

TEST REPORT

Application No.: GZCR2605000961HS
Applicant: Lucidtron Limited
Address of Applicant: 1217 New Tech Plaza 34 Tai Yau Street San Po Kong, KLN
Manufacturer: Nuve Controls LLC
Address of Manufacturer: 23221 Peralta Drive, Suite C, Laguna Hills, California 92653
Factory: Automated Technology(Phil.) Inc.
Address of Factory: Plant 2- Lot 1 Blk. 3 Phase 5 Ampere St. LISP1 SEPZ, Cabuyao, Laguna, PH 4025
Product Name: Nuve Smart Thermostat
Model No.: NWLS
Trade Mark: NUVE
Standard(s) : 47 CFR Part 15, Subpart C 15.249
Date of Receipt: 2026-05-20
Date of Test: 2026-06-08 to 2026-07-08
Date of Issue: 2026-07-13

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



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Revision Record			
Version	Report No.	Date	Remark
01	GZCR260500096102	2026-07-13	Original

Authorized for issue by:			
		Luke Lin	
		Luke Lin/Project Engineer	
Approved By		Vico Cui	
		Vico Cui/Reviewer	



2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions Below 1GHz	47 CFR Part 15, Subpart C 15.249	ANSI C63.10-2020+ COR.1-2023 Section 6.4&6.5	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
Radiated Emissions Above 1GHz		ANSI C63.10-2020+ COR.1-2023 Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
Field Strength of the Fundamental Signal(15.249(a))		ANSI C63.10-2020+ COR.1-2023 Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
20dB Bandwidth		ANSI C63.10-2020+ COR.1-2023 Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

N/A: Not applicable.



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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch

No.198, Kazhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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t (86-20) 82155555 sgs.china@sgs.com

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4 General Information

4.1 Details of E.U.T.

Power supply: DC 1.5V = size AAA 1.5V *1pcs
 Cable(s): N/A
 Test Voltage: DC 1.5V
 Operation Frequency: 915MHz, 917.5MHz, 920MHz
 Number of Channels: 3
 Modulation Type: 2FSK
 Channel Spacing: 2.5MHz
 Antenna Type: Chip Antenna
 Antenna Gain: -1 dBi according to antenna specification
 Antenna Number: 1

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions Below 1GHz	±3.08dB (9kHz to 150kHz); ±3.19dB(150kHz to 30MHz); ±5.14dB (30MHz-1GHz) (3m); ±4.90dB (30MHz-1GHz) (10m)
Radiated Emissions Above 1GHz	±4.88dB (1GHz-6GHz); ±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz)
Field Strength of the Fundamental Signal(15.249(a))	±5.14dB (3m); ±4.90dB (10m)
20dB Bandwidth	± 0.274%

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.



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Guangzhou Branch Competency Laboratory

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t (86-20) 82155555 sgs.china@sgs.com

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663
Tel: +86 20 82155555
No tests were sub-contracted.

4.5 Test Facility

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Guangzhou Branch EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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5 Equipment List

Radiated Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2025-08-13	2028-08-12
Coaxial cable	Mirco-COAX UTIFLEX	311A	EMC0540	2024-08-19	2026-08-18
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2025-11-25	2026-11-24
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2026-03-28	2028-03-27
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR7	EMC2220	2025-11-18	2026-11-17
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess-Elektronik	VULB 9168	EMC2174	2025-04-21	2027-04-20

Radiated Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2025-08-11	2026-08-10
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2025-08-11	2026-08-10
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2025-05-13	2027-05-12
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2026-06-07	2028-06-06
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2025-08-12	2026-08-11
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2025-03-22	2028-03-21
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2025-08-12	2026-08-11
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Preamplifier (1-18GHz)	Shenzhen TST	LNA010180G50	EMC6036	2026-04-14	2027-04-13
Intelligent Coaxial RF Switch (DC-18GHz)	Shenzhen TST	ICS01018	EMC6037	2026-04-14	2027-04-13



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Guangzhou Branch Calibration Laboratory

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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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Field Strength of the Fundamental Signal(15.249(a))					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2025-08-13	2028-08-12
Coaxial cable	Mirco-COAX UTIFLEX	311A	EMC0540	2024-08-19	2026-08-18
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2025-11-25	2026-11-24
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR7	EMC2220	2025-11-18	2026-11-17
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess-Elektronik	VULB 9168	EMC2174	2025-04-21	2027-04-20

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2025-11-02	2026-11-01
MXA Signal Analyzer (10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2025-11-25	2026-11-24

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2026-05-14	2027-05-13



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

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 integrated on the main PCB and no consideration of replacement.

The best case gain of the antenna is -1dBi.

Antenna location: Refer to Internal photos

7 Radio Spectrum Matter Test Results

7.1 Radiated Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10-2020+ COR.1-2023 Section 6.4&6.5

Test Engineer: Bob Qu

Test Distance: 3 m below 30 MHz; 10 m above 30 MHz

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

Note

1. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Limit = The limit above - Aux Factor (if applicable)

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C

Humidity: 56.3 % RH

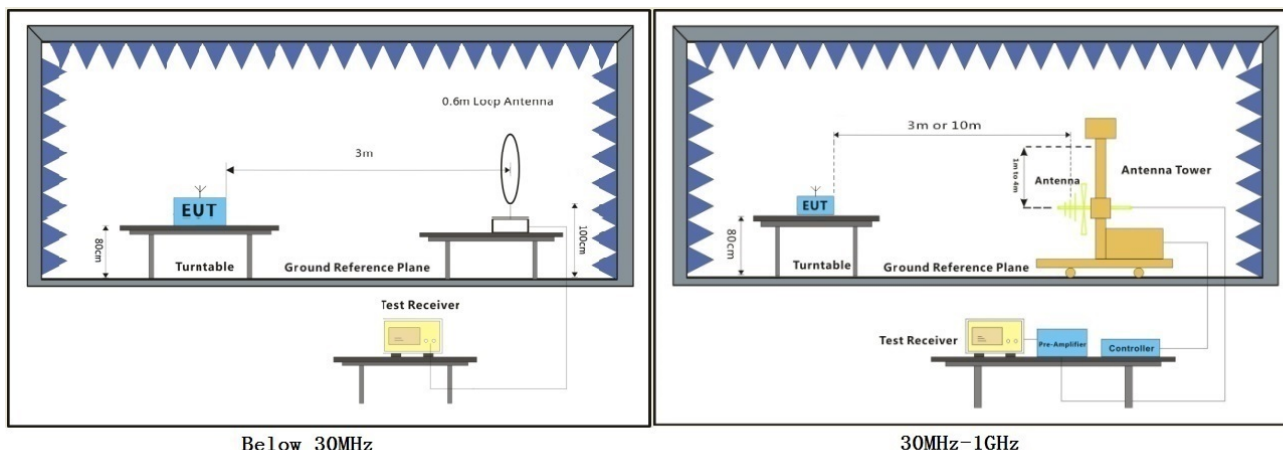
Atmospheric Pressure: 1005 mbar

7.1.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode_Keep the EUT in transmitting with modulation mode.



7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- The antenna height is varied from 1m to 4m 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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 quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

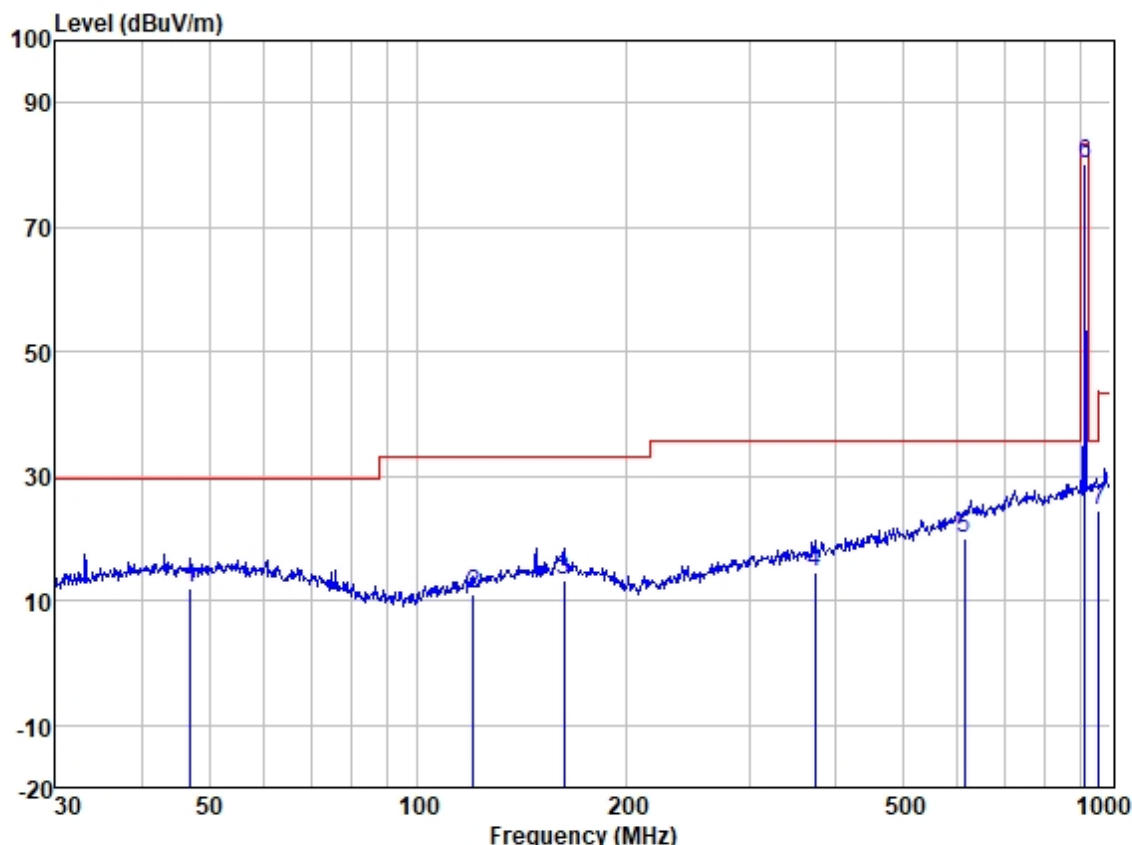
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only below points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



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Test Mode: 00; Polarity: Horizontal



Site : SGS
Job :
Model :
Power :
Test Mode : 915

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	46.995	25.17	13.93	0.73	27.97	11.86	29.54	-17.68	HORIZONTAL	QP
2	120.277	26.47	11.35	0.90	27.77	10.95	33.06	-22.11	HORIZONTAL	QP
3	162.611	26.60	13.39	1.03	27.69	13.33	33.06	-19.73	HORIZONTAL	QP
4	373.311	25.30	15.11	1.79	27.49	14.71	35.56	-20.85	HORIZONTAL	QP
5	614.000	25.97	20.46	2.07	28.46	20.04	35.56	-15.52	HORIZONTAL	QP
6	914.974	81.86	23.52	2.65	27.89	80.14	83.52	-3.38	HORIZONTAL	QP
7	960.000	25.81	23.81	2.69	27.76	24.55	35.56	-11.01	HORIZONTAL	QP

Remark: The 6th point was the fundamental frequency of the EUT.



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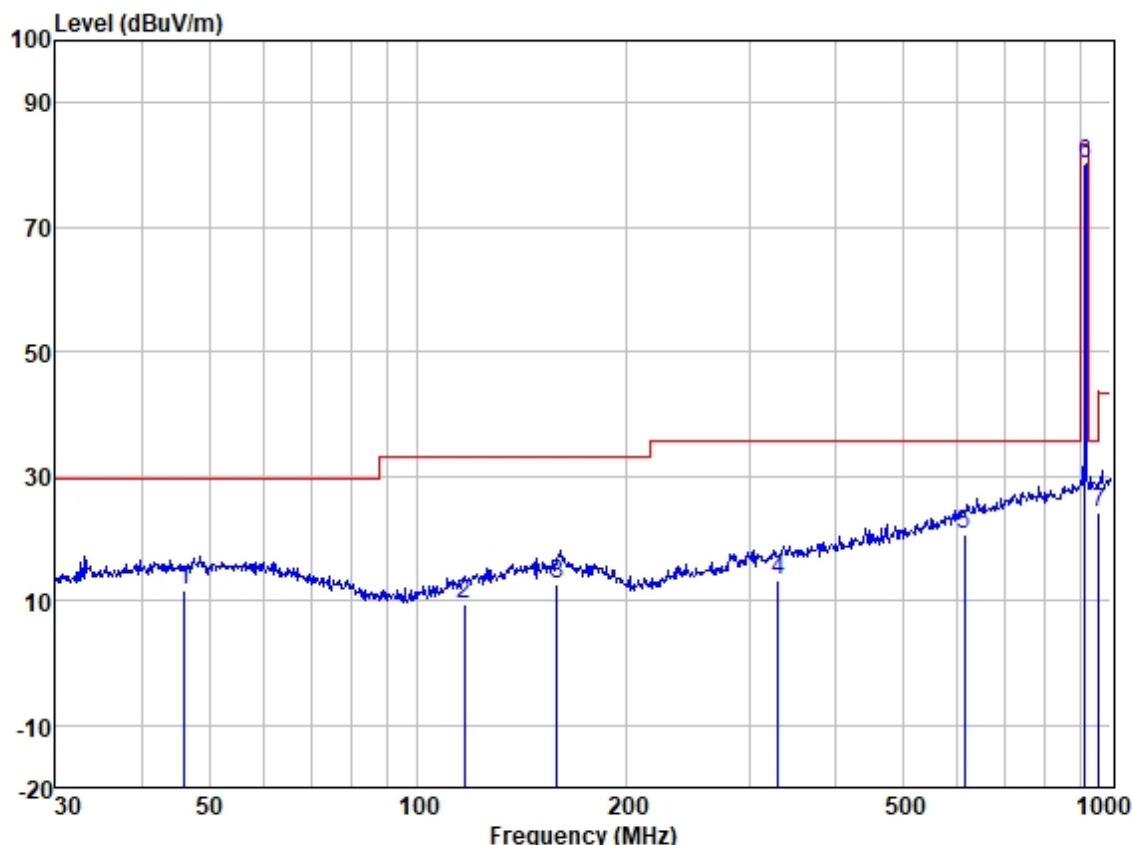
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Test Mode: 00; Polarity: Horizontal



Site : SGS
Job :
Model :
Power :
Test Mode : 917.5

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	46.016	24.92	13.93	0.73	27.97	11.61	29.54	-17.93	HORIZONTAL	QP
2	116.540	25.46	11.01	0.89	27.78	9.58	33.06	-23.48	HORIZONTAL	QP
3	158.668	25.89	13.44	1.02	27.70	12.65	33.06	-20.41	HORIZONTAL	QP
4	330.195	24.37	14.42	1.74	27.28	13.25	35.56	-22.31	HORIZONTAL	QP
5	614.000	26.70	20.46	2.07	28.46	20.77	35.56	-14.79	HORIZONTAL	QP
6	917.487	81.80	23.55	2.66	27.87	80.14	83.52	-3.38	HORIZONTAL	QP
7	960.000	25.42	23.81	2.69	27.76	24.16	35.56	-11.40	HORIZONTAL	QP

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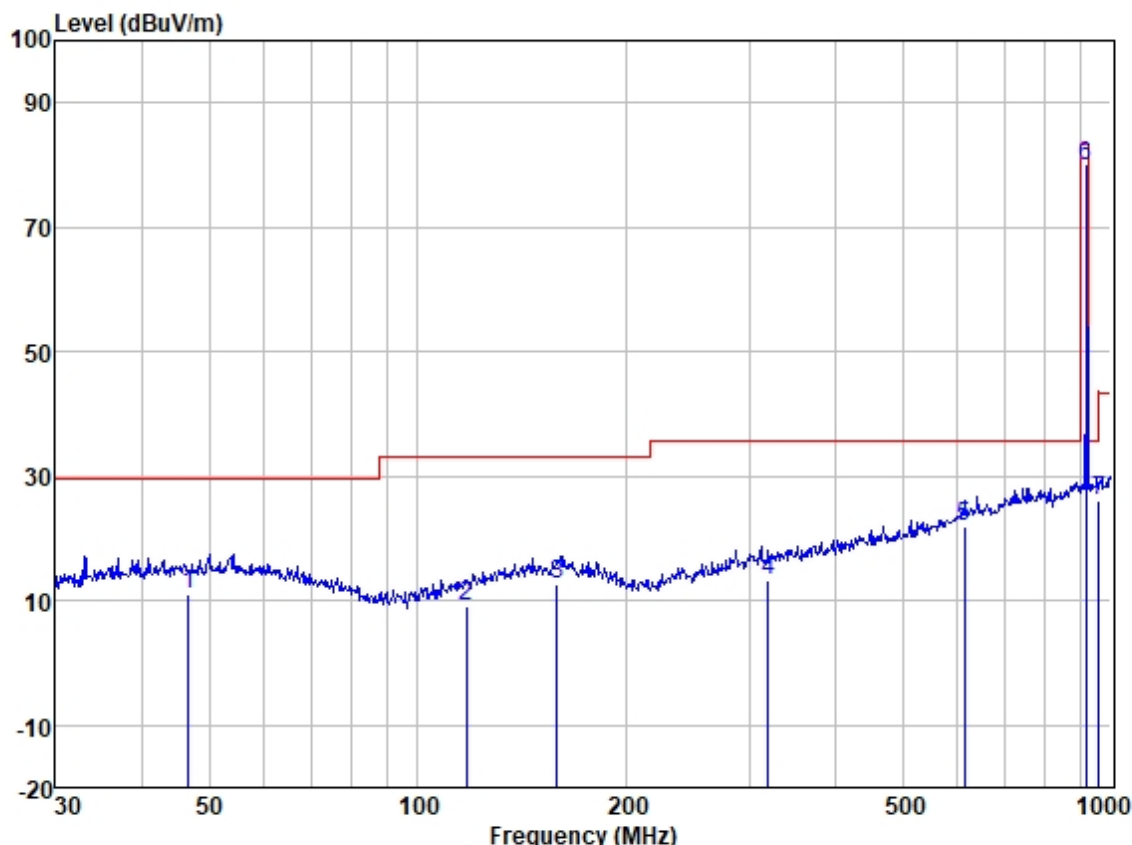
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Test Mode: 00; Polarity: Horizontal



Site : SGS
Job :
Model :
Power :
Test Mode : 920

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	46.666	24.19	13.93	0.73	27.97	10.88	29.54	-18.66	HORIZONTAL	QP
2	117.360	24.90	11.12	0.89	27.78	9.13	33.06	-23.93	HORIZONTAL	QP
3	158.668	25.83	13.44	1.02	27.70	12.59	33.06	-20.47	HORIZONTAL	QP
4	319.937	24.59	14.15	1.72	27.25	13.21	35.56	-22.35	HORIZONTAL	QP
5	614.000	27.84	20.46	2.07	28.46	21.91	35.56	-13.65	HORIZONTAL	QP
6	919.987	81.52	23.57	2.66	27.86	79.89	83.52	-3.63	HORIZONTAL	QP
7	960.000	27.27	23.81	2.69	27.76	26.01	35.56	-9.55	HORIZONTAL	QP

Remark: The 6th point was the fundamental frequency of the EUT.



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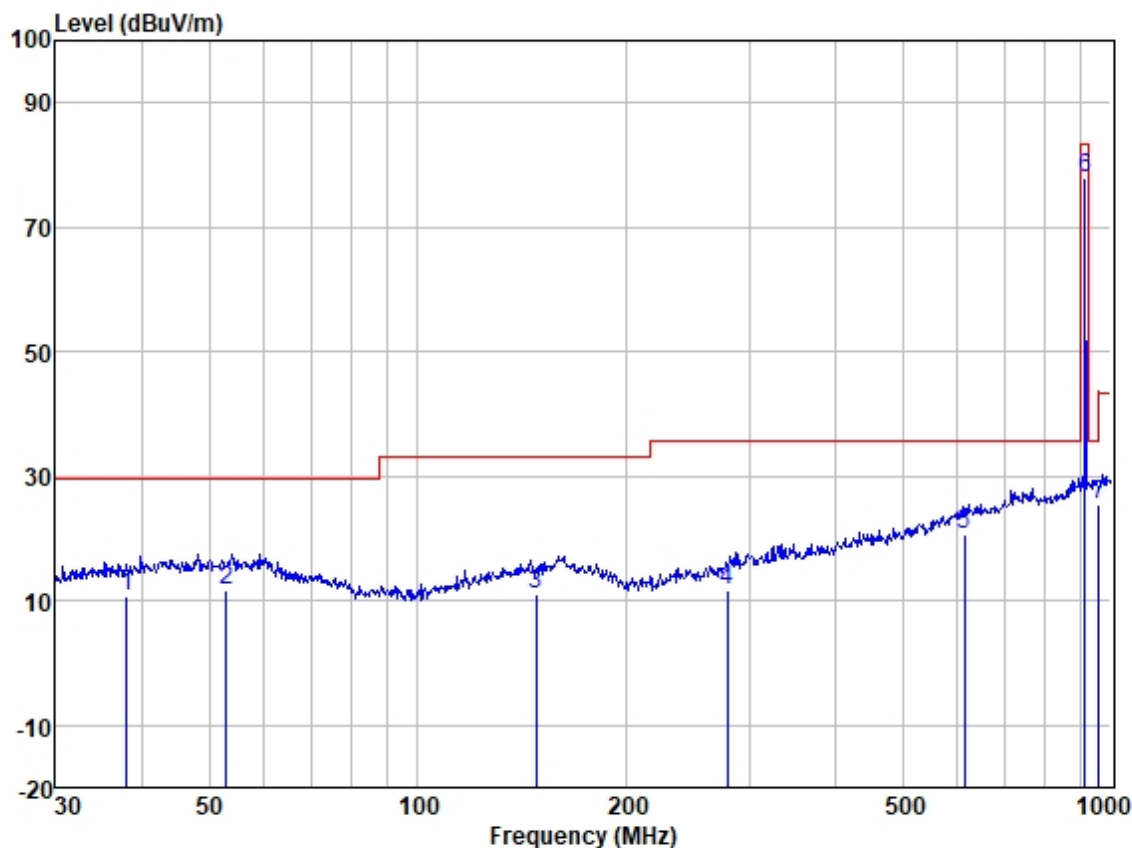
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Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode : 915

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	37.945	24.86	13.33	0.66	27.99	10.86	29.54	-18.68	VERTICAL	QP
2	52.945	24.98	13.83	0.76	27.95	11.62	29.54	-17.92	VERTICAL	QP
3	147.921	24.42	13.40	0.98	27.73	11.07	33.06	-21.99	VERTICAL	QP
4	279.044	24.34	13.08	1.64	27.23	11.83	35.56	-23.73	VERTICAL	QP
5	614.000	26.67	20.46	2.07	28.46	20.74	35.56	-14.82	VERTICAL	QP
6	914.974	79.75	23.52	2.65	27.89	78.03	83.52	-5.49	VERTICAL	QP
7	960.000	26.79	23.81	2.69	27.76	25.53	35.56	-10.03	VERTICAL	QP

Remark: The 6th point was the fundamental frequency of the EUT.



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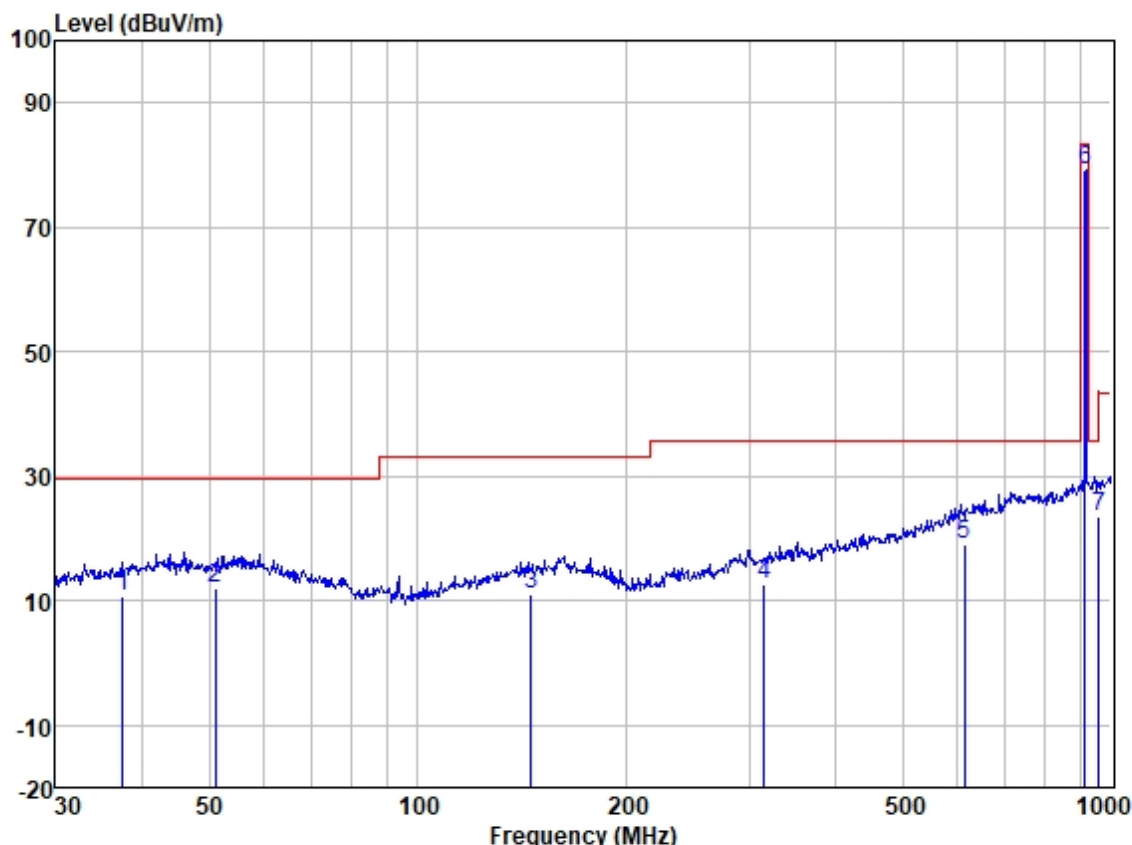
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Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode : 917.5

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 37.548	24.84	13.33	0.66	27.99	10.84	29.54	-18.70	VERTICAL	QP
2 50.942	25.40	13.90	0.75	27.96	12.09	29.54	-17.45	VERTICAL	QP
3 145.351	24.39	13.35	0.97	27.73	10.98	33.06	-22.08	VERTICAL	QP
4 315.481	24.31	13.99	1.72	27.24	12.78	35.56	-22.78	VERTICAL	QP
5 614.000	24.88	20.46	2.07	28.46	18.95	35.56	-16.61	VERTICAL	QP
6 917.487	81.02	23.55	2.66	27.87	79.36	83.52	-4.16	VERTICAL	QP
7 960.000	24.74	23.81	2.69	27.76	23.48	35.56	-12.08	VERTICAL	QP

Remark: The 6th point was the fundamental frequency of the EUT.



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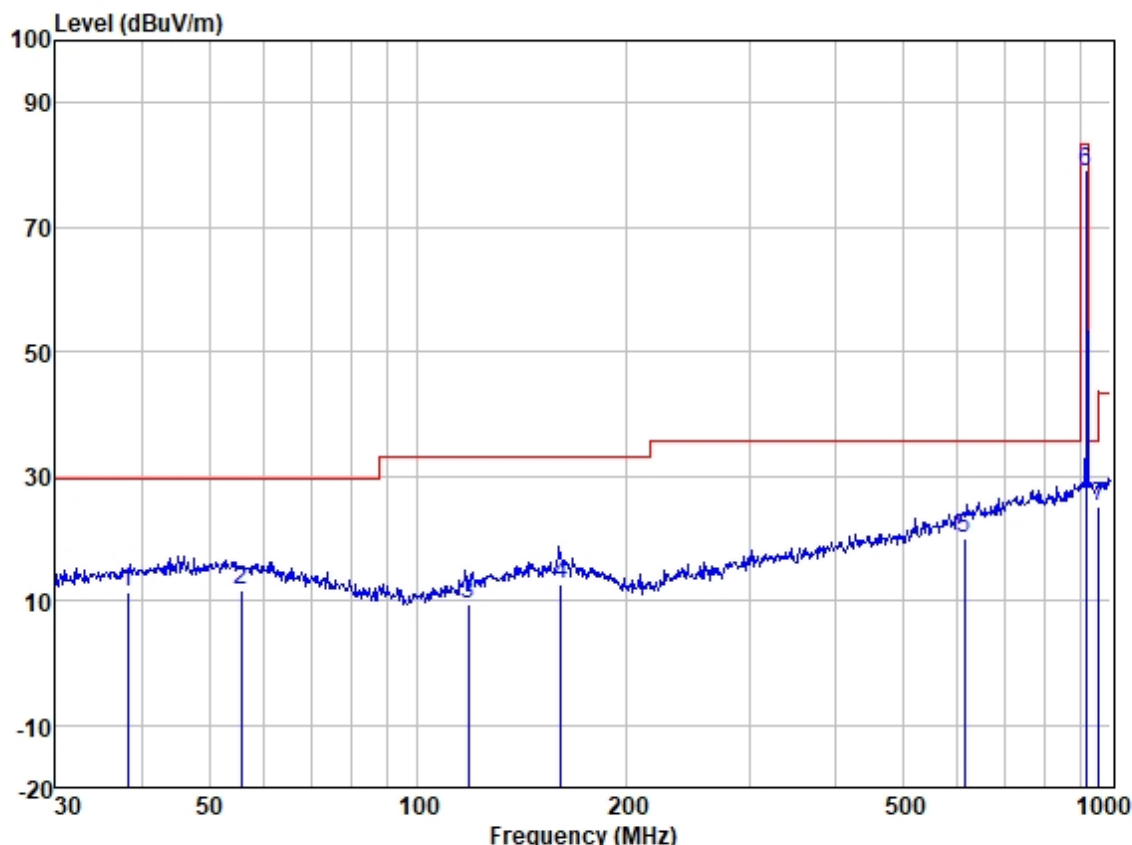
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Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode : 920

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	38.078	25.51	13.33	0.67	27.99	11.52	29.54	-18.02	VERTICAL	QP
2	55.609	25.08	13.72	0.76	27.95	11.61	29.54	-17.93	VERTICAL	QP
3	118.186	25.07	11.21	0.89	27.78	9.39	33.06	-23.67	VERTICAL	QP
4	160.909	26.02	13.40	1.03	27.70	12.75	33.06	-20.31	VERTICAL	QP
5	614.000	25.87	20.46	2.07	28.46	19.94	35.56	-15.62	VERTICAL	QP
6	919.987	80.54	23.57	2.66	27.86	78.91	83.52	-4.61	VERTICAL	QP
7	960.000	26.29	23.81	2.69	27.76	25.03	35.56	-10.53	VERTICAL	QP

Remark: The 6th point was the fundamental frequency of the EUT.



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7.2 Radiated Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10-2020+ COR.1-2023 Section 6.6

Test Engineer: Lily Kuang

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 26.4 °C

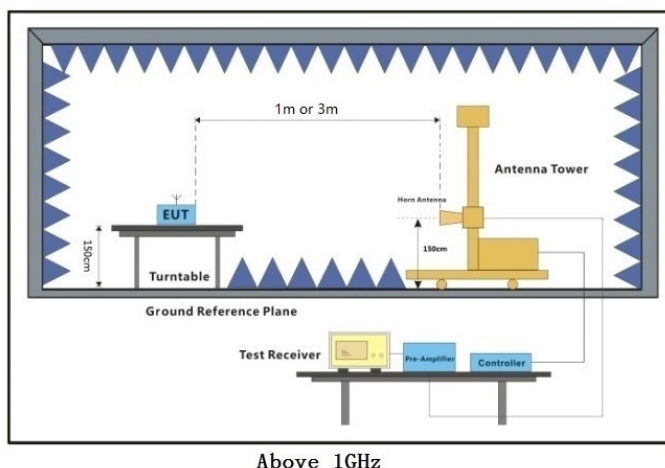
Humidity: 60.9 % RH

Atmospheric Pressure: 1005 mbar

7.2.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode_Keep the EUT in transmitting with modulation mode.

7.2.3 Test Setup Diagram



Above 1GHz



7.2.4 Measurement Procedure and Data

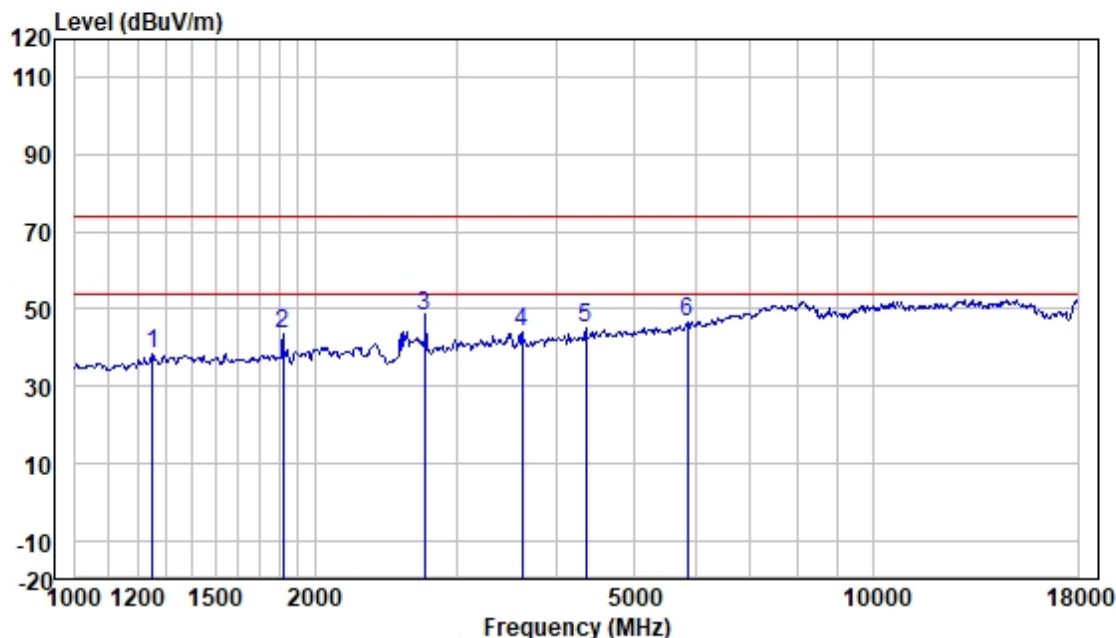
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- c. The antenna height is varied from 1m to 4m 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.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- h. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst-case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



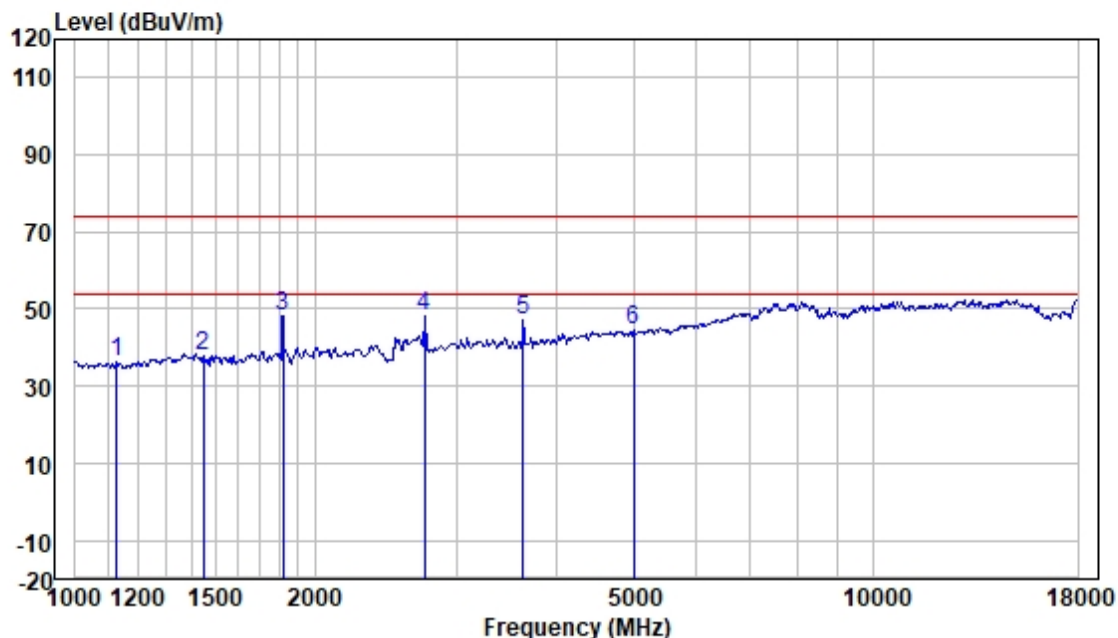
Test Mode: 00; Polarity: Vertical; Modulation:2FSK; Channel: 915MHz



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1252.89	49.24	25.42	2.52	38.55	38.63	74.00	-35.37	VERTICAL	Peak
2	1824.30	51.89	26.49	3.03	37.98	43.43	74.00	-30.57	VERTICAL	Peak
3	2742.14	54.04	28.26	3.66	37.69	48.27	74.00	-25.73	VERTICAL	Peak
4	3629.54	48.15	29.19	4.18	37.56	43.96	74.00	-30.04	VERTICAL	Peak
5	4354.45	46.99	30.72	4.60	37.43	44.88	74.00	-29.12	VERTICAL	Peak
6	5847.52	45.99	32.64	5.37	37.13	46.87	74.00	-27.13	VERTICAL	Peak



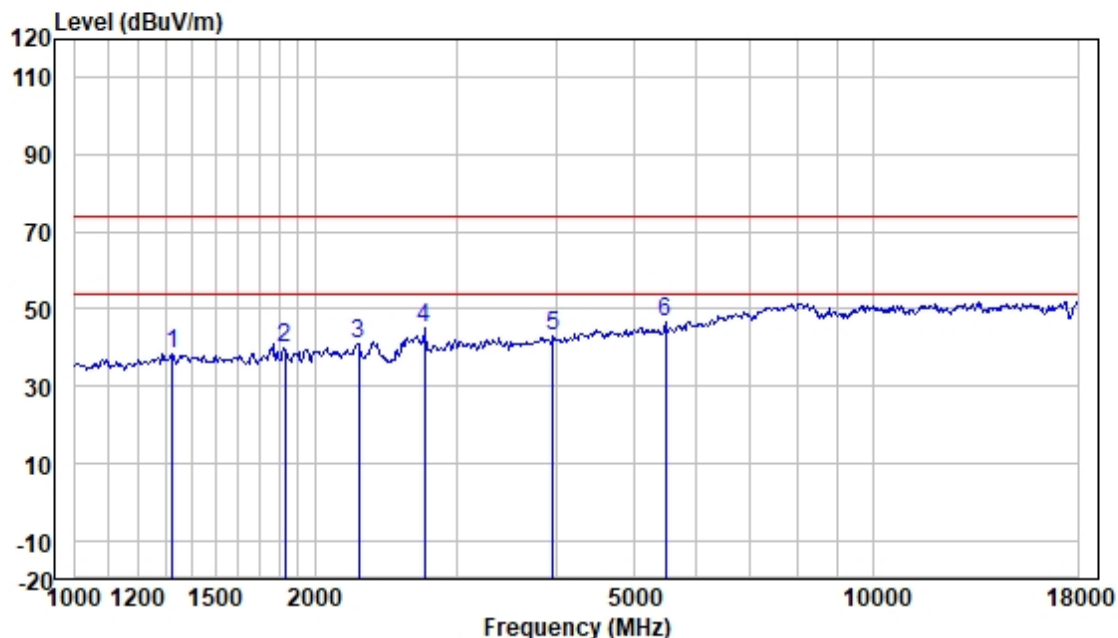
Test Mode: 00; Polarity: Horizontal; Modulation:2FSK; Channel: 915MHz



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1129.07	48.12	24.79	2.30	38.67	36.54	74.00	-37.46	HORIZONTAL	Peak
2	1447.69	47.85	25.86	2.68	38.35	38.04	74.00	-35.96	HORIZONTAL	Peak
3	1824.30	56.71	26.49	3.03	37.98	48.25	74.00	-25.75	HORIZONTAL	Peak
4	2742.14	54.20	28.26	3.66	37.69	48.43	74.00	-25.57	HORIZONTAL	Peak
5	3640.05	51.56	29.21	4.18	37.55	47.40	74.00	-26.60	HORIZONTAL	Peak
6	5002.50	45.02	31.78	4.90	37.30	44.40	74.00	-29.60	HORIZONTAL	Peak



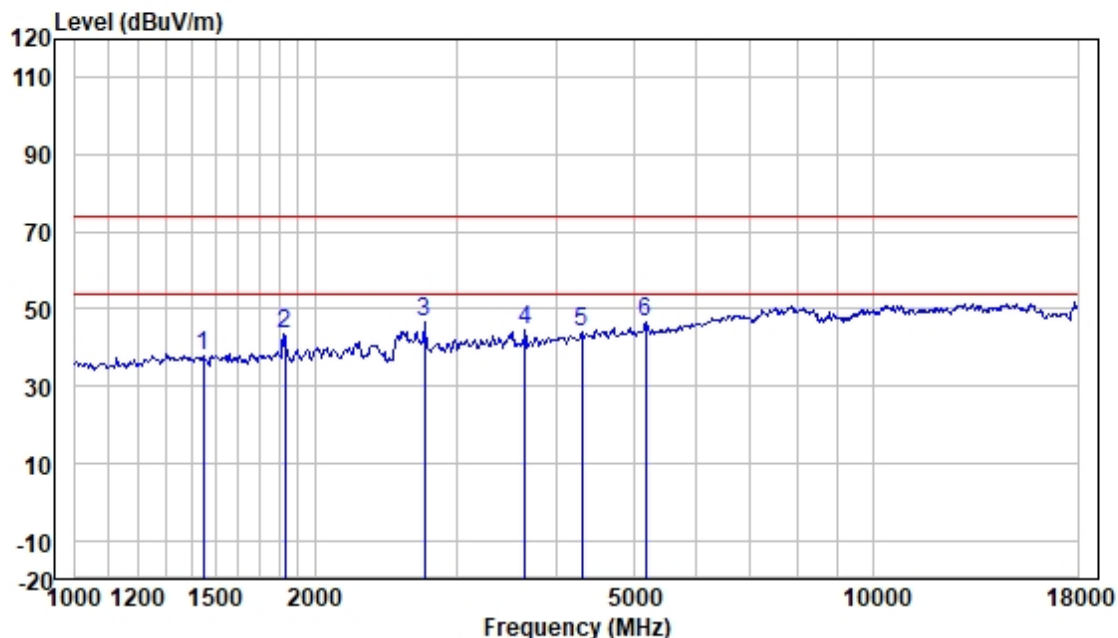
Test Mode: 00; Polarity: Vertical; Modulation:2FSK; Channel: 917.5MHz



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1327.45	48.70	25.66	2.61	38.47	38.50	74.00	-35.50	VERTICAL	Peak
2	1835.00	48.43	26.51	3.04	37.97	40.01	74.00	-33.99	VERTICAL	Peak
3	2265.91	48.26	27.35	3.35	37.76	41.20	74.00	-32.80	VERTICAL	Peak
4	2742.14	50.82	28.26	3.66	37.69	45.05	74.00	-28.95	VERTICAL	Peak
5	3969.77	46.06	29.96	4.48	37.50	43.00	74.00	-31.00	VERTICAL	Peak
6	5487.26	46.45	32.09	5.15	37.20	46.49	74.00	-27.51	VERTICAL	Peak



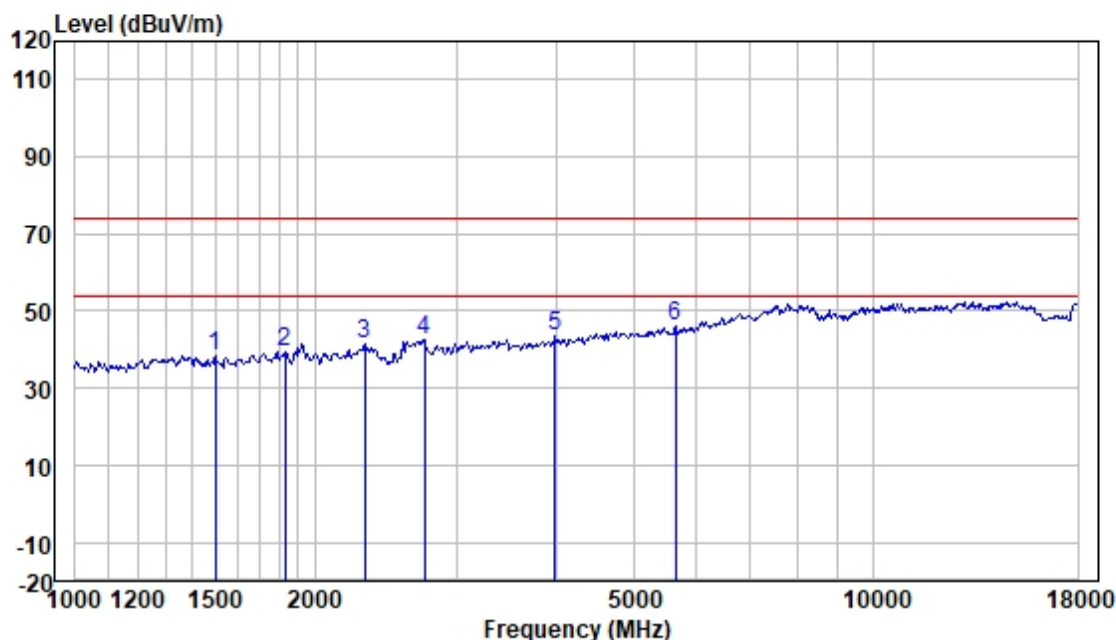
Test Mode: 00; Polarity: Horizontal; Modulation:2FSK; Channel: 917.5MHz



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1447.69	47.86	25.86	2.68	38.35	38.05	74.00	-35.95	HORIZONTAL	Peak
2	1835.00	52.04	26.51	3.04	37.97	43.62	74.00	-30.38	HORIZONTAL	Peak
3	2742.14	52.32	28.26	3.66	37.69	46.55	74.00	-27.45	HORIZONTAL	Peak
4	3661.15	48.45	29.26	4.20	37.55	44.36	74.00	-29.64	HORIZONTAL	Peak
5	4304.40	46.47	30.62	4.58	37.44	44.23	74.00	-29.77	HORIZONTAL	Peak
6	5179.05	46.92	31.87	4.98	37.26	46.51	74.00	-27.49	HORIZONTAL	Peak



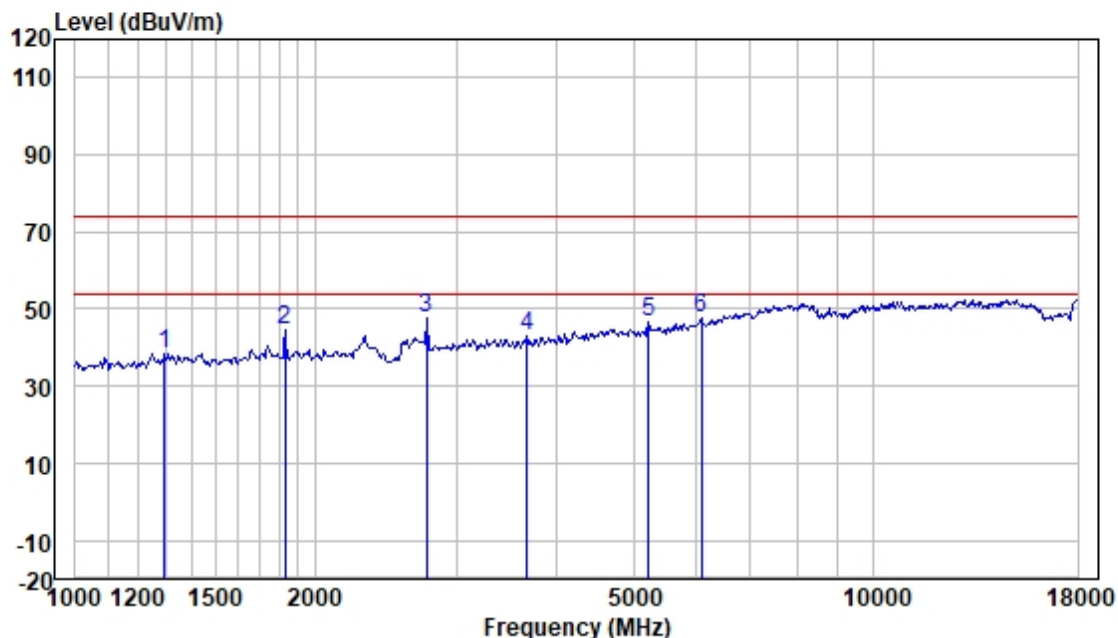
Test Mode: 00; Polarity: Vertical; Modulation:2FSK; Channel: 920MHz



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1498.78	48.03	25.91	2.70	38.30	38.34	74.00	-35.66	VERTICAL	Peak
2	1834.88	47.80	26.51	3.04	37.97	39.38	74.00	-34.62	VERTICAL	Peak
3	2305.55	48.38	27.47	3.39	37.75	41.49	74.00	-32.51	VERTICAL	Peak
4	2742.14	48.16	28.26	3.66	37.69	42.39	74.00	-31.61	VERTICAL	Peak
5	3992.78	46.45	29.99	4.49	37.50	43.43	74.00	-30.57	VERTICAL	Peak
6	5648.18	45.81	32.28	5.23	37.17	46.15	74.00	-27.85	VERTICAL	Peak



Test Mode: 00; Polarity: Horizontal; Modulation: 2FSK; Channel: 920 MHz



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1297.10	48.82	25.59	2.58	38.50	38.49	74.00	-35.51	HORIZONTAL	Peak
2	1834.88	52.76	26.51	3.04	37.97	44.34	74.00	-29.66	HORIZONTAL	Peak
3	2758.04	53.60	28.31	3.68	37.69	47.90	74.00	-26.10	HORIZONTAL	Peak
4	3682.37	47.23	29.31	4.23	37.55	43.22	74.00	-30.78	HORIZONTAL	Peak
5	5224.15	46.90	31.91	5.01	37.26	46.56	74.00	-27.44	HORIZONTAL	Peak
6	6088.99	46.50	33.00	5.47	37.10	47.87	74.00	-26.13	HORIZONTAL	Peak



7.3 Field Strength of the Fundamental Signal(15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
 Test Method: ANSI C63.10-2020+ COR.1-2023 Section 6.5&6.6
 Test Engineer: Bob Qu
 Limit:
 Test Distance: 10 m

Fundamental frequency (MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Remark: The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
 For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

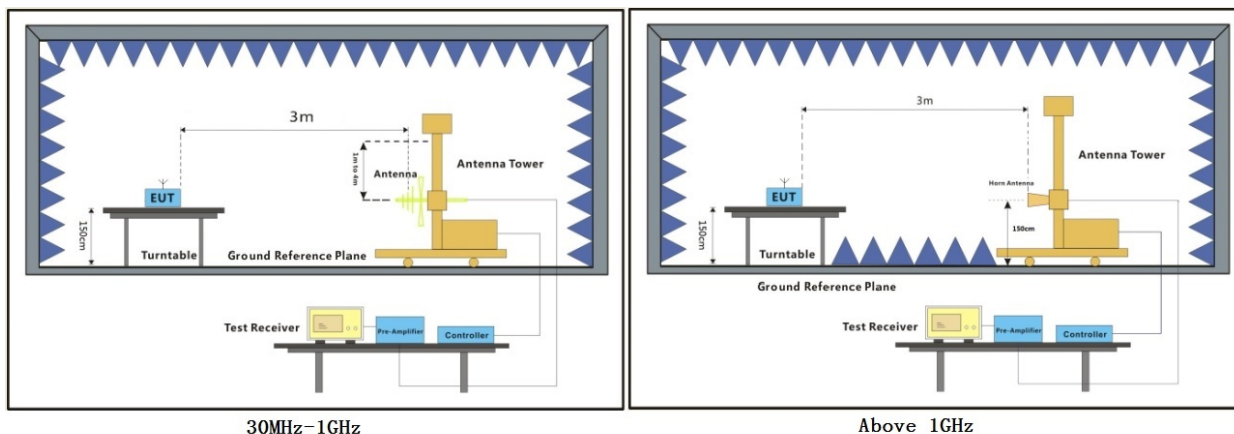
7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.8 °C Humidity: 56.6 % RH Atmospheric Pressure: 1005 mbar

7.3.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode_Keep the EUT in transmitting with modulation mode.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - d. 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.
 - e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
 - f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
 - g. 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.
 - h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
 - i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
 - j. Repeat above procedures until all frequencies measured was complete.
- Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Please refer to the 6th point in section 7.1.4 for details.



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7.4 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
 Test Method: ANSI C63.10-2020+ COR.1-2023 Section 6.9
 Test Engineer: Banna Ban

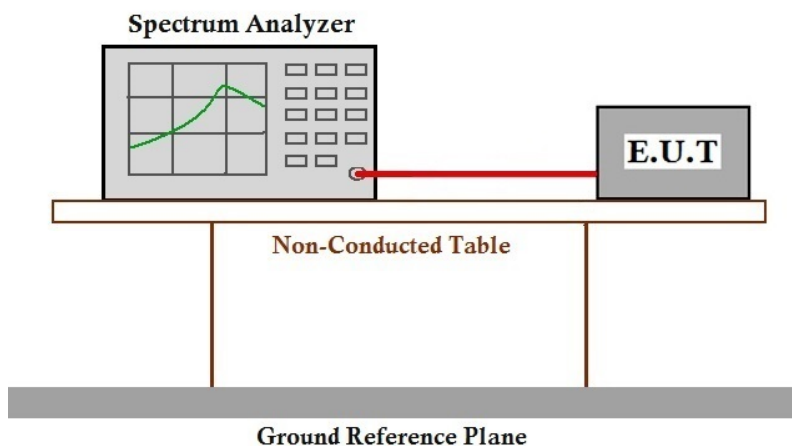
7.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.0 °C Humidity: 57.5 % RH Atmospheric Pressure: 1005 mbar

7.4.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode_Keep the EUT in transmitting with modulation mode.

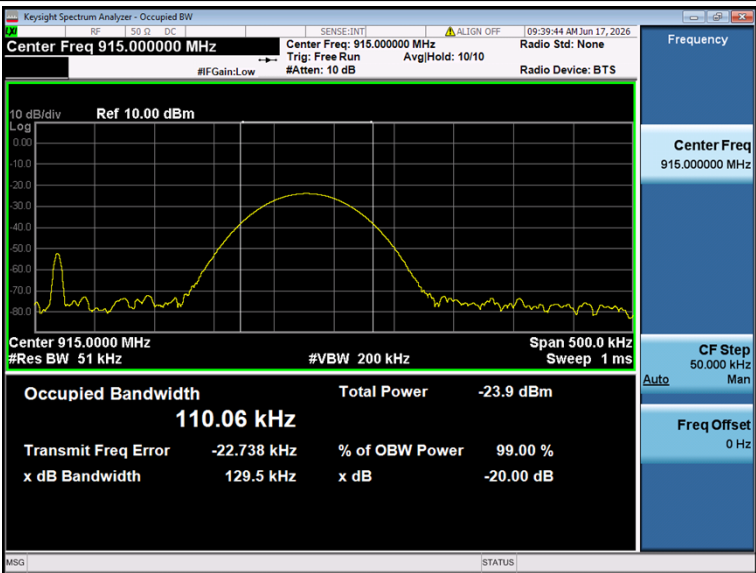
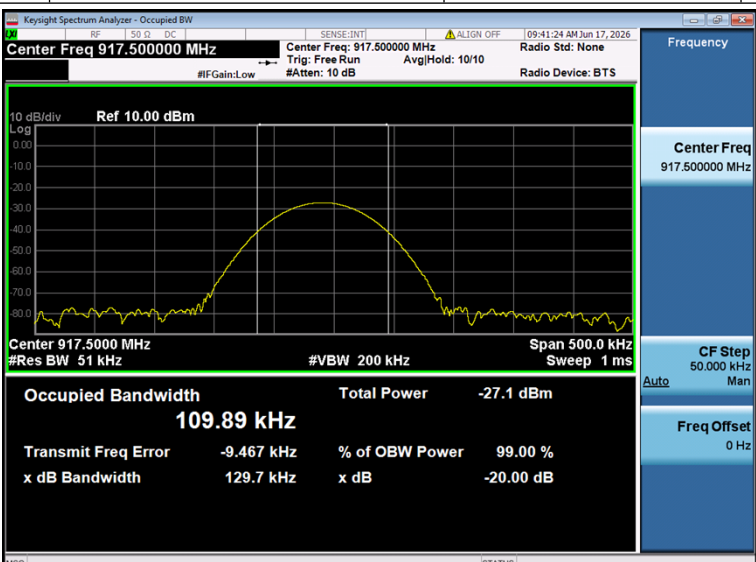
7.4.3 Test Setup Diagram



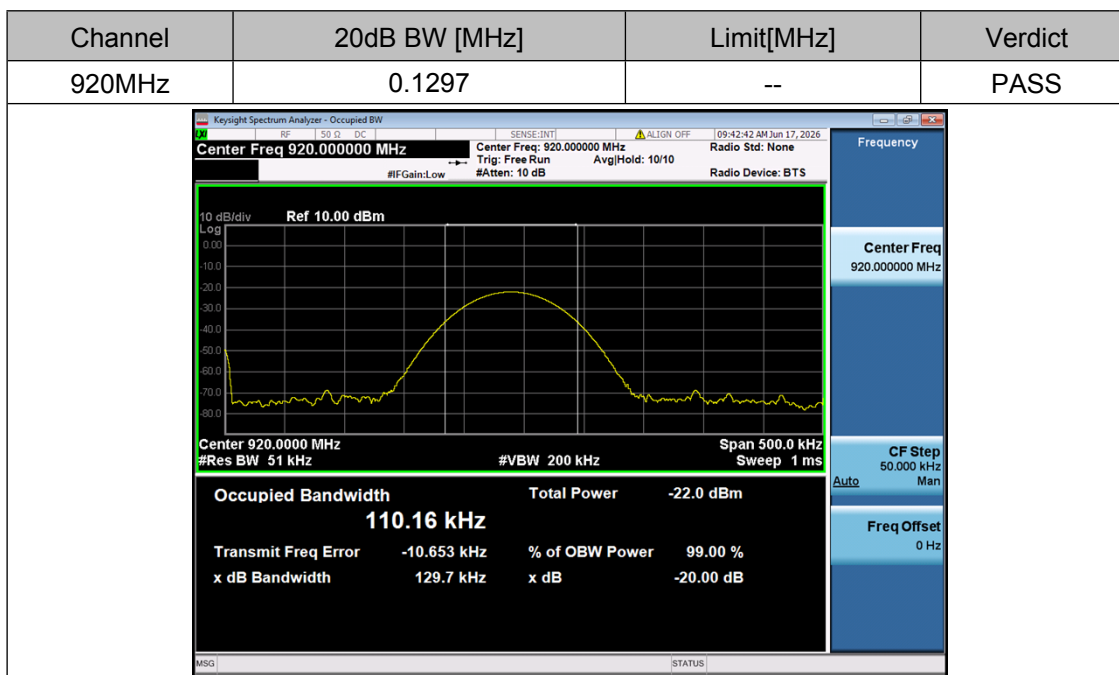
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7.4.4 Measurement Procedure and Data

Channel	20dB BW [MHz]	Limit[MHz]	Verdict
915MHz	0.1295	--	PASS
			
Channel	20dB BW [MHz]	Limit[MHz]	Verdict
917.5MHz	0.1297	--	PASS
			





8 Test Setup Photo

Refer to Test Setup Photos for GZCR260500096102



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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch & Guangzhou Laboratory

No.198, Kazhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2605000961HS

- End of the Report -



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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch & Guangzhou Laboratory

No.198, Kazhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com