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Report No.: 2006RSU082-U1 Report Version: V01 Issue Date: 07-22-2020

MEASUREMENT REPORT

FCC PART 15.247 / ISED RSS-247

FCC ID: HD5-DEX-BLE-10

IC: 1693B-DEXBLE10

Applicant: Honeywell International Inc

Honeywell Safety and Productivity Solutions

Application Type: Certification

Product: DEX Adaptor

Model No.: DEX-BLE-10

Brand Name: Honeywell

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15 Subpart C (Section 15.247)

ISED Rule(s): RSS-247 Issue 2, RSS-Gen Issue 5

Test Procedure(s): ANSI C63.10-2013

Test Date: July 13 ~ 21 2020

Reviewed By:

(Jame Yuan)

Approved By: Robin Wu

(Robin Wu)

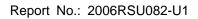




The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.





Revision History

Report No. Version		Description	Issue Date	Note	
2006RSU082-U1	Rev. 01	Initial Report	07-22-2020	Valid	



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General Information

Applicant:	Honeywell International Inc			
	Honeywell Safety and Productivity Solutions			
Applicant Address:	9680 Old Bailes Rd. Fort Mill, SC 29707 United States			
Manufacturer:	Honeywell International Inc			
	Honeywell Safety and Productivity Solutions			
Manufacturer Address:	9680 Old Bailes Rd. Fort Mill, SC 29707 United States			
Test Site:	MRT Technology (Suzhou) Co., Ltd			
Test Site Address:	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development			
	Zone, Suzhou, China			

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is an FCC registered (MRT Designation No. CN1166) test facility with the site description report on file and has met all the requirements specified in ANSI C63.4-2014.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-20025, G-20034, C-20020, T-20020) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications, Radio and SAR testing.





1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada and Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The measurement facility compliant with the test site requirements specified in ANSI C63.4-2014.





2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name:	DEX Adaptor
Model No.:	DEX-BLE-10
Brand Name:	Honeywell
NFC:	Passive
Bluetooth Version:	v4.1 (BLE only)
Serial No.:	20060066

2.2. Product Specification Subjective to this Report

Bluetooth Frequency:	2402 ~ 2480MHz
Type of modulation:	GFSK
Data Rate:	1Mbps
Antenna Type:	PCB Antenna
Max Antenna Gain:	-1.56 dBi



2.3. Working Frequencies for this report

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz				

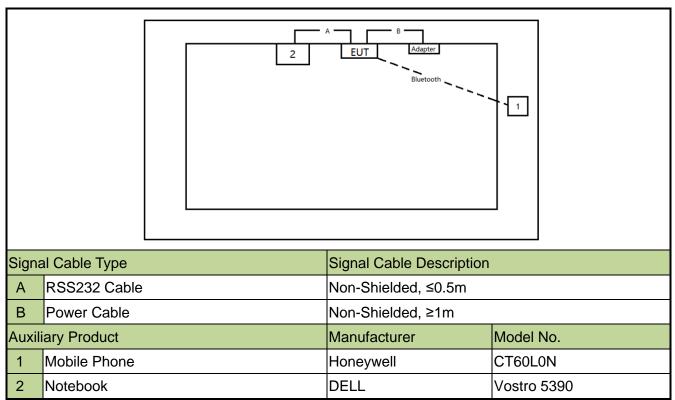
2.4. Duty Cycle

The maximum achievable duty cycle was determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:





2.5. Configuration of Tested System



2.6. Test Software

The test utility software used during testing was "nRF Connect", and the version was "3.3.1".

2.7. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.8. Test Environment Condition

Ambient Temperature	15°C~35°C
Relative Humidity	20%RH ~75%RH



2.9. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

RSS-Gen Issue 5 Section 4

In addition to complying with the applicable RSSs and RSP-100, each unit of a product model (i.e. of a radio apparatus) shall meet the labelling requirements set out in this section prior to being marketed in Canada or imported into Canada.

For information regarding the labelling option, see Section 4.1, 4.2, 4.3 4.4. The label for the certified product represents the manufacturer's or importer's compliance with Innovation, Science and Economic Development Canada's (ISED) regulatory requirements.

Please see attachment for IC label and label location.



3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013) was used in the measurement of the device.

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, $50\Omega/50uH$ Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions were used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.



3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the Antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable. For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive Antenna height using a broadband Antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn Antennas were used. For frequencies below 30MHz, a calibrated loop Antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband Antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive Antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn Antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive Antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive Antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn Antenna, the horn Antenna should be always directed to the EUT when rising height.



4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the device is **permanently attached.**
- There are no provisions for connection to an external antenna.

Conclusion:

The device unit complies with the requirement of §15.203.



5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2021/01/18
Two-Line V-Network	R&S	ENV 216	MRTSUE06002	1 year	2021/06/11
Two-Line V-Network	R&S	ENV 216	MRTSUE06003	1 year	2021/06/11
Thermohygrometer	Testo	608-H1	MRTSUE06404	1 year	2020/08/08
Shielding Room	MIX-BEP	Chamber-SR2	MRTSUE06215	N/A	N/A

Radiated Emissions - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2021/01/18
PXA Signal Analyzer	Keysight	9030B	MRTSUE06395	1 year	2020/09/03
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2020/11/13
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2021/04/03
Broad Band Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2020/10/13
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2020/12/17
Microwave System Amplifier	Agilent	83017A	MRTSUE06076	1 year	2020/11/15
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2021/06/11
Thermohygrometer	Testo	608-H1	MRTSUE06403	1 year	2020/08/08
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06212	1 year	2021/04/30

Radiated Emission - AC2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Keysight	N9038A	MRTSUE06125	1 year	2020/08/01
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2020/11/13
Bilog Period Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2020/10/13
Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06171	1 year	2020/10/27
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2020/12/17
Broadband Coaxial Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2020/11/15
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2021/06/11
Temperature/Humidity Meter	Minggao	ETH529	MRTSUE06170	1 year	2020/12/15
Anechoic Chamber	RIKEN	Chamber-AC2	MRTSUE06213	1 year	2021/04/30



Conducted Test Equipment - TR3

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2021/04/14
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06452	1 year	2021/01/08
Signal Analyzer	R&S	FSV40	MRTSUE06218	1 year	2021/04/14
Power Meter	Agilent	U2021XA	MRTSUE06030	1 year	2020/11/18
USB wideband power sensor	Keysight	U2021XA	MRTSUE06446	1 year	2021/06/11
USB wideband power sensor	Keysight	U2021XA	MRTSUE06447	1 year	2021/06/11
Bluetooth Test Set	Anritsu	MT8852B-042	MRTSUE06389	1 year	2021/06/11
Audio Analyzer	Agilent	U8903B	MRTSUE06143	1 year	2021/06/11
Modulation Analyzer	HP	8901A	MRTSUE06098	1 year	2020/10/10
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	1 year	2020/11/07
DC Power Supply	GWINSTEK	DPS-3303C	MRTSUE06064	N/A	N/A
Attenuator	MVE	6dB	MRTSUE06534	1 year	2020/12/12
Attenuator	MVE	10dB	MRTSUE06543	1 year	2020/12/12
Temperature & Humidity Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2020/11/07
Thermohygrometer	testo	608-H1	MRTSUE06401	1 year	2020/08/08

Software	Version	Function
EMI Software	V3	EMI Test Software





6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

AC Conducted Emission Measurement

Measurement Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

9kHz~150kHz: 3.74dB 150kHz~30MHz: 3.44dB

Radiated Disturbance

Measurement Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

Horizontal: 30MHz~300MHz: 5.04dB

300MHz~1GHz: 4.95dB 1GHz~40GHz: 6.40dB

Vertical: 30MHz~300MHz: 5.24dB

300MHz~1GHz: 6.03dB 1GHz~40GHz: 6.40dB

Spurious Emissions, Conducted

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

0.78dB

Output Power

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

1.13dB

Power Spectrum Density

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

1.15dB

Occupied Bandwidth

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

0.28%



7. TEST RESULT

7.1. Summary

FCC Section(s)	ISED Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [5.2]	6dB Bandwidth	≥ 500kHz		Pass	Section
N/A	RSS-Gen [6.7]	99% Bandwidth	N/A		Pass	7.2
15.247(b)(3)	RSS-247 [5.4(d)]	Output Power	≤ 1Watt & EIRP ≤ 4Watt		Pass	Section 7.3
15.247(e)	RSS-247 [5.2]	Power Spectral Density	≤ 8dBm/3kHz	Conducted Pa	Pass	Section 7.4
15.247(d)	RSS-247 [5.5]	Band Edge / Out-of-Band Emissions	20dBc		Pass	Section 7.5
15.205 15.209	RSS-247 [5.5]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass	Section 7.6 & 7.7
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.8

Notes:

- 1) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.



7.2. Occupied Bandwidth Measurement

7.2.1.Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

7.2.2.Test Procedure used

ANSI C63.10-2013 - Section 11.8 (6dB bandwidth)

ANSI C63.10-2013 - Section 6.9.3 (99% bandwidth)

7.2.3.Test Setting

For 6dB bandwidth

- The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. Set RBW = 100 kHz
- 3. VBW ≥ 3 × RBW
- 4. Detector = Peak
- 5. Trace mode = Max hold
- 6. Sweep = Auto couple
- 7. Allow the trace was allowed to stabilize

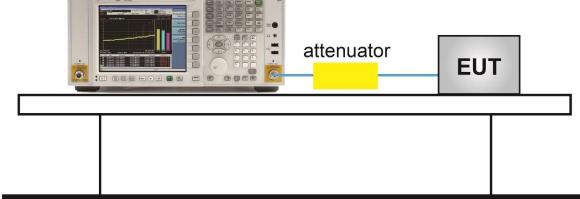
For 99% bandwidth

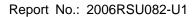
- 1. Span = 1.5 times to 5 times the OBW
- 2. Set RBW = 1% to 5% the OBW
- 3. VBW ≥ 3 × RBW
- 4. Detector = Peak
- 5. Trace mode = Max hold
- 6. Sweep = Auto couple
- 7. Allow the trace was allowed to stabilize



7.2.4.Test Setup









7.2.5.Test Result

Product	DEX Adaptor	Test Engineer	Liz Yuan
Test Site	TR3	Test Date	2020/07/20

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	99% Bandwidth (kHz)	Result
BLE	1	00	2402	701.9	≥ 500	1054.3	Pass
BLE	1	19	2440	706.8	≥ 500	1055.1	Pass
BLE	1	39	2480	723.1	≥ 500	1044.9	Pass









7.3. Output Power Measurement

7.3.1.Test Limit

The maximum out power shall be less 1 Watt (30dBm) and the E.I.R.P shall not exceed 4 Watt (36.02dBm).

7.3.2.Test Procedure Used

ANSI C63.10-2013 Section 11.9.1.3

ANSI C63.10-2013 Section 11.9.2.3.2

7.3.3.Test Setting

Method PKPM (Peak Power Measurement)

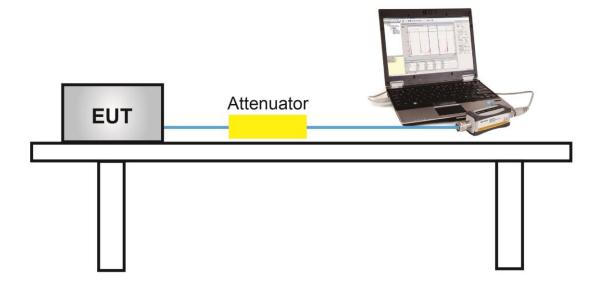
Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

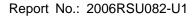
Method AVGPM-G (Measurement using a gated RF average-reading power meter)

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since this measurement is made only during the ON time of the transmitter, no duty cycle correction is required.



7.3.4.Test Setup







7.3.5.Test Result of Output Power

Product	DEX Adaptor	Test Engineer	Liz Yuan
Test Site	TR3	Test Date	2020/07/20

Test Result of Peak Output Power

Test	Data Rate	Channel	Frequency	Peak Power	Limit	Max EIRP	EIRP Limit	Result
Mode	(Mbps)	No.	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	
BLE	1	00	2402	-3.34	≤ 30.00	-4.90	≤ 36.02	Pass
BLE	1	19	2440	-3.92	≤ 30.00	-5.48	≤ 36.02	Pass
BLE	1	39	2480	-4.58	≤ 30.00	-6.14	≤ 36.02	Pass

Note: Max EIRP (dBm) = Peak Power (dBm) + Antenna Gain (dBi), Antenna Gain = -1.56dBi.

Test Result of Average Output Power (Reporting Only)

Test	Data Rate	Channel	Frequency	Average	Limit	Max EIRP	EIRP Limit	Result
Mode	(Mbps)	No.	(MHz)	Power	(dBm)	(dBm)	(dBm)	
				(dBm)				
BLE	1	00	2402	-3.44	≤ 30.00	-5.00	≤ 36.02	Pass
BLE	1	19	2440	-4.02	≤ 30.00	-5.58	≤ 36.02	Pass
BLE	1	39	2480	-4.68	≤ 30.00	-6.24	≤ 36.02	Pass

Note: Max EIRP (dBm) = Average Power (dBm) + Antenna Gain (dBi), Antenna Gain = -1.56dBi.



7.4. Power Spectral Density Measurement

7.4.1.Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

7.4.2.Test Procedure Used

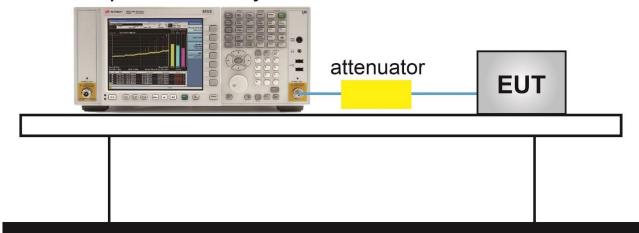
ANSI C63.10-2013 Section 11.10.2

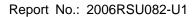
7.4.3.Test Setting

- 1. Analyzer was set to the center frequency of the DTS channel under investigation
- 2. Span = 1.5 times the DTS channel bandwidth
- 3. RBW = 3kHz
- 4. VBW = 10kHz
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Trace was allowed to stabilize

7.4.4.Test Setup

Spectrum Analyzer



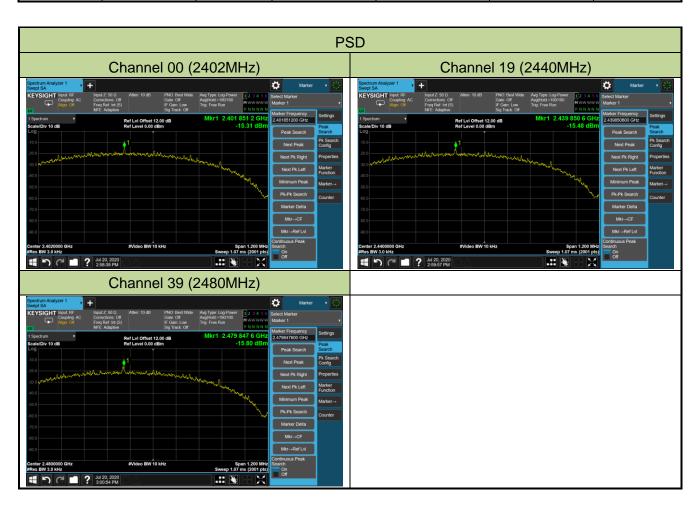




7.4.5.Test Result

Product	DEX Adaptor	Test Engineer	Liz Yuan
Test Site	TR3	Test Date	2020/07/20

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1	00	2402	-15.31	≤ 8.00	Pass
BLE	1	19	2440	-15.48	≤ 8.00	Pass
BLE	1	39	2480	-15.80	≤ 8.00	Pass





7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1.Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure.

7.5.2.Test Procedure Used

ANSI C63.10-2013 Section 11.11

7.5.3.Test Settitng

Reference level measurement

- 1. Set instrument center frequency to DTS channel center frequency
- 2. Set the span to ≥ 1.5 times the DTS bandwidth
- 3. Set the RBW = 100 kHz
- 4. Set the VBW \geq 3 x RBW
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Allow trace to fully stabilize

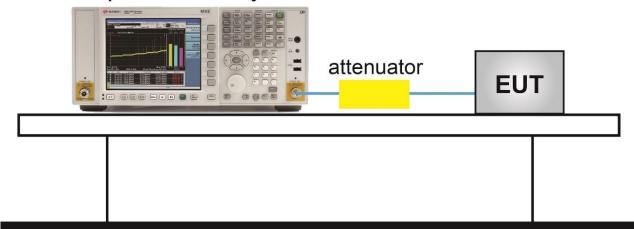
Emission level measurement

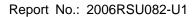
- 1. Set the center frequency and span to encompass frequency range to be measured
- 2. RBW = 100kHz
- 3. VBW = 300kHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize



7.5.4.Test Setup

Spectrum Analyzer



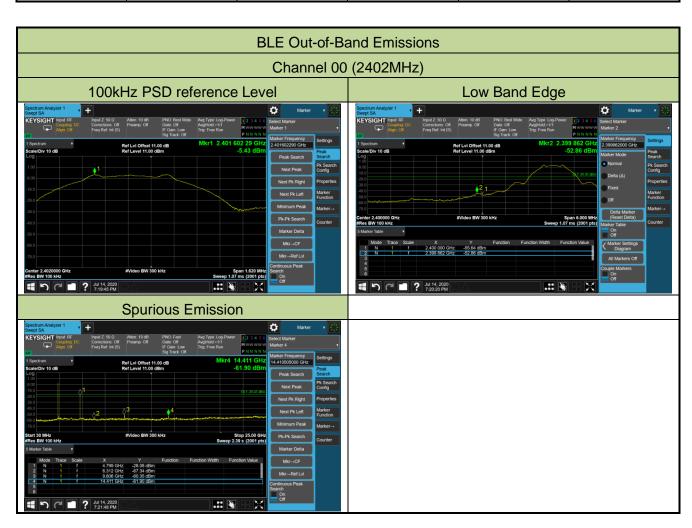




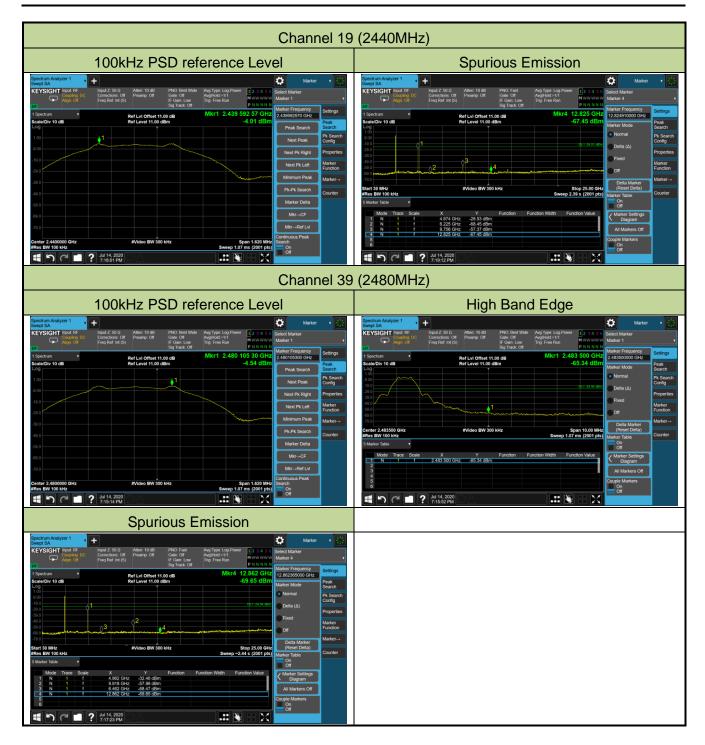
7.5.5.Test Result

Product	DEX Adaptor	Test Engineer	Liz Yuan
Test Site	TR3	Test Date	2020/07/14

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Limit	Result
BLE	1	00	2402	20dBc	Pass
BLE	1	19	2440	20dBc	Pass
BLE	1	39	2480	20dBc	Pass









7.6. Radiated Spurious Emission Measurement

7.6.1.Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in below table.

FCC Part 15 Subpart C Paragraph 15.209 & RSS-Gen Section 8.9						
Frequency	Field Strength	Measured Distance				
[MHz]	[uV/m]	[Meters]				
0.009 - 0.490	2400/F (kHz)	300				
0.490 - 1.705	24000/F (kHz)	30				
1.705 - 30	30	30				
30 - 88	100	3				
88 - 216	150	3				
216 - 960	200	3				
Above 960	500	3				

7.6.2.Test Procedure Used

ANSI C63.10-2013 Section 6.3 (General Requirements)

ANSI C63.10-2013 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10-2013 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10-2013 Section 6.6 (Standard test method above 1GHz)

7.6.3.Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW		
9 ~ 150 kHz	200 ~ 300 Hz		
0.15 ~ 30 MHz	9 ~ 10 kHz		
30 ~ 1000 MHz	100 ~ 120 kHz		
> 1000 MHz	1 MHz		



Quasi-Peak Measurements below 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = as specified in Table 1
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

Average Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

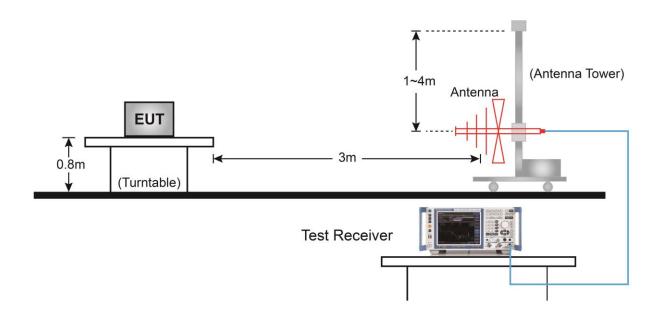
If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

- 4. Detector = Peak
- 5. Sweep time = auto
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

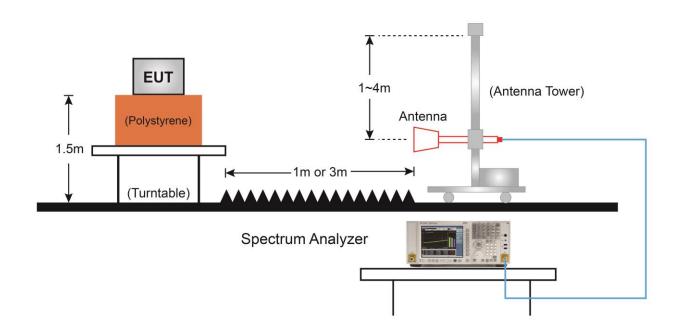


7.6.4.Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:





7.6.5.Test Result

Product	DEX Adaptor	Test Engineer	Antony Yang			
Test Site	AC1	Test Date	2020/07/16			
Test Mode:	BLE	Test Channel:	00			
Remark:	Average measurement was not performed if peak level lower than average					
	limit.					
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show					
	in the report.					

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	4026.0	36.0	-2.5	33.5	74.0	-40.5	Peak	Horizontal
	4799.5	51.7	0.2	51.9	74.0	-22.1	Peak	Horizontal
*	6567.5	33.2	4.8	38.0	74.0	-36.0	Peak	Horizontal
*	9814.5	30.4	10.7	41.1	74.0	-32.9	Peak	Horizontal
	4068.5	36.4	-2.7	33.7	74.0	-40.3	Peak	Vertical
	4799.5	52.5	0.2	52.7	74.0	-21.3	Peak	Vertical
*	6958.5	33.8	6.5	40.3	74.0	-33.7	Peak	Vertical
*	10358.5	29.8	12.6	42.4	74.0	-31.6	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Product	DEX Adaptor	Test Engineer	Antony Yang			
Test Site	AC1	Test Date	2020/07/16			
Test Mode:	BLE	Test Channel:	19			
Remark:	Average measurement was not performed if peak level lower than average					
	limit.					
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show					
	in the report.					

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4034.5	35.9	-2.5	33.4	74.0	-40.6	Peak	Horizontal
	4876.0	49.1	-0.4	48.7	74.0	-25.3	Peak	Horizontal
*	7103.0	33.9	7.6	41.5	74.0	-32.5	Peak	Horizontal
*	9670.0	33.4	10.7	44.1	74.0	-29.9	Peak	Horizontal
	4026.0	37.2	-2.5	34.7	74.0	-39.3	Peak	Vertical
	4876.0	49.3	-0.4	48.9	74.0	-25.1	Peak	Vertical
*	5972.5	36.2	2.1	38.3	74.0	-35.7	Peak	Vertical
*	9899.5	32.2	11.1	43.3	74.0	-30.7	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Product	DEX Adaptor	Test Engineer	Antony Yang			
Test Site	AC1	Test Date	2020/07/16			
Test Mode:	BLE	Test Channel:	39			
Remark:	Average measurement was not performed if peak level lower than average					
	limit.					
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show					
	in the report.					

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4017.5	35.8	-2.6	33.2	74.0	-40.8	Peak	Horizontal
	4961.0	44.7	-0.2	44.5	74.0	-29.5	Peak	Horizontal
*	6015.0	33.8	2.5	36.3	74.0	-37.7	Peak	Horizontal
*	10163.0	32.2	11.7	43.9	74.0	-30.1	Peak	Horizontal
	4102.5	35.4	-2.4	33.0	74.0	-41.0	Peak	Vertical
	4961.0	44.1	-0.2	43.9	74.0	-30.1	Peak	Vertical
*	6559.0	32.9	4.5	37.4	74.0	-36.6	Peak	Vertical
*	9670.0	32.3	10.7	43.0	74.0	-31.0	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

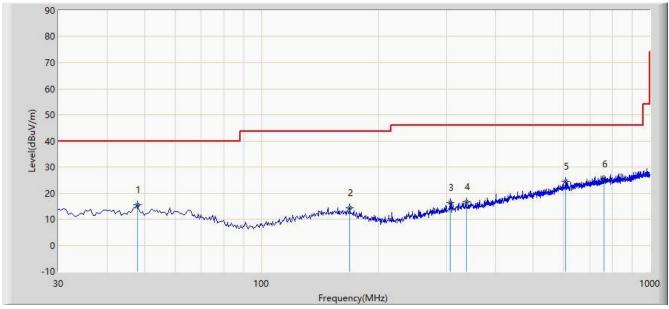
Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



The test result of Radiated Emission below 1GHz:

Site: AC2	Time: 2020/07/16 - 16:08			
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao			
Probe: AC2_VULB9162_0.03-7GHz	Polarity: Horizontal			
EUT: DEX Adaptor	Power: By Battery			
Transmit by BLE at channel 2402MHz				



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)		
				(dBuV/m)	(dBuV)				
1			47.945	15.385	0.896	-24.615	40.000	14.490	QP
2			168.710	14.267	0.148	-29.233	43.500	14.119	QP
3			305.965	16.252	1.213	-29.748	46.000	15.039	QP
4			336.520	16.603	0.770	-29.397	46.000	15.833	QP
5			606.180	24.456	2.375	-21.544	46.000	22.081	QP
6		*	760.410	25.236	0.577	-20.764	46.000	24.659	QP

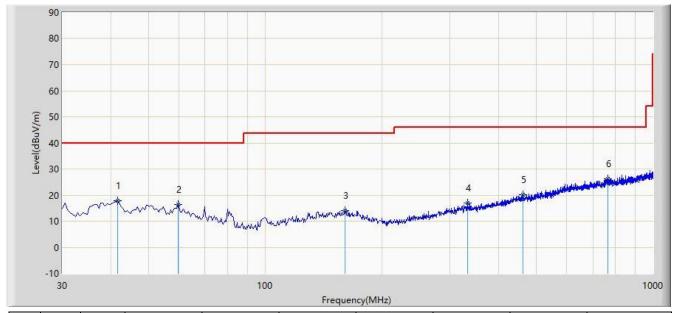
Note 1: Measure Level $(dB\mu V/m)$ = Reading Level $(dB\mu V)$ + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from $9kHz \sim 30MHz$, 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.



Site: AC2	Time: 2020/07/16 - 16:09			
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao			
Probe: AC2_VULB9162_0.03-7GHz	Polarity: Vertical			
EUT: DEX Adaptor	Power: By Battery			
Transmit by BLE at channel 2402MHz				



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			41.640	17.685	3.602	-22.315	40.000	14.083	QP
2			59.585	16.475	2.584	-23.525	40.000	13.891	QP
3			160.950	14.188	-0.338	-29.312	43.500	14.526	QP
4			333.125	17.011	1.233	-28.989	46.000	15.777	QP
5			461.650	20.157	1.076	-25.843	46.000	19.081	QP
6		*	766.230	26.339	1.661	-19.661	46.000	24.678	QP

Note 1: Measure Level $(dB\mu V/m)$ = Reading Level $(dB\mu V)$ + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from $9kHz \sim 30MHz$, 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.



7.7. Radiated Restricted Band Edge Measurement

7.7.1.Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			



For RSS-Gen Section 8.10 Requirement

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 -1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 -2390	
12.51975 - 12.52025	2483.5 -2500	
12.57675 - 12.57725	2655 - 2900	
13.36 -13.41	3260 - 3267	
16.42 - 16.423	3332 -3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		



All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in below table.

FCC Part 15 Subpart C Paragraph 15.209 & RSS-Gen Section 8.9						
Frequency	Field Strength	Measured Distance				
[MHz]	[uV/m]	[Meters]				
0.009 - 0.490	2400/F (kHz)	300				
0.490 - 1.705	24000/F (kHz)	30				
1.705 - 30	30	30				
30 - 88	100	3				
88 - 216	150	3				
216 - 960	200	3				
Above 960	500	3				

7.7.2.Test Procedure Used

ANSI C63.10-2013 Section 6.3 (General Requirements)

ANSI C63.10-2013 Section 6.6 (Standard test method above 1GHz)

ANSI C63.10-2013 Section 11.13 (Standard test method above 1GHz)

7.7.3.Test Setting

Peak Field Strength Measurements

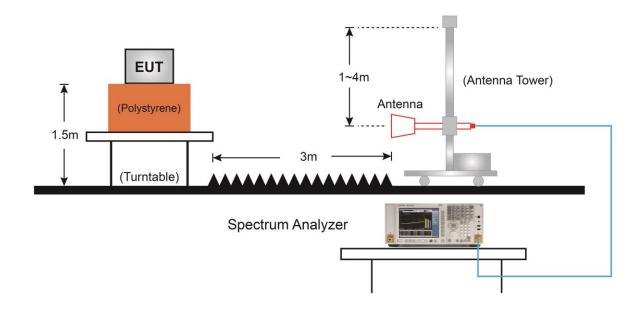
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize



Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. Detector = Peak
- 5. Sweep time = auto
- 6. Trace mode = max hold
- 7. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.7.4.Test Setup





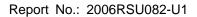
7.7.5.Test Result

Site: AC1	Time: 2020/07/21 - 22:24			
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu			
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: DEX Adaptor	Power: By Battery			
Note: Transmit by BLE at Channel 2402MHz				

120 80 70 60 40 30 20 2310 2315 2320 2325 2330 2335 2340 2345 2350 2355 2360 2365 2370 2375 2380 2385 2390 2395 2400 2405 Frequency(MHz)

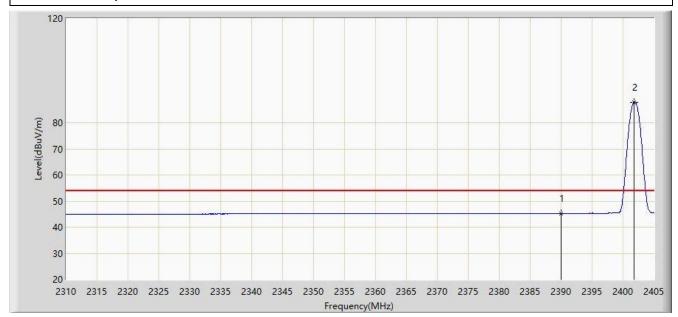
No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2375.312	62.144	29.457	-11.856	74.000	32.687	PK
2			2390.000	60.038	27.326	-13.962	74.000	32.712	PK
3		*	2401.580	89.736	56.992	N/A	N/A	32.745	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)





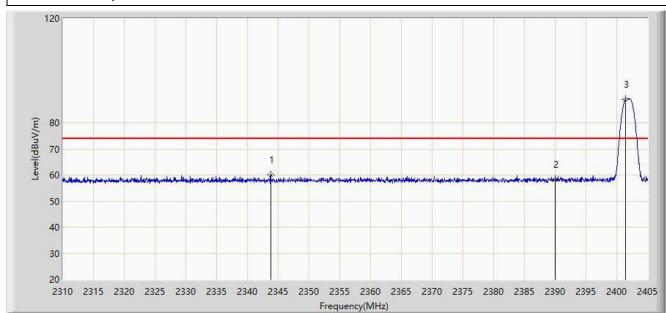
Site: AC1	Time: 2020/07/21 - 22:30			
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu			
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: DEX Adaptor	Power: By Battery			
Note: Transmit by BLE at Channel 2402MHz				



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	45.238	12.526	-8.762	54.000	32.712	AV
2		*	2401.770	87.902	55.158	N/A	N/A	32.744	AV



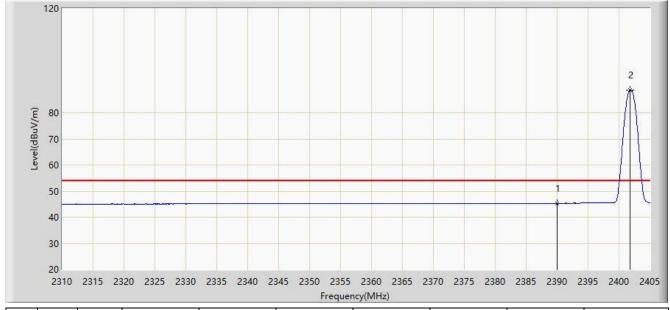
Site: AC1	Time: 2020/07/21 - 22:46			
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu			
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: DEX Adaptor	Power: By Battery			
Note: Transmit by BLE at Channel 2402MHz				



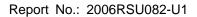
No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2343.772	59.952	27.151	-14.048	74.000	32.801	PK
2			2390.000	58.351	25.639	-15.649	74.000	32.712	PK
3		*	2401.485	89.107	56.362	N/A	N/A	32.745	PK



Site: AC1	Time: 2020/07/21 - 22:48			
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu			
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: DEX Adaptor	Power: By Battery			
Note: Transmit by BLE at Channel 2402MHz				

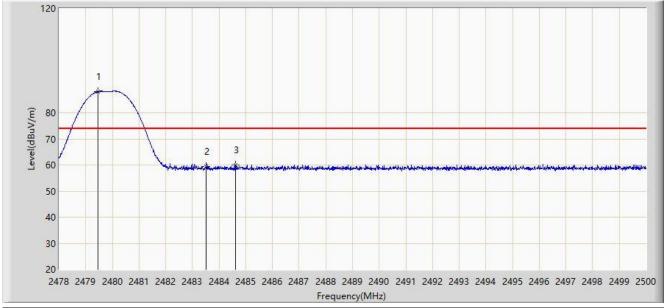


No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	45.314	12.602	-8.686	54.000	32.712	AV
2		*	2401.817	88.838	56.094	N/A	N/A	32.744	AV





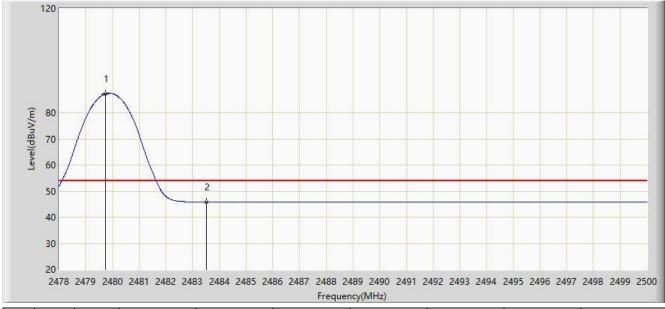
Site: AC1	Time: 2020/07/21 - 22:52				
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu				
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal				
EUT: DEX Adaptor	Power: By Battery				
Note: Transmit by BLE at Channel 2480MHz					



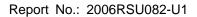
No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.463	88.193	55.508	N/A	N/A	32.685	PK
2			2483.500	59.423	26.773	-14.577	74.000	32.651	PK
3			2484.622	59.978	27.337	-14.022	74.000	32.641	PK



Site: AC1	Time: 2020/07/21 - 22:55				
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu				
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal				
EUT: DEX Adaptor	Power: By Battery				
Note: Transmit by BLE at Channel 2480MHz					

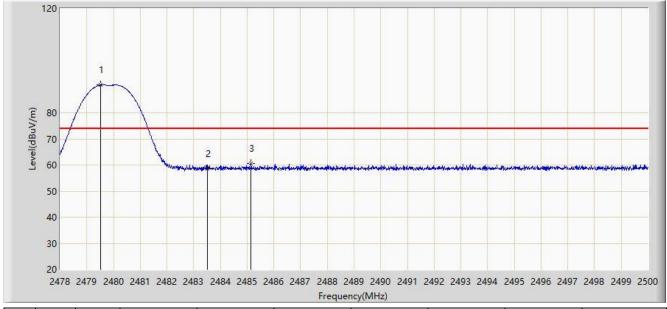


No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.727	87.240	54.557	N/A	N/A	32.683	AV
2			2483.500	45.828	13.178	-8.172	54.000	32.651	AV





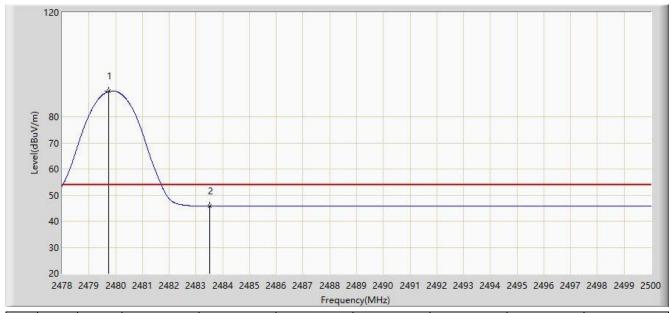
Site: AC1	Time: 2020/07/21 - 22:56				
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu				
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: DEX Adaptor	Power: By Battery				
Note: Transmit by BLE at Channel 2480MHz					



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.518	90.676	57.991	N/A	N/A	32.685	PK
2			2483.500	58.665	26.015	-15.335	74.000	32.651	PK
3			2485.150	60.718	28.082	-13.282	74.000	32.636	PK



Site: AC1	Time: 2020/07/21 - 22:58				
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu				
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: DEX Adaptor	Power: By Battery				
Note: Transmit by BLE at Channel 2480MHz					



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.727	89.724	57.041	N/A	N/A	32.683	AV
2			2483.500	45.762	13.112	-8.238	54.000	32.651	AV



7.8. AC Conducted Emissions Measurement

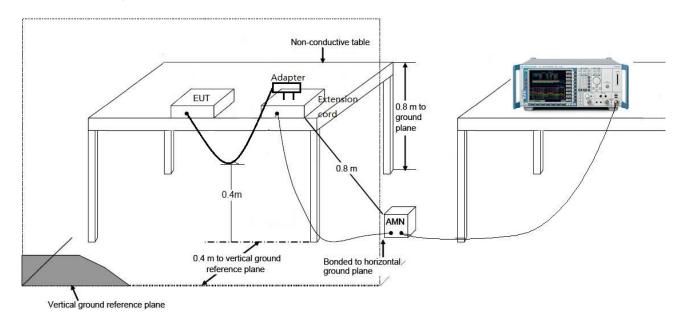
7.8.1.Test Limit

FCC Part 15 Subpart C Paragraph 15.207 / RSS-Gen Issue 5 Section 8.8 Limits								
Frequency	QP	Average						
(MHz)	(dBµV)	(dBµV)						
0.15 - 0.50	66 - 56	56 - 46						
0.50 - 5.0	56	46						
5.0 - 30	60	50						

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

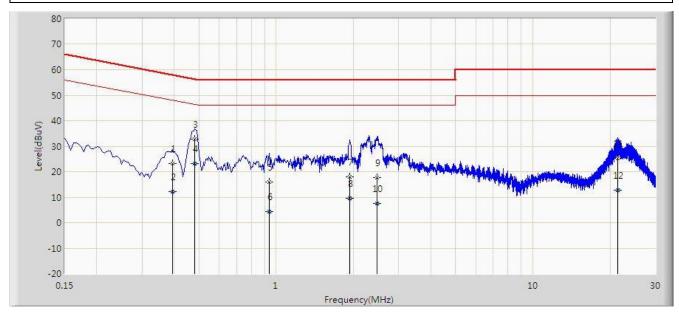
7.8.2.Test Setup





7.8.3.Test Result

Site: SR2	Time: 2020/07/13 - 19:15				
Limit: FCC_Part15.207_CE_AC Power	Engineer: Dandy Li				
Probe: ENV216_101683_Filter On	Polarity: Line				
EUT: DEX Adaptor	Power: AC 120V/60Hz				
Test Mode: Transmit by BLE at Channel 2402MHz					



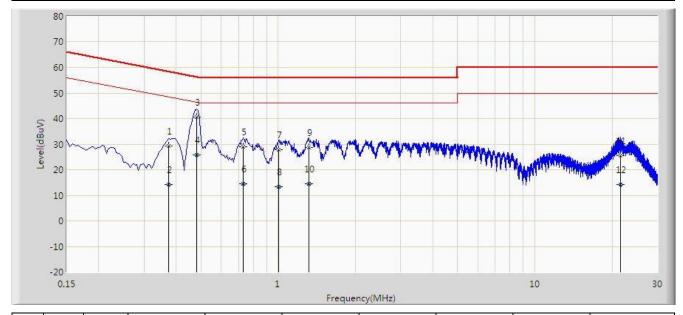
No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1			0.394	23.204	13.490	-34.775	57.979	9.714	QP
2			0.394	12.074	2.360	-35.905	47.979	9.714	AV
3			0.482	32.861	23.129	-23.443	56.305	9.733	QP
4		*	0.482	23.090	13.357	-23.215	46.305	9.733	AV
5			0.942	15.803	5.990	-40.197	56.000	9.813	QP
6			0.942	4.469	-5.343	-41.531	46.000	9.813	AV
7			1.934	17.968	8.139	-38.032	56.000	9.830	QP
8			1.934	9.587	-0.243	-36.413	46.000	9.830	AV
9			2.466	17.563	7.714	-38.437	56.000	9.849	QP
10			2.466	7.629	-2.219	-38.371	46.000	9.849	AV
11			21.418	25.110	14.754	-34.890	60.000	10.356	QP
12			21.418	12.752	2.396	-37.248	50.000	10.356	AV

Note: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)



Site: SR2	Time: 2020/07/13 - 19:19			
Limit: FCC_Part15.207_CE_AC Power	Engineer: Dandy Li			
Probe: ENV216_101683_Filter On	Polarity: Neutral			
EUT: DEX Adaptor	Power: AC 120V/60Hz			
Test Mode: Transmit by BLE at Channel 2402MHz				



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1			0.374	29.312	19.677	-29.100	58.412	9.635	QP
2			0.374	14.136	4.501	-34.276	48.412	9.635	AV
3		*	0.482	40.670	31.017	-15.635	56.305	9.653	QP
4			0.482	25.932	16.279	-20.372	46.305	9.653	AV
5			0.730	29.020	19.353	-26.980	56.000	9.667	QP
6			0.730	14.612	4.945	-31.388	46.000	9.667	AV
7			1.002	27.793	18.103	-28.207	56.000	9.690	QP
8			1.002	13.271	3.581	-32.729	46.000	9.690	AV
9			1.314	28.782	19.042	-27.218	56.000	9.740	QP
10			1.314	14.482	4.742	-31.518	46.000	9.740	AV
11			21.498	25.495	15.151	-34.505	60.000	10.344	QP
12			21.498	14.125	3.781	-35.875	50.000	10.344	AV

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)



8. CONCLUSION

The data collected relate only the item(s) tested and show that unit is compliance with Part 15C of the FCC Rules and ISED Rules.

———— The End —————



Appendix A - Test Setup Photograph

Refer to "2006RSU082-UT" file.



Appendix B - EUT Photograph

Refer to "2006RSU082-UE" file.