

DewertOKIN Technology Group Co., Ltd.

RF TEST REPORT

Report Type:

FCC Part 15.249 & ISED RSS-210 RF report

Model:

FP2602

REPORT NUMBER:

240500405SHA-001

ISSUE DATE:

June 20, 2024

DOCUMENT CONTROL NUMBER:

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Applicant: DewertOKIN Technology Group Co., Ltd.
No.1507, Taoyuan Road, Gaozhao Street, Xiuzhou District, Jiaxing City,
Zhejiang Province, China

Manufacturer: Shanghai Xiaojia Data & Technology Co.,LTD
No.1507, Taoyuan Road, Gaozhao Street, Xiuzhou District, Jiaxing City,
Zhejiang Province, China

Product Name (PMN): Sleep Control Box

Type/Model (HVIN): FP2602

FCC ID: 2AVJ8-FP2602

IC: 25804-FP2602

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

47CFR Part 15 (2023): Radio Frequency Devices (Subpart C)


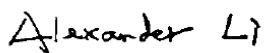
ANSI C63.10 (2020): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

RSS-210 Issue 10 (April 2020) Amendment 1: Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment

RSS-Gen Issue 5 (February 2021) Amendment 2: General Requirements for Compliance of Radio Apparatus

PREPARED BY:

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TEST REPORT

Content

REVISION HISTORY	4
MEASUREMENT RESULT SUMMARY	5
1 GENERAL INFORMATION	6
1.1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	6
1.2 TECHNICAL SPECIFICATION.....	6
1.3 DESCRIPTION OF TEST FACILITY.....	7
2 TEST SPECIFICATIONS	8
2.1 STANDARDS OR SPECIFICATION	8
2.2 MODE OF OPERATION DURING THE TEST	8
2.3 TEST SOFTWARE LIST	9
2.4 TEST PERIPHERALS LIST.....	9
2.5 TEST ENVIRONMENT CONDITION:.....	9
2.6 INSTRUMENT LIST	10
2.7 MEASUREMENT UNCERTAINTY.....	11
3 RADIATED EMISSION	12
3.1 LIMIT	12
3.2 MEASUREMENT PROCEDURE	12
3.3 TEST CONFIGURATION	14
3.4 TEST RESULTS OF RADIATED EMISSIONS	16
4 POWER LINE CONDUCTED EMISSION	19
4.1 LIMIT	19
4.2 TEST CONFIGURATION	19
4.3 MEASUREMENT PROCEDURE	20
4.4 TEST RESULTS OF POWER LINE CONDUCTED EMISSION.....	21
5 ASSIGNED BANDWIDTH (20DB BANDWIDTH & 99% BANDWIDTH)	23
5.1 LIMIT	23
5.2 MEASUREMENT PROCEDURE	23
5.3 TEST CONFIGURATION	23
5.4 THE RESULTS.....	24
6 ANTENNA REQUIREMENT	26

Revision History

Report No.	Version	Description	Issued Date
240500405SHA-001	Rev. 01	Initial issue of report	June 20, 2024

Measurement result summary

TEST ITEM	FCC REFERANCE	IC REFERANCE	RESULT
The field strength of fundamental	15.249 (a)	RSS-210 Annex B B.10	Pass
Radiated Emissions in restricted frequency bands	15.249 (d) 15.205&15.209	RSS-210 Annex B B.10 & RSS-Gen Clause 8.8	Pass
Power line conducted emission	15.207(a)	RSS-Gen Clause 8.8	Pass
Assigned Bandwidth (20dB bandwidth & 99% bandwidth)	15.215(c)	RSS-Gen Clause 6.7	Pass
Antenna requirement	15.203	RSS-Gen Clause 6.8	Pass

Notes:

- 1: NA =Not Applicable
- 2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.
- 3: Additions, Deviations and Exclusions from Standards: None.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Sleep Control Box
Type/Model:	FP2602
Description of EUT:	The appliances covered by this report is sleep control box with Bluetooth function.
Brand Name:	/
Rating:	DC 29V
Category of EUT:	Class B
EUT type:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	April 2, 2024
Date of test:	April 2, 2024– May 23, 2024

1.2 Technical Specification

Frequency Range:	2400MHz ~ 2483.5MHz
Support Standards:	Bluetooth LE
Type of Modulation:	GFSK
Channel Number:	40
Data Rate:	1Mbps
Channel Separation:	2 MHz
Antenna Information:	PCB antenna, 1.225dBi Peak gain

TEST REPORT

1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

TEST REPORT

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2023)
 ANSI C63.10 (2020)
 RSS-210 Issue 10 (April 2020)
 RSS-Gen Issue 5 (February 2021)

2.2 Mode of operation during the test

The lowest, middle and highest channel were tested as representatives.

Frequency Band (MHz)				2402 ~ 2480			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

The test setting method is offered by the manufactory. The pre-scan for the conducted power with all rates in each modulation and bands was used, and the worst case was found and used in all test cases.

Test software and Power Setting parameter			
Test Software	/		
Working Mode	BLE_1M		
Test Channel	2402MHz	2440MHz	2480MHz
Power Setting	Default	Default	Default

While testing transmitting mode of EUT, the internal modulation and continuously transmission was applied.

- 1) Radiated test mode: EUT transmitted signal with BT antenna;
- 2) Conducted test mode: EUT transmitted signal from BT RF port connected to SPA directly;

2.3 Test software list

Test Items	Software	Manufacturer	Version
Radiated emission	SKET Auto EMC Test Software	Keleto	V3.0
Conducted emission	SKET Auto EMC Test Software	Keleto	V3.0

2.4 Test peripherals list

Item No.	Name	Band and Model	Description
1	AC/DC Switching Power Supply	DewertOKIN, DOT-B-290018A	--
2	CONTROL BOX	DewertOKIN, CB1542	--

2.5 Test environment condition:

Test items	Temperature	Humidity
Radiated emission	21°C	53% RH
Assigned bandwidth (20dB bandwidth)	22°C	54% RH
Power line conducted emission	22°C	55% RH

TEST REPORT

2.6 Instrument list

Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESR7	EC 6194	2025-02-27
<input checked="" type="checkbox"/>	A.M.N.	R&S	ESH2-Z5	EC 3119	2024-11-19
<input checked="" type="checkbox"/>	Attenuator	Hua Xiang	Ts5-10db-6g	EC 6194-1	2024-12-07
<input checked="" type="checkbox"/>	Shielded room	Zhongyu	-	EC 2838	2025-01-11
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESIB 26	EC 3045	2024-08-22
<input checked="" type="checkbox"/>	Active loop antenna	Schwarzbeck	FMZB1519	EC 5345	2024-09-24
<input checked="" type="checkbox"/>	Bilog Antenna	TESEQ	CBL 6112B	EC 6411	2024-09-12
<input checked="" type="checkbox"/>	Pre-amplifier	Tonscend	tap01018050	EC 6432-1	2024-12-07
<input checked="" type="checkbox"/>	Horn antenna	Tonscend	bha9120d	EC 6432-2	2025-02-15
<input checked="" type="checkbox"/>	Horn antenna	TOYO	HAP18-26W	EC 4792-3	2026-09-12
<input type="checkbox"/>	Horn antenna	ETS	3116c	EC 5955	2024-07-22
<input checked="" type="checkbox"/>	Semi-anechoic chamber	Albatross project	-	EC 3048	2025-01-11
RF test					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input type="checkbox"/>	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2025-03-07
<input type="checkbox"/>	Vector Signal Generator	Agilent	N5182B	EC 5175	2025-03-07
<input type="checkbox"/>	Universal Radio Communication Tester	R&S	CMW500	EC5944	2025-03-07
<input type="checkbox"/>	MXG Analog Signal Generator	Agilent	N5181A	EC 5338-2	2025-03-07
<input type="checkbox"/>	Mobile Test System	Litepoint	lqxel	EC 5176	2025-01-11
<input type="checkbox"/>	Test Receiver	R&S	ESCI 7	EC 4501	2025-03-09
<input type="checkbox"/>	Climate chamber	GWS	MT3065	EC 6021	2025-03-06
<input checked="" type="checkbox"/>	Spectrum Analyzer	Keysight	N9030B	EC 6078	2024-06-15
<input type="checkbox"/>	Universal Radio Communication Tester	R&S	CMW500	EC 6209	2025-01-30
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Thermo-Hygrograph	Testo	175h1	EC 6640	2024-08-28
<input checked="" type="checkbox"/>	Thermo-Hygrograph	Testo	175h1	EC 6641	2024-08-28
<input checked="" type="checkbox"/>	Pressure meter	YM3	Shanghai Mengde	EC 4620	2024-08-16

2.7 Measurement uncertainty

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Measurement uncertainty
Maximum peak output power	± 0.74dB
Power spectrum density	± 0.74dB
Radiated Emissions in restricted frequency bands below 1GHz	± 4.90dB
Radiated Emissions in restricted frequency bands above 1GHz	± 5.02dB
Emission outside the frequency band	± 2.89dB
Power line conducted emission	± 3.19dB
Occupied bandwidth	± 0.84 × 10 ⁻⁷

TEST REPORT

3 Radiated emission

Test result: Pass

3.1 Limit

Fundamental Frequency (MHz)	Fundamental limit (dBuV/m)	Harmonic limit (dBuV/m)
<input type="checkbox"/> 902 - 928	94	54
<input checked="" type="checkbox"/> 2400 - 2483.5	94	54
<input type="checkbox"/> 5725 - 5875	94	54
<input type="checkbox"/> 24000 - 24250	108	68

The radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
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

3.2 Measurement Procedure

For Radiated emission below 30MHz:

- a) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c) Both X and Y axes of the antenna are set to make the measurement.
- d) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e) The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

TEST REPORT**For Radiated emission above 30MHz:**

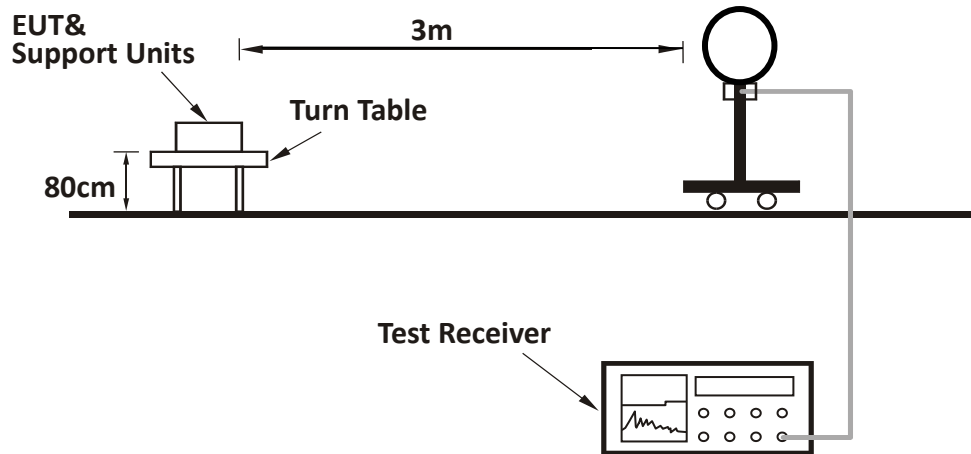
- a) The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c) 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.
- d) 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.
- e) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

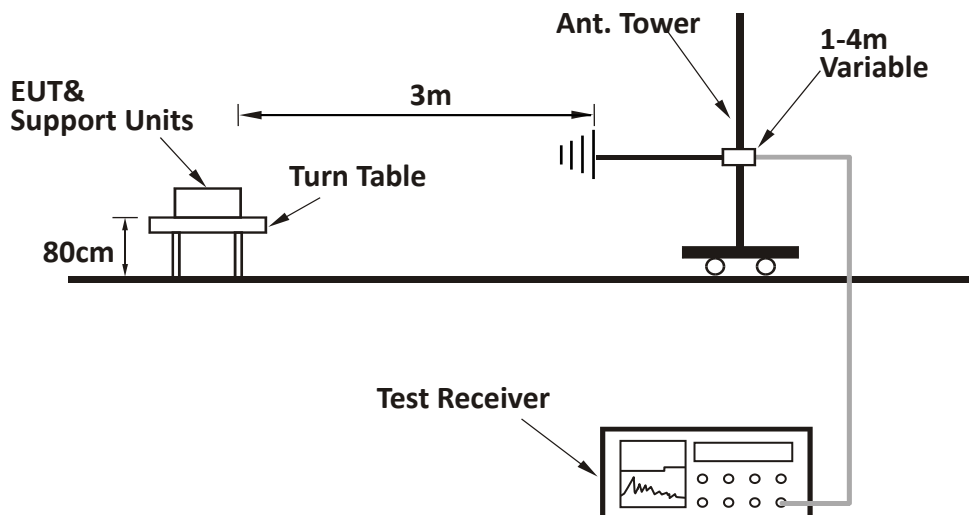
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or $3 \times \text{RBW}$ (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported

3.3 Test Configuration

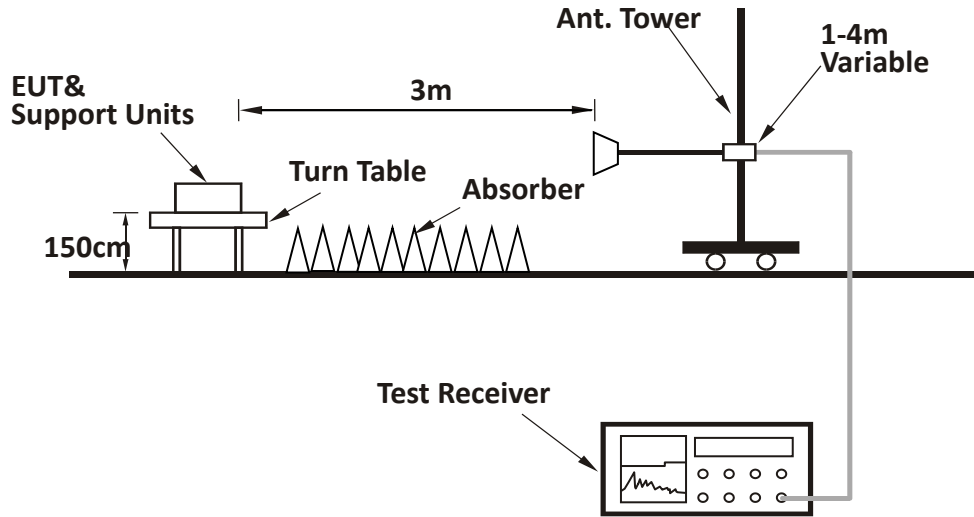
For Radiated emission below 30MHz:



For Radiated emission 30MHz to 1GHz:



For Radiated emission above 1GHz:

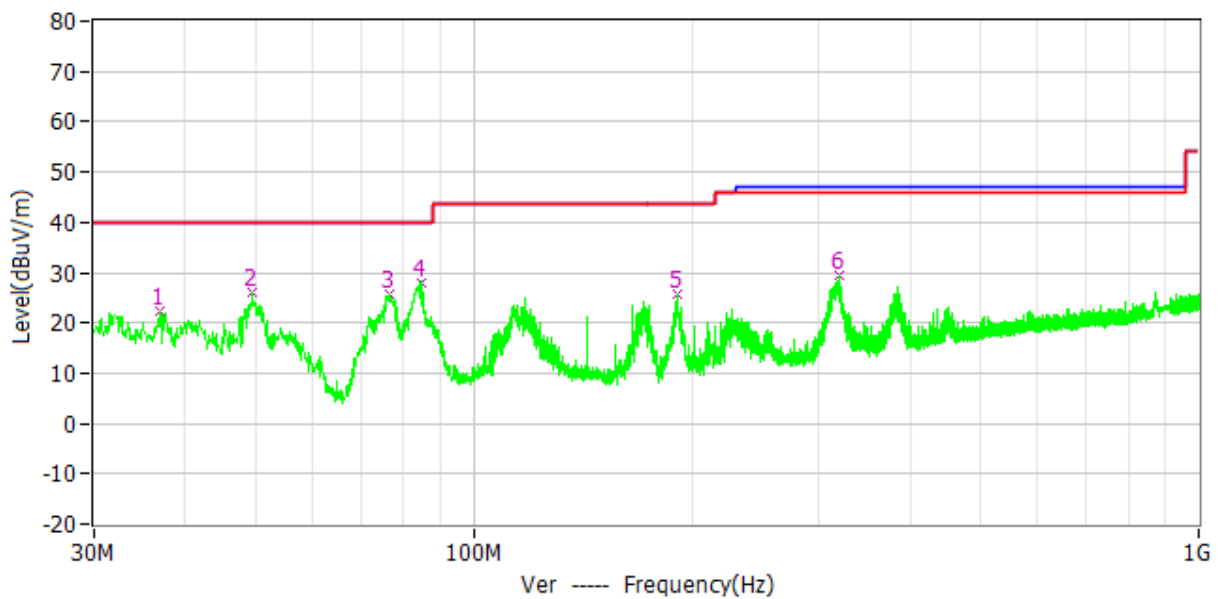
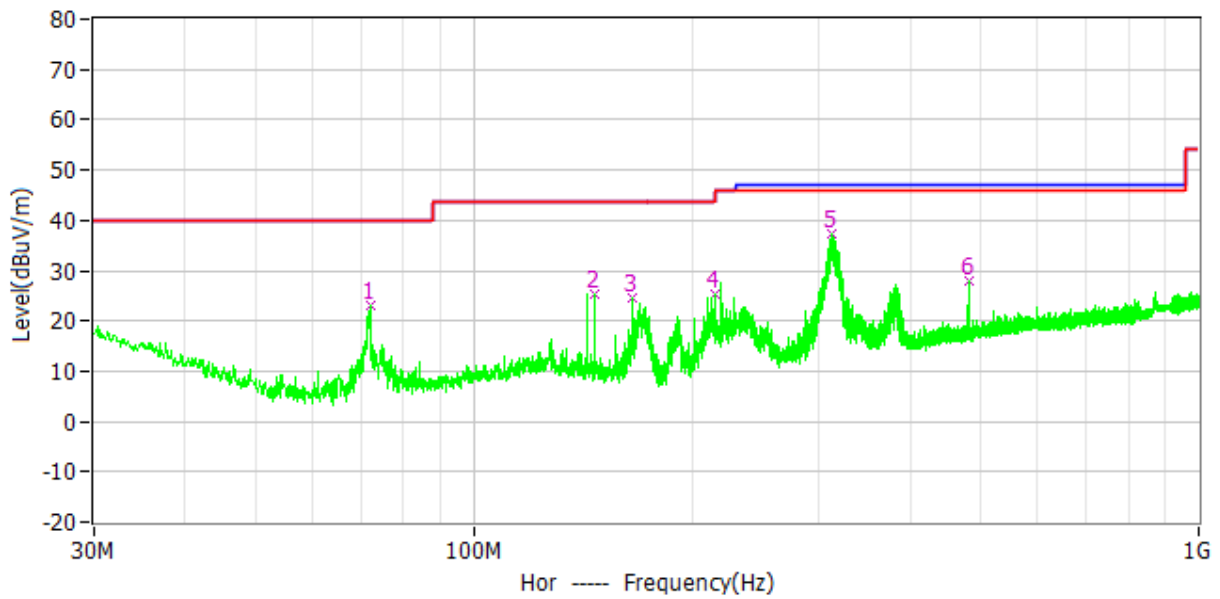


TEST REPORT

3.4 Test Results of Radiated Emissions

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.

The worst waveform from 30MHz to 1000MHz is listed as below:



TEST REPORT

Test data below 1GHz:

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	72.00	23.0	7.6	40.0	17.0	PK
H	146.69	25.5	12.2	43.5	18.0	PK
H	165.99	24.6	11.2	43.5	18.9	PK
H	215.17	25.3	10.9	43.5	18.2	PK
H	311.30	37.2	15.5	46.0	8.8	PK
H	481.14	28.1	19.6	46.0	17.9	PK
V	37.08	22.2	15.9	40.0	17.8	PK
V	49.59	25.9	9.5	40.0	14.1	PK
V	76.56	25.8	8.0	40.0	14.2	PK
V	84.81	28.1	9.2	40.0	11.9	PK
V	191.21	25.6	10.8	43.5	17.9	PK
V	318.77	29.5	15.7	46.0	16.5	PK

Test result above 1GHz:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	2402.00	89.4	31.7	114.00	24.6	PK
	V	2402.00	83.6	31.7	114.00	30.4	PK
	H	2400.00	50.1	31.7	74.00	23.9	PK
	V	2400.00	45.3	31.7	74.00	28.7	PK
	H	7206.00	53.9	-9.30	74.00	20.1	PK
	V	7206.00	59.1	-9.30	74.00	14.9	PK
	V	7206.00	32.8	-9.30	54.00	21.2	AV
	H	9608.00	53.4	-4.70	74.00	20.6	PK
	V	9608.00	52.4	-4.70	74.00	21.6	PK
M	H	2440.00	90.3	31.8	114.00	23.7	PK
	V	2440.00	82.1	31.8	114.00	31.9	PK
	H	7320.00	54.6	-8.80	74.00	19.4	PK
	H	7320.00	32.1	-8.80	54.00	21.9	AV
	V	7320.00	57.9	-8.80	74.00	16.1	PK

TEST REPORT

	V	7320.00	33.5	-8.80	54.00	20.5	AV
	H	9760.00	53.2	-4.50	74.00	20.8	PK
	V	9760.00	52.6	-4.50	74.00	21.4	PK
H	H	2480.00	92.6	31.9	114.00	21.4	PK
	V	2480.00	84.6	31.9	114.00	29.4	PK
	H	2483.50	52.3	31.9	74.00	21.7	PK
	V	2483.50	49.4	31.9	74.00	24.6	PK
	H	7440.00	53.3	-8.50	74.00	20.7	PK
	V	7440.00	57.8	-8.50	74.00	16.2	PK
	V	7440.00	33.8	-8.50	54.00	20.2	AV
	H	9920.00	49.4	-4.40	74.00	24.6	PK
	V	9920.00	48.9	-4.40	74.00	25.1	PK

- Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
 2. Corrected Reading = Original Receiver Reading + Correct Factor
 3. Margin = Limit - Corrected Reading
 4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,
 Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV,
 Limit = 40.00dBuV/m.
 Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m;
 Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m;
 Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB.

4 Power line conducted emission

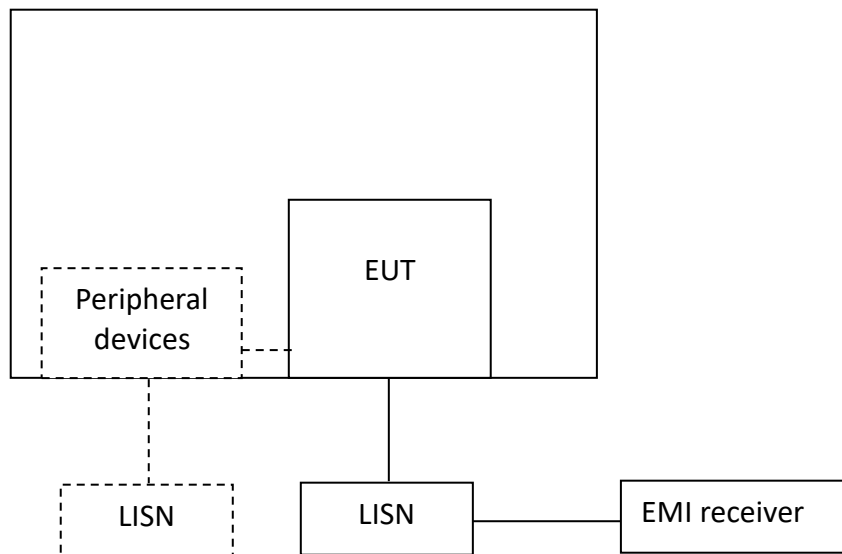
Test result: Pass

4.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	QP	AV
0.15-0.5	66 to 56*	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

4.2 Test Configuration



TEST REPORT**4.3 Measurement Procedure**

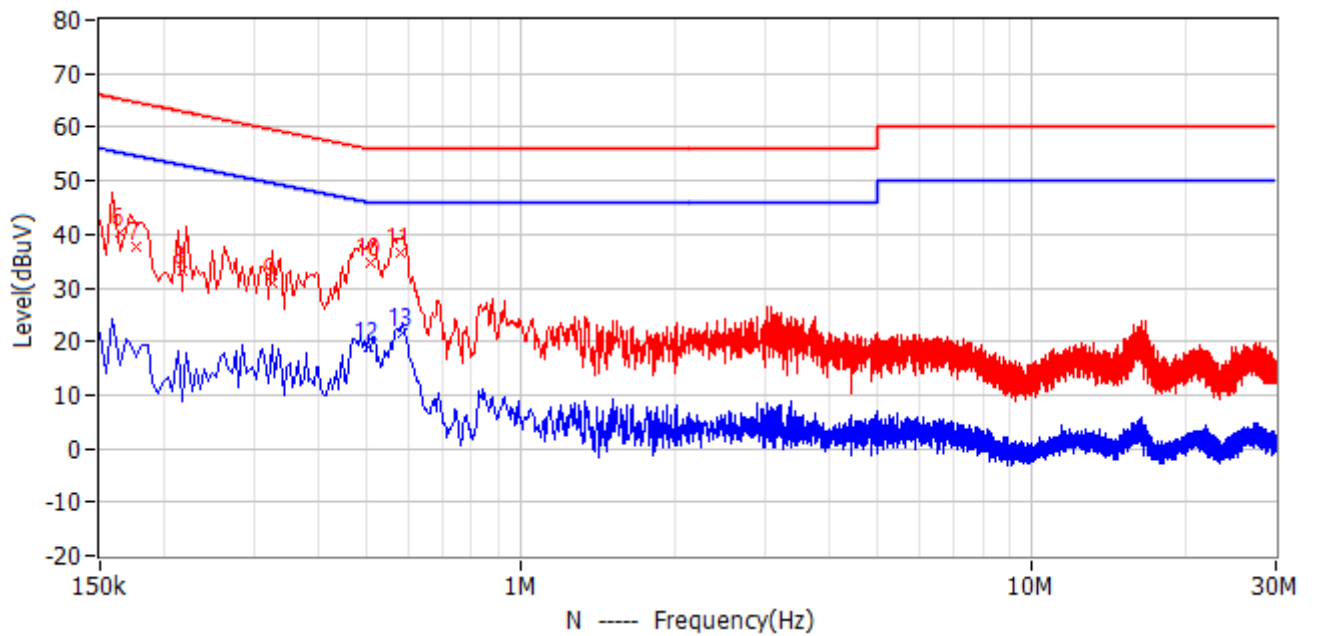
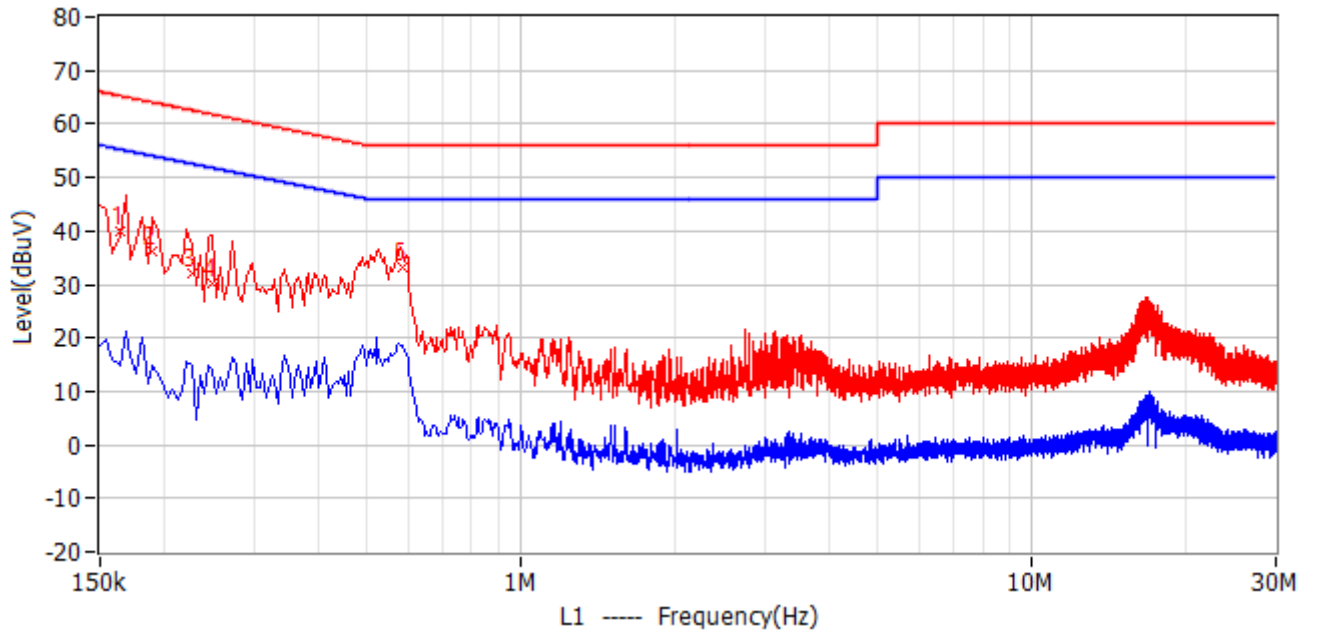
Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.

4.4 Test Results of Power line conducted emission

Test Curve:



TEST REPORT

No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector	Phase
1	163.500kHz	65.3	39.9	-25.4	33.7	6.2	QP	L1
2	190.500kHz	64.0	36.1	-27.9	29.9	6.2	QP	L1
3	226.500kHz	62.6	32.1	-30.5	25.9	6.2	QP	L1
4	249.000kHz	61.8	30.2	-31.6	24.0	6.2	QP	L1
5	586.500kHz	56.0	33.3	-22.7	27.1	6.2	QP	L1
6	163.500kHz	65.3	40.2	-25.1	34.1	6.1	QP	N
7	177.000kHz	64.6	37.5	-27.1	31.4	6.1	QP	N
8	217.500kHz	62.9	33.0	-29.9	26.8	6.2	QP	N
9	325.500kHz	59.6	31.1	-28.5	24.9	6.2	QP	N
10	505.500kHz	56.0	34.6	-21.4	28.4	6.2	QP	N
11	582.000kHz	56.0	36.6	-19.4	30.4	6.2	QP	N
12	501.000kHz	46.0	19.1	-26.9	12.9	6.2	CAV	N
13	586.500kHz	46.0	21.4	-24.6	15.2	6.2	CAV	N

- Remark: 1. Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.
 2. Level = Reading value + Factor
 3. Delta = level – limit
 4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

5 Assigned bandwidth (20dB bandwidth & 99% bandwidth)

Test result: Pass

5.1 Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emission is contained within the allocated frequency band.

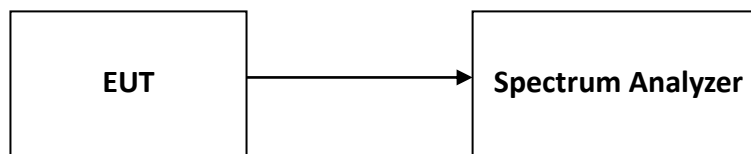
5.2 Measurement Procedure

The 20dB Bandwidth is measured using the Spectrum Analyzer.

Set Span = 2 to 3 times the 20 dB bandwidth, RBW = approximately 1% of the 20 dB bandwidth, VBW>RBW, Sweep = auto, Detector = peak, Trace = max hold.

The test was performed at 3 channels (lowest, middle and highest channel).

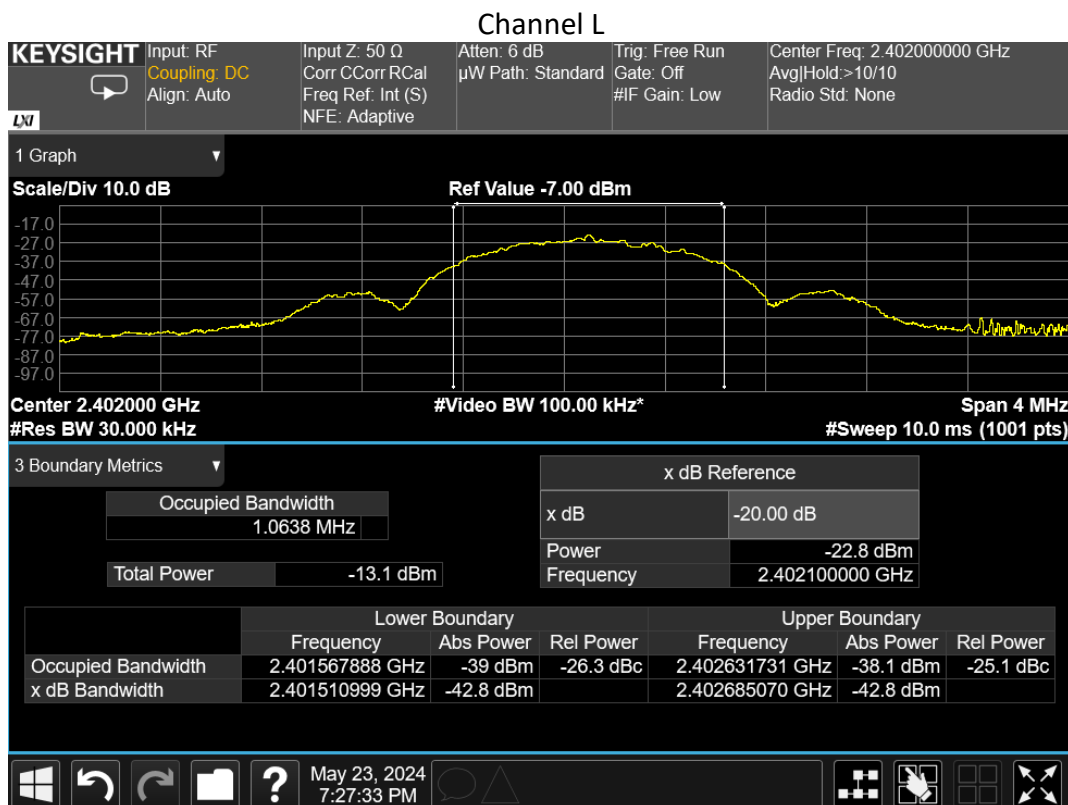
5.3 Test Configuration



TEST REPORT

5.4 The results

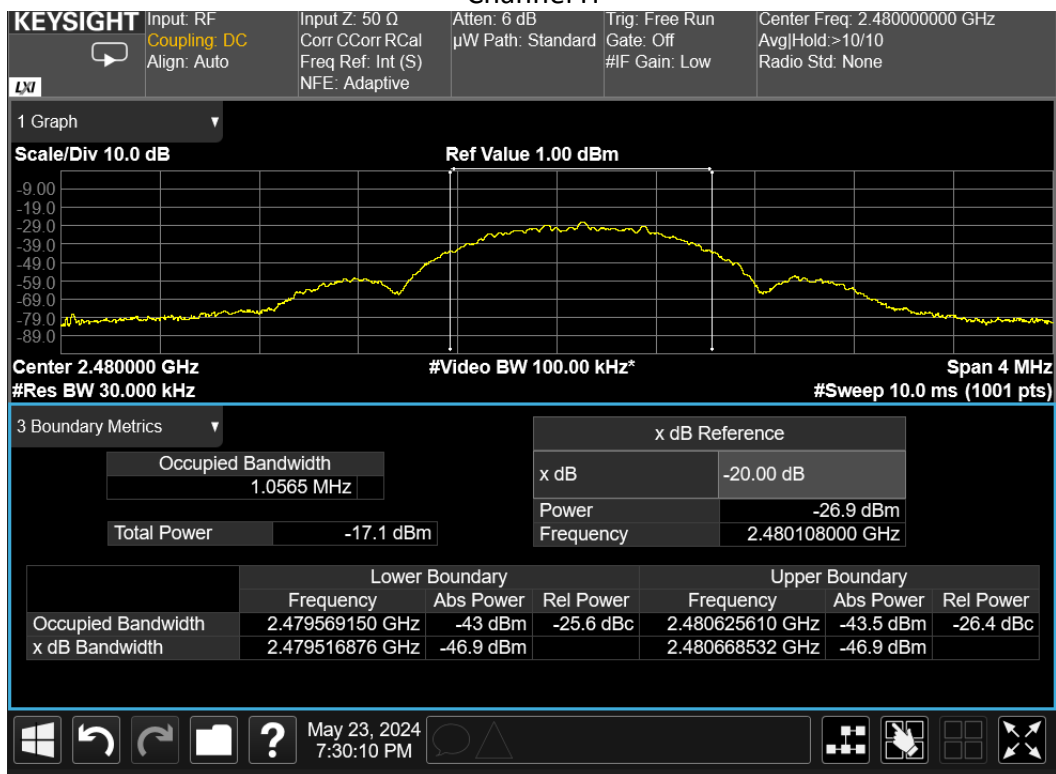
Test Mode	Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)	F _L at 20dB BW (MHz)	F _H at 20dB BW (MHz)
BLE_1M	2402	1.1741	1.0638	>2400	/
	2440	1.1779	1.0610	/	/
	2480	1.1517	1.0565	/	<2483.5
Limit		N/A	N/A	F _L >2400	F _H <2483.5
Result		Complied			



Channel M



Channel H



TEST REPORT

6 Antenna requirement

Requirement:

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.

Result:

EUT uses permanently attached antenna to the intentional radiator, so it can comply with the provisions of this section.

***** END *****