Conditioning Report

|  |  |
| --- | --- |
| Target material and number | SiC#40 |
| Target WO-SN | 42218-8 |
| Operator name | Aaron Schmidt |
|  |  |
| Heating start date and time | 2020-03-18 04:43 |
| BIAS |  |
|  Voltage [kV] | 30 |
|  Current [µA] | 10 |
| Extraction Electrode (EE) |  |
|  Voltage [kV] | 1.5 |
|  Current [µA] | 515 |
| TGHT |  |
|  Current [A] | 580.2 |
|  Voltage [V] | 5.697 |
| TBHT |  |
|  Current [A] | 229.0 |
|  Voltage [V] | 2.203 |
| FEBIAD ANODE |  |
|  Voltage [V] | - |
|  Current [mA] | - |
| FEBIAD COIL |  |
|  Current [A] | - |
|  Voltage [V] | - |
| Flow and Temperature HS + MSP | 25.76 |
|  Flow [lpm] | 5.0 |
|  Temperature increase [C] | 1.34 |
| FC6 currents [A] | 2.66E-07 |
|  SIS | 7Li | 1.25e-09 |
|  FEBIAD  | 20Ne | - |
|  SIS | 23Na | 1.40e-08 |
|  SIS | 39K | 6.24e-10 (Trace) |
|  SIS | 85Rb | - |
|  SIS | 133Cs | - |
| Heating end date and time | 2020-03-19 11:41 |

Comments

Plots

8h Vacuum Pump Down



Target Heat Sequence Setup



Source Tuning



Wire Scanners RPM0A and RPM0B





Optics Tuning



Wire Scanners RPM6A and RPM6B

Mass 7



Mass 7



Mass Scan



<http://isacwserv.triumf.ca/onlylocal/isactdata/save_restore/masscorr/2020-03-18-10-12%20SiC%2340>



Cooling Parameters



Overview Plots

Vacuum and FC0



Heating, EE and BIAS



TGHT and TBHT Voltage



Flow and cooling water temperatures

Wednesday, March 18, 2020, 04:40: Power / Sources on.

|  |  |  |
| --- | --- | --- |
|  **Device** | **Temp[C]** | **Flow[lpm]** |
|  HS + MSP | 24.42 | 4.04 |
|  TBHT | 24.39 | 6.72 |
|  COIL + EE | 24.21 | 1.63 |
|  TGHT |  24.30 | 5.76 |

Wednesday, March 18, 2020, 09:51:

|  |  |  |
| --- | --- | --- |
|  **Device** | **Temp[C]** | **Flow[lpm]** |
|  HS + MSP | 25.76 | 5.00 |
|  TBHT | 25.49 | 7.61 |
|  COIL + EE | 25.35 | 2.04 |
|  TGHT |  25.32 | 6.14 |

RGA

N/A, The communication chip is currently burnt out.

Emittance Scan



Mass 7



M7



Mass 23

Mass 38:



Mass 38