

# RF TEST REPORT



Report No.: **SL13070201-EQU-001-BT\_Rev1.0**

Supersede Report No.: SL13070201-EQU-001-BT

|                                                     |   |                                                                        |
|-----------------------------------------------------|---|------------------------------------------------------------------------|
| Applicant                                           | : | Equinox Payments LLC                                                   |
| Product Name                                        | : | Electronic POS Terminal                                                |
| Model No.                                           | : | CFD, AIO                                                               |
| Test Standard                                       | : | FCC 15.247: 2012<br>RSS 210 Issue8: 2010                               |
| Test Method                                         | : | ANSI C63.4:2009<br>FCC Public Notice DA 00-705                         |
| FCC ID                                              | : | NVA00008                                                               |
| IC ID                                               | : | N/A                                                                    |
| Dates of test                                       | : | August 6th - August 10th , 2013                                        |
| Issue Date                                          | : | 9/11/2013                                                              |
| Test Result                                         | : | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail |
| Equipment complied with the specification [X]       |   |                                                                        |
| Equipment did not comply with the specification [ ] |   |                                                                        |

This Test Report is Issued Under the Authority of:

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
| Nima Molaei                                                                         | David Zhang                                                                          |
| Test Engineer                                                                       | Engineer Reviewer                                                                    |

Issued By:

SIEMIC Laboratories  
775 Montague Expressway, Milpitas, 95035 CA



TESTING CERT # 2742-01

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Test result presented in this test report is applicable to the representative sample only.

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## Laboratory Introduction

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In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

| Country/Region | Accreditation Body     | Scope                              |
|----------------|------------------------|------------------------------------|
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| Canada         | IC, A2LA, NIST         | EMC, RF/Wireless , Telecom         |
| Taiwan         | BSMI , NCC , NIST      | EMC, RF, Telecom , Safety          |
| Hong Kong      | OFTA , NIST            | RF/Wireless , Telecom              |
| Australia      | NATA, NIST             | EMC, RF, Telecom , Safety          |
| Korea          | KCC/RRA, NIST          | EMI, EMS, RF , Telecom, Safety     |
| Japan          | VCCI, JATE, TELEC, RFT | EMI, RF/Wireless, Telecom          |
| Mexico         | NOM, COFETEL, Caniety  | Safety, EMC , RF/Wireless, Telecom |
| Europe         | A2LA, NIST             | EMC, RF, Telecom , Safety          |

### Accreditations for Product Certifications

| Country   | Accreditation Body | Scope                 |
|-----------|--------------------|-----------------------|
| USA       | FCC TCB, NIST      | EMC , RF , Telecom    |
| Canada    | IC FCB , NIST      | EMC , RF , Telecom    |
| Singapore | iDA, NIST          | EMC , RF , Telecom    |
| EU        | NB                 | EMC & R&TTE Directive |
| Japan     | MIC (RCB 208)      | RF , Telecom          |
| HongKong  | OFTA (US002)       | RF , Telecom          |

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| FCC ID          | NVA00008                     |
| IC ID           | N/A                          |

## 1 Report Revision History

| Report No.                   | Report Version | Description                                         | Issue Date |
|------------------------------|----------------|-----------------------------------------------------|------------|
| SL13070201-EQU-001-BT        | Original       | -                                                   | 09/04/2013 |
| SL13070201-EQU-001-BT_Rev1.0 | 1.0            | Correct model number and channel separation results | 09/11/2013 |
|                              |                |                                                     |            |
|                              |                |                                                     |            |
|                              |                |                                                     |            |

|                 |                              |
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| FCC ID          | NVA00008                     |
| IC ID           | N/A                          |

## 2 Executive Summary

The purpose of this test programme was to demonstrate compliance of the FCC, IC certified radio module, Electronic POS Terminal (FCC ID: NVA00008, IC ID: N/A), from Equinox Payments LLC, and Model: CFD, AIO, to be installed inside portable host unit of Abbott POC DragonFly Hand-held Blood Analyzer, against the current Stipulated Standards.

## 3 Customer information

|                      |   |                                                     |
|----------------------|---|-----------------------------------------------------|
| Applicant Name       | : | Equinox Payments LLC                                |
| Applicant Address    | : | 8901 E Raintree Dr., Suit 400, Scottsdale, AZ 85260 |
| Manufacturer Name    | : | Equinox Payments LLC                                |
| Manufacturer Address | : | 8901 E Raintree Dr., Suit 400, Scottsdale, AZ 85260 |

## 4 Test site information

|                      |   |                                             |
|----------------------|---|---------------------------------------------|
| Lab performing tests | : | SIEMIC Laboratories                         |
| Lab Address          | : | 775 Montague Expressway, Milpitas, CA 95035 |
| FCC Test Site No.    | : | 881796                                      |
| IC Test Site No.     | : | 4842D-2                                     |
| VCCI Test Site No.   | : | A0133                                       |

## 5 Modification

| Index | Item | Description | Note |
|-------|------|-------------|------|
| -     | -    | -           | -    |
|       |      |             |      |

## 6 EUT Information

### 6.1 EUT Description

|                               |   |                                                                                                                                                                                                        |
|-------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                  | : | Electronic POS Terminal                                                                                                                                                                                |
| Model No.                     | : | CFD, AIO                                                                                                                                                                                               |
| Trade Name                    | : | Equinox                                                                                                                                                                                                |
| Serial No.                    | : | B0232700061, B02133100003                                                                                                                                                                              |
| Input Power                   | : | 9VDC                                                                                                                                                                                                   |
| Power Adapter Manu/Model      | : | Equinox/MC28-09V 3.0A                                                                                                                                                                                  |
| Power Adapter SN              | : | 870082-001E                                                                                                                                                                                            |
| Hardware version              | : | -                                                                                                                                                                                                      |
| Software version              | : | -                                                                                                                                                                                                      |
| Date of EUT received          | : | August 4th, 2013                                                                                                                                                                                       |
| Equipment Class/ Category     | : | DXX, DSS                                                                                                                                                                                               |
| Clock Frequencies             | : | 26 MHz                                                                                                                                                                                                 |
| Port/Connectors               | : | -                                                                                                                                                                                                      |
| Difference Between two models | : | <ul style="list-style-type: none"> <li>Slightly different dimensions for AIO to accommodate integral printer</li> <li>AIO has printing capability and CFD does not have printing capability</li> </ul> |

### 6.2 Radio Description

#### Spec for Radio -

| Radio Type             | Normal Mode                         | EDR Mode      |
|------------------------|-------------------------------------|---------------|
| Operating Frequency    | 2402-2480 MHz                       | 2402-2480 MHz |
| Modulation             | GFSK                                | 8-DPSK        |
| Channel Spacing        | 1MHz                                | 1MHz          |
| Number of Channels     | 79 Ch.                              | 79 Ch.        |
| Antenna Type           | Embedded antenna- Ethertronics      |               |
| Antenna Gain           | Embedded antenna: 1.39 dBi (2.4GHz) |               |
| Antenna Connector Type | Surface Mount                       |               |

### 6.3 EUT test modes/configuration Description

| Mode   | Note        |
|--------|-------------|
| Normal | 1 Mbps, PN9 |
| EDR    | 3 Mbps, PN9 |
| Note:  |             |

| Test Item                                 | Operating mode      | Tested antenna port | Test frequencies (MHz) |
|-------------------------------------------|---------------------|---------------------|------------------------|
| Channel Separation                        | Normal and EDR Mode | -                   | 2402-2480              |
| Occupied Bandwidth                        | Normal and EDR Mode | -                   | 2402-2480              |
| Bandwidth                                 | Normal and EDR Mode | -                   | 2402-2480              |
| Number of Hopping Channels                | Normal and EDR Mode | -                   | 2402-2480              |
| Band Edge and Radiated Spurious Emissions | Normal and EDR Mode | -                   | 2402-2480              |
| Time of Occupancy                         | Normal and EDR Mode | -                   | 2402-2480              |
| Output Power                              | Normal and EDR Mode | -                   | 2402-2480              |
| Receiver Spurious Emissions               | Normal and EDR Mode | -                   | 2402-2480              |

#### 6.4 EUT Photos – External for CFD model



Top



Bottom



Front



Rear



Left Side



Right Side

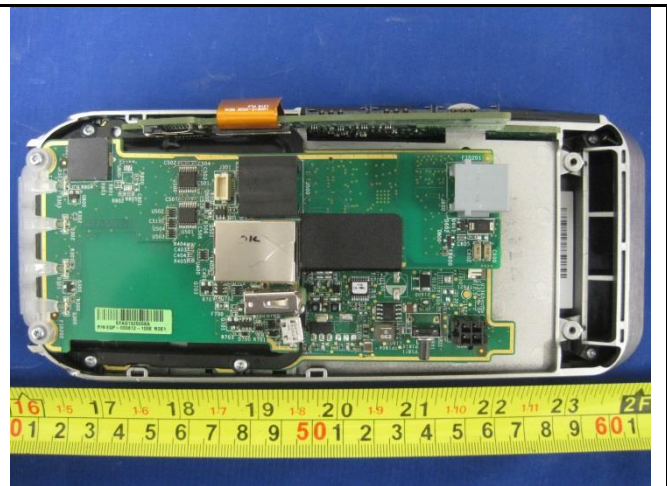
## 6.5 EUT Photos – External for AIO model



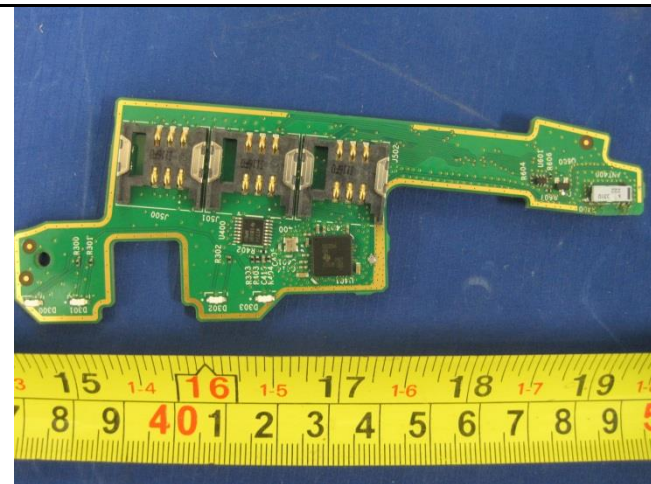
## 6.6 EUT Photos – Internal for CFD model



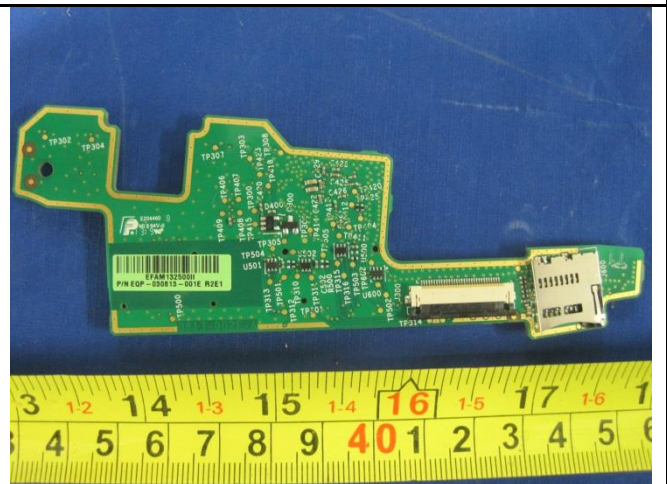
EUT - Cover off



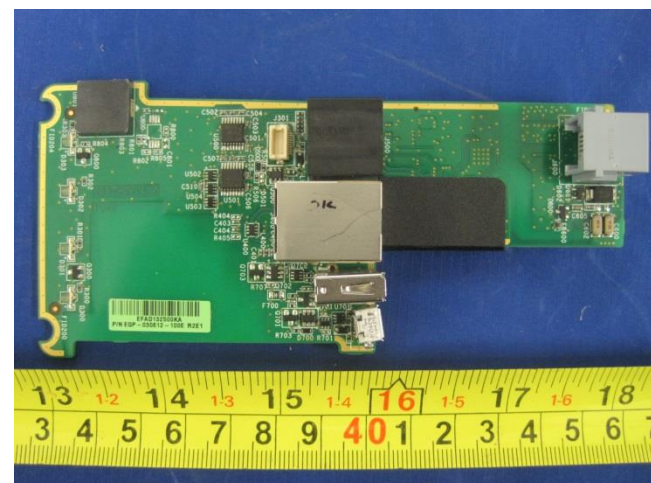
EUT- Mainboard without Cover



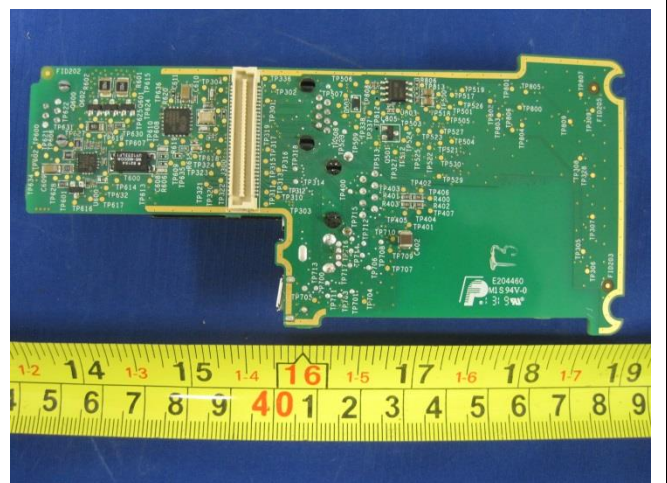
Radio Module – top view



Radio Module – bottom view

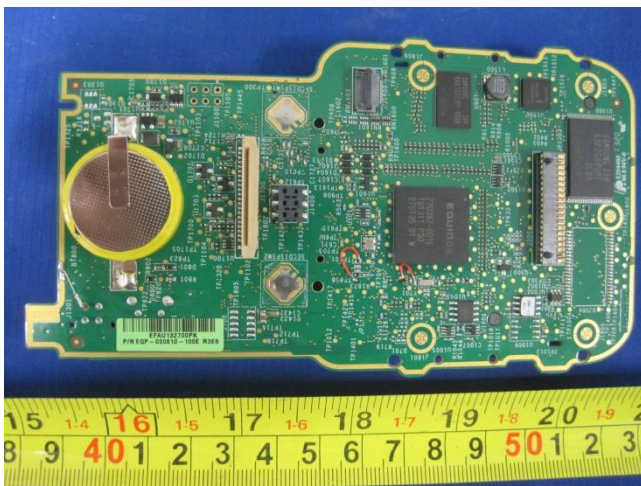


PCB 1 – Top view

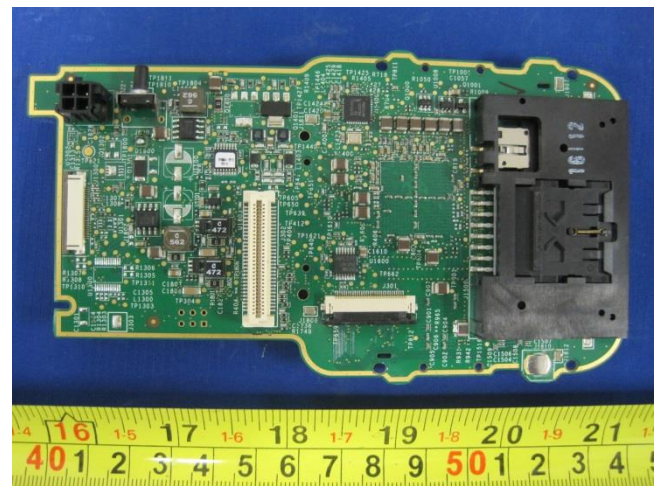


PCB 1 – Bottom view

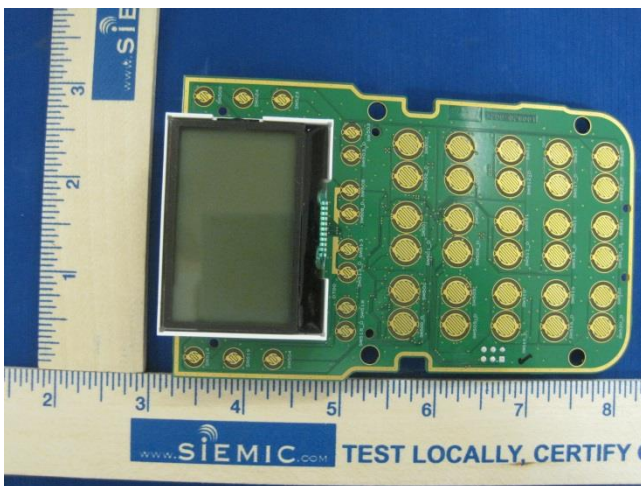
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| IC ID           | N/A                          |



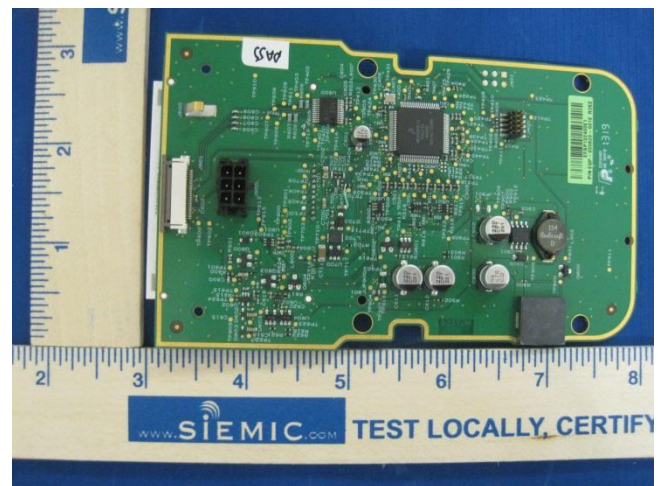
PCB 2 – Top view



PCB 2 – Bottom view



Keypad Mainboard Top View

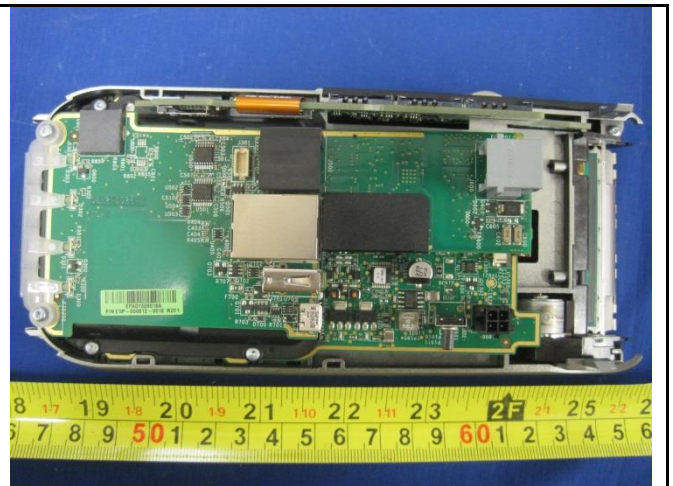


Keypad Mainboard Bottom View

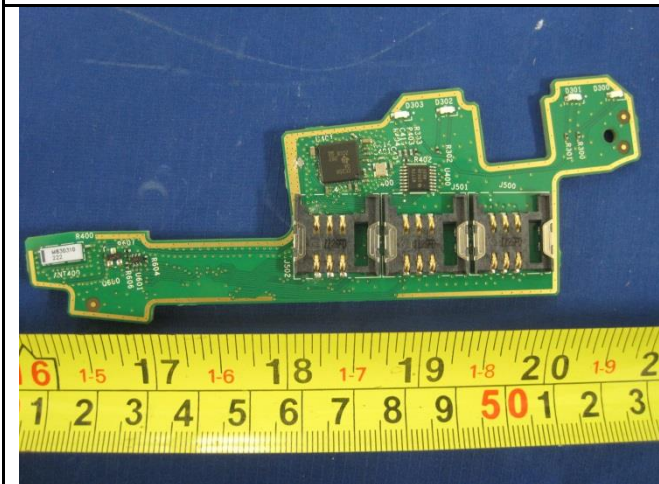
## 6.7 EUT Photos – Internal for AIO model



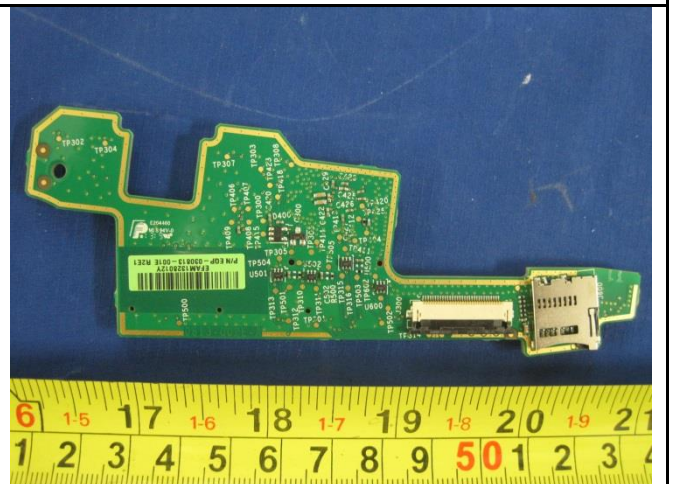
EUT - Cover off



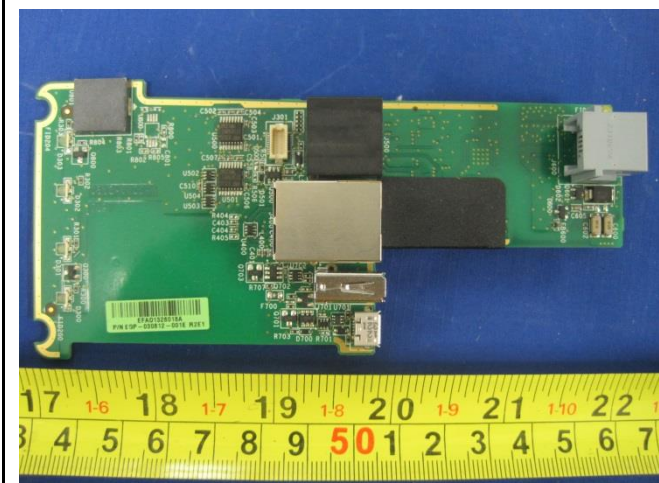
EUT- Mainboard without Cover



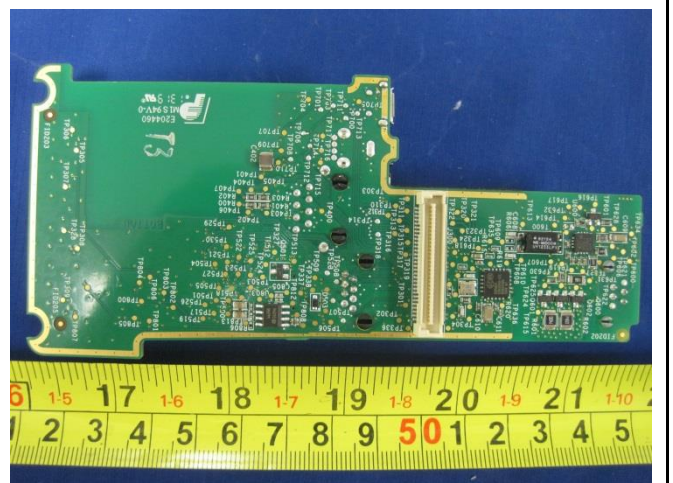
Radio Module – top view



Radio Module – Bottom view

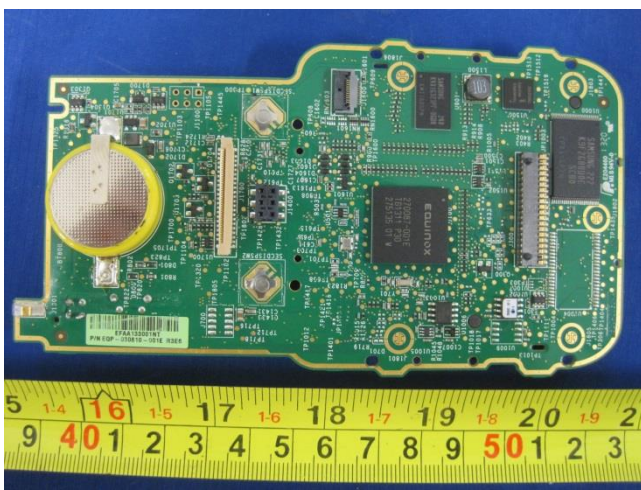


PCB 1 – Top view

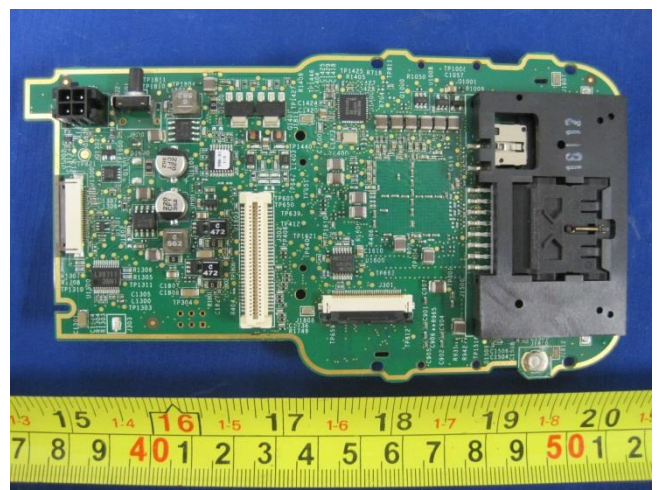


PCB 1 – Bottom view

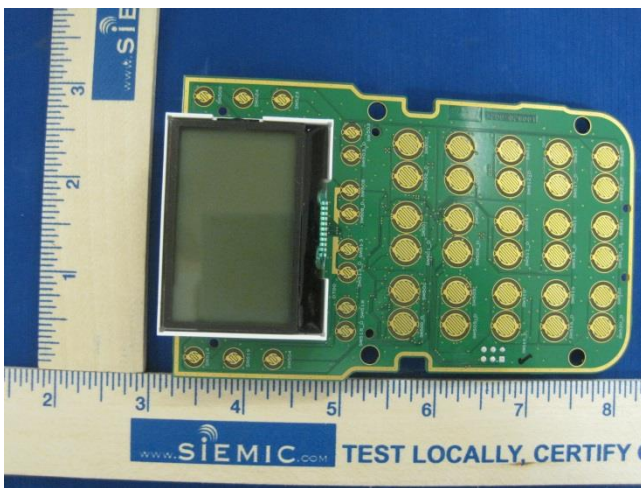
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| IC ID           | N/A                          |



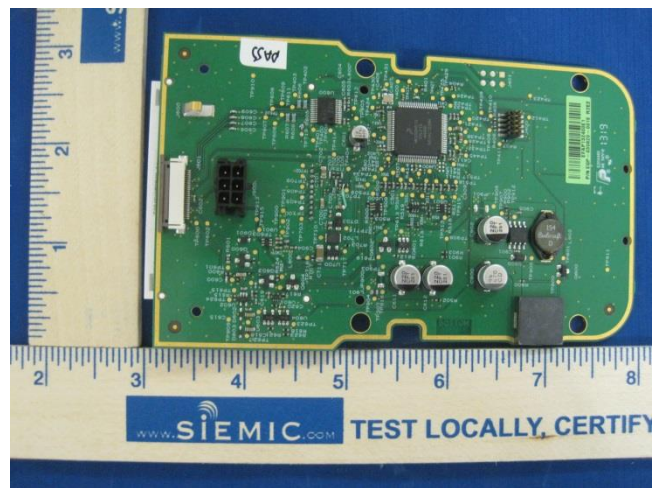
PCB 2 – Top view



PCB 2 – Bottom view



Keypad Board- Top view



Keypad Board- Bottom View

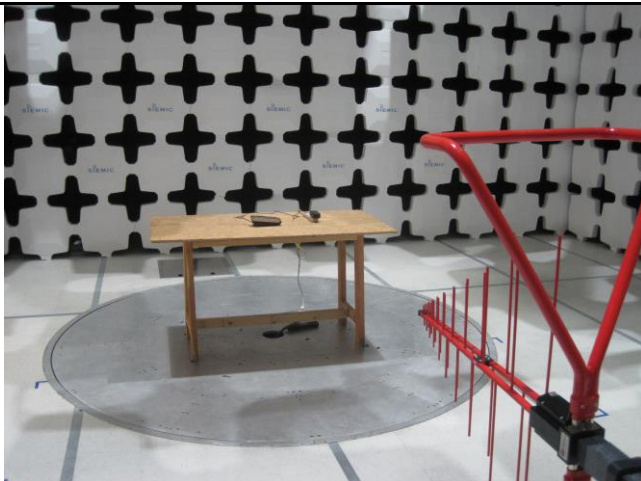
## 6.8 EUT Test Setup Photos for CFD model



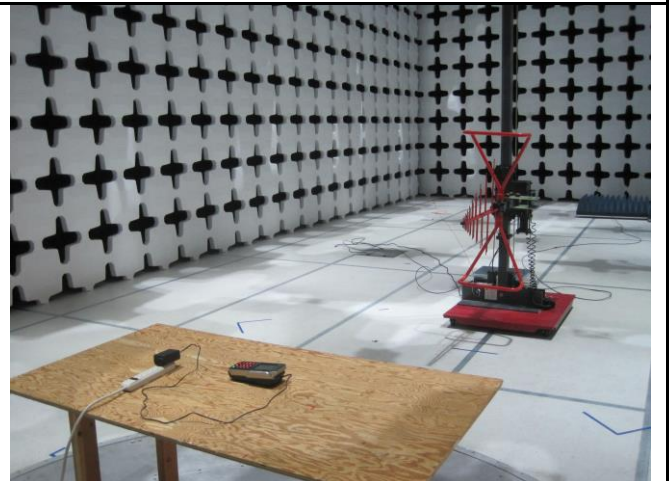
Conducted Emission - Front



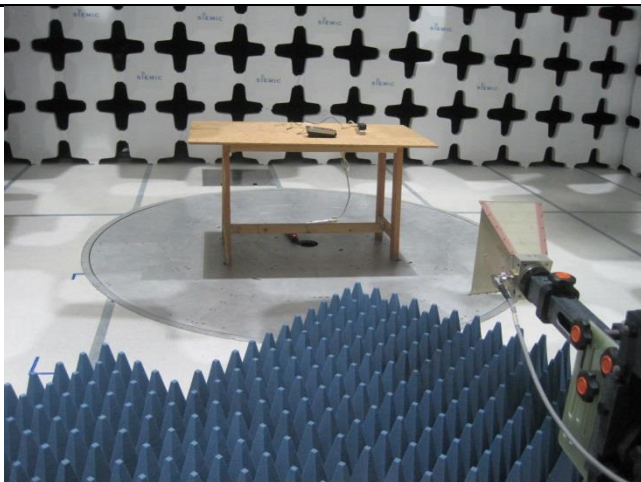
Conducted Emission - Rear



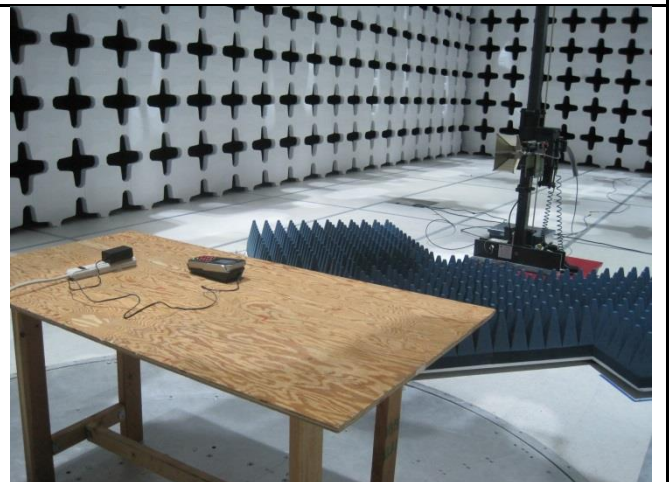
Test setup at 3 meter distance (<1GHz) - Front



Test setup at 3 meter distance (<1GHz) - Rear



Test setup at 3 meter distance (>1GHz) - Front

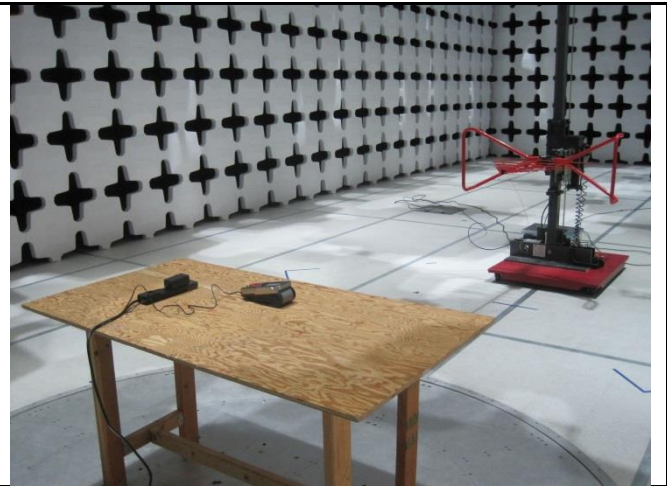


Test setup at 3 meter distance (>1GHz) - Rear

## 6.9 EUT Test Setup Photos for AIO model



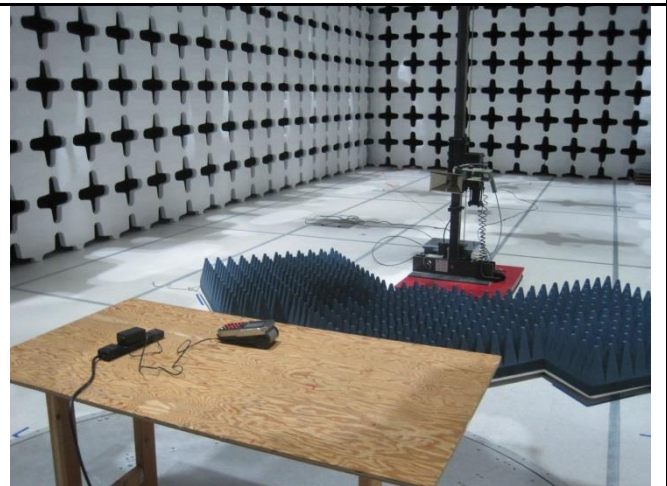
Test setup at 3 meter distance (<1GHz) - Front



Test setup at 3 meter distance (<1GHz) - Rear



Test setup at 3 meter distance (>1GHz) - Front



Test setup at 3 meter distance (>1GHz) - Rear

|                 |                              |
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| FCC ID          | NVA00008                     |
| IC ID           | N/A                          |

## 7 Supporting Equipment/Software and cabling Description

### 7.1 Supporting Equipment

| Index | Supporting Equipment Description | Model | Serial No.  | Manu    | Note |
|-------|----------------------------------|-------|-------------|---------|------|
| 1     | AC/DC Adaptor                    | MC28  | 870082-001E | EQUINOX | -    |

### 7.2 Cabling Description

| Name  | Connection Start |          | Connection Stop |          | Length / shielding Info |            | Note |
|-------|------------------|----------|-----------------|----------|-------------------------|------------|------|
|       | From             | I/O Port | To              | I/O Port | Length (m)              | Shielding  |      |
| Cable | EUT              | AC/DC    | Supply          | AC/DC    | 1.2                     | Unshielded | -    |
|       |                  |          |                 |          |                         |            |      |

### 7.3 Test Software Description

| Test Item        | Software          | Description                                     |
|------------------|-------------------|-------------------------------------------------|
| Radiated Testing | TTE test software | Set the EUT to different modulation and channel |

## 8 Test Summary

| Test Item                      | Test standard |                 | Test Method/Procedure |                         | Pass / Fail                              |
|--------------------------------|---------------|-----------------|-----------------------|-------------------------|------------------------------------------|
| Restricted Band of Operation   | FCC           | 15.205          | FCC                   | Public Notice DA 00-705 | <input type="checkbox"/> Pass            |
|                                | IC            | RSS 210 (2.2)   | IC                    | -                       | <input checked="" type="checkbox"/> N/A  |
| AC Conducted Emissions Voltage | FCC           | 15.207(a)       | FCC                   | Public Notice DA 00-705 | <input checked="" type="checkbox"/> Pass |
|                                | IC            | RSS Gen (7.2.2) | IC                    | -                       | <input type="checkbox"/> N/A             |

| Test Item                                 | Test standard                                                                                                                                                                                                                                                                                                                                           |                | Test Method/Procedure |                         | Pass / Fail                              |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------|-------------------------|------------------------------------------|
| Channel Separation                        | FCC                                                                                                                                                                                                                                                                                                                                                     | 15.247 (a)(1)  | FCC                   | Public Notice DA 00-705 | <input checked="" type="checkbox"/> Pass |
|                                           | IC                                                                                                                                                                                                                                                                                                                                                      | RSS210 (A8.1)  | IC                    | -                       | <input type="checkbox"/> N/A             |
| Occupied Bandwidth                        | FCC                                                                                                                                                                                                                                                                                                                                                     | 15.247(a)(1)   | FCC                   | -                       | <input checked="" type="checkbox"/> Pass |
|                                           | IC                                                                                                                                                                                                                                                                                                                                                      | RSS Gen(4.6.1) | IC                    | -                       | <input type="checkbox"/> N/A             |
| Bandwidth                                 | FCC                                                                                                                                                                                                                                                                                                                                                     | 15.247(a)(2)   | FCC                   | Public Notice DA 00-705 | <input checked="" type="checkbox"/> Pass |
|                                           | IC                                                                                                                                                                                                                                                                                                                                                      | RSS210 (A8.2)  | IC                    | -                       | <input type="checkbox"/> N/A             |
| Number of Hopping Channels                | FCC                                                                                                                                                                                                                                                                                                                                                     | 15.247(a)(1)   | FCC                   | Public Notice DA 00-705 | <input checked="" type="checkbox"/> Pass |
|                                           | IC                                                                                                                                                                                                                                                                                                                                                      | RSS210(A8.1)   | IC                    | -                       | <input type="checkbox"/> N/A             |
| Band Edge and Radiated Spurious Emissions | FCC                                                                                                                                                                                                                                                                                                                                                     | 15.247(d)      | FCC                   | Public Notice DA 00-705 | <input checked="" type="checkbox"/> Pass |
|                                           | IC                                                                                                                                                                                                                                                                                                                                                      | RSS210(A8.5)   | IC                    | -                       | <input type="checkbox"/> N/A             |
| Time of Occupancy                         | FCC                                                                                                                                                                                                                                                                                                                                                     | 15.247(a)(1)   | FCC                   | Public Notice DA 00-705 | <input checked="" type="checkbox"/> Pass |
|                                           | IC                                                                                                                                                                                                                                                                                                                                                      | RSS210(A8.1)   | IC                    | -                       | <input type="checkbox"/> N/A             |
| Output Power                              | FCC                                                                                                                                                                                                                                                                                                                                                     | 15.247(b)      | FCC                   | Public Notice DA 00-705 | <input checked="" type="checkbox"/> Pass |
|                                           | IC                                                                                                                                                                                                                                                                                                                                                      | RSS210 (A8.4)  | IC                    | -                       | <input type="checkbox"/> N/A             |
| Receiver Spurious Emissions               | FCC                                                                                                                                                                                                                                                                                                                                                     | 15.247(d)      |                       | Public Notice DA 00-705 | <input checked="" type="checkbox"/> Pass |
|                                           | IC                                                                                                                                                                                                                                                                                                                                                      | RSS Gen (4.8)  |                       | -                       | <input type="checkbox"/> N/A             |
| Antenna Gain > 6 dBi                      | FCC                                                                                                                                                                                                                                                                                                                                                     | 15.247(e)      | FCC                   | Public Notice DA 00-705 | <input type="checkbox"/> Pass            |
|                                           | IC                                                                                                                                                                                                                                                                                                                                                      | RSS210(A8.4)   | IC                    | -                       | <input checked="" type="checkbox"/> N/A  |
| Power Spectral Density                    | FCC                                                                                                                                                                                                                                                                                                                                                     | 15.247(e)      | FCC                   | Public Notice DA 00-705 | <input type="checkbox"/> Pass            |
|                                           | IC                                                                                                                                                                                                                                                                                                                                                      | RSS210(A8.3)   | IC                    | -                       | <input checked="" type="checkbox"/> N/A  |
| Hybrid System Requirement                 | FCC                                                                                                                                                                                                                                                                                                                                                     | 15.247(f)      | FCC                   | Public Notice DA 00-705 | <input type="checkbox"/> Pass            |
|                                           | IC                                                                                                                                                                                                                                                                                                                                                      | RSS210(A8.3)   | IC                    | -                       | <input checked="" type="checkbox"/> N/A  |
| Hopping Capability                        | FCC                                                                                                                                                                                                                                                                                                                                                     | 15.247(g)      | FCC                   | Public Notice DA 00-705 | <input checked="" type="checkbox"/> Pass |
|                                           | IC                                                                                                                                                                                                                                                                                                                                                      | RSS210(A8.1)   | IC                    | -                       | <input type="checkbox"/> N/A             |
| Hopping Coordination Requirement          | FCC                                                                                                                                                                                                                                                                                                                                                     | 15.247(h)      | FCC                   | Public Notice DA 00-705 | <input type="checkbox"/> Pass            |
|                                           | IC                                                                                                                                                                                                                                                                                                                                                      | RSS210(A8.1)   | IC                    | -                       | <input checked="" type="checkbox"/> N/A  |
| RF Exposure requirement                   | FCC                                                                                                                                                                                                                                                                                                                                                     | 15.247(i)      | FCC                   | Public Notice DA 00-705 | <input checked="" type="checkbox"/> Pass |
|                                           | IC                                                                                                                                                                                                                                                                                                                                                      | RSS Gen(5.5)   | IC                    | -                       | <input type="checkbox"/> N/A             |
| Remark                                    | <ol style="list-style-type: none"> <li>All measurement uncertainties are not taken into consideration for all presented test result.</li> <li>The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual.</li> </ol> |                |                       |                         |                                          |

## 9 Measurement Uncertainty

| Test Item                                 | Frequency Range | Description                                                                                                                                     | Uncertainty   |
|-------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Band Edge and Radiated Spurious Emissions | 30MHz – 1GHz    | Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m) | +5.6dB/-4.5dB |
| Band Edge and Radiated Spurious Emissions | 1Hz – 40GHz     | Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m) | +4.3dB/-4.1dB |

## 10 Measurements, examination and derived results

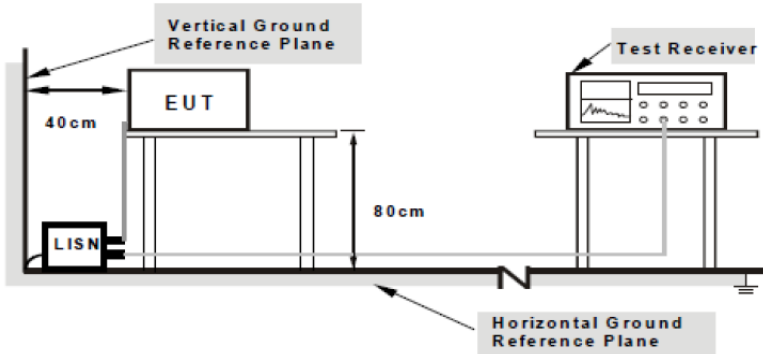
### 10.1 Antenna Requirement

| Spec    | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Applicable                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| §15.203 | <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.</p> <p>Antenna requirement must meet at least one of the following:</p> <p>a) Antenna must be permanently attached to the device.<br/> b) Antenna must use a unique type of connector to attach to the device.<br/> c) Device must be professionally installed. Installer shall be responsible for ensuring that the correct antenna is employed with the device.</p> | <input checked="" type="checkbox"/> |
| Remark  | The BT antenna is integral to the PCB board permanently to the device which meets the requirement (See Internal Photographs submitted as another Exhibit).                                                                                                                                                                                                                                                                                                                                                                     |                                     |
| Result  | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |

## 10.2 Conducted Emission Test Result

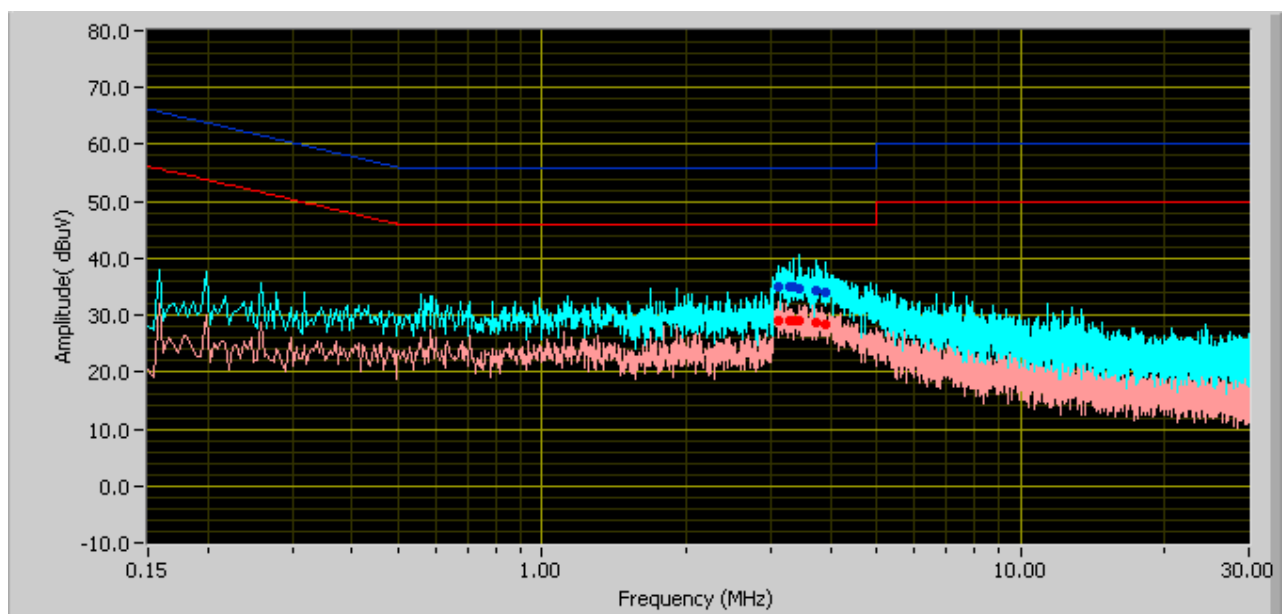
### Conducted Emission Limit

| Section         | Frequency ranges (MHz) | Limit (dBuV) |         |
|-----------------|------------------------|--------------|---------|
|                 |                        | QP           | Average |
| Class B devices | 0.15 ~ 0.5             | 66 – 56      | 56 – 46 |
|                 | 0.5 ~ 5                | 56           | 46      |
|                 | 5 ~ 30                 | 60           | 50      |

| Spec                   | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Applicable                                                                 |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| § 15.207, RSS210(A8.1) | For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits set in § 15.207, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN).<br>AC Line conducted emission within the band 150KHz to 30MHz                                                                                                                                   | <input checked="" type="checkbox"/>                                        |
| Test Setup             |  <p>Note: 1.Support units were connected to second LISN.<br/>2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</p>                                                                                                                                                                                                                                                                                                               |                                                                            |
| Procedure              | <ul style="list-style-type: none"> <li>- The EUT and supporting equipment was set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B.</li> <li>- The power supply for the EUT was fed through a 50<math>\Omega</math>/50<math>\mu</math>H EUT LISN, connected to filtered mains.</li> <li>- The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.</li> <li>- All other supporting equipments were powered separately from another main supply.</li> </ul> |                                                                            |
| Test Date              | 07/29/2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Environmental condition                                                    |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Temperature 23oC<br>Relative Humidity 47%<br>Atmospheric Pressure 1019mbar |
| Remark                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                            |
| Result                 | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                            |

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes ☐ N/A



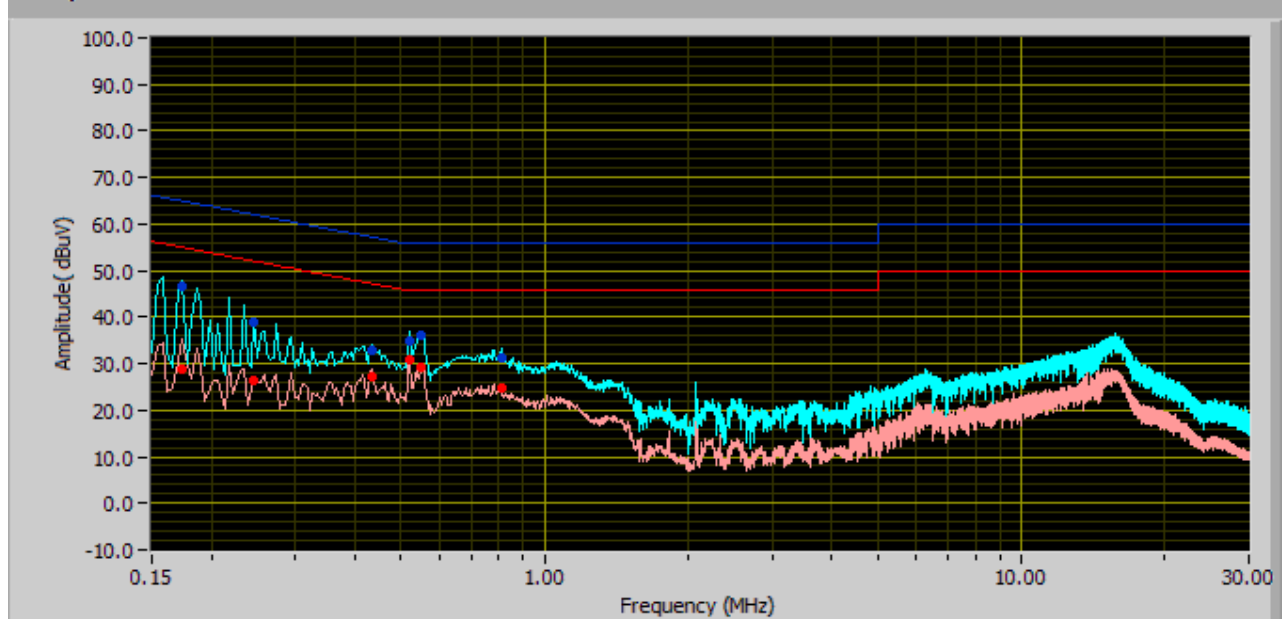
Quasi-Peak Limit

Average Limit

Phase Line Plot at 120Vac, 60Hz

| Frequency (MHz) | QP Value (dBμV) | Class B Limit (dB) | Margin (dB) | Avg Value (dBμV) | Class B Limit (dB) | Margin (dB) | Line  |
|-----------------|-----------------|--------------------|-------------|------------------|--------------------|-------------|-------|
| 0.17            | 48.407          | 65.129             | -16.722     | 32.107           | 55.129             | -23.022     | Phase |
| 0.266           | 38.015          | 61.339             | -23.324     | 27.995           | 51.339             | -23.344     | Phase |
| 0.518           | 36.625          | 56                 | -19.375     | 32.485           | 46                 | -13.515     | Phase |
| 15.601          | 35.461          | 60                 | -24.539     | 29.201           | 50                 | -20.799     | Phase |
| 15.681          | 35.404          | 60                 | -24.596     | 29.264           | 50                 | -20.736     | Phase |
| 15.701          | 35.465          | 60                 | -24.535     | 29.365           | 50                 | -20.635     | Phase |

Final plot



Quasi-Peak Limit

Average Limit

Neutral Line Plot at 120Vac, 60Hz

| Frequency (MHz) | QP Value (dBμV) | Class B Limit (dB) | Margin (dB) | Avg Value (dBμV) | Class B Limit (dB) | Margin (dB) | Line    |
|-----------------|-----------------|--------------------|-------------|------------------|--------------------|-------------|---------|
| 0.174           | 46.57           | 64.933             | -18.363     | 28.84            | 54.933             | -26.093     | Neutral |
| 0.246           | 38.887          | 62.001             | -23.114     | 26.227           | 52.001             | -25.774     | Neutral |
| 0.434           | 32.925          | 57.194             | -24.269     | 27.365           | 47.194             | -19.829     | Neutral |
| 0.522           | 34.798          | 56                 | -21.202     | 30.728           | 46                 | -15.272     | Neutral |
| 0.55            | 35.921          | 56                 | -20.079     | 29.171           | 46                 | -16.829     | Neutral |
| 0.81            | 31.222          | 56                 | -24.778     | 24.942           | 46                 | -21.058     | Neutral |

### 10.3 Channel Separation

#### Requirement(s):

| Spec                                 | Requirement                                                                                                                                                                       | Applicable                                                                                            |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 47 CFR §15.247 (e)<br>RSS-210 (A2.6) | Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or 2/3 of 20 dB bandwidth of the hopping channel, whichever is greater. | <input checked="" type="checkbox"/>                                                                   |
| Test Setup                           |                                                                                                 |                                                                                                       |
| Procedure                            | 1. EUT was set for low , mid, high channel with modulated mode and highest RF output power.<br>2. The spectrum analyzer was connected to the antenna terminal.                    |                                                                                                       |
| Test Date                            | 07/30/2013                                                                                                                                                                        | Environmental condition<br>Temperature 23oC<br>Relative Humidity 47%<br>Atmospheric Pressure 1019mbar |
| Remark                               | -                                                                                                                                                                                 |                                                                                                       |
| Result                               | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                            |                                                                                                       |

Test Data    ☒ Yes (See below)      ☐ N/A

#### Configuration : Bluetooth Mode , Basic Data Rate, 1Mbps

| Channel | Channel Frequency (MHz) | Channel Separation (MHz) | 2/3 20dB Bandwidth (MHz) | Pass/Fail |
|---------|-------------------------|--------------------------|--------------------------|-----------|
| Low     | 2402                    | 1.005                    | 0.729                    | Pass      |
| Mid     | 2441                    | 1.012                    | 0.727                    | Pass      |
| High    | 2480                    | 1.015                    | 0.734                    | Pass      |

#### Configuration : Bluetooth Mode , EDR 3Mbps

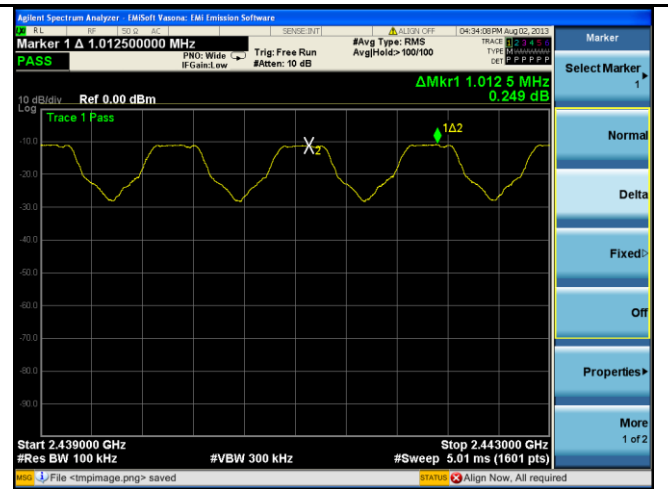
| Channel | Channel Frequency (MHz) | Channel Separation (MHz) | 2/3 20dB Bandwidth (MHz) | Pass/Fail |
|---------|-------------------------|--------------------------|--------------------------|-----------|
| Low     | 2402                    | 1.007                    | 0.945                    | Pass      |
| Mid     | 2441                    | 1.007                    | 0.945                    | Pass      |
| High    | 2480                    | 1.007                    | 0.952                    | Pass      |

Test Plot    ☒ Yes (See below)      ☐ N/A

|                 |                              |
|-----------------|------------------------------|
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| FCC ID          | NVA00008                     |
| IC ID           | N/A                          |



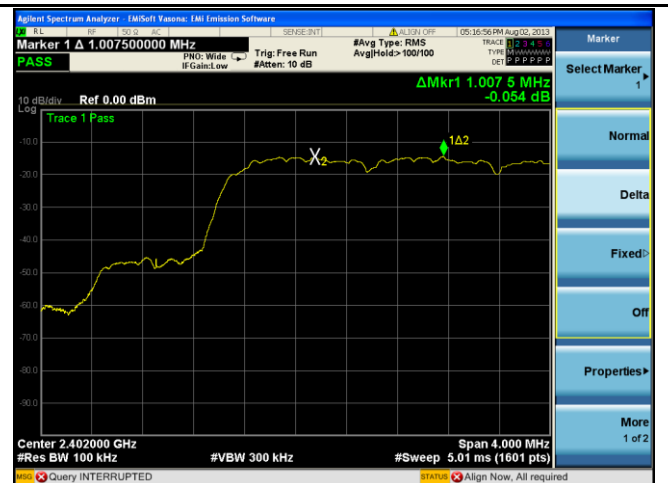
Channel Separation-Low Channel-Normal Mode



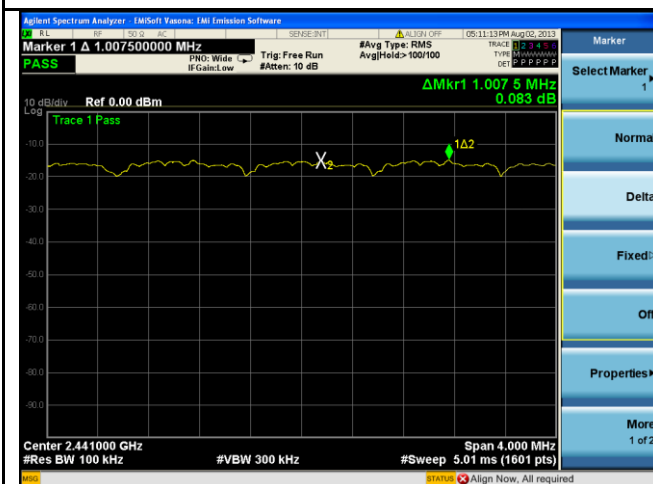
Channel Separation-Mid Channel-Normal Mode



Channel Separation-High Channel-Normal Mode



Channel Separation-Low Channel-EDR Mode



Channel Separation-Mid Channel-EDR Mode



Channel Separation-High Channel-EDR Mode

## 10.4 99% Occupied Bandwidth

### Requirement(s):

| Spec                    | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Applicable                                                                                                                                                                                                        |                         |             |      |  |                   |     |  |                      |          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------|------|--|-------------------|-----|--|----------------------|----------|
| RSS Gen 4.6.1           | The transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used given that a peak or peak hold may produce a wider bandwidth than actual. The trace data points are recovered and directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth | <input checked="" type="checkbox"/>                                                                                                                                                                               |                         |             |      |  |                   |     |  |                      |          |
| Test Setup              | <div><div>Spectrum Analyzer</div><div>EUT</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                   |                         |             |      |  |                   |     |  |                      |          |
| Procedure               | 1. EUT was set for low , mid, high channel with modulated mode and highest RF output power.<br>2. The spectrum analyzer was connected to the antenna terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                   |                         |             |      |  |                   |     |  |                      |          |
| Test Date               | 07/30/2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <table><tr><td>Environmental condition</td><td>Temperature</td><td>23oC</td></tr><tr><td></td><td>Relative Humidity</td><td>47%</td></tr><tr><td></td><td>Atmospheric Pressure</td><td>1019mbar</td></tr></table> | Environmental condition | Temperature | 23oC |  | Relative Humidity | 47% |  | Atmospheric Pressure | 1019mbar |
| Environmental condition | Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 23oC                                                                                                                                                                                                              |                         |             |      |  |                   |     |  |                      |          |
|                         | Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 47%                                                                                                                                                                                                               |                         |             |      |  |                   |     |  |                      |          |
|                         | Atmospheric Pressure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1019mbar                                                                                                                                                                                                          |                         |             |      |  |                   |     |  |                      |          |
| Remark                  | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                   |                         |             |      |  |                   |     |  |                      |          |
| Result                  | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                   |                         |             |      |  |                   |     |  |                      |          |

**Test Data** ☒ Yes (See below) ☐ N/A

**Test Plot** ☒ Yes (See below) ☐ N/A

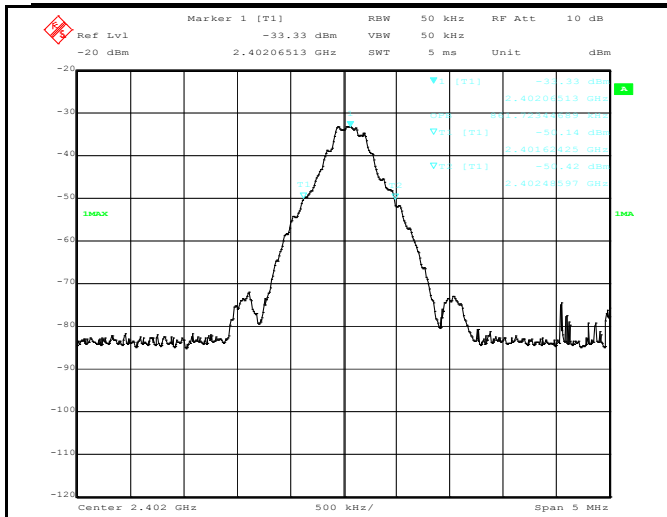
### Configuration : Bluetooth Mode , Basic Data Rate, 1Mbps

| Channel | Channel Frequency (MHz) | 99% Occupied Bandwidth (KHz) |
|---------|-------------------------|------------------------------|
| Low     | 2402                    | 861.72                       |
| Mid     | 2441                    | 881.76                       |
| High    | 2480                    | 881.76                       |

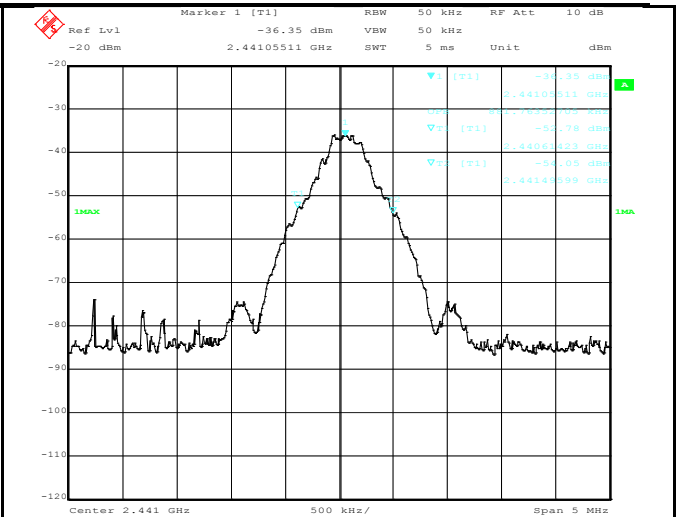
### Configuration : Bluetooth Mode , EDR 3Mbps

| Channel | Channel Frequency (MHz) | 99% Occupied Bandwidth (KHz) |
|---------|-------------------------|------------------------------|
| Low     | 2402                    | 1252.50                      |
| Mid     | 2441                    | 1252.50                      |
| High    | 2480                    | 1272.54                      |

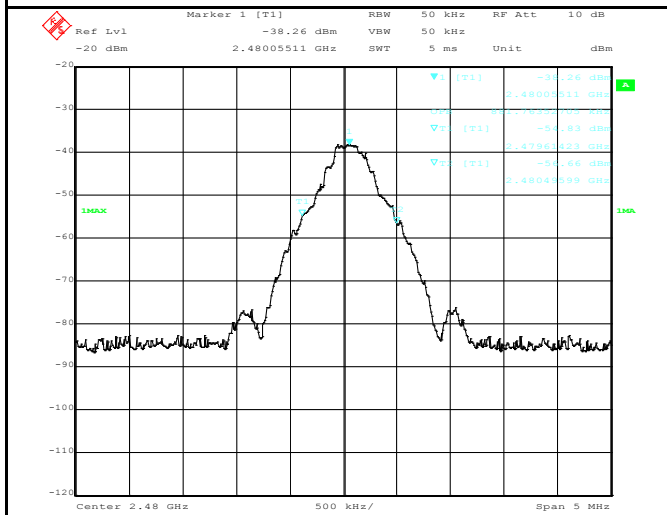
|                 |                              |
|-----------------|------------------------------|
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| FCC ID          | NVA00008                     |
| IC ID           | N/A                          |



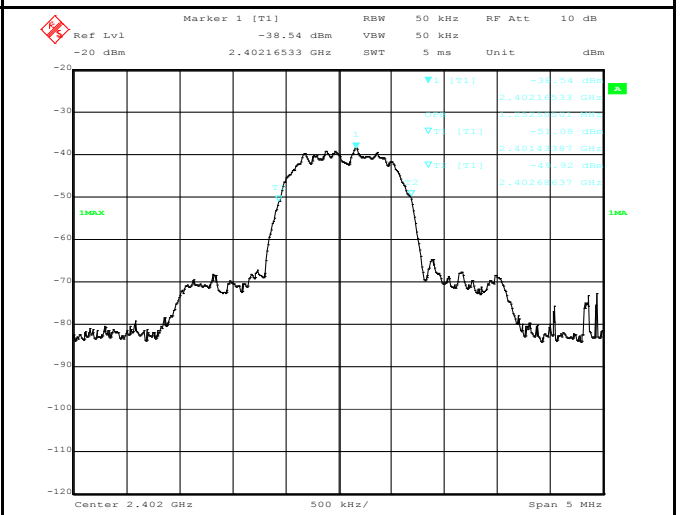
**99% Occupied Bandwidth-Low Channel-Normal Mode**



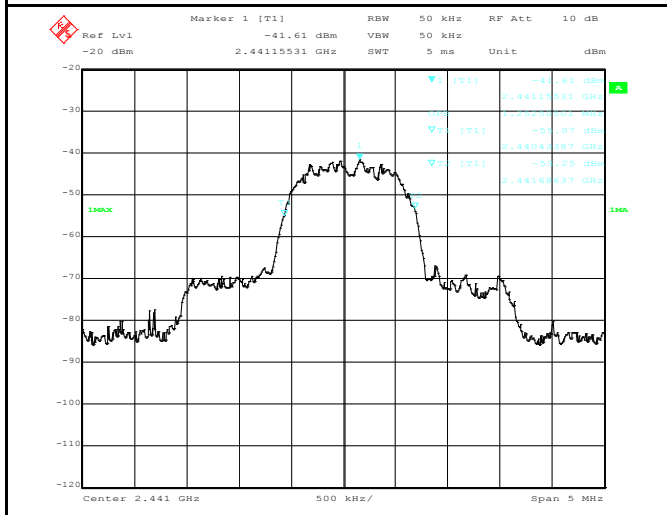
**99% Occupied Bandwidth-Mid Channel-Normal Mode**



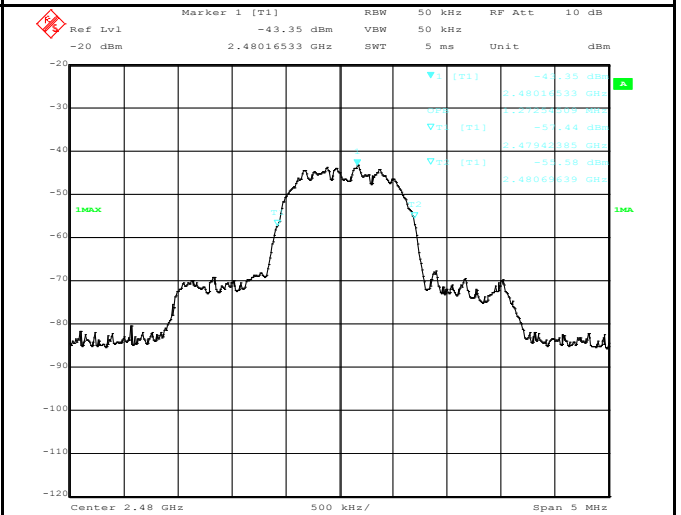
**99% Occupied Bandwidth-High Channel-Normal Mode**



**99% Occupied Bandwidth-Low Channel-EDR Mode**



**99% Occupied Bandwidth-Mid Channel-EDR Mode**



**99% Occupied Bandwidth-High Channel-EDR Mode**

## 10.5 20dB Occupied Bandwidth

### Requirement(s):

| Spec                             | Requirement                                                                                                                                                                           | Applicable                                                                                            |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 47 CFR §15.247<br>RSS-210 (A2.6) | Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 2/3 of 20 dB bandwidth of the hopping channel, whichever is greater. | <input checked="" type="checkbox"/>                                                                   |
| Test Setup                       |                                                                                                     |                                                                                                       |
| Procedure                        | 1. EUT was set for low , mid, high channel with modulated mode and highest RF output power.<br>2. The spectrum analyzer was connected to the antenna terminal.                        |                                                                                                       |
| Test Date                        | 07/30/2013                                                                                                                                                                            | Environmental condition<br>Temperature 23oC<br>Relative Humidity 47%<br>Atmospheric Pressure 1019mbar |
| Remark                           | -                                                                                                                                                                                     |                                                                                                       |
| Result                           | <input type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                           |                                                                                                       |

Test Data    ☒ Yes (See below)      ☐ N/A

### Configuration : Bluetooth mode , Basic Rate

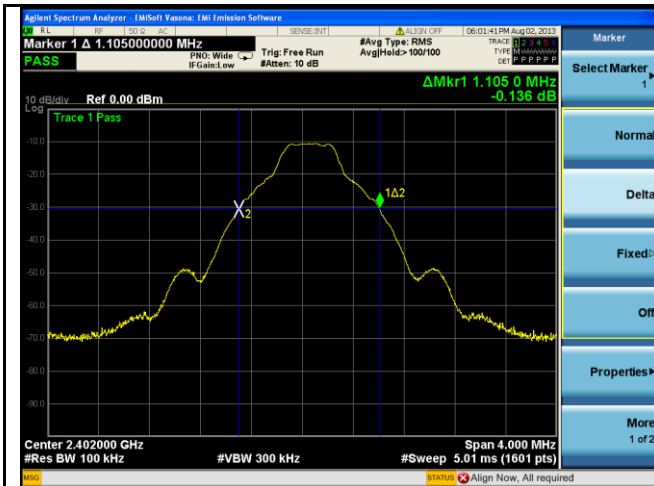
| Channel | Channel Frequency (MHz) | 20 dB Bandwidth (MHz) | 2/3 20dB Bandwidth (MHz) |
|---------|-------------------------|-----------------------|--------------------------|
| Low     | 2402                    | 1.1050                | 0.729                    |
| Mid     | 2441                    | 1.1025                | 0.727                    |
| High    | 2480                    | 1.1125                | 0.734                    |

### Configuration : Bluetooth mode , EDR mode

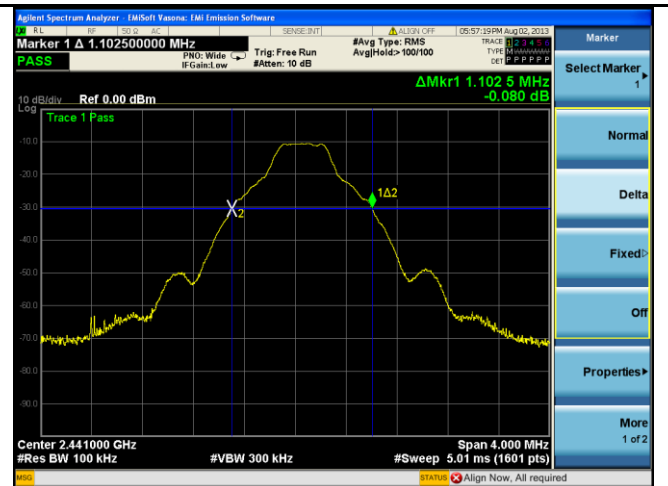
| Channel | Channel Frequency (MHz) | 20 dB Bandwidth (MHz) | 2/3 20dB Bandwidth (MHz) |
|---------|-------------------------|-----------------------|--------------------------|
| Low     | 2402                    | 1.4325                | 0.945                    |
| Mid     | 2441                    | 1.4325                | 0.945                    |
| High    | 2480                    | 1.4425                | 0.952                    |

Test Plot    ☒ Yes (See below)      ☐ N/A

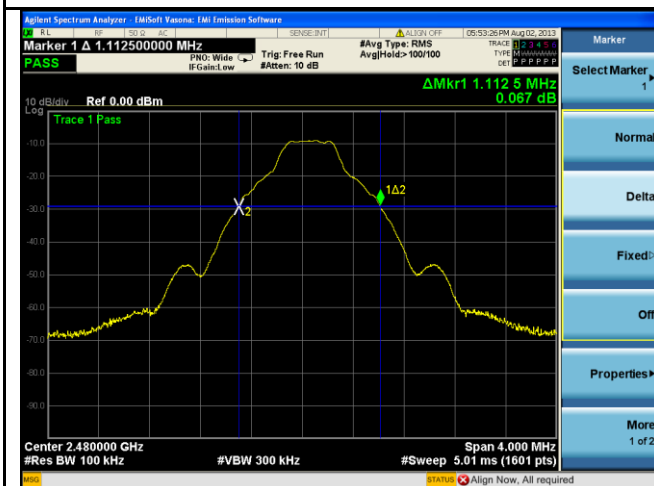
|                 |                              |
|-----------------|------------------------------|
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| FCC ID          | NVA00008                     |
| IC ID           | N/A                          |



20dB Occupied Bandwidth-Low Channel-Normal Mode



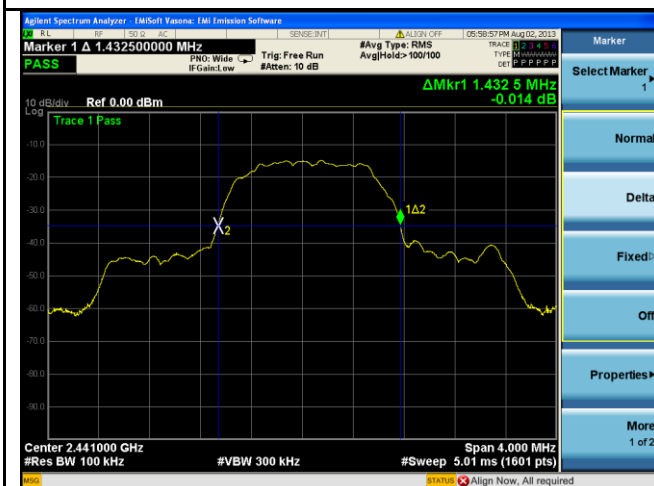
20dB Occupied Bandwidth-Normal Channel-Normal Mode



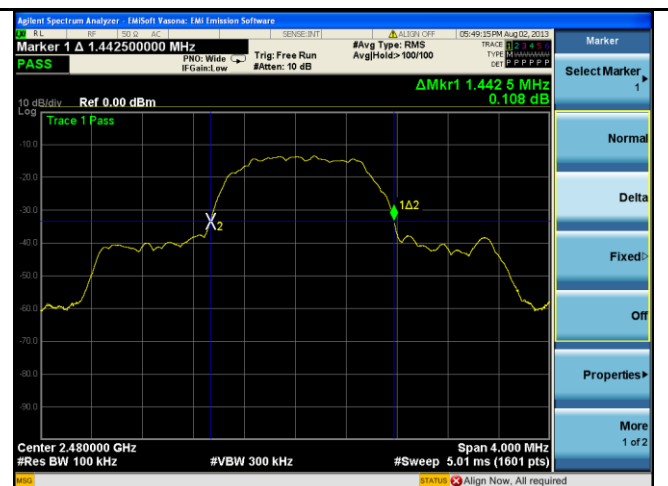
20dB Occupied Bandwidth-High Channel-Normal Mode



20dB Occupied Bandwidth-Low Channel-EDR Mode



20dB Occupied Bandwidth-Mid Channel-EDR Mode



20dB Occupied Bandwidth-High Channel-EDR Mode

## 10.6 Number of Hopping Channel

### Requirement(s):

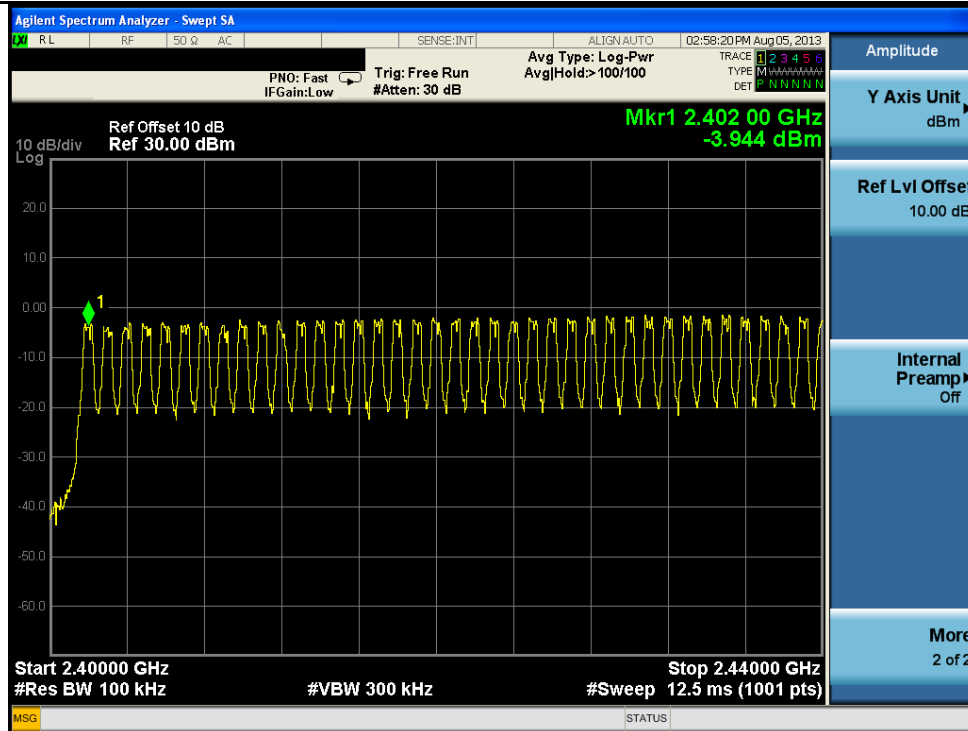
| Spec                             | Requirement                                                                                                                                                                                 | Applicable                                                                                            |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 47 CFR §15.247<br>RSS-210 (A2.6) | Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.                                                                                                       | <input checked="" type="checkbox"/>                                                                   |
| Test Setup                       |                                                                                                           |                                                                                                       |
| Procedure                        | 1. EUT was set for low , mid, high channel with modulated mode and highest RF output power.<br>2. The spectrum analyzer was connected to the antenna terminal.<br>3. RBW=100 KHz, VBW > RBW |                                                                                                       |
| Test Date                        | 07/30/2013                                                                                                                                                                                  | Environmental condition<br>Temperature 23oC<br>Relative Humidity 47%<br>Atmospheric Pressure 1019mbar |
| Remark                           | -                                                                                                                                                                                           |                                                                                                       |
| Result                           | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                      |                                                                                                       |

**Test Data**    ☒ Yes (See below)      ☐ N/A

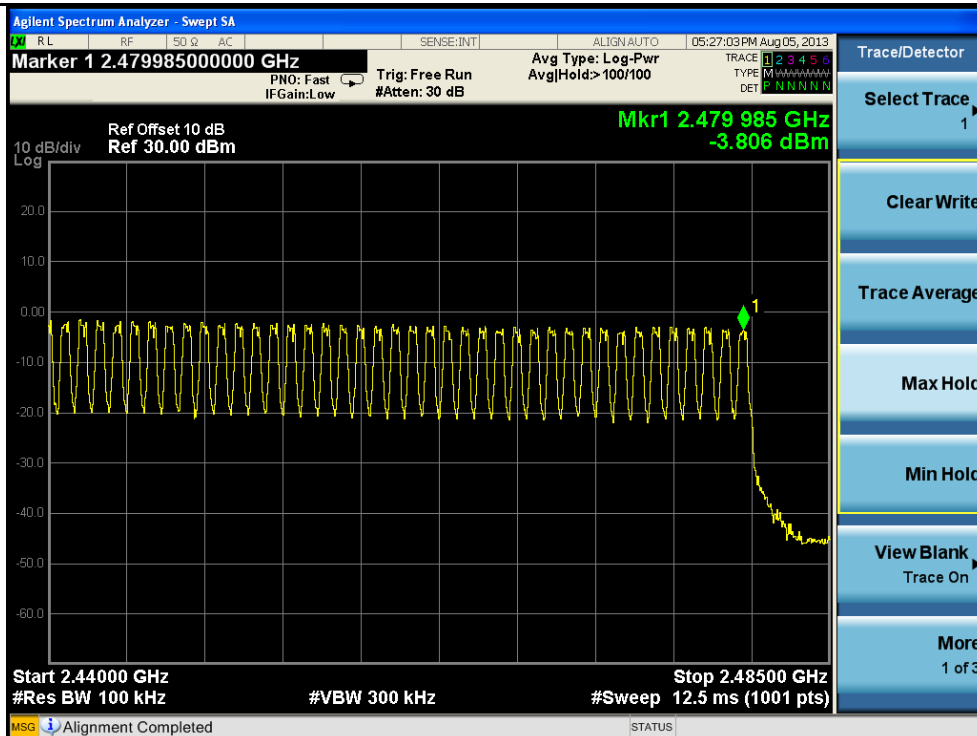
| Channel Number | Limit | Pass/Fail |
|----------------|-------|-----------|
| 79             | 15    | Pass      |

**Test Plot**    ☒ Yes (See below)      ☐ N/A

|                 |                              |
|-----------------|------------------------------|
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| IC ID           | N/A                          |



Graph1-39 Channels



Graph2-40 Channels

## 10.7 Time of Occupancy

### Requirement(s):

| Spec                             | Requirement                                                                                                                                                                                                                                                                                                                                                                                                     | Applicable                                                                                            |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 47 CFR §15.247<br>RSS-210 (A2.6) | Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. | <input checked="" type="checkbox"/>                                                                   |
| Test Setup                       |                                                                                                                                                                                                                                                                                                                               |                                                                                                       |
| Procedure                        | 1. EUT was set for low , mid, high channel with modulated mode and highest RF output power.<br>2. The spectrum analyzer was connected to the antenna terminal.                                                                                                                                                                                                                                                  |                                                                                                       |
| Test Date                        | 08/07/2013                                                                                                                                                                                                                                                                                                                                                                                                      | Environmental condition<br>Temperature 24oC<br>Relative Humidity 47%<br>Atmospheric Pressure 1019mbar |
| Remark                           | -                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                       |
| Result                           | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                          |                                                                                                       |

**Test Data**    ☒ Yes (See below)      ☐ N/A

### Bluetooth Basic Rate Test Mode (1Mbps)

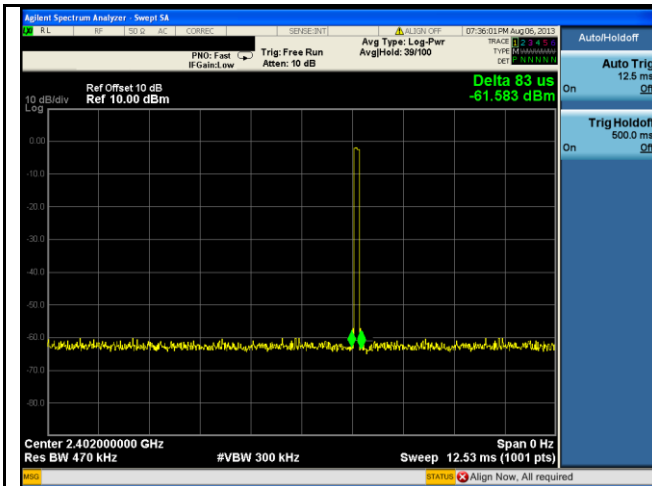
| Channel | Channel Frequency (MHz) | Dwell Time (Sec) | Limit (Sec) |
|---------|-------------------------|------------------|-------------|
| Low     | 2402                    | 0.2098           | 0.4         |
| Mid     | 2441                    | 0.2098           | 0.4         |
| High    | 2480                    | 0.2098           | 0.4         |

### Bluetooth EDR Test Mode (3Mbps)

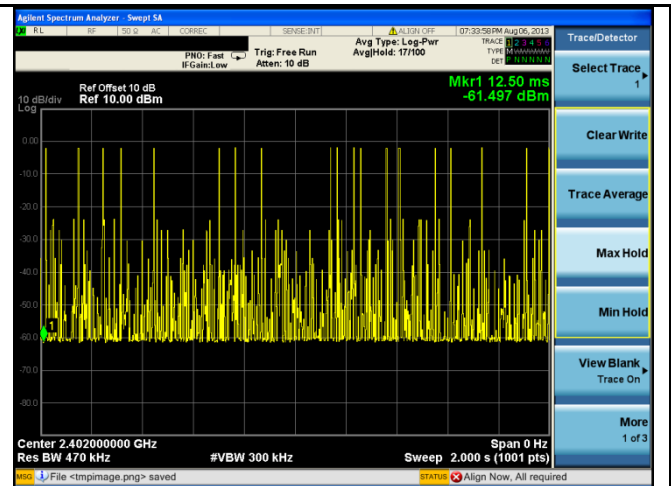
| Channel | Channel Frequency (MHz) | Dwell Time (Sec) | Limit (Sec) |
|---------|-------------------------|------------------|-------------|
| Low     | 2402                    | 0.2098           | 0.4         |
| Mid     | 2441                    | 0.2098           | 0.4         |
| High    | 2480                    | 0.2098           | 0.4         |

**Test Plot**    ☒ Yes (See below)      ☐ N/A

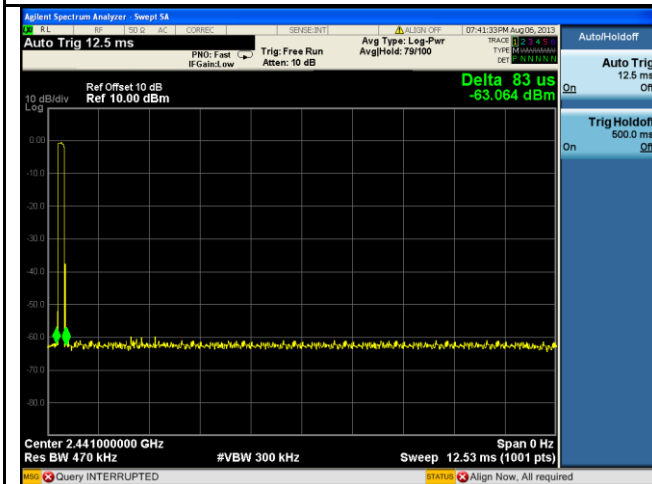
|                 |                              |
|-----------------|------------------------------|
| Test report No. | SL13070201-EQU-001-BT_Rev1.0 |
| Page            | 31 of 51                     |
| FCC ID          | NVA00008                     |
| IC ID           | N/A                          |



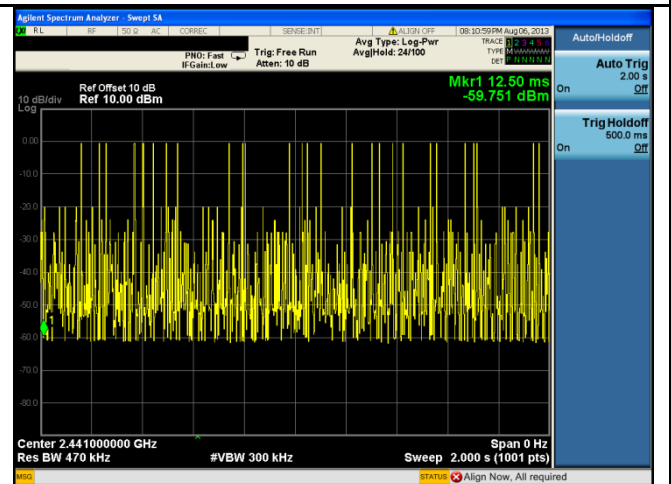
Low Channel (Sweep in 12.5msec)



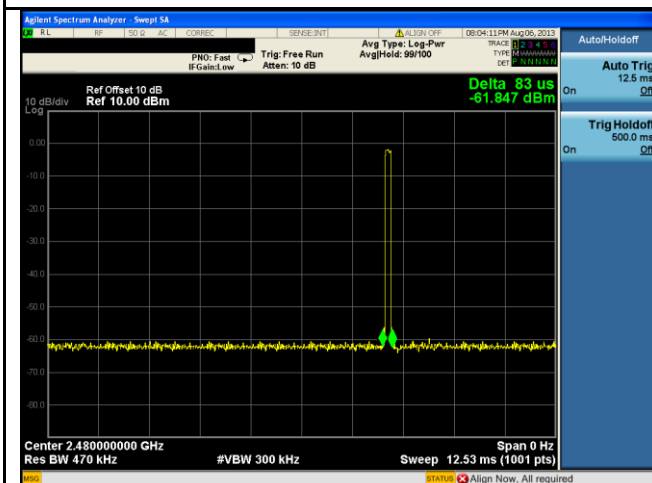
Low Channel (Sweep in 2sec)



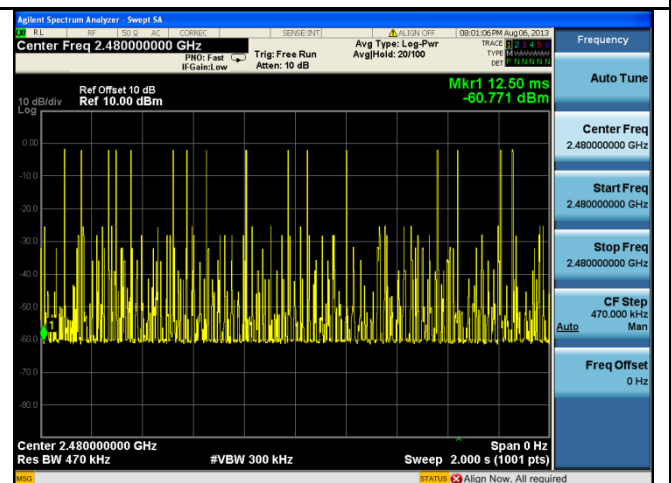
Middle Channel (Sweep in 12.5msec)



Mid Channel (Sweep in 2sec)



High Channel (Sweep in 12.5msec)



High Channel (Sweep in 2sec)

## 10.8 Peak Spectral Density

### Requirement(s):

| Spec                             | Requirement                                                                                                                                                                                                              | Applicable                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 47 CFR §15.247<br>RSS-210 (A2.6) | For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission | <input type="checkbox"/>                                                                        |
| Test Setup                       |                                                                                                                                        |                                                                                                 |
| Procedure                        | 1. EUT was set for low , mid, high channel with modulated mode and highest RF output power.<br>2. The spectrum analyzer was connected to the antenna terminal.<br>3. RBW=3 KHz, VBW > RBW, Sweep time: atuo              |                                                                                                 |
| Test Date                        | N/A                                                                                                                                                                                                                      | Environmental condition<br>Temperature N/A<br>Relative Humidity N/A<br>Atmospheric Pressure N/A |
| Remark                           | -                                                                                                                                                                                                                        |                                                                                                 |
| Result                           | <input type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                              |                                                                                                 |

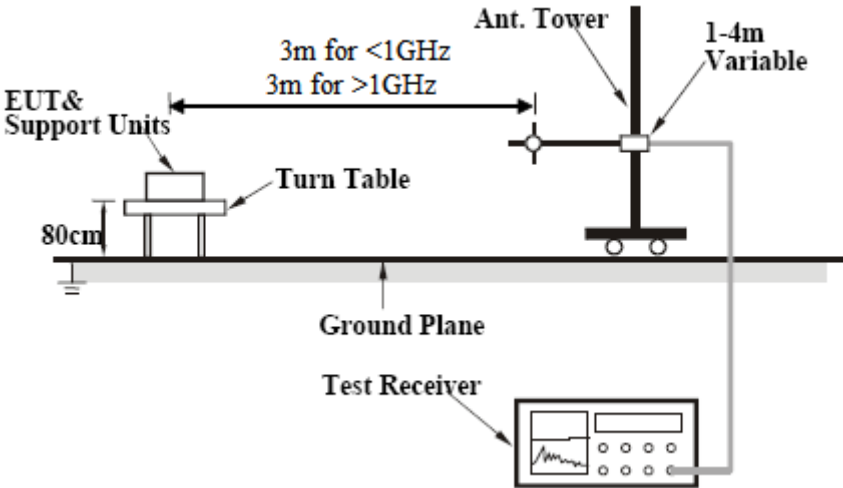
**Test Data**    ☐ Yes (See below)      ☒ N/A

**Test Plot**    ☐ Yes (See below)      ☒ N/A

**Note:** Peak Spectral Density only applied to digital modulated devices.

## 10.9 Peak Output Power

### Requirement(s):

| Spec                                 | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Applicable                                                                                            |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 47 CFR §15.247 (b)<br>RSS-210 (A2.6) | For all other frequency hopping systems in the 2400-2483.5band: 0.125 Watt.<br>The power is converted from watt to dBm, therefore, 1 watt = 30 dBm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input checked="" type="checkbox"/>                                                                   |
| Test Setup                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                       |
| Procedure                            | <ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> <li>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>Steps 2 was repeated for the next frequency point, until all selected frequency points were measured.</li> </ol> |                                                                                                       |
| Test Date                            | 08/07/2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Environmental condition<br>Temperature 24oC<br>Relative Humidity 47%<br>Atmospheric Pressure 1019mbar |
| Remark                               | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                       |
| Result                               | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                       |

Test Data    ☒ Yes (See below)      ☐ N/A

Test Plot    ☒ Yes (See below)      ☐ N/A

## Test Results:

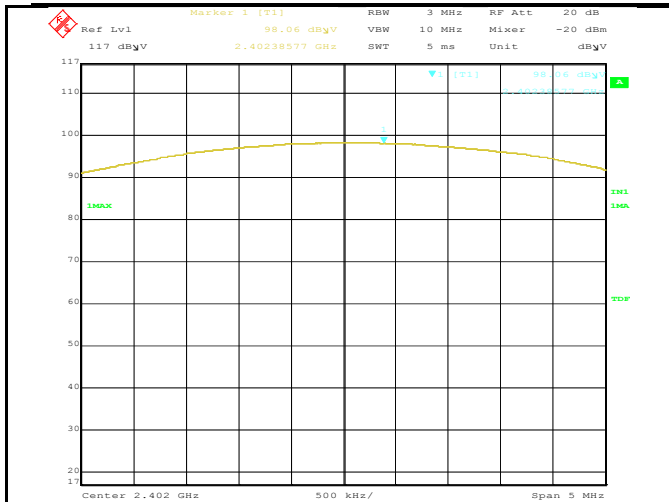
### Measurement Result (Bluetooth Mode, Basic Rate)

| Channel | Channel Frequency (MHz) | Amplifier (dB) | Antenna Gain (dB) | Cable Loss (dB) | Field Strength (dBuV/m) at 3 m | Converted Output Power (dBm) | EUT Antenna Gain (dBm) | Final Output Power (dBm) | Output Power Limit (dBm) |
|---------|-------------------------|----------------|-------------------|-----------------|--------------------------------|------------------------------|------------------------|--------------------------|--------------------------|
| Low     | 2402                    | 32.08          | 28.8              | 4.93            | 99.71                          | 4.48                         | 1.39                   | 3.09                     | 20.969                   |
| Mid     | 2441                    | 32.08          | 28.8              | 4.93            | 97.70                          | 2.47                         | 1.39                   | 1.08                     | 20.969                   |
| High    | 2480                    | 32.08          | 28.8              | 4.93            | 96.31                          | 1.08                         | 1.39                   | -0.31                    | 20.969                   |

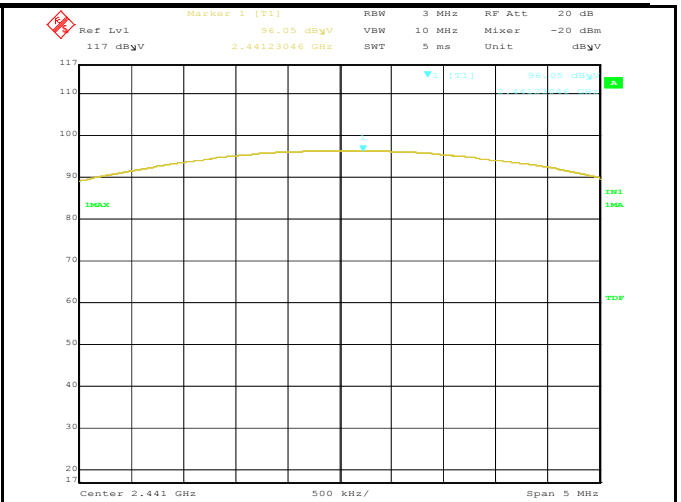
### Measurement Result ( Bluetooth Mode , EDR Mode, 3Mbps)

| Channel | Channel Frequency (MHz) | Amplifier (dB) | Antenna Gain (dB) | Cable Loss (dB) | Field Strength (dBuV/m) at 3 m | Converted Output Power (dBm) | EUT Antenna Gain (dBm) | Final Output Power (dBm) | Output Power Limit (dBm) |
|---------|-------------------------|----------------|-------------------|-----------------|--------------------------------|------------------------------|------------------------|--------------------------|--------------------------|
| Low     | 2402                    | 32.08          | 28.8              | 4.93            | 99.46                          | 4.23                         | 1.39                   | 2.84                     | 20.969                   |
| Mid     | 2441                    | 32.08          | 28.8              | 4.93            | 98.22                          | 2.99                         | 1.39                   | 1.60                     | 20.969                   |
| High    | 2480                    | 32.08          | 28.8              | 4.93            | 97.43                          | 2.20                         | 1.39                   | 0.81                     | 20.969                   |

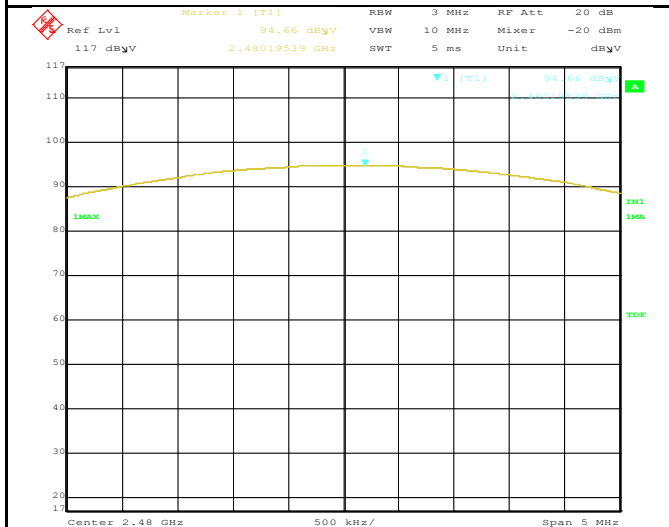
|                 |                              |
|-----------------|------------------------------|
| Test report No. | SL13070201-EQU-001-BT_Rev1.0 |
| Page            | 35 of 51                     |
| FCC ID          | NVA00008                     |
| IC ID           | N/A                          |



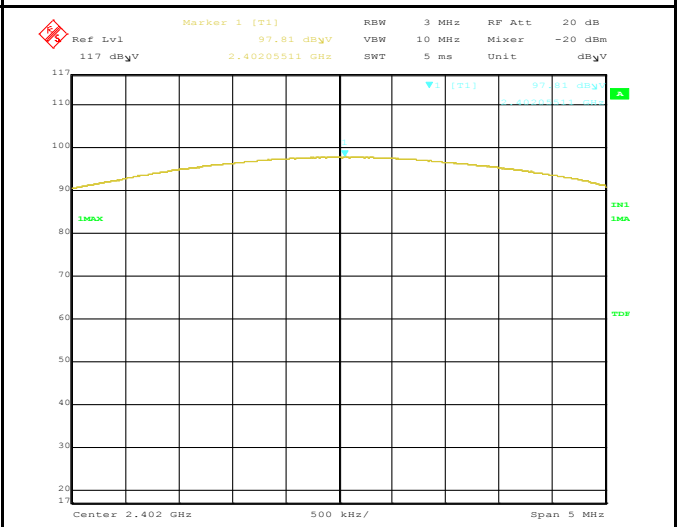
**Field Strength-Low Channel-Normal Mode**



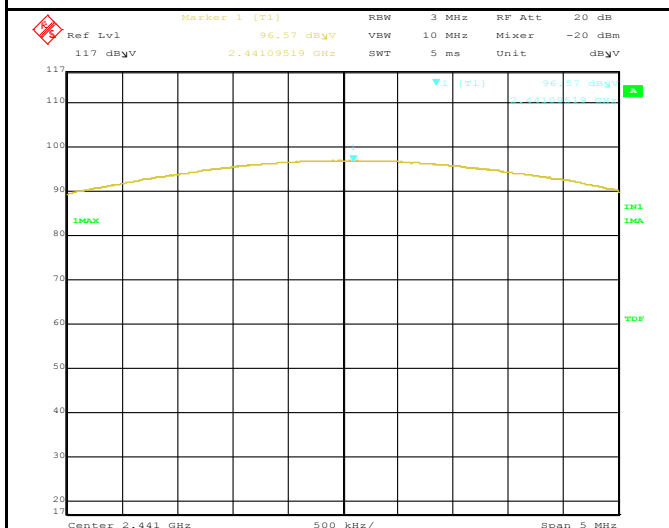
**Field Strength -Mid Channel-Normal Mode**



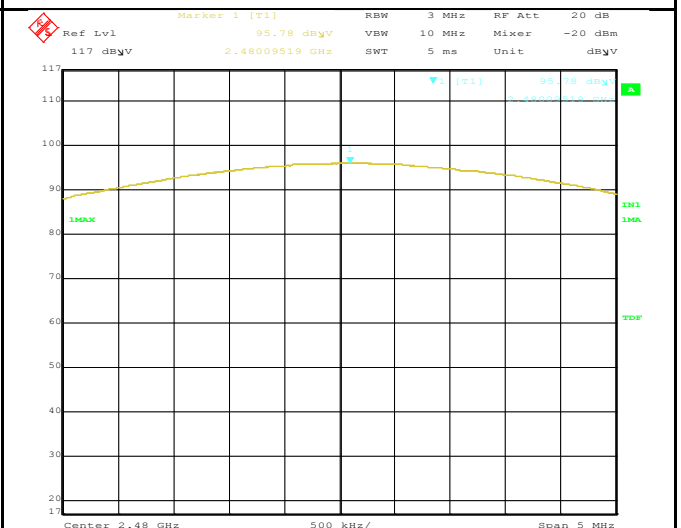
**Field Strength -High Channel-Normal Mode**



**Field Strength -Low Channel-EDR Mode**



**Field Strength -Mid Channel-EDR Mode**



**Field Strength -High Channel-EDR Mode**

## **10.10 Radiated Measurement**

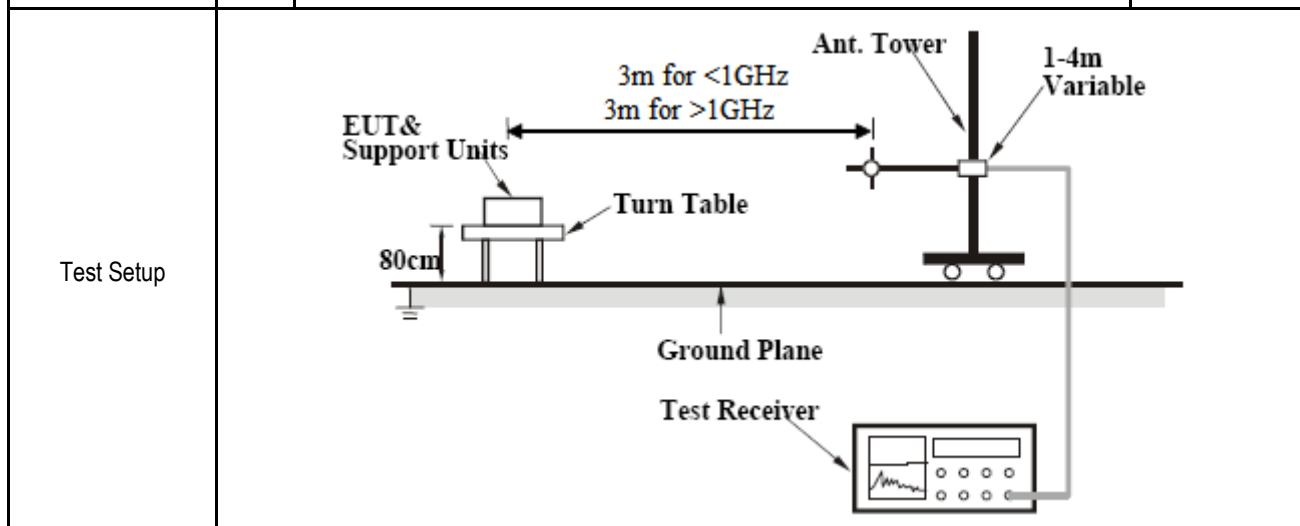
Receiver/Spectrum analyzer setting

| TEST                                       | Detector | RBW     | VBW           | Test Distance | NOTES |
|--------------------------------------------|----------|---------|---------------|---------------|-------|
| Radiated Emission < 1GHz<br>(30MHz – 1GHz) | PK/QP    | 100 KHz | 300 KHz       | 3m            | -     |
| Radiated Emission > 1GHz<br>(1GHz – 40GHz) | PK/AV    | 1 MHz   | 3 MHz / 10 Hz | 3m            | -     |
| Band Edge                                  | PK/AV    | 1 MHz   | 3 MHz         | 3m            | -     |

### 10.10.1 Radiated Measurement below 1GHz

#### Requirement(s):

| Spec                         | Item | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Applicable                          |
|------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| § 15.247(d),<br>RSS210(A8.5) | a)   | For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required<br><br><input type="checkbox"/> 20 dB down <input type="checkbox"/> 30 dB down | <input type="checkbox"/>            |
|                              | b)   | or restricted band, emission must also comply with the radiated emission limits specified in § 15.209(a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input checked="" type="checkbox"/> |

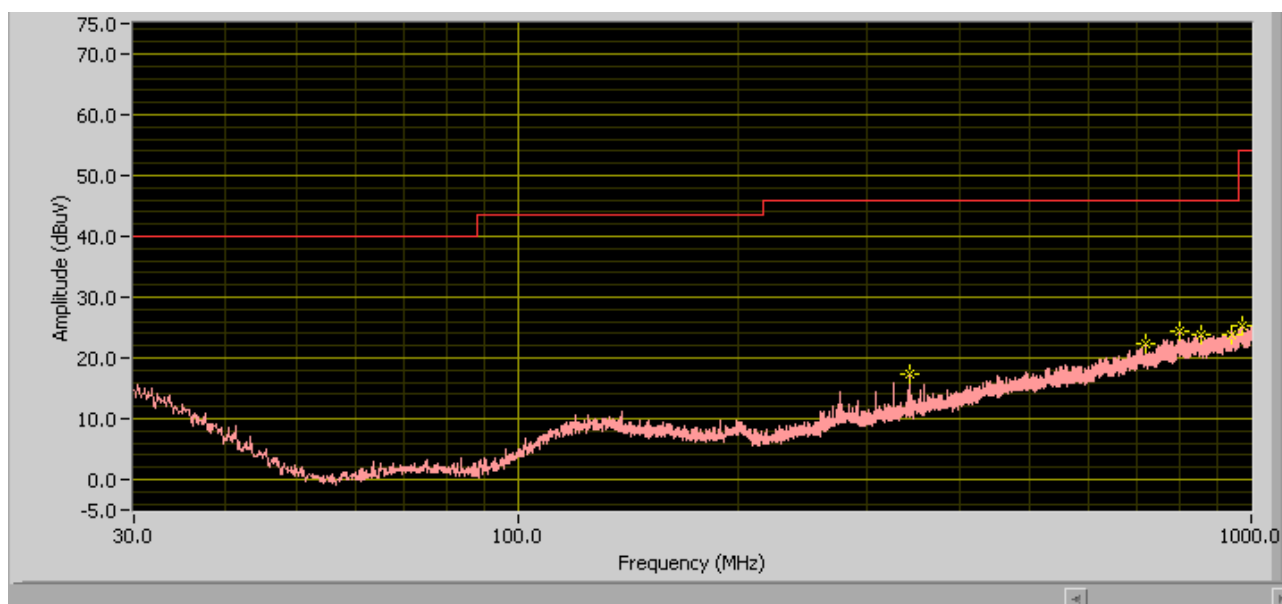


|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Procedure | <ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> <li>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>A Quasi-peak measurement was then made for that frequency point.</li> <li>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol> |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|           |                                                                        |                         |                                                                            |
|-----------|------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------|
| Test Date | 08/12/2013                                                             | Environmental condition | Temperature 24oC<br>Relative Humidity 49%<br>Atmospheric Pressure 1019mbar |
| Remark    | -                                                                      |                         |                                                                            |
| Result    | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail |                         |                                                                            |

**Test Data**    ☒ Yes (See below)      ☐ N/A  
**Test Plot**    ☒ Yes (See below)      ☐ N/A

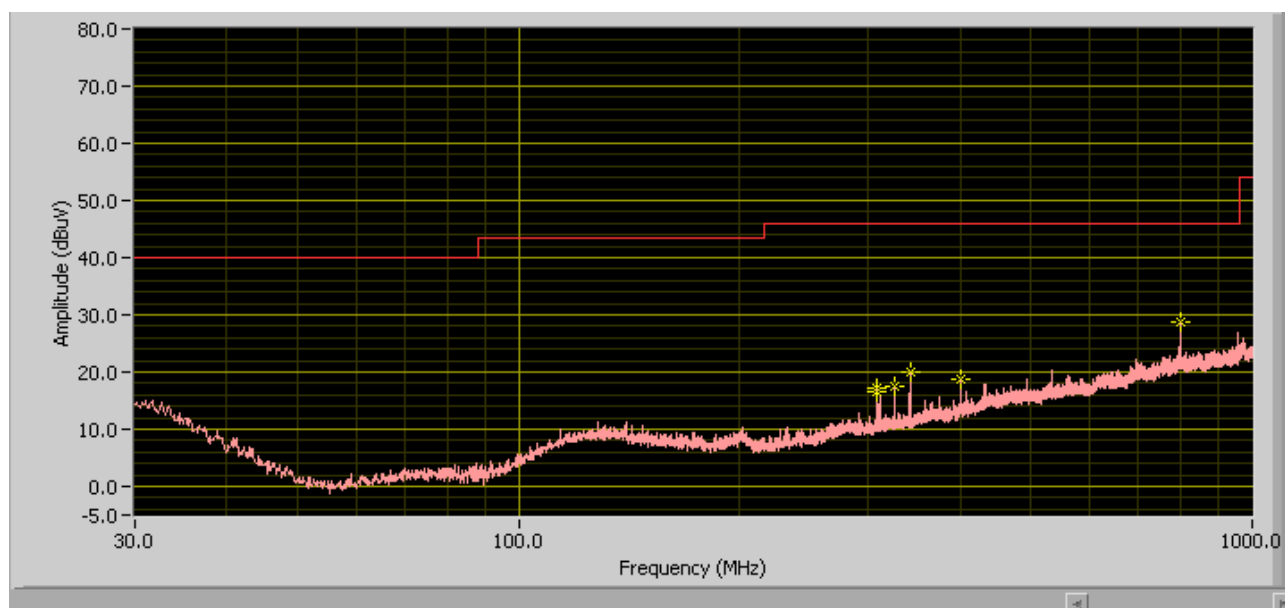
### Results & Graph for CFD Model:



### Test Data

| Frequency (MHz) | Reading (dBuV) | Azimuth | Polarit y (H/V) | Height (cm) | Cable Loss(dB) | Antenna Factor (dB) | Amplifi er (dB) | Correcte d (dBuV/m) | Limit (dBuV/ m) | Margin (dB) |
|-----------------|----------------|---------|-----------------|-------------|----------------|---------------------|-----------------|---------------------|-----------------|-------------|
| 970.59          | 31.31          | 221     | H               | 280         | 5.7            | 23.1                | 31.2            | 28.91               | 54.00           | -25.09      |
| 799.99          | 33.08          | 0       | H               | 100         | 5.2            | 21.1                | 31.4            | 27.98               | 46.00           | -18.01      |
| 939.14          | 31.28          | 1       | H               | 354         | 5.6            | 21.9                | 31.3            | 27.48               | 46.00           | -18.52      |
| 718.89          | 31.26          | 63      | H               | 301         | 4.9            | 19.6                | 31.4            | 24.36               | 46.00           | -21.64      |
| 854.17          | 31.21          | 18      | V               | 185         | 5.3            | 21                  | 31.3            | 26.21               | 46.00           | -19.73      |
| 341.66          | 34.22          | 263     | H               | 100         | 3              | 14                  | 31.7            | 19.52               | 46.00           | -26.48      |

# Results & Graph for AIO Model:

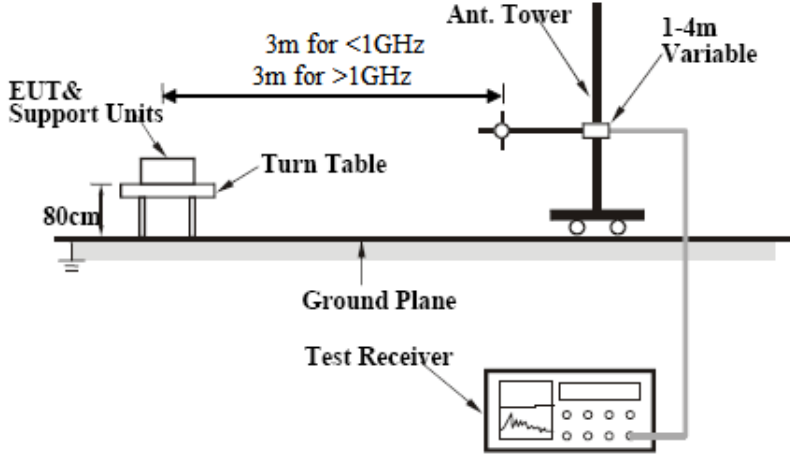


## Test Data

| Frequency (MHz) | Reading (dBuV) | Azimuth | Polarit y (H/V) | Height (cm) | Cable Loss(dB) | Antenna Factor (dB) | Amplifi er (dB) | Correcte d (dBuV/m) | Limit (dBuV/ m) | Margin (dB) |
|-----------------|----------------|---------|-----------------|-------------|----------------|---------------------|-----------------|---------------------|-----------------|-------------|
| 800.00          | 31.59          | 281     | H               | 381         | 5.2            | 21.1                | 31.4            | 26.49               | 46.00           | -19.51      |
| 324.99          | 31.36          | 145     | H               | 400         | 2.9            | 13.7                | 31.8            | 16.16               | 46.00           | -29.84      |
| 308.32          | 32.90          | 204     | H               | 133         | 2.8            | 13.2                | 31.8            | 17.11               | 46.00           | -28.90      |
| 341.66          | 35.52          | 145     | H               | 111         | 3              | 14                  | 31.7            | 20.82               | 46.00           | -25.18      |
| 308.34          | 35.20          | 129     | H               | 100         | 2.8            | 13.2                | 31.8            | 19.40               | 46.00           | -26.60      |
| 400.01          | 32.35          | 356     | V               | 210         | 3.2            | 15.3                | 31.7            | 19.15               | 46.00           | -26.85      |

## 10.10.2 Radiated Spurious Emissions > 1GHz & Band Edge

### Requirement(s):

| Spec                         | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Applicable                                                                 |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| § 15.247(d),<br>RSS210(A8.5) | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required<br><br><input type="checkbox"/> 20 dB down <input type="checkbox"/> 30 dB down | <input type="checkbox"/>                                                   |
|                              | b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | or restricted band, emission must also comply with the radiated emission limits specified in § 15.209(a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input checked="" type="checkbox"/>                                        |
| Test Setup                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                            |
| Procedure                    | <ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> <li>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>A Quasi-peak measurement was then made for that frequency point.</li> <li>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                            |
| Test Date                    | 08/06/2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Environmental condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Temperature 24oC<br>Relative Humidity 48%<br>Atmospheric Pressure 1019mbar |
| Remark                       | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                            |
| Result                       | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                            |

Test Data    ☒ Yes (See below)      ☐ N/A

Test Plot    ☒ Yes (See below)      ☐ N/A

### Test Results for CFD Model:

#### Normal Mode - Radiated Spurious Emissions

##### Low Channel @ 2402MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                                                                                                                                                                      | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 4803.8          | 173                                                                                                                                                                                                                                                                                     | 1.05       | V              | 32.9              | 3.76            | 32.55          | 58.16                           | 74                         | -15.84          | PK                |
| 4803.8          | 173                                                                                                                                                                                                                                                                                     | 1.05       | V              | 32.9              | 3.76            | 32.55          | 49.93                           | 54                         | -4.07           | AV                |
| 7206.5          | 183                                                                                                                                                                                                                                                                                     | 1.00       | H              | 35.10             | 3.18            | 32.39          | 63.60                           | 74                         | -10.4           | PK                |
| 7206.5          | 183                                                                                                                                                                                                                                                                                     | 1.00       | H              | 35.10             | 3.18            | 32.39          | 50.32                           | 54                         | -3.68           | AV                |
| Remark          | Emission was scanned up to 40GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit; both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

##### Mid Channel @ 2441MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                                                                                                                                                                      | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 4882.3          | 170                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 55.14                           | 74                         | -18.86          | PK                |
| 4882.3          | 170                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 48.41                           | 54                         | -5.59           | AV                |
| 7322.7          | 193                                                                                                                                                                                                                                                                                     | 1.05       | H              | 35.10             | 3.18            | 32.39          | 62.83                           | 74                         | -11.7           | PK                |
| 7322.7          | 193                                                                                                                                                                                                                                                                                     | 1.05       | H              | 35.10             | 3.18            | 32.39          | 49.37                           | 54                         | -4.63           | AV                |
| Remark          | Emission was scanned up to 40GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit; both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

##### High Channel @ 2480MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                                                                                                                                                                      | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 4960.3          | 135                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 54.06                           | 74                         | -19.94          | PK                |
| 4960.3          | 135                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 47.14                           | 54                         | -6.86           | AV                |
| 7440.5          | 133                                                                                                                                                                                                                                                                                     | 1.05       | H              | 35.10             | 3.18            | 32.39          | 61.20                           | 74                         | -12.80          | PK                |
| 7440.5          | 133                                                                                                                                                                                                                                                                                     | 1.05       | H              | 35.10             | 3.18            | 32.39          | 48.13                           | 54                         | -5.87           | AV                |
| Remark          | Emission was scanned up to 40GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit; both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

#### Normal mode - Band Edge

##### 2400MHz-2483.5MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                            | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 2390            | 263                                                                                                                                           | 1.00       | V              | 28.8              | 2.52            | 32.08          | 42.32                           | 74                         | -31.68          | PK                |
| 2390            | 263                                                                                                                                           | 1.00       | V              | 28.8              | 2.52            | 32.08          | 29.63                           | 54                         | -24.37          | AV                |
| 2483.5          | 217                                                                                                                                           | 1.05       | V              | 30.3              | 2.52            | 32.34          | 49.53                           | 74                         | -24.47          | PK                |
| 2483.5          | 217                                                                                                                                           | 1.05       | V              | 30.3              | 2.52            | 32.34          | 39.98                           | 54                         | -14.02          | AV                |
| Remark          | Both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

## EDR Mode - Radiated Spurious Emissions

### Low Channel @ 2402MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                                                                                                                                                                      | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 4804.3          | 166                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 59.20                           | 74                         | -14.8           | PK                |
| 4804.3          | 166                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 48.48                           | 54                         | -5.52           | AV                |
| 7206.6          | 190                                                                                                                                                                                                                                                                                     | 1.00       | H              | 35.10             | 3.18            | 32.39          | 63.44                           | 74                         | -10.56          | PK                |
| 7206.6          | 190                                                                                                                                                                                                                                                                                     | 1.00       | H              | 35.10             | 3.18            | 32.39          | 50.78                           | 54                         | -3.22           | AV                |
| Remark          | Emission was scanned up to 40GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit; both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

### Mid Channel @ 2441MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                                                                                                                                                                      | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 4882.2          | 169                                                                                                                                                                                                                                                                                     | 1.05       | V              | 32.9              | 3.76            | 32.55          | 54.19                           | 74                         | -19.81          | PK                |
| 4882.2          | 169                                                                                                                                                                                                                                                                                     | 1.05       | V              | 32.9              | 3.76            | 32.55          | 44.43                           | 54                         | -9.51           | AV                |
| 7323.1          | 190                                                                                                                                                                                                                                                                                     | 1.05       | H              | 35.10             | 3.18            | 32.39          | 62.13                           | 74                         | -11.87          | PK                |
| 7323.1          | 190                                                                                                                                                                                                                                                                                     | 1.05       | H              | 35.10             | 3.18            | 32.39          | 49.15                           | 54                         | -4.85           | AV                |
| Remark          | Emission was scanned up to 40GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit; both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

### High Channel @ 2480MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                                                                                                                                                                      | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 4960.9          | 208                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 52.01                           | 74                         | -21.99          | PK                |
| 4960.9          | 208                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 42.83                           | 54                         | -11.17          | AV                |
| 7440.2          | 134                                                                                                                                                                                                                                                                                     | 1.00       | V              | 35.10             | 3.18            | 32.39          | 60.95                           | 74                         | -13.05          | PK                |
| 7440.2          | 134                                                                                                                                                                                                                                                                                     | 1.00       | V              | 35.10             | 3.18            | 32.39          | 49.02                           | 54                         | -4.98           | AV                |
| Remark          | Emission was scanned up to 40GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit; both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

## EDR mode - Band Edge

### 2400MHz-2483.5MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                            | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 2390            | 262                                                                                                                                           | 1.00       | V              | 28.8              | 2.52            | 32.08          | 50.44                           | 74                         | -23.56          | PK                |
| 2390            | 262                                                                                                                                           | 1.00       | V              | 28.8              | 2.52            | 32.08          | 30.27                           | 54                         | -23.73          | AV                |
| 2483.5          | 244                                                                                                                                           | 1.00       | V              | 30.3              | 2.52            | 32.34          | 51.54                           | 74                         | -22.46          | PK                |
| 2483.5          | 244                                                                                                                                           | 1.00       | V              | 30.3              | 2.52            | 32.34          | 41.48                           | 54                         | -12.52          | AV                |
| Remark          | Both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

## Test Results for AIO Model:

### Normal Mode - Radiated Spurious Emissions

#### Low Channel @ 2402MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                                                                                                                                                                      | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 4804.6          | 190                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 60.39                           | 74                         | -13.61          | PK                |
| 4804.6          | 190                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 49.56                           | 54                         | -4.44           | AV                |
| 7206.3          | 171                                                                                                                                                                                                                                                                                     | 1.00       | H              | 35.10             | 3.18            | 32.39          | 64.22                           | 74                         | -9.78           | PK                |
| 7206.3          | 171                                                                                                                                                                                                                                                                                     | 1.00       | H              | 35.10             | 3.18            | 32.39          | 50.97                           | 54                         | -3.03           | AV                |
| Remark          | Emission was scanned up to 40GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit; both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

#### Mid Channel @ 2441MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                                                                                                                                                                      | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 4881.8          | 182                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 58.17                           | 74                         | -15.83          | PK                |
| 4881.8          | 182                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 50.32                           | 54                         | -3.68           | AV                |
| 7322.8          | 211                                                                                                                                                                                                                                                                                     | 1.05       | H              | 35.10             | 3.18            | 32.39          | 64.54                           | 74                         | -9.46           | PK                |
| 7322.8          | 211                                                                                                                                                                                                                                                                                     | 1.05       | H              | 35.10             | 3.18            | 32.39          | 52.69                           | 54                         | -1.31           | AV                |
| Remark          | Emission was scanned up to 40GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit; both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

#### High Channel @ 2480MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                                                                                                                                                                      | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 4959.8          | 160                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 2.38            | 32.55          | 57.01                           | 74                         | -16.99          | PK                |
| 4959.8          | 160                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 2.38            | 32.55          | 47.67                           | 54                         | -6.33           | AV                |
| 7440.2          | 210                                                                                                                                                                                                                                                                                     | 1.00       | H              | 35.10             | 2.59            | 32.39          | 64.16                           | 74                         | -9.84           | PK                |
| 7440.2          | 210                                                                                                                                                                                                                                                                                     | 1.00       | H              | 35.10             | 2.59            | 32.39          | 53.07                           | 54                         | -0.93           | AV                |
| Remark          | Emission was scanned up to 40GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit; both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

### Normal mode - Band Edge

#### 2400MHz-2483.5MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                            | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 2390            | 264                                                                                                                                           | 1.00       | V              | 28.8              | 2.52            | 32.08          | 48.64                           | 74                         | -25.36          | PK                |
| 2390            | 264                                                                                                                                           | 1.00       | V              | 28.8              | 2.52            | 32.08          | 35.36                           | 54                         | -18.64          | AV                |
| 2483.5          | 258                                                                                                                                           | 1.00       | H              | 30.3              | 2.52            | 32.34          | 53.19                           | 74                         | -20.81          | PK                |
| 2483.5          | 258                                                                                                                                           | 1.00       | H              | 30.3              | 2.52            | 32.34          | 46.42                           | 54                         | -7.58           | AV                |
| Remark          | Both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

## EDR Mode - Radiated Spurious Emissions

### Low Channel @ 2402MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                                                                                                                                                                      | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 4804.1          | 166                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 59.20                           | 74                         | -14.8           | PK                |
| 4804.1          | 166                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 48.48                           | 54                         | -5.52           | AV                |
| 7206.1          | 190                                                                                                                                                                                                                                                                                     | 1.00       | H              | 35.10             | 3.18            | 32.39          | 63.44                           | 74                         | -10.56          | PK                |
| 7206.1          | 190                                                                                                                                                                                                                                                                                     | 1.00       | H              | 35.10             | 3.18            | 32.39          | 50.78                           | 54                         | -3.22           | AV                |
| Remark          | Emission was scanned up to 40GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit; both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

### Mid Channel @ 2441MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                                                                                                                                                                      | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 4882.2          | 169                                                                                                                                                                                                                                                                                     | 1.05       | V              | 32.9              | 3.76            | 32.55          | 54.19                           | 74                         | -19.81          | PK                |
| 4882.2          | 169                                                                                                                                                                                                                                                                                     | 1.05       | V              | 32.9              | 3.76            | 32.55          | 44.43                           | 54                         | -9.51           | AV                |
| 7323.1          | 190                                                                                                                                                                                                                                                                                     | 1.05       | H              | 35.10             | 3.18            | 32.39          | 62.13                           | 74                         | -11.87          | PK                |
| 7323.1          | 190                                                                                                                                                                                                                                                                                     | 1.05       | H              | 35.10             | 3.18            | 32.39          | 49.15                           | 54                         | -4.85           | AV                |
| Remark          | Emission was scanned up to 40GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit; both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

### High Channel @ 2480MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                                                                                                                                                                      | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 4960.9          | 208                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 52.01                           | 74                         | -21.99          | PK                |
| 4960.9          | 208                                                                                                                                                                                                                                                                                     | 1.00       | V              | 32.9              | 3.76            | 32.55          | 42.83                           | 54                         | -11.17          | AV                |
| 7440.2          | 134                                                                                                                                                                                                                                                                                     | 1.00       | V              | 35.10             | 3.18            | 32.39          | 60.95                           | 74                         | -13.05          | PK                |
| 7440.2          | 134                                                                                                                                                                                                                                                                                     | 1.00       | V              | 35.10             | 3.18            | 32.39          | 49.02                           | 54                         | -4.98           | AV                |
| Remark          | Emission was scanned up to 40GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit; both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

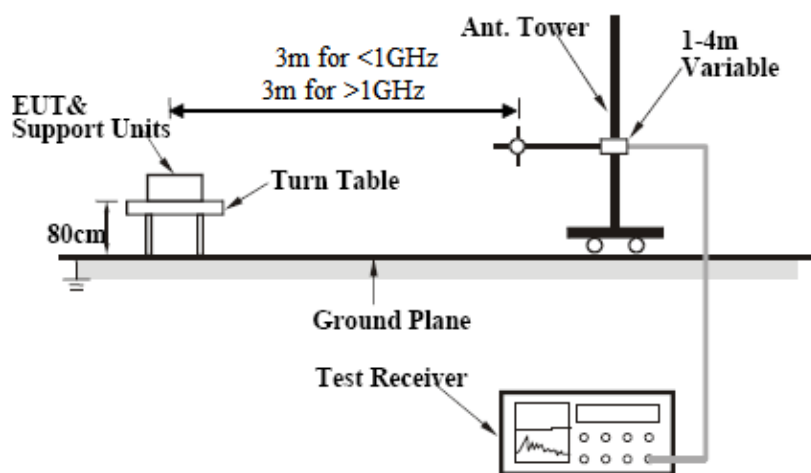
## EDR mode - Band Edge

### 2400MHz-2483.5MHz @ 3 Meter

| Frequency (MHz) | Direction (degree)                                                                                                                            | Height (m) | Polarity (H/V) | Antenna Loss (dB) | Cable Loss (dB) | Amplifier (dB) | Corrected Reading @ 3m (dBuV/m) | 15.247 Limit @ 3m (dBuV/m) | Margin (dBuV/m) | Detector (pk/avg) |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|-------------------|-----------------|----------------|---------------------------------|----------------------------|-----------------|-------------------|
| 2390            | 262                                                                                                                                           | 1.00       | V              | 28.8              | 2.52            | 32.08          | 50.44                           | 74                         | -23.56          | PK                |
| 2390            | 262                                                                                                                                           | 1.00       | V              | 28.8              | 2.52            | 32.08          | 30.27                           | 54                         | -23.73          | AV                |
| 2483.5          | 244                                                                                                                                           | 1.00       | V              | 30.3              | 2.52            | 32.34          | 51.54                           | 74                         | -22.46          | PK                |
| 2483.5          | 244                                                                                                                                           | 1.00       | V              | 30.3              | 2.52            | 32.34          | 41.48                           | 54                         | -12.52          | AV                |
| Remark          | Both horizontal and vertical polarization had been verified. Both hopping mode and single channel continuous transmit mode had been verified. |            |                |                   |                 |                |                                 |                            |                 |                   |

### 10.10.3 Receiver Spurious Emissions

#### Requirement(s):

| Spec                         | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Applicable                                                           |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| § 15.247(d),<br>RSS210(A8.5) | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required<br><br><input type="checkbox"/> 20 dB down <input type="checkbox"/> 30 dB down | <input type="checkbox"/>                                             |
|                              | b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | or restricted band, emission must also comply with the radiated emission limits specified in § 15.209(a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/>                                             |
| Test Setup                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                      |
| Procedure                    | <ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> <li>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>A Quasi-peak measurement was then made for that frequency point.</li> <li>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                      |
| Test Date                    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Environmental condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Temperature N/A<br>Relative Humidity N/A<br>Atmospheric Pressure N/A |
| Remark                       | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                      |
| Result                       | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                      |

**Test Data**    ☐ Yes (See below)      ☒ N/A

**Test Plot**    ☐ Yes (See below)      ☒ N/A

**Note:** Only noise floor was detected. There's no outstanding emission.

## Annex A. TEST INSTRUMENT

| Instrument                         | Model   | Serial #    | Cal Date   | Cal Cycle | Cal Due    | In use                              |
|------------------------------------|---------|-------------|------------|-----------|------------|-------------------------------------|
| <b>Conducted Emissions</b>         |         |             |            |           |            |                                     |
| R & S Receiver                     | ESIB 40 | 100179      | 04/20/2012 | 1 Year    | 04/20/2013 |                                     |
| R&S LISN                           | ESH2-Z5 | 861741/013  | 05/18/2012 | 1 Year    | 05/18/2013 | <input type="checkbox"/>            |
| CHASE LISN                         | MN2050B | 1018        | 07/24/2012 | 1 Year    | 07/24/2013 | <input type="checkbox"/>            |
| Sekonic Hygro Hermograph           | ST-50   | HE01-000092 | 05/25/2012 | 1 Year    | 05/25/2013 | <input type="checkbox"/>            |
| <b>Radiated Emissions</b>          |         |             |            |           |            |                                     |
| R & S Receiver                     | ESL6    | 100178      | 03/01/2013 | 1 Year    | 03/01/2014 | <input checked="" type="checkbox"/> |
| R & S Receiver                     | ESIB 40 | 100179      | 04/20/2013 | 1 Year    | 04/20/2014 | <input checked="" type="checkbox"/> |
| Bi-Log antenna (30MHz~2GHz)        | JB1     | A030702     | 02/09/2013 | 1 Year    | 02/09/2014 | <input checked="" type="checkbox"/> |
| Horn Antenna (1-26.5GHz)           | 3115    | 10SL0059    | 04/26/2013 | 1 Year    | 04/26/2014 | <input checked="" type="checkbox"/> |
| Horn Antenna (18-40 GHz)           | AH-840  | 101013      | 04/23/2012 | 1 Year    | 04/23/2013 | <input type="checkbox"/>            |
| Pre-Amplifier (1-26.5GHz)          | 8449B   | 3008A00715  | 05/30/2012 | 1 Year    | 05/30/2013 | <input checked="" type="checkbox"/> |
| Microwave Preamplifier (18-40 GHz) | PA-840  | 181251      | 05/30/2012 | 1 Year    | 05/30/2013 | <input type="checkbox"/>            |
| 3 Meters SAC                       | 3M      | N/A         | 10/13/2011 | 1 Year    | 10/13/2012 | <input type="checkbox"/>            |
| 10 Meters OATS                     | 10M     | N/A         | 06/05/2013 | 1 Year    | 06/05/2014 | <input checked="" type="checkbox"/> |
| Sekonic Hygro Hermograph           | ST-50   | HE01-000092 | 05/25/2013 | 1 Year    | 05/25/2014 | <input checked="" type="checkbox"/> |
| Sekonic Hygro Hermograph           | ST-50   | HE01-000092 | 05/25/2013 | 1 Year    | 05/25/2014 | <input checked="" type="checkbox"/> |
| Power Analyzer                     | PACS-1  | 72394       | 5/19/2013  | 1 Year    | 05/19/2014 | <input type="checkbox"/>            |
| Sekonic Hygro Hermograph           | ST-50   | HE01-000092 | 05/25/2013 | 1 Year    | 05/25/2014 | <input checked="" type="checkbox"/> |

|                 |                              |
|-----------------|------------------------------|
| Test report No. | SL13070201-EQU-001-BT_Rev1.0 |
| Page            | 47 of 51                     |
| FCC ID          | NVA00008                     |
| IC ID           | N/A                          |

## **Annex B. USER MANUAL, BLOCK & CIRCUIT DIAGRAM**

Please see attachment

## Annex C. SIEMIC Accreditation

| Accreditations                          | Document                                                                            | Scope / Remark                                                                          |
|-----------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| ISO 17025 (A2LA)                        |    | Please see the documents for the detailed scope                                         |
| ISO Guide 65 (A2LA)                     |    | Please see the documents for the detailed scope                                         |
| TCB Designation                         |                                                                                     | A1, A2, A3, A4, B1, B2, B3, B4, C                                                       |
| FCC DoC Accreditation                   |    | FCC Declaration of Conformity Accreditation                                             |
| FCC Site Registration                   |    | 3 meter site                                                                            |
| FCC Site Registration                   |    | 10 meter site                                                                           |
| IC Site Registration                    |    | 3 meter site                                                                            |
| IC Site Registration                    |    | 10 meter site                                                                           |
| EU NB                                   |  | <b>Radio &amp; Telecommunications Terminal Equipment:</b><br>EN45001 – EN ISO/IEC 17025 |
|                                         |  | <b>Electromagnetic Compatibility:</b><br>EN45001 – EN ISO/IEC 17025                     |
| Singapore iDA<br>CB(Certification Body) |  | Phase I, Phase II                                                                       |
| Vietnam MIC<br>CAB Accreditation        |  | Please see the document for the detailed scope                                          |
| HongKong OFCA                           |  | <b>(Phase II)</b> OFCA Foreign Certification Body for Radio and Telecom                 |
|                                         |  | <b>(Phase I)</b> Conformity Assessment Body for Radio and Telecom                       |
| Industry Canada CAB                     |  | <b>Radio:</b> Scope A – All Radio Standard Specification in Category I                  |
|                                         |  | <b>Telecom:</b> CS-03 Part I, II, V, VI, VII, VIII                                      |

|                                                 |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Japan Recognized Certification Body Designation |    | <b>Radio</b> : A1. Terminal equipment for purpose of calling<br><b>Telecom</b> : B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Korea CAB Accreditation                         |    | <b>EMI</b> : KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI<br>KN22: Test Method for EMI<br><b>EMS</b> : KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS<br>KN24, KN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS<br><br><b>Radio</b> : RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21, RRL Notice 2007-80, RRL Notice 2004-68<br><br><b>Telecom</b> : President Notice 20664, RRL Notice 2007-30, RRL Notice 2008-7 with attachments 1, 3, 5, 6; President Notice 20664, RRL Notice 2008-7 with attachment 4 |
| Taiwan NCC CAB Recognition                      |  | LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Taiwan BSMI CAB Recognition                     |  | CNS 13438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Japan VCCI                                      |  | R-3083: Radiation 3 meter site<br>C-3421: Main Ports Conducted Interference Measurement<br>T-1597: Telecommunication Ports Conducted Interference Measurement                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Australia CAB Recognition                       |  | <b>EMC</b> : AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4<br><br><b>Radiocommunications</b> : AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771<br><br><b>Telecommunications</b> : AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06, AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/ACIF S60950.1                                                                                                         |
| Australia NATA Recognition                      |  | AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016, AS/ACIF S031, AS/ACIF S038, AS/ACIF S040, AS/ACIF S041, AS/ACIF S043.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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| IC ID           | N/A                          |

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