EMC TEST REPORT

Test item description:	RADIO
FCC ID:	2BR4H-KA200
Trademark(s):	KAITO
Model/Type reference:	KA200, KA200B, KA200S
S/N:	/
Report No.:	CTB25123008402RE01
Applicant's name:	Kaito Electronics, Inc.
Address:	5185 Cliffwood Drive, Montclair, CA 91763, USA
Manufacturer:	SHENZHEN GARRINI ELECTRONICS CO., LTD
Address:	1906, Block 2, Jiazhou Hao Yuan, South Bin He Da Dao, Futian, Shenzhen, China
Prepared by:	Shenzhen CTB Testing Technology Co., Ltd.
Address:	1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China
Date of Receipt:	Dec. 30, 2025
Date of Test(s):	Dec. 30, 2025 ~ Jan. 13, 2026
Date of Issue:	Jan. 13, 2026
Test Standard(s):	CFR47, FCC Part 15 Subpart B, ANSI C63.4: 2014
Test Result:	Pass

In the configuration tested, the EUT complied with the standards specified above.

Compiled by:	Reviewed by:	Approved by:
Black cai	Bin Mei	Rita Xiao

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "★" indicates the testing items were fulfilled by subcontracted lab. "※" indicates the items are not in CNAS accreditation scope.

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1. Description of version

Report No.	Issue Date	Description	Approved
CTB25123008402RE01	Jan. 13, 2026	Original	Valid

2. Test summary

Test procedures according to the technical standards:

Standard	Test Item	Test Result
§15.107	Conducted Emission	N/A
§15.109	Radiated Emission	PASS

3. Measurement uncertainty

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %

Test Item	Frequency	Expanded Uncertainty (U_{Lab})
Conducted Emission	150 kHz to 30 MHz	±3.1 dB
Radiated Emission	30 MHz to 1000 MHz	±4.1 dB
Radiated Emission	1000 MHz to 6000 MHz	±4.8 dB

4. General information

4.1. Description of EUT

Test item description:	RADIO
Trademark(s):	KAITO
Model/Type reference:	KA200
Serial Model No.	KA200B, KA200S
Model Difference	All models have the same circuit, only the model names are different. Test sample model: KA200
Configuration	☒ Table-top ☐ Floor-standing
The highest frequency of the internal sources of the EUT	☐ below 1.705 MHz, the measurement shall only be made up to 30 MHz. ☒ between 1.705 MHz and 108 MHz, the measurement shall only be made up to 1 GHz. ☐ between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. ☐ between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz. ☐ above 1 GHz, the measurement shall be made up to 5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Note: The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

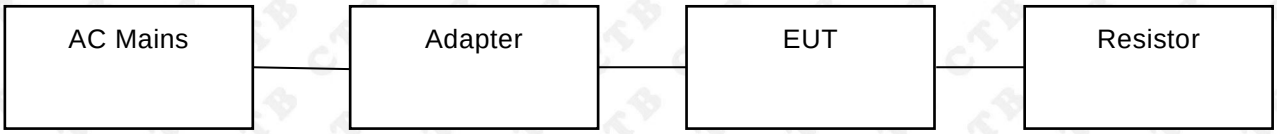
4.2. Description of accessory device

No.	Device Type	Brand	Model	Specification	Note
/	/	/	/	/	/

4.3. Test conditions

Temperature: 15-25℃
Relative Humidity: 30-60 %
Atmospheric pressure: 800hPa-1060hPa

4.4. Block diagram of EUT configuration



4.5. Operating condition of EUT

Operating condition	Mode 1	Working	Test Voltage	/
Note:This test covers all possible operating modes of the device, only the worst data are list in report. The worst data are shows (*)is the nearest standard limit which were recorded in this report.				

5. List of Test and Measurement Instruments

Radiated emission(No.2 Chamber)							
No.	Equipment	Manufacturer	Model No.	Serial No.	Firmware version	Calibrated Date	Calibrated until
1	966 Chamber	C/ R/ T	966	/	/	2024/6/8	2027/6/7
2	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	01911	/	2025/6/1	2026/5/31
3	Broadband Antenna	Schwarzbeck	VULB 9168	1471	/	2025/9/19	2026/9/18
4	Amplifier	Agilent	8449B	3008A01838	/	2025/6/3	2026/6/2
5	Preamplifier	Schwarzbeck	BBV 9743 B	00500	/	2025/5/30	2026/5/29
6	EMI TEST RECEIVER	R&S	ESCI7	100861	/	2025/9/19	2026/9/18
7	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2025/5/23	2026/5/22
8	EMI test software	Farad	EZ-EMC	/	Ver. FARAD-3A1+	/	/
9	Coaxial cable	Rosenberg	8m	/	/	2025/9/19	2026/9/18
10	Coaxial cable	Times	2m	/	/	2025/9/19	2026/9/18
11	Coaxial cable	Times	2m	/	/	2025/9/19	2026/9/18
12	Coaxial cable	Times	1m	/	/	2025/9/19	2026/9/18
13	loop antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2025/6/2	2026/6/1
14	Communication test set	R&S	CMW500	108058	B.19.07 (E1962B)	2025/5/23	2026/5/22
15	Communication test set	Agilent	E5515C	MY50102567	V3.5.80	2025/5/23	2026/5/22

6. Conducted Emission

6.1. Limit

Except for Class A devices:

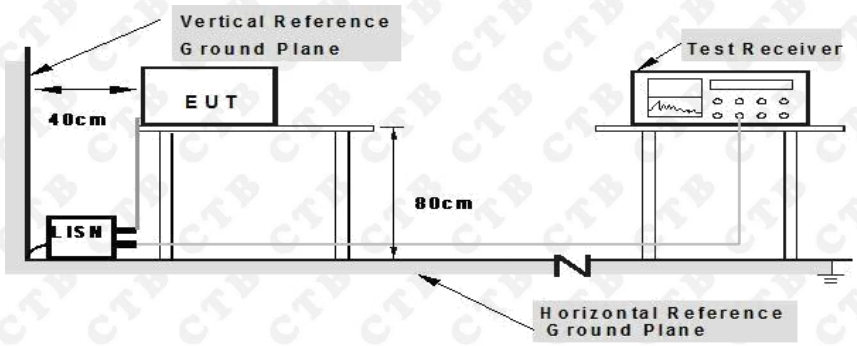
Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Note: Decreases with the logarithm of the frequency.

For Class A devices:

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	79	66
0.5-30	73	60

6.2. Test setup



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

The setup of EUT is according with ANSI C63.4 measurement procedure. Specification used with FCC Part 15 limits.

6.3. EMI test receiver setup

Frequency Range	9kHz-30MHz
Resolution Bandwidth	200Hz (9kHz-150kHz) 9kHz (150kHz-30MHz)

6.4. Test procedure

1. Measurement was performed in shielded room, and instruments used were followed clause 4 of ANSI C63.4.
2. Detailed test procedure was following clause 7 of ANSI C63.4.
3. Frequency range 150kHz – 30MHz was checked and EMI receiver measurement bandwidth was set to 9 kHz.

6.5. Test results

N/A

NOTE: This EUT is powered by DC power only, this test item is not applicable.

7. Radiated emissions

7.1. Limit

Except for Class A devices (at 3m):

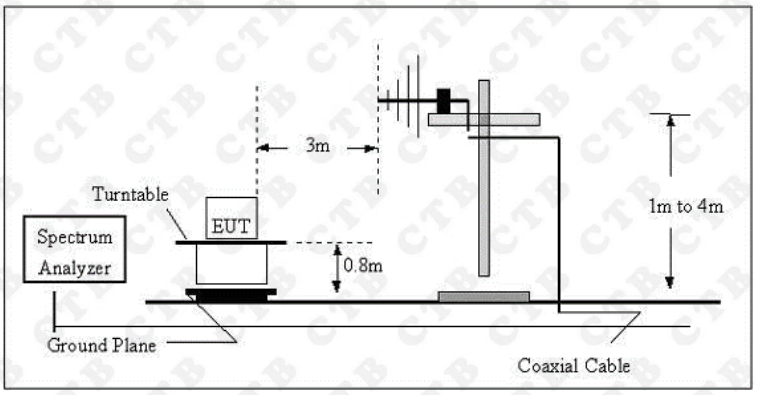
Frequency of emission (MHz)	Field strength (microvolts/meter)	
	(microvolts/meter)	(dBμV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

For Class A devices (at 10m):

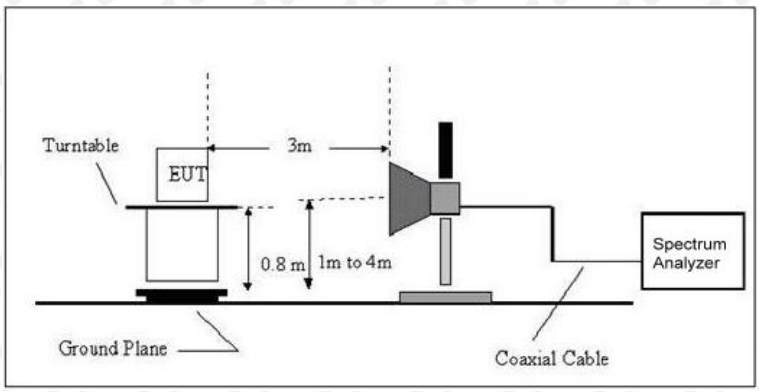
Frequency of emission (MHz)	Field strength (microvolts/meter)	
	(microvolts/meter)	(dBμV/m)
30-88	90	39
88-216	150	43.5
216-960	210	46.4
Above 960	300	49.5

7.2. Test setup

Radiated Emission Test Set-Up Frequency Below 1 GHz



Radiated Emission Test Set-Up Frequency Above 1GHz



The radiated tests were performed in 3 meter Charmber test site, using the setup accordance with the ANSI C63.4:2014.

7.3. EMI test receiver setup and spectrum analyzer setup

During the radiated emission test, the EMI test receiver and Spectrum Analyzer were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30MHz-1000MHz	100kHz	300kHz	120kHz	QP
Above 1GHz	1MHz	3MHz	/	PK
	1MHz	10Hz	/	AVG

7.4. Test procedure

1. The measurement was performed in a semi-anechoic chamber, and instruments used were followed clause 4 of ANSI C63.4

2. Detailed test procedure was following clause 8 of ANSI C63.4.

7.5. Corrected Amplitude & Margin Calculation

1. The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

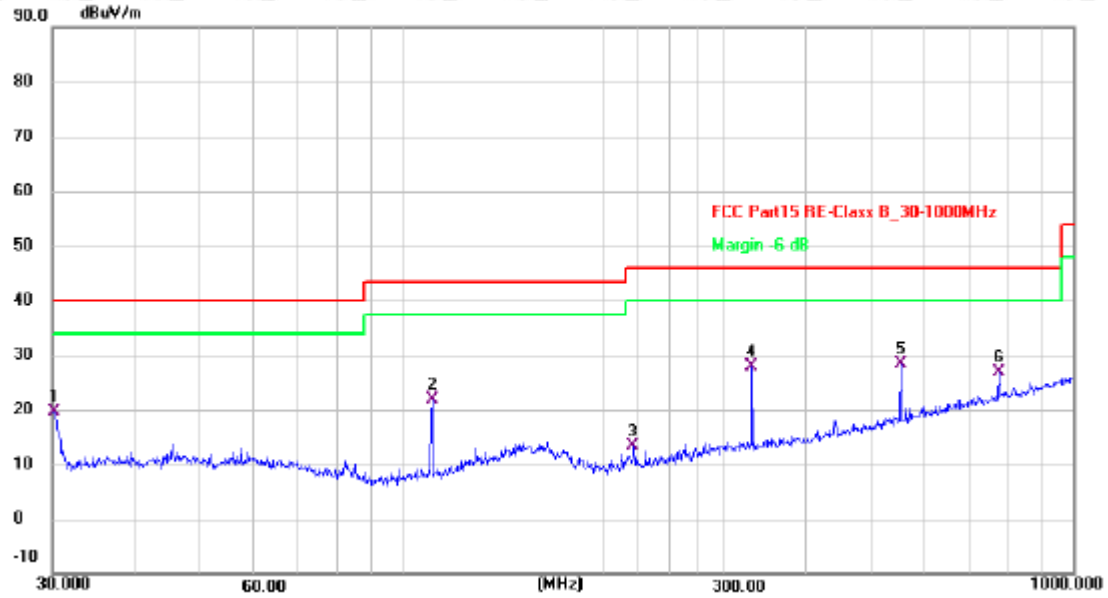
   Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

2. The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

   Margin = Limit – Corrected Amplitude

7.6. Test results

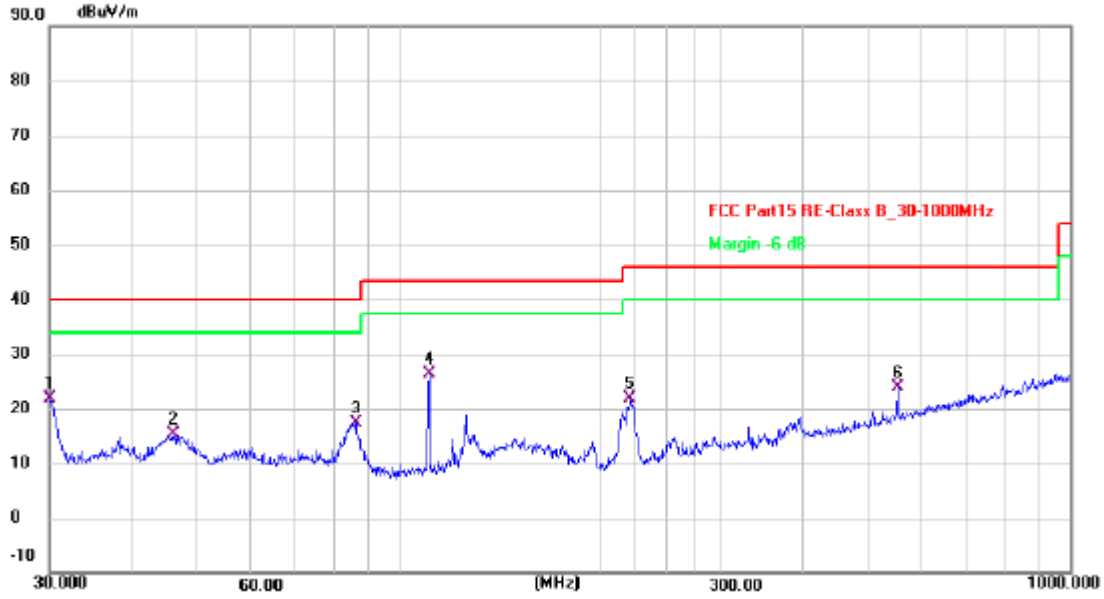
Temperature:	23℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	DC 3V	Test Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.2111	34.48	-14.82	19.66	40.00	-20.34	QP
2	110.5687	39.10	-17.14	21.96	43.50	-21.54	QP
3	220.6171	28.42	-15.03	13.39	46.00	-32.61	QP
4	331.3546	39.51	-11.67	27.84	46.00	-18.16	QP
5 *	552.8832	35.14	-6.78	28.36	46.00	-17.64	QP
6	774.1584	29.57	-2.59	26.98	46.00	-19.02	QP

Note: Result=Reading+Factor
Over Limit=Result-Limit

Temperature:	23℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	DC 3V	Test Mode:	Mode 1

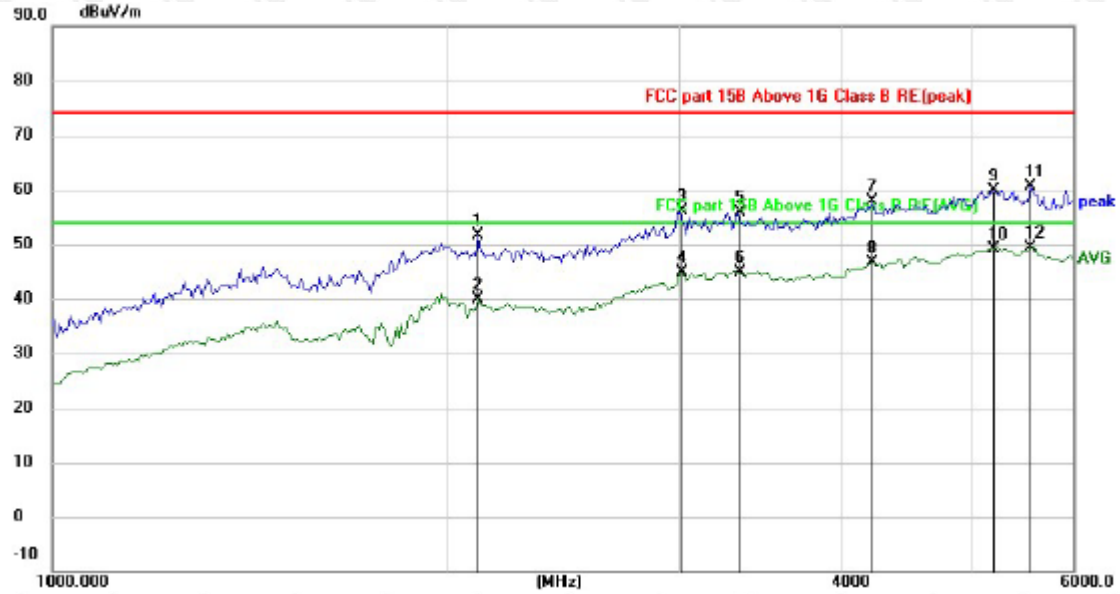


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.0000	36.59	-14.83	21.76	40.00	-18.24	QP
2	46.1779	29.43	-14.13	15.30	40.00	-24.70	QP
3	85.8984	35.42	-17.92	17.50	40.00	-22.50	QP
4 *	110.5687	43.58	-17.14	26.44	43.50	-17.06	QP
5	220.6171	36.84	-15.03	21.81	46.00	-24.19	QP
6	552.8832	30.55	-6.78	23.77	46.00	-22.23	QP

Note: Result=Reading+Factor
Over Limit=Result-Limit

Above 1GHz:

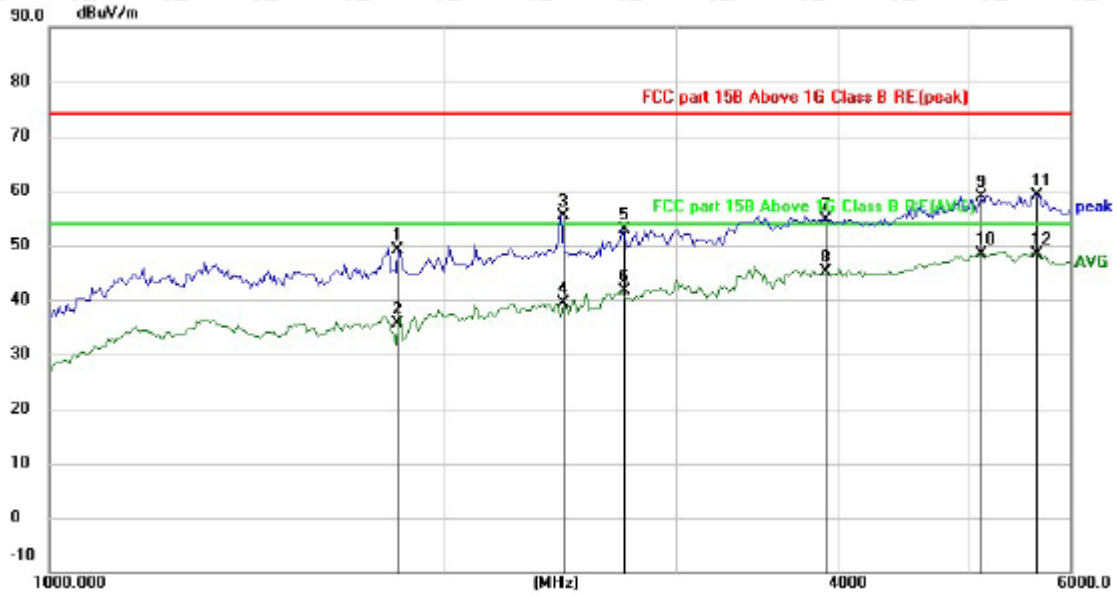
Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	DC 3V	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		2112.896	49.13	2.55	51.68	74.00	-22.32	peak
2		2112.896	37.41	2.55	39.96	54.00	-14.04	AVG
3		3009.976	49.46	6.70	56.16	74.00	-17.84	peak
4		3009.976	38.07	6.70	44.77	54.00	-9.23	AVG
5		3336.620	47.91	7.87	55.78	74.00	-18.22	peak
6		3336.620	37.03	7.87	44.90	54.00	-9.10	AVG
7		4230.695	46.71	11.25	57.96	74.00	-16.04	peak
8		4230.695	35.31	11.25	46.56	54.00	-7.44	AVG
9		5198.753	44.71	15.07	59.78	74.00	-14.22	peak
10		5198.753	34.14	15.07	49.21	54.00	-4.79	AVG
11		5560.064	44.74	15.98	60.72	74.00	-13.28	peak
12	*	5560.064	33.51	15.98	49.49	54.00	-4.51	AVG

Note: Result=Reading+Factor
Over Limit=Result-Limit

Temperature:	24℃	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	DC 3V	Test Mode:	Mode 1

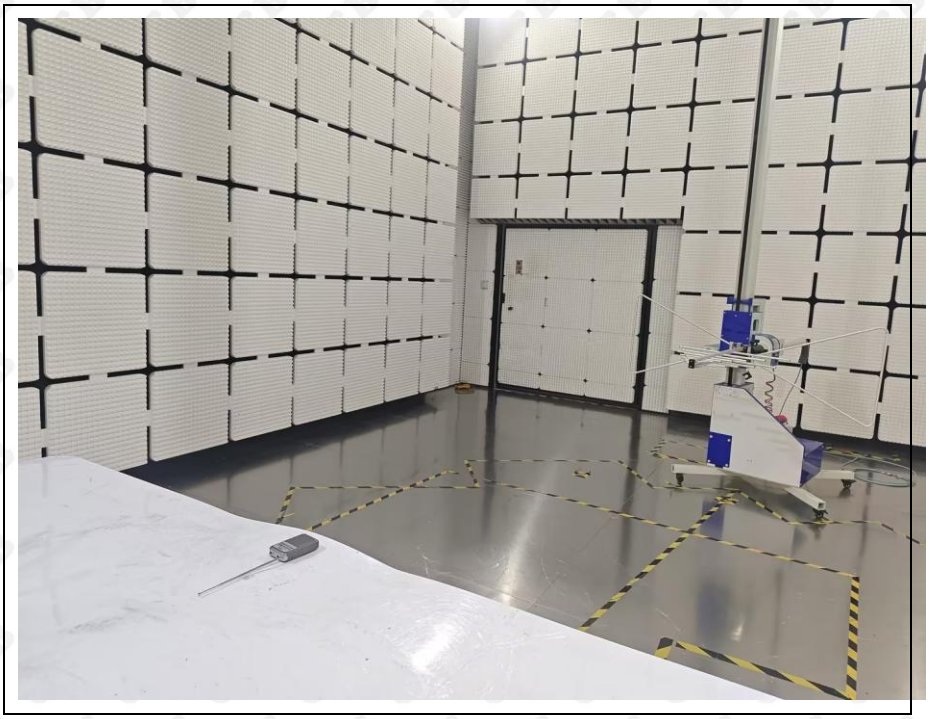


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		1847.212	48.43	0.77	49.20	74.00	-24.80	peak
2		1847.212	34.74	0.77	35.51	54.00	-18.49	AVG
3		2460.487	51.21	4.16	55.37	74.00	-18.63	peak
4		2460.487	35.20	4.16	39.36	54.00	-14.64	AVG
5		2739.745	47.35	5.45	52.80	74.00	-21.20	peak
6		2739.745	36.07	5.45	41.52	54.00	-12.48	AVG
7		3902.968	44.78	9.91	54.69	74.00	-19.31	peak
8		3902.968	35.25	9.91	45.16	54.00	-8.84	AVG
9		5129.358	44.08	14.89	58.97	74.00	-15.03	peak
10		5129.358	33.55	14.89	48.44	54.00	-5.56	AVG
11		5635.286	43.07	16.16	59.23	74.00	-14.77	peak
12	*	5635.286	32.29	16.16	48.45	54.00	-5.55	AVG

Note: Result=Reading+Factor
Over Limit=Result-Limit

8. Photographs of test setup

Radiated Emission



Radiated Emission Above 1GHz

End of report