

## TEST REPORT

**Product** : Wireless monitor  
**Trade mark** : N/A  
**Model/Type reference** : DXR-6  
**Serial Number** : N/A  
**Report Number** : EED32100275901  
**FCC ID** : 2AAAM-DXR-6BU  
**Date of Issue:** : Nov. 30 , 2016  
**Test Standards** : 47 CFR Part 15 Subpart C (2015)  
**Test result** : PASS

Prepared for:

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**2/A Harrison Court Stage 6, 10 Man Wan Road,**  
**Kowloon, Hong Kong**

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Date:

Nov. 30 , 2016

Check No.: 2392185320



## 2 Version

| Version No. | Date           | Description |
|-------------|----------------|-------------|
| 00          | Nov. 30 , 2016 | Original    |
|             |                |             |
|             |                |             |

### 3 Test Summary

| Test Item                                      | Test Requirement                                                                | Test method      | Result |
|------------------------------------------------|---------------------------------------------------------------------------------|------------------|--------|
| <b>Antenna Requirement</b>                     | 47 CFR Part 15, Subpart C Section 15.203/15.247 (c)                             | ANSI C63.10-2013 | PASS   |
| <b>AC Power Line Conducted Emission</b>        | 47 CFR Part 15, Subpart C Section 15.207                                        | ANSI C63.10-2013 | PASS   |
| <b>Conducted Peak Output Power</b>             | 47 CFR Part 15, Subpart C Section 15.247 (b)(1)                                 | ANSI C63.10-2013 | PASS   |
| <b>20dB Occupied Bandwidth</b>                 | 47 CFR Part 15, Subpart C Section 15.247 (a)(1)                                 | ANSI C63.10-2013 | PASS   |
| <b>Carrier Frequencies Separation</b>          | 47 CFR Part 15, Subpart C Section 15.247 (a)(1)                                 | ANSI C63.10-2013 | PASS   |
| <b>Hopping Channel Number</b>                  | 47 CFR Part 15, Subpart C Section 15.247 (b)                                    | ANSI C63.10-2013 | PASS   |
| <b>Dwell Time</b>                              | 47 CFR Part 15, Subpart C Section 15.247 (a)(1)                                 | ANSI C63.10-2013 | PASS   |
| <b>Pseudorandom Frequency Hopping Sequence</b> | 47 CFR Part 15, Subpart C Section 15.247(b)(4)&TCB Exclusion List (7 July 2002) | ANSI C63.10-2013 | PASS   |
| <b>RF Conducted Spurious Emissions</b>         | 47 CFR Part 15, Subpart C Section 15.247(d)                                     | ANSI C63.10-2013 | PASS   |
| <b>Radiated Spurious emissions</b>             | 47 CFR Part 15, Subpart C Section 15.205/15.209                                 | ANSI C63.10-2013 | PASS   |

Remark:

The tested samples and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application.

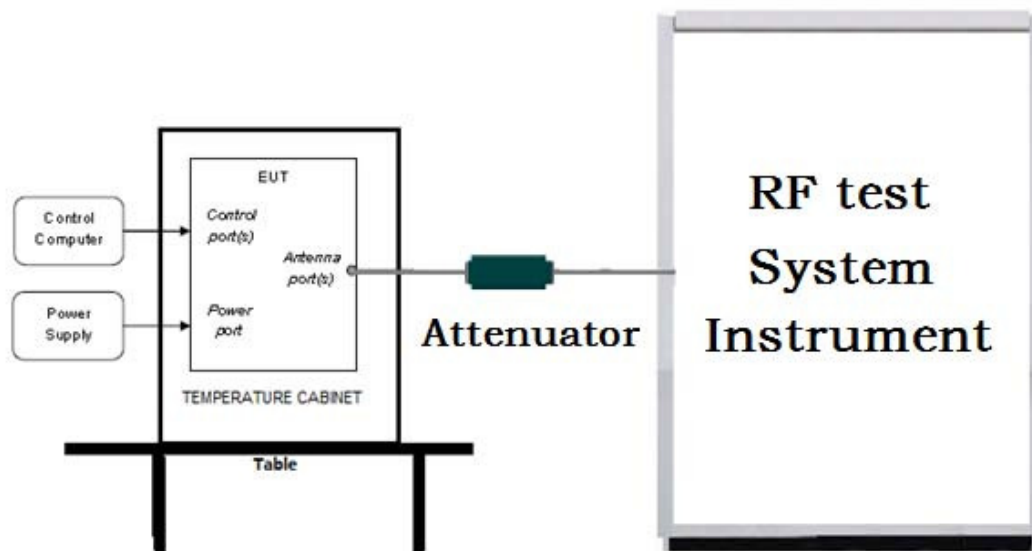
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## 5 Test Requirement

### 5.1 Test setup

#### 5.1.1 For Conducted test setup



#### 5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

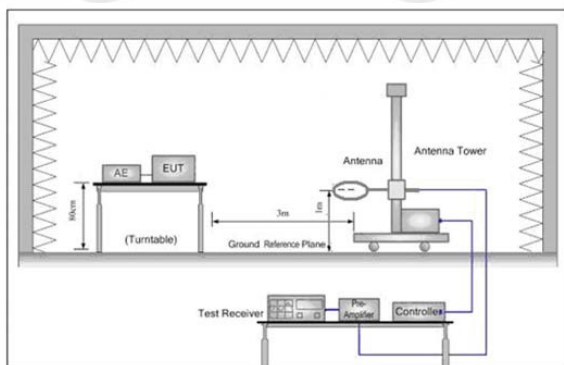


Figure 1. Below 30MHz

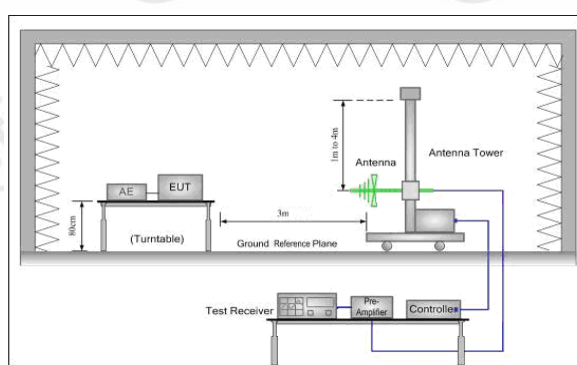


Figure 2. 30MHz to 1GHz

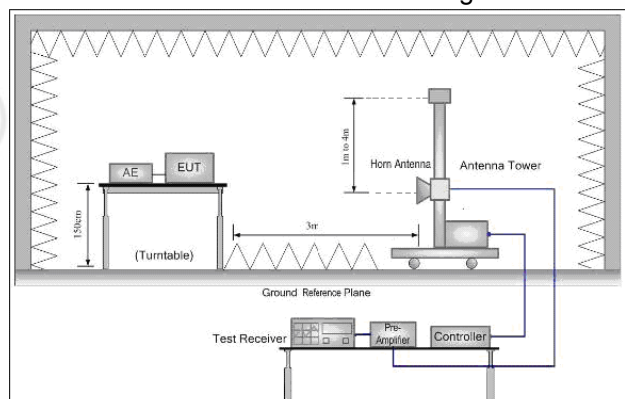
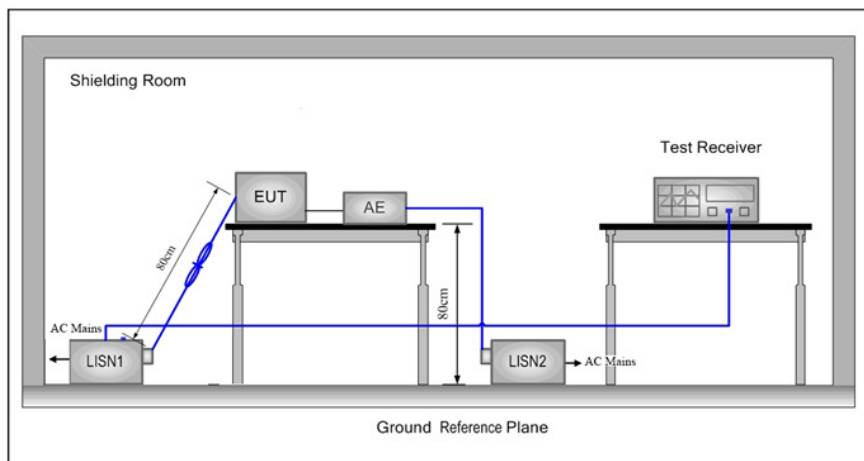


Figure 3. Above 1GHz

### 5.1.3 For Conducted Emissions test setup

#### Conducted Emissions setup



## 5.2 Test Environment

| Operating Environment: |          |
|------------------------|----------|
| Temperature:           | 22 °C    |
| Humidity:              | 53 % RH  |
| Atmospheric Pressure:  | 1010mbar |

## 5.3 Test Condition

| Test Mode         | Tx                                                                                    | RF Channel  |             |             |
|-------------------|---------------------------------------------------------------------------------------|-------------|-------------|-------------|
|                   |                                                                                       | Low(L)      | Middle(M)   | High(H)     |
| GFSK              | 2410.875MHz ~2471.625MHz                                                              | Channel 1   | Channel 10  | Channel19   |
|                   |                                                                                       | 2410.875MHz | 2441.250MHz | 2471.625MHz |
| Transmitter mode: | The EUT transmitted the continuous modulation test signal at the specific channel(s). |             |             |             |

## 6 General Information

### 6.1 Client Information

|                          |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|
| Applicant:               | Standard Merit Industrial Limited                                                 |
| Address of Applicant:    | 2/A Harrison Court Stage 6, 10 Man Wan Road, Kowloon, Hong Kong                   |
| Manufacturer:            | Foshan Shunde Alford Electronics Co., Ltd,                                        |
| Address of Manufacturer: | Xinjian Industrial Park, Daliang, Shunde, Foshan City, Guangdong Province, China. |

### 6.2 General Description of EUT

|                                  |                                |                                                                                                        |
|----------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------|
| Product Name:                    | Wireless monitor               |                                                                                                        |
| Model No.(EUT):                  | DXR-6                          |                                                                                                        |
| Trade mark:                      | N/A                            |                                                                                                        |
| EUT Supports Radios application: | 2410.875MHz ~2471.625MHz       |                                                                                                        |
| Power Supply:                    | AC adapter 1(Camera)           | Model: BLJ06W059055P1-U<br>Input: 100-240V~50/60Hz, 0.2A<br>Output: 5.9V $\overline{\text{---}}$ 550mA |
|                                  | AC adapter2 (Camera)           | Model: CS3B059055FU<br>Input: 100-240V~50/60Hz, 200mA<br>Output: 5.9VDC $\overline{\text{---}}$ 550mA  |
| Camera Power Line:               | 270cm(Unshielded)              |                                                                                                        |
| Sample Received Date:            | Oct. 26, 2016                  |                                                                                                        |
| Sample tested Date:              | Oct. 26, 2016 to Nov. 30, 2016 |                                                                                                        |

### 6.3 Product Specification subjective to this standard

|                                     |                                         |         |                 |         |                 |         |                 |
|-------------------------------------|-----------------------------------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Operation Frequency:                | 2410.875MHz ~2471.625MHz                |         |                 |         |                 |         |                 |
| Modulation Technique:               | Frequency Hopping Spread Spectrum(FHSS) |         |                 |         |                 |         |                 |
| Modulation Type:                    | GFSK                                    |         |                 |         |                 |         |                 |
| Number of Channel:                  | 19                                      |         |                 |         |                 |         |                 |
| Hopping Channel Type:               | Adaptive Frequency Hopping systems      |         |                 |         |                 |         |                 |
| Sample Type:                        | Mobile production                       |         |                 |         |                 |         |                 |
| Test Power Grade:                   | N/A                                     |         |                 |         |                 |         |                 |
| Test Software of EUT:               | N/A                                     |         |                 |         |                 |         |                 |
| Antenna Type:                       | Integral                                |         |                 |         |                 |         |                 |
| Antenna Gain:                       | 0dBi                                    |         |                 |         |                 |         |                 |
| Test Voltage:                       | AC 120V/60Hz, AC 240V/50Hz              |         |                 |         |                 |         |                 |
| Operation Frequency each of channel |                                         |         |                 |         |                 |         |                 |
| Channel                             | Frequency (MHz)                         | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 1                                   | 2410.875                                | 6       | 2427.750        | 11      | 2444.625        | 16      | 2461.500        |
| 2                                   | 2414.250                                | 7       | 2431.125        | 12      | 2448.000        | 17      | 2464.875        |
| 3                                   | 2417.625                                | 8       | 2434.500        | 13      | 2451.375        | 18      | 2468.250        |
| 4                                   | 2421.000                                | 9       | 2437.875        | 14      | 2454.750        | 19      | 2471.625        |
| 5                                   | 2424.375                                | 10      | 2441.250        | 15      | 2458.125        | ---     | ---             |

### 6.4 Description of Support Units

The EUT has been tested independently.

## 6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

## 6.6 Test Facility

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

### **CNAS-Lab Code: L1910**

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories..

### **A2LA-Lab Cert. No. 3061.01**

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

### **FCC-Registration No.: 886427**

Centre Testing International Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 886427.

### **IC-Registration No.: 7408A-2**

The 3m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A-2.

### **IC-Registration No.: 7408B-1**

The 10m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B-1.

### **NEMKO-Aut. No.: ELA503**

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

### **VCCI**

The Radiation 3 & 10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096.

Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-4563.  
Telecommunication Ports Conducted Disturbance Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758

## 6.7 Deviation from Standards

None.

## 6.8 Abnormalities from Standard Conditions

None.

## 6.9 Other Information Requested by the Customer

None.

## 6.10 Measurement Uncertainty(95% confidence levels, k=2)

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | $7.9 \times 10^{-8}$    |
| 2   | RF power, conducted             | 0.31dB (30MHz-1GHz)     |
|     |                                 | 0.57dB(1GHz-18GHz)      |
| 3   | Radiated Spurious emission test | 4.5dB (30MHz-1GHz)      |
|     |                                 | 4.8dB(1GHz-12.75GHz)    |
| 4   | Conduction emission             | 3.6dB (9kHz to 150kHz)  |
|     |                                 | 3.2dB (150kHz to 30MHz) |
| 5   | Temperature test                | 0.64°C                  |
| 6   | Humidity test                   | 2.8%                    |
| 7   | DC power voltages               | 0.025%                  |

## 7 Equipment List

| RF test system                   |               |                              |               |                        |                            |
|----------------------------------|---------------|------------------------------|---------------|------------------------|----------------------------|
| Equipment                        | Manufacturer  | Mode No.                     | Serial Number | Cal. Date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Signal Generator                 | Keysight      | E8257D                       | MY53401106    | 04-01-2016             | 03-31-2017                 |
| Spectrum Analyzer                | Keysight      | N9010A                       | MY54510339    | 04-01-2016             | 03-31-2017                 |
| Signal Generator                 | Keysight      | N5182B                       | MY53051549    | 04-01-2016             | 03-31-2017                 |
| High-pass filter                 | Sinoscite     | FL3CX03WG18<br>NM12-0398-002 | ---           | 01-12-2016             | 01-11-2017                 |
| High-pass filter                 | MICRO-TRONICS | SPA-F-63029-4                | ---           | 01-12-2016             | 01-11-2017                 |
| DC Power                         | Keysight      | E3642A                       | MY54436035    | 04-01-2016             | 03-31-2017                 |
| PC-1                             | Lenovo        | R4960d                       | ---           | 04-01-2016             | 03-31-2017                 |
| BT&Wi-Fi Automatic control       | R&S           | OSP120                       | 101374        | 04-01-2016             | 03-31-2017                 |
| RF control unit                  | JS Tonscend   | JS0806-2                     | 158060006     | 04-01-2016             | 03-31-2017                 |
| BT&Wi-Fi Automatic test software | JS Tonscend   | JS1120-2                     | ---           | 04-01-2016             | 03-31-2017                 |

| Conducted disturbance Test      |              |          |               |                        |                            |
|---------------------------------|--------------|----------|---------------|------------------------|----------------------------|
| Equipment                       | Manufacturer | Mode No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Receiver                        | R&S          | ESCI     | 100009        | 06-16-2016             | 06-15-2017                 |
| Temperature/ Humidity Indicator | TAYLOR       | 1451     | 1905          | 04-27-2016             | 04-26-2017                 |
| LISN                            | R&S          | ENV216   | 100098        | 06-16-2016             | 06-15-2017                 |
| LISN                            | schwarzbeck  | NNLK8121 | 8121-529      | 06-16-2016             | 06-15-2017                 |
| Voltage Probe                   | R&S          | ESH2-Z3  | --            | 07-09-2014             | 07-07-2017                 |
| Current Probe                   | R&S          | EZ17     | 100106        | 06-16-2016             | 06-15-2017                 |
| ISN                             | TESEQ GmbH   | ISN T800 | 30297         | 01-29-2015             | 01-27-2017                 |

| 3M Semi/full-anechoic Chamber    |               |                           |               |                        |                            |
|----------------------------------|---------------|---------------------------|---------------|------------------------|----------------------------|
| Equipment                        | Manufacturer  | Mode No.                  | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| 3M Chamber & Accessory Equipment | TDK           | SAC-3                     | ---           | 06-05-2016             | 06-05-2019                 |
| TRILOG Broadband Antenna         | SCHWARZBECK   | VULB9163                  | 9163-484      | 05-23-2016             | 05-22-2017                 |
| Microwave Preamplifier           | Agilent       | 8449B                     | 3008A02425    | 02-04-2016             | 02-03-2017                 |
| Horn Antenna                     | ETS-LINDGREN  | 3117                      | 00057407      | 07-20-2015             | 07-18-2018                 |
| Loop Antenna                     | ETS           | 6502                      | 00071730      | 07-30-2015             | 07-28-2017                 |
| Microwave Preamplifier           | A.H.SYSTEMS   | PAP-1840-60               | 6041.6042     | 06-30-2015             | 06-28-2018                 |
| Horn Antenna                     | A.H.SYSTEMS   | SAS-574 374               | ---           | 06-30-2015             | 06-28-2018                 |
| Spectrum Analyzer                | R&S           | FSP40                     | 100416        | 06-16-2016             | 06-15-2017                 |
| Receiver                         | R&S           | ESCI                      | 100435        | 06-16-2016             | 06-15-2017                 |
| Multi device Controller          | maturo        | NCD/070/10711 112         | ---           | 01-12-2016             | 01-11-2017                 |
| LISN                             | schwarzbeck   | NNBM8125                  | 81251547      | 06-16-2016             | 06-15-2017                 |
| LISN                             | schwarzbeck   | NNBM8125                  | 81251548      | 06-16-2016             | 06-15-2017                 |
| Signal Generator                 | Agilent       | E4438C                    | MY45095744    | 04-01-2016             | 03-31-2017                 |
| Signal Generator                 | Keysight      | E8257D                    | MY53401106    | 04-01-2016             | 03-31-2017                 |
| Temperature/ Humidity Indicator  | TAYLOR        | 1451                      | 1905          | 04-27-2016             | 04-26-2017                 |
| Cable line                       | Fulai(7M)     | SF106                     | 5219/6A       | 01-12-2016             | 01-11-2017                 |
| Cable line                       | Fulai(6M)     | SF106                     | 5220/6A       | 01-12-2016             | 01-11-2017                 |
| Cable line                       | Fulai(3M)     | SF106                     | 5216/6A       | 01-12-2016             | 01-11-2017                 |
| Cable line                       | Fulai(3M)     | SF106                     | 5217/6A       | 01-12-2016             | 01-11-2017                 |
| High-pass filter                 | Sinoscite     | FL3CX03WG18 NM12-0398-002 | ---           | 01-12-2016             | 01-11-2017                 |
| High-pass filter                 | MICRO-TRONICS | SPA-F-63029-4             | ---           | 01-12-2016             | 01-11-2017                 |
| band rejection filter            | Sinoscite     | FL5CX01CA09 CL12-0395-001 | ---           | 01-12-2016             | 01-11-2017                 |
| band rejection filter            | Sinoscite     | FL5CX01CA08 CL12-0393-001 | ---           | 01-12-2016             | 01-11-2017                 |
| band rejection filter            | Sinoscite     | FL5CX02CA04 CL12-0396-002 | ---           | 01-12-2016             | 01-11-2017                 |
| band rejection filter            | Sinoscite     | FL5CX02CA03 CL12-0394-001 | ---           | 01-12-2016             | 01-11-2017                 |

## 8 Radio Technical Requirements Specification

### Reference documents for testing:

| No. | Identity           | Document Title                                                     |
|-----|--------------------|--------------------------------------------------------------------|
| 1   | FCC Part15C (2015) | Subpart C-Intentional Radiators                                    |
| 2   | ANSI C63.10-2013   | American National Standard for Testing Unlicensed Wireless Devices |

### Test Results List:

| Test requirement                  | Test method | Test item                                                          | Verdict | Note        |
|-----------------------------------|-------------|--------------------------------------------------------------------|---------|-------------|
| Part15C Section 15.247 (a)(1)     | ANSI 63.10  | 20dB Occupied Bandwidth                                            | PASS    | Appendix A) |
| Part15C Section 15.247 (a)(1)     | ANSI 63.10  | Carrier Frequencies Separation                                     | PASS    | Appendix B) |
| Part15C Section 15.247 (a)(1)     | ANSI 63.10  | Dwell Time                                                         | PASS    | Appendix C) |
| Part15C Section 15.247 (b)        | ANSI 63.10  | Hopping Channel Number                                             | PASS    | Appendix D) |
| Part15C Section 15.247 (b)(1)     | ANSI 63.10  | Conducted Peak Output Power                                        | PASS    | Appendix E) |
| Part15C Section 15.247(d)         | ANSI 63.10  | Band-edge for RF Conducted Emissions                               | PASS    | Appendix F) |
| Part15C Section 15.247(d)         | ANSI 63.10  | RF Conducted Spurious Emissions                                    | PASS    | Appendix G) |
| Part15C Section 15.247 (a)(1)     | ANSI 63.10  | Pseudorandom Frequency Hopping Sequence                            | PASS    | Appendix H) |
| Part15C Section 15.203/15.247 (c) | ANSI 63.10  | Antenna Requirement                                                | PASS    | Appendix I) |
| Part15C Section 15.207            | ANSI 63.10  | AC Power Line Conducted Emission                                   | PASS    | Appendix J) |
| Part15C Section 15.205/15.209     | ANSI 63.10  | Restricted bands around fundamental frequency (Radiated) Emission) | PASS    | Appendix K) |
| Part15C Section 15.205/15.209     | ANSI 63.10  | Radiated Spurious Emissions                                        | PASS    | Appendix L) |

## Appendix A): 20dB Occupied Bandwidth

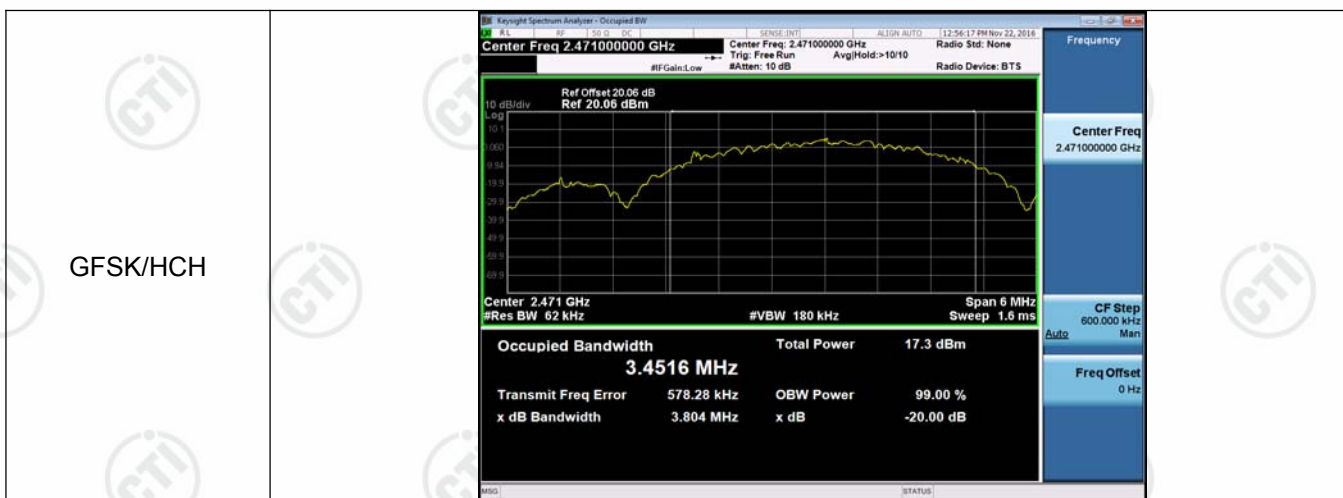
### Test Result

| Mode | Channel. | 20dB Bandwidth [MHz] | 99% OBW [MHz] | Verdict | Remark        |
|------|----------|----------------------|---------------|---------|---------------|
| GFSK | LCH      | 3.791                | 3.4835        | PASS    | Peak detector |
| GFSK | MCH      | 3.613                | 3.4349        | PASS    |               |
| GFSK | HCH      | 3.804                | 3.4516        | PASS    |               |

Remark : Pretest the two adapter and found the adapter 1 which is worst case, so only the worst case is recorded in the report.

### Test Graph





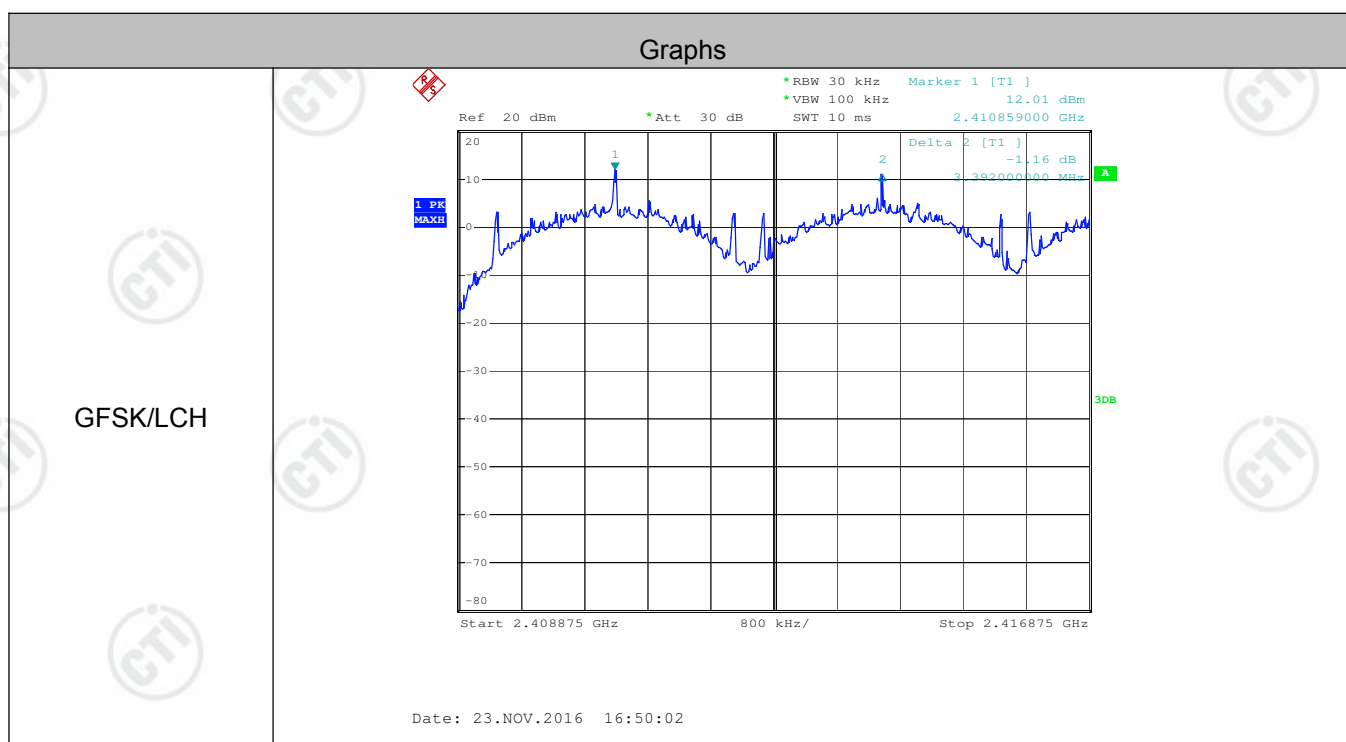
## Appendix B): Carrier Frequency Separation

### Result Table

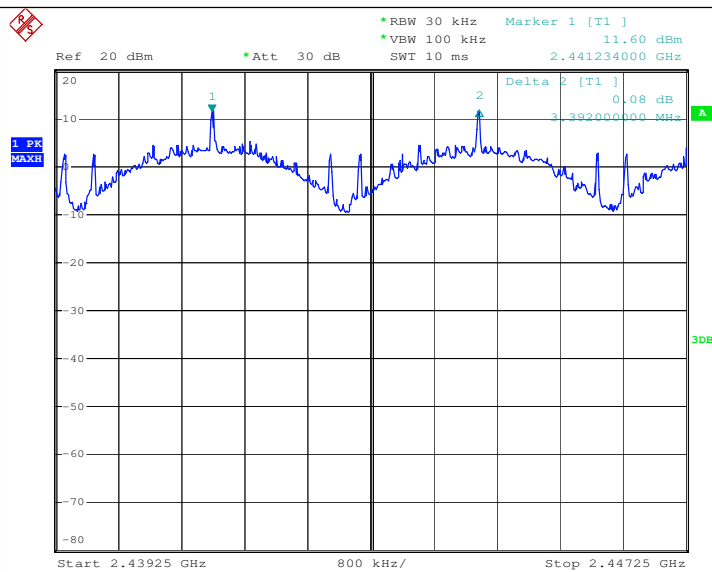
| Mode | Channel. | Carrier Frequency Separation [MHz] | Verdict |
|------|----------|------------------------------------|---------|
| GFSK | LCH      | 3.392                              | PASS    |
| GFSK | MCH      | 3.392                              | PASS    |
| GFSK | HCH      | 3.376                              | PASS    |

Remark : Pretest the two adapter and found the adapter 1 which is worst case, so only the worst case is recorded in the report.

### Test Graph

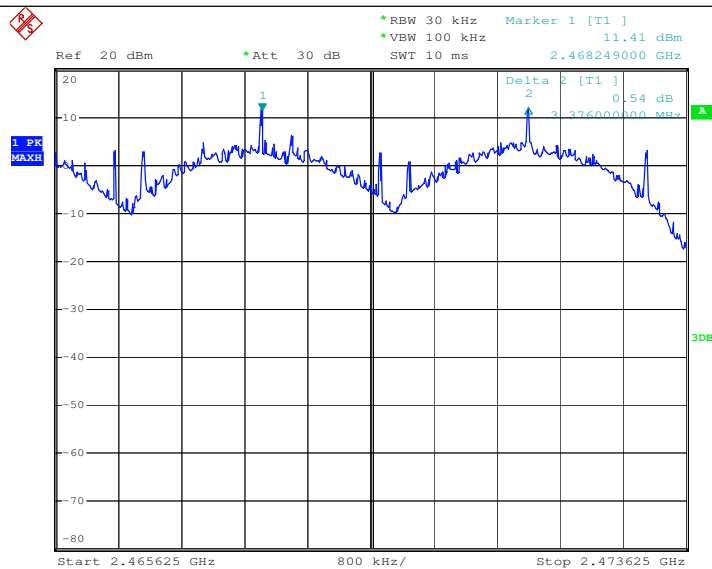


GFSK/MCH



Date: 23.NOV.2016 16:37:24

GFSK/HCH



Date: 23.NOV.2016 16:30:46

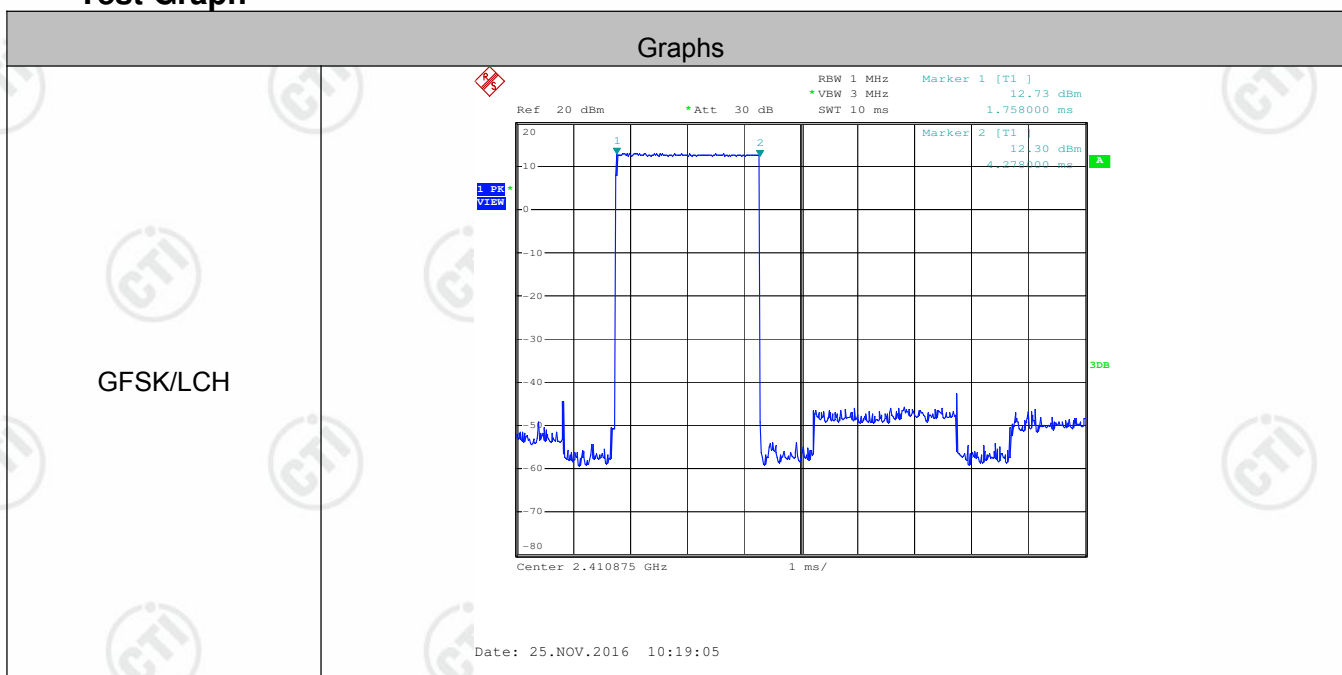
## Appendix C): Dwell Time

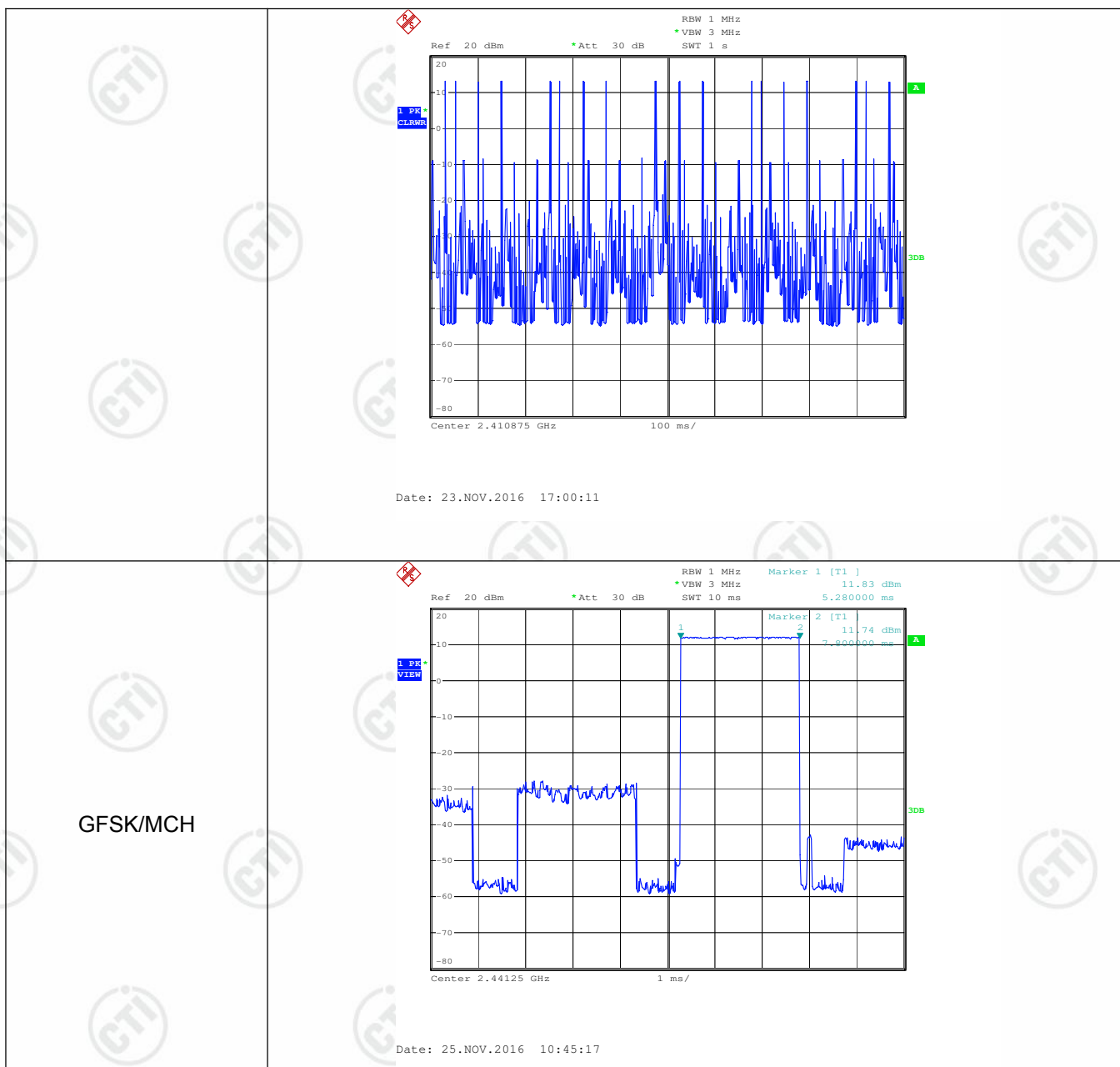
### Result Table

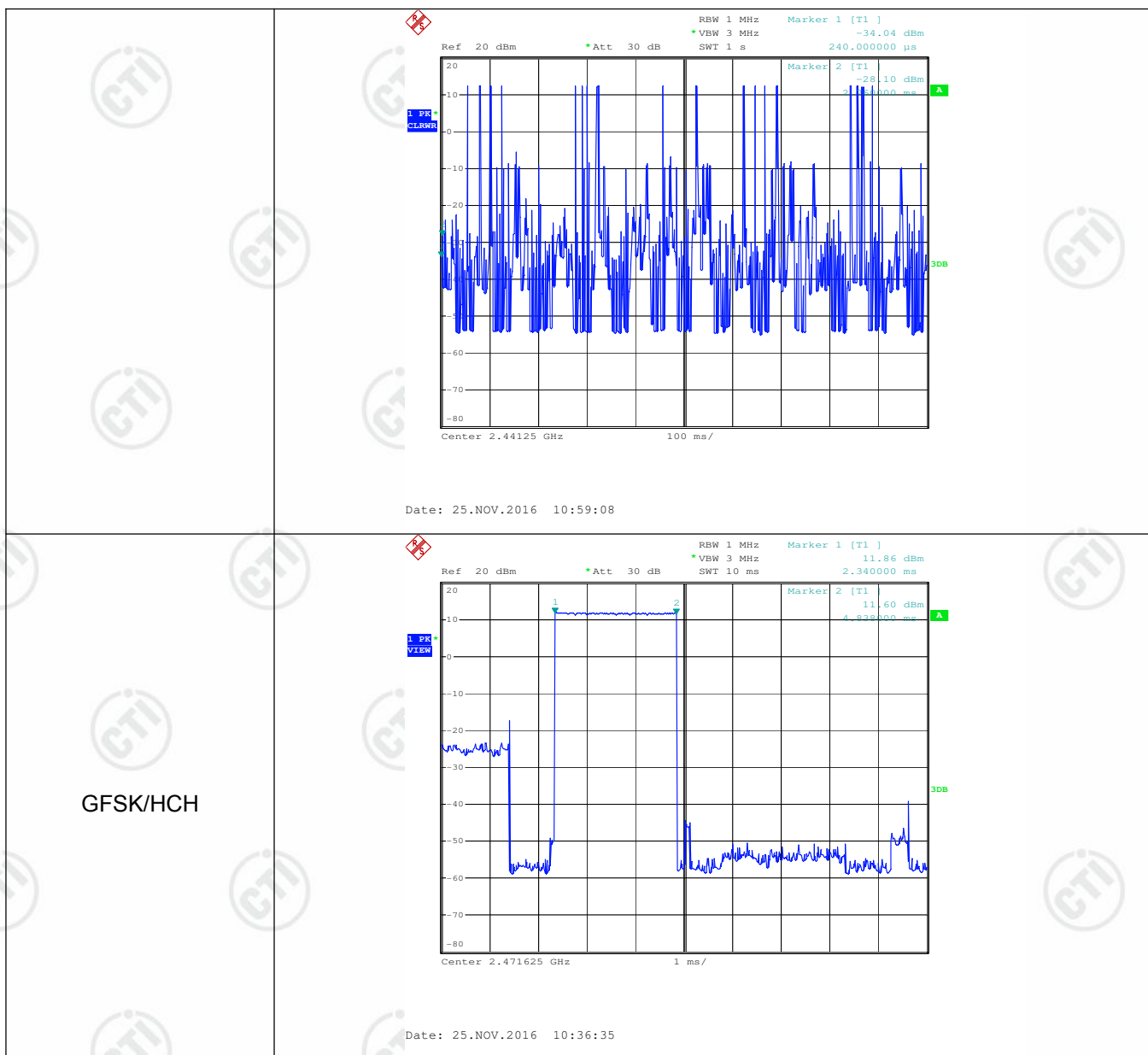
| Mode | Channel | Observe time[s] | one set of pulses[ms] | pulses within 1s | Dwell Time[s] | Verdict |
|------|---------|-----------------|-----------------------|------------------|---------------|---------|
| GFSK | LCH     | 7.6             | 2.52                  | 18               | 0.345         | PASS    |
| GFSK | MCH     | 7.6             | 2.52                  | 18               | 0.345         | PASS    |
| GFSK | HCH     | 7.6             | 2.50                  | 13               | 0.247         | PASS    |

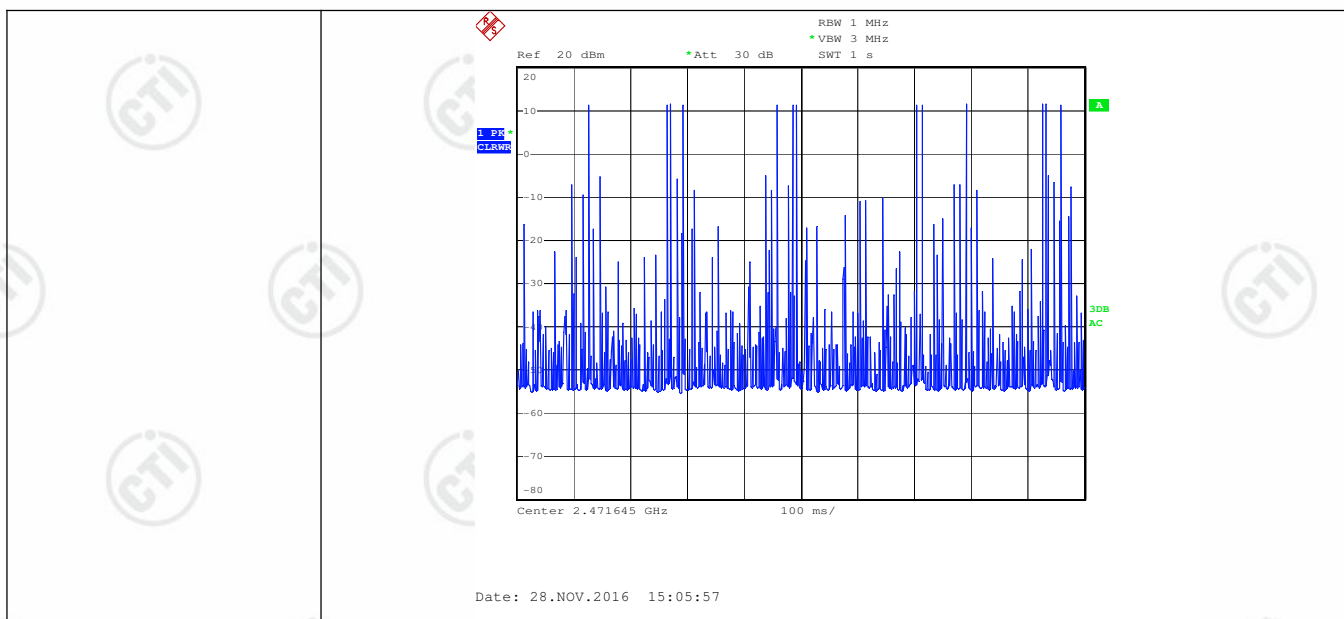
Remark : Pretest the two adapter and found the adapter 1 which is worst case, so only the worst case is recorded in the report.

### Test Graph







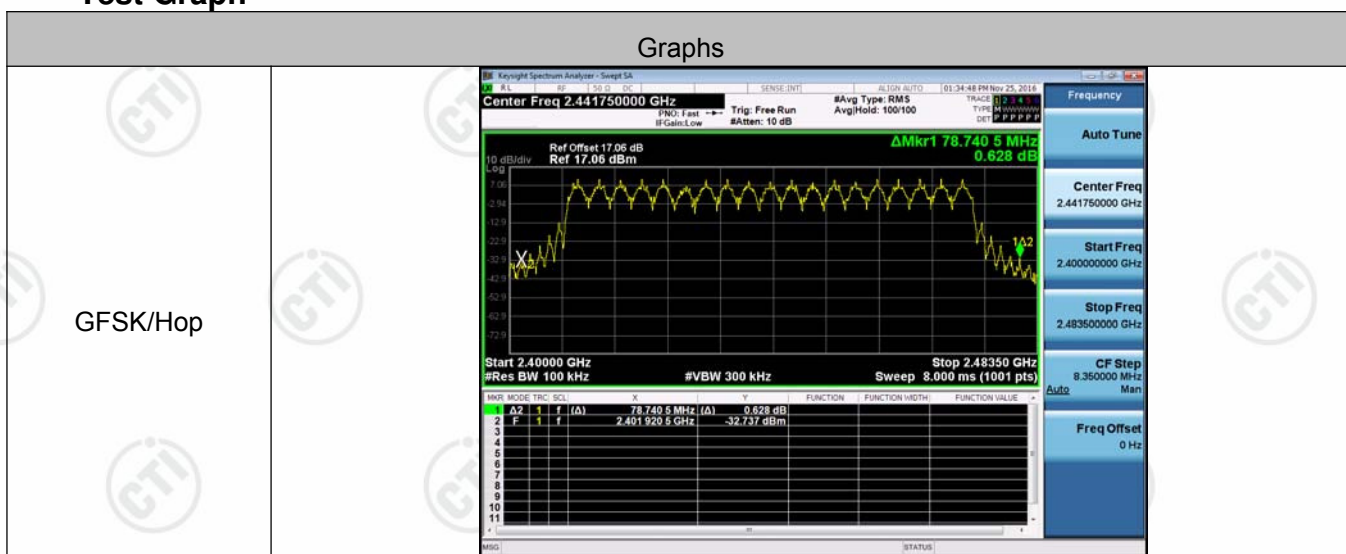


## Appendix D): Hopping Channel Number

### Result Table

| Mode | Channel. | Number of Hopping Channel | Verdict |
|------|----------|---------------------------|---------|
| GFSK | Hop      | 19                        | PASS    |

### Test Graph



## Appendix E): Conducted Peak Output Power Result Table

| Mode | Channel. | Maximum Peak Output Power [dBm] | Verdict |
|------|----------|---------------------------------|---------|
| GFSK | LCH      | 13.158                          | PASS    |
| GFSK | MCH      | 12.530                          | PASS    |
| GFSK | HCH      | 12.815                          | PASS    |

Remark : Pretest the two adapter and found the adapter 1 which is worst case, so only the worst case is recorded in the report.

### Test Graph





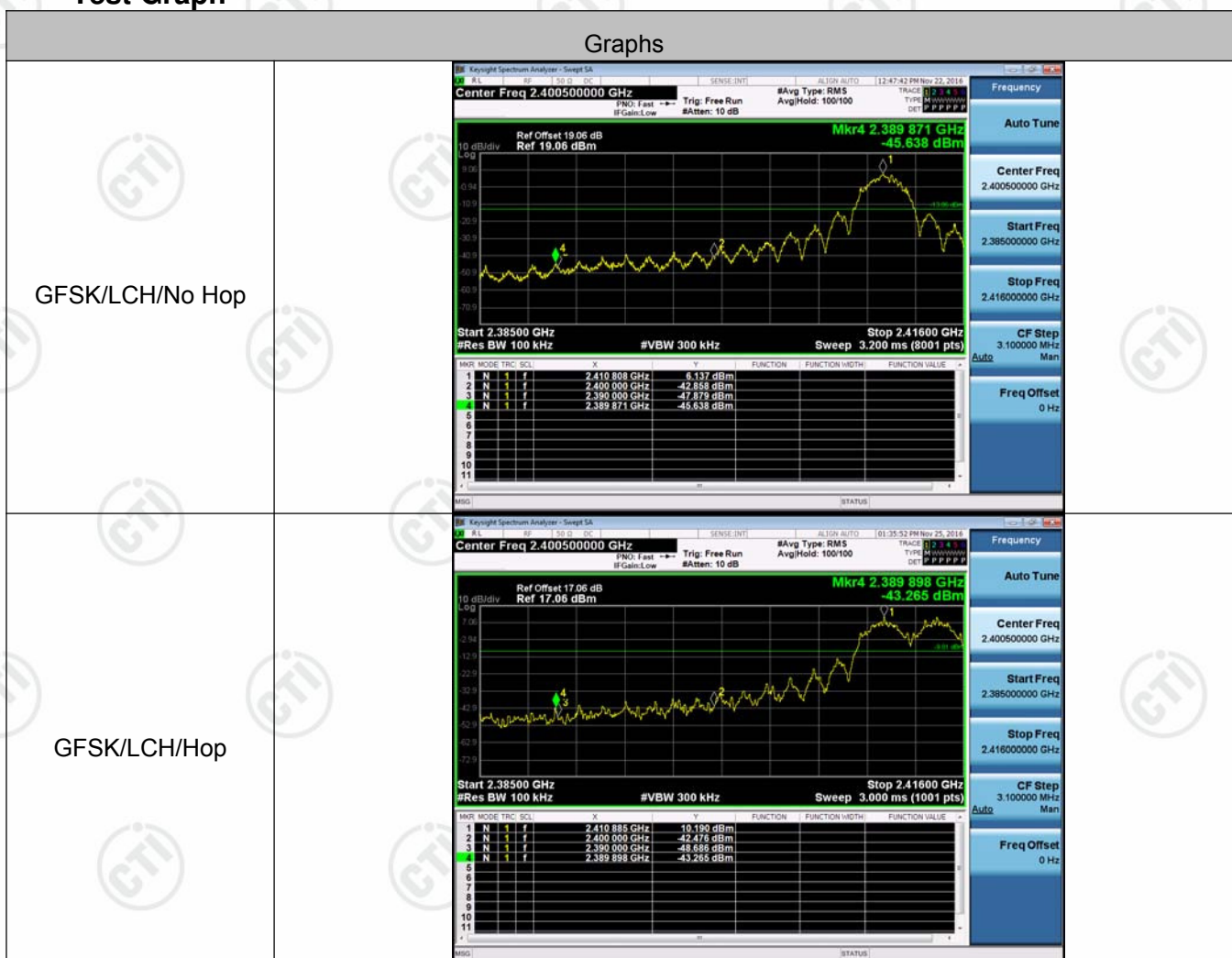
## Appendix F): Band-edge for RF Conducted Emissions

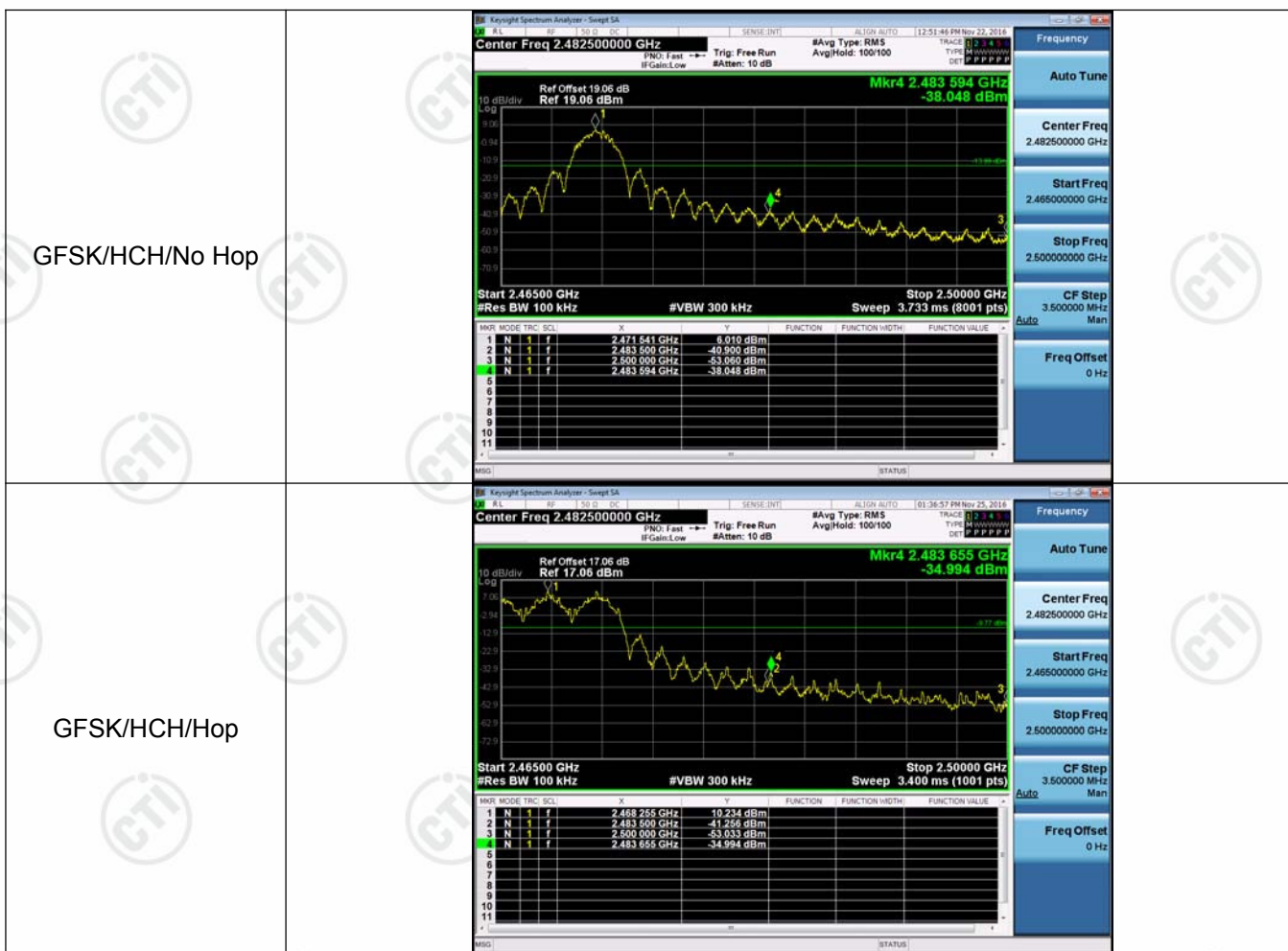
Result Table

| Mode | Channel | Carrier Power [dBm] | Frequency Hopping | Max Spurious Level [dBm] | Limit [dBm] | Verdict |
|------|---------|---------------------|-------------------|--------------------------|-------------|---------|
| GFSK | LCH     | 6.137               | Off               | -45.638                  | -13.86      | PASS    |
|      |         | 10.190              | On                | -43.265                  | -9.81       | PASS    |
| GFSK | HCH     | 6.010               | Off               | -38.048                  | -13.99      | PASS    |
|      |         | 10.234              | On                | -34.994                  | -9.77       | PASS    |

Remark : Pretest the two adapter and found the adapter 1 which is worst case, so only the worst case is recorded in the report.

Test Graph





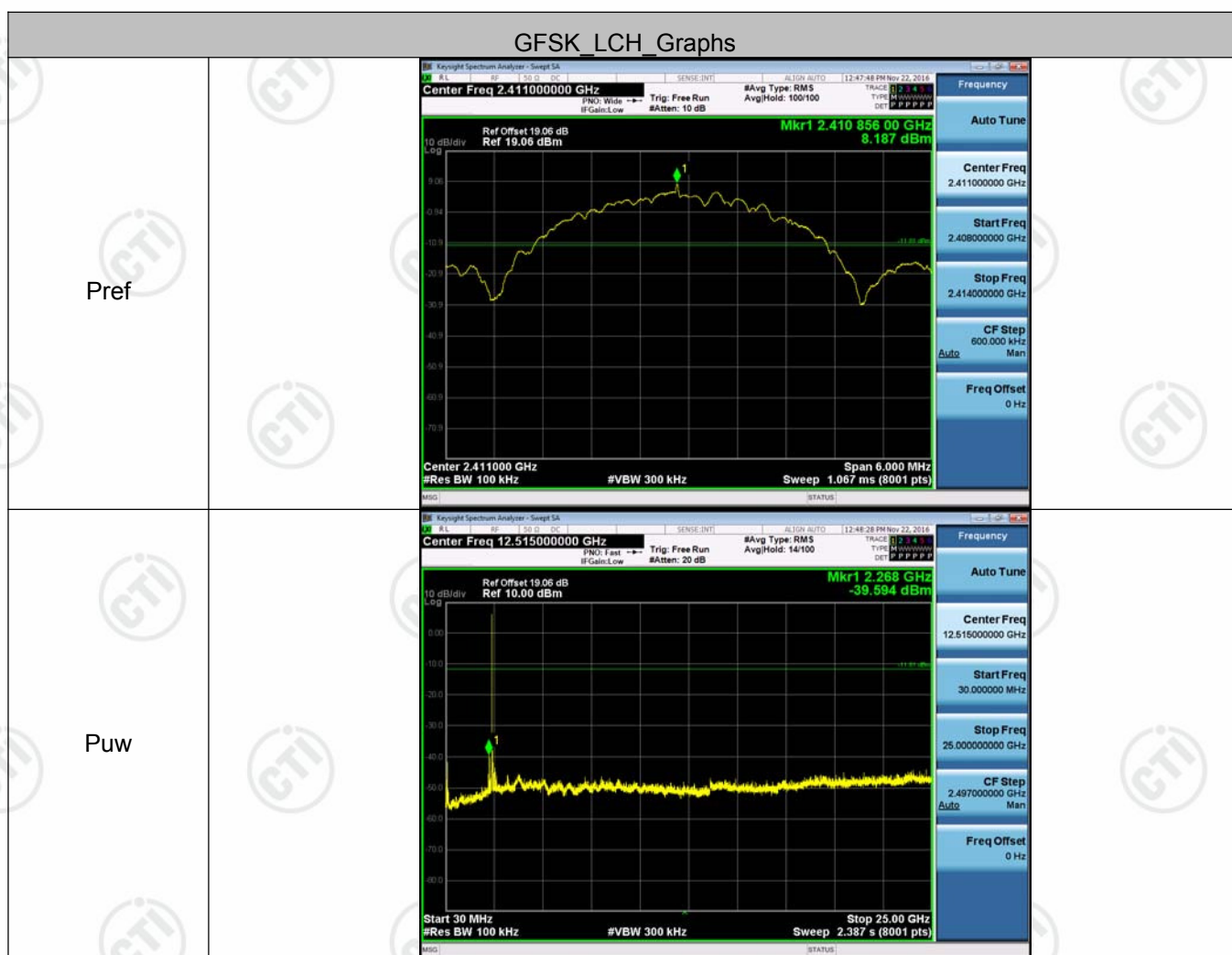
## Appendix G): RF Conducted Spurious Emissions

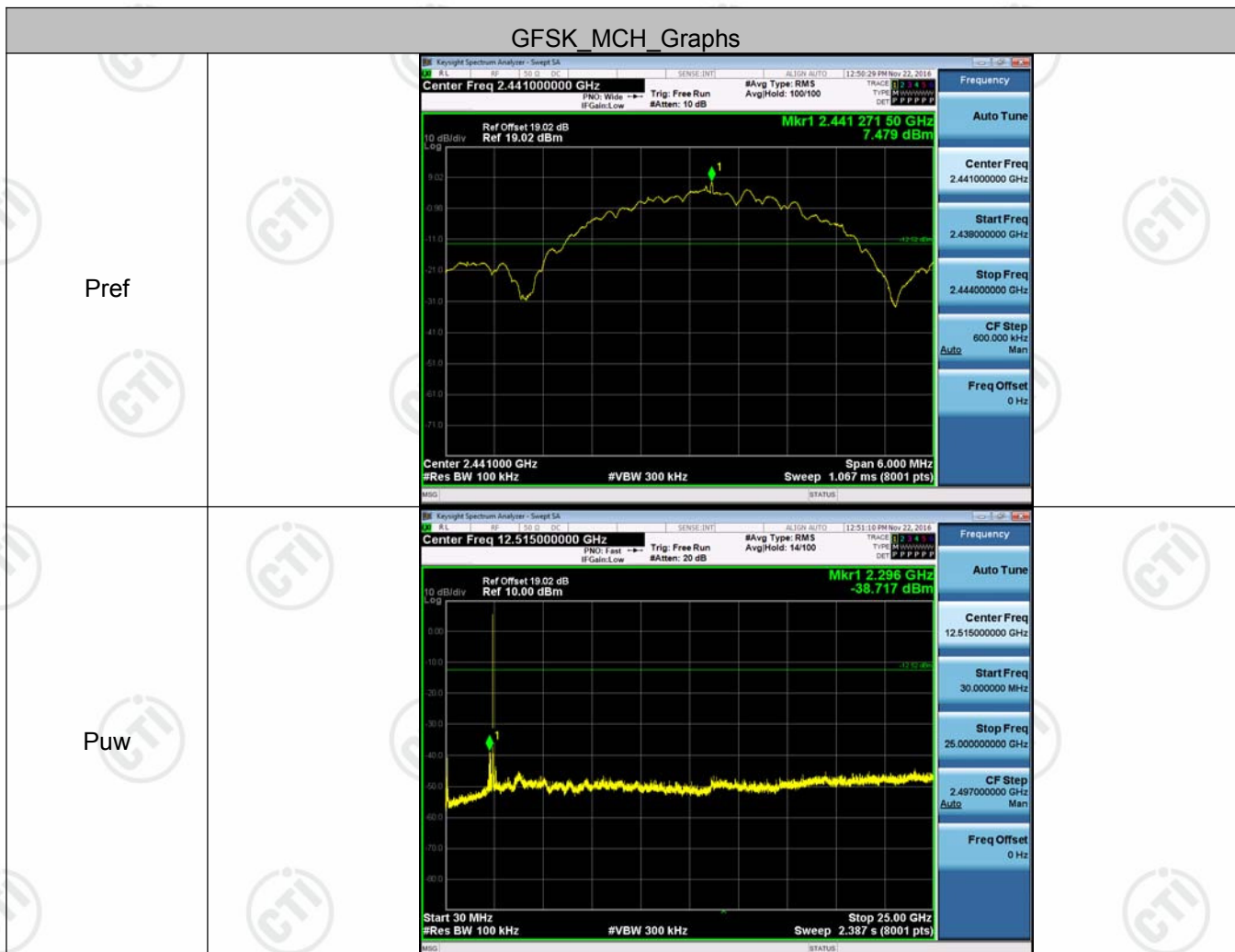
### Result Table

| Mode | Channel | Pref [dBm] | Puw[dBm] | Verdict |
|------|---------|------------|----------|---------|
| GFSK | LCH     | 8.187      | <Limit   | PASS    |
| GFSK | MCH     | 7.479      | <Limit   | PASS    |
| GFSK | HCH     | 7.078      | <Limit   | PASS    |

Remark : Pretest the two adapter and found the adapter 1 which is worst case, so only the worst case is recorded in the report.

### Test Graph







## Appendix H): Pseudorandom Frequency Hopping Sequence

| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 47 CFR Part 15C Section 15.247 (a)(1) requirement: |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <p>Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.</p> <p>Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |
| EUT Pseudorandom Frequency Hopping Sequence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |
| <p>The embedded FHSS engine uses 19 hopping frequencies. Each channel frequency is selected from a pseudorandom ordered list of hopping frequencies, from 2410.875MHz to 2471.625MHz with separating in 3.375MHz apart from each of the channels. A single data frame is transmitted on each frequency location before skipping to the next hopping frequency in the list. Each channel is occupied 3.45milliseconds.</p> <p>Typically, the initiation of an FHSS communication is as follows:</p> <ol style="list-style-type: none"> <li>1. The initiating party sends a request via a predefined frequency or control channel.</li> <li>2. The receiving party sends a number, known as a seed back to the initiating party.</li> <li>3. The initiating party sends a synchronization signal acknowledging to the receiving party as it has successfully established a transmission link.</li> <li>4. The communication begins, and both the receiving and the sending party change their frequencies along an unpredictable hopping sequence with pseudorandom properties.</li> </ol> <p>Pseudorandom Frequency Hopping Sequence:</p> <p>2410.875; 2414.250; 2417.625; 2421.000; 2424.375; 2427.750; 2431.125; 2434.500; 2437.875; 2441.250; 2444.625; 2448.000; 2451.375; 2454.750; 2458.125; 2461.500; 2464.875; 2468.250; 2471.625.</p> <p>System Receiver Input Bandwidth:</p> <p>The receiver bandwidth is equal to the receiver bandwidth in the 19 hopping channel mode. The receiver bandwidth was verified during RF hopping to the relative channel.</p> <p>Receiver Hopping Capability:</p> <p>The associated receiver has the ability to shift frequencies in synchronization with the transmitted signals, with they start connect with a same channel and then hop to next channel with a same formula among each other.</p> |                                                    |

## Appendix I): Antenna Requirement

15.203 requirement:

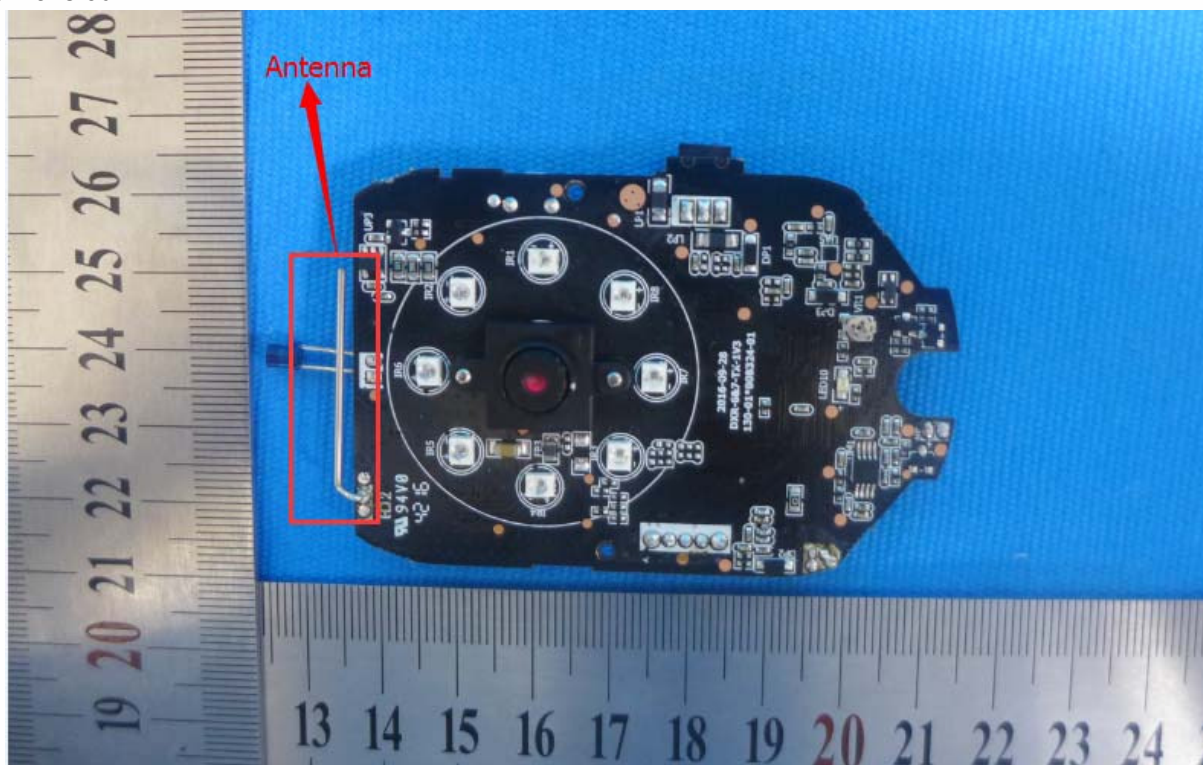
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.



## Appendix J): AC Power Line Conducted Emission

| Test Procedure:       | Test frequency range :150KHz-30MHz<br>1) The mains terminal disturbance voltage test was conducted in a shielded room.<br>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.<br>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,<br>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.<br>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement. |           |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|-----------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Limit:                | <table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> <p>* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.<br/>NOTE : The lower limit is applicable at the transition frequency</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |  | Frequency range (MHz) | Limit (dBμV) |  | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dBμV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
|                       | Quasi-peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Average   |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.15-0.5              | 66 to 56*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 56 to 46* |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.5-5                 | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 46        |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 5-30                  | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 50        |  |                       |              |  |            |         |          |           |           |       |    |    |      |    |    |

### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

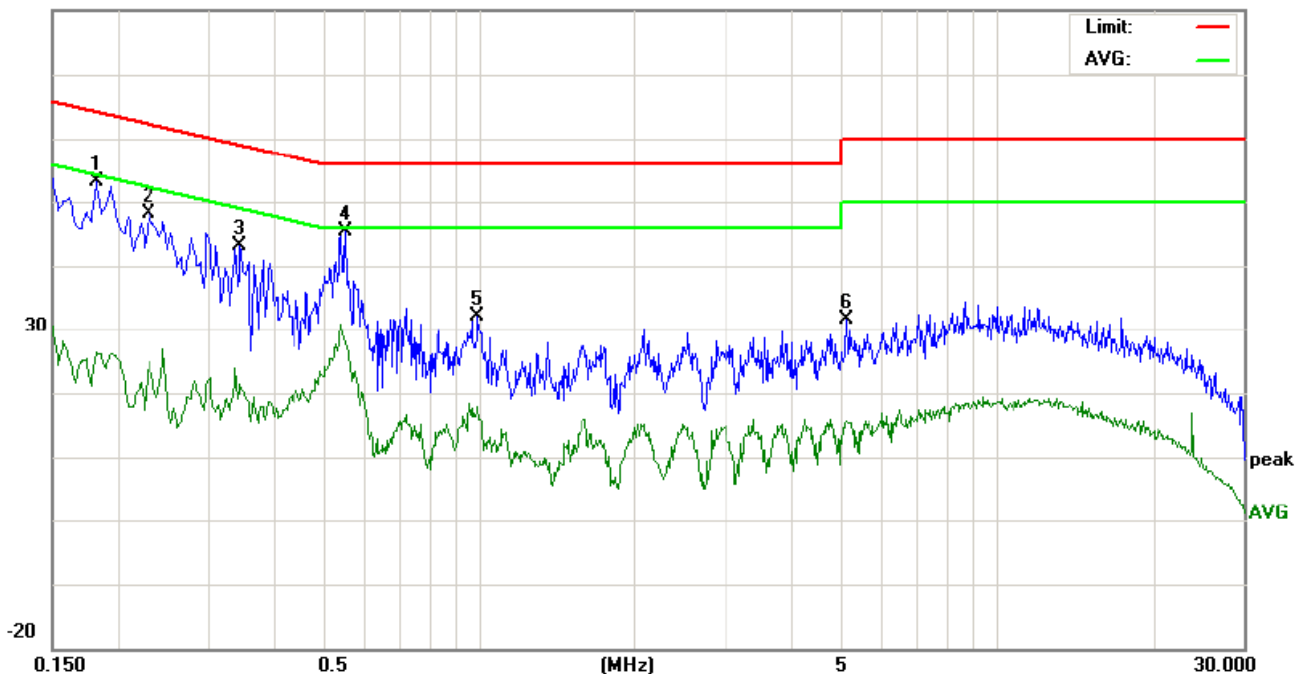
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

**Adapter 1(Camera): BLJ06W059055P1-U**

AC 120V/60Hz

Live line:

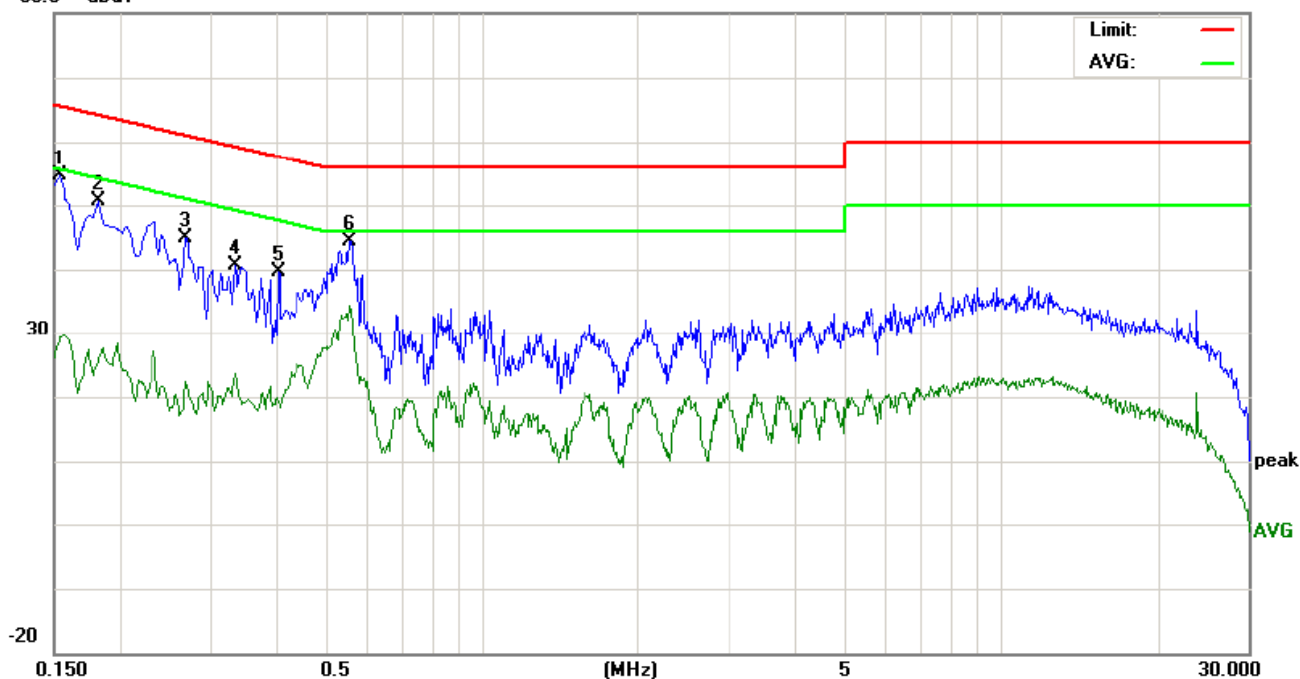
80.0 dBuV



| No. | Freq.<br>MHz | Reading_Level<br>(dBuV) |    |       | Correct<br>Factor<br>dB | Measurement<br>(dBuV) |    |       | Limit<br>(dBuV) |       | Margin<br>(dB) |        | P/F | Comment |
|-----|--------------|-------------------------|----|-------|-------------------------|-----------------------|----|-------|-----------------|-------|----------------|--------|-----|---------|
|     |              | Peak                    | QP | AVG   |                         | peak                  | QP | AVG   | QP              | AVG   | QP             | AVG    |     |         |
| 1   | 0.1819       | 43.26                   |    | 16.47 | 9.80                    | 53.06                 |    | 26.27 | 64.39           | 54.39 | -11.33         | -28.12 | P   |         |
| 2   | 0.2300       | 38.24                   |    | 15.08 | 9.80                    | 48.04                 |    | 24.88 | 62.45           | 52.45 | -14.41         | -27.57 | P   |         |
| 3   | 0.3460       | 33.38                   |    | 11.58 | 9.85                    | 43.23                 |    | 21.43 | 59.06           | 49.06 | -15.83         | -27.63 | P   |         |
| 4   | 0.5540       | 35.55                   |    | 17.90 | 9.90                    | 45.45                 |    | 27.80 | 56.00           | 46.00 | -10.55         | -18.20 | P   |         |
| 5   | 0.9980       | 22.54                   |    | 8.21  | 9.70                    | 32.24                 |    | 17.91 | 56.00           | 46.00 | -23.76         | -28.09 | P   |         |
| 6   | 5.1220       | 21.66                   |    | 5.62  | 10.00                   | 31.66                 |    | 15.62 | 60.00           | 50.00 | -28.34         | -34.38 | P   |         |

Neutral line:

80.0 dBuV



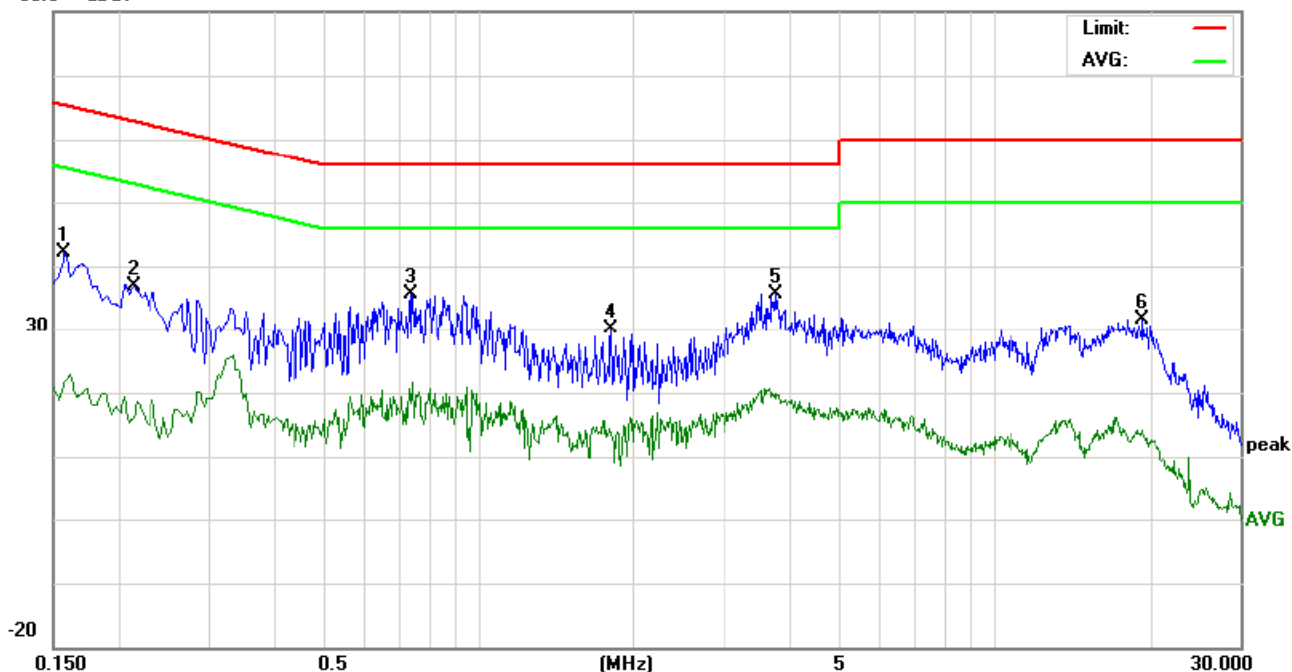
| No. | Freq.<br>MHz | Reading_Level<br>(dBuV) |    |       | Correct<br>Factor<br>dB | Measurement<br>(dBuV) |    |       | Limit<br>(dBuV) |       | Margin<br>(dB) |        | P/F | Comment |
|-----|--------------|-------------------------|----|-------|-------------------------|-----------------------|----|-------|-----------------|-------|----------------|--------|-----|---------|
|     |              | Peak                    | QP | AVG   |                         | peak                  | QP | AVG   | QP              | AVG   | QP             | AVG    |     |         |
| 1   | 0.1539       | 44.94                   |    | 19.62 | 9.80                    | 54.74                 |    | 29.42 | 65.78           | 55.78 | -11.04         | -26.36 | P   |         |
| 2   | 0.1819       | 40.83                   |    | 15.51 | 9.80                    | 50.63                 |    | 25.31 | 64.39           | 54.39 | -13.76         | -29.08 | P   |         |
| 3   | 0.2700       | 35.17                   |    | 12.51 | 9.80                    | 44.97                 |    | 22.31 | 61.12           | 51.12 | -16.15         | -28.81 | P   |         |
| 4   | 0.3339       | 30.90                   |    | 13.74 | 9.83                    | 40.73                 |    | 23.57 | 59.35           | 49.35 | -18.62         | -25.78 | P   |         |
| 5   | 0.4060       | 29.65                   |    | 9.28  | 9.90                    | 39.55                 |    | 19.18 | 57.73           | 47.73 | -18.18         | -28.55 | P   |         |
| 6   | 0.5580       | 34.50                   |    | 24.48 | 9.90                    | 44.40                 |    | 34.38 | 56.00           | 46.00 | -11.60         | -11.62 | P   |         |

**Adapter 2(Camera): CS3B059055FU**

AC 120V/60Hz

Live line:

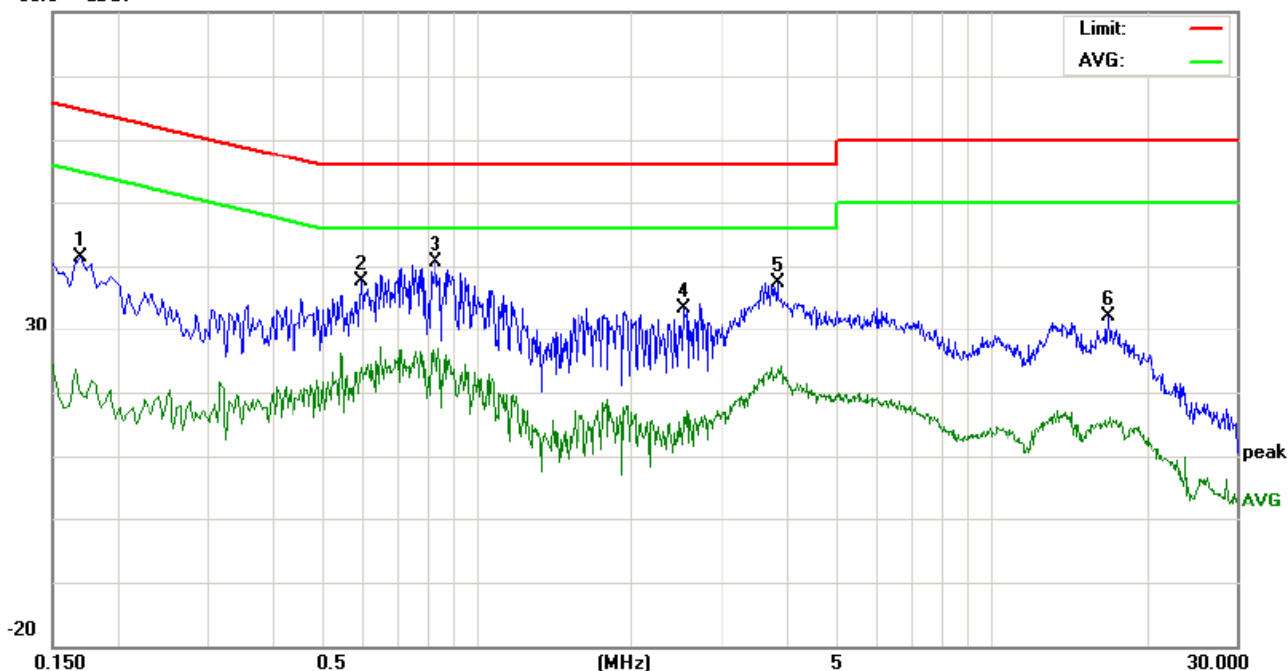
80.0 dBuV



| No. | Freq.<br>MHz | Reading_Level<br>(dBuV) |    |       | Correct<br>Factor<br>dB | Measurement<br>(dBuV) |    |       | Limit<br>(dBuV) |       | Margin<br>(dB) |        | P/F | Comment |
|-----|--------------|-------------------------|----|-------|-------------------------|-----------------------|----|-------|-----------------|-------|----------------|--------|-----|---------|
|     |              | Peak                    | QP | AVG   |                         | peak                  | QP | AVG   | QP              | AVG   | QP             | AVG    |     |         |
| 1   | 0.1580       | 32.30                   |    | 11.95 | 9.80                    | 42.10                 |    | 21.75 | 65.56           | 55.56 | -23.46         | -33.81 | P   |         |
| 2   | 0.2162       | 27.60                   |    | 11.04 | 9.80                    | 37.40                 |    | 20.84 | 62.96           | 52.96 | -25.56         | -32.12 | P   |         |
| 3   | 0.7380       | 25.76                   |    | 9.59  | 9.90                    | 35.66                 |    | 19.49 | 56.00           | 46.00 | -20.34         | -26.51 | P   |         |
| 4   | 1.8100       | 20.24                   |    | 4.02  | 9.94                    | 30.18                 |    | 13.96 | 56.00           | 46.00 | -25.82         | -32.04 | P   |         |
| 5   | 3.7700       | 25.74                   |    | 9.83  | 10.00                   | 35.74                 |    | 19.83 | 56.00           | 46.00 | -20.26         | -26.17 | P   |         |
| 6   | 19.3580      | 21.75                   |    | 3.97  | 9.84                    | 31.59                 |    | 13.81 | 60.00           | 50.00 | -28.41         | -36.19 | P   |         |

Neutral line:

80.0 dBuV



| No. | Freq.<br>MHz | Reading_Level<br>(dBuV) |    |       | Correct<br>Factor<br>dB | Measurement<br>(dBuV) |    |       | Limit<br>(dBuV) |       | Margin<br>(dB) |        | P/F | Comment |
|-----|--------------|-------------------------|----|-------|-------------------------|-----------------------|----|-------|-----------------|-------|----------------|--------|-----|---------|
|     |              | Peak                    | QP | AVG   |                         | peak                  | QP | AVG   | QP              | AVG   | QP             | AVG    |     |         |
| 1   | 0.1700       | 31.55                   |    | 10.19 | 9.80                    | 41.35                 |    | 19.99 | 64.96           | 54.96 | -23.61         | -34.97 | P   |         |
| 2   | 0.5980       | 27.66                   |    | 13.92 | 9.90                    | 37.56                 |    | 23.82 | 56.00           | 46.00 | -18.44         | -22.18 | P   |         |
| 3   | 0.8340       | 30.92                   |    | 16.40 | 9.83                    | 40.75                 |    | 26.23 | 56.00           | 46.00 | -15.25         | -19.77 | P   |         |
| 4   | 2.5260       | 23.43                   |    | 5.43  | 10.00                   | 33.43                 |    | 15.43 | 56.00           | 46.00 | -22.57         | -30.57 | P   |         |
| 5   | 3.8540       | 27.43                   |    | 13.56 | 10.00                   | 37.43                 |    | 23.56 | 56.00           | 46.00 | -18.57         | -22.44 | P   |         |
| 6   | 16.8980      | 22.12                   |    | 5.24  | 9.99                    | 32.11                 |    | 15.23 | 60.00           | 50.00 | -27.89         | -34.77 | P   |         |

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

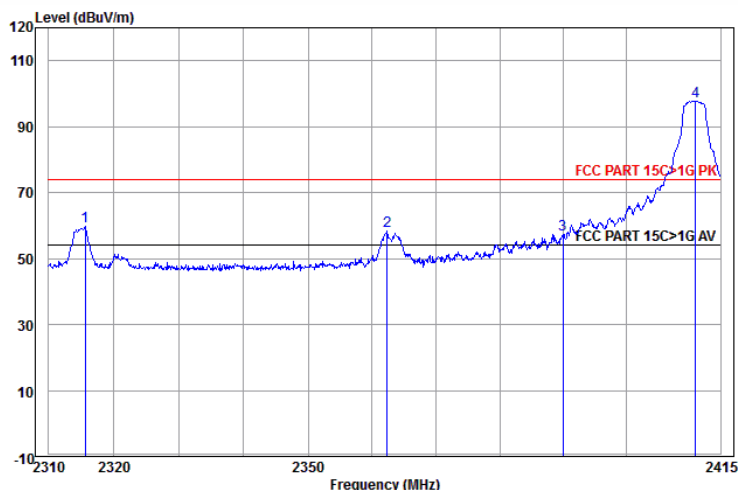
## Appendix K): Restricted bands around fundamental frequency (Radiated)

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                  |        |            |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|--------|------------|
| Receiver Setup: | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Detector           | RBW              | VBW    | Remark     |
|                 | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quasi-peak         | 120kHz           | 300kHz | Quasi-peak |
|                 | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Peak               | 1MHz             | 3MHz   | Peak       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Peak               | 1MHz             | 10Hz   | Average    |
| Test Procedure: | <p><b>Below 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> </ol> <p><b>Above 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).</li> <li>b. Test the EUT in the lowest channel , the Highest channel</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol> |                    |                  |        |            |
| Limit:          | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Limit (dBuV/m @3m) | Remark           |        |            |
|                 | 30MHz-88MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 40.0               | Quasi-peak Value |        |            |
|                 | 88MHz-216MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 43.5               | Quasi-peak Value |        |            |
|                 | 216MHz-960MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 46.0               | Quasi-peak Value |        |            |
|                 | 960MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 54.0               | Quasi-peak Value |        |            |
|                 | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 54.0               | Average Value    |        |            |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 74.0               | Peak Value       |        |            |

Test plot as follows:

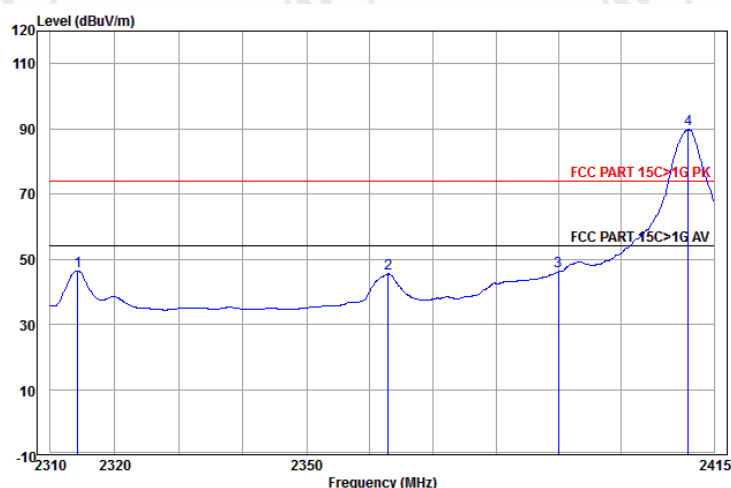
Adapter 1(Camera): BLJ06W059055P1-U

|                      |                      |                          |              |
|----------------------|----------------------|--------------------------|--------------|
| Worse case mode:     | GFSK                 |                          |              |
| Frequency: 2390.0MHz | Test channel: Lowest | Polarization: Horizontal | Remark: Peak |



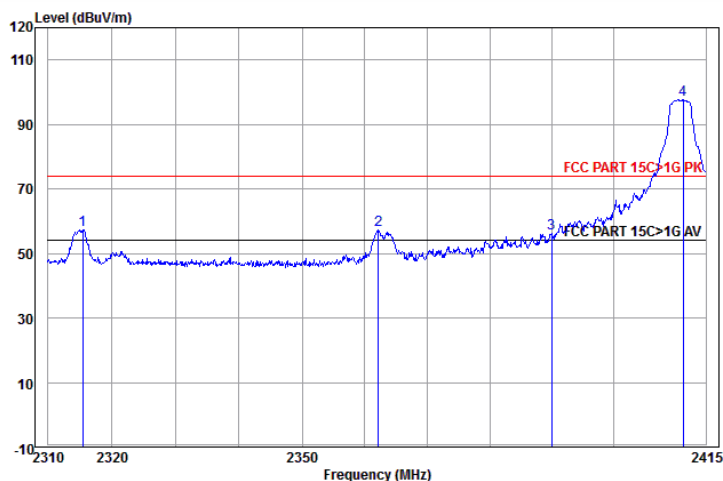
|      | Freq     | Ant Factor | Cable Loss | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Pol/Phase  | Remark |
|------|----------|------------|------------|---------------|------------|--------|--------|------------|------------|--------|
|      | MHz      | dB/m       | dB         | dB            | dBuV       | dBuV/m | dBuV/m | dB         |            |        |
| 1    | 2315.552 | 32.39      | 4.09       | 34.37         | 57.62      | 59.73  | 74.00  | -14.27     | Horizontal |        |
| 2    | 2362.337 | 32.48      | 4.21       | 34.38         | 56.02      | 58.33  | 74.00  | -15.67     | Horizontal |        |
| 3    | 2390.000 | 32.53      | 4.28       | 34.39         | 54.99      | 57.41  | 74.00  | -16.59     | Horizontal |        |
| 4 pp | 2411.031 | 32.58      | 4.33       | 34.39         | 95.14      | 97.66  | 74.00  | 23.66      | Horizontal |        |

|                      |                      |                          |                 |
|----------------------|----------------------|--------------------------|-----------------|
| Worse case mode:     | GFSK                 |                          |                 |
| Frequency: 2390.0MHz | Test channel: Lowest | Polarization: Horizontal | Remark: Average |



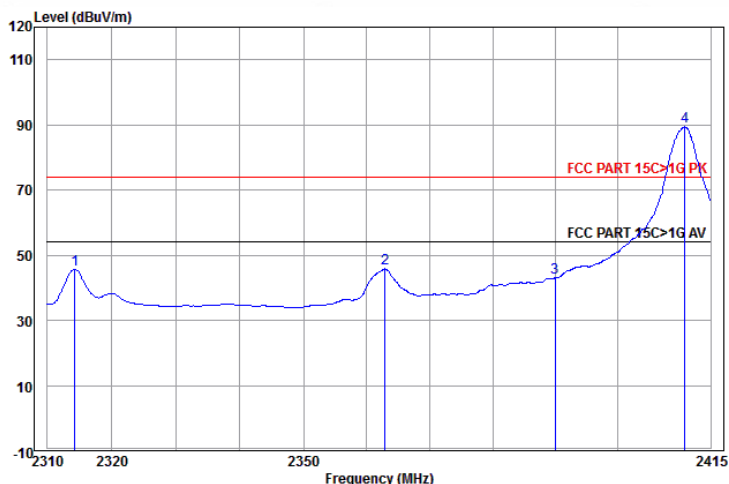
|      | Freq     | Ant Factor | Cable Loss | Preamp Factor | Read Level | Level  | Limit  | Over Limit | Pol/Phase  | Remark  |
|------|----------|------------|------------|---------------|------------|--------|--------|------------|------------|---------|
|      | MHz      | dB/m       | dB         | dB            | dBuV       | dBuV/m | dBuV/m | dB         |            |         |
| 1    | 2314.214 | 32.38      | 4.09       | 34.37         | 44.38      | 46.48  | 54.00  | -7.52      | Horizontal | Average |
| 2    | 2362.862 | 32.48      | 4.21       | 34.38         | 43.22      | 45.53  | 54.00  | -8.47      | Horizontal | Average |
| 3    | 2390.000 | 32.53      | 4.28       | 34.39         | 43.80      | 46.22  | 54.00  | -7.78      | Horizontal | Average |
| 4 pp | 2410.817 | 32.58      | 4.33       | 34.39         | 87.26      | 89.78  | 54.00  | 35.78      | Horizontal | Average |

|                      |                      |                        |              |
|----------------------|----------------------|------------------------|--------------|
| Worse case mode:     | GFSK                 |                        |              |
| Frequency: 2390.0MHz | Test channel: Lowest | Polarization: Vertical | Remark: Peak |



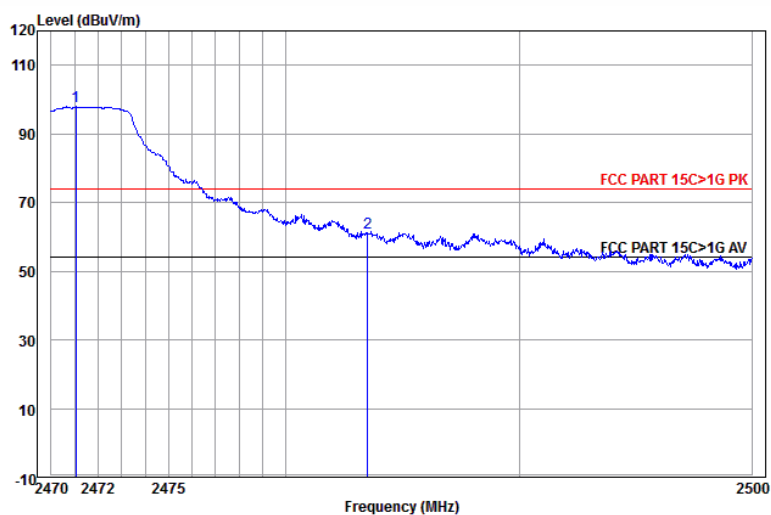
|      | Ant Freq | Cable Factor | Preamp Loss | Read Level | Level | Limit Line | Over Limit | Pol/Phase | Remark   |
|------|----------|--------------|-------------|------------|-------|------------|------------|-----------|----------|
|      | MHz      | dB/m         | dB          | dB         | dBuV  | dBuV/m     | dBuV/m     | dB        |          |
| 1    | 2315.449 | 32.39        | 4.09        | 34.37      | 55.29 | 57.40      | 74.00      | -16.60    | Vertical |
| 2    | 2362.126 | 32.48        | 4.21        | 34.38      | 54.85 | 57.16      | 74.00      | -16.84    | Vertical |
| 3    | 2390.000 | 32.53        | 4.28        | 34.39      | 53.74 | 56.16      | 74.00      | -17.84    | Vertical |
| 4 pp | 2411.353 | 32.58        | 4.33        | 34.39      | 95.01 | 97.53      | 74.00      | 23.53     | Vertical |

|                      |                      |                        |                 |
|----------------------|----------------------|------------------------|-----------------|
| Worse case mode:     | GFSK                 |                        |                 |
| Frequency: 2390.0MHz | Test channel: Lowest | Polarization: Vertical | Remark: Average |



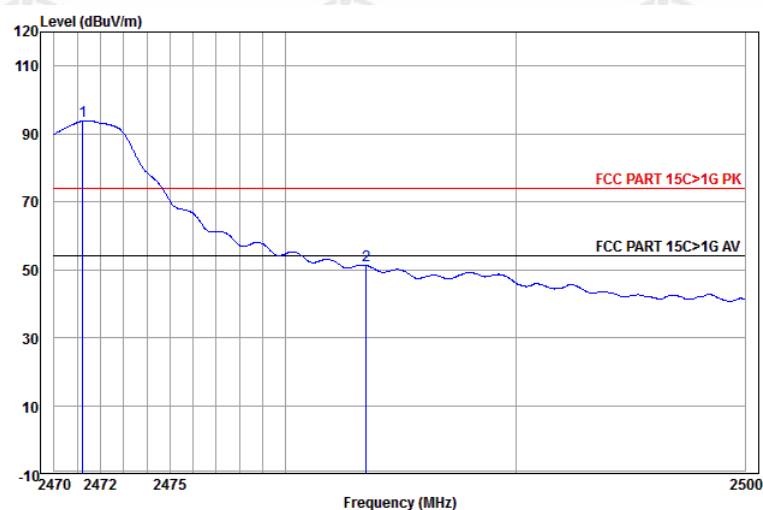
|      | Ant Freq | Cable Factor | Preamp Loss | Read Level | Level | Limit Line | Over Limit | Pol/Phase | Remark   |
|------|----------|--------------|-------------|------------|-------|------------|------------|-----------|----------|
|      | MHz      | dB/m         | dB          | dB         | dBuV  | dBuV/m     | dBuV/m     | dB        |          |
| 1    | 2314.214 | 32.38        | 4.09        | 34.37      | 43.56 | 45.66      | 54.00      | -8.34     | Vertical |
| 2    | 2362.862 | 32.48        | 4.21        | 34.38      | 43.49 | 45.80      | 54.00      | -8.20     | Vertical |
| 3    | 2390.000 | 32.53        | 4.28        | 34.39      | 40.69 | 43.11      | 54.00      | -10.89    | Vertical |
| 4 pp | 2410.817 | 32.58        | 4.33        | 34.39      | 86.90 | 89.42      | 54.00      | 35.42     | Vertical |

|                      |                       |                          |              |
|----------------------|-----------------------|--------------------------|--------------|
| Worse case mode:     | GFSK                  |                          |              |
| Frequency: 2483.5MHz | Test channel: Highest | Polarization: Horizontal | Remark: Peak |



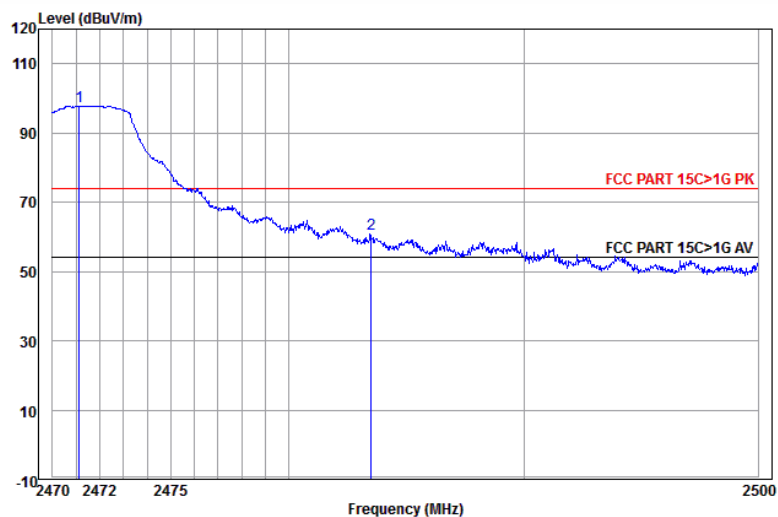
|      | Ant Freq | Cable Factor | Preamp Loss | Read Level | Level | Limit Line | Over Limit | Pol/Phase | Remark     |
|------|----------|--------------|-------------|------------|-------|------------|------------|-----------|------------|
|      | MHz      | dB/m         | dB          | dB         | dBuV  | dBuV/m     | dBuV/m     | dB        |            |
| 1 pp | 2471.044 | 32.69        | 4.48        | 34.40      | 95.22 | 97.99      | 74.00      | 23.99     | Horizontal |
| 2    | 2483.500 | 32.71        | 4.51        | 34.41      | 58.45 | 61.26      | 74.00      | -12.74    | Horizontal |

|                      |                       |                          |                 |
|----------------------|-----------------------|--------------------------|-----------------|
| Worse case mode:     | GFSK                  |                          |                 |
| Frequency: 2483.5MHz | Test channel: Highest | Polarization: Horizontal | Remark: Average |



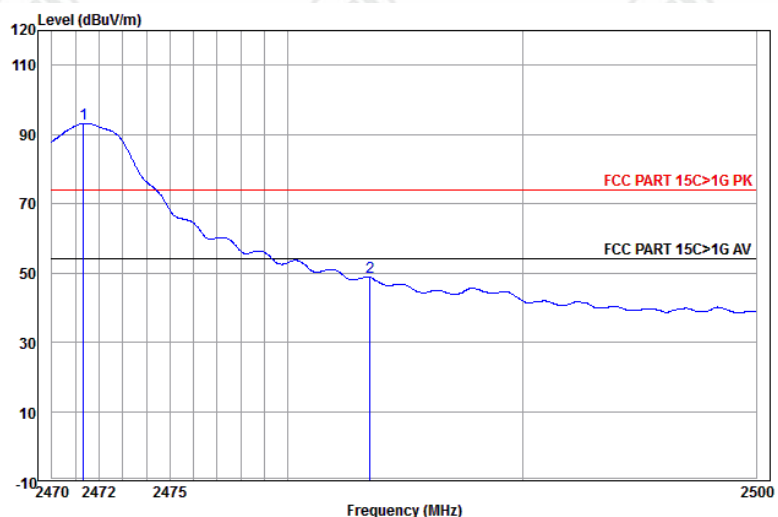
|      | Ant Freq | Cable Factor | Preamp Loss | Read Level | Level | Limit Line | Over Limit | Pol/Phase | Remark             |
|------|----------|--------------|-------------|------------|-------|------------|------------|-----------|--------------------|
|      | MHz      | dB/m         | dB          | dB         | dBuV  | dBuV/m     | dBuV/m     | dB        |                    |
| 1 pp | 2471.223 | 32.69        | 4.48        | 34.40      | 90.98 | 93.75      | 54.00      | 39.75     | Horizontal Average |
| 2    | 2483.500 | 32.71        | 4.51        | 34.41      | 48.44 | 51.25      | 54.00      | -2.75     | Horizontal Average |

|                      |                       |                        |              |
|----------------------|-----------------------|------------------------|--------------|
| Worse case mode:     | GFSK                  |                        |              |
| Frequency: 2483.5MHz | Test channel: Highest | Polarization: Vertical | Remark: Peak |



|      | Ant<br>Freq | Cable<br>Factor | Preamp<br>Loss | Read<br>Level | Read<br>Level | Limit<br>Line | Over<br>Limit | Pol/Phase | Remark   |
|------|-------------|-----------------|----------------|---------------|---------------|---------------|---------------|-----------|----------|
|      | MHz         | dB/m            | dB             | dB            | dBuV          | dBuV/m        | dBuV/m        | dB        |          |
| 1 pp | 2471.133    | 32.69           | 4.48           | 34.40         | 95.03         | 97.80         | 74.00         | 23.80     | Vertical |
| 2    | 2483.500    | 32.71           | 4.51           | 34.41         | 57.96         | 60.77         | 74.00         | -13.23    | Vertical |

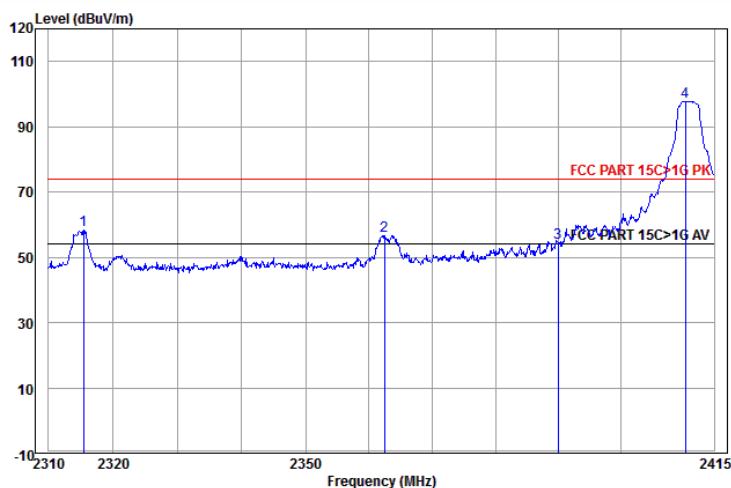
|                      |                       |                        |                 |
|----------------------|-----------------------|------------------------|-----------------|
| Worse case mode:     | GFSK                  |                        |                 |
| Frequency: 2483.5MHz | Test channel: Highest | Polarization: Vertical | Remark: Average |



|      | Ant<br>Freq | Cable<br>Factor | Preamp<br>Loss | Read<br>Level | Read<br>Level | Limit<br>Line | Over<br>Limit | Pol/Phase | Remark           |
|------|-------------|-----------------|----------------|---------------|---------------|---------------|---------------|-----------|------------------|
|      | MHz         | dB/m            | dB             | dB            | dBuV          | dBuV/m        | dBuV/m        | dB        |                  |
| 1 pp | 2471.342    | 32.69           | 4.48           | 34.40         | 90.33         | 93.10         | 54.00         | 39.10     | Vertical Average |
| 2    | 2483.500    | 32.71           | 4.51           | 34.41         | 45.87         | 48.68         | 54.00         | -5.32     | Vertical Average |

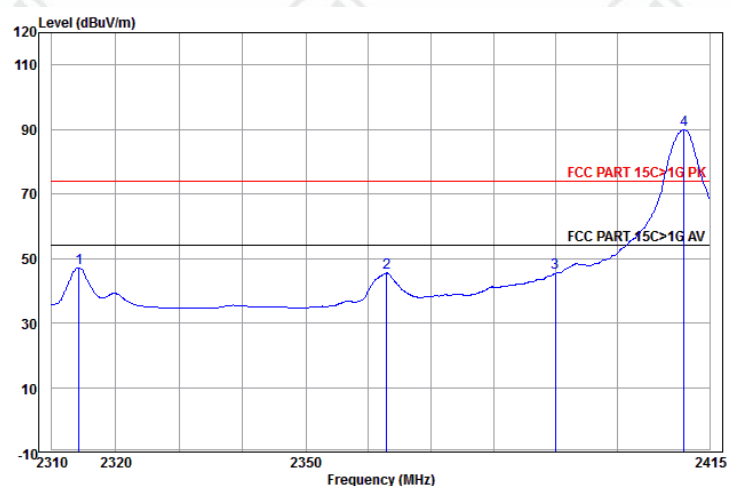
**Adapter 2(Camera): CS3B059055FU**

|                      |                      |                          |              |
|----------------------|----------------------|--------------------------|--------------|
| Worse case mode:     | GFSK                 |                          |              |
| Frequency: 2390.0MHz | Test channel: Lowest | Polarization: Horizontal | Remark: Peak |



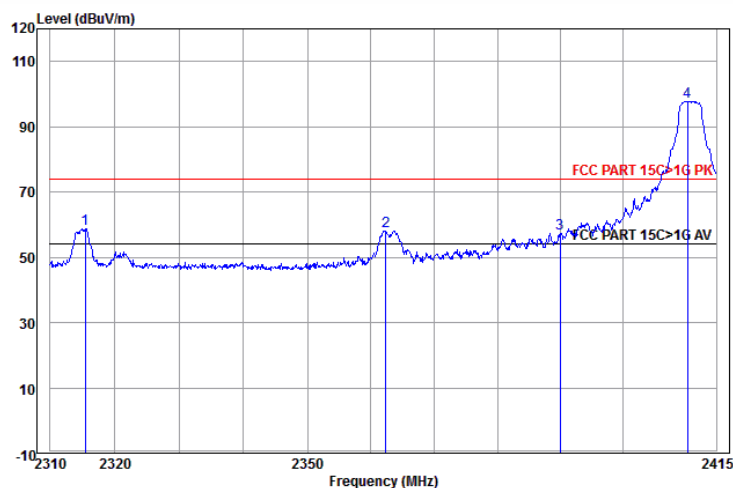
|      | Ant Freq | Cable Factor | Preamp Loss | Read Level | Level | Limit Line | Over Limit | Pol/Phase | Remark     |
|------|----------|--------------|-------------|------------|-------|------------|------------|-----------|------------|
|      | MHz      | dB/m         | dB          | dB         | dBuV  | dBuV/m     | dBuV/m     | dB        |            |
| 1    | 2315.449 | 32.39        | 4.09        | 34.37      | 56.40 | 58.51      | 74.00      | -15.49    | Horizontal |
| 2    | 2362.442 | 32.48        | 4.21        | 34.38      | 54.40 | 56.71      | 74.00      | -17.29    | Horizontal |
| 3    | 2390.000 | 32.53        | 4.28        | 34.39      | 52.22 | 54.64      | 74.00      | -19.36    | Horizontal |
| 4 pp | 2410.388 | 32.57        | 4.33        | 34.39      | 95.28 | 97.79      | 74.00      | 23.79     | Horizontal |

|                      |                      |                          |                 |
|----------------------|----------------------|--------------------------|-----------------|
| Worse case mode:     | GFSK                 |                          |                 |
| Frequency: 2390.0MHz | Test channel: Lowest | Polarization: Horizontal | Remark: Average |



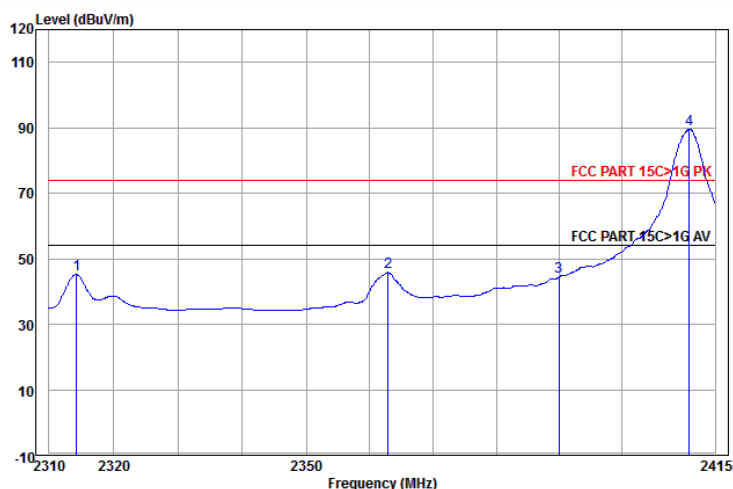
|      | Ant Freq | Cable Factor | Preamp Loss | Read Level | Level | Limit Line | Over Limit | Pol/Phase | Remark             |
|------|----------|--------------|-------------|------------|-------|------------|------------|-----------|--------------------|
|      | MHz      | dB/m         | dB          | dB         | dBuV  | dBuV/m     | dBuV/m     | dB        |                    |
| 1    | 2314.214 | 32.38        | 4.09        | 34.37      | 45.04 | 47.14      | 54.00      | -6.86     | Horizontal Average |
| 2    | 2362.862 | 32.48        | 4.21        | 34.38      | 43.24 | 45.55      | 54.00      | -8.45     | Horizontal Average |
| 3    | 2390.000 | 32.53        | 4.28        | 34.39      | 43.03 | 45.45      | 54.00      | -8.55     | Horizontal Average |
| 4 pp | 2410.817 | 32.58        | 4.33        | 34.39      | 87.49 | 90.01      | 54.00      | 36.01     | Horizontal Average |

|                      |                      |                        |              |
|----------------------|----------------------|------------------------|--------------|
| Worse case mode:     | GFSK                 |                        |              |
| Frequency: 2390.0MHz | Test channel: Lowest | Polarization: Vertical | Remark: Peak |



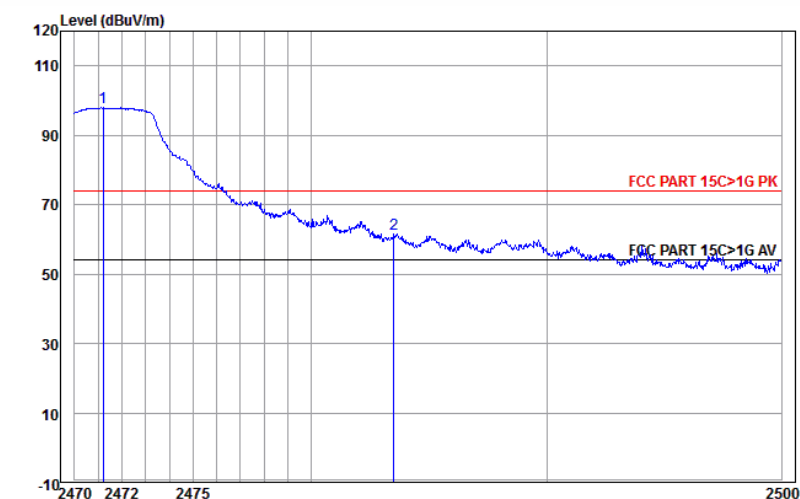
|      | Ant Freq | Cable Factor | Preamp Loss | Read Level | Level | Limit  | Over Limit | Pol/Phase | Remark   |
|------|----------|--------------|-------------|------------|-------|--------|------------|-----------|----------|
|      | MHz      | dB/m         | dB          | dB         | dBuV  | dBuV/m | dBuV/m     | dB        |          |
| 1    | 2315.449 | 32.39        | 4.09        | 34.37      | 56.78 | 58.89  | 74.00      | -15.11    | Vertical |
| 2    | 2362.337 | 32.48        | 4.21        | 34.38      | 55.87 | 58.18  | 74.00      | -15.82    | Vertical |
| 3    | 2390.000 | 32.53        | 4.28        | 34.39      | 54.92 | 57.34  | 74.00      | -16.66    | Vertical |
| 4 pp | 2410.388 | 32.57        | 4.33        | 34.39      | 95.25 | 97.76  | 74.00      | 23.76     | Vertical |

|                      |                      |                        |                 |
|----------------------|----------------------|------------------------|-----------------|
| Worse case mode:     | GFSK                 |                        |                 |
| Frequency: 2390.0MHz | Test channel: Lowest | Polarization: Vertical | Remark: Average |



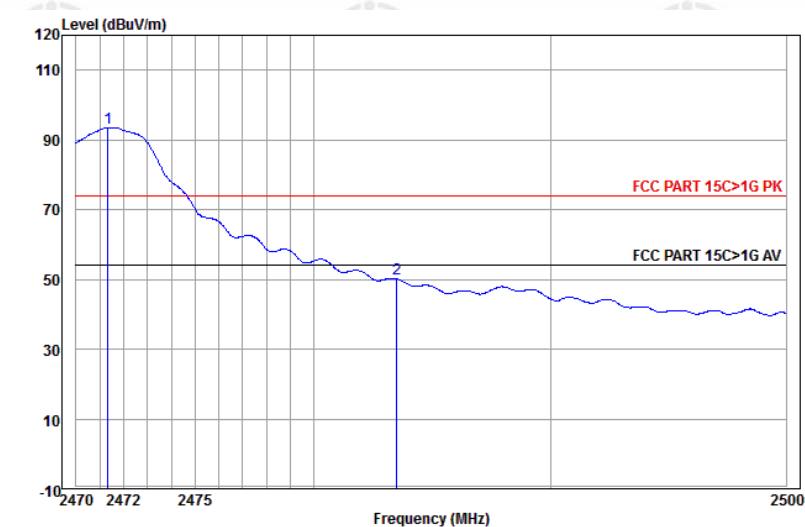
|      | Ant Freq | Cable Factor | Preamp Loss | Read Level | Level | Limit  | Over Limit | Pol/Phase | Remark           |
|------|----------|--------------|-------------|------------|-------|--------|------------|-----------|------------------|
|      | MHz      | dB/m         | dB          | dB         | dBuV  | dBuV/m | dBuV/m     | dB        |                  |
| 1    | 2314.214 | 32.38        | 4.09        | 34.37      | 43.14 | 45.24  | 54.00      | -8.76     | Vertical Average |
| 2    | 2362.862 | 32.48        | 4.21        | 34.38      | 43.55 | 45.86  | 54.00      | -8.14     | Vertical Average |
| 3    | 2390.000 | 32.53        | 4.28        | 34.39      | 42.06 | 44.48  | 54.00      | -9.52     | Vertical Average |
| 4 pp | 2410.817 | 32.58        | 4.33        | 34.39      | 87.00 | 89.52  | 54.00      | 35.52     | Vertical Average |

|                      |                       |                          |              |
|----------------------|-----------------------|--------------------------|--------------|
| Worse case mode:     | GFSK                  |                          |              |
| Frequency: 2483.5MHz | Test channel: Highest | Polarization: Horizontal | Remark: Peak |



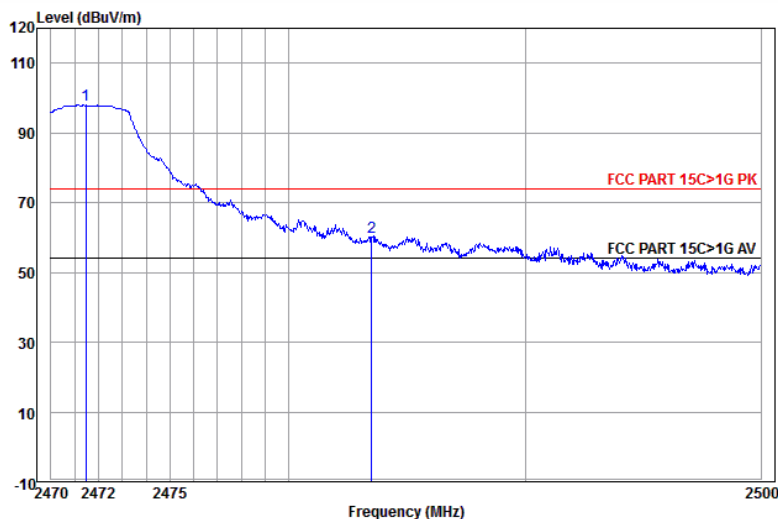
|      | Ant Freq | Cable Factor | Preamp Loss | Read Level | Read Level | Limit Line | Over Limit | Pol/Phase | Remark     |
|------|----------|--------------|-------------|------------|------------|------------|------------|-----------|------------|
|      | MHz      | dB/m         | dB          | dB         | dBuV       | dBuV/m     | dBuV/m     | dB        |            |
| 1 pp | 2471.193 | 32.69        | 4.48        | 34.40      | 95.21      | 97.98      | 74.00      | 23.98     | Horizontal |
| 2    | 2483.500 | 32.71        | 4.51        | 34.41      | 58.62      | 61.43      | 74.00      | -12.57    | Horizontal |

|                      |                       |                          |                 |
|----------------------|-----------------------|--------------------------|-----------------|
| Worse case mode:     | GFSK                  |                          |                 |
| Frequency: 2483.5MHz | Test channel: Highest | Polarization: Horizontal | Remark: Average |



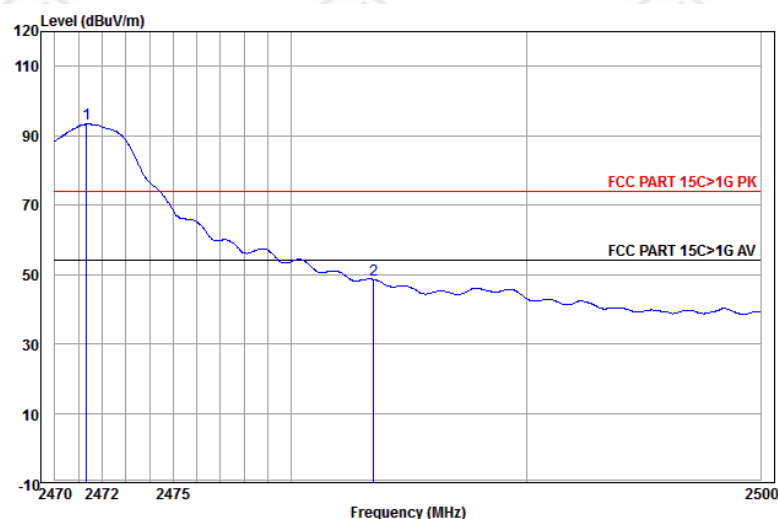
|      | Ant Freq | Cable Factor | Preamp Loss | Read Level | Read Level | Limit Line | Over Limit | Pol/Phase | Remark             |
|------|----------|--------------|-------------|------------|------------|------------|------------|-----------|--------------------|
|      | MHz      | dB/m         | dB          | dB         | dBuV       | dBuV/m     | dBuV/m     | dB        |                    |
| 1 pp | 2471.342 | 32.69        | 4.48        | 34.40      | 90.72      | 93.49      | 54.00      | 39.49     | Horizontal Average |
| 2    | 2483.500 | 32.71        | 4.51        | 34.41      | 47.25      | 50.06      | 54.00      | -3.94     | Horizontal Average |

|                      |                       |                        |              |
|----------------------|-----------------------|------------------------|--------------|
| Worse case mode:     | GFSK                  |                        |              |
| Frequency: 2483.5MHz | Test channel: Highest | Polarization: Vertical | Remark: Peak |



|      | Ant<br>Freq | Cable<br>Factor | Preamp<br>Loss | Preamp<br>Factor | Read<br>Level | Read<br>Level | Limit<br>Line | Over<br>Limit | Pol/Phase | Remark |
|------|-------------|-----------------|----------------|------------------|---------------|---------------|---------------|---------------|-----------|--------|
|      | MHz         | dB/m            | dB             | dB               | dBuV          | dBuV/m        | dBuV/m        | dB            |           |        |
| 1 pp | 2471.462    | 32.69           | 4.48           | 34.40            | 95.17         | 97.94         | 74.00         | 23.94         | Vertical  |        |
| 2    | 2483.500    | 32.71           | 4.51           | 34.41            | 57.34         | 60.15         | 74.00         | -13.85        | Vertical  |        |

|                      |                       |                        |                 |
|----------------------|-----------------------|------------------------|-----------------|
| Worse case mode:     | GFSK                  |                        |                 |
| Frequency: 2483.5MHz | Test channel: Highest | Polarization: Vertical | Remark: Average |



|      | Ant<br>Freq | Cable<br>Factor | Preamp<br>Loss | Preamp<br>Factor | Read<br>Level | Read<br>Level | Limit<br>Line | Over<br>Limit | Pol/Phase | Remark  |
|------|-------------|-----------------|----------------|------------------|---------------|---------------|---------------|---------------|-----------|---------|
|      | MHz         | dB/m            | dB             | dB               | dBuV          | dBuV/m        | dBuV/m        | dB            |           |         |
| 1 pp | 2471.342    | 32.69           | 4.48           | 34.40            | 90.54         | 93.31         | 54.00         | 39.31         | Vertical  | Average |
| 2    | 2483.500    | 32.71           | 4.51           | 34.41            | 45.76         | 48.57         | 54.00         | -5.43         | Vertical  | Average |

Note:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Pre-amplifier Factor - Antenna Factor - Cable Factor

## Appendix L): Radiated Spurious Emissions

Receiver Setup:

| Frequency         | Detector   | RBW     | VBW    | Remark     |
|-------------------|------------|---------|--------|------------|
| 0.009MHz-0.090MHz | Peak       | 10kHz   | 30kHz  | Peak       |
| 0.009MHz-0.090MHz | Average    | 10kHz   | 30kHz  | Average    |
| 0.090MHz-0.110MHz | Quasi-peak | 10kHz   | 30kHz  | Quasi-peak |
| 0.110MHz-0.490MHz | Peak       | 10kHz   | 30kHz  | Peak       |
| 0.110MHz-0.490MHz | Average    | 10kHz   | 30kHz  | Average    |
| 0.490MHz -30MHz   | Quasi-peak | 10kHz   | 30kHz  | Quasi-peak |
| 30MHz-1GHz        | Quasi-peak | 120 kHz | 300kHz | Quasi-peak |
| Above 1GHz        | Peak       | 1MHz    | 3MHz   | Peak       |
|                   | Peak       | 1MHz    | 10Hz   | Average    |

Test Procedure:

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. 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.

d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. 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.

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).

h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.

j. Repeat above procedures until all frequencies measured was complete.

Limit:

| Frequency         | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark     | Measurement distance (m) |
|-------------------|----------------------------------|----------------|------------|--------------------------|
| 0.009MHz-0.490MHz | 2400/F(kHz)                      | -              | -          | 300                      |
| 0.490MHz-1.705MHz | 24000/F(kHz)                     | -              | -          | 30                       |
| 1.705MHz-30MHz    | 30                               | -              | -          | 30                       |
| 30MHz-88MHz       | 100                              | 40.0           | Quasi-peak | 3                        |
| 88MHz-216MHz      | 150                              | 43.5           | Quasi-peak | 3                        |
| 216MHz-960MHz     | 200                              | 46.0           | Quasi-peak | 3                        |
| 960MHz-1GHz       | 500                              | 54.0           | Quasi-peak | 3                        |
| Above 1GHz        | 500                              | 54.0           | Average    | 3                        |

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

# **Radiated Spurious Emissions test Data:** **Radiated Emission below 30MHz**

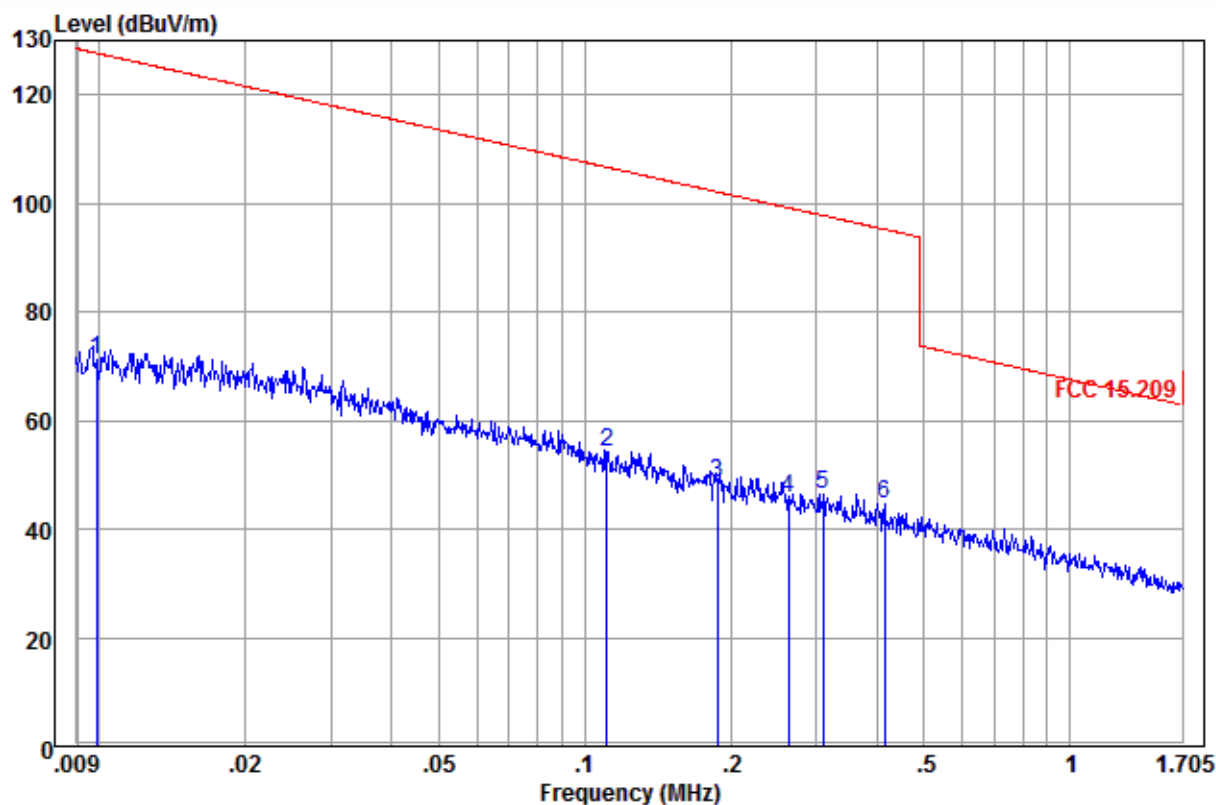
9KHz-1.705MHz

Worse case mode:GFSK

Test Frequency: Lowest

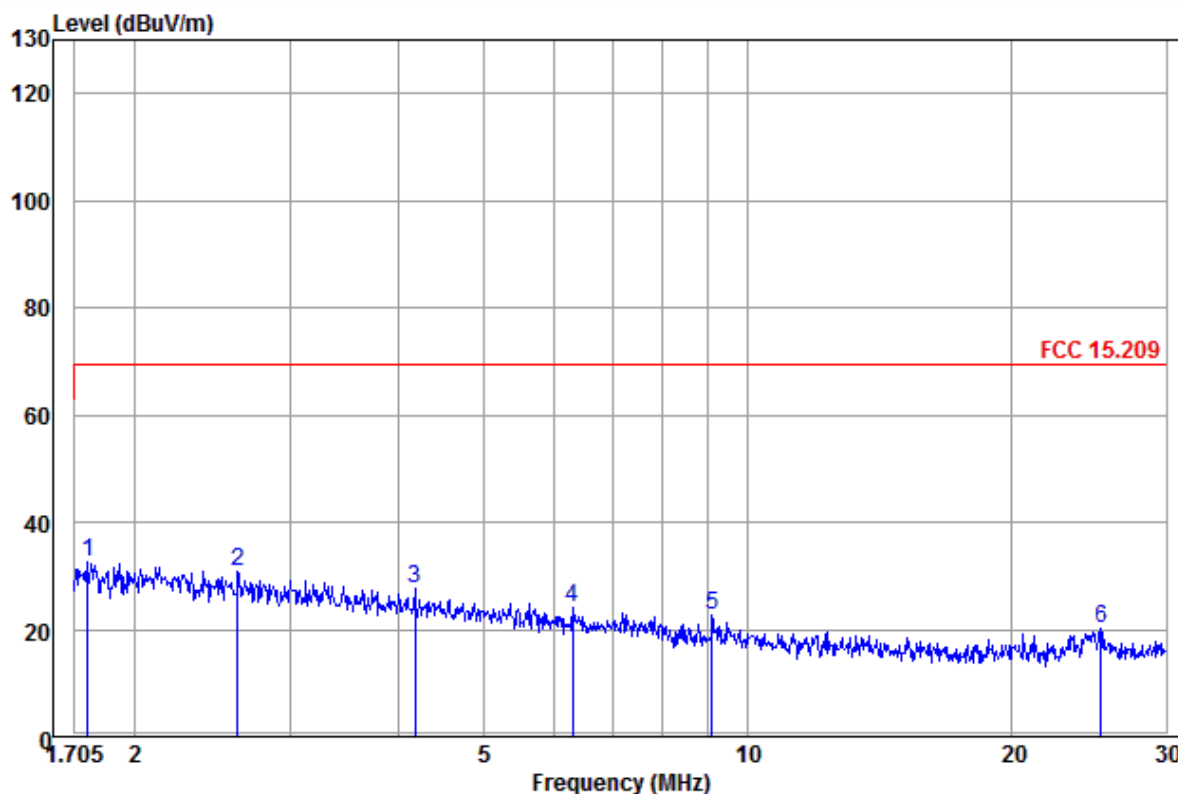
Transmitting

Polarization: X



|      | Ant Freq | Cable Factor | Read Loss | Level | Level  | Limit Line | Over Limit | Pol/Phase | Remark |
|------|----------|--------------|-----------|-------|--------|------------|------------|-----------|--------|
|      | MHz      | dB/m         | dB        | dBuV  | dBuV/m | dBuV/m     | dB         |           |        |
| 1    | 0.010    | 18.90        | 0.02      | 52.12 | 71.04  | 127.68     | -56.64     | Vertical  | Peak   |
| 2    | 0.112    | 11.40        | 0.11      | 42.74 | 54.25  | 106.65     | -52.40     | Vertical  | Peak   |
| 3    | 0.188    | 11.36        | 0.11      | 37.01 | 48.48  | 102.10     | -53.62     | Vertical  | Peak   |
| 4    | 0.264    | 11.30        | 0.11      | 34.46 | 45.87  | 99.18      | -53.31     | Vertical  | Peak   |
| 5    | 0.310    | 11.30        | 0.11      | 35.13 | 46.54  | 97.77      | -51.23     | Vertical  | Peak   |
| 6 pp | 0.416    | 11.30        | 0.12      | 33.24 | 44.66  | 95.22      | -50.56     | Vertical  | Peak   |

|                      |                        |              |                 |
|----------------------|------------------------|--------------|-----------------|
| 1.705MHz-30MHz       |                        |              |                 |
| Worse case mode:GFSK | Test Frequency: Lowest | Transmitting | Polarization: X |

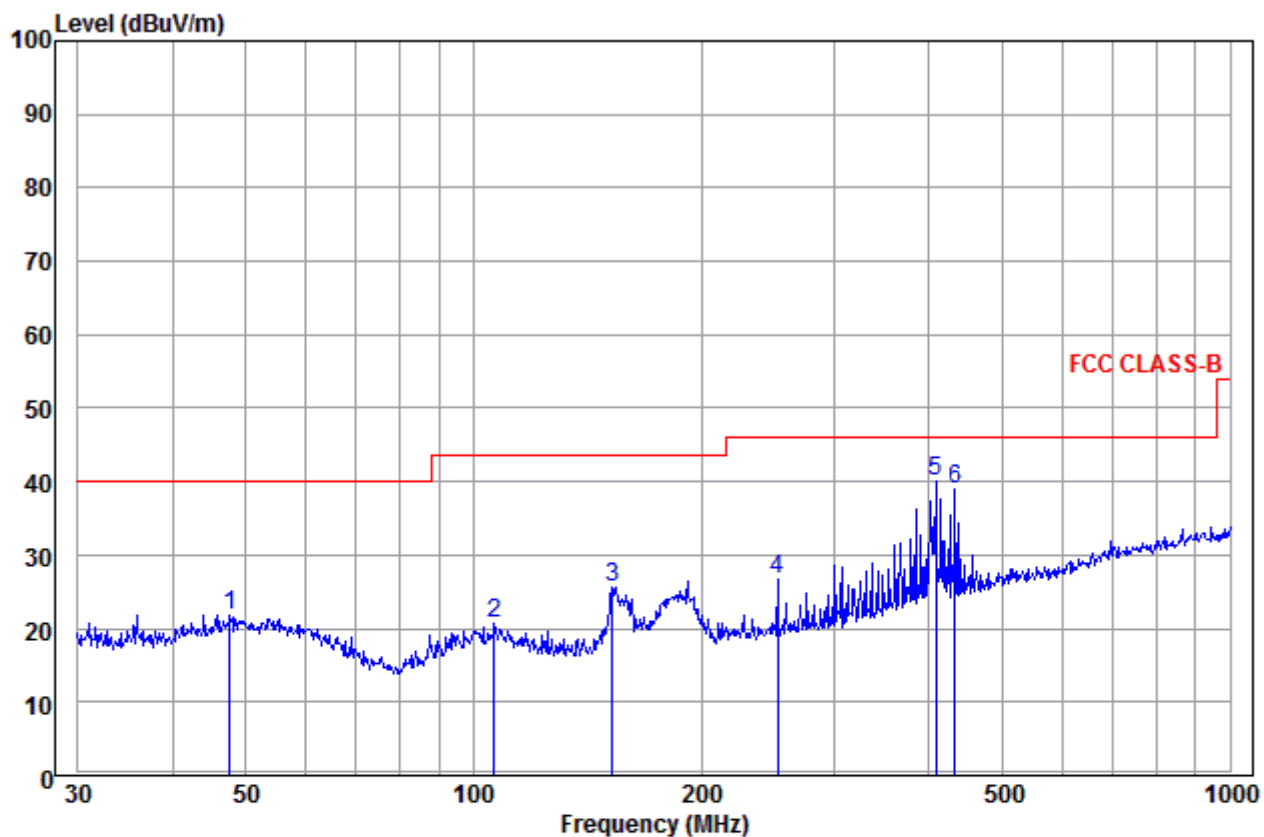


|      | Ant<br>Freq | Cable<br>Factor | Read<br>Loss | Level<br>Level | Limit<br>Level | Over<br>Limit | Pol/Phase | Remark      |
|------|-------------|-----------------|--------------|----------------|----------------|---------------|-----------|-------------|
|      | MHz         | dB/m            | dB           | dBuV           | dBuV/m         | dBuV/m        | dB        |             |
| 1 pp | 1.765       | 11.40           | 0.19         | 21.13          | 32.72          | 69.50         | -36.78    | Vertical QP |
| 2    | 2.614       | 11.47           | 0.17         | 19.05          | 30.69          | 69.50         | -38.81    | Vertical QP |
| 3    | 4.171       | 11.28           | 0.19         | 16.18          | 27.65          | 69.50         | -41.85    | Vertical QP |
| 4    | 6.304       | 11.10           | 0.31         | 12.82          | 24.23          | 69.50         | -45.27    | Vertical QP |
| 5    | 9.100       | 10.94           | 0.57         | 11.29          | 22.80          | 69.50         | -46.70    | Vertical QP |
| 6    | 25.258      | 9.43            | 1.02         | 9.78           | 20.23          | 69.50         | -49.27    | Vertical QP |

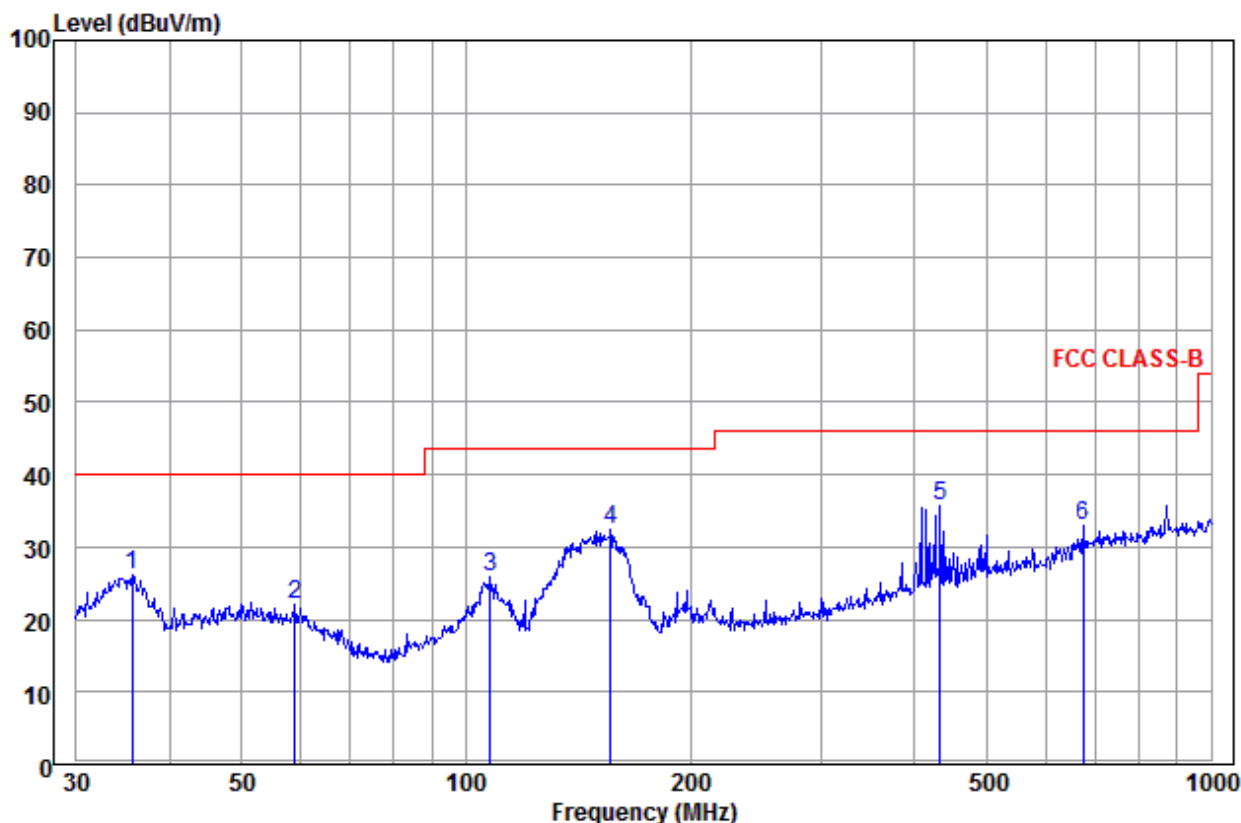
**Remark:** For 9kHz~30MHz test, The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case X axis with Adapter 1 is shown in the report. Adapter 1 and Adapter 2, lowest,middle,highest channel are tested, only show worst data in the report.

## Radiated Emission 30MHz-1GHz

Adapter 1: BLJ06W059055P1-U

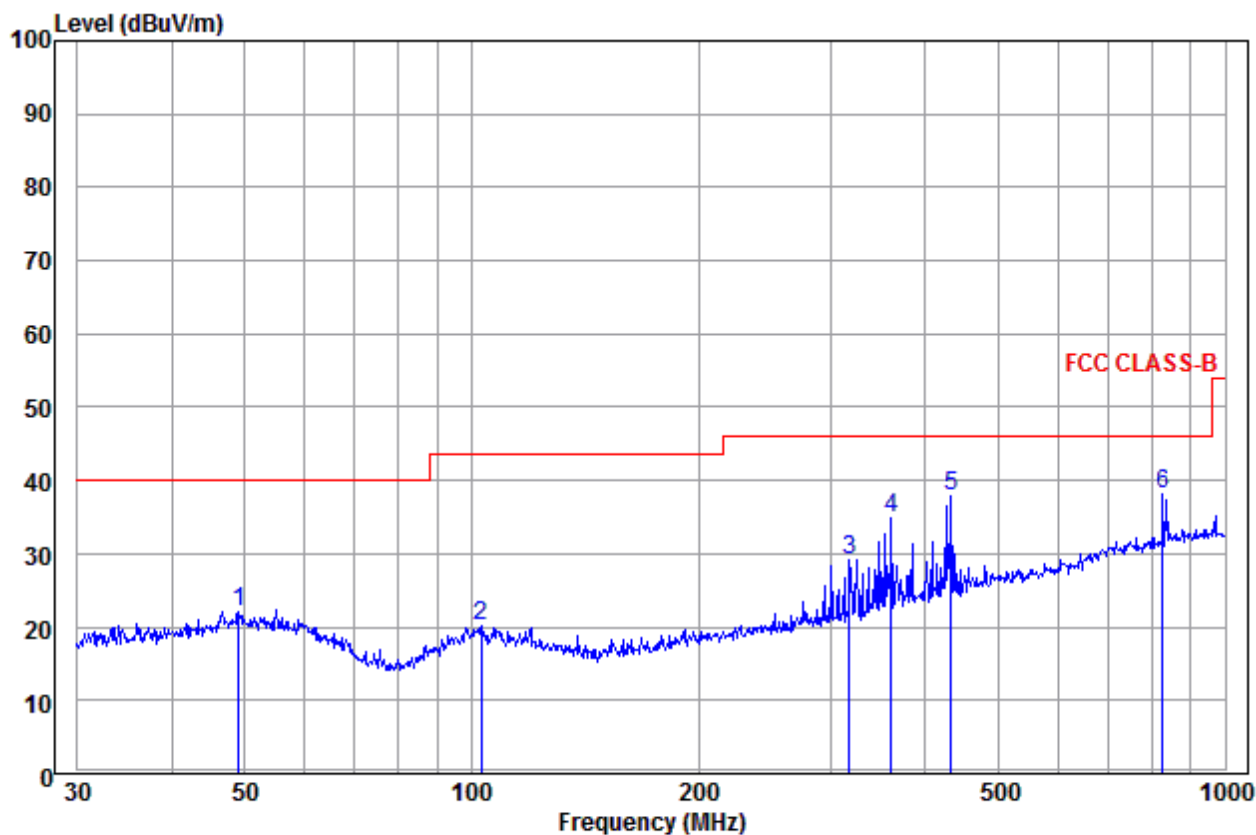


|      | Freq    | Ant Factor | Cable Loss | Read Level | Level  | Limit Line | Over Limit | Pol/Phase  | Remark |
|------|---------|------------|------------|------------|--------|------------|------------|------------|--------|
|      | MHz     | dB/m       | dB         | dBuV       | dBuV/m | dBuV/m     | dB         |            |        |
| 1    | 47.659  | 14.91      | 1.21       | 5.80       | 21.92  | 40.00      | -18.08     | Horizontal |        |
| 2    | 106.385 | 12.67      | 1.57       | 6.38       | 20.62  | 43.50      | -22.88     | Horizontal |        |
| 3    | 152.664 | 9.82       | 1.62       | 14.29      | 25.73  | 43.50      | -17.77     | Horizontal |        |
| 4    | 252.063 | 12.45      | 2.35       | 11.79      | 26.59  | 46.00      | -19.41     | Horizontal |        |
| 5 pp | 408.946 | 16.45      | 2.84       | 20.67      | 39.96  | 46.00      | -6.04      | Horizontal |        |
| 6    | 432.546 | 16.83      | 2.93       | 19.10      | 38.86  | 46.00      | -7.14      | Horizontal |        |

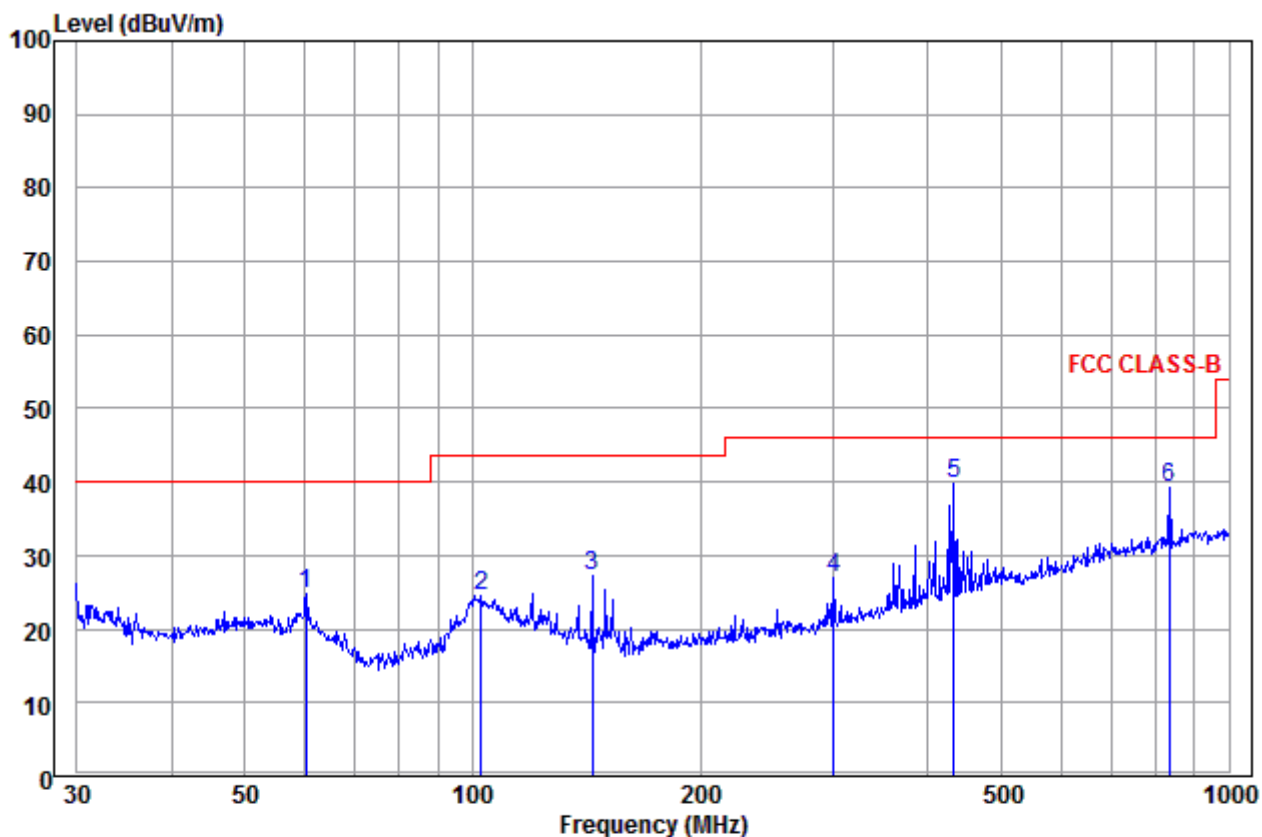


|      | Ant     | Cable | Read  | Limit  | Over   |           |                 |
|------|---------|-------|-------|--------|--------|-----------|-----------------|
| Freq | Factor  | Loss  | Level | Line   | Limit  | Pol/Phase | Remark          |
| MHz  | dB/m    | dB    | dBuV  | dBuV/m | dBuV/m | dB        |                 |
| 1    | 35.624  | 13.52 | 0.80  | 11.93  | 26.25  | 40.00     | -13.75 Vertical |
| 2    | 59.025  | 13.92 | 1.43  | 6.76   | 22.11  | 40.00     | -17.89 Vertical |
| 3    | 107.888 | 12.54 | 1.57  | 11.74  | 25.85  | 43.50     | -17.65 Vertical |
| 4    | 156.458 | 9.98  | 1.67  | 20.67  | 32.32  | 43.50     | -11.18 Vertical |
| 5 pp | 432.546 | 16.83 | 2.93  | 16.05  | 35.81  | 46.00     | -10.19 Vertical |
| 6    | 672.845 | 20.11 | 3.72  | 9.10   | 32.93  | 46.00     | -13.07 Vertical |

Adapter 2: CS3B059055FU



|      | Freq    | Ant Factor | Cable Loss | Read Level | Level  | Limit Line | Over Limit | Pol/Phase  | Remark |
|------|---------|------------|------------|------------|--------|------------|------------|------------|--------|
|      | MHz     | dB/m       | dB         | dBuV       | dBuV/m | dBuV/m     | dB         |            |        |
| 1    | 49.014  | 15.02      | 1.32       | 5.79       | 22.13  | 40.00      | -17.87     | Horizontal |        |
| 2    | 103.080 | 12.94      | 1.57       | 5.57       | 20.08  | 43.50      | -23.42     | Horizontal |        |
| 3    | 317.701 | 13.98      | 2.50       | 12.74      | 29.22  | 46.00      | -16.78     | Horizontal |        |
| 4    | 360.448 | 15.13      | 2.73       | 17.11      | 34.97  | 46.00      | -11.03     | Horizontal |        |
| 5    | 432.546 | 16.83      | 2.93       | 18.20      | 37.96  | 46.00      | -8.04      | Horizontal |        |
| 6 pp | 827.493 | 21.77      | 4.03       | 12.39      | 38.19  | 46.00      | -7.81      | Horizontal |        |



|      | Ant<br>Freq | Cable<br>Factor | Read<br>Loss | Level | Level  | Limit<br>Line | Over<br>Limit | Pol/Phase | Remark |
|------|-------------|-----------------|--------------|-------|--------|---------------|---------------|-----------|--------|
|      | MHz         | dB/m            | dB           | dBuV  | dBuV/m | dBuV/m        | dB            |           |        |
| 1    | 60.280      | 13.70           | 1.43         | 9.56  | 24.69  | 40.00         | -15.31        | Vertical  |        |
| 2    | 102.719     | 12.97           | 1.57         | 10.00 | 24.54  | 43.50         | -18.96        | Vertical  |        |
| 3    | 143.830     | 10.06           | 1.58         | 15.48 | 27.12  | 43.50         | -16.38        | Vertical  |        |
| 4    | 300.367     | 13.51           | 2.38         | 11.08 | 26.97  | 46.00         | -19.03        | Vertical  |        |
| 5 pp | 432.546     | 16.83           | 2.93         | 20.02 | 39.78  | 46.00         | -6.22         | Vertical  |        |
| 6    | 833.317     | 21.80           | 4.07         | 13.41 | 39.28  | 46.00         | -6.72         | Vertical  |        |

**Transmitter Emission above 1GHz**
**Adapter 1: BLJ06W059055P1-U**

| Worse case mode: |                       | GFSK            |                        | Test channel:     |                | Lowest              | Remark: Peak    |        |                 |
|------------------|-----------------------|-----------------|------------------------|-------------------|----------------|---------------------|-----------------|--------|-----------------|
| Frequency (MHz)  | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1198.095         | 30.22                 | 2.51            | 34.97                  | 48.27             | 46.03          | 74.00               | -27.97          | Pass   | H               |
| 1450.122         | 30.77                 | 2.78            | 34.72                  | 47.35             | 46.18          | 74.00               | -27.82          | Pass   | H               |
| 1842.139         | 31.46                 | 3.11            | 34.41                  | 47.46             | 47.62          | 74.00               | -26.38          | Pass   | H               |
| 4821.750         | 34.73                 | 5.11            | 34.35                  | 41.75             | 47.24          | 74.00               | -26.76          | Pass   | H               |
| 7232.625         | 36.42                 | 6.69            | 34.90                  | 40.04             | 48.25          | 74.00               | -25.75          | Pass   | H               |
| 9643.500         | 37.92                 | 7.70            | 35.07                  | 39.06             | 49.61          | 74.00               | -24.39          | Pass   | H               |
| 1204.210         | 30.24                 | 2.52            | 34.96                  | 48.25             | 46.05          | 74.00               | -27.95          | Pass   | V               |
| 1424.511         | 30.72                 | 2.76            | 34.74                  | 47.48             | 46.22          | 74.00               | -27.78          | Pass   | V               |
| 1630.264         | 31.11                 | 2.94            | 34.57                  | 46.18             | 45.66          | 74.00               | -28.34          | Pass   | V               |
| 4821.750         | 34.73                 | 5.11            | 34.35                  | 40.62             | 46.11          | 74.00               | -27.89          | Pass   | V               |
| 7232.625         | 36.42                 | 6.69            | 34.90                  | 38.55             | 46.76          | 74.00               | -27.24          | Pass   | V               |
| 9643.500         | 37.92                 | 7.70            | 35.07                  | 37.57             | 48.12          | 74.00               | -25.88          | Pass   | V               |

| Worse case mode: |                       | GFSK            |                        | Test channel:     |                | Middle              | Remark: Peak    |        |                 |
|------------------|-----------------------|-----------------|------------------------|-------------------|----------------|---------------------|-----------------|--------|-----------------|
| Frequency (MHz)  | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1201.149         | 30.23                 | 2.52            | 34.96                  | 48.52             | 46.31          | 74.00               | -27.69          | Pass   | H               |
| 1634.419         | 31.12                 | 2.95            | 34.56                  | 46.67             | 46.18          | 74.00               | -27.82          | Pass   | H               |
| 1856.261         | 31.48                 | 3.13            | 34.40                  | 47.04             | 47.25          | 74.00               | -26.75          | Pass   | H               |
| 4882.500         | 34.85                 | 5.08            | 34.33                  | 42.76             | 48.36          | 74.00               | -25.64          | Pass   | H               |
| 7323.750         | 36.43                 | 6.77            | 34.90                  | 39.61             | 47.91          | 74.00               | -26.09          | Pass   | H               |
| 9765.000         | 38.05                 | 7.60            | 35.05                  | 37.87             | 48.47          | 74.00               | -25.53          | Pass   | H               |
| 1198.095         | 30.22                 | 2.51            | 34.97                  | 48.26             | 46.02          | 74.00               | -27.98          | Pass   | V               |
| 1659.574         | 31.16                 | 2.97            | 34.54                  | 46.57             | 46.16          | 74.00               | -27.84          | Pass   | V               |
| 2081.550         | 31.89                 | 3.47            | 34.32                  | 46.81             | 47.85          | 74.00               | -26.15          | Pass   | V               |
| 4882.500         | 34.85                 | 5.08            | 34.33                  | 41.26             | 46.86          | 74.00               | -27.14          | Pass   | V               |
| 7323.750         | 36.43                 | 6.77            | 34.90                  | 38.35             | 46.65          | 74.00               | -27.35          | Pass   | V               |
| 9765.000         | 38.05                 | 7.60            | 35.05                  | 37.80             | 48.40          | 74.00               | -25.60          | Pass   | V               |

| Worse case mode: |                       | GFSK            |                        | Test channel:     |                | Highest             | Remark: Peak    |        |                 |
|------------------|-----------------------|-----------------|------------------------|-------------------|----------------|---------------------|-----------------|--------|-----------------|
| Frequency (MHz)  | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1216.534         | 30.27                 | 2.53            | 34.95                  | 47.69             | 45.54          | 74.00               | -28.46          | Pass   | H               |
| 1621.985         | 31.10                 | 2.94            | 34.57                  | 47.76             | 47.23          | 74.00               | -26.77          | Pass   | H               |
| 1851.542         | 31.48                 | 3.12            | 34.40                  | 47.03             | 47.23          | 74.00               | -26.77          | Pass   | H               |
| 4943.250         | 34.98                 | 5.06            | 34.32                  | 41.90             | 47.62          | 74.00               | -26.38          | Pass   | H               |
| 7414.875         | 36.44                 | 6.85            | 34.90                  | 38.89             | 47.28          | 74.00               | -26.72          | Pass   | H               |
| 9886.500         | 38.18                 | 7.50            | 35.02                  | 38.41             | 49.07          | 74.00               | -24.93          | Pass   | H               |
| 1213.441         | 30.26                 | 2.53            | 34.95                  | 47.70             | 45.54          | 74.00               | -28.46          | Pass   | V               |
| 1464.963         | 30.80                 | 2.79            | 34.70                  | 47.38             | 46.27          | 74.00               | -27.73          | Pass   | V               |
| 1865.735         | 31.50                 | 3.13            | 34.39                  | 46.99             | 47.23          | 74.00               | -26.77          | Pass   | V               |
| 4943.250         | 34.98                 | 5.06            | 34.32                  | 42.32             | 48.04          | 74.00               | -25.96          | Pass   | V               |
| 7414.875         | 36.44                 | 6.85            | 34.90                  | 38.72             | 47.11          | 74.00               | -26.89          | Pass   | V               |
| 9886.500         | 38.18                 | 7.50            | 35.02                  | 38.43             | 49.09          | 74.00               | -24.91          | Pass   | V               |

**Adapter 2: CS3B059055FU**

| Worse case mode: |                       | GFSK            |                        | Test channel:     |                | Lowest              | Remark: Peak    |        |                 |
|------------------|-----------------------|-----------------|------------------------|-------------------|----------------|---------------------|-----------------|--------|-----------------|
| Frequency (MHz)  | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1204.210         | 30.24                 | 2.52            | 34.96                  | 47.89             | 45.69          | 74.00               | -28.31          | Pass   | H               |
| 1424.511         | 30.72                 | 2.76            | 34.74                  | 46.74             | 45.48          | 74.00               | -28.52          | Pass   | H               |
| 1663.803         | 31.17                 | 2.97            | 34.54                  | 47.08             | 46.68          | 74.00               | -27.32          | Pass   | H               |
| 4821.750         | 34.73                 | 5.11            | 34.35                  | 42.28             | 47.77          | 74.00               | -26.23          | Pass   | H               |
| 7232.625         | 36.42                 | 6.69            | 34.90                  | 39.67             | 47.88          | 74.00               | -26.12          | Pass   | H               |
| 9643.500         | 37.92                 | 7.70            | 35.07                  | 37.98             | 48.53          | 74.00               | -25.47          | Pass   | H               |
| 1204.210         | 30.24                 | 2.52            | 34.96                  | 48.26             | 46.06          | 74.00               | -27.94          | Pass   | V               |
| 1392.247         | 30.65                 | 2.72            | 34.77                  | 46.92             | 45.52          | 74.00               | -28.48          | Pass   | V               |
| 1642.761         | 31.13                 | 2.95            | 34.56                  | 47.38             | 46.90          | 74.00               | -27.10          | Pass   | V               |
| 4821.750         | 34.73                 | 5.11            | 34.35                  | 42.34             | 47.83          | 74.00               | -26.17          | Pass   | V               |
| 7232.625         | 36.42                 | 6.69            | 34.90                  | 40.89             | 49.10          | 74.00               | -24.90          | Pass   | V               |
| 9643.500         | 37.92                 | 7.70            | 35.07                  | 38.45             | 49.00          | 74.00               | -25.00          | Pass   | V               |

| Worse case mode: |                       | GFSK            |                        | Test channel:     |                | Middle              | Remark: Peak    |        |                 |
|------------------|-----------------------|-----------------|------------------------|-------------------|----------------|---------------------|-----------------|--------|-----------------|
| Frequency (MHz)  | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1204.210         | 30.24                 | 2.52            | 34.96                  | 48.46             | 46.26          | 74.00               | -27.74          | Pass   | H               |
| 1410.080         | 30.69                 | 2.74            | 34.75                  | 46.98             | 45.66          | 74.00               | -28.34          | Pass   | H               |
| 1651.146         | 31.15                 | 2.96            | 34.55                  | 46.72             | 46.28          | 74.00               | -27.72          | Pass   | H               |
| 4882.500         | 34.85                 | 5.08            | 34.33                  | 41.43             | 47.03          | 74.00               | -26.97          | Pass   | H               |
| 7323.750         | 36.43                 | 6.77            | 34.90                  | 38.76             | 47.06          | 74.00               | -26.94          | Pass   | H               |
| 9765.000         | 38.05                 | 7.60            | 35.05                  | 37.64             | 48.24          | 74.00               | -25.76          | Pass   | H               |
| 1222.743         | 30.28                 | 2.54            | 34.94                  | 47.66             | 45.54          | 74.00               | -28.46          | Pass   | V               |
| 1642.761         | 31.13                 | 2.95            | 34.56                  | 46.95             | 46.47          | 74.00               | -27.53          | Pass   | V               |
| 2070.980         | 31.86                 | 3.44            | 34.32                  | 46.59             | 47.57          | 74.00               | -26.43          | Pass   | V               |
| 4882.500         | 34.85                 | 5.08            | 34.33                  | 41.41             | 47.01          | 74.00               | -26.99          | Pass   | V               |
| 7323.750         | 36.43                 | 6.77            | 34.90                  | 40.37             | 48.67          | 74.00               | -25.33          | Pass   | V               |
| 9765.000         | 38.05                 | 7.60            | 35.05                  | 38.04             | 48.64          | 74.00               | -25.36          | Pass   | V               |

| Worse case mode: |                       | GFSK            |                        | Test channel:     |                | Highest             | Remark: Peak    |        |                 |
|------------------|-----------------------|-----------------|------------------------|-------------------|----------------|---------------------|-----------------|--------|-----------------|
| Frequency (MHz)  | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Gain (dB) | Read Level (dBμV) | Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Result | Antenna Polaxis |
| 1188.980         | 30.20                 | 2.50            | 34.98                  | 48.38             | 46.10          | 74.00               | -27.90          | Pass   | H               |
| 1634.419         | 31.12                 | 2.95            | 34.56                  | 47.00             | 46.51          | 74.00               | -27.49          | Pass   | H               |
| 1851.542         | 31.48                 | 3.12            | 34.40                  | 47.00             | 47.20          | 74.00               | -26.80          | Pass   | H               |
| 4943.250         | 34.98                 | 5.06            | 34.32                  | 40.77             | 46.49          | 74.00               | -27.51          | Pass   | H               |
| 7414.875         | 36.44                 | 6.85            | 34.90                  | 40.14             | 48.53          | 74.00               | -25.47          | Pass   | H               |
| 9886.500         | 38.18                 | 7.50            | 35.02                  | 38.33             | 48.99          | 74.00               | -25.01          | Pass   | H               |
| 1207.279         | 30.24                 | 2.52            | 34.96                  | 48.03             | 45.83          | 74.00               | -28.17          | Pass   | V               |
| 1668.044         | 31.18                 | 2.98            | 34.54                  | 46.75             | 46.37          | 74.00               | -27.63          | Pass   | V               |
| 4943.250         | 34.98                 | 5.06            | 34.32                  | 40.95             | 46.67          | 74.00               | -27.33          | Pass   | V               |
| 5971.290         | 35.88                 | 7.37            | 34.30                  | 40.73             | 49.68          | 74.00               | -24.32          | Pass   | V               |
| 7414.875         | 36.44                 | 6.85            | 34.90                  | 38.90             | 47.29          | 74.00               | -26.71          | Pass   | V               |
| 9886.500         | 38.18                 | 7.50            | 35.02                  | 38.16             | 48.82          | 74.00               | -25.18          | Pass   | V               |

**Note:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

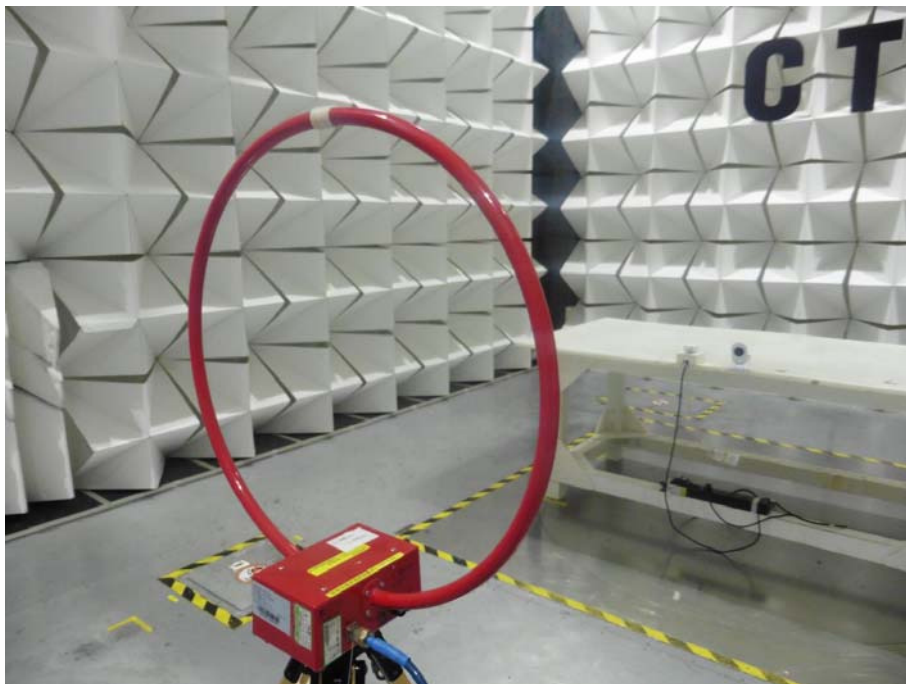
Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

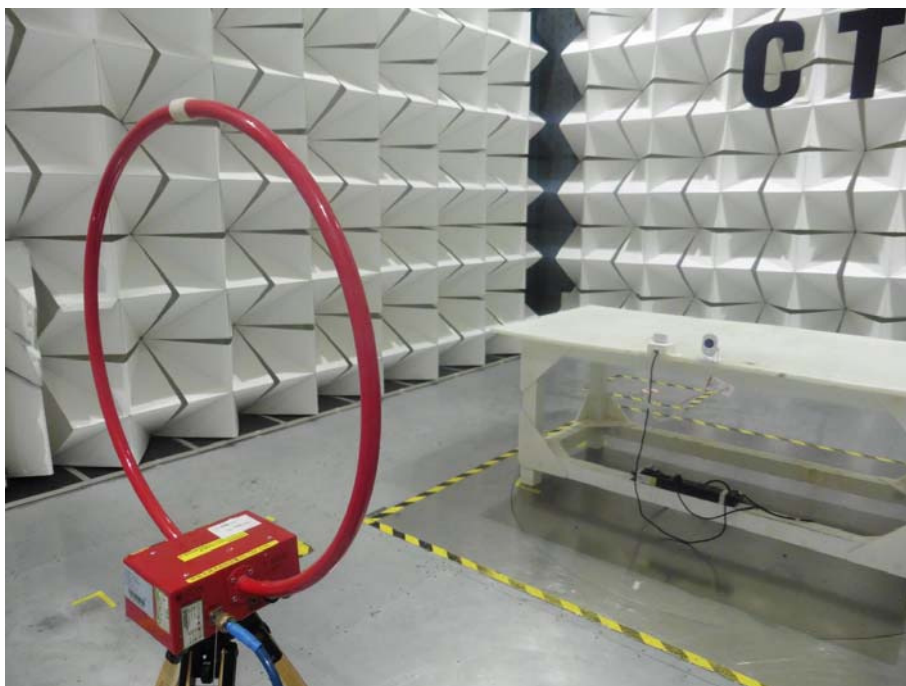
2) Scan from 9kHz to 25GHz, the disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

## PHOTOGRAPHS OF TEST SETUP

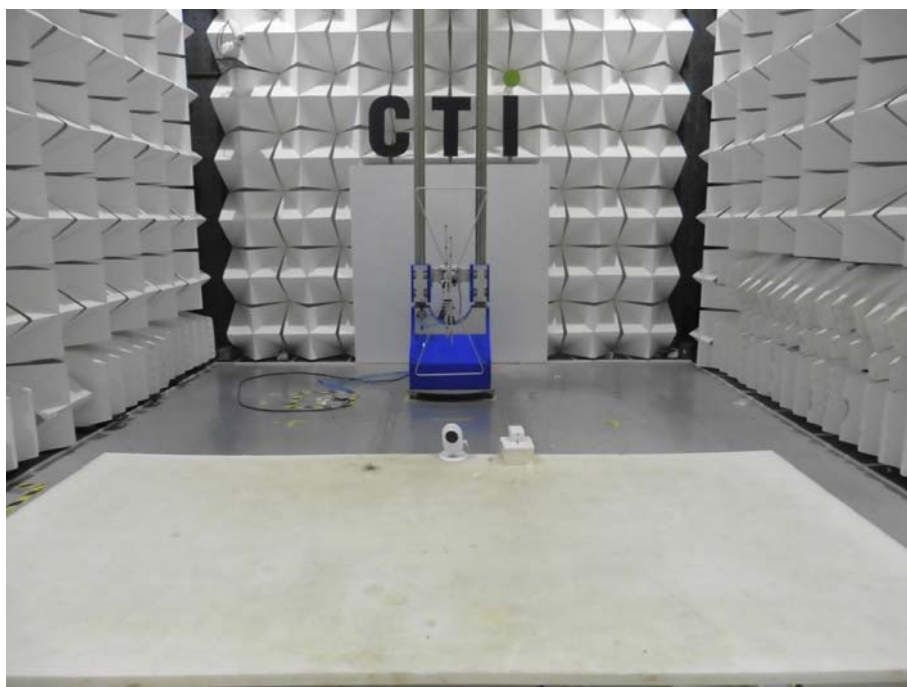
Test Model No.: DXR-6



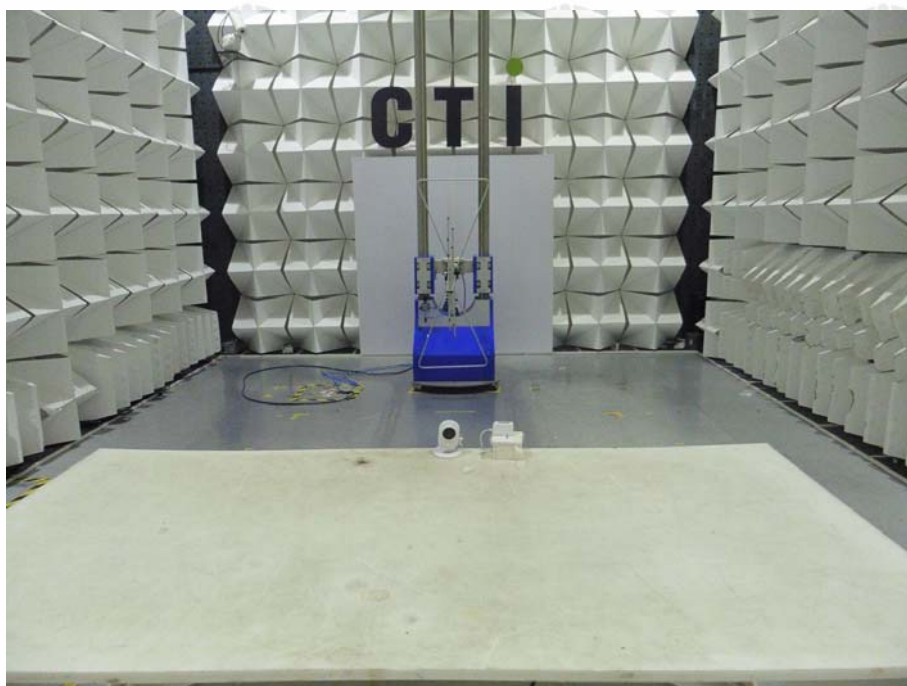
**Radiated spurious emission Test Setup for adapter 1(Below 30MHz)**



**Radiated spurious emission Test Setup for adapter 2(Below 30MHz)**



**Radiated spurious emission Test Setup for adapter 1(Below 1GHz)**



**Radiated spurious emission Test Setup for adapter 2(Below 1GHz)**



**Radiated spurious emission Test Setup for adapter 1(Above 1GHz)**



**Radiated spurious emission Test Setup for adapter 2(Above 1GHz)**



**Conducted Emission for adapter 1**



**Conducted Emission for adapter 2**

## PHOTOGRAPHS OF EUT Constructional Details

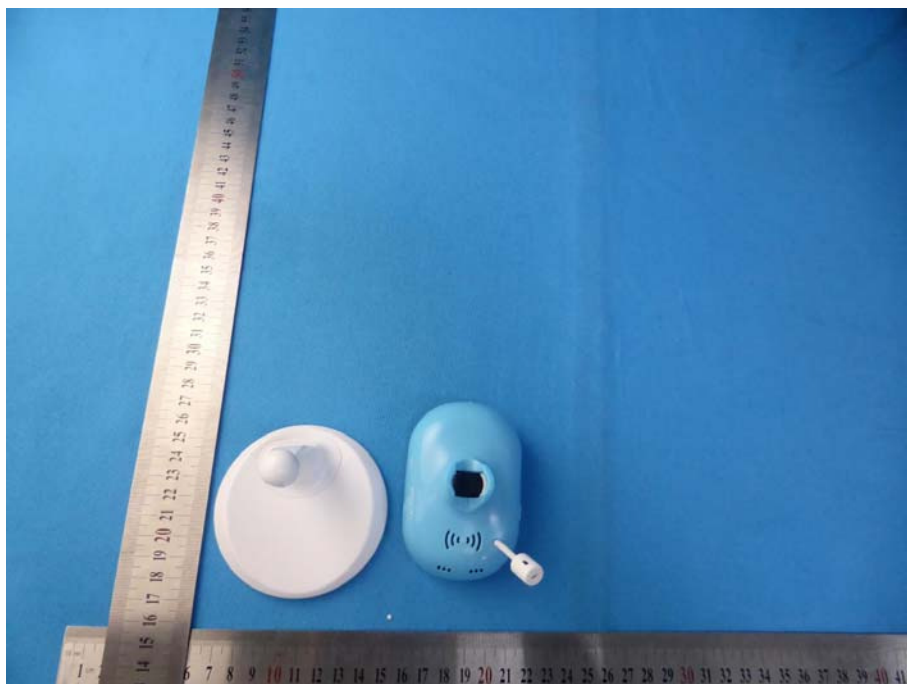
Test Model No.: DXR-6



View of Product-1



View of Product-2



View of Product-3



View of Product-4



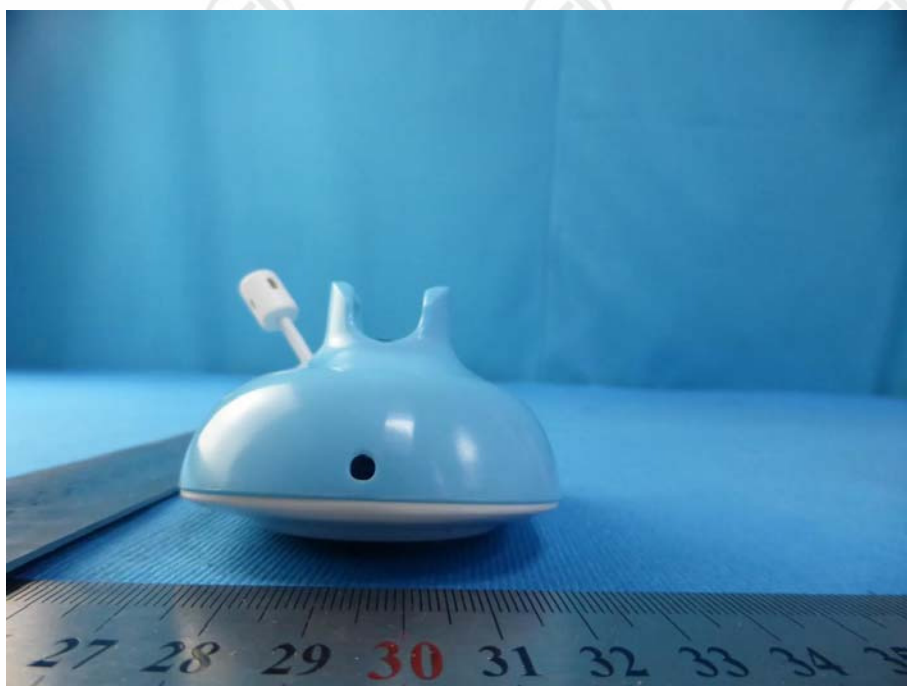
View of Product-5



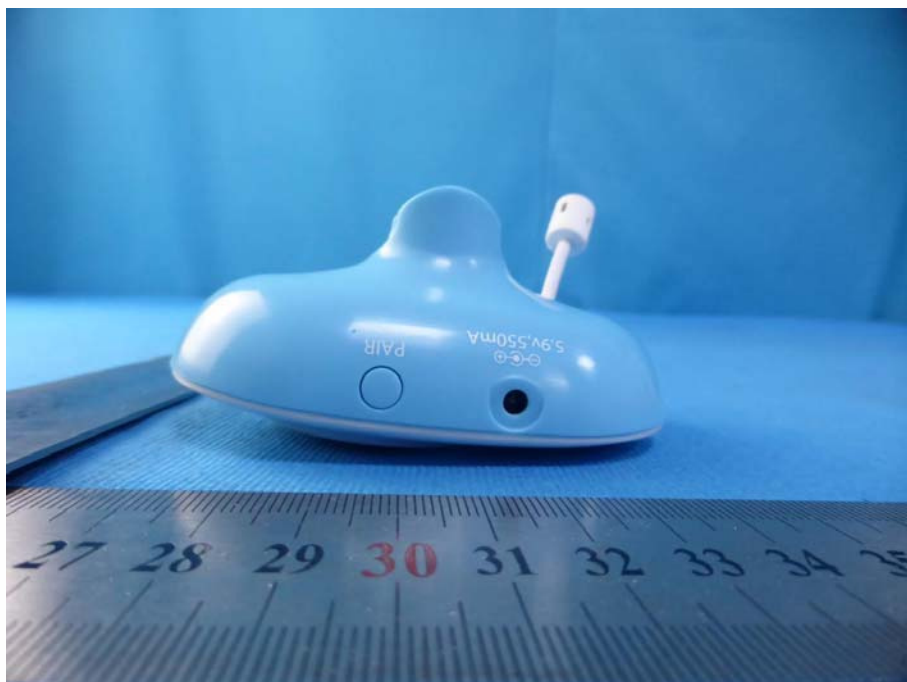
View of Product-6



View of Product-7



View of Product-8



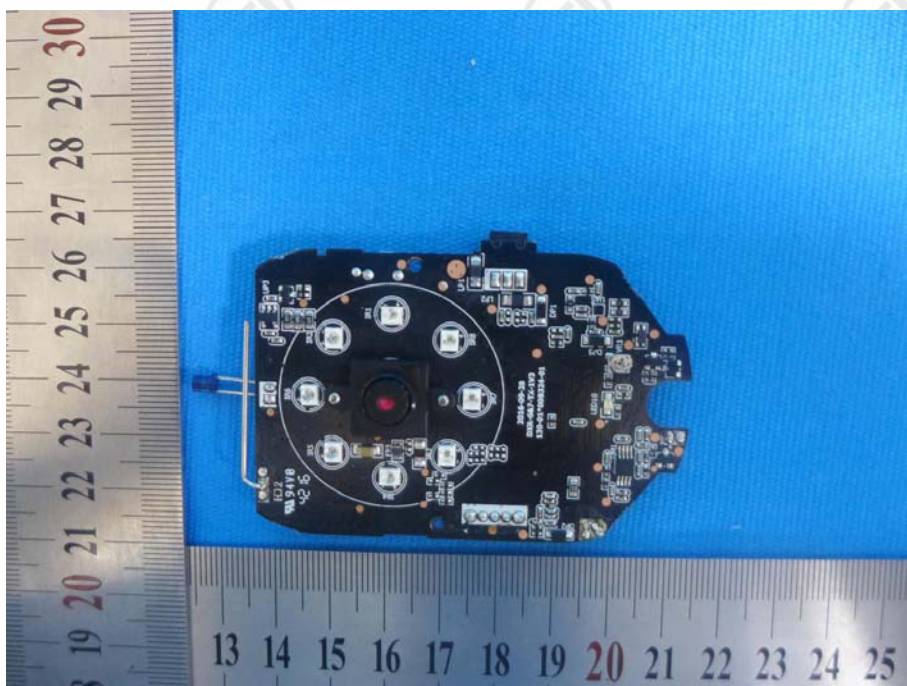
View of Product-9



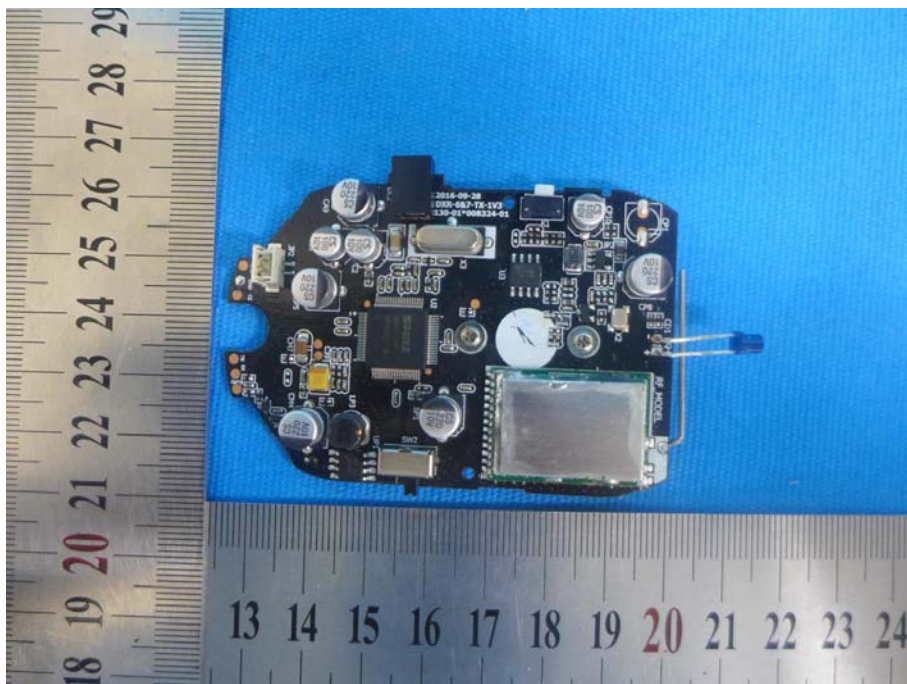
View of Product-10



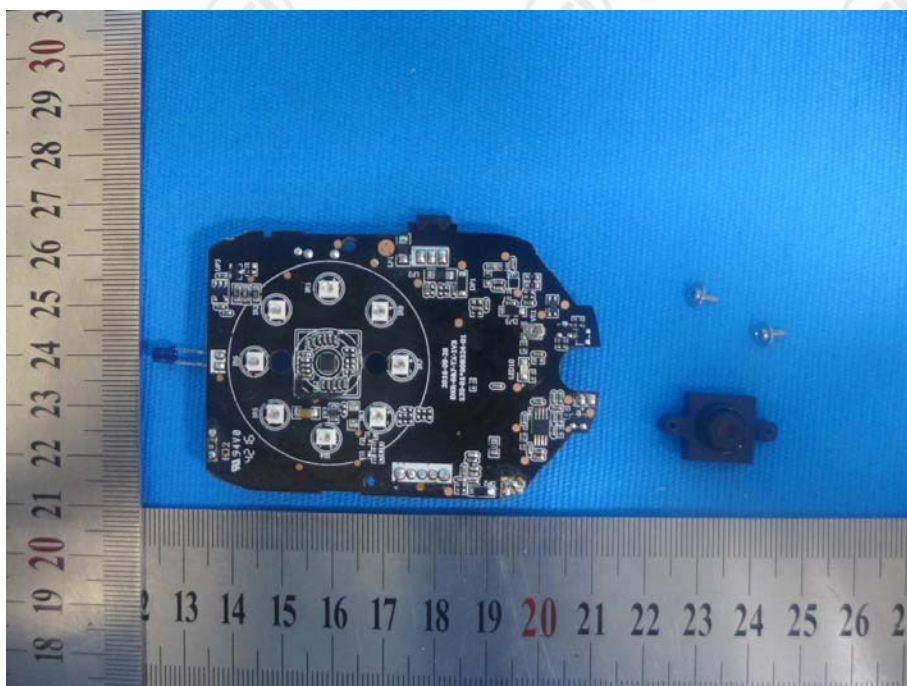
View of Product-11



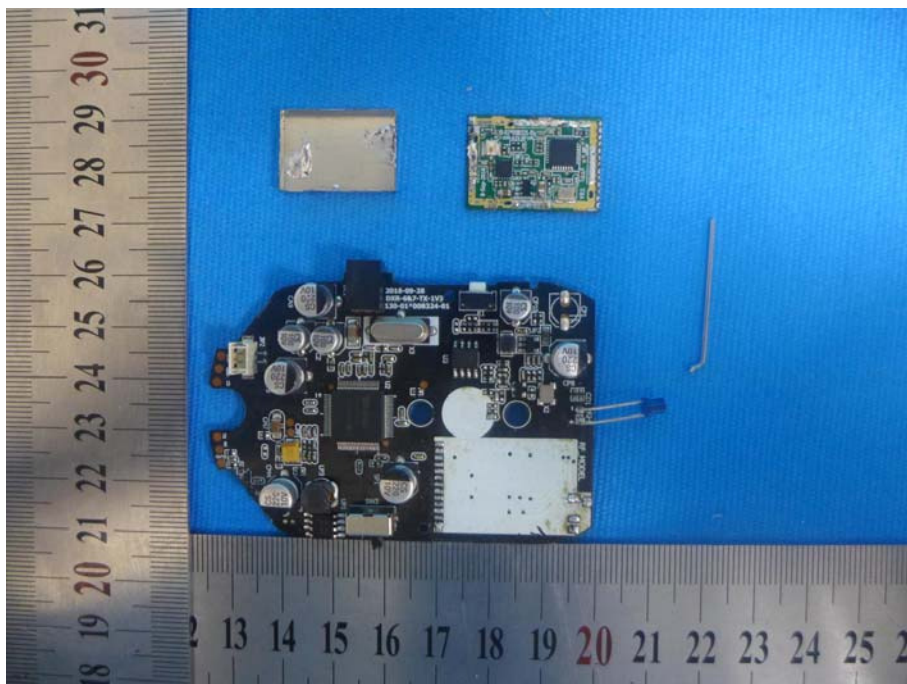
View of Product-12



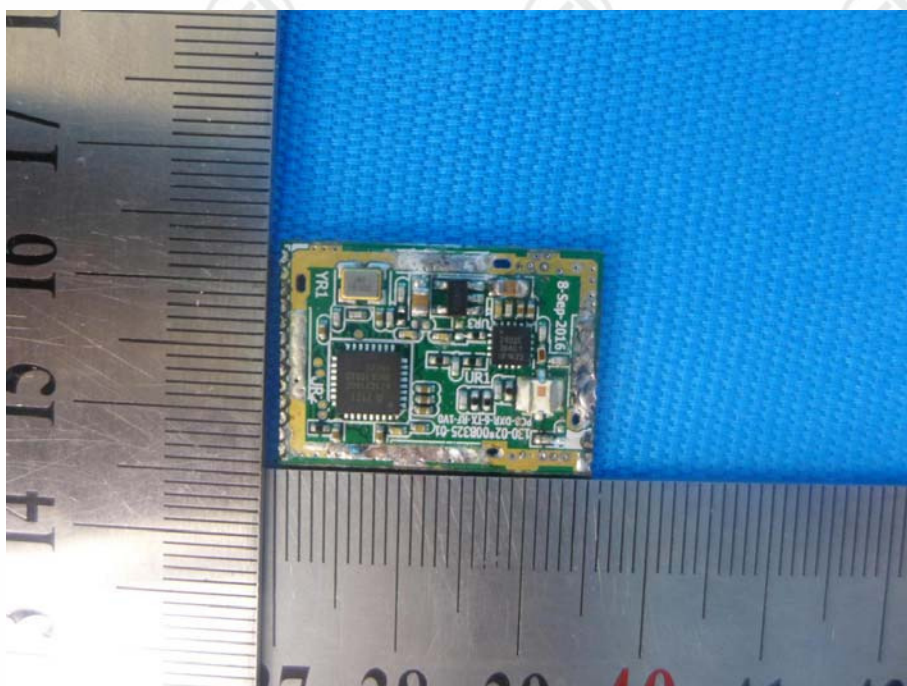
View of Product-13



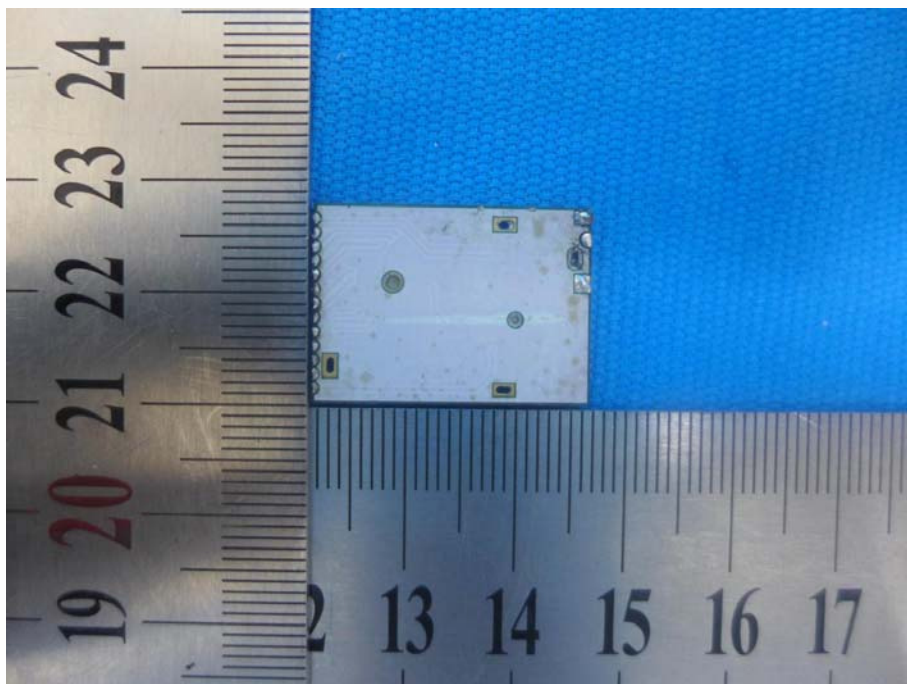
View of Product-14



View of Product-15



View of Product-16



View of Product-17



View of Product-18(Adapter 1: BLJ06W059055P1-U)



View of Product-19(Adapter 1: BLJ06W059055P1-U)



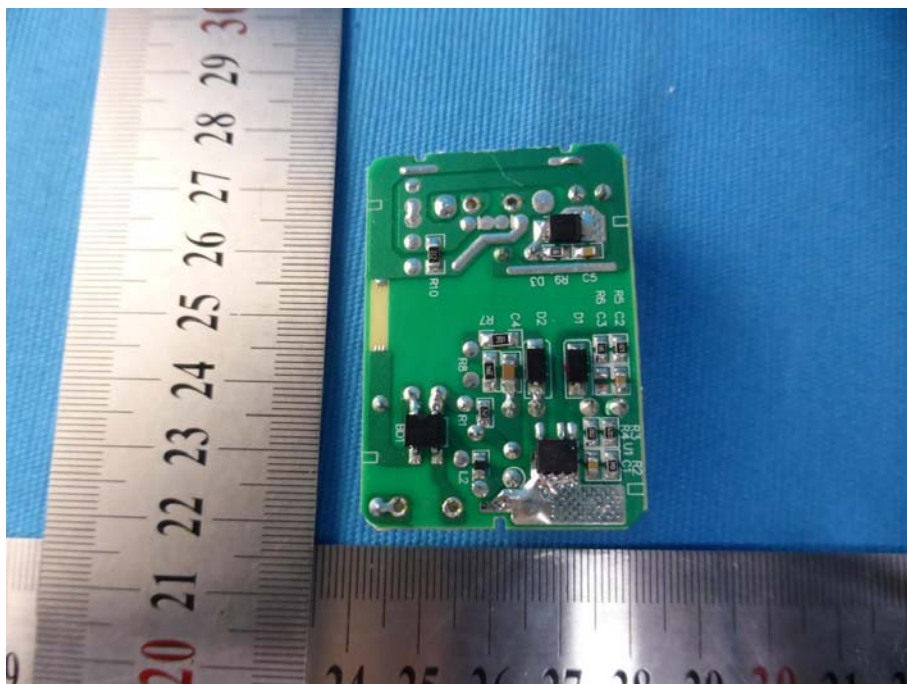
View of Product-20(Adapter 1: BLJ06W059055P1-U)



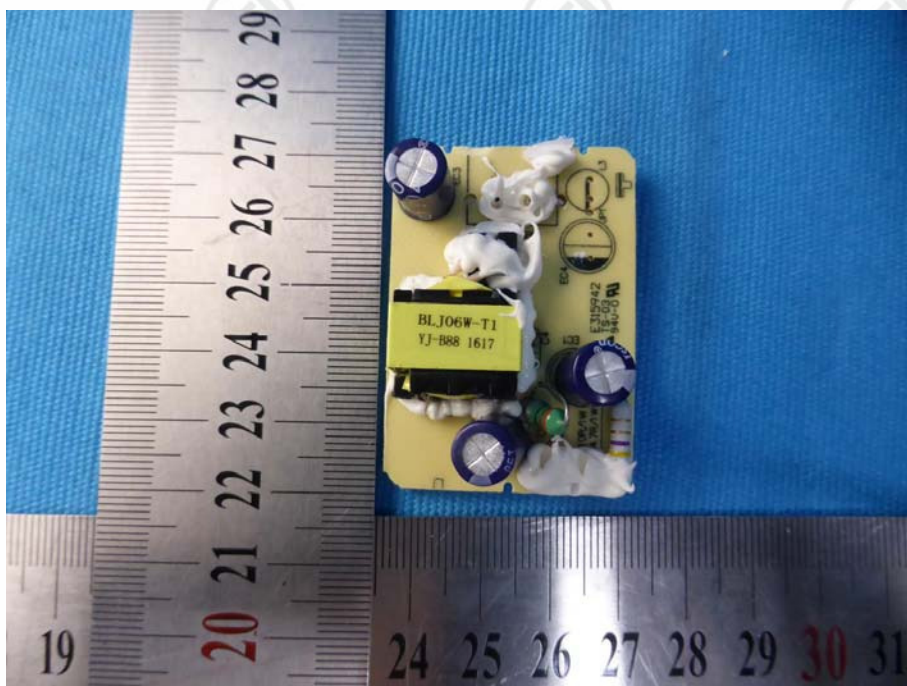
View of Product-21(Adapter 1: BLJ06W059055P1-U)



View of Product-22(Adapter 1: BLJ06W059055P1-U)



View of Product-23(Adapter 1: BLJ06W059055P1-U)



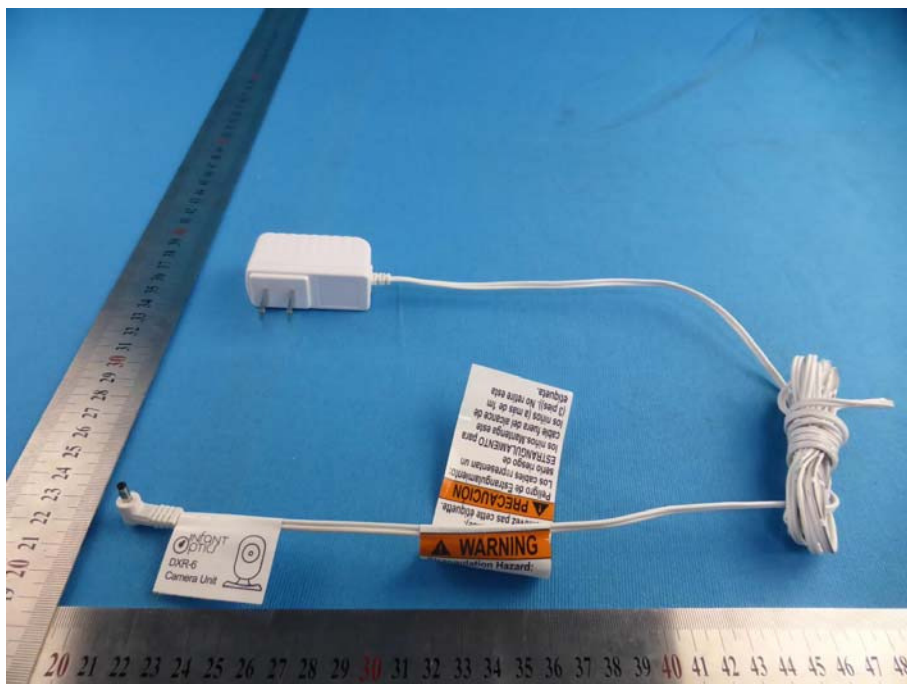
View of Product-24(Adapter 1: BLJ06W059055P1-U)



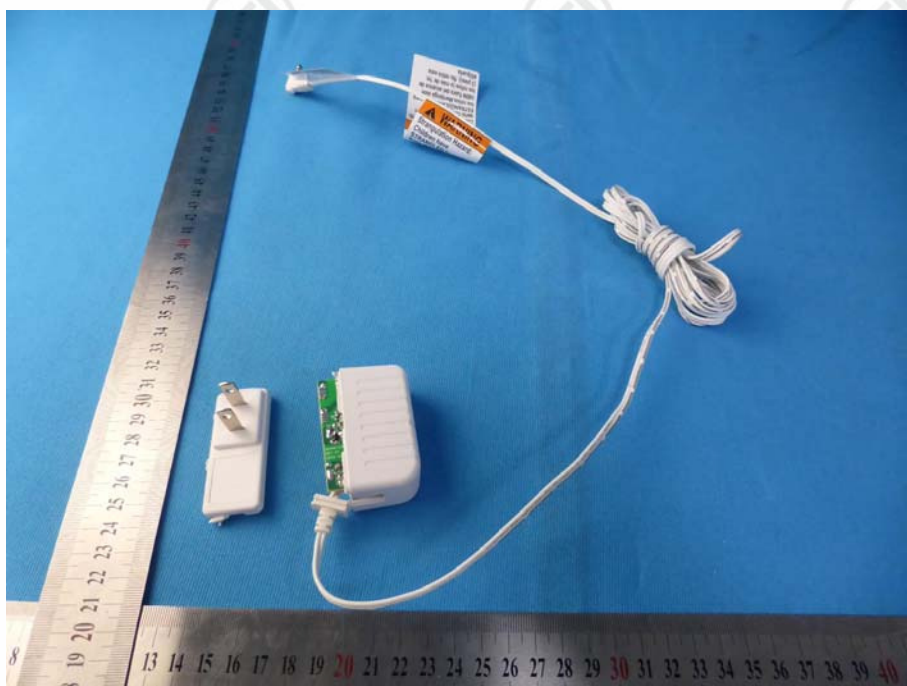
View of Product-25(Adapter 2: CS3B059055FU)



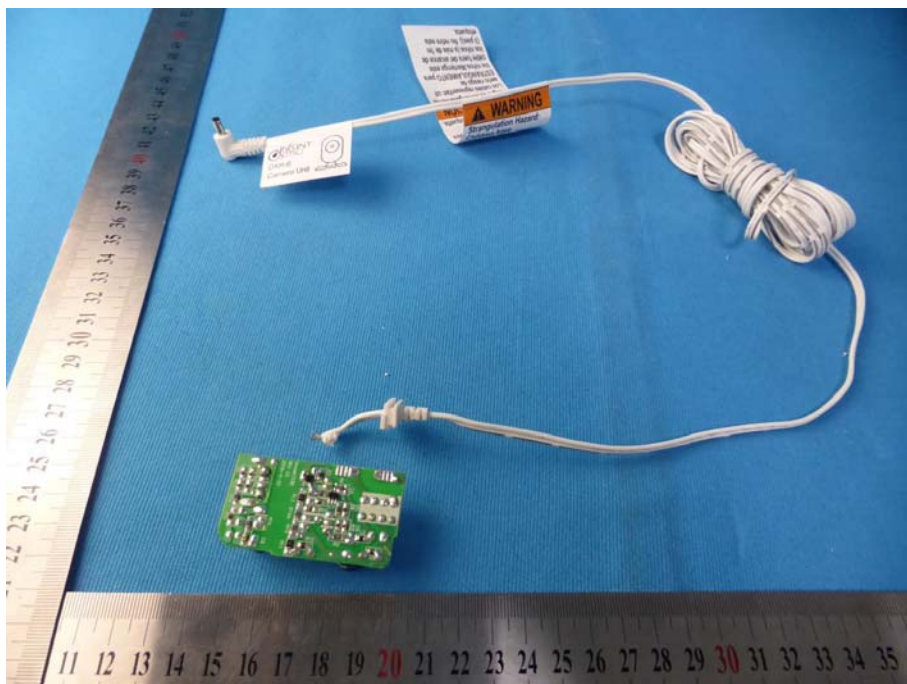
View of Product-26(Adapter 2: CS3B059055FU)



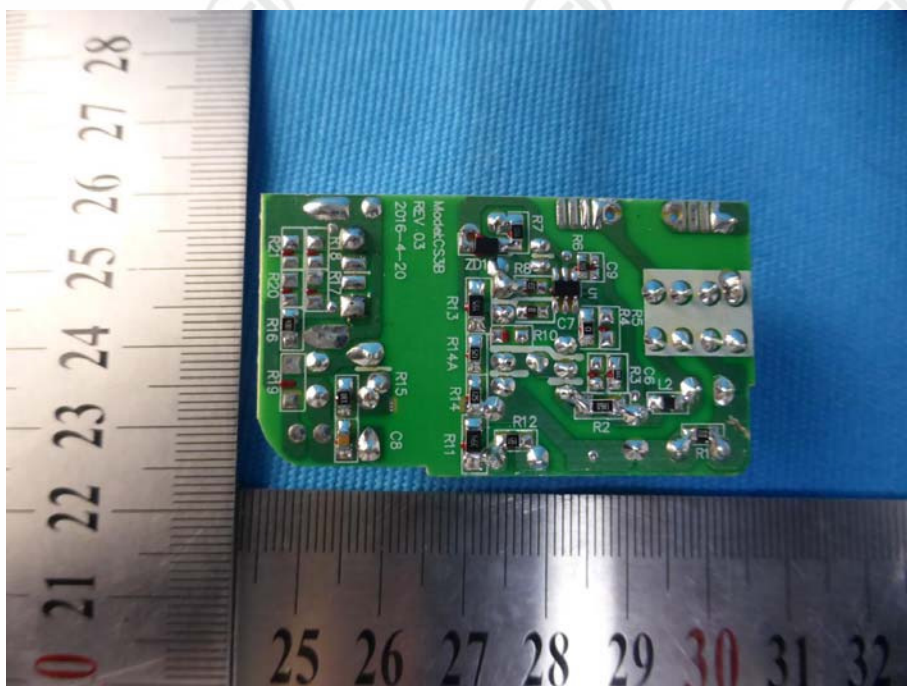
View of Product-27(Adapter 2: CS3B059055FU)



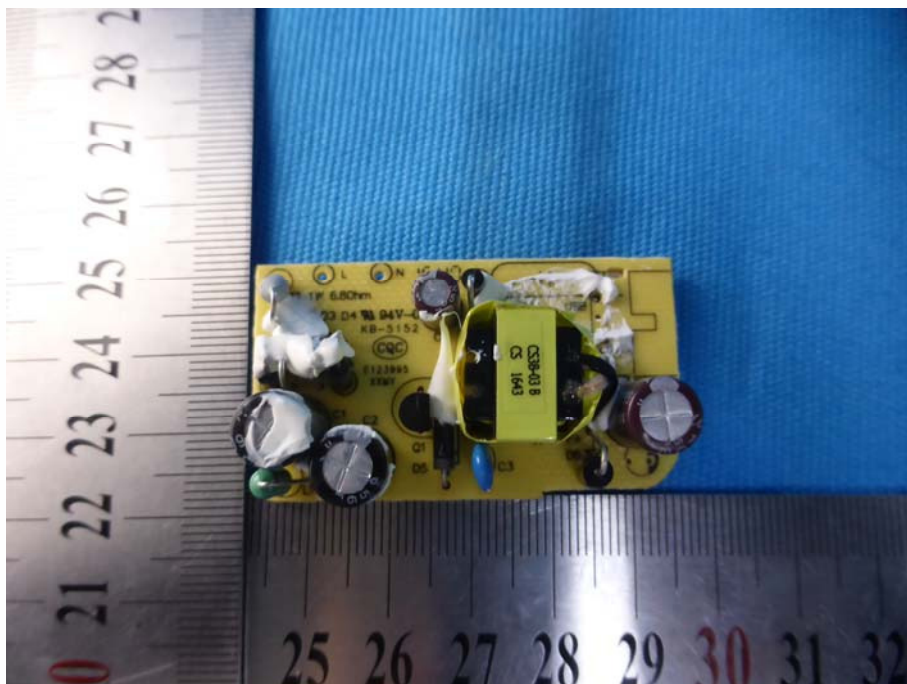
View of Product-28(Adapter 2: CS3B059055FU)



View of Product-29(Adapter 2: CS3B059055FU)



View of Product-30(Adapter 2: CS3B059055FU)



View of Product-31(Adapter 2: CS3B059055FU)

\*\*\* End of Report \*\*\*

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