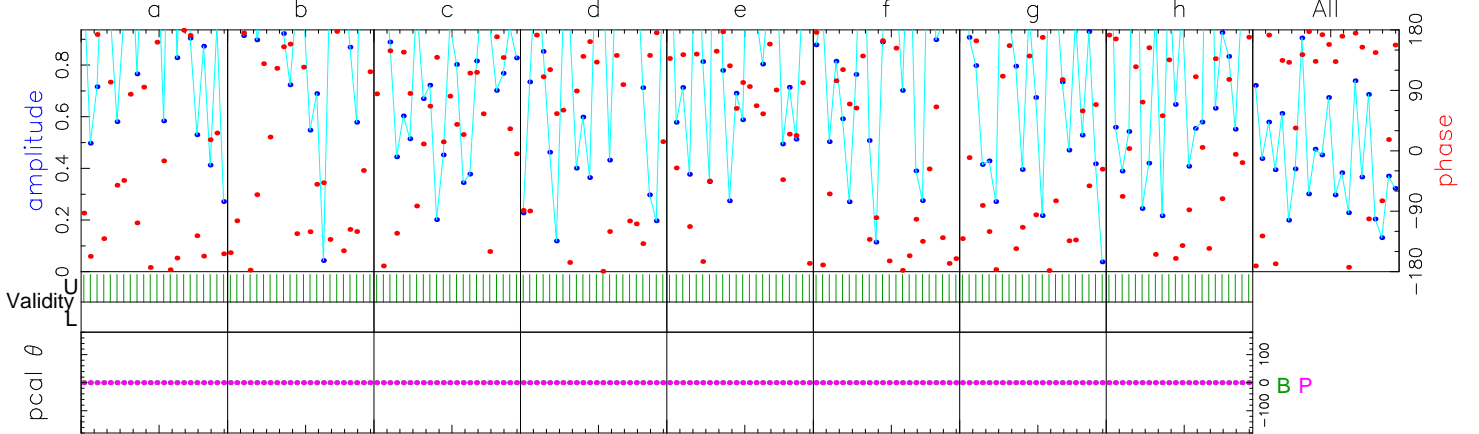
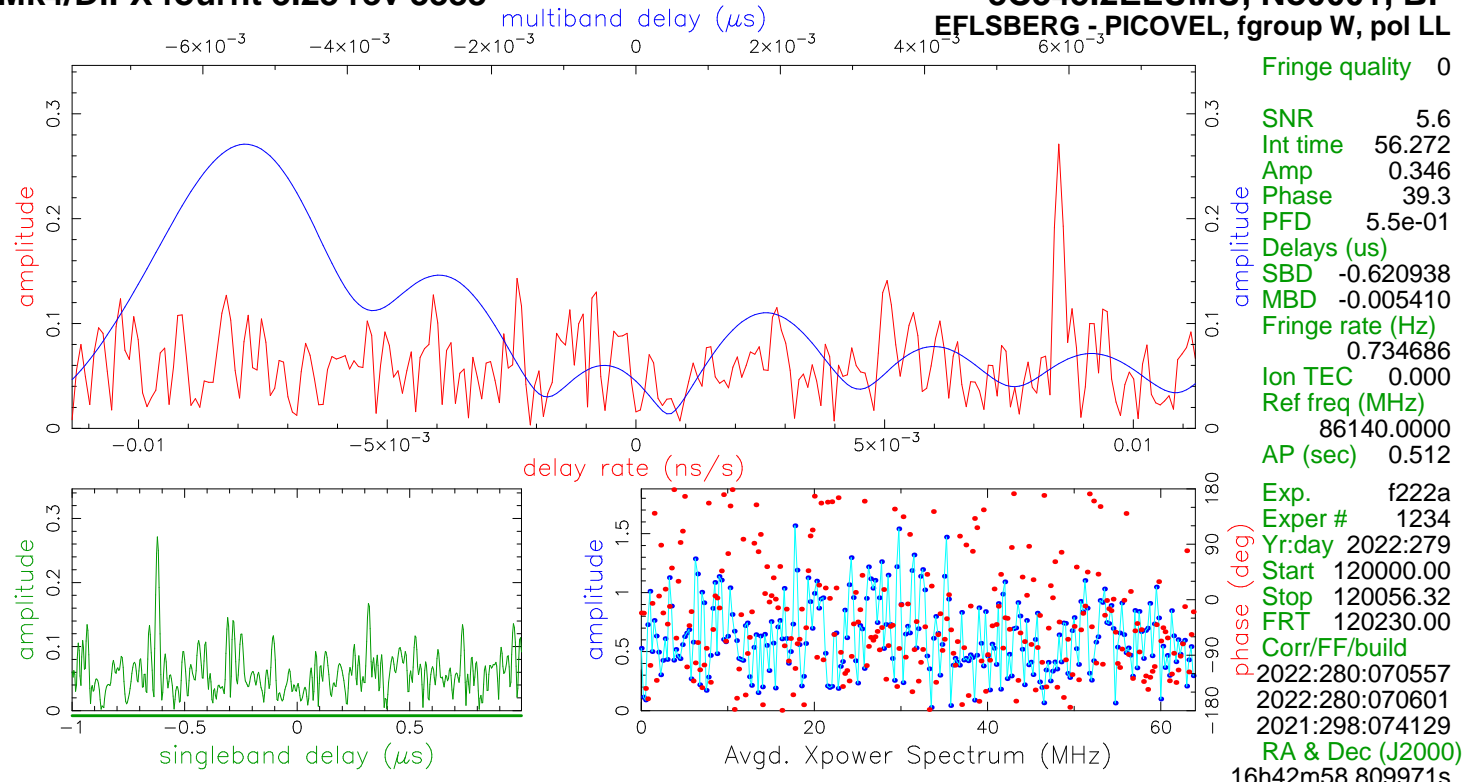


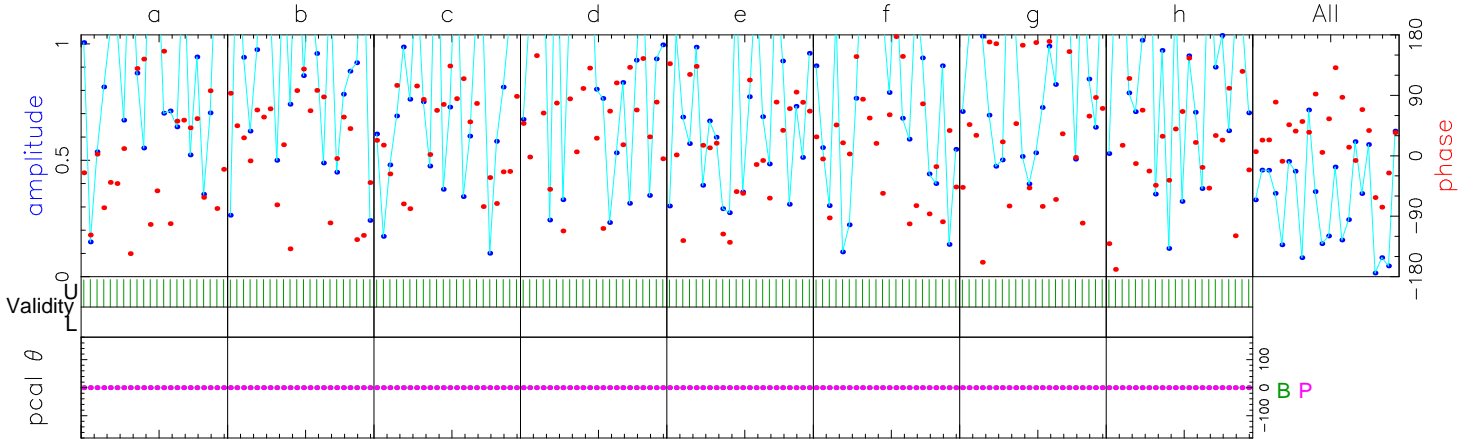
Amp. and Phase vs. time for each freq., 22 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



|                             | 86012.00           | 86076.00                                                   | 86140.00                 | 86204.00                                                        | 86268.00                                      | 86332.00     | 86396.00                     | 86460.00         | Freq (MHz)                | All   |
|-----------------------------|--------------------|------------------------------------------------------------|--------------------------|-----------------------------------------------------------------|-----------------------------------------------|--------------|------------------------------|------------------|---------------------------|-------|
|                             | -174.4             | -160.6                                                     | 94.7                     | 161.9                                                           | 121.9                                         | 179.9        | -157.3                       | 172.7            | Phase                     | 166.6 |
|                             | 0.4                | 0.4                                                        | 0.3                      | 0.3                                                             | 0.5                                           | 0.5          | 0.3                          | 0.3              | Ampl.                     | 0.3   |
|                             | 221.8              | 300.8                                                      | 467.1                    | 429.4                                                           | 255.0                                         | 258.2        | 278.2                        | 420.3            | Sbd box                   | 256.1 |
| U/L                         | 110/0              | 110/0                                                      | 110/0                    | 110/0                                                           | 110/0                                         | 110/0        | 110/0                        | 110/0            | APs used                  |       |
| B                           | 1000               | 1000                                                       | 1000                     | 1000                                                            | 1000                                          | 1000         | 1000                         | 1000             | PC freqs                  |       |
| P                           | 1000               | 1000                                                       | 1000                     | 1000                                                            | 1000                                          | 1000         | 1000                         | 1000             | PC freqs                  |       |
| B:P                         | 0:0                | 0:0                                                        | 0:0                      | 0:0                                                             | 0:0                                           | 0:0          | 0:0                          | 0:0              | PC phase                  |       |
| B:P                         | 0:0                | 0:0                                                        | 0:0                      | 0:0                                                             | 0:0                                           | 0:0          | 0:0                          | 0:0              | Mani PC                   |       |
| B                           | 1000               | 1000                                                       | 1000                     | 1000                                                            | 1000                                          | 1000         | 1000                         | 1000             | PC amp                    |       |
| P                           | 1000               | 1000                                                       | 1000                     | 1000                                                            | 1000                                          | 1000         | 1000                         | 1000             |                           |       |
| B                           | W00UR              | W01UR                                                      | W02UR                    | W03UR                                                           | W04UR                                         | W05UR        | W06UR                        | W07UR            | Chan ids                  |       |
| P                           | W00UR              | W01UR                                                      | W02UR                    | W03UR                                                           | W04UR                                         | W05UR        | W06UR                        | W07UR            | Tracks                    |       |
|                             |                    |                                                            |                          |                                                                 |                                               |              |                              |                  | Chan ids                  |       |
|                             |                    |                                                            |                          |                                                                 |                                               |              |                              |                  | Tracks                    |       |
| Group delay (usec) (SBD)    | 2.38249167840E+03  |                                                            | Apriori delay (usec)     | 2.38249566798E+03                                               | Resid mbdelay (usec)                          | -3.98958E-03 | +/-                          | 1.7E-04          |                           |       |
| Sband delay (usec)          | 2.38249232448E+03  |                                                            | Apriori clock (usec)     | -2.7548073E+01                                                  | Resid sbdelay (usec)                          | -3.34350E-03 | +/-                          | 1.3E-03          |                           |       |
| Phase delay (usec)          | 2.38249567335E+03  |                                                            | Apriori clockrate (us/s) | -4.7900003E-07                                                  | Resid phdelay (usec)                          | 5.37145E-06  | +/-                          | 5.8E-07          |                           |       |
| Delay rate (us/s)           | -2.46115899866E-01 |                                                            | Apriori rate (us/s)      | -2.46115952928E-01                                              | Resid rate (us/s)                             | 5.30625E-08  | +/-                          | 1.8E-08          |                           |       |
| Total phase (deg)           |                    | 108.9                                                      | Apriori accel (us/s/s)   | -6.12588289806E-07                                              | Resid phase (deg)                             | 166.6        | +/-                          | 17.9             |                           |       |
| RMS                         | 58.3               | 42.0                                                       | Amplitude                | 0.312 +/- 0.049                                                 | Pcal mode: MANUAL, MANUAL                     |              | PC period (AP's)             | 5, 5             |                           |       |
| ph/seg (deg)                | 77.4               | 73.2                                                       | Search (256X32)          | 0.300                                                           | Pcal rate: 0.000E+00, 0.000E+00 (us/s)        |              | sb window (us)               | -1.000 1.000     |                           |       |
| amp/seg (%)                 | 41.1               | 25.3                                                       | Interp.                  | 0.000                                                           | Bits/sample: 2x2                              |              | SampCntNorm: enabled         | mb window (us)   | -0.008 0.008              |       |
| ph/frq (deg)                | 33.1               | 44.2                                                       | Inc. seg. avg.           | 0.354                                                           | Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us |              | dr window (ns/s)             | -0.011 0.011     |                           |       |
| amp/frq (%)                 |                    |                                                            | Inc. frq. avg.           | 0.340                                                           | Data rate(Mb/s): 2048                         |              | nlags: 256 t_cohere infinite | ion window (TEC) | 0.00 0.00                 |       |
| B: az 88.3 el 54.6 pa -55.8 |                    | P: az 67.5 el 44.4 pa -73.9                                |                          | u, v (fr/asec)                                                  | 1836.106 1093.550                             |              |                              |                  | simultaneous interpolator |       |
| Control file: cf_1234_gmva  |                    | Input file: /Exps/f222a/FRINGE/janw/1234/No0001/BP..2ELUMU |                          | Output file: /Exps/f222a/FRINGE/janw/1234/No0001/BP.W.12.2ELUMU |                                               |              |                              |                  |                           |       |



Amp. and Phase vs. time for each freq., 22 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



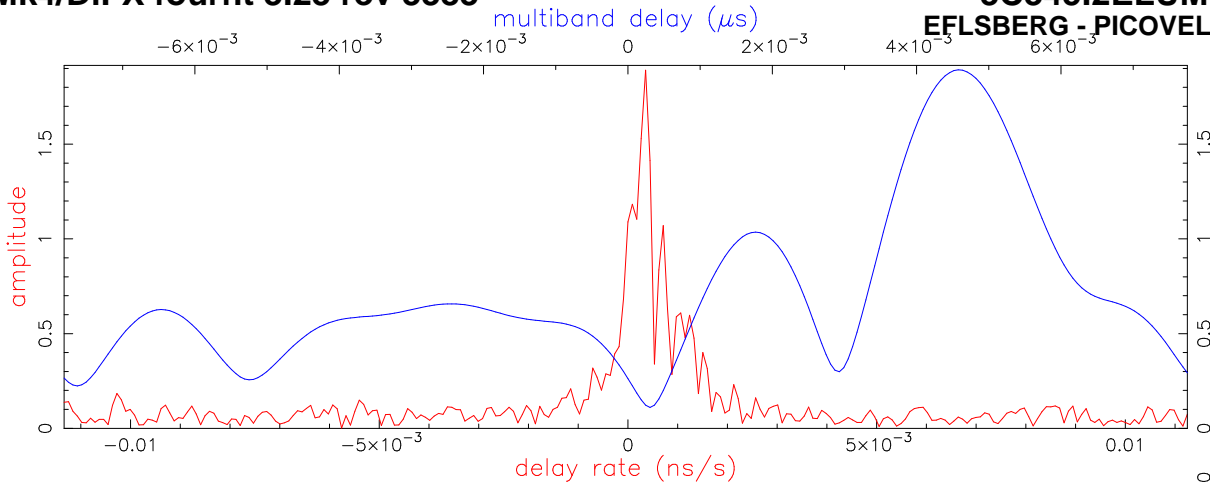
|     | 86012.00 | 86076.00 | 86140.00 | 86204.00 | 86268.00 | 86332.00 | 86396.00 | 86460.00 | Freq (MHz) | All  |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|------------|------|
|     | -42.1    | 55.0     | 53.0     | 72.9     | 35.9     | 24.7     | 35.6     | 19.7     | Phase      | 39.3 |
|     | 0.4      | 0.5      | 0.5      | 0.7      | 0.4      | 0.3      | 0.2      | 0.4      | Ampl.      | 0.4  |
|     | 100.7    | 7.8      | 457.3    | 97.8     | 462.9    | 80.8     | 337.9    | 40.2     | Sbd box    | 98.0 |
| U/L | 110/0    | 110/0    | 110/0    | 110/0    | 110/0    | 110/0    | 110/0    | 110/0    | APs used   |      |
| B   | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | PC freqs   |      |
| P   | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | PC freqs   |      |
| B:P | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | PC phase   |      |
| B:P | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | Mani PC    |      |
| B   | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | PC amp     |      |
| P   | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     |            |      |
| B   | W00UL    | W01UL    | W02UL    | W03UL    | W04UL    | W05UL    | W06UL    | W07UL    | Chan ids   |      |
| P   | W00UL    | W01UL    | W02UL    | W03UL    | W04UL    | W05UL    | W06UL    | W07UL    | Tracks     |      |

|                          |                    |                          |                    |                      |              |     |         |
|--------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec) (SBD) | 2.38188088252E+03  | Apriori delay (usec)     | 2.38249566798E+03  | Resid mbdelay (usec) | -5.41046E-03 | +/- | 2.0E-04 |
| Sband delay (usec)       | 2.38187472998E+03  | Apriori clock (usec)     | -2.7548073E+01     | Resid sbdelay (usec) | -6.20938E-01 | +/- | 1.5E-03 |
| Phase delay (usec)       | 2.38249566925E+03  | Apriori clockrate (us/s) | -4.7900003E-07     | Resid phdelay (usec) | 1.26633E-06  | +/- | 6.6E-07 |
| Delay rate (us/s)        | -2.46107423947E-01 | Apriori rate (us/s)      | -2.46115952928E-01 | Resid rate (us/s)    | 8.52898E-06  | +/- | 2.0E-08 |
| Total phase (deg)        | 341.6              | Apriori accel (us/s/s)   | -6.12588289806E-07 | Resid phase (deg)    | 39.3         | +/- | 20.6    |

|              |      |                 |       |                     |                             |                              |                  |            |                |                  |      |
|--------------|------|-----------------|-------|---------------------|-----------------------------|------------------------------|------------------|------------|----------------|------------------|------|
| ph/seg (deg) | 48.7 | RMS             | 48.3  | Theor.              | 48.3                        | Amplitude                    | 0.346 +/- 0.062  | Pcal mode: | MANUAL, MANUAL | PC period (AP's) | 5, 5 |
| amp/seg (%)  | 77.5 | Search (256X32) | 0.258 | Pcal rate:          | 0.000E+00, 0.000E+00 (us/s) | sb window (us)               | -1.000           | 1.000      |                |                  |      |
| ph/frq (deg) | 38.3 | Interp.         | 0.000 | Bits/sample:        | 2x2                         | SampCntNorm: enabled         | mb window (us)   | -0.008     | 0.008          |                  |      |
| amp/frq (%)  | 44.2 | Inc. seg. avg.  | 0.314 | Data rate(MSamp/s): | 128 MBpts 32 Amb 0.016 us   | dr window (ns/s)             | -0.011           | 0.011      |                |                  |      |
|              |      | Inc. frq. avg.  | 0.362 | Data rate(Mb/s):    | 2048                        | nlags: 256 t_cohere infinite | ion window (TEC) | 0.00       | 0.00           |                  |      |

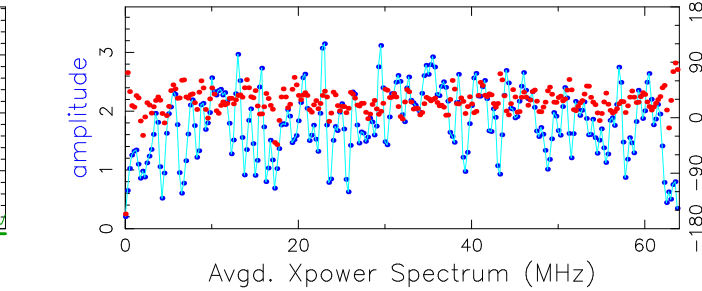
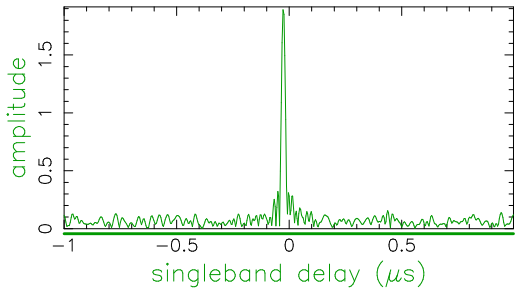
B: az 88.3 el 54.6 pa -55.8 P: az 67.5 el 44.4 pa -73.9 u,v (fr/asec) 1836.106 1093.550 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/f222a/FRINGE/janw/1234/No0001/BP..2ELUMU Output file: /Exps/f222a/FRINGE/janw/1234/No0001/BP.W.5.2ELUMU



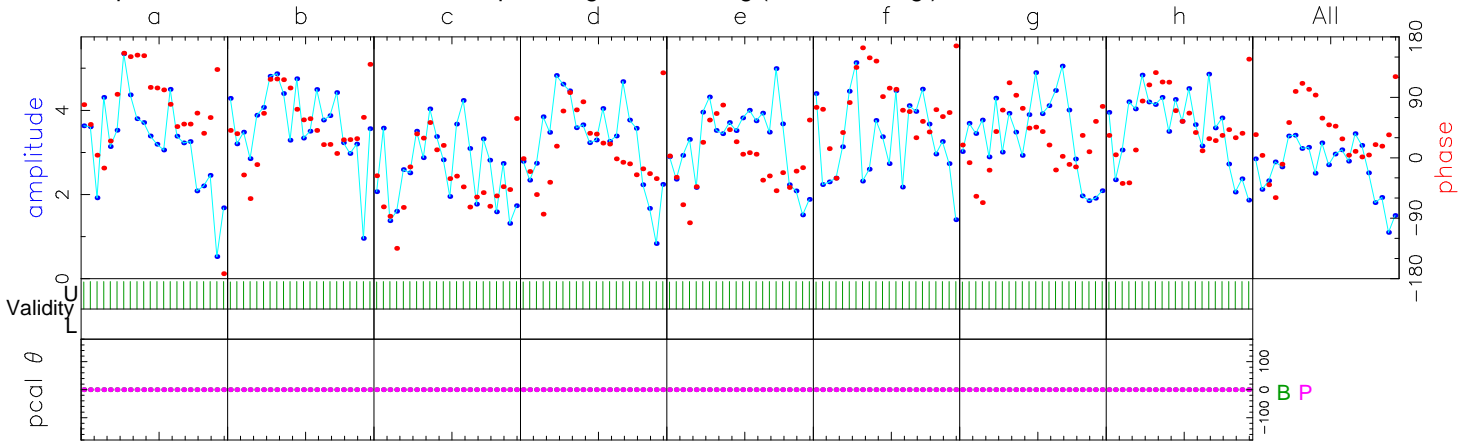
Fringe quality 4

SNR 39.3  
Int time 56.272  
Amp 1.916  
Phase 36.0  
PFD 0.0e+00  
Delays (us)  
SBD -0.025867  
MBD 0.004633  
Fringe rate (Hz)  
0.033953  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. f222a  
Exper # 1234  
Yr:day 2022:279  
Start 120000.00  
Stop 120056.32  
FRT 120230.00  
Corr/FF/build  
2022:280:070557  
2022:280:070603  
2021:298:074129  
RA & Dec (J2000)  
16h42m58.809971s  
+39°48'36.993958"

Amp. and Phase vs. time for each freq., 22 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec

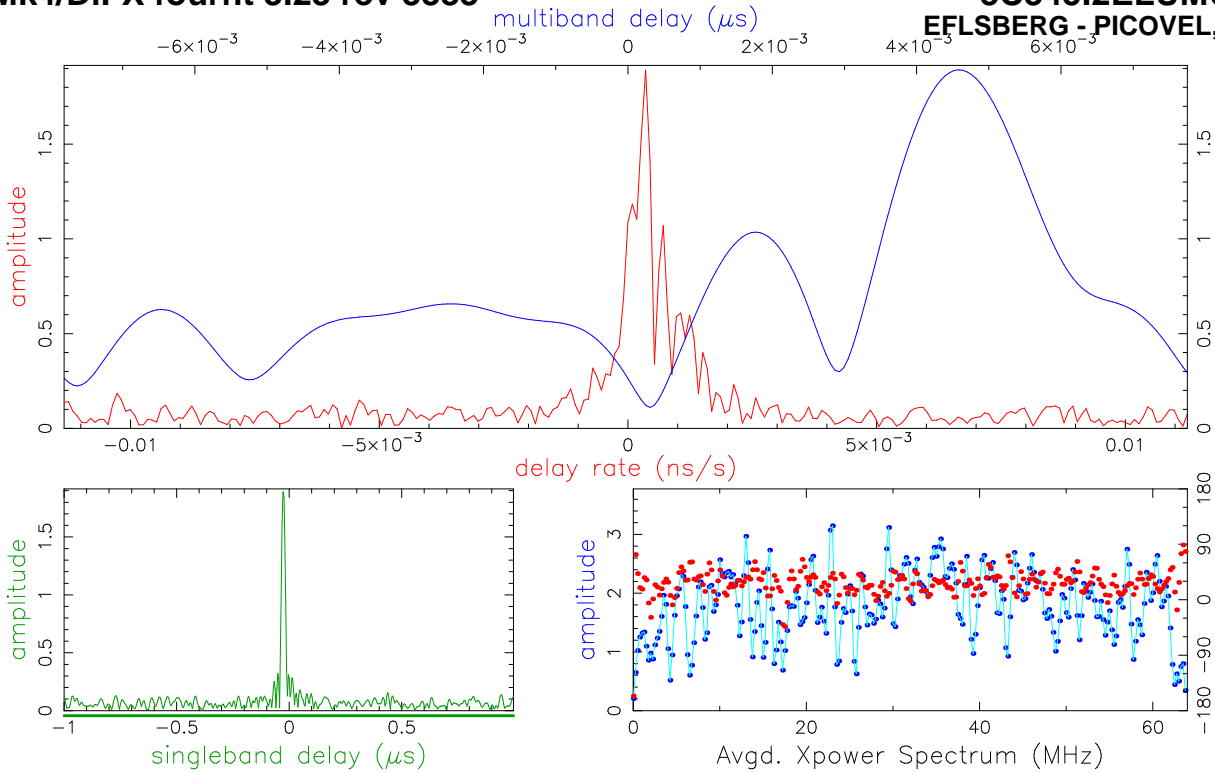


|     | 86012.00 | 86076.00 | 86140.00 | 86204.00 | 86268.00 | 86332.00 | 86396.00 | 86460.00 | Freq (MHz) | All   |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|------------|-------|
|     | 85.8     | 51.0     | -28.6    | 14.3     | -1.9     | 79.4     | 22.7     | 50.8     | Phase      | 36.0  |
|     | 2.0      | 2.5      | 1.9      | 2.2      | 2.4      | 2.4      | 2.5      | 2.5      | Ampl.      | 2.3   |
|     | 248.6    | 250.4    | 251.0    | 251.1    | 251.5    | 250.7    | 251.4    | 249.9    | Sbd box    | 250.4 |
| U/L | 110/0    | 110/0    | 110/0    | 110/0    | 110/0    | 110/0    | 110/0    | 110/0    | APs used   |       |
| B   | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | PC freqs   |       |
| P   | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | PC freqs   |       |
| B:P | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | PC phase   |       |
| B:P | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | 0:0      | Manl PC    |       |
| B   | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | PC amp     |       |
| P   | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     | 1000     |            |       |
| B   | W00UR    | W01UR    | W02UR    | W03UR    | W04UR    | W05UR    | W06UR    | W07UR    | Chan ids   |       |
| P   | W00UL    | W01UL    | W02UL    | W03UL    | W04UL    | W05UL    | W06UL    | W07UL    | Tracks     |       |

|                          |                    |                          |                    |                      |              |     |         |
|--------------------------|--------------------|--------------------------|--------------------|----------------------|--------------|-----|---------|
| Group delay (usec) (SBD) | 2.38246905078E+03  | Apriori delay (usec)     | 2.38249566798E+03  | Resid mbdelay (usec) | 4.63280E-03  | +/- | 2.8E-05 |
| Sband delay (usec)       | 2.38246980098E+03  | Apriori clock (usec)     | -2.7548073E+01     | Resid sbdelay (usec) | -2.58670E-02 | +/- | 2.2E-04 |
| Phase delay (usec)       | 2.38249566914E+03  | Apriori clockrate (us/s) | -4.7900003E-07     | Resid phdelay (usec) | 1.16017E-06  | +/- | 9.4E-08 |
| Delay rate (us/s)        | -2.46115558772E-01 | Apriori rate (us/s)      | -2.46115952928E-01 | Resid rate (us/s)    | 3.94156E-07  | +/- | 2.9E-09 |
| Total phase (deg)        | 338.4              | Apriori accel (us/s/s)   | -6.12588289806E-07 | Resid phase (deg)    | 36.0         | +/- | 2.9     |

|              |      |      |        |                 |                 |                     |                             |                              |                  |              |
|--------------|------|------|--------|-----------------|-----------------|---------------------|-----------------------------|------------------------------|------------------|--------------|
| ph/seg (deg) | 46.8 | RMS  | Theor. | Amplitude       | 1.916 +/- 0.049 | Pcal mode:          | MANUAL, MANUAL              | PC period (AP's)             | 5, 5             |              |
| amp/seg (%)  | 50.6 | 46.8 | 6.8    | Search (256X32) | 1.783           | Pcal rate:          | 0.000E+00, 0.000E+00 (us/s) | sb window (us)               | -1.000 1.000     |              |
| ph/frq (deg) | 42.9 | 50.6 | 11.9   | Interp.         | 0.000           | Bits/sample:        | 2x2                         | SampCntNorm: enabled         | mb window (us)   | -0.008 0.008 |
| amp/frq (%)  | 23.8 | 42.9 | 4.1    | Inc. seg. avg.  | 2.641           | Data rate(MSamp/s): | 128 MBpts 32 Amb 0.016 us   | dr window (ns/s)             | -0.011 0.011     |              |
|              |      | 23.8 | 7.2    | Inc. frq. avg.  | 2.305           | Data rate(Mb/s):    | 2048                        | nlags: 256 t_cohere infinite | ion window (TEC) | 0.00 0.00    |

B: az 88.3 el 54.6 pa -55.8 P: az 67.5 el 44.4 pa -73.9 u,v (fr/asec) 1836.106 1093.550 simultaneous interpolator  
Control file: cf\_1234\_gmva Input file: /Exps/f222a/FRINGE/janw/1234/No0001/BP..2ELUMU Output file: /Exps/f222a/FRINGE/janw/1234/No0001/BP.W.22.2ELUMU

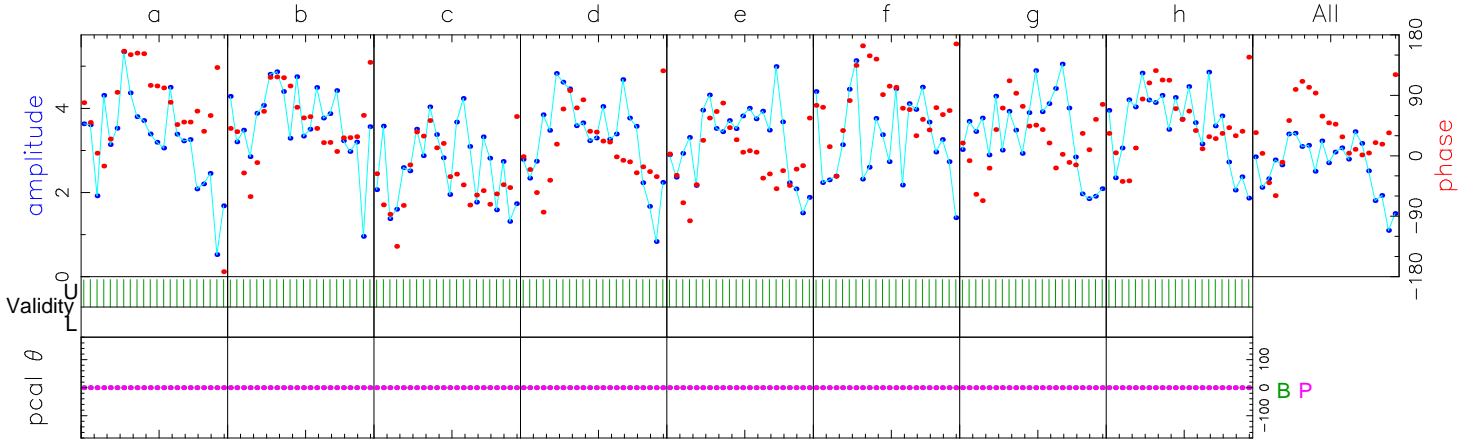


Fringe quality 4

SNR 39.3  
Int time 56.272  
Amp 1.916  
Phase 36.0  
PFD 0.0e+00  
Delays (us)  
SBD -0.025867  
MBD 0.004633  
Fringe rate (Hz)  
0.033953  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. f222a  
Exper # 1234  
Yr:day 2022:279  
Start 120000.00  
Stop 120056.32  
FRT 120230.00  
Corr/FF/build  
2022:280:070557  
2022:280:070603  
2021:298:074129  
RA & Dec (J2000)  
16h42m58.809971s  
+39°48'36.993958"

Amp. and Phase vs. time for each freq., 22 segs, 5 APs / seg (2.56 sec / seg.), time ticks 5 sec



|                             | 86012.00                                                   | 86076.00 | 86140.00                                                        | 86204.00        | 86268.00           | 86332.00                                      | 86396.00             | 86460.00              | Freq (MHz)                | All              |       |      |
|-----------------------------|------------------------------------------------------------|----------|-----------------------------------------------------------------|-----------------|--------------------|-----------------------------------------------|----------------------|-----------------------|---------------------------|------------------|-------|------|
|                             | 85.8                                                       | 51.0     | -28.6                                                           | 14.3            | -1.9               | 79.4                                          | 22.7                 | 50.8                  | Phase                     | 36.0             |       |      |
|                             | 2.0                                                        | 2.5      | 1.9                                                             | 2.2             | 2.4                | 2.4                                           | 2.5                  | 2.5                   | Ampl.                     | 2.3              |       |      |
|                             | 248.6                                                      | 250.4    | 251.0                                                           | 251.1           | 251.5              | 250.7                                         | 251.4                | 249.9                 | Sbd box                   | 250.4            |       |      |
| U/L                         | 110/0                                                      | 110/0    | 110/0                                                           | 110/0           | 110/0              | 110/0                                         | 110/0                | 110/0                 | APs used                  |                  |       |      |
| B                           | 1000                                                       | 1000     | 1000                                                            | 1000            | 1000               | 1000                                          | 1000                 | 1000                  | PC freqs                  |                  |       |      |
| P                           | 1000                                                       | 1000     | 1000                                                            | 1000            | 1000               | 1000                                          | 1000                 | 1000                  | PC freqs                  |                  |       |      |
| B:P                         | 0:0                                                        | 0:0      | 0:0                                                             | 0:0             | 0:0                | 0:0                                           | 0:0                  | 0:0                   | PC phase                  |                  |       |      |
| B:P                         | 0:0                                                        | 0:0      | 0:0                                                             | 0:0             | 0:0                | 0:0                                           | 0:0                  | 0:0                   | Mani PC                   |                  |       |      |
| B                           | 1000                                                       | 1000     | 1000                                                            | 1000            | 1000               | 1000                                          | 1000                 | 1000                  | PC amp                    |                  |       |      |
| P                           | 1000                                                       | 1000     | 1000                                                            | 1000            | 1000               | 1000                                          | 1000                 | 1000                  |                           |                  |       |      |
| B                           | W00UR                                                      | W01UR    | W02UR                                                           | W03UR           | W04UR              | W05UR                                         | W06UR                | W07UR                 | Chan ids                  |                  |       |      |
| P                           | W00UL                                                      | W01UL    | W02UL                                                           | W03UL           | W04UL              | W05UL                                         | W06UL                | W07UL                 | Tracks                    |                  |       |      |
|                             |                                                            |          |                                                                 |                 |                    |                                               |                      |                       | Tracks                    |                  |       |      |
| Group delay (usec) (SBD)    | 2.38246905078E+03                                          |          | Apriori delay (usec)                                            |                 | 2.38249566798E+03  |                                               | Resid mbdelay (usec) |                       | 4.63280E-03               | +/- 2.8E-05      |       |      |
| Sband delay (usec)          | 2.38246980098E+03                                          |          | Apriori clock (usec)                                            |                 | -2.7548073E+01     |                                               | Resid sbdelay (usec) |                       | -2.58670E-02              | +/- 2.2E-04      |       |      |
| Phase delay (usec)          | 2.38249566914E+03                                          |          | Apriori clockrate (us/s)                                        |                 | -4.7900003E-07     |                                               | Resid phdelay (usec) |                       | 1.16017E-06               | +/- 9.4E-08      |       |      |
| Delay rate (us/s)           | -2.46115558772E-01                                         |          | Apriori rate (us/s)                                             |                 | -2.46115952928E-01 |                                               | Resid rate (us/s)    |                       | 3.94156E-07               | +/- 2.9E-09      |       |      |
| Total phase (deg)           | 338.4                                                      |          | Apriori accel (us/s/s)                                          |                 | -6.12588289806E-07 |                                               | Resid phase (deg)    |                       | 36.0                      | +/- 2.9          |       |      |
|                             | RMS                                                        | Theor.   | Amplitude                                                       | 1.916 +/- 0.049 |                    | Pcal mode: MANUAL, MANUAL                     |                      | PC period (AP's) 5, 5 |                           |                  |       |      |
| ph/seg (deg)                | 46.8                                                       | 6.8      | Search (256X32)                                                 | 1.783           |                    | Pcal rate: 0.000E+00, 0.000E+00 (us/s)        |                      | sb window (us)        | -1.000                    | 1.000            |       |      |
| amp/seg (%)                 | 50.6                                                       | 11.9     | Interp.                                                         | 0.000           |                    | Bits/sample: 2x2                              |                      | SampCntNorm: enabled  | mb window (us)            | -0.008           | 0.008 |      |
| ph/frq (deg)                | 42.9                                                       | 4.1      | Inc. seg. avg.                                                  | 2.641           |                    | Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us |                      | dr window (ns/s)      | -0.011                    | 0.011            |       |      |
| amp/frq (%)                 | 23.8                                                       | 7.2      | Inc. frq. avg.                                                  | 2.305           |                    | Data rate(Mb/s): 2048                         |                      | nlags: 256            | t_cohere infinite         | ion window (TEC) | 0.00  | 0.00 |
| B: az 88.3 el 54.6 pa -55.8 | P: az 67.5 el 44.4 pa -73.9                                |          | u, v (fr/asec) 1836.106 1093.550                                |                 |                    |                                               |                      |                       | simultaneous interpolator |                  |       |      |
| Control file: cf_1234_gmva  | Input file: /Exps/f222a/FRINGE/janw/1234/No0001/BP..2ELUMU |          | Output file: /Exps/f222a/FRINGE/janw/1234/No0001/BP.W.22.2ELUMU |                 |                    |                                               |                      |                       |                           |                  |       |      |