

Report No.: SZEM200800763902

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TEST REPORT

Application No.: SZEM2008007639CR

Applicant: HUAJIA TECHNOLOGY INDUSTRY CO., LTD.

Address of Applicant: Fl.12. Jiafa Mansion, NO.9 Guangyi Road Chenghai Dist. Shantou China

Manufacturer: HUAJIA TECHNOLOGY INDUSTRY CO.,LTD.

Address of Manufacturer: Fl.12. Jiafa Mansion, NO.9 Guangyi Road Chenghai Dist. Shantou China

Equipment Under Test (EUT):

EUT Name: R/C Car

Model No.: RC1101, RC1102, RC1103, RC1104, RC1105, RC1106, RC1107, RC1108,

RC1109, RC1110, RC1111, RC1112, RC1113, RC1114, RC1115, RC1116, RC1117, RC1118, RC1119, RC1120, RC1121, RC1122, RC1123, RC1124, RC1125, RC1126, RC1127, RC1128, RC1129, RC1130, RC1131, RC1132, RC1133, RC1134, RC1135, RC1136, RC1137, RC1138, RC1139, RC1140, RC1141, RC1142, RC1143, RC1144, RC1145, RC1146, RC1147, RC1148, RC1149, RC1150, RC1151, RC1152, RC1153, RC1154, RC1155, RC1156, RC1157, RC1158, RC1159, RC1160, RC1161, RC1162, RC1163, RC1164, RC1165, RC1166, RC1167, RC1168, RC1169, RC1170, RC1171, RC1172, RC1173, RC1174, RC1175, RC1176, RC1177, RC1178, RC1179, RC1180

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

actually tested and which were electrically identical.

FCC ID: 2AFIOWJRC1156

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

Date of Receipt: 2020-08-07

Date of Test: 2020-08-07 to 2020-08-20

Date of Issue: 2020-08-27

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 Rema						
01		2020-08-27		Original			

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



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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	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.: RC1101, RC1102, RC1103, RC1104, RC1105, RC1106, RC1107, RC1108, RC1109, RC1110, RC1111, RC1112, RC1113, RC1114, RC1115, RC1116, RC1117, RC1118, RC1119, RC1120, RC1121, RC1122, RC1123, RC1124, RC1125, RC1126, RC1127, RC1128, RC1129, RC1130, RC1131, RC1132, RC1133, RC1134, RC1135, RC1136, RC1137, RC1138, RC1139, RC1140, RC1141, RC1142, RC1143, RC1144, RC1145, RC1146, RC1147, RC1148, RC1149, RC1150, RC1151, RC1152, RC1153, RC1154, RC1155, RC1156, RC1157, RC1158, RC1159, RC1160, RC1161, RC1162, RC1163, RC1164, RC1165, RC1166, RC1167, RC1168, RC1169, RC1170, RC1171, RC1172, RC1173, RC1174, RC1175, RC1176, RC1177, RC1178, RC1179, RC1180

Only the model RC1156 was tested. 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 colour, appearance and packaging.



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General Information

4.1 Details of E.U.T.

Power Supply:	Rechargeable battery DC3.7V 150mAh for TX, Charged by DC5V
Cable:	Connection cable:10cm unshieded
Operation Frequency:	2405MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	71
Sample Type:	Portable production
Antenna Type:	Integral
Antenna Gain:	0dBi

Channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2405	18	2424	36	2442	54	2460
1	2407	19	2425	37	2443	55	2461
2	2408	20	2426	38	2444	56	2462
3	2409	21	2427	39	2445	57	2463
4	2410	22	2428	40	2446	58	2464
5	2411	23	2429	41	2447	59	2465
6	2412	24	2430	42	2448	60	2466
7	2413	25	2431	43	2449	61	2467
8	2414	26	2432	44	2450	62	2468
9	2415	27	2433	45	2451	63	2469
10	2416	28	2434	46	2452	64	2470
11	2417	29	2435	47	2453	65	2471
12	2418	30	2436	48	2454	66	2472
13	2419	31	2437	49	2455	67	2473
14	2420	32	2438	50	2456	68	2474
15	2421	33	2439	51	2457	69	2475
16	2422	34	2440	52	2458	70	2480
17	2423	35	2441	53	2459		

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	Redicted 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	2017-08-22	2020-08-21		



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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(abo	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	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	2017-08-22	2020-08-21			



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
MXE EMI receiver (3Hz-3.6GHz)	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
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

General used equipmen	t				
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	· · · · · · · · · · · · · · · · · · ·		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

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 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

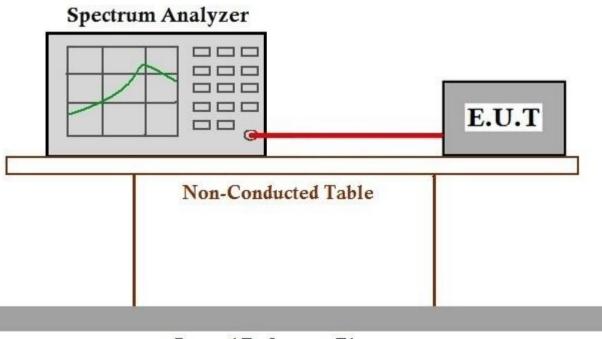
7.1.1 E.U.T. Operation

Operating Environment:

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

Test mode c: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	1.266	Pass
Middle	1.237	Pass
Highest	1.259	Pass



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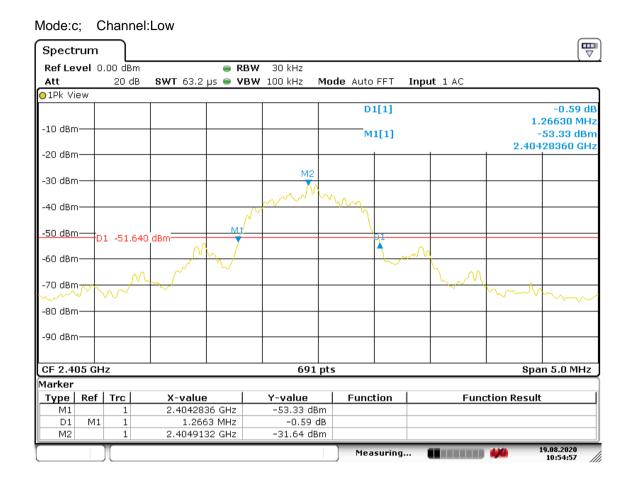
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Mode:c; Channel:middle Spectrum Ref Level 0.00 dBm RBW Att 20 dB SWT 63.2 ⊔s ● VBW 100 kHz Mode Auto FFT Input 1 AC 01Pk View D1[1] -0.11 dB 1.23730 MHz -10 dBm--55.90 dBm M1[1] 2.44728360 GHz -20 dBm--40 dBm-D1 -55,040 d8m -60 dBm--70 dBm--80 d8m--90 dBm-CF 2.448 GHz Span 5.0 MHz 691 pts Marker Type | Function **Function Result** Ref | Trc X-value Y-value 2.4472836 GHz -55.90 dBm M1

-0.11 dB

-35.04 dBm



D1

M2

М1

1

1

1.2373 MHz

2.4479783 GHz

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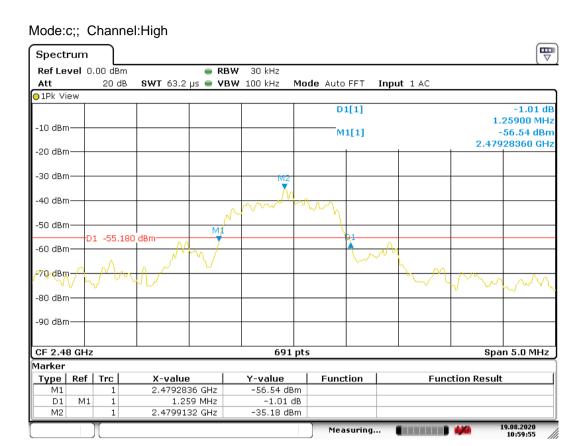
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7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a) 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-Peak.

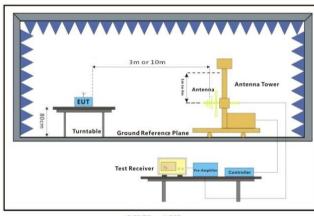
7.2.1 E.U.T. Operation

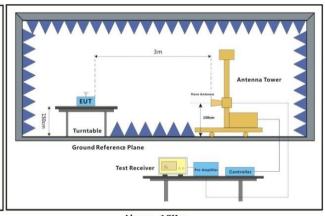
Operating Environment:

Temperature: 24.7 °C 56.9 % RH Atmospheric Pressure: 1010 mbar Humidity:

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

7.2.2 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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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

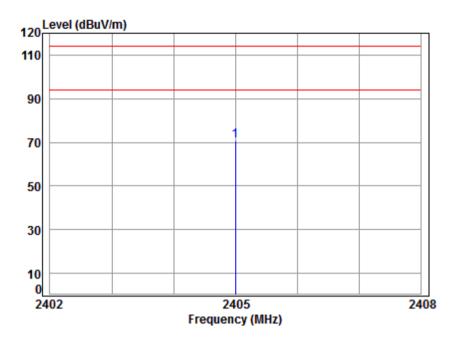




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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07639CR

Mode : 2405 Field Strength

> Ant Preamp Cable Limit 0ver Read

Loss Factor Factor Level Line Limit Remark Freq Level

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

1 pp 2405.000 5.49 29.12 41.88 77.99 70.72 114.00 -43.28 peak



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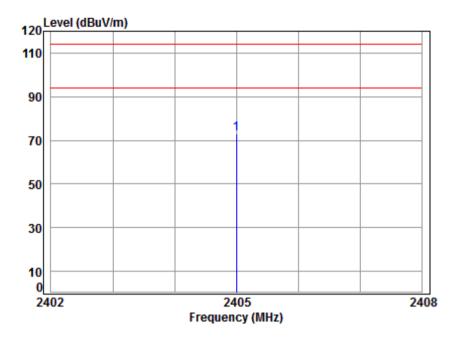
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Condition: 3m VERTICAL Job No : 07639CR

Mode : 2405 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 2405.000 5.49 29.12 41.88 80.15 72.88 114.00 -41.12 peak



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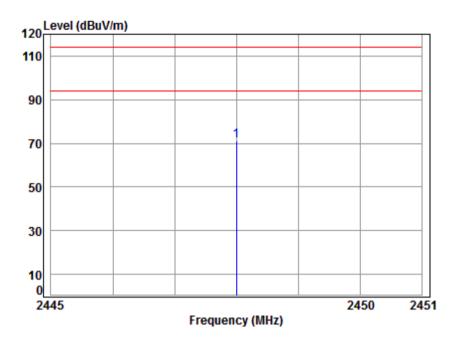
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Condition: 3m HORIZONTAL

Job No : 07639CR

Mode : 2448 Field Strength

> Ant Preamp Cable Limit 0ver Read

Loss Factor Factor Level Line Limit Remark Freq Level

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

5.55 29.25 41.90 78.42 71.32 114.00 -42.68 Peak 1 pp 2448.000



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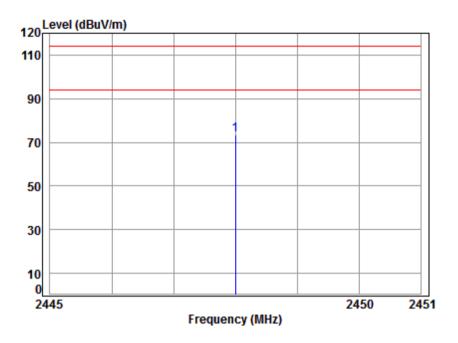
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Condition: 3m VERTICAL Job No : 07639CR

Mode : 2448 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 2448.000 5.55 29.25 41.90 80.34 73.24 114.00 -40.76 Peak



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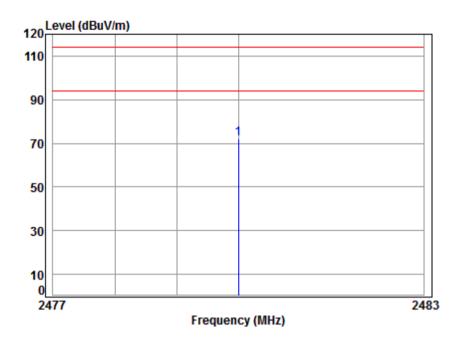
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 07639CR

Mode : 2480 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 2480.000 5.59 29.34 41.91 79.05 72.07 114.00 -41.93 peak



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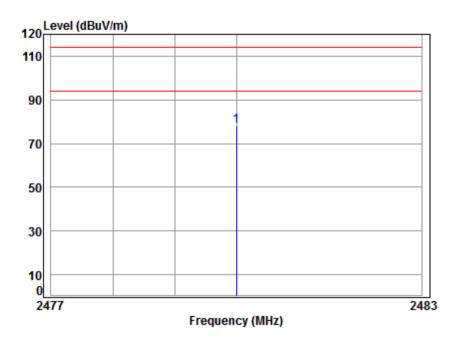
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Condition: 3m VERTICAL Job No : 07639CR

Mode : 2480 Field Strength

> Ant Preamp Cable Read Limit 0ver

Loss Factor Factor Freq Level Limit Remark Level Line

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

5.59 29.34 41.91 85.21 78.23 114.00 -35.77 peak 1 pp 2480.000

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.



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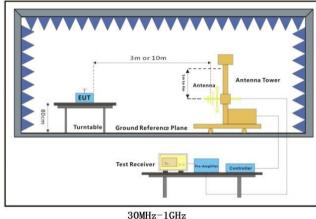
7.3.1 E.U.T. Operation

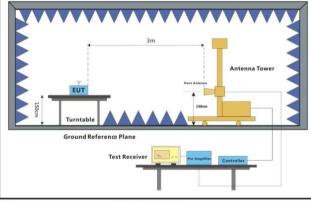
Operating Environment:

Temperature: 24 °C Humidity: 53 % RH Atmospheric Pressure: 1010 mbar

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

7.3.2 Test Setup Diagram





Above 1GHz

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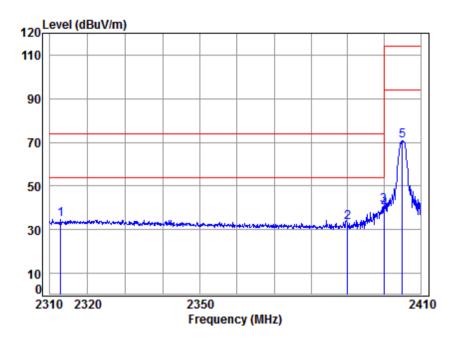
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07639CR

Mode : 2405 Band edge

	Frea			Preamp Factor					Remark
	MHz			dB					
1	2312.841			41.84					
2	2390.000	5.47	29.08	41.87	40.69	33.37	74.00	-40.63	peak
	2399.910 2400.000			41.88 41.88					•
5	2405.000	5.49	29.12	41.88	77.99	70.72	114.00	-43.28	peak



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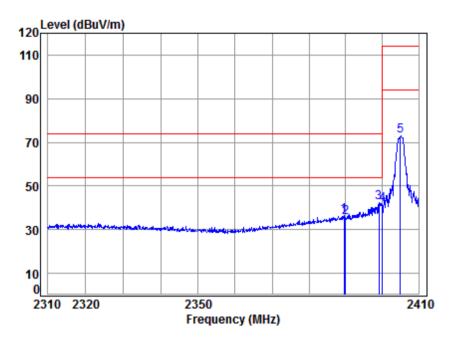
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Condition: 3m VERTICAL Job No : 07639CR

Mode : 2405 Band edge

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.558	5.47	29.08	41.87	43.64	36.32	74.00	-37.68	peak
2	2390.000	5.47	29.08	41.87	42.89	35.57	74.00	-38.43	peak
3 рр	2399.096	5.49	29.10	41.88	49.70	42.41	74.00	-31.59	peak
4	2400.000	5.49	29.11	41.88	48.98	41.70	74.00	-32.30	peak
5	2405.000	5.49	29.12	41.88	80.15	72.88	114.00	-41.12	peak



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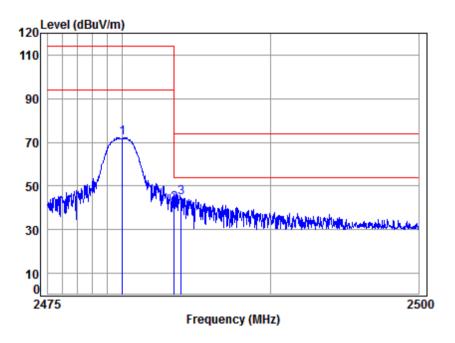
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 07639CR

Mode : 2480 Band edge

	Cable Ant	Preamp	Read		Limit	0ver	
Freq	Loss Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB dB/r	n dB	dBuV	dBuV/m	dBuV/m	dB	
1 2480.000	5.59 29.34	41.91	79.05	72.07	114.00	-41.93	peak
2 2483.500	5.60 29.3	41.91	49.16	42.20	74.00	-31.80	peak
3 pp 2483.971	5.60 29.3	41.91	51.47	44.51	74.00	-29.49	peak



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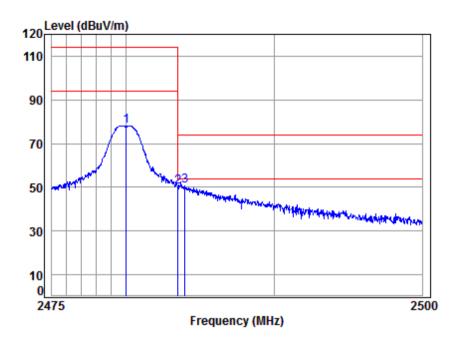
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Condition: 3m VERTICAL Job No : 07639CR

Mode : 2480 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	2480.000	5.59	29.34	41.91	85.21	78.23	114.00	-35.77	peak
2	2483.500	5.60	29.35	41.91	56.94	49.98	74.00	-24.02	peak
3 рр	2483.971	5.60	29.35	41.91	57.69	50.73	74.00	-23.27	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



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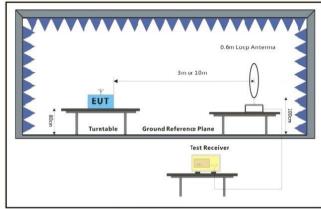
7.4.1 E.U.T. Operation

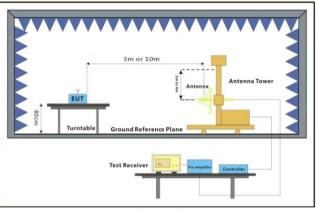
Operating Environment:

Temperature: 24.8 °C Humidity: 57.4 % RH Atmospheric Pressure: 1010 mbar

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

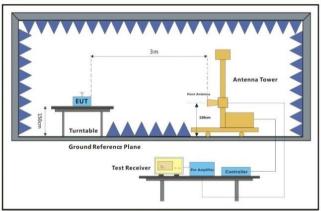
7.4.2 Test Setup Diagram





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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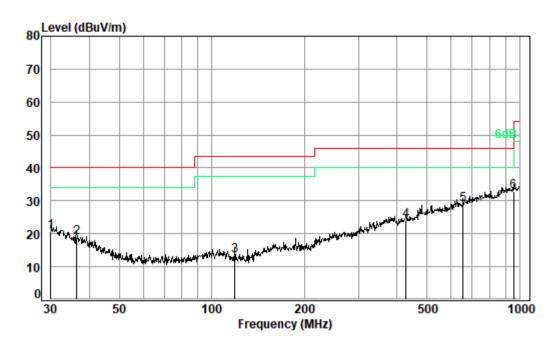


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Radiated emission below 1GHz

Mode: c; Polarization: Horizontal



Condition: 3m HORIZONTAL

Job No. : 07639CR

Test Mode: c

		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	30.00	0.60	23.00	27.74	24.68	20.54	40.00	-19.46	QP
2	36.38	0.67	19.60	27.72	26.31	18.86	40.00	-21.14	QP
3	119.02	1.13	13.07	27.49	26.66	13.37	43.50	-30.13	QP
4	428.02	2.36	22.16	27.52	26.99	23.99	46.00	-22.01	QP
5	656.53	2.82	26.63	28.00	27.41	28.86	46.00	-17.14	QP
6 pp	955.44								_



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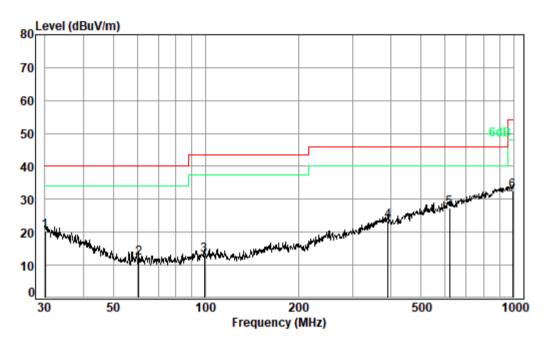
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Mode: c; Polarization: Vertical



Condition: 3m VERTICAL

Job No. : 07639CR

Test Mode: c

		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	30.11	0.60	22.92	27.74	24.72	20.50	40.00	-19.50	QP
2	60.49	0.80	12.85	27.66	26.04	12.03	40.00	-27.97	QP
3	98.83	1.12	13.88	27.61	25.57	12.96	43.50	-30.54	QP
4	390.72	2.28	22.26	27.35	26.30	23.49	46.00	-22.51	QP
5 pp	620.71								_
6				26.69					-



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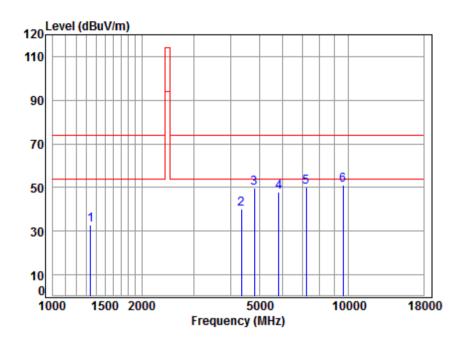


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Above 1GHz

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



Condition: 3m HORIZONTAL

Job No : 07639CR : 2405 TX SE Mode

	Cable	Λnt	D				_	
		AIIC	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1339.006	4.94	25.13	41.29	44.01	32.79	74.00	-41.21	peak
4354.454	7.40	33.60	42.39	41.71	40.32	74.00	-33.68	peak
4810.000	7.90	34.17	42.47	50.12	49.72	74.00	-24.28	peak
5830.640	10.00	34.60	41.75	45.10	47.95	74.00	-26.05	peak
7215.000	10.07	36.41	40.71	44.51	50.28	74.00	-23.72	peak
9620.000	10.75	37.52	37.72	40.37	50.92	74.00	-23.08	peak
	MHz 1339.006 4354.454 4810.000 5830.640 7215.000	MHz dB 1339.006 4.94 4354.454 7.40 4810.000 7.90 5830.640 10.00 7215.000 10.07	MHz dB dB/m 1339.006 4.94 25.13 4354.454 7.40 33.60 4810.000 7.90 34.17 5830.640 10.00 34.60 7215.000 10.07 36.41	MHz dB dB/m dB 1339.006 4.94 25.13 41.29 4354.454 7.40 33.60 42.39 4810.000 7.90 34.17 42.47 5830.640 10.00 34.60 41.75 7215.000 10.07 36.41 40.71	MHz dB dB/m dB dBuV 1339.006 4.94 25.13 41.29 44.01 4354.454 7.40 33.60 42.39 41.71 4810.000 7.90 34.17 42.47 50.12 5830.640 10.00 34.60 41.75 45.10 7215.000 10.07 36.41 40.71 44.51	MHz dB dB/m dB dBuV dBuV/m 1339.006 4.94 25.13 41.29 44.01 32.79 4354.454 7.40 33.60 42.39 41.71 40.32 4810.000 7.90 34.17 42.47 50.12 49.72 5830.640 10.00 34.60 41.75 45.10 47.95 7215.000 10.07 36.41 40.71 44.51 50.28	MHz dB dB/m dB dBuV dBuV/m dBuV/m 1339.006 4.94 25.13 41.29 44.01 32.79 74.00 4354.454 7.40 33.60 42.39 41.71 40.32 74.00 4810.000 7.90 34.17 42.47 50.12 49.72 74.00 5830.640 10.00 34.60 41.75 45.10 47.95 74.00 7215.000 10.07 36.41 40.71 44.51 50.28 74.00	1339.006



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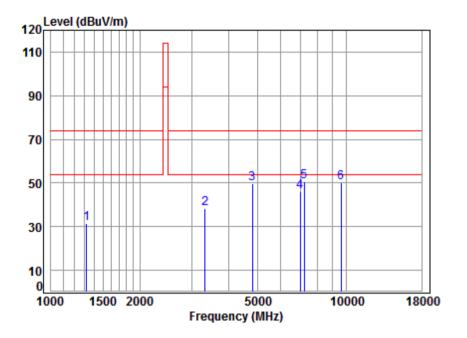
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Condition: 3m VERTICAL

Job No : 07639CR

: 2405 TX SE Mode

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794	4.87	25.04	41.28	42.78	31.41	74.00	-42.59	peak
2	3328.077	6.30	31.91	42.18	42.18	38.21	74.00	-35.79	peak
3	4810.000	7.90	34.17	42.47	50.33	49.93	74.00	-24.07	peak
4	6995.172								
5 pp	7215.000	10.07	36.41	40.71	44.77	50.54	74.00	-23.46	peak
6	9620.000	10.75	37.52	37.72	39.77	50.32	74.00	-23.68	peak



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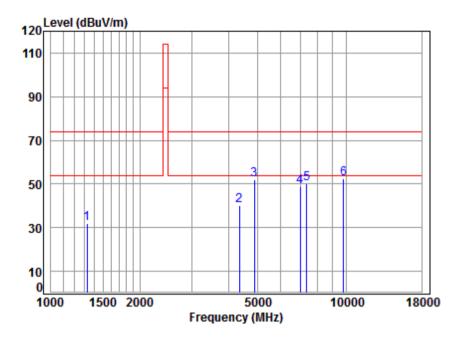
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Condition: 3m HORIZONTAL

Job No : 07639CR : 2448 TX SE Mode

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	1323.614	4.88	25.06	41.28	43.43	32.09	74.00	-41.91	peak
	4354.454	7.40	33.60	42.39	41.39	40.00	74.00	-34.00	peak
	4896.000	7.98	34.32	42.48	52.32	52.14	74.00	-21.86	Peak
	6995.172	10.14	36.49	40.86	42.98	48.75	74.00	-25.25	peak
	7338.000	10.04	36.36	40.62	44.45	50.23	74.00	-23.77	peak
pp	9792.000	10.84	37.56	37.48	41.54	52.46	74.00	-21.54	peak



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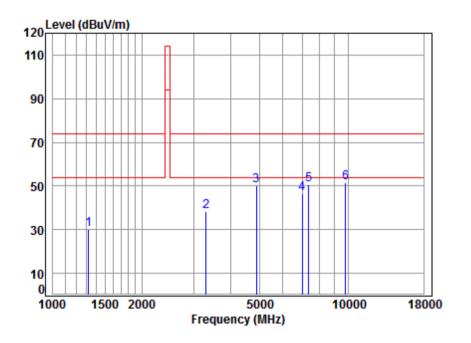
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Condition: 3m VERTICAL

Job No : 07639CR Mode : 2448 TX SE

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

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1319.794	4.87	25.04	41.28	41.64	30.27	74.00	-43.73 peak
2	3308.894	6.29	31.87	42.18	42.13	38.11	74.00	-35.89 peak
3	4896.000	7.98	34.32	42.48	50.30	50.12	74.00	-23.88 peak
4	6974.982	10.20	36.43	40.87	40.57	46.33	74.00	-27.67 peak
5	7344.000	10.04	36.36	40.62	44.71	50.49	74.00	-23.51 peak
6 p	p 9792.000	10.84	37.56	37.48	40.80	51.72	74.00	-22.28 peak



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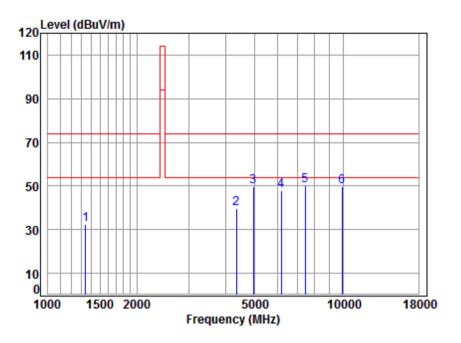
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Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 07639CR Mode : 2480 TX SF

_	. 240	0 17 3	_							
		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		
	1339.006	4.94	25.13	41.29	43.70	32.48	74.00	-41.52	peak	
	4354.454	7.40	33.60	42.39	41.07	39.68	74.00	-34.32	peak	
	4960.000	8.05	34.43	42.49	49.58	49.57	74.00	-24.43	peak	
	6177.627	10.92	34.85	41.47	43.59	47.89	74.00	-26.11	peak	
pp	7440.000	10.02	36.32	40.56	44.31	50.09	74.00	-23.91	peak	
	9920.000	10.90	37.58	37.31	38.61	49.78	74.00	-24.22	Peak	



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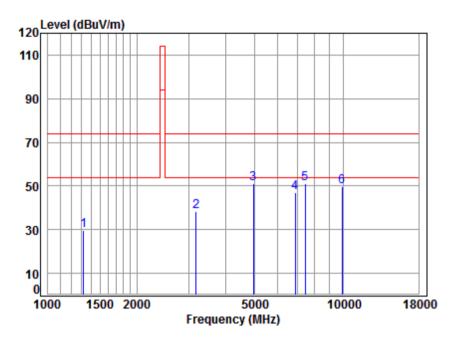
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Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Condition: 3m VERTICAL

Job No : 07639CR Mode : 2480 TX SE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794	4.87	25.04	41.28	41.13	29.76	74.00	-44.24	peak
2	3177.672	6.16	31.64	42.15	42.80	38.45	74.00	-35.55	peak
3	4960.000	8.05	34.43	42.49	50.90	50.89	74.00	-23.11	peak
4	6874.906	10.47	36.16	40.94	41.25	46.94	74.00	-27.06	peak
5 pp	7440.000	10.02	36.32	40.56	45.16	50.94	74.00	-23.06	peak
6	9920.000	10.90	37.58	37.31	38.60	49.77	74.00	-24.23	peak



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8 **Photographs**

8.1 Test Setup

Please refer to setup photos.

8.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.

- End of the Report -



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