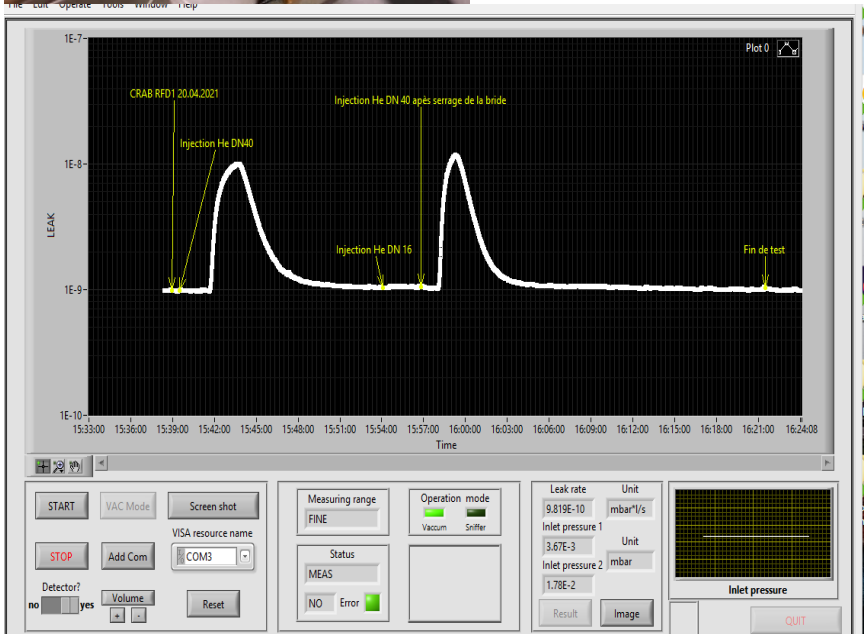
Leak in RFD1-DC



HL-LHC follow-up/ Couplers

- HOM couplers: drawing folders to be Released: URGENT!

RFD HOM Couplers	CDD number	Drawing folder
H-HOMC feedthrough	LHCACFHC0324	2266941
H-HOMC	LHCACFHC0151	2302298
V-HOMC	LHCACFHC0322	2271762
Field antenna	LHCACFHC0321	2266953

- Gasket drawings for HHOM and Pick-up/VHOM. New version created with material CuOFE, to be released.

Drawing ref.	Status	
LHCACFHC0259	Released	DN40 special
LHCACFHC0261	Released	DN100

HL-LHC follow-up/ MTF

- Missing reports in MTF:

	Docs to be uploaded in MTF
H-HOMC	RF measurements report (test box) (James). EDMS 2506309
H-HOM	Leak test report HCACFHC007-CR000002
VHOM 45	Leak test report HCACFHC006-CR000004
Field antenna 47	Leak test report HCACFPU004-CR000004
HHOM feedthrough	Leak test report – No reference on the piece?

Equipment Identifier: **HCACFHC007-CR000001**
Other Identifier: None
Description: **CERN RFD H-HOM Coupler Prototype**

167	()	BCP (*)	Done	Ok
170	()	Leak test	Done	Ok
175	()	RF measurement	Pending	
180	()	Conditioning to enter in clean room	Done	Ok

HL-LHC follow-up/ MTF

- Create a NCR for the RFD2_DC adaptor. URGENT!
  - Template for NCR: EDMS 1501109
- Reports for RFD2-DC and RFD1-DC MTF:
  - Step 55 Installation adaptors and verification
  - Step 65 High order mode measurement at warm
  - Step 75 High order mode measurement at cold

Equipment Identifier: **HCACFDC004-CR000002**
Other Identifier: None
Description: **RFD Dressed Cavity Prototype CERN**

Main | Made of | Equipment data | Manufacturing | Operation | Documents | History | Map

Actions : Add extra step

Workflow Diagram

No workflow diagram is defined for this equipment

Workflow Steps

Step	R/E	Other name	Description	Status	Result	NC	Last Repeated
5		()	Transfer of the JC to the Clean Room	Done	Ok		
10		()	HPR	Done	Ok		
15		()	Clean room assembly: HOMs, pick-up field antenna, etc	Done	Ok		
20		()	Step 20 (TE-VSC) - Leak Test after installation of antennas (ISO 4)	Done	Ok		
25		()	Step 25 (TE-VSC) - RGA Analysis of cavity vacuum (ISO 4)	Done	Ok		
30		()	Preparation for Cold Test	Done	Ok		
35		()	Step 35 (TE-VSC) - Leak Test (on the insert)	Done	Ok		
40		()	Step 40 (TE-VSC) - RGA Analysis (on the insert)	Done	Ok		
45		()	Step 45 (TE-VSC) - Bake-out	Cancelled	Cancelled		
50		()	Step 50 (TE-VSC) - RGA Analysis after bake-out	Cancelled	Cancelled		
55		()	Installation 25/50 Ohm adaptors and verification	Pending			
60		()	Sensors location and verification, freq. measurement and TDR verification	Done	Ok		
65		()	High order mode measurements at warm	Pending			
70		()	Step 70 (TE-VSC) - Continuous RGA Analysis during cool down	Cancelled	Cancelled		
75		()	High order mode measurements at cold	Pending			
80		()	RF Measurement at cold	Pending			
85		()	Step 85 (TE-VSC) - Continuous RGA Analysis during warm-up	Cancelled	Cancelled		
90		()	Step 90 (TE-VSC) - RGA analysis of cavity vacuum after cold phase	Pending			
95		()	Slow cavity venting N2 on insert	Done	Ok		
100		()	RF measurements after cold phase	Pending			

Equipment Identifier: **HCACFDC004-CR000001**
Other Identifier: None
Description: **RFD Dressed Cavity Prototype CERN**

Main | Made of | Equipment data | Manufacturing | Operation | Non-conformities | Documents | History | Map

Actions : Add extra step

Workflow Diagram

No workflow diagram is defined for this equipment

Workflow Steps

Step	R/E	Other name	Description	Status	Result	NC	Last Repeated
5		()	Transfer of the JC to the Clean Room	Done	Ok		
10		()	HPR	Done	Ok		
15		()	Clean room assembly: HOMs, pick-up field antenna, etc	Done	Ok		
20		()	Step 20 (TE-VSC) - Leak Test after installation of antennas (ISO 4)	Pending			
25		()	Step 25 (TE-VSC) - RGA Analysis of cavity vacuum (ISO 4)	Pending			
30		()	Preparation for Cold Test	Done	Ok		
35		()	Step 35 (TE-VSC) - Leak Test (on the insert)	Pending			
40		()	Step 40 (TE-VSC) - RGA Analysis (on the insert)	Pending			
45		()	Step 45 (TE-VSC) - Bake-out	Cancelled	Cancelled		
50		()	Step 50 (TE-VSC) - RGA Analysis after bake-out	Cancelled	Cancelled		
55		()	Installation 25/50 Ohm adaptors and verification	Pending			
60		()	Sensors location and verification, freq. measurement and TDR verification	Done	Ok		
65		()	High order mode measurements at warm	Pending			
70		()	Step 70 (TE-VSC) - Continuous RGA Analysis during cool down	Cancelled	Cancelled		
75		()	High order mode measurements at cold	Pending			
80		()	RF Measurement at cold	Pending			
85		()	Step 85 (TE-VSC) - Continuous RGA Analysis during warm-up	Cancelled	Cancelled		
90		()	Step 90 (TE-VSC) - RGA analysis of cavity vacuum after cold phase	Pending			
95		()	Slow cavity venting N2 on insert	Pending			
100		()	RF measurements after cold phase	Pending			

HL-LHC follow-up

- Documents needed for UK:
  - James: Post transport qualification of HOMs. Document to be uploaded in EDMS 2507161
  - Sebastian: instruction for assembly of adaptors on the cavity in UK.
- Eric: Engineering spec for FPC. to be finalized before starting fabrication.
- Eric/James: CRAB CAVITY HOMs- DETAILS and QUALIFICATIONS : https://edms.cern.ch/document/2488213/0.9 URGENT!
- Eric: Comments to WP4 Cryomodule engineering spec :EDMS 2043014
- Antoine/ Agibail: To upload documentation in EDMS and MTF for the SPS RFD FPC
- New request (email 07/04 from Luca Dassa): To provide the 3D model of HOM coupler for DQW cavity to Luca Dassa to verify if we can use material in stock at CERN with lower yield strength

HL-LHC follow-up/ AUP

- Documents from AUP uploaded in EDMS to be reviewed by WP4, related to couplers:

AUP ANCILLARIES				
AUP DOCUMENTATION	REFERENCE	N.EDMS	VERSION	STATUS
RFD HHOM Suppressors				
Manufacturing drawings				
Manufacturing drawings H-HOM suppressor		2402596		In work- to be reviewed by CERN
Manufacturing drawings HHOM Feedtrhough		2414230		In work- to be reviewed by CERN
Manufacturing procedures				
AUP Acid Etching at the chemical Fume Hood procedure		2365955		In work- to be reviewed by CERN
AUP cavity components and parts degreassing procedure		2365964		In work- to be reviewed by CERN
High Sensitivity Vacuum leak check requirements		2407362		In work- to be reviewed by CERN
Manufacturing inspection plan : RFD cavity Horizontal HOM Damper		2379706		In work- to be reviewed by CERN
Inspection test procedure				
				Not received
Qualifications				
				Not received
RFD VHOM Suppressors				
Manufacturing drawings				
Manufacturing drawings V-HOM suppressor		2402597		In work- to be reviewed by CERN
Manufacturing procedures				
AUP Acid Etching at the chemical Fume Hood procedure				In work- to be reviewed by CERN
AUP cavity components and parts degreassing procedure				In work- to be reviewed by CERN
High Sensitivity Vacuum leak check requirements				In work- to be reviewed by CERN
Manufacturing inspection plan : RFD cavity vertical HOM Damper		2419694		In work- to be reviewed by CERN
Inspection test procedure				
				Not received
Qualifications				
				Not received
RFD Pick-up Field Antenna				
Manufacturing drawings				
Manufacturing drawings Pick-up Field Antenna		2402598		In work- to be reviewed by CERN
Manufacturing procedures				
Manufacturing inspection plan : RFD cavity field antenna		2419695		In work- to be reviewed by CERN
AUP Acid Etching at the chemical Fume Hood procedure		2365955		In work- to be reviewed by CERN
AUP cavity components and parts degreassing procedure		2365964		In work- to be reviewed by CERN
High Sensitivity Vacuum leak check requirements		2407362		In work- to be reviewed by CERN

HL-LHC follow-up/ AUP

- Nuria: Share MIP with AUP:
  - HHOM : done.
  - VHOM : waiting for MME to modify the drawing ref.
  - Field antena :waiting for MME to modify the drawing ref.
  - Feed through HHOM :waiting for MME to modify the drawing ref.