



FCC PART 15.249 TEST REPORT

On Behalf of

Fujian Youtong Electronics Co.,Ltd.

North part of 1st, 2nd-3rd floor, Building 1#, No.18, Majiang Road, Mawei,
Fuzhou Fujian, China

**FCC ID: 2BORN-R71
Model: R71**

July 18, 2025.

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: Wireless Transmitter
Test Engineer: Fan Yang / <i>Fan Yang</i>	
Report Number: <u>QCT25GR-1713E-01</u>	
Test Date: July 7~17, 2025	
Test Result: Pass	
Reviewed By: Vincent Yang / <i>Vincent Yang</i>	
Approved By: Kency Wang / <i>Kency Wang</i>	
Prepared By: Shenzhen QC Testing Laboratory Co., Ltd. East of 1/F., Building E, Xinghong Science Park, No.111, Shuiku Road, Fenghuanggang, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel: 0755-23008269 Fax: 0755-23726780	





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Revision History of This Test Report



1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Description	Wireless Transmitter
Model No.	R71
Tested Model	R71
Sample(s) Status	Engineer sample
Operation Frequency:	915MHz
Channel numbers:	1
Modulation type:	FSK
Antenna Type:	Spring Antenna
Antenna gain ^{*1} :	0dBi
Power supply:	DC 3.6V
Trade Mark:	VEVOR
Applicant	Fujian Youtong Electronics Co.,Ltd.
Address	North part of 1st, 2nd-3rd floor, Building1#, No.18, Majiang Road, Mawei, Fuzhou Fujian, China
Manufacturer	Fujian Youtong Electronics Co.,Ltd.
Address	North part of 1st, 2nd-3rd floor, Building1#, No.18, Majiang Road, Mawei, Fuzhou Fujian, China
Sample No.	Y25G1713E01YN

Note: *1This information provided by Manufacturer, SZ QC Lab is not responsible for the accuracy of this information.

1.2 System Test Configuration

1.2.1 Support Equipment

N/A

1.2.2 Test mode and voltage

Transmitting mode: The manufacturer provides the engineering sample to set the continuously transmitting mode, and the power level is the default.

Test voltage: DC 3.6V

RF power setting	Default power
Test software	The point TX is short-circuited to set the continuously transmitting mode



1.3 Test Facility

Test Firm : Shenzhen QC Testing Laboratory Co., Ltd.

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS – Registration No.: L8464

The EMC Laboratory has been accredited by CNAS, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

A2LA Certificate Number: 6759.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 561109

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 29628

CAB identifier: CN0141

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

1.4 Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 1.42 \times 10^{-4}\%$
RF output power, conducted	$\pm 1.06\text{dB}$
Power Spectral Density, conducted	$\pm 1.06\text{dB}$
Unwanted Emissions, conducted	$\pm 2.51\text{dB}$
AC Power Line Conducted Emission	$\pm 1.80\text{dB}$
Radiated Spurious Emission test (9kHz-30MHz)	$\pm 2.66\text{dB}$
Radiated Spurious Emission test (30MHz-1000MHz)	$\pm 4.04\text{dB}$
Radiated Spurious Emission test (1000MHz-18000MHz)	$\pm 4.70 \text{ dB}$
Radiated Spurious Emission test (18GHz-40GHz)	$\pm 4.80\text{dB}$
Temperature	$\pm 0.8^\circ\text{C}$
Humidity	$\pm 3.2\%$
DC and low frequency voltages	$\pm 0.1\%$
Time	$\pm 5\%$
Duty cycle	$\pm 5\%$

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2



2. Summary of Test Results

Test Item	Section	Result
Antenna Requirement	15.203	Pass
Conduction Emission	15.207	Not Applicable
Radiated Emissions	15.205, 15.209, 15.249	Pass
20dB Bandwidth	15.215 (c)	Pass

Note: 1. In the configuration tested, the EUT complied with the standards specified above.
2. Test according to ANSI C63.10:2013
3. All indications of Pass/Fail in this report are opinions expressed by Shenzhen QC Testing Laboratory Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.
4. The EUT is powered by the battery, and Conduction Emission is not applicable.



3. List of Test and Measurement Instruments

3.1 Radiated Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1.	EMI Test Receiver	Rohde&Schwarz	ESIB 7	2277573376	2025.03.17	2026.03.16
2.	EMI Test Receiver	Rohde&Schwarz	ESPI3	101131	2025.03.17	2026.03.16
3.	Spectrum Analyzer	Rohde&Schwarz	FSV 40	101458	2025.03.18	2026.03.17
4.	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9168	VULB9168-588	2025.03.22	2026.03.21
5.	Loop Antenna	EMCO	6502	2133	2025.03.19	2026.03.18
6.	horn antenna	SCHWARZBECK	BBHA9120D	2069	2024.08.10	2025.08.09
7.	Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2024.08.10	2026.08.09
8.	Pre-amplifier	MITEQ	TTA0001-18	2063645	2025.03.17	2026.03.16
9.	Pre-amplifier	MITEQ	TTA1800-30-HG	2063644	2025.03.17	2026.03.16
10.	Pre-amplifier	COM-MW	DLAN-18000-40000-02	10229104	2025.03.22	2026.03.21
11.	966 Camber	ZhongYU	9*6*6	/	2023.05.08	2026.05.07

Radiated Emission Measurement Software: EZ_EMC Ver QCT03A2 RE+

3.2 RF Conducted test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1.	Spectrum Analyzer	ROHDE&SCHWARZ	FSV 40	101458	2025.03.18	2026.03.17
2.	Signal Generator	Agilent	N5182A	MY50141563	2025.03.18	2026.03.17
3.	RF Automatic Test System	MW	MW100-RFCB/MW100-PSB	MW2007004	2025.03.18	2026.03.17

RF Conducted Measurement Software: MTS 8310 Ver 2.0.0.0



4. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203

15.203 requirement:

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, 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.

EUT Antenna: The antenna is Spring Antenna, reference to the Internal Photos for details.

5. Radiated Emission Method

5.1. Applicable Standard

FCC Part15 C Section 15.249

5.2. Limit

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

As per FCC Section 15.249

(c) Field strength limits are specified at a distance of 3 meters.

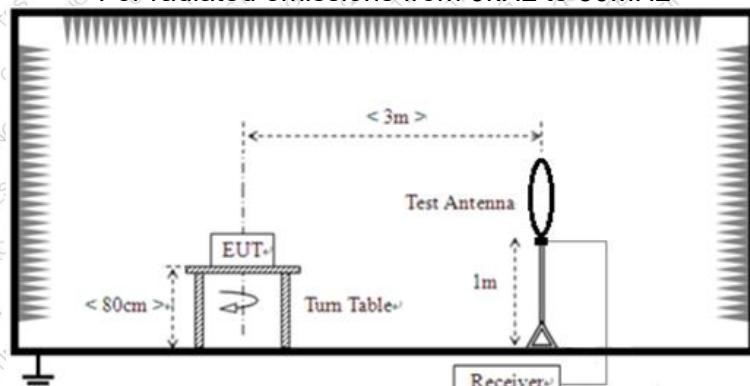
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

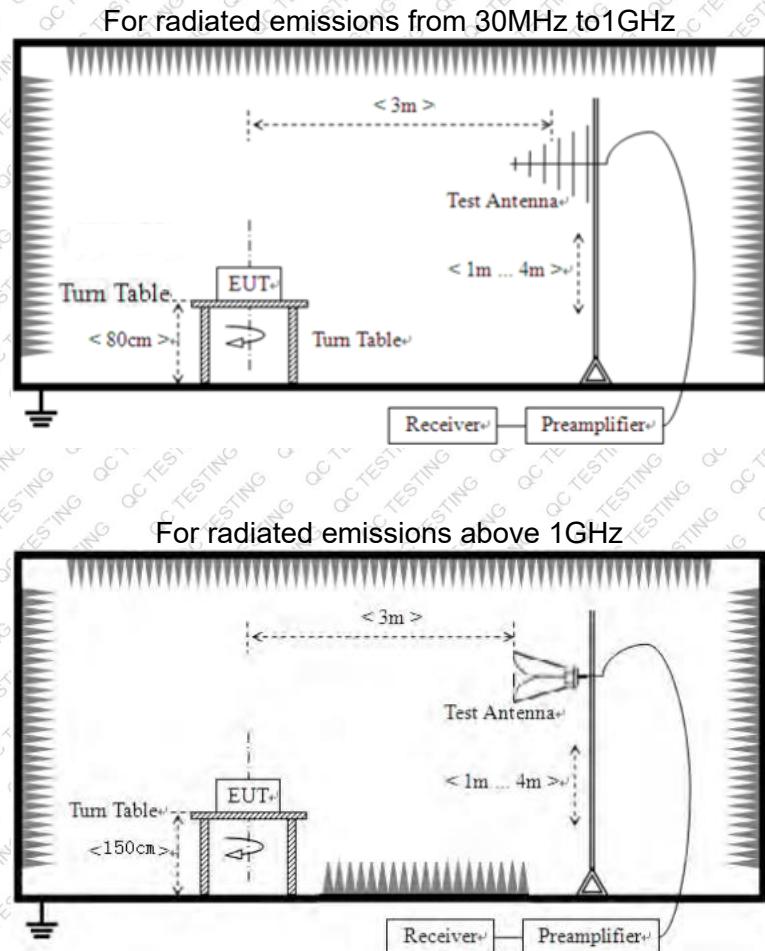
5.3. Receiver setup

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

5.4. Test setup

For radiated emissions from 9kHz to 30MHz





5.5. Test Procedure

1. The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



5.6. Test Data

Temperature	25-26°C	Humidity	49-54%
ATM Pressure	101.1kPa	Antenna Gain	0dBi
Test by	Fan Yang	Test result	PASS

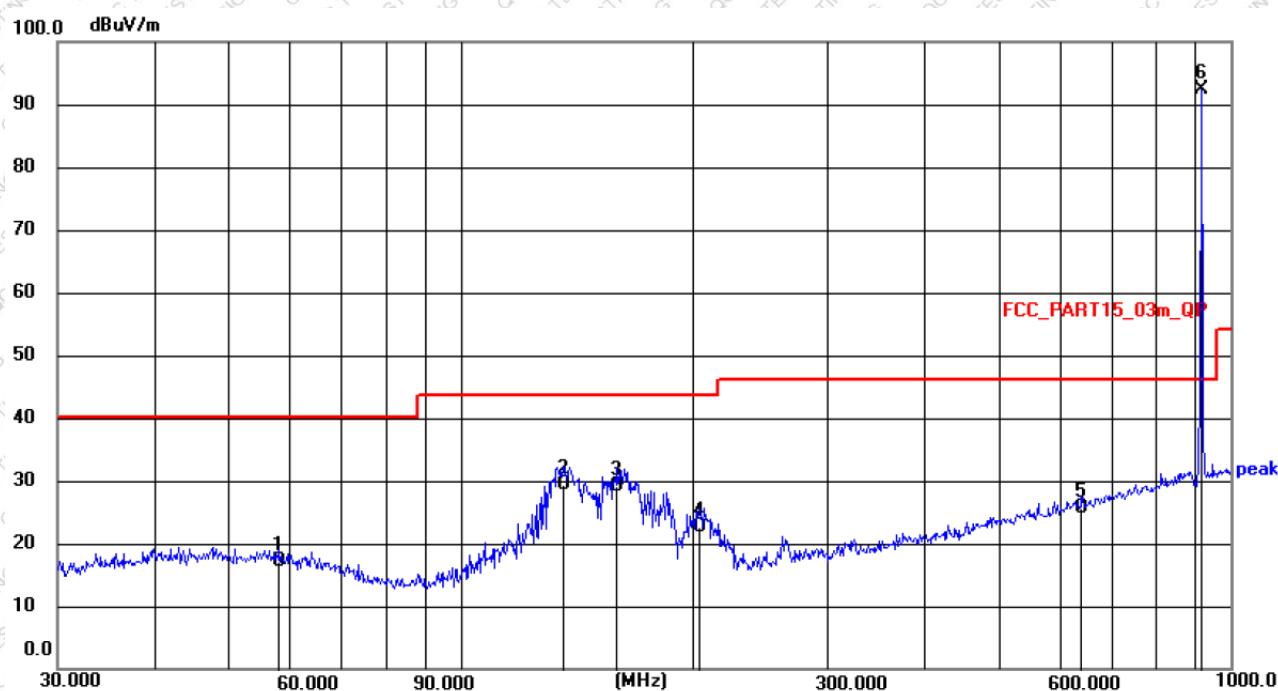
Remarks:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
2. Data of measurement within frequency range 9kHz-30MHz, 10-26GHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report.



Below 1GHz:

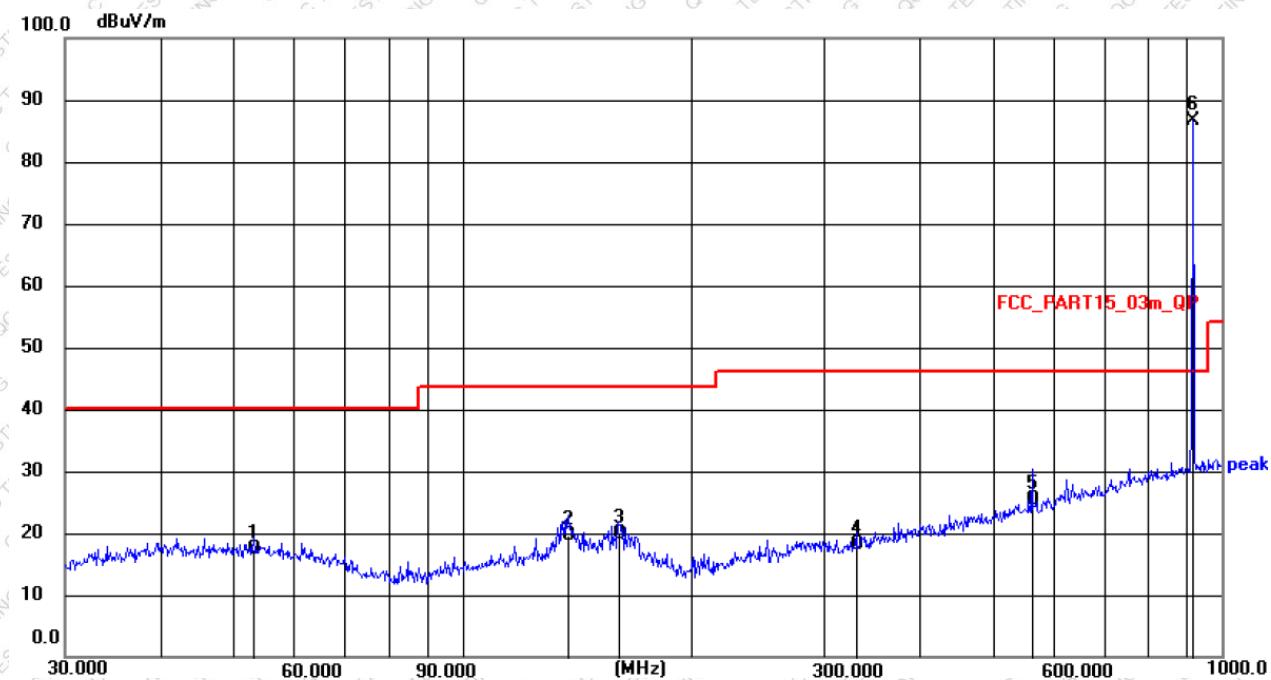
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	58.2028	3.10	14.02	17.12	40.00	22.88	QP
2	135.9821	15.07	14.23	29.30	43.50	14.20	QP
3	159.7844	14.47	14.72	29.19	43.50	14.31	QP
4	204.2375	11.09	11.54	22.63	43.50	20.87	QP
5	640.6109	3.69	21.94	25.63	46.00	20.37	QP
6 *	915.0000	65.81	26.60	92.41	/	/	peak



Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	53.1313	3.23	14.18	17.41	40.00	22.59	QP
2	137.9028	5.37	14.18	19.55	43.50	23.95	QP
3	160.3456	5.52	14.38	19.90	43.50	23.60	QP
4	330.1949	2.83	15.27	18.10	46.00	27.90	QP
5	562.6624	4.63	20.66	25.29	46.00	20.71	QP
6 *	915.0000	60.48	26.27	86.75	/	/	peak



Frequency (MHz)	Read Level (dB μ V)	polarization	Factor (dB/m)	Peak value (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)
915	65.81	H	26.6	92.41	93.98	1.57
915	60.48	V	26.27	86.75	93.98	7.23

Above 1G:

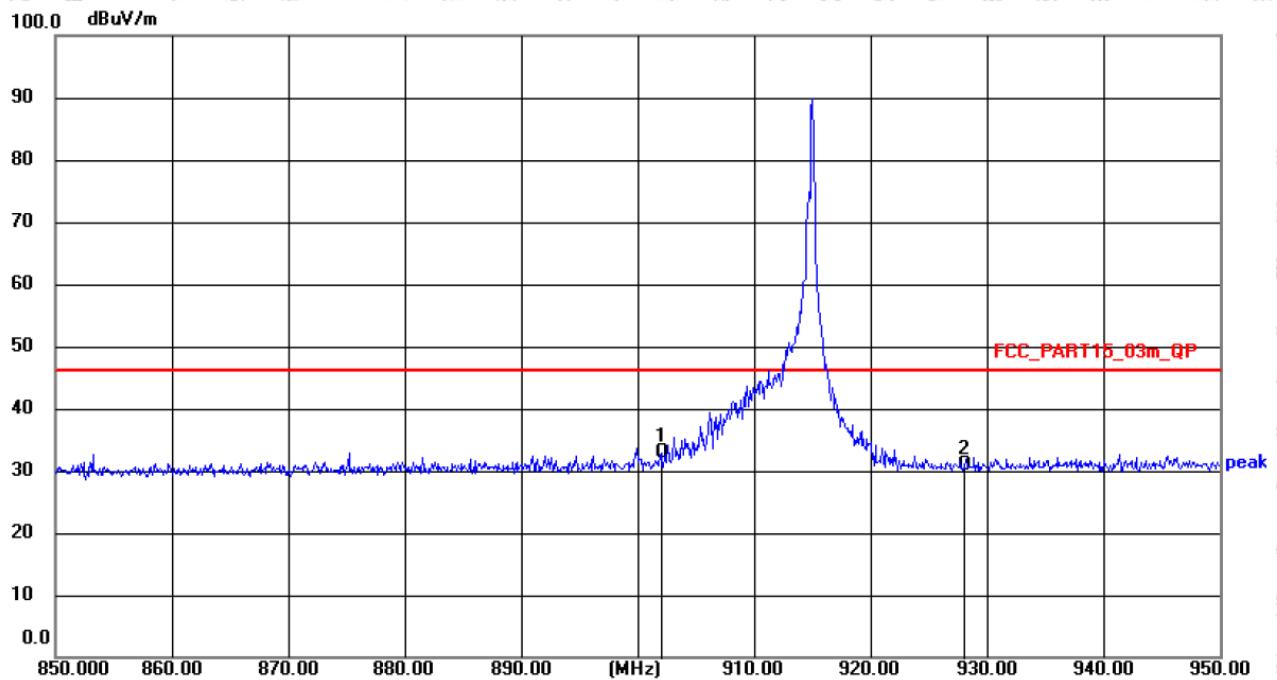
Frequency (MHz)	Read Level (dB μ V)	polarization	Factor (dB/m)	Level (dB μ V/m)	Limit Line (dB μ V/m)	Margin (dB)	Detector
1830	53.98	H	-24.37	29.61	74	44.39	peak
3123.039	57.22	H	-20.81	36.41	74	37.59	peak
3714.443	57.84	H	-20.96	36.88	74	37.12	peak
5797.032	56.6	H	-17.11	39.49	74	34.51	peak
7476.006	54.97	H	-12.06	42.91	74	31.09	peak
7562.942	53.29	H	-11.86	41.43	74	32.57	peak
1830	54.93	V	-24.37	30.56	74	43.44	peak
3123.039	56.55	V	-20.81	35.74	74	38.26	peak
3714.443	58.47	V	-20.96	37.51	74	36.49	peak
5932.638	57.82	V	-17.07	40.75	74	33.25	peak
7476.006	55.33	V	-12.06	43.27	74	30.73	peak
7562.942	54.3	V	-11.86	42.44	74	31.56	peak

Remarks: Data with margin greater than 20dB was not recorded in the report.



Band Edge:

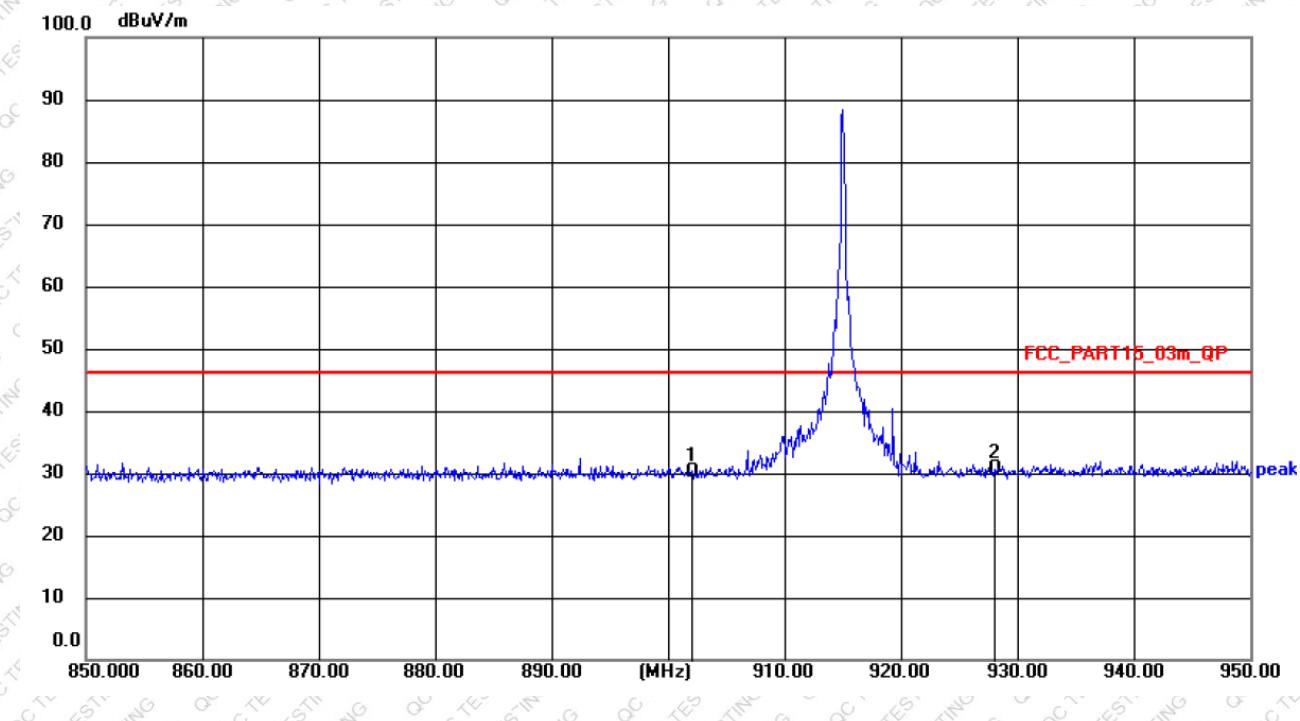
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	902.0000	6.26	26.54	32.80	46.00	13.20	QP
2	928.0000	4.22	26.66	30.88	46.00	15.12	QP



Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	902.0000	3.90	26.14	30.04	46.00	15.96	QP
2 *	928.0000	4.16	26.38	30.54	46.00	15.46	QP

Remarks:

1. Level = Receiver Read level + Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. If the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in above table if the peak value complies with average limit.

6. 20dB Occupy Bandwidth

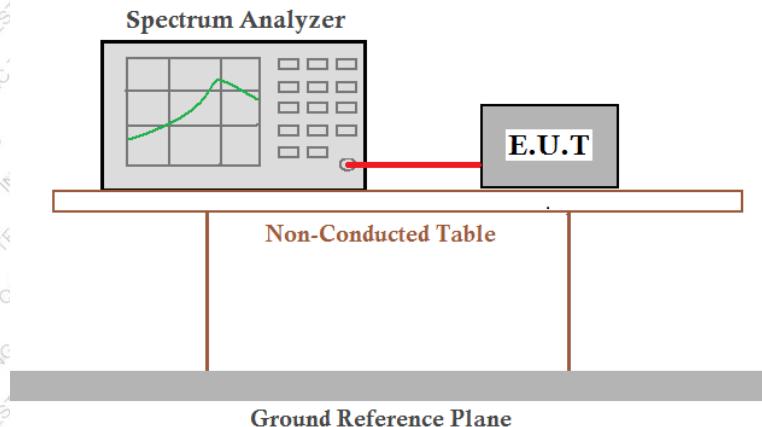
6.1. Applicable Standard

FCC Part15 C Section 15.215

6.2. Limit

N/A

6.3. Test setup



6.4. Test Data

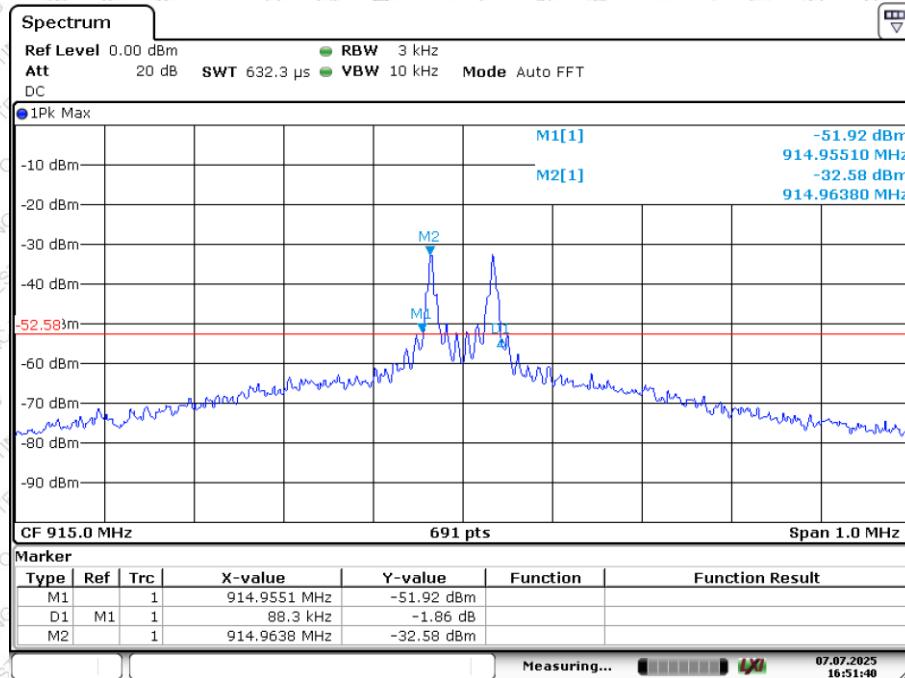
Temperature	24.5 °C	Humidity	47%
ATM Pressure	101.1kPa	Antenna Gain	0dBi
Test by	Fan Yang	Test result	PASS

Please refer to following table and plots.



Test Frequency (MHz)	-20dB bandwidth (MHz)
915	0.088

Test plot as follows:



Date: 7.JUL.2025 16:51:41

----- THE END OF TEST REPORT -----