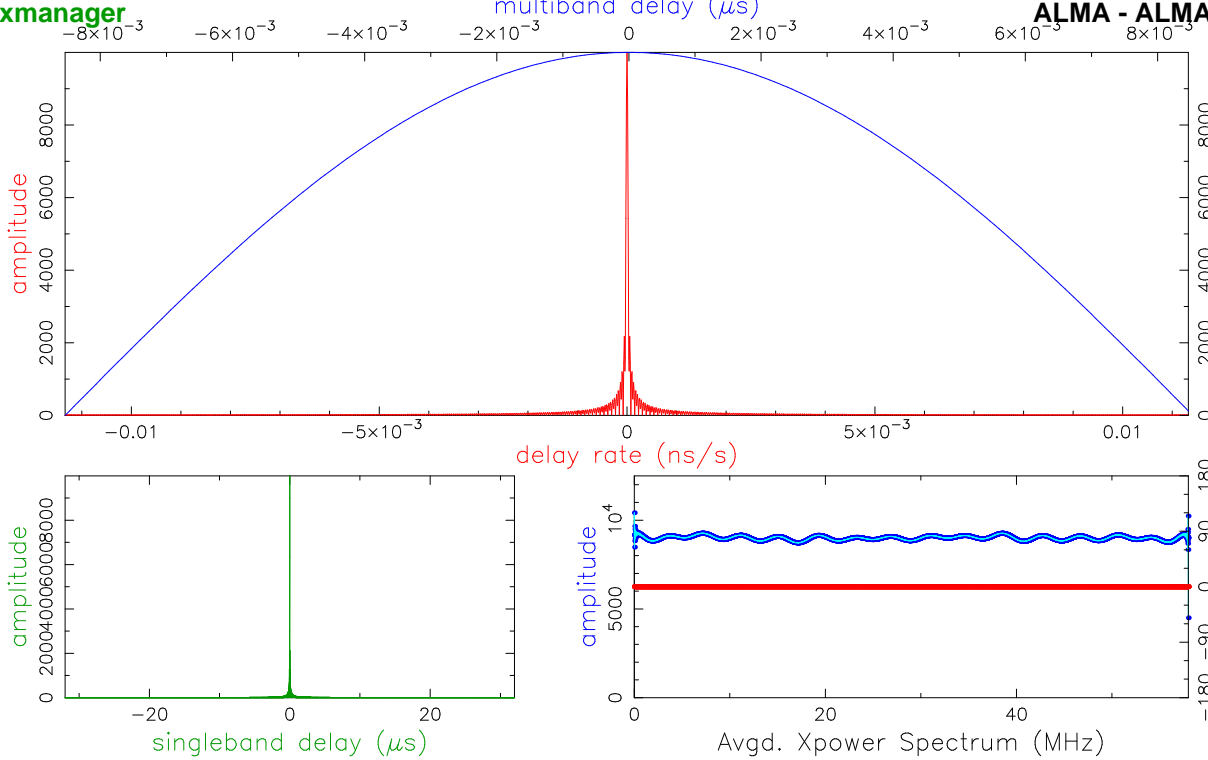


Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

1055+018.1RFT2J, No0001, AA

ALMA - ALMA, fgroup W, pol XX

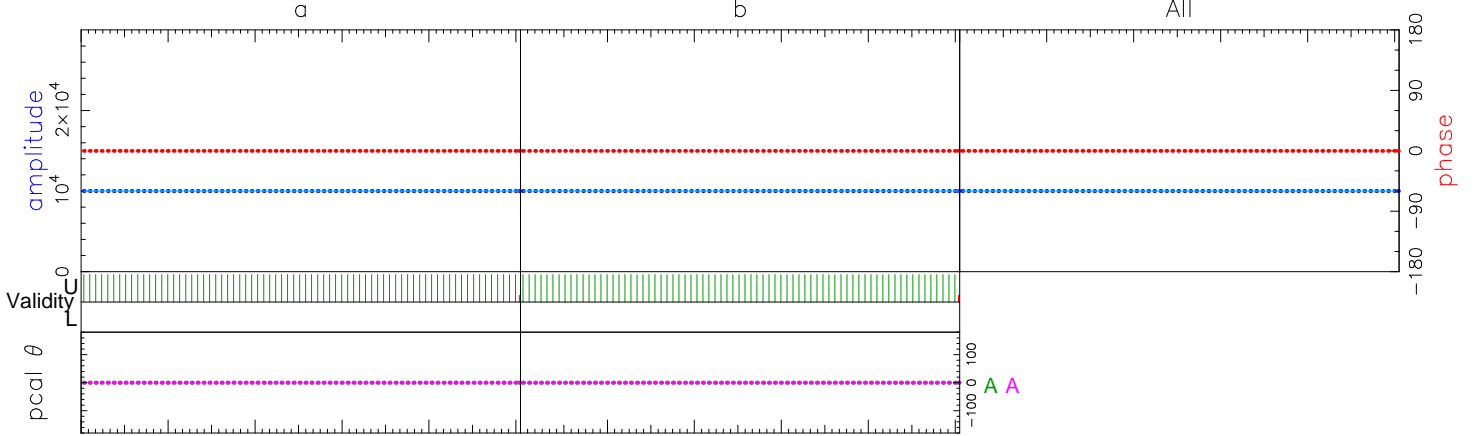


Fringe quality 9

SNR 225444.5
 Int time 299.983
 Amp 9999.999
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz) 0.000000
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c211d
 Exper # 16383
 Yr:day 2021:116
 Start 220000.00
 Stop 220500.03
 FRT 220230.00
 Corr/FF/build
 2021:194:213344
 2021:194:215423
 2021:057:122453
 RA & Dec (J2000)
 10h58m29.605207s
 +01°33'58.823723"

Amp. and Phase vs. time for each freq., 74 segs, 8 APs / seg (4.10 sec / seg.), time ticks 5 sec



	86209.70	86268.30	Freq (MHz)	All
U/L	586/0	586/0		
A	0	0	Phase	0.0
A:A	0:0	0:0	Ampl.	10000.0
A:A	0:0	0:0	Sbd box	7425.0
A	1000	1000	APs used	
A	1000	1000	PC freqs	
A	W00UX	W01UX	PC phase	
A	W00UX	W01UX	Manl PC	
			PC amp	
			Chan ids	
			Tracks	
			Chan ids	
			Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/-	2.4E-08
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/-	4.2E-08
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/-	1.6E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/-	9.5E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/-	0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	9999.999 +/- 0.044	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	0.0	0.0	Search (2048X8)	9999.999	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000	
ph/frq (deg)	0.0	0.0	Inc. seg. avg.	10000.000	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us)	-0.009 0.009
amp/frq (%)	0.0	0.0	Inc. frq. avg.	9999.999	Sample rate(MISamp/s): 116		dr window (ns/s)	-0.011 0.011
					Data rate(Mb/s): 464	nlags: 7424 t_cohere infinite	ion window (TEC)	0.00 0.00

A: az 68.7 el 37.7 pa -121.0 A: az 68.7 el 37.7 pa -121.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

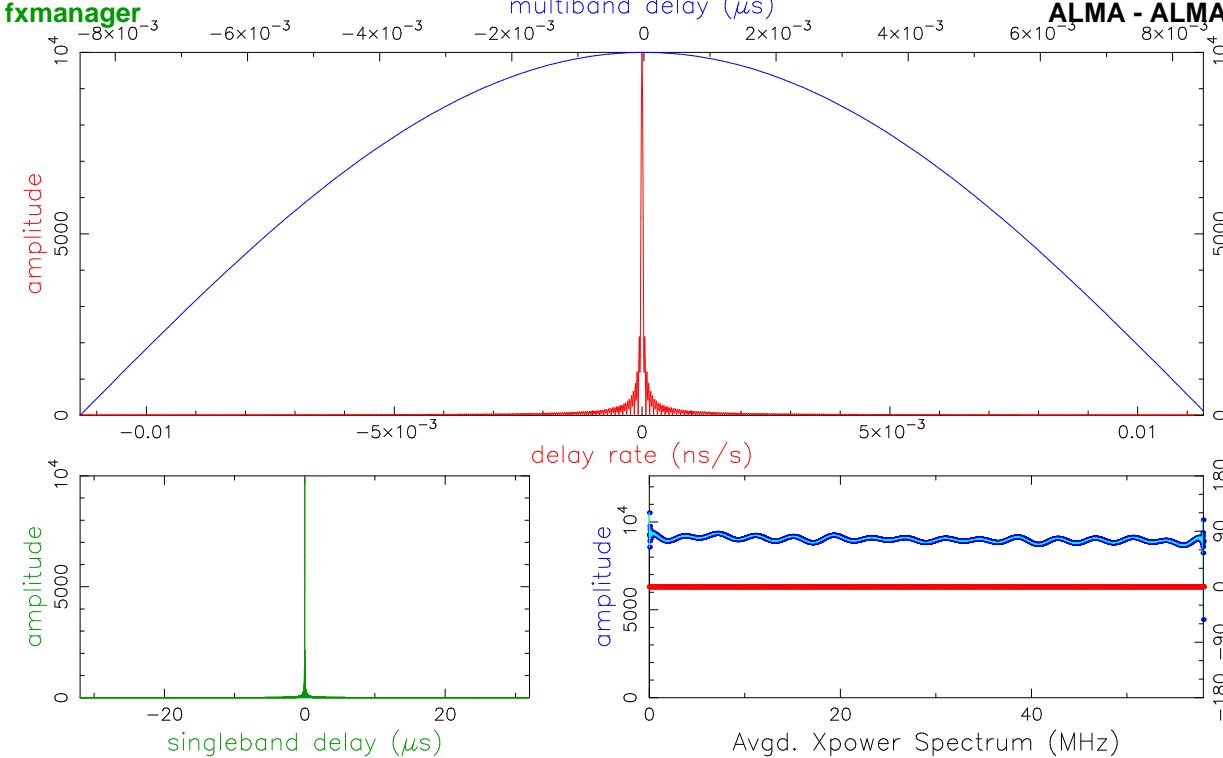
Control file: cf_1234_gmva Input file: /Exps/c211d/v1/1234/No0001/AA..1RFT2J Output file: /Exps/c211d/v1/1234/No0001/AA.W.1.1RFT2J

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

1055+018.1RFT2J, No0001, AA

ALMA - ALMA, fgroup W, pol YY

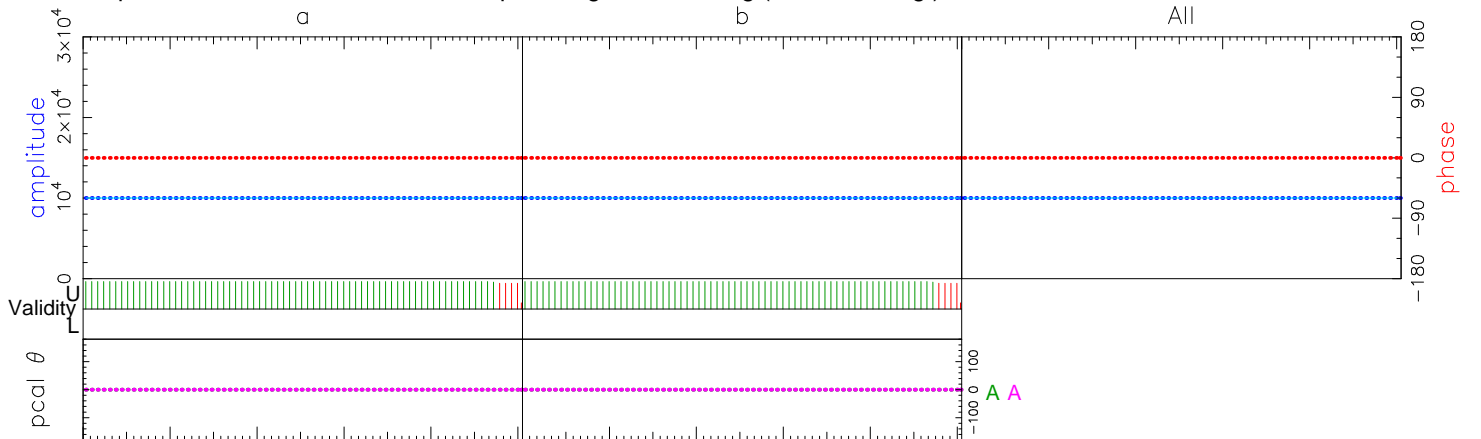


Fringe quality 9

SNR 224996.9
 Int time 298.792
 Amp 10000.004
 Phase 0.0
 PFD 0.0e+00
 Delays (us)
 SBD 0.000000
 MBD 0.000000
 Fringe rate (Hz)
 0.000000
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c211d
 Exper # 16383
 Yr:day 2021:116
 Start 220000.00
 Stop 220500.03
 FRT 220230.00
 Corr/FF/build
 2021:194:213344
 2021:194:215440
 2021:057:122453
 RA & Dec (J2000)
 10h58m29.605207s
 +01°33'58.823723"

Amp. and Phase vs. time for each freq., 74 segs, 8 APs / seg (4.10 sec / seg.), time ticks 5 sec



86209.70	86268.30	Freq (MHz)	All
0.0	0.0	Phase	0.0
10000.0	10000.0	Ampl.	10000.0
7425.0	7425.0	Sbd box	7425.0
U/L 586/0	586/0	APs used	
A 0	0	PC freqs	
A 0	0	PC freqs	
A:A 0:0	0:0	PC phase	
A:A 0:0	0:0	Manl PC	
A 1000	1000	PC amp	
A 1000	1000		
A W00UY	W01UY	Chan ids	
A W00UY	W01UY	Tracks	
		Chan ids	
		Tracks	

Group delay (usec)(sbd)	0.0000000000E+00	Apriori delay (usec)	0.0000000000E+00	Resid mbdelay (usec)	0.00000E+00	+/- 2.4E-08
Sband delay (usec)	0.0000000000E+00	Apriori clock (usec)	0.0000000E+00	Resid sbdelay (usec)	0.00000E+00	+/- 4.2E-08
Phase delay (usec)	0.0000000000E+00	Apriori clockrate (us/s)	0.0000000E+00	Resid phdelay (usec)	0.00000E+00	+/- 1.6E-11
Delay rate (us/s)	0.0000000000E+00	Apriori rate (us/s)	0.0000000000E+00	Resid rate (us/s)	0.00000E+00	+/- 9.5E-14
Total phase (deg)	0.0	Apriori accel (us/s/s)	0.0000000000E+00	Resid phase (deg)	0.0	+/- 0.0

ph/seg (deg)	0.0	Theor.	0.0	Amplitude	10000.004 +/- 0.044	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	0.0		0.0	Search (2048X8)	10000.003	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -32.000 32.000
ph/frq (deg)	0.0		0.0	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	0.0		0.0	Inc. seg. avg.	10000.000	Sample rate(MISamp/s): 116	mb window (us) -0.009 0.009
				Inc. frq. avg.	10000.003	Data rate(Mb/s): 464	dr window (ns/s) -0.011 0.011
						nlags: 7424 t_cohere infinite	ion window (TEC) 0.00 0.00

A: az 68.7 el 37.7 pa -121.0 A: az 68.7 el 37.7 pa -121.0 u,v (fr/asec) 0.000 0.000 simultaneous interpolator

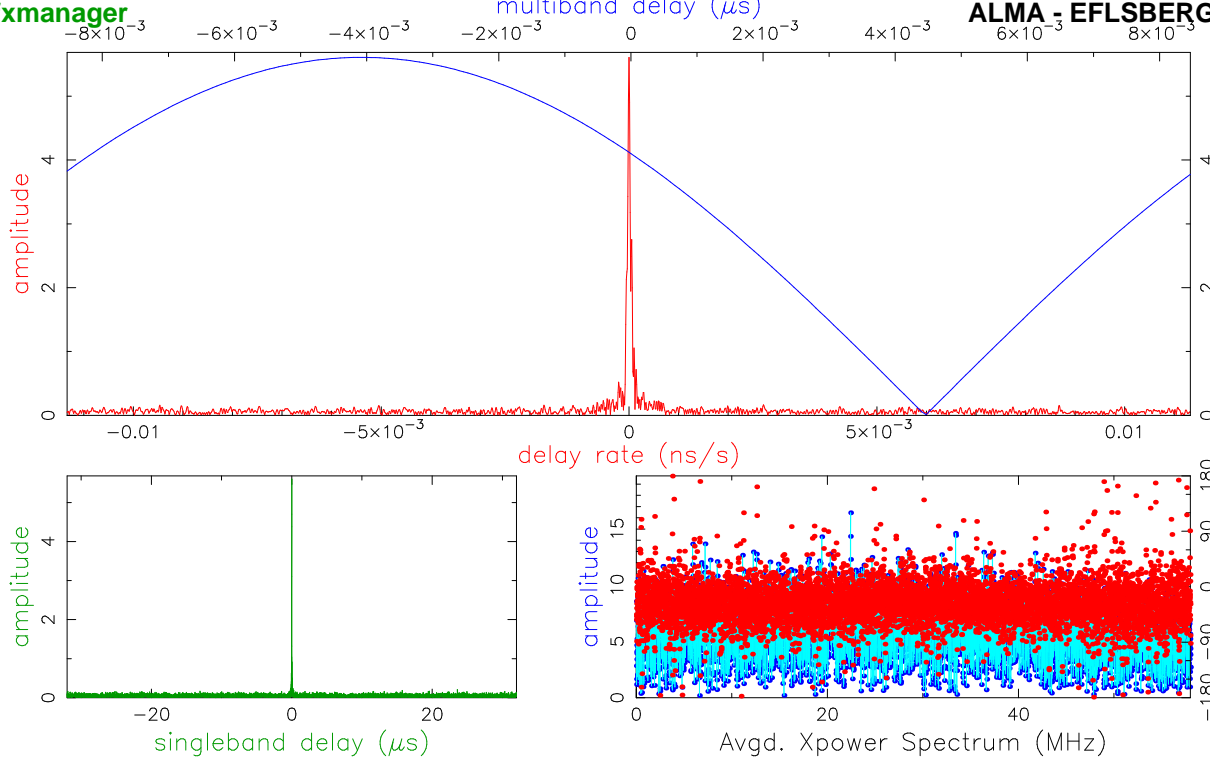
Control file: cf_1234_gmva Input file: /Exps/c211d/v1/1234/No0001/AA..1RFT2J Output file: /Exps/c211d/v1/1234/No0001/AA.W.4.1RFT2J

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fxmanager

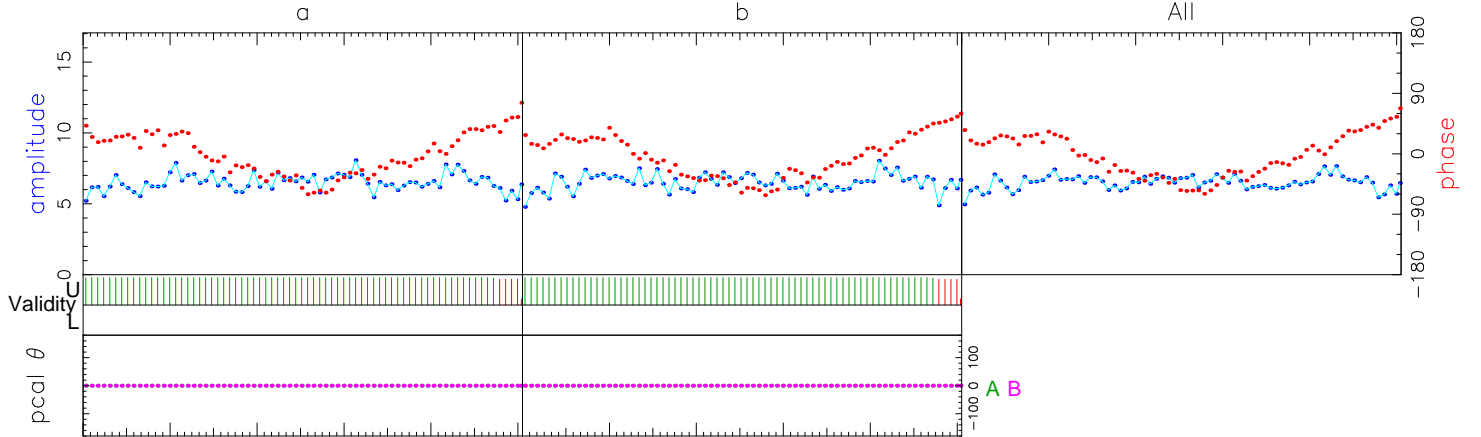
1055+018.1RFT2J, No0001, AB

ALMA - EFLSBERG, fgroup W, pol YL



Fringe quality 7
 SNR 127.9
 Int time 298.780
 Amp 5.686
 Phase -3.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.001664
 MBD -0.003944
 Fringe rate (Hz)
 0.000175
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c211d
 Exper # 16383
 Yr:day 2021:116
 Start 220000.00
 Stop 220500.03
 FRT 220230.00
 Corr/FF/build
 2021:194:213344
 2021:194:215519
 2021:057:122453
 RA & Dec (J2000)
 10h58m29.605207s
 +01°33'58.823723"

Amp. and Phase vs. time for each freq., 74 segs, 8 APs / seg (4.10 sec / seg.), time ticks 5 sec



86209.70		86268.30		Freq (MHz)	All
-1.7		-4.5		Phase	-3.1
5.6		5.6		Ampl.	5.6
7424.7		7424.6		Sbd box	7424.6
U/L 586/0		586/0		APs used	
A 0		0		PC freqs	
B 296		1000		PC freqs	
A:B 0:0		0:0		PC phase	
A:B 0:0		0:0		Manl PC	
A 1000		1000		PC amp	
B 1000		1000			
A W00UY		W01UY		Chan ids	
B W02UL		W03UL		Tracks	
				Chan ids	
				Tracks	
Group delay (usec)(sbd)	-1.31294513698E+03	Apriori delay (usec)	-1.31294119322E+03	Resid mbdelay (usec)	-3.94377E-03 +/- 4.2E-05
Sband delay (usec)	-1.31294285722E+03	Apriori clock (usec)	-2.0855212E+03	Resid sbdelay (usec)	-1.66400E-03 +/- 7.4E-05
Phase delay (usec)	-1.31294119332E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-1.00226E-07 +/- 2.9E-08
Delay rate (us/s)	1.50340797050E+00	Apriori rate (us/s)	1.50340796846E+00	Resid rate (us/s)	2.03710E-09 +/- 1.7E-10
Total phase (deg)	-141.3	Apriori accel (us/s/s)	-7.42629426708E-06	Resid phase (deg)	-3.1 +/- 0.9

ph/seg (deg)	31.0	Theor.	3.9	Amplitude	5.686 +/- 0.044	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	16.8		6.7	Search (2048X8)	5.581	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-32.000 32.000	
ph/frq (deg)	0.0		0.6	Interp.	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.009 0.009
amp/frq (%)	1.4		1.1	Inc. seg. avg.	6.495	Sample rate (MSamp/s):	116	dr window (ns/s)	-0.011 0.011	
				Inc. frq. avg.	5.607	Data rate (Mb/s):	464	ion window (TEC)	0.00 0.00	

A: az 68.7 el 37.7 pa -121.0 B: az 214.2 el 35.8 pa 20.6 u,v (fr/asec) -8613.584 -10298.090 simultaneous interpolator

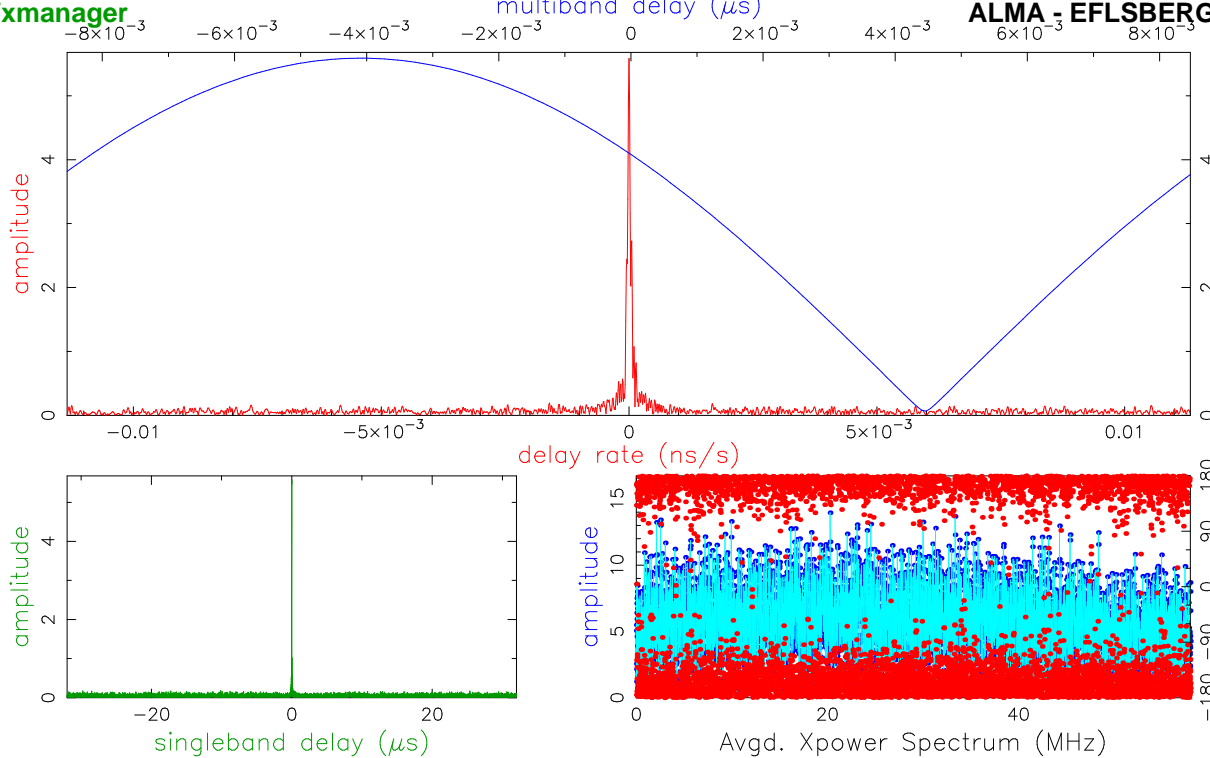
Control file: cf_1234_gmva Input file: /Exps/c211d/v1/1234/No0001/AB..1RFT2J Output file: /Exps/c211d/v1/1234/No0001/AB.W.10.1RFT2J

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fxmanager

1055+018.1RFT2J, No0001, AB

ALMA - EFLSBERG, fgroup W, pol XL

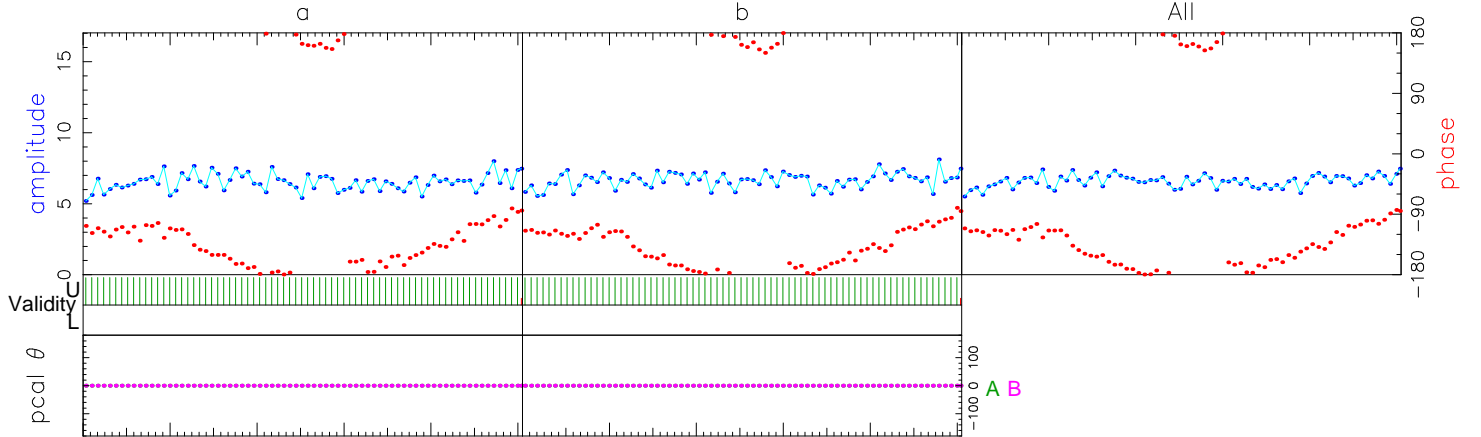


Fringe quality 7

SNR 128.0
 Int time 299.970
 Amp 5.678
 Phase -144.1
 PFD 0.0e+00
 Delays (us)
 SBD -0.001783
 MBD -0.003945
 Fringe rate (Hz)
 0.000218
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

Exp. c211d
 Exper # 16383
 Yr:day 2021:116
 Start 220000.00
 Stop 220500.03
 FRT 220230.00
 Corr/FF/build
 2021:194:213344
 2021:194:215426
 2021:057:122453
 RA & Dec (J2000)
 10h58m29.605207s
 +01°33'58.823723"

Amp. and Phase vs. time for each freq., 74 segs, 8 APs / seg (4.10 sec / seg.), time ticks 5 sec



86209.70		86268.30		Freq (MHz)	All
-142.6		-145.5		Phase	-144.1
5.5		5.7		Ampl.	5.6
7424.7		7424.5		Sbd box	7424.6
U/L 586/0		586/0		APs used	
A 0		0		PC freqs	
B 296		1000		PC freqs	
A:B 0:0		0:0		PC phase	
A:B 0:0		0:0		Manl PC	
A 1000		1000		PC amp	
B 1000		1000			
A W00UX		W01UX		Chan ids	
B W02UL		W03UL		Tracks	
				Chan ids	
				Tracks	
Group delay (usec)(sbd)	-1.31294513862E+03	Apriori delay (usec)	-1.31294119322E+03	Resid mbdelay (usec)	-3.94540E-03 +/- 4.2E-05
Sband delay (usec)	-1.31294297612E+03	Apriori clock (usec)	-2.0855212E+03	Resid sbdelay (usec)	-1.78290E-03 +/- 7.4E-05
Phase delay (usec)	-1.31294119787E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	-4.64680E-06 +/- 2.9E-08
Delay rate (us/s)	1.50340797099E+00	Apriori rate (us/s)	1.50340796846E+00	Resid rate (us/s)	2.53380E-09 +/- 1.7E-10
Total phase (deg)	-282.3	Apriori accel (us/s/s)	-7.42629426708E-06	Resid phase (deg)	-144.1 +/- 0.9

ph/seg (deg)	RMS 32.2	Theor. 3.9	Amplitude 5.678 +/- 0.044	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	17.5	6.7	Search (2048X8) 5.546	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -32.000 32.000
ph/frq (deg)	0.0	0.6	Interp. 0.000	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	2.0	1.1	Inc. seg. avg. 6.564	Sample rate(MISamp/s): 116	dr window (ns/s) -0.011 0.011
			Inc. frq. avg. 5.587	Data rate(Mb/s): 464	ion window (TEC) 0.00 0.00
				nlags: 7424 t_cohere infinite	

A: az 68.7 el 37.7 pa -121.0 B: az 214.2 el 35.8 pa 20.6 u,v (fr/asec) -8613.584 -10298.090 simultaneous interpolator

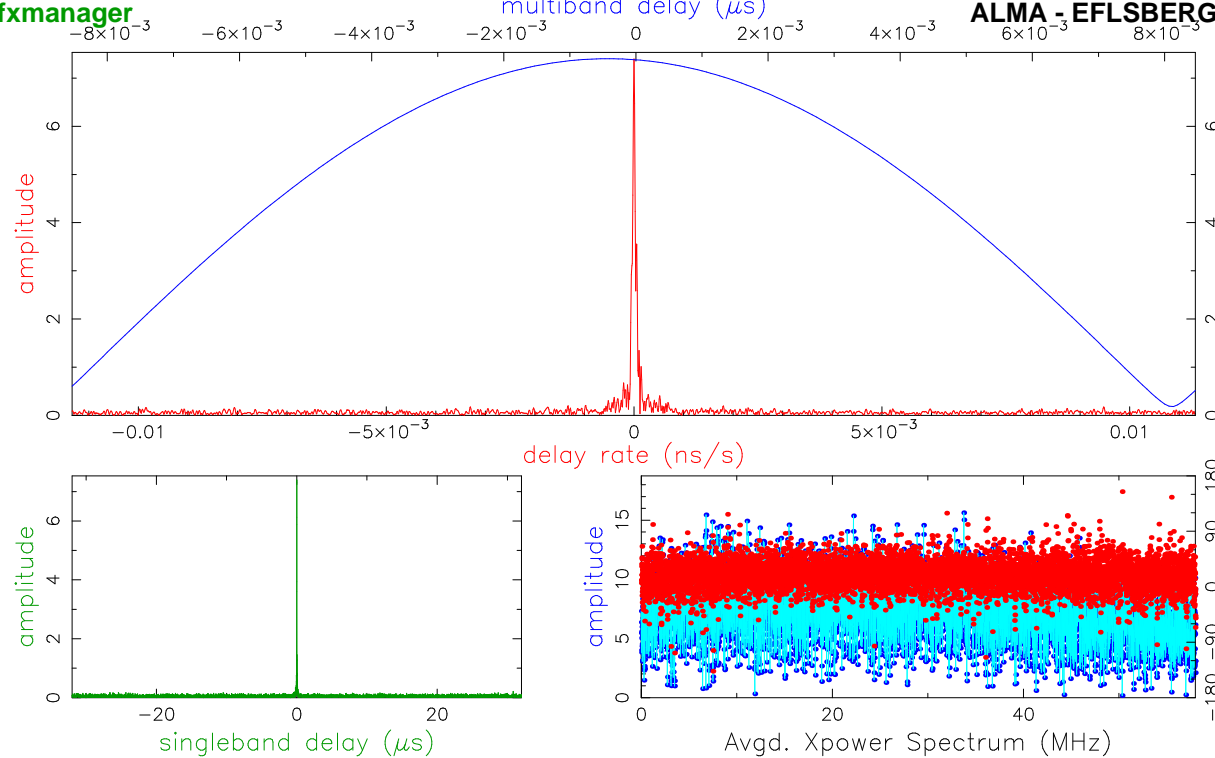
Control file: cf_1234_gmva Input file: /Exps/c211d/v1/1234/No0001/AB..1RFT2J Output file: /Exps/c211d/v1/1234/No0001/AB.W.3.1RFT2J

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fxmanager

1055+018.1RFT2J, No0001, AB

ALMA - EFLSBERG, fgroup W, pol YR

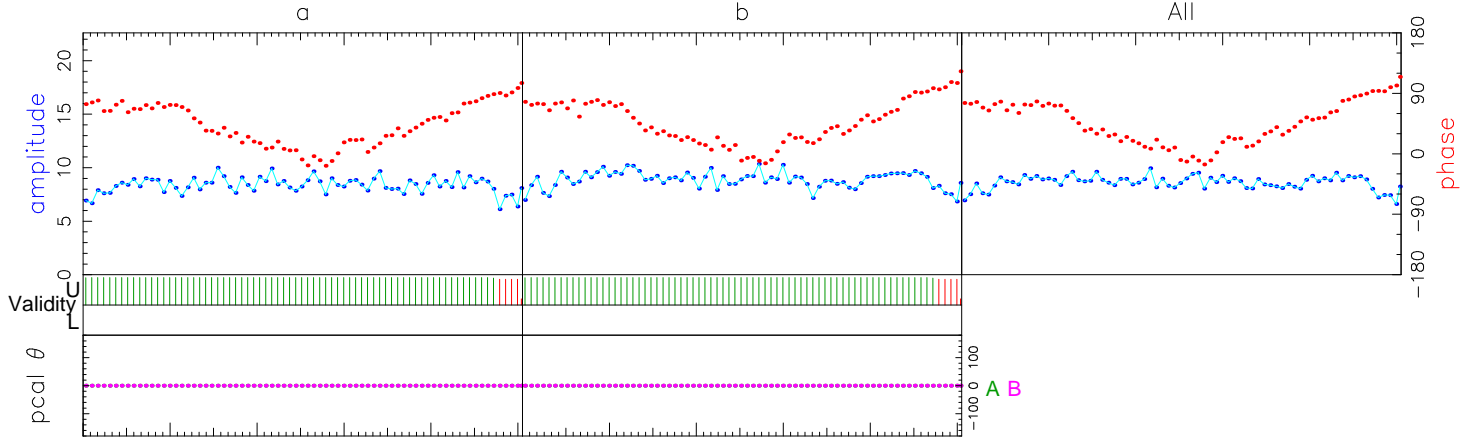


Fringe quality 7

SNR 169.5
 Int time 298.780
 Amp 7.534
 Phase 44.5
 PFD 0.0e+00
 Delays (us)
 SBD 0.001872
 MBD -0.000609
 Fringe rate (Hz) 0.000203
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.512

Exp. c211d
 Exper # 16383
 Yr:day 2021:116
 Start 220000.00
 Stop 220500.03
 FRT 220230.00
 Corr/FF/build
 2021:194:213344
 2021:194:215444
 2021:057:122453
 RA & Dec (J2000)
 10h58m29.605207s
 +01°33'58.823723"

Amp. and Phase vs. time for each freq., 74 segs, 8 APs / seg (4.10 sec / seg.), time ticks 5 sec



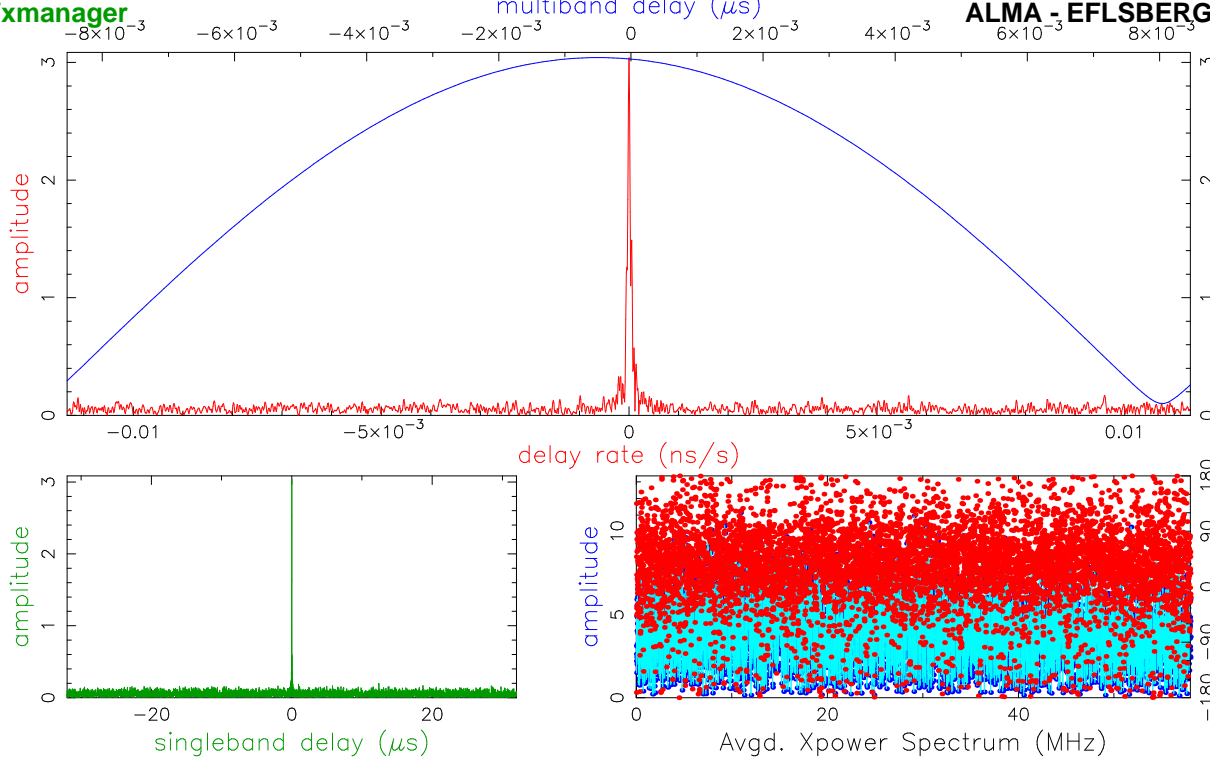
86209.70		86268.30		Freq (MHz)		All
42.5		46.4		Phase		44.5
7.2		7.6		Ampl.		7.4
7425.6		7425.3		Sbd box		7425.4
U/L 586/0		586/0		APs used		
A 0		0		PC freqs		
B 296		1000		PC freqs		
A:B 0:0		0:0		PC phase		
A:B 0:0		0:0		Manl PC		
A 1000		1000		PC amp		
B 1000		1000				
A W00UY		W01UY		Chan ids		
B W02UR		W03UR		Tracks		
				Chan ids		
				Tracks		
Group delay (usec)(sbd)		-1.31294180202E+03		Apriori delay (usec)		-1.31294119322E+03
Sband delay (usec)		-1.31293932122E+03		Apriori clock (usec)		-2.0855212E+03
Phase delay (usec)		-1.31294119178E+03		Apriori clockrate (us/s)		-1.2300000E-06
Delay rate (us/s)		1.50340797081E+00		Apriori rate (us/s)		1.50340796846E+00
Total phase (deg)		-93.7		Apriori accel (us/s/s)		-7.42629426708E-06
				Resid mbdelay (usec)		-6.08802E-04 +/- 3.2E-05
				Resid sbdelay (usec)		1.87200E-03 +/- 5.6E-05
				Resid phdelay (usec)		1.43485E-06 +/- 2.2E-08
				Resid rate (us/s)		2.35312E-09 +/- 1.3E-10
				Resid phase (deg)		44.5 +/- 0.7
RMS		Theor.		Amplitude		7.534 +/- 0.044
ph/seg (deg)		31.5		Search (2048X8)		7.337
amp/seg (%)		16.7		Interp.		0.000
ph/frq (deg)		0.0		Inc. seg. avg.		8.615
amp/frq (%)		3.0		Inc. frq. avg.		7.402
Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us) -32.000 32.000
Bits/sample: 2x2		SampCntNorm: enabled		Sample rate(MISamp/s): 116		mb window (us) -0.009 0.009
Data rate(Mb/s): 464		nlags: 7424 t_cohere infinite		ion window (TEC)		-0.011 0.011
A: az 68.7 el 37.7 pa -121.0		B: az 214.2 el 35.8 pa 20.6		u,v (fr/asec) -8613.584 -10298.090		simultaneous interpolator
Control file: cf_1234_gmva		Input file: /Exps/c211d/v1/1234/No0001/AB..1RFT2J		Output file: /Exps/c211d/v1/1234/No0001/AB.W.6.1RFT2J		

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

1055+018.1RFT2J, No0001, AB

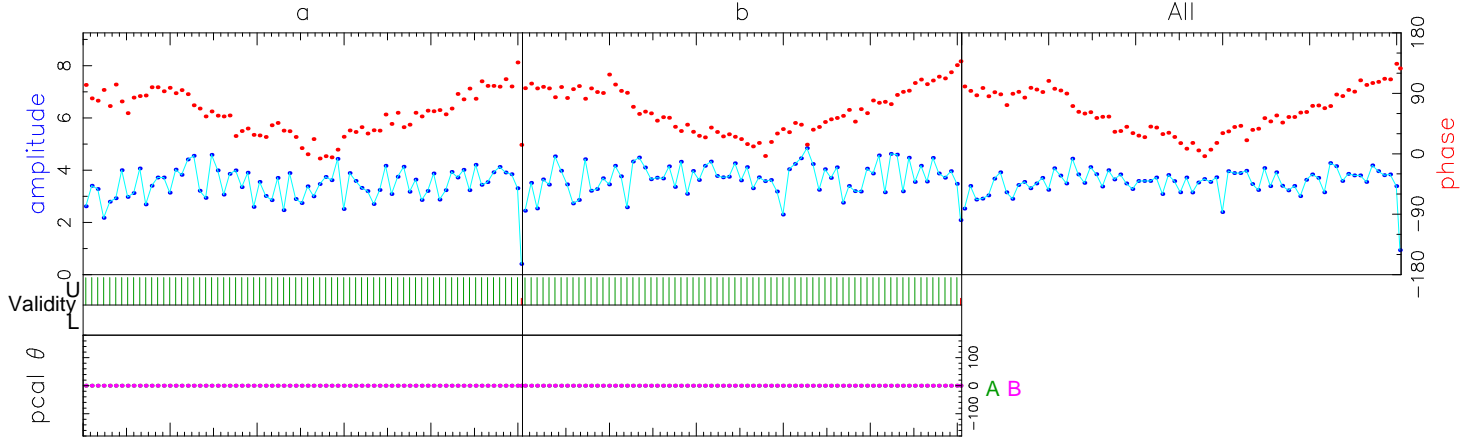
ALMA - EFLSBERG, fgroup W, pol XR



Fringe quality 8

SNR 69.6
 Int time 299.970
 Amp 3.085
 Phase 63.2
 PFD 0.0e+00
 Delays (us)
 SBD 0.001681
 MBD -0.000662
 Fringe rate (Hz)
 0.000211
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c211d
 Exper # 16383
 Yr:day 2021:116
 Start 220000.00
 Stop 220500.03
 FRT 220230.00
 Corr/FF/build
 2021:194:213344
 2021:194:215501
 2021:057:122453
 RA & Dec (J2000)
 10h58m29.605207s
 +01°33'58.823723"

Amp. and Phase vs. time for each freq., 74 segs, 8 APs / seg (4.10 sec / seg.), time ticks 5 sec



86209.70	86268.30	Freq (MHz)	All				
61.4	64.9	Phase	63.2				
2.9	3.1	Ampl.	3.0				
7425.6	7425.2	Sbd box	7425.4				
U/L 586/0	586/0	APs used					
A 0	0	PC freqs					
B 296	1000	PC freqs					
A:B 0:0	0:0	PC phase					
A:B 0:0	0:0	Manl PC					
A 1000	1000	PC amp					
B 1000	1000						
A W00UX	W01UX	Chan ids					
B W02UR	W03UR	Tracks					
		Chan ids					
		Tracks					
Group delay (usec)(sbd)	-1.31294185527E+03	Apriori delay (usec)	-1.31294119322E+03	Resid mbdelay (usec)	-6.62050E-04	+/-	7.8E-05
Sband delay (usec)	-1.31293951267E+03	Apriori clock (usec)	-2.0855212E+03	Resid sbdelay (usec)	1.68055E-03	+/-	1.4E-04
Phase delay (usec)	-1.31294119118E+03	Apriori clockrate (us/s)	-1.2300000E-06	Resid phdelay (usec)	2.03822E-06	+/-	5.3E-08
Delay rate (us/s)	1.50340797091E+00	Apriori rate (us/s)	1.50340796846E+00	Resid rate (us/s)	2.44878E-09	+/-	3.1E-10
Total phase (deg)	-75.0	Apriori accel (us/s/s)	-7.42629426708E-06	Resid phase (deg)	63.2	+/-	1.6

ph/seg (deg)	32.2	Theor.	7.1	Amplitude	3.085 +/- 0.044	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	20.6	Search (2048X8)	3.009	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -32.000 32.000
ph/frq (deg)	0.0	Inc. seg. avg.	3.542	Inc. frq. avg.	3.040	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	3.5	Inc. frq. avg.	3.040			Sample rate(MISamp/s): 116	dr window (ns/s) -0.011 0.011
						Data rate(Mb/s): 464	ion window (TEC) 0.00 0.00
						nlags: 7424 t_cohere infinite	

A: az 68.7 el 37.7 pa -121.0 B: az 214.2 el 35.8 pa 20.6 u,v (fr/asec) -8613.584 -10298.090 simultaneous interpolator

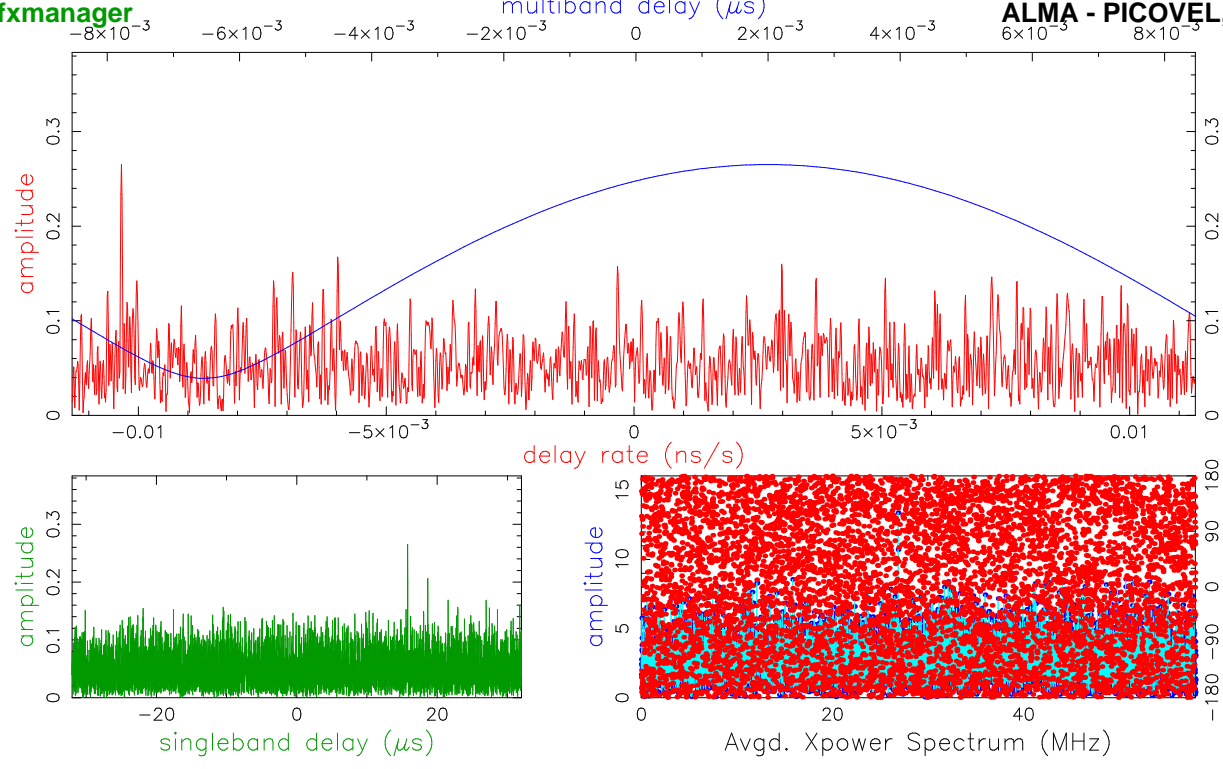
Control file: cf_1234_gmva Input file: /Exps/c211d/v1/1234/No0001/AB..1RFT2J Output file: /Exps/c211d/v1/1234/No0001/AB.W.8.1RFT2J

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

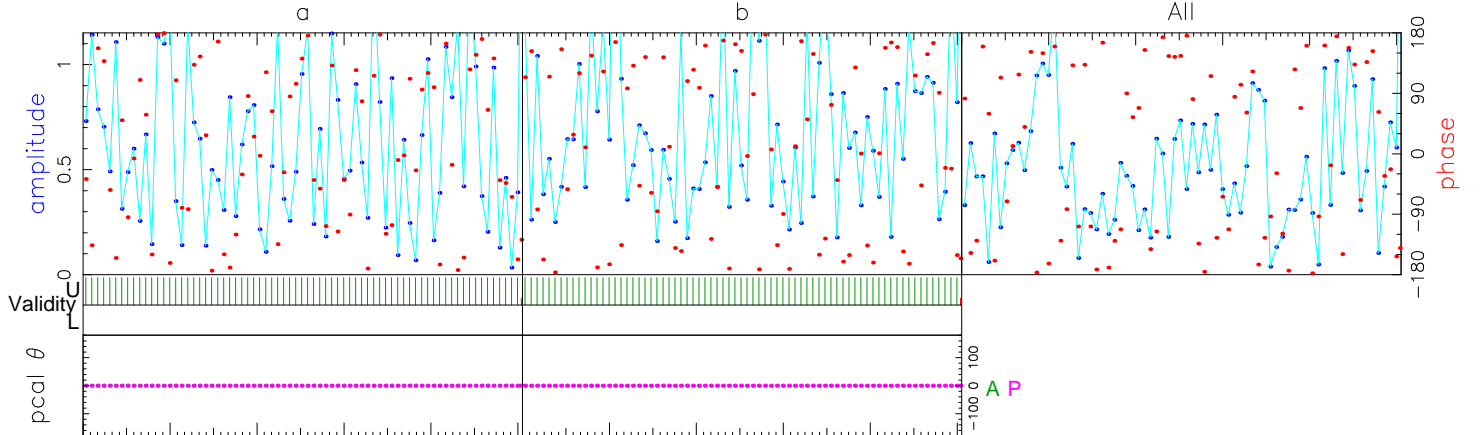
1055+018.1RFT2J, No0001, AP

ALMA - PICOVEL, fgroup W, pol XL



Fringe quality 0
 SNR 6.0
 Int time 299.977
 Amp 0.384
 Phase -326.2
 PFD 9.8e-01
 Delays (us)
 SBD 15.793672
 MBD 0.001897
 Fringe rate (Hz)
 -0.889801
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c211d
 Exper # 16383
 Yr:day 2021:116
 Start 220000.00
 Stop 220500.03
 FRT 220230.00
 Corr/FF/build
 2021:194:213344
 2021:194:215425
 2021:057:122453
 RA & Dec (J2000)
 10h58m29.605207s
 +01°33'58.823723"

Amp. and Phase vs. time for each freq., 74 segs, 8 APs / seg (4.10 sec / seg.), time ticks 5 sec



86209.70	86268.30	Freq (MHz)	All
169.4	171.5	Phase	170.6
0.3	0.4	Ampl.	0.4
12746.6	11089.0	Sbd box	11089.1
U/L 586/0	586/0	APs used	
A 0	0	PC freqs	
P 1000	1000	PC freqs	
A:P 0:0	0:0	PC phase	
A:P 0:0	0:0	Manl PC	
A 1000	1000	PC amp	
P 1000	1000		
A W00UX	W01UX	Chan ids	
		Tracks	
P W02UL	W03UL	Chan ids	
		Tracks	

Group delay (usec)(sbd)	-5.45088067683E+03	Apriori delay (usec)	-5.46666924092E+03	Resid mbdelay (usec)	1.89742E-03	+/-	9.1E-04
Sband delay (usec)	-5.45087556975E+03	Apriori clock (usec)	-2.1065149E-03	Resid sbdelay (usec)	1.57937E+01	+/-	1.6E-03
Phase delay (usec)	-5.46666923542E+03	Apriori clockrate (us/s)	-6.3000007E-07	Resid phdelay (usec)	5.50223E-06	+/-	6.2E-07
Delay rate (us/s)	1.41547381358E+00	Apriori rate (us/s)	1.41548414328E+00	Resid rate (us/s)	-1.03297E-05	+/-	3.6E-09
Total phase (deg)	-114.7	Apriori accel (us/s/s)	1.50328525793E-05	Resid phase (deg)	-326.2	+/-	19.1

ph/seg (deg)	RMS 75.8	Theor. 82.3	Amplitude Search (2048X8)	0.384 +/- 0.064	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-32.000	32.000
amp/seg (%)	141.4	143.7	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.009	0.009
ph/frq (deg)	0.0	13.5	Inc. seg. avg.	0.363	Bits/sample: 2x2	Sample rate(MISamp/s): 116	dr window (ns/s)	-0.011	0.011
amp/frq (%)	14.7	23.6	Inc. frq. avg.	0.373	Data rate(Mb/s): 464	nlags: 7424 t_cohere infinite	ion window (TEC)	0.00	0.00

A: az 68.7 el 37.7 pa -121.0 P: az 207.5 el 51.2 pa 22.2 u,v (fr/asec) -8091.512 -8755.422 simultaneous interpolator

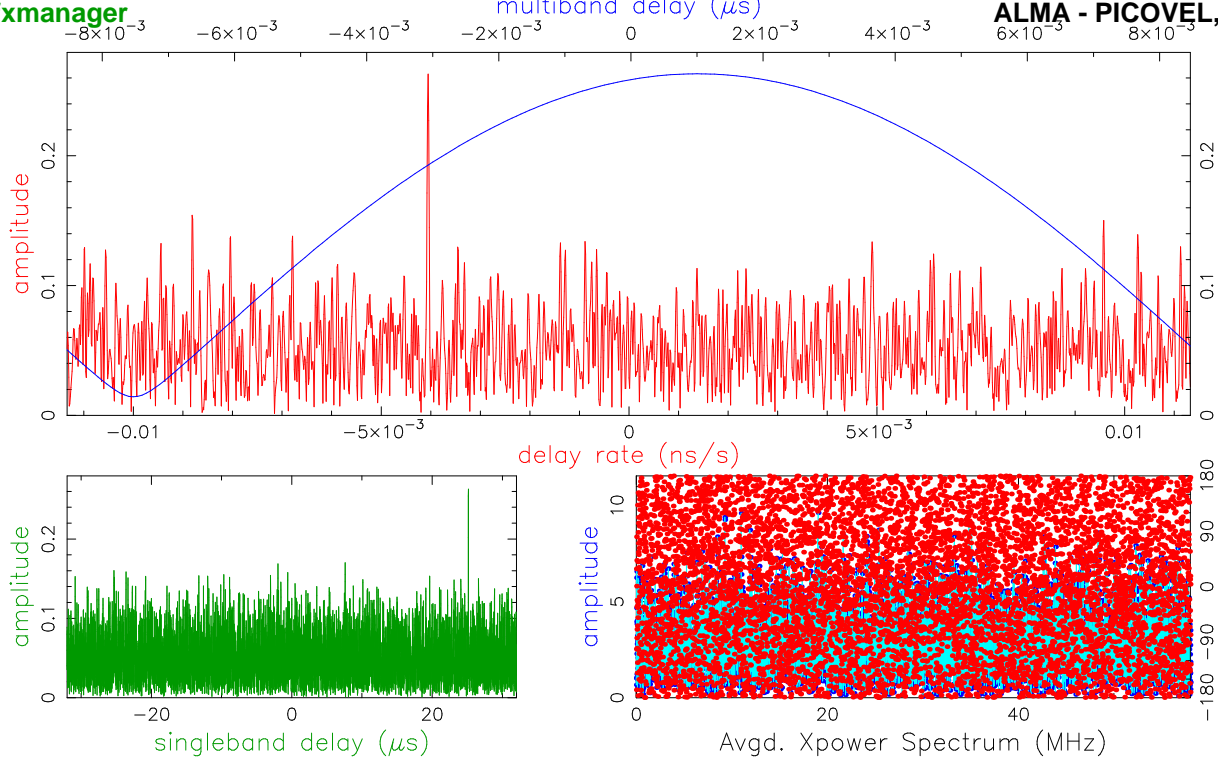
Control file: cf_1234_gmva Input file: /Exps/c211d/v1/1234/No0001/AP..1RFT2J Output file: /Exps/c211d/v1/1234/No0001/AP.W.2.1RFT2J

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fxmanager

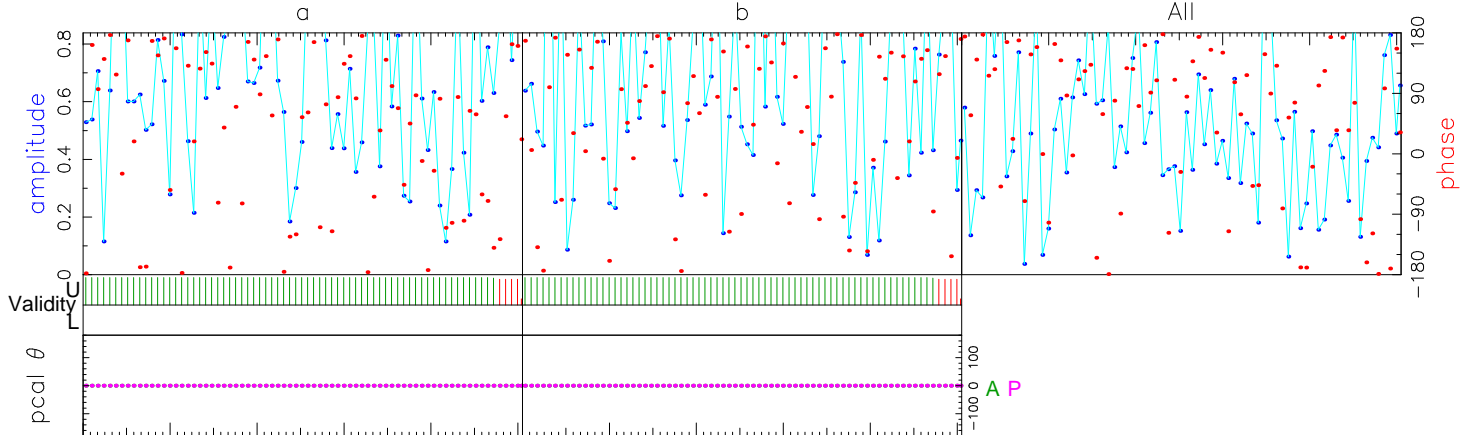
1055+018.1RFT2J, No0001, AP

ALMA - PICOVEL, fgroup W, pol YR



Fringe quality 0
 SNR 6.0
 Int time 298.787
 Amp 0.280
 Phase -38.9
 PFD 9.9e-01
 Delays (us)
 SBD 25.153812
 MBD 0.001259
 Fringe rate (Hz)
 -0.349239
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c211d
 Exper # 16383
 Yr:day 2021:116
 Start 220000.00
 Stop 220500.03
 FRT 220230.00
 Corr/FF/build
 2021:194:213344
 2021:194:215443
 2021:057:122453
 RA & Dec (J2000)
 10h58m29.605207s
 +01°33'58.823723"

Amp. and Phase vs. time for each freq., 74 segs, 8 APs / seg (4.10 sec / seg.), time ticks 5 sec



86209.70	86268.30	Freq (MHz)	All				
133.2	127.9	Phase	130.4				
0.3	0.3	Ampl.	0.3				
8833.9	13260.7	Sbd box	13260.7				
U/L 586/0	586/0	APs used					
A 0	0	PC freqs					
P 1000	1000	PC freqs					
A:P 0:0	0:0	PC phase					
A:P 0:0	0:0	Manl PC					
A 1000	1000	PC amp					
P 1000	1000						
A W00UY	W01UY	Chan ids					
P W02UR	W03UR	Tracks					
		Chan ids					
		Tracks					
Group delay (usec)(sbd)	-5.44151171502E+03	Apriori delay (usec)	-5.46666924092E+03	Resid mbdelay (usec)	1.25923E-03	+/-	9.1E-04
Sband delay (usec)	-5.44151542795E+03	Apriori clock (usec)	-2.1065149E+03	Resid sbdelay (usec)	2.51538E+01	+/-	1.6E-03
Phase delay (usec)	-5.46666923671E+03	Apriori clockrate (us/s)	-6.3000007E-07	Resid phdelay (usec)	4.20544E-06	+/-	6.2E-07
Delay rate (us/s)	1.41548008897E+00	Apriori rate (us/s)	1.41548414328E+00	Resid rate (us/s)	-4.05432E-06	+/-	3.6E-09
Total phase (deg)	-187.5	Apriori accel (us/s/s)	1.50328525793E-05	Resid phase (deg)	-38.9	+/-	19.2

ph/seg (deg)	RMS 78.4	Theor. 82.6	Amplitude Search (2048X8)	0.280 +/- 0.047	0.258	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	137.4	144.2	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -32.000 32.000
ph/frq (deg)	0.0	13.6	Inc. seg. avg.	0.265	Bits/sample: 2x2	Sample rate(MISamp/s): 116	mb window (us) -0.009 0.009
amp/frq (%)	5.4	23.7	Inc. frq. avg.	0.270	Data rate(Mb/s): 464	nlags: 7424 t_cohere infinite	dr window (ns/s) -0.011 0.011
							ion window (TEC) 0.00 0.00

A: az 68.7 el 37.7 pa -121.0 P: az 207.5 el 51.2 pa 22.2 u,v (fr/asec) -8091.512 -8755.422 simultaneous interpolator

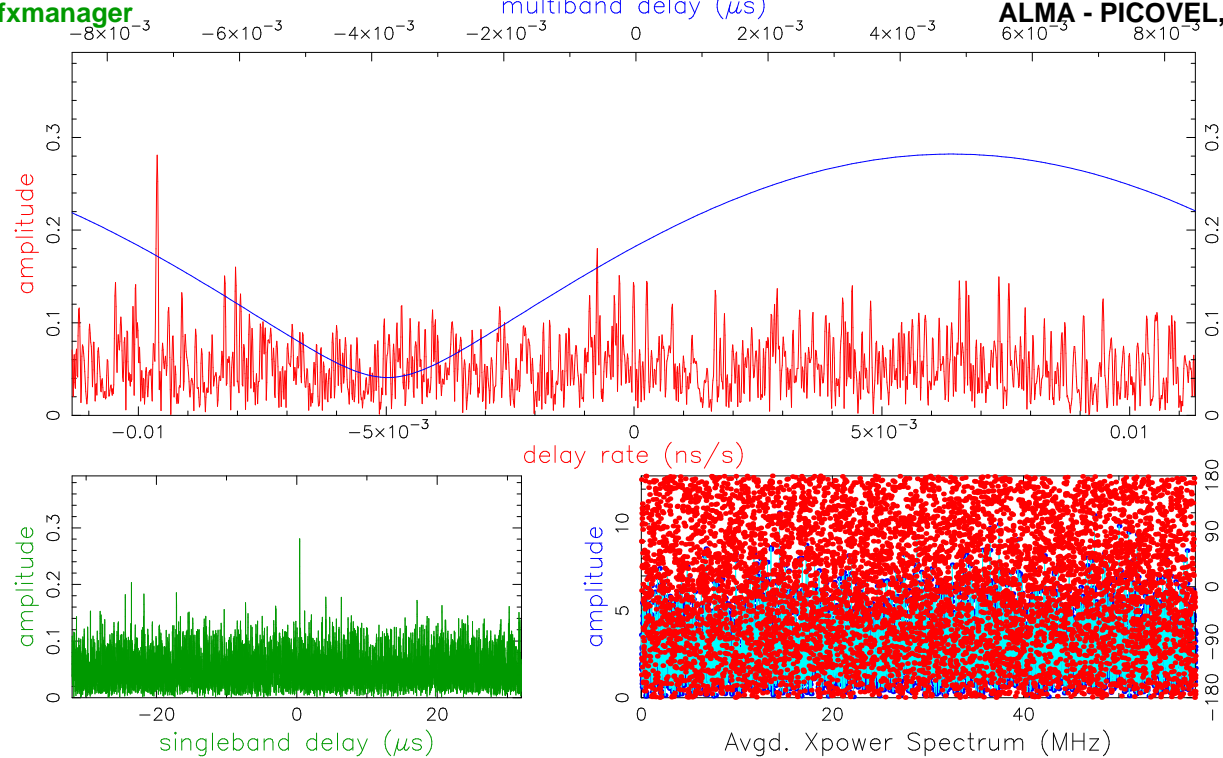
Control file: cf_1234_gmva Input file: /Exps/c211d/v1/1234/No0001/AP..1RFT2J Output file: /Exps/c211d/v1/1234/No0001/AP.W.5.1RFT2J

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

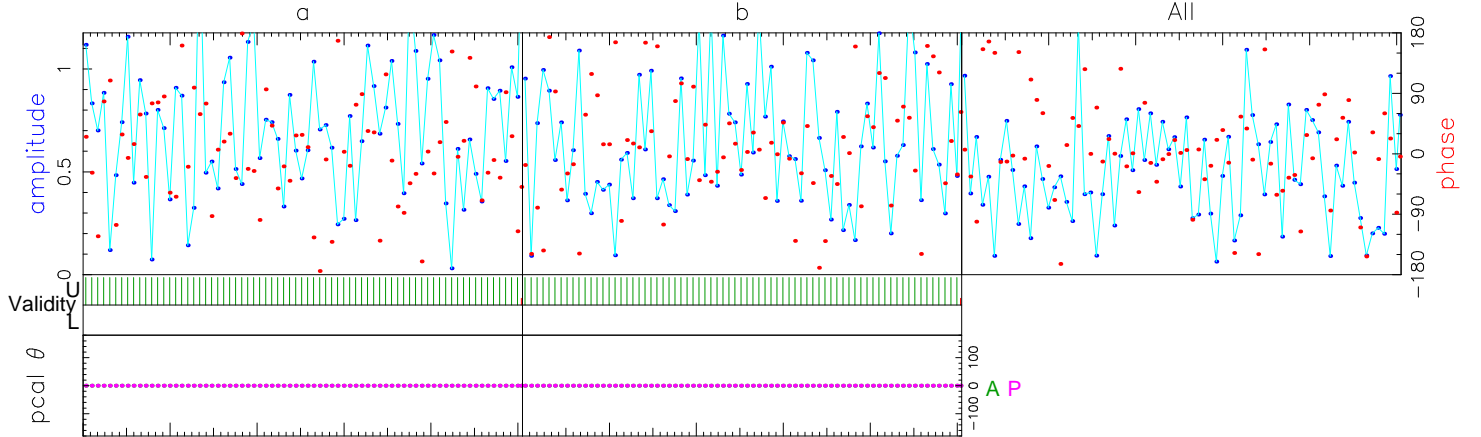
1055+018.1RFT2J, No0001, AP

ALMA - PICOVEL, fgroup W, pol XR



Fringe quality 0
 SNR 6.4
 Int time 299.977
 Amp 0.392
 Phase -194.1
 PFD 2.1e-01
 Delays (us)
 SBD 0.419909
 MBD 0.004276
 Fringe rate (Hz)
 -0.828092
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512
 Exp. c211d
 Exper # 16383
 Yr:day 2021:116
 Start 220000.00
 Stop 220500.03
 FRT 220230.00
 Corr/FF/build
 2021:194:213344
 2021:194:215500
 2021:057:122453
 RA & Dec (J2000)
 10h58m29.605207s
 +01°33'58.823723"

Amp. and Phase vs. time for each freq., 74 segs, 8 APs / seg (4.10 sec / seg.), time ticks 5 sec



86209.70	86268.30	Freq (MHz)	All
-0.4	10.1	Phase	4.1
0.4	0.3	Ampl.	0.4
7522.4	6213.4	Sbd box	7522.4
U/L 586/0	586/0	APs used	
A 0	0	PC freqs	
P 1000	1000	PC freqs	
A:P 0:0	0:0	PC phase	
A:P 0:0	0:0	Manl PC	
A 1000	1000	PC amp	
P 1000	1000		
A W00UX	W01UX	Chan ids	
P W02UR	W03UR	Tracks	
		Chan ids	
		Tracks	

Group delay (usec)(sbd)	-5.46625536492E+03	Apriori delay (usec)	-5.46666924092E+03	Resid mbdelay (usec)	4.27600E-03	+/-	8.4E-04
Sband delay (usec)	-5.46624933195E+03	Apriori clock (usec)	-2.1065149E+03	Resid sbdelay (usec)	4.19909E-01	+/-	1.5E-03
Phase delay (usec)	-5.46666924079E+03	Apriori clockrate (us/s)	-6.3000007E-07	Resid phdelay (usec)	1.31151E-07	+/-	5.7E-07
Delay rate (us/s)	1.41547452996E+00	Apriori rate (us/s)	1.41548414328E+00	Resid rate (us/s)	-9.61332E-06	+/-	3.3E-09
Total phase (deg)	-342.6	Apriori accel (us/s/s)	1.50328525793E-05	Resid phase (deg)	-194.1	+/-	17.8

ph/seg (deg)	74.2	Theor.	76.5	Amplitude	0.392 +/- 0.061	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	114.3	Search (2048X8)	0.278	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -32.000 32.000
ph/frq (deg)	0.0	Inc. seg. avg.	0.362	Inc. frq. avg.	0.378	Bits/sample: 2x2	SampCntNorm: enabled
amp/frq (%)	14.3	Inc. frq. avg.	0.378			Sample rate(MISamp/s): 116	mb window (us) -0.009 0.009
						Data rate(Mb/s): 464	dr window (ns/s) -0.011 0.011
						nlags: 7424 t_cohere infinite	ion window (TEC) 0.00 0.00

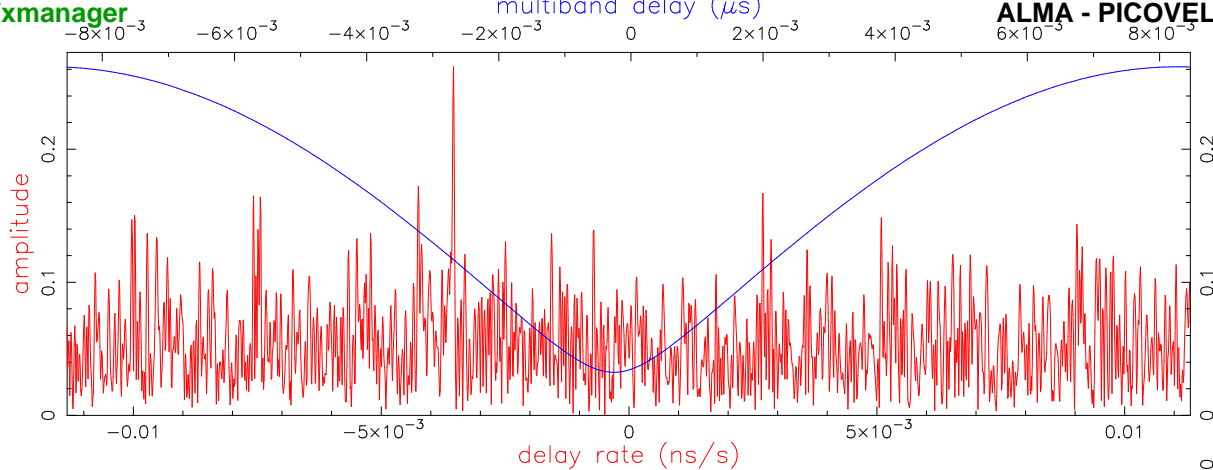
A: az 68.7 el 37.7 pa -121.0 P: az 207.5 el 51.2 pa 22.2 u,v (fr/asec) -8091.512 -8755.422 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c211d/v1/1234/No0001/AP..1RFT2J Output file: /Exps/c211d/v1/1234/No0001/AP.W.7.1RFT2J

Mk4/DiFX fourfit 3.21 rev 2937

fxmanager

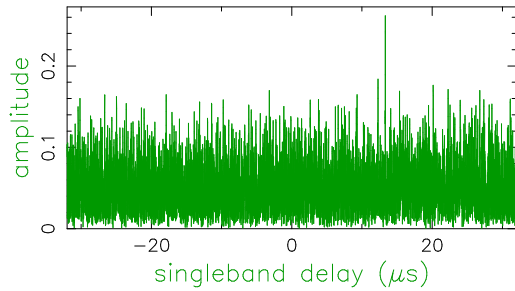
1055+018.1RFT2J, No0001, AP

ALMA - PICOVEL, fgroup W, pol YL

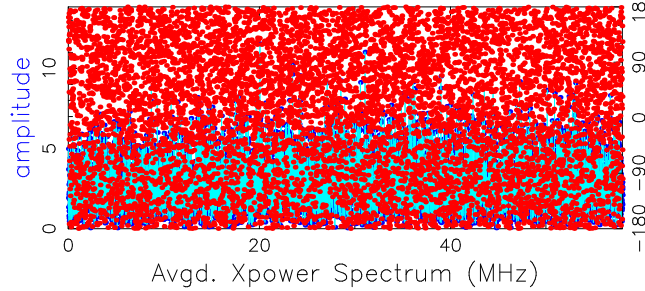


Fringe quality 0

SNR 5.9
 Int time 298.787
 Amp 0.273
 Phase -66.9
 PFD 1.0e+00
 Delays (us)
 SBD 13.323165
 MBD -0.008786
 Fringe rate (Hz)
 -0.305039
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.512

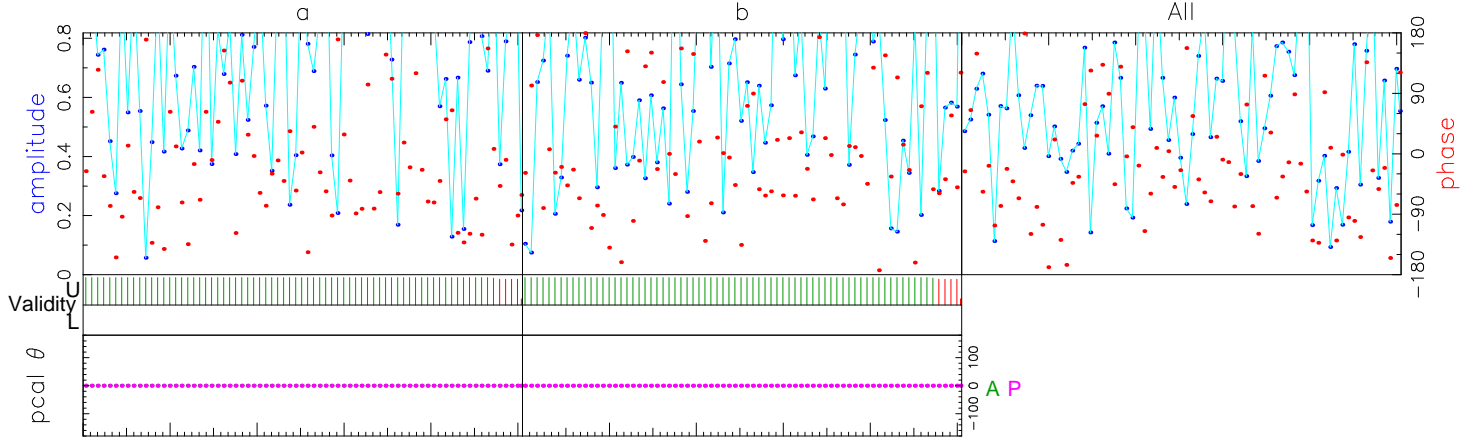


delay rate (ns/s)



Exp. c211d
 Exper # 16383
 Yr:day 2021:116
 Start 220000.00
 Stop 220500.03
 FRT 220230.00
 Corr/FF/build
 2021:194:213344
 2021:194:215518
 2021:057:122453
 RA & Dec (J2000)
 10h58m29.605207s
 +01°33'58.823723"

Amp. and Phase vs. time for each freq., 74 segs, 8 APs / seg (4.10 sec / seg.), time ticks 5 sec



86209.70		86268.30		Freq (MHz)	All
-38.9		-39.0		Phase	-38.9
0.3		0.2		Ampl.	0.3
10516.5		6684.0		Sbd box	10516.0
U/L 586/0		586/0		APs used	
A 0		0		PC freqs	
P 1000		1000		PC freqs	
A:P 0:0		0:0		PC phase	
A:P 0:0		0:0		Manl PC	
A 1000		1000		PC amp	
P 1000		1000			
A W00UY		W01UY		Chan ids	
P W02UL		W03UL		Tracks	
				Chan ids	
				Tracks	
Group delay (usec)(sbd)	-5.45334896017E+03	Apriori delay (usec)	-5.46666924092E+03	Resid mbdelay (usec)	-8.78592E-03 +/- 9.2E-04
Sband delay (usec)	-5.45334607568E+03	Apriori clock (usec)	-2.1065149E+03	Resid sbdelay (usec)	1.33232E+01 +/- 1.6E-03
Phase delay (usec)	-5.46666924217E+03	Apriori clockrate (us/s)	-6.3000007E-07	Resid phdelay (usec)	-1.25595E-06 +/- 6.3E-07
Delay rate (us/s)	1.41548060208E+00	Apriori rate (us/s)	1.41548414328E+00	Resid rate (us/s)	-3.54120E-06 +/- 3.6E-09
Total phase (deg)	-215.4	Apriori accel (us/s/s)	1.50328525793E-05	Resid phase (deg)	-66.9 +/- 19.4

ph/seg (deg)	RMS 81.6	Theor. 83.6	Amplitude Search (2048X8)	0.273 +/- 0.046	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-32.000	32.000
amp/seg (%)	152.3	146.0	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)		mb window (us)	-0.009	0.009
ph/frq (deg)	0.0	13.7	Inc. seg. avg.	0.286	Bits/sample: 2x2	SampCntNorm: enabled	dr window (ns/s)	-0.011	0.011
amp/frq (%)	12.3	24.0	Inc. frq. avg.	0.265	Sample rate(MISamp/s): 116		ion window (TEC)	0.00	0.00
					Data rate(Mb/s): 464	nlags: 7424 t_cohere infinite			

A: az 68.7 el 37.7 pa -121.0 P: az 207.5 el 51.2 pa 22.2 u,v (fr/asec) -8091.512 -8755.422 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c211d/v1/1234/No0001/AP..1RFT2J Output file: /Exps/c211d/v1/1234/No0001/AP.W.9.1RFT2J