



JAPAN RADIO TEST REPORT

60GHz DATA TRANSMISSION SYSTEMS

Product Name : Wireless Device
Model Name : GG01
Declaration : 1.40 mW (60GHz System)
Output Power
Type Emissions : A1D
Standard : Article 2 Paragraph 1 Item 19-4-3 of the Certificate Ordinance of the Radio Law indicates the classification of the specified radio equipment
Test Procedure : TAC temporary procedure for 60GHz specified low power data transmission systems

The product was received on Jan. 21, 2025 and testing was performed from Feb. 21, 2025 to Mar. 17, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in TAC temporary procedure for 60GHz specified low power data transmission systems and shown to be compliant with the applicable technical standards. Article 2 Paragraph 1 Item 19-4-3 of the Certificate Ordinance of the Radio Law indicates the classification of the specified radio equipment.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

Table of Contents

Revision History	3
Summary of Test Result.....	4
1 General Description.....	5
1.1 Feature of Equipment Under Test	5
1.2 Modification of EUT	7
1.3 Testing Site.....	7
1.4 Measurement Uncertainty	7
1.5 Applied Standards	8
1.6 Ancillary Equipment List	8
2 Test Configuration of Equipment Under Test.....	9
2.1 Frequency Range of Group	9
2.2 EUT Operation Test Setup	9
2.3 Test setup	9
3 Test Result.....	11
3.1 Frequency Tolerance Measurement.....	11
3.2 Occupied Bandwidth Measurement.....	12
3.3 Unwanted Emission Intensity Measurement	13
3.4 RF Output Power / Tolerance and EIRP Power	15
3.5 Limitation of Collateral Emission of Receiver Measurement.....	16
3.6 Radio Interference Prevention Function Measurement.....	17
3.7 Construction Protection Confirmation Method.....	18
3.8 Carrier Sense Mechanism	19
4 List of Measuring Equipment	20
Appendix A. Test Results	
Appendix B. Test Plots	
Appendix C. Setup Photographs	

Revision History

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Summary of Test Result

Report Section	Description	Result
3.1	Frequency Tolerance	Pass
3.2	Occupied Bandwidth	Pass
3.3	Unwanted Emission Intensity	Pass
3.4	RF Output Power / Tolerance and EIRP Power	Pass
3.5	Limitation of Collateral Emission of Receiver	Pass
3.6	Radio Interference Prevention Capability	Pass
3.7	Construction Protection Confirmation	Pass
3.8	Carrier Sense Mechanism	NA

Conformity Assessment Condition:	
1.	The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2.	The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".
Disclaimer:	
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.	

Reviewed by: Benson Chen

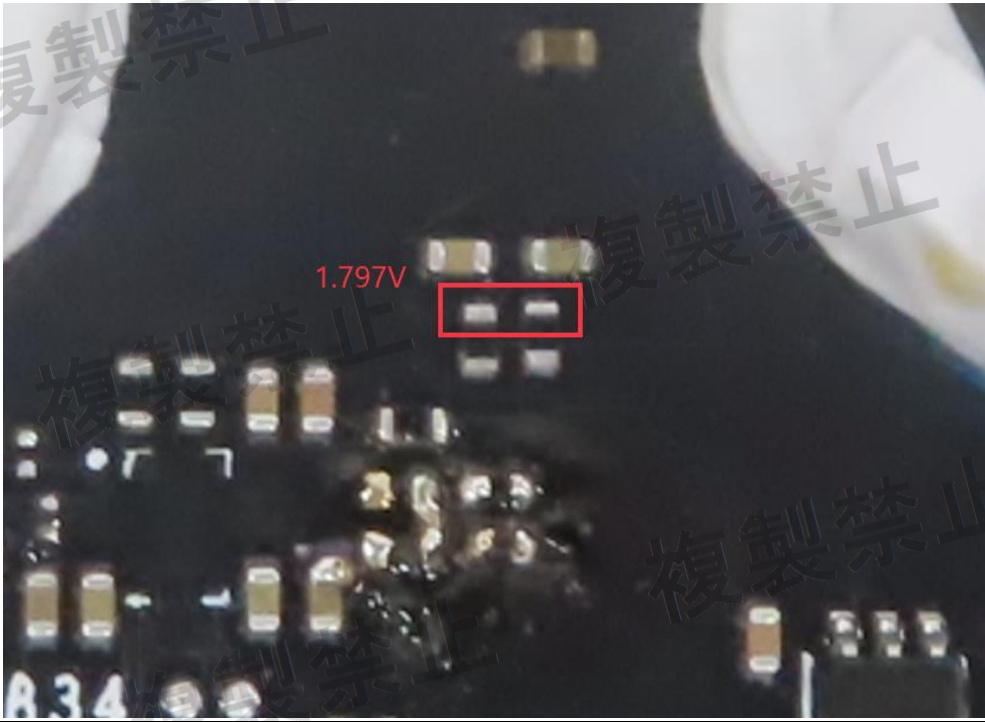
Report Producer: Clio Lo

1 General Description

1.1 Feature of Equipment Under Test

Product Feature & Specification		
Product Name	Wireless Device	
Model Name	GG01	
Support Category / Frequency Range	Article 2-1-19-4-3 ■ 59.25779 ~ 61.67045 GHz	
Type Emission	A1D	
Number of Channels	60.5 GHz	
Declaration RF Output Power	1.40 mW (60GHz System)	
Antenna Power (E.I.R.P)	5.46 dBm (60GHz System)	
Type of Modulation	■ 2ASK ☐ Other:	
Power Source ^{NOTE}	☐ Commercial power	AC 100 ~ 240V
	■ External Power Source	DC 5V
	☐ Lithium battery	DC 3.7V
	☐ UM battery	DC 1.2V

Note: When EUT be operated at $\pm 10\%$ from the normal supply voltage, the supply voltage of RF part was varied within $\pm 1\%$. All test cases were done under the normal supply voltage.

Power Supply voltage 5 Vdc (Nominal)	Power Supply voltage 5.5 Vdc (+10%)	Power Supply voltage 4.5 Vdc (-10%)
1.796V	1.797V	1.798V
Measurement point		
		

Antenna Information				
Main Antenna	Antenna Type :	Integrated	Antenna Gain :	4 dBi

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

1.3 Testing Site

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 / FAX: +886-3-327-0855
Test Site No.	Sporton Site No.: 05CH05-HY, 03CH18-HY

1.4 Measurement Uncertainty

Test Items	Uncertainty	Remark
Frequency tolerance / 99%, 90% frequency bandwidth	+/- 0.488 Hz	Confidence 95%
RF Output Power	+/- 0.8 dB	Confidence 95%
Radiated Emission (30 MHz ~ 1 GHz)	+/- 2.26 dB	Confidence 95%
Radiated Emission (1 ~ 18 GHz)	+/- 3.02 dB	Confidence 95%
Radiated Emission (18 ~ 40 GHz)	+/- 3.22 dB	Confidence 95%
Radiated Emission (40 ~ 128 GHz)	+/- 6.50 dB	Confidence 95%
Temperature	+/- 0.8 degree	Confidence 95%
Humidity	+/- 3.04 %	Confidence 95%
DC / AC Power Source	+/- 1.4 V	Confidence 95%

1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- Article 49-14 and the relevant articles of the Ordinance Regulating Radio Equipment

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The measurement was implemented in accordance with test methods temporarily determined by TAC.

1.6 Ancillary Equipment List

None.

2 Test Configuration of Equipment Under Test

2.1 Frequency Range of Group

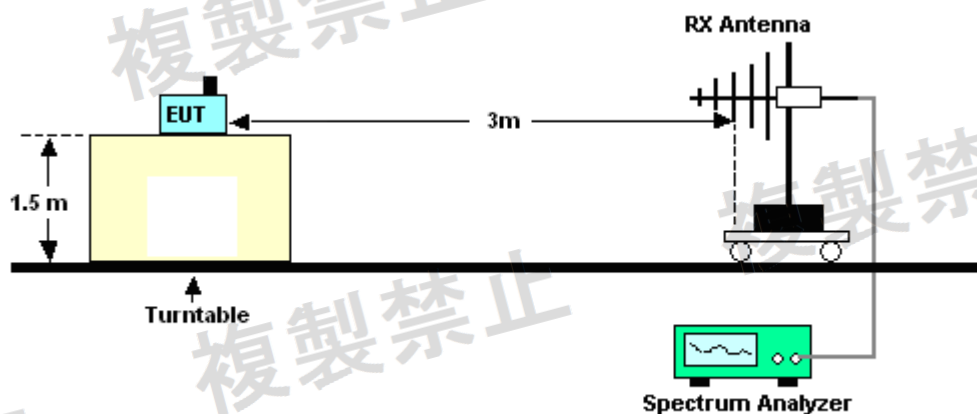
Group	Frequency Range (GHz)
HRP 2 + LRP 0 (60.16275 GHz)	60.11375 ~ 60.21175
HRP 2 + LRP 4 (60.79725 GHz)	60.74825 ~ 60.84625
HRP 3 + LRP 0 (62.32275 GHz)	62.27375 ~ 62.37175
HRP 3 + LRP 4 (62.95725 GHz)	62.90825 ~ 63.00625

2.2 EUT Operation Test Setup

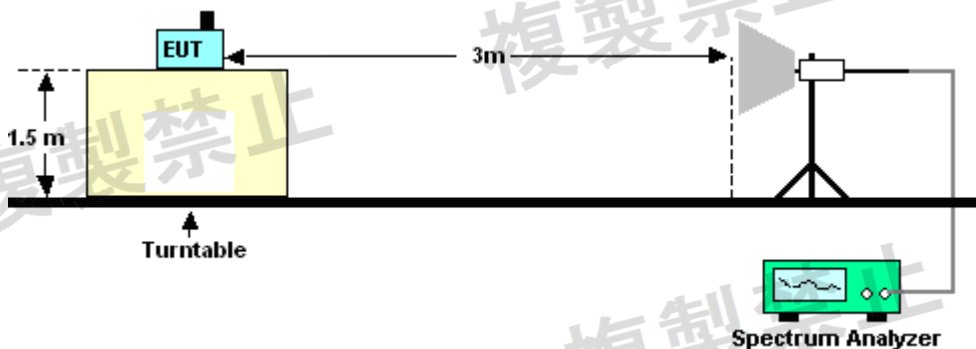
During testing, setup program provided by the customer was used to control the operating channel as well as the output power level.

2.3 Test setup

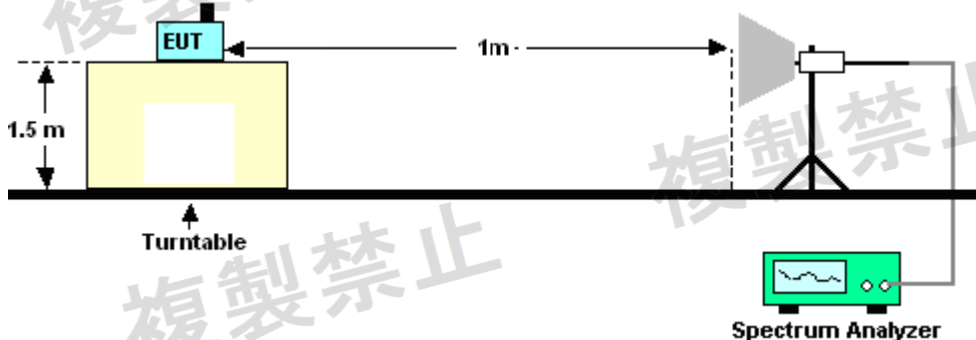
<Radiated measurement below 1GHz>



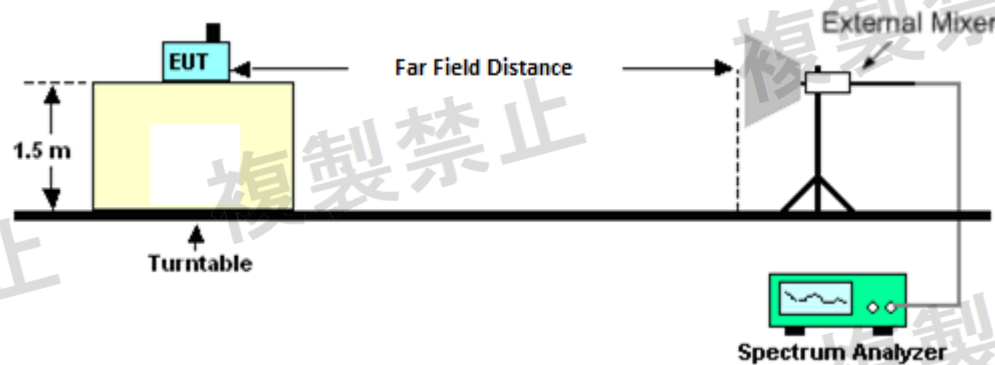
<Radiated measurement from 1GHz to 18GHz>



< Radiated measurement from 18GHz to 40GHz>



< Radiated measurement with mixer above 40GHz>



3 Test Result

3.1 Frequency Tolerance Measurement

3.1.1 Limit

Item	Limits
Frequency Tolerance	Within 57 ~ 66GHz

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

1. Setting of SA is following as: RBW:1MHz / VBW:1MHz.
2. The frequency tolerance test case is directly measured using spectrum analyzer.
3. Calculate occupied frequency range within specific frequency range.

3.1.4 Test Setup

See Clause 2.4 of this report.

3.1.5 Test Deviation

There is no deviation with the original standard.

3.1.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.1.7 Test Result of Frequency Tolerance

Please refer to Appendix A.

3.2 Occupied Bandwidth Measurement

3.2.1 Limit

Item	Limits
Occupied Bandwidth	≤ 9GHz

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. Setting of SA is following as: RBW: 1MHz / VBW: 1MHz / Sweep Mode: continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
2. EUT have transmitted each modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 7GHz.

3.2.4 Test Setup

See Clause 2.4 of this report.

3.2.5 Test Deviation

There is no deviation with the original standard.

3.2.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.2.7 Test Result of Occupied Bandwidth Measurement

Please refer to Appendix A.

3.3 Unwanted Emission Intensity Measurement

3.3.1 Limit

Item	Frequency	Limits
Tx Spurious Emission	$\leq 55.62\text{GHz}$	$\leq -30\text{dBm/MHz}$
	$55.62\text{GHz} < \text{and} \leq 57\text{GHz}$	$\leq -26\text{dBm/MHz}$
	$66\text{GHz} < \text{and} \leq 67.5\text{GHz}$	$\leq -26\text{dBm/MHz}$
	$67.5\text{GHz} < \text{and} \leq 2 \text{ times of operational frequency}$	$\leq -30\text{dBm/MHz}$

3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. EUT have transmitted the maximum power.
2. Setting of SA is following as: RBW: 1 MHz / VBW: 1 MHz between 1GHz and 2 times of operational frequency / Sweep points: More than 400 points / Sweep Mode: Single Sweep / Detect mode: Positive Peak.
3. Setting of SA is following as: RBW: 100 kHz / VBW: 100 kHz under 1GHz, Sweep time: Auto / Sweep Mode: Single sweep / Detect mode: Positive peak.
4. Any mark peak reading value + cable loss shall be less than the limits listed in clause 3.3.1.
5. If the value in Step 4 is over the limits, the setting of SA should be following as: RBW: 100 kHz for below 1GHz, 1 MHz for above 1 GHz / VBW = RBW / Detector: Sample / Sweep points: More than 400 points / Sweep Mode: Single Sweep.

3.3.4 Test Setup

See Clause 2.4 of this report.

3.3.5 Test Deviation

There is no deviation with the original standard.

3.3.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.3.7 Test Result of Unwanted Emission Intensity

Please refer to Appendix A.

3.4 RF Output Power / Tolerance and EIRP Power

3.4.1 Limit

Item	Limits
Antenna Power	≤ 10 mW
Antenna Power Error	+50%, -70%

3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

1. Connect RF detector to the Oscilloscope, and find worst angle of EUT.
2. Record the worst peak voltage reading on the Oscilloscope.
3. Replace EUT with a signal generator. Set the generator at the same frequency as the EUT.
4. Place an adjustable attenuator at the output of signal generator.
5. Adjust the attenuator until the peak voltage reading on the Oscilloscope is same as the value recorded in step 2.
6. Measure the power with power meter after the adjusting is done.
7. The measured power + horn antenna gain is the EIRP power of EUT.
8. $\text{EIRP} - \text{Declared antenna gain of EUT} = \text{Antenna Power}$

3.4.4 Test Deviation

There is no deviation with the original standard.

3.4.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.4.6 Test Result of RF Output Power / Tolerance and EIRP Power

Please refer to Appendix A.

3.5 Limitation of Collateral Emission of Receiver Measurement

3.5.1 Limit

Item	Frequency	Limits
Rx Spurious Emission	< 1GHz	$\leq 4 \text{ nW}$
	> 1GHz	$\leq 20 \text{ nW}$

3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

1. EUT have the continuous reception mode and fixed only one channelize.
2. SA set RBW: 100KHz and VBW: 100KHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4 nW.
3. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 1GHz and stop frequency 2 times of operation frequency. Search to mark peak reading value + cable loss shall be less than 20 nW.
4. If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

3.5.4 Test Setup

See Clause 2.4 of this report.

3.5.5 Test Deviation

There is no deviation with the original standard.

3.5.6 EUT Operation during Test

The EUT was programmed to be in continuously reception mode.

3.5.7 Test Result of Limitation of Collateral Emission of Receiver

The EUT can't not operate in receive only mode.

3.6 Radio Interference Prevention Function Measurement

3.6.1 Requirement

The EUT shall comply one of the following requirement:

- When connecting to a telecommunications line : "RERL Article 6-2 3"
When not connecting to a telecommunications line : "RERL Article 6-2 3" or "RERL Article 6-2 4"
- Chiefly, the one automatically to transmit and to receive identification code with the wireless equipment of the wireless station used in the same premises.
- Radio Equipment of Specified Low-Power Radio Stations (The thing only which do not connect to telecommunications line) , switch of frequency by user, or the thing which can perform a stop of the discharge of the radio wave easily.

EUT Interference Prevention Mechanism:	
☐	EUT is connected to a telecommunications line
☐	Complies with RERL Article 6-2 Item 3
☒	EUT is not connected to a telecommunications line
☐	Complies with RERL Article 6-2 Item 3 (Automatic ID code exchange)
☒	Complies with RERL Article 6-2 Item 4 (User-controlled frequency switching or emission stop)

3.6.2 Test Result of Radio Interference Prevention Function

The EUT has the Function.

3.7 Construction Protection Confirmation Method

3.7.1 Requirement

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

3.7.2 Confirmation Method

☒	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Chassis is glued using a special adhesive.
☐	Metal covers are spot-fused.
☐	Cover is specially interlocked.
☐	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	Other :

3.7.3 The Photos of Construction Protection



3.8 Carrier Sense Mechanism

3.8.1 Requirement

If output power of EUT exceeds 10mW, then the Carrier Sense Mechanism should be employed.

3.8.2 Test Result of Carrier Sense Mechanism

Not applicable. The output power of EUT does not exceed 10mW.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Test Date	Due Date	Calibration Body	Calibration Method
Bilog Antenna	TESEQ	CBL 6111D	55608	Nov. 27, 2024	Feb. 21, 2025	Nov. 26, 2025	Sporton, R.O.C	C
Horn Antenna	ETS-Lindgren	3117	00227636	May 15, 2024	Feb. 21, 2025	May 14, 2025	ETC, R.O.C	C
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170576	May 18, 2024	Feb. 21, 2025	May 17, 2025	ETC, R.O.C	C
Spectrum Analyzer	Rohde & Schwarz	FSV40	101756	Dec. 26, 2024	Feb. 21, 2025	Dec. 25, 2025	ETC, R.O.C	C
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101249	Dec. 13, 2024	Feb. 21, 2025	Dec. 12, 2025	ETC, R.O.C	C
Preamplifier	COM-POWER	PAM-103	18020178	Feb. 04, 2025	Feb. 21, 2025	Feb. 03, 2026	Sporton, R.O.C	C
Preamplifier	EM Electronics	EM01G18G	060805	Jul. 23, 2024	Feb. 21, 2025	Jul. 22, 2025	Sporton, R.O.C	C
Preamplifier	EMEC	EM18G40G	060801	May 27, 2024	Feb. 21, 2025	May 26, 2025	ETC, R.O.C	C
Hygrometer	TECPEL	DTM-303B	TP210117	Oct. 08, 2024	Feb. 21, 2025	Oct. 07, 2025	ETC, R.O.C	C
Controller	EMEC	EM1000	N/A	N/A	Feb. 21, 2025	N/A	N/A	N/A
Antenna Mast	ChainTek	MD-200	1308055	N/A	Feb. 21, 2025	N/A	N/A	N/A
Turn Table	EMEC	TT 2000	N/A	N/A	Feb. 21, 2025	N/A	N/A	N/A
Test Software	Audix E3	9.2021-6-16	RK-002312	N/A	Feb. 21, 2025	N/A	N/A	N/A
Spectrum Analyzer	Rohde & Schwarz	FSW43	101456	Feb. 20, 2025	Mar. 17, 2025	Feb. 19, 2026	Sporton, R.O.C	C
Harmonic Mixer	Rohde & Schwarz	RPG FS-Z75	102042	Jun. 27, 2024	Mar. 17, 2025	Jun. 26, 2025	HCT ilac.MRA_KOLAS	C
Harmonic Mixer*	Rohde & Schwarz	RPG FS-Z60	101033	Jun. 27, 2024	Mar. 17, 2025	Jun. 26, 2025	HCT ilac.MRA_KOLAS	C
Harmonic Mixer*	Rohde & Schwarz	FSZ-90	101867	Jun. 27, 2024	Mar. 17, 2025	Jun. 26, 2025	HCT ilac.MRA_KOLAS	C
Harmonic Mixer*	Rohde & Schwarz	RPG FS-Z140	101130	Jun. 27, 2024	Mar. 17, 2025	Jun. 26, 2025	HCT ilac.MRA_KOLAS	C
Antenna	Quinstar	QWH-VPRR00	1371800008	Jun. 27, 2024	Mar. 17, 2025	Jun. 26, 2025	HCT ilac.MRA_KOLAS	C
Antenna	Quinstar	QWH-UPRR00	1410300003	Jun. 27, 2024	Mar. 17, 2025	Jun. 26, 2025	HCT ilac.MRA_KOLAS	C
Antenna	Quinstar	QWH-EPRR00	1372000000	Jun. 27, 2024	Mar. 17, 2025	Jun. 26, 2025	HCT ilac.MRA_KOLAS	C
Antenna	Quinstar	QWH-FPRR00	1011500008	Jun. 27, 2024	Mar. 17, 2025	Jun. 26, 2025	HCT ilac.MRA_KOLAS	C
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801607/2	Dec. 25, 2024	Mar. 17, 2025	Dec. 24, 2025	Sporton, R.O.C	C
RF Cable	HUBER + SUHNER	SUCOFLEX 102	591231/2	Dec. 25, 2024	Mar. 17, 2025	Dec. 24, 2025	Sporton, R.O.C	C
Detector	Quinstars	QEA-FBFBVP	2672009	Jul. 09, 2024	Mar. 17, 2025	Jul. 08, 2025	HCT ilac.MRA_KOLAS	C
Oscilloscope	Rohde & Schwarz	RTO 1002	400025	Sep. 25, 2024	Mar. 17, 2025	Sep. 24, 2025	ROHDE & SCHWARZ	C
Thermal Chamber	ESPEC	SU-641	92013721	Oct. 08, 2024	Mar. 17, 2025	Oct. 07, 2025	ETC, R.O.C	C
AC Power Source	AC POWER	AFC-500W	F104070011	N/A	Mar. 17, 2025	N/A	N/A	N/A

Note:

1. Acceptance criteria was formulated according to ISO/IEC 17025:2017 clause 6.5.3, the regular inspection is performed based on it annually.
2. Acceptance criteria was formulated according to IEEE ANSI C63.10-2013 clause 4.4.3 a), the inspection of antenna outline is performed annually.

Calibration Method :

- a) : Calibration conducted by the National Institute of Information and Communications Technology ~ NICT ~ or a designated calibration agency under Article 102-18 paragraph (1) TELEC Engineering Center, Intertek Japan K.K., Keysight Technologies, Inc ~.
- b) : Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) ~ Japan Calibration Service System ~
- c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph.



Appendix A. Test Results

Please refer to the following pages for test results.

1. TEST RESULTS DATA
Data Communication System - 60GHz Band

Environment of Test Room	Temperature	22.8 ~ 23.2 °C
	Humidity	50.2 ~ 56.3 %
	Operating Voltage	5.00 Vdc
Declaration Output Power	1.40	mW
Declaration Output Power	1.46	dBm
E.I.R.P	5.46	dBm

Modulatooin Type :	2ASK
Antenna Type :	Integrated
Antenna Gain :	4.00 dBi
Testing Engineer	Eric Jeng

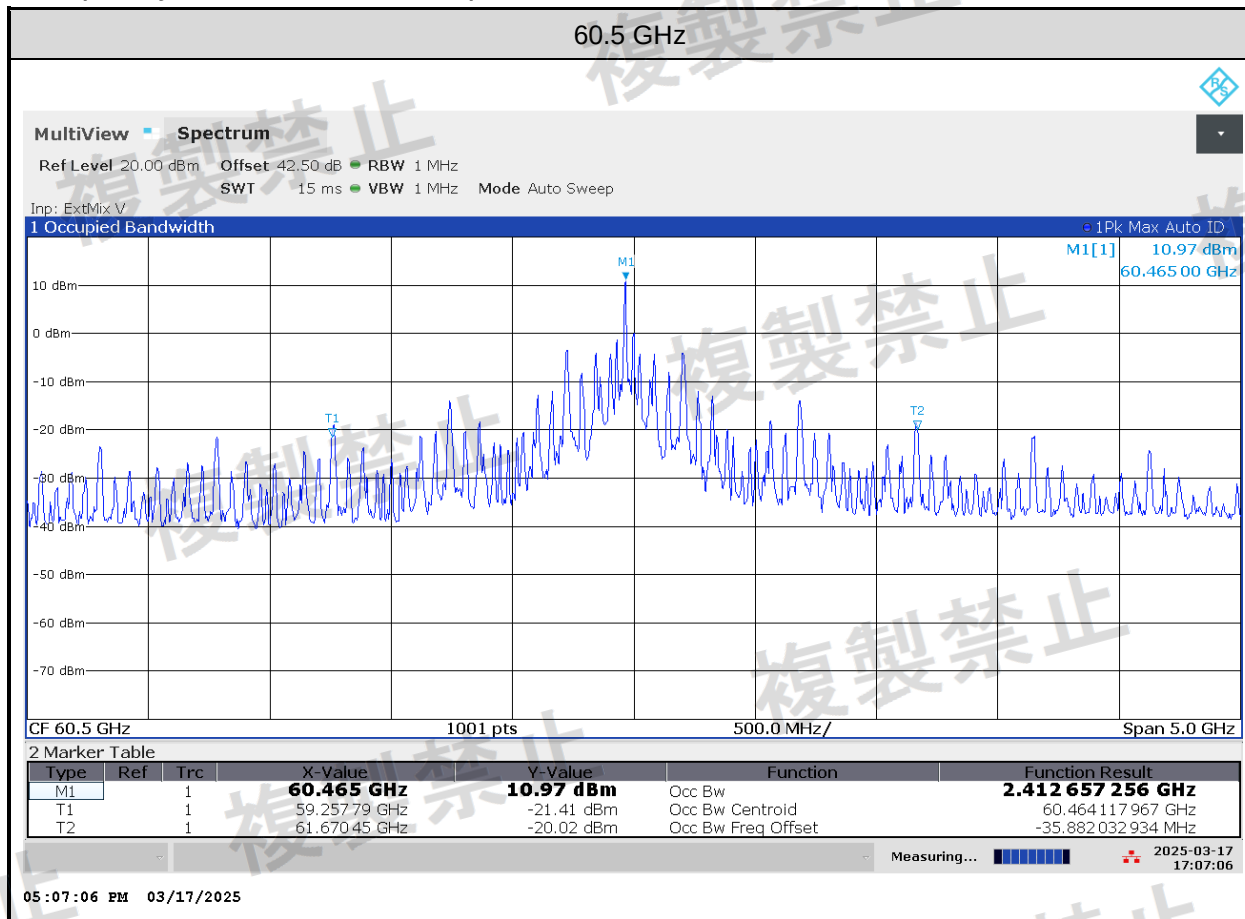
1. TEST Results

Measurement Frequency		GHz	60.5	Result	Limit
Low Operating Band Edge		GHz	59.25779	PASS	≥ 57
High Operating Band Edge		GHz	61.67045	PASS	≤ 66
Occupied Bandwidth		GHz	2.41266	PASS	≤ 9
RF Output Power		mW	1.32	PASS	----
RF Output Power Tolerance		%	-5.62	PASS	(+50 / -70)
EIRP power		dBm	5.21	----	----
Unwanted Emission Strength	30 MHz - 1 GHz	dBm/MHz	-61.58	PASS	≤ -30
		MHz	58	----	----
	1 GHz - 18 GHz	dBm/MHz	-48.39	PASS	≤ -30
		MHz	16779	----	----
	18 GHz - 40 GHz	dBm/MHz	-42.00	PASS	≤ -30
		MHz	20152	----	----
	40 GHz - 55.62 GHz	dBm/MHz	-48.79	PASS	≤ -30
		MHz	48733	----	----
	55.62 GHz - 57 GHz	dBm/MHz	-48.51	PASS	≤ -26
		MHz	56864	----	----
	66 GHz - 67.5 GHz	dBm/MHz	-47.99	PASS	≤ -26
		MHz	67173	----	----
	67.5 - 128 GHz	dBm/MHz	-36.78	PASS	≤ -30
		MHz	89925	----	----
Secondarily Emitted Radio Wave Strength (RX Spurious)	30 MHz - 1 GHz	nW	0.25	PASS	≤ 4
		MHz	59	----	----
	1 GHz - 40 GHz	nW	9.89	PASS	≤ 20
		MHz	20152	----	----
	40 - 128 GHz	nW	15.03	PASS	≤ 20
		MHz	60016	----	----
Interference Prevention Function		----	good	PASS	
Carrier Sense Mechanism		----	Declaration output power does not exceed 10 mW	NA	

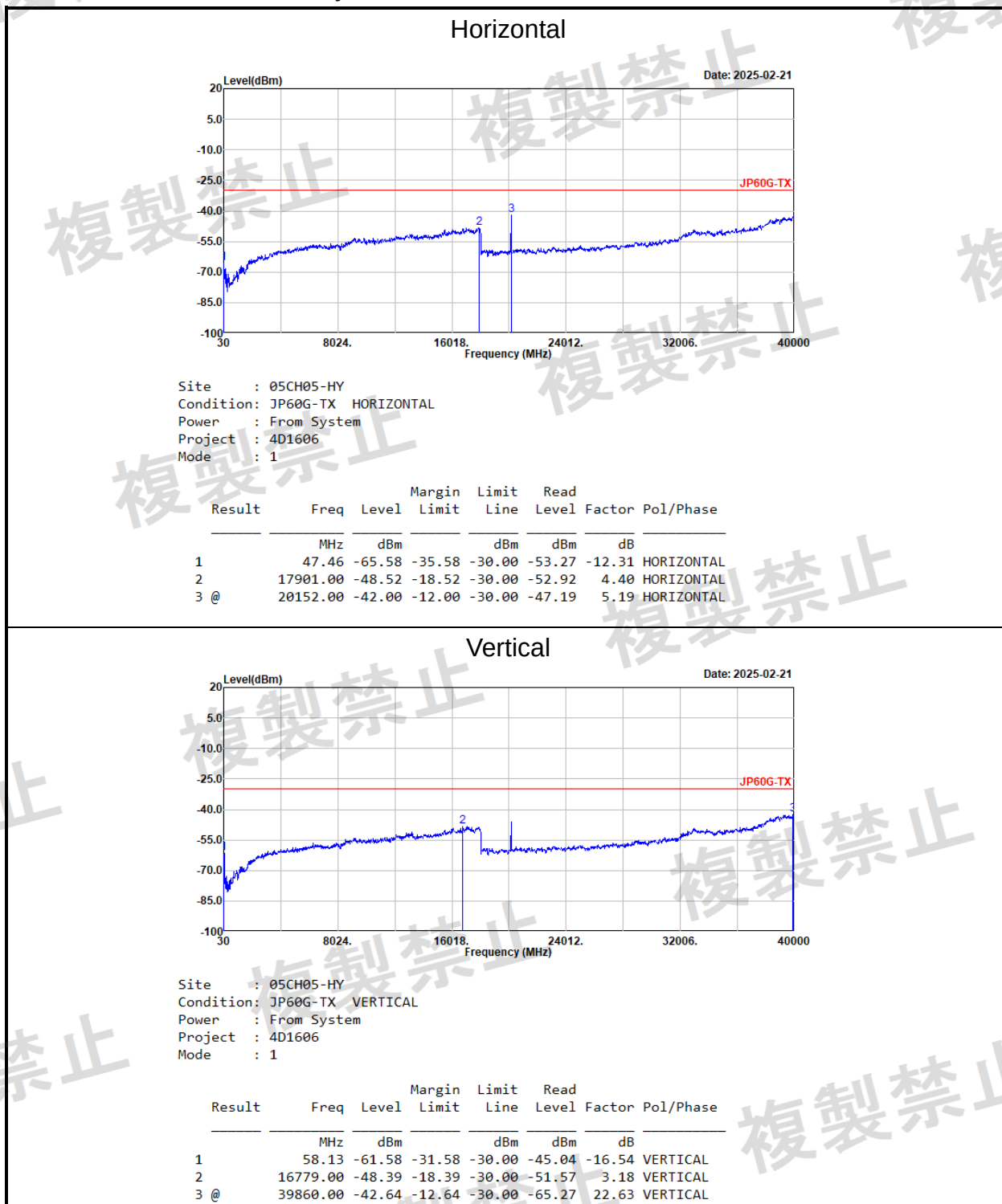


Appendix B. Test Plots

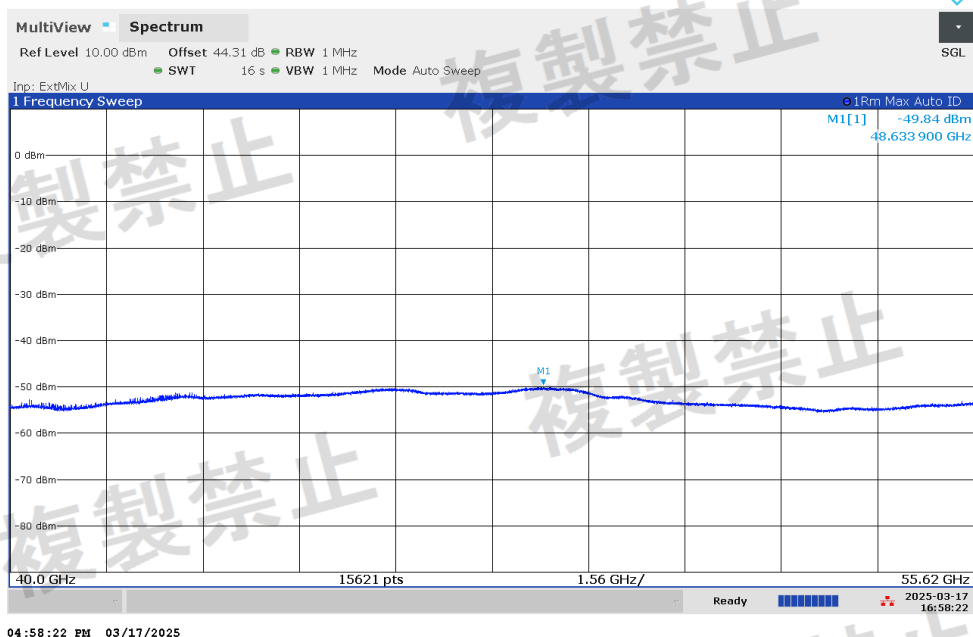
B.1. Frequency Tolerance and Occupied Bandwidth



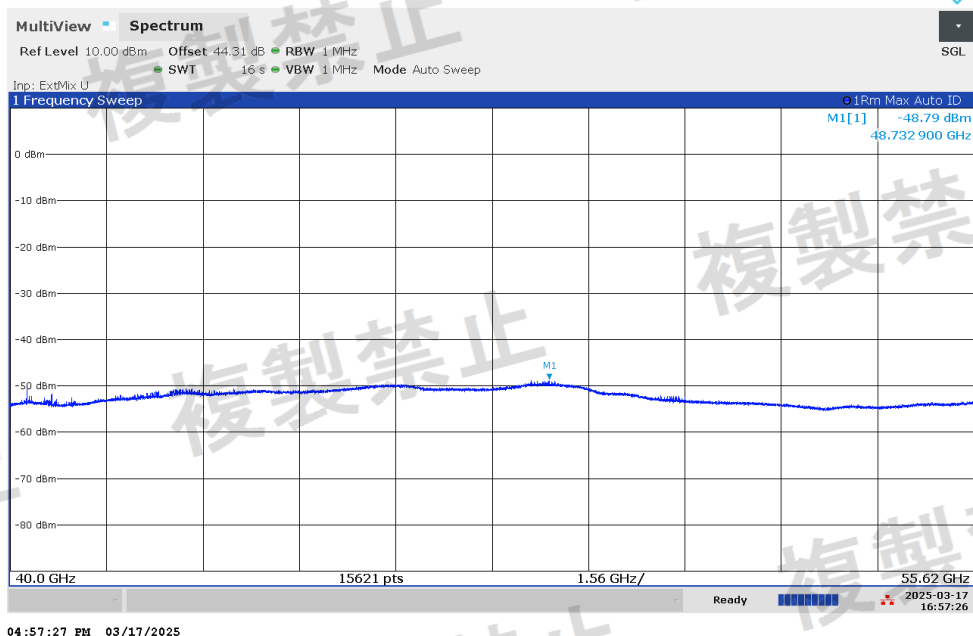
B.2. Unwanted Emission Intensity



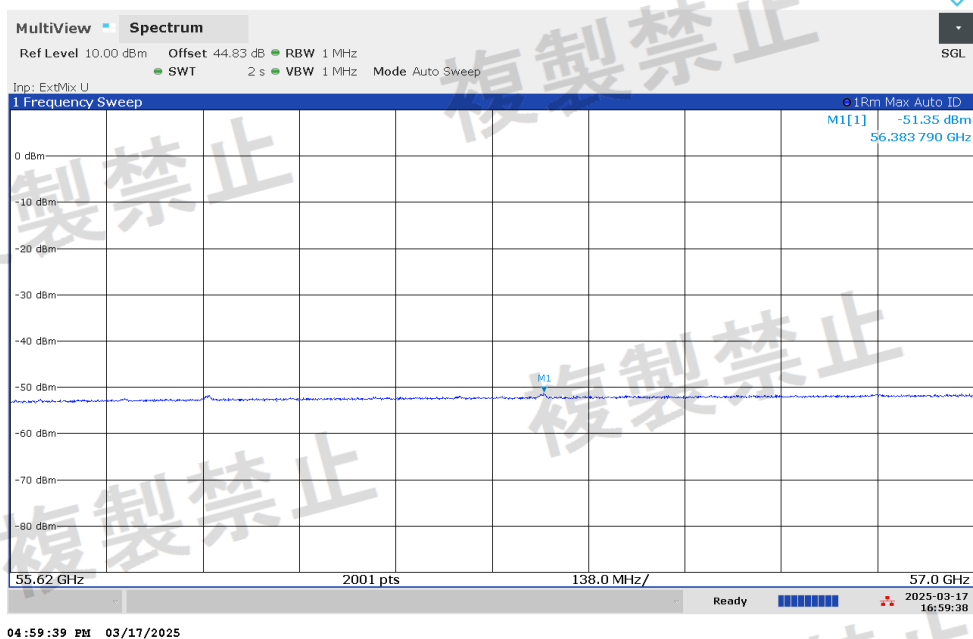
Horizontal



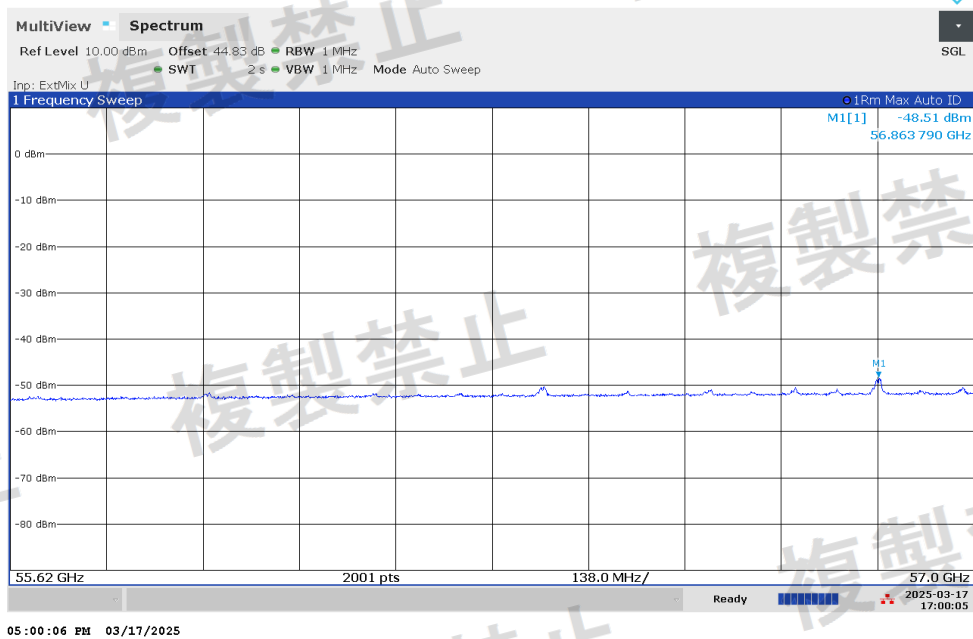
Vertical



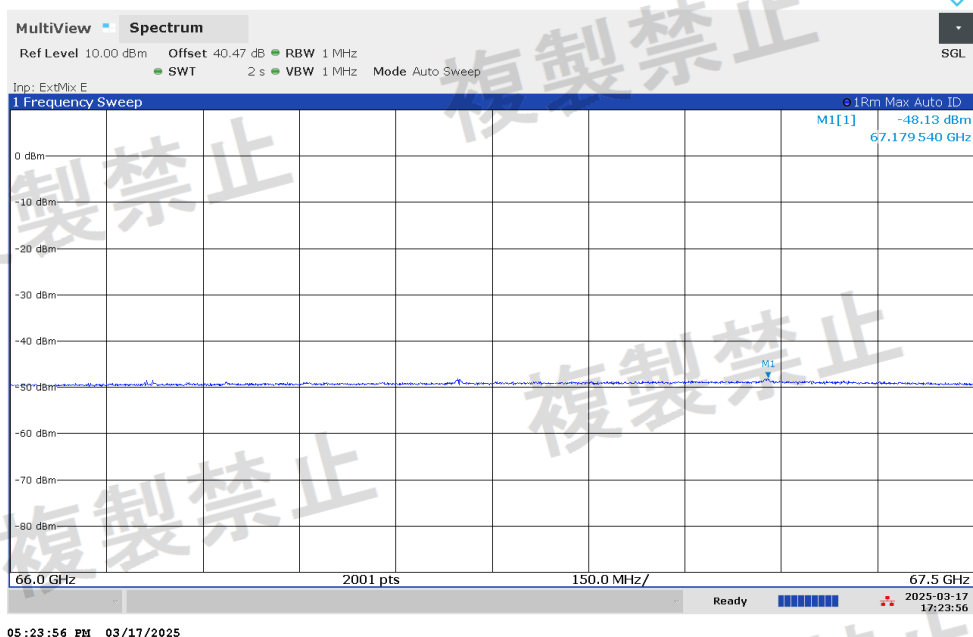
Horizontal



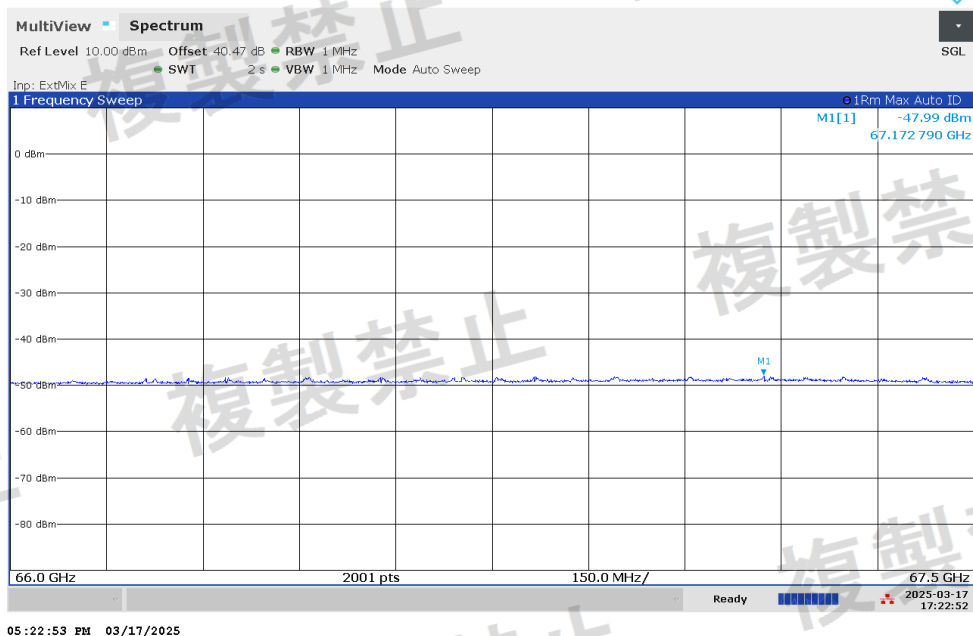
Vertical



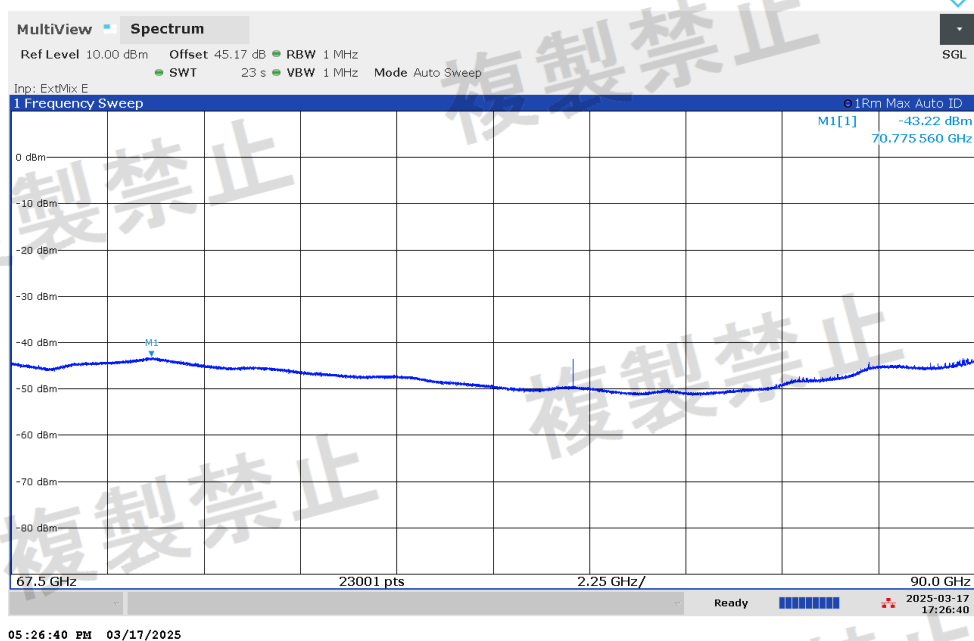
Horizontal



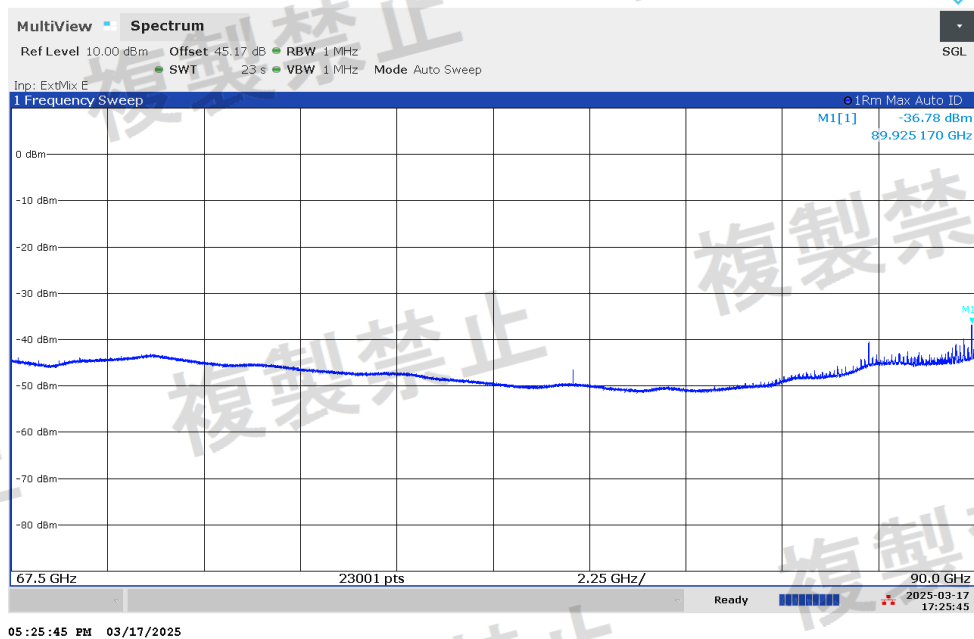
Vertical



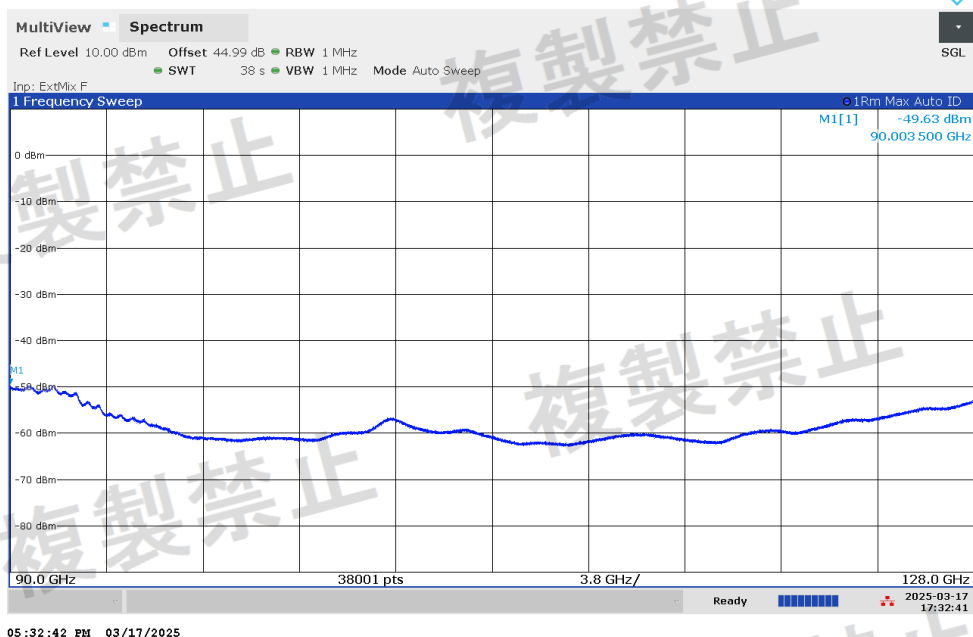
Horizontal



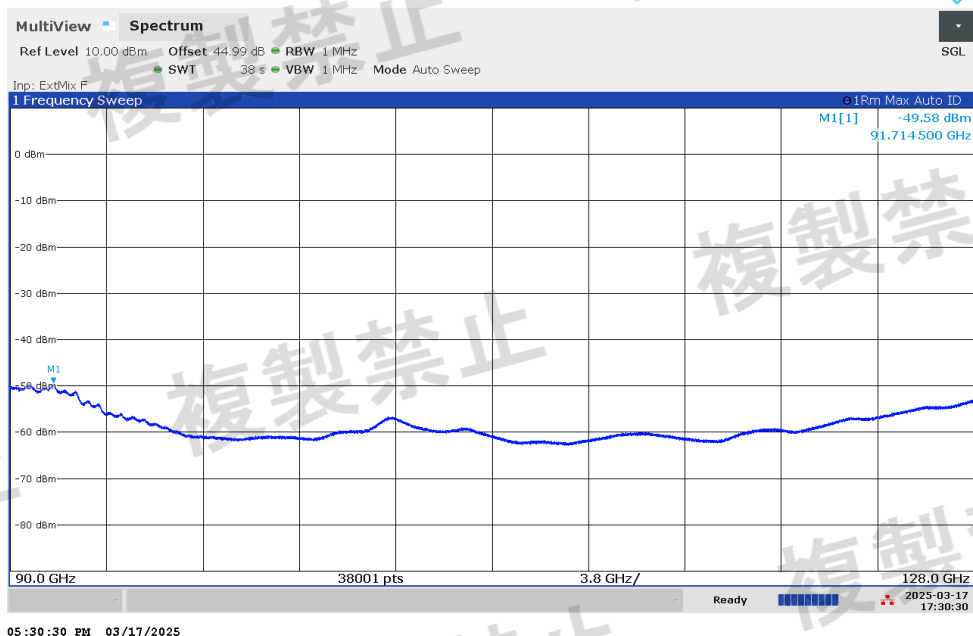
Vertical



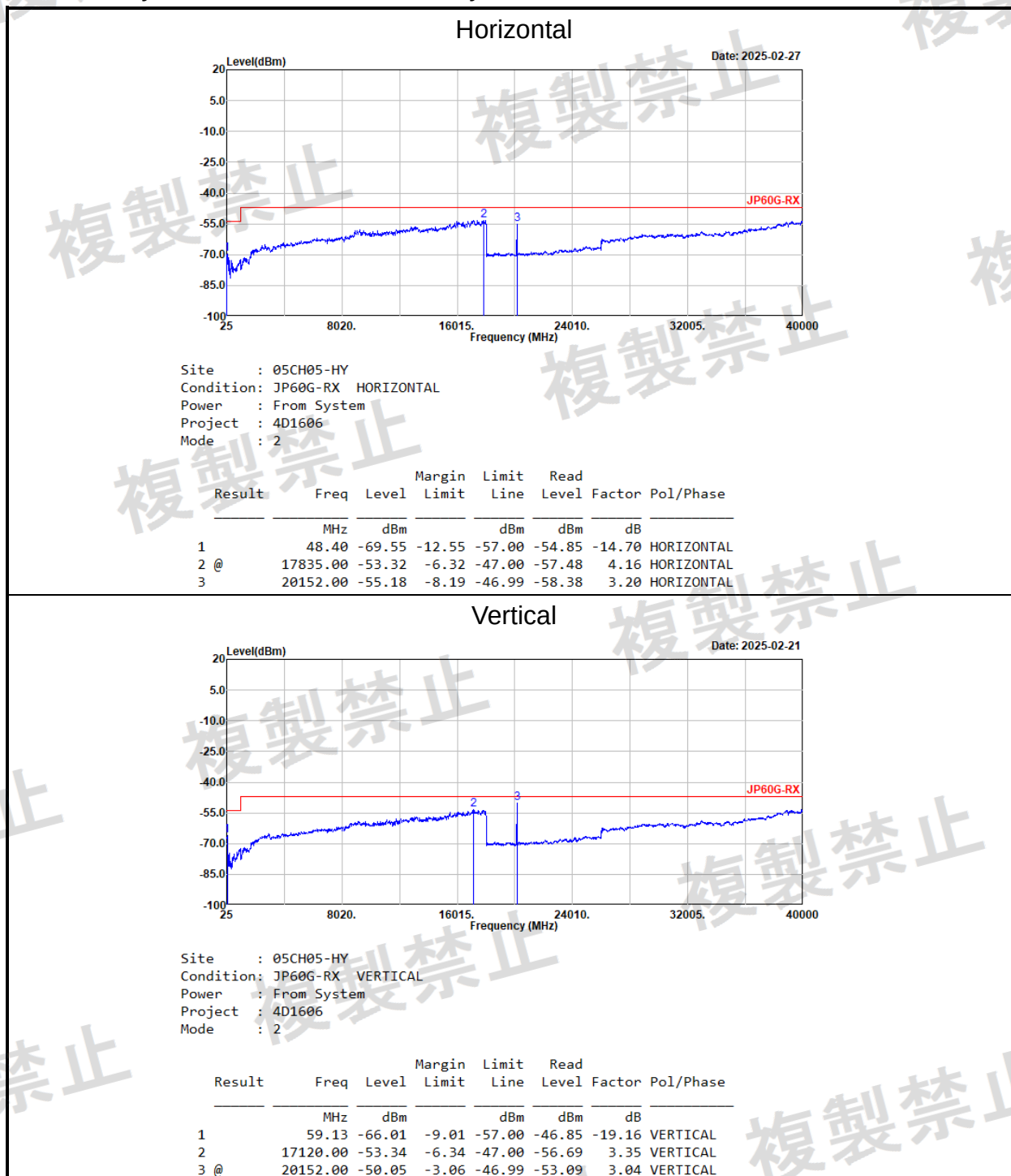
Horizontal



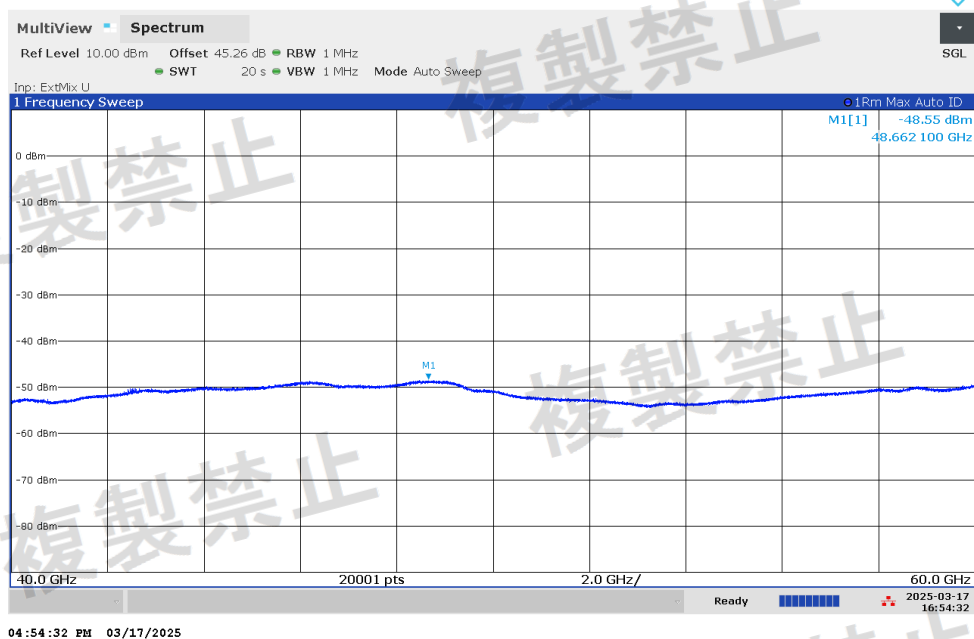
Vertical



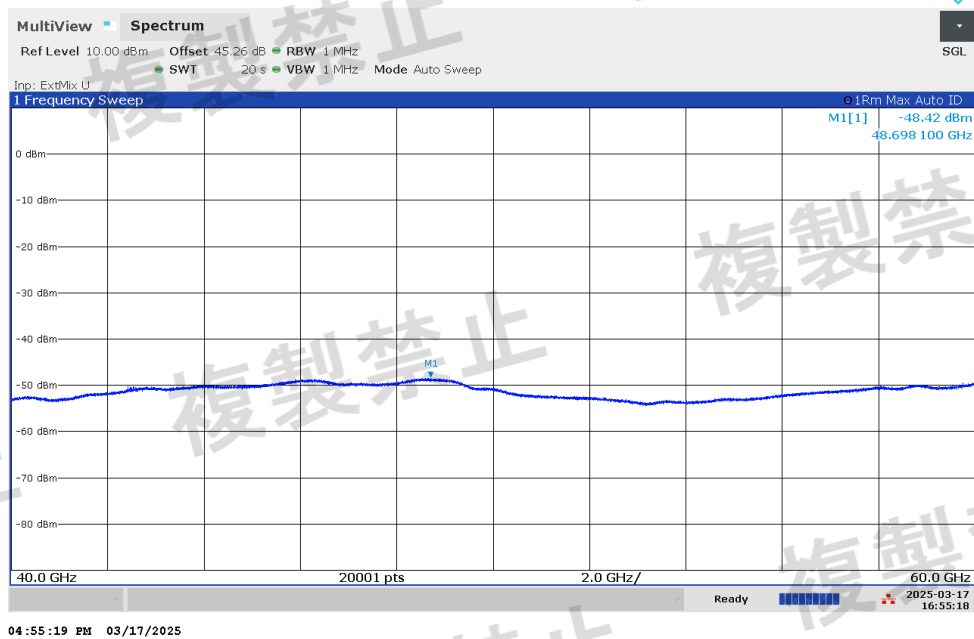
B.3. Secondly Radiated Emission Intensity



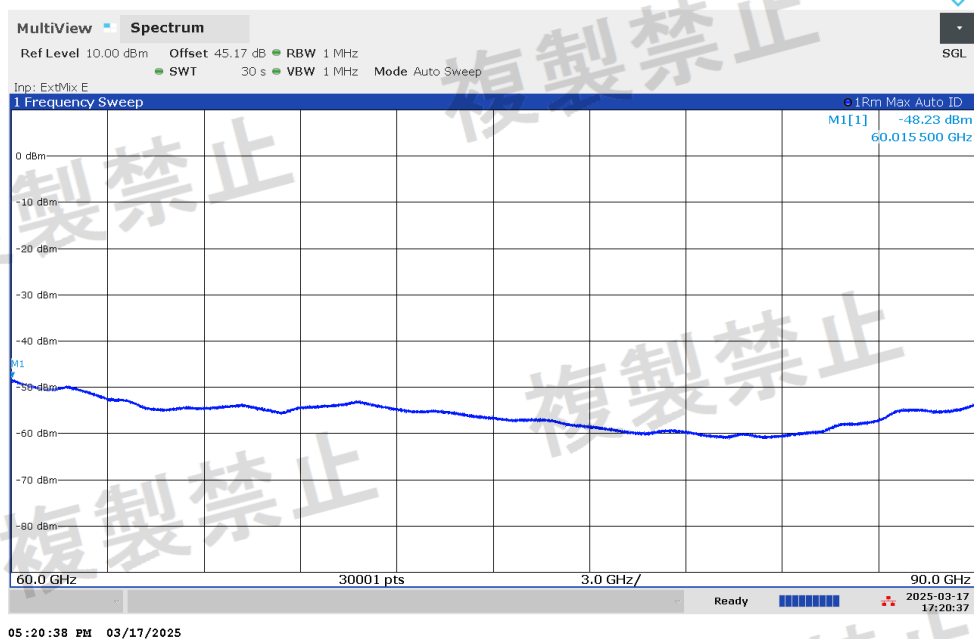
Horizontal



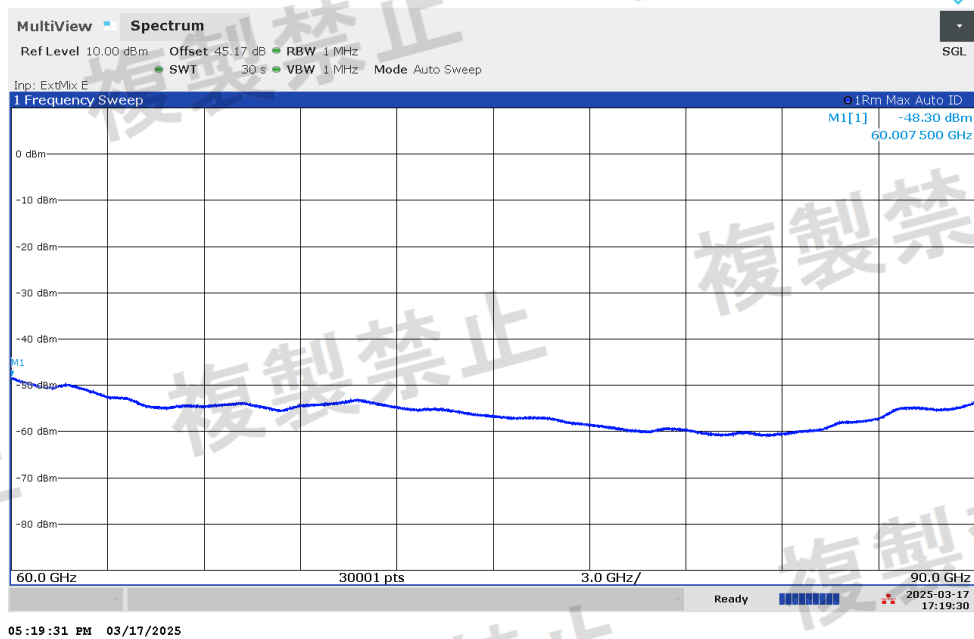
Vertical



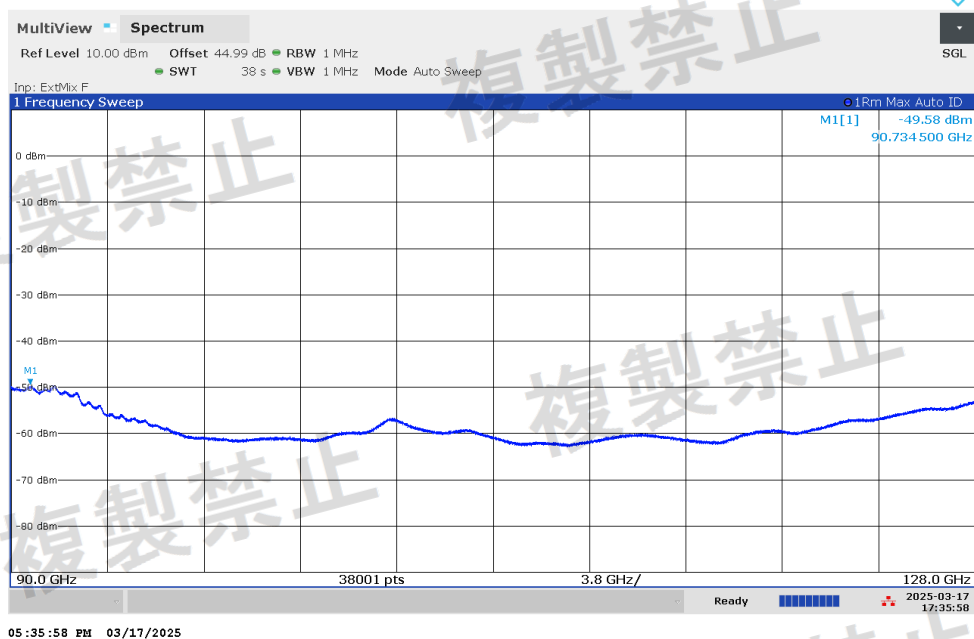
Horizontal



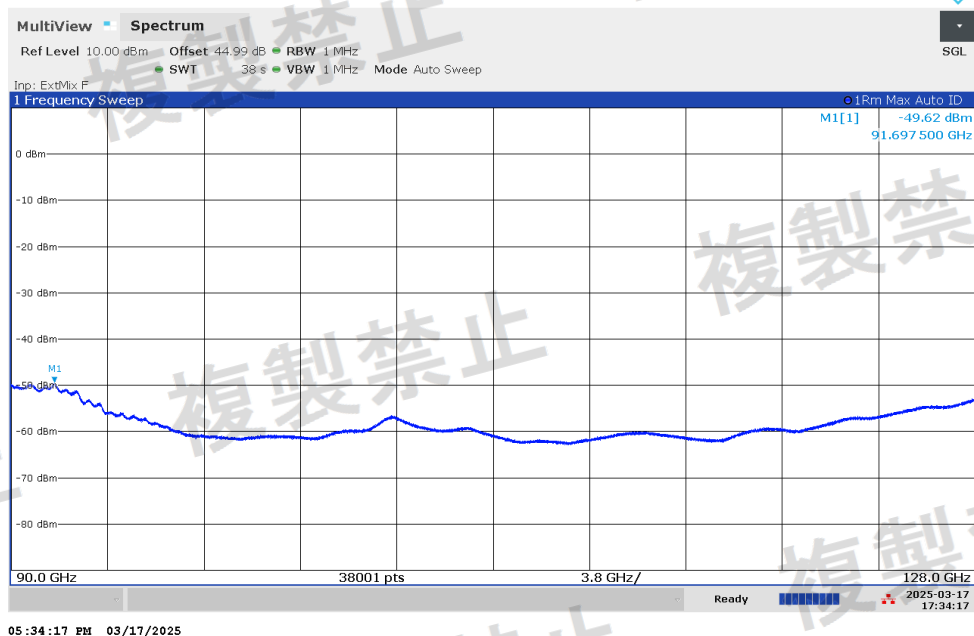
Vertical



Horizontal



Vertical



—THE END—

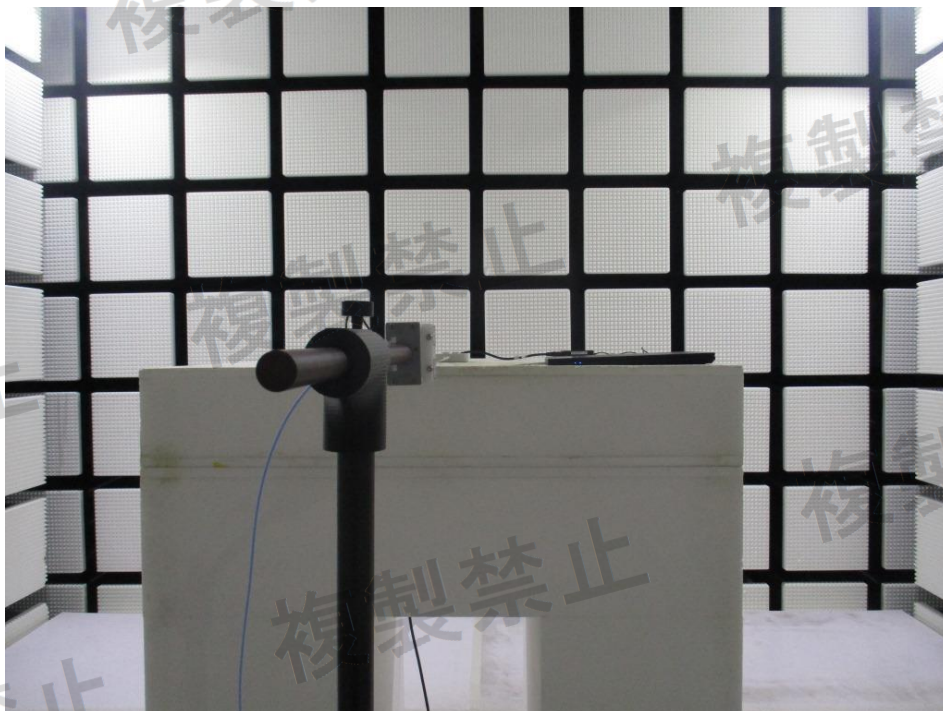
Appendix C. Setup Photographs

<Radiated Emission>

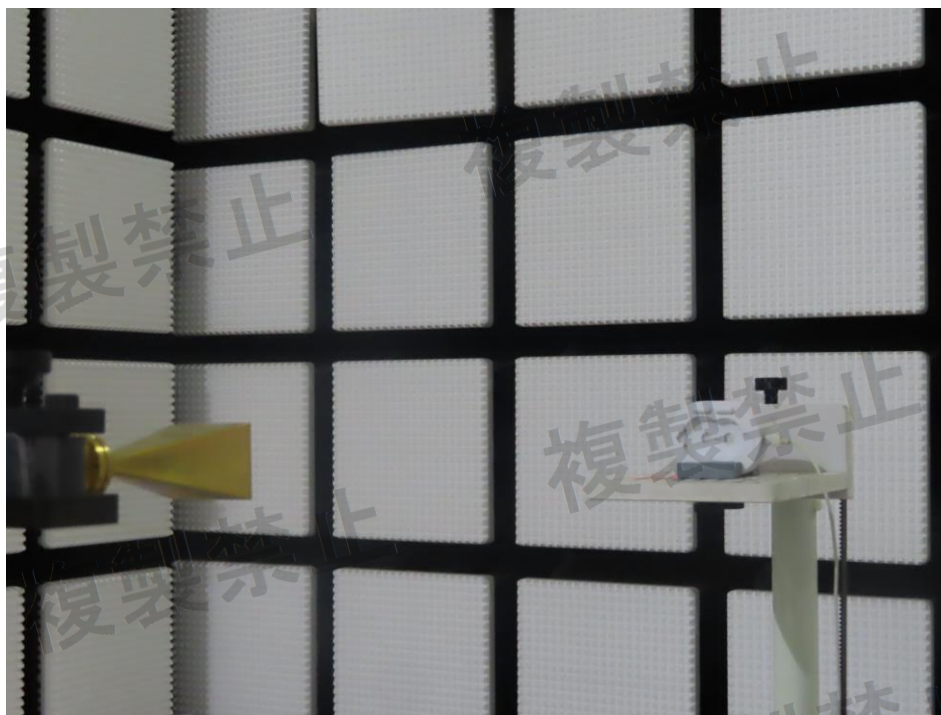
30MHz ~ 18GHz



18GHz ~ 40GHz



40GHz ~ 55.62GHz



55.62GHz ~ 57GHz & 66GHz ~ 67.5



67.5GHz ~ 90GHz



90GHz ~ 128GHz



—THE END—