



Test Report No.:  
FCC2025-0030-RF

## TEST REPORT

**FCC ID** : 2BM9U-YJE050  
**Applicant** : Shenzhen Wei Wu Sen Lin Technology Company Limited  
**Product Name** : Automatic Pet Dryer  
**Model No.** : YJE050, YJE050XXXX

**CVC Testing Technology Co., Ltd.**

<b>Product Name</b>	Automatic Pet Dryer	<b>Trade Mark</b>	Pet's Journey			
<b>Type/Model</b>	YJE050, YJE050XXXX	<b>Sample Status</b>	/			
<b>Applicant</b>	Shenzhen Wei Wu Sen Lin Technology Company Limited					
<b>Applicant Address</b>	Unit 1803, 18th Floor, Zhaobangji Building, No. 319, Fuhua Road, Gangxia Community, Futian Subdistrict, Futian District, Shenzhen, Guangdong, China					
<b>Manufacturer</b>	Shenzhen Wei Wu Sen Lin Technology Company Limited					
<b>Manufacturer Address</b>	Unit 1803, 18th Floor, Zhaobangji Building, No. 319, Fuhua Road, Gangxia Community, Futian Subdistrict, Futian District, Shenzhen, Guangdong, China					
<b>Factory</b>	Shenzhen Wei Wu Sen Lin Technology Company Limited					
<b>Factory Address</b>	Unit 1803, 18th Floor, Zhaobangji Building, No. 319, Fuhua Road, Gangxia Community, Futian Subdistrict, Futian District, Shenzhen, Guangdong, China					
<b>Sample Identification</b>	1-1	<b>Test Item</b>	See page 9			
<b>Tested According To</b>	FCC CFR47 Part 15C Radio Frequency Devices ANSI C63.10-2020+Cor1-2023 KDB 558074 D01 15.247 Meas Guidance v05r02 KDB 662911 D01 Multiple Transmitter Output v02r01					
<b>Receiving Date</b>	Jun.25,2025	<b>Completing Date</b>	Jun.30,2025~Jul.23,2025			
<b>Test conclusion</b>	<p>The equipment under test was found to comply with the requirements of the standards applied.</p> <p>Final Verdict: Pass.</p>					
	Seal of CVC					
	Date of issue: Jul. 29, 2025					
Abbreviations: / Pass= passed Fail= failed N/A= not applicable						
This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.						

Approved by:

Chen Huawen



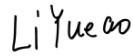
Reviewed by:

Xu Zhenfei



Tested by:

Li Yueao



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**RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCC2025-0030-RF	Original release	Jul.29,2025

# 1. General Product Information

## 1.1 General information

Product Name	Automatic Pet Dryer
Model No.	YJE050
Additional model	YJE050XXXX
Power Supply	AC 100-120V~50/60Hz
Bluetooth Version	4.2
Software version	V1.1.3
Hardware version	N/A
specific power settings	Bluetooth(LE_1M): Default IEEE 802.11b: 82 IEEE 802.11g: 92 IEEE 802.11n(20MHz): 92
Antenna Type	PCB antenna
Antenna Gain	WIFI: 2.54 dBi (provided by client) Bluetooth: 2.54 dBi (provided by client)
Beamforming gain	Unsupported (provided by client)
Frequency Range	Bluetooth(LE_1M): 2402~2480MHz IEEE 802.11b/g/n(HT20): 2412~2462MHz
Channel Number	Bluetooth(LE_1M):40 Channels IEEE 802.11b/g/n (HT20): 11 Channels
Type of Modulation	Bluetooth(LE_1M):GFSK IEEE 802.11b: DSSS (CCK,DQPSK,DBPSK); IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK); IEEE 802.11n(HT20) : OFDM (64QAM, 16QAM,QPSK,BPSK)
Max. Conducted Power	Bluetooth(LE): 6.23 dBm WIFI2.4G:20.18dBm
Operate Temp.Range	16°C~+39°C

### Note:

1. The information of the EUT is declared by the manufacturer.
2. The laboratory is not responsible for the product technical specification provided by the client.
3. EUT photo refer to report (Report NO.:FCC2025-0030-EUT).
4. The EUT have SISO function, provides 1 completed transmitter and 1 receiver.
5. The product models of this application are:YJE050,YJE050XXXX. All the tests carried out on model YJE050.They share the same PCB board, schematic diagram, PCB layout, electrical structure, electrical principle and key components, but the difference is only the model and appearance color.The material difference between the parts and the parts in the product model for inspection is shown in the table below:

No	Model	difference	Remarks
1	YJE050	1. Structure are same between YJE050 and YJE050XXXX, only no same for colour. 2. Explaining for YJE050XXXX, X is selectable from 0~9, & A~Z.	Inspection model
2	YJE050XXXX		Coverage model

## 2. Test Sites

### 2.1 Test Facilities

The tests and measurements refer to this report were performed by RF testing Lab. of CVC Testing Technology Co., Ltd.

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Telephone : +86-20-32293888

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FCC(Test firm designation number: CN1282)

IC(Test firm CAB identifier number: CN0103)

CNAS(Test firm designation number: L0095)

### 2.2 Description of Non-standard Method and Deviations

The testing and measurement methods used in this report are applied by all standard methods. Not any non-standard method or deviation from the used standards was used.

### 2.3 List of Test and Measurement Instruments

Refer to **Appendix X**.

## 3. Test Configuration

### 3.1 Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Test Mode	Antenna Delivery	Test Channel
Bluetooth(LE_1M)	1TX / 1RX	0,19,39
IEEE 802.11b	1TX / 1RX	1,6,11
IEEE 802.11g	1TX / 1RX	1,6,11
IEEE 802.11n 20 MIMO	1TX / 1RX	1,6,11

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate and different channels. Preliminary tests have been done on all the configurations for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates and channels are shown as following table.

Test Mode	Data Rate		
	Antenna 1	Antenna 2	MIMO
Bluetooth(LE_1M)	1	/	/
IEEE 802.11b	1	/	/
IEEE 802.11g	6	/	/
IEEE 802.11n 2.4GHz 20MHz	MCS 0	/	/

Test Items	Test Antennas	Test Modes	Test Channels
Radiated Emissions	Antenna 1	IEEE 802.11n 20 Bluetooth(LE_1M)	1/ 0
Radiated Emissions (Band Edge)	Antenna 1	IEEE 802.11n 20 Bluetooth(LE_1M)	1,6,11/ 0,19,39
Maximum conducted output power	Antenna 1	Bluetooth(LE_1M)/ IEEE 802.11b/ IEEE 802.11g/ IEEE 802.11n 20	0,19,39/ 1,6,11/ 1,6,11/ 1,6,11
Minimum 6 dB bandwidth	Antenna 1	Bluetooth(LE_1M)/ IEEE 802.11b/ IEEE 802.11g/ IEEE 802.11n 20	0,19,39/ 1,6,11/ 1,6,11/ 1,6,11
Occupied Channel Bandwidth	Antenna 1	Bluetooth(LE_1M)/ IEEE 802.11b/ IEEE 802.11g/ IEEE 802.11n 20	0,19,39/ 1,6,11/ 1,6,11/ 1,6,11
Band Edge Measurement	Antenna 1	Bluetooth(LE_1M)/ IEEE 802.11b/ IEEE 802.11g/ IEEE 802.11n 20	0,39/ 1,11/ 1,11/ 1,11
Maximum Power spectral density	Antenna 1	Bluetooth(LE_1M)/ IEEE 802.11b/ IEEE 802.11g/ IEEE 802.11n 20	0,19,39/ 1,6,11/ 1,6,11/ 1,6,11
Spurious RF Conducted Emissions	Antenna 1	Bluetooth(LE_1M)/ IEEE 802.11b/ IEEE 802.11g/ IEEE 802.11n 20	0,19,39/ 1,6,11/ 1,6,11/ 1,6,11

## 3.2 Duty cycle

Appendix G of WIFI2.4G\_ diagram and Appendix G of BLE\_ diagram

## 4. Summary of measurement results

Summary of measurements of results	Clause in FCC rules	Verdict	Note
Conducted Emissions	15.207	PASS	/
Radiated Emissions	15.247(d),15.205,15.209	PASS	/
Maximum conducted output power	15.247(b)(3)	PASS	Appendix C of WIFI2.4G_diagram and Appendix C of BLE_diagram
Minimum 6 dB bandwidth	15.247(a)(2)	PASS	Appendix A of WIFI2.4G_diagram and Appendix A of BLE_diagram
Occupied Channel Bandwidth	15.247(a)(2)	PASS	Appendix B of WIFI2.4G_diagram and Appendix B of BLE_diagram
Band Edge Measurement	15.247(d)	PASS	Appendix E of WIFI2.4G_diagram and Appendix E of BLE_diagram
Maximum Power spectral density	15.247(e)	PASS	Appendix D of WIFI2.4G_diagram and Appendix D of BLE_diagram
Spurious RF Conducted Emissions	15.247(d)	PASS	Appendix F of WIFI2.4G_diagram and Appendix F of BLE_diagram
Antenna Requirement	15.203	PASS	See note 1

Note 1: According to 15.203, it is considered sufficient to comply with the provisions of this section.

## 5. Measurement procedure

### 5.1 Conducted Emission

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

The EUT was setup according to ANSI C63.10-2020/Cor1-2023 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

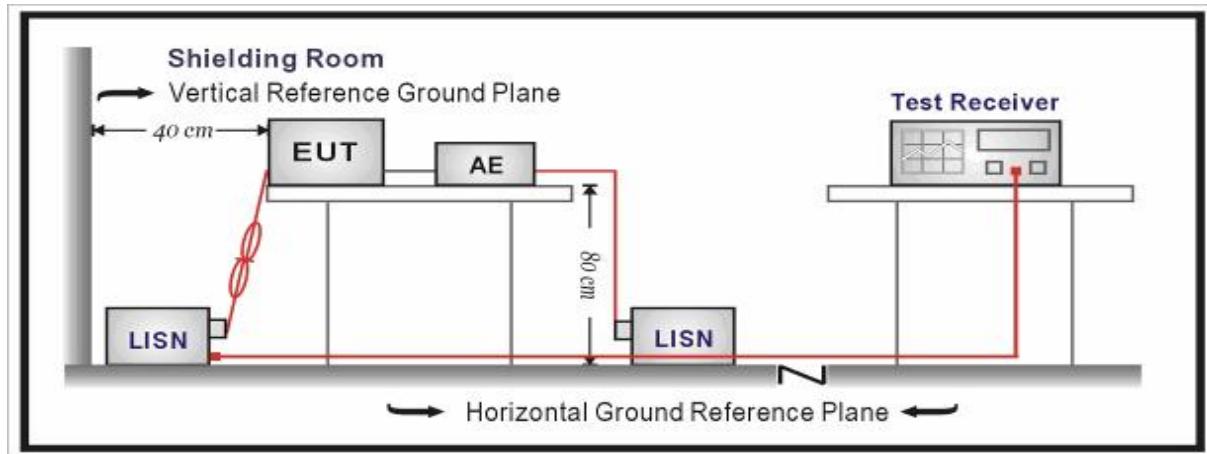
Limits:

Frequency (MHz)	Conducted Limits(dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

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

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

## Test Setup:



## Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

### Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Level =Reading + Factor.

## Measurement Uncertainty:

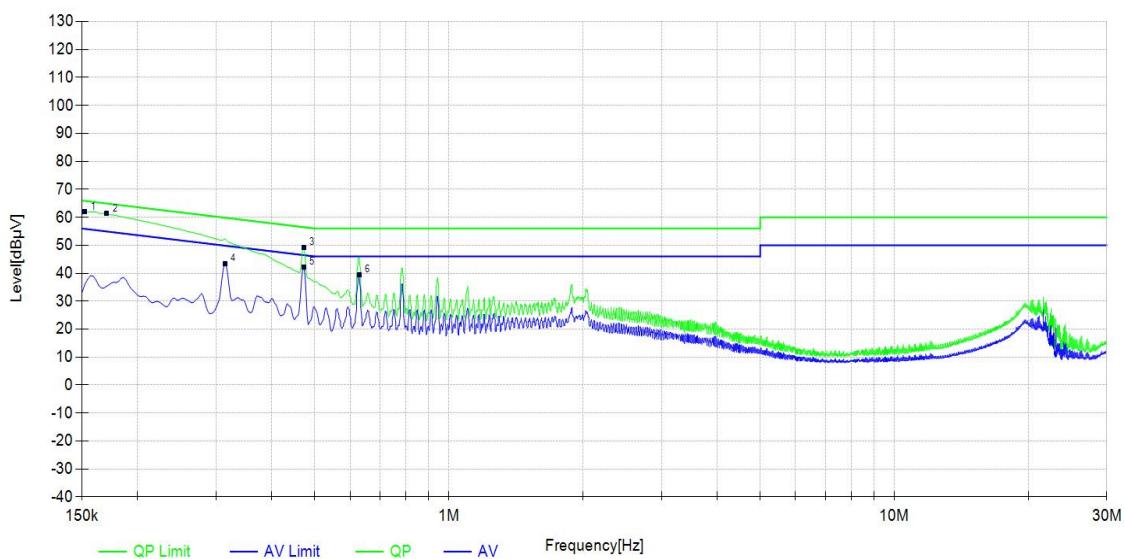
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ .  $U = 3.12$  dB.

## Test Results:

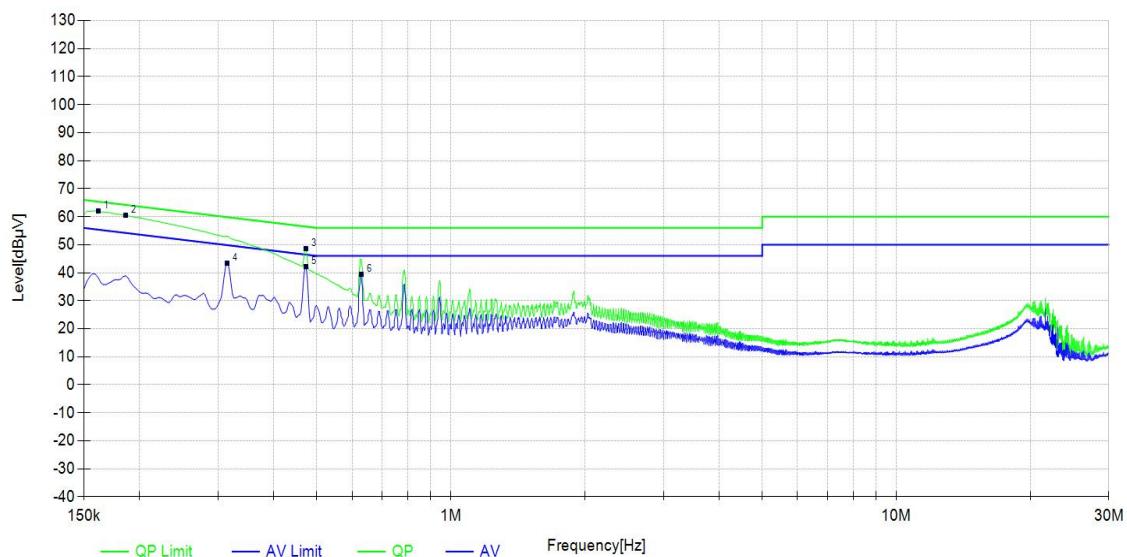
### WIFI:

During the test, the Conducted Emission from 150kHz to 30MHz was performed in all modes with all channels, and all antennas. WIFI2.4G, 11N20, Channel 1, Antenna 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Radiates Emission		150k~30MHz						
Power Line		L						
Test channel		Worst-Case						
<b>Suspected List</b>								
Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V]	Limit [dB $\mu$ V]	Margin [dB]	Detector	Type	Pass/Fail
0.15225	10.19	51.77	61.96	65.88	3.92	QP	L	PASS
0.17025	10.18	51.11	61.29	64.95	3.66	QP	L	PASS
0.47175	10.19	38.98	49.17	56.48	7.31	QP	L	PASS
0.31425	10.19	33.32	43.51	49.86	6.35	AV	L	PASS
0.47175	10.19	32.12	42.31	46.48	4.17	AV	L	PASS
0.62925	10.20	29.36	39.56	46.00	6.44	AV	L	PASS



Radiates Emission	150k~30MHz							
Power Line	N							
Test channel	Worst-Case							
<b>Suspected List</b>								
Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V]	Limit [dB $\mu$ V]	Margin [dB]	Detector	Type	Pass/Fail
0.16125	10.17	51.92	62.09	65.40	3.31	QP	N	PASS
0.186	10.17	50.29	60.46	64.21	3.75	QP	N	PASS
0.47175	10.19	38.51	48.70	56.48	7.78	QP	N	PASS
0.31425	10.19	33.27	43.46	49.86	6.40	AV	N	PASS
0.47175	10.19	32.05	42.24	46.48	4.24	AV	N	PASS
0.62925	10.20	29.32	39.52	46.00	6.48	AV	N	PASS

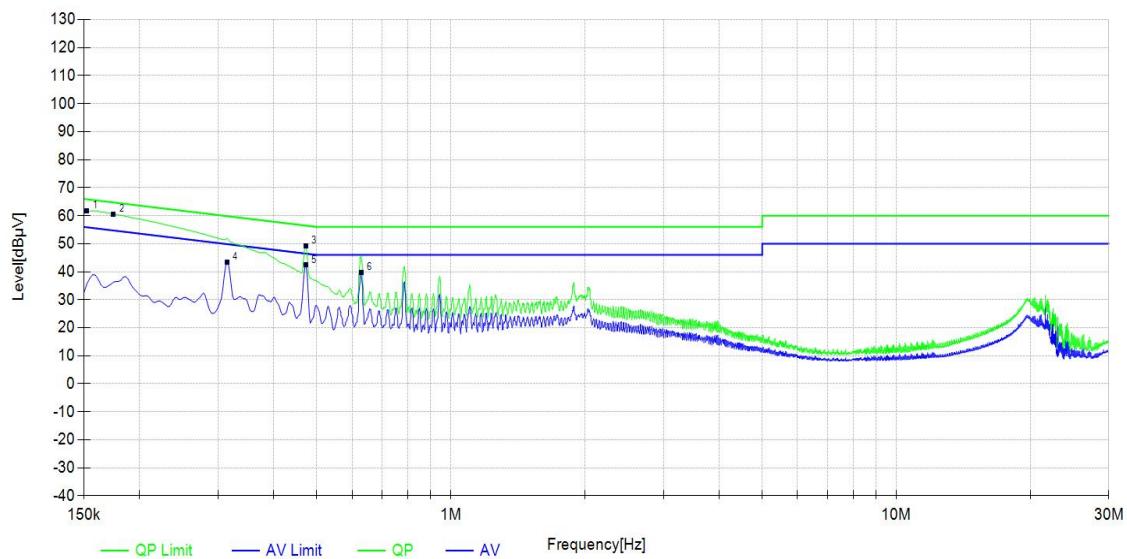


## Test Results:

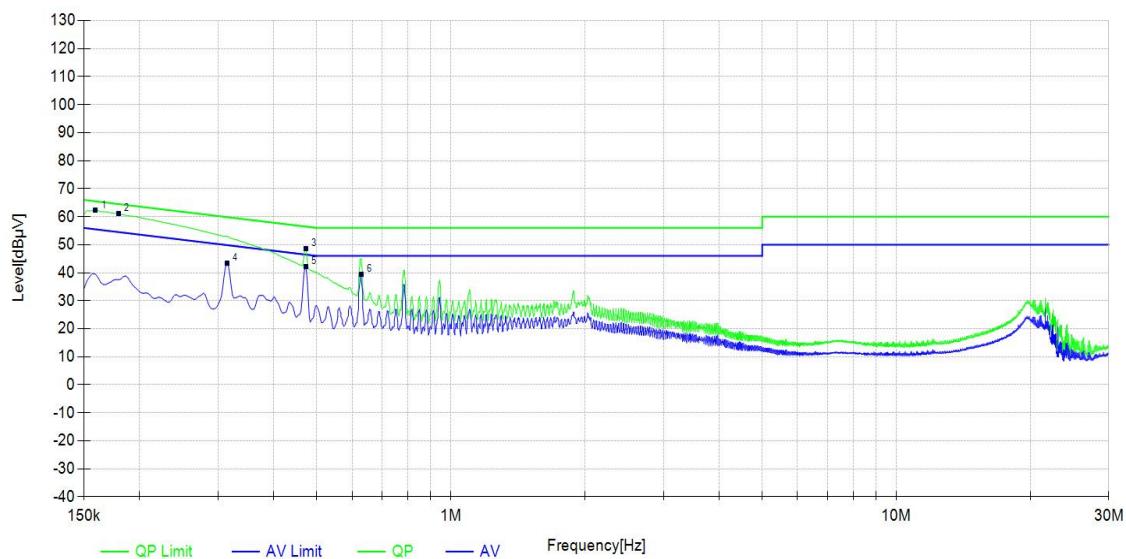
### Bluetooth(Low Energy):

During the test, the Conducted Emission from 150kHz to 30MHz was performed in all modes with all channels, and all antennas. Bluetooth(LE\_1M), Channel 0, Antenna 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Radiates Emission	150k~30MHz							
Power Line	L							
Test channel	Worst-Case							
<b>Suspected List</b>								
Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V]	Limit [dB $\mu$ V]	Margin [dB]	Detector	Type	Pass/Fail
0.15225	10.19	51.64	61.83	65.88	4.05	QP	L	PASS
0.17475	10.18	50.34	60.52	64.73	4.21	QP	L	PASS
0.47175	10.19	39.05	49.24	56.48	7.24	QP	L	PASS
0.31425	10.19	33.29	43.48	49.86	6.38	AV	L	PASS
0.47175	10.19	32.16	42.35	46.48	4.13	AV	L	PASS
0.62925	10.20	29.51	39.71	46.00	6.29	AV	L	PASS



Radiates Emission		150k~30MHz						
Power Line		N						
Test channel		Worst-Case						
<b>Suspected List</b>								
Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V]	Limit [dB $\mu$ V]	Margin [dB]	Detector	Type	Pass/Fail
0.159	10.17	52.05	62.22	65.52	3.30	QP	N	PASS
0.17925	10.17	50.92	61.09	64.52	3.43	QP	N	PASS
0.47175	10.19	38.47	48.66	56.48	7.82	QP	N	PASS
0.31425	10.19	33.27	43.46	49.86	6.40	AV	N	PASS
0.47175	10.19	31.98	42.17	46.48	4.31	AV	N	PASS
0.62925	10.20	29.22	39.42	46.00	6.58	AV	N	PASS



## 5.2 Radiated Emission

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

The EUT was setup and tested according to ANSI C63.10-2020/Cor1-2023.

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from Antenna to the EUT was 3 meters.

The Antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the Antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2020/Cor1-2023 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

The frequency range from 30MHz to 10th harmonic is checked.

Note: When doing emission measurement above 1GHz, the horn Antenna will be bended down a little (as horn Antenna has the narrow beamwidth) in order to keeping the Antenna in the “cone of radiation” of EUT.

The 3dB beamwidth is 10~60 degrees for H-plane and 10~90 degrees for E-plane.

Limits:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

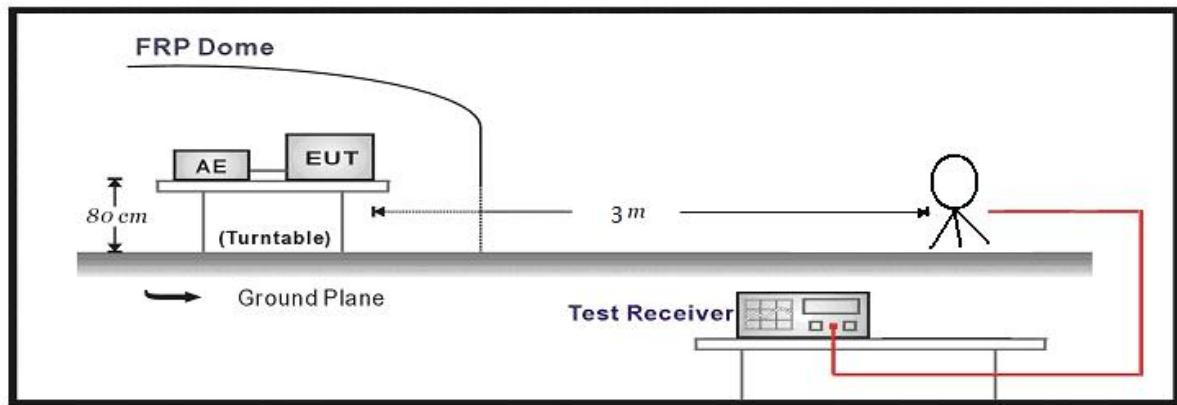
Frequency	Limit ( $\mu$ V/m )	Limit (dB $\mu$ V/m @3m)	Remark
0.009MHz-0.490MHz	2400/F(kHz)@300m	20lg(24000000/F(kHz))	Quasi-peak Level
0.490MHz~1.705MHz	24000/F(kHz)@30m	20lg(2400000/F(kHz))	Quasi-peak Level
1.705MHz~30.0MHz	30@30m	69.54	Quasi-peak Level
30MHz-88MHz	100@3m	40.0	Quasi-peak Level
88MHz-216MHz	150@3m	43.5	Quasi-peak Level
216MHz-960MHz	200@3m	46.0	Quasi-peak Level
960MHz-1GHz	500@3m	54.0	Quasi-peak Level
Above 1GHz	500@3m	54.0	Average Level
	5000@3m	74.0	Peak Level

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

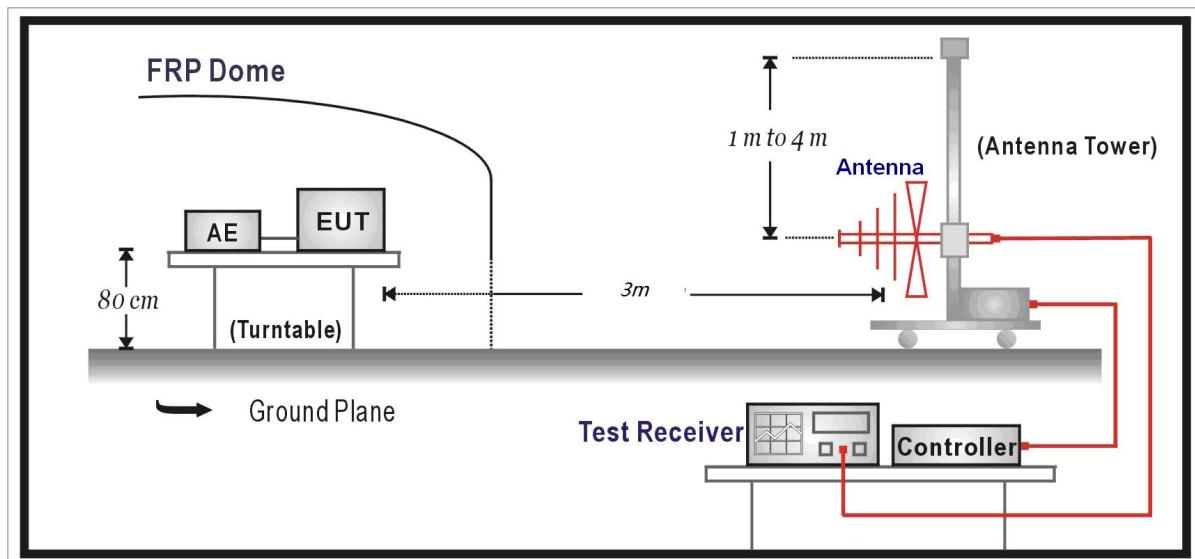
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	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.
12.57675-12.57725	322-335.4	3600-4400	/
13.36-13.41	/	/	/

## Test Setup:

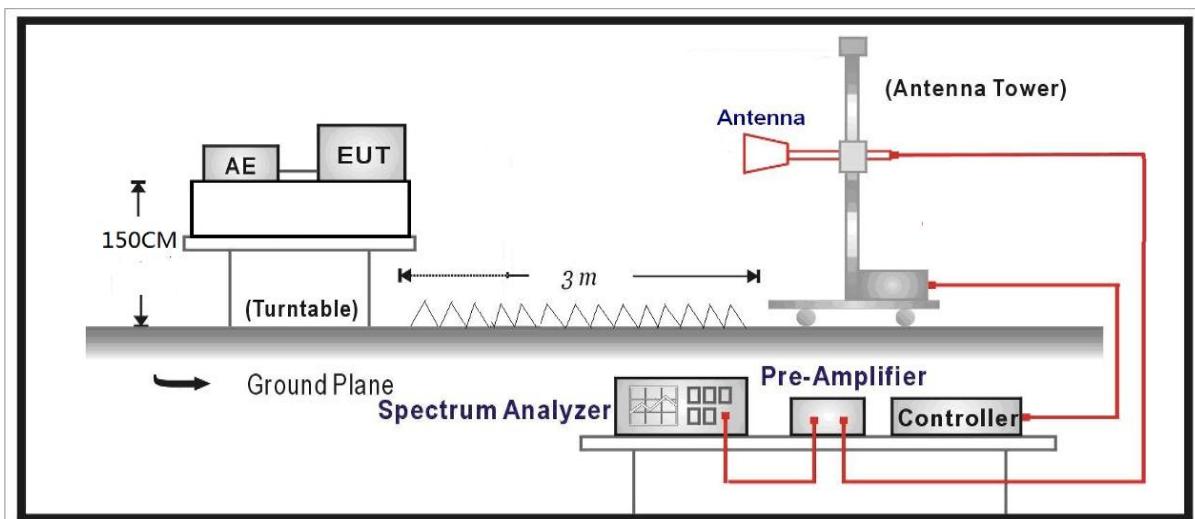
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



## Measurement Data:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Level =Reading - Factor

Factor = Preamplifier Factor – Antenna Factor–Cable Loss

## Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ .

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.19 dB
200MHz-1GHz	3.63 dB
Above 1GHz	3.68 dB

## Test Results:

### SPURIOUS EMISSIONS:

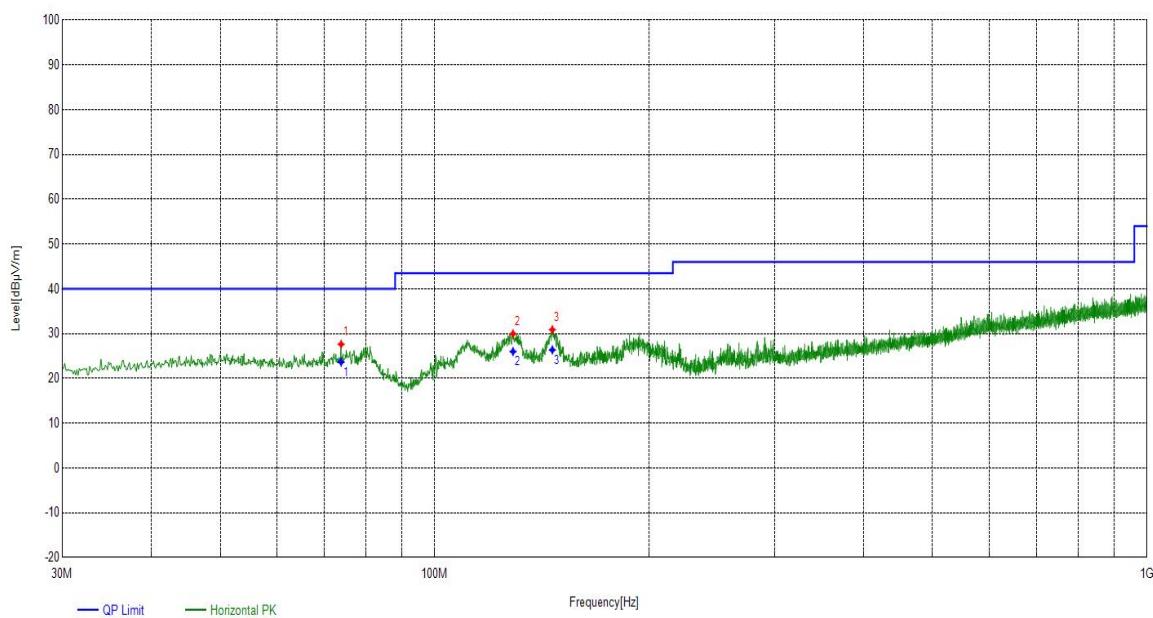
#### WIFI:

During the test, the Radiates Emission from 9kHz to 1GHz was performed in WIFI all modes with all channels and all antennas. 802.11n20, Channel 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Radiates Emission		9k~1G								
Test channel		Worst-Case								
<b>Suspected List</b>										
Frequency [MHz]	Polarity	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
73.8925	Horizontal	17.68	9.93	27.61	40.00	12.39	PK	100	270	PASS
128.8188	Horizontal	19.35	10.60	29.95	43.50	13.55	PK	100	192	PASS
146.2788	Horizontal	20.49	10.37	30.86	43.50	12.64	PK	100	17	PASS

Note: 9kHz~30MHz have been test and test data more than 20dB margin.

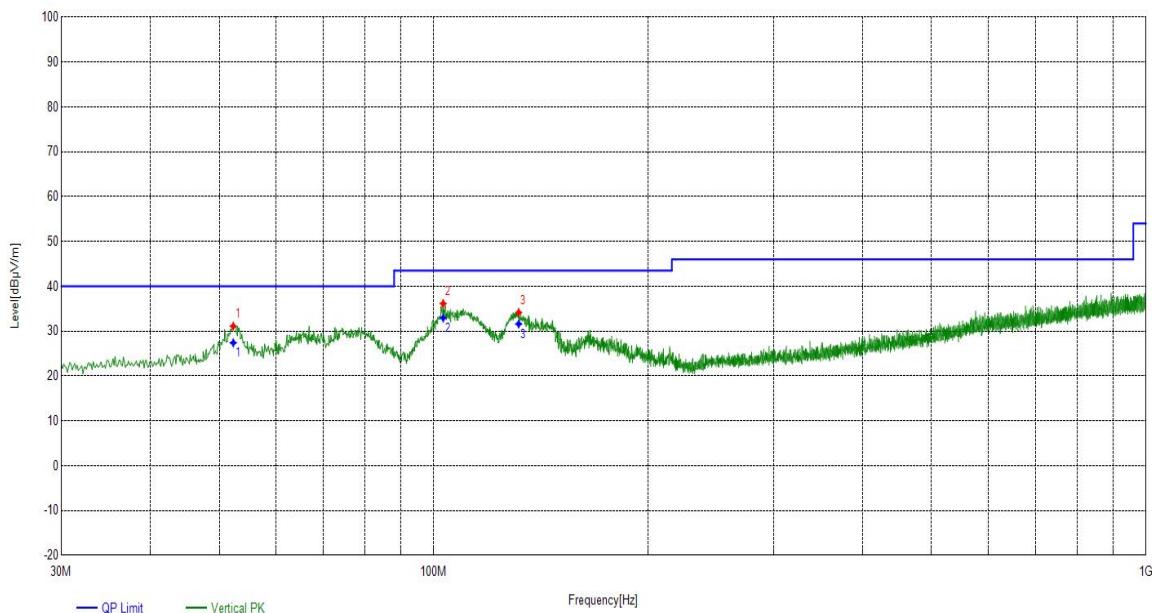
Final Data List								
Frequency [MHz]	Polarity	Factor [dB]	QP Value [dB $\mu$ V/m]	QP Limit [dB $\mu$ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
73.8925	Horizontal	17.68	23.64	40.00	16.36	105	286	PASS
128.8188	Horizontal	19.35	25.98	43.50	17.52	121	201	PASS
146.2788	Horizontal	20.49	26.35	43.50	17.15	145	23	PASS



Radiates Emission	9k~1G									
Test channel	Worst-Case									
<b>Suspected List</b>										
Frequency [MHz]	Polarity	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
52.31	Vertical	20.47	10.64	31.11	40.00	8.89	PK	100	68	PASS
103.1138	Vertical	16.37	19.76	36.13	43.50	7.37	PK	100	255	PASS
131.6075	Vertical	19.56	14.58	34.14	43.50	9.36	PK	100	228	PASS

Note: 9kHz~30MHz have been test and test data more than 20dB margin.

<b>Final Data List</b>								
Frequency [MHz]	Polarity	Factor [dB]	QP Value [dB $\mu$ V/m]	QP Limit [dB $\mu$ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
52.31	Vertical	20.47	27.38	40.00	12.62	112	128	PASS
103.1138	Vertical	16.37	32.94	43.50	10.56	131	351	PASS
131.6075	Vertical	19.56	31.59	43.50	11.91	156	264	PASS



During the test, the Radiates Emission from 1GHz to 40GHz was performed in WIFI all modes with all channels and all antennas. 802.11n20, Highest, medium, lowest channels are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Radiates Emission		Above 1G							
Test channel		Lowest							
polarization		Horizontal							
<b>Suspected List</b>									
Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
4864.686469	1.51	37.85	39.36	74.00	34.64	PK	150	290	PASS
7138.913891	8.98	34.42	43.40	74.00	30.60	PK	150	260	PASS
8699.069907	10.13	33.58	43.71	74.00	30.29	PK	150	210	PASS
4765.676568	1.08	28.31	29.39	54.00	24.61	AV	150	350	PASS
7519.951995	9.06	24.46	33.52	54.00	20.48	AV	150	350	PASS
8000.0000	9.25	24.02	33.27	54.00	20.73	AV	150	350	PASS
Radiates Emission		Above 1G							
Test channel		Lowest							
polarization		Vertical							
<b>Suspected List</b>									
Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
4255.625563	0.34	37.78	38.12	74.00	35.88	PK	150	310	PASS
5704.770477	4.33	34.66	38.99	74.00	35.01	PK	150	160	PASS
8099.009901	9.38	33.94	43.32	74.00	30.68	PK	150	140	PASS
4134.113411	0.48	28.88	29.36	54.00	24.64	AV	150	190	PASS
6039.30393	5.74	24.36	30.10	54.00	23.90	AV	150	210	PASS
7654.965497	9.13	24.58	33.71	54.00	20.29	AV	150	185	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1G								
Test channel	Medium								
polarization	Horizontal								
<b>Suspected List</b>									
Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
3549.054906	-0.27	38.62	38.35	74.00	35.65	PK	150	230	PASS
5334.233423	3.08	36.21	39.29	74.00	34.71	PK	150	30	PASS
7879.987999	9.23	33.66	42.89	74.00	31.11	PK	150	140	PASS
3889.588959	0.33	28.60	28.93	54.00	25.07	AV	150	350	PASS
5754.275428	4.53	25.23	29.76	54.00	24.24	AV	150	350	PASS
7119.411941	8.98	23.77	32.75	54.00	21.25	AV	150	350	PASS
Radiates Emission	Above 1G								
Test channel	Medium								
polarization	Vertical								
<b>Suspected List</b>									
Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
4405.640564	0.03	38.81	38.84	74.00	35.16	PK	150	50	PASS
5733.273327	4.45	34.04	38.49	74.00	35.51	PK	150	230	PASS
7441.944194	9.01	33.98	42.99	74.00	31.01	PK	150	200	PASS
4548.154816	0.13	27.87	28.00	54.00	26.00	AV	150	185	PASS
5670.267027	4.18	25.42	29.60	54.00	24.40	AV	150	198	PASS
7728.472847	9.18	24.24	33.42	54.00	20.58	AV	150	215	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1G							
Test channel	Highest							
polarization	Horizontal							

### Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4651.665167	0.58	38.82	39.40	74.00	34.60	PK	150	270	PASS
5736.273627	4.46	34.87	39.33	74.00	34.67	PK	150	250	PASS
9785.178518	12.40	31.95	44.35	74.00	29.65	PK	150	60	PASS
4755.175518	1.03	29.09	30.12	54.00	23.88	AV	150	349	PASS
6037.80378	5.74	24.51	30.25	54.00	23.75	AV	150	256	PASS
8855.085509	10.20	23.85	34.05	54.00	19.95	AV	150	337	PASS

Radiates Emission	Above 1G							
Test channel	Highest							
polarization	Vertical							

### Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4902.190219	1.68	37.42	39.10	74.00	34.90	PK	150	90	PASS
6015.30153	5.71	34.74	40.45	74.00	33.55	PK	150	270	PASS
7119.411941	8.98	33.91	42.89	74.00	31.11	PK	150	140	PASS
4801.680168	1.24	28.16	29.40	54.00	24.60	AV	150	215	PASS
6072.307231	5.78	24.51	30.29	54.00	23.71	AV	150	152	PASS
7326.432643	9.00	25.38	34.38	54.00	19.62	AV	150	223	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

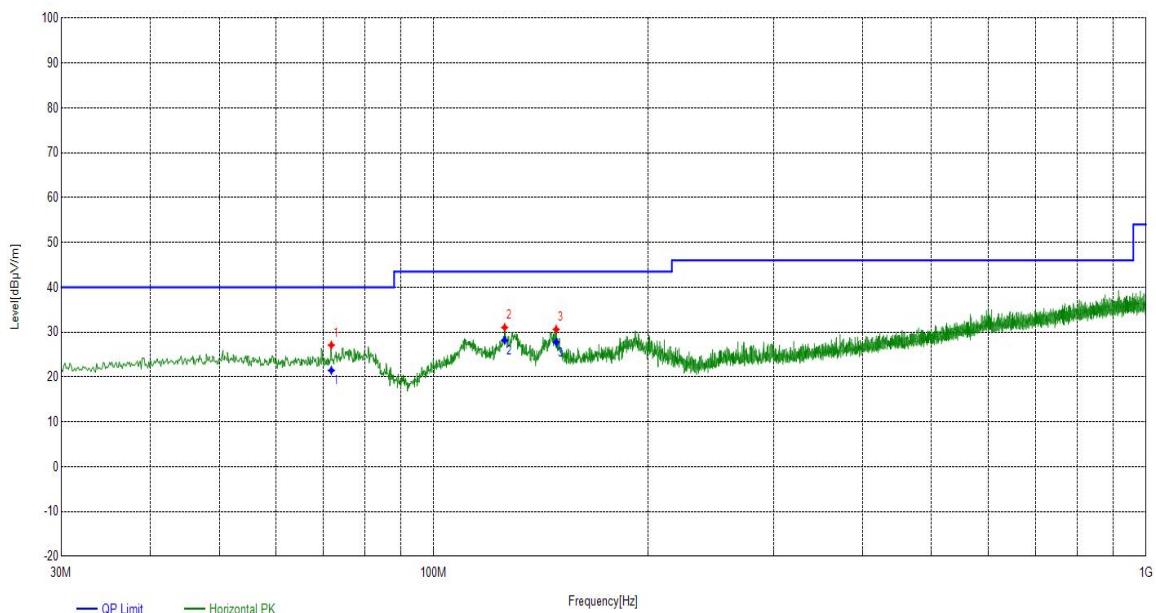
### Bluetooth(Low Energy):

During the test, the Radiates Emission from 9kHz to 40GHz was performed in Bluetooth(Low Energy) all modes with all channels and all antennas. BLE(1Mbps), channel 0, antenna 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Radiates Emission		9k~1G									
Test channel		Worst-Case									
<b>Suspected List</b>											
Frequency [MHz]	Polarity	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail	
71.8312	Horizontal	18.06	9.02	27.08	40.00	12.92	PK	100	261	PASS	
125.7875	Horizontal	19.11	11.92	31.03	43.50	12.47	PK	100	185	PASS	
148.5825	Horizontal	20.61	9.99	30.60	43.50	12.90	PK	100	356	PASS	

Note: 9kHz~30MHz have been test and test data more than 20dB margin.

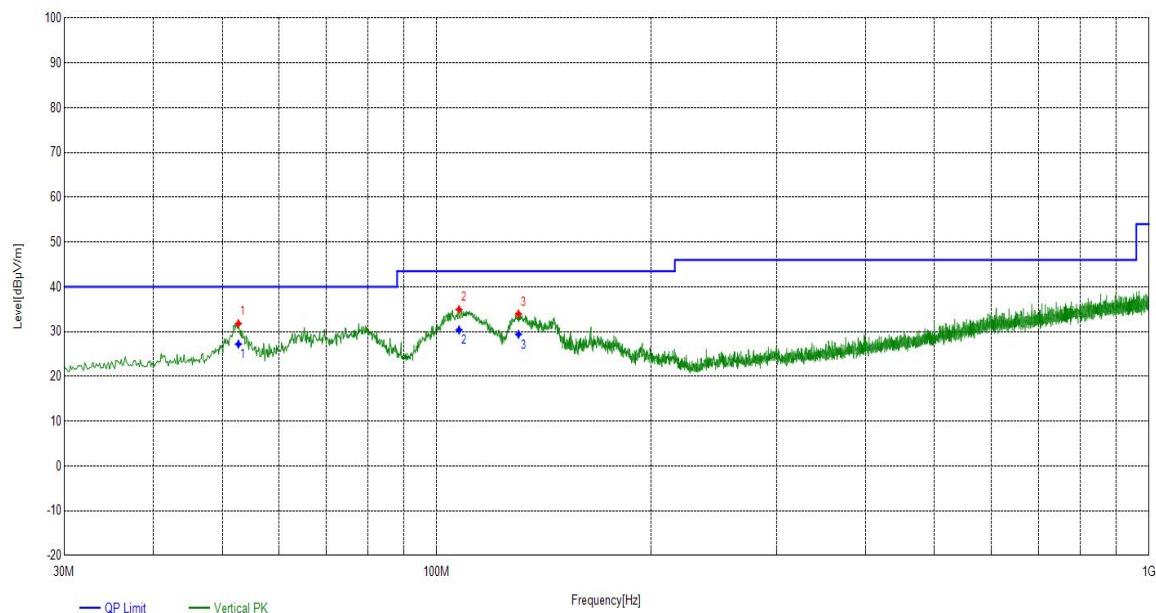
<b>Final Data List</b>								
Frequency [MHz]	Polarity	Factor [dB]	QP Value [dB $\mu$ V/m]	QP Limit [dB $\mu$ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
71.8312	Horizontal	18.06	21.45	40.00	18.55	103	252	PASS
125.7875	Horizontal	19.11	28.16	43.50	15.34	121	173	PASS
148.5825	Horizontal	20.61	27.73	43.50	15.77	129	351	PASS



Radiates Emission	9k~1G									
Test channel	Worst-Case									
<b>Suspected List</b>										
Frequency [MHz]	Polarity	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
52.6738	Vertical	20.46	11.31	31.77	40.00	8.23	PK	100	105	PASS
107.4788	Vertical	17.05	17.88	34.93	43.50	8.57	PK	100	265	PASS
130.2738	Vertical	19.47	14.48	33.95	43.50	9.55	PK	100	194	PASS

Note: 9kHz~30MHz have been test and test data more than 20dB margin.

<b>Final Data List</b>								
Frequency [MHz]	Polarity	Factor [dB]	QP Value [dB $\mu$ V/m]	QP Limit [dB $\mu$ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
52.6738	Vertical	20.46	27.20	40.00	12.80	118	135	PASS
107.4788	Vertical	17.05	30.36	43.50	13.14	122	252	PASS
130.2738	Vertical	19.47	29.38	43.50	14.12	134	186	PASS



During the test, the Radiates Emission from 1GHz to 40GHz was performed in WIFI all modes with all channels and all antennas. BLE(1Mbps), Highest, medium, lowest channels, antenna 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Radiates Emission		Above 1G							
Test channel		Lowest							
polarization		Horizontal							
<b>Suspected List</b>									
Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
4543.654365	0.12	38.13	38.25	74.00	35.75	PK	150	120	PASS
6219.321932	5.96	33.96	39.92	74.00	34.08	PK	150	300	PASS
9393.639364	11.88	32.18	44.06	74.00	29.94	PK	150	10	PASS
4513.651365	0.00	27.46	27.46	54.00	26.54	AV	150	238	PASS
6046.804681	5.75	24.39	30.14	54.00	23.86	AV	150	156	PASS
8628.562856	10.11	23.53	33.64	54.00	20.36	AV	150	321	PASS
Radiates Emission		Above 1G							
Test channel		Lowest							
polarization		Vertical							
<b>Suspected List</b>									
Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
4603.660366	0.37	37.84	38.21	74.00	35.79	PK	150	300	PASS
5782.778278	4.65	35.25	39.90	74.00	34.10	PK	150	130	PASS
7993.9994	9.25	34.58	43.83	74.00	30.17	PK	150	230	PASS
4681.668167	0.72	28.00	28.72	54.00	25.28	AV	150	89	PASS
6075.307531	5.79	24.80	30.59	54.00	23.41	AV	150	156	PASS
7942.994299	9.24	24.72	33.96	54.00	20.04	AV	150	218	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1G								
Test channel	Medium								
polarization	Horizontal								

### Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4474.647465	-0.03	38.40	38.37	74.00	35.63	PK	150	20	PASS
5470.747075	3.39	36.80	40.19	74.00	33.81	PK	150	306	PASS
8630.063006	10.11	34.12	44.23	74.00	29.77	PK	150	315	PASS
4080.108011	0.51	28.34	28.85	54.00	25.15	AV	150	267	PASS
5259.225923	2.93	25.97	28.90	54.00	25.10	AV	150	324	PASS
7611.461146	9.09	24.44	33.53	54.00	20.47	AV	150	298	PASS

Radiates Emission	Above 1G								
Test channel	Medium								
polarization	Vertical								

### Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4104.110411	0.49	37.89	38.38	74.00	35.62	PK	150	190	PASS
5263.726373	2.93	35.85	38.78	74.00	35.22	PK	150	201	PASS
8789.078908	10.14	34.04	44.18	74.00	29.82	PK	150	190	PASS
4095.109511	0.50	28.77	29.27	54.00	24.73	AV	150	120	PASS
5433.243324	3.29	26.77	30.06	54.00	23.94	AV	150	168	PASS
8168.016802	9.47	24.53	34.00	54.00	20.00	AV	150	269	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1G							
Test channel	Highest							
polarization	Horizontal							

### Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4551.155116	0.15	38.00	38.15	74.00	35.85	PK	150	160	PASS
6037.80378	5.74	34.73	40.47	74.00	33.53	PK	150	60	PASS
14482.148215	18.30	32.92	51.22	74.00	22.78	PK	150	150	PASS
4900.690069	1.66	28.13	29.79	54.00	24.21	AV	150	298	PASS
6154.815482	5.89	24.29	30.18	54.00	23.82	AV	150	316	PASS
14450.645065	18.17	23.10	41.27	54.00	12.73	AV	150	339	PASS

Radiates Emission	Above 1G							
Test channel	Highest							
polarization	Vertical							

### Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4287.128713	0.27	38.44	38.71	74.00	35.29	PK	150	310	PASS
5265.226523	2.94	36.60	39.54	74.00	34.46	PK	150	230	PASS
9012.60126	10.44	33.80	44.24	74.00	29.76	PK	150	176	PASS
4237.623762	0.36	28.79	29.15	54.00	24.85	AV	150	18	PASS
5359.735974	3.12	26.04	29.16	54.00	24.84	AV	150	156	PASS
9386.138614	11.85	22.71	34.56	54.00	19.44	AV	150	112	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

**Band Edge:**

During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas.

802.11n20 are selected as the worst condition. The test data of the worst-case condition was recorded in this report..

Test mode	802.11n20								
Test channel	Lowest channel								
polarization	Horizontal								

**Suspected List**

Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
2379.1379	32.01	8.54	40.55	74.00	33.45	PK	150	67	PASS
2390.1390	32.06	8.05	40.11	74.00	33.89	PK	150	348	PASS
2411.7408	32.12	57.83	89.95	---	---	PK	150	163	---
2378.7378	32.01	-0.25	31.76	54.00	22.24	AV	150	174	PASS
2390.1390	32.06	-0.28	31.78	54.00	22.22	AV	150	209	PASS
2411.7409	32.12	49.63	81.75	---	---	AV	150	163	---

Test mode	802.11n20								
Test channel	Lowest channel								
polarization	Vertical								

**Suspected List**

Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
2364.7364	31.96	8.02	39.98	74.00	34.02	PK	150	96	PASS
2390.1390	32.06	8.30	40.36	74.00	33.64	PK	150	311	PASS
2412.5418	32.15	53.45	85.60	---	---	PK	150	96	---
2364.7364	31.96	-1.48	30.48	54.00	23.52	AV	150	336	PASS
2390.1390	32.06	-1.28	30.78	54.00	23.22	AV	150	5	PASS
2411.3411	32.13	44.22	76.35	---	---	AV	150	108	---

Test mode	802.11n20								
Test channel	Highest channel								
polarization	Horizontal								

### Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/ Fail
2465.9467	32.33	58.88	91.21	---	---	PK	150	164	---
2483.5483	32.38	35.65	68.03	74.00	5.97	PK	150	140	PASS
2502.3502	32.46	9.71	42.17	74.00	31.83	PK	150	211	PASS
2464.5475	32.35	50.97	83.32	---	---	AV	150	164	---
2483.5483	32.38	15.85	48.23	54.00	5.77	AV	150	176	PASS
2502.3502	32.46	-0.95	31.51	54.00	22.49	AV	150	104	PASS

Test mode 802.11n20

Test channel Highest channel

polarization Vertical

### Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/ Fail
2466.5474	32.35	53.49	85.84	---	---	PK	150	84	---
2483.5483	32.38	28.65	61.03	74.00	12.97	PK	150	170	PASS
2521.9521	32.54	8.91	41.45	74.00	32.55	PK	150	122	PASS
2465.7473	32.35	43.77	76.12	---	---	AV	150	84	---
2483.5483	32.38	8.74	41.12	54.00	12.88	AV	150	292	PASS
2521.9521	32.54	-0.89	31.65	54.00	22.35	AV	150	355	PASS

During the test, the Band Edge was performed in BLE all modes with all channels and all antennas. BLE(1Mbps), Antenna 1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Test mode		BLE(1Mbps)							
Test channel		Lowest channel							
polarization		Horizontal							
<b>Suspected List</b>									
Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
2377.9377	32.01	8.64	40.65	74.00	33.35	PK	150	222	PASS
2390.1390	32.06	7.39	39.45	74.00	34.55	PK	150	92	PASS
2402.3402	32.10	72.63	104.73	---	---	PK	150	163	---
2377.9377	32.01	-0.45	31.56	54.00	22.44	AV	150	163	PASS
2390.1390	32.06	-0.63	31.43	54.00	22.57	AV	150	186	PASS
2402.1402	32.10	56.15	88.25	---	---	AV	150	186	---
Test mode		BLE(1Mbps)							
Test channel		Lowest channel							
polarization		Vertical							
<b>Suspected List</b>									
Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
2379.7379	32.01	7.73	39.74	74.00	34.26	PK	150	256	PASS
2390.1390	32.06	7.48	39.54	74.00	34.46	PK	150	77	PASS
2402.1402	32.10	68.05	100.15	---	---	PK	150	101	---
2379.7379	32.01	-1.38	30.63	54.00	23.37	AV	150	256	PASS
2390.1390	32.06	-1.65	30.41	54.00	23.59	AV	150	0	PASS
2402.3402	32.10	55.21	87.31	---	---	AV	150	171	---

Test mode	BLE(1Mbps)								
Test channel	Highest channel								
polarization	Horizontal								

### Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
2480.3480	32.37	70.77	103.14	---	---	PK	150	104	---
2483.5483	32.38	12.22	44.60	74.00	29.40	PK	150	104	PASS
2495.3495	32.42	10.82	43.24	74.00	30.76	PK	150	338	PASS
2479.9479	32.37	57.11	89.48	---	---	AV	150	359	---
2483.5483	32.38	1.32	33.70	54.00	20.30	AV	150	359	PASS
2493.3493	32.41	0.95	33.36	54.00	20.64	AV	150	34	PASS

Test mode	BLE(1Mbps)								
Test channel	Highest channel								
polarization	Vertical								

### Suspected List

Frequency [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
2479.94799	32.37	65.03	97.40	---	---	PK	150	92	---
2483.54835	32.38	8.44	40.82	74.00	33.18	PK	150	115	PASS
2491.14911	32.41	9.75	42.16	74.00	31.84	PK	150	244	PASS
2479.94799	32.37	49.02	81.39	---	---	AV	150	139	---
2483.54835	32.38	0.65	33.03	54.00	20.97	AV	150	115	PASS
2491.14911	32.41	-1.02	31.39	54.00	22.61	AV	150	348	PASS

## 5.3 Maximum conducted output power

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

a. A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor and set the detector to PEAK. Record the power level.

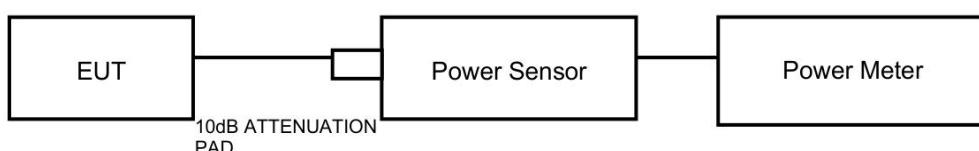
Limits:

Average Output Power	$\leq 1W$ (30dBm)
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Note: the conducted output power limit specified above is based on the use the antennas with directional gains that do not exceed 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated Levels above, as appropriate, by the amount in dB that the directional gain of antenna exceeds 6 dBi.

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 0.44$  dB.

## 5.4 Minimum 6 dB Bandwidth

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz; VBW is set to greater than 3 times RBW on spectrum analyzer.

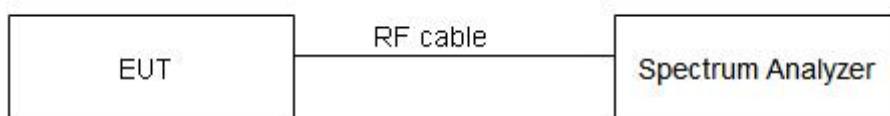
Detector=Peak, Trace mode=Max hold.

Limits:

Rule Part 15.247 (a) (2) specifies that "Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz."

Minimum 6dB Bandwidth	$\geq 500$ kHz
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Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 936$  Hz.

## 5.5 Occupied Channel Bandwidth

Ambient condition:

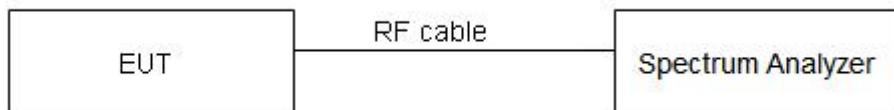
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 1% to 5% of the OBW; video bandwidth (VBW) shall be at least three times RBW on spectrum analyzer.

Detector=Peak, Trace mode=Max hold.

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 936$  Hz.

## 5.6 Band Edge Measurement

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

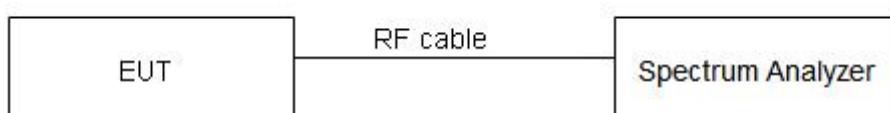
Method of Measurement:

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable the band edge of the lowest and highest channels were measured. The peak detector is used and RBW is set to 100 kHz and VBW is set to 300 kHz on spectrum analyzer.

Limits:

Rule Part 15.247(d) specifies that “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, provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ ,  $U = 936$  Hz,  $2 \text{ GHz}-3 \text{ GHz} = 1.407 \text{ dB}$ .

## 5.7 Maximum Power Spectral Density

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

### Method of Measurement:

During the process of the testing, The EUT was connected to Spectrum Analyzer with a known loss. The EUT is max power transmission with proper modulation. The Peak detector is used.

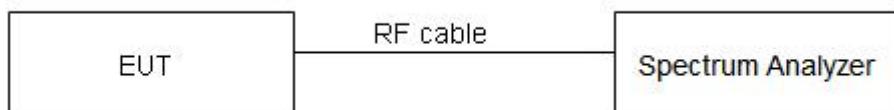
The conducted Power is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

### Limits:

Rule Part 15.247(e) specifies that" For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Maximum Power Spectral Density	$\leq 8 \text{ dBm} / 3\text{kHz}$
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### Test Setup:



### Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 0.75\text{dB}$ .

## 5.8 Spurious RF Conducted Emissions

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100kHz and VBW to 300 kHz, Sweep is set to AUTO .The test is in transmitting mode.

Limits:

Rule Part 15.247(d) pacifies that "In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ .

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

## 6. Appendix X

Test Equipment	Type/Mode	SERIAL NO.	Equipment No.	Manufacturer	Cal. Due
Communication Shielded Room 2	4m*3m*3m	CRTDSWKS44301	/	CRT	2027/04/22
Spectrum Analyzer	FSV40	101580	DZ-000238-3	R&S	2026/03/27
Power Meter	JS0806-2	19H9080187	DZ-000241	Tonscend	2026/03/27
Programmable DC Power Supply	E3644A	MY58036222	DZ-000178	KEYSIG HT	2026/04/10
5m Semi-Anechoic Chamber	SAC-5	SAC-5-2.0	EM-000557	COMTES T	2027/02/01
Spectrum Analyzer	N9010B	MY57470323	DZ-000174	KEYSIG HT	2026/01/01
EMI Test Receiver	N9038A-508	MY532290079	EM-000397	Agilent	2025/12/26
EMI Test Receiver	ESR7	102235	EM-000574	R&S	2026/01/05
loop antenna	HLA 6121	540046	EM-000546	TESEQ	2026/06/02
Broadband Antenna	VULB 9163	9163-530	EM-000342	SCHWAR ZBECK	2026/06/02
Waveguide Horn Antenna	HF906	360306/008	EM-000093	R&S	2025/12/26
Waveguide Horn Antenna	BBHA9170	00949	DZ-000209-2	SCHWAR ZBECK	2025/08/03
Preamplifier	BBV 9721	9721-050	DZ-000209-1	SCHWAR ZBECK	2026/06/02
Bandstop Filters	SW-BSF-2400-100-7-A1	/	EM-000495	/	2025/08/29
5.8GHz band resistance	ZBSF6-C5725-5850-1627	1232740	DZ-000399-2	Tonscend	2026/05/29
Temperature and humidity meter	MHO-C201	/	DZ-000249-2	Seconds test	2025/07/28
Temperature and humidity meter	MHO-C201	/	DZ-000249-5	Seconds test	2025/07/28

Dynacomm	Software Release	Software Developer
TS1120-3 Test System(Conduction test)	3.3.38	Tonscend
TS+ (5m,Radiation test)	JS32-RE 5.0.0	Tonscend

— No Body Text Below —

## Important

1. The test report is invalid without the official stamp of CVC;
2. Any part photocopies of the test report are forbidden without the written permission from CVC;
3. The test report is invalid without the signatures of Author and Reviewer;
4. The test report is invalid if altered;
5. Objections to the test report must be submitted to CVC within 15 days;
6. Generally, commission test is responsible for the tested samples only;
7. As for the test result, “—” or “N/A” means “not applicable”, “/” means “not testing”, “P” means “pass” and “F” means “fail”.

Address: No.3,Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, China (Test location)

Post Code: 510663 Tel: 020-32293888

FAX: 020 32293889 E-mail: [office@cvc.org.cn](mailto:office@cvc.org.cn)