ACCREDITED
CERTIFICATE #5473.01

Test Report No.:
FCC2025-0017-EMC

TEST REPORT

FCC ID	:	2AGOFRC477C
Applicant	:	HCS (Suzhou) Limited
Product Name	:	Remote Control
Mode No.	:	RC4773403/01BR,RC4773401/01BR,RC4773402/01BR,RC4773801/01BR,RC477XXXX/XXR,RC477XXXX/XXBR(‘X’=0-9, ‘B’ means packed with battery)

CVC Testing Technology Co., Ltd.

Applicant	**Name :** HCS (Suzhou) Limited **Address :** 19F-20F, Building B-3rd, No.209 Zhuyuan Road, New District, Suzhou, P.R.China
Manufacturer	**Name :** HCS (Suzhou) Limited **Address :** 19F-20F, Building B-3rd, No.209 Zhuyuan Road, New District, Suzhou, P.R.China
Factory	**Name :** Himit (Yueyang) Technology Ltd. **Address :** Building 4, Lingang High-tech Industrial Park, Yueyang Area, China (Hunan) Free Trade Pilot Zone
Equipment under Test	**Product Name :** Remote Control **Model/Type:** RC4773403/01BR,RC4773401/01BR, RC4773402/01BR,RC4773801/01BR, RC477XXXX/XXR,RC477XXXX/XXBR (‘X’=0-9,‘B’ means packed with battery) **Trade mark :** / **Serial no. :** / **Sampling :**1-1

Date of Receipt.	**2025.05.30**	Date of Testing	**2025.05.30-2025.06.03**

Test Specification	**Test Result**
FCC 47 CFR Part 15B	PASS

Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. **Seal of CVC** **Issue Date: 2025-07-01**

Tested by:	Reviewed by:	Approved by:
Wang Xin	**Xu Zhenfei**	**Chen Huawen**

Other Aspects: NONE.

Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested

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1. General Product Information

1.1 General information

Product Name	Remote Control
Model No.	RC4773403/01BR,RC4773401/01BR,RC4773402/01BR,RC4773801/01BR,RC477XXXX/XXR,RC477XXXX/XXBR（‘X’=0-9,‘B’ means packed with battery）
Power Supply	DC 3.0V
Highest frequency of the internal sources	Bluetooth-LE: 2.4GHz

Remark:

1. The information of the EUT is declared by the manufacturer.
2. The laboratory is not responsible for the product technical specification provided by the client.
3. The device under test is not connected to the AC grid,is powered by a built-in battery,Conducted emission test is not applicable.
4. The remote control product of the covered model has the same electrical and mechanical structure as the EUT of the main inspection model. There are only cosmetic differences (color/painting/ printing). The basic software architecture remains the same. Full tests were performed on the model: RC4773403/01BR.The test result covers other models.

2. Test Sites

2.1 Test Facilities

The tests and measurements refer to this report were performed by EMC testing Lab. of CVC Testing Technology Co., Ltd.

Add.: No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, 510663, P. R. China

Telephone : +86-20-32293888

Fax : +86-20-32293889

2.2 Description of Non-standard Method and Deviations

The testing and measurement methods used in this report are applied by all standard methods. Not any non-standard method or deviation from the used standards was used.

2.3 List of Test and Measurement Instruments

Refer to **Appendix**.

3. Test Configuration

3.1 Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximum rate data transmission its emission characteristics in a typical application.

4. Summary of measurement results

Summary of measurements of results	Clause in FCC rules	Class / Severity	Verdict
Conducted Emissions	FCC 47 CFR Part 15 Section 15.107	/	N/A
Radiated Emissions	FCC 47 CFR Part 15 Section 15.109	Class B	PASS

5. Measurement procedure

5.1 Conducted Emission

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	50%~56%	101.5kPa

Method of Measurement:

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz.The measurement result should include both L line and N line.

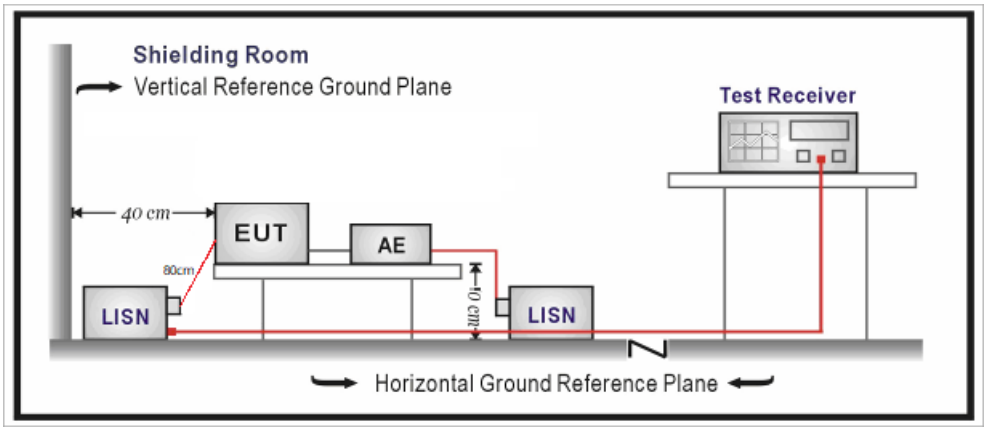
Limits:

Frequency (MHz)	Conducted Limits(dBμV)			
	Class B		Class A	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*	79	66
0.5 - 5	56	46	73	60
5 - 30	60	50	73	60

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Test Setup:



Note: AC Power source is used to change the voltage 110V/50Hz.

Measurement Uncertainty：

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96. U = 2.66 dB.

Test Results:

Power Line	L
Worst Case Operating Mode:	/

Conducted Emission					
Port: AC Power Line(Power line L)					
Freq. (MHz)	QP Limits (dBμV)	QP Level (dBμV)	Freq. (MHz)	AV Limits (dBμV)	AV Level (dBμV)
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/

N/A

Power Line	N
Worst Case Operating Mode:	/

Conducted Emission					
Port: AC Power Line(Power line N)					
Freq. (MHz)	QP Limits (dBμV)	QP Level (dBμV)	Freq. (MHz)	AV Limits (dBμV)	AV Level (dBμV)
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/
/	/	/	/	/	/

N/A

5.2 Radiated Emission

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement:

The test set-up was made in accordance to the general provisions of ANSI C63.4-2014.The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

Below 1GHz (detector: Peak and Quasi-Peak)

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz(detector: Peak):

(a)PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

(b)AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

Limits for class B:

Limit in restricted band(Part 15.109)

Frequency (MHz)	Measurement Distance (m)	Field strength(uV/m)	Level (dBuV/m)
30 - 88	3	100	40
88 - 216	3	150	43.5
216 - 960	3	200	46
Above 960-1000	3	500	54
Note 1: The lower limit shall apply at the transition frequency. Note 2: Distance refers to the distance in meters between the measuring instrument Antenna and the closed point of any part of the device or system. Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)			

Limit in radiated emission measurement (Part 15.109)

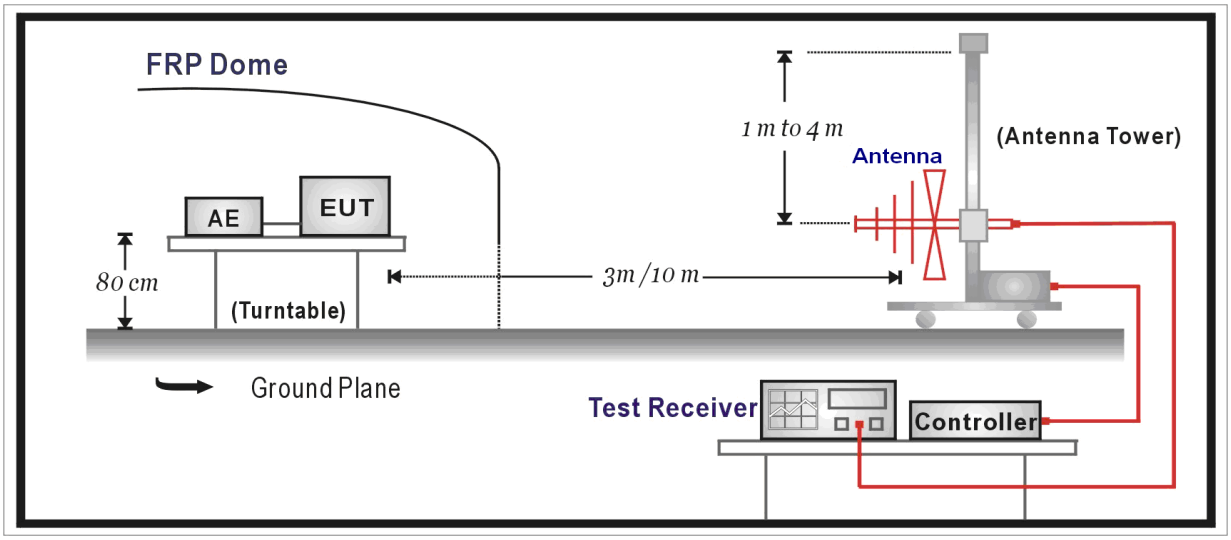
Frequency(MHz)	Field strength(dBuV/m) @3m	
Above 1000	74(peak)	54(average)

According to FCC Part 15.33(b),for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

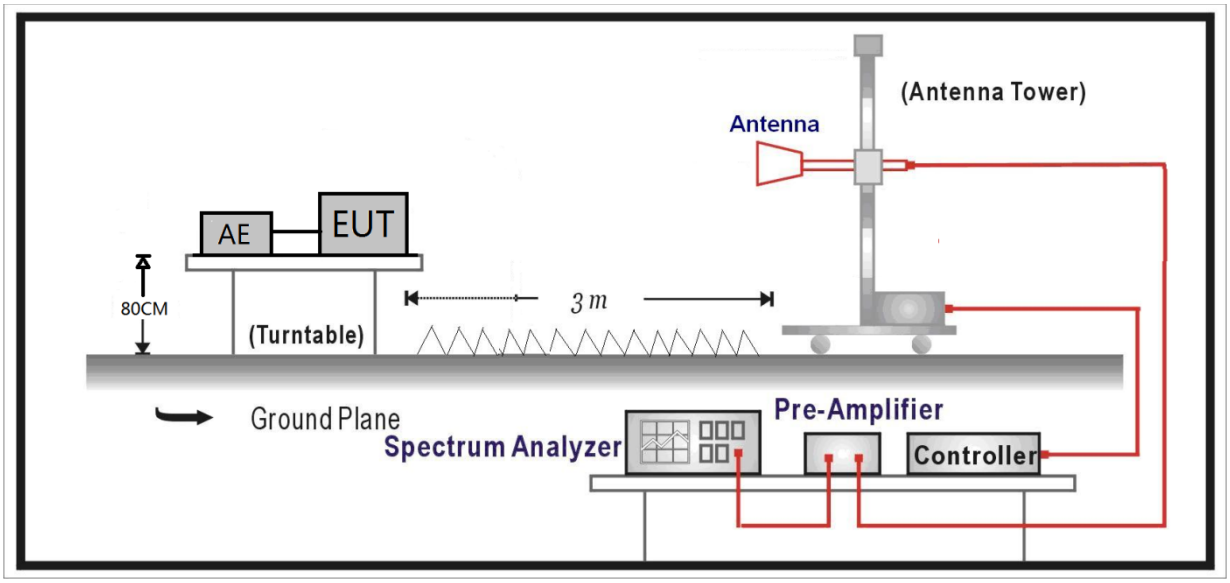
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Above 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Test Setup:

Below 1GHz Test Setup:



Above 1GHz Test Setup:



Measurement Uncertainty：

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

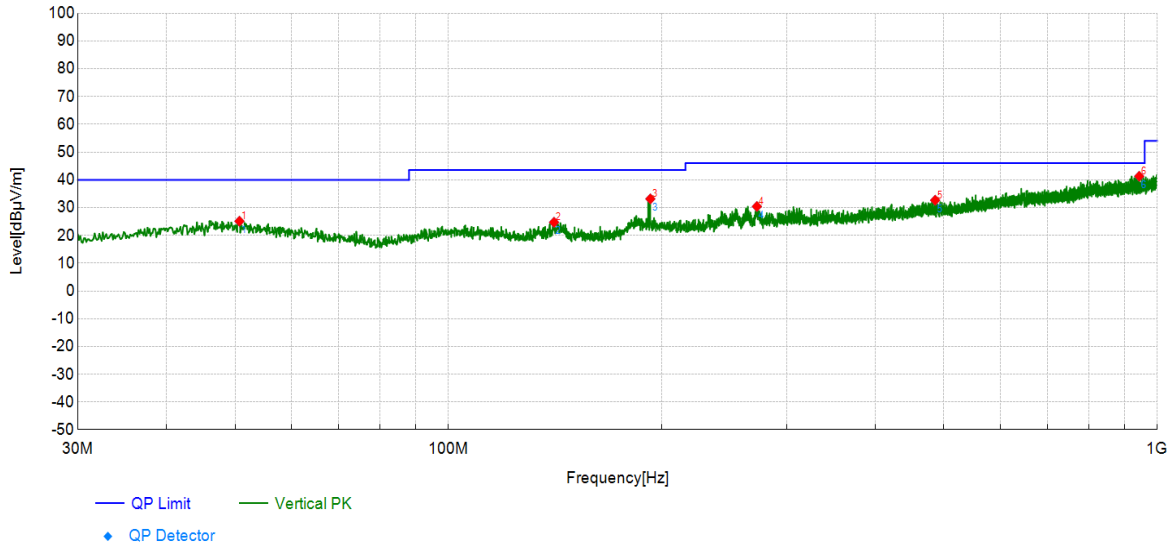
Frequency	Uncertainty
above 1G	4.84 dB
below 1G	4.10 dB

Test Results:

SPURIOUS EMISSIONS 30MHz~1GHz：

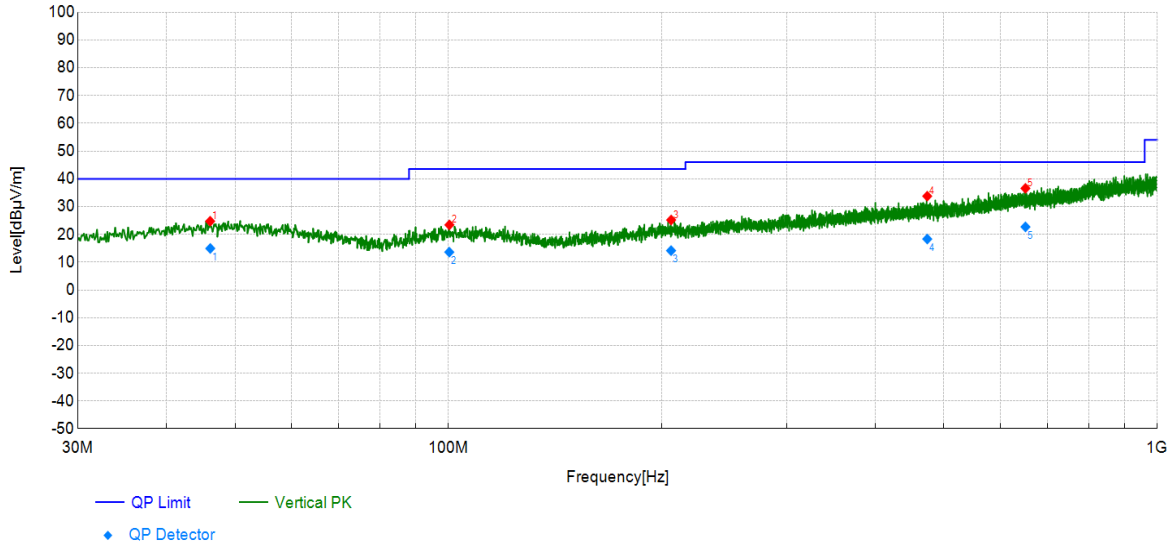
Radiated Emission	30MHz-1GHz
Polarity	Horizontal
Worst Case Operating Mode:	Working

Final Data List								
Frequency [MHz]	Polarity	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
53.04	Horizontal	-17.48	25.35	40.00	14.65	100	257	PASS
140.70	Horizontal	-22.40	36.17	43.50	7.33	300	11	PASS
191.75	Horizontal	-19.33	40.36	43.50	3.14	300	11	PASS
263.77	Horizontal	-16.90	34.26	46.00	11.74	300	11	PASS
676.38	Horizontal	-8.55	35.75	46.00	10.25	100	111	PASS
942.77	Horizontal	-4.46	41.55	46.00	4.45	100	26	PASS



Radiated Emission	30MHz-1GHz
Polarity	Vertical
Worst Case Operating Mode:	Working

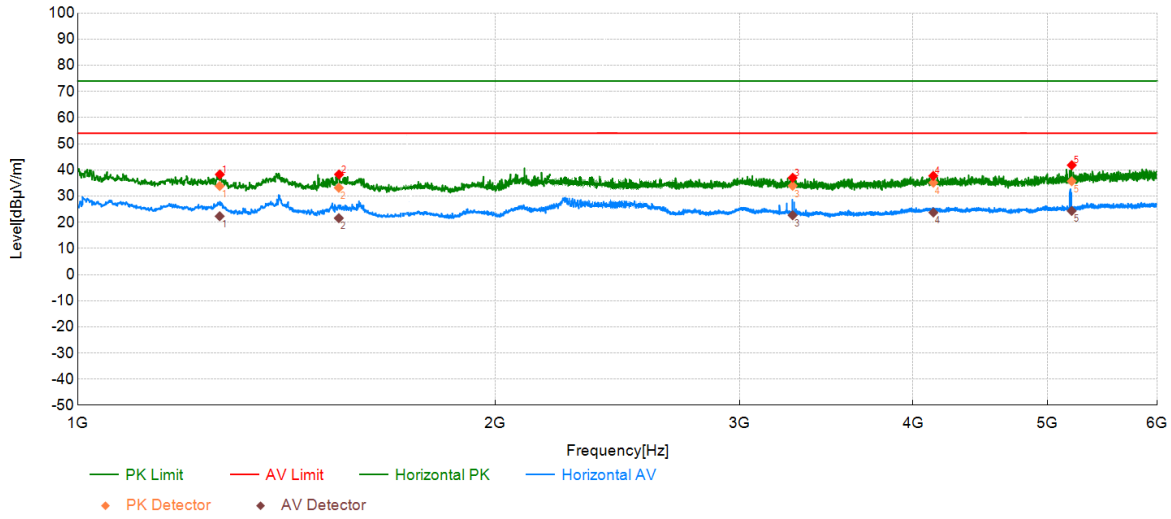
Final Data List								
Frequency [MHz]	Polarity	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
46.14	Vertical	-17.35	14.93	40.00	25.07	273.3	1	PASS
100.29	Vertical	-18.96	13.61	43.50	29.89	289.7	61	PASS
206.12	Vertical	-18.79	14.16	43.50	29.34	340.7	0	PASS
473.71	Vertical	-12.17	18.33	46.00	27.67	344.9	310	PASS
651.73	Vertical	-8.86	22.70	46.00	23.30	109.2	341	PASS



SPURIOUS EMISSIONS 1GHz~6GHz:

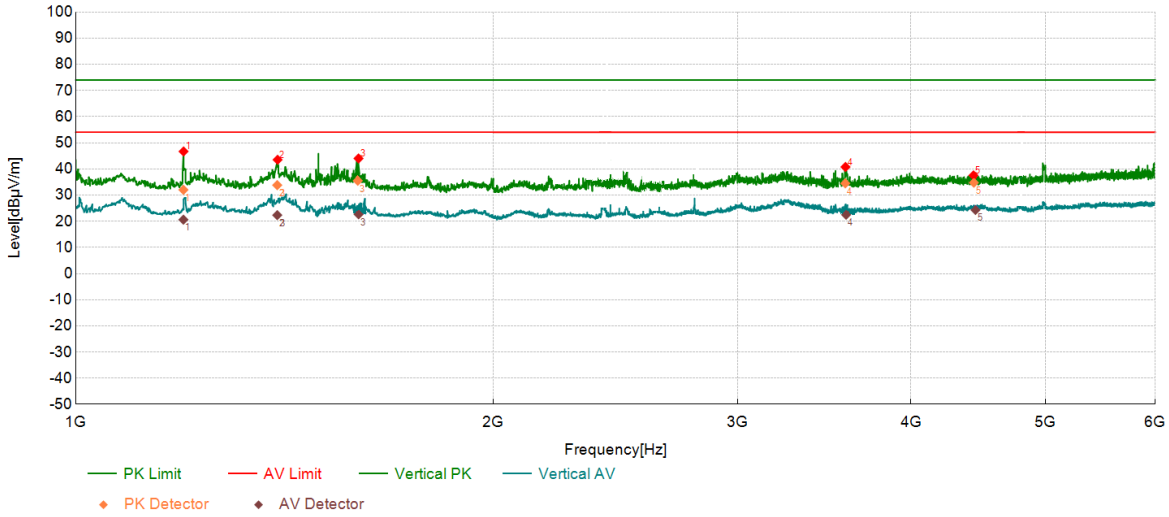
Radiated Emission	1GHz-6GHz
Polarity	Horizontal
Worst Case Operating Mode:	Working

Final Data List									
Frequency [MHz]	Polarity	Factor [dB]	PK Value [dBμV/m]	PK Limit [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	Height [cm]	Angle [°]	Pass/Fail
1265.65	Horizontal	-6.07	33.85	74.00	22.30	54.00	100	176	PASS
1542.36	Horizontal	-5.71	33.18	74.00	21.57	54.00	100	283	PASS
3275.71	Horizontal	-4.18	33.94	74.00	22.67	54.00	100	209	PASS
4137.61	Horizontal	-1.52	35.09	74.00	23.73	54.00	100	267	PASS
5205.56	Horizontal	0.60	35.67	74.00	24.33	54.00	100	324	PASS



Radiated Emission	1GHz-6GHz
Polarity	Vertical
Worst Case Operating Mode:	Working

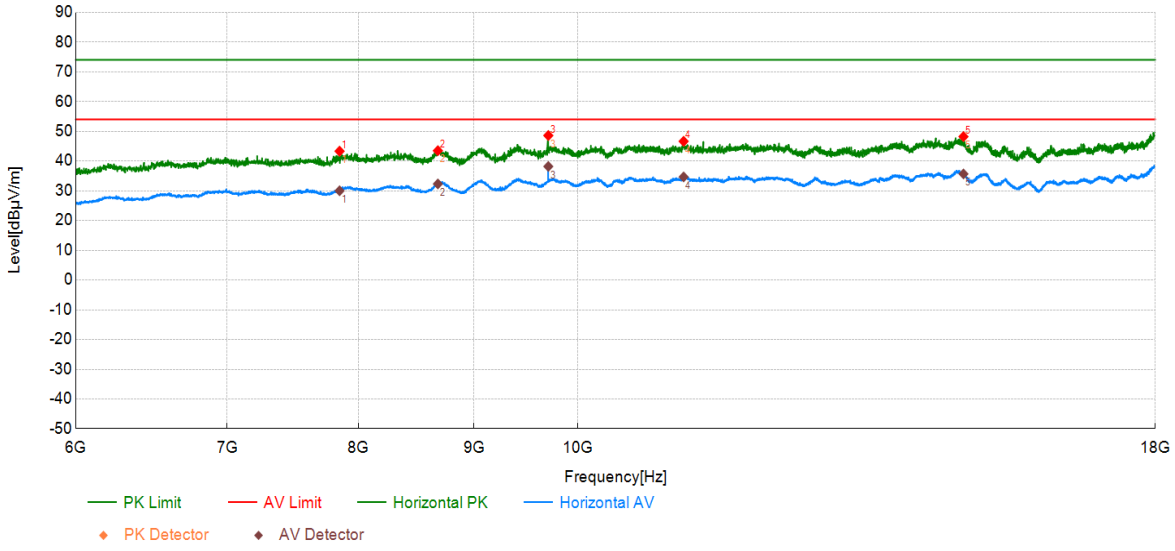
Final Data List									
Frequency [MHz]	Polarity	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	Height [cm]	Angle [°]	Pass/Fail
1195.70	Vertical	-6.11	32.01	74.00	20.61	54.00	100	201	PASS
1397.21	Vertical	-5.91	33.80	74.00	22.33	54.00	100	209	PASS
1398.55	Vertical	-5.91	33.81	74.00	22.36	54.00	100	209	PASS
3587.39	Vertical	-3.44	33.75	74.00	22.60	54.00	100	218	PASS
4437.46	Vertical	-0.67	35.28	74.00	24.05	54.00	100	94	PASS



SPURIOUS EMISSIONS 6GHz~18GHz：

Radiated Emission	6GHz-18GHz
Polarity	Horizontal
Worst Case Operating Mode:	Working

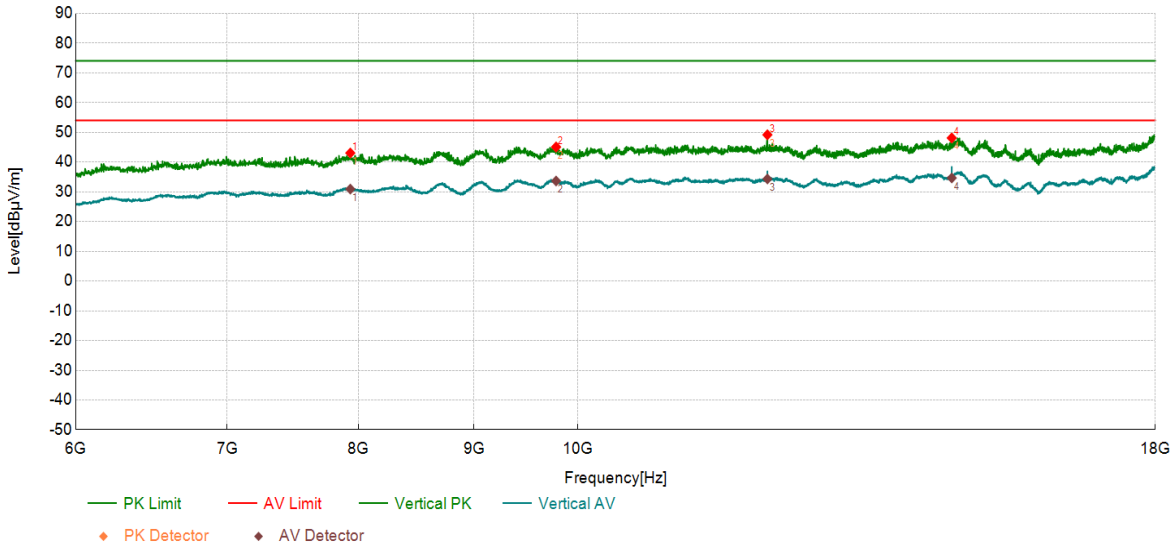
Final Data List									
Frequency [MHz]	Polarity	Factor [dB]	PK Value [dBμV/m]	PK Limit [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	Height [cm]	Angle [°]	Pass/Fail
7846.72	Horizontal	8.94	43.29	74.00	29.99	54.00	110	11	PASS
8672.56	Horizontal	10.13	43.46	74.00	32.28	54.00	110	348	PASS
9107.11	Horizontal	11.81	48.56	74.00	38.16	54.00	110	208	PASS
11139.31	Horizontal	14.64	46.60	74.00	34.65	54.00	110	128	PASS
14826.53	Horizontal	17.50	48.19	74.00	35.65	54.00	110	20	PASS



Radiated Emission	6GHz-18GHz
Polarity	Vertical
Worst Case Operating Mode:	Working

Final Data List

Frequency [MHz]	Polarity	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	Height [cm]	Angle [°]	Pass/Fail
7945.33	Vertical	9.02	43.02	74.00	30.90	54.00	110	87	PASS
9782.11	Vertical	11.65	45.02	74.00	33.61	54.00	110	276	PASS
12116.97	Vertical	15.88	49.13	74.00	34.29	54.00	110	177	PASS
14653.19	Vertical	17.52	48.07	74.00	34.63	54.00	110	294	PASS
7948.66	Vertical	9.02	43.02	74.00	30.90	54.00	110	87	PASS



Note: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

6. Measurement Equipment

Test Equipment	Type/Mode	Equipment No.	Manufacturer	Cal. Due
EMI Test Receiver	ESR3	EM-000520	R&S	2026-01-06
LISN	NSLK 8127	EM-000370	SCHWARZBECK	2025-07-22
EMI Test Receiver	ESR7	EM-000574	R&S	2026-01-06
Broadband Antenna(5m)	VULB 9163	EM-000736-1	SCHWARZBECK	2026-06-02
Waveguide Horn Antenna	HF906	EM-000093-8	R&S	2025-12-26
Semi-Anechoic Chamber(5m)	SAC-5	EM-000557	COMTEST	2027-02-01
TS+（#2）	JS32-CE 3.0.0.1	/	/	/
TS+（5m）	JS32-RE 5.0.0	/	/	/

The End