



# TEST REPORT

**APPLICANT** : Rhino Mobility LLC  
**PRODUCT NAME** : Smartphone  
**MODEL NAME** : C6-ROW  
**BRAND NAME** : RHINO  
**FCC ID** : 2AUOUC6-ROW  
**STANDARD(S)** : 47 CFR Part 15 Subpart C  
**RECEIPT DATE** : 2025-07-02  
**TEST DATE** : 2025-07-17 to 2025-08-01  
**ISSUE DATE** : 2025-08-20

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Change History		
Version	Date	Reason for change
1.0	2025-08-20	First edition



# 1. Technical Information

**Note:** Provide by applicant.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	Rhino Mobility LLC
<b>Applicant Address:</b>	8 The Green, Suite A, Dover, Delaware, 19901, USA
<b>Manufacturer:</b>	Rhino Mobility LLC
<b>Manufacturer Address:</b>	8 The Green, Suite A, Dover, Delaware, 19901, USA

## 1.2. Equipment Under Test (EUT) Description

<b>Product Name:</b>	Smartphone
<b>Sample No.:</b>	4#, 5#, 6#
<b>Hardware Version:</b>	Q6010W_MB_V1.0
<b>Software Version:</b>	C6W(001)_20250220
<b>Operating Frequency:</b>	13.56MHz
<b>Modulation Type:</b>	ASK
<b>Antenna Type:</b>	PIFA Antenna
<b>Field Strength@10m</b>	-11.22dB $\mu$ V/m
<b>Accessory Information:</b>	Battery
	Brand Name: N/A
	Model No.: BPC6
	Serial No.: N/A
	Capacity: 3950mAh
	Rated Voltage: 3.87V
	Charge Limit: 4.45V
	Manufacturer: Phenix New Energy (Huizhou) Co., Ltd.
	AC Adapter 1
	Brand Name: RHINO
	Model No.: PS18B120K1500EU
	Serial No.: N/A
	Rated Output: 5.0V=3.0A, 9.0V=2.0A, 12.0V=1.5A,
	Rated Input: 100-240V~50/60Hz, 0.5A
	Manufacturer: Shenzhen Flypower Technology Co., Ltd.
AC Adapter 2	



	Brand Name:	RHINO
	Model No.:	TPA-38F120150BU01
	Serial No.:	N/A
	Rated Output:	5.0V=3.0A, 9.0V=2.0A, 12.0V=1.5A,
	Rated Input:	100-240V~50/60Hz, 0.6A
	Manufacturer:	Shenzhen Tianyin Electronics Co., Ltd.
	USB Cable 1	
	Model No.:	USB TYPE A TO C 2.0 Cable 1.0m
	Manufacturer:	HUIZHOU WASHIN ELECTRONICS CO.,LTD.
	USB Cable 2	
	Model No.:	USB TYPE C to C 2.0 Cable (1.0m)
	Manufacturer:	HUIZHOU WASHIN ELECTRONICS CO.,LTD.

**Note 1:** The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



## 1.3. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-15 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	/
2	15.207	Conducted Emission	Jul. 17, 2025	Wang Deyong	PASS	/
3	15.209 15.225(a) (b) (c)(d)	Radiated Emission	Jul. 22, 2025	Li Hanbin	PASS	/
4	15.225(e)	Frequency Tolerance	Aug. 01, 2025	Zhu Peihong	PASS	/
5	15.215(c)	20dB Bandwidth	Jul. 22, 2025	Li Hanbin	PASS	/

**Note 1:** The tests were performed according to the method of measurements prescribed in ANSI C63.10-2020. The EUT has been tested under continuous operating condition.

**Note 2:** Any additions, deviation, or exclusions from the method shall be noted in the "Remark".

## 1.4. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106



## 2. 47 CFR Part 15C Requirements

### 2.1. Antenna Requirement

#### 2.1.1. Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### 2.1.2. Test Result: Compliant

Antenna location	Antenna Type	Coupling Method
<input checked="" type="checkbox"/> Internal <input type="checkbox"/> External	<input type="checkbox"/> FPC Antenna <input type="checkbox"/> Spring Antenna <input type="checkbox"/> Ceramic Antenna <input type="checkbox"/> Integrated Antenna <input type="checkbox"/> Dipole Antenna <input type="checkbox"/> PCB Antenna <input checked="" type="checkbox"/> PIFA Antenna <input type="checkbox"/> Metal Frame Antenna	<input type="checkbox"/> I-PEX Connector <input type="checkbox"/> SMA Connector <input type="checkbox"/> RP-SMA Connector <input checked="" type="checkbox"/> Metal Shrapnel <input type="checkbox"/> Layout

## 2.2. Conducted Emission

### 2.2.1. Test Requirement

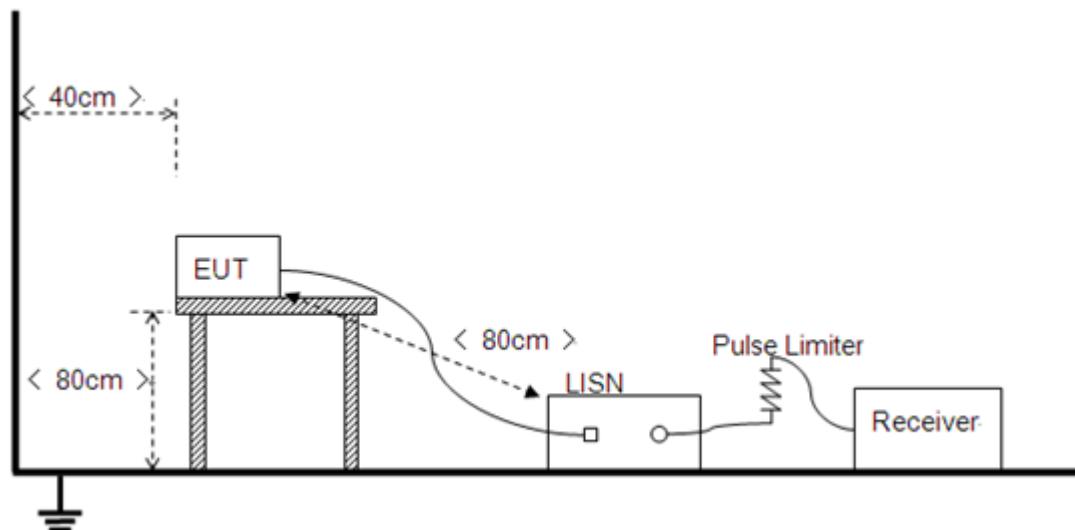
According to FCC section 15.207, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

### 2.2.2. Test Setup



The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides 50 $\Omega$ /50 $\mu$ H of coupling impedance for the measuring instrument. A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.



### 2.2.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels 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. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

**Note:** Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

#### A. Test Setup:

Test Mode: EUT+Adapter+Data Cable+13.56MHz TX

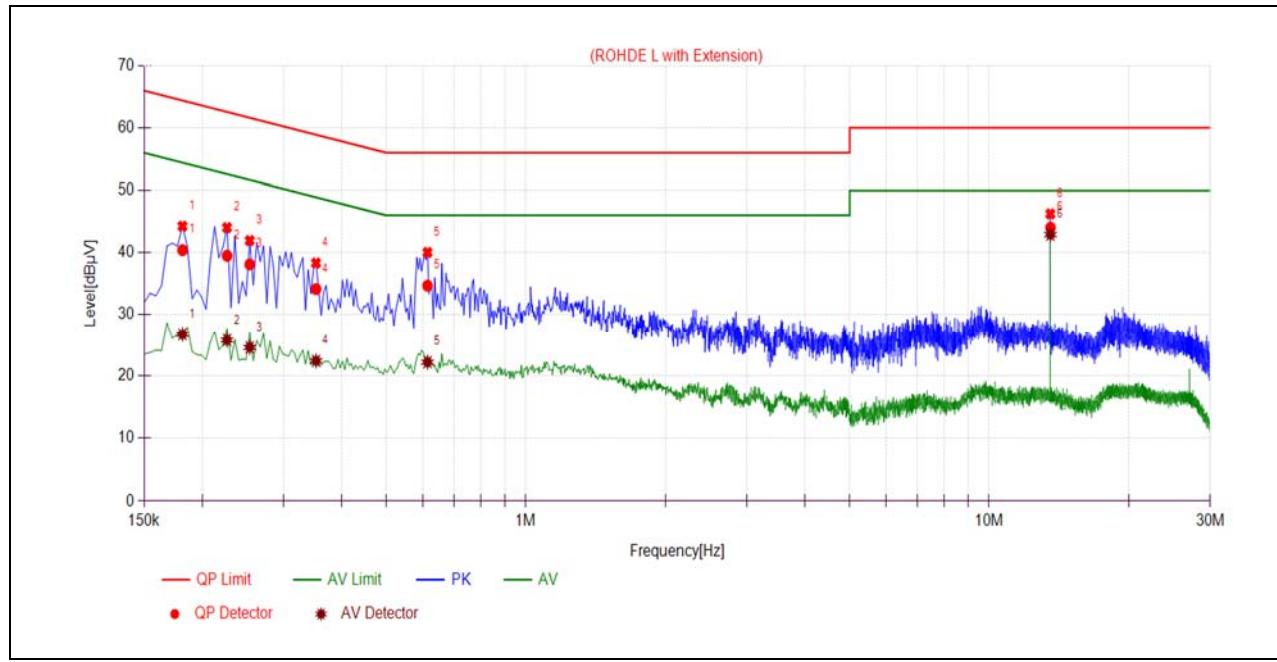
Test voltage: AC 120V/60Hz

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V}] = U_R + L_{\text{Cable loss}} [\text{dB}] + A_{\text{Factor}}$$

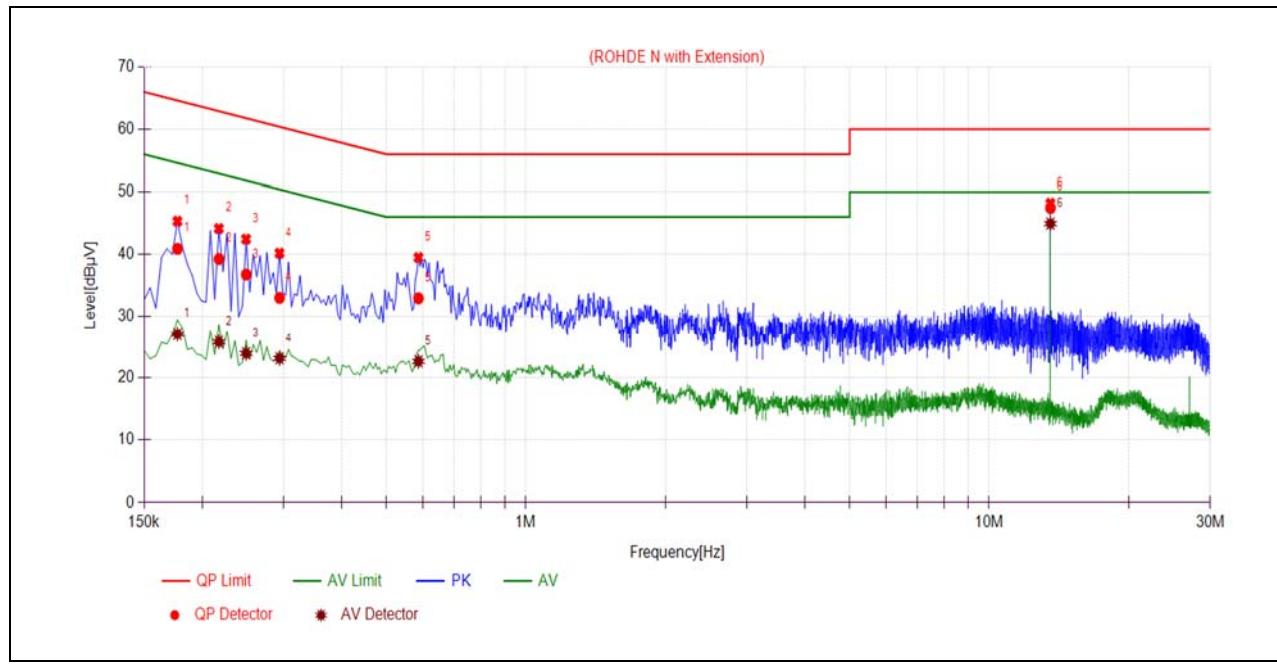
$U_R$ : Receiver Reading

$A_{\text{Factor}}$ : Voltage division factor of LISN

**B. Test Plot:**


(L Phase)

No.	Fre. (MHz)	Emission Level (dB $\mu$ V)		Limit (dB $\mu$ V)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1815	40.41	26.76	64.42	54.42	Line	PASS
2	0.2265	39.51	25.80	62.58	52.58		PASS
3	0.2535	38.11	24.61	61.64	51.64		PASS
4	0.3525	34.14	22.45	58.90	48.90		PASS
5	0.6135	34.68	22.23	56.00	46.00		PASS
6	13.5608	44.04	42.92	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1770	40.91	27.14	64.62	54.62	Neutral	PASS
2	0.2175	39.28	25.85	62.91	52.91		PASS
3	0.2490	36.78	23.97	61.79	51.79		PASS
4	0.2940	33.04	23.17	60.41	50.41		PASS
5	0.5865	32.96	22.68	56.00	46.00		PASS
6	13.5602	47.45	44.95	60.00	50.00		PASS



## 2.3. Radiated Emission

### 2.3.1. Test Requirement

#### Radiated Emission <30MHz (9 kHz-30MHz, E-field)

According to FCC section 15.225, for <30MHz, Radiated emissions were measured according to ANSIC63.4. The EUT was set to transmit at the highest output power. The EUT was set 30 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the center of the loop. The measuring bandwidth was set to 10KHz. (Note: During testing the receive antenna was rotated about its axis to maximize the emission from the EUT)

There was no detected Restricted bands and Radiated Spurious emission below 30MHz. The 30m limit was converted to 3m Limit using square factor(x) as it was found by measurements as follows;

$$3 \text{ m Limit(dBuV/m)} = 20\log(X) + 40\log(30/3) = 20\log(15848) + 40\log(30/3) = 124 \text{ dBuV}$$

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency Range (MHz)	Field Strength@30m		Field Strength@3m
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
Below 13.110	30	29.5	69.5
13.110 ~ 13.410	106	40.5	80.5
13.410 ~ 13.553	334	50.5	90.5
13.553 ~13.567	15.848	84	124
13.567 ~ 13.710	334	50.5	90.5
13.710 ~14.010	106	40.5	80.5
Above 14.010	30	29.5	69.5

NOTE: a) Field Strength ( $\text{dB}\mu\text{V/m}$ ) =  $20\log[\text{Field Strength } (\mu\text{V/m})]$ .

b) In the emission tables above, the tighter limit applies at the band edges.

#### Radiated Emission >30MHz (30MHz-1GHz, E-field)

According to FCC section 15.205, the field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the following values:

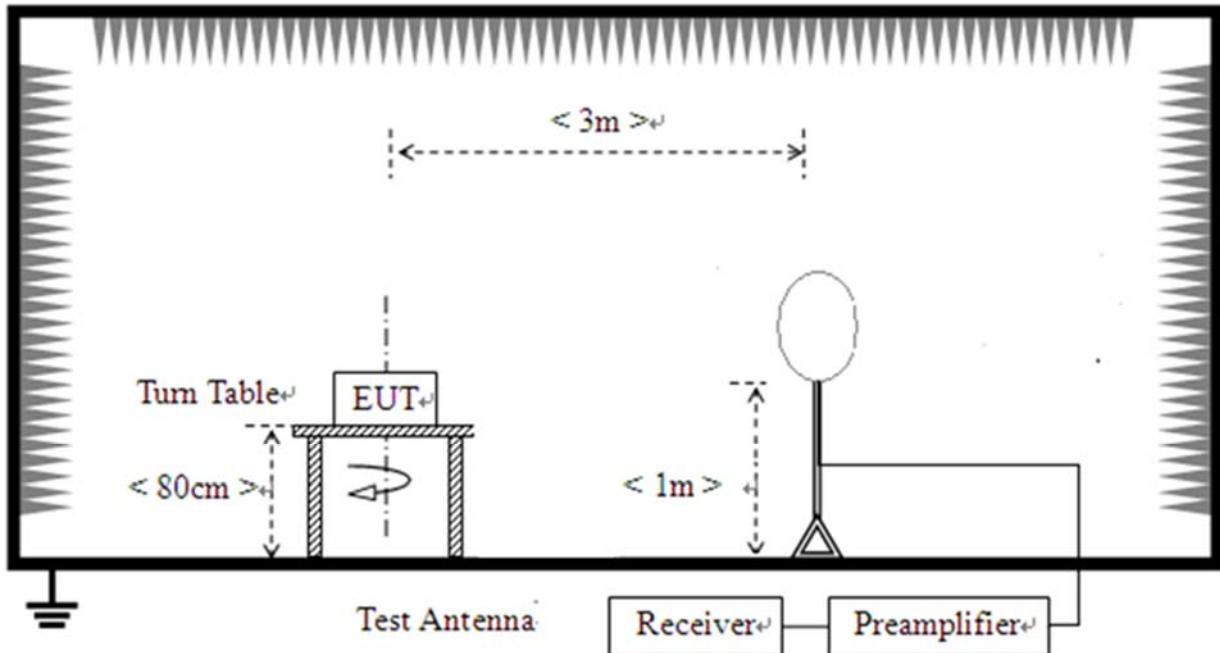
Frequency Range (MHz)	Field Strength	
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

NOTE: a) Field Strength ( $\text{dB}\mu\text{V/m}$ ) =  $20\log[\text{Field Strength } (\mu\text{V/m})]$ .

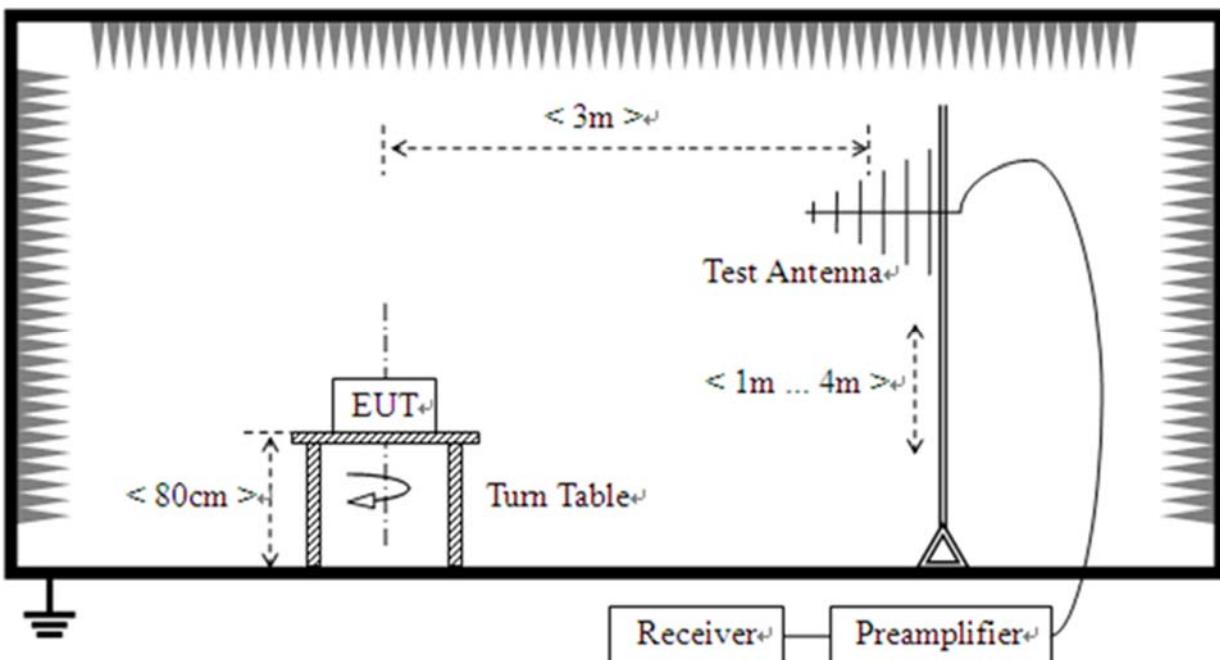
b) In the emission tables above, the tighter limit applies at the band edges.

### 2.3.2. Test Setup

1) For radiated emissions below 30MHz



2) For radiated emissions from 30MHz to 1GHz



The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating



Turn Table, and keeps 3m away from the Test Antenna, which is mounted on a variable-height antenna master tower.

For the test Antenna:

In the frequency range of 9 kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) was used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

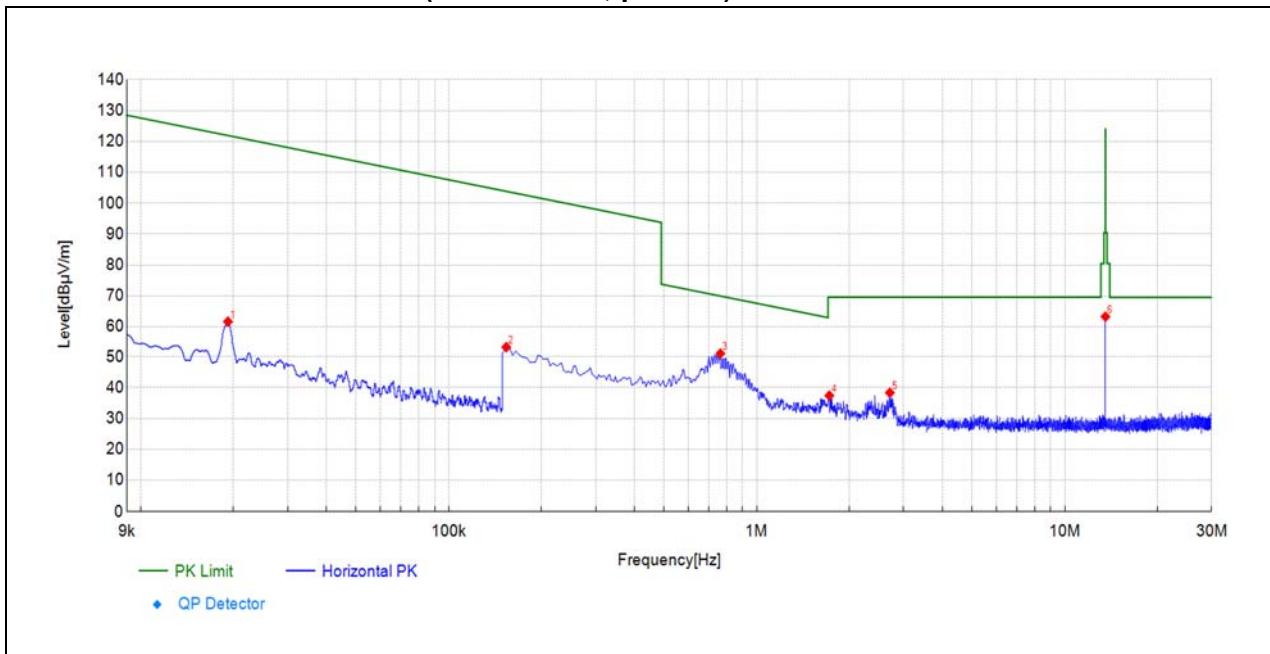
For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector. For measurements frequency range from 0.009MHz to 0.15MHz, the resolution bandwidth is set to 200Hz. For measurements frequency range from 0.15MHz to 30MHz the resolution bandwidth is set to 9kHz.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video bandwidth is set to 3MHz for peak measurements and as applicable for average measurements.

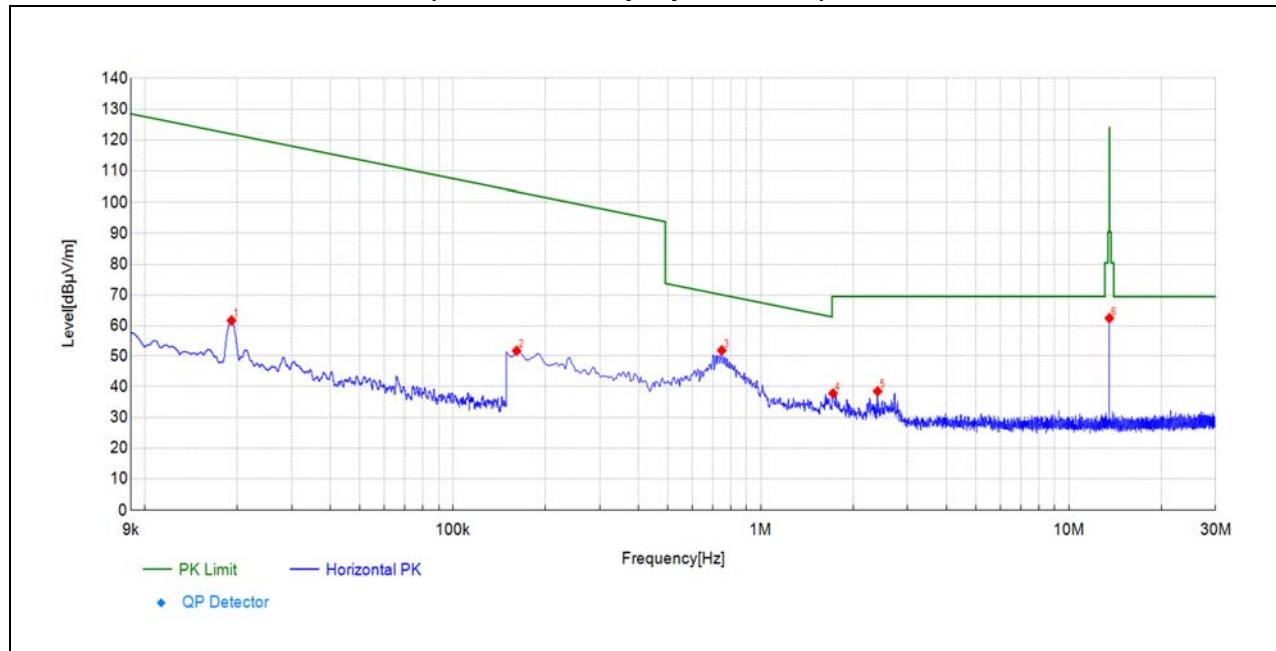
### 2.3.3. Test Result

#### A. Radiated Emission <30MHz (9kHz-30MHz, parallel)



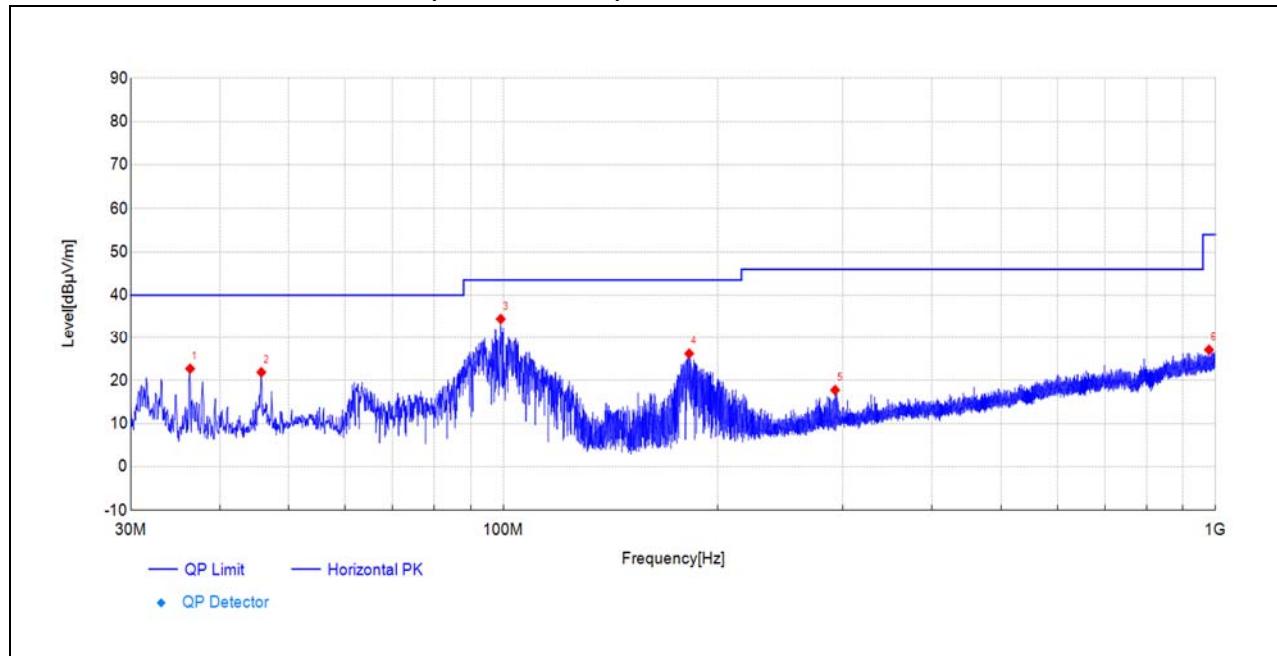
Frequency [MHz]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Factor [dB/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Angle [°]	Detector	Verdict
0.02	42.2	61.65	19.500	127.78	66.13	230	PK	PASS
0.15	33.3	53.08	19.800	118.07	64.99	234	PK	PASS
0.76	31.0	51.00	20.020	71.38	20.38	155	PK	PASS
1.72	17.3	37.39	20.120	69.54	32.15	15	PK	PASS
2.71	18.1	38.33	20.250	69.54	31.21	222	PK	PASS
13.56	42.9	63.28	20.350	124.00	60.72	107	PK	PASS

## B.Radiated Emission &lt;30MHz (9kHz-30MHz, perpendicular)



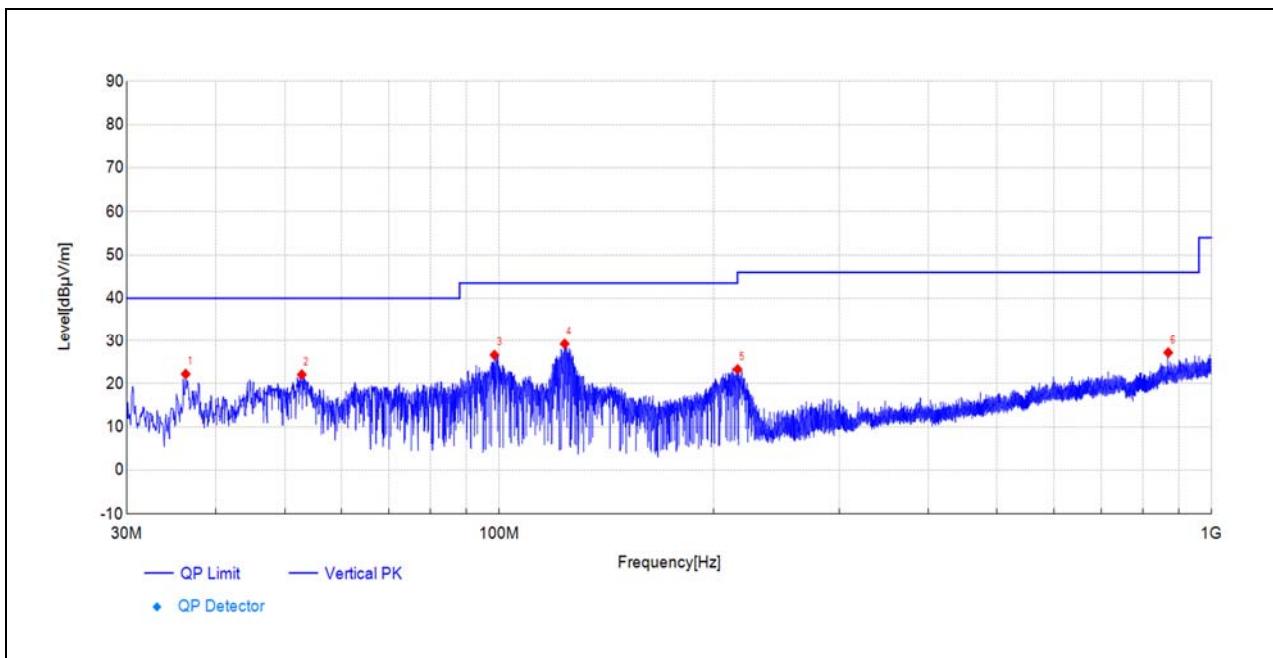
Frequency [MHz]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Factor [dB/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Angle [°]	Detector	Verdict
0.02	42.3	61.82	19.500	127.79	65.97	67	PK	PASS
0.16	31.8	51.65	19.810	117.53	65.88	3	PK	PASS
0.75	31.7	51.76	20.020	71.51	19.75	160	PK	PASS
1.72	17.7	37.79	20.120	69.54	31.75	350	PK	PASS
2.40	18.3	38.49	20.210	69.54	31.05	32	PK	PASS
13.56	42.2	62.55	20.350	124.00	61.45	107	PK	PASS

## C.Radiated Emission &gt;30MHz (30MHz-1GHz)



(30MHz – 1GHz, Test Antenna Horizontal)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict
36.35	52.2	22.74	-29.480	40.00	17.26	261	PK	PASS
45.76	50.3	21.91	-28.380	40.00	18.09	180	PK	PASS
99.21	64.1	34.49	-29.610	43.50	9.01	92	PK	PASS
182.39	56.6	26.23	-30.340	43.50	17.27	234	PK	PASS
292.30	44.0	17.77	-26.220	46.00	28.23	234	PK	PASS
978.71	38.3	27.13	-11.190	54.00	26.87	200	PK	PASS



(30MHz – 1GHz, Test Antenna Vertical)

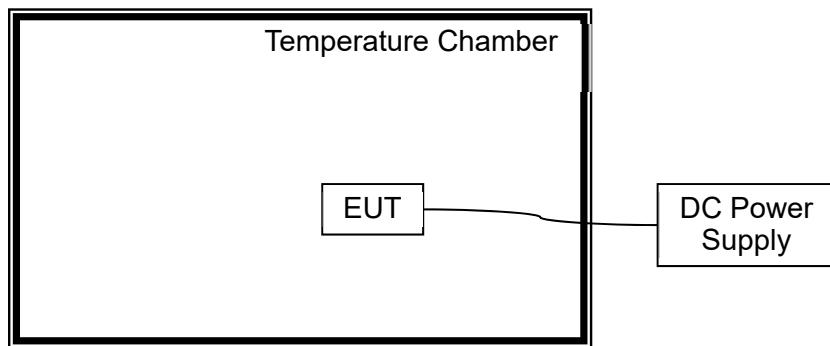
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict
37.47	54.2	24.80	-29.400	40.00	15.20	337	PK	PASS
86.65	68.9	36.64	-32.270	40.00	3.36	22	PK	PASS
187.73	54.4	24.31	-30.090	43.50	19.19	297	PK	PASS
294.24	45.0	18.93	-26.030	46.00	27.07	282	PK	PASS
613.05	39.2	21.87	-17.290	46.00	24.13	56	PK	PASS
946.40	38.1	27.00	-11.060	46.00	19.00	242	PK	PASS

## 2.4. Frequency Tolerance

### 2.4.1. Test Requirement

According to FCC section 15.225, the devices operating in the 13.553~13.567 MHz shall maintain the carrier frequency within 0.01% of the operating frequency over the temperature variation of -20°C to +50°C using an environmental chamber. The primary supply voltage is varied from 85% to 115% of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

### 2.4.2. Test Setup



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT was measured by transmitter mode continuously.



### 2.4.3. Test Result

Operating Frequency: 13,560,000 Hz

Deference Voltage: 3.87V

Deviant Limit:  $\pm 0.01\%$

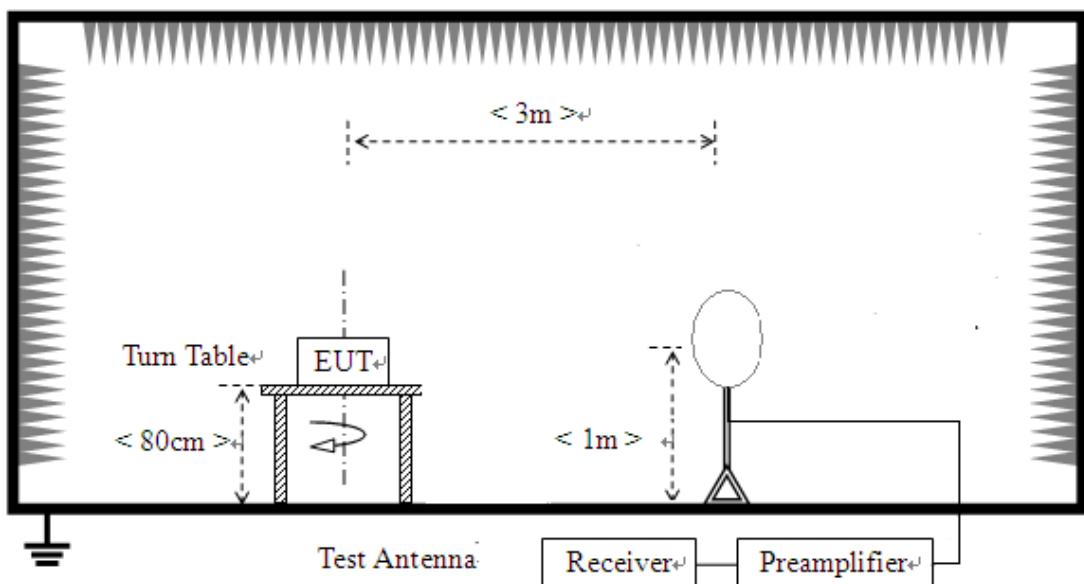
VOLTAGE (%)	Test Conditions		Fre. Dev. (Hz)	Deviation (%)	Verdict
	Power (VDC)	Temperature (°C)			
100	3.87	-20	0	0.00000	PASS
100		-10	0	0.00000	
100		0	0	0.00000	
100		10	0	0.00000	
100		20	0	0.00000	
100		25	0	0.00000	
100		30	0	0.00000	
100		40	0	0.00000	
100		50	0	0.00000	
85		20	0	0.00000	
115	4.45	20	0	0.00000	

## 2.5. 20 dB Bandwidth

### 2.5.1. Standard Applicable

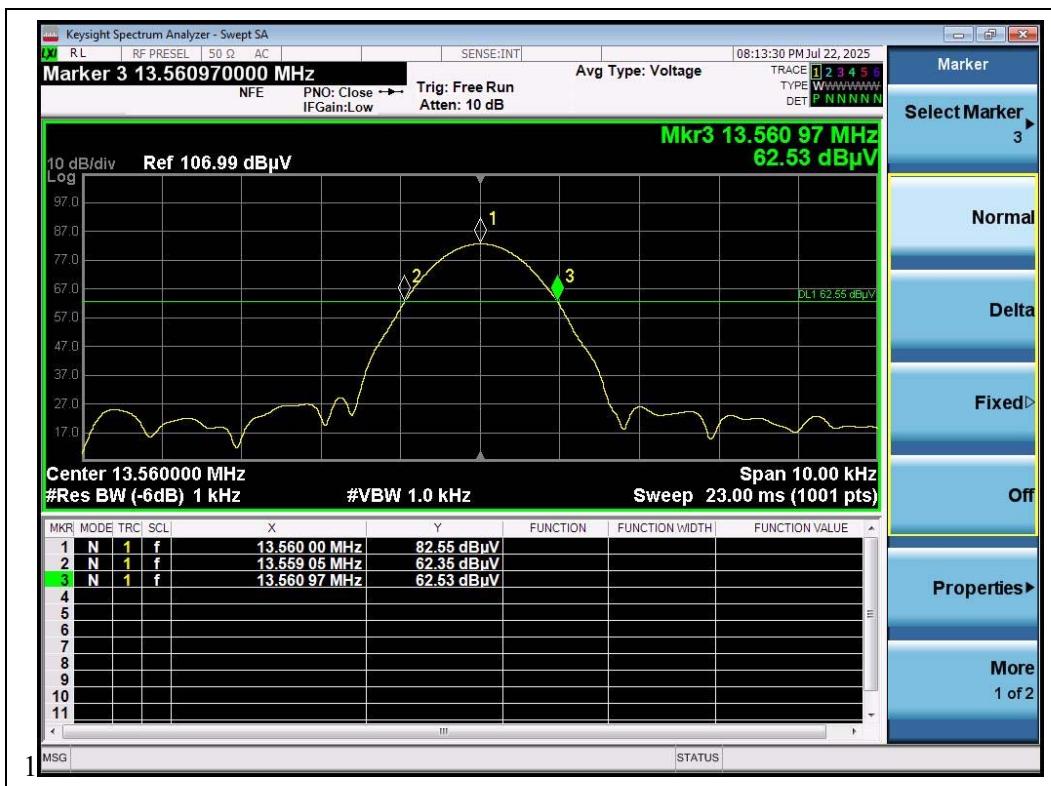
According to FCC section 15.215(c), the 20dB bandwidth should be contained within the frequency band designated in the rule section under which the EUT is operated, it was measured with a spectrum analyzer connected the EUT while the EUT is operating in transmission mode.

### 2.5.2. Test Setup



## 2.5.3. Test Result

Centre Frequency	Measurement		Limit		Verdict
	20 dB Bandwidth (kHz)	Frequency Range (MHz)	20dB Bandwidth (kHz)	Frequency Range(MHz)	
13.56MHz	1.92	13.55905 to 13.56097	14	13.553 to 13.567	PASS





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## Annex A Test Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Test Items	Uncertainty
Radiated Emission	$\pm 3.1\text{dB}$
Conducted Emission	$\pm 1.8\text{dB}$
Bandwidth	$\pm 5\%$
Frequency Tolerance	$\pm 5\%$

**MORLAB**

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[Http://www.morlab.cn](http://www.morlab.cn)      E-mail: [service@morlab.cn](mailto:service@morlab.cn)



## Annex B Testing Laboratory Information

### 1. Identification of the Responsible Testing Laboratory

<b>Laboratory Name:</b>	Shenzhen Morlab Communications Technology Co., Ltd.
<b>Laboratory Address:</b>	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
<b>Telephone:</b>	+86 755 36698555
<b>Facsimile:</b>	+86 755 36698525

### 2. Identification of the Responsible Testing Location

<b>Name:</b>	Shenzhen Morlab Communications Technology Co., Ltd.
<b>Address:</b>	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

### 3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2020 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.



#### 4. Test Equipment Utilized

##### 4.1 Radiated Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2025.05.13	2026.05.12
Test Antenna - Bi-Log	9163-274	VULB 9163	Schwarzbeck	2025.06.28	2026.06.27
Test Antenna - Loop	00131	FMZB1519B	Schwarzbeck	2024.09.19	2025.09.18
DC Power Supply	1709D361010	IV3610	IVYTECH	2024.09.11	2025.09.10
Temperature Chamber	12108015	DTL-003S101	YOMA	2024.09.11	2025.09.10
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.06.21	2028.06.20
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29

##### 4.2 Conducted Emission Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	101052	ESPI	R&S	2025.05.15	2026.05.14
LISN	103131	ENV 216	R&S	2025.03.20	2026.03.19
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	2025.05.06	2026.05.05

##### 4.3 Test Software Utilized

Description	Manufacturer	Software Version
JS32-RE	Tonscend	5.0.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0
PMM Emission Suite	narda	Version 2.02

— END OF REPORT —