



FCC PART 15.247 TEST REPORT

For

ZTE TRUNKING TECHNOLOGY CORPORATION

4/F, R&D Building 1, ZTE Industrial Park, LiuXian Rd., Xili, Nanshan District, ShenZhen, China

FCC ID: 2AEKCPH7X0V

Report Type: Product Type:

Original Report DIGITAL PORTABLE RADIO

Report Number: RSZ170717002-00C

Report Date: 2017-08-21

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The ZTE TRUNKING TECHNOLOGY CORPORATION's product, model number: PH790 VHF (FCC ID: 2AEKCPH7X0V) or the "EUT" in this report was a DIGITAL PORTABLE RADIO which was measured approximately: 140 mm (L) * 50 mm (W) * 38 mm (H), rated with input voltage: DC 7.4 V battery or DC 12.0V from adapter.

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Adapter 1 Information:

Model: STC-A2O120150C55-C Input: AC 100-240V, 50/60Hz, 0.8A

Output: DC 12.0V, 1.5 A

Adapter 2 Information: Model: SP-21B1201000-U

Input: AC 100-240V, 50/60Hz, 0.45A

Output: DC 12.0V, 1.0 A

Notes: This series products model: PH790 VHF and PH700 VHF are identical; they have the same or similar appearance, structure, PCB, material and function to the testing products. PH790 VHF was selected for fully testing, the detailed information can be referred to the attached declaration which was stated and guaranteed by the applicant.

Objective

This report is prepared on behalf of *ZTE TRUNKING TECHNOLOGY CORPORATION* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

Part 15.247 DSS and Part 90 TNF submissions with FCC ID: 2AEKCPH7X0V.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

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^{*} All measurement and test data in this report was gathered from production sample serial number: 1701692 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2017-07-17.

Measurement Uncertainty

| Parameter | uncertainty | | |
|------------------------------------|-------------|--|--|
| Occupied Channel Bandwidth | ±5% | | |
| RF Output Power with Power meter | ±0.5dB | | |
| RF conducted test with spectrum | ±1.5dB | | |
| AC Power Lines Conducted Emissions | ±1.95dB | | |
| All emissions, radiated | ±4.88dB | | |
| Temperature | ±3°C | | |
| Humidity | ±6% | | |
| Supply voltages | ±0.4% | | |

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Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

Bay Area Compliance Laboratories Corp. (Shenzhen) has been accredited to ISO/IEC 17025 by CNAS (Lab code: L2408). And accredited to ISO/IEC 17025 by NVLAP (Lab code: 200707-0), the FCC Designation No. CN5001 under the KDB 974614 D01.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Bay Area Compliance Laboratories Corp. (Shenzhen) was registered with ISED Canada under ISED Canada Registration Number 3062B.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

For BLE mode, 40 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|--------------------|---------|--------------------|
| 0 | 2402 | 20 | 2442 |
| 1 | 2404 | 21 | 2444 |
| 2 | 2406 | 22 | 2446 |
| 3 | 2408 | 23 | 2448 |
| 4 | 2410 | 24 | 2450 |
| 5 | 2412 | 25 | 2452 |
| 6 | 2414 | 26 | 2454 |
| 7 | 2416 | 27 | 2456 |
| 8 | 2418 | 28 | 2458 |
| 9 | 2420 | 29 | 2460 |
| 10 | 2422 | 30 | 2462 |
| 11 | 2424 | 31 | 2464 |
| 12 | 2426 | 32 | 2466 |
| 13 | 2428 | 33 | 2468 |
| 14 | 2430 | 34 | 2470 |
| 15 | 2432 | 35 | 2472 |
| 16 | 2434 | 36 | 2474 |
| 17 | 2436 | 37 | 2476 |
| 18 | 2438 | 38 | 2478 |
| 19 | 2440 | 39 | 2480 |

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EUT was tested with Channel 0, 19 and 39.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

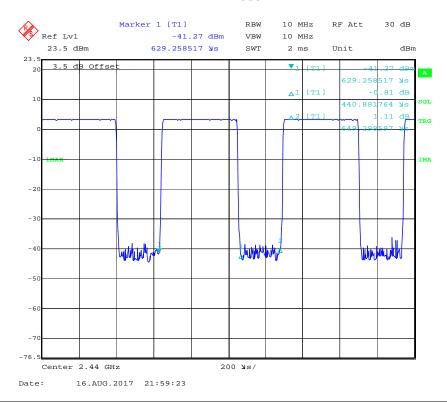
BLE test in the engineer mode and power level is default.

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Duty cycle

BLE Mode

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| Band | Duty Cycle (%) | T(us) | 1/T(kHz) | VBW Setting | 10log(1/ Duty Cycle) |
|------|----------------|-------|----------|-------------|-------------------------|
| BLE | 68 | 440.9 | 2.27 | 3kHz | 1.67 |

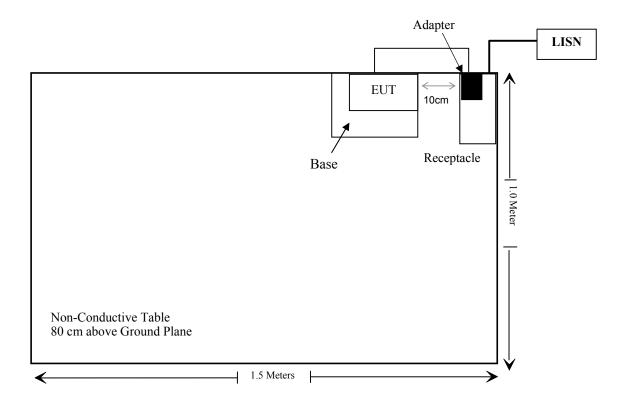
External I/O Cable

| Cable Description | Length (m) | From Port | То |
|--|------------|-----------|---------|
| Un-shielding Un-Detachable DC Power Cable | 1.0 | EUT | Adapter |

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Block Diagram of Test Setup

For conducted emission



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SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|---------------------------------------|--|------------|
| §15.247 (i), §1.1307 (b) (1)& §2.1093 | RF Exposure | Compliance |
| §15.203 | Antenna Requirement | Compliance |
| §15.207 (a) | AC Line Conducted Emissions | Compliance |
| §15.205, §15.209, §15.247(d) | Spurious Emissions | Compliance |
| §15.247 (a)(2) | 6 dB Emission Bandwidth | Compliance |
| §15.247(b)(3) | Maximum Conducted Output Power | Compliance |
| §15.247(d) | 100 kHz Bandwidth of Frequency Band Edge | Compliance |
| §15.247(e) | Power Spectral Density | Compliance |

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TEST EQUIPMENT LIST

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date | | | |
|--------------------------|--|---------------------------------|----------------------------|---------------------|----------------------|--|--|--|
| Conducted Emissions Test | | | | | | | | |
| Rohde & Schwarz | EMI Test Receiver | ESCS30 | 100176 | 2016-10-19 | 2017-10-19 | | | |
| Rohde & Schwarz | LISN | ENV216 | 3560.6650.12- 101613-Yb | 2016-12-07 | 2017-12-07 | | | |
| Rohde & Schwarz | Transient Limiter | ESH3Z2 | DE25985 | 2017-05-21 | 2017-11-19 | | | |
| Rohde & Schwarz | CE Test software | EMC 32 | V8.53.0 | NCR | NCR | | | |
| N/A | Conducted Emission Cable | N/A | UF A210B-1- 0720-504504 | 2017-05-12 | 2017-11-12 | | | |
| | Radia | ated Emission T | est | | | | | |
| Sunol Sciences | Horn Antenna | DRH-118 | A052604 | 2014-12-29 | 2017-12-28 | | | |
| Rohde & Schwarz | Signal Analyzer | FSIQ26 | 8386001028 | 2017-04-24 | 2018-04-24 | | | |
| Mini | Pre-amplifier | ZVA-183-S+ | 5969001149 | 2017-02-14 | 2018-02-14 | | | |
| HP | Amplifier | HP8447E | 1937A01046 | 2017-05-21 | 2017-11-19 | | | |
| Sunol Sciences | Broadband Antenna | JB1 | A040904-2 | 2014-12-17 | 2017-12-16 | | | |
| Rohde & Schwarz | EMI Test Receiver | ESCI | 101120 | 2016-12-07 | 2017-12-07 | | | |
| Ducommun technologies | RF Cable | UFA210A-1- 4724-30050U | MFR64369 223410-001 | 2017-05-21 | 2017-11-19 | | | |
| Ducommun technologies | RF Cable | 104PEA | 218124002 | 2017-05-21 | 2017-11-19 | | | |
| Ducommun technologies | RF Cable | RG-214 | 1 | 2017-05-21 | 2017-11-19 | | | |
| Ducommun technologies | RF Cable | RG-214 | 2 | 2017-05-22 | 2017-11-22 | | | |
| Ducommun Technologies | Horn Antenna | ARH-4223- 02 | 1007726-04 | 2014-12-29 | 2017-12-28 | | | |
| Ducommun Technologies | Pre-amplifier | ALN- 22093530-01 | 991373-01 | 2017-08-03 | 2018-08-03 | | | |
| Sinoscite | Band Reject Filter | BSF2402- 2480MN- 0898-001 | N/A | NCR | NCR | | | |
| | RF | Conducted Tes | t | | | | | |
| Agilent | P-Series Power Meter | N1912A | MY5000448 | 2016-12-05 | 2017-12-05 | | | |
| Agilent | Wideband Power Sensor | N1921A | MY54210016 | 2016-12-05 | 2017-12-05 | | | |
| WEINSCHEL | 10dB Attenuator | 5324 | AU 3842 | 2017-05-23 | 2017-11-22 | | | |
| Rohde & Schwarz | Wideband Radio Communication Tester | CMW500 | 1201.002K50- 146520-wh | 2017-04-24 | 2018-04-24 | | | |
| Rohde & Schwarz | Signal Analyzer | FSIQ26 | 837405/023 | 2017-04-24 | 2018-04-24 | | | |
| Ducommun technologies | RF Cable | RG-214 | 3 | 2017-05-22 | 2017-11-22 | | | |

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^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.247 (i), §1.1307 (b) (1) & §2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

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According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- 1. f(GHz) is the RF channel transmit frequency in GHz.
- 2. Power and distance are rounded to the nearest mW and mm before calculation.
- 3. The result is rounded to one decimal place for comparison.
- 4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Measurement Result

For worst case:

| Mode | Frequency (MHz) | Max Tune-up Conducted Power (dBm) | Max Tune-up Conducted Power (mW) | Calculated Distance (mm) | Calculated value | Threshold (1-g SAR) | SAR Test Exclusion |
|------|--------------------|--|---|--------------------------------|------------------|------------------------|-----------------------|
| BLE | 2480 | 4.0 | 2.51 | 5 | 0.79 | 3.0 | Yes |

Result: No SAR test is required

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FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, 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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT(PH700 VHF) has one internal antenna arrangement which was permanently attached and the antenna gain is 0 dBi. The EUT(PH790 VHF) has one PCB antenna arrangement and the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

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FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

EUT Setup



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Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz |

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

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Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

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Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

| Temperature: | 26 °C |
|--------------------|-----------|
| Relative Humidity: | 54 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Shawn Xiao on 2017-08-10.

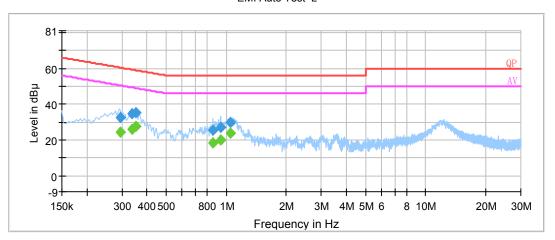
EUT operation mode: Transmitting

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For Adapter 1 AC 120V/60 Hz, Line

EMI Auto Test L

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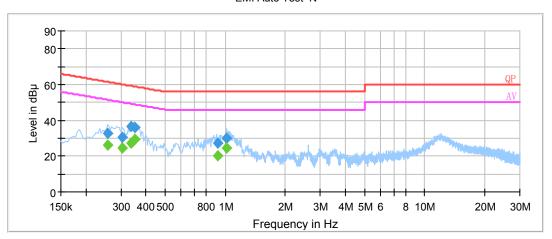
| Frequency (MHz) | Corrected Amplitude (dBµV) | Correction Factor (dB) | Limit (dBµV) | Margin (dB) | Detector (PK/Ave./QP) |
|--------------------|----------------------------------|------------------------------|-----------------|----------------|--------------------------|
| 0.294500 | 32.3 | 20.2 | 60.4 | 28.1 | QP |
| 0.336930 | 34.9 | 20.2 | 59.3 | 24.4 | QP |
| 0.352690 | 35.3 | 20.2 | 58.9 | 23.6 | QP |
| 0.861130 | 25.3 | 20.1 | 56.0 | 30.7 | QP |
| 0.939930 | 27.0 | 20.1 | 56.0 | 29.0 | QP |
| 1.046310 | 29.8 | 20.1 | 56.0 | 26.2 | QP |
| 0.294500 | 24.5 | 20.2 | 50.4 | 25.9 | Ave. |
| 0.336930 | 26.2 | 20.2 | 49.3 | 23.1 | Ave. |
| 0.352690 | 27.3 | 20.2 | 48.9 | 21.6 | Ave. |
| 0.861130 | 18.4 | 20.1 | 46.0 | 27.6 | Ave. |
| 0.939930 | 20.0 | 20.1 | 46.0 | 26.0 | Ave. |
| 1.046310 | 23.9 | 20.1 | 46.0 | 22.1 | Ave. |

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AC 120V/60 Hz, Neutral

EMI Auto Test N

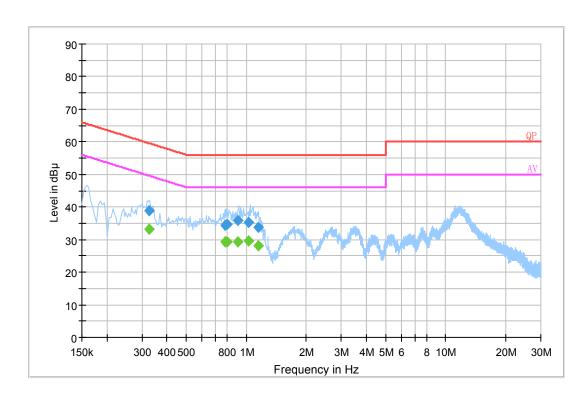
Report No.: RSZ170717002-00C



| Frequency (MHz) | Corrected Amplitude (dBµV) | Correction Factor (dB) | Limit (dBµV) | Margin (dB) | Detector (PK/Ave./QP) |
|--------------------|----------------------------------|------------------------------|-----------------|----------------|--------------------------|
| 0.257500 | 32.5 | 20.2 | 61.5 | 29.0 | QP |
| 0.305410 | 30.7 | 20.2 | 60.1 | 29.4 | QP |
| 0.336930 | 36.3 | 20.2 | 59.3 | 23.0 | QP |
| 0.352690 | 36.2 | 20.2 | 58.9 | 22.7 | QP |
| 0.916410 | 27.5 | 20.1 | 56.0 | 28.5 | QP |
| 1.018730 | 30.2 | 20.1 | 56.0 | 25.8 | QP |
| 0.257500 | 26.0 | 20.2 | 51.5 | 25.5 | Ave. |
| 0.305410 | 24.8 | 20.2 | 50.1 | 25.3 | Ave. |
| 0.336930 | 27.3 | 20.2 | 49.3 | 22.0 | Ave. |
| 0.352690 | 29.5 | 20.2 | 48.9 | 19.4 | Ave. |
| 0.916410 | 20.0 | 20.1 | 46.0 | 26.0 | Ave. |
| 1.018730 | 24.4 | 20.1 | 46.0 | 21.6 | Ave. |

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For Adapter 2 AC 120V/60 Hz, Line

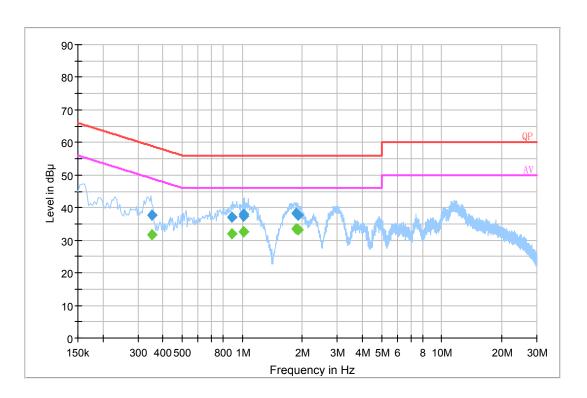


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| Frequency (MHz) | Corrected Amplitude (dBµV) | Correction Factor (dB) | Limit (dBµV) | Margin (dB) | Detector (PK/Ave./QP) |
|--------------------|----------------------------------|------------------------------|-----------------|----------------|--------------------------|
| 0.325110 | 38.9 | 20.2 | 59.6 | 20.7 | QP |
| 0.782090 | 34.3 | 20.0 | 56.0 | 21.7 | QP |
| 0.805730 | 34.6 | 20.0 | 56.0 | 21.4 | QP |
| 0.908170 | 35.9 | 20.1 | 56.0 | 20.1 | QP |
| 1.030310 | 35.2 | 20.1 | 56.0 | 20.8 | QP |
| 1.152690 | 33.8 | 20.1 | 56.0 | 22.2 | QP |
| 0.325110 | 33.2 | 20.2 | 49.6 | 16.4 | Ave. |
| 0.782090 | 29.2 | 20.0 | 46.0 | 16.8 | Ave. |
| 0.805730 | 29.2 | 20.0 | 46.0 | 16.8 | Ave. |
| 0.908170 | 29.4 | 20.1 | 46.0 | 16.6 | Ave. |
| 1.030310 | 29.7 | 20.1 | 46.0 | 16.3 | Ave. |
| 1.152690 | 28.2 | 20.1 | 46.0 | 17.8 | Ave. |

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AC 120V/60 Hz, Neutral



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| Frequency (MHz) | Corrected Amplitude (dBµV) | Correction Factor (dB) | Limit (dBµV) | Margin (dB) | Detector (PK/Ave./QP) |
|-----------------|----------------------------------|------------------------------|-----------------|----------------|--------------------------|
| 0.352750 | 37.5 | 20.2 | 58.9 | 21.4 | QP |
| 0.884590 | 37.0 | 20.1 | 56.0 | 19.0 | QP |
| 1.010850 | 37.4 | 20.1 | 56.0 | 18.6 | QP |
| 1.018670 | 38.0 | 20.1 | 56.0 | 18.0 | QP |
| 1.870010 | 38.2 | 20.1 | 56.0 | 17.8 | QP |
| 1.909350 | 37.8 | 20.1 | 56.0 | 18.2 | QP |
| 0.352750 | 31.8 | 20.2 | 48.9 | 17.1 | Ave. |
| 0.884590 | 32.0 | 20.1 | 46.0 | 14.0 | Ave. |
| 1.010850 | 32.5 | 20.1 | 46.0 | 13.5 | Ave. |
| 1.018670 | 32.7 | 20.1 | 46.0 | 13.3 | Ave. |
| 1.870010 | 33.4 | 20.1 | 46.0 | 12.6 | Ave. |
| 1.909350 | 33.2 | 20.1 | 46.0 | 12.8 | Ave. |

Note:

- 1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
 3) Margin = Limit Corrected Amplitude

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FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

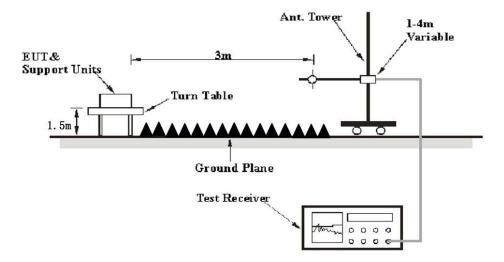
EUT Setup

Below 1 GHz:



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Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

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EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

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| Frequency Range | RBW | Video B/W | IF B/W | Measurements |
|-------------------|---------|--------------|---------|--------------|
| 30 MHz – 1000 MHz | 100 kHz | 300 kHz | 120 kHz | QP |
| | 1MHz | 3 MHz | / | PK |
| Above 1 GHz | 1MHz | 10 Hz Note 1 | / | Ave. |
| | 1MHz | >1/T Note 2 | / | Ave. |

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

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Test Data

Environmental Conditions

| Temperature: | 26 ℃ |
|--------------------|-----------|
| Relative Humidity: | 54 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Shawn Xiao on 2017-08-10.

EUT operation mode: Transmitting

For Model PF790 VHF: 30 MHz-25 GHz:

| Frequency | Re | eceiver | Turntable | Rx Ar | itenna | | Corrected | | C Part /205/209 | | | | |
|-----------|------------------------|--------------------------|-----------|------------|----------------|-------------|-----------------------|-------------------|--------------------|--|--|--|--|
| (MHz) | Reading (dBµV) | Detector (PK/QP/Ave.) | | Height (m) | Polar (H/V) | Factor (dB) | Amplitude (dBµV/m) | Limit (dBµV/m) | Margin (dB) | | | | |
| | Low Channel (2402 MHz) | | | | | | | | | | | | |
| 51.60 | 38.23 | QP | 166 | 1.1 | Н | -11.1 | 27.13 | 40.0 | 12.87 | | | | |
| 2402.00 | 62.39 | PK | 88 | 1.6 | Н | 33.92 | 96.31 | / | / | | | | |
| 2402.00 | 54.08 | Ave. | 88 | 1.6 | Н | 33.92 | 88.00 | / | / | | | | |
| 2402.00 | 58.46 | PK | 290 | 1.6 | V | 33.92 | 92.38 | / | / | | | | |
| 2402.00 | 51.37 | Ave. | 290 | 1.6 | V | 33.92 | 85.29 | / | / | | | | |
| 2355.37 | 26.82 | PK | 211 | 1.9 | Н | 33.92 | 60.74 | 74 | 13.26 | | | | |
| 2355.37 | 13.26 | Ave. | 211 | 1.9 | Н | 33.92 | 47.18 | 54 | 6.82 | | | | |
| 2369.74 | 27.42 | PK | 336 | 1.1 | Н | 33.92 | 61.34 | 74 | 12.66 | | | | |
| 2369.74 | 13.68 | Ave. | 336 | 1.1 | Н | 33.92 | 47.60 | 54 | 6.40 | | | | |
| 2484.45 | 27.33 | PK | 182 | 1.8 | Н | 34.08 | 61.41 | 74 | 12.59 | | | | |
| 2484.45 | 13.54 | Ave. | 182 | 1.8 | Н | 34.08 | 47.62 | 54 | 6.38 | | | | |
| 4804.00 | 44.61 | PK | 50 | 1.6 | Н | 5.84 | 50.45 | 74 | 23.55 | | | | |
| 4804.00 | 30.34 | Ave. | 50 | 1.6 | Н | 5.84 | 36.18 | 54 | 17.82 | | | | |
| | • | 1 | Middle C | hannel | (2440 N | MHz) | | | | | | | |
| 51.60 | 38.39 | QP | 63 | 2.2 | Н | -11.1 | 27.29 | 40.0 | 12.71 | | | | |
| 2440.00 | 62.98 | PK | 345 | 2.0 | Н | 33.92 | 96.90 | / | / | | | | |
| 2440.00 | 57.99 | Ave. | 345 | 2.0 | Н | 33.92 | 91.91 | / | / | | | | |
| 2440.00 | 58.99 | PK | 126 | 1.3 | V | 33.92 | 92.91 | / | / | | | | |
| 2440.00 | 52.94 | Ave. | 126 | 1.3 | V | 33.92 | 86.86 | / | / | | | | |
| 2374.82 | 26.78 | PK | 296 | 2.0 | Н | 33.92 | 60.70 | 74 | 13.30 | | | | |
| 2374.82 | 12.16 | Ave. | 296 | 2.0 | Н | 33.92 | 46.08 | 54 | 7.92 | | | | |
| 2389.64 | 27.33 | PK | 36 | 1.6 | Н | 33.92 | 61.25 | 74 | 12.75 | | | | |
| 2389.64 | 13.52 | Ave. | 36 | 1.6 | Н | 33.92 | 47.44 | 54 | 6.56 | | | | |
| 2487.34 | 27.86 | PK | 332 | 1.9 | Н | 34.08 | 61.94 | 74 | 12.06 | | | | |
| 2487.34 | 14.21 | Ave. | 332 | 1.9 | Н | 34.08 | 48.29 | 54 | 5.71 | | | | |
| 4880.00 | 45.67 | PK | 84 | 2.5 | Н | 6.21 | 51.88 | 74 | 22.12 | | | | |
| 4880.00 | 32.22 | Ave. | 84 | 2.5 | Н | 6.21 | 38.43 | 54 | 15.57 | | | | |

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| Frequency | Re | eceiver | Turntable | Rx Ar | itenna | | Corrected | | C Part 7/205/209 | | | |
|-----------|-------------------------|--------------------------|-----------|------------|----------------|-------------|-----------------------|-------------------|---------------------|--|--|--|
| (MHz) | Reading (dBµV) | Detector (PK/QP/Ave.) | _ | Height (m) | Polar (H/V) | Factor (dB) | Amplitude (dBµV/m) | Limit (dBµV/m) | Margin (dB) | | | |
| | High Channel (2480 MHz) | | | | | | | | | | | |
| 51.60 | 37.39 | QP | 181 | 1.5 | Н | -11.1 | 26.29 | 40.0 | 13.71 | | | |
| 2480.00 | 64.47 | PK | 314 | 2.1 | Н | 34.08 | 98.55 | / | / | | | |
| 2480.00 | 59.22 | Ave. | 314 | 2.1 | Н | 34.08 | 93.30 | / | / | | | |
| 2480.00 | 60.41 | PK | 1 | 2.2 | V | 34.08 | 94.49 | / | / | | | |
| 2480.00 | 55.84 | Ave. | 1 | 2.2 | V | 34.08 | 89.92 | / | / | | | |
| 2325.65 | 27.35 | PK | 60 | 1.4 | Н | 33.83 | 61.18 | 74 | 12.82 | | | |
| 2325.65 | 13.67 | Ave. | 60 | 1.4 | Н | 33.83 | 47.50 | 54 | 6.50 | | | |
| 2483.50 | 29.57 | PK | 325 | 2.0 | Н | 34.08 | 63.65 | 74 | 10.35 | | | |
| 2483.50 | 16.61 | Ave. | 325 | 2.0 | Н | 34.08 | 50.69 | 54 | 3.31 | | | |
| 2484.12 | 26.58 | PK | 221 | 2.0 | Н | 34.08 | 60.66 | 74 | 13.34 | | | |
| 2484.12 | 14.22 | Ave. | 221 | 2.0 | Н | 34.08 | 48.30 | 54 | 5.70 | | | |
| 4960.00 | 44.82 | PK | 145 | 1.6 | Н | 7.82 | 52.64 | 74 | 21.36 | | | |
| 4960.00 | 30.69 | Ave. | 145 | 1.6 | Н | 7.82 | 38.51 | 54 | 15.49 | | | |

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For Model PF700 VHF:

30 MHz - 25 GHz:

| Frequency | Re | eceiver | Turntable | Rx An | tenna | | Corrected | 15.247 | C Part 7/205/209 | | |
|-----------|------------------------|--------------------------|-----------|------------|----------------|-------------|-----------------------|-------------------|---------------------|--|--|
| (MHz) | Reading (dBµV) | Detector (PK/QP/Ave.) | | Height (m) | Polar (H/V) | Factor (dB) | Amplitude (dBµV/m) | Limit (dBµV/m) | Margin (dB) | | |
| | Low Channel (2402 MHz) | | | | | | | | | | |
| 51.60 | 38.23 | QP | 166 | 1.1 | Н | -11.1 | 27.13 | 40.0 | 12.87 | | |
| 2402.00 | 63.54 | PK | 143 | 1.6 | Н | 33.92 | 97.46 | / | / | | |
| 2402.00 | 54.61 | Ave. | 143 | 1.6 | Н | 33.92 | 88.53 | / | / | | |
| 2402.00 | 58.79 | PK | 88 | 2.4 | V | 33.92 | 92.71 | / | / | | |
| 2402.00 | 52.13 | Ave. | 88 | 2.4 | V | 33.92 | 86.05 | / | / | | |
| 2345.38 | 27.16 | PK | 147 | 2.3 | Н | 33.83 | 60.99 | 74 | 13.01 | | |
| 2345.38 | 13.34 | Ave. | 147 | 2.3 | Н | 33.83 | 47.17 | 54 | 6.83 | | |
| 2386.39 | 26.89 | PK | 308 | 2.4 | Н | 33.92 | 60.81 | 74 | 13.19 | | |
| 2386.39 | 13.11 | Ave. | 308 | 2.4 | Н | 33.92 | 47.03 | 54 | 6.97 | | |
| 2484.33 | 27.65 | PK | 153 | 1.1 | Н | 34.08 | 61.73 | 74 | 12.27 | | |
| 2484.33 | 13.84 | Ave. | 153 | 1.1 | Н | 34.08 | 47.92 | 54 | 6.08 | | |
| 4804.00 | 45.36 | PK | 59 | 2.0 | Н | 5.16 | 50.52 | 74 | 23.48 | | |
| 4804.00 | 31.28 | Ave. | 59 | 2.0 | Н | 5.16 | 36.44 | 54 | 17.56 | | |

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| Frequency | Re | eceiver | Turntable | Rx An | itenna | | Corrected | 15.247 | C Part //205/209 | | |
|-----------|---------------------------|--------------------------|-----------|------------|----------------|-------------|-----------------------|-------------------|---------------------|--|--|
| (MHz) | Reading (dBµV) | Detector (PK/QP/Ave.) | | Height (m) | Polar (H/V) | Factor (dB) | Amplitude (dBµV/m) | Limit (dBµV/m) | Margin (dB) | | |
| | Middle Channel (2441 MHz) | | | | | | | | | | |
| 51.60 | 38.39 | QP | 63 | 2.2 | Н | -11.1 | 27.29 | 40.0 | 12.71 | | |
| 2440.00 | 63.42 | PK | 119 | 1.9 | Н | 33.92 | 97.34 | / | / | | |
| 2440.00 | 58.26 | Ave. | 119 | 1.9 | Н | 33.92 | 92.18 | / | / | | |
| 2440.00 | 59.35 | PK | 180 | 2.2 | V | 33.92 | 93.27 | / | / | | |
| 2440.00 | 53.14 | Ave. | 180 | 2.2 | V | 33.92 | 87.06 | / | / | | |
| 2345.68 | 26.94 | PK | 290 | 1.4 | Н | 33.83 | 60.77 | 74 | 13.23 | | |
| 2345.68 | 13.12 | Ave. | 290 | 1.4 | Н | 33.83 | 46.95 | 54 | 7.05 | | |
| 2358.22 | 27.32 | PK | 74 | 1.9 | Н | 33.92 | 61.24 | 74 | 12.76 | | |
| 2358.22 | 13.54 | Ave. | 74 | 1.9 | Н | 33.92 | 47.46 | 54 | 6.54 | | |
| 2486.65 | 27.26 | PK | 152 | 1.6 | Н | 34.08 | 61.34 | 74 | 12.66 | | |
| 2486.65 | 13.48 | Ave. | 152 | 1.6 | Н | 34.08 | 47.56 | 54 | 6.44 | | |
| 4880.00 | 44.13 | PK | 120 | 1.8 | Н | 5.34 | 49.47 | 74 | 24.53 | | |
| 4880.00 | 30.57 | Ave. | 120 | 1.8 | Н | 5.34 | 35.91 | 54 | 18.09 | | |
| | | | High Ch | annel (2 | 2480 M | Hz) | | | | | |
| 51.60 | 37.39 | QP | 181 | 1.5 | Н | -11.1 | 26.29 | 40.0 | 13.71 | | |
| 2480.00 | 64.47 | PK | 193 | 1.0 | Н | 34.08 | 98.55 | / | / | | |
| 2480.00 | 55.36 | Ave. | 193 | 1.0 | Н | 34.08 | 89.44 | / | / | | |
| 2480.00 | 61.83 | PK | 74 | 1.8 | V | 34.08 | 95.91 | / | / | | |
| 2480.00 | 55.23 | Ave. | 74 | 1.8 | V | 34.08 | 89.31 | / | / | | |
| 2377.46 | 27.26 | PK | 181 | 1.8 | Н | 33.92 | 61.18 | 74 | 12.82 | | |
| 2377.46 | 13.48 | Ave. | 181 | 1.8 | Н | 33.92 | 47.40 | 54 | 6.60 | | |
| 2483.57 | 30.21 | PK | 19 | 1.8 | Н | 34.08 | 64.29 | 74 | 9.71 | | |
| 2483.57 | 16.48 | Ave. | 19 | 1.8 | Н | 34.08 | 50.56 | 54 | 3.44 | | |
| 2485.67 | 28.65 | PK | 150 | 2.0 | Н | 34.08 | 62.73 | 74 | 11.27 | | |
| 2485.67 | 14.21 | Ave. | 150 | 2.0 | Н | 34.08 | 48.29 | 54 | 5.71 | | |
| 4960.00 | 44.27 | PK | 351 | 2.5 | Н | 7.82 | 52.09 | 74 | 21.91 | | |
| 4960.00 | 30.44 | Ave. | 351 | 2.5 | Н | 7.82 | 38.26 | 54 | 15.74 | | |

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Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor Corrected Amplitude = Corrected Factor + Reading

Margin = Limit - Corrected. Amplitude

The other spurious emission which is 20dB to the limit was not recorded.

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FCC $\S15.247(a)$ (2) – 6 dB EMISSION BANDWIDTH

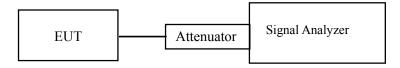
Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Report No.: RSZ170717002-00C

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

| Temperature: | 24 ℃ |
|--------------------|-----------|
| Relative Humidity: | 55 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Shawn Xiao on 2017-08-16.

Test Result: Pass.

Please refer to the following table and plots.

EUT operation mode: Transmitting

| Channel | Frequency (MHz) | 6 dB Emission Bandwidth(MHz) | Limit (kHz) |
|---------|--------------------|---------------------------------|----------------|
| | F | BLE mode | |
| Low | 2402 | 0.713 | ≥500 |
| Middle | 2440 | 0.725 | ≥500 |
| High | 2480 | 0.729 | ≥500 |

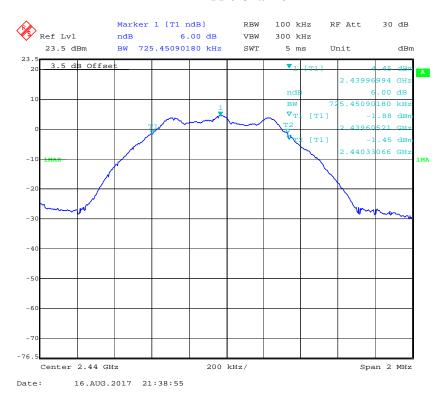
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BLE Low Channel

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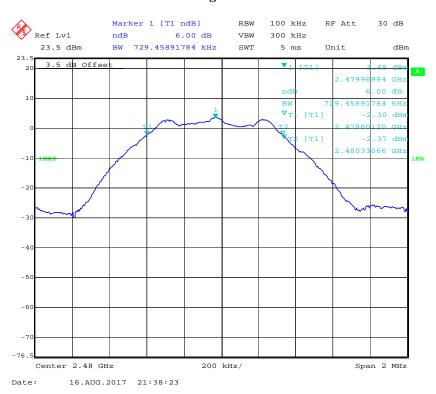
BLE Middle Channel



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BLE High Channel

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FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

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Test Procedure

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Test Data

Environmental Conditions

| Temperature: | 24 ℃ |
|--------------------|-----------|
| Relative Humidity: | 53 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Shawn Xiao on 2017-08-16.

EUT operation mode: Transmitting

BLE mode

| Channel | Frequency (MHz) | Max Peak Output Power (dBm) | Limit (dBm) | Result |
|---------|--------------------|-----------------------------------|----------------|--------|
| Low | 2402 | 2.17 | 30 | Pass |
| Middle | 2440 | 3.94 | 30 | Pass |
| High | 2480 | 2.74 | 30 | Pass |

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FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Report No.: RSZ170717002-00C

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

| Temperature: | 24 ℃ | |
|--------------------|-----------|--|
| Relative Humidity: | 53 % | |
| ATM Pressure: | 101.0 kPa | |

The testing was performed by Shawn Xiao on 2017-08-16.

EUT operation mode: Transmitting

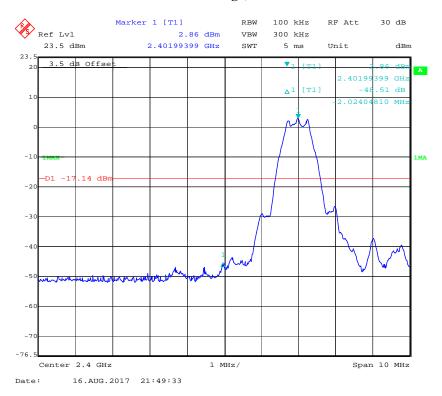
Test Result: Compliance

Please refer to the following plots.

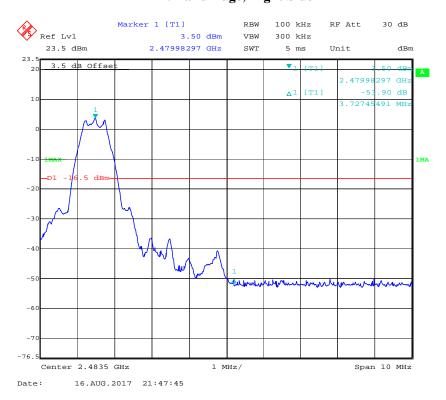
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BLE: Band Edge, Left Side

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BLE: Band Edge, Right Side



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FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Report No.: RSZ170717002-00C

Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW to: $3kHz \le RBW \le 100 \text{ kHz}$.
- 3. Set the VBW $> 3 \times RBW$.
- 4. Set the span to 1.5 times the DTS bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

| Temperature: | 24 ℃ | |
|--------------------|-----------|--|
| Relative Humidity: | 53 % | |
| ATM Pressure: | 101.0 kPa | |

The testing was performed by Shawn Xiao on 2017-08-16.

EUT operation mode: Transmitting

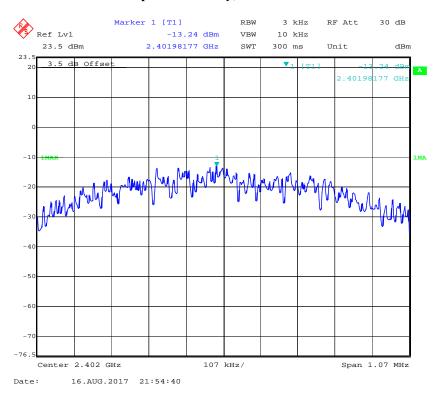
Test Result: Pass

| Channel | Frequency (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | | |
|----------|--------------------|-------------------|---------------------|--|--|
| BLE mode | | | | | |
| Low | 2402 | -13.24 | ≤8 | | |
| Middle | 2440 | -11.75 | ≤8 | | |
| High | 2480 | -12.59 | ≤8 | | |

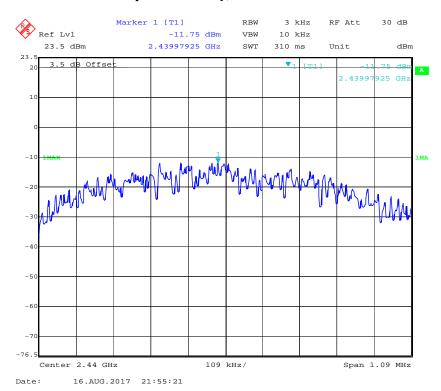
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Power Spectral Density, BLE Low Channel

Report No.: RSZ170717002-00C



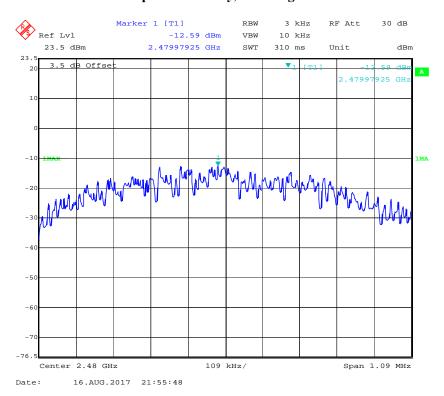
Power Spectral Density, BLE Middle Channel



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Power Spectral Density, BLE High Channel

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***** END OF REPORT *****

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