

Cavity status; recent KEK activities

(1) HIT-001, TOS-001, IHEP_01 ; no HOM 9 cell cavities field measurements

HIT-001: 1st VT 35MV/m @ Q0=0.65E10 June 24,2010

TOS-001: 1st VT 8.6MV/m @ Q0=0.41E10 July 08,2010

IHEP_01: 1st VT 20MV/m @ Q0=0.16E10 July 01,2010

(2) KEK-JLAB collaboration; JLAB LG-01 for local grinding

2nd local grinding and 30um EP finish were over.

Then molding again and found that it became more smooth & better surface.

After several 5um EP & water rinse study,

brown stain problems has been suppressed.

(Later, I will summarize the rinsing study for suppression of brown stains in 9-cell cavity.)

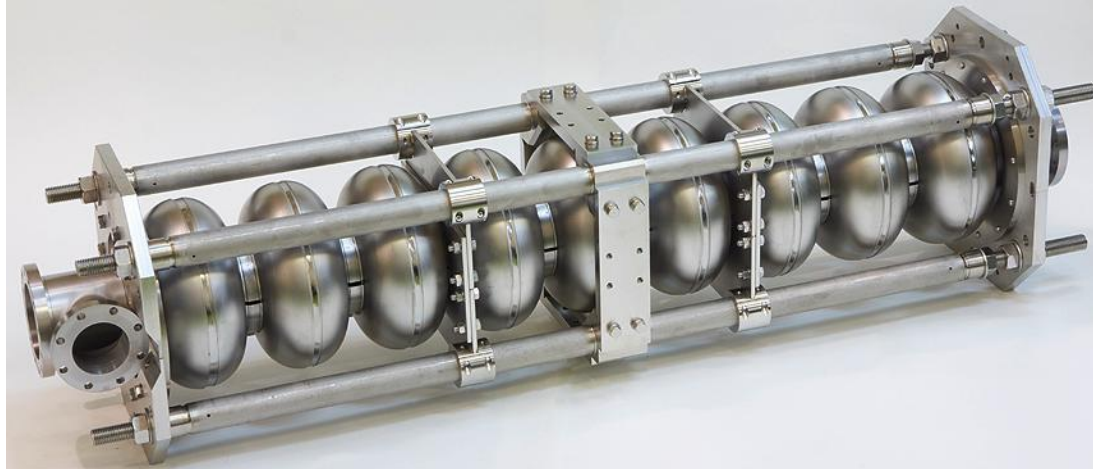
The cavity was sent back to JLAB, now in Narita airport.

(3) KEK-FNAL collaboration; on RI-026 and AES-001

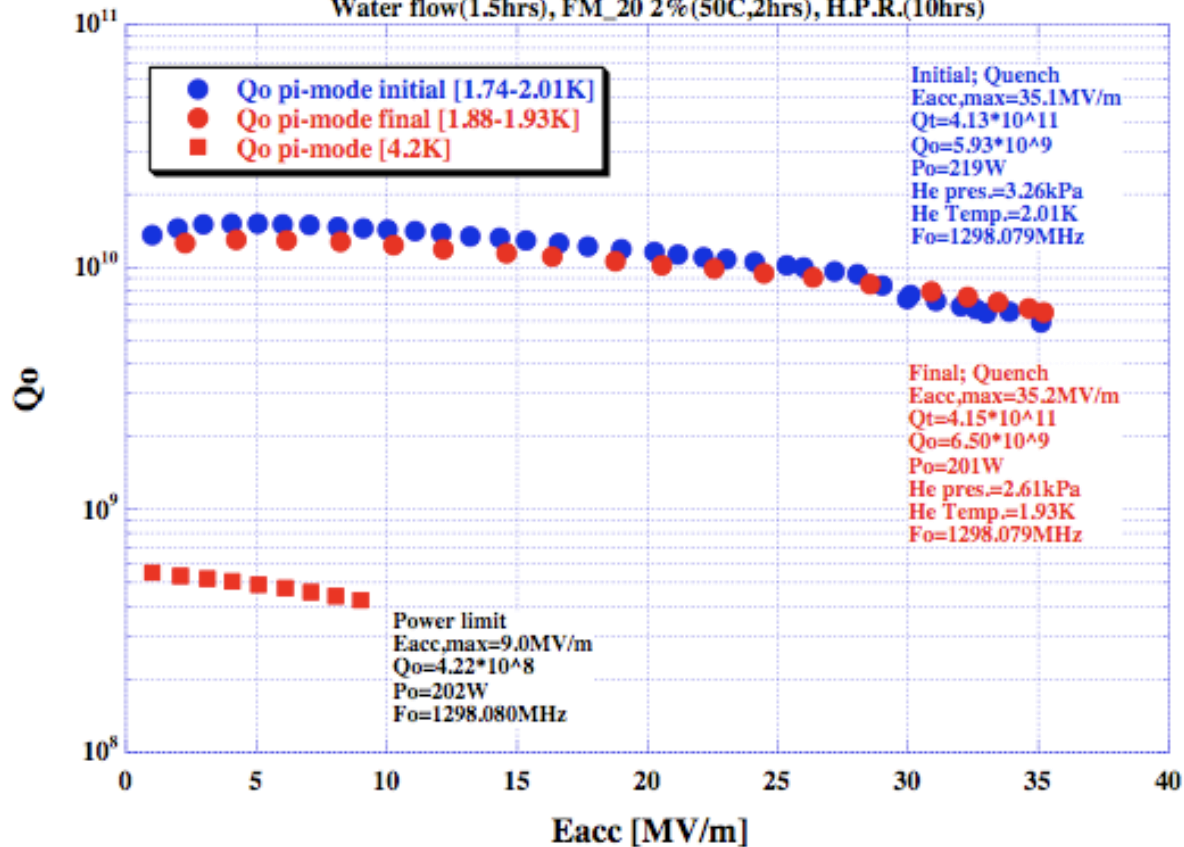
These cavities were borrowed for the tuning machine commissioning, and local grinding studies.

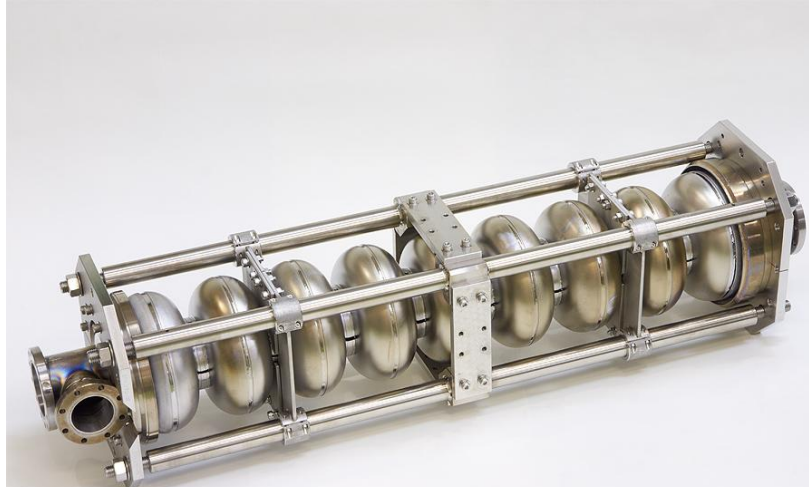
The cavities were arrived at STF in last week,

and under preparation of surface inspection as received state.

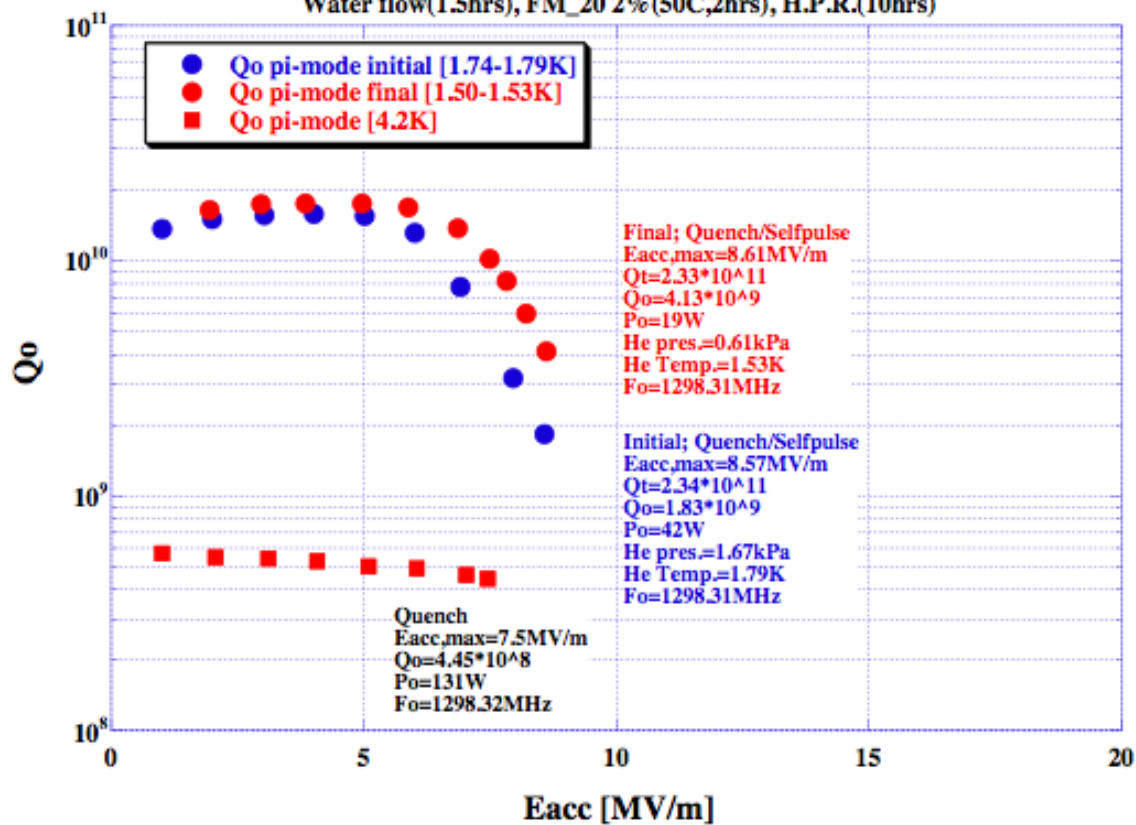


HITACHI 9cell Cavity HIT_001 [Without HOM Couplers]
 1st. Vertical Test 06/24/2010
 Low Current Density EP-II(20 μ m) with N2 gas,
 Water flow(1.5hrs), FM_20 2%(50C,2hrs), H.P.R.(10hrs)



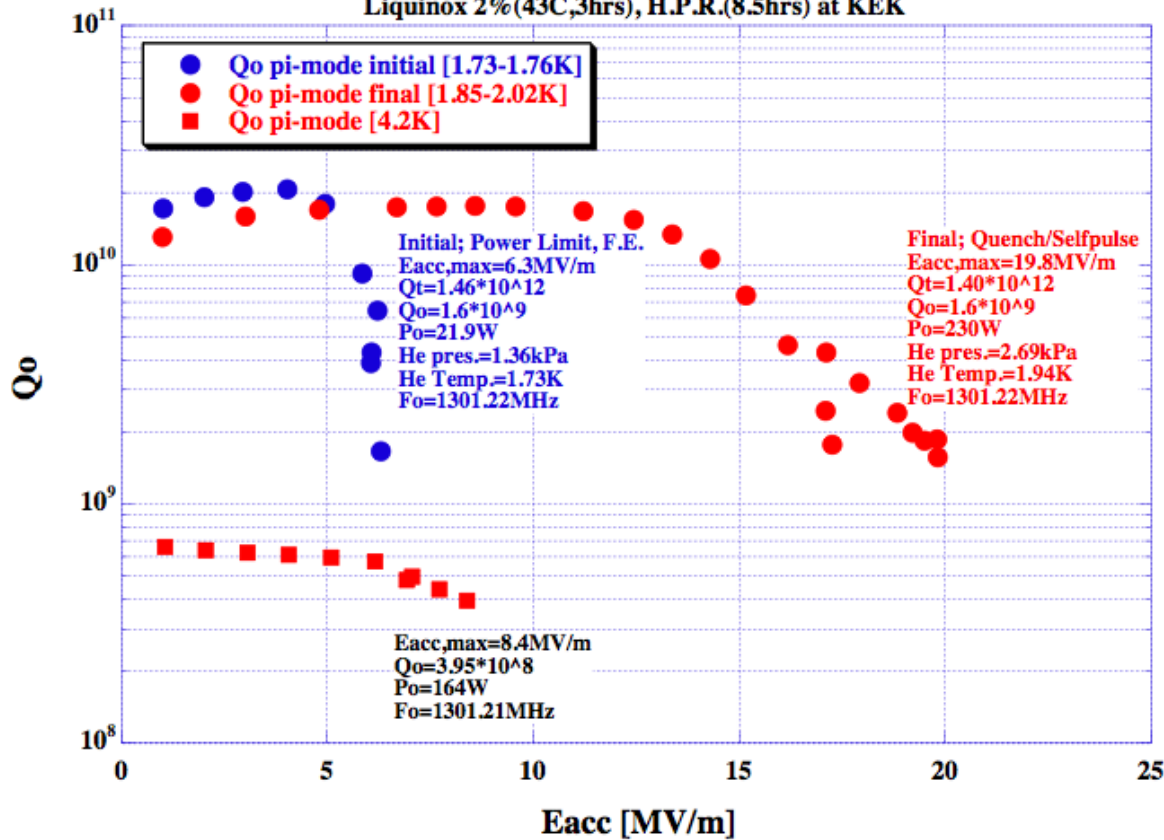


TOSHIBA 9cell Cavity TOS_001 [Without HOM Couplers]
 1st. Vertical Test 07/08/2010
 Low Current Density EP-II(20 μ m) with N2 gas,
 Water flow(1.5hrs), FM_20 2%(50C,2hrs), H.P.R.(10hrs)





IHEP 9cell Low Loss Cavity (without HOM Couplers)
 IHEP_01 1st. Vertical Test 06/30-07/01/2010
 Surface Treatment at IHEP
 Liquinox 2% (43C,3hrs), H.P.R.(8.5hrs) at KEK



CBP, anneal, BCP, pre-tuning at IHEP,

degreasing, HPR, baking at KEK,