

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230500006801

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TEST REPORT

Application No.: FYCR2305000068AT

Applicant: ASUSTeK COMPUTER INC.

Address of Applicant: 1F., No. 15, Lide Rd., Beitou Dist., Taitei City 112 Taiwan

Manufacturer: ASUSTeK COMPUTER INC.

Address of Manufacturer: 1F., No. 15, Lide Rd., Beitou Dist., Taitei City 112 Taiwan

Factory: Dongguan Soai Electronic Technology Co., LTD

Address of Factory: 3 Huayu road, Changlong village, Huangjiang town, Dongguan city,

Guangdong province

Equipment Under Test (EUT):

EUT Name: Wireless keyboard

Model No.: CW101 Trade Mark: ASUS

FCC ID: MSQ-KB-CW101

Standard(s): 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2023-05-05

Date of Test: 2023-05-06 to 2023-05-30

Date of Issue: 2023-05-31

Test Result: Pass*

Winkey Wang

Winkey Wang

EMC Technical Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record					
Version	Version Chapter Date Modifier Re					
01		2023-05-31		Original		

Authorized for issue by:		
	Tree Zhan	
	Tree Zhan/Project Engineer	
	WinkeyWarg	
	Winkey Wang/Reviewer	



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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		
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass		
Field Strength of the Fundamental Signal (15.249(a))		ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass		
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) 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 (2013) 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 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass		



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4 General Information

4.1 Details of E.U.T.

Power supply:	Input 1.5Vdc via 'AAA' battery
Operation Frequency:	2402-2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	-0.86dBi

Remark: The information in this section is provided by the applicant or manufacturer, CCS 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	
20dB Bandwidth	± 0.3%	
Field Strength of the Fundamental Signal (15.249(a))	± 5.8dB (Below 1GHz),± 4.8dB (Above 1GHz)	
Restricted Band Around Fundamental Frequency	± 5.8dB (Below 1GHz),± 4.8dB (Above 1GHz)	
Radiated Emissions Below 1GHz	± 5.8dB	
Radiated Emissions Above 1GHz	± 4.8dB (1-18GHz); ± 4.6dB (18- 40GHz)	

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark,Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC -Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

20dB Bandwidth						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2023/3/21	2024/3/20	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	

Field Strength of the Fundamental Signal (15.249(a))							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12		
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24		
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11		
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11		
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2023/3/20	2024/3/19		
Coaxial Cable	CCS	N/A	SEM035-01	2023/5/15	2024/5/14		
Coaxial Cable	CCS	N/A	SEM035-02	2023/5/15	2024/5/14		
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2023/3/30	2024/3/29		
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2023/3/31	2024/3/30		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		

Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2023/3/20	2024/3/19
Coaxial Cable	CCS	N/A	SEM035-01	2023/5/15	2024/5/14
Coaxial Cable	CCS	N/A	SEM035-02	2023/5/15	2024/5/14
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2023/3/30	2024/3/29



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Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2023/3/31	2024/3/30
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A

Radiated Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-01	2023/5/15	2024/5/14
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A

Radiated Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2023/3/20	2024/3/19
Coaxial Cable	CCS	N/A	SEM035-03	2023/5/15	2024/5/14
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2023/3/30	2024/3/29
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2023/3/31	2024/3/30
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A

General used equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022/7/12	2023/7/11	
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022/7/12	2023/7/11	
Barometer	DUMAI	DYM3	SEM002-24	2022/7/12	2023/7/11	



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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 -0.86dBi.

Antenna location: Refer to Internal photos



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

7.1.1 E.U.T. Operation

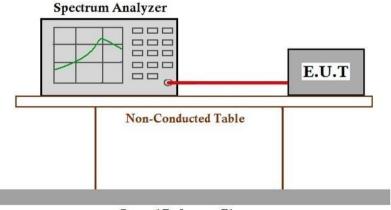
Operating Environment:

Temperature: 23.5 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

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

7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	2.107	Pass
Middle	2.113	Pass
Highest	2.130	Pass



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7.2 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 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

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

Average value:

	Average value=Peak value + PDCF
Calculate Formula:	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
	Ton time =0.11ms
Test data:	T period =3.04ms
	Duty cycle=2.71%
	PDCF value= -31.34dB



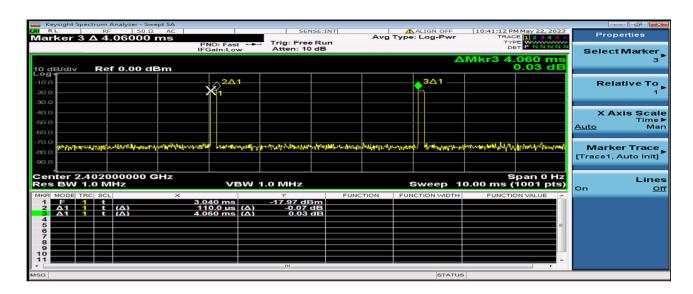
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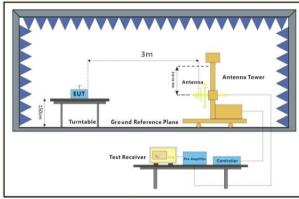
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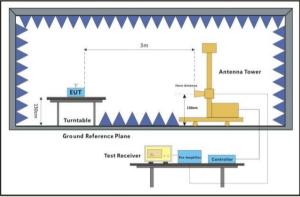
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7.2.3 Test Setup Diagram





30MHz-1GHz Above 1GHz



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7.2.4 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



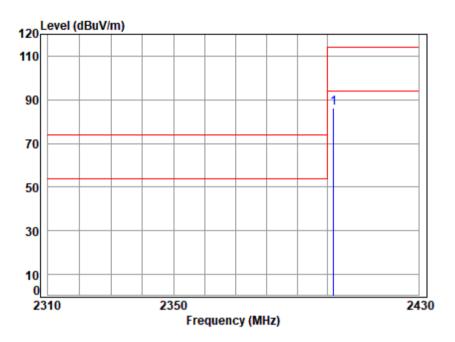


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00068AT

Mode : 2402 Field Strengh

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Limit Remark Line dBuV dBuV/m dBuV/m MHz dΒ dB/m dΒ dB

1 2402.000 5.21 27.20 32.50 86.15 86.06 114.00 -27.94 Peak



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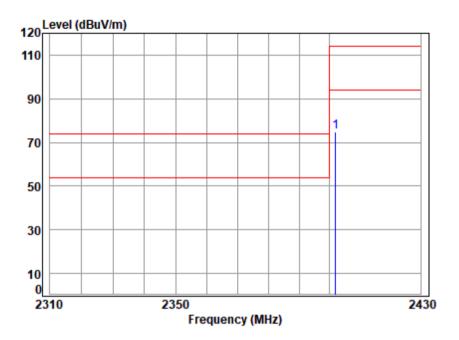


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 00068AT

2402,000

1

Mode : 2402 Field Strengh

Cable Ant Preamp Read Limit Over

Freq Loss Factor Factor Level Level Line Limit Remark

5.21 27.20 32.50 75.06 74.97 114.00 -39.03 Peak

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB



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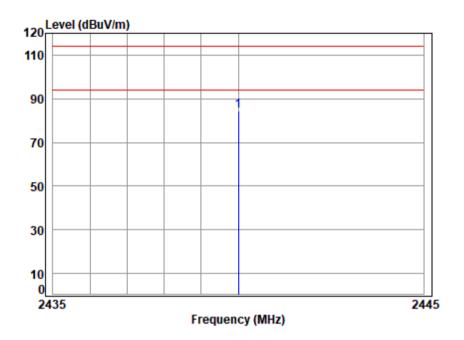


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00068AT

Mode : 2440 Field Strengh

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Limit Remark Line dBuV dBuV/m dBuV/m MHz dΒ dB/m dΒ dB





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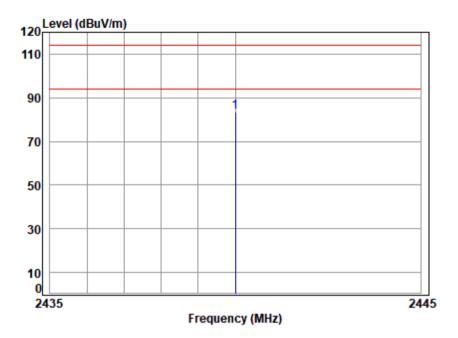


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 00068AT

Mode : 2440 Field Strengh

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Limit Remark Line dBuV dBuV/m dBuV/m MHz dΒ dB/m dΒ dB

1 2440.000 5.24 27.20 32.50 83.47 83.41 114.00 -30.59 Peak



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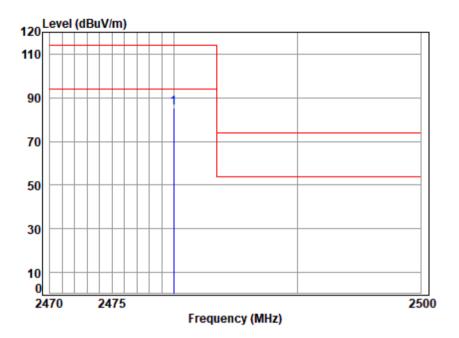


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber Condition: 3m VERTICAL

Job No : 00068AT

Mode : 2480 Field Strengh

Cable Ant Preamp Limit 0ver Read Freq Loss Factor Factor Level Level Limit Remark Line dBuV dBuV/m dBuV/m MHz dB dB/m dΒ dB

1 2480.000 5.27 27.32 32.50 85.06 85.15 114.00 -28.85 Peak



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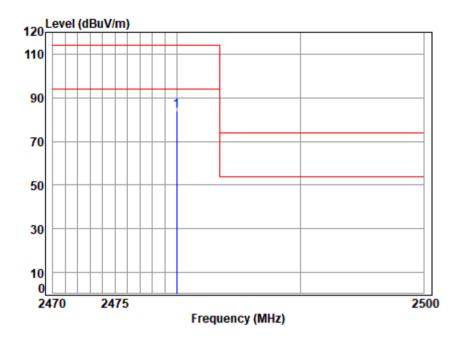


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00068AT

Mode : 2480 Field Strengh

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Limit Remark Line dBuV dBuV/m dBuV/m MHz dB dB/m dΒ dB

1 2480.000 5.27 27.32 32.50 83.86 83.95 114.00 -30.05 Peak



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7.3 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 (2013) Section 6.10.5

Measurement Distance: 3m

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.

7.3.1 E.U.T. Operation

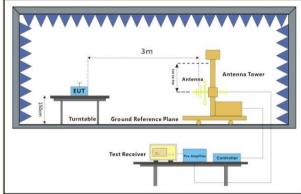
Operating Environment:

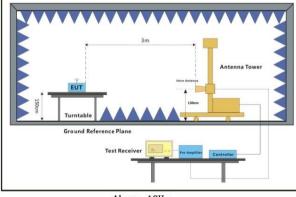
Temperature: 23.6 °C Humidity: 52.9 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

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

7.3.3 Test Setup Diagram





30MHz-1GHz Above 10



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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



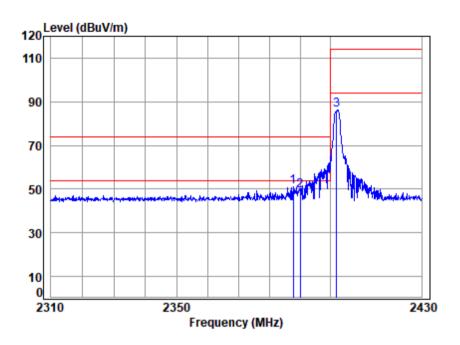


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00068AT

1 2 3

Mode : 2402 Bandedge

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2387.791	5.20	27.18	32.50	51.44	51.32	74.00	-22.68	Peak
2390.000	5.21	27.18	32.50	49.24	49.13	74.00	-24.87	Peak
2/02 000	5 21	27 20	32 50	86 15	86 86	11/ 00	-27 9/	Poak



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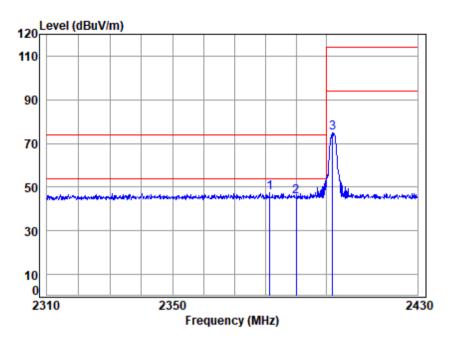


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 00068AT

Mode : 2402 Bandedge

1 2 3

		0						
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2381.390	5.20	27.16	32.50	47.46	47.32	74.00	-26.68	Peak
2390.000	5.21	27.18	32.50	45.79	45.68	74.00	-28.32	Peak
2402.000	5.21	27.20	32.50	75.06	74.97	114.00	-39.03	Peak



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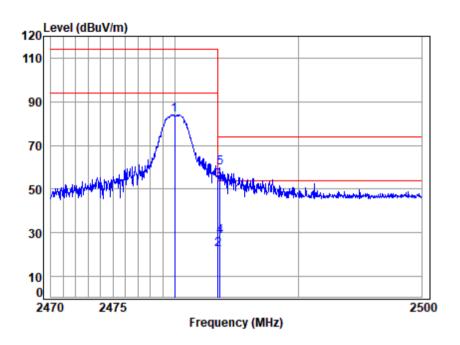


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00068AT

Mode : 2480 Bandedge

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2480.000	5.27	27.32	32.50	83.86	83.95	114.00	-30.05	Peak
2	2483.500	5.28	27.33	32.50	22.32	22.43	54.00	-31.57	Average
3	2483.500	5.28	27.33	32.50	53.66	53.77	74.00	-20.23	Peak
4	2483.665	5.28	27.34	32.50	28.27	28.39	54.00	-25.61	Average
5	2483.665	5.28	27.34	32.50	59.61	59.73	74.00	-14.27	Peak



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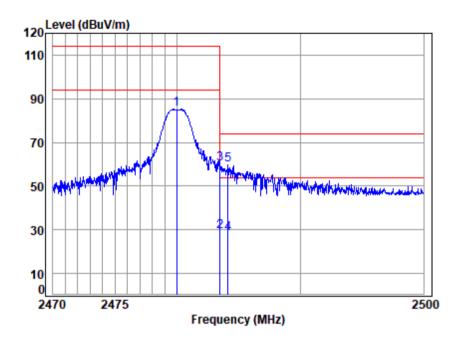


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 00068AT

Mode : 2480 Bandedge

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2480.000	5.27	27.32	32.50	85.06	85.15	114.00	-28.85	Peak
2	2483.500	5.28	27.33	32.50	28.91	29.02	54.00	-24.98	Average
3	2483.500	5.28	27.33	32.50	60.25	60.36	74.00	-13.64	Peak
4	2484.145	5.28	27.34	32.50	28.20	28.32	54.00	-25.68	Average
5	2484.145	5.28	27.34	32.50	59.54	59.66	74.00	-14.34	Peak



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7.4 Radiated Emissions Below 1GHz

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

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement 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

7.4.1 E.U.T. Operation

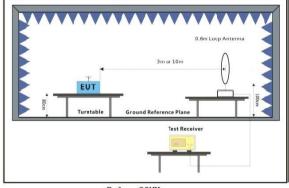
Operating Environment:

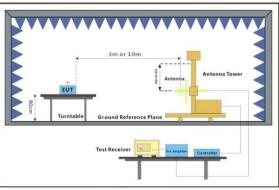
Temperature: 22.4 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

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

7.4.3 Test Setup Diagram





Below 30MHz

30 MHz - 1 GHz



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7.4.4 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 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. 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 above 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.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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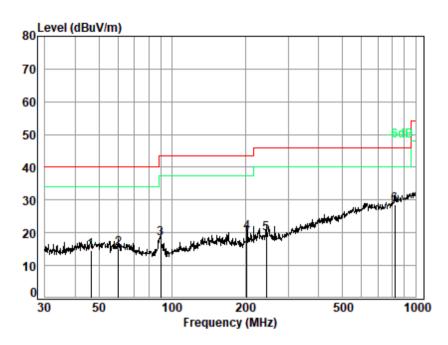


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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00068AT

Mode : 00

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	46.340	0.22	17.27	25.87	22.86	14.48	40.00	-25.52	QP
2	60.280	0.27	16.70	25.84	24.12	15.25	40.00	-24.75	QΡ
3	89.905	0.67	13.60	25.81	29.94	18.40	43.50	-25.10	QP
4	202.810	0.70	15.25	25.35	29.47	20.07	43.50	-23.43	QP
5	243.377	0.83	16.54	25.23	27.51	19.65	46.00	-26.35	QΡ
6	821 710	2 45	27 63	26 64	25 10	28 5/	16 99	-17 /6	OΡ



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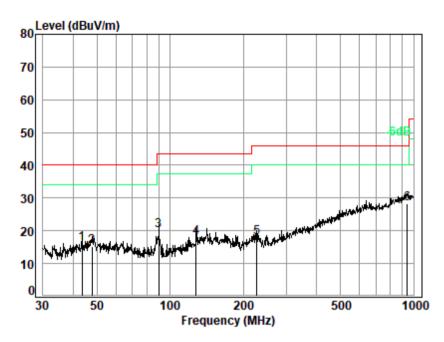


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Test Mode: 00; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL Job No : 00068AT

Mode : 00

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	43.506	0.22	17.28	25.87	24.39	16.02	40.00	-23.98	QP
2	47.826	0.22	17.27	25.86	23.68	15.31	40.00	-24.69	QP
3	89.905	0.67	13.60	25.81	31.58	20.04	43.50	-23.46	QP
4	128.113	0.98	16.50	25.64	26.08	17.92	43.50	-25.58	QP
5	226.894	0.78	15.99	25.28	26.45	17.94	46.00	-28.06	QP
6	942.131	2.21	29.36	26.33	23.10	28.34	46.00	-17.66	OP.



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7.5 Radiated Emissions Above 1GHz

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

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

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

7.5.1 E.U.T. Operation

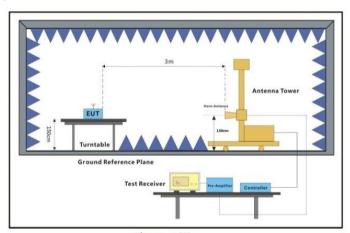
Operating Environment:

Temperature: 23.6 °C Humidity: 52.9 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

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

7.5.3 Test Setup Diagram



Above 1GHz



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7.5.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above 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.
- 3. 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.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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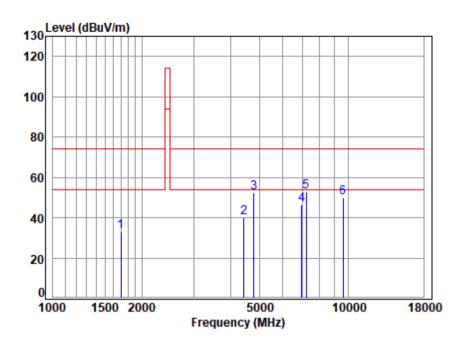


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00068AT Mode : 2402 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	4.24	24.99	52.96	57.05	33.32	74.00	-40.68	peak
2	4443.453	7.57	30.07	52.94	55.56	40.26	74.00	-33.74	peak
3	4804.000	8.32	30.81	53.05	66.55	52.63	74.00	-21.37	peak
4	6954.852	8.25	35.71	53.47	55.76	46.25	74.00	-27.75	peak
5	7206.000	8.33	35.81	53.52	62.08	52.70	74.00	-21.30	peak
6	9608 000	11 71	37 58	53 58	54 20	49 91	74 00	-24 09	neak



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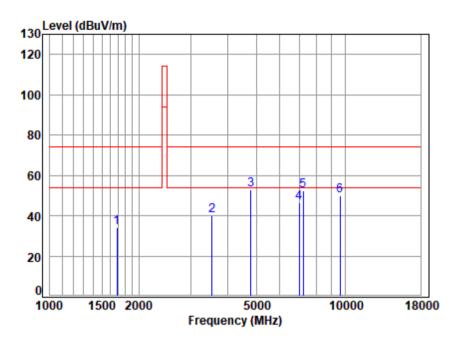


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 00068AT Mode : 2402 TX RSE

loue	. 2402	וא ועסו	-						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	4.22	24.95	52.95	57.75	33.97	74.00	-40.03	peak
2	3546.577	7.22	28.79	52.93	56.89	39.97	74.00	-34.03	peak
3	4804.000	8.32	30.81	53.05	66.80	52.88	74.00	-21.12	peak
4	6995.172	8.29	35.79	53.50	55.70	46.28	74.00	-27.72	peak
5	7206.000	8.33	35.81	53.52	61.78	52.40	74.00	-21.60	peak
6	9608.000	11.71	37.58	53.58	54.18	49.89	74.00	-24.11	peak



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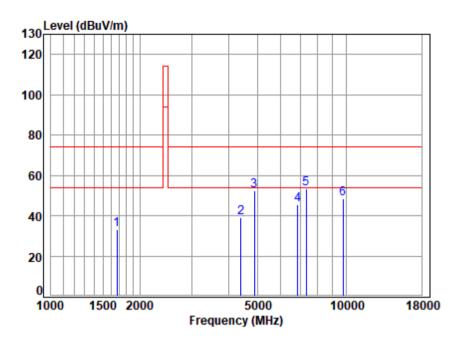


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00068AT Mode : 2440 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	4.19	24.89	52.95	57.14	33.27	74.00	-40.73	peak
2	4405.090	7.60	29.92	52.93	54.54	39.13	74.00	-34.87	peak
3	4880.000	8.50	30.96	53.07	65.77	52.16	74.00	-21.84	peak
4	6855.063	8.15	35.50	53.40	55.37	45.62	74.00	-28.38	peak
5	7320.000	8.35	36.14	53.53	62.25	53.21	74.00	-20.79	peak
6	9760 000	11 74	37 62	53 43	52 64	48 57	74 99	-25 43	neak



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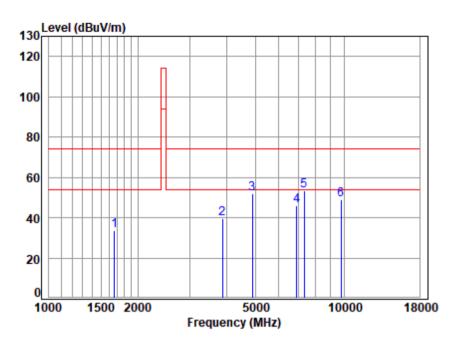


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 00068AT Mode : 2440 TX RSE

oue	. 2440	וכוו או	-							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	d Bu V/m	dB		
1	1667.951	4.18	24.87	52.94	57.50	33.61	74.00	-40.39	peak	
2	3867.831	7.67	29.17	52.84	55.49	39.49	74.00	-34.51	peak	
3	4880.000	8.50	30.96	53.07	65.60	51.99	74.00	-22.01	peak	
4	6914.763	8.21	35.56	53.44	55.57	45.90	74.00	-28.10	peak	
5	7320.000	8.35	36.14	53.53	62.66	53.62	74.00	-20.38	peak	
6	9760.000	11.74	37.62	53.43	52.83	48.76	74.00	-25.24	peak	



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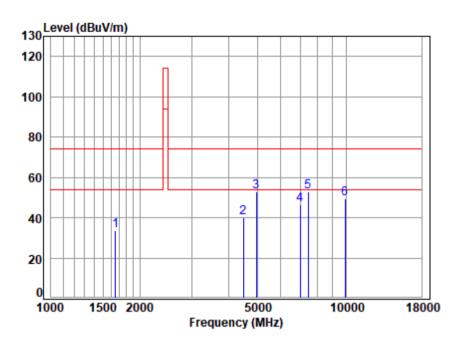


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00068AT Mode : 2480 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1653.550	4.14	24.81	52.94	57.77	33.78	74.00	-40.22	peak
2	4482.150	7.55	30.16	52.95	55.29	40.05	74.00	-33.95	peak
3	4960.000	8.69	31.24	53.09	66.13	52.97	74.00	-21.03	peak
4	6974.982	8.27	35.75	53.48	55.86	46.40	74.00	-27.60	peak
5	7440.000	8.37	36.38	53.55	61.92	53.12	74.00	-20.88	peak
6	9920.000	11.77	38.24	53.28	52.79	49.52	74.00	-24.48	peak



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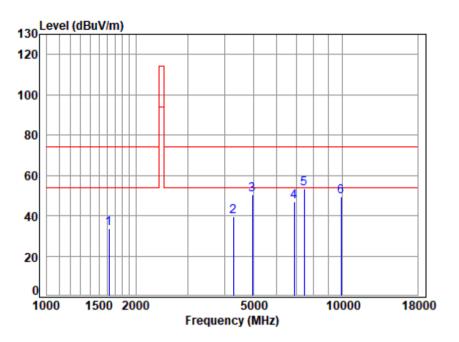


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 00068AT Mode : 2480 TX RSE

ue	. 2400	1 1 1/2	-							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1605 101	1 00	24 90	E2 02	E7 00	22 06	74.00	10 11	noale	
1	1625.121	4.00	24.00	52.92	57.90	33.00	74.00	-40.14	реак	
2	4279.589	7.67	29.74	52.89	55.26	39.78	74.00	-34.22	peak	
3	4960.000	8.69	31.24	53.09	63.45	50.29	74.00	-23.71	peak	
4	6874.906	8.17	35.50	53.42	56.64	46.89	74.00	-27.11	peak	
5	7440.000	8.37	36.38	53.55	62.22	53.42	74.00	-20.58	peak	
6	9920.000	11.77	38.24	53.28	52.49	49.22	74.00	-24.78	peak	



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2305000068AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for FYCR2305000068AT.

- End of the Report -



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