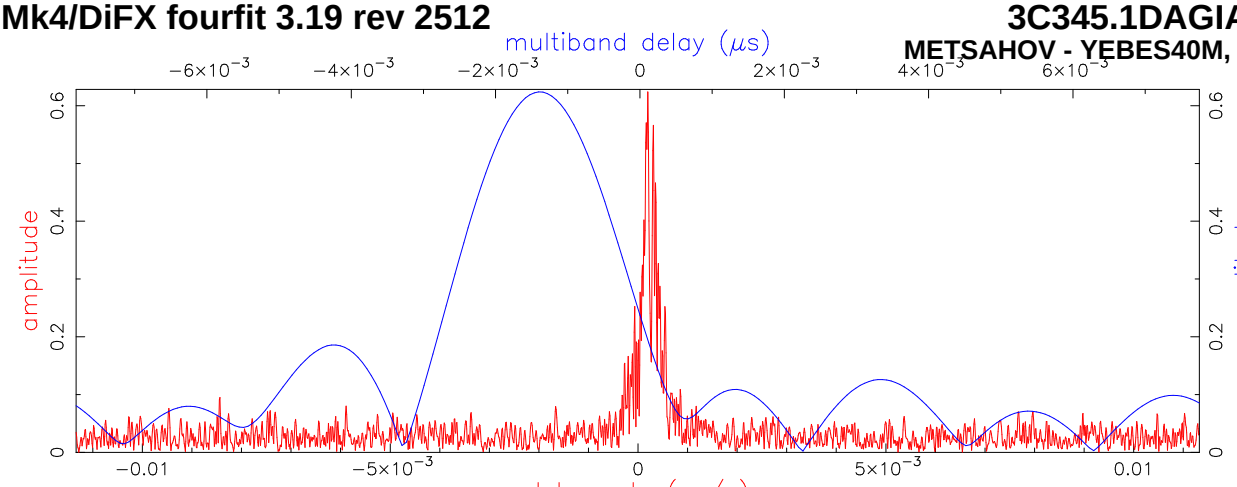
# Mk4/DiFX fourfit 3.19 rev 2512

# 3C345.1DAGIA, No0008, ZY

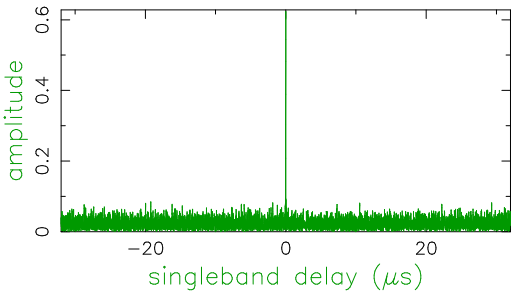
## METSAHOV - YEBES40M, fgroup W, pol LR

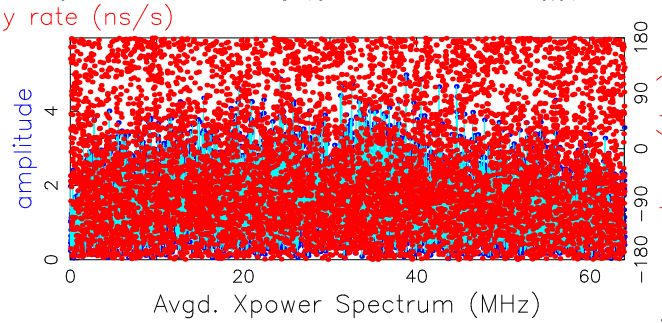



Fringe quality 7

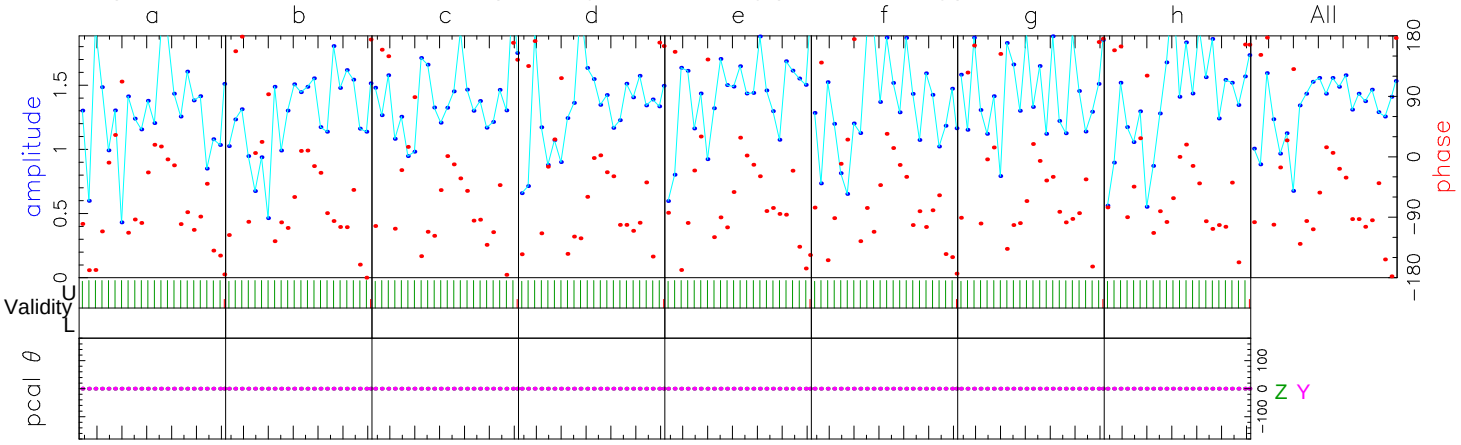
SNR 31.7
Int time 341.546
Amp 0.628
Phase -84.3
PFD 0.0e+00
Delays (us)
SBD -0.001122
MBD -0.001415
Fringe rate (Hz)
0.017305
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.512

Exp. f202a
Exper # 16383
Yr:day 2020:282
Start 140016.89
Stop 140559.94
FRT 140300.00
Corr/FF/build
2020:285:204243
2020:285:205652
2020:234:093156
RA & Dec (J2000)
16h42m58.809967s
+39°48'36.993984"




Amp. and Phase vs. time for each freq., 23 segs, 30 APs / seg (15.36 sec / seg.), time ticks 30 sec




| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 86012.00 | 86076.00 | 86140.00 | 86204.00 | 86268.00 | 86332.00 | 86396.00 | 86460.00 | Freq (MHz) | All |
| | -75.3 | -86.2 | -98.8 | -98.3 | -74.7 | -81.7 | -85.3 | -78.9 | Phase | -84.3 |
| | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.6 | 0.7 | Ampl. | 0.6 |
| | 8193.2 | 8192.3 | 8192.7 | 8192.8 | 8192.8 | 8192.5 | 8193.0 | 8192.1 | Sbd box | 8192.7 |
| U/L | 670/0 | 670/0 | 670/0 | 670/0 | 670/0 | 670/0 | 670/0 | 670/0 | APs used | |
| Z | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC freqs | |
| Y | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC freqs | |
| Z:Y | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | PC phase | |
| Z:Y | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | Manl PC | |
| Z | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | PC amp | |
| Y | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | |
| Z | W00UL | W01UL | W02UL | W03UL | W04UL | W05UL | W06UL | W07UL | Chan ids | |
| | | | | | | | | | Tracks | |
| Y | W00UR | W01UR | W02UR | W03UR | W04UR | W05UR | W06UR | W07UR | Chan ids | |
| | | | | | | | | | Tracks | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group delay (usec)(sbd) | -1.37466265410E+02 | Apriori delay (usec) | -1.37464850800E+02 | Resid mbdelay (usec) | -1.41461E-03 | +/- | 3.4E-05 |
| Sband delay (usec) | -1.37465972550E+02 | Apriori clock (usec) | -1.3524607E+01 | Resid sbdelay (usec) | -1.12175E-03 | +/- | 2.7E-04 |
| Phase delay (usec) | -1.37464853520E+02 | Apriori clockrate (us/s) | -2.0400000E-07 | Resid phdelay (usec) | -2.71982E-06 | +/- | 1.2E-07 |
| Delay rate (us/s) | -4.11659264727E-01 | Apriori rate (us/s) | -4.11659465625E-01 | Resid rate (us/s) | 2.00898E-07 | +/- | 5.9E-10 |
| Total phase (deg) | -173.6 | Apriori accel (us/s/s) | 1.64280201075E-05 | Resid phase (deg) | -84.3 | +/- | 3.6 |

| | RMS | Theor. | Amplitude | 0.628 +/- 0.020 |
|---|---|---|---|---|
| ph/seg (deg) | 70.6 | 8.7 | Search (2048X32) | 0.618 |
| amp/seg (%) | 116.4 | 15.1 | Interp. | 0.000 |
| ph/frq (deg) | 10.2 | 5.1 | Inc. seg. avg. | 1.304 |
| amp/frq (%) | 8.1 | 8.9 | Inc. frq. avg. | 0.628 |

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): 128
Data rate(Mb/s): 2048 nlags: 8192 t_cohere infinite

| | | |
|---|---|---|
| sb window (us) | -32.000 | 32.000 |
| mb window (us) | -0.008 | 0.008 |
| dr window (ns/s) | -0.011 | 0.011 |
| ion window (TEC) | 0.00 | 0.00 |

Z: az 182.5 el 69.5 pa 2.7 Y: az 83.5 el 69.9 pa -79.6 u,v (fr/asec) 3095.629 2528.286 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/f202a/FRINGE/1234/No0008/ZY..1DAGIA Output file: /Exps/f202a/FRINGE/1234/No0008/ZY.W.43.1DAGIA