

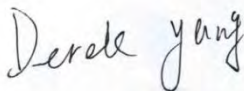
FCC TEST REPORT

Application No.: HR/2020/B0007
Applicant: Honor Device Co., Ltd.
Address of Applicant: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Manufacturer: Honor Device Co., Ltd.
Address of Manufacturer: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
EUT Description: Smart Phone
Model No.: CHL-LX1
Trade Mark: HONOR
FCC ID: 2AYGCCHL-LX1
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C
Date of Receipt: 2020/12/9
Date of Test: 2020/12/9 to 2020/12/31
Date of Issue: 2021/4/25

| | |
|----------------------|---------------|
| Test Result : | PASS * |
|----------------------|---------------|

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Derek Yang
Wireless Laboratory Manager

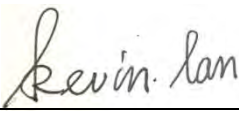



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1 Version

| Revision Record | | | | |
|-----------------|---------|------------|-----------|--|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2020-12-31 | | Original |
| 02 | | 2021-2-22 | Jim Huang | Comment Revised |
| 03 | | 2021-4-25 | Kevin.Lan | 1.Add test site Information 2.Modify data conversion error of antenna height 3.Update equipment list |

*This report supersedes our previous report HR/2020/B000702, issued on 2020-2-22, which is hereby deemed null and void.

| | | |
|---------------------------------|--|-------------------------------|
| Authorized for issue by: | | |
| Prepared By |  | (Kevin.Lan) /Engineer |
| Checked By |  | (David Chen) /Reviewer |



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2 Test Summary

| Test Item | Test Requirement | Test Method | Test Result | Result | Test Lab* |
|---|-----------------------------|--------------------|-------------|--------|-----------|
| AC Power Line Conducted Emission | 15.207 | ANSI C63.10 (2013) | Clause 4.3 | PASS | B |
| Conducted Peak Output Power | 15.247 (b)(1) | ANSI C63.10 (2013) | Clause 4.4 | PASS | A |
| 20dB Emission Bandwidth & 99% Occupied Bandwidth | 15.247 (a)(1) | ANSI C63.10 (2013) | Clause 4.5 | PASS | A |
| Carrier Frequencies Separation | 15.247 (a)(1) | ANSI C63.10 (2013) | Clause 4.6 | PASS | A |
| Hopping Channel Number | 15.247 (a)(1) | ANSI C63.10 (2013) | Clause 4.7 | PASS | A |
| Dwell Time | 15.247 (a)(1) | ANSI C63.10 (2013) | Clause 4.8 | PASS | A |
| Band-edge for RF Conducted Emissions | 15.247(d) | ANSI C63.10 (2013) | Clause 4.9 | PASS | A |
| RF Conducted Spurious Emissions | 15.247(d) | ANSI C63.10 (2013) | Clause 4.10 | PASS | A |
| Radiated Spurious emissions | 15.247(d); 15.205/15.209 | ANSI C63.10 (2013) | Clause 4.11 | PASS | B |
| Restricted bands around fundamental frequency (Radiated Emission) | 15.247(d); 15.205/15.209 | ANSI C63.10 (2013) | Clause 4.12 | PASS | B |

Remark : All test were performed by Lab A and B.

Parts of test items above were subcontracted to Lab B.

Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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3 General Information

3.1 Details of Client

| | |
|-------------------------|--|
| Applicant: | Honor Device Co., Ltd. |
| Address of Applicant | Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China |
| Manufacturer: | Honor Device Co., Ltd. |
| Address of Manufacturer | Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China |

3.2 Test Location

Lab A:

| | |
|---------------|---|
| Company: | SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch |
| Address: | No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China |
| Post code: | 518057 |
| Test Engineer | Dee Zheng, Mike Hu |

Lab B:

| | |
|---------------|--|
| Company: | SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. |
| Address: | 1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China |
| Post code: | 710086 |
| Test Engineer | Ben Huang, Leah Chen |



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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

3.3 Test Facility

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

Lab A:

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

Lab B:

• **A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• **FCC –Designation Number: CN1271**



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3.4 General Description of EUT

| | |
|-----------------------|---|
| EUT Description: | Smart Phone |
| Model No.: | CHL-LX1 |
| Trade Mark: | HONOR |
| Hardware Version: | HL3CHLM |
| Software Version: | 5.0.1.69(C900E12R1P2) |
| Operation Frequency: | 2400MHz~2483.5MHz $f_c = 2402 \text{ MHz} + N * 2 \text{ MHz}$, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39. |
| Bluetooth version: | Bluetooth V5.1 LE |
| Modulation Technique: | Frequency Hopping Spread Spectrum(FHSS) |
| Modulation Type: | GFSK, $\pi/4$ DQPSK, 8DPSK |
| Number of Channel: | 79 |
| Hopping Channel Type: | Adaptive Frequency Hopping systems |
| Sample Type: | <input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module |
| Antenna Type: | <input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated |
| Antenna Gain: | -2.0dBi |
| Power Supply | <input checked="" type="checkbox"/> AC/DC Adapter; <input type="checkbox"/> Battery <input type="checkbox"/> PoE;; <input type="checkbox"/> Other: |

| Operation Frequency of each channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 0 | 2402MHz | 20 | 2422MHz | 40 | 2442MHz | 60 | 2462MHz |
| 1 | 2403MHz | 21 | 2423MHz | 41 | 2443MHz | 61 | 2463MHz |
| 2 | 2404MHz | 22 | 2424MHz | 42 | 2444MHz | 62 | 2464MHz |
| 3 | 2405MHz | 23 | 2425MHz | 43 | 2445MHz | 63 | 2465MHz |
| 4 | 2406MHz | 24 | 2426MHz | 44 | 2446MHz | 64 | 2466MHz |
| 5 | 2407MHz | 25 | 2427MHz | 45 | 2447MHz | 65 | 2467MHz |
| 6 | 2408MHz | 26 | 2428MHz | 46 | 2448MHz | 66 | 2468MHz |
| 7 | 2409MHz | 27 | 2429MHz | 47 | 2449MHz | 67 | 2469MHz |
| 8 | 2410MHz | 28 | 2430MHz | 48 | 2450MHz | 68 | 2470MHz |
| 9 | 2411MHz | 29 | 2431MHz | 49 | 2451MHz | 69 | 2471MHz |
| 10 | 2412MHz | 30 | 2432MHz | 50 | 2452MHz | 70 | 2472MHz |
| 11 | 2413MHz | 31 | 2433MHz | 51 | 2453MHz | 71 | 2473MHz |
| 12 | 2414MHz | 32 | 2434MHz | 52 | 2454MHz | 72 | 2474MHz |
| 13 | 2415MHz | 33 | 2435MHz | 53 | 2455MHz | 73 | 2475MHz |
| 14 | 2416MHz | 34 | 2436MHz | 54 | 2456MHz | 74 | 2476MHz |
| 15 | 2417MHz | 35 | 2437MHz | 55 | 2457MHz | 75 | 2477MHz |



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| | | | | | | | |
|----|---------|----|---------|----|---------|----|---------|
| 16 | 2418MHz | 36 | 2438MHz | 56 | 2458MHz | 76 | 2478MHz |
| 17 | 2419MHz | 37 | 2439MHz | 57 | 2459MHz | 77 | 2479MHz |
| 18 | 2420MHz | 38 | 2440MHz | 58 | 2460MHz | 78 | 2480MHz |
| 19 | 2421MHz | 39 | 2441MHz | 59 | 2461MHz | | |

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel | Frequency |
|---------------------------|-----------|
| The Lowest channel(CH0) | 2402MHz |
| The Middle channel(CH39) | 2441MHz |
| The Highest channel(CH78) | 2480MHz |

3.5 Test Environment

| Operating Environment: | |
|------------------------|------------|
| Temperature: | 25.0 °C |
| Humidity: | 50 % RH |
| Atmospheric Pressure: | 101.30 KPa |

3.6 Description of Support Units

The EUT has been tested independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

| | |
|--|--|
| Standard requirement: | 47 CFR Part 15C Section 15.203 /247(c) |
| <p>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.</p> <p>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.</p> | |
| <p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -2.0dBi.</p> | |



4.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

4.2.1 Test Requirement:

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

4.2.2 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.

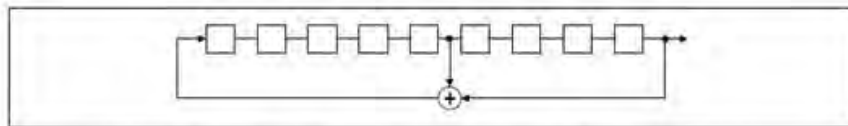
> Number of shift register stages: 9

> Length of pseudo-random sequence: $2^9 - 1 = 511$ bits

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

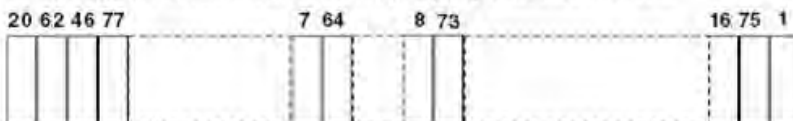
Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



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 RF 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 band so that it individually and independently to avoid hopping on the occupied channels. The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



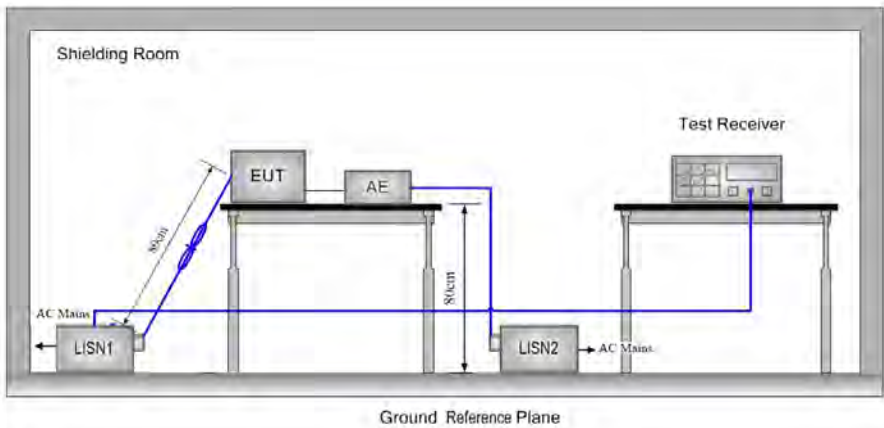
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4.3 AC Power Line Conducted Emissions

| | | | |
|--|---|--------------|-----------|
| Test Requirement: | 47 CFR Part 15C Section 15.207 | | |
| Test Method: | ANSI C63.10: 2013 | | |
| Test Frequency Range: | 150kHz to 30MHz | | |
| Limit: | Frequency range (MHz) | Limit (dBuV) | |
| | | 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. | | | |
| Test Procedure: | <ol style="list-style-type: none"> 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 50Ω/50μH + 5Ω 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: 2013 on conducted measurement. | | |



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| | |
|--------------------------|---|
| <p>Test Setup:</p> |  |
| <p>Test Mode:</p> | <p>Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel. Charge + Transmitting mode.</p> |
| <p>Final Test Mode:</p> | <p>Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Charge + Transmitting mode Only the worst case is recorded in the report.</p> |
| <p>Instruments Used:</p> | <p>Refer to section 5.10 for details.</p> |
| <p>Test Results:</p> | <p>Pass</p> |

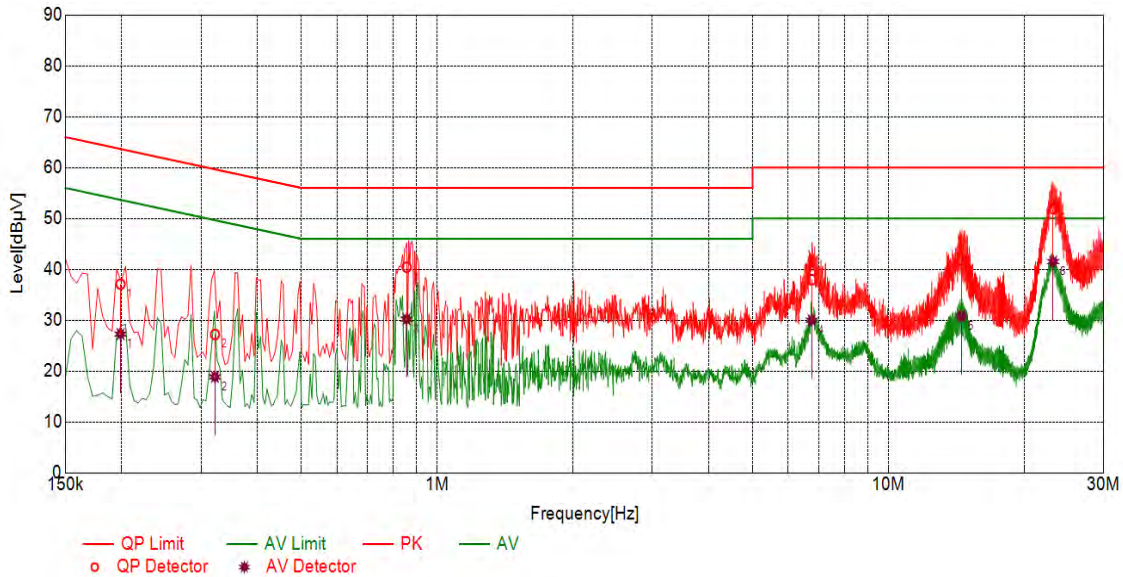


Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

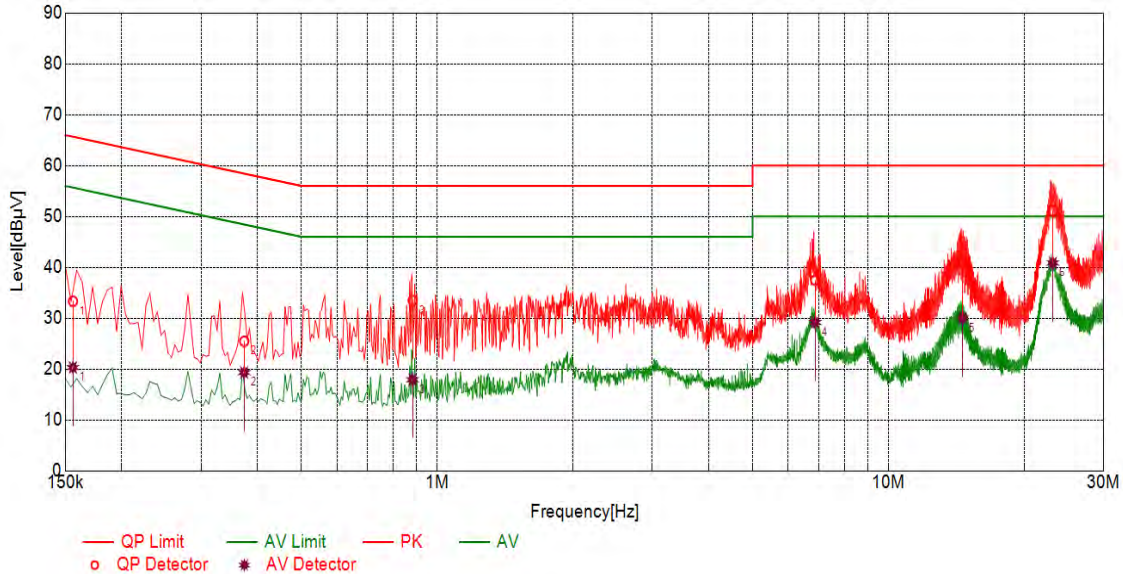
Live Line:



| Final Data List | | | | | | | | | |
|-----------------|-------------|-------------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|------|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Type |
| 1 | 0.1989 | 10.10 | 37.09 | 63.66 | 26.57 | 27.27 | 53.66 | 26.39 | L |
| 2 | 0.3220 | 10.10 | 27.20 | 59.65 | 32.45 | 18.86 | 49.65 | 30.79 | L |
| 3 | 0.8560 | 10.10 | 40.44 | 56.00 | 15.56 | 30.20 | 46.00 | 15.80 | L |
| 4 | 6.7626 | 10.10 | 37.97 | 60.00 | 22.03 | 30.01 | 50.00 | 19.99 | L |
| 5 | 14.5266 | 10.11 | 41.76 | 60.00 | 18.24 | 30.82 | 50.00 | 19.18 | L |
| 6 | 23.1914 | 10.11 | 51.93 | 60.00 | 8.07 | 41.52 | 50.00 | 8.48 | L |



Neutral Line:



| Final Data List | | | | | | | | | |
|-----------------|-------------|-------------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|------|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Type |
| 1 | 0.1560 | 10.10 | 33.33 | 65.68 | 32.35 | 20.30 | 55.68 | 35.38 | N |
| 2 | 0.3737 | 10.10 | 25.46 | 58.42 | 32.96 | 19.32 | 48.42 | 29.10 | N |
| 3 | 0.8823 | 10.10 | 33.50 | 56.00 | 22.50 | 17.91 | 46.00 | 28.09 | N |
| 4 | 6.8820 | 10.10 | 37.47 | 60.00 | 22.53 | 29.16 | 50.00 | 20.84 | N |
| 5 | 14.6140 | 10.11 | 40.97 | 60.00 | 19.03 | 30.05 | 50.00 | 19.95 | N |
| 6 | 23.1531 | 10.11 | 51.11 | 60.00 | 8.89 | 40.86 | 50.00 | 9.14 | N |

Remarks:

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

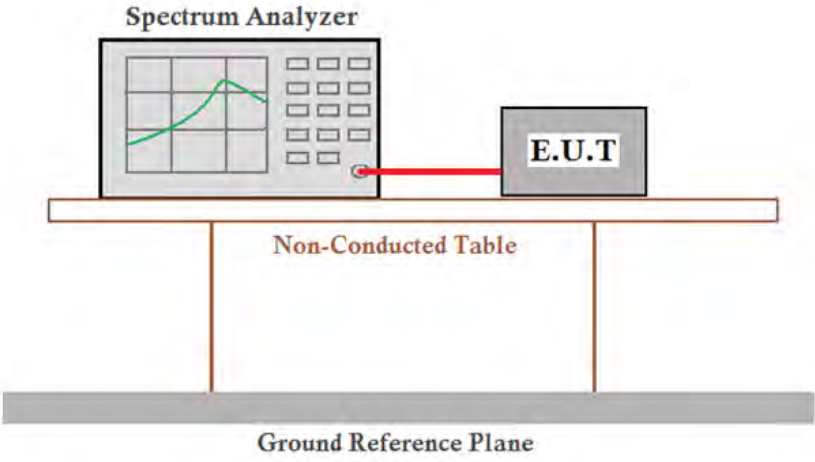


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Shenzhen Branch

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4.4 Conducted Output Power

| | |
|------------------------|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (b)(1) |
| Test Method: | ANSI C63.10:2013 Section 7.8.5 |
| Test Setup: |  |
| Test Instruments: | Refer to section 5.10 for details |
| Exploratory Test Mode: | Non-hopping transmitting with all kind of modulation and all kind of data type. |
| Final Test Mode: | Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. |
| Limit: | (20.97dBm) 125mW |
| Test Results: | Pass |



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4.4.1 Test Results

Measurement Data of Peak Power:

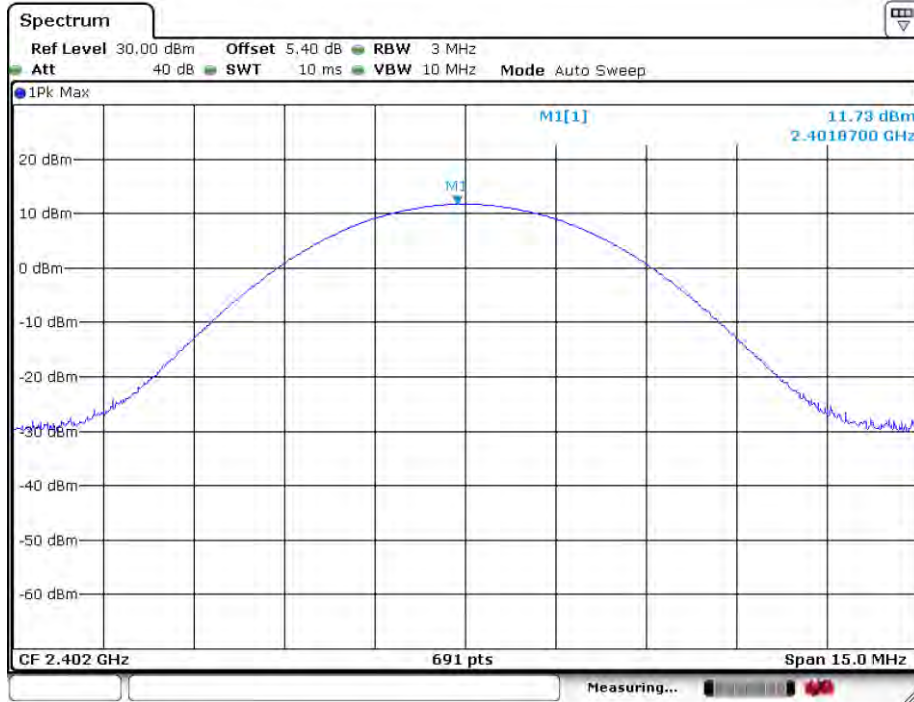
| GFSK mode | | | |
|---------------|-------------------------|-------------|--------|
| Test Channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest | 11.73 | 20.97 | Pass |
| Middle | 12.65 | 20.97 | Pass |
| Highest | 12.45 | 20.97 | Pass |
| π/4DQPSK mode | | | |
| Test Channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest | 11.46 | 20.97 | Pass |
| Middle | 12.13 | 20.97 | Pass |
| Highest | 11.83 | 20.97 | Pass |
| 8DPSK mode | | | |
| Test Channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest | 11.42 | 20.97 | Pass |
| Middle | 12.13 | 20.97 | Pass |
| Highest | 11.87 | 20.97 | Pass |



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4.4.2 Test Plots

| | | | |
|------------|------|---------------|--------|
| Test mode: | GFSK | Test channel: | Lowest |
|------------|------|---------------|--------|



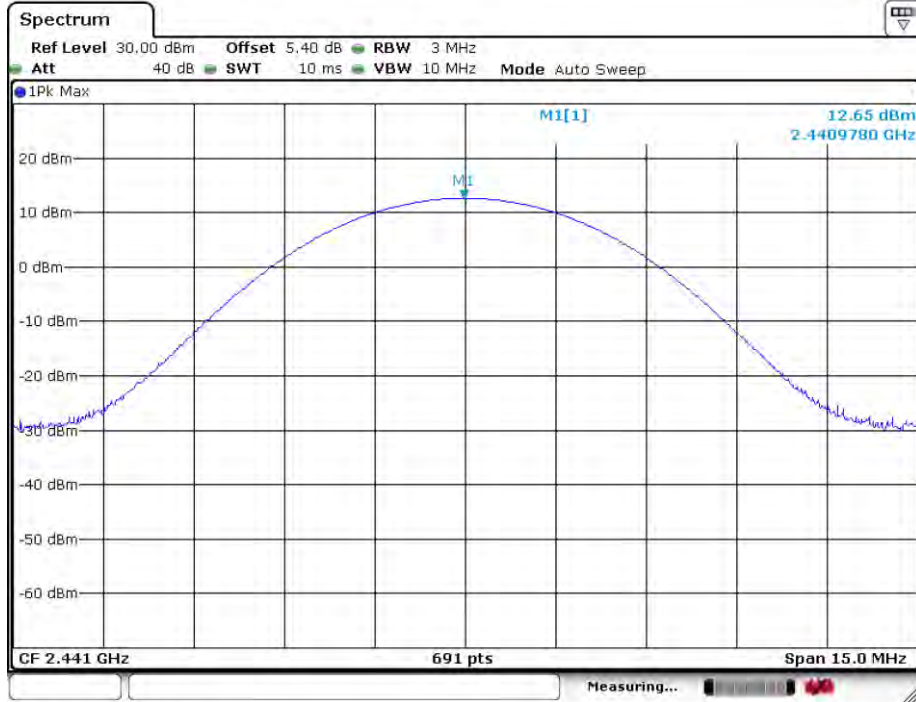
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| | | | |
|------------|------|---------------|--------|
| Test mode: | GFSK | Test channel: | Middle |
|------------|------|---------------|--------|



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| | | | |
|------------|------|---------------|---------|
| Test mode: | GFSK | Test channel: | Highest |
|------------|------|---------------|---------|



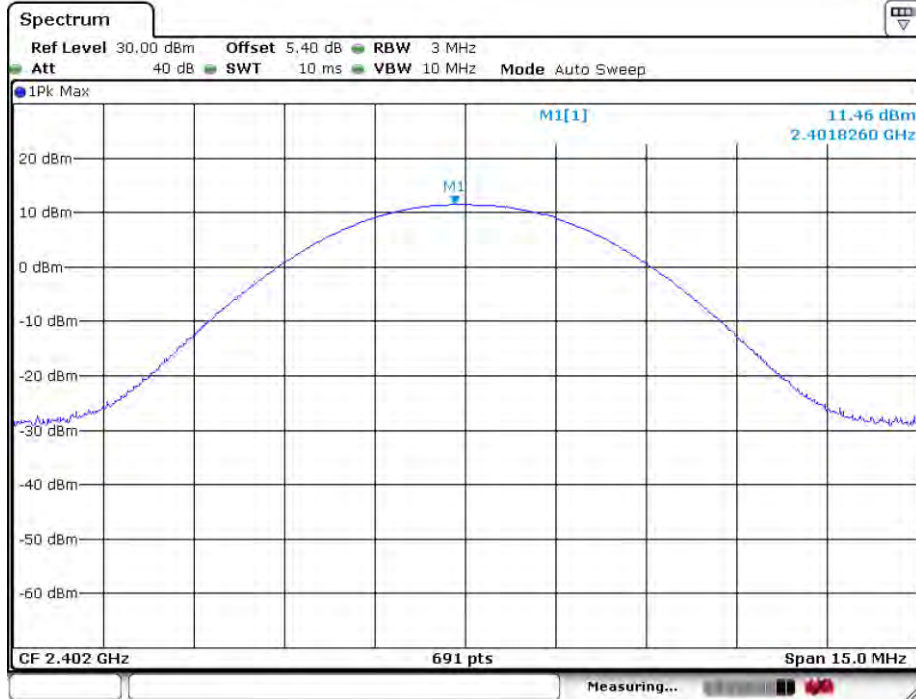
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| | | | |
|------------|---------------|---------------|--------|
| Test mode: | $\pi/4$ DQPSK | Test channel: | Lowest |
|------------|---------------|---------------|--------|



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| | | | |
|------------|--------------|---------------|--------|
| Test mode: | $\pi/4$ QPSK | Test channel: | Middle |
|------------|--------------|---------------|--------|



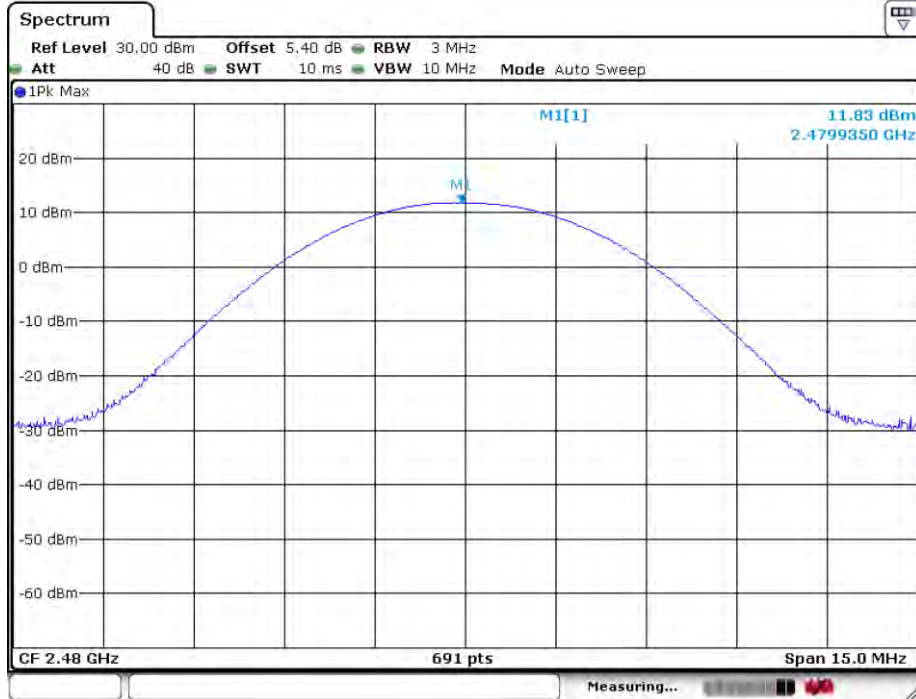
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| | | | |
|------------|--------------|---------------|---------|
| Test mode: | $\pi/4$ QPSK | Test channel: | Highest |
|------------|--------------|---------------|---------|



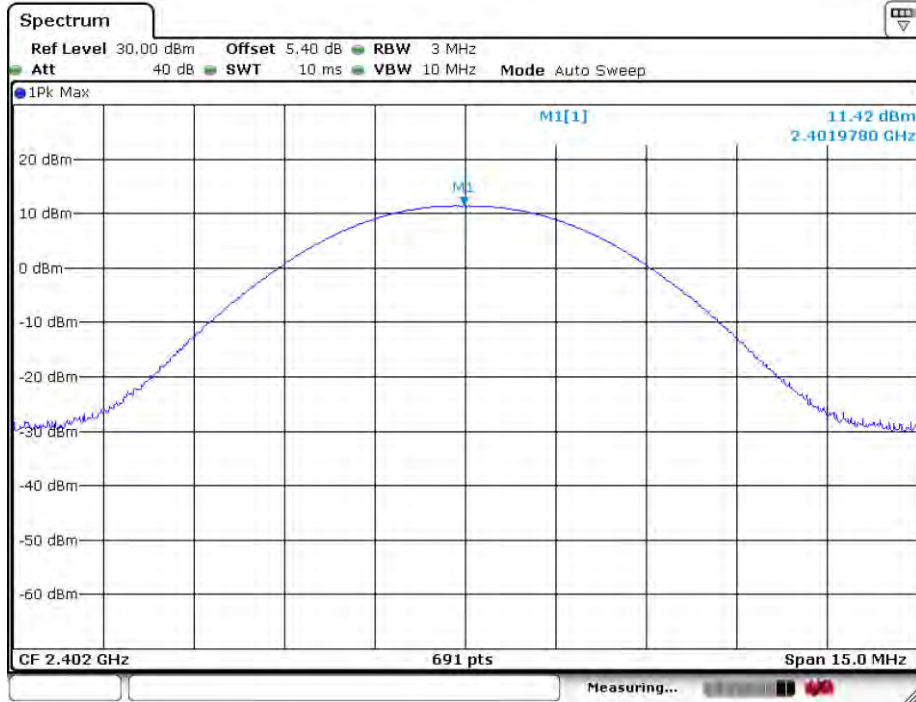
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| | | | |
|------------|-------|---------------|--------|
| Test mode: | 8DPSK | Test channel: | Lowest |
|------------|-------|---------------|--------|



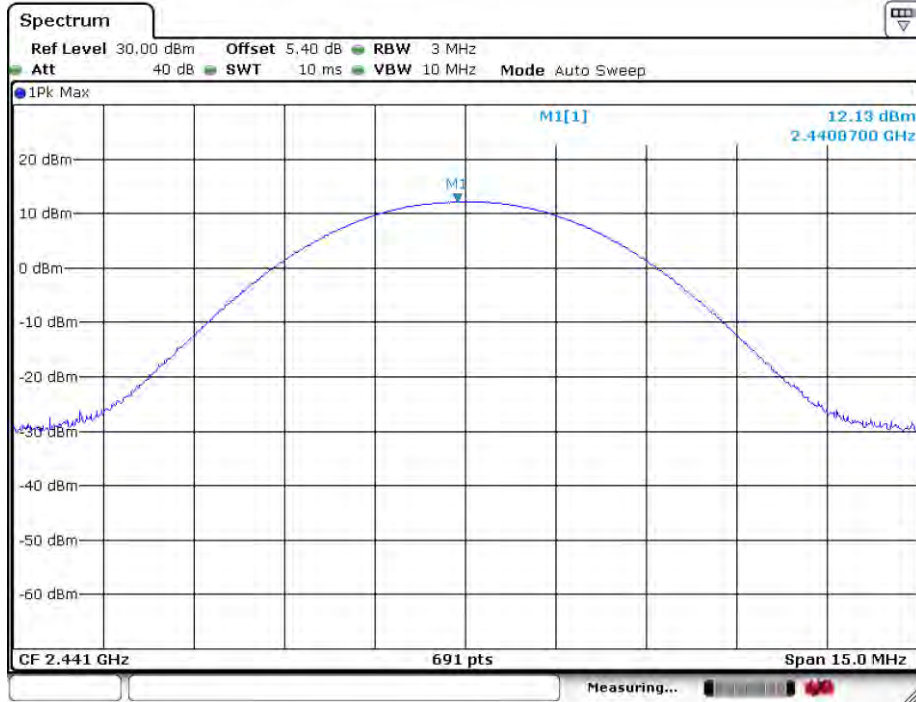
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| | | | |
|------------|-------|---------------|--------|
| Test mode: | 8DPSK | Test channel: | Middle |
|------------|-------|---------------|--------|



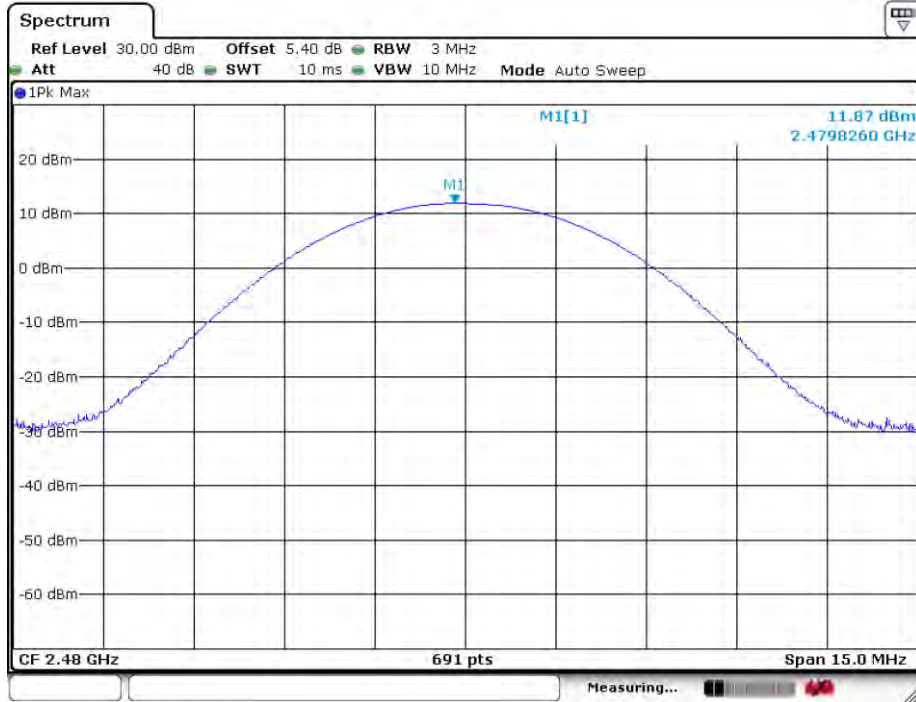
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| | | | |
|------------|-------|---------------|---------|
| Test mode: | 8DPSK | Test channel: | Highest |
|------------|-------|---------------|---------|



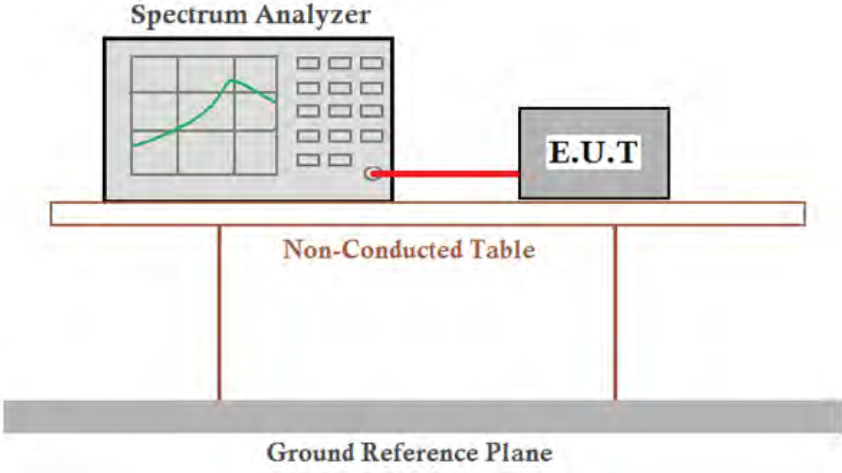
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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth

| | |
|------------------------|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(1) |
| Test Method: | ANSI C63.10:2013 Section 7.8.7 |
| Test Setup: |  |
| Instruments Used: | Refer to section 5.10 for details |
| Exploratory Test Mode: | Non-hopping transmitting with all kind of modulation and all kind of data type. |
| Final Test Mode: | Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. |
| Limit: | NA |
| Test Results: | Pass |



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4.5.1 Test Results

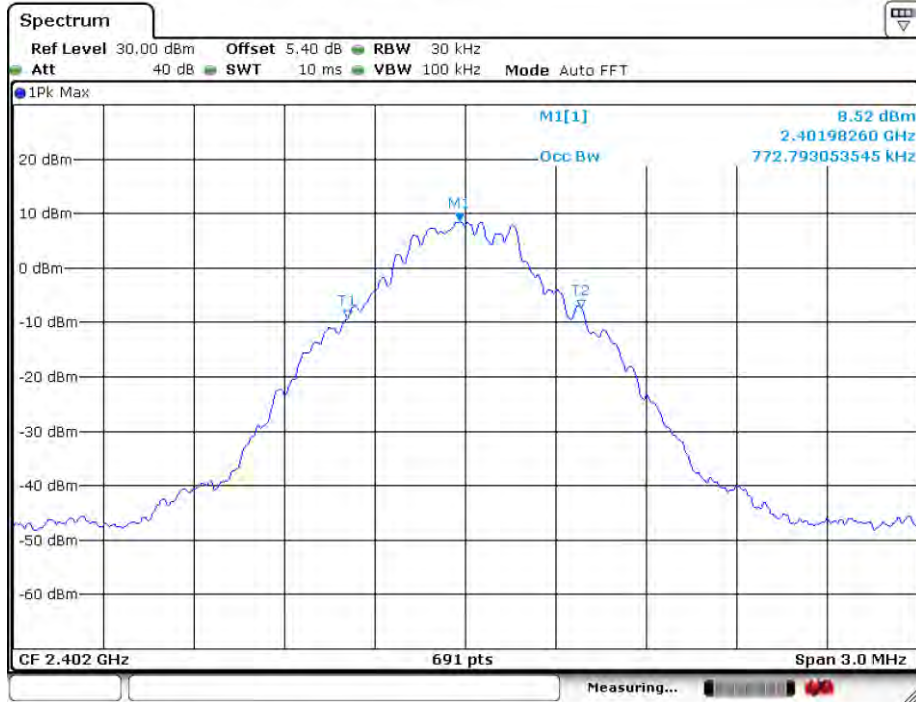
| Mode | Test Channel | 99% Occupied Bandwidth (KHz) | 20dB Emission Bandwidth (KHz) | Result |
|----------|--------------|------------------------------|-------------------------------|--------|
| GFSK | Lowest | 772.8 | 820.5 | Pass |
| | Middle | 764.1 | 820.5 | Pass |
| | Highest | 764.1 | 820.5 | Pass |
| π/4DQPSK | Lowest | 1154.8 | 1267.7 | Pass |
| | Middle | 1146.2 | 1267.7 | Pass |
| | Highest | 1150.5 | 1254.7 | Pass |
| 8DPSK | Lowest | 1159.2 | 1276.4 | Pass |
| | Middle | 1150.5 | 1267.7 | Pass |
| | Highest | 1150.5 | 1263.4 | Pass |



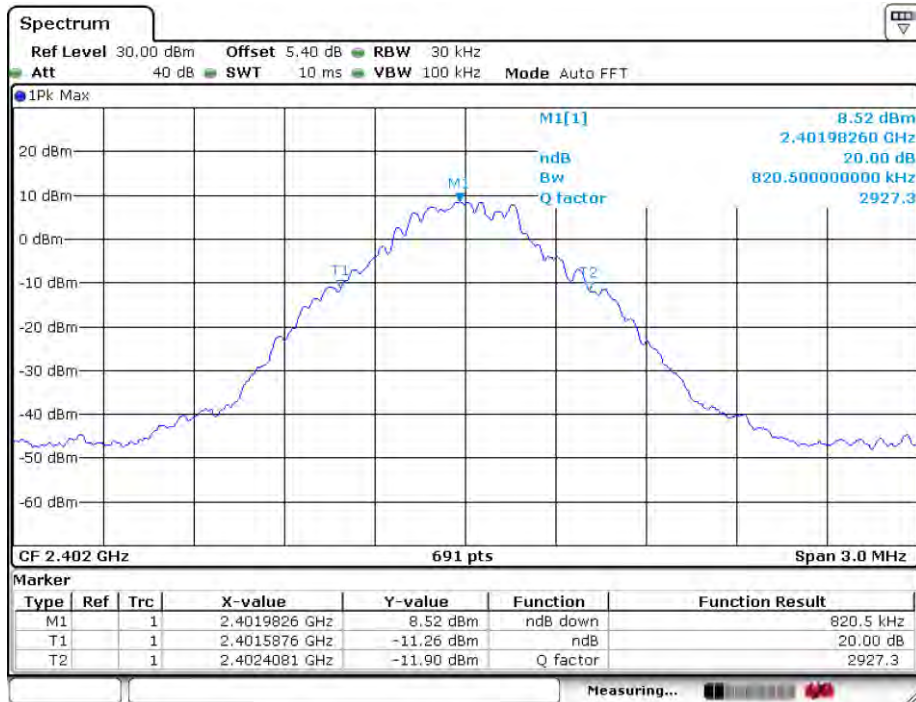
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4.5.2 Test Plots

| | | | |
|------------|------|---------------|--------|
| Test mode: | GFSK | Test channel: | Lowest |
|------------|------|---------------|--------|



Date: 27.DEC.2020 15:53:00

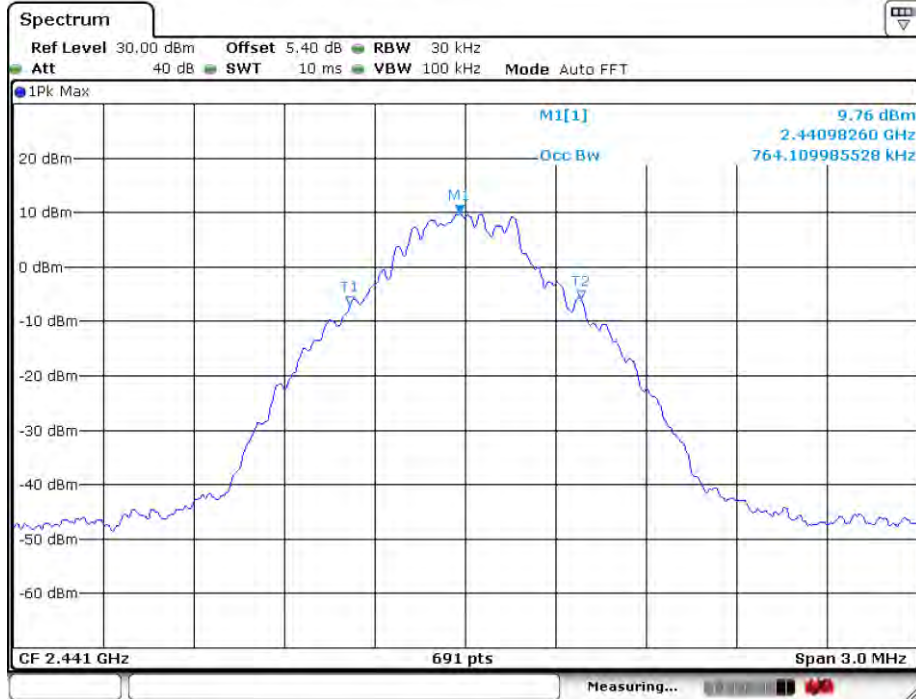


Date: 27.DEC.2020 15:53:12

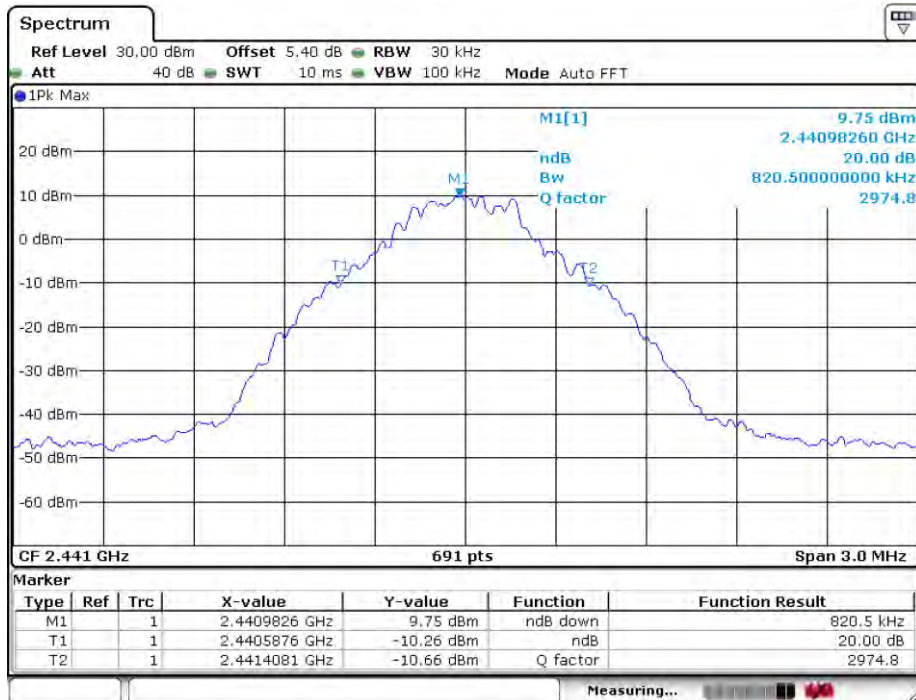


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| | | | |
|------------|------|---------------|--------|
| Test mode: | GFSK | Test channel: | Middle |
|------------|------|---------------|--------|



Date: 27.DEC.2020 15:53:31

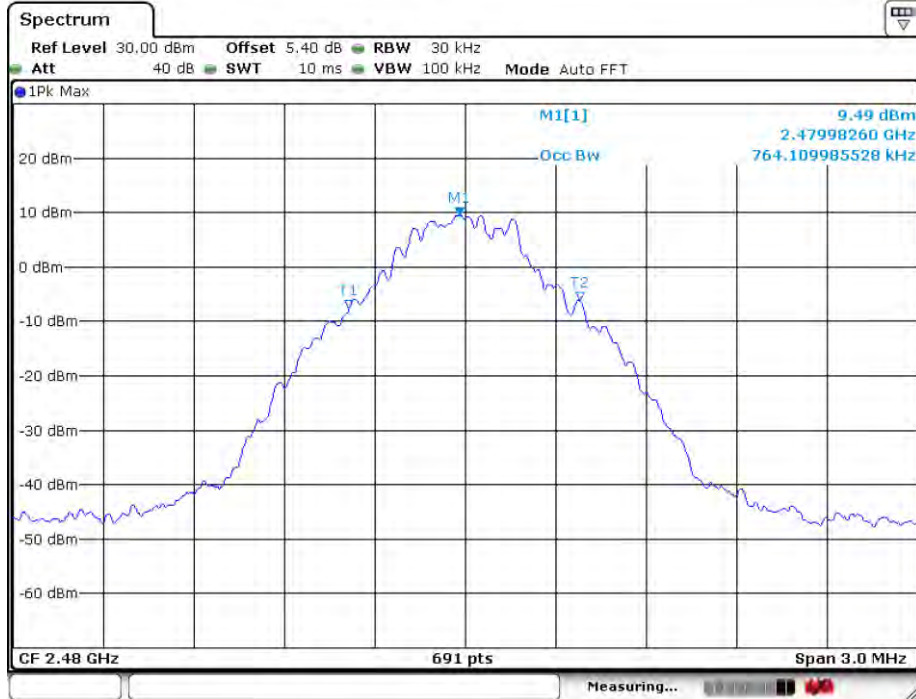


Date: 27.DEC.2020 15:53:24

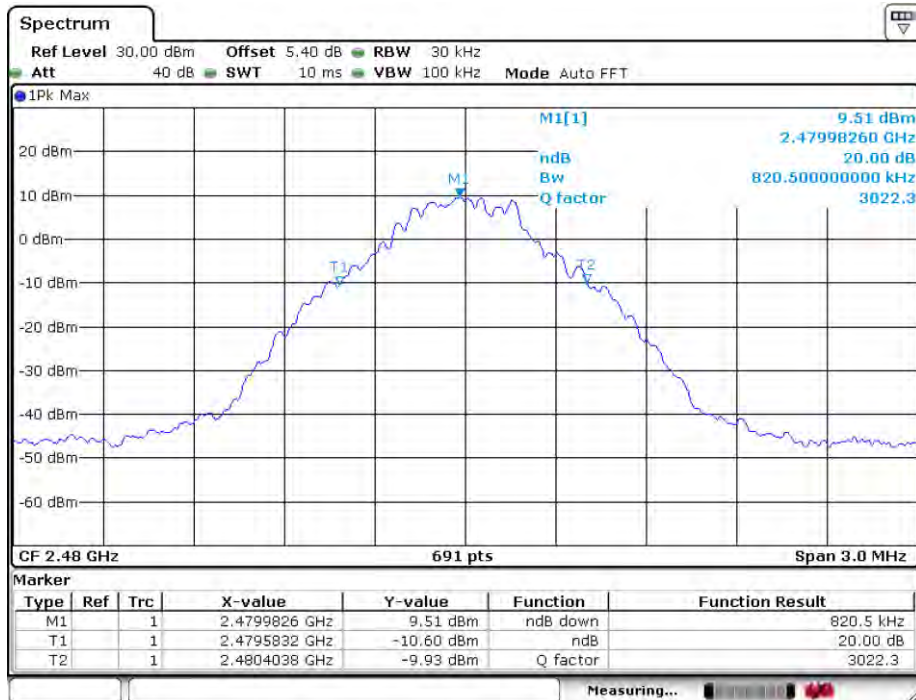


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| | | | |
|------------|------|---------------|---------|
| Test mode: | GFSK | Test channel: | Highest |
|------------|------|---------------|---------|



Date: 27.DEC.2020 15:53:42



Date: 27.DEC.2020 15:53:51

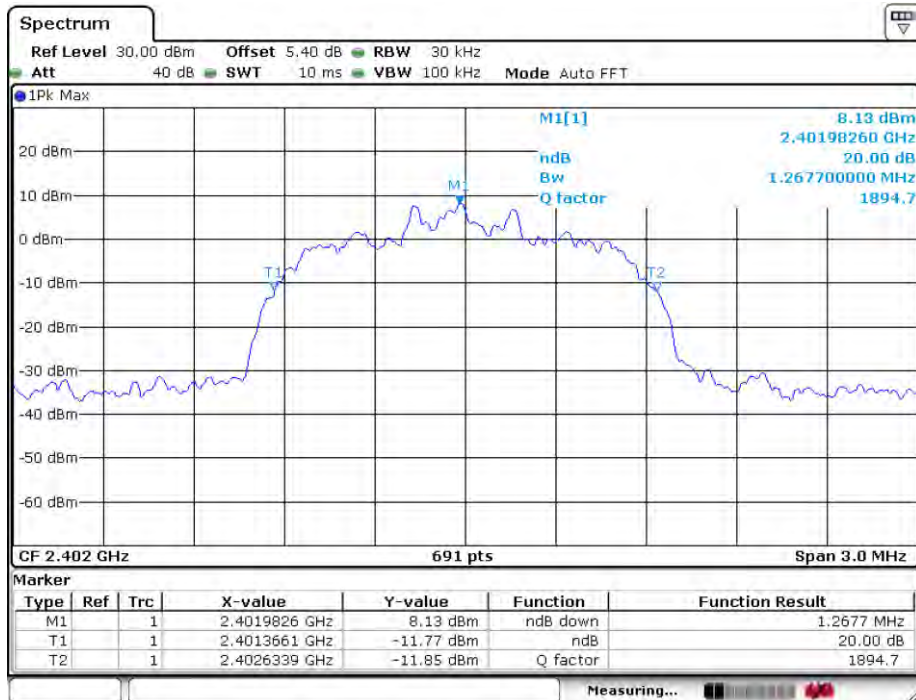


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| | | | |
|------------|---------------|---------------|--------|
| Test mode: | $\pi/4$ DQPSK | Test channel: | Lowest |
|------------|---------------|---------------|--------|



Date: 27.DEC.2020 15:55:09

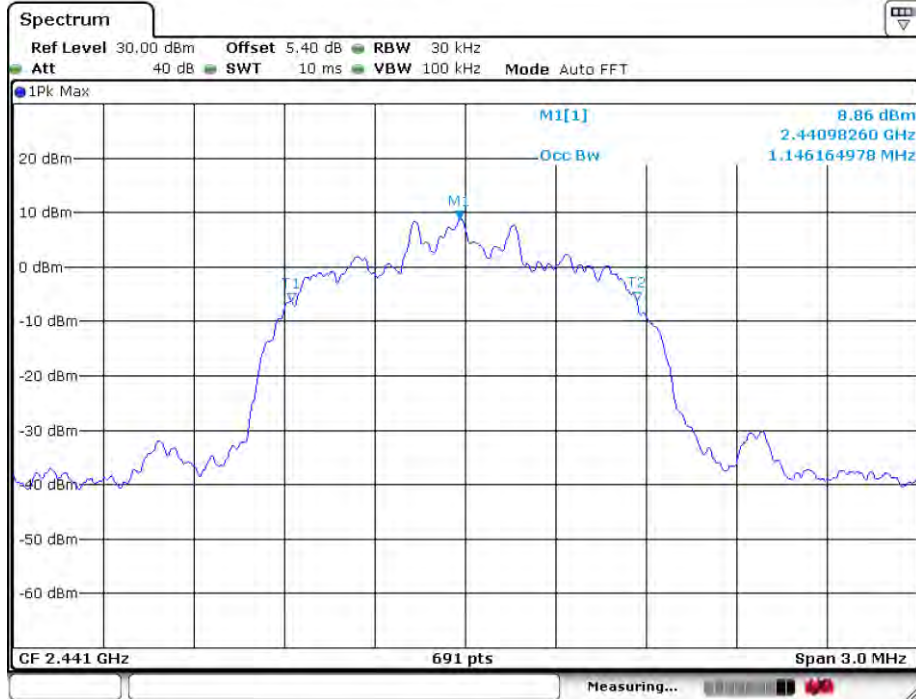


Date: 27.DEC.2020 15:54:59

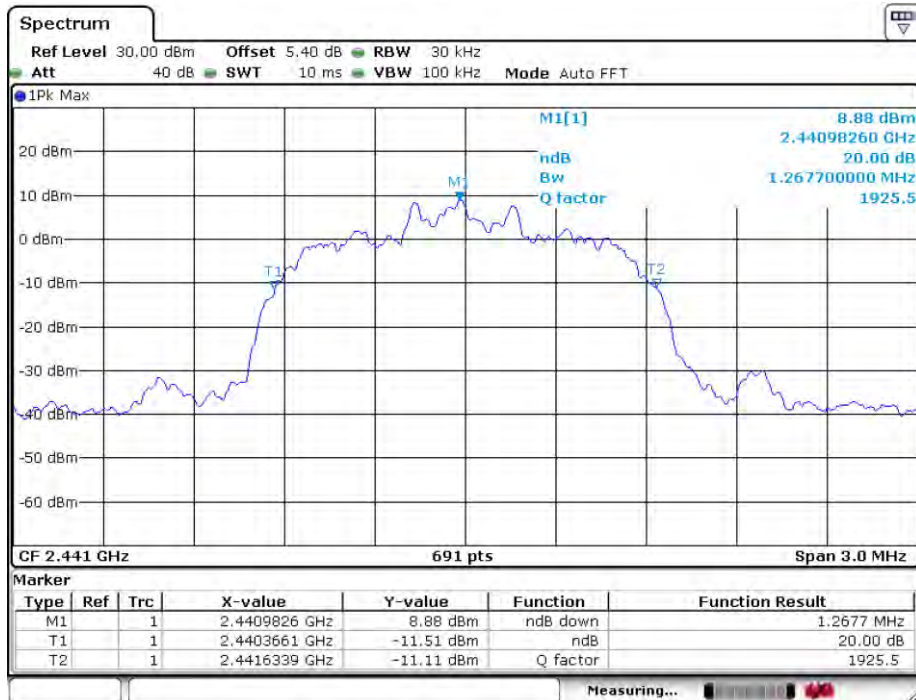


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| | | | |
|------------|---------------|---------------|--------|
| Test mode: | $\pi/4$ DQPSK | Test channel: | Middle |
|------------|---------------|---------------|--------|



Date: 27.DEC.2020 15:54:36

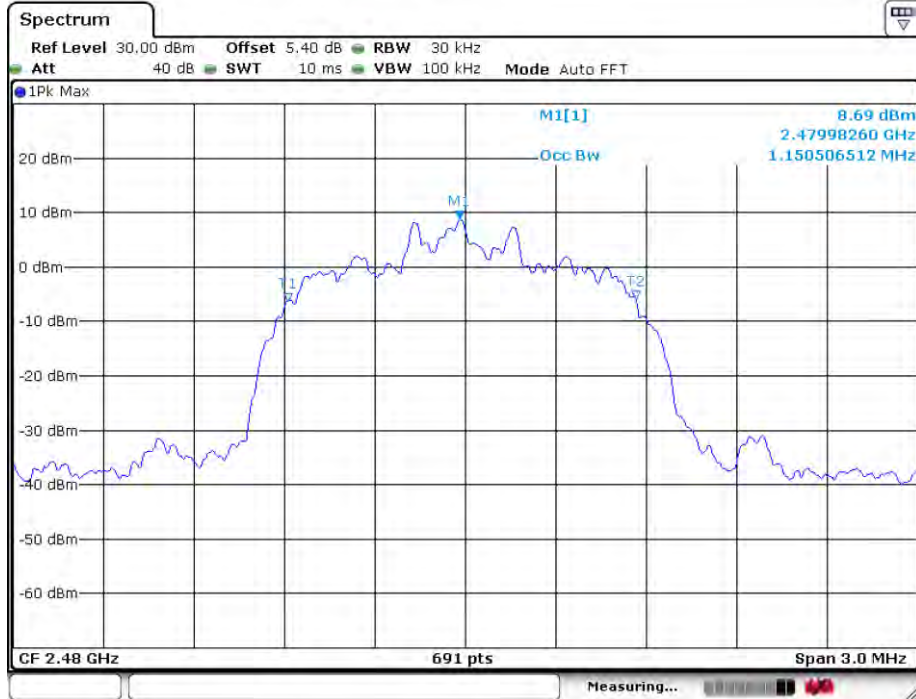


Date: 27.DEC.2020 15:54:46

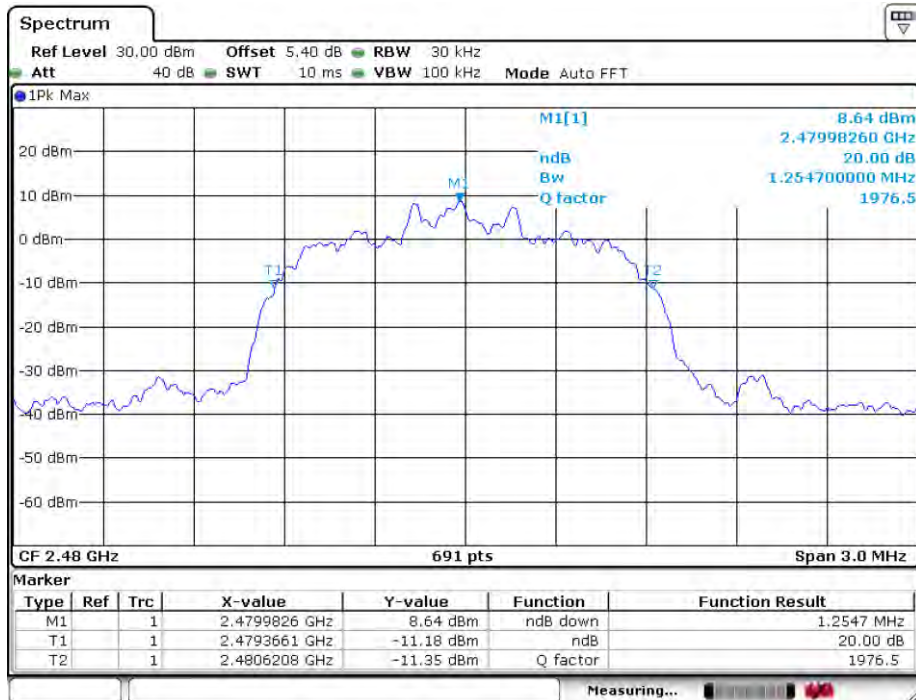


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| | | | |
|------------|---------------|---------------|---------|
| Test mode: | $\pi/4$ DQPSK | Test channel: | Highest |
|------------|---------------|---------------|---------|



Date: 27.DEC.2020 15:54:16



Date: 27.DEC.2020 15:54:04

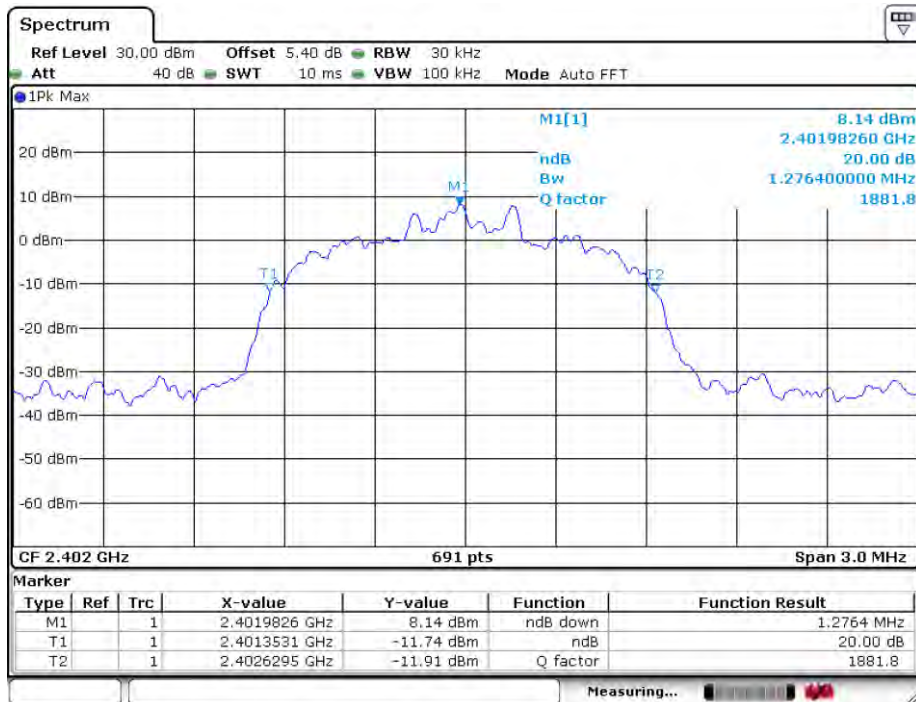


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| | | | |
|------------|-------|---------------|--------|
| Test mode: | 8DPSK | Test channel: | Lowest |
|------------|-------|---------------|--------|



Date: 27.DEC.2020 15:55:22



Date: 27.DEC.2020 15:55:36

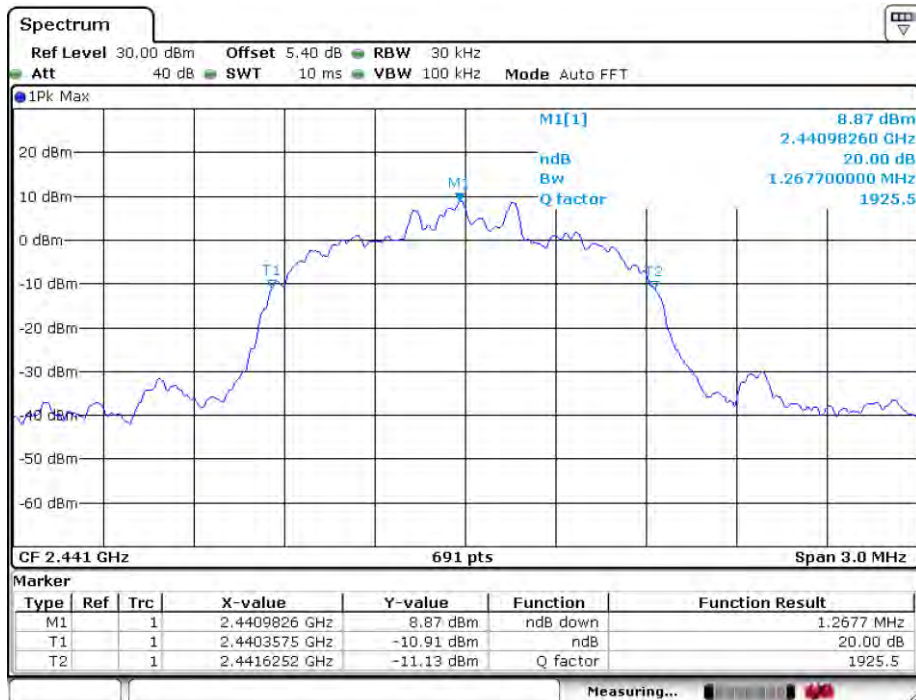


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| | | | |
|------------|-------|---------------|--------|
| Test mode: | 8DPSK | Test channel: | Middle |
|------------|-------|---------------|--------|



Date: 27.DEC.2020 15:55:58

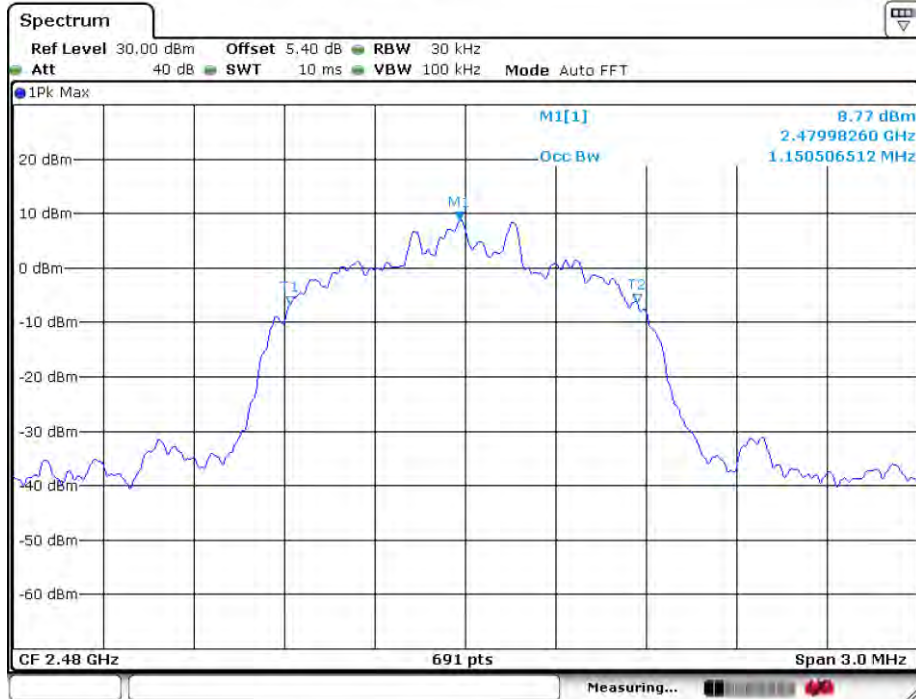


Date: 27.DEC.2020 15:55:49

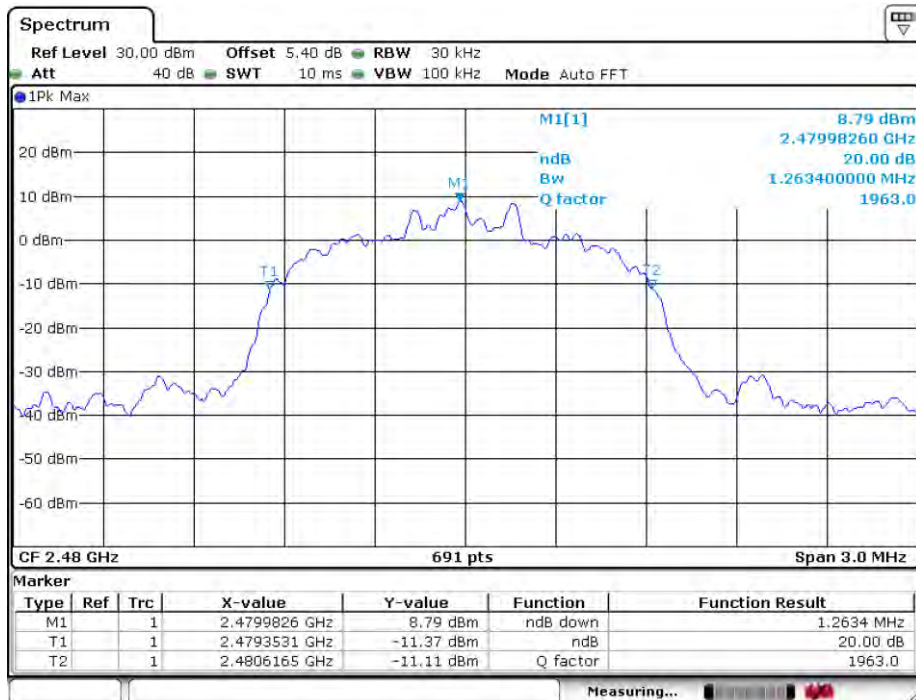


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| | | | |
|------------|-------|---------------|---------|
| Test mode: | 8DPSK | Test channel: | Highest |
|------------|-------|---------------|---------|



Date: 27.DEC.2020 15:56:10

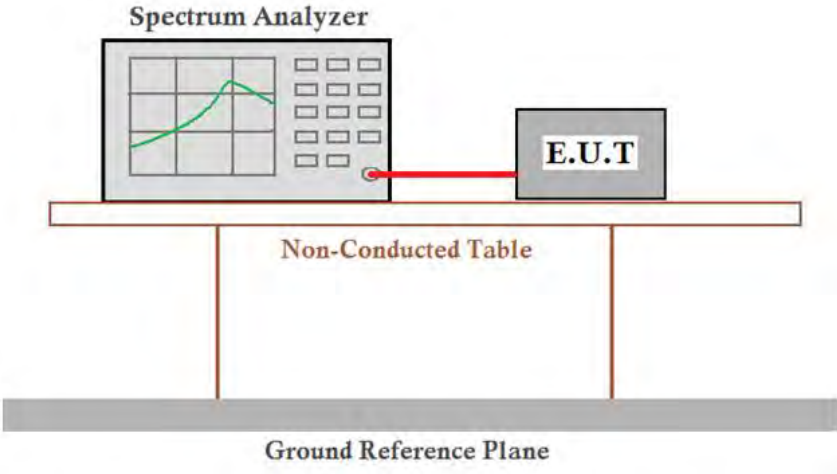


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4.6 Carrier Frequencies Separation

| | |
|------------------------|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(1) |
| Test Method: | ANSI C63.10:2013 Section 7.8.2 |
| Test Setup: |  |
| Test Instruments: | Refer to section 5.10 for details |
| Exploratory Test Mode: | Hopping transmitting with all kind of modulation and all kind of data type. |
| Final Test Mode: | Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. |
| Limit: | 2/3 of the 20dB bandwidth Remark: the transmission power is less than 0.125W. |
| Test Results: | Pass |



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4.6.1 Test Results

| GFSK mode | | | |
|--------------------|--------------------------------------|-------------|--------|
| Test channel | Carrier Frequencies Separation (kHz) | Limit (kHz) | Result |
| Middle | 1003 | 547.0 | PASS |
| $\pi/4$ DQPSK mode | | | |
| Test channel | Carrier Frequencies Separation (kHz) | Limit (kHz) | Result |
| Middle | 1016 | 845.1 | PASS |
| 8DPSK mode | | | |
| Test channel | Carrier Frequencies Separation (kHz) | Limit (kHz) | Result |
| Middle | 1012 | 850.9 | PASS |

Remark: According to section 4.5,

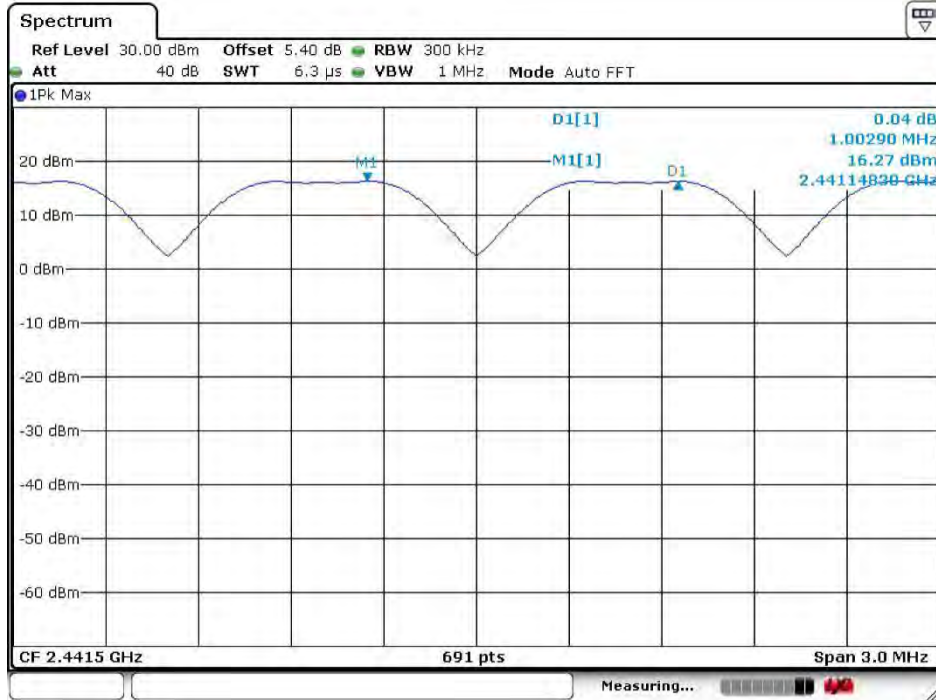
| Mode | 20dB bandwidth (kHz) (worse case) | Limit (kHz) (Carrier Frequencies Separation) |
|---------------|--------------------------------------|---|
| GFSK | 820.5 | 547.0 |
| $\pi/4$ DQPSK | 1267.7 | 845.1 |
| 8DPSK | 1276.4 | 850.9 |



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4.6.2 Test Plots

| | | | |
|------------|------|---------------|--------|
| Test mode: | GFSK | Test channel: | Middle |
|------------|------|---------------|--------|



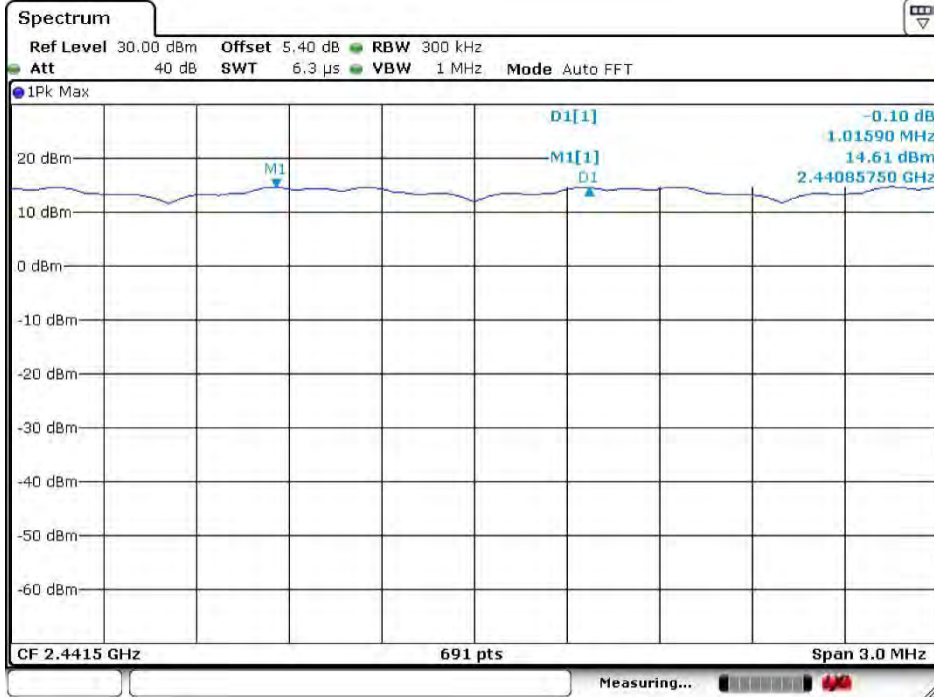
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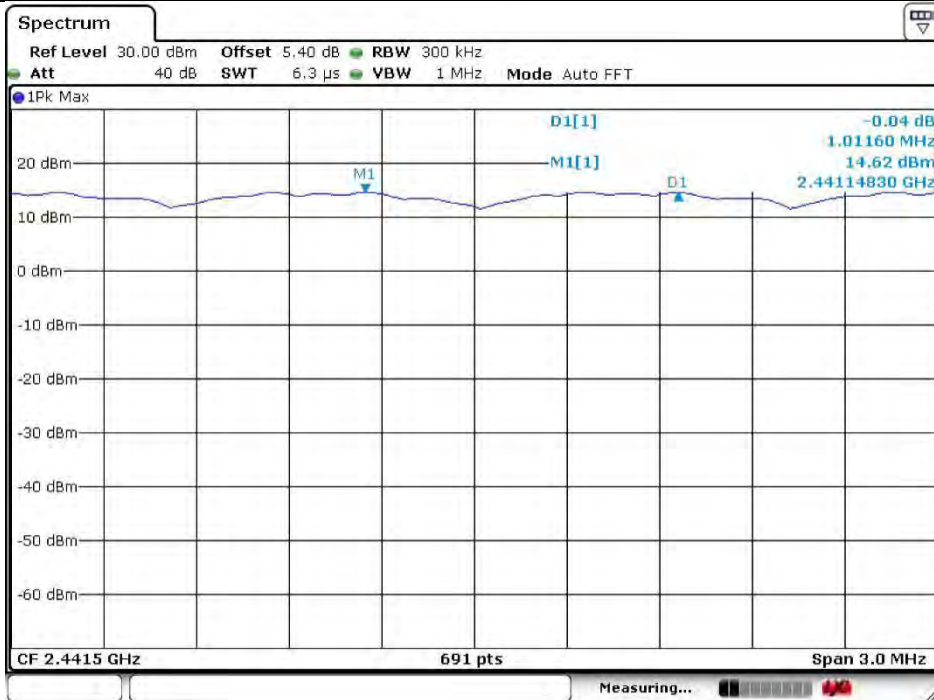
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| | | | |
|------------|---------------|---------------|--------|
| Test mode: | $\pi/4$ DQPSK | Test channel: | Middle |
|------------|---------------|---------------|--------|



Date: 4.FEB.2021 17:22:21

| | | | |
|------------|-------|---------------|--------|
| Test mode: | 8DPSK | Test channel: | Middle |
|------------|-------|---------------|--------|



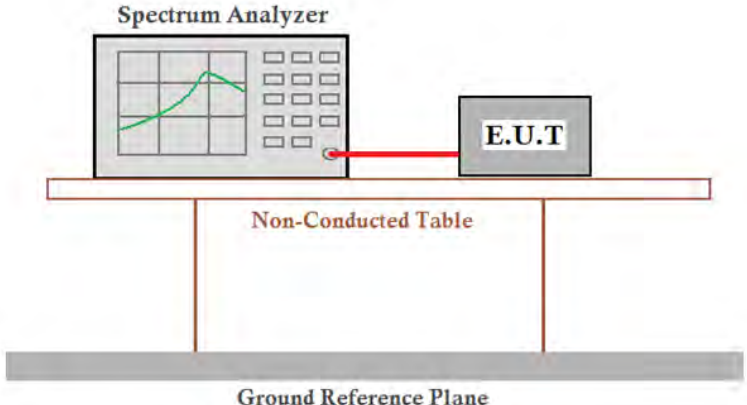
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4.7 Hopping Channel Number

| | |
|-------------------|--|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(1) |
| Test Method: | ANSI C63.10:2013 Section 7.8.3 |
| Test Setup: |  |
| Instruments Used: | Refer to section 5.10 for details |
| Test Mode: | Hopping transmitting with all kind of modulation |
| Limit: | At least 15 channels |
| Test Results: | Pass |

4.7.1 Test Results

| Mode | Hopping channel numbers | Limit |
|---------------|-------------------------|-------|
| GFSK | 79 | ≥15 |
| $\pi/4$ DQPSK | 79 | ≥15 |
| 8DPSK | 79 | ≥15 |

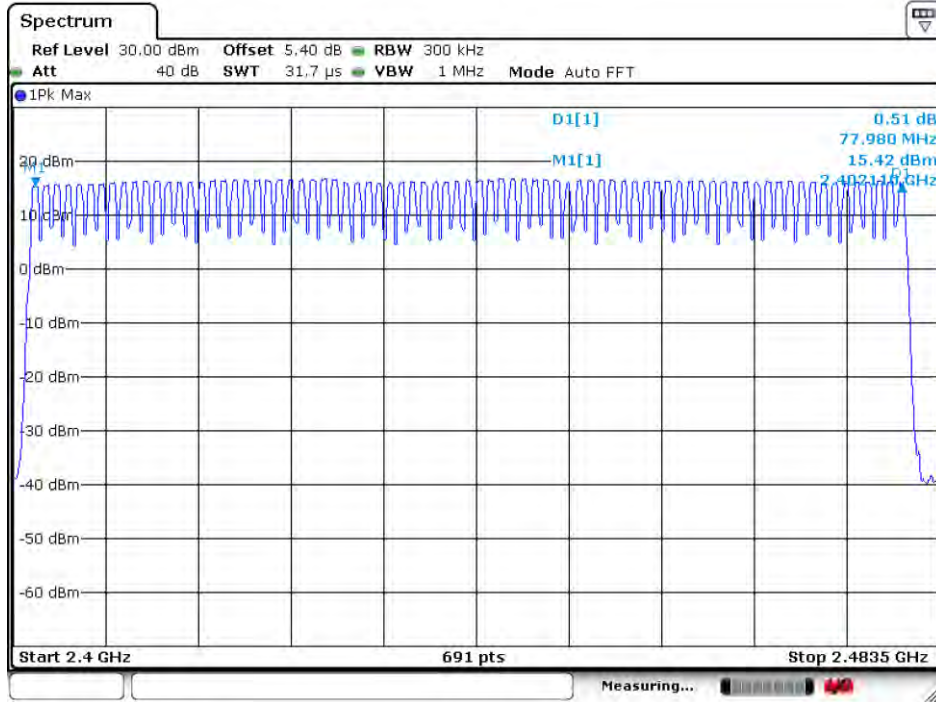


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4.7.2 Test Plots

| | |
|------------|------|
| Test mode: | GFSK |
|------------|------|



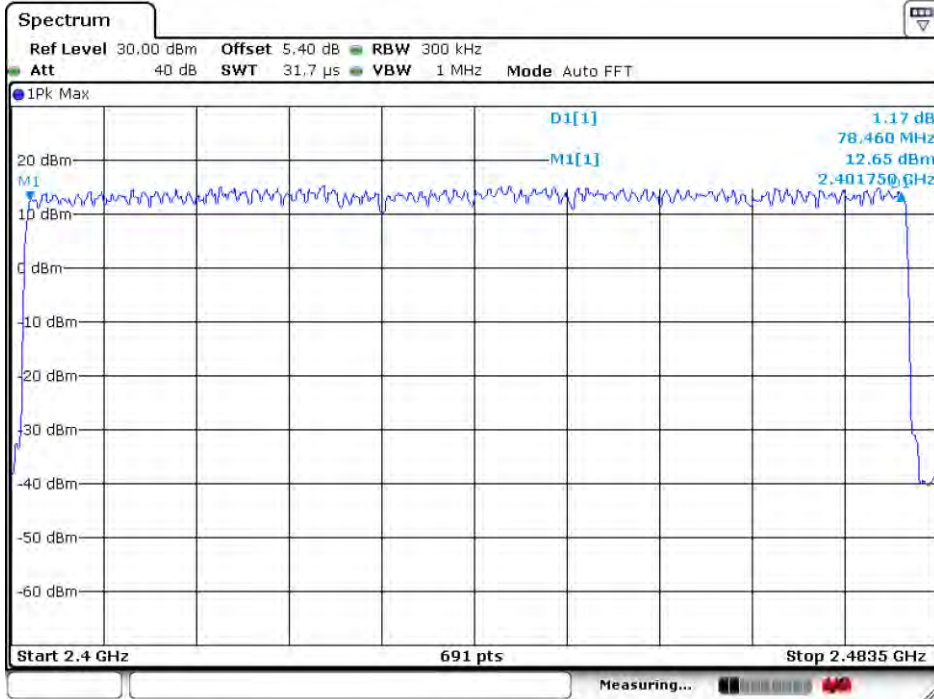
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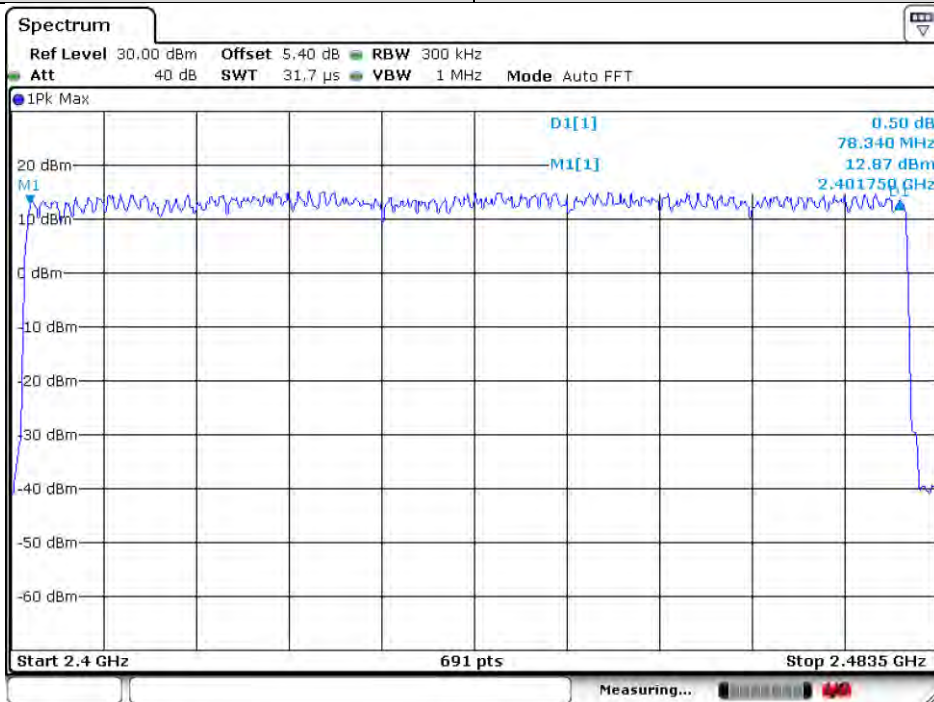
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Test mode: π/4DQPSK



Test mode: 8DPSK

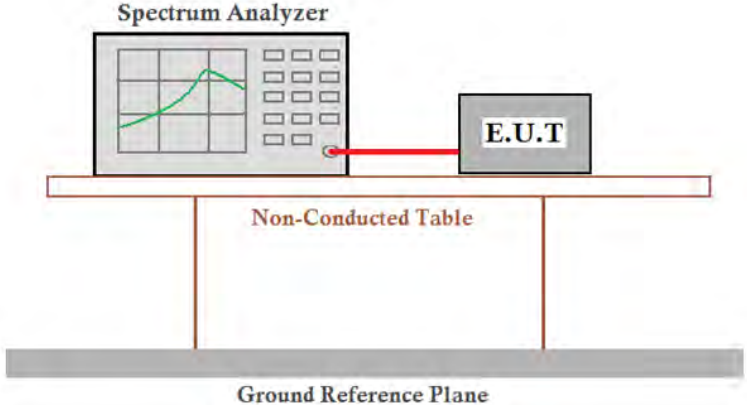


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4.8 Dwell Time

| | |
|-------------------|--|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(1) |
| Test Method: | ANSI C63.10:2013 Section 7.8.4 |
| Test Setup: |  |
| Instruments Used: | Refer to section 5.10 for details |
| Test Mode: | Hopping transmitting with all kind of modulation and all kind of data type. |
| Limit: | 0.4 Second |
| Test Results: | Pass |



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4.8.1 Test Results

| Operation Modes | On time (ms) on one channel |
|-----------------|-------------------------------|
| DH1 | 0.396 |
| DH3 | 1.654 |
| DH5 | 2.913 |
| 2-DH1 | 0.399 |
| 2-DH3 | 1.658 |
| 2-DH5 | 2.906 |
| 3-DH1 | 0.399 |
| 3-DH2 | 1.658 |
| 3-DH5 | 2.935 |

Bluetooth Time of Occupancy Calculation

Typically, Bluetooth 1x/EDR mode has a channel hopping rate of 1600 hops/s, since 1x/EDR modes use 5 transmit and 1 receive slot, for a total of 6 slots, the Bluetooth transmitter is actually hopping at a rate of $1600/6=266.67$ hops/slot

$400\text{ms} \times 79 \text{ Channel} = 31.6 \text{ s}$ (Time of Occupancy Limit)

Worst case BT has 266.67 hops/second (for 1x/EDR modes with 3-DH5 operation)

$266.67 \text{ hops/second} / 79 \text{ channels} = 3.38 \text{ hops/second}$ (# of hops/second on one channel)

$3.38 \text{ hops/second} / \text{channel} \times 31.6 \text{ seconds} = 106.67 \text{ hops}$ (#hops over a 31.6 second period)

$106.67 \text{ hops} \times 2.935 \text{ ms/channel} = 313.08 \text{ ms}$ (worst case dwell time for one channel in 1x/EDR

modes)

With AFH, the number of channels is reduced to a minimum of 20 channels and the channel hopping rate is reduced by 50% to 800hops/s, AFH mode also uses 6 slots so the Bluetooth transmitter hops at a rate of $800/6=133.3$ hops/s/slot

$400\text{ms} \times 20 \text{ Channel} = 8 \text{ s}$ (Time of Occupancy Limit)

Worst case BT has 133.3 hops/second/slot (for AFH mode with 3-DH5 operation)

$133.3 \text{ hops/second} / 20 \text{ channels} = 6.67 \text{ hops/second}$ (#hops/second on one channel)

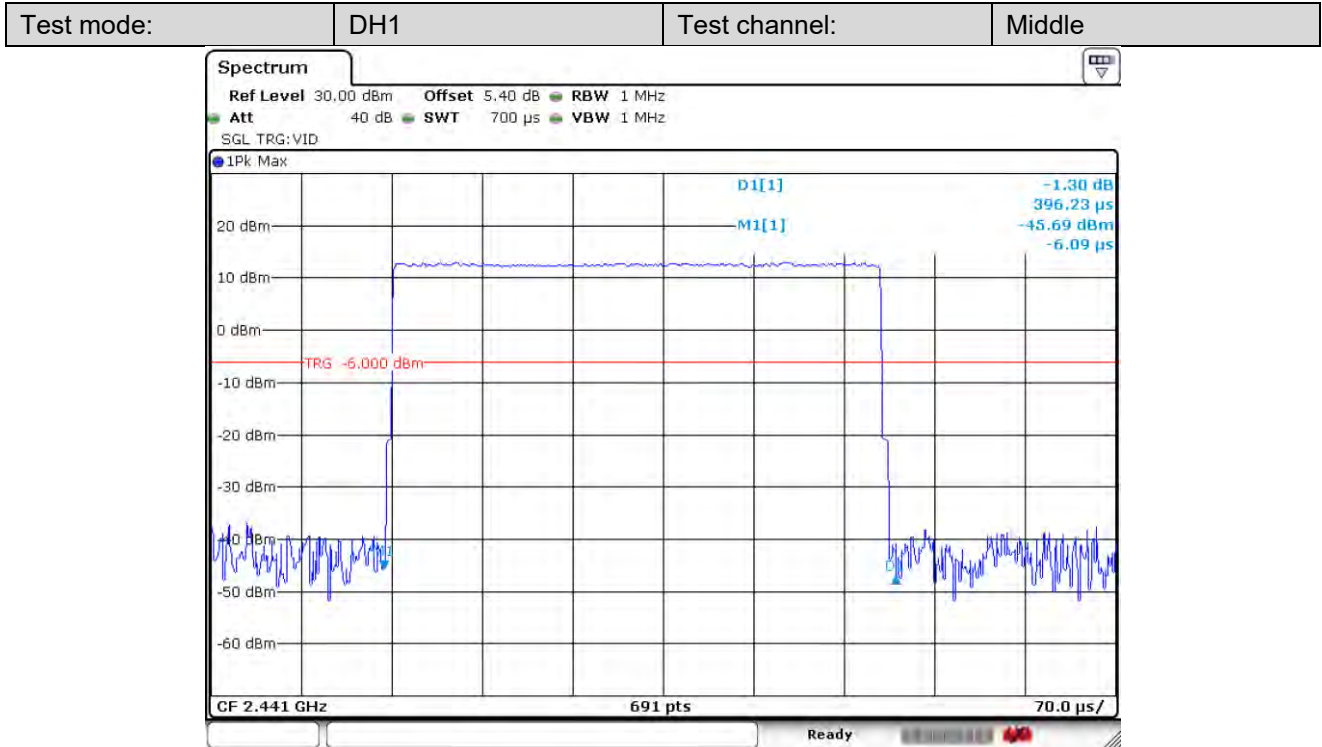
$6.67 \text{ hops/second} \times 8 \text{ seconds} = 53.34 \text{ hops}$ (#hops over a 8 seconds period)

$53.34 \text{ hops} \times 2.935 \text{ ms/channel} = 156.55 \text{ ms}$ (worst case dwell time for one channel in AFH mode)



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4.8.2 Test Plots

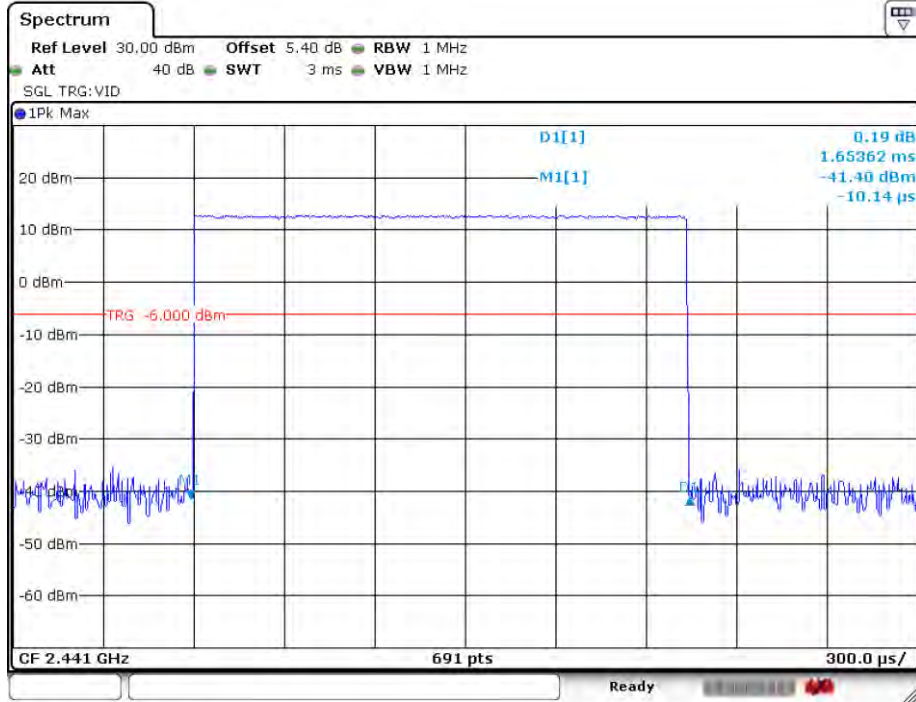


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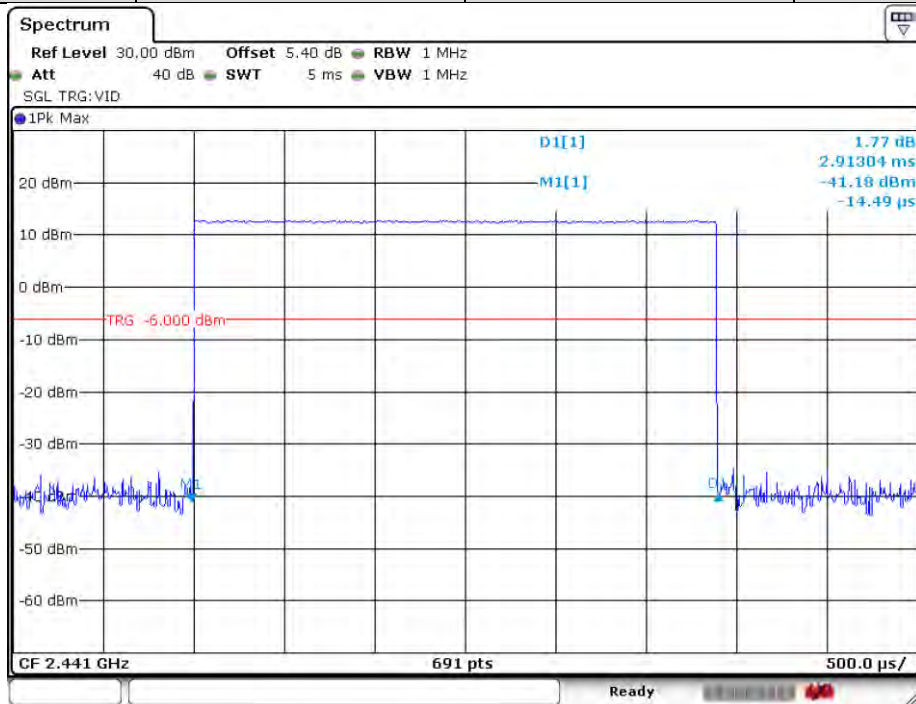
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| | | | |
|------------|-----|---------------|--------|
| Test mode: | DH3 | Test channel: | Middle |
|------------|-----|---------------|--------|



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| | | | |
|------------|-----|---------------|--------|
| Test mode: | DH5 | Test channel: | Middle |
|------------|-----|---------------|--------|



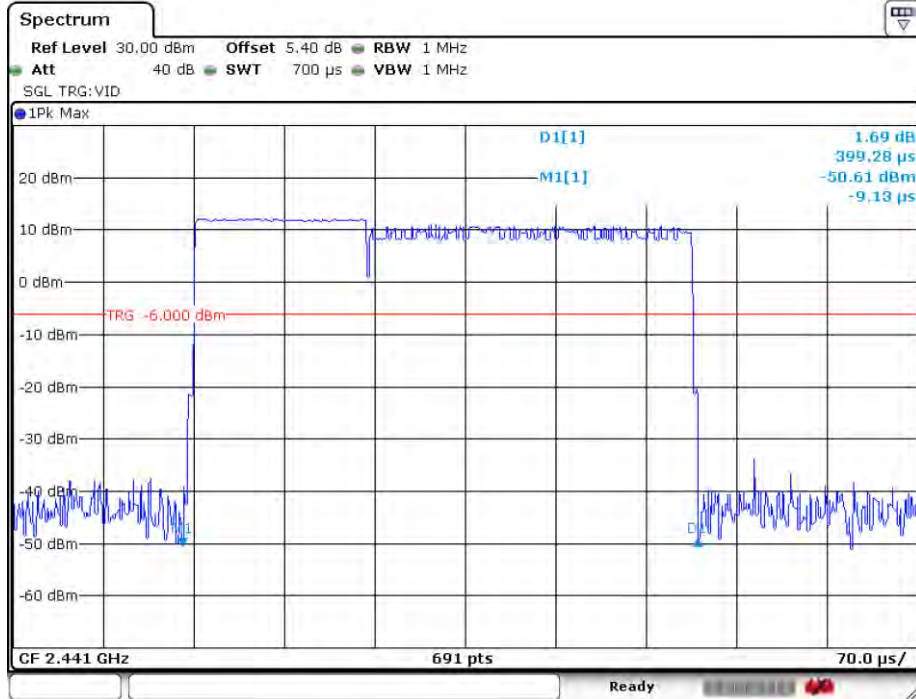
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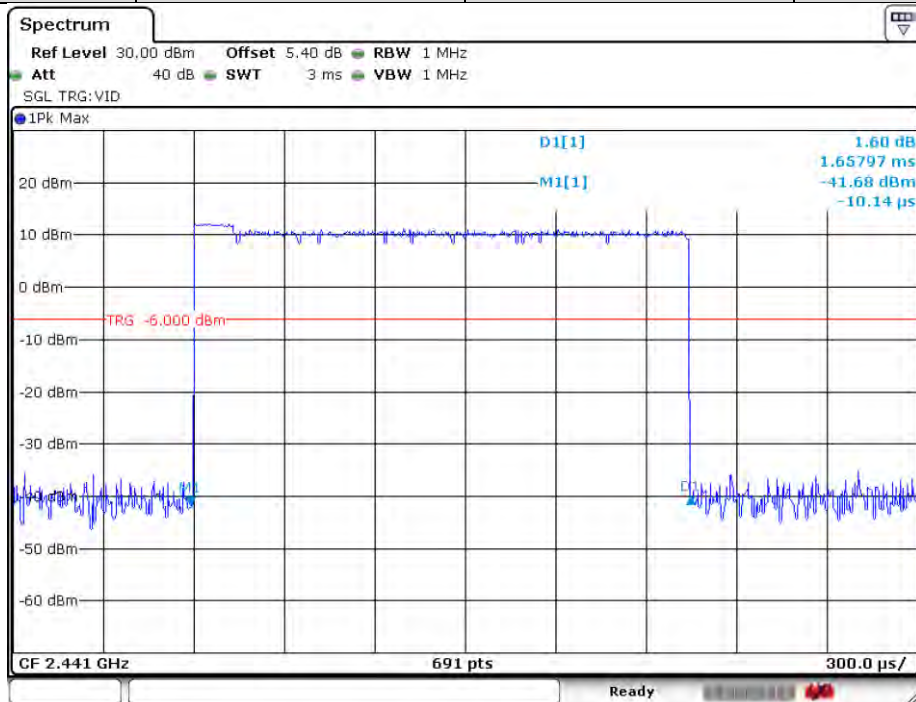
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| | | | |
|------------|-------|---------------|--------|
| Test mode: | 2-DH1 | Test channel: | Middle |
|------------|-------|---------------|--------|



Date: 27.DEC.2020 16:17:10

| | | | |
|------------|-------|---------------|--------|
| Test mode: | 2-DH3 | Test channel: | Middle |
|------------|-------|---------------|--------|



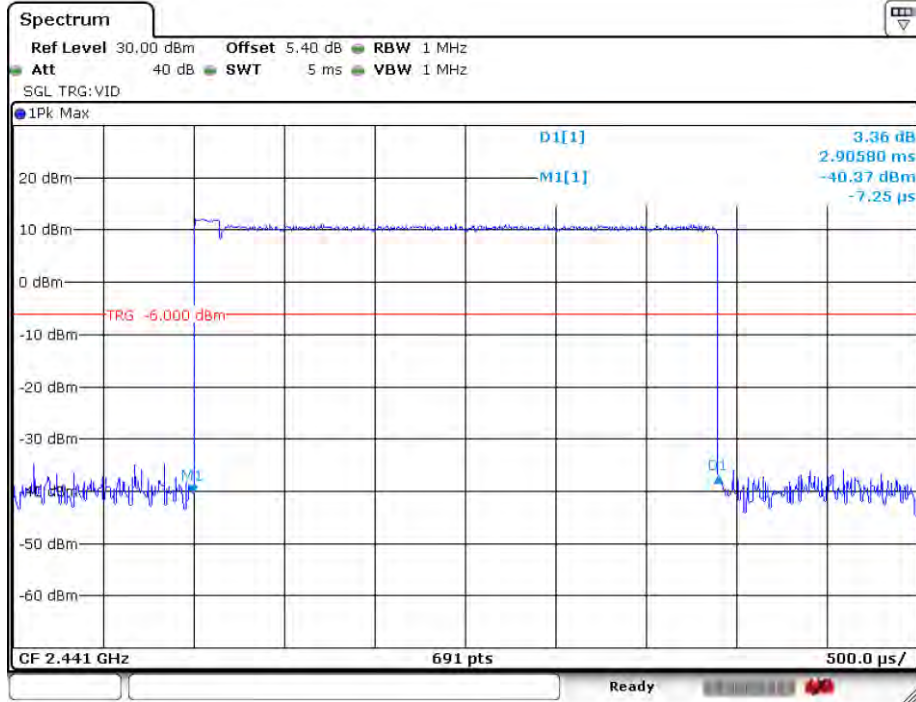
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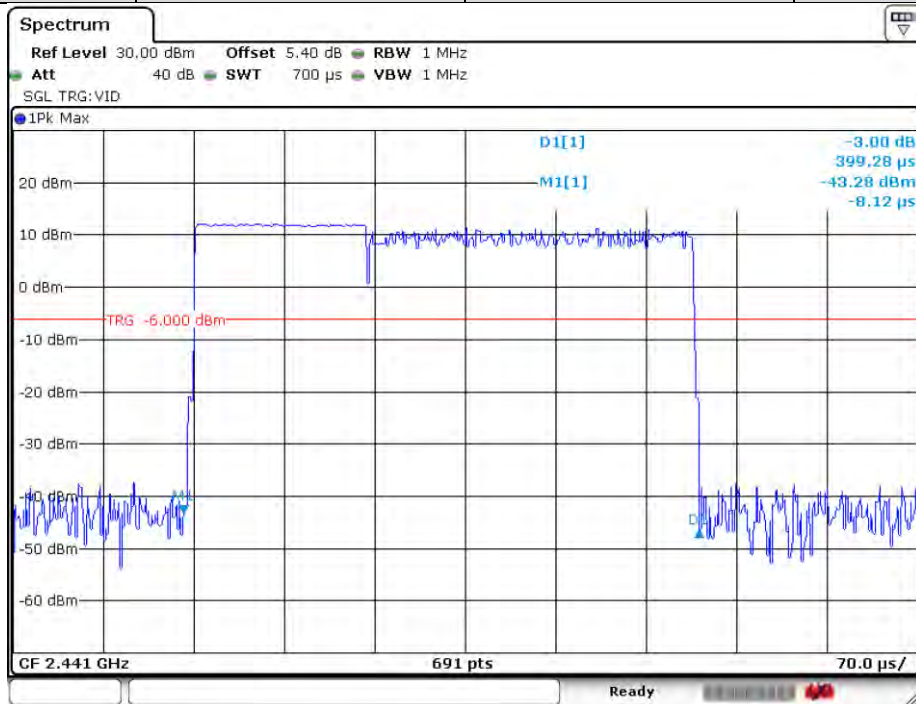
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| | | | |
|------------|-------|---------------|--------|
| Test mode: | 2-DH5 | Test channel: | Middle |
|------------|-------|---------------|--------|



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| | | | |
|------------|-------|---------------|--------|
| Test mode: | 3-DH1 | Test channel: | Middle |
|------------|-------|---------------|--------|



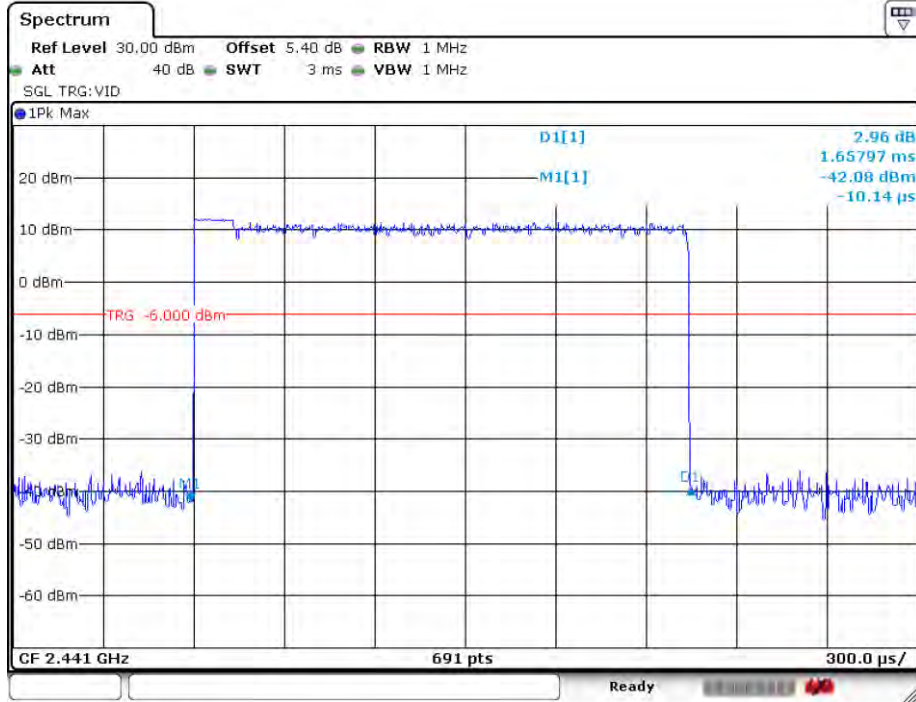
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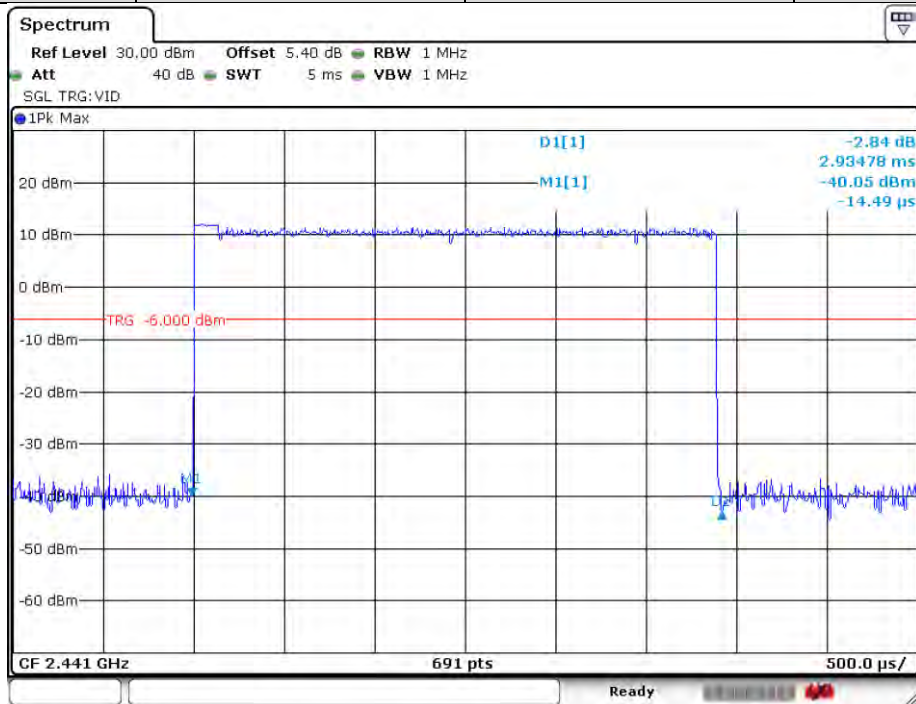
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| | | | |
|------------|-------|---------------|--------|
| Test mode: | 3-DH3 | Test channel: | Middle |
|------------|-------|---------------|--------|



Date: 27.DEC.2020 16:16:33

| | | | |
|------------|-------|---------------|--------|
| Test mode: | 3-DH5 | Test channel: | Middle |
|------------|-------|---------------|--------|



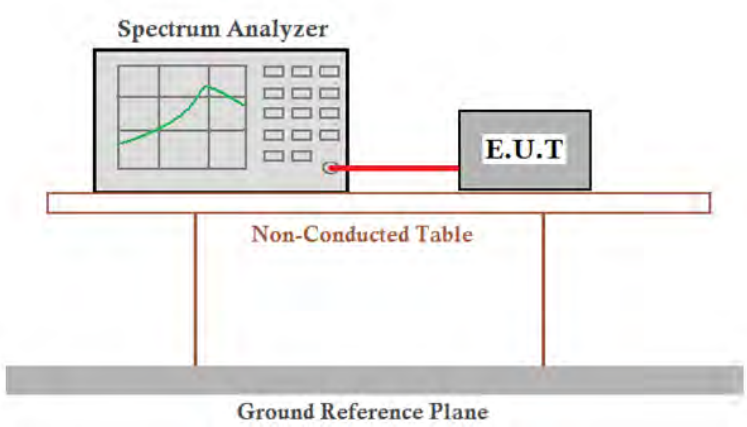
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4.9 Band-edge for RF Conducted Emissions

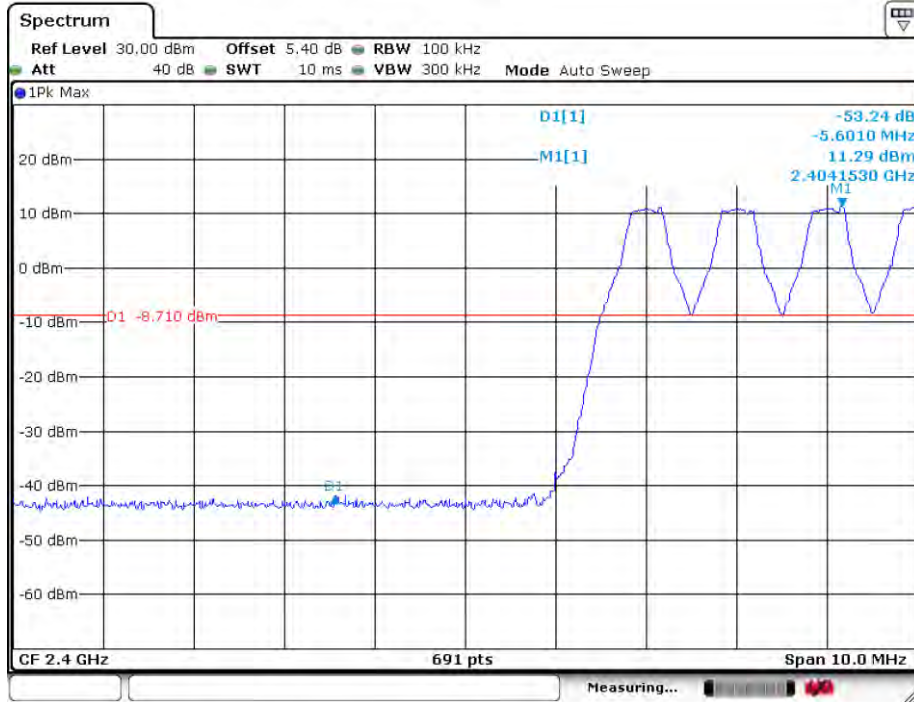
| | |
|------------------------|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) |
| Test Method: | ANSI C63.10:2013 Section 7.8.6 |
| Test Setup: |  |
| Instruments Used: | Refer to section 5.10 for details |
| Exploratory Test Mode: | Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type. |
| Final Test Mode: | Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. |
| Test Results: | Pass |



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4.9.1 Test Plots

| | | | | |
|------------|------|---------------|--------|------------|
| Test mode: | GFSK | Test channel: | Lowest | Hopping ON |
|------------|------|---------------|--------|------------|



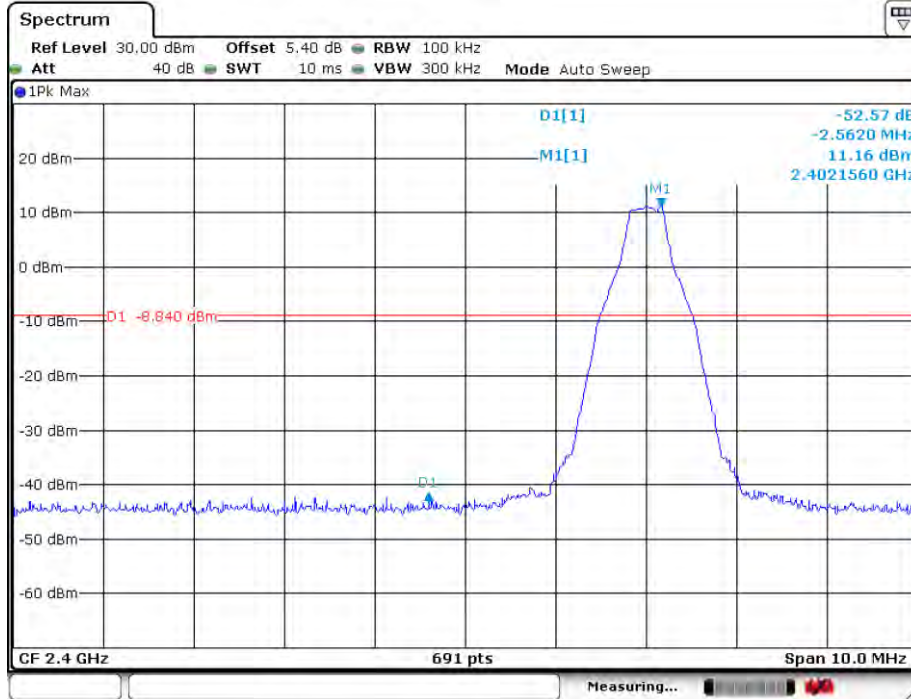
Date: 27.DEC.2020 16:04:53



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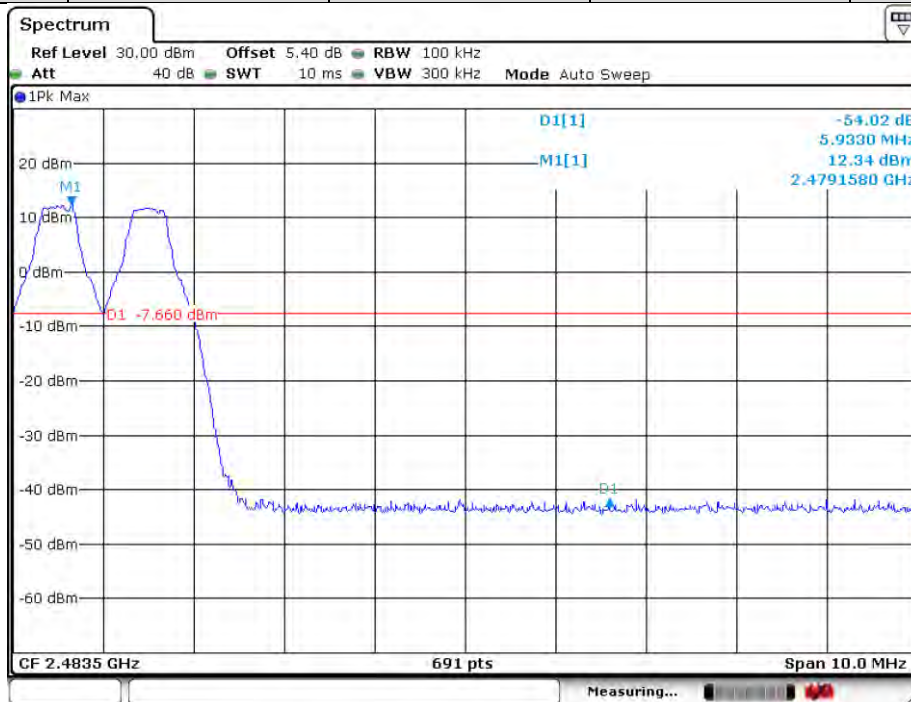
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

| | | | | |
|------------|------|---------------|--------|-------------|
| Test mode: | GFSK | Test channel: | Lowest | Hopping OFF |
|------------|------|---------------|--------|-------------|



Date: 27.DEC.2020 16:01:27

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|------------|------|---------------|---------|------------|
| Test mode: | GFSK | Test channel: | Highest | Hopping ON |
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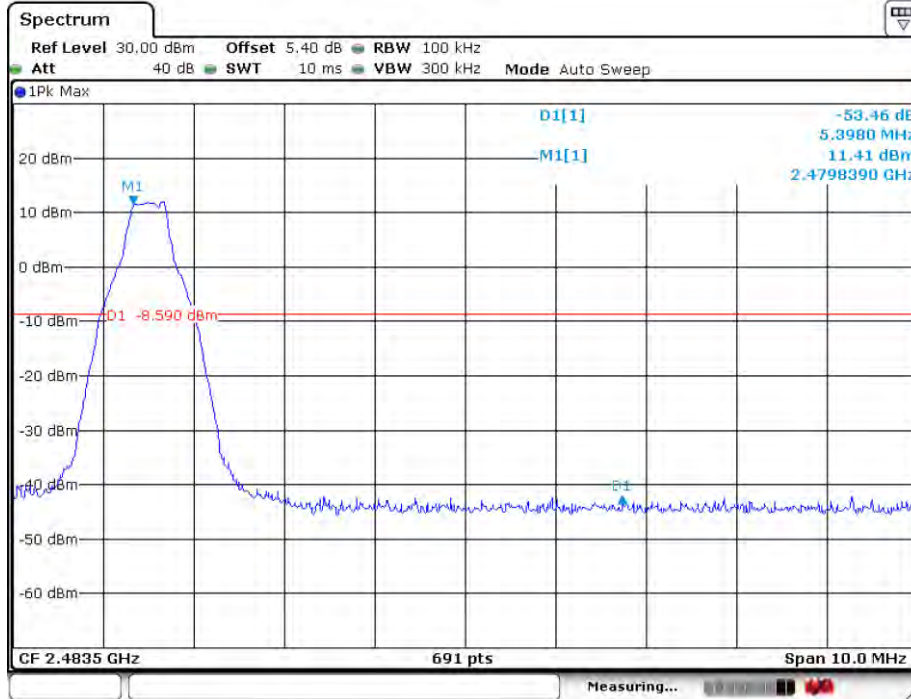


Date: 27.DEC.2020 16:06:42



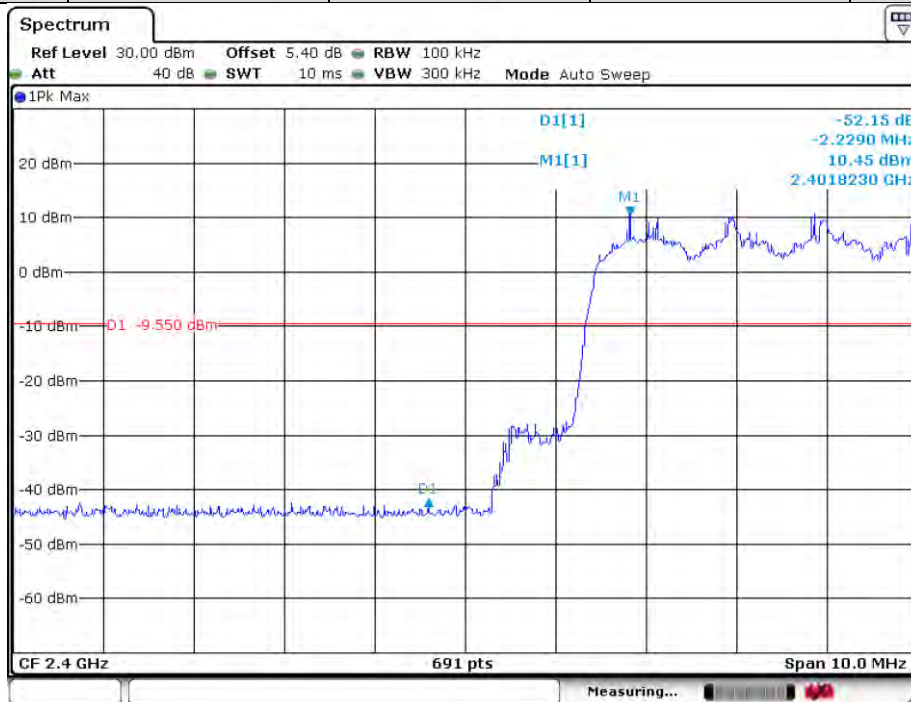
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| Test mode: | GFSK | Test channel: | Highest | Hopping OFF |
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Date: 27.DEC.2020 16:00:44

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| Test mode: | $\pi/4$ DQPSK | Test channel: | Lowest | Hopping ON |
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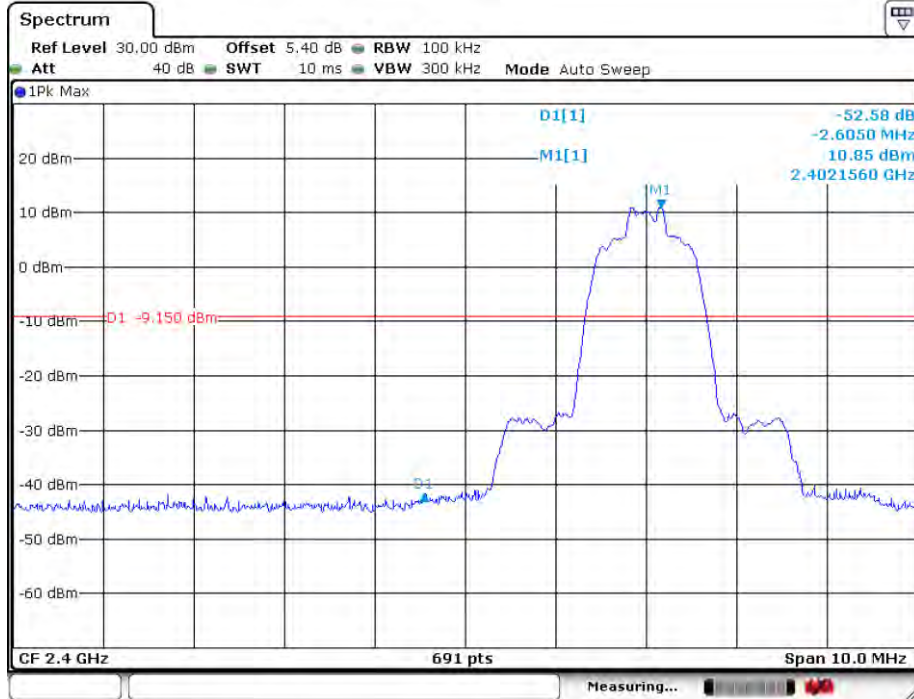
Date: 27.DEC.2020 16:08:16



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|------------|---------------|---------------|--------|-------------|
| Test mode: | $\pi/4$ DQPSK | Test channel: | Lowest | Hopping OFF |
|------------|---------------|---------------|--------|-------------|



Date: 27.DEC.2020 15:59:17

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|------------|---------------|---------------|---------|------------|
| Test mode: | $\pi/4$ DQPSK | Test channel: | Highest | Hopping ON |
|------------|---------------|---------------|---------|------------|



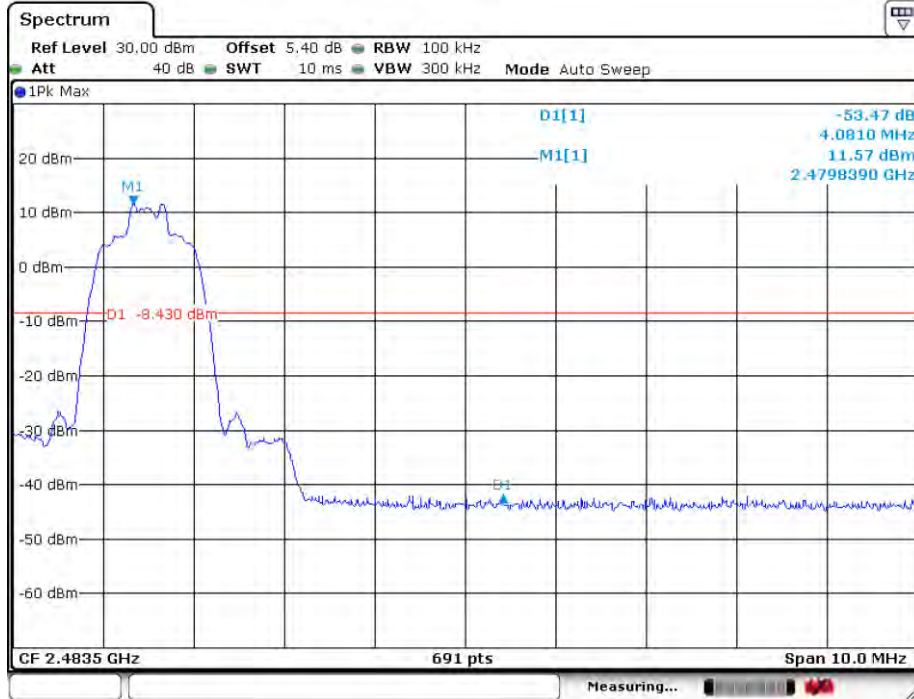
Date: 27.DEC.2020 16:07:35



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|------------|---------------|---------------|---------|-------------|
| Test mode: | $\pi/4$ DQPSK | Test channel: | Highest | Hopping OFF |
|------------|---------------|---------------|---------|-------------|



Date: 27.DEC.2020 16:00:16

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|------------|-------|---------------|--------|------------|
| Test mode: | 8DPSK | Test channel: | Lowest | Hopping ON |
|------------|-------|---------------|--------|------------|



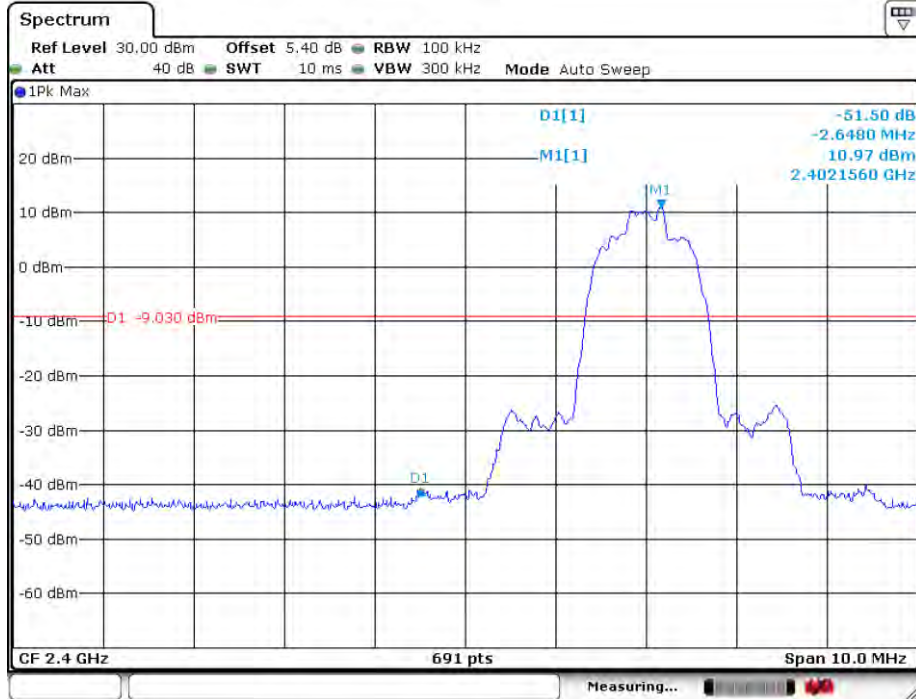
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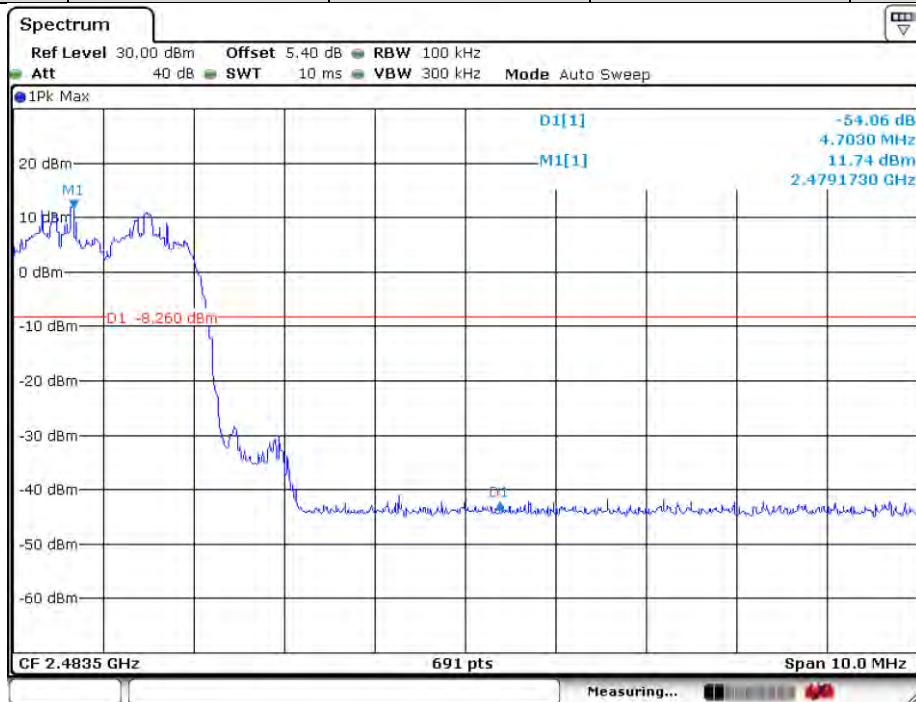
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| | | | | |
|------------|-------|---------------|--------|-------------|
| Test mode: | 8DPSK | Test channel: | Lowest | Hopping OFF |
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Date: 27.DEC.2020 15:58:22

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|------------|-------|---------------|---------|------------|
| Test mode: | 8DPSK | Test channel: | Highest | Hopping ON |
|------------|-------|---------------|---------|------------|



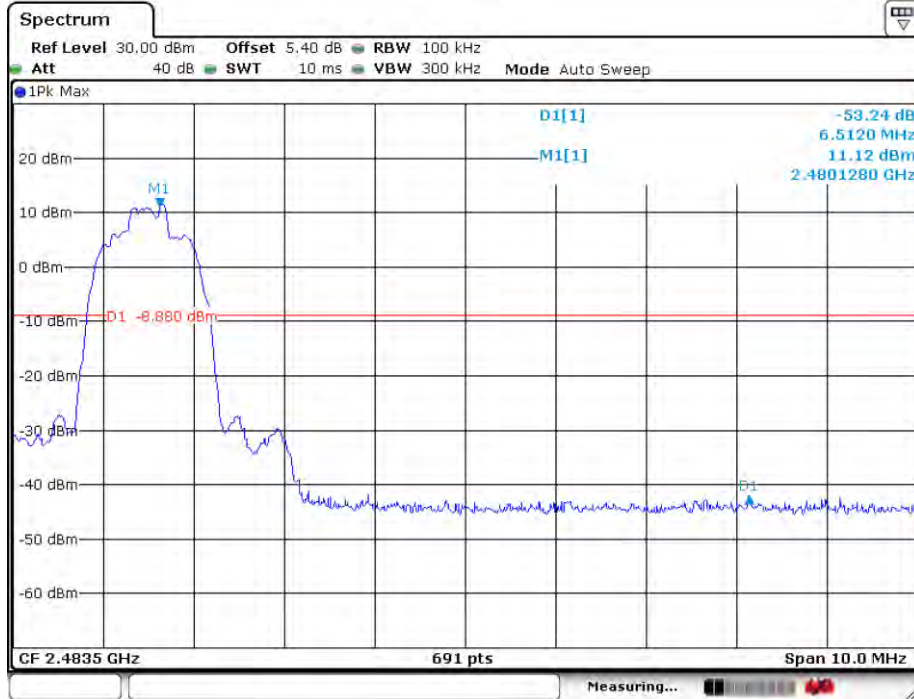
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| | | | | |
|------------|-------|---------------|---------|-------------|
| Test mode: | 8DPSK | Test channel: | Highest | Hopping OFF |
|------------|-------|---------------|---------|-------------|



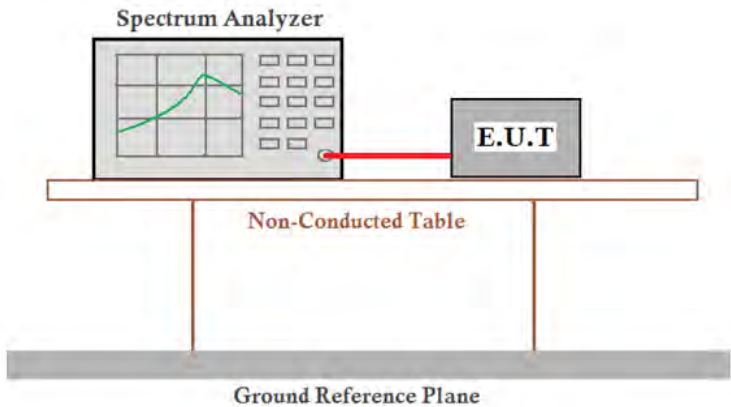
Date: 27.DEC.2020 15:57:01



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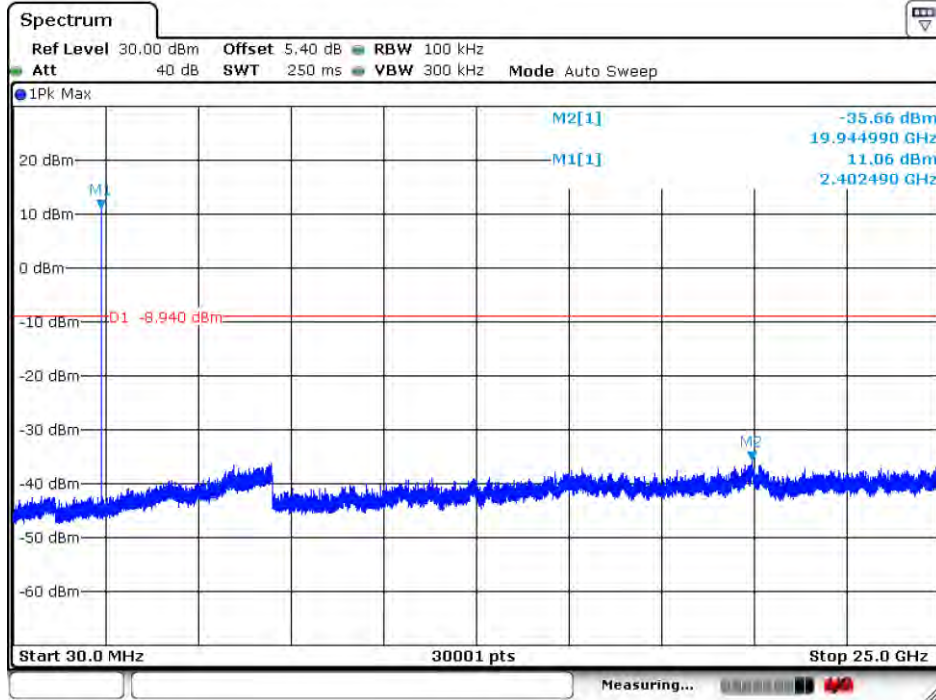
4.10 Spurious RF Conducted Emissions

| | |
|------------------------|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) |
| Test Method: | ANSI C63.10:2013 Section 7.8.8 |
| Test Setup: |  |
| Instruments Used: | Refer to section 5.10 for details |
| Exploratory Test Mode: | Non-hopping transmitting with all kind of modulation and all kind of data type. |
| Final Test Mode: | Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. |
| Test Results: | Pass |



4.10.1 Test Plots

| | | | |
|------------|------|---------------|--------|
| Test mode: | GFSK | Test channel: | Lowest |
|------------|------|---------------|--------|



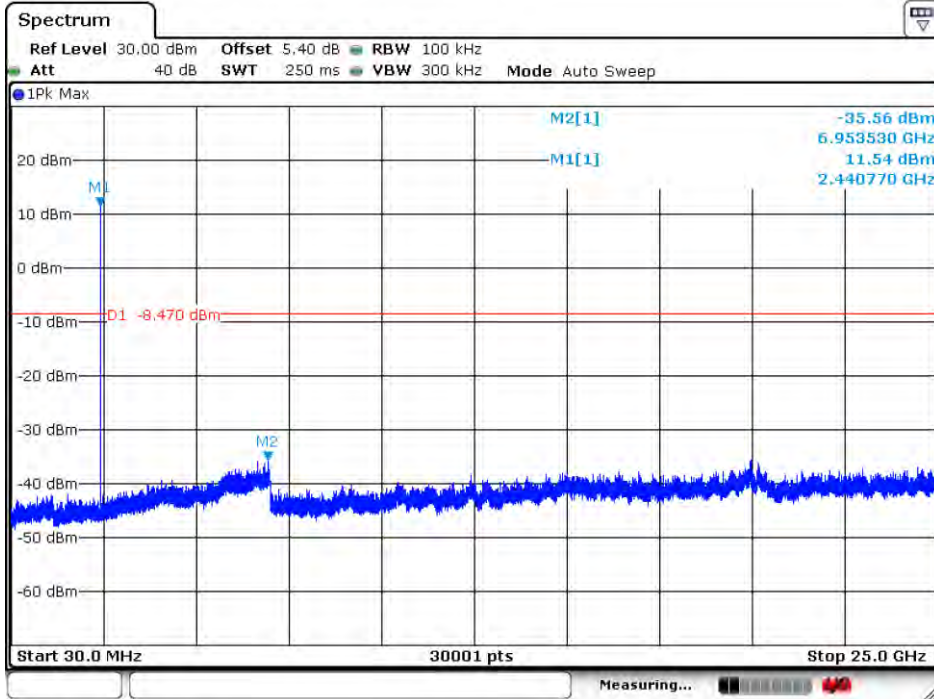
Date: 7.DEC.2020 11:47:59



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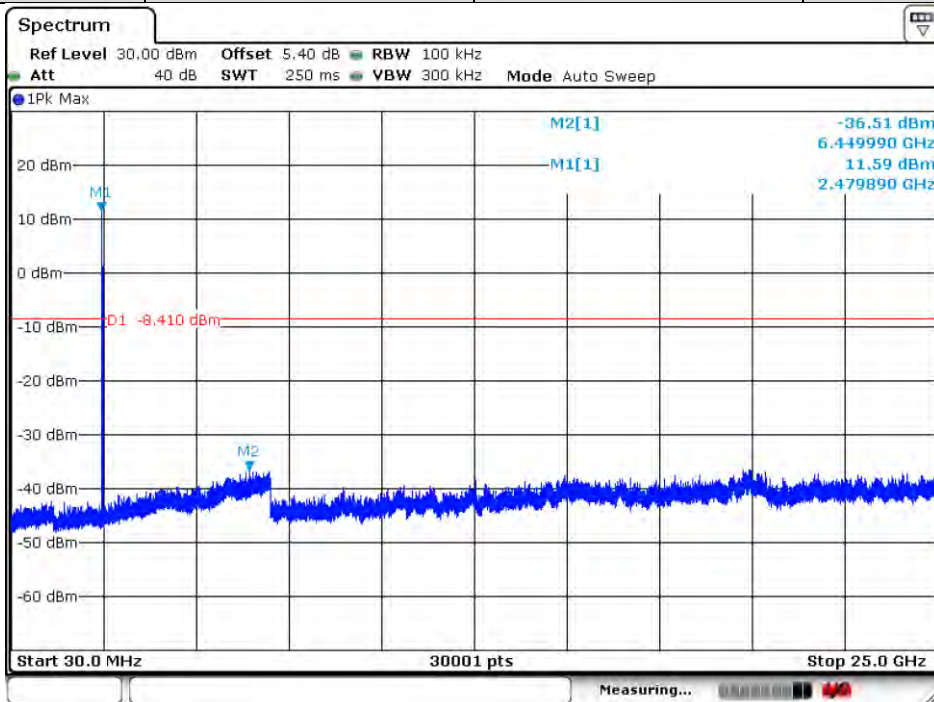
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|------------|------|---------------|--------|
| Test mode: | GFSK | Test channel: | Middle |
|------------|------|---------------|--------|



Date: 7.DEC.2020 11:49:19

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|------------|------|---------------|---------|
| Test mode: | GFSK | Test channel: | Highest |
|------------|------|---------------|---------|



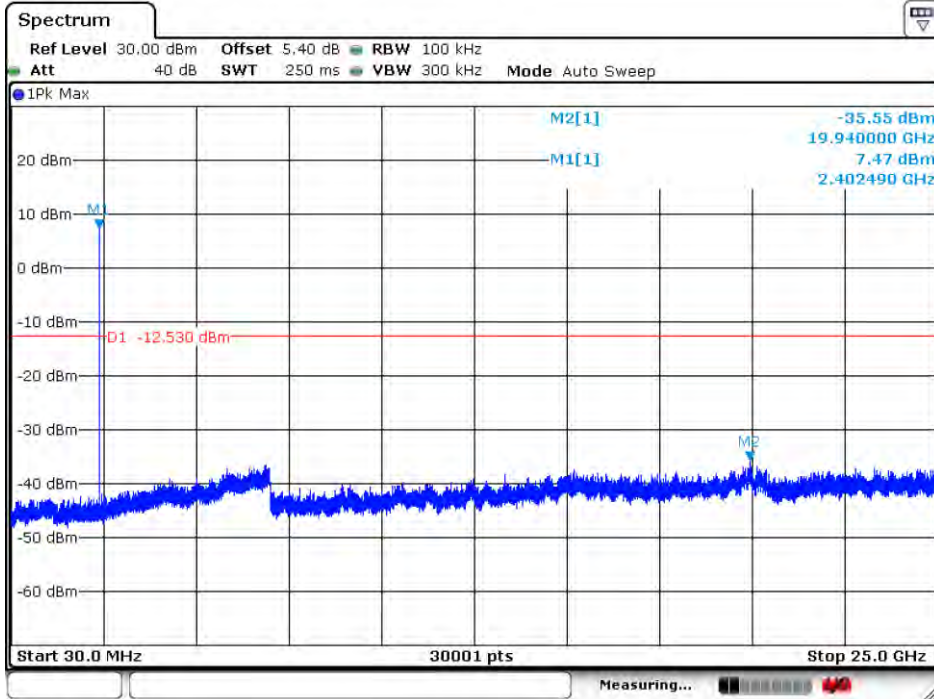
Date: 7.DEC.2020 11:50:14



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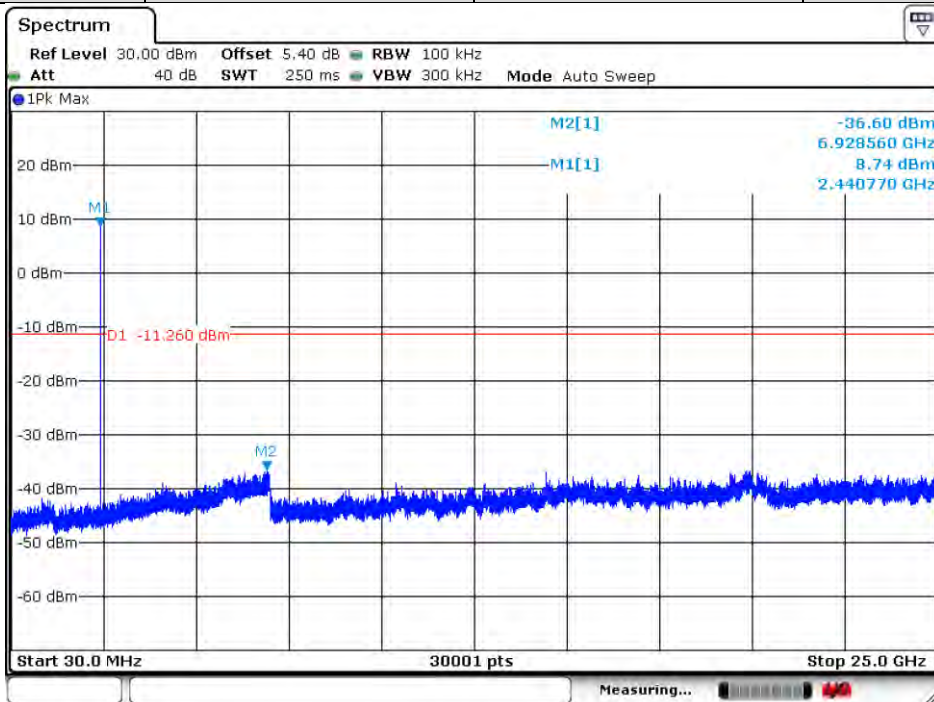
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| | | | |
|------------|--------------|---------------|--------|
| Test mode: | $\pi/4$ QPSK | Test channel: | Lowest |
|------------|--------------|---------------|--------|



Date: 7.DEC.2020 11:46:06

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|------------|--------------|---------------|--------|
| Test mode: | $\pi/4$ QPSK | Test channel: | Middle |
|------------|--------------|---------------|--------|



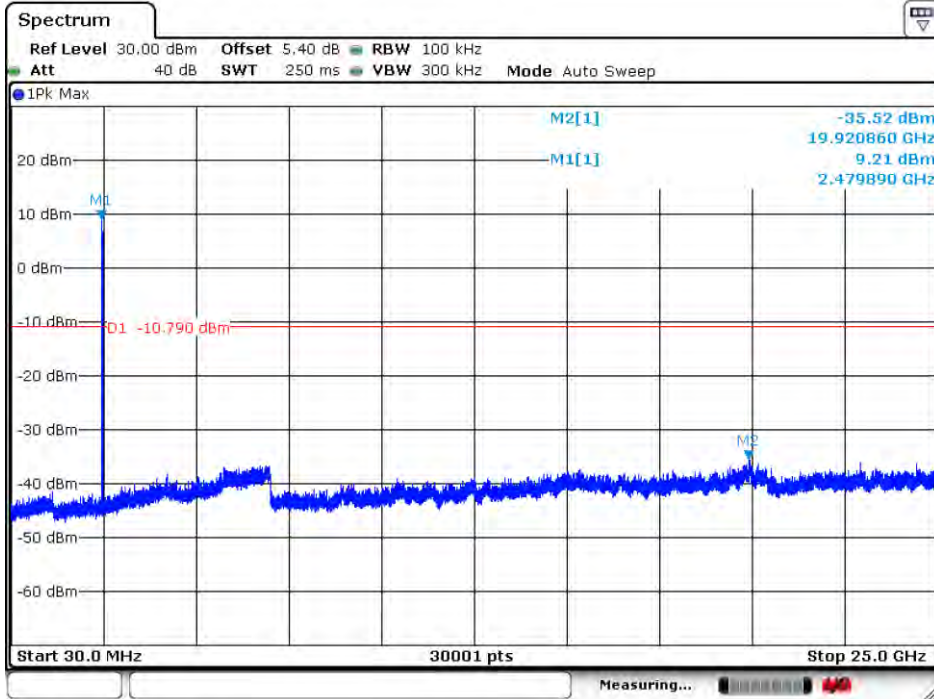
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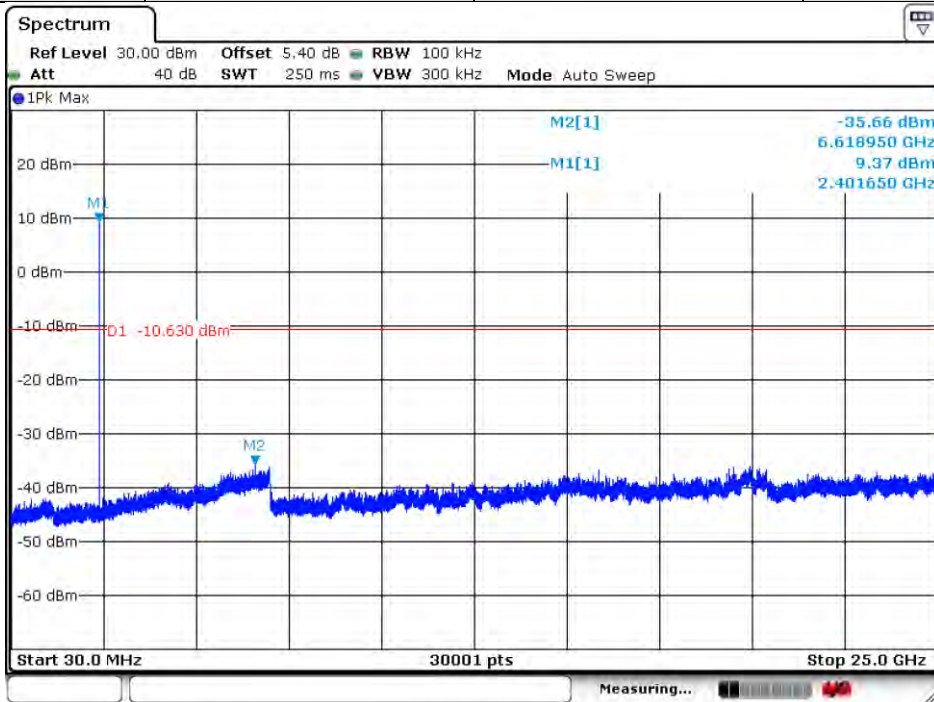
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| | | | |
|------------|---------------|---------------|---------|
| Test mode: | $\pi/4$ DQPSK | Test channel: | Highest |
|------------|---------------|---------------|---------|



Date: 7.DEC.2020 11:44:15

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|------------|-------|---------------|--------|
| Test mode: | 8DPSK | Test channel: | Lowest |
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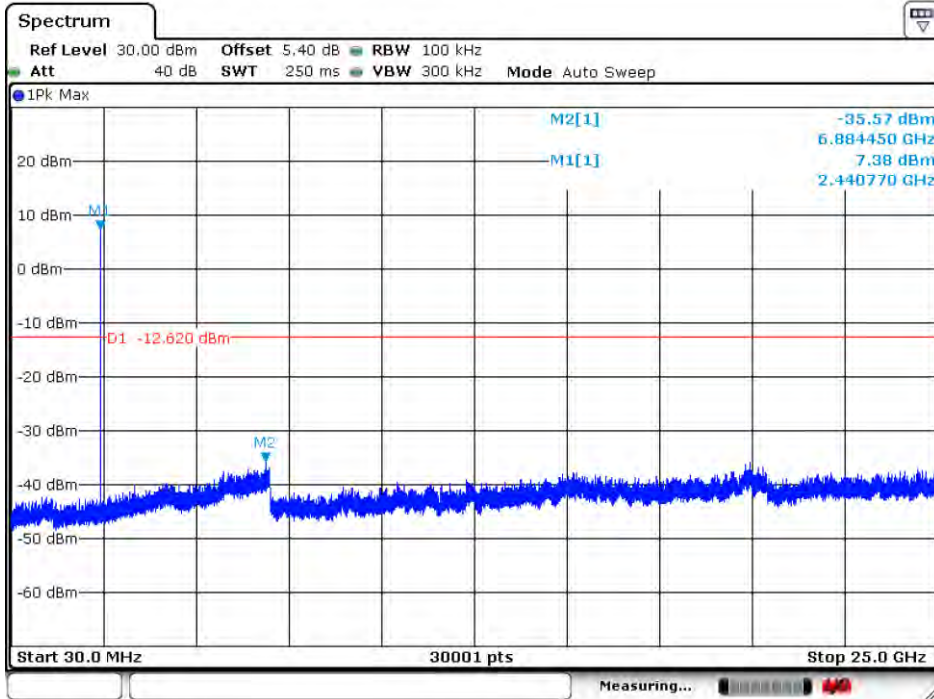
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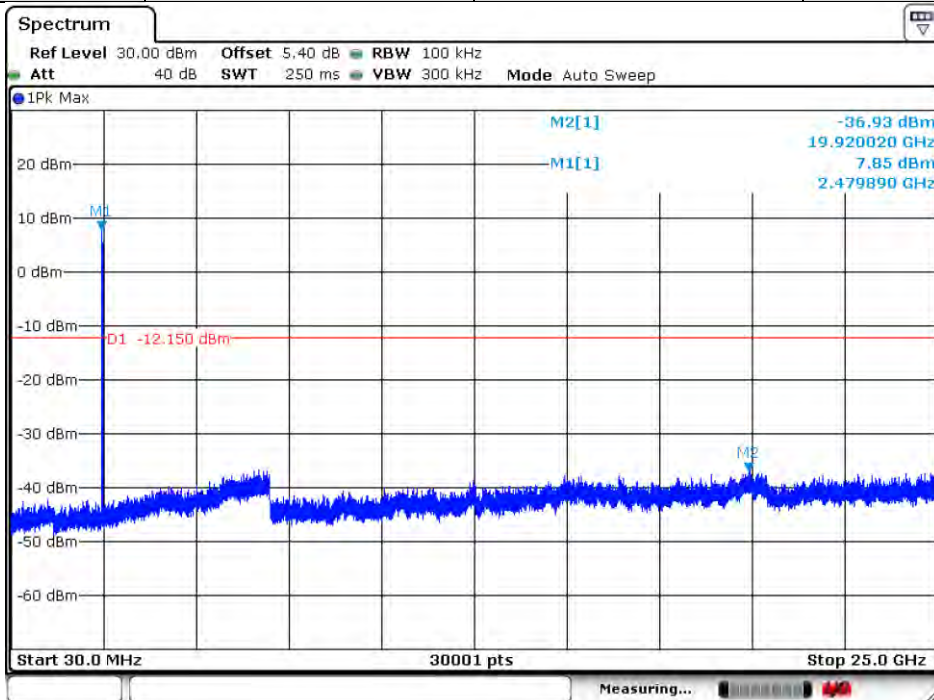
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| | | | |
|------------|-------|---------------|--------|
| Test mode: | 8DPSK | Test channel: | Middle |
|------------|-------|---------------|--------|



Date: 7.DEC.2020 11:40:35

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|------------|-------|---------------|---------|
| Test mode: | 8DPSK | Test channel: | Highest |
|------------|-------|---------------|---------|



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Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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4.11 Radiated Spurious Emissions

| | | | | | |
|-------------------|---|----------------------------------|----------------|------------|--------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205 | | | | |
| Test Method: | ANSI C63.10 :2013 Section 11.12 | | | | |
| Test Site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | |
| Receiver Setup: | Frequency | Detector | RBW | VBW | Remark |
| | 0.009MHz-0.090MHz | Peak | 10kHz | 30kHz | Peak |
| | 0.009MHz-0.090MHz | Average | 10kHz | 30kHz | Average |
| | 0.090MHz-0.110MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| | 0.110MHz-0.490MHz | Peak | 10kHz | 30kHz | Peak |
| | 0.110MHz-0.490MHz | Average | 10kHz | 30kHz | Average |
| | 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| | 30MHz-1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak | |
| | Peak | 1MHz | 10Hz | Average | |
| Limit: | Frequency | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) |
| | 0.009MHz-0.490MHz | 2400/F(kHz) | - | - | 300 |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | - | - | 30 |
| | 1.705MHz-30MHz | 30 | - | - | 30 |
| | 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 |
| | 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 |
| | 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 |
| | 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 |
| | Above 1GHz | 500 | 54.0 | Average | 3 |
| | Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. | | | | |



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| | |
|-------------------------------|--|
| <p>Test Setup:</p> | |
| | |
| <p>Figure 1. Below 30MHz</p> | <p>Figure 2. 30MHz to 1GHz</p> |
| | |
| <p>Figure 3. Above 1 GHz</p> | |
| <p>Test Procedure:</p> | <ol style="list-style-type: none"> 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. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation 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. 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. Use the following spectrum analyzer settings: <ol style="list-style-type: none"> Span shall wide enough to fully capture the emission being measured; Set RBW=100 kHz for $f < 1$ GHz, RBW=1MHz for $f > 1$GHz ; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak For average measurement: use duty cycle correction factor method per 15.35(c). |



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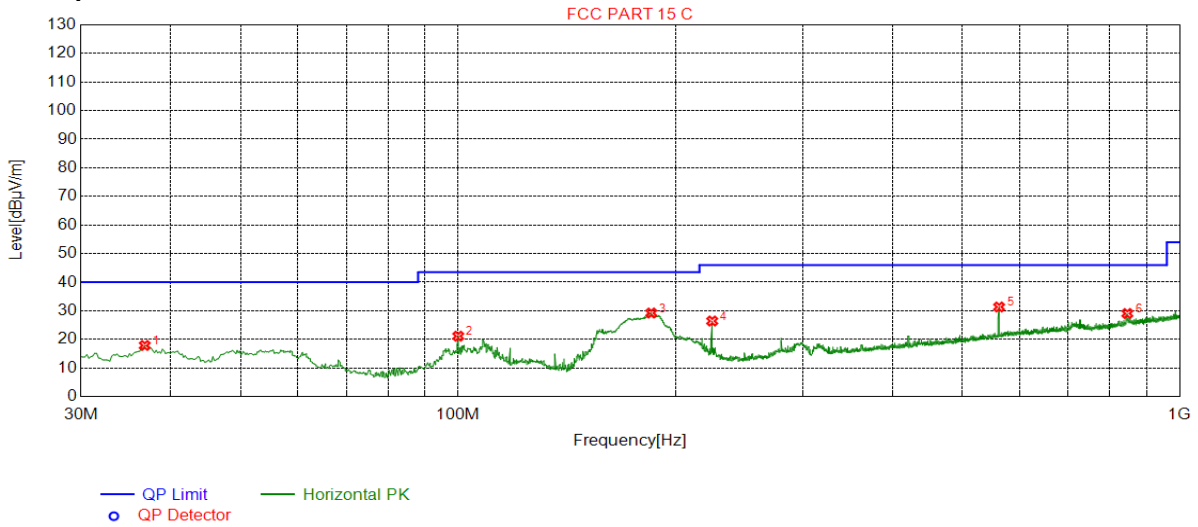
| | |
|-------------------------------|---|
| | <p>Duty cycle = On time/100 milliseconds On time = $N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$ Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle)</p> <p>f. 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.</p> <p>g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>h. 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.</p> <p>i. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>j. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>k. Repeat above procedures until all frequencies measured was complete.</p> |
| <p>Exploratory Test Mode:</p> | <p>Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.</p> |
| <p>Final Test Mode:</p> | <p>Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.</p> |
| <p>Instruments Used:</p> | <p>Refer to section 5.10 for details</p> |
| <p>Test Results:</p> | <p>Pass</p> |



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4.11.1 Radiated Emission below 1GHz
4.11.1.1 Charge + Transmitting

Test Graph



Suspected List

| Suspected List | | | | | | | |
|----------------|-------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 36.7914 | 17.89 | 40.00 | 22.11 | 170 | 264 | Horizontal |
| 2 | 100.0480 | 21.14 | 43.50 | 22.36 | 132 | 123 | Horizontal |
| 3 | 185.2310 | 29.23 | 43.50 | 14.27 | 216 | 261 | Horizontal |
| 4 | 225.0090 | 26.43 | 46.00 | 19.57 | 138 | 235 | Horizontal |
| 5 | 562.0544 | 31.35 | 46.00 | 14.65 | 110 | 44 | Horizontal |
| 6 | 846.3213 | 29.07 | 46.00 | 16.93 | 187 | 340 | Horizontal |

Final Data List

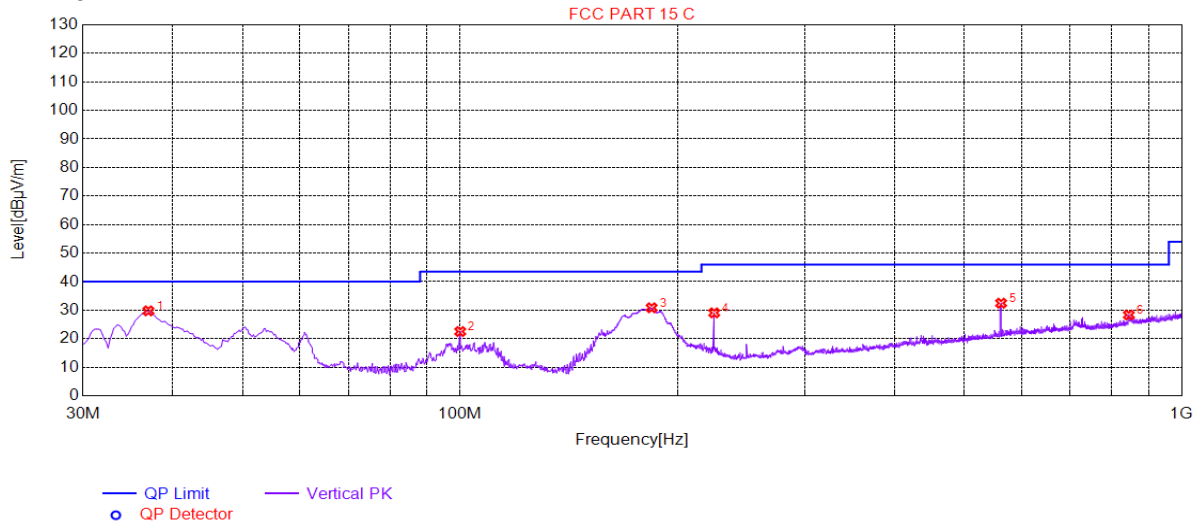


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Test Graph



Suspected List

| Suspected List | | | | | | | |
|----------------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 36.9854 | 29.79 | 40.00 | 10.21 | 225 | 346 | Vertical |
| 2 | 100.0480 | 22.55 | 43.50 | 20.95 | 173 | 76 | Vertical |
| 3 | 184.2609 | 30.87 | 43.50 | 12.63 | 226 | 360 | Vertical |
| 4 | 225.0090 | 29.09 | 46.00 | 16.91 | 157 | 67 | Vertical |
| 5 | 562.0544 | 32.48 | 46.00 | 13.52 | 272 | 346 | Vertical |
| 6 | 844.9630 | 28.35 | 46.00 | 17.65 | 241 | 120 | Vertical |

Final Data List



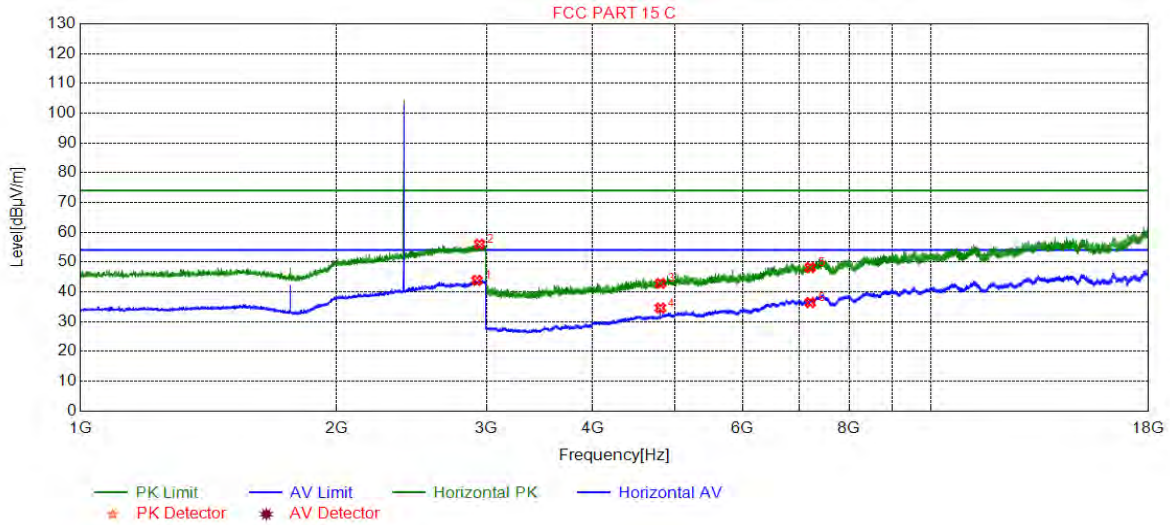
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4.11.2 Transmitter Emission above 1GHz

4.11.2.1 GFSK_Channel 0

Test Graph



Suspected List

| Suspected List | | | | | | | | |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2923.98 | 43.83 | 10.61 | 54.00 | 10.17 | 181 | 164 | Horizontal |
| 2 | 2943.98 | 55.98 | 10.61 | 74.00 | 18.02 | 249 | 92 | Horizontal |
| 3 | 4804.00 | 42.79 | -17.18 | 74.00 | 31.21 | 183 | 268 | Horizontal |
| 4 | 4804.00 | 34.54 | -17.18 | 54.00 | 19.46 | 189 | 286 | Horizontal |
| 5 | 7206.00 | 48.13 | -9.48 | 74.00 | 25.87 | 155 | 323 | Horizontal |
| 6 | 7206.00 | 36.35 | -9.48 | 54.00 | 17.65 | 185 | 34 | Horizontal |

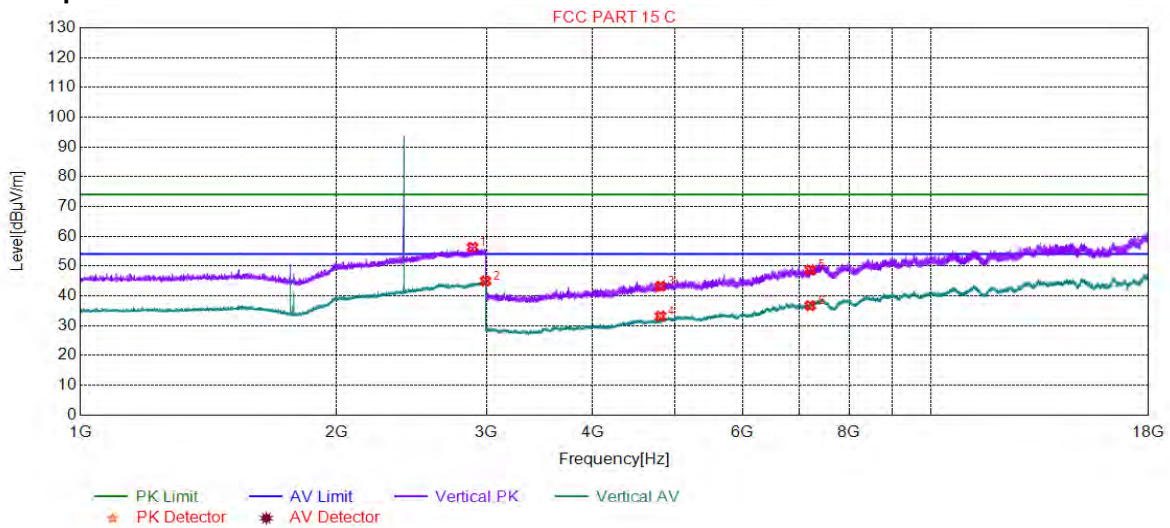
Final Data List



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4.11.2.2 GFSK_Channel 0

Test Graph



Suspected List

| Suspected List | | | | | | | | |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2889.97 | 56.31 | 10.41 | 74.00 | 17.69 | 209 | 272 | Vertical |
| 2 | 2992.99 | 44.96 | 10.64 | 54.00 | 9.04 | 158 | 225 | Vertical |
| 3 | 4804.00 | 43.18 | -17.18 | 74.00 | 30.82 | 290 | 334 | Vertical |
| 4 | 4804.00 | 33.15 | -17.18 | 54.00 | 20.85 | 156 | 275 | Vertical |
| 5 | 7206.00 | 48.69 | -9.48 | 74.00 | 25.31 | 168 | 275 | Vertical |
| 6 | 7206.00 | 36.67 | -9.48 | 54.00 | 17.33 | 235 | 54 | Vertical |

Final Data List

| Final Data List | | | | | | | | |
|-----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2889.97 | 56.31 | 10.41 | 74.00 | 17.69 | 209 | 272 | Vertical |
| 2 | 2992.99 | 44.96 | 10.64 | 54.00 | 9.04 | 158 | 225 | Vertical |
| 3 | 4804.00 | 43.18 | -17.18 | 74.00 | 30.82 | 290 | 334 | Vertical |
| 4 | 4804.00 | 33.15 | -17.18 | 54.00 | 20.85 | 156 | 275 | Vertical |
| 5 | 7206.00 | 48.69 | -9.48 | 74.00 | 25.31 | 168 | 275 | Vertical |
| 6 | 7206.00 | 36.67 | -9.48 | 54.00 | 17.33 | 235 | 54 | Vertical |

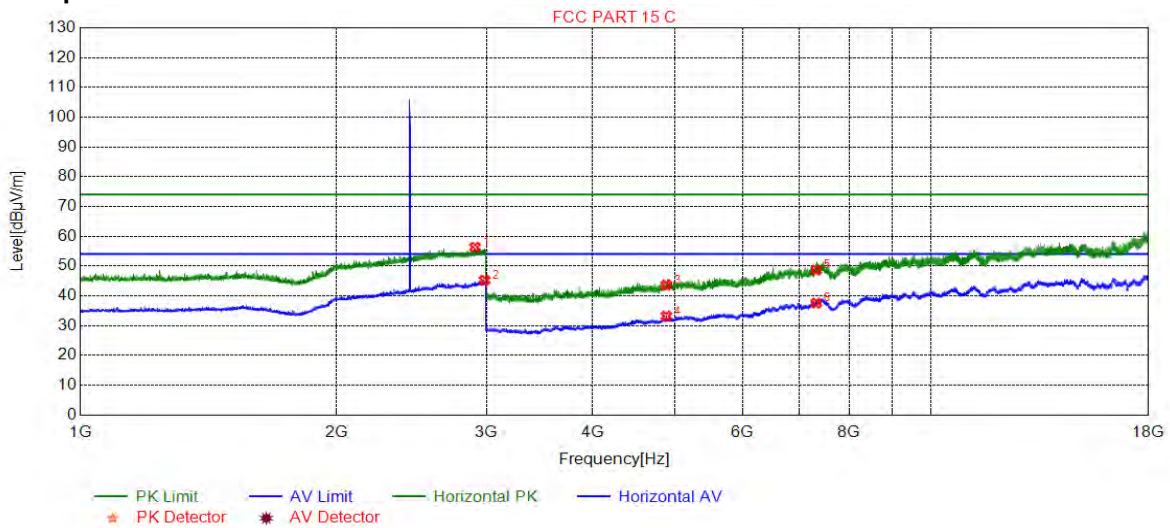


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4.11.2.3 GFSK_Channel 39

Test Graph



Suspected List

| Suspected List | | | | | | | | |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2908.47 | 56.29 | 10.48 | 74.00 | 17.71 | 104 | 130 | Horizontal |
| 2 | 2985.49 | 45.23 | 10.60 | 54.00 | 8.77 | 190 | 345 | Horizontal |
| 3 | 4882.00 | 43.61 | -16.80 | 74.00 | 30.39 | 190 | 282 | Horizontal |
| 4 | 4882.00 | 33.16 | -16.80 | 54.00 | 20.84 | 243 | 325 | Horizontal |
| 5 | 7323.00 | 48.62 | -9.27 | 74.00 | 25.38 | 210 | 38 | Horizontal |
| 6 | 7323.00 | 37.51 | -9.27 | 54.00 | 16.49 | 224 | 198 | Horizontal |

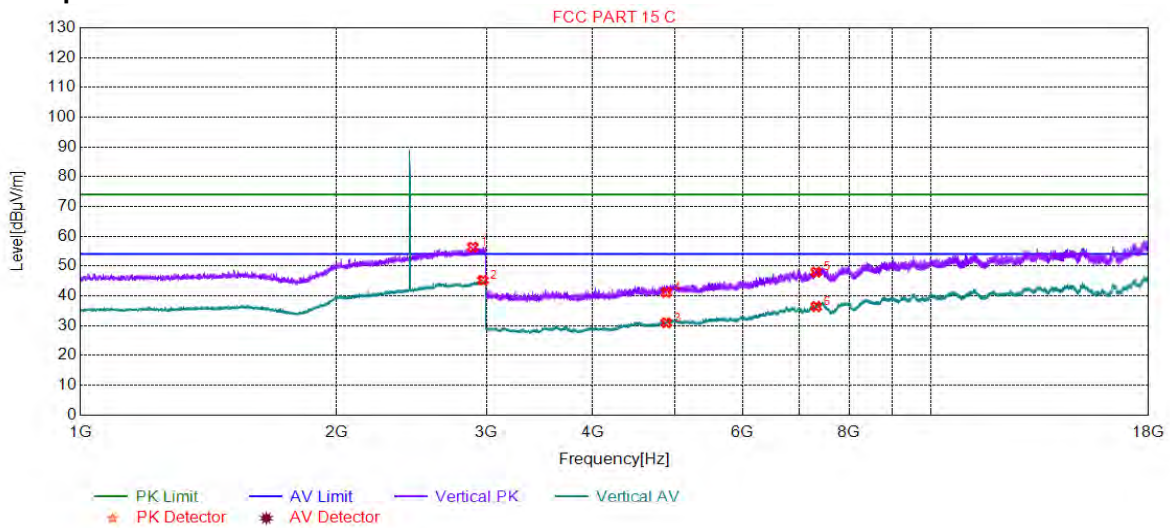
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4.11.2.4 GFSK_Channel 39

Test Graph



Suspected List

| Suspected List | | | | | | | | |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2891.47 | 56.33 | 10.41 | 74.00 | 17.67 | 258 | 326 | Vertical |
| 2 | 2972.49 | 45.22 | 10.60 | 54.00 | 8.78 | 227 | 263 | Vertical |
| 3 | 4882.00 | 30.96 | -16.80 | 54.00 | 23.04 | 185 | 118 | Vertical |
| 4 | 4882.00 | 41.11 | -16.80 | 74.00 | 32.89 | 271 | 118 | Vertical |
| 5 | 7323.00 | 47.97 | -9.27 | 74.00 | 26.03 | 233 | 221 | Vertical |
| 6 | 7323.00 | 36.37 | -9.27 | 54.00 | 17.63 | 286 | 258 | Vertical |

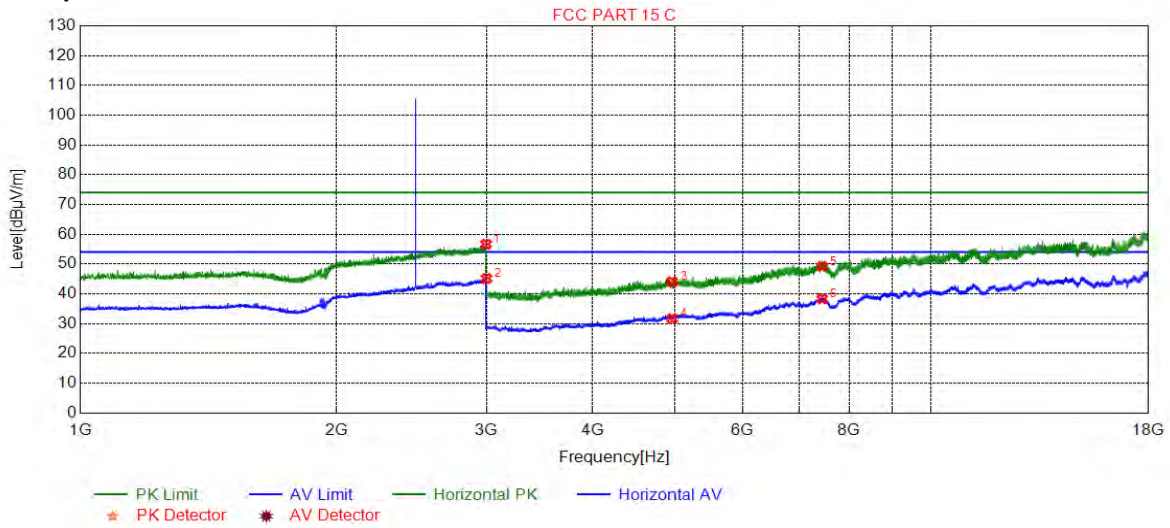
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4.11.2.5 GFSK_Channel 78

Test Graph



Suspected List

| Suspected List | | | | | | | | |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2997.49 | 56.65 | 10.74 | 74.00 | 17.35 | 233 | 301 | Horizontal |
| 2 | 3000.00 | 45.12 | 10.78 | 54.00 | 8.88 | 144 | 242 | Horizontal |
| 3 | 4960.00 | 44.05 | -16.28 | 74.00 | 29.95 | 249 | 169 | Horizontal |
| 4 | 4960.00 | 31.63 | -16.28 | 54.00 | 22.37 | 244 | 290 | Horizontal |
| 5 | 7440.00 | 49.19 | -8.83 | 74.00 | 24.81 | 187 | 290 | Horizontal |
| 6 | 7440.00 | 38.33 | -8.83 | 54.00 | 15.67 | 192 | 268 | Horizontal |

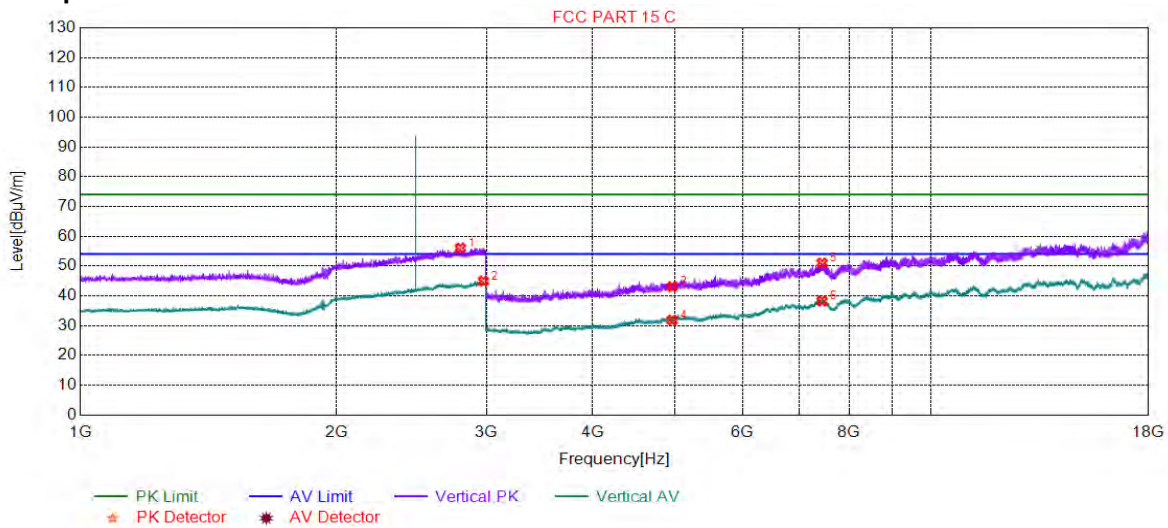
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4.11.2.6 GFSK_Channel 78

Test Graph



Suspected List

| Suspected List | | | | | | | | |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2796.44 | 56.02 | 9.90 | 74.00 | 17.98 | 201 | 283 | Vertical |
| 2 | 2975.99 | 44.92 | 10.57 | 54.00 | 9.08 | 211 | 192 | Vertical |
| 3 | 4960.00 | 43.05 | -16.28 | 74.00 | 30.95 | 219 | 120 | Vertical |
| 4 | 4960.00 | 31.82 | -16.28 | 54.00 | 22.18 | 215 | 50 | Vertical |
| 5 | 7440.00 | 50.99 | -8.83 | 74.00 | 23.01 | 169 | 50 | Vertical |
| 6 | 7440.00 | 38.21 | -8.83 | 54.00 | 15.79 | 180 | 192 | Vertical |

Final Data List

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Pre-amplifier Factor}$$

2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) As shown in this section, 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. So, only the peak measurements were shown in the report.

4) All Modes have been tested, but only the worst case data displayed in this report.



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4.12 Restricted bands around fundamental frequency

| | | | |
|-------------------|--|----------------|---------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205 | | |
| Test Method: | ANSI C63.10: 2013 | | |
| Test Site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | |
| Limit: | Frequency | Limit (dBuV/m) | Remark |
| | 30MHz-88MHz | 40.0 | Quasi-peak |
| | 88MHz-216MHz | 43.5 | Quasi-peak |
| | 216MHz-960MHz | 46.0 | Quasi-peak |
| | 960MHz-1GHz | 54.0 | Quasi-peak |
| Above 1GHz | | 54.0 | Average Value |
| | | 74.0 | Peak Value |
| Test Setup: | | | |

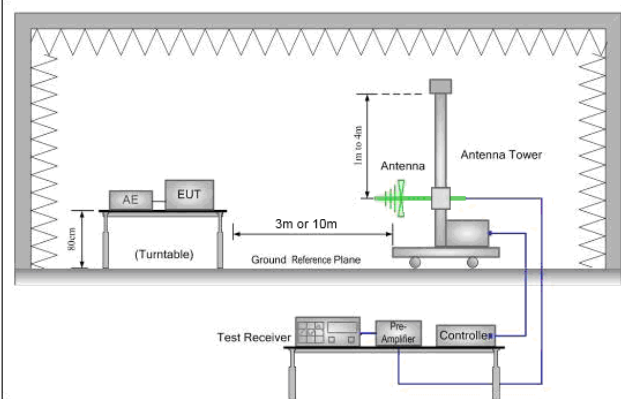


Figure 1. 30MHz to 1GHz

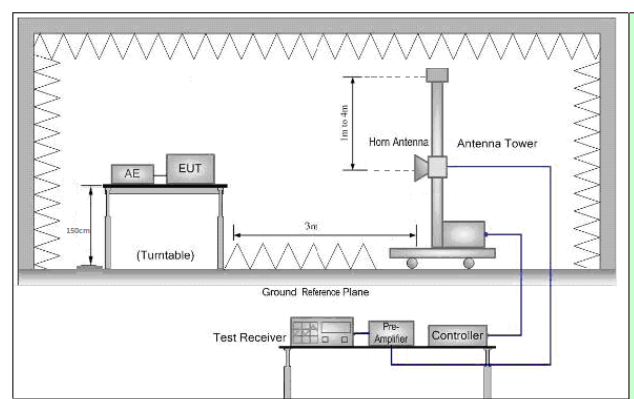


Figure 2. Above 1 GHz



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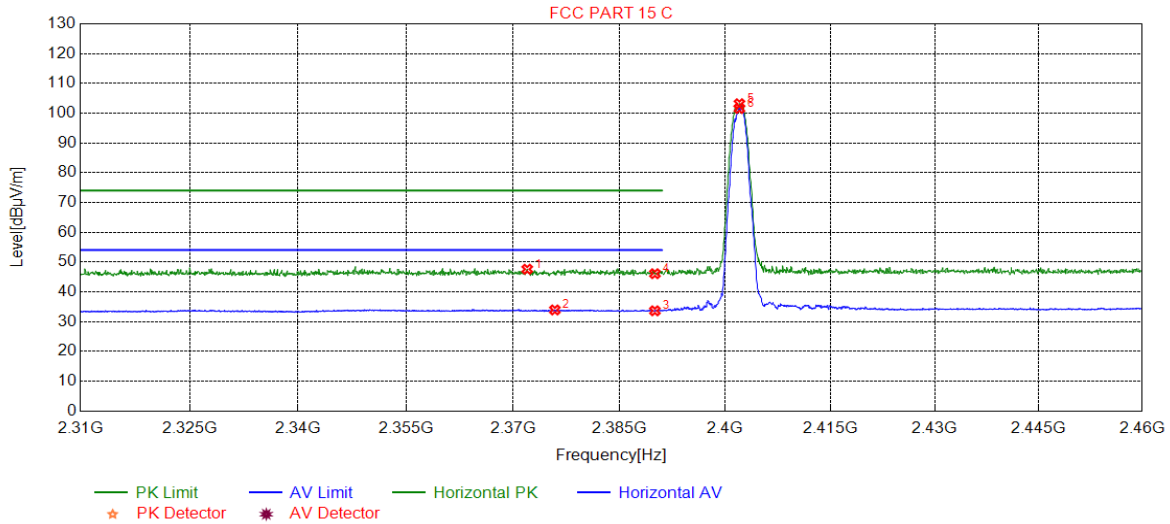
| | |
|-------------------------------|---|
| <p>Test Procedure:</p> | <ol style="list-style-type: none"> a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position 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 semi-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 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest 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 worse case. j. Repeat above procedures until all frequencies measured was complete. |
| <p>Exploratory Test Mode:</p> | <p>Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.</p> |
| <p>Final Test Mode:</p> | <p>Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode, Only the worst case is recorded in the report.</p> |
| <p>Instruments Used:</p> | <p>Refer to section 5.10 for details</p> |
| <p>Test Results:</p> | <p>Pass</p> |



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4.12.1 Test Plots
4.12.1.1 Worst Case Mode (GFSK(DH5))
4.12.1.2 GFSK_Channel 0

Test Graph



Suspected List

| Suspected List | | | | | | | | |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2371.98 | 47.58 | 8.03 | 74.00 | 26.42 | 159 | 356 | Horizontal |
| 2 | 2375.88 | 33.90 | 7.95 | 54.00 | 20.10 | 162 | 299 | Horizontal |
| 3 | 2390.00 | 33.61 | 7.98 | 54.00 | 20.39 | 223 | 341 | Horizontal |
| 4 | 2390.00 | 46.07 | 7.98 | 74.00 | 27.93 | 240 | 83 | Horizontal |
| 5 | 2402.00 | 103.16 | 8.06 | 0.00 | -103.16 | 239 | 273 | Horizontal |
| 6 | 2402.00 | 101.55 | 8.06 | 0.00 | -101.55 | 143 | 314 | Horizontal |

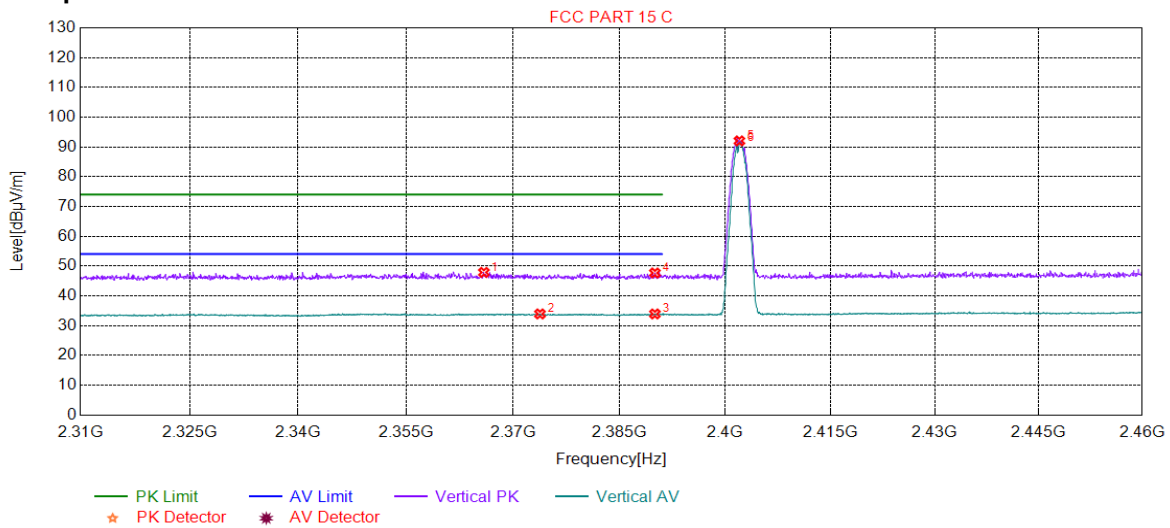
Final Data List



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4.12.1.3 GFSK_Channel 0

Test Graph



Suspected List

| Suspected List | | | | | | | | |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2365.90 | 47.85 | 8.06 | 74.00 | 26.15 | 177 | 325 | Vertical |
| 2 | 2373.78 | 33.91 | 7.98 | 54.00 | 20.09 | 233 | 172 | Vertical |
| 3 | 2390.00 | 33.91 | 7.98 | 54.00 | 20.09 | 172 | 308 | Vertical |
| 4 | 2390.00 | 47.66 | 7.98 | 74.00 | 26.34 | 260 | 26 | Vertical |
| 5 | 2402.00 | 92.01 | 8.06 | 0.00 | -92.01 | 228 | 209 | Vertical |
| 6 | 2402.00 | 91.61 | 8.06 | 0.00 | -91.61 | 293 | 209 | Vertical |

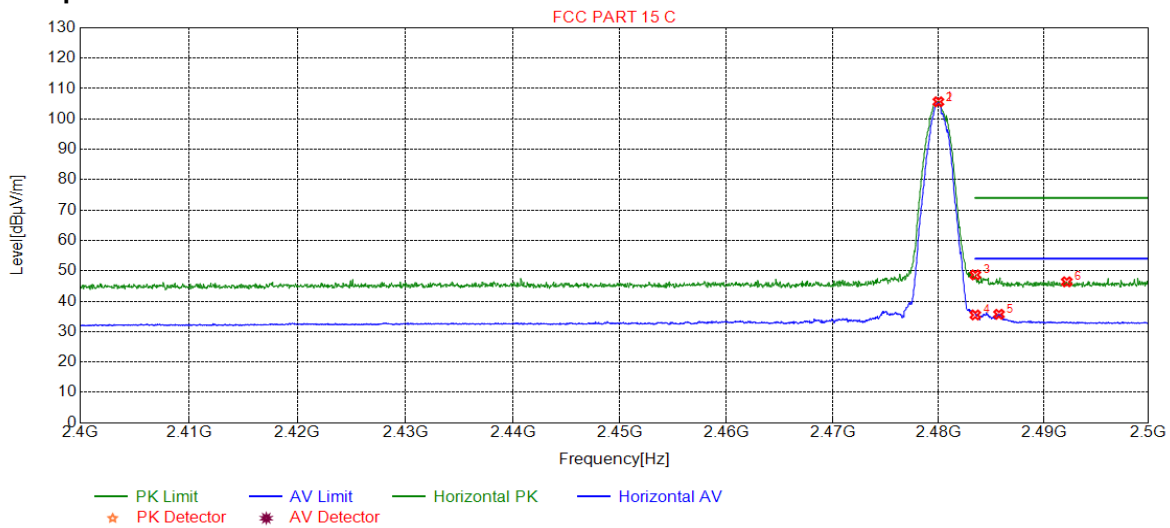
Final Data List



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4.12.1.4 GFSK_Channel 78

Test Graph



Suspected List

| Suspected List | | | | | | | | |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2480.00 | 105.64 | 8.54 | 0.00 | -105.64 | 135 | 255 | Horizontal |
| 2 | 2480.00 | 105.33 | 8.54 | 0.00 | -105.33 | 157 | 255 | Horizontal |
| 3 | 2483.50 | 48.68 | 8.50 | 74.00 | 25.32 | 160 | 334 | Horizontal |
| 4 | 2483.50 | 35.49 | 8.50 | 54.00 | 18.51 | 117 | 255 | Horizontal |
| 5 | 2485.74 | 35.71 | 8.51 | 54.00 | 18.29 | 121 | 260 | Horizontal |
| 6 | 2492.19 | 46.40 | 8.61 | 74.00 | 27.60 | 153 | 137 | Horizontal |

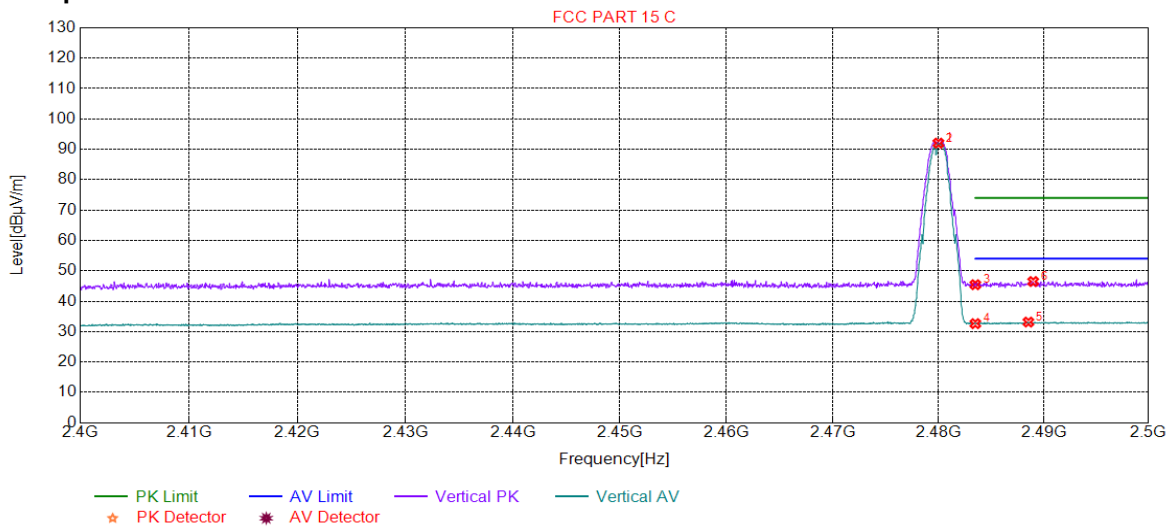
Final Data List



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4.12.1.5 GFSK_Channel 78

Test Graph



Suspected List

| Suspected List | | | | | | | | |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2480.00 | 92.03 | 8.54 | 0.00 | -92.03 | 264 | 192 | Vertical |
| 2 | 2480.00 | 91.81 | 8.54 | 0.00 | -91.81 | 159 | 192 | Vertical |
| 3 | 2483.50 | 45.44 | 8.50 | 74.00 | 28.56 | 214 | 164 | Vertical |
| 4 | 2483.50 | 32.64 | 8.50 | 54.00 | 21.36 | 198 | 157 | Vertical |
| 5 | 2488.54 | 33.15 | 8.58 | 54.00 | 20.85 | 263 | 321 | Vertical |
| 6 | 2488.99 | 46.49 | 8.60 | 74.00 | 27.51 | 163 | 321 | Vertical |

Final Data List

Remark:

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

All Modes have been tested, but only the worst case data displayed in this report.



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

Lab A:

| No. | Item | Measurement Uncertainty |
|-----|-------------------------------|-------------------------|
| 1 | Total RF power, conducted | ±0.75dB |
| 2 | RF power density, conducted | ±2.84dB |
| 3 | Spurious emissions, conducted | ±0.75dB |
| 4 | Temperature test | ±1°C |
| 5 | Humidity test | ±3% |
| 6 | DC and low frequency voltages | ±0.5% |

Lab B:

| No. | Item | Measurement Uncertainty |
|-----|---------------------|---------------------------|
| 1 | Conduction Emission | ± 3.0dB (150kHz to 30MHz) |
| 2 | Radiated Emission | ± 4.8dB (Below 1GHz) |
| | | ± 4.8dB (1GHz to 6GHz) |
| | | ± 4.5dB (6GHz to 18GHz) |
| | | ± 5.02dB (Above 18GHz) |



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6 Equipment List

| RF conducted test | | | | | |
|---------------------|-------------------------|------------------|--------------|--------------|--------------|
| Test Equipment | Manufacturer | Model No. | Inventory No | Cal. date | Cal.Duedate |
| | | | | (yyyy-mm-dd) | (yyyy-mm-dd) |
| DC Power Supply | Agilent Technologie Inc | 66311B | W009-09 | 2020/7/15 | 2021/7/15 |
| Signal Analyzer | Rohde & Schwarz | FSV | W025-05 | 2020/1/3 | 2021/1/2 |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2020/6/12 | 2021/6/11 |
| Attenuator | Weinschel Associates | WA41 | SEM021-09 | N/A | N/A |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2020/7/14 | 2021/7/14 |
| Temperature Chamber | GIANT FORCE | ICT-150-40-CP AR | W027-03 | 2020/10/27 | 2021/10/27 |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2020/7/14 | 2021/7/14 |

| CE Test System | | | | | |
|--------------------------------|---------------|-------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Shielding Room | Brilliant-emc | N/A | XAW03-35-01 | 2019-09-11 | 2022-09-10 |
| Test receiver | ROHDE&SCHWARZ | ESR | XAW01-08-05 | 2020-04-12 | 2021-04-11 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | XAW01-04-01 | 2020-08-04 | 2021-08-03 |
| Temperature and humidity meter | MingGao | TH101B | XAW01-01-01 | 2020-11-06 | 2021-11-05 |
| Measurement Software | Tonscend | TS+ CE V2.5 | XAW02-05-02 | NCR | NCR |



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| RSE Test System | | | | | |
|-------------------------------------|----------------|------------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Semi-Anechoic Chamber | Brilliant-emc | N/A | XAW03-35-01 | 2019-09-11 | 2022-09-10 |
| MXA signal analyzer | Keysight | N9020A | XAW01-06-01 | 2020-04-02 | 2021-04-01 |
| Test receiver | ROHDE&SCHWARZ | ESR | XAW01-08-01 | 2020-09-11 | 2021-09-10 |
| Receiving antenna (30MHz-3GHz) | Schwarzbeck | VULB 9163 | XAW01-09-01 | 2019-10-13 | 2021-10-12 |
| Receiving antenna (1GHz~18GHz) | Schwarzbeck | BBHA 9120D | XAW01-09-02 | 2019-10-13 | 2021-10-12 |
| Receiving antenna (15GHz~40GHz) | Schwarzbeck | BBHA 9170 | XAW01-09-03 | 2019-10-13 | 2021-10-12 |
| Directional antenna rack controller | Max-Full | MF-7802BS | XAW03-03-01 | NCR | NCR |
| High-speed antenna rack controller | Max-Full | MF-7802 | XAW03-04-01 | NCR | NCR |
| Filter bank | Tonscend | JS0806-F | XAW03-05-01 | NCR | NCR |
| Filter bank | Tonscend | JS0806s | XAW03-05-02 | NCR | NCR |
| Amplifier | Tonscend | TAP00903040 | XAW01-41-01 | 2020-10-26 | 2021-10-25 |
| Amplifier | Tonscend | TAP01018048 | XAW01-41-02 | 2020-10-26 | 2021-10-25 |
| Amplifier | Tonscend | TAP18040048 | XAW01-41-03 | 2020-10-27 | 2021-10-26 |
| Amplifier | Shanghai Steed | YX28980930 | XAW01-41-06 | 2020-10-26 | 2021-10-25 |
| Temperature and humidity meter | MingGao | TH101B | XAW01-01-01 | 2020-11-06 | 2021-11-05 |
| Measurement Software | Tonscend | TS+ RSE V3.0.0.2 | XAW02-05-01 | NCR | NCR |



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7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for HR/2020/B0007.

The End



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