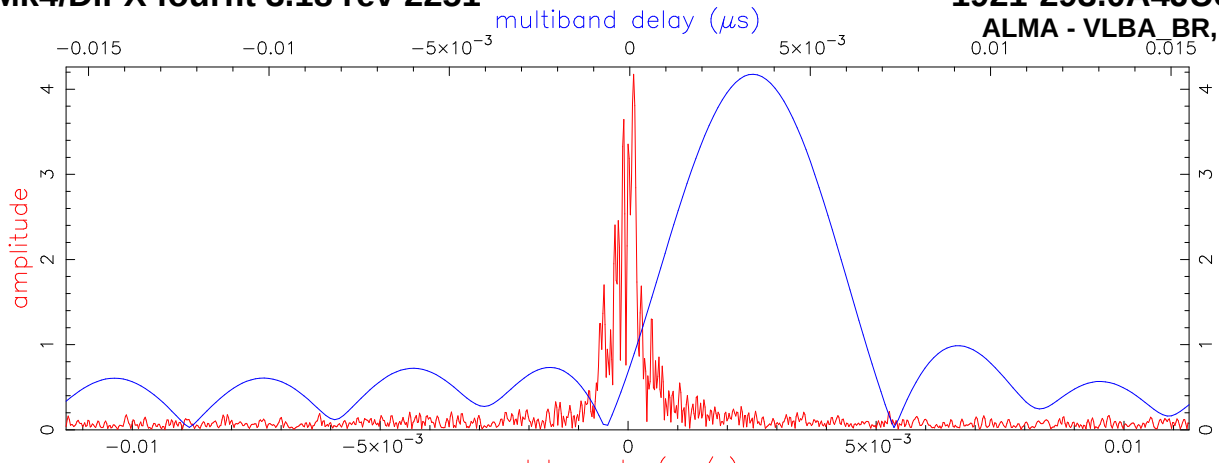
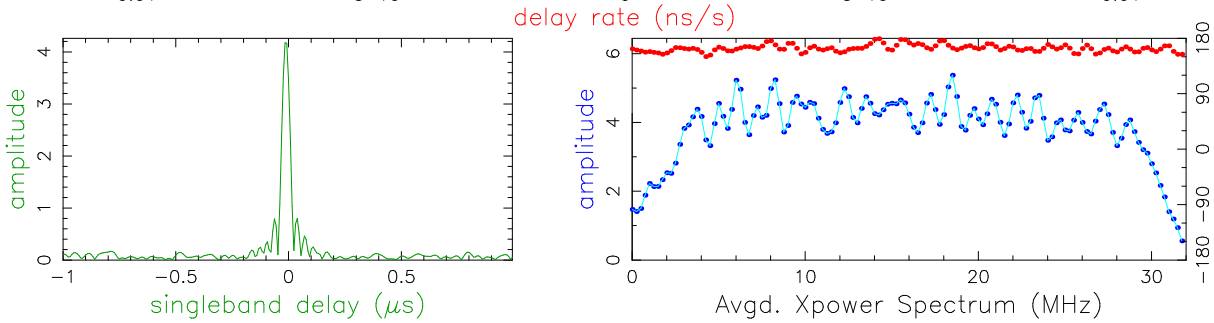
# Mk4/DiFX fourfit 3.18 rev 2251

# 1921-293.0A4JUS, No0042, Ab

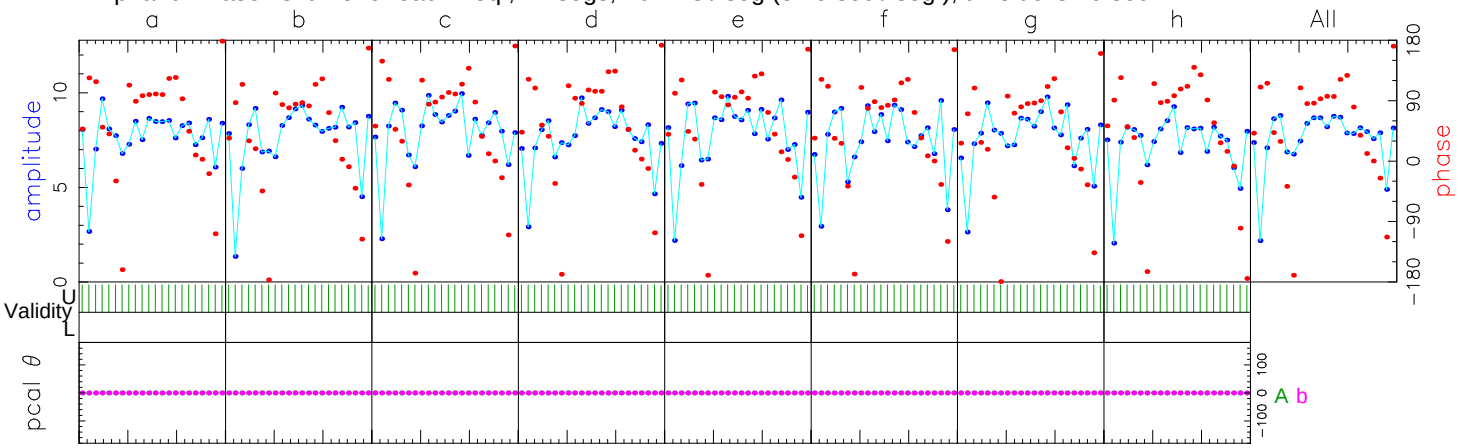
**ALMA - VLBA_BR, fgroup W, pol RR**




| | |
|---|---|
| Fringe quality | 5 |
| SNR | 110.5 |
| Int time | 179.919 |
| Amp | 4.261 |
| Phase | 76.1 |
| PFD | 0.0e+00 |
| Delays (us) | |
| SBD | -0.011836 |
| MBD | 0.003401 |
| Fringe rate (Hz) | 0.009067 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.512 |
| Exp. | c181f |
| Exper # | 16383 |
| Yr:day | 2018:107 |
| Start | 122000.00 |
| Stop | 122300.22 |
| FRT | 122130.00 |
| Corr/FF/build | 2018:253:103645 2018:254:151248 2018:249:082454 |
| 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




| | | | | | | | | | Freq (MHz) | All |
|---|---|---|---|---|---|---|---|---|---|---|
| | 86124.00 | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | | |
| | 80.6 | 65.5 | 79.3 | 83.0 | 76.7 | 70.8 | 67.6 | 84.6 | Phase | 76.1 |
| | 4.1 | 4.1 | 4.3 | 4.3 | 4.5 | 4.2 | 4.0 | 4.1 | Ampl. | 4.2 |
| | 127.5 | 127.6 | 127.3 | 127.8 | 126.8 | 127.7 | 127.3 | 128.0 | Sbd box | 127.5 |
| 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 | |
| b | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |
| | | | | | | | | | Tracks | |
| b | W00UR | W01UR | W02UR | W03UR | W04UR | W05UR | W06UR | W07UR | Chan ids | |
| | | | | | | | | | Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec)(sbd) | 1.25382548735E+04 | Apriori delay (usec) | 1.25382514720E+04 | Resid mbdelay (usec) | 3.40150E-03 | +/- | 2.0E-05 |
| Sband delay (usec) | 1.25382396360E+04 | Apriori clock (usec) | -2.0998179E+03 | Resid sbdelay (usec) | -1.18360E-02 | +/- | 1.6E-04 |
| Phase delay (usec) | 1.25382514745E+04 | Apriori clockrate (us/s) | -2.8700000E-07 | Resid phdelay (usec) | 2.45501E-06 | +/- | 3.3E-08 |
| Delay rate (us/s) | -9.68889759921E-01 | Apriori rate (us/s) | -9.68889865174E-01 | Resid rate (us/s) | 1.05253E-07 | +/- | 3.2E-10 |
| Total phase (deg) | 4.0 | Apriori accel (us/s/s) | -1.54540304342E-05 | Resid phase (deg) | 76.1 | +/- | 1.0 |

| | RMS | Theor. | Amplitude | 4.261 +/- 0.039 | Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5 | | | |
|---|---|---|---|---|---|---|---|---|
| ph/seg (deg) | 67.4 | 2.4 | Search (1024X32) | 4.059 | Pcal rate: 0.000E+00, 0.000E+00 (us/s) | sb window (us) | -1.000 | 1.000 |
| amp/seg (%) | 85.3 | 4.2 | Interp. | 0.000 | Bits/sample: 2x2 SampCntNorm: enabled | mb window (us) | -0.016 | 0.016 |
| ph/frq (deg) | 7.8 | 1.5 | Inc. seg. avg. | 7.579 | Sample rate(MSamp/s): 64 | dr window (ns/s) | -0.011 | 0.011 |
| amp/frq (%) | 3.9 | 2.6 | Inc. frq. avg. | 4.203 | Data rate(Mb/s): 1024 nlags: 128 t_cohere infinite | ion window (TEC) | 0.00 | 0.00 |

A: az 250.9 el 61.3 pa 84.9 b: az 161.8 el 10.5 pa -13.9 u,v (fr/asec) 6331.937 -8077.839 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c181f/v2_pc1/1234/No0042/Ab..0A4JUS Output file: /Exps/c181f/v2_pc1/1234/No0042/Ab.W.2.0A4JUS