Conditioning Report

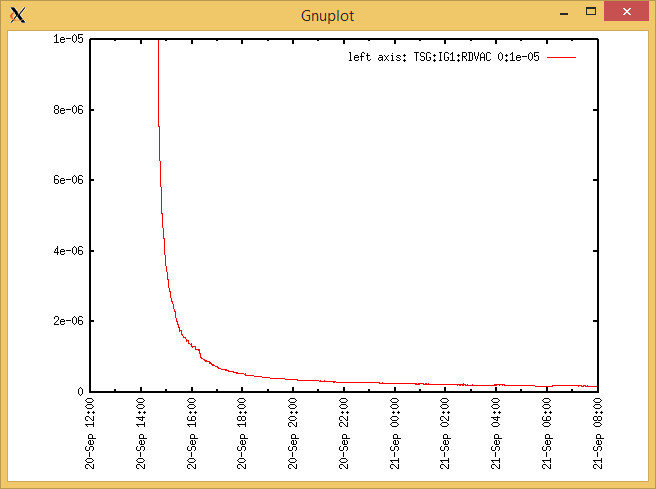
|  |  |  |
| --- | --- | --- |
| Target material and number | | Ta#54 |
| Target WO-SN | | 42218-10 |
| Operator name | | Aaron Schmidt |
|  | |  |
| Heating start date and time | | 2017-09-21 09:08 |
| BIAS | |  |
| Voltage [kV] | | 30 |
| Current [µA] | | 37 |
| Extraction Electrode (EE) | |  |
| Voltage [kV] | | 1.5 |
| Current [µA] | | 508 |
| TGHT | |  |
| Current [A] | | 581.7 |
| Voltage [V] | | 5.265 |
| TBHT | |  |
| Current [A] | | 208.4 |
| Voltage [V] | | 1.849 |
| FEBIAD ANODE | |  |
| Voltage [V] | | 50\* |
| Current [mA] | | 0\* |
| FEBIAD COIL | |  |
| Current [A] | | - |
| Voltage [V] | | - |
| Flow and Temperature HS + MSP | |  |
| Flow [lpm] | | 3.85 |
| Temperature increase [C] | | 8.0 |
| FC6 currents [A] | | 1.90e-07 |
| SIS | 7Li | 4.79-08 |
| FEBIAD | 20Ne | - |
| SIS | 23Na | 5.21e-010 |
| SIS | 39K | 1.34e-08 |
| SIS | 85Rb | 1.44e-08 |
| SIS | 133Cs | 1.38e-07 |
| Heating end date and time | | 2017-07-12 20:30 |

Comments

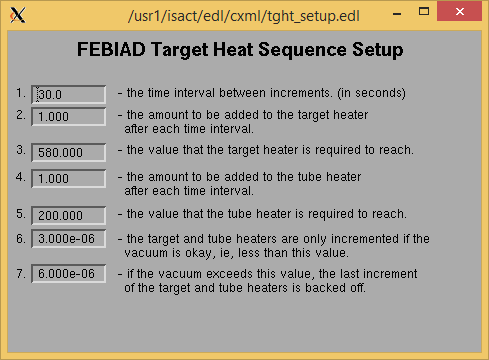
-FEBIAD Anode brought up to 50 V using FEBIAD TS controls. No current detected. No short detected during heating.

Plots

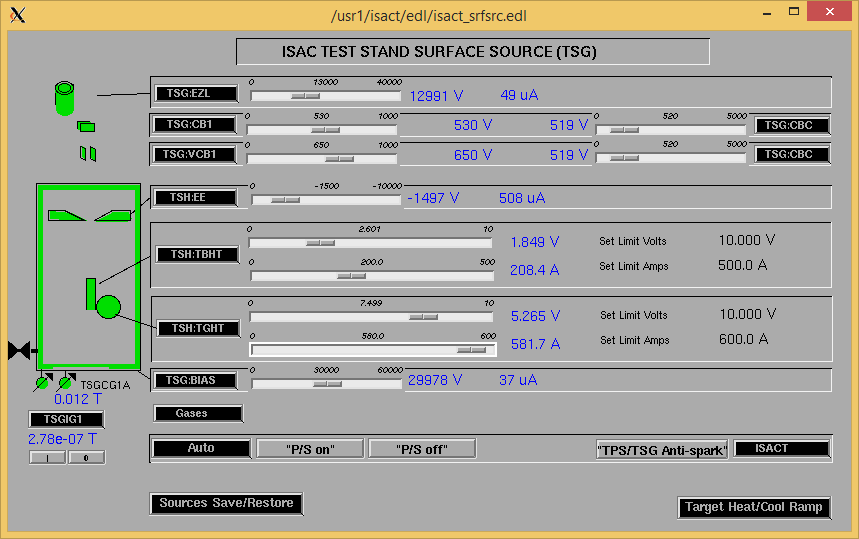
8h Vacuum Pump Down

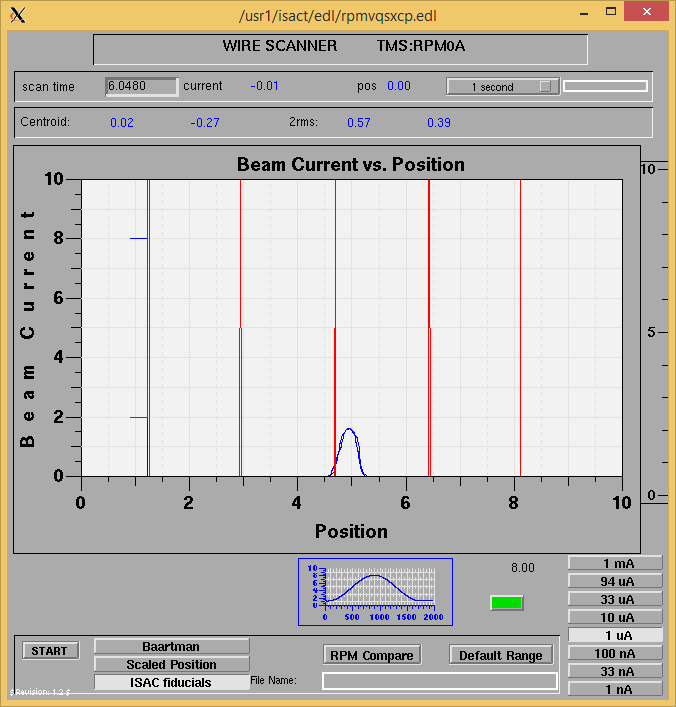


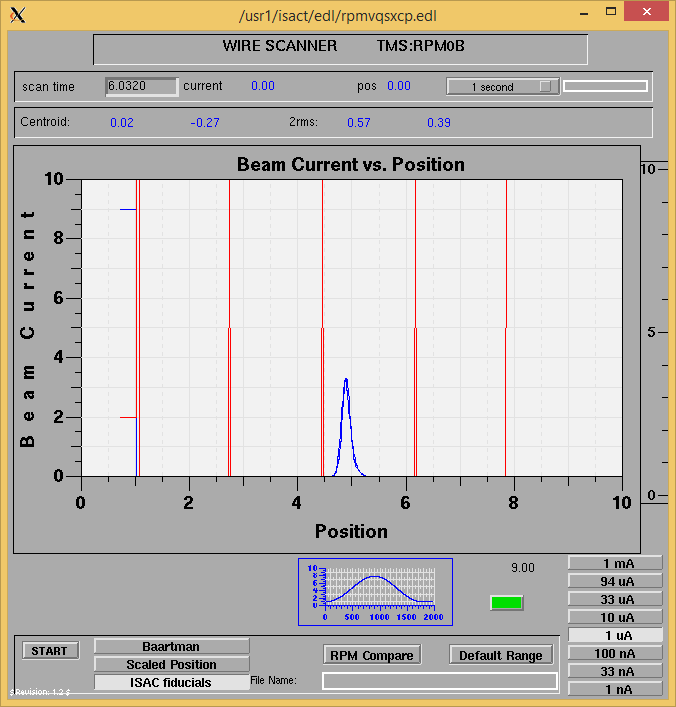
Target Heat Sequence Setup



Source Tuning

Wire Scanners RPM0A and RPM0B





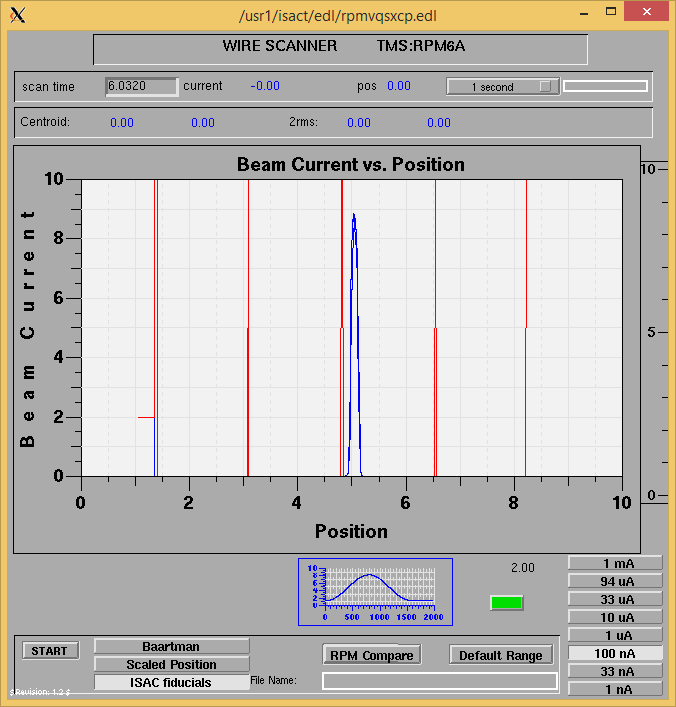
Optics Tuning

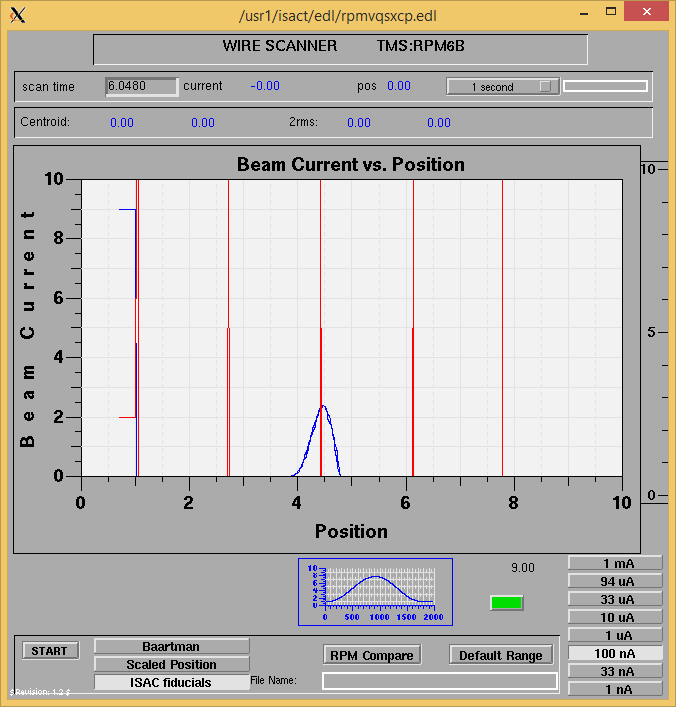


Mass 7

Wire Scanners RPM6A and RPM6B

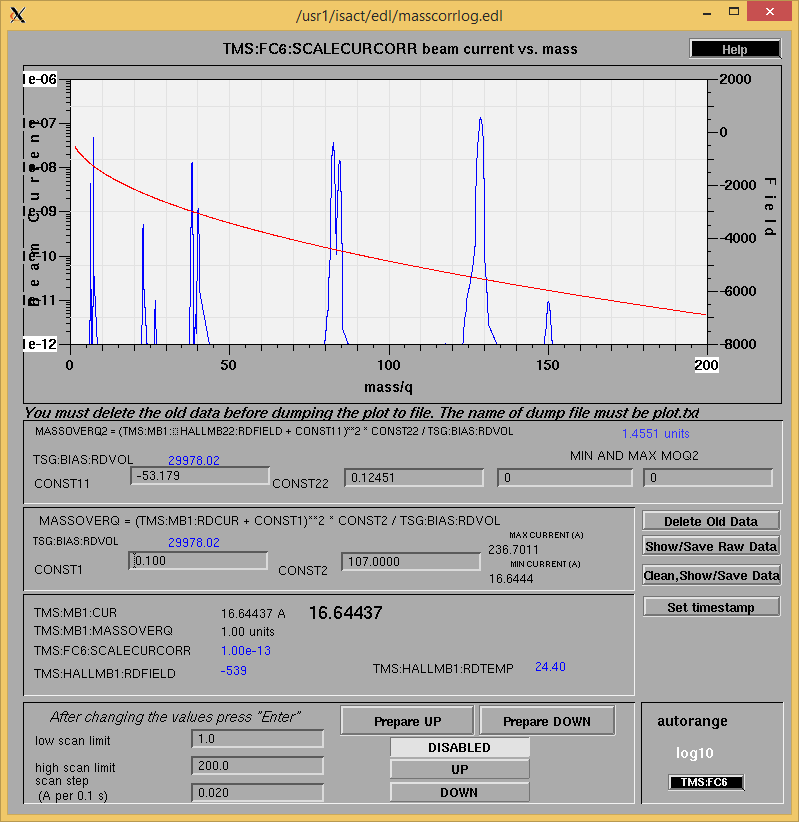
Mass 7





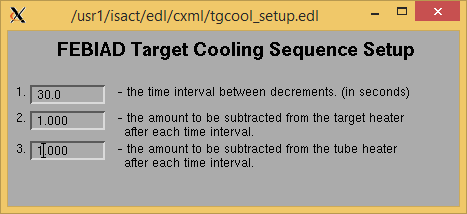
Mass 7

Mass Scan



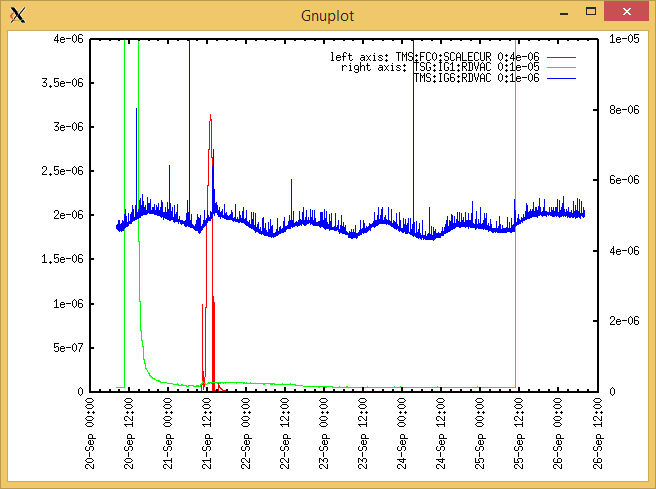
<http://isacwserv.triumf.ca/onlylocal/isactdata/save_restore/masscorr/2017-09-21-14-25%20Ta%2354>

Cooling Parameters

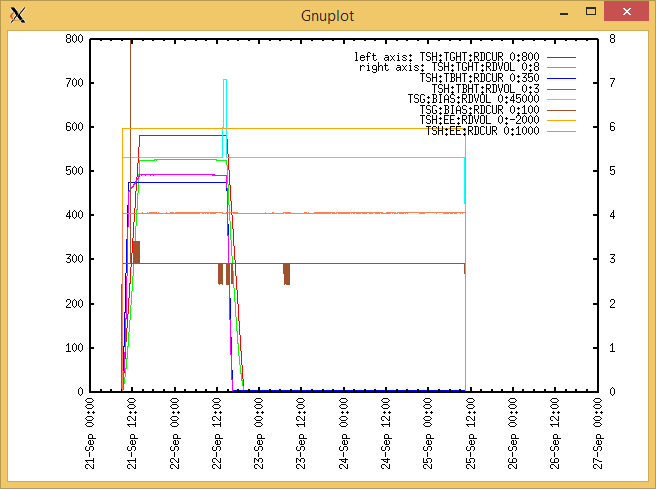


Overview Plots

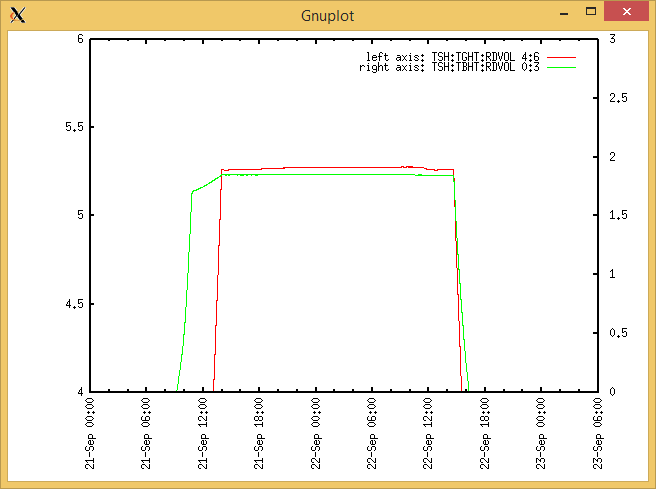
Vacuum and FC0



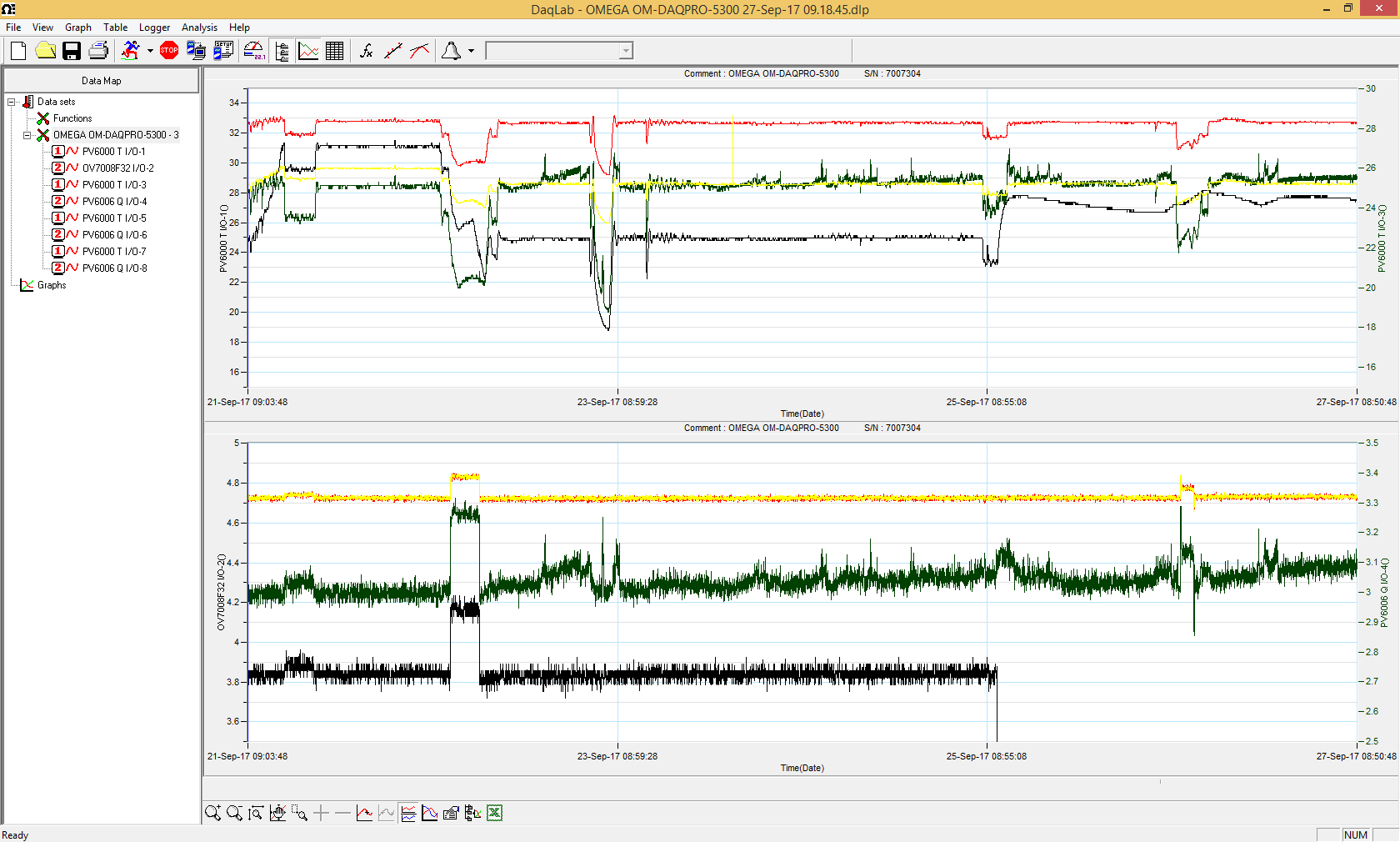
Heating, EE and BIAS



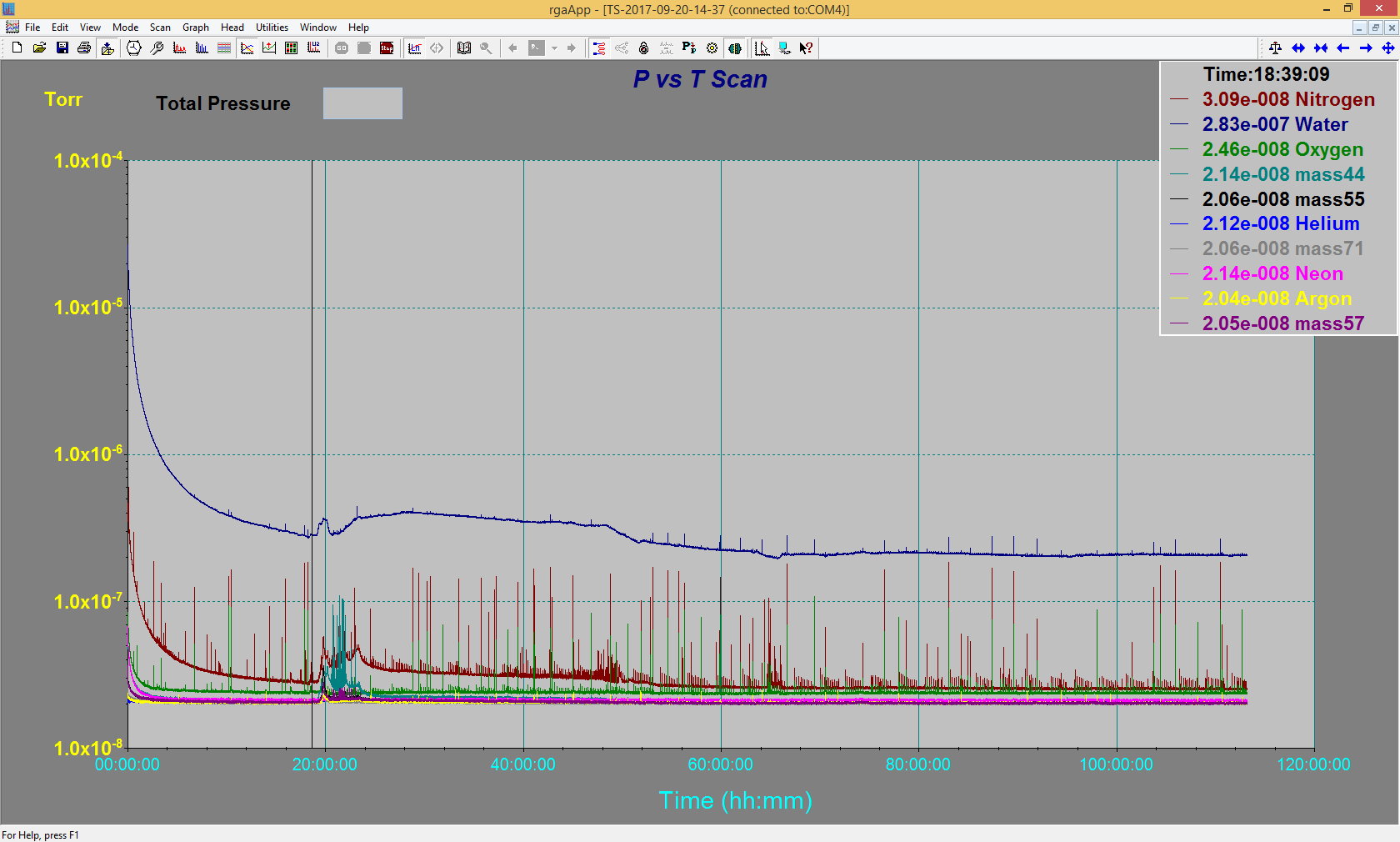
TGHT and TBHT Voltage



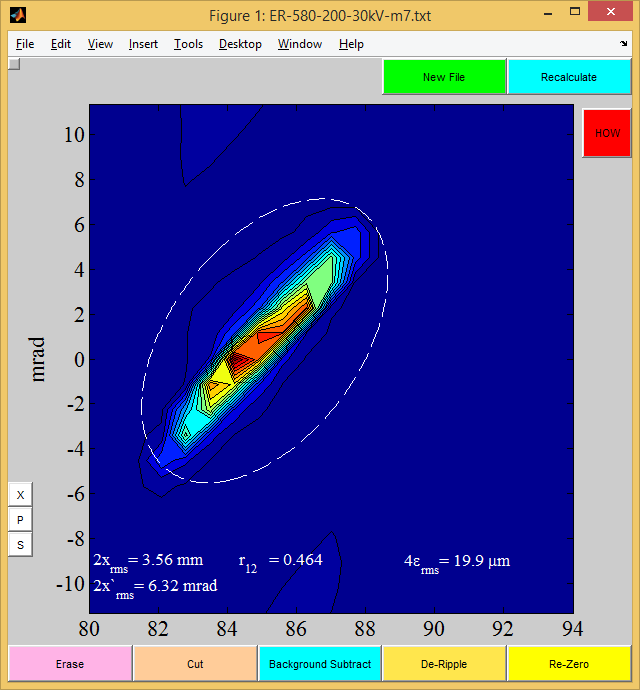
Flow and cooling water temperatures



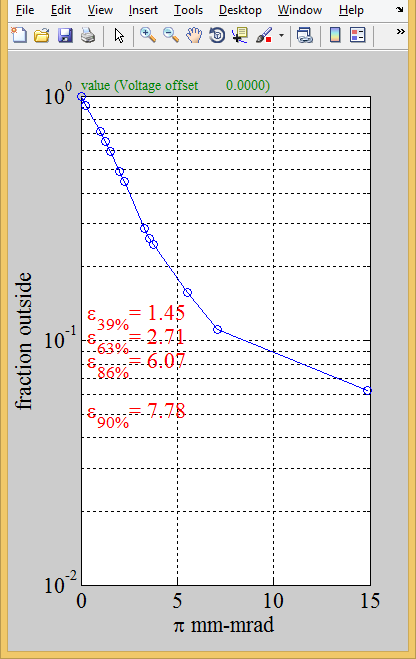
RGA



Emittance Scan



Mass 7



Mass 7