

MRT Technology (Suzhou) Co., Ltd Phone: +86-512-66308358 Web: www.mrt-cert.com Report No.: 1904RSU029-U3 Report Version: V01 Issue Date: 05-12-2019

MEASUREMENT REPORT

FCC PART 15.247 / RSS-247 Bluetooth-LE

FCC ID: HD5-EDA710

IC: 1693B-EDA710

APPLICANT: Honeywell International Inc

Honeywell Safety and Productivity Solutions

Application Type: Certification

Product: Tablet

Model No.: EDA71-0

Brand Name: Honeywell

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part15 Subpart C (Section 15.247)

IC Rule(s): RSS-247 Issue 2, RSS-GEN Issue 5

Test Procedure(s): ANSI C63.10-2013, KDB 558074 D01v05r02

Test Date: April 21 ~ May 11, 2019

Reviewed By: Jane yuan

(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.

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Revision History

Report No. Version		Description	Issue Date	Note
1904RSU029-U3	Rev. 01	Initial Report	05-12-2019	Valid

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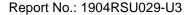
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8.





§2.1033 General Information

Applicant:	Honeywell International Inc	
	Honeywell Safety and Productivity Solutions	
Applicant Address:	9680 Old Bailes Road, Fort Mill, SC 29707 United States	
Manufacturer:	Honeywell International Inc	
	Honeywell Safety and Productivity Solutions	
Manufacturer Address: 9680 Old Bailes Road, 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 Device Serial No.:	S/N: 19077B2BDD (Conducted Sample)	
lest Device Serial No	S/N: 19077B32EF (Radiated Sample)	

Test Facility / Accreditations

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

- MRT facility is a FCC registered (MRT Reg. No. 893164) 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.



FCC ID: HD5-EDA710 IC: 1693B-EDA710



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 Industry Canada 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.





PRODUCT INFORMATION 2.

2.1. Feature of Equipment under Test

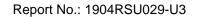
Product Name:	Tablet		
Model No.:	EDA71-0		
Brand Name:	Honeywell		
Wi-Fi Specification:	802.11a/b/g/n/ac		
Bluetooth Version:	V4.2 dual mode		
NFC Specification:	13.56MHz		
Accessories			
Adapter: Model No.: ADS-12B-06 05010E			
	Input Power: 100 - 240V ~ 50/60Hz, Max. 0.3A		
	Output Power: 5VDC 2.0A		
USB Charging Cup:	M/N: EDA70-UC		
Battery 1#:	Model No.: BAT-EDA50US		
	Capacitance: 15.2Wh, 4000mAh		
	Rated Voltage: 3.8V		
Battery 2#:	Model No.: EDA70-EXT		
	Capacitance: 33.45Wh, 8850mAh		
	Rated Voltage: 3.78V		

2.2. Product Specification Subjective to this Report

Bluetooth Frequency:	2402~2480MHz
Channel Number:	40
Type of modulation:	GFSK
Data Rate:	1Mbps
Antenna Type:	FPC Antenna
Antenna Gain:	1.24dBi

Note: For other features of this EUT, test report will be issued separately.

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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. Test Mode

Test Mode	Mode 1: Transmit by BLE
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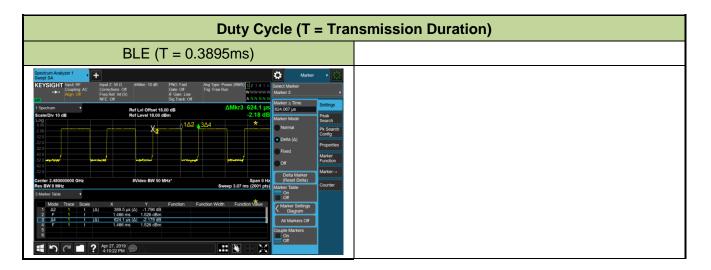
2.5. Device Capabilities

This device contains the following capabilities:

2.4GHz WLAN (DTS), 5GHz WLAN (UNII), Bluetooth v4.2 (DSS, DTS) and NFC.

Note: The maximum achievable duty cycles 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:

Test Mode	Duty Cycle		
BLE	62.41%		



2.6. Test Configuration

The **Tablet** was tested per the guidance of ANSI C63.10-2013, which is used as the reference of appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.7. EMI Suppression Device(s)/Modifications

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

2.8. Description of Test Software

The test utility software used during testing was "QRCT", and the version was 3.0.268.0.

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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.

RSP-100 Issue 11 Section 3

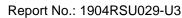
The manufacturer, importer or distributor shall meet the labeling requirements set out in this section for every unit:

- (i) prior to marketing in Canada, for products manufactured in Canada
- (ii) prior to importation into Canada, for imported products

For information regarding the e-labeling option, see Notice 2014-DRS1003. 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.

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3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013), and were used in the measurement.

Deviation from measurement procedure......None

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, $50\Omega/50$ uH 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.

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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.

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4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

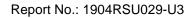
"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antenna of the **Tablet** is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The **Tablet** unit complies with the requirement of §15.203.

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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	2020/04/15
Two-Line V-Network	R&S	ENV 216	MRTSUE06002	1 year	2019/06/14
Two-Line V-Network	R&S	ENV 216	MRTSUE06003	1 year	2019/06/14
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2019/08/14
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	2019/08/13
EXA Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2020/04/15
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2019/11/09
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2020/03/31
Broad Band Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2019/10/19
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2019/12/17
Microwave System Amplifier	Agilent	83017A	MRTSUE06076	1 year	2019/11/16
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2019/06/12
Thermohygrometer	Testo	608-H1	MRTSUE06403	1 year	2019/08/14
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06212	1 year	2020/04/30

Radiated Emission - AC2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
MXE EMI Receiver	Agilent	N9038A	MRTSUE06125	1 year	2019/08/13
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2019/11/09
Bilog Period Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2019/10/19
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2019/11/09
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2019/12/17
Broadband Coaxial Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2019/11/16
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2019/06/12
Digitial Thermometer & Hygrometer	Minggao	ETH529	MRTSUE06170	1 year	2019/12/13
Anechoic Chamber	RIKEN	Chamber-AC2	MRTSUE06213	1 year	2020/04/30

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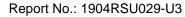


Conducted Test Equipment - TR3

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Keysight	N9010A	MRTSUE06195	1 year	2020/04/15
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06452	1 year	2019/07/19
EXA Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2020/04/15
Signal Analyzer	R&S	FSV40	MRTSUE06218	1 year	2020/04/15
Power Meter	Agilent	U2021XA	MRTSUE06030	1 year	2019/11/16
USB wideband power sensor	Keysight	U2021XA	MRTSUE06446	1 year	2019/07/19
USB wideband power sensor	Keysight	U2021XA	MRTSUE06447	1 year	2019/07/05
Bluetooth Test Set	Anritsu	MT8852B-042	MRTSUE06389	1 year	2019/06/14
Audio Analyzer	Agilent	U8903B	MRTSUE06143	1 year	2019/08/14
Modulation Analyzer	Hewlett Packard	HP8901A	MRTSUE06098	1 year	2019/10/18
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	1 year	2019/11/16
DC Power Supply	GWINSTEK	DPS-3303C	MRTSUE06064	N/A	N/A
Temperature & Humidity Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2019/11/16
Thermohygrometer	Testo	608-H1	MRTSUE06401	1 year	2019/08/14

Software	Version	Function
EMI Software	V3	EMI Test Software

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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 - SR2

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

9kHz~150kHz: 3.84dB 150kHz~30MHz: 3.46dB

Radiated Emission Measurement - AC1

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

Horizontal: 30MHz~300MHz: 4.07dB

300MHz~1GHz: 3.63dB 1GHz~18GHz: 4.16dB

Vertical: 30MHz~300MHz: 4.18dB

300MHz~1GHz: 3.60dB 1GHz~18GHz: 4.76dB

Radiated Emission Measurement - AC2

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

Horizontal: 30MHz~300MHz: 3.75dB

300MHz~1GHz: 3.53dB 1GHz~18GHz: 4.28dB

Vertical: 30MHz~300MHz: 3.86dB

300MHz~1GHz: 3.53dB 1GHz~18GHz: 4.33dB

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7. TEST RESULT

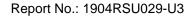
7.1. Summary

FCC Part Section(s)	IC Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [5.2]	6dB Bandwidth	≥ 500kHz		Pass	Section 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	Pass	Section 7.4
15.247(d)	RSS-247 [5.5]	Band Edge / Out-of-Band Emissions	≥ 20dBc(Peak)		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 Section 7.7
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits >	Line Conducted	Pass	Section 7.8

Notes:

- 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.
- 2) 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.

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7.2. 6dB 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

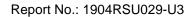
7.2.3.Test Setting

- 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 \geq 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

Spectrum Analyzer attenuator EUT

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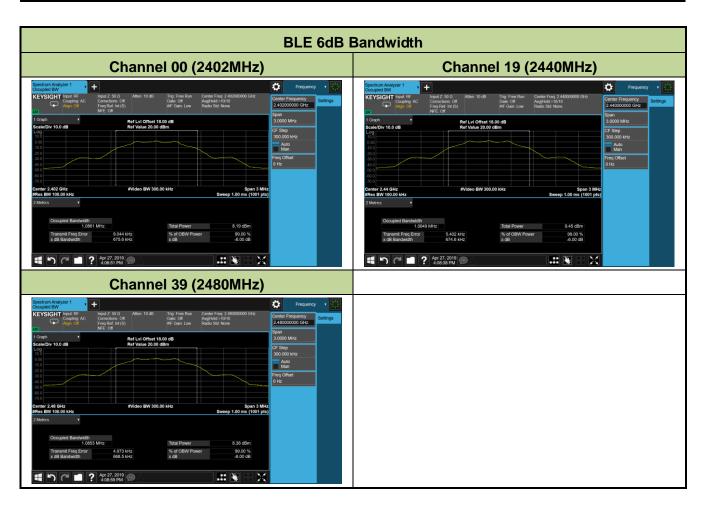




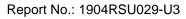
7.2.5.Test Result

Product	Tablet	Temperature	25℃
Test Engineer	Flag Yang	Relative Humidity	52%
Test Site	TR3	Test Date	2019/04/27

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	99% Bandwidth (MHz)	Result
BLE	1	00	2402	0.676	≥ 0.5	1.087	Pass
BLE	1	19	2440	0.675	≥ 0.5	1.085	Pass
BLE	1	39	2480	0.669	≥ 0.5	1.085	Pass



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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 (36dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.3.2.Test Procedure Used

ANSI C63.10 - Section 11.9.1.3

ANSI C63.10 - Section 11.9.2.3.2

7.3.3.Test Setting

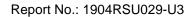
Method PKPM1 (Peak Power Measurement)

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)

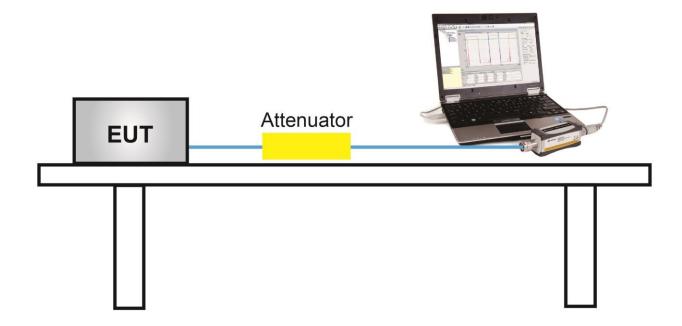
Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since this measurement is made only during the ON time of the transmitter, no duty cycle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

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7.3.4.Test Setup







7.3.5.Test Result of Output Power

Product	Tablet	Temperature	25℃
Test Engineer	Snake Ni	Relative Humidity	52%
Test Site	TR3	Test Date	2019/04/27

Test Result of Peak Output Power

Test Mode	Data Rate	Channel	Frequency	Peak Power	Limit	E.I.R.P	E.I.R.P	Result
	(Mbps)	No.	(MHz)	(dBm)	(dBm)	(dBm)	Limit (dBm)	
BLE	1	00	2402	3.02	≤ 30.00	4.26	≤ 36.00	Pass
BLE	1	19	2440	3.82	≤ 30.00	5.06	≤ 36.00	Pass
BLE	1	39	2480	3.14	≤ 30.00	4.38	≤ 36.00	Pass

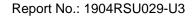
Note: EIRP (dBm) = Peak Power (dBm) + Antenna Gain (dBi), Antenna Gain = 1.24 dBi.

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel	Frequency	Average	Limit	E.I.R.P	E.I.R.P	Result
	(Mbps)	No.	(MHz)	Power (dBm)	(dBm)	(dBm)	Limit (dBm)	
BLE	1	00	2402	1.68	≤ 30.00	2.92	≤ 36.00	Pass
BLE	1	19	2440	2.82	≤ 30.00	4.06	≤ 36.00	Pass
BLE	1	39	2480	1.82	≤ 30.00	3.06	≤ 36.00	Pass

Note: EIRP (dBm) = Average Power (dBm) + Antenna Gain (dBi), Antenna Gain = 1.24 dBi.

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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 - Section 11.10.2

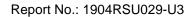
7.4.3.Test Setting

- 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 attenuator EUT

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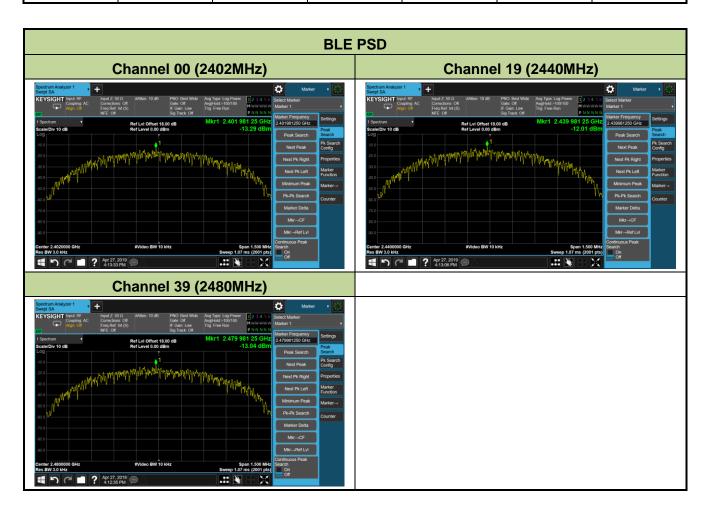




7.4.5.Test Result

Product	Tablet	Temperature	25℃
Test Engineer	Snake Ni	Relative Humidity	52%
Test Site	TR3	Test Date	2019/04/27

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1	00	2402	-13.29	≤ 8.00	Pass
BLE	1	19	2440	-12.01	≤ 8.00	Pass
BLE	1	39	2480	-13.04	≤ 8.00	Pass



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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 - Section 11.11

7.5.3.Test Setting

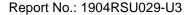
Reference level measurement

- 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 ≥ 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

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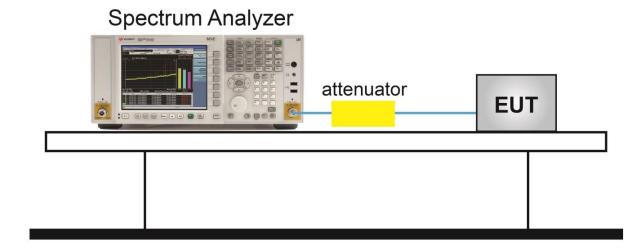




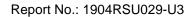
Test Notes

- RBW was set to 1.3MHz rather than 100 kHz in order to increase the measurement speed;
 meanwhile, the VBW was set to 4MHz instead of 300 kHz.
- 2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100 kHz bandwidth. However, since the traces in the following plots are measured with a 1.3 MHz RBW, the display line may not necessarily appear to be 20 dB below the level of the fundamental measured in a 1.3 MHz bandwidth.
- 3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.

7.5.4.Test Setup



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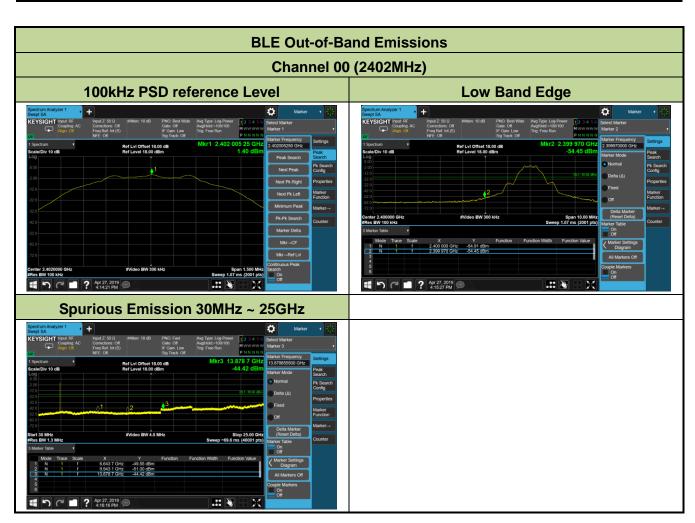




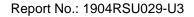
7.5.5.Test Result

Product	Tablet	Temperature	25℃
Test Engineer	Flag Yang	Relative Humidity	52%
Test Site	TR3	Test Date	2019/04/27

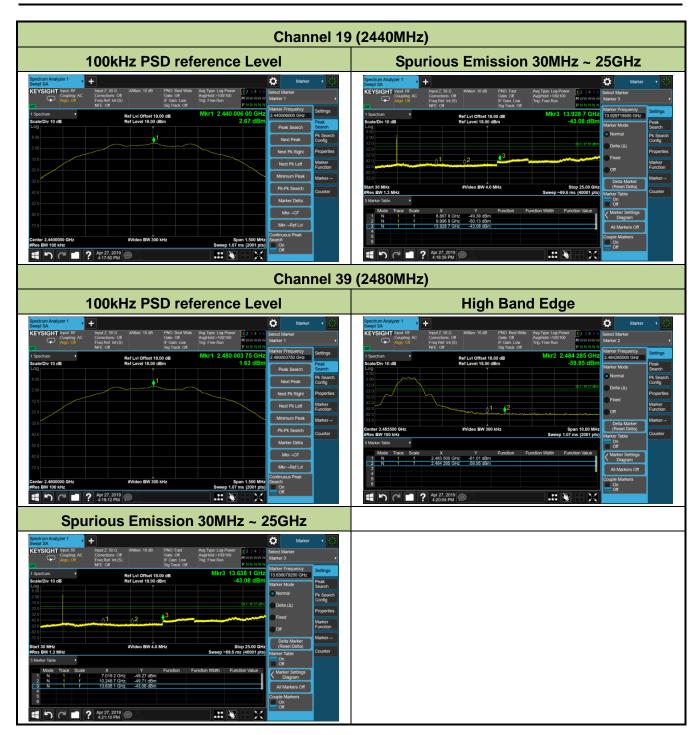
Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Limit	Result
BLE	1	00	2402	20dBc	Pass
BLE	1	19	2440	20dBc	Pass
BLE	1	39	2480	20dBc	Pass



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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 Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209								
Frequency (MHz)	Field Strength (µV/m)	Measured Distance (m)						
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 - Section 6.3 (General Requirements)

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

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

ANSI C63.10 - 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			

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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

<u>Average Measurements above 1GHz (Method VB)</u>

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

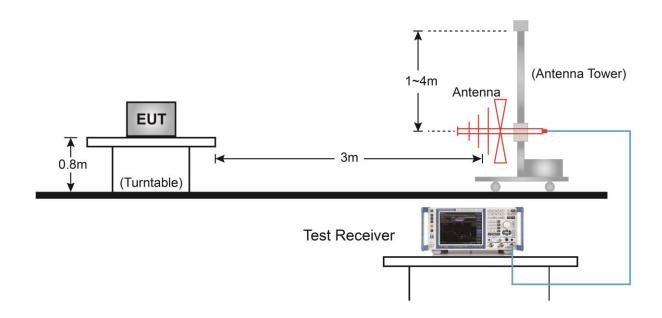
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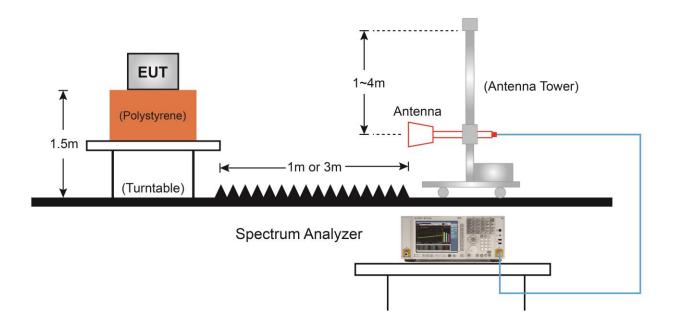


7.6.4.Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:





7.6.5.Test Result

Product	Tablet	Temperature	25℃				
Test Engineer	Snake Ni	Relative Humidity	54%				
Test Site	AC2	Test Date	2019/05/11				
Test Mode	BLE	Test Channel:	00				
Remark	1. Average measurement was no	t performed if peak I	evel lower than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

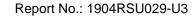
Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4323.5	37.1	1.7	38.8	74.0	-35.2	Peak	Horizontal
	4804.0	34.5	3.5	38.0	74.0	-36.0	Peak	Horizontal
*	6559.0	34.1	8.3	42.4	74.6	-32.2	Peak	Horizontal
*	7206.0	31.7	11.7	43.4	74.6	-31.2	Peak	Horizontal
	4162.0	36.4	1.1	37.5	74.0	-36.5	Peak	Vertical
	4804.0	34.6	3.5	38.1	74.0	-35.9	Peak	Vertical
*	6389.0	35.8	7.4	43.2	74.6	-31.4	Peak	Vertical
*	7206.0	32.7	11.7	44.4	74.6	-30.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (94.6dBµV/m) or 15.209 which is higher.

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

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

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Product	Tablet	Temperature	25℃				
Test Engineer	Snake Ni	Relative Humidity	54%				
Test Site	AC2	Test Date	2019/05/11				
Test Mode	BLE	Test Channel:	19				
Remark	1. Average measurement was no	t performed if peak I	evel lower than average				
	limit.						
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.						

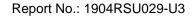
Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4880.0	33.8	3.6	37.4	74.0	-36.6	Peak	Horizontal
	7320.0	31.6	11.9	43.5	74.0	-30.5	Peak	Horizontal
*	7808.5	32.8	11.5	44.3	76.9	-32.6	Peak	Horizontal
*	8599.0	33.6	12.1	45.7	76.9	-31.2	Peak	Horizontal
	4880.0	34.3	3.6	37.9	74.0	-36.1	Peak	Vertical
	7320.0	31.3	11.9	43.2	74.0	-30.8	Peak	Vertical
*	7893.5	32.6	11.6	44.2	76.9	-32.7	Peak	Vertical
*	8658.5	32.5	12.3	44.8	76.9	-32.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (96.9dBµV/m) or 15.209 which is higher.

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

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

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Product	Tablet	Temperature	25℃				
Test Engineer	Snake Ni	Relative Humidity	54%				
Test Site	AC2	Test Date	2019/05/11				
Test Mode	BLE	Test Channel:	39				
Remark	1. Average measurement was no	t performed if peak	evel 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)				
	4960.0	34.6	3.5	38.1	74.0	-35.9	Peak	Horizontal
	7440.0	32.1	11.8	43.9	74.0	-30.1	Peak	Horizontal
*	7885.0	32.3	11.5	43.8	76.5	-32.7	Peak	Horizontal
*	8641.5	33.2	12.2	45.4	76.5	-31.1	Peak	Horizontal
	4960.0	33.5	3.5	37.0	74.0	-37.0	Peak	Vertical
	7440.0	32.2	11.8	44.0	74.0	-30.0	Peak	Vertical
*	7893.5	33.1	11.6	44.7	76.5	-31.8	Peak	Vertical
*	8718.0	32.4	12.8	45.2	76.5	-31.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (96.5dBµV/m) or 15.209 which is higher.

Note 2: Measure Level $(dB\mu V/m) = Reading Level (dB\mu V) + Factor (dB)$

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

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The Worst Case of Radiated Emission below 1GHz:

Site: AC2	Time: 2019/04/21 - 20:43				
Limit: FCC_Part15.209_RE(3m)	Engineer: Messiah Li				
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal				
EUT: Tablet	Power: By Battery				
Worst Case Mode: Transmit by Bluetooth LE at Channel 2440MHz					

No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	38.730	19.539	5.992	-20.461	40.000	13.547	QP
2			45.520	18.291	3.463	-21.709	40.000	14.828	QP
3			55.705	16.885	2.411	-23.115	40.000	14.474	QP
4			105.175	16.079	3.111	-27.421	43.500	12.968	QP
5			187.140	14.974	3.602	-28.526	43.500	11.372	QP
6			603.755	23.830	4.107	-22.170	46.000	19.723	QP

Frequency(MHz)

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

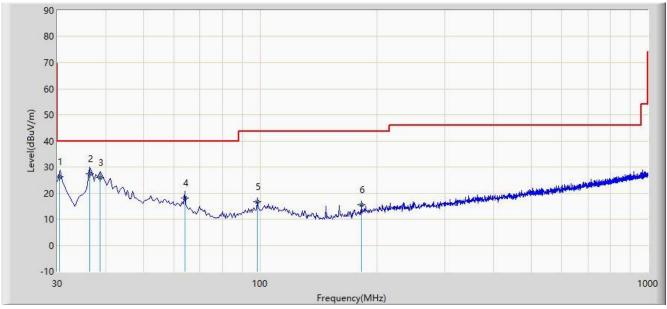
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: $9kHz \sim 30MHz$, $18GHz \sim 25GHz$), therefore no data appear in the report.

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Site: AC2	Time: 2019/04/21 - 20:44			
Limit: FCC_Part15.209_RE(3m)	Engineer: Messiah Li			
Probe: VULB9162_0.03-8GHz	Polarity: Vertical			
EUT: Tablet	Power: By Battery			
Worst Case Mode: Transmit by Bluetooth LE at Channel 2440MHz				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			30.450	26.306	14.260	-13.694	40.000	12.046	QP
2		*	36.310	27.377	14.260	-12.623	40.000	13.117	QP
3			38.740	25.999	12.450	-14.001	40.000	13.549	QP
4			63.980	18.016	5.240	-21.984	40.000	12.777	QP
5			98.385	16.587	3.941	-26.913	43.500	12.646	QP
6			182.290	15.600	4.668	-27.900	43.500	10.932	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 test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

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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		- 1	

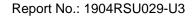
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All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209						
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				

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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	Frequency	Frequency
(MHz)	(MHz)	(GHz)
0.009 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.525225	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	2655 - 2900	
12.57675 - 12.57725	3260 - 3267	
13.36 -13.41	3332 -3339	
16.42 - 16.423	334.5 - 3358	
16.69475 - 16.69525	3500 - 4400	
16.80425 - 16.80475	4500 - 5150	
25.5 - 25.67	5350 - 5460	
37.5 - 38.25	7250 - 7750	
73 - 74.6	8025 - 8500	
74.8 - 75.2		
108 - 138		



All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen must not exceed the limits shown in Table per Section 8.9.

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 - Section 6.3 (General Requirements)

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

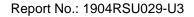
7.7.3.Test Setting

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

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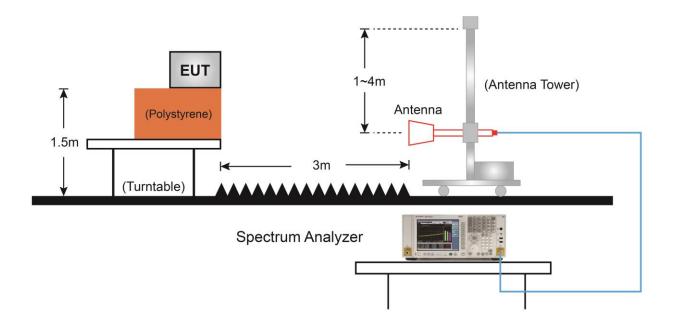




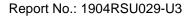
Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
- 5. Detector = Peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.7.4.Test Setup



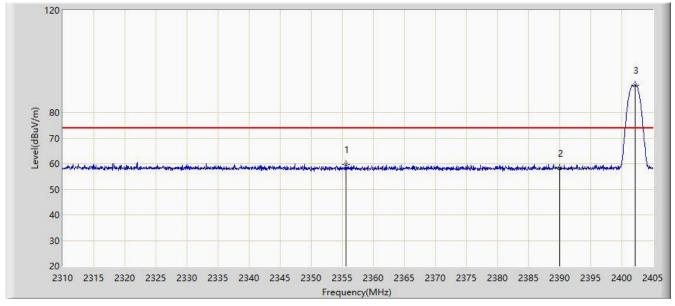
FCC ID: HD5-EDA710 IC: 1693B-EDA710





7.7.5.Test Result

Site: AC2	Time: 2019/05/11 - 17:23				
Limit: FCC_Part15.209_RE(3m)	Engineer: Snake Ni				
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal				
EUT: Tablet	Power: By Battery				
Test Mode: Transmit by BLE at Channel 2402MHz					

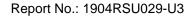


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2355.647	59.768	28.282	-14.232	74.000	31.486	PK
2			2390.000	58.136	26.687	-15.864	74.000	31.449	PK
3		*	2402.198	90.653	59.232	N/A	N/A	31.421	PK

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

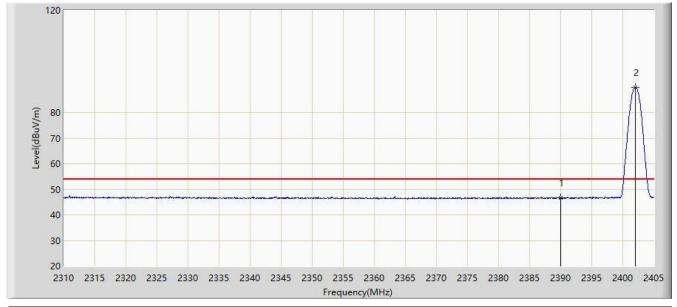
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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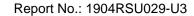




Site: AC2	Time: 2019/05/11 - 17:31			
Limit: FCC_Part15.209_RE(3m)	Engineer: Snake Ni			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: Tablet	Power: By Battery			
Test Mode: Transmit by BLE at Channel 2402MHz				

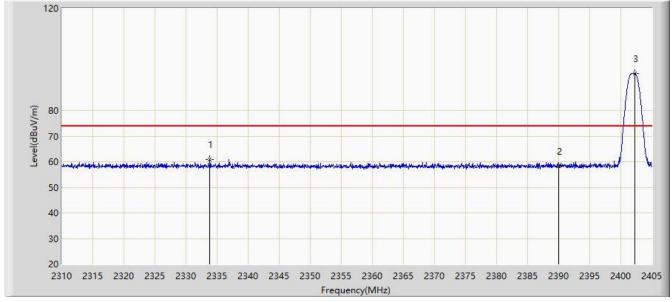


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	46.808	15.359	-7.192	54.000	31.449	AV
2		*	2402.008	89.945	58.523	N/A	N/A	31.422	AV

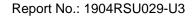




Site: AC2	Time: 2019/05/11 - 17:32			
Limit: FCC_Part15.209_RE(3m)	Engineer: Snake Ni			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: Tablet	Power: By Battery			
Test Mode: Transmit by BLE at Channel 2402MHz				

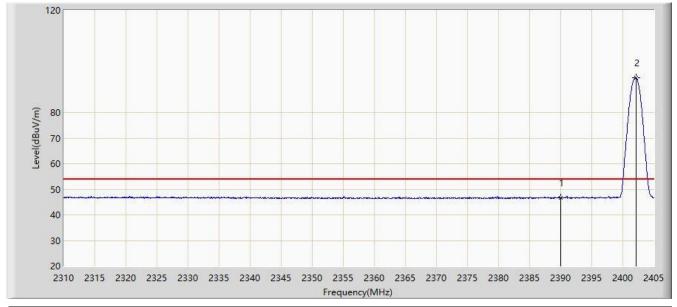


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2333.845	60.744	29.162	-13.256	74.000	31.581	PK
2			2390.000	58.204	26.755	-15.796	74.000	31.449	PK
3		*	2402.292	94.563	63.142	N/A	N/A	31.421	PK

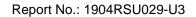




Site: AC2	Time: 2019/05/11 - 17:34			
Limit: FCC_Part15.209_RE(3m)	Engineer: Snake Ni			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: Tablet	Power: By Battery			
Test Mode: Transmit by BLE at Channel 2402MHz				

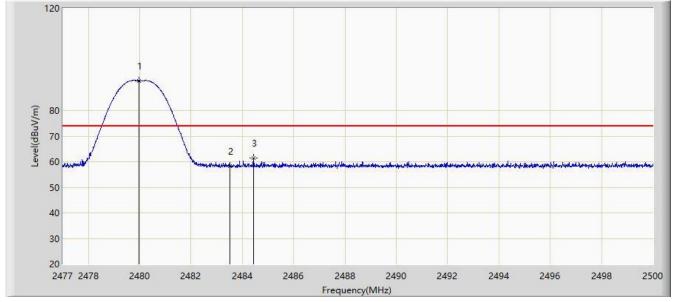


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	46.566	15.117	-7.434	54.000	31.449	AV
2		*	2402.150	93.506	62.085	N/A	N/A	31.421	AV

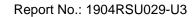




Site: AC2	Time: 2019/05/11 - 17:35				
Limit: FCC_Part15.209_RE(3m)	Engineer: Snake Ni				
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal				
EUT: Tablet	Power: By Battery				
Test Mode: Transmit by BLE at Channel 2480MHz					

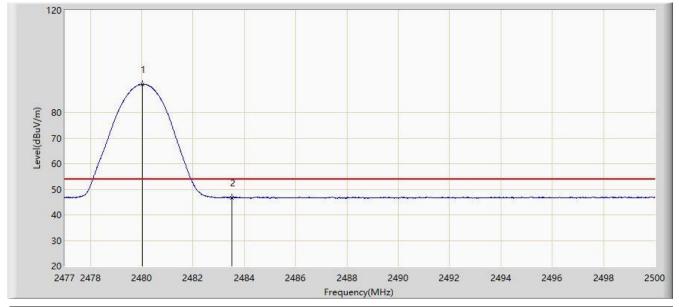


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.956	91.739	60.348	N/A	N/A	31.391	PK
2			2483.500	58.365	26.962	-15.635	74.000	31.403	PK
3			2484.440	61.319	29.913	-12.681	74.000	31.406	PK

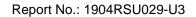




Site: AC2	Time: 2019/05/11 - 17:37				
Limit: FCC_Part15.209_RE(3m)	Engineer: Snake Ni				
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal				
EUT: Tablet	Power: By Battery				
Test Mode: Transmit by BLE at Channel 2480MHz					

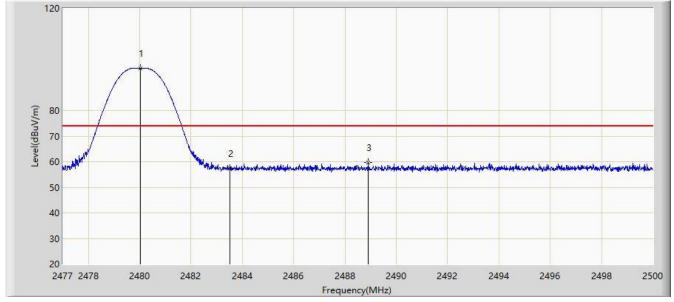


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.024	91.091	59.700	N/A	N/A	31.391	AV
2			2483.500	46.768	15.365	-7.232	54.000	31.403	AV

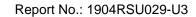




Site: AC2	Time: 2019/05/11 - 17:37				
Limit: FCC_Part15.209_RE(3m)	Engineer: Snake Ni				
Probe: BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: Tablet	Power: By Battery				
Test Mode: Transmit by BLE at Channel 2480MHz					

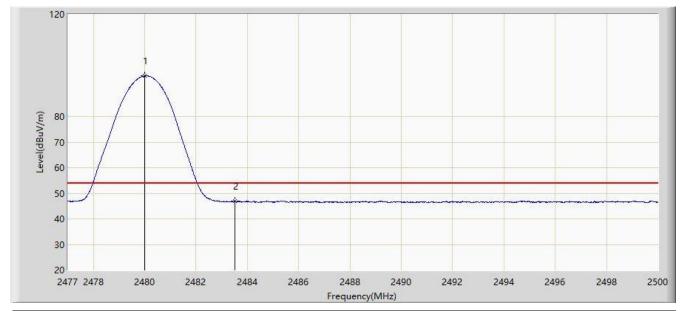


No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.024	96.458	65.067	N/A	N/A	31.391	PK
2			2483.500	57.400	25.997	-16.600	74.000	31.403	PK
3			2488.914	59.787	28.366	-14.213	74.000	31.421	PK

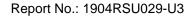




Site: AC2	Time: 2019/05/11 - 17:39				
Limit: FCC_Part15.209_RE(3m)	Engineer: Snake Ni				
Probe: BBHA9120D_1-18GHz	Polarity: Vertical				
EUT: Tablet	Power: By Battery				
Test Mode: Transmit by BLE at Channel 2480MHz					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.990	95.855	64.464	N/A	N/A	31.391	AV
2			2483.500	46.817	15.414	-7.183	54.000	31.403	AV





7.8. AC Conducted Emissions Measurement

7.8.1.Test Limit

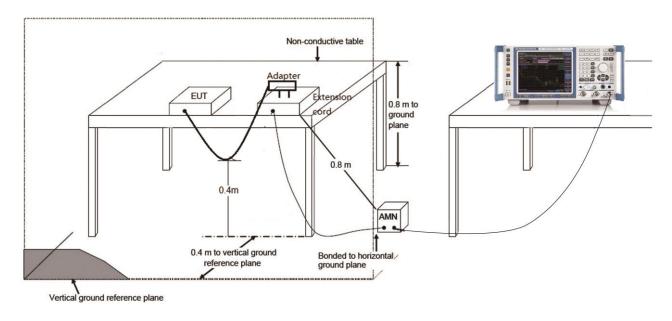
FCC Part 15 Subpart C Paragraph 15.207 Limits						
Frequency (MHz)	QP (dBµV)	Average (dBµV)				
0.15 - 0.50	66 - 56	56 - 46				
0.50 - 5.0	56	46				
5.0 - 30	60	50				

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

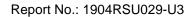
0.5MHz.

7.8.2.Test Setup



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7.8.3.Test Result

-10 -20 0.15

Site: SR2	Time: 2019/05/07 - 10:13				
Limit: FCC_Part15.207_CE_AC Power	Engineer: Liz Yuan				
Probe: ENV216_101683_Filter On	Polarity: Line				
EUT: Tablet	Power: AC 120V/60Hz				
Test Mode: Transmit by BLE at Channel 2402MHz					

80 70 60 50 10 40 10 10

No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1			0.154	44.259	33.519	-21.522	65.781	10.740	QP
2			0.154	14.459	3.719	-41.322	55.781	10.740	AV
3			0.178	42.758	32.700	-21.821	64.578	10.058	QP
4			0.178	10.982	0.924	-43.597	54.578	10.058	AV
5			0.214	38.745	28.788	-24.303	63.049	9.957	QP
6			0.214	12.927	2.971	-40.121	53.049	9.957	AV
7			0.322	31.917	21.896	-27.738	59.655	10.022	QP
8			0.322	14.735	4.714	-34.920	49.655	10.022	AV
9		*	0.502	37.426	27.269	-18.574	56.000	10.157	QP
10			0.502	26.672	16.515	-19.328	46.000	10.157	AV
11			1.868	29.925	20.050	-26.075	56.000	9.875	QP
12			1.868	18.245	8.370	-27.755	46.000	9.875	AV

Frequency(MHz)

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

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



Site: SR2	Time: 2019/05/07 - 10:13				
Limit: FCC_Part15.207_CE_AC Power	Engineer: Liz Yuan				
Probe: ENV216_101683_Filter On	Polarity: Neutral				
EUT: Tablet	Power: AC 120V/60Hz				
Test Mode: Transmit by BLE at Channel 2402MHz					

No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1			0.154	43.278	32.562	-22.504	65.781	10.716	QP
2			0.154	14.800	4.084	-40.982	55.781	10.716	AV
3			0.182	41.026	30.984	-23.368	64.394	10.042	QP
4			0.182	11.873	1.831	-42.521	54.394	10.042	AV
5			0.230	41.044	31.058	-21.406	62.450	9.985	QP
6			0.230	13.955	3.969	-38.495	52.450	9.985	AV
7		*	0.498	40.066	29.888	-15.968	56.033	10.178	QP
8			0.498	29.366	19.188	-16.667	46.033	10.178	AV
9			1.030	32.579	22.671	-23.421	56.000	9.908	QP
10			1.030	20.756	10.848	-25.244	46.000	9.908	AV
11			1.226	32.489	22.588	-23.511	56.000	9.901	QP
12			1.226	20.729	10.828	-25.271	46.000	9.901	AV

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

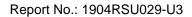
Factor (dB) = Cable Loss (dB) + LISN Factor (dB)



8. CONCLUSION

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

— The End



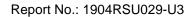


Appendix A - Test Setup Photograph

Refer to "1904RSU029-UT" file.

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Appendix B - EUT Photograph

Refer to "1904RSU029-UE" file.

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