

Report No.: FYCR220300001602

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TEST REPORT

Application No.: FYCR2203000016AT

Applicant: SHANTOU CHENAO WANTENG TOYS CO., LTD

Address of Applicant: NO. 3, MEICHENG ROAD, GUANGYI STREET, CHENGHAI DISTRICT,

SHANTOU CITY, GUANGDONG PROVINCE 515800 China

Manufacturer: SHANTOU CHENAO WANTENG TOYS CO., LTD

Address of Manufacturer: NO. 3, MEICHENG ROAD, GUANGYI STREET, CHENGHAI DISTRICT,

SHANTOU CITY, GUANGDONG PROVINCE 515800 China

Equipment Under Test (EUT):

EUT Name: SIX-WHEEL STUNT CAR(CROSSLANDER)

Model No.: WT2021A, WT2021B, WT2021A(RC45), WT2021C, WT2021D, WT2021E,

WT2021F, WT2021G, WT2020, WT2020-1, WT2020-2, WT2020-3,

WT2020-4, WT2020-5, WT2020-6, WT2020-7, WT2020-8

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: 2AYRQWT2021A

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

Date of Receipt: 2022-03-10

Date of Test: 2022-04-13 to 2022-04-25

Date of Issue: 2022-04-28

Test Result: Pass*

Kidd Yang EMC Laboratory Manager



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



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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2022-04-28		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 Resul						
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))	47 CFR Part 15,	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass		
Restricted Band Around Fundamental Frequency	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		ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass		

Declaration of EUT Family Grouping:

Model No.: WT2021A, WT2021B, WT2021A(RC45), WT2021C, WT2021D, WT2021E, WT2021F, WT2021G, WT2020-1, WT2020-2, WT2020-3, WT2020-4, WT2020-5, WT2020-6, WT2020-7, WT2020-8

Only the model WT2021A was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only the difference being of input plug, appearance and model No..



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9 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)43



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4 General Information

4.1 Details of E.U.T.

Power supply:	3V DC (1.5V x 2 "AAA" Size Batteries) for TX
Operation Frequency:	2415MHz to 2475MHz
Modulation Type:	GFSK
Number of Channels:	61
Channel Spacing:	1MHz
Sample Type:	Portable production
Antenna Type:	Integral
Antenna Gain:	0dBi

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

- <u></u>	
Test Item	Measurement Uncertainty
20dB Bandwidth	± 0.3%
Field Strength of the Fundamental Signal (15.249(a))	± 3.1dB (Below 1GHz),± 4.4dB (Above 1GHz)
Restricted Band Around Fundamental Frequency	± 3.1dB (Below 1GHz),± 4.4dB (Above 1GHz)
Radiated Emissions Below 1GHz	± 3.1dB (Below 1GHz)
Radiated Emissions Above 1GHz	± 4.4dB (Above 1GHz)

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
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
MXA Signal Analyzer(10Hz- 26.5GHz)	Agilent	N9020A	SEM004-20	2021/7/13	2022/7/12
Signal Generator(9kHz- 40GHz)	Agilent	N5173B	SEM006-05	2021/7/13	2022/7/12
ESG Vector Signal Generator(250kHz- 6GHz)	Agilent	E4438C	SEM006-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2021/7/13	2022/7/12
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2021/7/13	2022/7/12
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2021/7/13	2022/7/12
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2021/7/13	2022/7/12
Attenuator(18GHz, 20dB, 2W)	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021/7/13	2022/7/12

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	2022/7/12	
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24	
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25	
Loop Antenna(9kHz- 30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25	
MXE EMI receiver(20Hz- 8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12	
Pre-amplifier (0.1- 1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12	
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10	
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25	
Double-ridged waveguide horn (1- 18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24	



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Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz- 18GHz)	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz- 26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12

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	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz- 30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz- 8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1- 1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1- 18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz- 18GHz)	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz- 26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12



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Radiated Emissions Bel	Radiated Emissions Below 1GHz								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
3m Anechoic Chamber	nechoic Chamber CRT		N/A SEM001-13		2022/7/12				
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24				
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25				
Loop Antenna(9kHz- 30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25				
MXE EMI receiver(20Hz- 8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12				
Pre-amplifier (0.1- 1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12				
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10				
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25				
Double-ridged waveguide horn (1- 18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24				
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12				
Low Noise Amplifier(100MHz- 18GHz)	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2021/7/13	2022/7/12				
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12				
Pre-amplifier(18GHz- 26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12				



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Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Anechoic Chamber CRT		N/A	SEM001-13	2021/7/13	2022/7/12
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna(150MHz-1GHz)	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna(9kHz- 30MHz)	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver(20Hz- 8.4GHz)	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier (0.1- 1.3GHz)	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna (1-18GHz)	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn (1- 18GHz)	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer(20Hz-43GHz)	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier(100MHz- 18GHz)	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2021/7/13	2022/7/12
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier(18GHz- 26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12

General used equipment									
Equipment Manufacturer Model No Inventory No Cal Date Cal D									
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2021-07-13	2022-07-12				
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2021-07-13	2022-07-12				
Barometer	DUMAI	DYM3	SEM002-24	2021-07-13	2022-07-12				



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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.

6.1.2 Conclusion

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

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

Limit: N/A

7.1.1 E.U.T. Operation

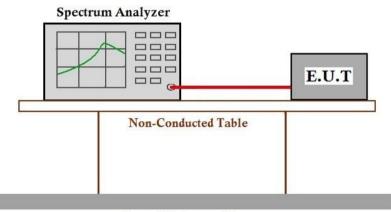
Operating Environment:

Temperature: 24.7 °C Humidity: 55.3 % 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	1.501	Pass		
Middle	1.507	Pass		
Highest	1.507	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.

Average value:

	Average value=Peak value + PDCF
Calculate Formula:	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
	Ton time =0.963ms
Took data.	T period =10.27ms
Test data:	Duty cycle=9.377%
	PDCF value= -20.56dB



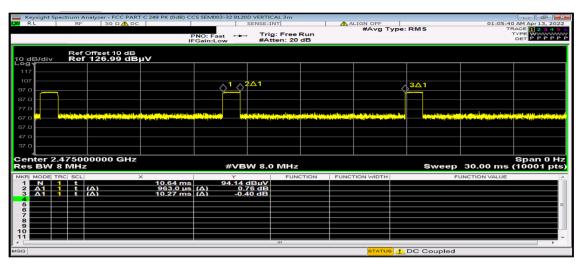
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7.2.1 E.U.T. Operation

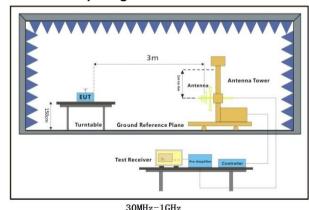
Operating Environment:

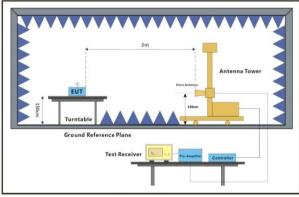
Temperature: 21.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

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.

7.2.3 Test Setup Diagram





OMHz-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

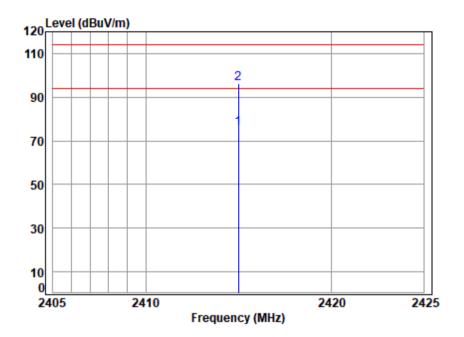




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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00016AT

2 p 2415.000

Mode : 2415 Field Strengh

Ant Preamp Cable Limit 0ver Read Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m dB 1 a 2415.000 5.07 27.21 46.53 89.94 75.69 94.00 -18.31 Average

5.07 27.21 46.53 110.50 96.25 114.00 -17.75 peak



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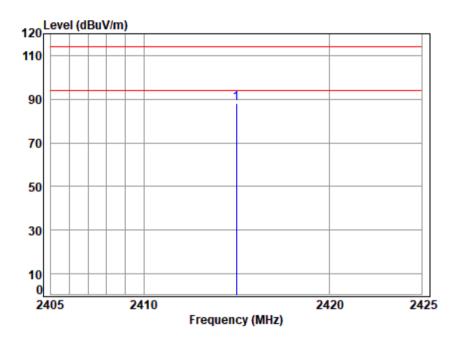
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 00016AT

Mode : 2415 Field Strengh

Cable Ant Preamp Read Limit Over

Freq Loss Factor Factor Level Level Line Limit Remark

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

1 p 2415.000 5.07 27.21 46.53 102.43 88.18 114.00 -25.82 peak



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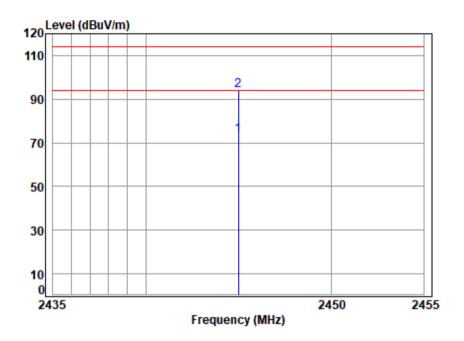
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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00016AT

Mode : 2445 Field Strengh

Ant Preamp Cable Limit 0ver Read Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m dB 1 a 2445.000 5.09 27.28 46.55 87.70 73.52 94.00 -20.48 Average 2 p 2445.000 5.09 27.28 46.55 108.26 94.08 114.00 -19.92 peak



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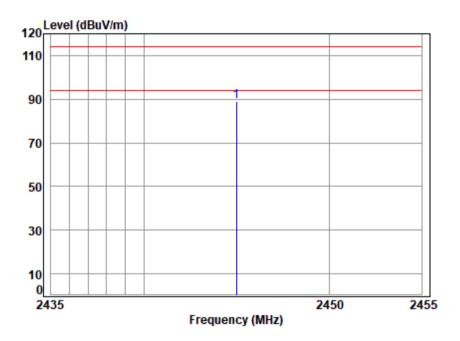
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 00016AT

Mode : 2445 Field Strengh

Cable Ant Preamp Read Limit Over

Freq Loss Factor Factor Level Level Line Limit Remark

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

1 p 2445.000 5.09 27.28 46.55 103.12 88.94 114.00 -25.06 peak



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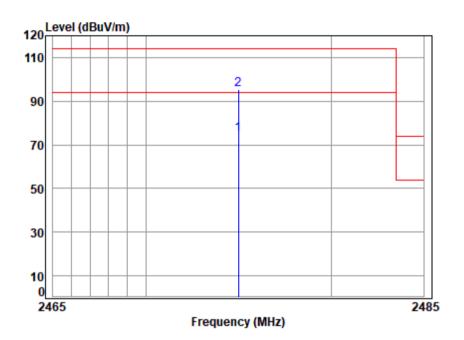
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00016AT

Mode : 2475 Field Strengh

Ant Preamp Cable Limit 0ver Read Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dBuV dBuV/m dBuV/m dB 1 a 2475.000 5.11 27.35 46.56 89.06 74.96 94.00 -19.04 Average 2 p 2475.000 5.11 27.35 46.56 109.62 95.52 114.00 -18.48 peak



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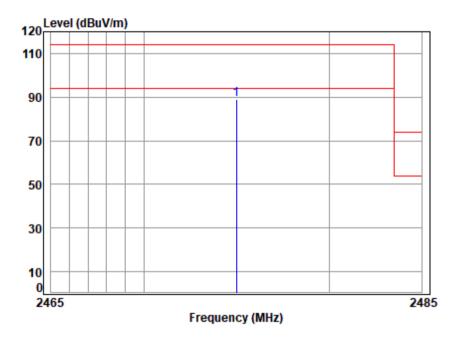
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 00016AT

Mode : 2475 Field Strengh

Cable Ant Preamp Read Limit Over

Freq Loss Factor Factor Level Level Line Limit Remark

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

1 p 2475.000 5.11 27.35 46.56 103.28 89.18 114.00 -24.82 peak

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

2) 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. So, only the above measurement data were shown in the report



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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: 21.6 °C Humidity: 52.3 % 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.



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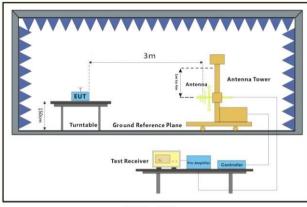
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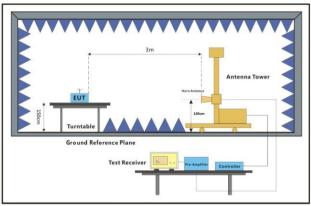


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7.3.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

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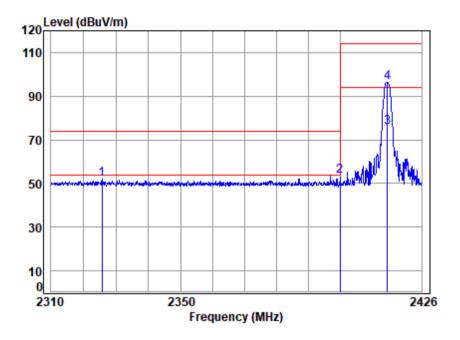
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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00016AT

1 2 3

Mode : 2415 Band edge

-			a cage							
		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		_
	2325.672	5.01	27.01	46.49	66.45	51.98	74.00	-22.02	Peak	
2	2400.000	5.06	27.17	46.52	67.64	53.35	74.00	-20.65	peak	
a	2415.000	5.07	27.21	46.53	89.94	75.69	94.00	-18.31	Average	
ļр	2415.000	5.07	27.21	46.53	110.50	96.25	114.00	-17.75	peak	



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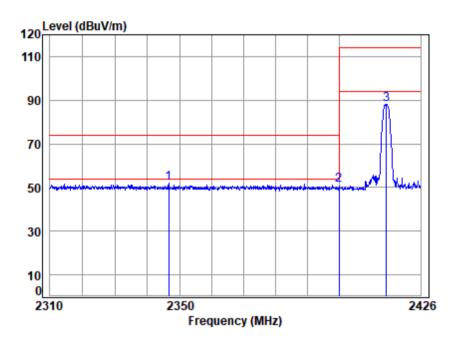
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Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: Low



Site : chamber Condition: 3m VERTICAL Job No : 00016AT

2

3

Mode : 2415 Band edge

Ant Preamp Cable Limit 0ver Read Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 1 p 2346.503 5.02 27.06 46.50 66.31 51.89 74.00 -22.11 Peak 2400.000 5.06 27.18 46.52 65.56 51.28 74.00 -22.72 peak 5.07 27.21 46.53 102.43 88.18 114.00 -25.82 peak 2415.000



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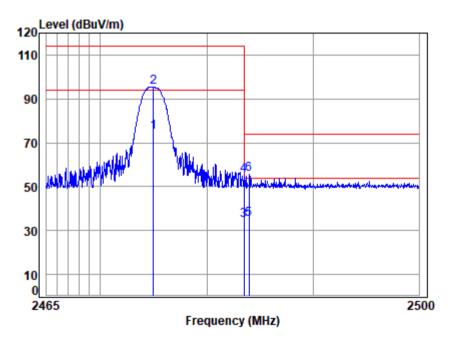
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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00016AT

Mode : 2475 Band edge

		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	2475.0000	5.11	27.35	46.56	89.06	74.96	94.00	-19.04	Average
2	2475.0000	5.11	27.35	46.56	109.62	95.52	114.00	-18.48	peak
3	2483.5000	5.12	27.36	46.57	48.72	34.63	54.00	-19.37	Average
4	2483.5000	5.12	27.36	46.57	69.28	55.19	74.00	-18.81	peak
5	a2483.9790	5.12	27.37	46.57	49.05	34.97	54.00	-19.03	Average
6	P2483.9790	5.12	27.37	46.57	69.61	55.53	74.00	-18.47	Peak



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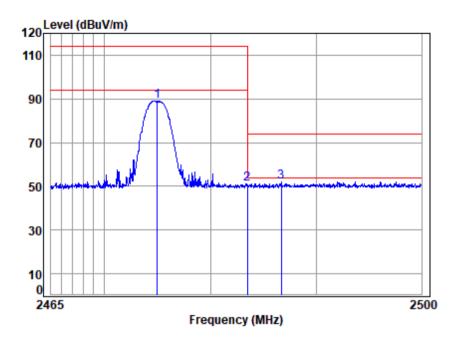
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 00016AT

Mode : 2475 Band edge

	Frea		Ant Factor						Remark
			dB/m						
1	2475.000	5.11	27.35	46.56	103.28	89.18	114.00	-24.82	peak
2	2483.500	5.12	27.37	46.57	65.19	51.11	74.00	-22.89	peak
3 p	2486.712	5.12	27.37	46.57	66.27	52.19	74.00	-21.81	Peak

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) 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. So, only the above measurement data were shown in the report



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7.4 Radiated Emissions

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&6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)		
0.009-0.490	2400/F(kHz)	-	-	300		
0.490-1.705	24000/F(kHz)	-	-	30		
1.705-30	30	-	-	30		
30-88	100	40.0	QP	3		
88-216	150	43.5	QP	3		
216-960	200	46.0	QP	3		
960-1000	500	54.0	QP	3		
Above 1000	500	54.0	AV	3		

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °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.



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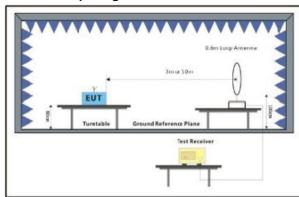
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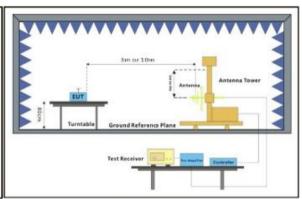


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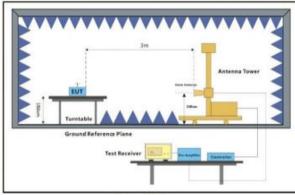
7.4.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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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 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.
- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and 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.
- 4) 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.



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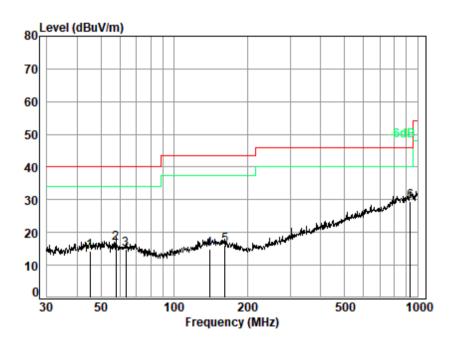


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Below 1GHz

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00016AT

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	45.217	0.21	17.28	25.87	22.61	14.23	40.00	-25.77	QP
2	57.594	0.24	17.05	25.85	25.19	16.63	40.00	-23.37	QP
3	63.313	0.25	16.65	25.84	23.77	14.83	40.00	-25.17	QP
4	139.851	0.91	17.43	25.59	22.08	14.83	43.50	-28.67	QP
5	162.041	0.78	17.14	25.49	23.56	15.99	43.50	-27.51	QP
6 p	935.546	2.13	29.22	26.32	24.42	29.45	46.00	-16.55	QP



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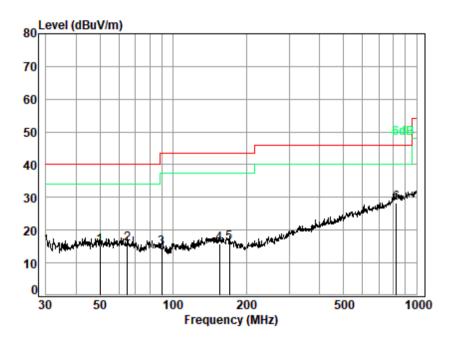
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 00016AT

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	50.057	0.22	17.38	25.86	23.42	15.16	40.00	-24.84	QP
2	64.887	0.25	16.56	25.84	24.93	15.90	40.00	-24.10	QP
3	89.905	0.67	13.61	25.81	26.08	14.55	43.50	-28.95	QP
4	155.364	0.82	17.31	25.52	23.25	15.86	43.50	-27.64	QP
5	170.195	0.72	16.88	25.46	23.99	16.13	43.50	-27.37	QP
6 p	824.597	2.81	27.67	26.55	24.48	28.41	46.00	-17.59	QP



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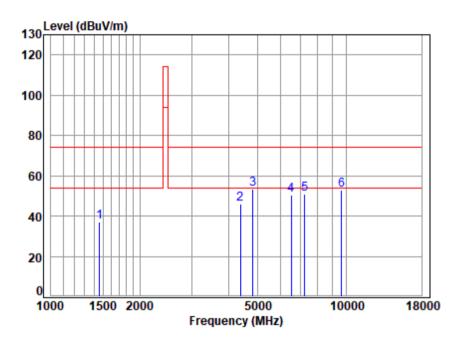


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Above 1GHz

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00016AT

Mode : 2415 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq			Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1460.295	3.70	24.39	46.44	55.49	37.14	74.00	-36.86	Peak
2	4392.376	7.47	30.06	46.30	54.56	45.79	74.00	-28.21	Peak
3 p	4830.000	8.03	31.01	46.81	61.00	53.23	74.00	-20.77	Peak
4	6526.373	7.73	34.67	46.61	54.85	50.64	74.00	-23.36	Peak
5	7245.000	8.31	36.10	46.47	52.96	50.90	74.00	-23.10	Peak
6	9660.000	11.37	37.64	47.17	51.04	52.88	74.00	-21.12	Peak



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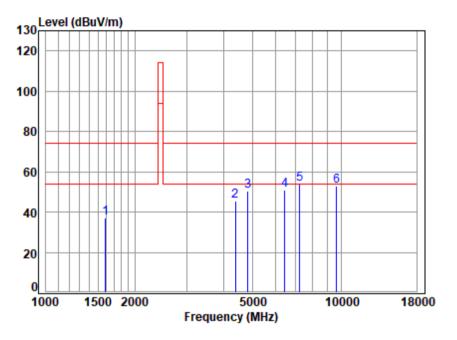
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 00016AT

Mode : 2415 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	1592.571	3.97	24.78	46.40	54.84	37.19	74.00	-36.81	Peak
2	4392.376	7.47	30.06	46.30	54.26	45.49	74.00	-28.51	Peak
3	4830.000	8.03	31.01	46.81	58.40	50.63	74.00	-23.37	Peak
4	6432.732	7.69	34.31	46.59	55.33	50.74	74.00	-23.26	Peak
5 p	7245.000	8.31	36.10	46.47	55.73	53.67	74.00	-20.33	Peak
6	9660.000	11.37	37.64	47.17	51.01	52.85	74.00	-21.15	Peak



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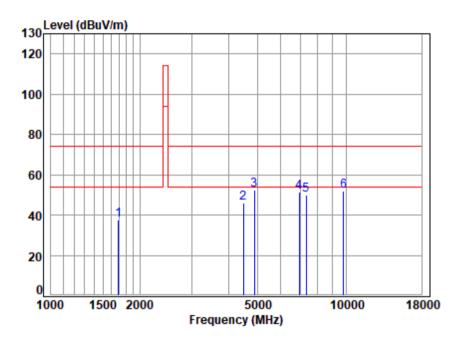
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00016AT

Mode : 2445 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	
	4500 004			46.37			74.00	26.26	
1	1692.231	4.18	24.99	46.3/	54.84	3/.64	/4.00	-36.36	peak
2	4495.125	7.47	30.19	46.43	54.81	46.04	74.00	-27.96	peak
3	p 4890.000	8.12	31.15	46.88	60.08	52.47	74.00	-21.53	peak
4	6934.778	8.13	35.65	46.69	54.37	51.46	74.00	-22.54	peak
5	7335.000	8.35	36.21	46.38	51.97	50.15	74.00	-23.85	peak
6	9780.000	11.28	37.91	47.25	50.12	52.06	74.00	-21.94	peak



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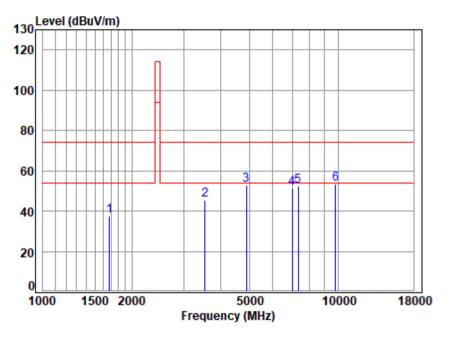
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 00016AT

Mode : 2445 TX RSE

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1682.477	4.16	24.97	46.37	54.63	37.39	74.00	-36.61	peak
2		3536.341	7.03	28.76	46.23	55.77	45.33	74.00	-28.67	peak
3		4890.000	8.12	31.15	46.88	60.41	52.80	74.00	-21.20	peak
4		6995.172	8.19	35.79	46.70	54.03	51.31	74.00	-22.69	peak
5		7335.000	8.35	36.21	46.38	54.46	52.64	74.00	-21.36	peak
6	р	9780.000	11.28	37.91	47.25	51.33	53.27	74.00	-20.73	peak



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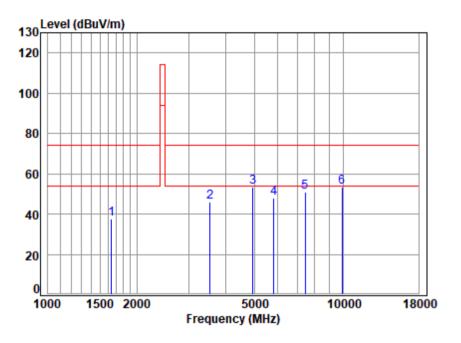
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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00016AT

Mode : 2475 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	1644.019	4.08	24.89	46.38	55.02	37.61	74.00	-36.39	peak
2	3536.341	7.03	28.76	46.23	56.38	45.94	74.00	-28.06	peak
3	4950.000	8.22	31.29	46.95	60.78	53.34	74.00	-20.66	peak
4	5813.812	7.87	32.47	46.59	54.17	47.92	74.00	-26.08	peak
5	7425.000	8.40	36.31	46.30	52.45	50.86	74.00	-23.14	peak
6 p	9900.000	11.19	38.18	47.33	51.38	53.42	74.00	-20.58	peak



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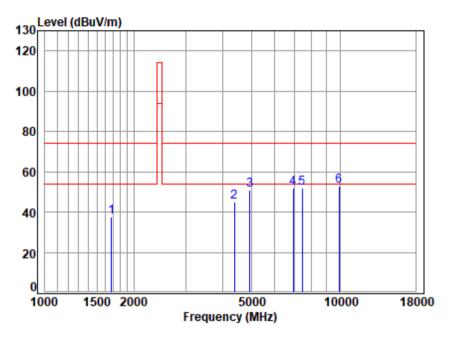
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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 00016AT

Mode : 2475 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	1682.477	4.16	24.97	46.37	55.02	37.78	74.00	-36.22	peak
2	4392.376	7.47	30.06	46.30	53.83	45.06	74.00	-28.94	peak
3	4950.000	8.22	31.29	46.95	58.42	50.98	74.00	-23.02	peak
4	6934.778	8.13	35.65	46.69	54.65	51.74	74.00	-22.26	peak
5	7425.000	8.40	36.31	46.30	53.73	52.14	74.00	-21.86	peak
6	p 9900.000	11.19	38.18	47.33	50.86	52.90	74.00	-21.10	peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2203000016AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2203000016AT

- End of the Report -



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