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Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM170500522902

Fax: +86 (0) 755 2671 0594 Page: 1 of 37

TEST REPORT

Application No.: SZEM1705005229CR

Applicant: GUANGDONG SONGYANG PLASTIC TOYS CO., LTD

Address of Applicant: HuaiNan, a section 324 National Highway, Lianxia Town, Chenhai, Shantou,

Guangdong, China

Manufacturer: GUANGDONG SONGYANG PLASTIC TOYS CO., LTD

Address of Manufacturer: Huainan Road, Lianxia Town, Chenghai Area, Shantou City, Guangdong,

P.R.China

Factory: GUANGDONG SONGYANG PLASTIC TOYS CO., LTD

Address of Factory: Huainan Road, Lianxia Town, Chenghai Area, Shantou City, Guangdong,

P.R.China

Equipment Under Test (EUT):

EUT Name: REMOTE CONTROL AIRCRAFT

Model No.: Please refer to the remark on section 2 &

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

tested and which were electrically identical.

FCC ID: 2AEXV85161288

Standards: 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2017-05-26

Date of Test: 2017-05-31 to 2017-06-13

Date of Issue: 2017-06-17

Test Result : Pass*



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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



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| Revision Record | | | | | | |
|-----------------|---------|------------|----------|----------|--|--|
| Version | Chapter | Date | Modifier | Remark | | |
| 01 | | 2017-06-17 | | Original | | |
| | | | | | | |
| | | | | | | |

| Authorized for issue by: | | |
|--------------------------|-----------------------------|--|
| | Brix Chen | |
| | Bill Chen /Project Engineer | |
| | Eric Fu | |
| | Eric Fu /Reviewer | |



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2 Test Summary

| Radio Spectrum Technical Requirement | | | | | | |
|--------------------------------------|-------------------------------------|--------|-------------------------------------|--------|--|--|
| Item | Standard | Method | Requirement | Result | | |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.249 | N/A | 47 CFR Part 15, Subpart C 15.203 | Pass | | |

| Radio Spectrum Matter Part | | | | | | | |
|--|-------------------------------------|---|--|--------|--|--|--|
| Item | Standard | Method | Requirement | Result | | | |
| 20dB Bandwidth | 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 | | | |

Remark:

Model No.:

X1, X1B, X1C, X2, X2B, X2C, X3, X3B, X3C, X4, X4B, X4C, X5, X5B, X5C,

X6, X6B, X6C, X6B-3, X6C-3, X7, X7B, X7C, X8, X8B, X8C, X9, X9B, X9C,

X9B-3, X9C-3, X9G, X9G-3, X10, X10B, X10C, X11, X11B, X11C, X12,

X12B, X12C, X13, X13B, X13C, X14, X14B, X14C, X15, X15B, X15C, X16,

X16B, X16C, X17, X17B, X17C, X18, X18B, X18C, X19, X19B, X19C, X20,

X20B, X20C, X21, X21B, X21C, X21B-3, X21C-3, X22, X22B, X22C, X23,

X23B, X23C, X24, X24B, X24C, X25, X25B, X25C, X26, X26B, X26C, X27,

X27B, X27C, X28, X28B, X28C, X29, X29B, X29C, X30, X30B, X30C, X31,

X31B, X31C, X32, X32B, X32C, X33, X33B, X33C, X33B-3, X33C-3, X34,

X34B, X34C, X34B-3, X34C-3, X34G, X34G-3, X35, X35B, X35C, X36, X36B,

X36C, X36B-3, X36C-3, X37, X37B, X37C, X38, X38B, X38C, X39, X39B,

X39C, X40, X40B, X40C, X41, X41B, X41C, X42, X42B, X42C, X43, X43B,

X43C, X44, X44B, X44C, X45, X45B, X45C, X46, X46B, X46C, X47, X47B,

X47C, X48, X48B, X48C, X49, X49B, X49C, X50, X50B, X50C, PL2600,

PT1645, PT1610

Only the model X33 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, only different on model No. and appearance of the structure.



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4 General Information

4.1 Details of E.U.T.

Carrier Frequency: 2405MHz-2475MHz

Modulation Type: GFSK Number of Channels: 71

Channel Spacing: 1MHz (declared by the client)

Sample Type: Portable production

Antenna Type: Integral
Antenna Gain: 0dBi

Power supply: Tx: DC 6V by 1.5V x 4"AA" batteries



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| Operation Fr | Operation Frequency each of channel | | | | | | |
|--------------|-------------------------------------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2405MHz | 19 | 2423MHz | 37 | 2441MHz | 55 | 2459MHz |
| 2 | 2406MHz | 20 | 2424MHz | 38 | 2442MHz | 56 | 2460MHz |
| 3 | 2407MHz | 21 | 2425MHz | 39 | 2443MHz | 57 | 2461MHz |
| 4 | 2408MHz | 22 | 2426MHz | 40 | 2444MHz | 58 | 2462MHz |
| 5 | 2409MHz | 23 | 2427MHz | 41 | 2445MHz | 59 | 2463MHz |
| 6 | 2410MHz | 24 | 2428MHz | 42 | 2446MHz | 60 | 2464MHz |
| 7 | 2411MHz | 25 | 2429MHz | 43 | 2447MHz | 61 | 2465MHz |
| 8 | 2412MHz | 26 | 2430MHz | 44 | 2448MHz | 62 | 2466MHz |
| 9 | 2413MHz | 27 | 2431MHz | 45 | 2449MHz | 63 | 2467MHz |
| 10 | 2414MHz | 28 | 2432MHz | 46 | 2450MHz | 64 | 2468MHz |
| 11 | 2415MHz | 29 | 2433MHz | 47 | 2451MHz | 65 | 2469MHz |
| 12 | 2416MHz | 30 | 2434MHz | 48 | 2452MHz | 66 | 2470MHz |
| 13 | 2417MHz | 31 | 2435MHz | 49 | 2453MHz | 67 | 2471MHz |
| 14 | 2418MHz | 32 | 2436MHz | 50 | 2454MHz | 68 | 2472MHz |
| 15 | 2419MHz | 33 | 2437MHz | 51 | 2455MHz | 69 | 2473MHz |
| 16 | 2420MHz | 34 | 2438MHz | 52 | 2456MHz | 70 | 2474MHz |
| 17 | 2421MHz | 35 | 2439MHz | 53 | 2457MHz | 71 | 2475MHz |
| 18 | 2422MHz | 36 | 2440MHz | 54 | 2458MHz | | |

Using test software was control EUT work in continuous transmitter and receiver mode.and select test channel as below:

| Channel | Frequency |
|---------------------------|-----------|
| The Lowest channel(CH1) | 2405MHz |
| The Middle channel(CH36) | 2440MHz |
| The Highest channel(CH71) | 2475MHz |



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4.2 Description of Support Units

None

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 | RF conducted power | 0.75dB |
| 5 | RF power density | 2.84dB |
| 6 | Conducted Spurious emissions | 0.75dB |
| 7 | DE Dadiated server | 4.5dB (below 1GHz) |
| 7 | RF Radiated power | 4.8dB (above 1GHz) |
| | Dadiated Country and all a tast | 4.5dB (30MHz-1GHz) |
| 8 | Radiated Spurious emission test | 4.8dB (1GHz-18GHz) |
| 9 | Temperature test | 1 ℃ |
| 10 | Humidity test | 3% |
| 11 | Supply voltages | 1.5% |
| 12 | 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:

· CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

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 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

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 | | |
| DC Power Supply | ZhaoXin | RXN-305D | SEM011-02 | 2016-10-09 | 2017-10-09 | | |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2016-10-09 | 2017-10-09 | | |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2016-10-09 | 2017-10-09 | | |

| RE in Chamber | RE in Chamber | | | | | | | |
|--------------------------------------|-------------------------|-----------|---------------|---------------------------|----------------------------|--|--|--|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) | | | |
| 3m Semi- Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2017-05-10 | 2018-05-10 | | | |
| EMI Test Receiver | Agilent Technologies | N9038A | SEM004-05 | 2016-10-09 | 2017-10-09 | | | |
| BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEM003-01 | 2014-11-01 | 2017-11-01 | | | |
| Double-ridged horn (1-18GHz) | ETS-LINDGREN | 3117 | SEM003-11 | 2015-10-17 | 2018-10-17 | | | |
| Horn Antenna (18-26GHz) | ETS-LINDGREN | 3160 | SEM003-12 | 2014-11-24 | 2017-11-24 | | | |
| Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEM005-01 | 2017-04-14 | 2018-04-14 | | | |
| Band filter | Amindeon | Asi 3314 | SEM023-01 | N/A | N/A | | | |
| DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2016-10-09 | 2017-10-09 | | | |
| Loop Antenna | Beijing Daze | ZN30401 | SEM003-09 | 2015-05-13 | 2018-05-13 | | | |



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| RE in Cham | RE in Chamber | | | | | | | |
|--------------------------------------|-----------------------------|-----------------------|---------------|---------------------------|--------------------------------|--|--|--|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy- mm-dd) | | | |
| 3m Semi- Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2017-05-10 | 2018-05-10 | | | |
| EXA Spectrum Analyzer | Agilent Technologies Inc | N9010A | SEM004-09 | 2016-07-19 | 2017-07-19 | | | |
| BiConiLog Antenna (26-3000MHz) | ETS-Lindgren | 3142C | SEM003-02 | 2014-11-15 | 2017-11-15 | | | |
| Amplifier (0.1-1300MHz) | HP | 8447D | SEM005-02 | 2016-10-09 | 2017-10-09 | | | |
| Horn Antenna (1-18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2015-06-14 | 2018-06-14 | | | |
| Horn Antenna (18-26GHz) | ETS-Lindgren | 3160 | SEM003-12 | 2014-11-24 | 2017-11-24 | | | |
| Horn Antenna(26GHz- 40GHz) | A.H.Systems, inc. | SAS-573 | SEM003-13 | 2015-02-12 | 2018-02-12 | | | |
| Low Noise Amplifier | Black Diamond Series | BDLNA-0118- 352810 | SEM005-05 | 2016-10-09 | 2017-10-09 | | | |
| Band filter | Amindeon | Asi 3314 | SEM023-01 | N/A | N/A | | | |

| 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 | 2016-10-12 | 2017-10-12 | | |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2016-10-12 | 2017-10-12 | | |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2016-10-12 | 2017-10-12 | | |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2017-04-18 | 2018-04-18 | | |



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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

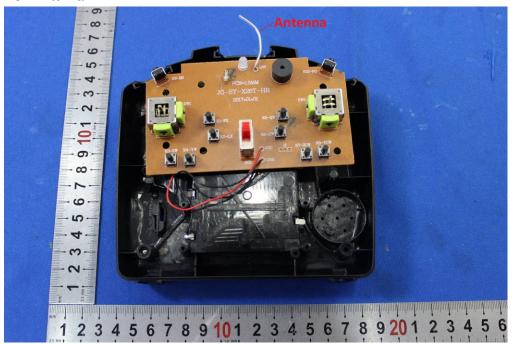
6.1.2 Conclusion

Standard Requirment:

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.

EUT Antenna:



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



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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: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

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

7.1.2 Measurement Procedure and Data

| Test Channel | 20dB bandwidth (MHz) | Results |
|--------------|----------------------|---------|
| Lowest | 5.9936 | Pass |
| Middle | 5.4808 | Pass |
| Highest | 4.8798 | Pass |

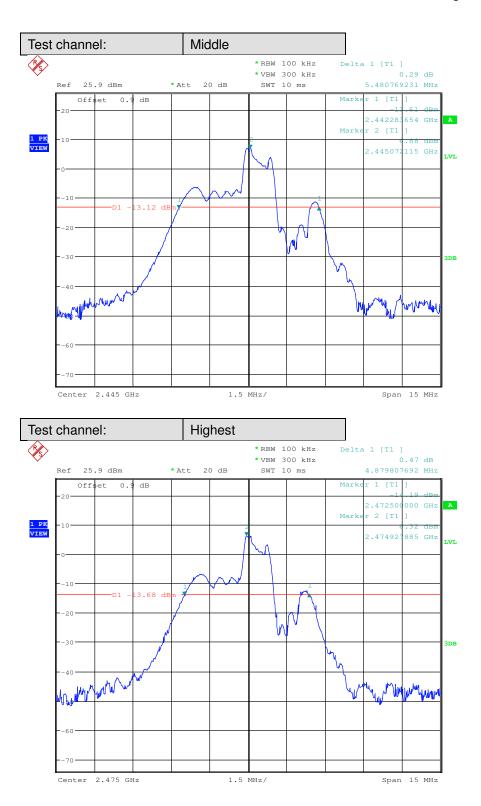
Test plot as follows:





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

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

Measurement Distance: 3m

Limit:

| Frequency | Limit (dBuV/m @3m) | Remark |
|---------------------|--------------------|---------------|
| 04001411 0400 51411 | 94.0 | Average Value |
| 2400MHz-2483.5MHz | 114.0 | Peak Value |

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

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

7.2.2 Measurement Procedure and Data

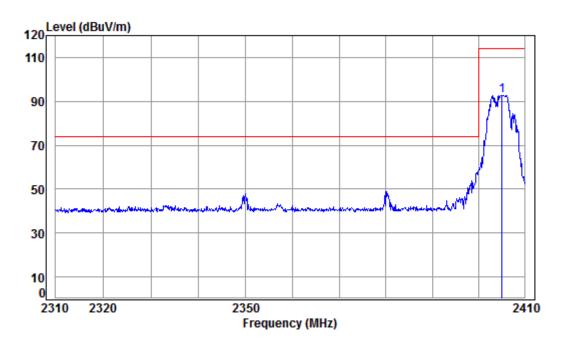
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters 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.



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Mode:a; Polarization:Horizontal; Modulation Type:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No: : 05229CR

Mode: : 2405 Filed 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

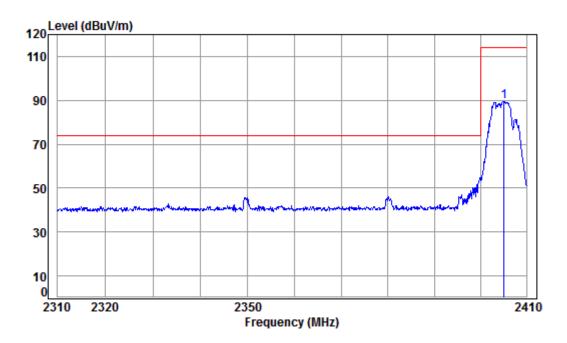
1 pp 2405.103 5.35 29.12 37.96 96.29 92.80 114.00 -21.20 Peak



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Mode:a; Polarization:Vertical; Modulation Type:GFSK; ; Channel:Low



Condition: 3m VERTICAL Job No: : 05229CR

Mode: : 2405 Filed Strength

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

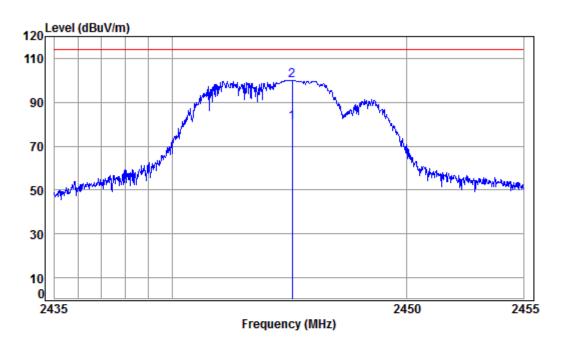
5.35 29.12 37.96 92.85 89.36 114.00 -24.64 Peak 1 pp 2405.103



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Mode:a; Polarization:Horizontal; Modulation Type:GFSK; ; Channel:middle



Condition: 3m HORIZONTAL

Job No: : 05229CR

Mode: : 2445 Filed 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

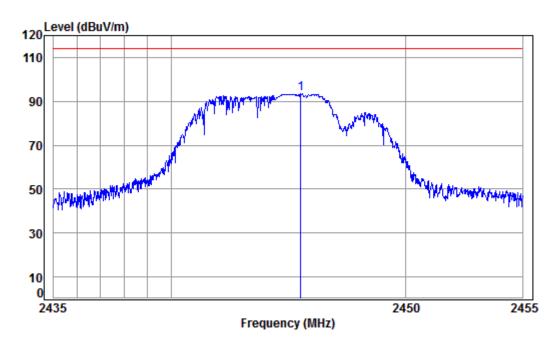
1 pp 2445.120 5.38 29.24 37.96 84.00 80.66 94.00 -13.34 Average 2 pk 2445.120 5.38 29.24 37.96 103.15 99.81 114.00 -14.19 Peak



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Mode:a; Polarization: Vertical; Modulation Type: GFSK; ; Channel: middle



Condition: 3m VERTICAL Job No: : 05229CR

Mode: : 2445 Filed Strength

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

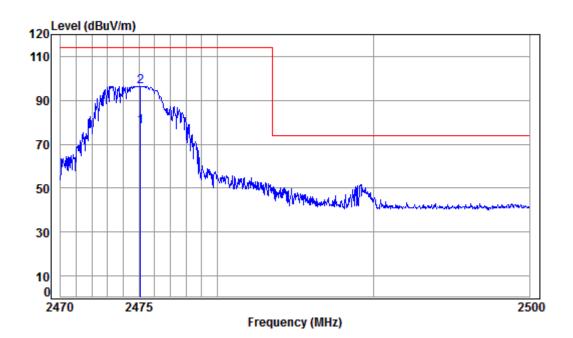
1 pp 2445.520 5.38 29.24 37.96 96.69 93.35 114.00 -20.65 Peak



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Mode:a; Polarization:Horizontal; Modulation Type:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No: : 05229CR

Mode: : 2475 Filed Strength

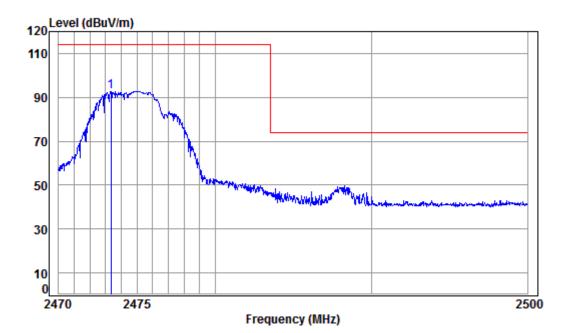
| Freq | | | Preamp Factor | | | | | | |
|--------------------------|----|------|------------------|------|--------|--------|----|---|---|
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | | _ |
| 2475.104 2475.104 | | | | | | | | _ | |



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Mode:a; Polarization:Vertical; Modulation Type:GFSK; ; Channel:High



Condition: 3m VERTICAL Job No: : 05229CR

Mode: : 2475 Filed 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 dBuV/m dB

1 pp 2473.342 5.40 29.32 37.95 95.87 92.64 114.00 -21.36 Peak



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7.3 Restricted Band Around Fundamental Frequency

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

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

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: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar

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

7.3.2 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

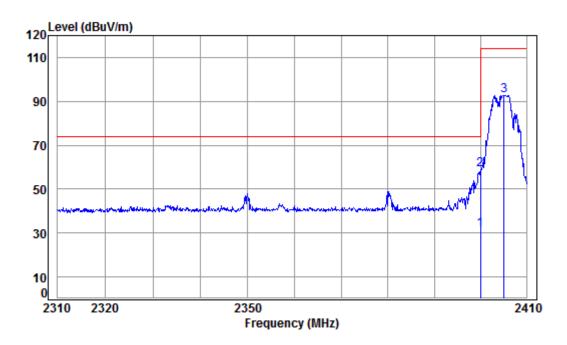
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, 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.



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Mode:a; Polarization:Horizontal; Modulation Type:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No: : 05229CR

Mode: : 2405 Band edge

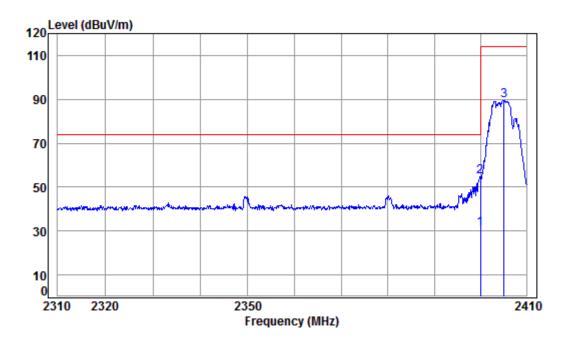
| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|----|----------|-------|--------|--------|-------|--------|--------|--------|---------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | av | 2400.000 | 5.35 | 29.11 | 37.96 | 34.95 | 31.45 | 54.00 | -22.55 | Average |
| 2 | pp | 2400.000 | 5.35 | 29.11 | 37.96 | 62.49 | 58.99 | 74.00 | -15.01 | Peak |
| 3 | | 2405.103 | 5.35 | 29.12 | 37.96 | 96.29 | 92.80 | 114.00 | -21.20 | Peak |



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Mode:a; Polarization:Vertical; Modulation Type:GFSK; ; Channel:Low



Condition: 3m VERTICAL Job No: : 05229CR

Mode: : 2405 Band edge

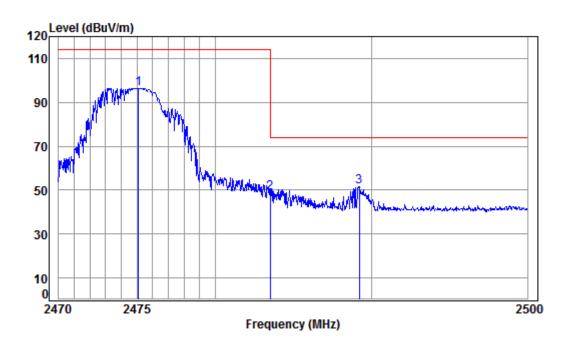
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB/m dΒ dB dB 1 av 2400.012 5.35 29.11 37.96 34.62 31.12 54.00 -22.88 Average 5.35 29.11 37.96 58.21 54.71 74.00 -19.29 Peak 2 pp 2400.012 5.35 29.12 37.96 92.85 89.36 114.00 -24.64 Peak 2405.103



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Mode:a; Polarization:Horizontal; Modulation Type:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No: : 05229CR

Mode: : 2475 Band edge

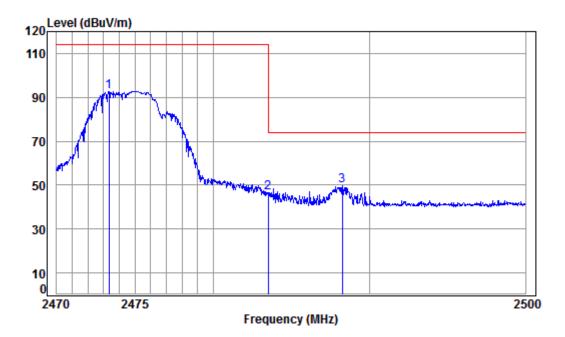
| | Enoa | | | Preamp Factor | | | | | Romank |
|------|----------|------|--------|------------------|-------|--------|--------|--------|----------|
| | rreq | LUSS | ractor | ractor | rever | rever | LINE | LIMIT | Kelliark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 pp | 2475.104 | 5.40 | 29.33 | 37.95 | 99.61 | 96.39 | 114.00 | -17.61 | Peak |
| 2 | 2483.500 | 5.41 | 29.35 | 37.95 | 52.15 | 48.96 | 74.00 | -25.04 | Peak |
| 3 | 2489.188 | 5.41 | 29.37 | 37.95 | 54.70 | 51.53 | 74.00 | -22.47 | Peak |



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Mode:a; Polarization: Vertical; Modulation Type: GFSK; ; Channel: High



Condition: 3m VERTICAL Job No: : 05229CR

Mode: : 2475 Band edge

2488.227

2

3

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB/m dΒ dB dB 1 pp 2473.342 5.40 29.32 37.95 95.87 92.64 114.00 -21.36 Peak 2483.500 5.41 29.35 37.95 49.74 46.55 74.00 -27.45 Peak 5.41 29.37 37.95 52.80 49.63 74.00 -24.37 Peak



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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 |

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

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

7.4.2 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



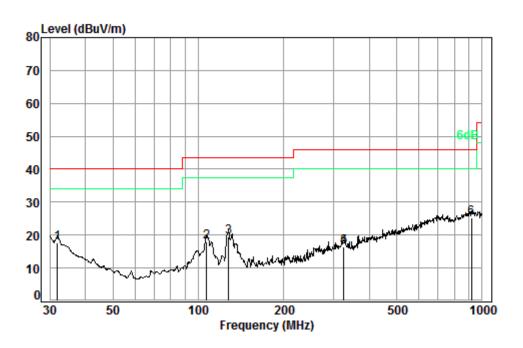
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30MHz~1GHz

Detector:QP

Mode:a; Horizontal



Condition: 3m HORIZONTAL

Job No. : 05229CR

Test mode: a

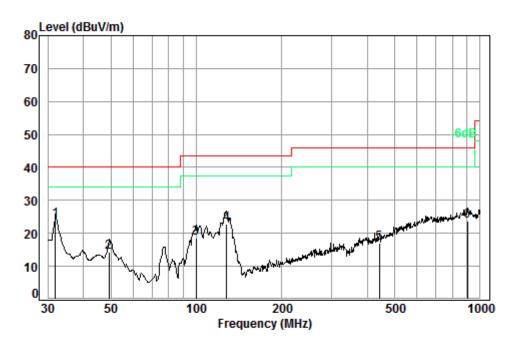
| | | Cable | Ant | Preamp | Read | | Limit | 0ver |
|------|--------|-------|--------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | MHz | dB | dB/m | ——dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 31.95 | 0.60 | 17.61 | 27.35 | 26.80 | 17.66 | 40.00 | -22.34 |
| 2 | 107.13 | 1.22 | 8.74 | 27.15 | 35.07 | 17.88 | 43.50 | -25.62 |
| 3 | 128.11 | 1.27 | 7.74 | 27.02 | 37.55 | 19.54 | 43.50 | -23.96 |
| 4 | 325.60 | 1.98 | 14.78 | 26.60 | 26.33 | 16.49 | 46.00 | -29.51 |
| 5 | 325.60 | 1.98 | 14.78 | 26.60 | 26.33 | 16.49 | 46.00 | -29.51 |
| 6 pp | 916.07 | 3.62 | 23.26 | 26.71 | 25.15 | 25.32 | 46.00 | -20.68 |



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Mode:a; Vertical



Condition: 3m VERTICAL Job No. : 05229CR

Test mode: a

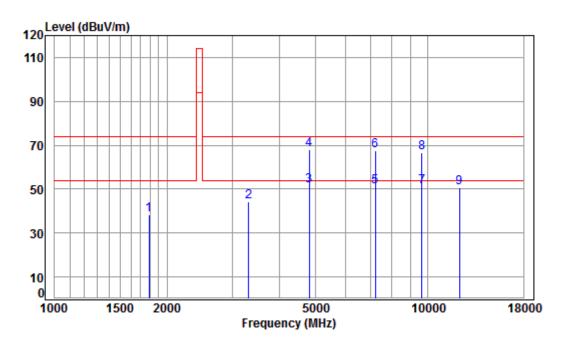
| | | Cable | Ant | Preamp | Read | | Limit | 0ver |
|------|--------|-------|--------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| _ | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| _ | 24.05 | 0.60 | 47.64 | 07.25 | 22.04 | | 40.00 | 46.40 |
| 1 pp | 31.95 | 0.60 | 17.61 | 27.35 | 33.04 | 23.90 | 40.00 | -16.10 |
| 2 | 49.36 | 0.79 | 8.98 | 27.29 | 31.73 | 14.21 | 40.00 | -25.79 |
| 3 | 99.88 | 1.20 | 9.10 | 27.20 | 35.32 | 18.42 | 43.50 | -25.08 |
| 4 | 128.11 | 1.27 | 7.74 | 27.02 | 40.89 | 22.88 | 43.50 | -20.62 |
| 5 | 441.74 | 2.38 | 16.73 | 27.40 | 25.37 | 17.08 | 46.00 | -28.92 |
| 6 | 903.31 | 3.60 | 23.21 | 26.75 | 23.57 | 23.63 | 46.00 | -22.37 |



Report No.: SZEM170500522902

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Mode:a; Polarization:Horizontal; Modulation Type:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No: : 05229CR

Mode: : 2405 TX RSE

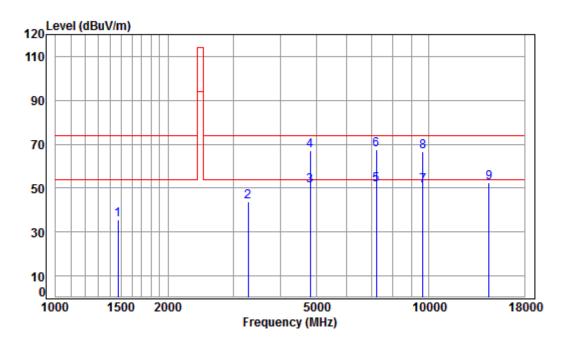
| | Freq | Cable Loss | | Preamp Factor | | | Limit Line | Over Limit | Remark |
|------|-----------|---------------|-------|------------------|-------|--------|---------------|---------------|---------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1792.937 | 4.80 | 27.04 | 38.02 | 44.31 | 38.13 | 74.00 | -35.87 | Peak |
| 2 | 3308.894 | 6.17 | 31.87 | 37.93 | 44.09 | 44.20 | 74.00 | -29.80 | Peak |
| 3 pp | 4810.000 | 7.73 | 34.16 | 38.40 | 48.22 | 51.71 | 54.00 | -2.29 | Average |
| 4 pk | 4810.000 | 7.73 | 34.16 | 38.40 | 64.48 | 67.97 | 74.00 | -6.03 | Peak |
| 5 | 7215.000 | 9.66 | 36.41 | 37.10 | 42.32 | 51.29 | 54.00 | -2.71 | Average |
| 6 | 7215.000 | 9.66 | 36.41 | 37.10 | 58.41 | 67.38 | 74.00 | -6.62 | Peak |
| 7 | 9620.000 | 11.06 | 37.52 | 35.09 | 37.63 | 51.12 | 54.00 | -2.88 | Average |
| 8 | 9620.000 | 11.06 | 37.52 | 35.09 | 53.15 | 66.64 | 74.00 | -7.36 | Peak |
| 9 | 12149.420 | 12.62 | 38.69 | 35.96 | 35.15 | 50.50 | 74.00 | -23.50 | Peak |



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Mode:a; Polarization: Vertical; Modulation Type: GFSK; ; Channel: Low



Condition: 3m VERTICAL Job No: : 05229CR

Mode: : 2405 TX RSE

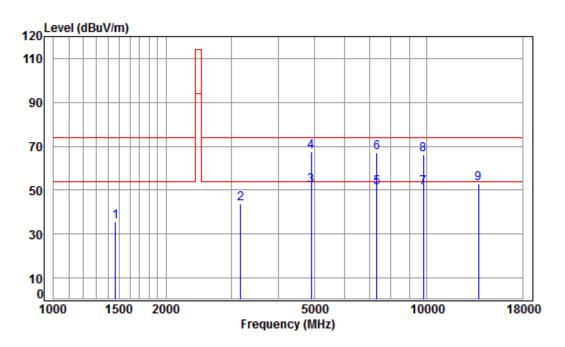
| | Freq | Cable Loss | | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|-------------|---------------|-------|------------------|---------------|--------|---------------|---------------|---------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1468.761 | 4.43 | 25.68 | 38.05 | 43.61 | 35.67 | 74.00 | -38.33 | Peak |
| 2 | 3280.326 | 6.14 | 31.82 | 37.93 | 43.86 | 43.89 | 74.00 | -30.11 | Peak |
| 3 | 4810.000 | 7.73 | 34.16 | 38.40 | 47.52 | 51.01 | 54.00 | -2.99 | Average |
| 4 | 4810.000 | 7.73 | 34.16 | 38.40 | 63.48 | 66.97 | 74.00 | -7.03 | Peak |
| 5 | pp 7215.000 | 9.66 | 36.41 | 37.10 | 42.60 | 51.57 | 54.00 | -2.43 | Average |
| 6 | pk 7215.000 | 9.66 | 36.41 | 37.10 | 58.65 | 67.62 | 74.00 | -6.38 | Peak |
| 7 | 9620.000 | 11.06 | 37.52 | 35.09 | 37.63 | 51.12 | 54.00 | -2.88 | Average |
| 8 | 9620.000 | 11.06 | 37.52 | 35.09 | 53.33 | 66.82 | 74.00 | -7.18 | Peak |
| 9 | 14450.130 | 14.71 | 40.28 | 38.95 | 36.27 | 52.31 | 74.00 | -21.69 | Peak |



Report No.: SZEM170500522902

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Mode:a; Polarization:Horizontal; Modulation Type:GFSK; ; Channel:middle



Condition: 3m HORIZONTAL

Job No: : 05229CR

Mode: : 2445 TX RSE

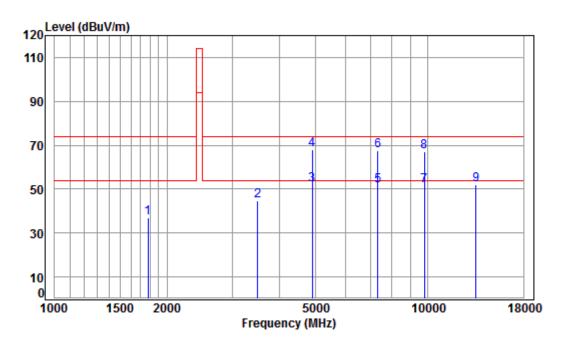
| | Freq | Cable Loss | | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|------|-----------|---------------|-------|------------------|---------------|--------|---------------|---------------|---------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1464.522 | 4.43 | 25.66 | 38.05 | 43.72 | 35.76 | 74.00 | -38.24 | Peak |
| 2 | 3168.500 | 6.06 | 31.62 | 37.92 | 44.15 | 43.91 | 74.00 | -30.09 | Peak |
| 3 рр | 4890.000 | 7.85 | 34.31 | 38.44 | 48.22 | 51.94 | 54.00 | -2.06 | Average |
| 4 pk | 4890.000 | 7.85 | 34.31 | 38.44 | 63.81 | 67.53 | 74.00 | -6.47 | Peak |
| 5 | 7335.000 | 9.73 | 36.37 | 37.01 | 42.04 | 51.13 | 54.00 | -2.87 | Average |
| 6 | 7335.000 | 9.73 | 36.37 | 37.01 | 57.90 | 66.99 | 74.00 | -7.01 | Peak |
| 7 | 9780.000 | 11.23 | 37.56 | 35.01 | 37.32 | 51.10 | 54.00 | -2.90 | Average |
| 8 | 9780.000 | 11.23 | 37.56 | 35.01 | 52.37 | 66.15 | 74.00 | -7.85 | Peak |
| 9 | 13717.560 | 14.32 | 38.86 | 38.72 | 38.29 | 52.75 | 74.00 | -21.25 | Peak |



Report No.: SZEM170500522902

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Mode:a; Polarization: Vertical; Modulation Type: GFSK; ; Channel: middle



Condition: 3m VERTICAL Job No: : 05229CR

Job No: : 05229CR Mode: : 2445 TX RSE

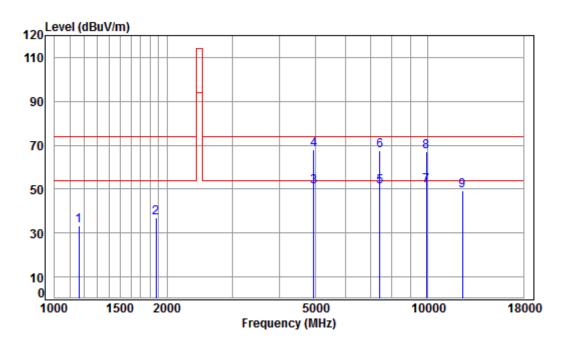
| | Freq | Cable Loss | | Preamp Factor | Read Level | | Limit Line | Over Limit | Remark |
|------|-----------|---------------|-------|------------------|---------------|--------|---------------|---------------|---------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | ——dB | |
| 1 | 1777.458 | 4.79 | 26.98 | 38.02 | 43.07 | 36.82 | 74.00 | -37.18 | Peak |
| 2 | 3495.691 | 6.30 | 32.19 | 37.95 | 44.22 | 44.76 | 74.00 | -29.24 | Peak |
| 3 рр | 4890.000 | 7.85 | 34.31 | 38.44 | 48.25 | 51.97 | 54.00 | -2.03 | Average |
| 4 pk | 4890.000 | 7.85 | 34.31 | 38.44 | 64.29 | 68.01 | 74.00 | -5.99 | Peak |
| 5 | 7335.000 | 9.73 | 36.37 | 37.01 | 42.33 | 51.42 | 54.00 | -2.58 | Average |
| 6 | 7335.000 | 9.73 | 36.37 | 37.01 | 58.43 | 67.52 | 74.00 | -6.48 | Peak |
| 7 | 9780.000 | 11.23 | 37.56 | 35.01 | 37.56 | 51.34 | 54.00 | -2.66 | Average |
| 8 | 9780.000 | 11.23 | 37.56 | 35.01 | 53.17 | 66.95 | 74.00 | -7.05 | Peak |
| 9 | 13442.810 | 14.03 | 38.62 | 38.44 | 37.83 | 52.04 | 74.00 | -21.96 | Peak |



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Mode:a; Polarization:Horizontal; Modulation Type:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No: : 05229CR

Mode: : 2475 TX RSE

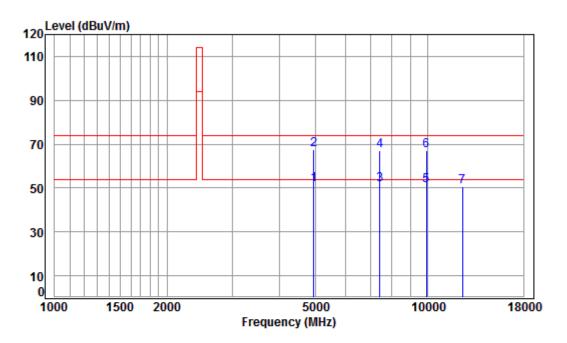
| | | Freq | Cable Loss | | Preamp Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|----|-----------|---------------|-------|------------------|---------------|--------|---------------|---------------|---------|
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | | 1162.182 | 4.02 | 24.29 | 38.08 | 43.20 | 33.43 | 74.00 | -40.57 | Peak |
| 2 | | 1872.381 | 4.89 | 27.34 | 38.01 | 42.96 | 37.18 | 74.00 | -36.82 | Peak |
| 3 | | 4950.000 | 7.92 | 34.41 | 38.47 | 47.46 | 51.32 | 54.00 | -2.68 | Average |
| 4 | pk | 4950.000 | 7.92 | 34.41 | 38.47 | 63.96 | 67.82 | 74.00 | -6.18 | Peak |
| 5 | | 7425.000 | 9.81 | 36.33 | 36.91 | 42.01 | 51.24 | 54.00 | -2.76 | Average |
| 6 | | 7425.000 | 9.81 | 36.33 | 36.91 | 58.18 | 67.41 | 74.00 | -6.59 | Peak |
| 7 | pp | 9900.000 | 11.34 | 37.58 | 34.95 | 37.63 | 51.60 | 54.00 | -2.40 | Average |
| 8 | | 9900.000 | 11.34 | 37.58 | 34.95 | 53.02 | 66.99 | 74.00 | -7.01 | Peak |
| 9 | | 12361.950 | 12.94 | 38.82 | 36.47 | 34.00 | 49.29 | 74.00 | -24.71 | Peak |



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Mode:a; Polarization:Vertical; Modulation Type:GFSK; ; Channel:High



Condition: 3m VERTICAL

Job No: : 05229CR

Mode: : 2475 TX RSE

| oue | • | . 2473 TX NOL | | | | | | | | | |
|-----|----|---------------|-------|--------|--------|-------|--------|--------|--------|---------|--|
| | | | 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 | | 4950.000 | 7.92 | 34.41 | 38.47 | 47.53 | 51.39 | 54.00 | -2.61 | Average | |
| 2 | pk | 4950.000 | 7.92 | 34.41 | 38.47 | 63.49 | 67.35 | 74.00 | -6.65 | Peak | |
| 3 | pp | 7425.000 | 9.81 | 36.33 | 36.91 | 42.31 | 51.54 | 54.00 | -2.46 | Average | |
| 4 | | 7425.000 | 9.81 | 36.33 | 36.91 | 58.05 | 67.28 | 74.00 | -6.72 | Peak | |
| 5 | | 9900.000 | 11.34 | 37.58 | 34.95 | 37.36 | 51.33 | 54.00 | -2.67 | Average | |
| 6 | | 9900.000 | 11.34 | 37.58 | 34.95 | 53.06 | 67.03 | 74.00 | -6.97 | Peak | |
| 7 | 1 | 12361.950 | 12.94 | 38.82 | 36.47 | 35.52 | 50.81 | 74.00 | -23.19 | 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) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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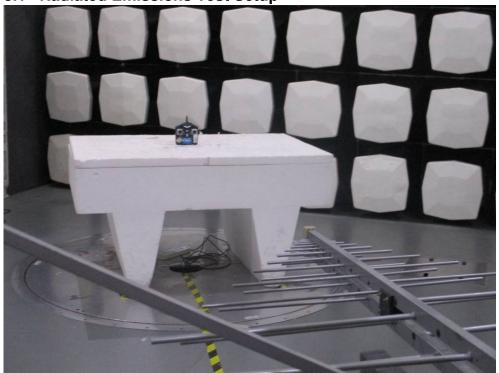


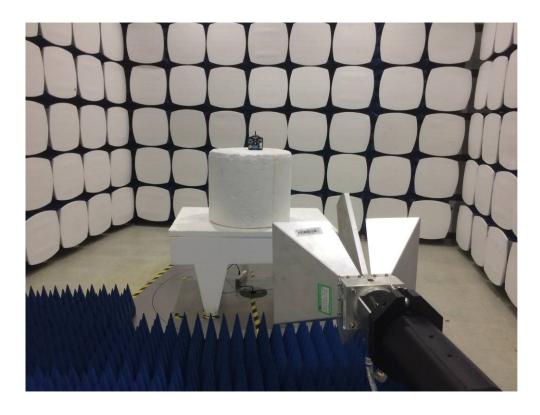
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8 Photographs

8.1 Radiated Emissions Test Setup





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8.2 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1705005229CR.