Test Report

Applicant	:	Shenzhen SonoCycle Technology Co., Ltd.
Address	:	1400-1402, Building B, Gongcun Xincheng Commercial Center (Huihai Plaza), No. 31, Sanlian Chuangye Road, Sanlian Community, Longhua Street, Longhua District, Shenzhen City, Guangdong Province
Product Name	:	Wireless Headphones
Brand Mark	:	SOUNDPEATS
Model	:	POP Clip2
Series model	:	GoFree 2S, Aura Nebula, TrueStream X1, POP Clip2 Pro, POP Clip2 HS, H3, H4, Capsule5 Pro, Capsule5 Pro+, Lite30, C50, Q3 Pro, T5 Pro, Clip2, Clip2 Pro, PearlClip3 Pro, Cove Pro, Engine5, Free3 Classic, Pace, Pace Pro
FCC ID	:	2BVLM-YX001
Report Number	:	BLA-EMC-202603-A2104
Date of Receipt	:	Mar. 17, 2026
Date of Test	:	Mar. 17, 2026 to Apr. 22, 2026
Test Standard	:	47 CFR Part 15, Subpart C 15.247
Test Result	:	Pass

Compiled by: Hugh **Review by:** Xavier **Approved by:** Blue Zheng

Issued Date: Apr. 22, 2026

BlueAsia Technical Services(Shenzhen) Co., Ltd.

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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Revise Record

Version No.	Date	Description
01	Apr. 22, 2026	Original

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1 General information

1.1 General information

Applicant	Shenzhen SonoCycle Technology Co., Ltd.
Address	1400-1402, Building B, Gongcun Xincheng Commercial Center (Huihai Plaza), No. 31, Sanlian Chuangye Road, Sanlian Community, Longhua Street, Longhua District, Shenzhen City, Guangdong Province
Manufacturer	Shenzhen SonoCycle Technology Co., Ltd.
Address	1400-1402, Building B, Gongcun Xincheng Commercial Center (Huihai Plaza), No. 31, Sanlian Chuangye Road, Sanlian Community, Longhua Street, Longhua District, Shenzhen City, Guangdong Province
Factory	Dongguan Lilang Acoustic TechnologyCo., LTD
Address	Room 301, No.2 fengping Road, Sanzhong, Qingxi Town, Dongguan city, Guangdong Province

1.2 General description of EUT

Product name	Wireless Headphones
Model no.	POP Clip2
Series model	GoFree 2S, Aura Nebula, TrueStream X1, POP Clip2 Pro, POP Clip2 HS, H3, H4, Capsule5 Pro, Capsule5 Pro+, Lite30, C50, Q3 Pro, T5 Pro, Clip2, Clip2 Pro, PearlClip3 Pro, Cove Pro, Engine5, Free3 Classic, Pace, Pace Pro
Desc of series model	The above models have the same Circuit diagram, PCB layout and all electrical construction. The difference lies only model name and color.
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	Internal antenna
Antenna Gain:	0.21dBi(Provided by customer)
Power supply or adapter information	Headphones: DC3.8V by battery Base: DC3.7V by battery
Hardware version	V1
Software version	V0.2.1
Engineer sample no.	BLA-EMC-202603-A21-right

Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

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2 Test summary

No.	Test item	FCC standard	Test Method(Clause)	Result
1	Antenna Requirement	§15.203	N/A	Pass
2	Conducted Emissions at AC Power Line (150kHz-30MHz)	§15.207	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 6.2	Pass
3	Conducted Peak Output Power	§ 15.247 (b)(1)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 7.8.5	Pass
4	20dB Bandwidth	§ 15.247 (a)(1)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 6.9.2	Pass
5	Conducted Band Edges Measurement	§ 15.247 (d)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 6.10	Pass
6	Conducted Spurious Emissions	§ 15.247 (d)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 7.8.7	Pass
7	Carrier Frequencies Separation	§ 15.247 (a)(1)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 7.8.2	Pass
8	Hopping Channel Number	§ 15.247 (a)(1) (iii)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 7.8.3	Pass
9	Dwell Time	§ 15.247 (a)(1) (iii)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 7.8.4	Pass
10	Radiated Spurious Emissions	§ 15.247 (d) § 15209	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 6.4,6.5,6.6	Pass
11	Radiated Emissions which fall in the restricted bands	§ 15.247 (d) § 15.205	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 6.10.5, 7.8.8	Pass

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3 Test Configuration

3.1 Test mode

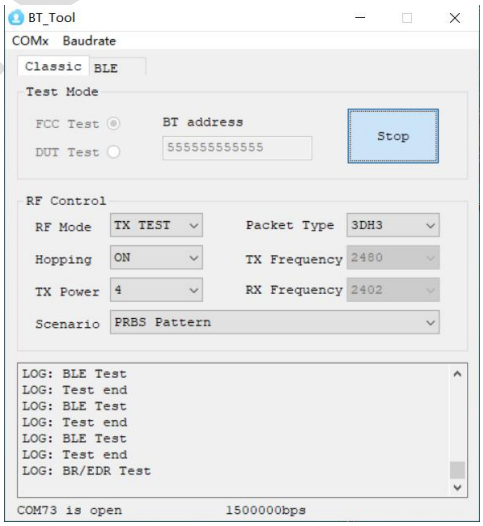
Test Mode [Note 1]	Description
TX	Keep the EUT in continuously transmitting mode with modulation. (hopping and non-hopping mode all have been tested)
RX	Keep the EUT in receiving mode
TX Low channel	Keep the EUT in continuously transmitting mode in low channel
TX middle channel	Keep the EUT in continuously transmitting mode in middle channel
TX high channel	Keep the EUT in continuously transmitting mode in high channel
TX with charging	Keep the EUT in continuously transmitting with charging mode

Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use; the EUT was operated in the engineering mode [Note 2] to fix the TX or Rx frequency that was for the purpose of the measurements.

Note 2: Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

Power level setup in software			
Test Software Name	BT_Tool		
Mode	Channel	Frequency (MHz)	Soft Set
GFSK, pi/4DQPSK, 8DPSK	CH00	2402	TX level: 4
	CH39	2441	
	CH78	2480	

Run Software



3.2 Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz	--	

3.3 Test channel

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

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3.4 Auxiliary equipment

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	Lenovo	E460C	N/A	From lab (No.BLA-ZC-BS-2022005)
--	--	--	--	--

Note:
"--" mean no any auxiliary device during testing.

3.5 Test environment

Environment	Temperature	Voltage
Normal	25°C	DC3.8V

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4 Laboratory information

4.1 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia Technical Services(Shenzhen) Co., Ltd.
Address:	No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
A2LA Cert. No.:	5071.01
FCC Registration Number:	923526
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
IC Registration Number:	24243
CNAS accredited No.:	L9788
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Parameter	Expanded Uncertainty
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±3.0 dB
Temperature	±3 °C
Supply voltages	±3 %
Time	±5 %

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5 Test equipment

Radiated Spurious Emissions (Below 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-002-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-002-02	Control room	966 control room	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2025/08/05	2026/08/04
BLA-EMC-043	Loop antenna	FMZB1519B	Schwarzbeck	00102	2024/06/29	2026/06/28
BLA-EMC-065	Broadband antenna	VULB9168	Schwarzbeck	01065P	2024/06/29	2026/06/27
BLA-XC-01	Coaxial Cable	N/A	BlueAsia	V01	N/A	N/A
BLA-XC-02	Coaxial Cable	N/A	BlueAsia	V02	N/A	N/A

Radiated Spurious Emissions (Above 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-001-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2023/11/16	2026/11/15
BLA-EMC-001-02	Control Room	966 control room	SKET	N/A	2025/11/16	2027/11/15
BLA-EMC-008	Spectrum	FSP40	R&S	100817	2025/08/05	2026/08/04
BLA-EMC-012	Broadband antenna	VULB9168	Schwarzbeck	00836 P:00227	2025/10/12	2028/10/11
BLA-EMC-013	Horn Antenna	BBHA9120D	Schwarzbeck	01892	2024/06/29	2026/06/28
BLA-EMC-014	Amplifier	PA_000318G-45	SKET	PA2018043003	2025/08/05	2026/08/04
BLA-EMC-046	Filter bank	2.4G/5G Filter bank	SKET	N/A	2025/06/09	2026/06/08
BLA-EMC-061	Receiver	ESPI7	R&S	101477	2025/06/09	2026/06/08
BLA-EMC-066	Amplifier	LNPA_30M01G-30	SKET	SK2021060801	2025/06/09	2026/06/08
BLA-EMC-086	Amplifier	LNPA_18G40G-50dB	SKET	SK2022071301	2025/06/09	2026/06/08
BLA-EMC-087	Horn Antenna	BBHA 9170	Schwarzbeck	1106	2024/06/29	2026/06/28
BLA-XC-03	Coaxial Cable	N/A	BlueAsia	V03	N/A	N/A
BLA-XC-04	Coaxial Cable	N/A	BlueAsia	V04	N/A	N/A

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Conducted Emissions

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-003-001	Shield room	8*3*3	SKET	N/A	2025/11/16	2027/11/15
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2025/08/05	2026/08/04
BLA-EMC-011	LISN	ENV216	R&S	101372	2025/08/05	2026/08/04
BLA-EMC-033	Impedance transformer	DC-2GHz	DFXP	N/A	2025/06/09	2026/06/08
BLA-EMC-041	LISN	AT166-2	ATTEN	AKK1806000003	2025/08/05	2026/08/04
BLA-EMC-045	Impedance stable network	ISNT8-cat 6	TESEQ	53580	2025/08/05	2026/08/04
BLA-EMC-095	Single-channel vehicle artificial power network	NNBM 8124	Schwarzbeck	01045	2025/06/09	2026/06/08
BLA-EMC-096	Single-channel vehicle artificial power network	NNBM 8124	Schwarzbeck	01075	2025/06/09	2026/06/08
BLA-XC-05	Coaxial Cable	N/A	BlueAsia	V05	N/A	N/A

RF conducted

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-003-003	Shield room	5*3*3	SKET	N/A	2025/11/16	2027/11/15
BLA-EMC-016	Signal Generator	N5182A	Agilent	MY52420567	2025/06/09	2026/06/08
BLA-EMC-038	Spectrum	N9020A	Agilent	MY49100060	2025/08/05	2026/08/04
BLA-EMC-042	Power sensor	RPR3006W	DARE	14I00889SN042	2025/08/05	2026/08/04
BLA-EMC-044	Radio communication tester	CMW500	R&S	132429	2025/08/05	2026/08/04
BLA-EMC-064	Signal Generator	N5182B	KEYSIGHT	MY58108892	2025/06/09	2026/06/08
BLA-EMC-079	Spectrum	N9020A	Agilent	MY54420161	2025/08/05	2026/08/04
BLA-EMC-088	Audio Analyzer	ATS-1	Audio Precision	ATS141094	2025/06/09	2026/06/08
BLA-EMC-100	Digital Radio Tester	RWC2010	Redwoodcomm	RWC20102490304	2025/06/09	2026/06/08

Test software

Software No.	Software Name	Manufacture	Software version	Test site
BLA-EMC-S001	EZ-EMC	EZ	EEMC-3A1+	RE(Below 1GHz)
BLA-EMC-S002	EZ-EMC	EZ	EEMC-3A1+	RE(Above 1GHz)
BLA-EMC-S003	EZ-EMC	EZ	EEMC-3A1+	CE
BLA-EMC-S010	MTS 8310	MW	2.0.0.0	RF

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6 Test result

6.1 Antenna requirement

Test Standard	47 CFR Part 15, Subpart C 15.203
Test Method	N/A

6.1.1 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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of a so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT antenna:
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.59 dBi.

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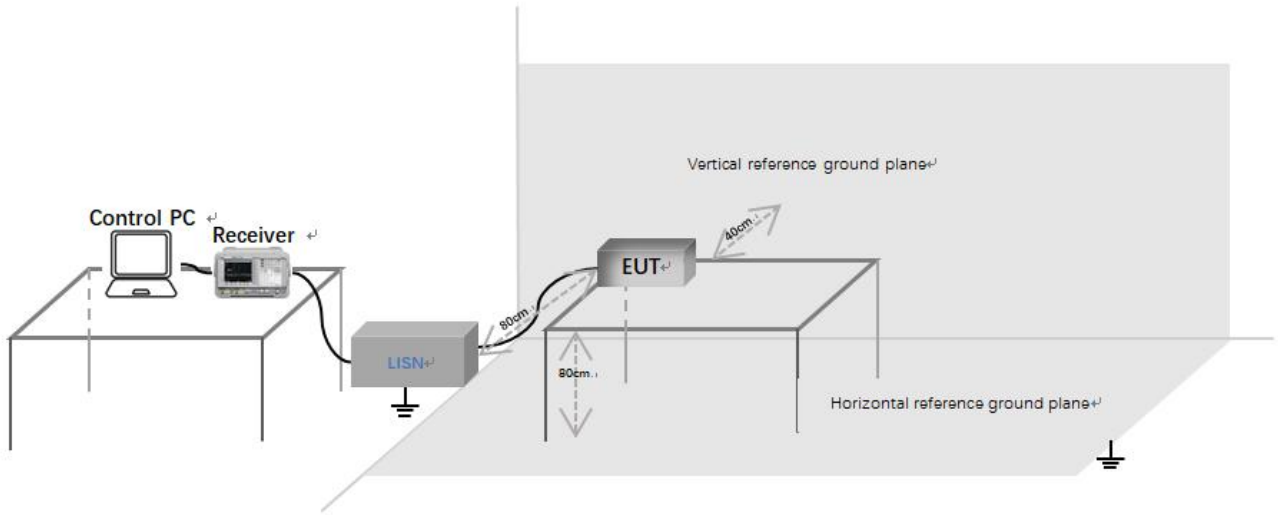
6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

Test Standard	47 CFR Part 15, Subpart C 15.207
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 6.2
Test Mode (Pre-Scan)	TX with charging
Test Mode (Final Test)	TX with charging

6.2.1 Limit

Frequency of emission(MHz)	**Conducted limit(dBμV)**	
	Quasi-peak	**Average**
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.		

6.2.2 Test setup



Description of test setup connection:

a) *Connect the control PC to the receiver through a USB to GPIB cable;*

b) *The receiver is connected to the LISN through a coaxial line;*

c) *Connect the power port of LISN to the EUT.*

6.2.3 Procedure

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

LISN=Read Level+ Cable Loss+ LISN Factor

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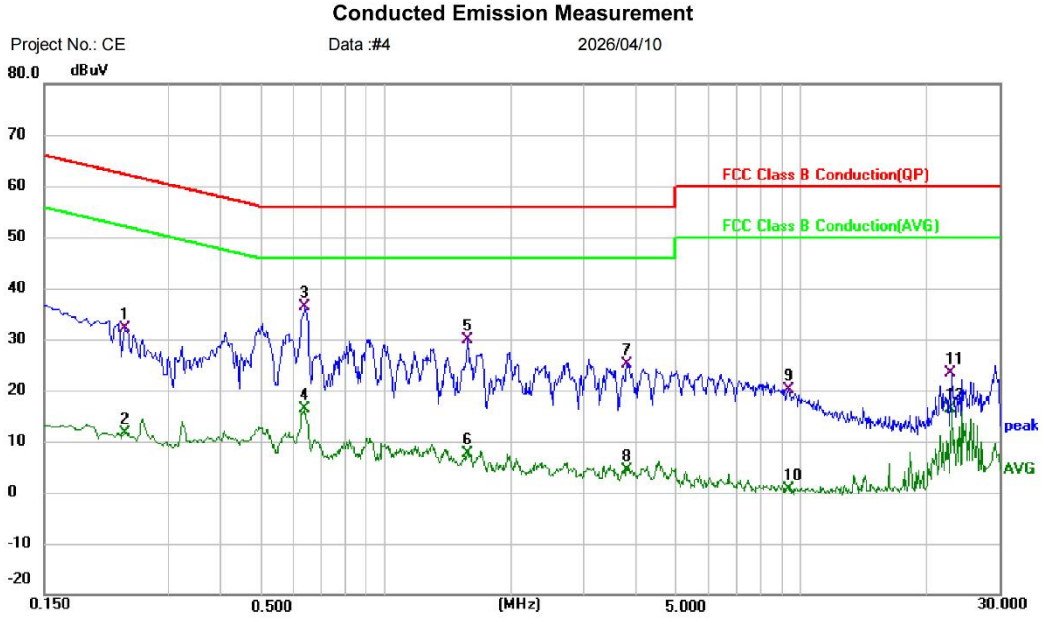
6.2.4 Test data

Remark: During the test, pre-scan the GFSK, pi/4DQPSK, 8DPSK mode, and found the pi/4DQPSK middle channel mode which it is worse case.

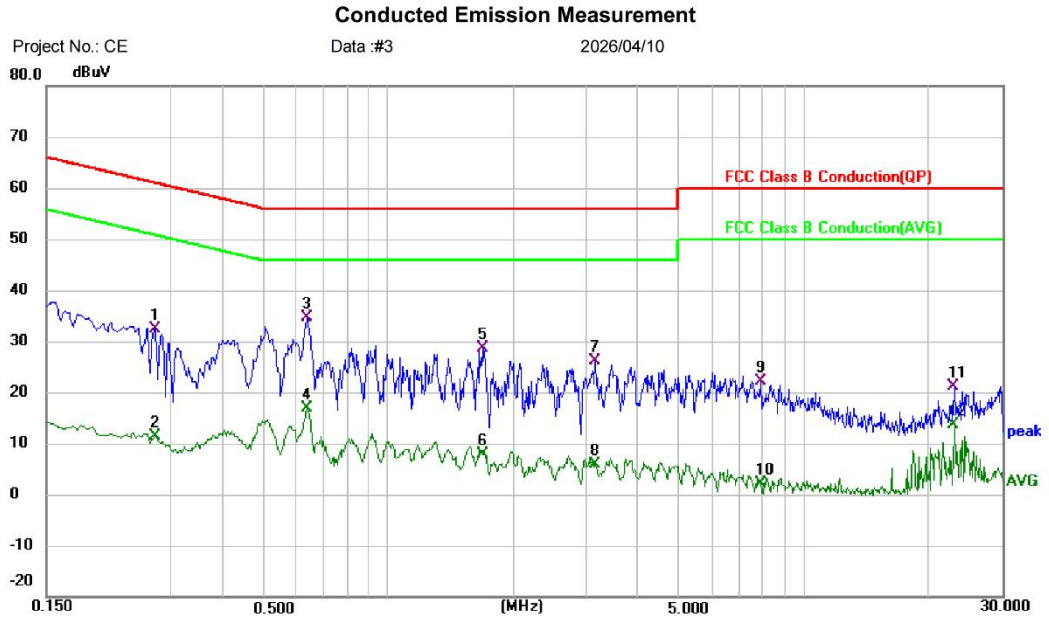
[Test mode: TX]; [Line: Line];[Power:AC120V/60Hz]



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		0.2340	22.00	10.12	32.12	62.31	-30.19	QP			
2		0.2340	1.55	10.12	11.67	52.31	-40.64	AVG			
3	*	0.6380	26.63	9.73	36.36	56.00	-19.64	QP			
4		0.6380	6.57	9.73	16.30	46.00	-29.70	AVG			
5		1.5740	19.96	9.82	29.78	56.00	-26.22	QP			
6		1.5740	-2.17	9.82	7.65	46.00	-38.35	AVG			
7		3.8100	15.15	9.99	25.14	56.00	-30.86	QP			
8		3.8100	-5.53	9.99	4.46	46.00	-41.54	AVG			
9		9.3420	9.58	10.66	20.24	60.00	-39.76	QP			
10		9.3420	-10.02	10.66	0.64	50.00	-49.36	AVG			
11		23.1299	10.03	13.37	23.40	60.00	-36.60	QP			
12		23.1299	3.03	13.37	16.40	50.00	-33.60	AVG			

Test Result: Pass

[Test mode: TX]; [Line: Neutral];[Power:AC120V/60Hz]



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		0.2740	22.81	9.65	32.46	61.00	-28.54	QP			
2		0.2740	1.63	9.65	11.28	51.00	-39.72	AVG			
3	*	0.6380	24.93	9.73	34.66	56.00	-21.34	QP			
4		0.6380	7.15	9.73	16.88	46.00	-29.12	AVG			
5		1.6860	18.79	9.83	28.62	56.00	-27.38	QP			
6		1.6860	-1.94	9.83	7.89	46.00	-38.11	AVG			
7		3.1420	16.19	9.92	26.11	56.00	-29.89	QP			
8		3.1420	-4.04	9.92	5.88	46.00	-40.12	AVG			
9		7.8700	11.76	10.46	22.22	60.00	-37.78	QP			
10		7.8700	-8.25	10.46	2.21	50.00	-47.79	AVG			
11		23.1299	7.86	13.19	21.05	60.00	-38.95	QP			
12		23.1299	0.34	13.19	13.53	50.00	-36.47	AVG			

Test Result: Pass

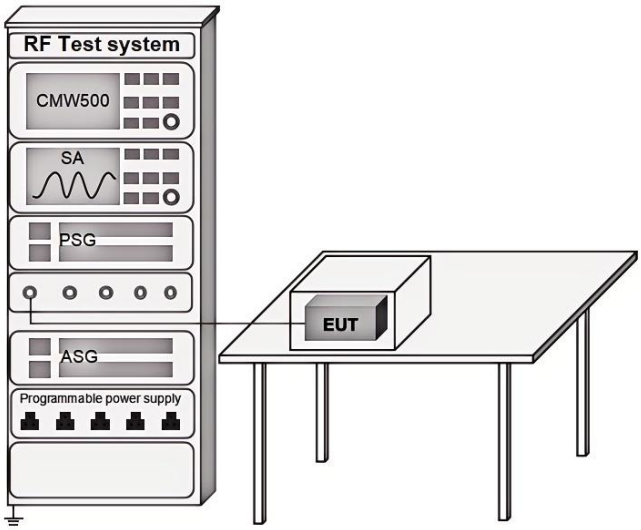
6.3 Conducted peak output Power

Test Standard	47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 11.9.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.3.1 Limit

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ hopping channels <50
	1 for digital modulation
2400-2483.5	1 for ≥75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

6.3.2 Test setup



6.3.3 Test data

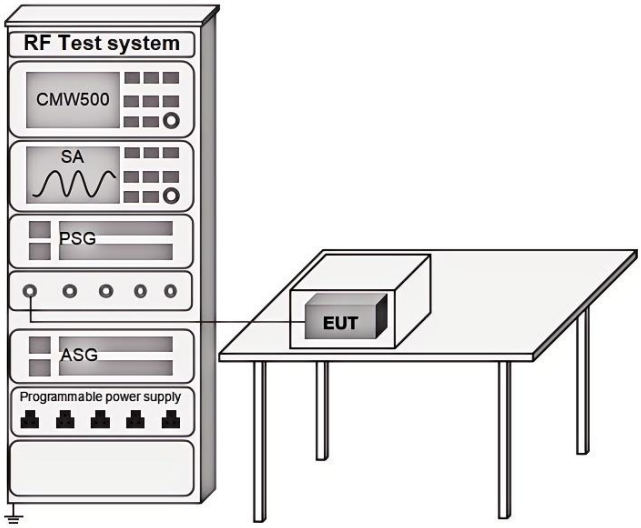
Pass: Please refer to appendix A for details

BlueAsia

6.4 20dB Bandwidth

Test Standard	47 CFR Part 15, Subpart C 15.247 (a)(1)
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 6.9.2& 7.8.7
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.4.1 Test setup



6.4.2 Test data

Pass: Please refer to appendix A for details

6.5 Conducted Band Edges Measurement

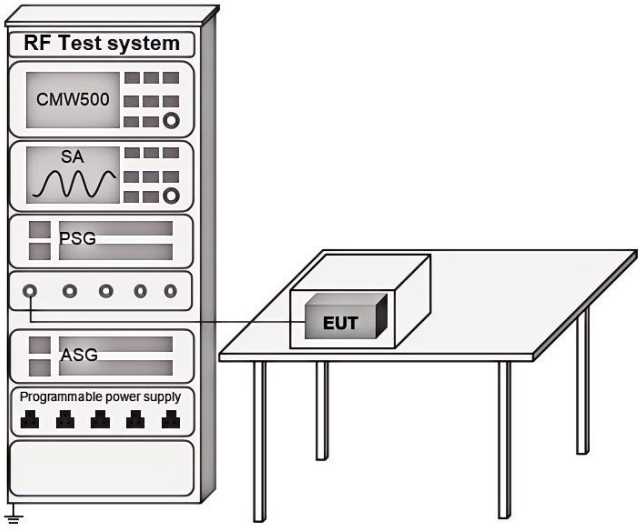
Test Standard	47 CFR Part 15, Subpart C 15.247 (d)
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 6.10.4
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.5.1 Limit

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.
If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.
Attenuation below the general limits specified in §15.209(a) is not required.
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

BlueAsia

6.5.2 Test setup



6.5.3 Test data

Pass: Please refer to appendix A for details

6.6 Conducted spurious emissions

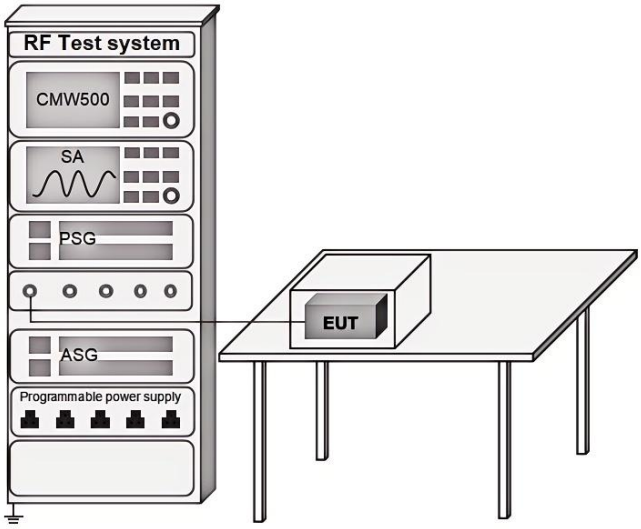
Test Standard	47 CFR Part 15, Subpart C 15.247 (d)
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 7.8.8
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.6.1 Limit

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.
If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.
Attenuation below the general limits specified in §15.209(a) is not required.
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

BlueAsia

6.6.2 Test setup



6.6.3 Test data

Pass: Please refer to appendix A for details

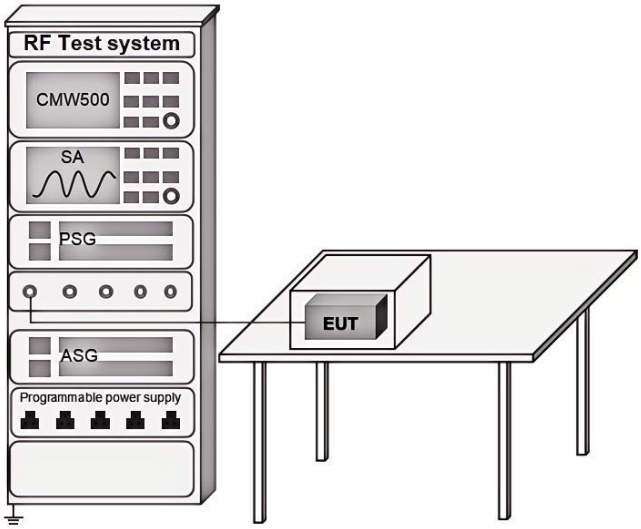
6.7 Carrier Frequencies Separation

Test Standard	47 CFR Part 15, Subpart C 15.247 (a)(1)
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 7.8.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.7.1 Limit

2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W

6.7.2 Test setup



6.7.3 Test data

Pass: Please refer to appendix A for details

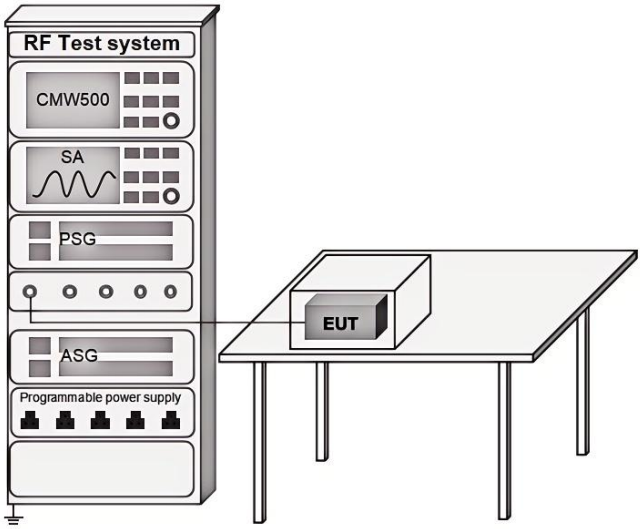
6.8 Hopping Channel Number

Test Standard	47 CFR Part 15, Subpart C 15.247 (a)(1) (iii)
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 7.8.3
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.8.1 Limit

Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

6.8.2 Test setup



6.8.3 Test data

Pass: Please refer to appendix A for details

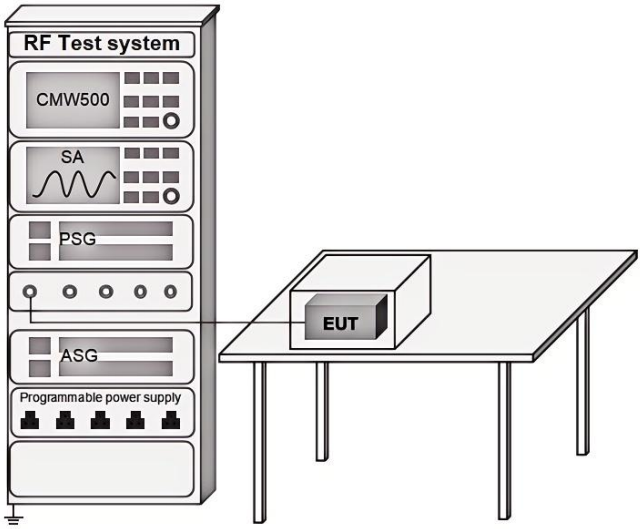
6.9 Dwell Time

Test Standard	47 CFR Part 15, Subpart C 15.247(a)(1) (iii)
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 7.8.4
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.9.1 Limit

Frequency(MHz)	Limit
902-928	0.4s within a 20s period(20dB bandwidth<250kHz)
	0.4s within a 10s period(20dB bandwidth≥250kHz)
2400-2483.5	0.4s within a period of 0.4s multiplied by the number of hopping channels
5725-5850	0.4s within a 30s period

6.9.2 Test setup



6.9.3 Test data

Pass: Please refer to appendix A for details

6.10 Radiated spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247(d) 47 CFR Part 15, Subpart C 15.209
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 6.3,6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.10.1 Limit

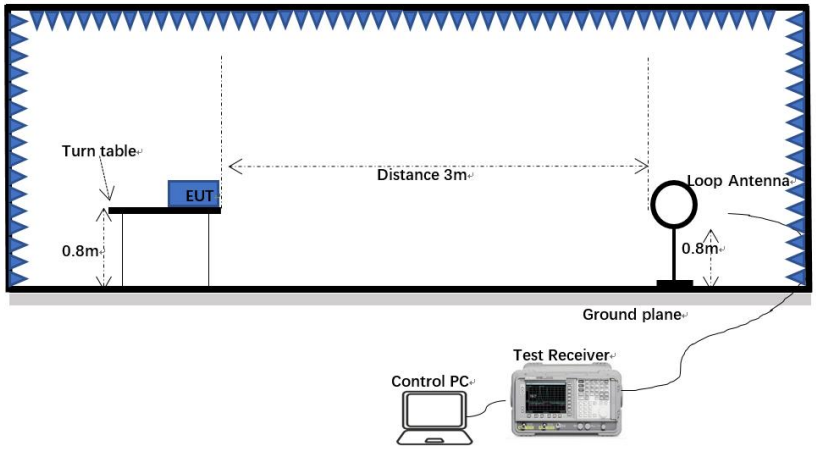
Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

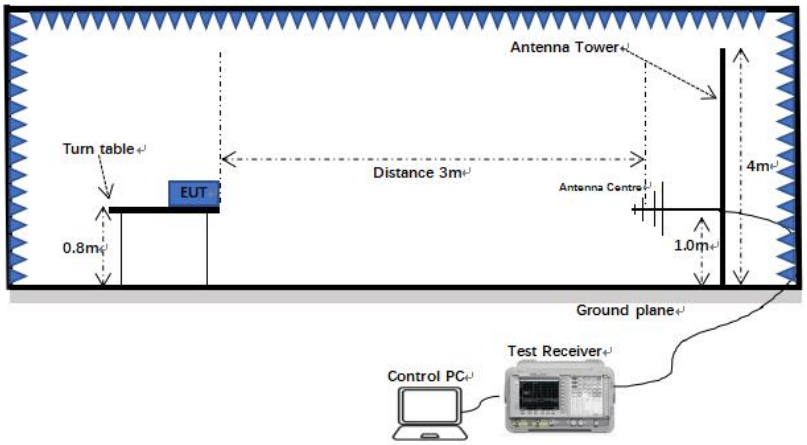
BlueAsia

6.10.2 Test setup

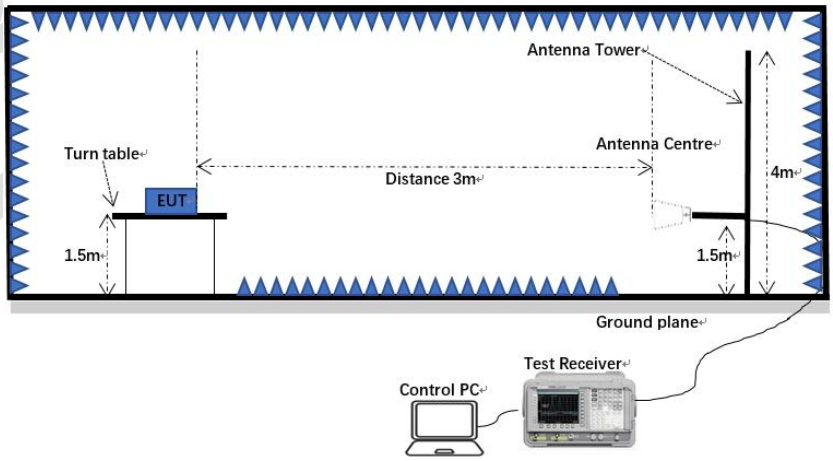
Below 1GHz：



30MHz-1GHz：



Above 1GHz：



6.10.3 Procedure

a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d) The antenna height 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.

e) 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h) Test the EUT in the lowest channel, the middle channel, the highest channel.

i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j) Repeat above procedures until all frequencies measured was complete.

Note 1: Scan from 9 kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

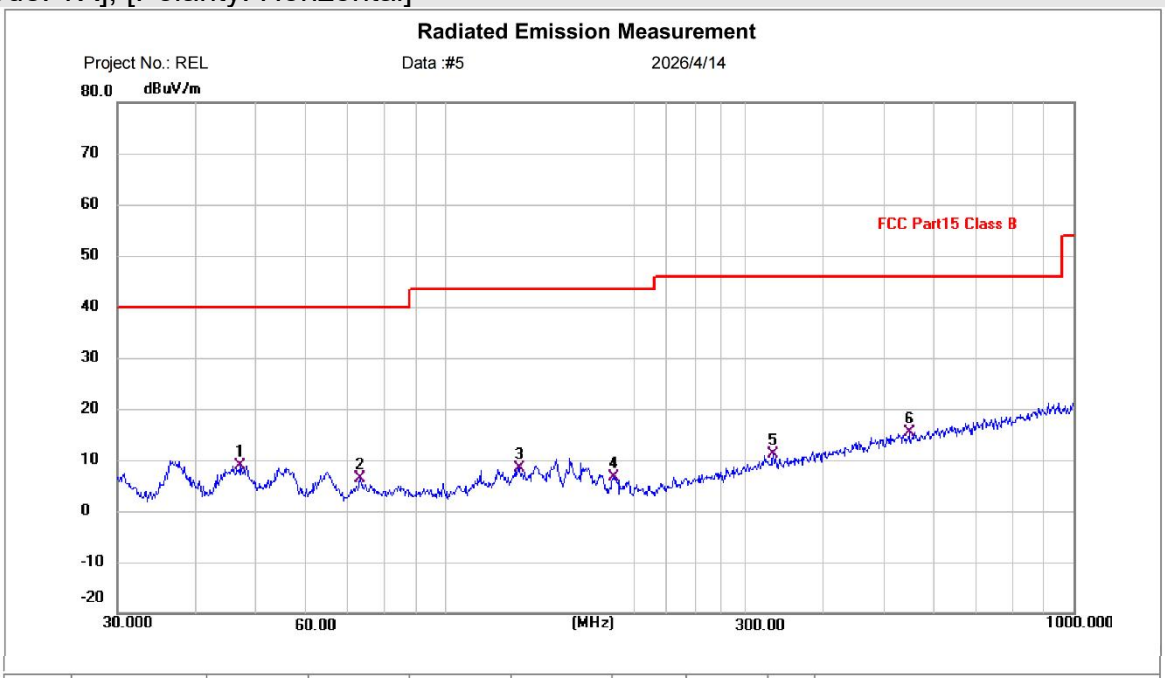
Level (dBuV) = Reading (dBuV) + Factor (dB/m)

6.10.4 Test data

Below 1GHz

Remark: During the test, pre-scan the GFSK, pi/4DQPSK, 8DPSK mode, and found the pi/4DQPSK middle channel mode which it is worse case.

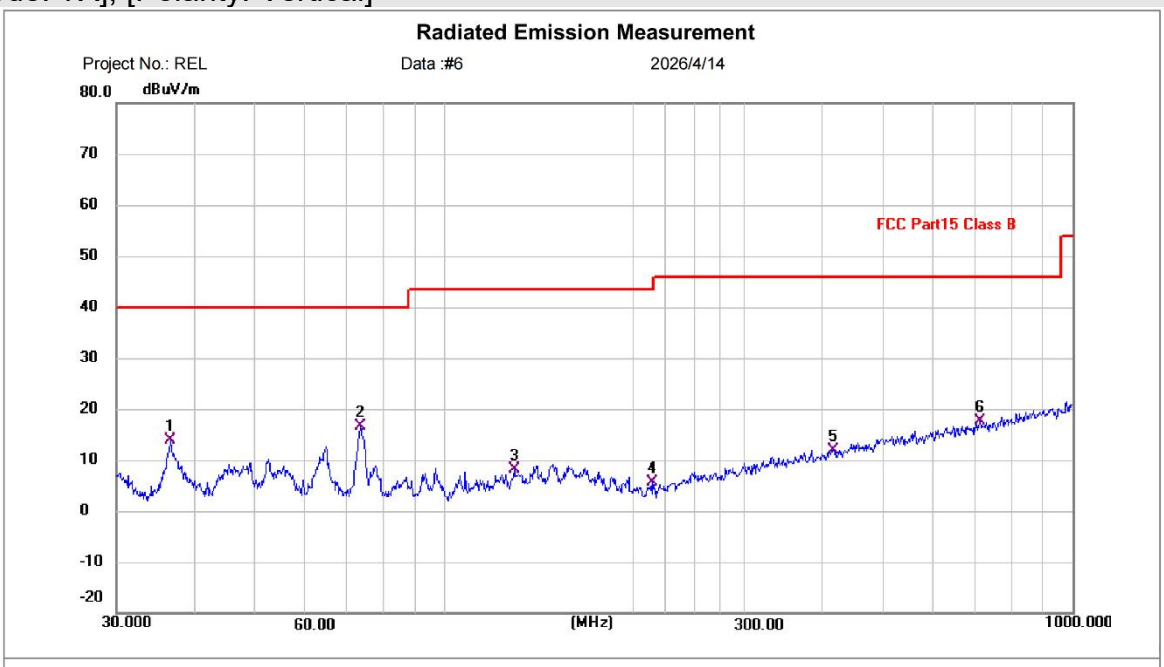
[Test mode: TX]; [Polarity: Horizontal]



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	47.1599	27.96	-19.02	8.94	40.00	-31.06	QP	P	
2	73.1025	28.53	-22.05	6.48	40.00	-33.52	QP	P	
3	130.8369	27.56	-19.16	8.40	43.50	-35.10	QP	P	
4	185.1379	28.01	-21.40	6.61	43.50	-36.89	QP	P	
5	332.5187	28.57	-17.52	11.05	46.00	-34.95	QP	P	
6 *	547.0977	28.41	-13.06	15.35	46.00	-30.65	QP	P	

Test Result: Pass

[Test mode: TX]; [Polarity: Vertical]



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	36.6375	33.39	-19.47	13.92	40.00	-26.08	QP	P	
2 *	73.3593	38.68	-22.13	16.55	40.00	-23.45	QP	P	
3	129.0146	27.55	-19.49	8.06	43.50	-35.44	QP	P	
4	213.7634	28.61	-22.97	5.64	43.50	-37.86	QP	P	
5	416.1791	27.80	-15.93	11.87	46.00	-34.13	QP	P	
6	711.6734	27.73	-10.21	17.52	46.00	-28.48	QP	P	

Test Result: Pass

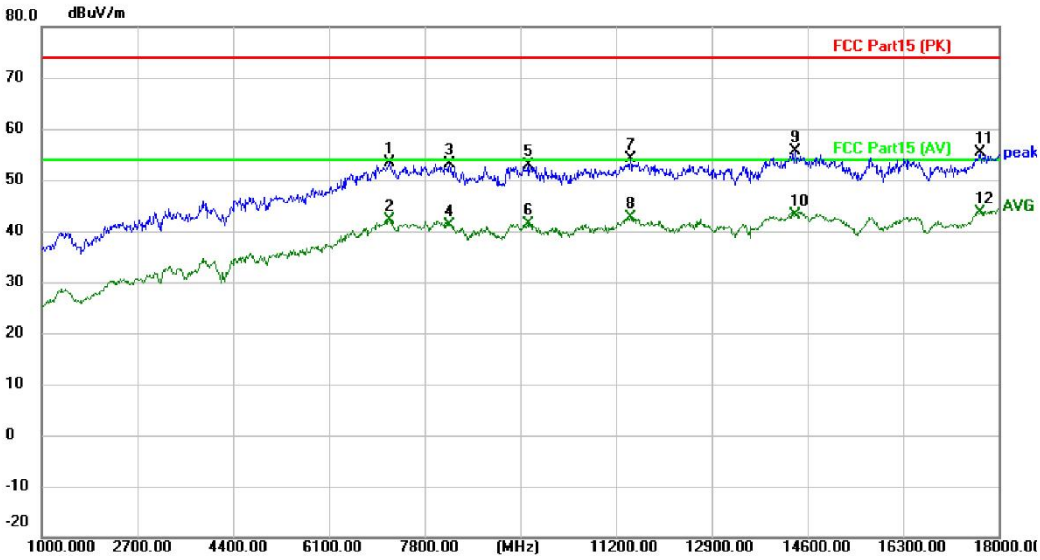
Above 1GHz:

Remark: During the test, pre-scan the GFSK, pi/4DQPSK, 8DPSK mode, and found the GFSK mode which it is worse case.

[Test mode: TX low channel]; [Polarity: Horizontal]

Radiated Emission Measurement

Project No.: REH Data :#23 2026/4/21 15:39:45



Site
Limit: FCC Part15 (PK)
EUT: Wireless Headphones
M/N: POP Clip2
Mode: BT-2402
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		7171.000	46.23	7.03	53.26	74.00	-20.74	peak	
2		7171.000	35.10	7.03	42.13	54.00	-11.87	AVG	
3		8242.000	47.16	5.91	53.07	74.00	-20.93	peak	
4		8242.000	35.31	5.91	41.22	54.00	-12.78	AVG	
5		9636.000	45.12	7.83	52.95	74.00	-21.05	peak	
6		9636.000	33.62	7.83	41.45	54.00	-12.55	AVG	
7		11455.00	44.32	9.89	54.21	74.00	-19.79	peak	
8		11455.00	32.86	9.89	42.75	54.00	-11.25	AVG	
9		14379.00	45.84	9.81	55.65	74.00	-18.35	peak	
10		14379.00	33.40	9.81	43.21	54.00	-10.79	AVG	
11		17660.00	44.97	10.45	55.42	74.00	-18.58	peak	
12	*	17660.00	33.08	10.45	43.53	54.00	-10.47	AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

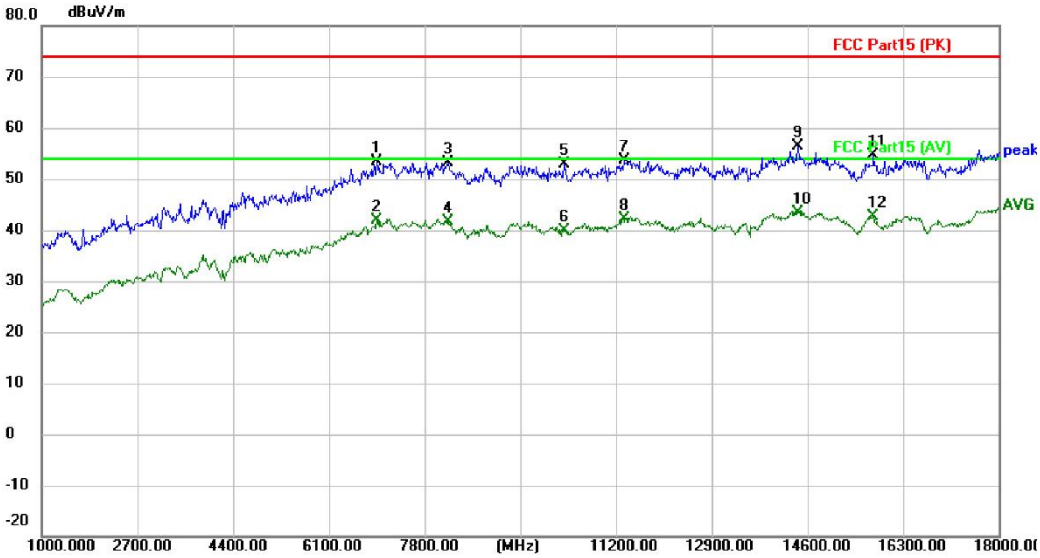
Receiver: ESPI_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX low channel]; [Polarity: Vertical]

Radiated Emission Measurement

Project No.: REH Data :#24 2026/4/21 15:40:18



Site Polarization: ***Vertical*** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: Wireless Headphones
M/N: POP Clip2
Mode: BT-2402
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		6950.000	46.87	6.55	53.42	74.00	-20.58	peak	
2		6950.000	35.43	6.55	41.98	54.00	-12.02	AVG	
3		8225.000	47.18	6.04	53.22	74.00	-20.78	peak	
4		8225.000	35.62	6.04	41.66	54.00	-12.34	AVG	
5		10282.00	44.57	8.40	52.97	74.00	-21.03	peak	
6		10282.00	31.52	8.40	39.92	54.00	-14.08	AVG	
7		11336.00	44.67	8.93	53.60	74.00	-20.40	peak	
8		11336.00	33.10	8.93	42.03	54.00	-11.97	AVG	
9		14430.00	46.82	9.67	56.49	74.00	-17.51	peak	
10	*	14430.00	33.80	9.67	43.47	54.00	-10.53	AVG	
11		15773.00	46.66	7.86	54.52	74.00	-19.48	peak	
12		15773.00	34.66	7.86	42.52	54.00	-11.48	AVG	

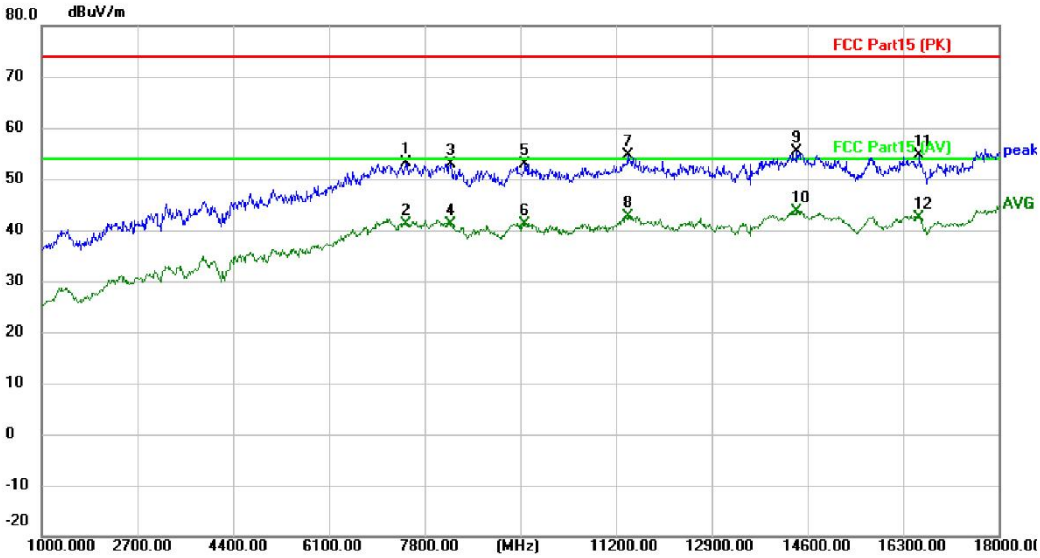
*:Maximum data x:Over limit !:over margin 〈Reference Only
Receiver: ESPI_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Horizontal]

Radiated Emission Measurement

Project No.: REH Data :#25 2026/4/21 15:40:55



Site Polarization: ***Horizontal*** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: Wireless Headphones
M/N: POP Clip2
Mode: BT-2441
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		7477.000	46.37	6.86	53.23	74.00	-20.77	peak	
2		7477.000	34.37	6.86	41.23	54.00	-12.77	AVG	
3		8259.000	47.08	5.80	52.88	74.00	-21.12	peak	
4		8259.000	35.22	5.80	41.02	54.00	-12.98	AVG	
5		9585.000	45.52	7.46	52.98	74.00	-21.02	peak	
6		9585.000	33.62	7.46	41.08	54.00	-12.92	AVG	
7		11404.00	44.93	9.62	54.55	74.00	-19.45	peak	
8		11404.00	33.13	9.62	42.75	54.00	-11.25	AVG	
9		14413.00	45.69	9.71	55.40	74.00	-18.60	peak	
10	*	14413.00	33.94	9.71	43.65	54.00	-10.35	AVG	
11		16589.00	45.10	9.57	54.67	74.00	-19.33	peak	
12		16589.00	32.71	9.57	42.28	54.00	-11.72	AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

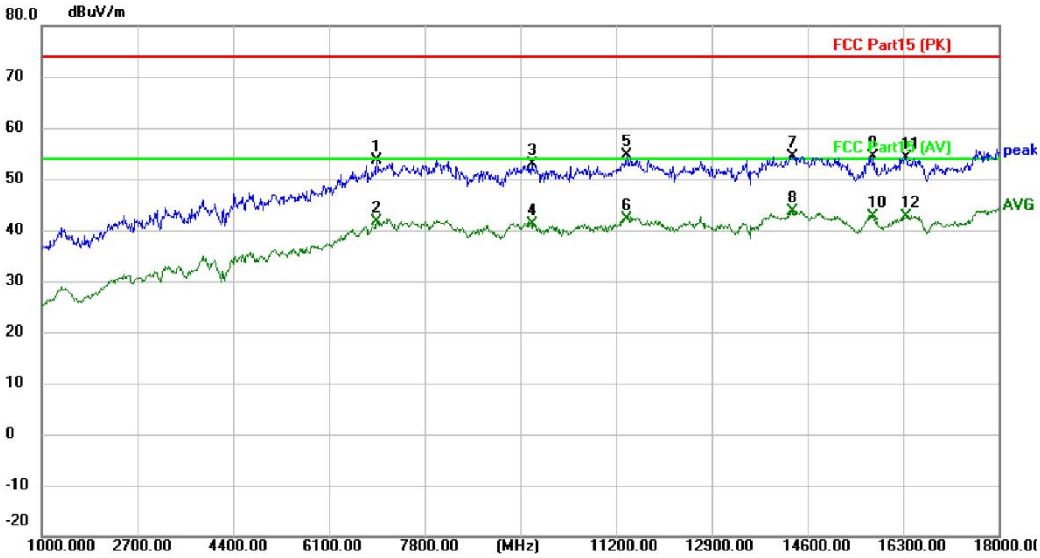
Receiver: ESPI_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Vertical]

Radiated Emission Measurement

Project No.: REH Data :#26 2026/4/21 15:41:27



Site
Limit: FCC Part15 (PK)
EUT: Wireless Headphones
M/N: POP Clip2
Mode: BT-2441
Note:

Polarization: ***Vertical***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		6950.000	47.09	6.55	53.64	74.00	-20.36	peak	
2		6950.000	35.16	6.55	41.71	54.00	-12.29	AVG	
3		9704.000	44.79	8.05	52.84	74.00	-21.16	peak	
4		9704.000	33.09	8.05	41.14	54.00	-12.86	AVG	
5		11387.00	45.24	9.47	54.71	74.00	-19.29	peak	
6		11387.00	32.75	9.47	42.22	54.00	-11.78	AVG	
7		14328.00	44.45	10.02	54.47	74.00	-19.53	peak	
8	*	14328.00	33.54	10.02	43.56	54.00	-10.44	AVG	
9		15773.00	46.45	7.86	54.31	74.00	-19.69	peak	
10		15773.00	34.65	7.86	42.51	54.00	-11.49	AVG	
11		16351.00	45.27	8.95	54.22	74.00	-19.78	peak	
12		16351.00	33.56	8.95	42.51	54.00	-11.49	AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

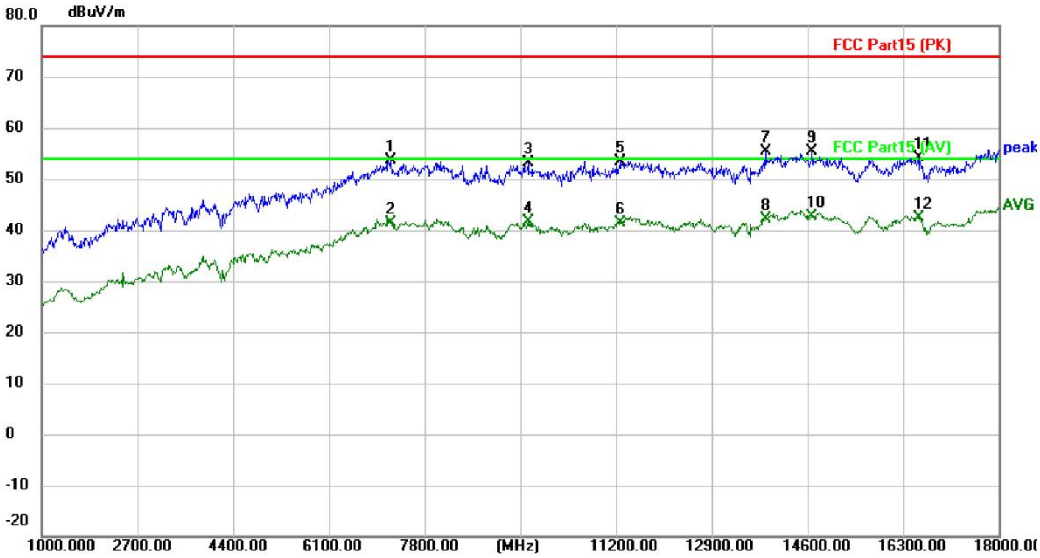
Receiver: ESPI_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Horizontal]

Radiated Emission Measurement

Project No.: REH Data :#27 2026/4/21 15:42:04



Site
Limit: FCC Part15 (PK)
EUT: Wireless Headphones
M/N: POP Clip2
Mode: BT-2480
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		7188.000	46.83	6.91	53.74	74.00	-20.26	peak	
2		7188.000	34.42	6.91	41.33	54.00	-12.67	AVG	
3		9636.000	45.39	7.83	53.22	74.00	-20.78	peak	
4		9636.000	33.81	7.83	41.64	54.00	-12.36	AVG	
5		11285.00	44.81	8.58	53.39	74.00	-20.61	peak	
6		11285.00	32.78	8.58	41.36	54.00	-12.64	AVG	
7		13852.00	45.98	9.48	55.46	74.00	-18.54	peak	
8		13852.00	32.72	9.48	42.20	54.00	-11.80	AVG	
9		14685.00	45.94	9.47	55.41	74.00	-18.59	peak	
10	*	14685.00	33.10	9.47	42.57	54.00	-11.43	AVG	
11		16572.00	44.67	9.56	54.23	74.00	-19.77	peak	
12		16572.00	32.84	9.56	42.40	54.00	-11.60	AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

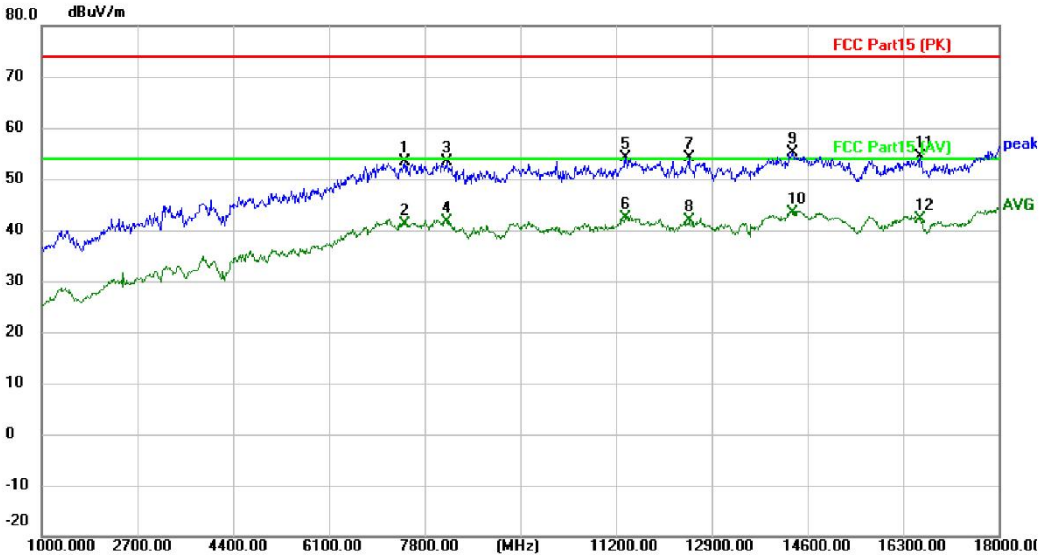
Receiver: ESPI_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Vertical]

Radiated Emission Measurement

Project No.: REH Data :#28 2026/4/21 15:42:38



Site Polarization: ***Vertical*** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: Wireless Headphones
M/N: POP Clip2
Mode: BT-2480
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		7443.000	46.29	7.11	53.40	74.00	-20.60	peak	
2		7443.000	34.06	7.11	41.17	54.00	-12.83	AVG	
3		8191.000	47.22	6.25	53.47	74.00	-20.53	peak	
4		8191.000	35.43	6.25	41.68	54.00	-12.32	AVG	
5		11370.00	44.82	9.28	54.10	74.00	-19.90	peak	
6		11370.00	33.19	9.28	42.47	54.00	-11.53	AVG	
7		12492.00	45.72	8.49	54.21	74.00	-19.79	peak	
8		12492.00	33.29	8.49	41.78	54.00	-12.22	AVG	
9		14345.00	45.28	9.95	55.23	74.00	-18.77	peak	
10	*	14345.00	33.33	9.95	43.28	54.00	-10.72	AVG	
11		16606.00	44.96	9.44	54.40	74.00	-19.60	peak	
12		16606.00	32.70	9.44	42.14	54.00	-11.86	AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only
Receiver: ESPI_1 Spectrum Analyzer: FSP40

Test Result: Pass

6.11 Radiated emissions which fall in the restricted bands

Test Standard	47 CFR Part 15, Subpart C 15.247(d) 47 CFR Part 15, Subpart C 15.205
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 6.10.5, 7.8.8
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.11.1 Limit

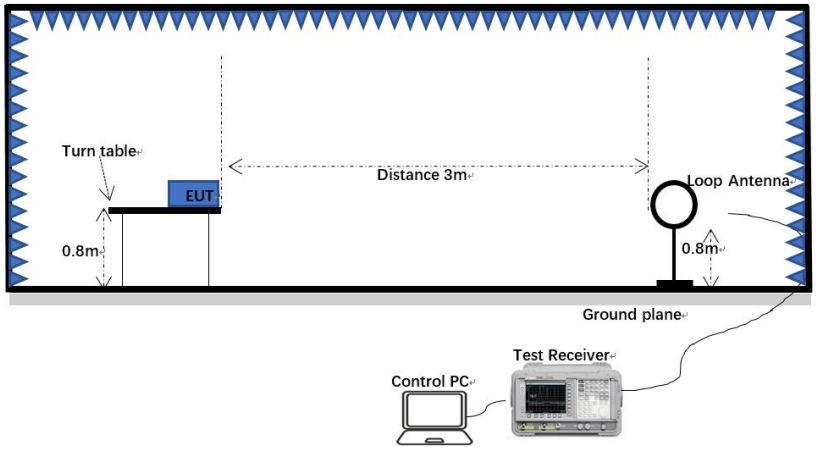
Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

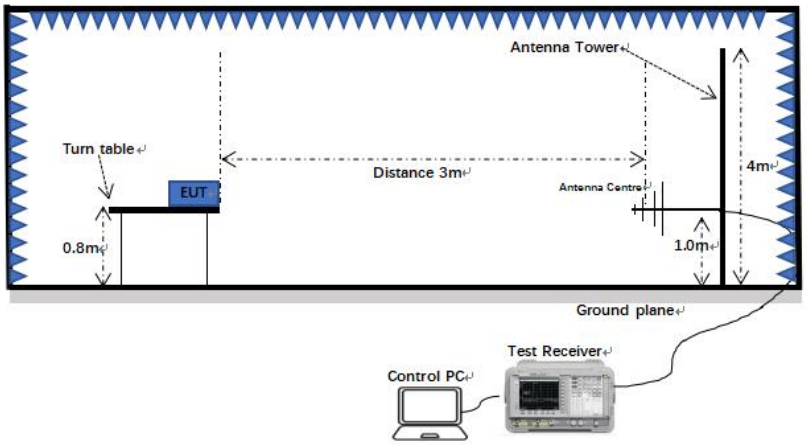
BlueAsia

6.11.2 Test setup

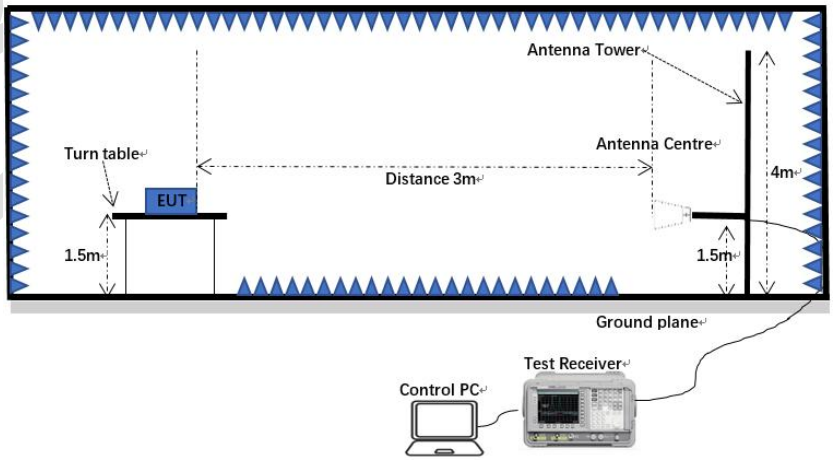
Below 1GHz：



30MHz-1GHz：



Above 1GHz：



6.11.3 Procedure

a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d) The antenna height 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.

e) 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h) Test the EUT in the lowest channel, the middle channel, the highest channel.

i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j) Repeat above procedures until all frequencies measured was complete.

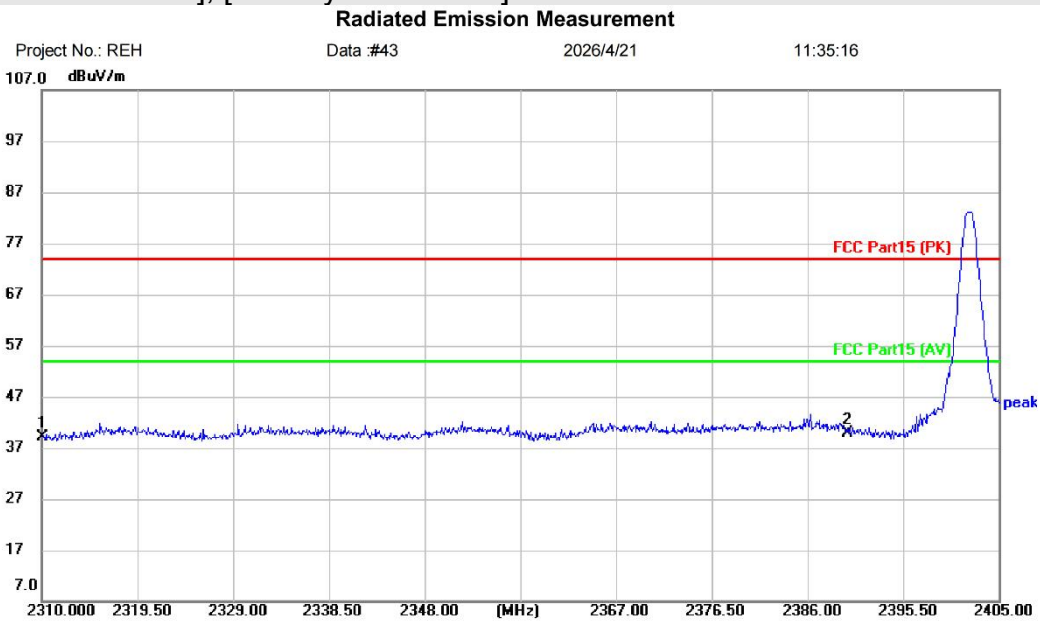
Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)
Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

BlueAsia

6.11.4 Test data

Remark: During the test, pre-scan the GFSK, pi/4DQPSK, 8DPSK mode, and found the GFSK mode which it is worse case.

[Test mode: TX low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Wireless Headphones
M/N: POP Clip2
Mode: BT-2402
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.99	-2.87	39.12	74.00	-34.88	peak	
2	*	2390.000	42.44	-2.44	40.00	74.00	-34.00	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

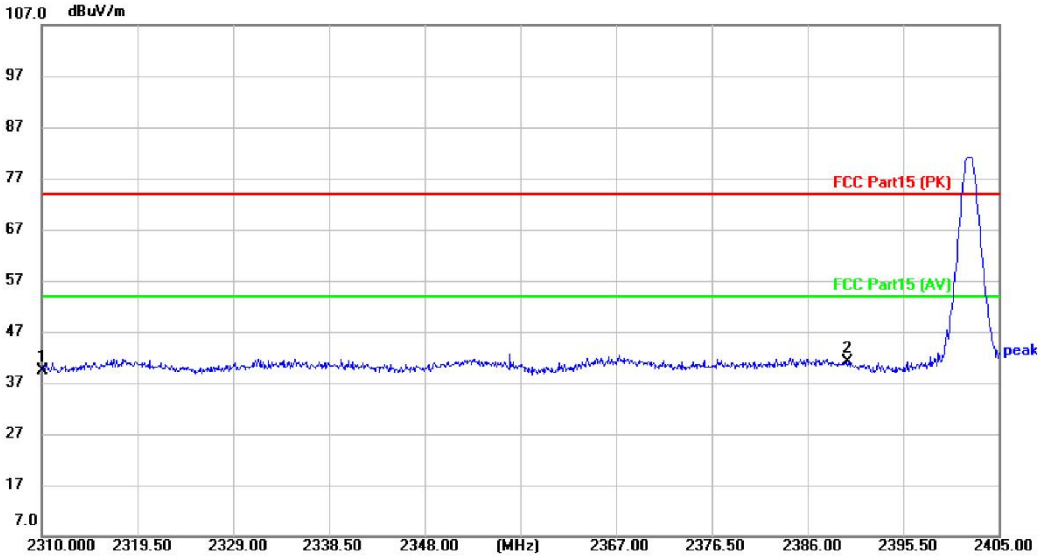
Receiver: ESPI_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode:TX low channel]; [Polarity: Vertical]

Radiated Emission Measurement

Project No.: REH Data :#44 2026/4/21 11:37:47



Site Polarization: ***Vertical*** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: Wireless Headphones
M/N: POP Clip2
Mode: BT-2402
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	42.27	-2.87	39.40	74.00	-34.60	peak	
2	*	2390.000	43.58	-2.44	41.14	74.00	-32.86	peak	

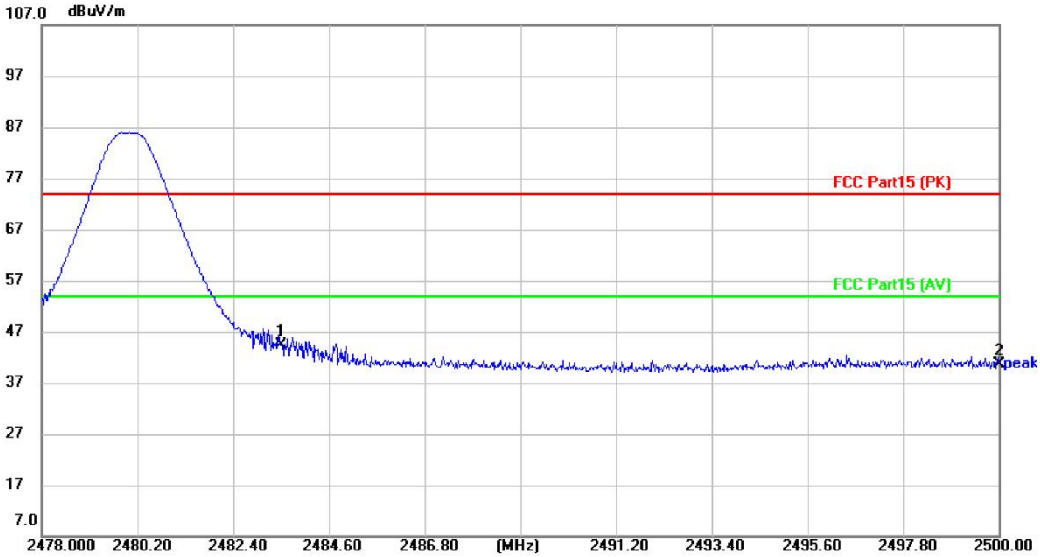
*:Maximum data x:Over limit !:over margin 〈Reference Only
Receiver: ESPI_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Horizontal]

Radiated Emission Measurement

Project No.: REH Data :#45 2026/4/21 11:40:39



Site
Limit: FCC Part15 (PK)
EUT: Wireless Headphones
M/N: POP Clip2
Mode: BT-2480
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	47.27	-2.91	44.36	74.00	-29.64	peak	
2		2500.000	43.74	-3.00	40.74	74.00	-33.26	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESPI_1 Spectrum Analyzer: FSP40

Test Result: Pass