

TEST REPORT

Applicant Name: Shenzhen Saiku Electronic Co., Ltd.
Address: 3F, Building C14, Fuyuan Industrial City, Jiuwei Community,
Hangcheng Street, Shenzhen China
Report Number: 2501S38769E-RF-00
FCC ID: 2A8DGA-GT1

Test Standard (s)

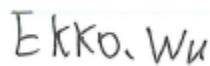
FCC PART 15.231

Sample Description

Product Type: Remote control
Model No.: GT1
Multiple Model(s) No.: N/A
Trade Mark: N/A
Date Received: 2025/04/03
Issue Date: 2025/06/20

Test Result:	Pass▲
--------------	-------

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Ekko Wu
RF Engineer

Approved By:

Jimmy Xiao
RF Supervisor

Note: The information marked* is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. 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.

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.

This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "▼".

Bay Area Compliance Laboratories Corp. (Shenzhen)

5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China
Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY	3
GENERAL INFORMATION	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	4
OBJECTIVE	4
TEST METHODOLOGY.....	4
MEASUREMENT UNCERTAINTY	5
TEST FACILITY	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
SPECIAL ACCESSORIES	6
EQUIPMENT MODIFICATIONS	6
SUPPORT EQUIPMENT LIST AND DETAILS	6
EXTERNAL I/O CABLE.....	6
BLOCK DIAGRAM OF TEST SETUP	7
SUMMARY OF TEST RESULTS	8
TEST EQUIPMENT LIST AND DETAILS	9
FCC §1.1307 (B) & §2.1093 - RF EXPOSURE	10
APPLICABLE STANDARD	10
TEST RESULT:	10
FCC §15.203 - ANTENNA REQUIREMENT.....	11
APPLICABLE STANDARD	11
ANTENNA CONNECTOR CONSTRUCTION	11
FCC §15.205, §15.209, §15.231 (B) - RADIATED EMISSIONS	12
APPLICABLE STANDARD	12
EUT SETUP	12
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	13
TEST PROCEDURE.....	14
FACTOR & OVER LIMIT/MARGIN CALCULATION	14
TEST DATA.....	14
FCC §15.231(A) (1) - DEACTIVATION TESTING	27
APPLICABLE STANDARD	27
TEST PROCEDURE.....	27
TEST DATA.....	27
FCC §15.231(C) - 20 DB EMISSION BANDWIDTH TESTING	29
APPLICABLE STANDARD	29
TEST PROCEDURE.....	29
TEST DATA.....	29
EUT PHOTOGRAPHS	31
TEST SETUP PHOTOGRAPHS	32

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501S38769E-RF-00	Original Report	2025/06/20

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Remote control
Tested Model	GT1
Multiple Model(s)	N/A
Frequency Range	433.1-434.7MHz
Maximum E-Field	80.62dBuV/m@3m
Modulation Technique	GFSK
Voltage Range	DC 3.7V from battery
Sample number	30XQ-1 (RF Conducted Test) 30XQ-2 (RF Radiated Test) (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A

Objective

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, 15.209, 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.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		109.2kHz(k=2, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz-150kHz	3.63dB(k=2, 95% level of confidence)
	150kHz-30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Emissions	9kHz - 30MHz	3.60dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.64dB(k=2, 95% level of confidence)
	Temperature	±1°C
Humidity		±1%
Supply voltages		±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing by manufacturer.

Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	433.1	6	434.1
2	433.3	7	434.3
3	433.5	8	434.5
4	433.7	9	434.7
5	433.9	/	/

Note 1: Channel 1 and 9 were chosen for the test.

Note 2: The below four buttons can transmit the same RF parameter. This button was chosen for the test.



Note 3: Press the button to transmit in the Default power level# which was declared by the applicant.

Special Accessories

No special accessories was used

Equipment Modifications

No modification was made to the EUT.

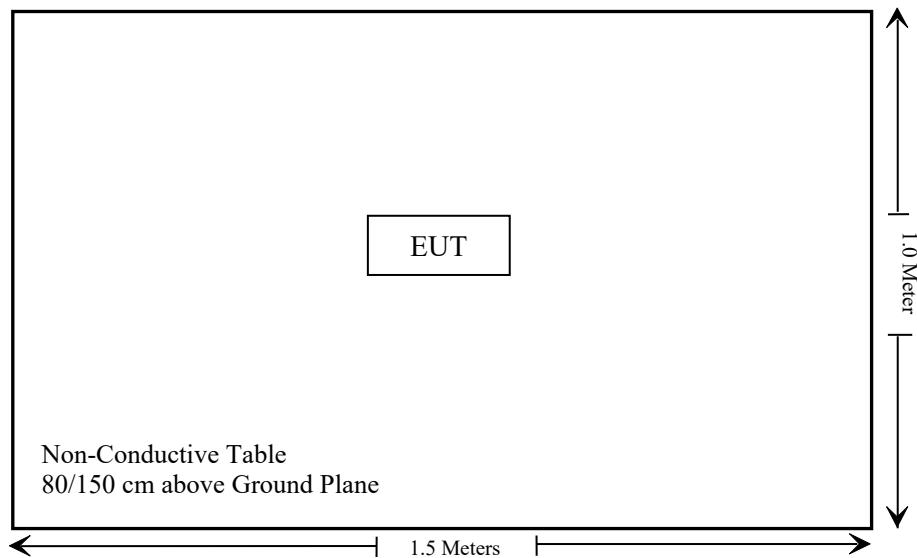
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	From Port	To
/	/	/	/

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§ 1.1307 (b) & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	Conducted Emissions	Not Applicable
§15.205, §15.209, §15.231(b)	Radiated Emissions	Compliant
§15.231 (c)	20dB Emission Bandwidth	Compliant
§15.231 (a) (1)	Deactivation	Compliant

Not Applicable: The EUT can't transmit when is charging.

TEST EQUIPMENT LIST AND DETAILS

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310 N	186238	2024/05/21	2025/05/20
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber A Cable 1	N/A	2024/06/18	2025/06/17
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Cable	2Y194	0735	2024/12/04	2025/12/03
Unknown	Cable	PNG214	1354	2024/12/04	2025/12/03
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2025/03/26	2026/03/25
A.H.System	Preamplifier	PAM-0118P	489	2024/11/15	2025/11/14
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
Unknown	RF Cable	KMSE	735	2024/12/06	2025/12/05
Unknown	RF Cable	UFA147	219661	2024/12/06	2025/12/05
Unknown	RF Cable	XH750A-N	J-10M	2024/12/06	2025/12/05
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200120	2024/12/04	2025/12/03
WEINSCHEL	3dB Attenuator	Unknown	F-03-EM220	2024/06/27	2025/06/26

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

FCC §1.1307 (b) & §2.1093 - RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.2 – 1-mW test Exemption:

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

Test Result:

For worst case:

Frequency (MHz)	Maximum E-Field (dBuV/m@3m)	Maximum EIRP		Test Exemption (mW)
		(dBm)	(mW)	
433.1-434.7	80.62	-14.58	0.03	1

Note: The Maximum EIRP= Maximum E-Field -95.2

Result: Compliant.

FCC §15.203 - ANTENNA REQUIREMENT

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connector Construction

The EUT has an integral antenna arrangement which was permanently attached. It fulfills the requirement of this section. Please refer to EUT photos.

Result: Compliant.

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:

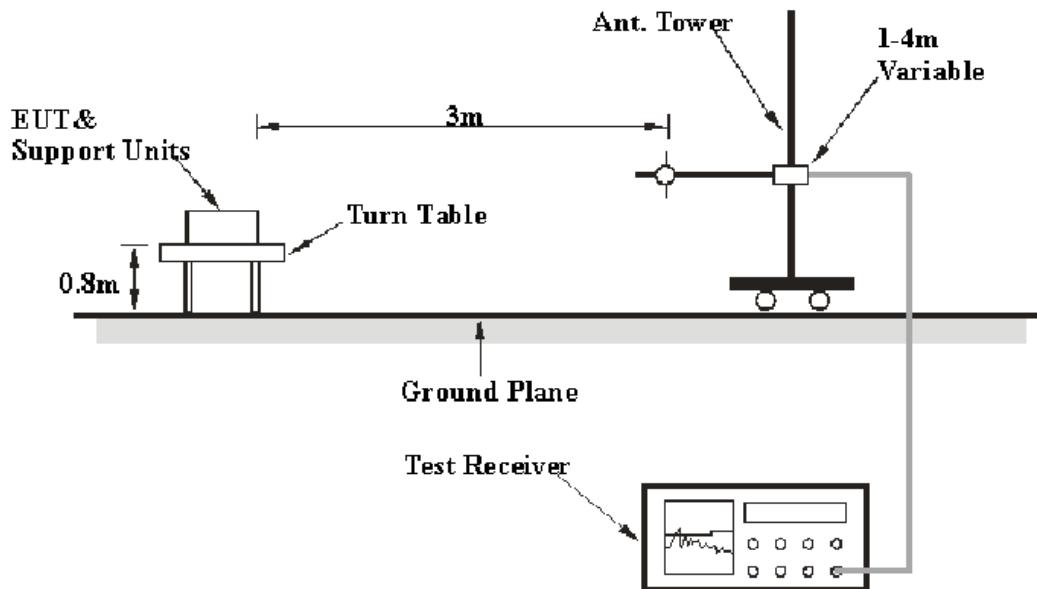
Fundamental frequency (MHz)	Field Strength of Fundamental (Microvolts /meter)	Field Strength of spurious emissions ((Microvolts /meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750**	125 to 375**
174-260	3750	375
260-470	3750 to 12500**	375 to 1250**
Above 470	12500	1250

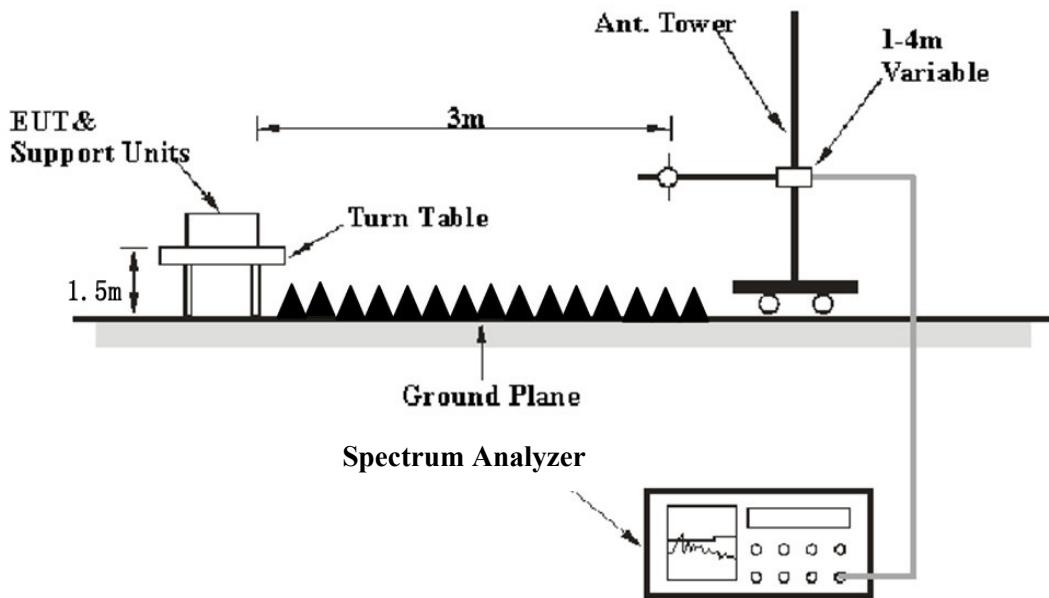
*Linear interpolations.

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

EUT Setup

Below 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 & Spectrum Analyzer Setup

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement	Detector
9 kHz – 150 kHz	/	/	200 Hz	QP	QP
	300 Hz	1 kHz	/	PK	PK
150 kHz – 30 MHz	/	/	9 kHz	QP	QP
	10 kHz	30 kHz	/	PK	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP	QP
	100 kHz	300 kHz	/	PK	PK
Above 1 GHz	Harmonics & Band Edge				
	1MHz	3 MHz	/	PK	PK
	Average Emission Level=Peak Emission Level+20*log(Duty cycle)				
	Other Emissions				
	1MHz	3 MHz	/	PK	PK
	1MHz	10 Hz	/	Average	PK

For Duty cycle measurement:

Use the duty cycle factor correction factor method per 15.35(c).

Duty cycle=On time/100milliseconds, On time=N1*L1+N2*L2+...Nn-1*Ln-1+Nn*Ln,

Where N1 is number of type 1 pulses, L1 is length of type 1 pulse, etc.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

All emissions under the average limit and under the noise floor have not recorded in the report.

Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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

$$\begin{aligned} \text{Over Limit/Margin} &= \text{Level} / \text{Corrected Amplitude} - \text{Limit} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

Test Data

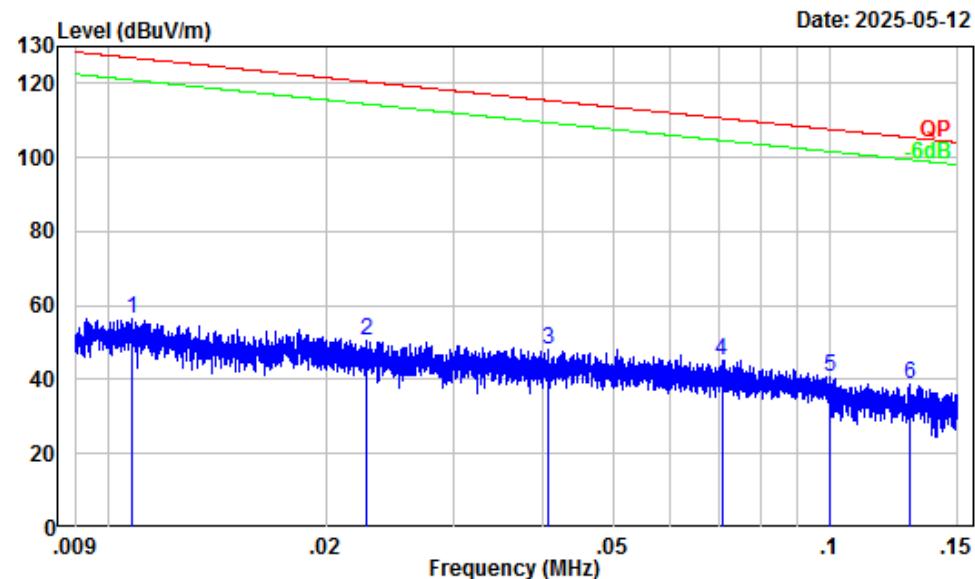
Environmental Conditions

Temperature:	21.0~25.4 °C
Relative Humidity:	48~52 %
ATM Pressure:	100.1~100.5kPa

The testing was performed by Anson Su on 2025-05-12 and Alex Yan 2025-05-20 for below 1GHz, Wing K Ji on 2025-05-06 for above 1GHz.

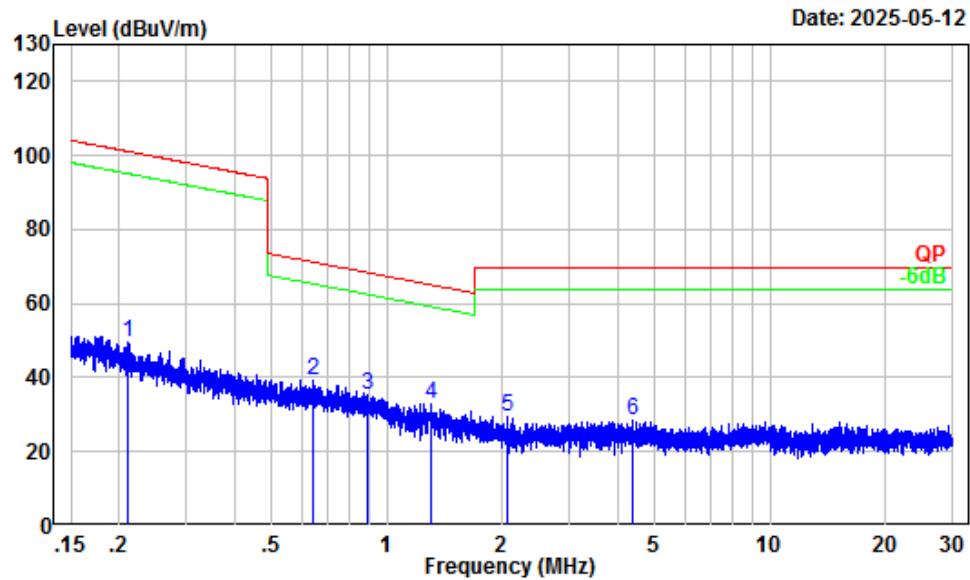
Test mode: Transmitting

Note: Pre-scan in the X, Y and Z axes of orientation, the worst case Z-axis of orientation was recorded.

Parallel (Worst case)**433.1MHz****9 kHz-30MHz:**

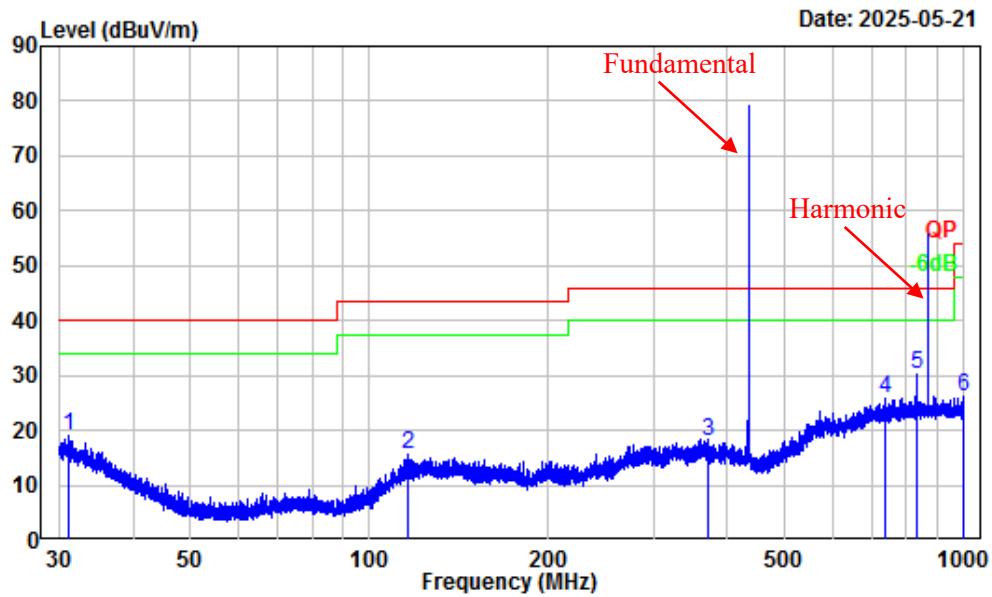
Site : Chamber A
Condition : 3m
Project Number : 2501S38769E-RF
Test Mode : 433.1 MHz Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	32.15	24.13	56.28	126.93	-70.65	Peak
2	0.023	29.86	20.44	50.30	120.43	-70.13	Peak
3	0.041	27.38	20.70	48.08	115.42	-67.34	Peak
4	0.071	24.33	20.89	45.22	110.61	-65.39	Peak
5	0.100	22.01	18.79	40.80	107.61	-66.81	Peak
6	0.129	20.29	18.39	38.68	105.39	-66.71	Peak



Site : Chamber A
Condition : 3m
Project Number : 2501S38769E-RF
Test Mode : 433.1 MHz Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

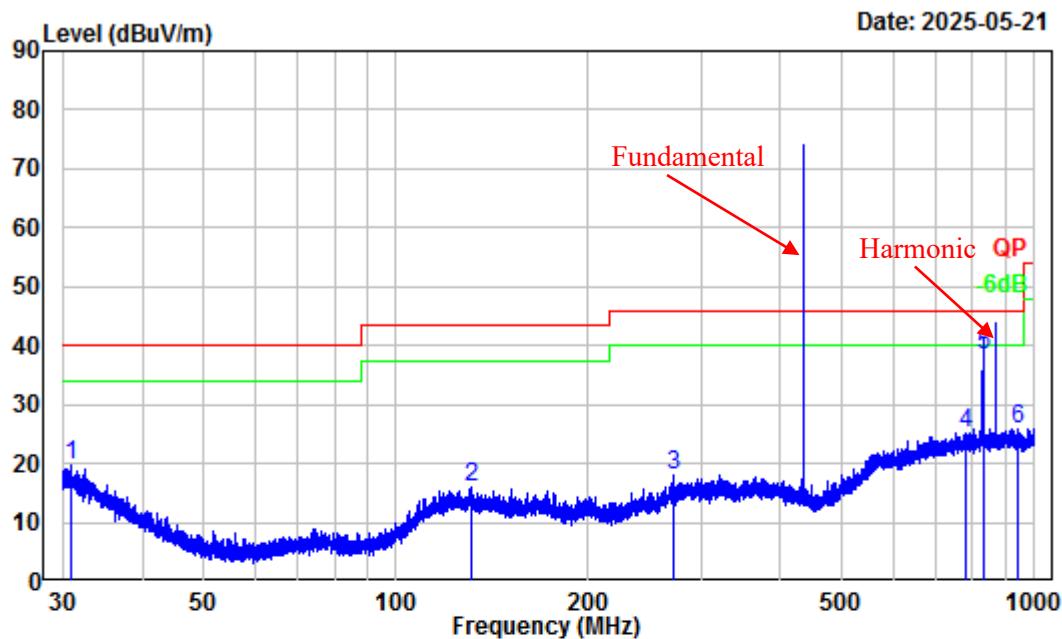
Freq	Factor	Read		Limit Line	Over Limit	Remark	
		MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	0.212	15.39	34.18	49.57	101.07	-51.50	Peak
2	0.644	4.62	34.56	39.18	71.38	-32.20	Peak
3	0.894	2.00	33.22	35.22	68.47	-33.25	Peak
4	1.308	0.34	32.48	32.82	65.09	-32.27	Peak
5	2.070	-1.64	31.06	29.42	69.54	-40.12	Peak
6	4.378	-2.74	31.22	28.48	69.54	-41.06	Peak

30MHz – 1 GHz:**Horizontal**

Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501S38769E-RF
Test Mode : 433.1MHz Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

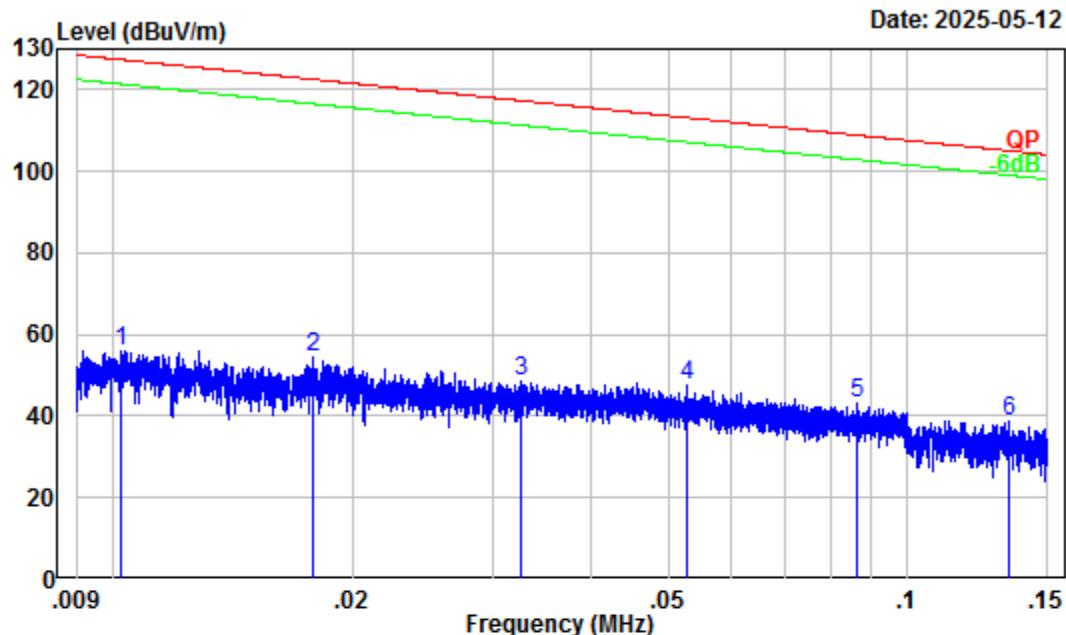
	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	31.13	-6.55	25.48	18.93	40.00	-21.07	Peak
2	115.67	-12.04	27.78	15.74	43.50	-27.76	Peak
3	371.84	-9.44	27.32	17.88	46.00	-28.12	Peak
4	734.49	-3.10	28.74	25.64	46.00	-20.36	Peak
5	833.68	-1.86	32.06	30.20	46.00	-15.80	Peak
6	999.12	-0.42	26.55	26.13	54.00	-27.87	Peak

Vertical



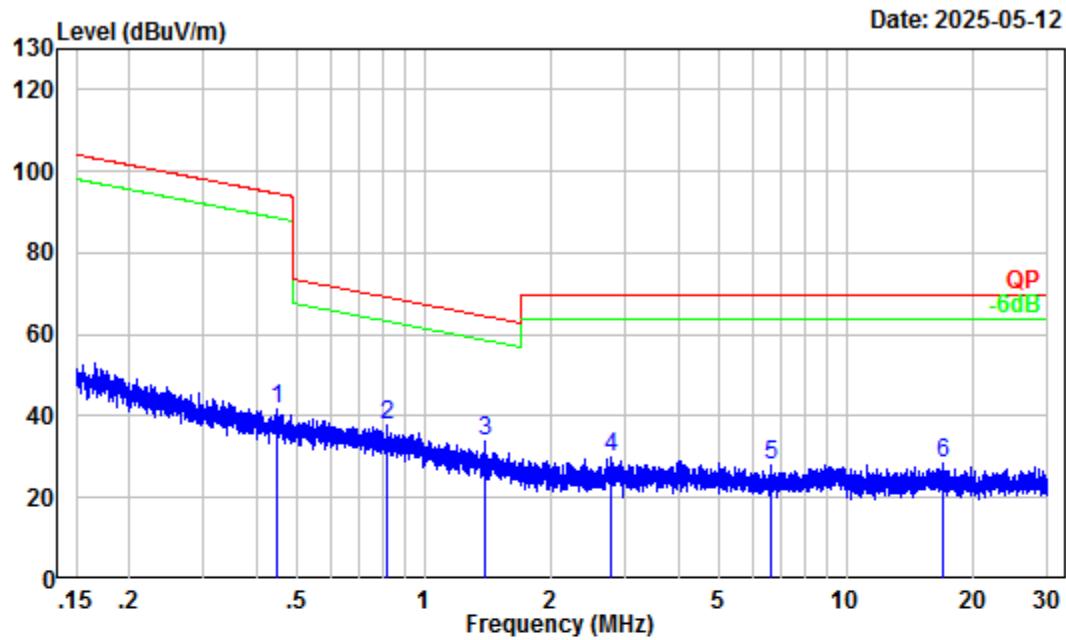
Site : Chamber A
Condition : 3m Vertical
Project Number : 2501S38769E-RF
Test Mode : 433.1MHz Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	30.935	-6.44	26.10	19.66	40.00	-20.34	Peak
2	130.837	-11.29	27.41	16.12	43.50	-27.38	Peak
3	272.397	-11.61	29.57	17.96	46.00	-28.04	Peak
4	778.241	-2.40	27.66	25.26	46.00	-20.74	Peak
5	832.952	-1.87	40.16	38.29	46.00	-7.71	QP
6	940.068	-1.05	26.98	25.93	46.00	-20.07	Peak

434.7MHz**9 kHz-30MHz:**

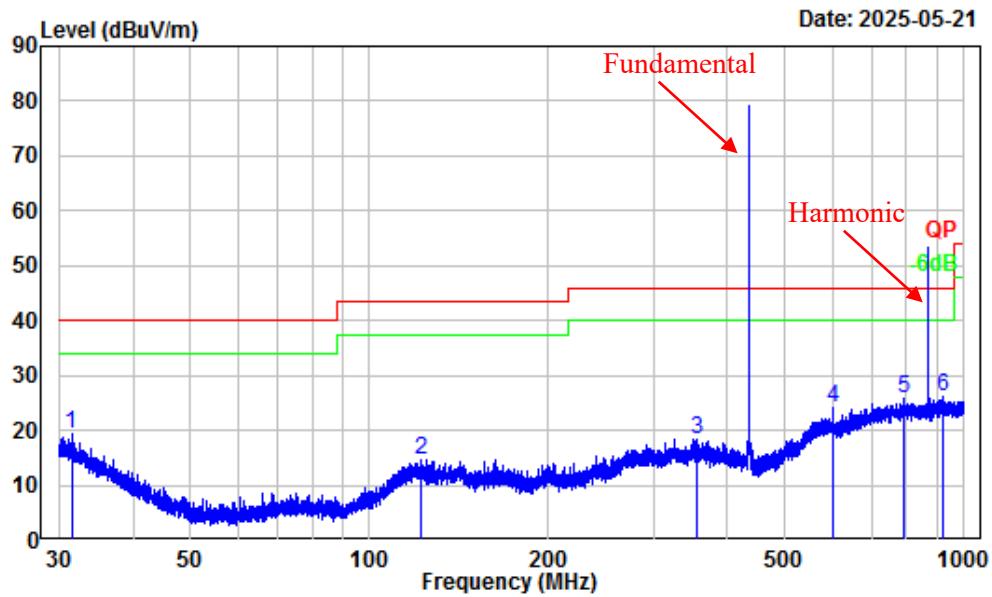
Site : Chamber A
Condition : 3m
Project Number : 2501S38769E-RF
Test Mode : 434.7 MHz Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Limit Level	Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.25	23.60	55.85	127.39	-71.54	Peak
2	0.018	30.80	23.64	54.44	122.56	-68.12	Peak
3	0.033	28.22	20.10	48.32	117.32	-69.00	Peak
4	0.053	26.13	21.49	47.62	113.17	-65.55	Peak
5	0.087	22.94	20.16	43.10	108.86	-65.76	Peak
6	0.134	19.98	18.96	38.94	105.04	-66.10	Peak



Site : Chamber A
Condition : 3m
Project Number : 2501538769E-RF
Test Mode : 434.7 MHz Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

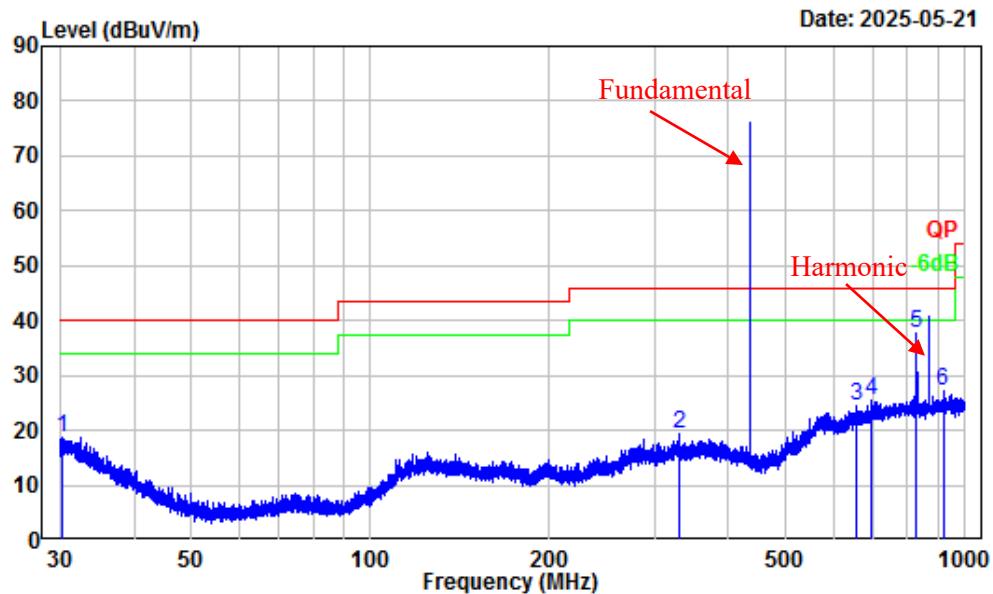
Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	Line	
1	0.448	7.39	34.16	41.55	94.58	-53.03	Peak
2	0.819	2.56	35.06	37.62	69.24	-31.62	Peak
3	1.388	0.11	33.77	33.88	64.56	-30.68	Peak
4	2.774	-2.03	31.73	29.70	69.54	-39.84	Peak
5	6.645	-2.93	31.08	28.15	69.54	-41.39	Peak
6	17.018	-2.61	30.97	28.36	69.54	-41.18	Peak

30MHz – 1 GHz:**Horizontal**

Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501S38769E-RF
Test Mode : 434.7MHz Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	31.51	-6.79	25.99	19.20	40.00	-20.80	Peak
2	122.30	-11.21	25.88	14.67	43.50	-28.83	Peak
3	354.18	-10.05	28.51	18.46	46.00	-27.54	Peak
4	600.11	-5.28	29.48	24.20	46.00	-21.80	Peak
5	793.05	-2.25	27.94	25.69	46.00	-20.31	Peak
6	919.29	-1.13	27.15	26.02	46.00	-19.98	Peak

Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2501S38769E-RF
Test Mode : 434.7MHz Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

Freq	Factor	Read		Limit		Over	
		Level	Level	Line	Line	Limit	Remark
1	30.38	-6.15	24.83	18.68	40.00	-21.32	Peak
2	330.77	-10.63	30.15	19.52	46.00	-26.48	Peak
3	657.97	-3.99	28.38	24.39	46.00	-21.61	Peak
4	696.55	-3.53	29.09	25.56	46.00	-20.44	Peak
5	826.77	-1.93	39.50	37.57	46.00	-8.43	Peak
6	918.48	-1.13	28.39	27.26	46.00	-18.74	Peak

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Comment
	Reading (dB μ V)	Detector (PK/QP/AV)						
433.1MHz								
433.1	88.38	PK	H	-7.76	80.62	100.8	-20.18	Fundamental
433.1	83.18	PK	V	-7.76	75.42	100.8	-25.38	Fundamental
866.2	57.35	PK	H	-1.62	55.73	80.8	-25.07	Harmonic
866.2	45.36	PK	V	-1.62	43.74	80.8	-37.06	Harmonic
434.7MHz								
434.7	87.21	PK	H	-7.76	79.45	100.85	-21.4	Fundamental
434.7	85.07	PK	V	-7.76	77.31	100.85	-23.54	Fundamental
869.4	54.88	PK	H	-1.62	53.26	80.85	-27.59	Harmonic
869.4	42.42	PK	V	-1.62	40.80	80.85	-40.05	Harmonic

Note:

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude/Level = Factor + Reading

Margin = Corrected Amplitude/Level - Limit

The other spurious emission which is in the noise floor level was not recorded.

The test result of peak was less than 20dB below the limit, so just peak values were recorded.

Frequency (MHz)	Receiver		Polar (H / V)	Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector (PK/QP/AV)					
433.1MHz							
1299.30	67.76	PK	H	-14.44	53.32	80.8	-27.48
1299.30	63.22	PK	V	-14.44	48.78	80.8	-32.02
1732.40	74.28	PK	H	-13.97	60.31	80.8	-20.49
1732.40	72.37	PK	V	-13.97	58.40	80.8	-22.40
2165.50	70.65	PK	H	-11.36	59.29	80.8	-21.51
2165.50	68.15	PK	V	-11.36	56.79	80.8	-24.01
2598.60	71.19	PK	H	-10.75	60.44	80.8	-20.36
2598.60	65.74	PK	V	-10.75	54.99	80.8	-25.81
3031.70	58.65	PK	H	-10.09	48.56	80.8	-32.24
3031.70	56.79	PK	V	-10.09	46.70	80.8	-34.10
434.7MHz							
1304.10	66.82	PK	H	-14.43	52.39	74.00	-21.61
1304.10	62.02	PK	V	-14.43	47.59	74.00	-26.41
1738.80	70.89	PK	H	-13.99	56.9	80.85	-23.95
1738.80	70.44	PK	V	-13.99	56.45	80.85	-24.4
2173.50	70.52	PK	H	-11.22	59.30	80.85	-21.55
2173.50	65.12	PK	V	-11.22	53.90	80.85	-26.95
2608.20	69.96	PK	H	-10.81	59.15	80.85	-21.7
2608.20	65.79	PK	V	-10.81	54.98	80.85	-25.87
3042.90	58.39	PK	H	-10.07	48.32	80.85	-32.53
3042.90	55.91	PK	V	-10.07	45.84	80.85	-35.01

Note:

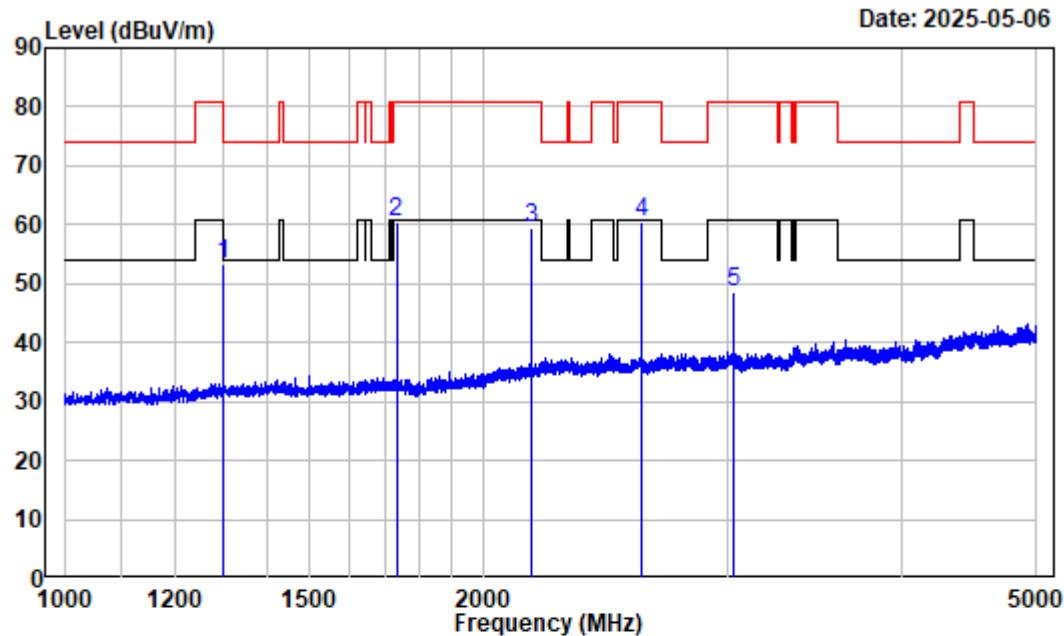
Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude/Level = Factor + Reading

Margin = Corrected Amplitude/Level - Limit

The other spurious emission which is in the noise floor level was not recorded.

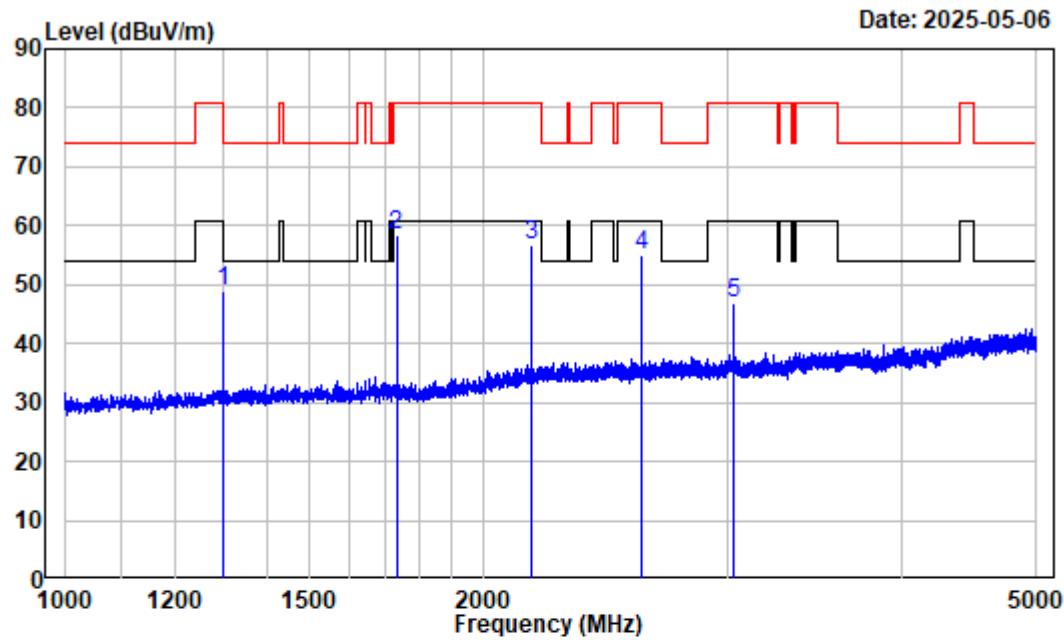
The test result of peak was less than 20dB below the limit, so just peak values were recorded.

1 GHz - 5 GHz: (Listed with the worst harmonic margin test plot)**Horizontal**

Condition : Horizontal
Project No. : 2501S38769E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 433.1MHz

Freq	Factor	Read		Limit	Over	Remark	
		Level	Level				
		MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	1299.300	-14.44	67.76	53.32	80.80	-27.48	Peak
2	1732.400	-13.97	74.28	60.31	80.80	-20.49	Peak
3	2165.500	-11.36	70.65	59.29	80.80	-21.51	Peak
4	2598.600	-10.75	71.19	60.44	80.80	-20.36	Peak
5	3031.700	-10.09	58.65	48.56	80.80	-32.24	Peak

Vertical



Condition : Vertical
Project No. : 2501S38769E-RF
Tester : Wing K Ji
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 433.1MHz

Freq	Factor	Read	Limit	Over	Remark	
		Level	Level	Line		
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1299.300	-14.44	63.22	48.78	80.80 -32.02	Peak
2	1732.400	-13.97	72.37	58.40	80.80 -22.40	Peak
3	2165.500	-11.36	68.15	56.79	80.80 -24.01	Peak
4	2598.600	-10.75	65.74	54.99	80.80 -25.81	Peak
5	3031.700	-10.09	56.79	46.70	80.80 -34.10	Peak

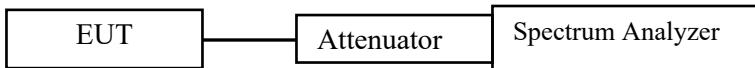
FCC §15.231(a) (1) - DEACTIVATION TESTING

Applicable Standard

Per FCC §15.231(a) (1), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

Test Procedure

1. The EUT is setting to the transmit mode, 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=1MHz/ VBW=3MHz/ Span=0Hz.
4. Repeat above procedures until all frequency measured was complete.



Test Data

Environmental Conditions

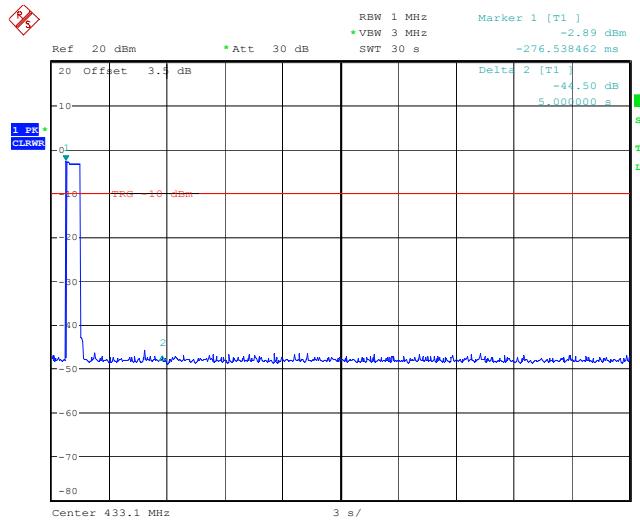
Temperature:	24.5°C
Relative Humidity:	49%
ATM Pressure:	101.1 kPa

The testing was performed by Cheeb Huang on 2025-04-24.

Test mode: Transmitting

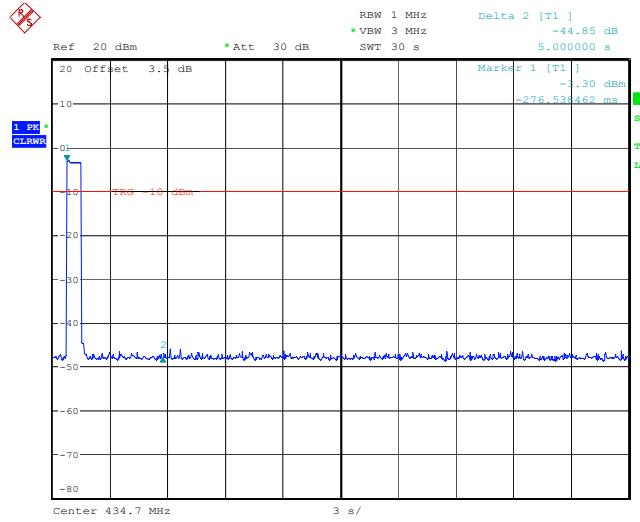
Test Result: Compliant. This product will cease transmission within 5 seconds after activation.
Please refer to following plots.

433.1MHz



ProjectNo.:2501S38769E-RF Tester:Cheeb Huang
Date: 24.APR.2025 10:00:55

434.7MHz



ProjectNo.:2501S38769E-RF Tester:Cheeb Huang
Date: 24.APR.2025 09:57:49

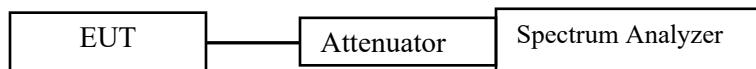
FCC §15.231(c) - 20 dB EMISSION BANDWIDTH TESTING

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 Procedure

The EUT is setting to the transmit mode and connects to the spectrum analyzer, then test the 20dB bandwidth.



Test Data

Environmental Conditions

Temperature:	24.5°C
Relative Humidity:	49 %
ATM Pressure:	101.1 kPa

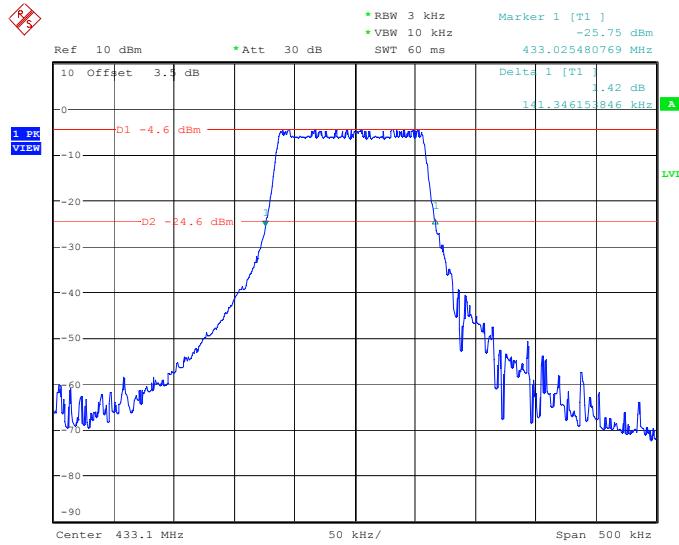
The testing was performed by Cheeb on 2025-04-24.

Test Mode: Transmitting

Please refer to following table and plots.

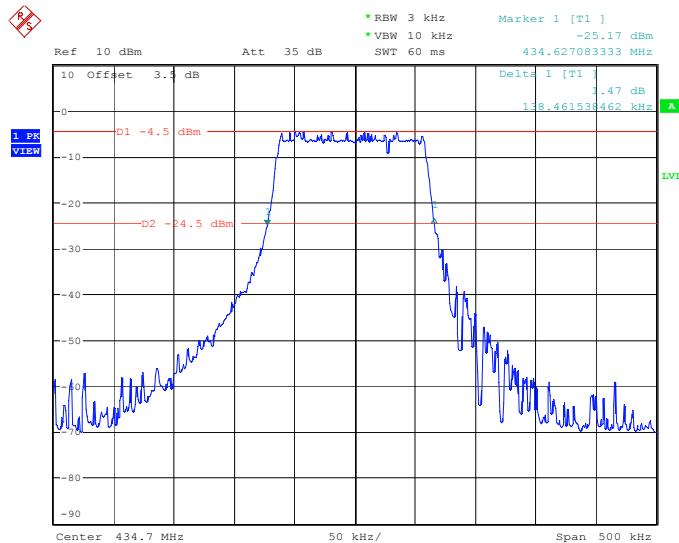
Test Channel	Test Frequency (MHz)	20 dB Bandwidth (MHz)	Limit (MHz)
Lowest	433.1	0.141	1.083
Highest	434.7	0.138	1.087

433.1MHz



ProjectNo.:2501S38769E-RF Tester:Cheeb Huang
Date: 24.APR.2025 10:07:15

434.7MHz



ProjectNo.:2501S38769E-RF Tester:Cheeb Huang
Date: 24.APR.2025 09:47:32

EUT PHOTOGRAPHS

Please refer to the attachment 2501S38769E-RF External photo and 2501S38769E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501S38769E-RF Test Setup photo.

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