Conditioning Report

|  |  |  |
| --- | --- | --- |
| Target material and number | | SiC#37 |
| Target WO-SN | | 39530-10 |
| Operator name | | Aaron Schmidt |
|  | |  |
| Heating start date and time | | 2017-10-14 06:43 |
| BIAS | |  |
| Voltage [kV] | | 30 |
| Current [µA] | | 37 |
| Extraction Electrode (EE) | |  |
| Voltage [kV] | | 1.5 |
| Current [µA] | | 510 |
| TGHT | |  |
| Current [A] | | 582 |
| Voltage [V] | | 5.2 |
| TBHT | |  |
| Current [A] | | 322 |
| Voltage [V] | | 2.6 |
| FEBIAD ANODE | |  |
| Voltage [V] | | 200 |
| Current [mA] | | 7.3 |
| FEBIAD COIL | |  |
| Current [A] | | \*0.29 |
| Voltage [V] | | \*0 |
| Flow and Temperature HS + MSP | | 27.0 |
| Flow [lpm] | | 3.98 |
| Temperature increase [C] | | +6.8 (31.4)\* |
| FC6 currents [A] | | 6.93E-07 |
| SIS | 7Li | - |
| FEBIAD | 20Ne | 2.67E-10 |
| SIS | 23Na | - |
| SIS | 39K | - |
| SIS | 85Rb | - |
| SIS | 133Cs | - |
| Heating end date and time | | 2017-10-15 22:30 |

Comments

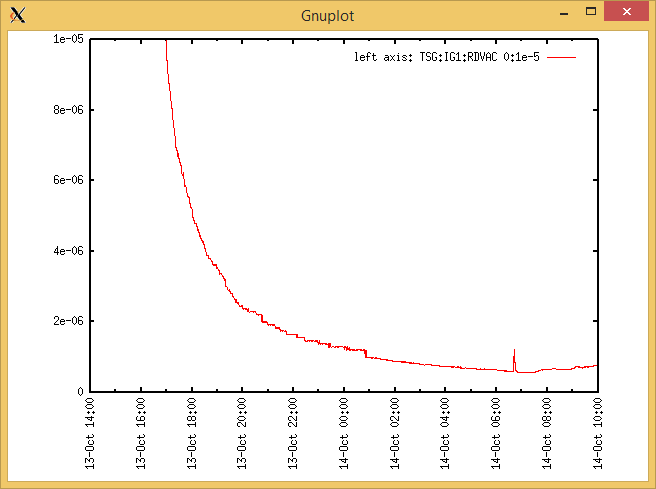
\*Coil was routed on right leg into the HS. The coil was not tested due to SS connections.

\*Temperature from first test 10/10/2017

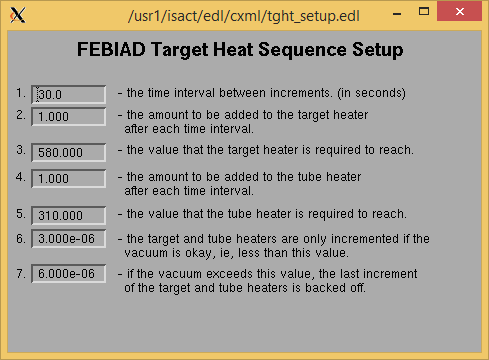
\*Short on anode noted in first test, was fixed. The grid clamp was removed and the grid spot welded to the anode chamber

Plots

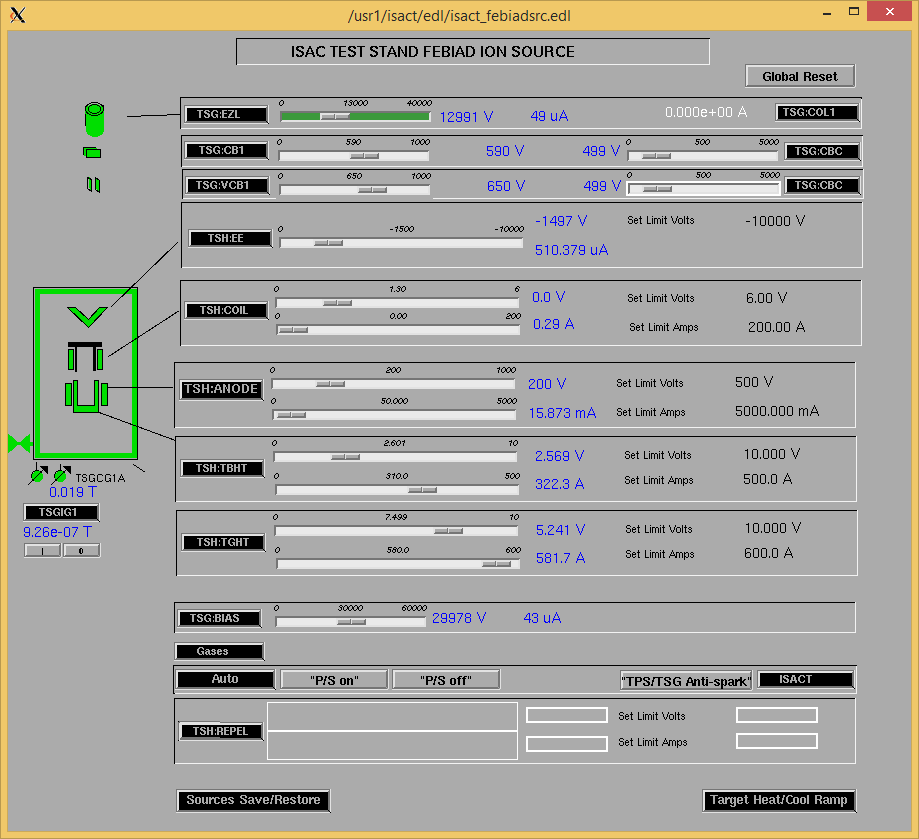
8h Vacuum Pump Down



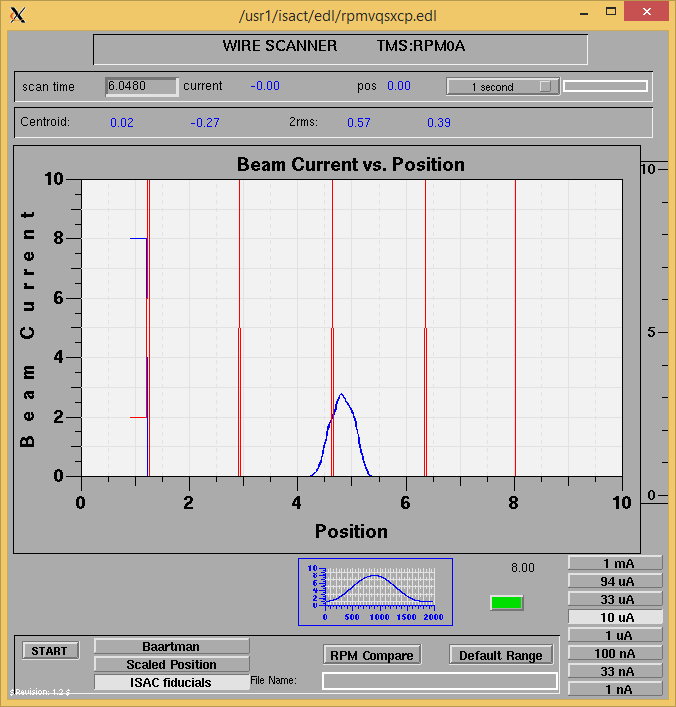
Target Heat Sequence Setup

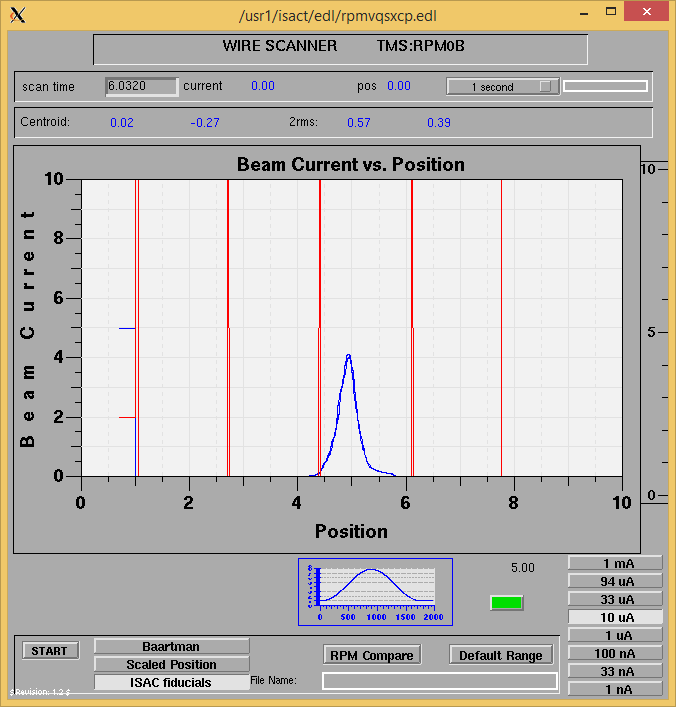


Source Tuning

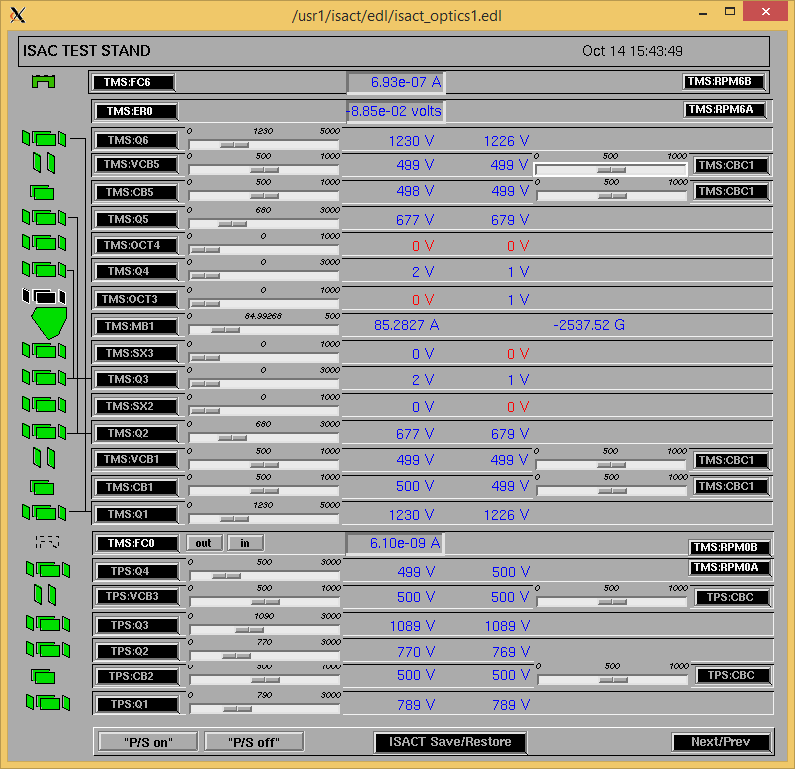


Wire Scanners RPM0A and RPM0B





Optics Tuning

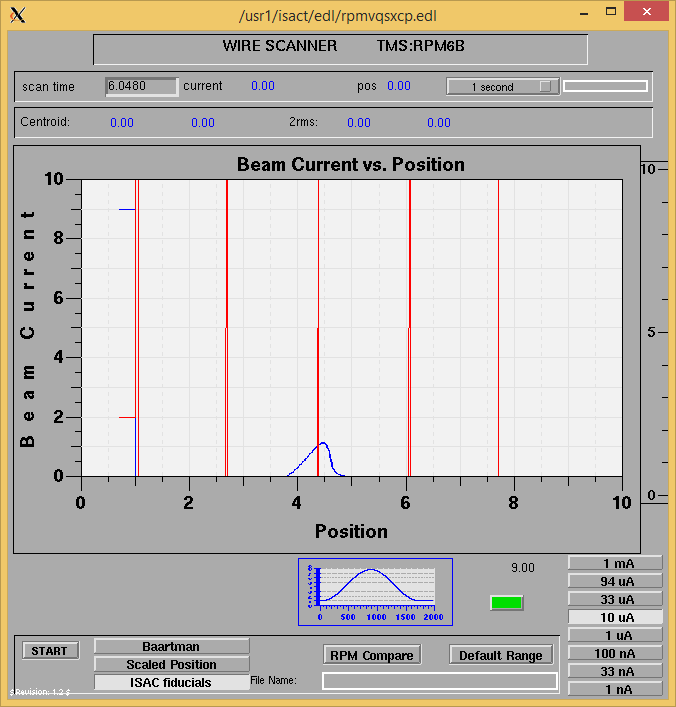


Wire Scanners RPM6A and RPM6B

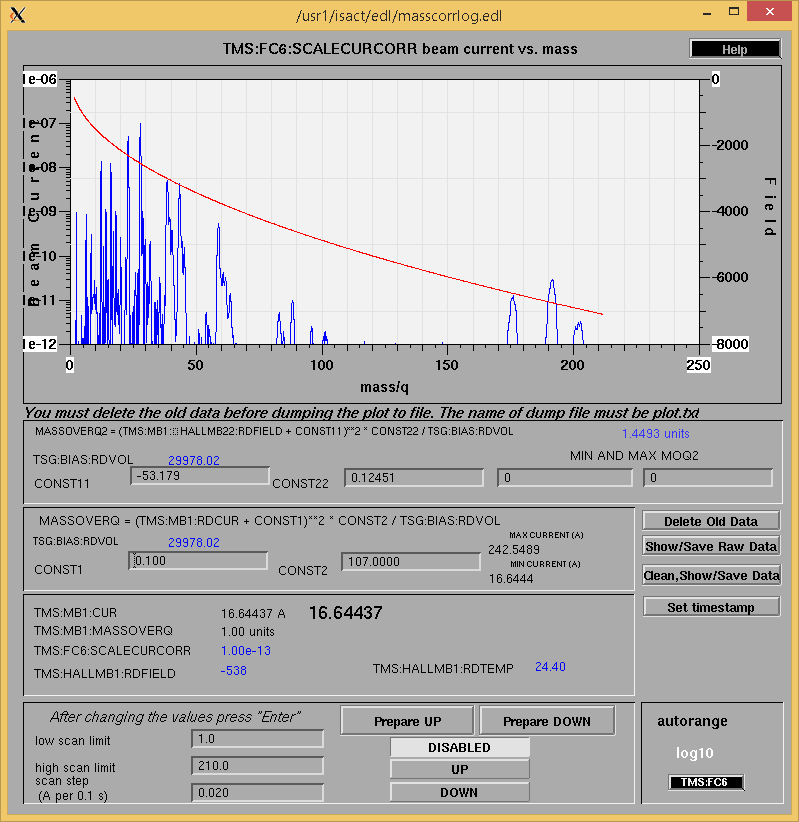
Mass 28



Mass 28



Mass Scan



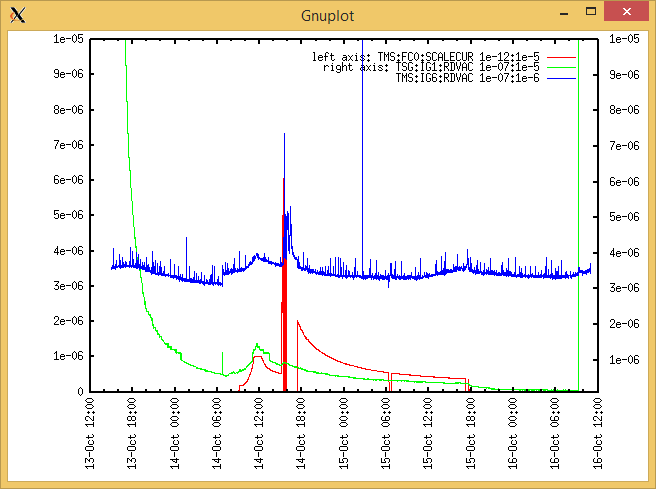
<http://isacwserv.triumf.ca/onlylocal/isactdata/save_restore/masscorr/2017-10-15-06-42%20SiC%2337>

Cooling Parameters

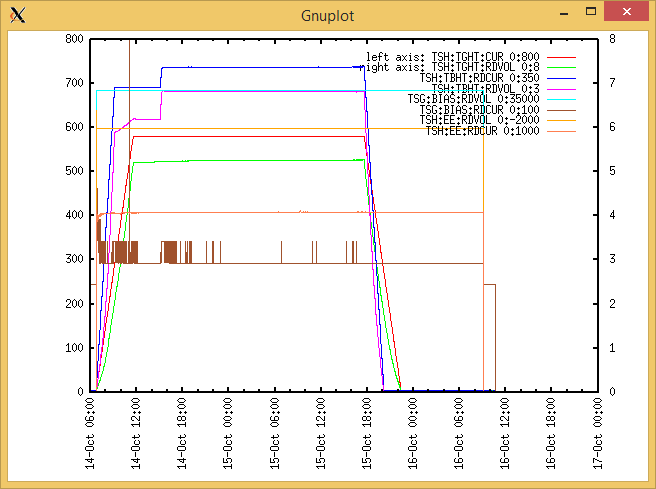


Overview Plots

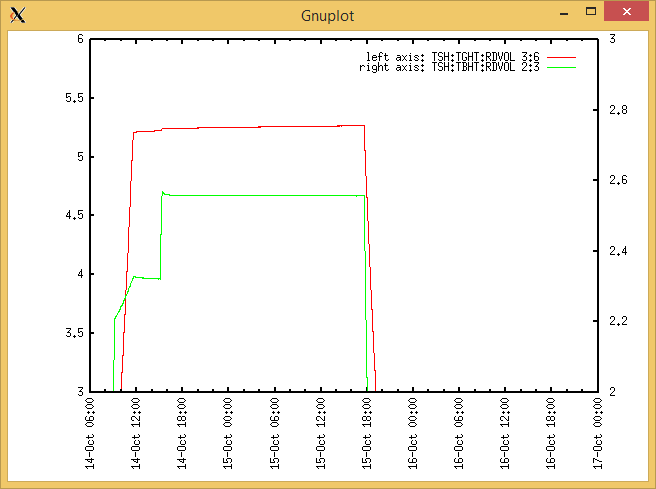
Vacuum and FC0



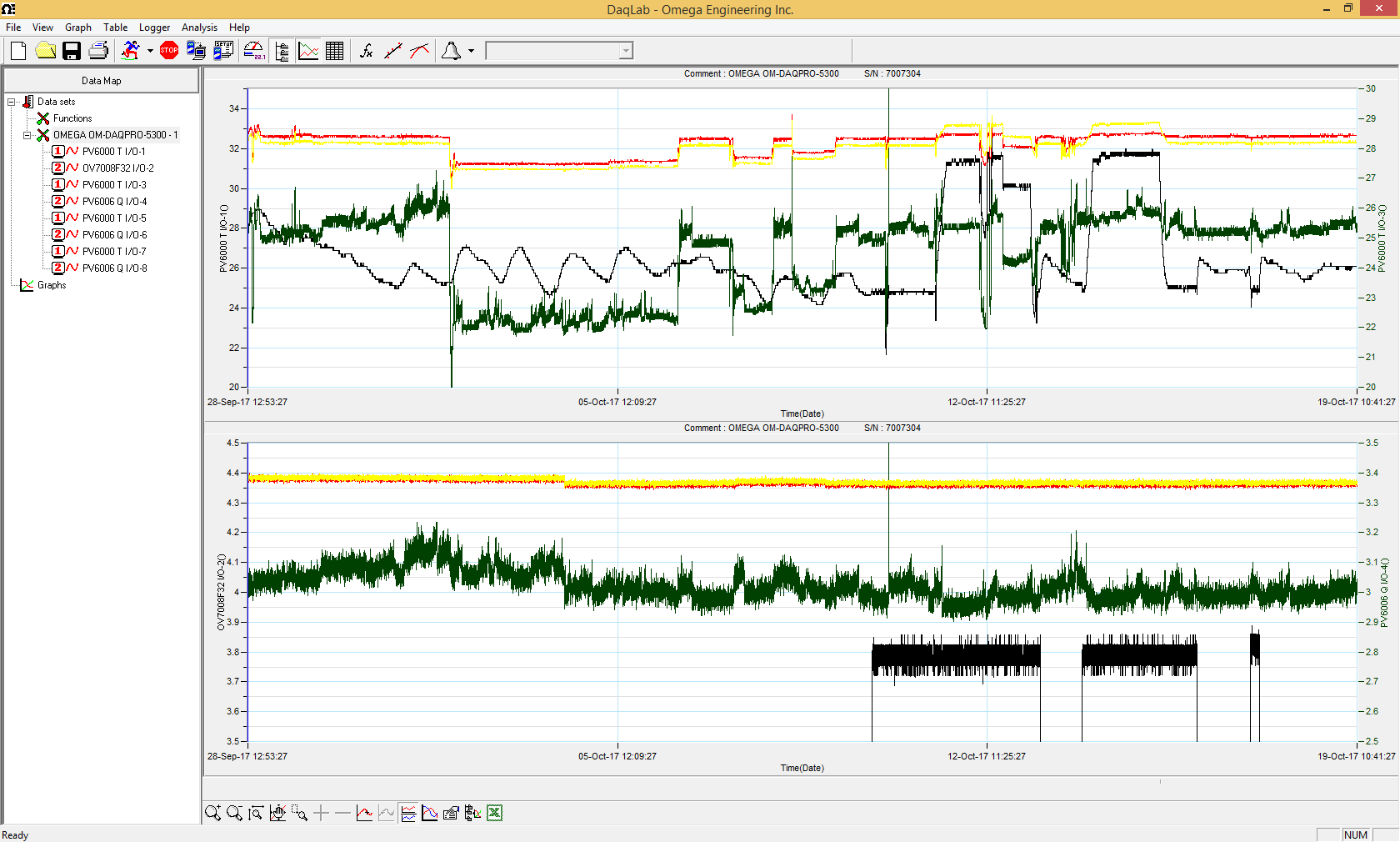
Heating, EE and BIAS



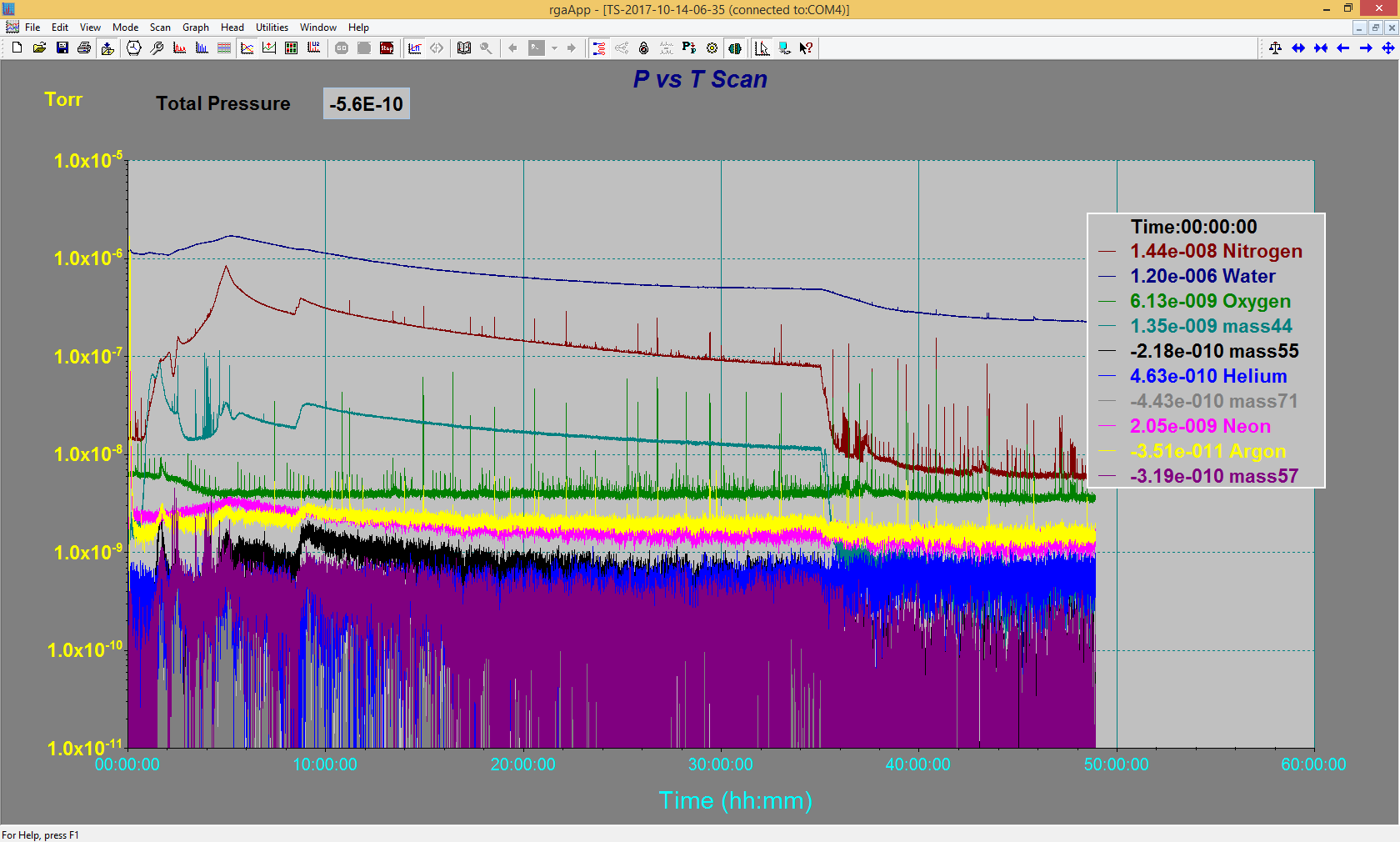
TGHT and TBHT Voltage



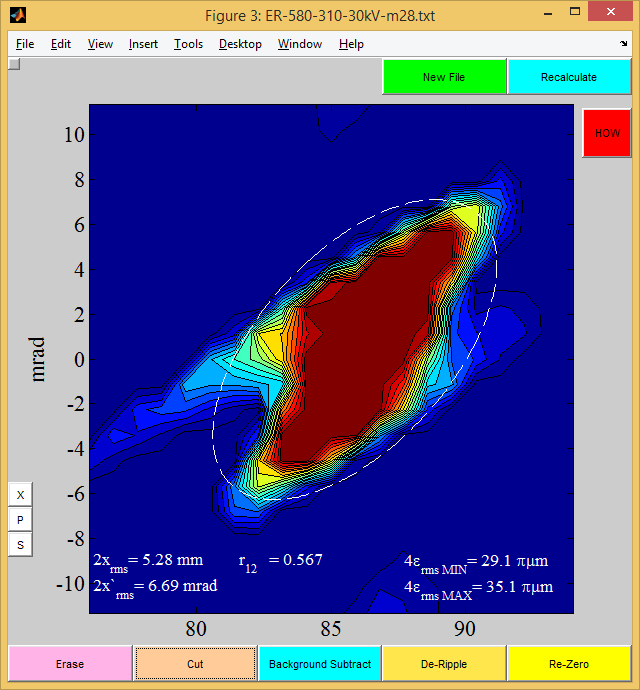
Flow and cooling water temperatures

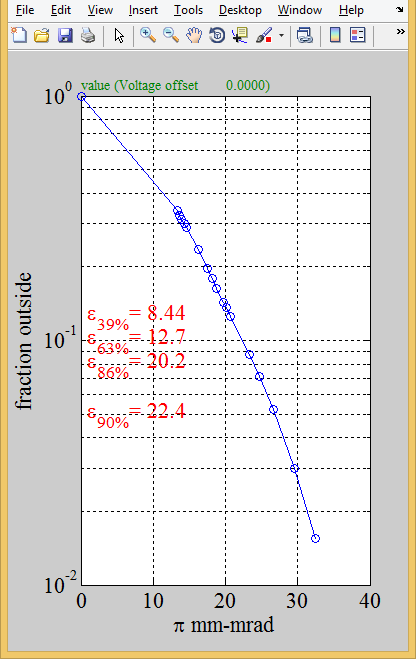


RGA

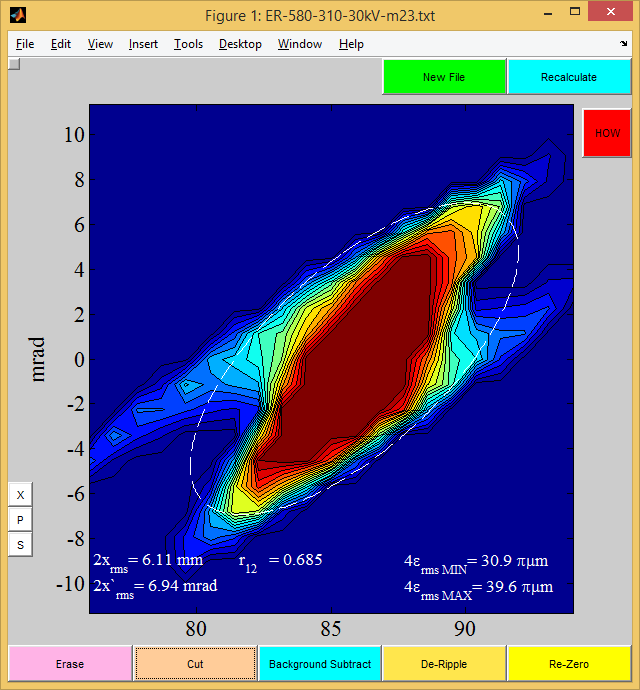


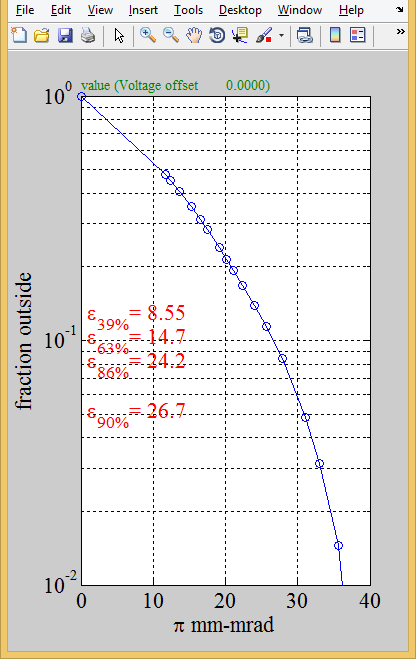
Emittance Scan





Mass 38





Mass 23