

FCC PART 15.231

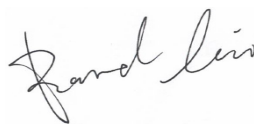
TEST REPORT

For

ZHEJIANG JIECANG LINEAR MOTION TECHNOLOGY CO., LTD

No.19 XinTao Road, Provincial High Tech Park, XinChang county, ZheJiang, Province, 312500 China

FCC ID: 2ANKDJCP-Y4Y6-H-0

Report Type: Original Report	Product Name: Wi-Fi Bridge
Report Number: RSHA240522002-00B	
Report Date: 2025-01-23	
Reviewed By:	Bard Liu 
Approved By:	Kyle Xu 
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S.Government.

TABLE OF CONTENTS

REPORT REVISION HISTORY.....	4
GENERAL INFORMATION.....	5
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
OBJECTIVE	5
TEST METHODOLOGY	5
MEASUREMENT UNCERTAINTY.....	6
TEST FACILITY	6
SYSTEM TEST CONFIGURATION.....	7
JUSTIFICATION	7
EUT EXERCISE SOFTWARE	7
EQUIPMENT MODIFICATIONS	7
SUPPORT EQUIPMENT LIST AND DETAILS	7
EXTERNAL I/O CABLE.....	7
BLOCK DIAGRAM OF TEST SETUP	8
SUMMARY OF TEST RESULTS	10
TEST EQUIPMENT LIST	11
FCC §1.1310 & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE).....	12
FCC§15.203 - ANTENNA REQUIREMENT.....	14
APPLICABLE STANDARD	14
ANTENNA CONNECTED CONSTRUCTION	14
FCC §15.207 (A) – AC POWER LINE CONDUCTED EMISSIONS	15
APPLICABLE STANDARD	15
TEST SYSTEM SETUP.....	15
EMI TEST RECEIVER SETUP.....	15
TEST PROCEDURE	16
TEST RESULTS SUMMARY	16
FCC §15.205, §15.209, §15.231 (B) - RADIATED EMISSIONS	17
APPLICABLE STANDARD	17
TEST SYSTEM SETUP	18
EMI TEST RECEIVER SETUP.....	20
TEST PROCEDURE	20
TEST RESULTS SUMMARY	20
TEST DATA: SEE APPENDIX	20
FCC §15.231(A) (2) - DEACTIVATION TESTING.....	21
APPLICABLE STANDARD	21
TEST SYSTEM SETUP	21
TEST PROCEDURE	21
TEST DATA: SEE APPENDIX	21
FCC §15.231(C) - 20DB EMISSION BANDWIDTH TESTING.....	22
APPLICABLE STANDARD	22
TEST SYSTEM SETUP	22
TEST PROCEDURE	22
TEST DATA: SEE APPENDIX	22
APPENDIX - TEST DATA.....	23

ENVIRONMENTAL CONDITIONS & TEST INFORMATION.....	23
AC POWER LINE CONDUCTED EMISSIONS.....	24
RADIATED EMISSIONS.....	26
DEACTIVATION TESTING.....	31
20 dB EMISSION BANDWIDTH TESTING.....	32
EUT PHOTOGRAPHS	33
TEST SETUP PHOTOGRAPHS	34

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RSHA240522002-00B	R1V1	2025-01-23	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	ZHEJIANG JIECANG LINEAR MOTION TECHNOLOGY CO., LTD
Product Name:	Wi-Fi Bridge
Tested Model:	JCP-Y4Y6-H-0
Power Supply:	DC 5V from adapter
RF Function:	SRD
Operating Band/Frequency:	433.92 MHz
Field Strength of Fundamental	79.57 dBμV/m@3m
Channel Number:	1
Modulation Type:	ASK; FSK
Antenna Type:	Spring Antenna

Adapter Information:

Model: MLF-A260502000UU

Input: AC 100-240V, 50/60Hz, 0.4A max

Output: DC 5.0V, 2.0A

All measurement and test data in this report was gathered from production sample serial number: RSHA240522002-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2024-05-22.)

Objective

This test report is prepared for *ZHEJIANG JIECANG LINEAR MOTION TECHNOLOGY CO., LTD*. All the test measurements were performed according to the measurement procedure described in ANSI C63.10 - 2013.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209, 15.35(c) and 15.231 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10 - 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
RF conducted test with spectrum		0.9 dB
Radiated emission	9 kHz~150 kHz	3.8 dB
	150 kHz~30 MHz	3.4 dB
	30 MHz~1 GHz	6.11 dB
	1 GHz~6 GHz	4.45 dB
	6 GHz~18 GHz	5.23 dB
Occupied Bandwidth		0.5 kHz
Temperature		1.0 °C
Humidity		6%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

SYSTEM TEST CONFIGURATION

Justification

Channel List:

Channel	Frequency (MHz)
1	433.92

EUT Exercise Software

Engineering Mode was provided by manufacturer★. The maximum power was configured default setting.

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

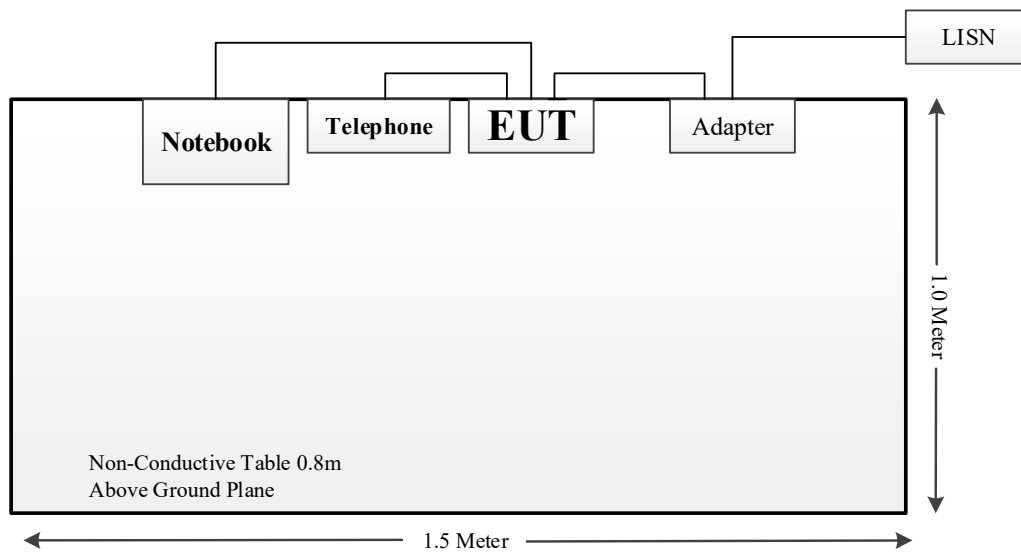
Manufacturer	Description	Model	Serial Number
Lenovo	Notebook	Y700P	PF2B7PL5
/	Telephone	/	TX-KS-A044

External I/O Cable

Cable Description	Length (m)	From Port	To Port
Power Cable	1.0	AC Source/LISN	Adapter
USB Cable	3.0	EUT	Adapter
RJ45 Cable	1.5	EUT	Notebook
RJ11 Cable	3.0	EUT	Telephone

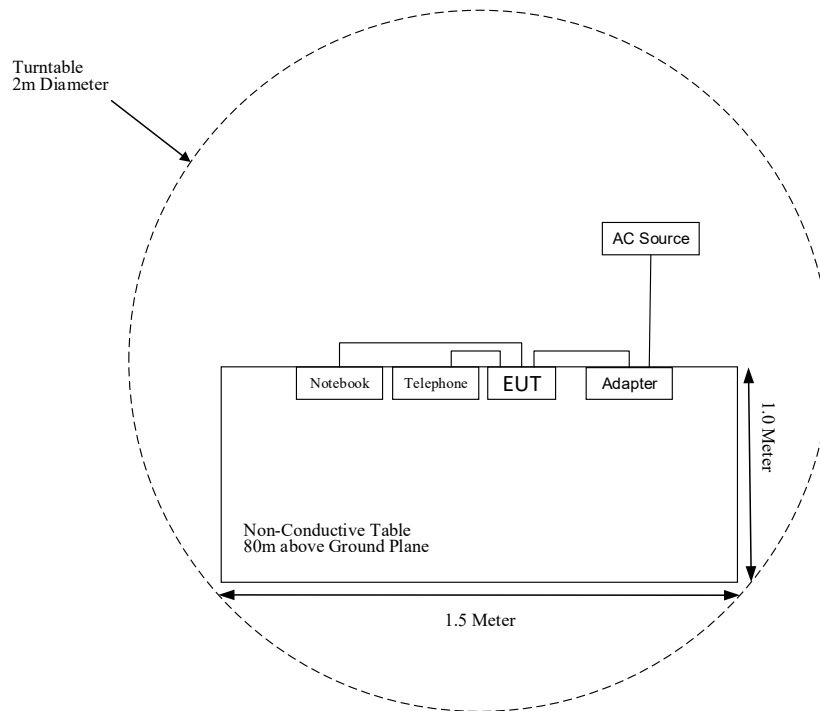
Block Diagram of Test Setup

For Conducted Emissions:

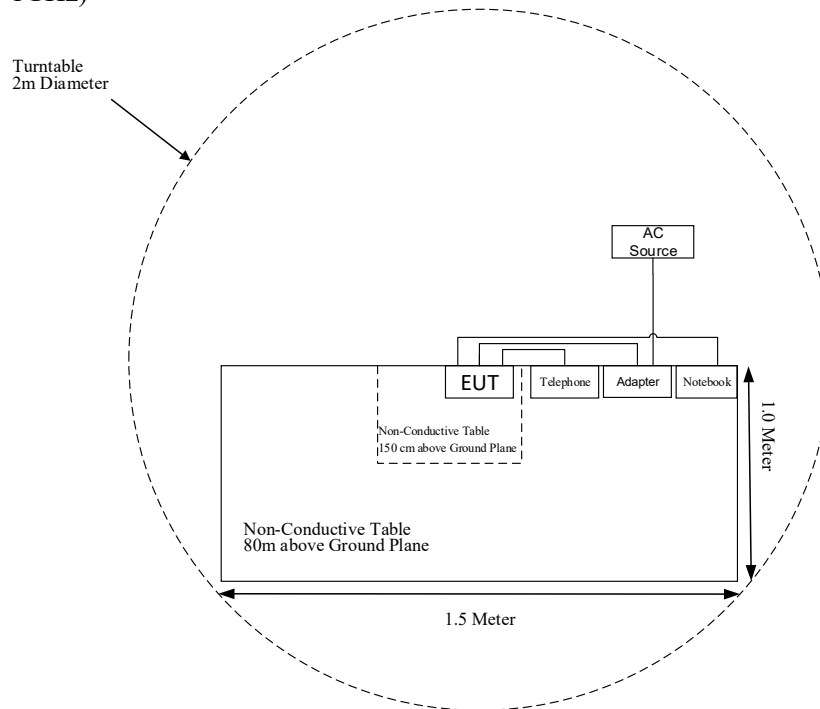


For Radiated Emissions(Below 1GHz & Abve 1GHz):

For adapter (Below 1GHz)



For adapter (Abve 1GHz)



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310 & §2.1091	MAXIMUM PERMISSIBLE EXPOSURE (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conducted Emissions	Compliant
§15.205, §15.209, §15.231(b)	Radiated Emissions	Compliant
§15.231 (c)	20dB Emission Bandwidth	Compliant
§15.231 (a) (1)	Deactivation	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2024-04-23	2025-04-22
Sunol Sciences	Hybrid Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Narda	6dB Attenuator	773-6	10690812-2-1	2024-11-08	2027-11-07
Sonoma Instrument	Amplifier	310N	171205	2024-04-23	2025-04-22
BACL	Active Loop Antenna	1313-1A	4041511	2024-11-22	2027-11-21
MICRO-COAX	Coaxial Cable	Cable-8	008	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-9	009	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-10	010	2024-04-23	2025-04-22
Rohde & Schwarz	Test Software	EMC32	100361	N/A	N/A
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2024-04-24	2025-04-23
Radiated Emission Test (Chamber 2#)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2024-04-25	2025-04-23
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2024-11-03	2027-11-02
A.H.Systems,inc	Amplifier	PAM-0118P	512	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-11	011	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-12	012	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-13	013	2024-04-25	2025-04-24
Rohde & Schwarz	Test Software	EMC32	100361	N/A	N/A
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	101746	2024-04-23	2025-04-22
Rohde & Schwarz	LISN	ENV216	101115	2024-04-23	2025-04-22
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse Limiter	ESH3-Z2	0357.8810.54	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-15	015	2024-04-23	2025-04-22

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1310 & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §2.1091 and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

Mode	Frequency Range (MHz)	Antenna Gain		Maximum peak output power*		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
802.11b	2412-2462	1.88	1.54	19.53	89.74	20	0.0275	1.0
802.11g		1.88	1.54	23.39	218.27	20	0.0669	1.0
802.11n-HT20		1.88	1.54	22.20	165.96	20	0.0508	1.0
BLE-1M	2402-2480	1.88	1.54	8.5	7.08	20	0.0022	1.0

Mode	Frequency Range (MHz)	Tune-up EIRP*		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBm)	(mW)			
SRD	433.92	-15.5	0.03	20	<0.0001	0.3

Note:

1. For the above tune up power were declared by the manufacturer.
2. The EUT contains a certified module, FCC ID: 2ANDL-CR3L (Grant on: 12/28/2020) without any modifications.
3. The SRD EIRP = 79.57 dBμV/m -95.2 = -15.63 dBm.
4. WiFi, BLE and SRD cannot be transmitted simultaneously.

Conclusion: The device meets MPE at distance 20cm.

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

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.

Antenna Connected Construction

The EUT has a spring antenna which were permanently attached, fulfill the requirement of this section. Please refer to EUT photos.

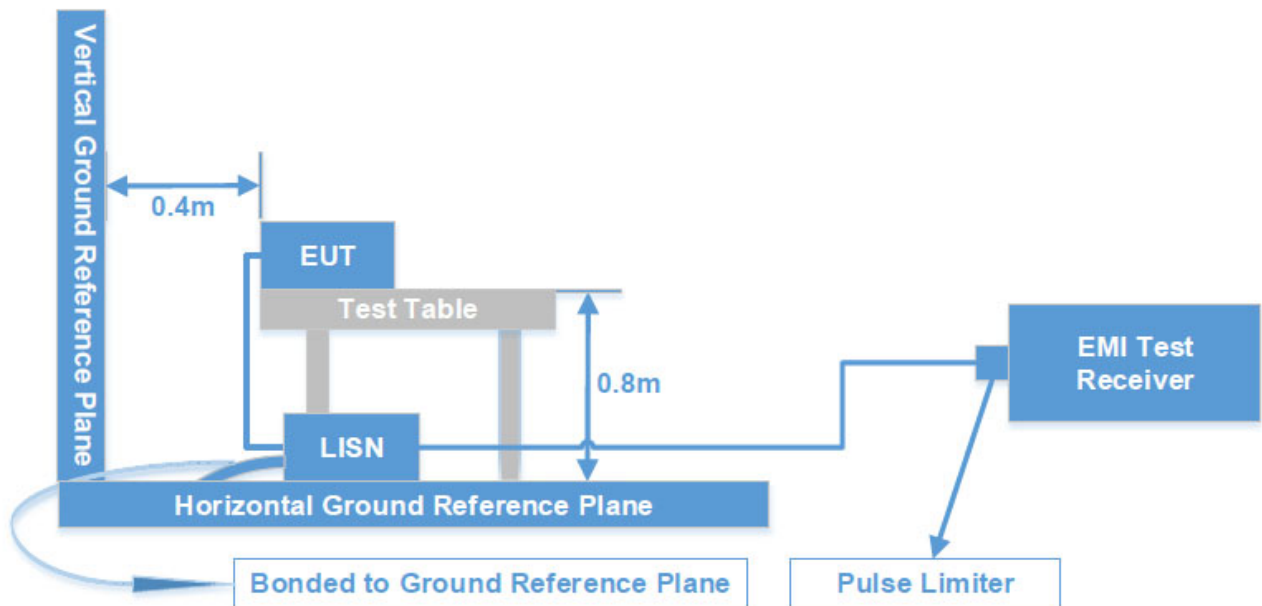
Result: Compliant.

FCC §15.207 (a) – AC POWER LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Test System Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	VBW
150 kHz - 30 MHz	9 kHz	30 kHz

Test Procedure

During the conducted emission test, the EUT was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Level & Over Limit Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

$$\begin{aligned}\text{Factor (dB)} &= \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)} \\ \text{Level (dB}\mu\text{V)} &= \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)}\end{aligned}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit of 7 dB means the emission is 7 dB above the limit. The equation for Over Limit calculation is as follows:

$$\text{Over Limit (dB)} = \text{Level (dB}\mu\text{V)} - \text{Limit (dB}\mu\text{V)}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data: See Appendix

FCC §15.205, §15.209, §15.231 (b) - RADIATED EMISSIONS**Applicable Standard**

FCC §15.205, §15.209, §15.231 (b)

According to FCC §15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emission (microvolts/meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	¹ 1250 to 3750	¹ 125 to 375
174-260	3750	375
260-470	¹ 3750 to 12500	¹ 375 to 1250
Above 470	12500	1250

¹ Linear interpolations.

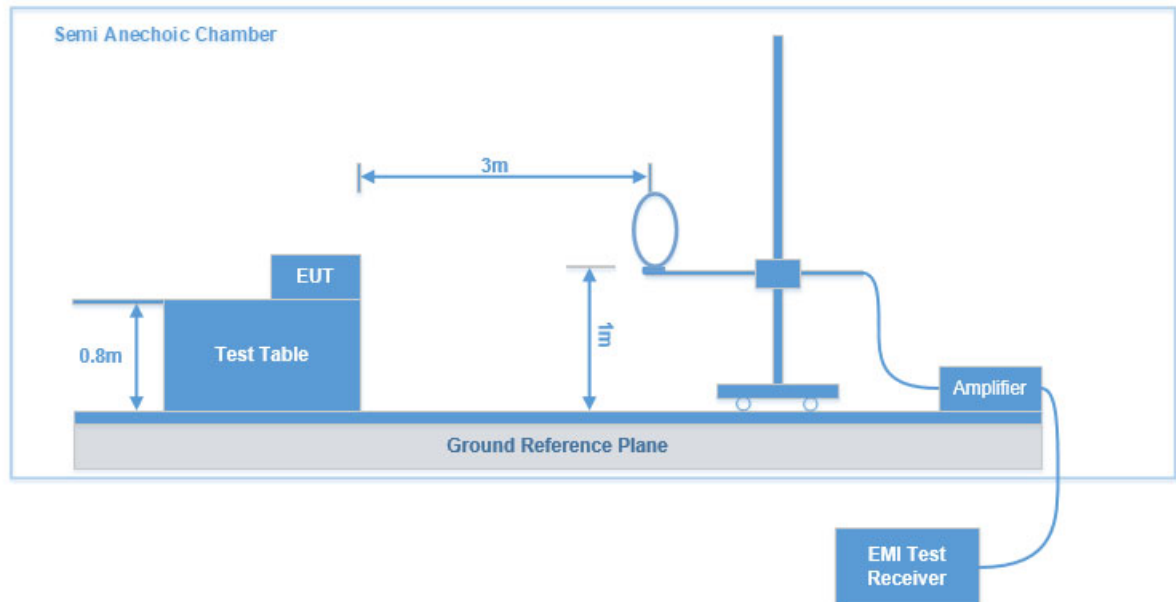
(1) The above field strength limits are specified at a distance of 3 meters. The tighter limits apply at the band edges.

(2) Intentional radiators operating under the provisions of this section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions. As an alternative, compliance with the limits in the above table may be based on the use of measurement instrumentation with a CISPR quasi-peak detector. The specific method of measurement employed shall be specified in the application for equipment authorization. If average emission measurements are employed, the provisions in §15.35 for averaging pulsed emissions and for limiting peak emissions apply. Further, compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.

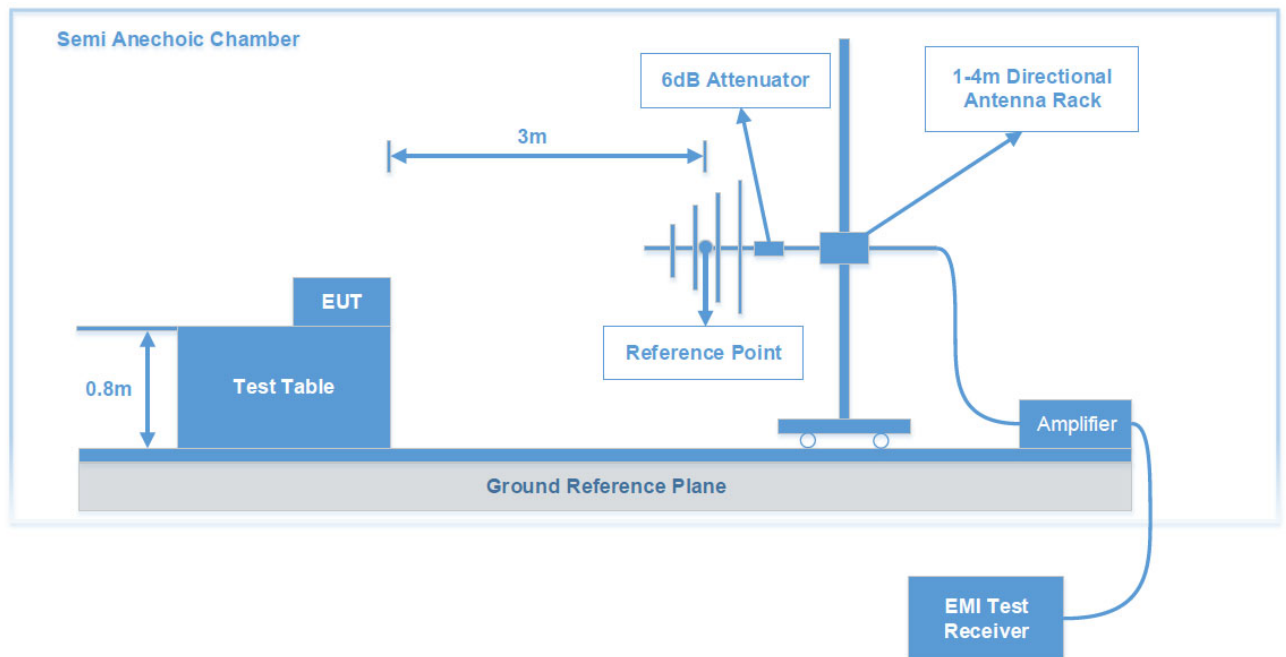
(3) The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.

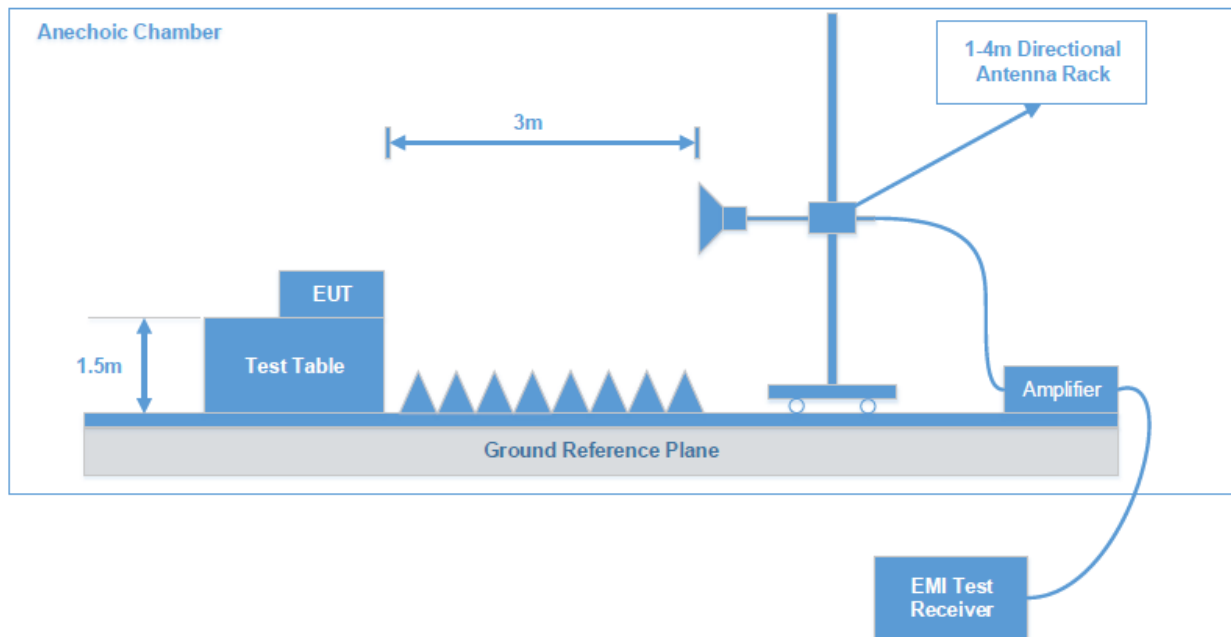
Test System Setup

9 kHz-30 MHz:



30 MHz-1 GHz:



Above 1 GHz:

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10 - 2013. The specification used was the FCC 15 § 15.209, 15.205 and 15.231.

EMI Test Receiver Setup

During the radiated emission test, the EMI test Receiver was set with the following configurations:

Frequency Range	RBW	VBW	IF B/W	Measurement
9 kHz – 150 kHz	200 Hz	1 kHz	200 Hz	QP/Average
150 kHz – 30 MHz	9 kHz	30 kHz	9 kHz	QP/ Average
30 MHz – 1000 MHz	100 kHz	300 kHz	/	Peak
	/	/	120 kHz	QP
ABOVE 1GHz	1MHz	3 MHz	/	Peak

For 9 kHz-30 MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

Test Procedure

Maximizing procedure was performed on at least six (6) highest emissions to ensure that the EUT complied with all installation combinations.

If the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

Corrected Amplitude & Margin Calculation

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 (dB μ V/m) = Meter Reading (dB μ V) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

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 (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.205, §15.209, §15.231 (b).

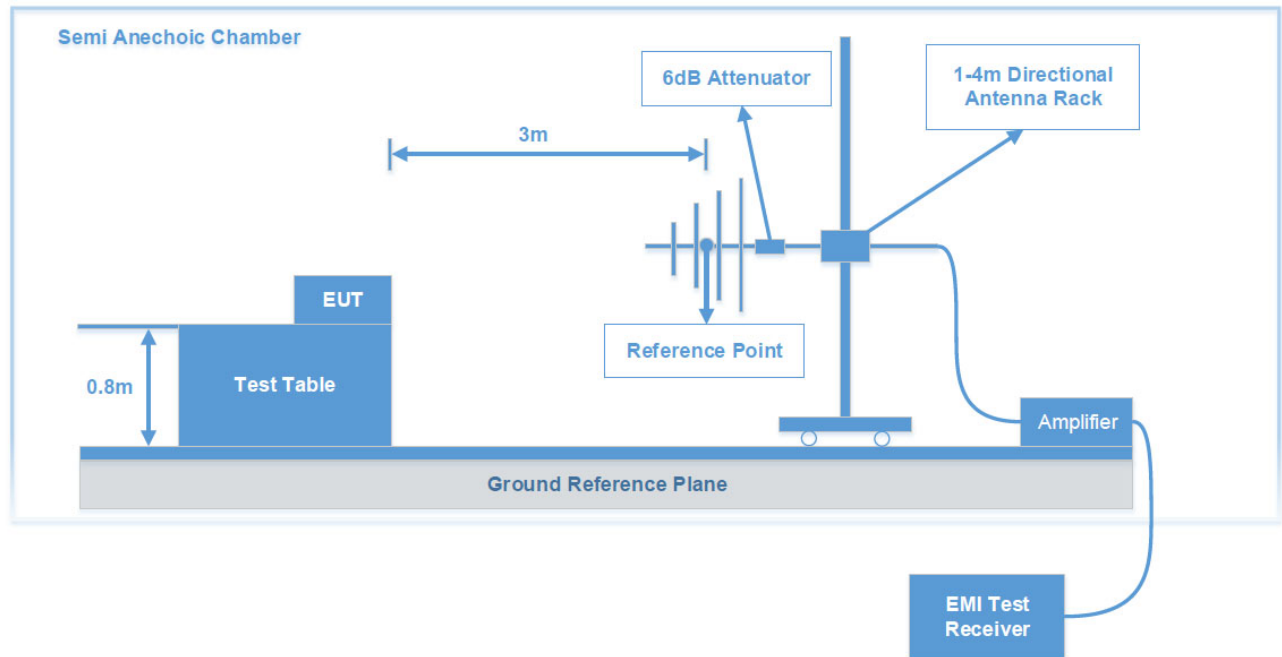
Test Data: See Appendix

FCC §15.231(a) (2) - DEACTIVATION TESTING

Applicable Standard

Per FCC §15.231(a), (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.

Test System Setup



Test Procedure

1. With the EUT's antenna attached, the waveform was received by the test antenna which was connected to the spectrum analyzer.
2. Set center frequency of spectrum analyzer=operating frequency.
3. Set the spectrum analyzer as RBW=100k VBW=300k Span=0Hz.
4. Repeat above procedures until all frequency measured was complete.

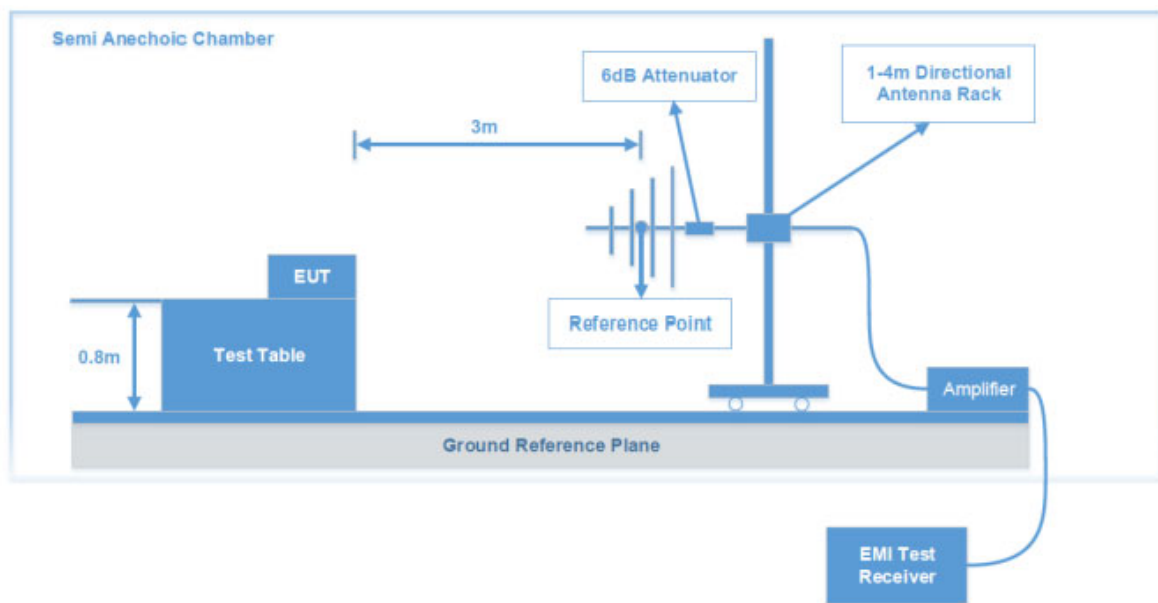
Test Data: See Appendix

FCC §15.231(c) - 20dB EMISSION BANDWIDTH TESTING

Applicable Standard

Per 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Test System Setup



Test Procedure

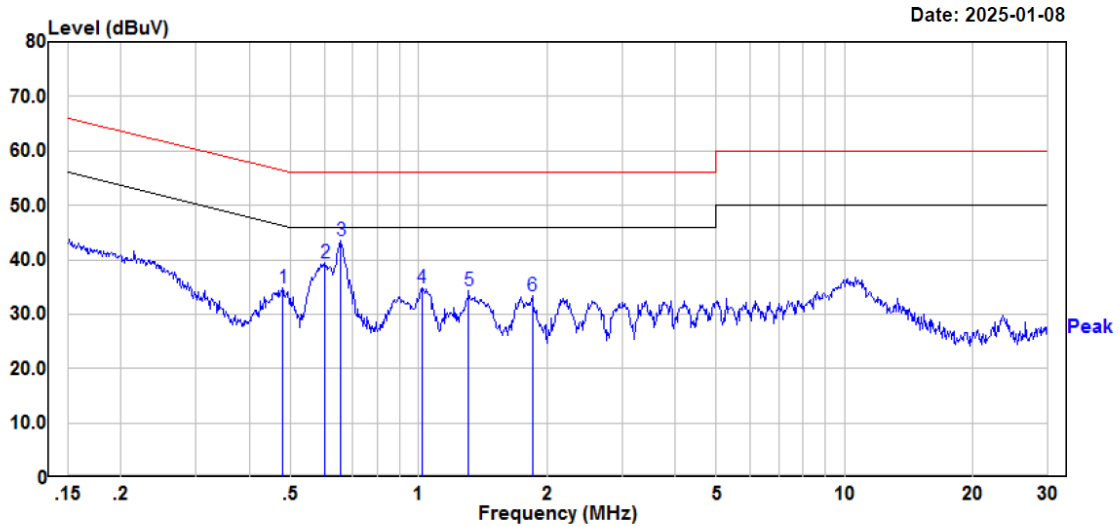
With the EUT's antenna attached, the waveform was received by the test antenna which was connected to the spectrum analyzer, plot the 20 dB bandwidth.

Test Data: See Appendix

APPENDIX - TEST DATA**Environmental Conditions & Test Information**

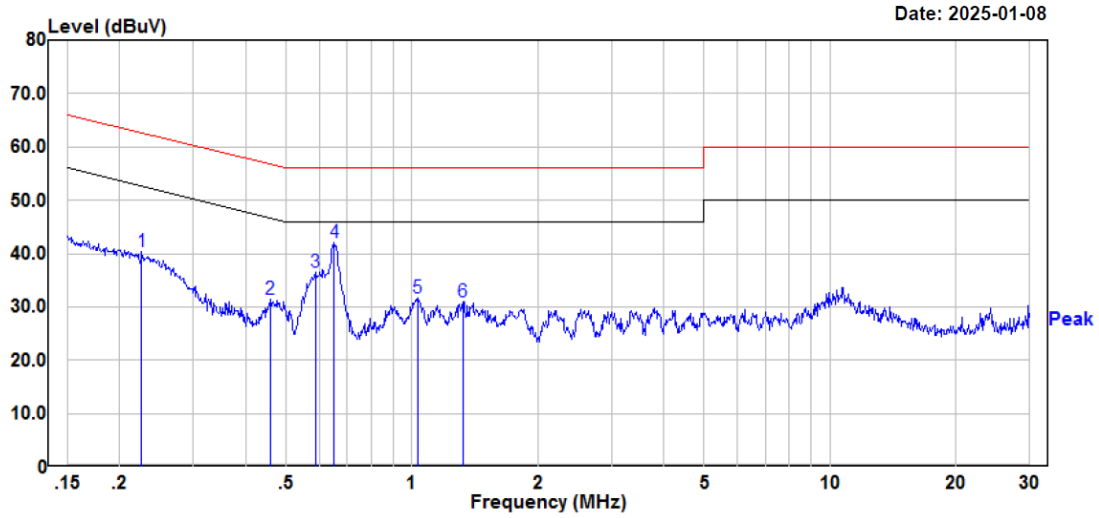
Test Item:	AC POWER LINE CONDUCTED EMISSIONS	RADIATED EMISSIONS		
		9 kHz-30 MHz	30 MHz-1 GHz	Above 1 GHz
Test Date:	2025-01-08	2025-01-06	2025-01-10	2025-01-10
Temperature:	16.3 °C	17.1 °C	15.9 °C	15.9 °C
Relative Humidity:	36 %	52 %	32 %	32 %
ATM Pressure:	102.5 kPa	102.4 kPa	103.2 kPa	103.2 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Myles Miao	Jerry Yan	Jerry Yan	Destine Wu

Test Item:	DEACTIVATION TESTING	20dB EMISSION BANDWIDTH TESTING
Test Date:	2025-01-07	2025-01-07
Temperature:	16.5 °C	16.5 °C
Relative Humidity:	51 %	51 %
ATM Pressure:	102.6 kPa	102.6 kPa
Test Result:	Pass	Pass
Test Engineer:	Neil Zhou	Neil Zhou

AC POWER LINE CONDUCTED EMISSIONS

Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RSHA240522002
Model : JCP-Y4Y6-H-0
Phase : L
Voltage : 120V/60Hz
Mode : Transmitting in maximum output power ASK mode
Test Equipment : ENV216,ESR
Receiver Setting : RBW: 9 kHz, VBW: 30 kHz, Sweep Time: Auto
Temperature : 16.3℃
Humidity : 36%
Atmospheric pressure: 102.5kPa
Test Engineer : Myles Miao

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB	dBuV	dBuV	dB
1	0.479	14.65	20.17	34.82	56.35 -21.53 Peak
2	0.603	19.34	20.09	39.43	56.00 -16.57 Peak
3	0.656	23.48	20.08	43.56	56.00 -12.44 Peak
4	1.017	15.04	19.73	34.77	56.00 -21.23 Peak
5	1.311	14.36	19.89	34.25	56.00 -21.75 Peak
6	1.850	13.35	20.11	33.46	56.00 -22.54 Peak



Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RSHA240522002
Model : JCP-Y4Y6-H-0
Phase : N
Voltage : 120V/60Hz
Mode : Transmitting in maximum output power ASK mode
Test Equipment : ENV216,ESR
Receiver Setting : RBW: 9 kHz, VBW: 30 kHz, Sweep Time: Auto
Temperature : 16.3°C
Humidity : 36%
Atmospheric pressure: 102.5kPa
Test Engineer : Myles Miao

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.226	20.18	20.12	40.30	62.61	-22.31	Peak
2	0.458	11.10	20.22	31.32	56.73	-25.41	Peak
3	0.588	16.46	20.10	36.56	56.00	-19.44	Peak
4	0.653	21.93	20.08	42.01	56.00	-13.99	Peak
5	1.032	11.93	19.74	31.67	56.00	-24.33	Peak
6	1.324	11.12	19.89	31.01	56.00	-24.99	Peak

RADIATED EMISSIONS

Test mode: Transmitting

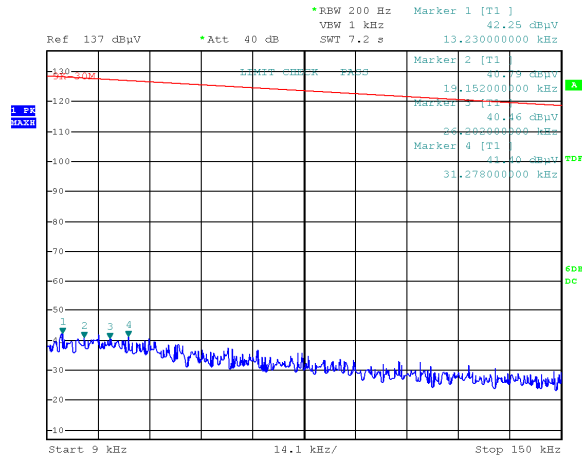
After pre-scan in the X, Y and Z axes of orientation, the worst case X axes is below:

ASK

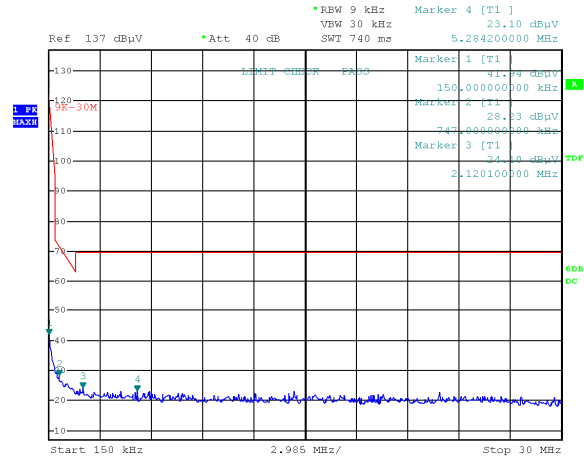
9 kHz-30 MHz:

Parallel(Transmitting in maximum output power ASK mode)

9kHz-150kHz



150kHz-30MHz



Project No.RSHA240522002
 Date: 6.JAN.2025 17:47:44

Tester:Jerry Yan

Project No.RSHA240522002
 Date: 6.JAN.2025 17:50:38

Tester:Jerry Yan

9kHz-150kHz

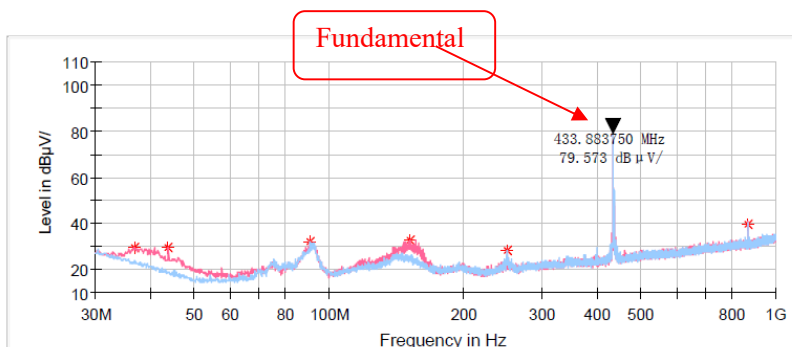
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.01323	42.25	PK	54.31	125.17	82.92
0.019152	40.79	PK	50.54	121.96	81.17
0.026202	40.46	PK	48.26	119.24	78.78
0.031278	41.4	PK	46.87	117.70	76.30

150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.15000	41.94	PK	50.90	104.08	62.14
0.74700	28.23	PK	20.11	70.14	41.91
2.12010	24.1	PK	13.90	69.54	45.44
5.28420	23.1	PK	7.99	69.54	46.44

ASK**30 MHz-1 GHz:****Common Information**

Project No:	RSHA240522002
EUT Model:	JCP-Y4Y6-H-0
Test Mode:	Transmitting
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.231
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	15.9°C
Humidity:	32%
Barometric Pressure:	103.2 kPa
Test Engineer:	Jerry Yan
Test Date:	2025/1/10

**Critical Freqs**

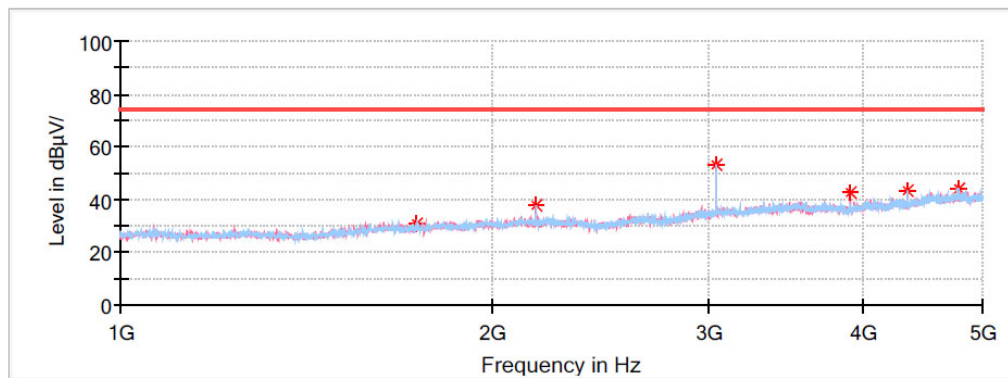
Frequency (MHz)	MaxPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Pol	Corr. (dB/m)
36.668750	29.79	40.00	10.21	V	-9.1
43.701250	29.26	40.00	10.74	V	-13.4
90.625000	31.70	43.50	11.80	H	-16.7
152.462500	32.70	43.50	10.80	V	-11.8
249.947500	28.43	46.00	17.57	H	-12.1
433.883750	79.57	80.82	1.25	H	-7.1
867.958750	39.80	46.00	6.20	V	-0.2

Note: If the spurious emissions maximized peak measured value complies with the QP/Average limit, it is unnecessary to perform QP/Average measurement.

ASK**1 GHz-5 GHz:****Common Information**

Project No.:	RSHA240522002
Test Mode:	Transmitting
Standard:	FCC Part 15.231& FCC Part 15.205& FCC Part 15.209
Test Engineer:	Destine Hu

Full Spectrum

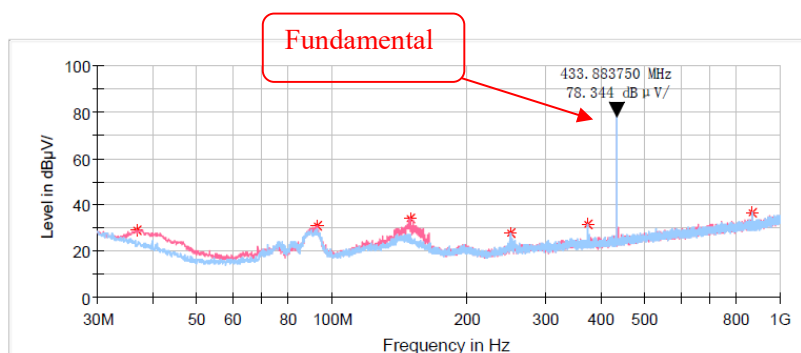
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1735.200000	30.76	---	74.00	43.24	H	-13.3
2169.600000	37.49	---	74.00	36.51	H	-11.2
3037.600000	53.20	---	74.00	20.80	H	-8.3
3905.600000	42.41	---	74.00	31.59	V	-6.0
4340.000000	43.54	---	74.00	30.46	H	-4.8
4774.400000	44.38	---	74.00	29.62	H	-3.3

Note: If the spurious emissions maximized peak measured value more than 20dB below peak limit which can complies with average limit, it is unnecessary to perform Average measurement.

FSK
30 MHz-1 GHz:**Common Information**

Project No:	RSHA240522002
EUT Model:	JCP-Y4Y6-H-0
Test Mode:	Transmitting
Standard:	FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.231
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	15.9°C
Humidity:	32%
Barometric Pressure:	103.2 kPa
Test Engineer:	Jerry Yan
Test Date:	2025/1/10

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμ V/m)	Limit (dBμ V/m)	Margin (dB)	Pol	Corr. (dB/m)
36.668750	28.92	40.00	11.08	V	-9.1
92.443750	30.91	43.50	12.59	V	-16.2
149.188750	33.72	43.50	9.78	V	-11.6
249.947500	27.44	46.00	18.56	H	-12.1
372.652500	31.46	46.00	14.54	H	-8.6
433.883750	78.34	80.82	2.48	H	-7.1
867.837500	36.75	46.00	9.25	H	-0.2

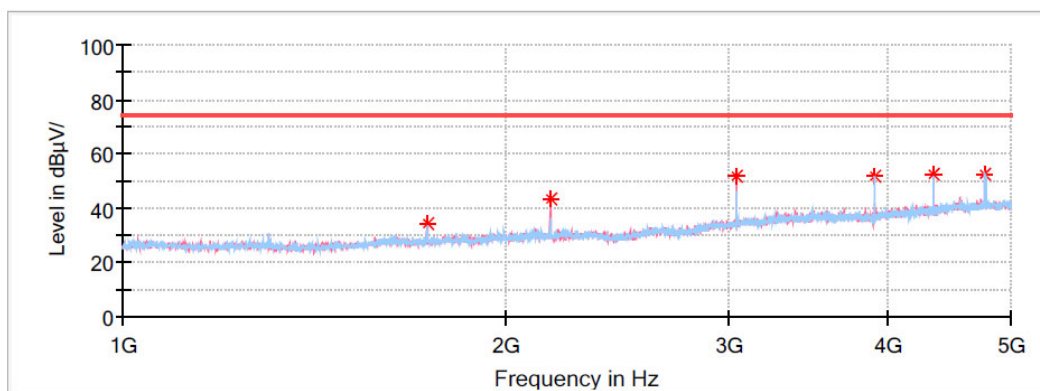
Note: If the spurious emissions maximized peak measured value complies with the QP/Average limit, it is unnecessary to perform QP/Average measurement.

FSK
1 GHz-5 GHz:

Common Information

Project No.:	RSHA240522002
Test Mode:	Transmitting
Standard:	FCC Part 15.231& FCC Part 15.205& FCC Part 15.209
Test Engineer:	Destine Hu

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1735.200000	34.21	---	74.00	39.79	V	-13.3
2169.600000	43.27	---	74.00	30.73	V	-11.2
3037.600000	51.56	---	74.00	22.44	V	-8.3
3905.600000	51.43	---	74.00	22.57	H	-6.0
4339.200000	52.35	---	74.00	21.65	V	-4.8
4773.600000	52.54	---	74.00	21.46	H	-3.3

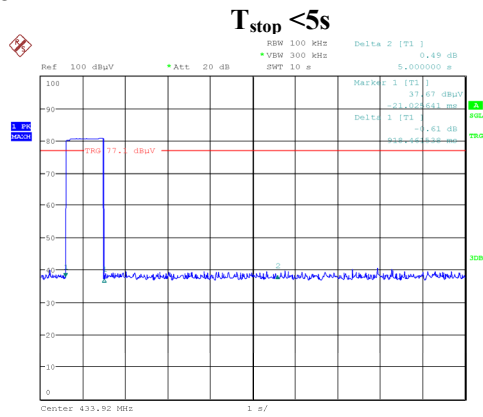
Note: If the spurious emissions maximized peak measured value more than 20dB below peak limit which can complies with average limit, it is unnecessary to perform Average measurement.

DEACTIVATION TESTING

Test mode: Transmitting

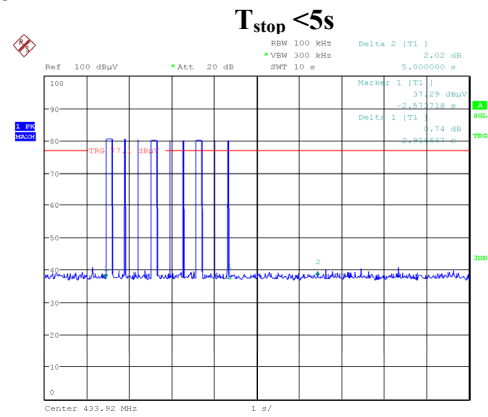
Channel Frequency (MHz)	Modulation	T _{on} (S)	Limit (s)	Result
433.92	ASK	0.918	<5	Pass
433.92	FSK	2.917	<5	Pass

ASK



ProjectNo.:RSHA240522002 Tester:Neil Zhou
Date: 7-JAN-2025 16:27:29

FSK



ProjectNo.:RSHA240522002 Tester:Neil Zhou
Date: 7-JAN-2025 15:45:11

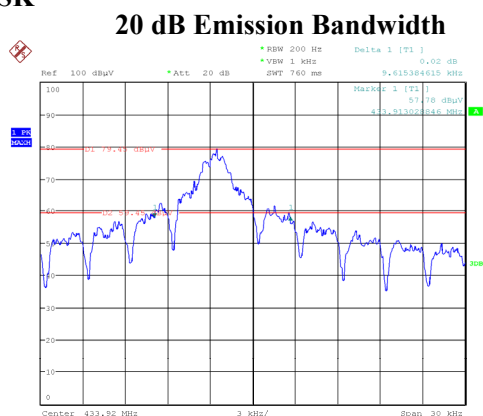
20 dB EMISSION BANDWIDTH TESTING*Test Mode: Transmitting***ASK**

Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (kHz)	Result
433.92	9.62	1084.8	Pass

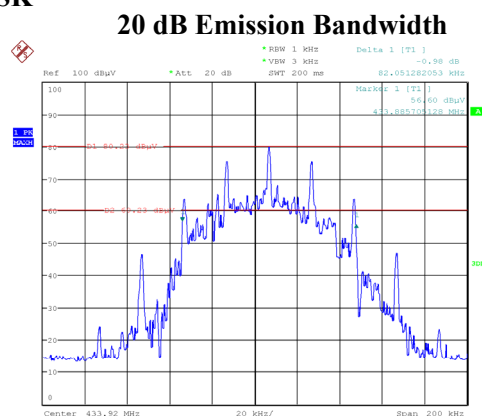
FSK

Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (kHz)	Result
433.92	82.05	1084.8	Pass

Note: Limit = 0.25% * Center Frequency = 0.25% * 433.92 MHz = 1084.8 kHz

ASK

ProjectNo.: RSHA240522002 Tester: Neil Zhou
Date: 7-JAN-2025 16:50:31

FSK

ProjectNo.: RSHA240522002 Tester: Neil Zhou
Date: 7-JAN-2025 15:27:00

EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A - EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B - EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment EXHIBIT C - TEST SETUP PHOTOGRAPHS.

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s).
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.

******* END OF REPORT *******