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Product Mi Bluetooth Speaker

Trade mark N/A

Model/Type reference : MDZ-26-DA

Serial Number N/A

Report Number EED32J00053001 **FCC ID** : 2AFZYMDZ-26-DB

Date of Issue : Apr. 17, 2017

Test Standards : 47 CFR Part 15 Subpart C (2015)

Test result : PASS

Prepared for:

Xiaomi Inc

The Rainbow City of China Resources, No. 68, Qinghe Middle Street, Haidian District, Beijing, China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Tested By:

Date:

Tom- chen

Tom chen (Test Project)

Reviewed by:

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Apr. 17, 2017

Compiled by:

Ware xin (Project Engineer)

Sheek Luo (Lab supervisor)

Check No.: 2325261069







2 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | Apr. 17, 2017 | Original |
| | | |
| | (35) | |











































































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3 Test Summary

| rest Summary | | Z°2 | | |
|---|--|------------------|--------|--|
| Test Item | Test Requirement | Test method | Result | |
| Antenna Requirement | 47 CFR Part 15 Subpart C Section 15.203/15.247 (c) | ANSI C63.10-2013 | PASS | |
| AC Power Line Conducted Emission | 47 CFR Part 15 Subpart C Section 15.207 | ANSI C63.10-2013 | PASS | |
| Conducted Peak Output Power | 47 CFR Part 15 Subpart C Section 15.247 (b)(1) | ANSI C63.10-2013 | PASS | |
| 20dB Occupied Bandwidth | 47 CFR Part 15 Subpart C Section 15.247 (a)(1) | ANSI C63.10-2013 | PASS | |
| Carrier Frequencies Separation | 47 CFR Part 15 Subpart C Section 15.247 (a)(1) | ANSI C63.10-2013 | PASS | |
| Hopping Channel Number | 47 CFR Part 15 Subpart C Section 15.247 (b) | ANSI C63.10-2013 | PASS | |
| Dwell Time | 47 CFR Part 15 Subpart C Section 15.247 (a)(1) | ANSI C63.10-2013 | PASS | |
| Pseudorandom Frequency Hopping Sequence | 47 CFR Part 15 Subpart C Section 15.247(b)(4)&TCB Exclusion List (7 July 2002) | ANSI C63.10-2013 | PASS | |
| RF Conducted Spurious Emissions | 47 CFR Part 15 Subpart C Section 15.247(d) | ANSI C63.10-2013 | PASS | |
| Radiated Spurious emissions | 47 CFR Part 15 Subpart C Section 15.205/15.209 | ANSI C63.10-2013 | PASS | |
| Do mo o wler | 162.1 | UKATU | 10.0 | |

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

The tested samples and the sample information are provided by the client.





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4 Content

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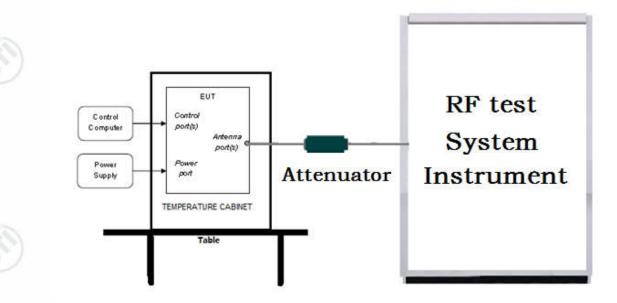


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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

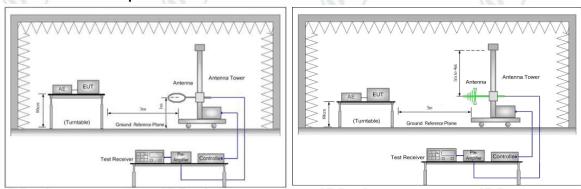


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

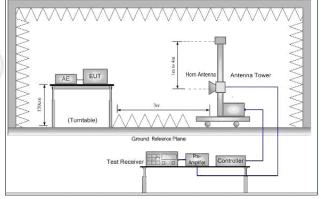


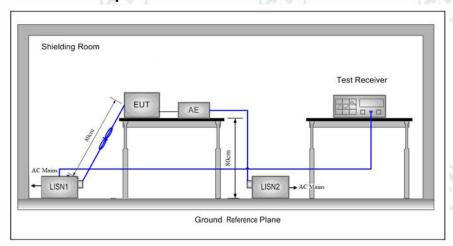
Figure 3. Above 1GHz





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5.1.3 For Conducted Emissions test setup Conducted Emissions setup



5.2 Test Environment

| Operating Environment: | | 0 |
|------------------------|----------|---|
| Temperature: | 24°C | |
| Humidity: | 50% RH | |
| Atmospheric Pressure: | 1010mbar | |

5.3 Test Condition

| Toot Mode | Tv | RF Channel | | | | |
|--|----------------------|------------|------------|-----------|--|--|
| Test Mode | Тх | Low(L) | Middle(M) | High(H) | | |
| GFSK/π/4DQPSK/ | 5) 2402MHz ~2480 MHz | Channel 1 | Channel 40 | Channel79 | | |
| 8DPSK(DH1,DH3,DH5) | | 2402MHz | 2441MHz | 2480MHz | | |
| TX mode: The EUT transmitted the continuous modulation test signal at the specific channel(s). | | | | | | |

Test mode:

Pre-scan under all rate at Highest channel 79

| Mode | GFSK | | | | |
|------------|-------|-------|-------|--|--|
| packets | 1-DH1 | 1-DH3 | 1-DH5 | | |
| Power(dBm) | 4.292 | 4.301 | 4.307 | | |

| Mode | | π/4DQPSK | |
|------------|-------|----------|-------|
| packets | 2-DH1 | 2-DH3 | 2-DH5 |
| Power(dBm) | 5.069 | 5.077 | 5.084 |
| Mode | | 8DPSK | |
| packets | 3-DH1 | 3-DH3 | 3-DH5 |
| Power(dBm) | 5.288 | 5.296 | 5.301 |

Through Pre-scan, 1-DH5 packet the power is the worst case of GFSK, 2-DH5 packet the power is the worst case of $\pi/4DQPSK$, 3-DH5 packet the power is the worst case of 8DPSK.













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6 General Information

6.1 Client Information

| Applicant: | Xiaomi Inc |
|--------------------------|---|
| Address of Applicant: | The Rainbow City of China Resources, No. 68, Qinghe Middle Street, Haidian District, Beijing, China |
| Manufacturer: | Xiaomi Inc |
| Address of Manufacturer: | The Rainbow City of China Resources, No. 68, Qinghe Middle Street, Haidian District, Beijing, China |
| Factory: | Shenzhen 3Nod Digital Technology Co., Ltd. |
| Address of Factory: | Building D Park 8# Langhui Road Tangxiayong Village Industrial Zone Songgang Town Baoan District Shenzhen City China |

6.2 General Description of EUT

| Product Name: | Mi Bluetooth Speaker | | |
|----------------------------------|--------------------------------|-------------------------|-----|
| Model No.(EUT): | MDZ-26-DA | | |
| Trade mark: | N/A | | (3) |
| EUT Supports Radios application: | BT 4.0 Dual mode | (61) | (6) |
| Power Supply: | DC 5V for USB / DC 3.8V 1500r | mAh Battery pack Li-ion | |
| Sample Received Date: | Mar. 28, 2017 | 1964 | |
| Sample tested Date: | Mar. 28, 2017 to Apr. 17, 2017 | | (1) |

6.3 Product Specification subjective to this standard

| Operation | Frequency: | 2402MHz~2480MHz | | | | | | |
|------------|---|-----------------|--------------------------------|---------------|-----------|---------|-----------|--|
| Bluetooth | Version: | 3.0+EDF | { | | 42 | | | |
| Modulatio | dulation Technique: Frequency Hopping Spread Spectrum(FHSS) | | | | | | | |
| Modulatio | n Type: | GFSK, π | GFSK, π/4DQPSK, 8DPSK | | | | | |
| Number o | f Channel: | 79 | 79 | | | | | |
| Hopping C | Channel Type: | Adaptive | Frequency Ho | pping systen | ns | | | |
| Test Powe | er Grade: | 4 (manut | facturer declare | e) | | 730 | \ | |
| Test Softv | vare of EUT: | Bluetootl | n MP Tool (ma | nufacturer de | eclare) | (63) |) | |
| Antenna T | ype: | Monopol | e Antenna | | | | | |
| Antenna C | Gain: | 2.5dBi | | | | | | |
| Test Volta | ge: | AC 120V | /, 60Hz | | 705 | | /°5 | |
| Operation | Frequency ea | ch of channe | el (a) |) | (6) |) | (8/1) | |
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency | |
| 1 | 2402MHz | 21 | 2422MHz | 41 | 2442MHz | 61 | 2462MHz | |
| 2 | 2403MHz | 22 | 2423MHz | 42 | 2443MHz | 62 | 2463MHz | |
| 3 | 2404MHz | 23 | 2424MHz | 43 | 2444MHz | 63 | 2464MHz | |
| 4 | 2405MHz | 24 | 2425MHz | 44 | 2445MHz | 64 | 2465MHz | |
| 5 | 2406MHz | 25 | 25 2426MHz 45 2446MHz 65 2466N | | | | | |
| 6 | 2407MHz | 26 | 2427MHz | 46 | 2447MHz | 66 | 2467MHz | |
| 7 | 2408MHz | 27 | 2428MHz | 47 | 2448MHz | 67 | 2468MHz | |
| 8 | 2409MHz | 28 | 2429MHz | 48 | 2449MHz | 68 | 2469MHz | |



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| 9 | 2410MHz | 29 | 2430MHz | 49 | 2450MHz | 69 | 2470MHz |
|------|---------|-----|---------|-----|---------|-----|---------|
| - 73 | | -/3 | | -/3 | | -/: | |
| 10 | 2411MHz | 30 | 2431MHz | 50 | 2451MHz | 70 | 2471MHz |
| 11 | 2412MHz | 31 | 2432MHz | 51 | 2452MHz | 71 | 2472MHz |
| 12 | 2413MHz | 32 | 2433MHz | 52 | 2453MHz | 72 | 2473MHz |
| 13 | 2414MHz | 33 | 2434MHz | 53 | 2454MHz | 73 | 2474MHz |
| 14 | 2415MHz | 34 | 2435MHz | 54 | 2455MHz | 74 | 2475MHz |
| 15 | 2416MHz | 35 | 2436MHz | 55 | 2456MHz | 75 | 2476MHz |
| 16 | 2417MHz | 36 | 2437MHz | 56 | 2457MHz | 76 | 2477MHz |
| 17 | 2418MHz | 37 | 2438MHz | 57 | 2458MHz | 77 | 2478MHz |
| 18 | 2419MHz | 38 | 2439MHz | 58 | 2459MHz | 78 | 2479MHz |
| 19 | 2420MHz | 39 | 2440MHz | 59 | 2460MHz | 79 | 2480MHz |
| 20 | 2421MHz | 40 | 2441MHz | 60 | 2461MHz | | |

6.4 Description of Support Units

The EUT has been tested with associated equipment below.

| Associated equipment name | | Manufacture | model | Serial number | Supplied by |
|---------------------------|---------|-------------|-------------|---------------|-------------|
| AE1 | adupter | JBL | F5V-2.3C-1V | EP-4007837 | СТІ |

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

6.6 Test Facility

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

CNAS-Lab Code: L1910

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories..

A2LA-Lab Cert. No. 3061.01

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 886427

Centre Testing International Group 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 886427.

IC-Registration No.: 7408A-2



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The 3m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A-2.

IC-Registration No.: 7408B-1

The 10m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B-1.

NEMKO-Aut. No.: ELA503

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

VCCI

The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096.

Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-4563.

Telecommunication Ports Conducted Disturbance Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758

6.7 Deviation from Standards

None.

6.8 Abnormalities from Standard Conditions

None.

6.9 Other Information Requested by the Customer

None.

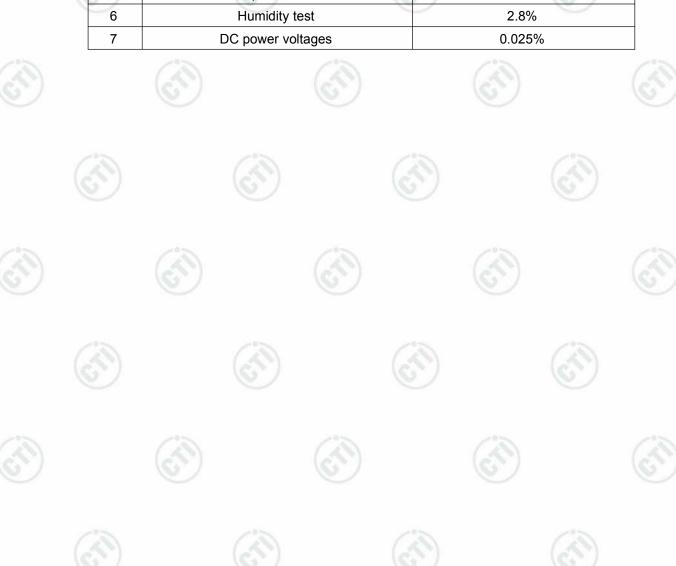




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6.10 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 7.9 x 10 ⁻⁸ |
| 2 | DE newer conducted | 0.31dB (30MHz-1GHz) |
| 2 | RF power, conducted | 0.57dB (1GHz-18GHz) |
| 2 | Dadiated Courieus emission test | 4.5dB (30MHz-1GHz) |
| 3 | Radiated Spurious emission test | 4.8dB (1GHz-12.75GHz) |
| 4 | Conduction emission | 3.6dB (9kHz to 150kHz) |
| 4 | Conduction emission | 3.2dB (150kHz to 30MHz) |
| 5 | Temperature test | 0.64°C |
| 6 | Humidity test | 2.8% |
| 7 | DC power voltages | 0.025% |



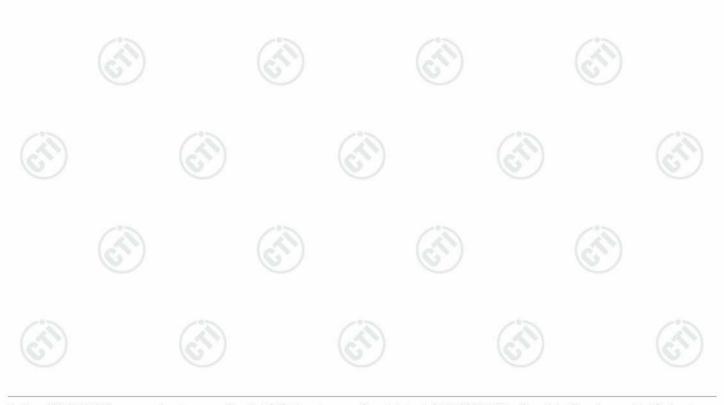


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7 Equipment List

| | | RF test | system | | |
|-------------------------------|-------------------|------------------------------|-------------|---------------------------|-------------------------------|
| Equipment | Manufacturer | Manufacturer Model No. | | Cal. Date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Signal Generator | Keysight | E8257D | MY53401106 | 03-14-2017 | 03-13-2018 |
| Spectrum Analyzer | Keysight | N9010A | MY54510339 | 03-14-2017 | 03-13-2018 |
| Signal Generator | Keysight | N5182B | MY53051549 | 03-14-2017 | 03-13-2018 |
| High-pass filter | Sinoscite | FL3CX03WG18 NM12-0398-002 | TTF20120439 | 01-11-2017 | 01-10-2018 |
| High-pass filter | MICRO- TRONICS | SPA-F-63029-4 | 003 | 01-11-2017 | 01-10-2018 |
| DC Power | Keysight | E3642A | MY54436035 | 03-14-2017 | 03-13-2018 |
| BT&WI-FI Automatic control | R&S | OSP120 | 101374 | 03-14-2017 | 03-13-2018 |
| RF control unit | JS Tonscend | JS0806-2 | 158060006 | 03-14-2017 | 03-13-2018 |

| Conducted disturbance Test | | | | | | | | | |
|------------------------------------|--------------|-----------|------------------|---------------------------|----------------------------|--|--|--|--|
| Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) | | | | |
| Receiver | R&S | ESCI | 100009 | 06-16-2016 | 06-15-2017 | | | | |
| Temperature/ Humidity Indicator | TAYLOR | 1451 | 1905 | 04-27-2016 | 04-26-2017 | | | | |
| LISN | R&S | ENV216 | 100098 | 06-16-2016 | 06-15-2017 | | | | |
| LISN | schwarzbeck | NNLK8121 | 8121-529 | 06-16-2016 | 06-15-2017 | | | | |
| Current Probe | R&S | EZ17 | 100106 | 06-16-2016 | 06-15-2017 | | | | |
| ISN | TESEQ GmbH | ISN T800 | 30297 | 01-27-2017 | 01-25-2018 | | | | |



 $Hot line; 400-6788-333 \\ www.cti-cert.com \\ E-mail: info@cti-cert.com \\ Complaint call: 0755-33681700 \\ Complaint E-mail: complaint@cti-cert.com \\ Complaint call: 0755-33681700 \\ Complaint E-mail: complaint Call: 0755-33681700 \\ Call: 0$



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| | 3M : | Semi/full-anech | oic Chamber | | |
|-------------------------------------|-------------------|------------------------------|------------------|---------------------------|-------------------------------|
| Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| 3M Chamber & Accessory Equipment | TDK | SAC-3 | TTE20130797 | 06-05-2016 | 06-05-2019 |
| TRILOG Broadband Antenna | SCHWARZBEC K | VULB9163 | 9163-484 | 05-23-2016 | 05-22-2017 |
| Microwave Preamplifier | Agilent | 8449B | 3008A02425 | 02-16-2017 | 02-15-2018 |
| Horn Antenna | ETS-LINDGREN | 3117 | 00057407 | 07-20-2015 | 07-18-2018 |
| Loop Antenna | ETS | 6502 | 00071730 | 07-30-2015 | 07-28-2017 |
| Microwave Preamplifier | A.H.SYSTEMS | PAP-1840-60 | 6041.6042 | 06-30-2015 | 06-28-2018 |
| Horn Antenna | A.H.SYSTEMS | SAS-574 374 | 374 | 06-30-2015 | 06-28-2018 |
| Spectrum Analyzer | R&S | FSP40 | 100416 | 06-16-2016 | 06-15-2017 |
| Receiver | R&S | ESCI | 100435 | 06-16-2016 | 06-15-2017 |
| LISN | schwarzbeck | NNBM8125 | 81251547 | 06-16-2016 | 06-15-2017 |
| LISN | schwarzbeck | NNBM8125 | 81251548 | 06-16-2016 | 06-15-2017 |
| Signal Generator | Agilent | E4438C | MY45095744 | 03-14-2017 | 03-13-2018 |
| Signal Generator | Keysight | E8257D | MY53401106 | 03-14-2017 | 03-13-2018 |
| Temperature/ Humidity Indicator | TAYLOR | 1451 | 1905 | 04-27-2016 | 04-26-2017 |
| Cable line | Fulai(7M) | SF106 | 5219/6A | 01-11-2017 | 01-10-2018 |
| Cable line | Fulai(6M) | SF106 | 5220/6A | 01-11-2017 | 01-10-2018 |
| Cable line | Fulai(3M) | SF106 | 5216/6A | 01-11-2017 | 01-10-2018 |
| Cable line | Fulai(3M) | SF106 | 5217/6A | 01-11-2017 | 01-10-2018 |
| High-pass filter | Sinoscite | FL3CX03WG18 NM12-0398-002 | TTF20120439 | 01-11-2017 | 01-10-2018 |
| High-pass filter | MICRO- TRONICS | SPA-F-63029-4 | 003 | 01-11-2017 | 01-10-2018 |
| band rejection filter | Sinoscite | FL5CX01CA09 CL12-0395-001 | TTF20120434 | 01-11-2017 | 01-10-2018 |
| band rejection filter | Sinoscite | FL5CX01CA08 CL12-0393-001 | TTF20120435 | 01-11-2017 | 01-10-2018 |
| band rejection filter | Sinoscite | FL5CX02CA04 CL12-0396-002 | TTF20120436 | 01-11-2017 | 01-10-2018 |
| band rejection filter | Sinoscite | FL5CX02CA03 CL12-0394-001 | TTF20120437 | 01-11-2017 | 01-10-2018 |























8 Radio Technical Requirements Specification

Reference documents for testing:

| No. | Identity | Document Title |
|-----|--------------------|---|
| 1 | FCC Part15C (2015) | Subpart C-Intentional Radiators |
| 2 | ANSI C63.10-2013 | American National Standard for Testing Unlicesed Wireless Devices |

Test Results List:

| Test method | Test item | Verdict | Note |
|-------------|--|--|--|
| ANSI 63.10 | 20dB Occupied Bandwidth | PASS | Appendix A) |
| ANSI 63.10 | Carrier Frequencies Separation | PASS | Appendix B) |
| ANSI 63.10 | Dwell Time | PASS | Appendix C) |
| ANSI 63.10 | Hopping Channel Number | PASS | Appendix D) |
| ANSI 63.10 | Conducted Peak Output Power | PASS | Appendix E) |
| ANSI 63.10 | Band-edge for RF Conducted Emissions | PASS | Appendix F) |
| ANSI 63.10 | RF Conducted Spurious Emissions | PASS | Appendix G) |
| ANSI 63.10 | Pseudorandom Frequency Hopping Sequence | PASS | Appendix H) |
| ANSI 63.10 | Antenna Requirement | PASS | Appendix I) |
| ANSI 63.10 | AC Power Line Conducted Emission | PASS | Appendix J) |
| ANSI 63.10 | Restricted bands around fundamental frequency (Radiated) Emission) | PASS | Appendix K) |
| ANSI 63.10 | Radiated Spurious Emissions | PASS | Appendix L) |
| | ANSI 63.10 ANSI 63.10 | ANSI 63.10 ANSI 63.10 Carrier Frequencies Separation ANSI 63.10 Dwell Time ANSI 63.10 Hopping Channel Number ANSI 63.10 Conducted Peak Output Power ANSI 63.10 Band-edge for RF Conducted Emissions ANSI 63.10 RF Conducted Spurious Emissions Pseudorandom Frequency Hopping Sequence ANSI 63.10 ANSI 63.10 ANSI 63.10 ANSI 63.10 Restricted bands around fundamental frequency (Radiated) Emission) Radiated Spurious | ANSI 63.10 ANSI 63.10 Carrier Frequencies Separation ANSI 63.10 Dwell Time PASS ANSI 63.10 Hopping Channel Number PASS ANSI 63.10 Conducted Peak Output Power ANSI 63.10 Band-edge for RF Conducted Emissions ANSI 63.10 RF Conducted Spurious Emissions ANSI 63.10 ANSI 63.10 ANSI 63.10 ANSI 63.10 Antenna Requirement ANSI 63.10 ANSI 63.10 Restricted bands around fundamental frequency (Radiated) Emission) RASS ANSI 63.10 Radiated Spurious PASS |













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Appendix A): 20dB Occupied Bandwidth

Test Result

| Mode | Channel. | 20dB Bandwidth [MHz] | 99% OBW [MHz] | Verdict | Remark |
|---------------|----------|-------------------------|---------------|---------|----------|
| GFSK | LCH | 0.9748 | 0.90447 | PASS | 0 |
| GFSK | MCH | 0.9873 | 0.91310 | PASS | |
| GFSK | HCH | 0.9874 | 0.91547 | PASS | |
| π /4DQPSK | LCH | 1.279 | 1.1764 | PASS | |
| π /4DQPSK | MCH | 1.289 | 1.1867 | PASS | Peak |
| π /4DQPSK | HCH | 1.291 | 1.2116 | PASS | detector |
| 8DPSK | LCH | 1.280 | 1.1720 | PASS | |
| 8DPSK | MCH | 1.290 | 1.1808 | PASS | (84) |
| 8DPSK | НСН | 1.302 | 1.2071 | PASS | |





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Test Graph









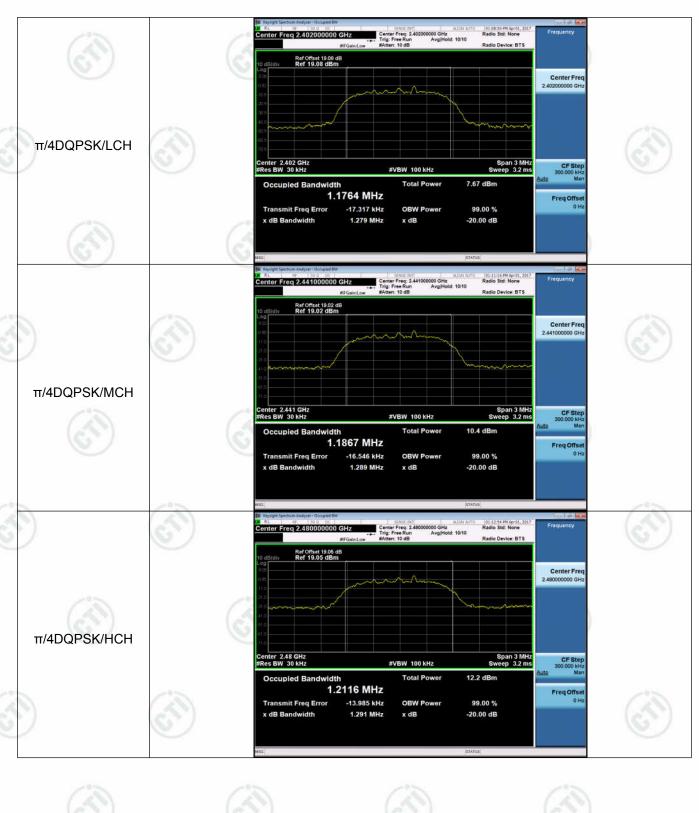
















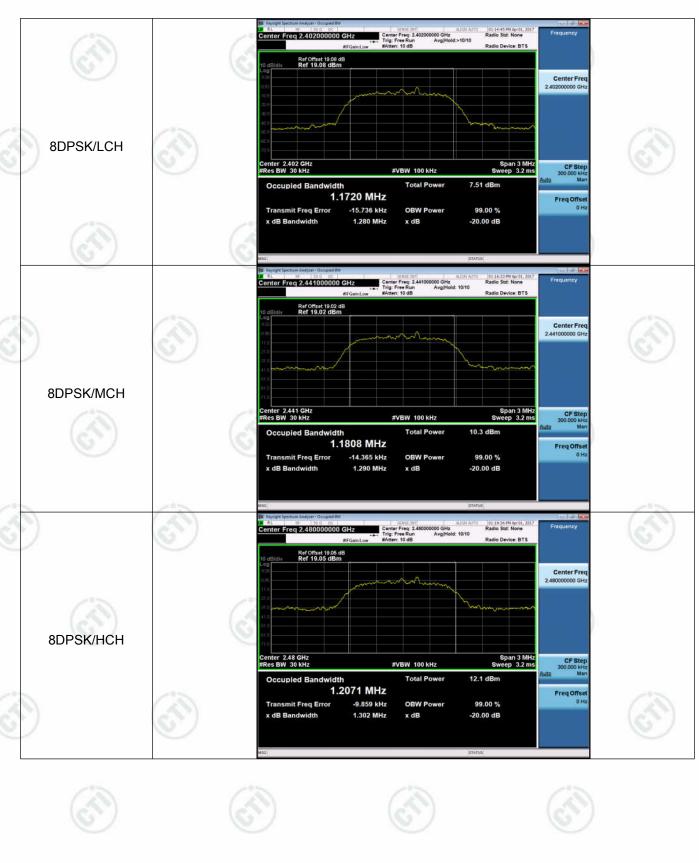












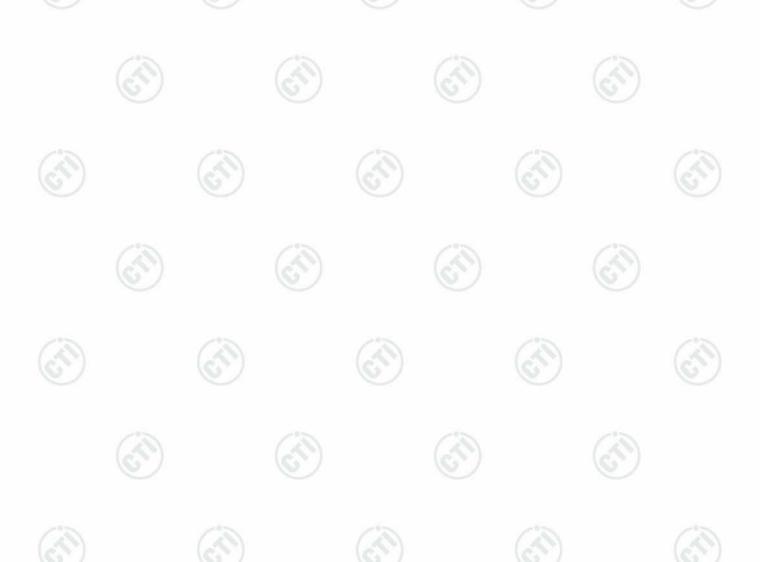


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Appendix B): Carrier Frequency Separation

Result Table

| Mode | Channel. | Carrier Frequency Separation [MHz] | Verdict |
|----------|----------|------------------------------------|---------|
| GFSK | LCH | 1.084 | PASS |
| GFSK | MCH | 0.916 | PASS |
| GFSK | HCH | 0.926 | PASS |
| π/4DQPSK | LCH | 0.932 | PASS |
| π/4DQPSK | MCH | 0.968 | PASS |
| π/4DQPSK | HCH | 1.006 | PASS |
| 8DPSK | LCH | 1.176 | PASS |
| 8DPSK | MCH | 1.010 | PASS |
| 8DPSK | НСН | 1.158 | PASS |





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Test Graph





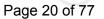


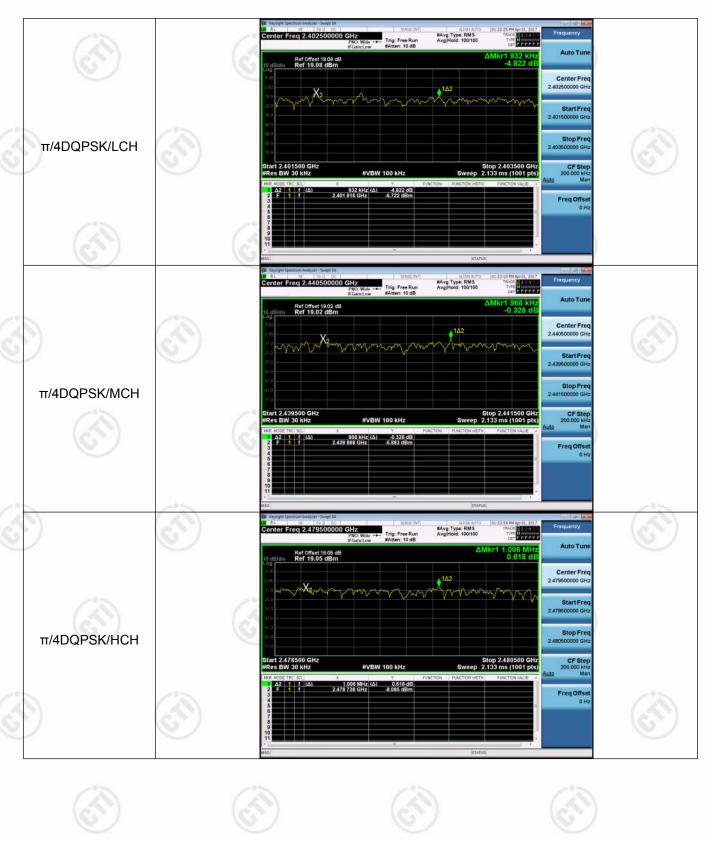






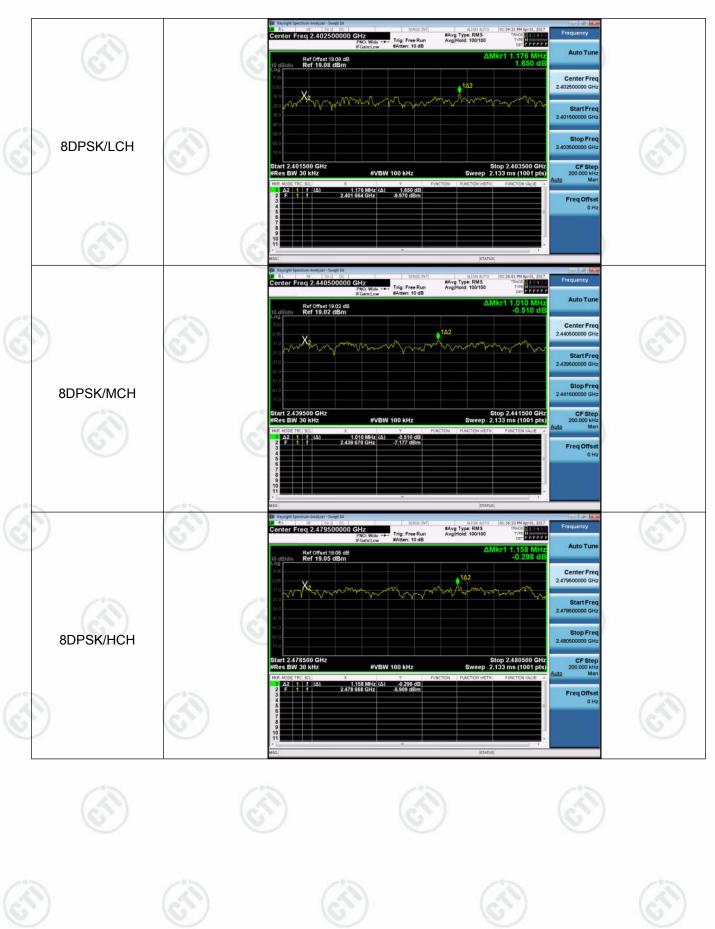












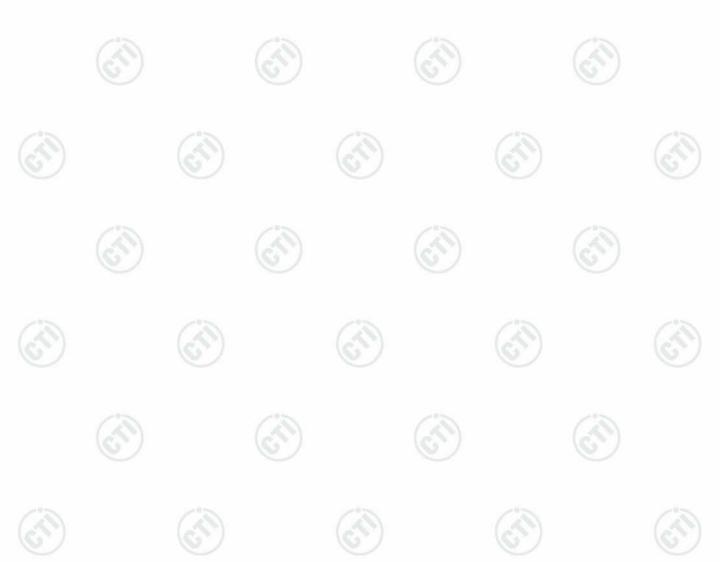


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Appendix C): Dwell Time

Result Table

| Mode | Packet | Chann el | Burst Width [ms/hop/ch] | Total Hops[hop*ch] | Dwell Time[s] | Duty Cycle [%] | Verdict |
|------|--------|-------------|----------------------------|-----------------------|---------------|-------------------|---------|
| GFSK | DH1 | LCH | 0.3635333 | 320 | 0.116 | 0.64 | PASS |
| GFSK | DH1 | MCH | 0.363534 | 320 | 0.116 | 0.64 | PASS |
| GFSK | DH1 | нсн | 0.363533 | 320 | 0.116 | 0.64 | PASS |
| GFSK | DH3 | LCH | 1.62006 | 160 | 0.259 | 0.89 | PASS |
| GFSK | DH3 | MCH | 1.62007 | 160 | 0.259 | 0.89 | PASS |
| GFSK | DH3 | нсн | 1.620063 | 160 | 0.259 | 0.89 | PASS |
| GFSK | DH5 | LCH | 2.86774 | 106.7 | 0.306 | 0.93 | PASS |
| GFSK | DH5 | МСН | 2.867733 | 106.7 | 0.306 | 0.93 | PASS |
| GFSK | DH5 | нсн | 2.86773 | 106.7 | 0.306 | 0.93 | PASS |





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Test Graph







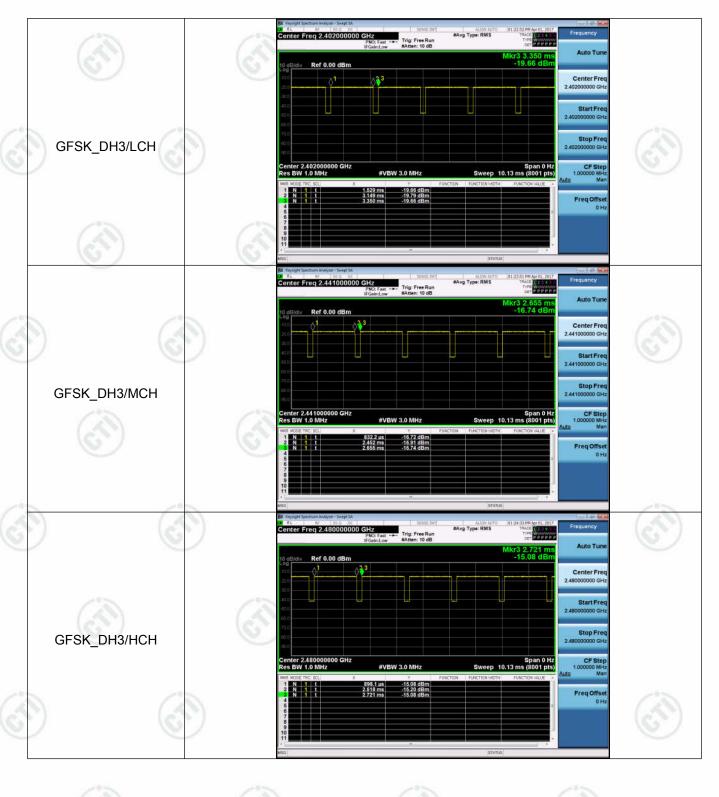
































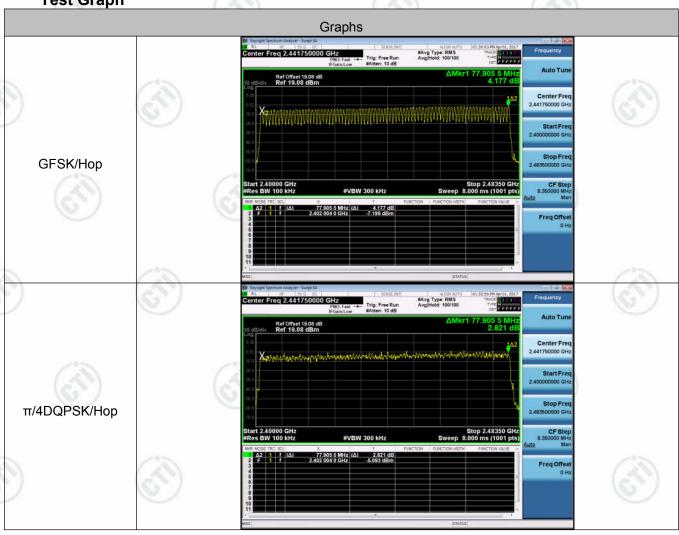
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Appendix D): Hopping Channel Number

Result Table

| Mode | Channel. | Number of Hopping Channel | Verdict |
|----------|----------|---------------------------|---------|
| GFSK | Нор | 79 | PASS |
| π/4DQPSK | Нор | 79 | PASS |
| 8DPSK | Нор | 79 | PASS |

Test Graph







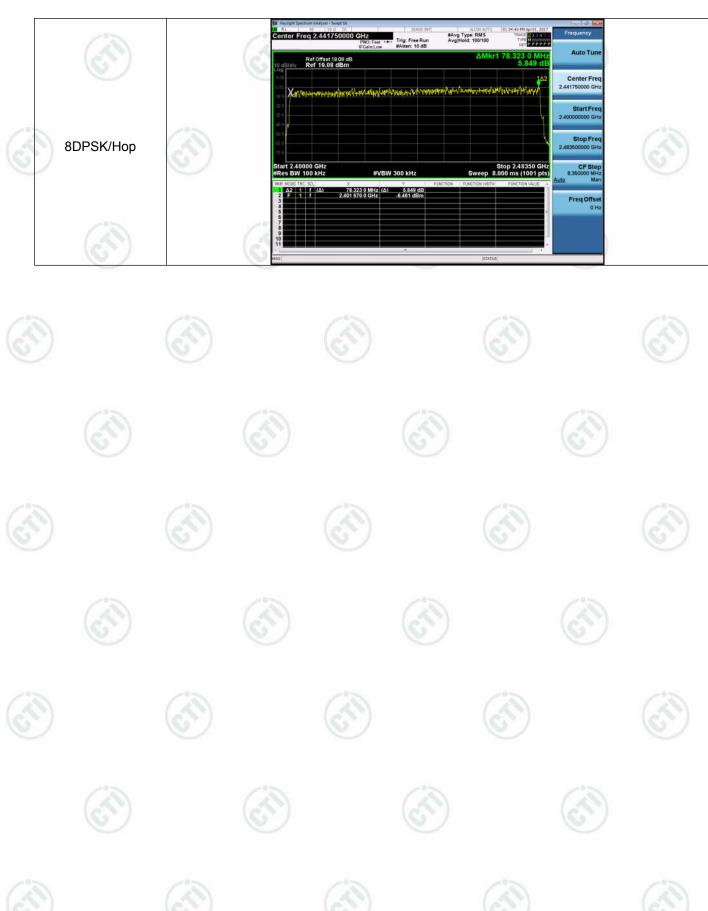














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Appendix E): Conducted Peak Output Power

Result Table

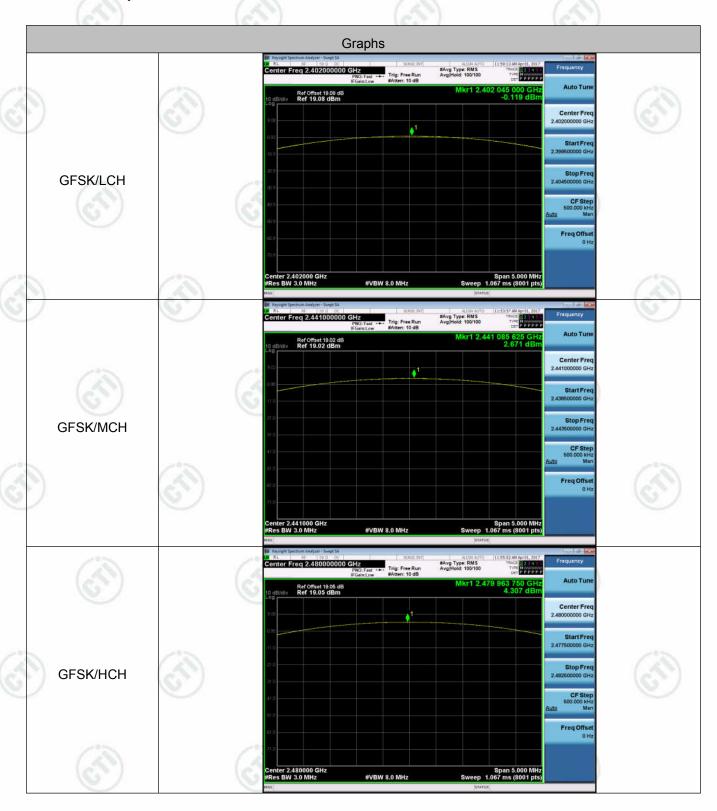
| Mode | Channel. | Maximum Peak Output Power [dBm] | Verdict |
|----------|----------|---------------------------------|---------|
| GFSK | LCH | -0.119 | PASS |
| GFSK | MCH | 2.671 | PASS |
| GFSK | HCH | 4.307 | PASS |
| π/4DQPSK | LCH | 1.264 | PASS |
| π/4DQPSK | MCH | 3.813 | PASS |
| π/4DQPSK | HCH | 5.084 | PASS |
| 8DPSK | LCH | 1.622 | PASS |
| 8DPSK | MCH | 4.096 | PASS |
| 8DPSK | HCH | 5.301 | PASS |





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Test Graph





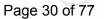
















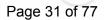


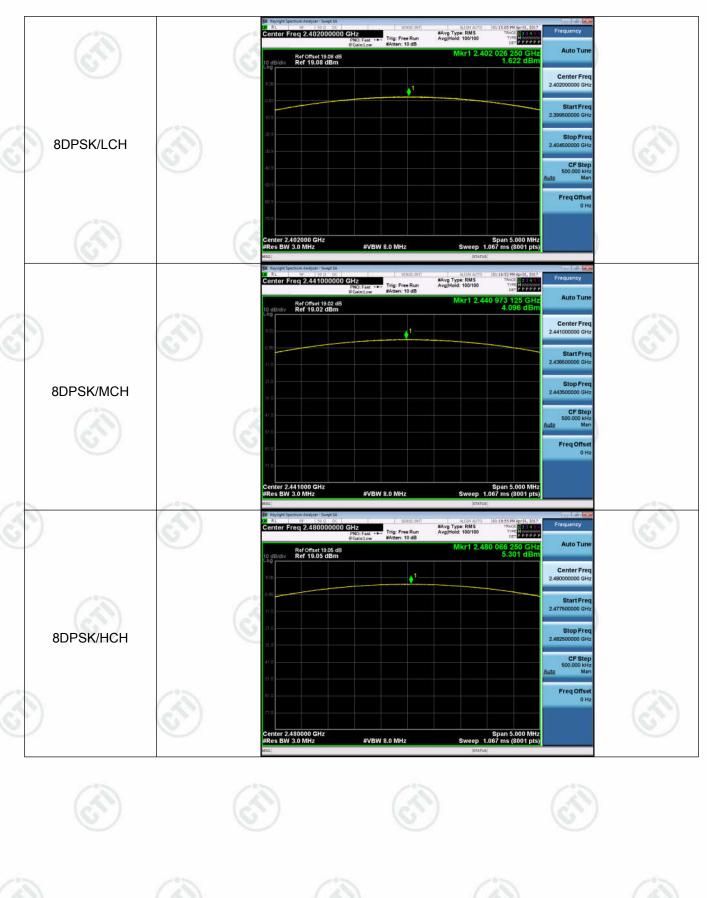












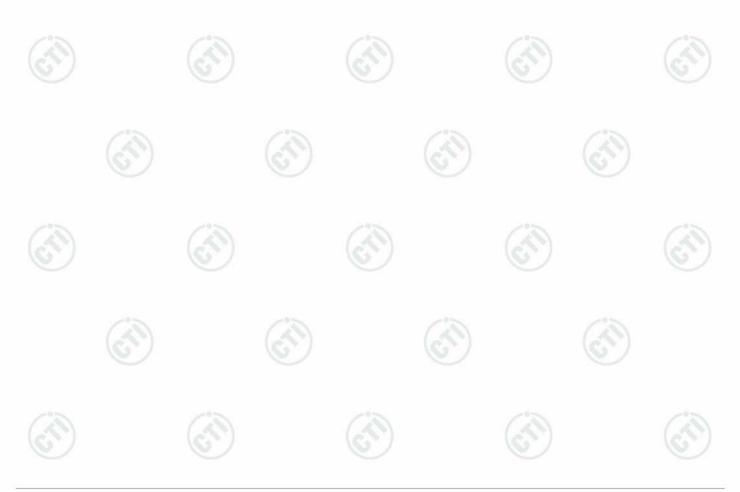


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Appendix F): Band-edge for RF Conducted Emissions

Result Table

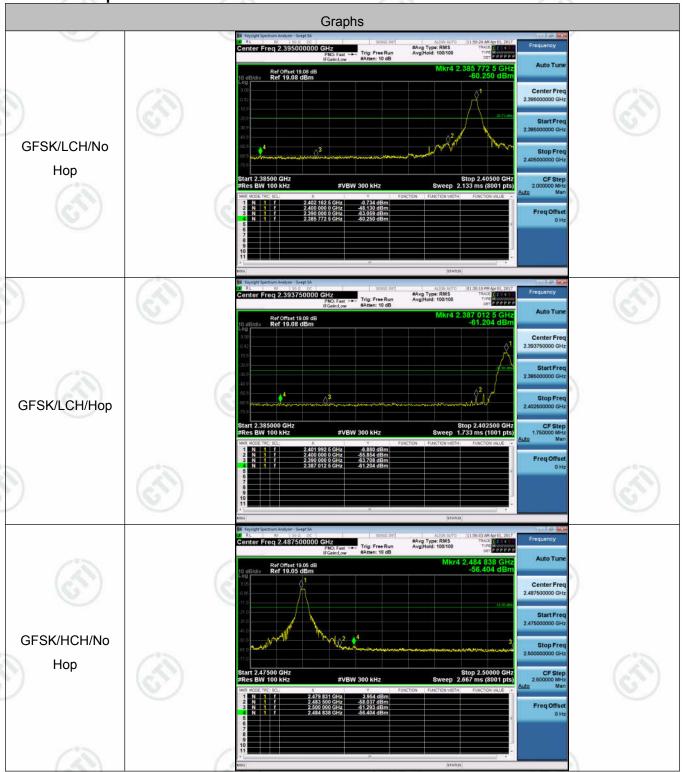
| Mode | Channel | Carrier Frequency [MHz] | Carrier Power [dBm] | Frequency Hopping | Max Spurious Level [dBm] | Limit [dBm] | Verdict |
|-----------|----------|-------------------------------|---------------------------|----------------------|-----------------------------------|----------------|---------|
| 05014 | 1.011 | 0.400 | -0.734 | Off | -60.250 | -20.73 | PASS |
| GFSK | LCH | 2402 | -6.880 | On | -61.204 | -26.88 | PASS |
| 0.50 | | | 3.954 | Off | -56.404 | -16.05 | PASS |
| GFSK | HCH | 2480 | -3.369 | On | -60.447 | -23.37 | PASS |
| 445.0504 | | 2402 | -0.599 | Off | -60.942 | -20.6 | PASS |
| π/4DQPSK | LCH | | -6.476 | On | -60.860 | -26.48 | PASS |
| AND ODDOL | | 0.400 | 3.931 | Off | -54.700 | -16.07 | PASS |
| π/4DQPSK | HCH 2480 | 2480 | -2.932 | On | -59.808 | -22.93 | PASS |
| | | | -0.696 | Off | -60.426 | -20.7 | PASS |
| 8DPSK | LCH | 2402 | -6.299 | On | -61.364 | -26.3 | PASS |
| | | (35) | 3.968 | Off | -55.987 | -16.03 | PASS |
| 8DPSK | HCH | 2480 | -2.702 | On | -58.965 | -22.7 | PASS |





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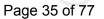
















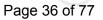


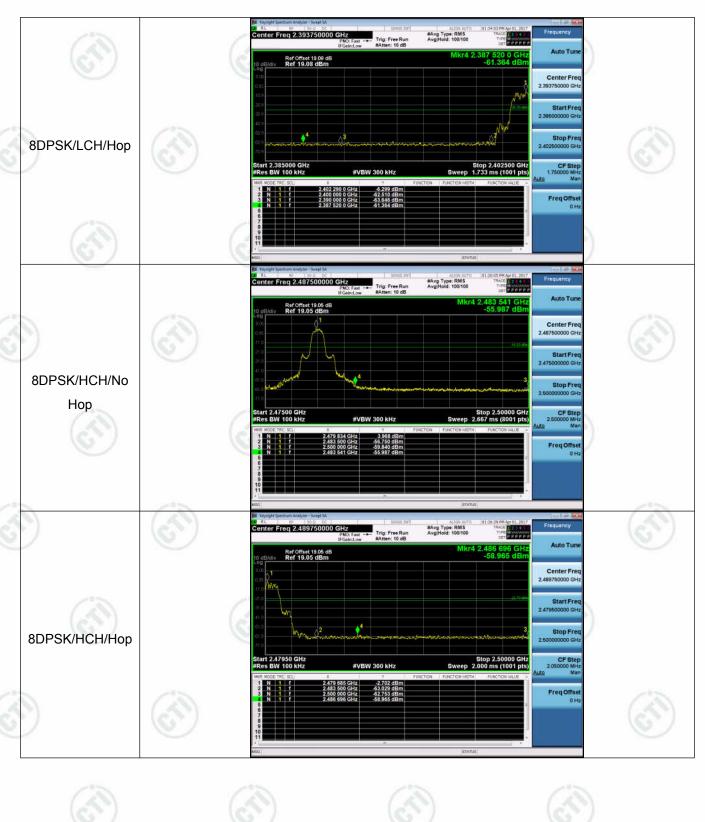
















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Appendix G): RF Conducted Spurious Emissions

Result Table

| Mode | Channel | Pref [dBm] | Puw[dBm] | Verdict |
|----------|---------|------------|--------------------------------------|---------|
| GFSK | LCH | -0.762 | <limit< td=""><td>PASS</td></limit<> | PASS |
| GFSK | MCH | 2.073 | <limit< td=""><td>PASS</td></limit<> | PASS |
| GFSK | HCH | 3.802 | <limit< td=""><td>PASS</td></limit<> | PASS |
| π/4DQPSK | LCH | -2.31 | <limit< td=""><td>PASS</td></limit<> | PASS |
| π/4DQPSK | MCH | 2.158 | <limit< td=""><td>PASS</td></limit<> | PASS |
| π/4DQPSK | нсн | 3.941 | <limit< td=""><td>PASS</td></limit<> | PASS |
| 8DPSK | LCH | -0.734 | <limit< td=""><td>PASS</td></limit<> | PASS |
| 8DPSK | MCH | 2.113 | <limit< td=""><td>PASS</td></limit<> | PASS |
| 8DPSK | HCH | 3.891 | <limit< td=""><td>PASS</td></limit<> | PASS |

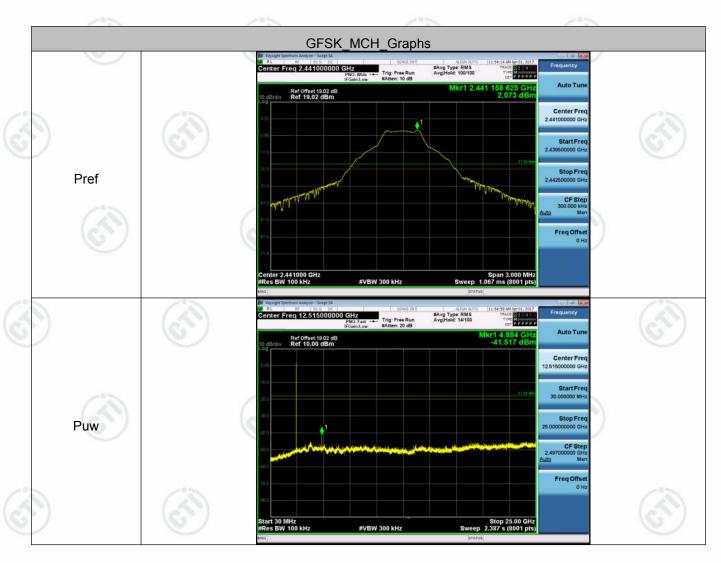
Test Graph

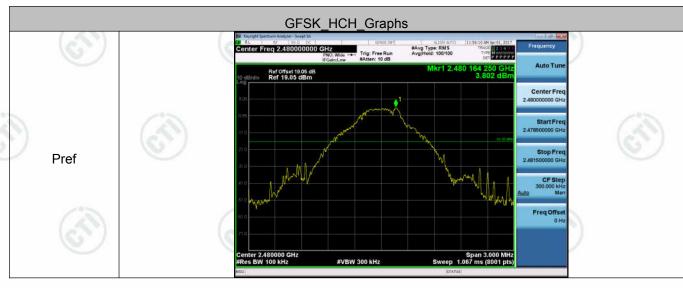
















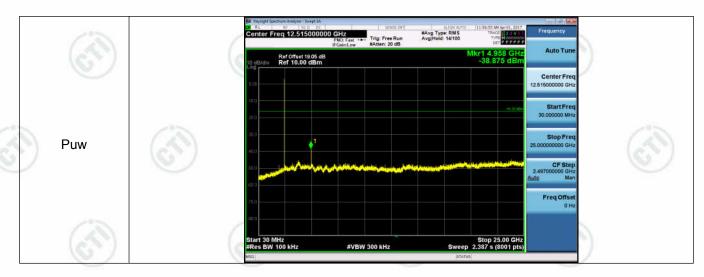




















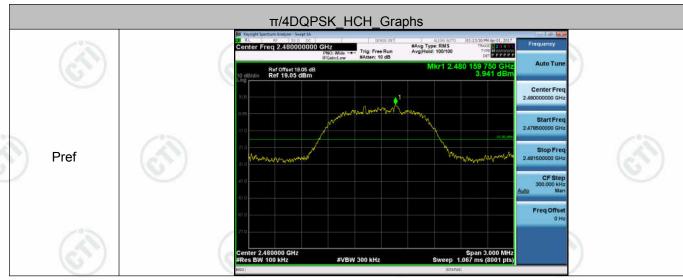














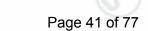


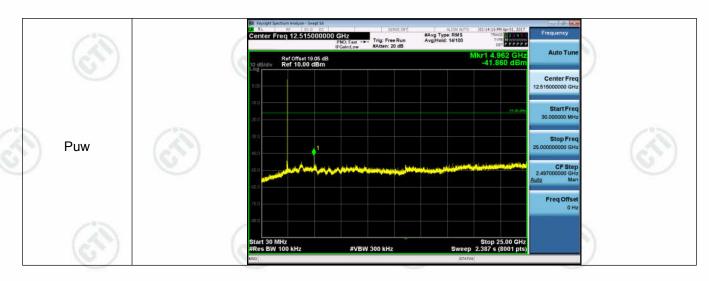






















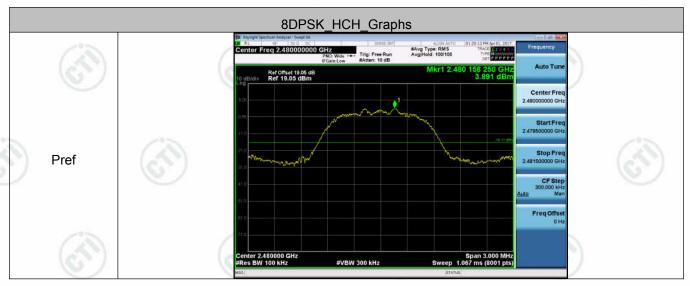




















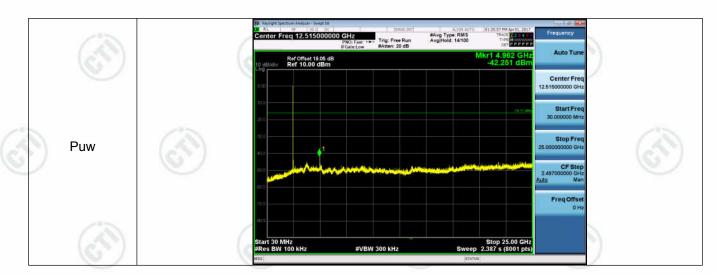
















































































Appendix H): Pseudorandom Frequency Hopping Sequence

Test Requirement:

47 CFR Part 15C Section 15.247 (a)(1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. 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 System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule.

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

EUT Pseudorandom Frequency Hopping Sequence

Pseudorandom Frequency Hopping Sequence Table as below:

Channel: 01, 33, 41, 65, 09, 33, 41,40, 56, 72, 09,78, 73, 22, 04, 20, 11, 05, 13, 37, 45,36, 52, 38, 46, 70, 08 24, 40, 56, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 53, 69, 06, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40 48,72, 01, 72, 01, 76, 13, 37, 25, 33, 03, 11, 35, 43, 12, 28, 44, 60, 42, 58, 74 etc.

The device does not have the ability to be coordinated with other FHSS systems in an effort to avoid

the simultaneous occupancy of individual hopping frequencies by multiple transmitters.





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Appendix I): Antenna Requirement

15.203 requirement:

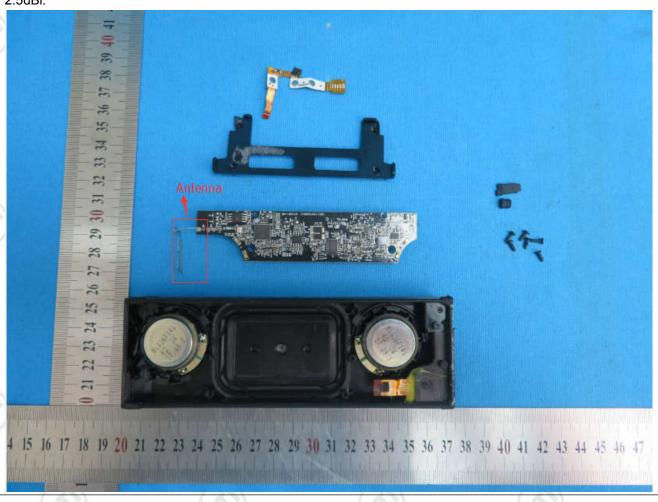
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

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 Monopole Antenna and no consideration of replacement. The best case gain of the antenna is 2.5dBi.







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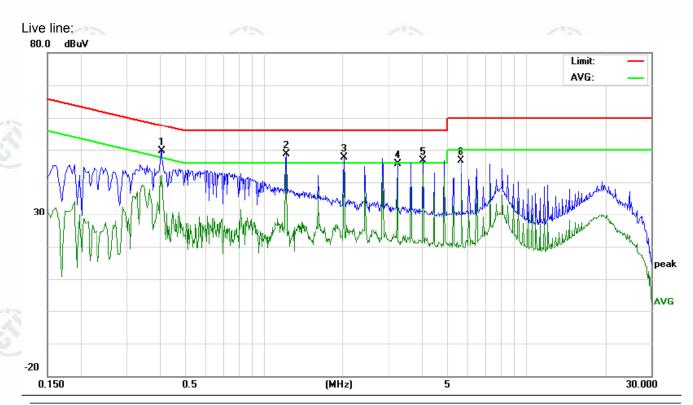
Appendix J): AC Power Line Conducted Emission

| | | frequency range :150KH | | | |
|-------------------------------------|----------------------------------|---|--|--|--|
| | 2) Th S po w fc m | e mains terminal disturbate EUT was connected to tabilization Network) whower cables of all other hich was bonded to the or the unit being measuralliple power cables to a | o AC power source throich provides a 50Ω/50 units of the EUT were ground reference planed at Market A multiple socket of | ough a LISN 1 (Line $_{0}$ H + 5Ω linear important connected to a section the same way a putlet strip was use | e Impedance edance. The cond LISN 2, s the LISN 1 d to connect |
| | 3)Tho re ho 4) Th | exceeded. The tabletop EUT was play Eference plane. And for the Eference plane and reference Eference plane are test was performed was performed to the control of the | floor-standing arrangem ce plane, vith a vertical ground r | ent, the EUT was peference plane. The | laced on the |
| | re 1 g pl A | eference plane was bond was placed 0.8 m from round reference plane ane. This distance was Il other units of the EUT ISN 2. | ded to the horizontal ground the boundary of the upper for LISNs mounted operations to between the closest possible. | ound reference plar unit under test and n top of the grour pints of the LISN 1 a | ie. The LISN bonded to a reference and the EUT. |
| | of | order to find the maximu f the interface cables mu onducted measurement. | | | |
| imit: | | | | | |
| | | | Limit (c | dBµV) | |
| | Fr | requency range (MHz) | Quasi-peak | Average | |
| | (30) | 0.15-0.5 | 66 to 56* | 56 to 46* | (3) |
| | | 0.5-5 | 56 | 46 | (6,7) |
| | | 0.00 | | | |
| | | 5-30 | 60 | 50 | |
| | M | 5-30 e limit decreases linearly Hz to 0.50 MHz. | 24% | 24% | e range 0.15 |
| | M | e limit decreases linearly | with the logarithm of | the frequency in the | e range 0.15 |
| initial pre-scan asi-Peak and A | NOT a was performe | e limit decreases linearly IHz to 0.50 MHz. | with the logarithm of plicable at the transition | the frequency in the frequency or. | |
| initial pre-scan lasi-Peak and A | NOT a was performe | e limit decreases linearly IHz to 0.50 MHz. E : The lower limit is app ed on the live and neutra | with the logarithm of plicable at the transition | the frequency in the frequency or. | |
| | NOT a was performe | e limit decreases linearly IHz to 0.50 MHz. E : The lower limit is app ed on the live and neutra | with the logarithm of plicable at the transition | the frequency in the frequency or. | |

 $Hot line: 400-6788-333 \\ www.cti-cert.com \\ E-mail: info@cti-cert.com \\ Complaint call: 0755-33681700 \\ Complaint E-mail: complaint@cti-cert.com \\ Complaint call: 0755-33681700 \\ Complaint E-mail: complaint Call: 0755-33681700 \\ Call: 0$



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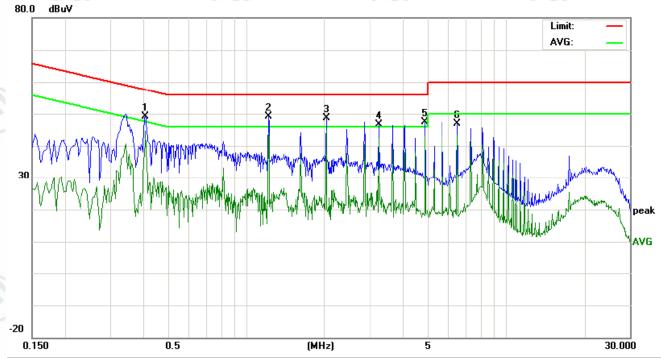
| No | Freq. | | ding_Le | vel | Correct | M | leasuren | | Lin (dB) | | | rgin | | |
|------|--------|-------|---------|-------|---------|-------|----------|-------|-------------|-------|--------|--------|-----|---------|
| 140. | r req. | (| dBuV) | | Factor | | (dBu∀) | | (dB | uv) | ((| dB) | | |
| | MHz | Peak | QP | AVG | dB | peak | QP | AVG | QP | AVG | QP | AVG | P/F | Comment |
| 1 | 0.4100 | 37.34 | 36.70 | 31.29 | 9.75 | 47.09 | 46.45 | 41.04 | 57.65 | 47.65 | -11.20 | -6.61 | Р | |
| 2 | 1.2250 | 37.34 | 37.33 | 31.56 | 9.64 | 46.98 | 46.97 | 41.20 | 56.00 | 46.00 | -9.03 | -4.80 | Р | |
| 3 | 2.0369 | 37.83 | 37.34 | 31.38 | 9.72 | 47.55 | 47.06 | 41.10 | 56.00 | 46.00 | -8.94 | -4.90 | Р | |
| 4 | 3.2590 | 35.99 | 35.17 | 29.76 | 9.68 | 45.67 | 44.85 | 39.44 | 56.00 | 46.00 | -11.15 | -6.56 | Р | |
| 5 | 4.0739 | 36.98 | 35.89 | 30.25 | 9.65 | 46.63 | 45.54 | 39.90 | 56.00 | 46.00 | -10.46 | -6.10 | Р | |
| 6 | 5.7030 | 36.96 | 35.48 | 29.66 | 9.66 | 46.62 | 45.14 | 39.32 | 60.00 | 50.00 | -14.86 | -10.68 | Р | |





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Neutral line:



| - | | _ | | ding_Le | vel | Correct | M | leasuren | | Lin | | | rgin | | |
|---|-----|--------|-------|---------|-------|---------|-------|----------|-------|-------|-------|--------|--------|-----|---------|
| | No. | Freq. | (| dBuV) | | Factor | | (dBu∀) | | (dB | uV) | (0 | iB) | | |
| | | MHz | Peak | QP | AVG | dB | peak | QP | AVG | QP | AVG | QP | AVG | P/F | Comment |
| | 1 | 0.4100 | 39.32 | 36.72 | 30.79 | 9.75 | 49.07 | 46.47 | 40.54 | 57.65 | 47.65 | -11.18 | -7.11 | Р | |
| | 2 | 1.2220 | 39.42 | 38.70 | 32.99 | 9.64 | 49.06 | 48.34 | 42.63 | 56.00 | 46.00 | -7.66 | -3.37 | Р | |
| | 3 | 2.0380 | 38.82 | 37.69 | 31.85 | 9.72 | 48.54 | 47.41 | 41.57 | 56.00 | 46.00 | -8.59 | -4.43 | Р | |
| ř | 4 | 3.2580 | 37.05 | 35.37 | 30.14 | 9.68 | 46.73 | 45.05 | 39.82 | 56.00 | 46.00 | -10.95 | -6.18 | Р | |
| | 5 | 4.8859 | 37.80 | 35.59 | 30.47 | 9.62 | 47.42 | 45.21 | 40.09 | 56.00 | 46.00 | -10.79 | -5.91 | Р | |
| | 6 | 6.5180 | 37.06 | 34.62 | 28.45 | 9.70 | 46.76 | 44.32 | 38.15 | 60.00 | 50.00 | -15.68 | -11.85 | Р | |

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.





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Appendix K): Restricted bands around fundamental frequency (Radiated)

| Receiver Setup: | | Frequency | Detector | RBW | VBW | Remark | |
|-----------------|---|--|--|--|---|--|--------------------|
| | | 30MHz-1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak | 1 |
| | - | Albania 4011 | Peak | 1MHz | 3MHz | Peak | 10 |
| | (6,5) | Above 1GHz | Peak | 1MHz | 10Hz | Average | ć |
| Test Procedure: | Belo | w 1GHz test proced | lure as below: | | | | |
| | 6 b. T v c. T | The EUT was placed at a 3 meter semi-and letermine the position The EUT was set 3 meters are mounted on the The antenna height is letermine the maximulations of the all | echoic camber. The nof the highest range of a variable-to varied from one to ware to the file. | he table wa adiation. the interfer neight anter meter to for eld strengtl | ence-receinna tower. bur meters n. Both hor | one of the second secon | wh un |
| | d. F tl e. T E f. F | For each suspected of the antenna was tune able was turned from The test-receiver system and width with Maxim Place a marker at the requency to show contained. Save the special speci | emission, the EUT ed to heights from n 0 degrees to 36 tem was set to Pe num Hold Mode. e end of the restric empliance. Also m ctrum analyzer plo | was arran I meter to O degrees to ak Detect cted band co easure any | ged to its v 4 meters a to find the in Function a closest to the demissions | worst case and and the rotatal maximum read and Specified he transmit in the restrict | ble ding ted |
| | | | | | | | |
| | | or lowest and highes /e 1GHz test proce | | | | | |
| | Abov g. E te n h. b i. T | re 1GHz test proced Different between about 19 fully Anechoic Channeter (Above 18GHz b). Test the EUT in the radiation measurer ransmitting mode, a Repeat above proced | dure as below: ove is the test site mber and change the distance is 1 e lowest channel ements are perfo nd found the X ax | e form table meter and , the Highe rmed in X, kis position | 0.8 meter table is 1.5 st channel Y, Z axis p ing which i | to 1.5 meter). positioning for t is worse case | |
| Limit: | Abov g. E te n h. b i. T | ve 1GHz test proced Different between about fully Anechoic Chaneter (Above 18GHz b. Test the EUT in the The radiation measur Transmitting mode, a | dure as below: ove is the test site mber and change the distance is 1 e lowest channel ements are perfo nd found the X ax | e form table meter and , the Highe rmed in X, kis position uencies me | e 0.8 meter table is 1.5 st channel Y, Z axis p ing which i | to 1.5 meter). positioning for t is worse case | |
| Limit: | Abov g. E te n h. b i. T | ve 1GHz test proced Different between about fully Anechoic Chaneter (Above 18GHz). Test the EUT in the The radiation measure ransmitting mode, a Repeat above proced | dure as below: ove is the test site mber and change the distance is 1 e lowest channel ements are perfo nd found the X as lures until all freq | e form table meter and , the Highermed in X, kis position uencies me /m @3m) | table is 1.5 st channel Y, Z axis ping which is assured wa | to 1.5 meter). positioning for t is worse case as complete. | |
| Limit: | Abov g. E te n h. b i. T | Different between about of fully Anechoic Chaneter (Above 18GHz). Test the EUT in the radiation measurement and the radiation mode, a Repeat above procedure. | dure as below: ove is the test site mber and change the distance is 1 e lowest channel rements are perfo nd found the X ax lures until all freq Limit (dBµV | e form table meter and , the Highe rmed in X, kis position uencies me /m @3m) | e 0.8 meter table is 1.5 st channel Y, Z axis p ing which i easured wa | to 1.5 meter). positioning for t is worse case as complete. | |
| Limit: | Abov g. E te n h. b i. T | ve 1GHz test procedo Different between about fully Anechoic Chaneter (Above 18GHz D. Test the EUT in the The radiation measure Transmitting mode, and Repeat above procedo Frequency 30MHz-88MHz | dure as below: ove is the test site mber and change the distance is 1 e lowest channel ements are perfo nd found the X ax dures until all freq Limit (dBµV 40.6 | e form table meter and , the Highe rmed in X, kis positioni uencies me /m @3m) | table is 1.5 st channel Y, Z axis ping which i easured was Rei Quasi-pe | to 1.5 meter). positioning for t is worse case as complete. mark eak Value | |
| Limit: | Abov g. E te n h. b i. T | ve 1GHz test proced Different between about fully Anechoic Chaneter (Above 18GHz). Test the EUT in the radiation measure ransmitting mode, a Repeat above proced Frequency 30MHz-88MHz 88MHz-216MHz | dure as below: ove is the test site mber and change the distance is 1 e lowest channel rements are perfo nd found the X ax lures until all freq Limit (dBµV 40.6 | e form table meter and the Higher med in X, kis position uencies med/m @3m) | e 0.8 meter table is 1.5 st channel Y, Z axis pring which i easured wared ware Quasi-pe Quasi-pe Quasi-pe | to 1.5 meter). cositioning for t is worse case complete. mark eak Value eak Value | |

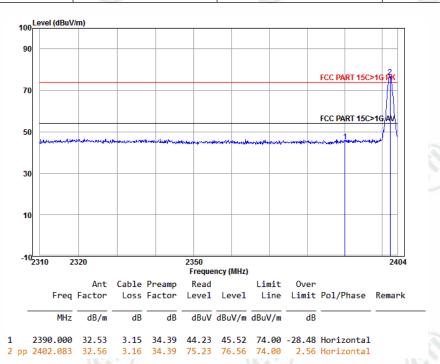




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Test plot as follows:

| Worse case mode: | GFSK(1-DH5) | | (20) | |
|----------------------|----------------------|--------------------------|--------------|--|
| Frequency: 2390.0MHz | Test channel: Lowest | Polarization: Horizontal | Remark: Peak | |



Worse case mode: GFSK(1-DH5)

Frequency: 2390.0MHz Test channel: Lowest Polarization: Vertical Remark: Peak

