

From: <oeitech@fcc.gov>

Date: Thu, Jun 14, 2018 at 9:10 AM

Subject: Response to Inquiry to FCC (Tracking Number 528198)

To: deanna.zakharia@motorolasolutions.com, antonio.faraone@motorolasolutions.com,
frank.korinek@motorolasolutions.com

Inquiry on 06/11/2018 :

Inquiry:

Previous email correspondence entered here by FCC Staff.

05/14/2018

Attached is the slide deck with the information taken pertaining to the variability testing. Please review as soon as possible and let us know when we can have a conference call with you and your team.

Unfortunately now due to some travel for our team here are the next times we are available to talk.

May 22 all day

May 30 through June 1

Please let us know so we can book the agreed slot. The new mobile, which is just a high power of the last mobile you approved in Dec of 2016, is in the labs currently testing. Our ship date is mid August 2018. Its urgent that we come to an agreement so we can add in any additional tests required if after reviewing the data you feel that "variability tests" are necessary.

Thanks again for your attention to this. Look forward to speaking with you soon.

06/07/2018

Thanks to you and your staff for your attention to our issues related to MPE "variability" testing. As Deanna is out of town this week, I am forwarding to you our response to the approach that you recently outlined (see attachment). Copied on this response is Frank Korinek from our Washington D.C. Government Affairs team. Going forward, Frank will be focusing our FCC efforts on these matters.

Product certification for our newest product is at a critical stage. We are now in the process of taking measurements and conducting simulations so we would very much appreciate if you could let us know as soon as possible (before the middle of next week?) if you have any further questions with our comments and further recommendations. As always, we would be happy to get on the phone with you and your staff if there are any lingering issues. Hopefully, you will agree that such further conversations at this time are not necessary.

FCC response on 06/11/2018

After some additional consideration, we've updated our proposed test plan in order to avoid any misinterpretation or confusion in the future.

In previous text, "frequency" means the frequency channels in a frequency band or part of a band if a trimmed antenna used.

A particular antenna configuration should encompass the individual frequency band(s) or part of a band if a trimmed antenna is used, in conjunction with each mounting location applicable to an antenna; i.e., each combination is an antenna operating configuration that should be considered for testing separately. When antenna trims are taken into consideration, it should mean each trim is considered separately and tested independently for the portions of the frequency band(s) that are applicable (not combining the bands and configurations to further reduce the testing).

Measurement results should mean measured MPE that may be spatially averaged (or using peak value if desired) and scaled according to maximum tune-up tolerance.

Pending your agreement with revised text (see attached), no other action is necessary at this time.

---Reply from Customer on 06/13/2018---

Thank you for your prompt reply. Below is our response to your question on trimmable antenna testing:

MSI acknowledges this requirement for trimmable antennas under the variability test procedure outlined. We understand this to require MPE testing for each test frequency only with the proper trim for that frequency (as specified in the installer guide). The configuration of each frequency with the proper trim will be MPE-tested at the roof, trunk-side, trunk-back positions. However, if the antenna is a multi-band antenna, single or multiple trims will be tested for each frequency under the variability test procedure. Radio installers will be instructed to use the trim chart coming with the trimmable antennas to optimize performance at the assigned operation channel(s).

Please acknowledge that our understanding is the same as yours.

regards
Deanna

FCC response on 06/14/2018

Acknowledged.

Attachment Details:

[MSI Response 20180607](#)

[MPE Variability - OET Test Procedure](#)

[MPE Variability 20180514](#)

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