

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

Report No.: FYCR221000040302

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TEST REPORT

Application No.: FYCR2210000403AT

Applicant: SHANTOU CHENGHAI TENGHUI PLASTIC TOYS FACTORY

Address of Applicant: KUNMEI NEW INDUSTRIAL PARK, FENGXIANG STREET, CHENGHAI

SHANTOU, 515800 CHINA

Manufacturer: SHANTOU CHENGHAI TENGHUI PLASTIC TOYS FACTORY

Address of Manufacturer: KUNMEI NEW INDUSTRIAL PARK, FENGXIANG STREET, CHENGHAI

SHANTOU, 515800 CHINA

Equipment Under Test (EUT):

EUT Name: RADIO CONTROL TOYS

Model No.: EXA785043, EXA785011, EXA785012, EXA785013, EXA785014,

EXA785019, EXA785022, EXA785015, EXA785016. EXA785017 EXA785018. EXA7850111, EXA7850110, EXA7850112, EXA785021, EXA785023, EXA785031, EXA785032, EXA785033, EXA785041, EXA785044, EXA785042, EXA785045, EXA785046, EXA785047, EXA785049, EXA7850410, EXA7850411, EXA78506, EXA78507, EXA78508, EXA78509, EXA785048, EXA7850412 EXA78505, EXA78510. EXA78511, EXA78512, EXA78513, EXA78514, EXA78515, 535-01/200. 595-01/200, 636-01/200, 898-01/200, 868-01/200, 555-01/200, 080-01/200, 081-01/200, 082-01/200, 083-01/200, 381-382, 383-01/200, 353-01/200, 888-01/200, 999-01/200, 686-01/200, 565-01/200, 575-01/200, 585-01/200, 282-01/200, 636-01/200, 252-01/100, 253-01/100, 254-01/100, 255-01/100, 256-01/100, 257-01/100, 258-01/100, 232-01/200, 323-01/200, 454-01/200, 262-01/200, 262-101ABCD, 262-121ABCD, 262-122ABCD, 262-B121

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

actually tested and which were electrically identical.

FCC ID: 2A82F-STTH785043

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

Date of Receipt: 2022-10-14

Date of Test: 2022-10-19 to 2022-11-10

Date of Issue: 2022-11-11

Test Result: Pass*

Winkey Wang EMC Technical Manager

WinkeyWang



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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		2022-11-11		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	

Declaration of EUT Family Grouping:

Model No.: EXA785043, EXA785011, EXA785012, EXA785013, EXA785014, EXA785015, EXA785016, EXA785017, EXA785018, EXA785019, EXA7850110, EXA7850111, EXA7850112, EXA785021, EXA785022, EXA785023, EXA785031, EXA785032, EXA785033, EXA785041, EXA785042, EXA785044, EXA785045, EXA785046, EXA785047, EXA785048, EXA785049, EXA7850410, EXA7850411, EXA7850412, EXA78505, EXA78506, EXA78507, EXA78508, EXA78509, EXA78510, EXA78511, EXA78512, EXA78513, EXA78514, EXA78515, 535-01/200, 595-01/200, 636-01/200, 898-01/200, 868-01/200, 555-01/200, 080-01/200, 081-01/200, 082-01/200, 083-01/200, 381-382, 383-01/200, 353-01/200, 888-01/200, 999-01/200, 686-01/200, 565-01/200, 575-01/200, 585-01/200, 282-01/200, 636-01/200, 252-01/100, 253-01/100, 254-01/100, 255-01/100, 256-01/100, 257-01/100, 258-01/100, 232-01/200, 323-01/200, 454-01/200, 262-01/200, 262-101ABCD, 262-121ABCD, 262-122ABCD, 262-B121

Only the model EXA785043 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on color.



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7.5.4 Measurement Procedure and Data	_		SETUP PHOTOSETUP SETUP S	
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4 General Information

4.1 Details of E.U.T.

Power supply:	3V DC(1.5V x 2 "AA" Size Batteries) for TX
Operation Frequency:	2405MHz to 2475MHz
Modulation Type:	GFSK
Number of Channels:	14
Antenna Type:	Integral
Antenna Gain:	0dBi
Operating Software:	TxCP2310C_SOP16
Power setting:	0

Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2405	8	2440
2	2417	9	2446
3	2419	10	2451
4	2421	11	2456
5	2423	12	2460
6	2428	13	2468
7	2437	14	2475

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.		



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4.3 Measurement Uncertainty

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	2022/7/12	2023/7/11	
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11	
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11	
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11	
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11	
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11	
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11	
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11	
Measurement Software	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	2022/4/24	2023/4/23			
Coaxial Cable	al Cable CCS		SEM035-01	2022/5/16	2023/5/15			
Coaxial Cable	CCS	N/A	SEM035-02 SEM005-27	2022/5/16 2022/4/15 2022/4/15	2023/5/15			
Pre-amplifier	TST PASS	LNA04080G30			2023/4/14			
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28		2023/4/14			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			



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Restricted Band Around Fundamental Frequency								
Equipment	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	2022/4/24	2023/4/23			
Coaxial Cable	CCS	N/A	SEM035-01	2022/5/16	2023/5/15			
Coaxial Cable	CCS	N/A	SEM035-02	2022/5/16	2023/5/15			
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14			
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
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			
Biconical Antenna	Biconical Antenna Schwarzbeck		SEM003-35	2021/12/26	2024/12/25			
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25			
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	Coaxial Cable CCS		SEM035-01	2022/5/16	2023/5/15			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			



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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	2024/7/12
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 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	I Schwarzheck		SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer	Rohde & Schwarz	101288 SEM004-08		2022/7/12	2023/7/11
Low Noise Amplifier	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2022/7/12	2023/7/11
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/7/12	2023/7/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
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	2022-07-12	2023-07-11			
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11			
Barometer	DUMAI	DYM3	SEM002-24	2022-07-12	2023-07-11			



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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

Standard 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

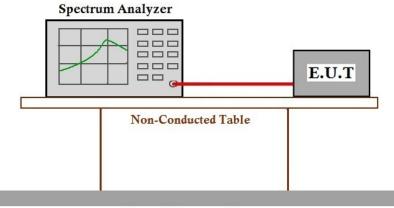
Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results		
Lowest	1.110	Pass		
Middle	1.115	Pass		
Highest	1.111	Pass		



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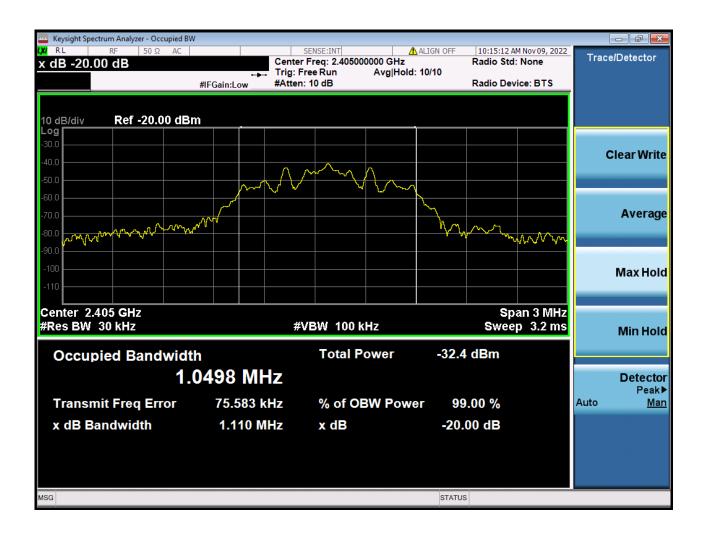
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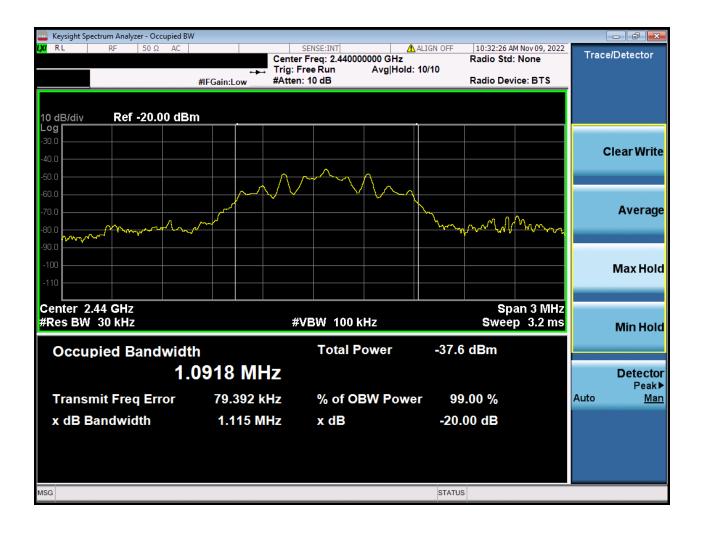
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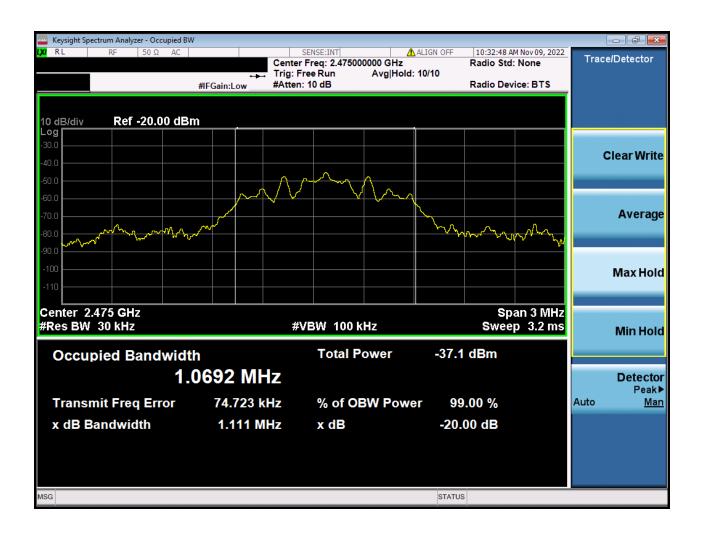
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7.2 Field Strength of the Fundamental Signal (15.249(a))

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: 22.2 °C Humidity: 55.5 % 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.



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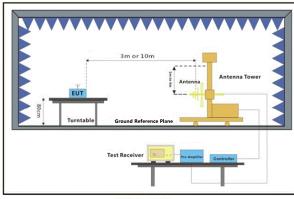


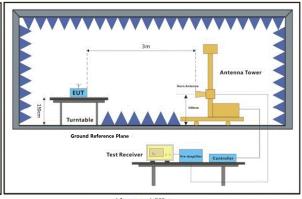
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7.2.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

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 20dB 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 20dB 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:
- 1)Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2) Set spectrum analyzer:

For below 1GHz:RBW = 120kHz, VBW = 300kHz;For Above 1GHz:RBW = 1 MHz, VBW = 3 MHz



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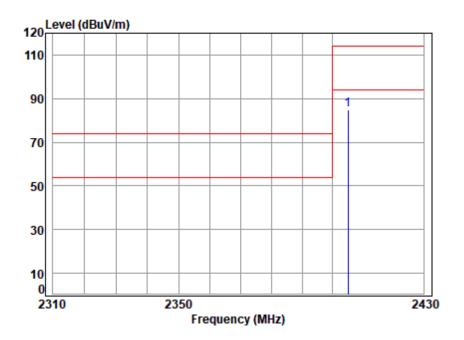


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00403AT Mode : 2405MHz

2405.000

1

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

5.06 27.19 32.50 84.92 84.67 114.00 -29.33 peak



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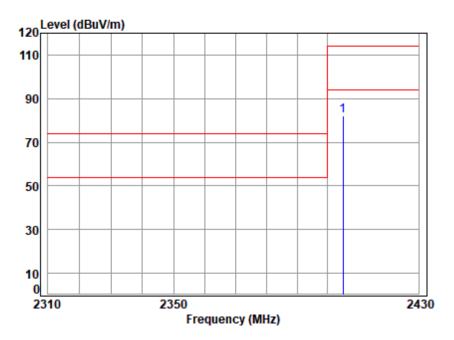


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 00403AT

Mode : 2405MHz

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

1 2405.000 5.06 27.19 32.50 82.30 82.05 114.00 -31.95 peak



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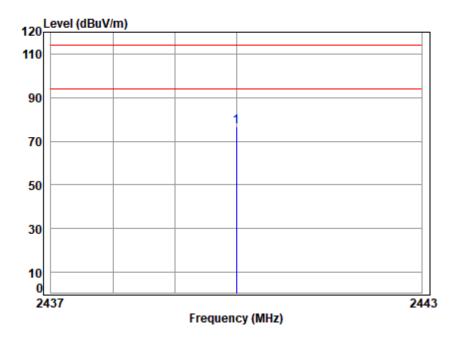


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00403AT Mode : 2440MHz

2440.000

1

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

5.09 27.27 32.50 76.95 76.81 114.00 -37.19 Peak



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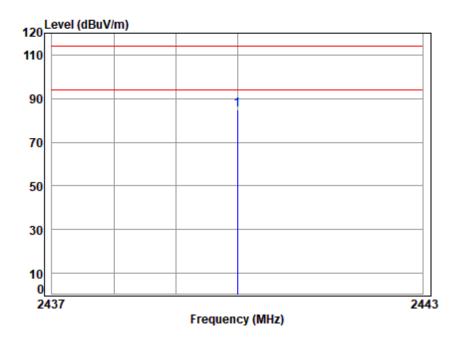


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 00403AT Mode : 2440MHz

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

1 2440.000 5.09 27.27 32.50 84.95 84.81 114.00 -29.19 Peak



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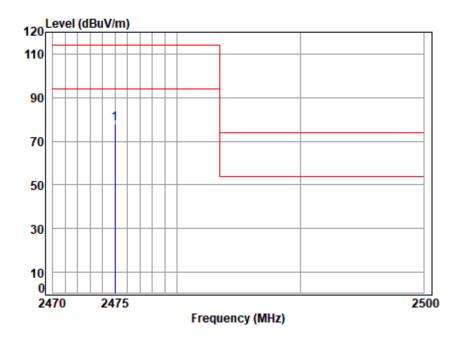


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00403AT Mode : 2475MHz

2475.000

1

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

5.11 27.35 32.50 77.95 77.91 114.00 -36.09 peak



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Company: Attention:**Optical Results**

Company:

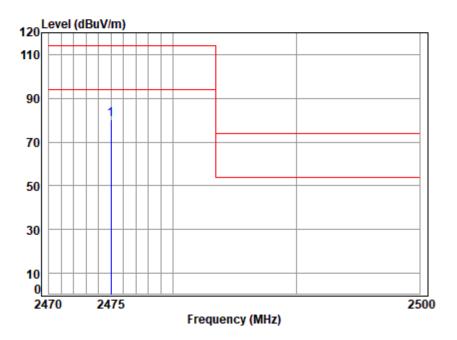


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 00403AT

Mode : 2475MHz

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

1 2475.000 5.11 27.35 32.50 80.23 80.19 114.00 -33.81 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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7.3 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 Quasi-peak Value		
960MHz-1GHz	54.0			
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: 22.2 °C Humidity: 52.0 % 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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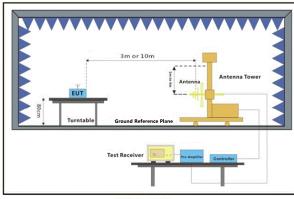


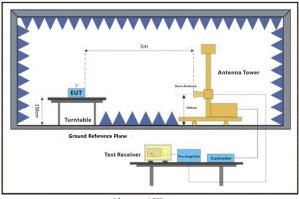
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7.3.3 Test Setup Diagram





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 20dB 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 20dB 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)Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2) Set spectrum analyzer:

For below 1GHz:RBW = 120kHz, VBW = 300kHz;For Above 1GHz:RBW = 1 MHz, VBW = 3 MHz



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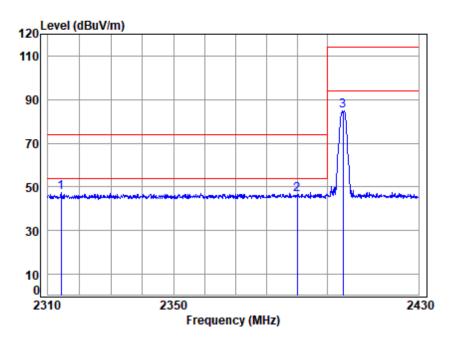


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00403AT

1 2 3

Mode : 2405 Band edge

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2314.215	5.00	26.98	32.50	47.76	47.24	74.00	-26.76	peak
2390.000	5.05	27.16	32.50	46.68	46.39	74.00	-27.61	peak
2405,000	5.06	27.19	32.50	84.92	84.67	114.00	-29.33	neak



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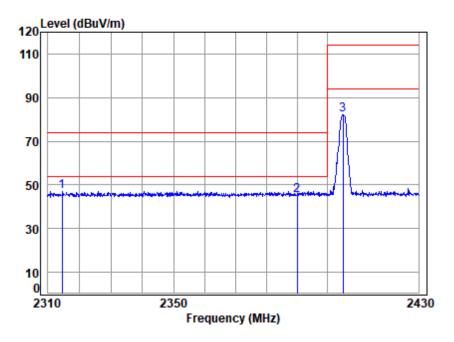


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 00403AT

1 2 3

Mode : 2405 Band edge

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2314.567	5.00	26.99	32.50	47.59	47.08	74.00	-26.92	peak
2390.000	5.05	27.16	32.50	45.34	45.05	74.00	-28.95	peak
2405,000	5.06	27.19	32.50	82.30	82.05	114.00	-31.95	neak



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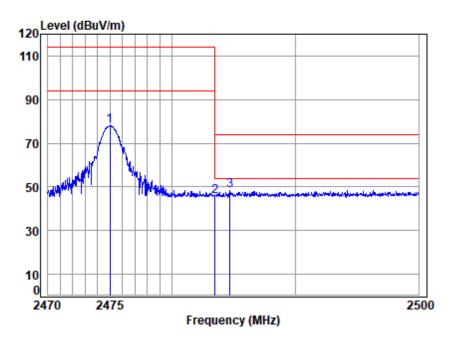


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00403AT

1 2 3

Mode : 2475 Band edge

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
2475.000	5.11	27.35	32.50	77.95	77.91	114.00	-36.09	peak
2483.500	5.12	27.36	32.50	45.66	45.64	74.00	-28.36	peak
2484.685	5.12	27.37	32.50	48.33	48.32	74.00	-25.68	peak



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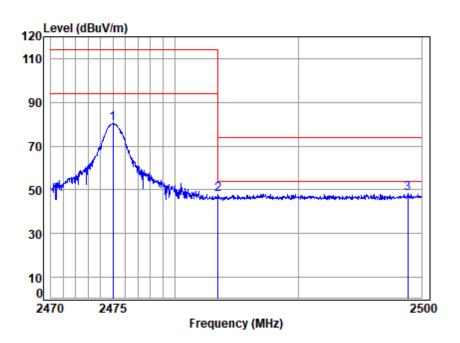


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 00403AT

Mode : 2475 Band edge

		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		_
						•			
2475.000	5.11	27.35	32.50	80.23	80.19	114.00	-33.81	peak	
2483.500								•	
2498.884			32.50					•	

Remark:

1 2 3

- 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 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

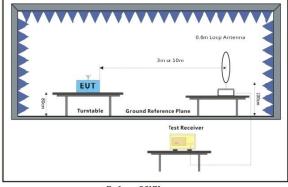
Operating Environment:

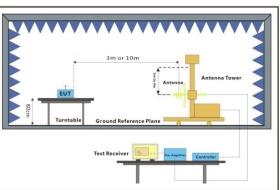
Temperature: 23.2 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

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

7.4.3 Test Setup Diagram





Below 30MHz 30MHz-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 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 20dB 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 20dB 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. Set spectrum analyzer: RBW = 120kHz, VBW = 300kHz;
- 3. 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.
- 4. Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.



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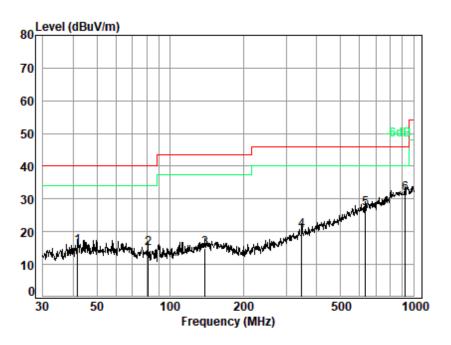


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00403AT

Mode : 00

	Fnoa			Preamp					Domanic
	Freq	LOSS	Factor	Factor	rever	revei	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	41.5670	0.21	17.07	26.01	24.32	15.59	40.00	-24.41	QP
2	81.2117	0.50	14.33	25.79	25.87	14.91	40.00	-25.09	QP
3	139.3613	0.97	17.39	25.54	22.08	14.90	43.50	-28.60	QP
4	346.8092	1.49	19.81	25.43	24.56	20.43	46.00	-25.57	QP
5	633.9073	2.15	24.94	24.84	24.94	27.19	46.00	-18.81	QP
6	925.7563	2.26	29.02	24.07	24.46	31.67	46.00	-14.33	QP



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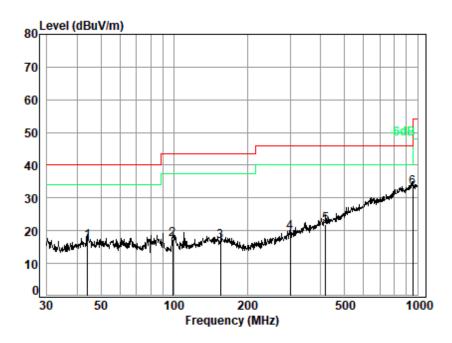


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No : 00403AT

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	44.1203	0.22	17.30	26.01	25.25	16.76	40.00	-23.24	QP
2	98.8326	0.86	14.16	25.61	27.90	17.31	43.50	-26.19	QP
3	155.3643	0.88	17.31	25.52	24.18	16.85	43.50	-26.65	QP
4	299.3159	1.01	18.29	25.40	25.43	19.33	46.00	-26.67	QP
5	419.1081	1.60	21.06	25.47	24.65	21.84	46.00	-24.16	QP
6	955.4382	2.26	29.30	24.04	25.52	33.04	46.00	-12.96	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

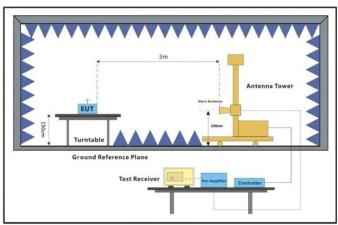
Operating Environment:

Temperature: 22.2 °C Humidity: 51.3 % 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 20dB 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 20dB 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. Set spectrum analyzer:RBW = 1 MHz, VBW = 3 MHz
- 3. 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.
- 4. 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.
- 5. 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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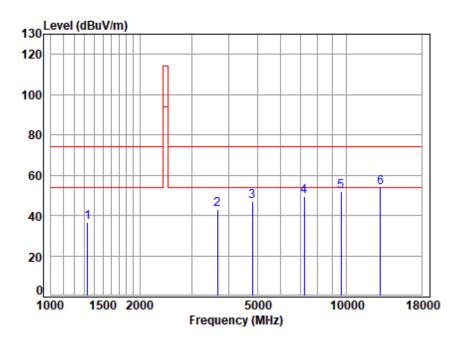


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00403AT Mode : 2405 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	1331.288	3.44	24.23	52.75	61.60	36.52	74.00	-37.48	Peak
2	3671.746	7.17	28.99	52.89	59.94	43.21	74.00	-30.79	Peak
3	4810.000	7.99	30.96	53.05	60.86	46.76	74.00	-27.24	peak
4	7215.000	8.30	36.06	53.52	58.68	49.52	74.00	-24.48	peak
5	9620.000	11.40	37.55	53.57	56.53	51.91	74.00	-22.09	peak
6	13059.820	12.44	39.81	54.18	55.71	53.78	74.00	-20.22	Peak



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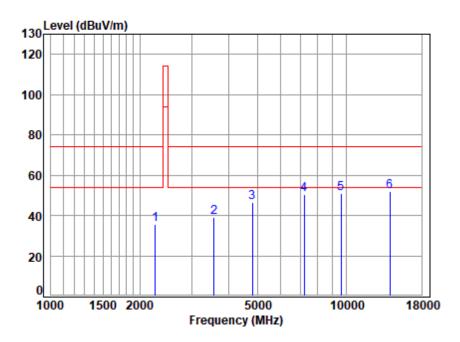


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 00403AT Mode : 2405 TX RSE

ouc	. 2403	17 1121	-						
		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	2259.367	4.96	26.86	53.10	56.63	35.35	74.00	-38.65	Peak
2	3567.138	7.06	28.81	52.92	56.20	39.15	74.00	-34.85	Peak
3	4810.000	7.99	30.96	53.05	60.55	46.45	74.00	-27.55	peak
4	7215.000	8.30	36.06	53.52	59.58	50.42	74.00	-23.58	peak
5	9620.000	11.40	37.55	53.57	55.61	50.99	74.00	-23.01	peak
6	14038.450	11.47	41.50	53.80	52.63	51.80	74.00	-22.20	Peak



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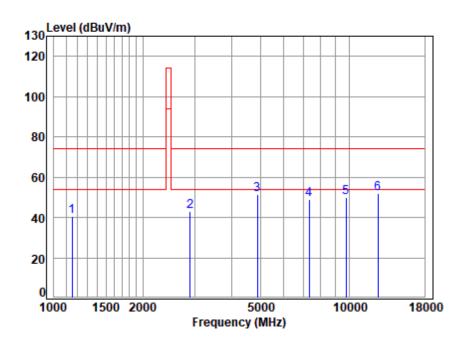


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00403AT 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	1152.148	3.03	24.26	52.62	66.00	40.67	74.00	-33.33	Peak
2	2888.584	5.60	28.35	53.10	62.00	42.85	74.00	-31.15	Peak
3	4880.000	8.11	31.12	53.07	65.03	51.19	74.00	-22.81	peak
4	7320.000	8.35	36.19	53.53	57.74	48.75	74.00	-25.25	peak
5	9760.000	11.30	37.87	53.43	54.25	49.99	74.00	-24.01	peak
6	12505.710	12.45	39.75	54.10	54.00	52.10	74.00	-21.90	Peak



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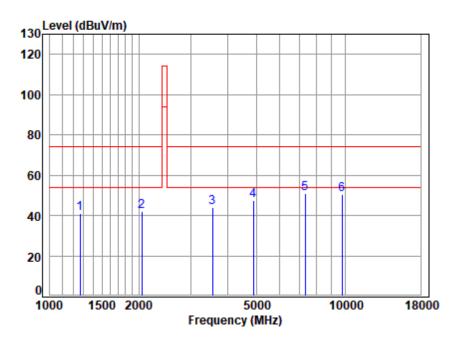


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 00403AT : 2440 TX RSE Mode

ouc	. 2440	17 1121							
		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	1267.454	3.30	24.26	52.71	66.01	40.86	74.00	-33.14	Peak
2	2047.895	4.79	26.33	53.10	64.00	42.02	74.00	-31.98	Peak
3	3556.843	7.05	28.80	52.92	60.99	43.92	74.00	-30.08	Peak
4	4880.000	8.11	31.12	53.07	61.15	47.31	74.00	-26.69	peak
5	7320.000	8.35	36.19	53.53	60.11	51.12	74.00	-22.88	peak
6	9760.000	11.30	37.87	53.43	54.89	50.63	74.00	-23.37	peak



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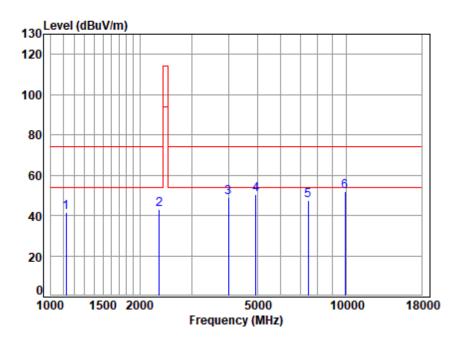


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00403AT Mode : 2475 TX RSE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1125.813	2.97	24.23	52.60	67.00	41.60	74.00	-32.40	Peak
2	2332.356	5.01	27.03	53.10	64.00	42.94	74.00	-31.06	Peak
3	3992.781	7.48	29.49	52.80	65.00	49.17	74.00	-24.83	Peak
4	4950.000	8.22	31.29	53.09	64.12	50.54	74.00	-23.46	peak
5	7425.000	8.40	36.31	53.54	56.14	47.31	74.00	-26.69	peak
6	9900 000	11 19	38 18	53 30	55 99	52 06	74 00	-21 94	neak



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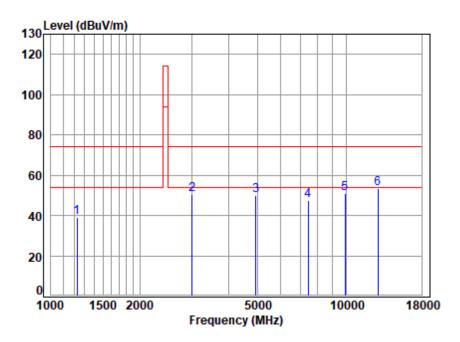


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 00403AT Mode : 2475 TX RSE

uc	. 24/3	וא ואסו	-							
		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	1227.791	3.21	24.29	52.68	64.00	38.82	74.00	-35.18	Peak	
2	3007.868	5.74	28.60	53.10	69.01	50.25	74.00	-23.75	Peak	
3	4950.000	8.22	31.29	53.09	63.37	49.79	74.00	-24.21	peak	
4	7425.000	8.40	36.31	53.54	56.35	47.52	74.00	-26.48	peak	
5	9900.000	11.19	38.18	53.30	54.97	51.04	74.00	-22.96	peak	
6	12798.240	12.47	39.72	54.16	55.30	53.33	74.00	-20.67	Peak	



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2210000403AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for FYCR2210000403AT

- End of the Report -



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