

Report No.: GZEM200601324202 Page: 1 of 111

TEST REPORT

| Application No.: GZEM2006013242CR | | | |
|-----------------------------------|---|--|--|
| Applicant: | Shenzhen Xinglong new plastic products limited company | | |
| Address of Applicant: | 1-3 floor, No.10, quanwei, xikeng Community, henggang, longgang District, Shenzhen, China | | |
| Manufacturer: | The same as applicant | | |
| Address of Manufacturer: | The same as applicant | | |
| Factory: | The same as applicant | | |
| Address of Factory: | The same as applicant | | |
| Equipment Under Test (EL | ЈТ): | | |
| EUT Name: | Epic Bluetooth Party Speaker | | |
| Model No.: | CVS-13, LS-SPEAKER2002¤ | | |
| ¤ | Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical. | | |
| FCC ID: | 2AG5CCVS-13 | | |
| Trade Mark: | iHip, Liangzhisheng | | |
| Standard(s): | 47 CFR Part 15, Subpart C 15.247 | | |
| Date of Receipt: | 2020-06-24 | | |
| Date of Test: | 2020-06-29 to 2020-07-09 | | |
| Date of Issue: | 2020-07-23 | | |
| Test Result: | Pass* | | |

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

Kobe Jian EMC Laboratory Manager



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Report No.: GZEM200601324202 Page: 2 of 111

| | Revision Record | | | | | |
|--------------------------------------|-----------------|------------|--|----------|--|--|
| Version Chapter Date Modifier Remark | | | | | | |
| 01 | | 2020-07-23 | | Original | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Authorized for issue by: | | |
|--------------------------|------------------------------|--------------------------|
| Tested By | City Knang | 2020-06-29 to 2020-07-09 |
| | Lily_Kuang /Project Engineer | Date |
| Checked By | Ridey Liv | 2020-07-23 |
| | Ricky_Liu /Reviewer | Date |



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Report No.: GZEM200601324202 Page: 3 of 111

2 Test Summary

| Radio Spectrum Technical Requirement | | | | | |
|--|-------------------------------------|--------|--|--------|--|
| ltem | Standard | Method | Requirement | Result | |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.247 | N/A | 47 CFR Part 15, Subpart C 15.203 & 15.247(c) | Pass | |
| Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence | 47 CFR Part 15, Subpart C 15.247 | N/A | 47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h) | Pass | |

| Radio Spectrum Matter Part | | | | | |
|---|-------------------------------------|---|---|--------|--|
| Item | Standard | Method | Requirement | Result | |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | Pass | |
| Conducted Peak Output Power | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.5 | 47 CFR Part 15, Subpart C 15.247(b)(1) | Pass | |
| 20dB Bandwidth | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.7 | 47 CFR Part 15, Subpart C 15.247(a)(1) | Pass | |
| Carrier Frequencies Separation | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.2 | 47 CFR Part 15, Subpart C 15.247a(1) | Pass | |
| Hopping Channel Number | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.3 | 47 CFR Part 15, Subpart C 15.247a(1)(iii) | Pass | |
| Dwell Time | 47 CFR Part 15, Subpart C 15.247 | | | Pass | |
| Conducted Band Edges Measurement | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.6 | 47 CFR Part 15, Subpart C 15.247(d) | Pass | |
| Conducted Spurious Emissions | | | 47 CFR Part 15, Subpart C 15.247(d) | Pass | |
| Radiated Emissions which fall in the restricted bands | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.10.5 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass | |
| Radiated Spurious Emissions | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.4,6.5,6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass | |



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Report No.: GZEM200601324202 Page: 4 of 111

¤ Declaration of EUT Family Grouping:

Model No.: CVS-13, LS-SPEAKER2002

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference in the outer decoration., color, model name Therefore only one model CVS-13 was tested in this report.



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Report No.: GZEM200601324202 Page: 5 of 111

3 **Contents**

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| 1 | Cover Page | |
|---|--|---|
| 2 | Test Summary | 3 |
| 3 | Contents | 5 |
| 4 | General Information | 7 |
| | 4.1 Details of E.U.T | 7 |
| | 4.2 Description of Support Units | |
| | 4.3 Measurement Uncertainty | |
| | 4.4 Test Location | |
| | 4.5 Test Facility | |
| | 4.6 Deviation from Standards | |
| | 4.7 Abnormalities from Standard Conditions | |
| _ | | |
| 5 | Equipment List | 11 |
| 6 | Radio Spectrum Technical Requirement | 15 |
| | 6.1 Antenna Requirement | 15 |
| | 6.1.1 Test Requirement: | |
| | 6.1.2 Conclusion | |
| | 6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence | |
| | 6.2.1 Test Requirement: | |
| | 6.2.2 Conclusion | 16 |
| 7 | Radio Spectrum Matter Test Results | |
| ' | - | |
| | 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) | |
| | 7.1.1 E.U.T. Operation | 17 |
| | 7.1.2 Test Setup Diagram | 17 |
| | 7.1.3 Measurement Procedure and Data | |
| | 7.2 Conducted Peak Output Power | |
| | 7.2.1 E.U.T. Operation | |
| | 7.2.2 Test Setup Diagram | |
| | 7.2.3 Measurement Procedure and Data | |
| | 7.3 20dB Bandwidth | |
| | 7.3.1 E.U.T. Operation | |
| | 7.3.2 Test Setup Diagram | 22 |
| | 7.3.3 Measurement Procedure and Data | |
| | 7.4 Carrier Frequencies Separation | |
| | 7.4.1 E.U.T. Operation | |
| | 7.4.2 Test Setup Diagram | |
| | 7.4.3 Measurement Procedure and Data | |
| | 7.5 Hopping Channel Number | |
| | 7.5.1 E.U.T. Operation | |
| | 7.5.2 Test Setup Diagram | |
| | 7.5.3 Measurement Procedure and Data | |
| | 7.6 Dwell Time | |
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Report No.: GZEM200601324202 Page: 6 of 111

| 7.6.1 E.U.T. Operation | 25 |
|---|----|
| 7.6.2 Test Setup Diagram | 25 |
| 7.6.3 Measurement Procedure and Data | 25 |
| 7.7 Conducted Band Edges Measurement | |
| 7.7.1 E.U.T. Operation. | |
| 7.7.2 Test Setup Diagram | |
| 7.7.3 Measurement Procedure and Data | 27 |
| 7.8 Conducted Spurious Emissions | |
| 7.8.1 E.U.T. Operation | |
| 7.8.2 Test Setup Diagram | |
| 7.8.3 Measurement Procedure and Data | |
| 7.9 Radiated Emissions which fall in the restricted bands | 29 |
| 7.9.1 E.U.T. Operation | |
| 7.9.2 Test Setup Diagram | 30 |
| 7.9.3 Measurement Procedure and Data | |
| 7.10 Radiated Spurious Emissions | 35 |
| 7.10.1 E.U.T. Operation | 36 |
| 7.10.2 Test Setup Diagram | |
| 7.10.3 Measurement Procedure and Data | 37 |
| 8 Appendix | |
| 8.1 Appendix 15.247 | |



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Report No.: GZEM200601324202 Page: 7 of 111

4 General Information

4.1 Details of E.U.T.

| Power Supply: | Powered by built-in battery as below: |
|--------------------------------|--|
| | Model: TWZ 18650 |
| | Rated: DC 3.7V, 1200mAh, 4.44Wh |
| | DC 5V for charging mode |
| Test Voltage: | AC 120V, 60 Hz powered by AC/DC adapter refer to section 4.2 |
| Cable: | Common cable with charging and Aux: 50cm Unshielded |
| Antenna Gain: | 0 dBi |
| Antenna Type: | Integrated antenna |
| Channel Spacing: | 1MHz |
| Modulation Type: | GFSK, π/4DQPSK, 8DPSK |
| Number of Channels: | 79 |
| Operation Frequency: | 2402MHz to 2480MHz |
| Spectrum Spread Technology: | Frequency Hopping Spread Spectrum(FHSS) |
| BT Version | V5.0 for Classic Only |
| Hardware Version: | K797T-AB-VR-V1.1 |
| Firmware Version: | V1.00 |
| S/N: | SP-20200500650 |
| Test Software Version: | BT_Tool V1.0.5 |
| Power setting level | 2 dBm |
| Departmention of Course | |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|--------------------|--------------|-----------|-------------------|
| Notebook | IBM | T30 | S/N78-3VMLX 06/01 |
| Adapter 1(EMCA021) | Minji | MJ4105 | N/A |



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Report No.: GZEM200601324202 Page: 8 of 111

| No. | ltem | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | ±5.5 x 10 ⁻⁸ |
| 2 | Duty cycle | ±0.57% |
| 3 | Occupied Bandwidth | ±3% |
| 4 | RF Conducted power | ±0.68dB |
| 5 | RF Power Density | ±1.50dB |
| 6 | Conducted Spurious Emissions | ±1.04dB |
| 7 | RF Radiated Power | ±4.5dB (below 1GHz) |
| 1 | RF Radiated Fower | ±4.8dB (above 1GHz) |
| 8 | Radiated Spurious Emission Test | ±4.5dB (30MHz-1GHz) |
| 0 | Radiated Spundus Emission Test | ±4.8dB (1GHz-18GHz) |
| 9 | Temperature | ±0.4°C |
| 10 | Humidity | ±1.3% |
| 11 | Supply Voltages | ±1.5% |
| 12 | Time | ±3% |

4.3 Measurement Uncertainty

4.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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Report No.: GZEM200601324202 Page: 9 of 111

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

• ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

• CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., 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 282399, May 31, 2002.

• FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

• Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

• VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)

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.: R-12460, C-12584, G-10449 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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Report No.: GZEM200601324202 Page: 10 of 111

- 4.6 Deviation from Standards None
- 4.7 Abnormalities from Standard Conditions None



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Report No.: GZEM200601324202 Page: 11 of 111

5 Equipment List

| Conducted Emissions at AC Power Line (150kHz-30MHz) | | | | | | |
|---|-------------------|----------------|-----------|------------|------------|--|
| Equipment Manufacturer Model No Inventory No Cal Date Cal Due | | | | | | |
| Shielding Room | ChangZhou ZhongYu | 8m x 3m x 3.8m | EMC0306 | N/A | N/A | |
| Two-Line V-Network | Rohde & Schwarz | ENV216 | EMC0118 | 2020-01-10 | 2021-01-09 | |
| LISN | Rohde & Schwarz | ENV216 | EMC2135 | 2019-09-16 | 2020-09-15 | |
| EMI Test Receiver | Rohde & Schwarz | ESCS30 | EMC0506 | 2019-11-18 | 2020-11-17 | |
| Coaxial Cable | HangTianXing | 2m | EMC0107 | 2018-09-20 | 2020-09-19 | |
| Voltage Probe | SGS-EMC | N/A | EMC0106 | 2019-05-10 | 2021-05-09 | |
| Conical Metal Housing | SGS-EMC | N/A | EMC0167 | 2020-04-19 | 2022-04-18 | |
| Test Software E3c | Audix | Ver. 5.4.1221b | GZE100-62 | N/A | N/A | |

| Conducted Peak Output Power | | | | | | |
|--|---------------------|--------|-----------|------------|------------|--|
| Equipment Manufacturer Model No Inventory No Cal Date Cal Due Da | | | | | | |
| EXA Signal Analzer | AgilentTechnologies | N9010A | EMC2138 | 2019-11-18 | 2020-11-17 | |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 | |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A | |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2019-11-02 | 2021-11-01 | |
| MI CABLE | SGS-EMC | 0.8M | EMC2137 | 2019-11-02 | 2021-11-01 | |

| 20dB Bandwidth | | | | | |
|------------------------|---------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EXA Signal Analzer | AgilentTechnologies | N9010A | EMC2138 | 2019-11-18 | 2020-11-17 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2019-11-02 | 2021-11-01 |
| MI CABLE | SGS-EMC | 0.8M | EMC2137 | 2019-11-02 | 2021-11-01 |

| Carrier Frequencies Separation | | | | | | | |
|--------------------------------|---------------------|----------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| EXA Signal Analzer | AgilentTechnologies | N9010A | EMC2138 | 2019-11-18 | 2020-11-17 | | |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 | | |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A | | |
| MI CABLE | MI CABLE SGS-EMC | | EMC2136 | 2019-11-02 | 2021-11-01 | | |
| MI CABLE | MI CABLE SGS-EMC | | EMC2137 | 2019-11-02 | 2021-11-01 | | |



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Report No.: GZEM200601324202 Page: 12 of 111

| Hopping Channel Number | | | | | | | |
|------------------------|---------------------|--------|--------------|------------|--------------|--|--|
| Equipment | nent Manufacturer | | Inventory No | Cal Date | Cal Due Date | | |
| EXA Signal Analzer | AgilentTechnologies | N9010A | EMC2138 | 2019-11-18 | 2020-11-17 | | |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 | | |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A | | |
| MI CABLE | CABLE SGS-EMC | | EMC2136 | 2019-11-02 | 2021-11-01 | | |
| MI CABLE | | | EMC2137 | 2019-11-02 | 2021-11-01 | | |

| Dwell Time | | | | | | | |
|------------------------|---------------------|----------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| EXA Signal Analzer | AgilentTechnologies | N9010A | EMC2138 | 2019-11-18 | 2020-11-17 | | |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 | | |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A | | |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2019-11-02 | 2021-11-01 | | |
| MI CABLE | SGS-EMC | 0.8M | EMC2137 | 2019-11-02 | 2021-11-01 | | |

| Conducted Band Edges Measurement | | | | | | | |
|----------------------------------|---------------------|----------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| EXA Signal Analzer | AgilentTechnologies | N9010A | EMC2138 | 2019-11-18 | 2020-11-17 | | |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 | | |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A | | |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2019-11-02 | 2021-11-01 | | |
| MI CABLE | MI CABLE SGS-EMC | | EMC2137 | 2019-11-02 | 2021-11-01 | | |

| Conducted Spurious Emissions | | | | | | | |
|------------------------------|---------------------|--------------------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| EXA Signal Analzer | AgilentTechnologies | N9010A | EMC2138 | 2019-11-18 | 2020-11-17 | | |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 | | |
| Test Software JS1120-3 | HangTianXing | V2.6 GZE100-69 N/A | | N/A | N/A | | |
| MI CABLE | LE SGS-EMC | | EMC2136 | 2019-11-02 | 2021-11-01 | | |
| MI CABLE | AI CABLE SGS-EMC | | EMC2137 | 2019-11-02 | 2021-11-01 | | |



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Report No.: GZEM200601324202 Page: 13 of 111

| Radiated Emissions which fall in the restricted bands | | | | | | | |
|---|--------------------------------|---------------|--------------|------------|--------------|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | |
| EMI Test Receiver | Rohde & Schwarz | ESIB26 | EMC0522 | 2020-01-10 | 2021-01-09 | | |
| EMI Test Receiver | Rohde & Schwarz | ESCI | EMC0056 | 2020-01-10 | 2021-01-09 | | |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2019-06-28 | 2021-06-27 | | |
| Trilog Broadband Antenna 25MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | EMC2174 | 2018-09-06 | 2021-09-05 | | |
| Bi-log Type Antenna | Schaffner Chase | CBL6143 | EMC0519 | 2020-06-08 | 2023-06-07 | | |
| Horn Antenna | SCHWARZBECKME SS-ELEKTRONIK | BBHA 9120D | EMC2016 | 2019-09-25 | 2022-09-24 | | |
| Horn Antenna 1GHz-18GHz | Rohde & Schwarz | HF906 | EMC0518 | 2018-09-02 | 2021-09-01 | | |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2020-01-10 | 2021-01-09 | | |
| Amplifier | HP | 8447F | EMC2065 | 2020-05-26 | 2021-05-25 | | |
| Pre-Amplifier MH648A | ANRITSU CORP | MH648A | EMC2086 | 2019-11-18 | 2020-11-17 | | |
| Active Loop Antenna | EMCO | 6502 | EMC0523 | 2018-03-05 | 2021-03-04 | | |
| High Pass Filter(915MHz) | FSY MICROWAVE | HM1465-9SS | EMC2079 | 2020-01-10 | 2021-01-09 | | |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2020-01-10 | 2021-01-09 | | |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2019-10-20 | 2022-10-19 | | |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2017-12-19 | 2020-12-18 | | |
| MXE EMI Receiver | Keysight | N9038A | EMC2139 | 2019-11-18 | 2020-11-17 | | |
| EXA Signal Analyzer | Keysight | N9010A | EMC2138 | 2019-11-18 | 2020-11-17 | | |
| Trilog Broadband Antenna 30MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 | | |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A | | |



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Report No.: GZEM200601324202 Page: 14 of 111

| Radiated Spurious Emissions | | | | | | | | |
|--|--------------------------------|---------------|--------------|------------|--------------|--|--|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | | | |
| EMI Test Receiver | Rohde & Schwarz | ESIB26 | EMC0522 | 2020-01-10 | 2021-01-09 | | | |
| EMI Test Receiver | Rohde & Schwarz | ESCI | EMC0056 | 2020-01-10 | 2021-01-09 | | | |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2019-06-28 | 2021-06-27 | | | |
| Trilog Broadband Antenna 25MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | EMC2174 | 2018-09-06 | 2021-09-05 | | | |
| Bi-log Type Antenna | Schaffner Chase | CBL6143 | EMC0519 | 2020-06-08 | 2023-06-07 | | | |
| Horn Antenna | SCHWARZBECKME SS-ELEKTRONIK | BBHA 9120D | EMC2016 | 2019-09-25 | 2022-09-24 | | | |
| Horn Antenna 1GHz-18GHz | Rohde & Schwarz | HF906 | EMC0518 | 2018-09-02 | 2021-09-01 | | | |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2020-01-10 | 2021-01-09 | | | |
| Amplifier | HP | 8447F | EMC2065 | 2020-05-26 | 2021-05-25 | | | |
| Pre-Amplifier MH648A | ANRITSU CORP | MH648A | EMC2086 | 2019-11-18 | 2020-11-17 | | | |
| Active Loop Antenna | EMCO | 6502 | EMC0523 | 2018-03-05 | 2021-03-04 | | | |
| High Pass Filter(915MHz) | FSY MICROWAVE | HM1465-9SS | EMC2079 | 2020-01-10 | 2021-01-09 | | | |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2020-01-10 | 2021-01-09 | | | |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2019-10-20 | 2022-10-19 | | | |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2017-12-19 | 2020-12-18 | | | |
| MXE EMI Receiver | Keysight | N9038A | EMC2139 | 2019-11-18 | 2020-11-17 | | | |
| EXA Signal Analyzer | Keysight | N9010A | EMC2138 | 2019-11-18 | 2020-11-17 | | | |
| Trilog Broadband Antenna 30MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 | | | |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A | | | |

| General used equipment | | | | | |
|------------------------|--------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| DMM | Fluke | 73 | EMC0006 | 2020-07-09 | 2021-07-08 |
| DMM | Fluke | 73 | EMC0007 | 2020-07-09 | 2021-07-08 |



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Report No.: GZEM200601324202 Page: 15 of 111

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(c)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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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Report No.: GZEM200601324202 Page: 16 of 111

6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

> Number of shift register stages: 9

> Length of pseudo-random sequence: 29 -1 = 511 bits

> Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum bands



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Report No.: GZEM200601324202 Page: 17 of 111

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

| Test Requirement | 47 CFR Part 15, Subpart C 15.207 |
|------------------|----------------------------------|
| Test Method: | ANSI C63.10 (2013) Section 6.2 |
| Limit: | |

| | Conducted limit(dBµV) | | | | | |
|--|-----------------------|-----------|--|--|--|--|
| Frequency of emission(MHz) | Quasi-peak | Average | | | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | | | |
| 0.5-5 | 56 | 46 | | | | |
| 5-30 | 60 | 50 | | | | |
| *Decreases with the logarithm of the frequency | | | | | | |

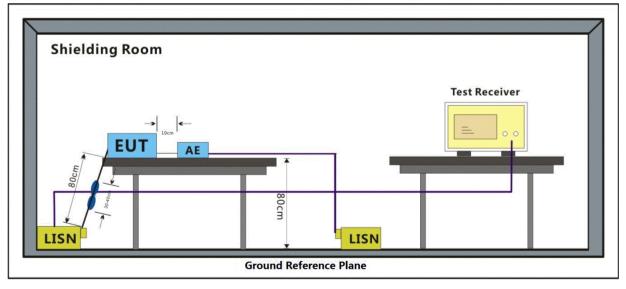
*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature:21.7 °CHumidity:52 % RHAtmospheric Pressure:1020mbarTest mode:g:Charge + TX_non-Hop mode_Keep the EUT in charging and continuously
transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK
modulation. All modes have been tested and only the data of worst case is recorded
in the report.

7.1.2 Test Setup Diagram





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Report No.: GZEM200601324202 Page: 18 of 111

7.1.3 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $500hm/50\mu$ H + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

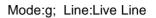
Remark: LISN=Read Level+ Cable Loss+ LISN Factor

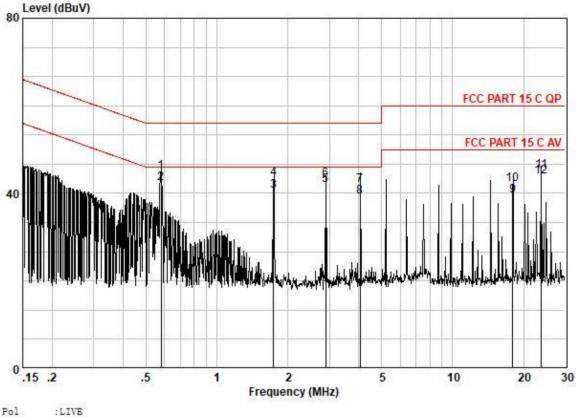


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Report No.: GZEM200601324202 Page: 19 of 111





No Model

| Frequency MHz 0.58 | read level dBuV 35.04 | Cable Loss dB 0.10 | LISN Factor dB 9.67 | Measured level dBuV 44.81 | Limit Line dBuV 56.00 | Over limit dB -11.19 | Remark QP |
|--------------------------|--------------------------------|-----------------------------|------------------------------|------------------------------------|--------------------------------|-------------------------------|--------------|
| 0. 58 | 32. 51 | 0.10 | 9.67 | 42.28 | 46.00 | -3.72 | AVERAGE |
| 1. 74 | 30. 74 | 0.10 | 9.69 | 40.53 | 46.00 | -5.47 | AVERAGE |
| 1.74 | 33. 61 | 0.10 | 9.69 | 43.40 | 56.00 | -12.60 | QP |
| 2.90 | 31. 91 | 0.19 | 9.69 | 4 1. 79 | 46.00 | -4. 21 | AVERAGE |
| 2.90 | 33. 21 | 0.19 | 9.69 | 43.09 | 56.00 | -12. 91 | QP |
| 4.06 | 31.95 | 0.20 | 9.70 | 41.85 | 56.00 | -14. 15 | QP |
| 4.06 | 29. 40 | 0. 20 | 9.70 | 39.30 | 46.00 | -6.70 | AVERAGE |
| 17.97 | 29.30 | 0.40 | 9.82 | 39.52 | 50.00 | -10.48 | AVERAGE |
| 17.97 | 31.91 | 0.40 | 9.82 | 42.13 | 60.00 | -17.87 | QP |
| 23.78 | 34.89 | 0. 40 | 9.80 | 45.09 | 60.00 | <mark>-14</mark> . 91 | QP |
| 23.78 | 33. 56 | 0. 40 | 9.80 | 43.76 | 50.00 | -6. 24 | AVERAGE |
| | | | | | | | |

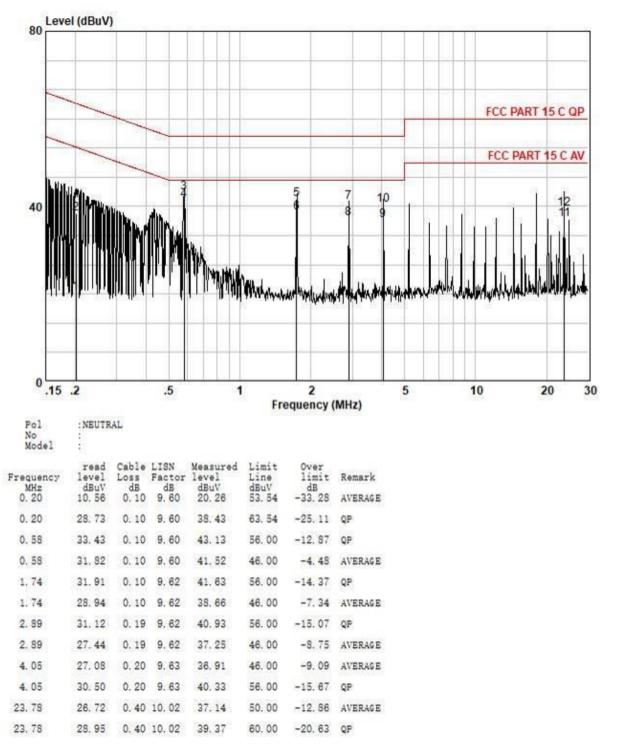


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Report No.: GZEM200601324202 Page: 20 of 111

Mode:g; Line:Neutral Line





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Report No.: GZEM200601324202 Page: 21 of 111

7.2 Conducted Peak Output Power

| Test Requirement | 47 CFR Part 15, Subpart C 15.247(b)(1) |
|------------------|--|
| Test Method: | ANSI C63.10 (2013) Section 7.8.5 |
| Limit: | |

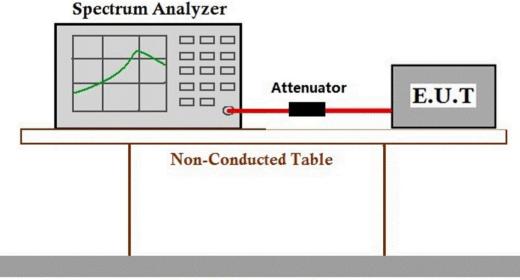
| Frequency range(MHz) | Output power of the intentional radiator(watt) |
|----------------------|--|
| | 1 for ≥50 hopping channels |
| 902-928 | 0.25 for 25≤ hopping channels <50 |
| | 1 for digital modulation |
| | 1 for ≥75 non-overlapping hopping channels |
| 2400-2483.5 | 0.125 for all other frequency hopping systems |
| | 1 for digital modulation |
| 5725-5850 | 1 for frequency hopping systems and digital modulation |

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:24.3 °CHumidity:55.7 % RHAtmospheric Pressure:1020mbarTest Mode:f:TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK
modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been
tested and only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: GZEM200601324202 Page: 22 of 111

7.3 20dB Bandwidth

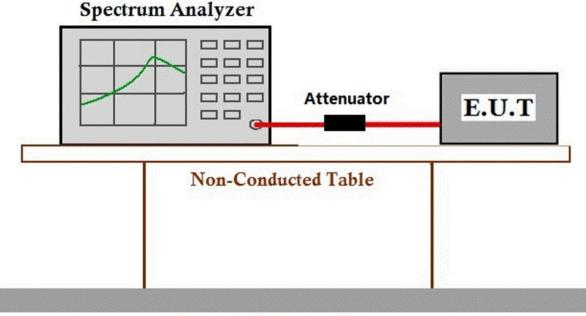
Test Requirement47 CFR Part 15, Subpart C 15.247(a)(1)Test Method:ANSI C63.10 (2013) Section 7.8.7

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: Test Mode: 24.3 °C Humidity: 55.7 % RH Atmospheric Pressure: 1020 mbar f:TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: GZEM200601324202 Page: 23 of 111

7.4 Carrier Frequencies Separation

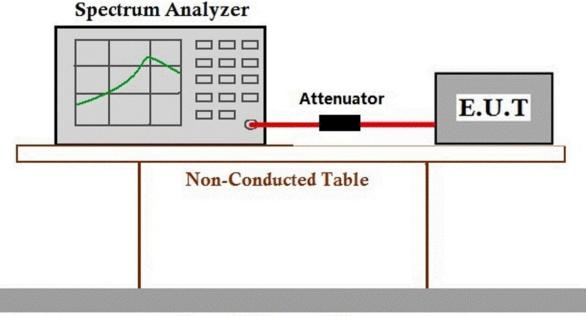
| Test Requirement | 47 CFR Part 15, Subpart C 15.247a(1) |
|------------------|--|
| Test Method: | ANSI C63.10 (2013) Section 7.8.2 |
| Limit: | 2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W |

7.4.1 E.U.T. Operation

Operating Environment:

Temperature:24.3 °CHumidity:55.7 % RHAtmospheric Pressure:1020mbarTest Mode:e:TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation,
 $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only
the data of worst case is recorded in the report.Atmospheric Pressure:
10201020Mbar

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: GZEM200601324202 Page: 24 of 111

7.5 Hopping Channel Number

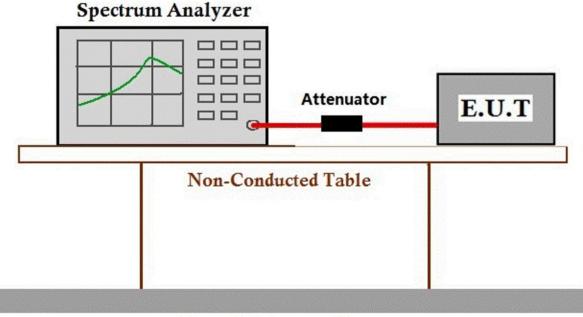
| Test Requirement | 47 CFR Part 15, Subpart C 15.247a(1)(iii) |
|------------------|---|
| Test Method: | ANSI C63.10 (2013) Section 7.8.3 |
| Limit: | |

| Frequency range(MHz) | Number of hopping channels (minimum) |
|----------------------|--------------------------------------|
| 902-928 | 50 for 20dB bandwidth <250kHz |
| | 25 for 20dB bandwidth ≥250kHz |
| 2400-2483.5 | 15 |
| 5725-5850 | 75 |

7.5.1 E.U.T. Operation

Operating Environment:

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: GZEM200601324202 Page: 25 of 111

7.6 Dwell Time

Test Requirement47 CFR Part 15, Subpart C 15.247a(1)(iii)Test Method:ANSI C63.10 (2013) Section 7.8.4Limit:Limit:

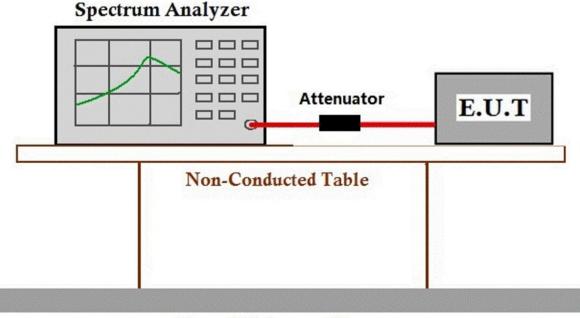
| Frequency(MHz) | Limit |
|----------------|---|
| 002.028 | 0.4S within a 20S period(20dB bandwidth<250kHz) |
| 902-928 | 0.4S within a 10S period(20dB bandwidth≥250kHz) |
| 2400-2483.5 | 0.4S within a period of 0.4S multiplied by the number |
| | of hopping channels |
| 5725-5850 | 0.4S within a 30S period |

7.6.1 E.U.T. Operation

Operating Environment:

Temperature:24.3 °CHumidity:55.8 % RHAtmospheric Pressure:1020mbarTest Mode:e:TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation,
 $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only
the data of worst case is recorded in the report.Atmospheric Pressure:
10201020Mbar

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: GZEM200601324202 Page: 26 of 111

7.7 Conducted Band Edges Measurement

| | - |
|------------------|--|
| Test Requirement | 47 CFR Part 15, Subpart C 15.247(d) |
| Test Method: | ANSI C63.10 (2013) Section 7.8.6 |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c) |
| | |

7.7.1 E.U.T. Operation

Operating Environment:

Temperature:24.3 °CHumidity:55.9 % RHAtmospheric Pressure:1020mbarTest mode:e:TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation,
 $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only
the data of worst case is recorded in the report.

f:TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

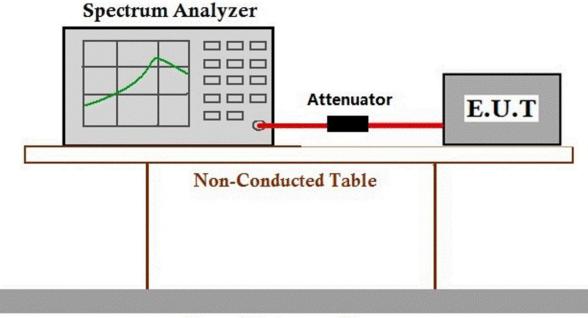


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Report No.: GZEM200601324202 Page: 27 of 111

7.7.2 Test Setup Diagram



Ground Reference Plane

7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: GZEM200601324202 Page: 28 of 111

7.8 Conducted Spurious Emissions

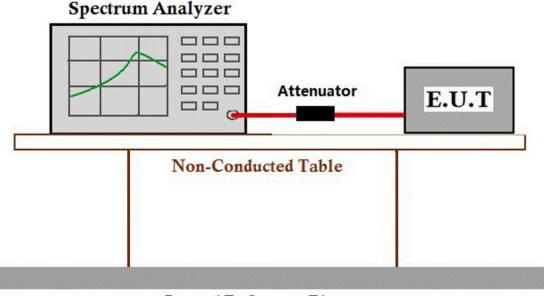
| - | |
|------------------|--|
| Test Requirement | 47 CFR Part 15, Subpart C 15.247(d) |
| Test Method: | ANSI C63.10 (2013) Section 7.8.8 |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c) |
| EILT Operation | |

7.8.1 E.U.T. Operation

Operating Environment:

Temperature:24.3 °CHumidity:55.8 % RHAtmospheric Pressure:1020mbarTest Mode:f:TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK
modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been
tested and only the data of worst case is recorded in the report.

7.8.2 Test Setup Diagram



Ground Reference Plane

7.8.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: GZEM200601324202 Page: 29 of 111

7.9 Radiated Emissions which fall in the restricted bands

| Test Requirement | 47 CFR Part 15, Subpart C 15.205 & 15.209 |
|-----------------------|---|
| Test Method: | ANSI C63.10 (2013) Section 6.10.5 |
| Measurement Distance: | 3m |
| Limit: | |

| Frequency(MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|----------------|--------------------------------------|----------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.9.1 E.U.T. Operation

Operating Environment:

| Temperature: | 24.5 °C | Humidity: | 51.2 % RH | Atmospheric Pressure: | 1020 | mbar |
|---|--------------|-----------------------------|-----------------|---|-------|------|
| Pretest these modes to find the worst case: | modulation, | π/4DQPSK | modulation, 8DP | ntinuously transmitting mo SK modulation. All modes recorded in the report. | | |
| | transmitting | mode with G All modes ha | FSK modulation | EUT in charging and cont , π/4DQPSK modulation, 8 and only the data of worst α | BDPSK | |
| The worst case for final test: | modulation, | π/4DQPSK | modulation, 8DP | ntinuously transmitting mo SK modulation. All modes recorded in the report. | | |

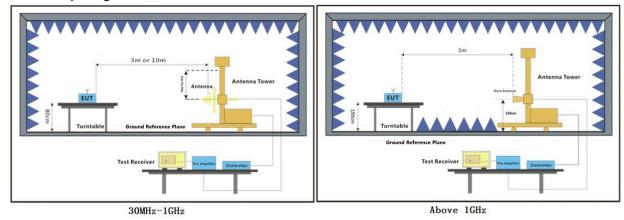


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Report No.: GZEM200601324202 Page: 30 of 111

7.9.2 Test Setup Diagram



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

Remark 2: 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.

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



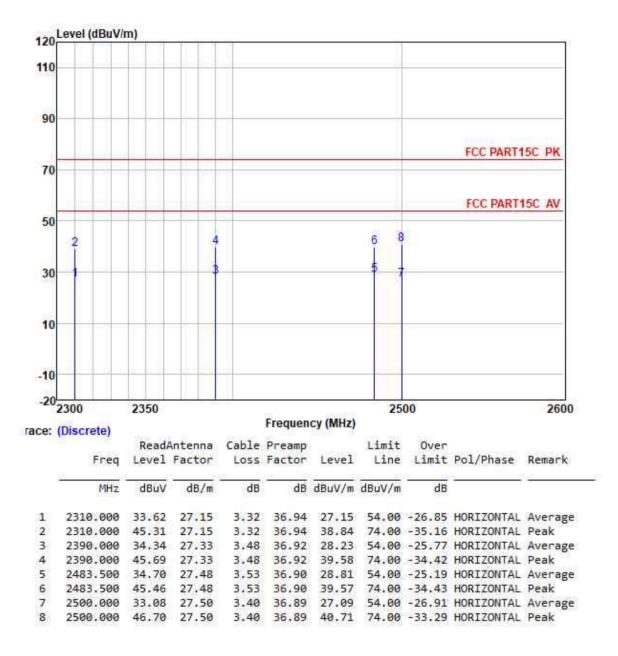
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Report No.: GZEM200601324202 Page: 31 of 111

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



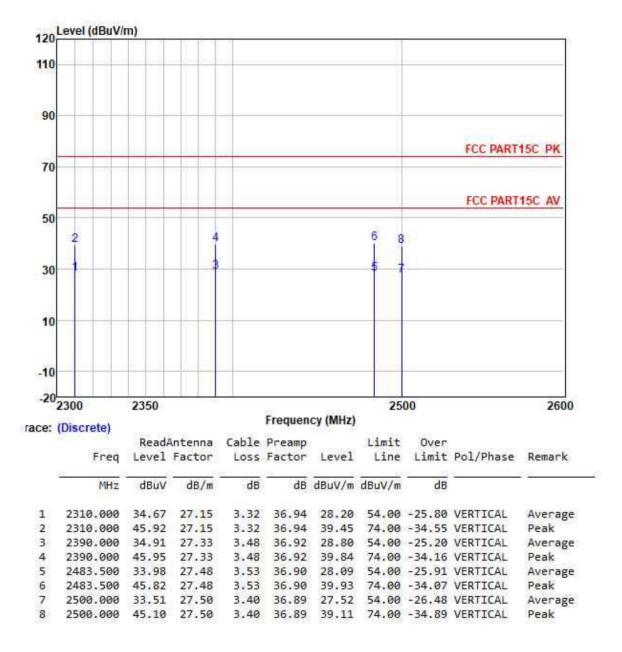


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Report No.: GZEM200601324202 Page: 32 of 111





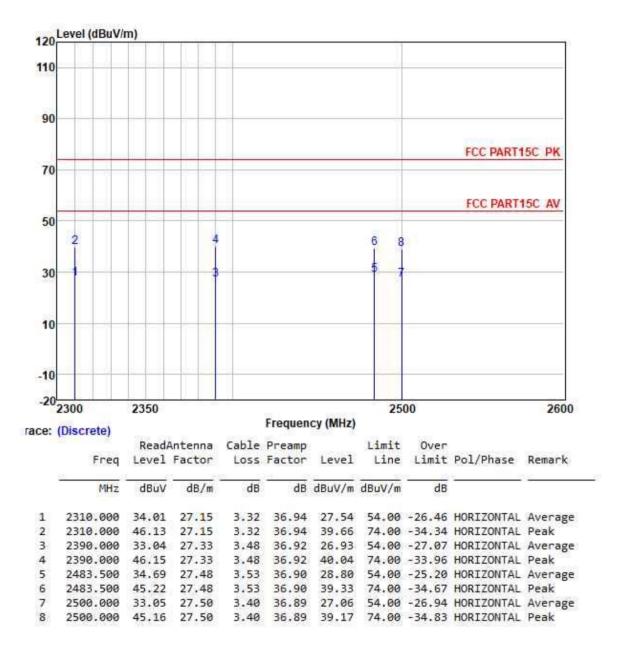


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Report No.: GZEM200601324202 Page: 33 of 111

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



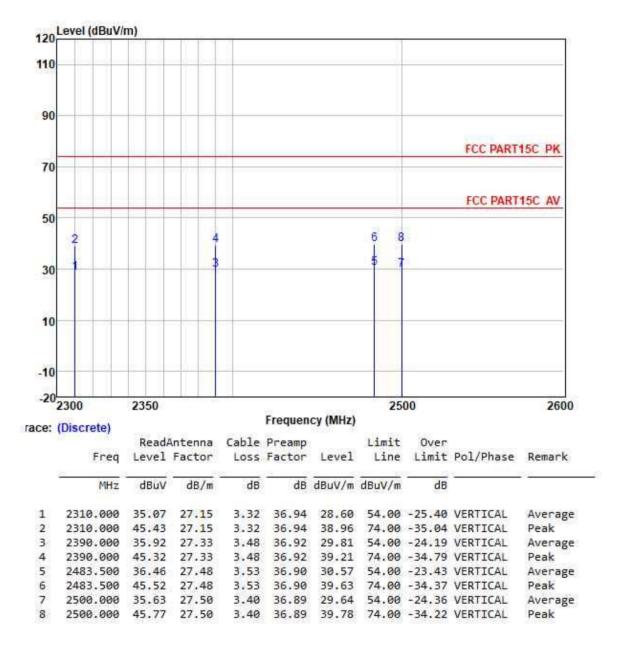


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Report No.: GZEM200601324202 Page: 34 of 111

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





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Report No.: GZEM200601324202 Page: 35 of 111

7.10 Radiated Spurious Emissions

| Test Requirement | 47 CFR Part 15, Subpart C 15.205 & 15.209 |
|-----------------------|---|
| Test Method: | ANSI C63.10 (2013) Section 6.4,6.5,6.6 |
| Measurement Distance: | 3m |
| Limit: | |

| Frequency(MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|----------------|--------------------------------------|----------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.



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Report No.: GZEM200601324202 Page: 36 of 111

7.10.1 E.U.T. Operation

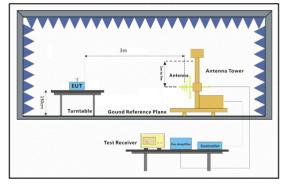
Operating Environment:

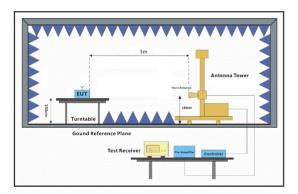
Temperature:24.5 °CHumidity:51.2 % RHAtmospheric Pressure:1020mbarPretest these
modes to find the
worst case:f:TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK
modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been
tested and only the data of worst case is recorded in the report.
g:Charge + TX_non-Hop mode_Keep the EUT in charging and continuously
transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK
modulation, 8DPSK modulation, 8DPSK
modulation. All modes have been tested and only the data of worst case is recorded
in the report.

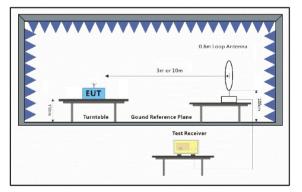
The worst case for final test:

f:TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.10.2Test Setup Diagram









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Report No.: GZEM200601324202 Page: 37 of 111

7.10.3 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.

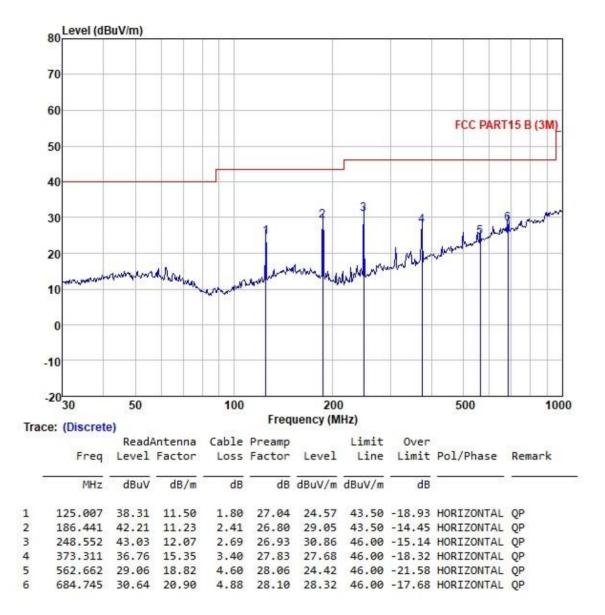
4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown



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Report No.: GZEM200601324202 Page: 38 of 111



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

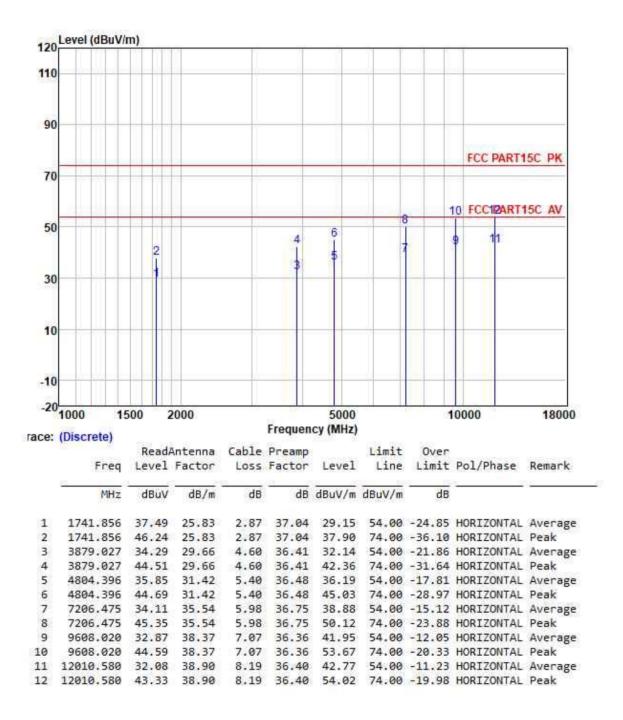


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Report No.: GZEM200601324202 Page: 39 of 111

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

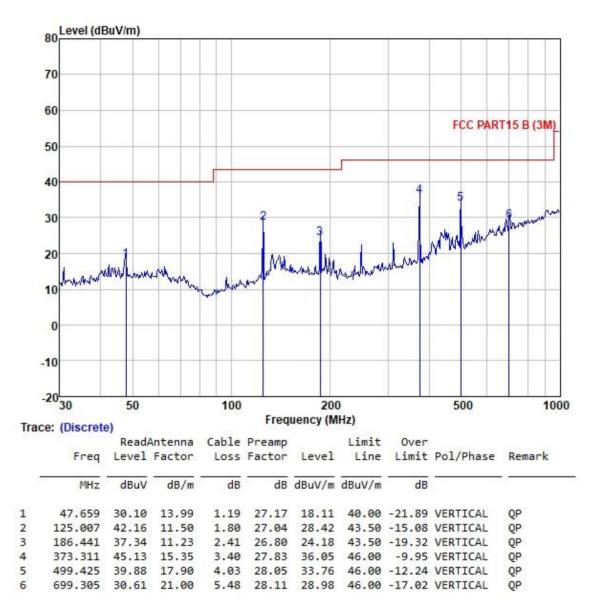




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Report No.: GZEM200601324202 Page: 40 of 111



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

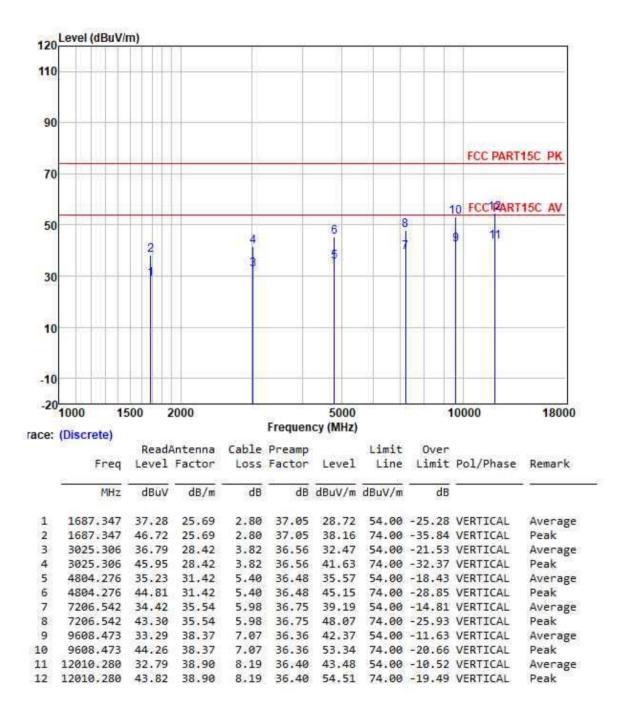


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Report No.: GZEM200601324202 Page: 41 of 111





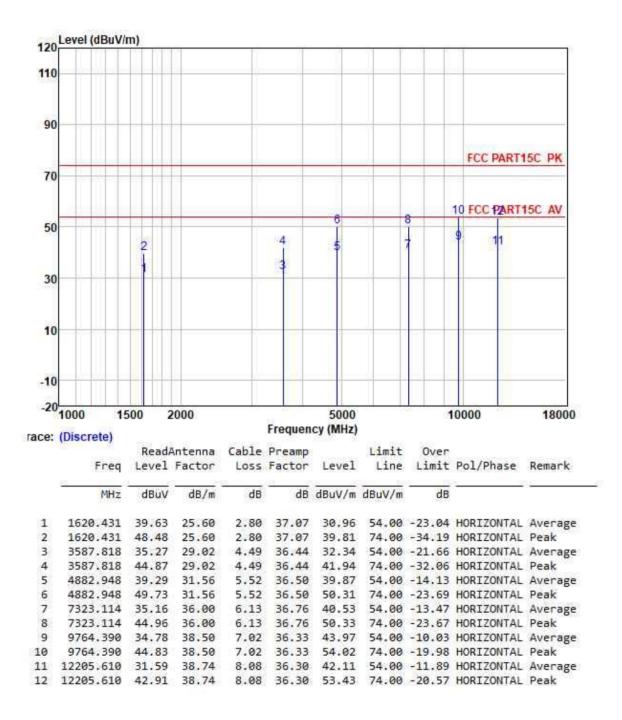


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Report No.: GZEM200601324202 Page: 42 of 111

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

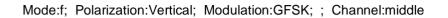


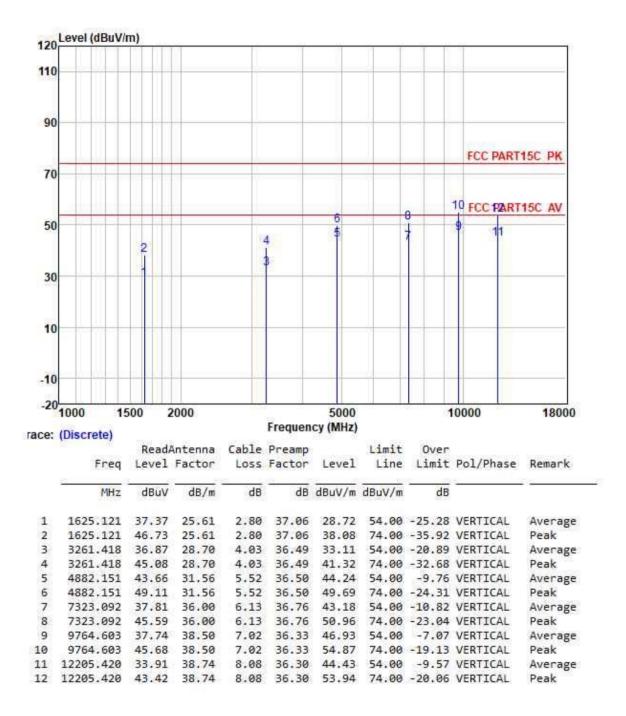


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Report No.: GZEM200601324202 Page: 43 of 111





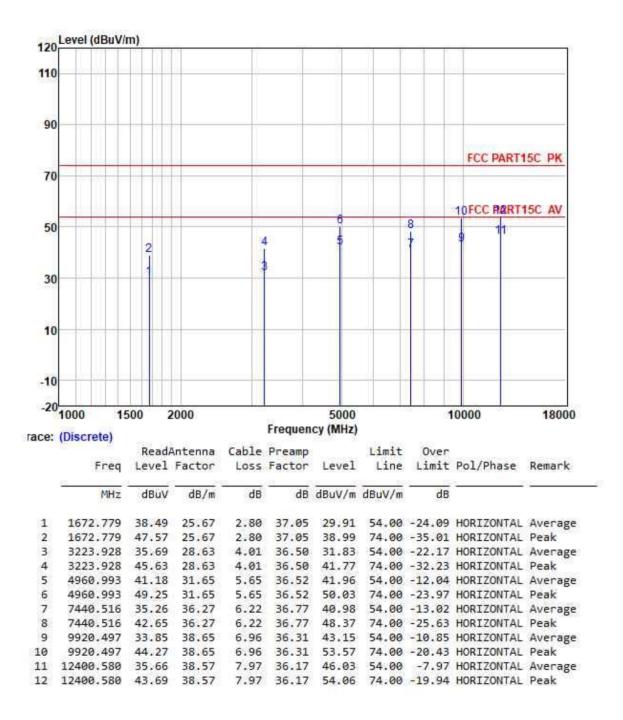


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Report No.: GZEM200601324202 Page: 44 of 111

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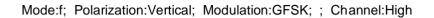


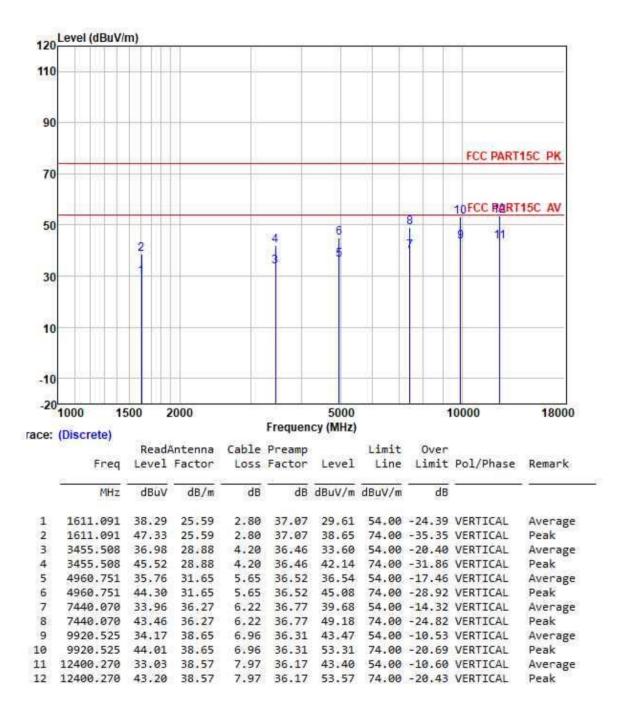


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Report No.: GZEM200601324202 Page: 45 of 111







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Report No.: GZEM200601324202 Page: 46 of 111

8 Appendix

8.1 Appendix 15.247

Cable Loss=0.9 dB

1. 20 dB Bandwidth

| Test Mode | Test Channel | 20 dB Bandwidth [MHz] | Limit[MHz] | Verdict |
|-----------|--------------|-----------------------|------------|---------|
| DH5 | 2402 | 0.9345 | | PASS |
| DH5 | 2441 | 0.9354 | | PASS |
| DH5 | 2480 | 0.9368 | | PASS |
| 2DH5 | 2402 | 1.322 | | PASS |
| 2DH5 | 2441 | 1.321 | | PASS |
| 2DH5 | 2480 | 1.321 | | PASS |
| 3DH5 | 2402 | 1.313 | | PASS |
| 3DH5 | 2441 | 1.317 | | PASS |
| 3DH5 | 2480 | 1.307 | | PASS |



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Report No.: GZEM200601324202 Page: 47 of 111

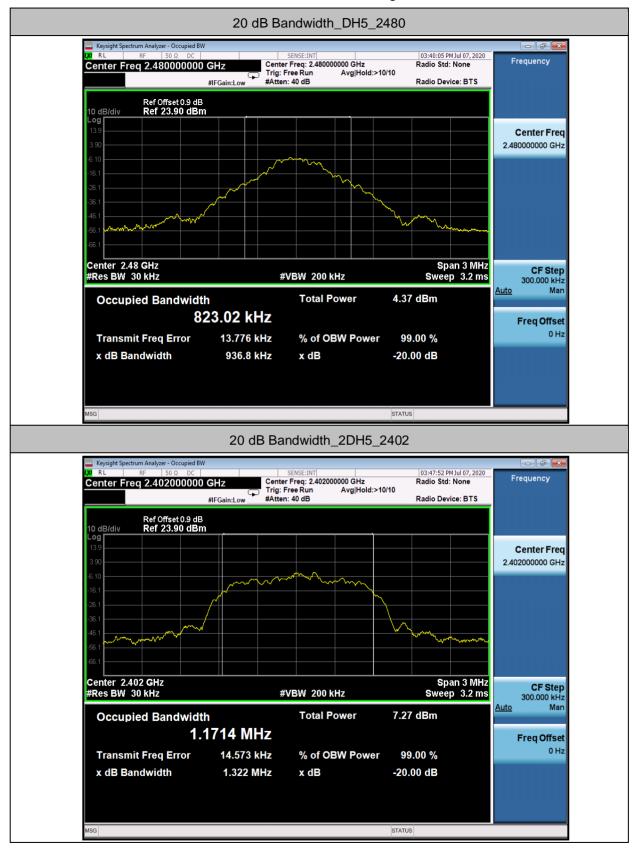




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Report No.: GZEM200601324202 Page: 48 of 111





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Report No.: GZEM200601324202 Page: 49 of 111

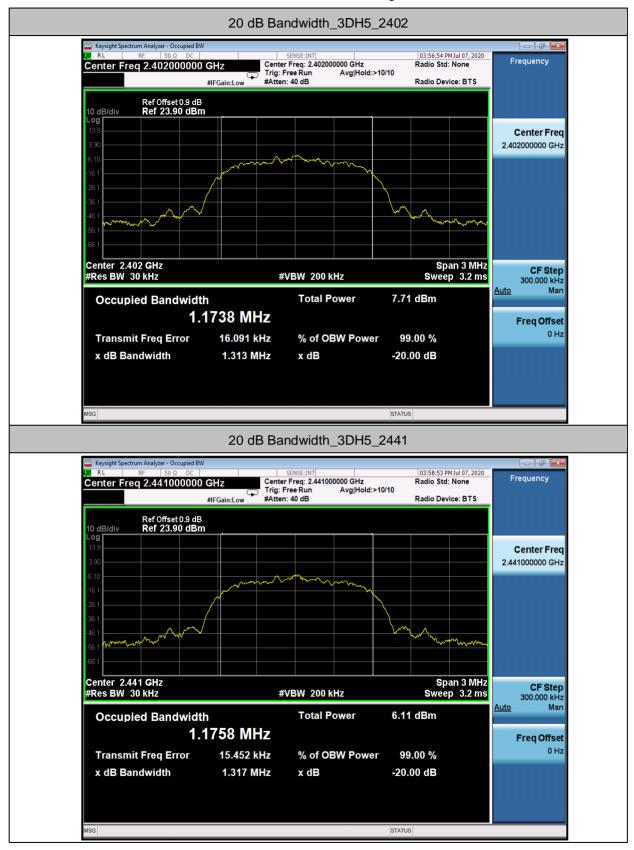




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Report No.: GZEM200601324202 Page: 50 of 111

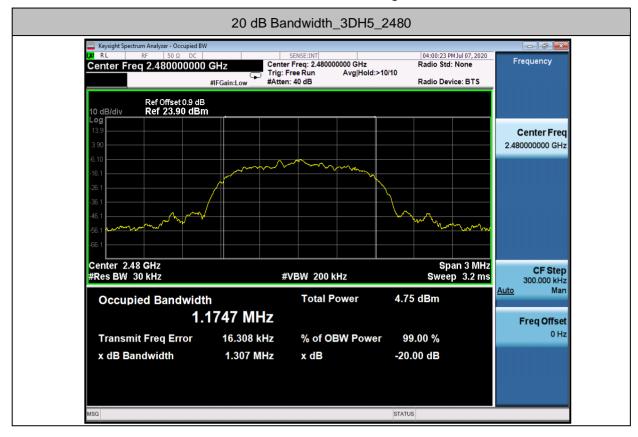




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Report No.: GZEM200601324202 Page: 51 of 111





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Report No.: GZEM200601324202 Page: 52 of 111

| Test Mode | Test Channel | Power[dBm] | Limit[dBm] | Verdict |
|-----------|--------------|------------|------------|---------|
| DH5 | 2402 | -0.063 | 21 | PASS |
| DH5 | 2441 | -1.585 | 21 | PASS |
| DH5 | 2480 | -2.945 | 21 | PASS |
| 2DH5 | 2402 | 1.873 | 21 | PASS |
| 2DH5 | 2441 | 0.122 | 21 | PASS |
| 2DH5 | 2480 | -1.173 | 21 | PASS |
| 3DH5 | 2402 | 2.510 | 21 | PASS |
| 3DH5 | 2441 | 0.888 | 21 | PASS |
| 3DH5 | 2480 | -0.617 | 21 | PASS |

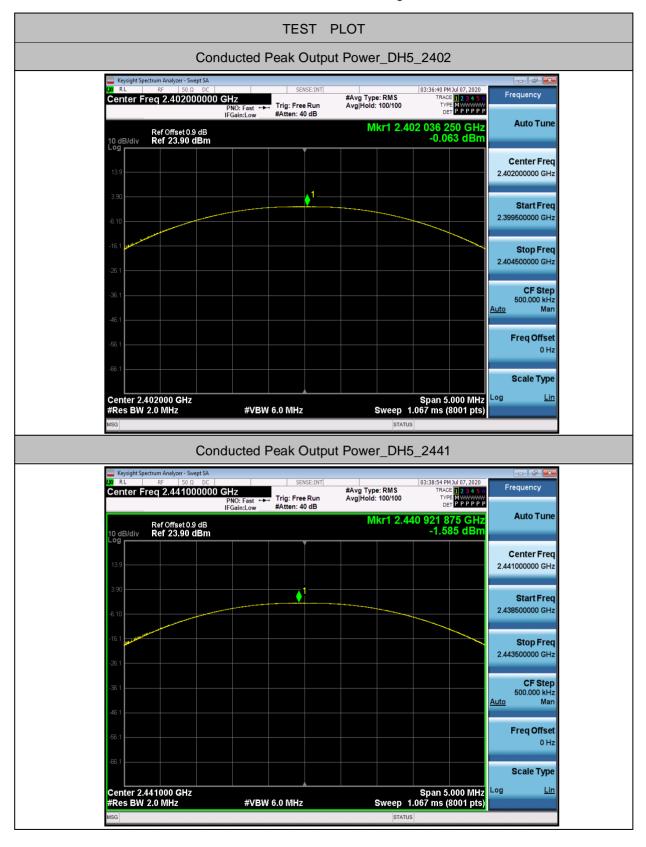
2.Conducted Peak Output Power



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Report No.: GZEM200601324202 Page: 53 of 111

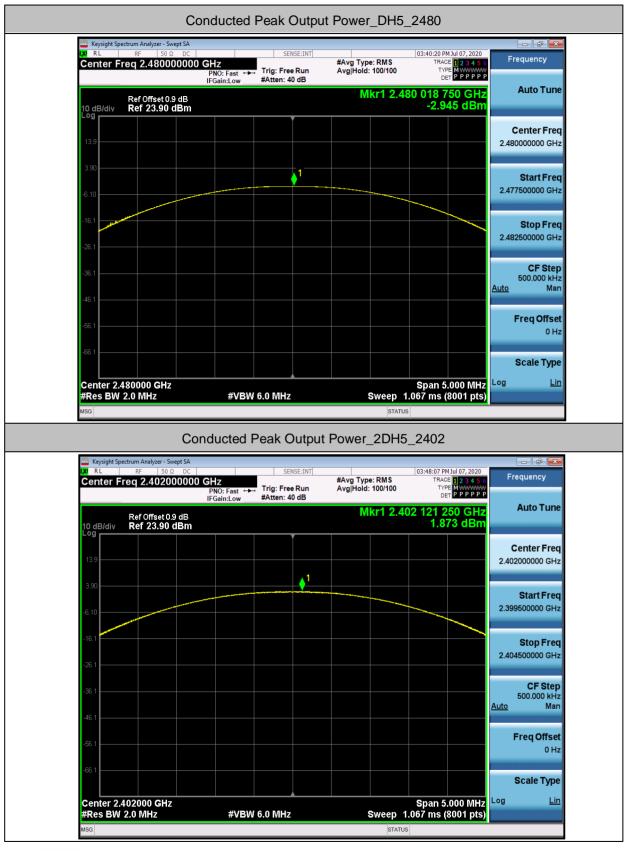


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Report No.: GZEM200601324202 Page: 54 of 111

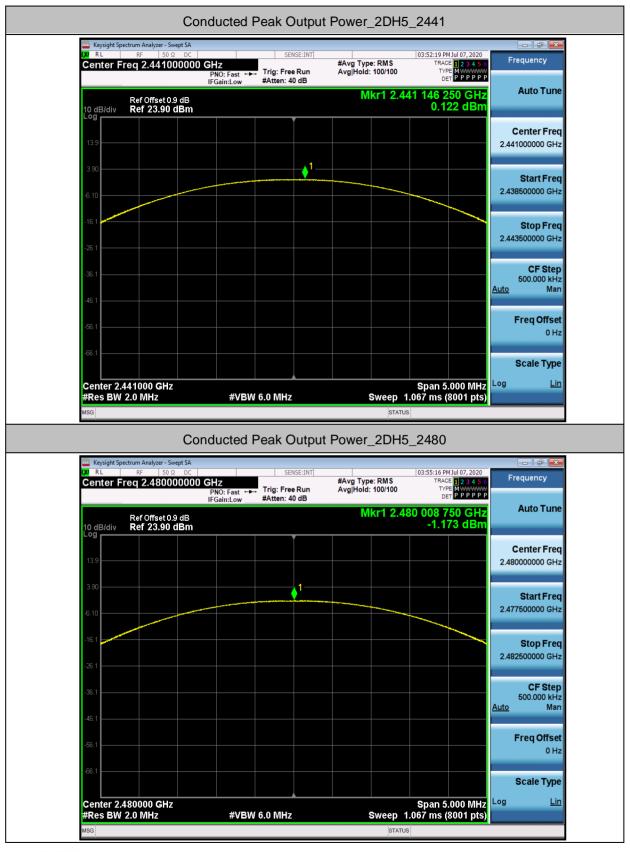


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Report No.: GZEM200601324202 Page: 55 of 111



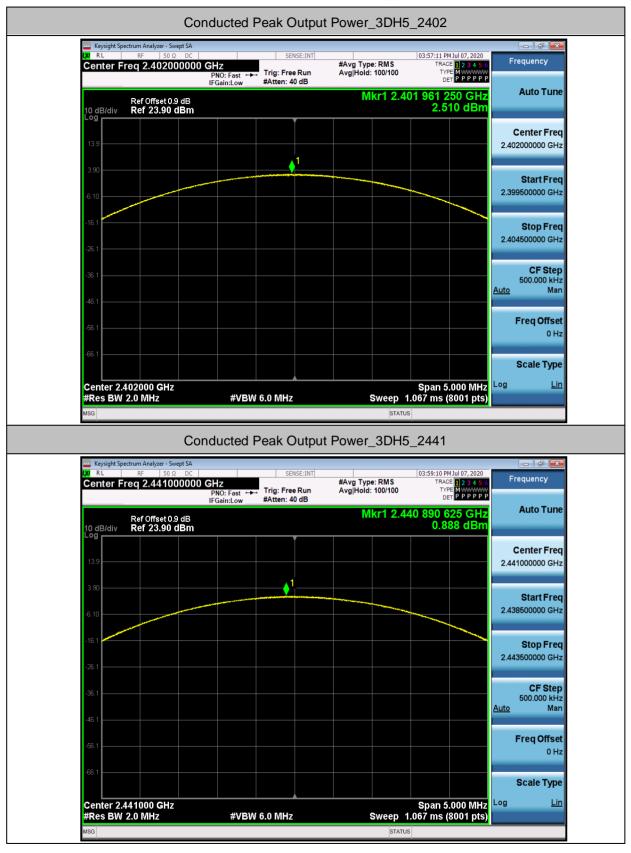
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Report No.: GZEM200601324202 Page: 56 of 111

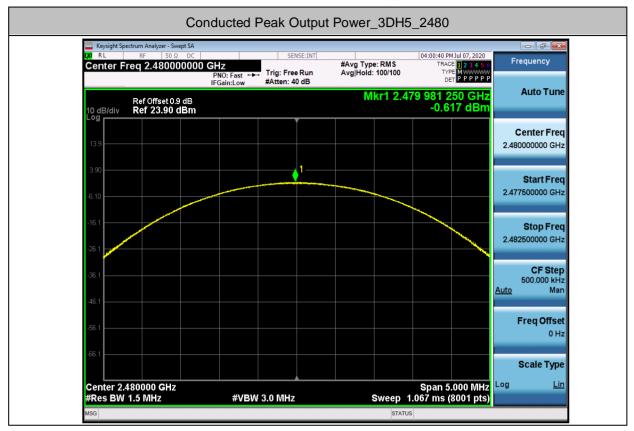


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Report No.: GZEM200601324202 Page: 57 of 111



3.Carrier Frequency Separation

| Test Mode | Test Channel | Result[MHz] | Limit[MHz] | Verdict |
|-----------|--------------|-------------|------------|---------|
| DH5 | 2402 | 0.836 | 0.623 | PASS |
| DH5 | 2441 | 1.180 | 0.623 | PASS |
| DH5 | 2480 | 0.991 | 0.661 | PASS |



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Report No.: GZEM200601324202 Page: 58 of 111

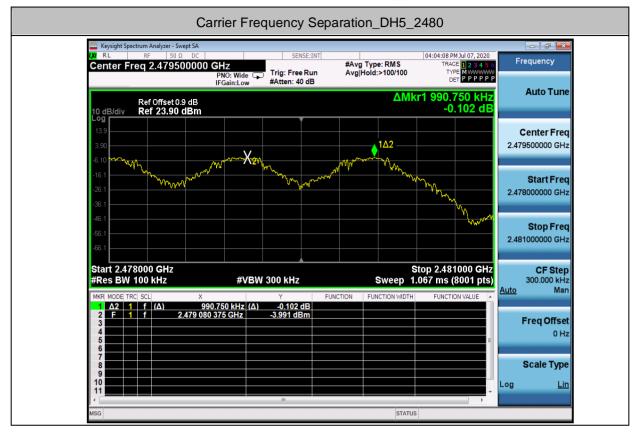


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Report No.: GZEM200601324202 Page: 59 of 111





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Report No.: GZEM200601324202 Page: 60 of 111

4.Dwell Time

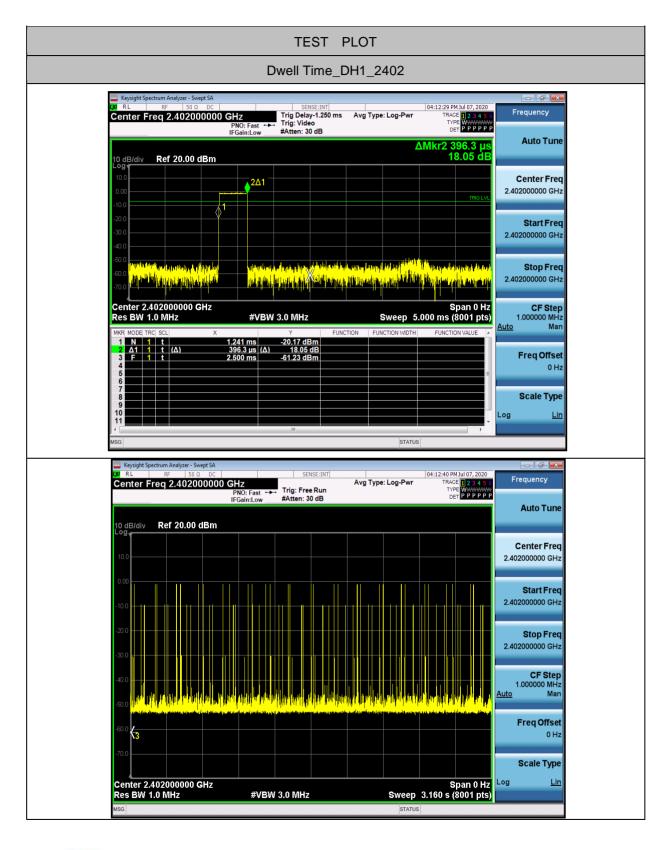
| Test Mode | Test Channel | Burst Width[ms/hop/ch] | Total Hops[hop*ch] | Dwell Time[s] | Limit[s] | Verdict |
|--------------|-----------------|---------------------------|-----------------------|------------------|----------|---------|
| DH1 | 2402 | 0.40 | 320 | 0.13 | 0.4 | PASS |
| DH1 | 2441 | 0.40 | 320 | 0.13 | 0.4 | PASS |
| DH1 | 2480 | 0.40 | 320 | 0.13 | 0.4 | PASS |
| DH3 | 2402 | 1.65 | 120 | 0.20 | 0.4 | PASS |
| DH3 | 2441 | 1.65 | 130 | 0.21 | 0.4 | PASS |
| DH3 | 2480 | 1.65 | 160 | 0.26 | 0.4 | PASS |
| DH5 | 2402 | 2.90 | 110 | 0.32 | 0.4 | PASS |
| DH5 | 2441 | 2.90 | 90 | 0.26 | 0.4 | PASS |
| DH5 | 2480 | 2.90 | 60 | 0.17 | 0.4 | PASS |
| 2DH1 | 2402 | 0.41 | 320 | 0.13 | 0.4 | PASS |
| 2DH1 | 2441 | 0.41 | 320 | 0.13 | 0.4 | PASS |
| 2DH1 | 2480 | 0.41 | 320 | 0.13 | 0.4 | PASS |
| 2DH3 | 2402 | 1.66 | 130 | 0.22 | 0.4 | PASS |
| 2DH3 | 2441 | 1.66 | 140 | 0.23 | 0.4 | PASS |
| 2DH3 | 2480 | 1.66 | 170 | 0.28 | 0.4 | PASS |
| 2DH5 | 2402 | 2.90 | 100 | 0.29 | 0.4 | PASS |
| 2DH5 | 2441 | 2.90 | 120 | 0.35 | 0.4 | PASS |
| 2DH5 | 2480 | 2.90 | 120 | 0.35 | 0.4 | PASS |
| 3DH1 | 2402 | 0.41 | 320 | 0.13 | 0.4 | PASS |
| 3DH1 | 2441 | 0.41 | 320 | 0.13 | 0.4 | PASS |
| 3DH1 | 2480 | 0.41 | 320 | 0.13 | 0.4 | PASS |
| 3DH3 | 2402 | 1.66 | 180 | 0.30 | 0.4 | PASS |
| 3DH3 | 2441 | 1.66 | 190 | 0.32 | 0.4 | PASS |
| 3DH3 | 2480 | 1.65 | 170 | 0.28 | 0.4 | PASS |
| 3DH5 | 2402 | 2.91 | 100 | 0.29 | 0.4 | PASS |
| 3DH5 | 2441 | 2.91 | 120 | 0.35 | 0.4 | PASS |
| 3DH5 | 2480 | 2.91 | 100 | 0.29 | 0.4 | PASS |



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Report No.: GZEM200601324202 Page: 61 of 111

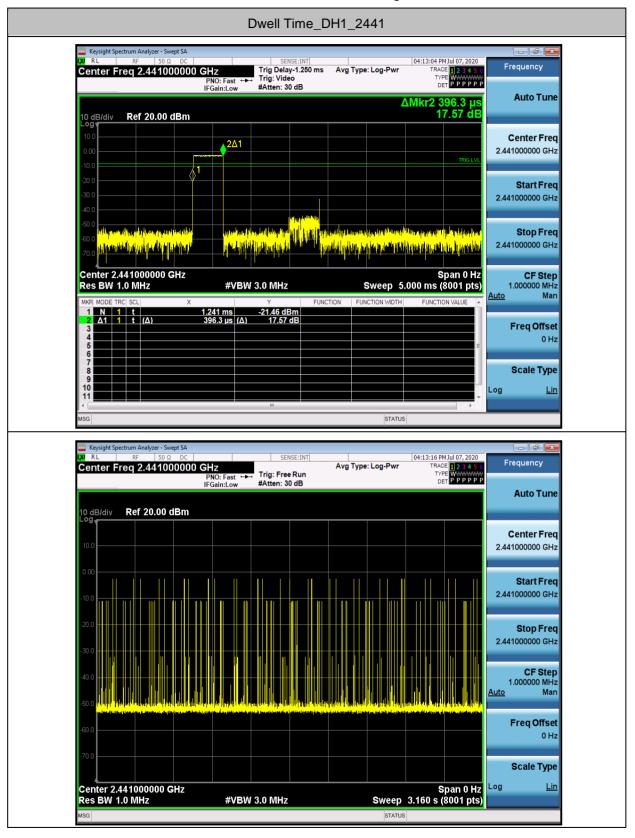




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Report No.: GZEM200601324202 Page: 62 of 111

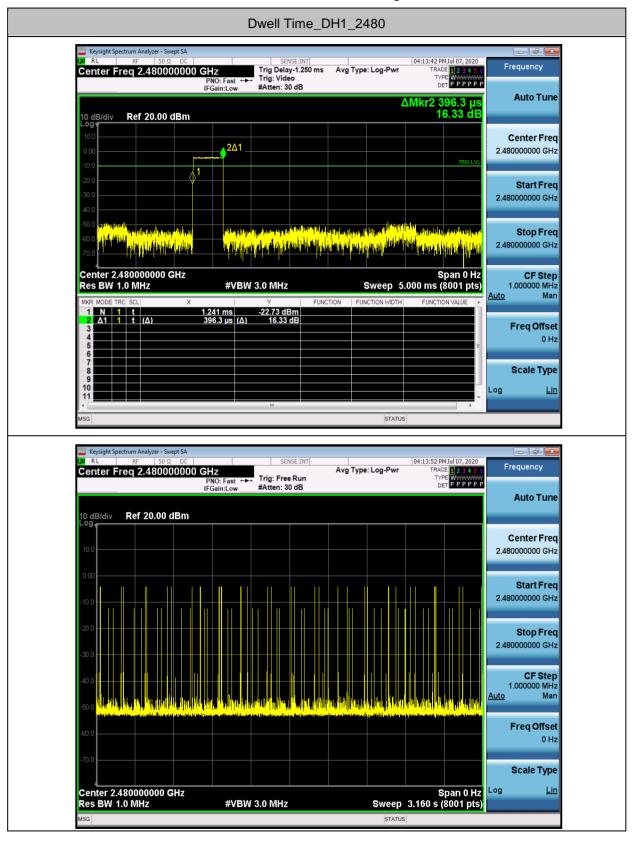


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Report No.: GZEM200601324202 Page: 63 of 111

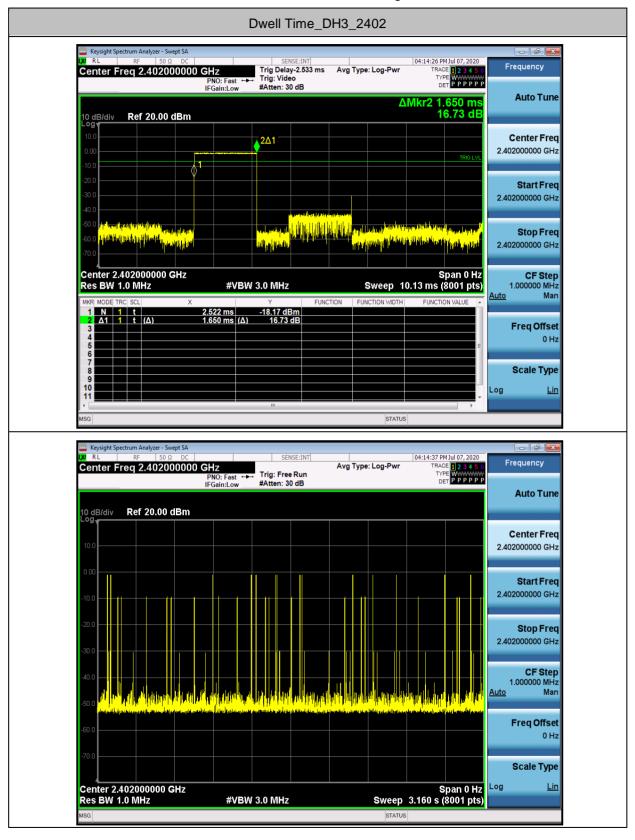




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Report No.: GZEM200601324202 Page: 64 of 111

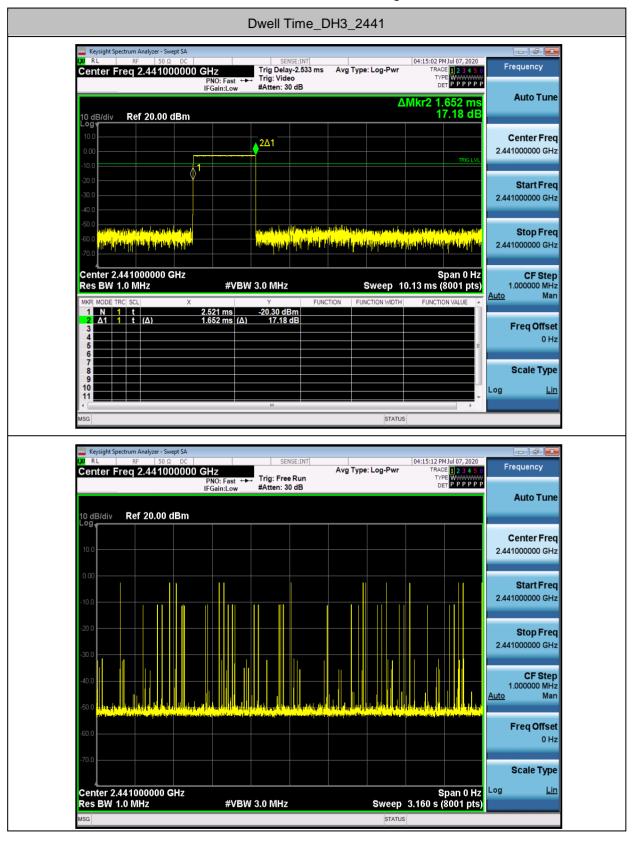




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Report No.: GZEM200601324202 Page: 65 of 111

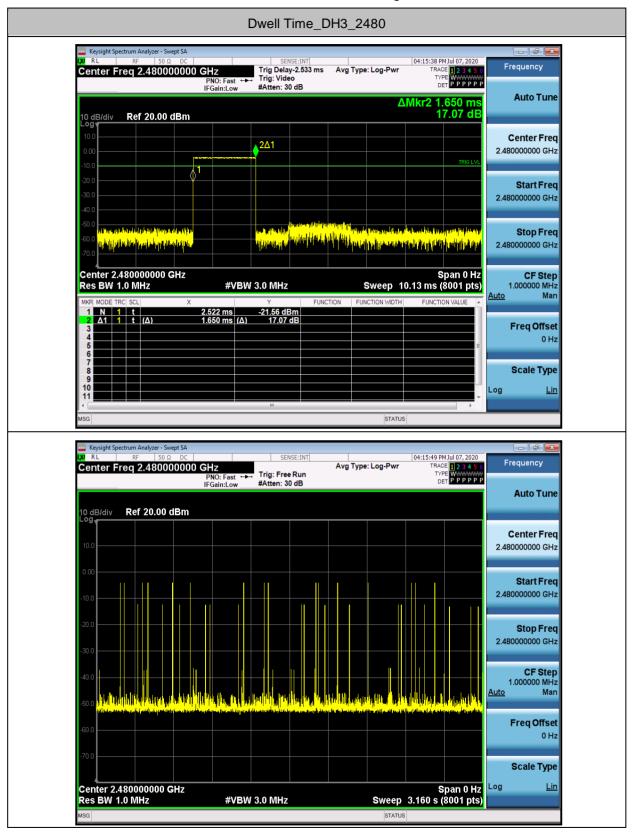




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Report No.: GZEM200601324202 Page: 66 of 111

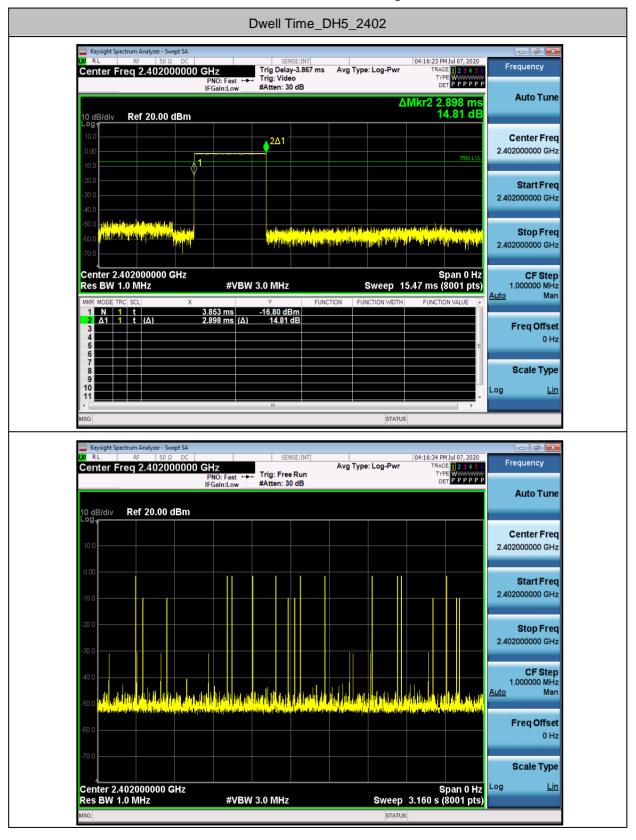




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Report No.: GZEM200601324202 Page: 67 of 111

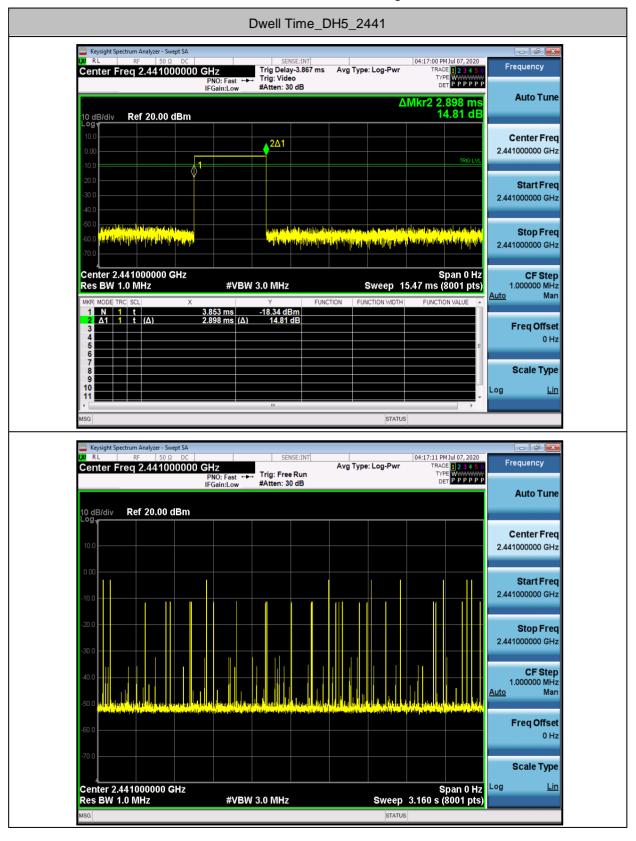




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Report No.: GZEM200601324202 Page: 68 of 111

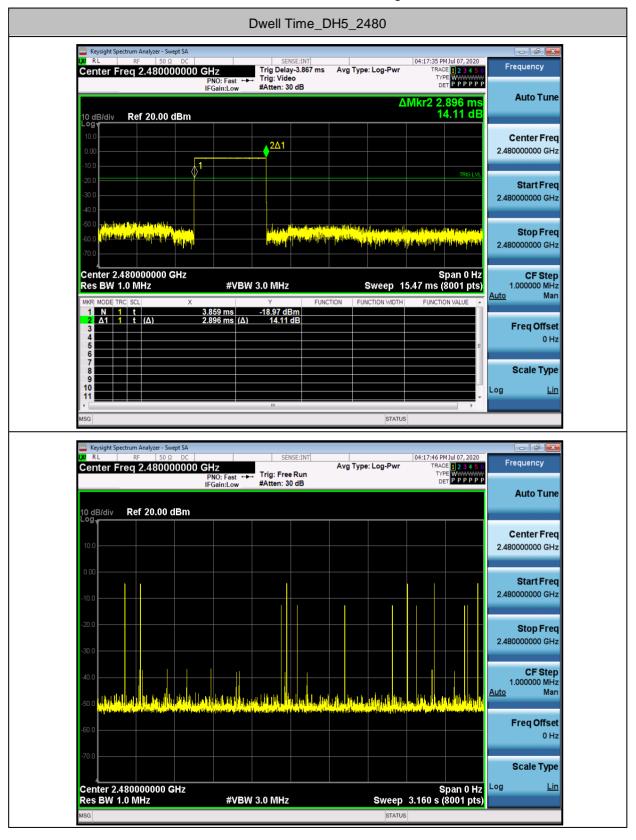




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Report No.: GZEM200601324202 Page: 69 of 111

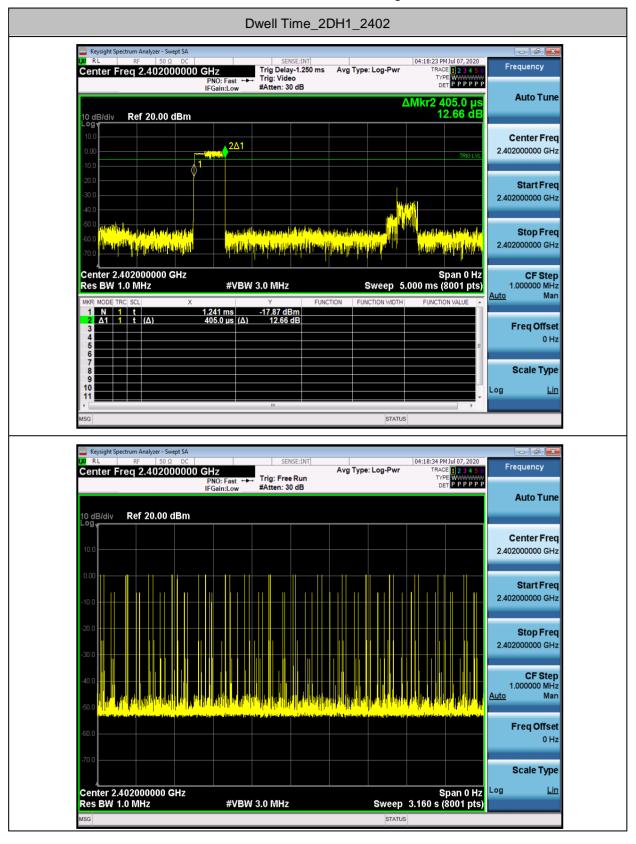




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Report No.: GZEM200601324202 Page: 70 of 111





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