



# FCC RADIO TEST REPORT

FCC ID : PY7-47198F  
Equipment : GSM/WCDMA/LTE Phone with BT, DTS/UNII  
a/b/g/n/ac, GPS, FM Receiver and NFC  
Brand Name : SONY  
Applicant : Sony Corporation  
1-7-1 Konan Minato-ku Tokyo, 108-0076 Japan  
Manufacturer : Sony Corporation  
1-7-1 Konan Minato-ku Tokyo, 108-0076 Japan  
Standard : FCC Part 15 Subpart C §15.247  
Test Date(s) : Nov. 24, 2021

We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager



**Sporton International (Kunshan) Inc.**

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## History of this test report

| Report No. | Version | Description             | Issued Date   |
|------------|---------|-------------------------|---------------|
| FR1O1907A  | 01      | Initial issue of report | Dec. 28, 2021 |
|            |         |                         |               |
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|            |         |                         |               |

## Summary of Test Result

| Report Clause | Ref Std. Clause    | Test Items   | Result (PASS/FAIL) | Remark                                     |
|---------------|--------------------|--|--------------------|--|
| -             | 15.247(a)(1)       | Number of Channels                                 | -                  | See Note                                   |
| -             | 15.247(a)(1)       | Hopping Channel Separation                         | -                  | See Note                                   |
| -             | 15.247(a)(1)       | Dwell Time of Each Channel                         | -                  | See Note                                   |
| -             | 15.247(a)(1)       | 20dB Bandwidth                                     | -                  | See Note                                   |
| -             | 2.1049             | 99% Occupied Bandwidth                             | -                  | See Note                                   |
| 4.1           | 15.247(b)(1)       | Peak Output Power                                  | Pass               | -  |
| -             | 15.247(d)          | Conducted Band Edges                               | -                  | See Note                                   |
| -             | 15.247(d)          | Conducted Spurious Emission                        | -                  | See Note                                   |
| 4.2           | 15.247(d)          | Radiated Band Edges and Radiated Spurious Emission | Pass               | Under limit<br>20.65 dB at<br>2483.620 MHz |
| -             | 15.207             | AC Conducted Emission                              | -                  | See Note                                   |
| 4.3           | 15.203 & 15.247(b) | Antenna Requirement                                | Pass               | -  |

**Note:** Refer to information of Section 3 Spot Check Evaluation.

### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

### Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, NFC, FM Receiver and GNSS.

| Standards-related Product Specification |                                 |
|---|---------------------------------|
| Antenna Type / Gain                     | PIFA Antenna with gain -1.5 dBi |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

## 1.2 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.3 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

|                    |  |                     |                                |
|--------------------|--|---------------------|--------------------------------|
| Test Firm          | Sporton International (Kunshan) Inc.   |                     |                                |
| Test Site Location | No. 1098, Pengxi North Road, Kunshan Economic Development Zone<br>Jiangsu Province 215300 People's Republic of China<br>TEL : +86-512-57900158<br>FAX : +86-512-57900958 |                     |                                |
| Test Site No.      | Sporton Site No.   | FCC Designation No. | FCC Test Firm Registration No. |
|                    | 03CH05-KS<br>TH01-KS   | CN1257              | 314309                         |

## 1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ ANSI C63.10-2013

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Z plane as worst plane, and the worst mode of radiated spurious emissions is Bluetooth 1Mbps mode, and recorded in this report.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

| Radiated<br>Test Cases | Bluetooth BR 1Mbps GFSK         |
|------------------------|---------------------------------|
|                        | Mode 1: CH78_2480 MHz for 1Mbps |

### 2.2 Connection Diagram of Test System



### 2.3 EUT Operation Test Setup

The RF test items, utility "FTM" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



### 3 Spot Check Evaluation

#### 3.1 Introduction Section

Sony Corporation, hereby declares that the WLAN and Bluetooth hardware of PY7-47198F (this model) are HW identical to PY7-15465A (lead). In addition, PY7-47198F (this model) digital circuit is identical to PY7-15465A (lead). Therefore the following report of PY7-15465A (lead) may be used as reference test data for PY7-47198F (this model), along with the spot check verification data following the FCC KDB 484596 D01 v01, and takes full responsibility that the test data as referenced in this report represent compliance for the new FCC ID PY7-47198F.

#### 3.2 Difference Section

Difference between PY7-15465A (lead) and PY7-47198F (this model):

Sony Corporation, hereby declares the differences between PY7-15465A (lead) and PY7-47198F (this model) are related only to the cellular part. Therefore the WLAN and Bluetooth report/data of PY7-15465A (lead) may represent for PY7-47198F (this model).

#### 3.3 Spot Check Verification Data Section

Conducted power test and radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing and the verification test results similar to the original FCC ID. All tests meet FCC technical limits. Detail spot check test result can be found in the variant model report, please refer to the detail section table in section 3.4.

Summary of the spot check:

| Test Item                                | Mode      | PY7-15465A Worst Result | PY7-47198F Worst Result | Difference (dB) |
|--|-----------|-------------------------|-------------------------|-----------------|
| Average Conducted Power (dBm)            | BT BR/EDR | 8.94                    | 8.42                    | 0.52            |
| Radiated Spurious Emission (dBuV/m) @ 3m | BT BR/EDR | 53.68                   | 53.35                   | 0.33            |

#### 3.4 Reference detail Section

| Rule Part | Equipment Class | Wireless Technology | Frequency Band (MHz) | Original FCC ID | Original Report      | Variant Model FCC ID | Variant Model Report |
|-----------|-----------------|---------------------|----------------------|-----------------|----------------------|----------------------|----------------------|
| 15C       | DSS             | Bluetooth BR/EDR    | 2400~2483.5          | PY7-15465A      | Part 15C (FR1O1906A) | PY7-47198F           | Part 15C (FR1O1907A) |

## 4 Test Result

### 4.1 Output Power Measurement

#### 4.1.1 Limit of Output Power

The maximum peak conducted output power of the intentional radiator shall not exceed the following:  
For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

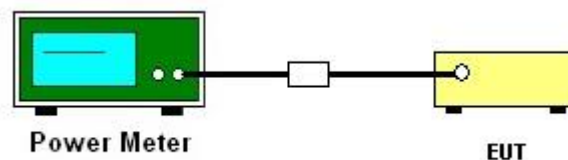
#### 4.1.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 4.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.5.
1. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
2. Set the maximum power setting and enable the EUT to transmit continuously.
3. Measure the conducted output power with cable loss and record the results in the test report.
4. Measure and record the results in the test report.

#### 4.1.4 Test Setup



#### 4.1.5 Test Result of Peak Output Power

Please refer to Appendix A.

## 4.2 Radiated Band Edges and Spurious Emission Measurement

### 4.2.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics / spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------|--------------------------------------|----------------------------------|
| 0.009 – 0.490      | 2400/F(kHz)                          | 300                              |
| 0.490 – 1.705      | 24000/F(kHz)                         | 30                               |
| 1.705 – 30.0       | 30                                   | 30                               |
| 30 – 88            | 100                                  | 3                                |
| 88 – 216           | 150                                  | 3                                |
| 216 - 960          | 200                                  | 3                                |
| Above 960          | 500                                  | 3                                |

### 4.2.2 Measuring Instruments

See list of measuring equipment of this test report.



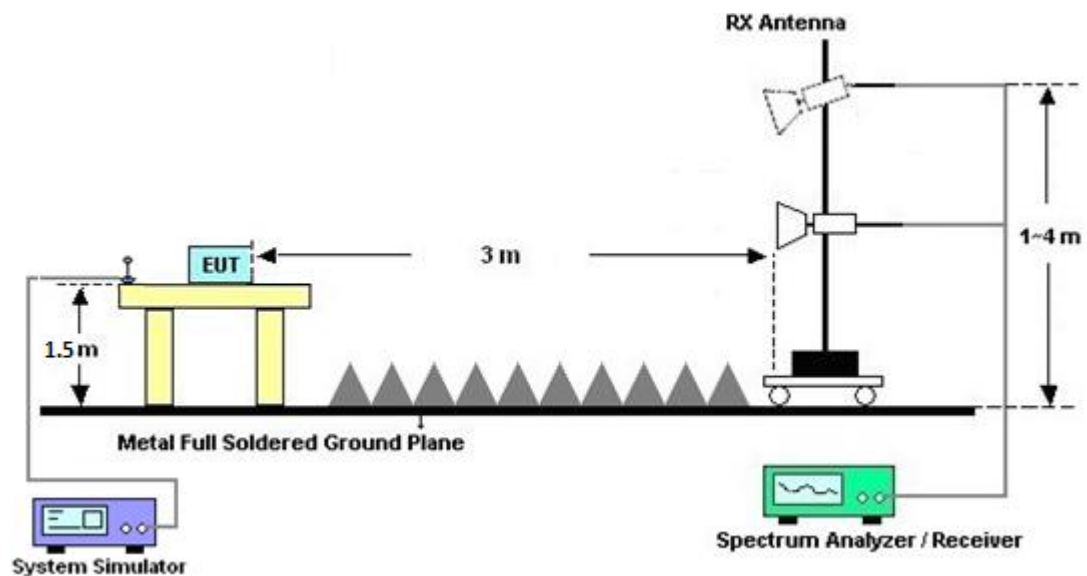
### 4.2.3 Test Procedures

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW = 100 kHz for  $f < 1$  GHz, RBW = 1 MHz for  $f > 1$  GHz ; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
  - (3) For average measurement: use duty cycle correction factor method per 15.35(c).  
Duty cycle = On time/100 milliseconds  
$$\text{On time} = N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$$
  
Where  $N_1$  is number of type 1 pulses,  $L_1$  is length of type 1 pulses, etc.  
Average Emission Level = Peak Emission Level +  $20 * \log(\text{Duty cycle})$
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
7. For testing below 1 GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
8. For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.79dB) derived from  $20 \log(\text{dwell time}/100\text{ms})$ . This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

## 4.2.4 Test Setup

For radiated test from 1GHz to 18GHz



## 4.2.5 Test Result of Radiated Spurious Emissions

Please refer to Appendix B and C.

## 4.2.6 Duty Cycle

Please refer to Appendix D.



## **4.3 Antenna Requirements**

### **4.3.1 Standard Applicable**

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

### **4.3.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **4.3.3 Antenna Gain**

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



## 5 List of Measuring Equipment

| Instrument                | Manufacturer | Model No.              | Serial No. | Characteristics      | Calibration Date | Test Date     | Due Date      | Remark                |
|---------------------------|--------------|------------------------|------------|----------------------|------------------|---------------|---------------|-----------------------|
| Pulse Power Sensor        | Anritsu      | MA2411B                | 0917070    | 300MHz~40GHz         | Jan. 07, 2021    | Nov. 24, 2021 | Jan. 06, 2022 | Conducted (TH01-KS)   |
| Power Meter               | Anritsu      | ML2495A                | 1005002    | 50MHz Bandwidth      | Jan. 07, 2021    | Nov. 24, 2021 | Jan. 06, 2022 | Conducted (TH01-KS)   |
| EMI Test Receiver         | Keysight     | N9038A                 | MY56400004 | 3Hz~8.5GHz;Max 30dBm | Oct. 16, 2021    | Nov. 24, 2021 | Oct. 15, 2022 | Radiation (03CH05-KS) |
| EXA Spectrum Analyzer     | Keysight     | N9010A                 | MY55150244 | 10Hz~44G,MAX 30dB    | Apr. 13, 2021    | Nov. 24, 2021 | Apr. 12, 2022 | Radiation (03CH05-KS) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117                   | 00218652   | 1GHz~18GHz           | Apr. 24, 2021    | Nov. 24, 2021 | Apr. 23, 2022 | Radiation (03CH05-KS) |
| high gain Amplifier       | MITEQ        | AMF-7D-00101800-30-10P | 2012228    | 1Ghz-18Ghz           | Oct. 16, 2021    | Nov. 24, 2021 | Oct. 15, 2022 | Radiation (03CH05-KS) |
| AC Power Source           | Chroma       | 61601                  | F104090004 | N/A                  | NCR              | Nov. 24, 2021 | NCR           | Radiation (03CH05-KS) |
| Turn Table                | ChamPro      | EM 1000-T              | 060762-T   | 0~360 degree         | NCR              | Nov. 24, 2021 | NCR           | Radiation (03CH05-KS) |
| Antenna Mast              | ChamPro      | EM 1000-A              | 060762-A   | 1 m~4 m              | NCR              | Nov. 24, 2021 | NCR           | Radiation (03CH05-KS) |

NCR: No Calibration Required



## 6 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

|  |       |
|--|-------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 5.0dB |
|--|-------|



## Appendix A. Conducted Test Results

|                |            |                    |       |    |
|----------------|------------|--------------------|-------|----|
| Test Engineer: | Smile Wang | Temperature:       | 20~26 | °C |
| Test Date:     | 2021/11/24 | Relative Humidity: | 40~51 | %  |

| DH   | CH. | NTX | Peak Power (dBm) | Power Limit (dBm) | Test Result |
|------|-----|-----|------------------|-------------------|-------------|
| DH1  | 0   | 1   | 8.42             | 20.97             | Pass        |
|      | 39  | 1   | 8.27             | 20.97             | Pass        |
|      | 78  | 1   | 8.36             | 20.97             | Pass        |
| 2DH  | CH. | NTX | Peak Power (dBm) | Power Limit (dBm) | Test Result |
| 2DH1 | 0   | 1   | 7.68             | 20.97             | Pass        |
|      | 39  | 1   | 7.60             | 20.97             | Pass        |
|      | 78  | 1   | 7.52             | 20.97             | Pass        |
| 3DH  | CH. | NTX | Peak Power (dBm) | Power Limit (dBm) | Test Result |
| 3DH1 | 0   | 1   | 8.01             | 20.97             | Pass        |
|      | 39  | 1   | 8.09             | 20.97             | Pass        |
|      | 78  | 1   | 7.80             | 20.97             | Pass        |



## Appendix B. Radiated Spurious Emission

|                 |          |                     |         |
|-----------------|----------|---------------------|---------|
| Test Engineer : | Henry Li | Temperature :       | 27~30°C |
|                 |          | Relative Humidity : | 41~42%  |

### 2.4GHz 2400~2483.5MHz

#### BT (Band Edge @ 3m)

| BT                     | Note | Frequency   | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|------------------------|------|---|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
|                        |      |   |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
|                        |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| BT<br>CH 78<br>2480MHz |      | 2483.68   | 52.94      | -21.06 | 74         | 48.48    | 30.86    | 7.86   | 34.26  | 119    | 217     | P       | H       |
|                        |      | 2483.68   | 28.15      | -25.85 | 54         | -        | -        | -      | -      | -      | -       | A       | H       |
|                        |      | 2480  | 97.77      | -      | -          | 93.31    | 30.86    | 7.86   | 34.26  | 119    | 217     | P       | H       |
|                        |      | 2480  | 72.98      | -      | -          | -        | -        | -      | -      | -      | -       | A       | H       |
|                        |      | 2483.62   | 53.35      | -20.65 | 74         | 48.89    | 30.86    | 7.86   | 34.26  | 346    | 59      | P       | V       |
|                        |      | 2483.62   | 28.56      | -25.44 | 54         | -        | -        | -      | -      | -      | -       | A       | V       |
|                        |      | 2480  | 101.46     | -      | -          | 97       | 30.86    | 7.86   | 34.26  | 346    | 59      | P       | V       |
|                        |      | 2480  | 76.67      | -      | -          | -        | -        | -      | -      | -      | -       | A       | V       |
| Remark                 |      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |            |        |            |          |          |        |        |        |         |         |         |

### 2.4GHz 2400~2483.5MHz

#### BT (Harmonic @ 3m)

| BT                     | Note | Frequency   | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|------------------------|------|---|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
|                        |      |   |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
|                        |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| BT<br>CH 78<br>2480MHz |      | 4962  | 42.15      | -31.85 | 74         | 55.95    | 34.82    | 11.39  | 60.01  | 300    | 0       | P       | H       |
|                        |      | 7440  | 43.95      | -30.05 | 74         | 54.02    | 36.62    | 13.85  | 60.54  | 300    | 0       | P       | H       |
|                        |      | 4962  | 41.83      | -32.17 | 74         | 55.63    | 34.82    | 11.39  | 60.01  | 100    | 360     | P       | V       |
|                        |      | 7440  | 44.63      | -29.37 | 74         | 54.7     | 36.62    | 13.85  | 60.54  | 100    | 360     | P       | V       |
| Remark                 |      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |            |        |            |          |          |        |        |        |         |         |         |

**Note symbol**

|     |  |
|-----|--|
| *   | <b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| !   | Test result is <b>over limit</b> line.   |
| P/A | <b>P</b> eak or <b>A</b> verage  |
| H/V | <b>H</b> orizontal or <b>V</b> ertical   |



A calculation example for radiated spurious emission is shown as below:

| BT                     | Note | Frequency | Level      | Over   | Limit      | Read     | Antenna  | Path   | Preamp | Ant    | Table   | Peak    | Pol.    |
|------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
|                        |      |           |            | Limit  | Line       | Level    | Factor   | Loss   | Factor | Pos    | Pos     | Avg.    |         |
|                        |      | ( MHz )   | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | ( P/A ) | ( H/V ) |
| BT<br>CH 00<br>2402MHz |      | 2390      | 55.45      | -18.55 | 74         | 54.51    | 32.22    | 4.58   | 35.86  | 103    | 308     | P       | H       |
|                        |      | 2390      | 43.54      | -10.46 | 54         | 42.6     | 32.22    | 4.58   | 35.86  | 103    | 308     | A       | H       |

$$1. \text{ Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)}$$

$$2. \text{ Level(dB}\mu\text{V/m) =}$$

$$\text{Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB}\mu\text{V) - Preamp Factor(dB)}$$

$$3. \text{ Over Limit(dB) = Level(dB}\mu\text{V/m) - Limit Line(dB}\mu\text{V/m)}$$

#### For Peak Limit @ 2390MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB}\mu\text{V) - Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 54.51(\text{dB}\mu\text{V}) - 35.86(\text{dB})$$

$$= 55.45(\text{dB}\mu\text{V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB}\mu\text{V/m) - Limit Line(dB}\mu\text{V/m)}$$

$$= 55.45(\text{dB}\mu\text{V/m}) - 74(\text{dB}\mu\text{V/m})$$

$$= -18.55(\text{dB})$$

#### For Average Limit @ 2390MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB}\mu\text{V) - Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 42.6(\text{dB}\mu\text{V}) - 35.86(\text{dB})$$

$$= 43.54(\text{dB}\mu\text{V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB}\mu\text{V/m) - Limit Line(dB}\mu\text{V/m)}$$

$$= 43.54(\text{dB}\mu\text{V/m}) - 54(\text{dB}\mu\text{V/m})$$

$$= -10.46(\text{dB})$$

Both peak and average measured complies with the limit line, so test result is "PASS".



## **Appendix C. Radiated Spurious Emission Plots**

Note symbol

|    |                       |
|----|-----------------------|
| -L | Low channel location  |
| -R | High channel location |



## 2.4GHz 2400~2483.5MHz

## BT (Band Edge @ 3m)

| BT   | 2.4GHz 2400~2483.5MHz Band Edge @ 3m  |             |        |             |             |             |        |        |        |                     |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |       |       |       |       |      |       |     |                     |
|------|---|-------------|--------|-------------|-------------|-------------|--------|--------|--------|---------------------|----------|----------|-----|--------|----|--------|------|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|---------------------|--|------|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|-----|--------|----|--------|------|----|----|----|-----|--|--|---|---------|-------|-------|-------|-------|-------|------|-------|-----|---------------------|
| ANT  | BT CH78 2480MHz   |             |        |             |             |             |        |        |        |                     |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |       |       |       |       |      |       |     |                     |
| 1    | Horizontal  | Fundamental |        |             |             |             |        |        |        |                     |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |       |       |       |       |      |       |     |                     |
| Peak | <div><p>Site : OX3005-KS<br/>Condition : FCC PART 15C 3m 0117 00218052 HORIZONTAL<br/>RF 1000, 0000Hz TWP 1000, 0000Hz SPT Auto</p><p>Plane : Z</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>ca</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2483.68</td><td>52.94</td><td>-21.06</td><td>74.00</td><td>48.48</td><td>30.06</td><td>7.86</td><td>34.26</td><td>119</td><td>217 Peak HORIZONTAL</td></tr></table></div> | Freq        | Level  | Over        | Limit       | ReadAntenna | Cable  | Preamp | A/Pos  | T/Pos               | Remark   | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | ca | deg |  |  | 1 | 2483.68 | 52.94 | -21.06 | 74.00 | 48.48 | 30.06 | 7.86 | 34.26 | 119 | 217 Peak HORIZONTAL | <div><p>Site : OX3005-KS<br/>Condition : FCC PART 15C 3m 0117 00218052 HORIZONTAL<br/>RF 1000, 0000Hz TWP 1000, 0000Hz SPT Auto</p><p>Plane : Z</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>ca</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2480.00</td><td>97.77</td><td>23.77</td><td>74.00</td><td>93.31</td><td>30.06</td><td>7.86</td><td>34.26</td><td>119</td><td>217 Peak HORIZONTAL</td></tr></table></div> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | ca | deg |  |  | 1 | 2480.00 | 97.77 | 23.77 | 74.00 | 93.31 | 30.06 | 7.86 | 34.26 | 119 | 217 Peak HORIZONTAL |
|      | Freq  | Level       | Over   | Limit       | ReadAntenna | Cable       | Preamp | A/Pos  | T/Pos  | Remark              | Pol/Phas |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |       |       |       |       |      |       |     |                     |
| MHz  | dBuV/m  | dB          | dBuV/m | dBuV        | dB          | dB          | ca     | deg    |        |                     |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |       |       |       |       |      |       |     |                     |
| 1    | 2483.68   | 52.94       | -21.06 | 74.00       | 48.48       | 30.06       | 7.86   | 34.26  | 119    | 217 Peak HORIZONTAL |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |       |       |       |       |      |       |     |                     |
| Freq | Level   | Over        | Limit  | ReadAntenna | Cable       | Preamp      | A/Pos  | T/Pos  | Remark | Pol/Phas            |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |       |       |       |       |      |       |     |                     |
| MHz  | dBuV/m  | dB          | dBuV/m | dBuV        | dB          | dB          | ca     | deg    |        |                     |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |       |       |       |       |      |       |     |                     |
| 1    | 2480.00   | 97.77       | 23.77  | 74.00       | 93.31       | 30.06       | 7.86   | 34.26  | 119    | 217 Peak HORIZONTAL |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |     |                     |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |       |       |       |       |      |       |     |                     |

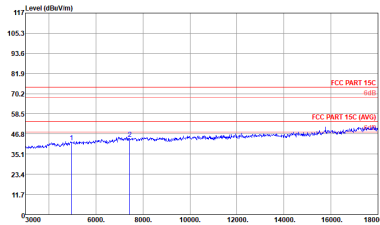
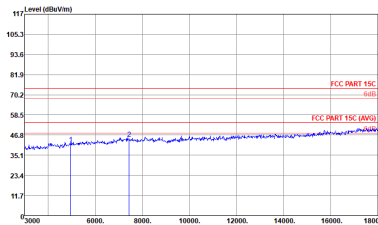


| BT   | 2.4GHz 2400~2483.5MHz Band Edge @ 3m   |             |        |             |             |             |        |        |         |          |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |         |          |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |        |       |       |       |       |      |       |         |          |
|------|--|-------------|--------|-------------|-------------|-------------|--------|--------|---------|----------|----------|----------|-----|--------|----|--------|------|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|------|-------|---------|----------|--|------|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|-----|--------|----|--------|------|----|----|----|-----|--|--|---|---------|--------|-------|-------|-------|-------|------|-------|---------|----------|
| ANT  | BT CH78 2480MHz  |             |        |             |             |             |        |        |         |          |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |         |          |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |        |       |       |       |       |      |       |         |          |
| 1    | Vertical   | Fundamental |        |             |             |             |        |        |         |          |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |         |          |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |        |       |       |       |       |      |       |         |          |
| Peak | <div><p>Site : 03CB05-ES<br/>Condition : FCC PART 15C 3m 0117 00218082 VERTICAL<br/>REF 1000.000000 YOFF 1000.000000 SWT Auto</p><p>Plane : Z</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2483.62</td><td>53.35</td><td>-20.65</td><td>74.00</td><td>48.89</td><td>30.06</td><td>7.86</td><td>34.26</td><td>59 Peak</td><td>VERTICAL</td></tr></table></div> | Freq        | Level  | Over        | Limit       | ReadAntenna | Cable  | Preamp | A/Pos   | T/Pos    | Remark   | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | cm | deg |  |  | 1 | 2483.62 | 53.35 | -20.65 | 74.00 | 48.89 | 30.06 | 7.86 | 34.26 | 59 Peak | VERTICAL | <div><p>Site : 03CB05-ES<br/>Condition : FCC PART 15C 3m 0117 00218082 VERTICAL<br/>REF 1000.000000 YOFF 1000.000000 SWT Auto</p><p>Plane : Z</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2480.00</td><td>101.46</td><td>27.46</td><td>74.00</td><td>97.00</td><td>30.06</td><td>7.86</td><td>34.26</td><td>59 Peak</td><td>VERTICAL</td></tr></table></div> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | cm | deg |  |  | 1 | 2480.00 | 101.46 | 27.46 | 74.00 | 97.00 | 30.06 | 7.86 | 34.26 | 59 Peak | VERTICAL |
|      | Freq   | Level       | Over   | Limit       | ReadAntenna | Cable       | Preamp | A/Pos  | T/Pos   | Remark   | Pol/Phas |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |         |          |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |        |       |       |       |       |      |       |         |          |
| MHz  | dBuV/m   | dB          | dBuV/m | dBuV        | dB          | dB          | cm     | deg    |         |          |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |         |          |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |        |       |       |       |       |      |       |         |          |
| 1    | 2483.62  | 53.35       | -20.65 | 74.00       | 48.89       | 30.06       | 7.86   | 34.26  | 59 Peak | VERTICAL |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |         |          |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |        |       |       |       |       |      |       |         |          |
| Freq | Level  | Over        | Limit  | ReadAntenna | Cable       | Preamp      | A/Pos  | T/Pos  | Remark  | Pol/Phas |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |         |          |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |        |       |       |       |       |      |       |         |          |
| MHz  | dBuV/m   | dB          | dBuV/m | dBuV        | dB          | dB          | cm     | deg    |         |          |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |         |          |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |        |       |       |       |       |      |       |         |          |
| 1    | 2480.00  | 101.46      | 27.46  | 74.00       | 97.00       | 30.06       | 7.86   | 34.26  | 59 Peak | VERTICAL |          |          |     |        |    |        |      |    |    |    |     |  |  |   |         |       |        |       |       |       |      |       |         |          |  |      |       |      |       |             |       |        |       |       |        |          |     |        |    |        |      |    |    |    |     |  |  |   |         |        |       |       |       |       |      |       |         |          |



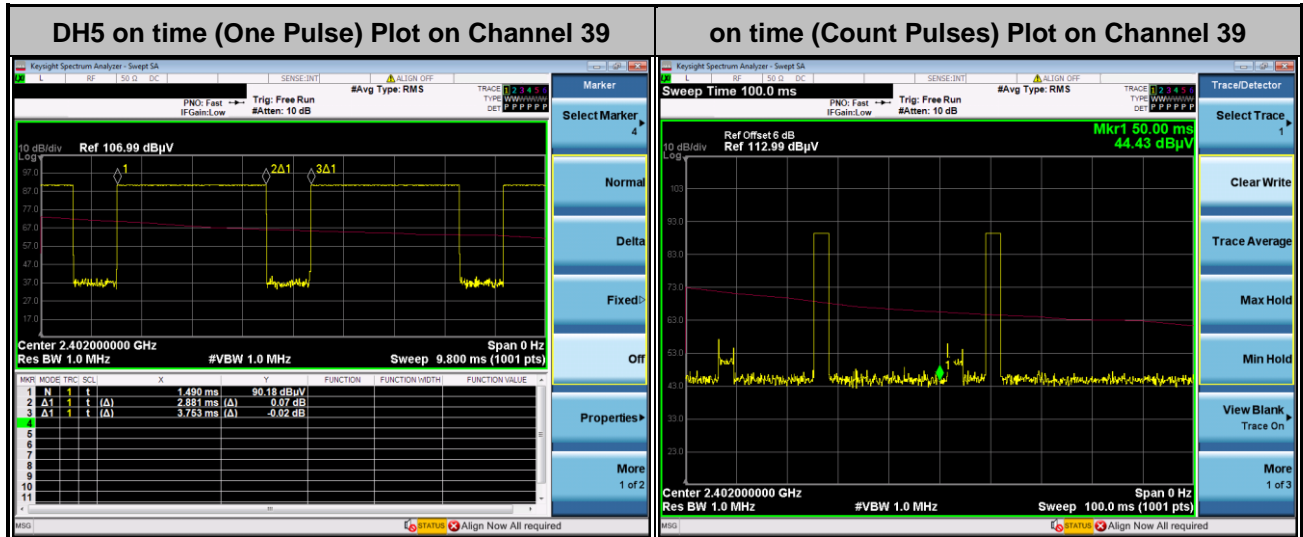
## 2.4GHz 2400~2483.5MHz

## BT (Harmonic @ 3m)

| BT               | 2.4GHz 2400~2483.5MHz Harmonic @ 3m  |          |        |        |             |             |             |        |        |          |            |          |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |        |            |   |         |       |        |       |       |       |       |       |     |        |            |   |  |      |       |      |       |             |       |        |       |       |        |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |          |          |   |         |       |        |       |       |       |       |       |     |          |          |
|------------------|--|----------|--------|--------|-------------|-------------|-------------|--------|--------|----------|------------|----------|----------|--|-----|--------|----|--------|--------|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|--------|------------|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|--------|------------|---|--|------|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|--|-----|--------|----|--------|--------|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|----------|----------|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|----------|----------|
| ANT              | BT CH78 2480MHz  |          |        |        |             |             |             |        |        |          |            |          |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |        |            |   |         |       |        |       |       |       |       |       |     |        |            |   |  |      |       |      |       |             |       |        |       |       |        |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |          |          |   |         |       |        |       |       |       |       |       |     |          |          |
| 1                | Horizontal   | Vertical |        |        |             |             |             |        |        |          |            |          |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |        |            |   |         |       |        |       |       |       |       |       |     |        |            |   |  |      |       |      |       |             |       |        |       |       |        |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |          |          |   |         |       |        |       |       |       |       |       |     |          |          |
| Peak<br><br>Avg. | <div><p>Site : 03C805-E5<br/>Condition : FCC PART 15C 3m 0117 00218052 HORIZONTAL<br/>SMP 1000, 1000Hz, TWP 1000, 0000Hz, SWT Auto</p><p>Plane : Z</p><table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4962.00</td><td>42.15</td><td>-31.85</td><td>74.00</td><td>55.95</td><td>34.82</td><td>11.39</td><td>60.81</td><td>300</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>7440.00</td><td>43.95</td><td>-30.05</td><td>74.00</td><td>54.82</td><td>36.62</td><td>13.85</td><td>60.54</td><td>300</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table></div> |          | Freq   | Level  | Over        | Limit       | ReadAntenna | Cable  | Preamp | A/Pos    | T/Pos      | Remark   | Pol/Phas |  | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | dB | cm | deg |  |  | 1 | 4962.00 | 42.15 | -31.85 | 74.00 | 55.95 | 34.82 | 11.39 | 60.81 | 300 | 0 Peak | HORIZONTAL | 2 | 7440.00 | 43.95 | -30.05 | 74.00 | 54.82 | 36.62 | 13.85 | 60.54 | 300 | 0 Peak | HORIZONTAL | <div><p>Site : 03C805-E5<br/>Condition : FCC PART 15C 3m 0117 00218052 VERTICAL<br/>SMP 1000, 1000Hz, TWP 1000, 0000Hz, SWT Auto</p><p>Plane : Z</p><table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4962.00</td><td>41.83</td><td>-32.17</td><td>74.00</td><td>55.63</td><td>34.82</td><td>11.39</td><td>60.81</td><td>300</td><td>360 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>7440.00</td><td>44.63</td><td>-29.37</td><td>74.00</td><td>54.79</td><td>36.62</td><td>13.85</td><td>60.54</td><td>300</td><td>360 Peak</td><td>VERTICAL</td></tr></table></div> |  | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas |  | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | dB | cm | deg |  |  | 1 | 4962.00 | 41.83 | -32.17 | 74.00 | 55.63 | 34.82 | 11.39 | 60.81 | 300 | 360 Peak | VERTICAL | 2 | 7440.00 | 44.63 | -29.37 | 74.00 | 54.79 | 36.62 | 13.85 | 60.54 | 300 | 360 Peak | VERTICAL |
|                  |  | Freq     | Level  | Over   | Limit       | ReadAntenna | Cable       | Preamp | A/Pos  | T/Pos    | Remark     | Pol/Phas |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |        |            |   |         |       |        |       |       |       |       |       |     |        |            |   |  |      |       |      |       |             |       |        |       |       |        |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |          |          |   |         |       |        |       |       |       |       |       |     |          |          |
|                  | MHz  | dBuV/m   | dB     | dBuV/m | dBuV/m      | dB          | dB          | cm     | deg    |          |            |          |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |        |            |   |         |       |        |       |       |       |       |       |     |        |            |   |  |      |       |      |       |             |       |        |       |       |        |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |          |          |   |         |       |        |       |       |       |       |       |     |          |          |
| 1                | 4962.00  | 42.15    | -31.85 | 74.00  | 55.95       | 34.82       | 11.39       | 60.81  | 300    | 0 Peak   | HORIZONTAL |          |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |        |            |   |         |       |        |       |       |       |       |       |     |        |            |   |  |      |       |      |       |             |       |        |       |       |        |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |          |          |   |         |       |        |       |       |       |       |       |     |          |          |
| 2                | 7440.00  | 43.95    | -30.05 | 74.00  | 54.82       | 36.62       | 13.85       | 60.54  | 300    | 0 Peak   | HORIZONTAL |          |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |        |            |   |         |       |        |       |       |       |       |       |     |        |            |   |  |      |       |      |       |             |       |        |       |       |        |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |          |          |   |         |       |        |       |       |       |       |       |     |          |          |
|                  | Freq   | Level    | Over   | Limit  | ReadAntenna | Cable       | Preamp      | A/Pos  | T/Pos  | Remark   | Pol/Phas   |          |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |        |            |   |         |       |        |       |       |       |       |       |     |        |            |   |  |      |       |      |       |             |       |        |       |       |        |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |          |          |   |         |       |        |       |       |       |       |       |     |          |          |
|                  | MHz  | dBuV/m   | dB     | dBuV/m | dBuV/m      | dB          | dB          | cm     | deg    |          |            |          |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |        |            |   |         |       |        |       |       |       |       |       |     |        |            |   |  |      |       |      |       |             |       |        |       |       |        |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |          |          |   |         |       |        |       |       |       |       |       |     |          |          |
| 1                | 4962.00  | 41.83    | -32.17 | 74.00  | 55.63       | 34.82       | 11.39       | 60.81  | 300    | 360 Peak | VERTICAL   |          |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |        |            |   |         |       |        |       |       |       |       |       |     |        |            |   |  |      |       |      |       |             |       |        |       |       |        |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |          |          |   |         |       |        |       |       |       |       |       |     |          |          |
| 2                | 7440.00  | 44.63    | -29.37 | 74.00  | 54.79       | 36.62       | 13.85       | 60.54  | 300    | 360 Peak | VERTICAL   |          |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |        |            |   |         |       |        |       |       |       |       |       |     |        |            |   |  |      |       |      |       |             |       |        |       |       |        |          |  |     |        |    |        |        |    |    |    |     |  |  |   |         |       |        |       |       |       |       |       |     |          |          |   |         |       |        |       |       |       |       |       |     |          |          |

## Appendix D. Duty Cycle Plots

<1Mbps>



Note:

1. Worst case Duty cycle = on time/100 milliseconds =  $2 * 2.881 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor =  $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.

————THE END————