

TEST REPORT

Product : Cabinet Lock
Trade mark : Digilock
Model/Type reference : NMVM-RX, NMVS-RX, NMVP-RX,
NLS3-RX, NLSP-RX
Serial Number : N/A
Report Number : EED32K002268
FCC ID : 2ABVZ5GNMVXRNLSXR
Date of Issue : Oct. 09, 2018
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

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Date:

Oct. 09, 2018



Check No.:3320249656

2 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | Oct. 09, 2018 | Original |
| | | |
| | | |

3 Test Summary

| Test Item | Test Requirement | Test method | Result |
|---|---|------------------|--------|
| AC Power Line Conducted Emission | 47 CFR Part 15 Subpart C Section 15.207 | ANSI C63.10-2013 | N/A |
| Antenna Requirement | 47 CFR Part 15C Section 15.203 | ANSI C63.10-2013 | PASS |
| Radiated Emission | 47 CFR Part 15 Subpart C Section 15.209; 15.225(a)(b)(c)(d) | ANSI C63.10-2013 | PASS |
| Frequency Tolerance | 47 CFR Part 15 Subpart C Section 15.225(e) | ANSI C63.10-2013 | PASS |
| Occupied Bandwidth | 47 CFR Part 15 Subpart C Section 15.215 | ANSI C63.10-2013 | PASS |

Remark:

1.Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

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

N/A: In this whole report not application, since the tested sample is only supplied by battery DC 6V.

Model No.:NMVM-RX, NMVS-RX, NMVP-RX, NLS3-RX, NLSP-RX

Only the model NMVM-RX was tested, since the electrical circuit design, layout, components used and internal wiring, shell material and shape were identical for the above models, with difference being outer decoration.

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5 General Information

5.1 Client Information

| | |
|--------------------------|---|
| Applicant: | Security People, Inc. dba Digilock |
| Address of Applicant: | 9 Willowbrook Court Petaluma, CA94954, USA |
| Manufacturer: | Security People, Inc. dba Digilock |
| Address of Manufacturer: | 9 Willowbrook Court Petaluma, CA94954, USA |
| Factory: | Digilock |
| Address of Factory: | No.11, DaXin Road, HuaiDe Community, HuMen Town, DongGuan City, GuangDong Province, China |

5.2 General Description of EUT

| | |
|----------------------------------|---|
| Product Name: | Cabinet Lock |
| Mode No.(EUT): | NMVM-RX, NMVS-RX, NMVP-RX, NLS3-RX, NLSP-RX |
| Test Mode No.: | NMVM-RX |
| Trade Mark: | Digilock |
| EUT Supports Radios application: | 13.56MHz |
| Firmware version of the sample: | 1.3(manufacturer declare) |
| Hardware version of the sample: | A01(manufacturer declare) |
| Power Supply: | ALCALINE Battery 4×1.5V (LR6)=6V |

5.3 Product Specification subjective to this standard

| | |
|-----------------------|----------------------------------|
| Carrier Frequency: | 13.56MHz |
| Modulation Type: | ASK |
| Antenna Type: | PCB trace antenna |
| Test voltage: | ALCALINE Battery 4×1.5V (LR6)=6V |
| Sample Received Date: | Sep. 17, 2018 |
| Sample tested Date: | Sep. 17, 2018 to Oct. 8, 2018 |

5.4 Test Environment and Mode

| | |
|-------------------------------|---|
| Operating Environment: | |
| Temperature: | 24°C |
| Humidity: | 54 % RH |
| Atmospheric Pressure: | 1010mbar |
| Test mode: | |
| Transmitter mode: | The EUT transmitted the continuous signal at the specific channel(s). |

5.5 Description of Support Units

The EUT has been tested independently.

5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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

No tests were sub-contracted.

FCC Designation No.: CN1164

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

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

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

6 Equipment List

| RF test system | | | | | |
|-----------------------------------|-------------------|-----------|-------------------|------------------------|----------------------------|
| Equipment | Manufacturer | Model No. | Serial Number | Cal. Date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Spectrum Analyzer | R&S | FSP40 | 100416 | 05-11-2018 | 05-10-2019 |
| DC Power | Keysight | E3642A | MY54426035 | 03-13-2018 | 03-12-2019 |
| high-low temperature test chamber | DongGuangQ inZhuo | LK-80GA | QZ20150611 879 | 03-16-2018 | 03-15-2019 |

| 3M Semi/full-anechoic Chamber | | | | | |
|----------------------------------|---------------|--------------------------|---------------|------------------------|----------------------------|
| Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| 3M Chamber & Accessory Equipment | TDK | SAC-3 | --- | 06-04-2016 | 06-03-2019 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB9163 | 9163-401 | 04-26-2018 | 04-25-2019 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB9163 | 9163-618 | 07-30-2018 | 07-29-2019 |
| Microwave Preamplifier | Agilent | 8449B | 3008A02425 | 08-21-2018 | 08-20-2019 |
| Microwave Preamplifier | Tonscend | EMC051845SE | 980380 | 01-19-2018 | 01-18-2019 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 9120D-1869 | 04-25-2018 | 04-23-2021 |
| Double ridge horn antenna | A.H.SYSTEM S | SAS-574 | 6042 | 06-05-2018 | 06-04-2021 |
| Pre-amplifier | A.H.SYSTEM S | PAP-1840-60 | 6041 | 06-05-2018 | 06-04-2021 |
| Loop Antenna | ETS | 6502 | 00071730 | 06-22-2017 | 06-21-2019 |
| Spectrum Analyzer | R&S | FSP40 | 100416 | 05-11-2018 | 05-10-2019 |
| Receiver | R&S | ESCI | 100435 | 05-25-2018 | 05-24-2019 |
| Multi device Controller | maturo | NCD/070/1071112 | --- | 01-10-2018 | 01-09-2019 |
| LISN | schwarzbeck | NNBM8125 | 81251547 | 05-11-2018 | 05-10-2019 |
| LISN | schwarzbeck | NNBM8125 | 81251548 | 05-11-2018 | 05-10-2019 |
| Signal Generator | Agilent | E4438C | MY45095744 | 03-13-2018 | 03-12-2019 |
| Signal Generator | Keysight | E8257D | MY53401106 | 03-13-2018 | 03-12-2019 |
| Temperature/Humidity Indicator | TAYLOR | 1451 | 1905 | 05-02-2018 | 05-01-2019 |
| Communication test set | Agilent | E5515C | GB47050534 | 03-16-2018 | 03-15-2019 |
| Cable line | Fulai(7M) | SF106 | 5219/6A | 01-10-2018 | 01-09-2019 |
| Cable line | Fulai(6M) | SF106 | 5220/6A | 01-10-2018 | 01-09-2019 |
| Cable line | Fulai(3M) | SF106 | 5216/6A | 01-10-2018 | 01-09-2019 |
| Cable line | Fulai(3M) | SF106 | 5217/6A | 01-10-2018 | 01-09-2019 |
| Communication test set | R&S | CMW500 | 104466 | 02-05-2018 | 02-04-2019 |
| High-pass filter | Sinoscite | FL3CX03WG18NM12-0398-002 | --- | 01-10-2018 | 01-09-2019 |
| High-pass filter | MICRO-TRONICS | SPA-F-63029-4 | --- | 01-10-2018 | 01-09-2019 |
| band rejection filter | Sinoscite | FL5CX01CA09CL12-0395-001 | --- | 01-10-2018 | 01-09-2019 |
| band rejection filter | Sinoscite | FL5CX01CA08CL12-0393-001 | --- | 01-10-2018 | 01-09-2019 |
| band rejection filter | Sinoscite | FL5CX02CA04CL12-0396-002 | --- | 01-10-2018 | 01-09-2019 |
| band rejection filter | Sinoscite | FL5CX02CA03CL12-0394-001 | --- | 01-10-2018 | 01-09-2019 |

| 3M full-anechoic Chamber | | | | | |
|-----------------------------|--------------|-------------------|---------------|------------------------|----------------------------|
| Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| RSE Automatic test software | JS Tonscend | JS36-RSE | 10166 | 06-20-2018 | 06-19-2019 |
| Receiver | Keysight | N9038A | MY57290136 | 03-28-2018 | 03-27-2019 |
| Spectrum Analyzer | Keysight | N9020B | MY57111112 | 03-28-2018 | 03-27-2019 |
| Spectrum Analyzer | Keysight | N9030B | MY57140871 | 03-28-2018 | 03-27-2019 |
| Loop Antenna | Schwarzbeck | FMZB 1519B | 1519B-075 | 04-25-2018 | 04-23-2021 |
| Loop Antenna | Schwarzbeck | FMZB 1519B | 1519B-076 | 04-25-2018 | 04-23-2021 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB 9163 | 9163-1148 | 04-25-2018 | 04-23-2021 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 9170-832 | 04-25-2018 | 04-23-2021 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 9170-829 | 04-25-2018 | 04-23-2021 |
| Communication Antenna | Schwarzbeck | CLSA 0110L | 1014 | 02-15-2018 | 02-14-2019 |
| Biconical antenna | Schwarzbeck | VUBA 9117 | 9117-381 | 04-25-2018 | 04-23-2021 |
| Horn Antenna | ETS-LINDGREN | 3117 | 00057407 | 07-10-2018 | 07-08-2021 |
| Preamplifier | EMCI | EMC184055SE | 980596 | 06-20-2018 | 06-19-2019 |
| Communication test set | R&S | CMW500 | 102898 | 02-05-2018 | 02-04-2019 |
| Preamplifier | EMCI | EMC001330 | 980563 | 06-20-2018 | 06-19-2019 |
| Preamplifier | Agilent | 8449B | 3008A02425 | 08-21-2018 | 08-20-2019 |
| Signal Generator | KEYSIGHT | E8257D | MY53401106 | 03-13-2018 | 03-12-2019 |
| Fully Anechoic Chamber | TDK | FAC-3 | --- | 11-17-2017 | 11-25-2020 |
| Filter bank | JS Tonscend | JS0806-F | 188060094 | 04-10-2018 | 04-08-2021 |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0001 | 01-10-2018 | 01-09-2019 |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0002 | 01-10-2018 | 01-09-2019 |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0003 | 01-10-2018 | 01-09-2019 |
| Cable line | Times | SFT205-NMSM-2.50M | 393495-0001 | 01-10-2018 | 01-09-2019 |
| Cable line | Times | EMC104-NMNM-1000 | SN160710 | 01-10-2018 | 01-09-2019 |
| Cable line | Times | SFT205-NMSM-3.00M | 394813-0001 | 01-10-2018 | 01-09-2019 |
| Cable line | Times | SFT205-NMNM-1.50M | 381964-0001 | 01-10-2018 | 01-09-2019 |
| Cable line | Times | SFT205-NMSM-7.00M | 394815-0001 | 01-10-2018 | 01-09-2019 |
| Cable line | Times | HF160-KMKM-3.00M | 393493-0001 | 01-10-2018 | 01-09-2019 |

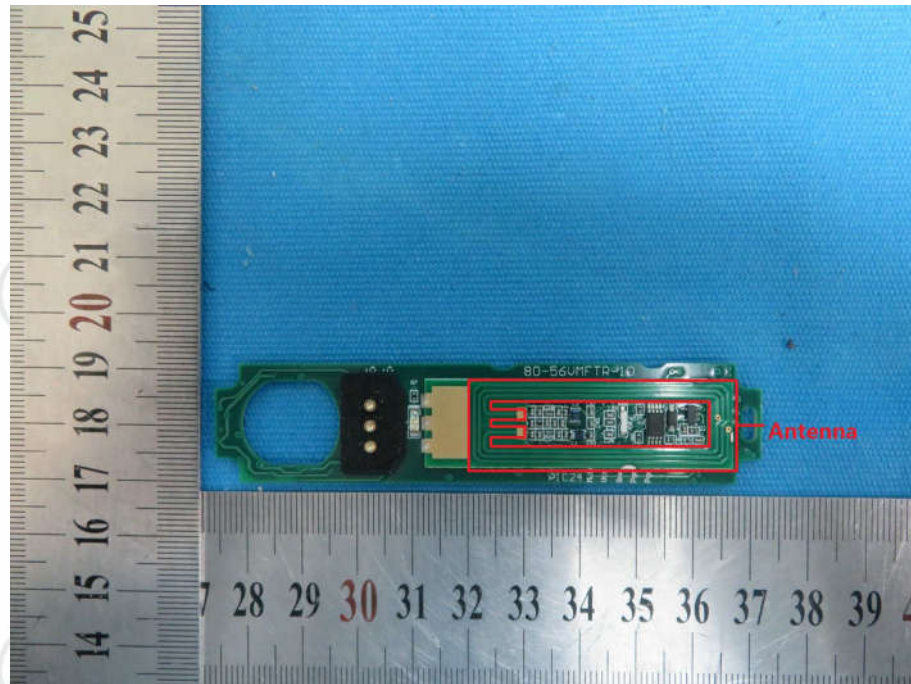
7 Test Result & Measurement Data

7.1 Antenna Requirement

| | |
|------------------------------|--------------------------------|
| Standard Requirement: | 47 CFR Part 15C Section 15.203 |
|------------------------------|--------------------------------|

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.



The antenna is integrated on the main PCB and no consideration of replacement.

7.2 Radiated Emissions

Test Requirement: 47 CFR Part 15 Subpart C Section 15.209; 15.225(a)(b)(c)(d)

Test Method: ANSI C63.10-2013

Test Site: 3m (Semi-Anechoic Chamber)

Requirements:

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

Receiver Setup:

| Frequency | Detector | RBW | VBW | Remark |
|-------------------|------------|---------|--------|------------|
| 0.009MHz-0.090MHz | Quasi-peak | 10kHz | 30kHz | Peak |
| 0.009MHz-0.090MHz | Quasi-peak | 10kHz | 30kHz | Average |
| 0.090MHz-0.110MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| 0.110MHz-0.490MHz | Quasi-peak | 10kHz | 30kHz | Peak |
| 0.110MHz-0.490MHz | Quasi-peak | 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 Setup:

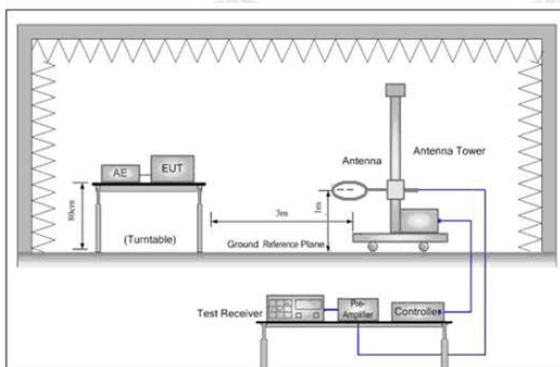


Figure 1. Below 30MHz

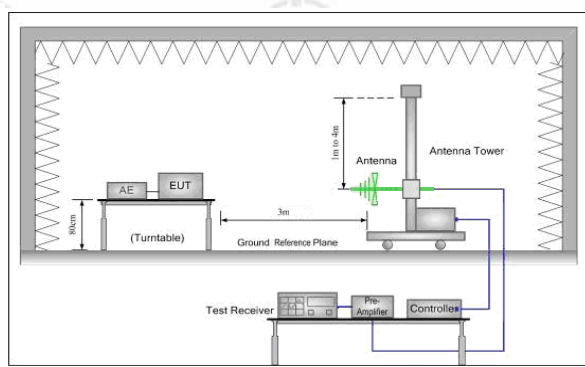


Figure 2. 30MHz to 1GHz

Test Procedure:

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The limit 1.705MHz to 30MHz in clause 4.3 are specified at 30 meters, and measurements were made at 3 meters, the limit is translated to 3 meters by using a formula as follows:
$$\text{Limit}_{3\text{m}} = \text{Limit}_{30\text{m}} + 40\log(30\text{m}/3)$$
8. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode:

Transmitter mode

Instruments Used:

Refer to section 6 for details

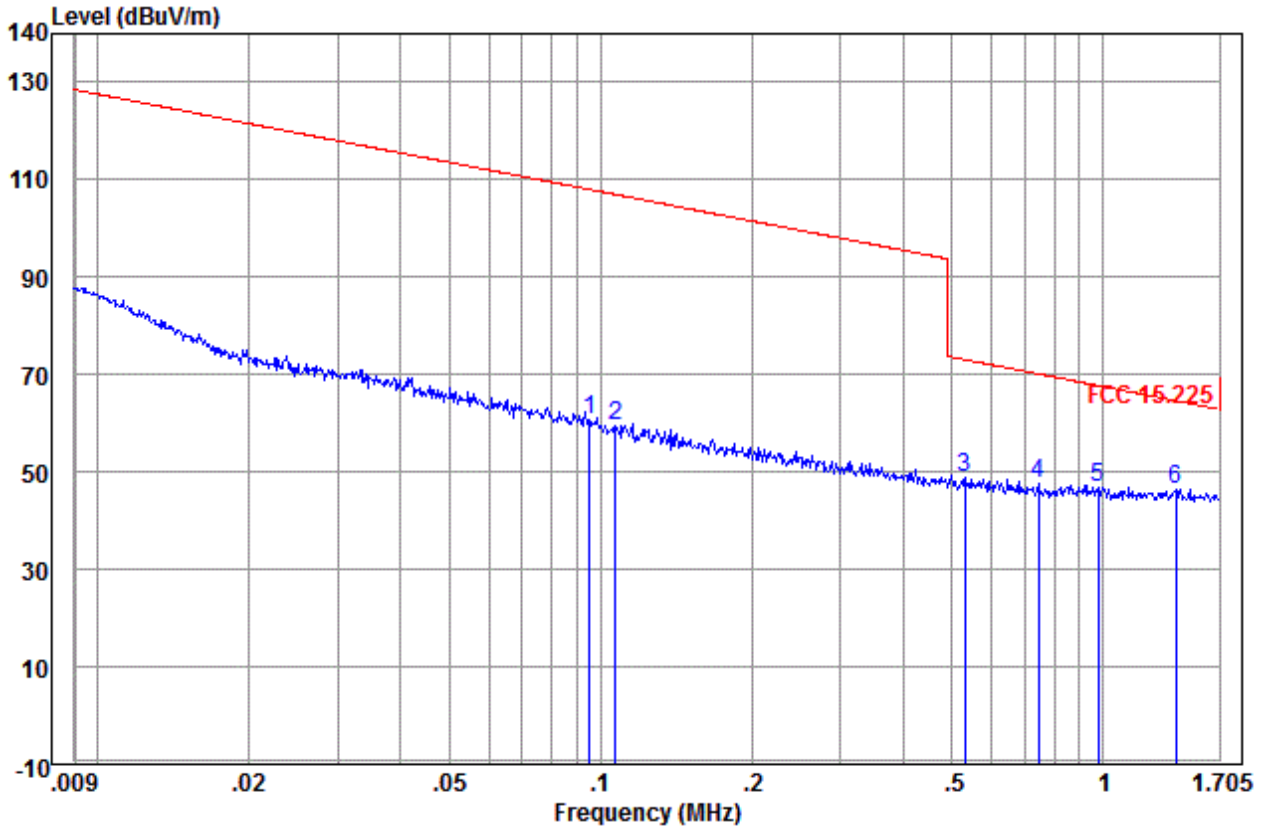
Test Result:

Pass

Test Procedure: For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.4: 2014, section 8.2.1. The center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

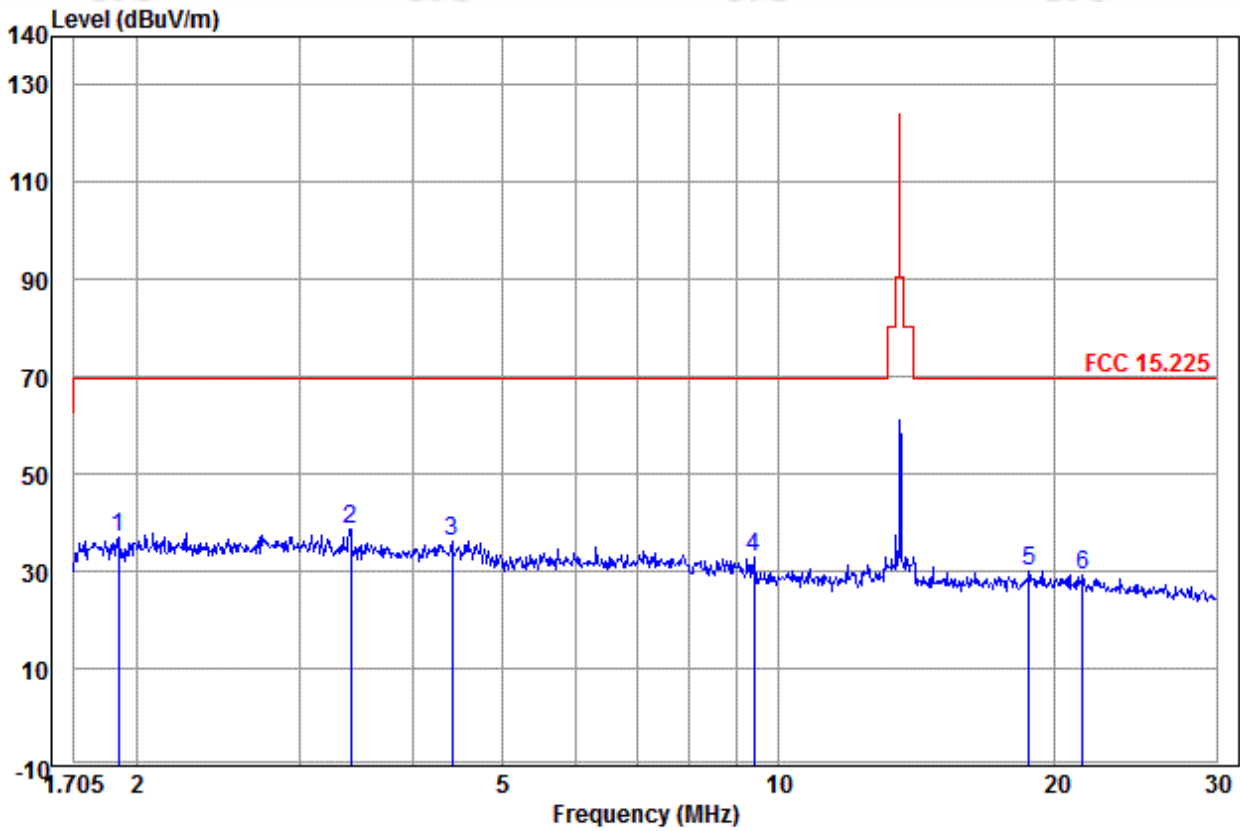
Test data:

9 kHz-1.705MHz



| | 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 | 0.095 | 11.42 | 0.11 | 49.29 | 60.82 | 108.01 | -47.19 | X | QP |
| 2 | 0.108 | 11.40 | 0.11 | 47.99 | 59.50 | 106.97 | -47.47 | X | QP |
| 3 | 0.532 | 11.30 | 0.12 | 37.63 | 49.05 | 73.08 | -24.03 | X | QP |
| 4 | 0.745 | 11.30 | 0.12 | 36.13 | 47.55 | 70.14 | -22.59 | X | QP |
| 5 | 0.978 | 11.39 | 0.13 | 35.27 | 46.79 | 67.76 | -20.97 | X | QP |
| 6 pp | 1.397 | 11.40 | 0.16 | 34.71 | 46.27 | 64.64 | -18.37 | X | QP |

1.705MHz-30MHz



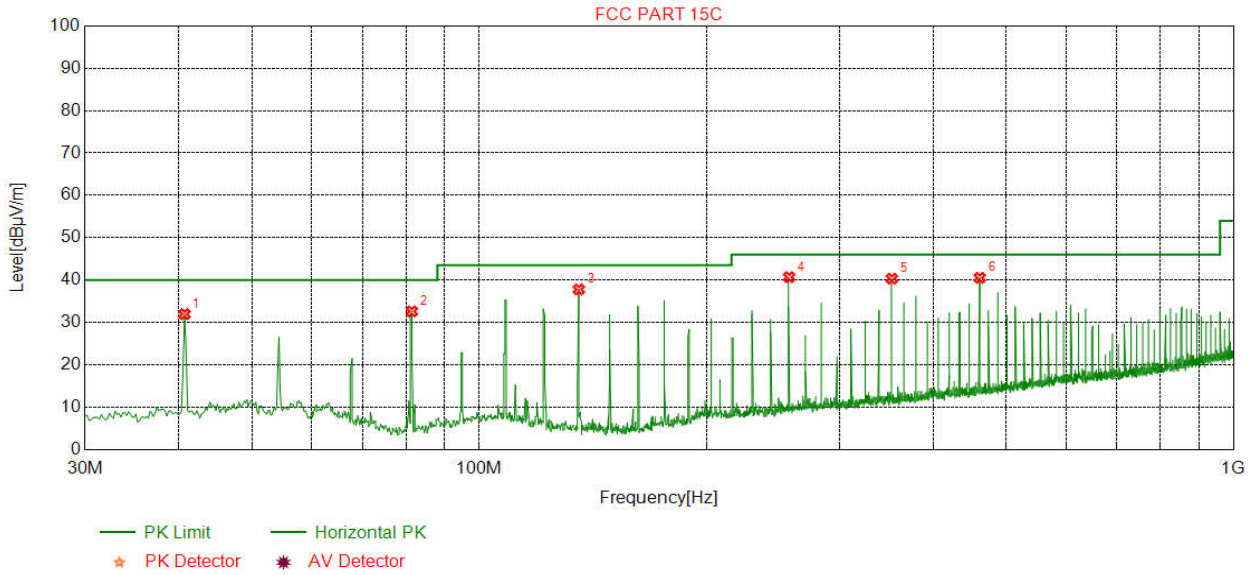
| | Ant Freq | Cable Factor | Read Level | Limit Level | Over Limit | Pol/Phase | Remark |
|------|----------|--------------|------------|-------------|------------|--------------|--------|
| | MHz | dB/m | dB | dBuV | dBuV/m | dB | |
| 1 | 1.907 | 11.40 | 0.20 | 25.54 | 37.14 | 69.50 -32.36 | X QP |
| 2 pp | 3.413 | 11.41 | 0.18 | 27.22 | 38.81 | 69.50 -30.69 | X QP |
| 3 | 4.405 | 11.26 | 0.17 | 24.69 | 36.12 | 69.50 -33.38 | X QP |
| 4 | 9.392 | 10.93 | 0.59 | 21.36 | 32.88 | 69.50 -36.62 | X QP |
| 5 | 18.745 | 10.24 | 0.75 | 19.18 | 30.17 | 69.50 -39.33 | X QP |
| 6 | 21.449 | 9.91 | 0.85 | 18.68 | 29.44 | 69.50 -40.06 | X QP |

Remark: The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case X axis is shown in the report.

30MHz-1GHz

Test Graph

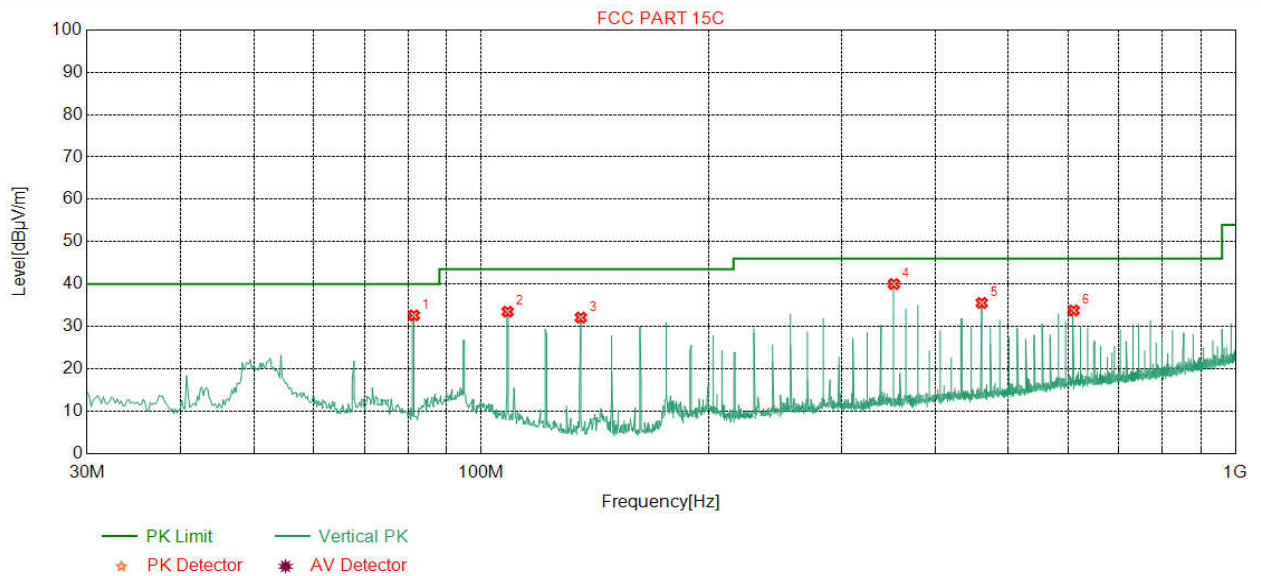
| | | | |
|---------|--------------|----------|--|
| Mode: | Transmitting | Channel: | |
| Remark: | QP | | |



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|------------|--------|------------|
| 1 | 40.6721 | 12.42 | 0.72 | -32.11 | 50.91 | 31.94 | 40.00 | 8.06 | Pass | Horizontal |
| 2 | 81.4203 | 7.43 | 1.05 | -32.08 | 56.19 | 32.59 | 40.00 | 7.41 | Pass | Horizontal |
| 3 | 135.5571 | 7.42 | 1.36 | -32.00 | 60.99 | 37.77 | 43.50 | 5.73 | Pass | Horizontal |
| 4 | 257.6075 | 12.35 | 1.91 | -31.87 | 58.29 | 40.68 | 46.00 | 5.32 | Pass | Horizontal |
| 5 | 352.4925 | 14.35 | 2.24 | -31.86 | 55.59 | 40.32 | 46.00 | 5.68 | Pass | Horizontal |
| 6 | 460.9602 | 16.38 | 2.56 | -31.84 | 53.42 | 40.52 | 46.00 | 5.48 | Pass | Horizontal |

Test Graph

| | | | |
|---------|--------------|----------|--|
| Mode: | Transmitting | Channel: | |
| Remark: | QP | | |



| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|----|-------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|------------|--------|----------|
| 1 | 81.4203 | 7.43 | 1.05 | -32.08 | 56.19 | 32.59 | 40.00 | 7.41 | Pass | Vertical |
| 2 | 108.3917 | 10.92 | 1.23 | -32.07 | 53.39 | 33.47 | 43.50 | 10.03 | Pass | Vertical |
| 3 | 135.5571 | 7.42 | 1.36 | -32.00 | 55.29 | 32.07 | 43.50 | 11.43 | Pass | Vertical |
| 4 | 352.4925 | 14.35 | 2.24 | -31.86 | 55.27 | 40.00 | 46.00 | 6.00 | Pass | Vertical |
| 5 | 460.9602 | 16.38 | 2.56 | -31.84 | 48.43 | 35.53 | 46.00 | 10.47 | Pass | Vertical |
| 6 | 610.1760 | 19.08 | 2.96 | -32.06 | 43.78 | 33.76 | 46.00 | 12.24 | Pass | Vertical |

Remark:

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 + Antenna Factor + Cable Factor – Preamplifier Factor.

7.3 Frequency Tolerance

Test Requirement: 47 CFR Part 15 Subpart C Section 15.225(e)
Test Method: ANSI C63.10-2013
Frequency range: Operation within the band 13.110-14.010 MHz
 The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Requirement :

Test Mode: Transmitter mode
 The EUT was placed in an environmental test chamber and powered such that control element received normal voltage and the transmitter provided maximum RF output.

Method of measurement:

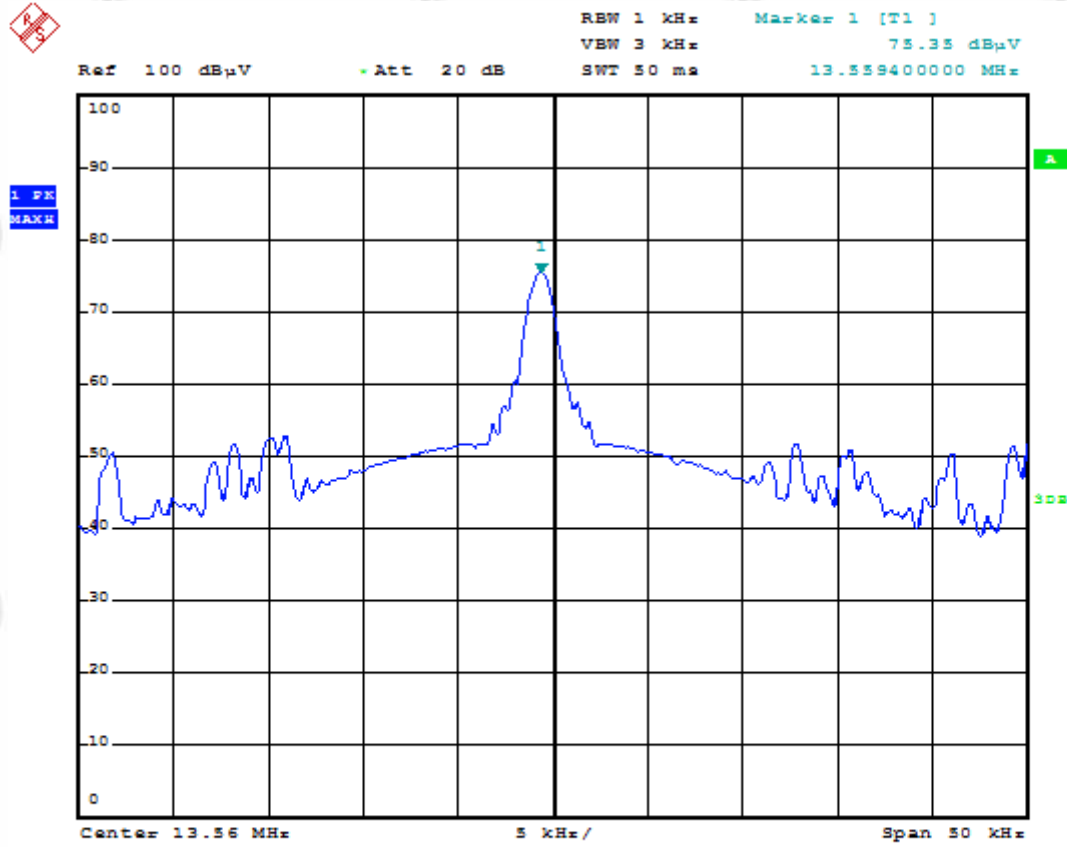
Instruments Used: Refer to section 6 for details

Test Result: Pass

| Test Frequency: 13.56MHz | | Temperature:24°C | | |
|--------------------------|-------------------|------------------|-------------|--------|
| Supply Voltage (V) | Test Result (MHz) | Deviation (kHz) | Limit (kHz) | Result |
| 6.0 | 13.5594 | 0.6 | 1.356 | Pass |

| Test Frequency: 13.56MHz | | Temperature:20°C | | |
|--------------------------|-------------------|------------------|-------------|--------|
| Supply Voltage (V) | Test Result (MHz) | Deviation (kHz) | Limit (kHz) | Result |
| 5.1 | 13.5595 | 0.5 | 1.356 | Pass |
| 5.7 | 13.5601 | 0.1 | 1.356 | Pass |
| 6.3 | 13.5604 | 0.4 | 1.356 | Pass |
| 6.6 | 13.5602 | 0.2 | 1.356 | Pass |
| 6.9 | 13.5606 | 0.6 | 1.356 | Pass |

| Test Frequency: 13.56MHz | | Voltage: 6V | | |
|--------------------------|-------------------|-----------------|-------------|--------|
| Temperature (°C) | Test Result (MHz) | Deviation (kHz) | Limit (kHz) | Result |
| -20 | 13.5602 | 0.2 | 1.356 | Pass |
| -10 | 13.5597 | 0.3 | 1.356 | |
| 0 | 13.5602 | 0.2 | 1.356 | |
| 10 | 13.5603 | 0.3 | 1.356 | |
| 20 | 13.5604 | 0.4 | 1.356 | |
| 30 | 13.5595 | 0.5 | 1.356 | |
| 40 | 13.5607 | 0.7 | 1.356 | |
| 50 | 13.5606 | 0.6 | 1.356 | |



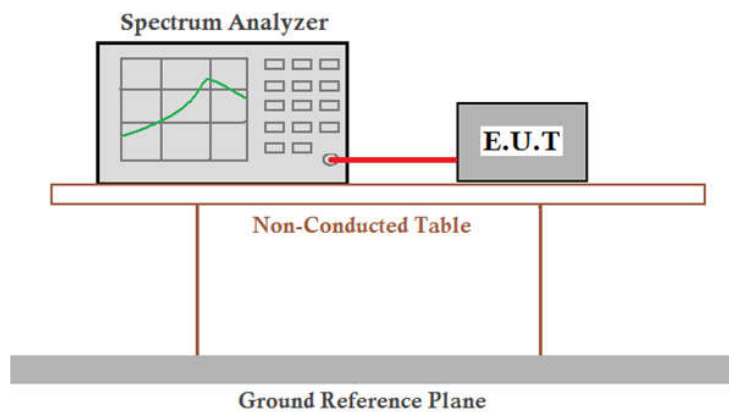
Date: 25.SEP.2018 14:22:08

7.4 Occupied Bandwidth

Test Requirement: 47 CFR Part 15C Section 15.215 (C)
Test Method: ANSI C63.10-2013
Frequency range: Operation within the band 13.110 – 14.010 MHz

Requirement : Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator’s antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be demonstrated by measuring the radiated emissions.

Test Setup:

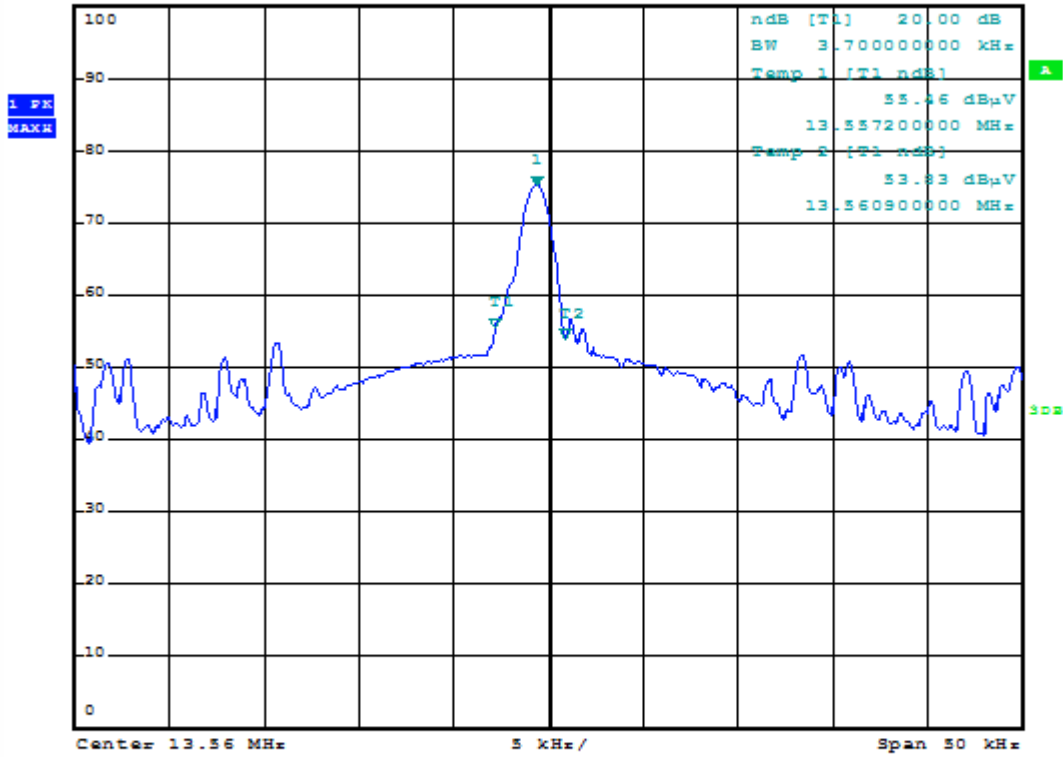


Test Mode: Transmitter mode
Instruments Used: Refer to section 6 for details
Test Result: Pass

The graph as below: represents the emissions take for this device.



RBW 1 kHz Marker 1 [T1]
 VBW 3 kHz 75.25 dB μ V
 Ref 100 dB μ V Att 20 dB SWT 50 ms 13.559400000 MHz



Date: 25.SEP.2018 14:20:50

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

Test Model No.: NMVM-RX



Radiated emission Test Setup (9kHz~30MHz)



Radiated emission Test Setup (30MHz-1GHz)



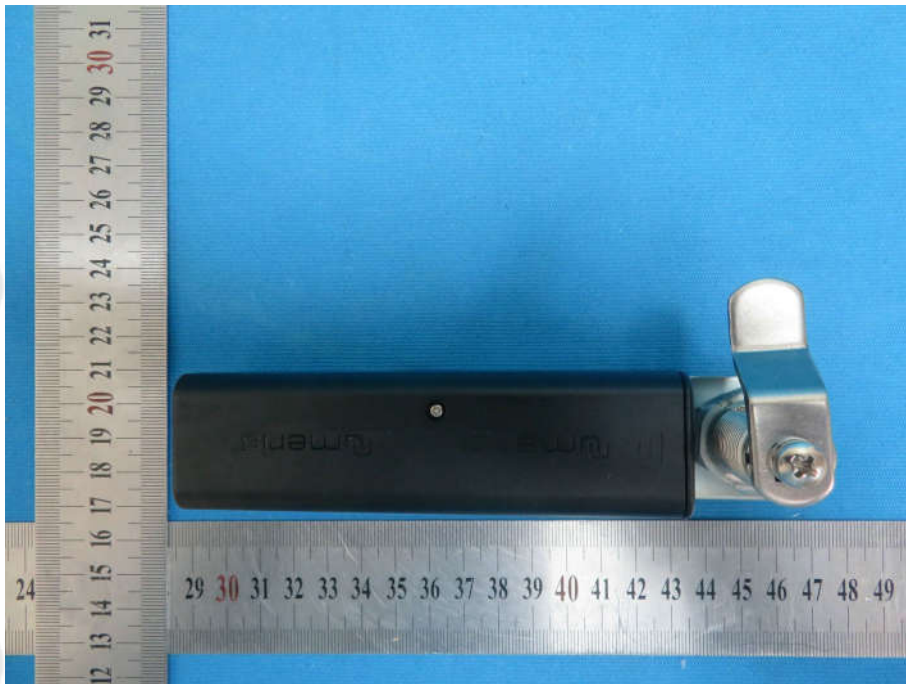
Radiated emission (Close-up)

APPENDIX 2 PHOTOGRAPHS OF EUT

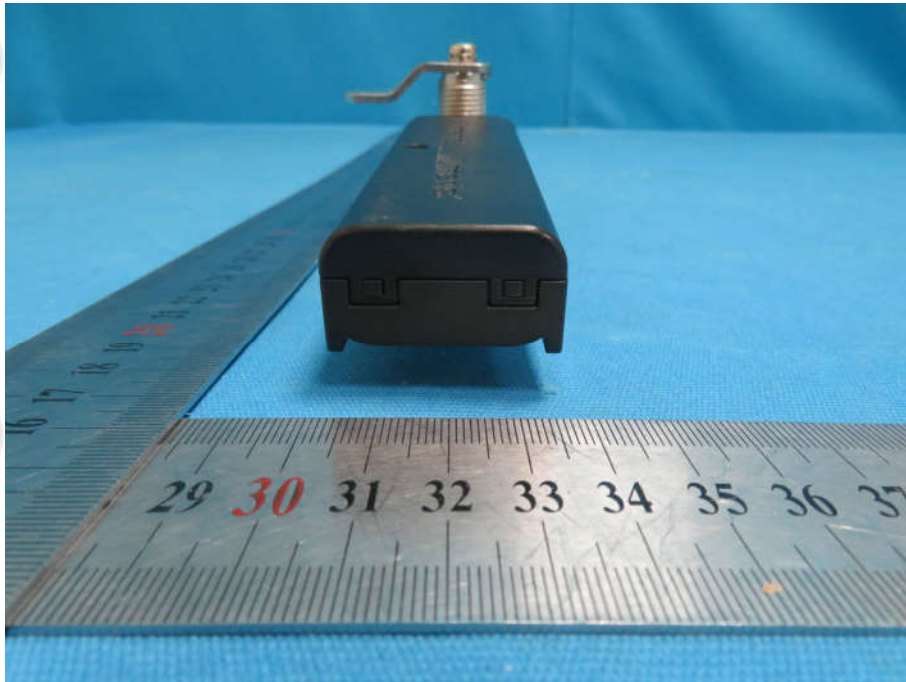
Test mode No.: NMVM-RX



View of Product-1



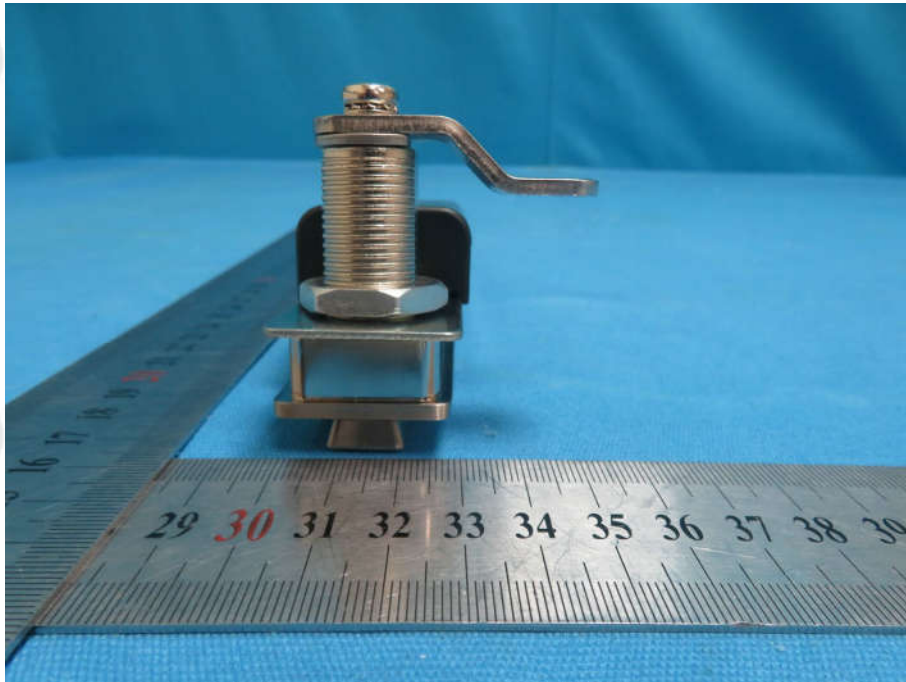
View of Product-2



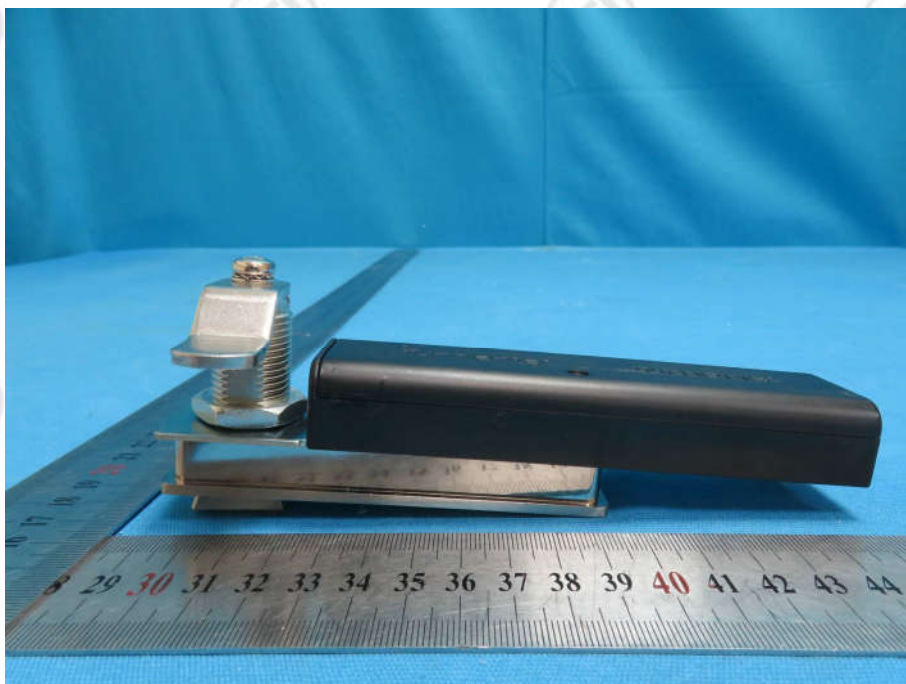
View of Product-3



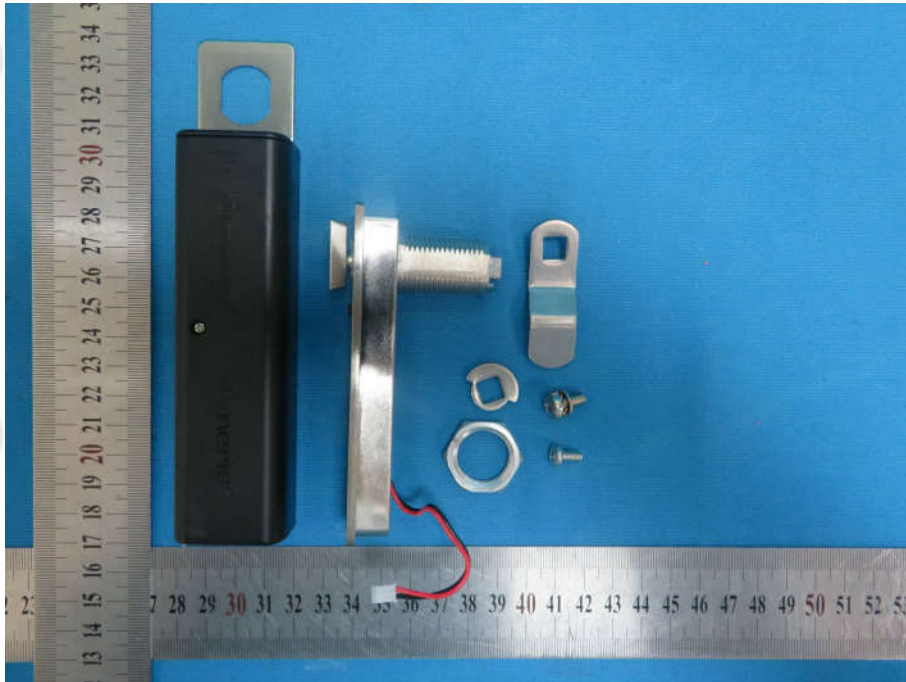
View of Product-4



View of Product-5



View of Product-6



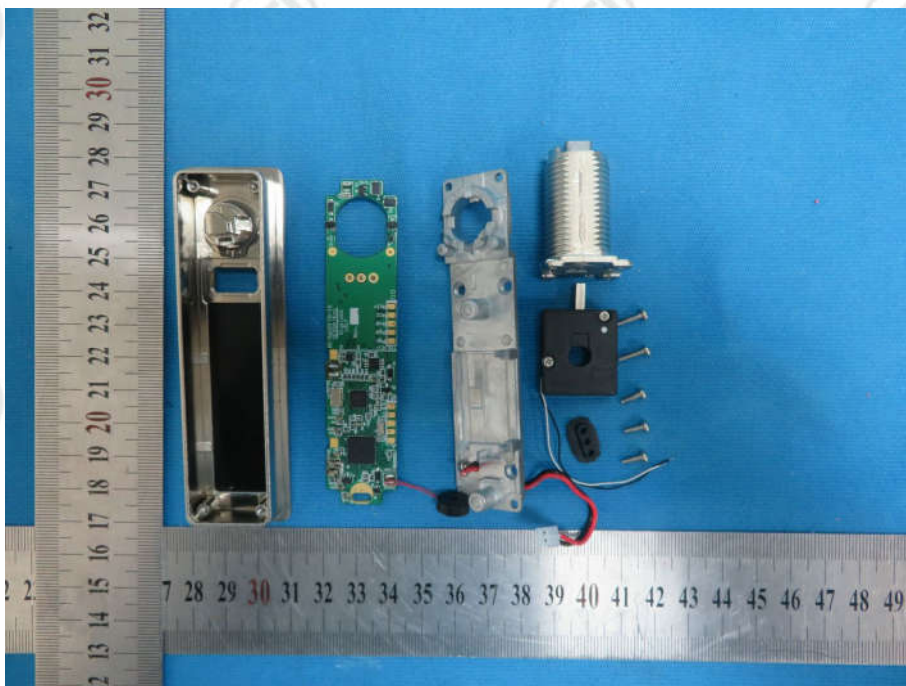
View of Product-7



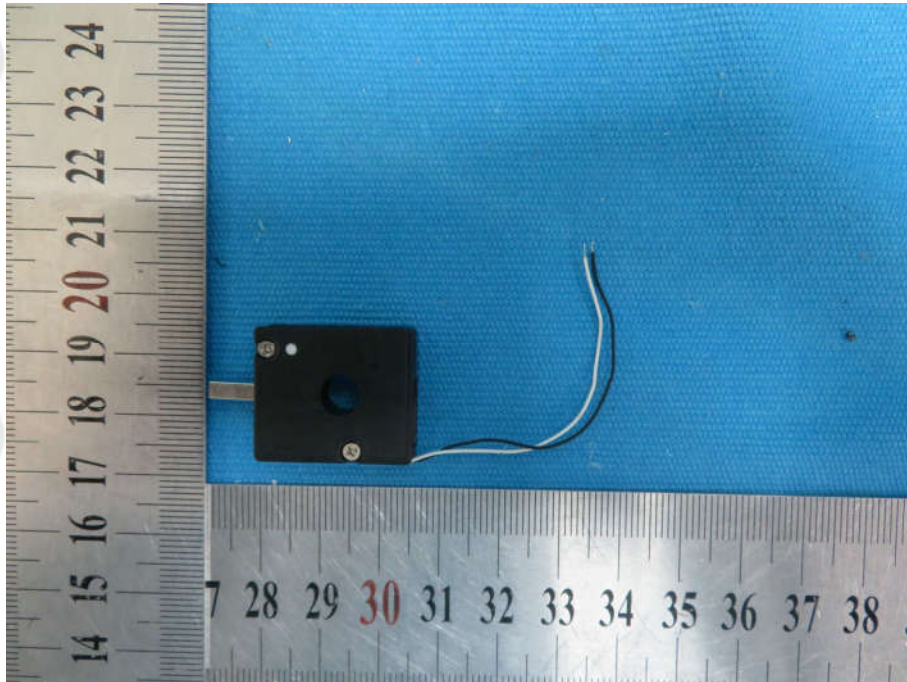
View of Product-8



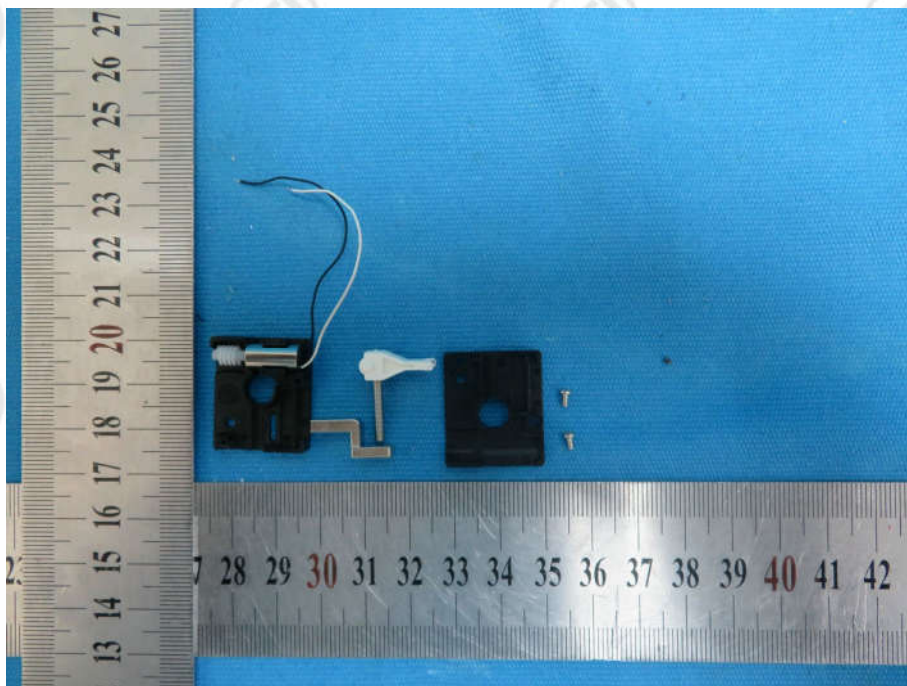
View of Product-9



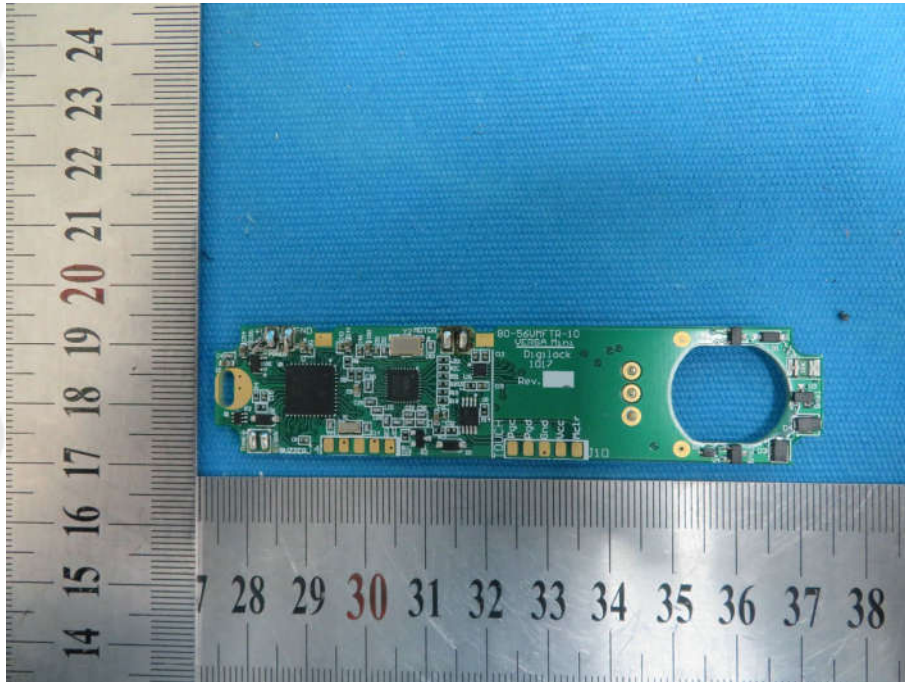
View of Product-10



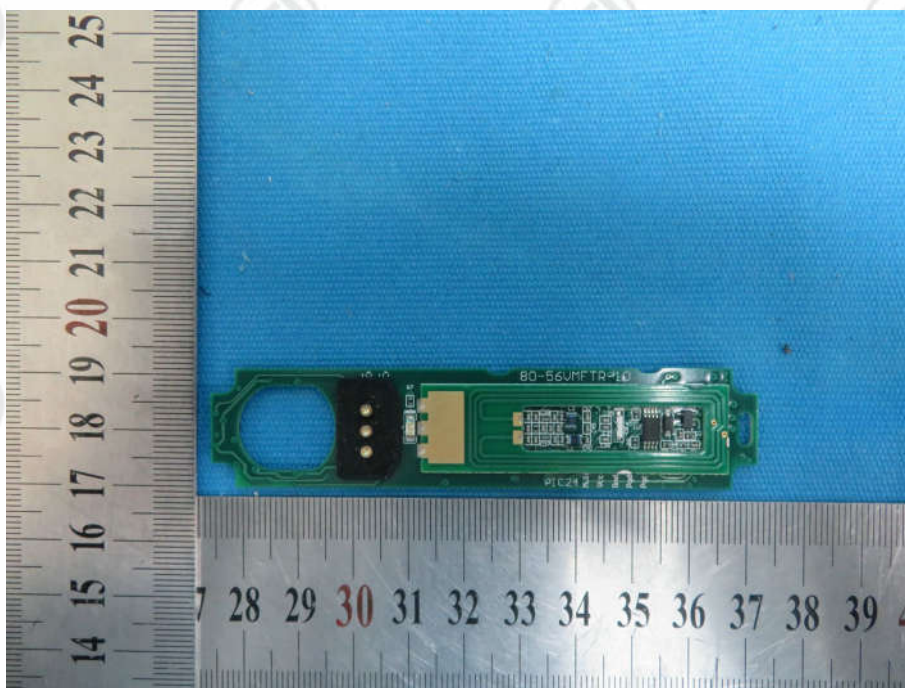
View of Product-11



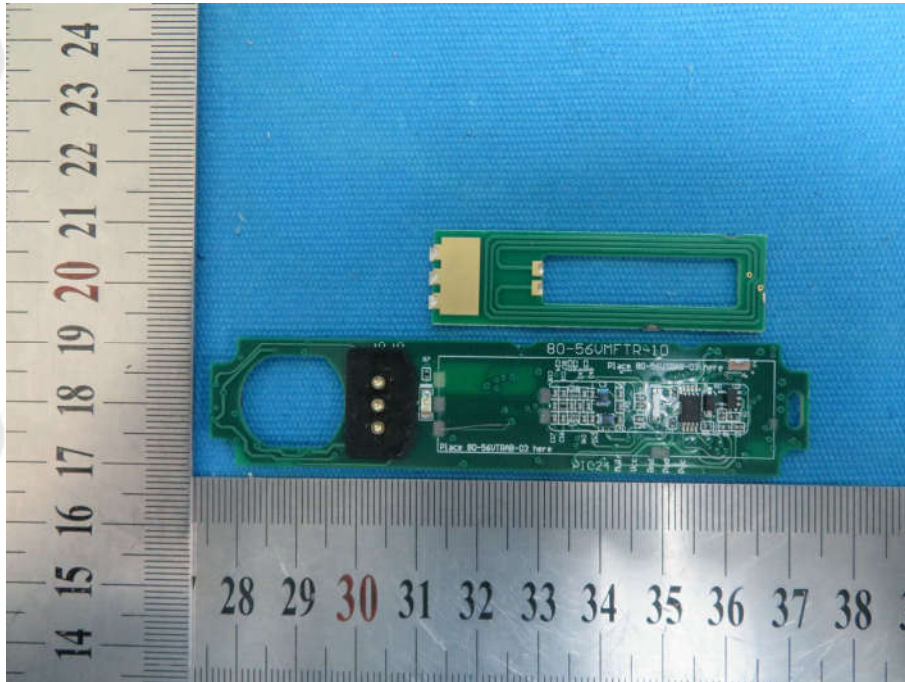
View of Product-12



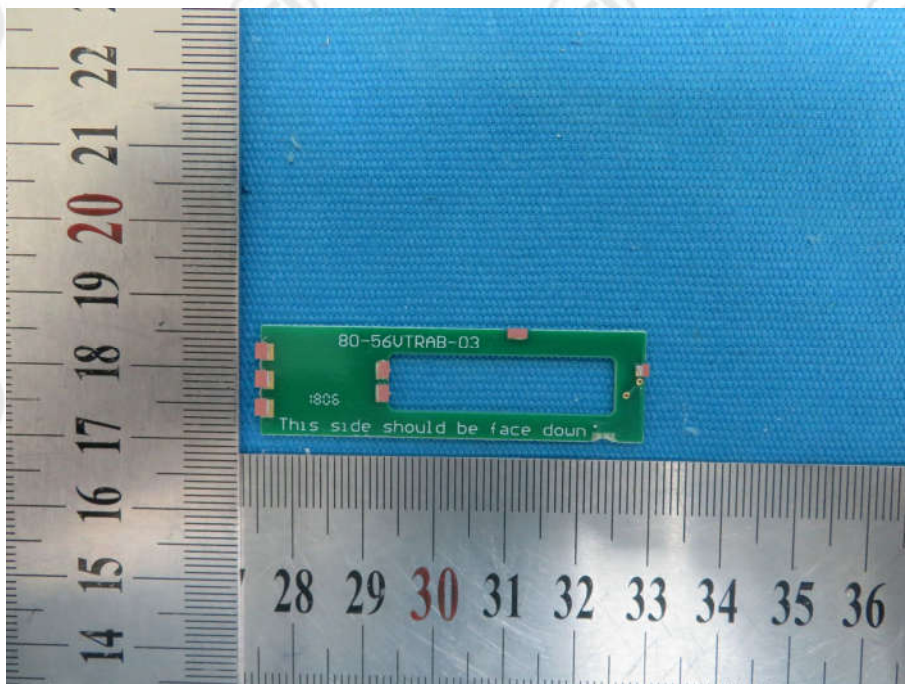
View of Product-13



View of Product-14



View of Product-15



View of Product-16

*** End of Report ***

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