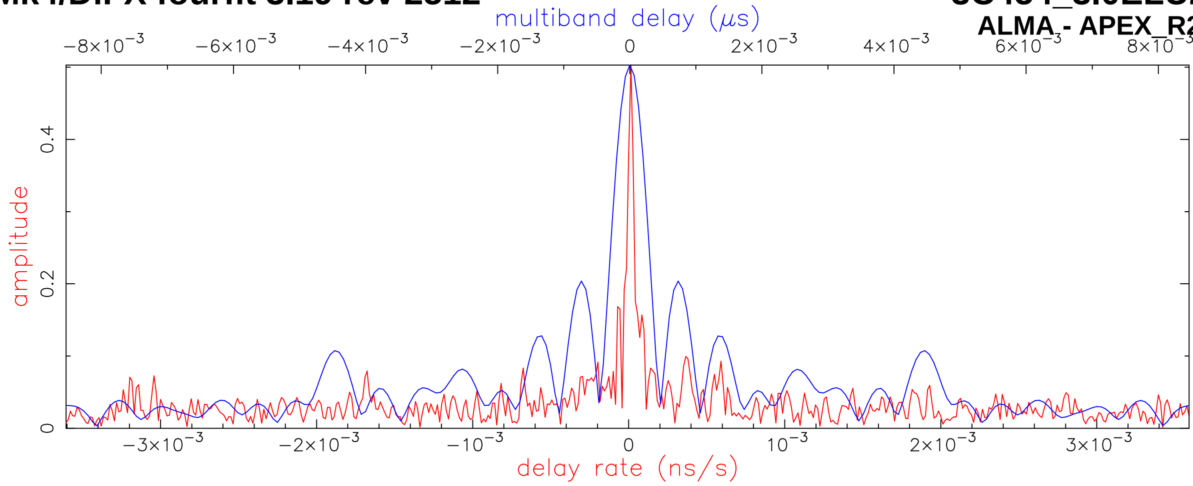
Mk4/DiFX fourfit 3.19 rev 2512

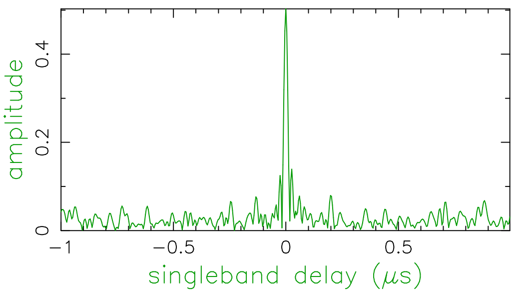
3C454_3.0ELUZV, No0003, AR

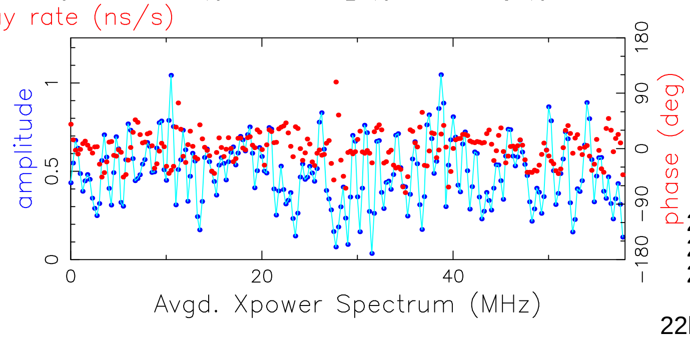
ALMA - APEX_R2D, fgroup B, pol XL



Fringe quality 8

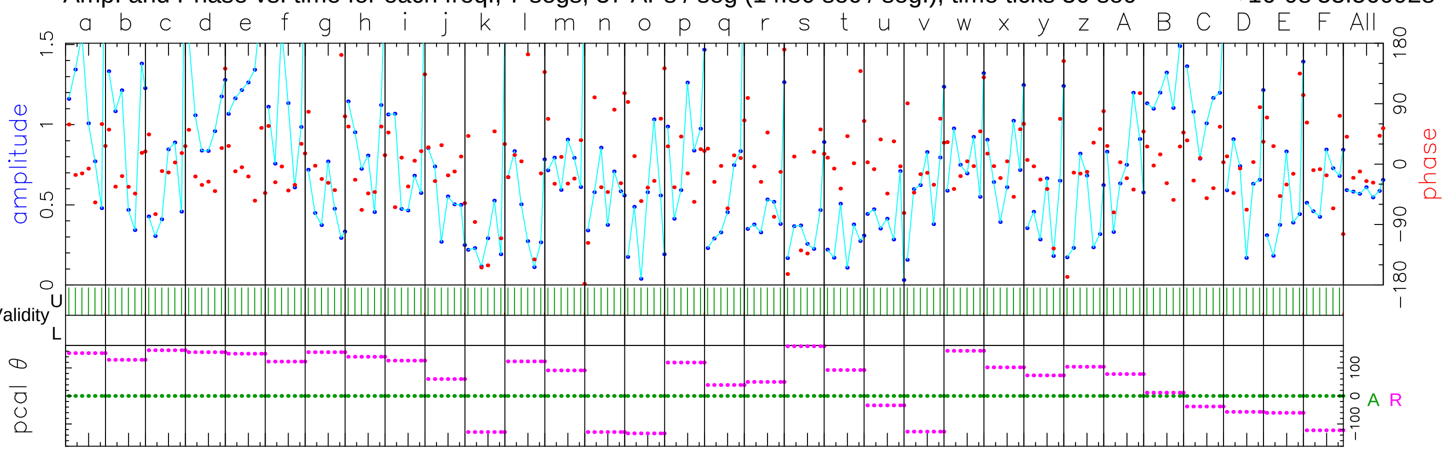
SNR 24.8
Int time 89.949
Amp 0.503
Phase -0.0
PFD 0.0e+00
Delays (us)
SBD 0.000001
MBD 0.000001
Fringe rate (Hz)
0.005352
Ion TEC 0.000
Ref freq (MHz)
346662.7969
AP (sec) 0.400





Exp. e18p19
Exper # 16383
Yr:day 2018:292
Start 000700.00
Stop 000830.00
FRT 000930.00
Corr/FF/build
2018:341:143340
2018:341:145445
2018:323:100553
RA & Dec (J2000)
22h53m57.747936s
+16°08'53.560928"

Amp. and Phase vs. time for each freq., 7 segs, 37 APs / seg (14.80 sec / seg.), time ticks 30 sec



	346662.80	346721.39	346779.98	346838.58	346897.17	346955.77	347014.36	347072.95	347131.55	347190.14	347248.73	347307.33	347365.92	347424.52	347483.11	347541.70
	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
	0.9	0.8	0.5	0.9	1.1	0.9	0.3	0.6	0.5	0.5	0.0	0.3	0.6	0.2	0.3	0.7
	233.0	232.8	232.3	232.6	233.0	232.6	389.0	232.9	233.1	232.6	6.8	339.9	233.6	217.5	401.1	232.8
U/L	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0
A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A:R	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
A:R	0:153	0:129	0:163	0:156	0:151	0:122	0:156	0:140	0:126	0:60	0:-129	0:123	0:91	0:-129	0:-134	0:119
A	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
R	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
A	B00UX	B01UX	B02UX	B03UX	B04UX	B05UX	B06UX	B07UX	B08UX	B09UX	B10UX	B11UX	B12UX	B13UX	B14UX	B15UX
R	B00UL	B01UL	B02UL	B03UL	B04UL	B05UL	B06UL	B07UL	B08UL	B09UL	B10UL	B11UL	B12UL	B13UL	B14UL	B15UL

347600.30	347658.89	347717.48	347776.08	347834.67	347893.27	347951.86	348010.45	348069.05	348127.64	348186.23	348244.83	348303.42	348362.02	348420.61	348479.20	Freq (MHz)	All
-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	Phase	-0.0
0.4	0.2	0.1	0.2	0.4	0.4	0.6	0.6	0.3	0.3	0.5	1.1	0.9	0.5	0.2	0.4	Ampl.	0.5
234.3	394.0	391.7	415.2	234.1	233.8	232.8	233.6	437.9	254.8	233.6	233.0	233.5	232.6	61.9	232.8	Sbd box	233.0
225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	225/0	APs used	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PC freqs	
0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
0:39	0:50	0:178	0:93	0:-33	0:-127	0:161	0:102	0:73	0:104	0:78	0:12	0:-38	0:-57	0:-61	0:-123	Manl PC	
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
B16UX	B17UX	B18UX	B19UX	B20UX	B21UX	B22UX	B23UX	B24UX	B25UX	B26UX	B27UX	B28UX	B29UX	B30UX	B31UX	Chan ids	
																Tracks	
B16UL	B17UL	B18UL	B19UL	B20UL	B21UL	B22UL	B23UL	B24UL	B25UL	B26UL	B27UL	B28UL	B29UL	B30UL	B31UL	Chan ids	
																Tracks	

Group delay (usec)(sbd)	-2.11203072793E+03	Apriori delay (usec)	-2.11203072932E+03	Resid mbdelay (usec)	1.38463E-06	+/-	1.2E-05
Sband delay (usec)	-2.11203072794E+03	Apriori clock (usec)	-2.1072454E+03	Resid sbdelay (usec)	1.37931E-06	+/-	3.8E-04
Phase delay (usec)	-2.11203072932E+03	Apriori clockrate (us/s)	5.9192842E-07	Resid phdelay (usec)	-1.50935E-10	+/-	3.7E-08
Delay rate (us/s)	-1.87250670743E-04	Apriori rate (us/s)	-1.87266109918E-04	Resid rate (us/s)	1.54392E-08	+/-	7.1E-10
Total phase (deg)	-256.3	Apriori accel (us/s/s)	1.37232087260E-08	Resid phase (deg)	-0.0	+/-	4.6

	RMS	Theor.		
			Amplitude	0.503 +/- 0.020
ph/seg (deg)	30.3	6.1	Search (512X128)	0.501
amp/seg (%)	16.3	10.7	Interp.	0.000
ph/frq (deg)	0.0	13.1	Inc. seg. avg.	0.579
amp/frq (%)	53.7	22.8	Inc. frq. avg.	0.490

Pcal mode: MANUAL, MANUAL   PC period (AP's) 5, 5
Pcal rate: 0.000E+00, 0.000E+00 (us/s)
Bits/sample: 2x2   SampCntNorm: disabled
Sample rate(MSamp/s): 116
Data rate(Mb/s): 7424   nlags: 232   t_cohere infinite

sb window (us)	-1.000	1.000
mb window (us)	-0.009	0.009
dr window (ns/s)	-0.004	0.004
ion window (TEC)	0.00	0.00

A: az 31.4 el 44.9 pa -150.0   R: az 31.4 el 45.0 pa -150.7   u,v (fr/asec) 4.563 -11.568   simultaneous interpolator

Control file: cf_1234_adhoc   Input file: /Exps/e18p19/v0/345G_Alma/1234/No0003/AR..0ELUZV   Output file: /Exps/e18p19/v0/345G_Alma/1234/No0003/AR.B.2.0ELUZV