



Elliott Laboratories Inc.  
www.elliottlabs.com

684 West Maude Avenue  
Sunnyvale, CA 94086-3518

408-245-7800 Phone  
408-245-3499 Fax

Re: FCC ID I7JA001SC42

Applicant: Electricity Metering, ABB Inc

Correspondence Reference Number: 24637

731 Confirmation Number: EA539483

1.) Please describe how you are sending digital information over an AMPS analog system. This information should be included in your Operational Description. You submitted one line item for this application, AMPS requires two line items 40K0F8W and 40K0F1D. Please explain.

**As shown in the block diagram. The modem control handles the call setup (inbound or outbound). The digital data from the meter will be modulated by the modem data pump depending on the V.xx standard. (FSK, DPSK, or QAM), and feed the analog signal (less than -12dBm) directly to the AMPS radio. This modem analog signal will be modulated and transmitted through AMPS voice channel since it is analog signal. For a system point of view, the cellular modem can only transmit/receive digital data to/from the remote end (host). There is no voice accessibility at all.**

**We had trouble entering the two-emission designator on the 731, since only one line item was only available in the 731 to enter one emission designator. If possible, can the missing emission designator be entered? Thanks.**

2.) Your Tune Up procedure indicates that this device can transmit 4.0 watts. Please explain.

**Please refer to page 14 of the new uploaded Theory of Operation label “CRM4250, 4200\_Theory\_of\_Operation”. The applicant is using the CRM 4200 module.**

3.) Please provide a photo of the external antenna connector for this device.

**Photo has been uploaded.**

4.) Please submit conducted spurious emissions data.

**Data has been uploaded label “Transmitter”**

5.) Please submit emission mask plots.

**Data has been uploaded label “Transmitter”**

6.) Please provide emission mask for Supervisory Audio Tone plots.

**Data has been uploaded label “Transmitter”**

7.) Please submit modulation characteristic plots.

**Data has been uploaded label “Transmitter”**

8.) Please submit modulation limiting plots.

**Data has been uploaded label “Transmitter”**

9.) Please submit audio filter response plots.

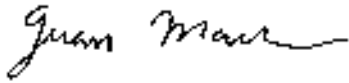
**Data has been uploaded label “Transmitter”**

10.) Please submit audio frequency response plots.

**Data has been uploaded label “Transmitter”**

If you need further information or clarification please do not hesitate to contact us via [doc@elliottlabs.com](mailto:doc@elliottlabs.com).

Regards

A handwritten signature in black ink that reads "Juan Martinez". The signature is written in a cursive style with a long horizontal flourish at the end.

Juan Martinez