

FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 7

TEST REPORT

For

BLUETOOTH HEADSET

MODEL NUMBER: TUNE 780NC

REPORT NUMBER: 4791825574-2-EMC-1

ISSUE DATE: July 22, 2025

Prepared for

**HARMAN INTERNATIONAL INDUSTRIES INC
8500 Balboa Blvd Nothridge CA 91329, UNITED STATES**

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	July 22, 2025	Initial Issue	

Summary of Test Results

Emission			
Standard	Test Item	Limit	Result
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 7	Conducted emissions	FCC Part 15.107 ICES-003 Issue 7, Section 3.2.1	Pass (NOTE 1)
	Radiated emissions below 1GHz	FCC Part 15.109 ICES-003 Issue 7, Section 3.2.2	Pass
	Radiated emissions above 1GHz	FCC Part 15.109 ICES-003 Issue 7, Section 3.2.2	Pass (NOTE 2)

Note:

1. This test is only applicable for devices which can be charged or powered by AC main power cable.
2. If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz; If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz; If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz; If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 7> when <Simple Acceptance> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: HARMAN INTERNATIONAL INDUSTRIES INC
Address: 8500 Balboa Blvd Nothridge CA 91329, UNITED STATES

Manufacturer Information

Company Name: HARMAN INTERNATIONAL INDUSTRIES INC
Address: 8500 Balboa Blvd Nothridge CA 91329, UNITED STATES

EUT Information

EUT Name: BLUETOOTH HEADSET
Model: TUNE 780NC
Brand: JBL
Sample Received Date: June 30, 2025
Sample Status: Normal
Sample ID: 8651131
Date of Tested: June 30, 2025 to July 22, 2025

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 7	Pass

Prepared By:



Wite Chen
Engineer Project Associate

Checked By:



Kebo zhang
Operations Leader

Approved By:



Stephen Guo
Operations Manager

2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 7

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p>VCCI (Registration No.: C-20202, G-20240, R-20248 and T-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber E, the VCCI registration No. is G-20240 and R-20248 Shielding Room F, the VCCI registration No. is C-20202 and T-20202</p>
Test Site 2	<p>Guangdong Global Testing Technology Co., Ltd. Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong Pr., China.</p>
Accreditation Certificate	<p>A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd.. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.:CN1343) Guangdong Global Testing Technology Co., Ltd. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p>

Note:

In addition to the RADIATED EMISSIONS BELOW 1GHZ test at Test Site 2, All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions	0.15MHz - 30MHz	2	3.63
Radiated emissions below 1GHz	30MHz -1GHz	2	4.13
Radiated emissions above 1GHz	1GHz - 18GHz	2	5.64
Note1: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.			
Note 2: According to the standard CISPR 16-4-2, the MU for the Conducted emissions from the AC mains power ports using AMN should not exceed 3.8 in range of 9kHz to 150kHz and 3.4 in range of 150kHz to 30MHz. We have considered the test results containing the value of U _{lab} (in dB) for the measurement instrumentation actually used for the measurements.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		BLUETOOTH HEADSET
Model		TUNE 780NC
EUT Classification		Class B
Highest Internal Frequency		2.4GHz
Power Supply	DC	5V
	Battery	3.7Vdc, 690mAh

5.2. TEST MODE

Test Mode	Description
M01	Charging
M02	AUX Playing
M03	BT Playing

5.3. SUPPORT UNITS FOR SYSTEM TEST

The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr./Brand	Model/Type No.	Series No.	Note
E-1	Adapter	HUAWEI	N/A	N/A	UL Support
E-2	Laptop	Lenovo	N/A	N/A	UL Support
E-3	cell phone	Apple	Iphone 11	N/A	UL Support

The following cables were used to form a representative test configuration during the tests.

Item	Type of cable	Shielded Type	Ferrite Core	Specification
C-1	TYPE-C TO AUX cable	NO	NO	1.0 m

6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	101961	Sep. 28, 2024	Sep. 27, 2025
Two-Line V-Network	ROHDE & SCHWARZ	ENV216	101983	Sep. 28, 2024	Sep. 27, 2025
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Sep. 28, 2024	Sep. 27, 2025
Test Software for Conducted Emission	Farad	EZ-EMC	Ver.UL-3A1	N/A	N/A

Test Equipment of Radiated emissions below 1GHz(Test Site 2)					
Equipment	Manufacturer	Model No.	Type No.	Serial No.	Due Date
04-E-RE3-Chamber	Chamber 3	ETS	20.8*12.1*8.9	Q2150	2026.5.29
04-E-RE3-3142E-1	Bilog Antenna	ETS	3142E	00243646	2025.8.16
04-E-RE3-3142E-2	Bilog Antenna	ETS	3142E	00243651	2028.2.21
04-E-RE3-HPA-9K0130-1	Pre-Amplifier	HzEMC	HPA-9K0130	HYP A23022	2025.10.11
04-E-RE3-HPA-9K0130-2	Pre-Amplifier	HzEMC	HPA-9K0130	HYP A23021	2025.10.12
04-E-RE3-ESCI3-1	Receiver	R&S	ESCI3	101308	2025.10.11
04-E-RE3-ESCI3-2	Receiver	R&S	ESCI3	101221	2025.10.11
04-E-RE-EZ-EMC	Test Software	Farad	EZ-EMC 1.1.4.2	N/A	N/A

Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Measurement Receiver	ROHDE & SCHWARZ	ESR26	101377	Sep. 28, 2024	Sep. 27, 2025
Preamplifier	TDK	PA-02-0118	TRS-305-00066	Dec. 27, 2024	Dec. 26, 2025
Preamplifier	TDK	PA-02-2	TRS-307-00003	Sep. 28, 2024	Sep. 27, 2025
Horn Antenna	TDK	HRN-0118	130940	Dec. 12 2024	Dec. 11, 2027
High Gain Horn Antenna	Schwarzbeck	BBHA-9170	697	Jun. 30, 2024	Jun. 29, 2027
Test Software for Radiated Emission	Farad	EZ-EMC	Ver.UL-3A1	N/A	N/A

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.8, 2024	Oct.7, 2025
Barometer	Yiyi	Baro	N/A	Oct.10, 2024	Oct.9, 2025
Attenuator	Agilent	8495B	2814a12853	Sep.28, 2024	Sep.27, 2025

7. EMISSION TEST

7.1. CONDUCTED EMISSIONS

LIMITS

Frequency (MHz)	Class A (dB μ V)		Class B (dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79	66	66 - 56 *	56 - 46*
0.50 -5.0	73	60	56	46
5.0 -30.0	73	60	60	50

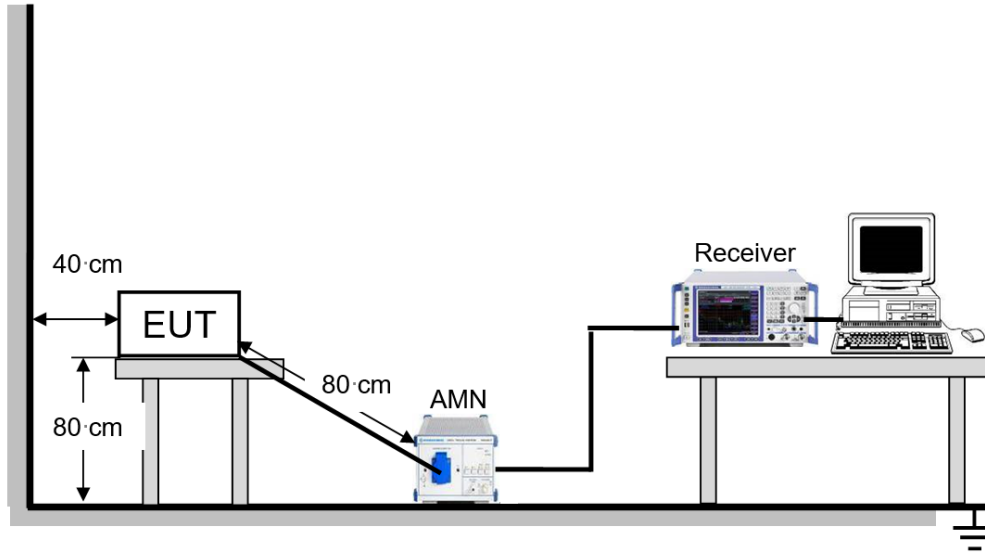
Note:

- (1). The tighter limit applies at the band edges.
- (2). The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

TEST PROCEDURE

- 1) The testing follows the guideline in ANSI C63.4-2014.
- 2) The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- 3) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 4) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 5) Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
- 6) LISN at least 80 cm from nearest part of EUT chassis.
- 7) Conducted emissions from the EUT measured in the frequency range between 0.15MHz and 30MHz using CISPR Quasi-Peak and average detector mode, resolution bandwidth set 9kHz.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4 °C	Relative Humidity	55.9%
Atmosphere Pressure	101kPa		

TEST DATE / ENGINEER

Test Date	July 3 2025	Test By	Deacon Tan
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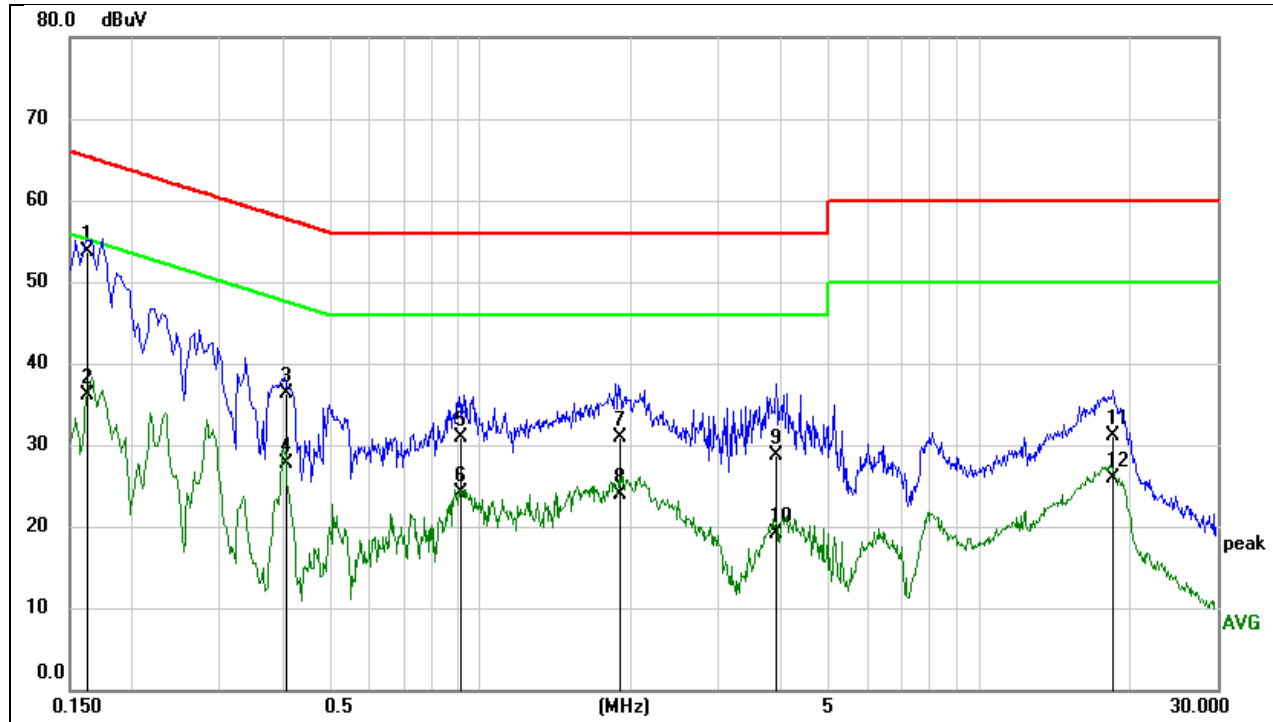
TEST MODE

Pre-test Mode:	M01 ~ M03
Final Test Mode:	M01

Note: All test modes had been tested, but only the worst data recorded in the report.

TEST RESULTS

Test Mode:	M01	Line:	Line
Test Voltage:	AC 120V_60Hz		

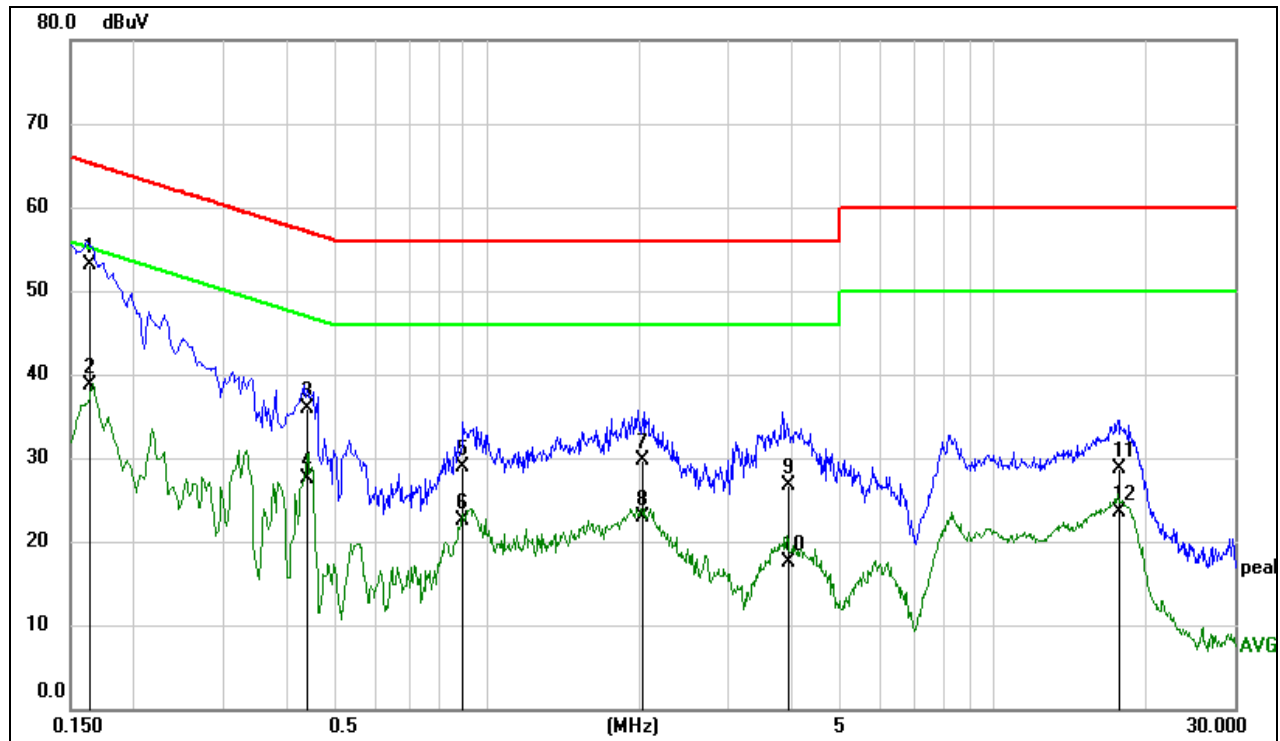


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1621	43.89	9.72	53.61	65.36	-11.75	QP
2	0.1621	26.46	9.72	36.18	55.36	-19.18	AVG
3	0.4092	26.60	9.64	36.24	57.66	-21.42	QP
4	0.4092	18.07	9.64	27.71	47.66	-19.95	AVG
5	0.9130	21.27	9.63	30.90	56.00	-25.10	QP
6	0.9130	14.52	9.63	24.15	46.00	-21.85	AVG
7	1.9162	21.14	9.73	30.87	56.00	-25.13	QP
8	1.9162	14.15	9.73	23.88	46.00	-22.12	AVG
9	3.9400	18.95	9.73	28.68	56.00	-27.32	QP
10	3.9400	9.41	9.73	19.14	46.00	-26.86	AVG
11	18.5158	21.35	9.74	31.09	60.00	-28.91	QP
12	18.5158	16.18	9.74	25.92	50.00	-24.08	AVG

Remark:

1. Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
2. Margin = Result - Limit

Test Mode:	M01	Line:	Neutral
Test Voltage:	AC 120V_60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1637	43.40	9.64	53.04	65.27	-12.23	QP
2	0.1637	29.11	9.64	38.75	55.27	-16.52	AVG
3	0.4388	26.28	9.64	35.92	57.08	-21.16	QP
4	0.4388	17.96	9.64	27.60	47.08	-19.48	AVG
5	0.9008	19.19	9.63	28.82	56.00	-27.18	QP
6	0.9008	12.91	9.63	22.54	46.00	-23.46	AVG
7	2.0292	20.01	9.64	29.65	56.00	-26.35	QP
8	2.0292	13.26	9.64	22.90	46.00	-23.10	AVG
9	3.9283	17.17	9.63	26.80	56.00	-29.20	QP
10	3.9283	7.78	9.63	17.41	46.00	-28.59	AVG
11	17.7261	18.88	9.74	28.62	60.00	-31.38	QP
12	17.7261	13.77	9.74	23.51	50.00	-26.49	AVG

Remark:

1. Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)

2. Margin = Result - Limit

7.2. RADIATED EMISSIONS BELOW 1GHZ

LIMITS

CFR 47 FCC Part 15 Subpart B		
Frequency (MHz)	Field strength (dBuV/m@ 3 m)	
	Class A	Class B
30 - 88	49.5	40
88 - 216	53.9	43.5
216 - 960	56.9	46
Above 960	60	54

ICES-003 Issue 7		
Frequency (MHz)	Field strength (dBuV/m@ 3 m)	
	Class A	Class B
30 - 88	50	40
88 - 216	54	43.5
216 - 230	56.9	46
230 - 960	57	47
Above 960	60	54

Note:

- (1). The tighter limit applies at the band edges
- (2). The different between FCC Part 15 Subpart B limit and ICES-003 Issue 7 limit is only in frequency band 230 MHz to 960 MHz, the limit of FCC Part 15 Subpart B is 1 dB smaller than the limit of ICES-003 Issue 7, if the test result complies with FCC Part 15 Subpart B limit, it deemed to comply with ICES-003 Issue 7 limit.

TEST PROCEDURE

- 1) The testing follows the guidelines in ANSI C63.4-2014.
- 2) The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3) The EUT was placed on a turntable with 80cm above ground.
- 4) The EUT was set 3 meters from the interference receiving antenna, test antenna mast is remotely controlled and can be varied in height form 1m to 4m.
- 5) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 6) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

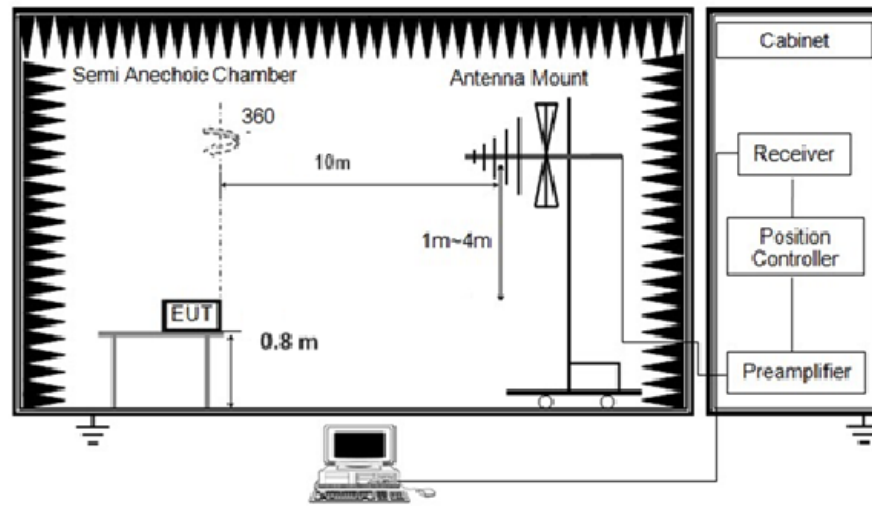
- 7) Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
- 8) For measurement below 1 GHz, the initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

The setting of the spectrum analyser

RBW	100kHz
VBW	300kHz
Detector	Peak / Quasi Peak [#]
Trace	Max hold

[#]: Peak for pre-scan, Quasi Peak for the final result.

TEST SETUP



Below 1 GHz and above 30 MHz

TEST ENVIRONMENT

Temperature	22.6°C	Relative Humidity	61%
Atmosphere Pressure	101kPa		

TEST DATE / ENGINEER

Test Date	July 12, 2025	Test By	Stipe Zheng
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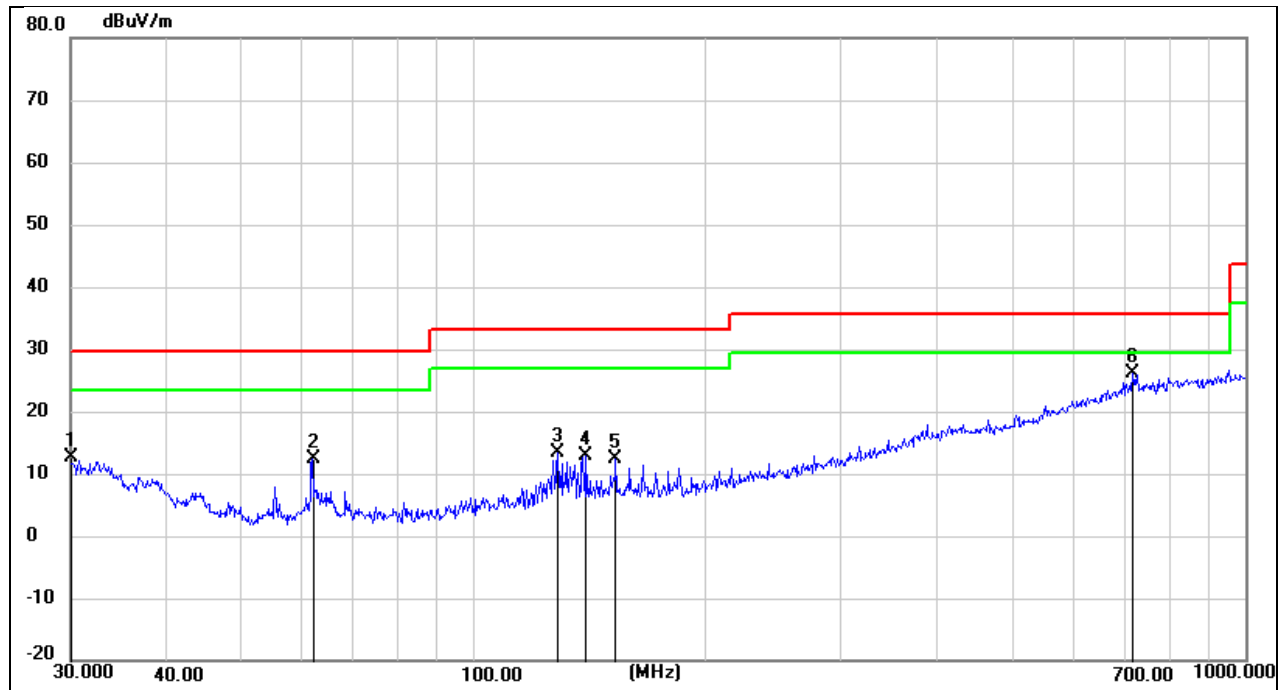
TEST MODE

Pre-test Mode:	M01 ~ M03
Final Test Mode:	M02

Note: All test modes had been tested, but only the worst data recorded in the report.

TEST RESULTS

Test Mode:	M01	Polarity:	Horizontal
Test Voltage:	DC 3.7V		

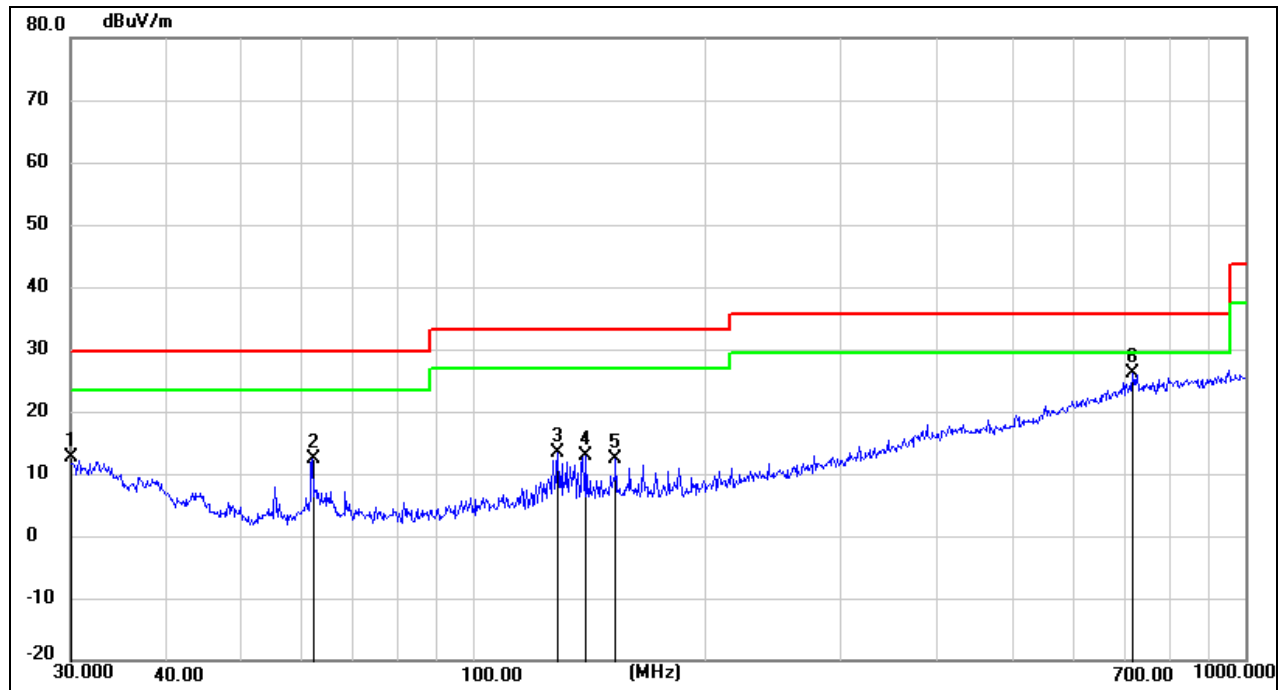


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.0950	29.17	-15.88	13.29	29.50	-16.21	QP
2	73.3593	30.52	-24.90	5.62	29.50	-23.88	QP
3	131.7577	31.46	-23.62	7.84	33.00	-25.16	QP
4	160.9090	30.44	-20.99	9.45	33.00	-23.55	QP
5	383.9318	31.99	-13.06	18.93	35.50	-16.57	QP
6 *	706.7000	32.09	-5.02	27.07	35.50	-8.43	QP

Remark:

1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)
2. Margin = Result - Limit

Test Mode:	M01	Polarity:	Vertical
Test Voltage:	DC 3.7V		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.0000	27.52	-14.92	12.60	29.50	-16.90	QP
2	61.9951	37.46	-25.16	12.30	29.50	-17.20	QP
3	129.0146	37.33	-24.02	13.31	33.00	-19.69	QP
4	139.8508	36.51	-23.71	12.80	33.00	-20.20	QP
5	152.6641	34.38	-21.97	12.41	33.00	-20.59	QP
6 *	714.1734	32.40	-6.19	26.21	35.50	-9.29	QP

Remark:

1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)
2. Margin = Result - Limit

7.3. RADIATED EMISSIONS ABOVE 1GHZ

LIMITS

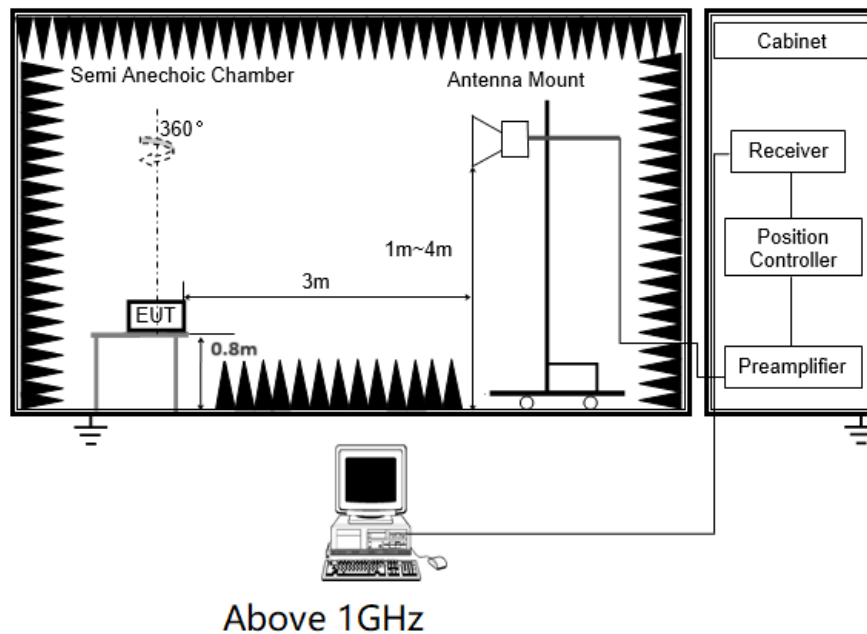
Frequency (MHz)	Field strength (dBuV/m@ 3 m)			
	Class A		Class B	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

TEST PROCEDURE

- 1) The testing follows the guidelines in ANSI C63.4-2014.
- 2) The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3) The EUT was placed on a turntable with 80cm above ground.
- 4) The EUT was set 3 meters from the interference receiving antenna, test antenna mast is remotely controlled and can be varied in height from 1m to 4m.
- 5) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 6) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 7) Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
- 8) For measurement above 1 GHz, the peak emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the peak limit specified in Section 15.109.
If peak result complies with average limit, average result is deemed to comply with average limit.
- 9) The average emission measurement will be measured by the RMS detector and must comply with the average limit specified in Section 15.109.
- 10) The setting of the spectrum analyser

RBW	1MHz
VBW	3MHz
Detector	Peak value: Peak; Average value: RMS
Trace	Max hold

TEST SETUP



TEST ENVIRONMENT

Temperature	23.5°C	Relative Humidity	51.4%
Atmosphere Pressure	101kPa		

TEST DATE / ENGINEER

Test Date	July 16,2025	Test By	Wite Chen
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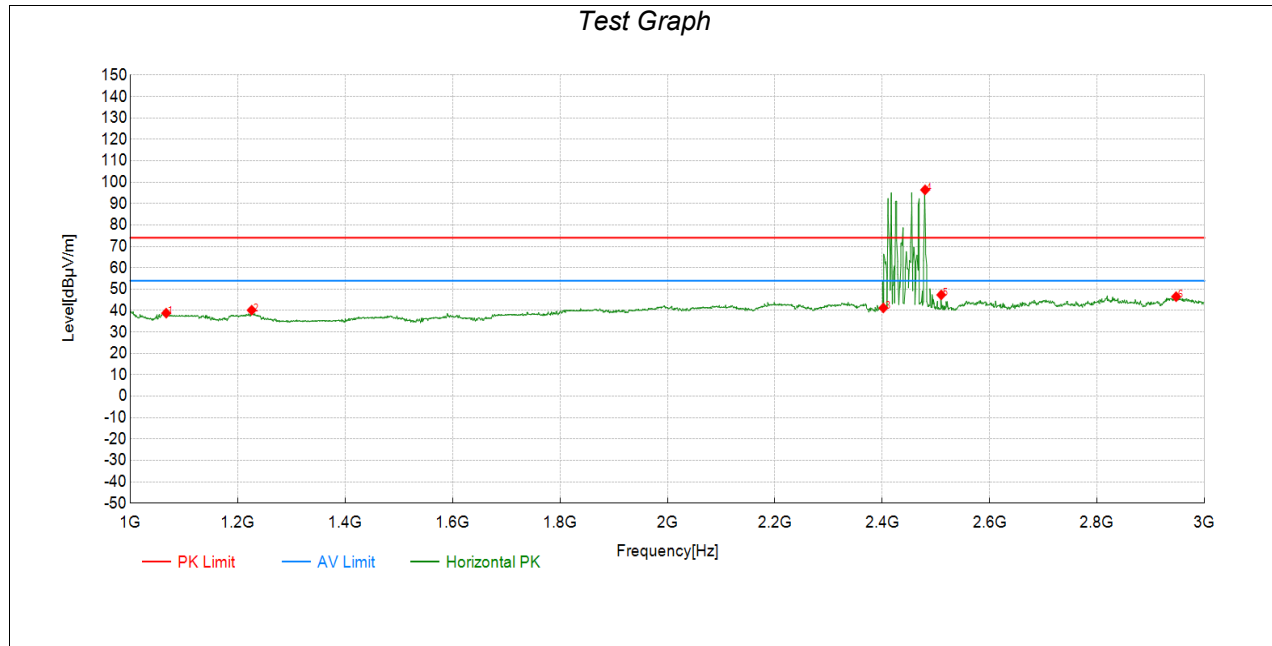
TEST MODE

Pre-test Mode:	M01 ~ M03
Final Test Mode:	M03

Note: All test modes had been tested, but only the worst data recorded in the report.

TEST RESULTS

Test Mode:	M01	Polarity:	Horizontal
Test Voltage:	DC 3.7V		



Suspected Data List

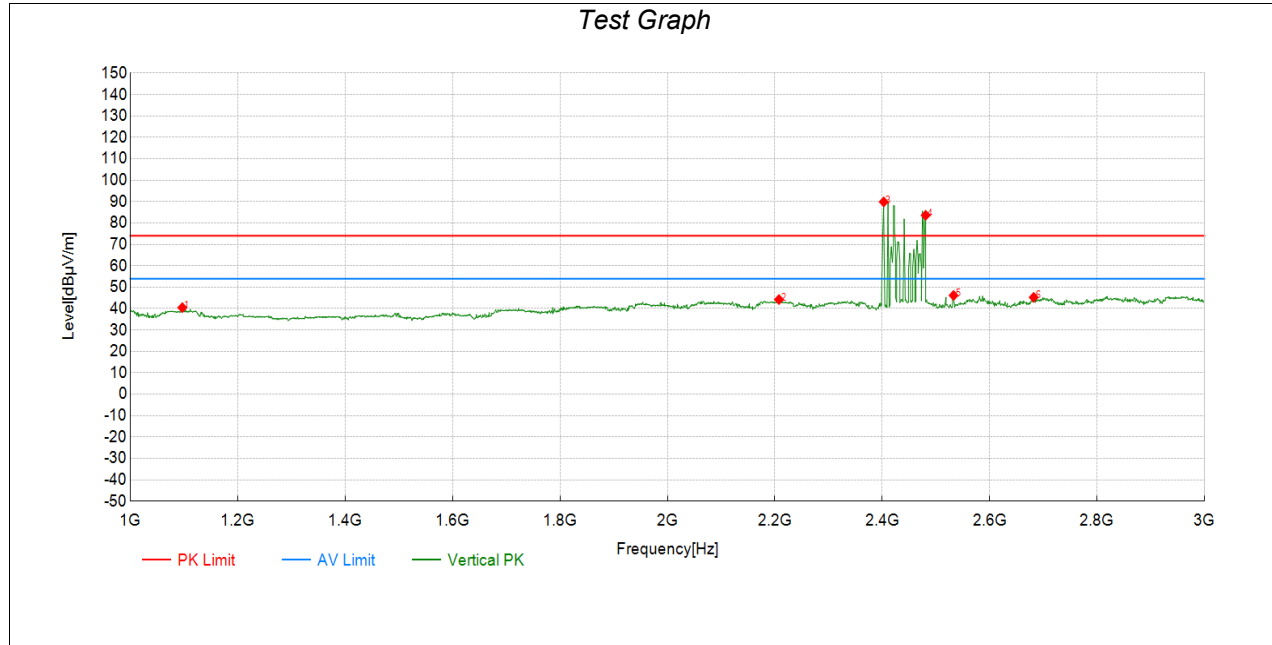
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1067.03	51.00	38.80	-12.20	74.00	35.20	PK	Horizontal	PASS
2	1226.11	52.38	40.21	-12.17	74.00	33.79	PK	Horizontal	PASS
3	2402.00	48.71	41.25	-7.46	/	/	/	/	fundamenta
4	2480.00	103.70	96.42	-7.28	/	/	/	/	fundamenta
5	2509.75	54.53	47.33	-7.20	74.00	26.67	PK	Horizontal	PASS
6	2946.97	52.00	46.51	-5.49	74.00	27.49	PK	Horizontal	PASS

Note: (1) Level = Reading + Factor

(2) Margin = Limit - Level

(3) All the frequencies between mark 3 and mark 4 are the fundamental frequency which were transmitted by wireless module from EUT.

Test Mode:	M01	Polarity:	Vertical
Test Voltage:	DC 3.7V		



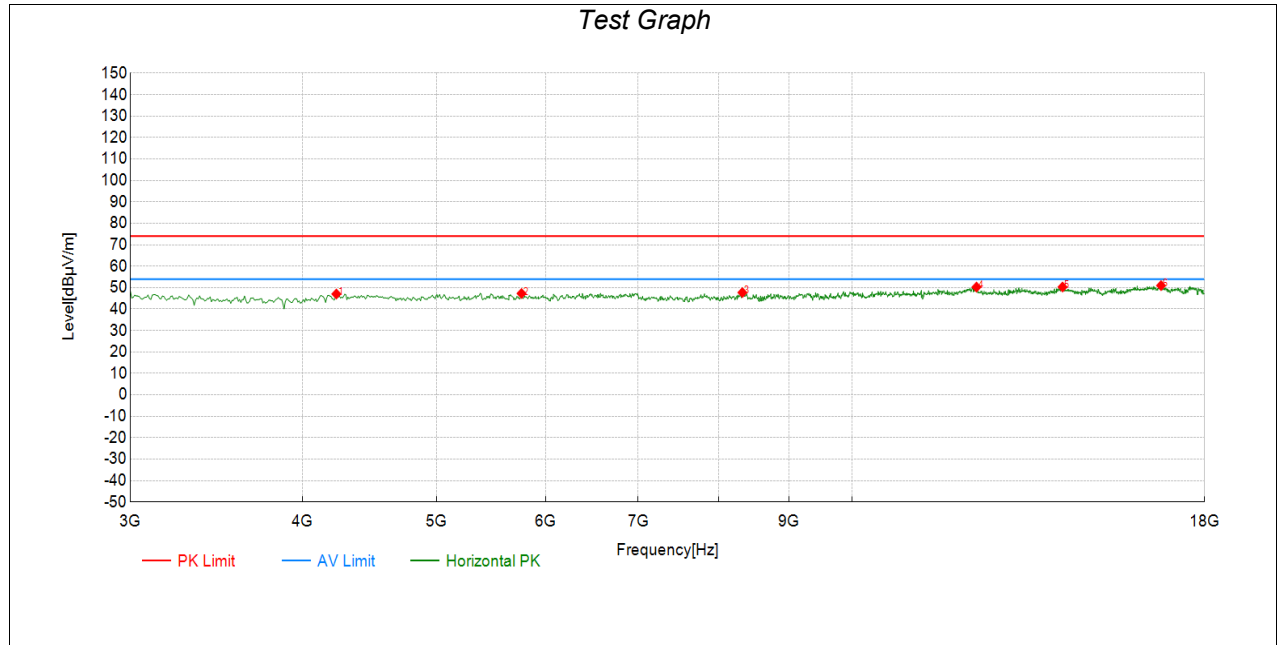
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	1097.05	52.65	40.48	-12.17	74.00	33.52	PK	Vertical	PASS
2	2207.60	51.33	44.25	-7.08	74.00	29.75	PK	Vertical	PASS
3	2402.00	97.33	89.87	-7.46	/	/	/	/	fundamenta
4	2480.00	90.89	83.61	-7.28	/	/	/	/	fundamenta
5	2532.77	53.27	46.16	-7.11	74.00	27.84	PK	Vertical	PASS
6	2681.84	51.72	45.25	-6.47	74.00	28.75	PK	Vertical	PASS

Note: (1) Level = Reading + Factor

(2) Margin = Limit - Level

(3) All the frequencies between mark 3 and mark 4 are the fundamental frequency which were transmitted by wireless module from EUT.

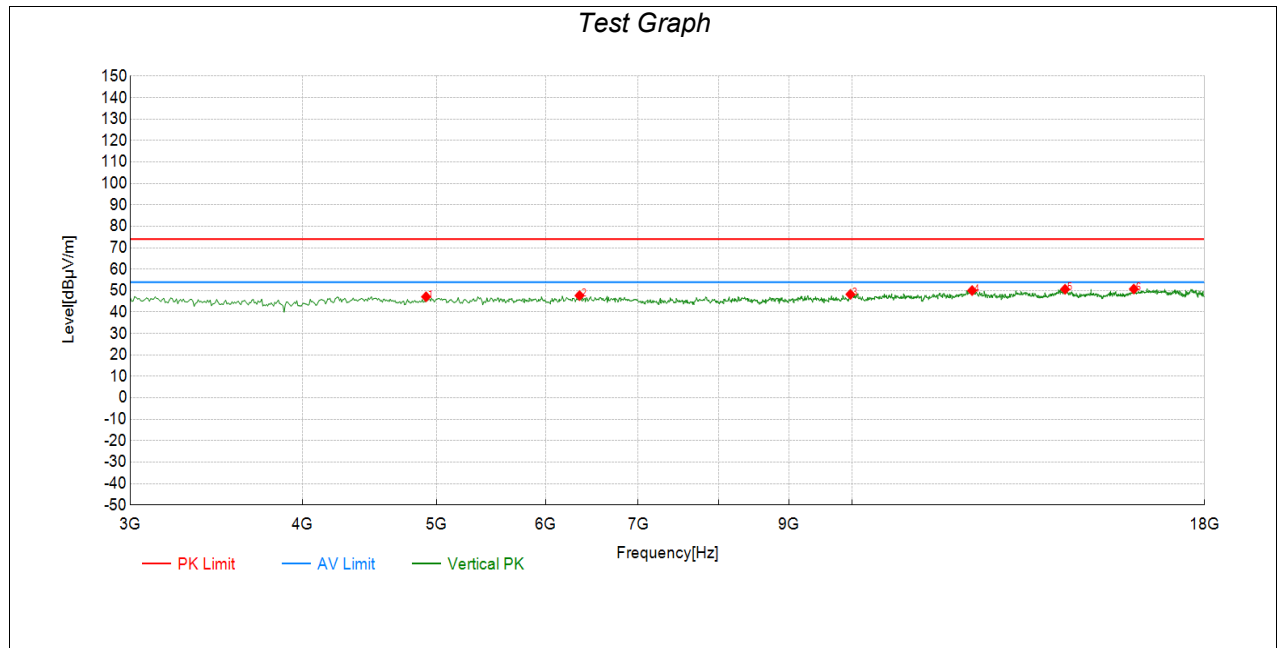
Test Mode:	M01	Polarity:	Horizontal
Test Voltage:	DC 3.7V		



Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4230.62	49.58	47.04	-2.54	74.00	26.96	PK	Horizontal	PASS
2	5761.38	48.86	47.27	-1.59	74.00	26.73	PK	Horizontal	PASS
3	8327.66	44.33	47.71	3.38	74.00	26.29	PK	Horizontal	PASS
4	12304.65	43.96	50.27	6.31	74.00	23.73	PK	Horizontal	PASS
5	14203.10	41.42	50.30	8.88	74.00	23.70	PK	Horizontal	PASS
6	16739.37	40.37	50.95	10.58	74.00	23.05	PK	Horizontal	PASS

Note: (1) Level = Reading + Factor
(2) Margin = Limit - Level

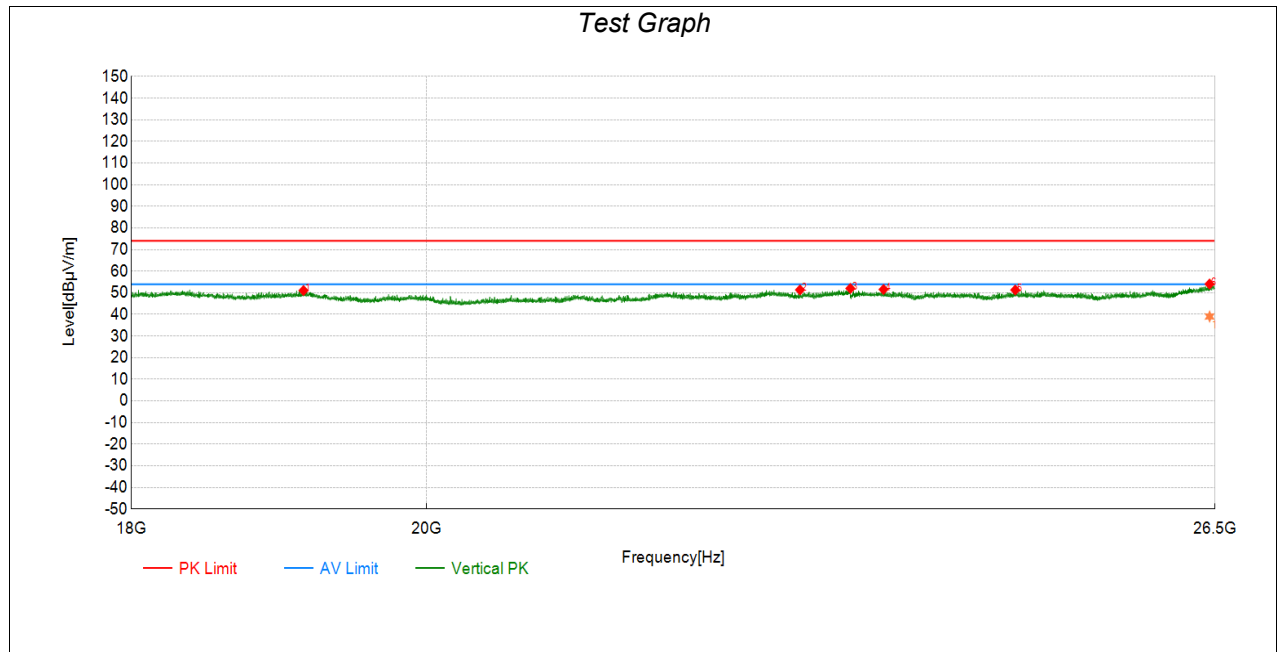
Test Mode:	M01	Polarity:	Vertical
Test Voltage:	DC 3.7V		



Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4913.46	49.91	47.14	-2.77	74.00	26.86	PK	Vertical	PASS
2	6346.67	48.03	47.71	-0.32	74.00	26.29	PK	Vertical	PASS
3	9970.99	43.90	48.26	4.36	74.00	25.74	PK	Vertical	PASS
4	12214.61	43.43	50.04	6.61	74.00	23.96	PK	Vertical	PASS
5	14263.13	42.00	50.64	8.64	74.00	23.36	PK	Vertical	PASS
6	15996.50	41.05	50.72	9.67	74.00	23.28	PK	Vertical	PASS

Note: (1) Level = Reading + Factor
(2) Margin = Limit - Level

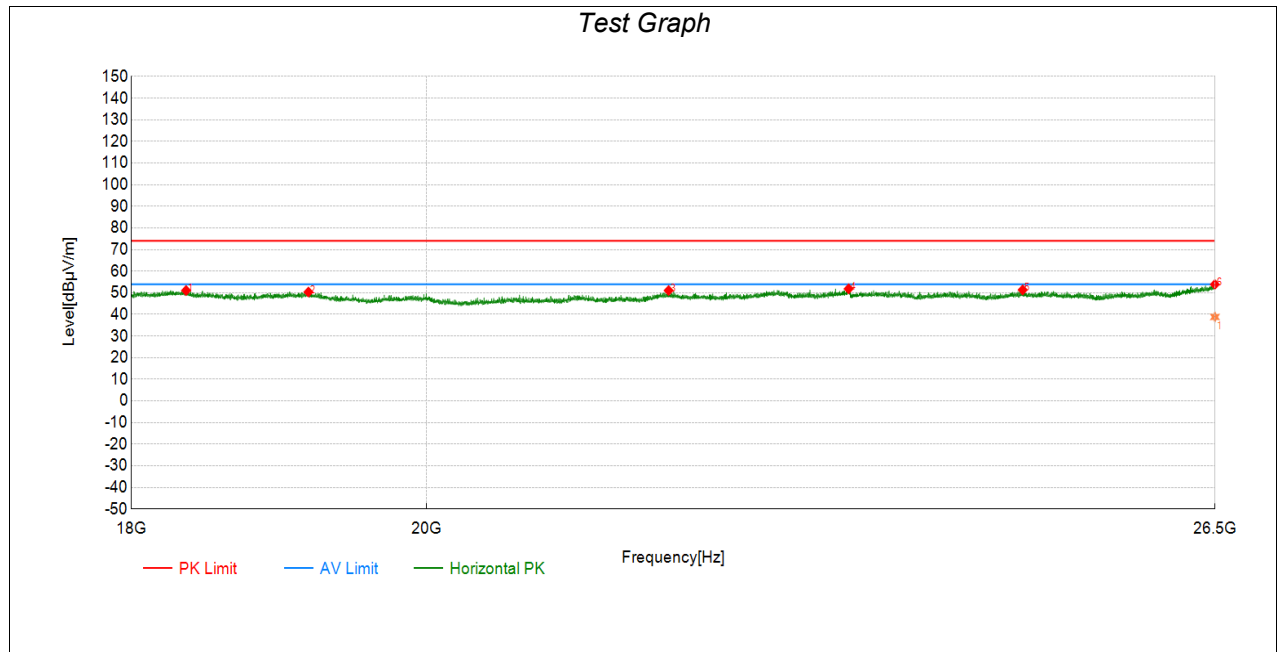
Test Mode:	M01	Polarity:	Vertical
Test Voltage:	DC 3.7V		



Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	19141.55	55.64	51.07	-4.57	74.00	22.93	PK	Vertical	PASS
2	22851.80	56.92	51.35	-5.57	74.00	22.65	PK	Vertical	PASS
3	23266.60	56.88	52.02	-4.86	74.00	21.98	PK	Vertical	PASS
4	23543.70	56.49	51.57	-4.92	74.00	22.43	PK	Vertical	PASS
5	24676.75	55.14	51.32	-3.82	74.00	22.68	PK	Vertical	PASS
6	26448.15	56.15	54.07	-2.08	74.00	19.93	PK	Vertical	PASS

Note: (1) Level = Reading + Factor
(2) Margin = Limit - Level

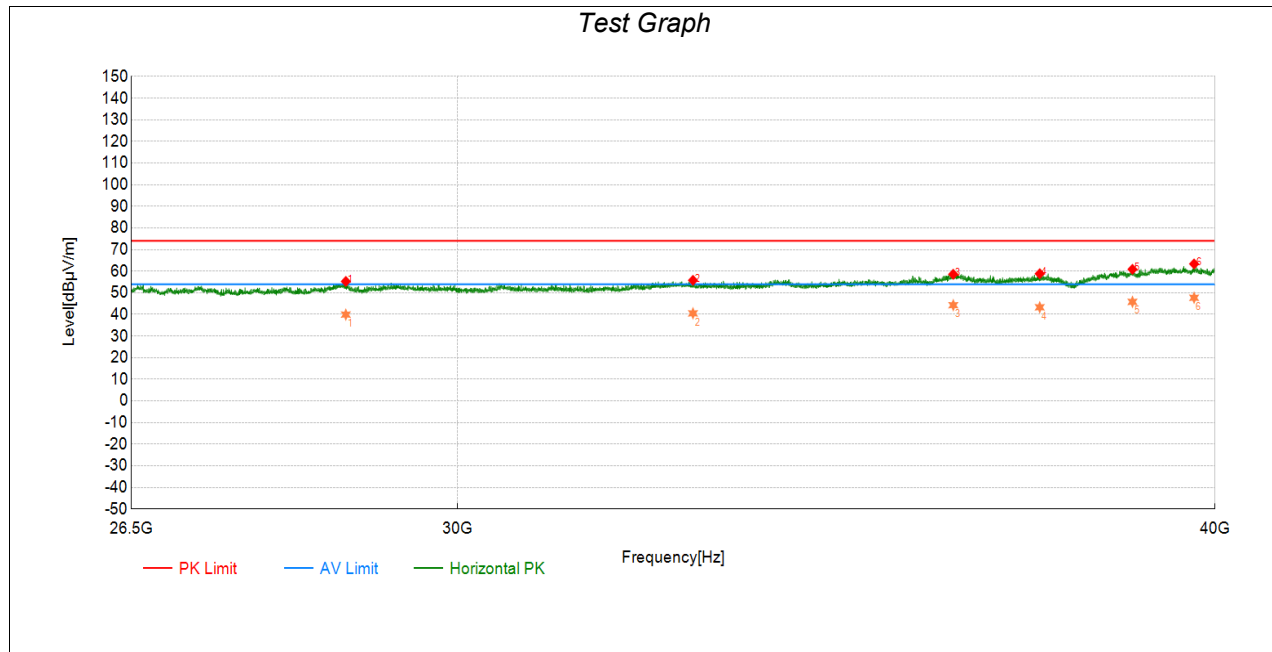
Test Mode:	M01	Polarity:	Horizontal
Test Voltage:	DC 3.7V		



Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	18356.15	55.91	51.07	-4.84	74.00	22.93	PK	Horizontal	PASS
2	19175.55	55.05	50.35	-4.70	74.00	23.65	PK	Horizontal	PASS
3	21805.45	56.79	51.08	-5.71	74.00	22.92	PK	Horizontal	PASS
4	23252.15	56.82	51.85	-4.97	74.00	22.15	PK	Horizontal	PASS
5	24742.20	54.92	51.35	-3.57	74.00	22.65	PK	Horizontal	PASS
6	26498.30	55.81	53.88	-1.93	74.00	20.12	PK	Horizontal	PASS

Note: (1) Level = Reading + Factor
(2) Margin = Limit - Level

Test Mode:	M01	Polarity:	Horizontal
Test Voltage:	DC 3.7V		



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	28751.80	55.32	55.29	-0.03	74.00	18.71	PK	Horizontal	PASS
2	32804.50	55.91	55.78	-0.13	74.00	18.22	PK	Horizontal	PASS
3	36213.25	53.47	58.57	5.10	74.00	15.43	PK	Horizontal	PASS
4	37422.85	54.32	58.84	4.52	74.00	15.16	PK	Horizontal	PASS
5	38764.75	54.47	60.87	6.40	74.00	13.13	PK	Horizontal	PASS
6	39682.75	54.72	63.36	8.64	74.00	10.64	PK	Horizontal	PASS

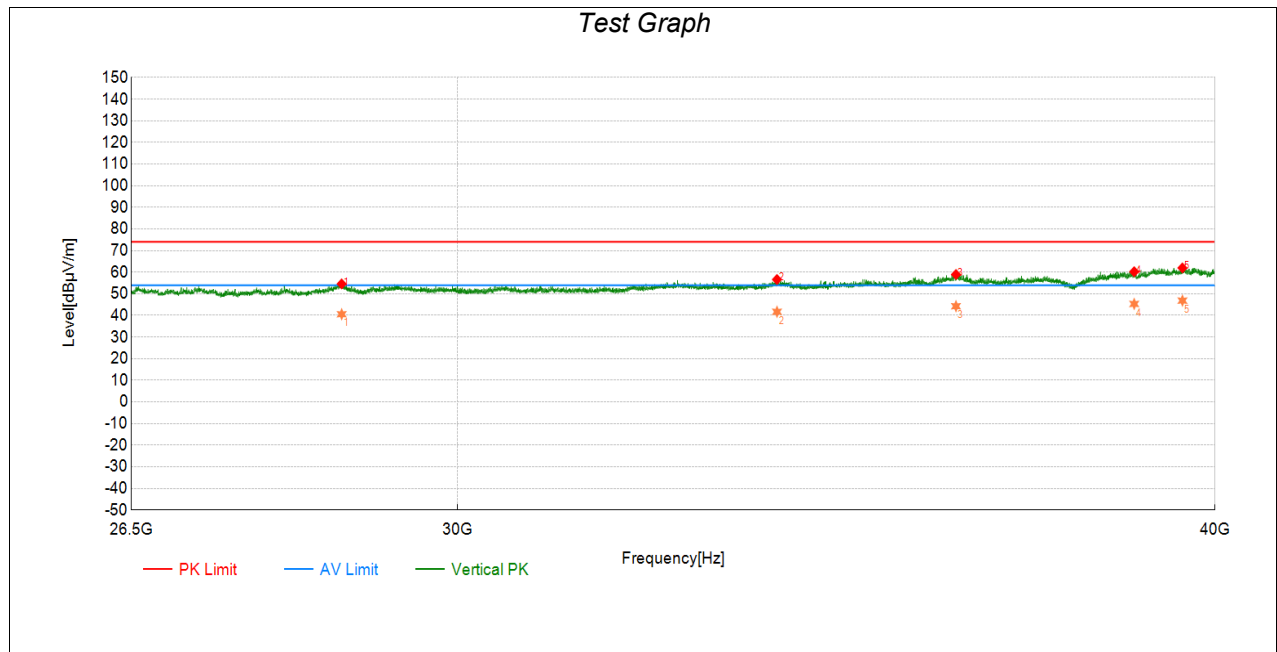
Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	Pol	Verdict
1	28751.31	-0.03	Horizontal	PASS
2	32804.18	-0.13	Horizontal	PASS
3	36213.73	5.10	Horizontal	PASS
4	37422.65	4.52	Horizontal	PASS
5	38764.35	6.40	Horizontal	PASS
6	39682.60	8.64	Horizontal	PASS

Note: (1) Level = Reading + Factor

(2) Margin = Limit - Level

Test Mode:	M01	Polarity:	Vertical
Test Voltage:	DC 3.7V		



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	28705.90	54.32	54.58	0.26	74.00	19.42	PK	Vertical	PASS
2	33868.30	54.93	56.63	1.70	74.00	17.37	PK	Vertical	PASS
3	36251.05	53.63	58.93	5.30	74.00	15.07	PK	Vertical	PASS
4	38790.40	53.94	60.23	6.29	74.00	13.77	PK	Vertical	PASS
5	39507.25	53.54	61.97	8.43	74.00	12.03	PK	Vertical	PASS

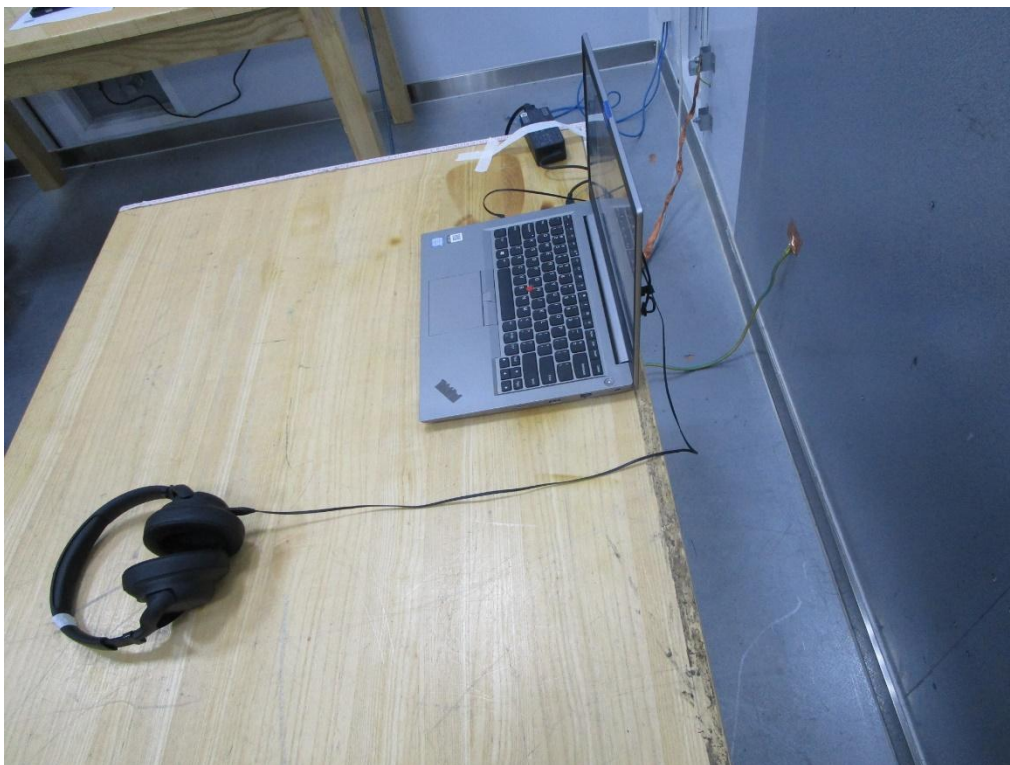
Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	Pol	Verdict
1	28706.26	0.26	Vertical	PASS
2	33868.13	1.70	Vertical	PASS
3	36250.72	5.30	Vertical	PASS
4	38789.95	6.29	Vertical	PASS
5	39507.67	8.43	Vertical	PASS

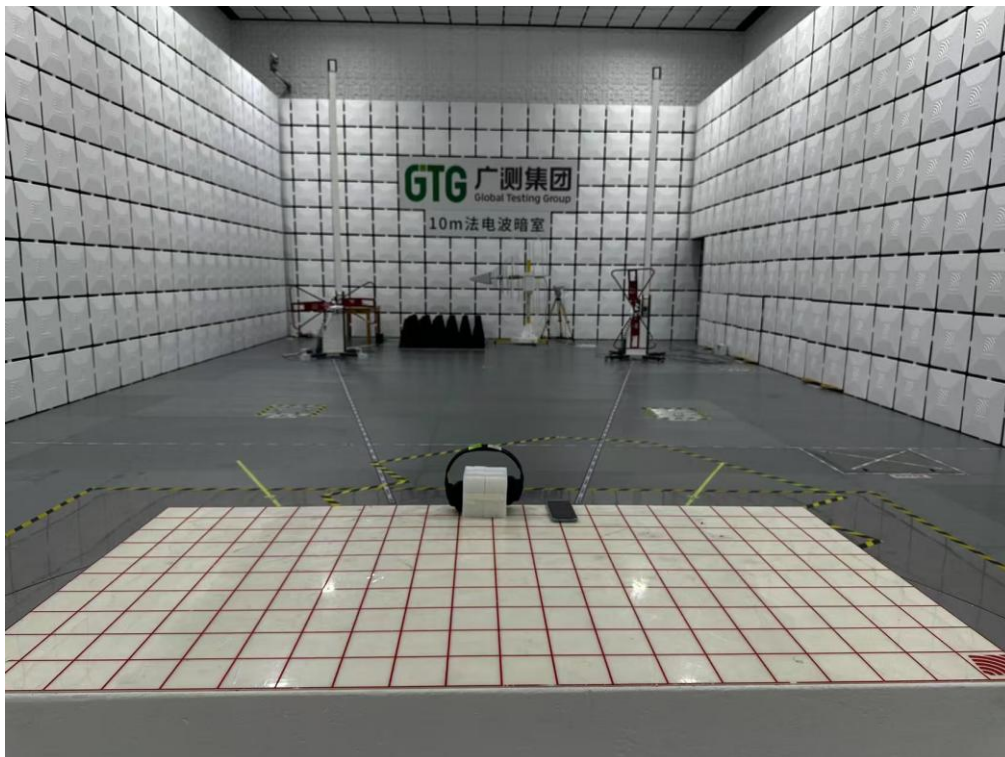
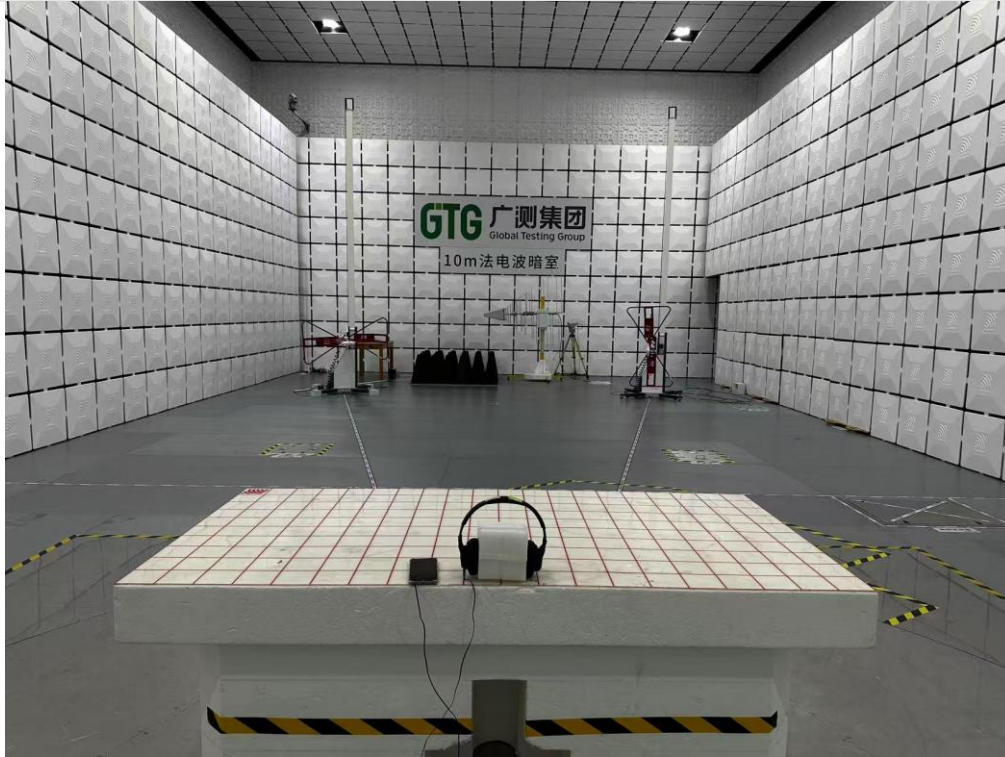
Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

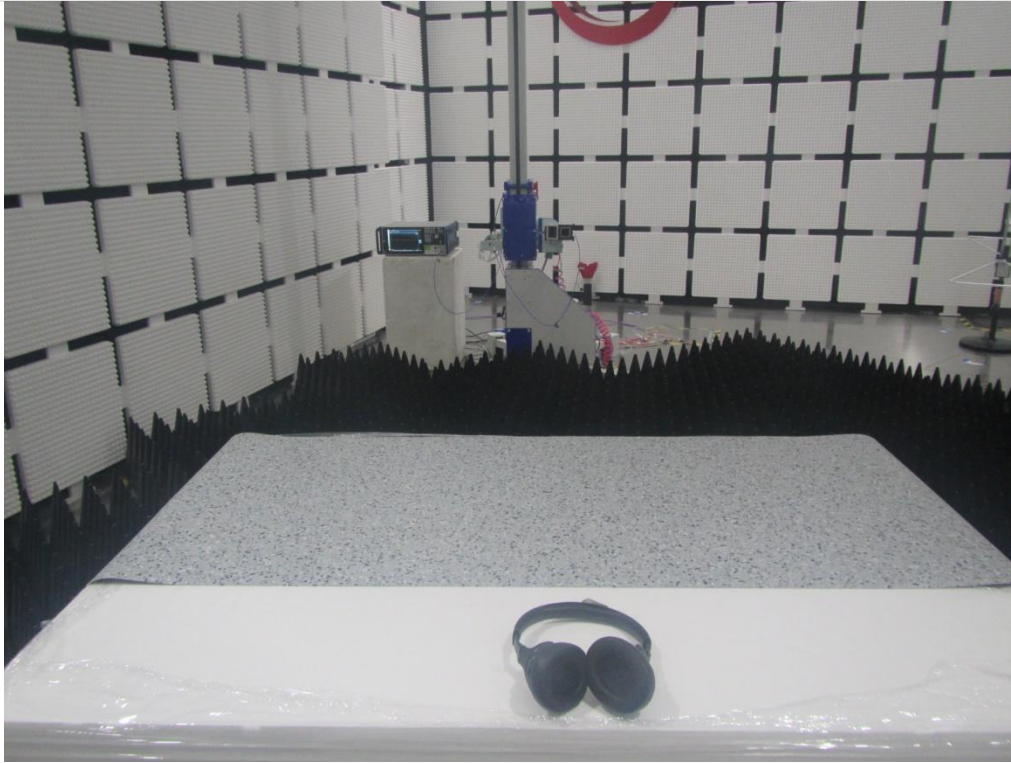
Conducted emissions



Radiated emissions below 1GHz



Radiated emissions above 1GHz



APPENDIX: PHOTOGRAPHS OF THE EUT

External



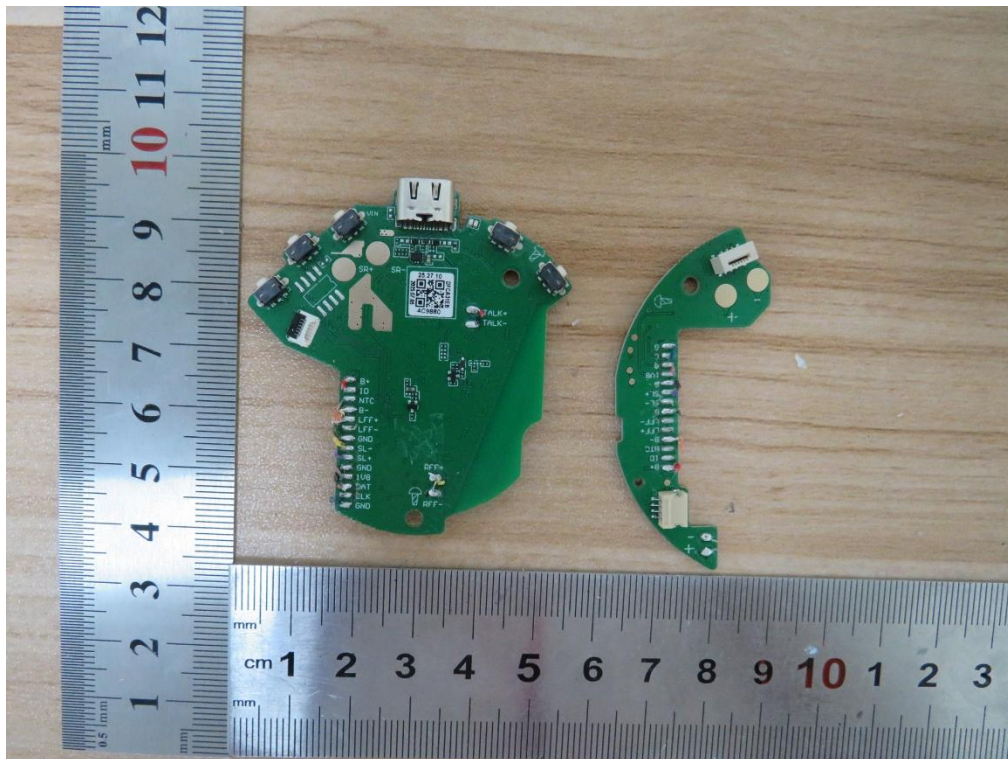


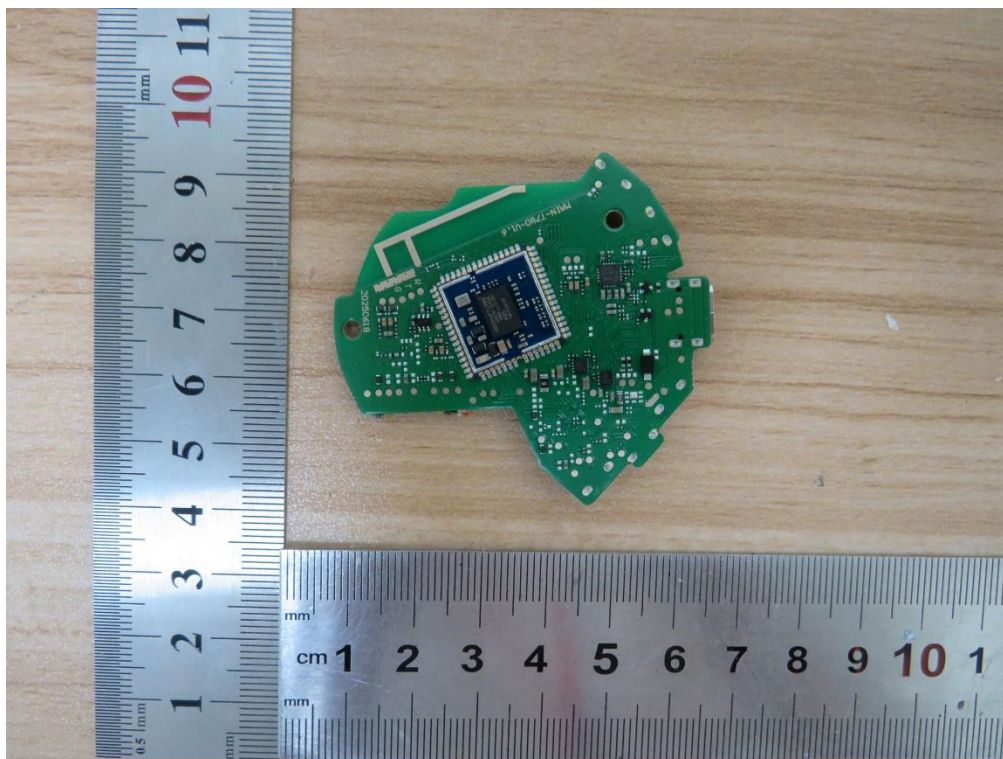
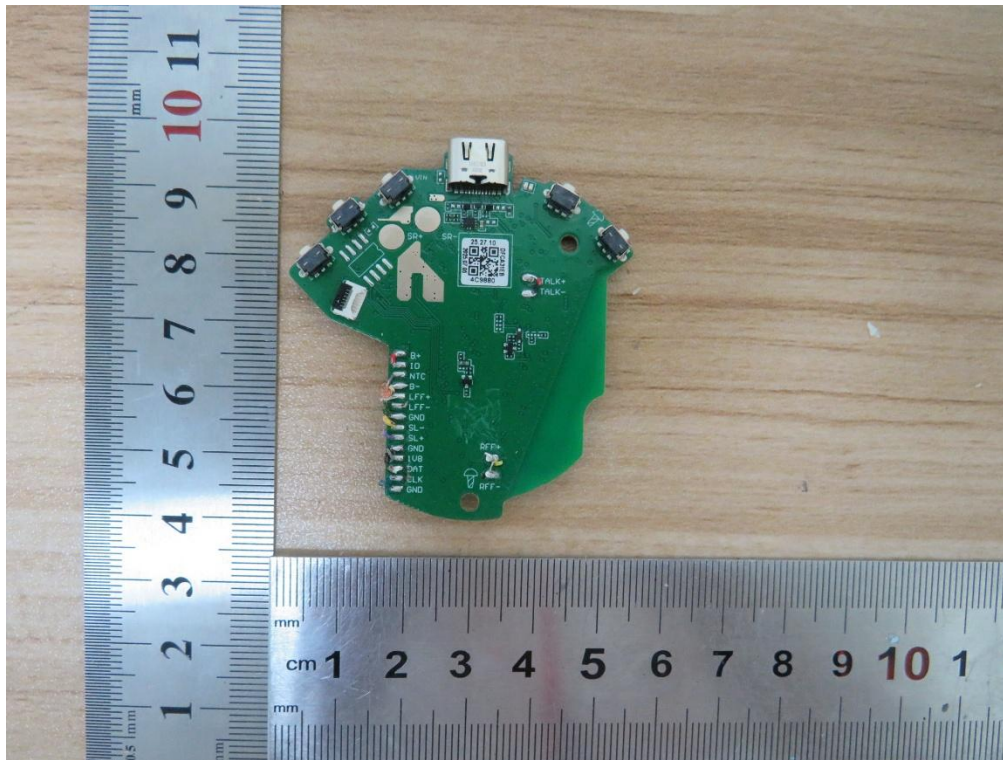


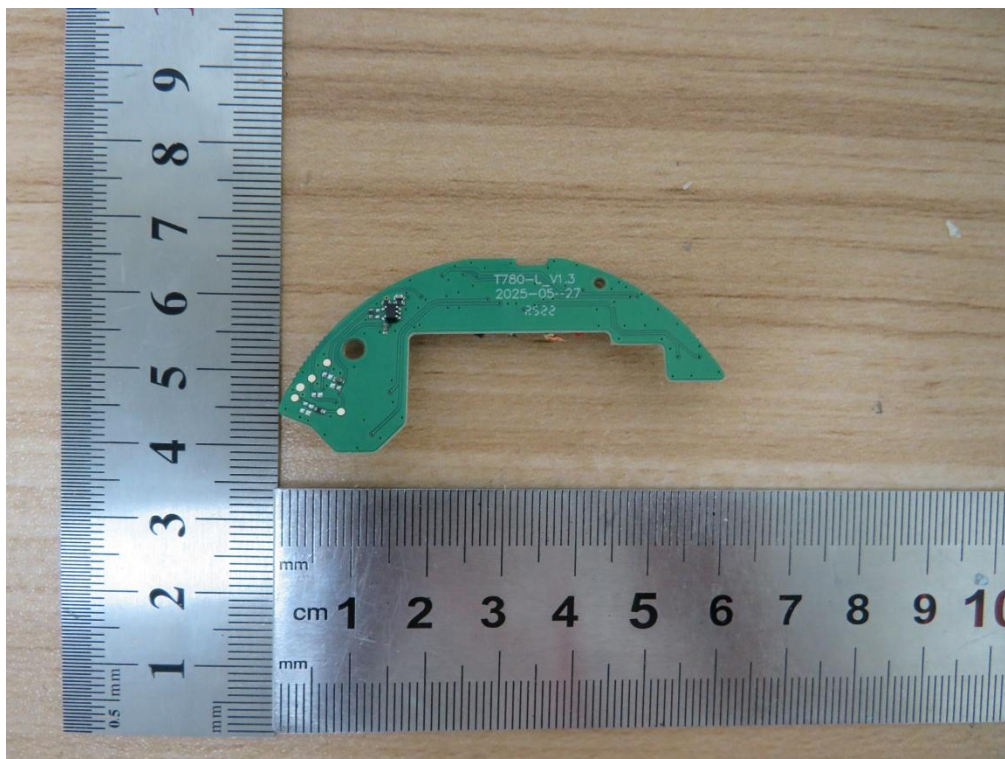
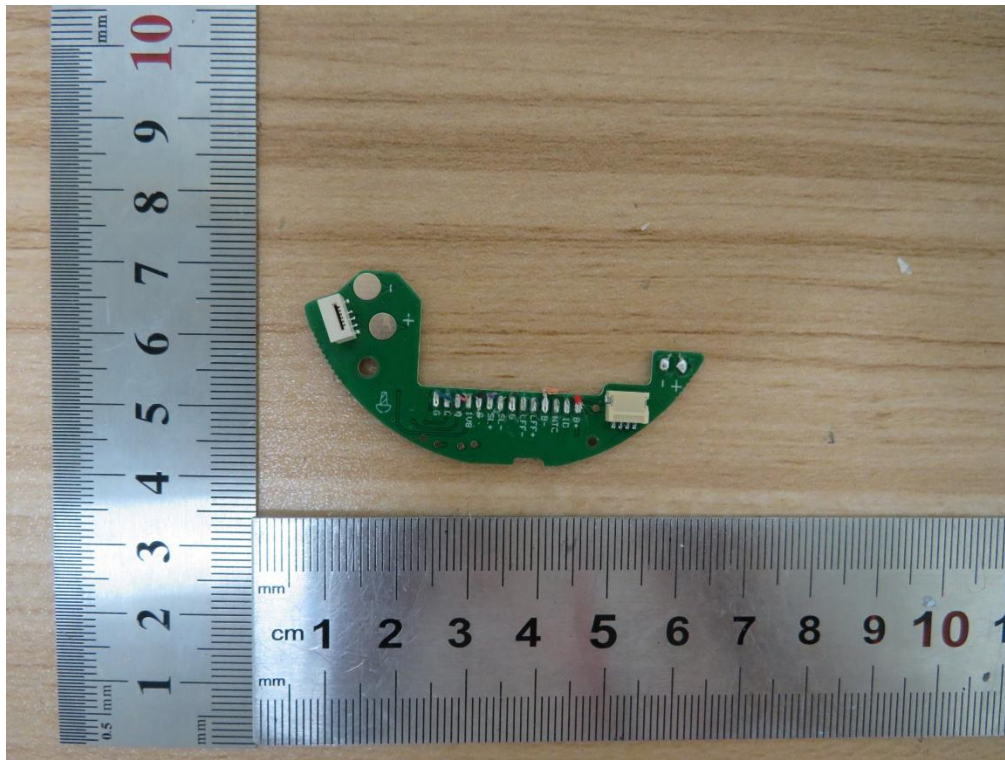


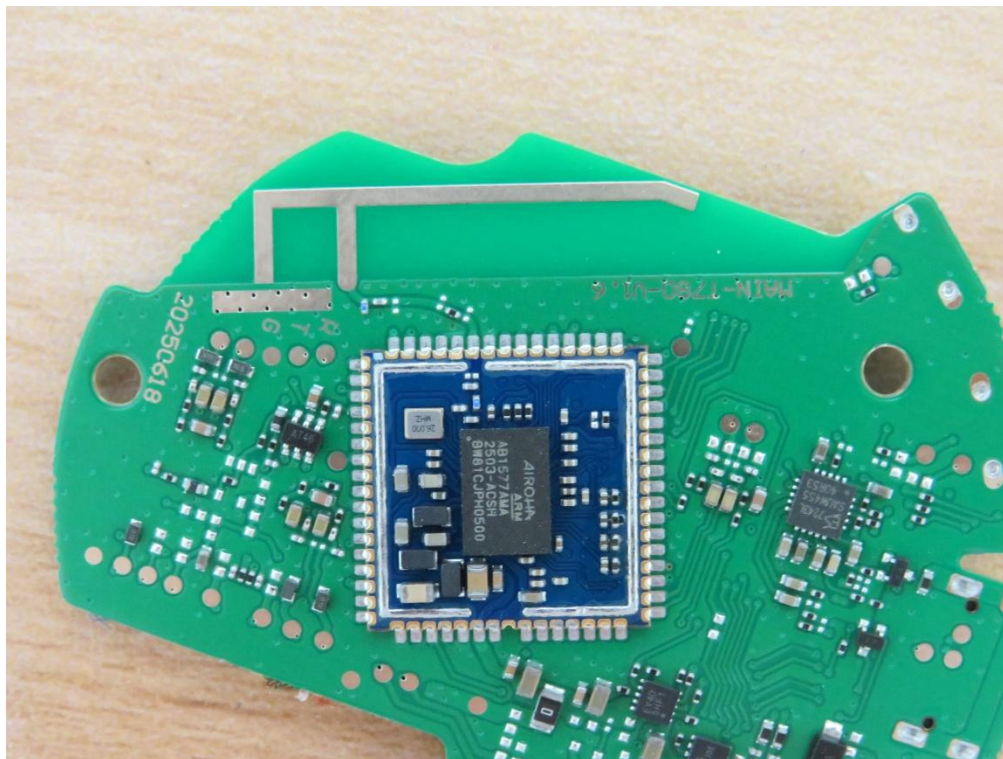
Internal











END OF REPORT