

TEST REPORT

Applicant: COOSEA GROUP (HK) COMPANY LIMITED
Address: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT
AVENUE TSIMSHATSUI KL
Equipment Type: SmartPhone
Model Name: SP545C
Brand Name: Artia
FCC ID: 2A28USL003AS
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Nov. 25, 2024
Test Date: Jan. 02, 2025
Date of Issue: Jan. 07, 2025

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center



Tested by: Chai Yong

Checked by: Huang Chengkun

Approved by: Chen Zidong
(Technical Director)

Chai Yong

Huang Chengkun

Chen Zidong

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jan. 07, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1st to 2nd floors, Building 1, No. 222 Xuanlan Road, Xuanqiao Town, Pudong New District, Shanghai

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1st to 2nd floors, Building 1, No. 222 Xuanlan Road, Xuanqiao Town, Pudong New District, Shanghai
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	COOSEA GROUP (HK) COMPANY LIMITED
Address	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL

2.2 Manufacturer Information

Manufacturer	COOSEA GROUP (HK) COMPANY LIMITED
Address	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL

2.3 General Description for Equipment under Test (EUT)

Equipment Type	SmartPhone
Model Name Under Test	SP545C
Series Model Name	N/A
Description of Model Name Differentiation	N/A
Hardware Version	1.0
Software Version	SP545C10004
Dimensions (Approx.)	150.7mm(L) × 73.7mm(W) × 10.6mm(H)
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Lithium-ion Battery	
	Brand Name	N/A
	Model No.	BL-A86CT
	Serial No.	N/A
	Capacity	2000 mAh
	Rated Voltage	3.7 V
	Limit Charge Voltage	4.2 V
	Manufacturer	Shenzhen Aerospace Electronic Co., Ltd.
Ancillary Equipment 2	Power Adapter	
	Brand Name	N/A
	Model No.	UT-681A-5100UY
	Serial No.	N/A
	Rated Input	100-240 V _{AC} , 0.2 A, 50/60 Hz
	Rated Output	5 V _{DC} 1 A 5W
	Manufacturer	Shenzhen Baijunda Electronic Co., Ltd.
Ancillary Equipment 3	USB Cable	
	Model No.	01.07.11.00185
	Length (Approx.)	0.8 m

2.5 Technical Information

Network and wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/12/17/25/26/66/71 Bluetooth 4.2 (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) GPS, GLONASS, Galileo, BeiDou
Classification of equipment	Class B
Highest frequency generated or used in the device or on which the device operates (MHz)	2480 MHz

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart B	Unintentional Radiators
2	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

3.2 Verdict

No.	Description	FCC Rule	Test Verdict	Remark
1	Radiated Emission	15.109	Pass	--
2	Conducted Emission, AC Ports	15.107	Pass	--

3.3 Decision Rule

- ☐ No Need
- ☒ Use General conformity decision rule (Consider uncertainty or not ☒ No ☐ Yes)
- ☐ Use Special Conformity Decision Rule (Consider uncertainty or not ☐ No ☐ Yes)

3.4 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Conducted emissions (150 kHz-30 MHz)-AMN	2.6 dB
Radiated emissions (30 MHz-1 GHz)-966#1	4.4 dB
Radiated emissions (1 GHz-18 GHz) -966#1	5.2 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Enclosure List

Description	Manufacturer	Model	Serial No.	Length	Description	Use
Laptop	DELL	N/A	N/A	N/A	N/A	☒
TF Card	N/A	N/A	N/A	N/A	N/A	☒
Earphone	N/A	N/A	N/A	N/A	N/A	☒

4.2 Test Configurations

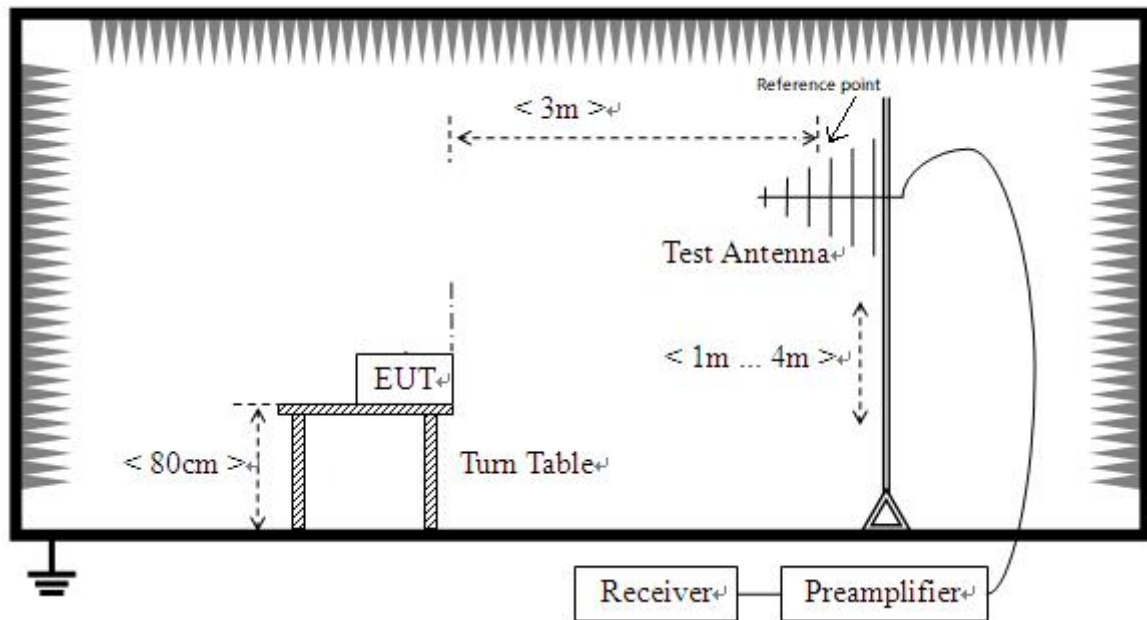
All test modes of EUT are listed in the table below.

Test Mode Configuration	Description
Mode 1	<u>The Front Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + Earphone + TF Card
Mode 2	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery + Earphone + TF Card
Mode 3	<u>The Rear Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + Earphone + TF Card
Mode 4	<u>The USB Test Mode</u> EUT + Laptop + USB Cable + Battery + Earphone + TF Card

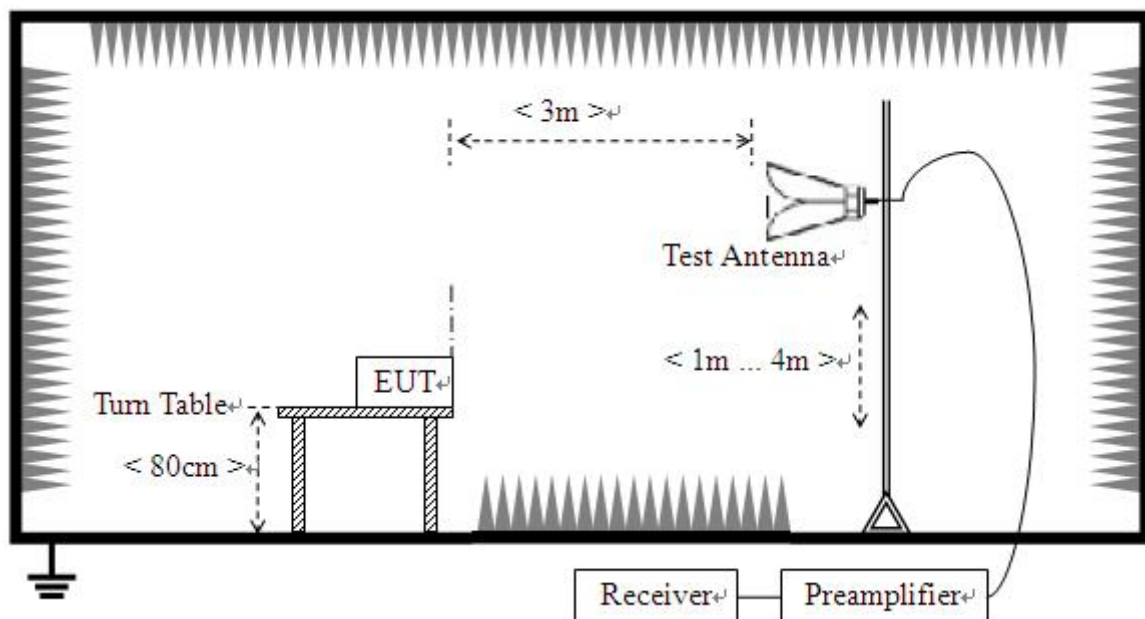
Test Case	Test Mode Configuration	Worst Mode
Radiated emission	Mode 1~Mode 4	1,4
Conducted emission	Mode 1~Mode 4	1
Note: Based on client request, all normal using modes of the normal function were tested, but only data of the worst mode (if test case has) was reported in this report.		

4.3 Test Setups

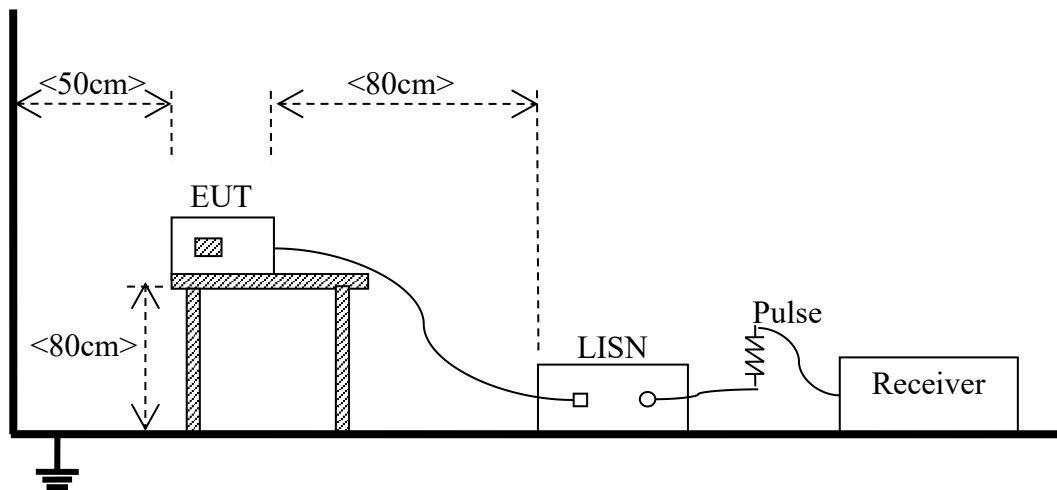
Test Setup 1



Radiated Emission (30 MHz-1 GHz)



Radiated Emission (above 1 GHz)

Test Setup 2

Conducted emission, AC ports

5 TEST ITEMS

5.1 Emission Tests

5.1.1 Radiated emission

5.1.1.1 Limit

Frequency range (MHz)	Class B (at 3 m)		Class A (at 3 m)
	Field Strength ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)
30 - 88	100	40	49.5
88 - 216	150	43.5	54
216 - 960	200	46	56.9
Above 960	500	54	60

Note:

- 1) Field Strength (dB $\mu\text{V/m}$) = $20 \cdot \log [\text{Field Strength } (\mu\text{V/m})]$.
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) The limits using ANSI C63.4-2014.
- 4) For 30-1000 MHz, the CISPR quasi-peak is employed.

For above 1000 MHz, according to the requirements of FCC 15.35, unless otherwise specified, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

Frequency range (GHz)	Class B (at 3 m)			Class A (at 3 m)	
	Field Strength ($\mu\text{V/m}$)	Field Strength Average (dB $\mu\text{V/m}$)	Field Strength Peak (dB $\mu\text{V/m}$)	Field Strength Average (dB $\mu\text{V/m}$)	Field Strength Peak (dB $\mu\text{V/m}$)
1 - F_M	500	54	74	60	80

Note 1: The highest measurement frequency, F_M , in GHz, shall be determined as next Table.

Note 2: Average Class A limit at 3m L_{3m} is determined by the following conversion formula:

$$L_{3m} = L_{10m} + 20 \cdot \log(d_{10m}/d_{3m})$$
Where:
 L_{3m} is Average Class A limit at 3m;
 L_{10m} is Average Class A limit at 10m;
 d_{10m} is Measurement distance in 10m;
 d_{3m} is Measurement distance in 3m.
For this case: $L_{3m} = 49.5 + 20 \cdot \log(10/3) = 60$ (dB $\mu\text{V/m}$).

Highest internal frequency (F_X)	Highest measurement frequency (F_M)
$F_X \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} \leq F_X \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} \leq F_X \leq 1 \text{ GHz}$	5 GHz
$F_X \geq 1 \text{ GHz}$	$5 * F_X$ or 40 GHz, whichever is lower.
Note: F_X is Highest frequency generated or used in the device or on which the device operates or tunes.	

5.1.1.2 Test setup

Please refer to 4.2 section description of test setup of test setup 1. The photo of test setup please refer to ANNEX B.

5.1.1.3 Test procedure

1. The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);
2. All Radiated Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.
3. An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.
4. The measurement frequency range is from 30 MHz to the 5th harmonic of the maximum frequency of the EUT internal source. The Turn Table is actuated to turn from 0° to 360° , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.
5. Use the following spectrum analyzer settings:
 Span = wide enough to fully capture the emission being measured
 RBW = 1 MHz for $f \geq 1 \text{ GHz}$, 100 kHz for $f < 1 \text{ GHz}$
 VBW $\geq$ RBW
 Sweep = auto
 Detector function = peak for $f < 1 \text{ GHz}$, peak & RMS Average for $f \geq 1 \text{ GHz}$
 Trace = max hold

5.1.1.4 Test result and test equipment list

Please refer to ANNEX A.1.

Note:

1. Results (dB μ V/m) = Reading (dB μ V/m) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)
3. Margin = Limit – Results

5.1.2 Conducted emission

5.1.2.1 Limit

Frequency range (MHz)	Class A		Class B	
	Quasi-peak (dB μ V)	Average (dB μ V)	Quasi-peak (dB μ V)	Average (dB μ V)
0.15 - 0.50	79	66	66 to 56	56 to 46
0.50 - 5	73	60	56	46
5 - 30	73	60	60	50

Note:

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.
- 3) The limit using ANSI C63.4.

5.1.2.2 Test setup

Please refer to 4.2 section description of test setup of test setup 2. The photo of test setup please refer to ANNEX B.

5.1.2.3 Test procedure

1. The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);
2. The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.
3. Use the following spectrum analyzer settings:
 RBW = 9 kHz
 VBW $\geq$ RBW
 Sweep = 10ms
 Detector function = Peak & Average
 Trace = max hold

5.1.2.4 Test result and test equipment list

Please refer to ANNEX A.2.

Note:

1. Results (dB μ V) = Reading (dB μ V) + Factor (dB)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss

3. Margin = Limit – Results

ANNEX A TEST RESULTS AND TEST EQUIPMENT LIST

A.1 Radiated emission

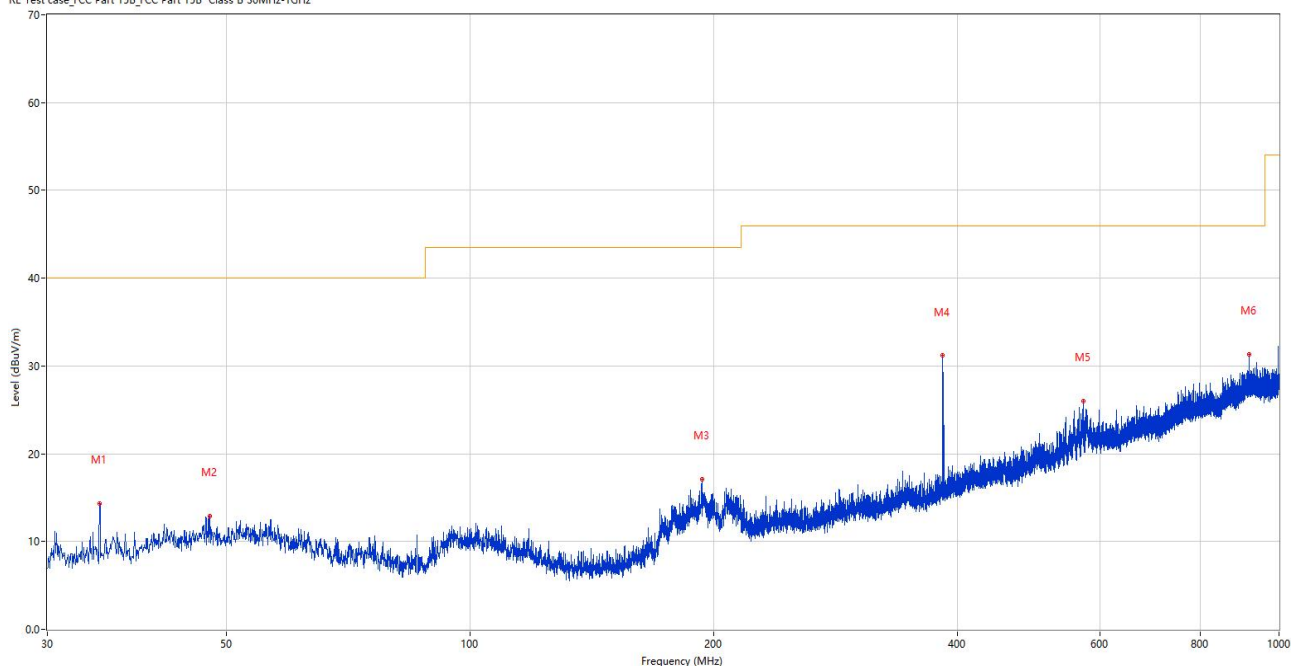
Note 1: Measurements shall be made with a quasi-peak measuring receiver in the frequency range 30 MHz to 1000 MHz. To reduce the testing time, a peak measuring receiver may be used instead of a quasi-peak measuring receiver. In case of dispute, measurement with a quasi-peak measuring receiver will take precedence.

Sample No.	SC-SH24A0082-S05	Temperature	19.8°C
Humidity	49%RH	Test Voltage	AC 120V/60Hz
Test Engineer	She Xihao	Test Date	2025.01.02

Test Mode 1

A.1.1 Test Antenna Vertical, 30 MHz – 1 GHz

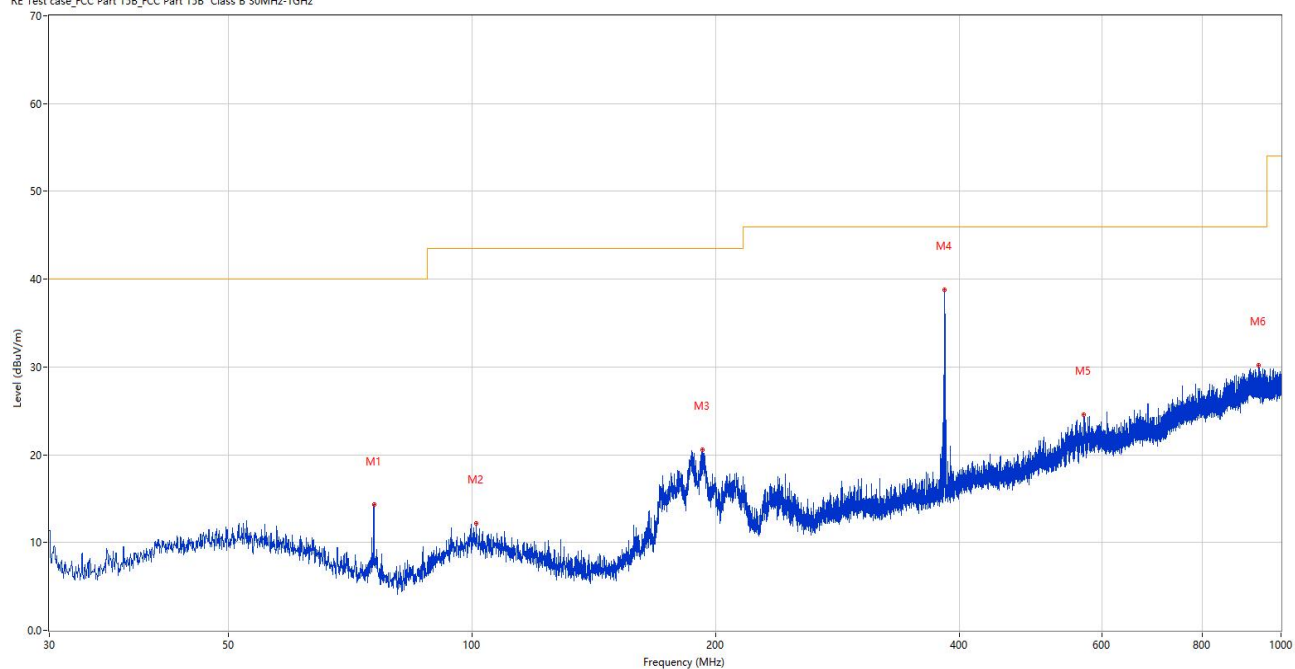
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.801	14.34	-29.15	40.0	25.66	Peak	349.00	100	Vertical	Pass
2	47.654	12.88	-25.76	40.0	27.12	Peak	318.00	200	Vertical	Pass
3	193.396	17.11	-26.63	43.5	26.39	Peak	0.00	100	Vertical	Pass
4	384.002	31.17	-21.50	46.0	14.83	Peak	67.00	200	Vertical	Pass
5	572.327	26.02	-16.85	46.0	19.98	Peak	163.00	100	Vertical	Pass
6	917.938	31.28	-9.23	46.0	14.72	Peak	329.00	200	Vertical	Pass

A.1.2 Test Antenna Horizontal, 30 MHz – 1 GHz

RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz

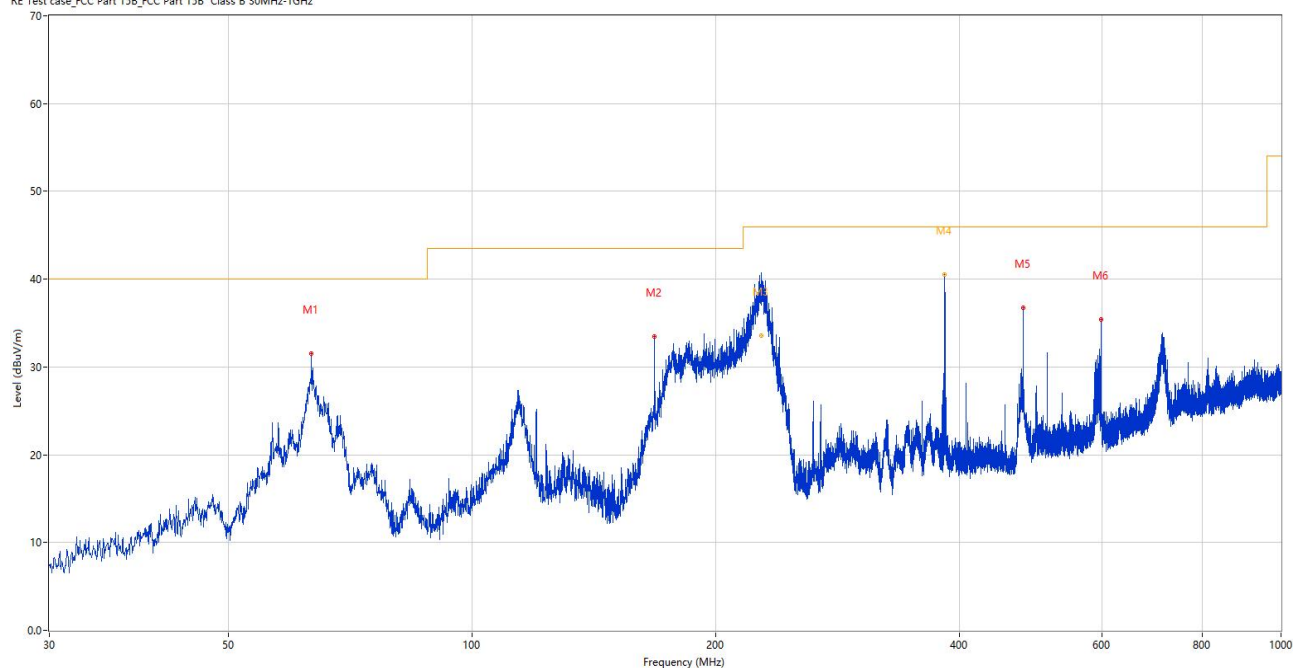


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	75.590	14.28	-31.39	40.0	25.72	Peak	333.00	100	Horizontal	Pass
2	101.246	12.17	-26.78	43.5	31.33	Peak	0.00	200	Horizontal	Pass
3	192.475	20.61	-26.79	43.5	22.89	Peak	300.00	200	Horizontal	Pass
4	383.565	38.82	-21.51	46.0	7.18	Peak	268.00	100	Horizontal	Pass
5	569.951	24.57	-17.06	46.0	21.43	Peak	305.00	200	Horizontal	Pass
6	939.181	30.19	-9.26	46.0	15.81	Peak	247.00	100	Horizontal	Pass

Test Mode 4

A.1.3 Test Antenna Vertical, 30 MHz – 1 GHz

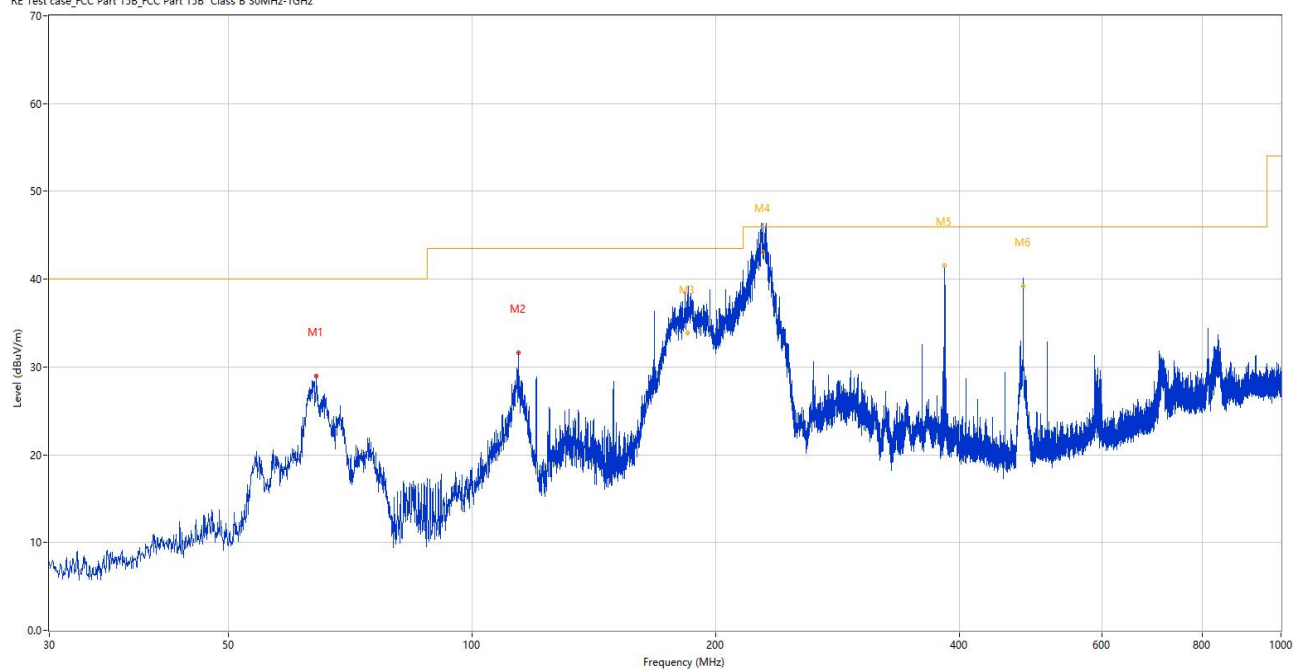
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	63.271	31.51	-27.44	40.0	8.49	Peak	159.00	100	Vertical	Pass
2	167.982	33.51	-29.22	43.5	9.99	Peak	0.00	100	Vertical	Pass
3	227.538	38.54	-26.00	46.0	7.46	Peak	214.00	101	Vertical	N/A
3*	227.538	33.52	-26.00	46.0	12.48	QP	214.00	101	Vertical	Pass
4	384.000	42.49	-21.50	46.0	3.51	Peak	45.00	156	Vertical	N/A
4*	384.000	40.49	-21.50	46.0	5.51	QP	45.00	156	Vertical	Pass
5	479.983	36.73	-19.27	46.0	9.27	Peak	264.00	100	Vertical	Pass
6	599.390	35.42	-15.68	46.0	10.58	Peak	225.00	100	Vertical	Pass

A.1.4 Test Antenna Horizontal, 30 MHz – 1 GHz

RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	64.192	28.94	-27.71	40.0	11.06	Peak	200.00	100	Horizontal	Pass
2	114.002	31.63	-27.90	43.5	11.87	Peak	245.00	100	Horizontal	Pass
3	184.739	39.58	-27.90	43.5	3.92	Peak	97.00	185	Horizontal	N/A
3*	184.739	33.84	-27.90	43.5	9.66	QP	97.00	185	Horizontal	Pass
4	228.932	49.13	-25.93	46.0	-3.13	Peak	92.00	121	Horizontal	N/A
4*	228.932	43.05	-25.93	46.0	2.95	QP	92.00	121	Horizontal	Pass
5	384.000	42.94	-21.50	46.0	3.06	Peak	164.00	101	Horizontal	N/A
5*	384.000	41.57	-21.50	46.0	4.43	QP	164.00	101	Horizontal	Pass
6	479.998	54.87	-19.27	46.0	-8.87	Peak	235.00	104	Horizontal	N/A
6*	479.998	39.16	-19.27	46.0	6.84	QP	235.00	104	Horizontal	Pass

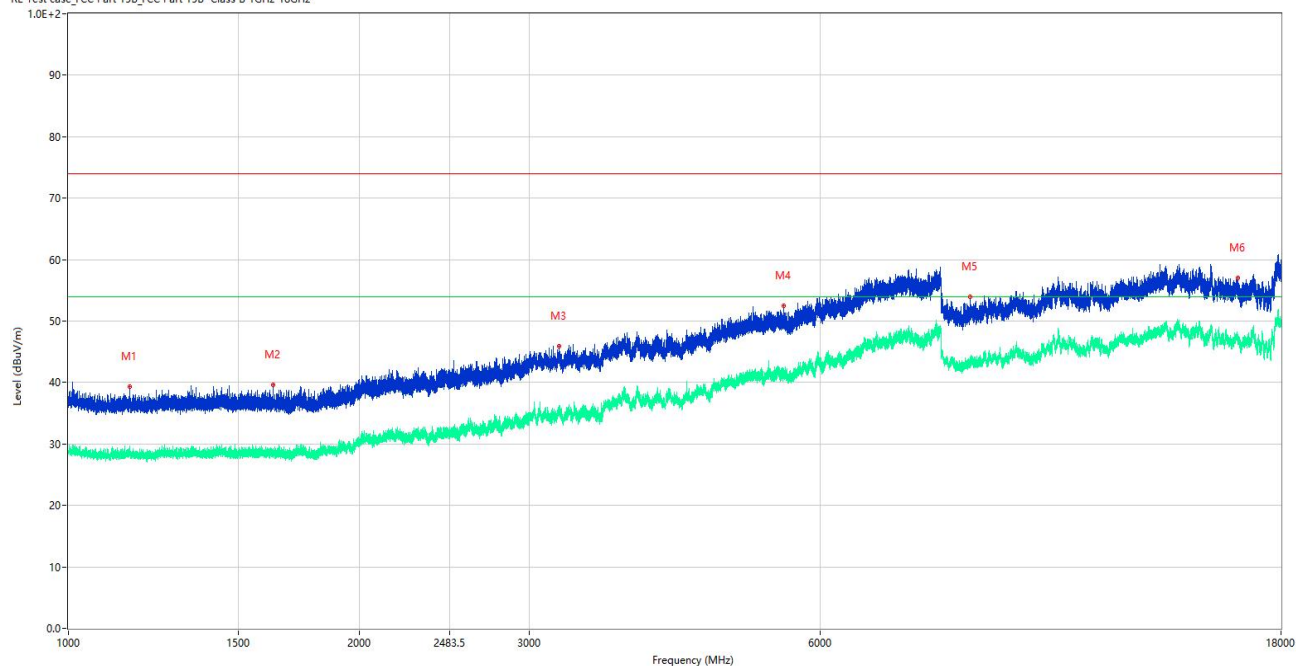
Equipment Information						
Equipment Name	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L015	2024.07.09	2025.07.08	☒
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	BH-EMC-L008	2024.03.11	2027.03.10	☒
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	☒
Description	Manufacturer	Name	Version	/		Use
Test Software	BALUN	BL410-E	V21.919	/		☒

Sample No.	SC-SH24A0082-S05	Temperature	19.8°C
Humidity	49%RH	Test Voltage	AC 120V/60Hz
Test Engineer	She Xihao	Test Date	2025.01.02

Test Mode 1

A.1.5 Test Antenna Vertical, 1 GHz – 18 GHz

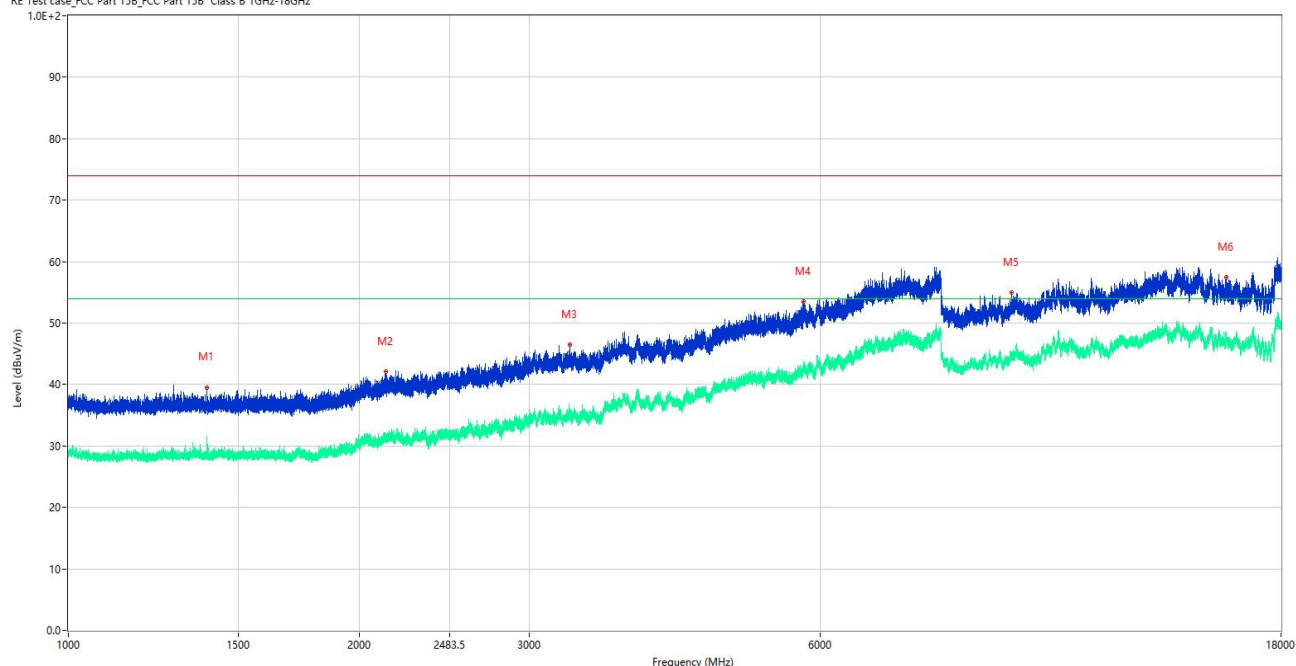
RE Test case FCC Part 15B_FCC Part 15B Class B 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1158.500	39.35	-15.73	74.0	34.65	Peak	333.00	100	Vertical	Pass
1**	1158.500	28.20	-15.73	54.0	25.80	AV	333.00	100	Vertical	Pass
2	1630.500	39.59	-16.24	74.0	34.41	Peak	109.00	100	Vertical	Pass
2**	1630.500	28.14	-16.24	54.0	25.86	AV	109.00	100	Vertical	Pass
3	3219.500	45.94	-6.67	74.0	28.06	Peak	215.00	100	Vertical	Pass
3**	3219.500	35.81	-6.67	54.0	18.19	AV	215.00	100	Vertical	Pass
4	5502.750	52.46	-0.48	74.0	21.54	Peak	341.00	100	Vertical	Pass
4**	5502.750	41.26	-0.48	54.0	12.74	AV	341.00	100	Vertical	Pass
5	8585.000	53.95	1.62	74.0	20.05	Peak	199.00	100	Vertical	Pass
5**	8585.000	43.45	1.62	54.0	10.55	AV	199.00	100	Vertical	Pass
6	16245.000	56.97	5.57	74.0	17.03	Peak	63.00	100	Vertical	Pass
6**	16245.000	46.74	5.57	54.0	7.26	AV	63.00	100	Vertical	Pass

A.1.6 Test Antenna Horizontal, 1 GHz – 18 GHz

RE Test case_FCC Part 15B_FCC Part 15B Class B 1GHz-18GHz

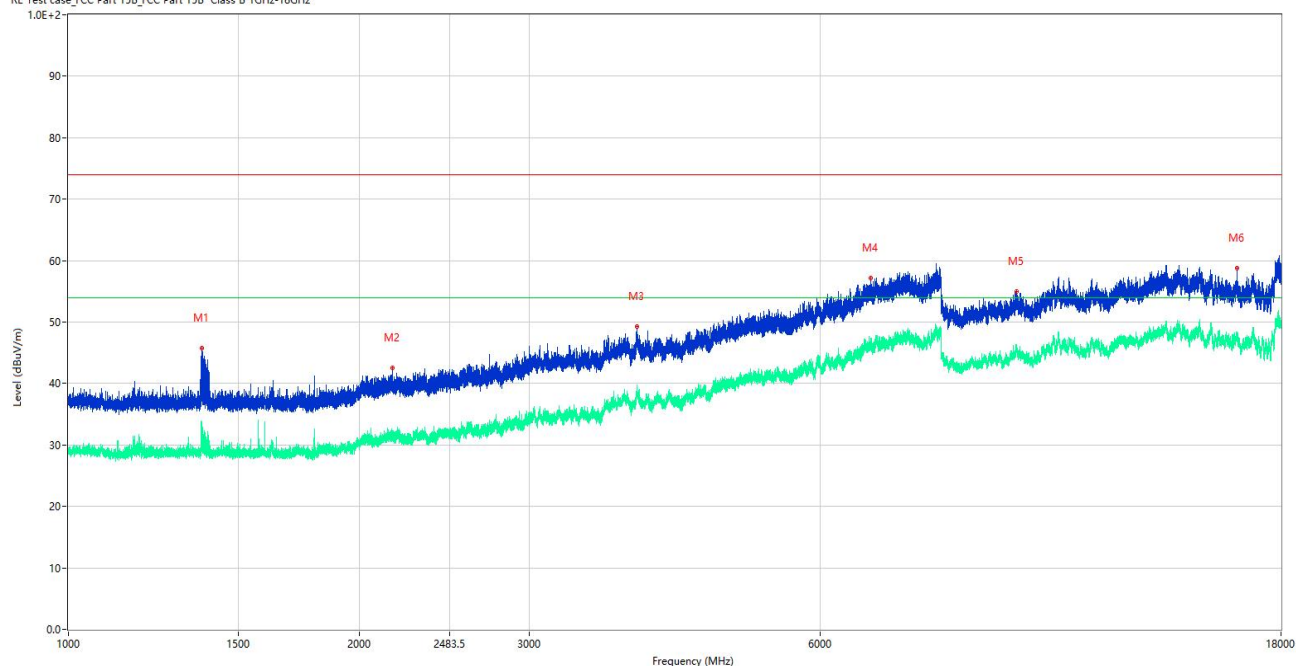


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1391.700	39.53	-16.27	74.0	34.47	Peak	358.00	100	Horizontal	Pass
1**	1391.700	29.83	-16.27	54.0	24.17	AV	358.00	100	Horizontal	Pass
2	2130.000	42.09	-13.24	74.0	31.91	Peak	327.00	100	Horizontal	Pass
2**	2130.000	30.43	-13.24	54.0	23.57	AV	327.00	100	Horizontal	Pass
3	3302.250	46.43	-6.36	74.0	27.57	Peak	89.00	100	Horizontal	Pass
3**	3302.250	35.06	-6.36	54.0	18.94	AV	89.00	100	Horizontal	Pass
4	5774.000	53.46	1.32	74.0	20.54	Peak	165.00	100	Horizontal	Pass
4**	5774.000	43.18	1.32	54.0	10.82	AV	165.00	100	Horizontal	Pass
5	9465.000	54.99	2.21	74.0	19.01	Peak	311.00	100	Horizontal	Pass
5**	9465.000	45.12	2.21	54.0	8.88	AV	311.00	100	Horizontal	Pass
6	15796.500	57.49	6.34	74.0	16.51	Peak	341.00	100	Horizontal	Pass
6**	15796.500	47.45	6.34	54.0	6.55	AV	341.00	100	Horizontal	Pass

Test Mode 4

A.1.7 Test Antenna Vertical, 1 GHz – 18 GHz

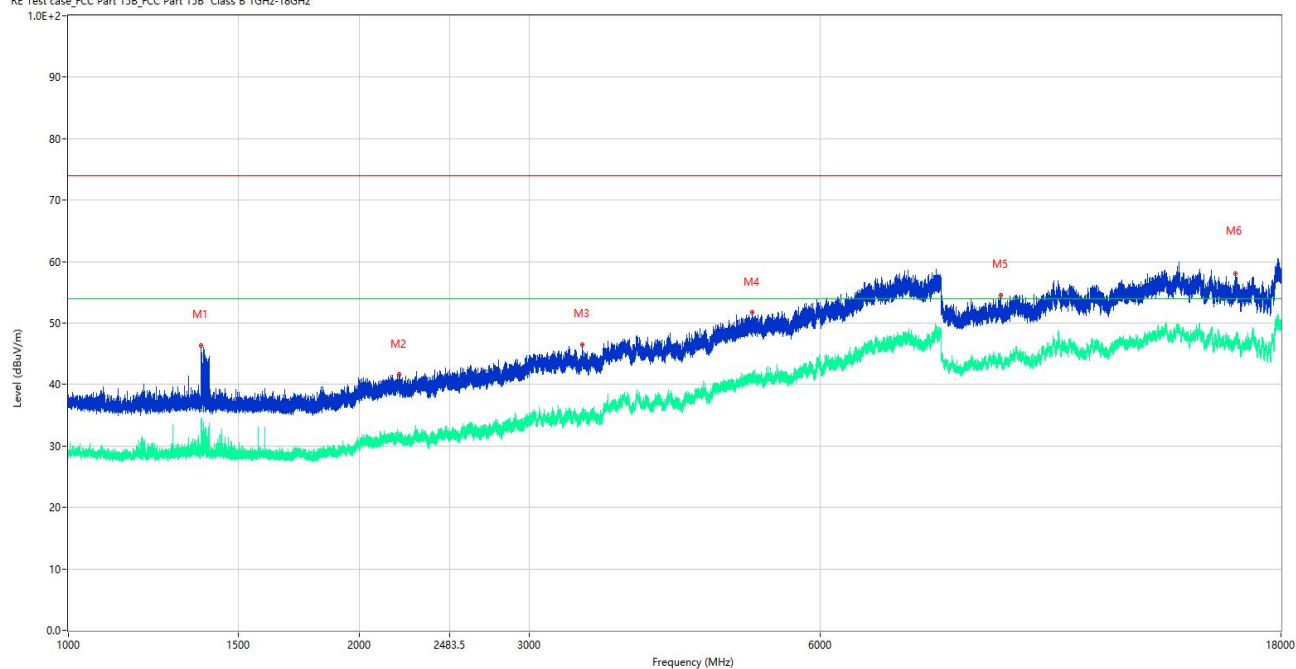
RE Test case FCC Part 15B_FCC Part 15B Class B 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1373.900	45.70	-16.24	74.0	28.30	Peak	331.00	100	Vertical	Pass
1**	1373.900	32.28	-16.24	54.0	21.72	AV	331.00	100	Vertical	Pass
2	2165.800	42.56	-12.89	74.0	31.44	Peak	247.00	100	Vertical	Pass
2**	2165.800	31.22	-12.89	54.0	22.78	AV	247.00	100	Vertical	Pass
3	3880.250	49.22	-2.59	74.0	24.78	Peak	358.00	100	Vertical	Pass
3**	3880.250	39.71	-2.59	54.0	14.29	AV	358.00	100	Vertical	Pass
4	6767.250	57.18	4.16	74.0	16.82	Peak	59.00	100	Vertical	Pass
4**	6767.250	46.42	4.16	54.0	7.58	AV	59.00	100	Vertical	Pass
5	9580.000	54.91	3.11	74.0	19.09	Peak	95.00	100	Vertical	Pass
5**	9580.000	45.61	3.11	54.0	8.39	AV	95.00	100	Vertical	Pass
6	16197.000	58.76	6.37	74.0	15.24	Peak	215.00	100	Vertical	Pass
6**	16197.000	47.57	6.37	54.0	6.43	AV	215.00	100	Vertical	Pass

A.1.8 Test Antenna Horizontal, 1 GHz – 18 GHz

RE Test case_FCC Part 15B_FCC Part 15B Class B 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1372.600	46.39	-16.23	74.0	27.61	Peak	33.00	100	Horizontal	Pass
1**	1372.600	29.12	-16.23	54.0	24.88	AV	33.00	100	Horizontal	Pass
2	2198.600	41.63	-12.74	74.0	32.37	Peak	80.00	100	Horizontal	Pass
2**	2198.600	31.21	-12.74	54.0	22.79	AV	80.00	100	Horizontal	Pass
3	3402.250	46.45	-6.28	74.0	27.55	Peak	360.00	100	Horizontal	Pass
3**	3402.250	35.24	-6.28	54.0	18.76	AV	360.00	100	Horizontal	Pass
4	5107.000	51.72	-0.56	74.0	22.28	Peak	142.00	100	Horizontal	Pass
4**	5107.000	40.27	-0.56	54.0	13.73	AV	142.00	100	Horizontal	Pass
5	9236.000	54.60	1.96	74.0	19.40	Peak	268.00	100	Horizontal	Pass
5**	9236.000	43.88	1.96	54.0	10.12	AV	268.00	100	Horizontal	Pass
6	16151.500	58.04	5.77	74.0	15.96	Peak	358.00	100	Horizontal	Pass
6**	16151.500	47.34	5.77	54.0	6.66	AV	358.00	100	Horizontal	Pass

Equipment Information						
Equipment Name	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L015	2024.07.09	2025.07.08	☒
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	BH-EMC-L044	2024.03.11	2027.03.10	☒
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	☒
Description	Manufacturer	Name	Version	/		Use
Test Software	BALUN	BL410-E	V21.919	/		☒

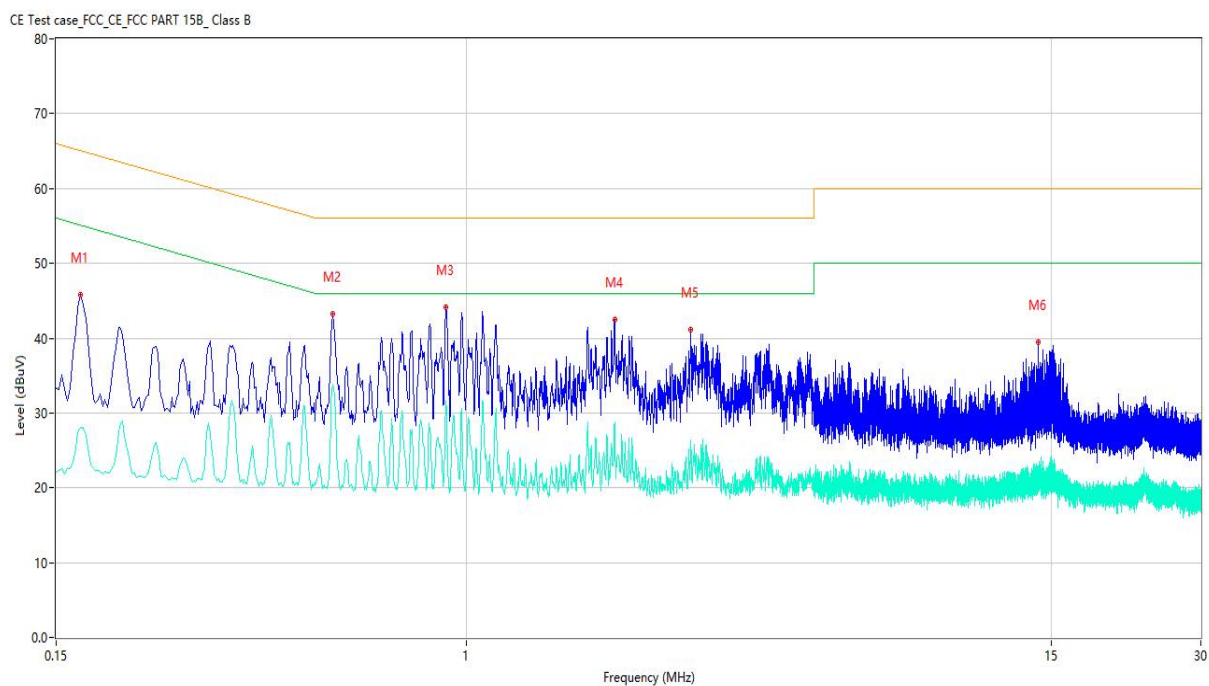
A.2 Conducted emission

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

Sample No.	SC-SH24A0082-S05	Temperature	21.3°C
Humidity	52%RH	Test Voltage	AC 120V/60Hz
Test Engineer	Xu Ying	Test Date	2025.01.02

Test Mode 1

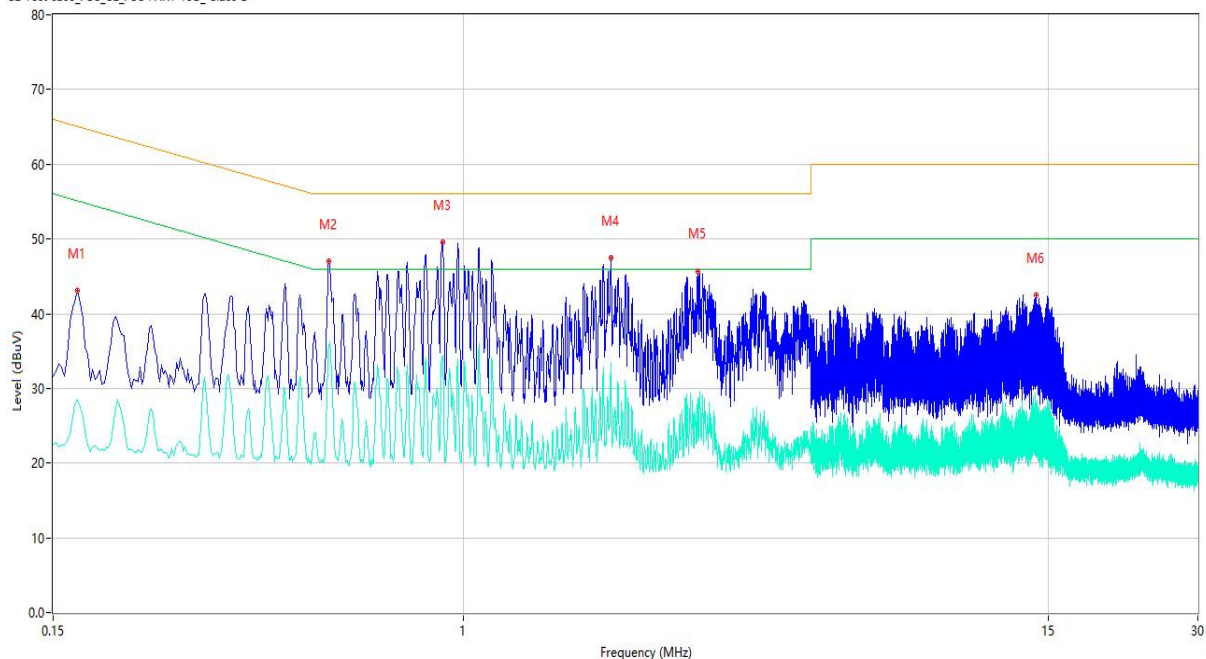
A.2.1 AC ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	45.79	9.75	65.06	19.27	Peak	L	Pass
1**	0.168	28.04	9.75	55.06	27.02	AV	L	Pass
2	0.540	43.22	9.74	56.00	12.78	Peak	L	Pass
2**	0.540	33.76	9.74	46.00	12.24	AV	L	Pass
3	0.912	44.08	9.70	56.00	11.92	Peak	L	Pass
3**	0.912	31.65	9.70	46.00	14.35	AV	L	Pass
4	1.990	42.43	9.68	56.00	13.57	Peak	L	Pass
4**	1.990	28.74	9.68	46.00	17.26	AV	L	Pass
5	2.826	41.12	9.67	56.00	14.88	Peak	L	Pass
5**	2.826	25.48	9.67	46.00	20.52	AV	L	Pass
6	14.160	39.46	9.29	60.00	20.54	Peak	L	Pass
6**	14.160	22.06	9.29	50.00	27.94	AV	L	Pass

A.2.2 AC ports - N Phase

CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	43.02	9.72	65.06	22.04	Peak	N	Pass
1**	0.168	28.47	9.72	55.06	26.59	AV	N	Pass
2	0.538	47.05	9.82	56.00	8.95	Peak	N	Pass
2**	0.538	35.72	9.82	46.00	10.28	AV	N	Pass
3	0.910	49.53	9.86	56.00	6.47	Peak	N	Pass
3**	0.910	34.39	9.86	46.00	11.61	AV	N	Pass
4	1.982	47.40	9.86	56.00	8.60	Peak	N	Pass
4**	1.982	33.43	9.86	46.00	12.57	AV	N	Pass
5	2.964	45.71	9.85	56.00	10.29	Peak	N	Pass
5**	2.964	28.83	9.85	46.00	17.17	AV	N	Pass
6	14.166	42.51	9.55	60.00	17.49	Peak	N	Pass
6**	14.166	27.76	9.55	50.00	22.24	AV	N	Pass

Equipment Information						
Equipment Name	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2024.02.19	2025.02.18	☒
LISN	SCHWARZBECK	NSLK 8127	BH-EMC-L011	2024.02.25	2025.02.24	☒
10dB Limiter	SCHWARZBECK	VTSD 9561-F	BH-EMC-L014	2024.02.19	2025.02.18	☒
Shielded Room	YiHeng	4.1m*4.0m*3.2m	BH-EMC-L006	2024.02.22	2027.02.21	☒
Description	Manufacturer	Name	Version	/		Use
Test Software	BALUN	BL410-E	V21.919	/		☒

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH24B0867-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH24B0867-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH24B0867-AI.PDF”.

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--END OF REPORT--