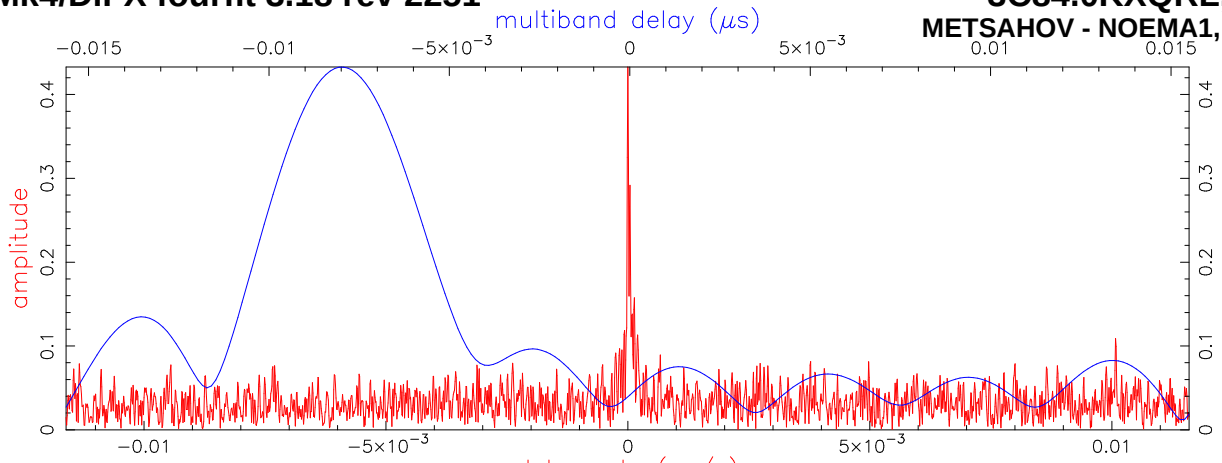
# Mk4/DiFX fourfit 3.18 rev 2251

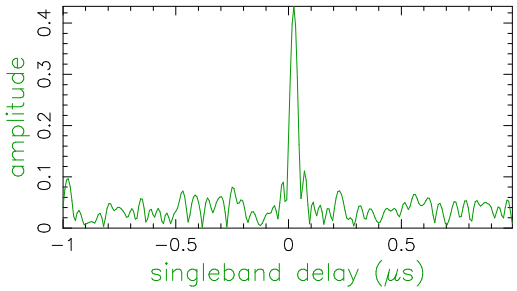
# 3C84.0KXQRL, No0002, ZN

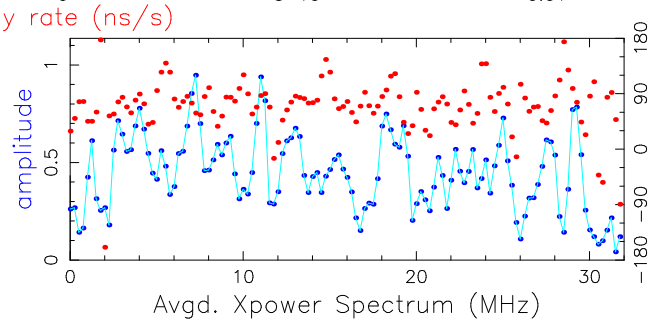
## METSAHOV - NOEMA1, fgroup W, pol LR




Fringe quality 9

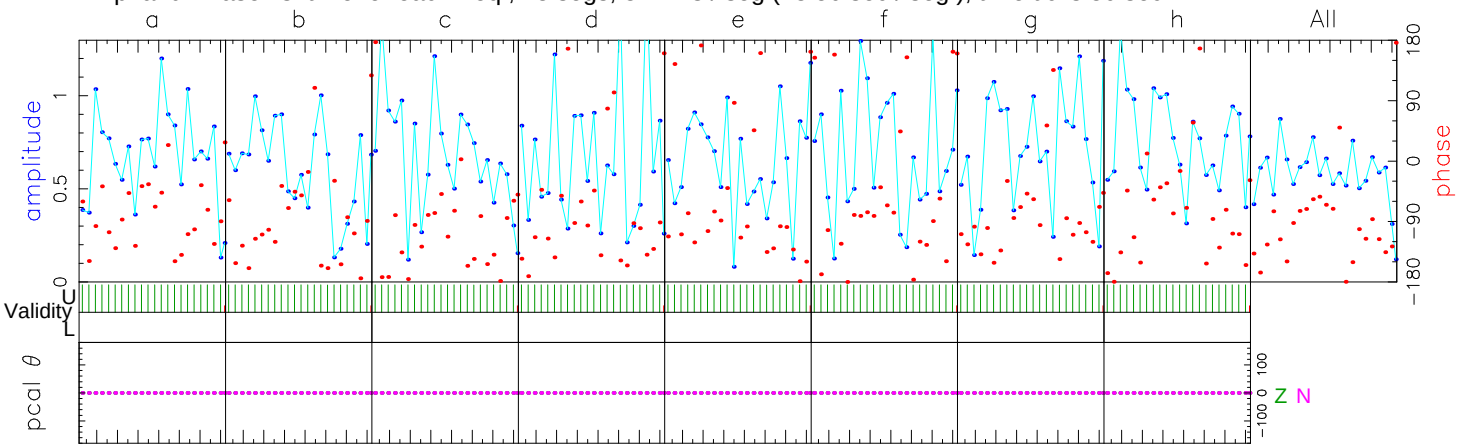
| | |
|---|---|
| SNR | 17.0 |
| Int time | 411.054 |
| Amp | 0.433 |
| Phase | 74.7 |
| PFD | 0.0e+00 |
| Delays (us) | |
| SBD | 0.023222 |
| MBD | -0.007980 |
| Fringe rate (Hz) | -0.000277 |
| Ion TEC | 0.000 |
| Ref freq (MHz) | 86140.0000 |
| AP (sec) | 0.500 |




| | |
|---|---|
| Exp. | f191b |
| Exper # | 16383 |
| Yr:day | 2019:094 |
| Start | 134508.50 |
| Stop | 135200.00 |
| FRT | 134830.00 |
| Corr/FF/build | 2019:099:161453 |
| | 2019:099:161620 |
| | 2018:249:082454 |
| RA & Dec (J2000) | 03h19m48.1601s |
| | +41°30'42.104" |

Amp. and Phase vs. time for each freq., 23 segs, 37 APs / seg (18.50 sec / seg.), time ticks 30 sec




| | | | | | | | | | Freq (MHz) | All |
|---|---|---|---|---|---|---|---|---|---|---|
| | 86124.00 | 86156.00 | 86188.00 | 86220.00 | 86252.00 | 86284.00 | 86316.00 | 86348.00 | Phase | -105.3 |
| | -79.7 | -114.1 | -118.4 | -117.5 | -118.0 | -108.8 | -98.4 | -92.1 | Ampl. | 0.4 |
| | 0.5 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | Sbd box | 132.0 |
| | 132.7 | 131.6 | 132.0 | 131.1 | 131.4 | 132.2 | 132.5 | 132.0 | APs used | |
| U/L | 823/0 | 823/0 | 823/0 | 823/0 | 823/0 | 823/0 | 823/0 | 823/0 | PC freqs | |
| Z | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | PC freqs | |
| N | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC phase | |
| Z:N | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| Z:N | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC amp | |
| Z | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| N | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| Z | W00UL | W01UL | W02UL | W03UL | W04UL | W05UL | W06UL | W07UL | Chan ids | |
| | | | | | | | | | Tracks | |
| N | W00UR | W01UR | W02UR | W03UR | W04UR | W05UR | W06UR | W07UR | Chan ids | |
| | | | | | | | | | Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec)(sbd) | -1.28514392169E+03 | Apriori delay (usec) | -1.28516719219E+03 | Resid mbdelay (usec) | -7.97950E-03 | +/- | 1.3E-04 |
| Sband delay (usec) | -1.28514397019E+03 | Apriori clock (usec) | 1.9063759E+00 | Resid sbdelay (usec) | 2.32220E-02 | +/- | 1.0E-03 |
| Phase delay (usec) | -1.28516719559E+03 | Apriori clockrate (us/s) | 3.3852001E-07 | Resid phdelay (usec) | -3.39520E-06 | +/- | 2.2E-07 |
| Delay rate (us/s) | -2.05247247033E-01 | Apriori rate (us/s) | -2.05247243822E-01 | Resid rate (us/s) | -3.21134E-09 | +/- | 9.2E-10 |
| Total phase (deg) | 97.9 | Apriori accel (us/s/s) | 1.92309372184E-05 | Resid phase (deg) | 74.7 | +/- | 6.8 |

| | RMS | Theor. | Amplitude | 0.433 +/- 0.026 |
|---|---|---|---|---|
| ph/seg (deg) | 49.0 | 16.2 | Search (2048X32) | 0.421 |
| amp/seg (%) | 47.2 | 28.3 | Interp. | 0.000 |
| ph/frq (deg) | 15.5 | 9.6 | Inc. seg. avg. | 0.569 |
| amp/frq (%) | 10.7 | 16.7 | Inc. frq. avg. | 0.439 |

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: 128 t_cohere infinite

| | | |
|---|---|---|
| sb window (us) | -1.000 | 1.000 |
| mb window (us) | -0.016 | 0.016 |
| dr window (ns/s) | -0.012 | 0.012 |
| ion window (TEC) | 0.00 | 0.00 |

Z: az 208.5 el 69.8 pa 20.4 N: az 124.0 el 84.8 pa -51.9 u,v (fr/asec) 1606.362 2418.825 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps2/f191b/FRINGE/1234/No0002//ZN..0KXQRL Output file: /Exps2/f191b/FRINGE/1234/No0002//ZN.W.19.0KXQRL