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Report No.: 1504RSU01801
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MEASUREMENT REPORT

FCC PART 15.249

FCC ID: 2ABES-ULTRA8

APPLICANT: Pathway Innovations and Technologies, Inc.

Application Type: Certification

Product: Remote Control

Model No.: Ultra8, Ultra13, Ultra18, Ultra25, U800, U1300, U1800, U2500

FCC Classification: Low Power Communication Device Transmitter (DXX)

FCC Rule Part(s): Part 15.249

Test Procedure(s): ANSI C63.10-2009

Test Date: Apr. 25 ~ May 21, 2015

Reviewed By : Robin Wu
(Robin Wu)

Approved By : Marlin Chen
(Marlin Chen)

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 C63.10-2009. Test results reported herein relate only to the item(s) tested.

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Revision History

Report No.	Version	Description	Issue Date
1504RSU01801	Rev. 01	Initial report	05-21-2015
1504RSU01801	Rev. 02	Revised the description of test Software	05-25-2015

CONTENTS

Description	Page
1. INTRODUCTION	5
1.1. Scope	5
1.2. MRT Test Location	5
2. PRODUCT INFORMATION	6
2.1. Equipment Description.....	6
2.2. Mode of Operation	6
2.3. Test Configuration	6
2.4. EMI Suppression Device(s)/Modifications.....	6
2.5. Labeling Requirements.....	6
2.6. Test Software	7
3. DESCRIPTION OF TEST	8
3.1. Evaluation Procedure	8
3.2. AC Line Conducted Emissions	8
3.3. Radiated Emissions.....	9
4. ANTENNA REQUIREMENTS.....	10
5. TEST EQUIPMENT CALIBRATION DATE	11
6. MEASUREMENT UNCERTAINTY.....	12
7. TEST RESULT	13
7.1. Summary	13
7.2. Conducted Emission.....	14
7.2.1. Test Limit	14
7.2.2. Test Setup.....	14
7.2.3. Test Result.....	14
7.3. Radiated Emission.....	15
7.3.1. Test Limit	15
7.3.2. Test Setup.....	16
7.3.3. Test Result.....	18
7.4. Radiated Outside of The Specified Frequency Bands Measurement.....	21
7.4.1. Test Result.....	21
8. CONCLUSION.....	29

§2.1033 General Information

Applicant:	Pathway Innovations and Technologies, Inc.
Applicant Address:	10211 Pacific Mesa Blvd, #412, San Diego, CA 92121, USA
Manufacturer:	Shenzhen Kerun Visual Technology Co., Ltd
Manufacturer Address:	6/F, Building 2, Zone S2, 1213 Liuxian Blvd, Honghualing Industrial Park, Nanshan District, Shenzhen, Guangdong, China
Test Site:	MRT Technology (Suzhou) Co., Ltd
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
MRT Registration No.:	809388
FCC Rule Part(s):	Part 15.249
Model No.:	Ultra8, Ultra13, Ultra18, Ultra25, U800, U1300, U1800, U2500
FCC ID:	2ABES-ULTRA8
Test Device Serial No.:	N/A <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering
FCC Classification:	Low Power Communication Device Transmitter (DXX)

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. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- 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-4179, G-814, C-4664, T-2206) 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 and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



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, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	Remote Control
Model No.	Ultra8, Ultra13, Ultra18, Ultra25, U800, U1300, U1800, U2500
Working Voltage	DC 3.0V
Working Frequency	2403 MHz ~ 2480MHz
Type of Modulation	GFSK
Antenna Type	PCB Antenna
Antenna Gain	2dBi

2.2. Mode of Operation

All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit

2.3. Test Configuration

The **Remote Control FCC ID: 2ABES-ULTRA8** was tested as described in this report is in compliance with the requirements limits of FCC Rules Part 15.207, 15.209, 15.215 and 15.249. ANSI C63.10-2009 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.4. EMI Suppression Device(s)/Modifications

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

2.5. 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 trade name and FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

2.6. Test Software

The test unit set it by pressing the down , left ,or right button on the EUT and make the EUT work through batteries, the EUT will enter the test mode and continues transmits signal.

3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2009), and the requirements provided in FCC 15.207, 15.209, 15.215 and 15.249 were performed in the report of the **Remote Control FCC ID: 2ABES-ULTRA8**.
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, 50Ω/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 is 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 C63.10-2009 at Clause 4.3.

Line conducted emissions test results are shown in Section 7.2.

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 was placed on top of the 0.8 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 BeamWidth 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 **Remote Control** is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The **Remote Control FCC ID: 2ABES-ULTRA8** unit complies with the requirement of §15.203.

5. TEST EQUIPMENT CALIBRATION DATE

Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2016/04/23
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2015/12/13
Loop Antenna	Schwarzbeck	FMZB1519	MRTSUE06025	1 year	2015/11/08
TRILOG Antenna	Schwarzbeck	VULB9162	MRTSUE06022	1 year	2015/11/08
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06023	1 year	2015/11/08
Broadband Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06024	1 year	2015/12/11
Temperature/Humidity Meter	Anymetre	TH101B	MRTSUE06046	1 year	2015/11/14

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 $k = 2$.

Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 9kHz ~ 1GHz: $\pm 4.18\text{dB}$ 1GHz ~ 18GHz: $\pm 4.76\text{dB}$

7. TEST RESULT

7.1. Summary

Company Name: Pathway Innovations and Technologies, Inc.

FCC ID: 2ABES-ULTRA8

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	N/A	Section 7.2
15.209 15.249	General Field Strength Limits	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.	Radiated	Pass	Section 7.3 & 7.4

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.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

7.2. Conducted Emission

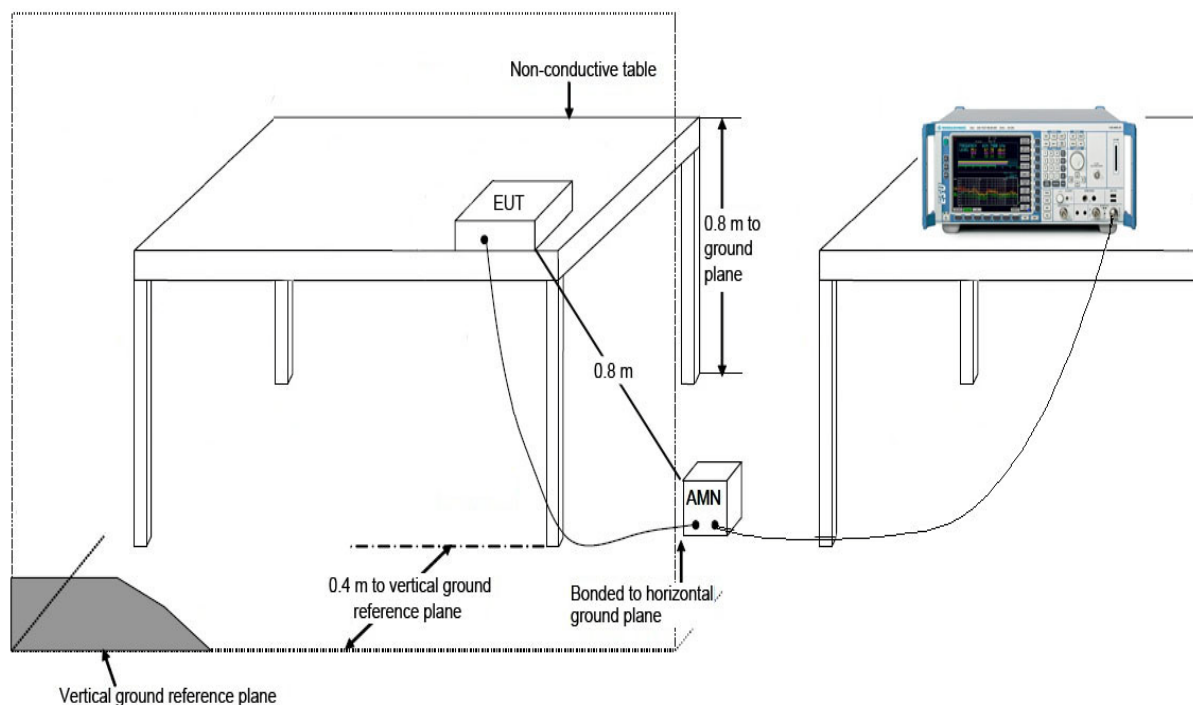
7.2.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
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 0.15 MHz to 0.5 MHz.

7.2.2. Test Setup



7.2.3. Test Result

The EUT was battery-powered device, not applicable for this test item.

7.3. Radiated Emission

7.3.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (uV/m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-80	100**	3
80-216	150**	3
216-960	200**	3
Above 960	500	3

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

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m).

FCC Part 15 Subpart C Paragraph 15.249		
Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902-928(MHz)	50	500
2400-2483.5(MHz)	50	500
5725-5875(MHz)	50	500
24.0-24.25(GHz)	250	2500

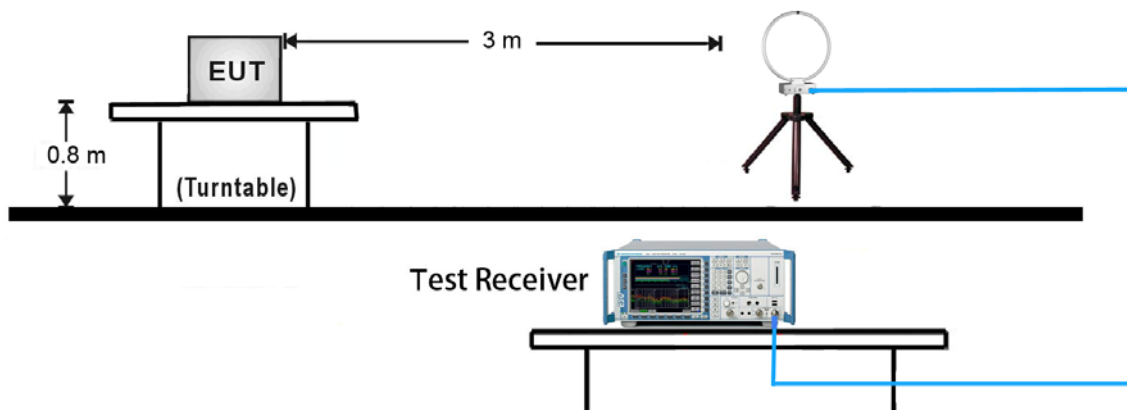
FCC Part 15.249 (d), Emissions radiated outside of the specified frequency bands, except for

harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general

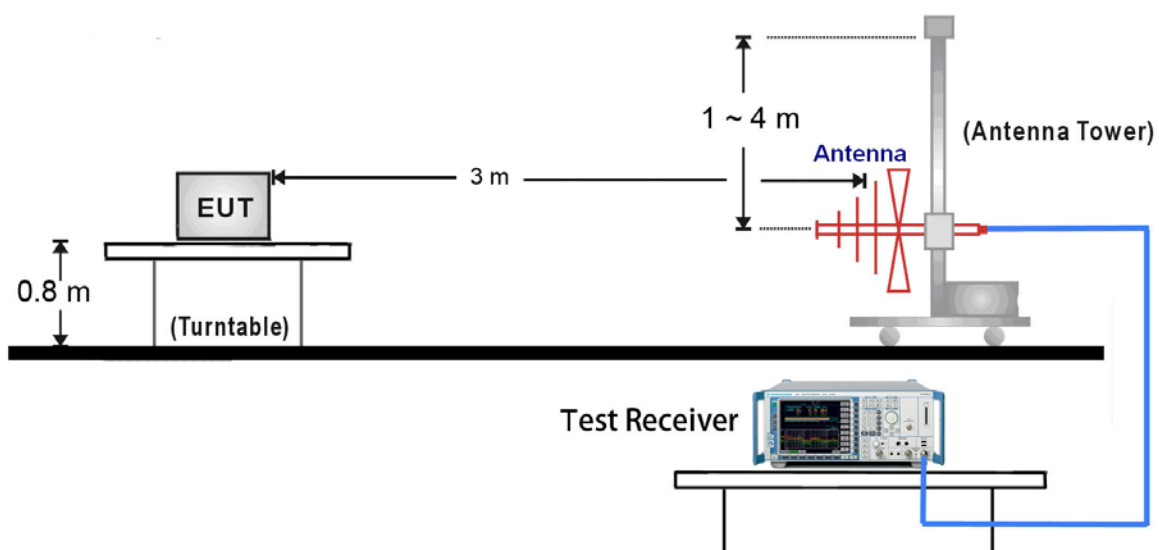
radiated emission limits in §15.209, whichever is the lesser attenuation.

7.3.2. Test Setup

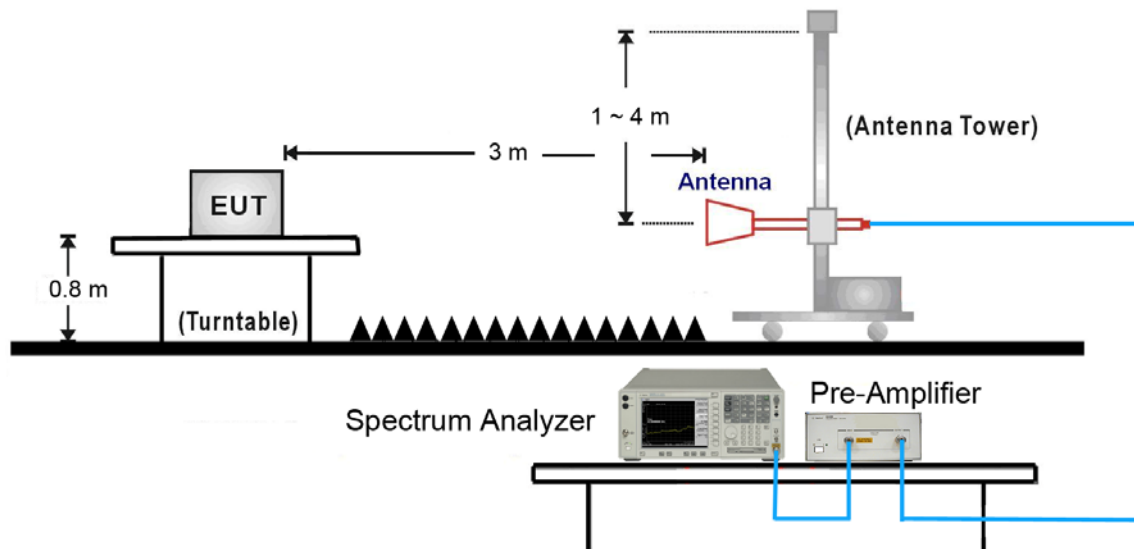
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



1GHz ~ 25GHz Test Setup:



7.3.3. Test Result

Test Mode:	Transmission	Test Site:	AC1
Test Engineer:	Roy Cheng	Test Date:	2015.05.18
Remark:	Fundamental Radiated Emission		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
2403	62.7	31.2	93.9	114.0	-20.1	PK	Horizontal
	62.5	31.2	93.7	94.0	-0.3	AV	Horizontal
	53.6	31.2	84.8	114.0	-29.2	PK	Vertical
	53.2	31.2	84.4	94.0	-9.6	AV	Vertical
2442	61.4	31.2	92.6	114.0	-21.4	PK	Horizontal
	60.3	31.2	91.5	94.0	-2.5	AV	Horizontal
	52.9	31.2	84.1	114.0	-29.9	PK	Vertical
	51.5	31.2	82.7	94.0	-11.3	AV	Vertical
2480	61.9	31.2	93.0	114.0	-21.0	PK	Horizontal
	61.6	31.2	92.8	94.0	-1.2	AV	Horizontal
	49.2	31.2	80.4	114.0	-33.6	PK	Vertical
	48.6	31.2	79.8	94.0	-14.2	AV	Vertical

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

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

Test Mode:	Transmission	Test Site:	AC1
Test Engineer:	Roy Cheng	Test Date:	2015.05.18
Remark:	Harmonic Radiated Emission		
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. The worst case of Radiated Spurious Emission. 3. 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
	4808.0	38.2	2.7	40.9	74.0	-33.1	PK	Horizontal
	4808.0	37.9	2.7	40.6	54.0	-13.4	AV	Horizontal
	4808.0	39.3	2.7	42.0	74.0	-32.0	PK	Vertical
	4808.0	38.6	2.7	41.3	54.0	-12.7	AV	Vertical
*	7205.0	39.0	7.8	46.8	74.0	-27.2	PK	Horizontal
*	7205.5	38.5	7.8	46.3	54.0	-7.7	AV	Horizontal
*	7213.5	39.6	7.8	47.4	74.0	-26.6	PK	Vertical
*	7215.0	38.9	7.8	46.7	54.0	-7.3	AV	Vertical
*	9612.0	35.4	10.9	46.3	74.0	-27.7	PK	Horizontal
*	9612.3	33.8	10.9	44.7	54.0	-9.3	AV	Horizontal
*	9612.0	35.4	10.9	46.3	74.0	-27.7	PK	Vertical
*	9612.5	33.5	10.9	44.4	54.0	-9.6	AV	Vertical
	12015.0	35.3	11.9	47.2	74.0	-26.8	PK	Horizontal
	12015.0	34.0	11.9	45.9	54.0	-8.1	AV	Horizontal
	12015.0	35.2	11.9	47.1	74.0	-26.9	PK	Vertical
	12015.2	33.7	11.9	45.6	54.0	-8.4	AV	Vertical

Note 1: “*” is not in restricted band, its limit is 50dBc of the fundamental emission level (93.9dBμV/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).

Test Mode:	Transmission	Test Site:	AC1
Test Engineer:	Roy Cheng	Test Date:	2015.05.18
Remark:	The worst case of General Radiated Emission		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
398.1	16.0	16.6	32.6	46.0	-13.4	QP	Horizontal
475.7	16.2	17.8	34.0	46.0	-12.0	QP	Horizontal
216.7	14.8	12.5	27.3	46.0	-18.7	QP	Vertical
622.7	15.3	20.2	35.6	46.0	-10.4	QP	Vertical
2207.0	42.9	-3.6	39.3	74.0	-34.7	PK	Horizontal
3227.0	39.3	-1.6	37.6	74.0	-36.4	PK	Horizontal
2241.0	41.4	-3.5	37.9	74.0	-36.1	PK	Vertical
3235.5	38.9	-1.7	37.2	74.0	-36.8	PK	Vertical

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

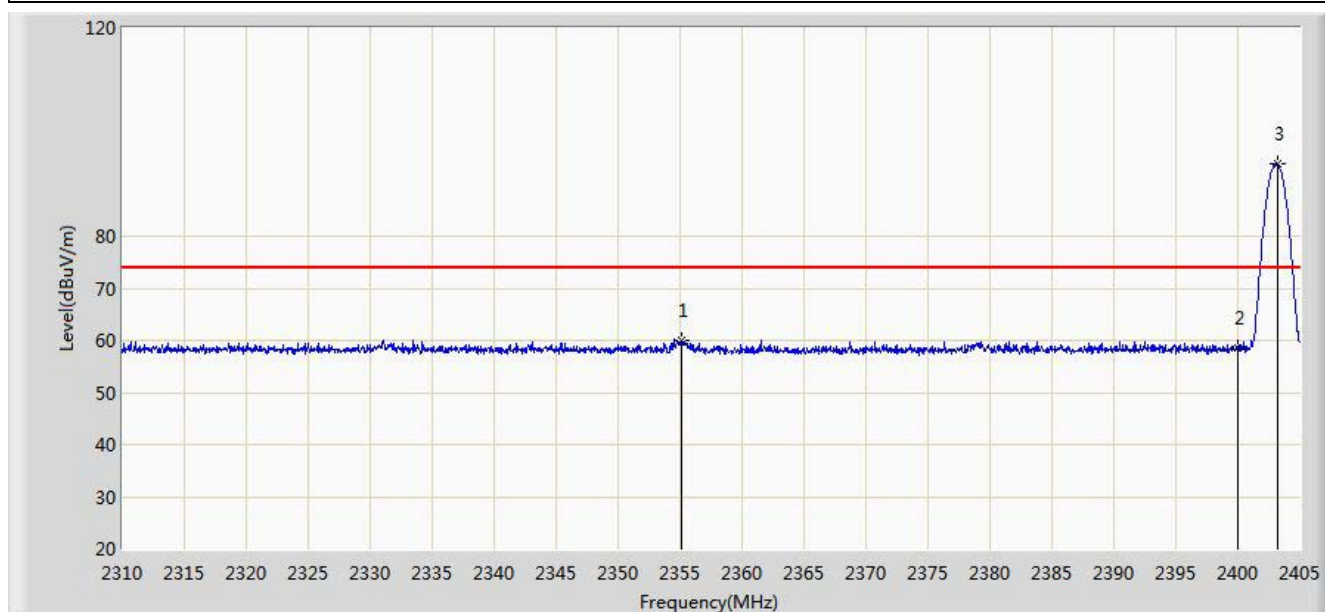
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre Amplifier Gain (dB)

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.

7.4. Radiated Outside of The Specified Frequency Bands Measurement

7.4.1. Test Result

Site: AC1	Time: 2015/05/19 - 18:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Remote Control	Power: By Battery
Note: Mode 1	

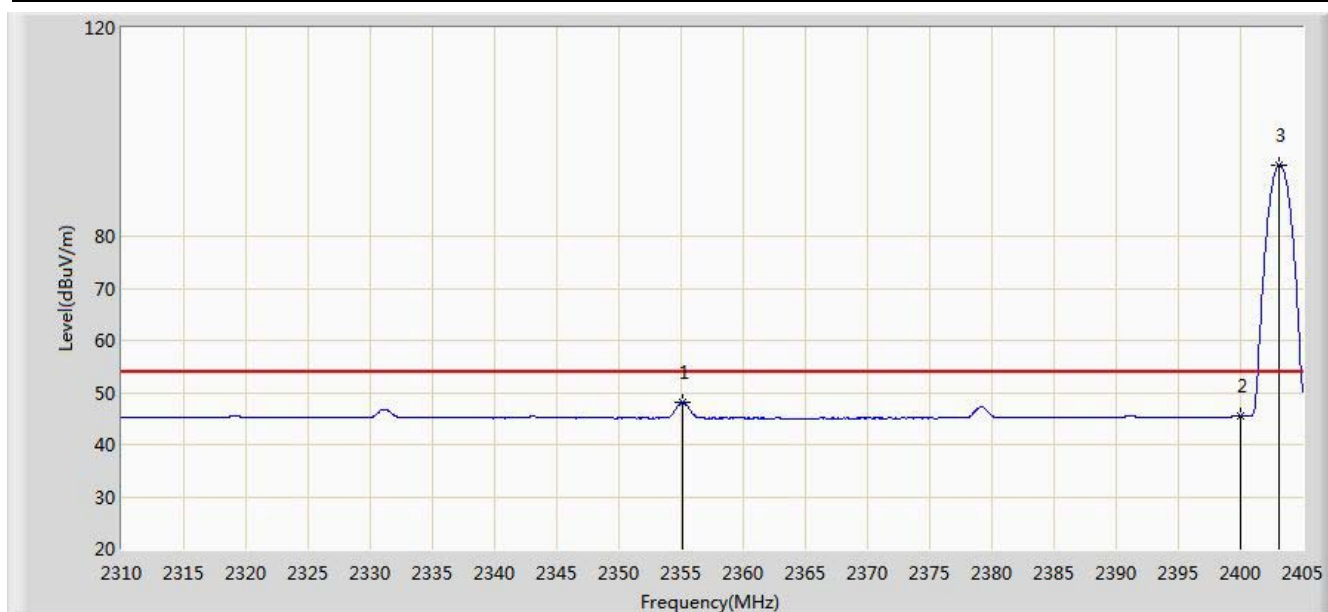


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2355.125	60.082	28.809	-13.918	74.000	31.273	PK
2			2400.000	58.579	27.392	-15.421	74.000	31.187	PK
3		*	2403.195	93.858	62.676	N/A	N/A	31.183	PK

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

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

Site: AC1	Time: 2015/05/19 - 18:58
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Remote Control	Power: By Battery
Note: Mode 1	

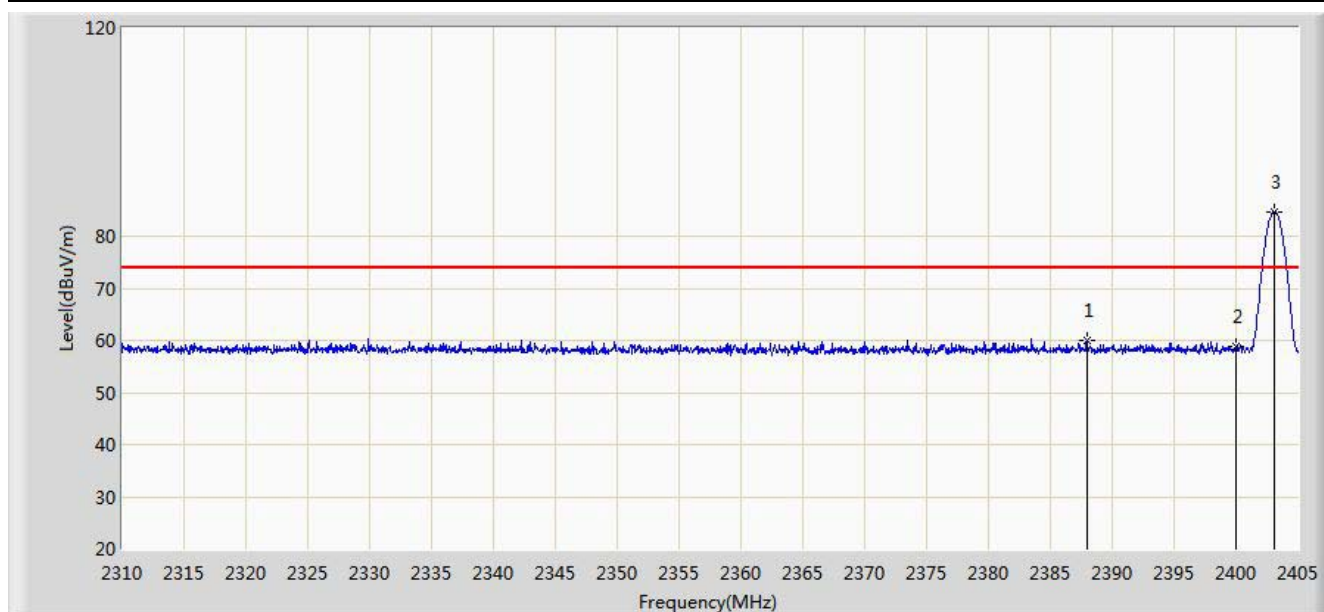


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2355.173	48.221	16.948	-5.779	54.000	31.273	AV
2			2400.000	45.499	14.312	-8.501	54.000	31.187	AV
3		*	2403.052	93.665	62.482	N/A	N/A	31.183	AV

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

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

Site: AC1	Time: 2015/05/19 - 18:59
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Remote Control	Power: By Battery
Note: Mode 1	

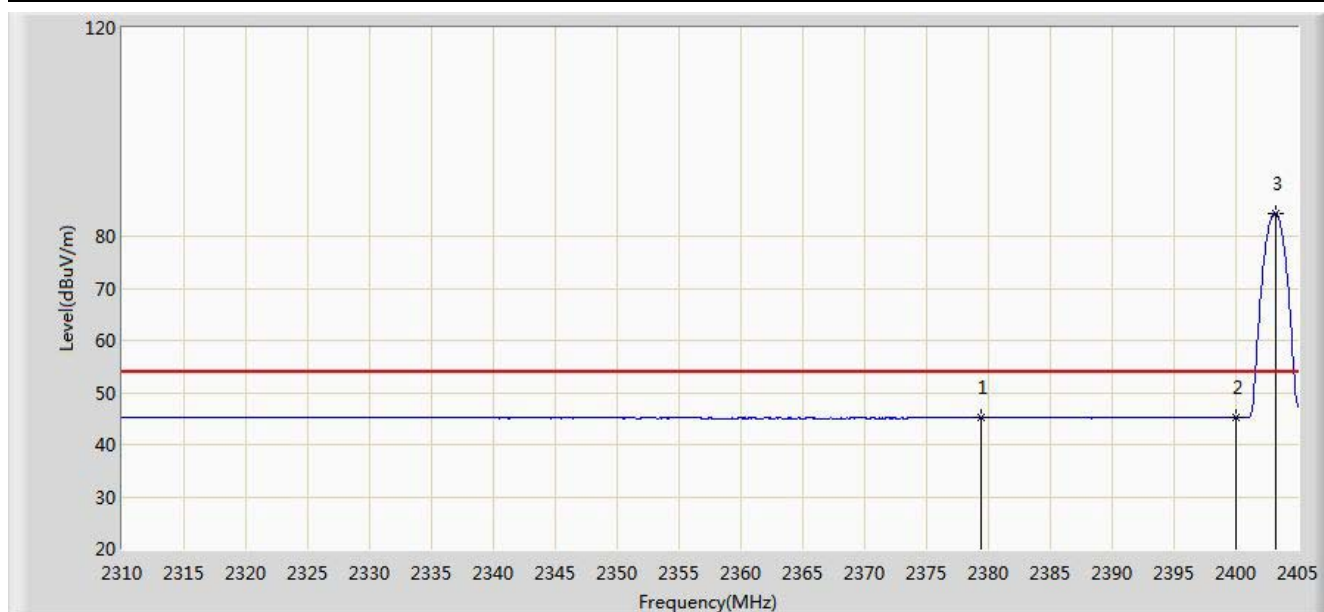


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.948	59.956	28.749	-14.044	74.000	31.206	PK
2			2400.000	58.849	27.662	-15.151	74.000	31.187	PK
3		*	2403.147	84.763	53.581	N/A	N/A	31.183	PK

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

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

Site: AC1	Time: 2015/05/19 - 19:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Remote Control	Power: By Battery
Note: Mode 1	

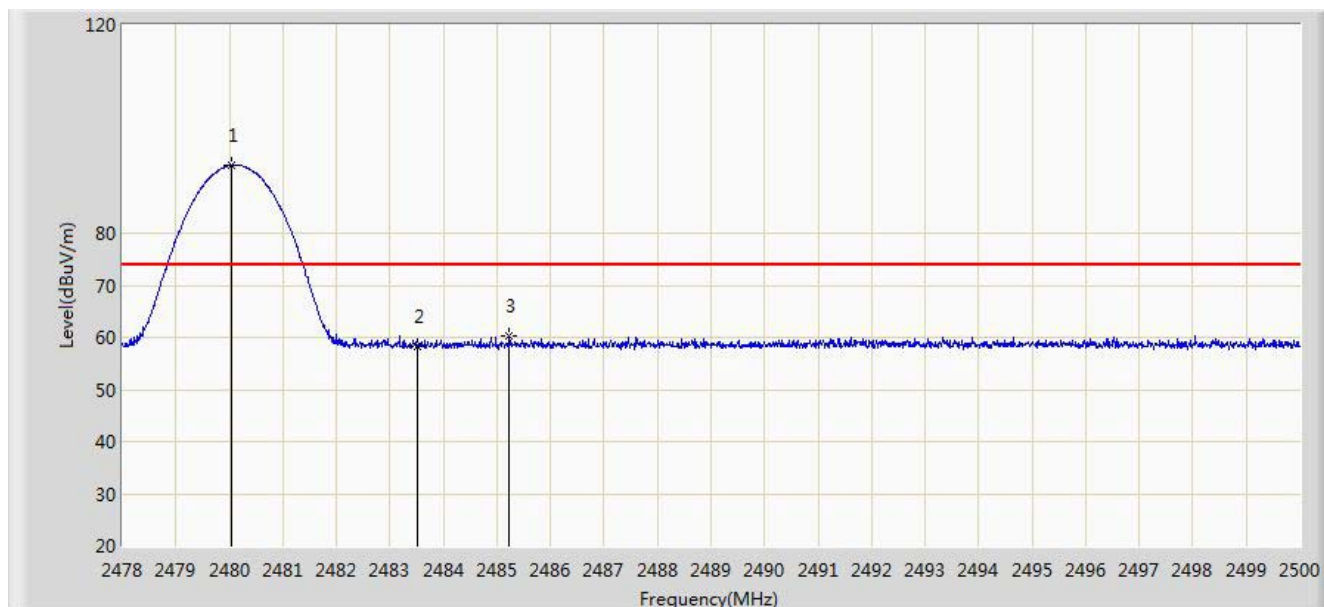


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2379.397	45.338	14.116	-8.662	54.000	31.222	AV
2			2400.000	45.209	14.022	-8.791	54.000	31.187	AV
3		*	2403.195	84.387	53.205	N/A	N/A	31.183	AV

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

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

Site: AC1	2015/05/19 - 19:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Remote Control	Power: By Battery
Note: Mode 1	

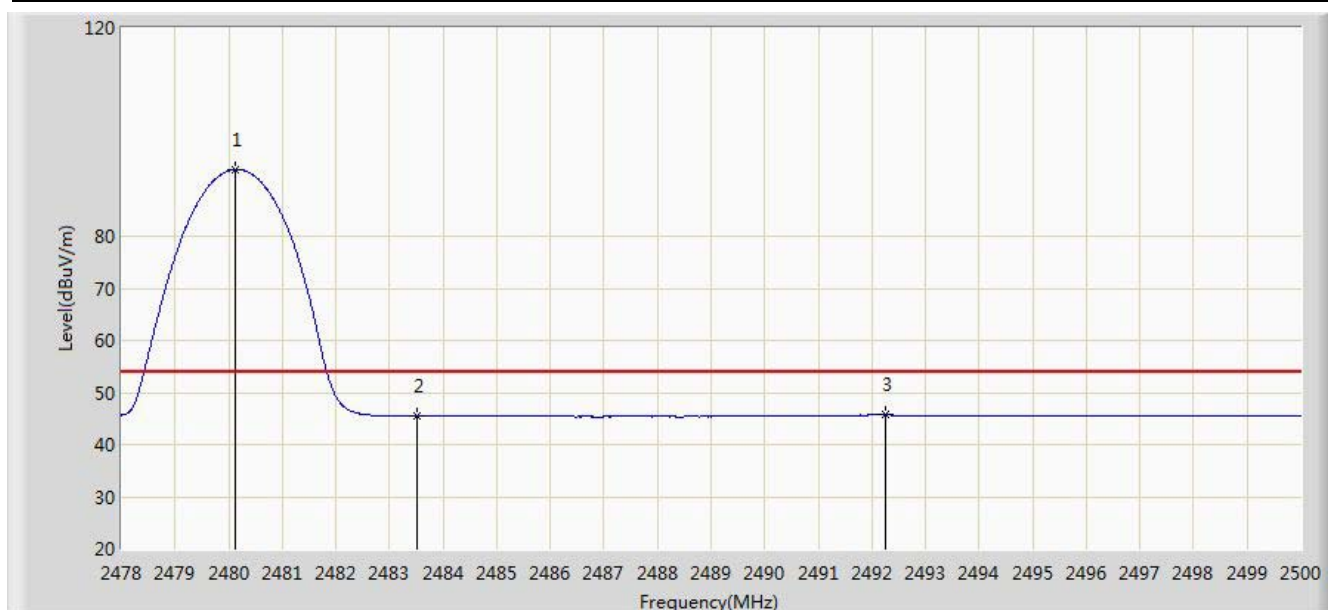


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.046	93.034	61.850	N/A	N/A	31.184	PK
2			2483.500	58.347	27.154	-15.653	74.000	31.194	PK
3			2485.227	60.423	29.225	-13.577	74.000	31.198	PK

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

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

Site: AC1	Time: 2015/05/19 - 19:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Remote Control	Power: By Battery
Note: Mode 1	

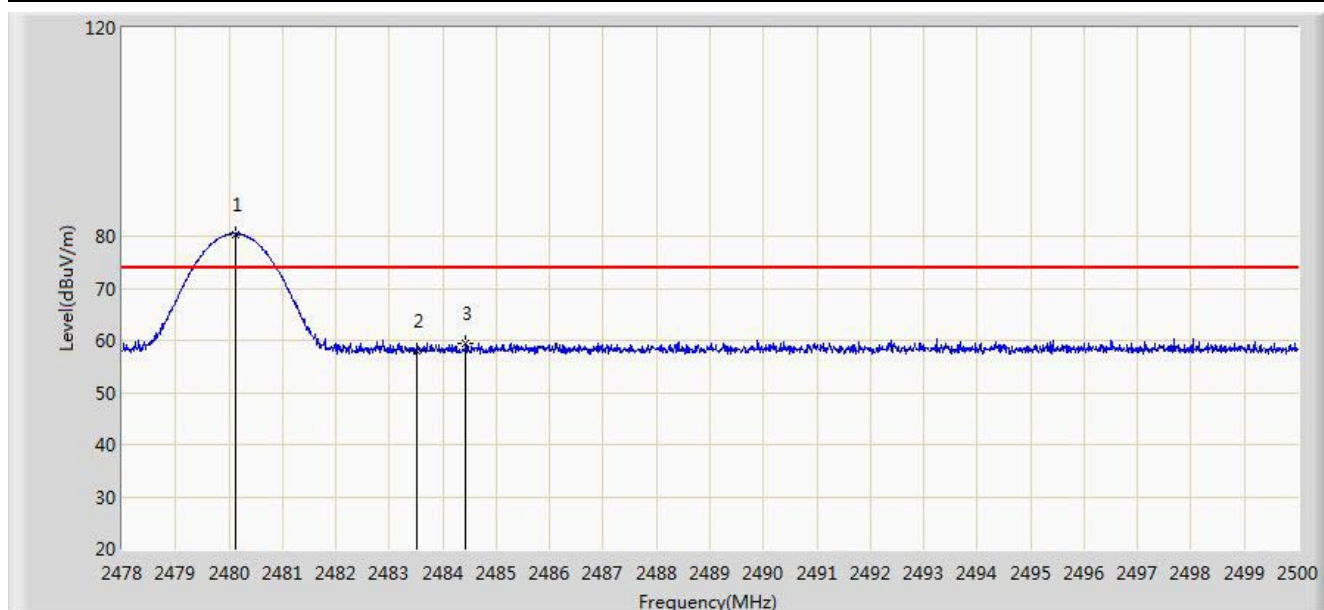


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.123	92.827	61.643	N/A	N/A	31.185	AV
2			2483.500	45.455	14.262	-8.545	54.000	31.194	AV
3			2492.256	45.659	14.443	-8.341	54.000	31.216	AV

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

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

Site: AC1	Time: 2015/05/19 - 19:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Remote Control	Power: By Battery
Note: Mode 1	

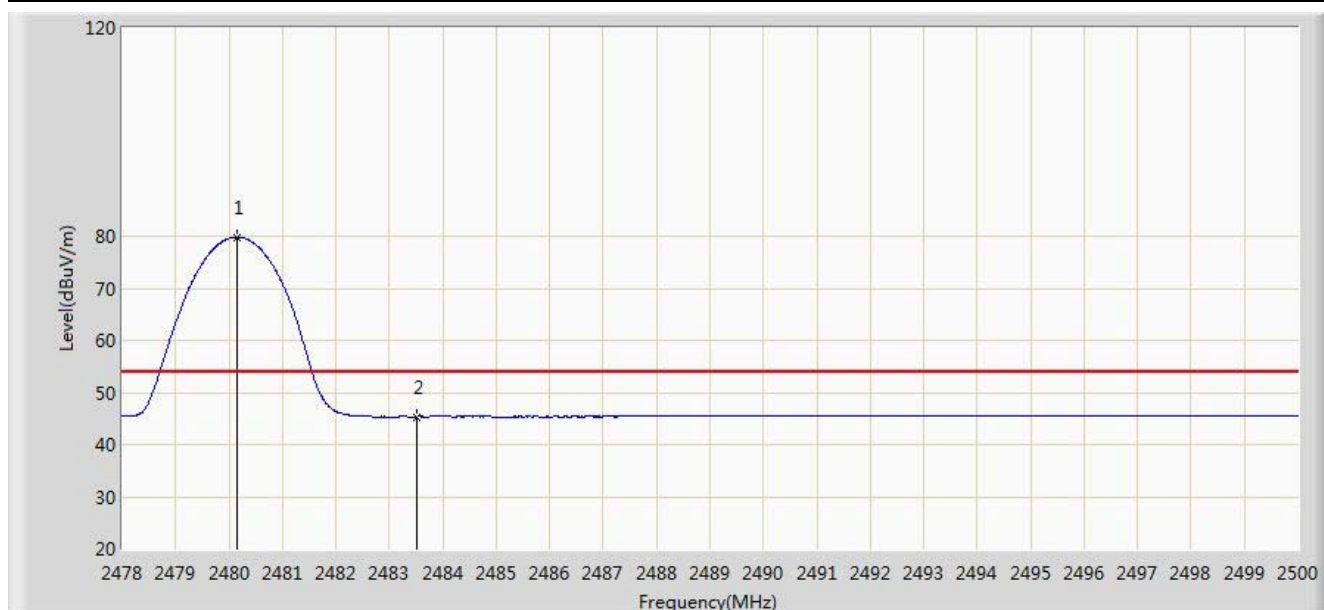


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.112	80.425	49.241	N/A	N/A	31.184	PK
2			2483.500	57.997	26.804	-16.003	74.000	31.194	PK
3			2484.435	59.548	28.352	-14.452	74.000	31.195	PK

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

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

Site: AC1	Time: 2015/05/19 - 19:08
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Remote Control	Power: By Battery
Note: Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.145	79.828	48.644	N/A	N/A	31.185	AV
2			2483.500	45.357	14.164	-8.643	54.000	31.194	AV

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

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

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Remote Control FCC ID:**

2ABES-ULTRA8 is in compliance with Part 15C of the FCC Rules.

_____ The End _____