

TEST REPORT

Application No.: GZCR2601000030HS
Applicant: R.F.E. ASIA PACIFIC LTD
Address of Applicant: Room 2608 – 2609, 1 Hung To Road, Kwun Tong, Hong Kong, China
Manufacturer: RFE EUROPA LTD.
Address of Manufacturer: 8 Clarendon Drive, Wymbush, Milton Keynes MK8 8ED, England, United Kingdom
Factory: Xiamen Kstar Sports Co., Ltd.
Address of Factory: No.999, Xinmin Road, Tong'An District, Xiamen, China
Product Name: Motorized Treadmill
Model No.: DYCV-10120US-120, AVUS-10120US-120 ♣
 ♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.

Trade Mark:


 Dynamax,
 47 CFR Part 15, Subpart C 15.249

Standard(s) :
Date of Receipt: 2026-01-06
Date of Test: 2026-01-23 to 2026-04-02
Date of Issue: 2026-04-10

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	GZCR260100003002	2026-04-10	Original

Authorized for issue by:			
		Pank Feng	
		Pank Feng/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

N/A: Not applicable

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2020) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Restricted Band Around Fundamental Frequency		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass
Radiated Emissions Below 1GHz		ANSI C63.10 (2020) 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) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
20dB Bandwidth		ANSI C63.10 (2020) 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.

✦ Declaration of EUT Family Grouping:

Model No.: DYCV-10120US-120, AVUS-10120US-120

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model designation and appearance colour.

Therefore only one model DYCV-10120US-120 was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 120V 60Hz for treadmill (2.4GHz receiver only) DC 3V=AAA x 2 for controller (2.4GHz transmitter)
Cable(s):	AC main: about 1.8m unshielded for treadmill
Test Voltage:	DC 3V
Operating frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	3 (2402MHz,2426MHz, 2480MHz)
Antenna Type:	PCB Antenna
Antenna Gain:	1.9dBi max according to the antenna specification

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

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.3 Measurement Uncertainty

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

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.



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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5 Equipment List

Field Strength of the Fundamental Signal (15.249(a))					
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
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2025-08-12	2026-08-11
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-23	2026-12-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Restricted Band Around Fundamental Frequency					
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
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-23	2026-12-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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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	2023-06-18	2026-06-17
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2025-08-12	2026-08-11
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2025-08-12	2026-08-11
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-23	2026-12-22
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

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



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General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2025-06-03	2026-06-02



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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

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 1.9dBi.

Antenna location: Refer to Internal photos



7 Radio Spectrum Matter Test Results

7.1 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) Section 6.5&6.6

Test Engineer: Lin Liao

Limit:

Test Distance: 3m

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.

7.1.1 E.U.T. Operation

Operating Environment:

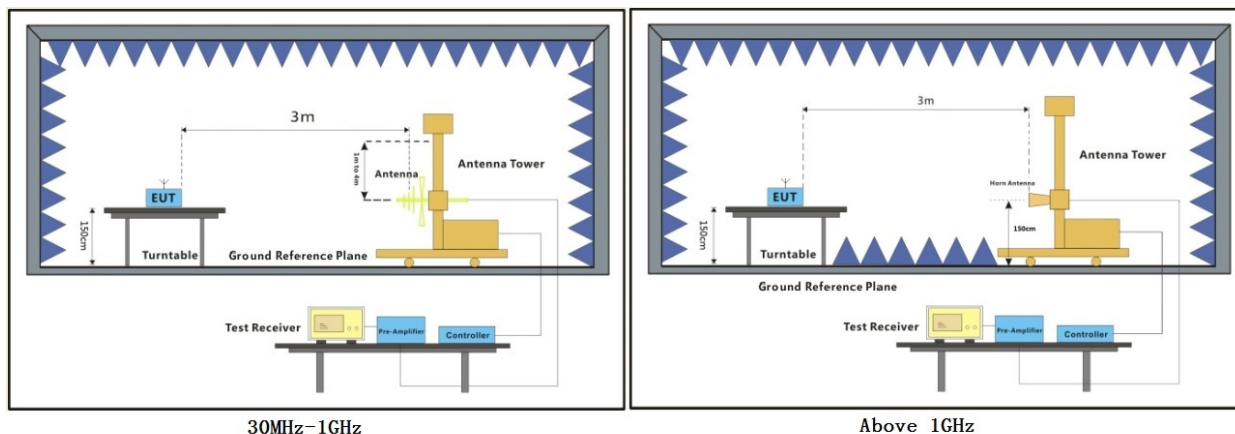
Temperature: 21.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1020 mbar

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 0.8 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.
- 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.
- 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.
- 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.
- 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.
- 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 peak, quasi-peak or average 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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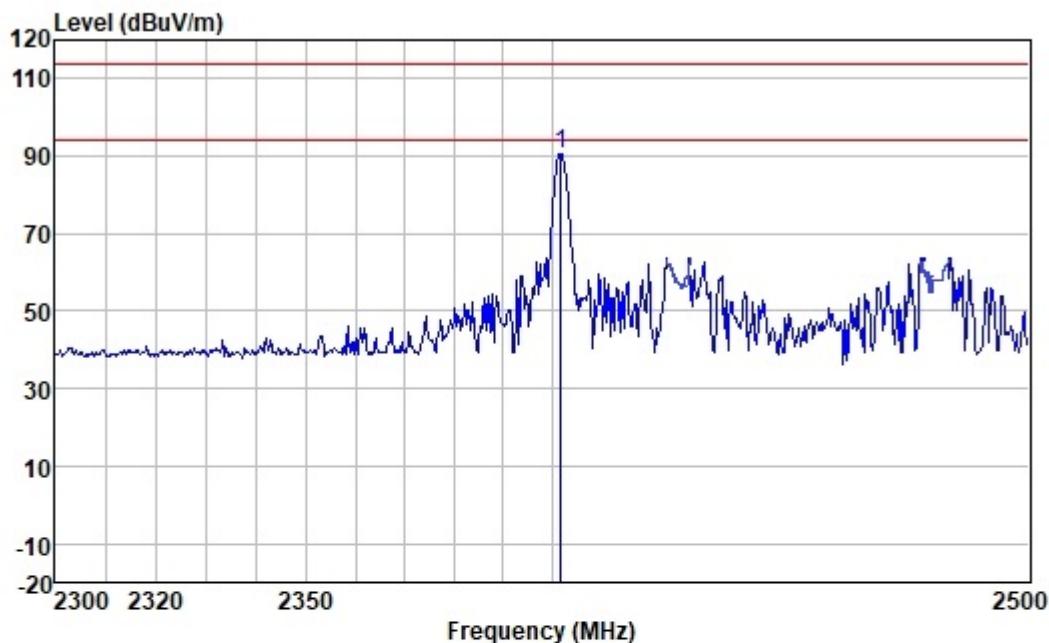
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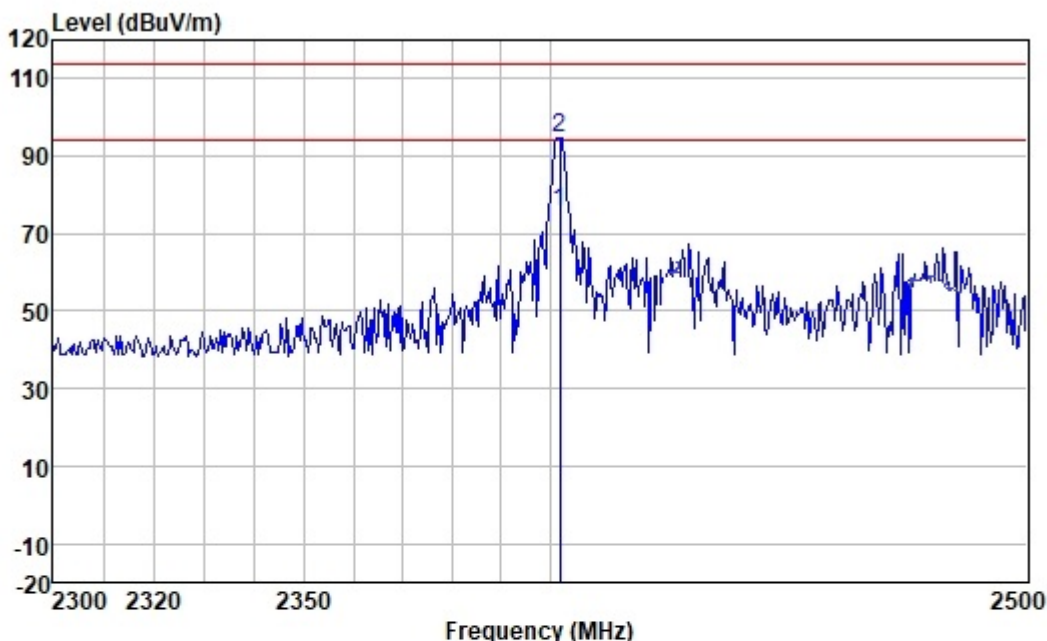
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



	Freq	ReadAntenna Level	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	2402.000	97.28	27.65	3.45	37.77	90.61	114.00	-23.39	VERTICAL	Peak



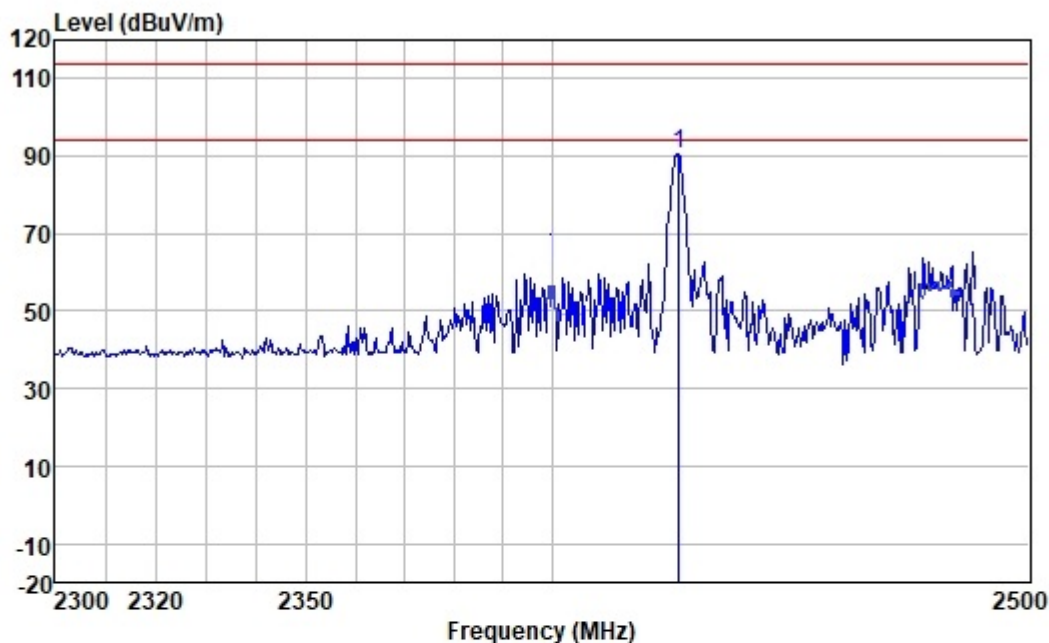
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



	Freq	ReadAntenna Level 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	2402.118	82.45	27.65	3.45	37.77	75.78	94.00	-18.22	HORIZONTAL Average
2	2402.118	101.55	27.65	3.45	37.77	94.88	114.00	-19.12	HORIZONTAL Peak



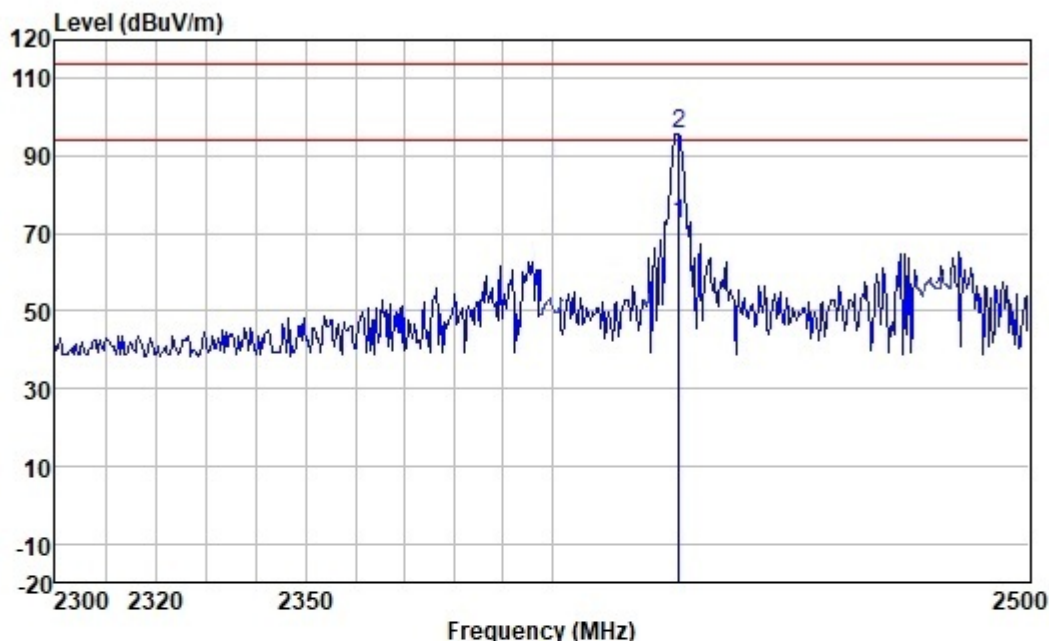
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



	Freq	ReadAntenna Level 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	2426.274	97.15	27.69	3.46	37.77	90.53	114.00	-23.47	VERTICAL Peak



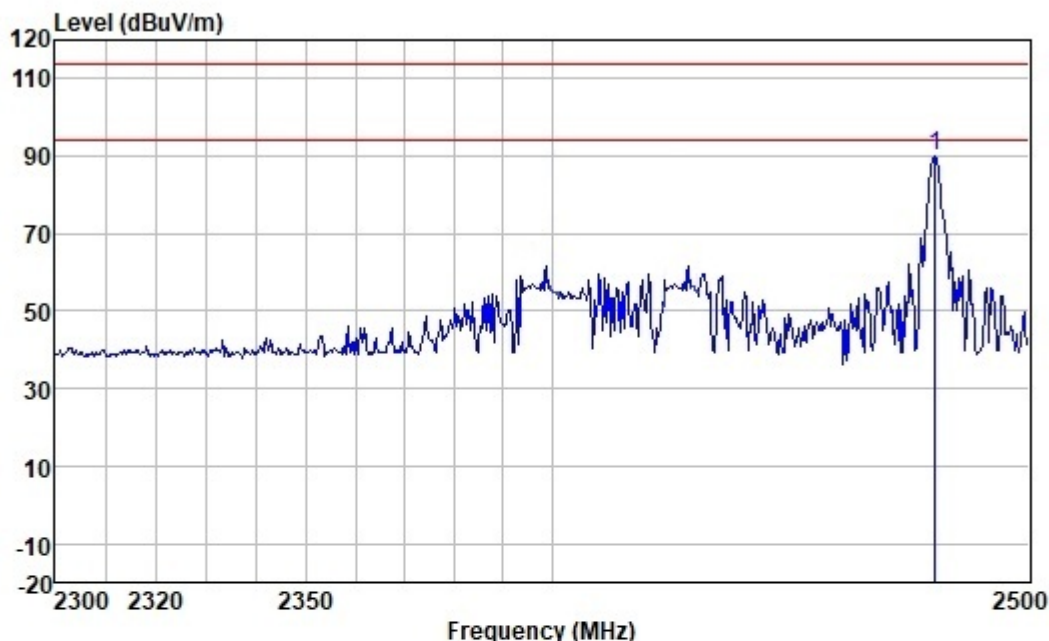
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2426.274	79.20	27.69	3.46	37.77	72.58	94.00	-21.42	HORIZONTAL Average
2	2426.274	102.30	27.69	3.46	37.77	95.68	114.00	-18.32	HORIZONTAL Peak



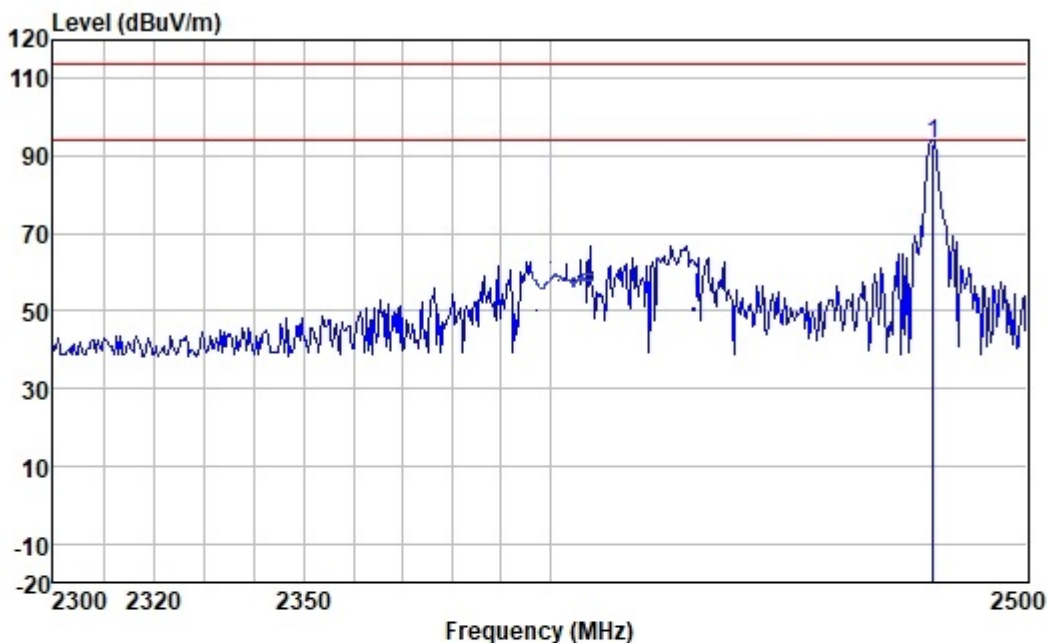
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 2480.275	96.59	27.75	3.48	37.76	90.06	114.00	-23.94	VERTICAL	Peak



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



	ReadAntenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2480.275	99.84	27.75	3.48	37.76	93.31	114.00	-20.69 HORIZONTAL Peak



7.2 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2020) Section 6.10.5

Test Engineer: Pank Feng

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value
Emission 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 Section 15.209, whichever is the lesser attenuation.		

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C

Humidity: 50.5 % RH

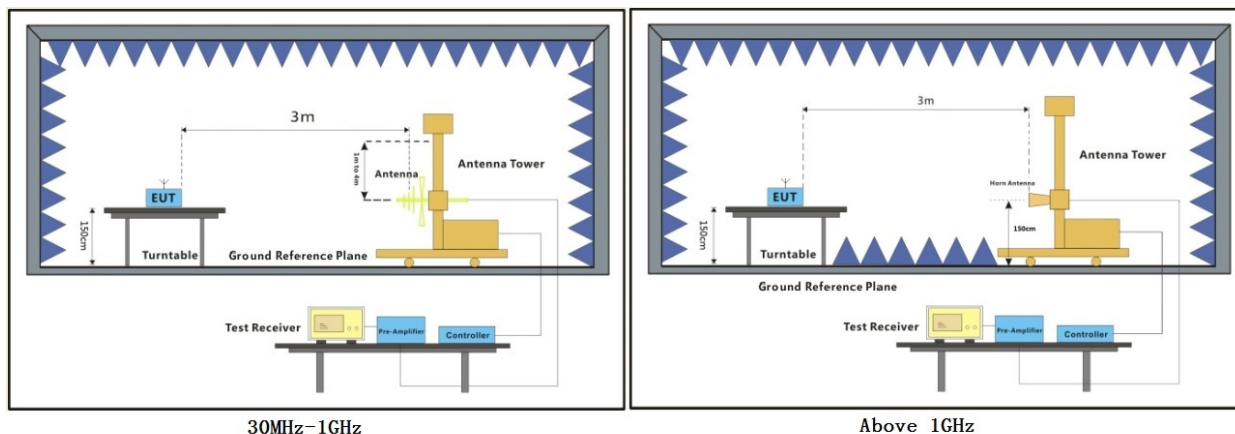
Atmospheric Pressure: 1020 mbar

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.



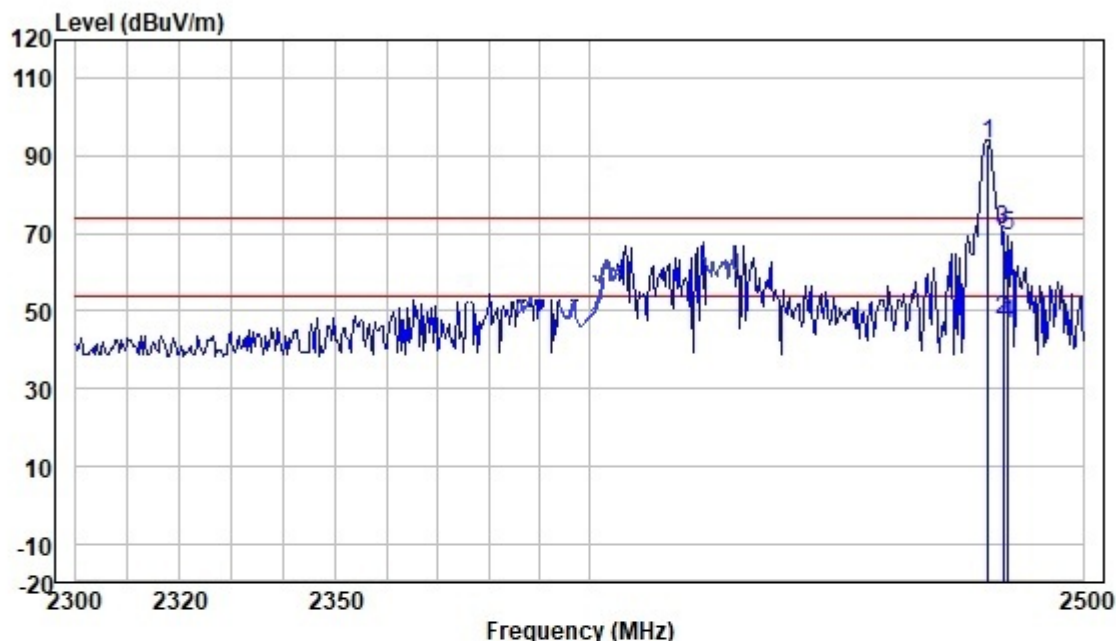
7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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 peak, quasi-peak or average 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

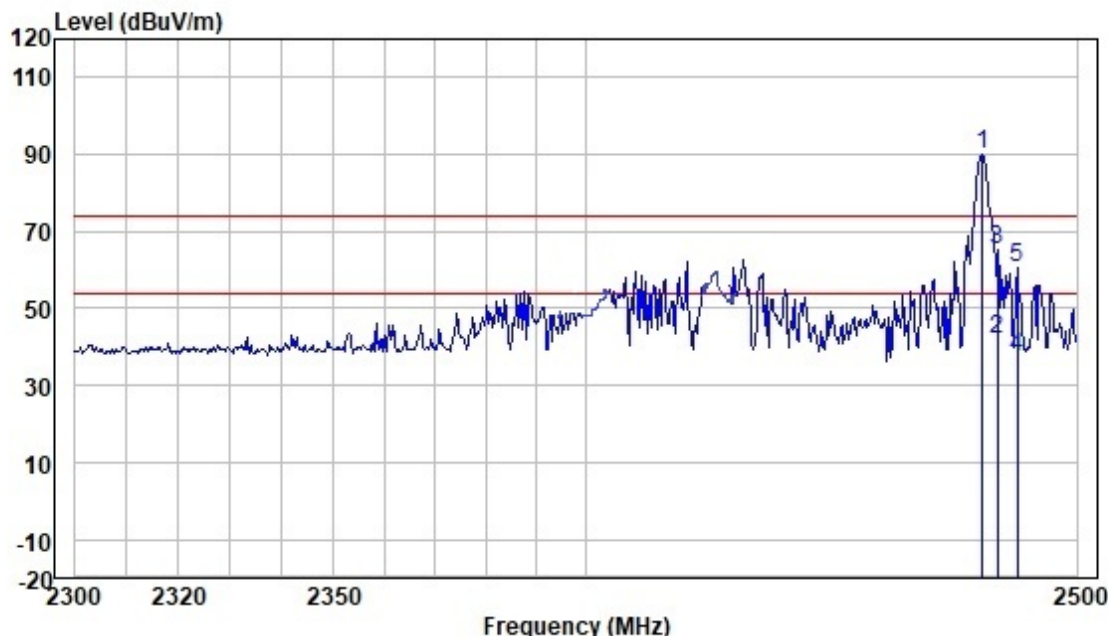
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



	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*	2480.28	99.84	27.75	3.48	37.76	93.31	74.00	19.31	HORIZONTAL	Peak
2	2483.50	54.09	27.76	3.49	37.76	47.58	54.00	-6.42	HORIZONTAL	Average
3	2483.50	77.19	27.76	3.49	37.76	70.68	74.00	-3.32	HORIZONTAL	peak
4	2484.42	53.01	27.76	3.49	37.76	46.50	54.00	-7.50	HORIZONTAL	Average
5	2484.42	76.11	27.76	3.49	37.76	69.60	74.00	-4.40	HORIZONTAL	peak



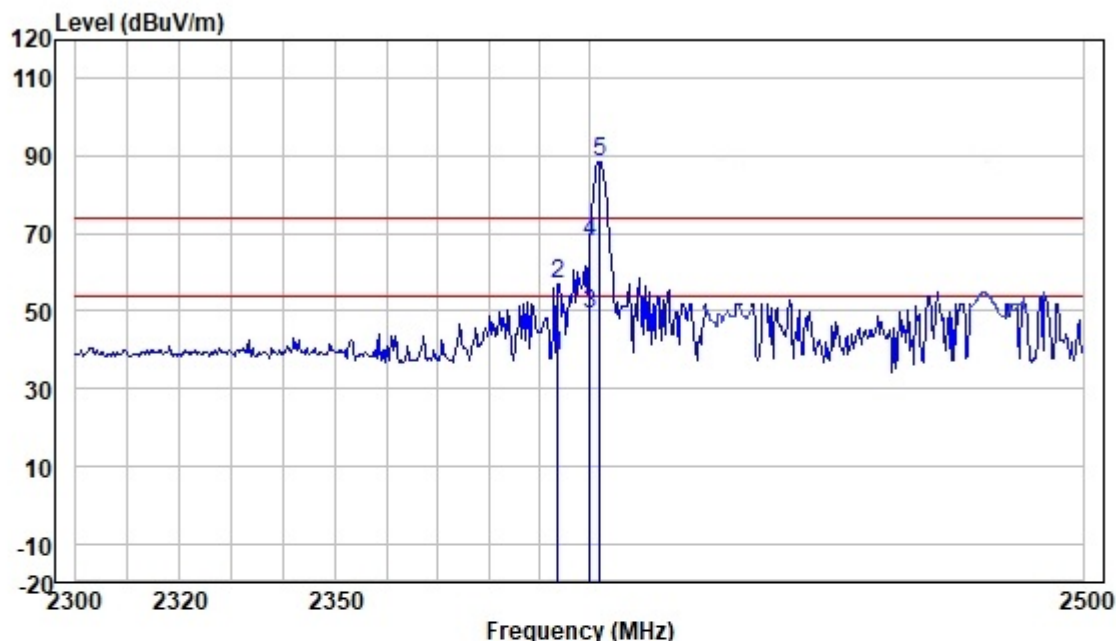
Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



	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*	2480.28	96.59	27.75	3.48	37.76	90.06	74.00	16.06	VERTICAL	Peak
2	2483.50	48.72	27.76	3.49	37.76	42.21	54.00	-11.79	VERTICAL	Average
3	2483.50	71.82	27.76	3.49	37.76	65.31	74.00	-8.69	VERTICAL	peak
4	2487.52	44.03	27.76	3.49	37.76	37.52	54.00	-16.48	VERTICAL	Average
5	2487.52	67.13	27.76	3.49	37.76	60.62	74.00	-13.38	VERTICAL	peak



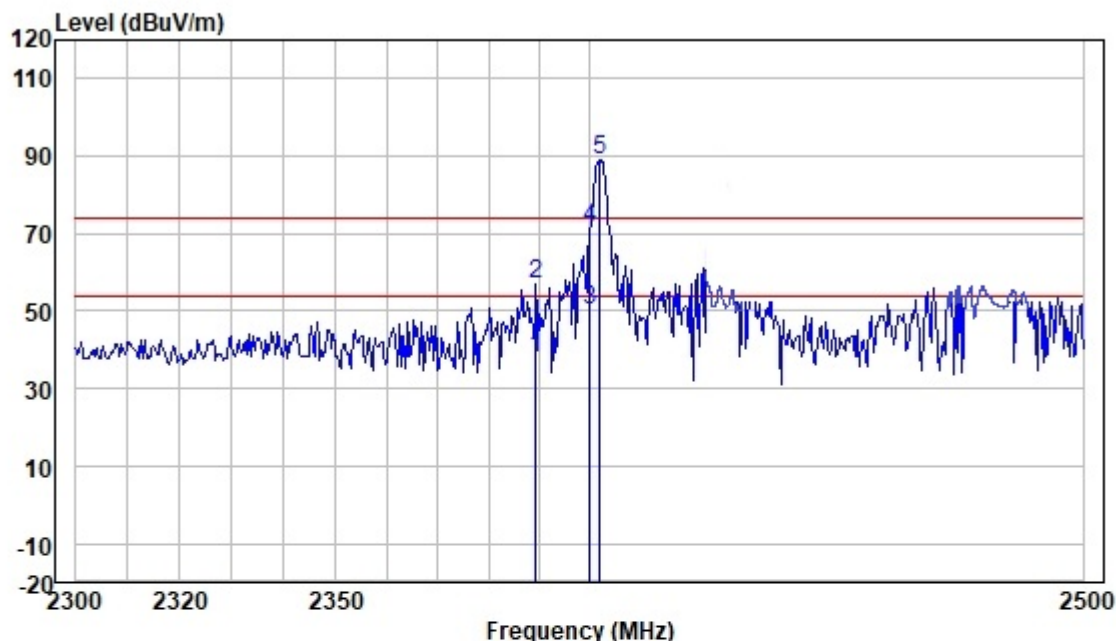
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2393.72	44.89	27.64	3.45	37.77	38.21	54.00	-15.79	VERTICAL	Average
2	2393.72	63.81	27.64	3.45	37.77	57.13	74.00	-16.87	VERTICAL	peak
3	2400.00	55.90	27.65	3.45	37.77	49.23	54.00	-4.77	VERTICAL	Average
4	2400.00	74.26	27.65	3.45	37.77	67.59	74.00	-6.41	VERTICAL	peak
5*	2402.00	95.27	27.65	3.45	37.77	88.60	74.00	14.60	VERTICAL	peak



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



	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	2389.33	44.38	27.63	3.44	37.77	37.68	54.00	-16.32	HORIZONTAL	Average
2	2389.33	63.47	27.63	3.44	37.77	56.77	74.00	-17.23	HORIZONTAL	peak
3	2400.00	56.90	27.65	3.45	37.77	50.23	54.00	-3.77	HORIZONTAL	Average
4	2400.00	78.20	27.65	3.45	37.77	71.53	74.00	-2.47	HORIZONTAL	peak
5*	2402.00	95.53	27.65	3.45	37.77	88.86	74.00	14.86	HORIZONTAL	peak



7.3 Radiated Emissions Below 1GHz

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

Test Method: ANSI C63.10 (2020) Section 6.4&6.5

Test Engineer: Bob Qu

Test Distance: 3m

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.

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. 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).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C

Humidity: 43.9 % RH

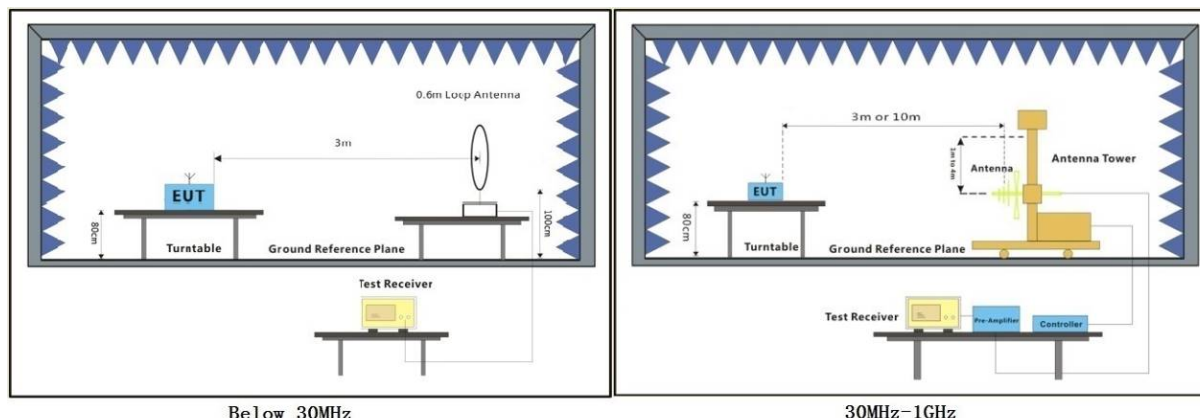
Atmospheric Pressure: 1020 mbar

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

- 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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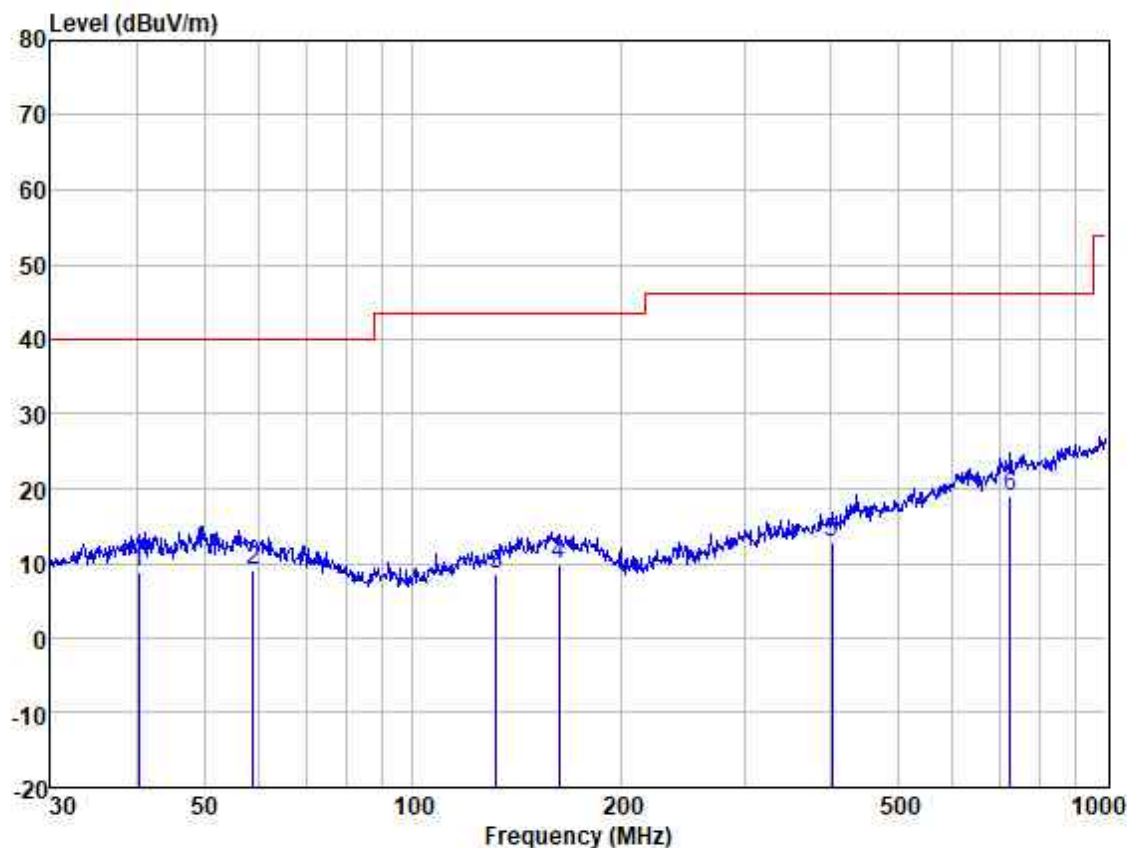
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Test Mode: 00; Polarity: Vertical

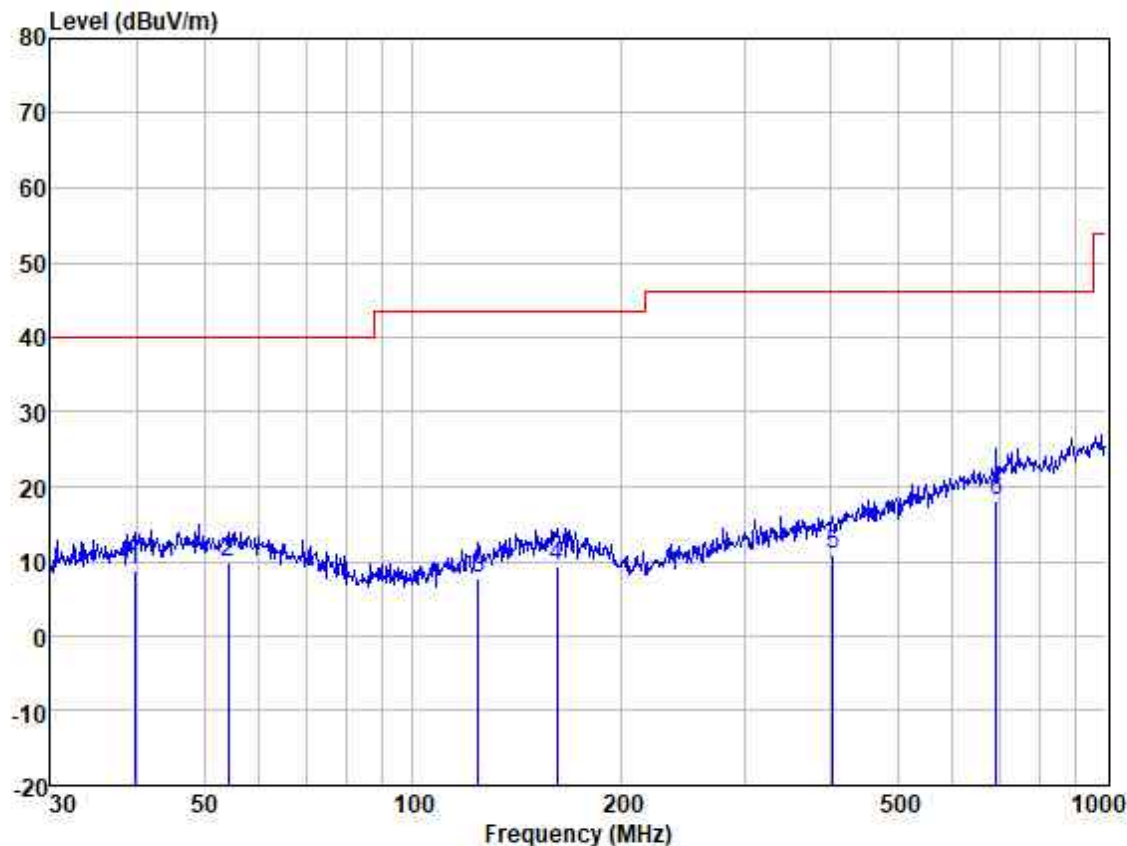


Site : SGS
t :
Model :
Power :
Test Mode : TX

	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	40.135	22.97	13.55	0.42	28.13	8.81	40.00	-31.19	VERTICAL	QP
2	58.819	23.33	13.31	0.51	28.10	9.05	40.00	-30.95	VERTICAL	QP
3	131.758	23.37	12.41	0.77	28.00	8.55	43.52	-34.97	VERTICAL	QP
4	162.611	23.38	13.39	0.86	27.73	9.90	43.52	-33.62	VERTICAL	QP
5	401.839	23.66	15.82	1.36	28.11	12.73	46.02	-33.29	VERTICAL	QP
6	726.805	23.94	21.75	1.84	28.67	18.86	46.02	-27.16	VERTICAL	QP



Test Mode: 00; Polarity: Horizontal



Site : SGS
t :
Model :
Power :
Test Mode : TX

	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	39.715	22.96	13.55	0.42	28.13	8.80	40.00	-31.20	HORIZONTAL	QP
2	54.071	23.80	13.77	0.49	28.10	9.96	40.00	-30.04	HORIZONTAL	QP
3	124.133	23.24	11.69	0.74	28.03	7.64	43.52	-35.88	HORIZONTAL	QP
4	161.474	22.91	13.40	0.85	27.75	9.41	43.52	-34.11	HORIZONTAL	QP
5	403.250	21.91	15.85	1.36	28.11	11.01	46.02	-35.01	HORIZONTAL	QP
6	694.417	24.27	20.78	1.80	28.70	18.15	46.02	-27.87	HORIZONTAL	QP



7.4 Radiated Emissions Above 1GHz

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

Test Method: ANSI C63.10 (2020) Section 6.6

Test Engineer: Lin Liao

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).

7.4.1 E.U.T. Operation

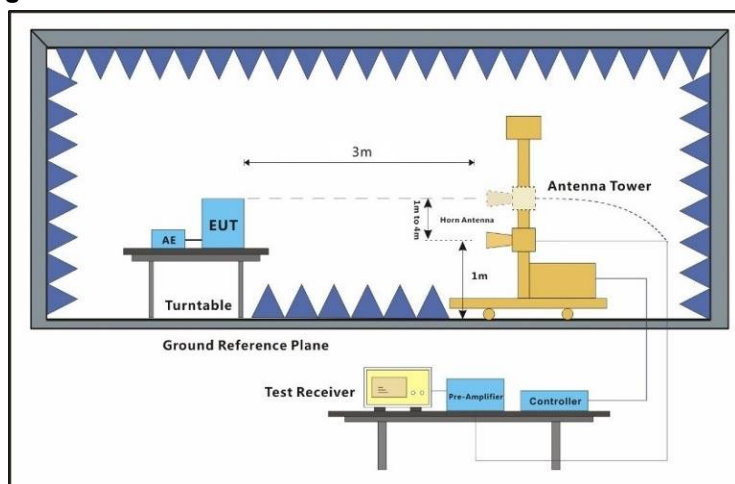
Operating Environment:

Temperature: 21.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1020 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



7.4.4 Measurement Procedure and Data

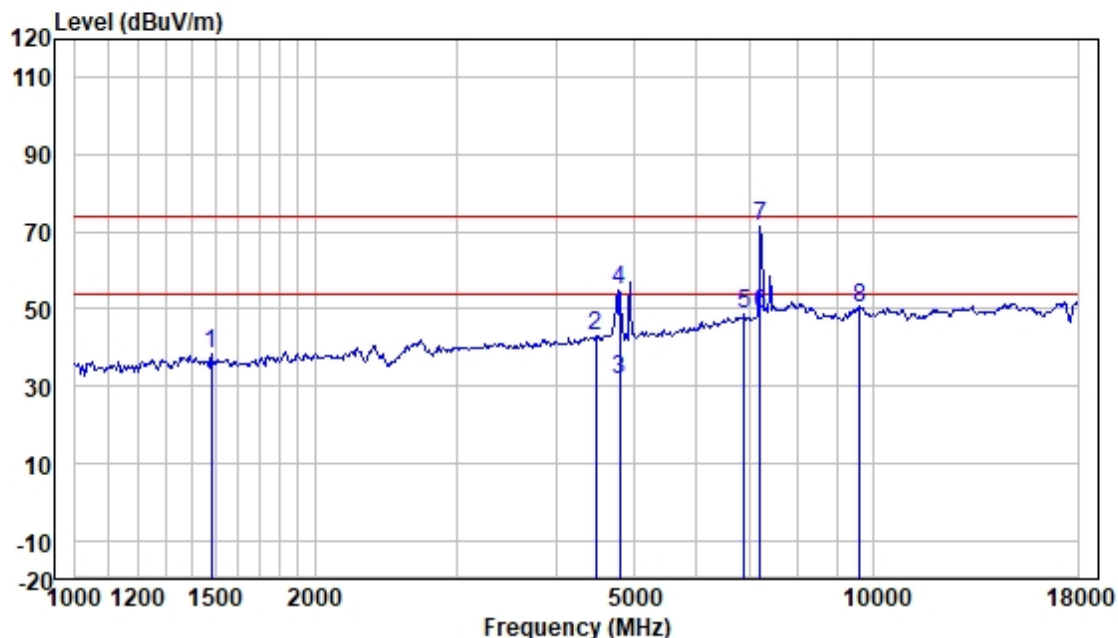
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m 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.



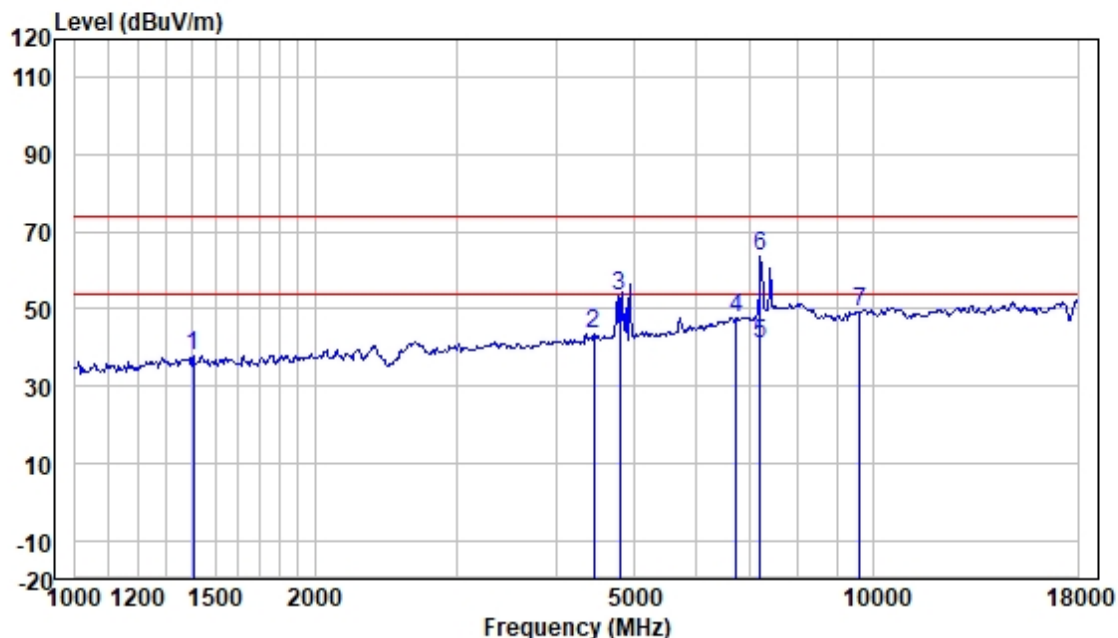
Test Mode: 00; Polarity: Vertical;Channel:Low



	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	1481.55	48.20	25.89	2.69	38.37	38.41	74.00	-35.59	VERTICAL	peak
2	4482.15	45.03	30.90	4.62	37.44	43.11	74.00	-30.89	VERTICAL	peak
3	4804.00	32.86	31.51	4.81	37.38	31.80	54.00	-22.20	VERTICAL	Average
4	4804.00	55.97	31.51	4.81	37.38	54.91	74.00	-19.09	VERTICAL	peak
5	6874.91	44.76	35.04	5.83	37.14	48.49	74.00	-25.51	VERTICAL	peak
6	7206.00	44.03	35.80	5.93	37.17	48.59	54.00	-5.41	VERTICAL	Average
7	7206.00	67.13	35.80	5.93	37.17	71.69	74.00	-2.31	VERTICAL	peak
8	9608.00	46.64	38.70	7.04	41.87	50.51	74.00	-23.49	VERTICAL	peak



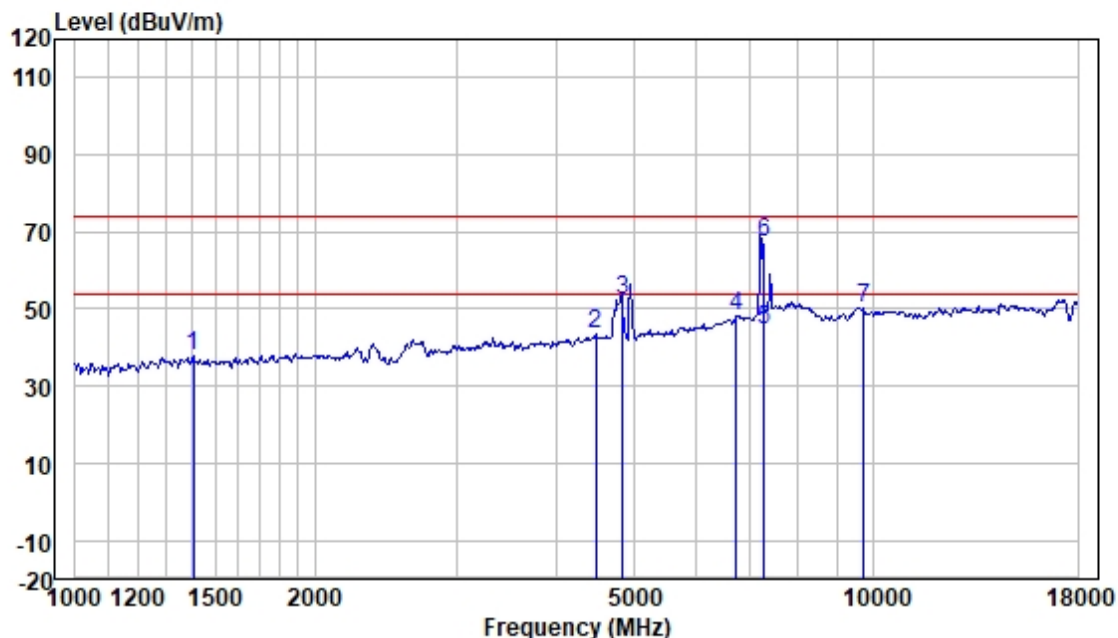
Test Mode: 00; Polarity: Horizontal;Channel:Low



	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	1406.44	47.86	25.80	2.66	38.47	37.85	74.00	-36.15	HORIZONTAL	peak
2	4456.32	45.46	30.87	4.61	37.45	43.49	74.00	-30.51	HORIZONTAL	peak
3	4804.00	54.27	31.51	4.81	37.38	53.21	74.00	-20.79	HORIZONTAL	peak
4	6717.76	44.54	34.64	5.75	37.12	47.81	74.00	-26.19	HORIZONTAL	peak
5	7206.00	36.15	35.80	5.93	37.17	40.71	54.00	-13.29	HORIZONTAL	Average
6	7206.00	59.25	35.80	5.93	37.17	63.81	74.00	-10.19	HORIZONTAL	peak
7	9608.00	45.47	38.70	7.04	41.87	49.34	74.00	-24.66	HORIZONTAL	peak



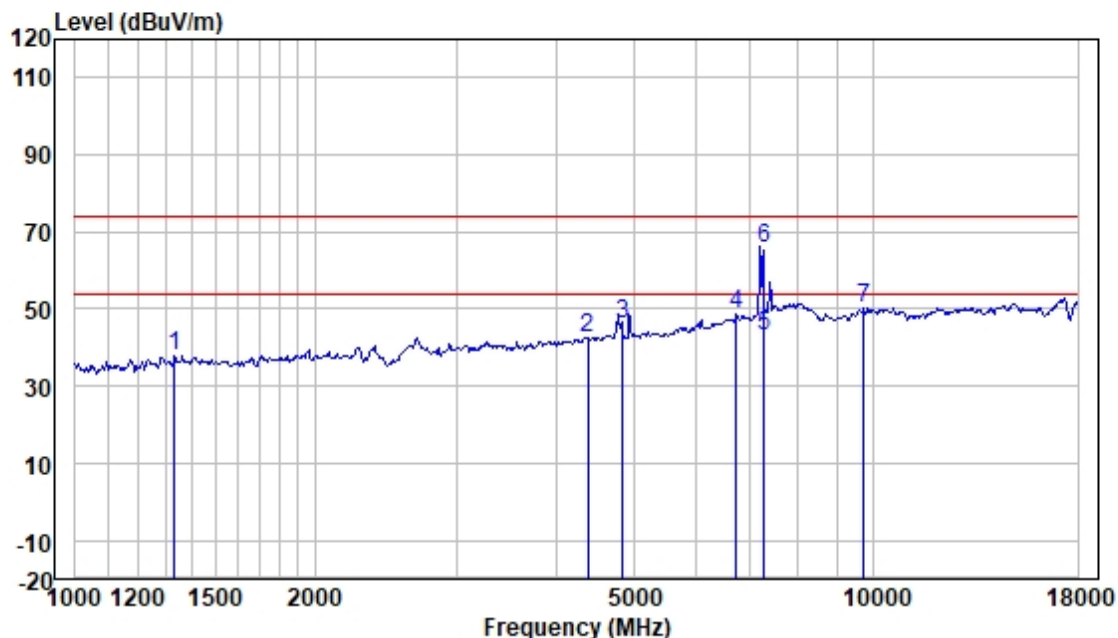
Test Mode: 00; Polarity: Vertical; Channel: middle



	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	1406.44	47.84	25.80	2.66	38.47	37.83	74.00	-36.17	VERTICAL	peak
2	4482.15	45.23	30.90	4.62	37.44	43.31	74.00	-30.69	VERTICAL	peak
3	4852.00	53.34	31.59	4.84	37.36	52.41	74.00	-21.59	VERTICAL	peak
4	6717.76	45.06	34.64	5.75	37.12	48.33	74.00	-25.67	VERTICAL	peak
5	7278.00	39.39	36.14	5.97	37.17	44.33	54.00	-9.67	VERTICAL	Average
6	7278.00	62.49	36.14	5.97	37.17	67.43	74.00	-6.57	VERTICAL	peak
7	9704.00	46.14	38.79	7.08	41.99	50.02	74.00	-23.98	VERTICAL	peak



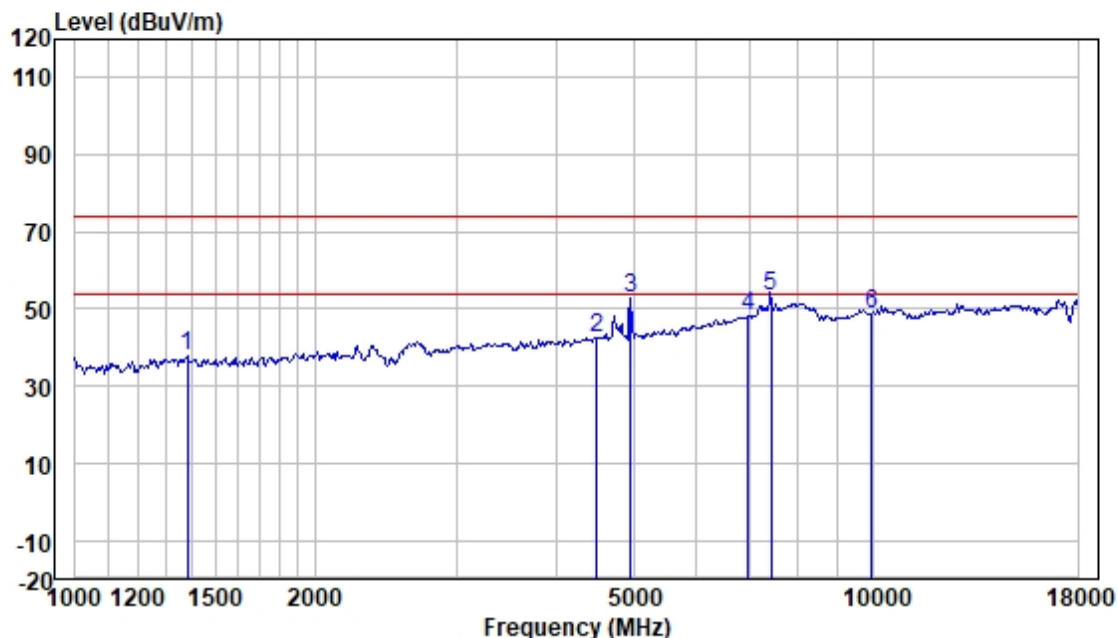
Test Mode: 00; Polarity: Horizontal; Channel: middle



	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	1335.14	48.04	25.68	2.62	38.55	37.79	74.00	-36.21	HORIZONTAL	peak
2	4379.70	44.78	30.76	4.60	37.46	42.68	74.00	-31.32	HORIZONTAL	peak
3	4852.00	47.29	31.59	4.84	37.36	46.36	74.00	-27.64	HORIZONTAL	peak
4	6717.76	45.39	34.64	5.75	37.12	48.66	74.00	-25.34	HORIZONTAL	peak
5	7278.00	37.97	36.14	5.97	37.17	42.91	54.00	-11.09	HORIZONTAL	Average
6	7278.00	61.07	36.14	5.97	37.17	66.01	74.00	-7.99	HORIZONTAL	peak
7	9704.00	46.18	38.79	7.08	41.99	50.06	74.00	-23.94	HORIZONTAL	peak



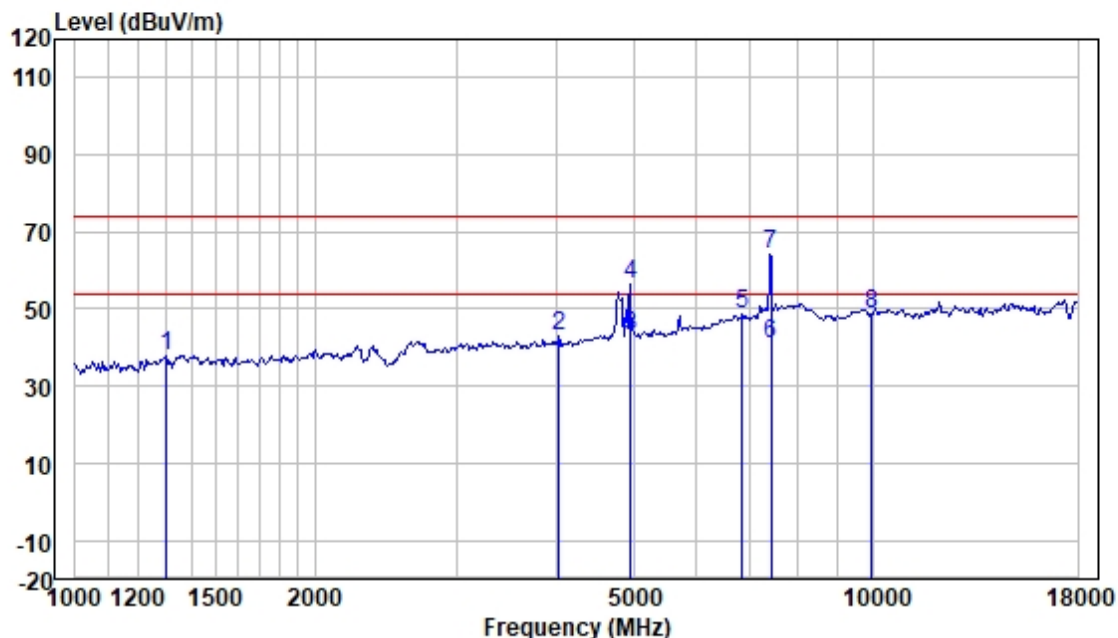
Test Mode: 00; Polarity: Vertical; Channel: Horizontal



	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	1382.26	48.05	25.77	2.65	38.51	37.96	74.00	-36.04	VERTICAL	peak
2	4495.13	44.38	30.91	4.62	37.44	42.47	74.00	-31.53	VERTICAL	peak
3	4960.00	53.57	31.74	4.89	37.32	52.88	74.00	-21.12	VERTICAL	peak
4	6954.85	44.46	35.17	5.86	37.14	48.35	74.00	-25.65	VERTICAL	peak
5	7440.00	47.86	36.57	6.02	37.18	53.27	74.00	-20.73	VERTICAL	peak
6	9920.00	44.74	39.07	7.19	42.16	48.84	74.00	-25.16	VERTICAL	peak



Test Mode: 00; Polarity: Vertical; Channel: High



	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	1304.62	48.14	25.61	2.59	38.58	37.76	74.00	-36.24	HORIZONTAL	peak
2	4039.21	45.96	30.04	4.51	37.50	43.01	74.00	-30.99	HORIZONTAL	peak
3	4960.00	43.90	31.74	4.89	37.32	43.21	54.00	-10.79	HORIZONTAL	Average
4	4960.00	57.07	31.74	4.89	37.32	56.38	74.00	-17.62	HORIZONTAL	peak
5	6835.28	44.92	34.96	5.81	37.13	48.56	74.00	-25.44	HORIZONTAL	peak
6	7440.00	35.53	36.57	6.02	37.18	40.94	54.00	-13.06	HORIZONTAL	Average
7	7440.00	58.63	36.57	6.02	37.18	64.04	74.00	-9.96	HORIZONTAL	peak
8	9920.00	44.43	39.07	7.19	42.16	48.53	74.00	-25.47	HORIZONTAL	peak



7.5 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
 Test Method: ANSI C63.10 (2020) Section 6.9
 Test Engineer: Pank Feng

7.5.1 E.U.T. Operation

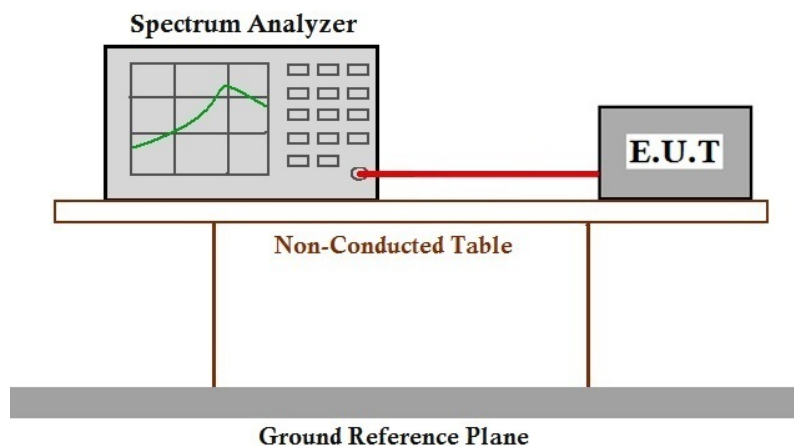
Operating Environment:

Temperature: 23.1 °C Humidity: 50.3 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

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

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data



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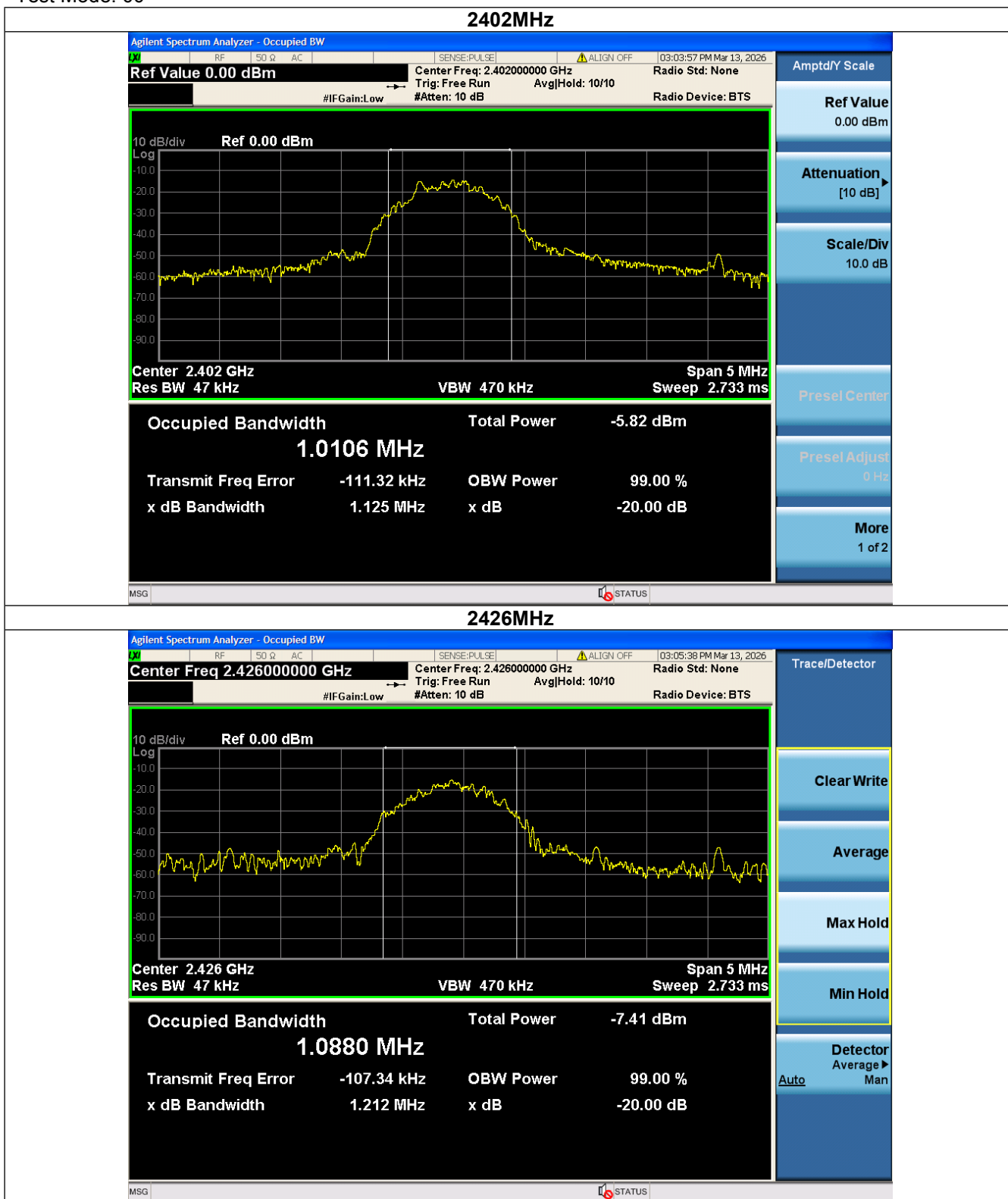
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Test Mode: 00





8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR260100003002



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9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2601000030HS

- End of the Report -



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