Conditioning Report

|  |  |
| --- | --- |
| Target material and number | Nb#08 |
| Target WO-SN | 38817-2 |
| Operator name | Aaron Schmidt |
|  |  |
| Heating start date and time | 2018-03-19 06:51 |
| BIAS |  |
|  Voltage [kV] | 30 |
|  Current [µA] | 40 |
| Extraction Electrode (EE) |  |
|  Voltage [kV] | 1.5 |
|  Current [µA] | 518 |
| TGHT |  |
|  Current [A] | 582 |
|  Voltage [V] | 5.6 |
| TBHT |  |
|  Current [A] | 208 |
|  Voltage [V] | 1.9 |
| FEBIAD ANODE |  |
|  Voltage [V] | - |
|  Current [mA] | - |
| FEBIAD COIL |  |
|  Current [A] | - |
|  Voltage [V] | - |
| Flow and Temperature HS + MSP | 21.6 |
|  Flow [lpm] | 3.82 |
|  Temperature increase [C] | 7.4 |
| FC6 currents [A] | 1.90e-06 |
|  SIS | 7Li | 7.73e-08 |
|  FEBIAD  | 20Ne | - |
|  SIS | 23Na | 2.32E-08 |
|  SIS | 39K | 5.32E-08 |
|  SIS | 85Rb | 1.62E-09 |
|  SIS | 133Cs | 3.96E-09 |
| Heating end date and time | 2018-03-21 11:00 |

Comments

\*TMS:Q5 & TMS:Q2 had issues during the run and required repair.

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/2018-03-20-13-10%20Nb%2308>

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



Controller Q5 & Q2 require repair. (Repaired after)