

Report No.: SZEM200800775502

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TEST REPORT

Application No.: SZEM2008007755CR

Applicant: Shantou Hong XUN Jie Electronic Technology Co., Ltd.

Address of Applicant: No. 6, South of Dengfeng Road, Guangyi Street, Chenghai District, Shantou

515800 China

Manufacturer: Shantou Hong XUN Jie Electronic Technology Co., Ltd.

Address of Manufacturer: No. 6, South of Dengfeng Road, Guangyi Street, Chenghai District, Shantou

515800 China

Equipment Under Test (EUT):

EUT Name: Toy remote control boat

Model No.: 806B, 806, 701, 701B, 702, 702B, 703, 703B, 705, 705B, 706, 706B, 707,

707B, 708, 708B, 709, 709B, 710, 710B, 801, 801B, 802, 802B, 803, 803B, 805, 805B, 807, 807B, 808, 808B, 809, 809B, 810, 810B, 811, 811B, 812, 812B, 813, 813B, 815, 815B, 816, 816B, 817, 817B, 818, 818B, 819, 819B, 820, 820B, 901, 901B, 902, 902B, 903, 903B, 905, 905B, 906, 906B, 907,

907B, 908, 908B, 909, 909B, 910, 910B, T1, T2 ...

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

actually tested and which were electrically identical.

FCC ID: 2AW7820200807

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

Date of Receipt: 2020-08-10

Date of Test: 2020-08-11 to 2020-08-20

Date of Issue: 2020-09-07

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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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						
01		2020-09-07		Original			

Authorized for issue by:		
	Gebin Sun	
	Gebin Sun /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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Test Summary 2

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	47 CFR Part 15, Subpart C 15.249	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, Subpart C 15.249	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	47 CFR Part 15, Subpart C 15.249	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.: 806B, 806, 701, 701B, 702, 702B, 703, 703B, 705, 705B, 706, 706B, 707, 707B, 708, 708B, 709, 709B, 710, 710B, 801, 801B, 802, 802B, 803, 803B, 805, 805B, 807, 807B, 808, 808B, 809, 809B, 810, 810B, 811, 811B, 812, 812B, 813, 813B, 815, 815B, 816, 816B, 817, 817B, 818, 818B, 819, 819B, 820, 820B, 901, 901B, 902, 902B, 903, 903B, 905, 905B, 906, 906B, 907, 907B, 908, 908B, 909, 909B, 910, 910B, T1, T2

Only the model 806B 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 difference on color, appearance and packaging.



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General Information

4.1 Details of E.U.T.

Power Supply:	6V DC(1.5V x 4 "AA" Size Batteries) for TX	
Operation Frequency:	2.4GHz(2407MHz-2478MHz)	
Modulation Type:	GFSK	
Number of Channels:	34	
Antenna Type:	Integral	
Antenna Gain:	2dBi	

Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2407	13	2457	25	2469
2	2414	14	2458	26	2470
3	2428	15	2459	27	2471
4	2436	16	2460	28	2472
5	2442	17	2461	29	2473
6	2443	18	2462	30	2474
7	2451	19	2463	31	2475
8	2452	20	2464	32	2476
9	2453	21	2465	33	2477
10	2454	22	2466	34	2478
11	2455	23	2467		
12	2456	24	2468		

4.2 Description of Support Units

The EUT has been tested as an independent unit.



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4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	Dadieted Courieus emission test	± 4.5dB (Below 1GHz)
4	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
5	Temperature test	± 1°C
6	Humidity test	± 3%
7	Supply voltages	± 1.5%
8	Time	± 3%



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4.4 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C

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
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27

Field Strength of the Fundamental Signal (15.249(a))						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08	
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23	
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31	
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31	
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13	



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Restricted Band Around Fundamental Frequency						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08	
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23	
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31	
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31	
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-14	2023-08-13	

Radiated Emissions (30MHz-1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09	
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23	
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31	



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Radiated Emissions(above 1GHz)									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10				
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08				
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12				
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16				
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23				
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31				
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31				
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23				
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21				

General used equipment								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25			
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25			
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06			



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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 Limit:

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 2dBi.

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

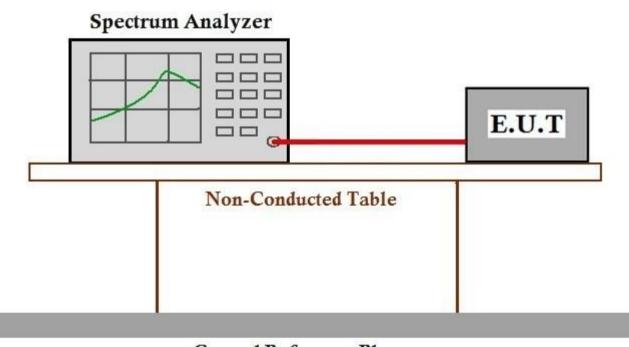
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 52 % RH Atmospheric Pressure: 1010 mbar

Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.1722	Pass
Middle	1.1577	Pass
Highest	1.1071	Pass



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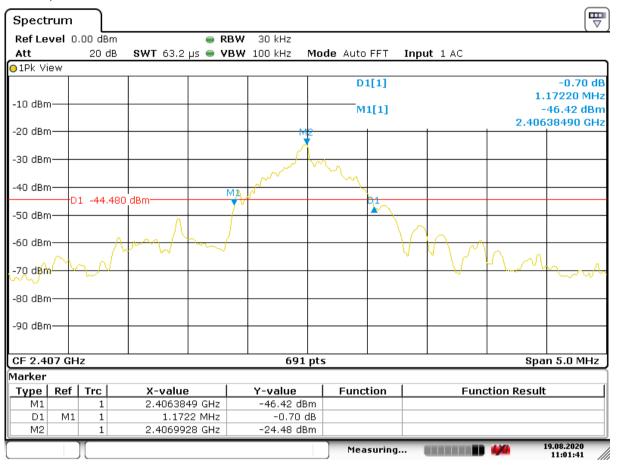
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Mode:b; Channel:Low



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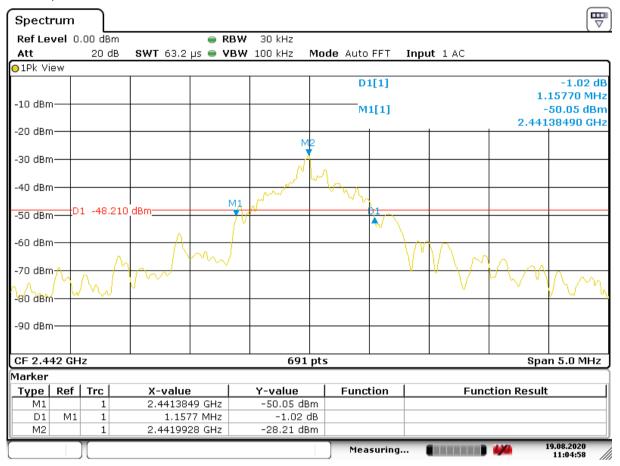
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Mode:b; Channel:middle



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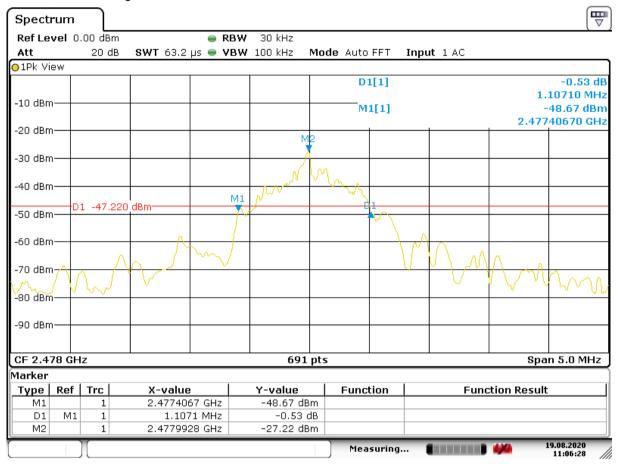
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Mode:b; Channel:High



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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) ANSI C63.10 (2013) Section 6.5&6.6 Test Method:

Measurement Distance: 3m

Limit:

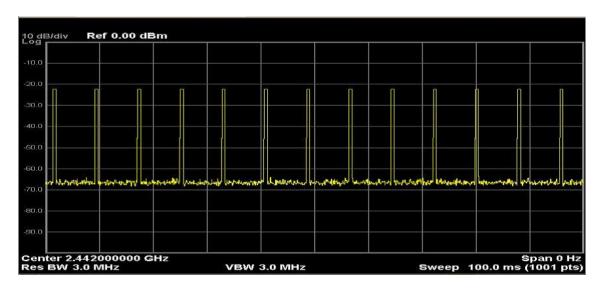
Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

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-

Average value:

	Average value=Peak value + PDCF				
Calculate Formula:	PDCF=20 log(Duty cycle)				
	Duty cycle= T on time / T period				
	Ton time =0.46ms				
Test data:	T period =7.96ms				
rest data.	Duty cycle=5.78%				
	PDCF value= -24.76dB				





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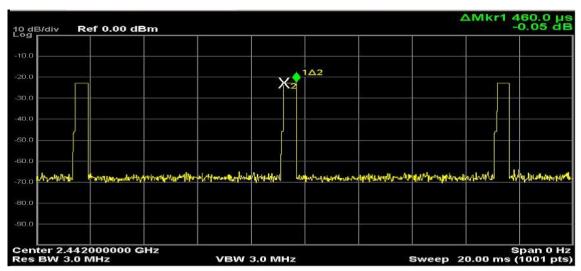
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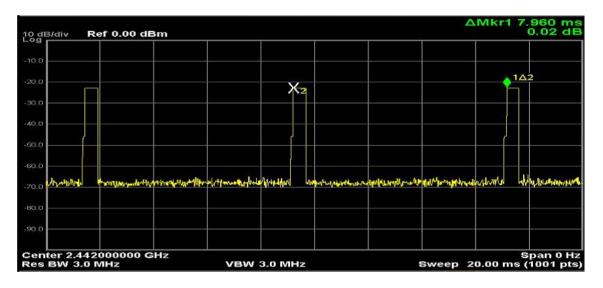
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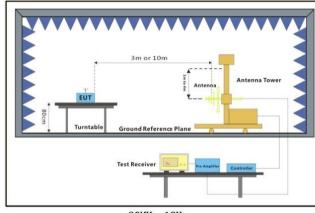
7.2.1 E.U.T. Operation

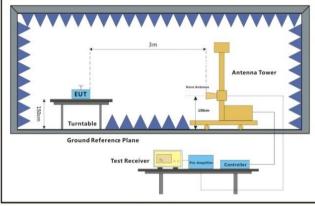
Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1010 mbar

Test mode b:TX mode Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.2.3 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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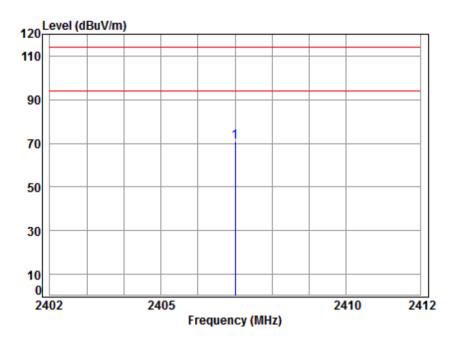
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07755CR

Mode : 2407 Field Strength

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 pp 2407.000 5.50 29.13 41.88 78.10 70.85 114.00 -43.15 peak



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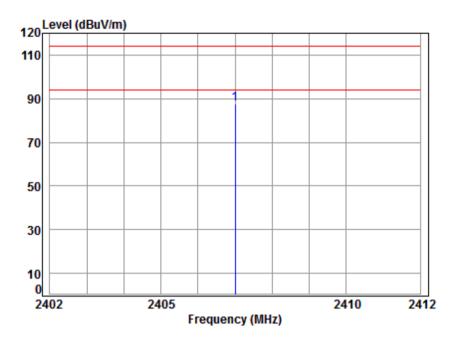
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Condition: 3m VERTICAL

Job No : 07755CR

Mode : 2407 Field Strength

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 pp 2407.000 5.50 29.13 41.88 94.97 87.72 114.00 -26.28 peak



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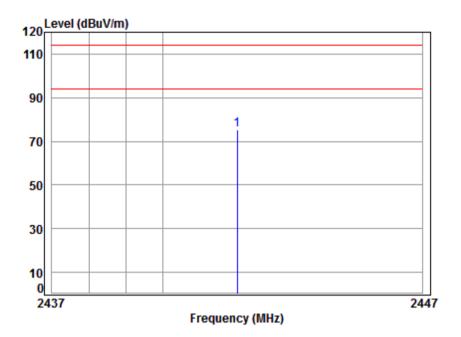
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Condition: 3m HORIZONTAL

Job No : 07755CR

Mode : 2442 Field Strength

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 pp 2442.000 5.54 29.23 41.89 82.62 75.50 114.00 -38.50 Peak



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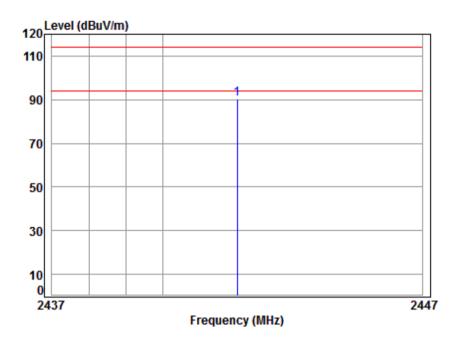
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Condition: 3m VERTICAL

Job No : 07755CR

Mode : 2442 Field Strength

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 pp 2442.000 5.54 29.23 41.89 97.39 90.27 114.00 -23.73 Peak



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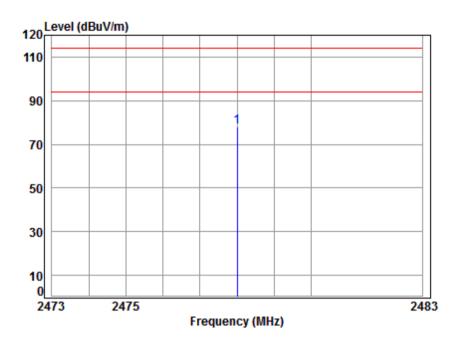
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 07755CR

Mode : 2478 Field Strength

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 pp 2478.000 5.59 29.34 41.91 85.18 78.20 114.00 -35.80 peak



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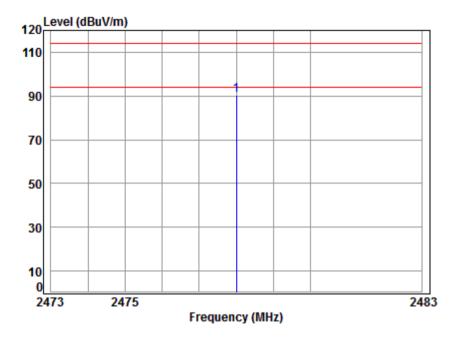
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Condition: 3m VERTICAL

Job No : 07755CR

Mode : 2478 Field Strength

> Cable Ant Preamp Read Limit 0ver Loss Factor Factor Freq Level Line Limit Remark Level

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

1 pp 2478.000 5.59 29.34 41.91 97.33 90.35 114.00 -23.65 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

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

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.

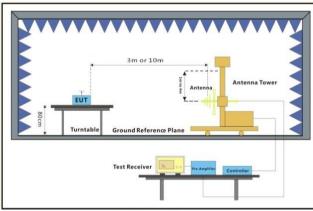
7.3.1 E.U.T. Operation

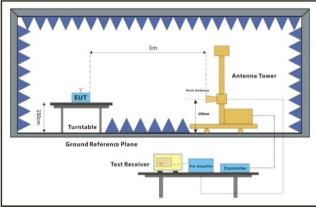
Operating Environment:

Temperature: 23 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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7.3.3 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

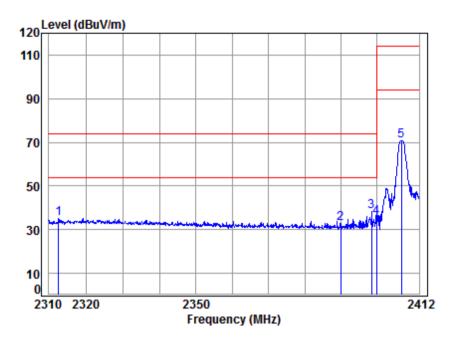




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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07755CR

Mode : 2407 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		2312.697	5.37	28.84	41.84	42.77	35.14	74.00	-38.86	peak
2		2390.000	5.47	29.08	41.87	40.18	32.86	74.00	-41.14	peak
3 p	ор	2398.697	5.49	29.10	41.88	45.68	38.39	74.00	-35.61	peak
4		2400.000	5.49	29.11	41.88	42.79	35.51	74.00	-38.49	peak
5		2407.000	5.50	29.13	41.88	78.10	70.85	114.00	-43.15	peak



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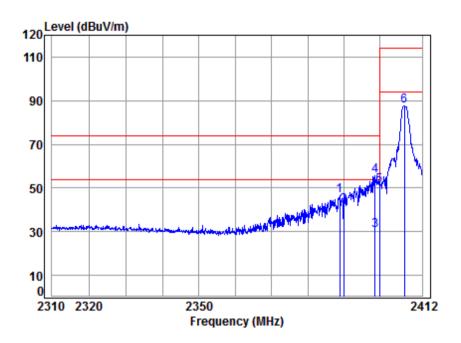
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Condition: 3m VERTICAL

Job No : 07755CR

Mode : 2407 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		2388.871	5.47	29.07	41.87	53.88	46.55	74.00	-27.45	peak
2		2390.000	5.47	29.08	41.87	49.18	41.86	74.00	-32.14	peak
3	av	2398.800	5.49	29.10	41.88	37.99	30.70	54.00	-23.30	Average
4	pp	2398.800	5.49	29.10	41.88	62.75	55.46	74.00	-18.54	peak
5		2400.000	5.49	29.11	41.88	58.39	51.11	74.00	-22.89	peak
6		2407.000	5.50	29.13	41.88	94.97	87.72	114.00	-26.28	peak



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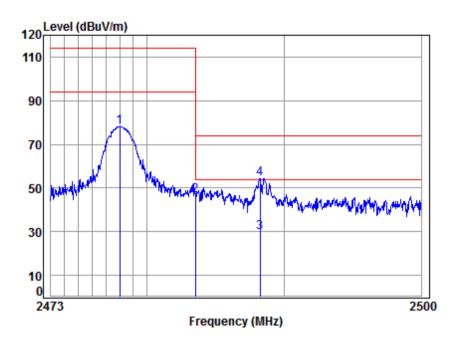
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 07755CR

Mode : 2478 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		2478.000	5.59	29.34	41.91	85.18	78.20	114.00	-35.80	peak
2		2483.500	5.60	29.35	41.91	53.55	46.59	74.00	-27.41	peak
3	av	2488.219	5.60	29.37	41.91	36.44	29.50	54.00	-24.50	Average
4	pp	2488.219	5.60	29.37	41.91	61.20	54.26	74.00	-19.74	peak



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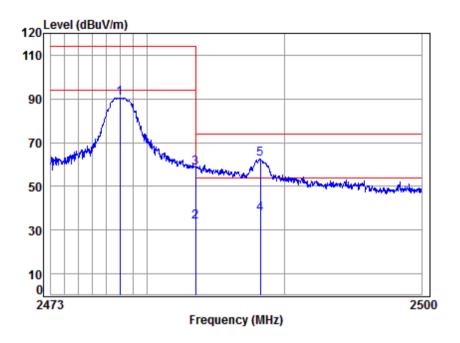
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Condition: 3m VERTICAL Job No : 07755CR

Mode : 2478 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	
	2478.000 2483.500 2483.500	5.60	29.35	41.91 41.91 41.91	40.63	33.67	54.00	-20.33	Average
	2488.219 2488.219	5.60	29.37		44.48	37.54	54.00	-16.46	Average

Remark:

1 2 3

5

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

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



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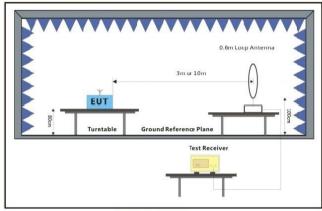
7.4.1 E.U.T. Operation

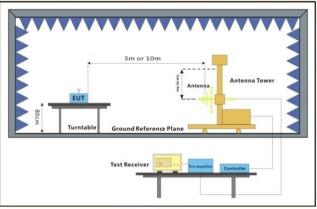
Operating Environment:

Temperature: 25 °C Humidity: % RH Atmospheric Pressure: 1010 mbar

Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

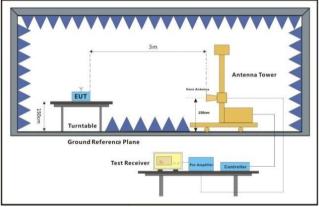
7.4.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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7.4.3 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:

- 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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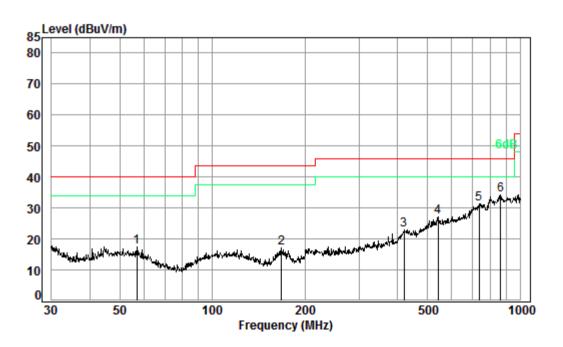


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Below 1GHz

Mode:b; Polarization:Horizontal;



Condition: 3m HORIZONTAL

Job No. : 07755CR

Test mode: b

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	56.79	0.80	13.50	27.57	26.37	17.37	40.00	-22.63	QP
2	167.82	1.35	15.66	27.52	25.59	17.20	43.50	-26.30	QP
3	420.58	2.29	22.89	27.76	23.64	23.03	46.00	-22.97	QP
4	541.37	2.64	25.47	27.80	24.64	26.99	46.00	-19.01	QP
5	737.07	3.01	28.13	27.50	24.12	31.43	46.00	-14.57	QP
6 pp	866.09	3.48	29.38	27.19	23.90	34.29	46.00	-11.71	OP



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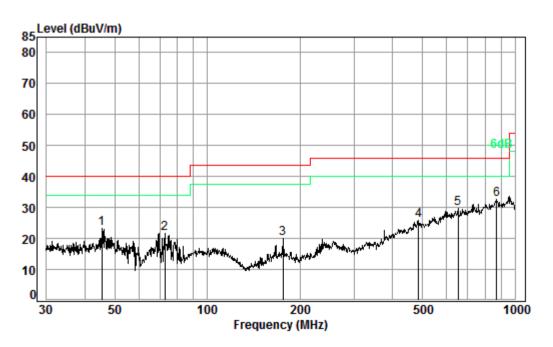
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Mode:b; Polarization:Vertical;



Condition: 3m VERTICAL Job No. : 07755CR

Test mode: b

		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	45.38	0.72	15.64	27.61	30.29	23.31	40.00	-16.69	QP
2	72.85	0.89	12.56	27.52	36.55	21.57	40.00	-18.43	QP
3	176.27	1.36	15.83	27.53	29.15	20.04	43.50	-23.46	QP
4	485.61	2.55	24.31	27.86	24.49	25.84	46.00	-20.16	QP
5	651.94	2.81	27.30	27.62	25.03	29.74	46.00	-16.26	QP
6 pp	872.18	3.50	29.45	27.17	24.08	32.79	46.00	-13.21	OP



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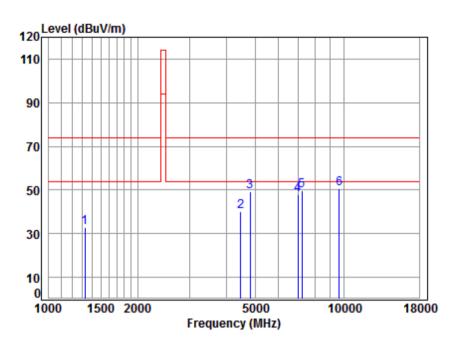


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Above 1GHz

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07755CR Mode : 2407 TX SE

ouc	. 240	, ,,, ,								
		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	1323.614	4.88	25.06	41.28	44.34	33.00	74.00	-41.00	peak	
2	4469.214	7.53	33.60	42.41	41.40	40.12	74.00	-33.88	peak	
3	4814.000	7.90	34.18	42.47	49.78	49.39	74.00	-24.61	peak	
4	6995.172	10.14	36.49	40.86	42.26	48.03	74.00	-25.97	peak	
5	7221.000	10.07	36.41	40.70	43.99	49.77	74.00	-24.23	peak	
6 r	on 9628,000	10.76	37.53	37.71	40.23	50.81	74.00	-23.19	neak	



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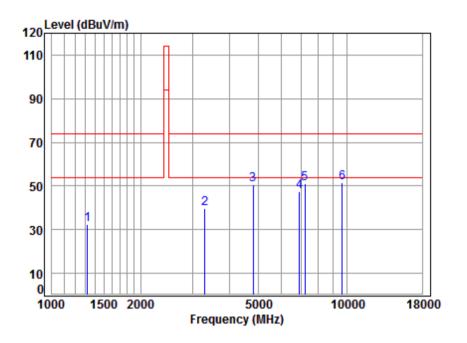
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Condition: 3m VERTICAL

Job No : 07755CR Mode : 2407 TX SE

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-									
		MHz	ав	dB/m	dB	aBuV	dBuV/m	dBuV/m	dB	
1		1319.794	4.87	25.04	41.28	43.86	32.49	74.00	-41.51	peak
2		3308.894	6.29	31.87	42.18	43.76	39.74	74.00	-34.26	peak
3		4814.000	7.90	34.18	42.47	51.00	50.61	74.00	-23.39	peak
4		6914.763	10.36	36.27	40.91	41.80	47.52	74.00	-26.48	peak
5		7221.000	10.07	36.41	40.70	45.44	51.22	74.00	-22.78	peak
6	pp	9628.000	10.76	37.53	37.71	41.15	51.73	74.00	-22.27	peak



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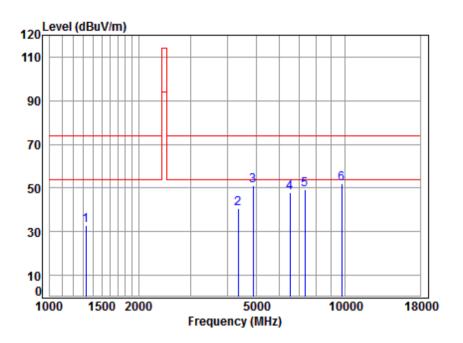
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Condition: 3m HORIZONTAL

Job No : 07755CR Mode : 2442 TX SE

			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		1323.614	4.88	25.06	41.28	44.15	32.81	74.00	-41.19	peak
2		4354.454	7.40	33.60	42.39	41.88	40.49	74.00	-33.51	peak
3		4884.000	7.97	34.30	42.48	51.35	51.14	74.00	-22.86	peak
4		6526.373	11.46	35.18	41.20	42.69	48.13	74.00	-25.87	peak
5		7326.000	10.04	36.37	40.63	43.63	49.41	74.00	-24.59	peak
6	pp	9768.000	10.83	37.55	37.52	41.27	52.13	74.00	-21.87	peak



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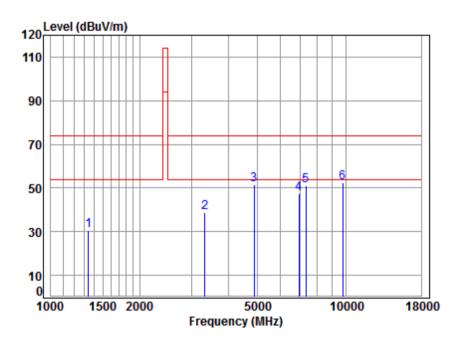
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Condition: 3m VERTICAL

Job No : 07755CR Mode : 2442 TX SE

Cable Ant Preamp Limit 0ver Read Freq Loss Factor Factor Level Line Limit Remark Level dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1339.006 4.94 25.13 41.29 41.99 30.77 74.00 -43.23 peak 31.91 42.18 42.85 38.88 74.00 -35.12 peak 2 3328.077 6.30 4884.000 7.97 34.30 42.48 51.71 51.50 74.00 -22.50 peak 10.31 36.32 40.90 41.53 47.26 74.00 -26.74 peak 6934.778 7326.000 10.04 36.37 40.63 45.17 50.95 74.00 -23.05 peak 6 pp 9768.000 10.83 37.55 37.52 41.48 52.34 74.00 -21.66 peak



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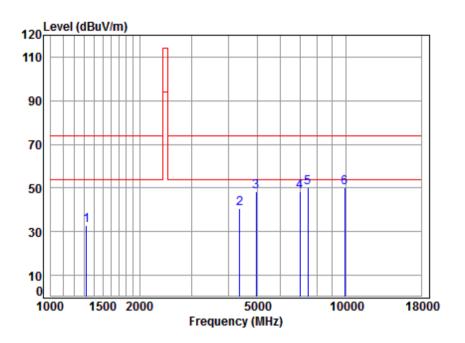
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 07755CR Mode : 2478 TX SE

			0 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		1319.794	4.87	25.04	41.28	44.36	32.99	74.00	-41.01	peak	
2		4367.058	7.41	33.60	42.39	42.03	40.65	74.00	-33.35	peak	
3		4956.000	8.05	34.42	42.49	48.56	48.54	74.00	-25.46	peak	
4		6974.982	10.20	36.43	40.87	42.65	48.41	74.00	-25.59	peak	
5		7434.000	10.02	36.33	40.56	44.30	50.09	74.00	-23.91	peak	
6	nn	9912 000	10 90	37 58	37 32	39 25	50 41	74 00	-23 59	neak	



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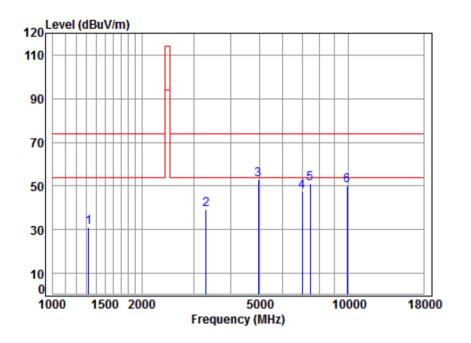
sgs.china@sgs.com



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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Condition: 3m VERTICAL

Job No : 07755CR Mode : 2478 TX SE

1

2

4

5

Cable Ant Preamp Limit 0ver Read Freq Loss Factor Factor Level Line Limit Remark Level dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1319.794 4.87 25.04 41.28 42.54 31.17 74.00 -42.83 peak 3299.344 6.28 31.86 42.17 43.14 39.11 74.00 -34.89 peak 3 pp 4956.000 8.05 34.42 42.49 52.91 52.89 74.00 -21.11 peak 6995.172 36.49 40.86 41.55 47.32 74.00 -26.68 peak 10.14 7434.000 10.02 36.33 40.56 45.17 50.96 74.00 -23.04 peak 9912.000 10.90 37.58 37.32 39.17 50.33 74.00 -23.67 peak



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Photographs 8

8.1 Test Setup

Refer to Setup Photos

8.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos

- End of the Report -



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