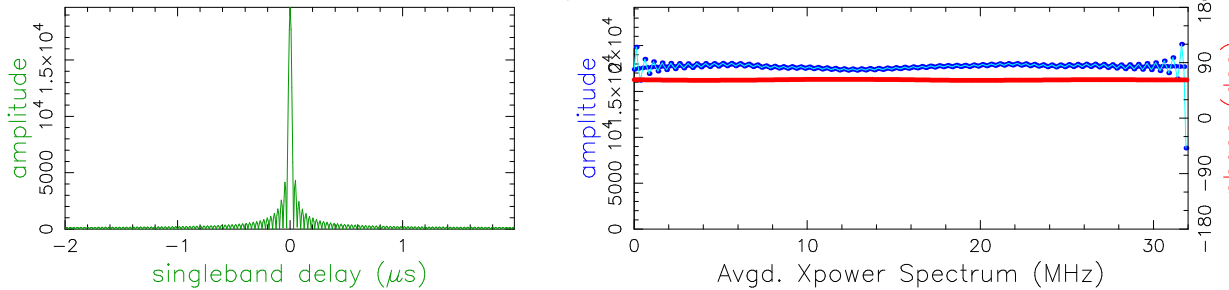
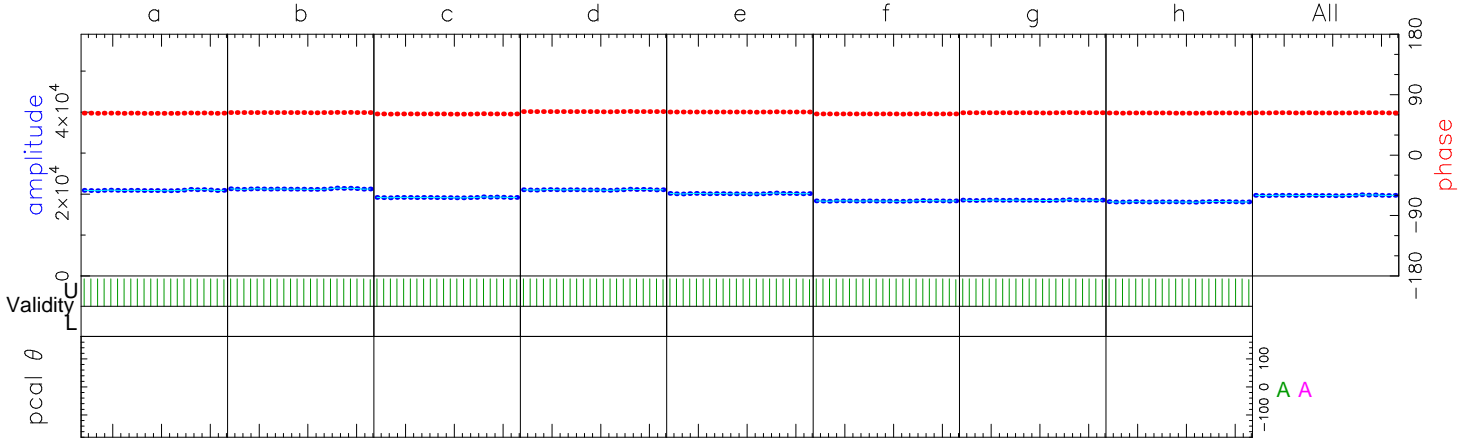


Fringe quality 9
 SNR 510514.0
 Int time 179.977
 Amp 19679.617
 Phase 62.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.000049
 MBD -0.000076
 Fringe rate (Hz) 0.000002
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:023942
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"



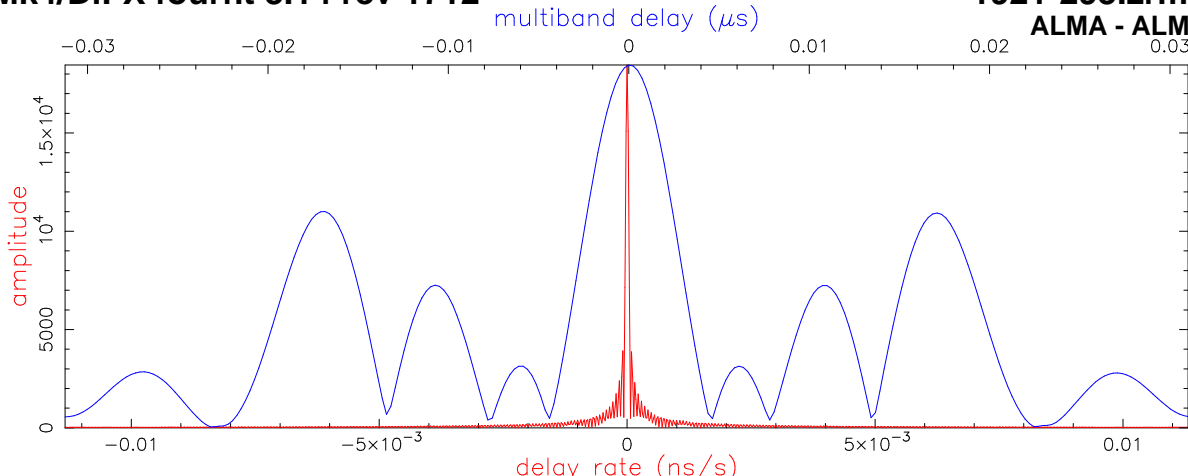
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	62.3	63.3	61.2	64.7	64.1	61.3	63.0	62.6	Phase	62.9
	20930.5	21261.9	19178.7	21050.3	20116.5	18318.9	18502.6	18109.3	Ampl.	19683.6
	257.0	257.0	257.0	257.1	256.9	257.0	257.0	257.0	Sbd box	257.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
A	0	0	0	0	0	0	0	0	PC freqs	
A:A	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:A	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
A	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-7.600000000000E-05		Apriori delay (usec)		0.000000000000E+00		Resid mbdelay (usec)		-7.60000E-05	+/- 4.8E-09
Sband delay (usec)	4.950000000000E-05		Apriori clock (usec)		0.000000000000E+00		Resid sbdelay (usec)		4.95000E-05	+/- 3.4E-08
Phase delay (usec)	2.02683071058E-06		Apriori clockrate (us/s)		0.000000000000E+00		Resid phdelay (usec)		2.02683E-06	+/- 7.2E-12
Delay rate (us/s)	1.98396133484E-11		Apriori rate (us/s)		0.000000000000E+00		Resid rate (us/s)		1.98396E-11	+/- 7.0E-14
Total phase (deg)			Apriori accel (us/s/s)		0.000000000000E+00		Resid phase (deg)		62.9	+/- 0.0

RMS Theor. Amplitude 19679.617 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.1 0.0 Search (1024X64) 19670.111 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 0.3 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 ph/frq (deg) 1.3 0.0 Inc. seg. avg. 19679.564 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 6.2 0.0 Inc. frq. avg. 19683.580 ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 A: az 250.7 el 62.2 pa 84.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/m007/gvma_32_pc1/1234/No0082/AA..zrmnrj Output file: /Exps/m007/gvma_32_pc1/1234/No0082/AA.W.1.zrmnrj



Fringe quality 9

SNR 478892.9

Int time 179.977

Amp 18460.666

Phase -60.1

PFD 0.0e+00

Delays (us)

SBD -0.000052

MBD 0.000065

Fringe rate (Hz)

0.000011

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. mb007

Exper # 16383

Yr:day 2017:093

Start 131121.00

Stop 131421.22

FRT 131251.00

Corr/FF/build

2017:237:124829

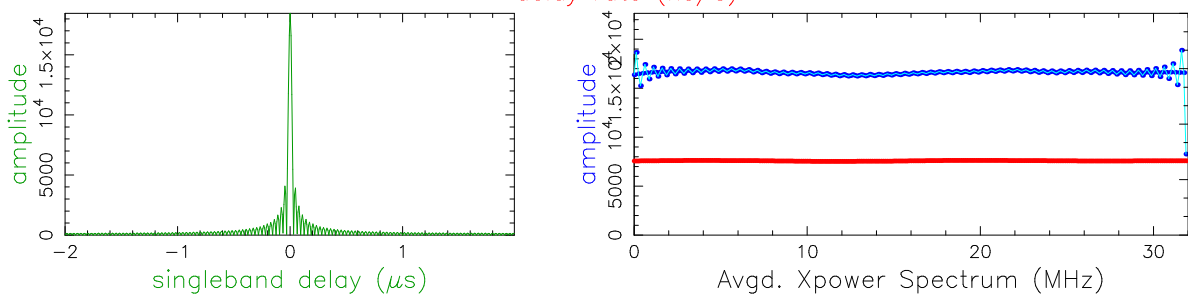
2017:244:023944

2017:170:130423

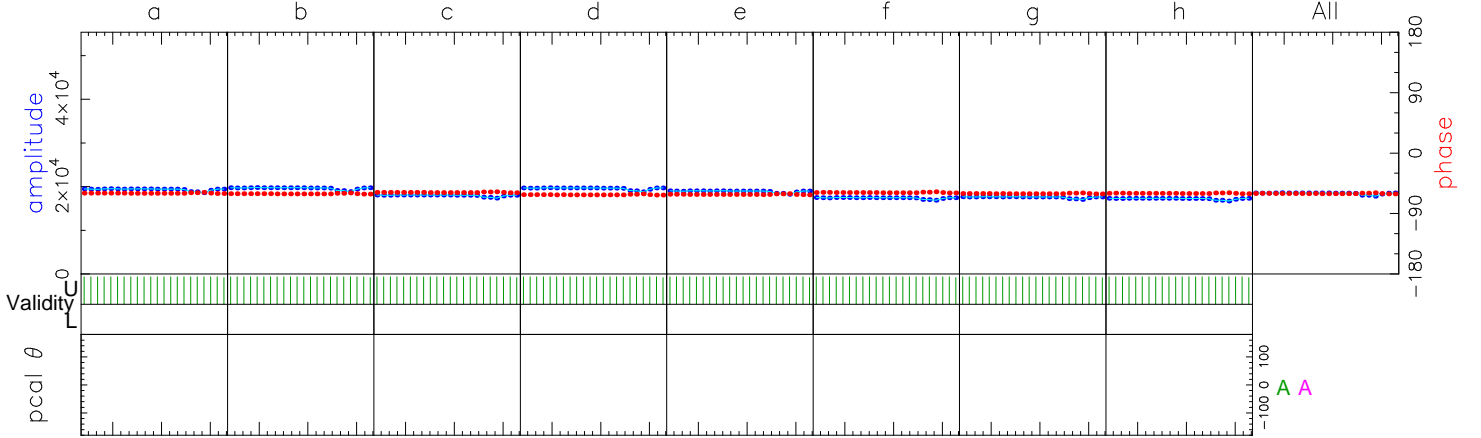
RA & Dec (J2000)

19h24m51.0560s

-29°14'30.121"



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



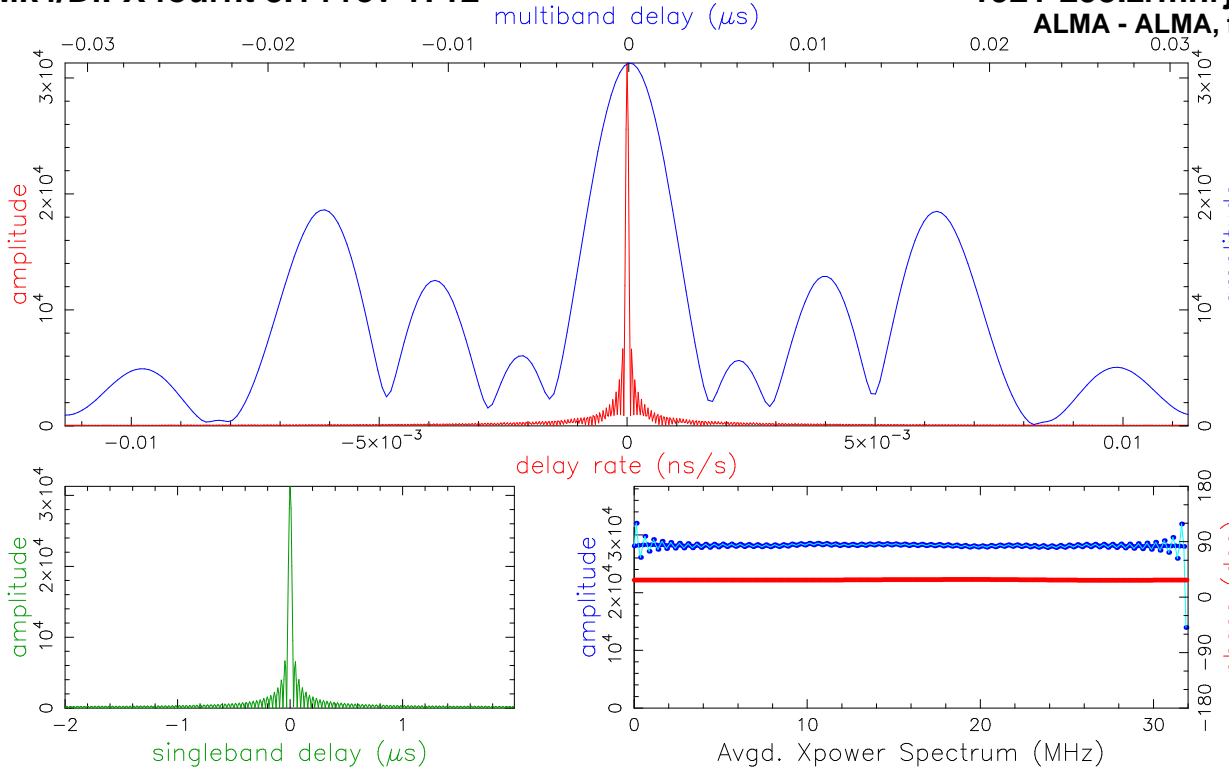
	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	-59.7	-60.5	-58.5	-61.9	-61.5	-58.7	-60.2	-59.8	Phase	-60.1
	19358.6	19628.5	17979.7	19588.7	18926.2	17402.7	17585.6	17244.2	Ampl.	18464.3
	257.0	257.0	257.0	256.9	257.1	257.0	257.0	257.0	Sbd box	257.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
A	0	0	0	0	0	0	0	0	PC freqs	
A:A	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:A	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
A	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	6.550000000000E-05	Apriori delay (usec)	0.000000000000E+00	Resid mbdelay (usec)	6.55000E-05	+/-	5.1E-09
Sband delay (usec)	-5.250000000000E-05	Apriori clock (usec)	0.000000000000E+00	Resid sbdelay (usec)	-5.25000E-05	+/-	3.6E-08
Phase delay (usec)	-1.93939318028E-06	Apriori clockrate (us/s)	0.000000000000E+00	Resid phdelay (usec)	-1.93939E-06	+/-	7.7E-12
Delay rate (us/s)	1.31791717243E-10	Apriori rate (us/s)	0.000000000000E+00	Resid rate (us/s)	1.31792E-10	+/-	7.4E-14
Total phase (deg)	-60.1	Apriori accel (us/s/s)	0.000000000000E+00	Resid phase (deg)	-60.1	+/-	0.0

ph/seg (deg)	0.4	0.0	Amplitude	18460.666 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-2.000	2.000
amp/seg (%)	1.1	0.0	Search (1024X64)	18453.881	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.031	0.031
ph/frq (deg)	1.3	0.0	Inc. seg. avg.	18460.951	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	5.2	0.0	Inc. frq. avg.	18464.273	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
					Data rate(Mb/s): 1024	nlags: 256	t_cohere infinite		

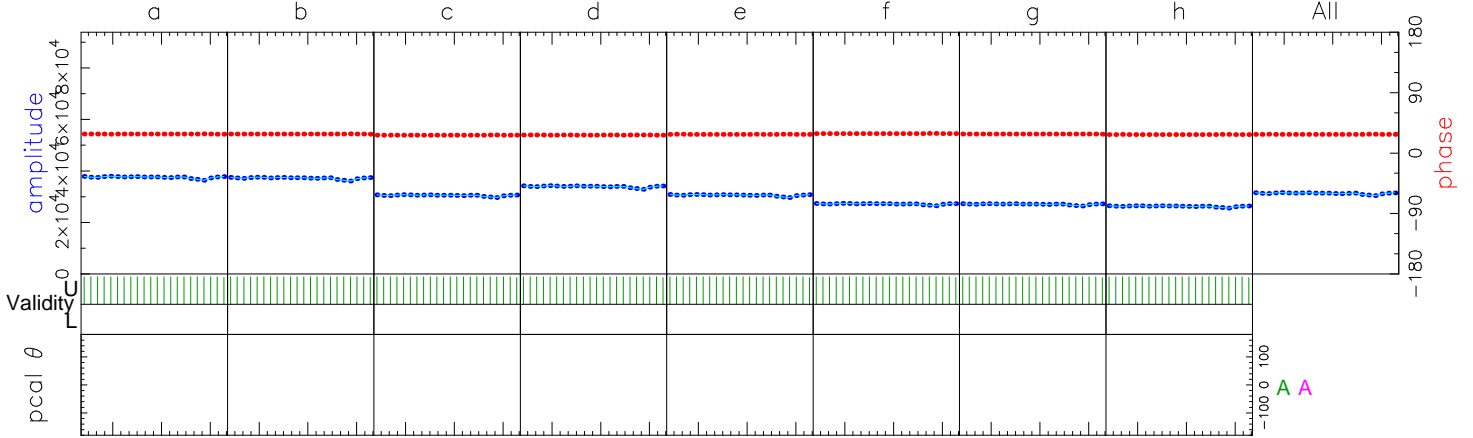
A: az 250.7 el 62.2 pa 84.2 A: az 250.7 el 62.2 pa 84.2 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/m007/gvma_32_pc1/1234/No0082/AA...zrmnrj Output file: /Exps/m007/gvma_32_pc1/1234/No0082/AA.W.2.zrmnrj



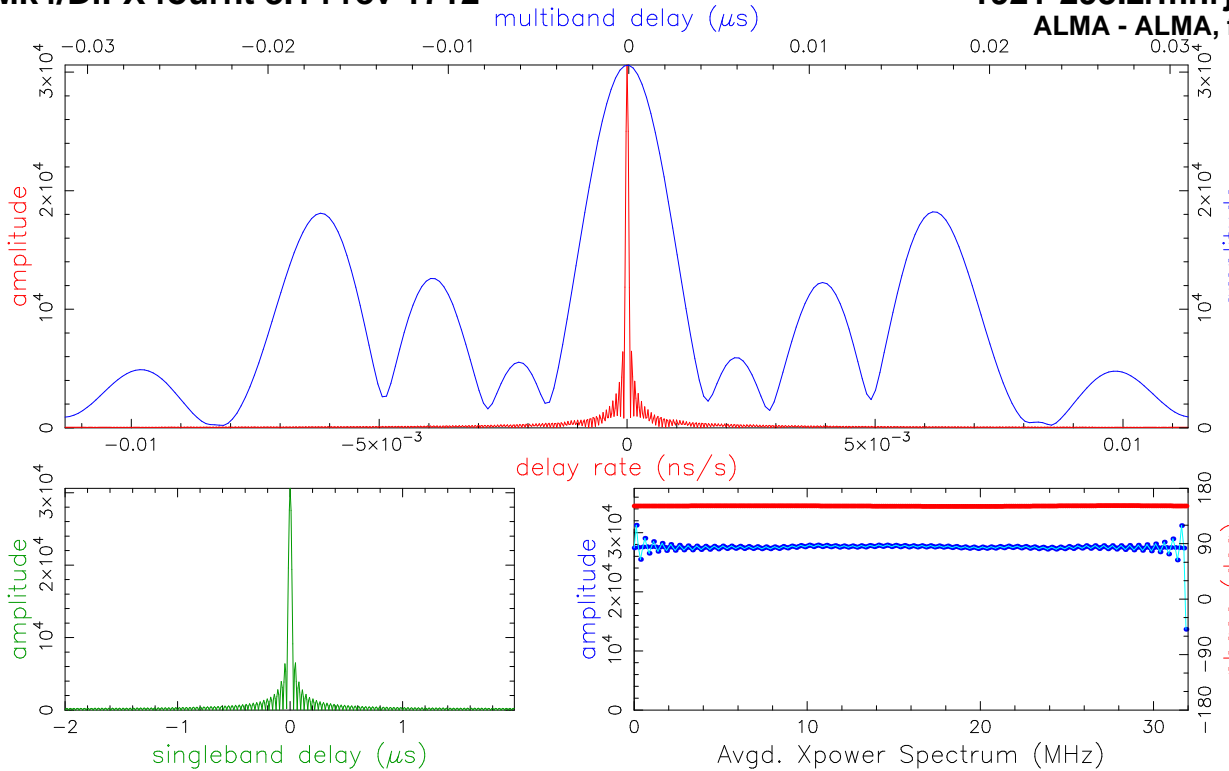
Fringe quality 9
 SNR 811777.6
 Int time 179.977
 Amp 31292.918
 Phase 27.9
 PFD 0.0e+00
 Delays (us)
 SBD 0.000062
 MBD 0.000069
 Fringe rate (Hz) 0.000002
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512
 Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:023946
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

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



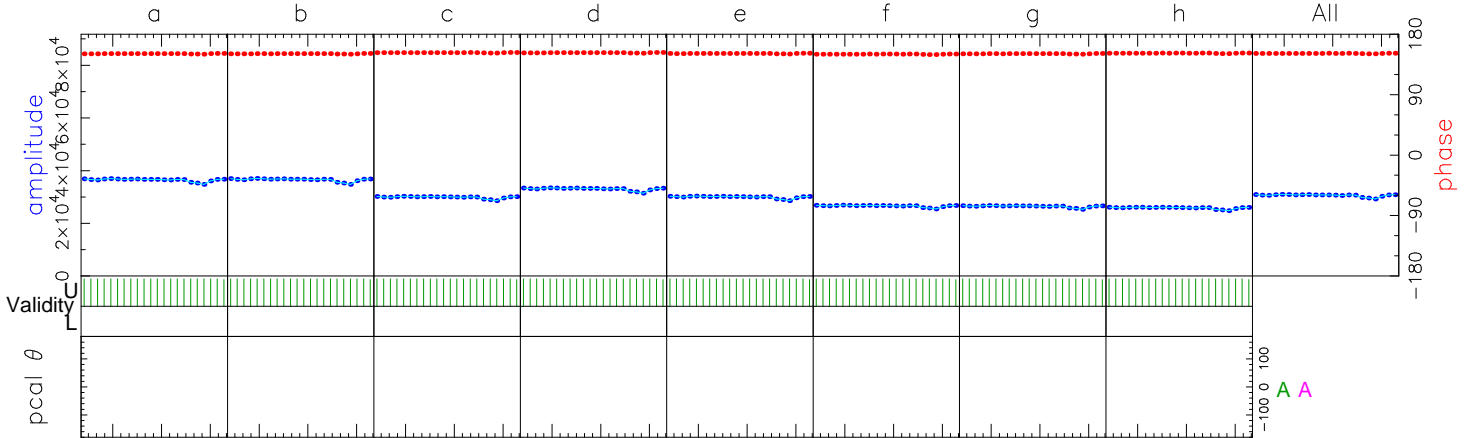
	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	28.4	28.4	26.7	26.9	28.0	29.0	28.4	27.6	Phase	27.9
	37550.5	37210.4	30501.5	33941.3	30586.8	27191.5	27092.4	26288.1	Ampl.	31295.3
	257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
A	0	0	0	0	0	0	0	0	PC freqs	
A:A	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:A	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
A	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.86875000000E-05		Apriori delay (usec)		0.00000000000E+00		Resid mbdelay (usec)		6.86875E-05	+/- 3.0E-09
Sband delay (usec)	6.15000000000E-05		Apriori clock (usec)		0.0000000E+00		Resid sbdelay (usec)		6.15000E-05	+/- 2.1E-08
Phase delay (usec)	9.00346938881E-07		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		9.00347E-07	+/- 4.6E-12
Delay rate (us/s)	2.55080743050E-11		Apriori rate (us/s)		0.00000000000E+00		Resid rate (us/s)		2.55081E-11	+/- 4.4E-14
Total phase (deg)	27.9		Apriori accel (us/s/s)		0.00000000000E+00		Resid phase (deg)		27.9	+/- 0.0

RMS Theor. Amplitude 31292.918 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.1 0.0 Search (1024X64) 31280.390 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 0.9 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 ph/frq (deg) 0.9 0.0 Inc. seg. avg. 31292.750 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 13.5 0.0 Inc. frq. avg. 31295.311 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00



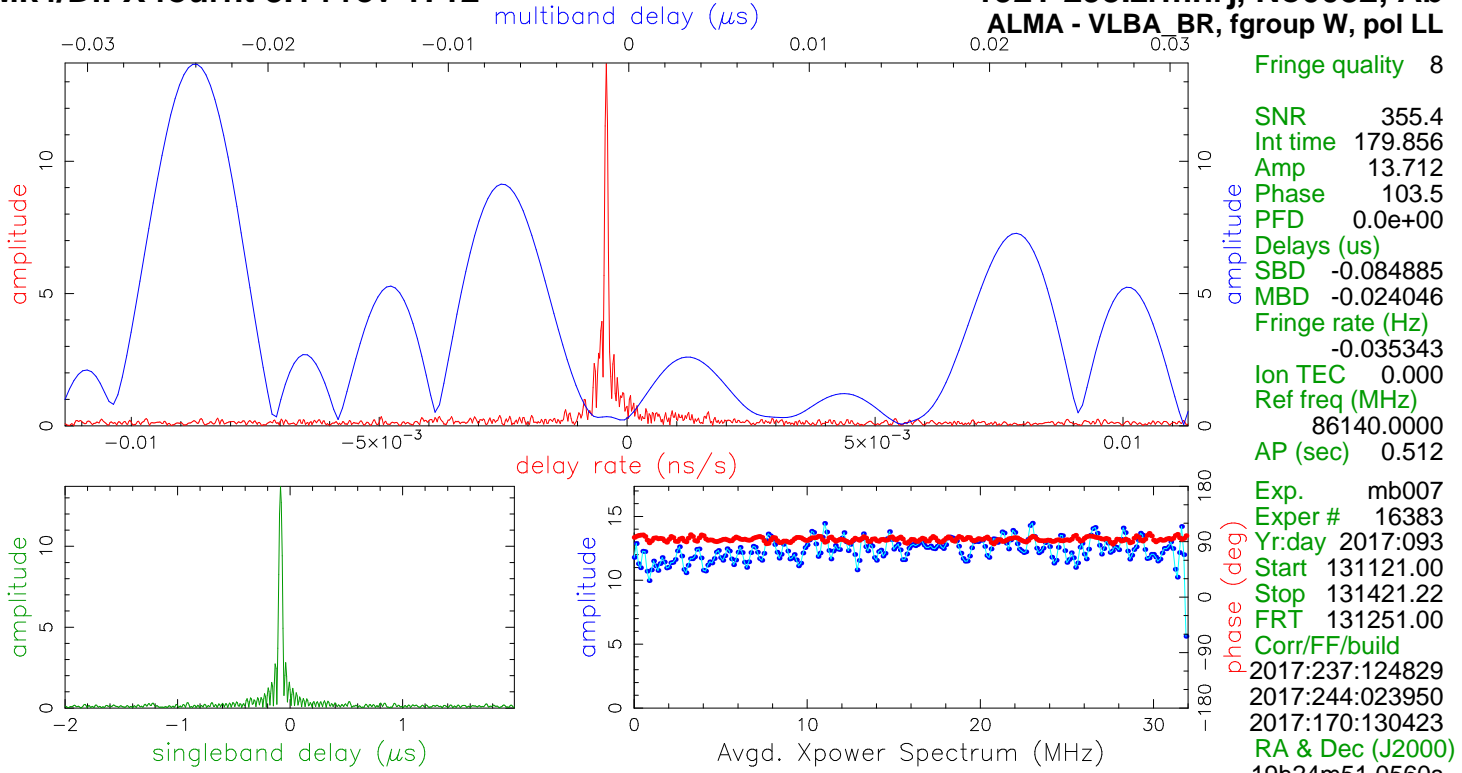
Fringe quality 9
 SNR 793894.9
 Int time 179.977
 Amp 30603.564
 Phase 151.3
 PFD 0.0e+00
 Delays (us)
 SBD -0.000063
 MBD -0.000070
 Fringe rate (Hz)
 -0.000007
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:023948
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

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

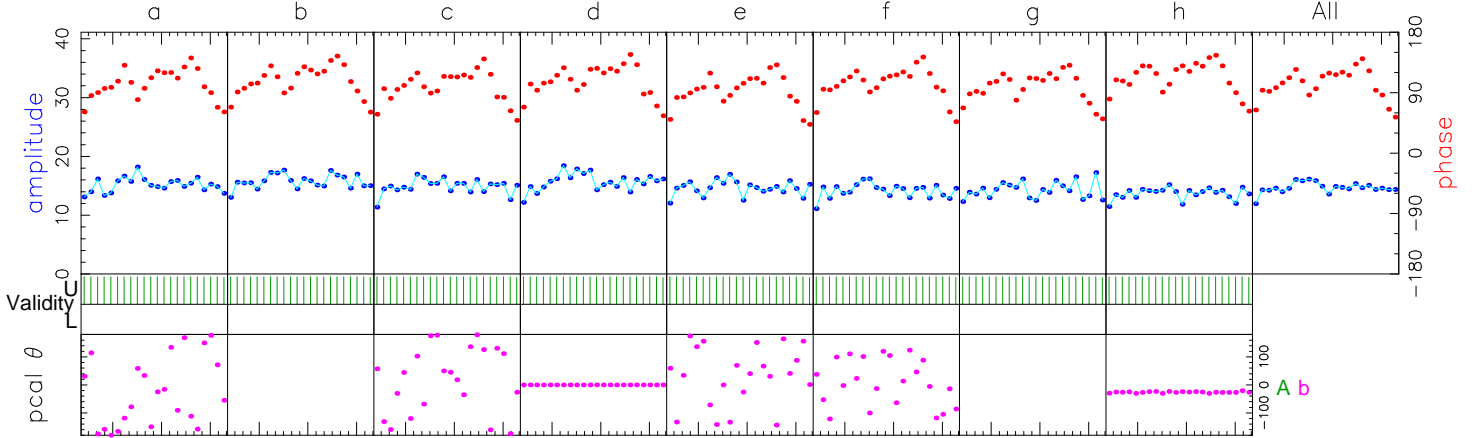


86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
150.9	150.8	152.4	152.3	151.3	150.2	150.8	151.6	Phase	151.3
36479.8	36543.0	29906.2	33037.0	29978.4	26584.9	26449.9	25867.0	Ampl.	30605.8
257.0	257.0	257.0	257.0	257.0	257.0	257.0	257.0	Sbd box	257.0
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
A 0	0	0	0	0	0	0	0	PC freqs	
A:A 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:A 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
A 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
A W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	-7.03750000000E-05	Apriori delay (usec)	0.00000000000E+00	Resid mbdelay (usec)	-7.03750E-05	+/-	3.1E-09		
Sband delay (usec)	-6.25000000000E-05	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	-6.25000E-05	+/-	2.2E-08		
Phase delay (usec)	4.87920927866E-06	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	4.87921E-06	+/-	4.7E-12		
Delay rate (us/s)	-8.64440295893E-11	Apriori rate (us/s)	0.00000000000E+00	Resid rate (us/s)	-8.64440E-11	+/-	4.5E-14		
Total phase (deg)	151.3	Apriori accel (us/s/s)	0.00000000000E+00	Resid phase (deg)	151.3	+/-	0.0		

RMS Theor. Amplitude 30603.564 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 0.2 0.0 Search (1024X64) 30590.609 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 1.5 0.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 ph/frq (deg) 0.8 0.0 Inc. seg. avg. 30603.633 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 13.3 0.0 Inc. frq. avg. 30605.768 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

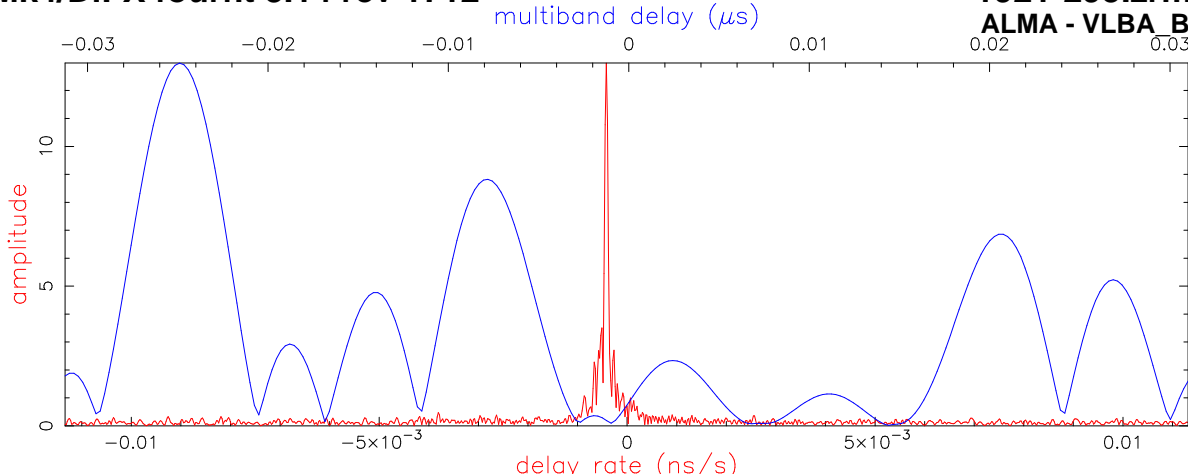


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
103.0	108.7	100.0	107.8	93.0	103.9	98.2	113.3	113.3	Phase	103.5
14.1	14.7	13.9	14.6	13.5	13.2	13.4	12.7	12.7	Ampl.	13.8
246.0	246.1	246.1	246.1	246.2	246.1	246.2	246.3	246.3	Sbd box	246.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
b	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
b	W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.26922012387E+04		Apriori delay (usec)		1.26922877842E+04		Resid mbdelay (usec)		-2.40456E-02 +/- 6.9E-06	
Sband delay (usec)	1.26922028992E+04		Apriori clock (usec)		-2.1011538E+03		Resid sbdelay (usec)		-8.48850E-02 +/- 4.8E-05	
Phase delay (usec)	1.26922877876E+04		Apriori clockrate (us/s)		1.7493731E-06		Resid phdelay (usec)		3.33773E-06 +/- 1.0E-08	
Delay rate (us/s)	-9.66333792976E-01		Apriori rate (us/s)		-9.66333382680E-01		Resid rate (us/s)		-4.10296E-07 +/- 1.0E-10	
Total phase (deg)	8.2		Apriori accel (us/s/s)		-1.62770849417E-05		Resid phase (deg)		103.5 +/- 0.3	

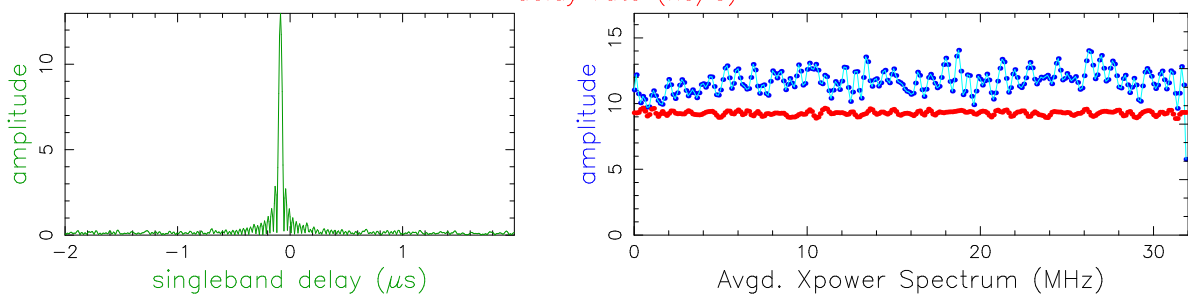
	RMS	Theor.	Amplitude	13.712 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-2.000	2.000
ph/seg (deg)	21.9	0.8	Search (1024X64)	12.923	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.031	0.031
amp/seg (%)	9.7	1.3	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
ph/frq (deg)	7.0	0.5	Inc. seg. avg.	14.696	Sample rate(MSamp/s): 64		ion window (TEC)	0.00	0.00
amp/frq (%)	4.7	0.8	Inc. frq. avg.	13.761	Data rate(Mb/s): 1024	nlags: 256 t_cohere infinite			



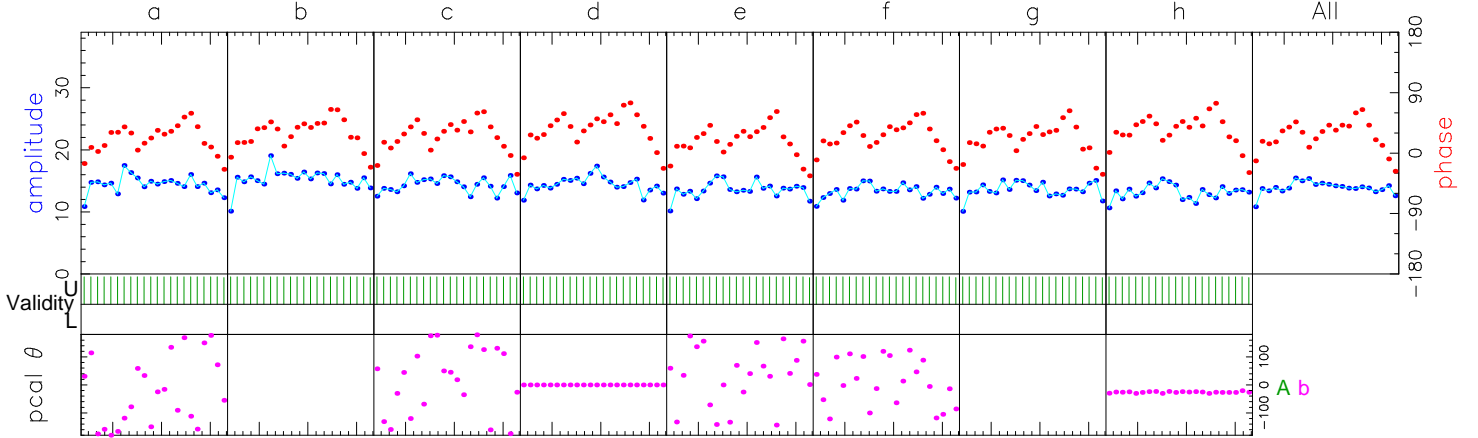
Fringe quality 8

SNR 336.6
 Int time 179.857
 Amp 12.986
 Phase 26.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.085845
 MBD -0.024886
 Fringe rate (Hz)
 -0.035329
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:023953
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"



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



	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	22.2	30.6	25.7	37.5	18.1	24.8	21.3	33.8	Phase	26.8
	13.6	14.3	13.3	13.3	12.6	12.5	12.6	12.2	Ampl.	13.1
	246.0	246.0	246.1	246.0	245.9	246.0	246.0	246.2	Sbd box	246.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
b	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
b	W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.26922003987E+04		Apriori delay (usec)		1.26922877842E+04		Resid mbdelay (usec)		-2.48856E-02	+/- 7.3E-06
Sband delay (usec)	1.26922019397E+04		Apriori clock (usec)		-2.1011538E+03		Resid sbdelay (usec)		-8.58445E-02	+/- 5.1E-05
Phase delay (usec)	1.26922877851E+04		Apriori clockrate (us/s)		1.7493731E-06		Resid phdelay (usec)		8.64671E-07	+/- 1.1E-08
Delay rate (us/s)	-9.66333792810E-01		Apriori rate (us/s)		-9.66333382680E-01		Resid rate (us/s)		-4.10130E-07	+/- 1.1E-10
Total phase (deg)	291.5		Apriori accel (us/s/s)		-1.62770849417E-05		Resid phase (deg)		26.8	+/- 0.3

ph/seg (deg) 21.9 0.8
 amp/seg (%) 10.2 1.4
 ph/frq (deg) 7.2 0.5
 amp/frq (%) 5.1 0.8

RMS Theor. Amplitude 12.986 +/- 0.039
 Search (1024X64) 12.211
 Interp. 0.000
 Inc. seg. avg. 13.923
 Inc. frq. avg. 13.062

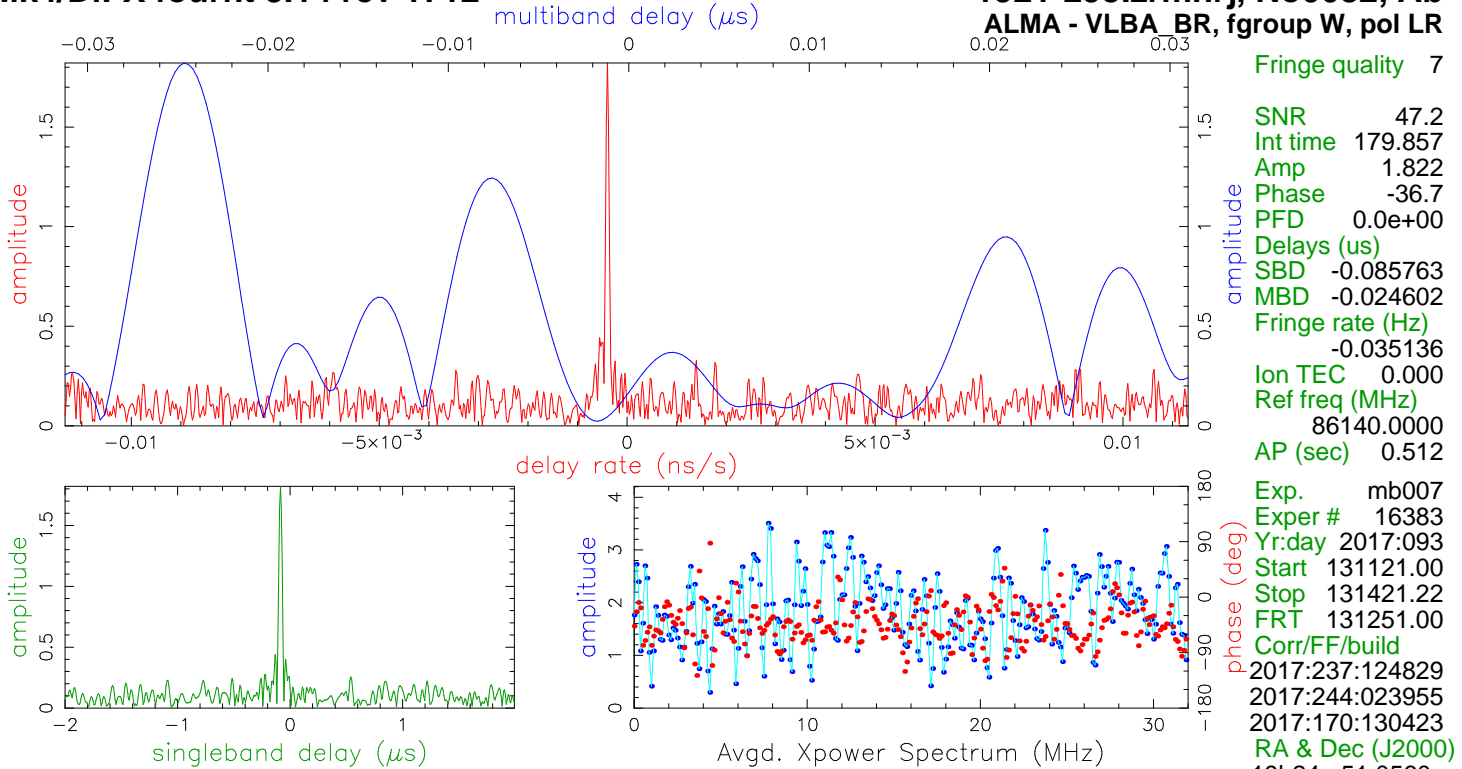
Group delay (usec)(sbd) 1.26922003987E+04
 Apriori delay (usec) 1.26922877842E+04
 Resid mbdelay (usec) -2.48856E-02
 Sband delay (usec) 1.26922019397E+04
 Apriori clock (usec) -2.1011538E+03
 Resid sbdelay (usec) -8.58445E-02
 Phase delay (usec) 1.26922877851E+04
 Apriori clockrate (us/s) 1.7493731E-06
 Resid phdelay (usec) 8.64671E-07
 Delay rate (us/s) -9.66333792810E-01
 Apriori rate (us/s) -9.66333382680E-01
 Resid rate (us/s) -4.10130E-07
 Total phase (deg) 291.5
 Apriori accel (us/s/s) -1.62770849417E-05
 Resid phase (deg) 26.8

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Sample rate(MSamp/s): 64
 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite

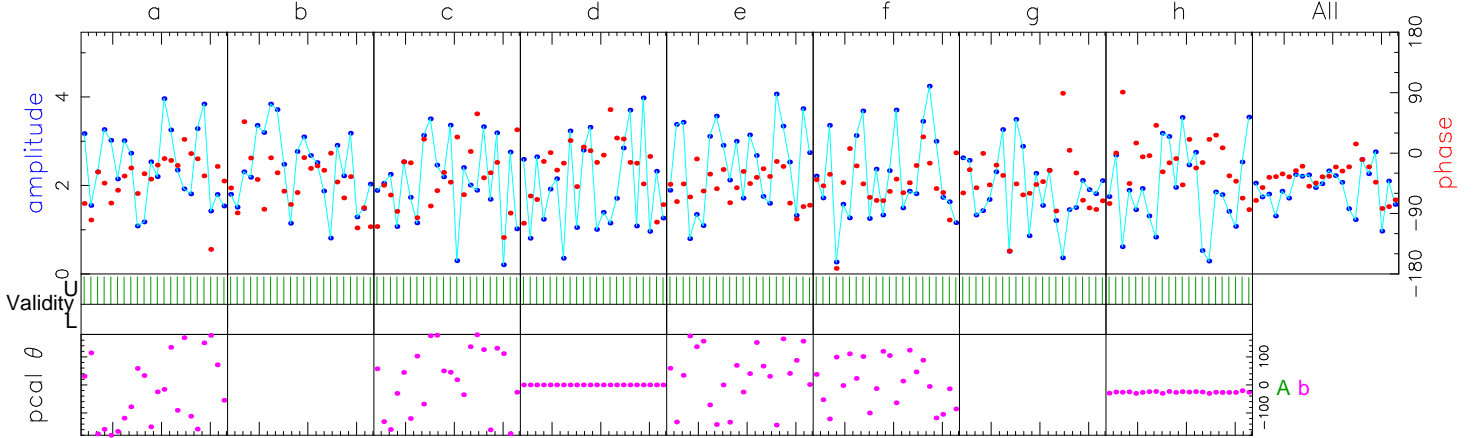
sb window (us) -2.000 2.000
 mb window (us) -0.031 0.031
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 b: az 160.9 el 10.3 pa -14.5 u,v (fr/asec) 6306.793 -8022.592 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/mb007/gvma_32_pc1/1234/No0082/Ab..zrmnrj Output file: /Exps/mb007/gvma_32_pc1/1234/No0082/Ab.W.6.zrmnrj



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

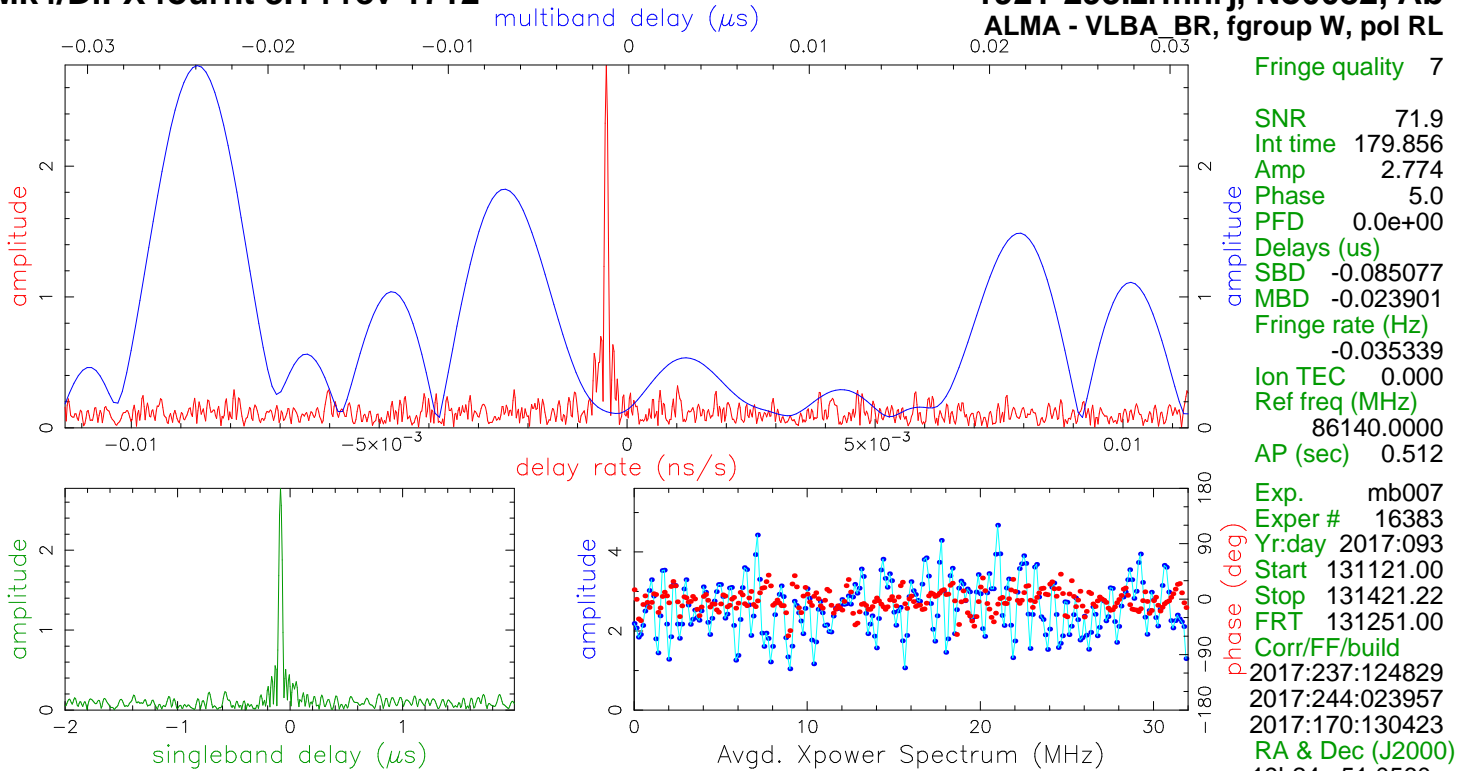


86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
-33.4	-40.3	-39.1	-19.8	-47.1	-37.8	-46.9	-22.4	Phase	-36.7
2.1	2.0	1.6	1.5	2.3	2.0	1.7	1.6	Ampl.	1.8
245.7	245.7	246.3	246.1	245.9	246.1	246.1	246.5	Sbd box	246.0
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
b 4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:b 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:b 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
b W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.26922006823E+04		Apriori delay (usec)	1.26922877842E+04		Resid mbdelay (usec)	-2.46020E-02	+/-	5.2E-05
Sband delay (usec)	1.26922020212E+04		Apriori clock (usec)	-2.1011538E+03		Resid sbdelay (usec)	-8.57630E-02	+/-	3.6E-04
Phase delay (usec)	1.26922877831E+04		Apriori clockrate (us/s)	1.7493731E-06		Resid phdelay (usec)	-1.18257E-06	+/-	7.8E-08
Delay rate (us/s)	-9.66333790579E-01		Apriori rate (us/s)	-9.66333382680E-01		Resid rate (us/s)	-4.07898E-07	+/-	7.5E-10
Total phase (deg)		228.0	Apriori accel (us/s/s)	-1.62770849417E-05		Resid phase (deg)	-36.7	+/-	2.4

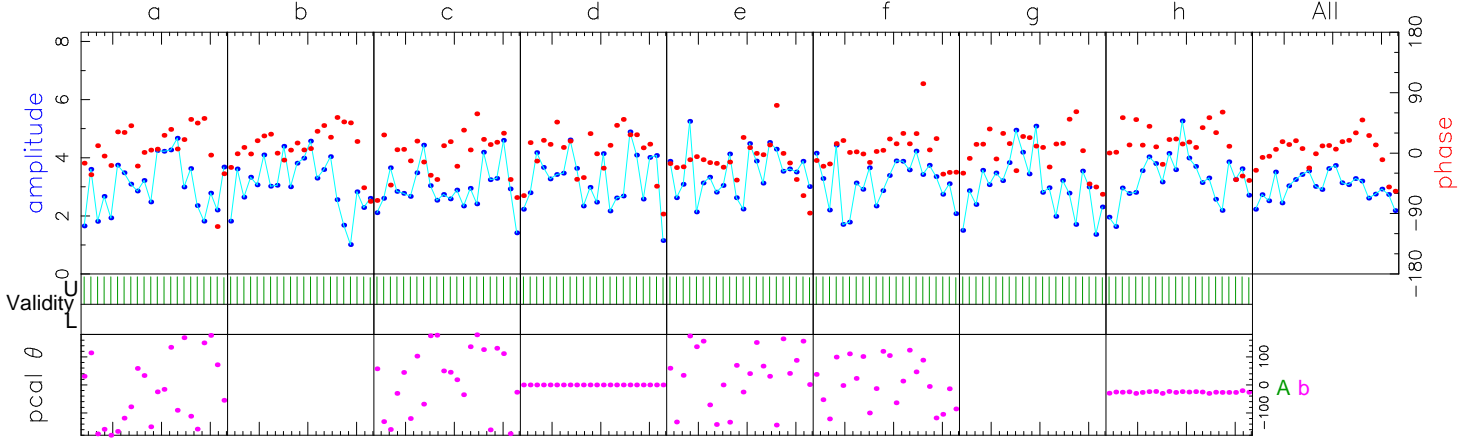
RMS Theor. Amplitude 1.822 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 22.6 5.7 Search (1024X64) 1.755 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 24.6 9.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 ph/frq (deg) 11.0 3.4 Inc. seg. avg. 1.937 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 14.7 6.0 Inc. frq. avg. 1.842 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 b: az 160.9 el 10.3 pa -14.5 u,v (fr/asec) 6306.793 -8022.592 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ab..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ab.W.7.zrmnrj

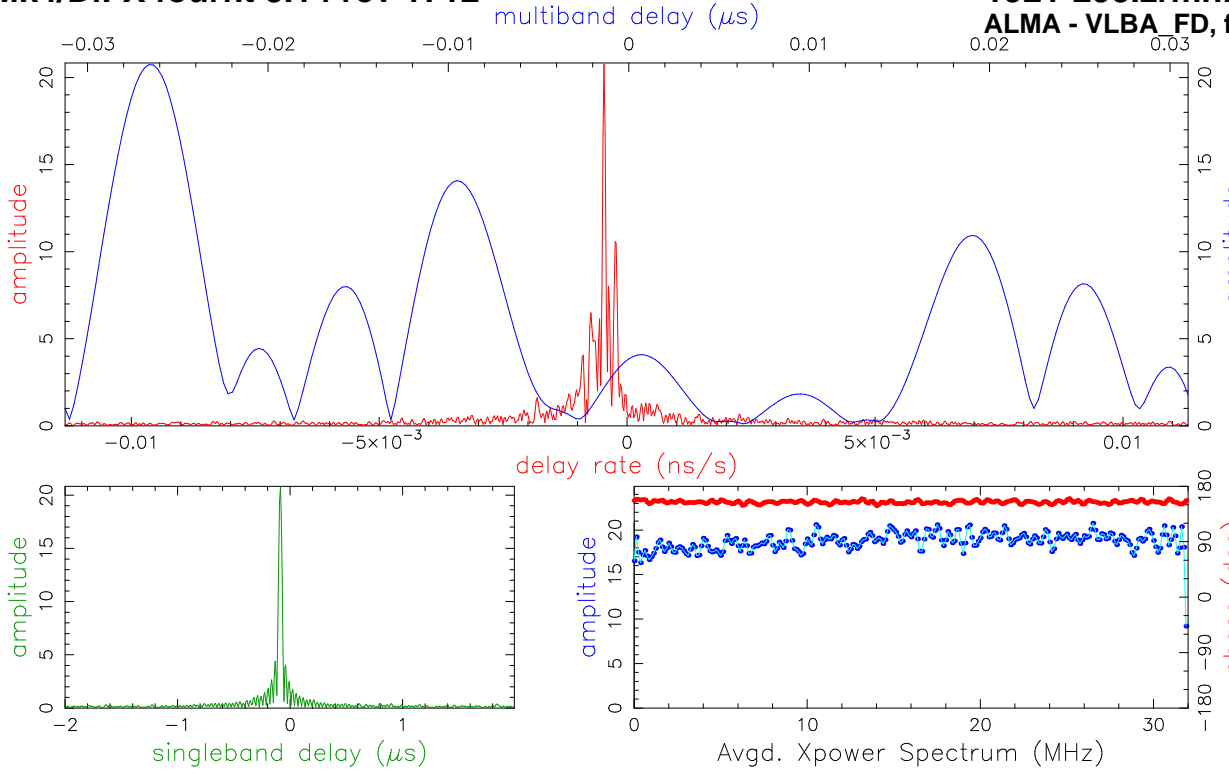


Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



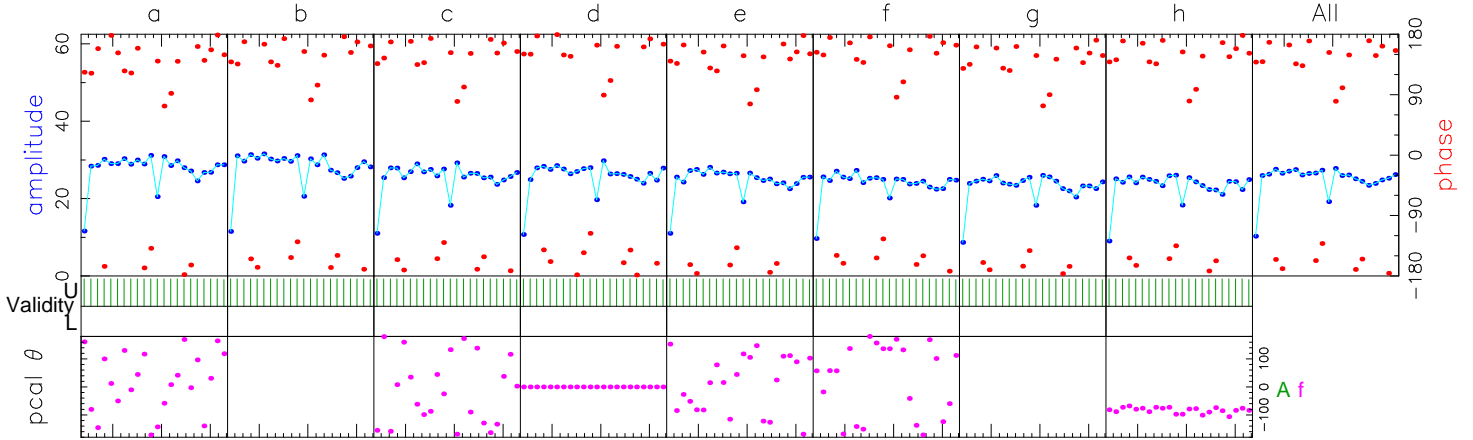
	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	10.3	10.7	-0.6	5.4	-11.5	6.1	5.0	14.8	Phase	5.0
	2.6	2.8	2.6	2.8	3.0	2.8	2.7	2.9	Ampl.	2.8
	246.0	245.8	246.4	245.9	246.3	246.4	246.0	246.3	Sbd box	246.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
b	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:b	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
b	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
b	W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.26922013834E+04		Apriori delay (usec)		1.26922877842E+04		Resid mbdelay (usec)		-2.39008E-02	+/- 3.4E-05
Sband delay (usec)	1.26922027077E+04		Apriori clock (usec)		-2.1011538E+03		Resid sbdelay (usec)		-8.50765E-02	+/- 2.4E-04
Phase delay (usec)	1.26922877844E+04		Apriori clockrate (us/s)		1.7493731E-06		Resid phdelay (usec)		1.59722E-07	+/- 5.1E-08
Delay rate (us/s)	-9.66333792928E-01		Apriori rate (us/s)		-9.66333382680E-01		Resid rate (us/s)		-4.10248E-07	+/- 4.9E-10
Total phase (deg)	269.6		Apriori accel (us/s/s)		-1.62770849417E-05		Resid phase (deg)		5.0	+/- 1.6

ph/seg (deg) 24.1 3.7 Search (1024X64) 2.618 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 17.4 6.5 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 8.8 2.3 Inc. seg. avg. 2.991 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 amp/frq (%) 4.9 3.9 Inc. frq. avg. 2.794 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 A: az 250.7 el 62.2 pa 84.2 b: az 160.9 el 10.3 pa -14.5 u,v (fr/asec) 6306.793 -8022.592 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ab...zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ab.W.8.zrmnrj



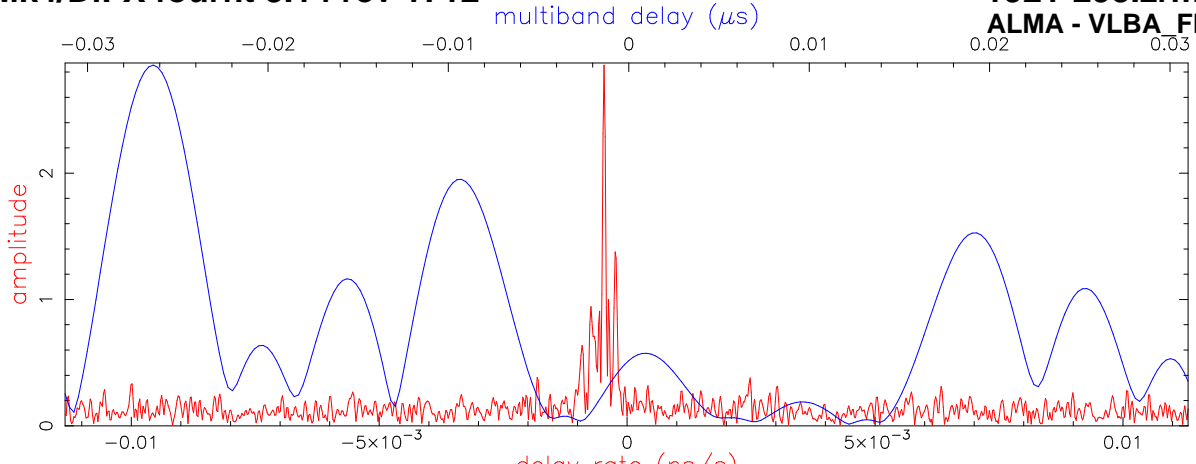
Fringe quality 6
 SNR 540.0
 Int time 179.901
 Amp 20.835
 Phase 164.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.087326
 MBD -0.026509
 Fringe rate (Hz)
 -0.040978
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512
 Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024001
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

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



	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
A	0	0	0	0	0	0	0	0		
f	4000	0	5000	4000	2000	1000	0	2000		
A:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A	1000	1000	1000	1000	1000	1000	1000	1000		
f	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
f	W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR		
Group delay (usec)(sbd)		5.92525801102E+03			5.92534702043E+03				-2.65094E-02	+/- 4.5E-06
Sband delay (usec)		5.92525969393E+03			-2.1048022E+03				-8.73265E-02	+/- 3.2E-05
Phase delay (usec)		5.92534702572E+03			2.1828075E-06				5.28938E-06	+/- 6.8E-09
Delay rate (us/s)		-7.48180259322E-01			-7.48179783611E-01				-4.75711E-07	+/- 6.6E-11
Total phase (deg)			286.5						164.0	+/- 0.2
	RMS	Theor.	Amplitude	20.835 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5				
ph/seg (deg)	34.2	0.5	Search (1024X64)	19.655	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-2.000	2.000		
amp/seg (%)	26.8	0.9	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.031	0.031	
ph/frq (deg)	8.1	0.3	Inc. seg. avg.	25.035	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.011	0.011	
amp/frq (%)	6.7	0.5	Inc. frq. avg.	20.926	Data rate(Mb/s): 1024	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00	

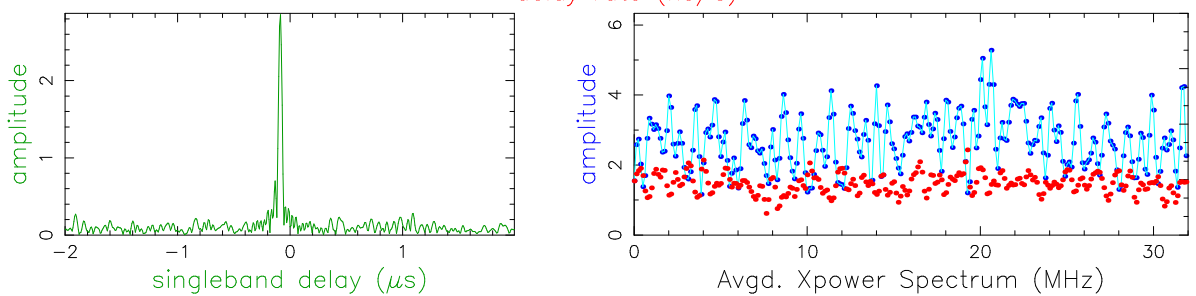
A: az 250.7 el 62.2 pa 84.2 f: az 174.1 el 29.9 pa -5.5 u,v (fr/asec) 4902.872 -7221.921 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Af..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Af.W.10.zrmnrj



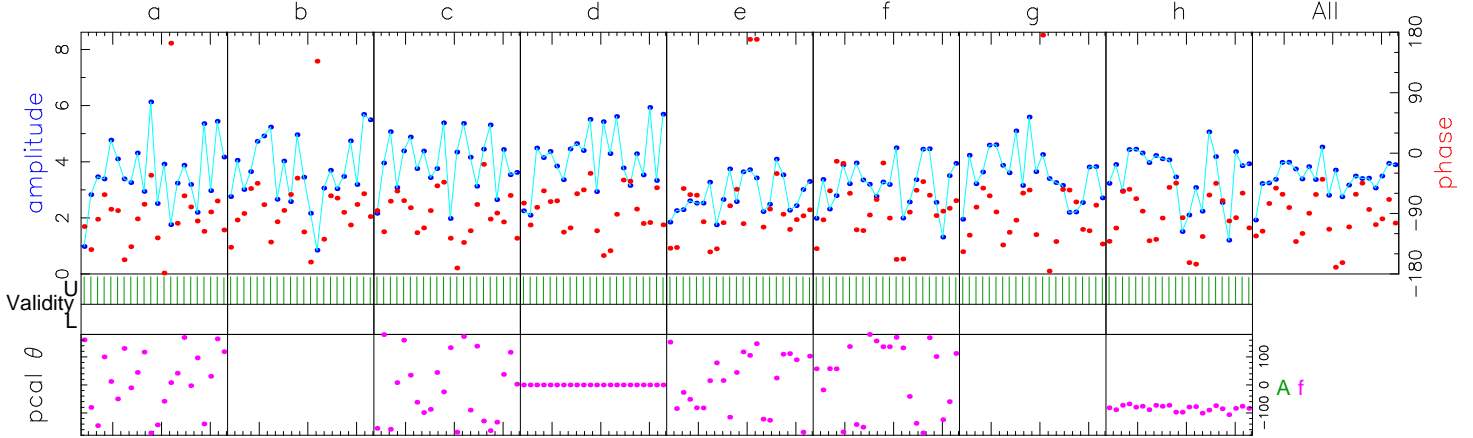
Fringe quality 6

SNR 74.4
Int time 179.901
Amp 2.872
Phase -90.8
PFD 0.0e+00
Delays (us)
SBD -0.087744
MBD -0.026377
Fringe rate (Hz)
-0.040630
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. mb007
Exper # 16383
Yr:day 2017:093
Start 131121.00
Stop 131421.22
FRT 131251.00
Corr/FF/build
2017:237:124829
2017:244:024004
2017:170:130423
RA & Dec (J2000)
19h24m51.0560s
-29°14'30.121"



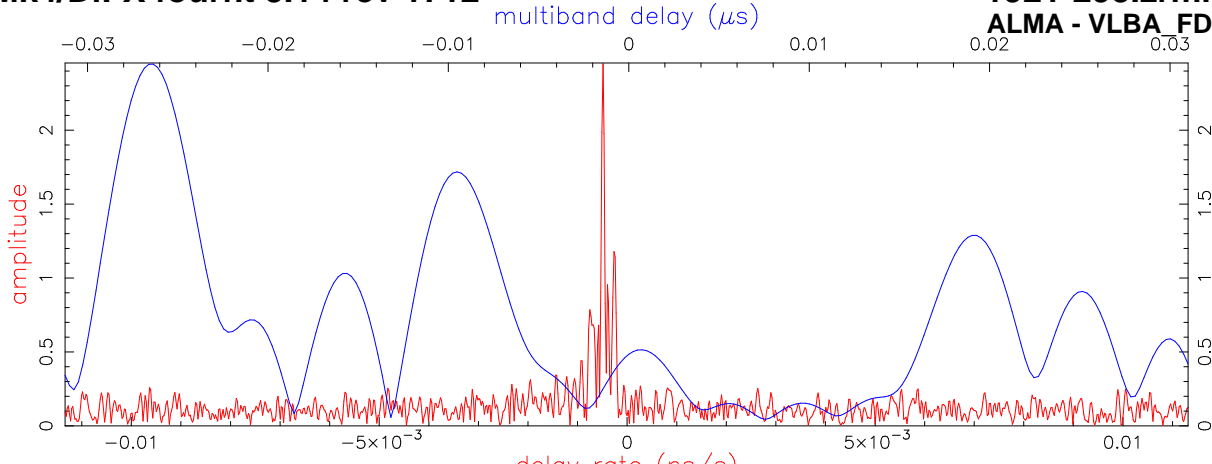
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	-98.5	-86.8	-90.8	-85.3	-100.6	-78.3	-100.3	-88.6	Phase	-90.8
	2.8	3.1	3.3	3.5	2.1	2.5	2.8	2.9	Ampl.	2.9
	246.0	245.6	245.6	245.4	246.0	246.0	246.1	245.8	Sbd box	245.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
f	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.92525814364E+03		Apriori delay (usec)		5.92534702043E+03		Resid mbdelay (usec)		-2.63768E-02	+/- 3.3E-05
Sband delay (usec)	5.92525927593E+03		Apriori clock (usec)		-2.1048022E+03		Resid sbdelay (usec)		-8.77445E-02	+/- 2.3E-04
Phase delay (usec)	5.92534701750E+03		Apriori clockrate (us/s)		2.1828075E-06		Resid phdelay (usec)		-2.92882E-06	+/- 5.0E-08
Delay rate (us/s)	-7.48180255289E-01		Apriori rate (us/s)		-7.48179783611E-01		Resid rate (us/s)		-4.71678E-07	+/- 4.8E-10
Total phase (deg)	31.6		Apriori accel (us/s/s)		6.74835170169E-06		Resid phase (deg)		-90.8	+/- 1.5

RMS Theor. Amplitude 2.872 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 34.9 3.6 Search (1024X64) 2.786 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 27.0 6.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 ph/frq (deg) 8.7 2.2 Inc. seg. avg. 3.437 Sample rate(MSamp/s): 64 dr window (ns/s) -0.011 0.011
 amp/frq (%) 14.4 3.8 Inc. frq. avg. 2.877 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 f: az 174.1 el 29.9 pa -5.5 u,v (fr/asec) 4902.872 -7221.921 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Af.zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Af.W.11.zrmnrj



Fringe quality 5

SNR 63.6

Int time 179.902

Amp 2.455

Phase 23.4

PFD 0.0e+00

Delays (us)

SBD -0.086905

MBD -0.026467

Fringe rate (Hz)

-0.041137

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512

Exp. mb007

Exper # 16383

Yr:day 2017:093

Start 131121.00

Stop 131421.22

FRT 131251.00

Corr/FF/build

2017:237:124829

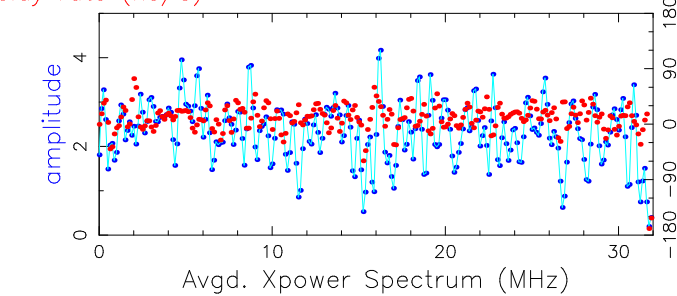
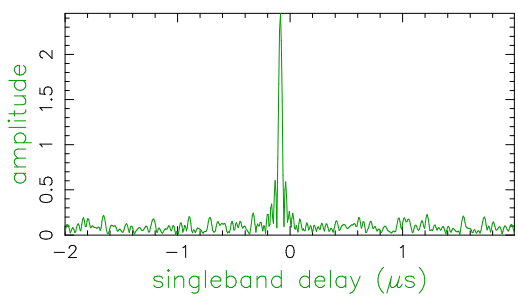
2017:244:024007

2017:170:130423

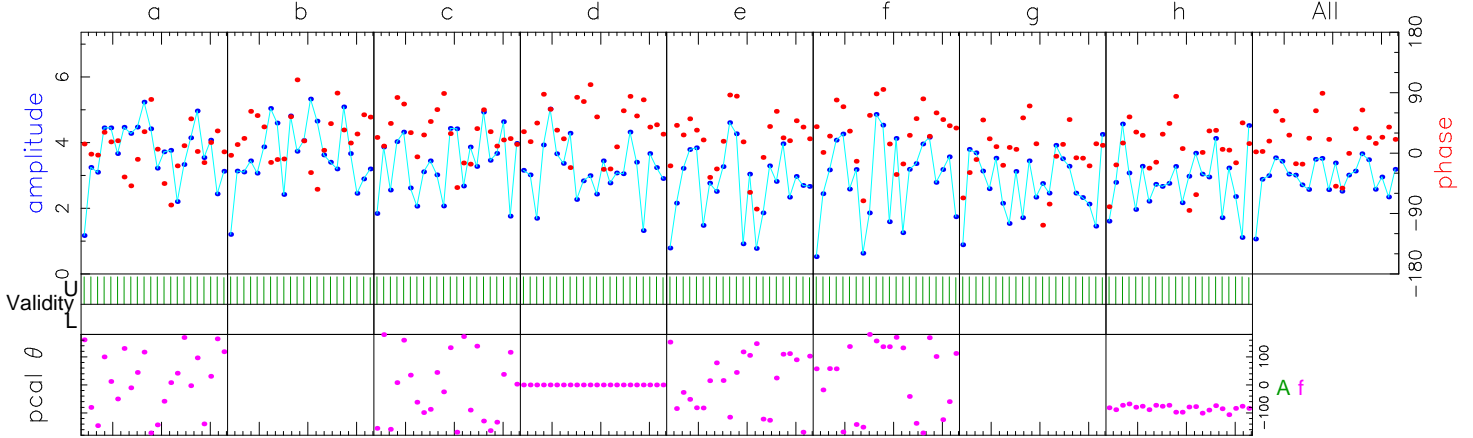
RA & Dec (J2000)

19h24m51.0560s

-29°14'30.121"



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



86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
3.7	23.9	29.2	43.1	30.1	44.3	4.2	9.8	Phase	23.4
3.1	2.9	2.8	2.6	2.2	2.4	2.2	2.2	Ampl.	2.5
246.1	246.1	245.5	246.1	246.3	245.6	245.8	245.6	Sbd box	245.9
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
f 4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:f 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:f 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
f W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	5.92525805328E+03		Apriori delay (usec)	5.92534702043E+03		Resid mbdelay (usec)	-2.64672E-02	+/-	3.8E-05
Sband delay (usec)	5.92526011543E+03		Apriori clock (usec)	-2.1048022E+03		Resid sbdelay (usec)	-8.69050E-02	+/-	2.7E-04
Phase delay (usec)	5.92534702119E+03		Apriori clockrate (us/s)	2.1828075E-06		Resid phdelay (usec)	7.54848E-07	+/-	5.8E-08
Delay rate (us/s)	-7.48180261168E-01		Apriori rate (us/s)	-7.48179783611E-01		Resid rate (us/s)	-4.77557E-07	+/-	5.6E-10
Total phase (deg)		145.9	Apriori accel (us/s/s)	6.74835170169E-06		Resid phase (deg)	23.4	+/-	1.8

RMS Theor. Amplitude 2.455 +/- 0.039

ph/seg (deg) 34.3 4.2 Search (1024X64) 2.347

amp/seg (%) 30.7 7.4 Interp. 0.000

ph/frq (deg) 17.5 2.5 Inc. seg. avg. 2.953

amp/frq (%) 13.6 4.4 Inc. frq. avg. 2.536

Group delay (usec)(sbd) 5.92525805328E+03

Sband delay (usec) 5.92526011543E+03

Phase delay (usec) 5.92534702119E+03

Delay rate (us/s) -7.48180261168E-01

Total phase (deg) 145.9

Apriori delay (usec) 5.92534702043E+03

Apriori clock (usec) -2.1048022E+03

Apriori clockrate (us/s) 2.1828075E-06

Apriori rate (us/s) -7.48179783611E-01

Apriori accel (us/s/s) 6.74835170169E-06

Resid mbdelay (usec) -2.64672E-02

Resid sbdelay (usec) -8.69050E-02

Resid phdelay (usec) 7.54848E-07

Resid rate (us/s) -4.77557E-07

Resid phase (deg) 23.4

Pcal mode: MANUAL, MANUAL

Pcal rate: 0.000E+00, 0.000E+00 (us/s)

Bits/sample: 2x2

Sample rate(MSamp/s): 64

Data rate(Mb/s): 1024

sb window (us) -2.000 2.000

mb window (us) -0.031 0.031

dr window (ns/s) -0.011 0.011

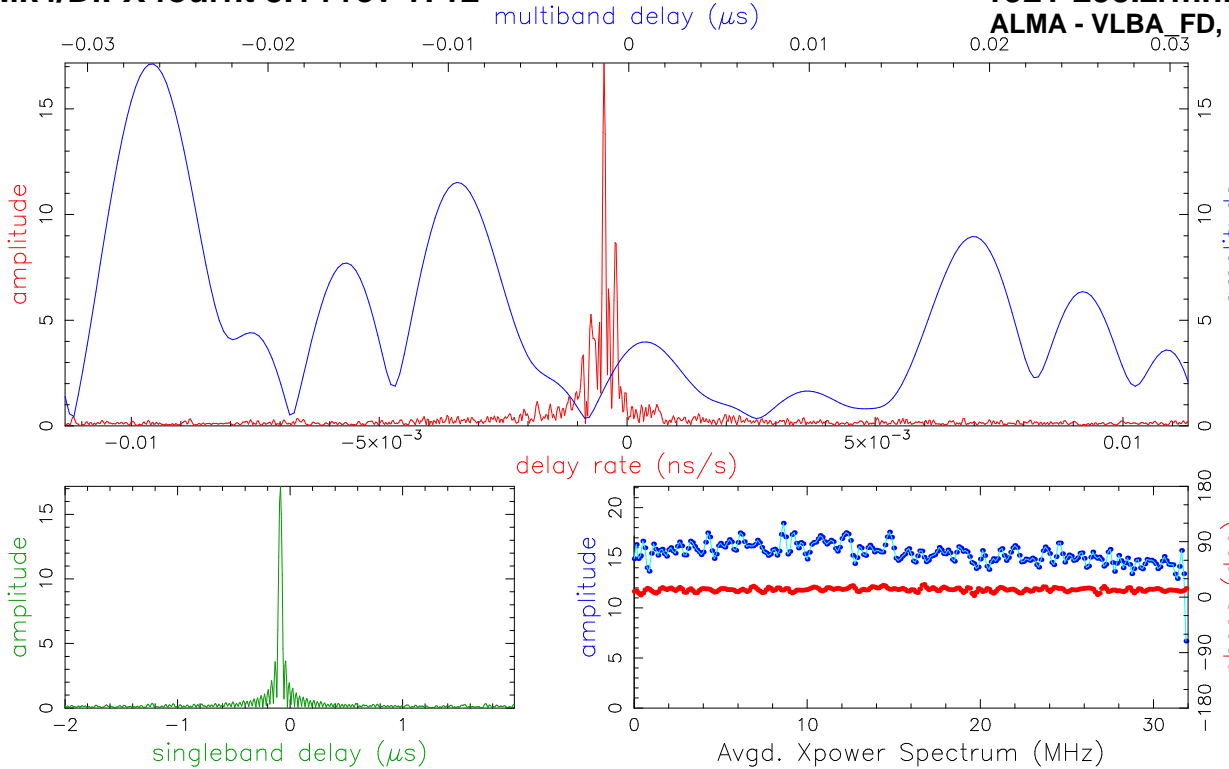
ion window (TEC) 0.00 0.00

nlags: 256 t_cohere infinite

simultaneous interpolator

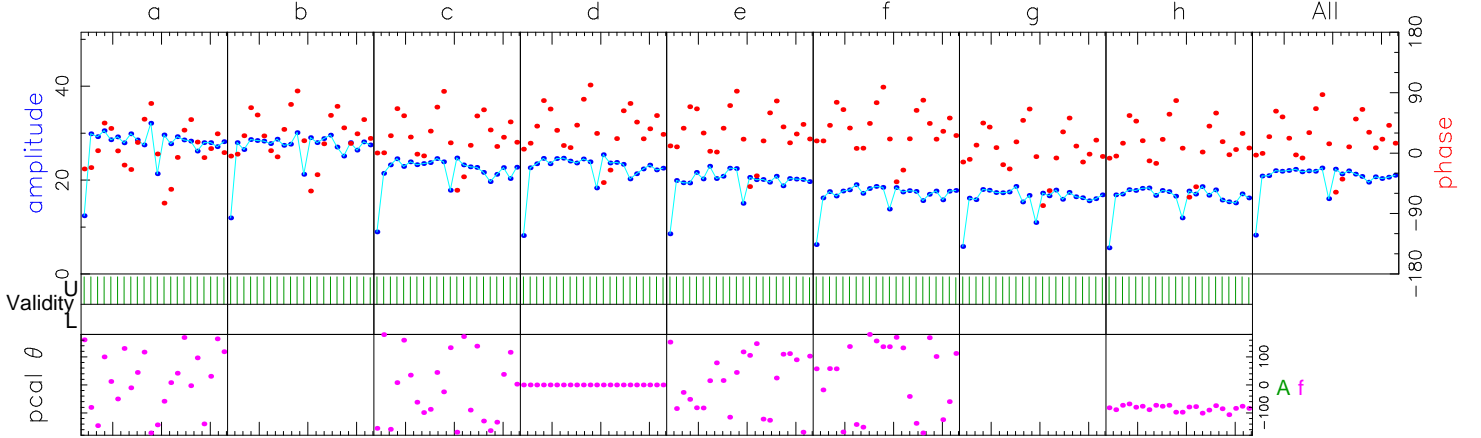
A: az 250.7 el 62.2 pa 84.2 f: az 174.1 el 29.9 pa -5.5 u,v (fr/asec) 4902.872 -7221.921

Control file: cf_1234 Input file: /Exps/m007/gmva_32_pc1/1234/No0082/Af.zrmnrj Output file: /Exps/m007/gmva_32_pc1/1234/No0082/Af.W.12.zrmnrj



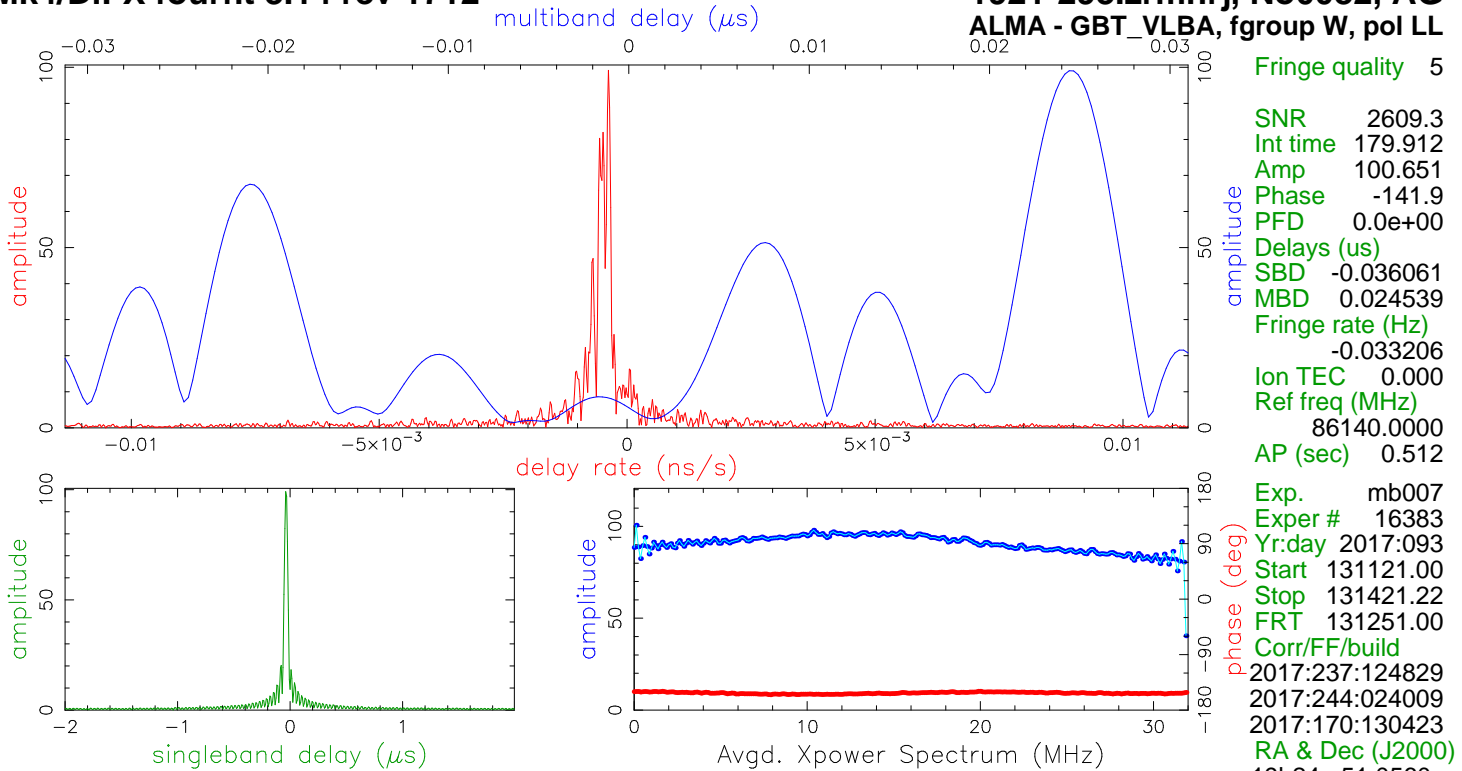
Fringe quality 4
 SNR 445.1
 Int time 179.902
 Amp 17.176
 Phase 24.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.086933
 MBD -0.026452
 Fringe rate (Hz)
 -0.040986
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512
 Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:023959
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

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

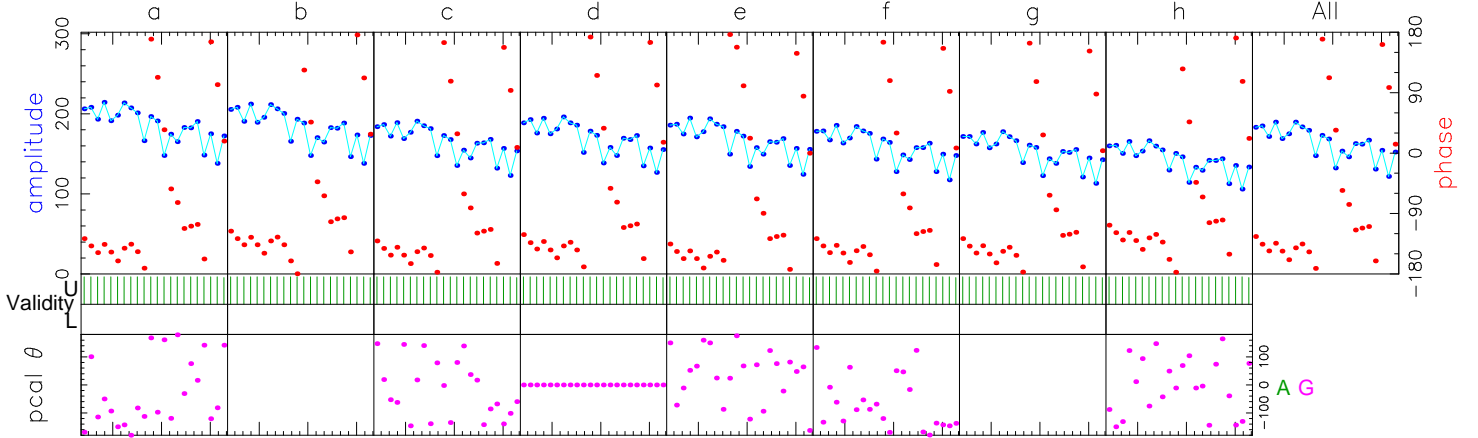


	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	7.9	28.7	26.2	37.1	32.1	36.7	7.1	15.5	Phase	24.0
	22.9	22.3	18.2	18.8	16.4	14.2	13.5	13.6	Ampl.	17.5
	246.0	246.1	245.8	245.9	245.8	245.7	245.7	245.9	Sbd box	245.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
f	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:f	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
f	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
f	W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	5.92525806845E+03		Apriori delay (usec)		5.92534702043E+03		Resid mbdelay (usec)		-2.64520E-02	+/- 5.5E-06
Sband delay (usec)	5.92526008793E+03		Apriori clock (usec)		-2.1048022E+03		Resid sbdelay (usec)		-8.69325E-02	+/- 3.9E-05
Phase delay (usec)	5.92534702121E+03		Apriori clockrate (us/s)		2.1828075E-06		Resid phdelay (usec)		7.73085E-07	+/- 8.3E-09
Delay rate (us/s)	-7.48180259422E-01		Apriori rate (us/s)		-7.48179783611E-01		Resid rate (us/s)		-4.75811E-07	+/- 8.0E-11
Total phase (deg)	146.4		Apriori accel (us/s/s)		6.74835170169E-06		Resid phase (deg)		24.0	+/- 0.3

RMS Theor. Amplitude 17.176 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 33.9 0.6 Search (1024X64) 16.237 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 26.5 1.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 ph/frq (deg) 13.2 0.4 Inc. seg. avg. 20.590 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 20.4 0.6 Inc. frq. avg. 17.487 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 A: az 250.7 el 62.2 pa 84.2 f: az 174.1 el 29.9 pa -5.5 u,v (fr/asec) 4902.872 -7221.921 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Af.zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Af.W.9.zrmnrj



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



86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
-142.5	-131.7	-147.5	-139.1	-153.9	-145.7	-146.9	-127.3	Phase	-141.9
111.6	110.8	99.6	102.2	101.1	96.6	92.8	86.7	Ampl.	100.2
252.3	252.4	252.3	252.4	252.3	252.3	252.5	252.7	Sbd box	252.4
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
G 4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
G W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	9.24815495972E+03	Apriori delay (usec)	9.24819292100E+03	Resid mbdelay (usec)	2.45387E-02	+/-	9.4E-07		
Sband delay (usec)	9.24815686000E+03	Apriori clock (usec)	-2.0944766E+03	Resid sbdelay (usec)	-3.60610E-02	+/-	6.6E-06		
Phase delay (usec)	9.24819291643E+03	Apriori clockrate (us/s)	1.5300000E-06	Resid phdelay (usec)	-4.57573E-06	+/-	1.4E-09		
Delay rate (us/s)	-2.98400828832E-01	Apriori rate (us/s)	-2.98400443338E-01	Resid rate (us/s)	-3.85494E-07	+/-	1.4E-11		
Total phase (deg)	-64.4	Apriori accel (us/s/s)	-4.70558005347E-06	Resid phase (deg)	-141.9	+/-	0.0		

ph/seg (deg) 68.2 0.1 Theor. Amplitude 100.651 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

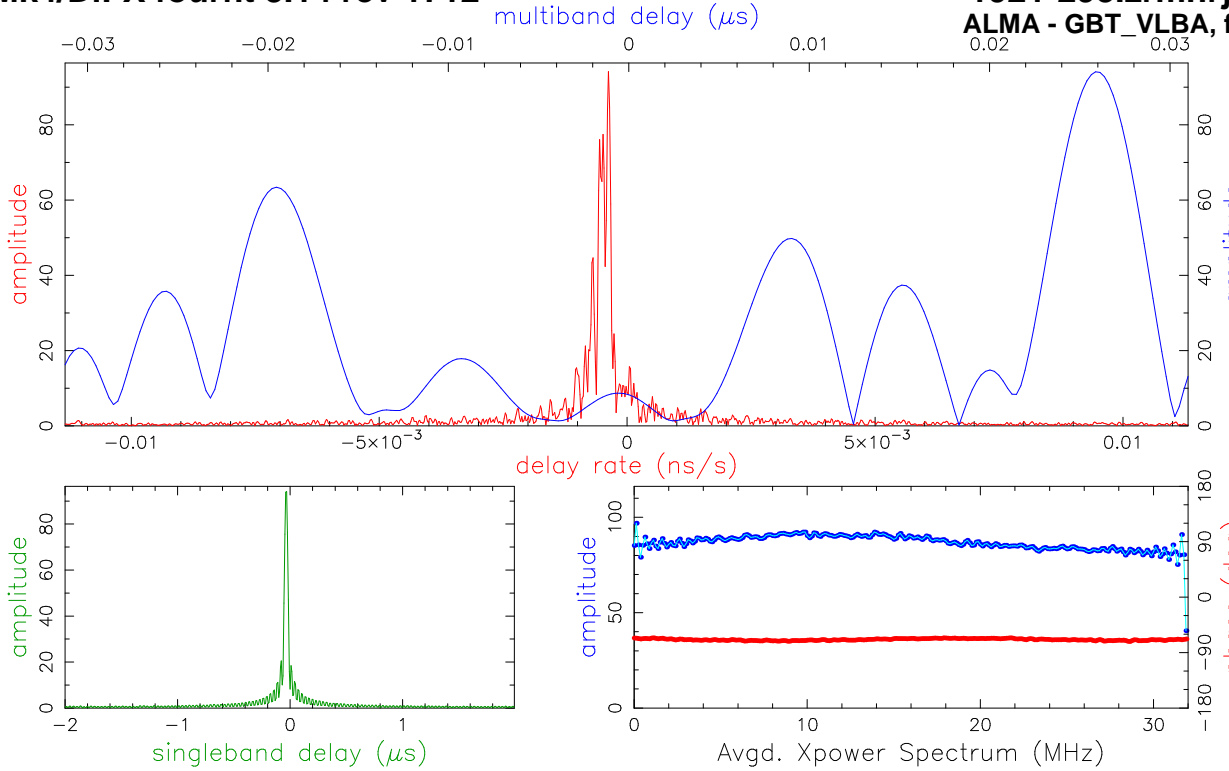
amp/seg (%) 65.4 0.2 Interp. Search (1024X64) 97.015 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000

ph/frq (deg) 9.5 0.1 Inc. seg. avg. 163.706 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031

amp/frq (%) 7.9 0.1 Inc. frq. avg. 100.172 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

A: az 250.7 el 62.2 pa 84.2 G: az 196.9 el 20.2 pa 15.5 u,v (fr/asec) 1938.939 -7597.389 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/mb007/gvma_32_pc1/1234/No0082/AG..zrmnrj Output file: /Exps/mb007/gvma_32_pc1/1234/No0082/AG.W.13.zrmnrj

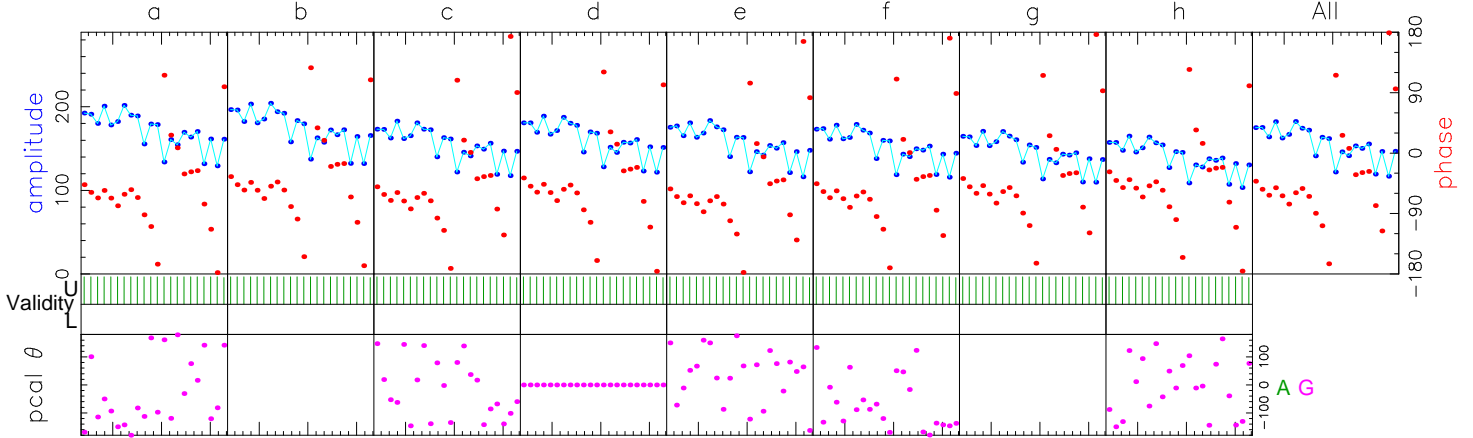


Fringe quality 5

SNR 2499.5
 Int time 179.912
 Amp 96.417
 Phase -59.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.035041
 MBD 0.025933
 Fringe rate (Hz)
 -0.033209
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512

Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024012
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

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

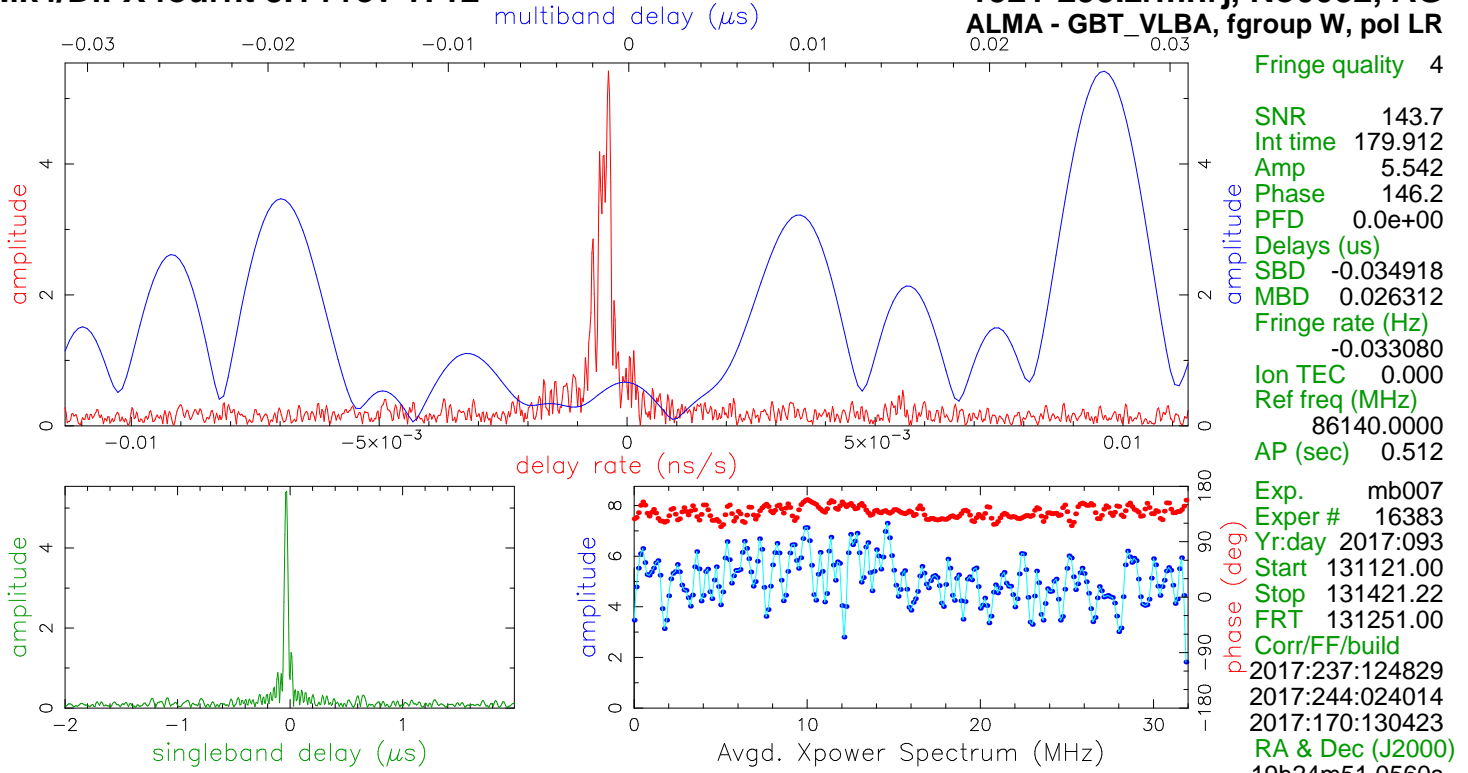


	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	-62.0	-50.4	-66.5	-54.4	-71.3	-64.1	-58.0	-49.2	Phase	-59.5
	103.4	104.8	93.7	96.9	94.6	92.7	88.5	84.9	Ampl.	94.9
	252.5	252.6	252.5	252.6	252.4	252.5	252.5	252.6	Sbd box	252.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
G	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:G	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
G	W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.24815635360E+03		Apriori delay (usec)		9.24819292100E+03		Resid mbdelay (usec)		2.59326E-02	+/- 9.8E-07
Sband delay (usec)	9.24815787950E+03		Apriori clock (usec)		-2.0944766E+03		Resid sbdelay (usec)		-3.50415E-02	+/- 6.9E-06
Phase delay (usec)	9.24819291909E+03		Apriori clockrate (us/s)		1.5300000E-06		Resid phdelay (usec)		-1.91895E-06	+/- 1.5E-09
Delay rate (us/s)	-2.98400828867E-01		Apriori rate (us/s)		-2.98400443338E-01		Resid rate (us/s)		-3.85529E-07	+/- 1.4E-11
Total phase (deg)	18.0		Apriori accel (us/s/s)		-4.70558005347E-06		Resid phase (deg)		-59.5	+/- 0.0

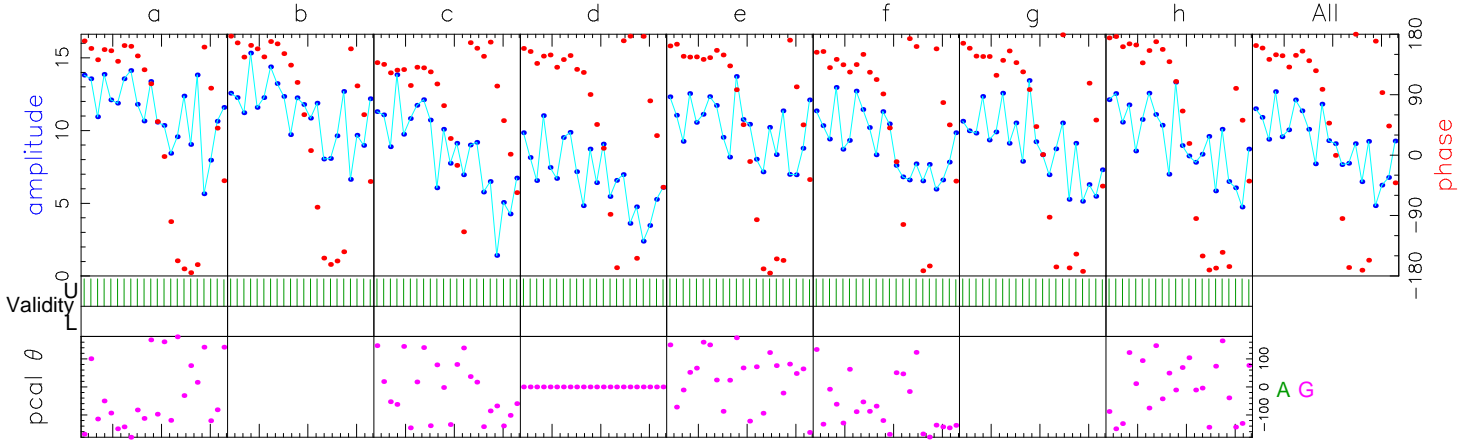
ph/seg (deg) 68.2 0.1 Theor. Amplitude 96.417 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 64.4 0.2 Search (1024X64) 91.205 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 8.5 0.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 amp/frq (%) 6.7 0.1 Inc. seg. avg. 155.545 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 94.939 simultaneous interpolator

A: az 250.7 el 62.2 pa 84.2 G: az 196.9 el 20.2 pa 15.5 u,v (fr/asec) 1938.939 -7597.389

Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/AG..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/AG.W.14.zrmnrj



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



86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
153.1	158.3	122.2	139.1	149.3	132.1	145.8	162.0	Phase	146.2
6.7	6.2	5.3	3.9	5.6	5.4	5.4	5.8	Ampl.	5.6
252.3	252.4	252.7	253.3	252.1	252.2	252.9	252.7	Sbd box	252.5
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
G 4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
G W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	9.24815673272E+03		Apriori delay (usec)	9.24819292100E+03		Resid mbdelay (usec)	2.63117E-02	+/-	1.7E-05
Sband delay (usec)	9.24815800300E+03		Apriori clock (usec)	-2.0944766E+03		Resid sbdelay (usec)	-3.49180E-02	+/-	1.2E-04
Phase delay (usec)	9.2481929257E+03		Apriori clockrate (us/s)	1.5300000E-06		Resid phdelay (usec)	4.71364E-06	+/-	2.6E-08
Delay rate (us/s)	-2.98400827367E-01		Apriori rate (us/s)	-2.98400443338E-01		Resid rate (us/s)	-3.84028E-07	+/-	2.5E-10
Total phase (deg)		223.7	Apriori accel (us/s/s)	-4.70558005347E-06		Resid phase (deg)	146.2	+/-	0.8

ph/seg (deg) 67.6 1.9 Theor. Amplitude 5.542 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

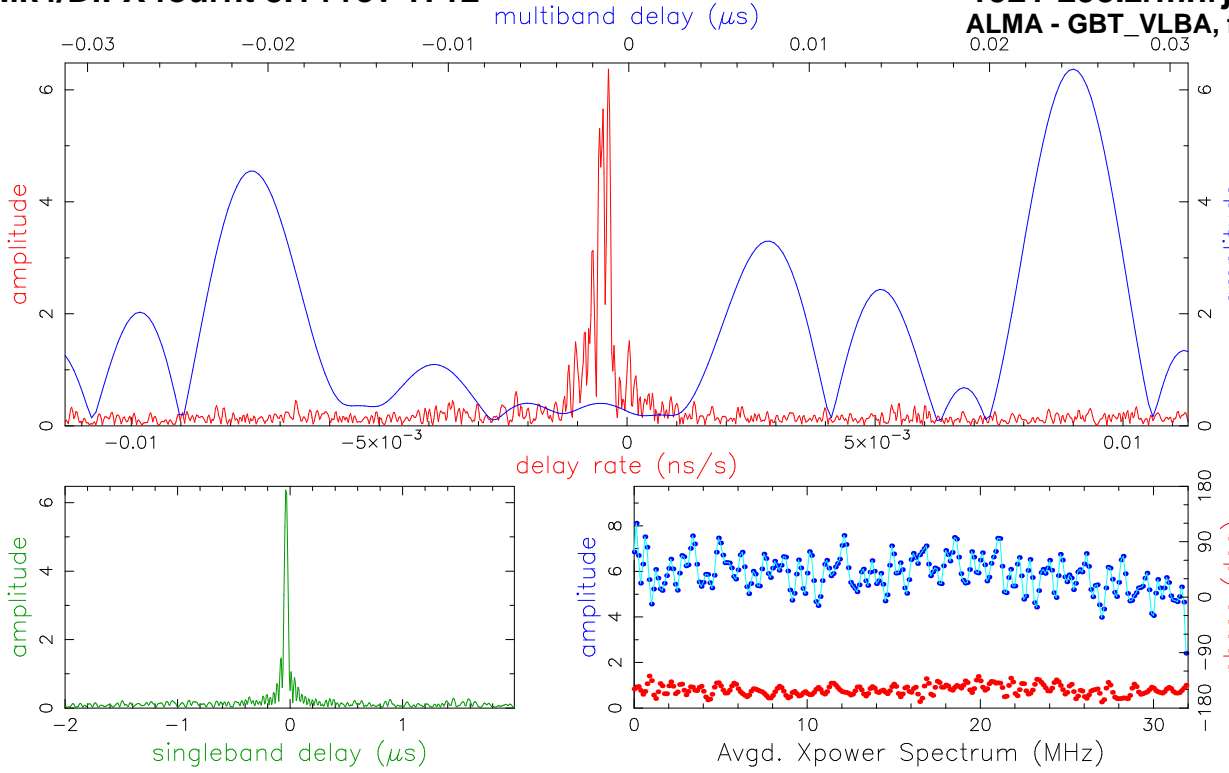
amp/seg (%) 75.9 3.3 Search (1024X64) 5.366 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000

ph/frq (deg) 14.6 1.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031

amp/frq (%) 13.7 2.0 Inc. seg. avg. 9.227 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

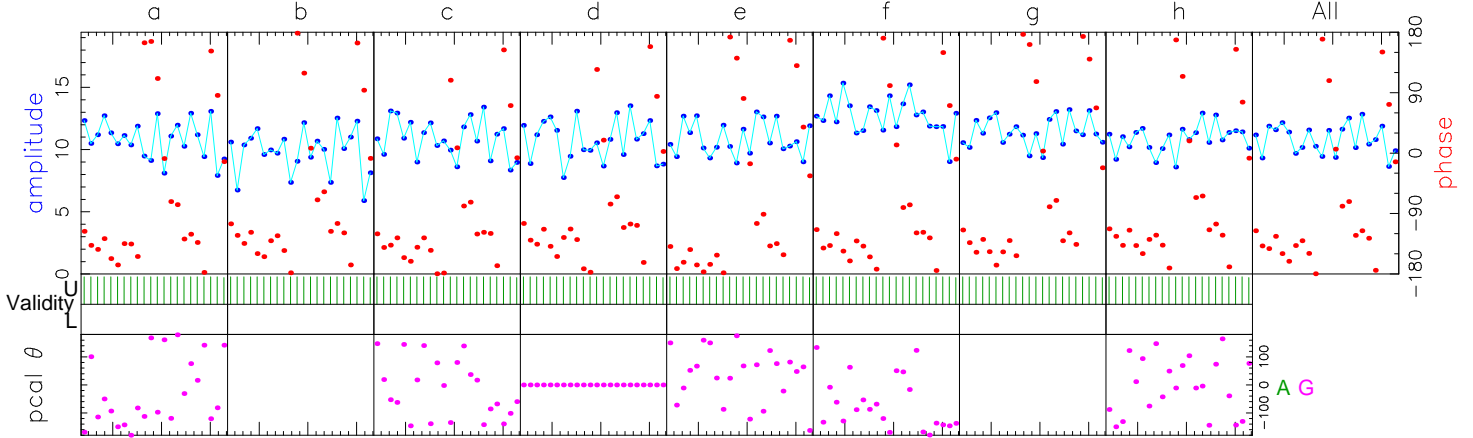
A: az 250.7 el 62.2 pa 84.2 G: az 196.9 el 20.2 pa 15.5 u,v (fr/asec) 1938.939 -7597.389 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/AG..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/AG.W.15.zrmnrj



Fringe quality 5
 SNR 168.0
 Int time 179.912
 Amp 6.479
 Phase -139.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.035898
 MBD 0.024630
 Fringe rate (Hz)
 -0.033098
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024016
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

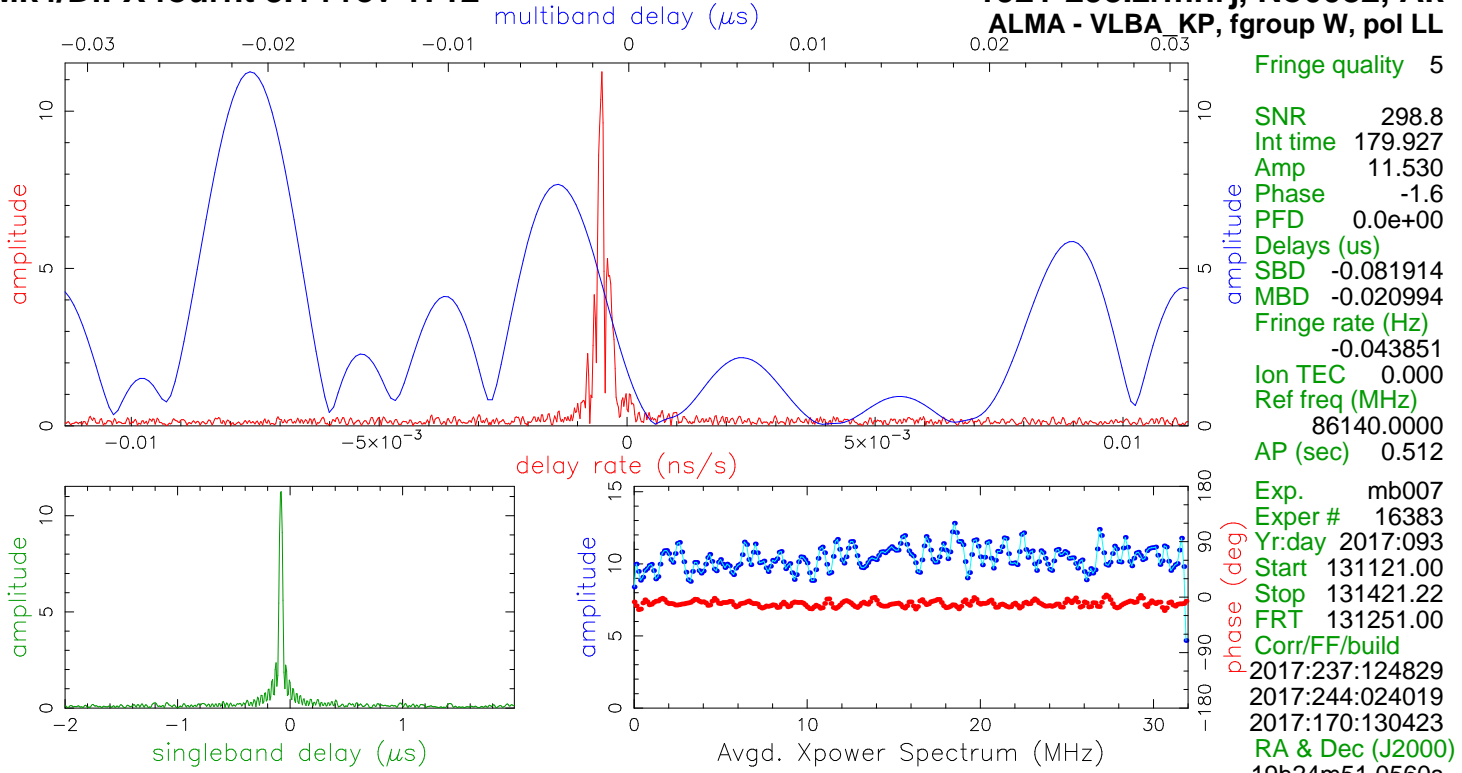
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



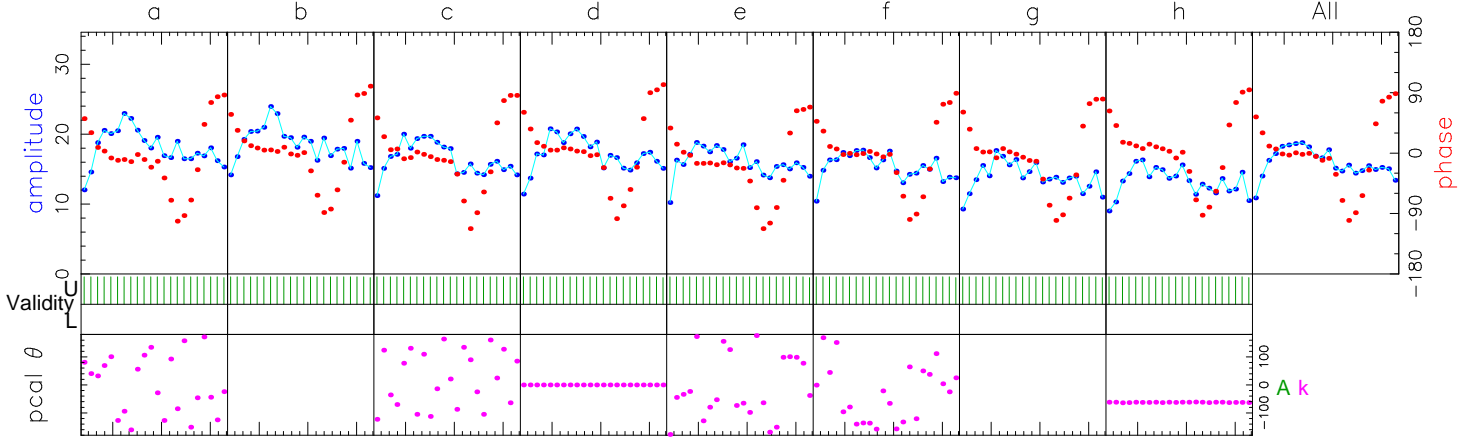
86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
-144.2	-133.4	-138.4	-129.2	-158.1	-138.5	-144.1	-131.2	Phase	-139.6
6.6	5.9	6.7	6.5	6.2	7.4	6.4	5.9	Ampl.	6.4
252.2	252.7	252.5	252.2	252.8	252.5	251.9	253.0	Sbd box	252.4
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
G 4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:G 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
G 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
G W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	9.24815505066E+03	Apriori delay (usec)	9.24819292100E+03	Resid mbdelay (usec)	2.46297E-02	+/-	1.5E-05		
Sband delay (usec)	9.24815702250E+03	Apriori clock (usec)	-2.0944766E+03	Resid sbdelay (usec)	-3.58985E-02	+/-	1.0E-04		
Phase delay (usec)	9.24819291650E+03	Apriori clockrate (us/s)	1.5300000E-06	Resid phdelay (usec)	-4.50321E-06	+/-	2.2E-08		
Delay rate (us/s)	-2.98400827576E-01	Apriori rate (us/s)	-2.98400443338E-01	Resid rate (us/s)	-3.84238E-07	+/-	2.1E-10		
Total phase (deg)	-62.1	Apriori accel (us/s/s)	-4.70558005347E-06	Resid phase (deg)	-139.6	+/-	0.7		

ph/seg (deg) 64.9 1.6 Theor. Amplitude 6.479 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 69.7 2.8 Search (1024X64) 6.226 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 10.0 1.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 amp/frq (%) 7.0 1.7 Inc. seg. avg. 10.843 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 6.444 ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 G: az 196.9 el 20.2 pa 15.5 u,v (fr/asec) 1938.939 -7597.389 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/AG..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/AG.W.16.zrmnrj



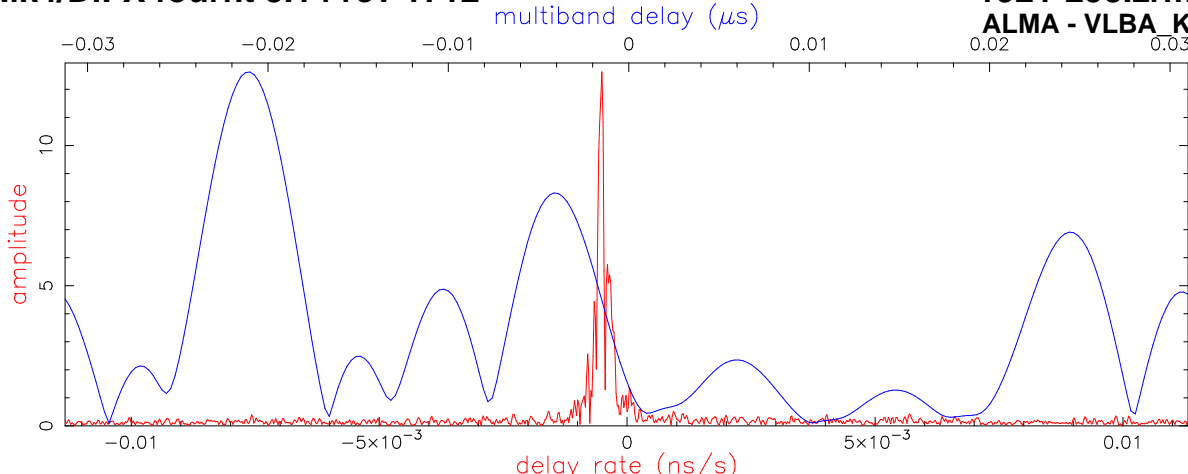
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
-6.8	4.6	-3.0	5.3	-14.5	0.1	-3.9	6.0	Phase	-1.6
12.6	13.2	11.6	11.8	11.4	11.1	9.6	9.4	Ampl.	11.3
246.4	246.6	246.5	246.5	246.6	246.7	246.6	246.4	Sbd box	246.5
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
k 4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:k 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
k W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	6.68102293004E+03	Apriori delay (usec)	6.68110642431E+03	Resid mbdelay (usec)	-2.09943E-02	+/-	8.2E-06		
Sband delay (usec)	6.68102451031E+03	Apriori clock (usec)	-2.1025950E+03	Resid sbdelay (usec)	-8.19140E-02	+/-	5.8E-05		
Phase delay (usec)	6.68110642426E+03	Apriori clockrate (us/s)	1.7640192E-06	Resid phdelay (usec)	-5.08804E-08	+/-	1.2E-08		
Delay rate (us/s)	-8.98682815313E-01	Apriori rate (us/s)	-8.98682306241E-01	Resid rate (us/s)	-5.09072E-07	+/-	1.2E-10		
Total phase (deg)	138.9	Apriori accel (us/s/s)	3.82630710692E-06	Resid phase (deg)	-1.6	+/-	0.4		

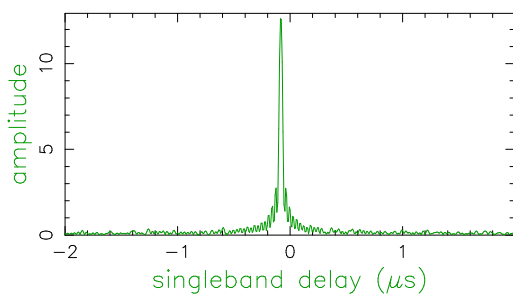
ph/seg (deg) 50.1 0.9 Theor. Amplitude 11.530 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 42.0 1.6 Search (1024X64) 11.057 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 7.6 0.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 amp/frq (%) 10.8 0.9 Inc. seg. avg. 15.965 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 11.335 simultaneous interpolator

A: az 250.7 el 62.2 pa 84.2 k: az 166.7 el 27.5 pa -12.7 u,v (fr/asec) 5886.845 -7241.816
 Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ak...zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ak.W.17.zrmnrj

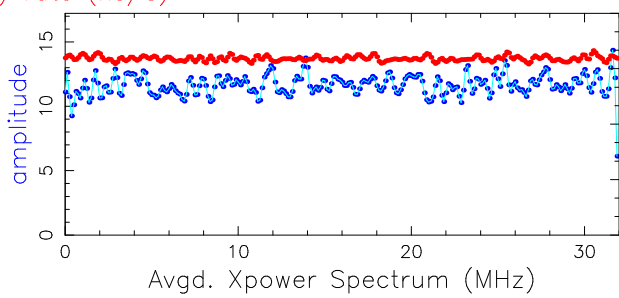


Fringe quality 5

SNR 335.4
 Int time 179.928
 Amp 12.942
 Phase 114.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.082182
 MBD -0.021069
 Fringe rate (Hz)
 -0.043929
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

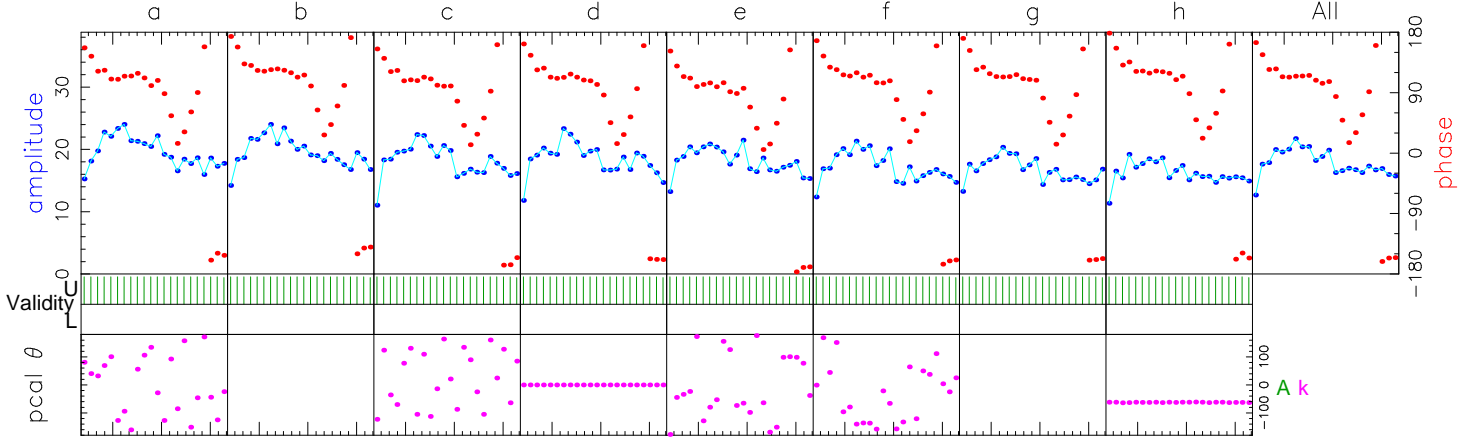


delay rate (ns/s)



Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024021
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

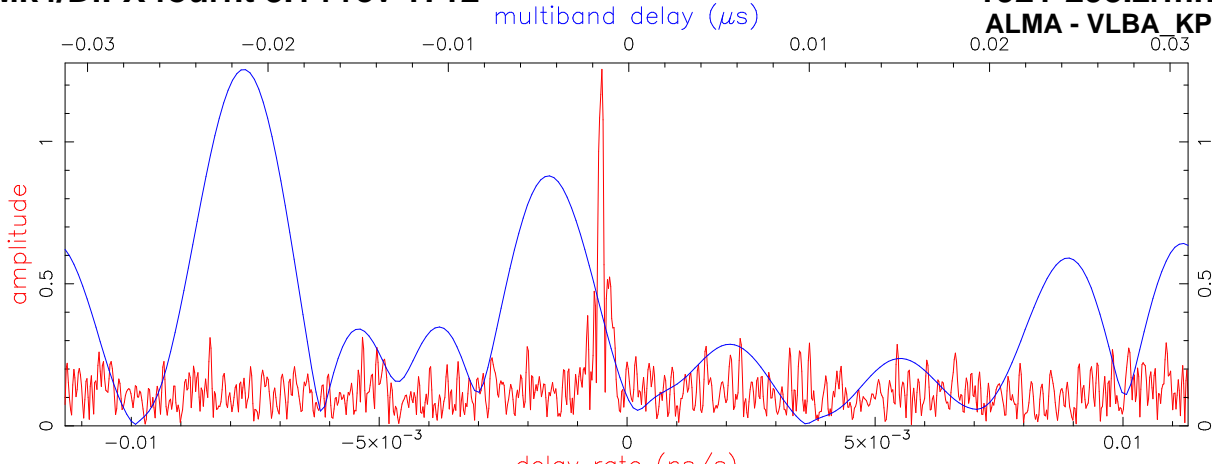
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	114.1	124.1	110.1	113.9	101.6	115.3	115.9	121.3	Phase	114.5
	14.0	13.8	12.9	13.0	12.8	12.4	11.6	11.2	Ampl.	12.7
	246.4	246.6	246.4	246.4	246.6	246.7	246.4	246.4	Sbd box	246.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
k	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.68102285492E+03		Apriori delay (usec)		6.68110642431E+03		Resid mbdelay (usec)		-2.10694E-02	+/- 7.3E-06
Sband delay (usec)	6.68102424181E+03		Apriori clock (usec)		-2.1025950E+03		Resid sbdelay (usec)		-8.21825E-02	+/- 5.1E-05
Phase delay (usec)	6.68110642800E+03		Apriori clockrate (us/s)		1.7640192E-06		Resid phdelay (usec)		3.69255E-06	+/- 1.1E-08
Delay rate (us/s)	-8.98682816213E-01		Apriori rate (us/s)		-8.98682306241E-01		Resid rate (us/s)		-5.09972E-07	+/- 1.1E-10
Total phase (deg)	255.0		Apriori accel (us/s/s)		3.82630710692E-06		Resid phase (deg)		114.5	+/- 0.3

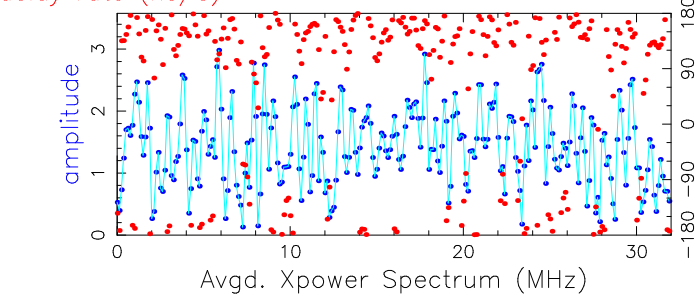
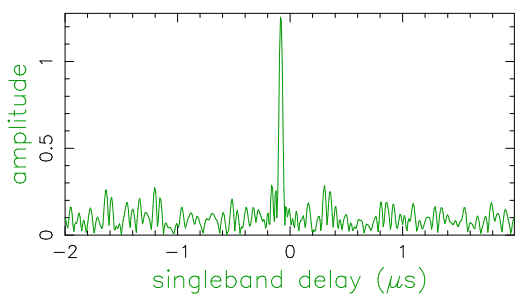
ph/seg (deg) 49.9 0.8 Theor. Amplitude 12.942 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 41.3 1.4 Search (1024X64) 12.386 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 7.4 0.5 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 amp/frq (%) 7.2 0.8 Inc. seg. avg. 17.883 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 12.719 simultaneous interpolator

A: az 250.7 el 62.2 pa 84.2 k: az 166.7 el 27.5 pa -12.7 u,v (fr/asec) 5886.845 -7241.816
 Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ak..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ak.W.18.zrmnrj



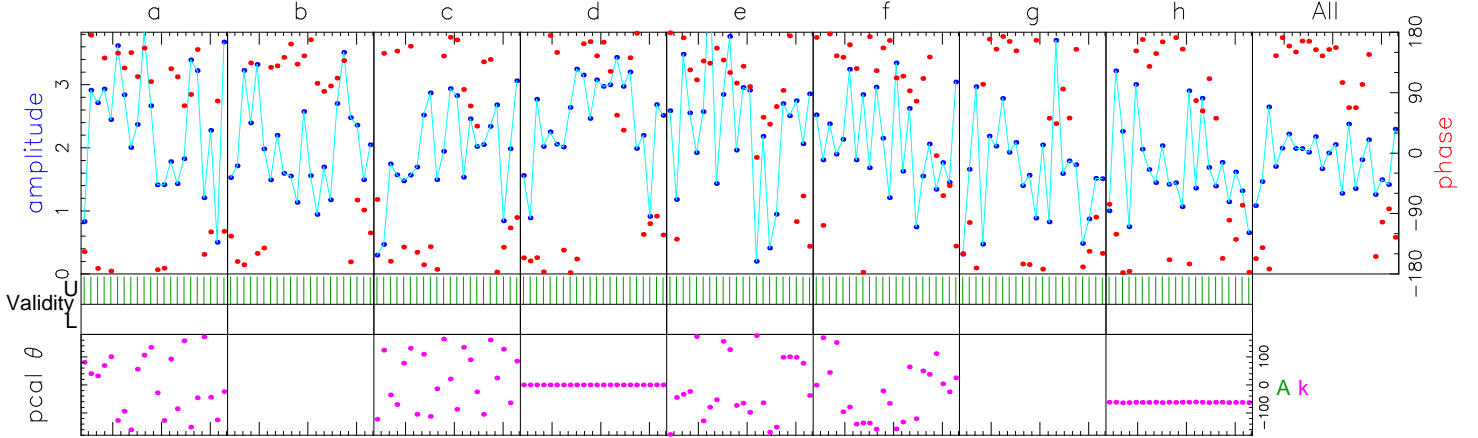
Fringe quality 6

SNR 33.1
 Int time 179.928
 Amp 1.278
 Phase 162.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.082636
 MBD -0.021370
 Fringe rate (Hz)
 -0.043632
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024024
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

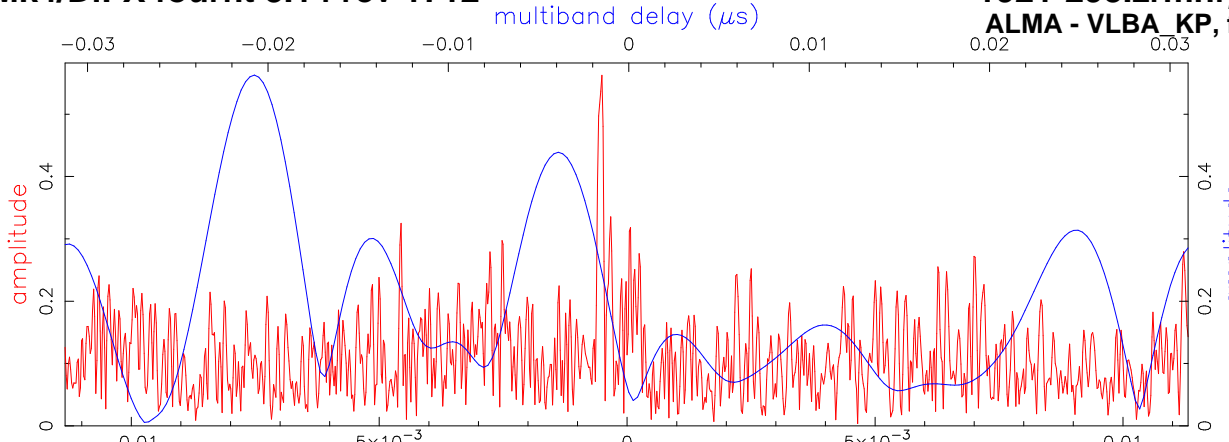
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



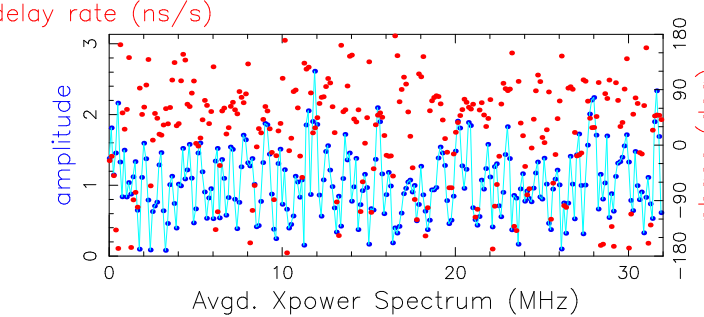
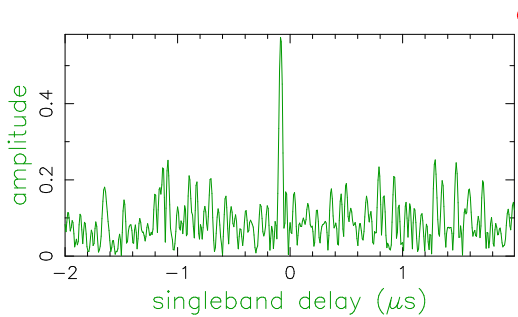
	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
U/L	154.0	168.6	178.1	176.3	139.2	152.3	167.1	174.8	Phase	162.7
A	1.7	1.3	1.2	1.5	1.5	1.3	0.9	1.0	Ampl.	1.3
k	4000	0	5000	4000	2000	1000	0	2000	Sbd box	246.4
A:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
A:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
k	1000	1000	1000	1000	1000	1000	1000	1000	Manl PC	
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
k	W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	6.68102255436E+03		Apriori delay (usec)		6.68110642431E+03		Resid mbdelay (usec)		-2.13700E-02	+/- 7.4E-05
Sband delay (usec)	6.68102378781E+03		Apriori clock (usec)		-2.1025950E+03		Resid sbdelay (usec)		-8.26365E-02	+/- 5.2E-04
Phase delay (usec)	6.68110642956E+03		Apriori clockrate (us/s)		1.7640192E-06		Resid phdelay (usec)		5.24803E-06	+/- 1.1E-07
Delay rate (us/s)	-8.98682812761E-01		Apriori rate (us/s)		-8.98682306241E-01		Resid rate (us/s)		-5.06519E-07	+/- 1.1E-09
Total phase (deg)	303.2		Apriori accel (us/s/s)		3.82630710692E-06		Resid phase (deg)		162.7	+/- 3.5

	RMS	Theor.	Amplitude	1.278 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	52.6	8.1	Search (1024X64)	1.248	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-2.000 2.000	
amp/seg (%)	53.6	14.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.031 0.031
ph/frq (deg)	15.0	4.9	Inc. seg. avg.	1.813	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.011 0.011
amp/frq (%)	19.0	8.5	Inc. frq. avg.	1.286	Data rate(Mb/s): 1024	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

A: az 250.7 el 62.2 pa 84.2 k: az 166.7 el 27.5 pa -12.7 u,v (fr/asec) 5886.845 -7241.816 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ak..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ak.W.19.zrmnrj

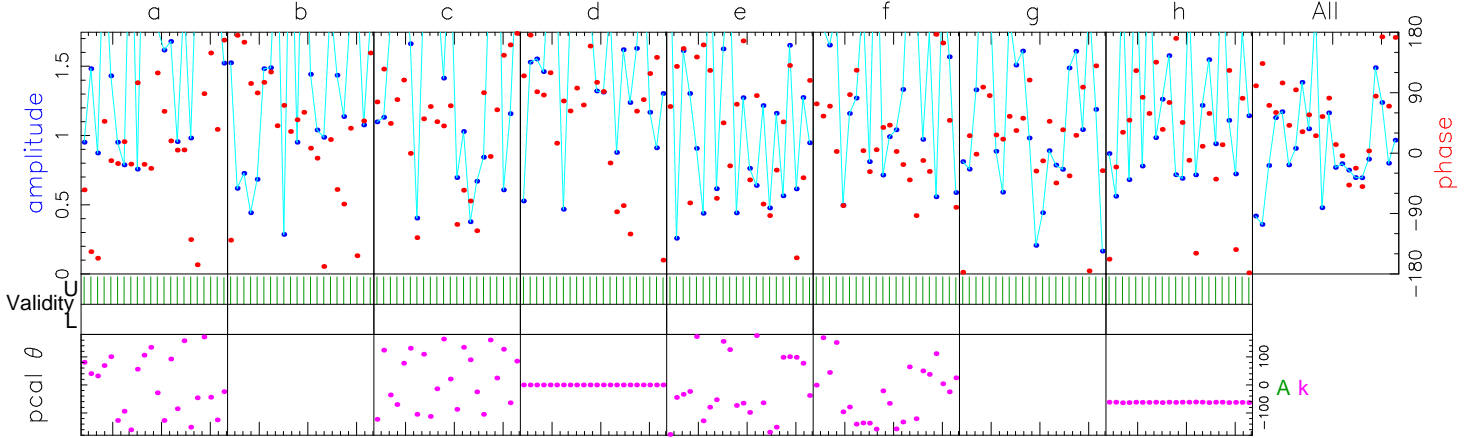


Fringe quality 8
 SNR 15.1
 Int time 179.927
 Amp 0.582
 Phase 56.2
 PFD 1.2e-42
 Delays (us)
 SBD -0.082879
 MBD -0.020843
 Fringe rate (Hz)
 -0.043187
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024027
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

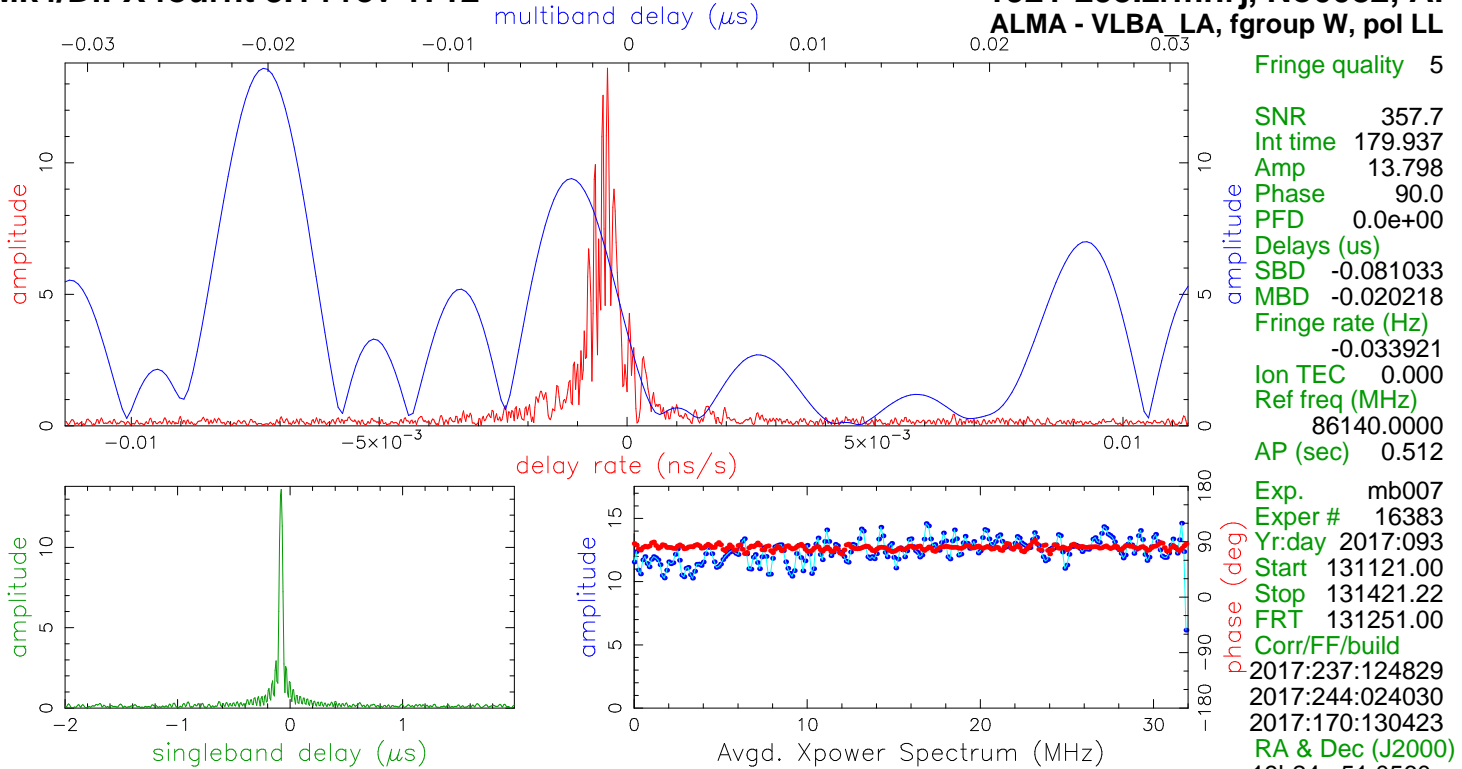
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	21.4	57.3	66.8	94.5	80.9	14.5	57.2	61.2	Phase	56.2
	0.6	0.5	0.9	0.7	0.2	0.7	0.7	0.6	Ampl.	0.6
	145.8	137.0	246.0	246.9	164.9	247.5	459.7	246.9	Sbd box	246.4
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
k	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:k	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
k	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
k	W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.68102308117E+03		Apriori delay (usec)		6.68110642431E+03		Resid mbdelay (usec)		-2.08431E-02	+/- 1.6E-04
Sband delay (usec)	6.68102354481E+03		Apriori clock (usec)		-2.1025950E+03		Resid sbdelay (usec)		-8.28795E-02	+/- 1.1E-03
Phase delay (usec)	6.68110642612E+03		Apriori clockrate (us/s)		1.7640192E-06		Resid phdelay (usec)		1.81298E-06	+/- 2.4E-07
Delay rate (us/s)	-8.98682807601E-01		Apriori rate (us/s)		-8.98682306241E-01		Resid rate (us/s)		-5.01360E-07	+/- 2.4E-09
Total phase (deg)	196.7		Apriori accel (us/s/s)		3.82630710692E-06		Resid phase (deg)		56.2	+/- 7.6

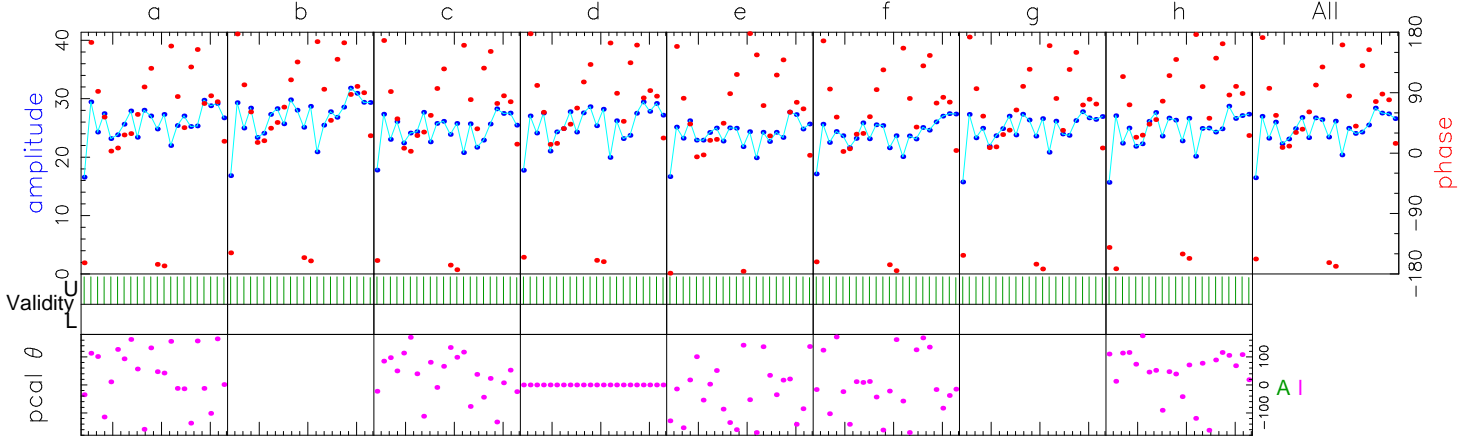
RMS Theor. Amplitude 0.582 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 59.8 17.8 Search (1024X64) 0.555 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 86.4 31.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 ph/frq (deg) 29.3 10.7 Inc. seg. avg. 0.893 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 31.9 18.7 Inc. frq. avg. 0.612 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 k: az 166.7 el 27.5 pa -12.7 u,v (fr/asec) 5886.845 -7241.816 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ak...zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ak.W.20.zrmnrj



Fringe quality 5
SNR 357.7
Int time 179.937
Amp 13.798
Phase 90.0
PFD 0.0e+00
Delays (us)
SBD -0.081033
MBD -0.020218
Fringe rate (Hz)
-0.033921
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512
Exp. mb007
Exper # 16383
Yr:day 2017:093
Start 131121.00
Stop 131421.22
FRT 131251.00
Corr/FF/build
2017:237:124829
2017:244:024030
2017:170:130423
RA & Dec (J2000)
19h24m51.0560s
-29°14'30.121"

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



	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	87.4	98.4	86.6	96.2	75.3	85.5	86.6	102.1	Phase	90.0
	14.2	15.0	13.3	14.2	13.1	13.1	13.4	13.6	Ampl.	13.7
	246.5	246.8	246.6	246.6	246.5	246.7	246.7	246.8	Sbd box	246.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
I	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
I	W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.67630163394E+03		Apriori delay (usec)		7.67638435221E+03		Resid mbdelay (usec)		-2.02183E-02	+/- 6.8E-06
Sband delay (usec)	7.67630331921E+03		Apriori clock (usec)		-2.1013105E+03		Resid sbdelay (usec)		-8.10330E-02	+/- 4.8E-05
Phase delay (usec)	7.67638435511E+03		Apriori clockrate (us/s)		1.8626131E-06		Resid phdelay (usec)		2.90245E-06	+/- 1.0E-08
Delay rate (us/s)	-7.86146820922E-01		Apriori rate (us/s)		-7.86146427131E-01		Resid rate (us/s)		-3.93791E-07	+/- 9.9E-11
Total phase (deg)	125.8		Apriori accel (us/s/s)		1.58542064681E-06		Resid phase (deg)		90.0	+/- 0.3

ph/seg (deg) 61.5 0.8
amp/seg (%) 81.9 1.3
ph/frq (deg) 9.3 0.5
amp/frq (%) 4.4 0.8

RMS Theor. Amplitude 13.798 +/- 0.039
61.5 0.8 Search (1024X64) 13.299
81.9 1.3 Interp. 0.000
9.3 0.5 Inc. seg. avg. 24.784
4.4 0.8 Inc. frq. avg. 13.740

Group delay (usec)(sbd) 7.67630163394E+03
Sband delay (usec) 7.67630331921E+03
Phase delay (usec) 7.67638435511E+03
Delay rate (us/s) -7.86146820922E-01
Total phase (deg) 125.8

Apriori delay (usec) 7.67638435221E+03
Apriori clock (usec) -2.1013105E+03
Apriori clockrate (us/s) 1.8626131E-06
Apriori rate (us/s) -7.86146427131E-01
Apriori accel (us/s/s) 1.58542064681E-06

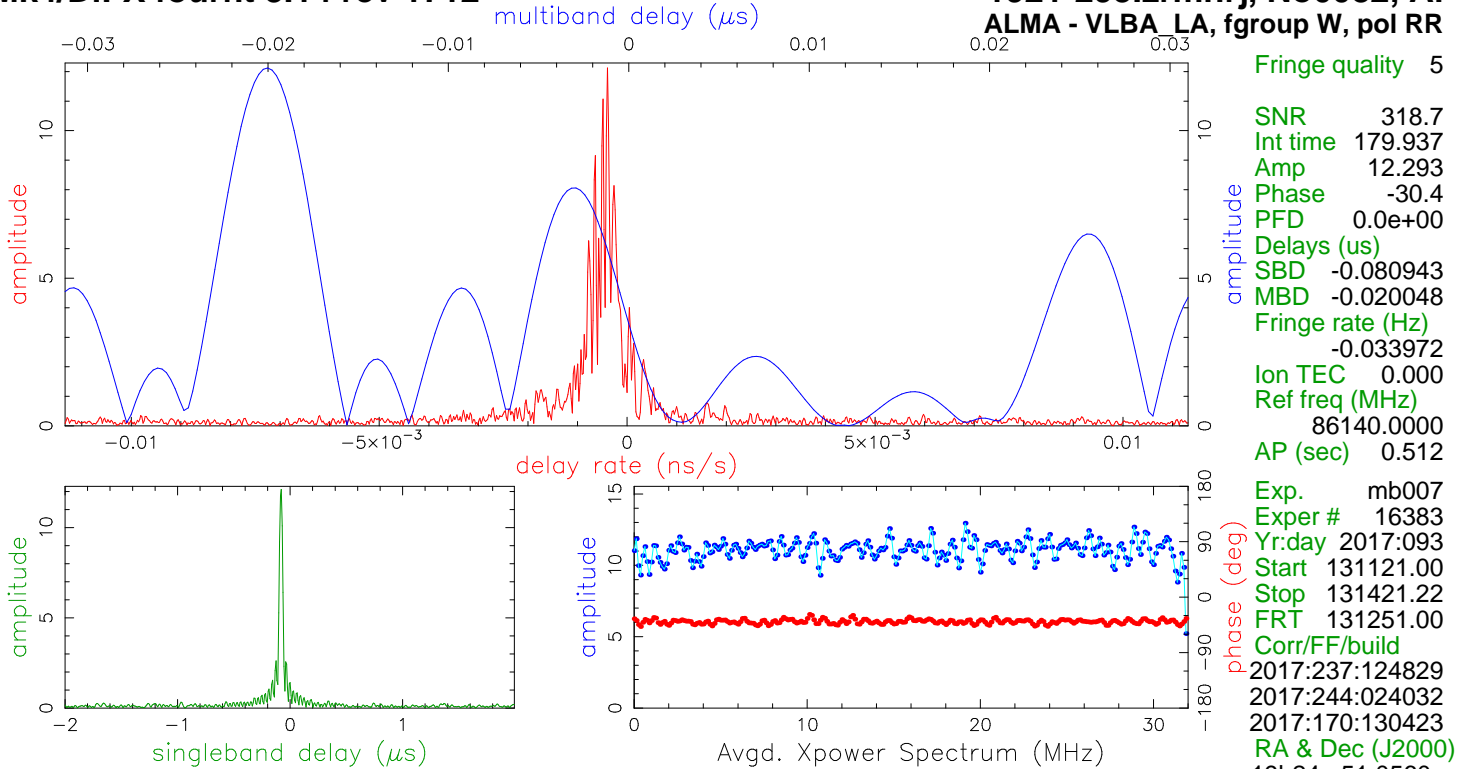
Resid mbdelay (usec) -2.02183E-02 +/- 6.8E-06
Resid sbdelay (usec) -8.10330E-02 +/- 4.8E-05
Resid phdelay (usec) 2.90245E-06 +/- 1.0E-08
Resid rate (us/s) -3.93791E-07 +/- 9.9E-11
Resid phase (deg) 90.0 +/- 0.3

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2 SampCntNorm: enabled
Sample rate(MSamp/s): 64
Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite

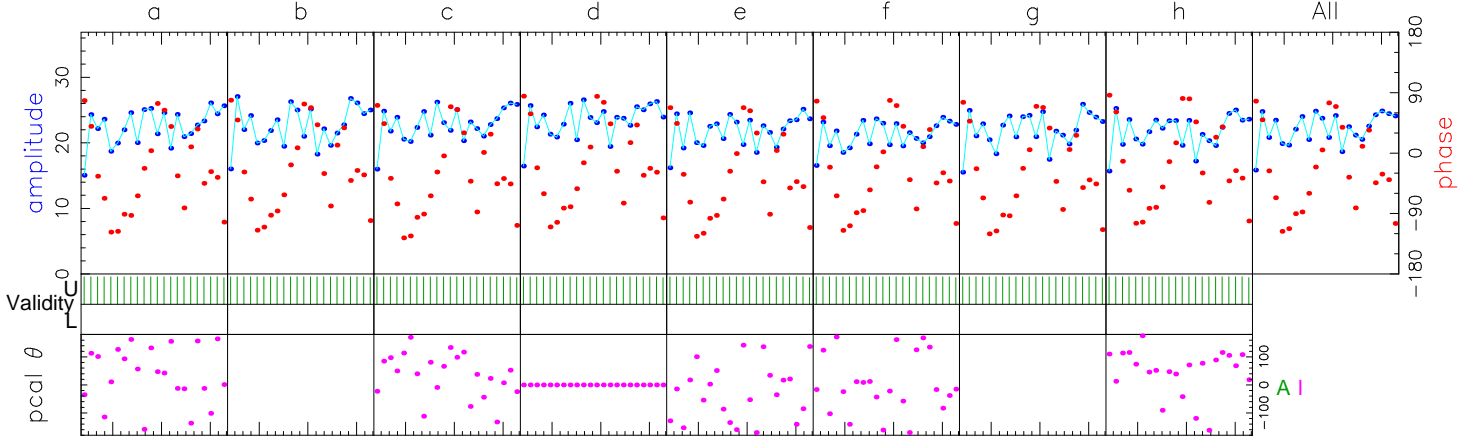
sb window (us) -2.000 2.000
mb window (us) -0.031 0.031
dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 I: az 172.2 el 24.6 pa -7.0 u,v (fr/asec) 5145.543 -7574.395 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/AI..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/AI.W.21.zrmnrj



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



86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
-30.9	-26.7	-37.2	-22.5	-38.6	-29.4	-34.5	-23.5	Phase	-30.4
12.5	12.5	12.5	12.9	11.9	11.6	11.9	11.7	Ampl.	12.2
246.6	246.6	246.8	246.6	246.6	246.7	246.6	246.7	Sbd box	246.6
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
I 4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:I 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:I 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	7.67630180400E+03	Apriori delay (usec)	7.67638435221E+03	Resid mbdelay (usec)	-2.00482E-02	+/-	7.7E-06		
Sband delay (usec)	7.67630340921E+03	Apriori clock (usec)	-2.1013105E+03	Resid sbdelay (usec)	-8.09430E-02	+/-	5.4E-05		
Phase delay (usec)	7.67638435123E+03	Apriori clockrate (us/s)	1.8626131E-06	Resid phdelay (usec)	-9.79465E-07	+/-	1.2E-08		
Delay rate (us/s)	-7.86146821509E-01	Apriori rate (us/s)	-7.86146427131E-01	Resid rate (us/s)	-3.94378E-07	+/-	1.1E-10		
Total phase (deg)		Apriori accel (us/s/s)	1.58542064681E-06	Resid phase (deg)	-30.4	+/-	0.4		

ph/seg (deg) 61.2 0.8
 amp/seg (%) 82.6 1.5
 ph/frq (deg) 6.5 0.5
 amp/frq (%) 3.7 0.9

RMS Theor. Amplitude 12.293 +/- 0.039
 Search (1024X64) 11.761
 Interp. 0.000
 Inc. seg. avg. 22.174
 Inc. frq. avg. 12.189

Group delay (usec)(sbd) 7.67630180400E+03
 Sband delay (usec) 7.67630340921E+03
 Phase delay (usec) 7.67638435123E+03
 Delay rate (us/s) -7.86146821509E-01
 Total phase (deg) 5.4

Apriori delay (usec) 7.67638435221E+03
 Apriori clock (usec) -2.1013105E+03
 Apriori clockrate (us/s) 1.8626131E-06
 Apriori rate (us/s) -7.86146427131E-01
 Apriori accel (us/s/s) 1.58542064681E-06

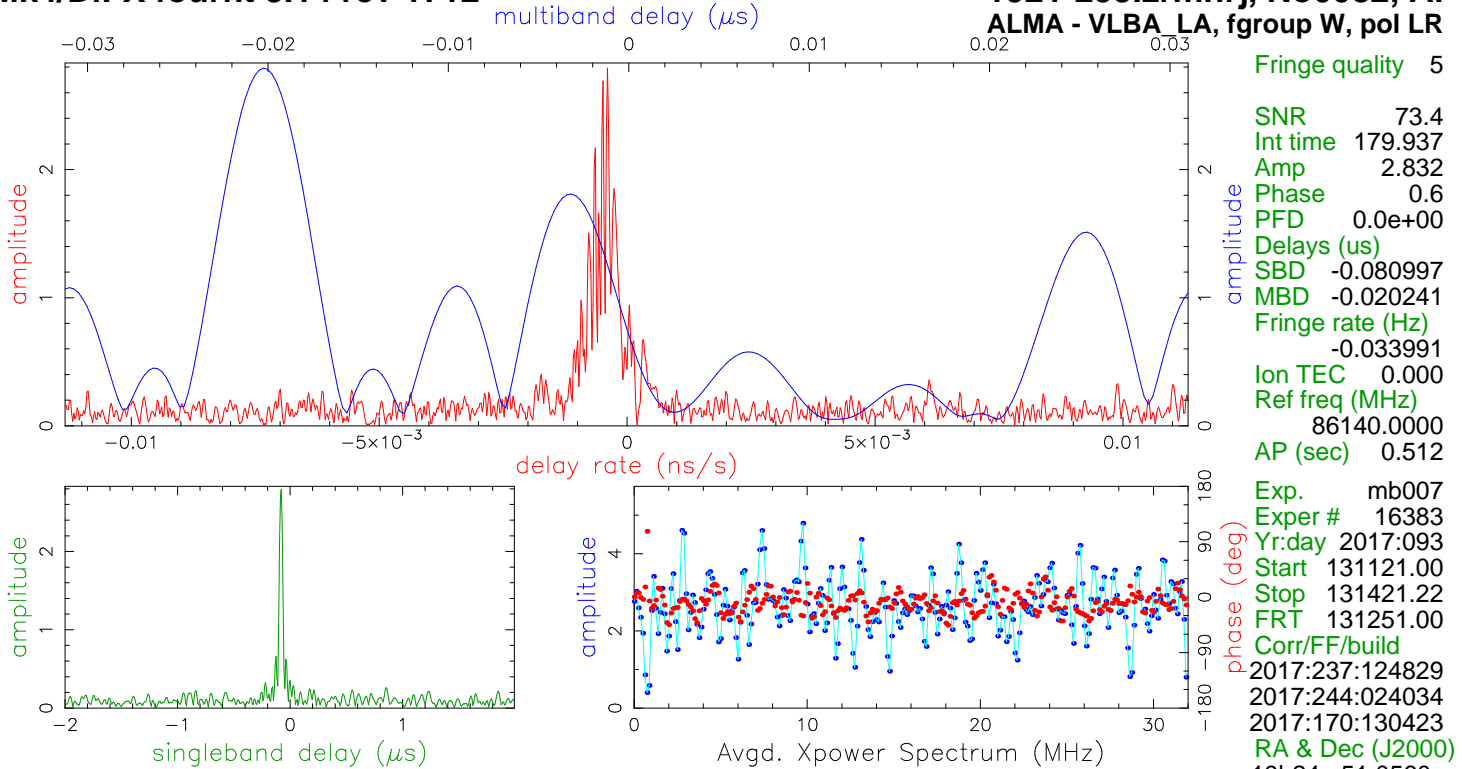
Resid mbdelay (usec) -2.00482E-02 +/- 7.7E-06
 Resid sbdelay (usec) -8.09430E-02 +/- 5.4E-05
 Resid phdelay (usec) -9.79465E-07 +/- 1.2E-08
 Resid rate (us/s) -3.94378E-07 +/- 1.1E-10
 Resid phase (deg) -30.4 +/- 0.4

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Sample rate(MSamp/s): 64
 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite

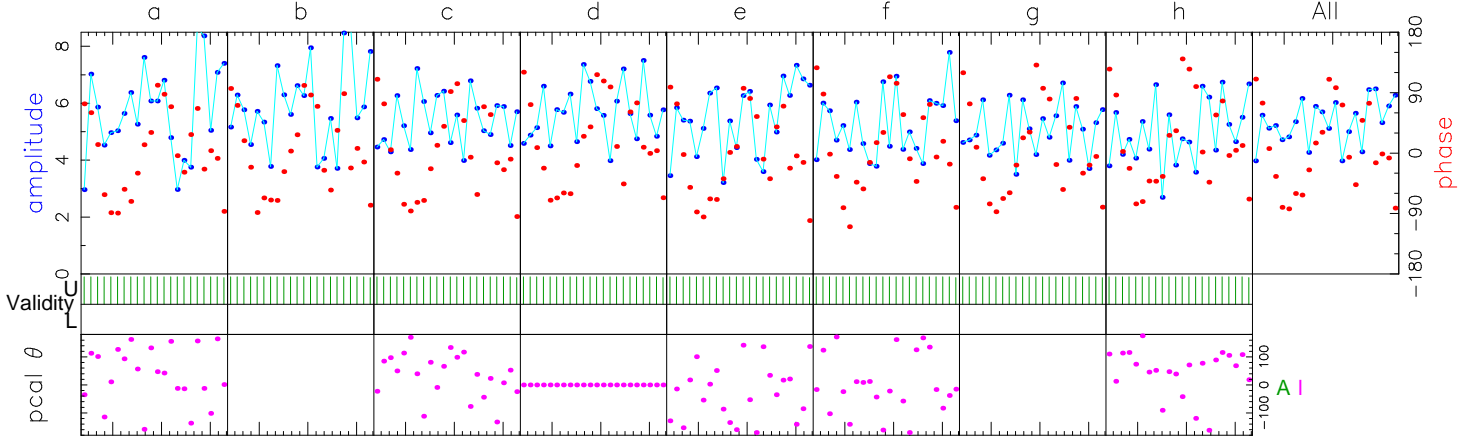
sb window (us) -2.000 2.000
 mb window (us) -0.031 0.031
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 I: az 172.2 el 24.6 pa -7.0 u,v (fr/asec) 5145.543 -7574.395 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/AI..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/AI.W.22.zrmnrj



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

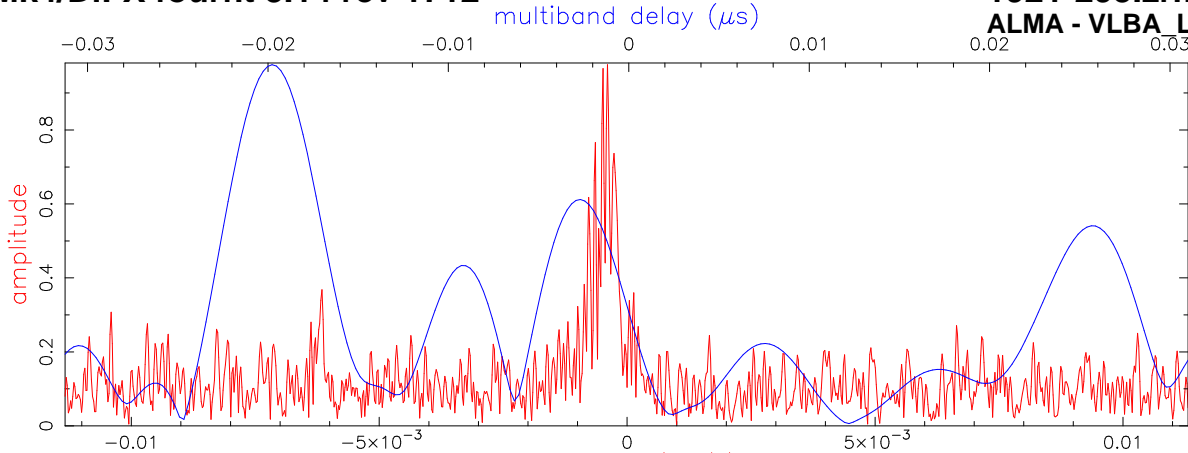


	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	1.1	1.0	-6.4	7.6	-6.7	6.3	-4.0	5.7	Phase	0.6
	3.1	3.0	2.8	3.1	2.9	2.7	2.4	2.5	Ampl.	2.8
	246.6	246.3	246.6	246.7	246.8	246.7	246.6	246.8	Sbd box	246.6
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
I	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
I	W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		7.67630161163E+03		Apriori delay (usec)		7.67638435221E+03		Resid mbdelay (usec)	-2.02406E-02	+/- 3.3E-05
Sband delay (usec)		7.67630335521E+03		Apriori clock (usec)		-2.1013105E+03		Resid sbdelay (usec)	-8.09970E-02	+/- 2.3E-04
Phase delay (usec)		7.67638435223E+03		Apriori clockrate (us/s)		1.8626131E-06		Resid phdelay (usec)	1.98334E-08	+/- 5.0E-08
Delay rate (us/s)		-7.86146821734E-01		Apriori rate (us/s)		-7.86146427131E-01		Resid rate (us/s)	-3.94603E-07	+/- 4.8E-10
Total phase (deg)			36.4	Apriori accel (us/s/s)		1.58542064681E-06		Resid phase (deg)	0.6	+/- 1.6

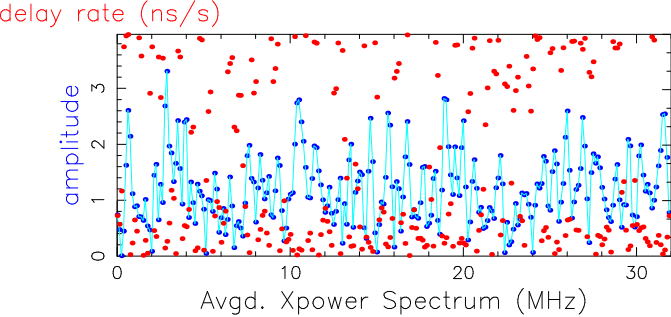
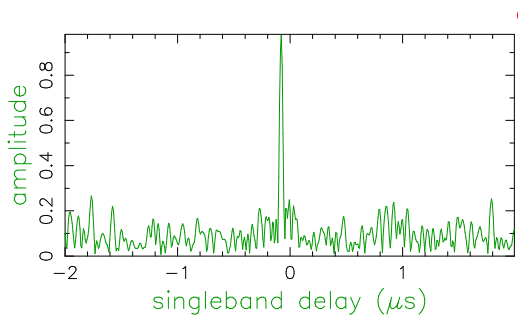
RMS Theor. Amplitude 2.832 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 62.2 3.7 Search (1024X64) 2.739 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 92.3 6.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 ph/frq (deg) 6.2 2.2 Inc. seg. avg. 5.325 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 8.9 3.9 Inc. frq. avg. 2.803 ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 I: az 172.2 el 24.6 pa -7.0 u,v (fr/asec) 5145.543 -7574.395 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/AI..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/AI.W.23.zrmnrj

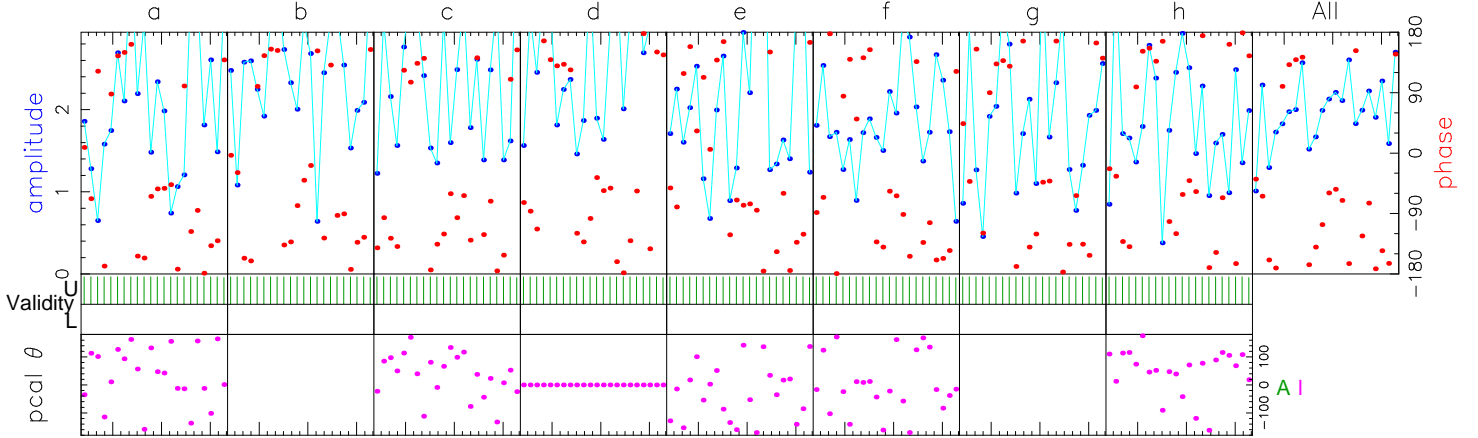


Fringe quality 7
 SNR 25.4
 Int time 179.937
 Amp 0.981
 Phase -150.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.079682
 MBD -0.019755
 Fringe rate (Hz)
 -0.034295
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512

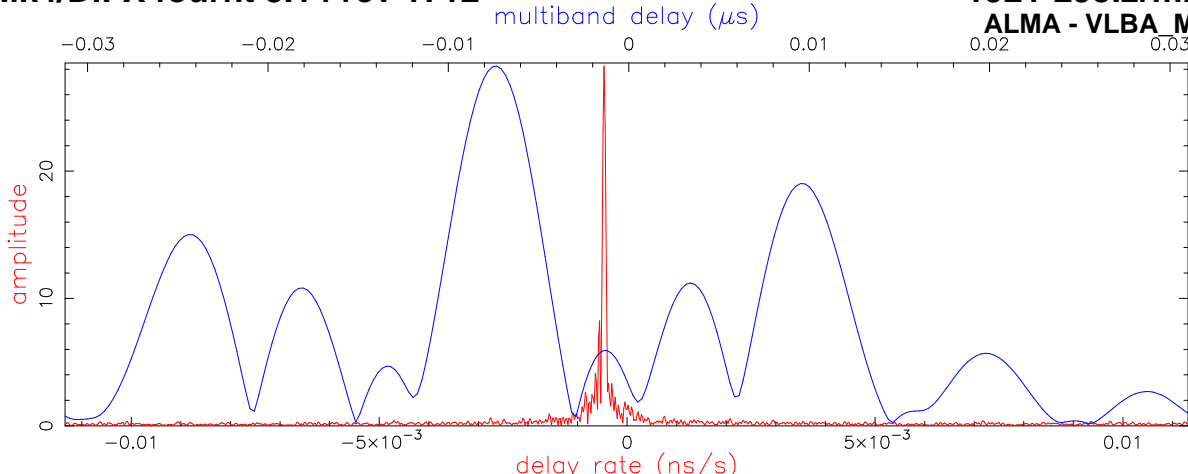


Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024037
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

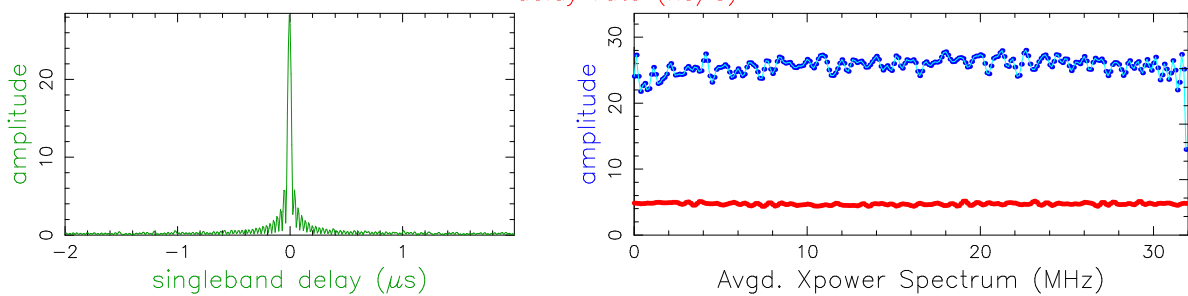
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



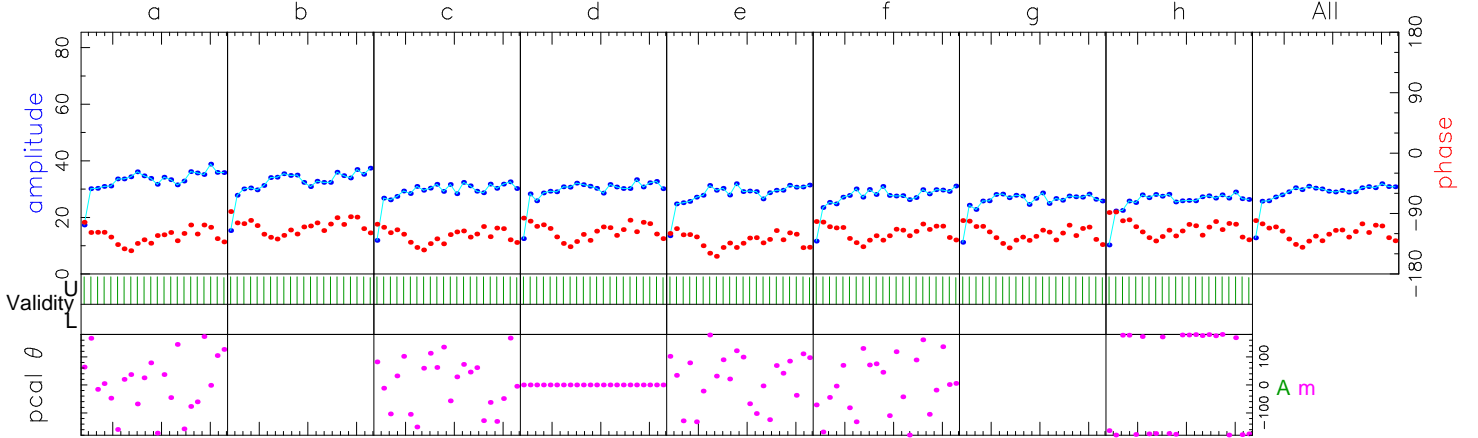
	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	-153.4	-148.7	-160.2	-149.4	-133.1	-144.2	-179.5	-139.9	Phase	-150.6
	0.9	1.0	1.2	1.3	1.0	1.0	0.8	0.8	Ampl.	1.0
	246.2	247.7	246.9	247.1	246.6	246.2	246.9	246.7	Sbd box	246.8
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
I	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:I	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
I	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
I	W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.67630209675E+03		Apriori delay (usec)		7.67638435221E+03		Resid mbdelay (usec)		-1.9755E-02	+/- 9.6E-05
Sband delay (usec)	7.67630467071E+03		Apriori clock (usec)		-2.1013105E+03		Resid sbdelay (usec)		-7.96815E-02	+/- 6.8E-04
Phase delay (usec)	7.67638434735E+03		Apriori clockrate (us/s)		1.8626131E-06		Resid phdelay (usec)		-4.85682E-06	+/- 1.5E-07
Delay rate (us/s)	-7.86146825258E-01		Apriori rate (us/s)		-7.86146427131E-01		Resid rate (us/s)		-3.98127E-07	+/- 1.4E-09
Total phase (deg)			Apriori accel (us/s/s)		1.58542064681E-06		Resid phase (deg)		-150.6	+/- 4.5
	RMS	Theor.	Amplitude	0.981 +/- 0.039	Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	63.6	10.6	Search (1024X64)	0.969	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-2.000	2.000
amp/seg (%)	109.8	18.4	Interp.	0.000	Bits/sample: 2x2		SampCntNorm: enabled		-0.031	0.031
ph/frq (deg)	15.3	6.4	Inc. seg. avg.	1.946	Sample rate(MSamp/s): 64		dr window (ns/s)		-0.011	0.011
amp/frq (%)	18.0	11.1	Inc. frq. avg.	0.994	Data rate(Mb/s): 1024		nlags: 256 t_cohere infinite		0.00	0.00
A: az 250.7 el 62.2 pa 84.2 I: az 172.2 el 24.6 pa -7.0 u,v (fr/asec) 5145.543 -7574.395 simultaneous interpolator										
Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/AI..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/AI.W.24.zrmnrj										



Fringe quality 9
 SNR 738.4
 Int time 179.892
 Amp 28.491
 Phase -119.7
 PFD 0.0e+00
 Delays (us)
 SBD -0.005664
 MBD -0.007387
 Fringe rate (Hz)
 -0.040793
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024039
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"



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



	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	-124.1	-109.8	-123.5	-116.7	-130.9	-118.9	-120.9	-113.1	Phase	-119.7
	32.5	31.9	28.7	29.0	27.8	26.9	25.4	25.3	Ampl.	28.4
	256.3	256.5	256.1	256.3	256.2	256.4	256.2	256.2	Sbd box	256.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
m	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		1.04801585226E+04		Apriori delay (usec)		1.04801659095E+04		Resid mbdelay (usec)	-7.38686E-03	+/- 3.3E-06
Sband delay (usec)		1.04801602455E+04		Apriori clock (usec)		-2.1066985E+03		Resid sbdelay (usec)	-5.66400E-03	+/- 2.3E-05
Phase delay (usec)		1.04801659056E+04		Apriori clockrate (us/s)		1.8247400E-06		Resid phdelay (usec)	-3.86008E-06	+/- 5.0E-09
Delay rate (us/s)		-1.70893775827E+00		Apriori rate (us/s)		-1.70893728471E+00		Resid rate (us/s)	-4.73566E-07	+/- 4.8E-11
Total phase (deg)			39.7	Apriori accel (us/s/s)		-2.68596395991E-05		Resid phase (deg)	-119.7	+/- 0.2

ph/seg (deg) 10.6 0.4
 amp/seg (%) 13.4 0.6
 ph/frq (deg) 7.2 0.2
 amp/frq (%) 8.9 0.4

RMS Theor. Amplitude 28.491 +/- 0.039
 Search (1024X64) 26.878
 Interp. 0.000
 Inc. seg. avg. 28.738
 Inc. frq. avg. 28.449

Group delay (usec)(sbd) 1.04801585226E+04
 Sband delay (usec) 1.04801602455E+04
 Phase delay (usec) 1.04801659056E+04
 Delay rate (us/s) -1.70893775827E+00
 Total phase (deg) 39.7

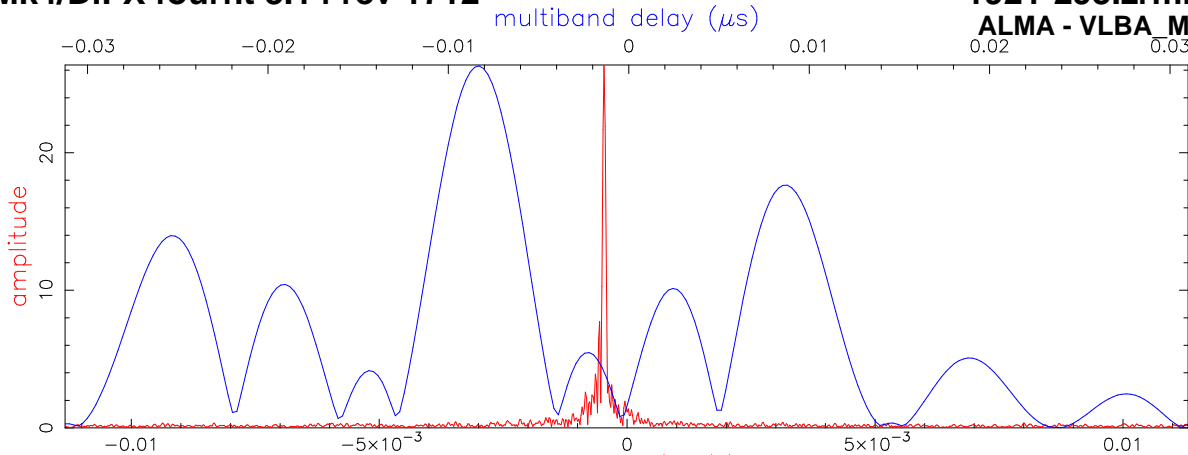
Apriori delay (usec) 1.04801659095E+04
 Apriori clock (usec) -2.1066985E+03
 Apriori clockrate (us/s) 1.8247400E-06
 Apriori rate (us/s) -1.70893728471E+00
 Apriori accel (us/s/s) -2.68596395991E-05

Resid mbdelay (usec) -7.38686E-03
 Resid sbdelay (usec) -5.66400E-03
 Resid phdelay (usec) -3.86008E-06
 Resid rate (us/s) -4.73566E-07
 Resid phase (deg) -119.7

Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 Pcal rate: 0.000E+00, 0.000E+00 (us/s)
 Bits/sample: 2x2 SampCntNorm: enabled
 Sample rate(MSamp/s): 64
 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite

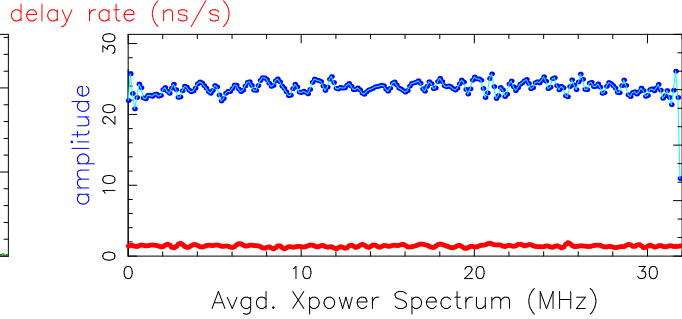
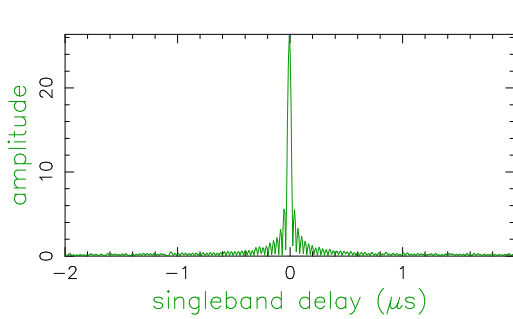
sb window (us) -2.000 2.000
 mb window (us) -0.031 0.031
 dr window (ns/s) -0.011 0.011
 ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 m: az 130.1 el 16.1 pa -55.4 u,v (fr/asec) 11172.688 -4401.872 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Am..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Am.W.25.zrmnrj



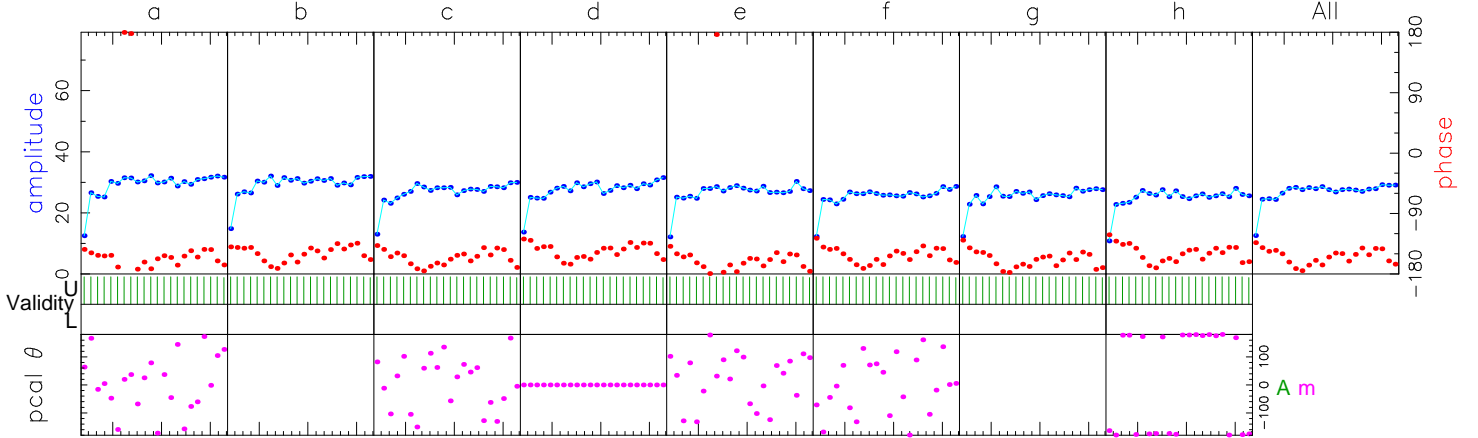
Fringe quality 9

SNR 683.7
 Int time 179.892
 Amp 26.381
 Phase -154.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.006725
 MBD -0.008336
 Fringe rate (Hz)
 -0.040805
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



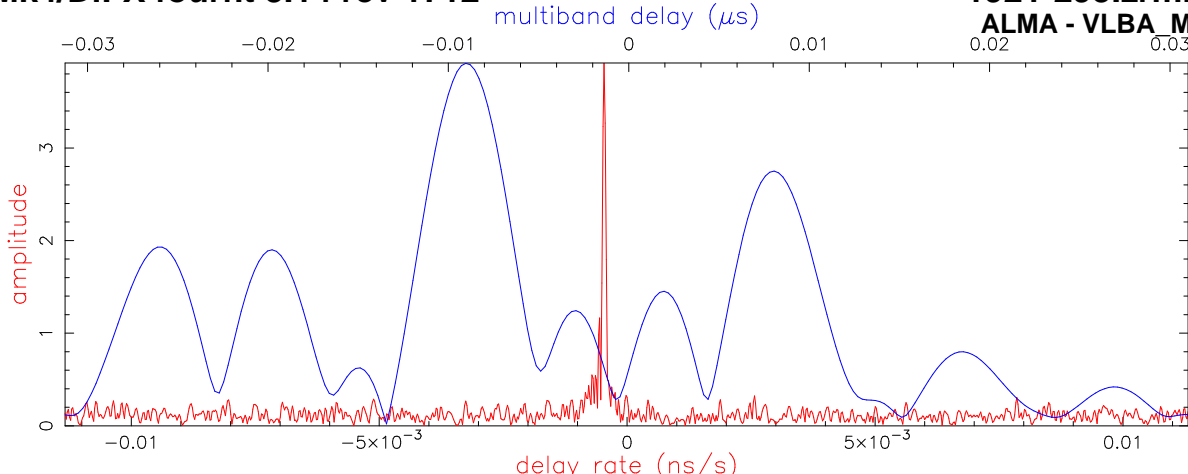
Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024041
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

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



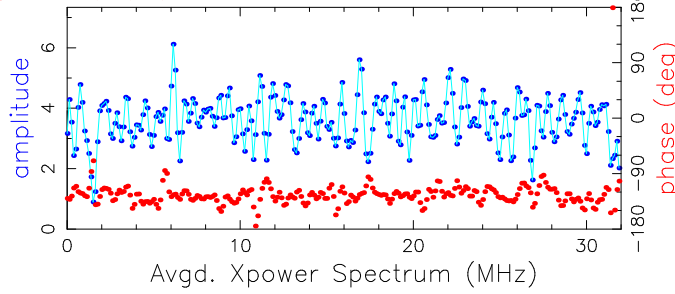
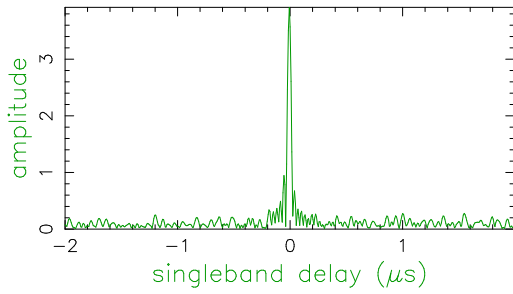
	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	-159.1	-149.8	-156.5	-146.2	-163.1	-152.6	-159.2	-150.0	Phase	-154.5
	28.7	28.9	26.4	27.1	26.1	25.0	25.0	24.4	Ampl.	26.4
	256.1	256.2	256.2	256.1	256.1	256.2	256.1	256.2	Sbd box	256.1
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
m	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m	W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)		1.04801575730E+04			Apriori delay (usec)	1.04801659095E+04		Resid mbdelay (usec)	-8.33648E-03	+/- 3.6E-06
Sband delay (usec)		1.04801591840E+04			Apriori clock (usec)	-2.1066985E+03		Resid sbdelay (usec)	-6.72550E-03	+/- 2.5E-05
Phase delay (usec)		1.04801659045E+04			Apriori clockrate (us/s)	1.8247400E-06		Resid phdelay (usec)	-4.98366E-06	+/- 5.4E-09
Delay rate (us/s)		-1.70893775841E+00			Apriori rate (us/s)	-1.70893728471E+00		Resid rate (us/s)	-4.73702E-07	+/- 5.2E-11
Total phase (deg)			4.8		Apriori accel (us/s/s)	-2.68596395991E-05		Resid phase (deg)	-154.5	+/- 0.2

RMS Theor. Amplitude 26.381 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 11.0 0.4 Search (1024X64) 24.967 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 12.9 0.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 ph/frq (deg) 6.3 0.2 Inc. seg. avg. 26.791 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 5.9 0.4 Inc. frq. avg. 26.450 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 A: az 250.7 el 62.2 pa 84.2 m: az 130.1 el 16.1 pa -55.4 u,v (fr/asec) 11172.688 -4401.872 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Am..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Am.W.26.zrmnrj



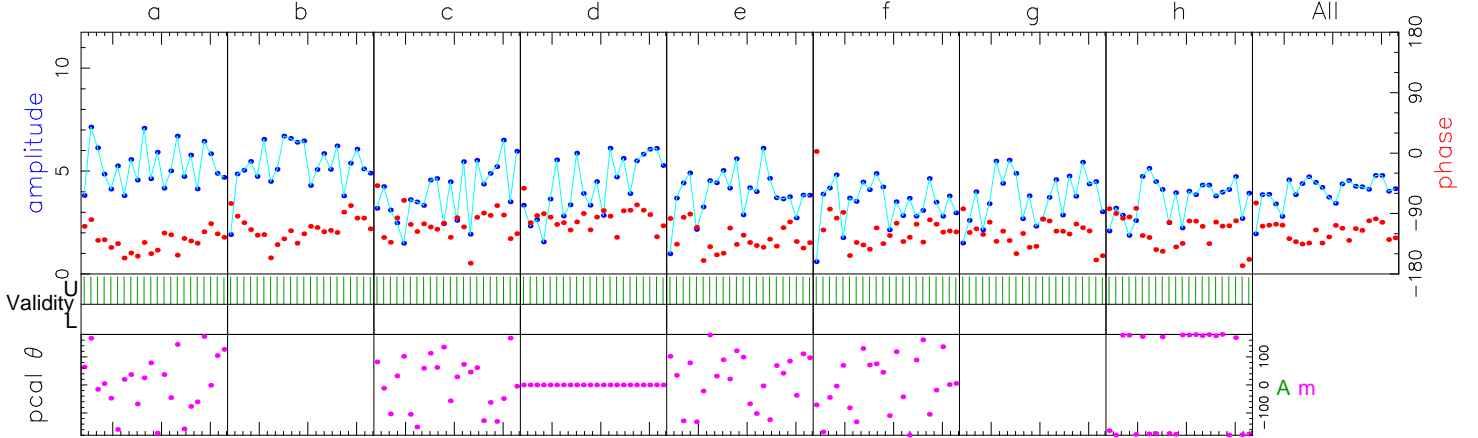
Fringe quality 7

SNR 101.5
Int time 179.892
Amp 3.917
Phase -116.7
PFD 0.0e+00
Delays (us)
SBD -0.007469
MBD -0.008997
Fringe rate (Hz)
-0.040833
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. mb007
Exper # 16383
Yr:day 2017:093
Start 131121.00
Stop 131421.22
FRT 131251.00
Corr/FF/build
2017:237:124829
2017:244:024043
2017:170:130423
RA & Dec (J2000)
19h24m51.0560s
-29°14'30.121"

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

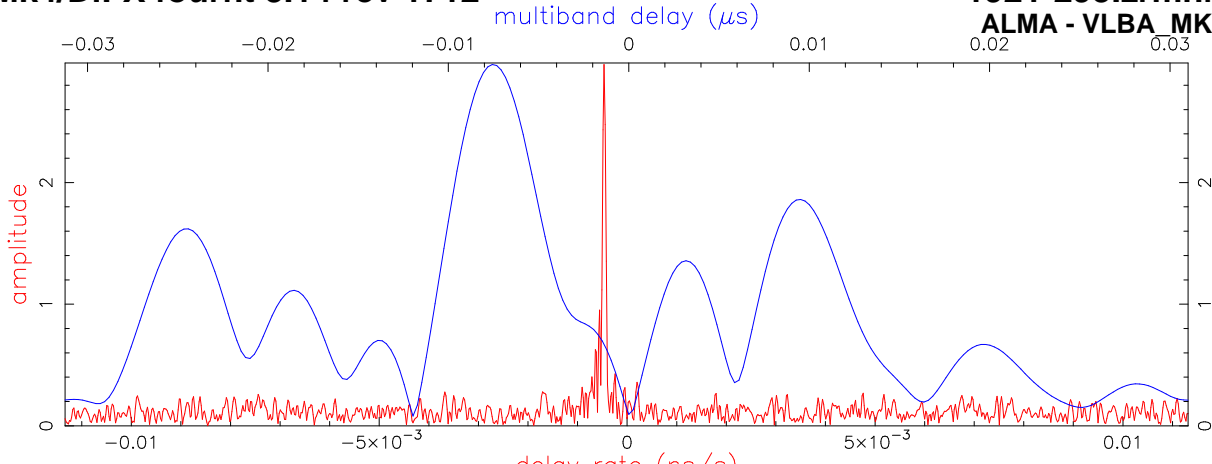


	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	-130.4	-113.6	-105.0	-97.1	-128.8	-117.4	-122.5	-117.5	Phase	-116.7
	5.1	5.1	3.7	4.2	3.7	3.3	3.6	3.3	Ampl.	4.0
	256.1	256.3	256.1	255.9	256.1	255.9	255.8	256.2	Sbd box	256.0
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
m	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:m	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
m	W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.04801569123E+04		Apriori delay (usec)		1.04801659095E+04		Resid mbdelay (usec)		-8.99717E-03	+/- 2.4E-05
Sband delay (usec)	1.04801584405E+04		Apriori clock (usec)		-2.1066985E+03		Resid sbdelay (usec)		-7.46900E-03	+/- 1.7E-04
Phase delay (usec)	1.04801659057E+04		Apriori clockrate (us/s)		1.8247400E-06		Resid phdelay (usec)		-3.76382E-06	+/- 3.6E-08
Delay rate (us/s)	-1.70893775873E+00		Apriori rate (us/s)		-1.70893728471E+00		Resid rate (us/s)		-4.74025E-07	+/- 3.5E-10
Total phase (deg)	42.7		Apriori accel (us/s/s)		-2.6859639591E-05		Resid phase (deg)		-116.7	+/- 1.1

	RMS	Theor.	Amplitude	3.917 +/- 0.039	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	14.9	2.6	Search (1024X64)	3.773	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-2.000 2.000	
amp/seg (%)	17.1	4.6	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.031 0.031
ph/frq (deg)	12.2	1.6	Inc. seg. avg.	4.025	Sample rate(MSamp/s): 64		dr window (ns/s)	-0.011 0.011
amp/frq (%)	17.1	2.8	Inc. frq. avg.	3.986	Data rate(Mb/s): 1024	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

A: az 250.7 el 62.2 pa 84.2 m: az 130.1 el 16.1 pa -55.4 u,v (fr/asec) 11172.688 -4401.872 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Am..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Am.W.27.zrmnrj



Fringe quality 6

SNR 77.3

Int time 179.892

Amp 2.983

Phase 110.0

PFD 0.0e+00

Delays (us)

SBD -0.006407

MBD -0.007521

Fringe rate (Hz)

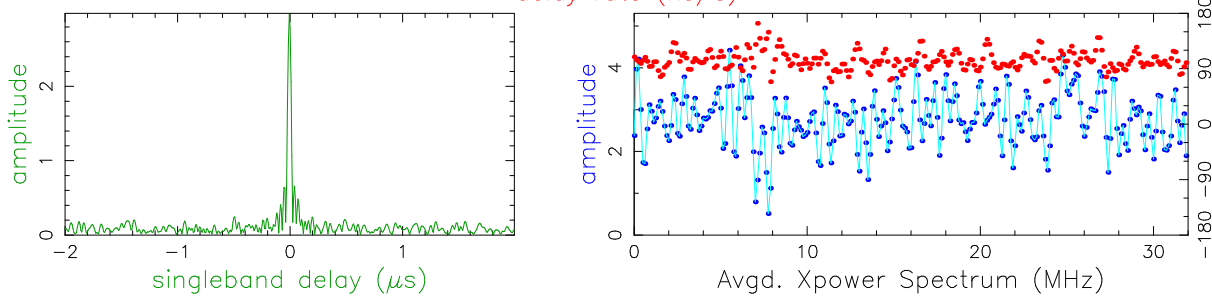
-0.040856

Ion TEC 0.000

Ref freq (MHz)

86140.0000

AP (sec) 0.512



Exp. mb007

Exper # 16383

Yr:day 2017:093

Start 131121.00

Stop 131421.22

FRT 131251.00

Corr/FF/build

2017:237:124829

2017:244:024046

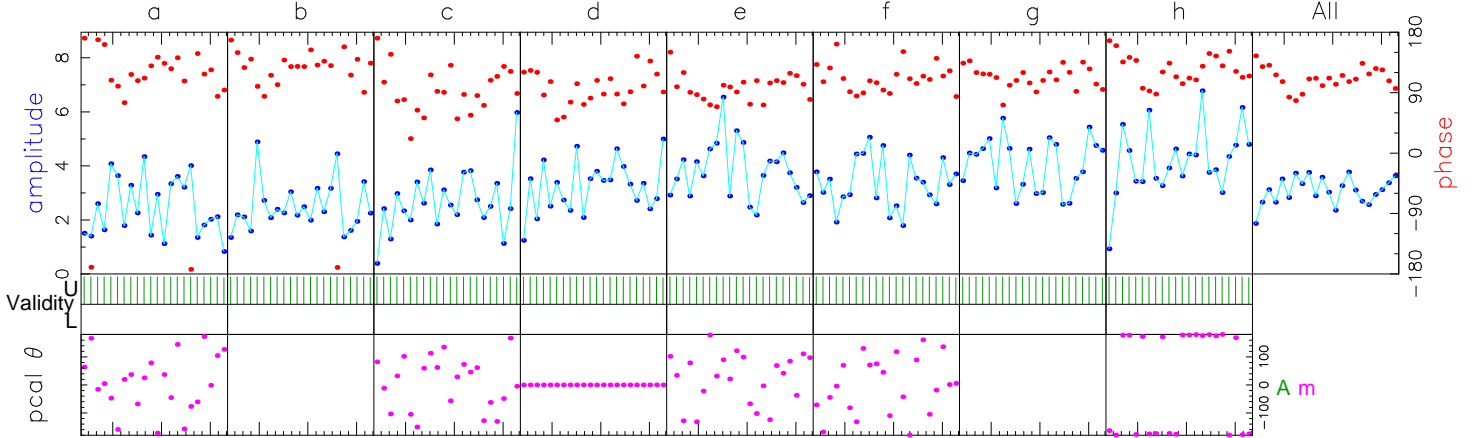
2017:170:130423

RA & Dec (J2000)

19h24m51.0560s

-29°14'30.121"

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



86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
127.7	129.2	88.9	95.7	97.1	109.3	111.9	123.2	Phase	110.0
2.2	2.2	2.4	3.0	3.6	3.2	3.9	4.0	Ampl.	3.1
256.2	255.9	256.0	256.3	256.1	256.4	256.3	256.2	Sbd box	256.2
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
m 4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:m 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:m 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
m 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
m W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	1.04801583888E+04	Apriori delay (usec)	1.04801659095E+04	Resid mbdelay (usec)	-7.52073E-03	+/-	3.2E-05		
Sband delay (usec)	1.04801595030E+04	Apriori clock (usec)	-2.1066985E+03	Resid sbdelay (usec)	-6.40650E-03	+/-	2.2E-04		
Phase delay (usec)	1.04801659130E+04	Apriori clockrate (us/s)	1.8247400E-06	Resid phdelay (usec)	3.54582E-06	+/-	4.8E-08		
Delay rate (us/s)	-1.70893775900E+00	Apriori rate (us/s)	-1.70893728471E+00	Resid rate (us/s)	-4.74296E-07	+/-	4.6E-10		
Total phase (deg)	269.4	Apriori accel (us/s/s)	-2.68596395991E-05	Resid phase (deg)	110.0	+/-	1.5		

ph/seg (deg) 16.2 3.5 Theor. Amplitude 2.983 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

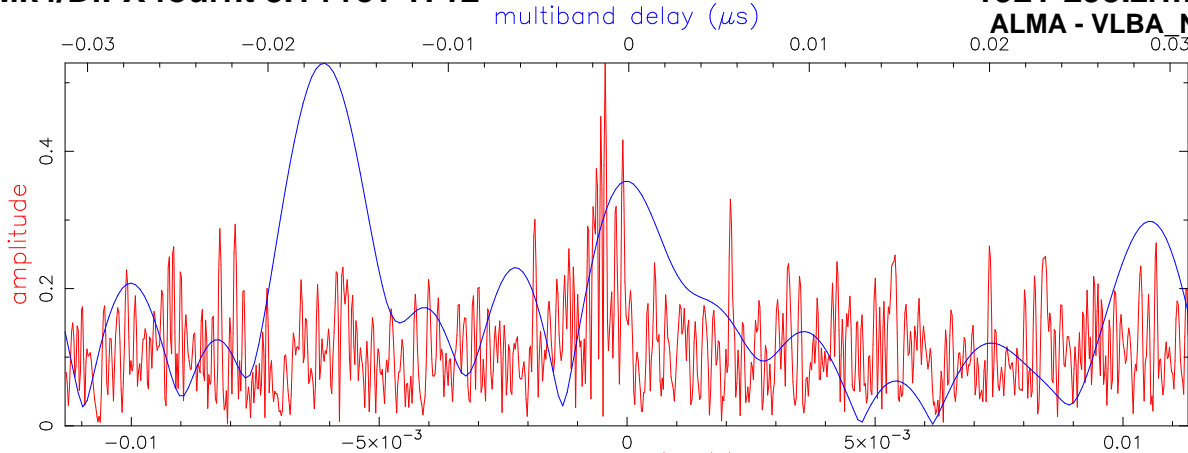
amp/seg (%) 16.6 6.1 Search (1024X64) 2.839 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000

ph/frq (deg) 16.7 2.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031

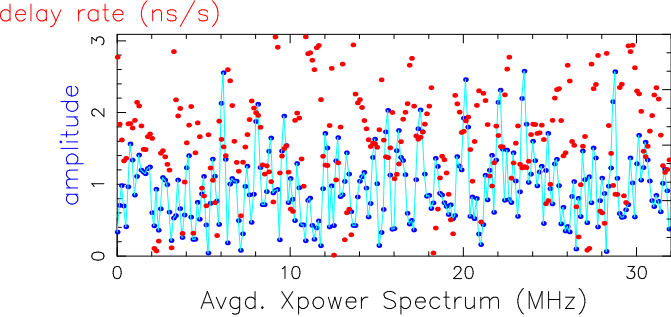
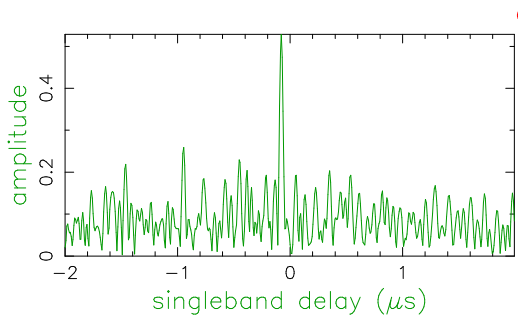
amp/frq (%) 23.3 3.7 Inc. seg. avg. 3.080 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

A: az 250.7 el 62.2 pa 84.2 m: az 130.1 el 16.1 pa -55.4 u,v (fr/asec) 11172.688 -4401.872 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Am..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Am.W.28.zrmnrj

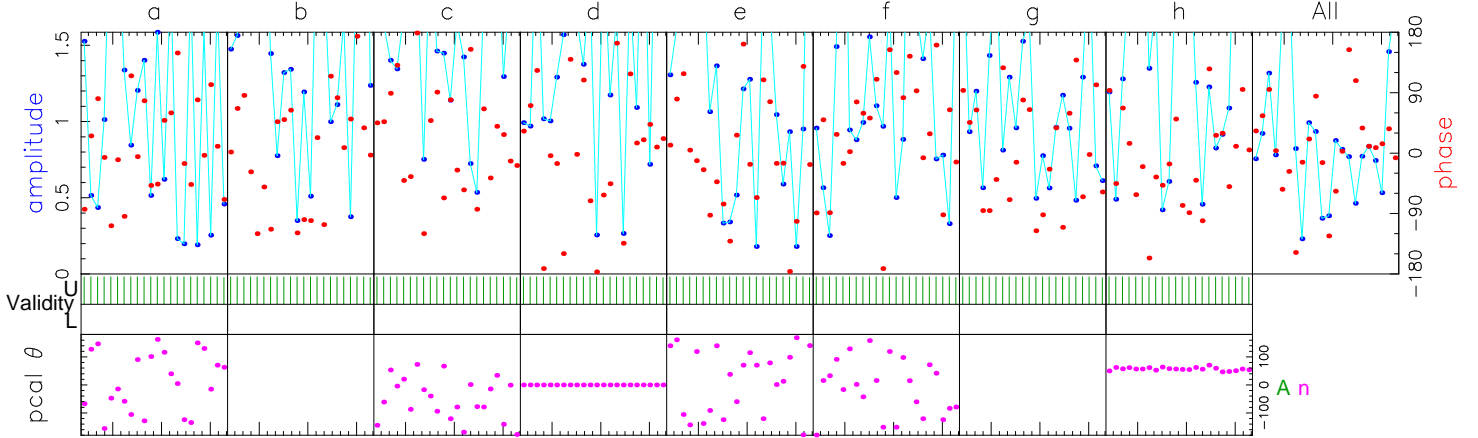


Fringe quality 9
 SNR 13.7
 Int time 179.905
 Amp 0.529
 Phase 10.8
 PFD 5.4e-34
 Delays (us)
 SBD -0.078635
 MBD -0.016898
 Fringe rate (Hz)
 -0.038301
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024049
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

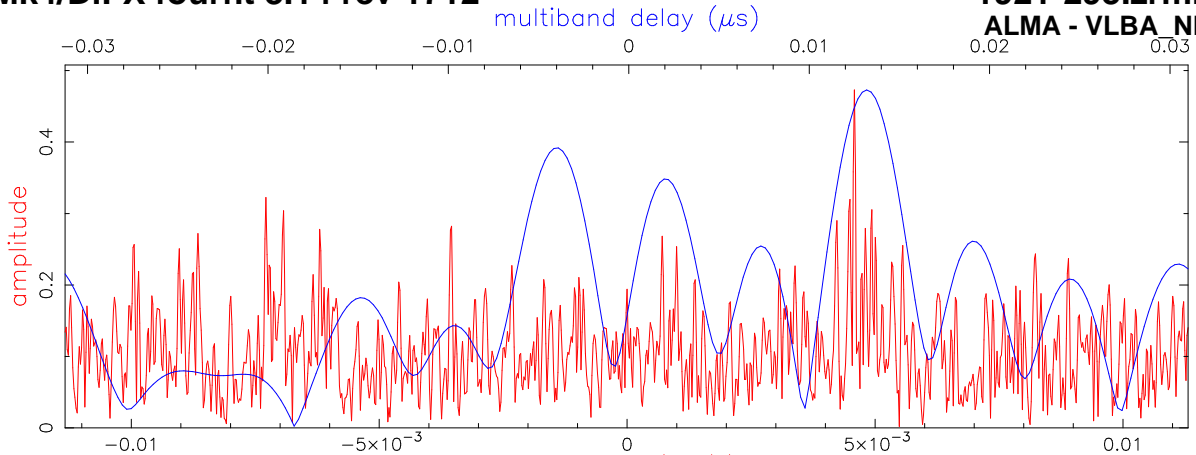
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



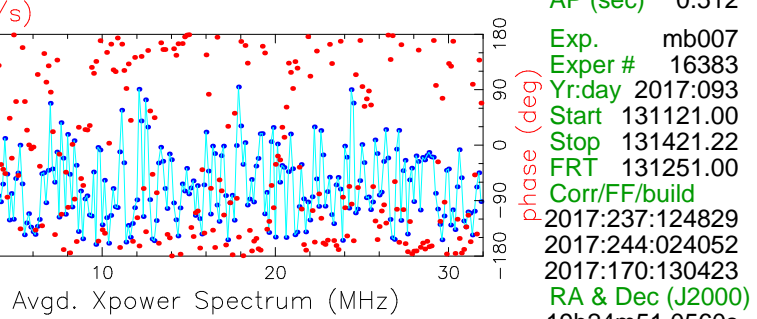
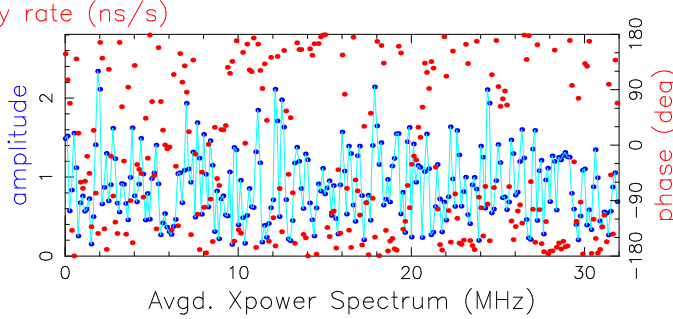
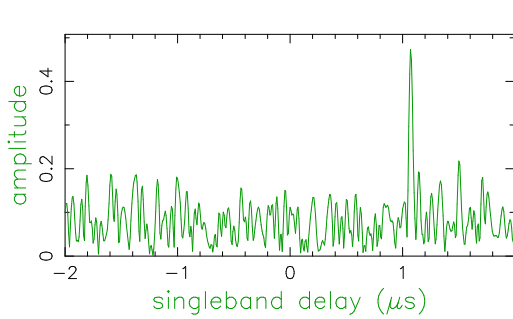
	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	-16.9	13.9	15.2	29.1	12.4	52.6	6.6	-12.2	Phase	10.8
	0.6	0.6	0.7	0.5	0.5	0.4	0.4	0.7	Ampl.	0.6
	426.0	368.2	247.6	221.6	266.8	118.6	260.3	245.8	Sbd box	246.9
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
n	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.70899799151E+03		Apriori delay (usec)		9.70907738975E+03		Resid mbdelay (usec)		-1.68982E-02	+/- 1.8E-04
Sband delay (usec)	9.70899875425E+03		Apriori clock (usec)		-2.1110715E+03		Resid sbdelay (usec)		-7.86355E-02	+/- 1.3E-03
Phase delay (usec)	9.70907739010E+03		Apriori clockrate (us/s)		1.4650534E-06		Resid phdelay (usec)		3.48723E-07	+/- 2.7E-07
Delay rate (us/s)	-5.16325893955E-01		Apriori rate (us/s)		-5.16325449321E-01		Resid rate (us/s)		-4.44634E-07	+/- 2.6E-09
Total phase (deg)	137.9		Apriori accel (us/s/s)		-4.79440526067E-06		Resid phase (deg)		10.8	+/- 8.4

ph/seg (deg) 67.9 19.6 Search (1024X64) 0.522 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 114.7 34.2 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 23.9 11.8 Inc. seg. avg. 0.872 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 amp/frq (%) 23.0 20.6 Inc. frq. avg. 0.551 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Total phase (deg) 137.9 ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 n: az 186.0 el 18.8 pa 5.3 u,v (fr/asec) 3367.809 -7931.530 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gvma_32_pc1/1234/No0082/An..zrmnrj Output file: /Exps/mb007/gvma_32_pc1/1234/No0082/An.W.29.zrmnrj

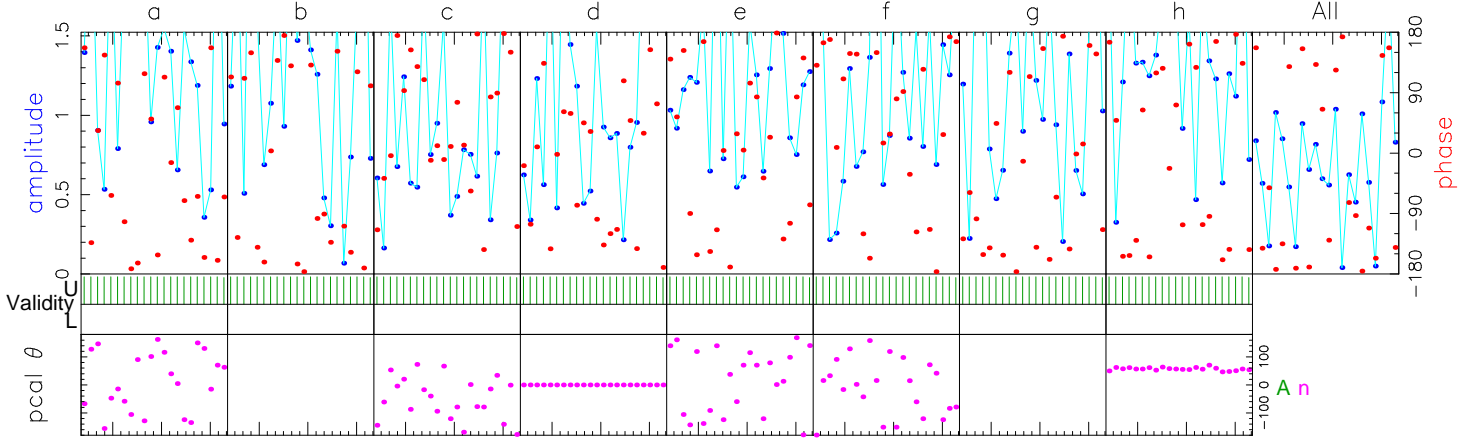


Fringe quality 9
SNR 12.3
Int time 179.905
Amp 0.508
Phase 177.0
PFD 4.4e-26
Delays (us)
SBD 1.071828
MBD 0.013231
Fringe rate (Hz)
0.394935
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. mb007
Exper # 16383
Yr:day 2017:093
Start 131121.00
Stop 131421.22
FRT 131251.00
Corr/FF/build
2017:237:124829
2017:244:024052
2017:170:130423
RA & Dec (J2000)
19h24m51.0560s
-29°14'30.121"

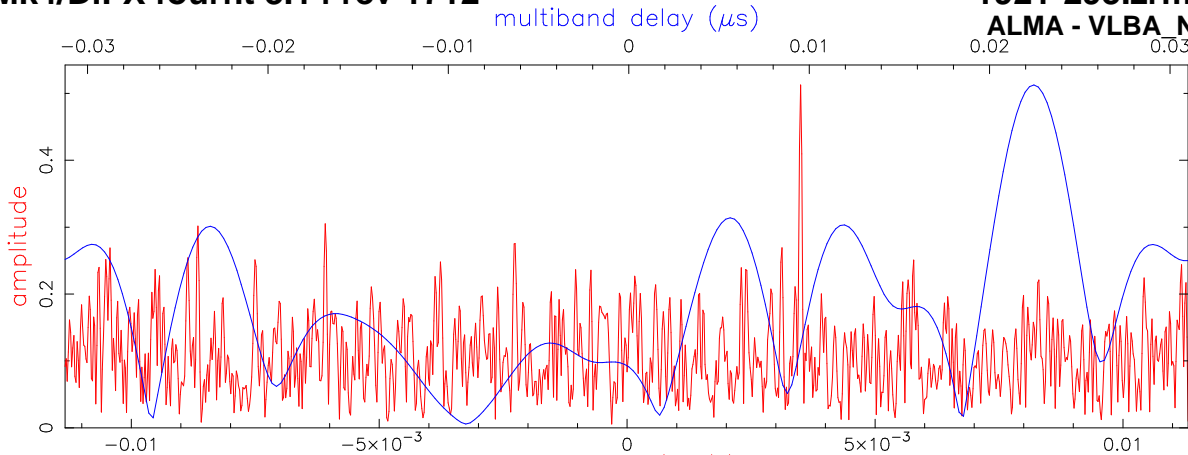
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



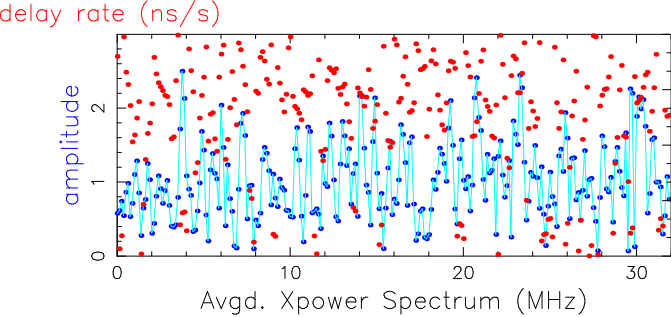
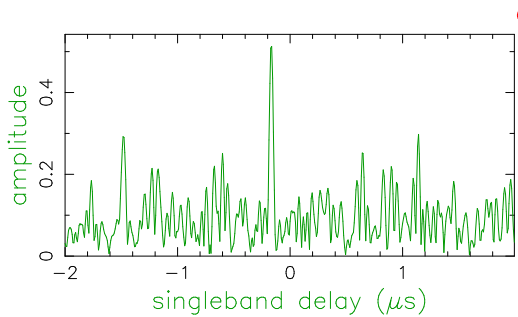
86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
-148.8	168.9	136.1	127.8	-172.3	149.1	-165.2	178.2	Phase	177.0
0.6	1.0	0.2	0.1	0.4	0.7	0.7	0.7	Ampl.	0.5
149.6	111.9	75.8	110.0	8.7	9.3	393.2	265.7	Sbd box	394.2
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
n 4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:n 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	9.71015312084E+03	Apriori delay (usec)		9.70907738975E+03	Resid mbdelay (usec)		1.32311E-02	+/- 2.0E-04	
Sband delay (usec)	9.71014921825E+03	Apriori clock (usec)		0.468	Resid sbdelay (usec)		1.07183E+00	+/- 1.4E-03	
Phase delay (usec)	9.70907739546E+03	Apriori clockrate (us/s)		1.4650534E-06	Resid phdelay (usec)		5.70764E-06	+/- 3.0E-07	
Delay rate (us/s)	-5.16320864521E-01	Apriori rate (us/s)		-5.16325449321E-01	Resid rate (us/s)		4.58480E-06	+/- 2.9E-09	
Total phase (deg)	304.1		Apriori accel (us/s/s)		-4.79440526067E-06	Resid phase (deg)		177.0	+/- 9.3

ph/seg (deg) 58.1 21.8 Search (1024X64) 0.468 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 97.2 38.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
ph/frq (deg) 33.0 13.2 Inc. seg. avg. 0.697 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
amp/frq (%) 56.3 23.0 Inc. frq. avg. 0.530 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 n: az 186.0 el 18.8 pa 5.3 u,v (fr/asec) 3367.809 -7931.530 simultaneous interpolator
Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/An...zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/An.W.30.zrmnrj

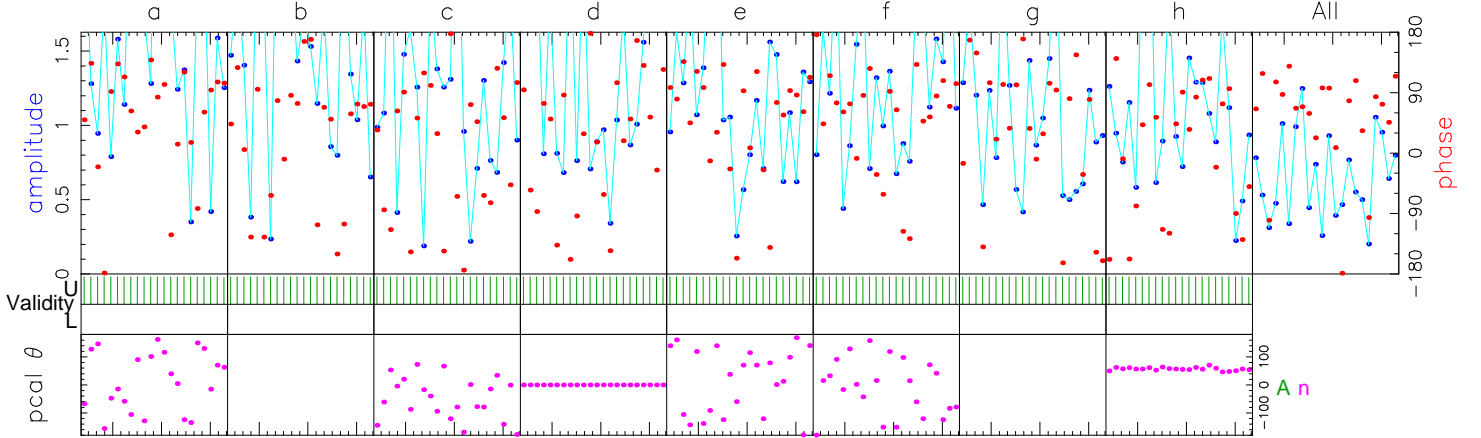


Fringe quality 9
 SNR 13.5
 Int time 179.905
 Amp 0.543
 Phase 78.9
 PFD 6.3e-33
 Delays (us)
 SBD -0.167591
 MBD 0.022405
 Fringe rate (Hz)
 0.301709
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024054
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

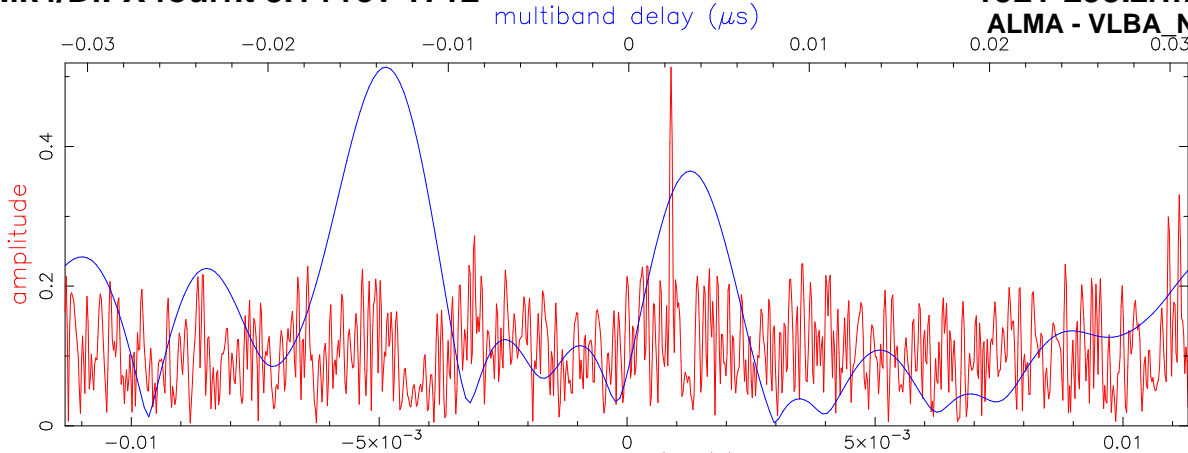
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



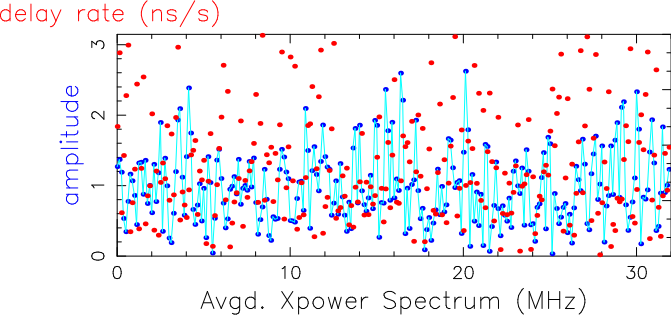
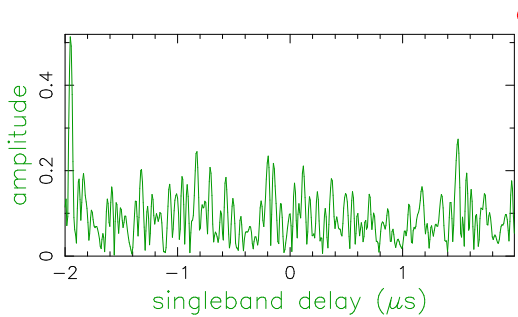
	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	83.1	85.2	-61.1	59.0	70.5	76.3	94.3	85.9	Phase	78.9
	1.0	0.6	0.1	0.3	0.7	0.8	0.5	0.4	Ampl.	0.6
	235.5	28.1	181.0	231.8	235.8	236.0	28.4	361.9	Sbd box	235.5
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
n	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
n	W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	9.70891229516E+03		Apriori delay (usec)		9.70907738975E+03		Resid mbdelay (usec)		2.24054E-02	+/- 1.8E-04
Sband delay (usec)	9.70890979875E+03		Apriori clock (usec)		-2.1110715E+03		Resid sbdelay (usec)		-1.67591E-01	+/- 1.3E-03
Phase delay (usec)	9.70907739230E+03		Apriori clockrate (us/s)		1.4650534E-06		Resid phdelay (usec)		2.54569E-06	+/- 2.7E-07
Delay rate (us/s)	-5.16321946781E-01		Apriori rate (us/s)		-5.16325449321E-01		Resid rate (us/s)		3.50254E-06	+/- 2.6E-09
Total phase (deg)	206.0		Apriori accel (us/s/s)		-4.79440526067E-06		Resid phase (deg)		78.9	+/- 8.5

ph/seg (deg) 65.0 19.9 Search (1024X64) 0.502 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 60.3 34.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 58.4 12.0 Inc. seg. avg. 0.642 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 amp/frq (%) 48.7 20.9 Inc. frq. avg. 0.552 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 n: az 186.0 el 18.8 pa 5.3 u,v (fr/asec) 3367.809 -7931.530 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gvma_32_pc1/1234/No0082/An..zrmnrj Output file: /Exps/mb007/gvma_32_pc1/1234/No0082/An.W.31.zrmnrj

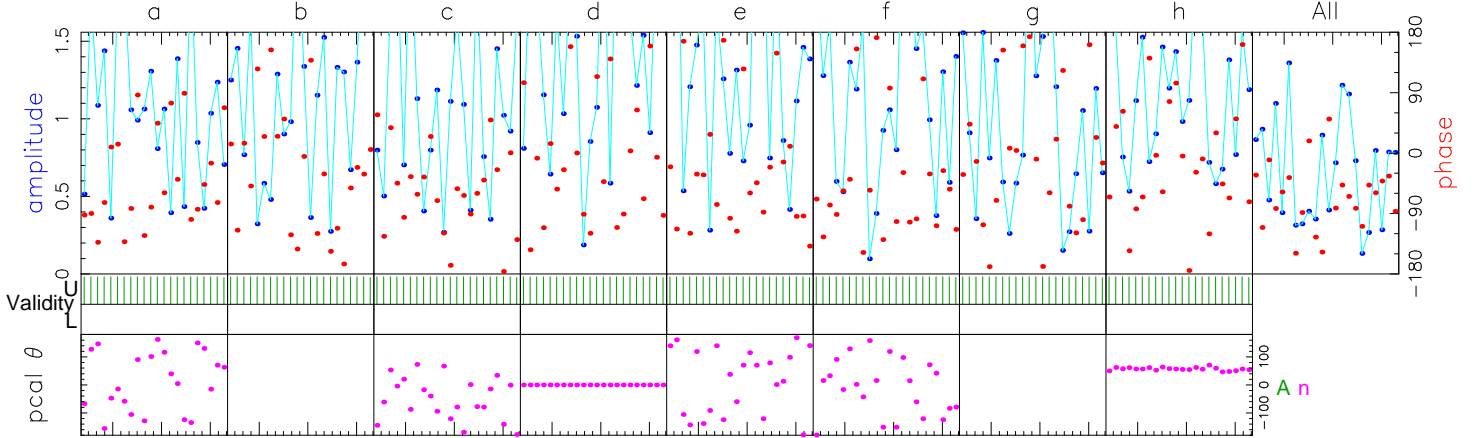


Fringe quality 9
 SNR 13.4
 Int time 179.905
 Amp 0.520
 Phase -65.3
 PFD 2.0e-32
 Delays (us)
 SBD -1.950832
 MBD -0.013431
 Fringe rate (Hz)
 0.076312
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512



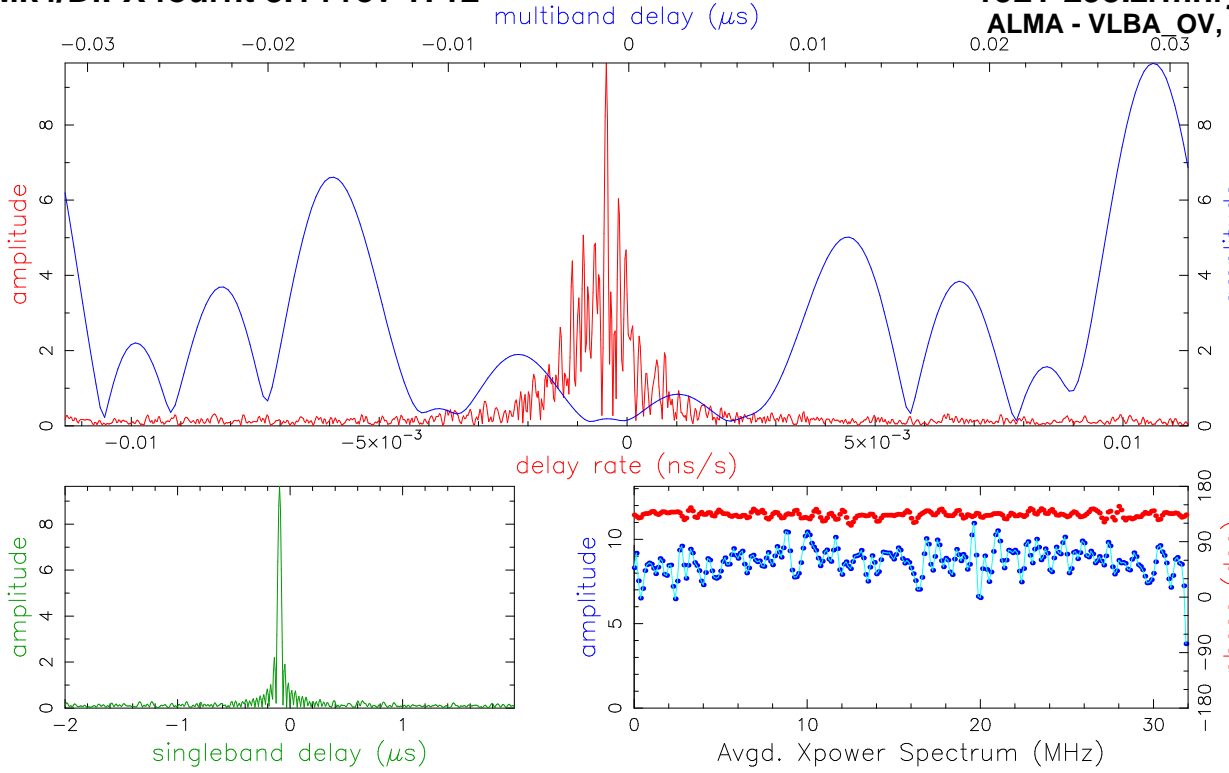
Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024056
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

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



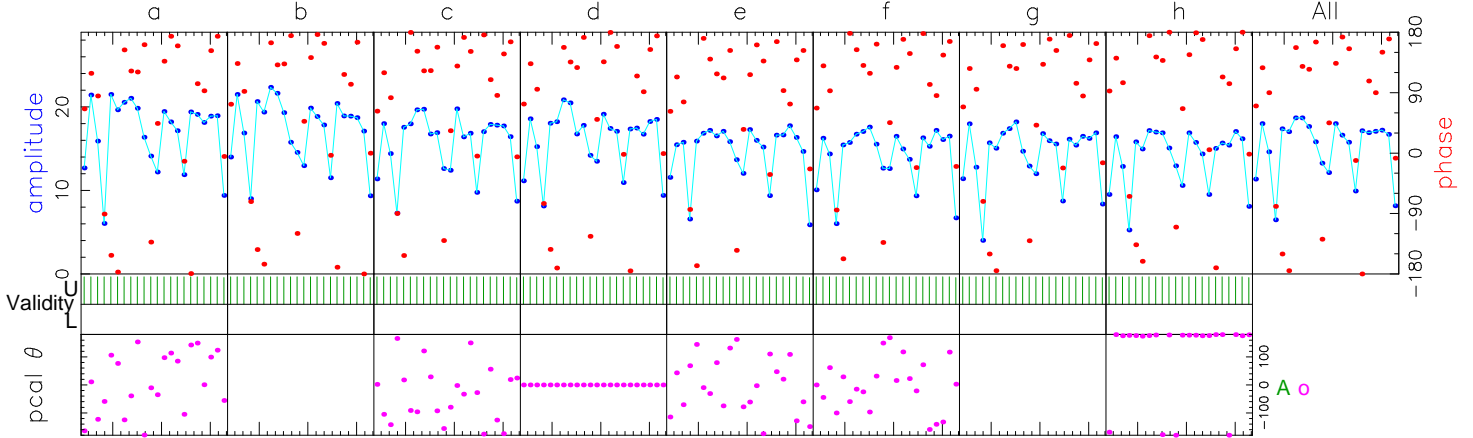
	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	-70.3	-48.1	-50.9	-63.1	-83.4	-87.4	-72.4	-31.6	Phase	-65.3
	0.6	0.5	0.7	0.6	0.8	0.6	0.3	0.4	Ampl.	0.5
	8.9	157.0	331.1	429.5	7.1	7.7	168.4	165.2	Sbd box	7.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
n	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:n	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
n	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
n	W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	9.70712645830E+03		Apriori delay (usec)		9.70907738975E+03		Resid mbdelay (usec)		-1.34315E-02	+/- 1.8E-04
Sband delay (usec)	9.70712655725E+03		Apriori clock (usec)		-2.1110715E+03		Resid sbdelay (usec)		-1.95083E+00	+/- 1.3E-03
Phase delay (usec)	9.70907738765E+03		Apriori clockrate (us/s)		1.4650534E-06		Resid phdelay (usec)		-2.10421E-06	+/- 2.7E-07
Delay rate (us/s)	-5.16324563417E-01		Apriori rate (us/s)		-5.16325449321E-01		Resid rate (us/s)		8.85904E-07	+/- 2.6E-09
Total phase (deg)	61.8		Apriori accel (us/s/s)		-4.79440526067E-06		Resid phase (deg)		-65.3	+/- 8.5

ph/seg (deg) 48.0 20.0 Search (1024X64) 0.510 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 72.4 34.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 20.6 12.1 Inc. seg. avg. 0.632 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 amp/frq (%) 28.0 21.0 Inc. frq. avg. 0.528 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 A: az 250.7 el 62.2 pa 84.2 n: az 186.0 el 18.8 pa 5.3 u,v (fr/asec) 3367.809 -7931.530 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/An..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/An.W.32.zrmnrj



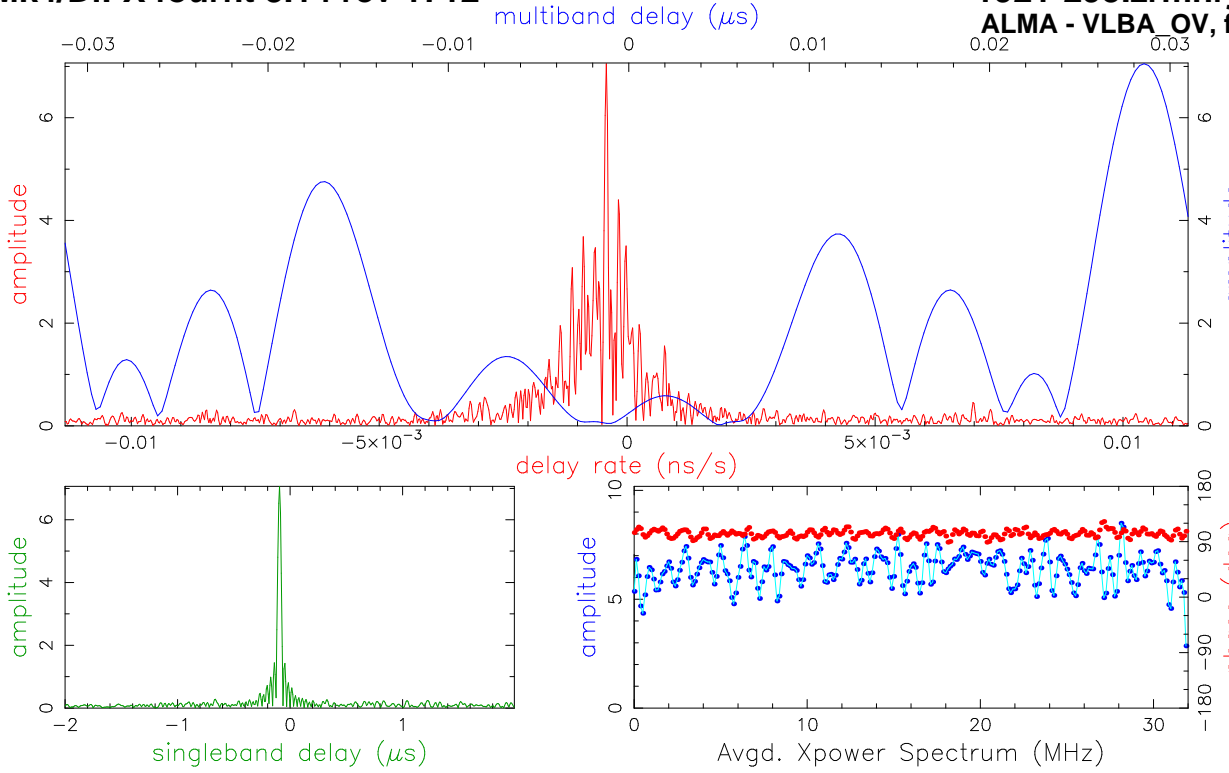
Fringe quality 5
 SNR 250.1
 Int time 179.919
 Amp 9.647
 Phase 143.8
 PFD 0.0e+00
 Delays (us)
 SBD -0.094223
 MBD 0.029077
 Fringe rate (Hz)
 -0.036636
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512
 Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024059
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

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



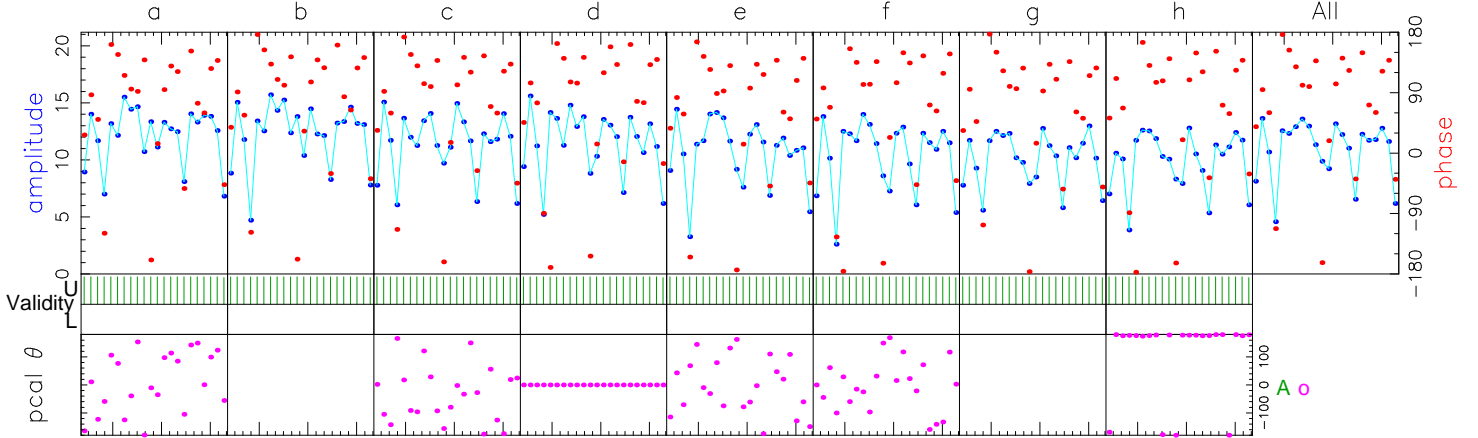
86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
142.8	152.1	139.0	148.7	129.0	140.4	141.0	156.3	Phase	143.8
10.7	10.6	9.9	10.1	9.3	9.1	9.2	9.0	Ampl.	9.7
244.9	244.9	244.9	244.9	245.0	244.9	245.1	245.0	Sbd box	244.9
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
o 4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
o W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	8.88278009630E+03	Apriori delay (usec)	8.8827601962E+03	Resid mbdelay (usec)	2.90767E-02	+/-	9.8E-06		
Sband delay (usec)	8.88278179712E+03	Apriori clock (usec)	-2.1078730E+03	Resid sbdelay (usec)	-9.42225E-02	+/-	6.9E-05		
Phase delay (usec)	8.88287602426E+03	Apriori clockrate (us/s)	1.5021560E-06	Resid phdelay (usec)	4.63631E-06	+/-	1.5E-08		
Delay rate (us/s)	-1.00357323765E+00	Apriori rate (us/s)	-1.00357281234E+00	Resid rate (us/s)	-4.25305E-07	+/-	1.4E-10		
Total phase (deg)	262.7	Apriori accel (us/s/s)	-3.74419244333E-06	Resid phase (deg)	143.8	+/-	0.5		

ph/seg (deg) 69.4 1.1 Theor. Amplitude 9.647 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 67.8 1.9 Search (1024X64) 9.507 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 9.2 0.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 amp/frq (%) 6.4 1.1 Inc. seg. avg. 15.229 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 u,v (fr/asec) 6566.016 -7491.730 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ao..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ao.W.33.zrmnrj



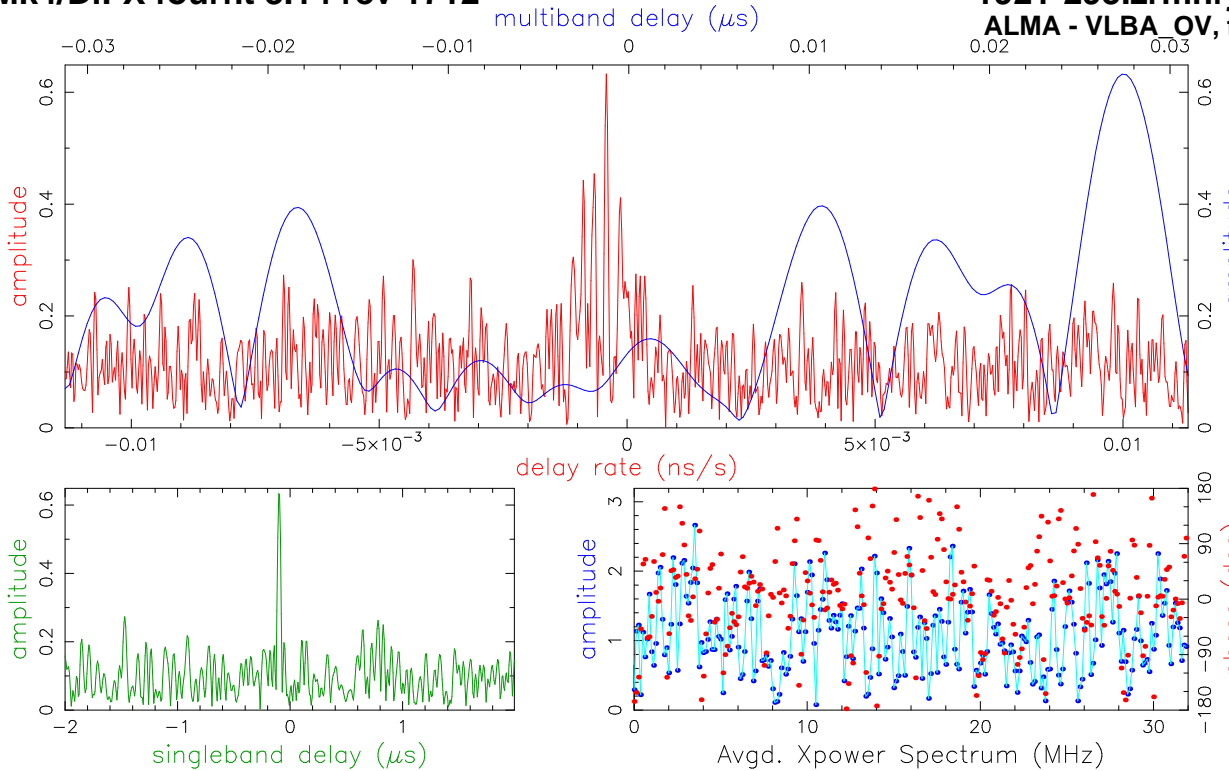
Fringe quality 5
 SNR 183.2
 Int time 179.918
 Amp 7.067
 Phase 113.4
 PFD 0.0e+00
 Delays (us)
 SBD -0.094667
 MBD 0.028566
 Fringe rate (Hz)
 -0.036601
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512
 Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024101
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

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



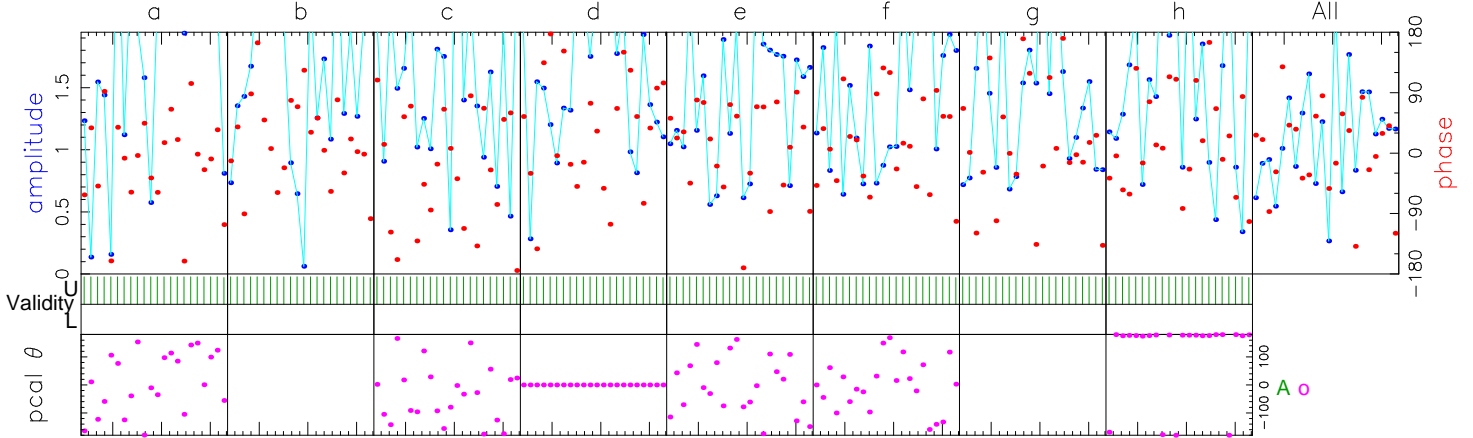
86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
109.2	116.5	111.3	122.1	105.2	118.1	106.4	118.5	Phase	113.4
7.4	7.8	7.3	7.3	7.2	7.0	6.3	6.4	Ampl.	7.1
244.8	244.9	244.9	244.9	244.9	245.0	244.9	245.0	Sbd box	244.9
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
o 4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	8.88277958524E+03		Apriori delay (usec)	8.88287601962E+03		Resid mbdelay (usec)	2.85656E-02	+/-	1.3E-05
Sband delay (usec)	8.88278135312E+03		Apriori clock (usec)	-2.1078730E+03		Resid sbdelay (usec)	-9.46665E-02	+/-	9.4E-05
Phase delay (usec)	8.88287602328E+03		Apriori clockrate (us/s)	1.5021560E-06		Resid phdelay (usec)	3.65831E-06	+/-	2.0E-08
Delay rate (us/s)	-1.00357323724E+00		Apriori rate (us/s)	-1.00357281234E+00		Resid rate (us/s)	-4.24896E-07	+/-	1.9E-10
Total phase (deg)		232.3	Apriori accel (us/s/s)	-3.74419244333E-06		Resid phase (deg)	113.4	+/-	0.6

RMS Theor. Amplitude 7.067 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 68.3 1.5 Search (1024X64) 6.939 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 65.4 2.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 ph/frq (deg) 6.7 0.9 Inc. seg. avg. 10.971 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 6.7 1.5 Inc. frq. avg. 7.092 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 A: az 250.7 el 62.2 pa 84.2 o: az 161.2 el 20.9 pa -16.9 u,v (fr/asec) 6566.016 -7491.730 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gvma_32_pc1/1234/No0082/Ao..zrmnrj Output file: /Exps/mb007/gvma_32_pc1/1234/No0082/Ao.W.34.zrmnrj



Fringe quality 8
 SNR 16.8
 Int time 179.918
 Amp 0.649
 Phase 13.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.097846
 MBD 0.027400
 Fringe rate (Hz)
 -0.036868
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024103
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

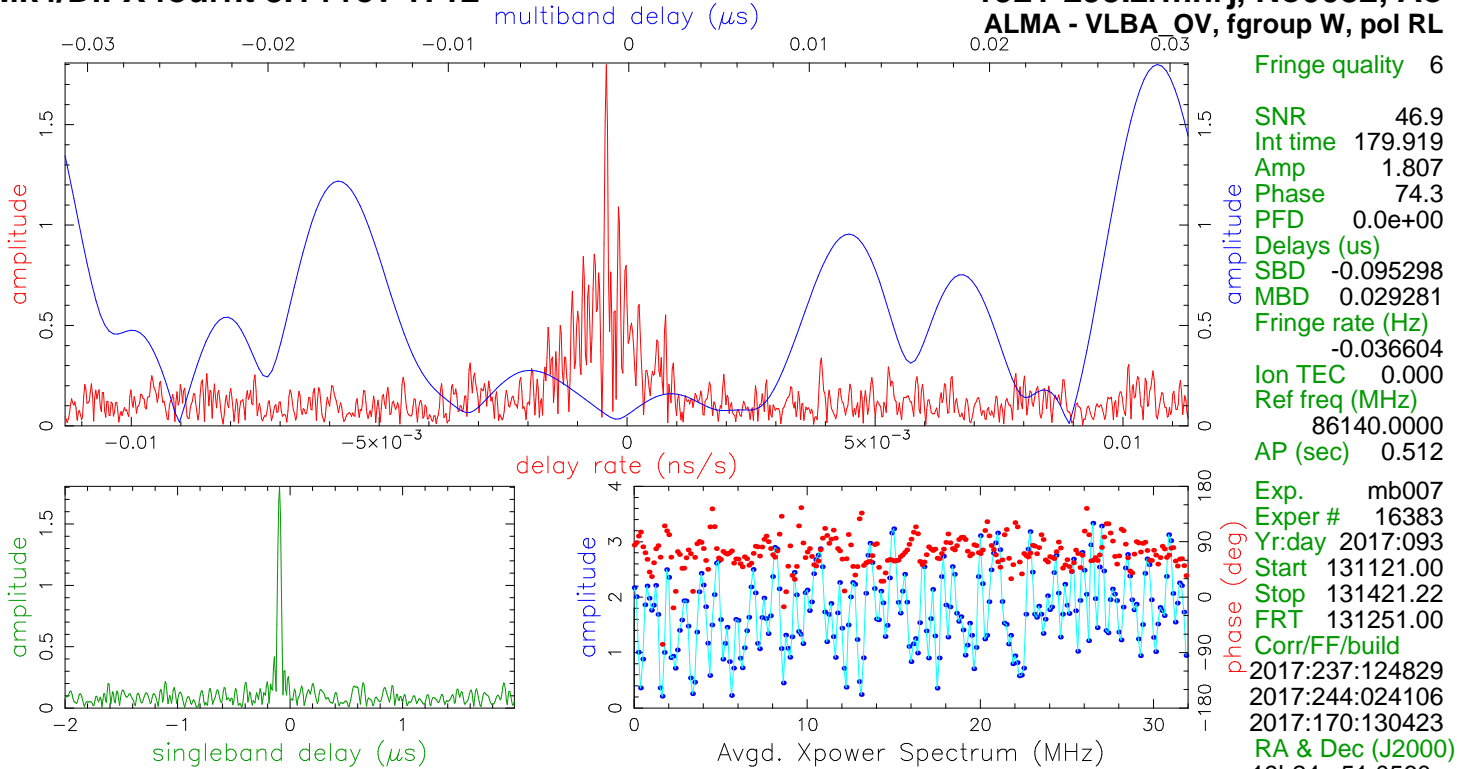
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



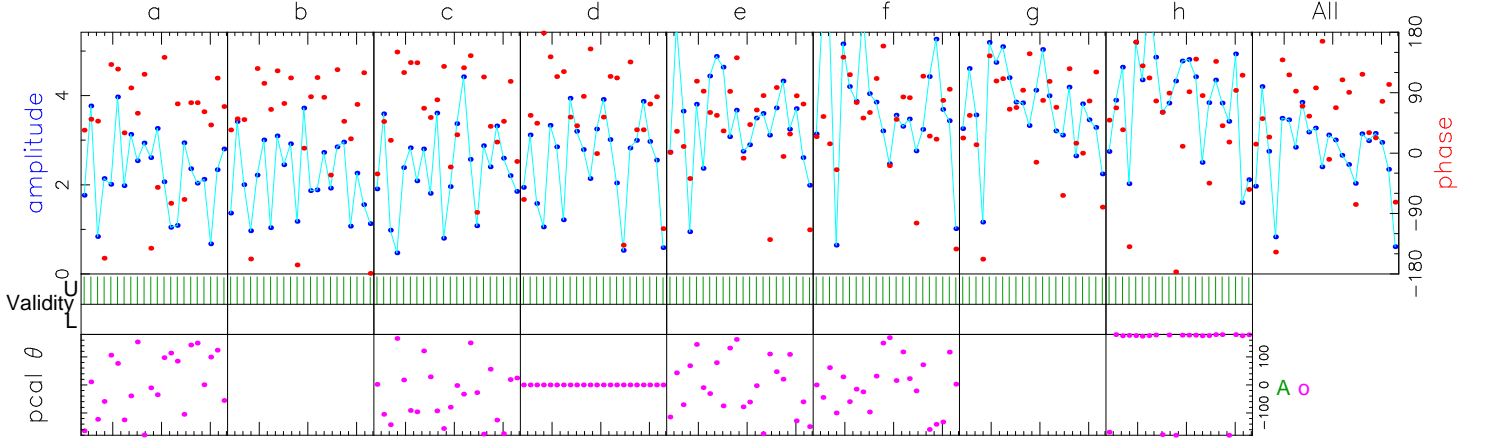
	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0		
A	0	0	0	0	0	0	0	0		
o	4000	0	5000	4000	2000	1000	0	2000		
A:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A:o	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
A	1000	1000	1000	1000	1000	1000	1000	1000		
o	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
o	W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR		
Group delay (usec)(sbd)	8.88277841924E+03		Apriori delay (usec)		8.88287601962E+03		Resid mbdelay (usec)		2.73996E-02	+/- 1.5E-04
Sband delay (usec)	8.88277817362E+03		Apriori clock (usec)		-2.1078730E+03		Resid sbdelay (usec)		-9.78460E-02	+/- 1.0E-03
Phase delay (usec)	8.88287602004E+03		Apriori clockrate (us/s)		1.5021560E-06		Resid phdelay (usec)		4.21524E-07	+/- 2.2E-07
Delay rate (us/s)	-1.00357324034E+00		Apriori rate (us/s)		-1.00357281234E+00		Resid rate (us/s)		-4.28000E-07	+/- 2.1E-09
Total phase (deg)			Apriori accel (us/s/s)		-3.74419244333E-06		Resid phase (deg)		13.1	+/- 6.8

ph/seg (deg) 65.2 16.0 Theor. Amplitude 0.649 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 98.9 27.9 Search (1024X64) 0.619 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 ph/frq (deg) 11.4 9.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 amp/frq (%) 43.7 16.8 Inc. seg. avg. 1.075 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 Inc. frq. avg. 0.632 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 o: az 161.2 el 20.9 pa -16.9 u,v (fr/asec) 6566.016 -7491.730 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gvma_32_pc1/1234/No0082/Ao..zrmnrj Output file: /Exps/mb007/gvma_32_pc1/1234/No0082/Ao.W.35.zrmnrj



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



86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
82.8	82.5	72.7	75.6	55.0	67.7	77.3	88.5	Phase	74.3
1.1	1.5	1.4	1.6	2.2	2.5	2.2	2.2	Ampl.	1.8
244.7	244.8	245.0	244.2	245.1	244.8	244.8	245.1	Sbd box	244.8
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
o 4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:o 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
o 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
o W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	8.88278030024E+03		Apriori delay (usec)	8.88287601962E+03		Resid mbdelay (usec)	2.92806E-02	+/-	5.2E-05
Sband delay (usec)	8.88278072112E+03		Apriori clock (usec)	-2.1078730E+03		Resid sbdelay (usec)	-9.52985E-02	+/-	3.7E-04
Phase delay (usec)	8.88287602202E+03		Apriori clockrate (us/s)	1.5021560E-06		Resid phdelay (usec)	2.39553E-06	+/-	7.9E-08
Delay rate (us/s)	-1.00357323728E+00		Apriori rate (us/s)	-1.00357281234E+00		Resid rate (us/s)	-4.24940E-07	+/-	7.6E-10
Total phase (deg)		193.2	Apriori accel (us/s/s)	-3.74419244333E-06		Resid phase (deg)	74.3	+/-	2.4

ph/seg (deg) 67.8 Theor. 5.7 Amplitude 1.807 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5

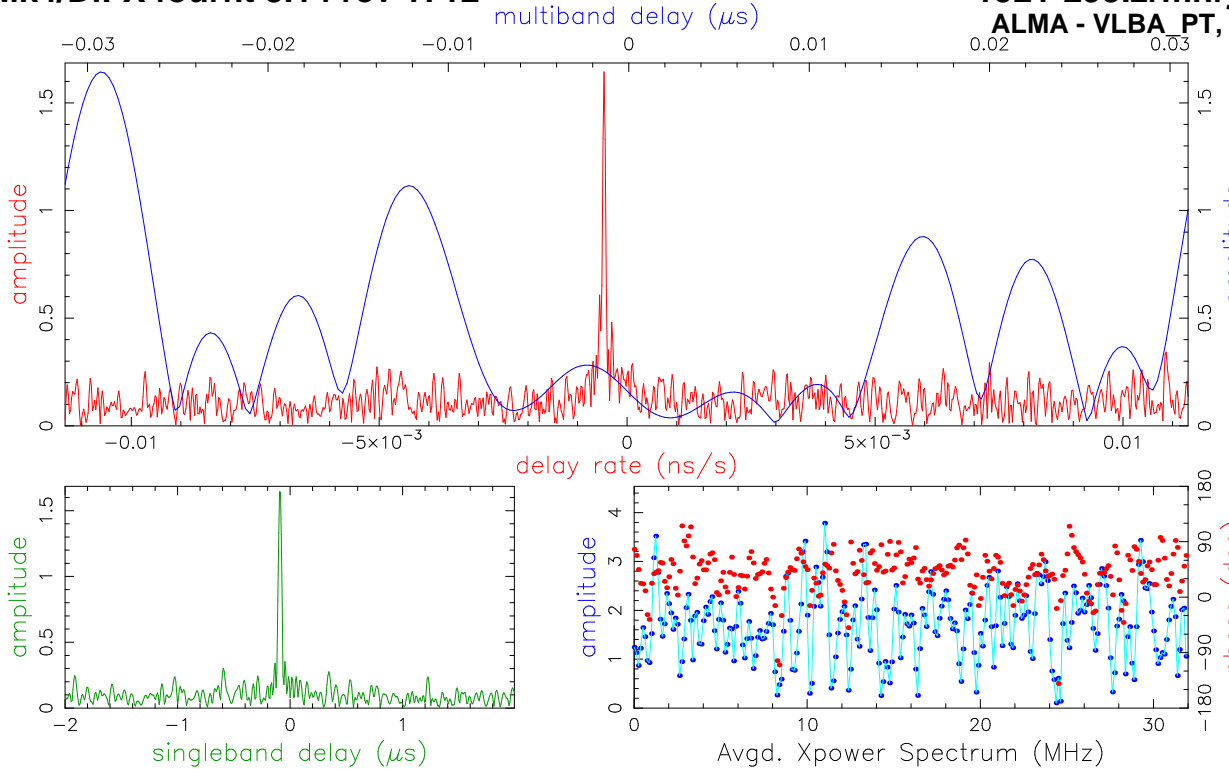
amp/seg (%) 70.0 10.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000

ph/frq (deg) 11.3 3.5 Inc. seg. avg. 2.751 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031

amp/frq (%) 26.2 6.0 Inc. frq. avg. 1.827 Data rate (Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011

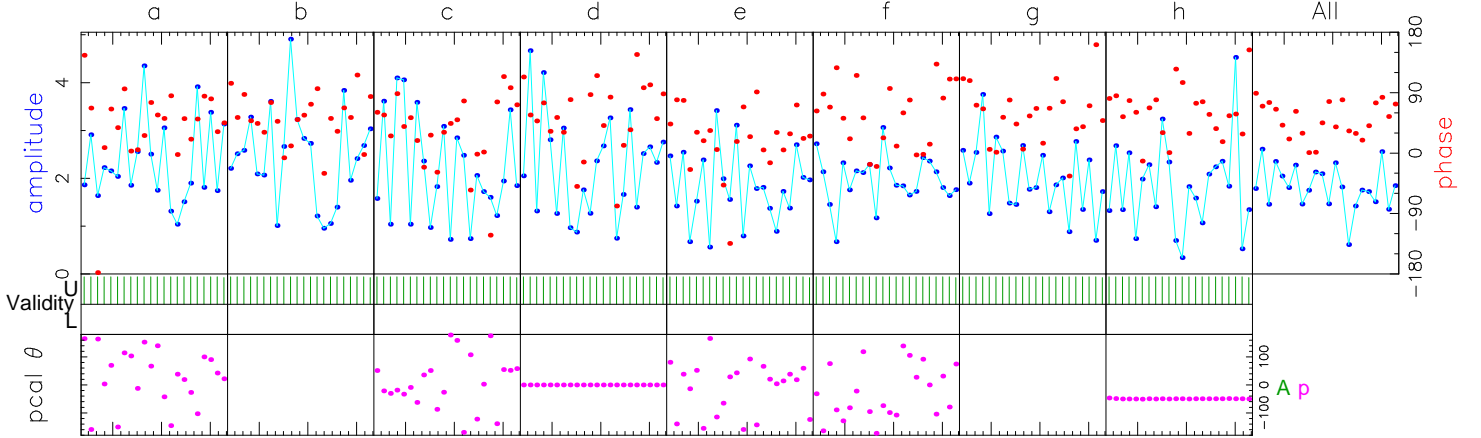
A: az 250.7 el 62.2 pa 84.2 o: az 161.2 el 20.9 pa -16.9 u,v (fr/asec) 6566.016 -7491.730 simultaneous interpolator

Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ao..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ao.W.36.zrmnrj



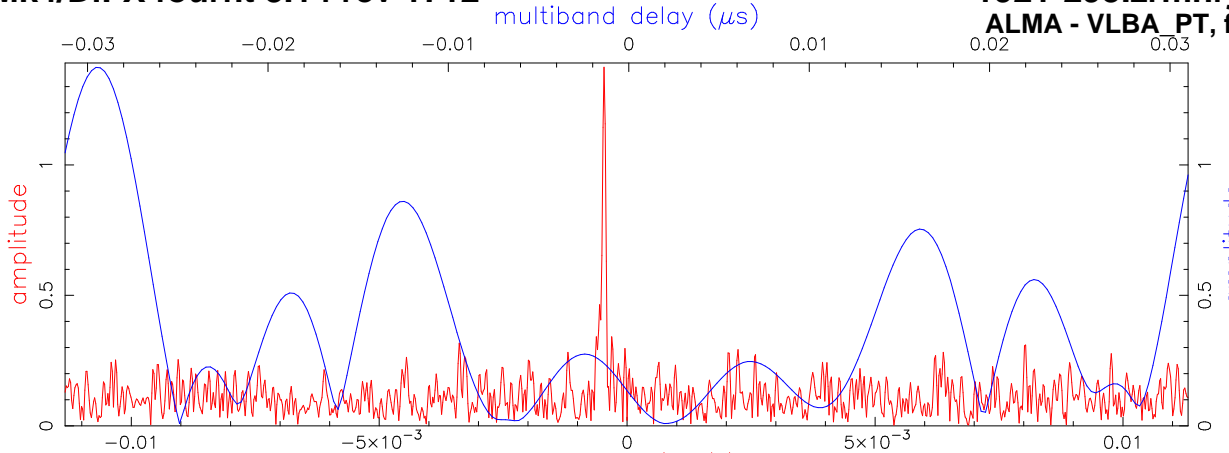
Fringe quality 8
 SNR 43.7
 Int time 179.944
 Amp 1.685
 Phase 51.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.089932
 MBD -0.029232
 Fringe rate (Hz)
 -0.040131
 Ion TEC 0.000
 Ref freq (MHz)
 86140.000
 AP (sec) 0.512
 Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024109
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

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

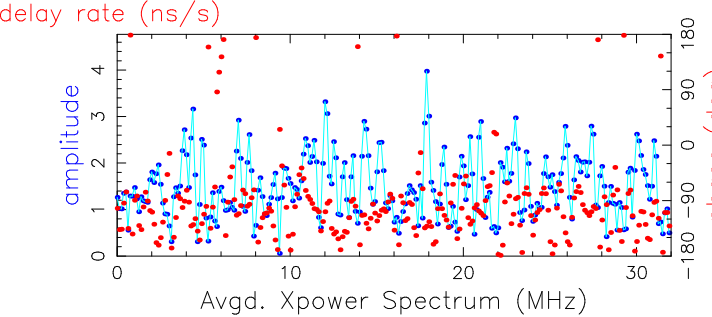
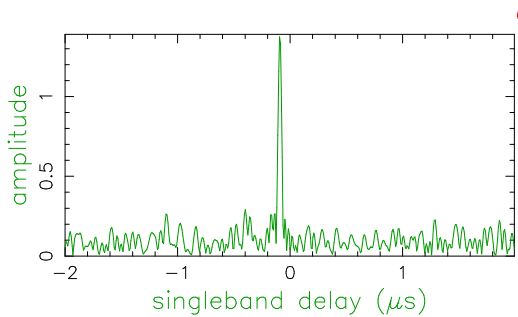


86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
53.5	53.2	46.0	63.5	27.8	54.6	55.5	53.8	Phase	51.6
1.9	2.1	1.6	1.8	1.4	1.4	1.6	1.5	Ampl.	1.7
245.3	245.2	246.0	245.5	245.5	246.1	245.2	245.2	Sbd box	245.5
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
p 4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	7.25311639667E+03		Apriori delay (usec)	7.25320812827E+03		Resid mbdelay (usec)	-2.92316E-02	+/-	5.6E-05
Sband delay (usec)	7.25311819627E+03		Apriori clock (usec)	-2.1080571E+03		Resid sbdelay (usec)	-8.99320E-02	+/-	3.9E-04
Phase delay (usec)	7.25320812994E+03		Apriori clockrate (us/s)	1.4954652E-06		Resid phdelay (usec)	1.66471E-06	+/-	8.5E-08
Delay rate (us/s)	-8.24983425827E-01		Apriori rate (us/s)	-8.24982959947E-01		Resid rate (us/s)	-4.65879E-07	+/-	8.1E-10
Total phase (deg)		112.6	Apriori accel (us/s/s)	2.64253789891E-06		Resid phase (deg)	51.6	+/-	2.6

RMS Theor. Amplitude 1.685 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 26.0 6.2 Search (1024X64) 1.635 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 28.1 10.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 ph/frq (deg) 11.4 3.7 Inc. seg. avg. 1.818 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 13.1 6.5 Inc. frq. avg. 1.664 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 A: az 250.7 el 62.2 pa 84.2 p: az 170.3 el 25.8 pa -8.9 u,v (fr/asec) 5401.688 -7457.114 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gvma_32_pc1/1234/No0082/Ap..zrmnrj Output file: /Exps/mb007/gvma_32_pc1/1234/No0082/Ap.W.37.zrmnrj

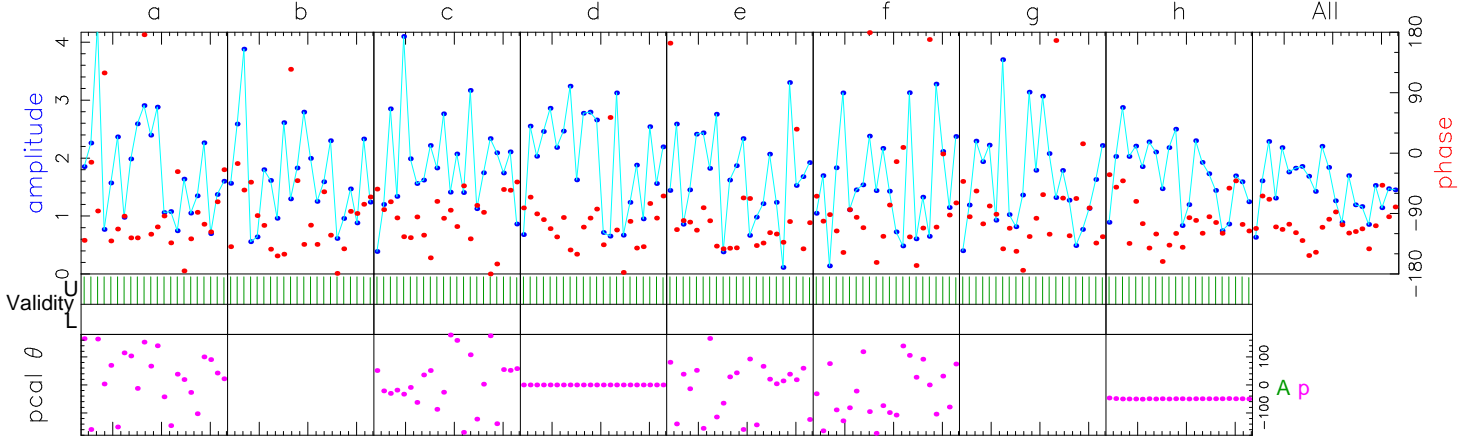


Fringe quality 8
 SNR 36.1
 Int time 179.944
 Amp 1.391
 Phase -106.5
 PFD 0.0e+00
 Delays (us)
 SBD -0.091127
 MBD -0.029451
 Fringe rate (Hz)
 -0.040469
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512



Exp. mb007
 Exper # 16383
 Yr:day 2017:093
 Start 131121.00
 Stop 131421.22
 FRT 131251.00
 Corr/FF/build
 2017:237:124829
 2017:244:024111
 2017:170:130423
 RA & Dec (J2000)
 19h24m51.0560s
 -29°14'30.121"

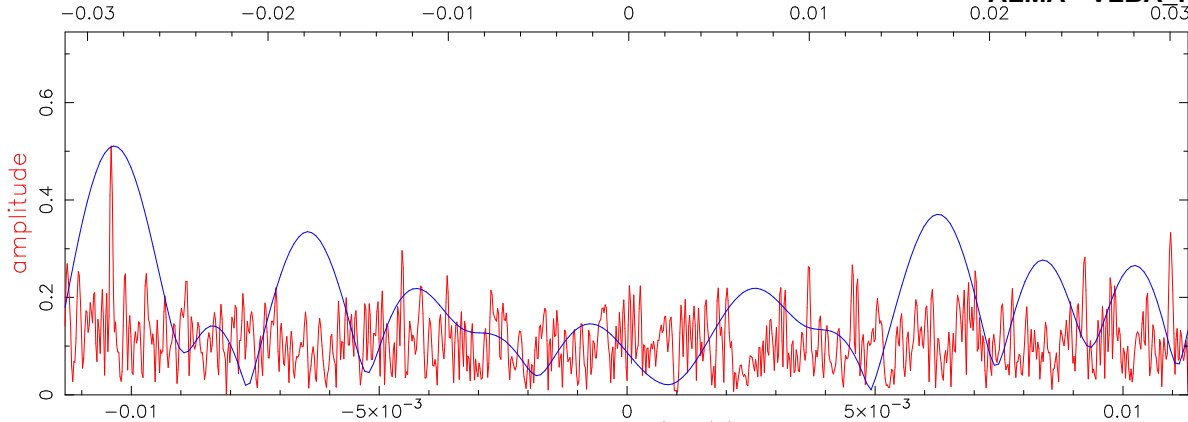
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
	-110.7	-100.3	-103.7	-105.1	-114.2	-111.2	-106.3	-101.5	Phase	-106.5
	1.3	1.1	1.5	1.7	1.4	1.2	1.3	1.4	Ampl.	1.4
	245.8	245.3	245.3	245.1	245.7	245.2	245.3	245.2	Sbd box	245.3
U/L	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A	0	0	0	0	0	0	0	0	PC freqs	
p	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
									Tracks	
p	W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.25311617704E+03		Apriori delay (usec)		7.25320812827E+03		Resid mbdelay (usec)		-2.94512E-02	+/- 6.8E-05
Sband delay (usec)	7.25311700127E+03		Apriori clock (usec)		-2.1080571E+03		Resid sbdelay (usec)		-9.11270E-02	+/- 4.8E-04
Phase delay (usec)	7.25320812484E+03		Apriori clockrate (us/s)		1.4954652E-06		Resid phdelay (usec)		-3.43515E-06	+/- 1.0E-07
Delay rate (us/s)	-8.24983429748E-01		Apriori rate (us/s)		-8.24982959947E-01		Resid rate (us/s)		-4.69801E-07	+/- 9.9E-10
Total phase (deg)			Apriori accel (us/s/s)		2.64253789891E-06		Resid phase (deg)		-106.5	+/- 3.2

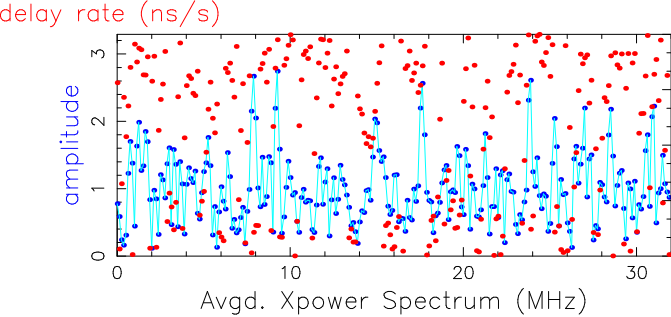
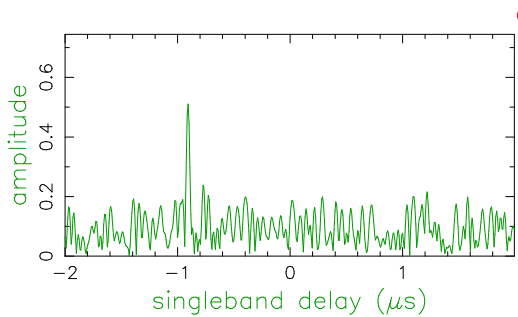
RMS Theor. Amplitude 1.391 +/- 0.039 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 25.3 7.5 Search (1024X64) 1.358 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 32.1 13.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 ph/frq (deg) 5.4 4.5 Inc. seg. avg. 1.501 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 13.0 7.8 Inc. frq. avg. 1.376 simultaneous interpolator ion window (TEC) 0.00 0.00
 A: az 250.7 el 62.2 pa 84.2 p: az 170.3 el 25.8 pa -8.9 u,v (fr/asec) 5401.688 -7457.114
 Control file: cf_1234 Input file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ap..zrmnrj Output file: /Exps/mb007/gmva_32_pc1/1234/No0082/Ap.W.38.zrmnrj

multiband delay (μs)



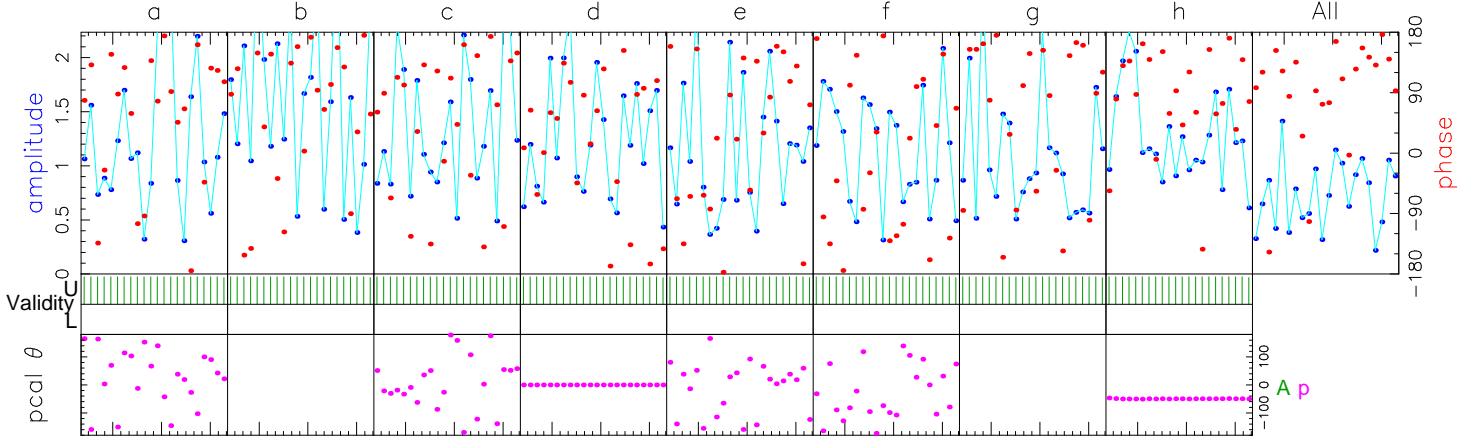
Fringe quality 9

SNR 13.3
Int time 179.944
Amp 0.745
Phase 126.4
PFD 1.5e-31
Delays (us)
SBD -0.907573
MBD -0.028512
Fringe rate (Hz)
-0.896514
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512



Exp. mb007
Exper # 16383
Yr:day 2017:093
Start 131121.00
Stop 131421.22
FRT 131251.00
Corr/FF/build
2017:237:124829
2017:244:024113
2017:170:130423
RA & Dec (J2000)
19h24m51.0560s
-29°14'30.121"

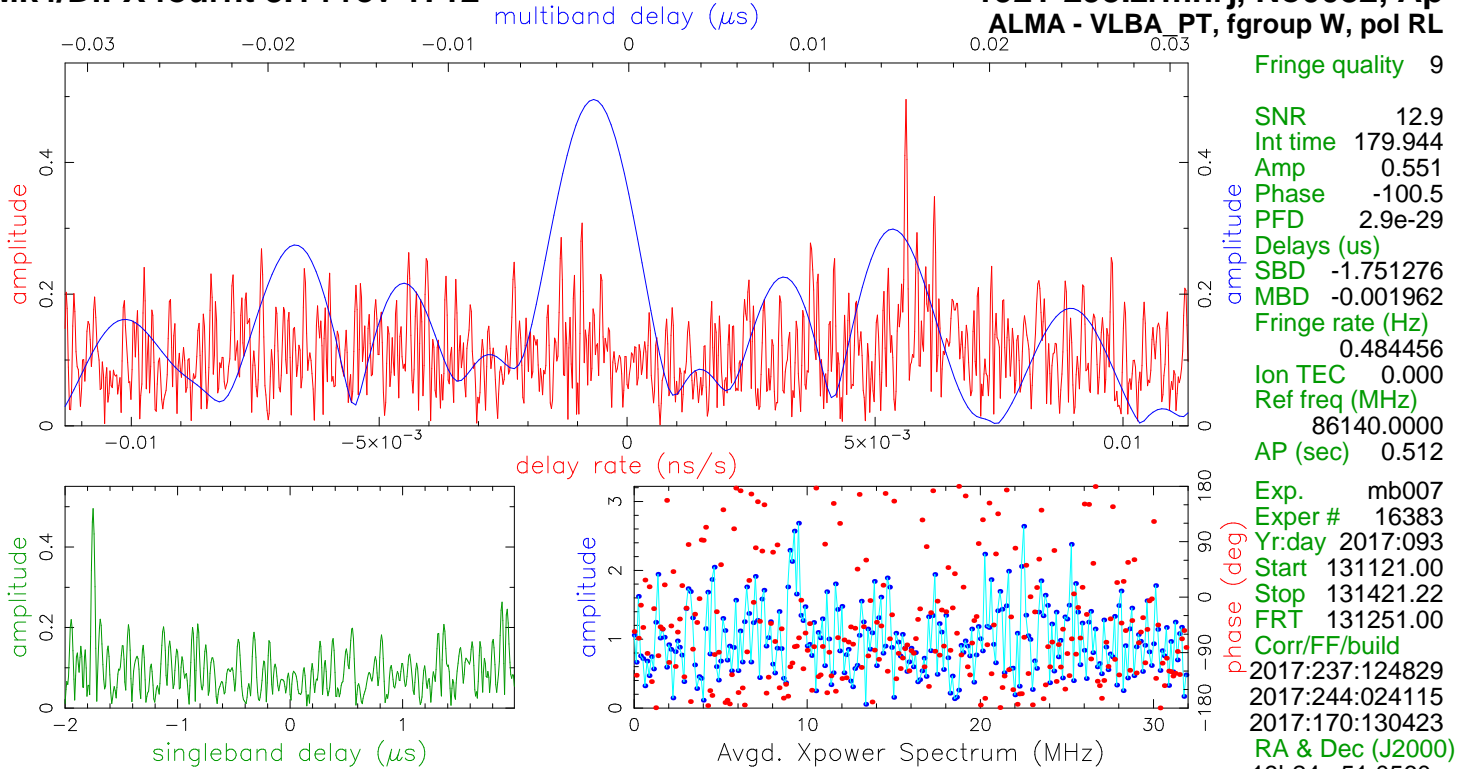
Amp. and Phase vs. time for each freq., 22 segs, 16 APs / seg (8.19 sec / seg.), time ticks 10 sec



	86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
U/L	125.9	129.5	133.2	95.1	130.5	-141.9	148.2	104.9	Phase	126.4
A	1.1	1.0	0.7	0.9	0.7	0.4	0.8	1.1	Ampl.	0.8
p	126.2	350.5	491.1	246.4	32.5	325.2	326.6	140.8	Sbd box	140.8
A	352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
p	4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:p	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
A	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p	1000	1000	1000	1000	1000	1000	1000	1000		
A	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
p	W01UR	W02UR	W05UR	W06UR	W07UR	W08UR	W11UR	W12UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	7.25230461581E+03		Apriori delay (usec)		7.25320812827E+03		Resid mbdelay (usec)		-2.85125E-02	+/- 1.8E-04
Sband delay (usec)	7.25230055577E+03		Apriori clock (usec)		-2.1080571E+03		Resid sbdelay (usec)		-9.07573E-01	+/- 1.3E-03
Phase delay (usec)	7.25320813235E+03		Apriori clockrate (us/s)		1.4954652E-06		Resid phdelay (usec)		4.07469E-06	+/- 2.8E-07
Delay rate (us/s)	-8.24993367586E-01		Apriori rate (us/s)		-8.24982959947E-01		Resid rate (us/s)		-1.04076E-05	+/- 2.7E-09
Total phase (deg)	187.3		Apriori accel (us/s/s)		2.64253789891E-06		Resid phase (deg)		126.4	+/- 8.6

ph/seg (deg) 55.9 20.2 Search (1024X64) 0.502 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 74.2 35.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
ph/frq (deg) 41.7 12.2 Inc. seg. avg. 1.009 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
amp/frq (%) 32.2 21.3 Inc. frq. avg. 0.810 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 p: az 170.3 el 25.8 pa -8.9 u,v (fr/asec) 5401.688 -7457.114 simultaneous interpolator
Control file: cf_1234 Input file: /Exps/m007/gmva_32_pc1/1234/No0082/Ap..zrmnrj Output file: /Exps/m007/gmva_32_pc1/1234/No0082/Ap.W.39.zrmnrj

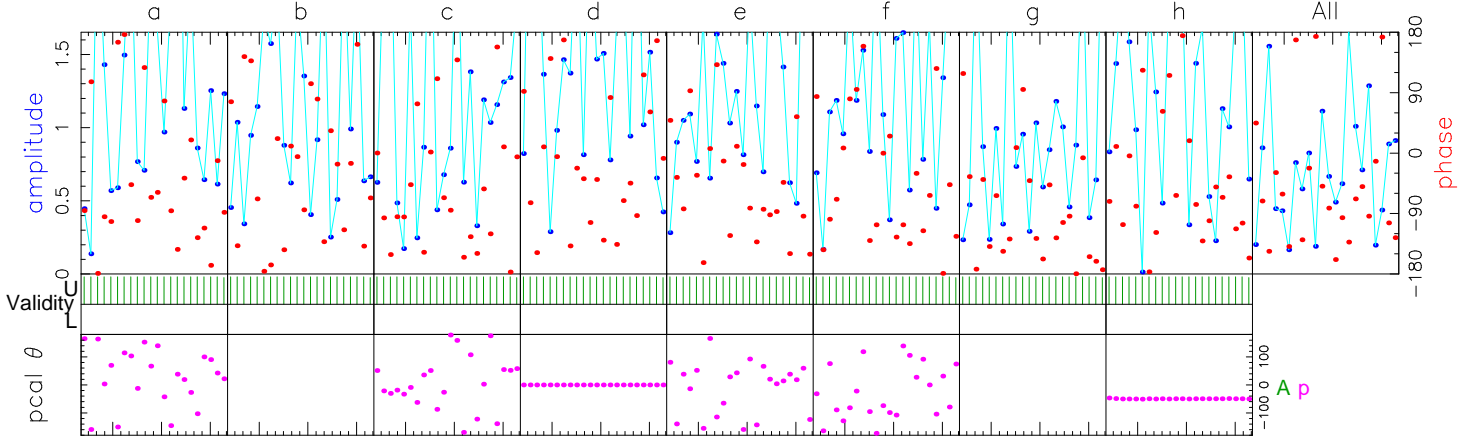


Fringe quality 9

SNR 12.9
Int time 179.944
Amp 0.551
Phase -100.5
PFD 2.9e-29
Delays (us)
SBD -1.751276
MBD -0.001962
Fringe rate (Hz)
0.484456
Ion TEC 0.000
Ref freq (MHz)
86140.000
AP (sec) 0.512

Exp. mb007
Exper # 16383
Yr:day 2017:093
Start 131121.00
Stop 131421.22
FRT 131251.00
Corr/FF/build
2017:237:124829
2017:244:024115
2017:170:130423
RA & Dec (J2000)
19h24m51.0560s
-29°14'30.121"

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



86156.00	86172.00	86220.00	86236.00	86268.00	86284.00	86332.00	86348.00	Freq (MHz)	All
-104.6	-126.6	-96.8	-86.5	-89.0	-94.1	-123.8	-100.1	Phase	-100.5
0.7	0.3	0.4	0.7	0.7	0.5	0.5	0.7	Ampl.	0.6
407.9	477.4	447.7	449.4	449.3	290.0	152.0	153.3	Sbd box	32.8
U/L 352/0	352/0	352/0	352/0	352/0	352/0	352/0	352/0	APs used	
A 0	0	0	0	0	0	0	0	PC freqs	
p 4000	0	5000	4000	2000	1000	0	2000	PC freqs	
A:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
A:p 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	ManI PC	
A 1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
p 1000	1000	1000	1000	1000	1000	1000	1000		
A W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
p W01UL	W02UL	W05UL	W06UL	W07UL	W08UL	W11UL	W12UL	Tracks	
								Chan ids	
								Tracks	
Group delay (usec)(sbd)	7.25145616663E+03		Apriori delay (usec)	7.25320812827E+03		Resid mbdelay (usec)	-1.96164E-03	+/-	1.9E-04
Sband delay (usec)	7.25145685227E+03		Apriori clock (usec)	-2.1080571E+03		Resid sbdelay (usec)	-1.75128E+00	+/-	1.3E-03
Phase delay (usec)	7.25320812503E+03		Apriori clockrate (us/s)	1.4954652E-06		Resid phdelay (usec)	-3.24070E-06	+/-	2.9E-07
Delay rate (us/s)	-8.24977335890E-01		Apriori rate (us/s)	-8.24982959947E-01		Resid rate (us/s)	5.62406E-06	+/-	2.8E-09
Total phase (deg)		-39.6	Apriori accel (us/s/s)	2.64253789891E-06		Resid phase (deg)	-100.5	+/-	8.9

RMS Theor. Amplitude 0.551 +/- 0.043 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 61.0 20.9 Search (1024X64) 0.480 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -2.000 2.000
 amp/seg (%) 94.9 36.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.031 0.031
 ph/frq (deg) 16.5 12.6 Inc. seg. avg. 0.757 Sample rate(MSamp/s): 64 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite dr window (ns/s) -0.011 0.011
 amp/frq (%) 24.6 21.9 Inc. frq. avg. 0.551 Data rate(Mb/s): 1024 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

A: az 250.7 el 62.2 pa 84.2 p: az 170.3 el 25.8 pa -8.9 u,v (fr/asec) 5401.688 -7457.114 simultaneous interpolator
 Control file: cf_1234 Input file: /Exps/mb007/gvma_32_pc1/1234/No0082/Ap..zrmnrj Output file: /Exps/mb007/gvma_32_pc1/1234/No0082/Ap.W.40.zrmnrj