

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Hublot SA
Chemin de la Vuarpilliere 33, 1260 Nyon, Switzerland

Manufacturer: Hublot SA
Chemin de la Vuarpilliere 33, 1260 Nyon, Switzerland

Product Name: Big Bang e

Brand Name: Hublot

Model No.: HB450 1

Model Difference: N/A

Report Number: ER/2022/30057

FCC ID 2AUTBHB4501

IC: 25553-HB4501

Date of EUT Received: March 18, 2022

Date of Test: March 25, 2022 ~ April 12, 2022

Issue Date: June 22, 2022

Blue Yang
Approved By _____

Blue Yang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED RSS-247.

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| Revision History | | | | | |
|------------------|----------|-------------|---------------|---------------|--------|
| Report Number | Revision | Description | Issue Date | Revised By | Remark |
| ER/2022/30057 | 00 | Original | June 22, 2022 | Violetta Tang | |
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Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

| | |
|------------------------------|--|
| Product Name: | Big Bang e |
| Brand Name: | Hublot |
| Model No.: | HB450 1 |
| Model Difference: | N/A |
| Hardware Version: | 1000 |
| Firmware Version: | eng.supers.20220520 |
| EUT Series No.: | 748710895(Conducted); 748723197(Conduction & Radiated) |
| Power Supply: | 3.8Vdc from Rechargeable Lithium Polymer Battery or 5Vdc from USB Port |
| Test Software (Name/Version) | Default |

1.2 RF Specification

| | |
|-------------------|------------------------------|
| Radio Technology: | BT BR+EDR |
| Channel number: | 79 channels |
| Modulation type: | GFSK + $\pi/4$ DQPSK + 8DPSK |
| Transmit Power: | 11.81dBm |
| Frequency Range: | 2.402GHz – 2.480GHz |
| Dwell Time: | \leq 0.4s |

1.3 Antenna Designation

| Antenna Type | Brand | Antenna Model No. | Material | Freq.(MHz) | Peak Antenna Gain (dBi) |
|--------------|--------|-------------------|----------|------------|-------------------------|
| Loop | COMPAL | DHW2 | Ceramic | 2402-2480 | -7.9 |
| Loop | COMPAL | DHW2 | Metal | 2402-2480 | -9.5 |

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas. Guidance v05r02

RSS-247 issue 2 Feb. 2017

RSS-Gen, Issue 5 (Amendment 2, February 2021)

ANSI C63.10:2013

1.5 Test Facility

| Laboratory | Test Site Address | Test Site Name | FCC Designation number | IC CAB identifier |
|---|---|--|------------------------|-------------------|
| SGS Taiwan Ltd. Central RF Lab. (TAF code 3702) | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1 SAC 3 Conduction 1 Conducted 1 Conducted 2 Conducted 3 Conducted 4 Conducted 5 Conducted 6 | TW0027 | |
| | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 | Conduction C SAC C SAC D SAC G Conducted A Conducted B Conducted C Conducted D Conducted E Conducted F Conducted G | TW3702 TW0028 | |

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 Special Accessories

There is no special accessory used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

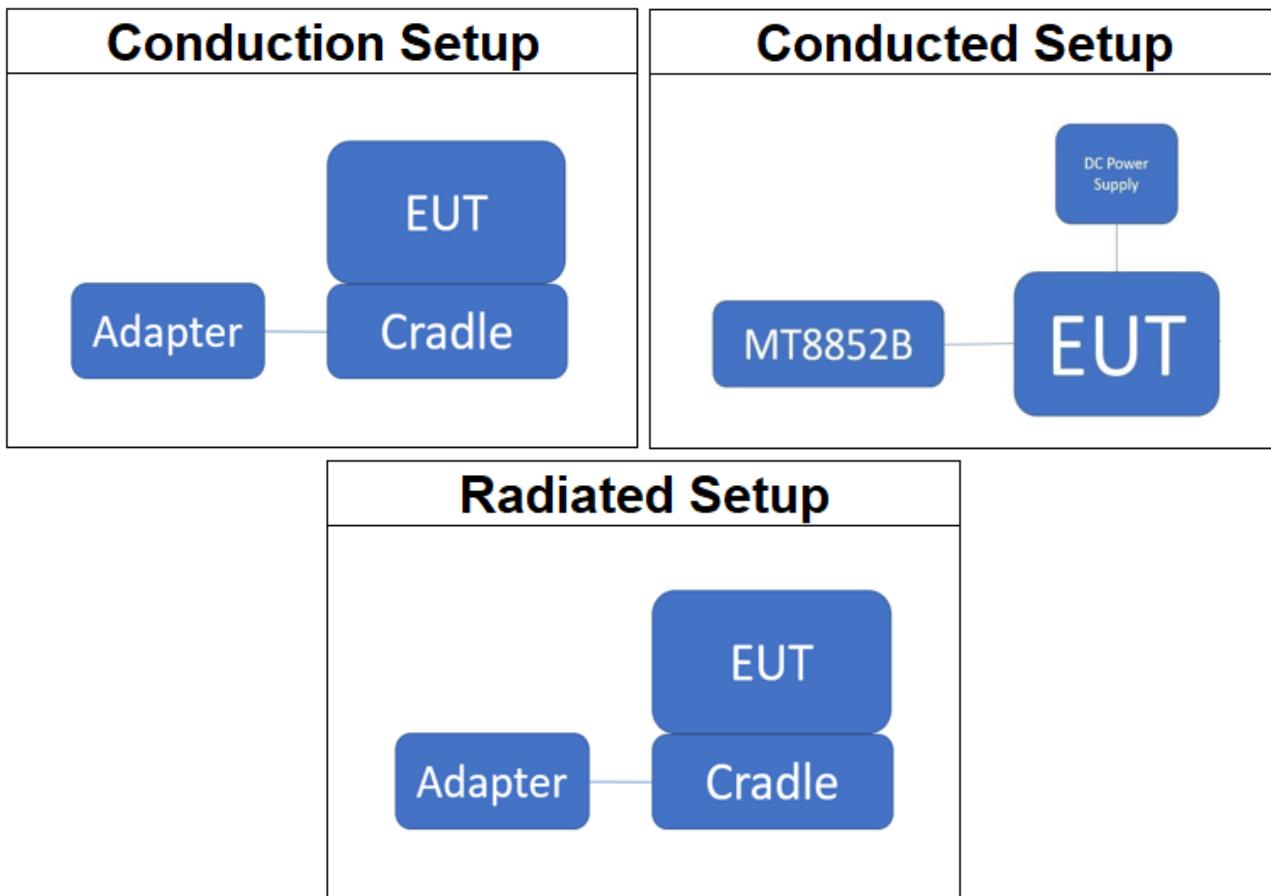
2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Test Configuration



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2.6 Control Unit(s)

| Conducted Emission Test Site: Conduction 1 | | | | | |
|--|--------------|---------------|---------------|-----------|----------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Test Software | audix | e3 | Ver. 9 210322 | N.C.R | N.C.R |
| adapter | Lucent Trans | 1A70 | N/A | N/A | N/A |
| Cradle | Luxshare-ICT | L4QPG003-CS-H | N/A | N/A | N/A |
| USB Cable | SAIBAO | SRB-A014A | N/A | N/A | N/A |

| Conducted Emission Test Site: Conducted 3 | | | | | |
|---|--------|---------------------|---------------|-----------|----------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Test Software | SGS | Radio Test Software | Ver. 21 | N.C.R | N.C.R |
| Notebook | Lenovo | T440P | PC-014TAK | N/A | N/A |
| Micro USB Cable | SGS | MDBT42T | N/A | N/A | N/A |

| Radiated Emission Test Site: SAC 3 | | | | | |
|------------------------------------|--------------|---------------|---------------|-----------|----------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Test Software | audix | e3 | Ver. 9 210322 | N.C.R | N.C.R |
| adapter | Lucent Trans | 1A70 | N/A | N/A | N/A |
| Cradle | Luxshare-ICT | L4QPG003-CS-H | N/A | N/A | N/A |
| USB Cable | SAIBAO | SRB-A014A | N/A | N/A | N/A |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | ISED Rules | Description Of Test | Result |
|----------------------------------|---|--|-----------|
| §15.207(a) | RSS-Gen §8.8 | AC Power Line Conducted Emission | Compliant |
| §15.247(b)(1) | RSS-247 §5.4 b | Peak Output Power | Compliant |
| §15.247(a)(1) | RSS-247 §5.1 b RSS-Gen §6.7 | Emission Bandwidth | Compliant |
| §15.205 §15.209 §15.247(d) | RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 | Conducted & Radiated Band Edge and Spurious Emission | Compliant |
| §15.247(a)(1) | RSS-247 §5.1 b | Frequency Separation | Compliant |
| §15.247(a)(1)(iii) | RSS-247 §5.1 d | Number of hopping frequency Time of Occupancy | Compliant |
| §15.203 | N/A | Antenna Requirement | Compliant |

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

| ITEM | FREQUENCY | ITEM | FREQUENCY | ITEM | FREQUENCY | ITEM | FREQUENCY |
|------|-----------|------|-----------|------|-----------|------|-----------|
| 1 | 2402 MHz | 21 | 2422 MHz | 41 | 2442 MHz | 71 | 2462 MHz |
| 2 | 2403 MHz | 22 | 2423 MHz | 42 | 2443 MHz | 72 | 2463 MHz |
| 3 | 2404 MHz | 23 | 2424 MHz | 43 | 2444 MHz | 73 | 2464 MHz |
| 4 | 2405 MHz | 24 | 2425 MHz | 44 | 2445 MHz | 74 | 2465 MHz |
| 5 | 2406 MHz | 25 | 2426 MHz | 45 | 2446 MHz | 75 | 2466 MHz |
| 6 | 2407 MHz | 26 | 2427 MHz | 46 | 2447 MHz | 76 | 2467 MHz |
| 7 | 2408 MHz | 27 | 2428 MHz | 47 | 2448 MHz | 77 | 2468 MHz |
| 8 | 2409 MHz | 28 | 2429 MHz | 48 | 2449 MHz | 78 | 2469 MHz |
| 9 | 2410 MHz | 29 | 2430 MHz | 49 | 2450 MHz | 79 | 2470 MHz |
| 10 | 2411 MHz | 30 | 2431 MHz | 50 | 2451 MHz | 70 | 2471 MHz |
| 11 | 2412 MHz | 31 | 2432 MHz | 51 | 2452 MHz | 71 | 2472 MHz |
| 12 | 2413 MHz | 32 | 2433 MHz | 52 | 2453 MHz | 72 | 2473 MHz |
| 13 | 2414 MHz | 33 | 2434 MHz | 53 | 2454 MHz | 73 | 2474 MHz |
| 14 | 2415 MHz | 34 | 2435 MHz | 54 | 2455 MHz | 74 | 2475 MHz |
| 15 | 2416 MHz | 35 | 2436 MHz | 55 | 2456 MHz | 75 | 2476 MHz |
| 16 | 2417 MHz | 36 | 2437 MHz | 56 | 2457 MHz | 76 | 2477 MHz |
| 17 | 2418 MHz | 37 | 2438 MHz | 57 | 2458 MHz | 77 | 2478 MHz |
| 18 | 2419 MHz | 38 | 2439 MHz | 58 | 2459 MHz | 78 | 2479 MHz |
| 19 | 2420 MHz | 39 | 2440 MHz | 59 | 2460 MHz | 79 | 2480 MHz |
| 20 | 2421 MHz | 40 | 2441 MHz | 60 | 2461 MHz | | |

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4.2 The Worst Test Modes and Channel Details

- 1 The EUT has been tested under operating condition.
- 2 Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3 The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
- 4 Investigation has been done on all the possible configurations for searching the worst case.

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | PACKET TYPE |
|---|-------------------|----------------|-------------|-------------|
| RADIATED EMISSION TEST (BELOW 1 GHz) | | | | |
| Bluetooth | 0 to 78 | 39 | GFSK | DH5 |
| RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | |
| Bluetooth | 0 to 78 | 0,39,78 | GFSK/8-DPSK | DH5/3DH5 |

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported.

| ANTNNA PORT CONDUCTED TEST | | | | |
|---|-------------------|-------------------------|-----------------------------|---------------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | PACKET TYPE |
| Peak Output Power, 20dB Band Width | | | | |
| Bluetooth | 0 to 78 | 0,39,78 | GFSK | DH5 |
| | 0 to 78 | 0,39,78 | π/4-DQPSK | 2DH5 |
| | 0 to 78 | 0,39,78 | 8-DPSK | 3DH5 |
| Band Edge | | | | |
| Bluetooth | 0 to 78 | 0,78 | GFSK/8-DPSK | DH5/3DH5 |
| Frequency Separation | | | | |
| Bluetooth | 0 to 78 | 0,1,2,38,39,40,76,77,78 | GFSK π/4-DQPSK 8-DPSK | DH5 2DH5 3DH5 |
| Number of hopping frequency | | | | |
| Bluetooth | 0 to 78 | 0,78 | GFSK/8-DPSK | DH5/3DH5 |
| Time of Occupancy(Dwell time) | | | | |
| Bluetooth | 0 to 78 | 39 | GFSK | DH1/DH3/DH5 |
| | | | π/4-DQPSK | 2DH1/2DH3/2DH5 |
| | | | 8-DPSK | 3DH1/3DH3/3DH5 |

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty | | |
|--|-------------|------|----|
| AC Power Line Conducted Emission | +/- | 2.34 | dB |
| Output Power measurement | +/- | 1 | dB |
| Emission Bandwidth | +/- | 1.53 | Hz |
| Undesignable radiated emission measurement | +/- | 1.68 | dB |
| Frequency Separation | +/- | 1.53 | Hz |
| Number of hopping frequency | +/- | 1.53 | Hz |
| Time of Occupancy | +/- | 1.53 | Hz |
| Temperature | +/- | 0.4 | °C |
| Humidity | +/- | 3.5 | % |
| DC / AC Power Source | +/- | 1 | % |

| Radiated Spurious Emission Measurement Uncertainty | | |
|--|-------------|-----------------|
| Polarization: Vertical | +/- 2.57 dB | 9kHz~30MHz |
| | +/- 4.85 dB | 30MHz - 1000MHz |
| | +/- 4.45 dB | 1GHz - 18GHz |
| | +/- 4.24 dB | 18GHz - 40GHz |
| Polarization: Horizontal | +/- 2.57 dB | 9kHz~30MHz |
| | +/- 4.37 dB | 30MHz - 1000MHz |
| | +/- 4.45 dB | 1GHz - 18GHz |
| | +/- 4.24 dB | 18GHz - 40GHz |

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

| Conducted Emission Test Site: Conduction 1 | | | | | |
|--|-------------|---------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI 7 | 100759 | 08/26/2021 | 08/25/2022 |
| LISN | SCHWARZBECK | NSLK 8127 | 01040 | 08/10/2021 | 08/09/2022 |
| Coaxial Cables | N/A | Coaxial Cable | 161207 | 12/07/2021 | 12/06/2022 |

6.2 Conducted Measurement

| Conducted Emission Test Site: Conducted 3 | | | | | |
|---|---------------|-----------------|----------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EXA Spectrum Analyzer | Agilent | N9010A | MY54200716 | 10/13/2021 | 10/12/2022 |
| EXA Spectrum Analyzer | KEYSIGHT | N9010B | MY59071571 | 05/26/2021 | 05/25/2022 |
| Power Meter | Anritsu | ML2496A | 2132007 | 11/12/2021 | 11/11/2022 |
| Power Sensor | Anritsu | MA2411B | 1911392 | 09/21/2021 | 09/20/2022 |
| DC Power Supply | Gwinstek | SPS-3610 | GEV856757 | 10/12/2021 | 10/11/2022 |
| Bluetooth Test Set | Anritsu | MT8852B | 6K00006107 | 08/10/2021 | 08/09/2022 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 12/14/2021 | 12/13/2022 |
| Power Divider | RF-LAMBAD | RFLT2W1G1 8G | 11-JSPF412-017 | 12/14/2021 | 12/13/2022 |

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6.3 Radiated Measurement

| Radiated Emission Test Site: SAC 3 | | | | | |
|------------------------------------|-----------------|-------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 184 | 12/16/2021 | 12/15/2022 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 1441 | 09/27/2021 | 09/26/2022 |
| Bi-log Antenna | SCHWARZBECK | VULB9168 | 378 | 08/20/2021 | 08/19/2022 |
| Loop Antenna | ETS.LINDGREN | 6502 | 148045 | 09/29/2021 | 09/28/2022 |
| PXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 04/27/2021 | 04/26/2022 |
| EMI Test Receiver | R&S | ESCI 7 | 100759 | 08/26/2021 | 08/25/2022 |
| Pre-Amplifier | HP | 8449B | 3008A00578 | 12/16/2021 | 12/15/2022 |
| Pre-Amplifier | EMC Instruments | EMC184045B | 980135 | 10/27/2021 | 10/26/2022 |
| Pre-Amplifier | HP | 8447D | 2944A07676 | 12/16/2021 | 12/15/2022 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 4 | 12/14/2021 | 12/13/2022 |
| Filter 2400-2483.5 MHz | EWT | EWT-14-0166 | M1 | 12/14/2021 | 12/13/2022 |
| High Pass Filter | WI | WHKX4.0/18 G-10SS | 22 | 12/14/2021 | 12/13/2022 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 102 | MY2636/2 | 12/16/2021 | 12/15/2022 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 104 | 340057/4 | 12/16/2021 | 12/15/2022 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 104PEA | 800052/2 | 12/16/2021 | 12/15/2022 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 102 | MY2621/2 | 12/16/2021 | 12/15/2022 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 102 | MY2617/2 | 12/16/2021 | 12/15/2022 |
| Bluetooth Test Set | Anritsu | MT8852B | 6K00006107 | 08/10/2021 | 08/09/2022 |
| Site Cal | SGS | SAC 3 | N/A | 01/01/2022 | 12/31/2022 |

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

| Frequency range MHz | Limits dB(uV) | |
|------------------------|------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

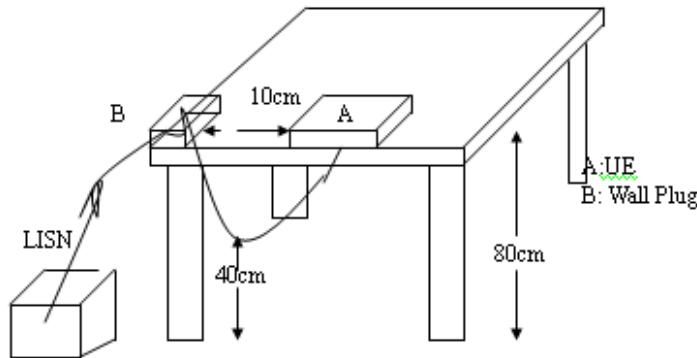
Note

1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

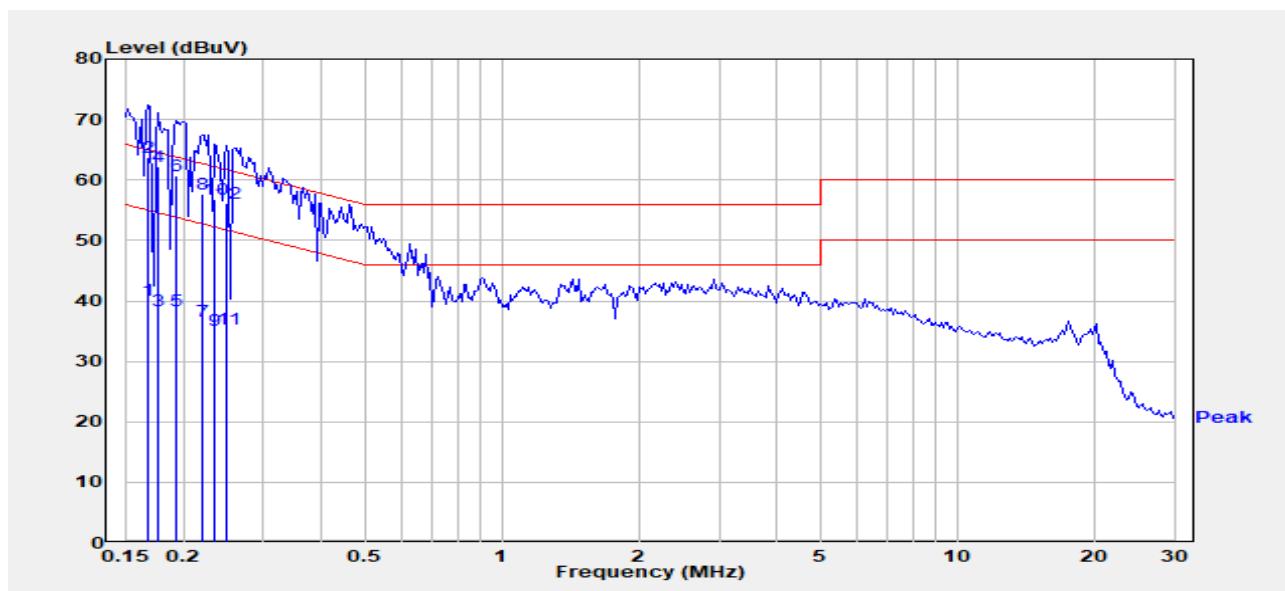
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :ER/2022/30057
 Test Mode :BT
 Power :120V/60Hz
 Probe :L
 Note: :

Test Site :Conduction 1
 Test Date :2022-04-06
 Temp./Humi. :22.3/66
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V | Limit dB μ V | Margin dB |
|--------------|------------------------------|---|--------------|----------------------------|---------------------|--------------|
| 0.167 | Average | 37.92 | 2.12 | 40.04 | 55.12 | -15.08 |
| 0.167 | QP | 61.71 | 2.12 | 63.83 | 65.12 | -1.29 |
| 0.176 | Average | 36.18 | 2.12 | 38.30 | 54.68 | -16.38 |
| 0.176 | QP | 60.16 | 2.12 | 62.28 | 64.68 | -2.40 |
| 0.193 | Average | 36.32 | 2.12 | 38.44 | 53.89 | -15.45 |
| 0.193 | QP | 58.68 | 2.12 | 60.80 | 63.89 | -3.09 |
| 0.220 | Average | 34.53 | 2.12 | 36.65 | 52.83 | -16.18 |
| 0.220 | QP | 55.62 | 2.12 | 57.74 | 62.83 | -5.09 |
| 0.234 | Average | 32.92 | 2.12 | 35.04 | 52.30 | -17.26 |
| 0.234 | QP | 54.63 | 2.12 | 56.75 | 62.30 | -5.55 |
| 0.249 | Average | 33.26 | 2.12 | 35.38 | 51.78 | -16.40 |
| 0.249 | QP | 54.02 | 2.12 | 56.14 | 61.78 | -5.64 |

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Report Number :ER/2022/30057

Test Mode :BT

Power :120V/60Hz

Probe :N

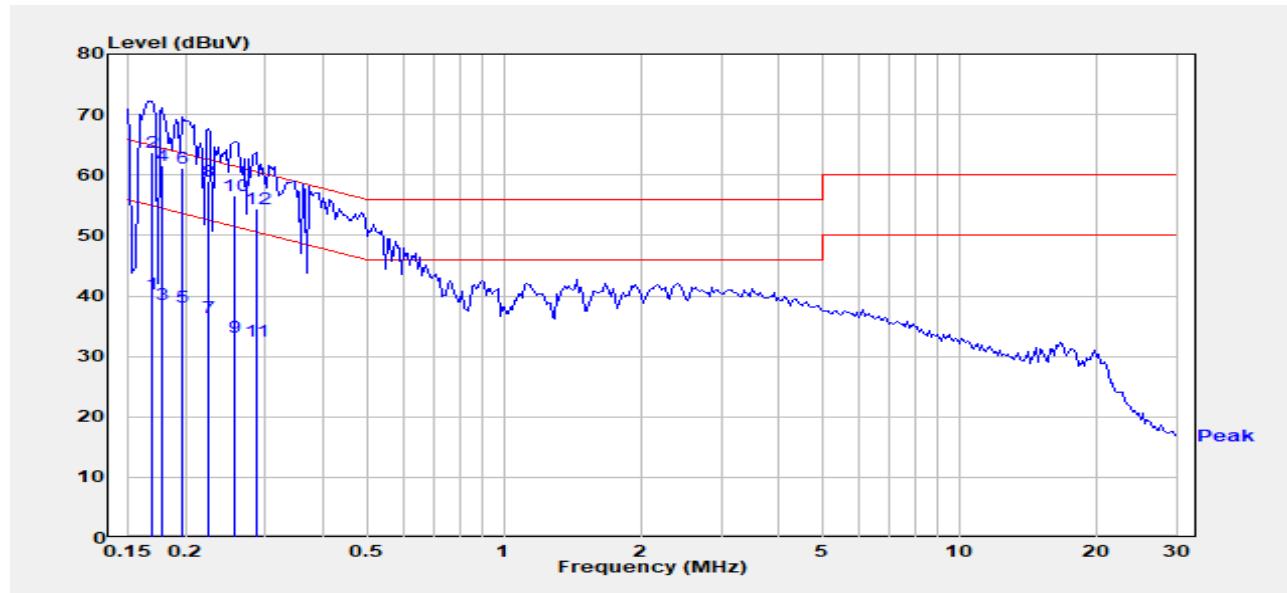
Note: :

Test Site :Conduction 1

Test Date :2022-04-06

Temp./Humi. :22.3/66

Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V | Limit dB μ V | Margin dB |
|--------------|------------------------------|--|--------------|----------------------------|---------------------|--------------|
| 0.169 | Average | 38.22 | 2.19 | 40.41 | 55.03 | -14.62 |
| 0.169 | QP | 61.61 | 2.19 | 63.80 | 65.03 | -1.23 |
| 0.178 | Average | 36.26 | 2.23 | 38.49 | 54.59 | -16.11 |
| 0.178 | QP | 59.33 | 2.23 | 61.56 | 64.59 | -3.04 |
| 0.198 | Average | 35.92 | 2.29 | 38.21 | 53.71 | -15.50 |
| 0.198 | QP | 58.93 | 2.29 | 61.22 | 63.71 | -2.49 |
| 0.224 | Average | 34.12 | 2.27 | 36.39 | 52.66 | -16.27 |
| 0.224 | QP | 56.62 | 2.27 | 58.89 | 62.66 | -3.77 |
| 0.258 | Average | 31.02 | 2.23 | 33.25 | 51.51 | -18.26 |
| 0.258 | QP | 54.36 | 2.23 | 56.59 | 61.51 | -4.92 |
| 0.286 | Average | 30.36 | 2.21 | 32.57 | 50.63 | -18.06 |
| 0.286 | QP | 52.16 | 2.21 | 54.37 | 60.63 | -6.26 |

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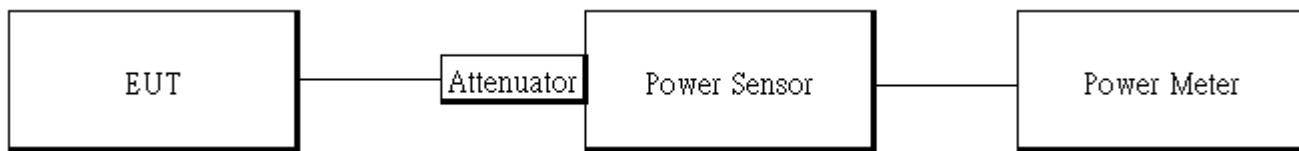
8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.

The e.i.r.p. shall not exceed 4 W.

8.2 Test Setup



8.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10 Measurement Guidelines.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth)
4. Record the max. reading.
5. Repeat above procedures until all default test channel is completed.

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8.4 Peak & Average Power Measurement Result

1M BR mode (Peak):

| CH | Freq. (MHz) | Power set | Peak Output Power (dBm) | Output Power (mW) | Limit (mW) |
|------|-------------|-----------|-------------------------|-------------------|------------|
| Low | 2402 | default | 11.56 | 14.322 | 1000 |
| Mid | 2441 | default | 10.56 | 11.376 | 1000 |
| High | 2480 | default | 11.81 | 15.171 | 1000 |

1M BR mode (Average):

| CH | Freq. (MHz) | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Output Power (mW) | Limit (mW) |
|------|-------------|-----------|--|-------------------|------------|
| Low | 2402 | default | 11.06 | 12.754 | 1000 |
| Mid | 2441 | default | 10.09 | 10.201 | 1000 |
| High | 2480 | default | 11.67 | 14.677 | 1000 |

2M EDR mode (Peak):

| CH | Freq. (MHz) | Power set | Peak Output Power (dBm) | Output Power (mW) | Limit (mW) |
|------|-------------|-----------|-------------------------|-------------------|------------|
| Low | 2402 | default | 11.15 | 13.032 | 125 |
| Mid | 2441 | default | 10.05 | 10.116 | 125 |
| High | 2480 | default | 11.45 | 13.964 | 125 |

2M EDR mode (Average):

| CH | Freq. (MHz) | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Output Power (mW) | Limit (mW) |
|------|-------------|-----------|--|-------------------|------------|
| Low | 2402 | default | 9.33 | 8.578 | 125 |
| Mid | 2441 | default | 7.98 | 6.286 | 125 |
| High | 2480 | default | 9.74 | 9.427 | 125 |

3M EDR mode (Peak):

| CH | Freq. (MHz) | Power set | Peak Output Power (dBm) | Output Power (mW) | Limit (mW) |
|------|-------------|-----------|-------------------------|-------------------|------------|
| Low | 2402 | default | 11.36 | 13.677 | 125 |
| Mid | 2441 | default | 10.31 | 10.740 | 125 |
| High | 2480 | default | 11.62 | 14.521 | 125 |

3M EDR mode (Average):

| CH | Freq. (MHz) | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Output Power (mW) | Limit (mW) |
|------|-------------|-----------|--|-------------------|------------|
| Low | 2402 | default | 9.34 | 8.598 | 125 |
| Mid | 2441 | default | 7.97 | 6.272 | 125 |
| High | 2480 | default | 9.76 | 9.471 | 125 |

NOTE: cable loss as dB that offsets in the spectrum

**Note: Max. Output include tune up tolerance Power measured by using average detector.*

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8.5 EIRP Measurement Result

1M BR mode EIRP

| Channel | Frequency (MHz) | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Antenna Gain (dBi) | EIRP (mW) | Limit (mW) |
|---------|-----------------|-----------|--|--------------------|-----------|------------|
| Low | 2402 | default | 11.06 | -7.90 | 2.068 | 4000 |
| Mid | 2441 | default | 10.09 | -7.90 | 1.654 | 4000 |
| High | 2480 | default | 11.67 | -7.90 | 2.380 | 4000 |

2M EDR mode EIRP

| Channel | Frequency (MHz) | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Antenna Gain (dBi) | EIRP (mW) | Limit (mW) |
|---------|-----------------|-----------|--|--------------------|-----------|------------|
| Low | 2402 | default | 9.33 | -7.90 | 1.391 | 4000 |
| Mid | 2441 | default | 7.98 | -7.90 | 1.019 | 4000 |
| High | 2480 | default | 9.74 | -7.90 | 1.529 | 4000 |

3M EDR mode EIRP

| Channel | Frequency (MHz) | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Antenna Gain (dBi) | EIRP (mW) | Limit (mW) |
|---------|-----------------|-----------|--|--------------------|-----------|------------|
| Low | 2402 | default | 9.34 | -7.90 | 1.394 | 4000 |
| Mid | 2441 | default | 7.97 | -7.90 | 1.017 | 4000 |
| High | 2480 | default | 9.76 | -7.90 | 1.536 | 4000 |

* Note: EIRP = Average Power + Gain

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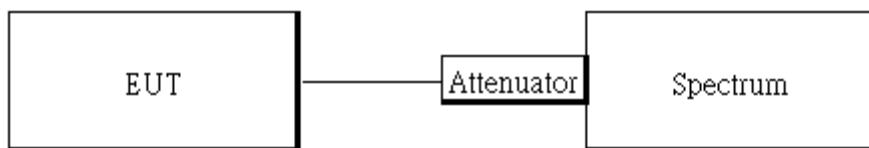
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

For frequency hopping systems operating in the 2400 MHz-2483.5 MHz no limit for 20dB bandwidth.

9.2 Test Setup



9.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set the spectrum analyzer as
RBW= 1 % to 5% of OBW ,
VBW = 3 X RBW,
Span= 2 to 5 times of the OBW,
Sweep=auto,
Detector = Peak, and Max hold for 20dB Bandwidth test.
5. Mark the peak frequency and -20dB (upper and lower) frequency
6. Set the spectrum analyzer as
RBW= 1 % to 5% of 99% Bandwidth ,
VBW \geq 3 X RBW,
Span= large enough to capture all products of the modulation process,
Sweep=auto,
Detector = Peak, and Max hold for 99% Bandwidth test.
7. Mark the peak frequency and 99%dB (upper and lower) frequency
8. Repeat above procedures until all test default channel is completed

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9.4 20dB Bandwidth

GFSK

| CH | 20 dB BW (MHz) | 2/3 BW (MHz) |
|------|----------------|--------------|
| Low | 0.9414 | 0.63 |
| Mid | 0.9404 | 0.63 |
| High | 0.9413 | 0.63 |

$\pi/4$ -DQPSK

| CH | 20 dB BW (MHz) | 2/3 BW (MHz) |
|------|----------------|--------------|
| Low | 1.282 | 0.85 |
| Mid | 1.283 | 0.86 |
| High | 1.281 | 0.85 |

8-DPSK

| CH | 20 dB BW (MHz) | 2/3 BW (MHz) |
|------|----------------|--------------|
| Low | 1.292 | 0.86 |
| Mid | 1.291 | 0.86 |
| High | 1.293 | 0.86 |

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9.5 99% Bandwidth

GFSK

| CH | 99% BW (MHz) |
|------|--------------|
| Low | 0.83971 |
| Mid | 0.83851 |
| High | 0.84018 |

$\pi/4$ -DQPSK

| CH | 99% BW (MHz) |
|------|--------------|
| Low | 1.1692 |
| Mid | 1.1666 |
| High | 1.1731 |

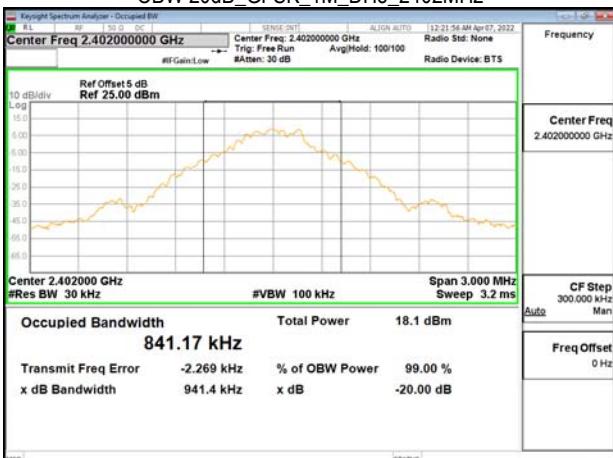
8-DPSK

| CH | 99% BW (MHz) |
|------|--------------|
| Low | 1.1751 |
| Mid | 1.1712 |
| High | 1.1787 |

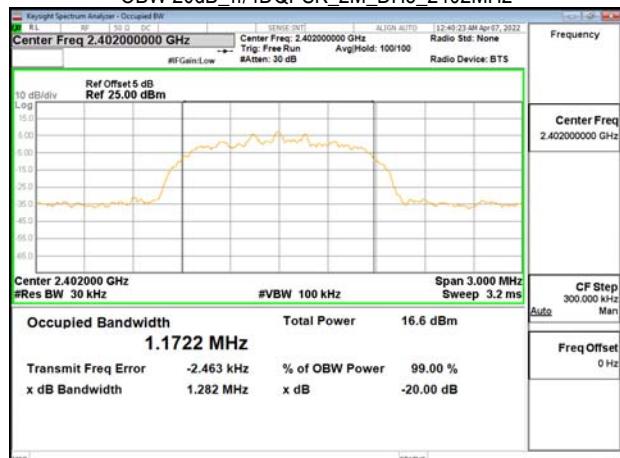
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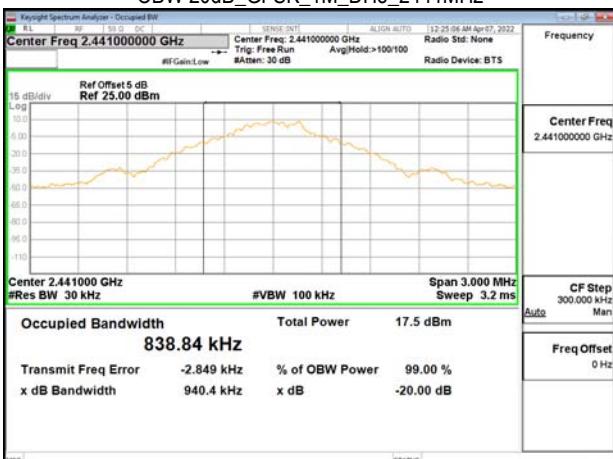
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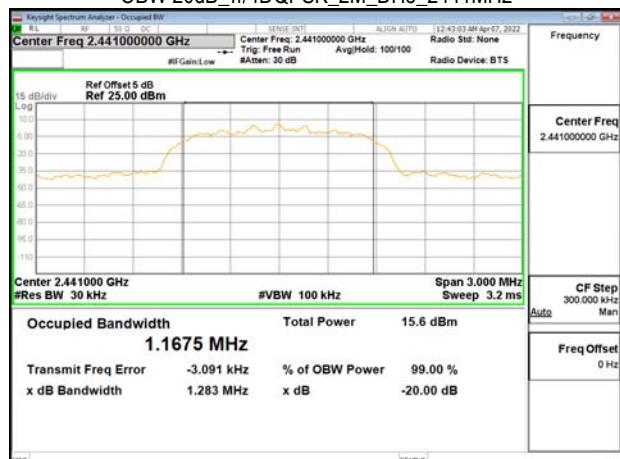
OBW 20dB_π/4DQPSK_2M_DH5_2402MHz



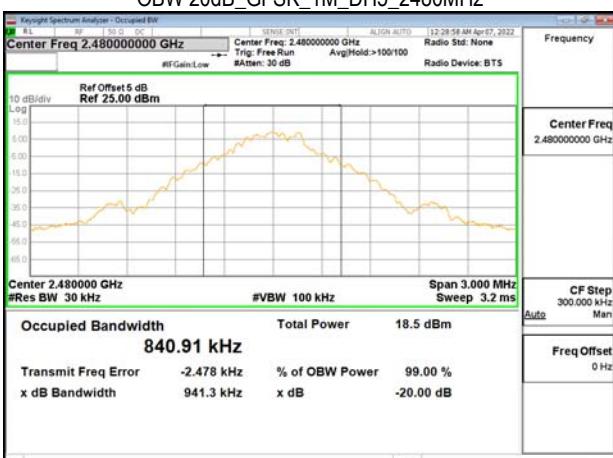
OBW 20dB_GFSK_1M_DH5_2441MHz



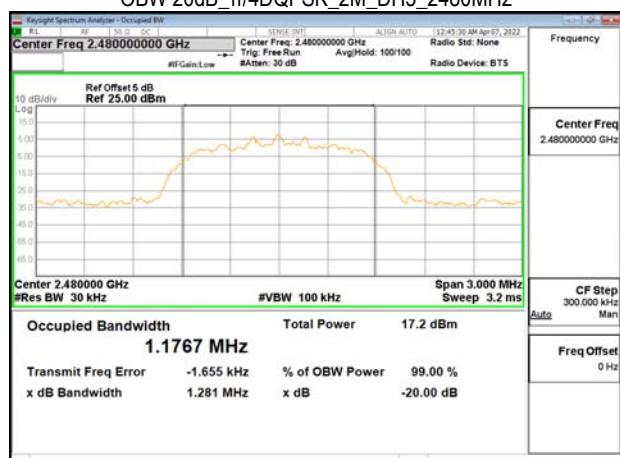
OBW 20dB_π/4DQPSK_2M_DH5_2441MHz



OBW 20dB_GFSK_1M_DH5_2480MHz



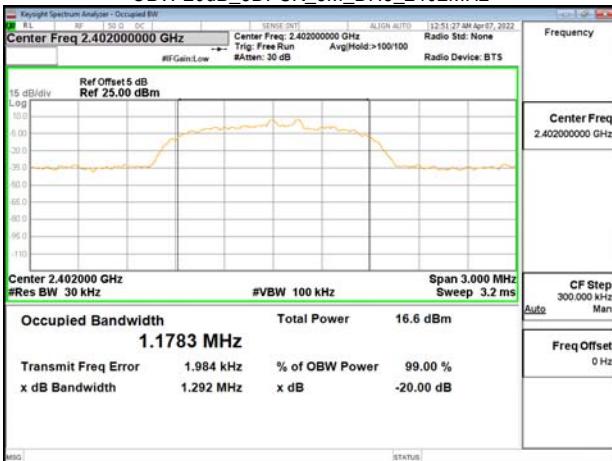
OBW 20dB_π/4DQPSK_2M_DH5_2480MHz



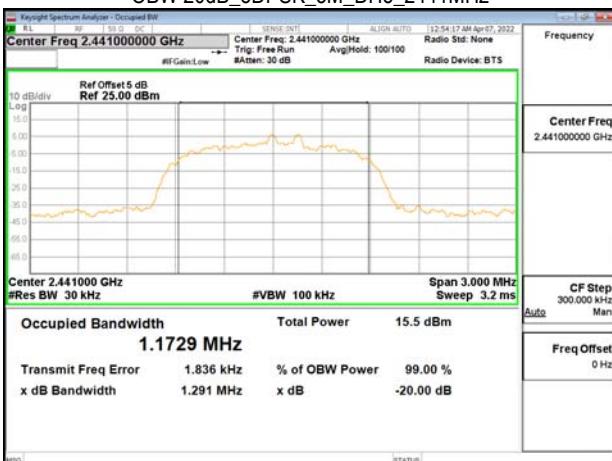
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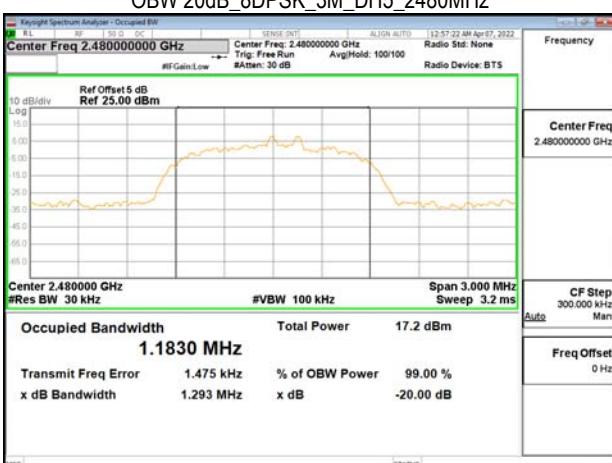
OBW 20dB_8DPSK_3M_DH5_2402MHz



OBW 20dB_8DPSK_3M_DH5_2441MHz



OBW 20dB_8DPSK_3M_DH5_2480MHz



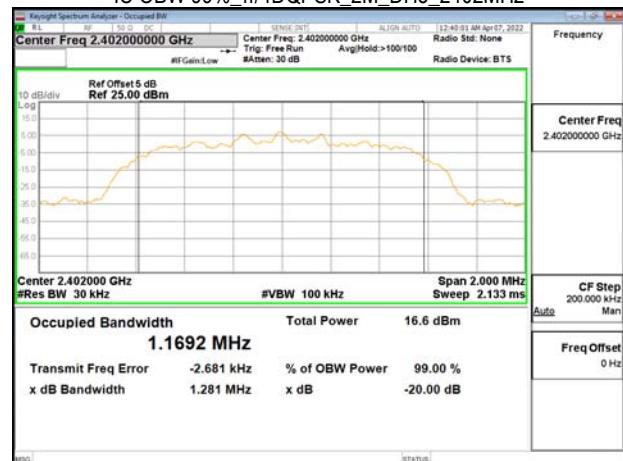
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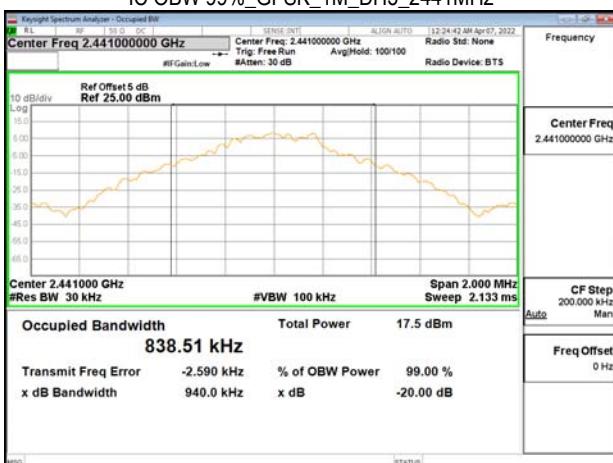
IC OBW 99%_GFSK_1M_DH5_2402MHz



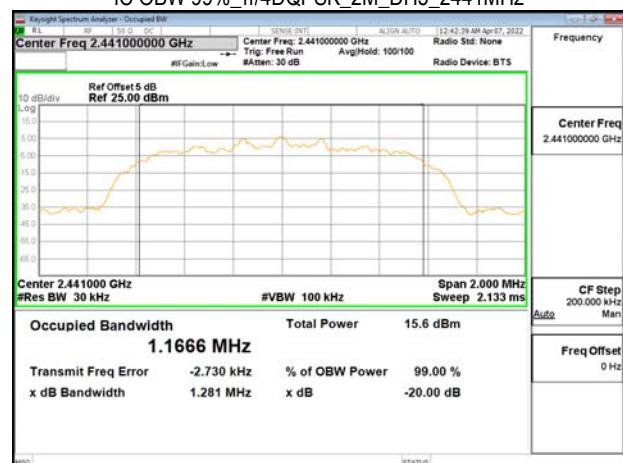
IC OBW 99%_π/4DQPSK_2M_DH5_2402MHz



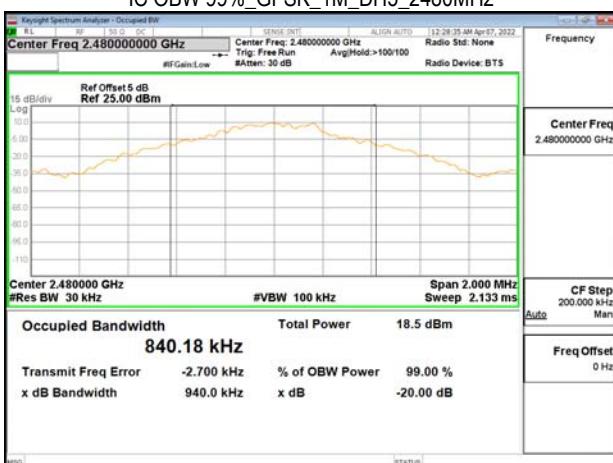
IC OBW 99%_GFSK_1M_DH5_2441MHz



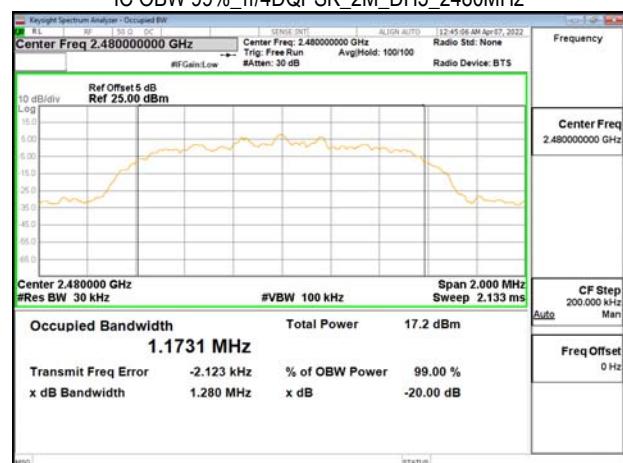
IC OBW 99%_π/4DQPSK_2M_DH5_2441MHz



IC OBW 99%_GFSK_1M_DH5_2480MHz



IC OBW 99%_π/4DQPSK_2M_DH5_2480MHz



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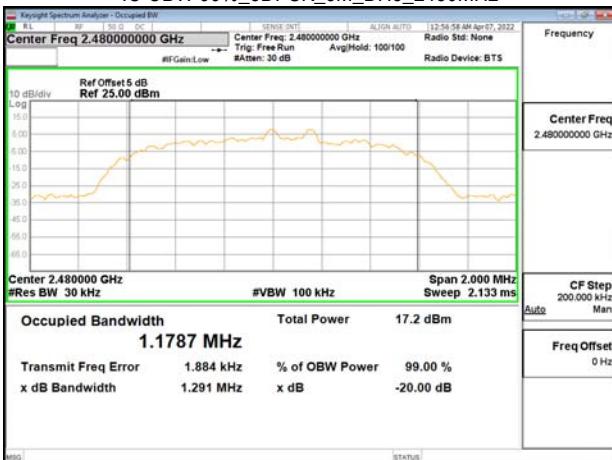
IC OBW 99%_8DPSK_3M_DH5_2402MHz



IC OBW 99%_8DPSK_3M_DH5_2441MHz



IC OBW 99%_8DPSK_3M_DH5_2480MHz



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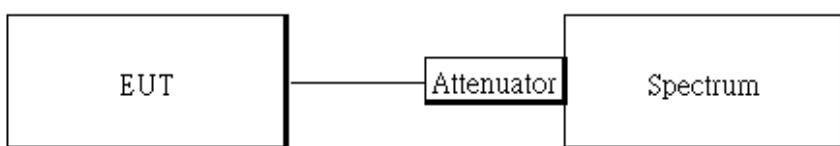
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

10.2 Test Setup



10.3 Measurement Procedure

10.3.1 Conducted Band Edge:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto
6. Mark Peak, 2.3999GHz and 2.4836GHz and record the max. level.
7. Repeat above procedures until all frequency measured were complete.

10.3.2 Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows ANSI C63.10:2013.
3. Set RBW = 100 kHz & VBW = 300 kHz, Detector =Peak, Sweep = Auto
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

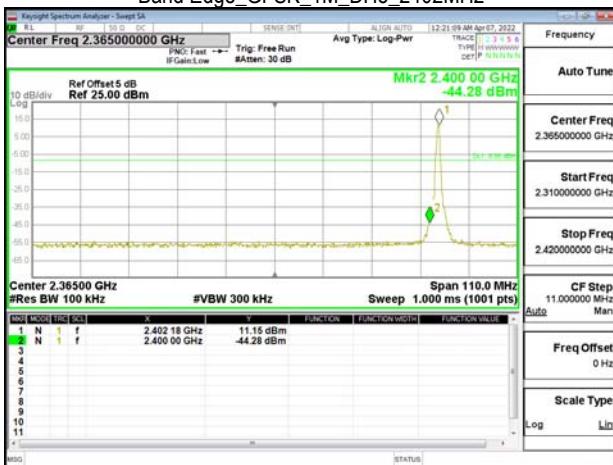
10.4 Measurement Result

See next page for test plots.

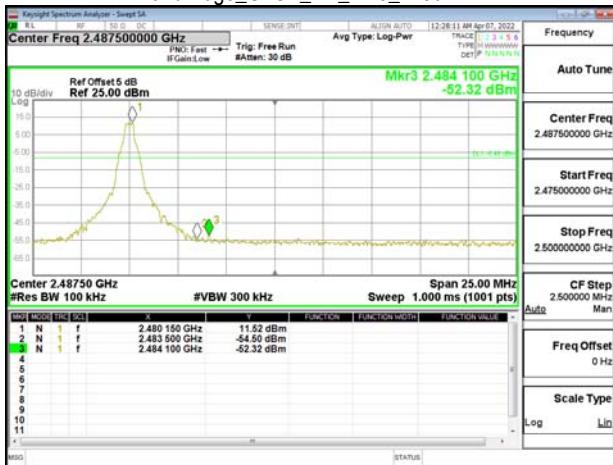
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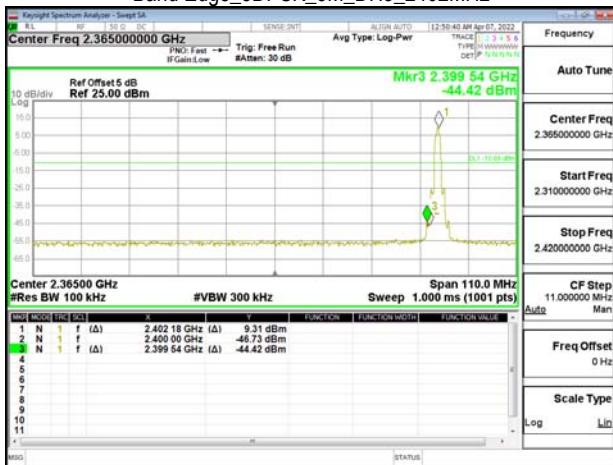
Band Edge_GFSK_1M_DH5_2402MHz



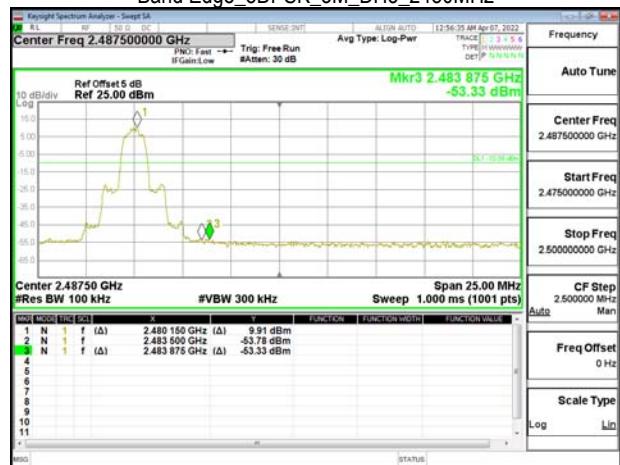
Band Edge_GFSK_1M_DH5_2480MHz



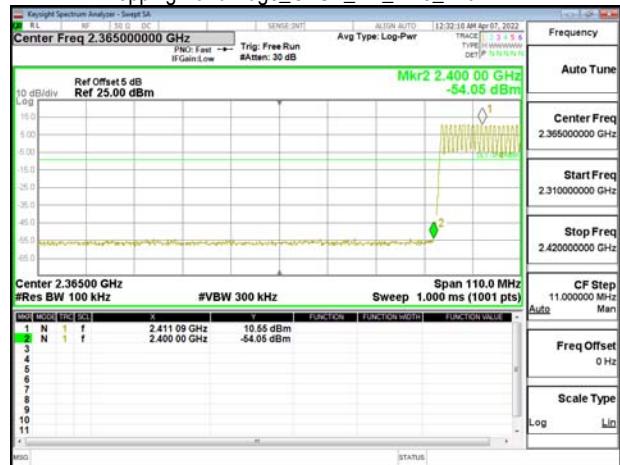
Band Edge_8DPSK_3M_DH5_2402MHz



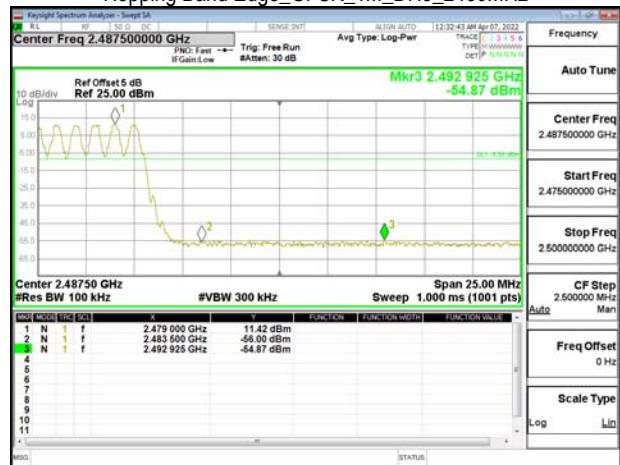
Band Edge_8DPSK_3M_DH5_2480MHz



Hopping Band Edge_GFSK_1M_DH5_2402MHz

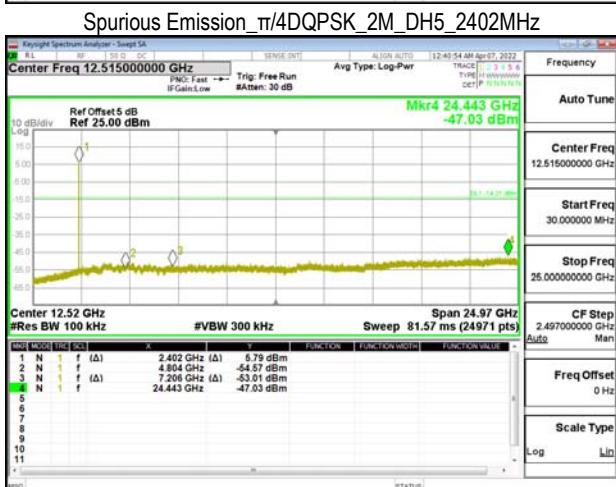
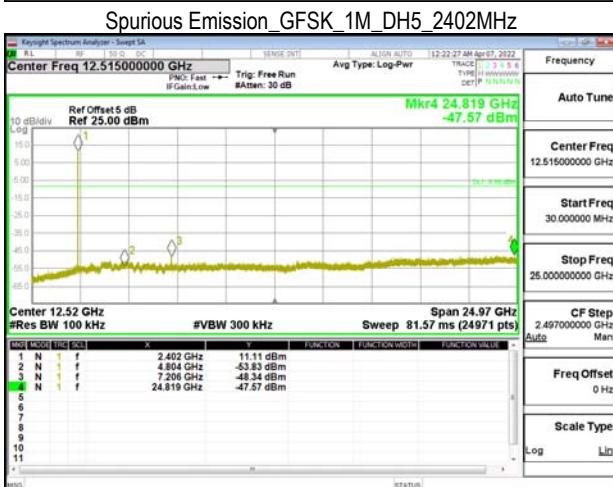
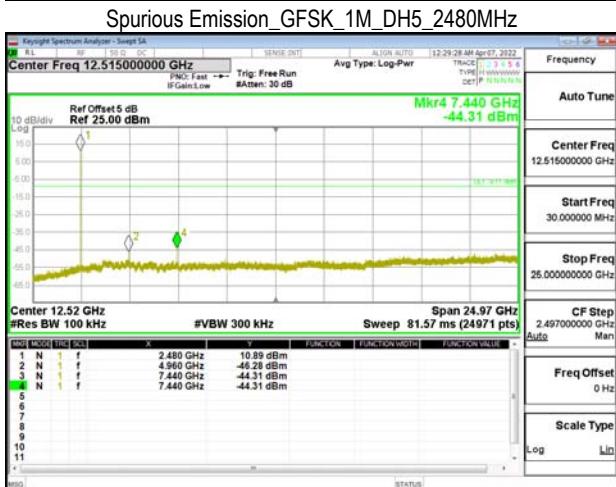
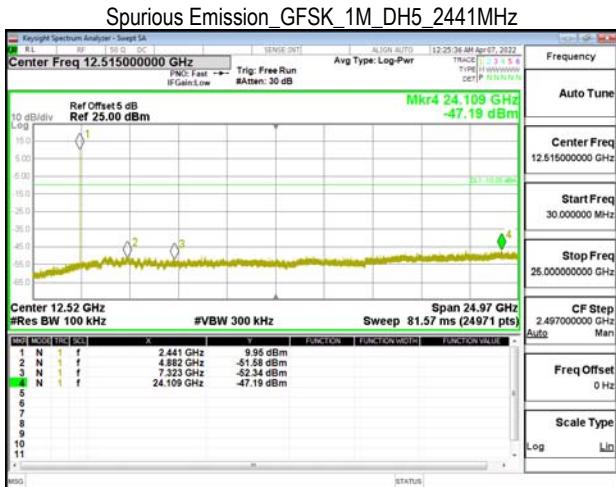
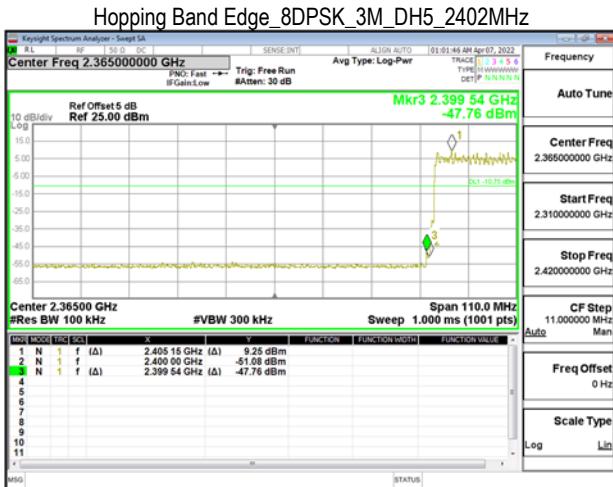


Hopping Band Edge_GFSK_1M_DH5_2480MHz



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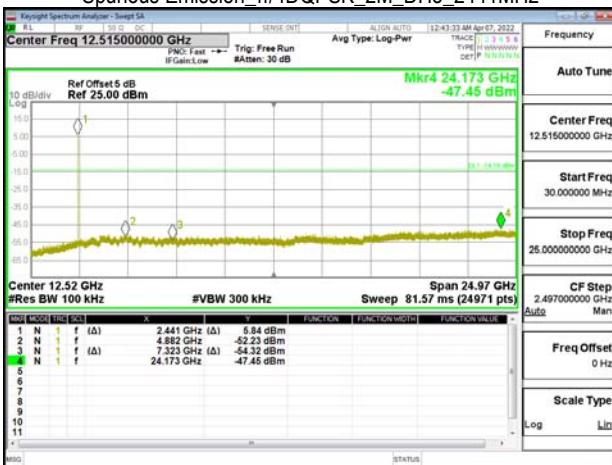
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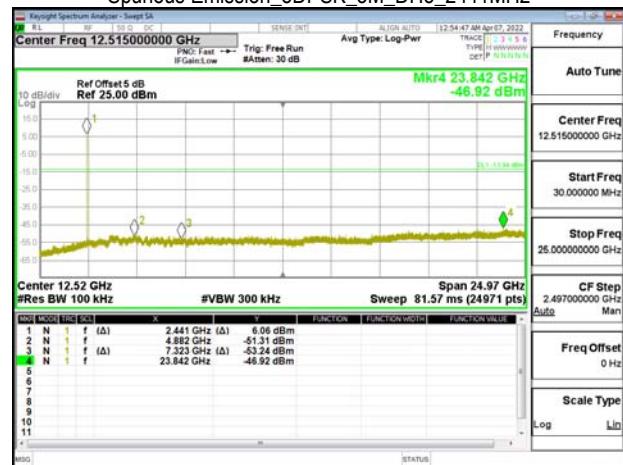
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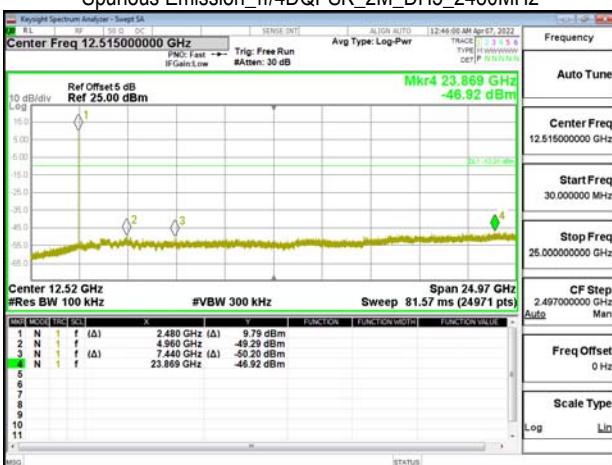
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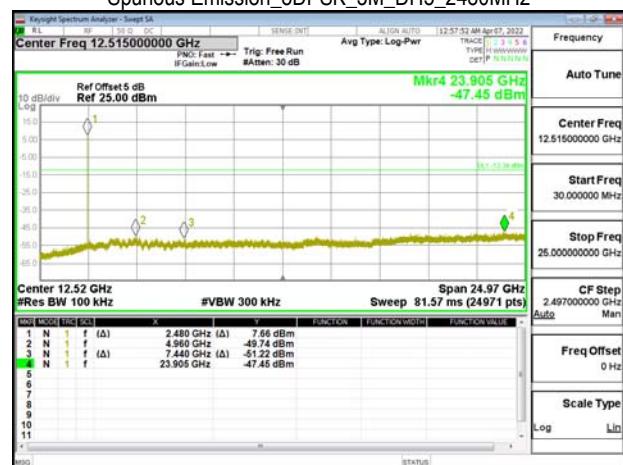
Spurious Emission_8DPSK_3M_DH5_2441MHz



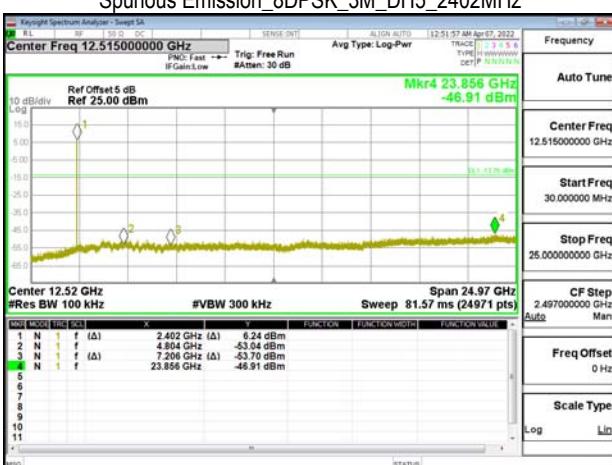
Spurious Emission_π/4DQPSK_2M_DH5_2480MHz



Spurious Emission_8DPSK_3M_DH5_2480MHz



Spurious Emission_8DPSK_3M_DH5_2402MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 Duty Cycle Correction Factor

According to 15. 35(c) and RSS-Gen §8.2, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification.

11.1.2 Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

Note:

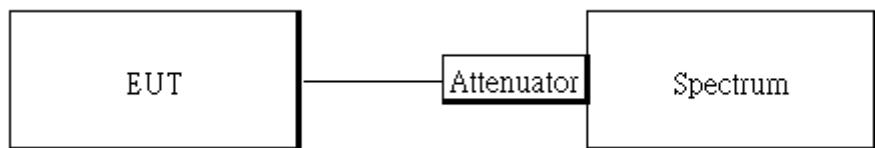
1. The lower limit shall apply at the transition frequencies.

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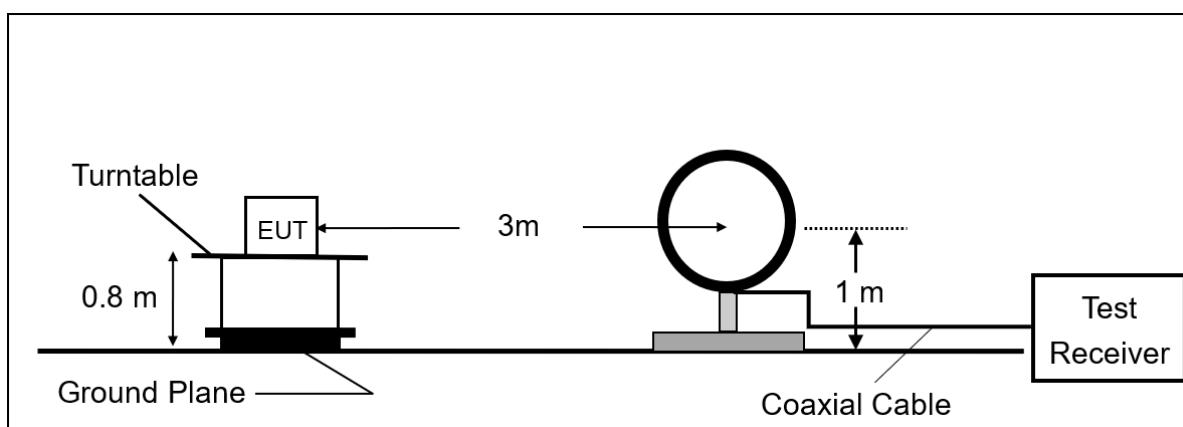
11.2 Test Setup

11.2.1 Duty Cycle Correction Factor

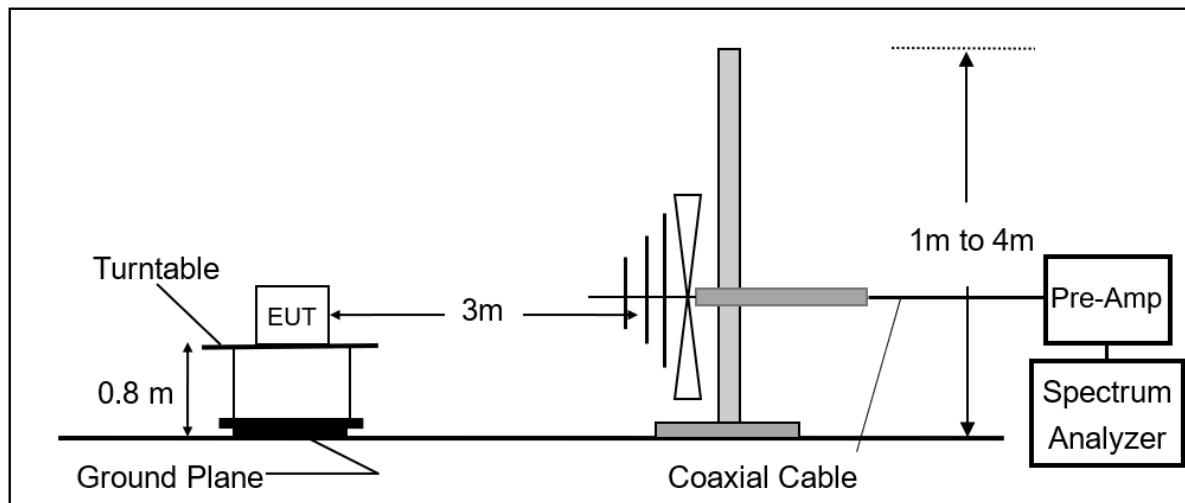


11.2.2 Radiated Emission

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



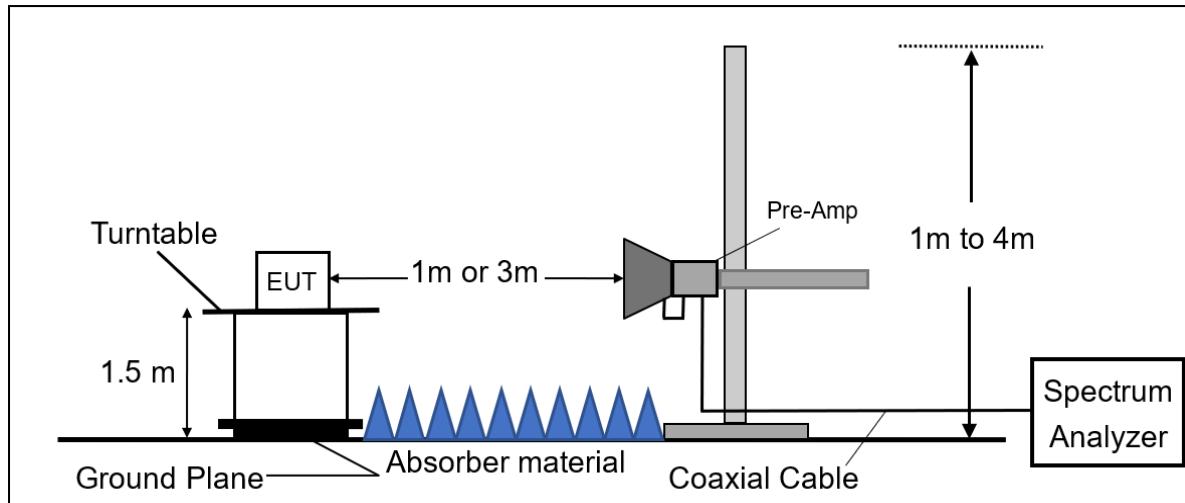
(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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(C) Radiated Emission Test Set-Up, Frequency Above 1 GHz.



11.3 Measurement Procedure

11.3.1 Duty Cycle Correction Factor

1. Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the “worst-case” pulse ON time.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz , Detector = Peak, Adjust Sweep = 2~8ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

11.3.2 Radiated Emission

1. The testing follows the Measurement Procedure of ANSI C63.10:2013.
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.

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7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. According to C63.10:2013 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor $20 \log(T_{on}/100ms)$.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

11.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dB μ V/m, which converts $20 \log(uV/m)$

Actual $FS(dB\mu V/m) = SPA \cdot Reading\ level(dB\mu V) + Factor(dB)$

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Average value(dB μ V/m)=Peak Actual $FS(dB\mu V/m) + Duty\ Cycle\ Correction\ Factor(dB)$

Duty Cycle Correction Factor(dB) = $20 \log(T_{on}/100\ ms)$

11.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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11.6 Measurement Result:

11.6.1 Duty Cycle Correction Factor

Bluetooth 1M

| | | |
|---|------------------|-----------|
| Time ON of 100ms: | 5.666 | ms |
| Duty Cycle= | 5.666ms / 100ms= | 0.05666 % |
| Duty Cycle correction factor=20 LOG 0.056 -24.93 dB | | |

Bluetooth 3M

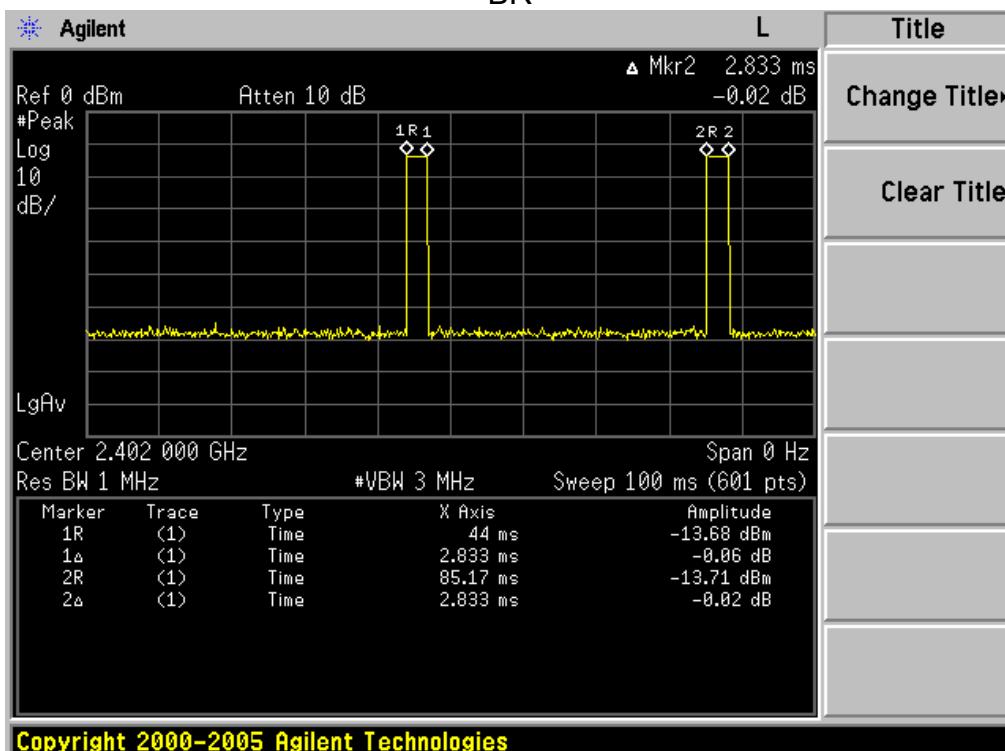
| | | |
|---|------------------|-----------|
| Time ON of 100ms: | 5.334 | ms |
| Duty Cycle= | 5.334ms / 100ms= | 0.05334 % |
| Duty Cycle correction factor=20 LOG 0.053 -25.46 dB | | |

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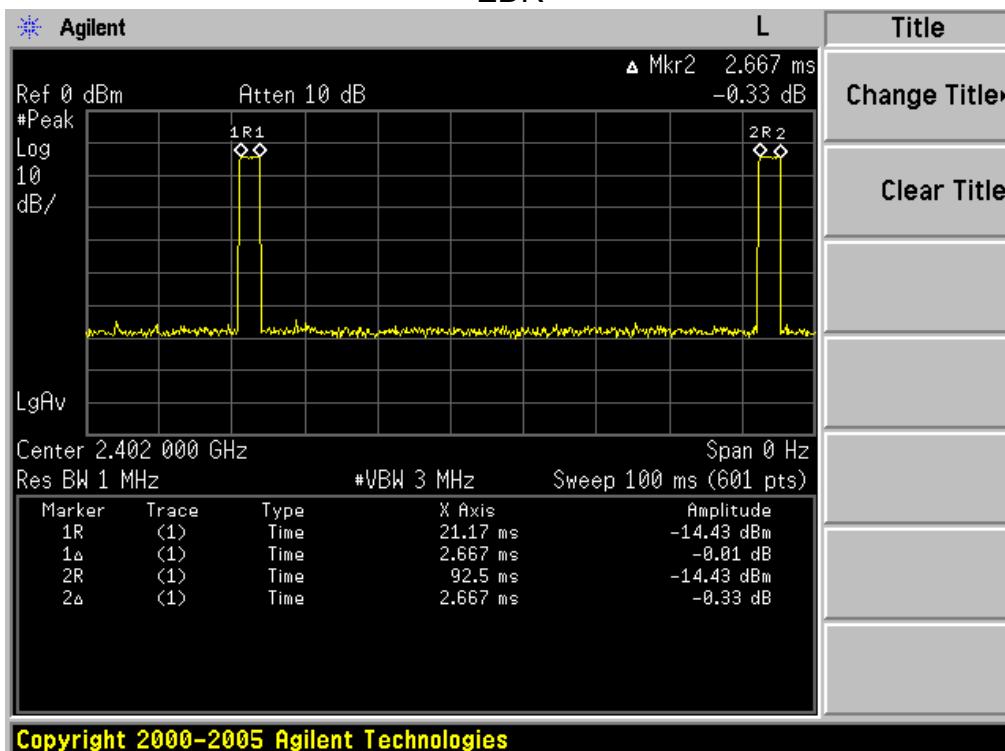
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11.6.2 Duty Cycle test plot

BR



EDR

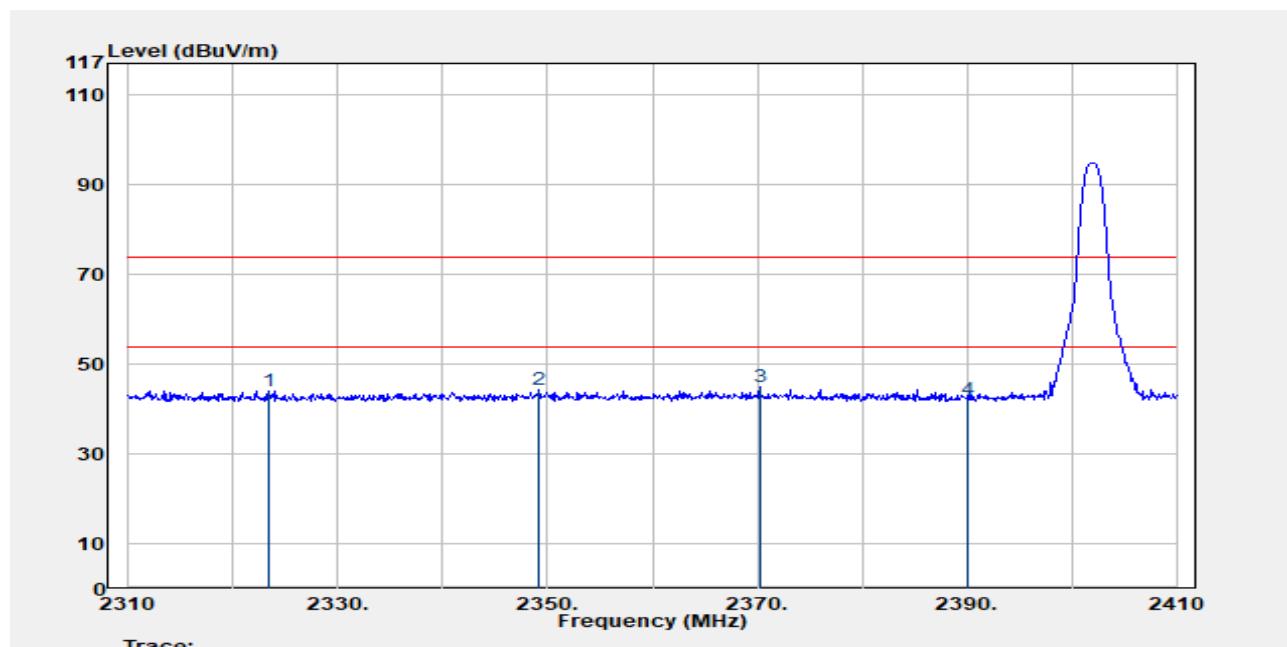


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11.6.3 Bandedge Result

| | | | |
|----------------|------------------|--------------|-------------|
| Report Number | :ER/2022/30057 | Test Site | :SAC 3 |
| Operation Mode | :BR | Test Date | :2022-04-06 |
| Test Frequency | :2402 MHz | Temp./Humi. | :20.5/66 |
| Test Mode | :Bandedge CH Low | Antenna Pol. | :Vertical |
| EUT Pol | :E1 Plane | Engineer | :Jack Liu |

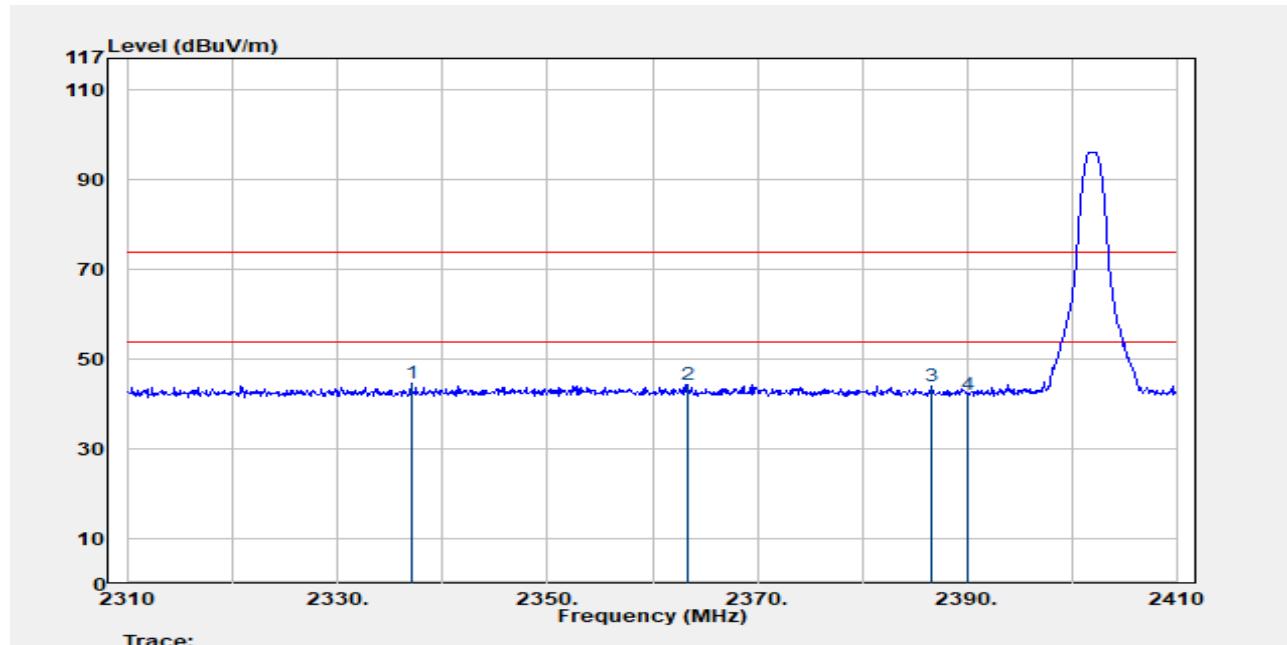


| Trace: | | | | | | |
|----------------|------------------------------|---|------------------------------|------------------------------------|---------------------------------------|----------------|
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
| 2323.400 | Peak | 43.11 | 1.03 | 44.14 | 74.00 | -29.86 |
| 2349.200 | Peak | 43.37 | 1.08 | 44.45 | 74.00 | -29.55 |
| 2370.200 | Peak | 44.01 | 1.08 | 45.09 | 74.00 | -28.91 |
| 2390.000 | Peak | 41.01 | 1.08 | 42.09 | 74.00 | -31.91 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dB μ V/m) | Average Limit@3m (dB μ V/m) | Margin (dB) |
| 2323.400 | Average | 44.14 | -24.93 | 19.21 | 54.00 | -34.79 |
| 2349.200 | Average | 44.45 | -24.93 | 19.52 | 54.00 | -34.48 |
| 2370.200 | Average | 45.09 | -24.93 | 20.16 | 54.00 | -33.84 |
| 2390.000 | Average | 42.09 | -24.93 | 17.16 | 54.00 | -36.84 |

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Report Number :ER/2022/30057 Test Site :SAC 3
 Operation Mode :BR Test Date :2022-04-06
 Test Frequency :2402 MHz Temp./Humi. :20.5/66
 Test Mode :Bandedge CH Low Antenna Pol. :Horizontal
 EUT Pol :E1 Plane Engineer :Jack Liu

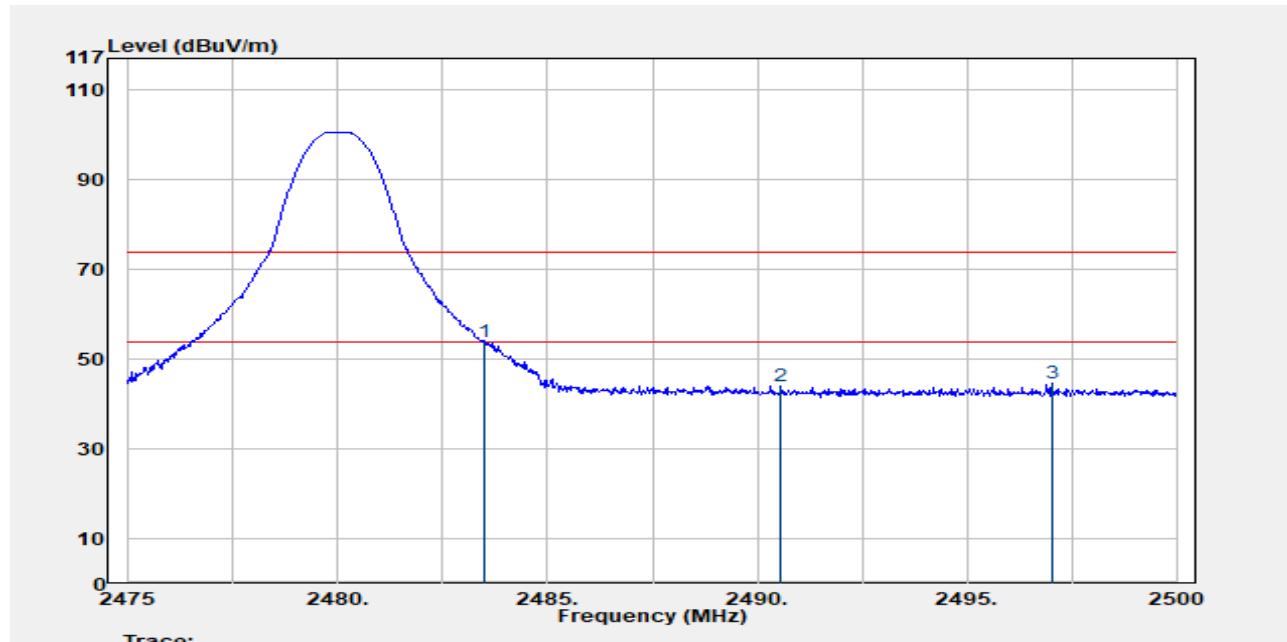


| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 2337.000 | Peak | 43.80 | 1.05 | 44.85 | 74.00 | -29.15 |
| 2363.300 | Peak | 43.23 | 1.08 | 44.31 | 74.00 | -29.69 |
| 2386.700 | Peak | 43.00 | 1.08 | 44.08 | 74.00 | -29.92 |
| 2390.000 | Peak | 41.12 | 1.08 | 42.20 | 74.00 | -31.80 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 2337.000 | Average | 44.85 | -24.93 | 19.92 | 54.00 | -34.08 |
| 2363.300 | Average | 44.31 | -24.93 | 19.38 | 54.00 | -34.62 |
| 2386.700 | Average | 44.08 | -24.93 | 19.15 | 54.00 | -34.85 |
| 2390.000 | Average | 42.20 | -24.93 | 17.27 | 54.00 | -36.73 |

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 Operation Mode :BR Test Date :2022-04-06
 Test Frequency :2480 MHz Temp./Humi. :20.5/66
 Test Mode :Bandedge CH High Antenna Pol. :Vertical
 EUT Pol :E1 Plane Engineer :Jack Liu



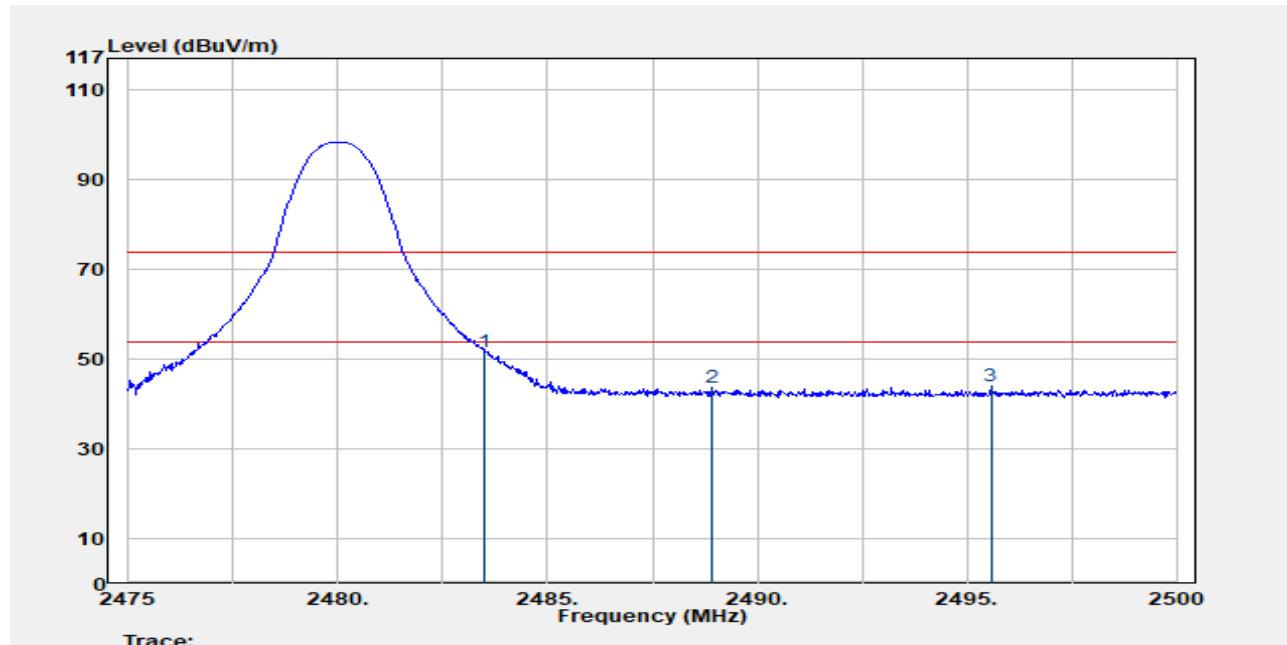
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 2483.500 | Peak | 53.10 | 0.76 | 53.86 | 74.00 | -20.14 |
| 2490.575 | Peak | 43.40 | 0.77 | 44.16 | 74.00 | -29.84 |
| 2497.025 | Peak | 43.80 | 0.78 | 44.58 | 74.00 | -29.42 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 2483.500 | Average | 53.86 | -24.93 | 28.93 | 54.00 | -25.07 |
| 2490.575 | Average | 44.16 | -24.93 | 19.23 | 54.00 | -34.77 |
| 2497.025 | Average | 44.58 | -24.93 | 19.65 | 54.00 | -34.35 |

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 Operation Mode :BR Test Date :2022-04-06
 Test Frequency :2480 MHz Temp./Humi. :20.5/66
 Test Mode :Bandedge CH High Antenna Pol. :Horizontal
 EUT Pol :E1 Plane Engineer :Jack Liu



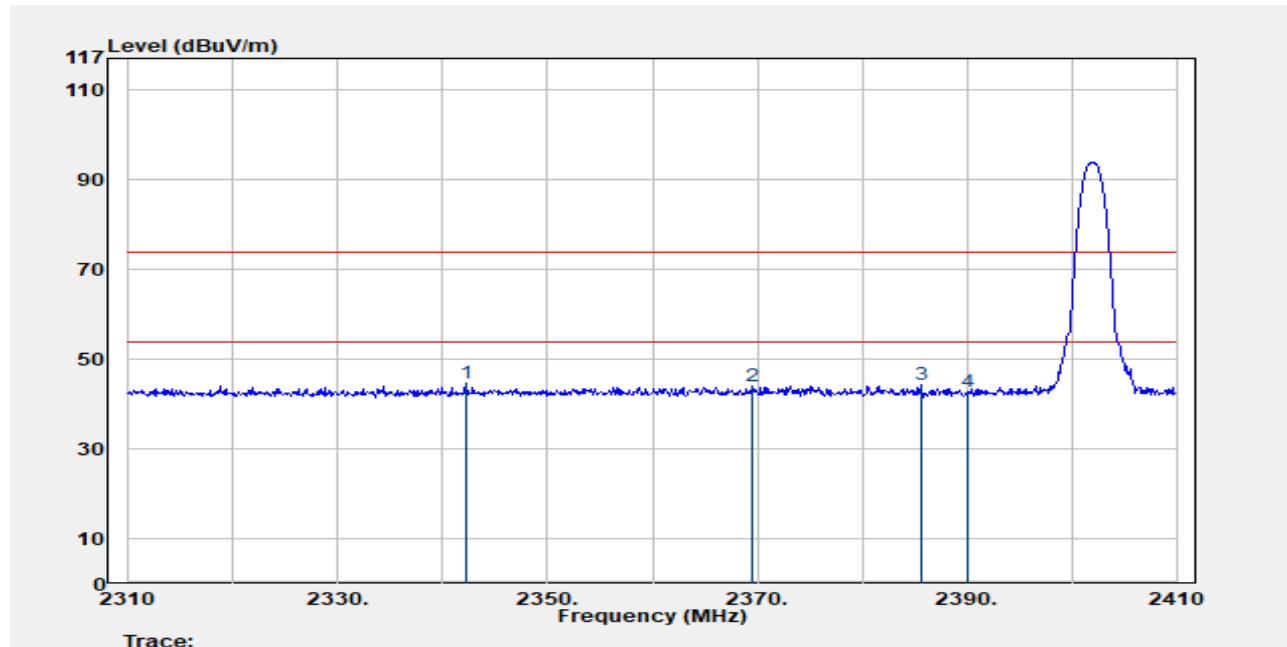
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.500 | Peak | 50.87 | 0.76 | 51.63 | 74.00 | -22.37 |
| 2488.900 | Peak | 42.94 | 0.76 | 43.70 | 74.00 | -30.30 |
| 2495.575 | Peak | 43.15 | 0.78 | 43.93 | 74.00 | -30.07 |

| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
|----------------|----------|-------------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 2483.500 | Average | 51.63 | -24.93 | 26.70 | 54.00 | -27.30 |
| 2488.900 | Average | 43.70 | -24.93 | 18.77 | 54.00 | -35.23 |
| 2495.575 | Average | 43.93 | -24.93 | 19.00 | 54.00 | -35.00 |

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 Operation Mode :EDR 3M Test Date :2022-04-06
 Test Frequency :2402 MHz Temp./Humi. :20.5/66
 Test Mode :Bandedge CH Low Antenna Pol. :Vertical
 EUT Pol :E1 Plane Engineer :Jack Liu

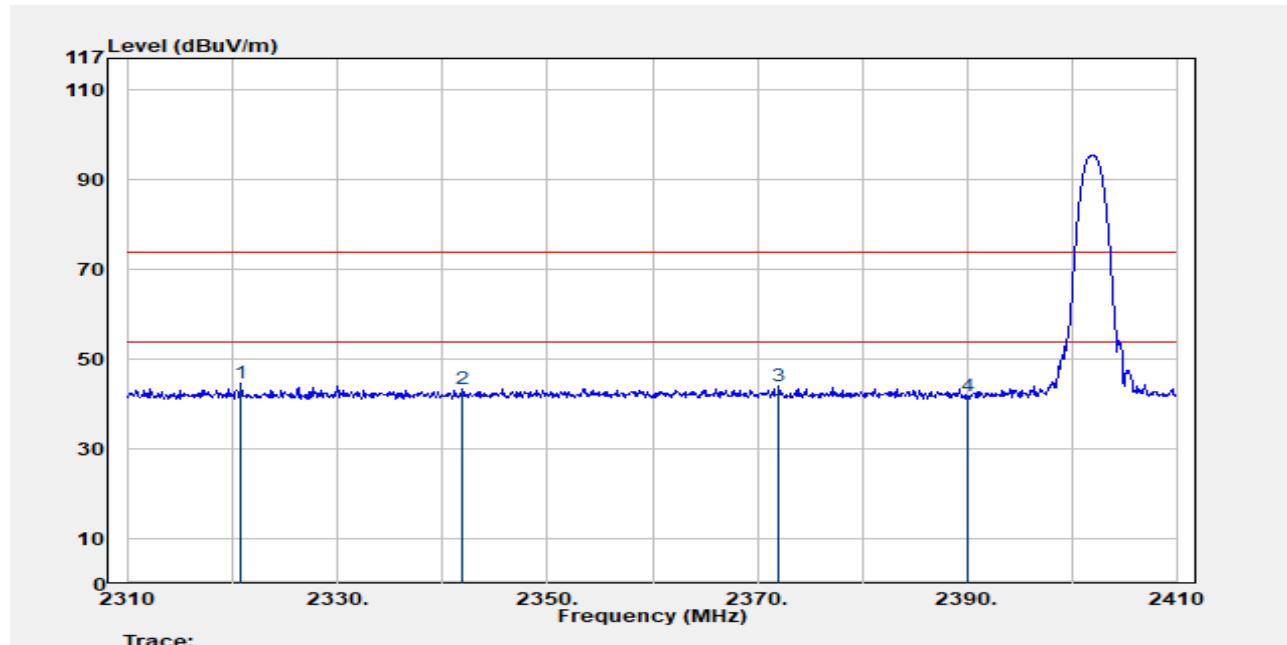


| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 2342.200 | Peak | 43.53 | 1.06 | 44.60 | 74.00 | -29.40 |
| 2369.500 | Peak | 43.08 | 1.08 | 44.16 | 74.00 | -29.84 |
| 2385.600 | Peak | 43.44 | 1.08 | 44.52 | 74.00 | -29.48 |
| 2390.000 | Peak | 41.60 | 1.08 | 42.68 | 74.00 | -31.32 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 2342.200 | Average | 44.60 | -25.46 | 19.14 | 54.00 | -34.86 |
| 2369.500 | Average | 44.16 | -25.46 | 18.70 | 54.00 | -35.30 |
| 2385.600 | Average | 44.52 | -25.46 | 19.06 | 54.00 | -34.94 |
| 2390.000 | Average | 42.68 | -25.46 | 17.22 | 54.00 | -36.78 |

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Report Number :ER/2022/30057 Test Site :SAC 3
 Operation Mode :EDR 3M Test Date :2022-04-06
 Test Frequency :2402 MHz Temp./Humi. :20.5/66
 Test Mode :Bandedge CH Low Antenna Pol. :Horizontal
 EUT Pol :E1 Plane Engineer :Jack Liu

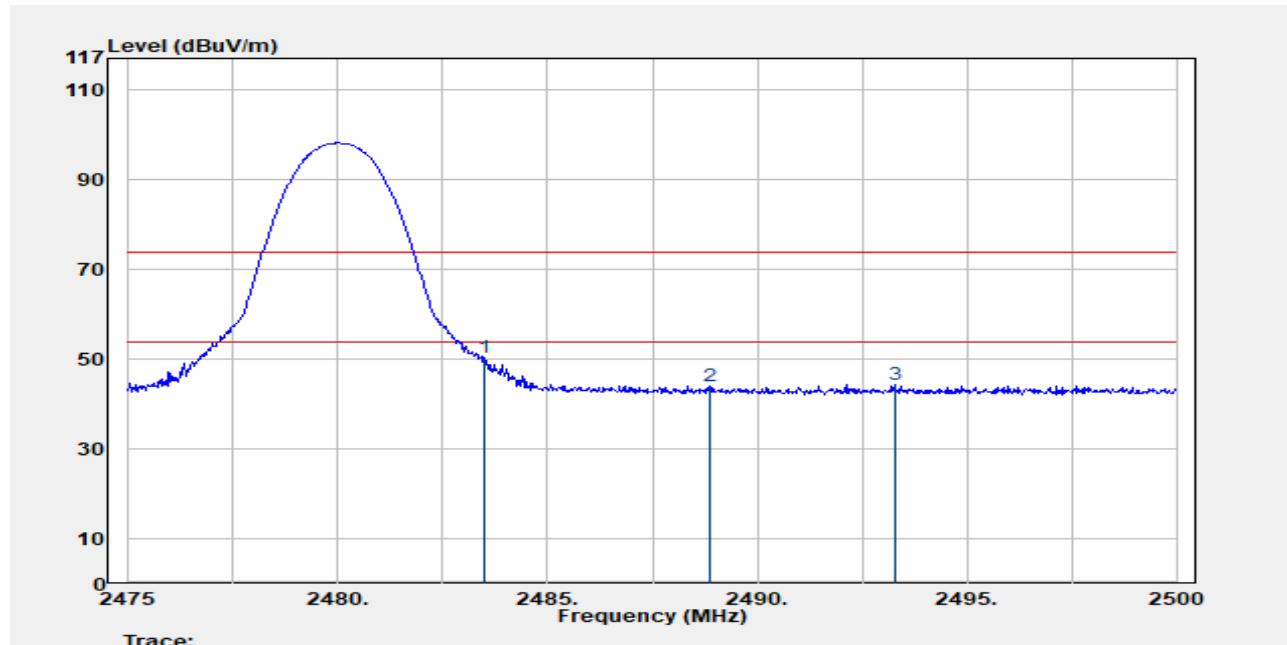


| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 2320.700 | Peak | 43.82 | 1.03 | 44.84 | 74.00 | -29.16 |
| 2341.900 | Peak | 42.47 | 1.06 | 43.53 | 74.00 | -30.47 |
| 2372.100 | Peak | 42.84 | 1.08 | 43.92 | 74.00 | -30.08 |
| 2390.000 | Peak | 40.88 | 1.08 | 41.96 | 74.00 | -32.04 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 2320.700 | Average | 44.84 | -25.46 | 19.38 | 54.00 | -34.62 |
| 2341.900 | Average | 43.53 | -25.46 | 18.07 | 54.00 | -35.93 |
| 2372.100 | Average | 43.92 | -25.46 | 18.46 | 54.00 | -35.54 |
| 2390.000 | Average | 41.96 | -25.46 | 16.50 | 54.00 | -37.50 |

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Report Number :ER/2022/30057 Test Site :SAC 3
 Operation Mode :EDR 3M Test Date :2022-04-06
 Test Frequency :2480 MHz Temp./Humi. :20.5/66
 Test Mode :Bandedge CH High Antenna Pol. :Vertical
 EUT Pol :E1 Plane Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.500 | Peak | 49.74 | 0.76 | 50.49 | 74.00 | -23.51 |
| 2488.875 | Peak | 43.39 | 0.76 | 44.15 | 74.00 | -29.85 |
| 2493.275 | Peak | 43.70 | 0.77 | 44.47 | 74.00 | -29.53 |

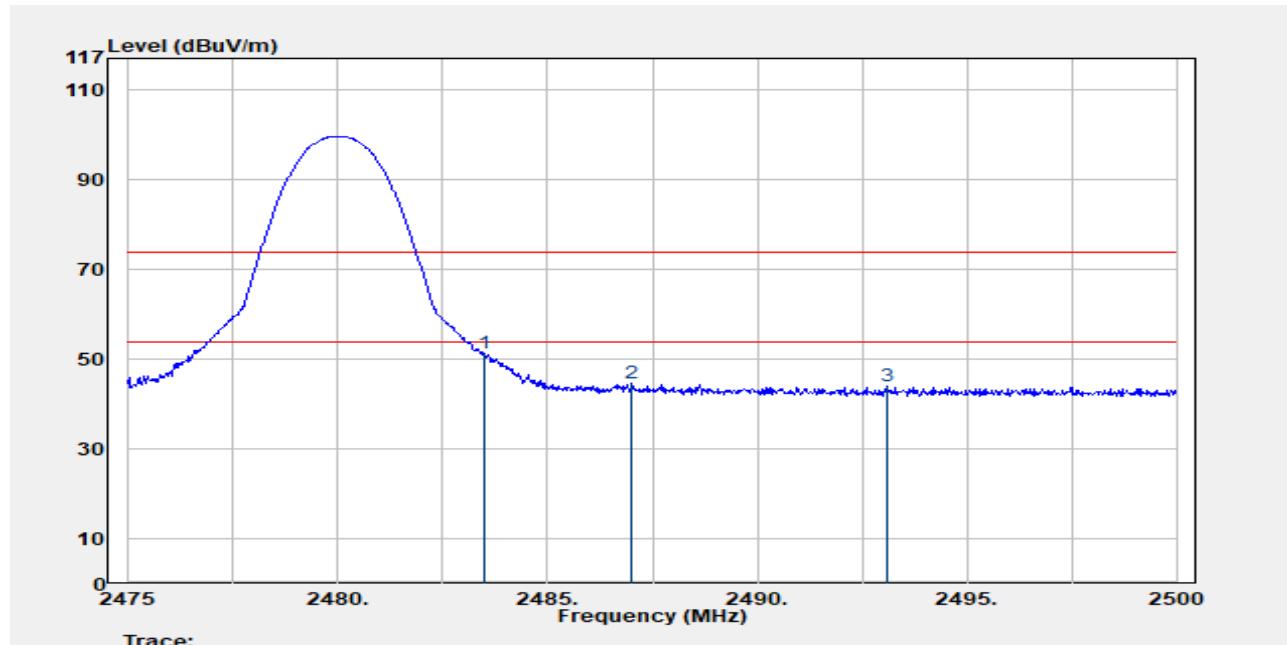
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
|----------------|----------|-------------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 2483.500 | Average | 50.49 | -25.46 | 25.03 | 54.00 | -28.97 |
| 2488.875 | Average | 44.15 | -25.46 | 18.69 | 54.00 | -35.31 |
| 2493.275 | Average | 44.47 | -25.46 | 19.01 | 54.00 | -34.99 |

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Report Number :ER/2022/30057
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2022-04-06
 Temp./Humi. :20.5/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.500 | Peak | 50.47 | 0.76 | 51.23 | 74.00 | -22.77 |
| 2487.000 | Peak | 43.99 | 0.76 | 44.76 | 74.00 | -29.24 |
| 2493.100 | Peak | 43.15 | 0.77 | 43.93 | 74.00 | -30.07 |

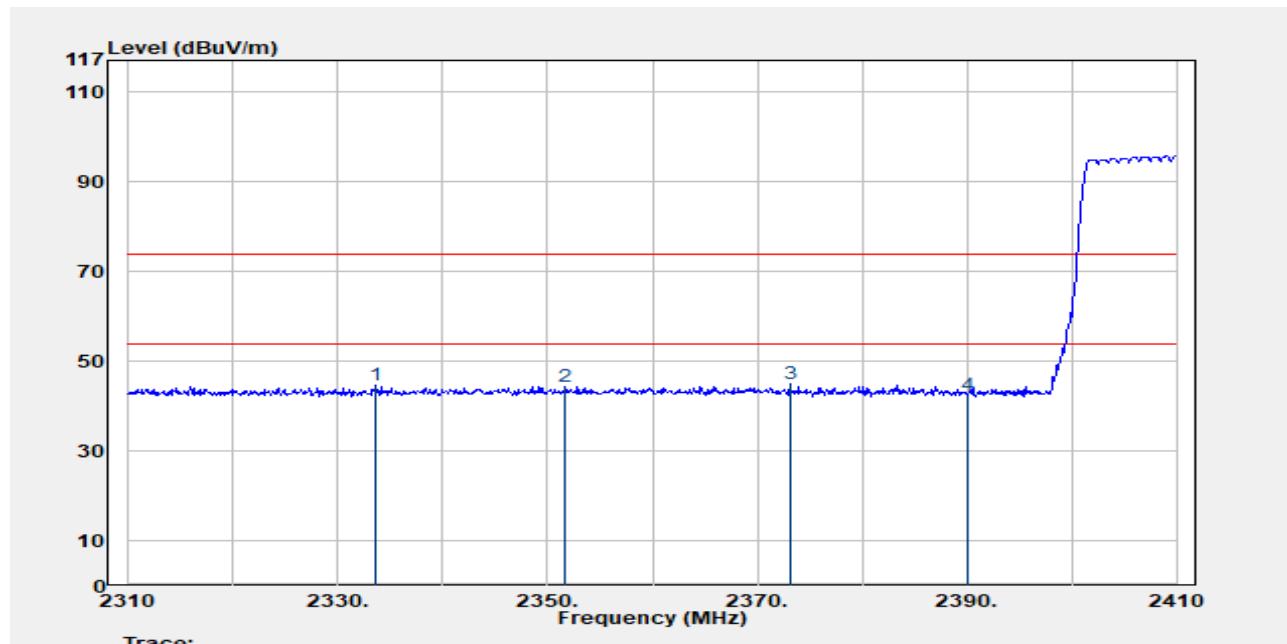
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
|----------------|----------|-------------------------------------|------------------------------|------------------------------|---------------------------------|----------------|
| 2483.500 | Average | 51.23 | -25.46 | 25.77 | 54.00 | -28.23 |
| 2487.000 | Average | 44.76 | -25.46 | 19.30 | 54.00 | -34.70 |
| 2493.100 | Average | 43.93 | -25.46 | 18.47 | 54.00 | -35.53 |

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Report Number :ER/2022/30057 Test Site :SAC 3
 Operation Mode :BR Hopping Test Date :2022-04-06
 Test Frequency :2402 MHz Temp./Humi. :20.5/66
 Test Mode :Bandedge CH Low Antenna Pol. :Vertical
 EUT Pol :E1 Plane Engineer :Jack Liu

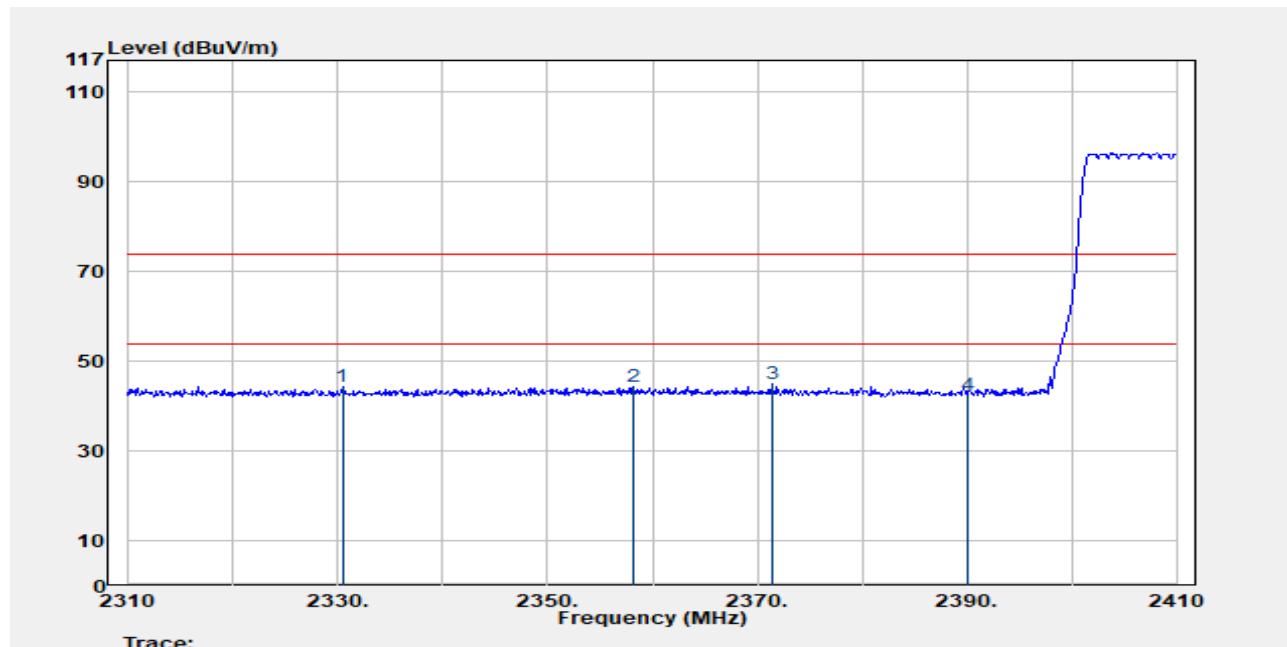


| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 2333.600 | Peak | 43.61 | 1.05 | 44.66 | 74.00 | -29.34 |
| 2351.700 | Peak | 43.41 | 1.08 | 44.49 | 74.00 | -29.51 |
| 2373.100 | Peak | 43.80 | 1.08 | 44.88 | 74.00 | -29.12 |
| 2390.000 | Peak | 41.56 | 1.08 | 42.64 | 74.00 | -31.36 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 2333.600 | Average | 44.66 | -24.93 | 19.73 | 54.00 | -34.27 |
| 2351.700 | Average | 44.49 | -24.93 | 19.56 | 54.00 | -34.44 |
| 2373.100 | Average | 44.88 | -24.93 | 19.95 | 54.00 | -34.05 |
| 2390.000 | Average | 42.64 | -24.93 | 17.71 | 54.00 | -36.29 |

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Report Number :ER/2022/30057 Test Site :SAC 3
 Operation Mode :BR Hopping Test Date :2022-04-06
 Test Frequency :2402 MHz Temp./Humi. :20.5/66
 Test Mode :Bandedge CH Low Antenna Pol. :Horizontal
 EUT Pol :E1 Plane Engineer :Jack Liu



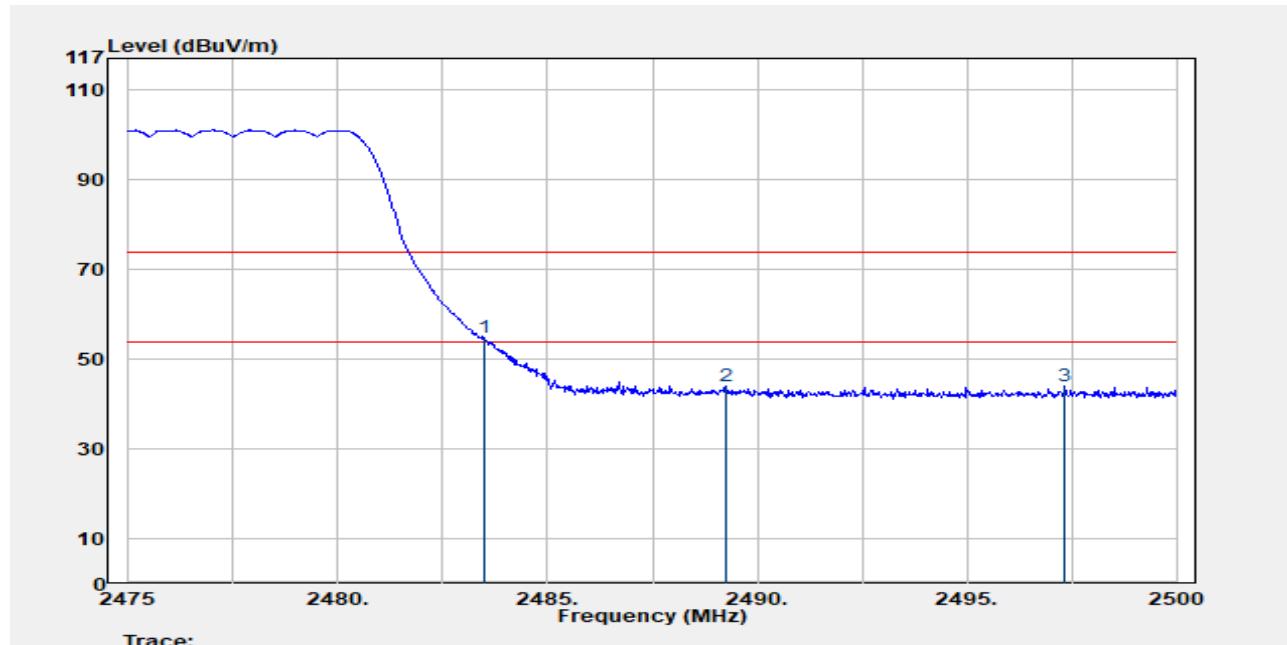
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 2330.400 | Peak | 43.33 | 1.04 | 44.38 | 74.00 | -29.62 |
| 2358.100 | Peak | 43.17 | 1.08 | 44.25 | 74.00 | -29.75 |
| 2371.400 | Peak | 43.81 | 1.08 | 44.88 | 74.00 | -29.12 |
| 2390.000 | Peak | 41.45 | 1.08 | 42.53 | 74.00 | -31.47 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 2330.400 | Average | 44.38 | -24.93 | 19.45 | 54.00 | -34.55 |
| 2358.100 | Average | 44.25 | -24.93 | 19.32 | 54.00 | -34.68 |
| 2371.400 | Average | 44.88 | -24.93 | 19.95 | 54.00 | -34.05 |
| 2390.000 | Average | 42.53 | -24.93 | 17.60 | 54.00 | -36.40 |

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Report Number :ER/2022/30057
 Operation Mode :BR Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2022-04-06
 Temp./Humi. :20.5/66
 Antenna Pol. :Vertical
 Engineer :Jack Liu



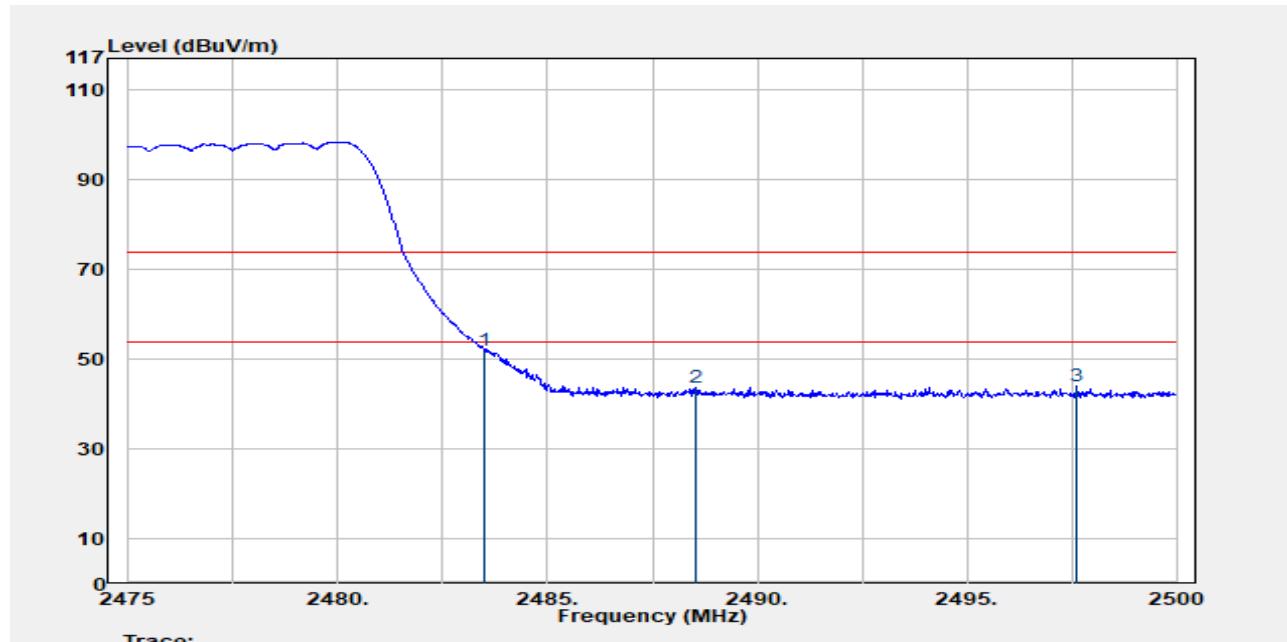
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 2483.500 | Peak | 54.23 | 0.76 | 54.98 | 74.00 | -19.02 |
| 2489.250 | Peak | 43.29 | 0.76 | 44.06 | 74.00 | -29.94 |
| 2497.350 | Peak | 43.37 | 0.78 | 44.14 | 74.00 | -29.86 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 2483.500 | Average | 54.98 | -24.93 | 30.05 | 54.00 | -23.95 |
| 2489.250 | Average | 44.06 | -24.93 | 19.13 | 54.00 | -34.87 |
| 2497.350 | Average | 44.14 | -24.93 | 19.21 | 54.00 | -34.79 |

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Report Number :ER/2022/30057 Test Site :SAC 3
 Operation Mode :BR Hopping Test Date :2022-04-06
 Test Frequency :2480 MHz Temp./Humi. :20.5/66
 Test Mode :Bandedge CH High Antenna Pol. :Horizontal
 EUT Pol :E1 Plane Engineer :Jack Liu

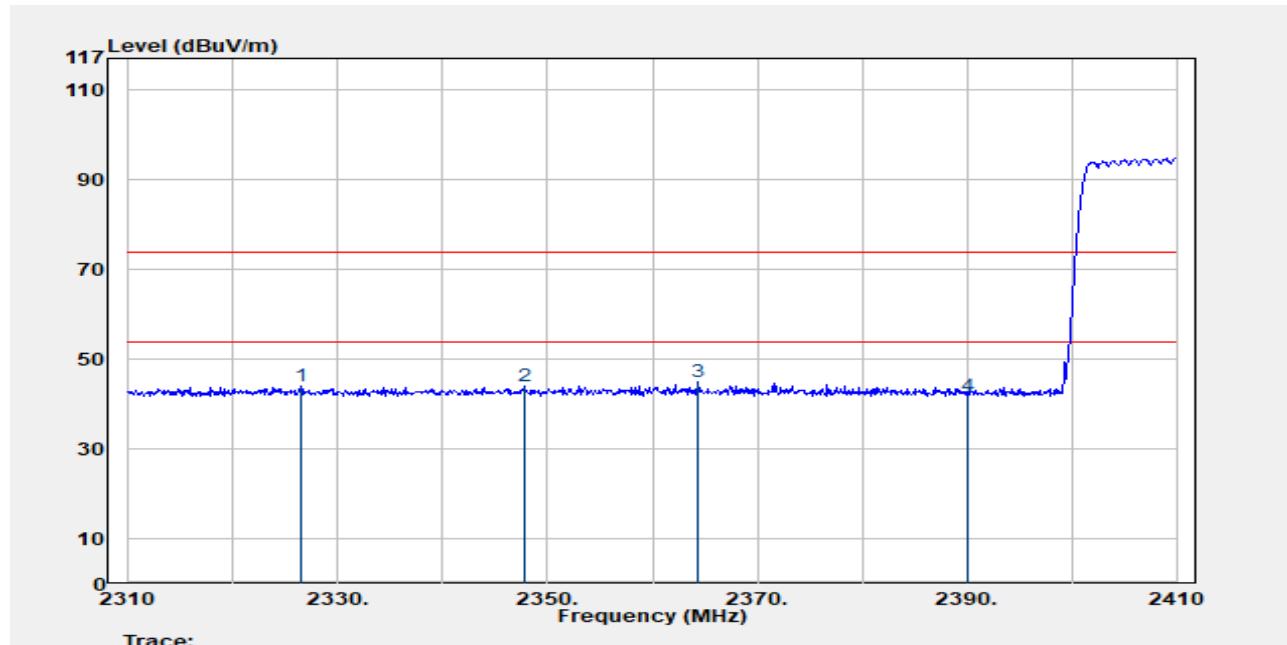


| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 2483.500 | Peak | 51.14 | 0.76 | 51.90 | 74.00 | -22.10 |
| 2488.550 | Peak | 43.12 | 0.76 | 43.88 | 74.00 | -30.12 |
| 2497.625 | Peak | 43.21 | 0.78 | 43.99 | 74.00 | -30.01 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 2483.500 | Average | 51.90 | -24.93 | 26.97 | 54.00 | -27.03 |
| 2488.550 | Average | 43.88 | -24.93 | 18.95 | 54.00 | -35.05 |
| 2497.625 | Average | 43.99 | -24.93 | 19.06 | 54.00 | -34.94 |

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Report Number :ER/2022/30057 Test Site :SAC 3
 Operation Mode :EDR 3M Hopping Test Date :2022-04-06
 Test Frequency :2402 MHz Temp./Humi. :20.5/66
 Test Mode :Bandedge CH Low Antenna Pol. :Vertical
 EUT Pol :E1 Plane Engineer :Jack Liu



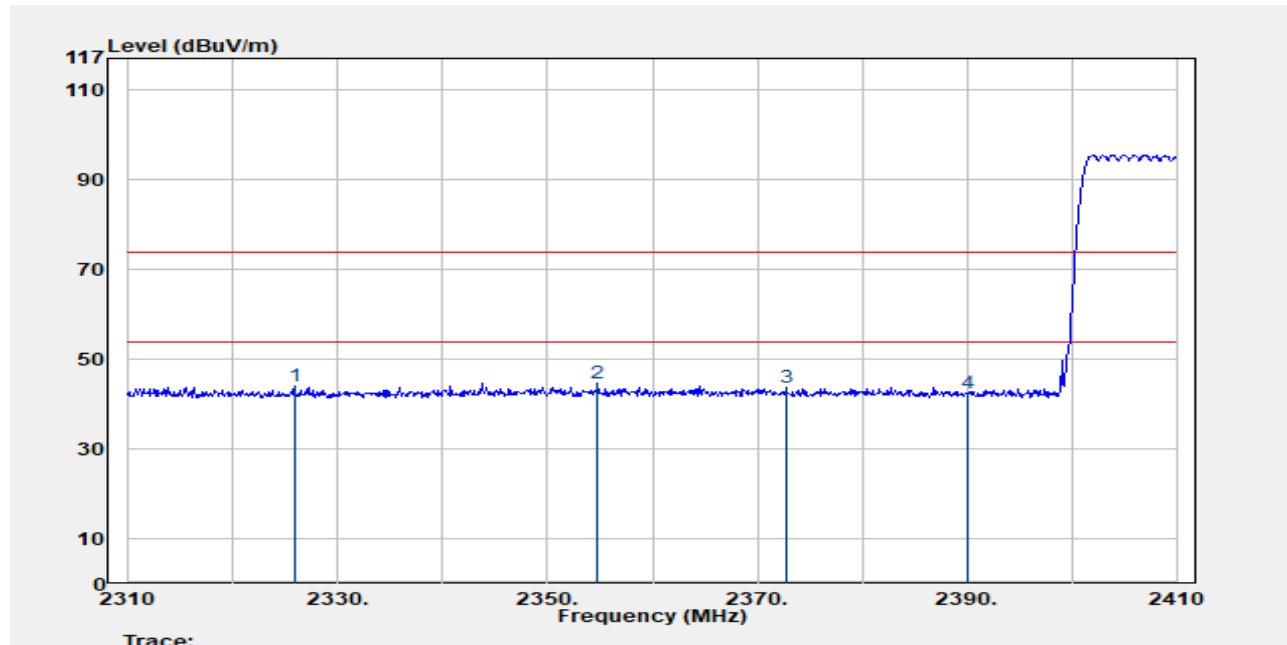
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 2326.500 | Peak | 42.89 | 1.04 | 43.93 | 74.00 | -30.07 |
| 2347.800 | Peak | 43.11 | 1.07 | 44.19 | 74.00 | -29.81 |
| 2364.400 | Peak | 43.95 | 1.08 | 45.03 | 74.00 | -28.97 |
| 2390.000 | Peak | 40.87 | 1.08 | 41.95 | 74.00 | -32.05 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 2326.500 | Average | 43.93 | -25.46 | 18.47 | 54.00 | -35.53 |
| 2347.800 | Average | 44.19 | -25.46 | 18.73 | 54.00 | -35.27 |
| 2364.400 | Average | 45.03 | -25.46 | 19.57 | 54.00 | -34.43 |
| 2390.000 | Average | 41.95 | -25.46 | 16.49 | 54.00 | -37.51 |

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Report Number :ER/2022/30057 Test Site :SAC 3
 Operation Mode :EDR 3M Hopping Test Date :2022-04-06
 Test Frequency :2402 MHz Temp./Humi. :20.5/66
 Test Mode :Bandedge CH Low Antenna Pol. :Horizontal
 EUT Pol :E1 Plane Engineer :Jack Liu



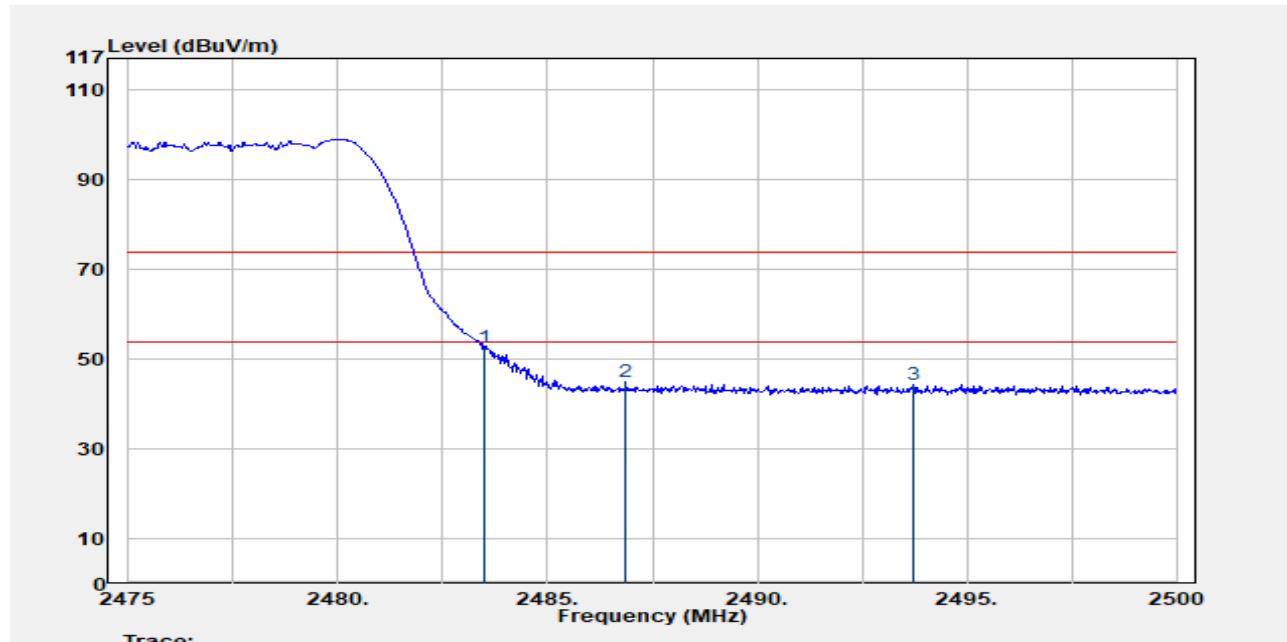
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
|-------------|----------|-------------------------------|------------------------|------------------------|---------------------------|-------------|
| 2325.800 | Average | 44.06 | -25.46 | 18.60 | 54.00 | -35.40 |
| 2354.800 | Average | 44.60 | -25.46 | 19.14 | 54.00 | -34.86 |
| 2372.700 | Average | 43.74 | -25.46 | 18.28 | 54.00 | -35.72 |
| 2390.000 | Average | 42.57 | -25.46 | 17.11 | 54.00 | -36.89 |

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Report Number :ER/2022/30057 Test Site :SAC 3
 Operation Mode :EDR 3M Hopping Test Date :2022-04-06
 Test Frequency :2480 MHz Temp./Humi. :20.5/66
 Test Mode :Bandedge CH High Antenna Pol. :Vertical
 EUT Pol :E1 Plane Engineer :Jack Liu



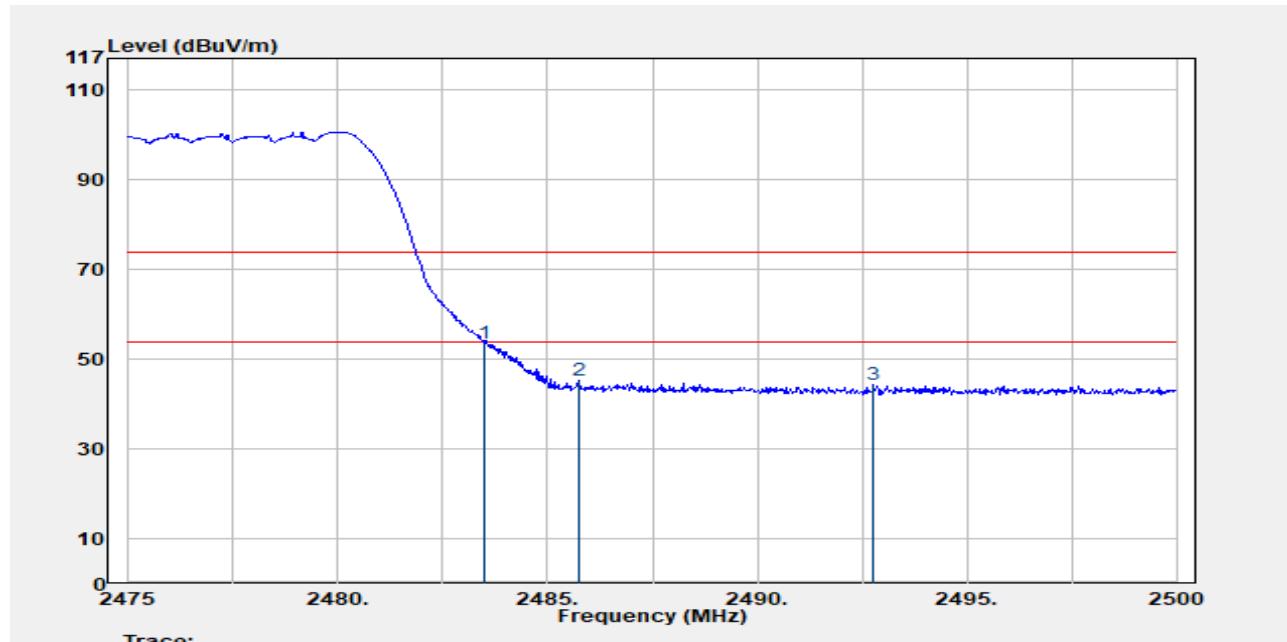
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 2483.500 | Peak | 51.94 | 0.76 | 52.70 | 74.00 | -21.30 |
| 2486.875 | Peak | 44.21 | 0.76 | 44.97 | 74.00 | -29.03 |
| 2493.725 | Peak | 43.49 | 0.77 | 44.26 | 74.00 | -29.74 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 2483.500 | Average | 52.70 | -25.46 | 27.24 | 54.00 | -26.76 |
| 2486.875 | Average | 44.97 | -25.46 | 19.51 | 54.00 | -34.49 |
| 2493.725 | Average | 44.26 | -25.46 | 18.80 | 54.00 | -35.20 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Report Number :ER/2022/30057
 Operation Mode :EDR 3M Hopping
 Test Frequency :2480 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2022-04-06
 Temp./Humi. :20.5/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



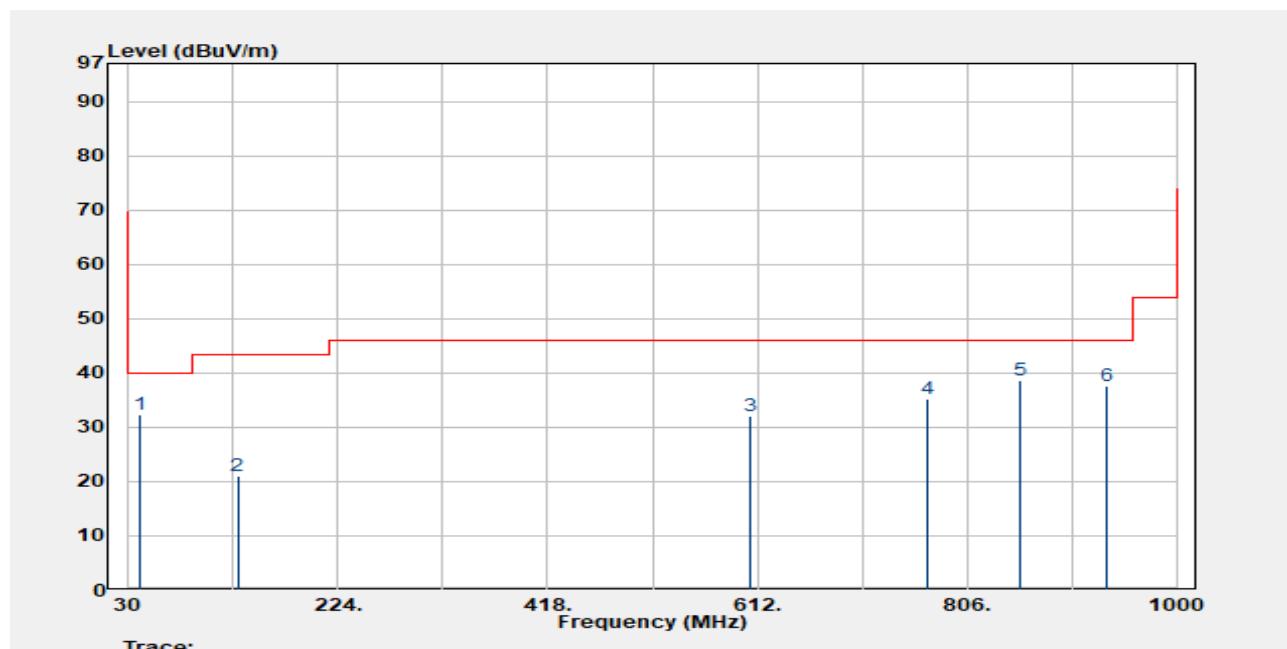
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 2483.500 | Peak | 52.97 | 0.76 | 53.72 | 74.00 | -20.28 |
| 2485.725 | Peak | 44.59 | 0.76 | 45.35 | 74.00 | -28.65 |
| 2492.775 | Peak | 43.74 | 0.77 | 44.51 | 74.00 | -29.49 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 2483.500 | Average | 53.72 | -25.46 | 28.26 | 54.00 | -25.74 |
| 2485.725 | Average | 45.35 | -25.46 | 19.89 | 54.00 | -34.11 |
| 2492.775 | Average | 44.51 | -25.46 | 19.05 | 54.00 | -34.95 |

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11.6.4 Radiated Spurious Emission

| | | | |
|----------------|----------------|--------------|-------------|
| Report Number | :ER/2022/30057 | Test Site | :SAC 3 |
| Operation Mode | :BR | Test Date | :2022-04-06 |
| Test Frequency | :2441 MHz | Temp./Humi. | :20.5/66 |
| Test Mode | :Tx CH Mid | Antenna Pol. | :Vertical |
| EUT Pol | :E1 Plane | Engineer | :Jack Liu |



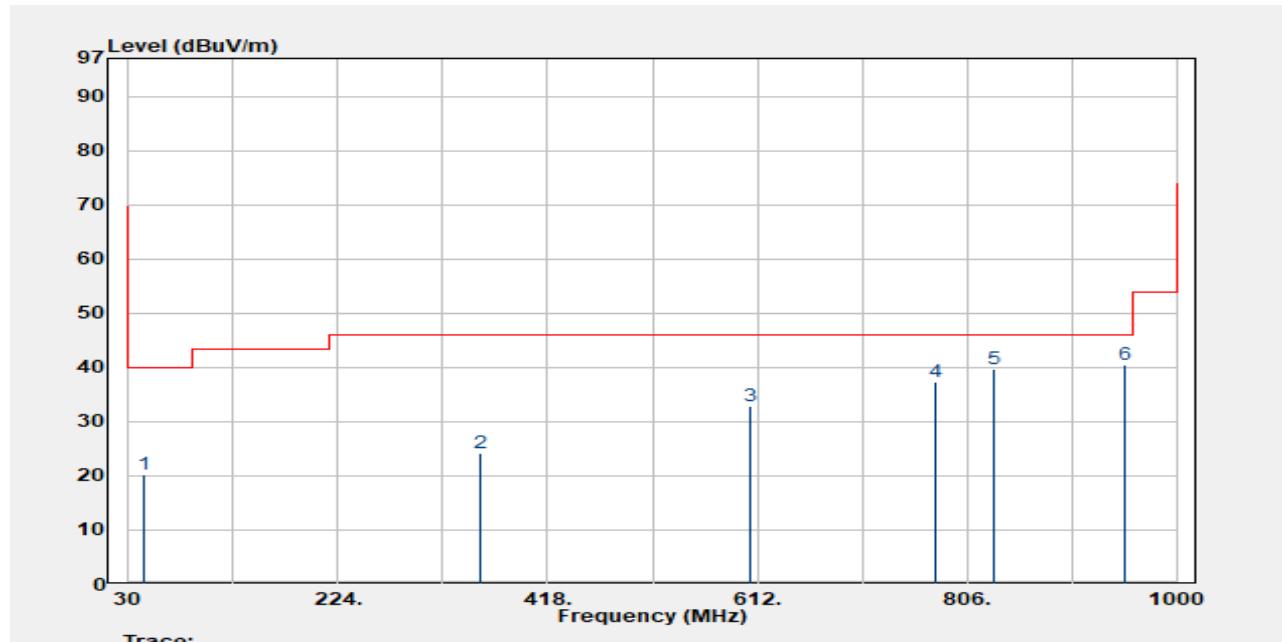
| Trace: | Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| | 39.700 | Peak | 40.70 | -8.46 | 32.24 | 40.00 | -7.76 |
| | 130.880 | Peak | 29.50 | -8.43 | 21.07 | 43.50 | -22.43 |
| | 605.210 | Peak | 31.52 | 0.49 | 32.02 | 46.00 | -13.98 |
| | 769.140 | Peak | 32.30 | 2.83 | 35.13 | 46.00 | -10.87 |
| | 854.500 | Peak | 34.22 | 4.31 | 38.53 | 46.00 | -7.47 |
| | 935.010 | Peak | 32.22 | 5.49 | 37.71 | 46.00 | -8.29 |

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Report Number :ER/2022/30057
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2022-04-06
 Temp./Humi. :20.5/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu

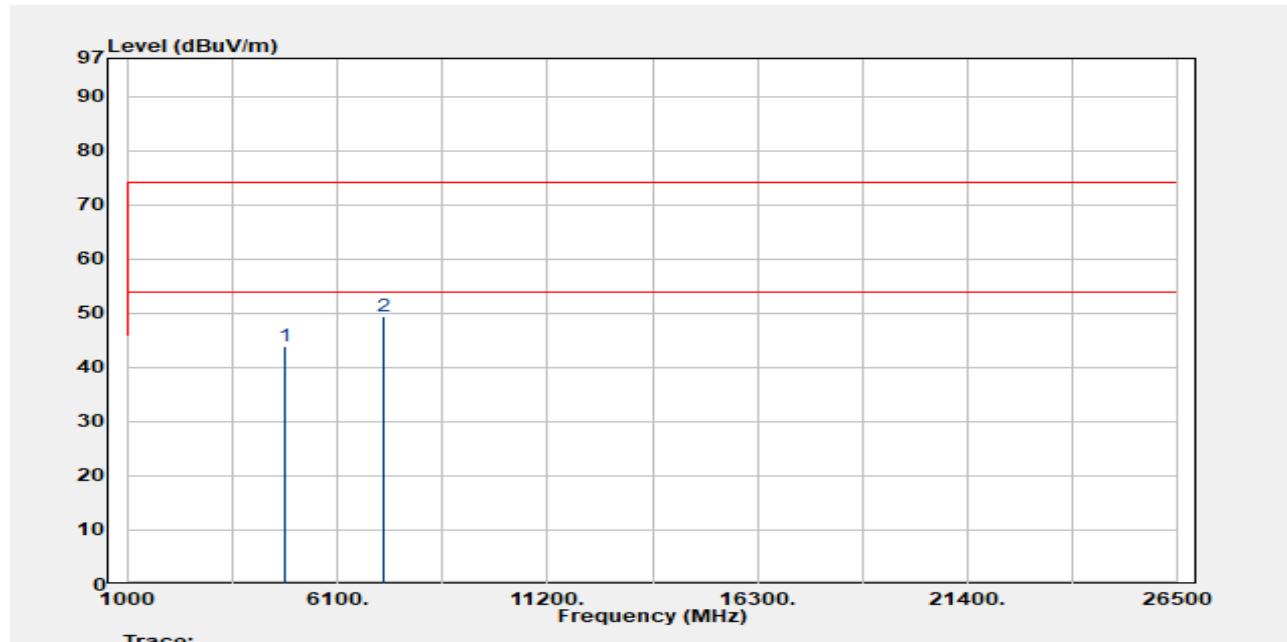


| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 44.550 | Peak | 28.48 | -8.13 | 20.35 | 40.00 | -19.65 |
| 355.920 | Peak | 28.87 | -4.74 | 24.12 | 46.00 | -21.88 |
| 605.210 | Peak | 32.34 | 0.49 | 32.83 | 46.00 | -13.17 |
| 776.900 | Peak | 34.58 | 2.86 | 37.44 | 46.00 | -8.56 |
| 830.250 | Peak | 35.49 | 4.18 | 39.68 | 46.00 | -6.32 |
| 951.500 | Peak | 34.99 | 5.37 | 40.36 | 46.00 | -5.64 |

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Report Number :ER/2022/30057 Test Site :SAC 3
 Operation Mode :BR Test Date :2022-04-06
 Test Frequency :2402 MHz Temp./Humi. :20.5/66
 Test Mode :Tx CH Low Antenna Pol. :Vertical
 EUT Pol :E1 Plane Engineer :Jack Liu

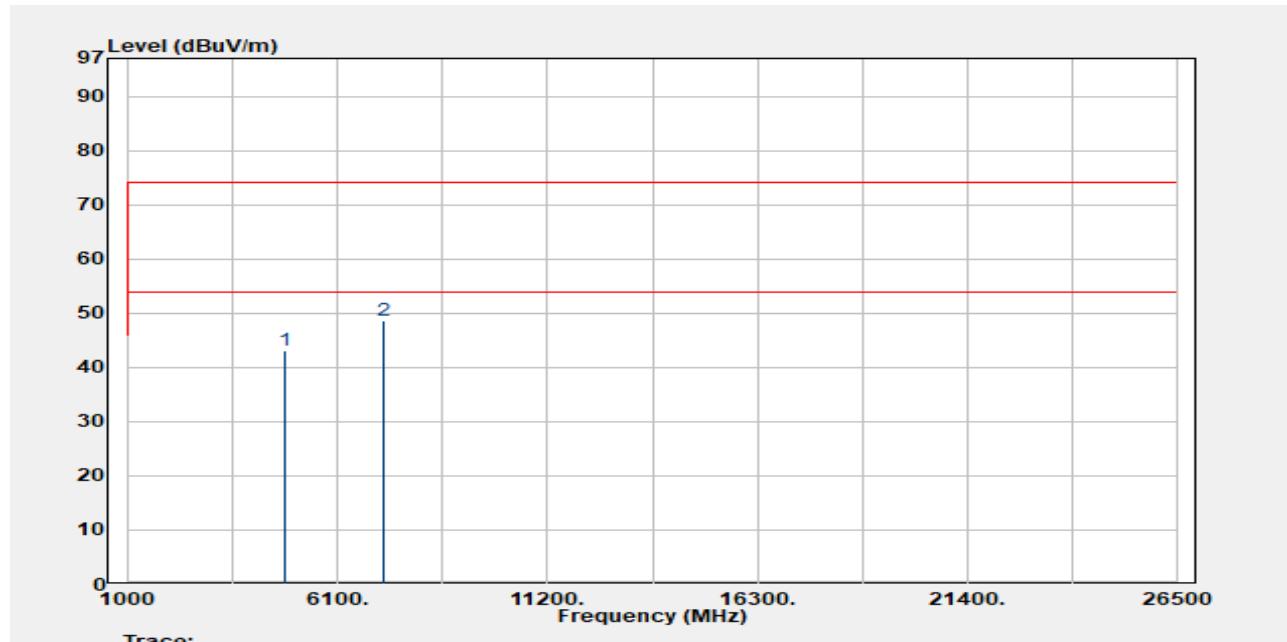


| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 4804.000 | Peak | 36.28 | 7.62 | 43.90 | 74.00 | -30.10 |
| 7206.000 | Peak | 35.20 | 14.30 | 49.50 | 74.00 | -24.50 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 4804.000 | Average | 43.90 | -24.93 | 18.97 | 54.00 | -35.03 |
| 7206.000 | Average | 49.50 | -24.93 | 24.57 | 54.00 | -29.43 |

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Report Number :ER/2022/30057
 Operation Mode :BR
 Test Frequency :2402 MHz
 Test Mode :Tx CH Low
 EUT Pol :E1 Plane
 Test Site :SAC 3
 Test Date :2022-04-06
 Temp./Humi. :20.5/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu

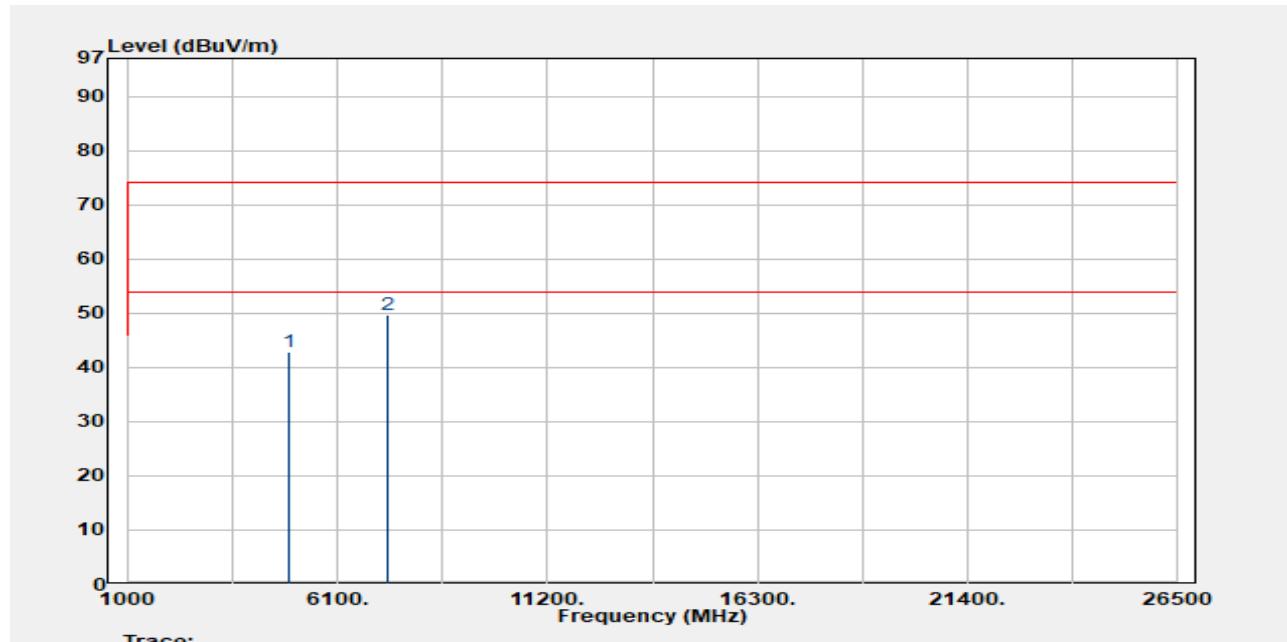


| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dB μ V/m) | Margin (dB) |
|-------------|----------|-------------------------------|------------------------|------------------------|---------------------------------|-------------|
| 4804.000 | Average | 43.02 | -24.93 | 18.09 | 54.00 | -35.91 |
| 7206.000 | Average | 48.57 | -24.93 | 23.64 | 54.00 | -30.36 |

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Report Number :ER/2022/30057
 Operation Mode :BR
 Test Frequency :2441 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E1 Plane
 Test Site :SAC 3
 Test Date :2022-04-06
 Temp./Humi. :20.5/66
 Antenna Pol. :Vertical
 Engineer :Jack Liu

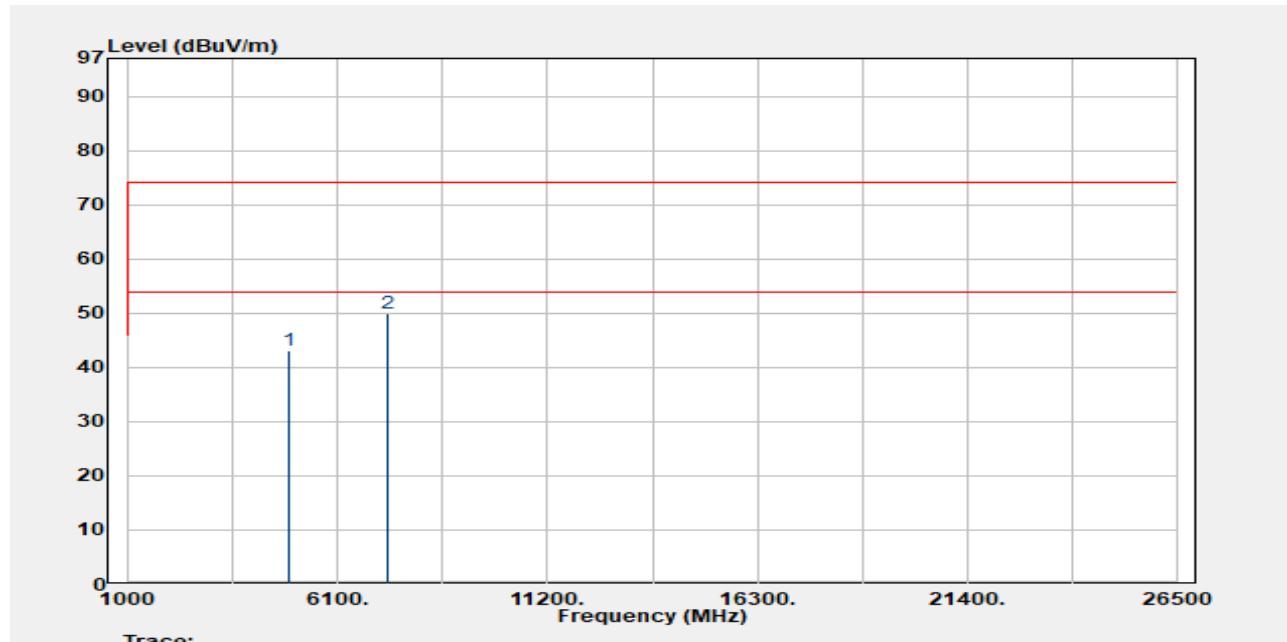


| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 4882.000 | Peak | 35.20 | 7.73 | 42.93 | 74.00 | -31.07 |
| 7323.000 | Peak | 34.20 | 15.38 | 49.58 | 74.00 | -24.42 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 4882.000 | Average | 42.93 | -24.93 | 18.00 | 54.00 | -36.00 |
| 7323.000 | Average | 49.58 | -24.93 | 24.65 | 54.00 | -29.35 |

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Report Number :ER/2022/30057 Test Site :SAC 3
 Operation Mode :BR Test Date :2022-04-06
 Test Frequency :2441 MHz Temp./Humi. :20.5/66
 Test Mode :Tx CH Mid Antenna Pol. :Horizontal
 EUT Pol :E1 Plane Engineer :Jack Liu

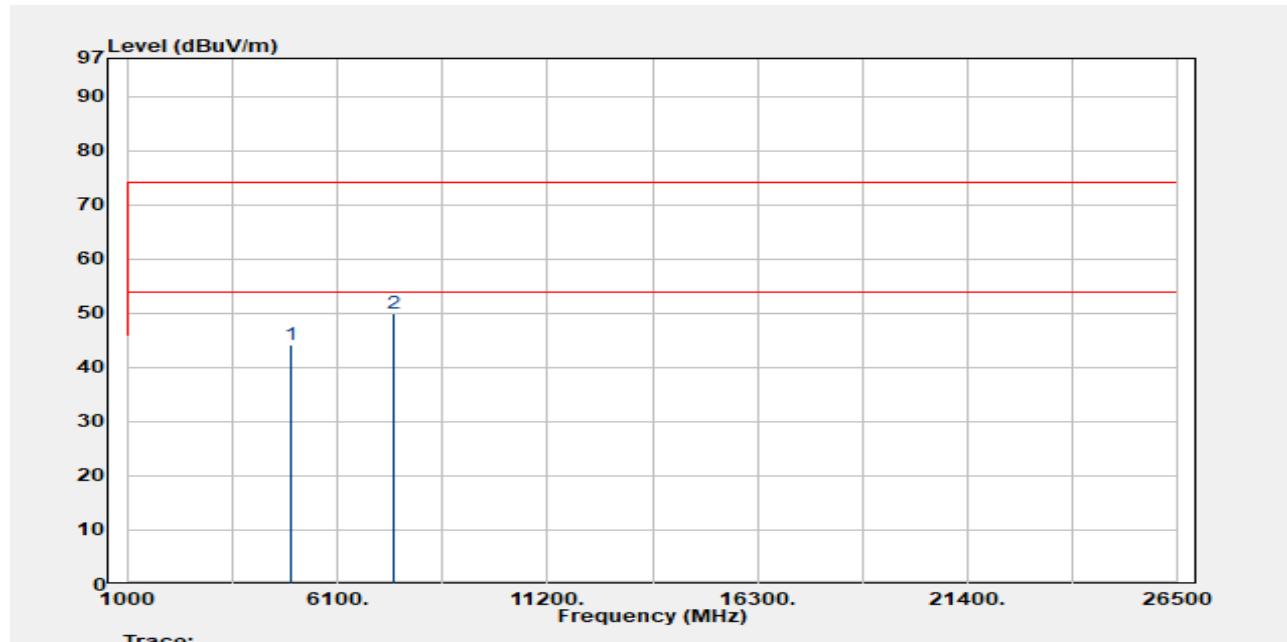


| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 4882.000 | Peak | 35.33 | 7.73 | 43.06 | 74.00 | -30.94 |
| 7323.000 | Peak | 34.50 | 15.38 | 49.89 | 74.00 | -24.11 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 4882.000 | Average | 43.06 | -24.93 | 18.13 | 54.00 | -35.87 |
| 7323.000 | Average | 49.89 | -24.93 | 24.96 | 54.00 | -29.04 |

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Report Number :ER/2022/30057
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Tx CH High
 EUT Pol :E1 Plane
 Test Site :SAC 3
 Test Date :2022-04-06
 Temp./Humi. :20.5/66
 Antenna Pol. :Vertical
 Engineer :Jack Liu

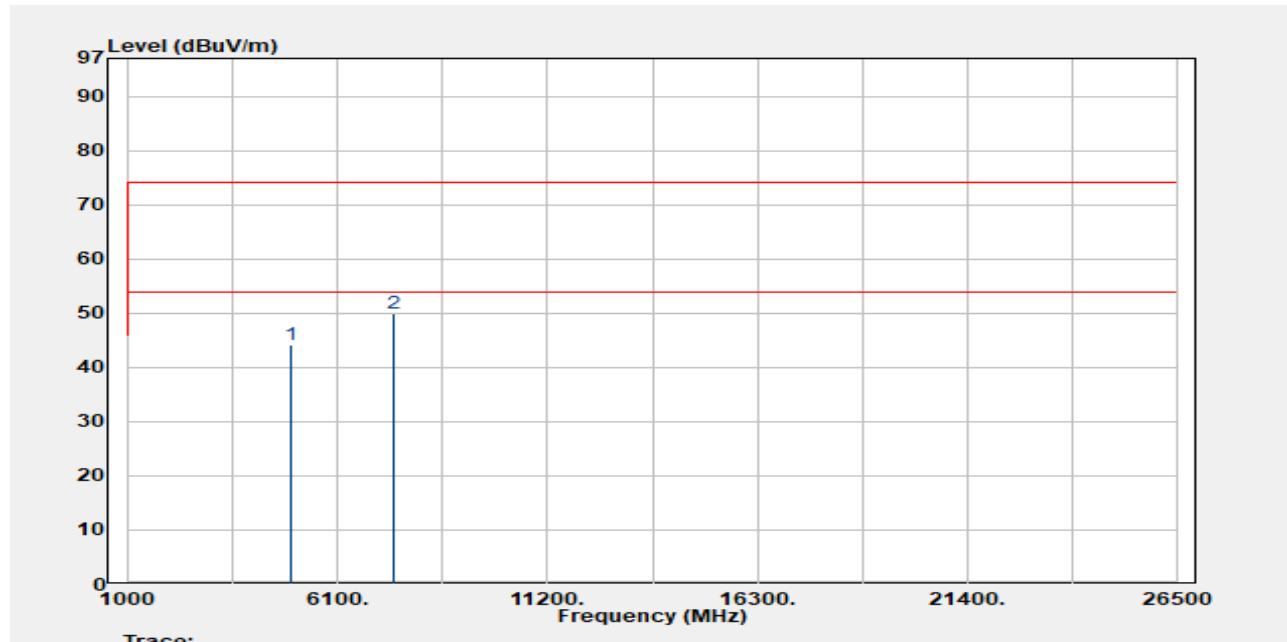


| Trace: | | | | | | |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
| 4960.000 | Peak | 35.87 | 8.31 | 44.18 | 74.00 | -29.82 |
| 7440.000 | Peak | 34.76 | 15.15 | 49.90 | 74.00 | -24.10 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 4960.000 | Average | 44.18 | -24.93 | 19.25 | 54.00 | -34.75 |
| 7440.000 | Average | 49.90 | -24.93 | 24.97 | 54.00 | -29.03 |

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Report Number :ER/2022/30057
 Operation Mode :BR
 Test Frequency :2480 MHz
 Test Mode :Tx CH High
 EUT Pol :E1 Plane
 Test Site :SAC 3
 Test Date :2022-04-06
 Temp./Humi. :20.5/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu

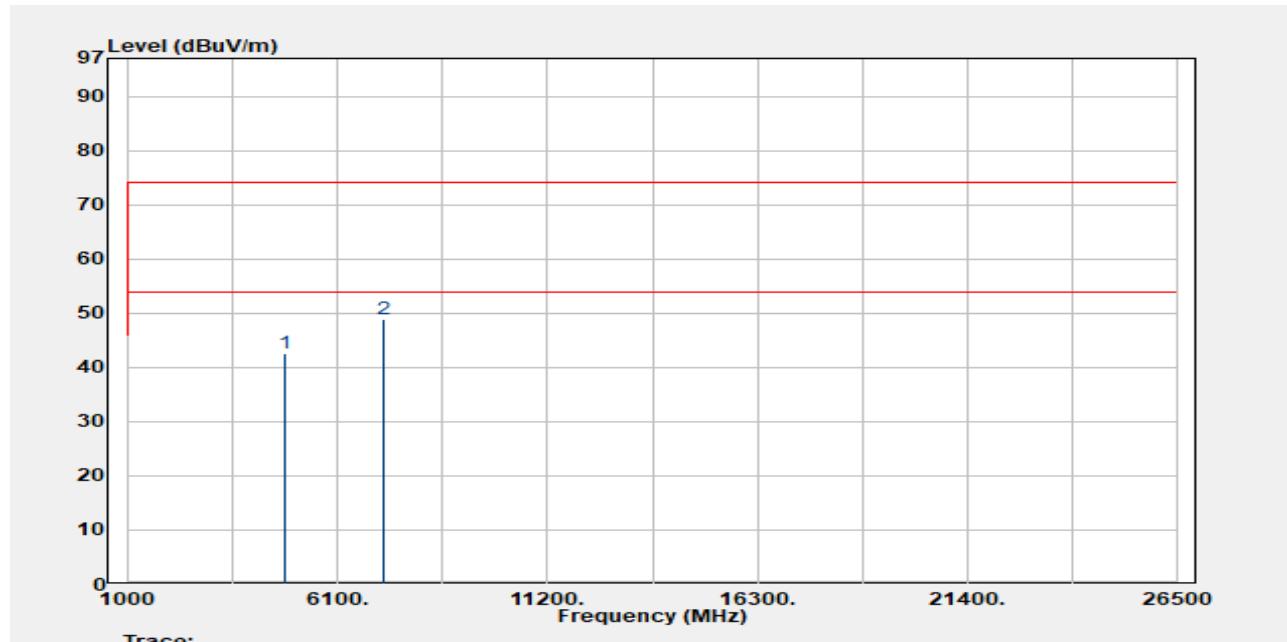


| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 4960.000 | Peak | 35.81 | 8.31 | 44.12 | 74.00 | -29.88 |
| 7440.000 | Peak | 34.77 | 15.15 | 49.92 | 74.00 | -24.08 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 4960.000 | Average | 44.12 | -24.93 | 19.19 | 54.00 | -34.81 |
| 7440.000 | Average | 49.92 | -24.93 | 24.99 | 54.00 | -29.01 |

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Report Number :ER/2022/30057
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Tx CH Low
 EUT Pol :E1 Plane
 Test Site :SAC 3
 Test Date :2022-04-06
 Temp./Humi. :20.5/66
 Antenna Pol. :Vertical
 Engineer :Jack Liu



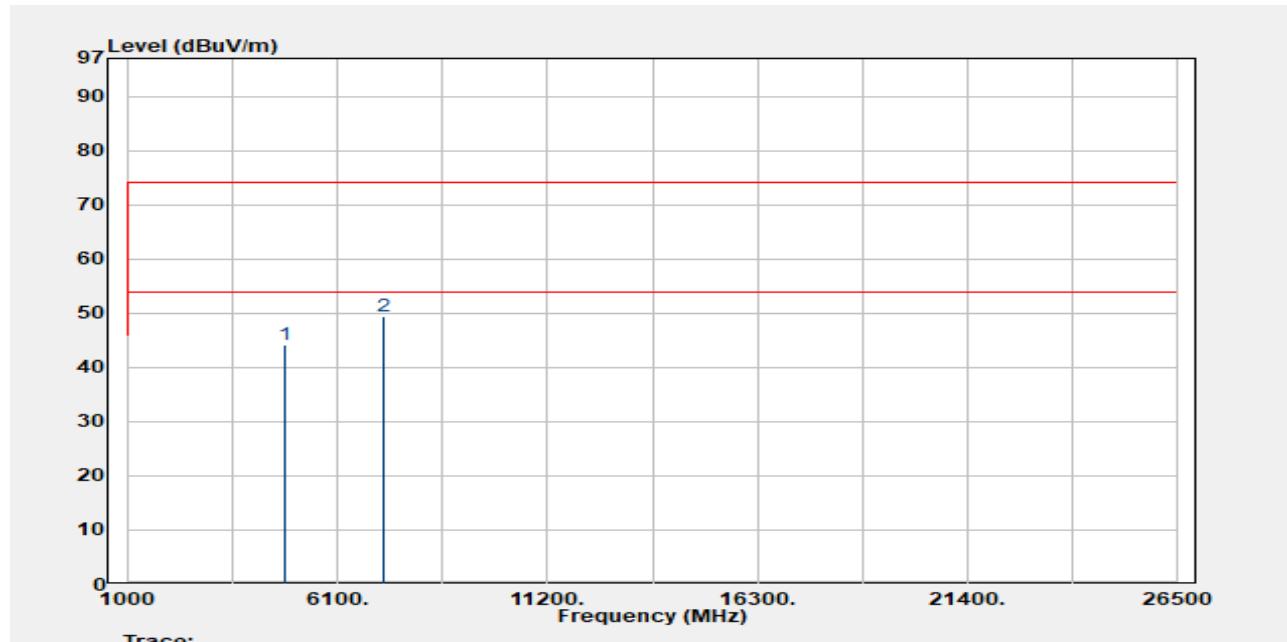
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 4804.000 | Peak | 34.98 | 7.62 | 42.60 | 74.00 | -31.40 |
| 7206.000 | Peak | 34.47 | 14.30 | 48.77 | 74.00 | -25.23 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 4804.000 | Average | 42.60 | -25.46 | 17.14 | 54.00 | -36.86 |
| 7206.000 | Average | 48.77 | -25.46 | 23.31 | 54.00 | -30.69 |

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Report Number :ER/2022/30057
 Operation Mode :EDR 3M
 Test Frequency :2402 MHz
 Test Mode :Tx CH Low
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2022-04-06
 Temp./Humi. :20.5/66
 Antenna Pol. :Horizontal
 Engineer :Jack Liu

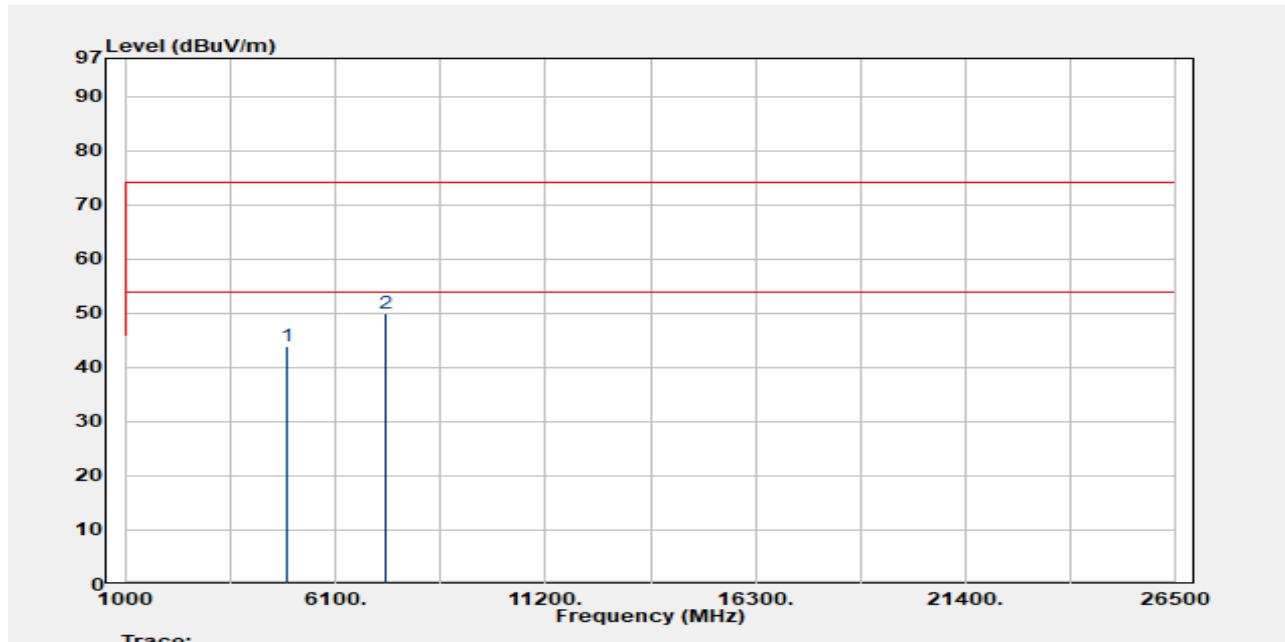


| Trace: | | | | | | |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
| 4804.000 | Peak | 36.51 | 7.62 | 44.13 | 74.00 | -29.87 |
| 7206.000 | Peak | 35.11 | 14.30 | 49.40 | 74.00 | -24.60 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 4804.000 | Average | 44.13 | -25.46 | 18.67 | 54.00 | -35.33 |
| 7206.000 | Average | 49.40 | -25.46 | 23.94 | 54.00 | -30.06 |

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Report Number :ER/2022/30057
 Operation Mode :EDR 3M
 Test Frequency :2441 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E1 Plane
 Test Site :SAC 3
 Test Date :2022-04-06
 Temp./Humi. :20.5/66
 Antenna Pol. :Vertical
 Engineer :Jack Liu

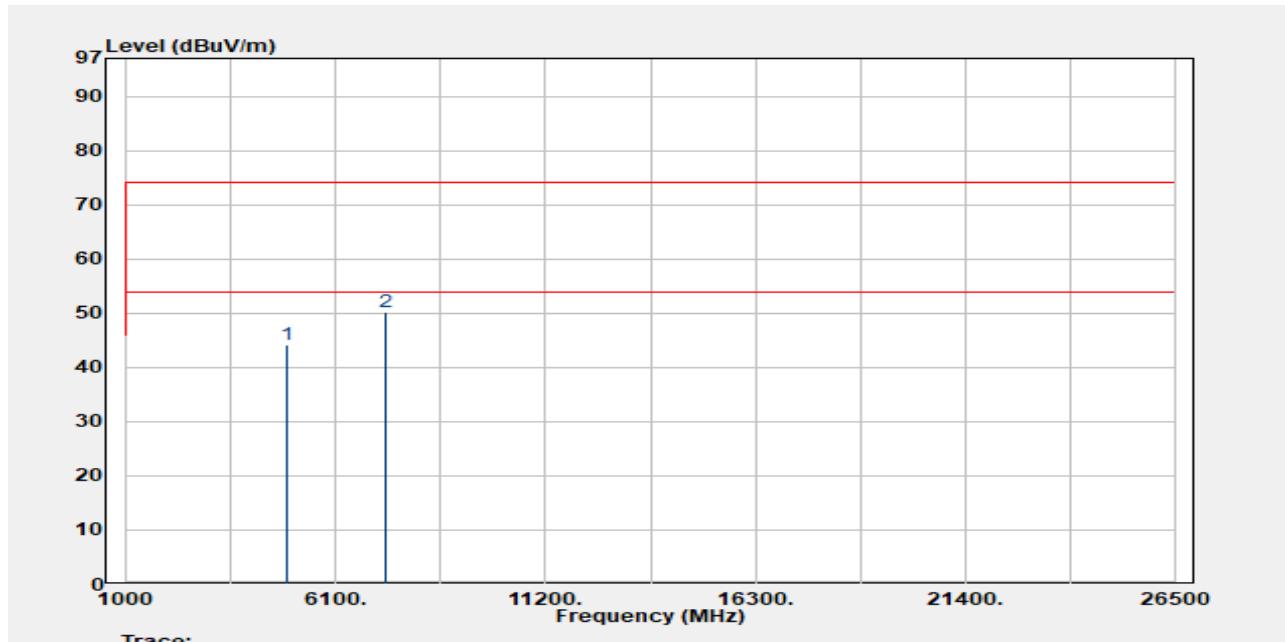


| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 4882.000 | Peak | 36.07 | 7.73 | 43.80 | 74.00 | -30.20 |
| 7323.000 | Peak | 34.51 | 15.38 | 49.90 | 74.00 | -24.10 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 4882.000 | Average | 43.80 | -25.46 | 18.34 | 54.00 | -35.66 |
| 7323.000 | Average | 49.90 | -25.46 | 24.44 | 54.00 | -29.56 |

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Report Number :ER/2022/30057 Test Site :SAC 3
 Operation Mode :EDR 3M Test Date :2022-04-06
 Test Frequency :2441 MHz Temp./Humi. :20.5/66
 Test Mode :Tx CH Mid Antenna Pol. :Horizontal
 EUT Pol :E1 Plane Engineer :Jack Liu

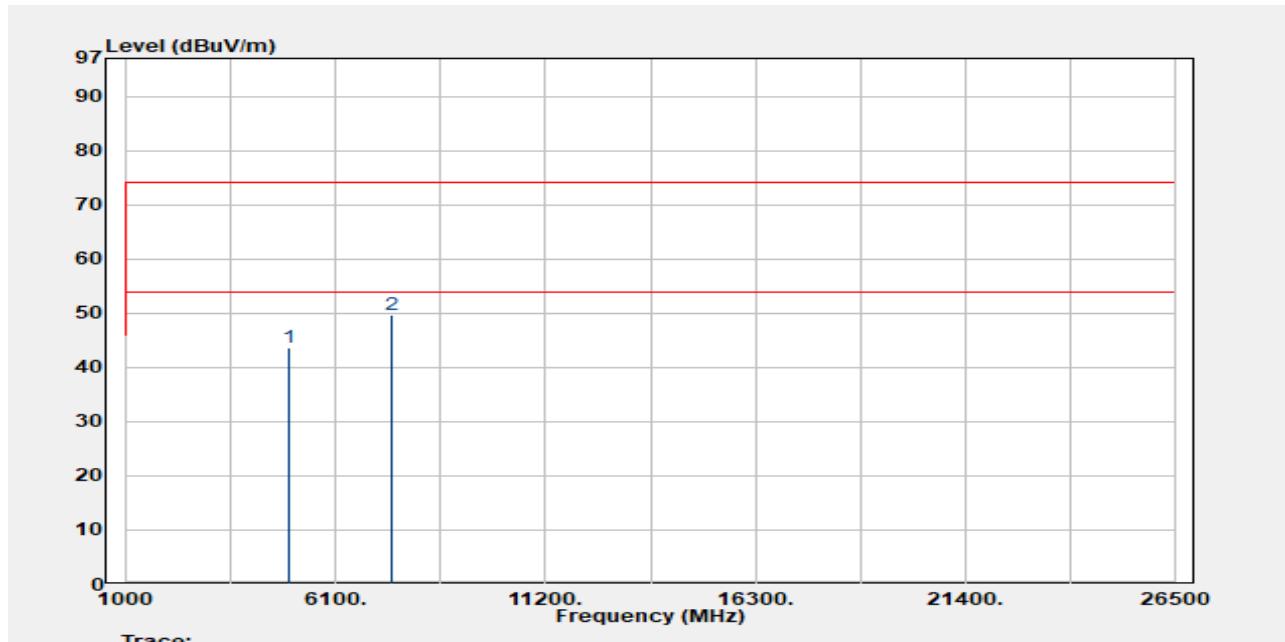


| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|----------------|------------------------------|---|------------------------------|------------------------------|---------------------------------|----------------|
| 4882.000 | Peak | 36.38 | 7.73 | 44.11 | 74.00 | -29.89 |
| 7323.000 | Peak | 34.77 | 15.38 | 50.15 | 74.00 | -23.85 |
| Freq. (MHz) | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) |
| 4882.000 | Average | 44.11 | -25.46 | 18.65 | 54.00 | -35.35 |
| 7323.000 | Average | 50.15 | -25.46 | 24.69 | 54.00 | -29.31 |

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Report Number :ER/2022/30057
 Operation Mode :EDR 3M
 Test Frequency :2480 MHz
 Test Mode :Tx CH High
 EUT Pol :E1 Plane
 Test Site :SAC 3
 Test Date :2022-04-06
 Temp./Humi. :20.5/66
 Antenna Pol. :Vertical
 Engineer :Jack Liu



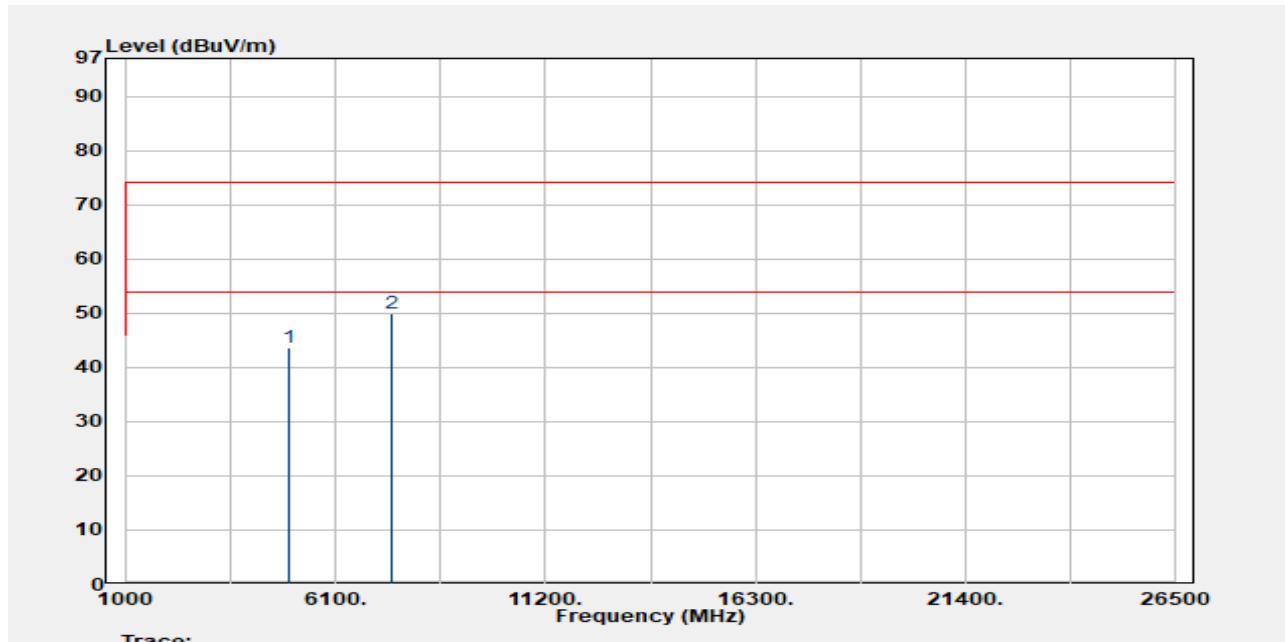
| Trace: | Freq. | Detector Mode | Spectrum Reading | Factor | Actual FS | Limit @3m | Margin |
|----------|----------|-------------------------------|------------------------|------------------------|---------------------------|--------------|--------|
| | MHz | PK/QP/AV | Level dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| | 4960.000 | Peak | 35.44 | 8.31 | 43.74 | 74.00 | -30.26 |
| | 7440.000 | Peak | 34.52 | 15.15 | 49.67 | 74.00 | -24.33 |
| Freq. | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) | |
| (MHz) | | | | | | | |
| 4960.000 | Average | 43.74 | -25.46 | 18.28 | 54.00 | -35.72 | |
| 7440.000 | Average | 49.67 | -25.46 | 24.21 | 54.00 | -29.79 | |

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Report Number :ER/2022/30057 Test Site :SAC 3
 Operation Mode :EDR 3M Test Date :2022-04-06
 Test Frequency :2480 MHz Temp./Humi. :20.5/66
 Test Mode :Tx CH High Antenna Pol. :Horizontal
 EUT Pol :E1 Plane Engineer :Jack Liu



| Trace: | Freq. | Detector Mode | Spectrum Reading | Factor | Actual FS | Limit @3m | Margin |
|----------|----------|-------------------------------|------------------------|------------------------|---------------------------|--------------|--------|
| | MHz | PK/QP/AV | Level dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| | 4960.000 | Peak | 35.43 | 8.31 | 43.74 | 74.00 | -30.26 |
| | 7440.000 | Peak | 34.68 | 15.15 | 49.83 | 74.00 | -24.17 |
| Freq. | Detector | Peak Actual FS (dB μ V/m) | Duty Cycle Factor (dB) | Average Value (dBuV/m) | Average Limit@3m (dBuV/m) | Margin (dB) | |
| (MHz) | | | | | | | |
| 4960.000 | Average | 43.74 | -25.46 | 18.28 | 54.00 | -35.72 | |
| 7440.000 | Average | 49.83 | -25.46 | 24.37 | 54.00 | -29.63 | |

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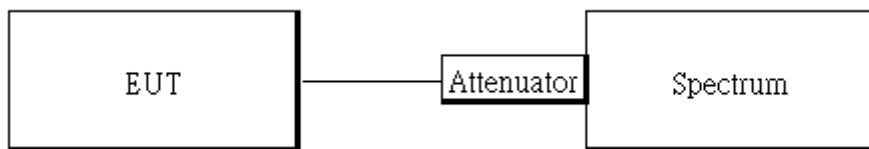
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12 FREQUENCY SEPARATION

12.1 Standard Applicable

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the $2/3 \times 20$ dB bandwidth of the hopping channel, whichever is greater.

12.2 Test Setup



12.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = middle of hopping channel.
5. Set the RBW approximately 30% of the channel spacing, $VBW \geq RBW$.
6. Adjust Span to Wide enough to capture the peaks of two adjacent channels.
7. Sweep = auto.
8. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

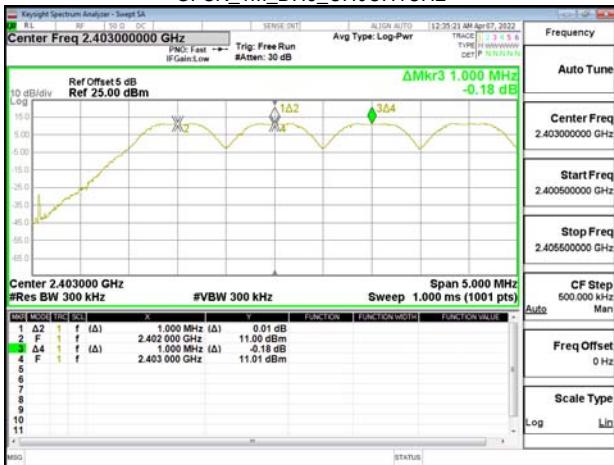
12.4 Measurement Result

| Channel separation (MHz) | Limit | Result |
|--------------------------|--|--------|
| 1 | ≥ 25 kHz or 2/3 times 20dB bandwidth | PASS |

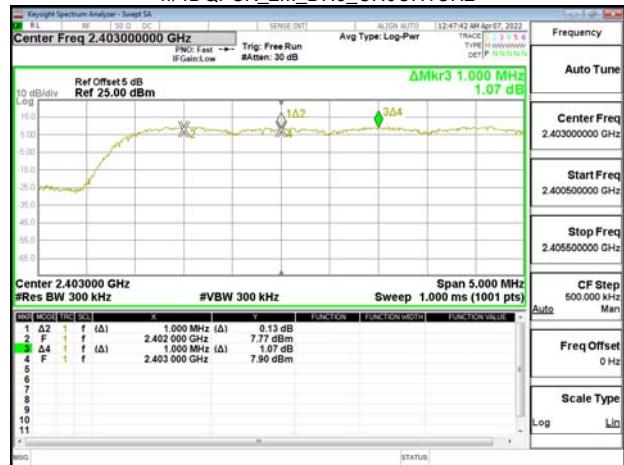
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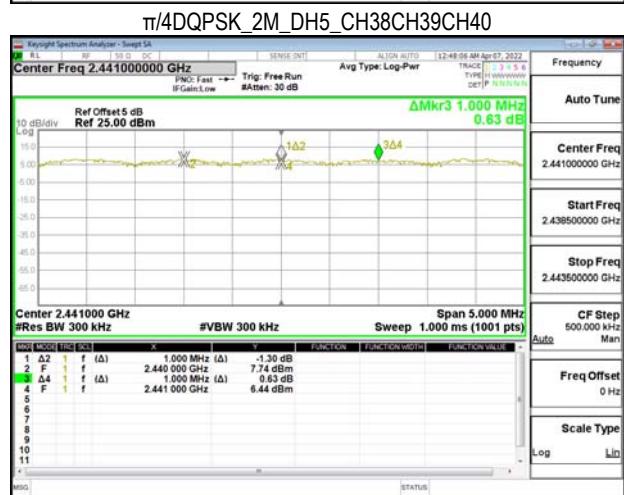
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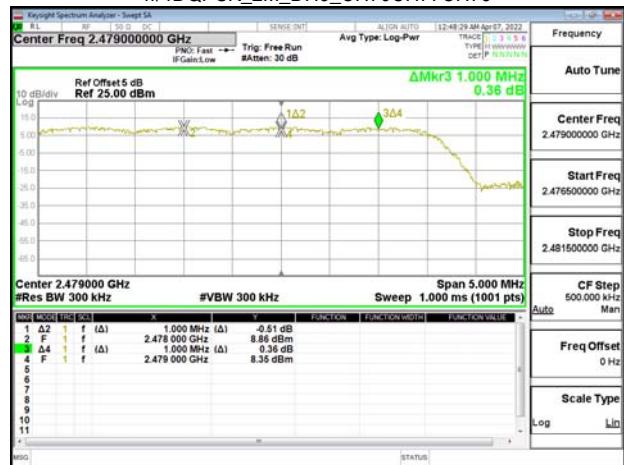
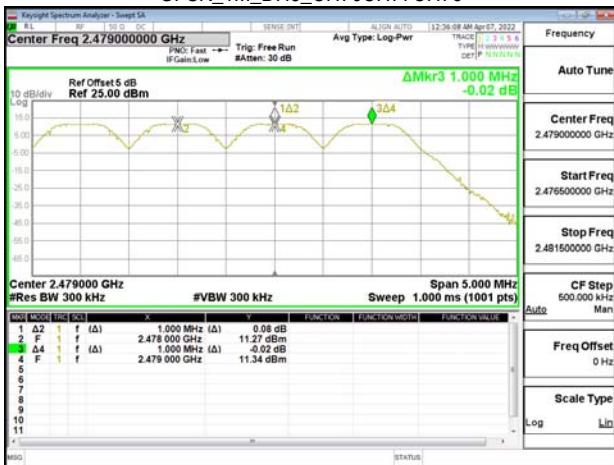
π/4DQPSK_2M_DH5_CH0CH1CH2



GFSK_1M_DH5_CH38CH39CH40



GFSK_1M_DH5_CH76CH77CH78



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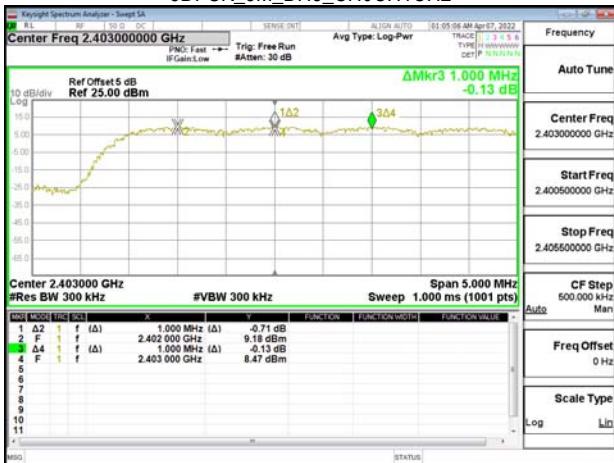
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f (886-2) 2298-0488

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8DPSK_3M_DH5_CH0CH1CH2



8DPSK_3M_DH5_CH38CH39CH40



8DPSK_3M_DH5_CH76CH77CH78



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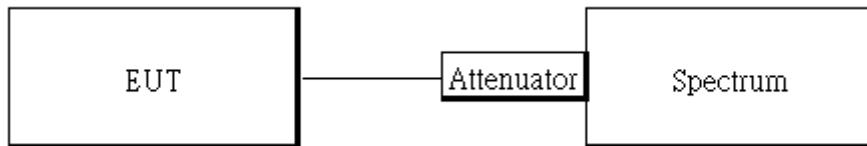
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13 NUMBER OF HOPPING FREQUENCY

13.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

13.2 Test Setup



13.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2013.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
5. Set the spectrum analyzer as RBW=430kHz, VBW=1.5MHz., Detector = Peak
6. Max hold, view and count how many channel in the band.

13.4 Measurement Result

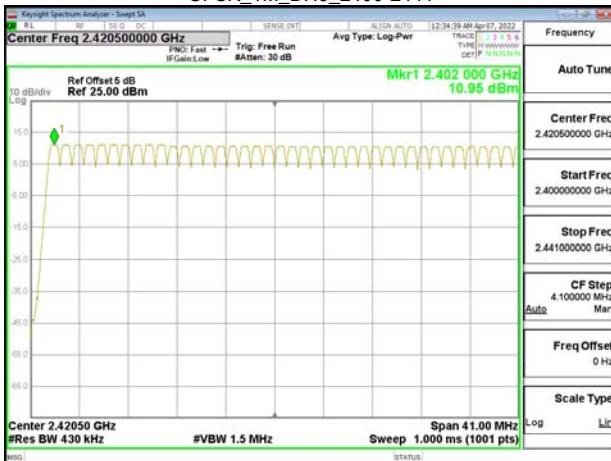
Tabular Data of Total Channel Number

| | <i>Channel Number</i> | <i>Limit</i> |
|-------------------------------|-----------------------|---------------|
| 2.4 GHz – 2.441 GHz | 40 | >15 |
| 2.441 GHz – 2.4835 GHz | 39 | |
| 2.4 GHz ~2.4835 GHz | (40+39) = 79 | |

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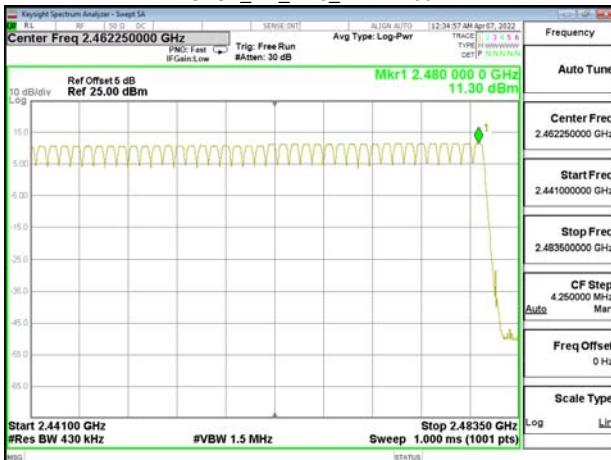
GFSK_1M_DH5_2400-2441



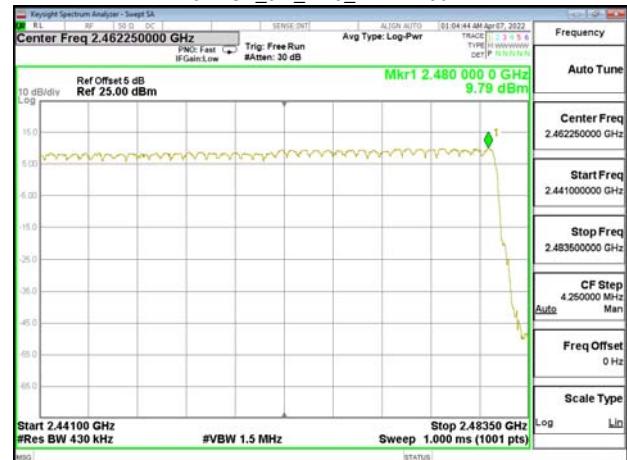
8DPSK_3M_DH5_2400-2441



GFSK_1M_DH5_2441-2480



8DPSK_3M_DH5_2441-2480



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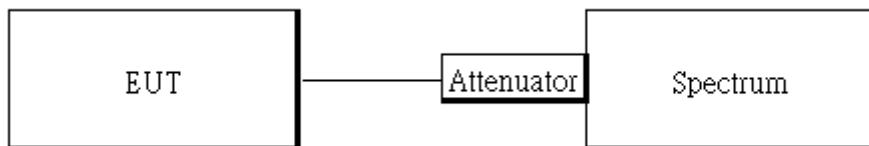
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14 TIME OF OCCUPANCY (DWELL TIME)

14.1 Standard Applicable

Frequency hopping systems operating in the 2400MHz-2483.5MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

14.2 Test Setup



14.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows ANSI C63.10:2015.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set center frequency of spectrum analyzer = operating frequency.
5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz , Detector = Peak, Adjust Sweep = 2~8ms.
6. Repeat above procedures until all frequency of the interest measured were complete.

Formula Deduced: time occupancy of one time slot X Hopping rate / total slot in one channel / total channel that hops X period of working channels.

Where, standard hopping rate is 1600 hops/s, slot in one channel for DH1, DH3, and DH5 is 2, 4, and 6, respectively.

DH1 consists of single time slot of the uplink, and one slot of the downlink Total Slot: 2

DH3 consists of three time slot of the uplink, and one slot of the downlink. Total Slot: 4

DH5 consists of five time slot of the uplink, and one slot of the downlink. Total Slot: 6

Note: the result of the complete test default channel at 1Mbps is recorded on the test report, 2Mbps, and 3Mbps only records the measurement result at middle channel that reveals no much deviation.

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14.4 Measurement Result

GFSK (1Mbps)

| Channel | PACKET TYPE | Measurement Result (ms) | Limit (ms) | VBW setting (kHz) |
|---------|-------------|-------------------------|------------|-------------------|
| Mid | DH1 | 121.60 | 400ms | 3.00 |
| | DH3 | 262.40 | 400ms | 1.00 |
| | DH5 | 308.80 | 400ms | 1.00 |

$\pi/4$ DQPSK (2Mbps)

| Channel | PACKET TYPE | Measurement Result (ms) | Limit (ms) | VBW setting (kHz) |
|---------|-------------|-------------------------|------------|-------------------|
| Mid | 2DH1 | 124.80 | 400ms | 3.00 |
| | 2DH3 | 262.40 | 400ms | 1.00 |
| | 2DH5 | 308.80 | 400ms | 1.00 |

8-DPSK (3Mbps)

| Channel | PACKET TYPE | Measurement Result (ms) | Limit (ms) | VBW setting (kHz) |
|---------|-------------|-------------------------|------------|-------------------|
| Mid | 3DH1 | 123.20 | 400ms | 3.00 |
| | 3DH3 | 260.80 | 400ms | 1.00 |
| | 3DH5 | 308.80 | 400ms | 1.00 |

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GFSK (1Mbps):

| | | | | | | | | | | |
|--------|---------------|---|-------|---|-------------|---|------|---|--------|------|
| CH Mid | DH1 time slot | = | 0.380 | * | (1600/2/79) | * | 31.6 | = | 121.60 | (ms) |
| | DH3 time slot | = | 1.640 | * | (1600/4/79) | * | 31.6 | = | 262.40 | (ms) |
| | DH5 time slot | = | 2.895 | * | (1600/6/79) | * | 31.6 | = | 308.80 | (ms) |

$\pi/4$ -DQPSK (2Mbps):

| | | | | | | | | | | |
|--------|----------------|---|-------|---|-------------|---|------|---|--------|------|
| CH Mid | 2DH1 time slot | = | 0.390 | * | (1600/2/79) | * | 31.6 | = | 124.80 | (ms) |
| | 2DH3 time slot | = | 1.640 | * | (1600/4/79) | * | 31.6 | = | 262.40 | (ms) |
| | 2DH5 time slot | = | 2.895 | * | (1600/6/79) | * | 31.6 | = | 308.80 | (ms) |

8-DPSK (3Mbps):

| | | | | | | | | | | |
|--------|----------------|---|-------|---|-------------|---|------|---|--------|------|
| CH Mid | 3DH1 time slot | = | 0.385 | * | (1600/2/79) | * | 31.6 | = | 123.20 | (ms) |
| | 3DH3 time slot | = | 1.630 | * | (1600/4/79) | * | 31.6 | = | 260.80 | (ms) |
| | 3DH5 time slot | = | 2.895 | * | (1600/6/79) | * | 31.6 | = | 308.80 | (ms) |

A period time = 0.4 (s) * 79 = 31.6 (s)

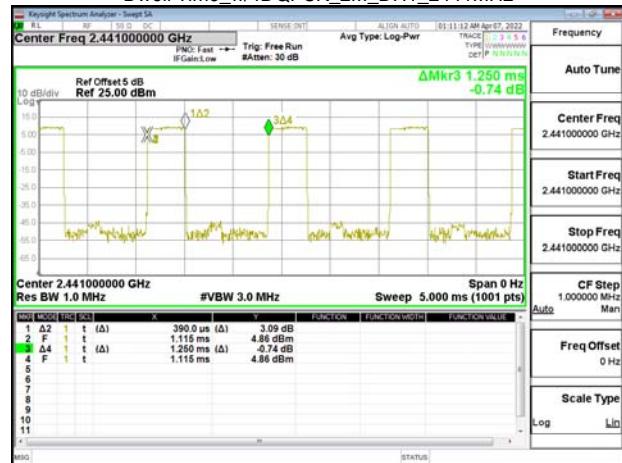
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Dwell Time_GFSK_1M_DH1_2441MHz



Dwell Time_π/4DQPSK_2M_DH1_2441MHz



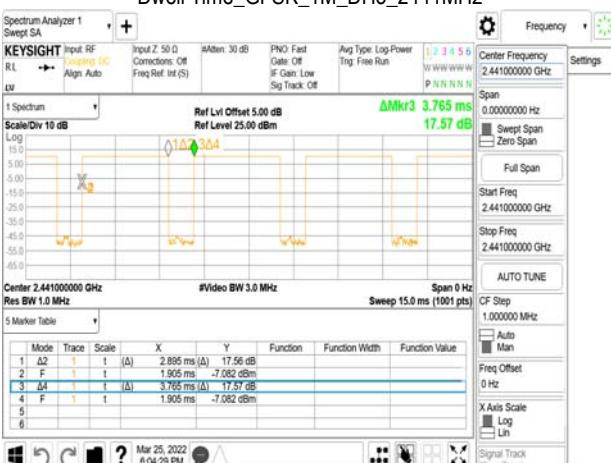
Dwell Time_GFSK_1M_DH3_2441MHz



Dwell Time_π/4DQPSK_2M_DH3_2441MHz



Dwell Time_GFSK_1M_DH5_2441MHz



Dwell Time_π/4DQPSK_2M_DH5_2441MHz



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Dwell Time_8DPSK_3M_DH1_2441MHz



Dwell Time_8DPSK_3M_DH3_2441MHz



Dwell Time_8DPSK_3M_DH5_2441MHz



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15 ANTENNA REQUIREMENT

15.1 Standard Applicable

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

15.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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