Answers to MEA\_MDP\_tests\_ISAS\_Dec\_2017.pptx are below:

p6:

I confirmed such empty spaces and found a bug (wrong allocation in the array) in the codes. The bug is easy to be fixed and I will do it soon.

p9:

The products include PADs for four energies, In "171215\_14b.mm" (M-mode products derived from 171215\_14\_0000.log), the products are expressed by "Et-PAP[4en][16ch](2s) x2".

Width and energy numbers are indicated by INF(4s), which are initially (0 9 15 21 27).

p11&12

I am still checking it. Looks such a function did not started. I will answer this later.

[S/C potential of 2V]

According to the sensor HK, MEA2 received the command of 'StpEnMd\_ON 0x1e'. The MDP software HK also shows the S/C potential mode was ON. Looks this function by the commands of MEA2\_POT\_MODE and MEA2\_POT\_PARAM worked well, but INF(4s) in the mission packets kept the stopping energy sweep number of 0x20. 2V is abit small for such testing but I do not clearly understand it. I will investigate this problem by using the MDP EM in ISAS and will fix it.

The wrong parameters were sent in the last Dec. test. Pot param 0x0000 0x08cc (sent the last Dec.) might be negative S/C potential, so the number of 0x20 is shown. When I sent pot param 0x07ff 0x0aff (corresponding 38V) in the today’s test using the MDP EM and MEA2 board, the number around 20 was shown (please see 180511\_21\_0000.log).

p13&14:

VMM(red) and VML(blue) look similar and reasonable. The figure compares only VM(0,0). Please see \*.lm (L-mode products) and \*.mm (M-mode products) for the details.



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I made read\_dat\_mdp3\_MEA2.c and execute, for example, ./read\_dat\_MEA2b.exe 171215\_14\_0000.log 171215\_14b for deriving \*.lm, \*.mm and \*.hm from 171215\_14\_0000.log.