

TEST REPORT

Applicant: Realme Chongqing Mobile Telecommunications

Corp., Ltd.

Address: No.178 Yulong Avenue, Yufengshan, Yubei District,

Chongqing, China

Equipment Type: Smart Watch

Model Name: RMW2108

Brand Name: realme

FCC ID: 2AUYFRMW2108

Test Standard: 47 CFR Part 15 Subpart C

(refer section 3.1)

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ISSUED BY:

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.	
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe West	
Address	Road, Nanshan District, ShenZhen, GuangDong Province, China	
Phone Number	+86 755 6685 0100	

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.	
A ddraga	Block B, 1/F, Baisha Science and Technology Park, Shahe West	
Address	Road, Nanshan District, ShenZhen, GuangDong Province, China	
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a	
	accredited testing laboratory. The designation number is CN1196.	
	All measurement facilities used to collect the measurement data are	
Description	located at Block B, 1/F, Baisha Science and Technology Park, Shahe	
	West Road, Nanshan District, ShenZhen, GuangDong Province,	
	China	



2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Realme Chongqing Mobile Telecommunications Corp., Ltd.	
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China	

2.2 Manufacturer Information

Manufacturer	Realme Chongqing Mobile Telecommunications Corp., Ltd.		
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China		

2.3 Factory Information

Factory	Shenzhen DO Intelligent Technology Co., Ltd		
	Floor 11, Building 3, Changyi Industrial Factory, No.1 Lirong Road,		
Address	Xinshi Community, Dalang Sub-district, Longhua District, Shenzhen		
	City, China		

2.4 General Description for Equipment under Test (EUT)

EUT Name	Smart Watch	
Model Name Under Test	RMW2108	
Series Model Name	N/A	
Description of Model	N/A	
name differentiation	TV/A	
Hardware Version	V1.0	
Software Version	V6	
Dimensions (Approx.)	N/A	
Weight (Approx.)	N/A	



2.5 Technical Information

Network and Wireless	Plustooth (PRIEDRIPLE)	ĺ
connectivity	Bluetooth (BR+EDR+BLE)	l

The requirement for the following technical information of the EUT was tested in this report:

Modulation Technology	DTS		
Modulation Type	GFSK		
	☐ Mobile		
Product Type	□ Portable		
	☐ Fix Location		
Transfer Rate	1 Mbps, 2 Mbps		
Frequency Range	The frequency range used is 2400 MHz to 2483.5 MHz.		
Number of Channel	40 (at intervals of 2 MHz)		
Tested Channel	0 (2402 MHz), 19 (2440 MHz), 39 (2480 MHz)		
Antenna Type	FPC Antenna		
Antonno Coin	-0.42 dBi (In test items related to antenna gain, the final results		
Antenna Gain	reflect this figure. This value is provided by the applicant.)		
Antenna Impedance	50Ω		
Antenna System	N/A		
(MIMO Smart Antenna)	IV/A		



2.6 Additional Instructions

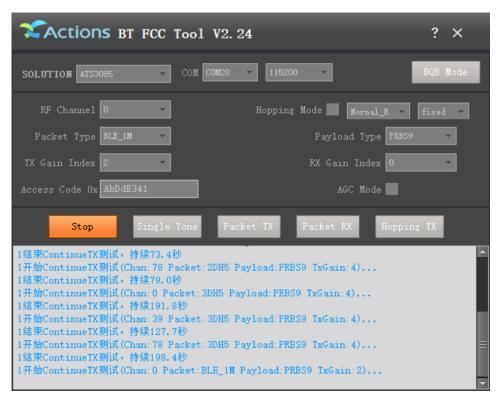
EUT Software Settings:

	\boxtimes	Special software is used.
Mode		The software provided by client to enable the EUT under
Mode		transmission condition continuously at specific channel
		frequencies individually.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power level setup in software				
Test software	BT FCC Tool V2.24	1		
Support Units	Description	Manufacturer	Model	
(Software installation media)	Notebook	Lenovo	X220	
Mode	Channel	Frequency (MHz)	Soft Set	
	CH0	2402		
GFSK (1 Mbps)	CH19	2440		
	CH39	2480	Power parameter Settings	
	CH0	2402	is 2	
GFSK (2 Mbps)	CH19	2440		
	CH39	2480		

Run Software:





3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title	
1	47 CFR Part 15, Subpart C	Miscellaneous Wireless Communications Services	
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices	
	KDB 558074 D01 15.247	Guidance for compliance measurements on digital transmission	
3	Meas Guidance v05r02	system, frequency hopping spread spectrum system, and hybrid	
		system devices operating under section 15.247 of the FCC rules	

3.2 Test Verdict

No.	Description	FCC Part No.	Channel	Test Result	Verdict
1	Antenna Requirement	15.203	N/A		Pass ^{Note1}
2	Output Power	15.247(b)	Low/Middle/High	ANNEX A.1	Pass
3	Occupied Bandwidth	15.247(a)	Low/Middle/High	ANNEX A.2	Pass
4	Conducted Spurious Emission	15.247(d)	Low/Middle/High	ANNEX A.3	Pass
5	Band Edge(Authorized- band band-edge)	15.247(d)	Low/ High	ANNEX A.4	Pass
6	Conducted Emission	15.207	Low/Middle/High	ANNEX A.5	Pass
7	Radiated Spurious Emission	15.209 15.247(d)	Low/Middle/High	ANNEX A.6	Pass
8	Band Edge(Restricted- band band-edge)	15.209 15.247(d)	Low/Middle/High	ANNEX A.7	Pass
9	Power spectral density (PSD)	15.247(e)	Low/Middle/High	ANNEX A.8	Pass
10	Receiver Spurious Emissions			N/A	N/A ^{Note2}

Note ¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note ²: Only radio communication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable.



4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	45% to 55%		
Atmospheric Pressure	100 kPa to 102 kPa		
Temperature	NT (Normal Temperature)	+22℃ to +25℃	
Working Voltage of the EUT	NV (Normal Voltage)	3.8 V	

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2022.01.04	2023.01.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2021.06.01	2022.05.31
Signaling Unit	ROHDE&SCHWARZ	CMW500	142028	2021.06.01	2022.05.31
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2021.09.13	2022.09.12
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2021.10.10	2022.10.09
LISN	SCHWARZBECK	NSLK 8127	8127-687	2021.06.08	2022.06.07
Test Antenna-	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Loop(9 kHz-30 MHz)	SCHWARZBECK	FINIZE 1319	FMZB 1519 1519-037		2024.04.15
Test Antenna-	SCHWARZBECK	VULB 9163	9163-624	2021.08.20	2024.08.19
Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VOLD 9100 9100-024		2021.08.20	2024.06.19
Test Antenna-	SCHWARZBECK	BBHA	9120D-1917	2019.07.02	2022.07.01
Horn(1-18 GHz)	SCHWARZBECK	9120D	91200-1917	2019.07.02	2022.07.01
Test Antenna-	A-INFO	LB-	J211060273	2021.07.02	2024.07.01
Horn (18-40 GHz)	A-1111 O	180400KF	3211000273	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2021.09.04	2024.09.09
Anechoic Chamber	EMC Electronic Co.,	20.10*11.60	NI/A	2021.08.15	2024 00 44
Allection Chambel	Ltd	*7.35m N/A		2021.00.15	2024.08.14
Shielded Enclosure	ChangNing	CN-130701	130703		

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V19.8.28.435	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

Tel: +86-755-66850100 Web: www.titcgroup.com



4.4 Measurement Uncertainty

The following measurement 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.

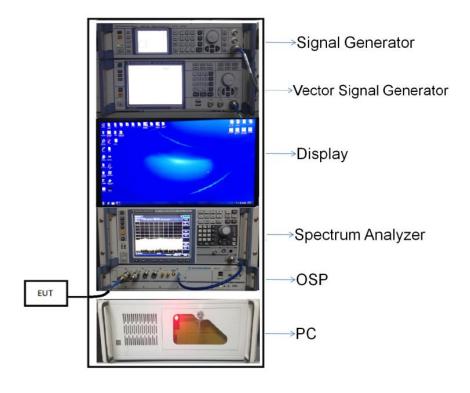
Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.82°C
Humidity	4.1%

4.5 Description of Test Setup

4.5.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

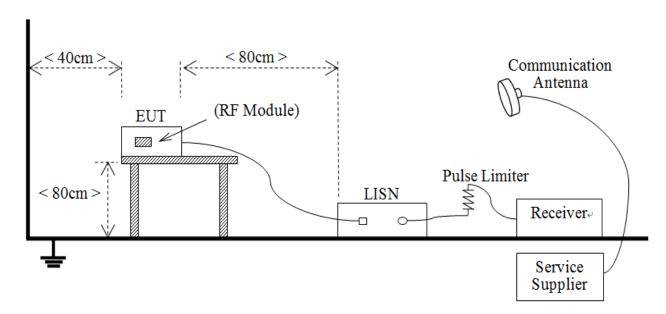
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT: Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



(Diagram 1)

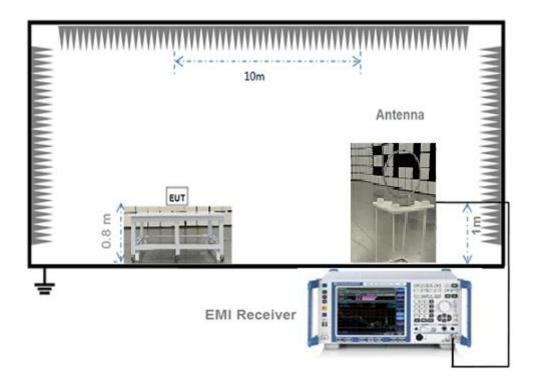


4.5.2For AC Power Supply Port Test



(Diagram 2)

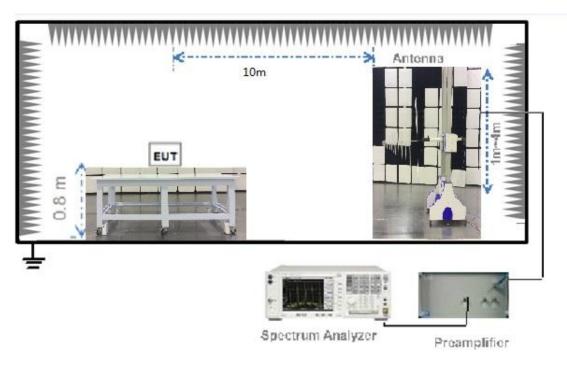
4.5.3For Radiated Test (Below 30 MHz)



(Diagram 3)

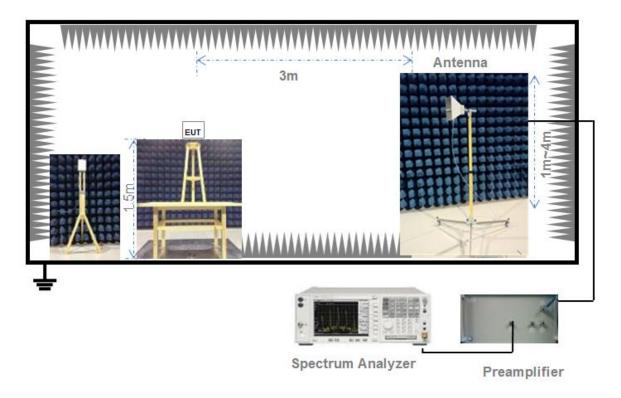


4.5.4For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)



4.6 Measurement Results Explanation Example

4.6.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

4.6.2 For radiated band edges and spurious emission test:

$$E = EIRP - 20log D + 104.8$$

where:

E = electric field strength in $dB\mu V/m$,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.



5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203 & 15.247(b)

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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 manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the	An embedded-in antenna design is used.
product.	

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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5.2 Output Power

5.2.1 Test Limit

FCC § 15.247(b)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements.

5.2.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

a) Maximum peak conducted output power

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

Set the RBW ≥ DTS bandwidth.

Set VBW ≥ 3 x RBW.

Set span ≥ 3 x RBW

Sweep time = auto couple.

Detector = peak.

Trace mode = max hold.

Allow trace to fully stabilize.

Use peak marker function to determine the peak amplitude level.

b) Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW ≥ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)



5.2.4Test Result

Please refer to ANNEX A.1.



5.3 Occupied Bandwidth

5.3.1 Limit

FCC §15.247(a)

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.

5.3.2Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3.4Test Result

Please refer to ANNEX A.2.



5.4 Conducted Spurious Emission

5.4.1 Limit

FCC §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.4.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

- a) If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).
- b) If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).
- c) In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required.

The following procedures shall be used to demonstrate compliance to these limits. Note that these procedures can be used in either an antenna-port conducted or radiated test set-up. Radiated tests must conform to the test site requirements and utilize maximization procedures defined herein.

Reference level measurement:

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW \geq 3 x RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.



Use the peak marker function to determine the maximum PSD level.

Emission level measurement:

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

Set the RBW = 100 kHz.

Set the VBW \geq 3 x RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

5.4.4Test Result

Please refer to ANNEX A.3.



5.5 Band Edge (Authorized-band band-edge)

5.5.1 Limit

FCC §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.5.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The following procedures may be used to determine the peak or average field strength or power of an unwanted emission that is within 2 MHz of the authorized band edge. If a peak detector is utilized, use the procedure described in 13.2.1. Use the procedure described in 13.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., duty cycle \geq 98%). Use the procedure described in 13.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than \pm 2 percent). Use the procedure described in 13.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2 percent).

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used.

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).

Set span to 2 MHz

RBW = 100 kHz.

 $VBW \ge 3 \times RBW$.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweep to continue until the trace stabilizes (required measurement time may increase for low duty cycle applications)

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency (femission) \pm 0.5 MHz. If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission \pm 0.5 MHz.



5.5.4Test Result

Please refer to ANNEX A.4.



5.6 Conducted Emission

5.6.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a $50\mu\text{H}/50\Omega$ line impedance stabilization network (LISN).

Frequency range	Conducted Limit (dBµV)		
(MHz)	Quai-peak	Average	
0.15 - 0.50	66 to 56	56 to 46	
0.50 - 5	56	46	
0.50 - 30	60	50	

5.6.2 Test Setup

See section 4.5.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.6.4Test Result

Please refer to ANNEX A.5.



5.7 Radiated Spurious Emission

5.7.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

- 1. Field Strength ($dB\mu V/m$) = 20*log[Field Strength ($\mu V/m$)].
- 2. In the emission tables above, the tighter limit applies at the band edges.
- For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
- 4. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.7.2 Test Setup

See section 4.5.3 to 4.5.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements



for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands:

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

E = EIRP - 20log D + 104.8

where:

E = electric field strength in $dB\mu V/m$,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure:

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 1.
- b) VBW \geq 3 x RBW.



- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

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

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction:

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x, of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW \geq 3 x RBW.
- e) Detector = RMS, if span/(# of points in sweep) ≤ (RBW/2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
- 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
- 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:

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- 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
- 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
- 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain:

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test:

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the



Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured RBW = 1 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

5.7.4Test Result

Please refer to ANNEX A.6.



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5.8 Band Edge (Restricted-band band-edge)

5.8.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

5.8.2 Test Setup

See section 4.5.3 to 4.5.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.8.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

For transmitters operating above 1 GHz repeat the measurement with an average detector.

5.8.4Test Result

Please refer to ANNEX A.7.



5.9 Power Spectral density (PSD)

5.9.1 Limit

FCC §15.247(e)

The same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of Section 5.4(4), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

5.9.2 Test Setup

See section 4.5.1 (Diagram 1) for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

Set the VBW ≥ 3 RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.9.4Test Result

Please refer to ANNEX A.8.



ANNEX A TEST RESULT

A.1 Output Power, Duty Cycle

Peak Power Test Data

	Measured Output Peak Power		Limit		
Channel	GFSK (BLE 1Mbps)		dD.m	ma\A/	Verdict
	dBm	mW	dBm	mW	
Low Channel	4.71	2.96			Pass
Middle Channel	4.46	2.79	30	1000	Pass
High Channel	4.39	2.75			Pass

	Measured Output Peak Power		Limit		
Channel	GFSK (BLE 2Mbps)		dBm	mW	Verdict
	dBm	mW	иын	IIIVV	
Low Channel	4.75	2.99	30	1000	Pass
Middle Channel	4.46	2.80			Pass
High Channel	4.41	2.76			Pass

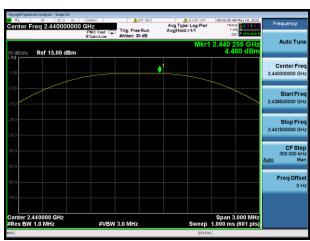


Test Plots

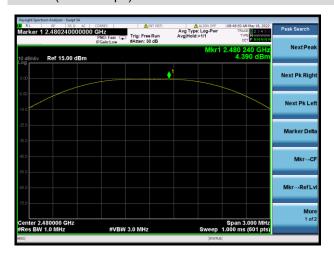
GFSK (BLE 1Mbps) LOW CHANNEL



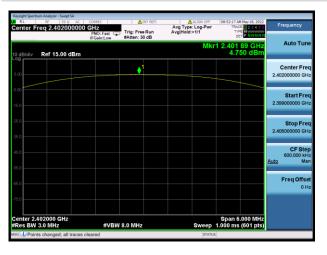
GFSK (BLE 1Mbps) MIDDLE CHANNEL



GFSK (BLE 1Mbps) HIGH CHANNEL



GFSK (BLE 2Mbps) LOW CHANNEL



GFSK (BLE 2Mbps) MIDDLE CHANNEL



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GFSK (BLE 2Mbps) HIGH CHANNEL



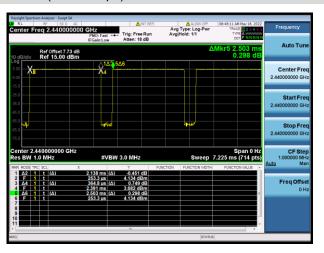


Duty Cycle Test Data

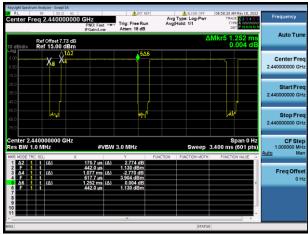
Band	On Time	On+Off Time	Duty Cycle
	(ms)	(ms)	(%)
GFSK (BLE 1Mbps)	2.138	2.503	85.42%
GFSK (BLE 2Mbps)	1.077	1.252	86.02%

Test Plots

GFSK (BLE 1Mbps)



GFSK (BLE 2Mbps)





A.2 Occupied Bandwidth

Test Data

Test Mode	GFSK (BLE 1Mbps)		
Channel	6 dB Bandwidth	99% Bandwidth	6 dB Bandwidth
	(kHz)	(kHz)	Limits (kHz)
Low Channel	680.000	1055.000	≥500
Middle Channel	680.000	1068.900	≥500
High Channel	675.000	1062.100	≥500

Test Mode	GFSK (BLE 2Mbps)			
Channel	6 dB Bandwidth	99% Bandwidth	6 dB Bandwidth	
	(kHz)	(kHz)	Limits (kHz)	
Low Channel	1170.000	2054.300	≥500	
Middle Channel	1170.000	2064.700	≥500	
High Channel	1170.000	2058.800	≥500	



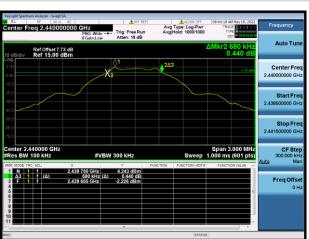
Test Plots

6 dB Bandwidth

GFSK (BLE 1Mbps) LOW CHANNEL



GFSK (BLE 1Mbps) MIDDLE CHANNEL



GFSK (BLE 1Mbps) HIGH CHANNEL



GFSK (BLE 2Mbps) LOW CHANNEL



GFSK (BLE 2Mbps) MIDDLE CHANNEL





GFSK (BLE 2Mbps) HIGH CHANNEL



99% Bandwidth

GFSK (BLE 1Mbps) LOW CHANNEL



GFSK (BLE 1Mbps) MIDDLE CHANNEL



GFSK (BLE 1Mbps) HIGH CHANNEL





GFSK (BLE 2Mbps) LOW CHANNEL

GFSK (BLE 2Mbps) MIDDLE CHANNEL



GFSK (BLE 2Mbps) HIGH CHANNEL





A.3 Conducted Spurious Emissions

Test Data

		GFSK (BLE 1Mbps)		
	Measured Max.			
Channel	Out of Band	Corrier Lovel	Calculated	Verdict
	Emission (dBm)	Carrier Level	20 dBc Limit	
Low Channel	-36.62	4.54	-15.46	Pass
Middle Channel	-36.86	4.24	-15.76	Pass
High Channel	-37.61	4.17	-15.83	Pass

	GFSK (BLE 2Mbps)									
	Measured Max.									
Channel	Out of Band	Carrier Level	Calculated V							
	Emission (dBm)	Carrier Level	20 dBc Limit							
Low Channel	-37.71	4.21	-15.79	Pass						
Middle Channel	-36.46	3.91	-16.09	Pass						
High Channel	-37.24	3.85	-16.15	Pass						

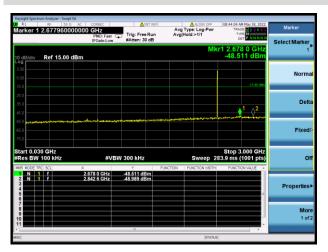


Test Plots

GFSK (BLE 1Mbps) LOW CHANNEL, CARRIER LEVEL



GFSK (BLE 1Mbps) LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



GFSK (BLE 1Mbps) LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

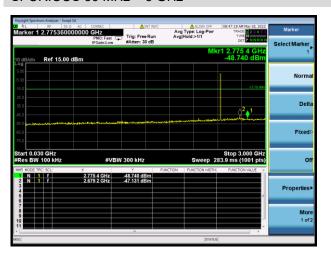




GFSK (BLE 1Mbps) MIDDLE CHANNEL, CARRIER LEVEL



GFSK (BLE 1Mbps) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



GFSK (BLE 1Mbps) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

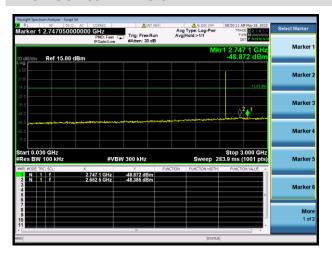




GFSK (BLE 1Mbps) HIGH CHANNEL, CARRIER LEVEL



GFSK (BLE 1Mbps) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



GFSK (BLE 1Mbps) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

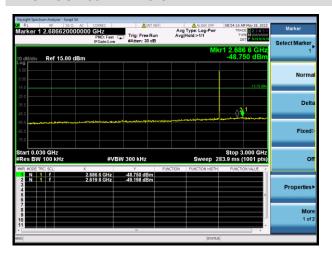




GFSK (BLE 2Mbps) LOW CHANNEL, CARRIER LEVEL



GFSK (BLE 2Mbps) LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

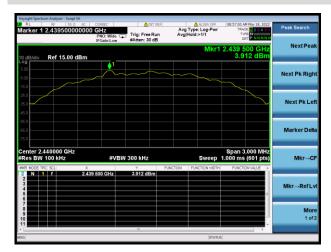


GFSK (BLE 2Mbps) LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

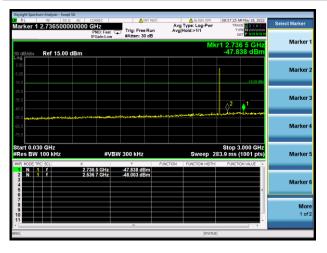




GFSK (BLE 2Mbps) MIDDLE CHANNEL, CARRIER LEVEL



GFSK (BLE 2Mbps) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



GFSK (BLE 2Mbps) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

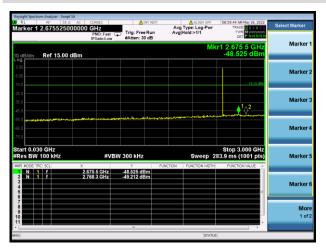




GFSK (BLE 2Mbps) HIGH CHANNEL, CARRIER LEVEL



GFSK (BLE 2Mbps) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



GFSK (BLE 2Mbps) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz





A.4 Band Edge (Authorized-band band-edge)

Note: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Test Data

			0-00/(5) = 000									
		GFSK (BLE 1Mbps)										
	Measured Max.	Limit (
Channel	Band Edge	Carrier Level	Calculated	Verdict								
	Emission (dBm)	Carrier Level	20 dBc Limit									
Low Channel	-50.19	4.54	-15.46	Pass								
High Channel	-57.93	4.17	-15.83	Pass								

	GFSK (BLE 2Mbps)									
	Measured Max.									
Channel	Band Edge	Carrier Lovel	Calculated	Verdict						
	Emission (dBm)	Carrier Level	20 dBc Limit							
Low Channel	-37.40	4.21	-15.79	Pass						
High Channel	-57.90	3.85	-16.15	Pass						



Test Plots

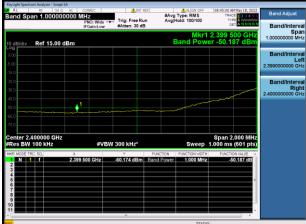
GFSK (BLE 1Mbps) LOW CHANNEL, CARRIER LEVEL



GFSK (BLE 1Mbps) LOW CHANNEL, REFERENCE LEVEL

GFSK (BLE 1Mbps) LOW CHANNEL, BAND EDGE



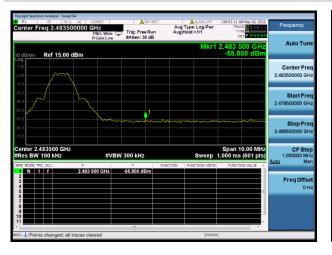




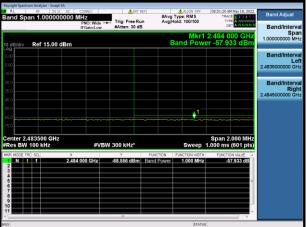
GFSK (BLE 1Mbps) HIGH CHANNEL, CARRIER LEVEL



GFSK (BLE 1Mbps) HIGH CHANNEL, REFERENCE LEVEL

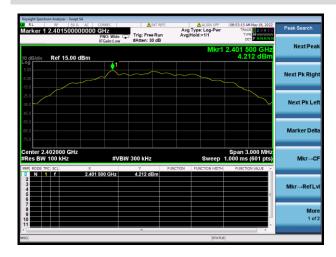


GFSK (BLE 1Mbps) HIGH CHANNEL, BAND EDGE





GFSK (BLE 2Mbps) LOW CHANNEL, CARRIER LEVEL



GFSK (BLE 2Mbps) LOW CHANNEL, REFERENCE LEVEL

GFSK (BLE 2Mbps) LOW CHANNEL, BAND EDGE







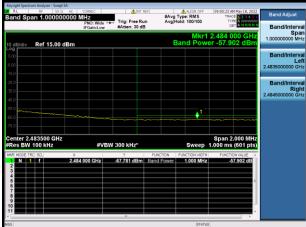
GFSK (BLE 2Mbps) HIGH CHANNEL, CARRIER LEVEL



GFSK (BLE 2Mbps) HIGH CHANNEL, REFERENCE LEVEL



GFSK (BLE 2Mbps) HIGH CHANNEL, BAND EDGE



Report No.: BL-SZ22250275-602



A.5 Conducted Emissions

Note ¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

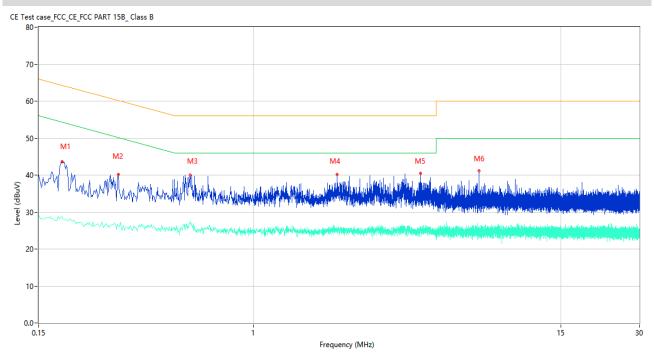
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note ³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)



Test Data and Plots

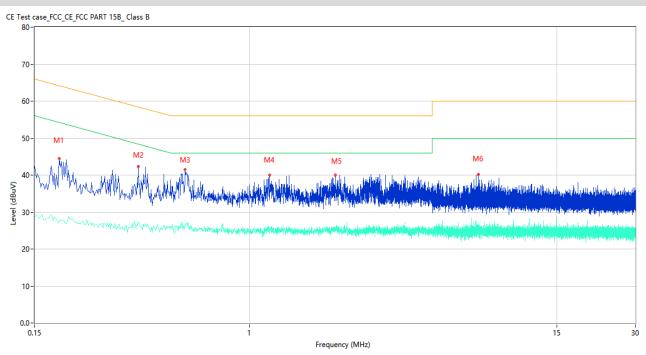
PHASE L



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Line	Verdict
	(MHz)	(dBuV)	(dB)	(dBuV)	(dB)			
1	0.184	43.71	10.97	64.30	-20.59	Peak	L	Pass
1**	0.184	28.83	10.97	54.30	-25.47	AV	L	Pass
2	0.302	40.19	10.88	60.19	-20.00	Peak	L	Pass
2**	0.302	26.50	10.88	50.19	-23.69	AV	L	Pass
3	0.570	40.03	10.89	56.00	-15.97	Peak	L	Pass
3**	0.570	26.88	10.89	46.00	-19.12	AV	L	Pass
4	2.090	40.10	10.75	56.00	-15.90	Peak	L	Pass
4**	2.090	24.78	10.75	46.00	-21.22	AV	L	Pass
5	4.366	40.43	10.71	56.00	-15.57	Peak	L	Pass
5**	4.366	25.94	10.71	46.00	-20.06	AV	L	Pass
6	7.300	41.18	10.67	60.00	-18.82	Peak	L	Pass
6**	7.300	25.61	10.67	50.00	-24.39	AV	L	Pass



PHASE N



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Line	Verdict
	(MHz)	(dBuV)	(dB)	(dBuV)	(dB)			
1	0.186	44.41	10.97	64.21	-19.80	Peak	N	Pass
1**	0.186	27.84	10.97	54.21	-26.37	AV	N	Pass
2	0.374	42.34	10.90	58.41	-16.07	Peak	N	Pass
2**	0.374	27.51	10.90	48.41	-20.90	AV	N	Pass
3	0.566	41.52	10.89	56.00	-14.48	Peak	N	Pass
3**	0.566	26.75	10.89	46.00	-19.25	AV	N	Pass
4	1.192	39.93	10.71	56.00	-16.07	Peak	N	Pass
4**	1.192	25.62	10.71	46.00	-20.38	AV	N	Pass
5	2.122	40.04	10.74	56.00	-15.96	Peak	N	Pass
5**	2.122	25.59	10.74	46.00	-20.41	AV	N	Pass
6	7.502	40.19	10.67	60.00	-19.81	Peak	N	Pass
6**	7.502	25.39	10.67	50.00	-24.61	AV	N	Pass



A.6 Radiated Spurious Emission

Note ¹: The symbol of "--" in the table which means not application.

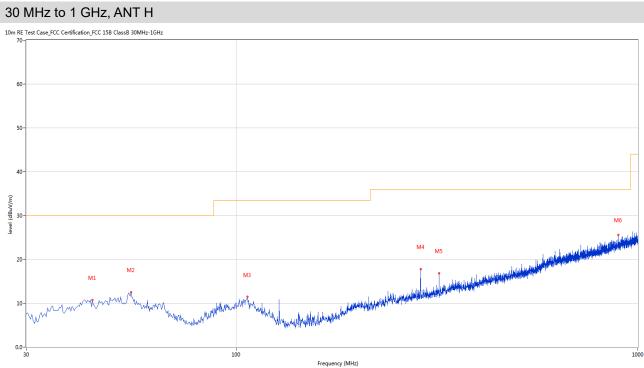
Note ²: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note ⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and BLE 2M-Low channel mode is the worst.

Note ⁵: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

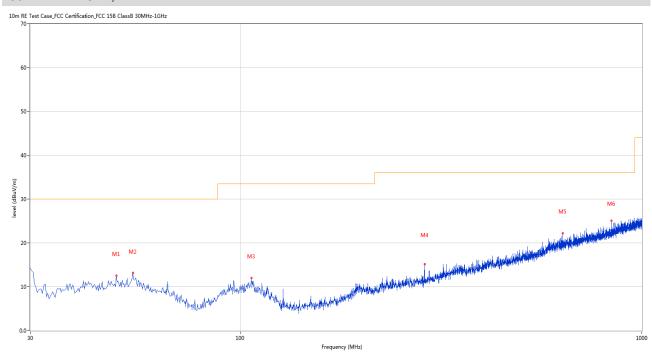
Test Data and Plots



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	43.819	10.77	-26.36	30.0	-19.23	Peak	287.00	200	Horizontal	Pass
2	54.729	12.54	-26.46	30.0	-17.46	Peak	360.00	100	Horizontal	Pass
3	106.611	11.44	-27.91	33.5	-22.06	Peak	95.00	200	Horizontal	Pass
4	287.956	17.79	-25.38	36.0	-18.21	Peak	0.00	200	Horizontal	Pass
5	319.958	16.85	-24.63	36.0	-19.15	Peak	320.00	100	Horizontal	Pass
6	894.539	25.58	-12.69	36.0	-10.42	Peak	0.00	200	Horizontal	Pass



30 MHz to 1 GHz, ANT V



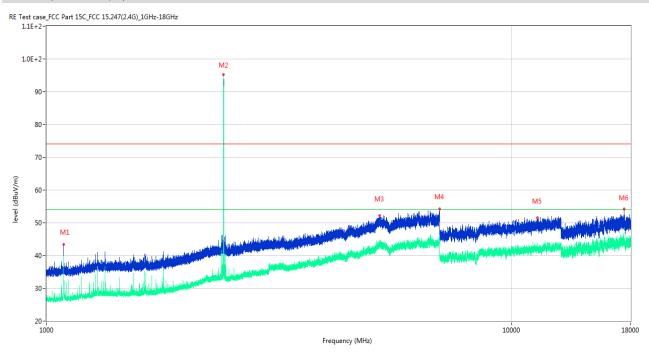
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	49.153	12.49	-26.20	30.0	-17.51	Peak	130.00	200	Vertical	Pass
2	54.001	13.14	-26.35	30.0	-16.86	Peak	220.00	100	Vertical	Pass
3	106.611	11.98	-27.91	33.5	-21.52	Peak	201.00	200	Vertical	Pass
4	287.956	15.19	-25.38	36.0	-20.81	Peak	139.00	100	Vertical	Pass
5	635.614	22.19	-17.39	36.0	-13.81	Peak	0.00	200	Vertical	Pass
6	839.990	25.05	-13.88	36.0	-10.95	Peak	109.00	100	Vertical	Pass



Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious from 18GHz-25GHz is noise only, do not show on the report.

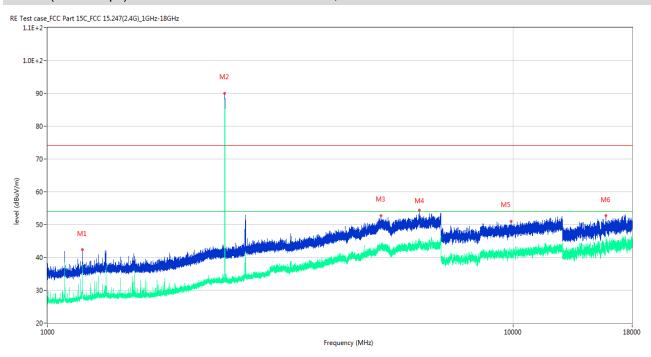
GFSK (BLE 1Mbps) LOW CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1088.600	43.31	-18.48	74.0	-30.69	Peak	118.00	150	Horizontal	Pass
1**	1088.600	38.43	-18.48	54.0	-15.57	AV	118.00	150	Horizontal	Pass
2	2402.300	95.20	-12.27	74.0	21.20	Peak	316.00	150	Horizontal	N/A
2**	2402.300	93.89	-12.27	54.0	39.89	AV	316.00	150	Horizontal	N/A
3	5203.400	52.20	-2.55	74.0	-21.80	Peak	88.00	150	Horizontal	Pass
3**	5203.400	42.87	-2.55	54.0	-11.13	AV	88.00	150	Horizontal	Pass
4	7000.000	54.26	0.23	74.0	-19.74	Peak	50.00	150	Horizontal	Pass
4**	7000.000	45.96	0.23	54.0	-8.04	AV	50.00	150	Horizontal	Pass
5	11340.100	51.46	0.26	74.0	-22.54	Peak	209.00	150	Horizontal	Pass
5**	11340.100	44.03	0.26	54.0	-9.97	AV	209.00	150	Horizontal	Pass
6	17419.088	54.28	3.74	74.0	-19.72	Peak	223.00	150	Horizontal	Pass
6**	17419.088	46.07	3.74	54.0	-7.93	AV	223.00	150	Horizontal	Pass



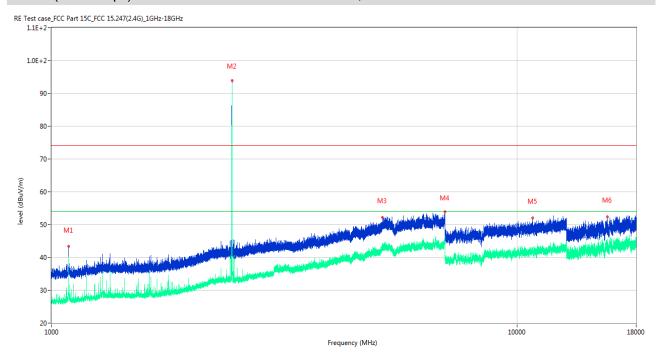
GFSK (BLE 1Mbps) LOW CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1187.700	42.38	-17.88	74.0	-31.62	Peak	102.00	150	Vertical	Pass
1**	1187.700	37.73	-17.88	54.0	-16.27	AV	102.00	150	Vertical	Pass
2	2402.000	89.92	-12.26	74.0	15.92	Peak	132.00	150	Vertical	N/A
2**	2402.000	88.16	-12.26	54.0	34.16	AV	132.00	150	Vertical	N/A
3	5200.200	52.77	-2.61	74.0	-21.23	Peak	94.00	150	Vertical	Pass
3**	5200.200	42.76	-2.61	54.0	-11.24	AV	94.00	150	Vertical	Pass
4	6276.000	54.45	-0.25	74.0	-19.55	Peak	326.00	150	Vertical	Pass
4**	6276.000	44.60	-0.25	54.0	-9.40	AV	326.00	150	Vertical	Pass
5	9887.938	50.97	-0.99	74.0	-23.03	Peak	294.00	150	Vertical	Pass
5**	9887.938	40.46	-0.99	54.0	-13.54	AV	294.00	150	Vertical	Pass
6	15813.638	52.74	2.09	74.0	-21.26	Peak	60.00	150	Vertical	Pass
6**	15813.638	44.72	2.09	54.0	-9.28	AV	60.00	150	Vertical	Pass



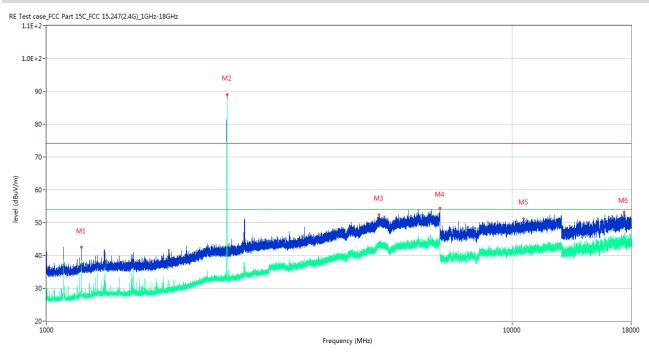
GFSK (BLE 1Mbps) MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1089.000	43.42	-18.48	74.0	-30.58	Peak	112.00	150	Horizontal	Pass
1**	1089.000	39.65	-18.48	54.0	-14.35	AV	112.00	150	Horizontal	Pass
2	2439.700	93.85	-12.64	74.0	19.85	Peak	315.00	150	Horizontal	N/A
2**	2439.700	91.26	-12.64	54.0	37.26	AV	315.00	150	Horizontal	N/A
3	5132.600	52.17	-2.26	74.0	-21.83	Peak	140.00	150	Horizontal	Pass
3**	5132.600	42.56	-2.26	54.0	-11.44	AV	140.00	150	Horizontal	Pass
4	6999.800	53.89	0.25	74.0	-20.11	Peak	130.00	150	Horizontal	Pass
4**	6999.800	45.06	0.25	54.0	-8.94	AV	130.00	150	Horizontal	Pass
5	10789.250	52.06	-0.39	74.0	-21.94	Peak	251.00	150	Horizontal	Pass
5**	10789.250	41.79	-0.39	54.0	-12.21	AV	251.00	150	Horizontal	Pass
6	15622.275	52.36	1.67	74.0	-21.64	Peak	90.00	150	Horizontal	Pass
6**	15622.275	43.09	1.67	54.0	-10.91	AV	90.00	150	Horizontal	Pass



GFSK (BLE 1Mbps) MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1188.200	42.49	-17.85	74.0	-31.51	Peak	105.00	150	Vertical	Pass
1**	1188.200	36.83	-17.85	54.0	-17.17	AV	105.00	150	Vertical	Pass
2	2439.700	89.03	-12.64	74.0	15.03	Peak	135.00	150	Vertical	N/A
2**	2439.700	85.77	-12.64	54.0	31.77	AV	135.00	150	Vertical	N/A
3	5179.200	52.32	-2.68	74.0	-21.68	Peak	310.00	150	Vertical	Pass
3**	5179.200	42.95	-2.68	54.0	-11.05	AV	310.00	150	Vertical	Pass
4	6999.400	54.44	0.24	74.0	-19.56	Peak	153.00	150	Vertical	Pass
4**	6999.400	45.10	0.24	54.0	-8.90	AV	153.00	150	Vertical	Pass
5	10583.975	51.19	-1.38	74.0	-22.81	Peak	164.00	150	Vertical	Pass
5**	10583.975	41.32	-1.38	54.0	-12.68	AV	164.00	150	Vertical	Pass
6	17379.449	53.27	2.64	74.0	-20.73	Peak	280.00	150	Vertical	Pass
6**	17379.449	45.18	2.64	54.0	-8.82	AV	280.00	150	Vertical	Pass



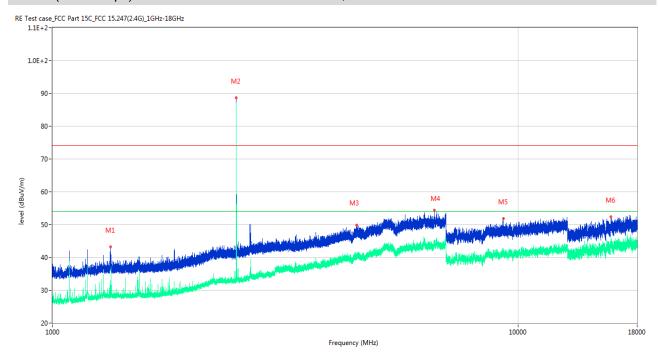
GFSK (BLE 1Mbps) HIGH CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1088.700	43.25	-18.48	74.0	-30.75	Peak	115.00	150	Horizontal	Pass
1**	1088.700	39.09	-18.48	54.0	-14.91	AV	115.00	150	Horizontal	Pass
2	2479.700	94.87	-12.43	74.0	20.87	Peak	188.00	150	Horizontal	N/A
2**	2479.700	92.01	-12.43	54.0	38.01	AV	188.00	150	Horizontal	N/A
3	4895.600	50.74	-3.01	74.0	-23.26	Peak	360.00	150	Horizontal	Pass
3**	4895.600	41.39	-3.01	54.0	-12.61	AV	360.00	150	Horizontal	Pass
4	6990.800	53.96	0.17	74.0	-20.04	Peak	107.00	150	Horizontal	Pass
4**	6990.800	45.28	0.17	54.0	-8.72	AV	107.00	150	Horizontal	Pass
5	11312.500	52.55	0.41	74.0	-21.45	Peak	176.00	150	Horizontal	Pass
5**	11312.500	43.43	0.41	54.0	-10.57	AV	176.00	150	Horizontal	Pass
6	16432.613	53.28	1.11	74.0	-20.72	Peak	116.00	150	Horizontal	Pass
6**	16432.613	43.65	1.11	54.0	-10.35	AV	116.00	150	Horizontal	Pass



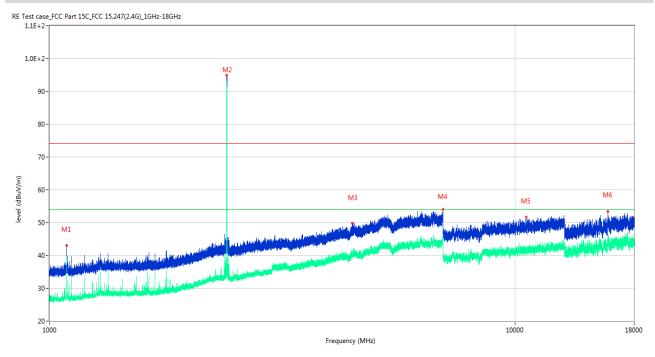
GFSK (BLE 1Mbps) HIGH CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1331.800	43.18	-17.42	74.0	-30.82	Peak	288.00	150	Vertical	Pass
1**	1331.800	29.32	-17.42	54.0	-24.68	AV	288.00	150	Vertical	Pass
2	2479.700	88.58	-12.43	74.0	14.58	Peak	130.00	150	Vertical	N/A
2**	2479.700	84.04	-12.43	54.0	30.04	AV	130.00	150	Vertical	N/A
3	4499.600	49.87	-4.45	74.0	-24.13	Peak	234.00	150	Vertical	Pass
3**	4499.600	39.92	-4.45	54.0	-14.08	AV	234.00	150	Vertical	Pass
4	6600.000	54.33	-0.47	74.0	-19.67	Peak	190.00	150	Vertical	Pass
4**	6600.000	44.96	-0.47	54.0	-9.04	AV	190.00	150	Vertical	Pass
5	9294.250	51.88	-1.25	74.0	-22.12	Peak	0.00	150	Vertical	Pass
5**	9294.250	41.41	-1.25	54.0	-12.59	AV	0.00	150	Vertical	Pass
6	15805.500	52.39	2.26	74.0	-21.61	Peak	201.00	150	Vertical	Pass
6**	15805.500	44.08	2.26	54.0	-9.92	AV	201.00	150	Vertical	Pass



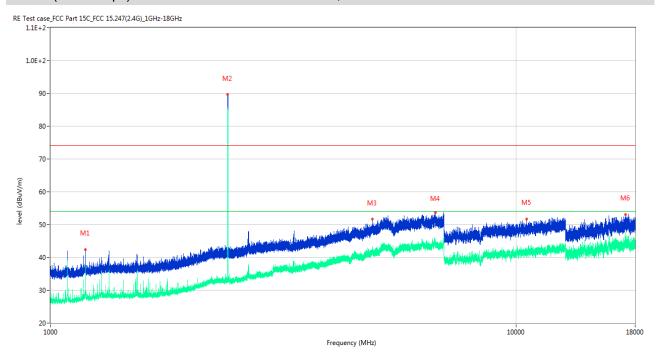
GFSK (BLE 2Mbps) LOW CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1088.700	42.99	-18.48	74.0	-31.01	Peak	118.00	150	Horizontal	Pass
1**	1088.700	38.81	-18.48	54.0	-15.19	AV	118.00	150	Horizontal	Pass
2	2402.500	94.87	-12.27	74.0	20.87	Peak	316.00	150	Horizontal	N/A
2**	2402.500	92.53	-12.27	54.0	38.53	AV	316.00	150	Horizontal	N/A
3	4464.800	49.78	-3.78	74.0	-24.22	Peak	234.00	150	Horizontal	Pass
3**	4464.800	39.80	-3.78	54.0	-14.20	AV	234.00	150	Horizontal	Pass
4	6993.400	54.01	0.31	74.0	-19.99	Peak	86.00	150	Horizontal	Pass
4**	6993.400	44.94	0.31	54.0	-9.06	AV	86.00	150	Horizontal	Pass
5	10543.725	51.68	-0.63	74.0	-22.32	Peak	313.00	150	Horizontal	Pass
5**	10543.725	41.57	-0.63	54.0	-12.43	AV	313.00	150	Horizontal	Pass
6	15798.938	53.36	2.30	74.0	-20.64	Peak	320.00	150	Horizontal	Pass
6**	15798.938	44.22	2.30	54.0	-9.78	AV	320.00	150	Horizontal	Pass



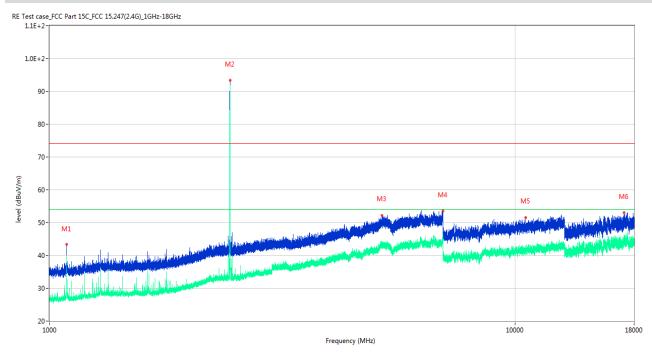
GFSK (BLE 2Mbps) LOW CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1187.600	42.43	-17.89	74.0	-31.57	Peak	100.00	150	Vertical	Pass
1**	1187.600	37.48	-17.89	54.0	-16.52	AV	100.00	150	Vertical	Pass
2	2401.500	89.68	-12.26	74.0	15.68	Peak	129.00	150	Vertical	N/A
2**	2401.500	83.68	-12.26	54.0	29.68	AV	129.00	150	Vertical	N/A
3	4908.200	51.71	-2.47	74.0	-22.29	Peak	359.00	150	Vertical	Pass
3**	4908.200	42.34	-2.47	54.0	-11.66	AV	359.00	150	Vertical	Pass
4	6709.400	53.66	-1.12	74.0	-20.34	Peak	128.00	150	Vertical	Pass
4**	6709.400	43.16	-1.12	54.0	-10.84	AV	128.00	150	Vertical	Pass
5	10526.188	51.76	-0.72	74.0	-22.24	Peak	331.00	150	Vertical	Pass
5**	10526.188	41.09	-0.72	54.0	-12.91	AV	331.00	150	Vertical	Pass
6	17169.974	53.07	2.39	74.0	-20.93	Peak	180.00	150	Vertical	Pass
6**	17169.974	45.45	2.39	54.0	-8.55	AV	180.00	150	Vertical	Pass



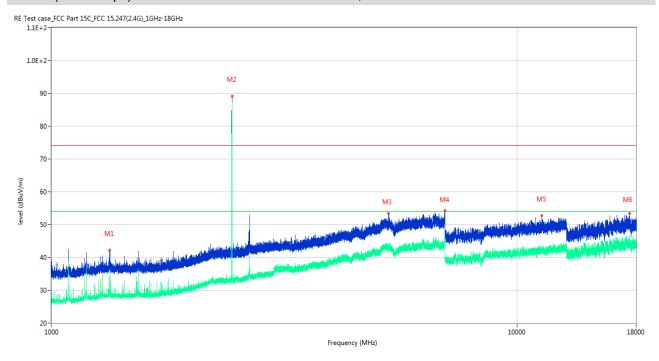
GFSK (BLE 2Mbps) MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1088.800	43.40	-18.48	74.0	-30.60	Peak	112.00	150	Horizontal	Pass
1**	1088.800	39.03	-18.48	54.0	-14.97	AV	112.00	150	Horizontal	Pass
2	2439.400	93.34	-12.64	74.0	19.34	Peak	318.00	150	Horizontal	N/A
2**	2439.400	88.14	-12.64	54.0	34.14	AV	318.00	150	Horizontal	N/A
3	5167.400	52.24	-2.77	74.0	-21.76	Peak	175.00	150	Horizontal	Pass
3**	5167.400	42.83	-2.77	54.0	-11.17	AV	175.00	150	Horizontal	Pass
4	7000.000	53.55	0.23	74.0	-20.45	Peak	267.00	150	Horizontal	Pass
4**	7000.000	45.17	0.23	54.0	-8.83	AV	267.00	150	Horizontal	Pass
5	10537.975	51.51	-0.66	74.0	-22.49	Peak	228.00	150	Horizontal	Pass
5**	10537.975	42.59	-0.66	54.0	-11.41	AV	228.00	150	Horizontal	Pass
6	17124.824	52.97	2.24	74.0	-21.03	Peak	353.00	150	Horizontal	Pass
6**	17124.824	44.14	2.24	54.0	-9.86	AV	353.00	150	Horizontal	Pass



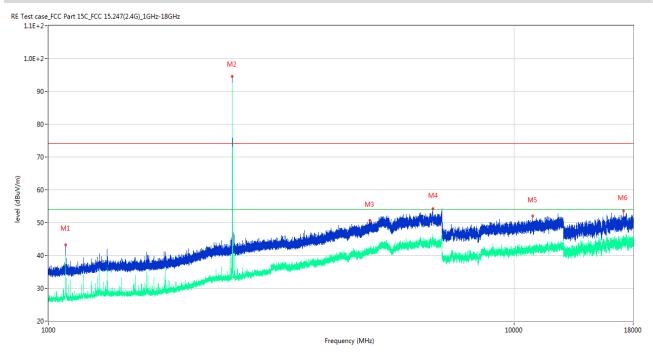
GFSK (BLE 2Mbps) MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1331.400	42.26	-17.41	74.0	-31.74	Peak	86.00	150	Vertical	Pass
1**	1331.400	28.79	-17.41	54.0	-25.21	AV	86.00	150	Vertical	Pass
2	2439.600	89.10	-12.64	74.0	15.10	Peak	134.00	150	Vertical	N/A
2**	2439.600	87.32	-12.64	54.0	33.32	AV	134.00	150	Vertical	N/A
3	5288.800	53.36	-3.35	74.0	-20.64	Peak	238.00	150	Vertical	Pass
3**	5288.800	42.23	-3.35	54.0	-11.77	AV	238.00	150	Vertical	Pass
4	6998.200	54.17	0.23	74.0	-19.83	Peak	360.00	150	Vertical	Pass
4**	6998.200	45.83	0.23	54.0	-8.17	AV	360.00	150	Vertical	Pass
5	11285.763	52.76	0.01	74.0	-21.24	Peak	216.00	150	Vertical	Pass
5**	11285.763	41.62	0.01	54.0	-12.38	AV	216.00	150	Vertical	Pass
6	17405.962	53.46	3.34	74.0	-20.54	Peak	43.00	150	Vertical	Pass
6**	17405.962	45.30	3.34	54.0	-8.70	AV	43.00	150	Vertical	Pass



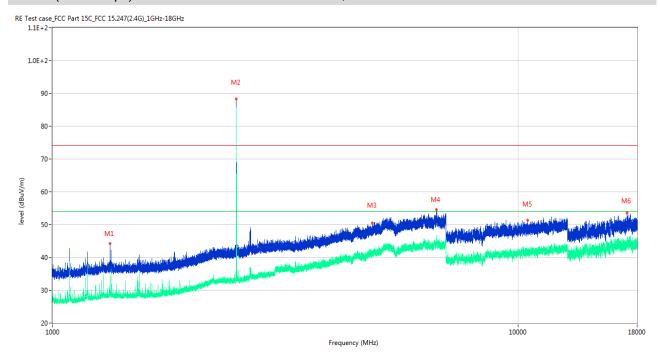
GFSK (BLE 2Mbps) HIGH CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1088.500	43.16	-18.48	74.0	-30.84	Peak	113.00	150	Horizontal	Pass
1**	1088.500	37.85	-18.48	54.0	-16.15	AV	113.00	150	Horizontal	Pass
2	2479.500	94.58	-12.44	74.0	20.58	Peak	190.00	150	Horizontal	N/A
2**	2479.500	89.83	-12.44	54.0	35.83	AV	190.00	150	Horizontal	N/A
3	4892.400	50.72	-3.25	74.0	-23.28	Peak	299.00	150	Horizontal	Pass
3**	4892.400	40.98	-3.25	54.0	-13.02	AV	299.00	150	Horizontal	Pass
4	6692.200	54.21	-0.31	74.0	-19.79	Peak	276.00	150	Horizontal	Pass
4**	6692.200	44.74	-0.31	54.0	-9.26	AV	276.00	150	Horizontal	Pass
5	10968.651	52.00	-0.44	74.0	-22.00	Peak	242.00	150	Horizontal	Pass
5**	10968.651	41.24	-0.44	54.0	-12.76	AV	242.00	150	Horizontal	Pass
6	17175.489	53.55	2.52	74.0	-20.45	Peak	139.00	150	Horizontal	Pass
6**	17175.489	45.75	2.52	54.0	-8.25	AV	139.00	150	Horizontal	Pass



GFSK (BLE 2Mbps) HIGH CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	1329.300	44.30	-17.44	74.0	-29.70	Peak	104.00	150	Vertical	Pass
1**	1329.300	29.68	-17.44	54.0	-24.32	AV	104.00	150	Vertical	Pass
2	2479.500	88.28	-12.44	74.0	14.28	Peak	135.00	150	Vertical	N/A
2**	2479.500	82.85	-12.44	54.0	28.85	AV	135.00	150	Vertical	N/A
3	4858.200	50.47	-3.28	74.0	-23.53	Peak	288.00	150	Vertical	Pass
3**	4858.200	40.51	-3.28	54.0	-13.49	AV	288.00	150	Vertical	Pass
4	6670.000	54.51	-0.75	74.0	-19.49	Peak	208.00	150	Vertical	Pass
4**	6670.000	44.04	-0.75	54.0	-9.96	AV	208.00	150	Vertical	Pass
5	10469.550	51.32	-0.88	74.0	-22.68	Peak	169.00	150	Vertical	Pass
5**	10469.550	41.00	-0.88	54.0	-13.00	AV	169.00	150	Vertical	Pass
6	17110.125	53.49	1.90	74.0	-20.51	Peak	181.00	150	Vertical	Pass
6**	17110.125	45.11	1.90	54.0	-8.89	AV	181.00	150	Vertical	Pass



A.7 Band Edge (Restricted-band band-edge)

Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

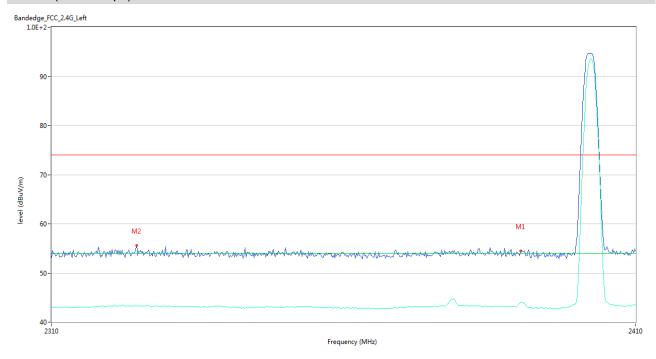
Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note ³: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 4: The Level (dBuV/m) has been corrected by factor.

Test Data and Plots

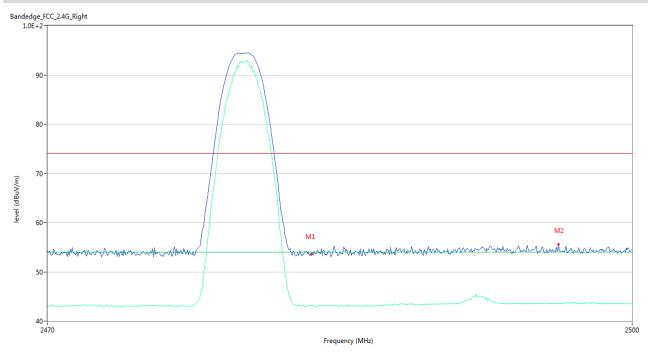
GFSK (BLE 1Mbps) LOW CHANNEL



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	2390.000	54.48	-0.50	74.0	-19.52	Peak	293.00	150	Horizontal	Pass
1**	2390.000	43.93	-0.50	54.0	-10.07	AV	293.00	150	Horizontal	Pass
2	2324.333	55.59	-0.70	74.0	-18.41	Peak	307.00	150	Horizontal	Pass
2**	2324.333	43.30	-0.70	54.0	-10.70	AV	307.00	150	Horizontal	Pass



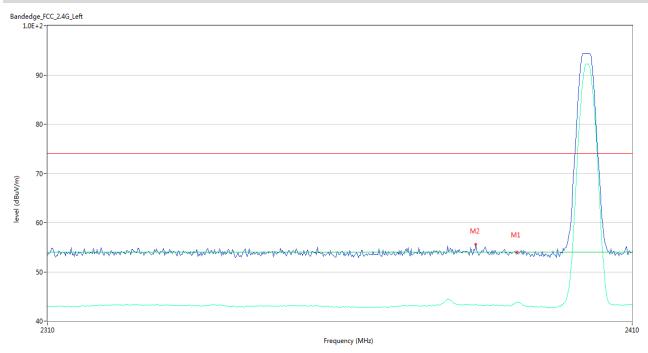
GFSK (BLE 1Mbps) HIGH CHANNEL



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	2483.500	53.57	-0.36	74.0	-20.43	Peak	6.00	150	Horizontal	Pass
1**	2483.500	43.16	-0.36	54.0	-10.84	AV	6.00	150	Horizontal	Pass
2	2496.200	55.59	-0.01	74.0	-18.41	Peak	265.00	150	Horizontal	Pass
2**	2496.200	43.64	-0.01	54.0	-10.36	AV	265.00	150	Horizontal	Pass



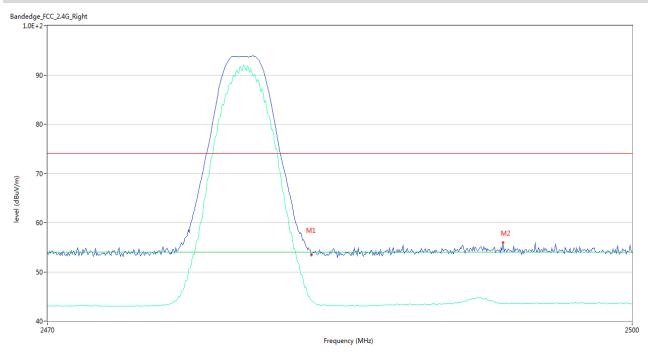
GFSK (BLE 2Mbps) LOW CHANNEL



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	2390.000	54.00	-0.50	74.0	-20.00	Peak	325.00	150	Horizontal	Pass
1**	2390.000	43.75	-0.50	54.0	-10.25	AV	325.00	150	Horizontal	Pass
2	2382.833	55.57	-0.61	74.0	-18.43	Peak	79.00	150	Horizontal	Pass
2**	2382.833	43.34	-0.61	54.0	-10.66	AV	79.00	150	Horizontal	Pass



GFSK (BLE 2Mbps) HIGH CHANNEL



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	2483.500	53.46	-0.36	74.0	-20.54	Peak	338.00	150	Horizontal	Pass
1**	2483.500	44.13	-0.36	54.0	-9.87	AV	338.00	150	Horizontal	Pass
2	2493.350	55.91	-0.05	74.0	-18.09	Peak	36.00	150	Horizontal	Pass
2**	2493.350	43.57	-0.05	54.0	-10.43	AV	36.00	150	Horizontal	Pass



A.8 Power Spectral Density (PSD)

Test Data

GFSK (BLE 1Mbps)				
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict	
	(dbiii/3ki iz)	(dbiii/3ki iz)		
Low Channel	-10.85	8	Pass	
Middle Channel	-11.06	8	Pass	
High Channel	-11.25	8	Pass	

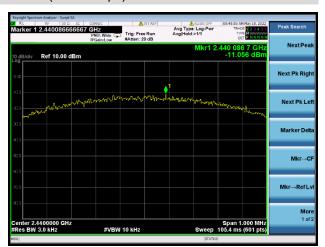
GFSK (BLE 2Mbps)				
Channel	Spectral power density	Limit	Verdict	
	(dBm/3kHz)	(dBm/3kHz)		
Low Channel	-14.33	8	Pass	
Middle Channel	-14.65	8	Pass	
High Channel	-15.05	8	Pass	

Test Plots

GFSK (BLE 1Mbps) LOW CHANNEL

| Next Peak | Next

GFSK (BLE 1Mbps) MIDDLE CHANNEL





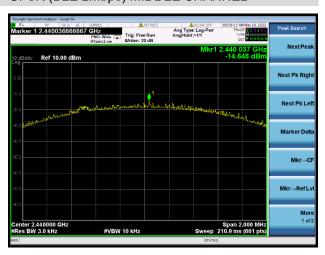
GFSK (BLE 1Mbps) HIGH CHANNEL



GFSK (BLE 2Mbps) LOW CHANNEL

Avg Type: Log-Pwr Avg|Hold:>1/1 Ref 10.00 dBm Next Pk Le #VBW 10 kHz

GFSK (BLE 2Mbps) MIDDLE CHANNEL



GFSK (BLE 2Mbps) HIGH CHANNEL





ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ2250275-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ2250275-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ2250275-AI.PDF".



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--END OF REPORT--