# FCC REPORT
## (WIFI)

| | |
|---|---|
| **Applicant:** | PCD, LLC |
| **Address of Applicant:** | 1500 Tradeport Drive, ORLANDO, Florida, 32824. United States |

**Equipment Under Test (EUT)**

| | |
|---|---|
| Product Name: | Jaguar PRO LTE |
| Model No.: | PL570 |
| Trade mark: | PCD |
| **FCC ID:** | 2ALJJPL570 |
| **Applicable standards:** | FCC CFR Title 47 Part 15 Subpart C Section 15.247 |
| **Date of sample receipt:** | 27 Jul., 2018 |
| **Date of Test:** | 27 Jul., to 27 Aug., 2018 |
| **Date of report issued:** | 28 Aug., 2018 |
| **Test Result:** | PASS* |

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Bruce Zhang
Laboratory Manager

## 2 Version

| Version No. | Date | Description |
|---|---|---|
| *00* | *28 Aug., 2018* | *Original* |
| | | |
| | | |
| | | |
| | | |

***Tested by:*** YT Yang ***Date:*** *28 Aug., 2018*

***Test Engineer***

***Reviewed by:*** Winner Zhang ***Date:*** *28 Aug., 2018*

***Project Engineer***

# 3 Contents

# 4 Test Summary

| Test Items | Section in CFR 47 | Result |
|---|---|---|
| Antenna requirement | 15.203 & 15.247 (c) | Pass |
| AC Power Line Conducted Emission | 15.207 | Pass |
| Conducted Peak Output Power | 15.247 (b)(3) | Pass |
| 6dB Emission Bandwidth<br>99% Occupied Bandwidth | 15.247 (a)(2) | Pass |
| Power Spectral Density | 15.247 (e) | Pass |
| Band Edge | 15.247 (d) | Pass |
| Spurious Emission | 15.205 & 15.209 | Pass |
| *Pass: The EUT complies with the essential requirements in the standard.*<br>*N/A: Not Applicable.* | | |

# 5 General Information

## 5.1 Client Information

| | |
|---|---|
| Applicant: | PCD, LLC |
| Address: | 1500 Tradeport Drive, ORLANDO, Florida, 32824. United States |
| Manufacturer: | PCD, LLC |
| Address: | 1500 Tradeport Drive, ORLANDO, Florida, 32824. United States |

## 5.2 General Description of E.U.T.

| | |
|---|---|
| Product Name: | Jaguar PRO LTE |
| Model No.: | PL570 |
| Operation Frequency: | 2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) |
| Channel numbers: | 11 for 802.11b/802.11g/802.11(H20) |
| Channel separation: | 5MHz |
| Modulation technology: (IEEE 802.11b) | Direct Sequence Spread Spectrum (DSSS) |
| Modulation technology: (IEEE 802.11g/802.11n) | Orthogonal Frequency Division Multiplexing(OFDM) |
| Data speed (IEEE 802.11b): | 1Mbps, 2Mbps, 5.5Mbps, 11Mbps |
| Data speed (IEEE 802.11g): | 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps |
| Data speed (IEEE 802.11n): | Up to 72.2Mbps |
| Antenna Type: | External Antenna |
| Antenna gain: | -1 dBi |
| Power supply: | Rechargeable Li-ion Battery DC3.8V2800mAh |
| AC adapter: | Model: PL570<br>Input: AC100-240V, 50/60Hz, 0.2A<br>Output: DC 5.0V, 1.0A |

| **Operation Frequency each of channel for 802.11b/g/n(H20)** | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2412MHz | 4 | 2427MHz | 7 | 2442MHz | 10 | 2457MHz |
| 2 | 2417MHz | 5 | 2432MHz | 8 | 2447MHz | 11 | 2462MHz |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | | |
| Note:<br>1. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel. | | | | | | | |

## 5.3 Test environment and test mode

| Operating Environment: | |
|---|---|
| Temperature: | 24.0 °C |
| Humidity: | 54 % RH |
| Atmospheric Pressure: | 1010 mbar |
| **Test mode:** | |
| Transmitting mode | Keep the EUT in continuous transmitting with modulation |

The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

| **Per-scan all kind of data rate, the follow list were the worst case.** | |
|---|---|
| Mode | Data rate |
| 802.11b | 1Mbps |
| 802.11g | 6Mbps |
| 802.11n(H20) | 6.5Mbps |

## 5.4 Description of Support Units

The EUT has been tested as an independent unit.

## 5.5 Measurement Uncertainty

| Parameters | Expanded Uncertainty |
|---|---|
| Conducted Emission (9kHz ~ 30MHz) | ±2.22 dB (k=2) |
| Radiated Emission (9kHz ~ 30MHz) | ±2.76 dB (k=2) |
| Radiated Emission (30MHz ~ 1000MHz) | ±4.28 dB (k=2) |
| Radiated Emission (1GHz ~ 18GHz) | ±5.72 dB (k=2) |
| Radiated Emission (18GHz ~ 40GHz) | ±2.88 dB (k=2) |

## 5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Registration No.: 727551**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

- **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

## 5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

## 5.8 Test Instruments list

| Radiated Emission: | | | | | |
|---|---|---|---|---|---|
| **Test Equipment** | **Manufacturer** | **Model No.** | **Serial No.** | **Cal. Date (mm-dd-yy)** | **Cal. Due date (mm-dd-yy)** |
| 3m SAC | SAEMC | 9m*6m*6m | 966 | 07-22-2017 | 07-21-2020 |
| Loop Antenna | SCHWARZBECK | FMZB1519B | 00044 | 03-16-2018 | 03-15-2019 |
| BiConiLog Antenna | SCHWARZBECK | VULB9163 | 497 | 03-16-2018 | 03-15-2019 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 916 | 03-16-2018 | 03-15-2019 |
| EMI Test Software | AUDIX | E3 | Version: 6.110919b | | |
| Pre-amplifier | HP | 8447D | 2944A09358 | 03-07-2018 | 03-06-2019 |
| Pre-amplifier | CD | PAP-1G18 | 11804 | 03-07-2018 | 03-06-2019 |
| Spectrum analyzer | Rohde & Schwarz | FSP30 | 101454 | 03-07-2018 | 03-06-2019 |
| EMI Test Receiver | Rohde & Schwarz | ESRP7 | 101070 | 03-07-2018 | 03-06-2019 |
| Cable | ZDECL | Z108-NJ-NJ-81 | 1608458 | 03-07-2018 | 03-06-2019 |
| Cable | MICRO-COAX | MFR64639 | K10742-5 | 03-07-2018 | 03-06-2019 |
| Cable | SUHNER | SUCOFLEX100 | 58193/4PE | 03-07-2018 | 03-06-2019 |
| RF Switch Unit | MWRFTEST | MW200 | N/A | N/A | N/A |
| Test Software | MWRFTEST | MTS8200 | Version: 2.0.0.0 | | |

| Conducted Emission: | | | | | |
|---|---|---|---|---|---|
| **Test Equipment** | **Manufacturer** | **Model No.** | **Serial No.** | **Cal. Date (mm-dd-yy)** | **Cal. Due date (mm-dd-yy)** |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 101189 | 03-07-2018 | 03-06-2019 |
| Pulse Limiter | SCHWARZBECK | OSRAM 2306 | 9731 | 03-07-2018 | 03-06-2019 |
| LISN | CHASE | MN2050D | 1447 | 03-19-2018 | 03-18-2019 |
| LISN | Rohde & Schwarz | ESH3-Z5 | 8438621/010 | 07-21-2018 | 07-20-2019 |
| Cable | HP | 10503A | N/A | 03-07-2018 | 03-06-2019 |
| EMI Test Software | AUDIX | E3 | Version: 6.110919b | | |

# 6 Test results and Measurement Data

## 6.1 Antenna requirement

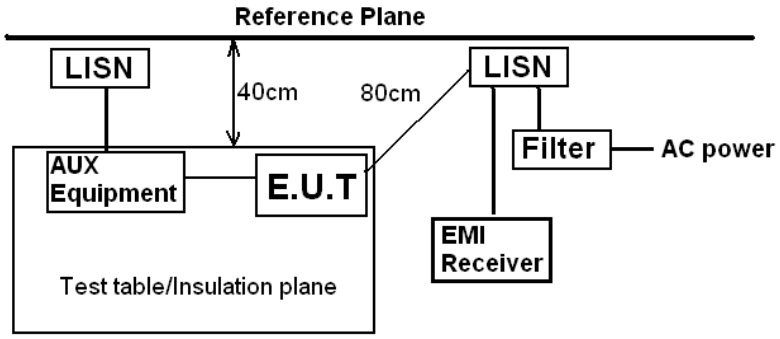
| Standard requirement: | FCC Part 15 C Section 15.203 /247(c) |
|---|---|

15.203 requirement:
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
15.247(c) (1)(i) requirement:
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

| E.U.T Antenna: | |
|---|---|

The WiFi antenna is an External antenna which cannot replace by end-user, the best case gain of the antenna is -1 dBi.

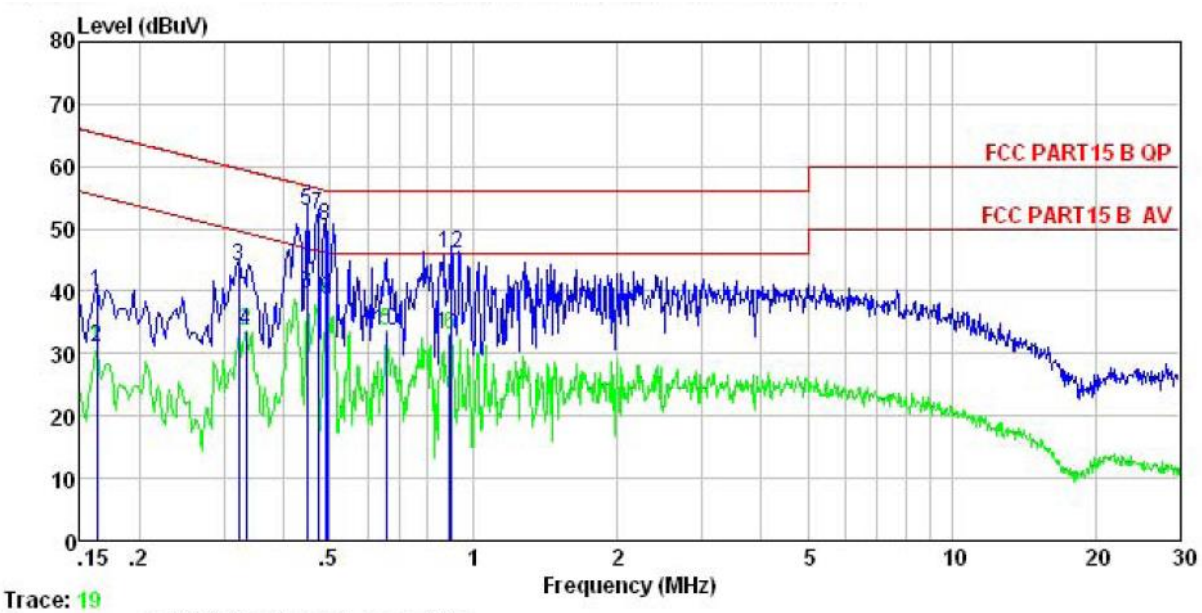
## 6.2 Conducted Emission

<table>
<tr><td>Test Requirement:</td><td colspan="3">FCC Part 15 C Section 15.207</td></tr>
<tr><td>Test Method:</td><td colspan="3">ANSI C63.10: 2013</td></tr>
<tr><td>Test Frequency Range:</td><td colspan="3">150 kHz to 30 MHz</td></tr>
<tr><td>Class / Severity:</td><td colspan="3">Class B</td></tr>
<tr><td>Receiver setup:</td><td colspan="3">RBW=9 kHz, VBW=30 kHz</td></tr>
<tr><td>Limit:</td><td>Frequency range (MHz)</td><td colspan="2">Limit (dBuV)</td></tr>
<tr><td></td><td></td><td>Quasi-peak</td><td>Average</td></tr>
<tr><td></td><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td></td><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td></td><td>5-30</td><td>60</td><td>50</td></tr>
<tr><td></td><td colspan="3">* Decreases with the logarithm of the frequency.</td></tr>
<tr><td>Test procedure</td><td colspan="3">1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment.<br>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).<br>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.</td></tr>
<tr><td>Test setup:</td><td colspan="3"> 

Remark:<br>E.U.T: Equipment Under Test<br>LISN: Line Impedence Stabilization Network<br>Test table height=0.8m</td></tr>
<tr><td>Test Instruments:</td><td colspan="3">Refer to section 5.8 for details</td></tr>
<tr><td>Test mode:</td><td colspan="3">Refer to section 5.3 for details</td></tr>
<tr><td>Test results:</td><td colspan="3">Passed</td></tr>
</table>

**Measurement Data:**

Test Phase: Neutral




Trace: 19

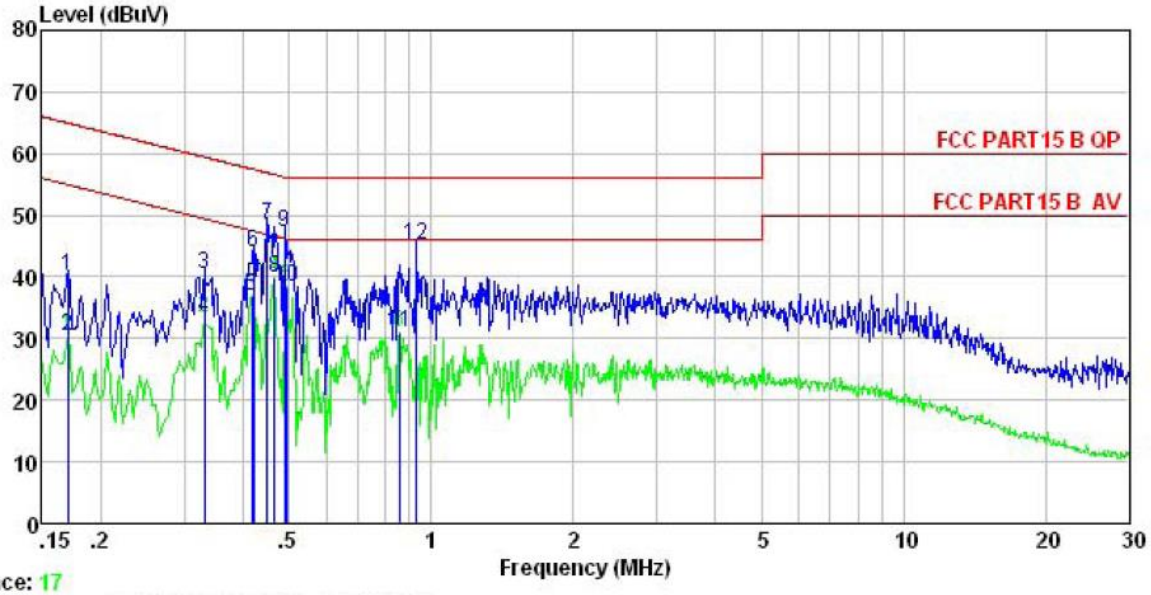
Site : CCIS Conducted test Site
Condition : FCC PART15 B QP LISN NEUTRAL
EUT : Jaguar PRO LTE
Model : PL570
Test Mode : WIFI mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 'C Huni:56% Atmos:101KPa
Test Engineer: YT
Remark :

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.162 | 28.87 | 0.25 | 10.77 | 39.89 | 65.34 | -25.45 | QP |
| 2 | 0.162 | 19.94 | 0.25 | 10.77 | 30.96 | 55.34 | -24.38 | Average |
| 3 | 0.322 | 33.12 | 0.26 | 10.73 | 44.11 | 59.66 | -15.55 | QP |
| 4 | 0.334 | 22.62 | 0.26 | 10.73 | 33.61 | 49.35 | -15.74 | Average |
| 5 | 0.447 | 41.85 | 0.27 | 10.74 | 52.86 | 56.93 | -4.07 | QP |
| 6 | 0.447 | 28.52 | 0.27 | 10.74 | 39.53 | 46.93 | -7.40 | Average |
| 7 | 0.471 | 41.14 | 0.28 | 10.75 | 52.17 | 56.49 | -4.32 | QP |
| 8 | 0.489 | 39.33 | 0.29 | 10.76 | 50.38 | 56.19 | -5.81 | QP |
| 9 | 0.494 | 27.66 | 0.29 | 10.76 | 38.71 | 46.10 | -7.39 | Average |
| 10 | 0.654 | 22.72 | 0.20 | 10.77 | 33.69 | 46.00 | -12.31 | Average |
| 11 | 0.890 | 21.92 | 0.21 | 10.84 | 32.97 | 46.00 | -13.03 | Average |
| 12 | 0.899 | 35.04 | 0.21 | 10.84 | 46.09 | 56.00 | -9.91 | QP |

*Notes:*

1. *An initial pre-scan was performed on the live and neutral lines with peak detector.*
2. *Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.*
3. *Final Level =Receiver Read level + LISN Factor + Cable Loss.*

Test Phase: **Line**




Trace: 17

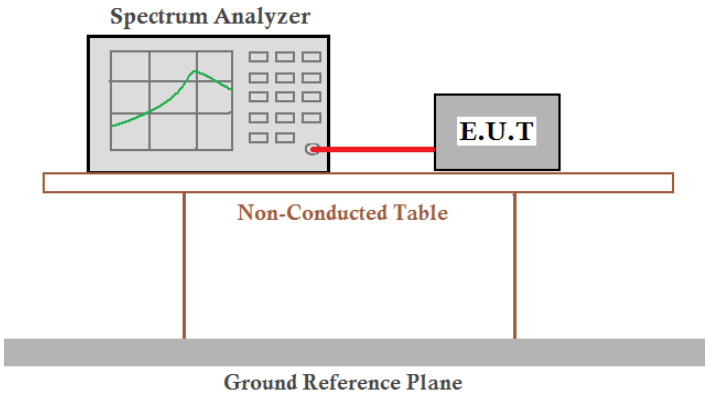
Site : CCIS Conducted test Site
Condition : FCC PART15 B QP LISN LINE
EUT : Jaguar PRO LTE
Model : PL570
Test Mode : WIFI mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 'C Huni:56% Atmos:101KPa
Test Engineer: YT
Remark :

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.170 | 28.97 | 0.27 | 10.77 | 40.01 | 64.94 | -24.93 | QP |
| 2 | 0.170 | 19.40 | 0.27 | 10.77 | 30.44 | 54.94 | -24.50 | Average |
| 3 | 0.330 | 29.36 | 0.27 | 10.73 | 40.36 | 59.44 | -19.08 | QP |
| 4 | 0.330 | 22.36 | 0.27 | 10.73 | 33.36 | 49.44 | -16.08 | Average |
| 5 | 0.417 | 25.96 | 0.28 | 10.73 | 36.97 | 47.51 | -10.54 | Average |
| 6 | 0.421 | 33.09 | 0.28 | 10.73 | 44.10 | 57.42 | -13.32 | QP |
| 7 | 0.449 | 37.53 | 0.29 | 10.74 | 48.56 | 56.89 | -8.33 | QP |
| 8 | 0.466 | 28.84 | 0.29 | 10.75 | 39.88 | 46.58 | -6.70 | Average |
| 9 | 0.489 | 36.25 | 0.29 | 10.76 | 47.30 | 56.19 | -8.89 | QP |
| 10 | 0.494 | 27.45 | 0.29 | 10.76 | 38.50 | 46.10 | -7.60 | Average |
| 11 | 0.857 | 19.91 | 0.24 | 10.83 | 30.98 | 46.00 | -15.02 | Average |
| 12 | 0.933 | 33.95 | 0.24 | 10.85 | 45.04 | 56.00 | -10.96 | QP |

*Notes:*

1. *An initial pre-scan was performed on the live and neutral lines with peak detector.*
2. *Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.*
3. *Final Level =Receiver Read level + LISN Factor + Cable Loss.*

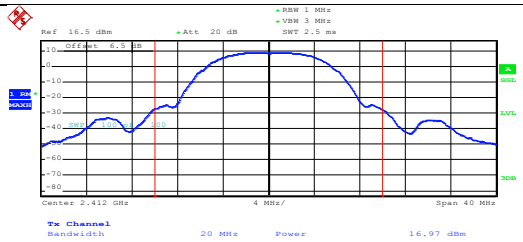
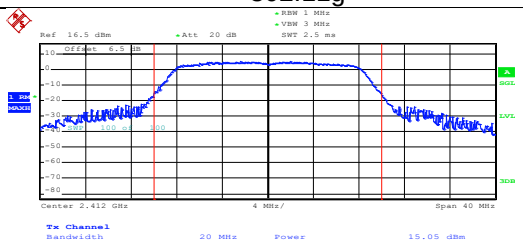
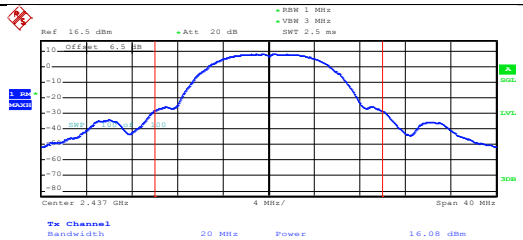
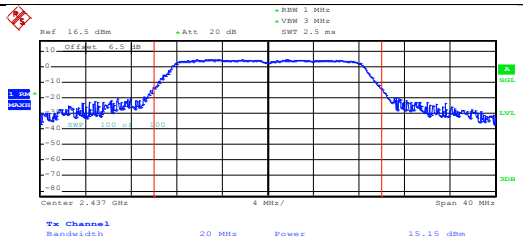
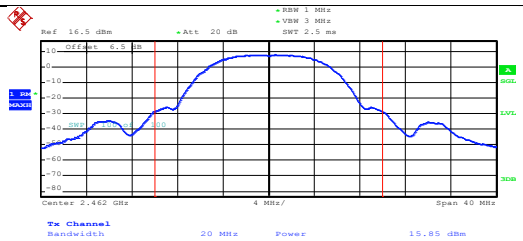
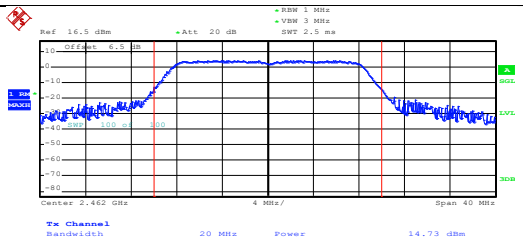
## 6.3 Conducted Output Power

| | |
|---|---|
| Test Requirement: | FCC Part 15 C Section 15.247 (b)(3) |
| Test Method: | ANSI C63.10:2013 and KDB 558074 |
| Limit: | 30dBm |
| Test setup: |  |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

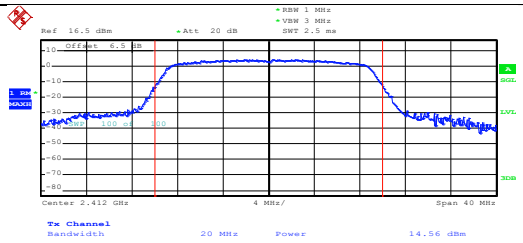
**Measurement Data:**

| Test CH | Maximum Conducted Output Power (dBm) | | | Limit(dBm) | Result |
|---|---|---|---|---|---|
| | 802.11b | 802.11g | 802.11n(H20) | | |
| Lowest | 16.97 | 15.05 | 14.65 | 30.00 | Pass |
| Middle | 16.08 | 15.15 | 14.99 | | |
| Highest | 15.85 | 14.73 | 14.63 | | |

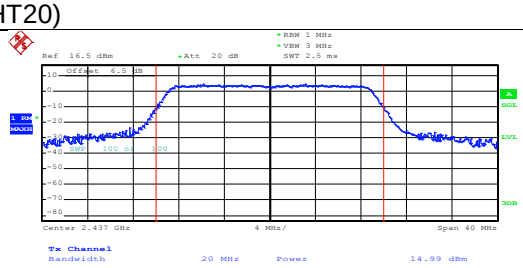
**Test plot as follows:**

| 802.11b | 802.11g |
|---|---|
|  <br>Date: 10.AUG.2018 13:57:48 |  <br>Date: 10.AUG.2018 13:59:00 |
| Lowest channel | Lowest channel |
|  <br>Date: 10.AUG.2018 13:58:07 |  <br>Date: 10.AUG.2018 13:59:40 |
| Middle channel | Middle channel |
|  <br>Date: 10.AUG.2018 13:58:27 |  <br>Date: 10.AUG.2018 13:59:59 |
| Highest channel | |

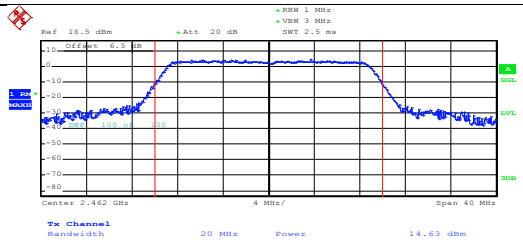
802.11n(HT20)




Lowest channel

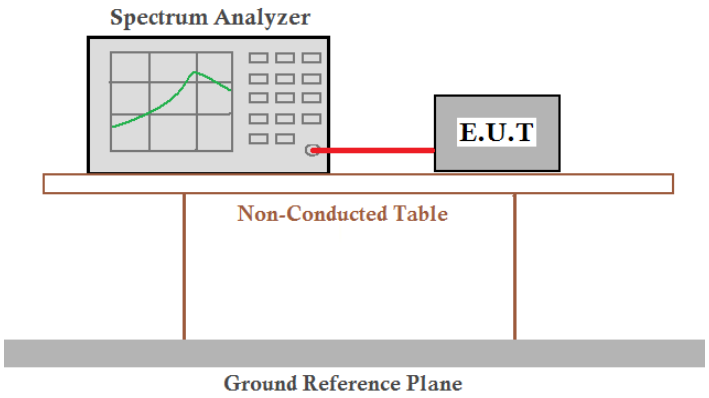



Middle channel




Highest channel

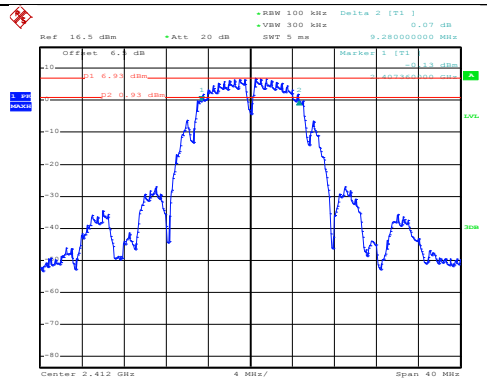
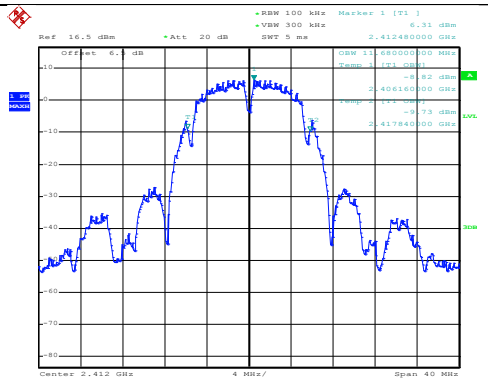
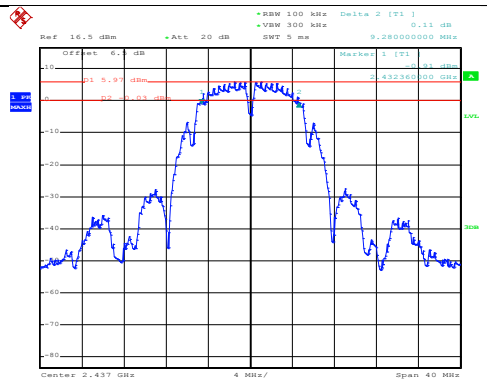
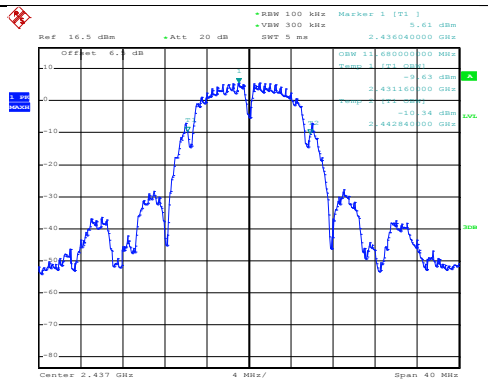
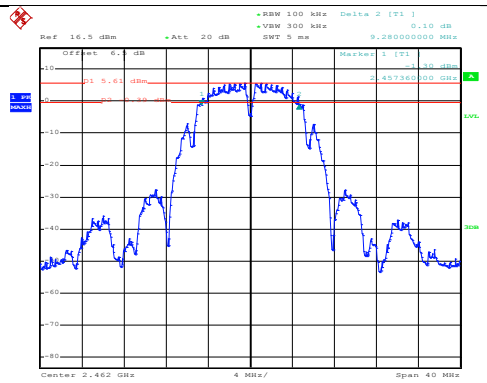
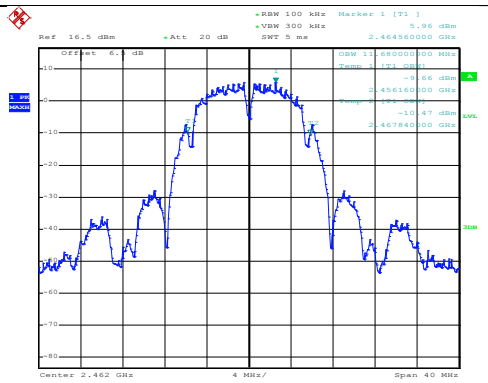
## 6.4 Occupy Bandwidth

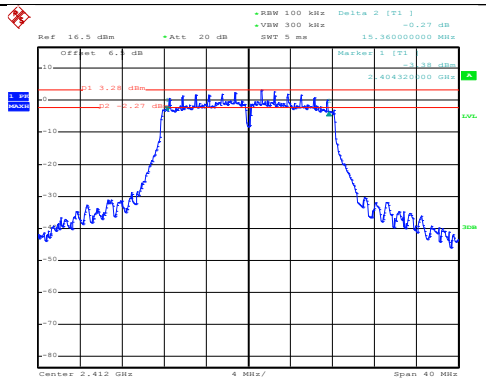
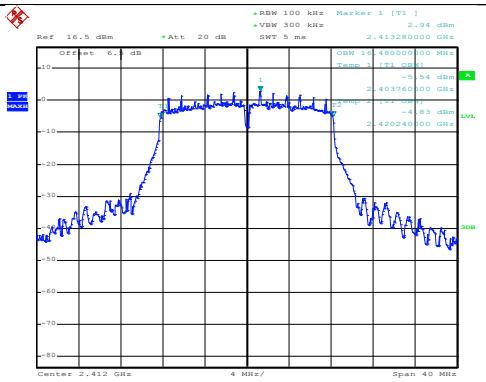
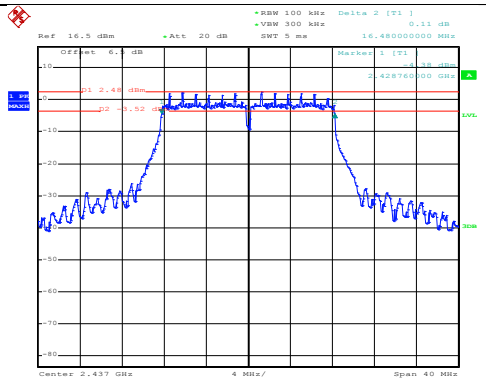
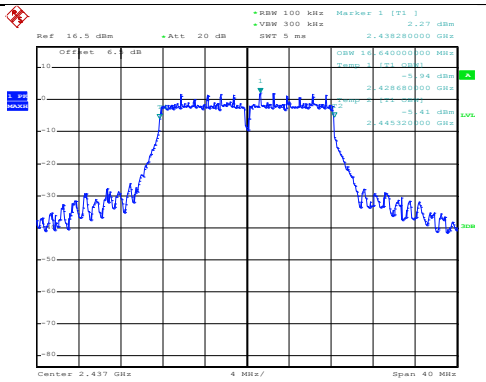
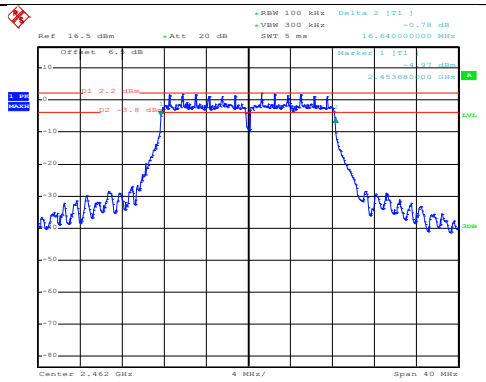
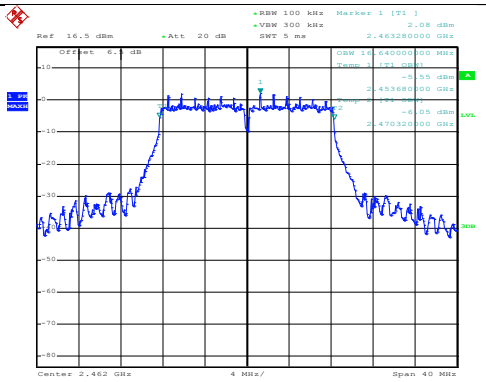
| | |
|---|---|
| Test Requirement: | FCC Part 15 C Section 15.247 (a)(2) |
| Test Method: | ANSI C63.10:2013 and KDB 558074 |
| Limit: | >500kHz |
| Test setup: |  |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

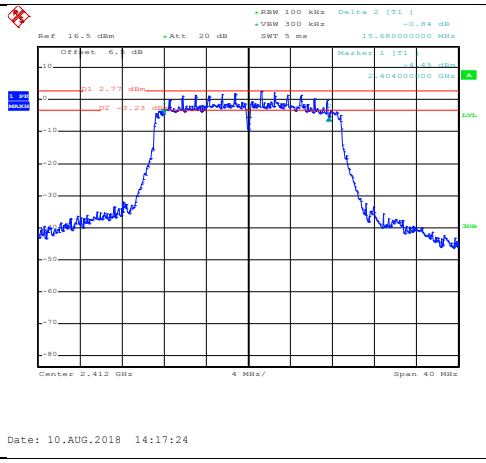
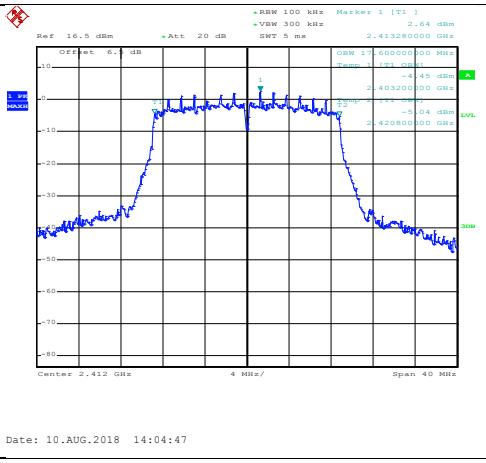
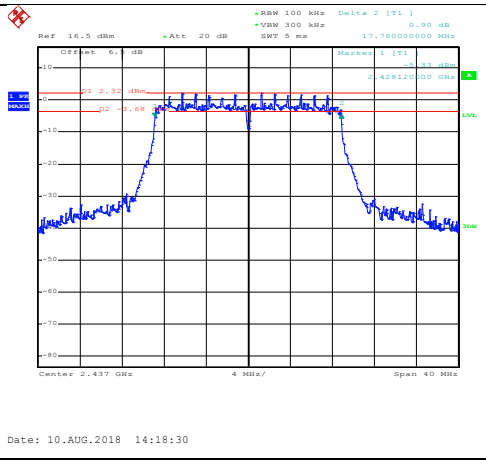
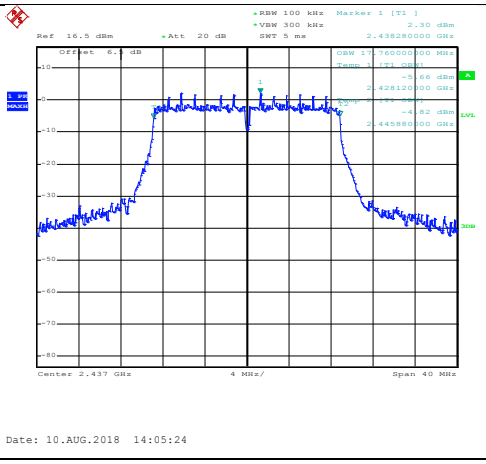
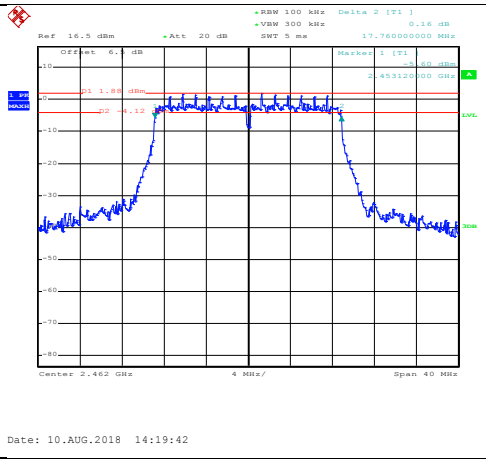
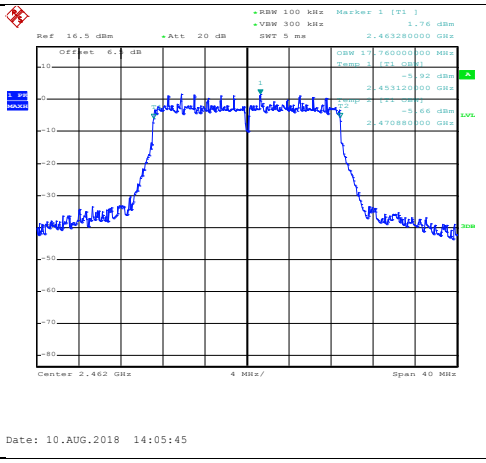
**Measurement Data:**

| Test CH | 6dB Emission Bandwidth (MHz) | | | Limit(kHz) | Result |
|---|---|---|---|---|---|
| | 802.11b | 802.11g | 802.11n(H20) | | |
| Lowest | 9.28 | 15.36 | 15.68 | >500 | Pass |
| Middle | 9.28 | 16.48 | 17.76 | | |
| Highest | 9.28 | 16.64 | 17.76 | | |
| Test CH | 99% Occupy Bandwidth (MHz) | | | Limit(kHz) | Result |
| | 802.11b | 802.11g | 802.11n(H20) | | |
| Lowest | 11.68 | 16.48 | 17.60 | N/A | N/A |
| Middle | 11.68 | 16.64 | 17.76 | | |
| Highest | 11.68 | 16.64 | 17.76 | | |

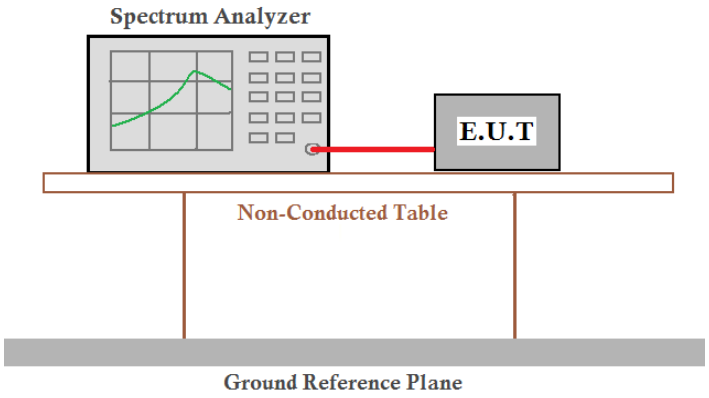
**Test plot as follows:**

| 802.11b | |
|---|---|
| **6dB EBW** | **99% OBW** |
|  |  |
| Lowest channel | Lowest channel |
|  |  |
| Middle channel | Middle channel |
|  |  |
| Highest channel | Highest channel |

| 802.11g | |
|---|---|
| **6dB EBW** | **99% OBW** |
|  |  |
| Lowest channel | Lowest channel |
|  |  |
| Middle channel | Middle channel |
|  |  |
| Highest channel | Highest channel |

| 802.11n(H20) | |
|---|---|
| **6dB EBW** | **99% OBW** |
|  |  |
| Lowest channel | Lowest channel |
|  |  |
| Middle channel | Middle channel |
|  |  |
| Highest channel | Highest channel |

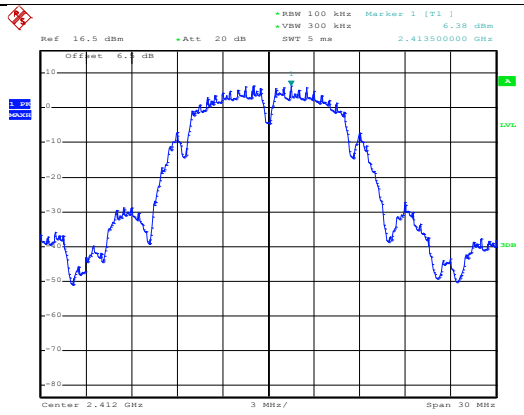
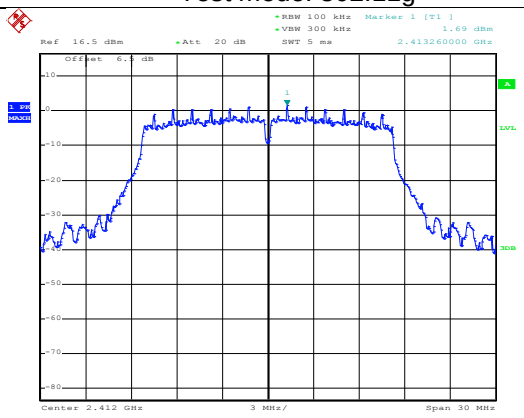
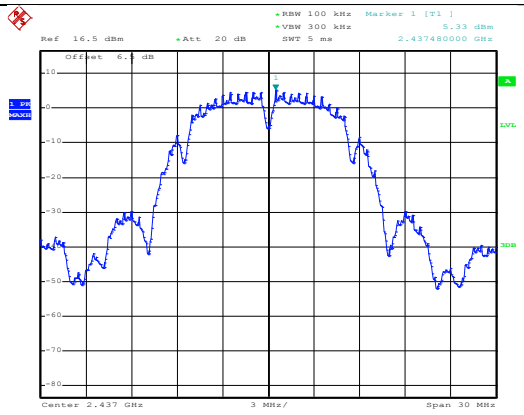
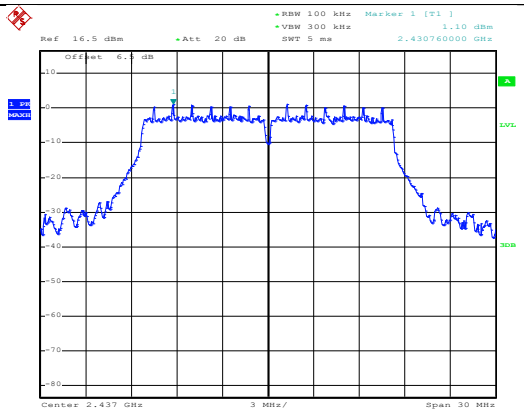
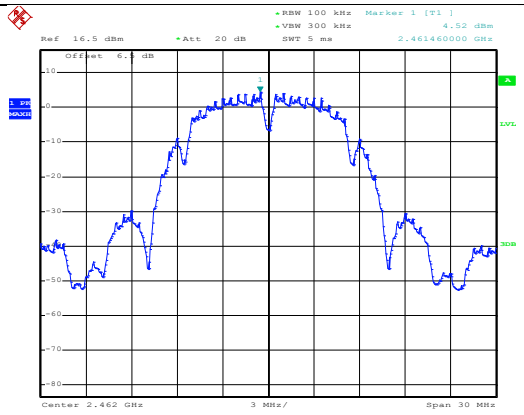
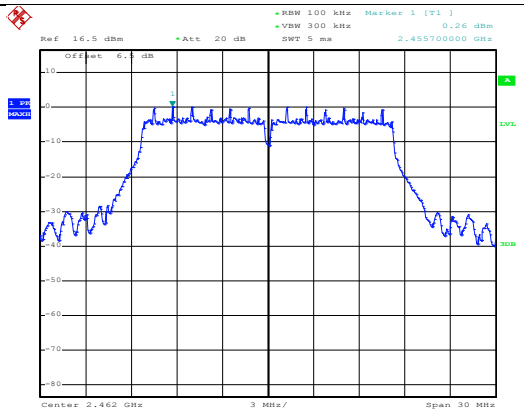
## 6.5 Power Spectral Density

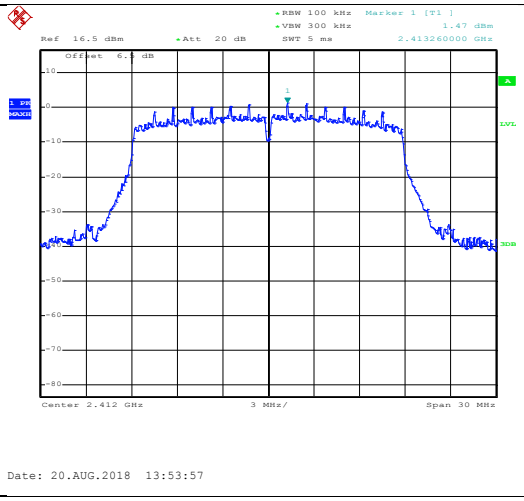
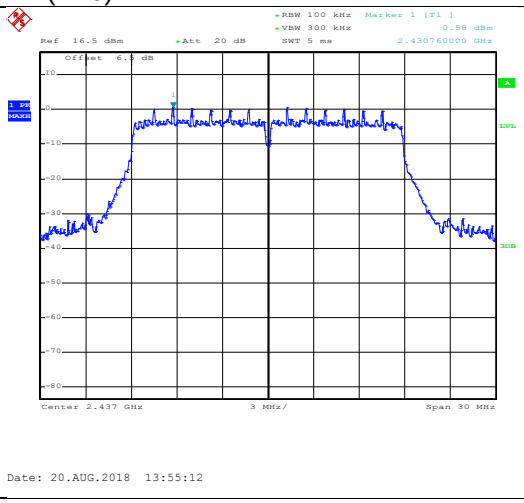
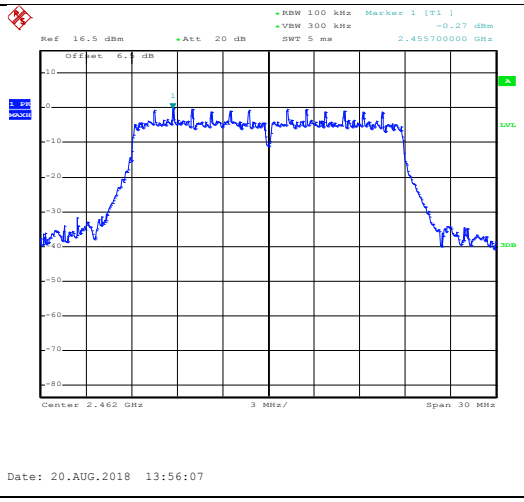
| | |
|---|---|
| Test Requirement: | FCC Part 15 C Section 15.247 (e) |
| Test Method: | ANSI C63.10:2013 and KDB 558074 |
| Limit: | 8dBm |
| Test setup: |  |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

**Measurement Data:**

| Test CH | Power Spectral Density (dBm) | | | Limit(dBm) | Result |
|---|---|---|---|---|---|
| | 802.11b | 802.11g | 802.11n(H20) | | |
| Lowest | 6.38 | 1.69 | 1.47 | 8.00 | Pass |
| Middle | 5.33 | 1.10 | 0.58 | | |
| Highest | 4.52 | 0.26 | -0.27 | | |

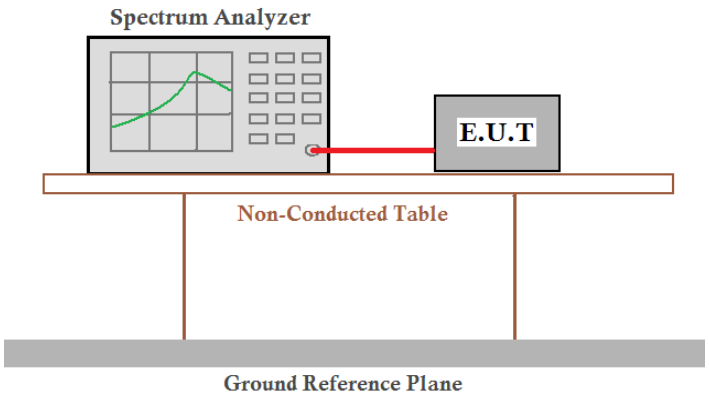
**Test plot as follows:**

| Test mode: 802.11b | Test mode: 802.11g |
|---|---|
|  |  |
| Lowest channel | Lowest channel |
|  |  |
| Middle channel | Middle channel |
|  |  |
| Highest channel | Highest channel |

| Test mode: 802.11n(H20) | |
|---|---|
|  |  |
| Lowest channel | Middle channel |
|  | |
| Highest channel | |

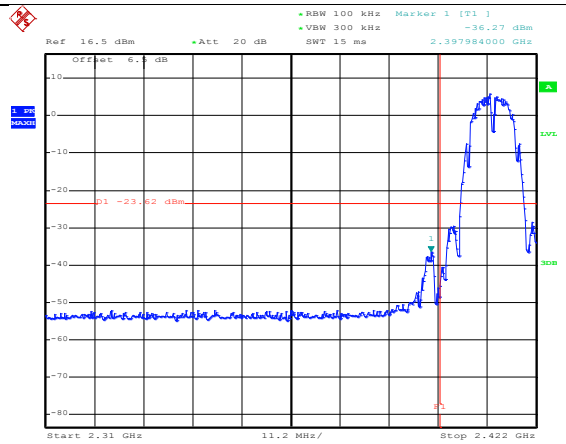
## 6.6 Band Edge

### 6.6.1 Conducted Emission Method

| | |
|---|---|
| Test Requirement: | FCC Part 15 C Section 15.247 (d) |
| Test Method: | ANSI C63.10:2013 and KDB 558074 |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test setup: |  |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

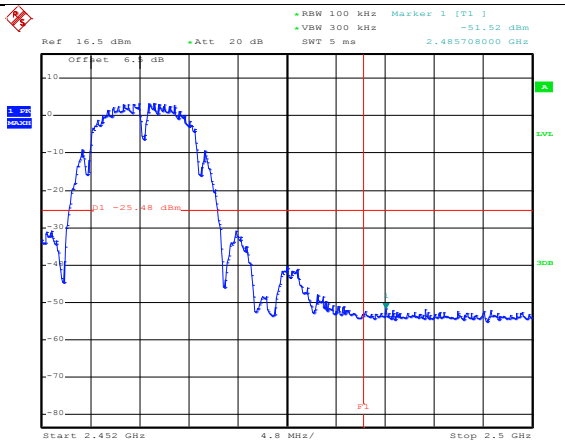
**Test plot as follows:**

802.11b




Date: 20.AUG.2018 14:01:31

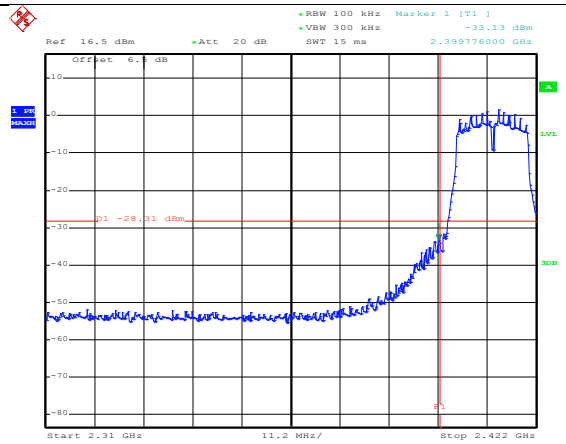
Lowest channel




Date: 20.AUG.2018 14:03:30

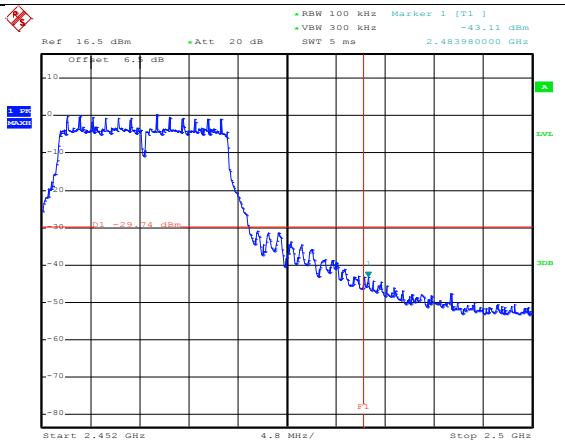
Highest channel

802.11g




Date: 20.AUG.2018 14:02:04

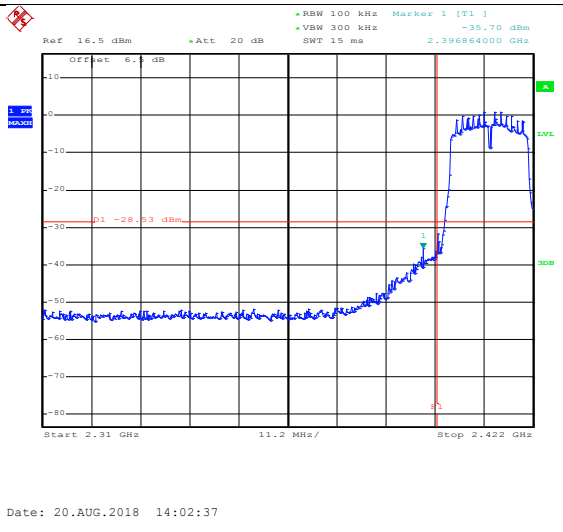
Lowest channel



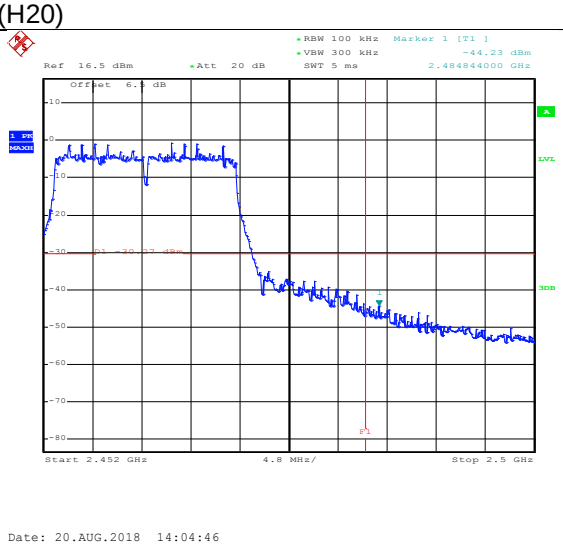

Date: 20.AUG.2018 14:04:09

Highest channel

802.11n(H20)

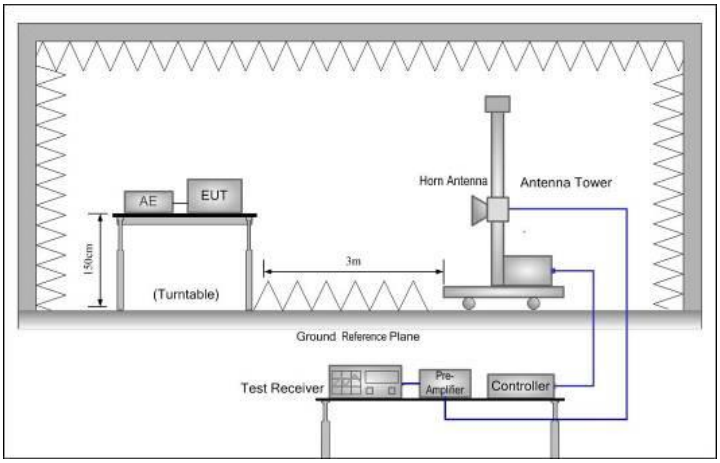



Lowest channel




Highest channel

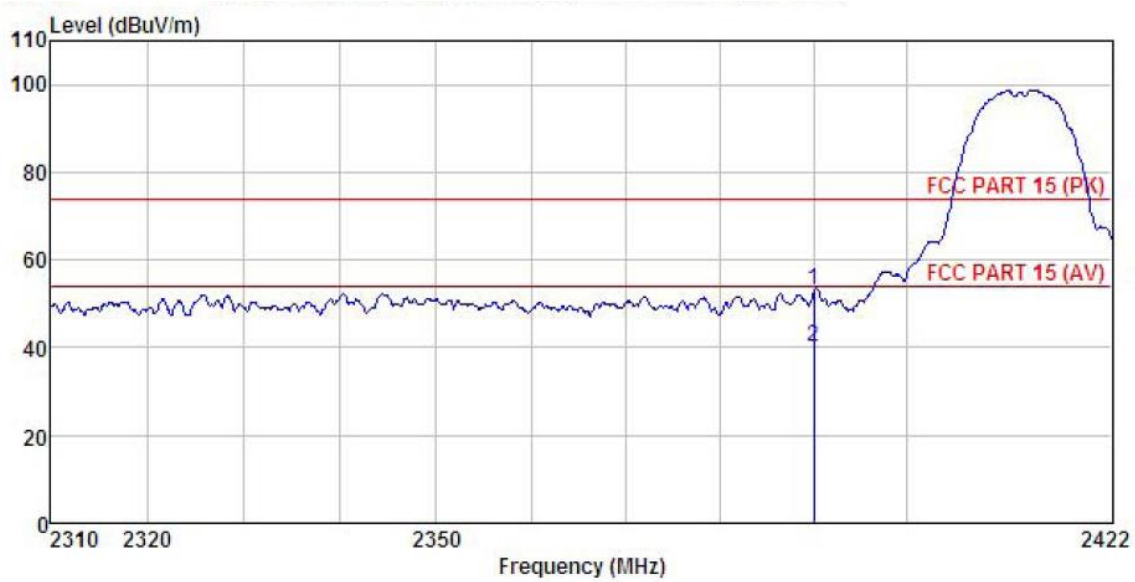
### 6.6.2 Radiated Emission Method

<table>
<tr><td>Test Requirement:</td><td colspan="5">FCC Part 15 C Section 15.209 and 15.205</td></tr>
<tr><td>Test Method:</td><td colspan="5">ANSI C63.10: 2013 and KDB 558074</td></tr>
<tr><td>Test Frequency Range:</td><td colspan="5">2.3GHz to 2.5GHz</td></tr>
<tr><td>Test Distance:</td><td colspan="5">3m</td></tr>
<tr><td rowspan="3">Receiver setup:</td><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>RMS</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
<tr><td rowspan="3">Limit:</td><td colspan="2">Frequency</td><td colspan="2">Limit (dBuV/m @3m)</td><td>Remark</td></tr>
<tr><td colspan="2" rowspan="2">Above 1GHz</td><td colspan="2">54.00</td><td>Average Value</td></tr>
<tr><td colspan="2">74.00</td><td>Peak Value</td></tr>
<tr><td>Test Procedure:</td><td colspan="5">1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.<br>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.<br>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.<br>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.<br>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.<br>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</td></tr>
<tr><td>Test setup:</td><td colspan="5"> 
</td></tr>
<tr><td>Test Instruments:</td><td colspan="5">Refer to section 5.8 for details</td></tr>
<tr><td>Test mode:</td><td colspan="5">Refer to section 5.3 for details</td></tr>
<tr><td>Test results:</td><td colspan="5">Passed</td></tr>
</table>

**802.11b**

**Test channel: Lowest channel**

Test Polarization: Horizontal



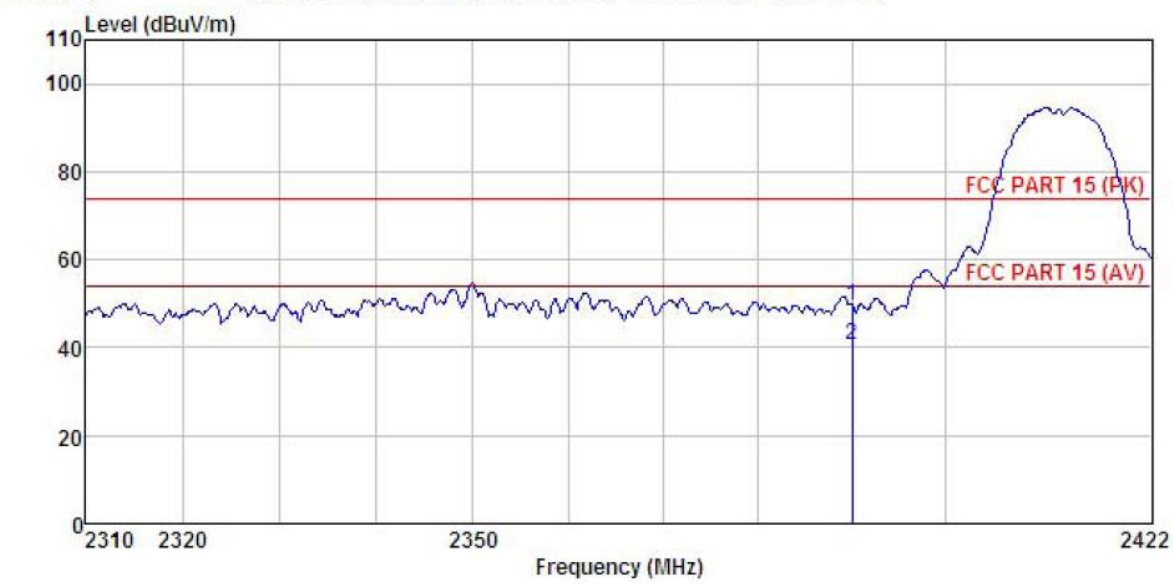

Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT : Jaguar PRO LTE
Model : PL570
Test mode : 802.11b-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5'C Huni:55% 101KPa
Test Engineer: YT
REMARK :

| | Freq | ReadAntenna Level | Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2390.000 | 21.25 | 27.37 | 4.69 | 0.00 | 53.31 | 74.00 | -20.69 | Peak |
| 2 | 2390.000 | 8.24 | 27.37 | 4.69 | 0.00 | 40.30 | 54.00 | -13.70 | Average |

*Remark:*

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Test Polarization: Vertical




Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : Jaguar PRO LTE
Model : PL570
Test mode : 802.11b-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5'C Huni:55% 101KPa
Test Engineer: YT
REMARK :

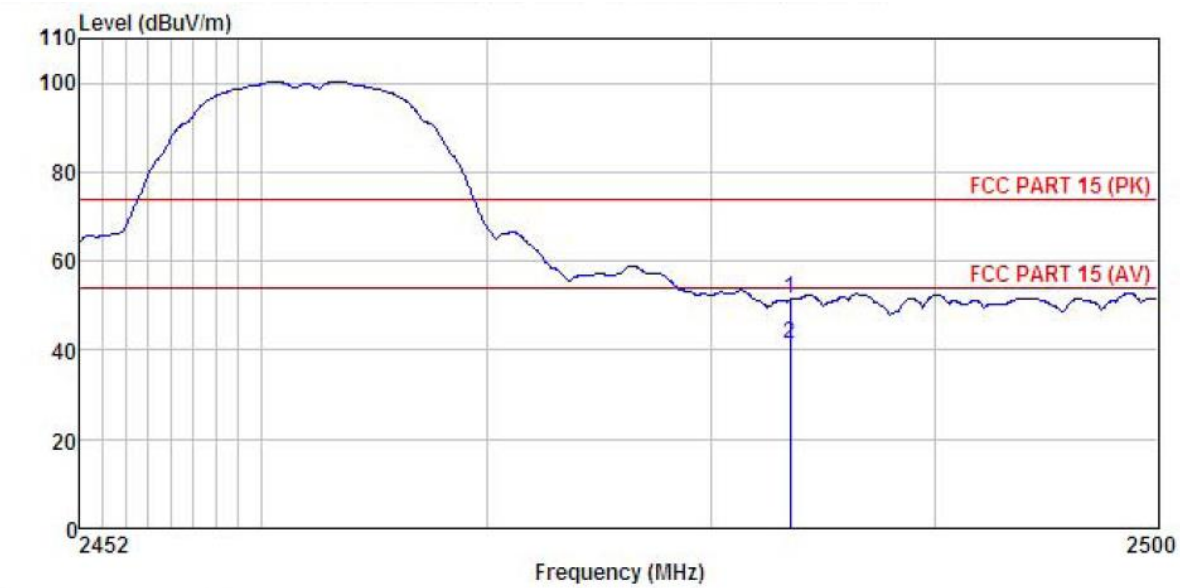
| | Freq | ReadAntenna Level | Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2390.000 | 17.33 | 27.37 | 4.69 | 0.00 | 49.39 | 74.00 | -24.61 | Peak |
| 2 | 2390.000 | 8.55 | 27.37 | 4.69 | 0.00 | 40.61 | 54.00 | -13.39 | Average |

*Remark:*

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

**Test channel: Highest channel**

Test Polarization: Horizontal




```
Site          : 3m chamber
Condition     : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT           : Jaguar PRO LTE
Model         : PL570
Test mode     : 802.11b-H mode
Power Rating  : AC120V/60Hz
Environment   : Temp:25.5'C  Huni:55%  101KPa
Test Engineer: YT
REMARK        :
```

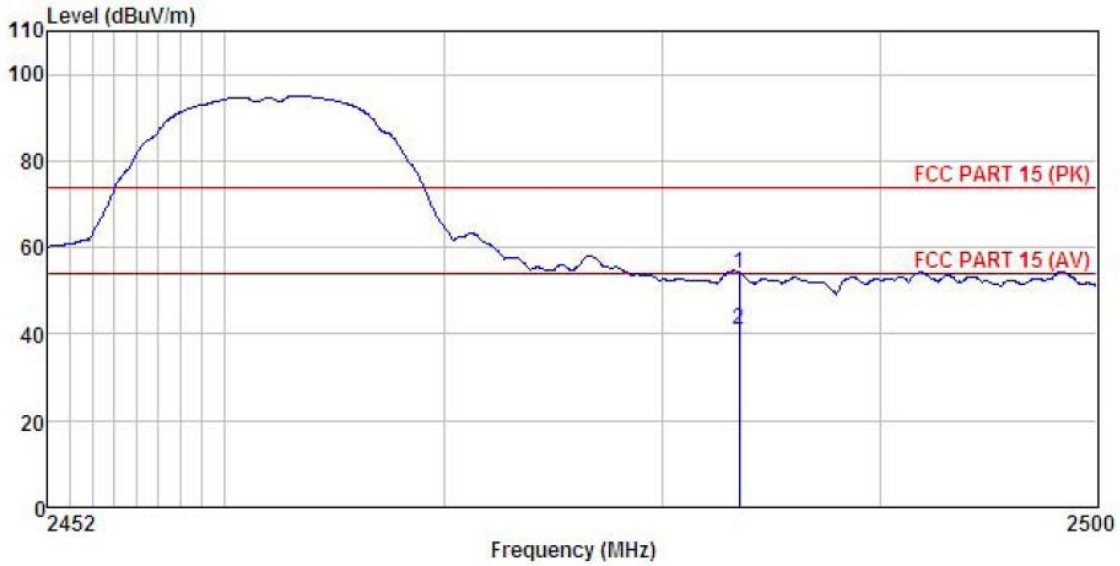
| | Freq | ReadAntenna Level | Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 19.11 | 27.57 | 4.81 | 0.00 | 51.49 | 74.00 | -22.51 | Peak |
| 2 | 2483.500 | 9.01 | 27.57 | 4.81 | 0.00 | 41.39 | 54.00 | -12.61 | Average |

*Remark:*

*1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*

*2. The emission levels of other frequencies are very lower than the limit and not show in test report.*

Test Polarization: Vertical




Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : Jaguar PRO LTE
Model : PL570
Test mode : 802.11b-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: YT
REMARK :

| | Freq | ReadLevel | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 21.70 | 27.57 | 4.81 | 0.00 | 54.08 | 74.00 | -19.92 | Peak |
| 2 | 2483.500 | 8.54 | 27.57 | 4.81 | 0.00 | 40.92 | 54.00 | -13.08 | Average |

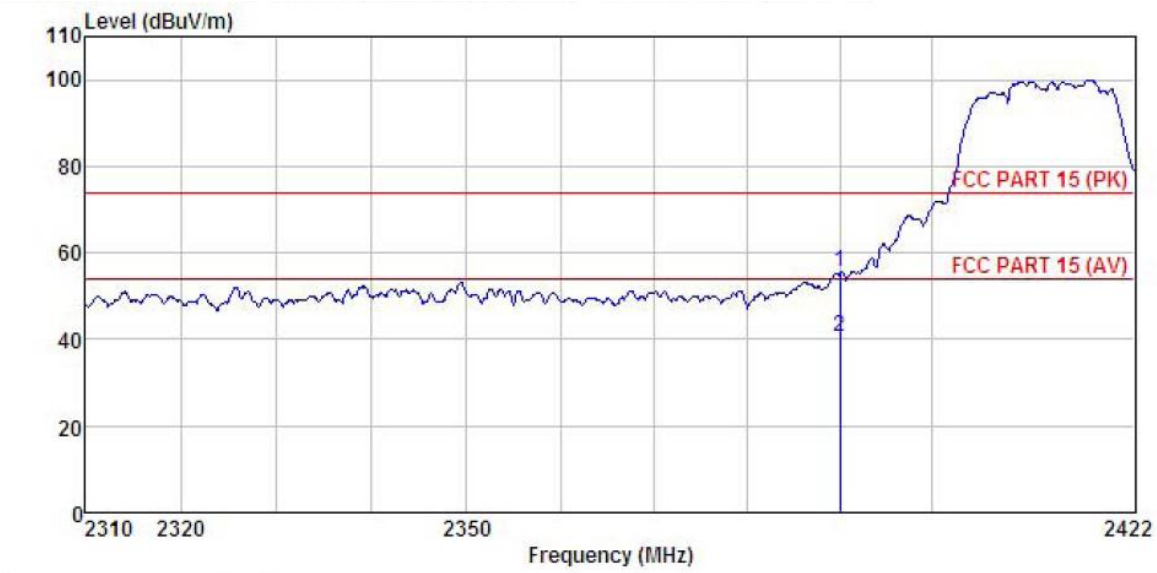
*Remark:*

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

**802.11g**

**Test channel: Lowest channel**

Test Polarization: Horizontal




```
Site          : 3m chamber
Condition     : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT           : Jaguar PRO LTE
Model         : PL570
Test mode     : 802.11g-L mode
Power Rating  : AC120V/60Hz
Environment   : Temp:25.5'C  Huni:55%  101KPa
Test Engineer: YT
REMARK        :
```

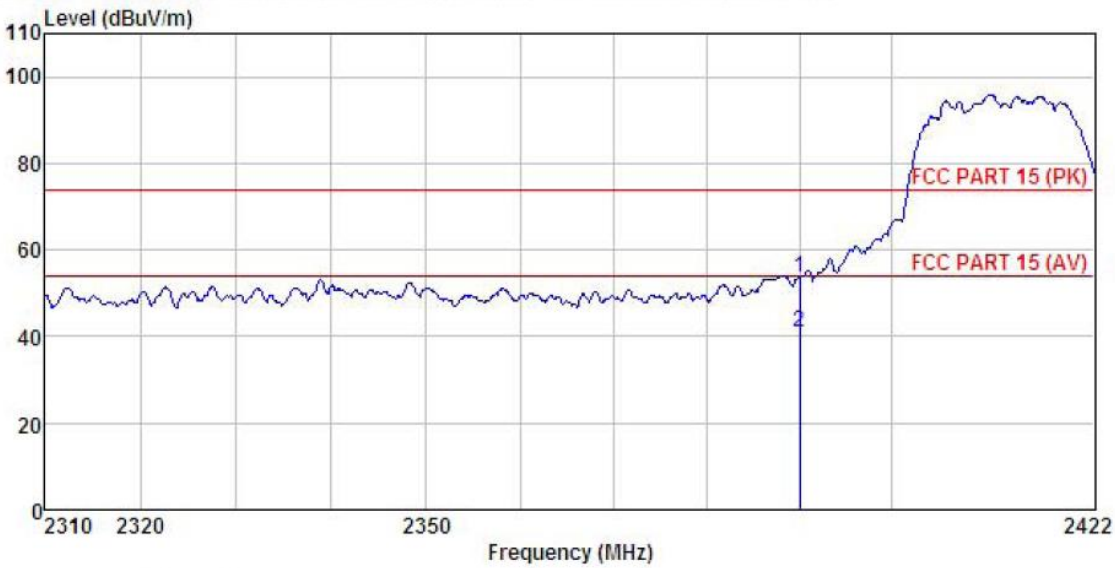
| | Freq | ReadAntenna Level | Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2390.000 | 23.51 | 27.37 | 4.69 | 0.00 | 55.57 | 74.00 | -18.43 | Peak |
| 2 | 2390.000 | 8.38 | 27.37 | 4.69 | 0.00 | 40.44 | 54.00 | -13.56 | Average |

*Remark:*

*1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*

2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Test Polarization: Vertical




Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : Jaguar PRO LTE
Model : PL570
Test mode : 802.11g-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5'C Huni:55% 101KPa
Test Engineer: YT
REMARK :

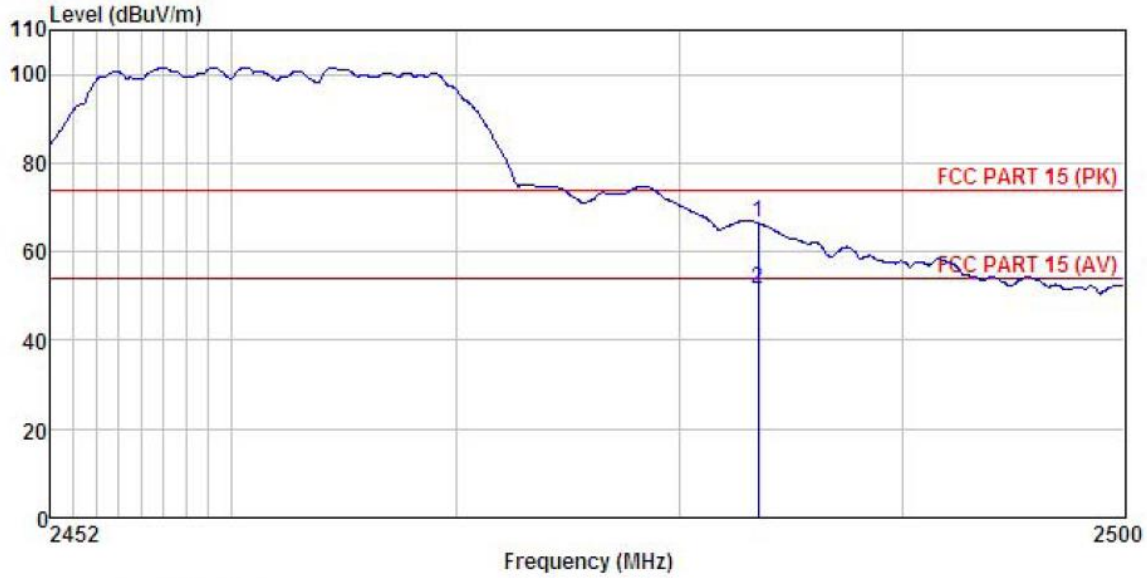
| | Freq | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2390.000 | 21.45 | 27.37 | 4.69 | 0.00 | 53.51 | 74.00 | -20.49 | Peak |
| 2 | 2390.000 | 8.74 | 27.37 | 4.69 | 0.00 | 40.80 | 54.00 | -13.20 | Average |

*Remark:*

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

**Test channel: Highest channel**

Test Polarization: Horizontal




```
Site          : 3m chamber
Condition     : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT           : Jaguar PRO LTE
Model         : PL570
Test mode     : 802.11g-H mode
Power Rating  : AC120V/60Hz
Environment   : Temp:25.5'C  Huni:55%  101KPa
Test Engineer: YT
REMARK        :
```

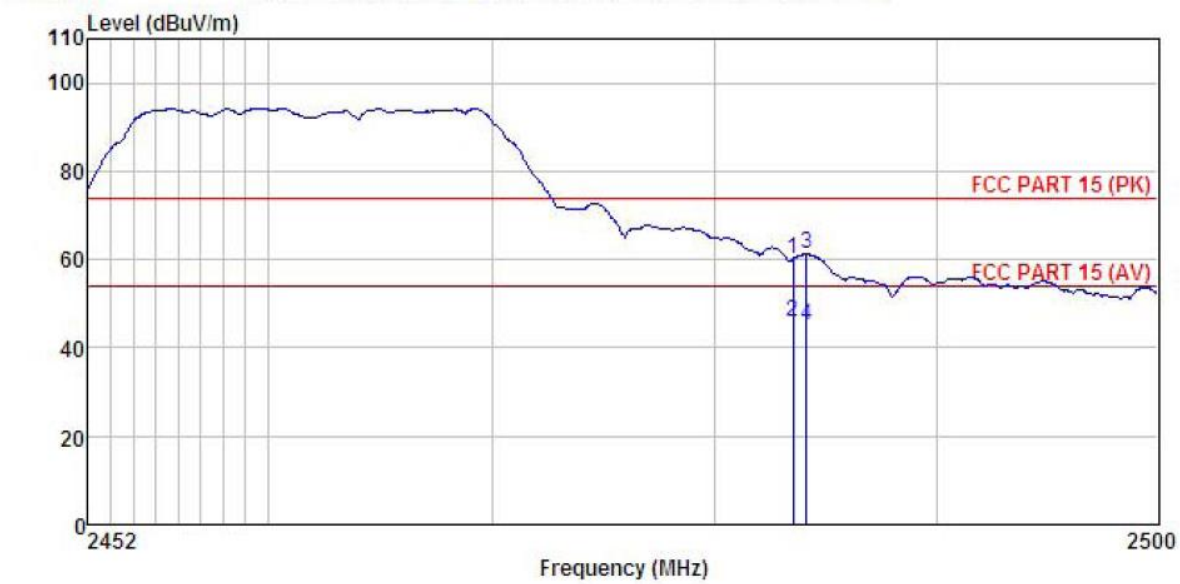
| | Freq | ReadAntenna Level | Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 34.15 | 27.57 | 4.81 | 0.00 | 66.53 | 74.00 | -7.47 | Peak |
| 2 | 2483.500 | 19.19 | 27.57 | 4.81 | 0.00 | 51.57 | 54.00 | -2.43 | Average |

*Remark:*

*1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*

2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Test Polarization: Vertical




Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : Jaguar PRO LTE
Model : PL570
Test mode : 802.11g-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5℃ Huni:55% 101KPa
Test Engineer: YT
REMARK :

| | Freq | ReadAntenna Level | Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 27.55 | 27.57 | 4.81 | 0.00 | 59.93 | 74.00 | -14.07 | Peak |
| 2 | 2483.500 | 13.34 | 27.57 | 4.81 | 0.00 | 45.72 | 54.00 | -8.28 | Average |
| 3 | 2484.105 | 28.78 | 27.58 | 4.81 | 0.00 | 61.17 | 74.00 | -12.83 | Peak |
| 4 | 2484.105 | 12.74 | 27.58 | 4.81 | 0.00 | 45.13 | 54.00 | -8.87 | Average |

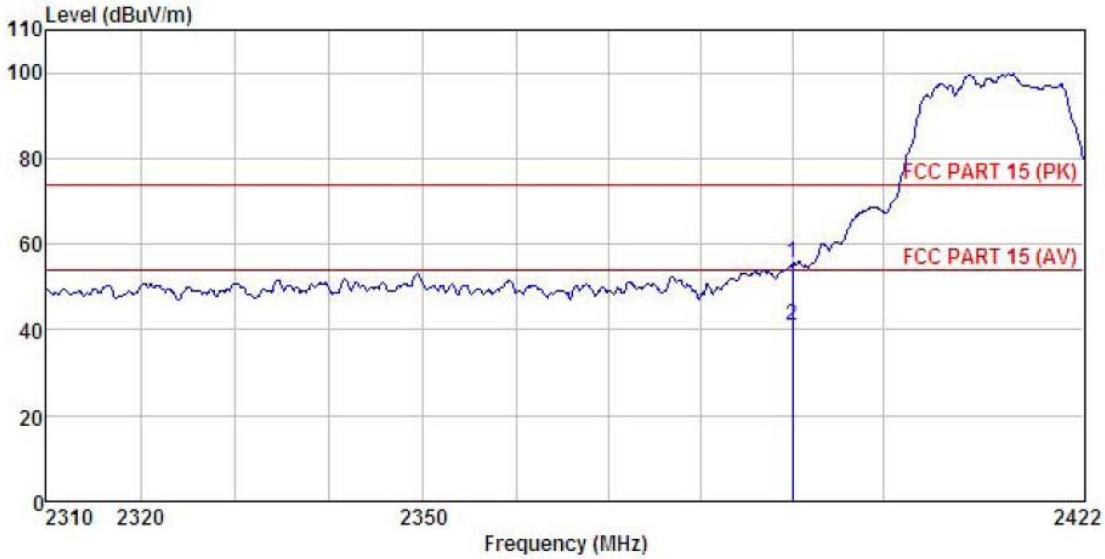
*Remark:*

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

**802.11n (H20)**

**Test channel: Lowest channel**

Test Polarization: Horizontal




```
Site          : 3m chamber
Condition     : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT           : Jaguar PRO LTE
Model         : PL570
Test mode     : 802.11n20-L mode
Power Rating  : AC120V/60Hz
Environment   : Temp:25.5'C  Huni:55%  101KPa
Test Engineer: YT
REMARK        :
```

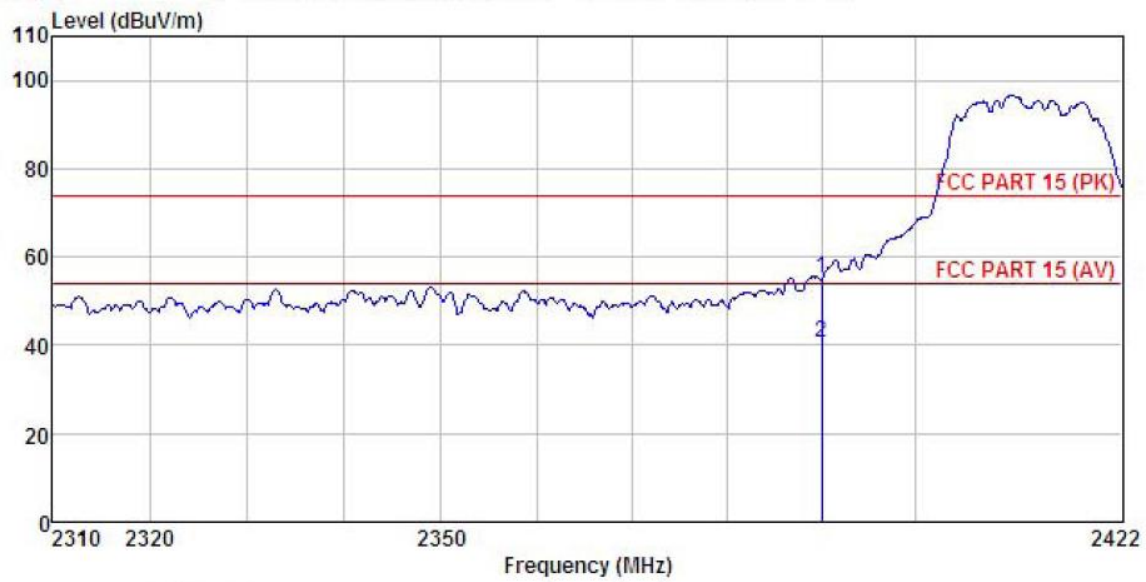
| | Freq | ReadAntenna Level | Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2390.000 | 23.36 | 27.37 | 4.69 | 0.00 | 55.42 | 74.00 | -18.58 | Peak |
| 2 | 2390.000 | 8.94 | 27.37 | 4.69 | 0.00 | 41.00 | 54.00 | -13.00 | Average |

*Remark:*

*1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*

2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Test Polarization: Vertical




Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : Jaguar PRO LTE
Model : PL570
Test mode : 802.11n20-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5'C Huni:55% 101KPa
Test Engineer: YT
REMARK :

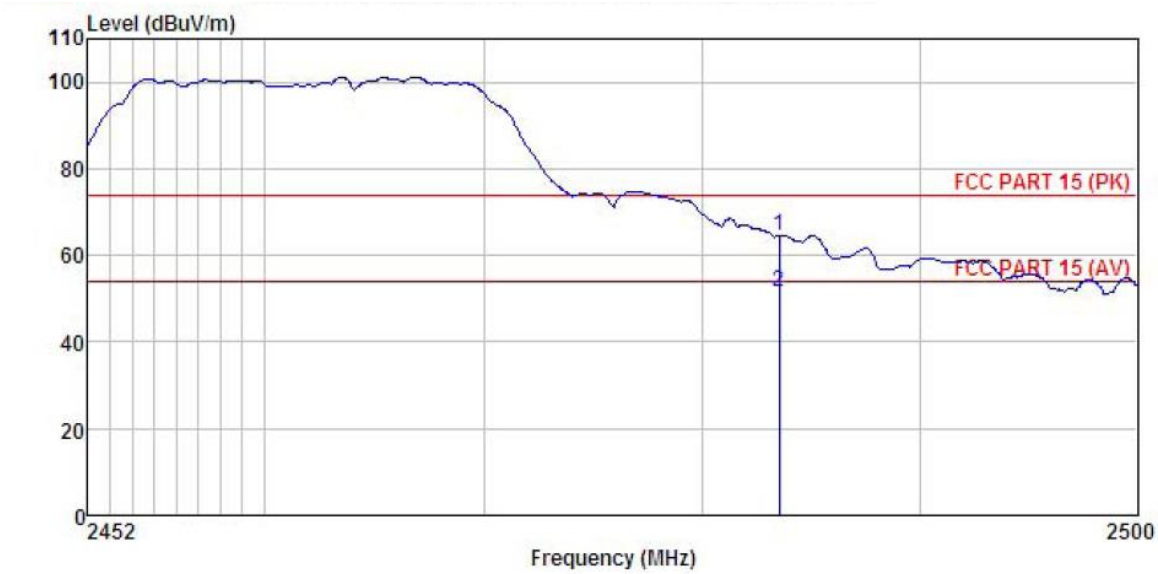
| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2390.000 | 23.02 | 27.37 | 4.69 | 0.00 | 55.08 | 74.00 | -18.92 | Peak |
| 2 | 2390.000 | 8.51 | 27.37 | 4.69 | 0.00 | 40.57 | 54.00 | -13.43 | Average |

*Remark:*

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

**Test channel: Highest channel**

Test Polarization: Horizontal



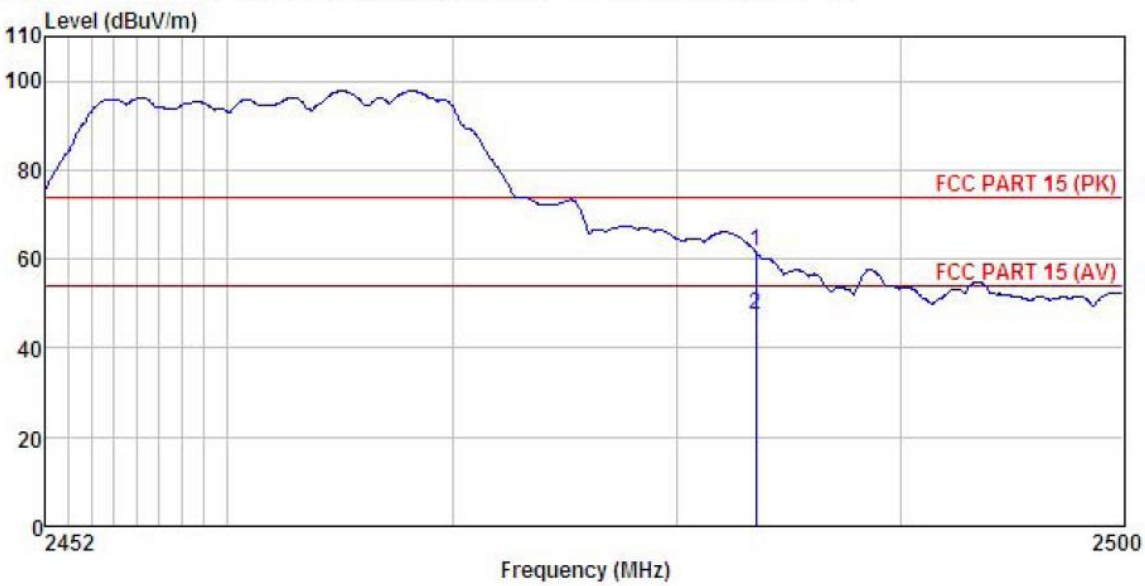

Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT : Jaguar PRO LTE
Model : PL570
Test mode : 802.11n20-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5℃ Huni:55% 101KPa
Test Engineer: YT
REMARK :

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 32.12 | 27.57 | 4.81 | 0.00 | 64.50 | 74.00 | -9.50 | Peak |
| 2 | 2483.500 | 19.17 | 27.57 | 4.81 | 0.00 | 51.55 | 54.00 | -2.45 | Average |

*Remark:*

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Test Polarization: Vertical




```
Site          : 3m chamber
Condition     : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT           : Jaguar PRO LTE
Model         : PL570
Test mode     : 802.11n20-H mode
Power Rating  : AC120V/60Hz
Environment   : Temp:25.5'C  Huni:55%  101KPa
Test Engineer: YT
REMARK        :
```

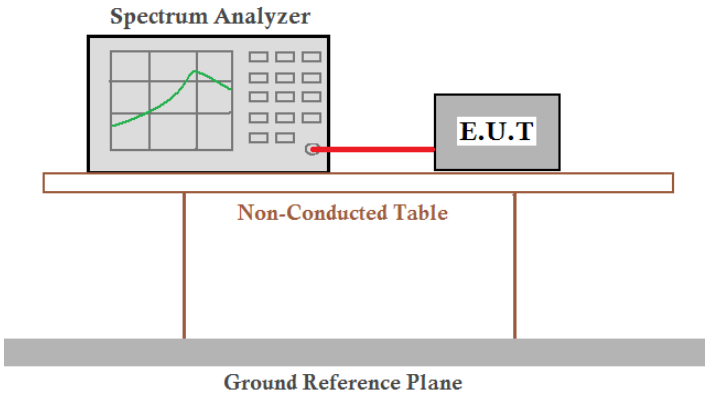
| | Freq | ReadAntenna Level | Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2483.500 | 29.49 | 27.57 | 4.81 | 0.00 | 61.87 | 74.00 | -12.13 | Peak |
| 2 | 2483.500 | 14.92 | 27.57 | 4.81 | 0.00 | 47.30 | 54.00 | -6.70 | Average |

*Remark:*

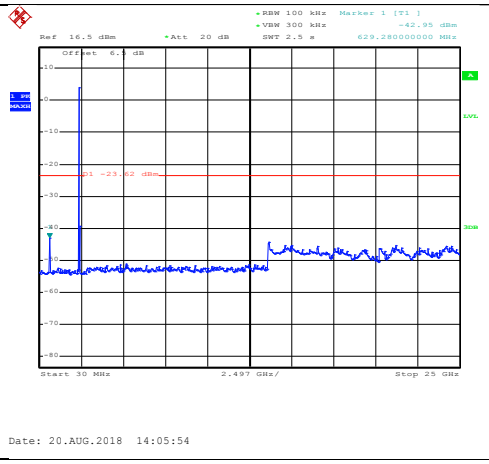
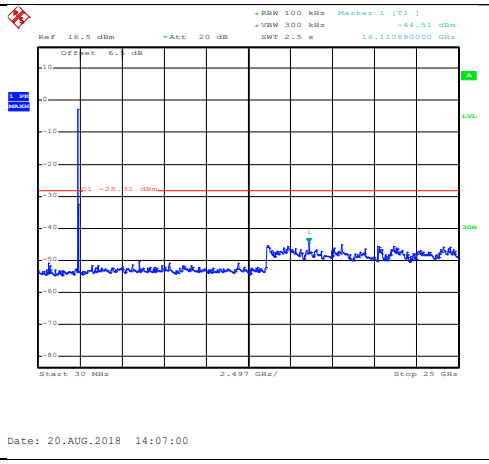
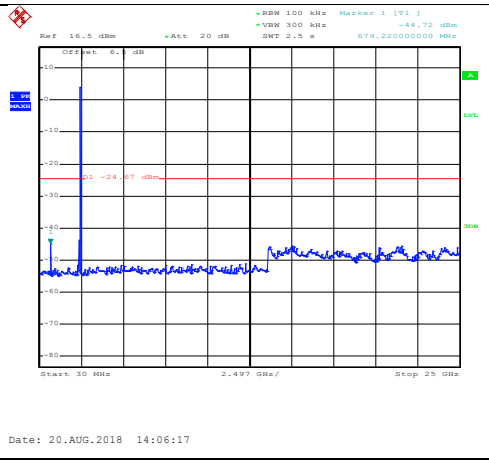
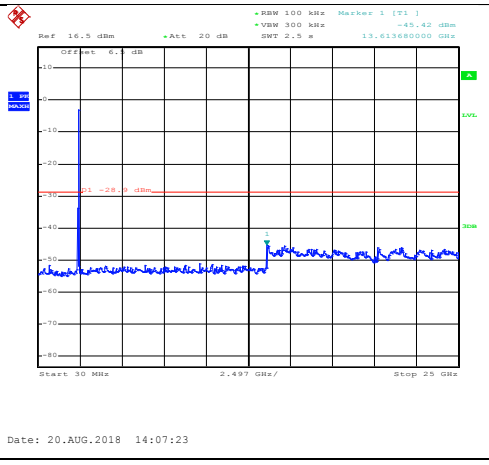
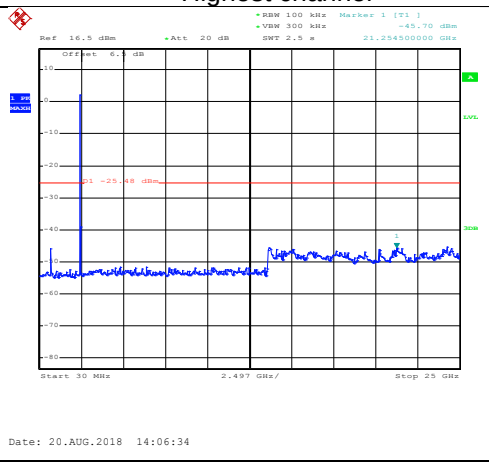
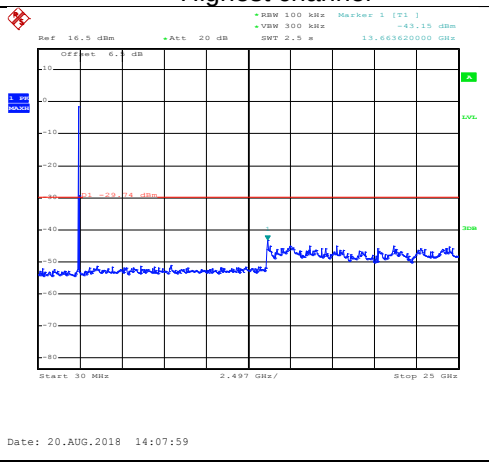
1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

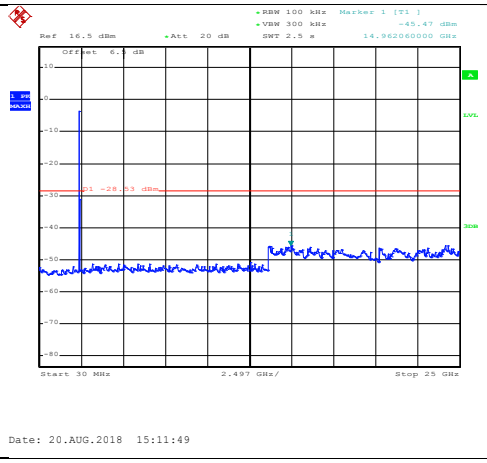
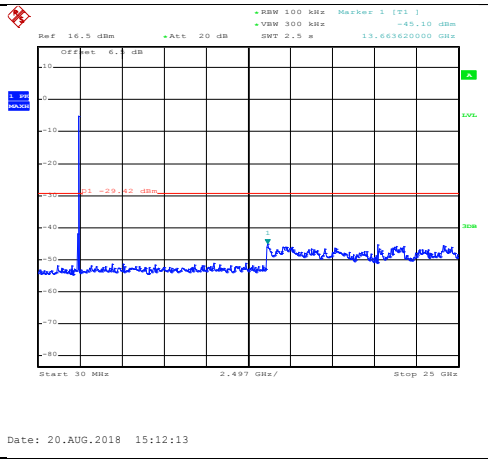
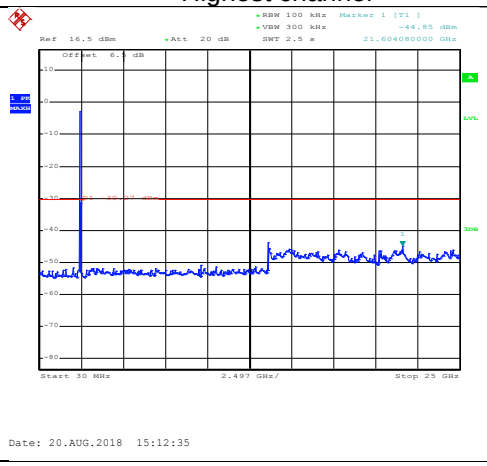
## 6.7 Spurious Emission

### 6.7.1 Conducted Emission Method

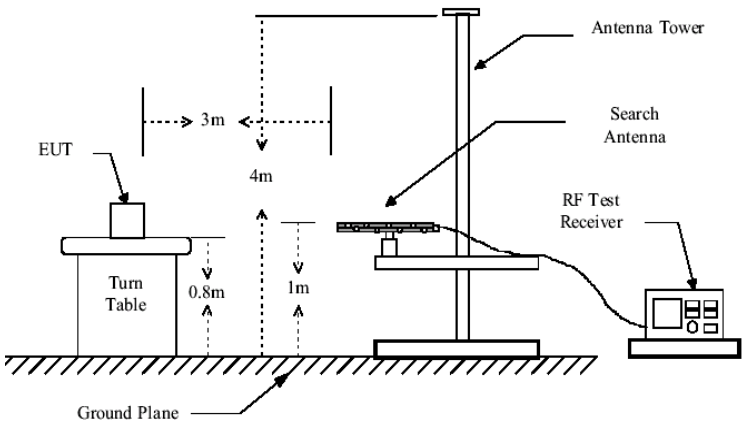
| | |
|---|---|
| Test Requirement: | FCC Part 15 C Section 15.247 (d) |
| Test Method: | ANSI C63.10:2013 and KDB 558074 |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. |
| Test setup: |  |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

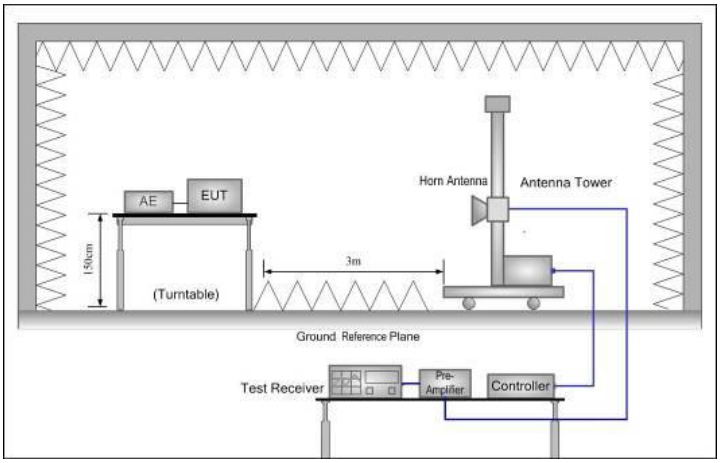
**Test plot as follows:**

| Test mode: 802.11b | Test mode: 802.11g |
|---|---|
| Lowest channel | Lowest channel |
|  |  |
| 30MHz~25GHz | 30MHz~25GHz |
| | |
| Middle channel | Middle channel |
|  |  |
| 30MHz~25GHz | 30MHz~25GHz |
| | |
| Highest channel | Highest channel |
|  |  |
| 30MHz~25GHz | 30MHz~25GHz |

| Test mode: 802.11n(H20) | Test mode: 802.11n(H40) |
|---|---|
| Lowest channel | Middle channel |
|  |  |
| 30MHz~25GHz | 30MHz~25GHz |
| Highest channel | |
|  | |
| 30MHz~25GHz | |

### 6.7.2 Radiated Emission Method

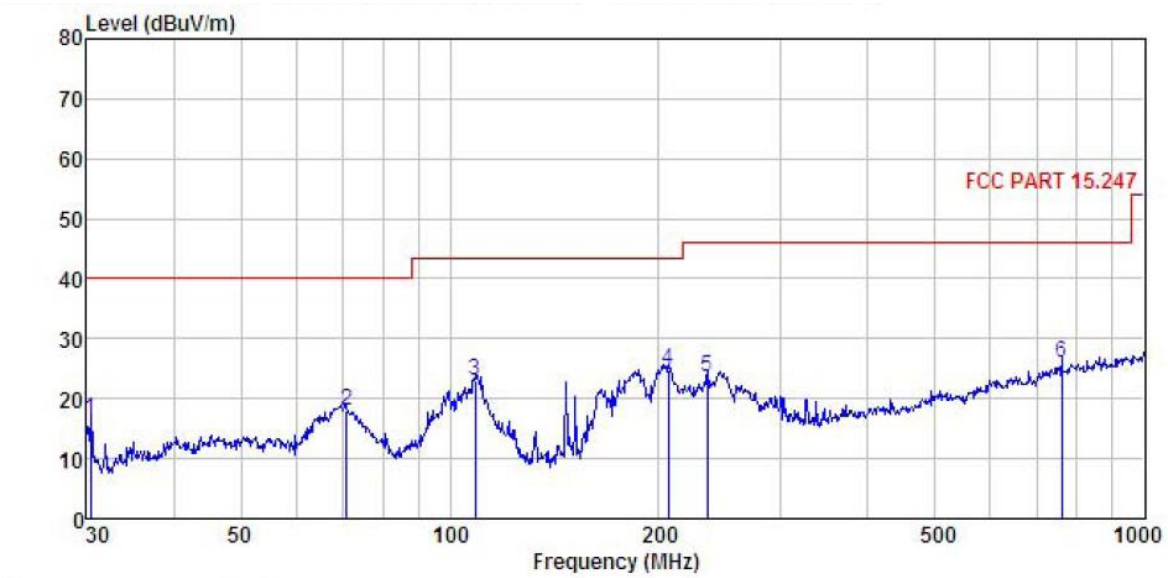
<table>
<tr><td>Test Requirement:</td><td colspan="5">FCC Part 15 C Section 15.209 and 15.205</td></tr>
<tr><td>Test Method:</td><td colspan="5">ANSI C63.10:2013</td></tr>
<tr><td>Test Frequency Range:</td><td colspan="5">9kHz to 25GHz</td></tr>
<tr><td>Test Distance:</td><td colspan="5">3m</td></tr>
<tr><td>Receiver setup:</td><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr>
<tr><td></td><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td></td><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td></td><td>RMS</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
<tr><td>Limit:</td><td colspan="2">Frequency</td><td colspan="2">Limit (dBuV/m @3m)</td><td>Remark</td></tr>
<tr><td></td><td colspan="2">30MHz-88MHz</td><td colspan="2">40.0</td><td>Quasi-peak Value</td></tr>
<tr><td></td><td colspan="2">88MHz-216MHz</td><td colspan="2">43.5</td><td>Quasi-peak Value</td></tr>
<tr><td></td><td colspan="2">216MHz-960MHz</td><td colspan="2">46.0</td><td>Quasi-peak Value</td></tr>
<tr><td></td><td colspan="2">960MHz-1GHz</td><td colspan="2">54.0</td><td>Quasi-peak Value</td></tr>
<tr><td></td><td colspan="2" rowspan="2">Above 1GHz</td><td colspan="2">54.0</td><td>Average Value</td></tr>
<tr><td></td><td colspan="2">74.0</td><td>Peak Value</td></tr>
<tr><td>Test Procedure:</td><td colspan="5">1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.<br>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.<br>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.<br>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.<br>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.<br>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</td></tr>
<tr><td>Test setup:</td><td colspan="5">Below 1GHz<br> 
</td></tr>
</table>

| | |
|---|---|
| | Above 1GHz<br>  <br> |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |
| Remark: | 1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.<br>2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report. |

**Measurement Data (worst case):**

**Below 1GHz:**

Test Polarization: Horizontal



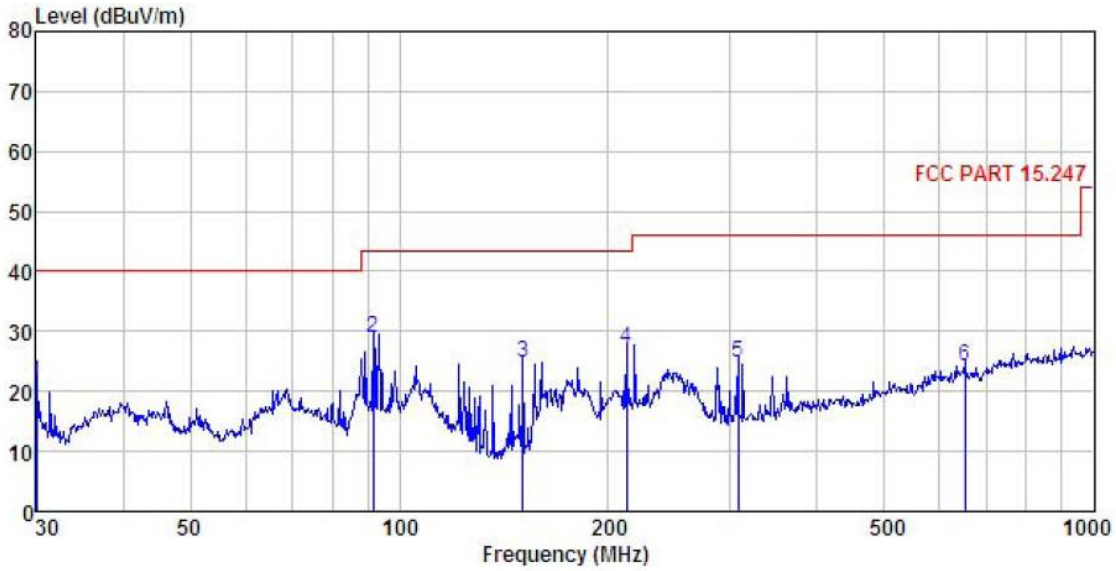

Site : 3m chamber
Condition : FCC PART 15.247 3m VULB9163(30M2G) HORIZONTAL
EUT : Jaguar PRO LTE
Model : PL570
Test mode : WiFi mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5℃ Huni:55% 101KPa
Test Engineer: YT
REMARK :

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 30.424 | 34.94 | 10.70 | 0.78 | 29.98 | 16.44 | 40.00 | -23.56 | QP |
| 2 | 71.080 | 37.08 | 8.99 | 1.54 | 29.71 | 17.90 | 40.00 | -22.10 | QP |
| 3 | 108.647 | 38.28 | 12.22 | 2.03 | 29.47 | 23.06 | 43.50 | -20.44 | QP |
| 4 | 206.398 | 39.01 | 11.75 | 2.86 | 28.79 | 24.83 | 43.50 | -18.67 | QP |
| 5 | 234.991 | 36.75 | 12.80 | 2.83 | 28.62 | 23.76 | 46.00 | -22.24 | QP |
| 6 | 760.704 | 28.91 | 21.00 | 4.36 | 28.42 | 25.85 | 46.00 | -20.15 | QP |

*Remark:*

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Test Polarization: Vertical




Site : 3m chamber
Condition : FCC PART 15.247 3m VULB9163(30M2G) VERTICAL
EUT : Jaguar PRO LTE
Model : PL570
Test mode : WiFi mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5'C Huni:55% 101KPa
Test Engineer: YT
REMARK :

| | Freq | ReadAntenna Level | Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 30.000 | 40.34 | 10.60 | 0.72 | 29.98 | 21.68 | 40.00 | -18.32 | QP |
| 2 | 91.816 | 46.22 | 10.32 | 2.03 | 29.56 | 29.01 | 43.50 | -14.49 | QP |
| 3 | 150.538 | 42.91 | 8.63 | 2.52 | 29.22 | 24.84 | 43.50 | -18.66 | QP |
| 4 | 212.270 | 41.09 | 11.98 | 2.86 | 28.75 | 27.18 | 43.50 | -16.32 | QP |
| 5 | 307.831 | 36.62 | 13.77 | 2.97 | 28.47 | 24.89 | 46.00 | -21.11 | QP |
| 6 | 651.942 | 29.19 | 19.80 | 3.87 | 28.77 | 24.09 | 46.00 | -21.91 | QP |

*Remark:*

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

**Above 1GHz**

| 802.11b | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Test channel: Lowest channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4824.00 | 48.20 | 30.94 | 6.81 | 41.82 | 44.13 | 74.00 | -29.87 | Vertical |
| 4824.00 | 50.87 | 30.94 | 6.81 | 41.82 | 46.80 | 74.00 | -27.20 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4824.00 | 39.85 | 30.94 | 6.81 | 41.82 | 35.78 | 54.00 | -18.22 | Vertical |
| 4824.00 | 41.27 | 30.94 | 6.81 | 41.82 | 37.20 | 54.00 | -16.80 | Horizontal |
| | | | | | | | | |
| Test channel: Middle channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4874.00 | 50.36 | 31.20 | 6.85 | 41.84 | 46.57 | 74.00 | -27.43 | Vertical |
| 4874.00 | 50.22 | 31.20 | 6.85 | 41.84 | 46.43 | 74.00 | -27.57 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4874.00 | 39.60 | 31.20 | 6.85 | 41.84 | 35.81 | 54.00 | -18.19 | Vertical |
| 4874.00 | 40.77 | 31.20 | 6.85 | 41.84 | 36.98 | 54.00 | -17.02 | Horizontal |
| | | | | | | | | |
| Test channel: Highest channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4924.00 | 51.24 | 31.46 | 6.89 | 41.86 | 47.73 | 74.00 | -26.27 | Vertical |
| 4924.00 | 50.79 | 31.46 | 6.89 | 41.86 | 47.28 | 74.00 | -26.72 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4924.00 | 40.36 | 31.46 | 6.89 | 41.86 | 36.85 | 54.00 | -17.15 | Vertical |
| 4924.00 | 39.79 | 31.46 | 6.89 | 41.86 | 36.28 | 54.00 | -17.72 | Horizontal |

*Remark:*

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

| 802.11g | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Test channel: Lowest channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4824.00 | 49.60 | 30.94 | 6.81 | 41.82 | 45.53 | 74.00 | -28.47 | Vertical |
| 4824.00 | 50.75 | 30.94 | 6.81 | 41.82 | 46.68 | 74.00 | -27.32 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4824.00 | 39.60 | 30.94 | 6.81 | 41.82 | 35.53 | 54.00 | -18.47 | Vertical |
| 4824.00 | 40.45 | 30.94 | 6.81 | 41.82 | 36.38 | 54.00 | -17.62 | Horizontal |
| | | | | | | | | |
| Test channel: Middle channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4874.00 | 49.25 | 31.20 | 6.85 | 41.84 | 45.46 | 74.00 | -28.54 | Vertical |
| 4874.00 | 48.87 | 31.20 | 6.85 | 41.84 | 45.08 | 74.00 | -28.92 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4874.00 | 39.21 | 31.20 | 6.85 | 41.84 | 35.42 | 54.00 | -18.58 | Vertical |
| 4874.00 | 38.44 | 31.20 | 6.85 | 41.84 | 34.65 | 54.00 | -19.35 | Horizontal |
| | | | | | | | | |
| Test channel: Highest channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4924.00 | 49.62 | 31.46 | 6.89 | 41.86 | 46.11 | 74.00 | -27.89 | Vertical |
| 4924.00 | 50.78 | 31.46 | 6.89 | 41.86 | 47.27 | 74.00 | -26.73 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4924.00 | 39.52 | 31.46 | 6.89 | 41.86 | 36.01 | 54.00 | -17.99 | Vertical |
| 4924.00 | 38.49 | 31.46 | 6.89 | 41.86 | 34.98 | 54.00 | -19.02 | Horizontal |

*Remark:*

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

| 802.11n(HT20) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Test channel: Lowest channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4824.00 | 50.82 | 36.06 | 6.81 | 41.82 | 51.87 | 74.00 | -22.13 | Vertical |
| 4824.00 | 49.93 | 36.06 | 6.81 | 41.82 | 50.98 | 74.00 | -23.02 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4824.00 | 39.62 | 36.06 | 6.81 | 41.82 | 40.67 | 54.00 | -13.33 | Vertical |
| 4824.00 | 38.51 | 36.06 | 6.81 | 41.82 | 39.56 | 54.00 | -14.44 | Horizontal |
| | | | | | | | | |
| Test channel: Middle channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4874.00 | 49.67 | 36.32 | 6.85 | 41.84 | 51.00 | 74.00 | -23.00 | Vertical |
| 4874.00 | 48.75 | 36.32 | 6.85 | 41.84 | 50.08 | 74.00 | -23.92 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4874.00 | 39.62 | 36.32 | 6.85 | 41.84 | 40.95 | 54.00 | -13.05 | Vertical |
| 4874.00 | 38.42 | 36.32 | 6.85 | 41.84 | 39.75 | 54.00 | -14.25 | Horizontal |
| | | | | | | | | |
| Test channel: Highest channel | | | | | | | | |
| Detector: Peak Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4924.00 | 50.24 | 36.58 | 6.89 | 41.86 | 51.85 | 74.00 | -22.15 | Vertical |
| 4924.00 | 49.19 | 36.58 | 6.89 | 41.86 | 50.80 | 74.00 | -23.20 | Horizontal |
| Detector: Average Value | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4924.00 | 39.60 | 36.58 | 6.89 | 41.86 | 41.21 | 54.00 | -12.79 | Vertical |
| 4924.00 | 38.01 | 36.58 | 6.89 | 41.86 | 39.62 | 54.00 | -14.38 | Horizontal |

*Remark:*

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*