

**FCC - TEST REPORT**

Report Number : **60.790.16.039.01R01** Date of Issue : August 26, 2016

Model : mcMod120

Product Type : Wireless Module

Applicant : MC-THINGS INC

Address : P.O. Box 687 Stn Main, Cochrane A.B. Canada

Production Facility : MC-THINGS INC

Address : P.O. Box 687 Stn Main, Cochrane A.B. Canada

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : 29

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## 2 Description of Equipment Under Test

### Description of the Equipment Under Test

|               |   |
|---------------|---|
| Product:      | Wireless Module                             |
| Model no.:    | mcMod120                                    |
| FCC ID:       | 2AGBO-MCMOD120                              |
| Rating:       | 3.0VDC (1 x 3.0VDC size "CR2032" batteries) |
| Frequency:    | 2402-2480MHz                                |
| Antenna gain: | +3.3 dBi                                    |
| Modulation:   | GFSK  |

### 3 Summary of Test Standards

| Test Standards  |
|---|
| FCC Part 15 Subpart C 10-1-14 Edition<br>Federal Communications Commission, PART 15 — Radio Frequency Devices,<br>Subpart C — Unintentional Radiators |

## 4 Details about the Test Laboratory

### Site 1

Company name: TÜV SÜD Hong Kong Ltd.  
3/F, West Wing, Lakeside 2,  
10 Science Park West Avenue,  
Science Park, Shatin, Hong Kong

### Site 2

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Building 12&13 Zhiheng Wisdomland Business Park,  
Nantou Checkpoint Road 2,  
Shenzhen 518052, P.R.China  
FCC Registration Number: 502708

| Emission Tests                                      |           |
|---|-----------|
| Test Item   | Test Site |
| <b>FCC Part 15 Subpart C</b>                        |           |
| FCC Title 47 Part 15.249 & 15.209 Radiated Emission | Site 2    |
| FCC Title 47 Part 15.249 & 15.207 Conduct Emission  | NIL       |
| FCC Title 47 Part 15.215 20dB & 99% Bandwidth       | Site 2    |
| FCC Title 47 Part 15.249 Bandedge Emission          | Site 2    |

## 4.1 Test Equipment Site List

### Site 2:

| DESCRIPTION                         | MANUFACTURER    | MODEL NO.       | SERIAL NO.    | CAL. DUE DATE |
|-------------------------------------|-----------------|-----------------|---------------|---------------|
| EMI Test Receiver                   | Rohde & Schwarz | ESR 26          | 101269        | 17-Aug-17     |
| Trilog Super Broadband Test Antenna | Schwarzbeck     | VULB 9163       | 707           | 17-Aug-17     |
| Horn Antenna                        | Rohde & Schwarz | HF907           | 102294        | 17-Aug-17     |
| Pre-amplifier                       | Rohde & Schwarz | SCU 18          | 102230        | 17-Aug-17     |
| 3m Semi-anechoic chamber            | TDK             | 9X6X6           | ----          | 29-May-19     |
| Signal Generator                    | Rohde & Schwarz | SMB100A         | 108272        | 17-Aug-17     |
| Signal Analyzer                     | Rohde & Schwarz | FSV40           | 101030        | 17-Aug-17     |
| Vector Signal Generator             | Rohde & Schwarz | SMU 200A        | 105324        | 17-Aug-17     |
| RF Switch Module                    | Rohde & Schwarz | OSP120/OSP-B157 | 101226/100851 | 17-Aug-17     |

## 4.2 Measurement System Uncertainty

### Measurement System Uncertainty Emissions

| System Measurement Uncertainty                                      |  |
|---|--|
| Items   | Extended Uncertainty                     |
| Uncertainty for Radiated Emission in 3m chamber<br>9kHz-30MHz       | 4.54dB                                   |
| Uncertainty for Radiated Emission in 3m chamber<br>30MHz-1000MHz    | Horizontal: 4.83dB;<br>Vertical: 4.91dB; |
| Uncertainty for Radiated Emission in 3m chamber<br>1000MHz-25000MHz | Horizontal: 4.89dB;<br>Vertical: 4.88dB; |
| Uncertainty for Conducted RF test                                   | 2.04dB                                   |

## 5 Summary of Test Results

| Emission Tests                                      |       |                                     |                          |                                     |
|---|-------|-------------------------------------|--------------------------|-------------------------------------|
| FCC Part 15 Subpart C                               |       |                                     |                          |                                     |
| Test Condition                                      | Pages | Test Result                         |                          |                                     |
|   |       | Pass                                | Fail                     | N/A                                 |
| FCC Title 47 Part 15.249 & 15.209 Radiated Emission | 10-15 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| FCC Title 47 Part 15.249 & 15.207 Conduct Emission  | NIL   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| FCC Title 47 Part 15.215 20dB & 99% Bandwidth       | 16-21 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| FCC Title 47 Part 15.249 Bandedge Emission          | 22-23 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |



## 6 General Remarks

### Remarks

NIL

### SUMMARY:

- All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

- The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

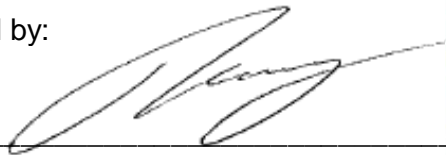
Sample Received Date: May 31, 2016

Testing Start Date: June 1, 2016

Testing End Date: August 1, 2016

- TÜV SÜD HONG KONG LTD. -

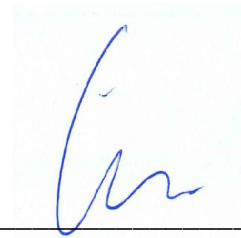
Reviewed by:



TSENG Chi Kit  
EMC Project Engineer



Prepared by:



CHAN Kwong Ngai  
EMC Test Engineer

## 7 Emission Test Results

### 7.1 Radiated Emission

EUT: mcMod120  
 Op Condition: Operated, TX Mode (2402MHz)  
 Test Specification: FCC15.249 & 15.209, Antenna: Horizontal  
 Comment: 3.0VDC  
 Remark: 9kHz to 25GHz

| Test Result                         |            |
|-------------------------------------|------------|
| <input checked="" type="checkbox"/> | Passed     |
| <input type="checkbox"/>            | Not Passed |

| Frequency<br>MHz | Result<br>dB $\mu$ V/m | Limit<br>dB $\mu$ V/m | Margin<br>dB | Detector   |
|------------------|------------------------|-----------------------|--------------|------------|
| 45.255           | 21.80                  | 40                    | -18.20       | Quasi Peak |
| 58.561           | 20.60                  | 40                    | -19.40       | Quasi Peak |
| 275.248          | 18.49                  | 46                    | -27.51       | Quasi Peak |
| 888.503          | 27.28                  | 46                    | -18.72       | Quasi Peak |
| 1255.065         | 28.98                  | 74                    | -45.02       | Peak       |
| 1255.065         | 18.45                  | 54                    | -35.55       | Average    |
| 2013.600         | 29.06                  | 74                    | -44.94       | Peak       |
| 2013.600         | 20.54                  | 54                    | -33.46       | Average    |
| 2402.000         | 93.91                  | 114                   | -20.09       | Peak       |
| 2402.000         | 82.68                  | 94                    | -11.32       | Average    |
| 4804.000         | 46.54                  | 74                    | -27.46       | Peak       |
| 4804.000         | 35.88                  | 54                    | -18.12       | Average    |
| 7206.000         | 44.35                  | 74                    | -29.65       | Peak       |
| 7206.000         | 34.01                  | 54                    | -19.99       | Average    |
| 9608.000         | 51.51                  | 74                    | -22.49       | Peak       |
| 9608.000         | 40.78                  | 54                    | -13.22       | Average    |

## Radiated Emission

EUT: mcMod120  
 Op Condition: Operated, TX Mode (2402MHz)  
 Test Specification: FCC15.249 & 15.209, Antenna: Vertical  
 Comment: 3.0VDC  
 Remark: 9kHz to 25GHz

|                                     |            |
|-------------------------------------|------------|
| Test Result                         |            |
| <input checked="" type="checkbox"/> | Passed     |
| <input type="checkbox"/>            | Not Passed |

| Frequency<br>MHz | Result<br>dB $\mu$ V/m | Limit<br>dB $\mu$ V/m | Margin<br>dB | Detector   |
|------------------|------------------------|-----------------------|--------------|------------|
| 45.255           | 22.41                  | 40                    | -17.59       | Quasi Peak |
| 58.561           | 21.15                  | 40                    | -18.85       | Quasi Peak |
| 275.248          | 19.84                  | 46                    | -26.16       | Quasi Peak |
| 888.503          | 29.52                  | 46                    | -16.48       | Quasi Peak |
| 1255.065         | 28.85                  | 74                    | -45.15       | Peak       |
| 1255.065         | 19.21                  | 54                    | -34.79       | Average    |
| 2013.600         | 28.64                  | 74                    | -45.36       | Peak       |
| 2013.600         | 19.91                  | 54                    | -34.09       | Average    |
| 2402.000         | 84.15                  | 114                   | -29.85       | Peak       |
| 2402.000         | 73.39                  | 94                    | -20.61       | Average    |
| 4804.000         | 40.25                  | 74                    | -33.75       | Peak       |
| 4804.000         | 30.18                  | 54                    | -23.82       | Average    |
| 7206.000         | 41.63                  | 74                    | -32.37       | Peak       |
| 7206.000         | 30.95                  | 54                    | -23.05       | Average    |
| 9608.000         | 51.06                  | 74                    | -22.94       | Peak       |
| 9608.000         | 41.55                  | 54                    | -12.45       | Average    |

## Radiated Emission

EUT: mcMod120  
 Op Condition: Operated, TX Mode (2440MHz)  
 Test Specification: FCC15.249 & 15.209, Antenna: Horizontal  
 Comment: 3.0VDC  
 Remark: 9kHz to 25GHz

|                                     |            |
|-------------------------------------|------------|
| Test Result                         |            |
| <input checked="" type="checkbox"/> | Passed     |
| <input type="checkbox"/>            | Not Passed |

| Frequency<br>MHz | Result<br>dB $\mu$ V/m | Limit<br>dB $\mu$ V/m | Margin<br>dB | Detector   |
|------------------|------------------------|-----------------------|--------------|------------|
| 45.168           | 20.15                  | 40                    | -19.85       | Quasi Peak |
| 58.512           | 19.65                  | 40                    | -20.35       | Quasi Peak |
| 275.985          | 20.07                  | 46                    | -25.93       | Quasi Peak |
| 890.210          | 28.15                  | 46                    | -17.85       | Quasi Peak |
| 1230.550         | 30.68                  | 74                    | -43.32       | Peak       |
| 1230.550         | 20.52                  | 54                    | -33.48       | Average    |
| 1764.530         | 28.85                  | 74                    | -45.15       | Peak       |
| 1764.530         | 19.48                  | 54                    | -34.52       | Average    |
| 2440.000         | 92.52                  | 114                   | -21.48       | Peak       |
| 2440.000         | 81.85                  | 94                    | -12.15       | Average    |
| 4884.000         | 44.14                  | 74                    | -29.86       | Peak       |
| 4884.000         | 33.85                  | 54                    | -20.15       | Average    |
| 7320.000         | 46.66                  | 74                    | -27.34       | Peak       |
| 7320.000         | 37.55                  | 54                    | -16.45       | Average    |
| 9760.000         | 50.94                  | 74                    | -23.06       | Peak       |
| 9760.000         | 41.68                  | 54                    | -12.32       | Average    |

## Radiated Emission

EUT: mcMod120  
 Op Condition: Operated, TX Mode (2440MHz)  
 Test Specification: FCC15.249 & 15.209, Antenna: Vertical  
 Comment: 3.0VDC  
 Remark: 9kHz to 25GHz

| Test Result                         |            |
|-------------------------------------|------------|
| <input checked="" type="checkbox"/> | Passed     |
| <input type="checkbox"/>            | Not Passed |

| Frequency<br>MHz | Result<br>dBμV/m | Limit<br>dBμV/m | Margin<br>dB | Detector   |
|------------------|------------------|-----------------|--------------|------------|
| 45.168           | 20.88            | 40              | -19.12       | Quasi Peak |
| 58.512           | 19.92            | 40              | -20.08       | Quasi Peak |
| 275.985          | 21.15            | 46              | -24.85       | Quasi Peak |
| 890.210          | 29.40            | 46              | -16.60       | Quasi Peak |
| 1230.550         | 28.97            | 74              | -45.03       | Peak       |
| 1230.550         | 18.42            | 54              | -35.58       | Average    |
| 1764.530         | 27.68            | 74              | -46.32       | Peak       |
| 1764.530         | 16.71            | 54              | -37.29       | Average    |
| 2440.000         | 82.45            | 114             | -31.55       | Peak       |
| 2440.000         | 71.56            | 94              | -22.44       | Average    |
| 4884.000         | 40.11            | 74              | -33.89       | Peak       |
| 4884.000         | 31.58            | 54              | -22.42       | Average    |
| 7320.000         | 40.22            | 74              | -33.78       | Peak       |
| 7320.000         | 20.37            | 54              | -33.63       | Average    |
| 9760.000         | 50.81            | 74              | -23.19       | Peak       |
| 9760.000         | 40.93            | 54              | -13.07       | Average    |

## Radiated Emission

EUT: mcMod120  
 Op Condition: Operated, TX Mode (2480MHz)  
 Test Specification: FCC15.249 & 15.209, Antenna: Horizontal  
 Comment: 3.0VDC  
 Remark: 9kHz to 25GHz

|                                     |            |
|-------------------------------------|------------|
| Test Result                         |            |
| <input checked="" type="checkbox"/> | Passed     |
| <input type="checkbox"/>            | Not Passed |

| Frequency<br>MHz | Result<br>dB $\mu$ V/m | Limit<br>dB $\mu$ V/m | Margin<br>dB | Detector   |
|------------------|------------------------|-----------------------|--------------|------------|
| 45.150           | 21.68                  | 40                    | -18.32       | Quasi Peak |
| 60.250           | 22.43                  | 40                    | -17.57       | Quasi Peak |
| 280.445          | 20.58                  | 46                    | -19.42       | Quasi Peak |
| 895.885          | 27.40                  | 46                    | -18.60       | Quasi Peak |
| 1258.600         | 29.61                  | 74                    | -44.39       | Peak       |
| 1258.600         | 20.14                  | 54                    | -33.86       | Average    |
| 2351.805         | 32.47                  | 74                    | -41.53       | Peak       |
| 2351.805         | 21.75                  | 54                    | -32.25       | Average    |
| 2480.000         | 91.06                  | 114                   | -22.94       | Peak       |
| 2480.000         | 81.71                  | 94                    | -12.29       | Average    |
| 4960.000         | 41.72                  | 74                    | -32.28       | Peak       |
| 4960.000         | 31.30                  | 54                    | -22.70       | Average    |
| 7440.000         | 47.96                  | 74                    | -26.04       | Peak       |
| 7440.000         | 38.58                  | 54                    | -15.42       | Average    |
| 9920.000         | 43.95                  | 74                    | -30.05       | Peak       |
| 9920.000         | 35.10                  | 54                    | -18.90       | Average    |

## Radiated Emission

EUT: mcMod120  
 Op Condition: Operated, TX Mode (2480MHz)  
 Test Specification: FCC15.249 & 15.209, Antenna: Vertical  
 Comment: 3.0VDC  
 Remark: 9kHz to 25GHz

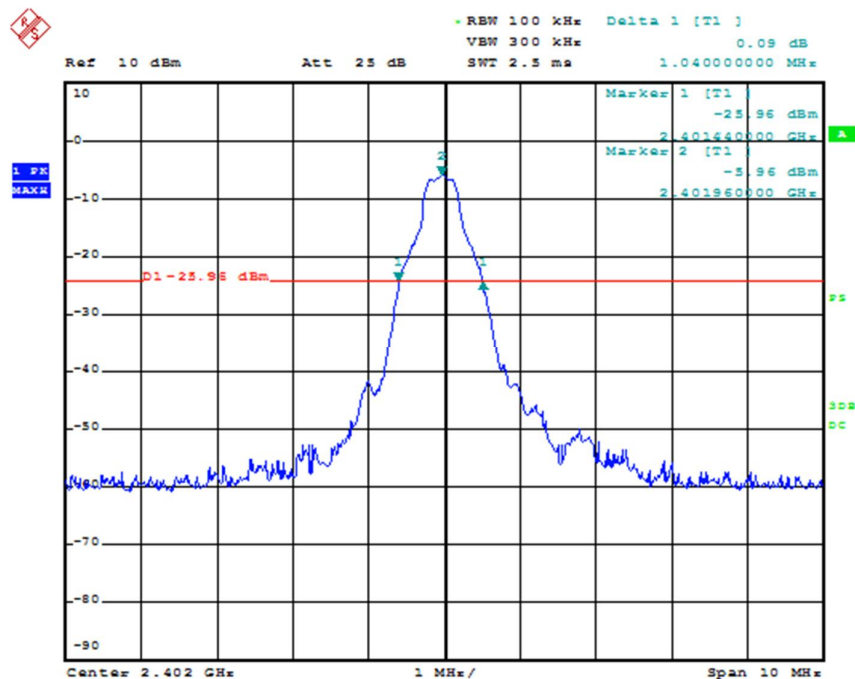
|                                     |            |
|-------------------------------------|------------|
| Test Result                         |            |
| <input checked="" type="checkbox"/> | Passed     |
| <input type="checkbox"/>            | Not Passed |

| Frequency<br>MHz | Result<br>dB $\mu$ V/m | Limit<br>dB $\mu$ V/m | Margin<br>dB | Detector   |
|------------------|------------------------|-----------------------|--------------|------------|
| 45.150           | 20.18                  | 40                    | -19.82       | Quasi Peak |
| 60.250           | 21.94                  | 40                    | -18.06       | Quasi Peak |
| 280.445          | 19.92                  | 46                    | -20.08       | Quasi Peak |
| 895.885          | 26.88                  | 46                    | -19.12       | Quasi Peak |
| 1258.600         | 29.57                  | 74                    | -44.43       | Peak       |
| 1258.600         | 20.15                  | 54                    | -33.85       | Average    |
| 2351.805         | 28.26                  | 74                    | -45.74       | Peak       |
| 2351.805         | 18.96                  | 54                    | -35.04       | Average    |
| 2480.000         | 84.48                  | 114                   | -29.52       | Peak       |
| 2480.000         | 73.55                  | 94                    | -20.45       | Average    |
| 4960.000         | 41.52                  | 74                    | -32.48       | Peak       |
| 4960.000         | 32.04                  | 54                    | -21.96       | Average    |
| 7440.000         | 40.11                  | 74                    | -33.89       | Peak       |
| 7440.000         | 28.60                  | 54                    | -25.40       | Average    |
| 9920.000         | 50.50                  | 74                    | -23.50       | Peak       |
| 9920.000         | 40.11                  | 54                    | -13.89       | Average    |

## 7.2 20dB & 99% Bandwidth

EUT: Coach Smart  
 Op Condition: Operated, TX Mode (2402MHz)  
 Test Specification: FCC15.215, 20dB Bandwidth  
 Comment: 3.0VDC

| Test Result                         |            |
|-------------------------------------|------------|
| <input checked="" type="checkbox"/> | Passed     |
| <input type="checkbox"/>            | Not Passed |



**20dB bandwidth**

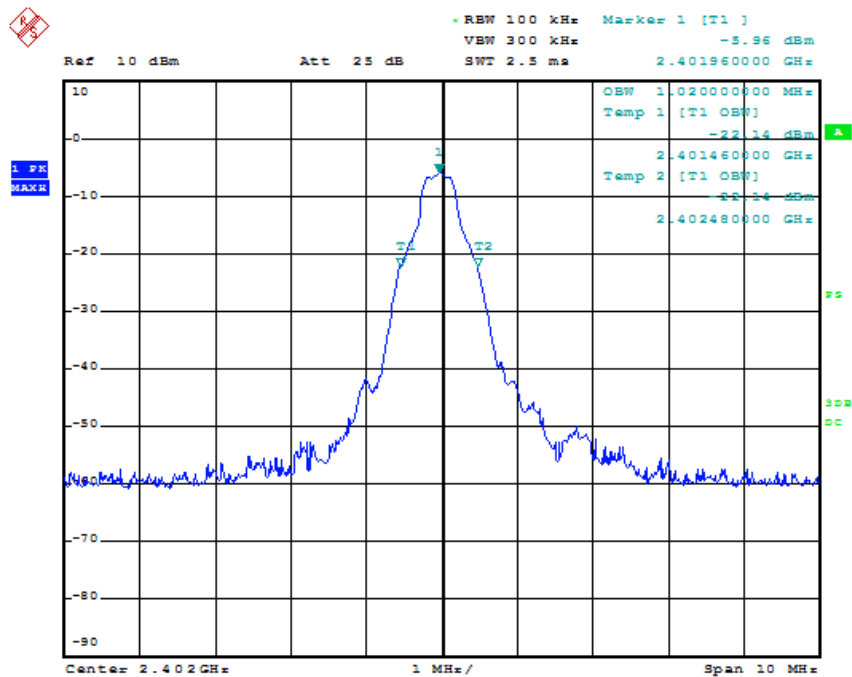
1040 kHz



**20dB & 99% Bandwidth**

EUT: mcMod120  
Op Condition: Operated, TX Mode (2402MHz)  
Test Specification: FCC15.215, 99% Bandwidth  
Comment: 3.0VDC

Test Result  
☒ Passed  
☐ Not Passed

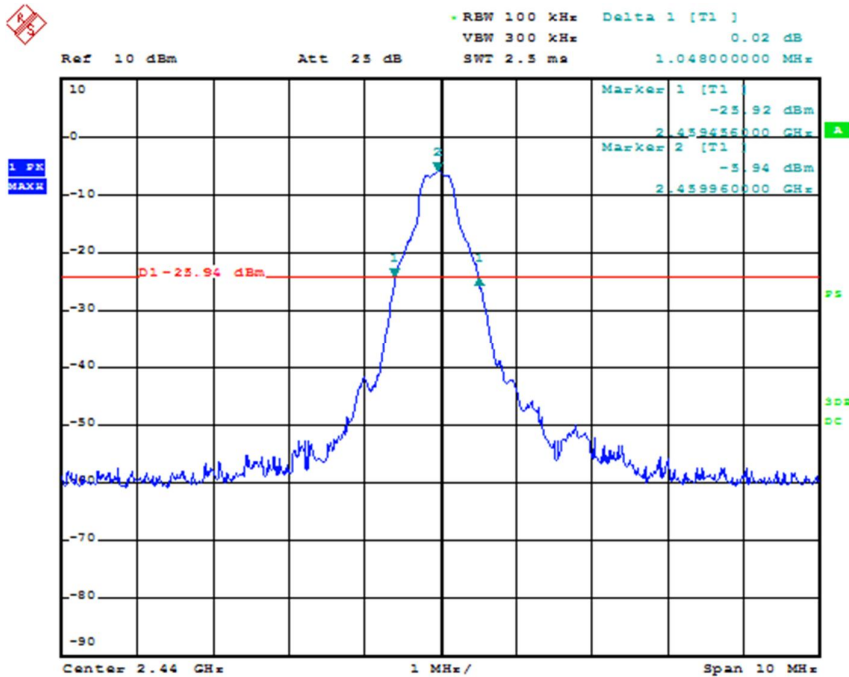
**99% bandwidth**

1020 kHz

**20dB & 99% Bandwidth**

EUT: Coach Smart  
Op Condition: Operated, TX Mode (2440MHz)  
Test Specification: FCC15.215, 20dB Bandwidth  
Comment: 3.0VDC

Test Result  
☒ Passed  
☐ Not Passed



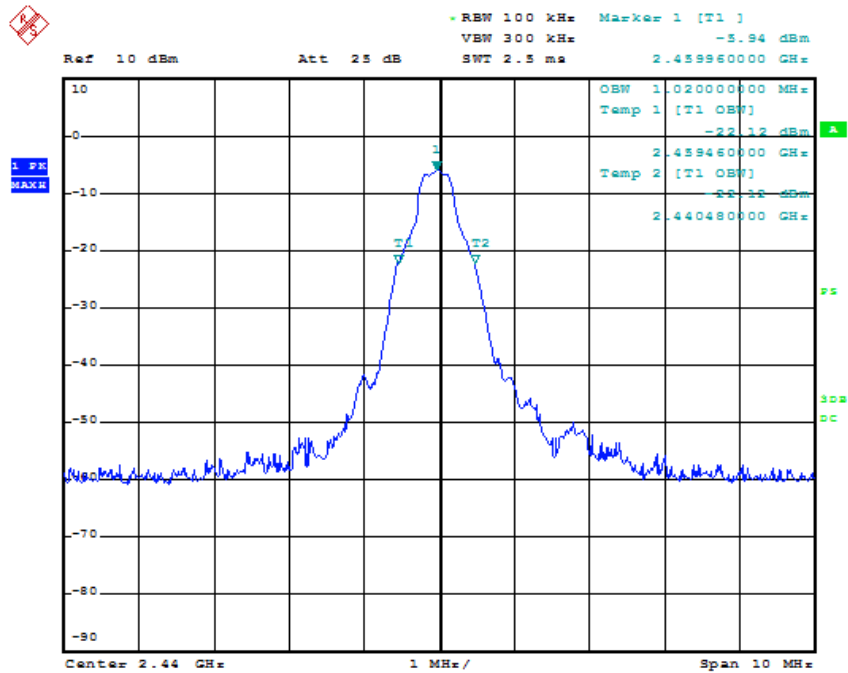
|                |
|----------------|
| 20dB bandwidth |
| 1048 kHz       |

**20dB & 99% Bandwidth**

EUT: mcMod120  
 Op Condition: Operated, TX Mode (2440MHz)  
 Test Specification: FCC15.215, 99% Bandwidth  
 Comment: 3.0VDC

**Test Result**

☒ Passed  
☐ Not Passed

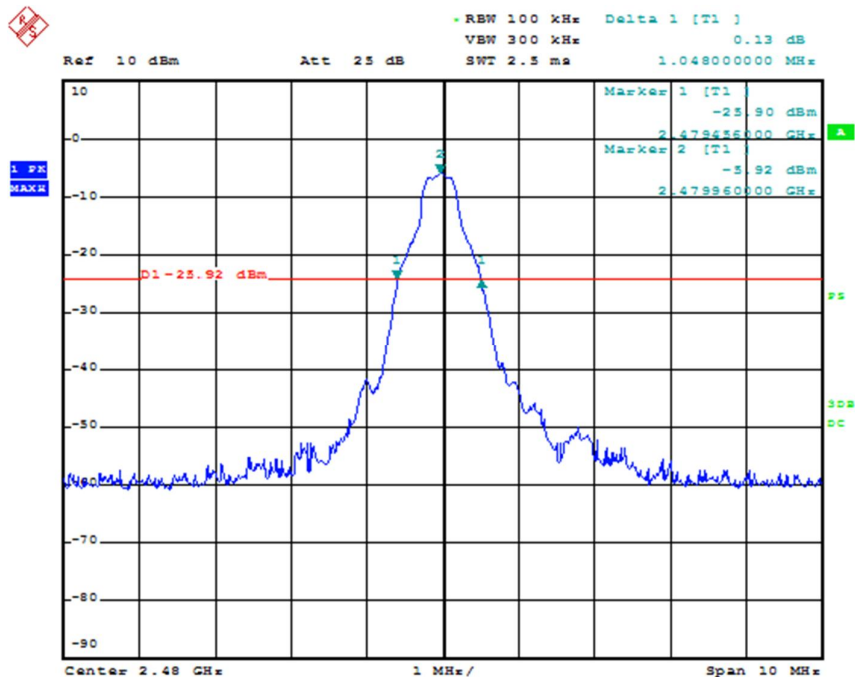
**20dB bandwidth**

1020 kHz

**20dB & 99% Bandwidth**

EUT: Coach Smart  
Op Condition: Operated, TX Mode (2480MHz)  
Test Specification: FCC15.215, 20dB Bandwidth  
Comment: 3.0VDC

Test Result  
☒ Passed  
☐ Not Passed



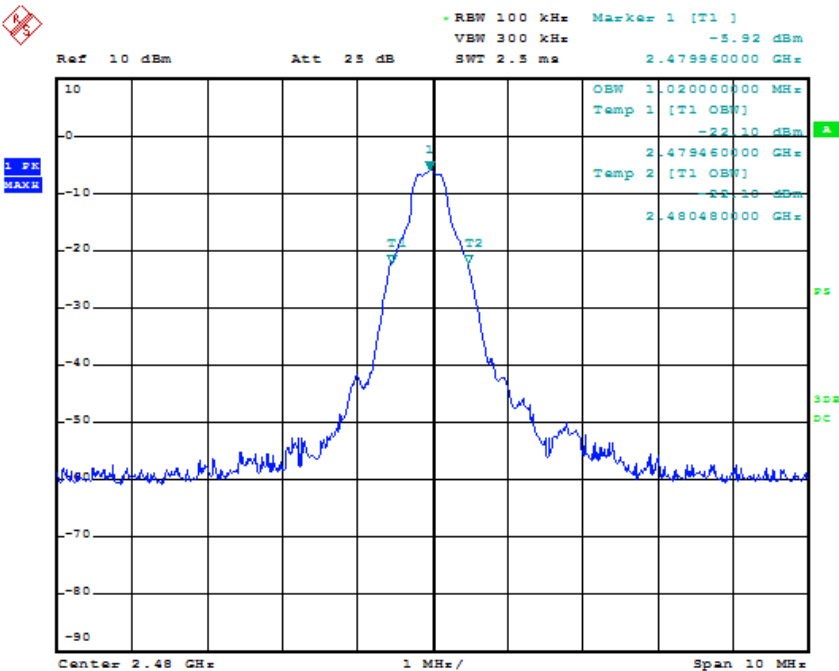
**20dB bandwidth**

1048 kHz

**20dB & 99% Bandwidth**

EUT: mcMod120  
Op Condition: Operated, TX Mode (2480MHz)  
Test Specification: FCC15.215, 99% Bandwidth  
Comment: 3.0VDC

Test Result  
☒ Passed  
☐ Not Passed

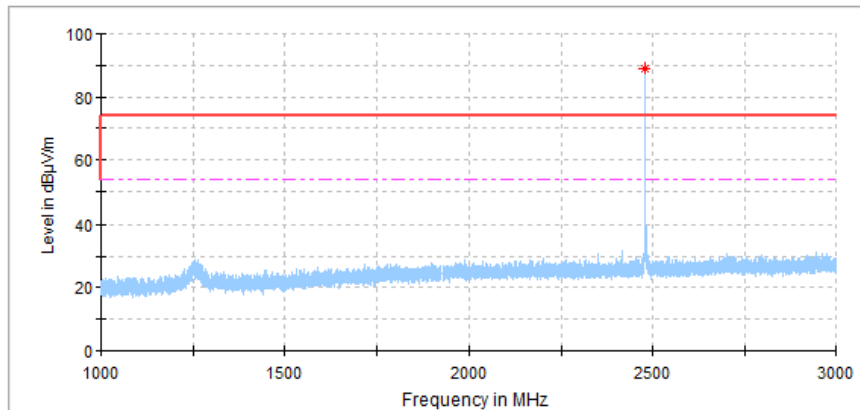
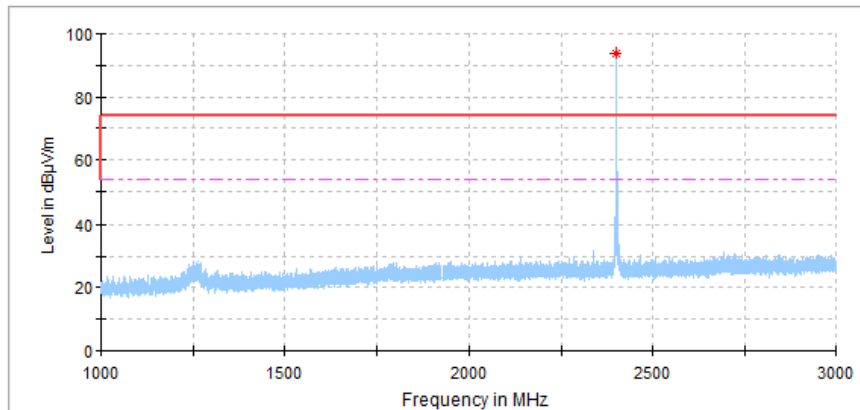


**20dB bandwidth**  
1020 kHz

## 7.3 Bandedge Emission

EUT: mcMod120  
 Op Condition: Operated, TX Mode (2402MHz / 2480MHz)  
 Test Specification: FCC15.247, Antenna: Horizontal  
 Comment: 3.0VDC

| Test Result                         |            |
|-------------------------------------|------------|
| <input checked="" type="checkbox"/> | Passed     |
| <input type="checkbox"/>            | Not Passed |

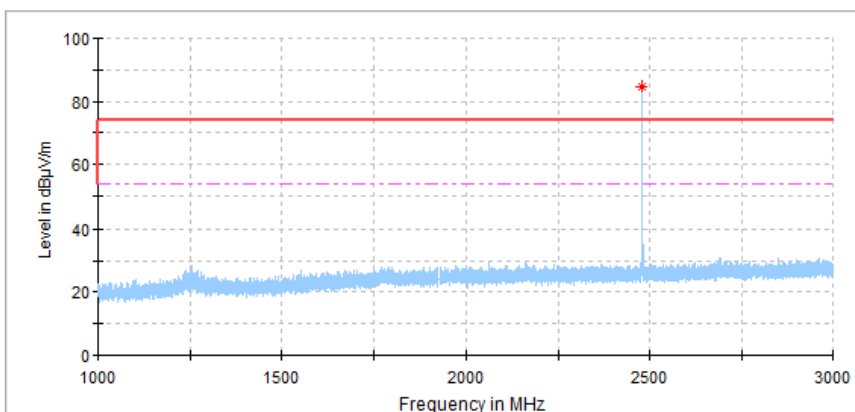
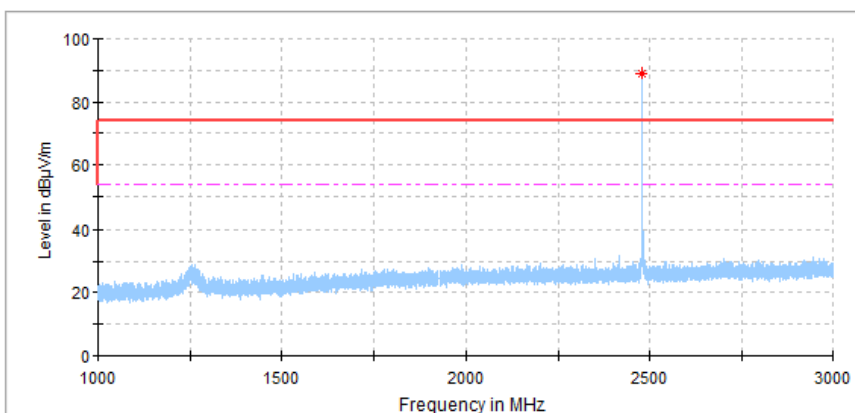


| Band | Frequency<br>MHz | Result<br>dBµV/m | Limit<br>dBµV/m | Margin<br>dB | Detector |
|------|------------------|------------------|-----------------|--------------|----------|
| Low  | 2390.000         | 30.50            | 74              | 43.50        | Peak     |
| Low  | 2390.000         | 20.14            | 54              | 33.86        | Average  |
| High | 2483.500         | 35.03            | 74              | 38.97        | Peak     |
| High | 2483.500         | 24.44            | 54              | 29.56        | Average  |

## Bandedge Emission

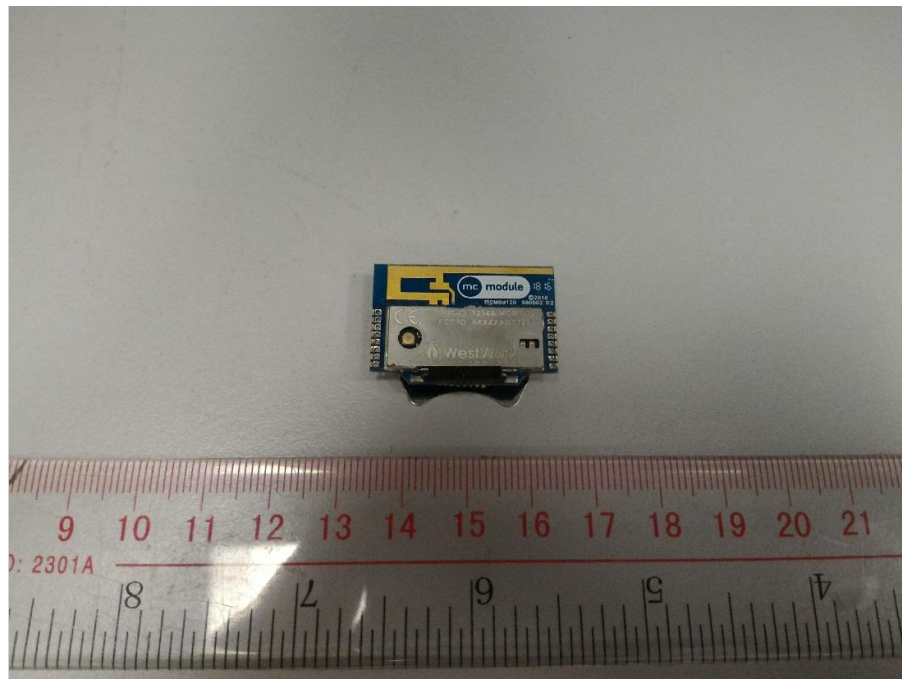
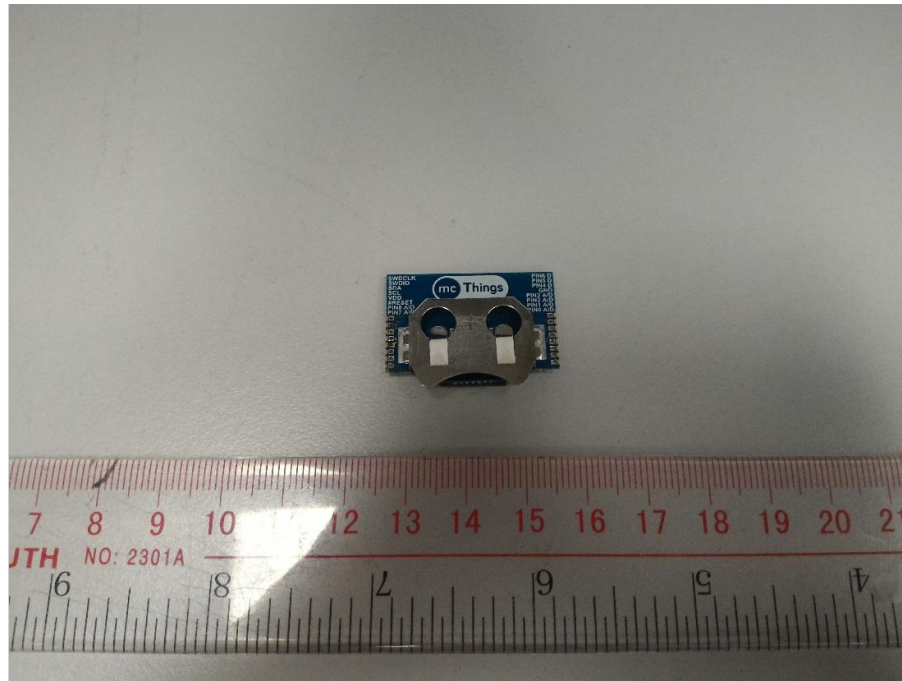
EUT: mcMod120  
 Op Condition: Operated, TX Mode (2402MHz / 2480MHz)  
 Test Specification: FCC15.247, Antenna: Vertical  
 Comment: 3.0VDC

Test Result  
☒ Passed  
☐ Not Passed



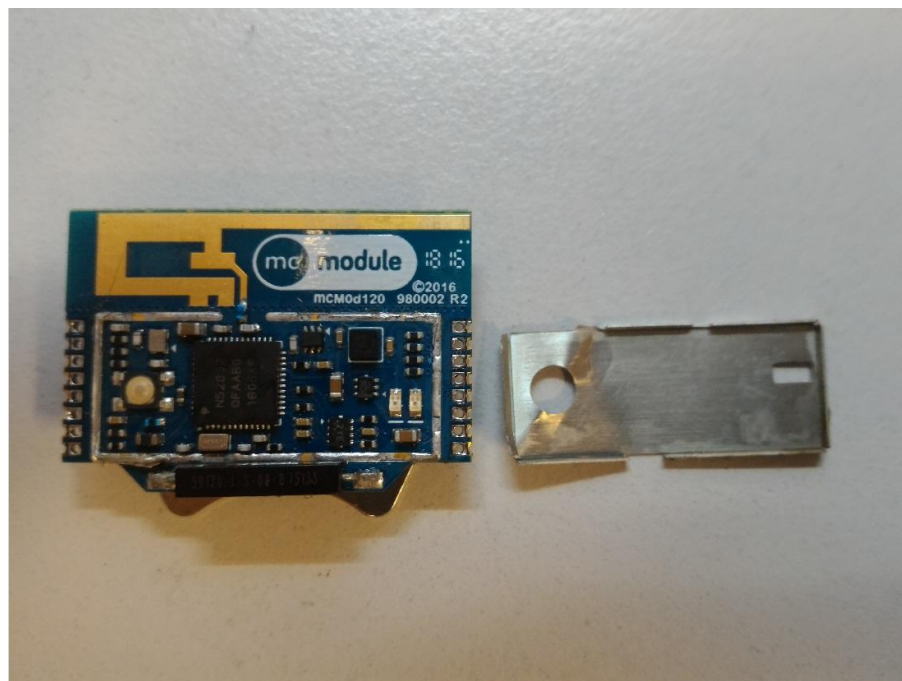
| Band | Frequency<br>MHz | Result<br>dBμV/m | Limit<br>dBμV/m | Margin<br>dB | Detector |
|------|------------------|------------------|-----------------|--------------|----------|
| Low  | 2390.000         | 33.54            | 74              | -40.46       | Peak     |
| Low  | 2390.000         | 22.02            | 54              | -31.98       | Average  |
| High | 2483.500         | 33.91            | 74              | -40.09       | Peak     |
| High | 2483.500         | 23.03            | 54              | -30.97       | Average  |

## 8 Appendix A - Photographs of EUT

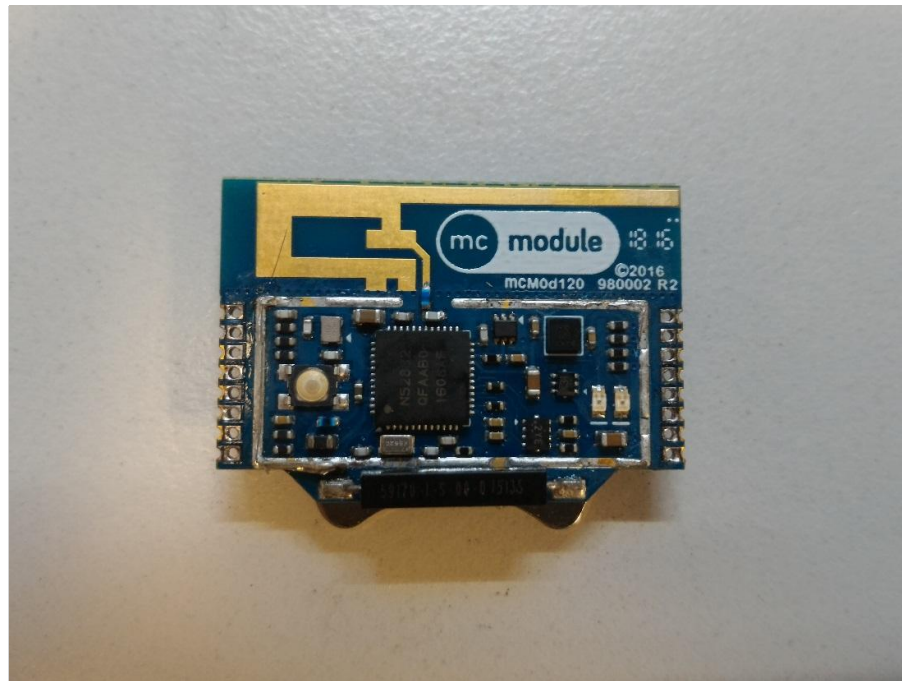




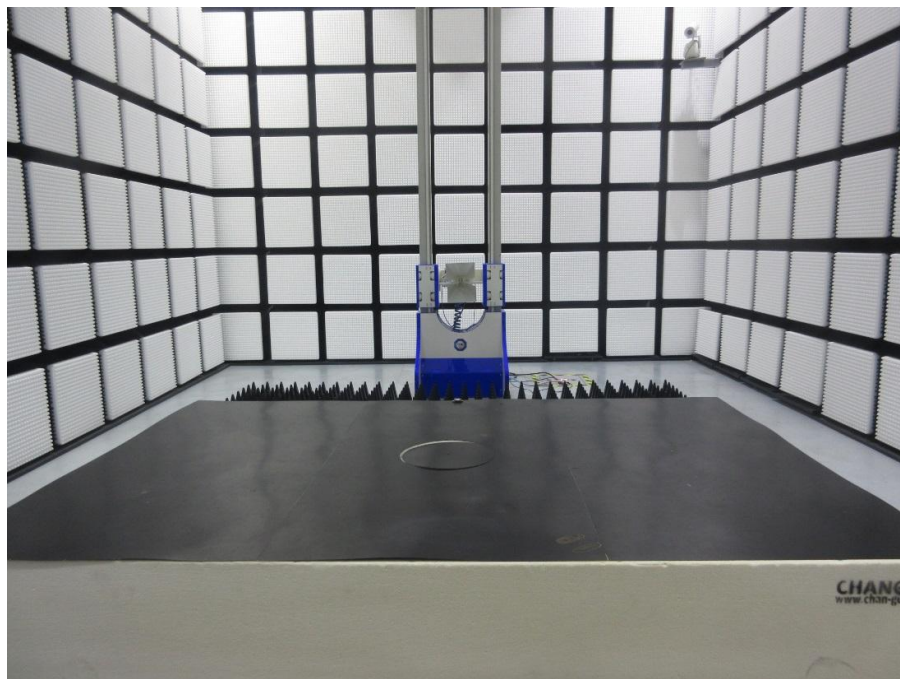
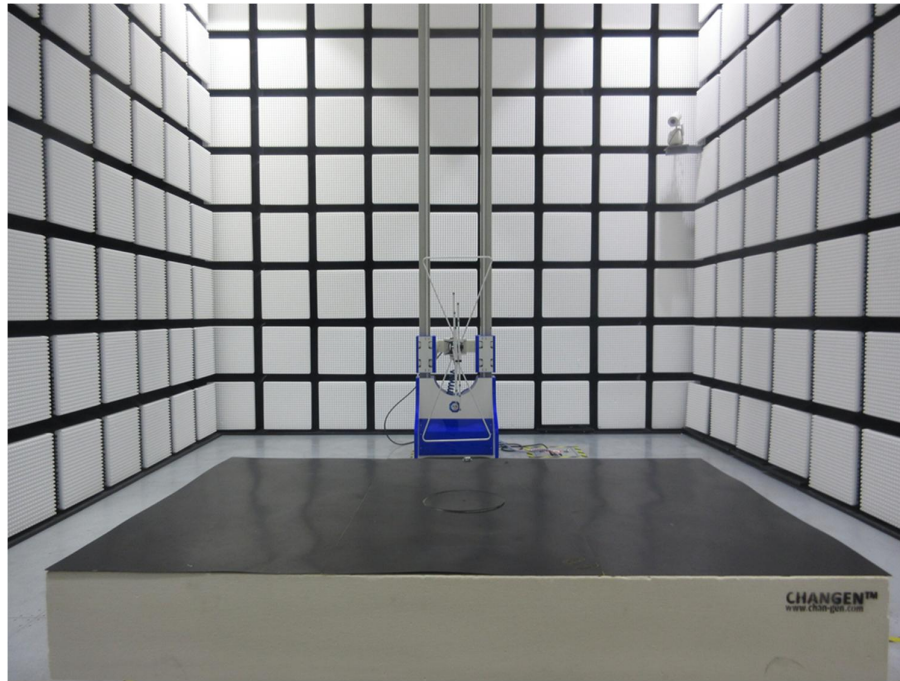
## Appendix A



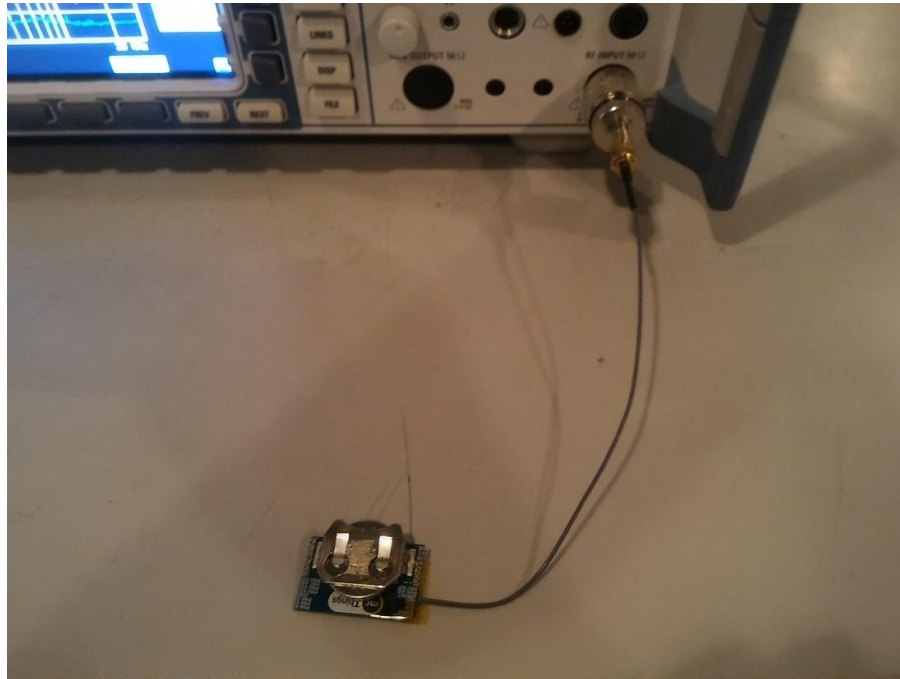
## Appendix A



## 9 Appendix B - Setup Photographs of EUT



## Appendix B



## 10 Appendix C - General Product Information

### Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v06 section 4.3.1,

>> The 1-g SAR test exclusion thresholds, for 100MHz to 6GHz, at test separation distances  $\leq 50$  mm are determined by:

Power at 2.402GHz = 0.7381 mW EIRP

Power at 2.440GHz = 0.5359 mW EIRP

Power at 2.480GHz = 0.3829 mW EIRP

$[(0.7381 \text{ mW}) / (20 \text{ mm})] \cdot [\text{sqrt}(2.402 \text{ GHz})] = 0.057197$  which is  $\leq 3.0$  for 1-g SAR.

$[(0.5359 \text{ mW}) / (20 \text{ mm})] \cdot [\text{sqrt}(2.440 \text{ GHz})] = 0.041855$  which is  $\leq 3.0$  for 1-g SAR.

$[(0.3829 \text{ mW}) / (20 \text{ mm})] \cdot [\text{sqrt}(2.480 \text{ GHz})] = 0.030149$  which is  $\leq 3.0$  for 1-g SAR.

Therefore the device is exempt from stand-alone SAR test requirements.

>> The fundamental frequency of the EUT is 2402MHz-2480MHz, the test separation distance is  $< 50\text{mm}$ . (Manufacturer specified the separation distance is: 20mm)

>> The power of EUT measured is:

- For 2402MHz:  $0.7381\text{mW} = 10 \log(0.7381) \text{ dBm} \sim -1.32\text{dBm}$
- For 2440MHz:  $0.5359\text{mW} = 10 \log(0.5359) \text{ dBm} \sim -2.71\text{dBm}$
- For 2480MHz:  $0.3829\text{mW} = 10 \log(0.3829) \text{ dBm} \sim -4.17\text{dBm}$