

Report No.: SZEM200700686002

Page: 1 of 37

TEST REPORT

Application No.: SZEM2007006860CR

Applicant: Guangdong Yinrun Industry Co., LTD.

Address of Applicant: Yinrun Ind. Garden, Laimei Zone, Chenghai, Shantou Guangdong 515041

China

Manufacturer: Guangdong Yinrun Industry Co., LTD.

Address of Manufacturer: Yinrun Ind. Garden, Laimei Zone, Chenghai, Shantou Guangdong 515041

China

Equipment Under Test (EUT):

EUT Name: Mini Monster Spinning Car

Model No.: 10031, 10032, 10033, 10036, ST18172, 29136, 29379, 10034, 10035,

516644, 516648, 347346

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

actually tested and which were electrically identical.

FCC ID: XHT10031-32TG

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

Date of Receipt: 2020-07-22

Date of Test: 2020-07-23 to 2020-09-03

Date of Issue: 2020-09-03

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.



Report No.: SZEM200700686002

Page: 2 of 37

| | Revision Record | | | | | | |
|---------|------------------------------------|------------|--|----------|--|--|--|
| Version | Version Chapter Date Modifier Rema | | | | | | |
| 01 | | 2020-09-03 | | Original | | | |
| | | | | | | | |
| | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|-----------------------------|--|
| | Peter. Goog | |
| | Peter Geng/Project Engineer | |
| | EvicFu | |
| | Eric Fu/Reviewer | |



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Report No.: SZEM200700686002

Page: 3 of 37

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 6.4&6.5&6.6 | 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.: 10031, 10032, 10033, 10036, ST18172, 29136, 29379, 10034, 10035, 516644, 516648, 347346

Only the model 10031 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, package and assort



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Report No.: SZEM200700686002

Page: 4 of 37

Contents

| | 00/50 0405 | Page |
|---|--|------|
| 1 | | |
| 2 | 2 TEST SUMMARY | 3 |
| 3 | 3 CONTENTS | 4 |
| 4 | 4 GENERAL INFORMATION | E |
| 4 | | |
| | 4.1 DETAILS OF E.U.T. 4.2 DESCRIPTION OF SUPPORT UNITS | |
| | 4.2 DESCRIPTION OF SUPPORT UNITS | |
| | 4.4 TEST LOCATION | |
| | 4.5 TEST FACILITY | |
| | 4.6 DEVIATION FROM STANDARDS | |
| | 4.7 ABNORMALITIES FROM STANDARD CONDITIONS | |
| | 4.8 EMS MONITOR | |
| 5 | | |
| • | | |
| 6 | RADIO SPECTRUM TECHNICAL REQUIREMENT | 9 |
| | 6.1 ANTENNA REQUIREMENT | g |
| | 6.1.1 Test Requirement: | |
| | 6.1.2 Conclusion | 9 |
| 7 | 7 RADIO SPECTRUM MATTER TEST RESULTS | 10 |
| | 7.1 20DB BANDWIDTH | 1C |
| | 7.1.1 E.U.T. Operation | 10 |
| | 7.1.2 Test Setup Diagram | |
| | 7.1.3 Measurement Procedure and Data | |
| | 7.2 FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL (15.249(A)) | |
| | 7.2.1 E.U.T. Operation | |
| | 7.2.2 Test Setup Diagram | |
| | 7.2.3 Measurement Procedure and Data | |
| | 7.3 RESTRICTED BAND AROUND FUNDAMENTAL FREQUENCY | |
| | 7.3.1 E.U.T. Operation | |
| | 7.3.3 Test Setup Diagram | |
| | 7.3.4 Measurement Procedure and Data | |
| | 7.4 RADIATED EMISSIONS | |
| | 7.4.1 E.U.T. Operation | |
| | 7.4.2 Test Mode Description | |
| | 7.4.3 Test Setup Diagram | |
| | 7.4.4 Measurement Procedure and Data | 30 |
| 8 | 3 TEST SETUP PHOTO | 37 |
| | | |
| 9 | EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS) | 37 |



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Report No.: SZEM200700686002

Page: 5 of 37

4 General Information

4.1 Details of E.U.T.

| Power adapter: | remote: DC 9V by 6F22 battery |
|----------------------|-------------------------------|
| Operation frequency: | 2422-2462MHz |
| Modulation type: | GFSK |
| Channel number: | 41 |
| Channel separation: | 1MHz |
| Antenna type: | Wire antenna |
| Antenna gain: | 2.1dBi |

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|--|---|
| 20dB Bandwidth | ± 3% |
| Field Strength of the Fundamental Signal (15.249(a)) | ± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz) |
| Restricted Band Around Fundamental Frequency | ± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz) |
| Radiated Emissions | ± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz) |

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR 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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Report No.: SZEM200700686002

Page: 6 of 37

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.

VCCI

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

4.8 EMS Monitor

Visual: monitor the working status of the EUT

Audio: none



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Report No.: SZEM200700686002

Page: 7 of 37

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 | FSP | SEM004-06 | 2019-09-24 | 2020-09-23 |
| Measurement Software | TST | TST PASS V1.0.5 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-02 | 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 | |





Report No.: SZEM200700686002

Page: 8 of 37

| 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 | |
| EXA Signal Analyzer | Agilent Technologies Inc | N9010A | SEM004-12 | 2020-04-09 | 2021-04-08 | |
| Horn Antenna | Rohde&Schwarz | HF907 | SEM003-07 | 2018-04-13 | 2021-04-12 | |
| Pre-Amplifier | Compliance Directions Systems Inc. | PAP-0126 | SEM004-11 | 2019-09-24 | 2020-09-23 | |
| 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 | |
| Horn Antenna | Schwarzbeck | BBHA 9170 | SEM003-15 | 2017-10-17 | 2020-10-16 | |
| Pre-Amplifier | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2020-04-01 | 2021-03-31 | |

| Radiated Emissions | | | | | |
|-----------------------------|----------------------|---------------------|--------------|------------|--------------|
| 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 |
| MXE EMI Receiver | Agilent Technologies | 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 |
| 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 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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Report No.: SZEM200700686002

Page: 9 of 37

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 2.1dBi

Antenna location: Refer to Internal photos



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Report No.: SZEM200700686002

Page: 10 of 37

Radio Spectrum Matter Test Results 7

7.1 20dB Bandwidth

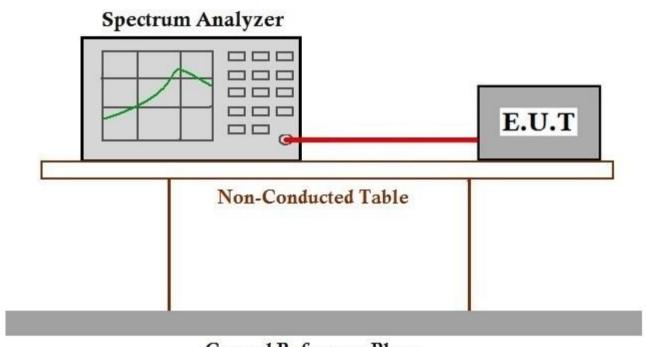
47 CFR Part 15, Subpart C 15.215 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.9

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 58.7 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data



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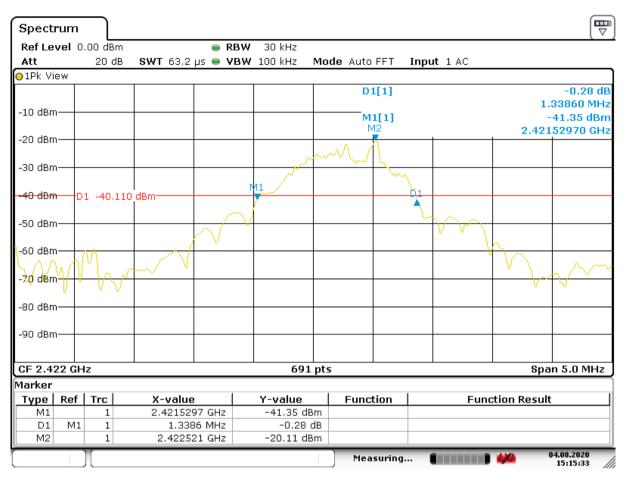
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Page: 11 of 37



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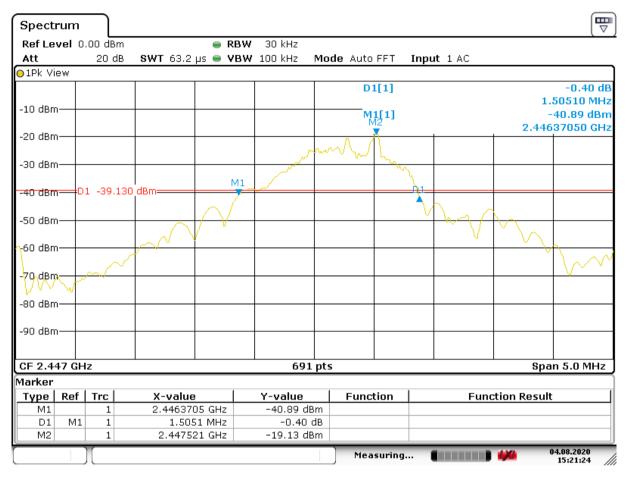
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Page: 12 of 37



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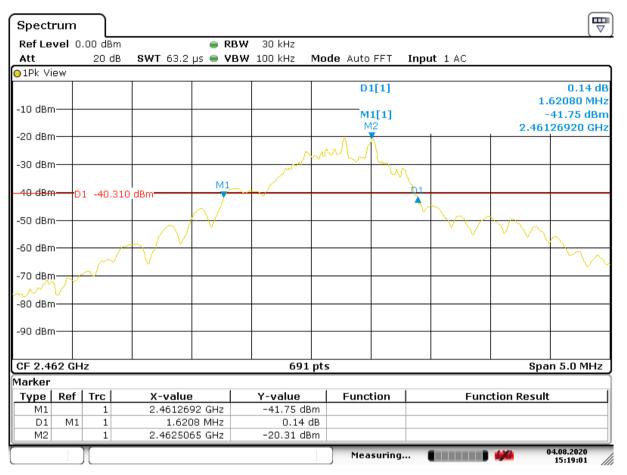
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Page: 14 of 37

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

Test Requirement 47 CFR Part 15, Subpart C 15.249 ANSI C63.10 (2013) Section 6.5&6.6 Test Method:

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.

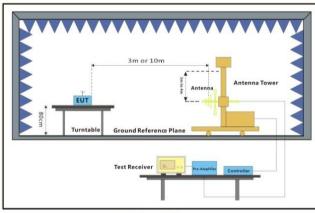
For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

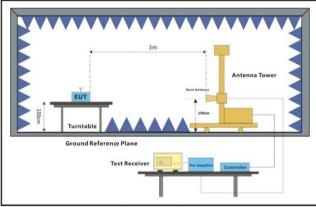
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 58.7 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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Report No.: SZEM200700686002

Page: 15 of 37

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



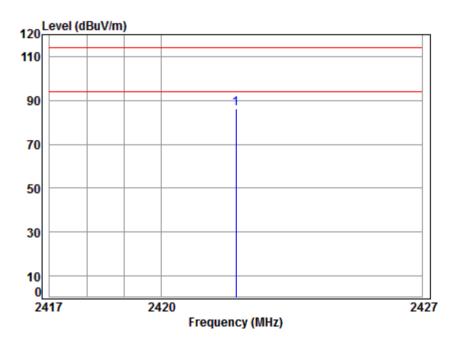
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Report No.: SZEM200700686002

Page: 16 of 37

Mode:01; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 06860CR

Mode : 2422 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 2422.000 5.52 29.17 41.89 93.35 86.15 114.00 -27.85 peak



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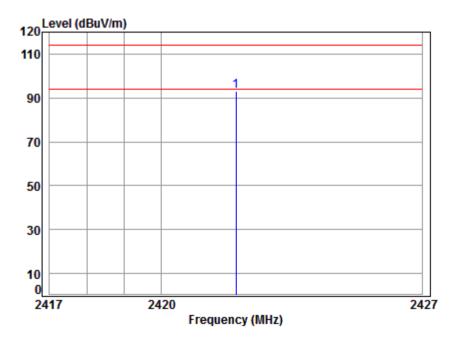
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Report No.: SZEM200700686002

Page: 17 of 37

Mode:01; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Condition: 3m VERTICAL

Job No : 06860CR

Mode : 2422 Field Strength

Cable Ant Preamp Read Limit Over

Freg Loss Factor Factor Level Level Line Limit Remark

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

1 pp 2422.000 5.52 29.17 41.89 100.18 92.98 114.00 -21.02 peak



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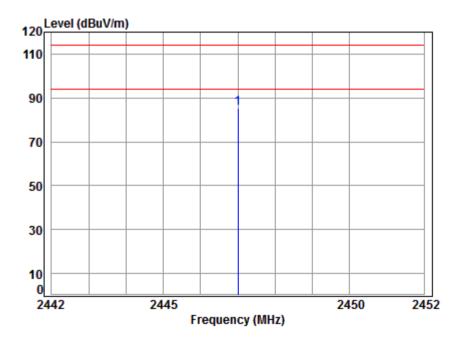
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Report No.: SZEM200700686002

Page: 18 of 37

Mode:01; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Condition: 3m HORIZONTAL

Job No : 06860CR

Mode : 2447 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 2447.000 5.55 29.25 41.90 92.63 85.53 114.00 -28.47 Peak



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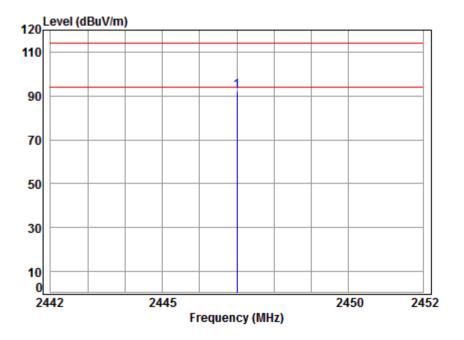
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Page: 19 of 37

Mode:01; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Condition: 3m VERTICAL

Job No : 06860CR

Mode : 2447 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 2447.000 5.55 29.25 41.90 99.33 92.23 114.00 -21.77 Peak



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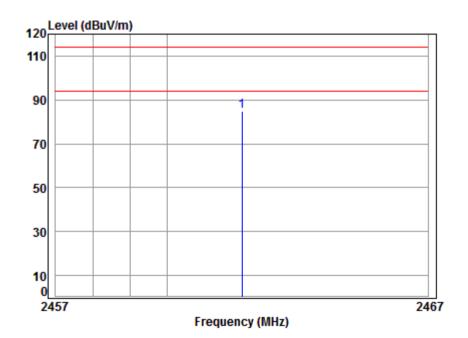
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Report No.: SZEM200700686002

Page: 20 of 37

Mode:01; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 06860CR

: 2462 Field Strength Mode

> Ant Preamp Limit 0ver Cable Read

Loss Factor Factor Freq Level Level Line Limit Remark

MHz dBuV dBuV/m dBuV/m dB dB/m dΒ

5.57 29.29 41.90 92.13 85.09 114.00 -28.91 peak 1 pp 2462.000



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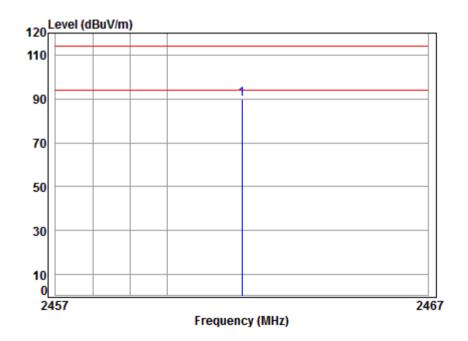
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Report No.: SZEM200700686002

Page: 21 of 37

Mode:01; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Condition: 3m VERTICAL

Job No : 06860CR

Mode : 2462 Field Strength

Cable Ant Preamp Read Limit Over

Freg Loss Factor Factor Level Level Line Limit Remark

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

1 pp 2462.000 5.57 29.29 41.90 97.07 90.03 114.00 -23.97 peak



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Report No.: SZEM200700686002

Page: 22 of 37

7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.249
Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

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

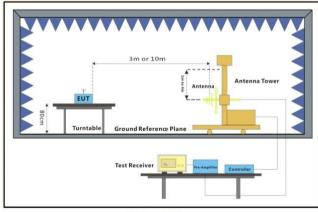
Operating Environment:

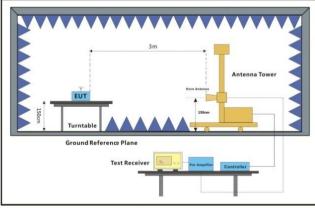
Temperature: 24.2 °C Humidity: 58.7 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 01 | TX mode_Keep the EUT in transmitting with modulation mode. |

7.3.3 Test Setup Diagram





30MHz-1GHz Above 1GHz



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Page: 23 of 37

7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

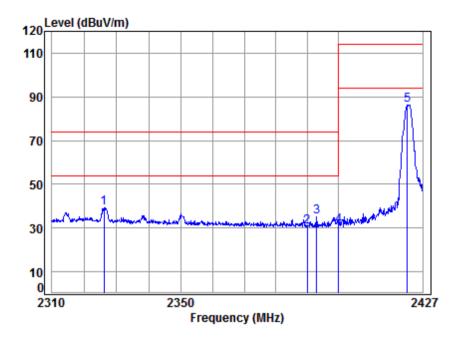




Report No.: SZEM200700686002

Page: 24 of 37

Mode:01; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 06860CR

Mode : 2422 Band edge

| | | Freq | | | Preamp Factor | | | | | Remark |
|---|----|----------|------|-------|------------------|-------|--------|--------|--------|--------|
| | - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | | 2326.034 | 5.39 | 28.88 | 41.85 | 43.53 | 39.23 | 74.00 | -34.77 | peak |
| 2 | | 2390.000 | 5.47 | 29.08 | 41.87 | 37.47 | 30.70 | 74.00 | -43.30 | peak |
| 3 | | 2392.946 | 5.48 | 29.09 | 41.87 | 41.81 | 34.97 | 74.00 | -39.03 | Peak |
| 4 | | 2400.000 | 5.49 | 29.11 | 41.88 | 38.00 | 30.96 | 114.00 | -83.04 | peak |
| 5 | pp | 2422.000 | 5.52 | 29.17 | 41.89 | 93.08 | 86.15 | 114.00 | -27.85 | peak |



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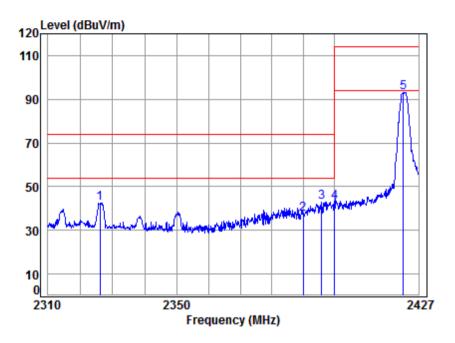
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Report No.: SZEM200700686002

Page: 25 of 37

Mode:01; Polarization: Vertical; Modulation: GFSK; ; Channel: Low



Condition: 3m VERTICAL Job No : 06860CR

Mode : 2422 Band edge

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 2326.149 5.39 28.88 41.85 49.18 42.53 74.00 -31.47 peak 1 2 29.08 41.87 40.34 37.62 74.00 -36.38 peak 2390.000 5.47 3 2395.785 5.48 29.09 41.87 44.58 43.06 74.00 -30.94 peak 2400.000 5.49 29.11 41.88 43.38 42.73 114.00 -71.27 peak 5 pp 2422.000 5.52 29.17 41.89 93.79 92.98 114.00 -21.02 peak



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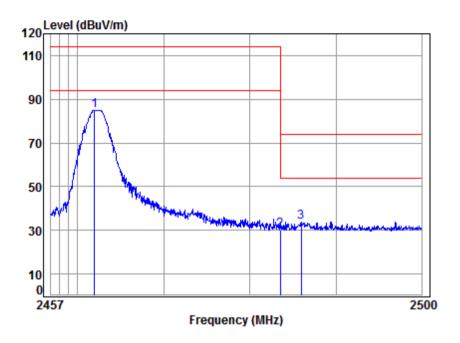
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Report No.: SZEM200700686002

Page: 26 of 37

Mode:01; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 06860CR

Mode : 2462 Band edge

| | Freq | | | Preamp Factor | | | | | Remark |
|------|----------|------|-------|------------------|-------|--------|--------|--------|--------|
| - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2462.000 | 5.57 | 29.29 | 41.90 | 92.28 | 85.09 | 114.00 | -28.91 | peak |
| 2 | 2483.500 | 5.60 | 29.35 | 41.91 | 37.83 | 30.33 | 114.00 | -83.67 | peak |
| 3 | 2485.986 | 5.60 | 29.36 | 41.91 | 41.26 | 33.76 | 74.00 | -40.24 | peak |



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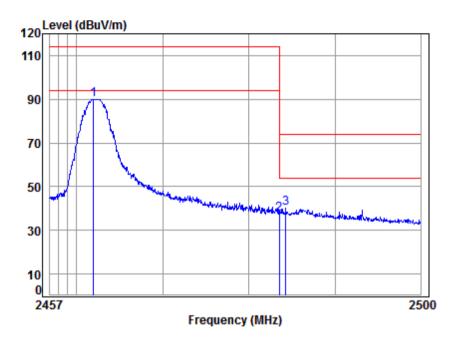
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Report No.: SZEM200700686002

Page: 27 of 37

Mode:01; Polarization: Vertical; Modulation: GFSK; ; Channel: High



Condition: 3m VERTICAL Job No : 06860CR

2484.261

Mode : 2462 Band edge

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1 pp 2462.000 5.57 29.29 41.90 90.28 90.03 114.00 -23.97 peak 2483.500 29.35 41.91 38.21 37.54 114.00 -76.46 peak 5.60

5.60 29.35 41.91 41.19 40.30 74.00 -33.70 peak



2

3

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Report No.: SZEM200700686002

Page: 28 of 37

7.4 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.249

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 |

7.4.1 E.U.T. Operation

Operating Environment:

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

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 01 | TX mode_Keep the EUT in transmitting with modulation mode. |



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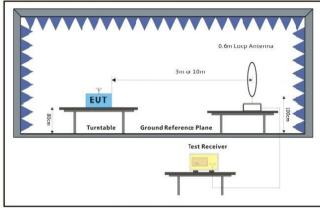
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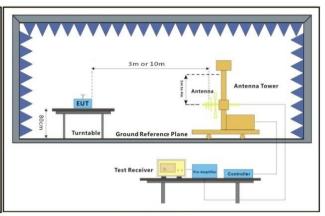


Report No.: SZEM200700686002

Page: 29 of 37

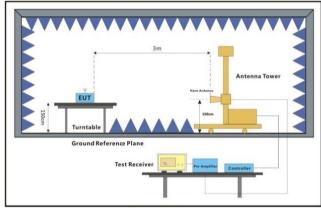
7.4.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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Report No.: SZEM200700686002

Page: 30 of 37

7.4.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, guasi-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.
- i. 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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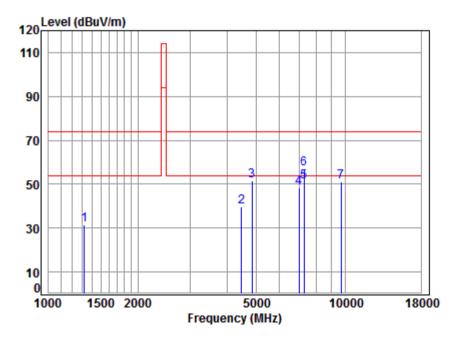
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Report No.: SZEM200700686002

Page: 31 of 37

Mode:01; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 06860CR Mode : 2422 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 | 1319.794 | 4.87 | 25.04 | 41.28 | 37.73 | 31.50 | 74.00 | -42.50 | peak |
| 2 | 4469.214 | 7.53 | 33.60 | 42.41 | 36.10 | 39.80 | 74.00 | -34.20 | peak |
| 3 | 4844.000 | 7.93 | 34.23 | 42.48 | 42.60 | 51.38 | 74.00 | -22.62 | peak |
| 4 | 6974.982 | 10.20 | 36.43 | 40.87 | 37.59 | 48.30 | 74.00 | -25.70 | peak |
| 5 pp | 7266.000 | 10.06 | 36.39 | 40.67 | 40.41 | 51.19 | 54.00 | -2.81 | Average |
| 6 pk | 7266.000 | 10.06 | 36.39 | 40.67 | 46.43 | 57.21 | 74.00 | -16.79 | peak |
| 7 | 9688.000 | 10.79 | 37.54 | 37.63 | 37.31 | 51.01 | 74.00 | -22.99 | peak |



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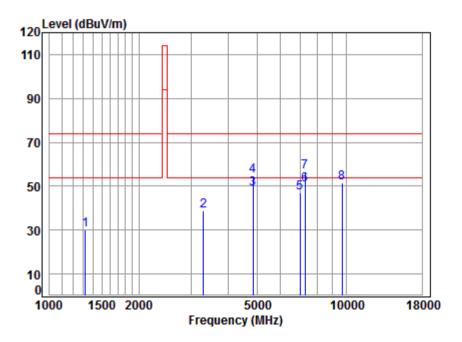
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Report No.: SZEM200700686002

Page: 32 of 37

Mode:01; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Condition: 3m VERTICAL Job No : 06860CR Mode : 2422 TX SE

Cable Ant Preamp Read Limit 0ver Frea Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 1319.794 4.87 25.04 41.28 37.59 30.02 74.00 -43.98 peak 2 3299.344 6.28 31.86 42.17 40.41 38.60 74.00 -35.40 peak 34.23 42.48 40.13 48.91 54.00 -5.09 Average 3 7.93 4844.000 4 4844.000 7.93 34.23 42.48 46.15 54.93 74.00 -19.07 peak 5 6974.982 10.20 36.43 40.87 36.97 46.97 74.00 -27.03 peak pp 7266.000 10.06 36.39 40.67 39.80 50.58 54.00 -3.42 Average 7 pk 7266.000 10.06 36.39 40.67 45.82 56.60 74.00 -17.40 peak 9688.000 10.79 37.54 37.63 37.72 51.42 74.00 -22.58 peak



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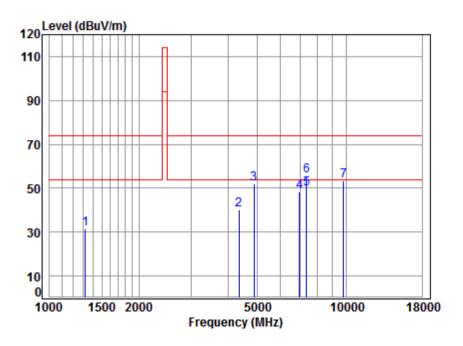
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Report No.: SZEM200700686002

Page: 33 of 37

Mode:01; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Condition: 3m HORIZONTAL

Job No : 06860CR Mode : 2447 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 | 1319.794 | 4.87 | 25.04 | 41.28 | 37.79 | 31.56 | 74.00 | -42.44 | peak |
| 2 | 4354.454 | 7.40 | 33.60 | 42.39 | 36.21 | 40.17 | 74.00 | -33.83 | peak |
| 3 | 4894.000 | 7.98 | 34.32 | 42.48 | 44.04 | 51.85 | 74.00 | -22.15 | peak |
| 4 | 6954.852 | 10.25 | 36.38 | 40.89 | 37.81 | 48.49 | 74.00 | -25.51 | peak |
| 5 pp | 7341.000 | 10.04 | 36.36 | 40.62 | 38.88 | 49.66 | 54.00 | -4.34 | Average |
| 6 pk | 7341.000 | 10.04 | 36.36 | 40.62 | 44.90 | 55.68 | 74.00 | -18.32 | peak |
| 7 | 9788.000 | 10.84 | 37.56 | 37.49 | 39.65 | 53.56 | 74.00 | -20.44 | peak |



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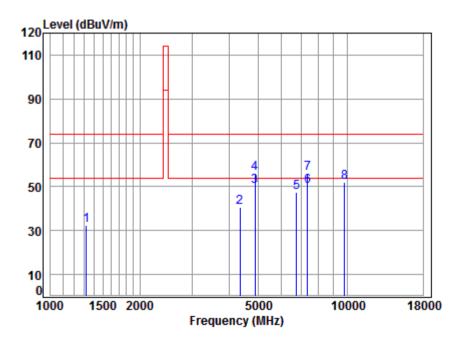
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Report No.: SZEM200700686002

Page: 34 of 37

Mode:01; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Condition: 3m VERTICAL

Job No : 06860CR Mode : 2447 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 | | 1319.794 | 4.87 | 25.04 | 41.28 | 39.99 | 32.42 | 74.00 | -41.58 | peak |
| 2 | | 4354.454 | 7.40 | 33.60 | 42.39 | 40.71 | 40.53 | 74.00 | -33.47 | peak |
| 3 | pp | 4894.000 | 7.98 | 34.32 | 42.48 | 40.40 | 50.22 | 54.00 | -3.78 | Average |
| 4 | pk | 4894.000 | 7.98 | 34.32 | 42.48 | 46.42 | 56.24 | 74.00 | -17.76 | peak |
| 5 | | 6737.207 | 10.86 | 35.78 | 41.04 | 38.63 | 47.63 | 74.00 | -26.37 | peak |
| 6 | | 7341.000 | 10.04 | 36.36 | 40.62 | 39.36 | 50.14 | 54.00 | -3.86 | Average |
| 7 | | 7341.000 | 10.04 | 36.36 | 40.62 | 45.38 | 56.16 | 74.00 | -17.84 | peak |
| 8 | | 9788.000 | 10.84 | 37.56 | 37.49 | 38.25 | 52.16 | 74.00 | -21.84 | peak |



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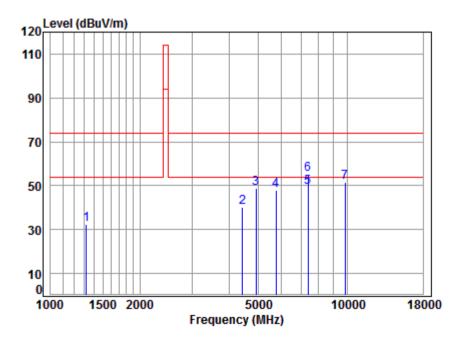
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Report No.: SZEM200700686002

Page: 35 of 37

Mode:01; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 06860CR Mode : 2462 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 | 1319.794 | 4.87 | 25.04 | 41.28 | 38.48 | 32.25 | 74.00 | -41.75 | peak |
| 2 | 4430.628 | 7.48 | 33.60 | 42.41 | 36.34 | 40.01 | 74.00 | -33.99 | peak |
| 3 | 4924.000 | 8.01 | 34.37 | 42.49 | 44.44 | 48.66 | 74.00 | -25.34 | peak |
| 4 | 5763.617 | 9.78 | 34.56 | 41.80 | 38.79 | 48.13 | 74.00 | -25.87 | peak |
| 5 p | p 7386.000 | 10.03 | 36.34 | 40.59 | 38.32 | 49.10 | 54.00 | -4.90 | Average |
| 6 pl | k 7386.000 | 10.03 | 36.34 | 40.59 | 44.34 | 55.12 | 74.00 | -18.88 | peak |
| 7 | 9848.000 | 10.87 | 37.57 | 37.41 | 37.51 | 51.54 | 74.00 | -22.46 | peak |



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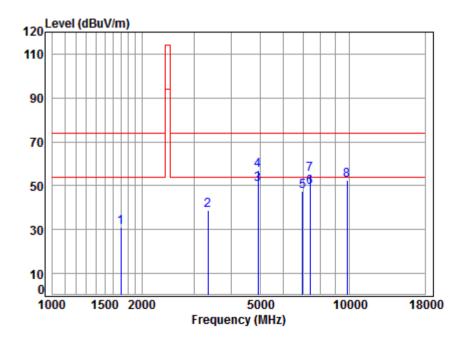
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Report No.: SZEM200700686002

Page: 36 of 37

Mode:01; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Condition: 3m VERTICAL

Job No : 06860CR Mode : 2462 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 | | 1702.042 | 5.23 | 26.68 | 41.53 | 38.53 | 30.80 | 74.00 | -43.20 | peak |
| 2 | | 3347.371 | 6.32 | 31.94 | 42.19 | 40.09 | 38.85 | 74.00 | -35.15 | peak |
| 3 | pp | 4924.000 | 8.01 | 34.37 | 42.49 | 40.96 | 50.85 | 54.00 | -3.15 | Average |
| 4 | pk | 4924.000 | 8.01 | 34.37 | 42.49 | 46.98 | 56.87 | 74.00 | -17.13 | peak |
| 5 | | 6954.852 | 10.25 | 36.38 | 40.89 | 37.53 | 47.44 | 74.00 | -26.56 | peak |
| 6 | | 7386.000 | 10.03 | 36.34 | 40.59 | 38.60 | 49.38 | 54.00 | -4.62 | Average |
| 7 | | 7386.000 | 10.03 | 36.34 | 40.59 | 44.62 | 55.40 | 74.00 | -18.60 | peak |
| 8 | | 9848.000 | 10.87 | 37.57 | 37.41 | 38.27 | 52.30 | 74.00 | -21.70 | peak |



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Report No.: SZEM200700686002

Page: 37 of 37

8 Test Setup Photo

Please refer to setup photo.

9 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.

- End of the Report -



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