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Report No.: 1710RSU02505 Report Version: V01 Issue Date: 11-16-2017

MEASUREMENT REPORT

FCC PART 15.247 Bluetooth BLE

FCC ID : 2Al3G-A7215

APPLICANT: Pico Technology Co., Ltd.

Application Type : Certification

Product : VR All-In-One Headset

Model No. : A7215

Brand Name : OPICO

FCC Classification : Digital Transmission System (DTS)

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

Test Procedure(s) : ANSI C63.10-2013, KDB 558074 D01v04

Test Date : October 30 ~ November 16, 2017

Reviewed By : Jame guan

(Jame Yuan)

Approved By : Marlinchen

(Marlin Chen)



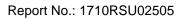


The test results relate only to the samples tested.

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 KDB 558074 D01v04. 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
1710RSU02505	Rev. 01	Initial report	11-16-2017	Valid

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8.



§2.1033 General Information

Applicant:	Pico Technology Co., Ltd.
Applicant Address:	Room 2101, Shining Tower, No.35 Xueyuan Road, HaiDian District,
	Beijing, The People's Republic of China
Manufacturer:	Pico Technology Co., Ltd.
Manufacturer Address:	Room 2101, Shining Tower, No.35 Xueyuan Road, HaiDian District,
	Beijing, The People's Republic of 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.:	893164
FCC Rule Part(s):	Part 15.247
Model No.:	A7215
FCC ID:	2AI3G-A7215
Test Device Serial No.:	N/A ☐ Production ☐ Pre-Production ☐ Engineering
FCC Classification:	Digital Transmission System (DTS)

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 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.



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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.



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2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name	VR All-In-One Headset	
Model No.	A7215	
Wi-Fi Specification	802.11a/b/g/n/ac	
Bluetooth Version	v4.2 dual mode	
Components		
Adapter	M/N: HUUS090200-K00	
	INPUT: 100-240V ~ 50/60Hz, 0.5A	
	OUTPUT: 5Vdc, 2.0A OR 9Vdc, 2.0A	

2.2. Product Specification Subjective to this Report

Bluetooth Frequency	2402~2480MHz
Bluetooth Version	v4.2
Type of modulation	GFSK
Data Rate	1Mbps
Antenna Type	Stamping Antenna
Antenna Gain	3.28dBi

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

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2.3. Working Frequencies

Channel List for BLE

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				

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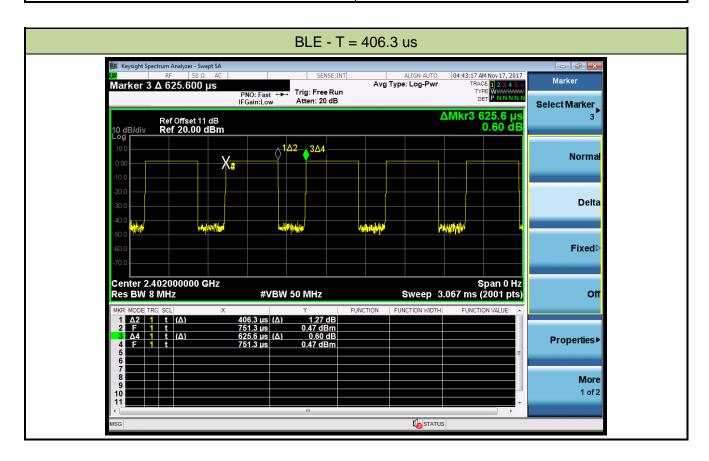
2.4. Device Capabilities

This device contains the following capabilities:

2.4GHz WLAN (DTS), 5GHz WLAN (UNII), Bluetooth (v4.2 Dual mode)

Note: 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:

Test Mode	Duty Cycle
BLE	64.95%



2.5. Test Configuration

The **VR All-In-One Headset FCC ID: 2Al3G-A7215** was tested per the guidance of KDB 558074 D01v04. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.6. EMI Suppression Device(s)/Modifications

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

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2.7. 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.

2.8. Test Software

The test utility software used during testing was "QRCT", and the version was "3.0.210.0".

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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), and the guidance provided in KDB 558074 D01v04 were used in the measurement of the VR All-In-One Headset FCC ID: 2Al3G-A7215.

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, $50\Omega/50uH$ 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.

Line conducted emissions test results are shown in Section 7.8.

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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 VR All-In-One Headset is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The VR All-In-One Headset 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	2018/04/25
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2018/06/21
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2018/06/21
Temperature/Humidity Meter	Yuhuaze	HTC-2	MRTSUE06181	1 year	2017/12/22
Shielding Anechoic Chamber	Mikebang	Chamber-SR2	MRTSUE06214	1 year	2018/05/10

Radiated Emissions - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
MXE EMI Receiver	Agilent	N9038A	MRTSUE06125	1 year	2018/08/18
Microwave System Amplifier	Agilent	83017A	MRTSUE06076	1 year	2018/03/28
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2018/04/16
Loop Antenna	Schwarzbeck	FMZB1519	MRTSUE06025	1 year	2017/11/21
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2017/12/10
Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06023	1 year	2018/10/21
Broadband Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06024	1 year	2018/01/04
Temperature/Humidity Meter	Yuhuaze	HTC-2	MRTSUE06183	1 year	2017/12/22
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06212	1 year	2018/05/10

Conducted Test Equipment - TR3

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
MXE EMI Receiver	Agilent	N9038A	MRTSUE06125	1 year	2018/08/18
Power Meter	Agilent	U2021XA	MRTSUE06030	1 year	2017/12/06
Temperature/Humidity Meter	Yuhuaze	HTC-2	MRTSUE06180	1 year	2017/12/22

Software	Version	Function
e3	V8.3.5	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)):

150kHz~30MHz: 3.46dB

Radiated Emission Measurement - AC1

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

9kHz ~ 1GHz: 4.18dB 1GHz ~ 25GHz: 4.76dB

Spurious Emissions, Conducted - TR3

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

0.78dB

Output Power - TR3

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

1.13dB

Power Spectrum Density - TR3

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

1.15dB

Occupied Bandwidth - TR3

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

0.28%

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7. TEST RESULT

7.1. Summary

Company Name: <u>Pico Technology Co., Ltd.</u>

FCC ID: <u>2AI3G-A7215</u>

FCC Classification: <u>Digital Transmission System (DTS)</u>

Data Rate(s) Tested: 1Mbps(GFSK) (BLE)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	≥ 500kHz		Pass	Section 7.2
15.247(b)(3)	Output Power	≤ 1Watt	Conducted -	Pass	
15.247(e)	Power Spectral Density	≤ 8dBm / 3kHz		Pass	Section 7.4
15.247(d)	Band Edge / Out-of-Band Emissions	≥ 20dBc(Peak)		Pass	Section 7.5
15.205 15.209	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	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 (X axis, detail see test setup photo).
- 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.

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7.2. 6dB Bandwidth Measurement

7.2.1. Test Limit

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

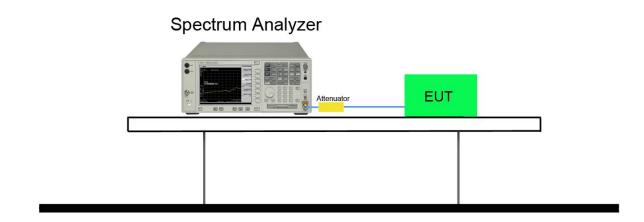
7.2.2. Test Procedure used

KDB 558074 D01v04 - Section 8.2 Option 2

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 ≥ 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



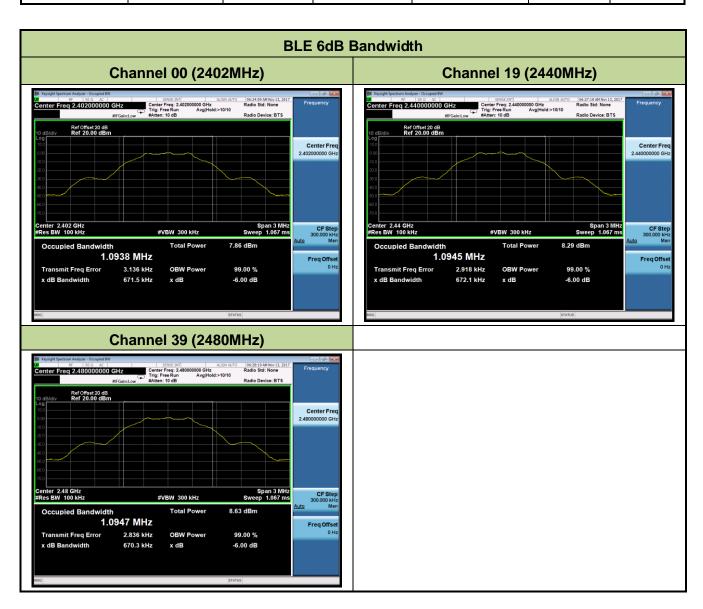
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7.2.5. Test Result

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
BLE	1	00	2402	0.67	≥ 0.5	Pass
BLE	1	19	2440	0.67	≥ 0.5	Pass
BLE	1	39	2480	0.67	≥ 0.5	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).

7.3.2. Test Procedure Used

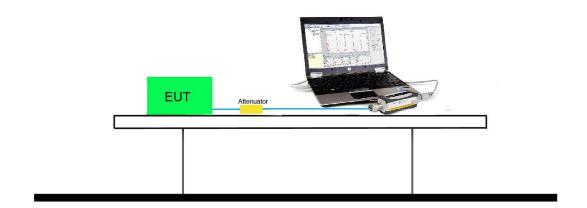
KDB 558074 D01v04 - Section 9.1.2 PKPM1 - Peak Power Method

7.3.3. Test Setting

Method PKPM1 (Peak Power Measurement of Signals with DTS BW ≤ 50MHz)

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.

7.3.4. Test Setup



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7.3.5. Test Result of Output Power

Test Result of Peak Output Power

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1	00	2402	2.44	≤ 30	Pass
BLE	1	19	2440	2.84	≤ 30	Pass
BLE	1	39	2480	3.13	≤ 30	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency	Average Limit		Result
	(Mbps)		(MHz)	Power (dBm)	(dBm)	
BLE	1	00	2402	1.56	≤ 30	Pass
BLE	1	19	2440	2.02	≤ 30	Pass
BLE	1	39	2480	2.39	≤ 30	Pass

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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.

7.4.2. Test Procedure Used

KDB 558074 D01v04 - Section 10.2 Method PKPSD

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

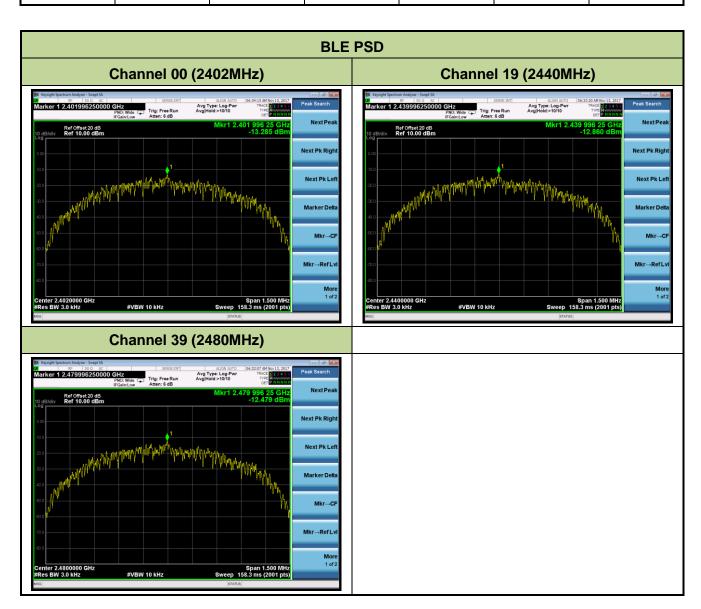
Spectrum Analyzer Attenuator EUT

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7.4.5. Test Result

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1	00	2402	-13.29	≤ 8	Pass
BLE	1	19	2440	-12.86	≤ 8	Pass
BLE	1	39	2480	-12.48	≤ 8	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

KDB 558074 D01v04 - Section 11.2 & Section 11.3

7.5.3. Test Settitng

1. Reference level measurement

- (a) Set instrument center frequency to DTS channel center frequency
- (b) Set the span to ≥ 1.5 times the DTS bandwidth
- (c) Set the RBW = 100 kHz
- (d) Set the VBW \geq 3 x RBW
- (e) Detector = peak
- (f) Sweep time = auto couple
- (g) Trace mode = max hold
- (h) Allow trace to fully stabilize

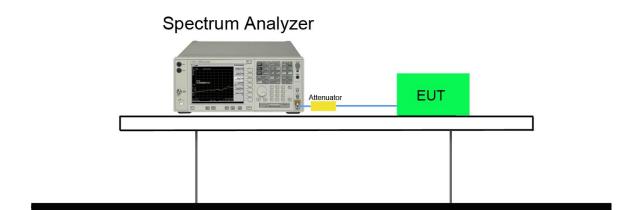
2. Emission level measurement

- (a) Set the center frequency and span to encompass frequency range to be measured
- (b) RBW = 100kHz
- (c) VBW = 300kHz
- (d) Detector = Peak
- (e) Number of sweep points ≥ 2 x Span/RBW
- (f) Trace mode = max hold
- (g) Sweep time = auto couple
- (h) The trace was allowed to stabilize

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7.5.4. Test Setup



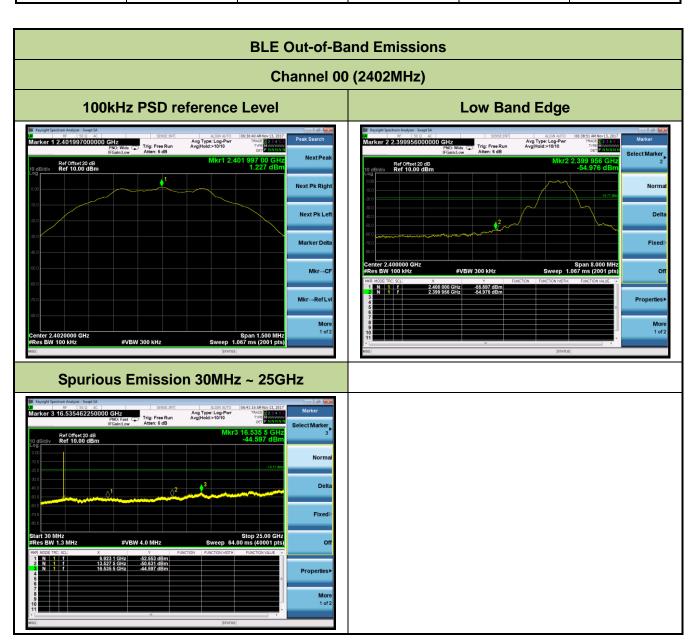
FCC ID: 2Al3G-A7215 Page Number: 24 of 47

Report No.: 1710RSU02505



7.5.5. Test Result

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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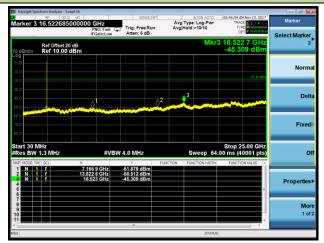




100kHz PSD reference Level



Spurious Emission 30MHz ~ 25GHz

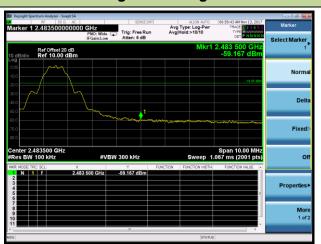


Channel 39 (2480MHz)

100kHz PSD reference Level



High Band Edge



Spurious Emission 30MHz ~ 25GHz



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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 [uV/m]	Measured Distance [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

KDB 558074 D01v04 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v04 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v04 - Section 12.2.5 (average power measurements)

7.6.3. Test Setting

Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v04

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = as specified in Table 1
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple

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- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

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

Average Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v04

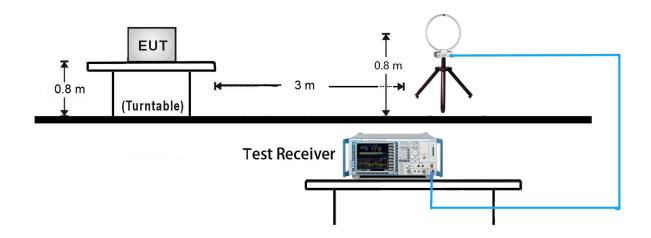
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB 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

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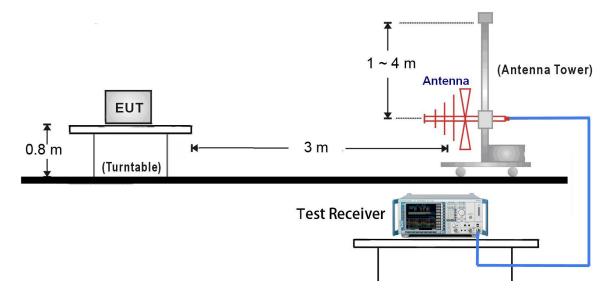


7.6.4. Test Setup

9kHz ~ 30MHz Test Setup:



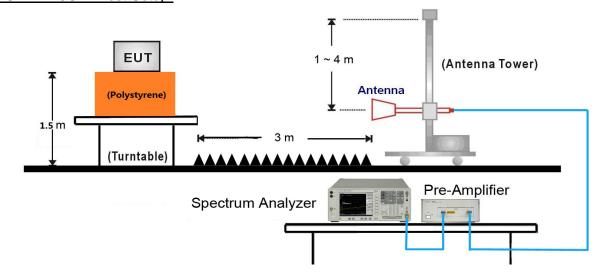
30MHz ~ 1GHz Test Setup:



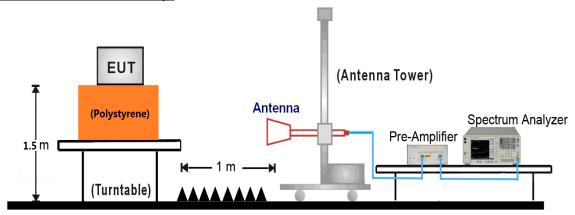
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1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:



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7.6.5. Test Result

Remark: There are the ambient noise within frequency range 9 kHz \sim 30 MHz and 18GHz \sim 25GHz, the permissible value is not show in the report.

Test Mode:	BLE	Test Site:	AC1				
Test Channel:	00	Test Engineer:	Bruce Wang				
Remark:	Average measurement was not performed if peak level lower than average						
	limit.						
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show					
	in the report.						

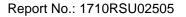
Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	3864.5	35.7	0.1	35.8	74.0	-38.2	Peak	Horizontal
	4833.5	35.4	2.7	38.1	74.0	-35.9	Peak	Horizontal
*	6525.0	35.3	5.9	41.2	74.0	-32.8	Peak	Horizontal
*	9933.5	34.7	11.5	46.2	74.0	-27.8	Peak	Horizontal
	3856.0	36.7	0.1	36.8	74.0	-37.2	Peak	Vertical
	4901.5	36.1	2.7	38.8	74.0	-35.2	Peak	Vertical
*	6559.0	36.0	6.0	42.0	74.0	-32.0	Peak	Vertical
*	9865.5	33.8	11.6	45.4	74.0	-28.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (90.2dBµV/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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Test Mode:	BLE	Test Site:	AC1				
Test Channel:	19	Test Engineer:	Bruce Wang				
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.						

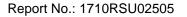
Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	3873.0	36.5	0.1	36.6	74.0	-37.4	Peak	Horizontal
	4816.5	37.1	2.7	39.8	74.0	-34.2	Peak	Horizontal
*	6448.5	35.2	5.7	40.9	74.0	-33.1	Peak	Horizontal
*	9950.5	35.0	11.5	46.5	74.0	-27.5	Peak	Horizontal
	3864.5	36.4	0.1	36.5	74.0	-37.5	Peak	Vertical
	4791.0	34.4	2.7	37.1	74.0	-36.9	Peak	Vertical
*	6525.0	35.1	5.9	41.0	74.0	-33.0	Peak	Vertical
*	9933.5	34.6	11.5	46.1	74.0	-27.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (90.9dB μ V/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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Test Mode:	BLE	Test Site:	AC1						
Test Channel:	39	Test Engineer:	Bruce Wang						
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
	3839.0	36.0	0.1	36.1	74.0	-37.9	Peak	Horizontal
	4825.0	35.9	2.7	38.6	74.0	-35.4	Peak	Horizontal
*	6508.0	34.2	6.0	40.2	74.0	-33.8	Peak	Horizontal
*	9780.5	34.3	11.4	45.7	74.0	-28.3	Peak	Horizontal
	3881.5	34.8	0.1	34.9	74.0	-39.1	Peak	Vertical
	4808.0	35.7	2.7	38.4	74.0	-35.6	Peak	Vertical
*	6525.0	35.5	5.9	41.4	74.0	-32.6	Peak	Vertical
*	9814.5	33.5	11.6	45.1	74.0	-28.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (91.3dBµV/m) or 15.209 which is higher.

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

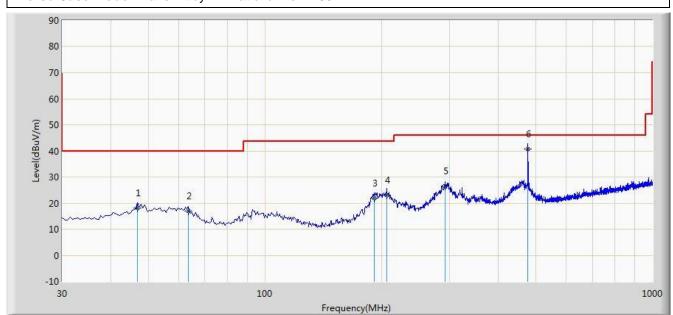
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

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The worst case of Radiated Emission below 1GHz:

Worse Case Mode: Transmit by BLE at channel 2480MHz					
EUT: VR All-In-One Headset	Power: By Battery				
Probe: VULB9168_20-2000MHz	Polarity: Horizontal				
Limit: FCC_Part15.209_RE(3m)	Engineer: Snake Ni				
Site: AC1	Time: 2017/11/15 - 15:31				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			46.975	18.180	3.200	-21.820	40.000	14.980	QP
2			63.465	16.818	3.760	-23.182	40.000	13.058	QP
3			191.505	21.869	9.980	-21.631	43.500	11.889	QP
4			206.055	23.091	10.710	-20.409	43.500	12.382	QP
5			291.900	26.582	12.180	-19.418	46.000	14.401	QP
6		*	477.655	40.640	22.680	-5.360	46.000	17.960	QP

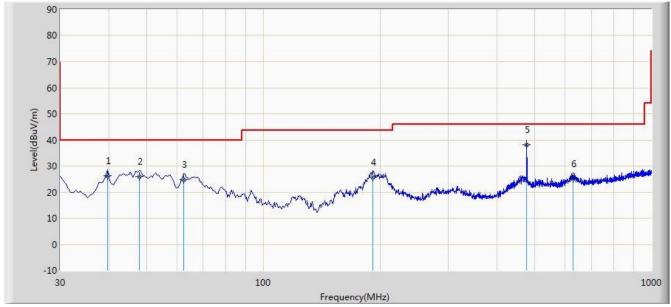
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

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

FCC ID: 2Al3G-A7215 Page Number: 34 of 47



Site: AC1	Time: 2017/11/15 - 15:35				
Limit: FCC_Part15.209_RE(3m)	Engineer: Snake Ni				
Probe: VULB9168_20-2000MHz	Polarity: Vertical				
EUT: VR All-In-One Headset	Power: By Battery				
Worse Case 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			39.700	26.186	12.380	-13.814	40.000	13.806	QP
2			47.945	25.799	10.830	-14.201	40.000	14.969	QP
3			62.495	24.739	11.370	-15.261	40.000	13.369	QP
4			191.990	25.657	13.740	-17.843	43.500	11.918	QP
5		*	477.655	38.260	20.300	-7.740	46.000	17.960	QP
6			627.035	25.188	4.780	-20.812	46.000	20.408	QP

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

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

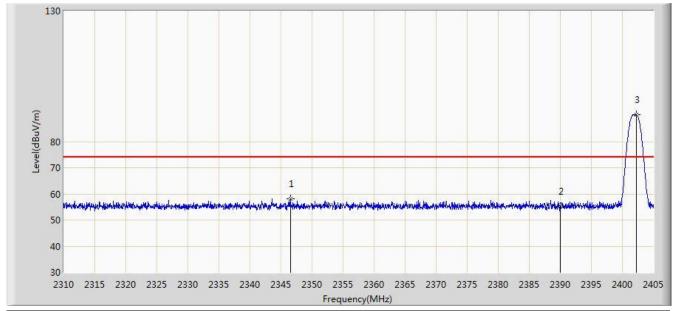
FCC ID: 2Al3G-A7215 Page Number: 35 of 47



7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Result

Site: AC1	Time: 2017/11/16 - 20:42					
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan					
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal					
EUT: VR All-In-One Headset	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			2346.528	58.248	26.942	-15.752	74.000	31.306	PK
2			2390.000	55.316	24.113	-18.684	74.000	31.203	PK
3		*	2402.292	90.231	59.047	N/A	N/A	31.184	PK

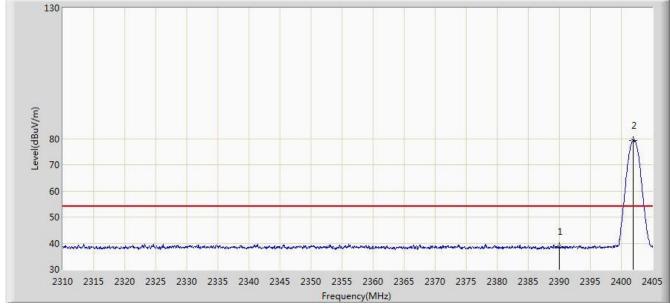
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

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

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Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: VR All-In-One Headset	Power: By Battery
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Site: AC1	Time: 2017/11/16 - 20:43



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	38.564	7.361	-15.436	54.000	31.203	AV
2		*	2401.865	79.250	48.066	N/A	N/A	31.184	AV

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

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

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Site: AC1	Time: 2017/11/16 - 20:44					
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan					
Probe: BBHA9120D_1-18GHz	Polarity: Vertical					
EUT: VR All-In-One Headset	Power: By Battery					
Test Mode: Transmit by BLE at Channel 2402MHz						

130 (w/Ngg) 80 70 60 50 40

No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2363.817	57.628	26.376	-16.372	74.000	31.252	PK
2			2390.000	56.356	25.153	-17.644	74.000	31.203	PK
3		*	2401.722	88.260	57.076	N/A	N/A	31.184	PK

2310 2315 2320 2325 2330 2335 2340 2345 2350 2355 2360 2365 2370 2375 2380 2385 2390 2395 2400 2405 Frequency(MHz)

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

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

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Site: AC1	Time: 2017/11/16 - 20:45			
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: VR All-In-One Headset	Power: By Battery			
Test Mode: Transmit by BLE at Channel 2402MHz				

130

2

70

60

50

40

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	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	38.243	7.040	-15.757	54.000	31.203	AV
2		*	2401.913	78.365	47.181	N/A	N/A	31.184	AV

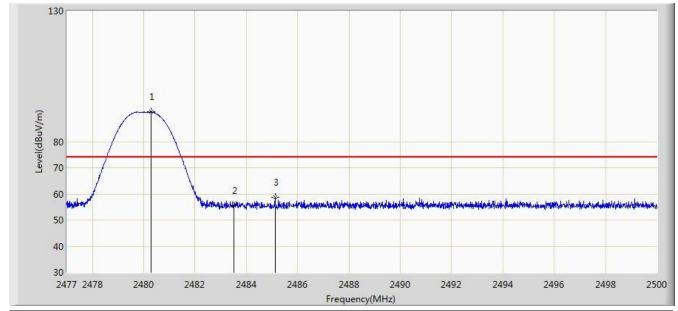
Note: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

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

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EUT: VR All-In-One Headset	Power: By Battery
Probe: BBHA9120D 1-18GHz	Polarity: Horizontal
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan
Site: AC1	Time: 2017/11/16 - 20:46



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.278	91.344	60.159	N/A	N/A	31.185	PK
2			2483.500	55.622	24.429	-18.378	74.000	31.194	PK
3			2485.119	58.647	27.449	-15.353	74.000	31.198	PK

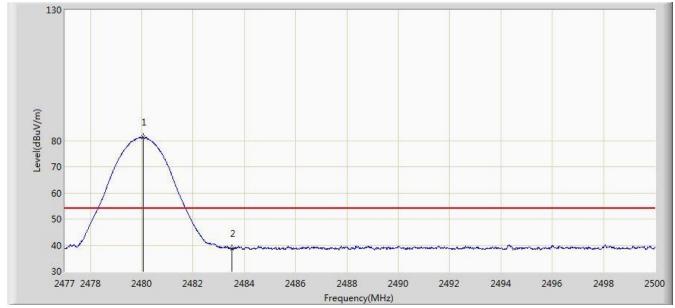
Note: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

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

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Site: AC1	Time: 2017/11/16 - 20:47			
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
EUT: VR All-In-One Headset	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		*	2480.059	81.161	49.977	N/A	N/A	31.184	AV
2			2483.500	38.595	7.402	-15.405	54.000	31.194	AV

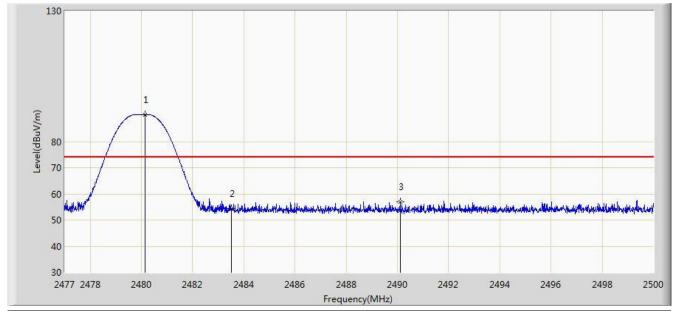
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

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

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Test Mode: Transmit by BLE at Channel 2480MHz					
EUT: VR All-In-One Headset	Power: By Battery				
Probe: BBHA9120D_1-18GHz	Polarity: Vertical				
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan				
Site: AC1	Time: 2017/11/16 - 20:48				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.139	90.242	59.058	N/A	N/A	31.185	PK
2			2483.500	54.408	23.215	-19.592	74.000	31.194	PK
3			2490.110	57.017	25.806	-16.983	74.000	31.211	PK

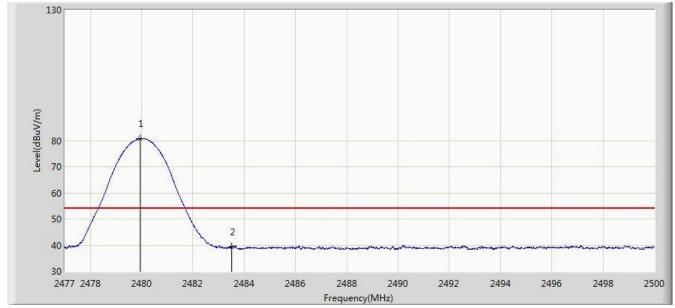
Note: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

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

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Site: AC1	Time: 2017/11/16 - 20:49			
Limit: FCC_Part15.209_RE(3m)	Engineer: Will Yan			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: VR All-In-One Headset	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		*	2479.944	80.811	49.627	N/A	N/A	31.184	AV
2			2483.500	39.185	7.992	-14.815	54.000	31.194	AV

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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7.8. AC Conducted Emissions Measurement

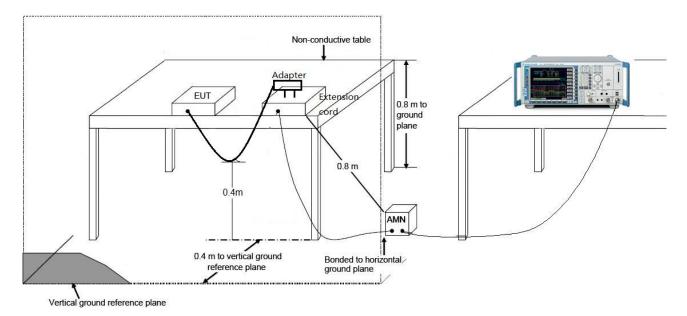
7.8.1. Test Limit

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 0.15MHz to 0.5MHz.

7.8.2. Test Setup

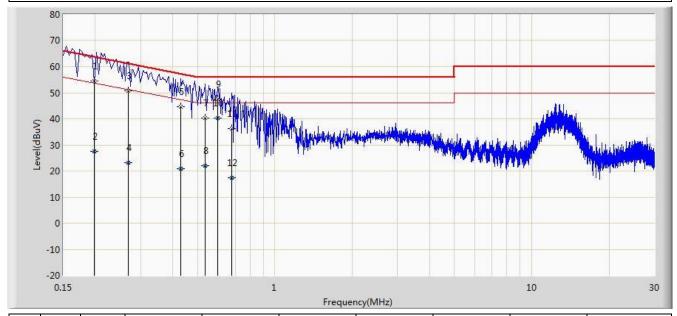


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7.8.3. Test Result

Site: SR2	Time: 2017/11/15 - 18:31			
Limit: FCC_Part15.207_CE_AC Power	Engineer: Bacon Dong			
Probe: ENV216_101683_Filter On	Polarity: Line			
EUT: VR All-In-One Headset	Power: AC 120V/60Hz			
Worst Case Mode: Transmit by BLE at channel 2480MHz				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1			0.198	54.627	44.622	-9.067	63.694	10.005	QP
2			0.198	27.486	17.481	-26.208	53.694	10.005	AV
3			0.269	50.623	40.644	-10.526	61.149	9.979	QP
4			0.269	23.146	13.167	-28.003	51.149	9.979	AV
5			0.430	44.624	34.514	-12.629	57.253	10.110	QP
6			0.430	20.895	10.785	-26.357	47.253	10.110	AV
7			0.534	40.430	30.281	-15.570	56.000	10.149	QP
8			0.534	21.924	11.775	-24.076	46.000	10.149	AV
9			0.598	47.661	37.545	-8.339	56.000	10.116	QP
10		*	0.598	40.199	30.083	-5.801	46.000	10.116	AV
11			0.678	36.366	26.292	-19.634	56.000	10.075	QP
12			0.678	17.499	7.424	-28.501	46.000	10.075	AV

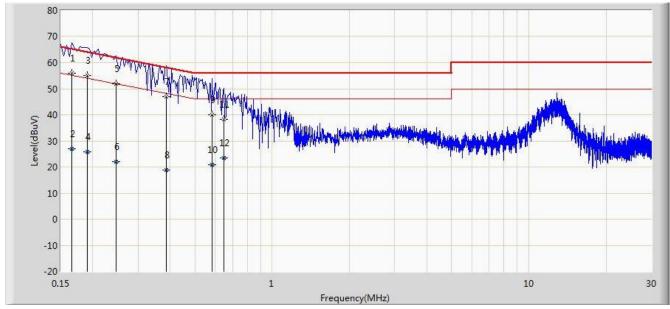
Note: Measure Level (dB μ V) = Reading Level (dB μ V) + Factor (dB)

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

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Site: SR2	Time: 2017/11/15 - 18:42				
Limit: FCC_Part15.207_CE_AC Power	Engineer: Bacon Dong				
Probe: ENV216_101683_Filter On	Polarity: Neutral				
EUT: VR All-In-One Headset	Power: AC 120V/60Hz				
Worst Case Mode: Transmit by BLE at channel 2480MHz					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1			0.166	56.014	45.942	-9.145	65.158	10.071	QP
2			0.166	26.906	16.835	-28.252	55.158	10.071	AV
3		*	0.190	54.932	44.904	-9.105	64.037	10.028	QP
4			0.190	25.793	15.765	-28.244	54.037	10.028	AV
5			0.246	51.863	41.865	-10.029	61.891	9.998	QP
6			0.246	22.046	12.048	-29.845	51.891	9.998	AV
7			0.386	47.093	36.991	-11.056	58.149	10.102	QP
8			0.386	18.981	8.880	-29.168	48.149	10.102	AV
9			0.582	40.104	29.963	-15.896	56.000	10.141	QP
10			0.582	20.755	10.615	-25.245	46.000	10.141	AV
11			0.650	38.231	28.128	-17.769	56.000	10.103	QP
12			0.650	23.369	13.265	-22.631	46.000	10.103	AV

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

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

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8. CONCLUSION

The data collected relate only the item(s) tested and show that the **VR All-In-One Headset** is in compliance with Part 15C of the FCC Rules.

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The End