

# FCC Test Report

Equipment : PowerLine AV2 1000 Wireless AC1200 Extender  
Brand Name : D-Link  
Model No. : DHP-W610AV  
FCC ID : KA2HPW610AVA1  
Standard : 47 CFR FCC Part 15.247  
Operating Band : 2400 MHz – 2483.5 MHz  
Function : ☒ Point-to-multipoint; ☐ Point-to-point  
Applicant : D-Link Corporation  
No.289, Sinhu 3rd Rd., Neihu District, Taipei City 114,  
Taiwan, R.O.C.

The product sample received on Sep. 23, 2016 and completely tested on Oct. 24, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

  
Sam Chen  
SPORTON INTERNATIONAL INC.

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## Summary of Test Result

| Conformance Test Specifications |                  |                                             |                                   |          |
|---------------------------------|------------------|---------------------------------------------|-----------------------------------|----------|
| Report Clause                   | Ref. Std. Clause | Description                                 | Limit                             | Result   |
| 1.1.2                           | 15.203           | Antenna Requirement                         | FCC 15.203                        | Complied |
| 3.1                             | 15.207           | AC Power-line Conducted Emissions           | FCC 15.207                        | Complied |
| 3.2                             | 15.247(a)        | DTS Bandwidth                               | ≥500kHz                           | Complied |
| 3.3                             | 15.247(b)        | Maximum Conducted Output Power              | Power [dBm]:30                    | Complied |
| 3.4                             | 15.247(e)        | Power Spectral Density                      | PSD [dBm/3kHz]:8                  | Complied |
| 3.5                             | 15.247(d)        | Emissions in Non-restricted Frequency Bands | Non-Restricted Bands:<br>> 30 dBc | Complied |
| 3.6                             | 15.247(d)        | Emissions in Restricted Frequency Bands     | Restricted Bands:<br>FCC 15.209   | Complied |



SPORTON INTERNATIONAL INC.  
TEL : 886-3-3273456  
FAX : 886-3-3270973  
FCC ID: KA2HPW610AVA1

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Frequency (MHz) | Channel Number |
|-----------------------|------------------|---------------------|----------------|
| 2400-2483.5           | g, n (HT20)      | 2412-2462           | 1-11 [11]      |
| 2400-2483.5           | n (HT40)         | 2422-2452           | 3-9 [7]        |

| Band | Mode | BWch (MHz) | Nant |
|------|------|------------|------|
| 2.4G | 11g  | 20         | 2    |
| 2.4G | HT20 | 20         | 2    |
| 2.4G | HT40 | 40         | 2    |

Note:

- 2.4G is the 2.4GHz Band (2.4-2.4835GHz).
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

### 1.1.2 Antenna Information

| Ant. | Brand   | Model Name       | Antenna Type   | Connector | Gain (dBi) |      |
|------|---------|------------------|----------------|-----------|------------|------|
|      |         |                  |                |           | 2.4GHz     | 5GHz |
| 1    | Hong Bo | DB_ANT-2 TO IPEX | Dipole Antenna | I-PEX     | 3.75       | 3.78 |
| 2    | Hong Bo | DB_ANT-1 TO IPEX | Dipole Antenna | I-PEX     | 4.26       | 2.95 |

Note: The EUT has two antennas.

**For IEEE 802.11a/g/n/ac mode (2TX/2RX):**

Ant.1 and Ant. 2 can be used as transmitting/receiving antenna.

Ant.1 and Ant. 2 could transmit/receive simultaneously.

### 1.1.3 Mode Test Duty Cycle

| Mode | DC    | T(s)   | VBW(Hz) ≥ 1/T |
|------|-------|--------|---------------|
| 11g  | 0.925 | 1.4m   | 1k            |
| HT20 | 0.607 | 1.313m | 1k            |
| HT40 | 0.864 | 652.5u | 3k            |

### 1.1.4 EUT Operational Condition

|                             |                          |                  |                                     |                     |
|-----------------------------|--------------------------|------------------|-------------------------------------|---------------------|
| <b>EUT Power Type</b>       | Internal power supply    |                  |                                     |                     |
| <b>Beamforming Function</b> | <input type="checkbox"/> | With beamforming | <input checked="" type="checkbox"/> | Without beamforming |

## 1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 558074 D01 v03r05
- ♦ FCC KDB 662911 D01 v02r01

## 1.3 Testing Location Information

| Testing Location                    |        |                                                                                  |                      |  |
|-------------------------------------|--------|----------------------------------------------------------------------------------|----------------------|--|
| <input type="checkbox"/>            | HWA YA | ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.   |                      |  |
|                                     |        | TEL : 886-3-327-3456                                                             | FAX : 886-3-318-0055 |  |
| <input checked="" type="checkbox"/> | JHUBEI | ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. |                      |  |
|                                     |        | TEL : 886-3-656-9065                                                             | FAX : 886-3-656-9085 |  |

| Test Condition | Test Site No. | Test Engineer                                                    | Test Environment | Test Date                           |
|----------------|---------------|------------------------------------------------------------------|------------------|-------------------------------------|
| RF Conducted   | TH01-CB       | Eddie Weng                                                       | 24°C / 58%       | Oct. 15, 2016<br> <br>Oct. 21, 2016 |
| Radiated       | 03CH01-CB     | Kenneth Huang, Jeff Wu,<br>Lucke Hsieh, Peter Wu,<br>Welson Chen | 24°C / 59%       | Sep. 28, 2016<br> <br>Oct. 24, 2016 |
| AC Conduction  | CO01-CB       | Edison Lin                                                       | 23°C / 66%       | Oct. 18, 2016                       |

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

## 1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Test Items                           | Uncertainty | Remark                   |
|--------------------------------------|-------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz)  | 3.2 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 3.6 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 3.7 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 3.5 dB      | Confidence levels of 95% |
| Conducted Emission                   | 1.7 dB      | Confidence levels of 95% |

## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

| Band | Mode | BWch (MHz) | Nss-Min | Nant | Ch. (MHz) | Range | Power Setting |
|------|------|------------|---------|------|-----------|-------|---------------|
| 2.4G | 11g  | 20         | 1       | 2    | 2412      | L     | 45/49         |
| 2.4G | 11g  | 20         | 1       | 2    | 2437      | M     | 59/63         |
| 2.4G | 11g  | 20         | 1       | 2    | 2462      | H     | 46/49         |
| 2.4G | HT20 | 20         | 1,(M0)  | 2    | 2412      | L     | 52/55         |
| 2.4G | HT20 | 20         | 1,(M0)  | 2    | 2437      | M     | 60/63         |
| 2.4G | HT20 | 20         | 1,(M0)  | 2    | 2462      | H     | 49/51         |
| 2.4G | HT40 | 40         | 1,(M0)  | 2    | 2422      | L     | 47/49         |
| 2.4G | HT40 | 40         | 1,(M0)  | 2    | 2437      | M     | 53/55         |
| 2.4G | HT40 | 40         | 1,(M0)  | 2    | 2452      | H     | 47/49         |

**Note:**

- ♦ Test range channel consist of L (Low Ch.), M (Middle Ch.), H (High Ch.), S (Single Ch.) and C (Straddle Band Ch.).



## 2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                                          |
|-----------------------------------------------------|----------------------------------------------------------|
| <b>Tests Item</b>                                   | AC power-line conducted emissions                        |
| <b>Condition</b>                                    | AC power-line conducted measurement for line and neutral |
| <b>Operating Mode</b>                               | Normal Link                                              |
| 1                                                   | Normal Link (The PLC of EUT performed "Idle Mode")       |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                          |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | DTS Bandwidth<br>Maximum Conducted Output Power<br>Power Spectral Density<br>Emissions in Non-restricted Frequency Bands |
| <b>Test Condition</b>                               | Conducted measurement at transmit chains                                                                                 |

| The Worst Case Mode for Following Conformance Tests                                                                                                                                             |                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                                                                                                                                                               | Emissions in Restricted Frequency Bands                                                                                                                                                                                                             |
| <b>Test Condition</b>                                                                                                                                                                           | Radiated measurement<br>If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |
| <b>Operating Mode &lt; 1GHz</b>                                                                                                                                                                 | Normal Link                                                                                                                                                                                                                                         |
| 1                                                                                                                                                                                               | Place EUT in Y axis                                                                                                                                                                                                                                 |
| 2                                                                                                                                                                                               | Place EUT in Z axis                                                                                                                                                                                                                                 |
| For operating mode 2 is the worst case and it was record in this test report.                                                                                                                   |                                                                                                                                                                                                                                                     |
| <b>Operating Mode &gt; 1GHz</b>                                                                                                                                                                 | CTX                                                                                                                                                                                                                                                 |
| The EUT was performed at Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration. |                                                                                                                                                                                                                                                     |
| 1                                                                                                                                                                                               | Place EUT in Y axis                                                                                                                                                                                                                                 |

| The Worst Case Mode for Following Conformance Tests                                                                                    |                                    |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Tests Item</b>                                                                                                                      | Simultaneous Transmission Analysis |
| <b>Test Condition</b>                                                                                                                  | Radiated measurement               |
| <b>Operating Mode</b>                                                                                                                  | Normal Link                        |
| 1                                                                                                                                      | Place EUT in Y axis                |
| 2                                                                                                                                      | Place EUT in Z axis                |
| For operating mode 2 is the worst case and it was record in this test report.                                                          |                                    |
| Refer to Sporton Test Report No.: FA680201-01 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location. |                                    |

## 2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

For AC power-line conducted emissions test:

The PLC function of EUT performed "Idle Mode" for the test.

During the test, the remote notebook executed "ping.exe" under WIN 7 to link with the EUT to maintain the connection by WLAN.

The remote notebook executed "WinTG2.0" to link with the EUT to control flow rate and traffic packet data by LAN.

For Radiated Emissions test(Below 1GHz):

During the test, the following programs under WIN XP were executed:

The remote notebook executed "ping.exe " to link with the EUT to maintain the connection by WLAN.

The remote notebook executed "iperf" and "WingTG 2.0" to link with the EUT to traffic packet data generated software and keep maximum traffic load by LAN.

The EUT and the device were connected through power network.

## 2.4 Accessories

| Accessories                     |
|---------------------------------|
| RJ-45 Cable*1: Non-shielded, 1m |

## 2.5 Support Equipment

For Test Site No: CO01-CB

| Support Equipment |           |            |            |        |
|-------------------|-----------|------------|------------|--------|
| No.               | Equipment | Brand Name | Model Name | FCC ID |
| 1                 | NB*3      | DELL       | E6430      | DoC    |

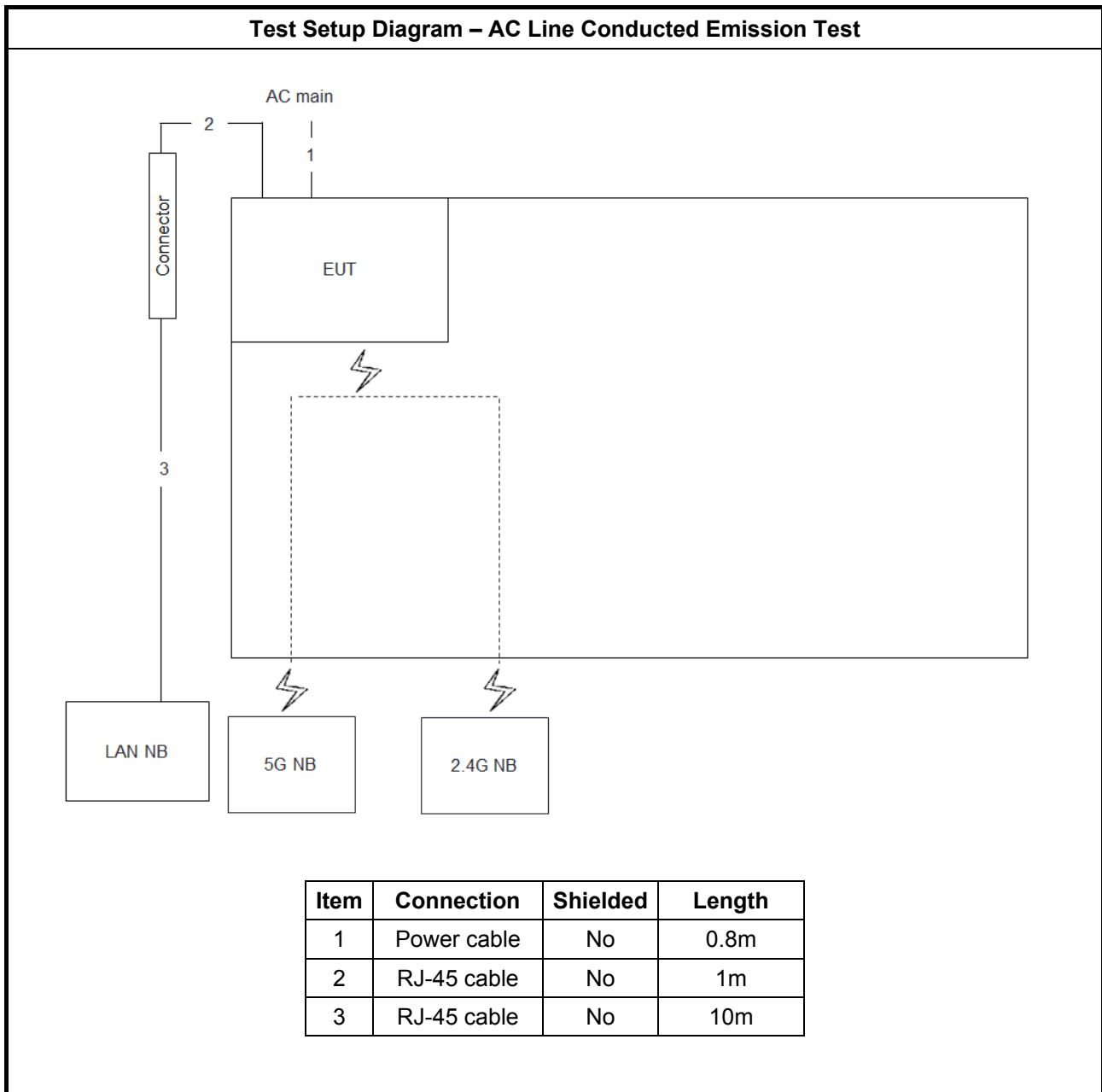
For Test Site No: 03CH01-CB (below 1GHz)

| Support Equipment |                                                               |            |            |               |
|-------------------|---------------------------------------------------------------|------------|------------|---------------|
| No.               | Equipment                                                     | Brand Name | Model Name | FCC ID        |
| 1                 | NB*4                                                          | DELL       | E4300      | DoC           |
| 2                 | PowerLine AV2 1000<br>Wireless AC1200<br>Extender<br>(Device) | D-Link     | DHP-W610AV | KA2HPW610AVA1 |

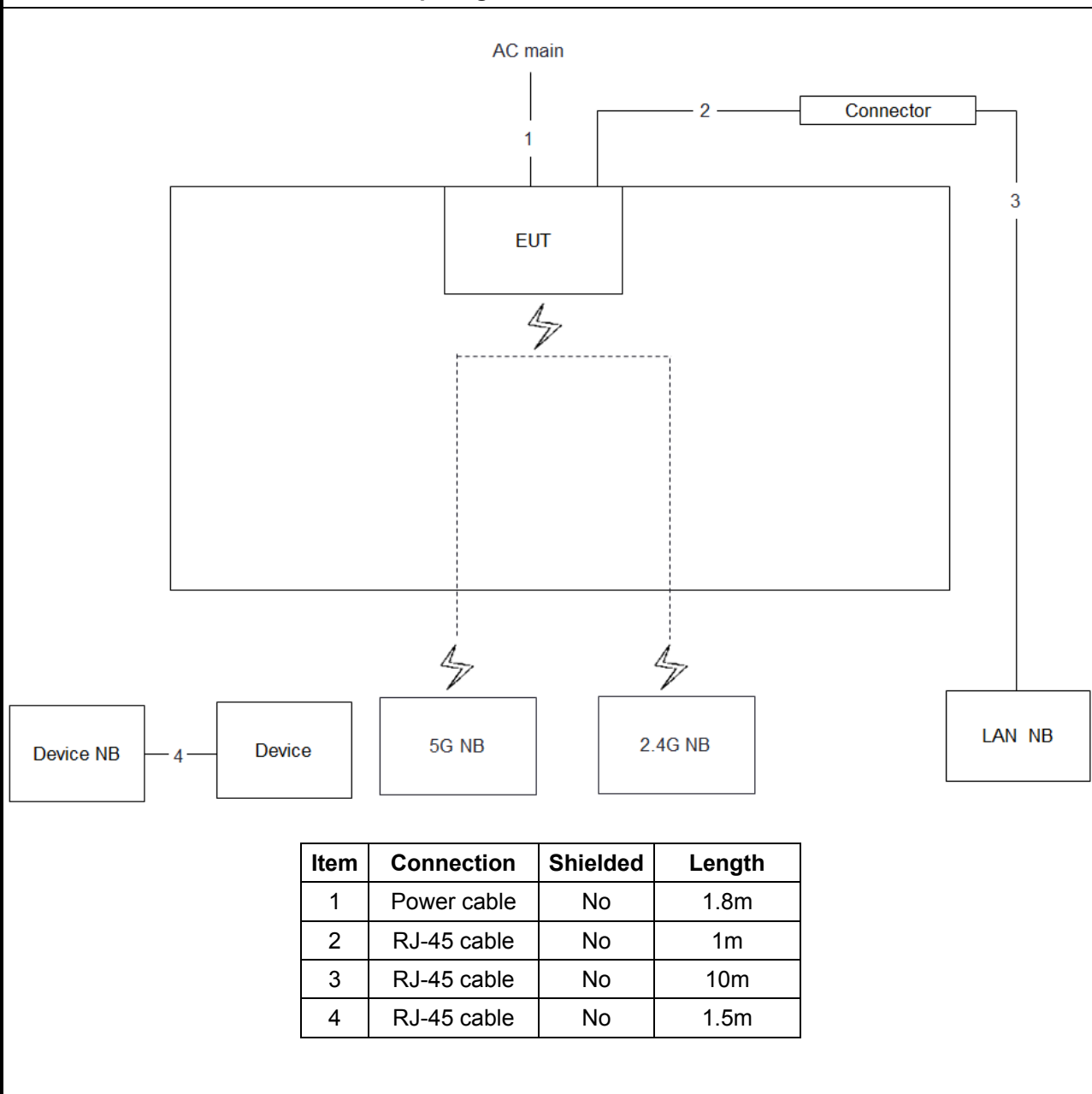
For Test Site No: TH01-CB and 03CH01-CB (above 1GHz)

| Support Equipment |           |            |            |        |
|-------------------|-----------|------------|------------|--------|
| No.               | Equipment | Brand Name | Model Name | FCC ID |
| 1                 | NB        | DELL       | E4300      | DoC    |

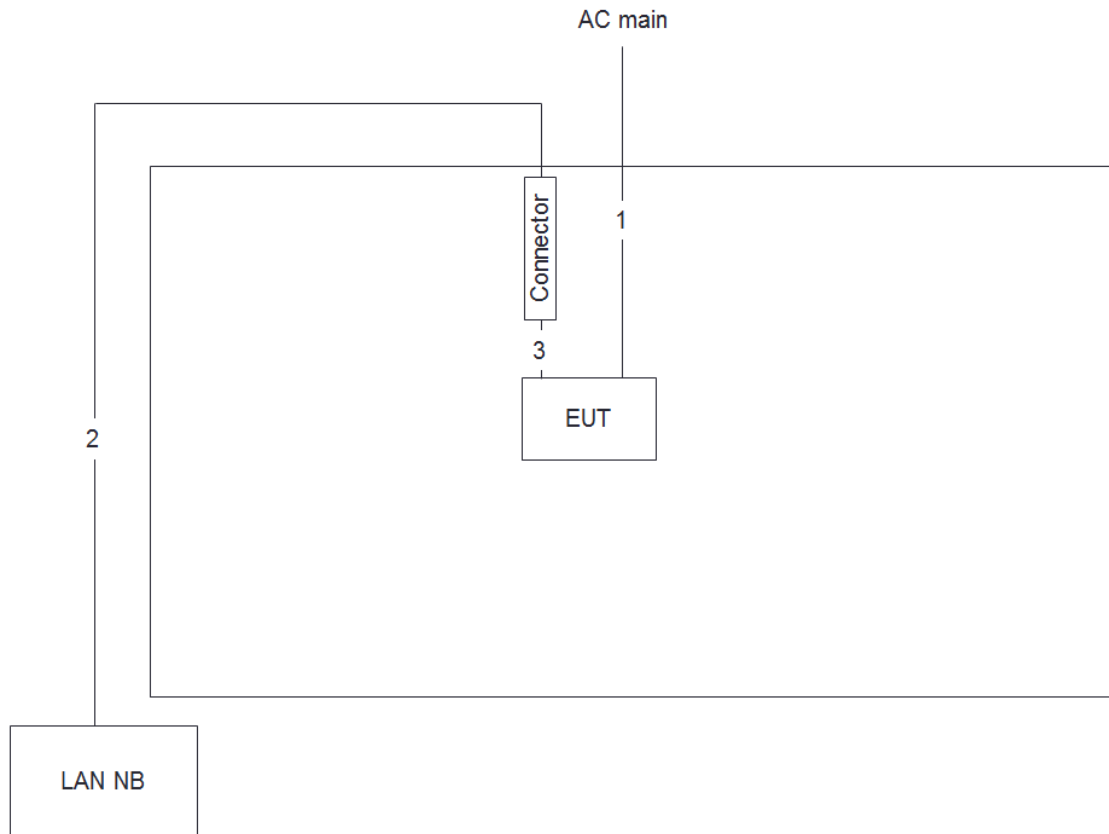
## 2.6 Test Setup Diagram



**Test Setup Diagram - Radiated Test < 1GHz**



Test Setup Diagram - Radiated Test > 1GHz



| Item | Connection         | Shielded | Length |
|------|--------------------|----------|--------|
| 1    | RJ-45 cable        | No       | 10m    |
| 2    | Power cable        | No       | 1.8m   |
| 3    | RJ-45 to USB cable | No       | 0.1m   |

### 3 Transmitter Test Result

### 3.1 AC Power-line Conducted Emissions

### 3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit |            |           |
|-----------------------------------------|------------|-----------|
| Frequency Emission (MHz)                | Quasi-Peak | Average   |
| 0.15-0.5                                | 66 - 56 *  | 56 - 46 * |
| 0.5-5                                   | 56         | 46        |
| 5-30                                    | 60         | 50        |

Note 1: \* Decreases with the logarithm of the frequency.

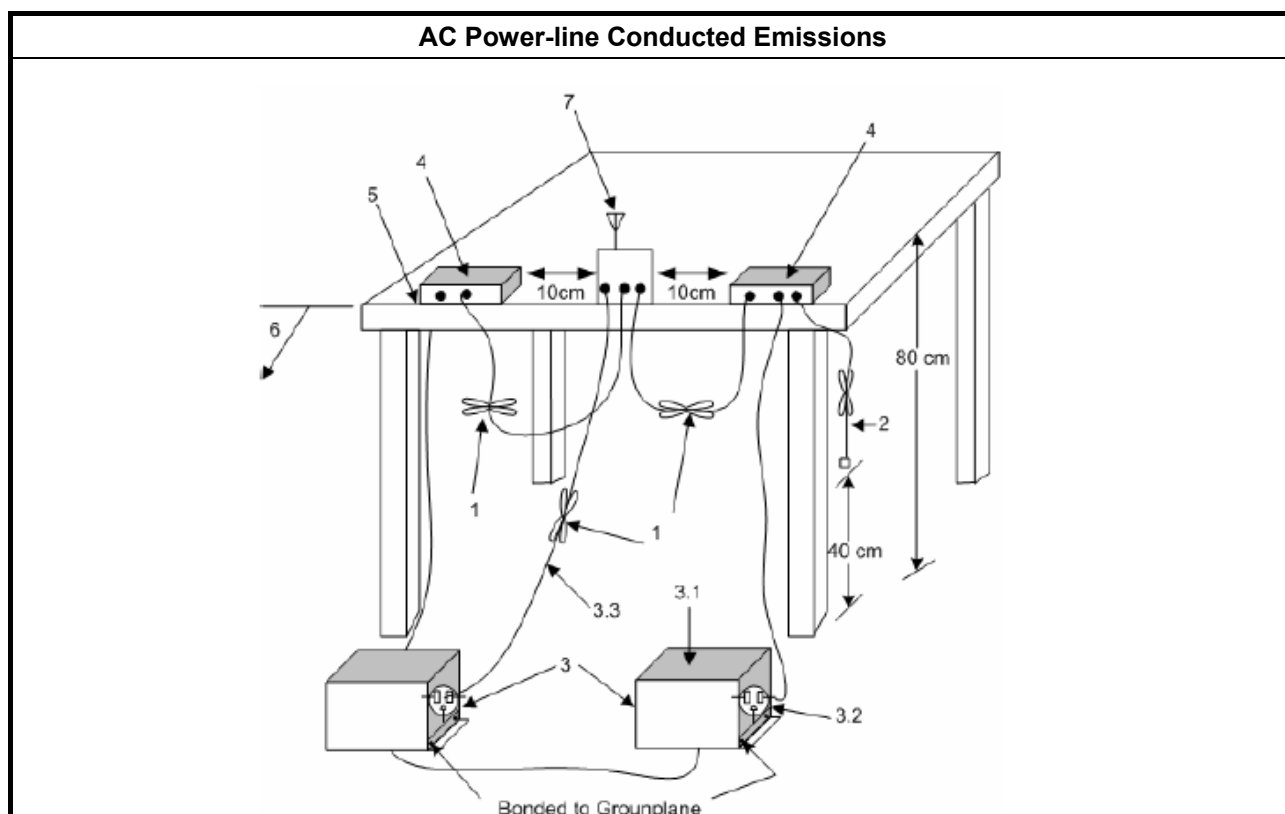
### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.1.3 Test Procedures

| Test Method                                                                                                      |
|------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

### 3.1.4 Test Setup





### **3.1.5 Test Result of AC Power-line Conducted Emissions**

Refer as Appendix A



## 3.2 DTS Bandwidth

### 3.2.1 6dB Bandwidth Limit

| 6dB Bandwidth Limit                                 |                                |
|-----------------------------------------------------|--------------------------------|
| <b>Systems using digital modulation techniques:</b> |                                |
| ▪                                                   | 6 dB bandwidth $\geq$ 500 kHz. |

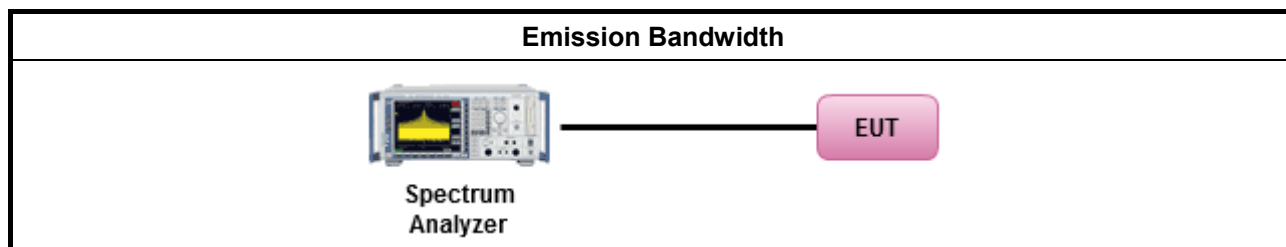
### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

| Test Method                         |                                                                              |
|-------------------------------------|------------------------------------------------------------------------------|
| ▪                                   | For the emission bandwidth shall be measured using one of the options below: |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement. |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement. |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.           |

### 3.2.4 Test Setup



### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit                                                                                                                              |                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                   | ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)                                           |
|                                                                                                                                                                   | ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm     |
|                                                                                                                                                                   | ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm        |
|                                                                                                                                                                   | ▪ Smart antenna system (SAS):                                                                        |
|                                                                                                                                                                   | - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm                         |
|                                                                                                                                                                   | - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm                        |
|                                                                                                                                                                   | - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm |
| $P_{Out}$ = maximum peak conducted output power or maximum conducted output power in dBm,<br>$G_{TX}$ = the maximum transmitting antenna directional gain in dBi. |                                                                                                      |

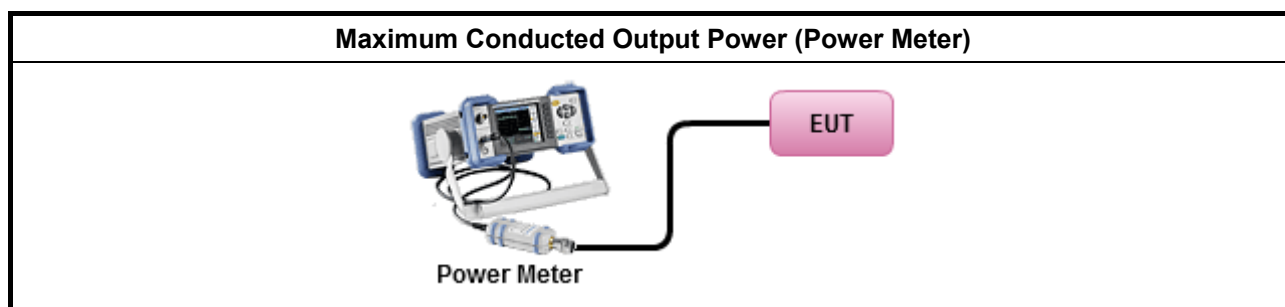
#### 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.3.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                            |                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Maximum Peak Conducted Output Power</li> </ul>                                                                                                                                                                                                                                                                                  |                                                                                         |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).                      |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW ≥ DTS BW)      |
| <ul style="list-style-type: none"> <li>Maximum Conducted Output Power</li> </ul>                                                                                                                                                                                                                                                                                       |                                                                                         |
| [duty cycle ≥ 98% or external video / power trigger]                                                                                                                                                                                                                                                                                                                   |                                                                                         |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).      |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)          |
| duty cycle < 98% and average over on/off periods with duty factor                                                                                                                                                                                                                                                                                                      |                                                                                         |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).      |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)          |
| RF power meter and average over on/off periods with duty factor or gated trigger                                                                                                                                                                                                                                                                                       |                                                                                         |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                    | Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM-G (using an RF average power meter). |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                               | Refer as FCC KDB 558074, clause 9.1.2 PKPM1 Peak power meter method.                    |
| <ul style="list-style-type: none"> <li>For conducted measurement.</li> </ul>                                                                                                                                                                                                                                                                                           |                                                                                         |
| <ul style="list-style-type: none"> <li>If the EUT supports multiple transmit chains using options given below:<br/>Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.</li> </ul> |                                                                                         |
| <ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP calculation could be following as methods:<br/> <math display="block">P_{total} = P_1 + P_2 + \dots + P_n</math> (calculated in linear unit [mW] and transfer to log unit [dBm])<br/> <math display="block">EIRP_{total} = P_{total} + DG</math> </li> </ul>                                  |                                                                                         |

### 3.3.4 Test Setup



### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

### 3.4 Power Spectral Density

#### 3.4.1 Power Spectral Density Limit

| Power Spectral Density Limit                                                                                |
|-------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Power Spectral Density (PSD) <math>\leq 8</math> dBm/3kHz</li> </ul> |

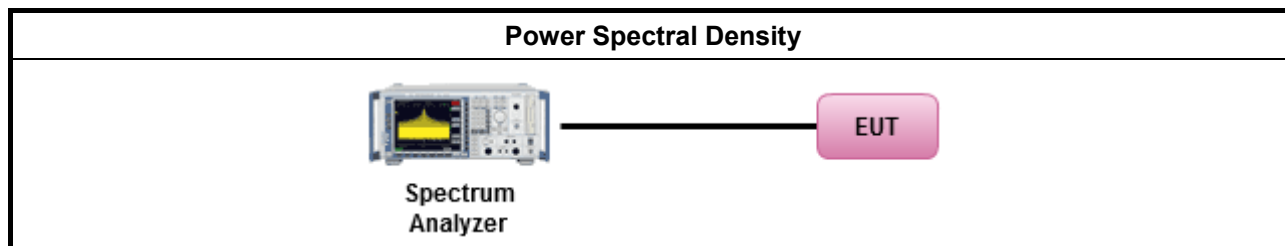
#### 3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.4.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).</li> </ul>                                                                                                         |
| <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).<br>[duty cycle $\geq 98\%$ or external video / power trigger]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 10.3 Method AVGPS-1 (spectral trace averaging).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 10.4 Method AVGPS-2 (slow sweep speed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| duty cycle $< 98\%$ and average over on/off periods with duty factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 10.5 Method AVGPS-1 Alt (spectral trace averaging).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input type="checkbox"/> Refer as FCC KDB 558074, clause 10.6 Method AVGPS-2 Alt. (slow sweep speed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>For conducted measurement.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>If The EUT supports multiple transmit chains using options given below:</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |
| <input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,                                                                                                                                                                                                                    |
| <input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.                                                                                                                                                                                                                                                                                                                             |

### 3.4.4 Test Setup



### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

### 3.5 Emissions in Non-restricted Frequency Bands

#### 3.5.1 Emissions in Non-restricted Frequency Bands Limit

| Un-restricted Band Emissions Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| RF output power procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Limit (dB) |
| Peak output power procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20         |
| Average output power procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30         |
| <p>Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.</p> <p>Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.</p> |            |

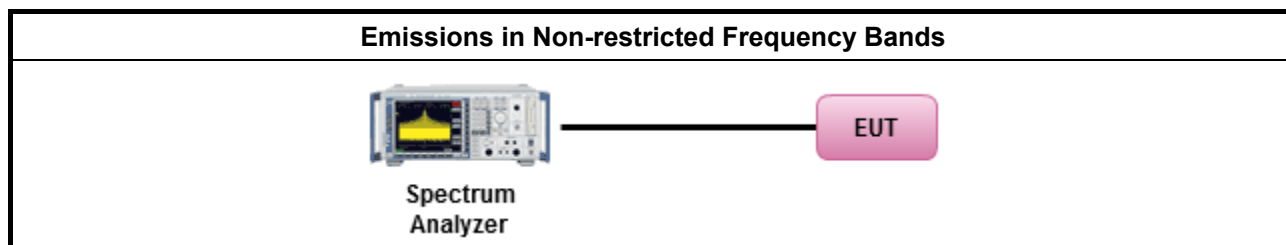
#### 3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.5.3 Test Procedures

| Test Method                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.</li> </ul> |

#### 3.5.4 Test Setup



#### 3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

### 3.6 Emissions in Restricted Frequency Bands

#### 3.6.1 Emissions in Restricted Frequency Bands Limit

| Restricted Band Emissions Limit |                       |                         |                      |
|---------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)           | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                     | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                     | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                      | 30                    | 29                      | 30                   |
| 30~88                           | 100                   | 40                      | 3                    |
| 88~216                          | 150                   | 43.5                    | 3                    |
| 216~960                         | 200                   | 46                      | 3                    |
| Above 960                       | 500                   | 54                      | 3                    |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

#### 3.6.2 Measuring Instruments

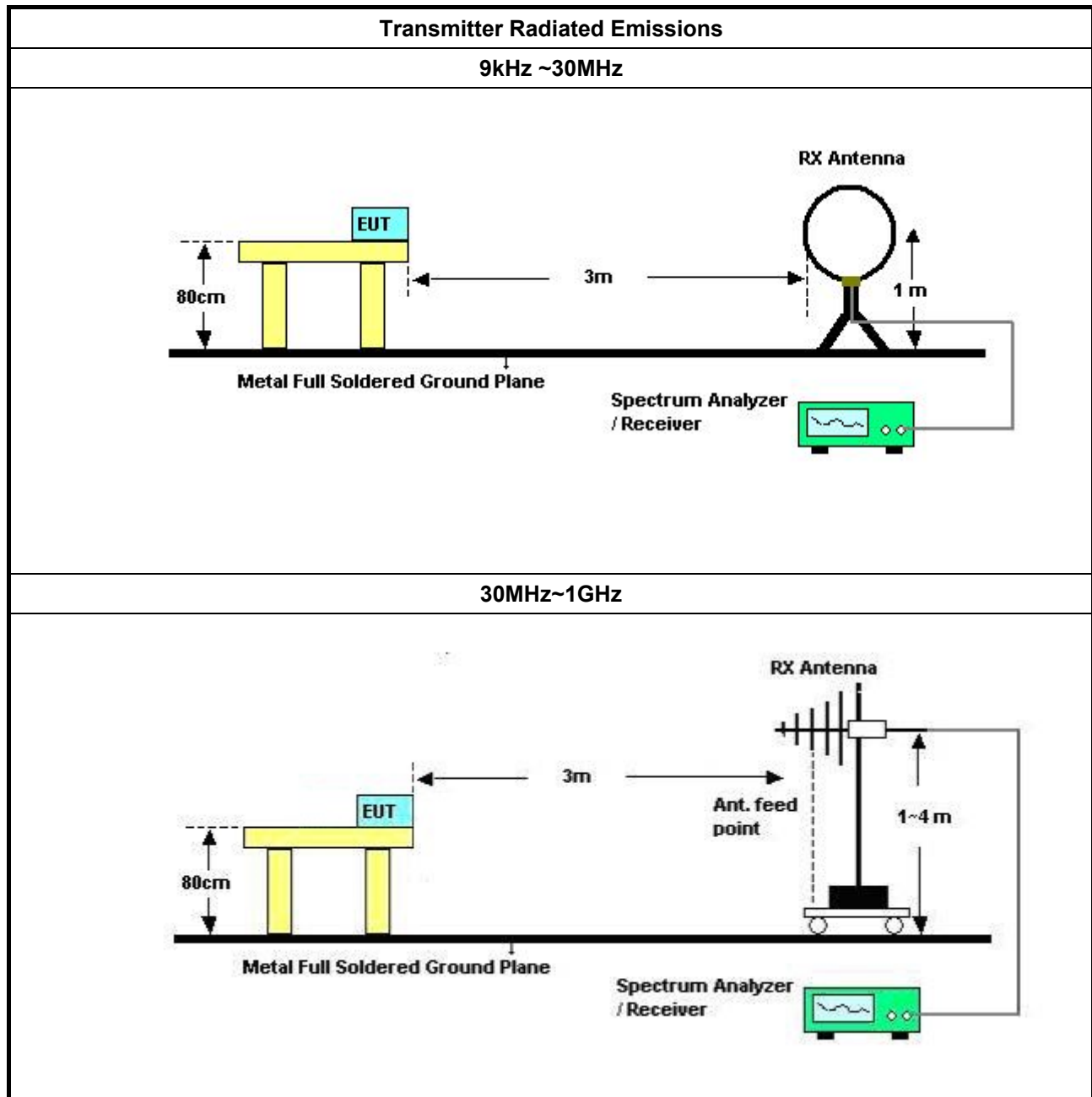
Refer a test equipment and calibration data table in this test report.

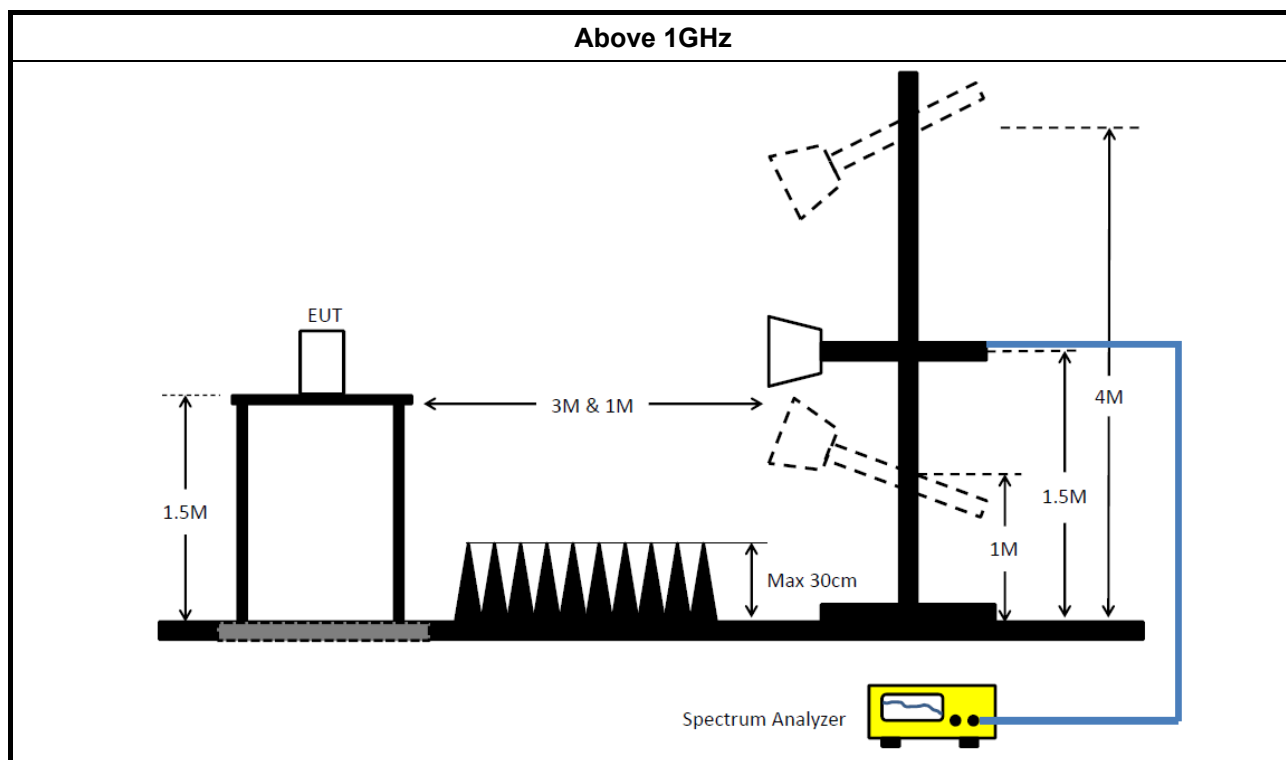
### 3.6.3 Test Procedures

| Test Method                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>The average emission levels shall be measured in [duty cycle <math>\geq 98</math> or duty factor].</li> </ul>                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.9.2.2 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.</li> </ul>                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                              | <input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$ )                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                              | <input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                              | <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$ ).                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                              | <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$ , where T is pulse time.                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                              | <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                              | <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.4 measurement procedure peak limit.                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>Refer as FCC KDB 558074 clause 13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.</li> </ul>                                                                                                                            |
|                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>Refer as FCC KDB 558074, clause 13.2 (ANSI C63.10, clause 6.9.3) for marker-delta method for band-edge measurements.</li> </ul>                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).</li> </ul>                                                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 12.2.2.</li> </ul>                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below:<br/>(1) Measure and sum the spectra across the outputs or<br/>(2) Measure and add <math>10 \log(N)</math> dB</li> </ul>                                                                             |
|                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.</li> </ul> |



### 3.6.4 Test Setup





### 3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

### 3.6.6 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F



## 4 Test Equipment and Calibration Data

| Instrument        | Manufacturer | Model No.        | Serial No.       | Characteristics | Calibration Date | Remark                |
|-------------------|--------------|------------------|------------------|-----------------|------------------|-----------------------|
| EMI Receiver      | Agilent      | N9038A           | My52260123       | 9kHz ~ 8.45GHz  | Jan. 27, 2016    | Conduction (CO01-CB)  |
| LISN              | F.C.C.       | FCC-LISN-50-16-2 | 04083            | 150kHz ~ 100MHz | Dec. 08, 2015    | Conduction (CO01-CB)  |
| LISN              | Schwarzbeck  | NSLK 8127        | 8127647          | 9kHz ~ 30MHz    | Dec. 23, 2015    | Conduction (CO01-CB)  |
| COND Cable        | Woken        | Cable            | 01               | 150kHz ~ 30MHz  | May 24, 2016     | Conduction (CO01-CB)  |
| Software          | Audix        | E3               | 6.120210n        | -               | N.C.R.           | Conduction (CO01-CB)  |
| BILOG ANTENNA     | TESEQ        | CBL6112D         | 37880            | 20MHz ~ 2GHz    | Aug. 30, 2016    | Radiation (03CH01-CB) |
| Loop Antenna      | Teseq        | HLA 6120         | 24155            | 9kHz ~ 30 MHz   | Mar. 16, 2016*   | Radiation (03CH01-CB) |
| Horn Antenna      | SCHWARZBECK  | BBHA 9120 D      | BBHA 9120 D 1370 | 1GHz~18GHz      | Jul. 07, 2016    | Radiation (03CH01-CB) |
| Horn Antenna      | Schwarzbeck  | BBHA 9170        | BBHA9170252      | 15GHz ~ 40GHz   | Jul. 25, 2016    | Radiation (03CH01-CB) |
| Pre-Amplifier     | Agilent      | 8447D            | 2944A10991       | 0.1MHz ~ 1.3GHz | Mar. 15, 2016    | Radiation (03CH01-CB) |
| Pre-Amplifier     | Agilent      | 8449B            | 3008A02310       | 1GHz ~ 26.5GHz  | Jan. 18, 2016    | Radiation (03CH01-CB) |
| Pre-Amplifier     | WM           | TF-130N-R1       | 923365           | 26GHz ~ 40GHz   | Nov. 13, 2015    | Radiation (03CH01-CB) |
| Spectrum Analyzer | R&S          | FSP-40           | 100019           | 9kHz ~ 40GHz    | Apr. 21, 2016    | Radiation (03CH01-CB) |
| EMI Test          | R&S          | ESCS             | 100355           | 9kHz ~ 2.75GHz  | May 16, 2016     | Radiation (03CH01-CB) |
| RF Cable-low      | Woken        | Low Cable-1      | N/A              | 30 MHz ~ 1 GHz  | Nov. 02, 2015    | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-16    | N/A              | 1 GHz ~ 18 GHz  | Nov. 02, 2015    | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-17    | N/A              | 1 GHz ~ 18 GHz  | Nov. 02, 2015    | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-40G-1 | N/A              | 18GHz ~ 40 GHz  | Nov. 02, 2015    | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-40G-2 | N/A              | 18GHz ~ 40 GHz  | Nov. 02, 2015    | Radiation (03CH01-CB) |



| Instrument        | Manufacturer | Model No. | Serial No.    | Characteristics  | Calibration Date | Remark                   |
|-------------------|--------------|-----------|---------------|------------------|------------------|--------------------------|
| Test Software     | Audix        | E3        | 6.2009-I0-7   | N/A              | N/A              | Radiation<br>(03CH01-CB) |
| Spectrum analyzer | R&S          | FSV40     | 100979        | 9kHz~40GHz       | Dec. 09, 2015    | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken        | RG402     | High Cable-6  | 1 GHz – 26.5 GHz | Nov. 02, 2015    | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken        | RG402     | High Cable-7  | 1 GHz – 26.5 GHz | Nov. 02, 2015    | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken        | RG402     | High Cable-8  | 1 GHz – 26.5 GHz | Nov. 02, 2015    | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken        | RG402     | High Cable-9  | 1 GHz – 26.5 GHz | Nov. 02, 2015    | Conducted<br>(TH01-CB)   |
| RF Cable-high     | Woken        | RG402     | High Cable-10 | 1 GHz – 26.5 GHz | Nov. 02, 2015    | Conducted<br>(TH01-CB)   |
| Power Sensor      | Agilent      | U2021XA   | MY53410001    | 50MHz~18GHz      | Nov. 02, 2015    | Conducted<br>(TH01-CB)   |

Note: Calibration Interval of instruments listed above is one year.

“\*” Calibration Interval of instruments listed above is two years.

N.C.R means Non-Calibration required.



AC Power-line Conducted Emissions Result

|                    |             |             |         |
|--------------------|-------------|-------------|---------|
| Operating Mode     | 1           | Power Phase | Neutral |
| Operating Function | Normal Link |             |         |

Level (dBuV)

Date: 2016-10-18 Time: 19:41:28

|    | Freq   | Level | Over   | Limit | Read  | LISN   | Remark  | Pol/Phase |
|----|--------|-------|--------|-------|-------|--------|---------|-----------|
|    | MHz    | dBuV  | Limit  | Line  | Level | Factor |         |           |
| 1  | 0.2007 | 32.50 | -21.08 | 53.58 | 22.36 | 9.96   | Average | NEUTRAL   |
| 2  | 0.2007 | 39.21 | -24.37 | 63.58 | 29.07 | 9.96   | QP      | NEUTRAL   |
| 3  | 0.2788 | 33.66 | -17.19 | 50.85 | 23.51 | 9.96   | Average | NEUTRAL   |
| 4  | 0.2788 | 40.31 | -20.54 | 60.85 | 30.16 | 9.96   | QP      | NEUTRAL   |
| 5  | 0.6271 | 28.38 | -17.62 | 46.00 | 18.21 | 9.97   | Average | NEUTRAL   |
| 6  | 0.6271 | 35.32 | -20.68 | 56.00 | 25.15 | 9.97   | QP      | NEUTRAL   |
| 7  | 1.0211 | 25.74 | -20.26 | 46.00 | 15.58 | 9.97   | Average | NEUTRAL   |
| 8  | 1.0211 | 32.77 | -23.23 | 56.00 | 22.61 | 9.97   | QP      | NEUTRAL   |
| 9  | 1.7623 | 23.80 | -22.20 | 46.00 | 13.57 | 9.99   | Average | NEUTRAL   |
| 10 | 1.7623 | 30.50 | -25.50 | 56.00 | 20.27 | 9.99   | QP      | NEUTRAL   |
| 11 | 2.5671 | 21.56 | -24.44 | 46.00 | 11.28 | 10.00  | Average | NEUTRAL   |
| 12 | 2.5671 | 28.49 | -27.51 | 56.00 | 18.21 | 10.00  | QP      | NEUTRAL   |

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.  
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

| AC Power-line Conducted Emissions Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |       |        |       |             |        |         |           |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|--------|-------|-------------|--------|---------|-----------|--|------|-------|------|-------|------|------|--------|-----------|--|-----|------|-------|------|-------|--------|---|--------|-------|--------|-------|-------|------|---------|------|---|--------|-------|--------|-------|-------|------|----|------|---|--------|-------|--------|-------|-------|------|---------|------|---|--------|-------|--------|-------|-------|------|----|------|---|--------|-------|--------|-------|-------|-------|---------|------|---|--------|-------|--------|-------|-------|-------|----|------|---|--------|-------|--------|-------|-------|-------|---------|------|---|--------|-------|--------|-------|-------|-------|----|------|---|--------|-------|--------|-------|-------|-------|---------|------|----|--------|-------|--------|-------|-------|-------|----|------|----|--------|-------|--------|-------|-------|-------|---------|------|----|--------|-------|--------|-------|-------|-------|----|------|
| Operating Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1           |       |        |       | Power Phase |        | Line    |           |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| Operating Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Normal Link |       |        |       |             |        |         |           |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| <div><div><div>Level (dBuV)</div><div>Date: 2016-10-18 Time: 19:36:23</div></div><table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Read</th><th>LISN</th><th rowspan="2">Remark</th><th rowspan="2">Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th></tr><tr><td>1</td><td>0.2174</td><td>31.40</td><td>-21.52</td><td>52.92</td><td>21.26</td><td>9.96</td><td>Average</td><td>LINE</td></tr><tr><td>2</td><td>0.2174</td><td>38.07</td><td>-24.85</td><td>62.92</td><td>27.93</td><td>9.96</td><td>QP</td><td>LINE</td></tr><tr><td>3</td><td>0.3166</td><td>31.89</td><td>-17.91</td><td>49.80</td><td>21.71</td><td>9.99</td><td>Average</td><td>LINE</td></tr><tr><td>4</td><td>0.3166</td><td>38.76</td><td>-21.04</td><td>59.80</td><td>28.58</td><td>9.99</td><td>QP</td><td>LINE</td></tr><tr><td>5</td><td>0.6338</td><td>28.44</td><td>-17.56</td><td>46.00</td><td>18.21</td><td>10.03</td><td>Average</td><td>LINE</td></tr><tr><td>6</td><td>0.6338</td><td>35.12</td><td>-20.88</td><td>56.00</td><td>24.89</td><td>10.03</td><td>QP</td><td>LINE</td></tr><tr><td>7</td><td>0.9787</td><td>26.27</td><td>-19.73</td><td>46.00</td><td>16.03</td><td>10.05</td><td>Average</td><td>LINE</td></tr><tr><td>8</td><td>0.9787</td><td>32.97</td><td>-23.03</td><td>56.00</td><td>22.73</td><td>10.05</td><td>QP</td><td>LINE</td></tr><tr><td>9</td><td>2.1213</td><td>23.79</td><td>-22.21</td><td>46.00</td><td>13.45</td><td>10.08</td><td>Average</td><td>LINE</td></tr><tr><td>10</td><td>2.1213</td><td>30.66</td><td>-25.34</td><td>56.00</td><td>20.32</td><td>10.08</td><td>QP</td><td>LINE</td></tr><tr><td>11</td><td>2.5400</td><td>21.84</td><td>-24.16</td><td>46.00</td><td>11.47</td><td>10.09</td><td>Average</td><td>LINE</td></tr><tr><td>12</td><td>2.5400</td><td>28.58</td><td>-27.42</td><td>56.00</td><td>18.21</td><td>10.09</td><td>QP</td><td>LINE</td></tr></table></div> |             |       |        |       |             |        |         |           |  | Freq | Level | Over | Limit | Read | LISN | Remark | Pol/Phase |  | MHz | dBuV | Limit | Line | Level | Factor | 1 | 0.2174 | 31.40 | -21.52 | 52.92 | 21.26 | 9.96 | Average | LINE | 2 | 0.2174 | 38.07 | -24.85 | 62.92 | 27.93 | 9.96 | QP | LINE | 3 | 0.3166 | 31.89 | -17.91 | 49.80 | 21.71 | 9.99 | Average | LINE | 4 | 0.3166 | 38.76 | -21.04 | 59.80 | 28.58 | 9.99 | QP | LINE | 5 | 0.6338 | 28.44 | -17.56 | 46.00 | 18.21 | 10.03 | Average | LINE | 6 | 0.6338 | 35.12 | -20.88 | 56.00 | 24.89 | 10.03 | QP | LINE | 7 | 0.9787 | 26.27 | -19.73 | 46.00 | 16.03 | 10.05 | Average | LINE | 8 | 0.9787 | 32.97 | -23.03 | 56.00 | 22.73 | 10.05 | QP | LINE | 9 | 2.1213 | 23.79 | -22.21 | 46.00 | 13.45 | 10.08 | Average | LINE | 10 | 2.1213 | 30.66 | -25.34 | 56.00 | 20.32 | 10.08 | QP | LINE | 11 | 2.5400 | 21.84 | -24.16 | 46.00 | 11.47 | 10.09 | Average | LINE | 12 | 2.5400 | 28.58 | -27.42 | 56.00 | 18.21 | 10.09 | QP | LINE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Freq        | Level | Over   | Limit | Read        | LISN   | Remark  | Pol/Phase |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MHz         | dBuV  | Limit  | Line  | Level       | Factor |         |           |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.2174      | 31.40 | -21.52 | 52.92 | 21.26       | 9.96   | Average | LINE      |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.2174      | 38.07 | -24.85 | 62.92 | 27.93       | 9.96   | QP      | LINE      |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.3166      | 31.89 | -17.91 | 49.80 | 21.71       | 9.99   | Average | LINE      |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.3166      | 38.76 | -21.04 | 59.80 | 28.58       | 9.99   | QP      | LINE      |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.6338      | 28.44 | -17.56 | 46.00 | 18.21       | 10.03  | Average | LINE      |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.6338      | 35.12 | -20.88 | 56.00 | 24.89       | 10.03  | QP      | LINE      |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.9787      | 26.27 | -19.73 | 46.00 | 16.03       | 10.05  | Average | LINE      |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.9787      | 32.97 | -23.03 | 56.00 | 22.73       | 10.05  | QP      | LINE      |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.1213      | 23.79 | -22.21 | 46.00 | 13.45       | 10.08  | Average | LINE      |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.1213      | 30.66 | -25.34 | 56.00 | 20.32       | 10.08  | QP      | LINE      |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.5400      | 21.84 | -24.16 | 46.00 | 11.47       | 10.09  | Average | LINE      |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.5400      | 28.58 | -27.42 | 56.00 | 18.21       | 10.09  | QP      | LINE      |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |
| <div>Note 1: "&gt;20dB" means emission levels that exceed the level of 20 dB below the applicable limit.<br/>Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |       |        |       |             |        |         |           |  |      |       |      |       |      |      |        |           |  |     |      |       |      |       |        |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |      |         |      |   |        |       |        |       |       |      |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |   |        |       |        |       |       |       |    |      |   |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |    |        |       |        |       |       |       |         |      |    |        |       |        |       |       |       |    |      |



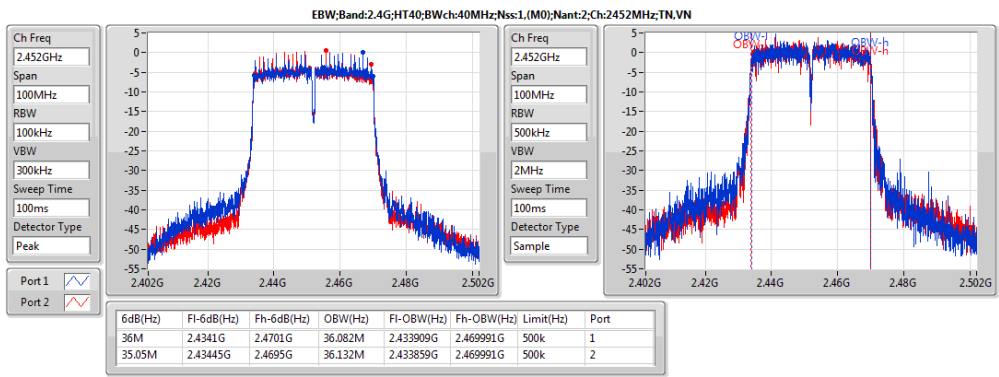
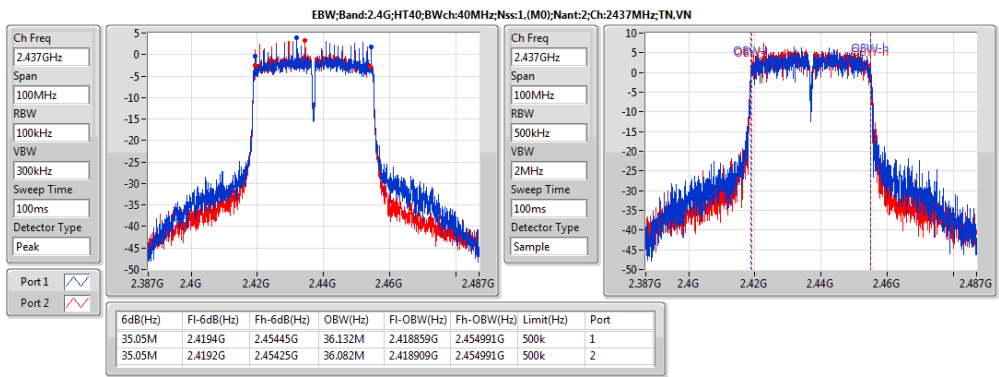
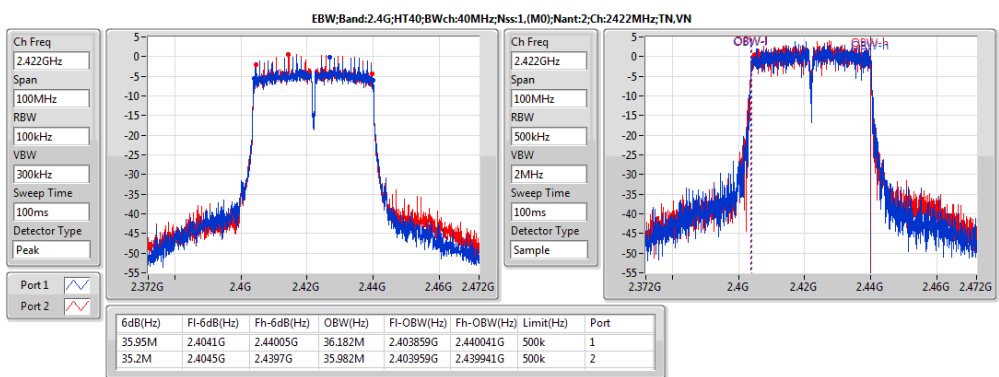
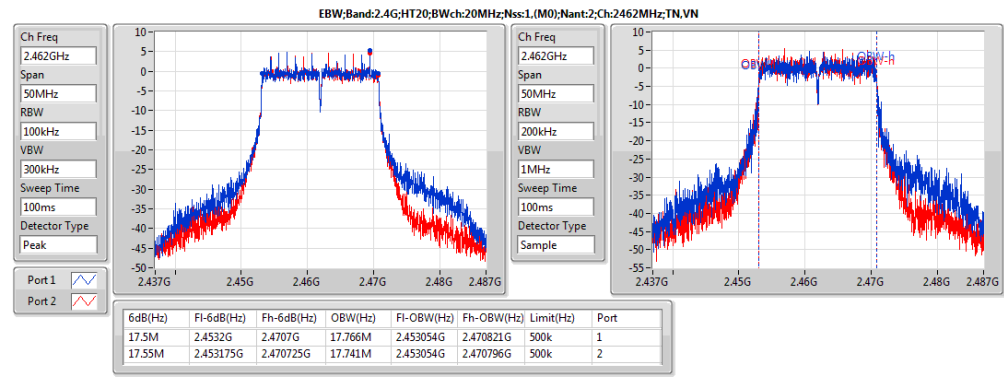
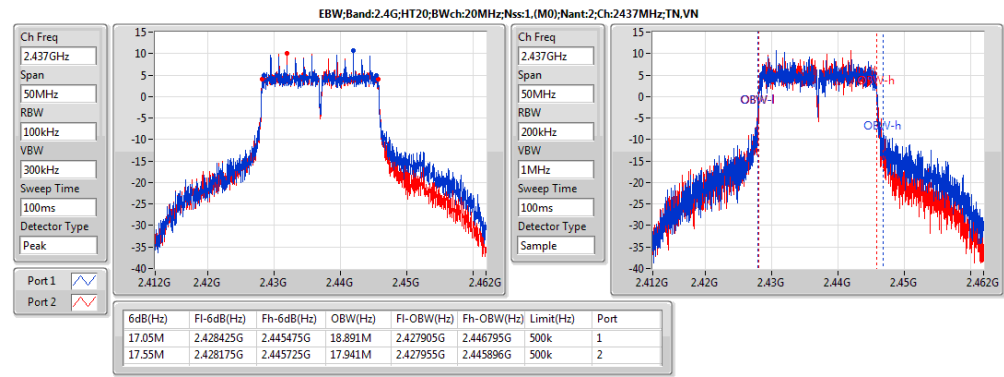
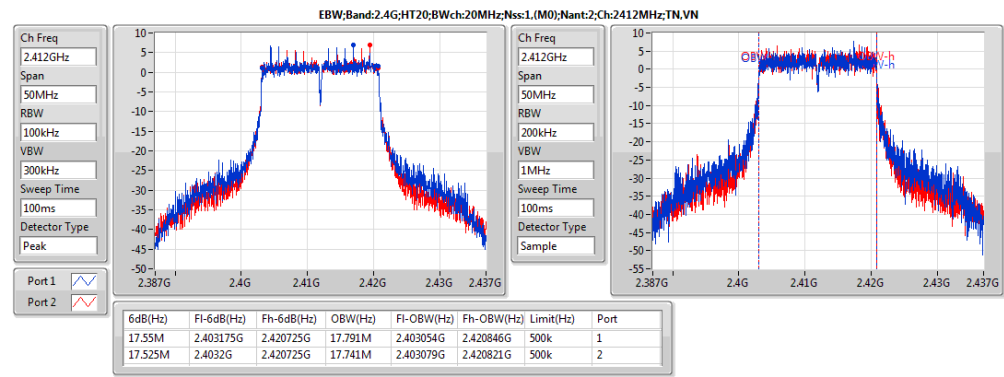
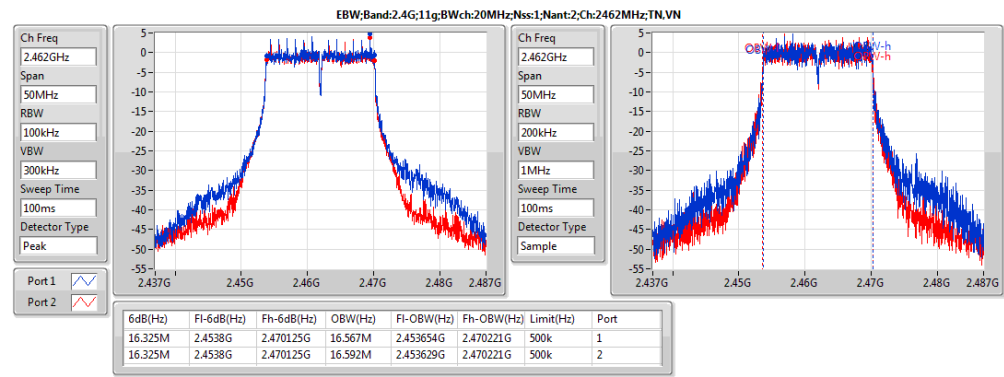
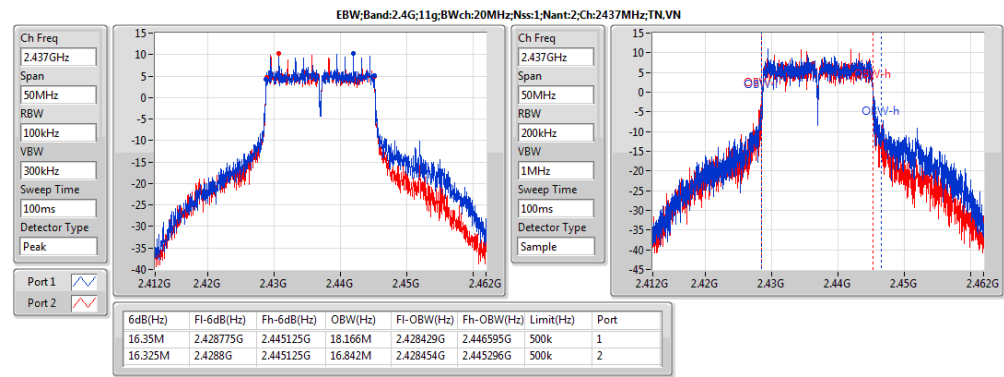
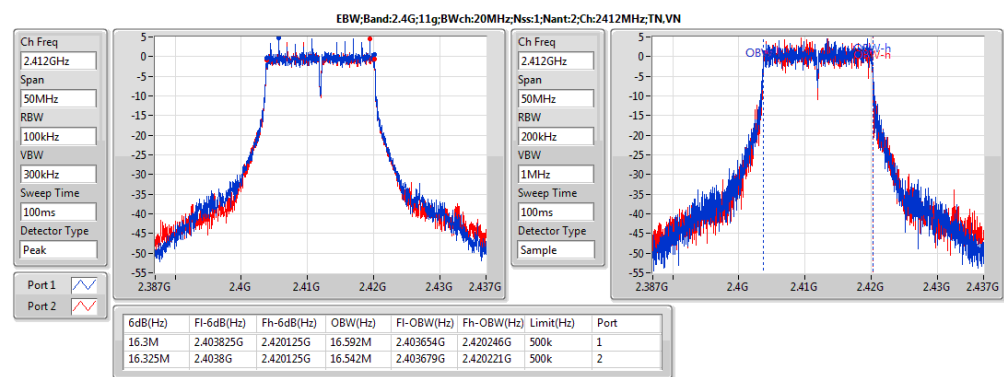
Summary

| Mode                     | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|--------------------------|------------------|-----------------|----------|------------------|-----------------|
| 2.4G;11g;Nss1;Ntx2       | 16.35M           | 18.166M         | 18M2D1D  | 16.3M            | 16.542M         |
| 2.4G;HT20;Nss1,(M0);Ntx2 | 17.55M           | 18.891M         | 18M9D1D  | 17.05M           | 17.741M         |
| 2.4G;HT40;Nss1,(M0);Ntx2 | 36M              | 36.182M         | 36M2D1D  | 35.05M           | 35.982M         |



Result

| Mode                          | Result | Limit | P1-N dB<br>(Hz) | P1-OBW<br>(Hz) | P2-N dB<br>(Hz) | P2-OBW<br>(Hz) |
|-------------------------------|--------|-------|-----------------|----------------|-----------------|----------------|
| 2.4G;11g;Nss1;Ntx2;2412       | Pass   | 500k  | 16.3M           | 16.592M        | 16.325M         | 16.542M        |
| 2.4G;11g;Nss1;Ntx2;2437       | Pass   | 500k  | 16.35M          | 18.166M        | 16.325M         | 16.842M        |
| 2.4G;11g;Nss1;Ntx2;2462       | Pass   | 500k  | 16.325M         | 16.567M        | 16.325M         | 16.592M        |
| 2.4G;HT20;Nss1,(M0);Ntx2;2412 | Pass   | 500k  | 17.55M          | 17.791M        | 17.525M         | 17.741M        |
| 2.4G;HT20;Nss1,(M0);Ntx2;2437 | Pass   | 500k  | 17.05M          | 18.891M        | 17.55M          | 17.941M        |
| 2.4G;HT20;Nss1,(M0);Ntx2;2462 | Pass   | 500k  | 17.5M           | 17.766M        | 17.55M          | 17.741M        |
| 2.4G;HT40;Nss1,(M0);Ntx2;2422 | Pass   | 500k  | 35.95M          | 36.182M        | 35.2M           | 35.982M        |
| 2.4G;HT40;Nss1,(M0);Ntx2;2437 | Pass   | 500k  | 35.05M          | 36.132M        | 35.05M          | 36.082M        |
| 2.4G;HT40;Nss1,(M0);Ntx2;2452 | Pass   | 500k  | 36M             | 36.082M        | 35.05M          | 36.132M        |







Summary

| Mode                     | Sum<br>(dBm) | Sum<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|--------------------------|--------------|------------|---------------|-------------|
| 2.4G;11g;Nss1;Ntx2       | 23.79        | 0.23933    | 28.05         | 0.63826     |
| 2.4G;HT20;Nss1,(M0);Ntx2 | 23.46        | 0.22182    | 27.72         | 0.59156     |
| 2.4G;HT40;Nss1,(M0);Ntx2 | 19.89        | 0.0975     | 24.15         | 0.26002     |



Result

| Mode                          | Result | DG<br>(dBi) | EIRP<br>(dBm) | EIRP Lim.<br>(dBm) | Sum<br>(dBm) | Sum Lim.<br>(dBm) | P1<br>(dBm) | P2<br>(dBm) |
|-------------------------------|--------|-------------|---------------|--------------------|--------------|-------------------|-------------|-------------|
| 2.4G;11g;Nss1;Ntx2;2412       | Pass   | 4.26        | 22.87         | 36.00              | 18.61        | 30.00             | 15.62       | 15.59       |
| 2.4G;11g;Nss1;Ntx2;2437       | Pass   | 4.26        | 28.05         | 36.00              | 23.79        | 30.00             | 20.81       | 20.74       |
| 2.4G;11g;Nss1;Ntx2;2462       | Pass   | 4.26        | 22.37         | 36.00              | 18.11        | 30.00             | 15.31       | 14.88       |
| 2.4G;HT20;Nss1,(M0);Ntx2;2412 | Pass   | 4.26        | 24.97         | 36.00              | 20.71        | 30.00             | 17.53       | 17.86       |
| 2.4G;HT20;Nss1,(M0);Ntx2;2437 | Pass   | 4.26        | 27.72         | 36.00              | 23.46        | 30.00             | 20.31       | 20.59       |
| 2.4G;HT20;Nss1,(M0);Ntx2;2462 | Pass   | 4.26        | 23.22         | 36.00              | 18.96        | 30.00             | 15.98       | 15.93       |
| 2.4G;HT40;Nss1,(M0);Ntx2;2422 | Pass   | 4.26        | 21.43         | 36.00              | 17.17        | 30.00             | 13.86       | 14.44       |
| 2.4G;HT40;Nss1,(M0);Ntx2;2437 | Pass   | 4.26        | 24.15         | 36.00              | 19.89        | 30.00             | 16.59       | 17.15       |
| 2.4G;HT40;Nss1,(M0);Ntx2;2452 | Pass   | 4.26        | 21.27         | 36.00              | 17.01        | 30.00             | 13.98       | 14.02       |



Summary

| Mode                     | PD<br>(dBm/RBW) | EIRP.PD<br>(dBm/RBW) |
|--------------------------|-----------------|----------------------|
| 2.4G;11g;Nss1;Ntx2       | -4.49           | 2.53                 |
| 2.4G;HT20;Nss1,(M0);Ntx2 | -3.56           | 3.46                 |
| 2.4G;HT40;Nss1,(M0);Ntx2 | -9.72           | -2.70                |



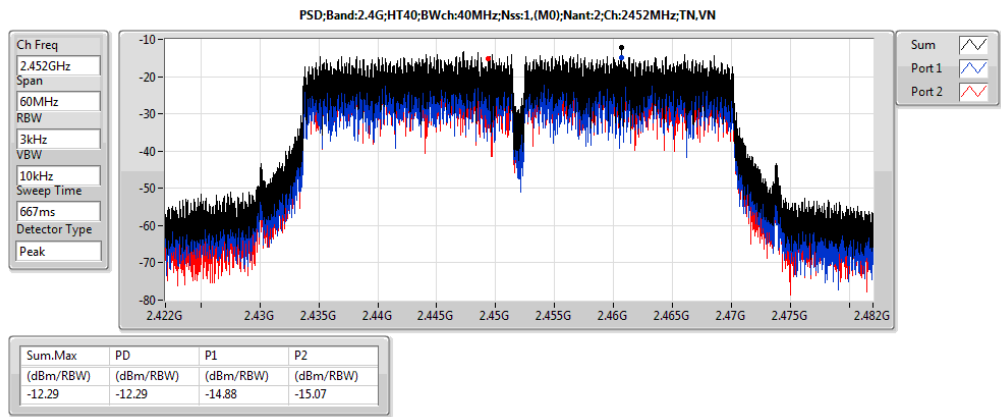
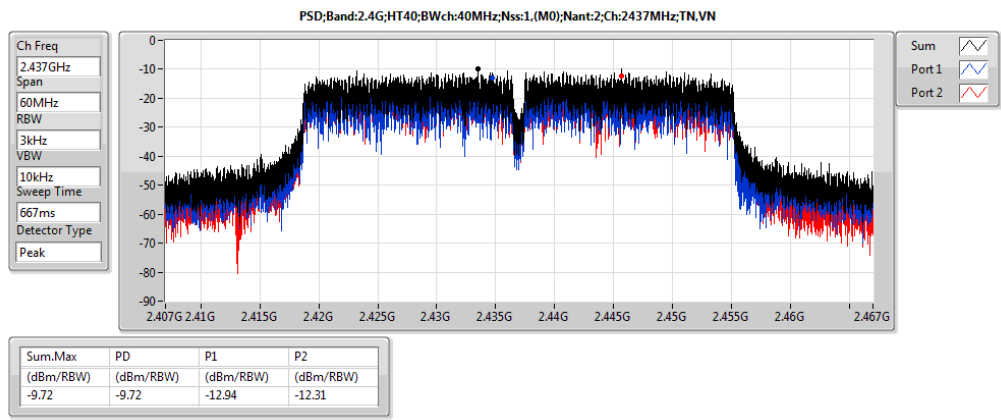
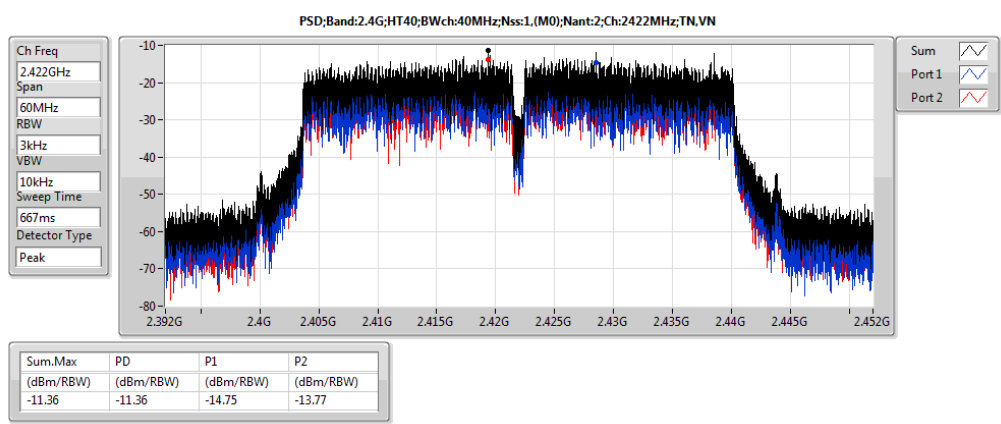
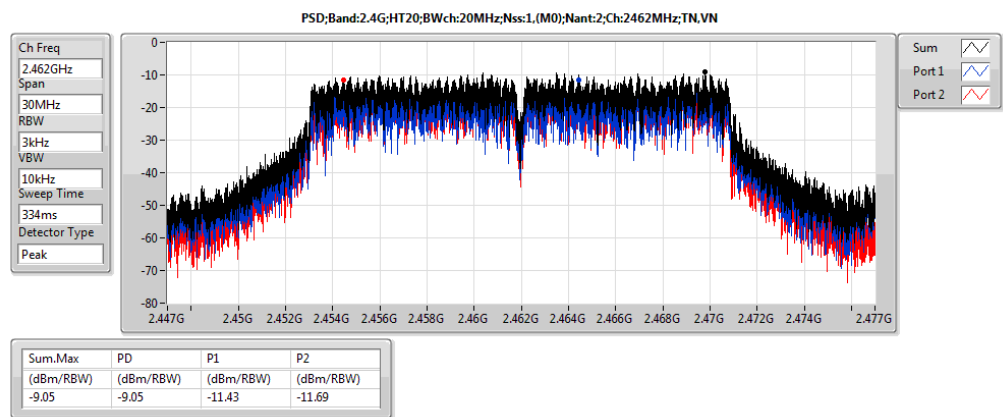
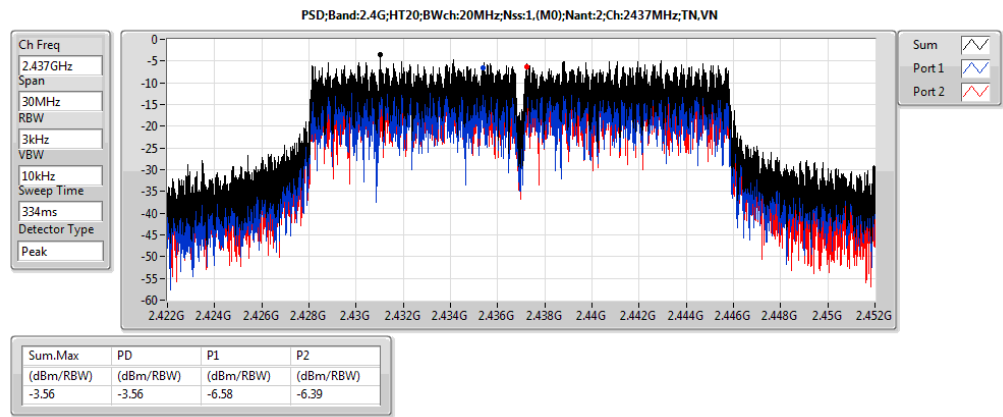
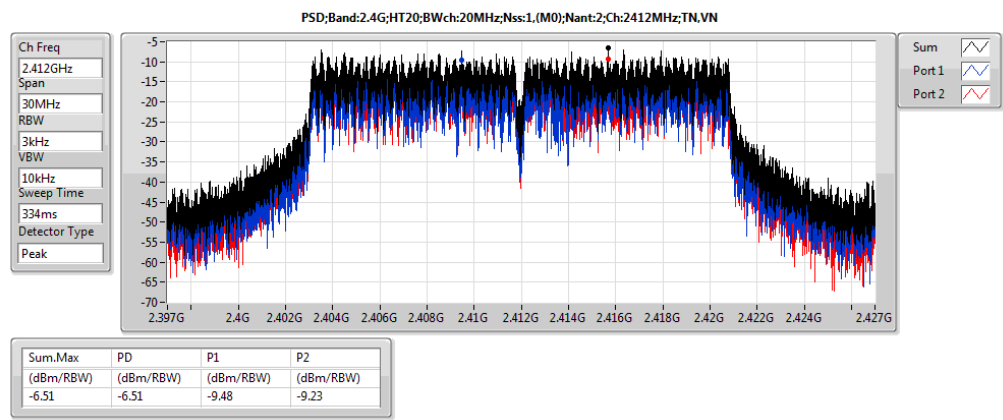
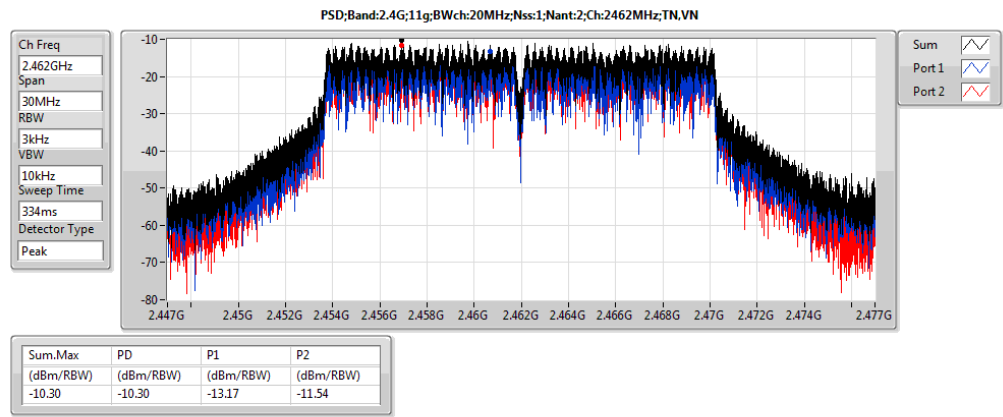
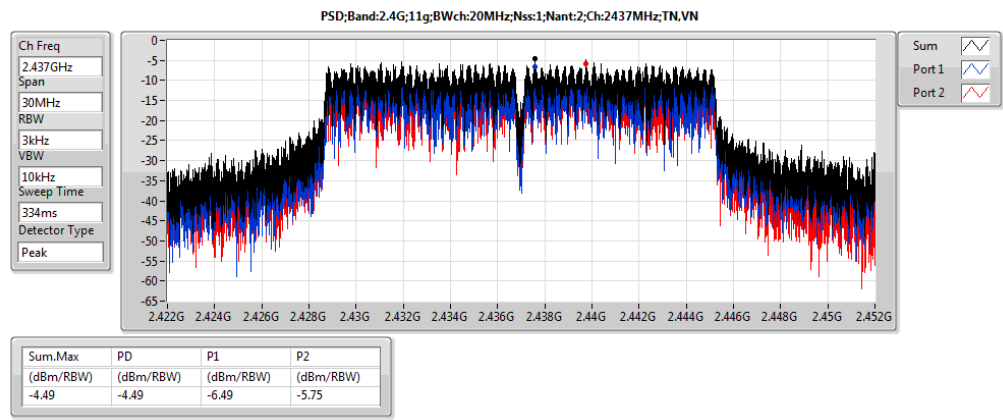
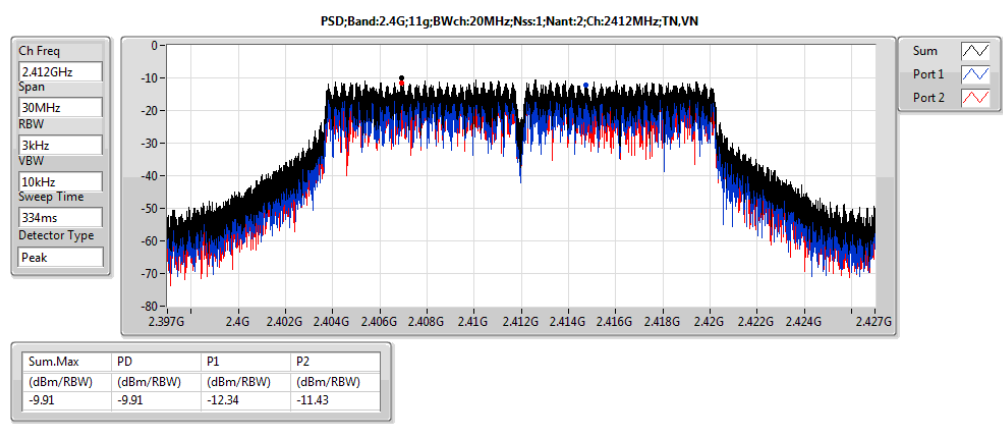
Result

| Mode                          | Result | Meas.RBW<br>(Hz) | Lim.RBW<br>(Hz) | BWCF<br>(dB) | DG<br>(dBi) | Sum.Max<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD.Limit<br>(dBm/RBW) | EIRP.PD<br>(dBm/RBW) | EIRP.PD.Li<br>m<br>(dBm/RBW) | P1<br>(dBm/RBW) | P2<br>(dBm/RBW) |
|-------------------------------|--------|------------------|-----------------|--------------|-------------|----------------------|-----------------|-----------------------|----------------------|------------------------------|-----------------|-----------------|
| 2.4G;11g;Nss1;Ntx2;2412       | Pass   | 3k               | 3k              | 0.00         | 7.02        | -9.91                | -9.91           | 6.98                  | -2.90                | Inf                          | -12.34          | -11.43          |
| 2.4G;11g;Nss1;Ntx2;2437       | Pass   | 3k               | 3k              | 0.00         | 7.02        | -4.49                | -4.49           | 6.98                  | 2.53                 | Inf                          | -6.49           | -5.75           |
| 2.4G;11g;Nss1;Ntx2;2462       | Pass   | 3k               | 3k              | 0.00         | 7.02        | -10.30               | -10.30          | 6.98                  | -3.29                | Inf                          | -13.17          | -11.54          |
| 2.4G;HT20;Nss1,(M0);Ntx2;2412 | Pass   | 3k               | 3k              | 0.00         | 7.02        | -6.51                | -6.51           | 6.98                  | 0.51                 | Inf                          | -9.48           | -9.23           |
| 2.4G;HT20;Nss1,(M0);Ntx2;2437 | Pass   | 3k               | 3k              | 0.00         | 7.02        | -3.56                | -3.56           | 6.98                  | 3.46                 | Inf                          | -6.58           | -6.39           |
| 2.4G;HT20;Nss1,(M0);Ntx2;2462 | Pass   | 3k               | 3k              | 0.00         | 7.02        | -9.05                | -9.05           | 6.98                  | -2.03                | Inf                          | -11.43          | -11.69          |
| 2.4G;HT40;Nss1,(M0);Ntx2;2422 | Pass   | 3k               | 3k              | 0.00         | 7.02        | -11.36               | -11.36          | 6.98                  | -4.34                | Inf                          | -14.75          | -13.77          |
| 2.4G;HT40;Nss1,(M0);Ntx2;2437 | Pass   | 3k               | 3k              | 0.00         | 7.02        | -9.72                | -9.72           | 6.98                  | -2.70                | Inf                          | -12.94          | -12.31          |
| 2.4G;HT40;Nss1,(M0);Ntx2;2452 | Pass   | 3k               | 3k              | 0.00         | 7.02        | -12.29               | -12.29          | 6.98                  | -5.28                | Inf                          | -14.88          | -15.07          |



PSD Result

Appendix D





Summary

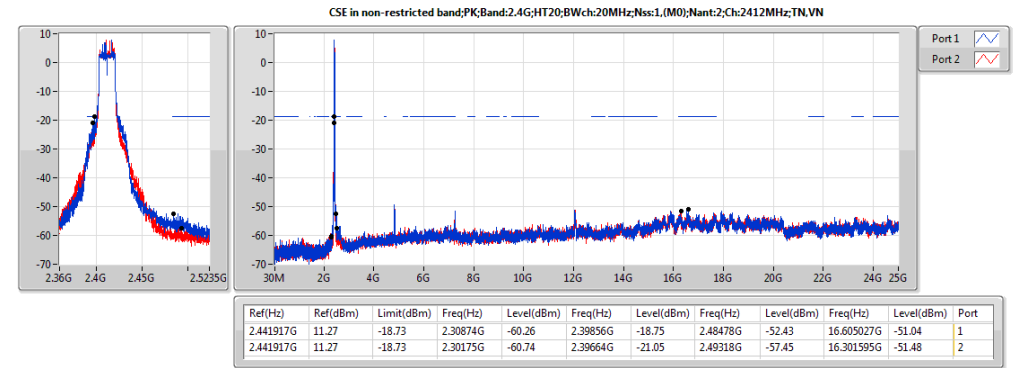
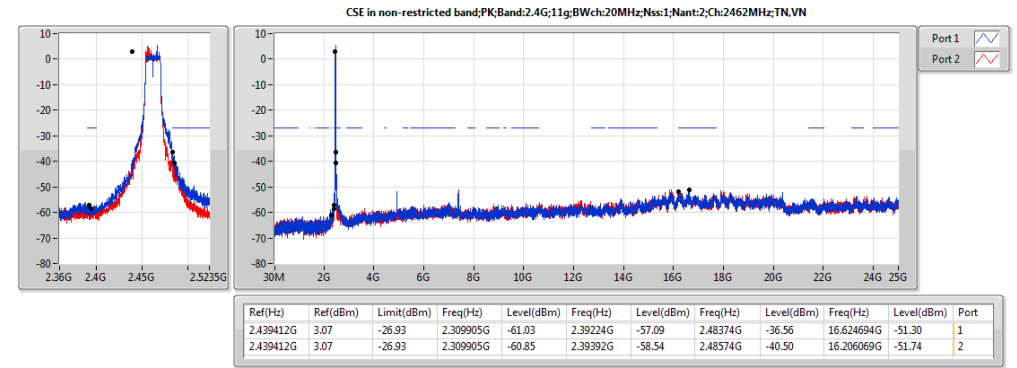
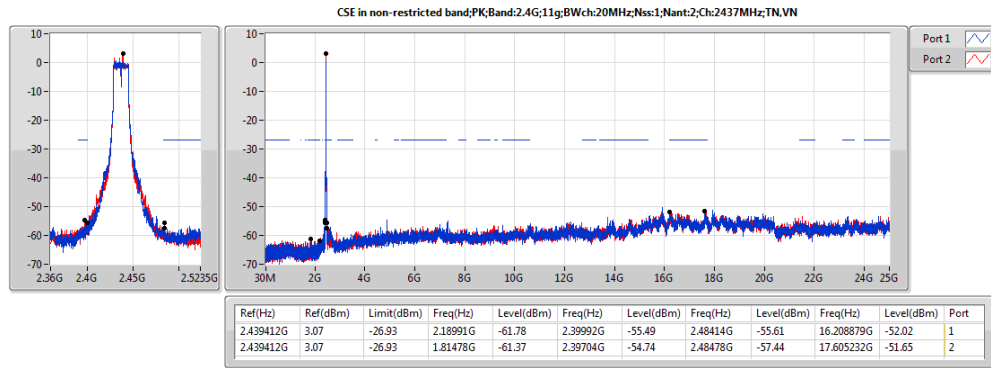
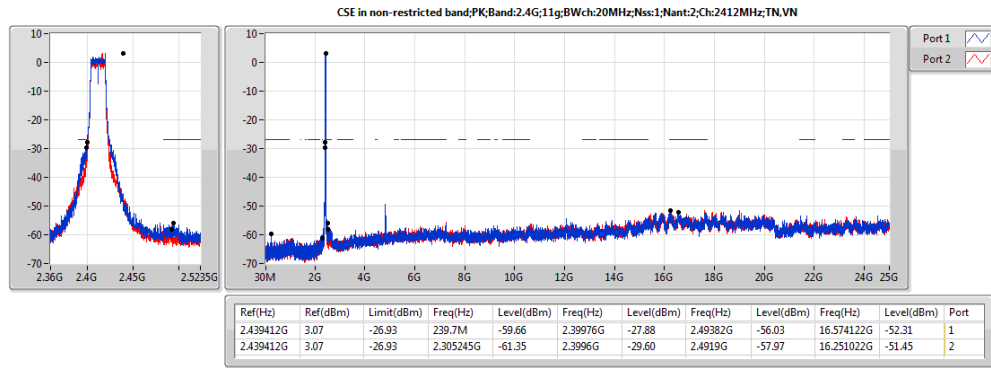
| Mode                          | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|-------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2.4G;HT20;Nss1,(M0);Ntx2;2412 | Pass   | 2.441917G   | 11.27        | -18.73         | 2.30874G     | -60.26         | 2.39856G     | -18.75         | 2.48478G     | -52.43         | 16.605027G   | -51.04         | 1    |



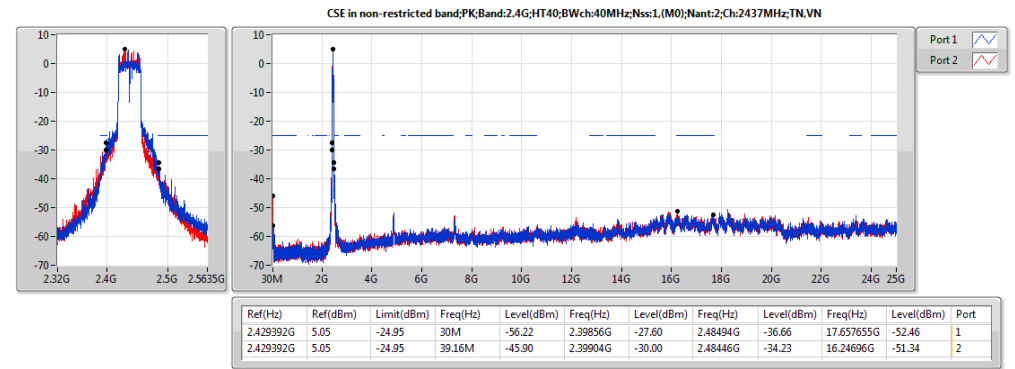
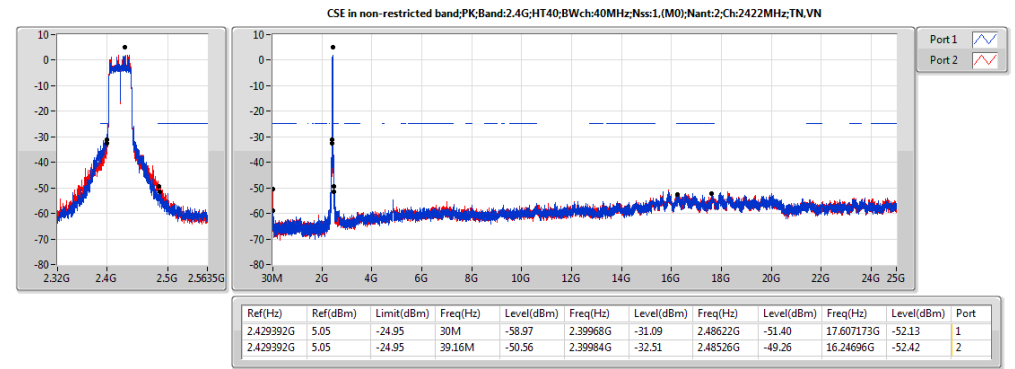
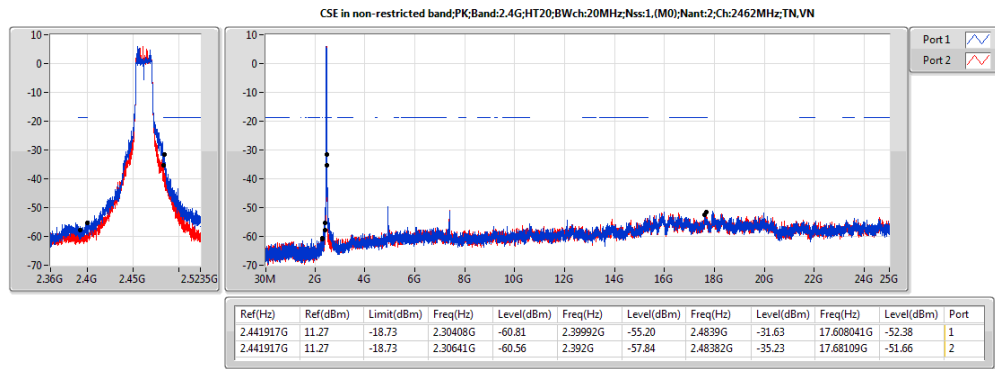
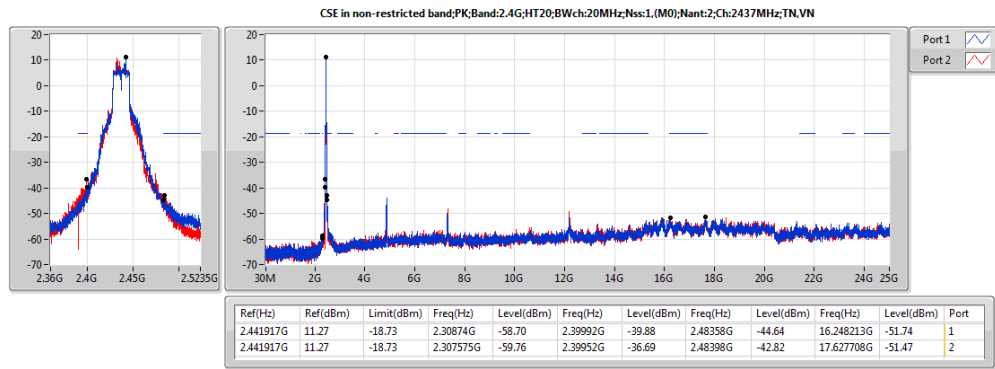


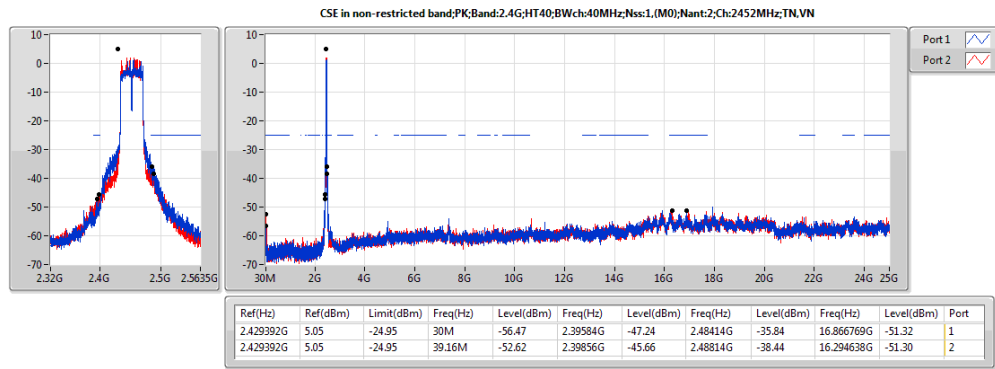
Result

| Mode                          | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|-------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2.4G;11g;Nss1;Ntx2;2412       | Pass   | 2.439412G   | 3.07         | -26.93         | 239.7M       | -59.66         | 2.39976G     | -27.88         | 2.49382G     | -56.03         | 16.574122G   | -52.31         | 1    |
| 2.4G;11g;Nss1;Ntx2;2412       | Pass   | 2.439412G   | 3.07         | -26.93         | 2.305245G    | -61.35         | 2.3996G      | -29.60         | 2.4919G      | -57.97         | 16.251022G   | -51.45         | 2    |
| 2.4G;11g;Nss1;Ntx2;2437       | Pass   | 2.439412G   | 3.07         | -26.93         | 2.18991G     | -61.78         | 2.39992G     | -55.49         | 2.48414G     | -55.61         | 16.208879G   | -52.02         | 1    |
| 2.4G;11g;Nss1;Ntx2;2437       | Pass   | 2.439412G   | 3.07         | -26.93         | 1.81478G     | -61.37         | 2.39704G     | -54.74         | 2.48478G     | -57.44         | 17.605232G   | -51.65         | 2    |
| 2.4G;11g;Nss1;Ntx2;2462       | Pass   | 2.439412G   | 3.07         | -26.93         | 2.309905G    | -61.03         | 2.39224G     | -57.09         | 2.48374G     | -36.56         | 16.624694G   | -51.30         | 1    |
| 2.4G;11g;Nss1;Ntx2;2462       | Pass   | 2.439412G   | 3.07         | -26.93         | 2.309905G    | -60.85         | 2.39392G     | -58.54         | 2.48574G     | -40.50         | 16.206069G   | -51.74         | 2    |
| 2.4G;HT20;Nss1,(M0);Ntx2;2412 | Pass   | 2.441917G   | 11.27        | -18.73         | 2.30874G     | -60.26         | 2.39856G     | -18.75         | 2.48478G     | -52.43         | 16.605027G   | -51.04         | 1    |
| 2.4G;HT20;Nss1,(M0);Ntx2;2412 | Pass   | 2.441917G   | 11.27        | -18.73         | 2.30175G     | -60.74         | 2.39664G     | -21.05         | 2.49318G     | -57.45         | 16.301595G   | -51.48         | 2    |
| 2.4G;HT20;Nss1,(M0);Ntx2;2437 | Pass   | 2.441917G   | 11.27        | -18.73         | 2.30874G     | -58.70         | 2.39992G     | -39.88         | 2.48358G     | -44.64         | 16.248213G   | -51.74         | 1    |
| 2.4G;HT20;Nss1,(M0);Ntx2;2437 | Pass   | 2.441917G   | 11.27        | -18.73         | 2.307575G    | -59.76         | 2.39952G     | -36.69         | 2.48398G     | -42.82         | 17.627708G   | -51.47         | 2    |
| 2.4G;HT20;Nss1,(M0);Ntx2;2462 | Pass   | 2.441917G   | 11.27        | -18.73         | 2.30408G     | -60.81         | 2.39992G     | -55.20         | 2.4839G      | -31.63         | 17.608041G   | -52.38         | 1    |
| 2.4G;HT20;Nss1,(M0);Ntx2;2462 | Pass   | 2.441917G   | 11.27        | -18.73         | 2.30641G     | -60.56         | 2.392G       | -57.84         | 2.48382G     | -35.23         | 17.68109G    | -51.66         | 2    |
| 2.4G;HT40;Nss1,(M0);Ntx2;2422 | Pass   | 2.429392G   | 5.05         | -24.95         | 30M          | -58.97         | 2.39968G     | -31.09         | 2.48622G     | -51.40         | 17.607173G   | -52.13         | 1    |
| 2.4G;HT40;Nss1,(M0);Ntx2;2422 | Pass   | 2.429392G   | 5.05         | -24.95         | 39.16M       | -50.56         | 2.39984G     | -32.51         | 2.48526G     | -49.26         | 16.24696G    | -52.42         | 2    |
| 2.4G;HT40;Nss1,(M0);Ntx2;2437 | Pass   | 2.429392G   | 5.05         | -24.95         | 30M          | -56.22         | 2.39856G     | -27.60         | 2.48494G     | -36.66         | 17.657655G   | -52.46         | 1    |
| 2.4G;HT40;Nss1,(M0);Ntx2;2437 | Pass   | 2.429392G   | 5.05         | -24.95         | 39.16M       | -45.90         | 2.39904G     | -30.00         | 2.48446G     | -34.23         | 16.24696G    | -51.34         | 2    |
| 2.4G;HT40;Nss1,(M0);Ntx2;2452 | Pass   | 2.429392G   | 5.05         | -24.95         | 30M          | -56.47         | 2.39584G     | -47.24         | 2.48414G     | -35.84         | 16.866769G   | -51.32         | 1    |
| 2.4G;HT40;Nss1,(M0);Ntx2;2452 | Pass   | 2.429392G   | 5.05         | -24.95         | 39.16M       | -52.62         | 2.39856G     | -45.66         | 2.48814G     | -38.44         | 16.294638G   | -51.30         | 2    |











| RSE below 1GHz Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |        |        |        |              |              |        |       |            |        |           |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|--------|--------|--------------|--------------|--------|-------|------------|--------|-----------|--|--|------|-------|-------|------|------|--------------|--------|-------|-------|--------|-----------|--|-----|--------|--------|----|------|----|------|----|----|-----|--|---|-------|-------|-------|--------|-------|------|-------|-------|-----|-----|------|---|--------|-------|-------|--------|-------|------|-------|-------|-----|-----|------|---|--------|-------|-------|--------|-------|------|-------|-------|-----|-----|------|---|--------|-------|-------|-------|-------|------|-------|-------|-----|-----|------|---|--------|-------|-------|-------|-------|------|-------|-------|-----|-----|------|---|--------|-------|-------|-------|-------|------|-------|-------|-----|-----|------|
| Operating Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2           |        |        |        | Polarization |              |        |       | Horizontal |        |           |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |
| Operating Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Normal Link |        |        |        |              |              |        |       |            |        |           |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |
| <div><div><div>Level (dBuV/m)</div><div>Date: 2016-10-22 Time: 18:33:42</div><div></div></div><div><div>C</div><div>E</div><div>M</div><div>P</div><div>H</div></div><table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>33.88</td><td>29.45</td><td>40.00</td><td>-10.55</td><td>33.42</td><td>1.24</td><td>23.27</td><td>28.48</td><td>100</td><td>170</td><td>Peak</td></tr><tr><td>2</td><td>250.19</td><td>31.11</td><td>46.00</td><td>-14.89</td><td>37.88</td><td>1.97</td><td>18.90</td><td>27.64</td><td>150</td><td>199</td><td>Peak</td></tr><tr><td>3</td><td>375.32</td><td>32.26</td><td>46.00</td><td>-13.74</td><td>36.40</td><td>2.31</td><td>21.68</td><td>28.13</td><td>100</td><td>213</td><td>Peak</td></tr><tr><td>4</td><td>500.45</td><td>38.47</td><td>46.00</td><td>-7.53</td><td>41.01</td><td>2.58</td><td>23.64</td><td>28.76</td><td>125</td><td>211</td><td>Peak</td></tr><tr><td>5</td><td>625.58</td><td>38.33</td><td>46.00</td><td>-7.67</td><td>38.92</td><td>2.91</td><td>25.26</td><td>28.76</td><td>100</td><td>138</td><td>Peak</td></tr><tr><td>6</td><td>875.84</td><td>38.99</td><td>46.00</td><td>-7.01</td><td>36.29</td><td>3.41</td><td>27.40</td><td>28.11</td><td>125</td><td>329</td><td>Peak</td></tr></table></div> |             |        |        |        |              |              |        |       |            |        |           |  |  | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg |  | 1 | 33.88 | 29.45 | 40.00 | -10.55 | 33.42 | 1.24 | 23.27 | 28.48 | 100 | 170 | Peak | 2 | 250.19 | 31.11 | 46.00 | -14.89 | 37.88 | 1.97 | 18.90 | 27.64 | 150 | 199 | Peak | 3 | 375.32 | 32.26 | 46.00 | -13.74 | 36.40 | 2.31 | 21.68 | 28.13 | 100 | 213 | Peak | 4 | 500.45 | 38.47 | 46.00 | -7.53 | 41.01 | 2.58 | 23.64 | 28.76 | 125 | 211 | Peak | 5 | 625.58 | 38.33 | 46.00 | -7.67 | 38.92 | 2.91 | 25.26 | 28.76 | 100 | 138 | Peak | 6 | 875.84 | 38.99 | 46.00 | -7.01 | 36.29 | 3.41 | 27.40 | 28.11 | 125 | 329 | Peak |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Freq        | Level  | Limit  | Over   | Read         | CableAntenna | Preamp | A/Pos | T/Pos      | Remark | Pol/Phase |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MHz         | dBuV/m | dBuV/m | dB     | dBuV         | dB           | dB/m   | dB    | cm         | deg    |           |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 33.88       | 29.45  | 40.00  | -10.55 | 33.42        | 1.24         | 23.27  | 28.48 | 100        | 170    | Peak      |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 250.19      | 31.11  | 46.00  | -14.89 | 37.88        | 1.97         | 18.90  | 27.64 | 150        | 199    | Peak      |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 375.32      | 32.26  | 46.00  | -13.74 | 36.40        | 2.31         | 21.68  | 28.13 | 100        | 213    | Peak      |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 500.45      | 38.47  | 46.00  | -7.53  | 41.01        | 2.58         | 23.64  | 28.76 | 125        | 211    | Peak      |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 625.58      | 38.33  | 46.00  | -7.67  | 38.92        | 2.91         | 25.26  | 28.76 | 100        | 138    | Peak      |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 875.84      | 38.99  | 46.00  | -7.01  | 36.29        | 3.41         | 27.40  | 28.11 | 125        | 329    | Peak      |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |
| Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.<br>Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |        |        |        |              |              |        |       |            |        |           |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |        |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |   |        |       |       |       |       |      |       |       |     |     |      |

| RSE below 1GHz Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |        |        |        |             |              |        |       |          |          |           |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |       |       |      |       |       |     |          |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |         |          |   |        |       |       |       |       |      |       |       |     |        |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |          |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|--------|--------|-------------|--------------|--------|-------|----------|----------|-----------|--|--|------|-------|-------|------|------|--------------|--------|-------|-------|--------|-----------|--|-----|--------|--------|----|------|----|------|----|----|-----|--|---|-------|-------|-------|-------|-------|------|-------|-------|-----|----------|----------|---|--------|-------|-------|--------|-------|------|-------|-------|-----|----------|----------|---|--------|-------|-------|-------|-------|------|-------|-------|-----|---------|----------|---|--------|-------|-------|-------|-------|------|-------|-------|-----|--------|----------|---|--------|-------|-------|--------|-------|------|-------|-------|-----|----------|----------|---|--------|-------|-------|-------|-------|------|-------|-------|-----|----------|----------|
| Operating Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2           |        |        |        | Power Phase |              |        |       | Vertical |          |           |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |       |       |      |       |       |     |          |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |         |          |   |        |       |       |       |       |      |       |       |     |        |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |          |          |
| Operating Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Normal Link |        |        |        |             |              |        |       |          |          |           |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |       |       |      |       |       |     |          |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |         |          |   |        |       |       |       |       |      |       |       |     |        |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |          |          |
| <div><div><div>Level (dBuV/m)</div><div>Date: 2016-10-22 Time: 18:29:57</div><div></div></div><div><div>C</div><div>E</div><div>M</div><div>P</div><div>H</div></div><table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>53.28</td><td>31.70</td><td>40.00</td><td>-8.30</td><td>44.62</td><td>1.35</td><td>14.17</td><td>28.44</td><td>100</td><td>136 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>375.32</td><td>31.29</td><td>46.00</td><td>-14.71</td><td>35.43</td><td>2.31</td><td>21.68</td><td>28.13</td><td>100</td><td>239 Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>500.45</td><td>37.76</td><td>46.00</td><td>-8.24</td><td>40.30</td><td>2.58</td><td>23.64</td><td>28.76</td><td>125</td><td>94 Peak</td><td>VERTICAL</td></tr><tr><td>4</td><td>625.58</td><td>42.35</td><td>46.00</td><td>-3.65</td><td>42.94</td><td>2.91</td><td>25.26</td><td>28.76</td><td>150</td><td>264 QP</td><td>VERTICAL</td></tr><tr><td>5</td><td>750.71</td><td>35.26</td><td>46.00</td><td>-10.74</td><td>34.55</td><td>3.22</td><td>26.00</td><td>28.51</td><td>100</td><td>182 Peak</td><td>VERTICAL</td></tr><tr><td>6</td><td>875.84</td><td>40.33</td><td>46.00</td><td>-5.67</td><td>37.63</td><td>3.41</td><td>27.40</td><td>28.11</td><td>125</td><td>109 Peak</td><td>VERTICAL</td></tr></table></div> |             |        |        |        |             |              |        |       |          |          |           |  |  | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg |  | 1 | 53.28 | 31.70 | 40.00 | -8.30 | 44.62 | 1.35 | 14.17 | 28.44 | 100 | 136 Peak | VERTICAL | 2 | 375.32 | 31.29 | 46.00 | -14.71 | 35.43 | 2.31 | 21.68 | 28.13 | 100 | 239 Peak | VERTICAL | 3 | 500.45 | 37.76 | 46.00 | -8.24 | 40.30 | 2.58 | 23.64 | 28.76 | 125 | 94 Peak | VERTICAL | 4 | 625.58 | 42.35 | 46.00 | -3.65 | 42.94 | 2.91 | 25.26 | 28.76 | 150 | 264 QP | VERTICAL | 5 | 750.71 | 35.26 | 46.00 | -10.74 | 34.55 | 3.22 | 26.00 | 28.51 | 100 | 182 Peak | VERTICAL | 6 | 875.84 | 40.33 | 46.00 | -5.67 | 37.63 | 3.41 | 27.40 | 28.11 | 125 | 109 Peak | VERTICAL |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Freq        | Level  | Limit  | Over   | Read        | CableAntenna | Preamp | A/Pos | T/Pos    | Remark   | Pol/Phase |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |       |       |      |       |       |     |          |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |         |          |   |        |       |       |       |       |      |       |       |     |        |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MHz         | dBuV/m | dBuV/m | dB     | dBuV        | dB           | dB/m   | dB    | cm       | deg      |           |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |       |       |      |       |       |     |          |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |         |          |   |        |       |       |       |       |      |       |       |     |        |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |          |          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 53.28       | 31.70  | 40.00  | -8.30  | 44.62       | 1.35         | 14.17  | 28.44 | 100      | 136 Peak | VERTICAL  |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |       |       |      |       |       |     |          |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |         |          |   |        |       |       |       |       |      |       |       |     |        |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |          |          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 375.32      | 31.29  | 46.00  | -14.71 | 35.43       | 2.31         | 21.68  | 28.13 | 100      | 239 Peak | VERTICAL  |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |       |       |      |       |       |     |          |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |         |          |   |        |       |       |       |       |      |       |       |     |        |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |          |          |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 500.45      | 37.76  | 46.00  | -8.24  | 40.30       | 2.58         | 23.64  | 28.76 | 125      | 94 Peak  | VERTICAL  |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |       |       |      |       |       |     |          |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |         |          |   |        |       |       |       |       |      |       |       |     |        |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |          |          |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 625.58      | 42.35  | 46.00  | -3.65  | 42.94       | 2.91         | 25.26  | 28.76 | 150      | 264 QP   | VERTICAL  |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |       |       |      |       |       |     |          |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |         |          |   |        |       |       |       |       |      |       |       |     |        |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |          |          |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 750.71      | 35.26  | 46.00  | -10.74 | 34.55       | 3.22         | 26.00  | 28.51 | 100      | 182 Peak | VERTICAL  |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |       |       |      |       |       |     |          |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |         |          |   |        |       |       |       |       |      |       |       |     |        |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |          |          |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 875.84      | 40.33  | 46.00  | -5.67  | 37.63       | 3.41         | 27.40  | 28.11 | 125      | 109 Peak | VERTICAL  |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |       |       |      |       |       |     |          |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |         |          |   |        |       |       |       |       |      |       |       |     |        |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |          |          |
| Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.<br>Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |        |        |        |             |              |        |       |          |          |           |  |  |      |       |       |      |      |              |        |       |       |        |           |  |     |        |        |    |      |    |      |    |    |     |  |   |       |       |       |       |       |      |       |       |     |          |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |         |          |   |        |       |       |       |       |      |       |       |     |        |          |   |        |       |       |        |       |      |       |       |     |          |          |   |        |       |       |       |       |      |       |       |     |          |          |



Summary

| Mode                             | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Pol.<br>(H/V) | Azimuth<br>(°) | Height<br>(m) | Comments |
|----------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|---------------|----------------|---------------|----------|
| 2.4G;HT20;Nss1,(M0);Ntx2;2412;TX | Pass   | AV   | 2.3898G      | 53.99             | 54.00             | -0.01          | 33.28          | 3           | V             | 261            | 1.88          | -        |

