

Prüfbericht-Nr.: <i>Test report No.:</i>	50264292 001	Auftrags-Nr.: <i>Order No.:</i>	168117944	Seite 1 von 36 <i>Page 1 of 36</i>	
Kunden-Referenz-Nr.: <i>Client reference No.:</i>	N/A	Auftragsdatum: <i>Order date.:</i>	03.06.2019		
Auftraggeber: <i>Client:</i>	SRP COMPANIES 85 RIO GRANDE DRIVE, SECOND FLOOR, CASTLE ROCK, CO 80104, United States				
Prüfgegenstand: <i>Test item:</i>	WIRELESS SOUND-PODS				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	M-67722				
Auftrags-Inhalt: <i>Order content:</i>	FCC approval				
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 FCC KDB Publication 447498 v06 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109				
Wareneingangsdatum: <i>Date of receipt:</i>	03.06.2019				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000930268-083 A000930268-084				
Prüfzeitraum: <i>Testing period:</i>	03.06.2019 - 01.07.2019				
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by: 25.07.2019 Jackson Yang / Project Engineer		kontrolliert von / reviewed by: 25.07.2019 Winnie Hou / Technical Certifier			
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other: FCC ID: 2ATF5160478					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

V04

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT*RESULT: Passed***5.1.2 PEAK OUTPUT POWER***RESULT: Passed***5.1.3 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100kHz BANDWIDTH***RESULT: Passed***5.1.4 SPURIOUS EMISSION***RESULT: Passed***5.1.5 20dB BANDWIDTH***RESULT: Passed***5.1.6 FREQUENCY SEPARATION***RESULT: Passed***5.1.7 NUMBER OF HOPPING FREQUENCY***RESULT: Passed***5.1.8 TIME OF OCCUPANCY***RESULT: Passed***5.1.9 CONDUCTED EMISSIONS***RESULT: Passed***5.1.10 RADIATED EMISSION***RESULT: Passed***6.1.1 ELECTROMAGNETIC FIELDS***RESULT: Pass*

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix 1: Test Result

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

1F East & 2-4F, Cybio Technology Building No.1, No.16 Kejibei 2nd Road, Nanshan District, Shenzhen, 518057, China

FCC Registration No.: 694916

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Conducted Emissions				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102428	2/15/2020
Artificial Mains Network	R&S	ENV216	102333	8/19/2019
Radiated Emissions				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI test receiver	R&S	ESR7	102022	1/24/2020
Horn Antenna	R&S	HF907	102706	9/3/2019
Preamplifier	FIT	SCU18F	180077	8/24/2019
Trilog-Broadband antenna	Schwarzbeck	VULB 9168	00945	12/9/2019
Switching and control interface	R&S	OSP 120	102038	N/A
Radio Spectrum				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Wireless Connectivity Tester	Rohde & Schwarz	CMW270	101375	8/30/2019
Signal Analyzer	Rohde & Schwarz	FSV 40	101441	8/30/2019
Vector Signal Generator	Rohde & Schwarz	SMBV100A	263301	8/30/2019
Signal Generator	Rohde & Schwarz	SMB100A	115186	8/30/2019
OSP	Rohde & Schwarz	OSP 150	101017	12/20/2019
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	Rohde & Schwarz	WMS32 (V10.40.10)	N/A	N/A
Power Meter	Rohde & Schwarz	NRP2	107105	12/20/2019
Wideband Power Sensor	Rohde & Schwarz	NRP-Z81	105350	12/20/2019
Spurious Emissions				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	Rohde & Schwarz	ESR 7	102021	9/3/2019
Signal Analyzer	Rohde & Schwarz	FSV 40	101439	8/30/2019
System Controller Interface	Rohde & Schwarz	SCI-100	S10010038	N/A
Filterbank	Rohde & Schwarz	Wlan	100759	8/30/2019
OSP	Rohde & Schwarz	OSP 120	102040	N/A
Pre-amplifier	Rohde & Schwarz	SCU08F1	08320031	9/29/2019
Amplifier	Rohde & Schwarz	SCU-18F	180070	8/30/2019

Produkte

Products

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Amplifier	Rohde & Schwarz	SCU40A	100475	9/3/2019
Trilog Broadband Antenna (30 MHz - 1 GHz)	Schwarzbeck	VULB9162	193	9/2/2019
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	9/2/2019
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	9/2/2019
Active Loop Antenna	Rohde & Schwarz	FMZB 1513	302	9/1/2019
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18313	9/2/2019
Test software	Rohde & Schwarz	EMC32 (V10.40.00)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The value of the measurement uncertainty of each parameter is listed as below:

Table 2: Measurement Uncertainty

Test Item	Uncertainty
RF Output Power	±0.99 dB
Power Spectral Density	±0.99 dB
Frequency Error	±3.3%
Occupied Channel Bandwidth	±2.08%
Conducted Spurious Emissions	±0.89 dB
Radiated Spurious Emissions	±3.68dB
Radiated Emissions	±4.52dB (30MHz~1GHz) ±4.37dB (1~6GHz)
Conducted Emissions	±3.3dB
Temperature	±2.5%
Humidity	±10%

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix 1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. test facility located at 1F East & 2-4F, Cybio Technology Building No.1, No.16 Kejibei 2nd Road, Nanshan District, Shenzhen, 518057, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is WIRELESS SOUND-PODS which supports Bluetooth function.
The Right Earbud and Left Earbud are electrical identical. When charging the Earbud the Bluetooth function will automatically turn off.
For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Rating of EUT

Kind of Equipment:	WIRELESS SOUND-PODS
Type Designation:	M-67722
FCC ID	2ATF5160478

Table 4: Technical Specification of Bluetooth (BDR & EDR)

Technical Specification	Value
Operating Frequency band	2402 – 2480 MHz
Bluetooth Version	5.0 (without BLE)
Channel Number	79 channels
Channel separation	1MHz
Operating Voltage	DC 3.7V, 50mAh via built-in lithium Battery Or Charged by Charging box or DC 5V via micro USB port
Battery	Internal lithium-ion battery (charging box): 3.7Vdc, 300mAh Internal lithium-ion battery (earbuds): 3.7Vdc, 50mAh
Modulation	GFSK, $\pi/4$ DQPSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	1.75dBi

Table 5: RF channel and frequency of Bluetooth (BDR & EDR mode)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00		

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth Transmitting mode (BDR & EDR)
 - 1. low channel
 - 2. middle channel
 - 3. high channel
- B. On, Bluetooth hopping mode
- C. Charging the Earbud Case
- D. Charging the Ear Buds
- E. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------|
| - Technical Description | - Circuit Diagram |
| - PCB Layout | - Instruction Manual |
| - Photo Document | - Rating Label |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2014 and ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested with following accessories:

Description	Manufacturer	Type	S/N
Portable Laptop	Lenovo	ThinkPad T480	N/A
Mobile Phone	Apple	iPhone 8	N/A

4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

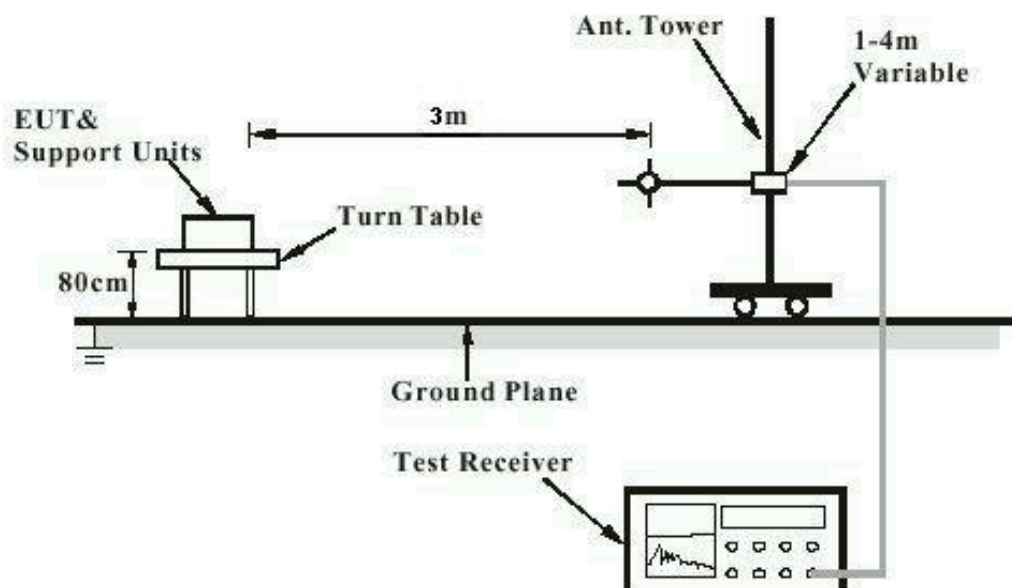


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

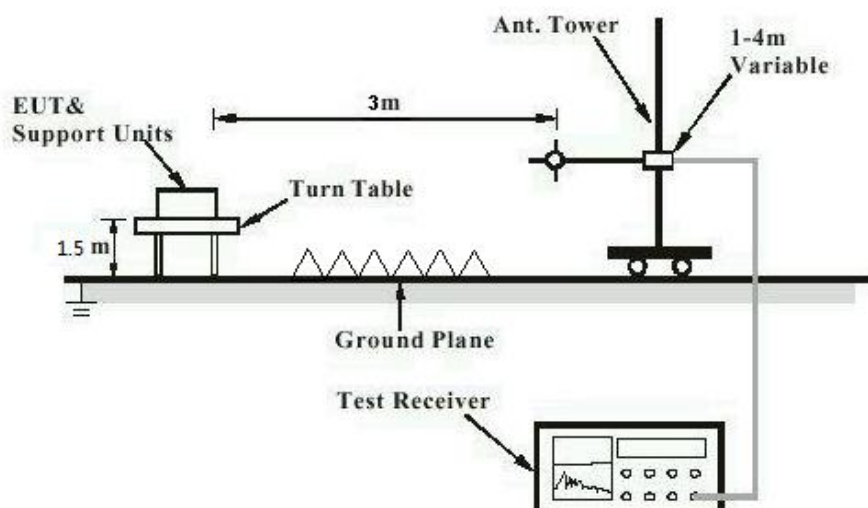


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

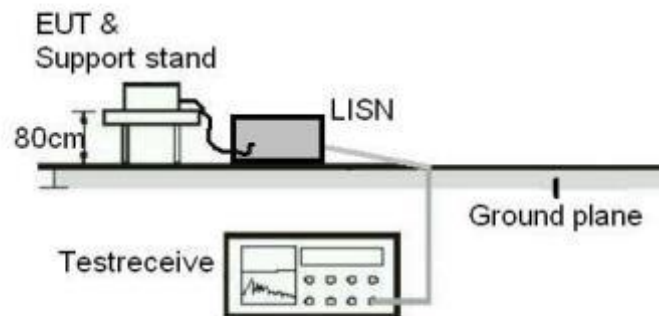
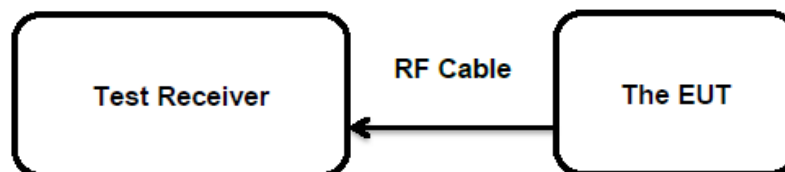


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 1.75dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT photo for details.

5.1.2 Peak Output Power

RESULT:
Passed

Test date : 2019-06-27
 Test standard : FCC Part 15.247(b)(1)
 Basic standard : ANSI C63.10: 2013
 Limit : FHSS < 1 Watts
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 25°C
 Relative humidity : 55%
 Atmospheric pressure : 101 kPa

Table 6: Test result of Peak Output Power

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BDR	2402	-4.51	0.00035	< 1
	2441	-4.71	0.00034	
	2480	-4.02	0.00040	
EDR	2402	-4.24	0.00038	< 1
	2441	-4.86	0.00033	
	2480	-4.98	0.00032	

Note: The cable loss is taken into account in results.

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5.1.3 Conducted spurious emissions measured in 100kHz Bandwidth

RESULT:**Passed**

Date of testing : 2019-07-04
Test standard : FCC part 15.247(d)

Basic standard : ANSI C63.10: 2013
Limit : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)

Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A, B
Ambient temperature : 25°C
Relative humidity : 55%
Atmospheric pressure : 101 kPa

All emissions are more than 20dB below fundamental, details refer to Appendix 1, and compliance is achieved as well.

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5.1.4 Spurious Emission

RESULT:**Passed**

Date of testing	:	2019-06-27
Test standard	:	FCC part 15.247(d)
		FCC Part 15.205
Basic standard	:	ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A, B
Ambient temperature	:	23°C
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

Remark:

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test setup photos.
Testing was carried out within frequency range 9 kHz to the tenth harmonics.

For details refer to Appendix 1.

5.1.5 20dB Bandwidth

RESULT:
Passed

Date of testing : 2019-06-27
 Test standard : FCC Part 15.247(a)(1)
 Basic standard : ANSI C63.10: 2013
 Kind of test site : Shielded room

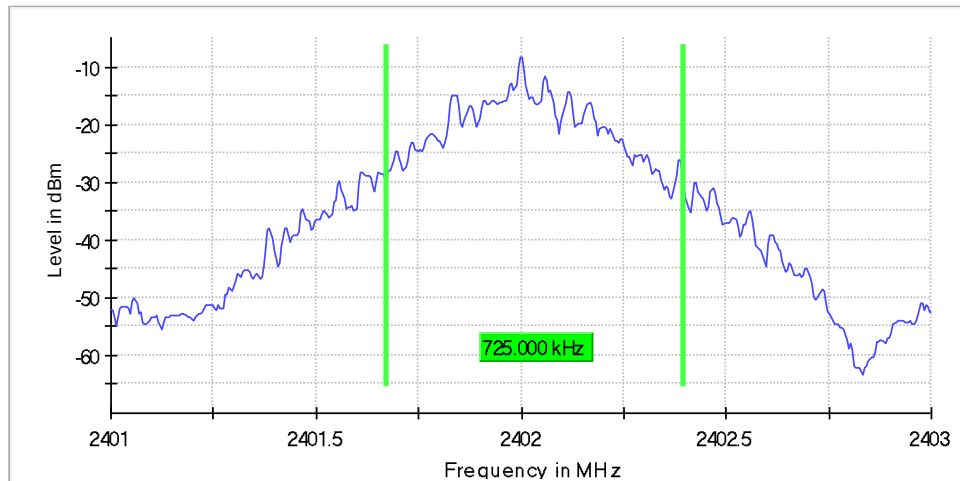
Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A
 Ambient temperature : 25°C
 Relative humidity : 55%
 Atmospheric pressure : 101 kPa

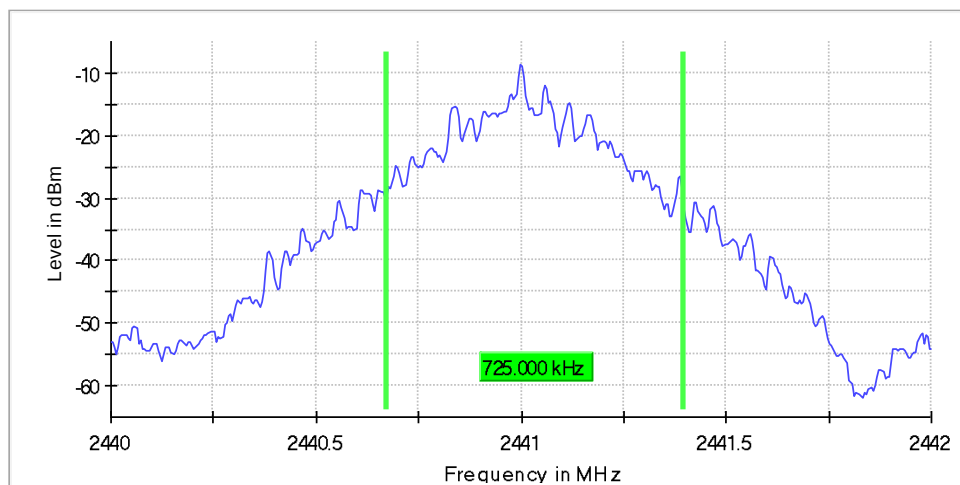
Table 7: Test result of 20dB Bandwidth

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)
BDR	2402	725	483	/
	2441	725	483	
	2480	795	530	
EDR	2402	1155	770	/
	2441	1155	770	
	2480	1155	770	

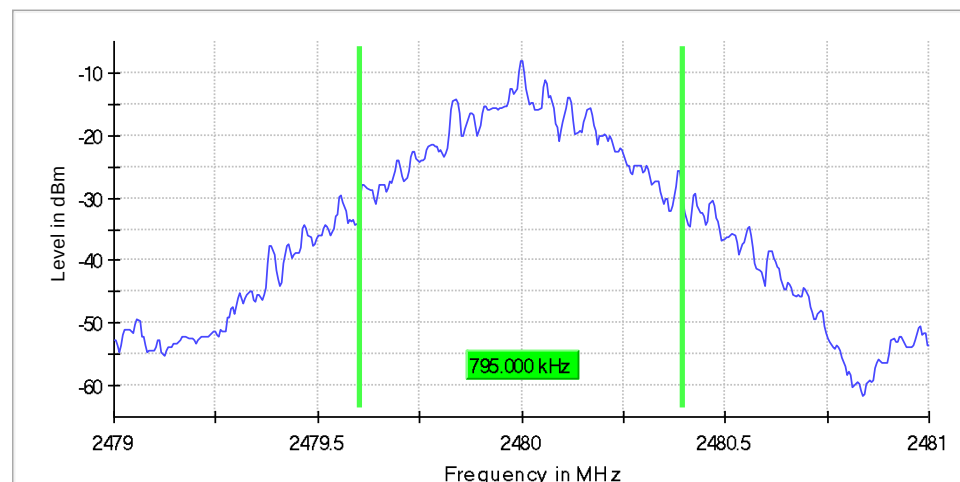
BDR 2402

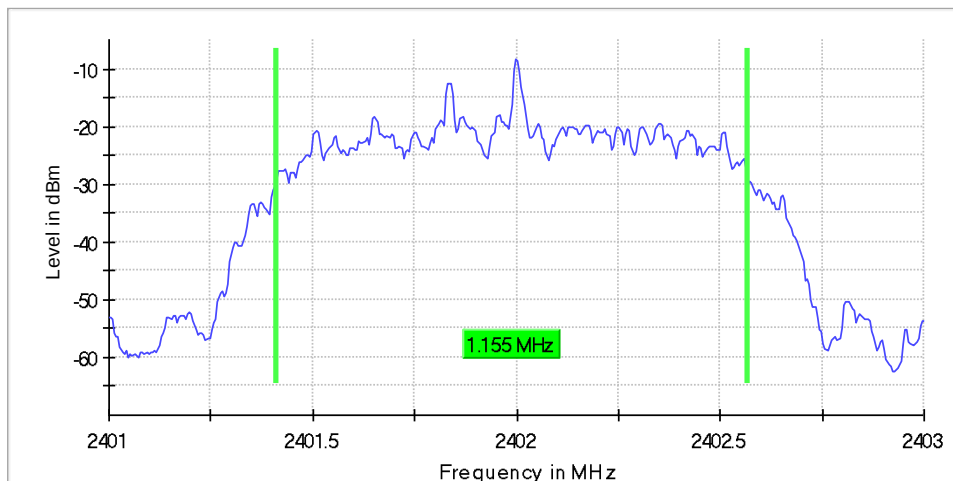
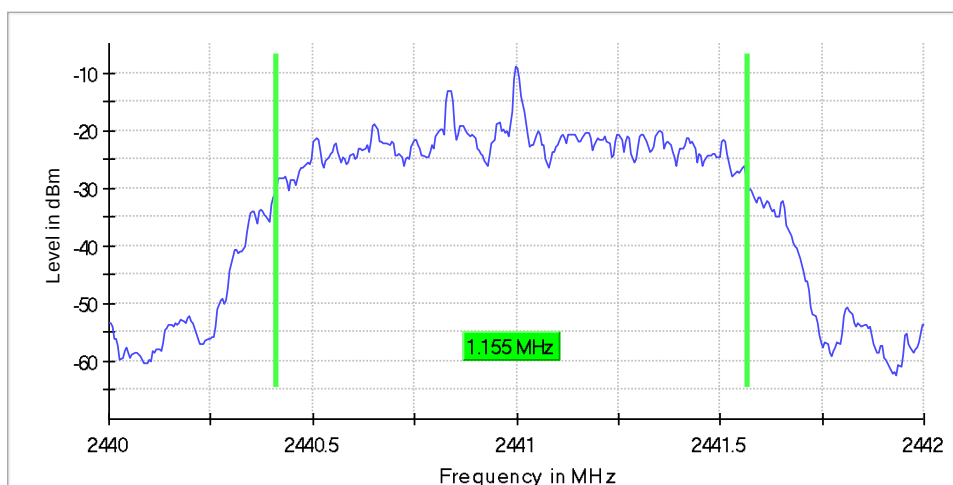
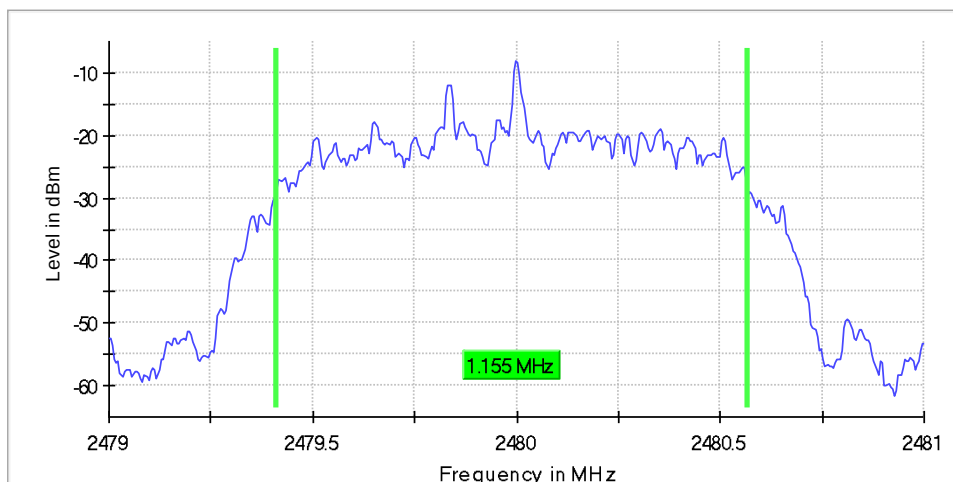


BDR 2441



BDR 2480



EDR 2402

EDR 2441

EDR 2480


5.1.6 Frequency Separation

RESULT:
Passed

Date of testing : 2019-06-27
 Test standard : FCC part 15.247(a)(1)
 Basic standard : ANSI C63.4: 2003
 Limit : $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater

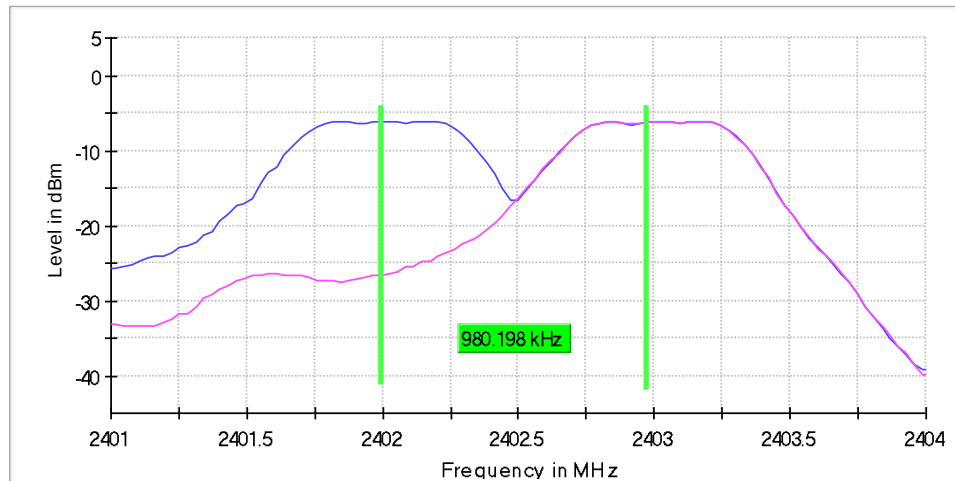
Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : B
 Ambient temperature : 25°C
 Relative humidity : 55%
 Atmospheric pressure : 101 kPa

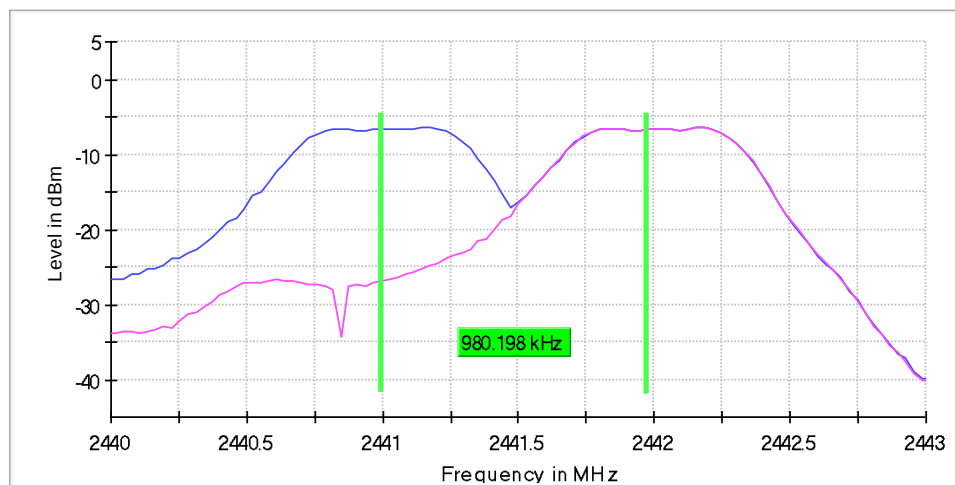
Table 8: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (KHz)	Limit (kHz)	Result
Low Channel	2402	980	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	980	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2480	980	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	Pass
Adjacency Channel	2479			

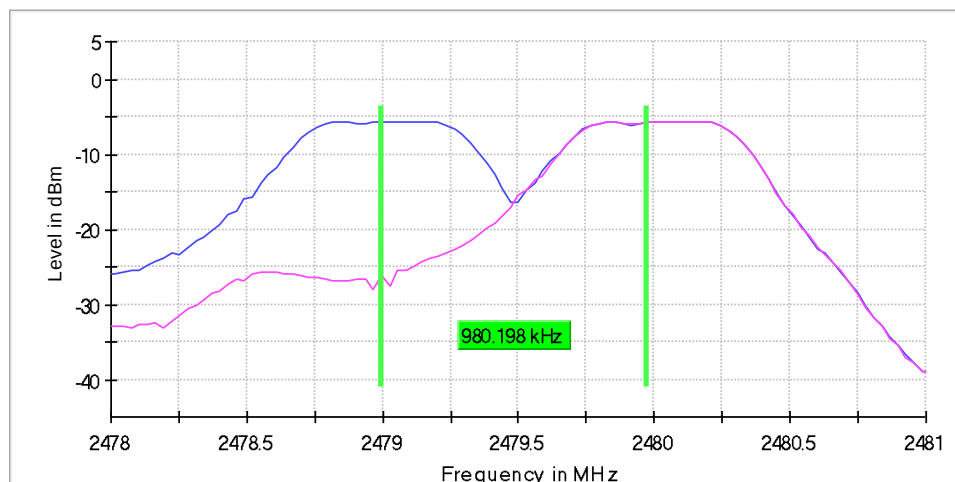
Low



Middle



High



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5.1.7 Number of hopping frequency

RESULT:**Passed**

Date of testing : 2019-06-27
Test standard : FCC part 15.247(a)(1)(iii)
Basic standard : ANSI C63.10: 2013
Limits : ≥ 15 non-overlapping channels
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : B
Ambient temperature : 25°C
Relative humidity : 55%
Atmospheric pressure : 101 kPa

Table 9: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
<u>2400</u> to <u>2483.5</u> MHz	79	≥ 15	Pass

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5.1.8 Time of Occupancy

RESULT:
Passed

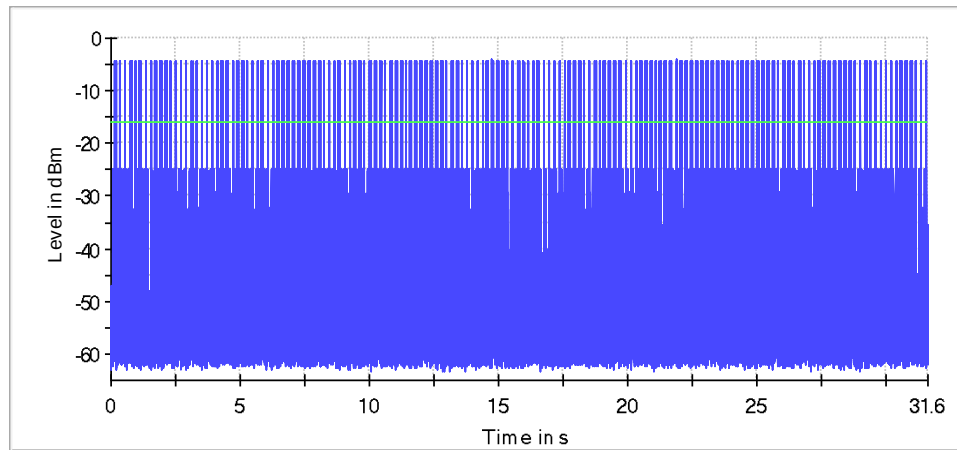
Date of testing : 2019-06-27
 Test standard : FCC part 15.247(a)(1)(iii)
 Basic standard : ANSI C63.10: 2013
 Limits : <0.4s
 Kind of test site : Shield room

Test setup

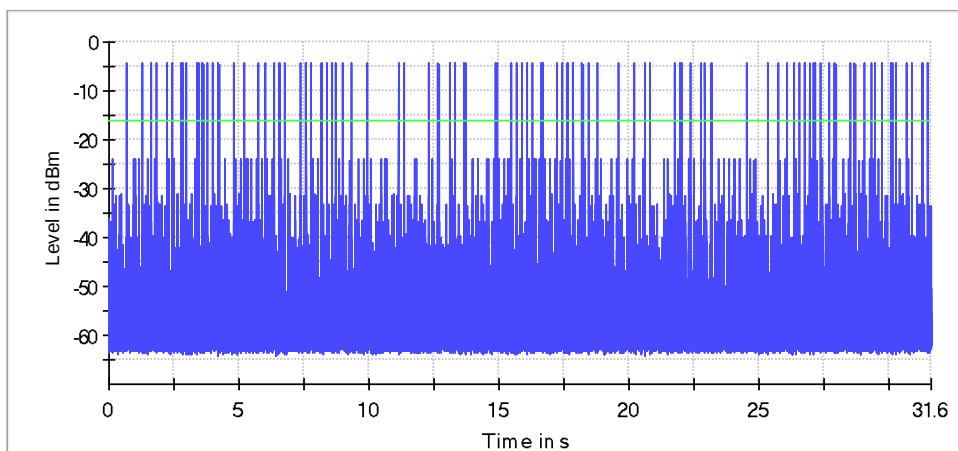
Test Channel : Middle
 Operation Mode : A
 Ambient temperature : 25°C
 Relative humidity : 55%
 Atmospheric pressure : 101 kPa

Table 10: Test result of Time of Occupancy

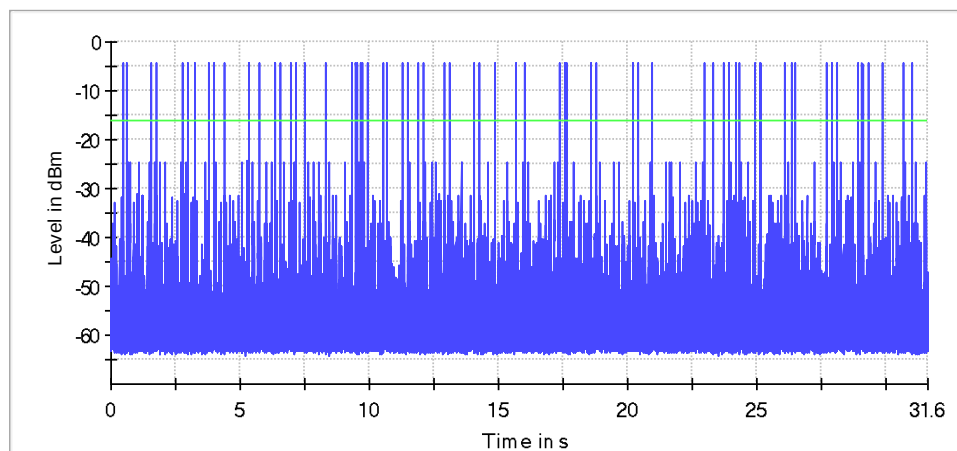
Test Mode	Channel	Data Packet	Measured Dwell time(s)	Limit (s)
BDR mode	2441	DH1	0.138	< 0.4s
		DH3	0.179	
		DH5	0.197	
EDR mode	2441	2DH1	0.136	
		2DH3	0.186	
		2DH5	0.180	

BDR DH1


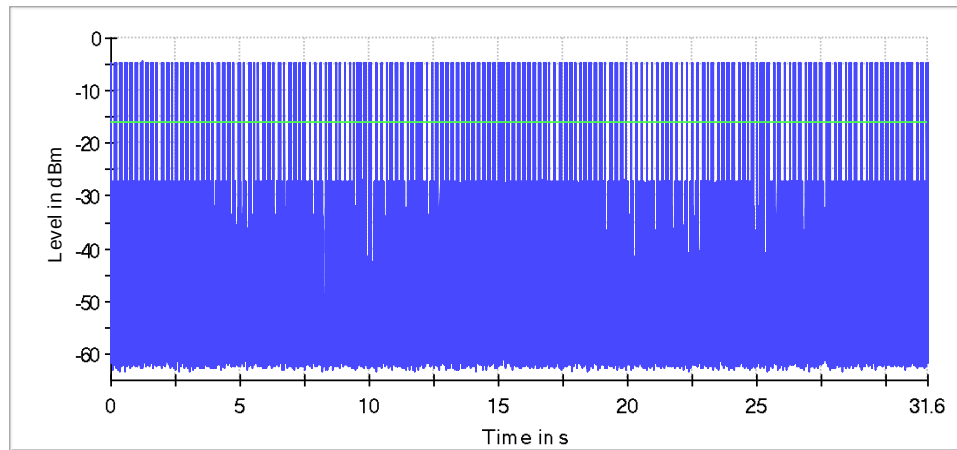
Trace Threshold

BDR DH3


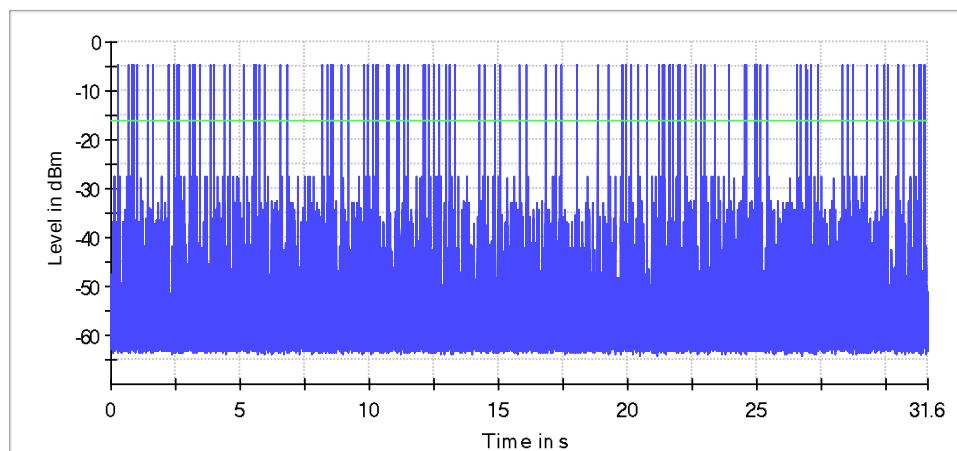
Trace Threshold

BDR DH5


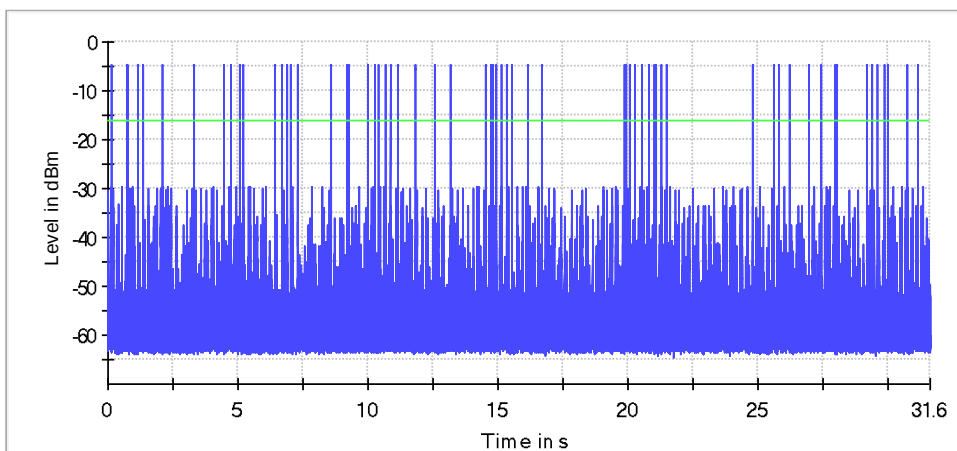
Trace Threshold

EDR 2DH1


— Trace — Threshold

EDR 2DH3


— Trace — Threshold

EDR 2DH5


— Trace — Threshold

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5.1.9 Conducted emissions

RESULT:**Passed**

Date of testing	:	2019-06-19
Test standard	:	FCC Part 15.107(a)
Basic standard	:	ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.107(a)
Kind of test site	:	Shield room

Test setup

Input Voltage	:	AC 120V, 60Hz
Operation Mode	:	C
Earthing	:	Not connected
Ambient temperature	:	26°C
Relative humidity	:	54%
Atmospheric pressure	:	101 kPa

For details refer to Appendix 1.

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5.1.10 Radiated Emission**RESULT:****Passed**

Date of testing	:	2019-06-19
Test standard	:	FCC Part 15.109(a) & FCC Part 15.209(a)
Basic standard	:	ANSI C63.4: 2014
Frequency range	:	30 - 6000MHz
Classification	:	Class B
Limit	:	FCC Part 15.109(a) & FCC Part 15.209(a)
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Input Voltage	:	AC 120V, 60Hz
Operation mode	:	B, C, D
Earthing	:	Not connected
Ambient temperature	:	25°C
Relative humidity	:	49%
Atmospheric pressure	:	101 kPa

Test data refer to Appendix 1.