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| Traveler Title | VTA RF Cavity Test | | | |
| Traveler Abstract | Standard Data Acquisition for testing of cavities in the Vertical Test Area (VTA) | | | |
| Traveler ID | SRFRD-VTA-CAV-VTRF-RFD | | | |
| Traveler Revision | R1 | | | |
| Traveler Author | SUBA | | | |
| Traveler Date | 6-Mar-23 | | | |
| NCR Informative Emails |  | | | |
| NCR Dispositioners |  | | | |
| D3 Emails |  | | | |
| Approval Names |  |  |  |  |
| Approval Signatures |  |  |  |  |
| Approval Dates |  |  |  |  |
| Approval Title | Author | Reviewer | Project Manager |  |

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| References | List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, SOPs, etc), drawings, procedures, and facility related documents. | | | |
| See SOP posted at workcenter | **Automated Testing Spreadsheet:** | [Automated Cavity VTA RF Test Template Spreadsheet](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-98189/SpreadsheetTemplate%20for%20STP-CAV-VTRF_29Aug2016.xlsm) | [VTA Operation Procedures: CP-STP-CAV-VTA-OPS](https://jlabdoc.jlab.org/docushare/dsweb/View/Collection-160) |  |
| [VIEW Cavity Type Spreadsheet](https://pansophy.jlab.org/pansophy/Admin/VIEW_CavType.cfm) | **Manual testing Spreasheet:** | [Manual Cavity VTA RF Test Template Spreadsheet](https://jlabdoc.jlab.org/docushare/dsweb/Get/Document-82195/Cavity%20RF%20Test%20Template_013114.xlsx) |  |  |

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| Revision Note |  |
| R1 | Initial release of this Traveler. Based on USLARP-CAV-VTRF-RFD-R2 |

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| **Standard VTA RF Cavity Test Traveler** | | | | | | |
| **SETUP** | | | | | | |
| [[CAVSN]] <<CAVSN>> | | | [[TestOperator]] <<VTAOPS>> | | Test Purpose Comment (Include recent history note):  [[TestPurpose]] <<COMMENT>> | |
| [[TestDate]] <<TIMESTAMP>> | |
| [[Dewar]] {{3,4,5,6,7,8}} <<SELECT>> | |
| [[VTATSSN]] <<VTATSSN>> | |
| **Cavity Parameters**  [[CavityType]] <<TEXT>>  [[NumOfCells]] <<INTEGER>>  [[Freq]] <<FLOAT>>  [[CavLength]] <<FLOAT>>  [[Kappa]] <<FLOAT>>  [[EpVsEacc]] <<FLOAT>>  [[BpVsEacc]] <<FLOAT>>  [[GeoFactor]] <<FLOAT>> | | | | | | |
| **TEST** | | | | | | |
| [[PrimaryTemperature]] <<FLOAT>> | |  |  |  |  | | --- | --- | --- | --- | |  | **Voltage Reflected** | **Qo** | **Rad** | | **Initial Rad Onset > 0.03 mrem/hr** | [[VRadInit]] <<SCINOT>>  [[InitFEFree]] <<CHECKBOX>>  [[If FEFree checked, make VRad 0]] <<NOTE>> | [[QoRadInit]] <<SCINOT>> | > 0.03mrem/hr | | **Final Rad Onset = 0.03 mrem/hr** | [[VRadFinal]] <<SCINOT>>  [[FinalFEFree]] <<CHECKBOX>>  [[If FEFree checked, make VRad 0]] <<NOTE>> | [[QoRadFinal]] <<SCINOT>> | = 0.03 mrem/hr | | **Benchmark Field** | [[VBenchmark]] <<SCINOT>> | [[QoBenchmark]] <<SCINOT>> | [[RadBenchmark]] <<SCINOT>> mrem/hr | | **MAX Field** | [[VMax]] <<SCINOT>> | [[QoMax]] <<SCINOT>> | [[RadMax]] <<SCINOT>> mrem/hr | | | | | | |
| [[PrimaryFrequency]] <<FLOAT>> |
| **RESULTS** | | | | | | |
| **Manual Testing Data Files:**  [[ManualSpreadsheet]] <<FILEUPLOAD>> | | | | [[LorentzCoeff]] <<FLOAT>>  [[ResultsComment]] <<COMMENT>> | | |
| **Automated Testing Data Files:**  [[RawDataFile]] <<FILEUPLOAD>>  [[ProcessedSpreadsheet]] <<FILEUPLOAD>> | | | |
| **Graphs:** | | | | | | |
| [[QvsE]] <<FILEUPLOAD>> | | [[FvsE2]] <<FILEUPLOAD>> | | [[RADvsE]] <<FILEUPLOAD>> | | [[OtherFiles]] <<FILEUPLOAD>> |