



EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD.

RADIO TEST - REPORT

FCC Compliance Test Report for

Product name: WalkingPad Walking Device

**Model name: WPSyF, WPSyF-H, WPSyF Pro, WPSyFB, WPSyFB-H,
WPSyFB Pro, WPSyFC, WPSyFC-H, WPSyFC Pro,
y can be 0~99 indicate different appearance**

FCC ID: 2ARDB-WPS1F

Test Report Number: EFGX20030013-IE-02-E01

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1 General Information

1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd. is not responsible for any generalisations and conclusions drawn from this report. Any modification of the test item can lead to invalidity of test results and this test report may therefore be not applicable to the modified test item.

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Operator:

2020-04-02

Bruce Zheng / Project Engineer



Date

Eurofins-Lab.

Name / Title

Signature

Technical responsibility for area of testing:

2020-04-02

Oliver Lai / RF Supervisor



Date

Eurofins

Name / Title

Signature

1.2 Testing laboratory

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.

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Telephone : +86-755-82911867

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The Laboratory has passed the Accreditation by the American Association for Laboratory Accreditation (A2LA). The Accreditation number is 5376.01

The Laboratory has been listed by industry Canada to perform electromagnetic emission measurements, The CAB identifier is CN0088

1.3 Details of approval holder

Name	: Beijing Kingsmith Technology Co., Ltd.
Address	: Floor 4, Building 25, Area 18, ABP Park, Fengtai, Beijing, China
Telephone	: N/A
Fax	: N/A

1.4 Application details

Date of receipt of application	: March 11, 2020
Date of receipt of test item	: March 11, 2020
Date of test	: March 11, 2020 – March 31, 2020
Date of issue	: April 02, 2020

1.5 Test item

Product type	: WalkingPad Walking Device
Model name	: WPSyF, WPSyF-H, WPSyF Pro, WPSyFB, WPSyFB-H, WPSyFB Pro, WPSyFC, WPSyFC-H, WPSyFC Pro, y can be 0~99 indicate different appearance
Brand	: KingSmith
Serial number	: N/A
Ratings	: 110-120V~, 60Hz, 735W
Test voltage	: 120V~, 60Hz
FCC ID	: 2ARDB-WPS1F
Additional information	: All models are identical except color and texture of appearance, therefore the model WPS1F was selected to perform all tests, the others models are fulfil with requirements without testing.

RadioTechnical data

Frequency range	: 2402MHz – 2480MHz
Radio Tech.	: Bluetooth Low Energy
Frequency channel	: 40 Channels
Modulation	: GFSK
Antenna type	: PCB antenna
Antenna gain	: 0dBi

Radio module

Type	: Bluetooth V4.2
Model	: F-9788
Manufacturer	: XIAMENSHI C-CHIP TECHNOLOGY CO., LTD

1.6 Test standards

Test Standards	
FCC Part 15 Subpart C 10-1-2018 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

Test Method

- 1: ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.
- 2: ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices.
- 3: KDB558074 D01 15.247 Meas Guidance v05r02

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations as specified were ascertained in the course of the tests performed.



2.2 Test environment

Temperature : 20 ... 25°C
 Relative humidity content : 30 ... 60%
 Air pressure : 100 ... 101kPa

2.3 Measurement uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted RF test	RF Power Conducted: 1.16dB Frequency test involved: 1.05×10 ⁻⁷ or 1%
Uncertainty for Radiated Spurious Emission 25MHz-3000MHz	Horizontal: 4.46dB; Vertical: 4.54dB;
Uncertainty for Radiated Spurious Emission 3000MHz-18000MHz	Horizontal: 4.42dB; Vertical: 4.41dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 4.63dB; Vertical: 4.62dB;

2.4 Test mode

The EUT was set at continuously transmitting and receiving mode (CH0, CH19, CH39) during the test.

2.5 Test equipment utilized

EQUIPMENT ID	EQUIPMENT NAME	MODEL NO.	CAL. DUE DATE
23-2-13-12	Signal Analyzer	N9010B-544	2020-04-14
23-2-13-13	BT/WLAN Tester	CMW270	2020-04-14
23-2-13-14	Signal Generator	N5183B-520	2020-05-05
23-2-13-15	Vector Signal Generator	N5182B-506	2020-04-14
23-2-10-43	Switch and Control Unit	ERIT-E-JS0806-2	2020-04-14
23-2-10-44	DC power supply	E3642A	2020-04-14
23-2-10-45	temperature test chamber	SG-80-CC-2	2020-05-05
23-2-13-01	EMI Test Receiver	ESR7	2020-04-04
23-2-13-02	Signal Analyzer	N9020B-544	2020-05-05
23-2-12-01	Active Loop Antenna	FMZB 1519B	2020-04-20
23-2-12-02	TRILOG Broadband Antenna	VULB9168	2020-04-13
23-2-12-03	Horn Antenna	3117	2020-04-13
23-2-12-04	Horn Antenna	BBHA 9170	2020-04-17
23-2-12-05	Universal Antenna Stand	CLSA0110	2020-04-13
23-2-10-01	Preamplifier	BBV9745	2020-04-15
23-2-10-02	Preamplifier	EMC001330	2020-04-15
23-2-10-03	Preamplifier	EMC051845SE	2020-05-06
23-2-10-14	Switch and Control Unit	ERIT-E-JS0806-SF1	N/A

2.6 Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
Laptop	LENOVO	TP00096A	PF-1QH0LV

2.7 Test software information:

Test Software Version	Beken BLE RF Test V1.0 exe		
Modulation	Setting TX Power	TX Pattern	Packet Type
GFSK	3	TX Packet	BLE/1M

2.8 Customized Configurations

EUT Conf.	Signal Description	Operating Frequency	Duty Cycle
TM1_Ch0	GFSK	Ch No. 0 / 2402 MHz	40.21%
TM1_Ch19	GFSK	Ch No. 19 / 2440 MHz	40.21%
TM1_Ch39	GFSK	Ch No. 39 / 2480 MHz	40.21%

2.9 Test Environments

Enviroment Parameter	Temperature	Voltage	Relative Humidity
101.7Kpa	26.5	3.3Vdc	68.3%

2.10 Test results

☒ 1st test

☐ test after modification

☐ production test

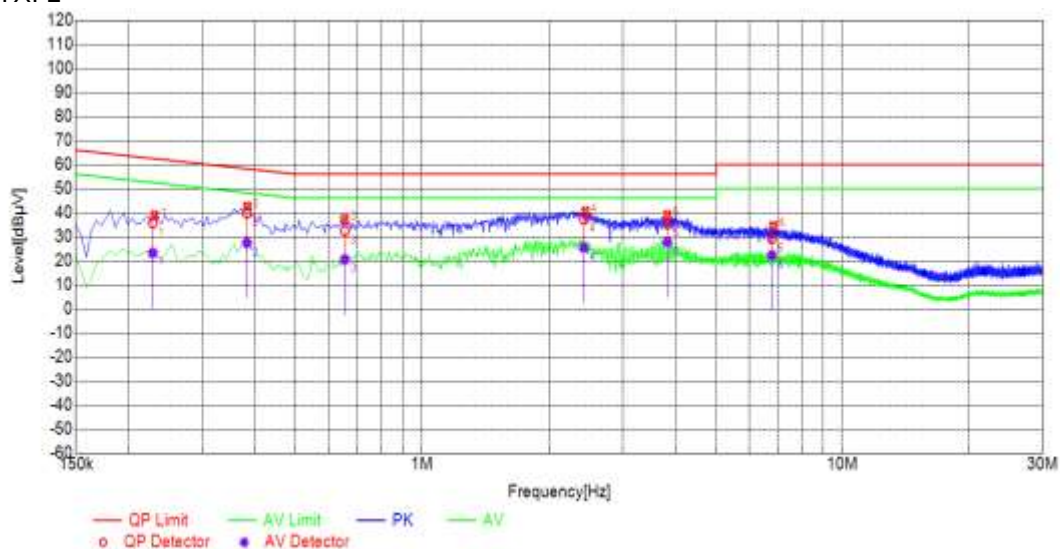
Technical Requirements				
FCC Part 15 Subpart C				
Test Condition		Test Result	Verdict	Test Site
§15.207	Conducted emission AC power port	Page 9	Pass	Site 1
§15.247(b)(1)	Conducted output power for FHSS	--	N/A	--
§15.247(b)(3)	Conducted output power for DTS	Appendix C	Pass	Site 1
§15.247(e)	Power spectral density	Appendix D	Pass	Site 1
§15.247(a)(2)	6dB bandwidth	Appendix B	Pass	Site 1
§15.247(a)(1)	20dB Occupied bandwidth	--	N/A	--
§15.247(a)(1)	Carrier frequency separation	--	N/A	--
§15.247(a)(1)(ii i)	Number of hopping frequencies	--	N/A	--
§15.247(a)(1)(ii i)	Dwell Time	--	N/A	--
§15.247(d) & §15.205	Spurious RF conducted emissions	Appendix G Appendix F	Pass	Site 1
§15.247(d)	Band edge	Appendix E	Pass	Site 1
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	See page 19	Pass	Site 1
§15.203	Antenna requirement	See note 1	Pass	--

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses an chip antenna, the gain: 0dBi. According to §15.203, it is considered sufficiently to comply with the provisions of this section.

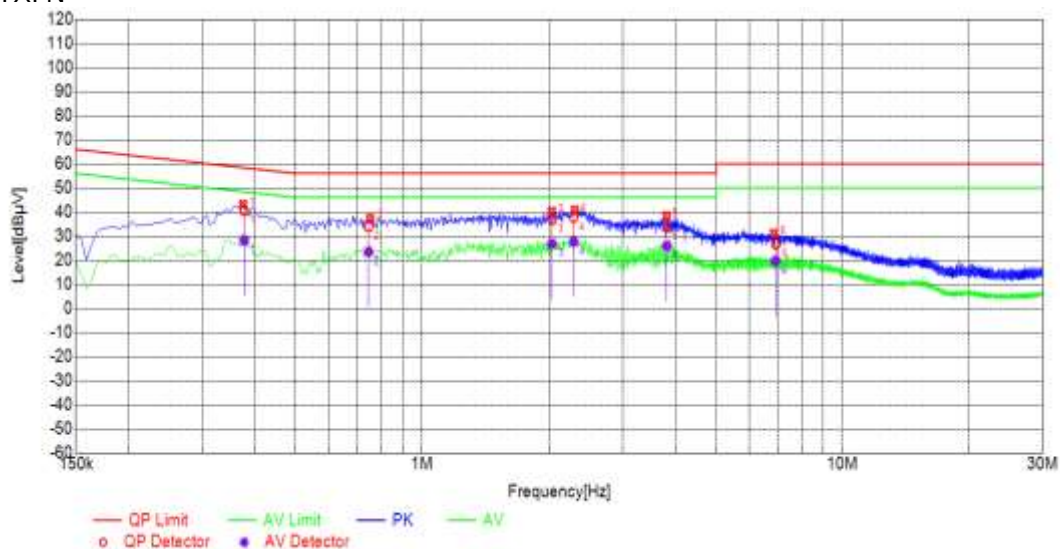
Test Result:

BLE TX: L



Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
0.2287	10.22	35.65	62.50	26.85	23.21	52.50	29.29	PASS
0.3829	10.21	39.75	58.22	18.47	27.43	48.22	20.79	PASS
0.6550	10.22	32.37	56.00	23.63	20.55	46.00	25.45	PASS
2.4277	10.25	37.15	56.00	18.85	25.43	46.00	20.57	PASS
3.8322	10.29	35.29	56.00	20.71	27.80	46.00	18.20	PASS
6.7969	10.33	29.14	60.00	30.86	22.32	50.00	27.68	PASS

BLE TX: N



Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
0.3772	10.20	40.52	58.34	17.82	28.11	48.34	20.23	PASS
0.7458	10.23	33.87	56.00	22.13	23.47	46.00	22.53	PASS
2.0395	10.25	36.75	56.00	19.25	26.83	46.00	19.17	PASS
2.2942	10.25	37.71	56.00	18.29	27.71	46.00	18.29	PASS
3.8239	10.29	33.78	56.00	22.22	25.99	46.00	20.01	PASS
6.9406	10.34	26.66	60.00	33.34	19.72	50.00	30.28	PASS

3.2 Conducted Peak output power

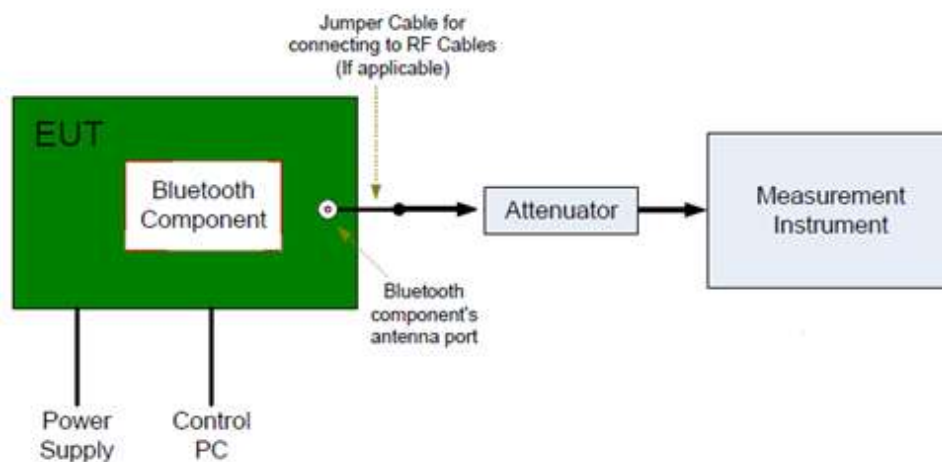
Test Method

The test method was referred to the subclause 11.9.1.1 of ANSI C63.10-2013.

1. Connect EUT test port to spectrum analyzer.
2. Set the EUT to transmit maximum output power at 2.4GHz.
3. Then set the EUT to transmit at high, middle and low frequency and measure the conducted output power separately.
4. RBW=2MHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
5. Repeat above procedures until all frequencies measured were complete.

Test Setup:

The Bluetooth component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



Limits:

According to §15.247 (b) (3), conducted output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤ 1	≤ 30

Test Result: Pass

3.3 6dB bandwidth

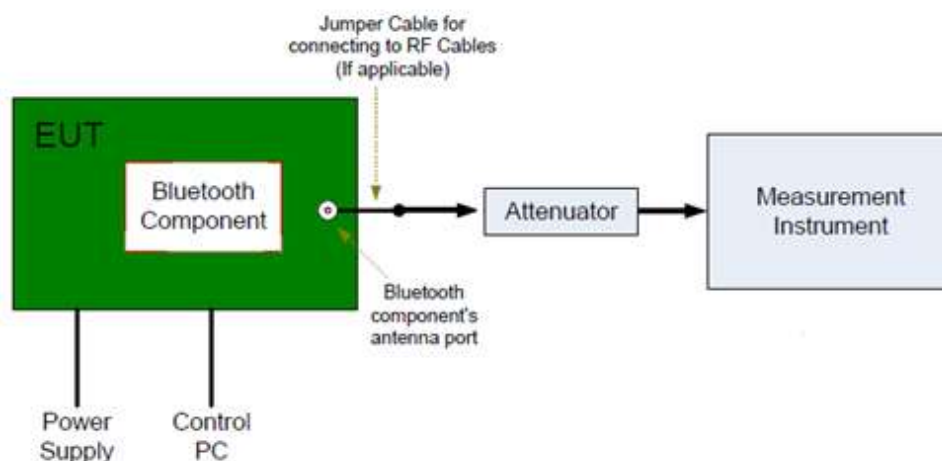
Test Method:

The test method was referred to the subclause 11.8 of ANSI C63.10-2013.

1. Connect EUT test port to spectrum analyzer.
2. Set the EUT to transmit maximum output power at 2.4GHz.
3. Then set the EUT to transmit at high, middle and low frequency and measure the conducted output power separately.
4. RBW=100K, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
5. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq$ 6 dB.
6. Allow the trace to stabilize, record the X dB Bandwidth value.

Test Setup:

The Bluetooth component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



Limit:

According to §15.247(a)(2), 6dB bandwidth limit as below:

Limit [kHz]

≥ 500

Test Result: Pass

3.4 Power spectral density

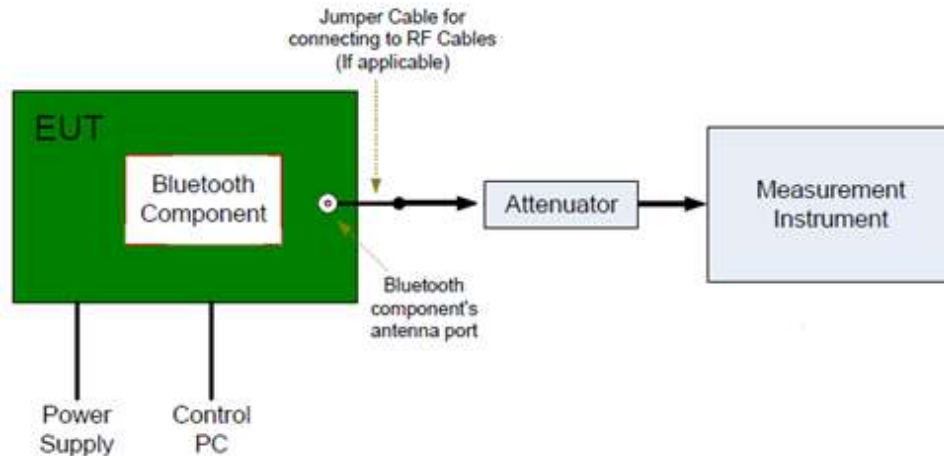
Test Method:

The test method was referred to the subclause 11.10 of ANSI C63.10-2013.

1. Connect EUT test port to spectrum analyzer.
2. Set the EUT to transmit maximum output power at 2.4GHz.
3. Then set the EUT to transmit at high, middle and low frequency separately.
4. Set analyzer center frequency to DTS channel center frequency.
5. Set the span to 1.5DTS bandwidth, set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$, set the VBW $\geq 3\text{RBW}$.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level within the RBW.
11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Setup:

The Bluetooth component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



Limit:

According to §15.247(e), Power spectral density limit as below:

Limit [dBm]

≤ 8

Test Result: Pass

3.5 Spurious RF conducted emissions

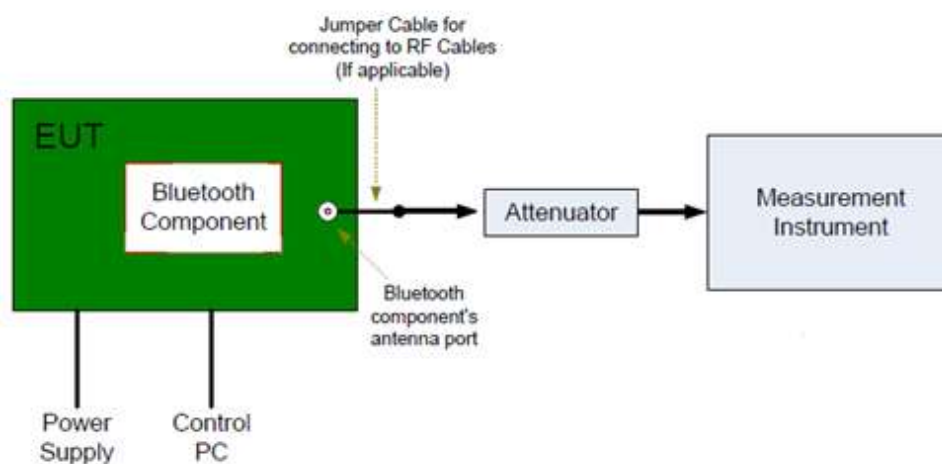
Test Method:

The test method was referred to the subclause 11.11/11.12 of ANSI C63.10-2013.

1. Connect EUT test port to spectrum analyzer.
2. Set the EUT to transmit maximum output power at 2.4GHz.
3. Then set the EUT to transmit at high, middle and low frequency separately.
4. Set Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation.
5. Set RBW = 100 kHz, VBW $\geq$ RBW.
6. Set Sweep = auto.
7. Set Detector function = peak.
8. Allow the trace to stabilize.
9. Repeat above procedures until all frequencies measured were complete.

Test Setup:

The Bluetooth component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



Limit:

According to §15.247(d) & §15.209 & §15.205 Spurious RF conducted emissions limit as below:

Frequency Range MHz	L edimit (dBc)
30-25000	-20

Test Result: Pass

3.6 Band edge

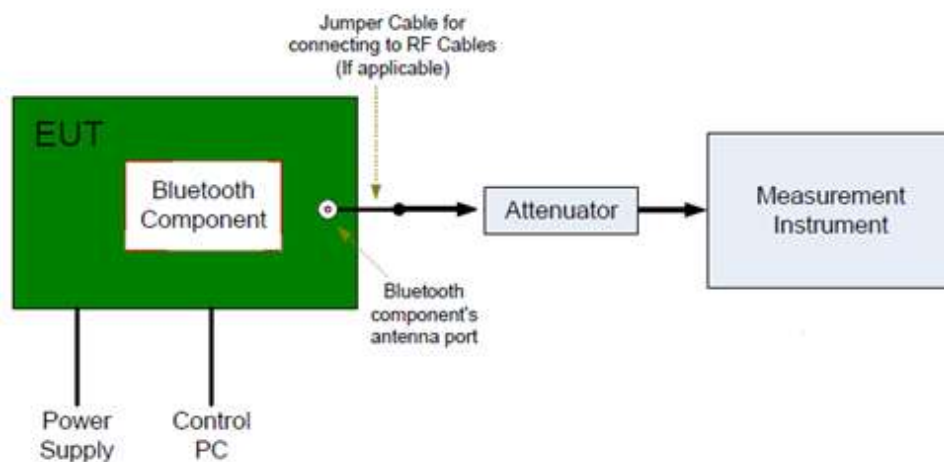
Test Method:

The test method was referred to the subclause 11.13.3.4 of ANSI C63.10-2013.

1. Connect EUT test port to spectrum analyzer.
2. Set the EUT to transmit maximum output power at 2.4GHz.
3. Then set the EUT to transmit at high, middle and low frequency separately.
4. Set Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation.
5. Set RBW $\geq$ 1% of the span, VBW $\geq$ RBW.
6. Set Sweep = auto.
7. Set Detector function = peak.
8. Allow the trace to stabilize.
9. Repeat above procedures until all frequencies measured were complete.

Test Setup:

The Bluetooth component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



Limit:

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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, provided that the transmitter demonstrates compliance with the peak conducted power limits.

Test Result: Pass

3.7 Spurious radiated emissions for transmitter

Test Method:

The test method was referred to the subclause 11.11/11.12 of ANSI C63.10-2013.

- 1: The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
- 3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5: Use the following spectrum analyzer settings According to C63.10:

For Above 1GHz

Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 1MHz, VBW ≥ RBW for peak measurement and VBW = 10Hz for average measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 KHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Below 30MHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 200 Hz, VBW ≥ RBW from 9KHz to 0.15MHz, RBW 9KHz VBW ≥ RBW from 0.15MHz to 30MHz for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

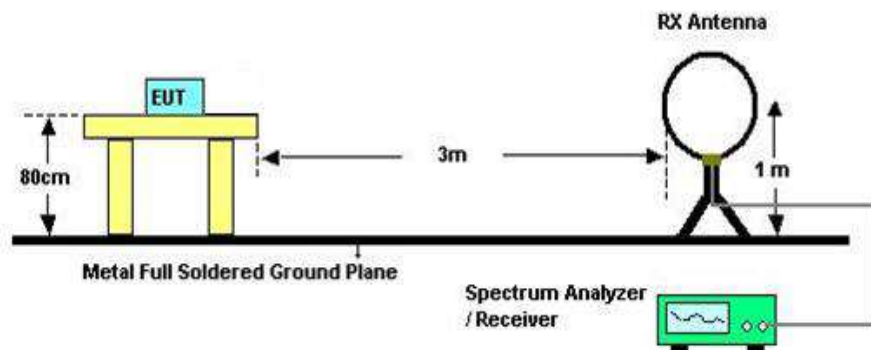
Note:

- 1: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.
- 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($20\log(1/\text{duty cycle})$).
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
- 5: When duty cycle < 98%, The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\text{VBW} \geq 1 / T$, the T is transmission duration (T).

Test Setup:

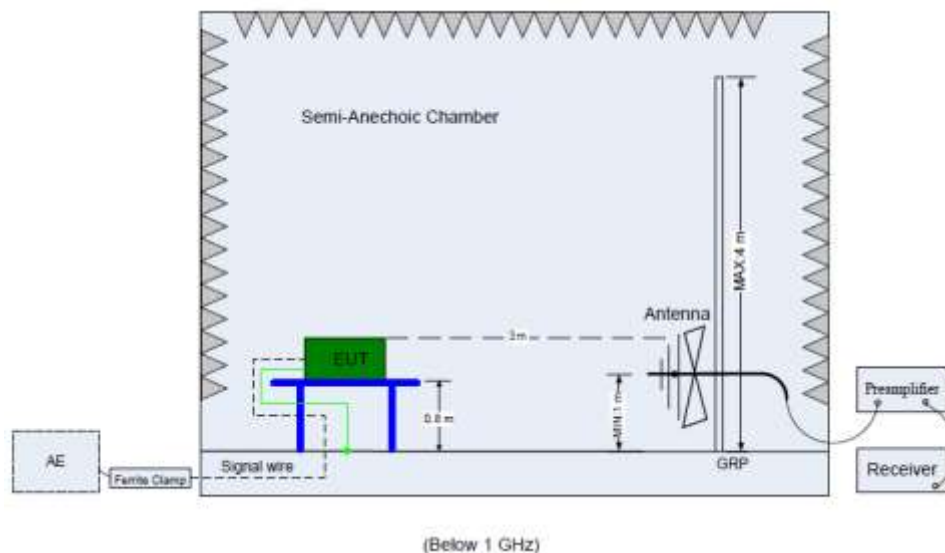
Test Setup 1: Radiated Emission test below 30MHz

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.4. The test distance is 3m. The setup is according to ANSI C63.4.



Test Setup 2: Radiated Emission test below 1GHz

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.4. The test distance is 3m. The setup is according to ANSI C63.4.



§15.205 Restricted bands of operation

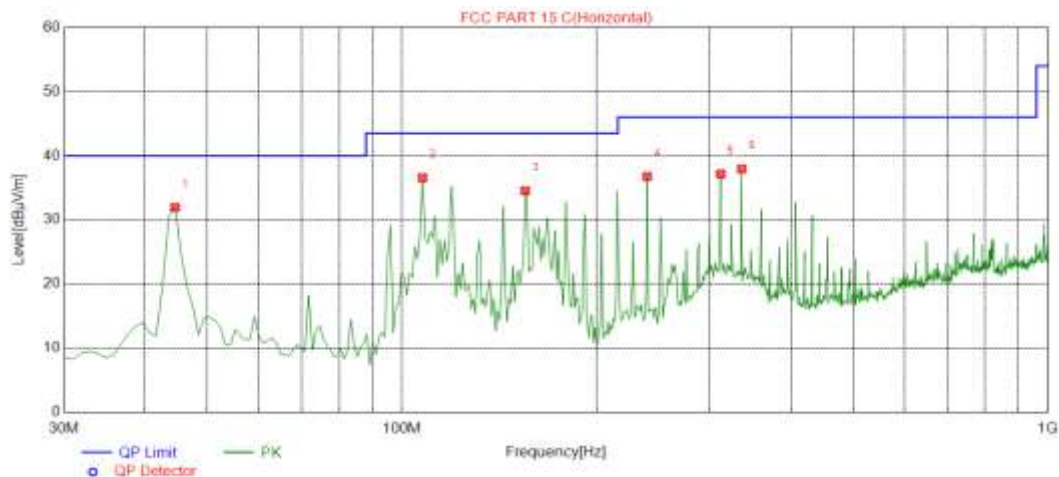
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Test Result: Pass

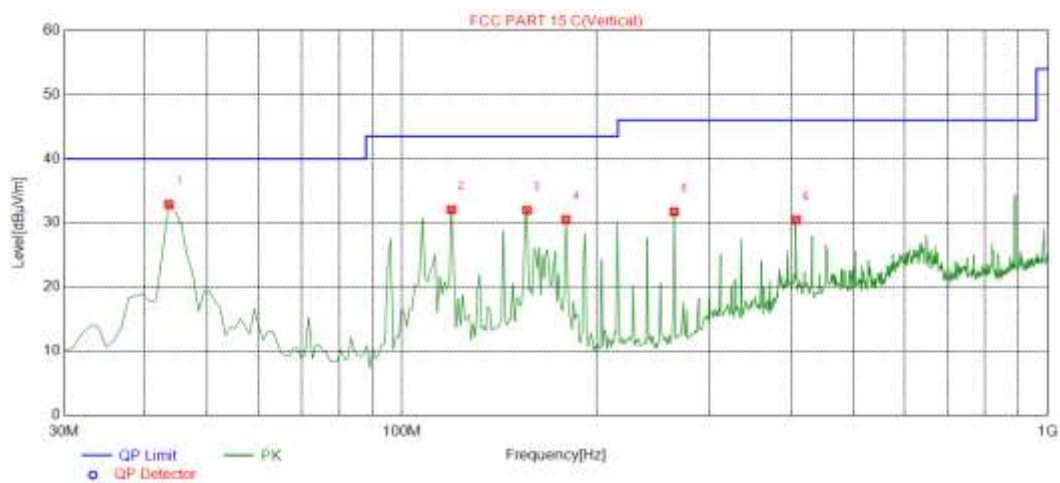
Spurious radiated emissions (Radiated)

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

GFSK Modulation 2402MHz Test Result



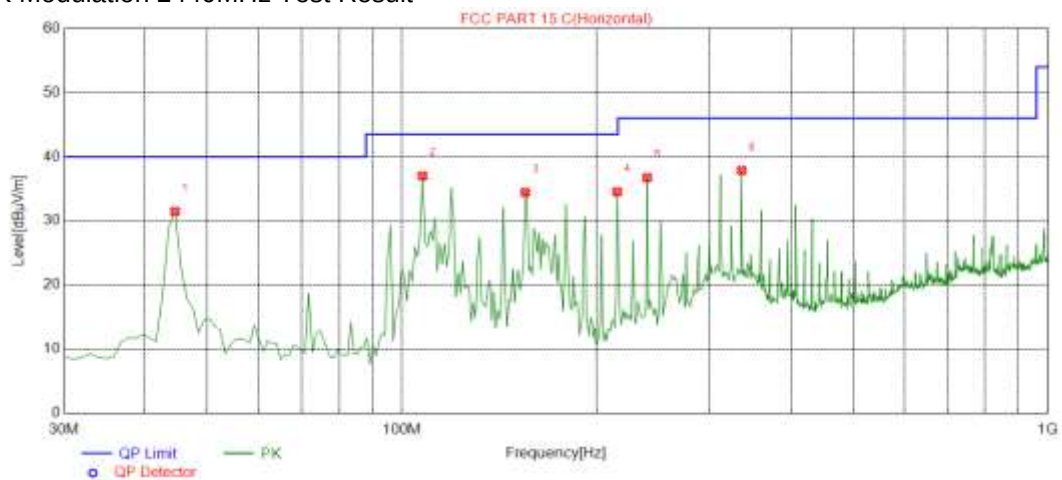
Freq. [MHz]	QP Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
44.5646	31.94	-16.21	40.00	8.06	100	17	Horizontal
107.677	36.56	-19.59	43.50	6.94	100	169	Horizontal
155.255	34.54	-14.85	43.50	8.96	100	36	Horizontal
239.729	36.76	-17.35	46.00	9.24	100	129	Horizontal
311.581	37.16	-14.81	46.00	8.84	100	238	Horizontal
335.855	37.95	-14.64	46.00	8.05	100	43	Horizontal



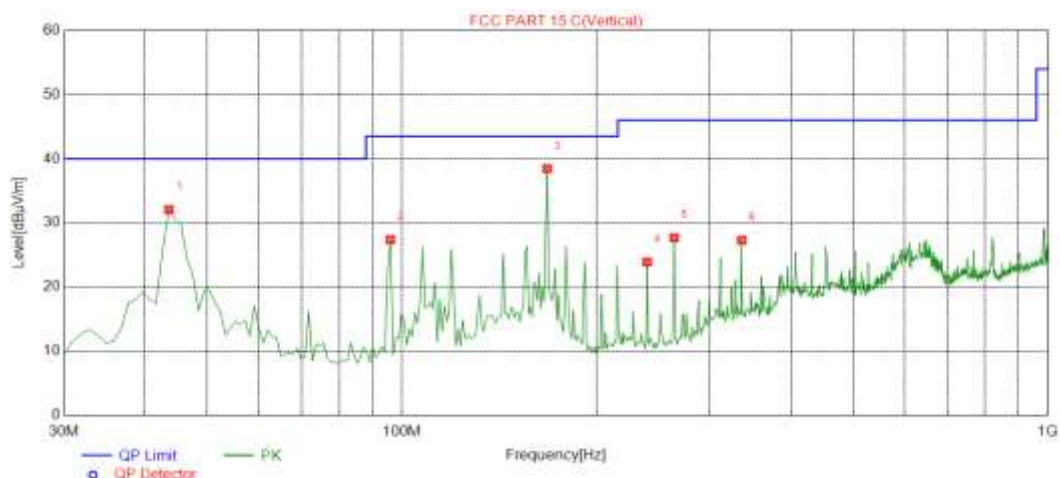
Freq. [MHz]	QP Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
43.5936	32.89	-16.24	40.00	7.11	100	97	Vertical
119.329	32.07	-18.32	43.50	11.43	100	343	Vertical
156.226	31.97	-14.88	43.50	11.53	100	343	Vertical
179.529	30.52	-16.39	43.50	12.98	100	343	Vertical
264.004	31.73	-16.49	46.00	14.27	100	343	Vertical
407.707	30.48	-12.83	46.00	15.52	100	343	Vertical

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Corr.	Result
	MHz	dBuV/m		dBuV/m		dB	(dB)	
1000-25000MHz	7209.6048	55.05	Horizontal	74.00	PK	18.95	-11.98	Pass
	7209.6048	36.60	Horizontal	54.00	AV	17.40	-11.98	Pass
	7209.6048	52.74	Vertical	74.00	PK	21.26	-11.98	Pass
	--	--	Vertical	--	AV	--	--	Pass

GFSK Modulation 2440MHz Test Result



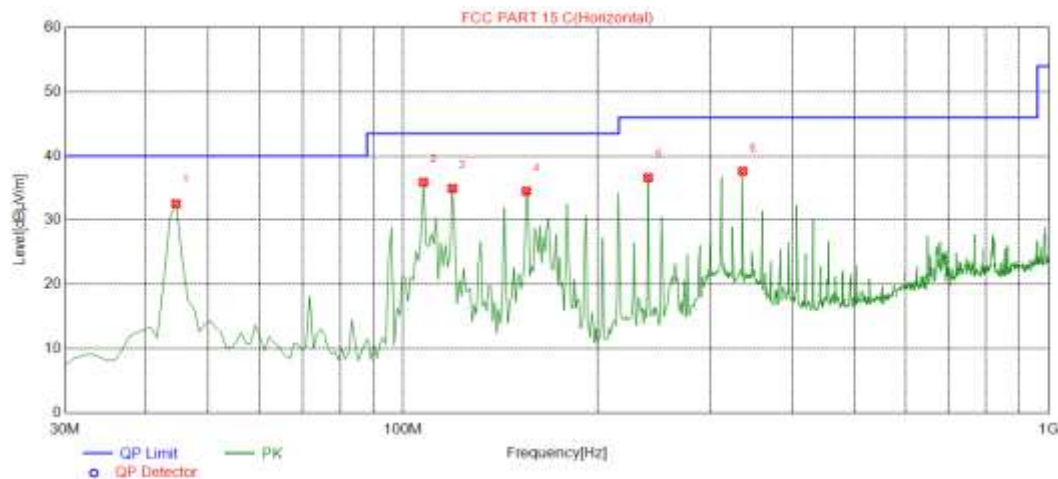
Freq. [MHz]	QP Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
44.5646	31.48	-16.21	40.00	8.52	100	165	Horizontal
107.677	37.00	-19.59	43.50	6.50	100	343	Horizontal
155.255	34.44	-14.85	43.50	9.06	100	37	Horizontal
215.455	34.53	-17.89	43.50	8.97	100	135	Horizontal
239.729	36.74	-17.35	46.00	9.26	100	128	Horizontal
335.855	37.86	-14.64	46.00	8.14	100	47	Horizontal



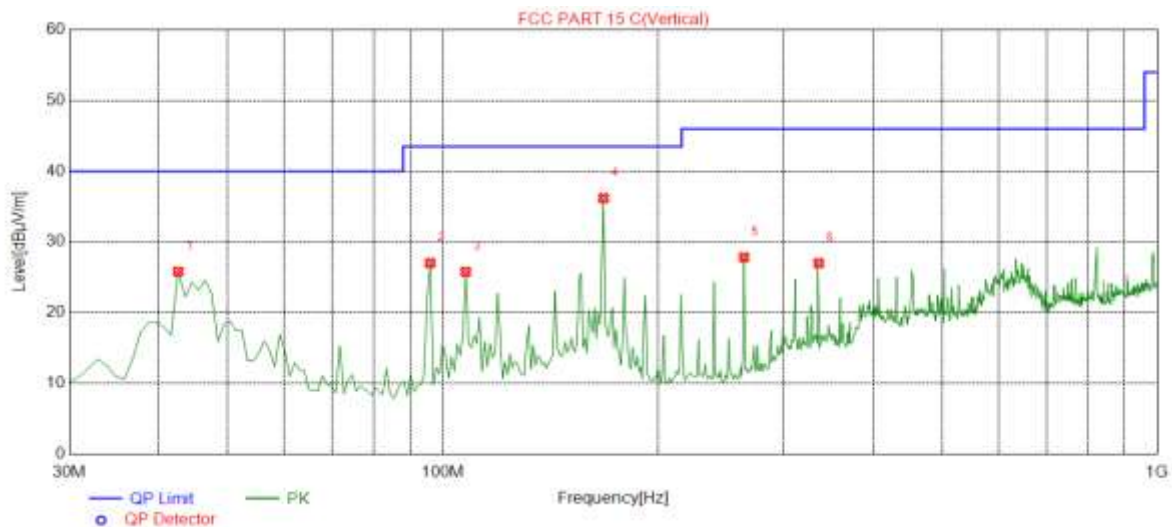
Freq. [MHz]	QP Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
43.5936	32.08	-16.24	40.00	7.92	100	90	Vertical
96.0260	27.39	-20.70	43.50	16.11	100	75	Vertical
167.877	38.46	-15.16	43.50	5.04	100	24	Vertical
239.729	23.90	-17.35	46.00	22.10	100	122	Vertical
264.004	27.70	-16.49	46.00	18.30	100	306	Vertical
335.855	27.29	-14.64	46.00	18.71	100	80	Vertical

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Corr.	Result
	MHz	dBμV/m		dBμV/m		dB	(dB)	
1000-25000MHz	6841.9210	60.99	H	74.00	PK	13.01	-12.05	Pass
	6841.9210	36.01	H	54.00	AV	17.99	-12.04	Pass
	7952.4762	51.06	V	74.00	PK	22.94	-10.77	Pass
	--	--	V	--	AV	--	--	Pass

GFSK Modulation 2480MHz Test Result



Freq. [MHz]	QP Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
44.5646	32.58	-16.21	40.00	7.42	100	17	Horizontal
107.677	35.93	-19.59	43.50	7.57	100	164	Horizontal
119.329	34.97	-18.32	43.50	8.53	100	156	Horizontal
155.255	34.55	-14.85	43.50	8.95	100	17	Horizontal
239.729	36.64	-17.35	46.00	9.36	100	131	Horizontal
335.855	37.65	-14.64	46.00	8.35	100	43	Horizontal



Freq. [MHz]	QP Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
42.6226	25.81	-16.26	40.00	14.19	100	80	Vertical
96.0260	27.03	-20.70	43.50	16.47	100	67	Vertical
107.677	25.79	-19.59	43.50	17.71	100	98	Vertical
167.877	36.21	-15.16	43.50	7.29	100	149	Vertical
264.004	27.83	-16.49	46.00	18.17	100	302	Vertical
335.855	27.01	-14.64	46.00	18.99	100	67	Vertical

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Corr.	Result
	MHz	dBμV/m		dBμV/m		dB	(dB)	
1000-25000MHz	7442.2211	55.16	H	74.00	PK	18.84	-11.26	Pass
	7442.2211	37.31	H	54.00	AV	16.69	-11.26	Pass
	7442.2211	52.81	V	74.00	PK	21.19	-11.26	Pass
	--	--	V	--	AV	--	--	Pass

Remark:

- (1) “*” means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.
- (2) Data of measurement within this frequency range shown “--” in the table above means the reading of emissions are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Above 1GHz: Corrector factor = Antenna Factor + Cable Loss - Amplifier Gain.
- (4) Below 1GHz: Corrector factor = Antenna Factor + Cable Loss - Amplifier Gain.
- (5) Note: The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Band Edge (Radiated)

GFSK Modulation 2402MHz Test Result



Freq. [MHz]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
2390.0	42.62	-22.59	74.00	31.38	150	Horizontal
2383.5	43.35	-22.59	74.00	30.65	150	Horizontal

PK level= Read level + Factor

Factor= Antenna Factor + Cable loss – Preamp Factor

GFSK Modulation 2480MHz Test Result



Freq. [MHz]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
2483.50	44.94	-22.59	74.00	29.06	150	Vertical
2483.64	45.97	-22.59	74.00	28.03	150	Vertical

PK level= Read level + Factor

Factor= Antenna Factor + Cable loss – Preamp Factor