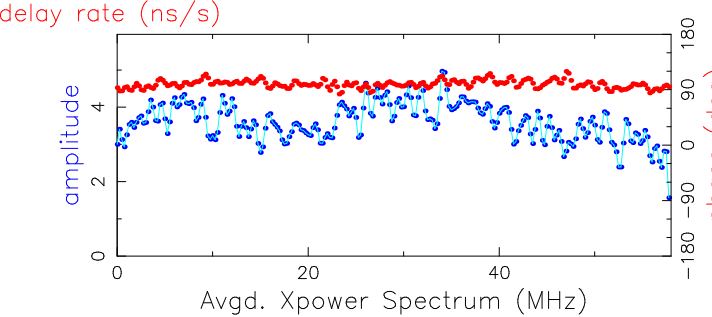
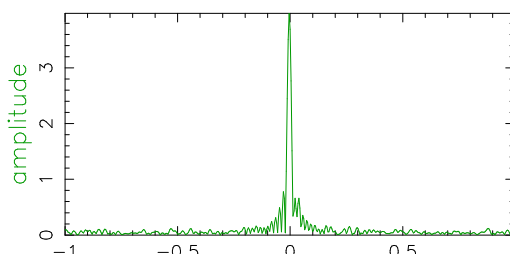


Fringe quality 5

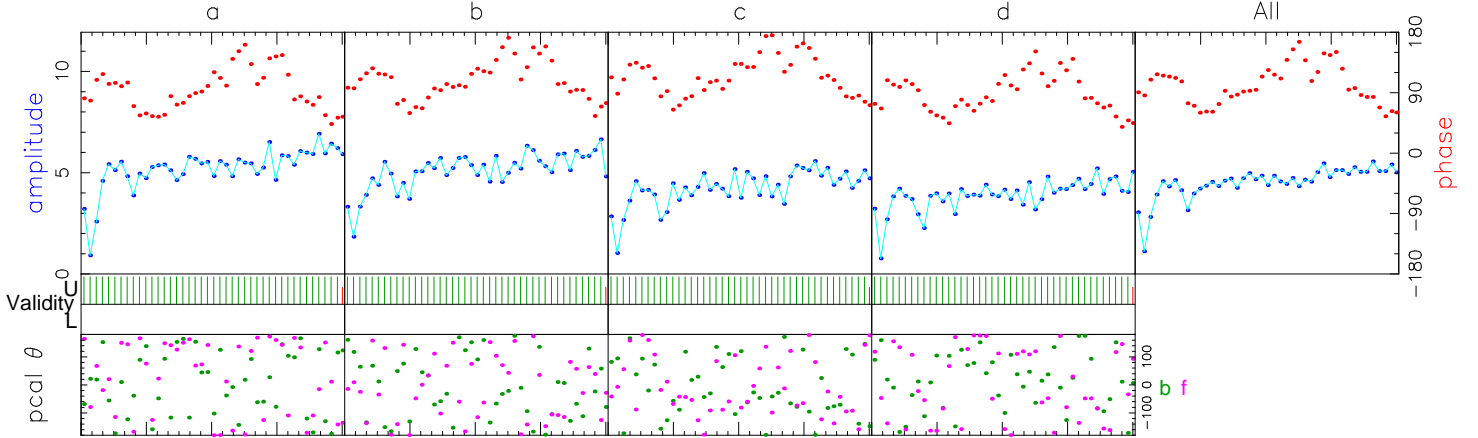
SNR 113.4
Int time 239.541
Amp 3.979
Phase 101.6
PFD 0.0e+00
Delays (us)
SBD -0.003761
MBD -0.003998
Fringe rate (Hz) 0.001050
Ion TEC 0.000
Ref freq (MHz) 86140.000
AP (sec) 0.512
Exp. ma008
Exper # 16383
Yr:day 2017:094
Start 084200.00
Stop 084600.13
FRT 084400.00
Corr/FF/build
2017:220:143927
2017:244:184407
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"



singleband delay (μs)

Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec

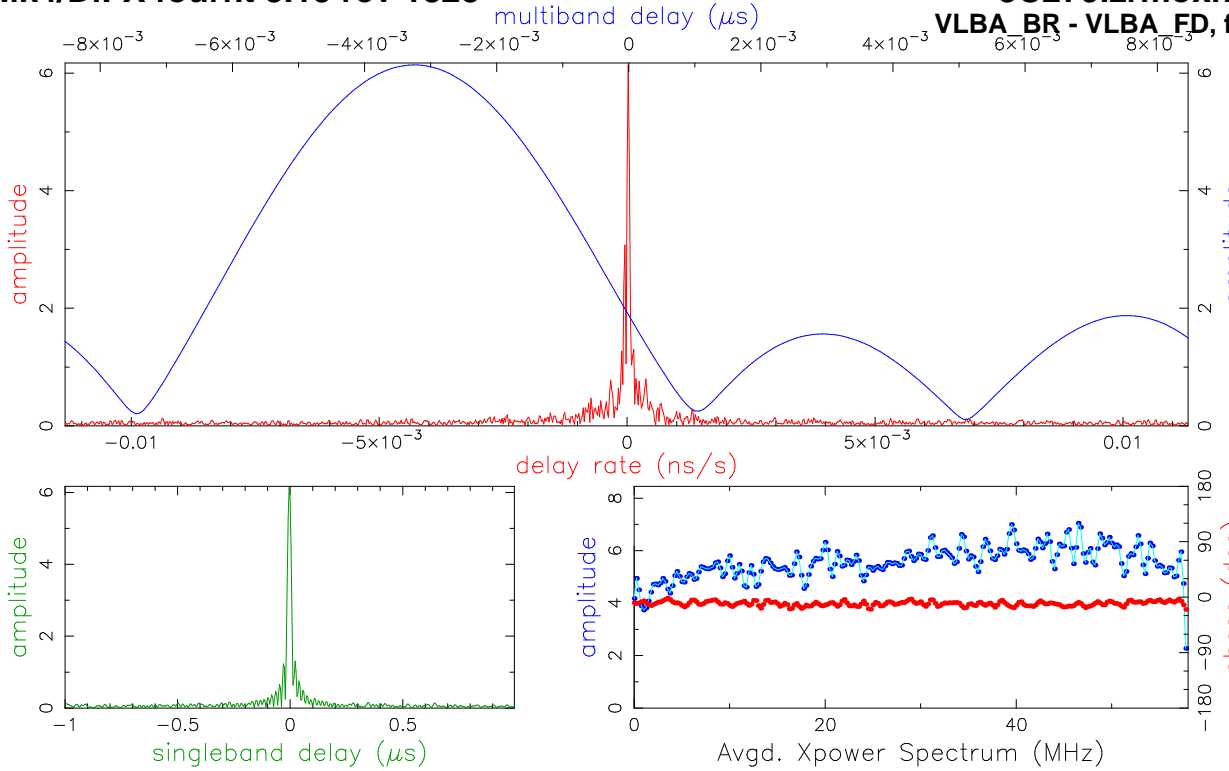


	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
U/L	469/0	469/0	469/0	469/0	Ampl.	4.0
b	3890	296	1703	3109	Sbd box	232.1
f	3890	296	1703	3109	APs used	
b:f	0:0	0:0	0:0	0:0	PC freqs	
b:f	0:0	0:0	0:0	0:0	PC phase	
b	1000	1000	1000	1000	Mani PC	
f	1000	1000	1000	1000	PC amp	
b	W00UL	W01UL	W02UL	W03UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	Tracks	

Group delay (usec)(sbd)	-3.00827074767E+03	Apriori delay (usec)	-3.00826674975E+03	Resid mbdelay (usec)	-3.99791E-03	+/-	2.1E-05
Sband delay (usec)	-3.00827051031E+03	Apriori clock (usec)	-3.6178808E+00	Resid sbdelay (usec)	-3.76055E-03	+/-	8.4E-05
Phase delay (usec)	-3.00826674648E+03	Apriori clockrate (us/s)	4.3343438E-07	Resid phdelay (usec)	3.27478E-06	+/-	3.3E-08
Delay rate (us/s)	3.97786620066E-01	Apriori rate (us/s)	3.97786607880E-01	Resid rate (us/s)	1.21858E-08	+/-	2.4E-10
Total phase (deg)	-195.0	Apriori accel (us/s/s)	1.32595382870E-05	Resid phase (deg)	101.6	+/-	1.0

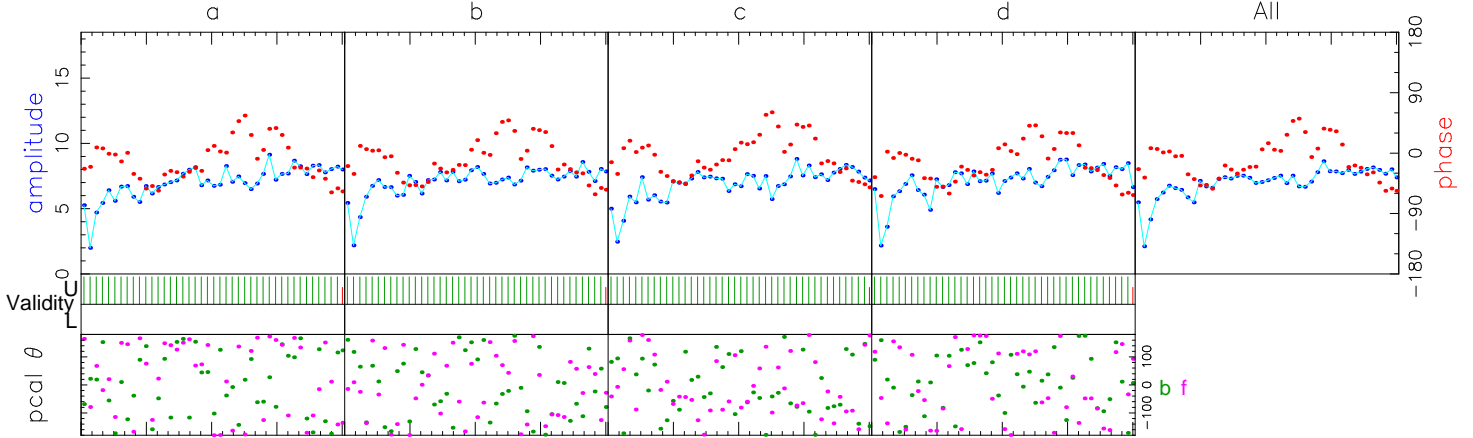
ph/seg (deg)	28.4	RMS	28.4	Theor.	3.3	Amplitude	3.979 +/- 0.035	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5				
amp/seg (%)	23.9	Search (1024X16)	3.705	Interp.	0.000	Inc. seg. avg.	4.513	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000				
ph/frq (deg)	15.8	Inc. frq. avg.	4.044	Inc. frq. avg.	4.044	u,v (fr/asec)	-2280.087 1963.131	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.009 0.009		
amp/frq (%)	11.7	u,v (fr/asec)	-2280.087 1963.131	Sample rate (MSamp/s):	116	Data rate (Mb/s):	928	Sample rate (MSamp/s):	116	nlags:	232	t_cohere	infinite	dr window (ns/s)	-0.011 0.011

b: az 191.5 el 35.4 pa 7.7 f: az 217.7 el 46.3 pa 32.4 simultaneous interpolator
Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/bf..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/bf.W.5.zrmoxn



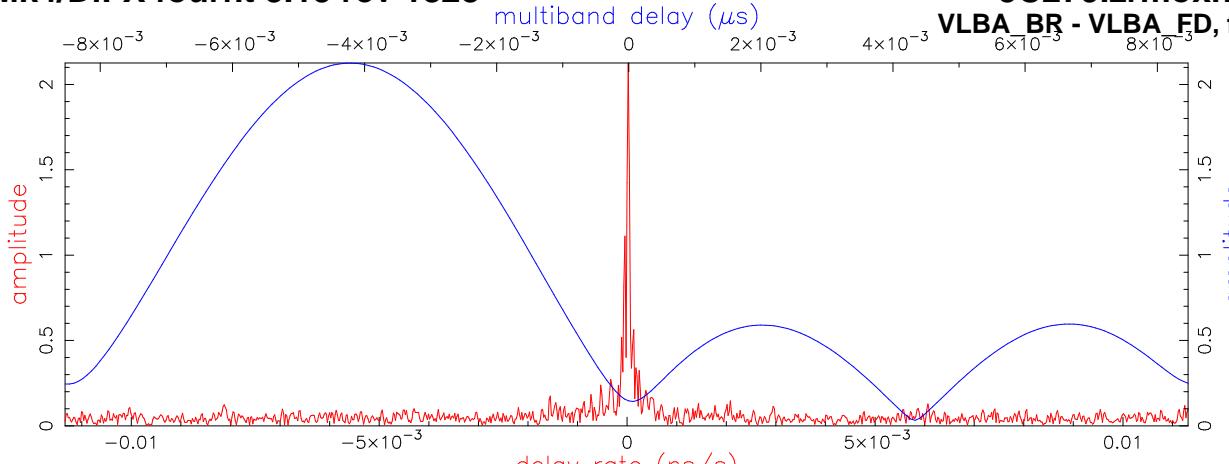
Fringe quality 6
 SNR 175.8
 Int time 239.541
 Amp 6.172
 Phase -10.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.003290
 MBD -0.003239
 Fringe rate (Hz) 0.001088
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. ma008
 Exper # 16383
 Yr:day 2017:094
 Start 084200.00
 Stop 084600.13
 FRT 084400.00
 Corr/FF/build
 2017:220:143927
 2017:244:184408
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec

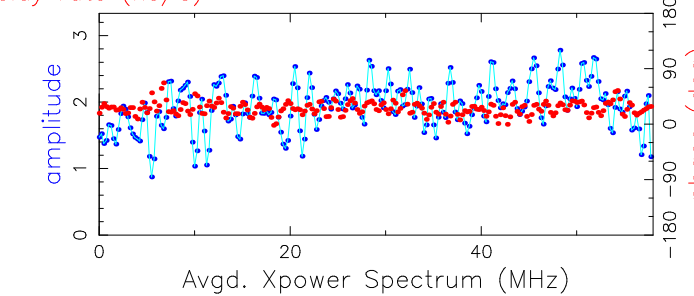
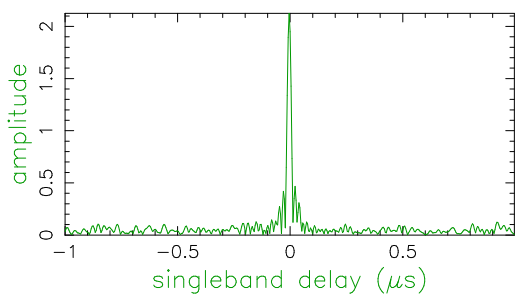


	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
	-12.3	-10.7	-4.6	-14.9	Phase	-10.7
	6.1	6.2	6.0	6.3	Ampl.	6.2
	232.4	232.2	232.4	232.0	Sbd box	232.2
U/L	469/0	469/0	469/0	469/0	APs used	
b	3890	296	1703	3109	PC freqs	
f	3890	296	1703	3109	PC freqs	
b:f	0:0	0:0	0:0	0:0	PC phase	
b:f	0:0	0:0	0:0	0:0	Manl PC	
b	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000		
b	W00UR	W01UR	W02UR	W03UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	Tracks	
					Chan ids	
					Tracks	
Group delay (usec)(sbd)	-3.00826998868E+03	Apriori delay (usec)	-3.00826674975E+03	Resid mbdelay (usec)	-3.23892E-03	+/- 1.4E-05
Sband delay (usec)	-3.00827004024E+03	Apriori clock (usec)	-3.6178808E+00	Resid sbdelay (usec)	-3.29048E-03	+/- 5.4E-05
Phase delay (usec)	-3.00826675010E+03	Apriori clockrate (us/s)	4.3343438E-07	Resid phdelay (usec)	-3.43739E-07	+/- 2.1E-08
Delay rate (us/s)	3.97786620508E-01	Apriori rate (us/s)	3.97786607880E-01	Resid rate (us/s)	1.26279E-08	+/- 1.5E-10
Total phase (deg)	-307.2	Apriori accel (us/s/s)	1.32595382870E-05	Resid phase (deg)	-10.7	+/- 0.7

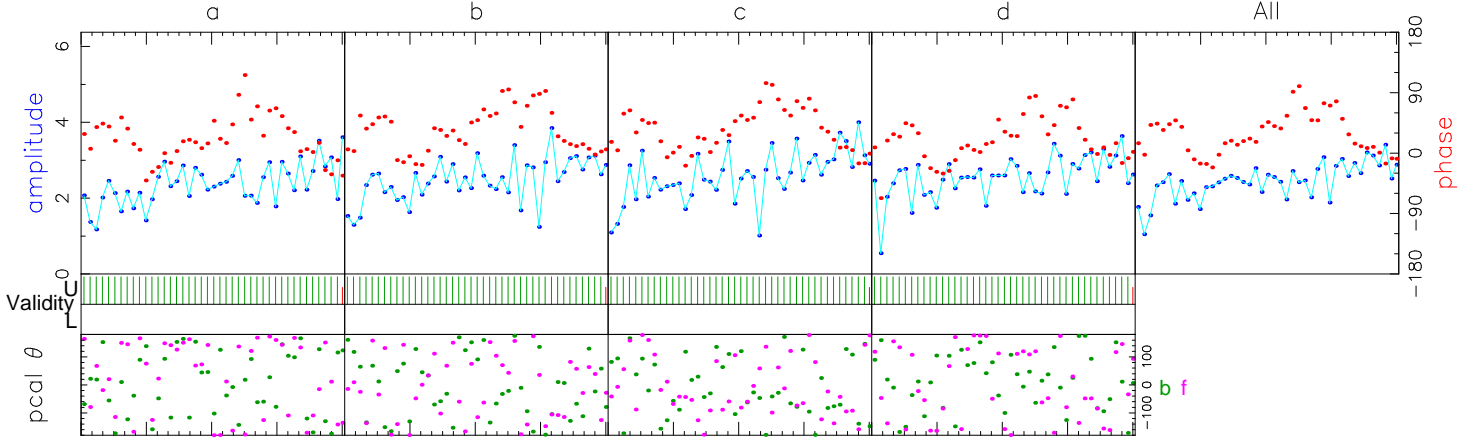
RMS Theor. Amplitude 6.172 +/- 0.035
 ph/seg (deg) 28.8 2.1 Search (1024X16) 5.786 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 22.8 3.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 5.3 0.7 Inc. seg. avg. 7.001 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.009 0.009
 amp/frq (%) 1.5 1.1 Inc. frq. avg. 6.151 Sample rate(MSamp/s): 116 Data rate(Mb/s): 928 nlags: 232 t_cohere infinite dr window (ns/s) -0.011 0.011
 b: az 191.5 el 35.4 pa 7.7 f: az 217.7 el 46.3 pa 32.4 u,v (fr/asec) -2280.087 1963.131 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/bf..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/bf.W.6.zrmoxn



Fringe quality 8
 SNR 60.6
 Int time 239.541
 Amp 2.126
 Phase 27.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.004012
 MBD -0.004216
 Fringe rate (Hz) 0.001035
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. ma008
 Exper # 16383
 Yr:day 2017:094
 Start 084200.00
 Stop 084600.13
 FRT 084400.00
 Corr/FF/build
 2017:220:143927
 2017:244:184409
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"



Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec

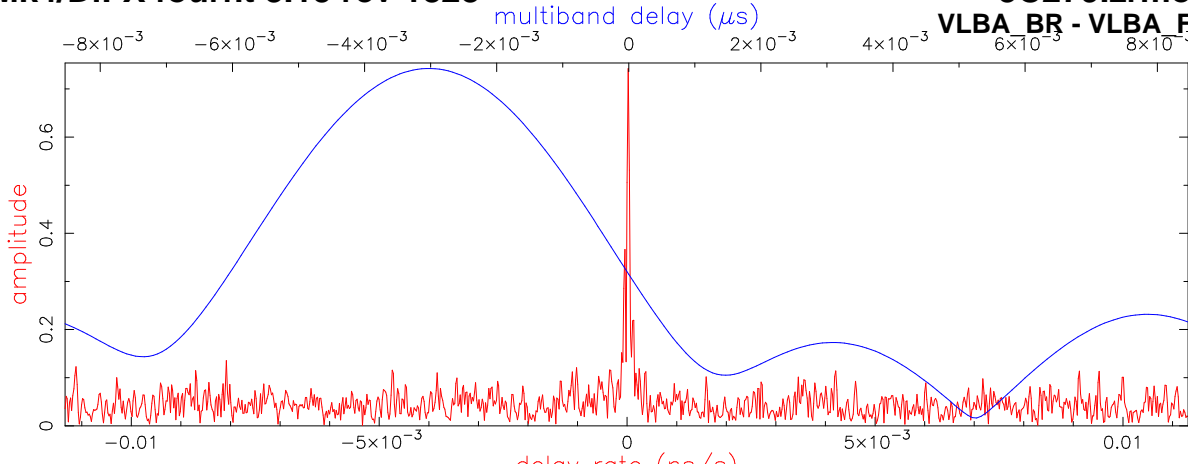


	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
U/L	469/0	469/0	469/0	469/0	469/0	
b	3890	296	1703	3109	3109	
f	3890	296	1703	3109	3109	
b:f	0:0	0:0	0:0	0:0	0:0	
b	1000	1000	1000	1000	1000	
f	1000	1000	1000	1000	1000	
b	W00UL	W01UL	W02UL	W03UL	W03UL	
f	W00UR	W01UR	W02UR	W03UR	W03UR	

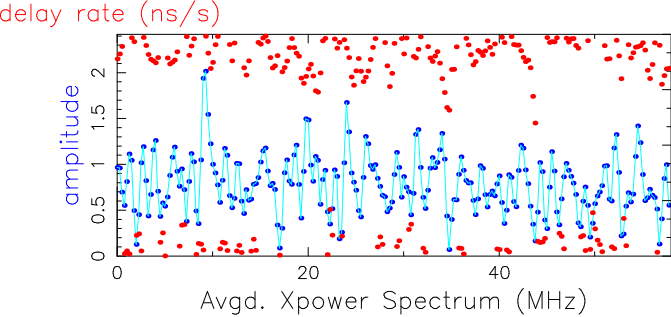
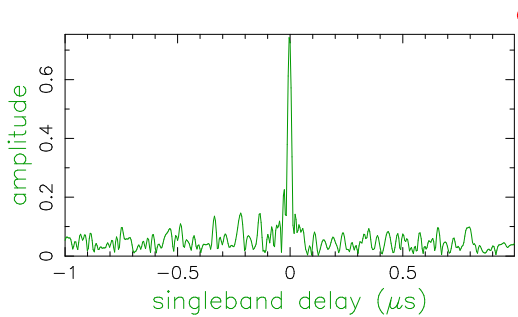
Group delay (usec)(sbd)	-3.00827096557E+03	Apriori delay (usec)	-3.00826674975E+03	Resid mbdelay (usec)	-4.21582E-03	+/-	4.0E-05
Sband delay (usec)	-3.00827076217E+03	Apriori clock (usec)	-3.6178808E+00	Resid sbdelay (usec)	-4.01241E-03	+/-	1.6E-04
Phase delay (usec)	-3.00826674886E+03	Apriori clockrate (us/s)	4.3343438E-07	Resid phdelay (usec)	8.91669E-07	+/-	6.1E-08
Delay rate (us/s)	3.97786619897E-01	Apriori rate (us/s)	3.97786607880E-01	Resid rate (us/s)	1.20171E-08	+/-	4.4E-10
Total phase (deg)	-268.9	Apriori accel (us/s/s)	1.32595382870E-05	Resid phase (deg)	27.7	+/-	1.9

ph/seg (deg)	30.0	Theor.	6.2	Amplitude	2.126 +/- 0.035	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	26.5	Search (1024X16)	1.981	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	10.3	Interp.	0.000	Inc. seg. avg.	2.430	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	3.9	Inc. frq. avg.	2.141	Inc. frq. avg.	2.141	Sample rate (MSamp/s):	116	mb window (us)	-0.009 0.009

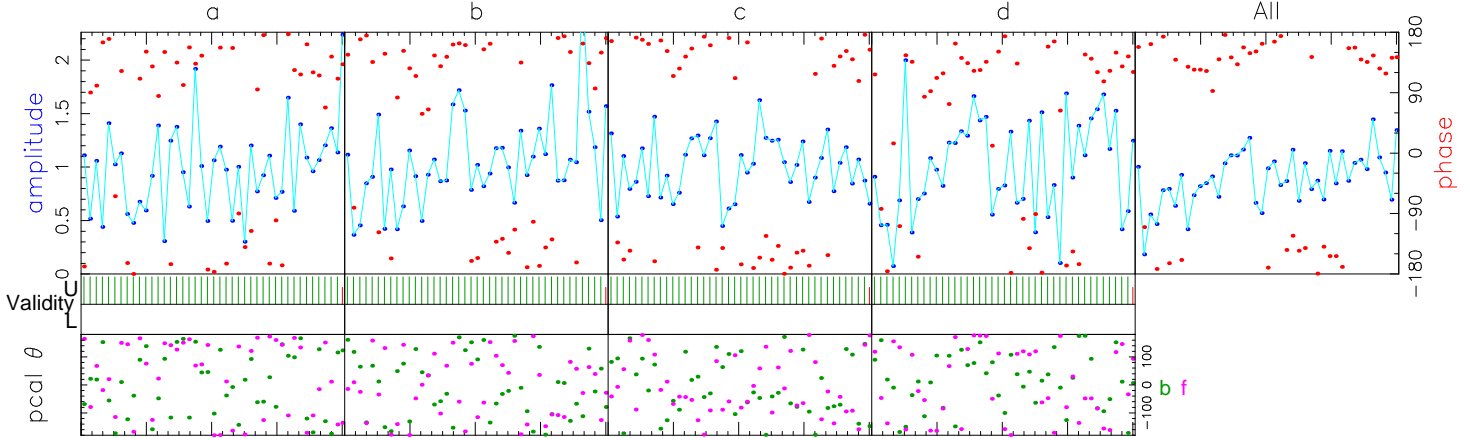
b: az 191.5 el 35.4 pa 7.7 f: az 217.7 el 46.3 pa 32.4 u,v (fr/asec) -2280.087 1963.131 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/bf..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/bf.W.7.zrmoxn



Fringe quality 8
SNR 21.5
Int time 239.541
Amp 0.754
Phase 162.8
PFD 0.0e+00
Delays (us)
SBD -0.002640
MBD -0.003008
Fringe rate (Hz) 0.001054
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. ma008
Exper # 16383
Yr:day 2017:094
Start 084200.00
Stop 084600.13
FRT 084400.00
Corr/FF/build
2017:220:143927
2017:244:184410
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"



Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec

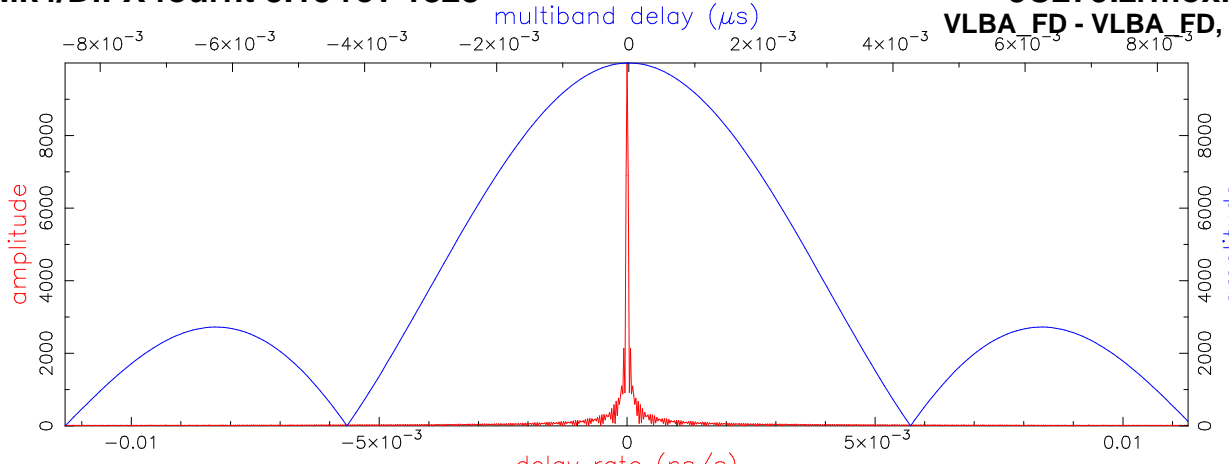


	86151.11	86209.70	86268.30	86326.89	86326.89	All
U/L	469/0	469/0	469/0	469/0	469/0	469/0
b	3890	296	1703	3109	3109	3109
f	3890	296	1703	3109	3109	3109
b:f	0:0	0:0	0:0	0:0	0:0	0:0
b	1000	1000	1000	1000	1000	1000
f	1000	1000	1000	1000	1000	1000
b	W00UR	W01UR	W02UR	W03UR	W03UR	W03UR
f	W00UL	W01UL	W02UL	W03UL	W03UL	W03UL

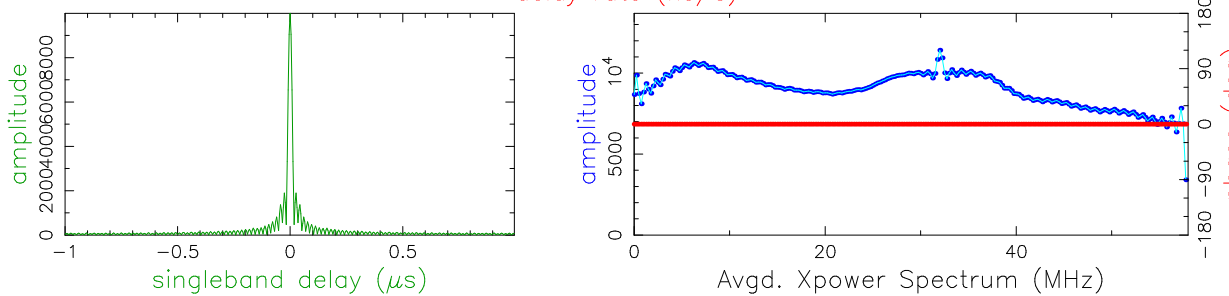
Group delay (usec)(sbd)	-3.00826975794E+03	Apriori delay (usec)	-3.00826674975E+03	Resid mbdelay (usec)	-3.00818E-03	+/-	1.1E-04
Sband delay (usec)	-3.00826938975E+03	Apriori clock (usec)	-3.6178808E+00	Resid sbdelay (usec)	-2.64000E-03	+/-	4.4E-04
Phase delay (usec)	-3.00826674450E+03	Apriori clockrate (us/s)	4.3343438E-07	Resid phdelay (usec)	5.25093E-06	+/-	1.7E-07
Delay rate (us/s)	3.97786620115E-01	Apriori rate (us/s)	3.97786607880E-01	Resid rate (us/s)	1.22354E-08	+/-	1.2E-09
Total phase (deg)	-133.7	Apriori accel (us/s/s)	1.32595382870E-05	Resid phase (deg)	162.8	+/-	5.3

ph/seg (deg)	35.6	Theor.	17.5	Amplitude	0.754 +/- 0.035	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	37.3	Search (1024X16)	0.692	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	18.6	Interp.	0.000	Inc. seg. avg.	0.849	Bits/sample:	2x2	SampCntNorm:	enabled	mb window (us)	-0.009 0.009
amp/frq (%)	8.8	Inc. frq. avg.	0.759	Inc. frq. avg.	0.759	Sample rate (MSamp/s):	116	dr window (ns/s)	-0.011 0.011		

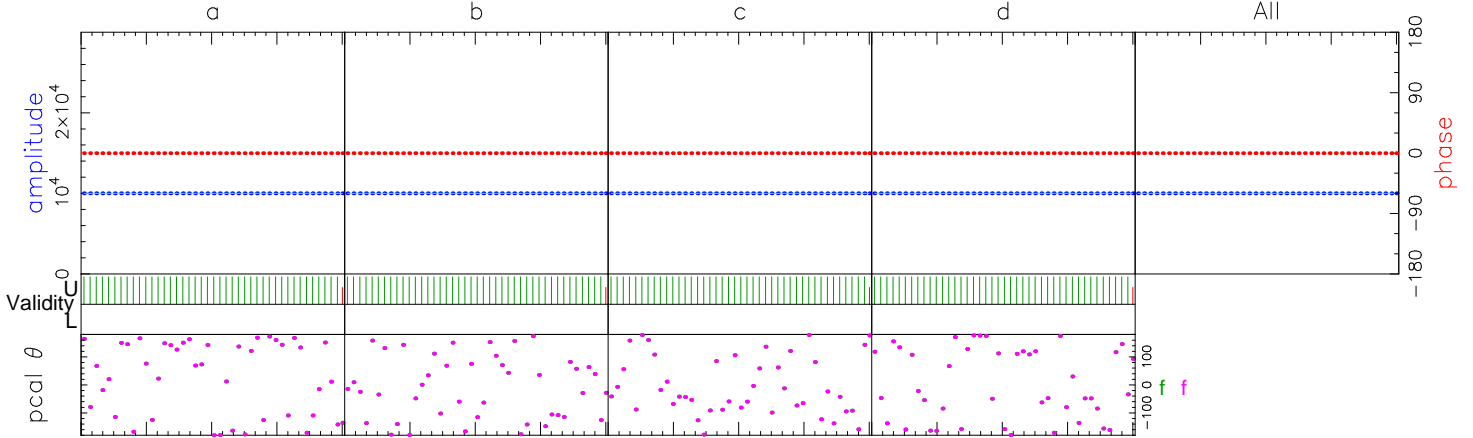
b: az 191.5 el 35.4 pa 7.7 f: az 217.7 el 46.3 pa 32.4 u,v (fr/asec) -2280.087 1963.131 simultaneous interpolator
Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/bf_.zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/bf.W.8.zrmoxn



Fringe quality 9
 SNR 285032.2
 Int time 239.765
 Amp 9999.874
 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. ma008
 Exper # 16383
 Yr:day 2017:094
 Start 084200.00
 Stop 084600.13
 FRT 084400.00
 Corr/FF/build
 2017:220:143927
 2017:244:184432
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"



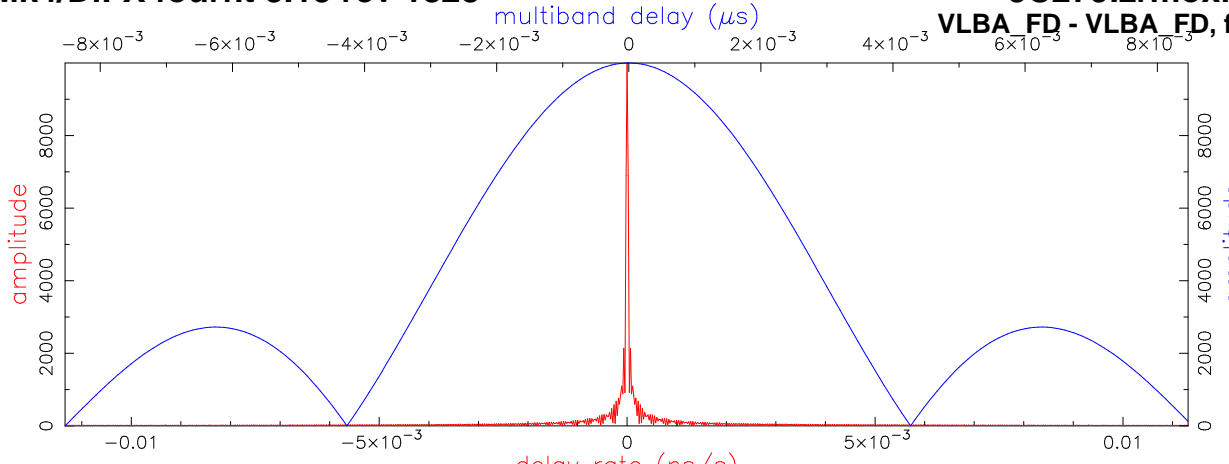
Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
U/L	469/0	469/0	469/0	469/0	Sbd box	233.0
f	3890	296	1703	3109	APs used	
f	3890	296	1703	3109	PC freqs	
f:f	0:0	0:0	0:0	0:0	PC phase	
f:f	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	8.5E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	3.3E-08
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.3E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	9.4E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

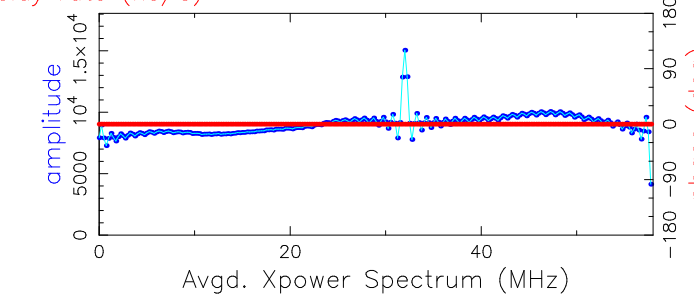
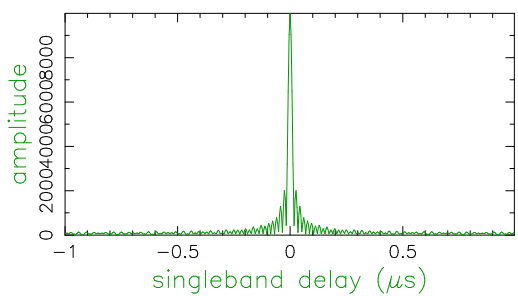
ph/seg (deg)	0.0	Theor.	Amplitude	9999.874 +/- 0.035	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	0.0	0.0	Search (1024X16)	9999.874	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.009	0.009	
amp/frq (%)	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 116		dr window (ns/s)	-0.011	0.011	
			Inc. frq. avg.	9999.874	Data rate(Mb/s): 928	nlags: 232	t_cohere infinite	ion window (TEC)	0.00	0.00



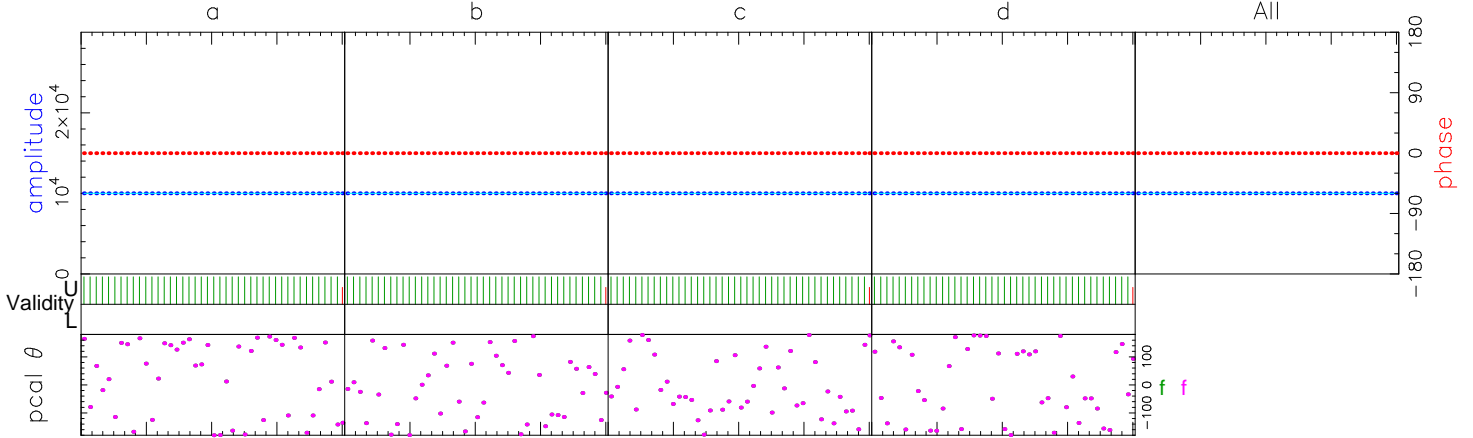
Fringe quality 9

SNR 285032.2
 Int time 239.765
 Amp 9999.874
 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. ma008
 Exper # 16383
 Yr:day 2017:094
 Start 084200.00
 Stop 084600.13
 FRT 084400.00
 Corr/FF/build
 2017:220:143927
 2017:244:184432
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"



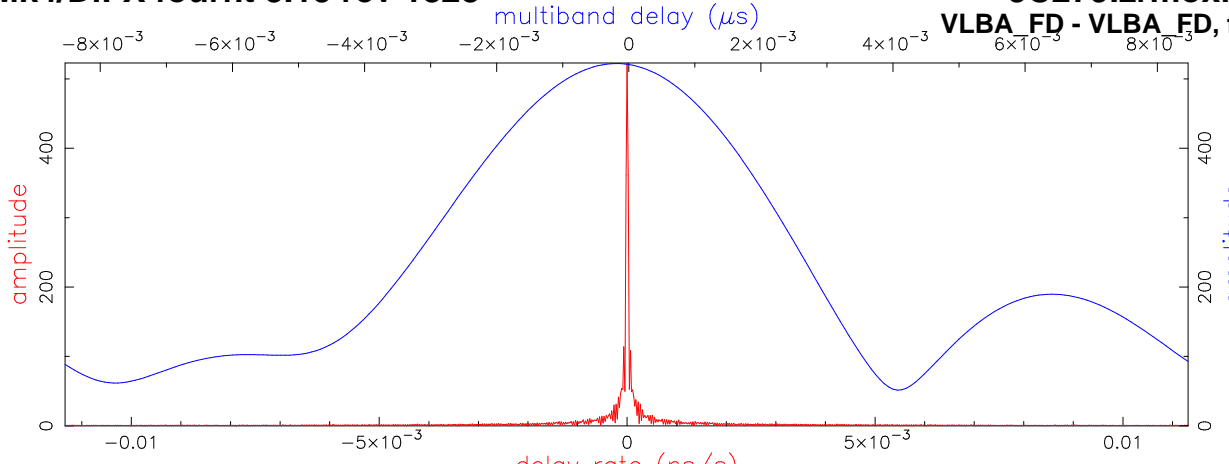
Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



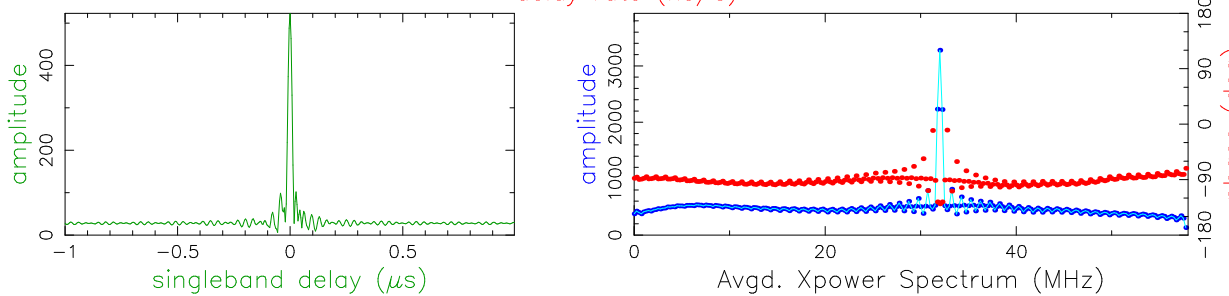
	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
U/L	469/0	469/0	469/0	469/0	Sbd box	233.0
f	3890	296	1703	3109	APs used	
f	3890	296	1703	3109	PC freqs	
f:f	0:0	0:0	0:0	0:0	PC phase	
f:f	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	Tracks	
f	W00UR	W01UR	W02UR	W03UR	Chan ids	
f	W00UR	W01UR	W02UR	W03UR	Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	8.5E-09
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	3.3E-08
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.3E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	9.4E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

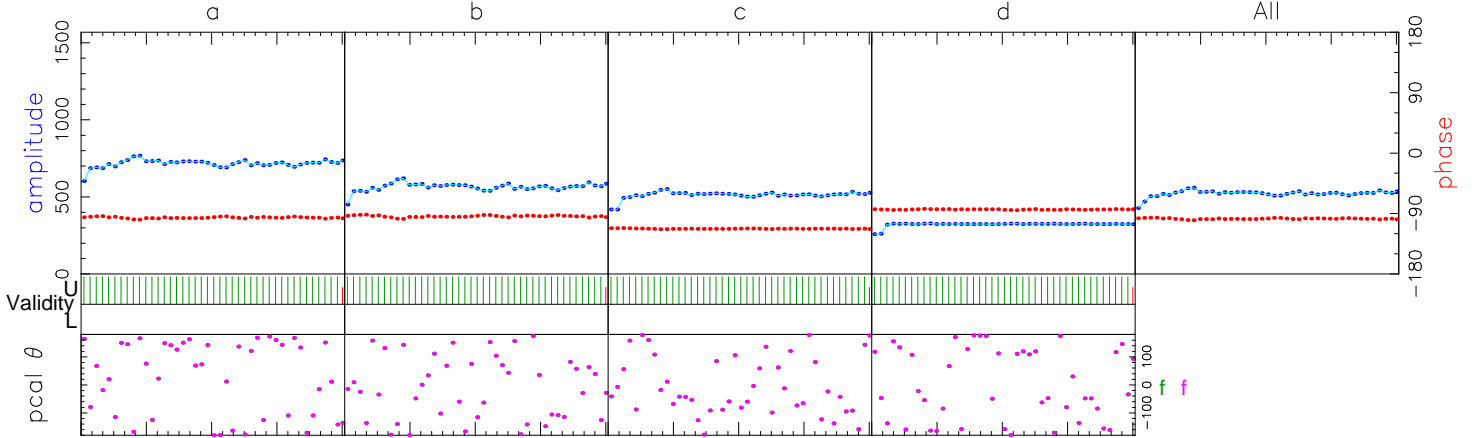
ph/seg (deg)	0.0	Theor.	Amplitude	9999.874 +/- 0.035	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	0.0	0.0	Search (1024X16)	9999.874	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.009	0.009
ph/frq (deg)	0.0	0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	0.0	0.0	Inc. seg. avg.	10000.000	Sample rate(MSamp/s): 116		ion window (TEC)	0.00	0.00
			Inc. frq. avg.	9999.874	Data rate(Mb/s): 928	nlags: 232	t_cohere	infinite	



Fringe quality 7
 SNR 14907.8
 Int time 239.765
 Amp 523.014
 Phase -97.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.000574
 MBD -0.000188
 Fringe rate (Hz)
 -0.000004
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. ma008
 Exper # 16383
 Yr:day 2017:094
 Start 084200.00
 Stop 084600.13
 FRT 084400.00
 Corr/FF/build
 2017:220:143927
 2017:244:184433
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

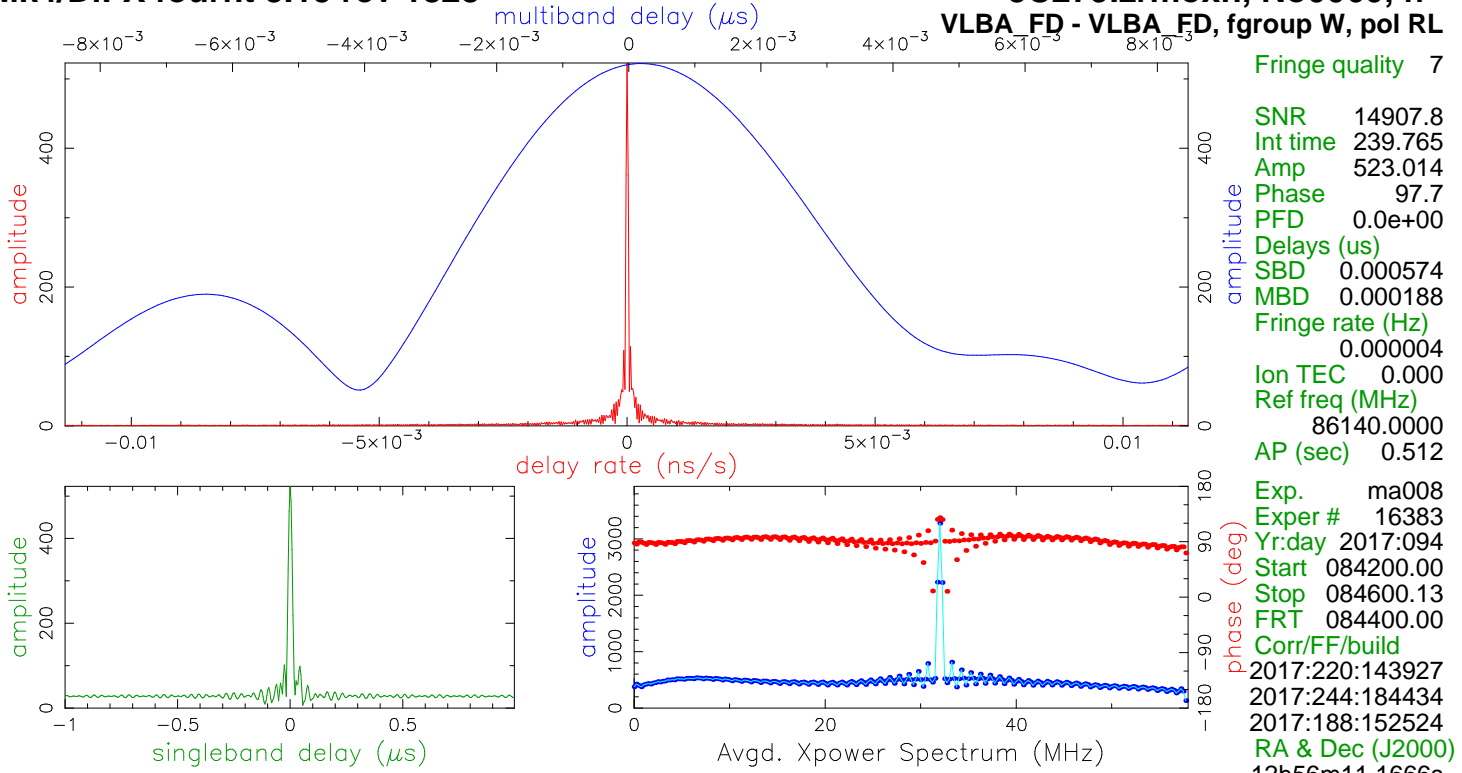


Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
-96.1	-94.1	-112.6	-83.9	Phase	-97.7
717.0	565.0	512.4	322.2	Ampl.	529.1
232.6	232.9	233.1	233.1	Sbd box	232.9
U/L 469/0	469/0	469/0	469/0	APs used	
f 3890	296	1703	3109	PC freqs	
f 3890	296	1703	3109	PC freqs	
f:f 0:0	0:0	0:0	0:0	PC phase	
f:f 0:0	0:0	0:0	0:0	Manl PC	
f 1000	1000	1000	1000	PC amp	
f 1000	1000	1000	1000		
f W00UL	W01UL	W02UL	W03UL	Chan ids	
f W00UR	W01UR	W02UR	W03UR	Tracks	
				Chan ids	
				Tracks	
Group delay (usec)(sbd)	-1.8807466667E-04	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	-1.88075E-04 +/- 1.6E-07
Sband delay (usec)	-5.73517241379E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-5.73517E-04 +/- 6.4E-07
Phase delay (usec)	-3.14915417935E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	-3.14915E-06 +/- 2.5E-10
Delay rate (us/s)	-4.25134571751E-11	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	-4.25135E-11 +/- 1.8E-12
Total phase (deg)	-97.7	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	-97.7 +/- 0.0

RMS 0.8 Theor. 0.0 Amplitude 523.014 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.8 0.0 Search (1024X16) 520.759 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 3.9 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.009 0.009
 ph/frq (deg) 14.6 0.0 Inc. seg. avg. 522.223 Sample rate(MSamp/s): 116 dr window (ns/s) -0.011 0.011
 amp/frq (%) 27.0 0.0 Inc. frq. avg. 529.125 Data rate(Mb/s): 928 nlags: 232 t_cohere infinite ion window (TEC) 0.00 0.00
 f: az 217.7 el 46.3 pa 32.4 f: az 217.7 el 46.3 pa 32.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/ff.zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/ff.W.35.zrmoxn



Fringe quality 7

SNR 14907.8

Int time 239.765

Amp 523.014

Phase 97.7

PFD 0.0e+00

Delays (us)

SBD 0.000574

MBD 0.000188

Fringe rate (Hz)

0.000004

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. ma008

Exper # 16383

Yr:day 2017:094

Start 084200.00

Stop 084600.13

FRT 084400.00

Corr/FF/build

2017:220:143927

2017:244:184434

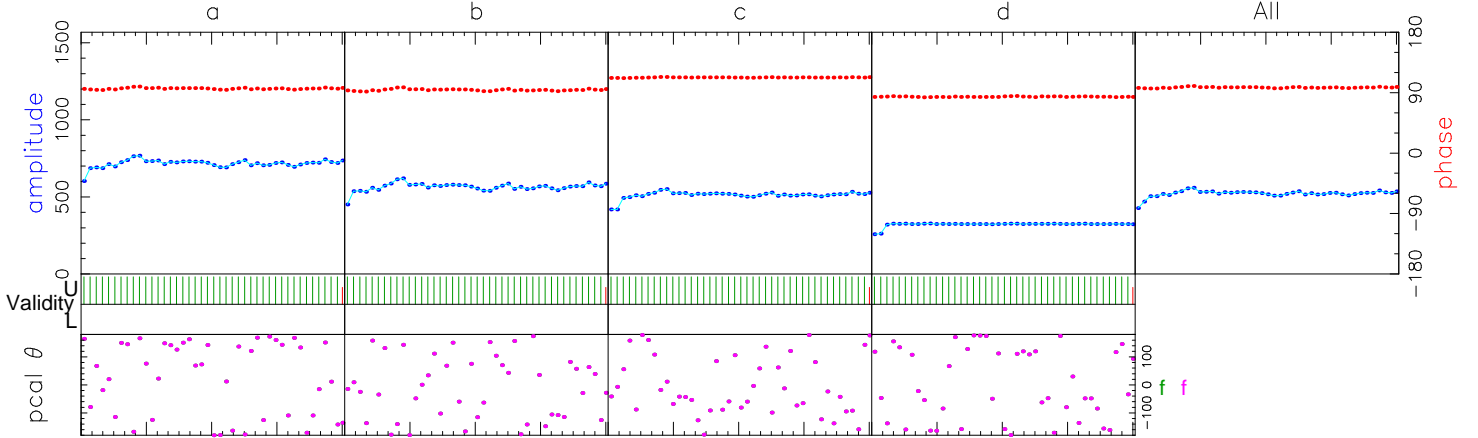
2017:188:152524

RA & Dec (J2000)

12h56m11.1666s

-5° 47' 21.525"

Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
	96.1	94.1	112.6	83.9	Phase	97.7
	717.0	565.0	512.4	322.2	Ampl.	529.1
	233.4	233.1	232.9	232.9	Sbd box	233.1
U/L	469/0	469/0	469/0	469/0	APs used	
f	3890	296	1703	3109	PC freqs	
f	3890	296	1703	3109	PC freqs	
f:f	0:0	0:0	0:0	0:0	PC phase	
f:f	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	Chan ids	
f	W00UL	W01UL	W02UL	W03UL	Tracks	
					Chan ids	
					Tracks	
Group delay (usec)(sbd)	1.8807466667E-04	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	1.88075E-04	+/- 1.6E-07
Sband delay (usec)	5.73517241379E-04	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	5.73517E-04	+/- 6.4E-07
Phase delay (usec)	3.14915417935E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	3.14915E-06	+/- 2.5E-10
Delay rate (us/s)	4.25134571751E-11	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	4.25135E-11	+/- 1.8E-12
Total phase (deg)		Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	97.7	+/- 0.0

RMS Theor. Amplitude 523.014 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 0.8 0.0 Search (1024X16) 520.759 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

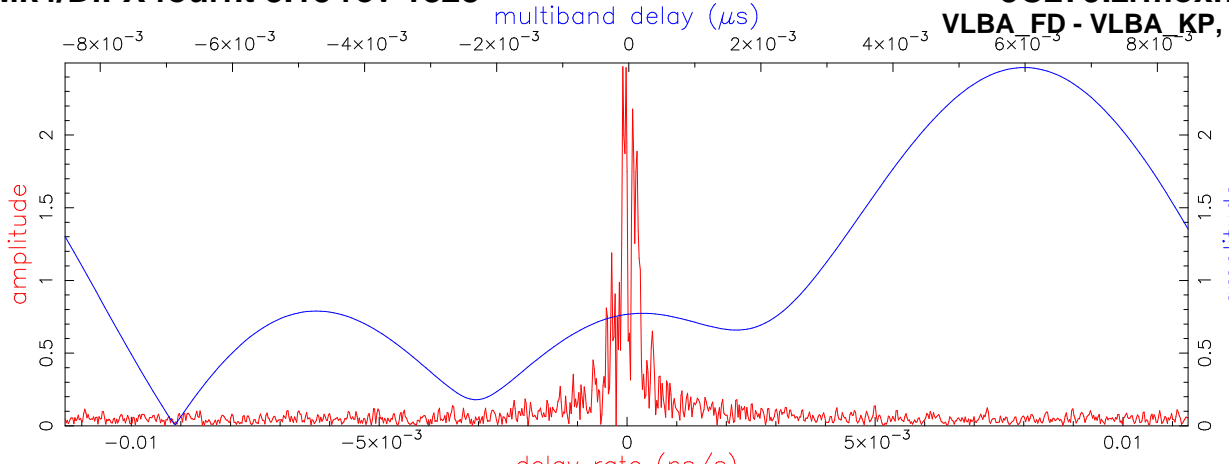
amp/seg (%) 3.9 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.009 0.009

ph/frq (deg) 14.6 0.0 Inc. seg. avg. 522.223 Sample rate(MSamp/s): 116 dr window (ns/s) -0.011 0.011

amp/frq (%) 27.0 0.0 Inc. frq. avg. 529.125 Data rate(Mb/s): 928 nlags: 232 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 217.7 el 46.3 pa 32.4 f: az 217.7 el 46.3 pa 32.4 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

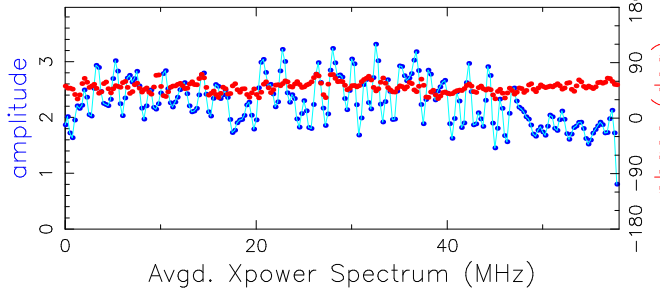
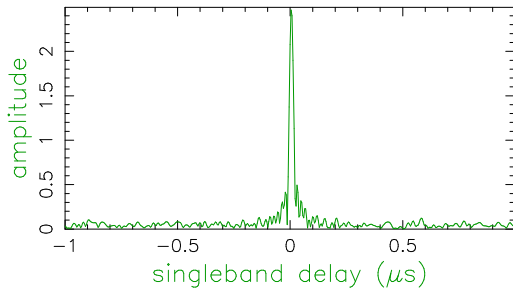
Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/ff..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/ff.V.36.zrmoxn



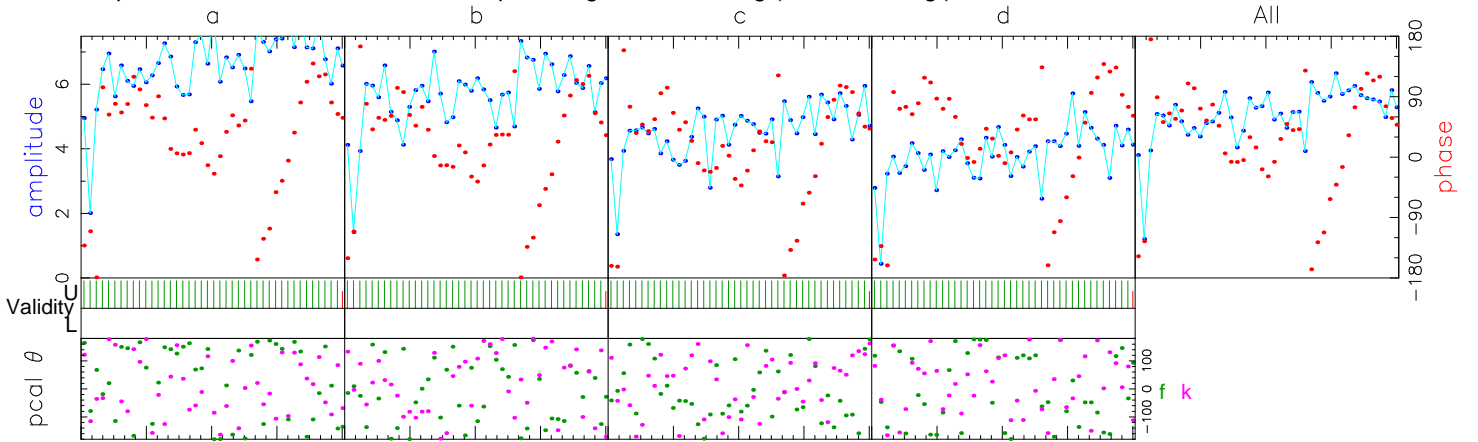
Fringe quality 4

SNR 71.1
Int time 239.599
Amp 2.496
Phase 48.0
PFD 0.0e+00
Delays (us)
SBD 0.005872
MBD 0.006020
Fringe rate (Hz)
-0.001879
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. ma008
Exper # 16383
Yr:day 2017:094
Start 084200.00
Stop 084600.13
FRT 084400.00
Corr/FF/build
2017:220:143927
2017:244:184435
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"



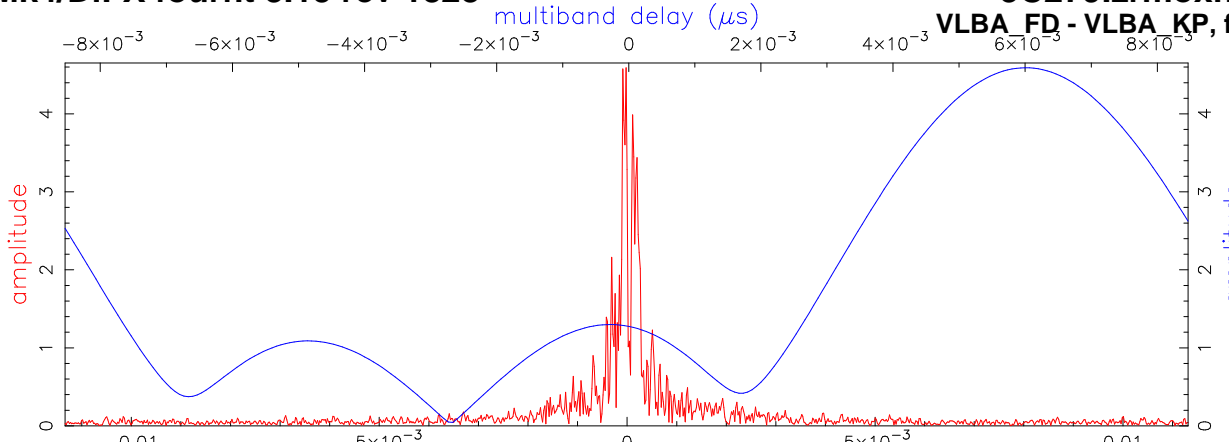
Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
U/L	469/0	469/0	469/0	469/0		234.4
f	3890	296	1703	3109	APs used	
k	3890	296	1703	3109	PC freqs	
f:k	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	ManI PC	
f	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	Tracks	

Group delay (usec)(sbd)	-6.21209759439E+02	Apriori delay (usec)	-6.21215779137E+02	Resid mbdelay (usec)	6.01970E-03	+/-	3.4E-05
Sband delay (usec)	-6.21209906861E+02	Apriori clock (usec)	2.1777518E+00	Resid sbdelay (usec)	5.87228E-03	+/-	1.3E-04
Phase delay (usec)	-6.21215777590E+02	Apriori clockrate (us/s)	-4.1878843E-07	Resid phdelay (usec)	1.54646E-06	+/-	5.2E-08
Delay rate (us/s)	-1.70707965352E-01	Apriori rate (us/s)	-1.70707943543E-01	Resid rate (us/s)	-2.18094E-08	+/-	3.7E-10
Total phase (deg)	-29.4	Apriori accel (us/s/s)	3.54274196521E-06	Resid phase (deg)	48.0	+/-	1.6

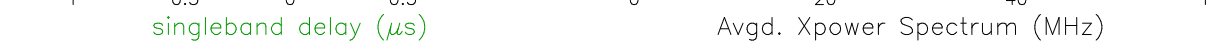
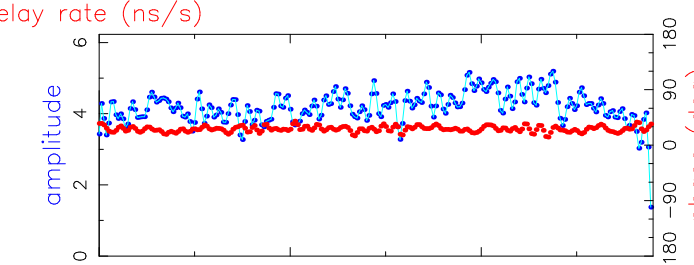
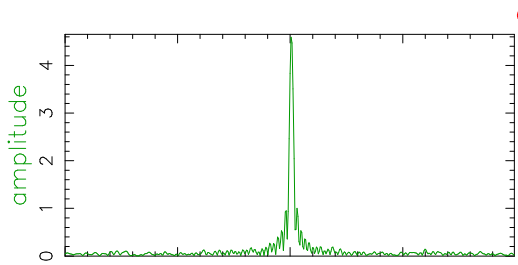
ph/seg (deg)	74.7	Theor.	5.3	Amplitude	2.496 +/- 0.035	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	107.8	Search (1024X16)	2.430	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	16.5	Interp.	0.000	Inc. seg. avg.	5.031	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	19.9	Inc. frq. avg.	2.512	Inc. frq. avg.	2.512	Sample rate (MSamp/s):	116	mb window (us)	-0.009 0.009
						Data rate (Mb/s):	928	dr window (ns/s)	-0.011 0.011
						lags:	232	ion window (TEC)	0.00 0.00



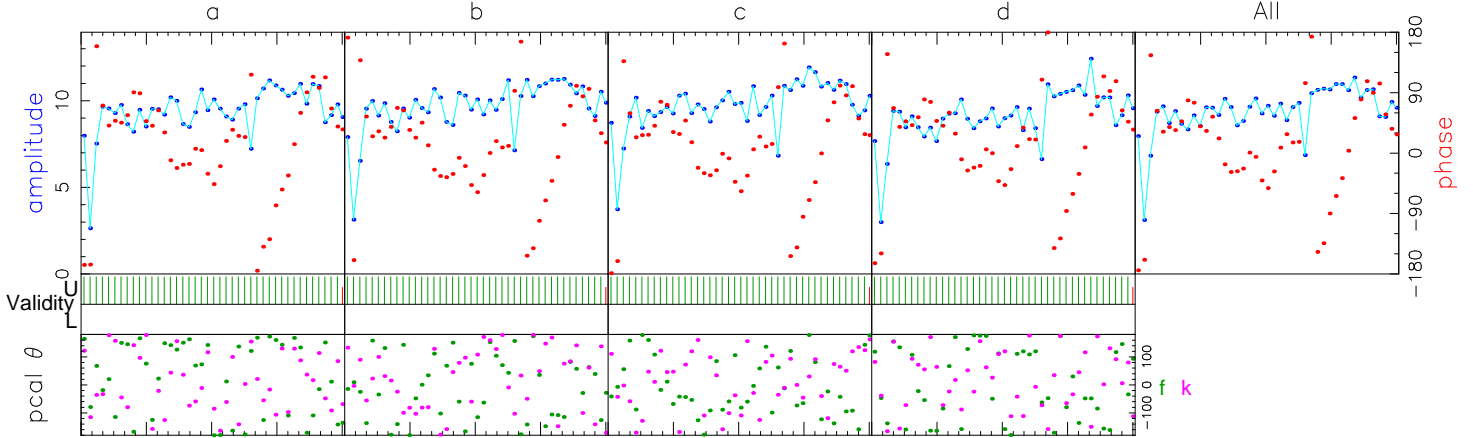
Fringe quality 5

SNR 132.6
 Int time 239.599
 Amp 4.653
 Phase 24.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.005883
 MBD 0.006029
 Fringe rate (Hz) -0.001944
 Ion TEC 0.000
 Ref freq (MHz) 86140.000
 AP (sec) 0.512

Exp. ma008
 Exper # 16383
 Yr:day 2017:094
 Start 084200.00
 Stop 084600.13
 FRT 084400.00
 Corr/FF/build
 2017:220:143927
 2017:244:184436
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"



Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



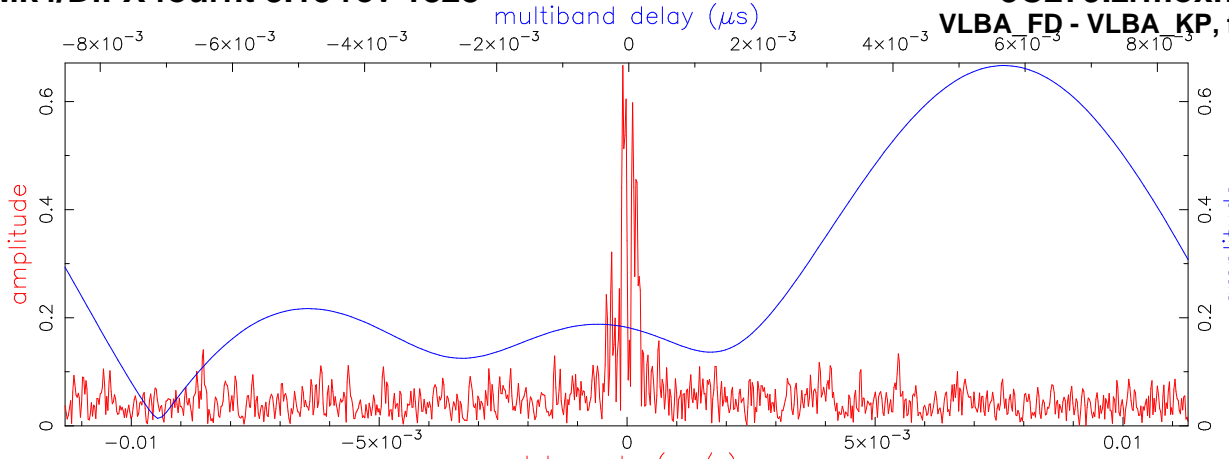
	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
U/L	469/0	469/0	469/0	469/0	469/0	234.4
f	3890	296	1703	3109	3109	4.4
k	3890	296	1703	3109	3109	4.6
f:k	0:0	0:0	0:0	0:0	0:0	234.4
f:k	0:0	0:0	0:0	0:0	0:0	24.7
f	1000	1000	1000	1000	1000	4.6
k	1000	1000	1000	1000	1000	4.6
f	W00UR	W01UR	W02UR	W03UR	W03UR	234.4
k	W00UR	W01UR	W02UR	W03UR	W03UR	234.4

Group delay (usec)(sbd)	-6.21209750565E+02	Apriori delay (usec)	-6.21215779137E+02	Resid mbdelay (usec)	6.02857E-03	+/-	1.8E-05
Sband delay (usec)	-6.21209895826E+02	Apriori clock (usec)	2.1777518E+00	Resid sbdelay (usec)	5.88331E-03	+/-	7.2E-05
Phase delay (usec)	-6.21215778340E+02	Apriori clockrate (us/s)	-4.1878843E-07	Resid phdelay (usec)	7.97080E-07	+/-	2.8E-08
Delay rate (us/s)	-1.70707966116E-01	Apriori rate (us/s)	-1.70707943543E-01	Resid rate (us/s)	-2.25732E-08	+/-	2.0E-10
Total phase (deg)	-52.6	Apriori accel (us/s/s)	3.54274196521E-06	Resid phase (deg)	24.7	+/-	0.9

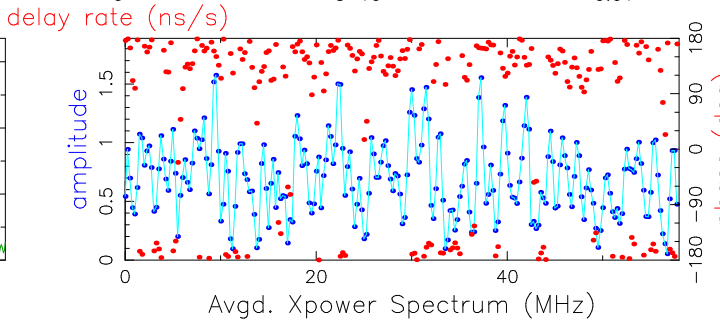
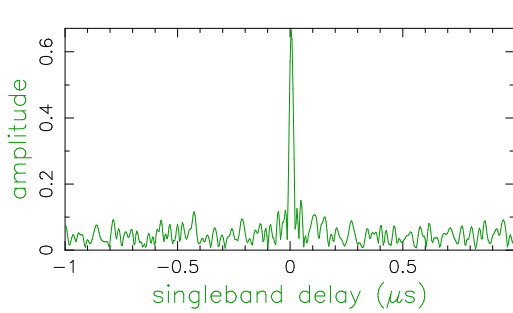
ph/seg (deg)	74.3	2.8	Amplitude	4.653 +/- 0.035	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	106.0	4.9	Search (1024X16)	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	10.0	0.9	Interp.	0.000	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	3.9	1.5	Inc. seg. avg.	9.377	Sample rate (MSamp/s):	116	mb window (us)	-0.009 0.009
			Inc. frq. avg.	4.626	Data rate (Mb/s):	928	dr window (ns/s)	-0.011 0.011

f: az 217.7 el 46.3 pa 32.4 k: az 206.9 el 48.7 pa 23.3 u,v (fr/asec) 985.118 -201.938 simultaneous interpolator

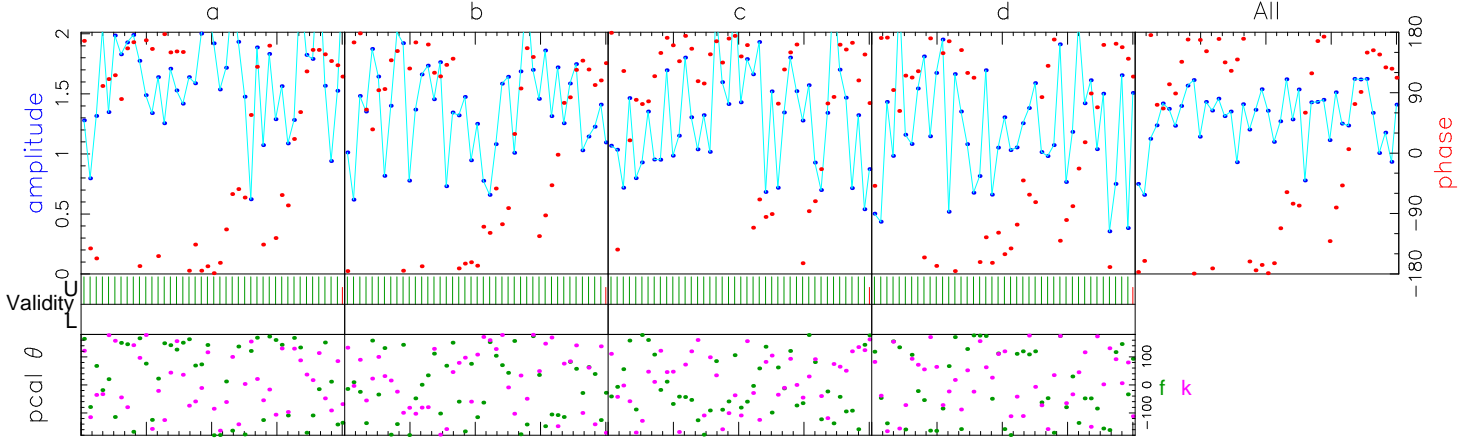
Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fk..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fk.W.38.zrmoxn



Fringe quality 9
 SNR 19.1
 Int time 239.599
 Amp 0.671
 Phase 158.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.005490
 MBD 0.005693
 Fringe rate (Hz)
 -0.007131
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. ma008
 Exper # 16383
 Yr:day 2017:094
 Start 084200.00
 Stop 084600.13
 FRT 084400.00
 Corr/FF/build
 2017:220:143927
 2017:244:184437
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"



Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec

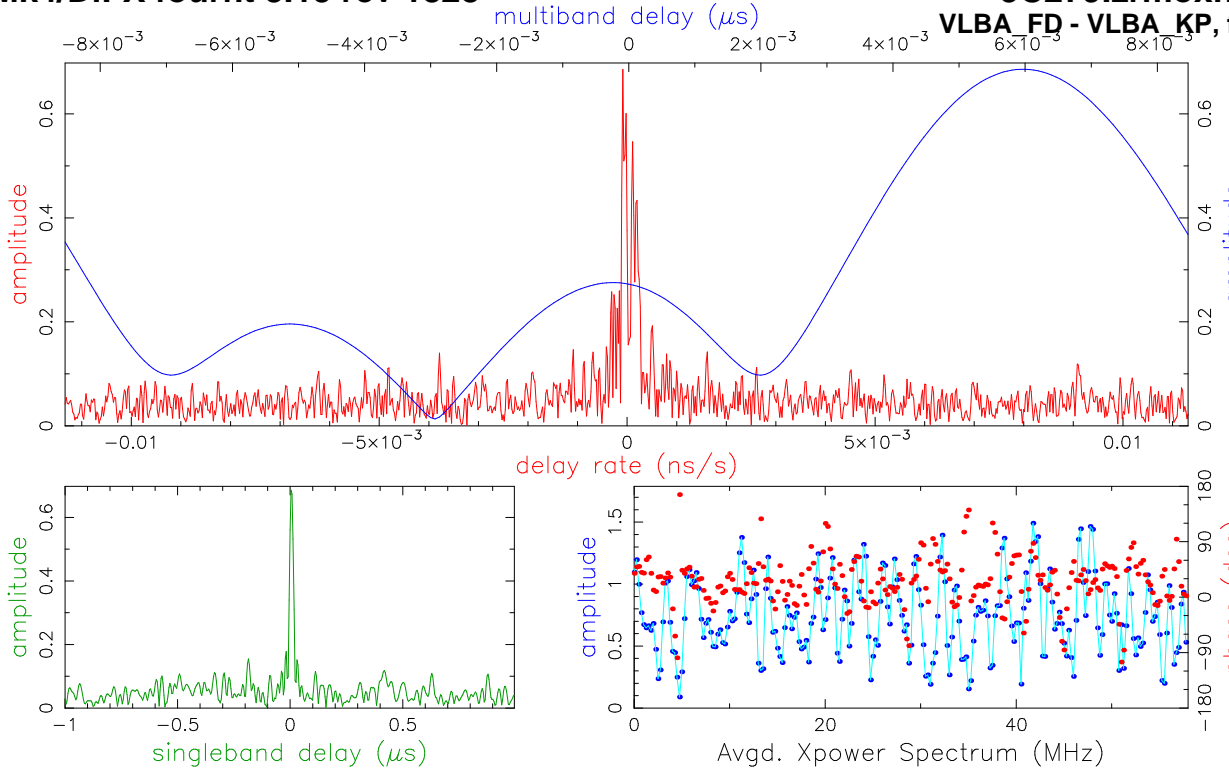


	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
U/L	469/0	469/0	469/0	469/0		
f	3890	296	1703	3109	APs used	
k	3890	296	1703	3109	PC freqs	
f:k	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	Chan ids	
k	W00UR	W01UR	W02UR	W03UR	Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	-6.21210085926E+02	Apriori delay (usec)	-6.21215779137E+02	Resid mbdelay (usec)	5.69321E-03	+/-	1.3E-04
Sband delay (usec)	-6.21210289482E+02	Apriori clock (usec)	2.1777518E+00	Resid sbdelay (usec)	5.48966E-03	+/-	5.0E-04
Phase delay (usec)	-6.21215774029E+02	Apriori clockrate (us/s)	-4.1878843E-07	Resid phdelay (usec)	5.10801E-06	+/-	1.9E-07
Delay rate (us/s)	-1.70708026331E-01	Apriori rate (us/s)	-1.70707943543E-01	Resid rate (us/s)	-8.27879E-08	+/-	1.4E-09
Total phase (deg)	81.1	Apriori accel (us/s/s)	3.54274196521E-06	Resid phase (deg)	158.4	+/-	6.0

ph/seg (deg)	66.8	Theor.	19.6	Amplitude	0.671 +/- 0.035	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	100.5	Search (1024X16)	0.645	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	13.9	Interp.	0.000	Inc. seg. avg.	1.230	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	23.2	Inc. frq. avg.	0.672	Inc. frq. avg.	0.672	Sample rate (MSamp/s):	116	mb window (us)	-0.009 0.009
						Data rate (Mb/s):	928	dr window (ns/s)	-0.011 0.011
						nlags:	232	ion window (TEC)	0.00 0.00

f: az 217.7 el 46.3 pa 32.4 k: az 206.9 el 48.7 pa 23.3 u,v (fr/asec) 985.118 -201.938 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fk..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fk.W.39.zrmoxn

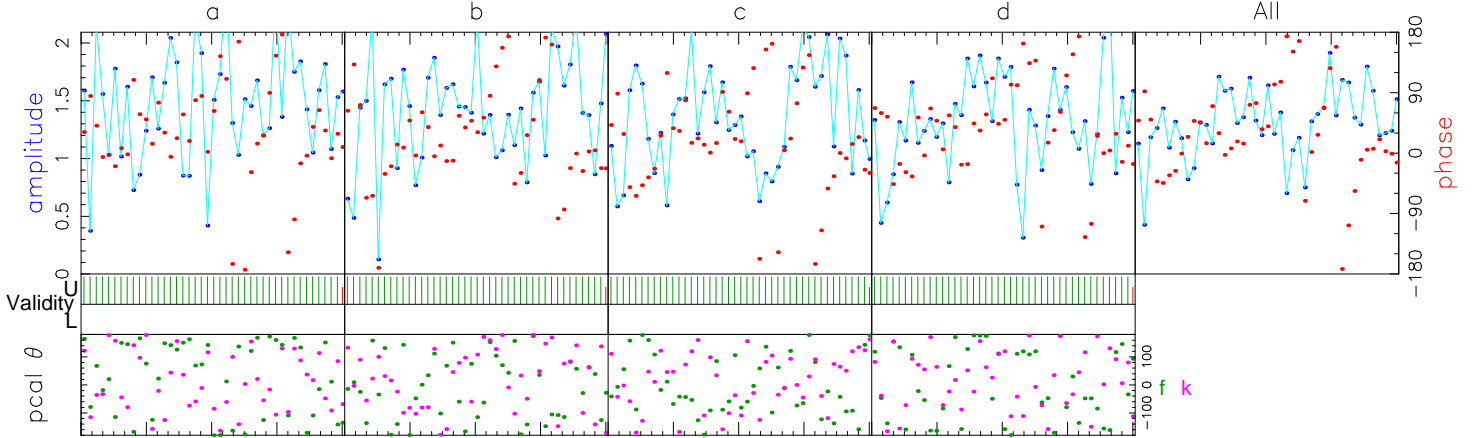


Fringe quality 9

SNR 19.9
 Int time 239.599
 Amp 0.698
 Phase 26.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.006094
 MBD 0.006011
 Fringe rate (Hz)
 -0.007223
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512

Exp. ma008
 Exper # 16383
 Yr:day 2017:094
 Start 084200.00
 Stop 084600.13
 FRT 084400.00
 Corr/FF/build
 2017:220:143927
 2017:244:184438
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



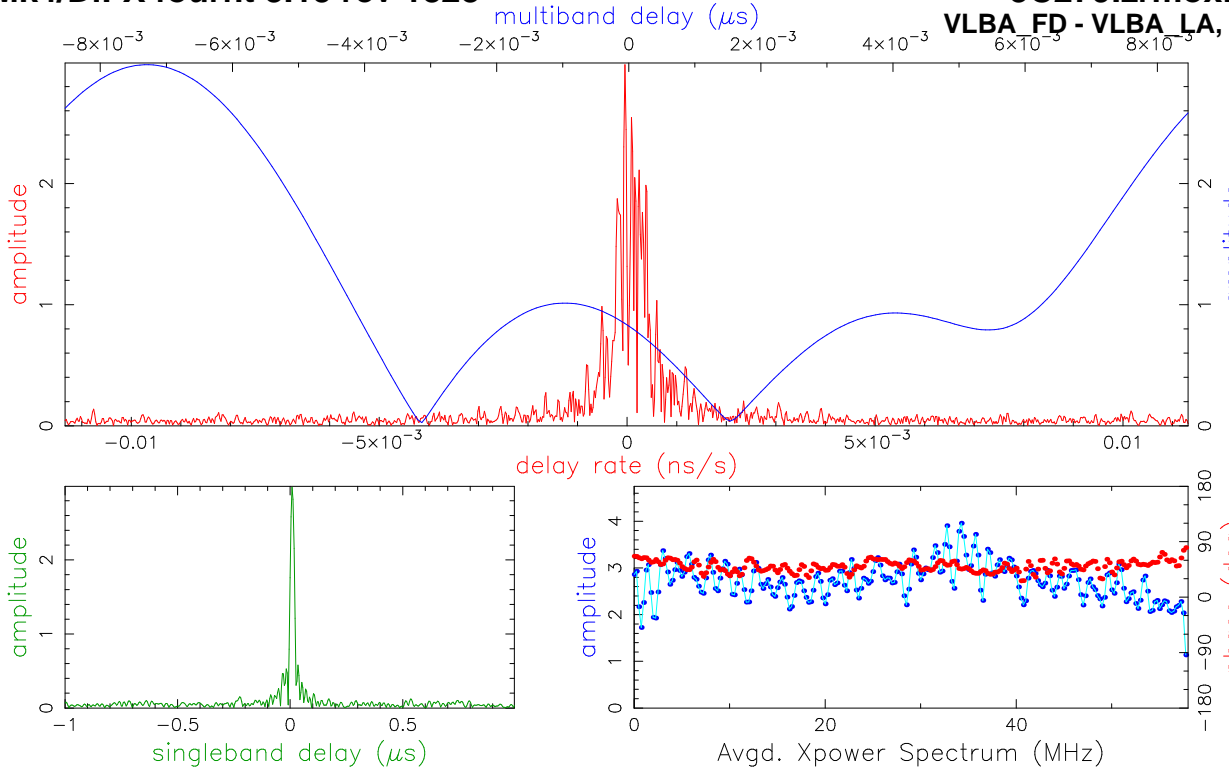
	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
U/L	469/0	469/0	469/0	469/0	APs used	234.4
f	3890	296	1703	3109	PC freqs	
k	3890	296	1703	3109	PC freqs	
f:k	0:0	0:0	0:0	0:0	PC phase	
f:k	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	Chan ids	
k	W00UL	W01UL	W02UL	W03UL	Tracks	

Group delay (usec)(sbd)	-6.21209768145E+02	Apriori delay (usec)	-6.21215779137E+02	Resid mbdelay (usec)	6.01099E-03	+/-	1.2E-04
Sband delay (usec)	-6.21209685068E+02	Apriori clock (usec)	2.1777518E+00	Resid sbdelay (usec)	6.09407E-03	+/-	4.8E-04
Phase delay (usec)	-6.21215778289E+02	Apriori clockrate (us/s)	-4.1878843E-07	Resid phdelay (usec)	8.47605E-07	+/-	1.9E-07
Delay rate (us/s)	-1.70708027395E-01	Apriori rate (us/s)	-1.70707943543E-01	Resid rate (us/s)	-8.38521E-08	+/-	1.3E-09
Total phase (deg)	-51.1	Apriori accel (us/s/s)	3.54274196521E-06	Resid phase (deg)	26.3	+/-	5.8

ph/seg (deg)	67.6	Theor.	18.9	Amplitude	0.698 +/- 0.035	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	96.8	Search (1024X16)	0.665	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	17.6	Interp.	0.000	Inc. seg. avg.	1.238	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	7.7	Inc. frq. avg.	0.699	Inc. frq. avg.	0.699	Sample rate (MSamp/s):	116	mb window (us)	-0.009 0.009
						Data rate (Mb/s):	928	dr window (ns/s)	-0.011 0.011
						nlags:	232	ion window (TEC)	0.00 0.00

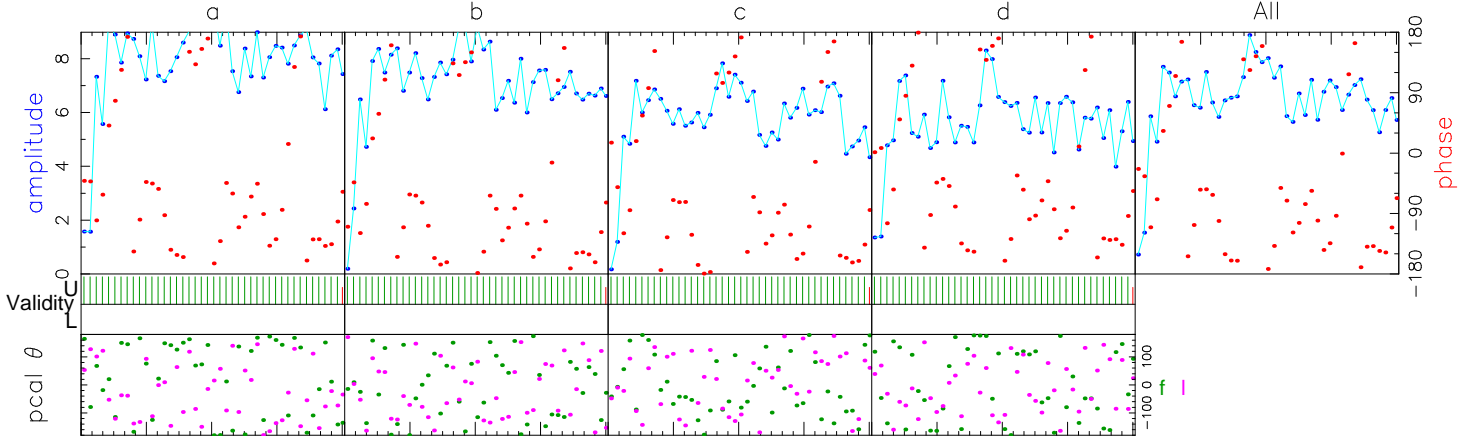
f: az 217.7 el 46.3 pa 32.4 k: az 206.9 el 48.7 pa 23.3 u,v (fr/asec) 985.118 -201.938 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fk..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fk.W.40.zrmoxn



Fringe quality 4
 SNR 85.3
 Int time 239.545
 Amp 2.995
 Phase -202.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.009567
 MBD -0.007284
 Fringe rate (Hz)
 -0.003026
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. ma008
 Exper # 16383
 Yr:day 2017:094
 Start 084200.00
 Stop 084600.13
 FRT 084400.00
 Corr/FF/build
 2017:220:143927
 2017:244:184439
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

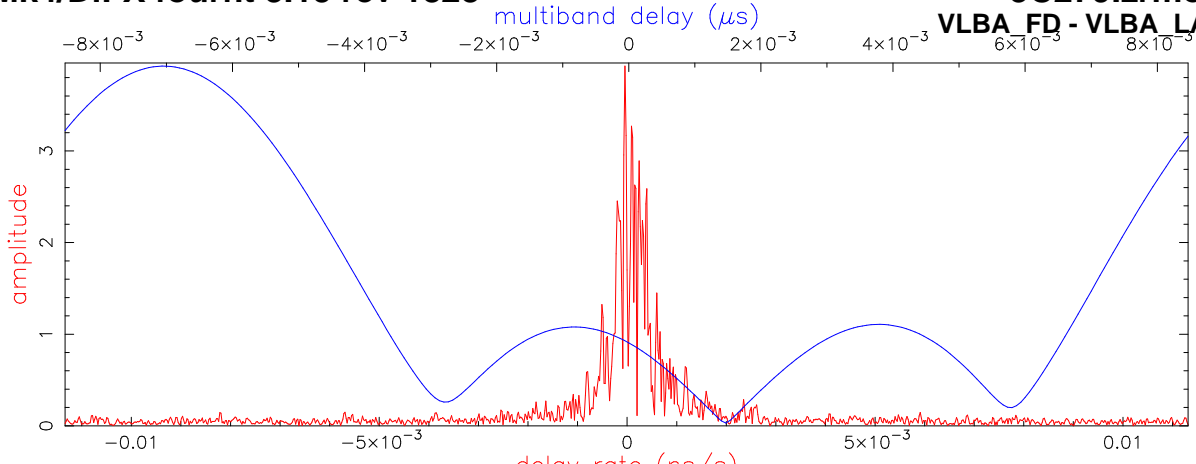
Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



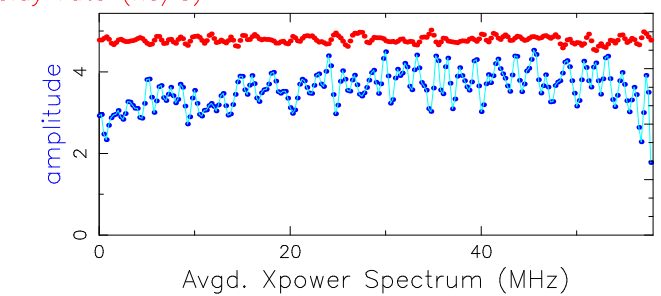
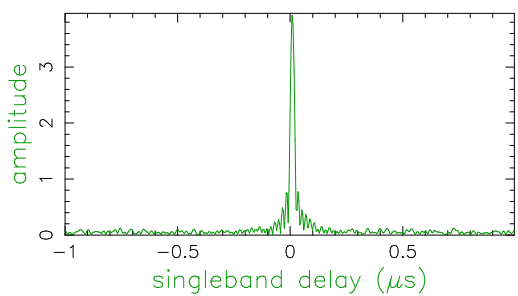
	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
	-125.7	-140.0	-152.2	-118.8	Phase	-133.9
	3.7	3.4	2.6	2.5	Ampl.	3.0
	234.9	235.1	235.5	235.5	Sbd box	235.2
U/L	469/0	469/0	469/0	469/0	APs used	
f	3890	296	1703	3109	PC freqs	
l	3890	296	1703	3109	PC freqs	
f:l	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	Chan ids	
l	W00UL	W01UL	W02UL	W03UL	Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	8.13312220253E+02	Apriori delay (usec)	8.13302438028E+02	Resid mbdelay (usec)	-7.28444E-03	+/- 2.8E-05
Sband delay (usec)	8.13312004924E+02	Apriori clock (usec)	3.4692001E+00	Resid sbdelay (usec)	9.56690E-03	+/- 1.1E-04
Phase delay (usec)	8.13302433709E+02	Apriori clockrate (us/s)	-3.2019450E-07	Resid phdelay (usec)	-4.31864E-06	+/- 4.3E-08
Delay rate (us/s)	-7.84752728711E-02	Apriori rate (us/s)	-7.84752377380E-02	Resid rate (us/s)	-3.51331E-08	+/- 3.1E-10
Total phase (deg)	-198.0	Apriori accel (us/s/s)	-3.43879723683E-06	Resid phase (deg)	-202.2	+/- 1.3

ph/seg (deg)	RMS 70.2	Theor. 4.4	Amplitude 2.995 +/- 0.035	Search (1024X16)	2.852	Apriori mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	125.2	7.7	Interp. 0.000	Inc. seg. avg.	6.440	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.009	0.009	
ph/frq (deg)	18.3	1.3	Inc. frq. avg.	3.049	Bits/sample: 2x2	Sample rate(MSamp/s): 116	nlags: 232	t_cohere infinite	dr window (ns/s)	-0.011	0.011
amp/frq (%)	16.9	2.3			Data rate(Mb/s): 928			ion window (TEC)	0.00	0.00	

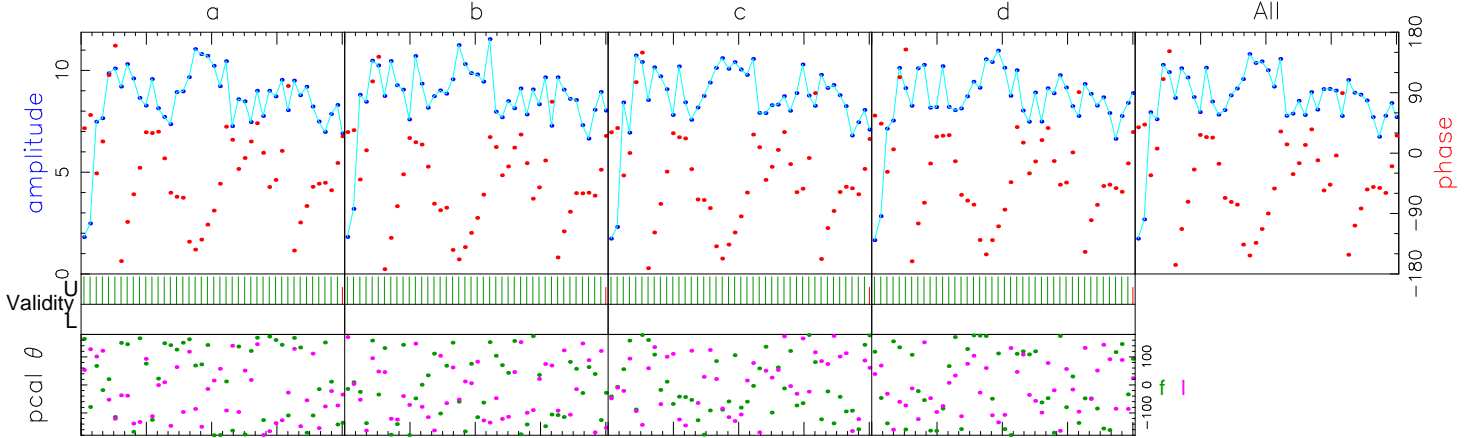


Fringe quality 5
SNR 112.8
Int time 239.545
Amp 3.960
Phase -114.2
PFD 0.0e+00
Delays (us)
SBD 0.009903
MBD -0.007032
Fringe rate (Hz)
-0.003188
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. ma008
Exper # 16383
Yr:day 2017:094
Start 084200.00
Stop 084600.13
FRT 084400.00
Corr/FF/build
2017:220:143927
2017:244:184440
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"



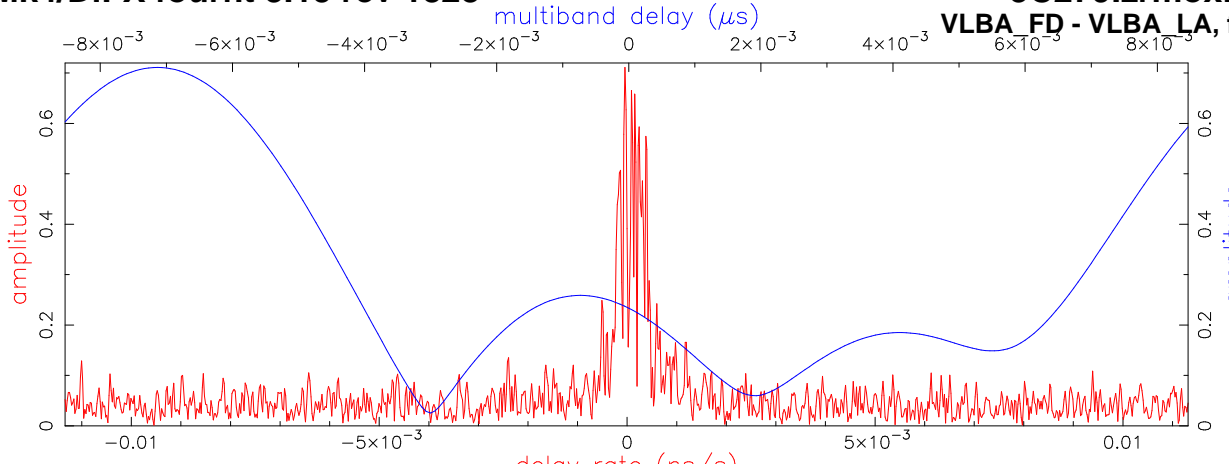
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec

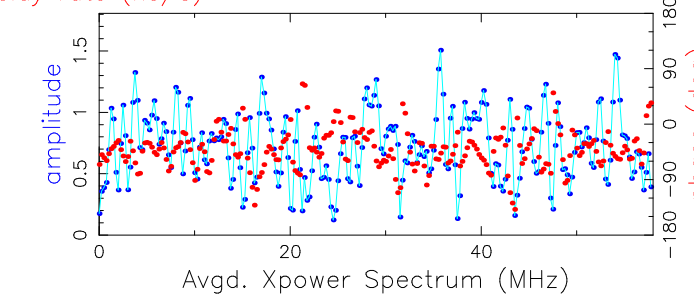
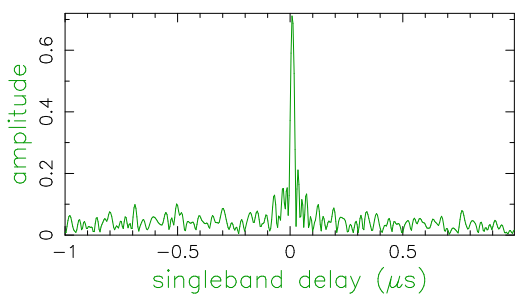


	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
	-40.8	-50.9	-50.4	-41.8	Phase	-46.0
	3.9	3.9	3.9	4.0	Ampl.	3.9
	235.0	235.5	235.1	235.5	Sbd box	235.3
U/L	469/0	469/0	469/0	469/0	APs used	
f	3890	296	1703	3109	PC freqs	
l	3890	296	1703	3109	PC freqs	
f:l	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	Tracks	
					Chan ids	
					Tracks	
Group delay (usec)(sbd)	8.13312472908E+02	Apriori delay (usec)	8.13302438028E+02	Resid mbdelay (usec)	-7.03179E-03	+/- 2.2E-05
Sband delay (usec)	8.13312340648E+02	Apriori clock (usec)	3.4692001E+00	Resid sbdelay (usec)	9.90262E-03	+/- 8.4E-05
Phase delay (usec)	8.13302436545E+02	Apriori clockrate (us/s)	-3.2019450E-07	Resid phdelay (usec)	-1.48233E-06	+/- 3.3E-08
Delay rate (us/s)	-7.84752747531E-02	Apriori rate (us/s)	-7.84752377380E-02	Resid rate (us/s)	-3.70150E-08	+/- 2.4E-10
Total phase (deg)	-110.0	Apriori accel (us/s/s)	-3.43879723683E-06	Resid phase (deg)	-114.2	+/- 1.0

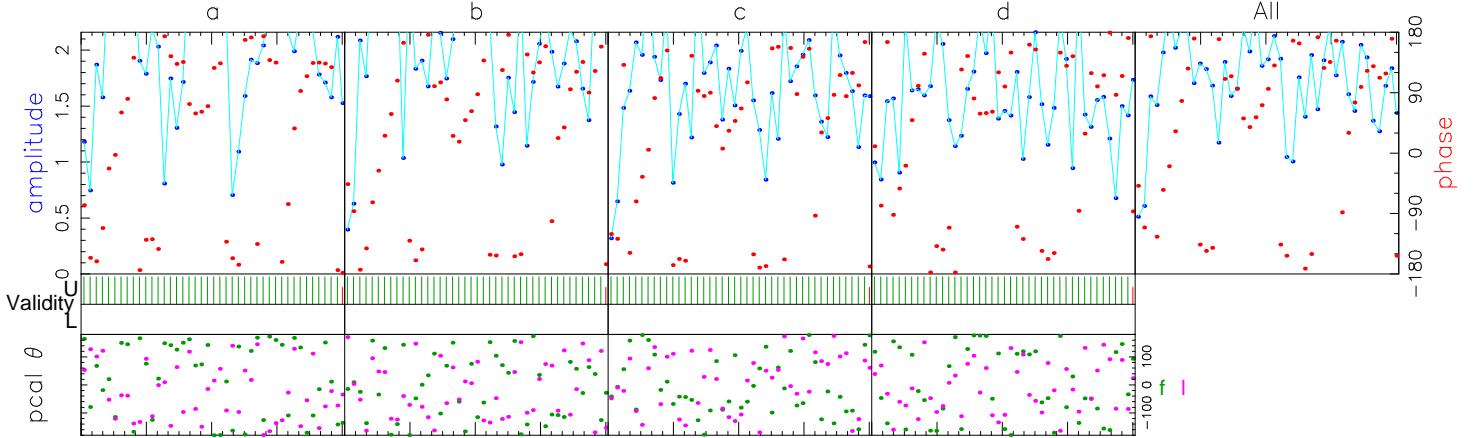
RMS Theor. Amplitude 3.960 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
ph/seg (deg) 69.0 3.3 Search (1024X16) 3.759 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
amp/seg (%) 123.2 5.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.009 0.009
ph/frq (deg) 6.7 1.0 Inc. seg. avg. 8.519 Sample rate(MSamp/s): 116 dr window (ns/s) -0.011 0.011
amp/frq (%) 1.4 1.8 Inc. frq. avg. 3.939 Data rate(Mb/s): 928 nlags: 232 t_cohere infinite ion window (TEC) 0.00 0.00
f: az 217.7 el 46.3 pa 32.4 l: az 212.0 el 43.1 pa 26.1 u,v (fr/asec) 449.137 -633.182 simultaneous interpolator
Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fl.zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fl.W.42.zrmoxn



Fringe quality 8
SNR 20.5
Int time 239.545
Amp 0.720
Phase 66.4
PFD 0.0e+00
Delays (us)
SBD 0.010092
MBD -0.007110
Fringe rate (Hz)
-0.002933
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. ma008
Exper # 16383
Yr:day 2017:094
Start 084200.00
Stop 084600.13
FRT 084400.00
Corr/FF/build
2017:220:143927
2017:244:184440
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"



Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec

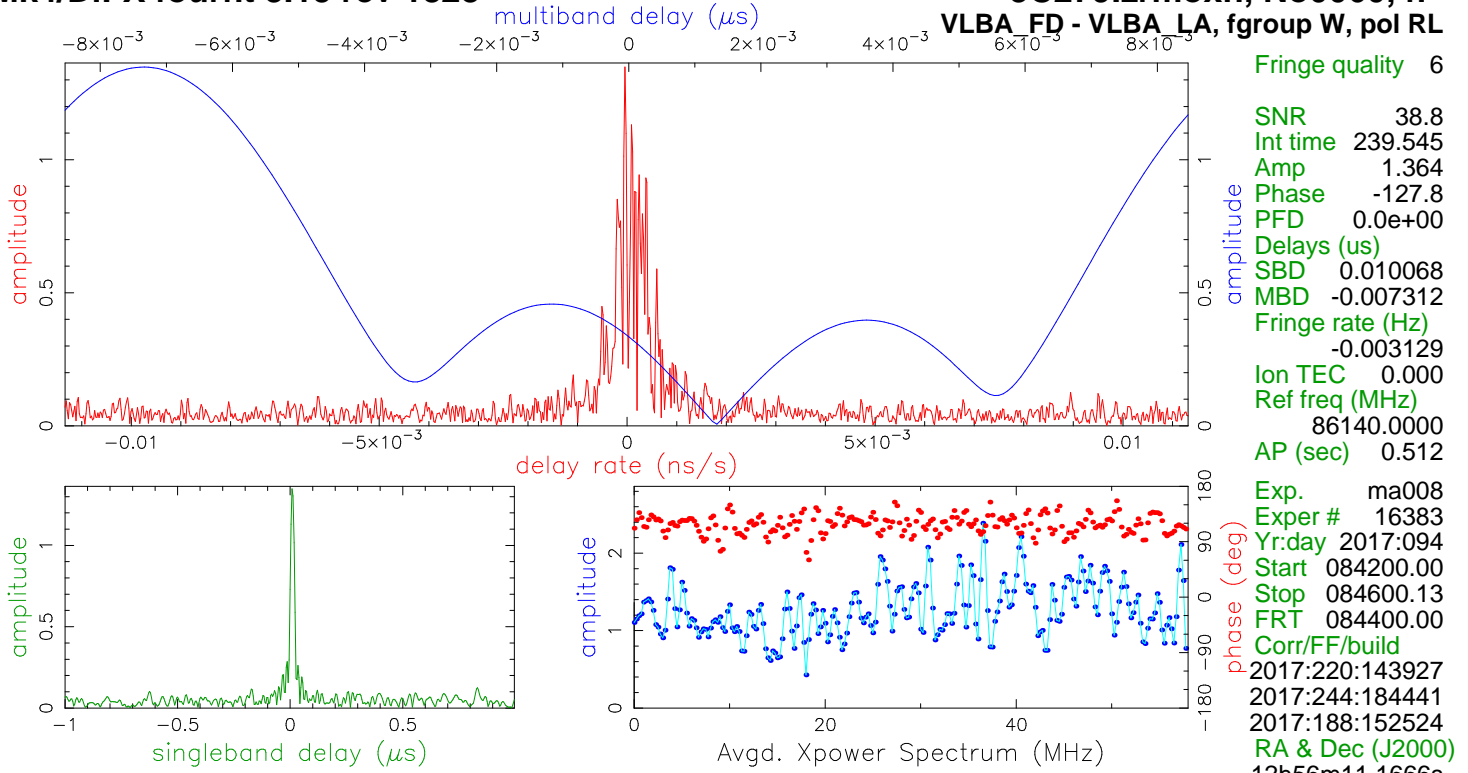


	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
	142.3	129.7	118.9	148.9	Phase	134.7
	0.9	0.7	0.7	0.6	Ampl.	0.7
	234.8	235.5	235.5	235.8	Sbd box	235.3
U/L	469/0	469/0	469/0	469/0	APs used	
f	3890	296	1703	3109	PC freqs	
l	3890	296	1703	3109	PC freqs	
f:l	0:0	0:0	0:0	0:0	PC phase	
f:l	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	PC amp	
l	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	Chan ids	
l	W00UR	W01UR	W02UR	W03UR	Tracks	
					Chan ids	
					Tracks	

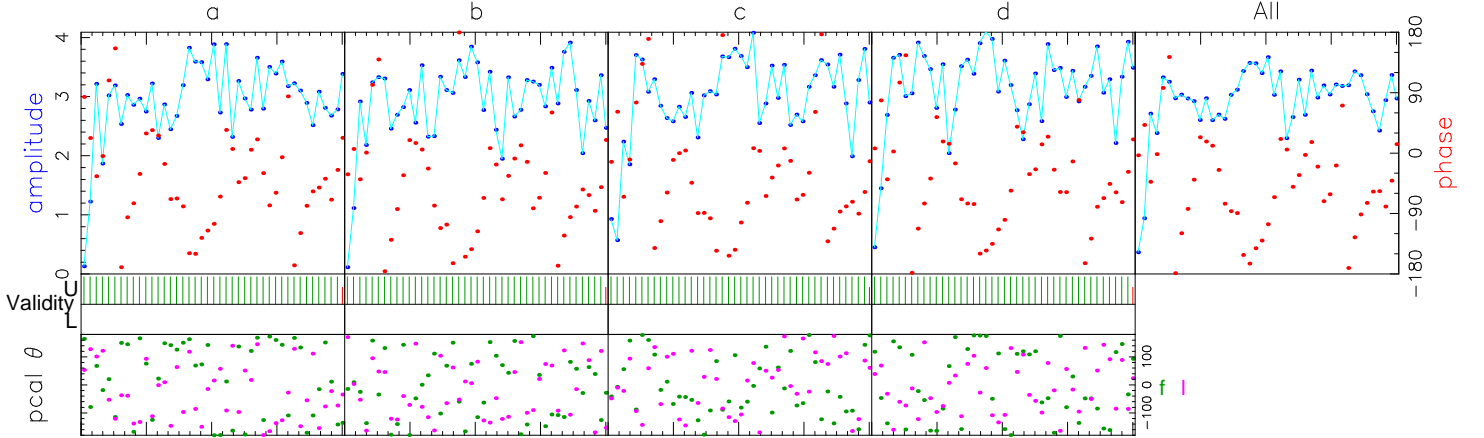
Group delay (usec)(sbd)	8.13312394607E+02	Apriori delay (usec)	8.13302438028E+02	Resid mbdelay (usec)	-7.11009E-03	+/-	1.2E-04
Sband delay (usec)	8.13312530442E+02	Apriori clock (usec)	3.4692001E+00	Resid sbdelay (usec)	1.00924E-02	+/-	4.6E-04
Phase delay (usec)	8.13302442371E+02	Apriori clockrate (us/s)	-3.2019450E-07	Resid phdelay (usec)	4.34318E-06	+/-	1.8E-07
Delay rate (us/s)	-7.84752717871E-02	Apriori rate (us/s)	-7.84752377380E-02	Resid rate (us/s)	-3.40490E-08	+/-	1.3E-09
Total phase (deg)	70.6	Apriori accel (us/s/s)	-3.43879723683E-06	Resid phase (deg)	66.4	+/-	5.6

ph/seg (deg)	RMS 75.6	Theor. 18.3	Amplitude 0.720 +/- 0.035	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	151.6	32.0	Search (1024X16) 0.680	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.009	0.009
ph/frq (deg)	16.4	5.6	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	15.7	9.7	Inc. seg. avg. 1.643	Sample rate(MSamp/s): 116		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 0.722	Data rate(Mb/s): 928	nlags: 232	t_cohere infinite		

f: az 217.7 el 46.3 pa 32.4 l: az 212.0 el 43.1 pa 26.1 u,v (fr/asec) 449.137 -633.182 simultaneous interpolator
Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fl.zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fl.W.43.zrmoxn

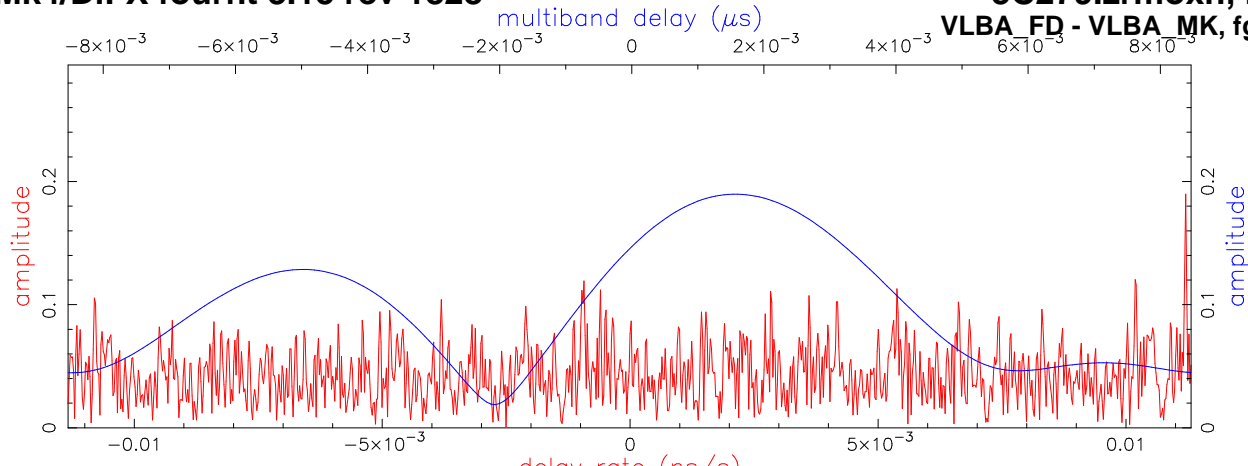


Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec

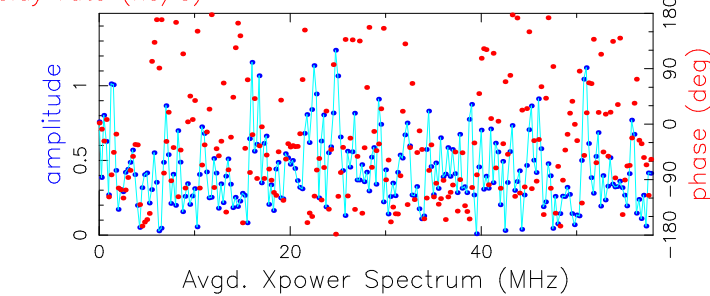
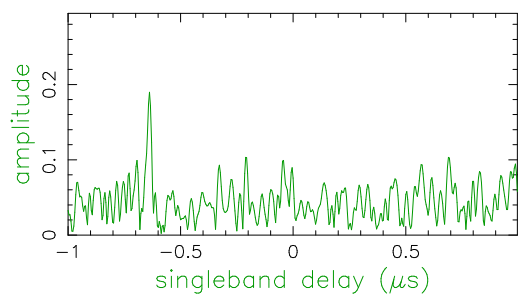


	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
-51.0	-65.9	-70.7	-51.8	-51.8	Phase	-59.5
1.4	1.3	1.4	1.5	1.5	Ampl.	1.4
235.0	235.3	235.2	235.7	235.7	Sbd box	235.3
U/L 469/0	469/0	469/0	469/0	469/0	APs used	
f 3890	296	1703	3109	3109	PC freqs	
l 3890	296	1703	3109	3109	PC freqs	
f:l 0:0	0:0	0:0	0:0	0:0	PC phase	
f:l 0:0	0:0	0:0	0:0	0:0	Manl PC	
f 1000	1000	1000	1000	1000	PC amp	
l 1000	1000	1000	1000	1000		
f W00UR	W01UR	W02UR	W03UR		Chan ids	
l W00UL	W01UL	W02UL	W03UL		Tracks	
					Chan ids	
					Tracks	
Group delay (usec)(sbd)	8.13312193152E+02	Apriori delay (usec)	8.13302438028E+02	Resid mbdelay (usec)	-7.31154E-03	+/- 6.3E-05
Sband delay (usec)	8.13312506442E+02	Apriori clock (usec)	3.4692001E+00	Resid sbdelay (usec)	1.00684E-02	+/- 2.4E-04
Phase delay (usec)	8.13302436108E+02	Apriori clockrate (us/s)	-3.2019450E-07	Resid phdelay (usec)	-1.91996E-06	+/- 9.5E-08
Delay rate (us/s)	-7.84752740573E-02	Apriori rate (us/s)	-7.84752377380E-02	Resid rate (us/s)	-3.63192E-08	+/- 6.9E-10
Total phase (deg)	-123.6	Apriori accel (us/s/s)	-3.43879723683E-06	Resid phase (deg)	-127.8	+/- 2.9

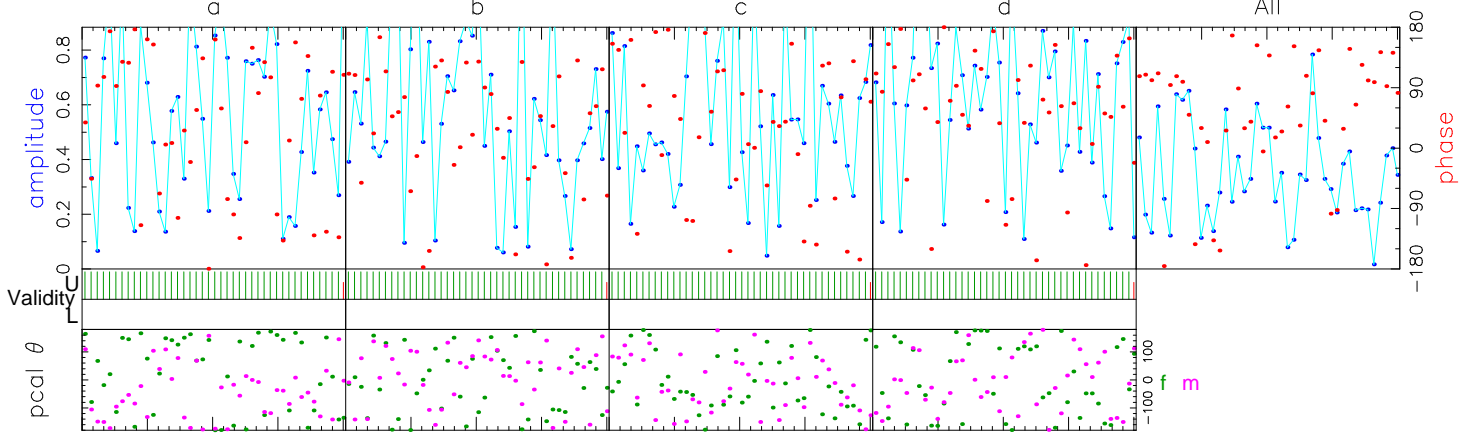
	RMS	Theor.	Amplitude	1.364 +/- 0.035	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	68.9	9.7	Search (1024X16)	1.300	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	123.3	16.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.009 0.009
ph/frq (deg)	12.2	2.9	Inc. seg. avg.	2.891	Sample rate(MSamp/s): 116	dr window (ns/s) -0.011 0.011
amp/frq (%)	5.0	5.1	Inc. frq. avg.	1.362	Data rate(Mb/s): 928	nlags: 232 t_cohere infinite ion window (TEC) 0.00 0.00



Fringe quality 0
SNR 5.4
Int time 239.538
Amp 0.295
Phase 2619.5
PFD 9.7e-01
Delays (us)
SBD -0.637929
MBD 0.001569
Fringe rate (Hz) 0.965160
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.512
Exp. ma008
Exper # 16383
Yr:day 2017:094
Start 084200.00
Stop 084600.13
FRT 084400.00
Corr/FF/build
2017:220:143927
2017:244:184442
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"



Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec

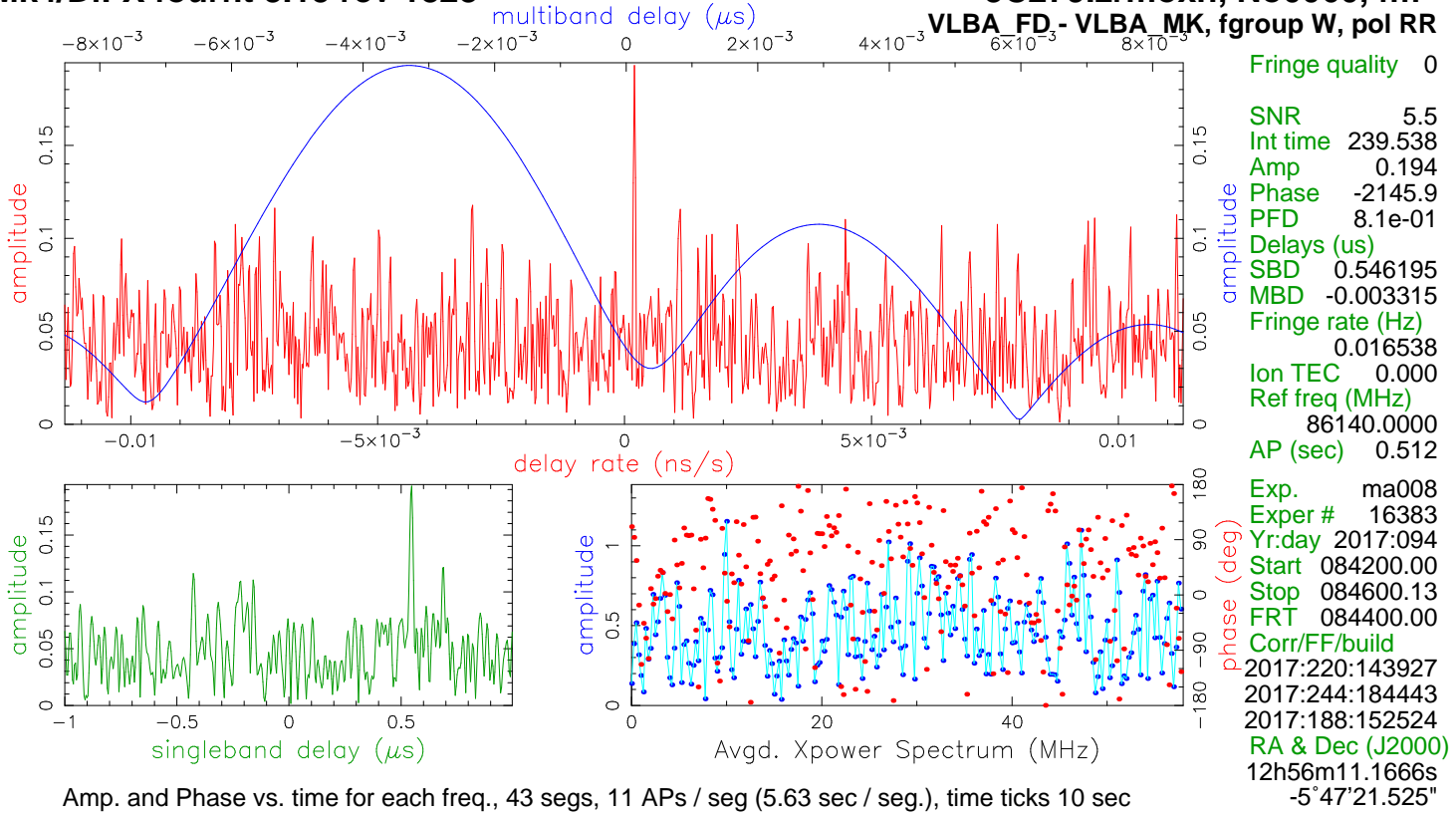


86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
121.1	69.1	89.1	101.5	Phase	94.0
0.2	0.4	0.1	0.5	Ampl.	0.3
229.0	86.0	258.1	84.9	Sbd box	85.0
U/L 469/0	469/0	469/0	469/0	APs used	
f 3890	296	1703	3109	PC freqs	
m 3890	296	1703	3109	PC freqs	
f:m 0:0	0:0	0:0	0:0	PC phase	
f:m 0:0	0:0	0:0	0:0	Mani PC	
f 1000	1000	1000	1000	PC amp	
m 1000	1000	1000	1000	Chan ids	
f W00UL	W01UL	W02UL	W03UL	Tracks	
m W00UL	W01UL	W02UL	W03UL	Chan ids	
				Tracks	

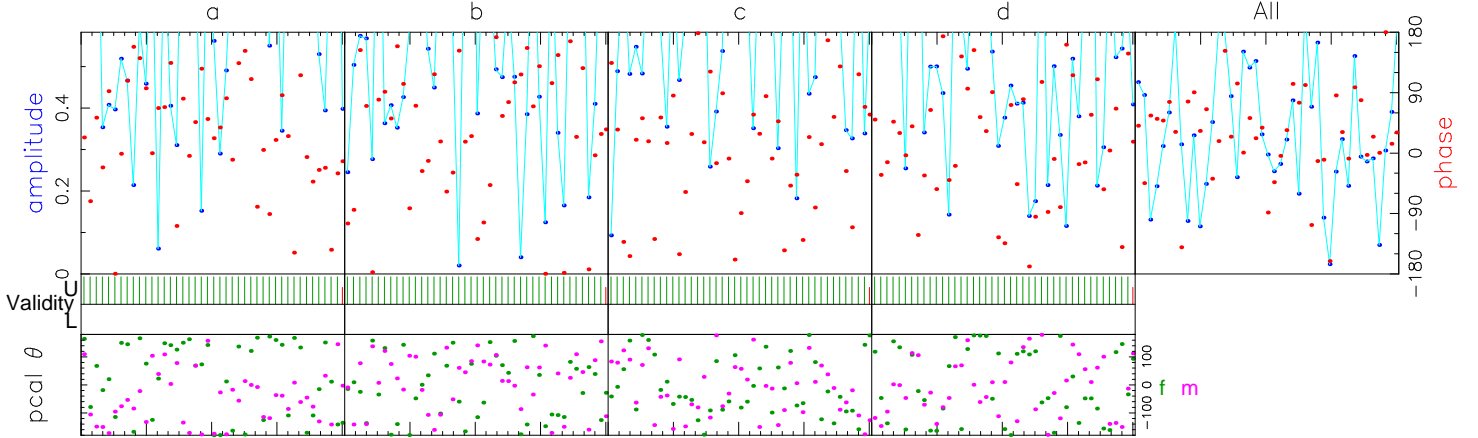
Group delay (usec)(sbd)	-1.87094482475E+03	Apriori delay (usec)	-1.87031492675E+03	Resid mbdelay (usec)	1.56867E-03	+/- 4.5E-04
Sband delay (usec)	-1.87095285586E+03	Apriori clock (usec)	1.4867544E-01	Resid sbdelay (usec)	-6.37929E-01	+/- 1.8E-03
Phase delay (usec)	-1.87031492372E+03	Apriori clockrate (us/s)	-3.5806747E-07	Resid phdelay (usec)	3.03247E-06	+/- 6.8E-07
Delay rate (us/s)	-1.20938965211E+00	Apriori rate (us/s)	-1.20940085666E+00	Resid rate (us/s)	1.12046E-05	+/- 4.9E-09
Total phase (deg)	2334.9	Apriori accel (us/s/s)	7.97561660027E-06	Resid phase (deg)	2619.5	+/- 21.2

ph/seg (deg)	RMS 67.9	Theor. 69.5	Amplitude Search (1024X16)	0.295 +/- 0.055	0.186	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
amp/seg (%)	124.5	121.3	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	26.8	21.2	Inc. seg. avg.	0.309	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.009	0.009	
amp/frq (%)	43.8	37.0	Inc. frq. avg.	0.291	0.291	Sample rate(MSamp/s): 116		dr window (ns/s)	-0.011	0.011	
						Data rate(Mb/s): 928	nlags: 232	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 217.7 el 46.3 pa 32.4 m: az 132.0 el 53.5 pa -44.6 u,v (fr/asec) 6968.742 1440.205 simultaneous interpolator
Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fm..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fm.W.45.zrmoxn

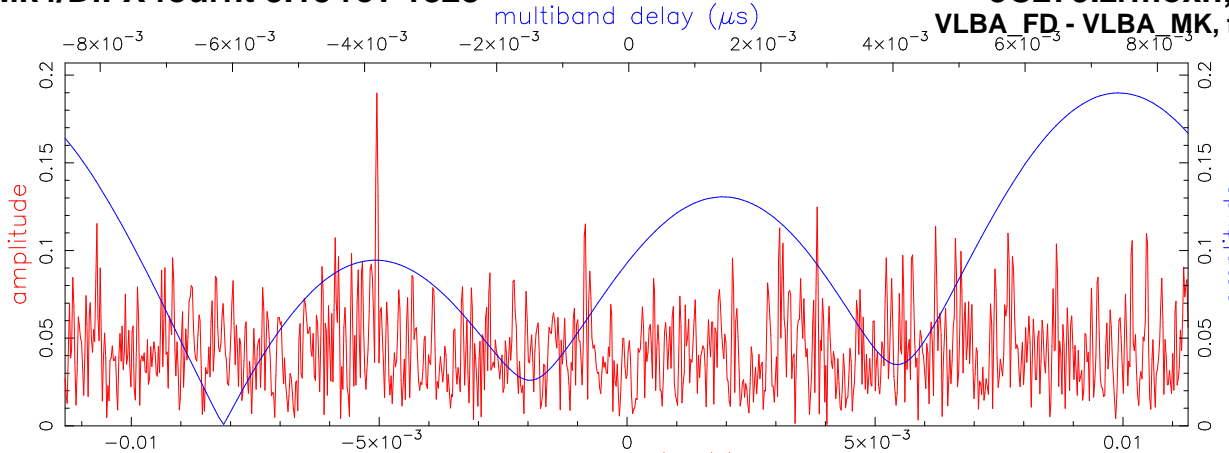


Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec

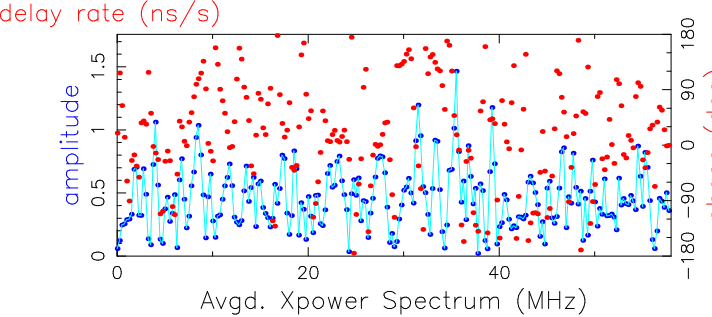
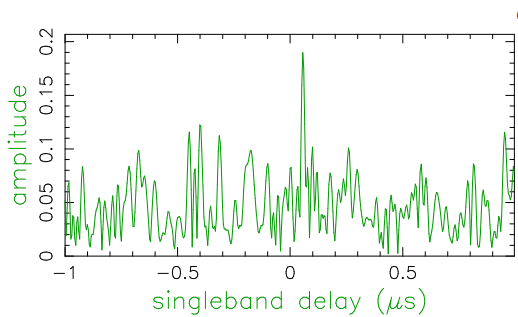


	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
30.6	57.7	20.3	40.2		Phase	38.3
0.3	0.2	0.1	0.2		Ampl.	0.2
360.1	180.9	13.0	423.9		Sbd box	359.7
U/L 469/0	469/0	469/0	469/0		APs used	
f 3890	296	1703	3109		PC freqs	
m 3890	296	1703	3109		PC freqs	
f:m 0:0	0:0	0:0	0:0		PC phase	
f:m 0:0	0:0	0:0	0:0		Mani PC	
f 1000	1000	1000	1000		PC amp	
m 1000	1000	1000	1000			
f W00UR	W01UR	W02UR	W03UR		Chan ids	
m W00UR	W01UR	W02UR	W03UR		Tracks	
					Chan ids	
					Tracks	
Group delay (usec)(sbd)	-1.86977210848E+03	Apriori delay (usec)	-1.87031492675E+03	Resid mbdelay (usec)	-3.31506E-03	+/- 4.4E-04
Sband delay (usec)	-1.86976873200E+03	Apriori clock (usec)	1.4867544E-01	Resid sbdelay (usec)	5.46195E-01	+/- 1.7E-03
Phase delay (usec)	-1.87031492552E+03	Apriori clockrate (us/s)	-3.5806747E-07	Resid phdelay (usec)	1.23532E-06	+/- 6.7E-07
Delay rate (us/s)	-1.20940066467E+00	Apriori rate (us/s)	-1.20940085666E+00	Resid rate (us/s)	1.91991E-07	+/- 4.8E-09
Total phase (deg)	-2430.5	Apriori accel (us/s/s)	7.97561660027E-06	Resid phase (deg)	-2145.9	+/- 20.7

ph/seg (deg) 66.9 67.8 Search (1024X16) 0.185 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 108.9 118.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 19.6 20.7 Inc. seg. avg. 0.200 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.009 0.009
 amp/frq (%) 23.8 36.1 Inc. frq. avg. 0.186 Sample rate(MSamp/s): 116 Data rate(Mb/s): 928 nlags: 232 t_cohere infinite dr window (ns/s) -0.011 0.011
 f: az 217.7 el 46.3 pa 32.4 m: az 132.0 el 53.5 pa -44.6 u,v (fr/asec) 6968.742 1440.205 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fm..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fm.W.46.zrmoxn

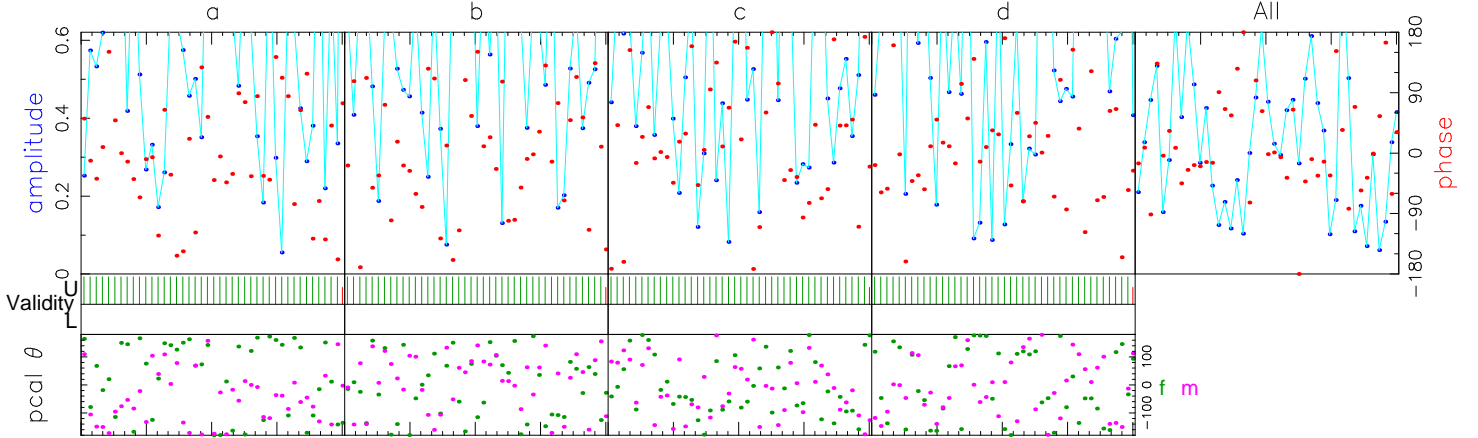


Fringe quality 0
SNR 5.4
Int time 239.538
Amp 0.207
Phase -275.2
PFD 9.5e-01
Delays (us)
SBD 0.056806
MBD -0.009600
Fringe rate (Hz)
-0.434274
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. ma008
Exper # 16383
Yr:day 2017:094
Start 084200.00
Stop 084600.13
FRT 084400.00
Corr/FF/build
2017:220:143927
2017:244:184444
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec

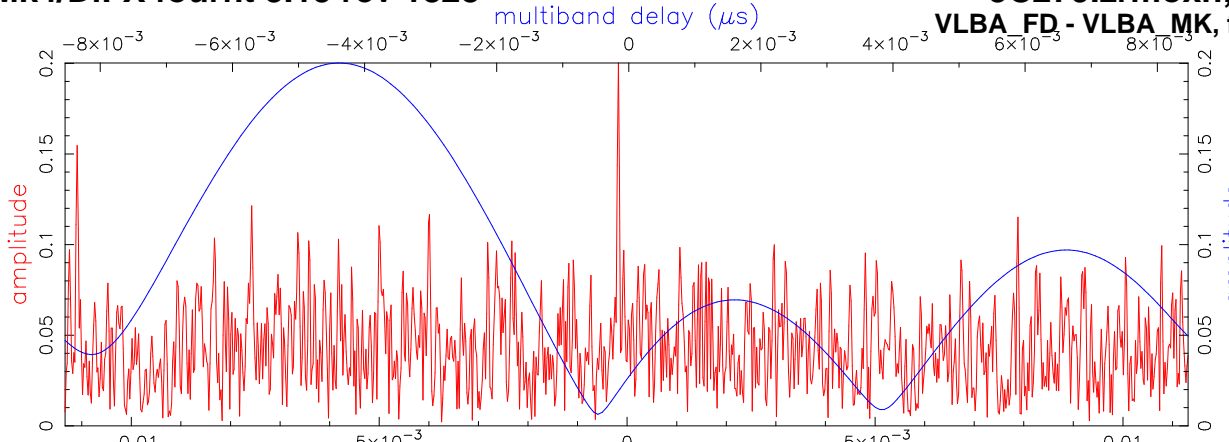


	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
	-4.3	-7.5	31.8	-11.7	Phase	-2.2
	0.3	0.1	0.1	0.3	Ampl.	0.2
	260.7	159.3	139.6	246.0	Sbd box	246.2
U/L	469/0	469/0	469/0	469/0	APs used	
f	3890	296	1703	3109	PC freqs	
m	3890	296	1703	3109	PC freqs	
f:m	0:0	0:0	0:0	0:0	PC phase	
f:m	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	Chan ids	
m	W00UR	W01UR	W02UR	W03UR	Tracks	
					Chan ids	
					Tracks	

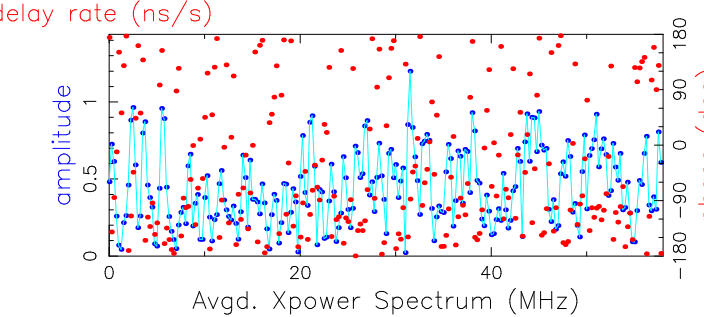
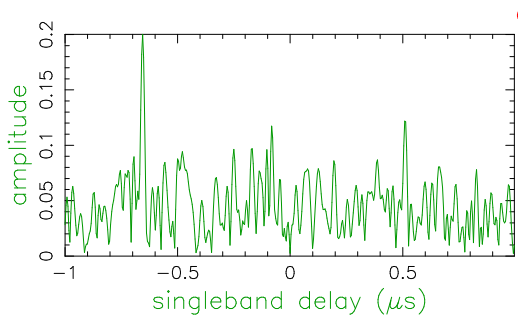
Group delay (usec)(sbd)	-1.87025626009E+03	Apriori delay (usec)	-1.87031492675E+03	Resid mbdelay (usec)	-9.60000E-03	+/-	4.5E-04
Sband delay (usec)	-1.87025812124E+03	Apriori clock (usec)	1.4867544E-01	Resid sbdelay (usec)	5.68055E-02	+/-	1.8E-03
Phase delay (usec)	-1.87031492683E+03	Apriori clockrate (us/s)	-3.5806747E-07	Resid phdelay (usec)	-7.10205E-08	+/-	6.8E-07
Delay rate (us/s)	-1.20940589815E+00	Apriori rate (us/s)	-1.20940085666E+00	Resid rate (us/s)	-5.04149E-06	+/-	4.9E-09
Total phase (deg)	-559.9	Apriori accel (us/s/s)	7.97561660027E-06	Resid phase (deg)	-275.2	+/-	21.1

ph/seg (deg)	74.1	Theor.	69.2	Amplitude	0.207 +/- 0.038	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	123.4	Search (1024X16)	0.179	Search	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	25.3	Interp.	0.000	Inc. seg. avg.	0.214	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	43.7	Inc. frq. avg.	0.200	Inc. frq. avg.	0.200	Sample rate (MSamp/s):	116	mb window (us)	-0.009 0.009
						Data rate (Mb/s):	928	dr window (ns/s)	-0.011 0.011
						nlags:	232	ion window (TEC)	0.00 0.00

f: az 217.7 el 46.3 pa 32.4 m: az 132.0 el 53.5 pa -44.6 u,v (fr/asec) 6968.742 1440.205 simultaneous interpolator
Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fm..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fm.W.47.zrmoxn

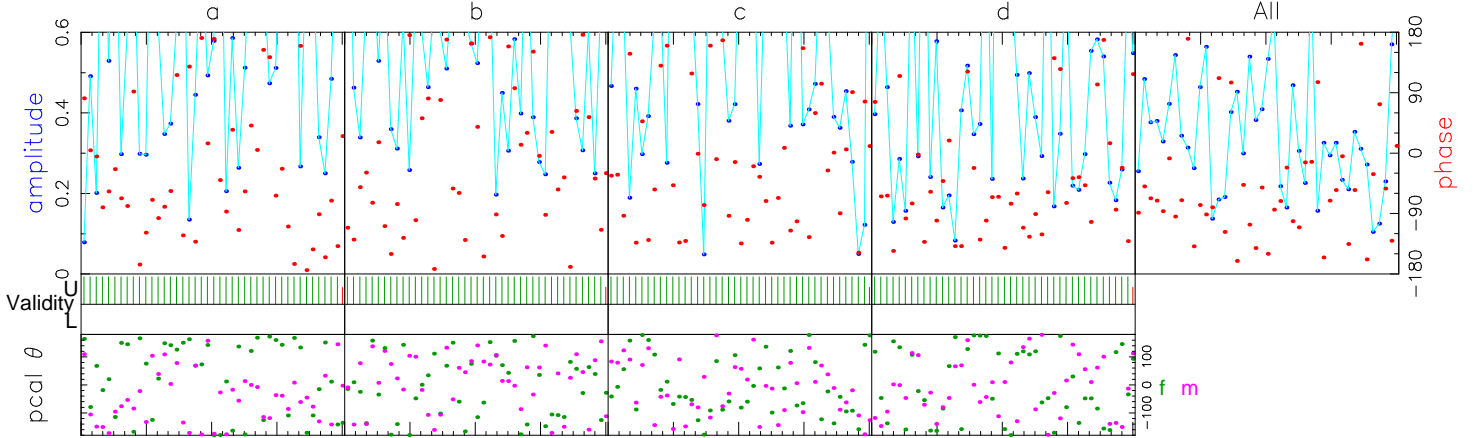


Fringe quality 0
 SNR 5.7
 Int time 239.538
 Amp 0.200
 Phase 2507.8
 PFD 4.8e-01
 Delays (us)
 SBD -0.655353
 MBD -0.004390
 Fringe rate (Hz)
 -0.015462
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. ma008
 Exper # 16383
 Yr:day 2017:094
 Start 084200.00
 Stop 084600.13
 FRT 084400.00
 Corr/FF/build
 2017:220:143927
 2017:244:184445
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

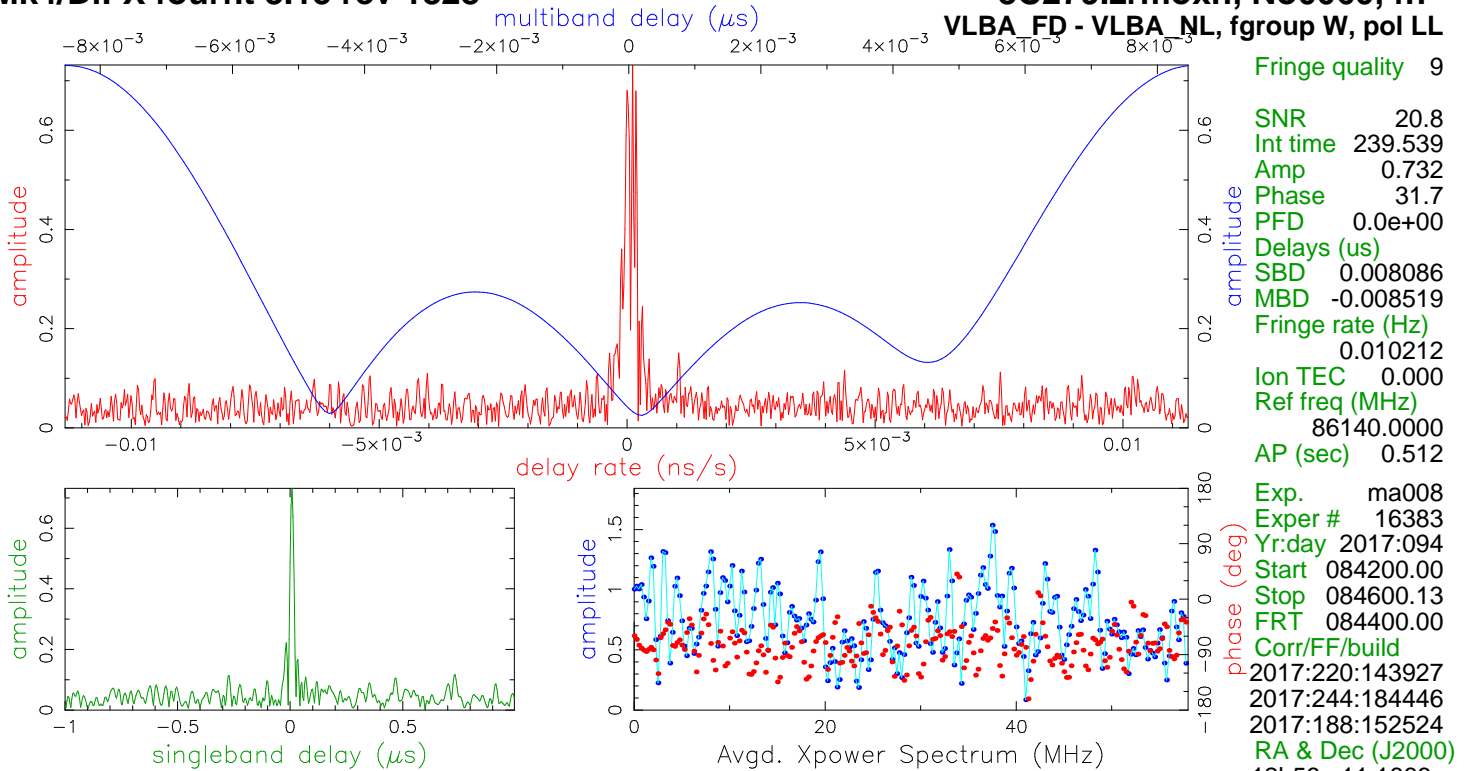
Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
UL	469/0	469/0	469/0	469/0	APs used	
f	3890	296	1703	3109	PC freqs	
m	3890	296	1703	3109	PC freqs	
f:m	0:0	0:0	0:0	0:0	PC phase	
f	1000	1000	1000	1000	Manl PC	
m	1000	1000	1000	1000	PC amp	
f	W00UR	W01UR	W02UR	W03UR	Chan ids	
m	W00UL	W01UL	W02UL	W03UL	Tracks	

Group delay (usec)(sbd)	-1.87096784962E+03	Apriori delay (usec)	-1.87031492675E+03	Resid mbdelay (usec)	-4.38953E-03	+/-	4.3E-04
Sband delay (usec)	-1.87097028013E+03	Apriori clock (usec)	1.4867544E-01	Resid sbdelay (usec)	-6.55353E-01	+/-	1.7E-03
Phase delay (usec)	-1.87031492952E+03	Apriori clockrate (us/s)	-3.5806747E-07	Resid phdelay (usec)	-2.76934E-06	+/-	6.5E-07
Delay rate (us/s)	-1.20940103616E+00	Apriori rate (us/s)	-1.20940085666E+00	Resid rate (us/s)	-1.79497E-07	+/-	4.7E-09
Total phase (deg)	2583.2	Apriori accel (us/s/s)	7.97561660027E-06	Resid phase (deg)	2507.8	+/-	20.1

ph/seg (deg)	70.0	Theor.	65.9	Amplitude	0.200 +/- 0.035	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	107.4	Search (1024X16)	0.199	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	12.5	Inc. seg. avg.	0.212	Inc. frq. avg.	0.191	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	24.7	Inc. frq. avg.	0.191	u,v (fr/asec)	6968.742 1440.205	Sample rate (MSamp/s):	116	mb window (us)	-0.009 0.009



Fringe quality 9

SNR 20.8

Int time 239.539

Amp 0.732

Phase 31.7

PFD 0.0e+00

Delays (us)

SBD 0.008086

MBD -0.008519

Fringe rate (Hz) 0.010212

Ion TEC 0.000

Ref freq (MHz) 86140.0000

AP (sec) 0.512

Exp. ma008

Exper # 16383

Yr:day 2017:094

Start 084200.00

Stop 084600.13

FRT 084400.00

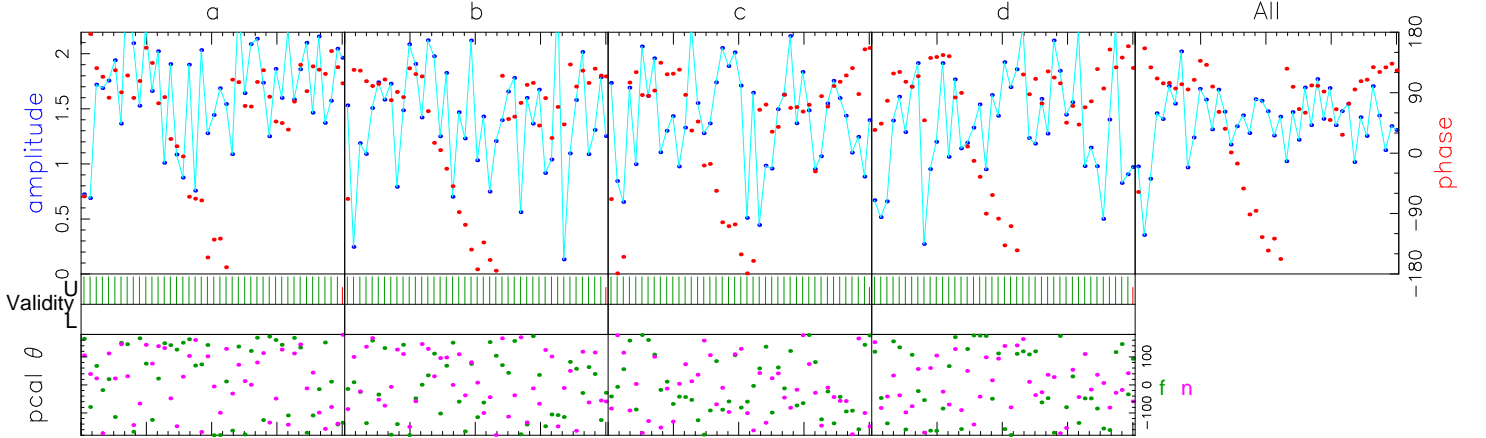
Corr/FF/build 2017:220:143927

2017:244:184446

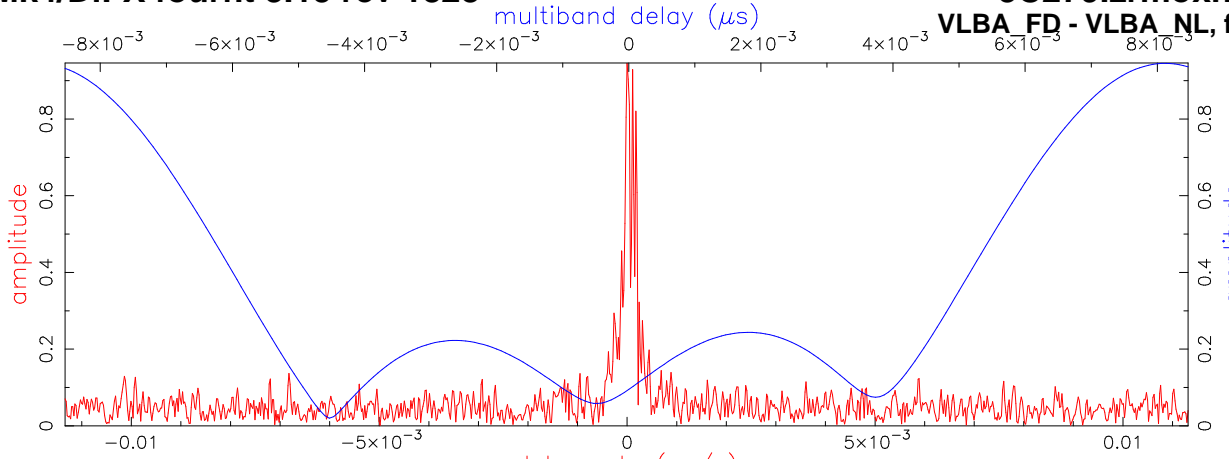
2017:188:152524

RA & Dec (J2000) 12h56m11.1666s -5°47'21.525"

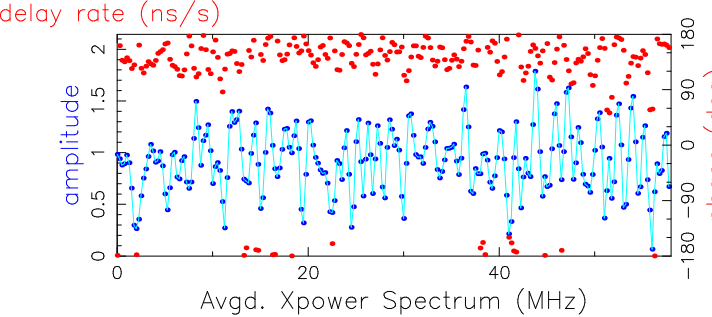
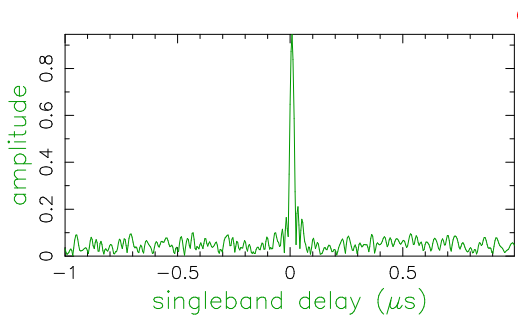
Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All			
U/L	469/0	469/0	469/0	469/0	APs used	234.9			
f	3890	296	1703	3109	PC freqs				
n	3890	296	1703	3109	PC freqs				
f:n	0:0	0:0	0:0	0:0	PC phase				
f	1000	1000	1000	1000	Mani PC				
n	1000	1000	1000	1000	PC amp				
f	W00UL	W01UL	W02UL	W03UL	Chan ids				
n	W00UL	W01UL	W02UL	W03UL	Tracks				
					Chan ids				
					Tracks				
Group delay (usec)(sbd)	4.31391168878E+03	Apriori delay (usec)	4.31390314158E+03	Resid mbdelay (usec)	-8.51946E-03	+/- 1.2E-04			
Sband delay (usec)	4.31391122765E+03	Apriori clock (usec)	-6.3197403E+00	Resid sbdelay (usec)	8.08607E-03	+/- 4.6E-04			
Phase delay (usec)	4.31390314480E+03	Apriori clockrate (us/s)	-7.1775409E-07	Resid phdelay (usec)	3.22208E-06	+/- 1.8E-07			
Delay rate (us/s)	1.34608323838E-01	Apriori rate (us/s)	1.34608205290E-01	Resid rate (us/s)	1.18549E-07	+/- 1.3E-09			
Total phase (deg)	253.3	Apriori accel (us/s/s)	-2.11638113457E-05	Resid phase (deg)	31.7	+/- 5.5			
RMS	71.6	Theor.	18.0	Amplitude	0.732 +/- 0.035				
ph/seg (deg)	71.6	Search (1024X16)	0.686	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	97.2	Interp.	0.000	PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	10.1	Inc. seg. avg.	1.318	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.009 0.009	
amp/frq (%)	18.4	Inc. frq. avg.	0.732	Sample rate(MSamp/s):	116	nlags: 232	t_cohere infinite	dr window (ns/s)	-0.011 0.011
				Data rate(Mb/s):	928	ion window (TEC)	0.00 0.00		
f: az 217.7 el 46.3 pa 32.4	n: az 225.2 el 31.3 pa 32.3	u,v (fr/asec)	-790.036 -1207.763	simultaneous interpolator					
Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fn..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fn.W.49.zrmoxn									

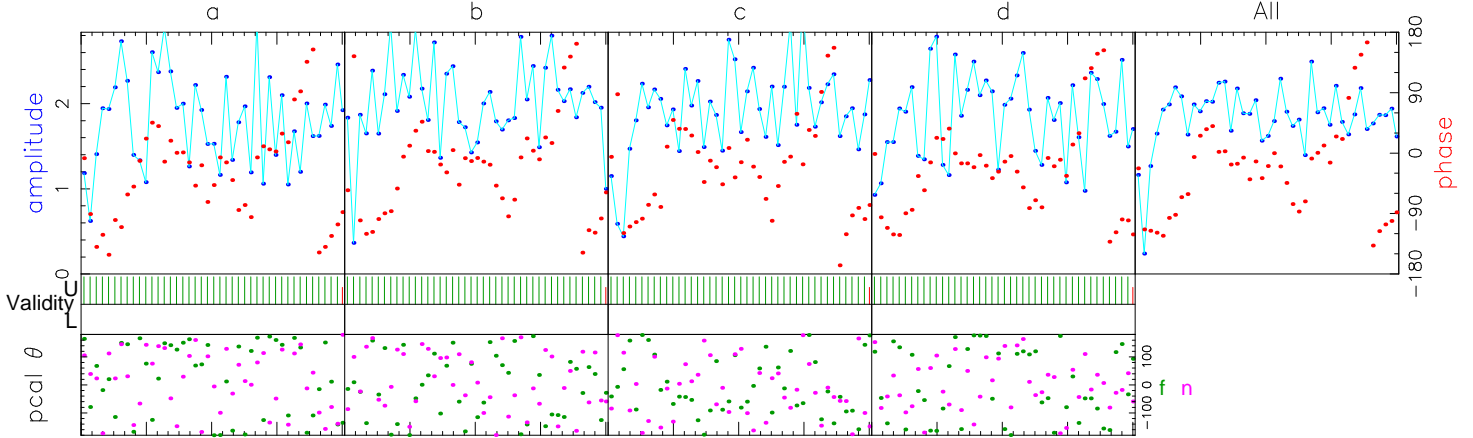


Fringe quality 9
 SNR 27.0
 Int time 239.539
 Amp 0.946
 Phase -101.4
 PFD 0.0e+00
 Delays (us)
 SBD 0.008213
 MBD -0.008949
 Fringe rate (Hz) 0.000643
 Ion TEC 0.000
 Ref freq (MHz) 86140.000
 AP (sec) 0.512
 Exp. ma008
 Exper # 16383
 Yr:day 2017:094
 Start 084200.00
 Stop 084600.13
 FRT 084400.00
 Corr/FF/build
 2017:220:143927
 2017:244:184447
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"



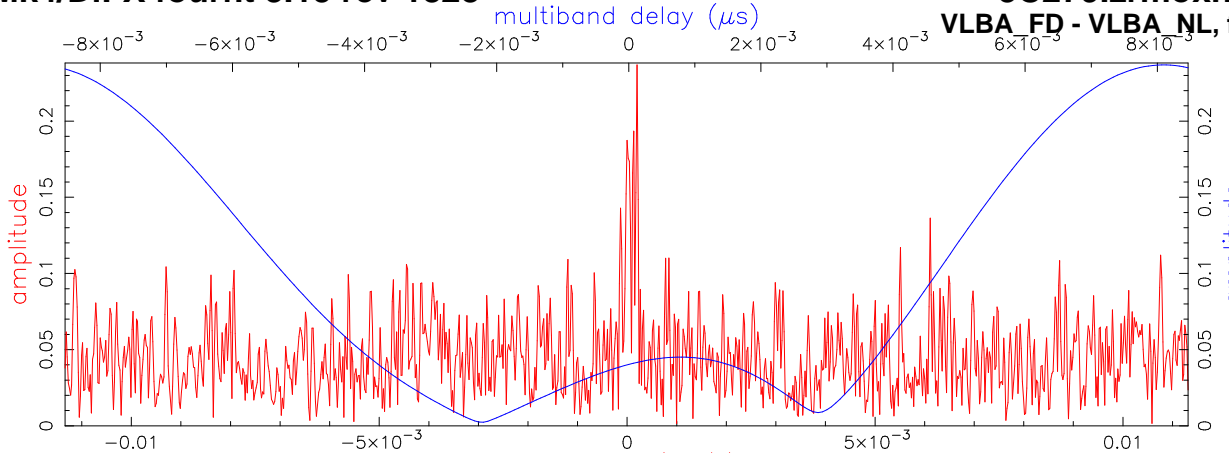
Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec

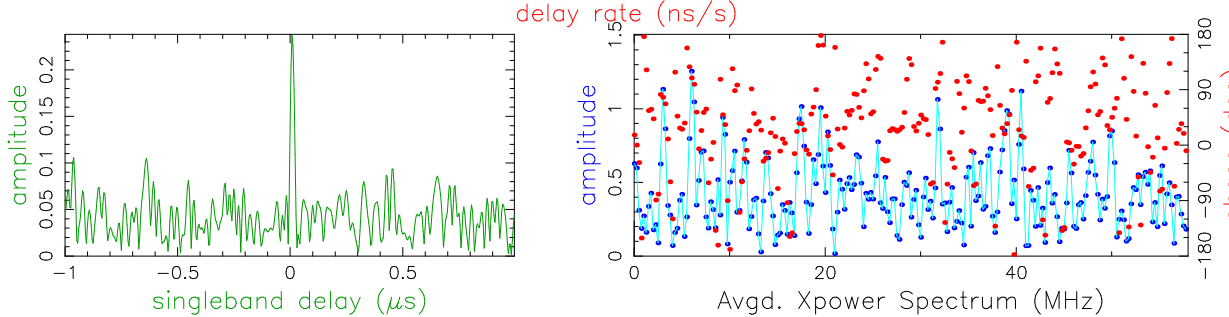


	86151.11	86209.70	86268.30	86326.89	86385.48	All
86151.11	-37.1	-31.2	-27.6	-37.3	-33.1	
U/L	0.8	1.0	1.0	1.0	0.9	
f	235.0	234.6	235.3	234.9	234.9	
n	469/0	469/0	469/0	469/0	469/0	
f	3890	296	1703	3109	3109	
n	3890	296	1703	3109	3109	
f:n	0:0	0:0	0:0	0:0	0:0	
f:n	0:0	0:0	0:0	0:0	0:0	
f	1000	1000	1000	1000	1000	
n	1000	1000	1000	1000	1000	
f	W00UR	W01UR	W02UR	W03UR	W04UR	
n	W00UR	W01UR	W02UR	W03UR	W04UR	
Group delay (usec)(sbd)	4.31391125951E+03	4.31391135482E+03	4.31390314158E+03	4.31390314158E+03	4.31390314158E+03	
Sband delay (usec)	4.31391135482E+03	4.31391135482E+03	4.31390314158E+03	4.31390314158E+03	4.31390314158E+03	
Phase delay (usec)	4.31390314051E+03	4.31390314051E+03	4.31390314051E+03	4.31390314051E+03	4.31390314051E+03	
Delay rate (us/s)	1.34608212752E-01	1.34608212752E-01	1.34608212752E-01	1.34608212752E-01	1.34608212752E-01	
Total phase (deg)		120.2				
Apriori delay (usec)			4.31390314158E+03			
Apriori clock (usec)			-6.3197403E+00			
Apriori clockrate (us/s)			-7.1775409E-07			
Apriori rate (us/s)			1.34608212752E-01			
Apriori accel (us/s/s)			-2.11638113457E-05			
Resid mbdelay (usec)			-8.94874E-03			
Resid sbdelay (usec)			8.21324E-03			
Resid phdelay (usec)			-1.06884E-06			
Resid rate (us/s)			7.46253E-09			
Resid phase (deg)			-101.4			
Pcal mode:	MANUAL	MANUAL	MANUAL	MANUAL	MANUAL	
Pcal rate:	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Bits/sample:	2x2	2x2	2x2	2x2	2x2	
Sample rate (MSamp/s):	116	116	116	116	116	
Data rate (Mb/s):	928	928	928	928	928	
lags:	232	232	232	232	232	
t_cohere:	infinite	infinite	infinite	infinite	infinite	
ion window (TEC)	0.00	0.00	0.00	0.00	0.00	
sb window (us)	-1.000	1.000	-1.000	1.000	-1.000	
mb window (us)	-0.009	0.009	-0.009	0.009	-0.009	
dr window (ns/s)	-0.011	0.011	-0.011	0.011	-0.011	
simultaneous interpolator						

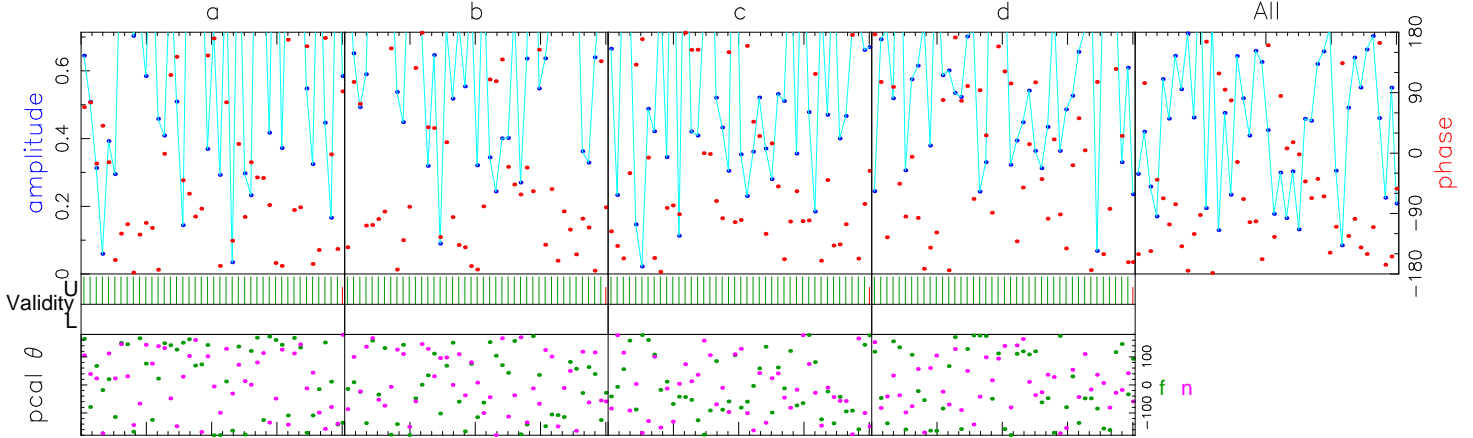
f: az 217.7 el 46.3 pa 32.4 n: az 225.2 el 31.3 pa 32.3 u,v (fr/asec) -790.036 -1207.763
 Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fn..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fn.W.50.zrmoxn



Fringe quality 0
SNR 6.8
Int time 239.539
Amp 0.238
Phase -185.4
PFD 7.7e-04
Delays (us)
SBD 0.009653
MBD -0.008926
Fringe rate (Hz) 0.016785
Ion TEC 0.000
Ref freq (MHz) 86140.000
AP (sec) 0.512
Exp. ma008
Exper # 16383
Yr:day 2017:094
Start 084200.00
Stop 084600.13
FRT 084400.00
Corr/FF/build 2017:220:143927
2017:244:184448
2017:188:152524
RA & Dec (J2000) 12h56m11.1666s
-5°47'21.525"



Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec

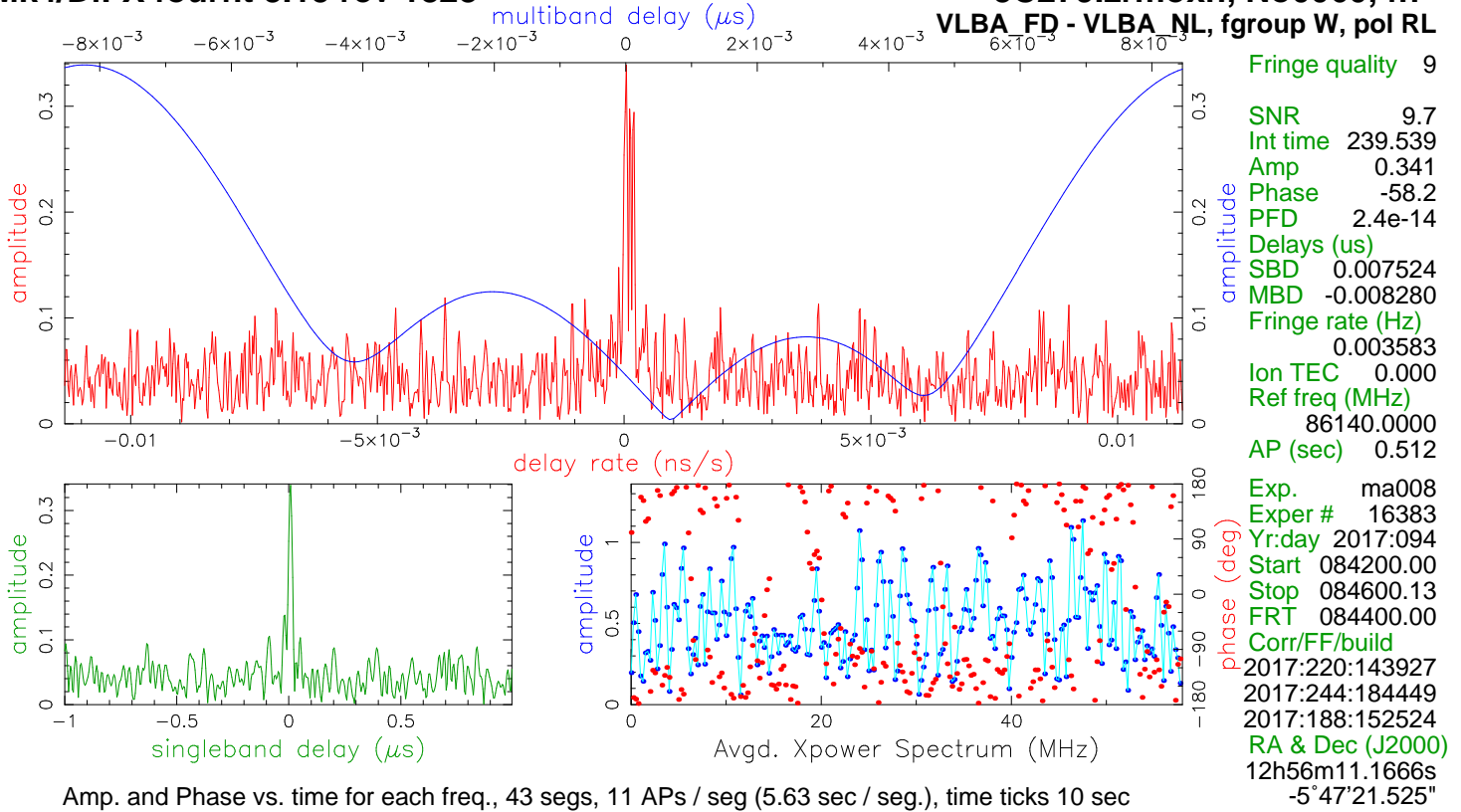


	86151.11	86209.70	86268.30	86326.89	86326.89	86326.89	All
Validity	0	0	0	0	0	0	0
pcal θ	0	0	0	0	0	0	0
f n	1000	1000	1000	1000	1000	1000	1000
f	W00UL	W01UL	W02UL	W03UL	W03UL	W03UL	W03UL
n	W00UR	W01UR	W02UR	W03UR	W03UR	W03UR	W03UR
86151.11	86209.70	86268.30	86326.89	86326.89	86326.89	86326.89	86326.89
-117.5	-119.3	-108.3	-136.7	-136.7	-136.7	-136.7	-117.2
0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.2
235.2	234.9	235.4	418.2	418.2	418.2	418.2	235.2
U/L 469/0	469/0	469/0	469/0	469/0	469/0	469/0	469/0
f 3890	296	1703	3109	3109	3109	3109	3109
n 3890	296	1703	3109	3109	3109	3109	3109
f:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
f:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
f 1000	1000	1000	1000	1000	1000	1000	1000
n 1000	1000	1000	1000	1000	1000	1000	1000
f W00UL	W01UL	W02UL	W03UL	W03UL	W03UL	W03UL	W03UL
n W00UR	W01UR	W02UR	W03UR	W03UR	W03UR	W03UR	W03UR

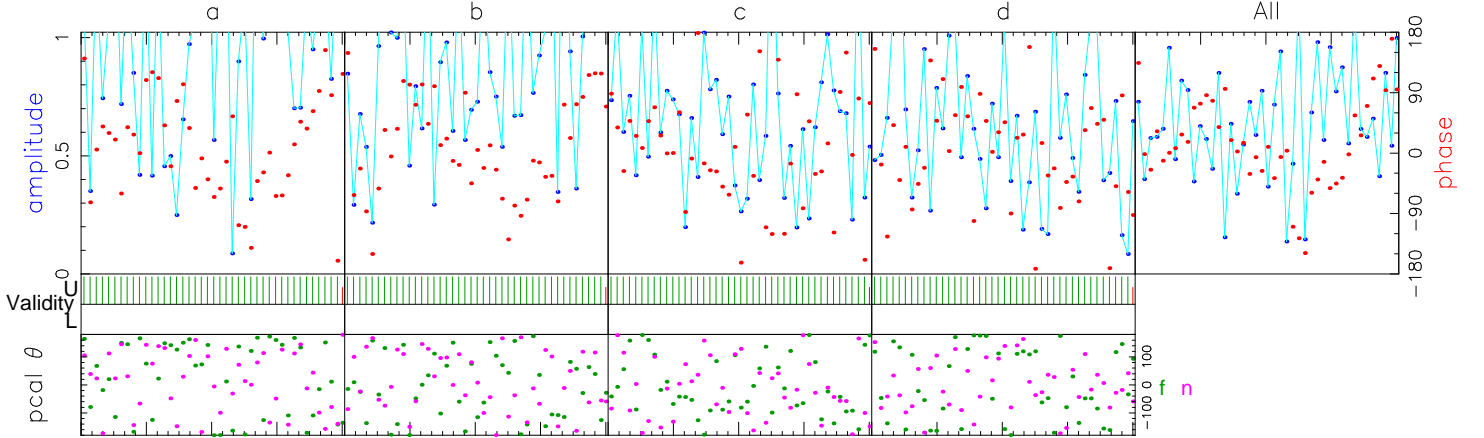
	86151.11	86209.70	86268.30	86326.89	86326.89	86326.89	All
Group delay (usec)(sbd)	4.31391128228E+03	4.31391279427E+03	4.31390314158E+03	4.31390314158E+03	4.31390314158E+03	4.31390314158E+03	4.31390314158E+03
Sband delay (usec)	4.31391279427E+03	4.31390313780E+03	4.31390313780E+03	4.31390313780E+03	4.31390313780E+03	4.31390313780E+03	4.31390313780E+03
Phase delay (usec)	4.31390313780E+03	1.34608400146E-01	1.34608205290E-01	1.34608205290E-01	1.34608205290E-01	1.34608205290E-01	1.34608205290E-01
Delay rate (us/s)	1.34608400146E-01	36.2	0.229	0.229	0.229	0.229	0.229
Total phase (deg)		36.2	0.229	0.229	0.229	0.229	0.229
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)							

	86151.11	86209.70	86268.30	86326.89	86326.89	86326.89	All
ph/seg (deg)	76.3	55.4	Search (1024X16)	0.229	0.229	0.229	0.229
amp/seg (%)	124.9	96.7	Interp.	0.000	0.000	0.000	0.000
ph/frq (deg)	15.2	16.9	Inc. seg. avg.	0.309	0.309	0.309	0.309
amp/frq (%)	38.4	29.5	Inc. frq. avg.	0.229	0.229	0.229	0.229

f: az 217.7 el 46.3 pa 32.4 n: az 225.2 el 31.3 pa 32.3 u,v (fr/asec) -790.036 -1207.763
Control file: cf_1234 Input file: /Exps/ma008/gvma_58_pc1/1234/No0060/fn..zrmoxn Output file: /Exps/ma008/gvma_58_pc1/1234/No0060/fn.W.51.zrmoxn



Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



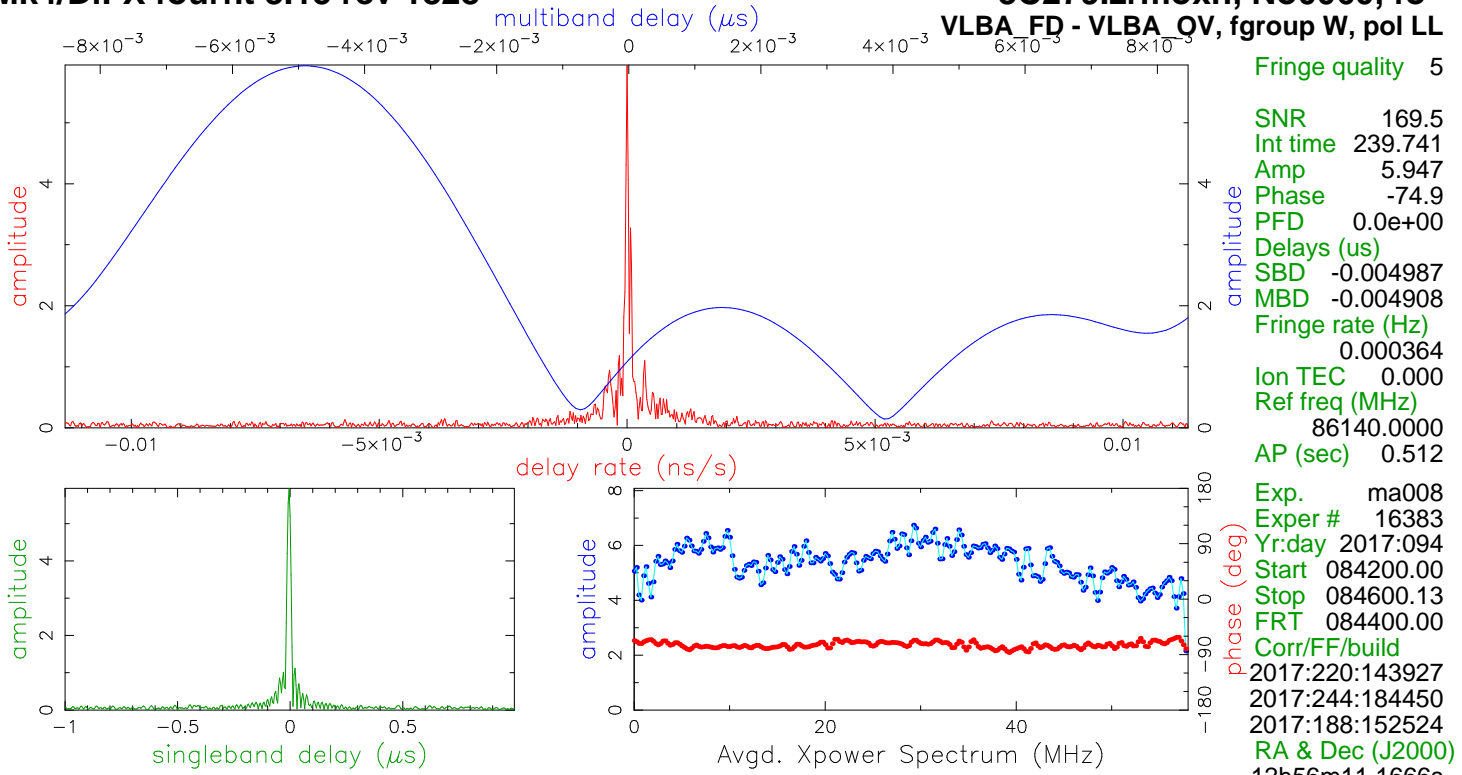
	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
3.8	18.3	7.4	10.0	10.0	Phase	10.1
0.4	0.4	0.3	0.3	0.3	Ampl.	0.3
235.2	235.0	233.8	234.8	234.8	Sbd box	234.7
U/L 469/0	469/0	469/0	469/0	469/0	APs used	
f 3890	296	1703	3109	3109	PC freqs	
n 3890	296	1703	3109	3109	PC freqs	
f:n 0:0	0:0	0:0	0:0	0:0	PC phase	
f:n 0:0	0:0	0:0	0:0	0:0	Mani PC	
f 1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000		
f W00UR	W01UR	W02UR	W03UR		Chan ids	
n W00UL	W01UL	W02UL	W03UL		Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	4.31391192795E+03	Apriori delay (usec)	4.31390314158E+03	Resid mbdelay (usec)	-8.28029E-03	+/-	2.5E-04
Sband delay (usec)	4.31391066599E+03	Apriori clock (usec)	-6.3197403E+00	Resid sbdelay (usec)	7.52441E-03	+/-	9.8E-04
Phase delay (usec)	4.31390314190E+03	Apriori clockrate (us/s)	-7.1775409E-07	Resid phdelay (usec)	3.25181E-07	+/-	3.8E-07
Delay rate (us/s)	1.34608246889E-01	Apriori rate (us/s)	1.34608205290E-01	Resid rate (us/s)	4.15994E-08	+/-	2.7E-09
Total phase (deg)	163.4	Apriori accel (us/s/s)	-2.11638113457E-05	Resid phase (deg)	-58.2	+/-	11.8

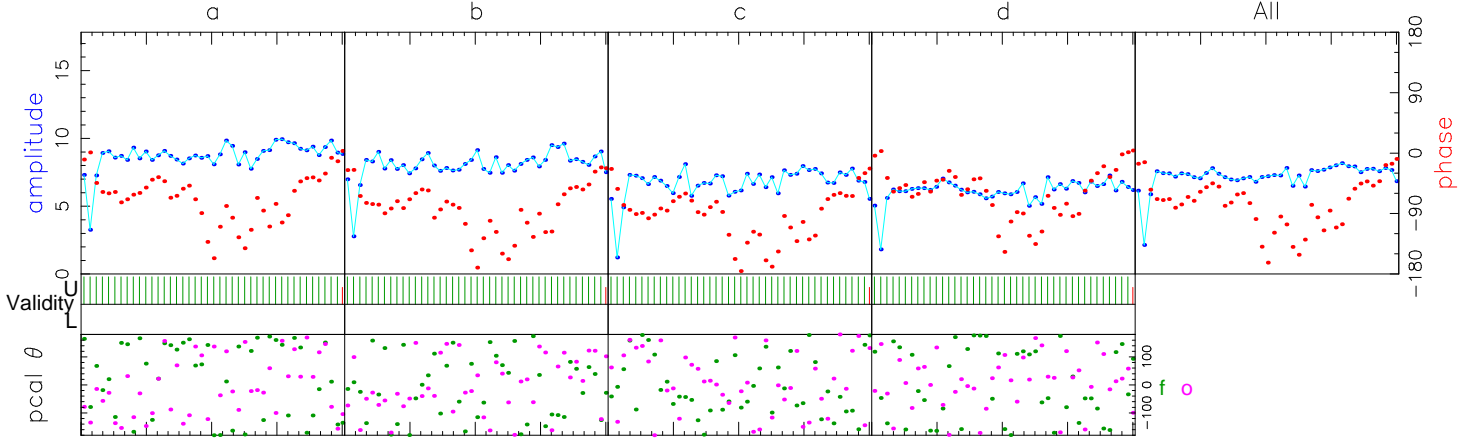
ph/seg (deg)	RMS 67.2	Theor. 38.7	Amplitude 0.341 +/- 0.035	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	113.0	67.5	Search (1024X16) 0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.009	0.009
ph/frq (deg)	7.6	11.8	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	18.3	20.6	Inc. seg. avg. 0.523	Sample rate(MSamp/s): 116		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 0.334	Data rate(Mb/s): 928	nlags: 232	t_cohere infinite		

f: az 217.7 el 46.3 pa 32.4 n: az 225.2 el 31.3 pa 32.3 u,v (fr/asec) -790.036 -1207.763 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fn..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fn.W52.zrmoxn



Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



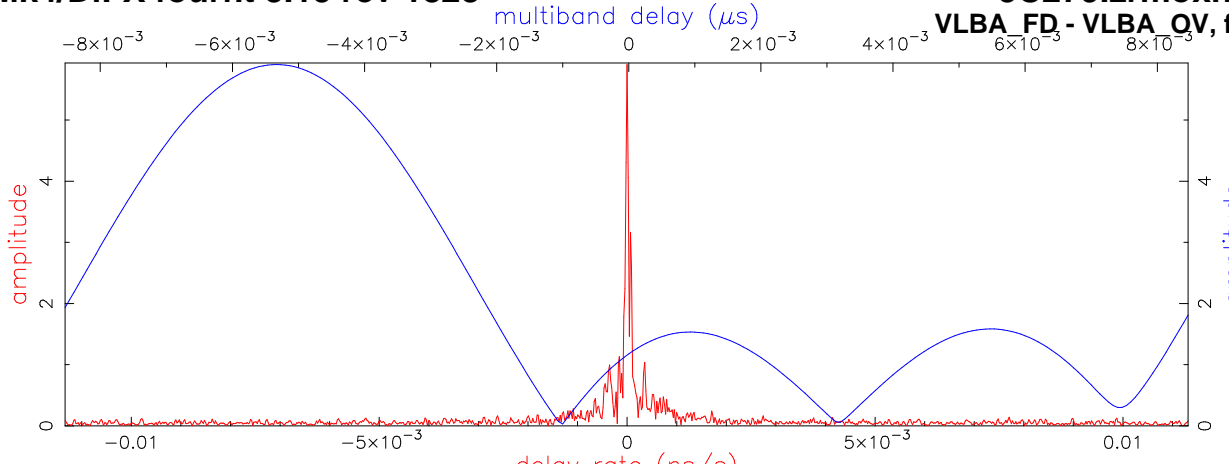
	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
	-65.5	-83.7	-92.2	-58.1	Phase	-74.9
	7.2	6.6	5.5	5.0	Ampl.	6.1
	231.5	231.8	232.1	232.2	Sbd box	231.8
U/L	469/0	469/0	469/0	469/0	APs used	
f	3890	296	1703	3109	PC freqs	
o	3890	296	1703	3109	PC freqs	
f:o	0:0	0:0	0:0	0:0	PC phase	
f:o	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	Chan ids	
o	W00UL	W01UL	W02UL	W03UL	Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	9.24986114236E+01	Apriori delay (usec)	9.25035193873E+01	Resid mbdelay (usec)	-4.90796E-03	+/-	1.4E-05
Sband delay (usec)	9.24985320770E+01	Apriori clock (usec)	-3.1187346E+00	Resid sbdelay (usec)	-4.98731E-03	+/-	5.6E-05
Phase delay (usec)	9.25035169706E+01	Apriori clockrate (us/s)	-6.8065150E-07	Resid phdelay (usec)	-2.41673E-06	+/-	2.2E-08
Delay rate (us/s)	-3.33959145951E-01	Apriori rate (us/s)	-3.33959150179E-01	Resid rate (us/s)	4.22867E-09	+/-	1.6E-10
Total phase (deg)		Apriori accel (us/s/s)	5.94357440565E-07	Resid phase (deg)	-74.9	+/-	0.7

ph/seg (deg)	RMS 36.7	Theor. 2.2	Amplitude 36.7	5.947 +/- 0.035	PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	26.4	3.9	Search (1024X16)	0.000	PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	19.3	0.7	Interp.	7.214	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	14.4	1.2	Inc. seg. avg.	6.093	Sample rate(MSamp/s): 116	mb window (us) -0.009 0.009
			Inc. frq. avg.		Data rate(Mb/s): 928	dr window (ns/s) -0.011 0.011
					nlags: 232	t_cohere infinite
						ion window (TEC) 0.00 0.00

f: az 217.7 el 46.3 pa 32.4 o: az 195.5 el 45.7 pa 12.8 u,v (fr/asec) 1922.649 -844.590 simultaneous interpolator

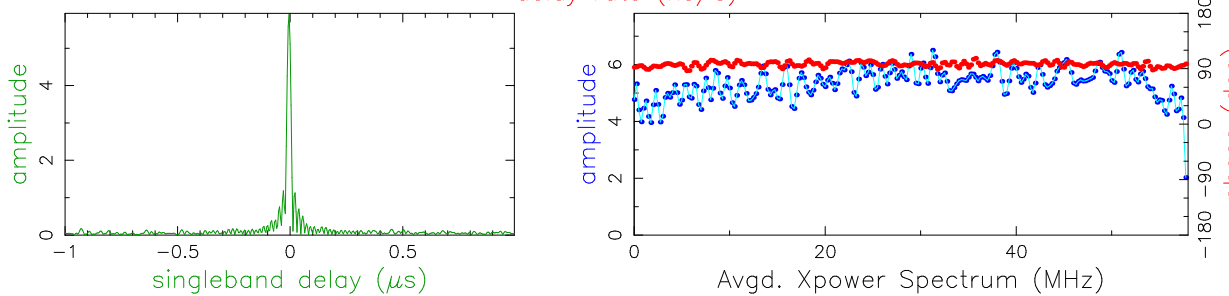
Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fo..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fo.W.53.zrmoxn



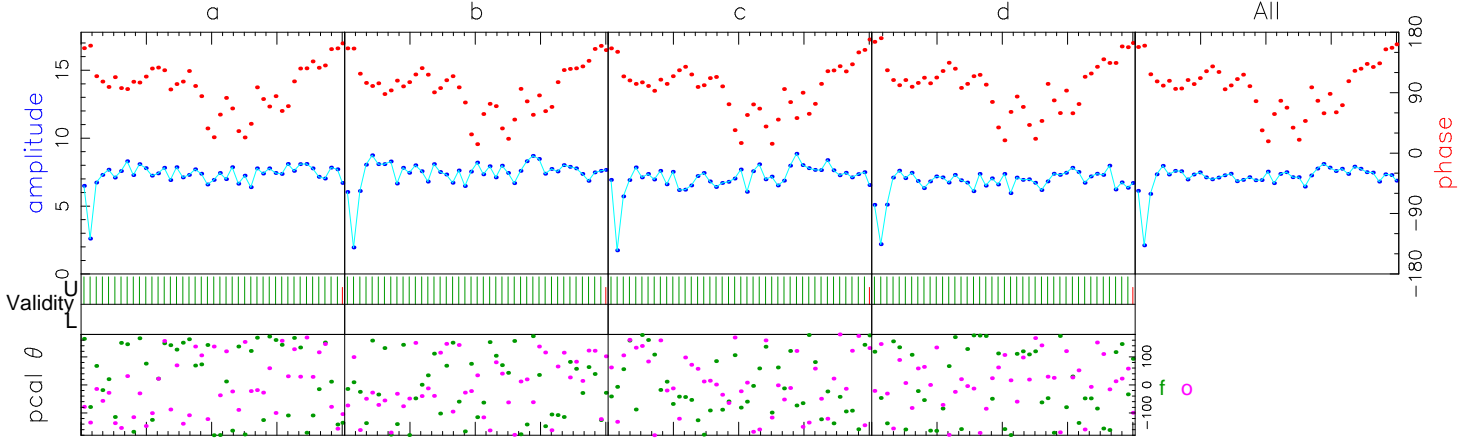
Fringe quality 6

SNR 169.1
Int time 239.741
Amp 5.934
Phase 98.5
PFD 0.0e+00
Delays (us)
SBD -0.005229
MBD -0.005346
Fringe rate (Hz) 0.000342
Ion TEC 0.000
Ref freq (MHz) 86140.000
AP (sec) 0.512

Exp. ma008
Exper # 16383
Yr:day 2017:094
Start 084200.00
Stop 084600.13
FRT 084400.00
Corr/FF/build
2017:220:143927
2017:244:184451
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"



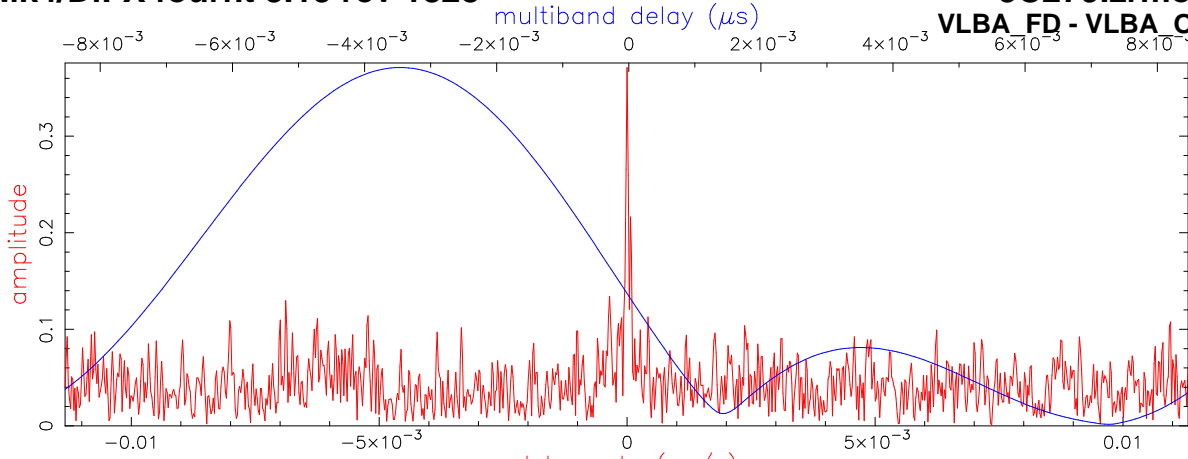
Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



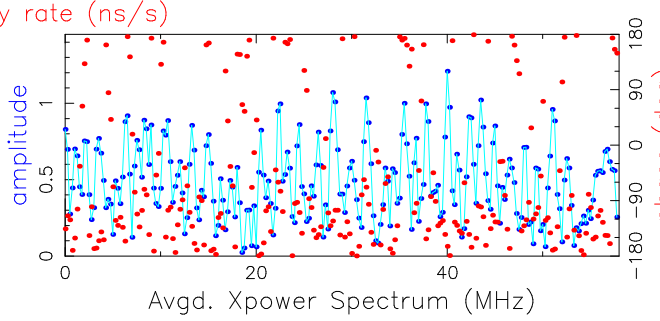
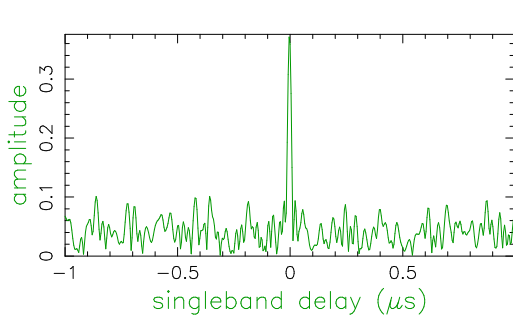
	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
U/L	469/0	469/0	469/0	469/0	469/0	231.8
f	3890	296	1703	3109	3109	
o	3890	296	1703	3109	3109	
f:0	0:0	0:0	0:0	0:0	0:0	
f:0	0:0	0:0	0:0	0:0	0:0	
f	1000	1000	1000	1000	1000	
o	1000	1000	1000	1000	1000	
f	W00UR	W01UR	W02UR	W03UR	W03UR	
o	W00UR	W01UR	W02UR	W03UR	W03UR	

Group delay (usec)(sbd)	9.24981737660E+01	Apriori delay (usec)	9.25035193873E+01	Resid mbdelay (usec)	-5.34562E-03	+/- 1.4E-05
Sband delay (usec)	9.24982904218E+01	Apriori clock (usec)	-3.1187346E+00	Resid sbdelay (usec)	-5.22897E-03	+/- 5.6E-05
Phase delay (usec)	9.25035225632E+01	Apriori clockrate (us/s)	-6.8065150E-07	Resid phdelay (usec)	3.17588E-06	+/- 2.2E-08
Delay rate (us/s)	-3.33959146211E-01	Apriori rate (us/s)	-3.33959150179E-01	Resid rate (us/s)	3.96792E-09	+/- 1.6E-10
Total phase (deg)	156.1	Apriori accel (us/s/s)	5.94357440565E-07	Resid phase (deg)	98.5	+/- 0.7

ph/seg (deg)	36.0	Theor.	2.2	Amplitude	5.934 +/- 0.035	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	25.2	Search (1024X16)	0.000	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
ph/frq (deg)	2.9	Inc. seg. avg.	7.127	Inc. seg. avg.	7.127	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	3.9	Inc. frq. avg.	5.912	Inc. frq. avg.	5.912	Sample rate(MSamp/s): 116	mb window (us) -0.009 0.009
						Data rate(Mb/s): 928	dr window (ns/s) -0.011 0.011
						nlags: 232	ion window (TEC) 0.00 0.00

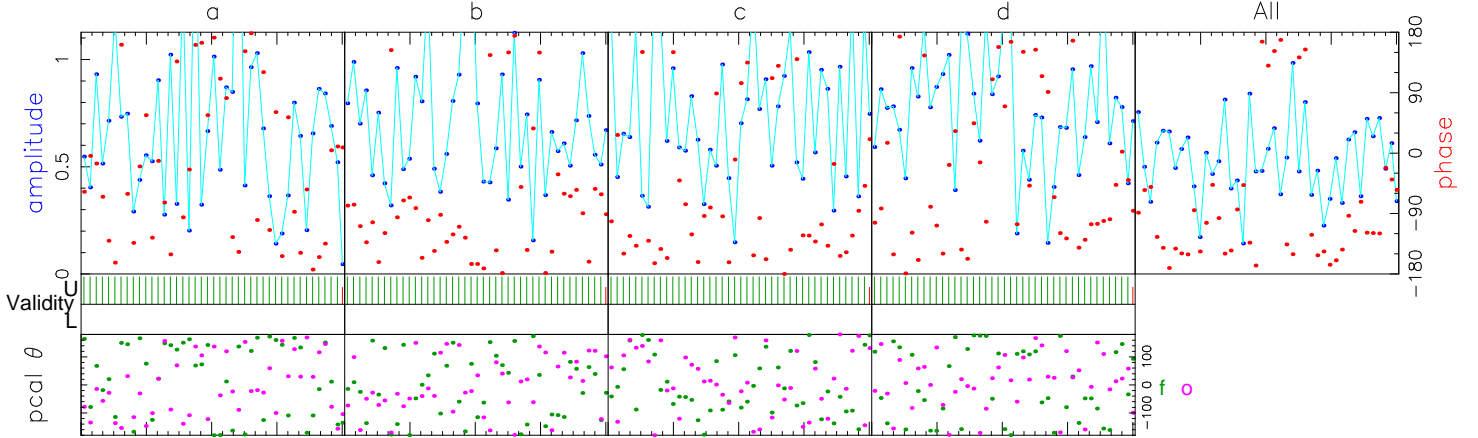


Fringe quality 9
 SNR 10.7
 Int time 239.741
 Amp 0.376
 Phase -132.2
 PFD 9.2e-19
 Delays (us)
 SBD -0.002824
 MBD -0.003438
 Fringe rate (Hz)
 -0.000124
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. ma008
 Exper # 16383
 Yr:day 2017:094
 Start 084200.00
 Stop 084600.13
 FRT 084400.00
 Corr/FF/build
 2017:220:143927
 2017:244:184452
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"



Avgd. Xpower Spectrum (MHz)

Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



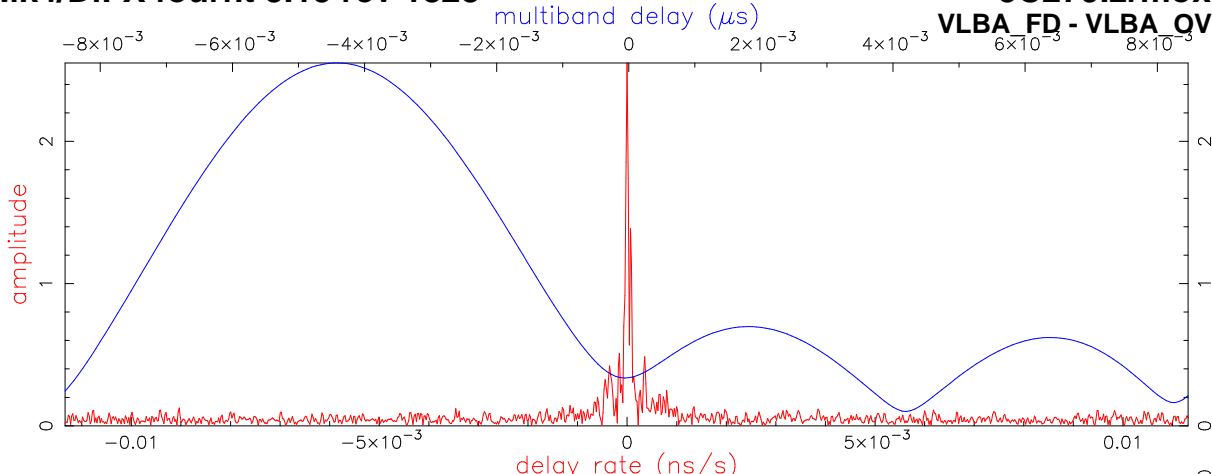
	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
	-140.8	-121.9	-139.1	-131.5	Phase	-132.2
	0.2	0.5	0.5	0.3	Ampl.	0.4
	151.4	232.6	232.1	232.7	Sbd box	232.3
U/L	469/0	469/0	469/0	469/0	APs used	
f	3890	296	1703	3109	PC freqs	
o	3890	296	1703	3109	PC freqs	
f:o	0:0	0:0	0:0	0:0	PC phase	
f:o	0:0	0:0	0:0	0:0	Mani PC	
f	1000	1000	1000	1000	PC amp	
o	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	Chan ids	
o	W00UR	W01UR	W02UR	W03UR	Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	9.25000814097E+01	Apriori delay (usec)	9.25035193873E+01	Resid mbdelay (usec)	-3.43798E-03	+/-	2.3E-04
Sband delay (usec)	9.25006953873E+01	Apriori clock (usec)	-3.1187346E+00	Resid sbdelay (usec)	-2.82400E-03	+/-	8.9E-04
Phase delay (usec)	9.25035151236E+01	Apriori clockrate (us/s)	-6.8065150E-07	Resid phdelay (usec)	-4.26371E-06	+/-	3.4E-07
Delay rate (us/s)	-3.33959151620E-01	Apriori rate (us/s)	-3.33959150179E-01	Resid rate (us/s)	-1.44121E-09	+/-	2.5E-09
Total phase (deg)	-74.6	Apriori accel (us/s/s)	5.94357440565E-07	Resid phase (deg)	-132.2	+/-	10.7

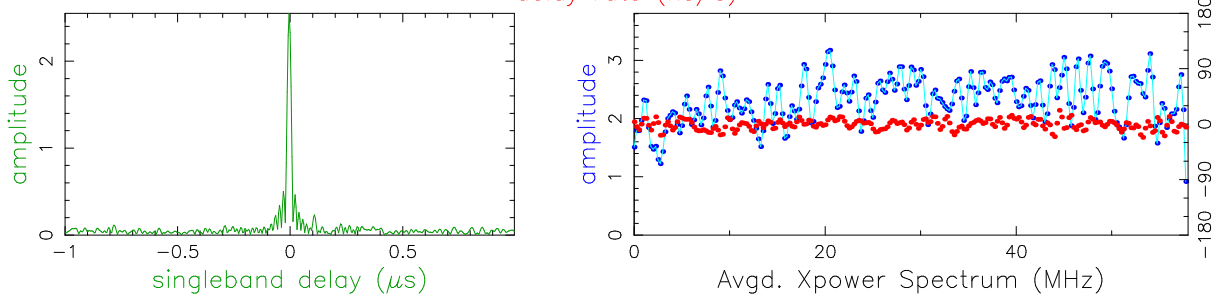
ph/seg (deg)	RMS 50.5	Theor. 35.1	Amplitude 0.376 +/- 0.035	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	63.4	61.2	Search (1024X16) 0.369	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.009	0.009
ph/frq (deg)	10.7	10.7	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	27.6	18.7	Inc. seg. avg. 0.450	Sample rate(MSamp/s): 116		ion window (TEC)	0.00	0.00
			Inc. frq. avg. 0.368	Data rate(Mb/s): 928	nlags: 232	t_cohere infinite		

f: az 217.7 el 46.3 pa 32.4 o: az 195.5 el 45.7 pa 12.8 u,v (fr/asec) 1922.649 -844.590 simultaneous interpolator

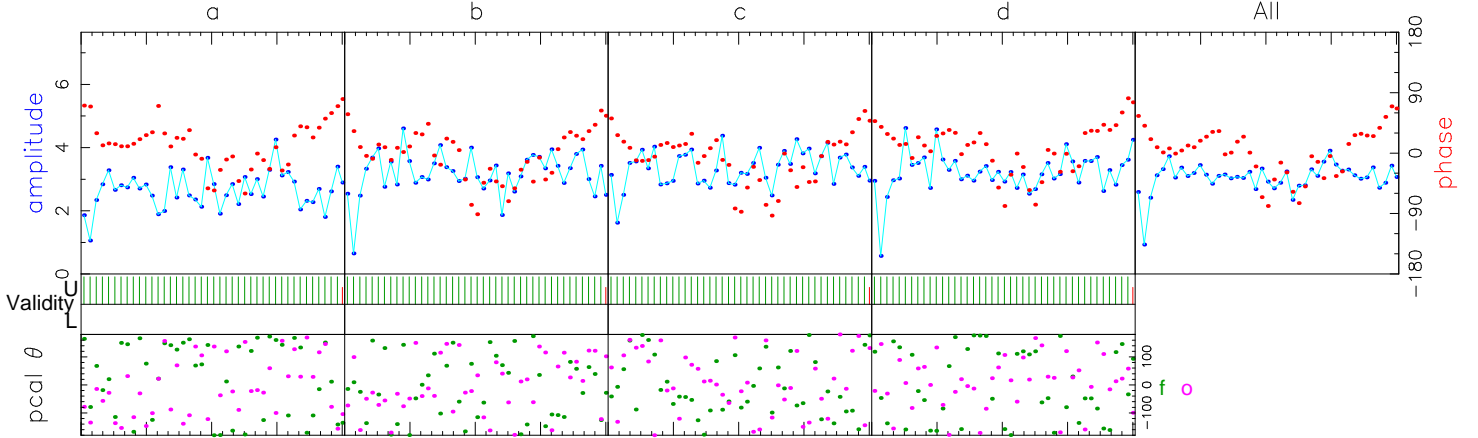
Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fo..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fo.W.55.zrmoxn



Fringe quality 6
 SNR 72.7
 Int time 239.741
 Amp 2.551
 Phase 2.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.004151
 MBD -0.004413
 Fringe rate (Hz) 0.000343
 Ion TEC 0.000
 Ref freq (MHz) 86140.000
 AP (sec) 0.512
 Exp. ma008
 Exper # 16383
 Yr:day 2017:094
 Start 084200.00
 Stop 084600.13
 FRT 084400.00
 Corr/FF/build
 2017:220:143927
 2017:244:184452
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

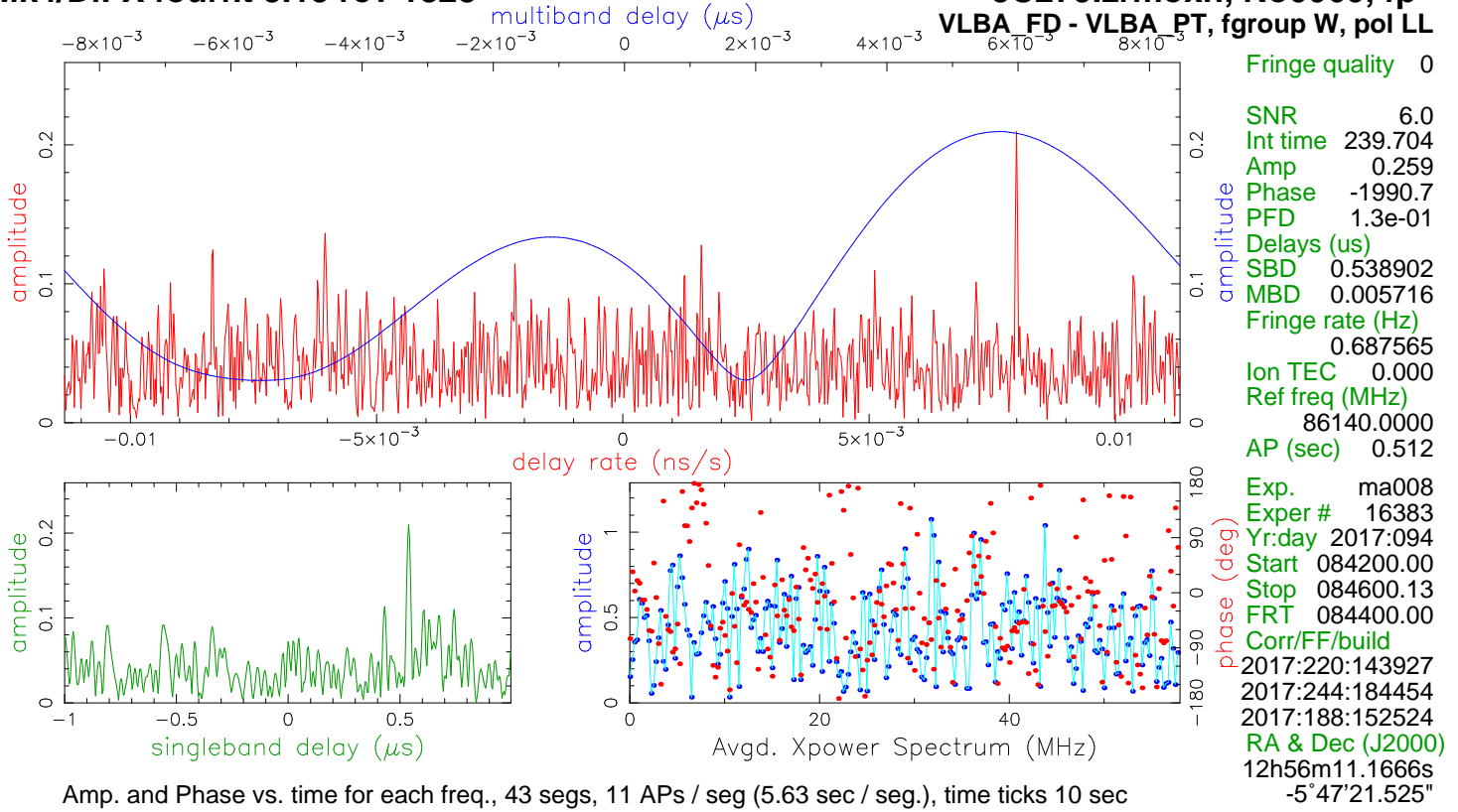


Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec

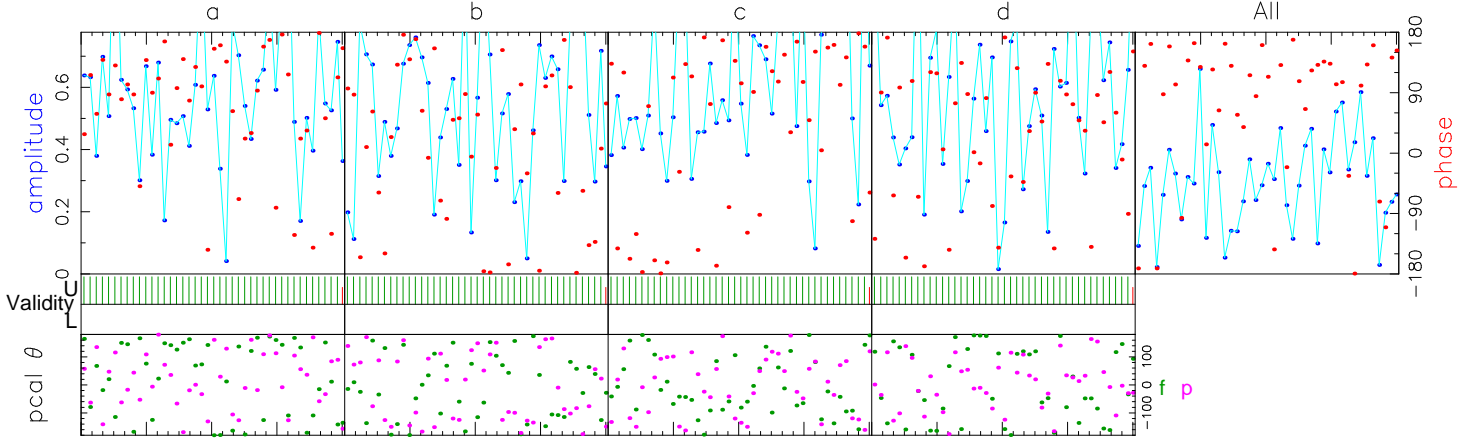


	86151.11	86209.70	86268.30	86326.89	86326.89	86326.89	All
Validity	10.5	-3.2	-6.9	10.2	10.2	10.2	2.3
pcal θ	2.2	2.6	2.7	2.7	2.7	2.7	2.6
	232.0	232.0	231.9	232.2	232.2	232.2	232.0
U/L	469/0	469/0	469/0	469/0	469/0	469/0	
f	3890	296	1703	3109	3109	3109	
o	3890	296	1703	3109	3109	3109	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	
f:o	0:0	0:0	0:0	0:0	0:0	0:0	
f	1000	1000	1000	1000	1000	1000	
o	1000	1000	1000	1000	1000	1000	
f	W00UR	W01UR	W02UR	W03UR	W03UR	W03UR	
o	W00UL	W01UL	W02UL	W03UL	W03UL	W03UL	
Group delay (usec)(sbd)	9.24991062886E+01	Apriori delay (usec)	9.25035193873E+01	Resid mbdelay (usec)	-4.41310E-03	+/-	3.3E-05
Sband delay (usec)	9.24993679390E+01	Apriori clock (usec)	-3.1187346E+00	Resid sbdelay (usec)	-4.15145E-03	+/-	1.3E-04
Phase delay (usec)	9.25035194616E+01	Apriori clockrate (us/s)	-6.8065150E-07	Resid phdelay (usec)	7.42684E-08	+/-	5.1E-08
Delay rate (us/s)	-3.33959146196E-01	Apriori rate (us/s)	-3.33959150179E-01	Resid rate (us/s)	3.98351E-09	+/-	3.7E-10
Total phase (deg)	59.9	Apriori accel (us/s/s)	5.94357440565E-07	Resid phase (deg)	2.3	+/-	1.6

RMS Theor. Amplitude 2.551 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 35.1 5.2 Search (1024X16) 2.519 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 26.5 9.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.009 0.009
 ph/frq (deg) 11.0 1.6 Inc. seg. avg. 3.041 Sample rate(MSamp/s): 116 Data rate(Mb/s): 928 nlags: 232 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 7.8 2.8 Inc. frq. avg. 2.574 simultaneous interpolator



Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



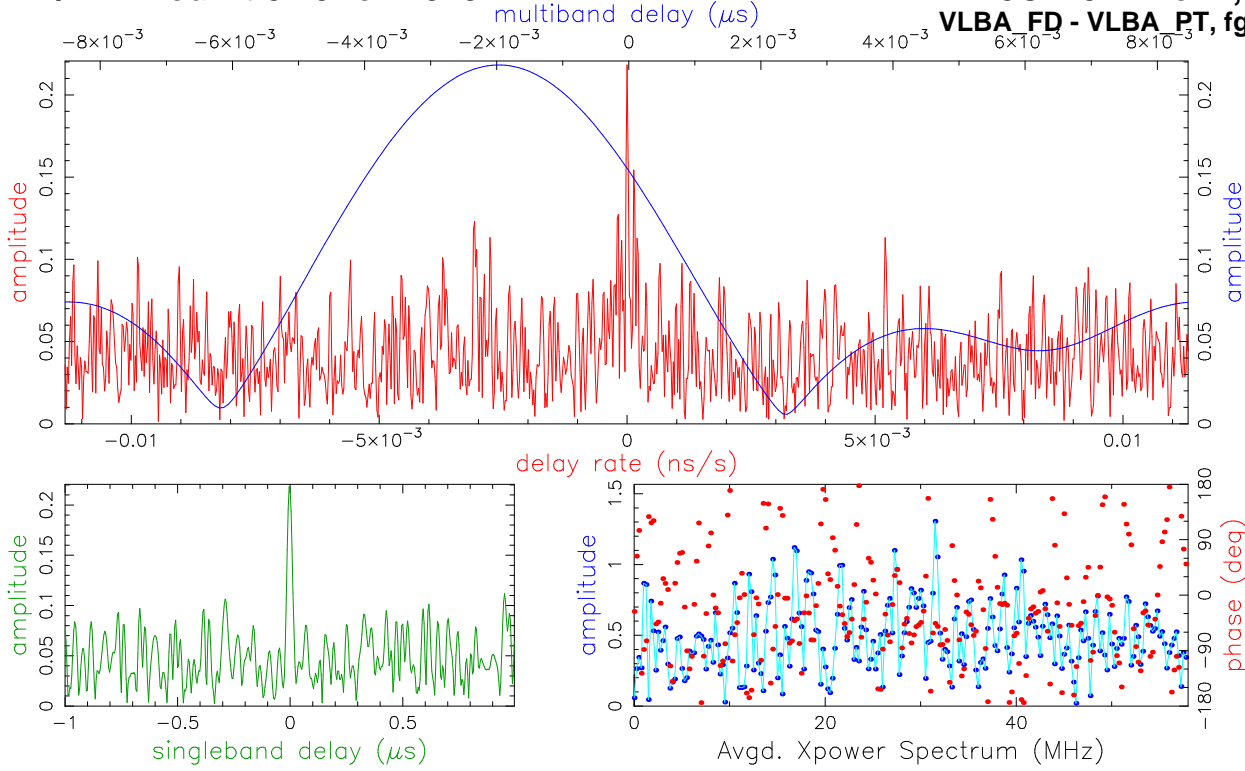
	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
	117.4	128.2	146.7	90.2	Phase	125.2
	0.4	0.2	0.4	0.2	Ampl.	0.3
	358.0	332.7	357.6	89.6	Sbd box	358.0
U/L	469/0	469/0	469/0	469/0	APs used	
f	3890	296	1703	3109	PC freqs	
p	3890	296	1703	3109	PC freqs	
f:p	0:0	0:0	0:0	0:0	PC phase	
f:p	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	2.56004016747E+02	Apriori delay (usec)	2.55469234389E+02	Resid mbdelay (usec)	5.71569E-03	+/-	4.1E-04
Sband delay (usec)	2.56008136458E+02	Apriori clock (usec)	-3.3032441E+00	Resid sbdelay (usec)	5.38902E-01	+/-	1.6E-03
Phase delay (usec)	2.55469238427E+02	Apriori clockrate (us/s)	-6.8734227E-07	Resid phdelay (usec)	4.03778E-06	+/-	6.2E-07
Delay rate (us/s)	-1.08026503039E-01	Apriori rate (us/s)	-1.08034484986E-01	Resid rate (us/s)	7.98195E-06	+/-	4.5E-09
Total phase (deg)	-2044.6	Apriori accel (us/s/s)	-7.51655872162E-07	Resid phase (deg)	-1990.7	+/-	19.2

ph/seg (deg)	64.2	Theor.	62.9	Amplitude	0.259 +/- 0.043	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	83.5	Search (1024X16)	0.193	Interp.	0.000	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000
ph/frq (deg)	29.7	Inc. seg. avg.	0.231	Inc. frq. avg.	0.260	Bits/sample:	2x2	SampCntNorm:	enabled
amp/frq (%)	43.8	Inc. frq. avg.	0.260			Sample rate(MSamp/s):	116	mb window (us)	-0.009 0.009
						Data rate(Mb/s):	928	dr window (ns/s)	-0.011 0.011
						nlags:	232	ion window (TEC)	0.00 0.00

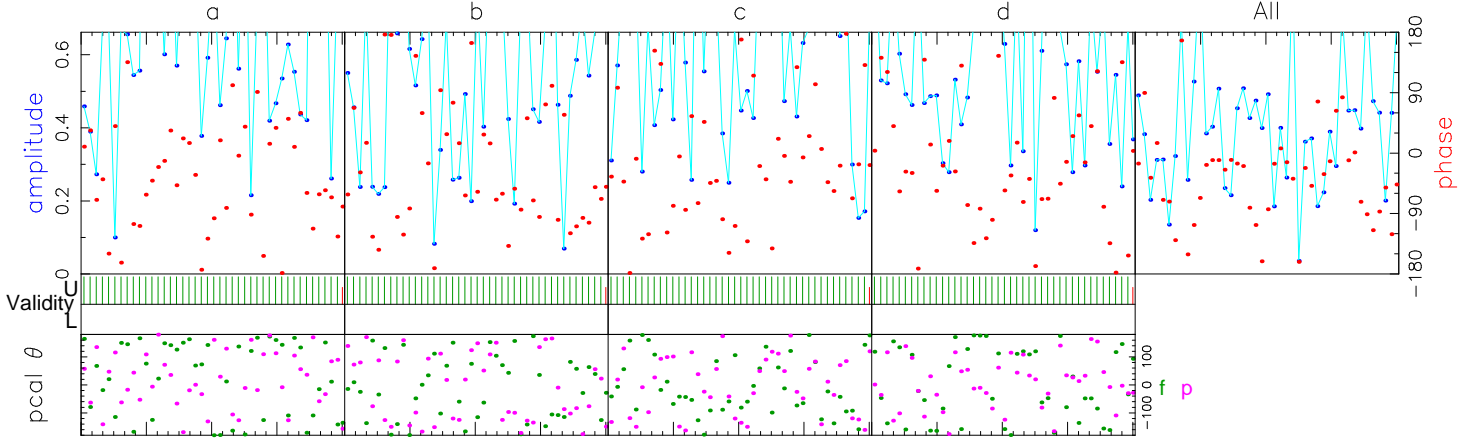
f: az 217.7 el 46.3 pa 32.4 p: az 210.3 el 45.2 pa 25.3 u,v (fr/asec) 621.229 -469.559 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fp..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fp.W.57.zrmoxn



Fringe quality 0
 SNR 6.3
 Int time 239.704
 Amp 0.221
 Phase -47.8
 PFD 2.0e-02
 Delays (us)
 SBD -0.002357
 MBD -0.001913
 Fringe rate (Hz) 0.000449
 Ion TEC 0.000
 Ref freq (MHz) 86140.000
 AP (sec) 0.512
 Exp. ma008
 Exper # 16383
 Yr:day 2017:094
 Start 084200.00
 Stop 084600.13
 FRT 084400.00
 Corr/FF/build
 2017:220:143927
 2017:244:184454
 2017:188:152524
 RA & Dec (J2000)
 12h56m11.1666s
 -5°47'21.525"

Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



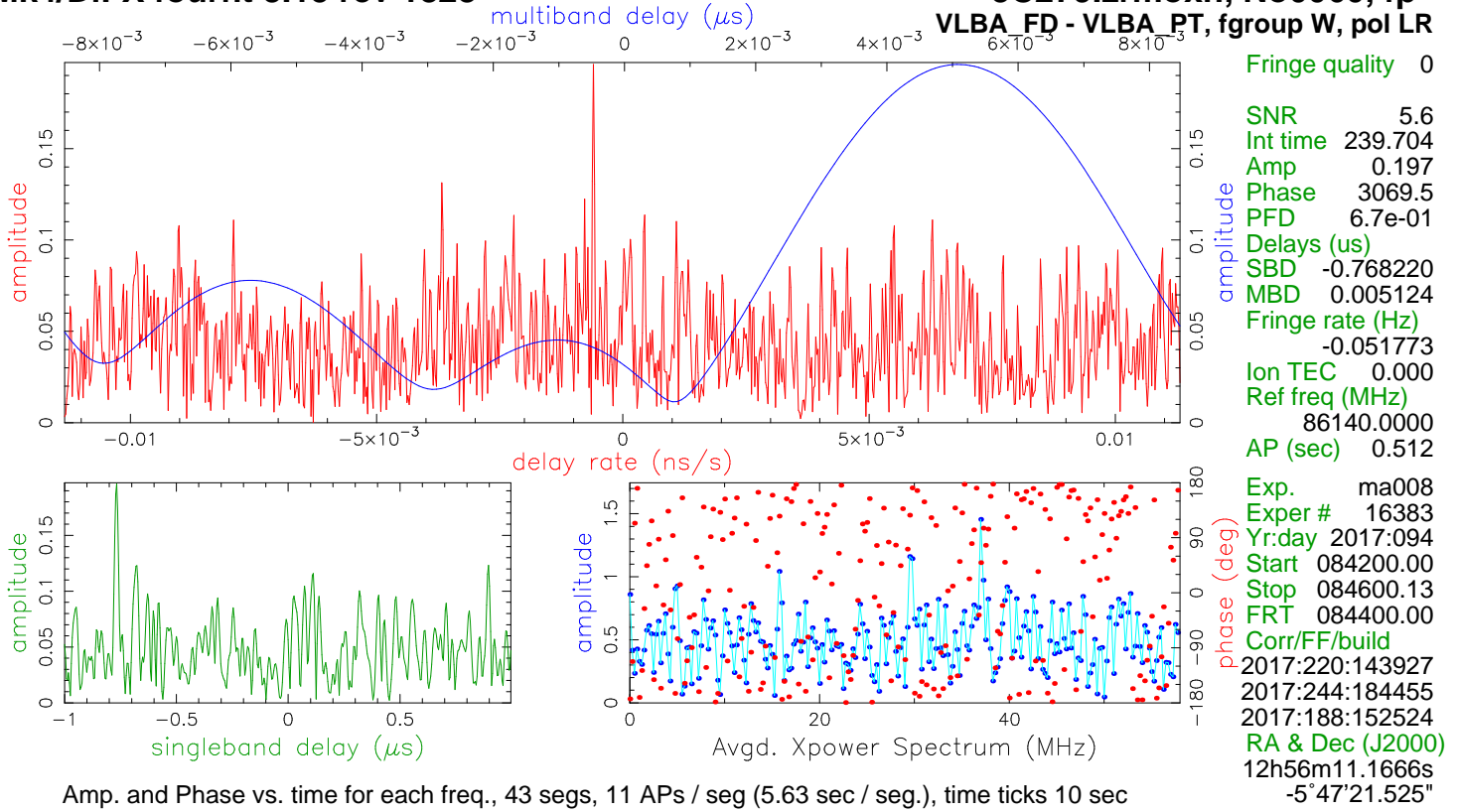
				Freq (MHz)	All
				86151.11	-47.8
				86209.70	0.2
				86268.30	0.2
				86326.89	232.5
U/L	469/0	453.5	232.6	234.7	
f	3890	296	1703	1703	
p	3890	296	1703	3109	
f:p	0:0	0:0	0:0	0:0	
f:p	0:0	0:0	0:0	0:0	
f	1000	1000	1000	1000	
p	1000	1000	1000	1000	
f	W00UR	W01UR	W02UR	W03UR	
p	W00UR	W01UR	W02UR	W03UR	

Group delay (usec)(sbd)	2.55467321420E+02	Apriori delay (usec)	2.55469234389E+02	Resid mbdelay (usec)	-1.91297E-03	+/- 3.9E-04
Sband delay (usec)	2.55466877699E+02	Apriori clock (usec)	-3.3032441E+00	Resid sbdelay (usec)	-2.35669E-03	+/- 1.5E-03
Phase delay (usec)	2.55469232848E+02	Apriori clockrate (us/s)	-6.8734227E-07	Resid phdelay (usec)	-1.54064E-06	+/- 5.9E-07
Delay rate (us/s)	-1.08034479772E-01	Apriori rate (us/s)	-1.08034484986E-01	Resid rate (us/s)	5.21357E-09	+/- 4.2E-09
Total phase (deg)	258.3	Apriori accel (us/s/s)	-7.51655872162E-07	Resid phase (deg)	-47.8	+/- 18.2

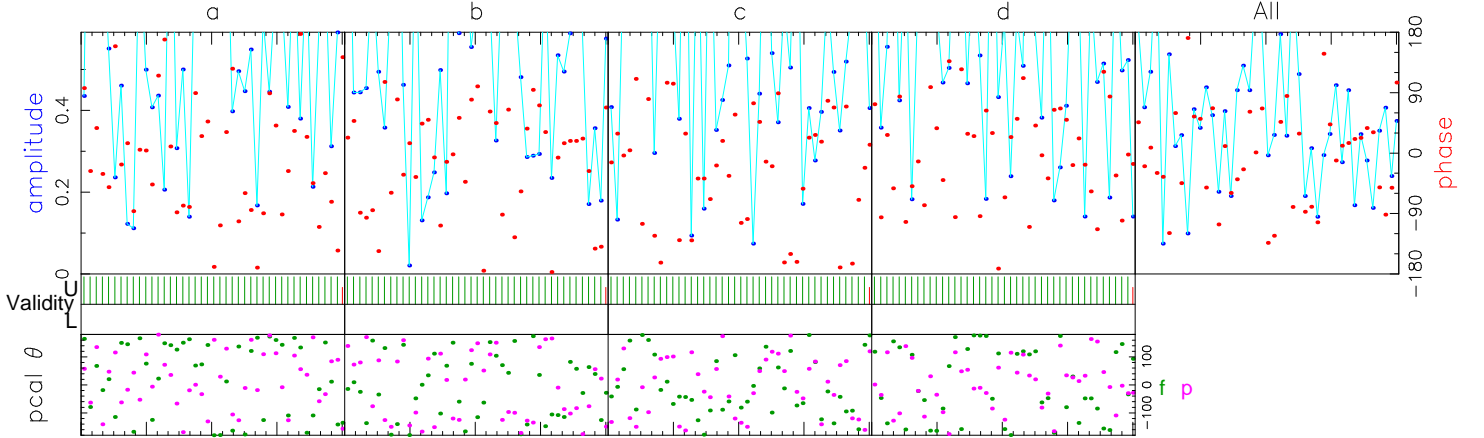
ph/seg (deg)	RMS 64.3	Theor. 59.8	Amplitude Search (1024X16)	0.221 +/- 0.035	0.217	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	116.9	104.3	Interp.	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.009	0.009
ph/frq (deg)	8.0	18.2	Inc. seg. avg.	0.263	0.209	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	19.7	31.8	Inc. frq. avg.	0.209	0.209	Sample rate(MSamp/s): 116		ion window (TEC)	0.00	0.00
						Data rate(Mb/s): 928	nlags: 232	t_cohere infinite		

f: az 217.7 el 46.3 pa 32.4 p: az 210.3 el 45.2 pa 25.3 u,v (fr/asec) 621.229 -469.559 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fp..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fp.W.58.zrmoxn



Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
	-12.3	11.2	1.7	-10.2	Phase	-2.0
	0.2	0.2	0.2	0.2	Ampl.	0.2
	34.4	54.7	249.8	56.1	Sbd box	54.8
U/L	469/0	469/0	469/0	469/0	APs used	
f	3890	296	1703	3109	PC freqs	
p	3890	296	1703	3109	PC freqs	
f:p	0:0	0:0	0:0	0:0	PC phase	
f:p	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000		
f	W00UL	W01UL	W02UL	W03UL	Chan ids	
p	W00UR	W01UR	W02UR	W03UR	Tracks	
					Chan ids	
					Tracks	
Group delay (usec)(sbd)	2.54706358235E+02	Apriori delay (usec)	2.55469234389E+02	Resid mbdelay (usec)	5.12385E-03	+/- 4.3E-04
Sband delay (usec)	2.54701014251E+02	Apriori clock (usec)	-3.3032441E+00	Resid sbdelay (usec)	-7.68220E-01	+/- 1.7E-03
Phase delay (usec)	2.55469234324E+02	Apriori clockrate (us/s)	-6.8734227E-07	Resid phdelay (usec)	-6.44542E-08	+/- 6.6E-07
Delay rate (us/s)	-1.08035086014E-01	Apriori rate (us/s)	-1.08034484986E-01	Resid rate (us/s)	-6.01028E-07	+/- 4.7E-09
Total phase (deg)	3375.6	Apriori accel (us/s/s)	-7.51655872162E-07	Resid phase (deg)	3069.5	+/- 20.4

RMS Theor. Amplitude 0.197 +/- 0.035 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

ph/seg (deg) 70.7 66.9 Search (1024X16) 0.192 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000

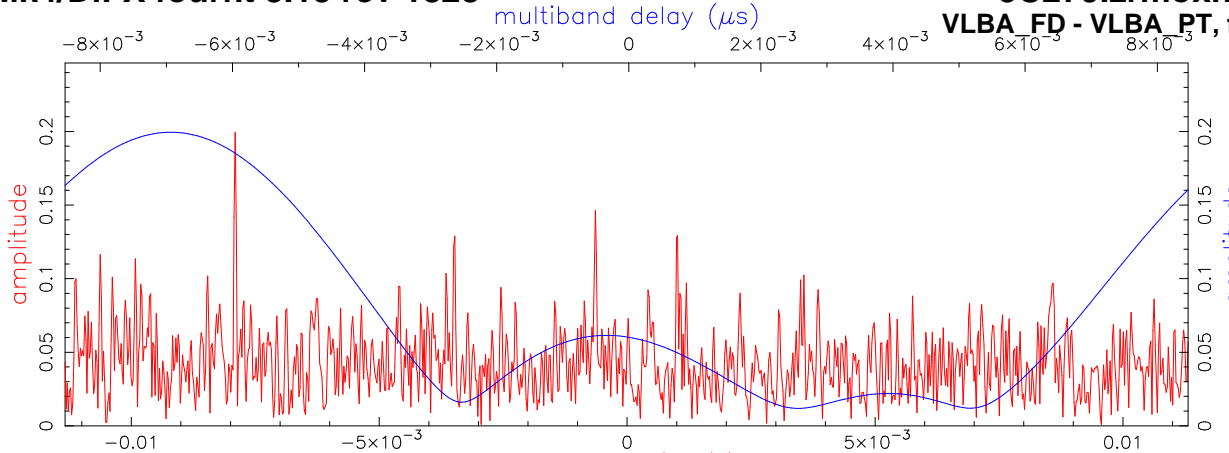
amp/seg (%) 125.9 116.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.009 0.009

ph/frq (deg) 13.5 20.4 Inc. seg. avg. 0.227 Sample rate(MSamp/s): 116 dr window (ns/s) -0.011 0.011

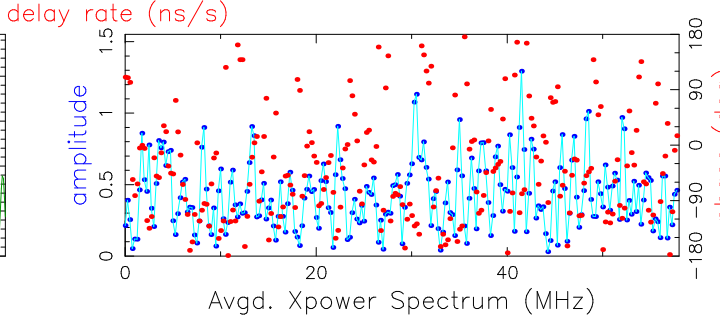
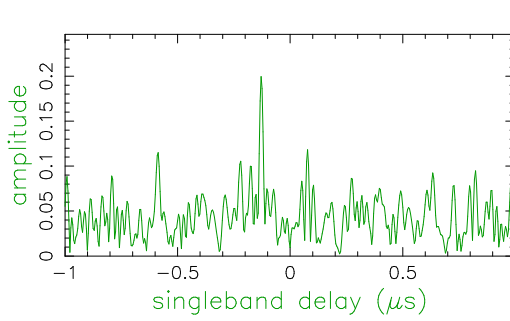
amp/frq (%) 15.6 35.6 Inc. frq. avg. 0.187 Data rate(Mb/s): 928 nlags: 232 t_cohere infinite ion window (TEC) 0.00 0.00

f: az 217.7 el 46.3 pa 32.4 p: az 210.3 el 45.2 pa 25.3 u,v (fr/asec) 621.229 -469.559 simultaneous interpolator

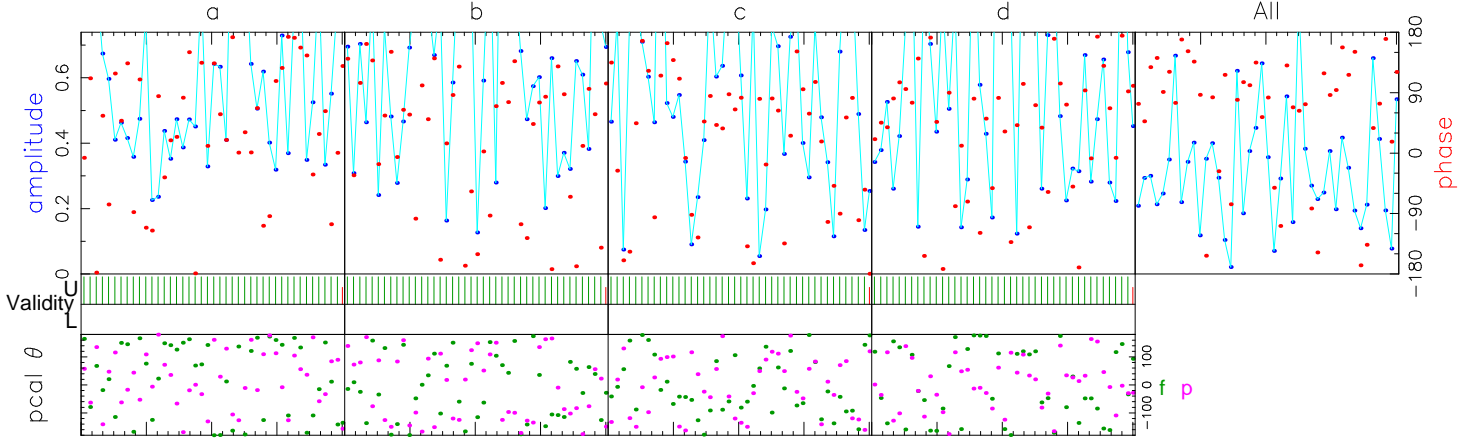
Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fp..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fp.W.59.zrmoxn



Fringe quality 0
SNR 5.7
Int time 239.704
Amp 0.247
Phase 578.5
PFD 4.8e-01
Delays (us)
SBD -0.128579
MBD -0.006939
Fringe rate (Hz)
-0.681244
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512
Exp. ma008
Exper # 16383
Yr:day 2017:094
Start 084200.00
Stop 084600.13
FRT 084400.00
Corr/FF/build
2017:220:143927
2017:244:184456
2017:188:152524
RA & Dec (J2000)
12h56m11.1666s
-5°47'21.525"



Amp. and Phase vs. time for each freq., 43 segs, 11 APs / seg (5.63 sec / seg.), time ticks 10 sec



	86151.11	86209.70	86268.30	86326.89	Freq (MHz)	All
U/L	469/0	469/0	469/0	469/0		
f	3890	296	1703	3109	APs used	
p	3890	296	1703	3109	PC freqs	
f:p	0:0	0:0	0:0	0:0	PC phase	
f:p	0:0	0:0	0:0	0:0	Manl PC	
f	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000		
f	W00UR	W01UR	W02UR	W03UR	Chan ids	
p	W00UL	W01UL	W02UL	W03UL	Tracks	
					Chan ids	
					Tracks	

Group delay (usec)(sbd)	2.55342829194E+02	Apriori delay (usec)	2.55469234389E+02	Resid mbdelay (usec)	-6.93853E-03	+/- 4.3E-04
Sband delay (usec)	2.55340655354E+02	Apriori clock (usec)	-3.3032441E+00	Resid sbdelay (usec)	-1.28579E-01	+/- 1.7E-03
Phase delay (usec)	2.55469237637E+02	Apriori clockrate (us/s)	-6.8734227E-07	Resid phdelay (usec)	3.24803E-06	+/- 6.5E-07
Delay rate (us/s)	-1.08042393556E-01	Apriori rate (us/s)	-1.08034484986E-01	Resid rate (us/s)	-7.90857E-06	+/- 4.7E-09
Total phase (deg)	524.6	Apriori accel (us/s/s)	-7.51655872162E-07	Resid phase (deg)	578.5	+/- 20.1

ph/seg (deg)	RMS 71.9	Theor. 65.9	Amplitude Search (1024X16)	0.247 +/- 0.043	0.193	0.193	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000	
amp/seg (%)	107.6	115.0	Interp.	0.000	0.000	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.009	0.009	
ph/frq (deg)	10.7	20.1	Inc. seg. avg.	0.239	0.239	0.239	Bits/sample: 2x2	Sample rate(MSamp/s): 116	dr window (ns/s)	-0.011	0.011	
amp/frq (%)	17.4	35.1	Inc. frq. avg.	0.234	0.234	0.234	Data rate(Mb/s): 928	nlags: 232	t_cohere infinite	ion window (TEC)	0.00	0.00

f: az 217.7 el 46.3 pa 32.4 p: az 210.3 el 45.2 pa 25.3 u,v (fr/asec) 621.229 -469.559 simultaneous interpolator
Control file: cf_1234 Input file: /Exps/ma008/gmva_58_pc1/1234/No0060/fp..zrmoxn Output file: /Exps/ma008/gmva_58_pc1/1234/No0060/fp.W.60.zrmoxn