# RADIO TEST REPORT
# ETSI EN 300 328 V2.2.2 (2019-07)

| | |
|---|---|
| **Product：** | 4G Tablet |
| **Trade Mark：** | Blackview |
| **Model Name：** | Tab 6 |
| **Family Model：** | N/A |
| **Report No.：** | STR210908002001E |

**Prepared for**

DOKE COMMUNICATION (HK) LIMITED.

RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HONG KONG CHINA.

**Prepared by**

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community,Xixiang Street
Bao'an District, Shenzhen 518126 P.R. China

Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090
Website:http://www.ntek.org.cn

# TEST RESULT CERTIFICATION

| | | |
|---|---|---|
| **Applicant's name** | : | DOKE COMMUNICATION (HK) LIMITED. |
| Address | : | RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HONG KONG CHINA. |
| **Manufacturer's Name** | : | Shenzhen DOKE Electronic Co.,Ltd. |
| Address | : | 801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China. |

**Product description**

| | | |
|---|---|---|
| Product name | : | 4G Tablet |
| Trademark | : | Blackview |
| Model Name | : | Tab 6 |
| Family Model | : | N/A |
| **Standards** | : | ETSI EN 300 328 V2.2.2 (2019-07) |

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the of article 3.2 of the Directive 2014/53/EU requirements. And it is applicable only to the tested sample identified in the report.
This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personnel only, and shall be noted in the revision of the document.

**Date of Test**

| | |
|---|---|
| Date (s) of performance of tests | 08 Sep. 2021 ~ 08 Oct. 2021 |
| Date of Issue | 08 Oct. 2021 |
| Test Result | **Pass** |

Testing Engineer : (Mary Hu)

Authorized Signatory : (Alex Li)

Shenzhen NTEK Testing Technology Co., Ltd. NTEK Report Seal

**Table of Contents** **Page**

1 . GENERAL INFORMATION 7
1.1 GENERAL DESCRIPTION OF EUT 7
1.2 INFORMATION ABOUT THE EUT 8
1.3 TEST CONDITIONS 13
1.4 TEST CONFIGURATION OF EUT 13
1.5 DESCRIPTION OF TEST CONDITIONS 14
1.6 DESCRIPTION OF SUPPORT UNITS 15
1.7 EQUIPMENTS LIST FOR ALL TEST ITEMS 16
2 . SUMMARY OF TEST RESULTS 17
2.1 TEST FACILITY 18
3 . RF OUTPUT POWER 19
3.1 LIMITS OF RF OUTPUT POWER 19
3.2 TEST PROCEDURE 19
3.3 DEVIATION FROM TEST STANDARD 19
3.4 TEST SETUP 19
3.5 TEST RESULTS 20
4 . ACCUMULATED TRANSMIT TIME, FREQUENCY OCCUPATION AND HOPPING SEQUENCE 21
4.1 LIMITS OF ACCUMULATED TRANSMIT TIME, FREQUENCY OCCUPATION AND HOPPING SEQUENCE 21
4.2 TEST PROCEDURE 21
4.3 DEVIATION FROM TEST STANDARD 21
4.4 TEST SETUP 22
4.5 TEST RESULTS 22
5 . OCCUPIED CHANNEL BANDWIDTH 23
5.1 LIMITS OF OCCUPIED CHANNEL BANDWIDTH 23
5.2 TEST PROCEDURE 23
5.3 DEVIATION FROM TEST STANDARD 24
5.4 TEST SETUP 24
5.5 TEST RESULTS 24
6 . TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN 25
6.1 LIMITS OF TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND

**Table of Contents** **Page**

DOMAIN 25
6.2 TEST PROCEDURE 25
6.3 DEVIATION FROM TEST STANDARD 26
6.4 TEST SETUP 26
6.5 TEST RESULTS 26
7 . HOPPING FREQUENCY SEPARATION 27
7.1 LIMITS OF HOPPING FREQUENCY SEPARATION 27
7.2 TEST PROCEDURE 27
7.3 DEVIATION FROM TEST STANDARD 27
7.4 TEST SETUP 28
7.5 TEST RESULTS 28
8 . TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN 29
8.1 LIMITS OF TRANSMITTER TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN 29
8.2 TEST PROCEDURE 29
8.3 DEVIATION FROM TEST STANDARD 29
8.4 TEST SETUP 30
8.5 TEST RESULTS (Radiated measurement) 31
8.6 TEST RESULTS (Conducted measurement) 32
9 . RECEIVER SPURIOUS EMISSIONS 33
9.1 LIMITS OF RECEIVER SPURIOUS RADIATION 33
9.2 TEST PROCEDURE 33
9.3 DEVIATION FROM TEST STANDARD 33
9.4 TEST SETUP 34
9.5 TEST RESULTS (Radiated measurement) 35
9.6 TEST RESULTS (Conducted measurement) 36
10. RECEIVER BLOCKING 37
10.1 PERFORMANCE CRITERIA 37
10.2 LIMITS OF RECEIVER BLOCKING 37
10.3 TEST PROCEDURE 38
10.4 DEVIATION FROM TEST STANDARD 39
10.5 TEST SETUP 39
10.6 TEST RESULTS 40
11. TEST RESULTS 41

**Table of Contents** **Page**

11.1 ACCUMULATED TRANSMIT TIME 41
11.2 FREQUENCY OCCUPATION 48
11.3 ONE PULSE DWELL TIME 55
11.4 RF OUTPUT POWER 65
11.5 HOPPING FREQUENCY SEPARATION 67
11.6 OCCUPIED CHANNEL BANDWIDTH 71
11.7 TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN 74
11.8 TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN 77
11.9 RECEIVER SPURIOUS EMISSIONS 82
11.10 HOPPING SEQUENCE 86
12. EUT TEST PHOTO 88
SPURIOUS EMISSIONS MEASUREMENT PHOTOS 88

**Revision History**

| Report No. | Version | Description | Issued Date |
|---|---|---|---|
| STR210908002001E | Rev.01 | Initial issue of report | 08 Oct. 2021 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

# 1. GENERAL INFORMATION

## 1.1 GENERAL DESCRIPTION OF EUT

| | |
|---|---|
| Equipment | 4G Tablet |
| Trade Mark | Blackview |
| Model Name. | Tab 6 |
| Family Model | N/A |
| Model Difference | N/A |
| Product Description | The EUT is 4G Tablet<br>Operation Frequency: 2402~2480 MHz<br>Modulatin Type: GFSK,∏/4-DQPSK,8-DPSK<br>Modulation Technology: FHSS<br>Adaptive/non-adaptive: Adaptive equipment<br>Receiver categories: 2<br>Number Of Channel: 79CH<br>Antenna Designation: PIFA Antenna<br>Antenna Gain(Peak): 0.92 dBi<br>Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. |
| Channel List | Refer to below Table |
| Adapter | Model: HJ-0501000N2-EU<br>Input: 100-240V~50/60Hz 0.15A<br>Output: 5.0V⎓1.0A 5.0W |
| Battery | DC 3.8V, 5580mAh |
| Rating | DC 3.8V from battery or DC 5V from Adapter. |
| I/O Ports | Refer to users manual |
| Hardware Version | S866T-T310-V1.0 |
| Software Version | Tab6_EEA_S886T_V1.0 |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

79 channels are provided to (GFSK, ∏/4-DQPSK, 8-DPSK)

| Channel | Frequency (MHz |
|---|---|
| 00 | 2402 |
| 01 | 2403 |
| …… | …… |
| …… | …… |
| …… | … |
| …… | …… |
| 77 | 2479 |
| 78 | 2480 |

## 1.2 INFORMATION ABOUT THE EUT

**a) The type of modulation used by the equipment:**

☒ FHSS

☐ other forms of modulation

**b) In case of FHSS modulation:**

- In case of non-Adaptive Frequency Hopping equipment:

  The number of Hopping Frequencies: ……..

- In case of Adaptive Frequency Hopping Equipment:

  The maximum number of Hopping Frequencies: 79

  The minimum number of Hopping Frequencies: 79

- The (average) Dwell Time: 343.672s Maximum

**c) Adaptive / non-adaptive equipment:**

☐ non-adaptive Equipment

☒ adaptive Equipment without the possibility to switch to a non-adaptive mode

☐ adaptive Equipment which can also operate in a non-adaptive mode

**d) In case of adaptive equipment:**

The maximum Channel Occupancy Time implemented by the equipment: ..../..... ms

☒ The equipment has implemented an LBT based DAA mechanism

- In case of equipment using modulation different from FHSS:

☐ The equipment is Frame Based equipment

☐ The equipment is Load Based equipment

☐ The equipment can switch dynamically between Frame Based and Load Based equipment

The CCA time implemented by the equipment: ...../.. μs

☐ The equipment has implemented a non-LBT based DAA mechanism

☐ The equipment can operate in more than one adaptive mode

**e) In case of non-adaptive Equipment:**

The maximum RF Output Power (e.i.r.p.):

The maximum (corresponding) Duty Cycle:

Equipment with dynamic behaviour, that behaviour is described here. (e.g. the different combinations of duty cycle and corresponding power levels to be declared):

**f) The worst case operational mode for each of the following tests:**

- RF Output Power

  GFSK

- Power Spectral Density

  N/A

- Duty cycle, Tx-Sequence, Tx-gap

  N/A

- Accumulated Transmit time, Frequency Occupation & Hopping Sequence (only for FHSS equipment)

  ∏/4-DQPSK

- Hopping Frequency Separation (only for FHSS equipment)

  GFSK

- Medium Utilization

  N/A

- Adaptivity

  N/A

- Receiver Blocking

  GFSK

- Nominal Channel Bandwidth

  8-DPSK

- Transmitter unwanted emissions in the OOB domain

  8-DPSK

- Transmitter unwanted emissions in the spurious domain

  ∏/4-DQPSK

- Receiver spurious emissions

  8-DPSK

**g) The different transmit operating modes (tick all that apply):**

☒ Operating mode 1: Single Antenna Equipment

☒ Equipment with only one antenna

☐ Equipment with two diversity antennas but only one antenna active at any moment in time

☐ Smart Antenna Systems with two or more antennas, but operating in a (legacy) mode where only one antenna is used (e.g. IEEE 802.11™ [i.3] legacy mode in smart antenna systems)

☐ Operating mode 2: Smart Antenna Systems - Multiple Antennas without beam forming

☐ Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy mode)

☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 1

☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 2

NOTE 1: Add more lines if more channel bandwidths are supported.

☐ Operating mode 3: Smart Antenna Systems - Multiple Antennas with beam forming

☐ Single spatial stream / Standard throughput (e.g. IEEE 802.11™ [i.3] legacy mode)

☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 1

☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 2

NOTE 2: Add more lines if more channel bandwidths are supported.

**h) In case of Smart Antenna Systems:**

- The number of Receive chains: .....
- The number of Transmit chains: .....

☐ symmetrical power distribution

☐ asymmetrical power distribution

In case of beam forming, the maximum (additional) beam forming gain: ..... dB

NOTE: The additional beam forming gain does not include the basic gain of a single antenna.

**i) Operating Frequency Range(s) of the equipment:**

- Operating Frequency Range 1: 2402 MHz to 2480 MHz
- Operating Frequency Range 2: ..... MHz to ..... MHz

NOTE: Add more lines if more Frequency Ranges are supported.

**j) Nominal Channel Bandwidth(s):**

- Nominal Channel Bandwidth 1: 1.201MHz
- Nominal Channel Bandwidth 2: ...../..... MHz

NOTE: Add more lines if more channel bandwidths are supported.

**k) Type of Equipment (stand-alone, combined, plug-in radio device, etc.):**

☒ Stand-alone

☐ Combined Equipment (Equipment where the radio part is fully integrated within another type of equipment)

☐ Plug-in radio device (Equipment intended for a variety of host systems)

☐ Other

**l) The normal and the extreme operating conditions that apply to the equipment:**

**Normal operating conditions (if applicable):**

Operating temperature: 15℃~35℃

Other (please specify if applicable): ……

**Extreme operating conditions:**

Operating temperature range: Minimum: -10℃ Maximum 40℃

Other (please specify if applicable): …… Minimum: …… Maximum ……

Details provided are for the:

☒ stand-alone equipment

☐ combined (or host) equipment

☐ test jig

**m) The intended combination(s) of the radio equipment power settings and one or more antenna assemblies and their corresponding e.i.r.p. levels:**

● Antenna Type: PIFA Antenna

☒ Integral Antenna (information to be provided in case of conducted measurements)

Antenna Gain: 0.92 dBi

If applicable, additional beamforming gain (excluding basic antenna gain): ...../..... dB

☐ Temporary RF connector provided

☐ No temporary RF connector provided

☐ Dedicated Antennas (equipment with antenna connector)

☐ Single power level with corresponding antenna(s)

☐ Multiple power settings and corresponding antenna(s)

Number of different Power Levels: .....

Power Level 1: ..... dBm

Power Level 2: ..... dBm

Power Level 3: ..... dBm

NOTE 1: Add more lines in case the equipment has more power levels.

NOTE 2: These power levels are conducted power levels (at antenna connector).

●For each of the Power Levels, provide the intended antenna assemblies, their corresponding gains (G) and the resulting e.i.r.p. levels also taking into account the beamforming gain (Y) if applicable

**Power Level 1:** ..... dBm

Number of antenna assemblies provided for this power level: .....

| Assembly # | Gain (dBi) | e.i.r.p. (dBm) | Part number or model name |
|---|---|---|---|
| 1 | 0.92 | 4.34 | |
| 2 | | | |
| 3 | | | |

NOTE 3: Add more rows in case more antenna assemblies are supported for this power level.

**Power Level 2:** ..... dBm

Number of antenna assemblies provided for this power level: .....

| Assembly # | Gain (dBi) | e.i.r.p. (dBm) | Part number or model name |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |

NOTE 4: Add more rows in case more antenna assemblies are supported for this power level.

**Power Level 3:** ..... dBm

Number of antenna assemblies provided for this power level: .....

| Assembly # | Gain (dBi) | e.i.r.p. (dBm) | Part number or model name |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |

NOTE 5: Add more rows in case more antenna assemblies are supported for this power level.

**n) The nominal voltages of the stand-alone radio equipment or the nominal voltages of the combined (host) equipment or test jig in case of plug-in devices:**

Details provided are for the:

☒ stand-alone equipment

☐ combined (or host) equipment

☐ test jig

Supply Voltage ☐ AC mains State AC voltage …….. V

☒ DC State DC voltage: DC 3.8V

In case of DC, indicate the type of power source

☐ Internal Power Supply

☒ External Power Supply or AC/DC adapter: DC 12V

☒ Battery: DC 3.8V

☐ Other: .....

**o) Describe the test modes available which can facilitate testing:**

See clause 1.4

**p) The equipment type (e.g. Bluetooth®, IEEE 802.11™ [i.3], IEEE 802.15.4™ [i.4], proprietary, etc.):**

Bluetooth®

**q) If applicable, the statistical analysis referred to in clause 5.4.1 q)**

(to be provided as separate attachment)

**r) If applicable, the statistical analysis referred to in clause 5.4.1 r)**

(to be provided as separate attachment)

**s) Geo-location capability supported by the equipment:**

☐ Yes

☐ The geographical location determined by the equipment as defined in clause 4.3.1.13.2 or clause 4.3.2.12.2 is not accessible to the user

☒ No

**t) Describe the minimum performance criteria that apply to the equipment (see clause 4.3.1.12.3 or clause 4.3.2.11.3):**

**GFSK=0.85%**

## 1.3 TEST CONDITIONS

| | Normal Test Conditions | Extreme Test Conditions |
|---|---|---|
| Temperature | 15℃ - 35℃ | -10℃ ~ 40℃ Note: (1) |
| Relative Humidity | 20% - 75% | N/A |
| Supply Voltage | DC 3.8V | / |

Note:
(1) The HT 40℃ and LT -10℃ was declarated by manufacturer, The EUT couldn't be operate normally with higher or lower temperature.
(2) The measurements are performed at the highest, middle, lowest available channels.

## 1.4 TEST CONFIGURATION OF EUT

| Modulation Used For Conformance Testing | | |
|---|---|---|
| Bluetooth mode | Data rate | Modulation type |
| BR | 1Mbps | GFSK |
| EDR | 2Mbps | ∏/4-DQPSK |
| EDR | 3Mbps | 8-DPSK |

| Test Channel Frequencies Configuration | | |
|---|---|---|
| Test Channel | EUT Channel | Test Frequency (MHz) |
| Lowest | CH00 | 2402 |
| Middle | CH39 | 2441 |
| Highest | CH78 | 2480 |

## 1.5 DESCRIPTION OF TEST CONDITIONS

**E-1**
**EUT**

## 1.6 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Brand | Model/Type No. | Series No. | Note |
|---|---|---|---|---|---|
| E-1 | 4G Tablet | Blackview | Tab 6 | N/A | EUT |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Note:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

## 1.7 EQUIPMENTS LIST FOR ALL TEST ITEMS

| EQUIPMENT TYPE | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
|---|---|---|---|---|---|---|
| EMI Test Receiver | R&S | ESPI7 | 101318 | 2021.04.27 | 2022.04.26 | 1 year |
| Bilog Antenna | TESEQ | CBL6111D | 31216 | 2021.03.29 | 2022.03.28 | 1 year |
| Turn Table | EM | SC100_1 | 60531 | N/A | N/A | N/A |
| Antnna Mast | EM | SC100 | N/A | N/A | N/A | N/A |
| Horn Antenna | EM | EM-AH-10180 | 2011071402 | 2021.03.29 | 2022.03.28 | 1 year |
| Horn Ant | Schwarzbeck | BBHA 9170 | 9170-181 | 2021.04.27 | 2022.04.26 | 1 year |
| Test Cable (30MHz-1GHz) | N/A | R-01 | N/A | 2020.05.11 | 2023.05.10 | 3 year |
| Test Cable (1-18GHz) | N/A | R-02 | N/A | 2020.05.11 | 2023.05.10 | 3 year |
| 50Ω Coaxial Switch | Anritsu | MP59B | 6200983705 | 2020.05.11 | 2023.05.10 | 3 year |
| Pre-Amplifier | EMC | EMC051835SE | 980246 | 2021.07.01 | 2022.06.30 | 1 year |
| Spectrum Analyzer | Agilent | E4407B | MY45108040 | 2021.04.27 | 2022.04.26 | 1 year |
| Filter | TRILTHIC | 2400MHz | 29 | 2020.04.07 | 2023.04.06 | 3 year |
| Attenuator | Weinschel | 33-10-33 | AR4010 | 2020.04.07 | 2023.04.06 | 3 year |
| Attenuator | Weinschel | 24-20-34 | BP4485 | 2020.04.07 | 2023.04.06 | 3 year |
| MXA Signal Analyzer | Agilent | N9020A | MY49100060 | 2021.07.01 | 2022.06.30 | 1 year |
| ESG VETCTOR SIGNAL GENERAROR | Agilent | E4438C | MY45093347 | 2021.04.27 | 2022.04.26 | 1 year |
| PSG Analog Signal Generator | Agilent | E8257D | MY51110112 | 2021.07.01 | 2022.06.30 | 1 year |
| Power Splitter | Mini-Circuits/USA | ZN2PD-63-S+ | SF025101428 | 2020.04.07 | 2023.04.06 | 3 year |
| Coupler | Mini-Circuits | ZADC-10-63-S+ | SF794101410 | 2020.04.07 | 2023.04.06 | 3 year |
| Directional Coupler | MCLI/USA | CB11-20 | 0D2L51502 | 2020.07.17 | 2023.07.16 | 3 year |
| Attenuator | Agilent | 8495B | MY42147029 | 2020.04.13 | 2023.04.12 | 3 year |
| Power Meter | DARE | RPR3006W | 15I00041SNO84 | 2021.07.01 | 2022.06.30 | 1 year |
| MXG Vector Signal Generator | Agilent | N5182A | MY47070317 | 2021.04.27 | 2022.04.26 | 1 year |
| Wideband Radio Communication Tester Specifications | R&S | CMW500 | 148500 | 2021.07.01 | 2022.06.30 | 1 year |
| temporary antenna connector (Note) | NTS | R001 | N/A | N/A | N/A | N/A |
| Temperature & Humitidy Chamber | GIANT FORCE | GTH-056P | GF-94454-1 | 2021.04.27 | 2022.04.26 | 1 year |

## 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| ETSI EN 300 328 V2.2.2 (2019-07) | | |
|---|---|---|
| Clause | Test Item | Results |
| **TRANSMITTER PARAMETERS** | | |
| 4.3.1.2 | RF Output Power | Pass |
| 4.3.1.3 | Duty cycle, Tx-Sequence, Tx-gap | Not Applicable (See Note 1/2) |
| 4.3.1.4 | Accumulated Transmit Time, Frequency Occupation and Hopping Sequence | Pass |
| 4.3.1.5 | Hopping Frequency Separation | Pass |
| 4.3.1.6 | Medium Utilization (MU) factor | Not Applicable (See Note 1/2) |
| 4.3.1.7 | Adaptivity | Not Applicable (See Note 1) |
| 4.3.1.8 | Occupied Channel Bandwidth | Pass |
| 4.3.1.9 | Transmitter unwanted emission in the OOB domain | Pass |
| 4.3.1.10 | Transmitter unwanted emissions in the spurious domain | Pass |
| **RECEIVER PARAMETERS** | | |
| 4.3.1.11 | Receiver Spurious Emissions | Pass |
| 4.3.1.12 | Receiver Blocking | Pass |

Note:
1. These requirements do not apply for equipment with a maximum declared RF output power of less than 10 dBm EIRP or for equipment when operating in a mode where the RF output power is less than 10 dBm EIRP.
2. These requirements apply to non-adaptive frequency hopping equipment or to adaptive frequency hopping equipment operating in a non-adaptive mode
3. The antenna gain provided by customer is used to calculate the EIRP result. NTEK is not responsible for the accuracy of antenna gain parameter.

## 2.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd.
Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China
FCC Registered No.: 463705 IC Registered No.:9270A-1
CNAS Registration No.:L5516

## 2.2 MAXIMUM MEASUREMENT UNCERTAINTY

For the test methods, according to ETSI EN 300 328 standard, the measurement uncertainty figures shall be calculated in accordance with ETR 100 028-1[4] and shall correspond to an expansion factor(coverage factor) k=1.96 or k=2 (which provide confidence levels of respectively **95** % and **95.45** % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Maximum measurement uncertainty

| No. | Item | Uncertainty |
|---|---|---|
| 1 | Occupied Channel Bandwidth | ± 5% |
| 2 | RF output Power,conducted | ±1.5dB |
| 3 | Power Spectral Density, conducted | ± 3dB |
| 4 | Unwanted emissions, conducted | ± 3dB |
| 5 | All emissions,radiated | ± 6dB |
| 6 | Temperature | ± 3℃ |
| 7 | Humidity | ± 3% |
| 9 | Time | ± 5% |

# TRANSMITTER PARAMETERS

## 3. RF OUTPUT POWER

### 3.1 LIMITS OF RF OUTPUT POWER

Refer to chapter 4.3.1.2.3 of ETSI EN 300 328 V2.2.2 (2019-07)

| RF OUTPUT POWER | |
|---|---|
| Condition | Limit |
| ☐ Non-adaptive frequency hopping systems | Equal to or less than the value declared by the supplier. This declared value shall be equal to or less than 20 dBm. |
| ☒ Adaptive frequency hopping systems | equal to or less than 20 dBm. |

### 3.2 TEST PROCEDURE

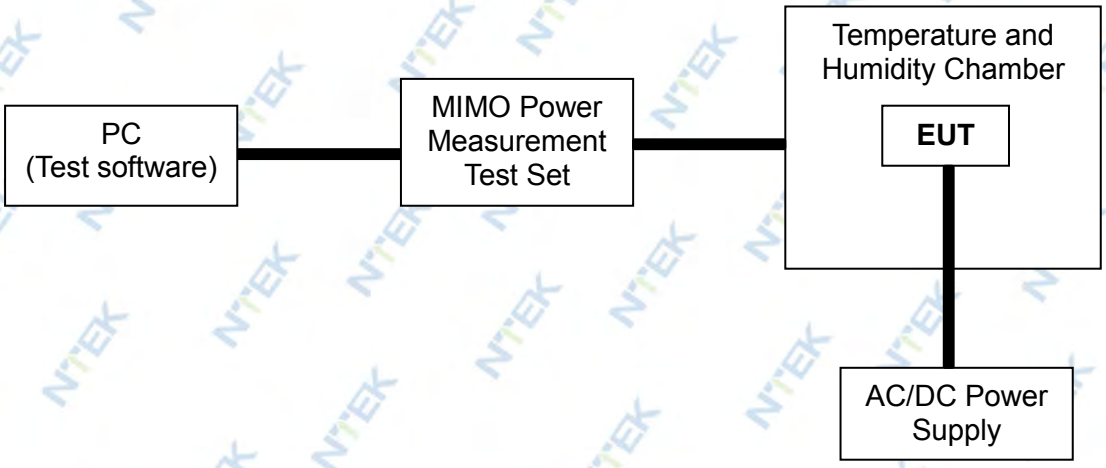
Refer to chapter 5.4.2.2 of ETSI EN 300 328 V2.2.2 (2019-07)

| Measurement | |
|---|---|
| ☒Conducted measurement | ☐Radiated measurement |

### 3.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.4 TEST SETUP



## 3.5 TEST RESULTS

| | | | |
|---|---|---|---|
| EUT： | 4G Tablet | Model Name ： | Tab 6 |
| Temperature： | 20℃ | Relative Humidity： | 55 % |
| Pressure： | 1012 hPa | Test Voltage ： | DC 3.8V (Normal) |
| Test Mode ： | BT-GFSK/∏/4-DQPSK /8-DPSK | | |

Test data reference attachment

# 4. ACCUMULATED TRANSMIT TIME, FREQUENCY OCCUPATION AND HOPPING SEQUENCE

## 4.1 LIMITS OF ACCUMULATED TRANSMIT TIME, FREQUENCY OCCUPATION AND HOPPING SEQUENCE

Refer to chapter 4.3.1.4.3 of ETSI EN 300 328 V2.2.2 (2019-07)

| Accumulated Transmit Time | |
|---|---|
| Condition | Limit |
| ☐ Non-adaptive frequency hopping systems | ≤ 15 ms[15 ms * the minimum number of hopping frequencies (N)] |
| ☒ Adaptive frequency hopping systems | ≤ 400 ms in [400 ms * the minimum number of hopping frequencies (N)] |
| MINIMUM FREQUENCY OCCUPATION TIME | |
| Condition | Limit |
| ☐ Non-adaptive frequency hopping systems | Each hopping frequency of the hopping sequence shall be occupied at least once within a period not exceeding four times the product of the dwell time and the number of hopping frequencies in use. |
| ☒ Adaptive frequency hopping systems | |
| HOPPING SEQUENCE (S) | |
| Condition | Limit |
| ☐ Non-adaptive frequency hopping systems | ≥15 hopping frequencies or 15/minimum |
| ☒ Adaptive frequency hopping systems | Operating over a minimum of 70% of the Operating in the band 2.4 GHz to 2.4835 GHz |
| | ≥15 hopping frequencies or 15/minimum |

## 4.2 TEST PROCEDURE

Refer to chapter 5.4.4 of ETSI EN 300 328 V2.2.2 (2019-07)

| Measurement | |
|---|---|
| ☒Conducted measurement | ☐Radiated measurement |

## 4.3 DEVIATION FROM TEST STANDARD

No deviation

## 4.4 TEST SETUP


The measurements only were performed at normal test conditions. The equipment was configured to operate at its maximun Dwell time and maximum Duty Cycle. The measurement was performed on a minimum of 2 hopping frequencies chosen arbitrary from the actual hopping sequence. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator. Controlling software (Button Function) has been activated to set the EUT on specific status.

## 4.5 TEST RESULTS

| | | | |
|---|---|---|---|
| EUT： | 4G Tablet | Model Name ： | Tab 6 |
| Temperature： | 26℃ | Relative Humidity | 60 % |
| Pressure： | 1012 hPa | Test Voltage ： | DC 3.8V |
| Test Mode ： | BT-GFSK/∏/4-DQPSK /8-DPSK-Hopping Mode | | |

Test data reference attachment

# 5. OCCUPIED CHANNEL BANDWIDTH

## 5.1 LIMITS OF OCCUPIED CHANNEL BANDWIDTH

Refer to chapter 4.3.1.8.3 of ETSI EN 300 328 V2.2.2 (2019-07)

| OCCUPIED CHANNEL BANDWIDTH | | |
|---|---|---|
| Condition | | Limit |
| All types of equipment | | Shall fall completely within the band 2400 to 2483.5 MHz |
| Additional requirement | For non-adaptive using wide band modulations other than FHSS system and EIRP >10 dBm | Less than 20 MHz |
| | For non-adaptive frequency hopping system and EIRP >10 dBm | Less than 5 MHz |

## 5.2 TEST PROCEDURE

Refer to chapter 5.4.7.2 of ETSI EN 300 328 V2.2.2 (2019-07)

| Measurement | |
|---|---|
| ☒Conducted measurement | ☐Radiated measurement |

The setting of the Spectrum Analyzer

| | |
|---|---|
| Center Frequency | The centre frequency of the channel under test |
| Frequency Span | 2 × Nominal Channel Bandwidth |
| Detector | RMS |
| RBW | ~ 1 % of the span without going below 1 % |
| VBW | 3 × RBW |
| Trace | Max hold |
| Sweep time | 1s |

## 5.3 DEVIATION FROM TEST STANDARD

No deviation

## 5.4 TEST SETUP


These measurements only were performed at normal test conditions. The measurement shall be performed only on the lowest and the highest frequency within the ststed frequency range. Using software to force the EUT to hop or transmit on a single Hopping frequency. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator. Controlling software (Button Function) has been activated to set the EUT on specific status.

## 5.5 TEST RESULTS

| | | | |
|---|---|---|---|
| EUT： | 4G Tablet | Model Name ： | Tab 6 |
| Temperature： | 26℃ | Relative Humidity： | 60 % |
| Pressure： | 1012 hPa | Test Voltage ： | DC 3.8V |
| Test Mode ： | BT-GFSK/∏/4-DQPSK /8-DPSK-(CH00/CH78) | | |

Test data reference attachment

# 6. TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

## 6.1 LIMITS OF TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

Refer to chapter 4.3.1.9.3 of ETSI EN 300 328 V2.2.2 (2019-07)

| TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN | |
|---|---|
| Condition | Limit |
| Under all test conditions | The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask in below figure. |

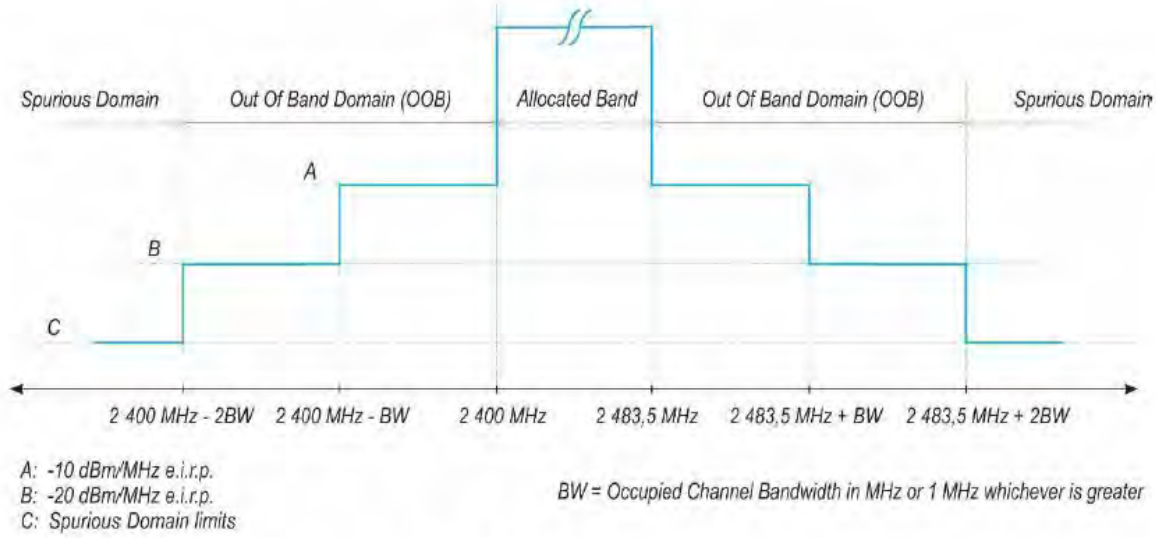



**Figure 1: Transmit mask**

## 6.2 TEST PROCEDURE

Refer to chapter 5.4.8.2of ETSI EN 300 328 V2.2.2 (2019-07)

| Measurement | |
|---|---|
| ☒Conducted measurement | ☐Radiated measurement |

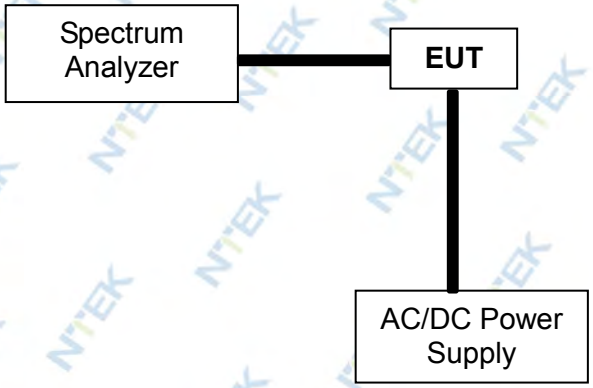
The setting of the Spectrum Analyzer

| | |
|---|---|
| Span | 0Hz |
| Filter Mode | Channel Filter |
| Trace Mode | Clear/Write |
| Trigger Mode | Video Trigger |
| Detector | RMS |
| Sweep Point / Sweep Mode | 5000 / Continuous |
| RBW / VBW | 1MHz / 3MHz |

## 6.3 DEVIATION FROM TEST STANDARD

No deviation

## 6.4 TEST SETUP




According to the EN 300328 V2.2.2 clause 5.4.8.1: These measurements shall only be performed at normal test conditions. For equipment using FHSS modulation, the measurements shall be performed during normal operation (hopping).

For equipment using wide band modulations other than FHSS, the measurement shall be performed at the lowest and the highest channel on which the equipment can operate. These operating channels shall be recorded.

The equipment shall be configured to operate under its worst case situation with respect to output power.

If the equipment can operate with different Nominal Channel Bandwidths (e.g. 20 MHz and 40 MHz), then each channel bandwidth shall be tested separately.

## 6.5 TEST RESULTS

| | | | |
|---|---|---|---|
| EUT： | 4G Tablet | Model Name ： | Tab 6 |
| Temperature： | 26℃ | Relative Humidity： | 60 % |
| Pressure： | 1012 hPa | Test Voltage ： | DC 3.8V |
| Test Mode ： | BT-GFSK/∏/4-DQPSK /8-DPSK-(CH78) | | |

Test data reference attachment

# 7. HOPPING FREQUENCY SEPARATION

## 7.1 LIMITS OF HOPPING FREQUENCY SEPARATION

Refer to chapter 4.3.1.5.3 of ETSI EN 300 328 V2.2.2 (2019-07)

| HOPPING FREQUENCY SEPARATION | |
|---|---|
| Condition | Limit |
| ☐ Non-adaptive frequency hopping systems | The minimum Hopping Frequency Separation shall be equal to or greater than occupide channel bandwidth of a single hop, with a minimum separation of 100 kHz. |
| ☒ Adaptive frequency hopping systems | The minimum Hopping Frequency Separation shall be 100 kHz. |

## 7.2 TEST PROCEDURE

Refer to chapter 5.4.5.2 of ETSI EN 300 328 V2.2.2 (2019-07)

| Measurement | |
|---|---|
| ☒Conducted measurement | ☐Radiated measurement |

The setting of the Spectrum Analyzer

| | |
|---|---|
| Center Frequency | Centre of the two adjacent hopping frequencies |
| Frequency Span | Sufficient to see the complete power envelope of both hopping frequencies |
| Detector | Max Peak |
| RBW | ~ 1 % of the span |
| VBW | 3 × RBW |
| Trace | Max hold |
| Sweep Time | Auto |

## 7.3 DEVIATION FROM TEST STANDARD

No deviation

## 7.4 TEST SETUP


The measurements were performed at normal test conditions. The measurement was performed on 2 adjacent hopping frequencies. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator. Controlling software (Button Function) has been activated to set the EUT on specific status.

## 7.5 TEST RESULTS

| | | | |
|---|---|---|---|
| EUT： | 4G Tablet | Model Name ： | Tab 6 |
| Temperature： | 26℃ | Relative Humidity： | 60 % |
| Pressure： | 1012 hPa | Test Voltage ： | DC 3.8V |
| Test Mode ： | BT-GFSK/∏/4-DQPSK /8-DPSK-(CH00/CH39/CH78) | | |

Test data reference attachment

Note: 1.The limitation is from OCB of a single hop and this value must greater and equal to 100kHz.
2.The device will never “hop” to its neighbour channel, therefore the “effective” channel separation becomes 2x the “normal” channel separation.

# 8. TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

## 8.1 LIMITS OF TRANSMITTER TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

Refer to chapter 4.3.1.10.3 of ETSI EN 300 328 V2.2.2 (2019-07)

| TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN | | |
|---|---|---|
| Frequency Range | Maximum Power Limit (E.R.P.(≤1 GHz) E.I.R.P.(> 1 GHz)) | Bandwidth |
| 30 MHz to 47 MHz | -36dBm | 100 kHz |
| 47 MHz to 74 MHz | -54dBm | 100 kHz |
| 74 MHz to 87.5 MHz | -36dBm | 100 kHz |
| 87.5 MHz to 118 MHz | -54dBm | 100 kHz |
| 118 MHz to 174 MHz | -36dBm | 100 kHz |
| 174 MHz to 230 MHz | -54dBm | 100 kHz |
| 230 MHz to 470 MHz | -36dBm | 100 kHz |
| 470 MHz to 694 MHz | -54dBm | 100 kHz |
| 694 MHz to 1 GHz | -36dBm | 100 kHz |
| 1 GHz ~ 12.75 GHz | -30dBm | 1 MHz |

## 8.2 TEST PROCEDURE

Refer to chapter 5.4.9.2 of ETSI EN 300 328 V2.2.2 (2019-07)

| Measurement | |
|---|---|
| ☒Conducted measurement | ☒Radiated measurement |

The setting of the Spectrum Analyzer

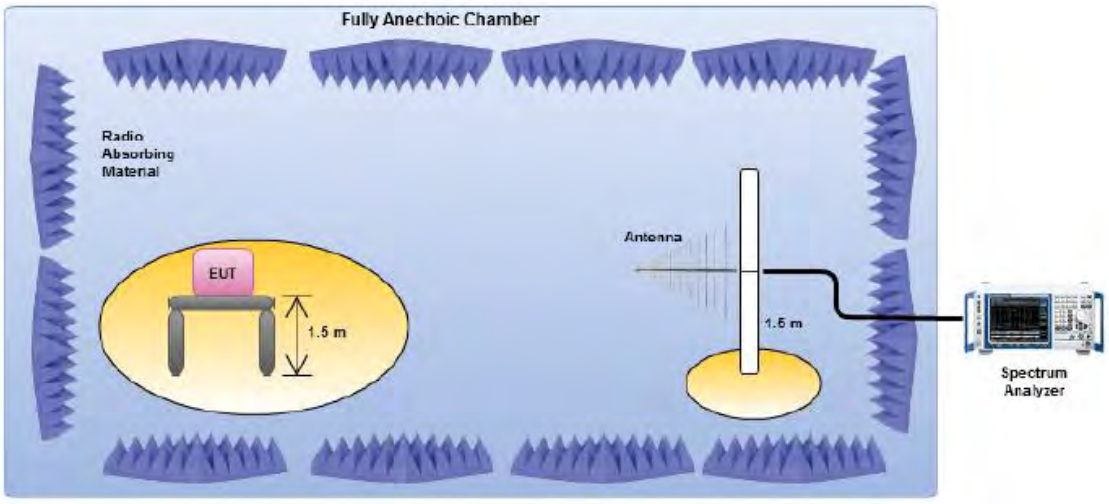
| | |
|---|---|
| RBW | 100K(＜1GHz) / 1M(＞1GHz) |
| VBW | 300K(＜1GHz) / 3M(＞1GHz) |

## 8.3 DEVIATION FROM TEST STANDARD

No deviation

## 8.4 TEST SETUP

Radiated measurement:




Conducted measurement:


1. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration ).

2. The measurements were performed when normal hopping was disabled. In this case measurements were performed when operating at the lowest and the highest hopping frequency.

3. The equipment was configured to operate under its worst case situation with respect to output power.

4. The test setup has been constructed as the normal use condition. Controlling software (Button Function) has been activated to set the EUT on specific status.

8.5 TEST RESULTS (Radiated measurement)

BELOW 1 GHz WORST- CASE DATA (30 MHz ~ 1GHz)

| | | | |
|---|---|---|---|
| EUT： | 4G Tablet | Model Name ： | Tab 6 |
| Temperature： | 24 ℃ | Relative Humidity | 54% |
| Pressure： | 1010 hPa | Test Power ： | DC 3.8V |
| Test Mode ： | BT-GFSK (CH00) | | |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBm) | Factor (dB) | Emission Level (dBm) | Limits (dBm) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| V | 43.049 | -73.92 | 10.77 | -63.15 | -36 | -27.15 | peak |
| V | 90.033 | -70.29 | 11.26 | -59.03 | -54 | -5.03 | peak |
| V | 194.363 | -70.73 | 11.22 | -59.51 | -36 | -23.51 | peak |
| V | 391.865 | -69.24 | 11.19 | -58.05 | -54 | -4.05 | peak |
| V | 589.845 | -74.39 | 9.53 | -64.86 | -36 | -28.86 | peak |
| V | 806.421 | -72.26 | 11.03 | -61.23 | -36 | -25.23 | peak |
| H | 44.28 | -76.02 | 10.45 | -65.57 | -54 | -11.57 | peak |
| H | 104.182 | -67.31 | 10.20 | -57.11 | -54 | -3.11 | peak |
| H | 178.106 | -71.53 | 10.83 | -60.70 | -36 | -24.70 | peak |
| H | 433.686 | -67.7 | 11.11 | -56.59 | -54 | -2.59 | peak |
| H | 291.136 | -68.2 | 11.11 | -57.09 | -36 | -21.09 | peak |
| H | 819.418 | -72.34 | 11.03 | -61.31 | -36 | -25.31 | peak |

**Remark:**

1. Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.
2. All the modes had been tested, but only the worst data recorded in the report.

ABOVE 1 GHz WORST- CASE DATA (1GHz ~ 12.75GHz)

| | | | |
|---|---|---|---|
| EUT： | 4G Tablet | Model Name ： | Tab 6 |
| Temperature： | 24 ℃ | Relative Humidity | 54% |
| Pressure： | 1010 hPa | Test Power ： | DC 3.8V |
| Test Mode ： | GFSK (CH00/CH39/CH78) | | |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBm) | Factor (dB) | Emission Level (dBm) | Limits (dBm) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| **operation frequency:2402** | | | | | | | |
| V | 4804.70 | -35.75 | -1.47 | -37.22 | -30 | -7.22 | peak |
| V | 7206.26 | -49.20 | 10.87 | -38.33 | -30 | -8.33 | peak |
| H | 4804.70 | -38.20 | -1.47 | -39.67 | -30 | -9.67 | peak |
| H | 7206.26 | -51.88 | 10.87 | -41.01 | -30 | -11.01 | peak |
| **operation frequency:2441** | | | | | | | |
| V | 4882.65 | -42.61 | -1.91 | -44.52 | -30 | -14.52 | peak |
| V | 7323.16 | -48.49 | 5.95 | -42.54 | -30 | -12.54 | peak |
| H | 4882.65 | -44.16 | -1.91 | -46.07 | -30 | -16.07 | peak |
| H | 7323.16 | -49.44 | 5.95 | -43.49 | -30 | -13.49 | peak |
| **operation frequency:2480** | | | | | | | |
| V | 4960.38 | -42.81 | -1.28 | -44.09 | -30 | -14.09 | peak |
| V | 7440.03 | -51.77 | 8.79 | -42.98 | -30 | -12.98 | peak |
| H | 4960.38 | -40.96 | -1.28 | -42.24 | -30 | -12.24 | peak |
| H | 7440.03 | -52.18 | 8.79 | -43.39 | -30 | -13.39 | peak |

**Remark:**

1. Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.
2. All the modes had been tested, but only the worst data recorded in the report.

8.6 TEST RESULTS (Conducted measurement)

Test data reference attachment

# 9. RECEIVER SPURIOUS EMISSIONS

## 9.1 LIMITS OF RECEIVER SPURIOUS RADIATION

Refer to chapter 4.3.1.11.3 of ETSI EN 300 328 V2.2.2 (2019-07)

| RECEIVER SPURIOUS EMISSIONS | | |
|---|---|---|
| Frequency Range | Maximum Power Limit (E.R.P.(≤1 GHz) E.I.R.P.(> 1 GHz)) | Measurement Bandwidth |
| 30 MHz ~ 1 GHz | -57dBm | 100KHz |
| 1 GHz ~ 12.75 GHz | -47dBm | 1MHz |

## 9.2 TEST PROCEDURE

Refer to chapter 5.4.10.2 of ETSI EN 300 328 V2.2.2 (2019-07)

| Measurement | |
|---|---|
| ☒Conducted measurement | ☒Radiated measurement |

The setting of the Spectrum Analyzer

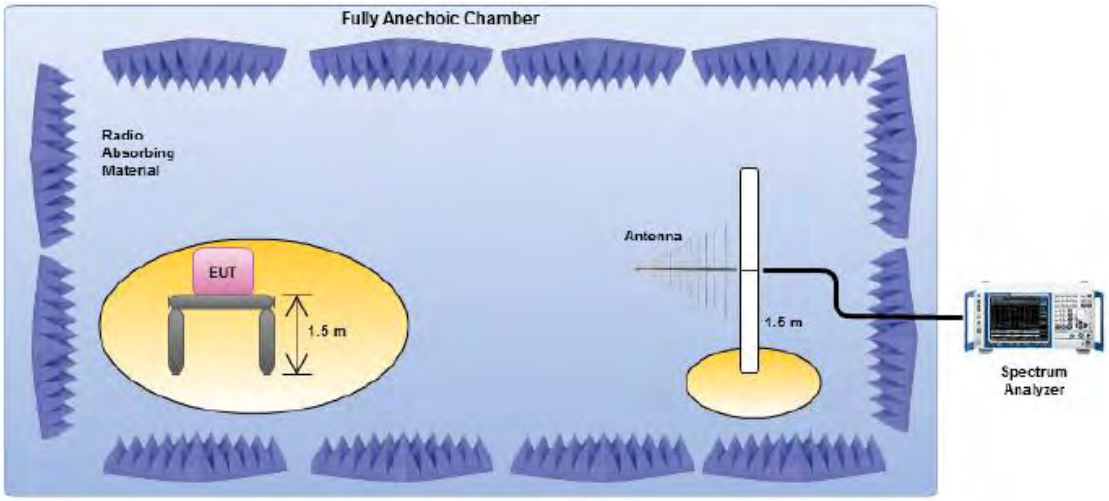
| | |
|---|---|
| RBW | 100K(＜1GHz) / 1M(＞1GHz) |
| VBW | 300K(＜1GHz) / 3M(＞1GHz) |

## 9.3 DEVIATION FROM TEST STANDARD

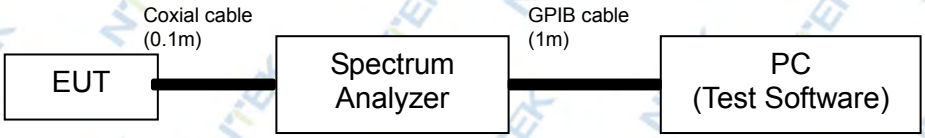
No deviation

## 9.4 TEST SETUP

Radiated measurement:




Conducted measurement:




1. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration ).
2. Testing was performed when the equipment was in a receive-only mode.
3. The measurements were performed when normal hopping was disabled. In this case measurements were performed when operating at the lowest and the highest hopping frequency.
4. The test setup has been constructed as the normal use condition. Controlling software (Button Function) has been activated to set the EUT on specific status.

## 9.5 TEST RESULTS (Radiated measurement)

RX BELOW 1 GHz WORST- CASE DATA (30 MHz ~ 1GHz)

| | | | |
|---|---|---|---|
| EUT： | 4G Tablet | Model Name ： | Tab 6 |
| Temperature： | 24 ℃ | Relative Humidity | 54% |
| Pressure： | 1010 hPa | Test Power ： | DC 3.8V |
| Test Mode ： | GFSK(CH00) | | |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBm) | Factor (dB) | Emission Level (dBm) | Limits (dBm) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| V | 40.906 | -83.73 | 12.98 | -70.75 | -57 | -13.75 | peak |
| V | 93.881 | -80.33 | 11.67 | -68.66 | -57 | -11.66 | peak |
| V | 209.688 | -79.16 | 18.94 | -60.22 | -57 | -3.22 | peak |
| V | 421.997 | -79.54 | 11.65 | -67.89 | -57 | -10.89 | peak |
| V | 482.57 | -83.56 | 11.45 | -72.11 | -57 | -15.11 | peak |
| V | 726.281 | -77.93 | 11.45 | -66.48 | -57 | -9.48 | peak |
| H | 36.551 | -83.88 | 18.60 | -65.28 | -57 | -8.28 | peak |
| H | 103.335 | -81.15 | 18.11 | -63.04 | -57 | -6.04 | peak |
| H | 202.889 | -82.5 | 10.30 | -72.20 | -57 | -15.20 | peak |
| H | 347.765 | -82.02 | 15.00 | -67.02 | -57 | -10.02 | peak |
| H | 636.831 | -82.05 | 14.63 | -67.42 | -57 | -10.42 | peak |
| H | 734.099 | -78.07 | 14.63 | -63.44 | -57 | -6.44 | peak |

**Remark:**

1. Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.
2. All the modes had been tested, but only the worst data recorded in the report.

RX ABOVE 1 GHz WORST- CASE DATA (1GHz ~ 12.75GHz)

| | | | |
|---|---|---|---|
| EUT： | 4G Tablet | Model Name ： | Tab 6 |
| Temperature： | 24 ℃ | Relative Humidity | 54% |
| Pressure： | 1010 hPa | Test Power ： | DC 3.8V |
| Test Mode ： | GFSK (CH00) | | |

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBm) | Factor (dB) | Emission Level (dBm) | Limits (dBm) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|
| V | 1646.56 | -77.96 | 9.94 | -68.02 | -47 | -21.02 | peak |
| V | 2337.13 | -83.03 | 9.82 | -73.21 | -47 | -26.21 | peak |
| V | 3357.14 | -80.90 | 10.02 | -70.88 | -47 | -23.88 | peak |
| V | 4724.90 | -79.39 | 16.13 | -63.26 | -47 | -16.26 | peak |
| V | 4330.43 | -84.18 | 16.13 | -68.05 | -47 | -21.05 | peak |
| V | 4665.37 | -78.32 | 16.13 | -62.19 | -47 | -15.19 | peak |
| H | 2421.49 | -79.89 | 10.11 | -69.78 | -47 | -22.78 | peak |
| H | 2872.67 | -84.33 | 10.68 | -73.65 | -47 | -26.65 | peak |
| H | 3232.10 | -82.62 | 10.21 | -72.41 | -47 | -25.41 | peak |
| H | 3868.23 | -79.19 | 11.23 | -67.96 | -47 | -20.96 | peak |
| H | 4024.91 | -83.59 | 8.6 | -74.99 | -47 | -27.99 | peak |
| H | 5794.56 | -80.22 | 14.56 | -65.66 | -47 | -18.66 | peak |

1. Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.
2. All the modes had been tested, but only the worst data recorded in the report.

9.6 TEST RESULTS (Conducted measurement)

Test data reference attachment

# 10. RECEIVER BLOCKING

## 10.1 PERFORMANCE CRITERIA

The minimum performance criterion shall be a PER less than or equal to 10 %. The manufacturer may declare alternative performance criteria as long as that is appropriate for the intended use of the equipment (see clause 5.4.1.t)).

## 10.2 LIMITS OF RECEIVER BLOCKING

While maintaining the minimum performance criteria as defined in clause 4.3.1.12.3, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined for the applicable receiver category provided in table 6, table 7 or table 8.

**☐Table 6: Receiver Blocking parameters for Receiver Category 1 equipment**

| **Wanted signal mean power from companion device (dBm) (see notes 1 and 4)** | **Blocking signal Frequency (MHz)** | **Blocking signal power (dBm) (see note 4)** | **Type of blocking signal** |
|---|---|---|---|
| (-133 dBm + 10 × $\log_{10}$(OCBW)) or -68 dBm whichever is less (see note 2) | 2 380<br>2 504 | -34 | CW |
| (-139 dBm + 10 × $\log_{10}$(OCBW)) or -74 dBm whichever is less (see note 3) | 2 300<br>2 330<br>2 360<br>2524<br>2584<br>2674 | | |

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{min}$ + 26 dB where $P_{min}$ is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{min}$ + 20 dB where $P_{min}$ is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

☒**Table 7: Receiver Blocking parameters receiver category 2 equipment**

| **Wanted signal mean power from companion device (dBm) (see notes 1 and 3)** | **Blocking signal Frequency (MHz)** | **Blocking signal power (dBm) (see note 3)** | **Type of blocking signal** |
|---|---|---|---|
| (-139 dBm + 10 × $\log_{10}$(OCBW) + 10 dB) or (-74 dBm + 10 dB) whichever is less (see note 2) | 2 380<br>2 504<br>2 300<br>2 584 | -34 | CW |

NOTE 1: OCBW is in Hz.
NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{min}$ + 26 dB where $P_{min}$ is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.
NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements,this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

☐**Table 8: Receiver Blocking parameters receiver category 3 equipment**

| **Wanted signal mean power from companion device (dBm)** | **Blocking signal Frequency (MHz)** | **Blocking signal power (dBm) (see note 2)** | **Type of blocking signal** |
|---|---|---|---|
| (-139 dBm + 10 × $\log_{10}$(OCBW) + 20 dB) or (-74 dBm + 20 dB) whichever is less (see note 2) | 2 380<br>2 504<br>2 300<br>2 584 | -34 | CW |

NOTE 1: OCBW is in Hz.
NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative the test may be performed using a wanted signal up to $P_{min}$ + 30 dB where $P_{min}$ is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.
NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

## 10.3 TEST PROCEDURE

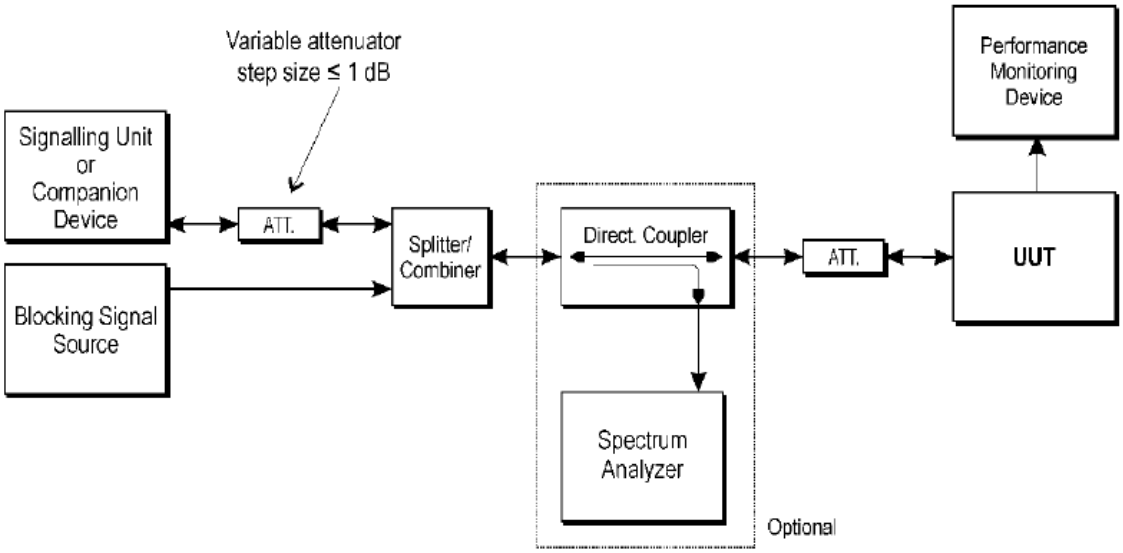
Refer to chapter 5.4.11.2 of ETSI EN 300 328 V2.2.2 (2019-07)

| Measurement | |
|---|---|
| ☒Conducted measurement | ☐Radiated measurement |

## 10.4 DEVIATION FROM TEST STANDARD

No deviation

## 10.5 TEST SETUP



10.6 TEST RESULTS

| | | | |
|---|---|---|---|
| EUT： | 4G Tablet | Model Name ： | Tab 6 |
| Temperature： | 24 ℃ | Relative Humidity | 54% |
| Pressure： | 1010 hPa | Test Power ： | DC 3.8V |
| Test Mode ： | GFSK Hopping mode (RX) | | |

**receiver category 2**

| Wanted signal mean power from companion device (dBm) (see notes 1 and 3) | Blocking signal Frequency (MHz) | Blocking signal power(dBm) (see note 3) | PER % | PER Limit % |
|---|---|---|---|---|
| -68.67 | 2 380 | -34 | 0.03% | ≤10 |
| | 2 504 | | 0.08% | |
| | 2 300 | | 0.85% | ≤10 |
| | 2 584 | | 0.42% | |

| | | | |
|---|---|---|---|
| EUT： | 4G Tablet | Model Name ： | Tab 6 |
| Temperature： | 24 ℃ | Relative Humidity | 54% |
| Pressure： | 1010 hPa | Test Power ： | DC 3.8V |
| Test Mode ： | ∏/4-DQPSK Hopping mode (RX) | | |

**receiver category 2**

| Wanted signal mean power from companion device (dBm) (see notes 1 and 3) | Blocking signal Frequency (MHz) | Blocking signal power(dBm) (see note 3) | PER % | PER Limit % |
|---|---|---|---|---|
| -67.37 | 2 380 | -34 | 0.43% | ≤10 |
| | 2 504 | | 0.37% | |
| | 2 300 | | 0.79% | ≤10 |
| | 2 584 | | 0.23% | |

| | | | |
|---|---|---|---|
| EUT： | 4G Tablet | Model Name ： | Tab 6 |
| Temperature： | 24 ℃ | Relative Humidity | 54% |
| Pressure： | 1010 hPa | Test Power ： | DC 3.8V |
| Test Mode ： | 8-DPSK Hopping mode (RX) | | |

**receiver category 2**

| Wanted signal mean power from companion device (dBm) (see notes 1 and 3) | Blocking signal Frequency (MHz) | Blocking signal power(dBm) (see note 3) | PER % | PER Limit % |
|---|---|---|---|---|
| -67.29 | 2 380 | -34 | 0.59% | ≤10 |
| | 2 504 | | 0.42% | |
| | 2 300 | | 0.41% | ≤10 |
| | 2 584 | | 0.43% | |

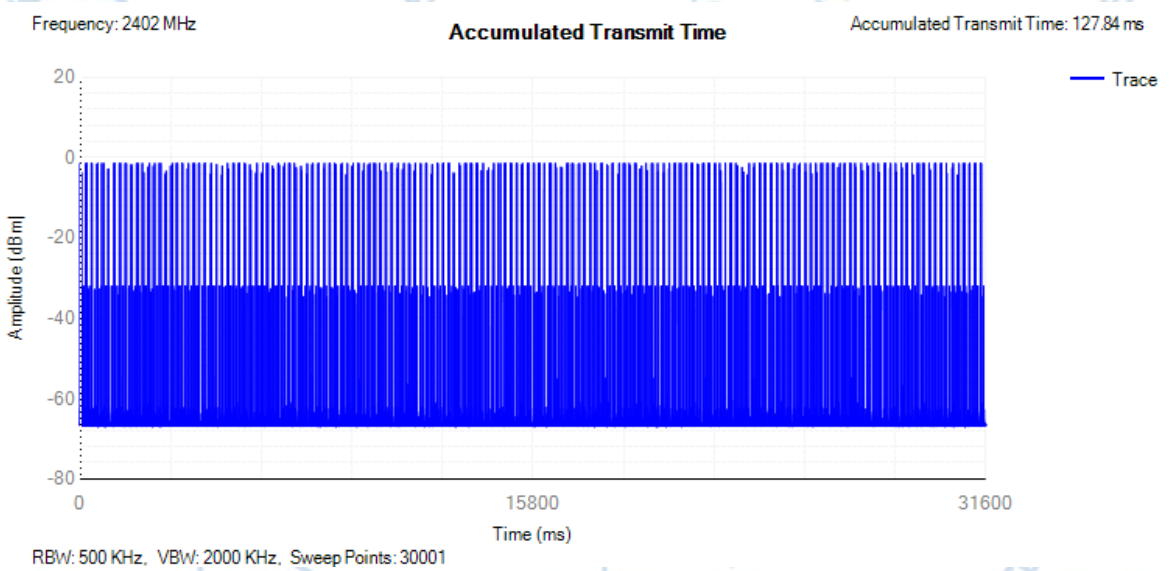
Note: (1) The above results were obtained from laboratory tests.

# 11. TEST RESULTS

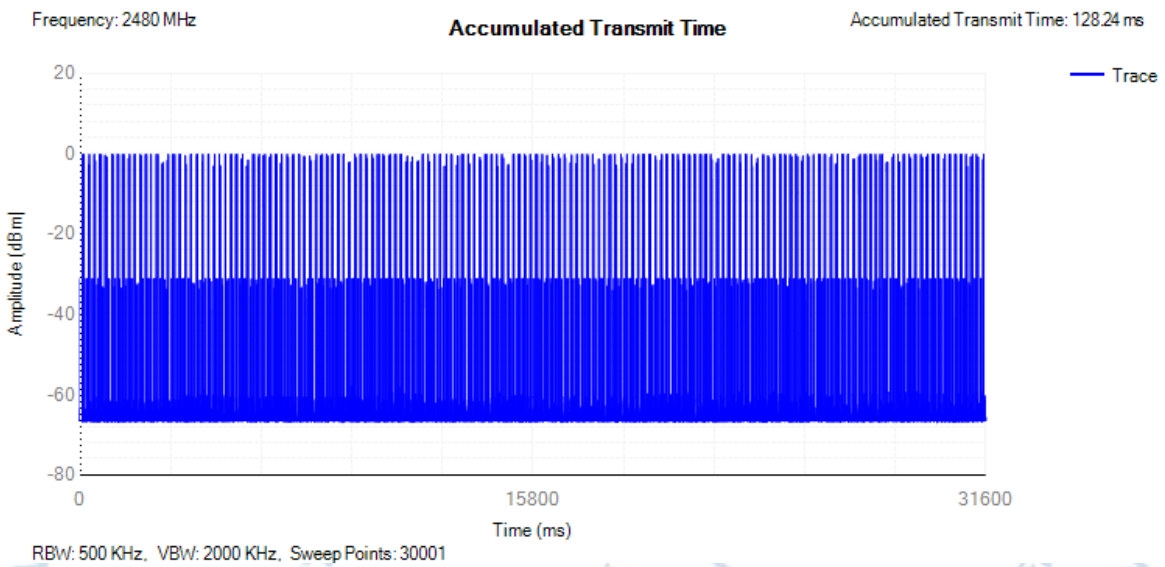
## 11.1 ACCUMULATED TRANSMIT TIME

| Condition | Mode | Frequency (MHz) | Accumulated Transmit Time (ms) | Limit (ms) | Sweep Time (ms) | Burst Number | Verdict |
|---|---|---|---|---|---|---|---|
| NVNT | 1-DH1 | 2402 | 127.836 | 400 | 31600 | 318 | Pass |
| NVNT | 1-DH1 | 2480 | 128.238 | 400 | 31600 | 319 | Pass |
| NVNT | 1-DH3 | 2402 | 268.758 | 400 | 31600 | 162 | Pass |
| NVNT | 1-DH3 | 2480 | 263.781 | 400 | 31600 | 159 | Pass |
| NVNT | 1-DH5 | 2402 | 327.248 | 400 | 31600 | 113 | Pass |
| NVNT | 1-DH5 | 2480 | 304.92 | 400 | 31600 | 105 | Pass |
| NVNT | 2-DH1 | 2402 | 125.76 | 400 | 31600 | 320 | Pass |
| NVNT | 2-DH1 | 2480 | 123.84 | 400 | 31600 | 320 | Pass |
| NVNT | 2-DH3 | 2402 | 281.124 | 400 | 31600 | 171 | Pass |
| NVNT | 2-DH3 | 2480 | 278.343 | 400 | 31600 | 169 | Pass |
| NVNT | 2-DH5 | 2402 | 297.464 | 400 | 31600 | 103 | Pass |
| NVNT | 2-DH5 | 2480 | 297.464 | 400 | 31600 | 103 | Pass |
| NVNT | 3-DH1 | 2402 | 121.92 | 400 | 31600 | 320 | Pass |
| NVNT | 3-DH1 | 2480 | 125.76 | 400 | 31600 | 320 | Pass |
| NVNT | 3-DH3 | 2402 | 263.898 | 400 | 31600 | 162 | Pass |
| NVNT | 3-DH3 | 2480 | 244.062 | 400 | 31600 | 149 | Pass |
| NVNT | 3-DH5 | 2402 | 343.672 | 400 | 31600 | 119 | Pass |
| NVNT | 3-DH5 | 2480 | 306.976 | 400 | 31600 | 106 | Pass |

Dwell NVNT 1-DH1 2402MHz

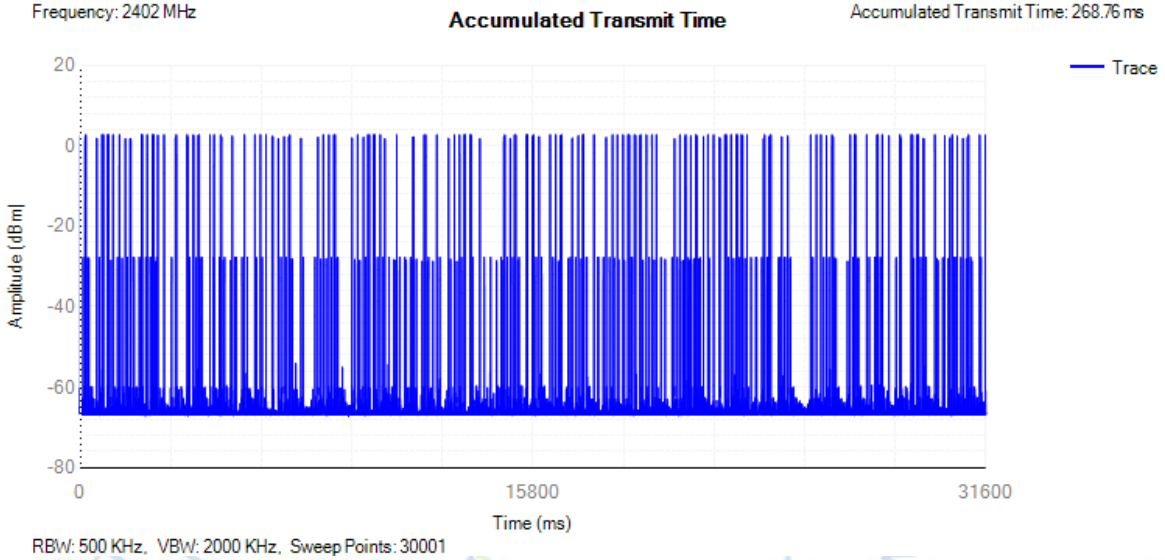


Dwell NVNT 1-DH1 2480MHz



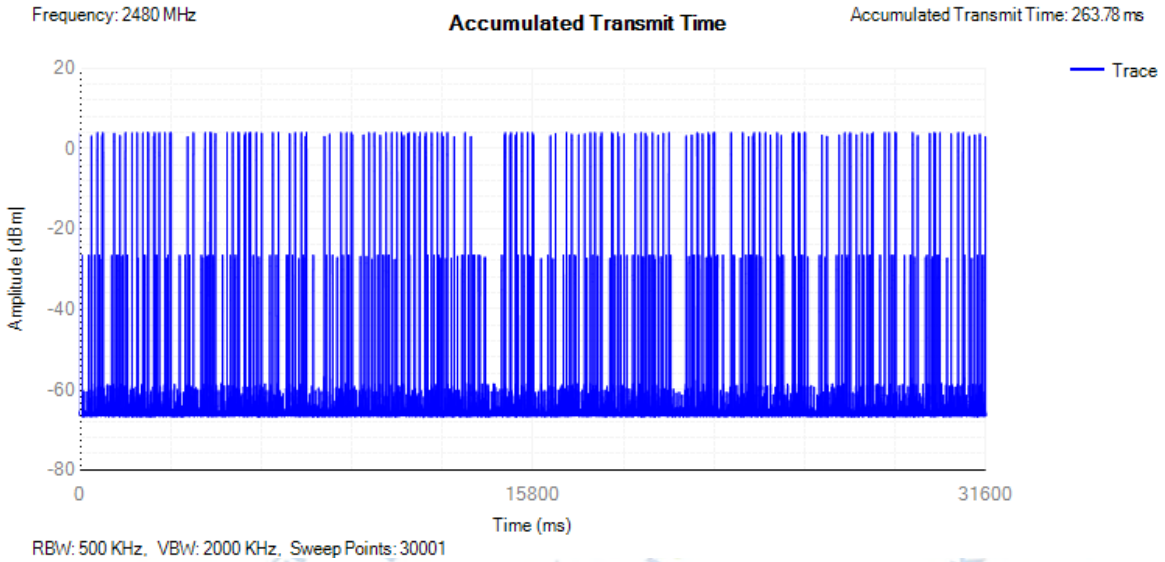

RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001

Dwell NVNT 1-DH3 2402MHz



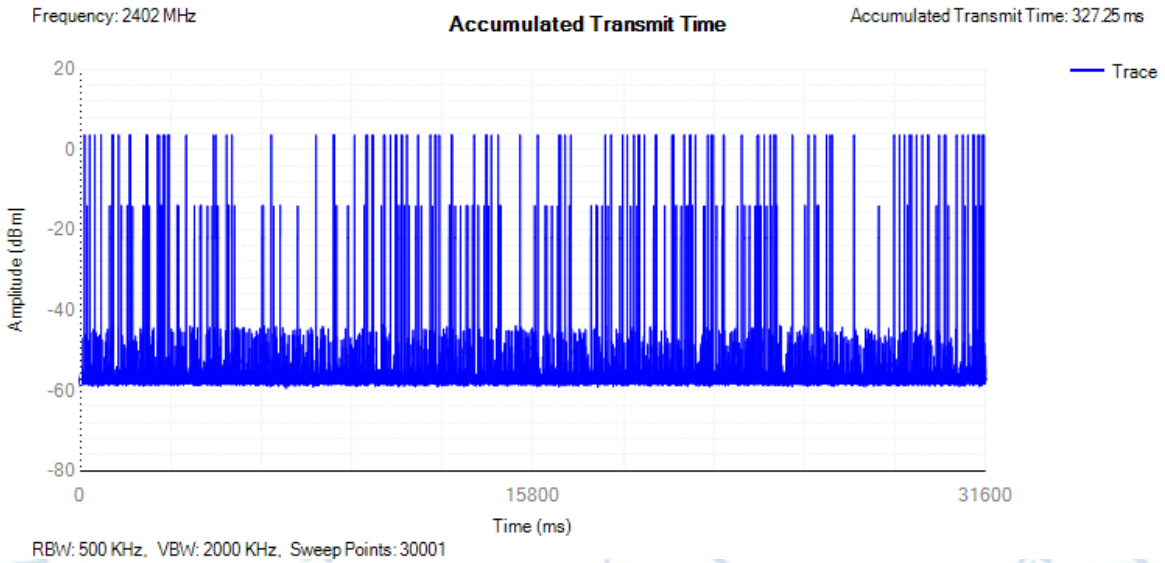

RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001

Dwell NVNT 1-DH3 2480MHz



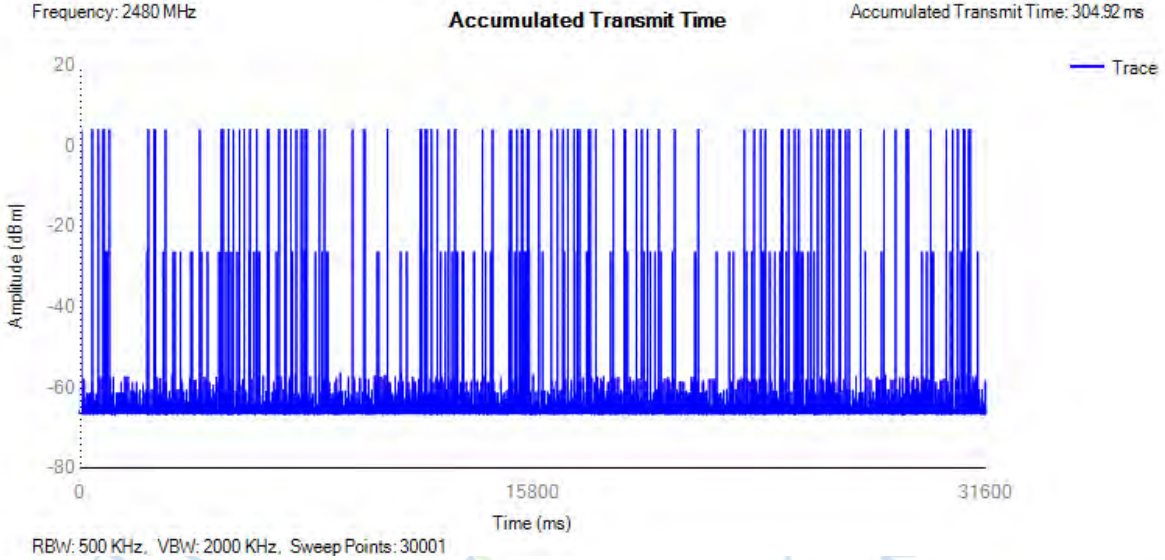

RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001

Dwell NVNT 1-DH5 2402MHz



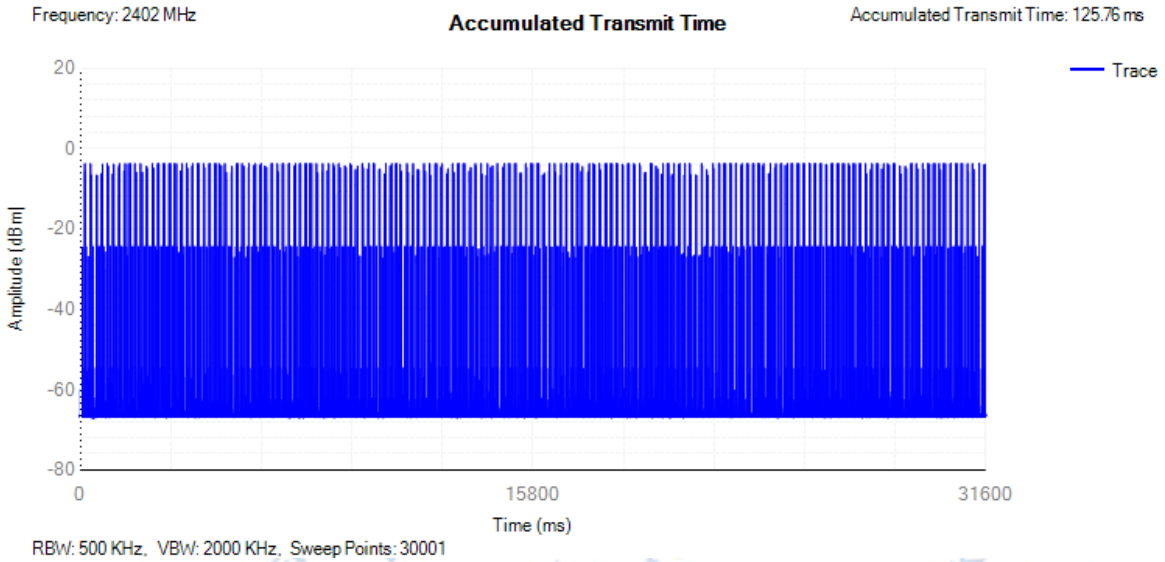

RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001

Dwell NVNT 1-DH5 2480MHz



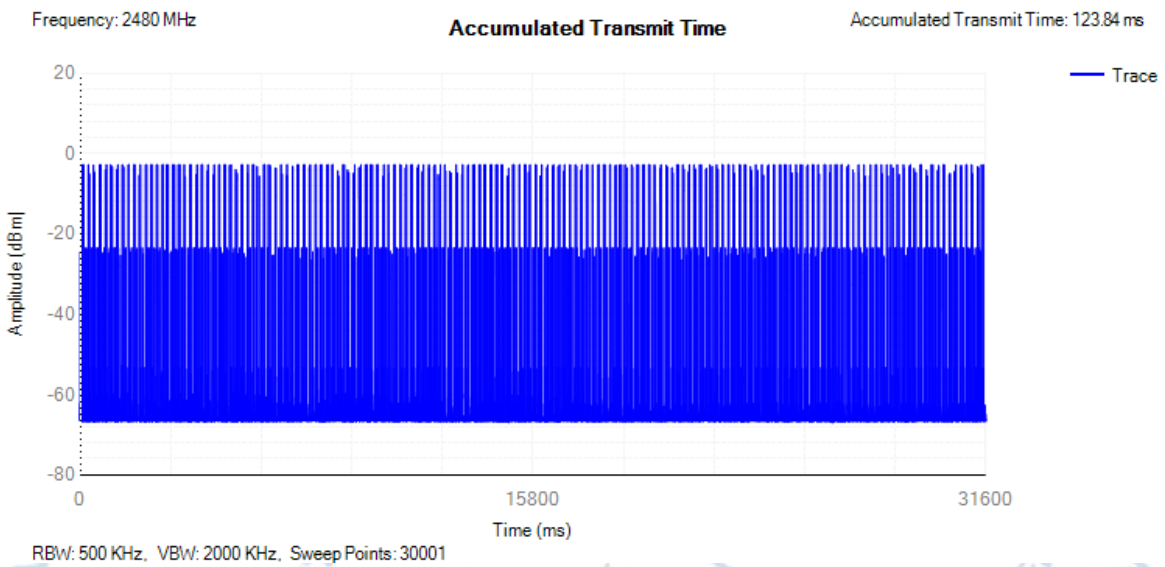

RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001

Dwell NVNT 2-DH1 2402MHz



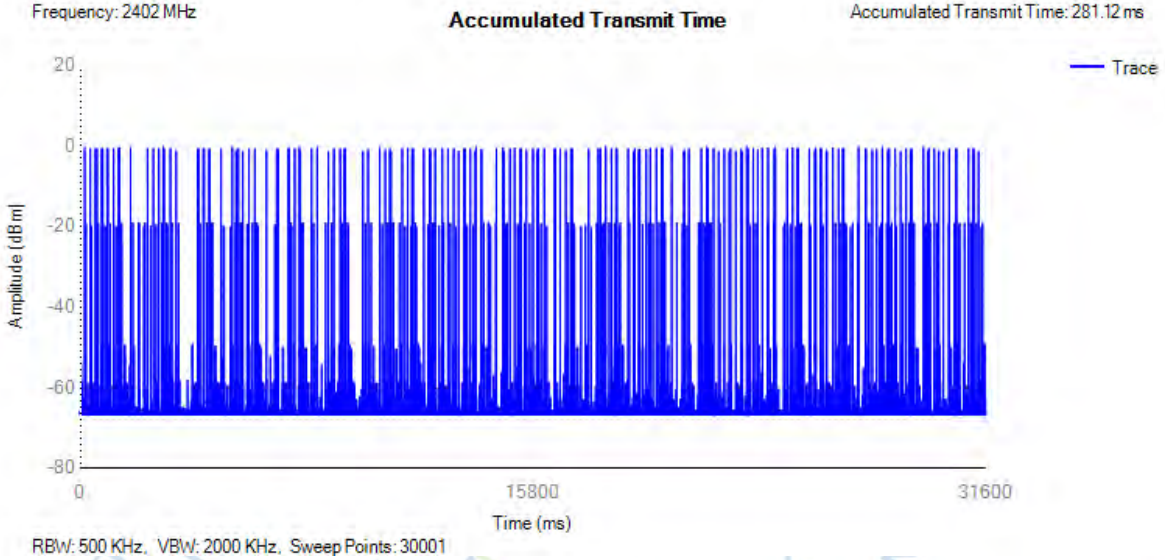

RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001

Dwell NVNT 2-DH1 2480MHz



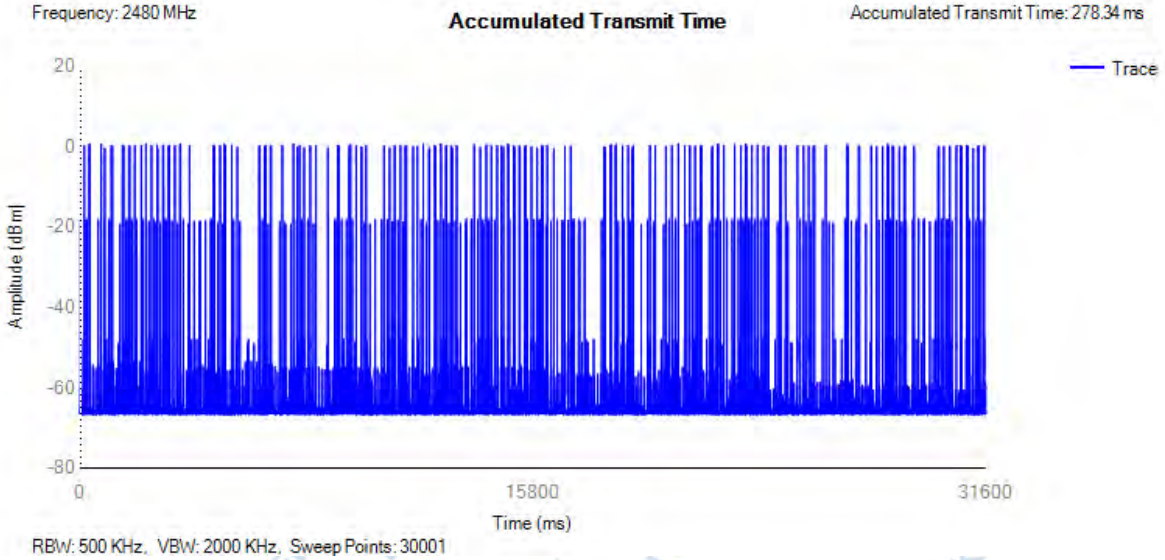

RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001

Dwell NVNT 2-DH3 2402MHz



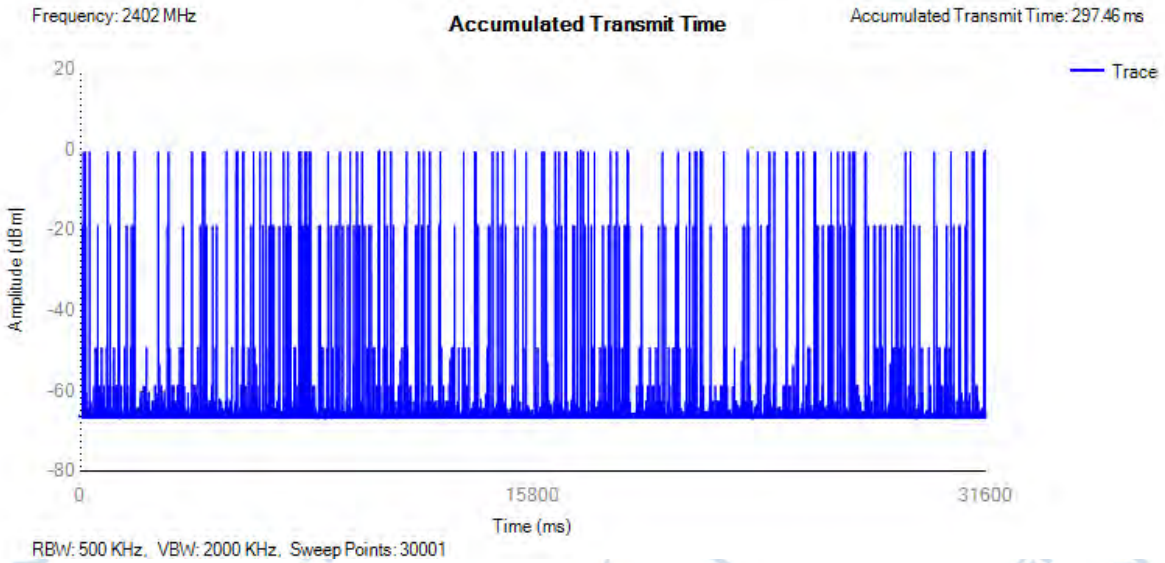

RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001

Dwell NVNT 2-DH3 2480MHz

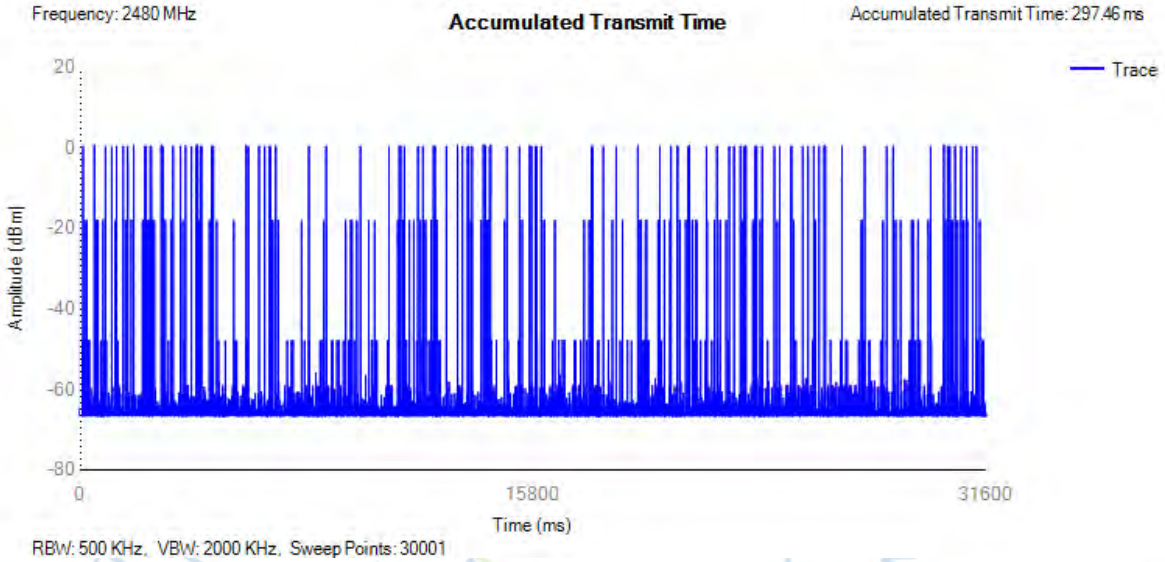



RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001

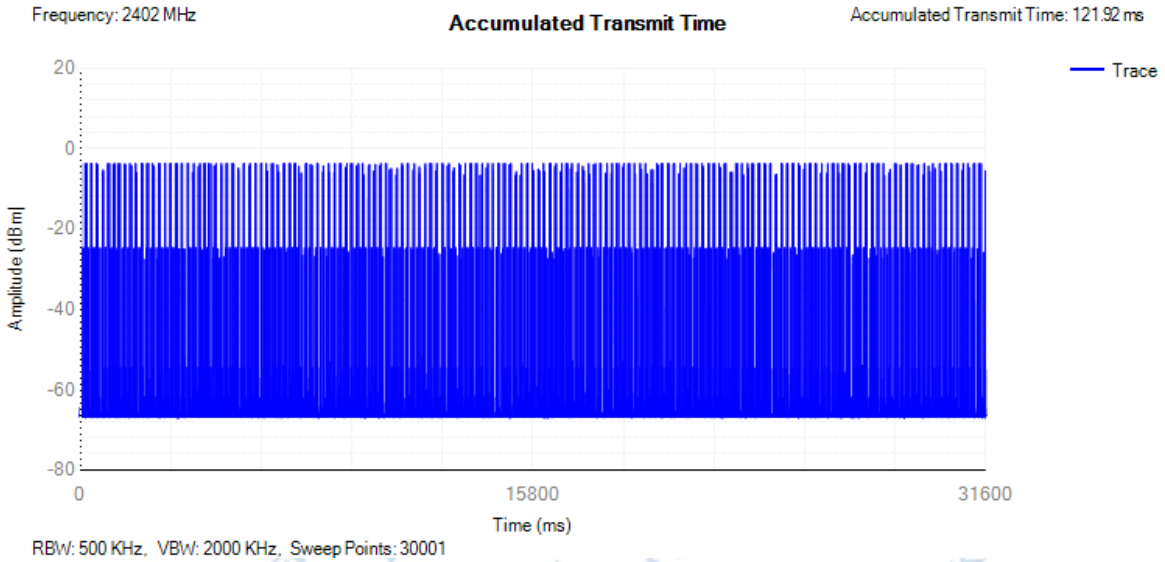
Dwell NVNT 2-DH5 2402MHz



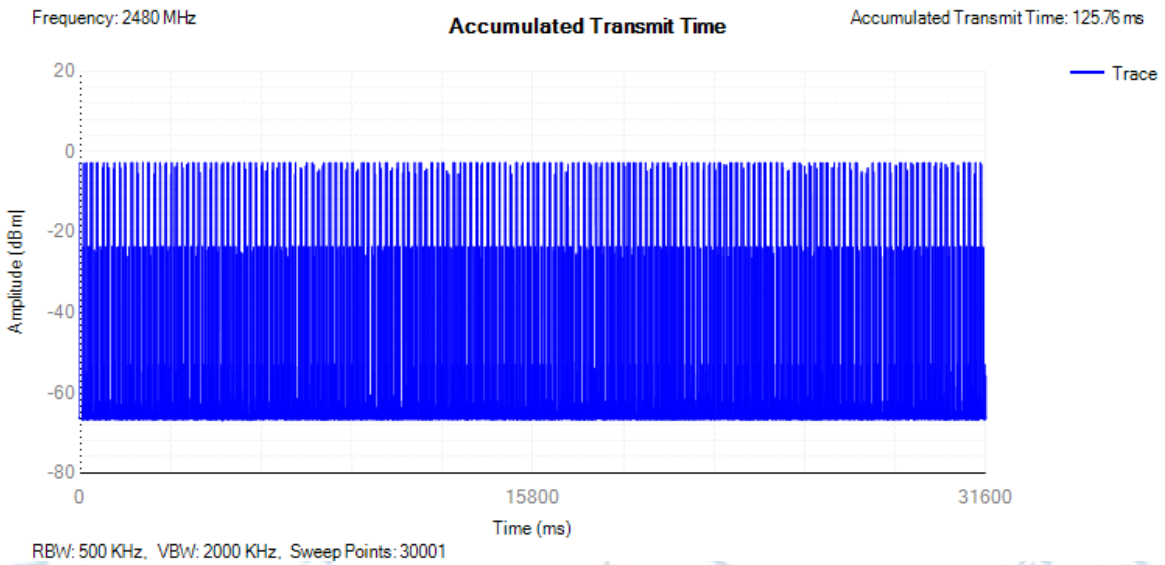

Dwell NVNT 2-DH5 2480MHz



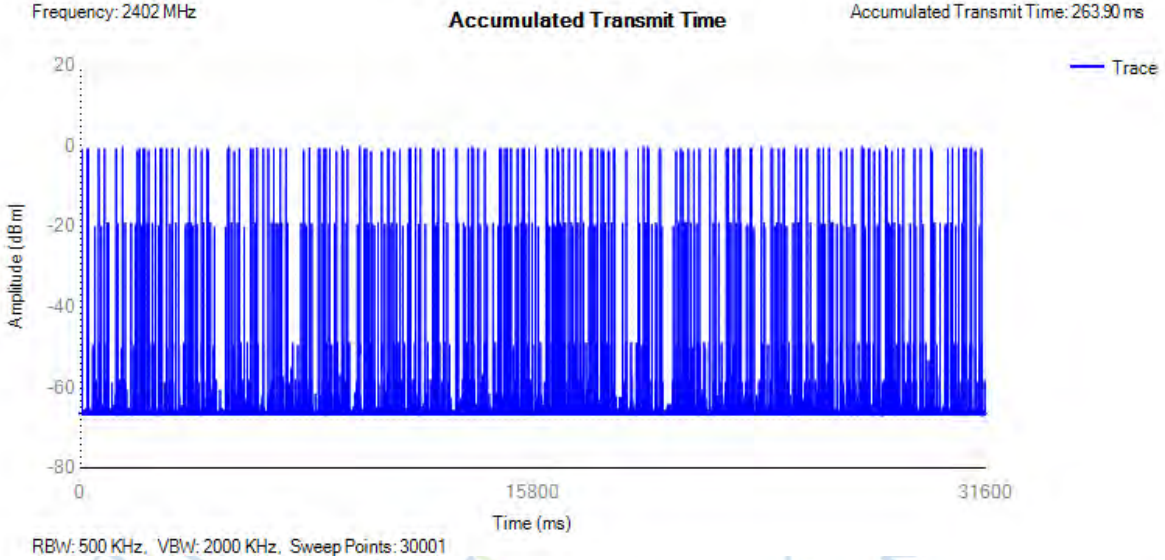

Dwell NVNT 3-DH1 2402MHz



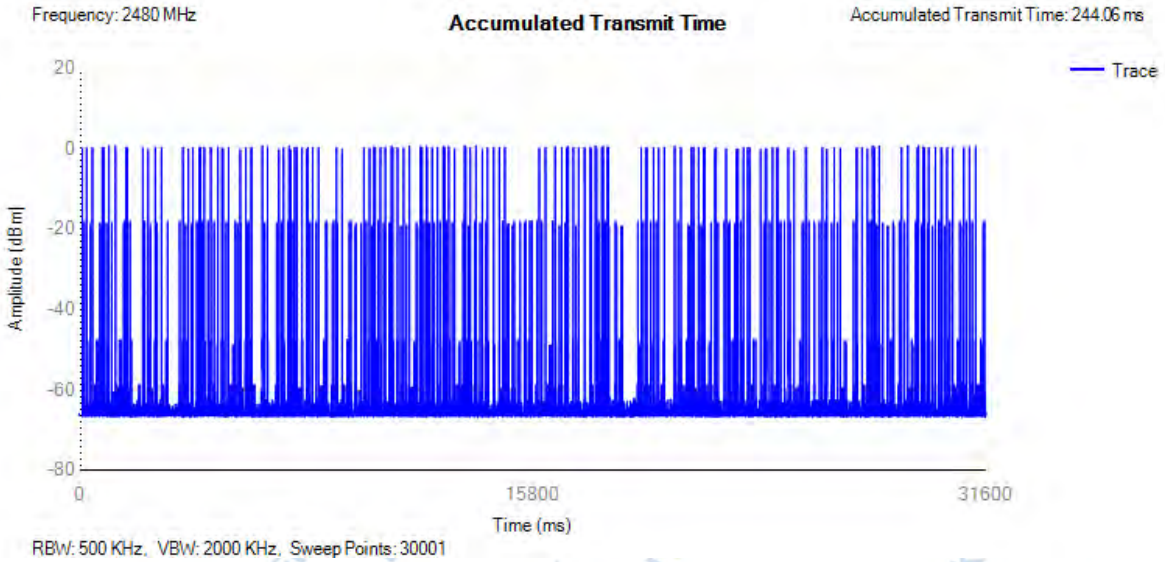
Dwell NVNT 3-DH1 2480MHz



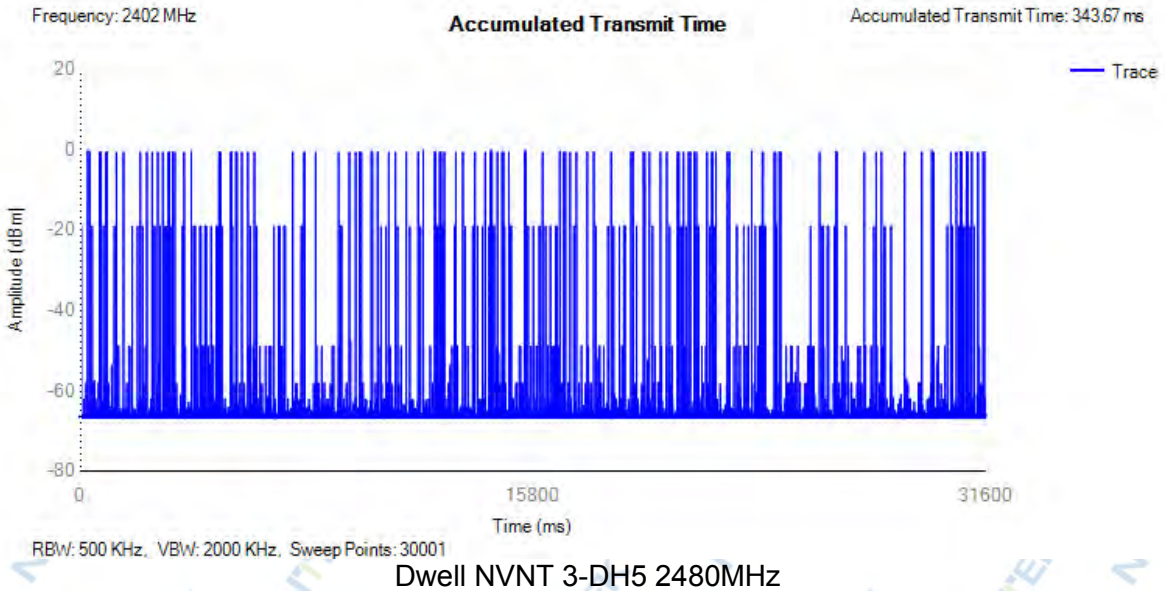

Dwell NVNT 3-DH3 2402MHz



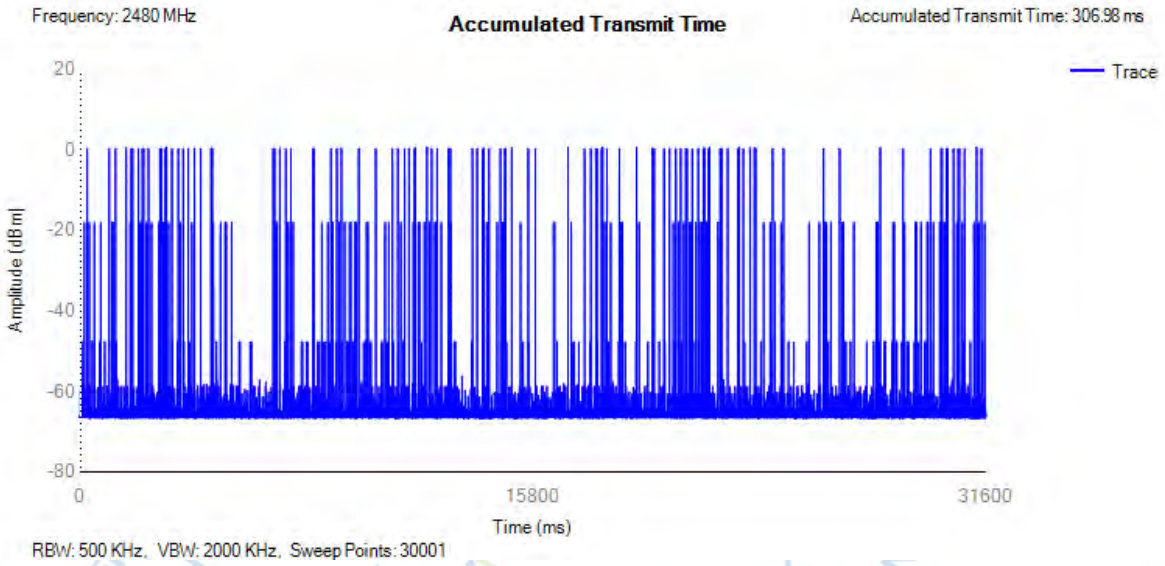

Dwell NVNT 3-DH3 2480MHz



Dwell NVNT 3-DH5 2402MHz



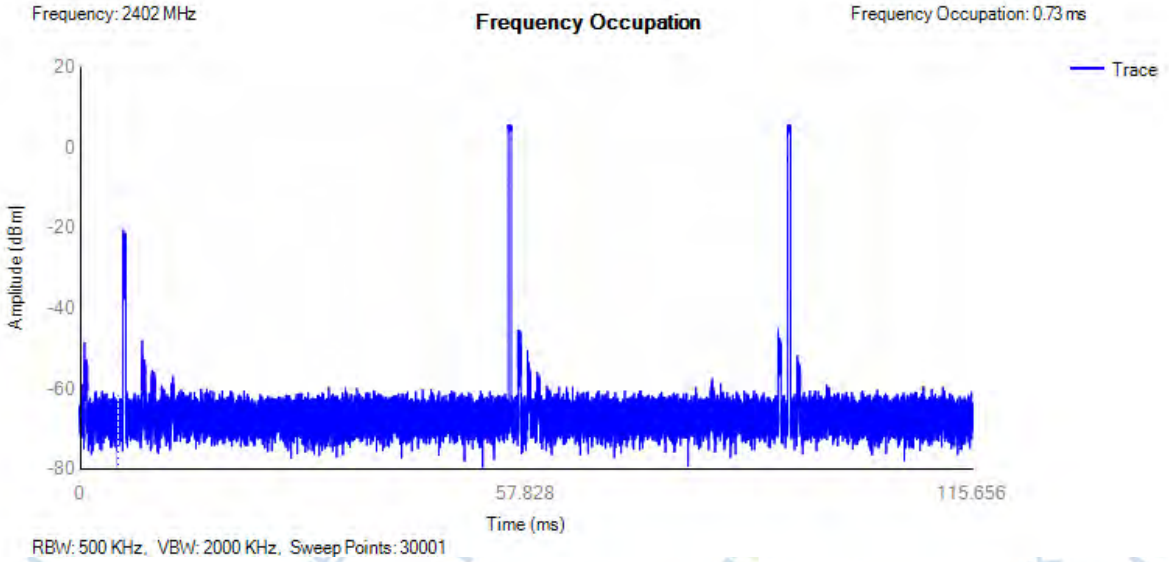

Dwell NVNT 3-DH5 2480MHz



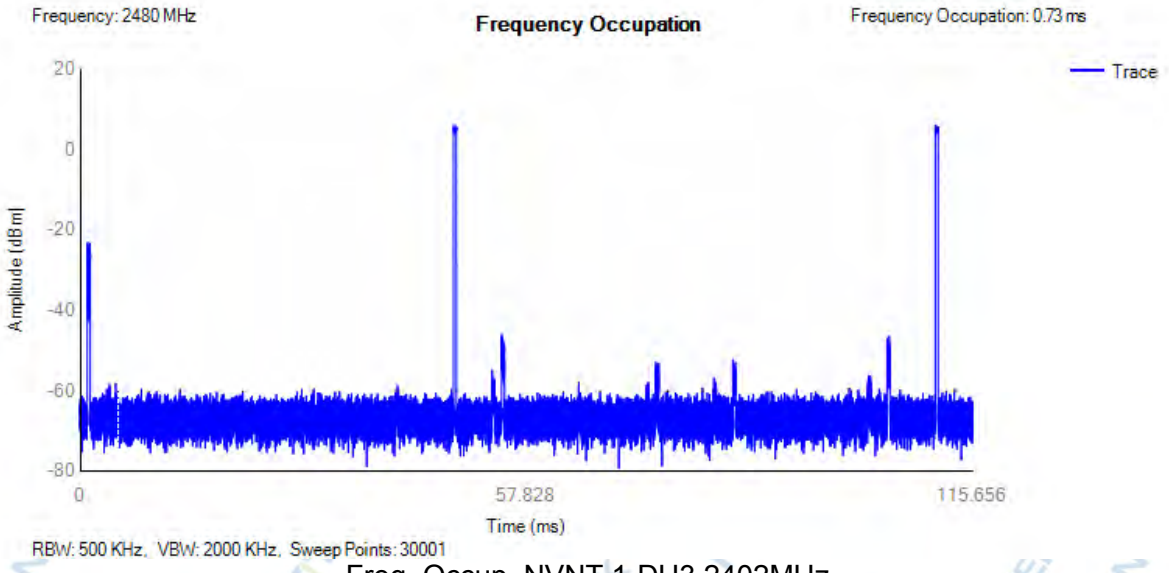
## 11.2 FREQUENCY OCCUPATION

| Condition | Mode | Frequency (MHz) | Frequency Occupation (ms) | Limit (ms) | Sweep Time (ms) | Burst Number | Verdict |
|---|---|---|---|---|---|---|---|
| NVNT | 1-DH1 | 2402 | 0.732 | 0 | 115.656 | 2 | Pass |
| NVNT | 1-DH1 | 2480 | 0.732 | 0 | 115.656 | 2 | Pass |
| NVNT | 1-DH3 | 2402 | 3.246 | 0 | 512.868 | 2 | Pass |
| NVNT | 1-DH3 | 2480 | 4.869 | 0 | 512.868 | 3 | Pass |
| NVNT | 1-DH5 | 2402 | 8.592 | 0 | 905.024 | 3 | Pass |
| NVNT | 1-DH5 | 2480 | 14.32 | 0 | 905.024 | 5 | Pass |
| NVNT | 2-DH1 | 2402 | 0.738 | 0 | 116.604 | 2 | Pass |
| NVNT | 2-DH1 | 2480 | 0.375 | 0 | 118.5 | 1 | Pass |
| NVNT | 2-DH3 | 2402 | 8.115 | 0 | 512.868 | 5 | Pass |
| NVNT | 2-DH3 | 2480 | 4.878 | 0 | 513.816 | 3 | Pass |
| NVNT | 2-DH5 | 2402 | 11.488 | 0 | 907.552 | 4 | Pass |
| NVNT | 2-DH5 | 2480 | 8.616 | 0 | 907.552 | 3 | Pass |
| NVNT | 3-DH1 | 2402 | 1.125 | 0 | 118.5 | 3 | Pass |
| NVNT | 3-DH1 | 2480 | 0.369 | 0 | 116.604 | 1 | Pass |
| NVNT | 3-DH3 | 2402 | 6.468 | 0 | 510.972 | 4 | Pass |
| NVNT | 3-DH3 | 2480 | 4.86 | 0 | 511.92 | 3 | Pass |
| NVNT | 3-DH5 | 2402 | 17.232 | 0 | 907.552 | 6 | Pass |
| NVNT | 3-DH5 | 2480 | 5.744 | 0 | 907.552 | 2 | Pass |

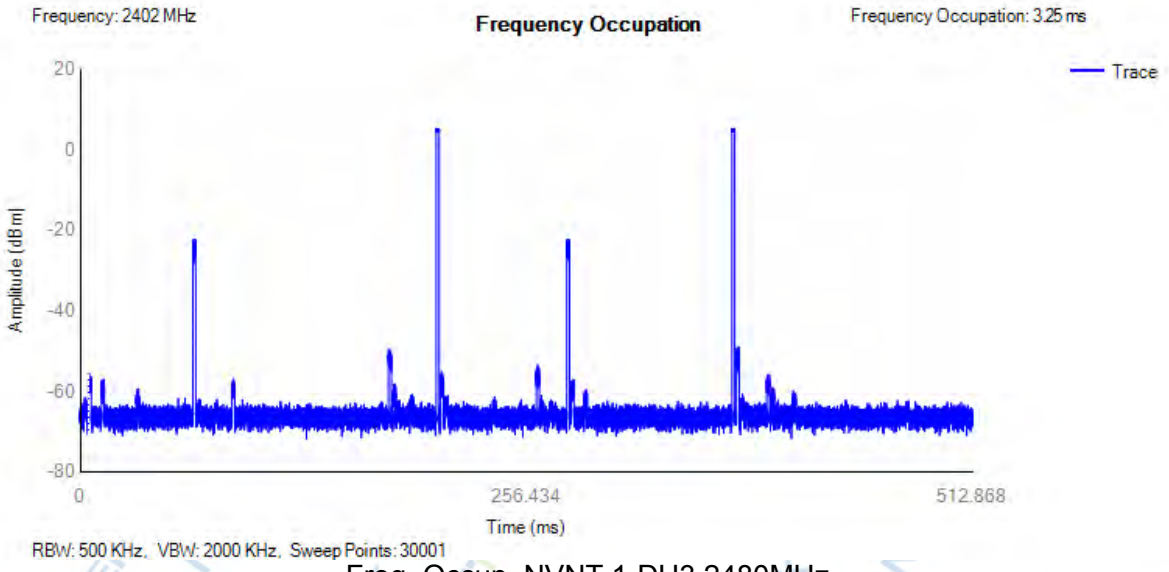
Freq. Occup. NVNT 1-DH1 2402MHz



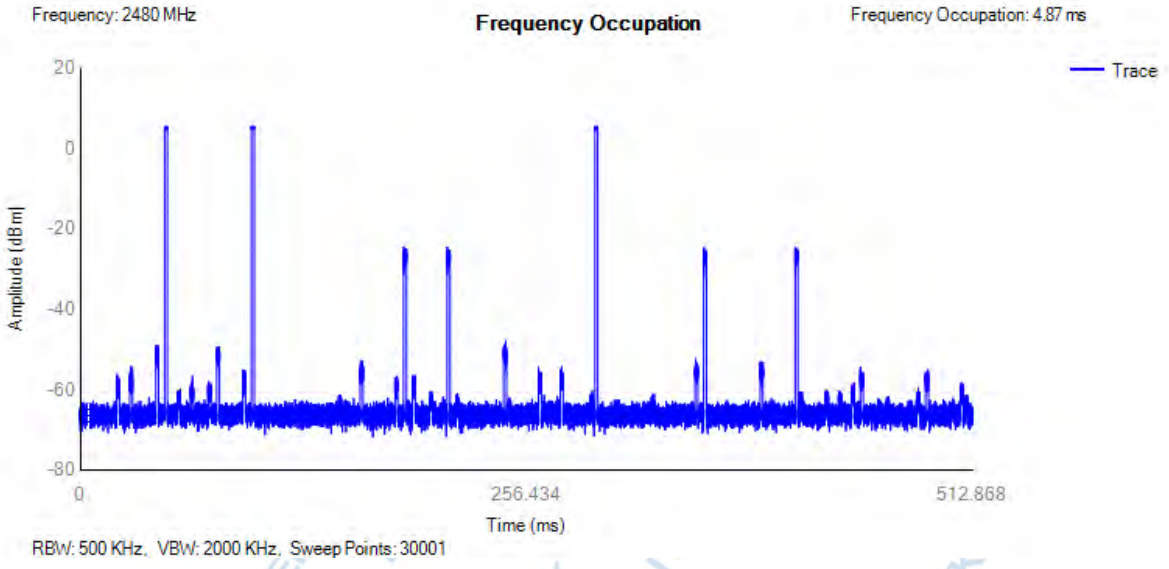
Freq. Occup. NVNT 1-DH1 2480MHz



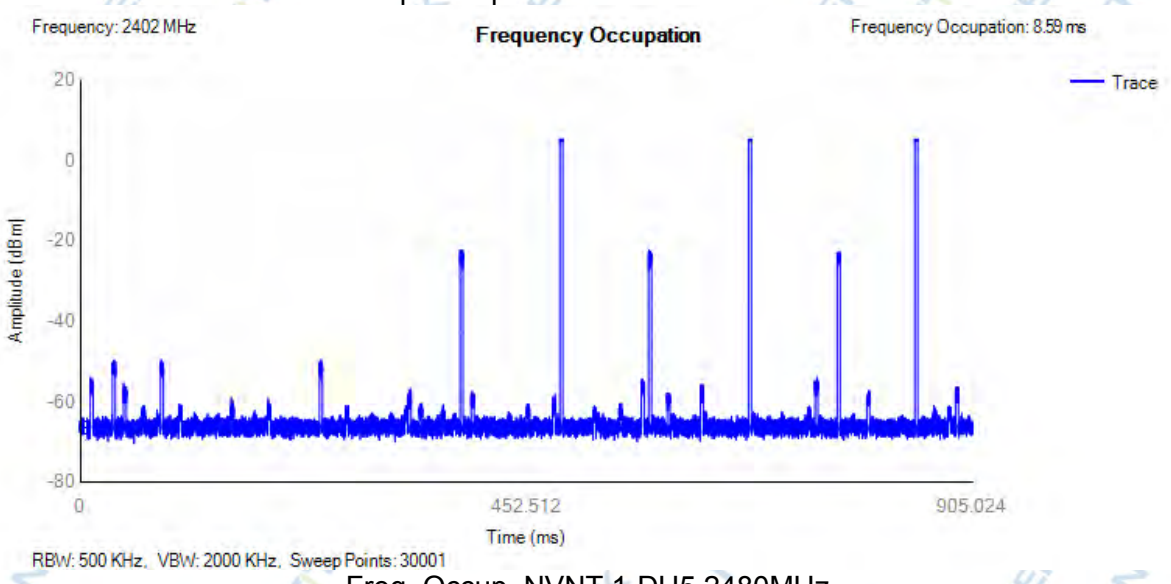

Freq. Occup. NVNT 1-DH3 2402MHz



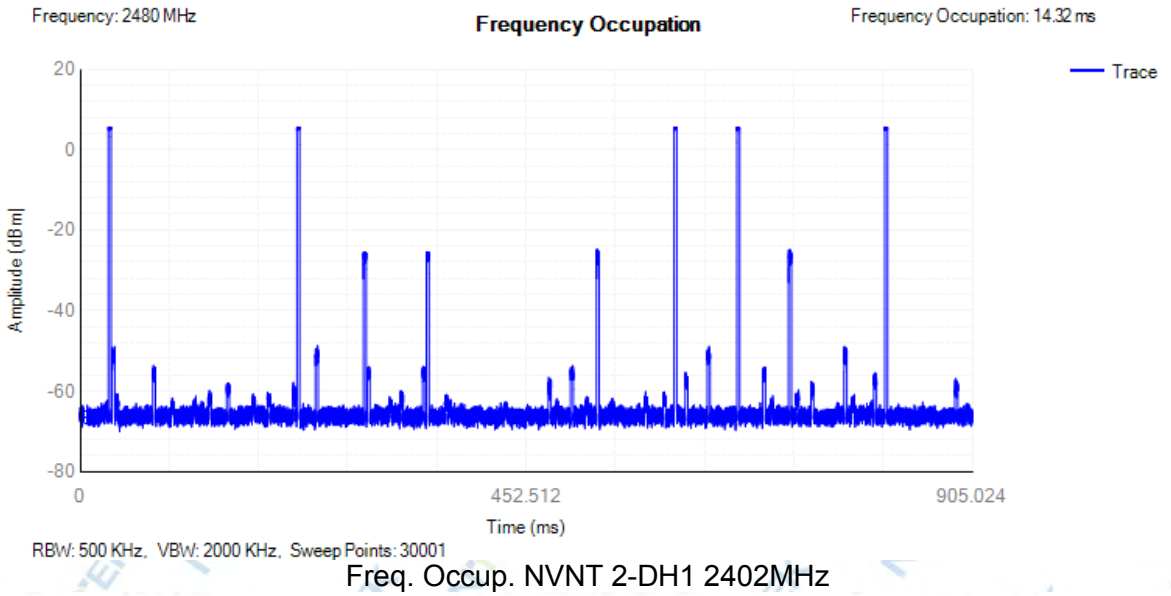

Freq. Occup. NVNT 1-DH3 2480MHz



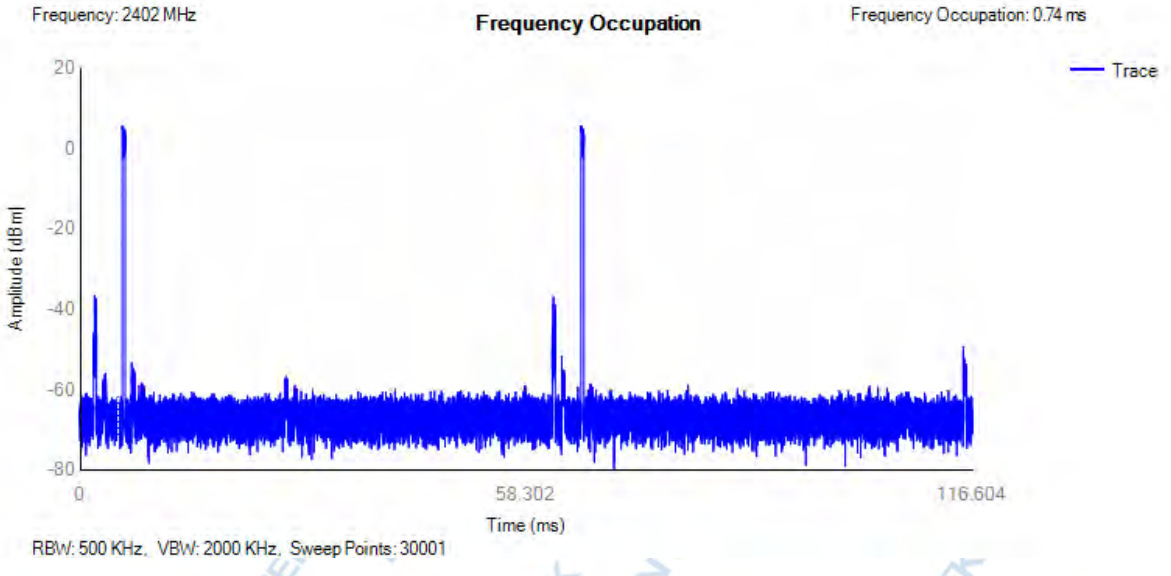
Freq. Occup. NVNT 1-DH5 2402MHz



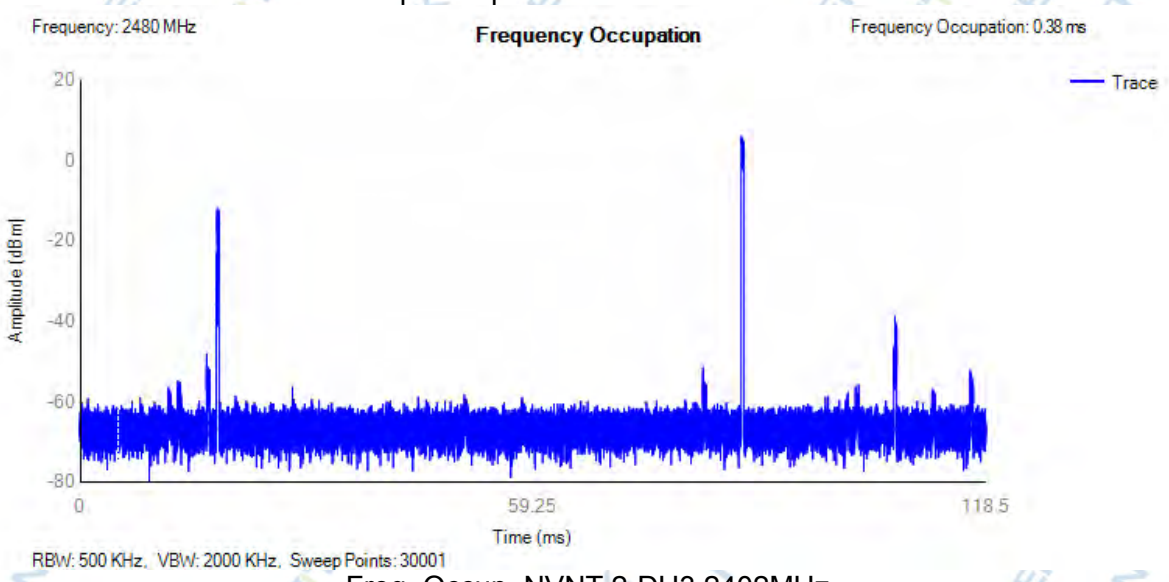

Freq. Occup. NVNT 1-DH5 2480MHz



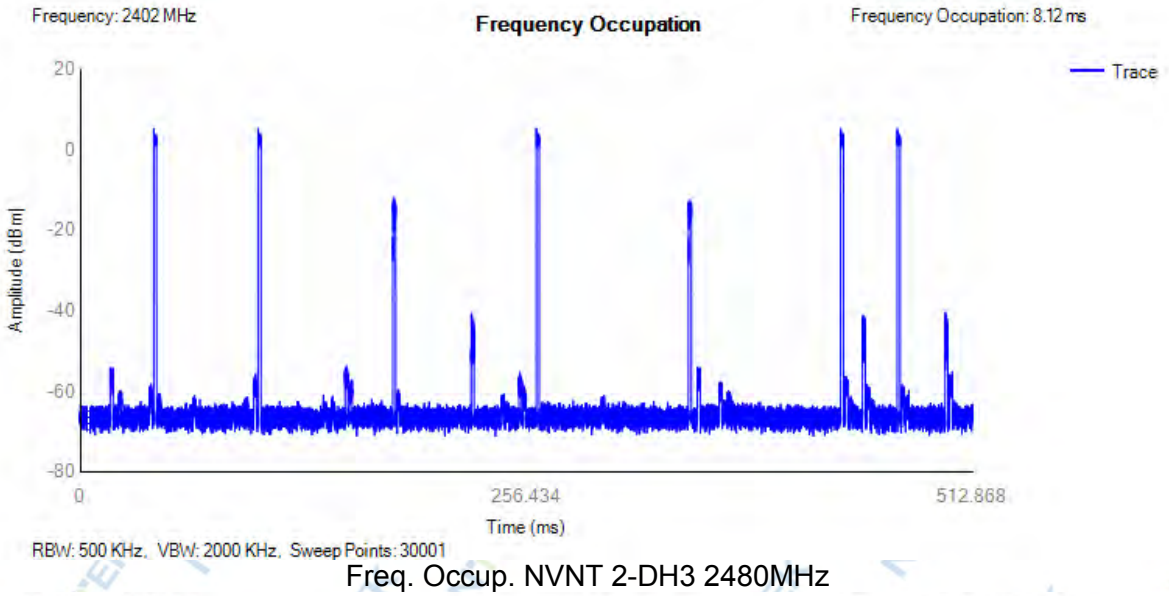

Freq. Occup. NVNT 2-DH1 2402MHz



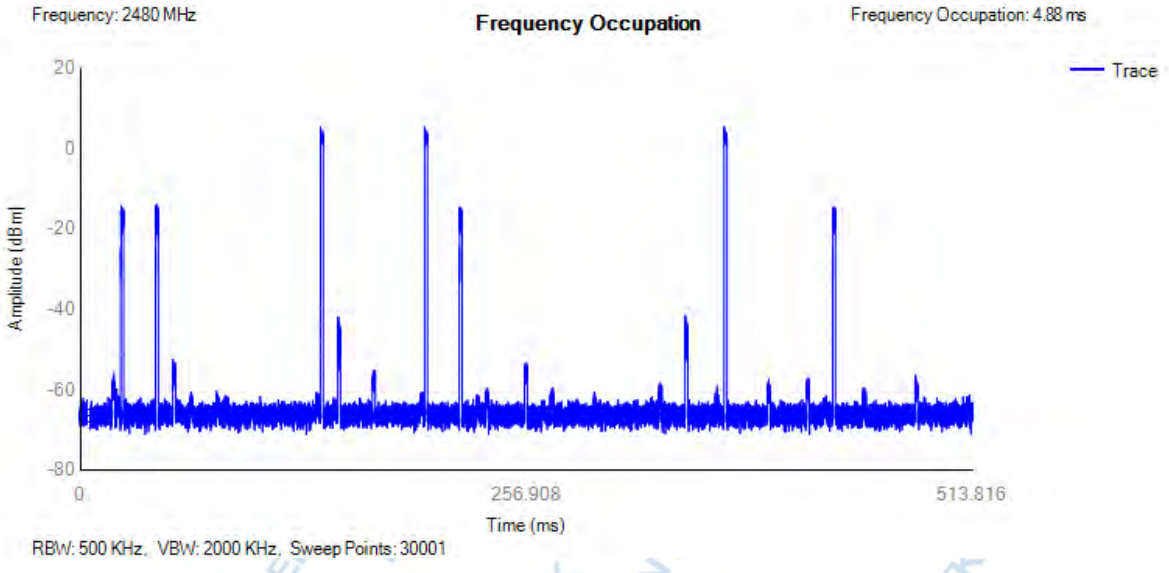
Freq. Occup. NVNT 2-DH1 2480MHz



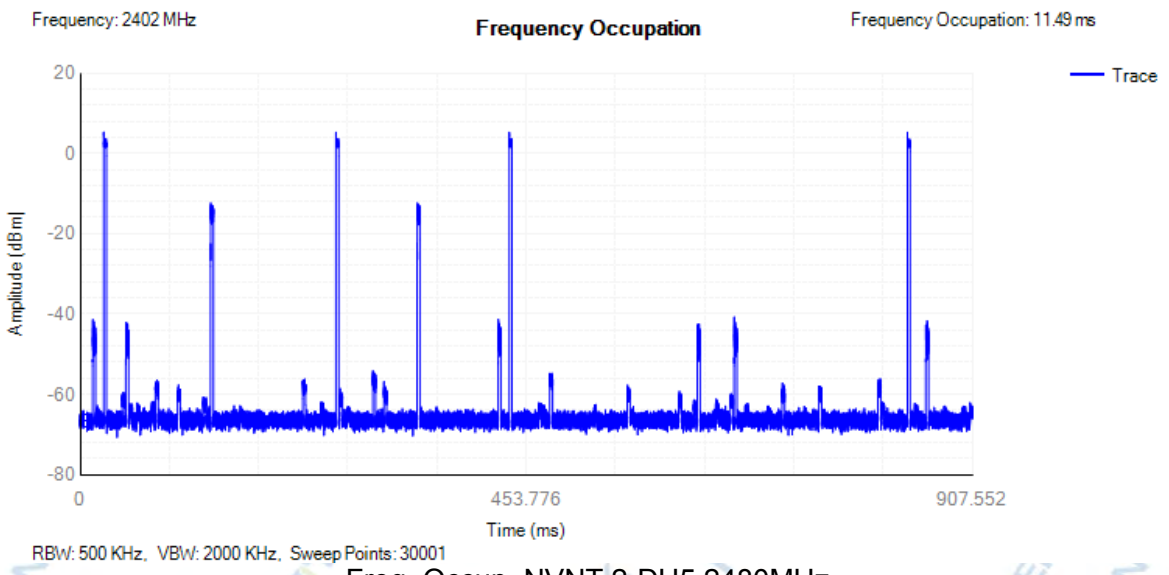

Freq. Occup. NVNT 2-DH3 2402MHz



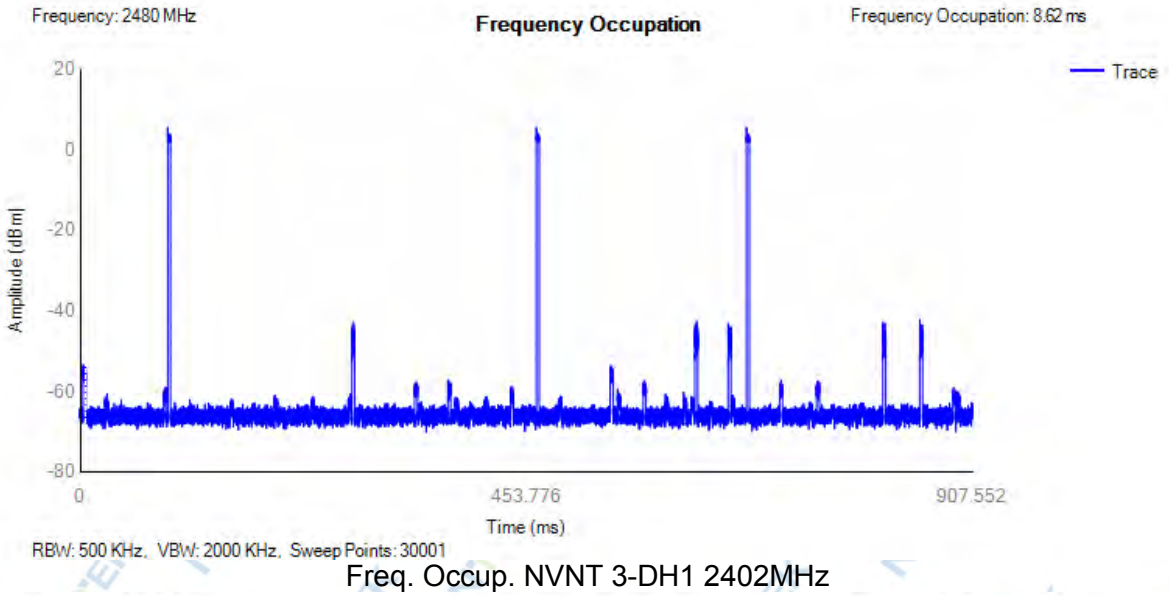

Freq. Occup. NVNT 2-DH3 2480MHz



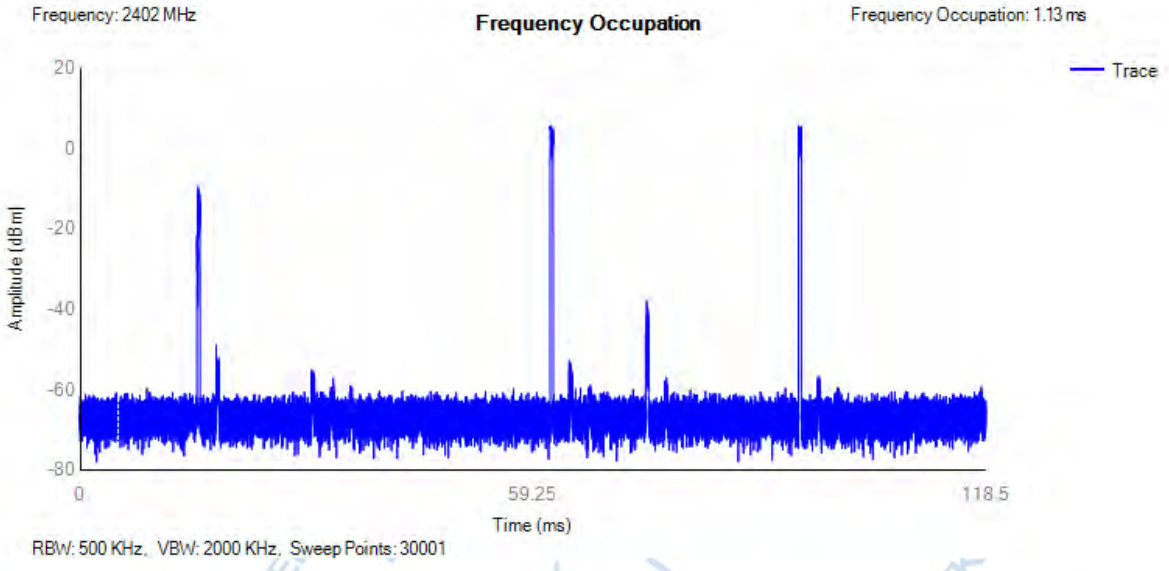
Freq. Occup. NVNT 2-DH5 2402MHz



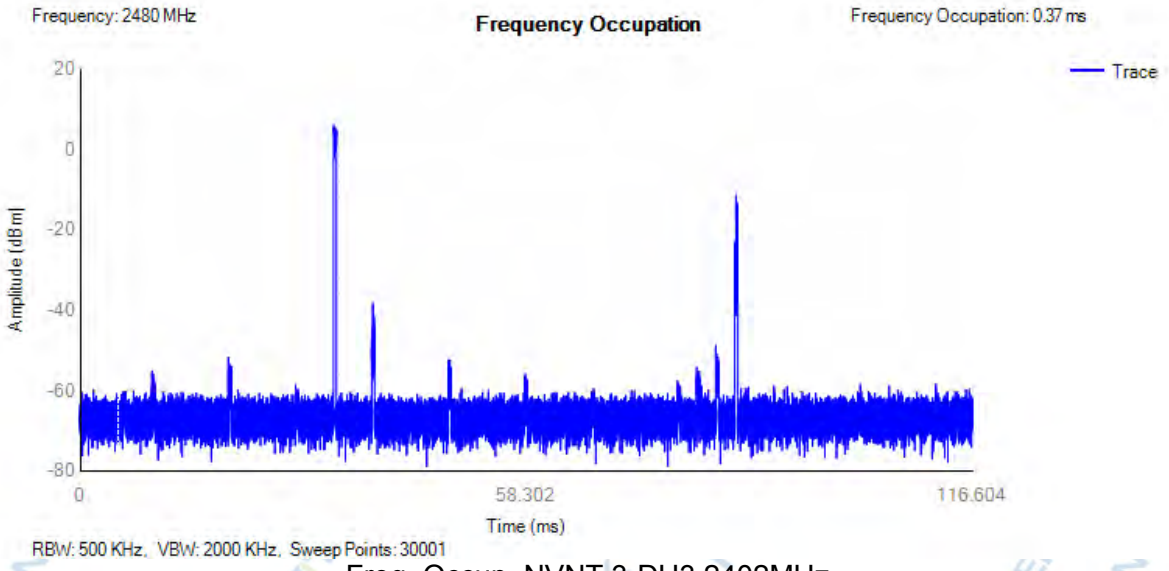

Freq. Occup. NVNT 2-DH5 2480MHz



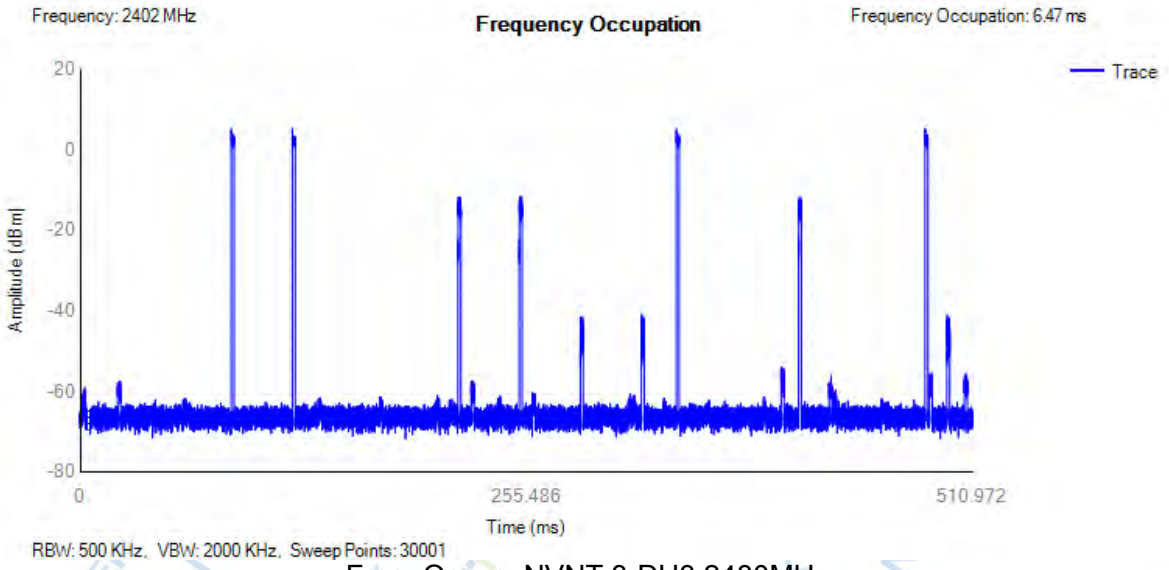

Freq. Occup. NVNT 3-DH1 2402MHz



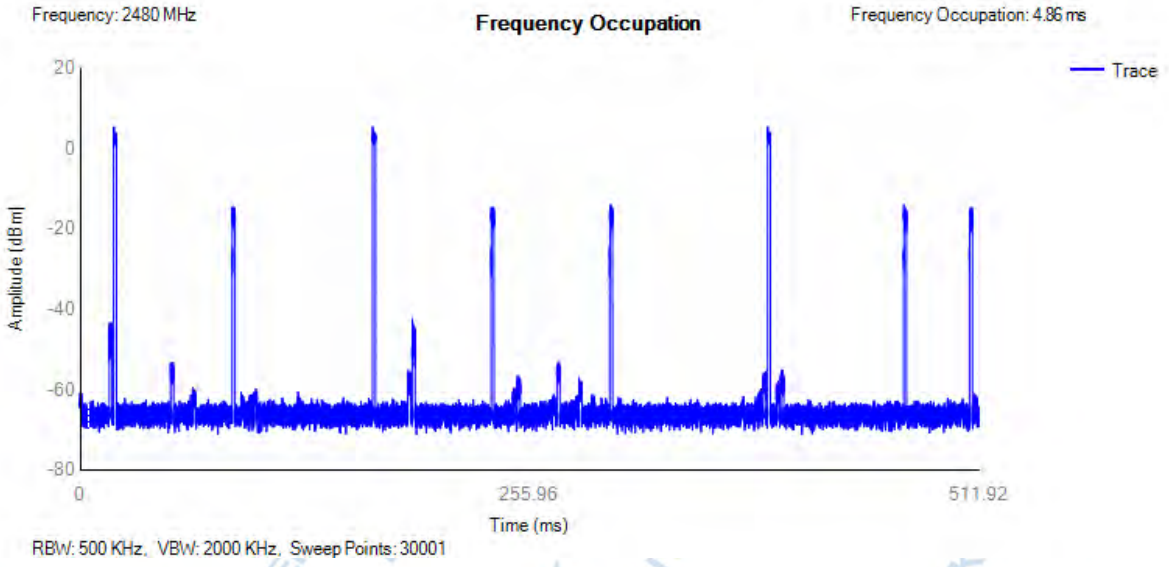
Freq. Occup. NVNT 3-DH1 2480MHz



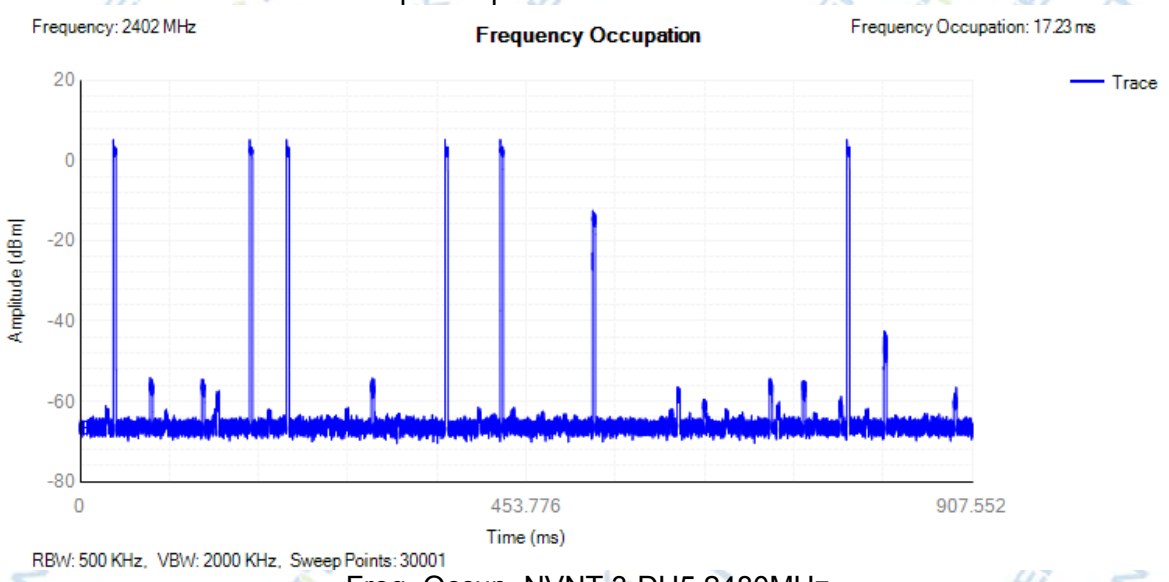

Freq. Occup. NVNT 3-DH3 2402MHz



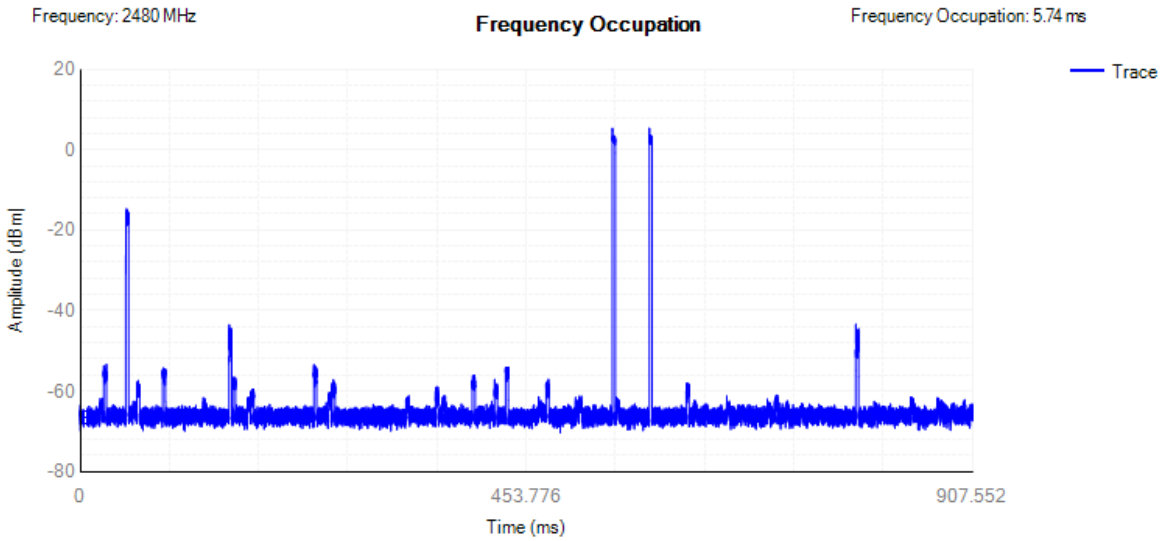

Freq. Occup. NVNT 3-DH3 2480MHz



Freq. Occup. NVNT 3-DH5 2402MHz



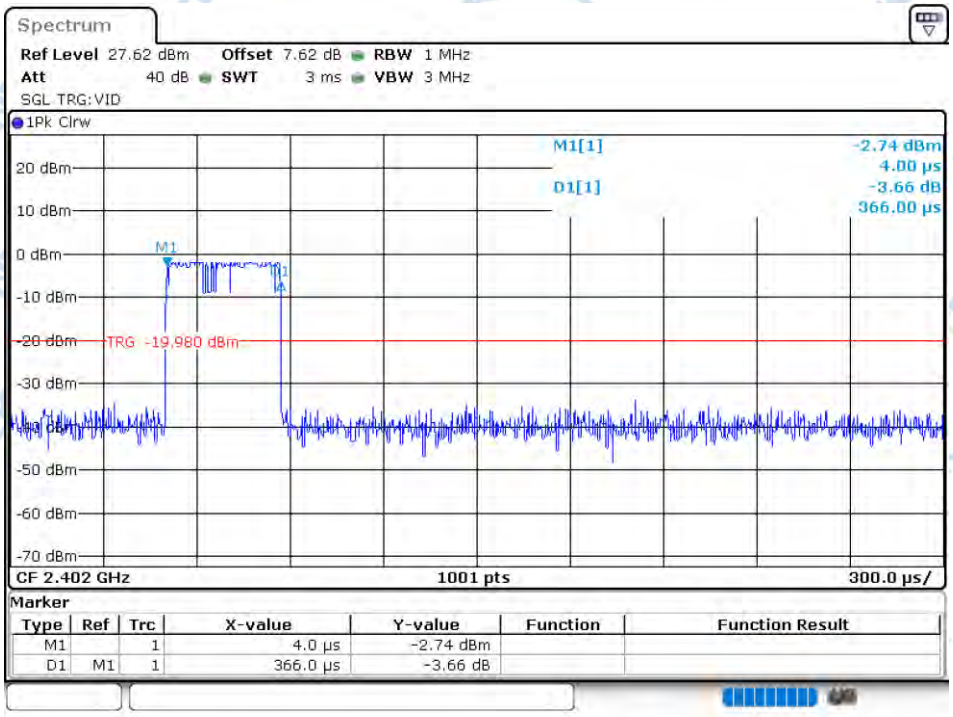

Freq. Occup. NVNT 3-DH5 2480MHz



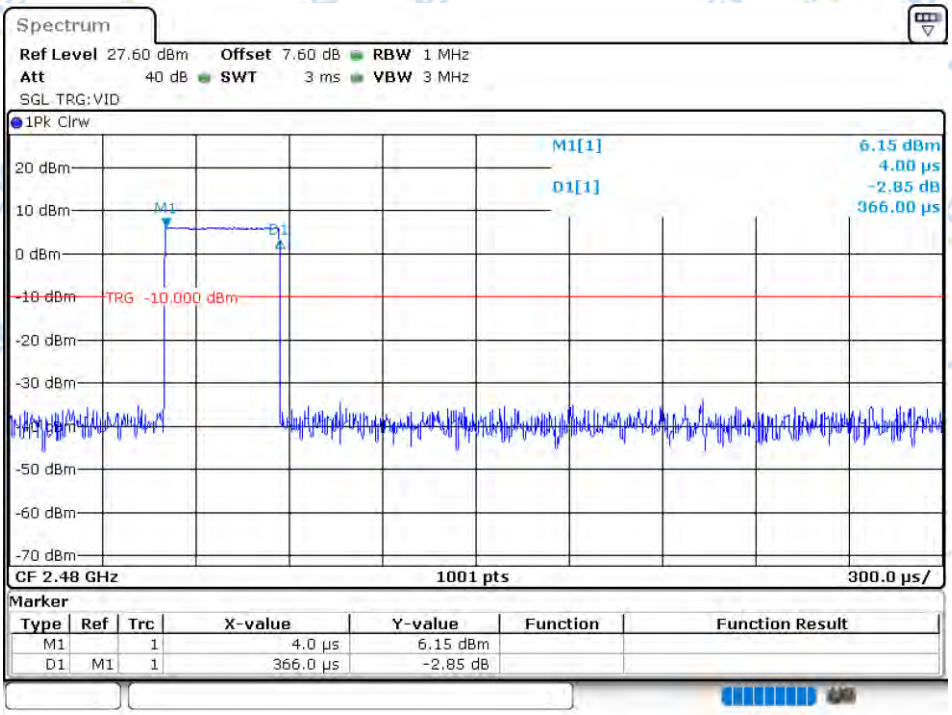
## 11.3 ONE PULSE DWELL TIME

| Condition | Mode | Frequency (MHz) | Pulse Time (ms) |
|---|---|---|---|
| NVNT | 1-DH1 | 2402 | 0.366 |
| NVNT | 1-DH1 | 2480 | 0.366 |
| NVNT | 1-DH3 | 2402 | 1.623 |
| NVNT | 1-DH3 | 2480 | 1.623 |
| NVNT | 1-DH5 | 2402 | 2.864 |
| NVNT | 1-DH5 | 2480 | 2.864 |
| NVNT | 2-DH1 | 2402 | 0.369 |
| NVNT | 2-DH1 | 2480 | 0.375 |
| NVNT | 2-DH3 | 2402 | 1.623 |
| NVNT | 2-DH3 | 2480 | 1.626 |
| NVNT | 2-DH5 | 2402 | 2.872 |
| NVNT | 2-DH5 | 2480 | 2.872 |
| NVNT | 3-DH1 | 2402 | 0.375 |
| NVNT | 3-DH1 | 2480 | 0.369 |
| NVNT | 3-DH3 | 2402 | 1.617 |
| NVNT | 3-DH3 | 2480 | 1.62 |
| NVNT | 3-DH5 | 2402 | 2.872 |
| NVNT | 3-DH5 | 2480 | 2.872 |

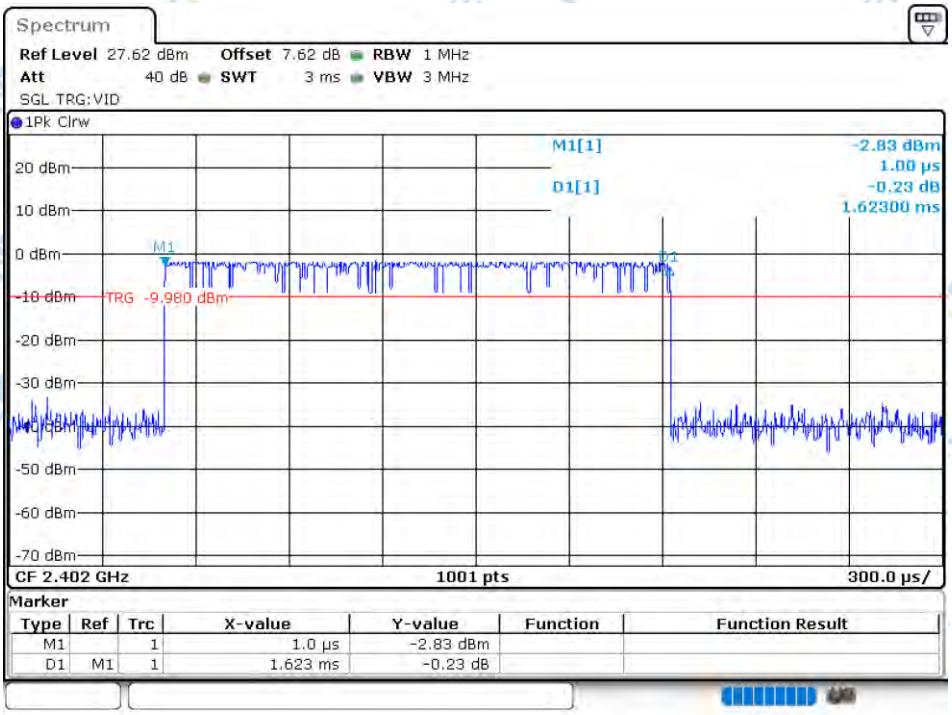
One Pulse NVNT 1-DH1 2402MHz



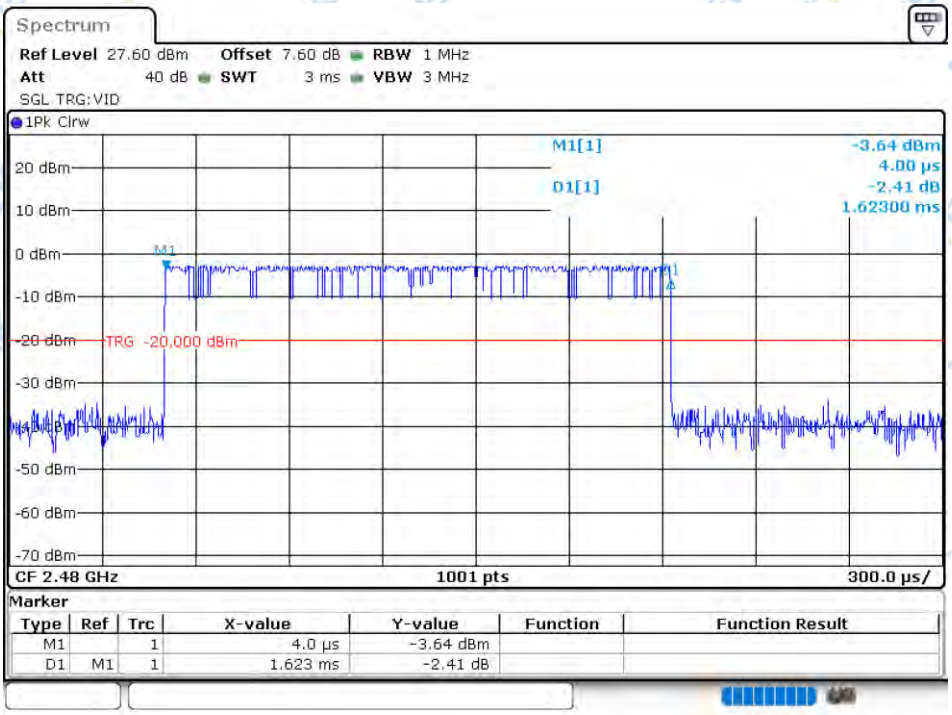
One Pulse NVNT 1-DH1 2480MHz



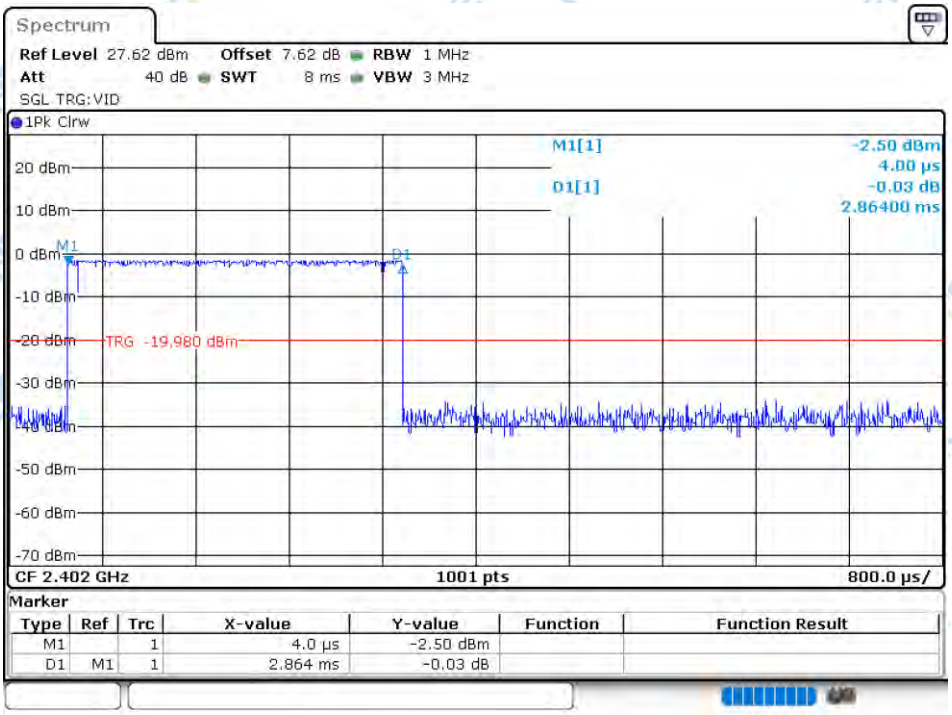

One Pulse NVNT 1-DH3 2402MHz



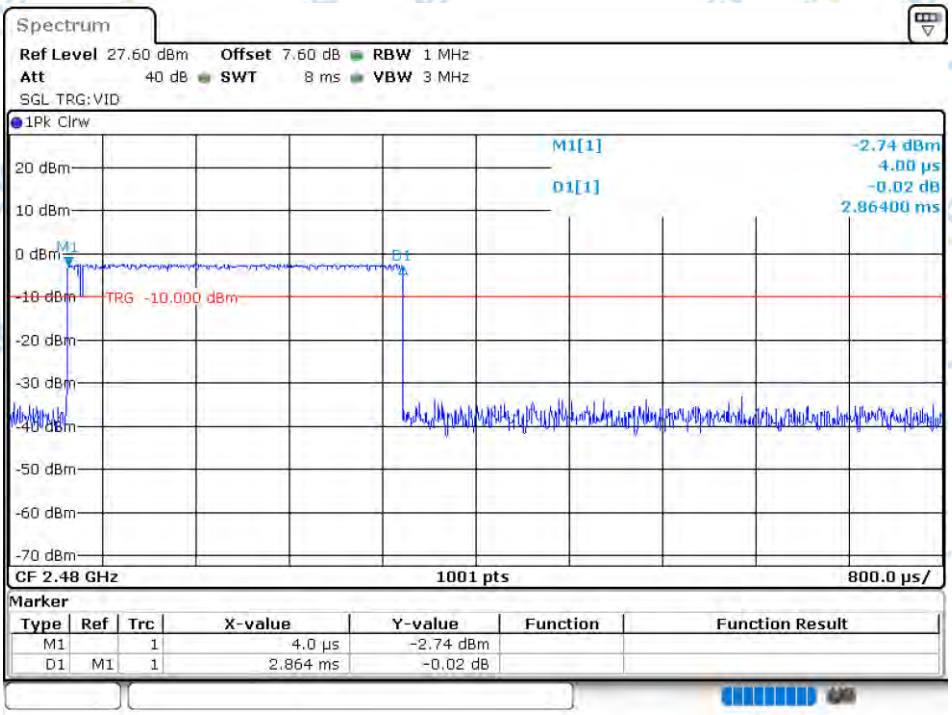
One Pulse NVNT 1-DH3 2480MHz



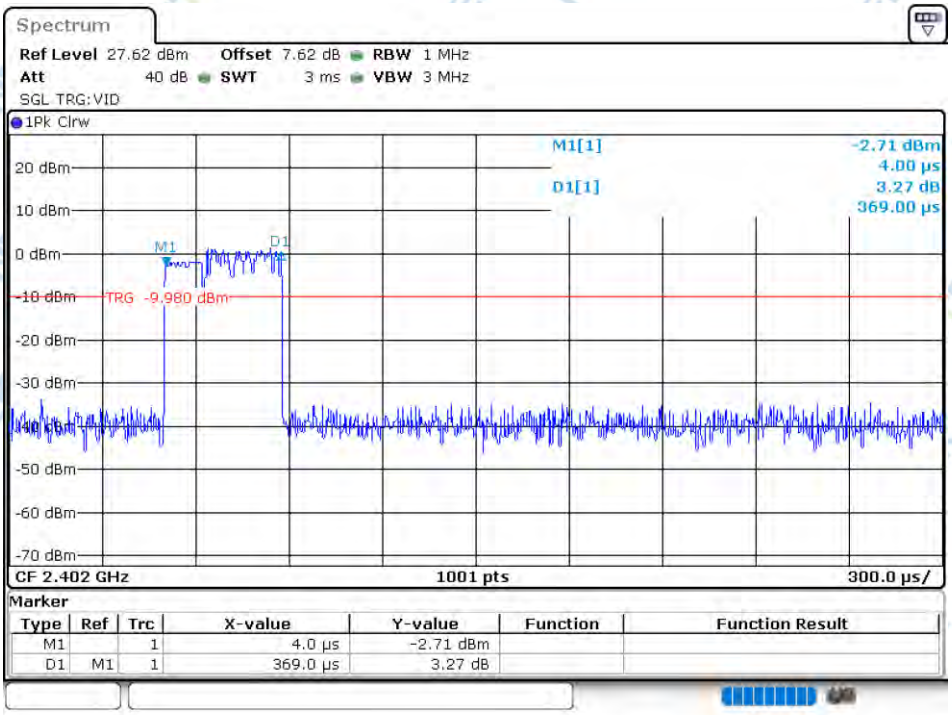

One Pulse NVNT 1-DH5 2402MHz



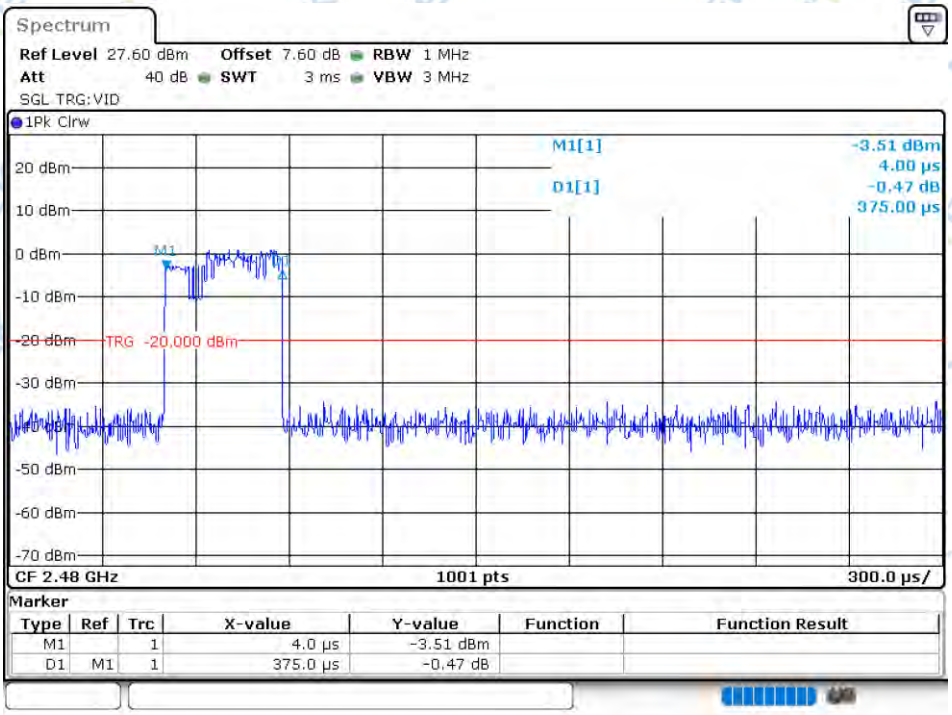
One Pulse NVNT 1-DH5 2480MHz



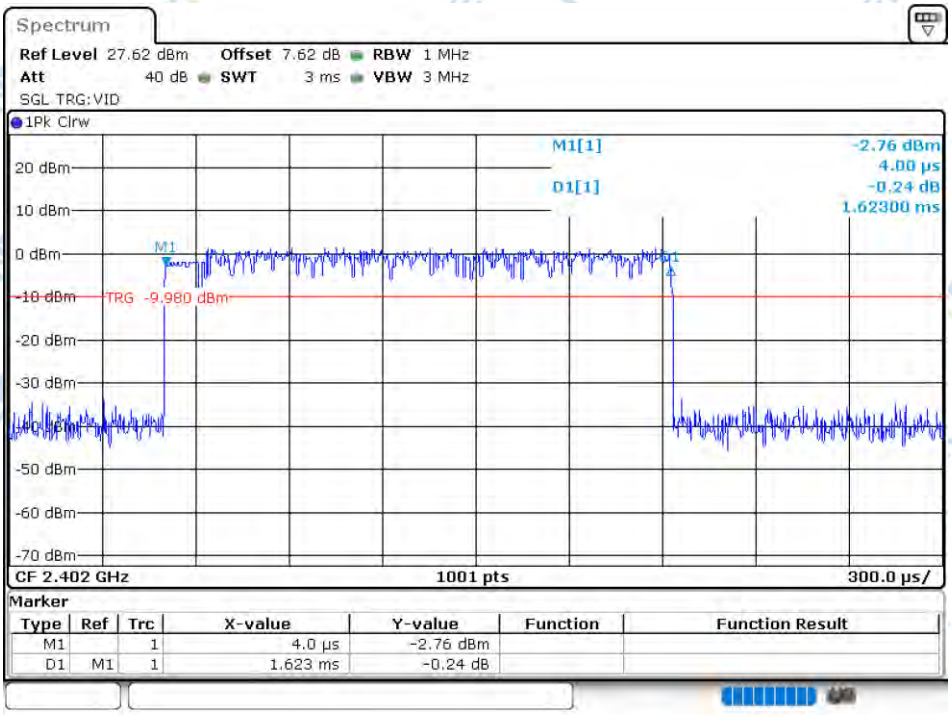

One Pulse NVNT 2-DH1 2402MHz



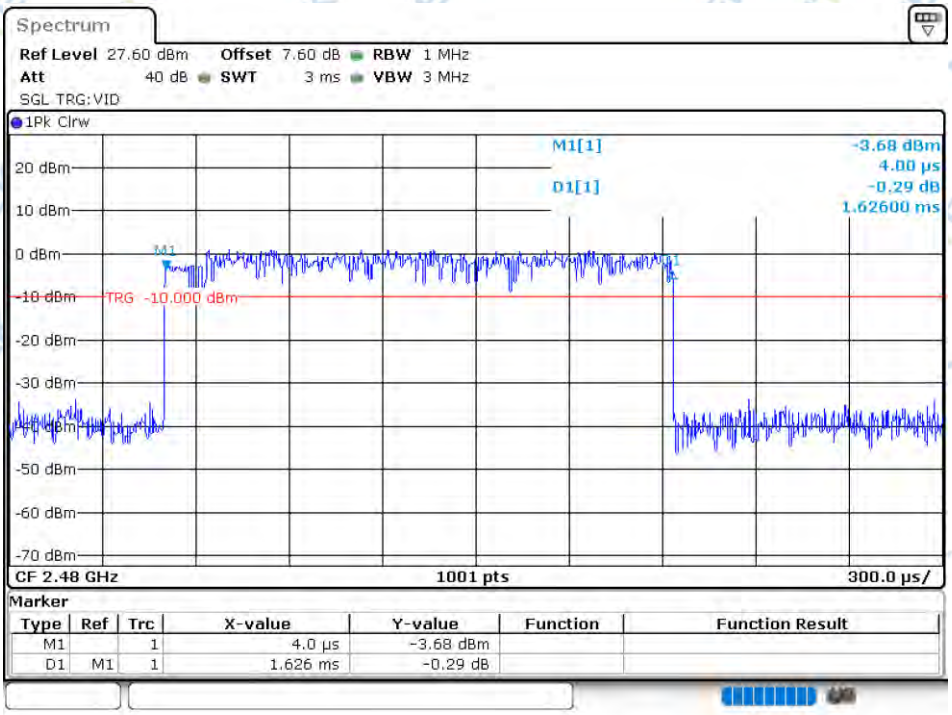
One Pulse NVNT 2-DH1 2480MHz



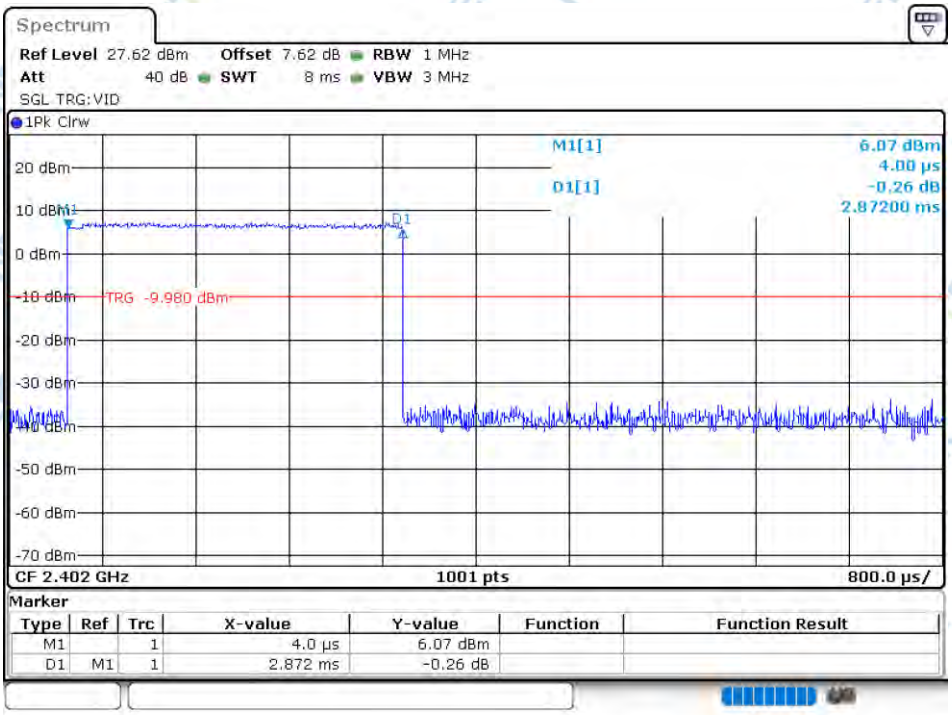

One Pulse NVNT 2-DH3 2402MHz



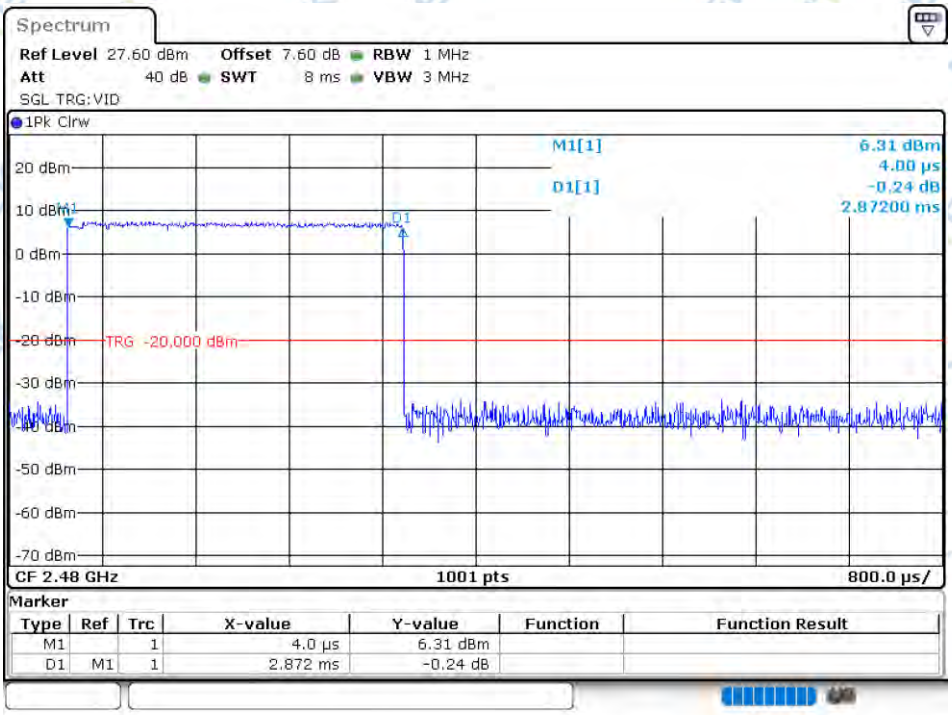
One Pulse NVNT 2-DH3 2480MHz



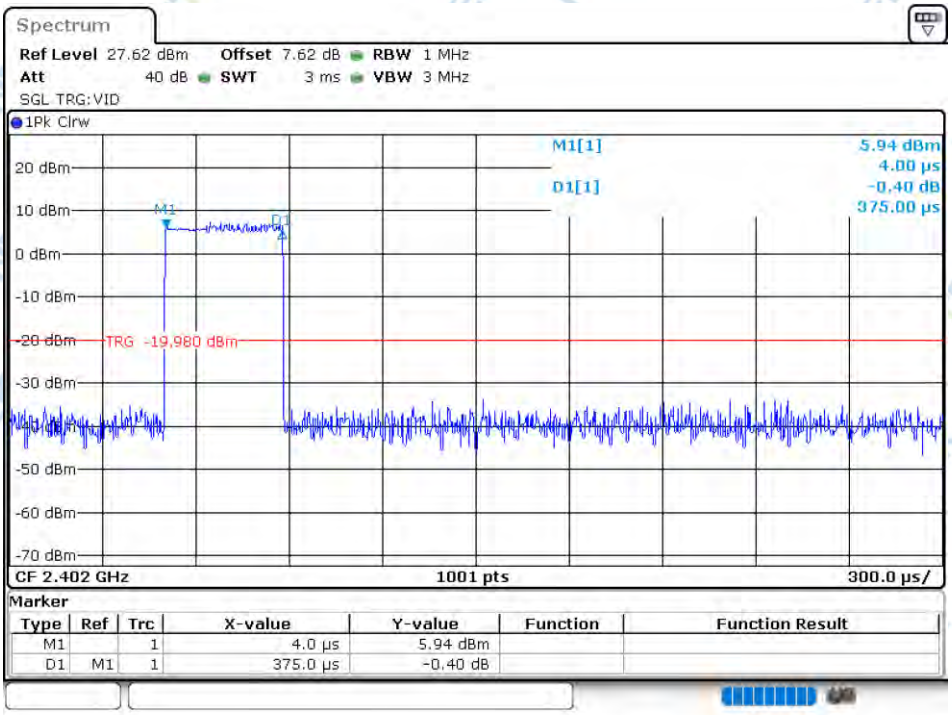

One Pulse NVNT 2-DH5 2402MHz



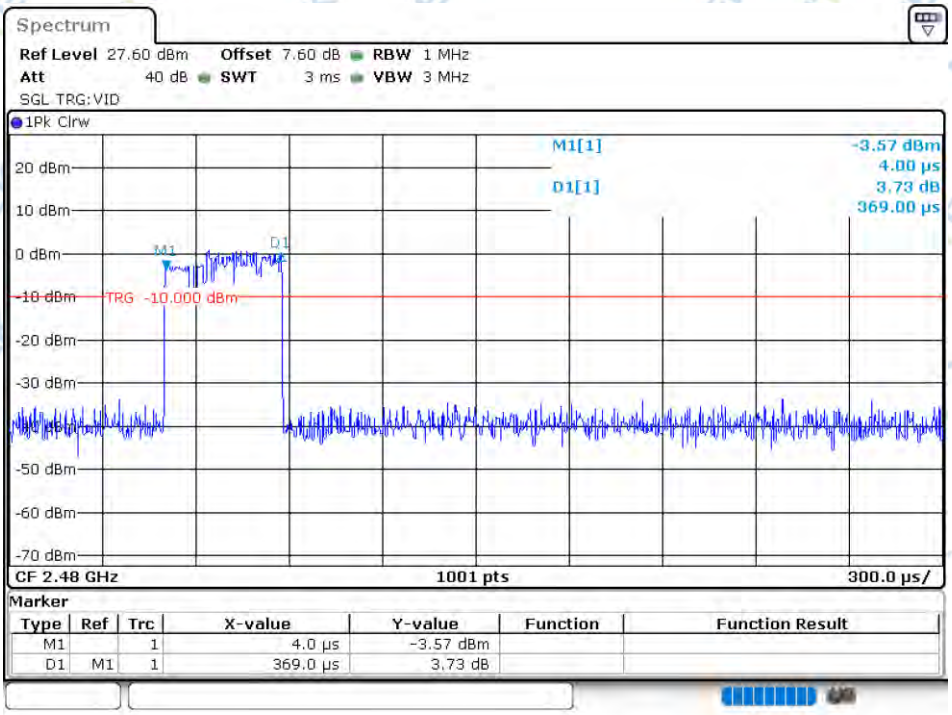
One Pulse NVNT 2-DH5 2480MHz



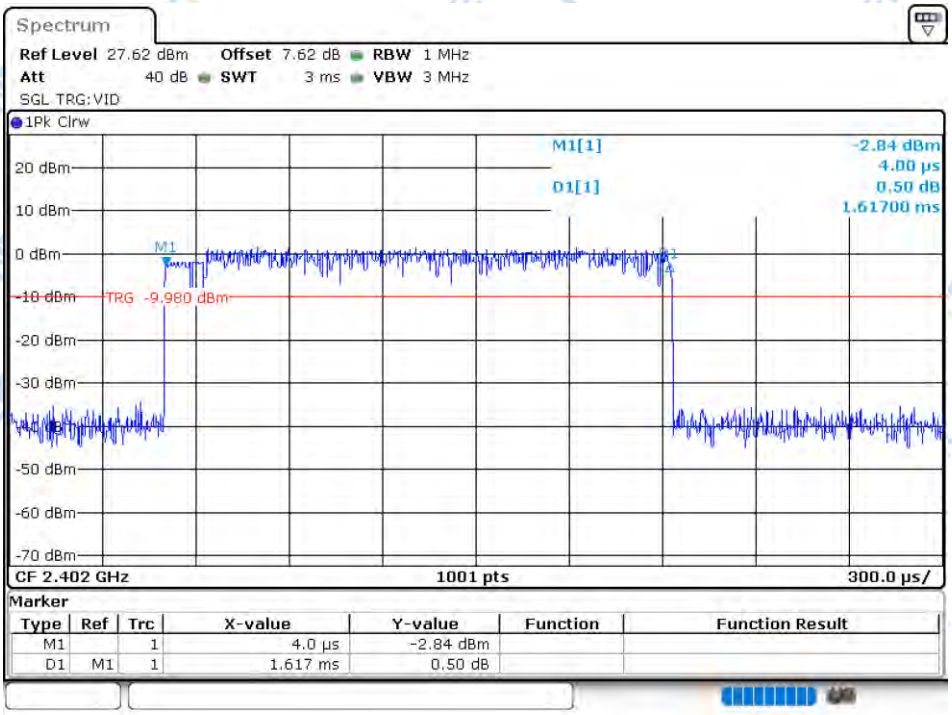

One Pulse NVNT 3-DH1 2402MHz



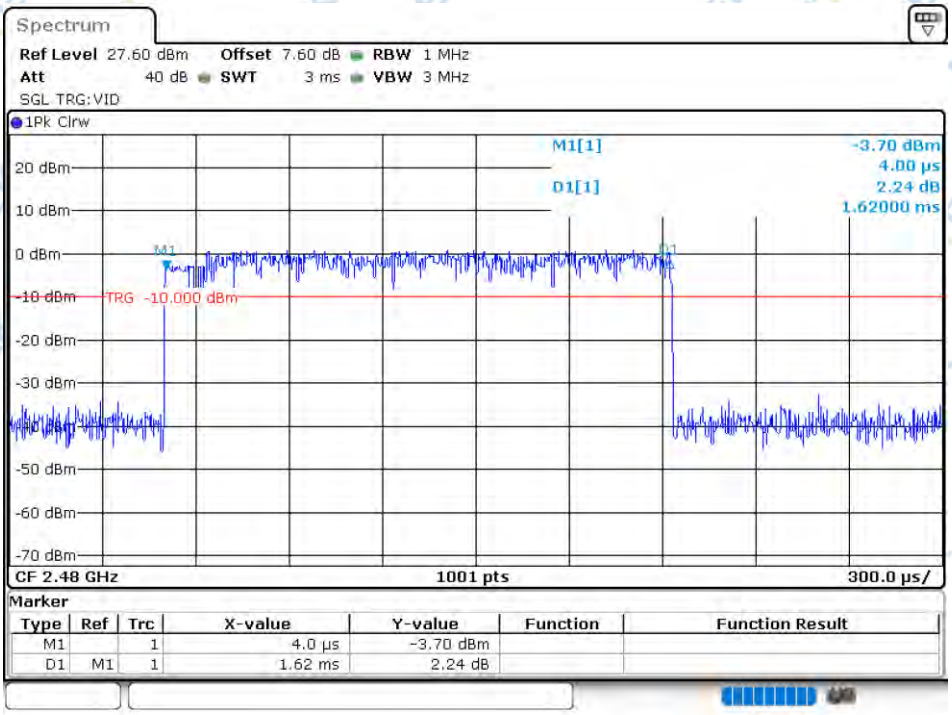
One Pulse NVNT 3-DH1 2480MHz



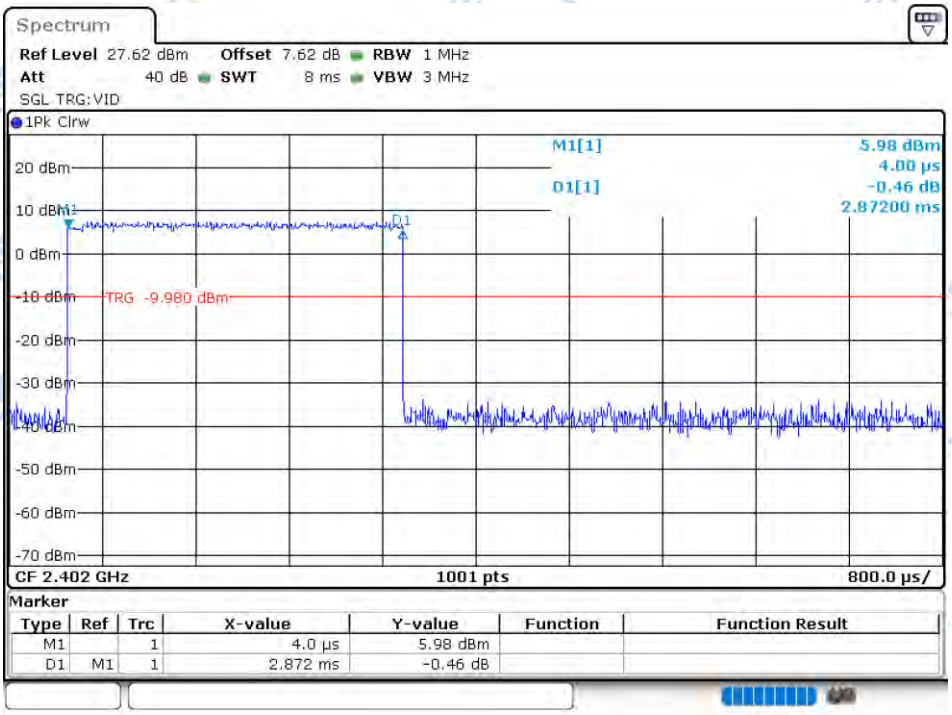

One Pulse NVNT 3-DH3 2402MHz



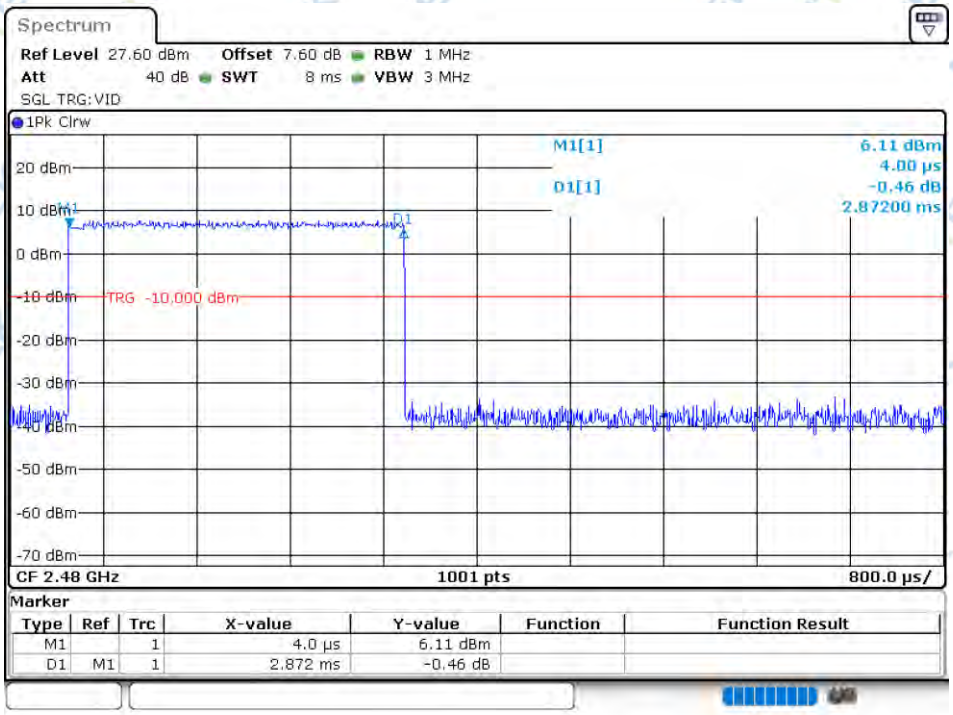
One Pulse NVNT 3-DH3 2480MHz




One Pulse NVNT 3-DH5 2402MHz



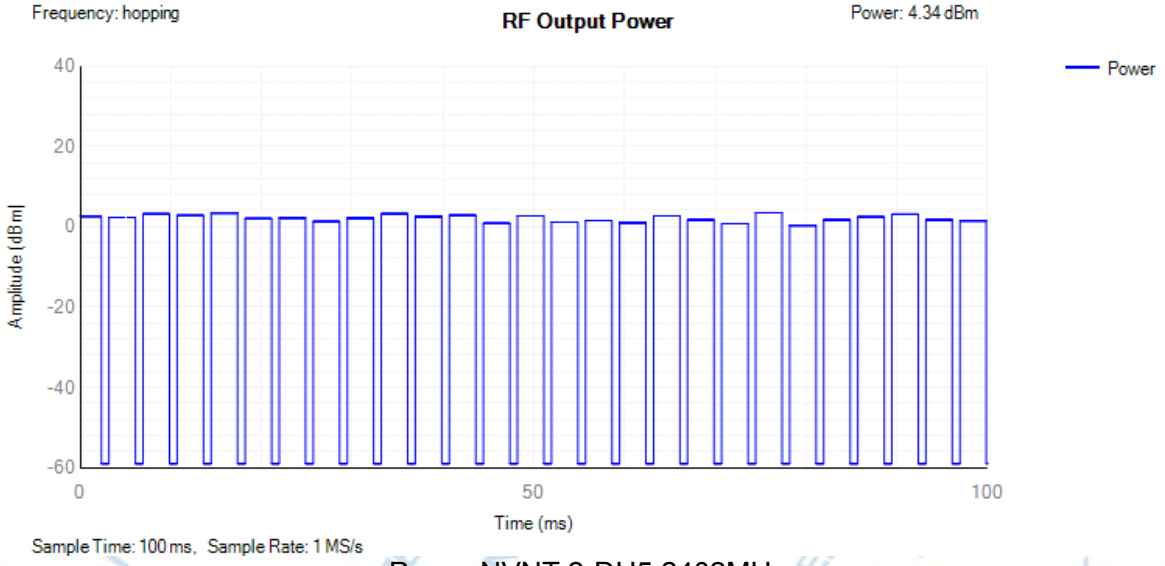
One Pulse NVNT 3-DH5 2480MHz



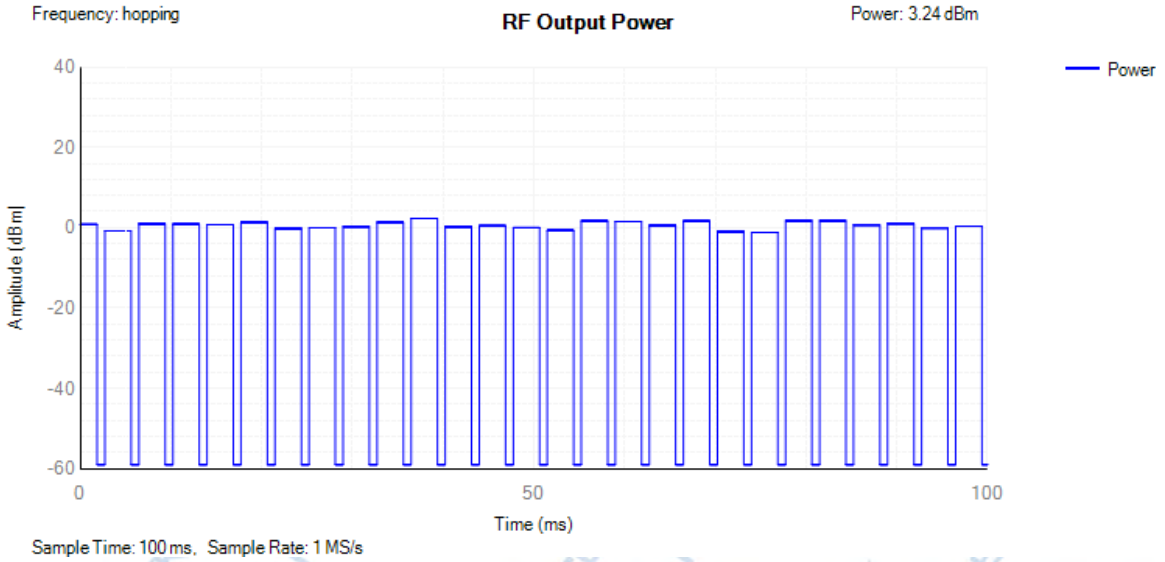
**11.4 RF OUTPUT POWER**

| Condition | Mode | Frequency (MHz) | Max Burst RMS Power (dBm) | Burst Number | Max EIRP (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | hopping | 3.42 | 27 | 4.34 | 20 | Pass |
| NVNT | 2-DH5 | hopping | 2.32 | 27 | 3.24 | 20 | Pass |
| NVNT | 3-DH5 | hopping | 2.11 | 28 | 3.03 | 20 | Pass |
| NVLT | 1-DH5 | hopping | 2.74 | 27 | 3.66 | 20 | Pass |
| NVLT | 2-DH5 | hopping | 1.73 | 27 | 2.65 | 20 | Pass |
| NVLT | 3-DH5 | hopping | 1.54 | 28 | 2.46 | 20 | Pass |
| NVHT | 1-DH5 | hopping | 2.71 | 27 | 3.63 | 20 | Pass |
| NVHT | 2-DH5 | hopping | 1.63 | 27 | 2.55 | 20 | Pass |
| NVHT | 3-DH5 | hopping | 1.34 | 28 | 2.26 | 20 | Pass |

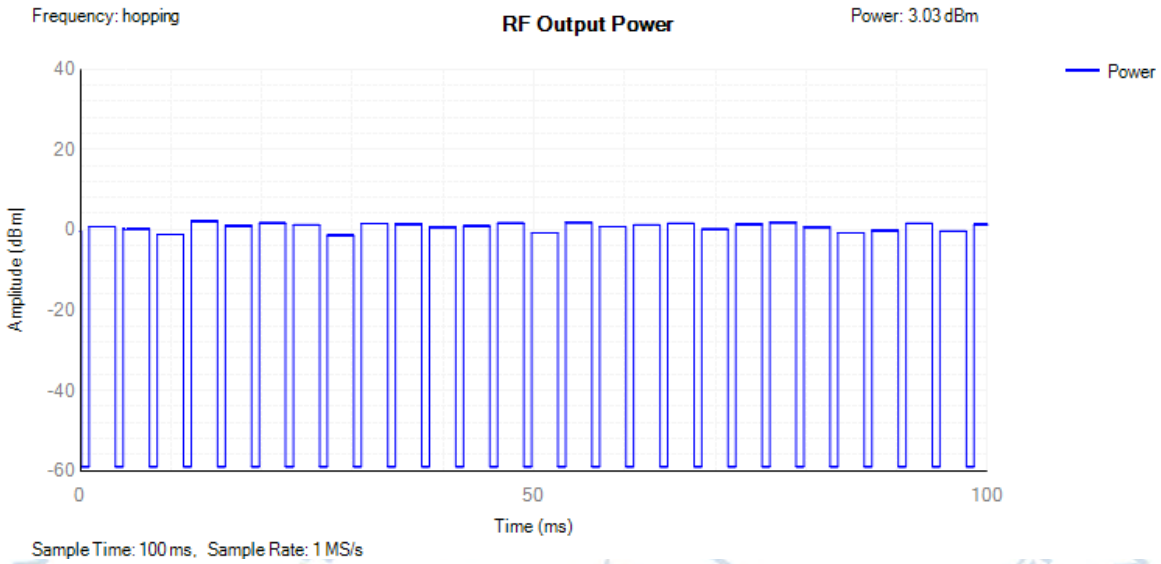
Power NVNT 1-DH5 2402MHz




Power NVNT 2-DH5 2402MHz



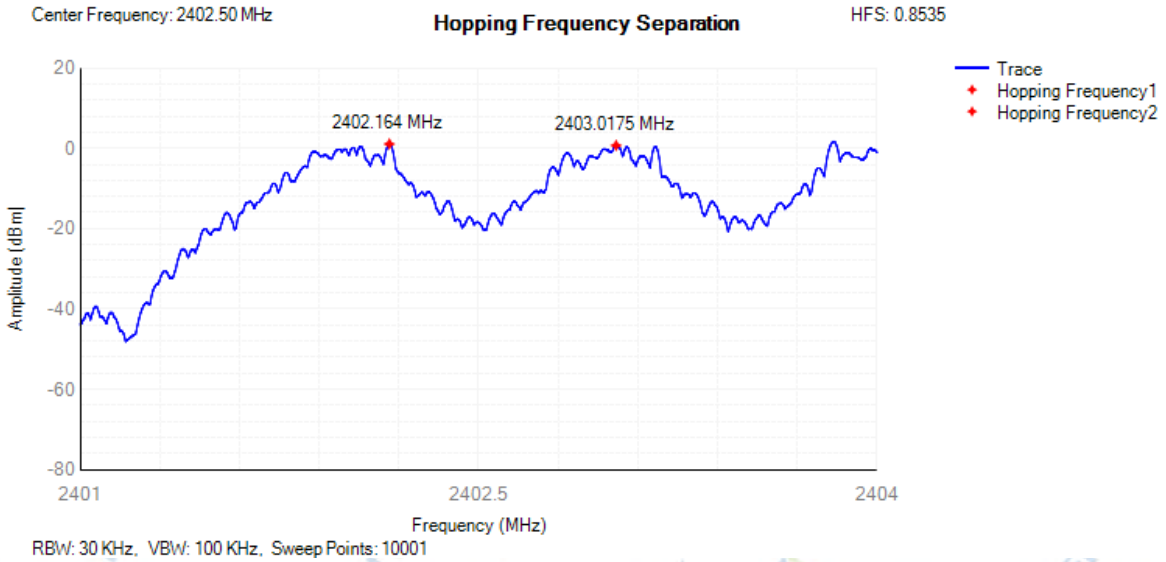
Power NVNT 3-DH5 2402MHz



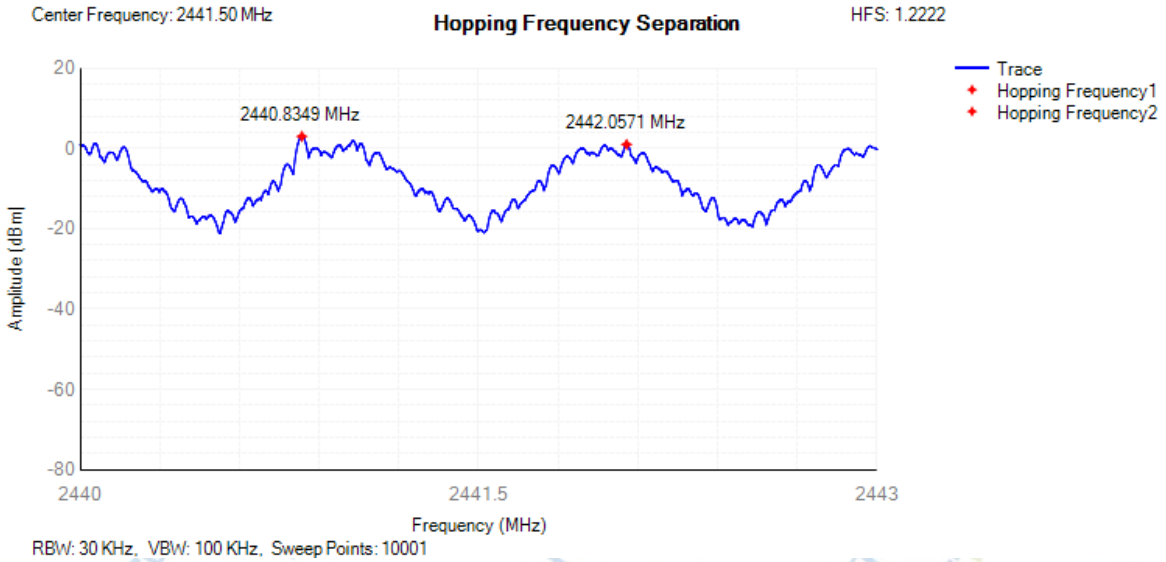
## 11.5 HOPPING FREQUENCY SEPARATION

| Condition | Mode | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402.164 | 2403.0175 | 0.8535 | 0.1 | Pass |
| NVNT | 1-DH5 | 2440.8349 | 2442.0571 | 1.2222 | 0.1 | Pass |
| NVNT | 1-DH5 | 2479.0557 | 2480.058 | 1.0023 | 0.1 | Pass |
| NVNT | 2-DH5 | 2402.1637 | 2403.0247 | 0.861 | 0.1 | Pass |
| NVNT | 2-DH5 | 2441.026 | 2442.0265 | 1.0005 | 0.1 | Pass |
| NVNT | 2-DH5 | 2479.1631 | 2480.0097 | 0.8466 | 0.1 | Pass |
| NVNT | 3-DH5 | 2402.0098 | 2403.1633 | 1.1535 | 0.1 | Pass |
| NVNT | 3-DH5 | 2441.167 | 2442.1645 | 0.9975 | 0.1 | Pass |
| NVNT | 3-DH5 | 2479.0131 | 2480.0262 | 1.0131 | 0.1 | Pass |

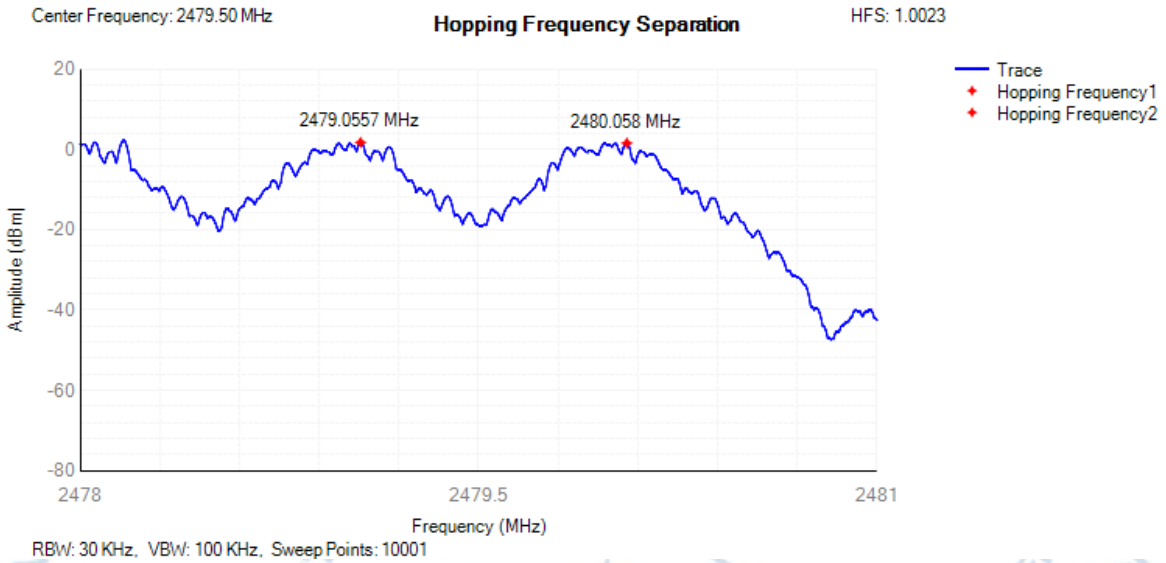
HFS NVNT 1-DH5 2402MHz



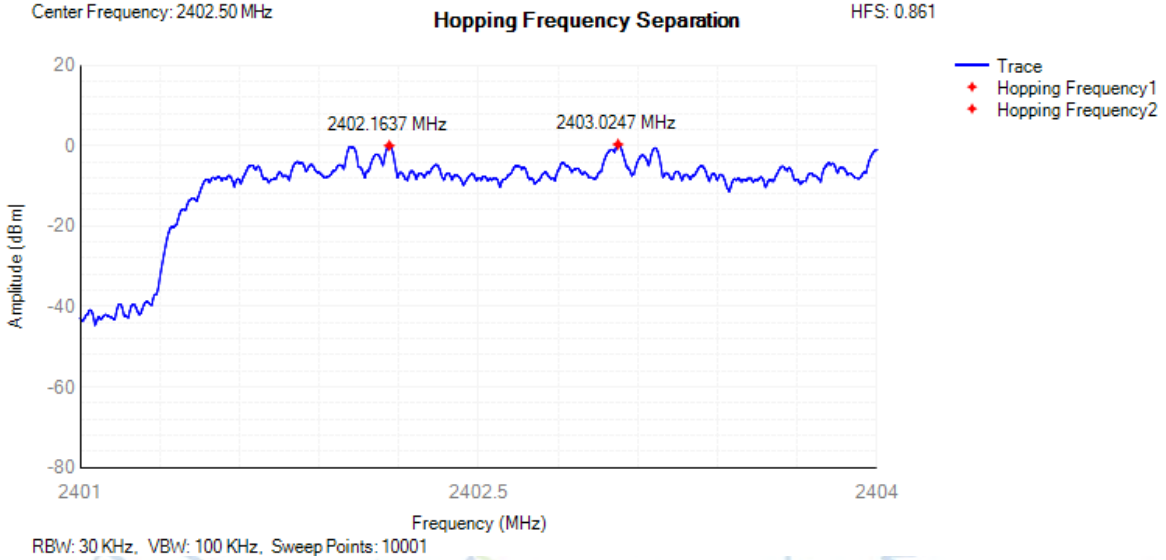

HFS NVNT 1-DH5 2441MHz



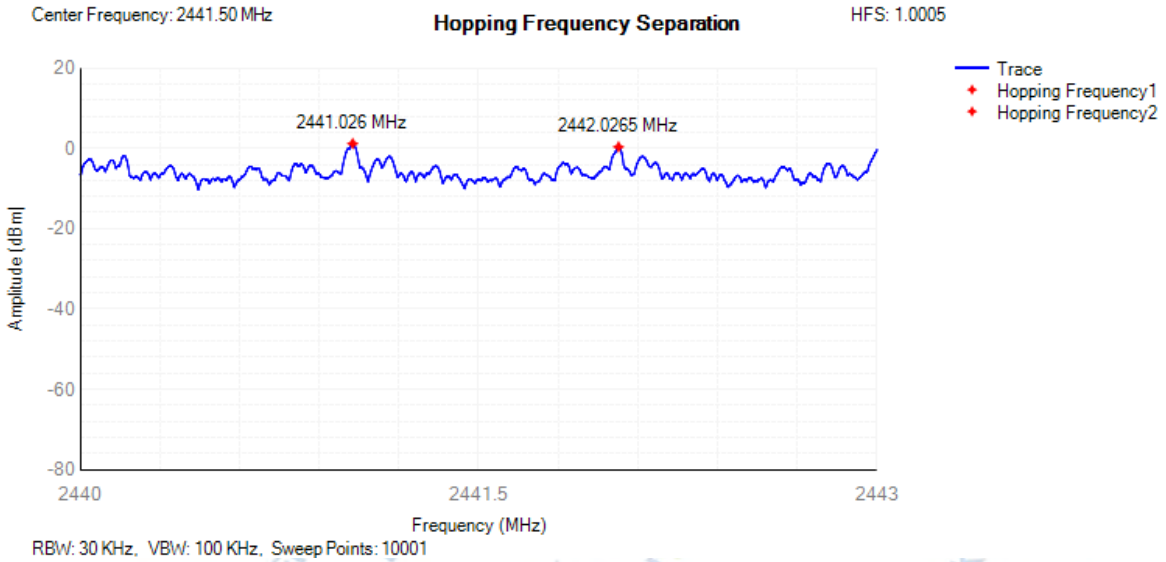
HFS NVNT 1-DH5 2480MHz



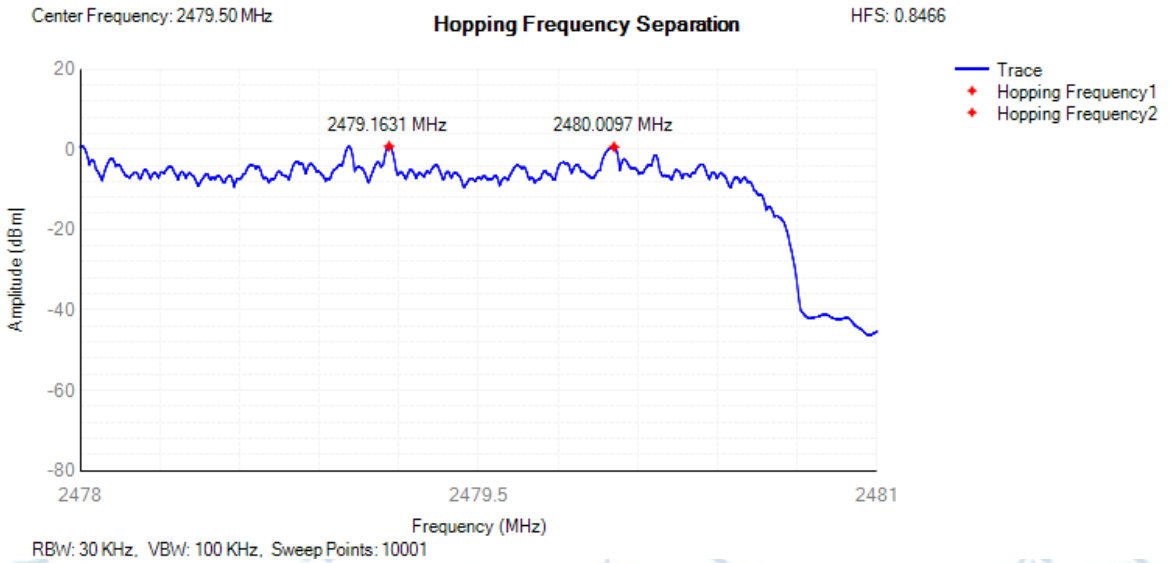

HFS NVNT 2-DH5 2402MHz



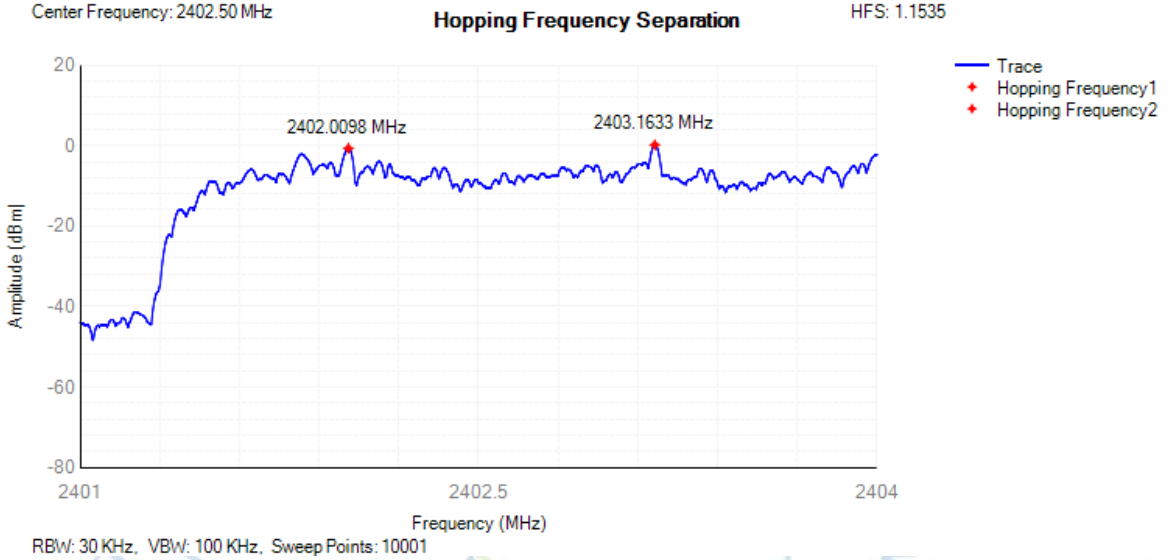

HFS NVNT 2-DH5 2441MHz



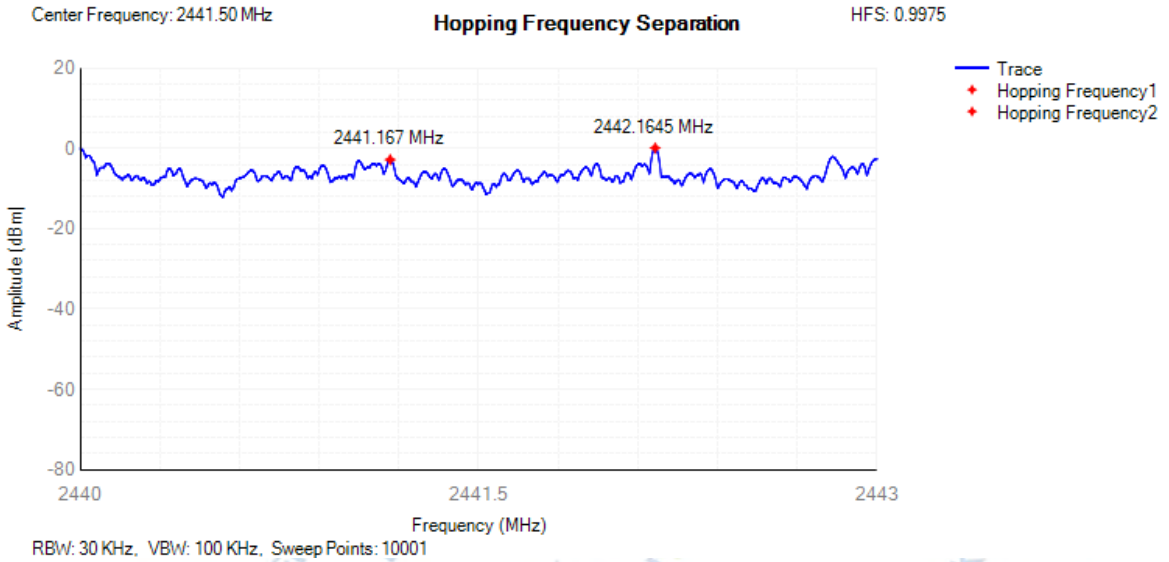
HFS NVNT 2-DH5 2480MHz



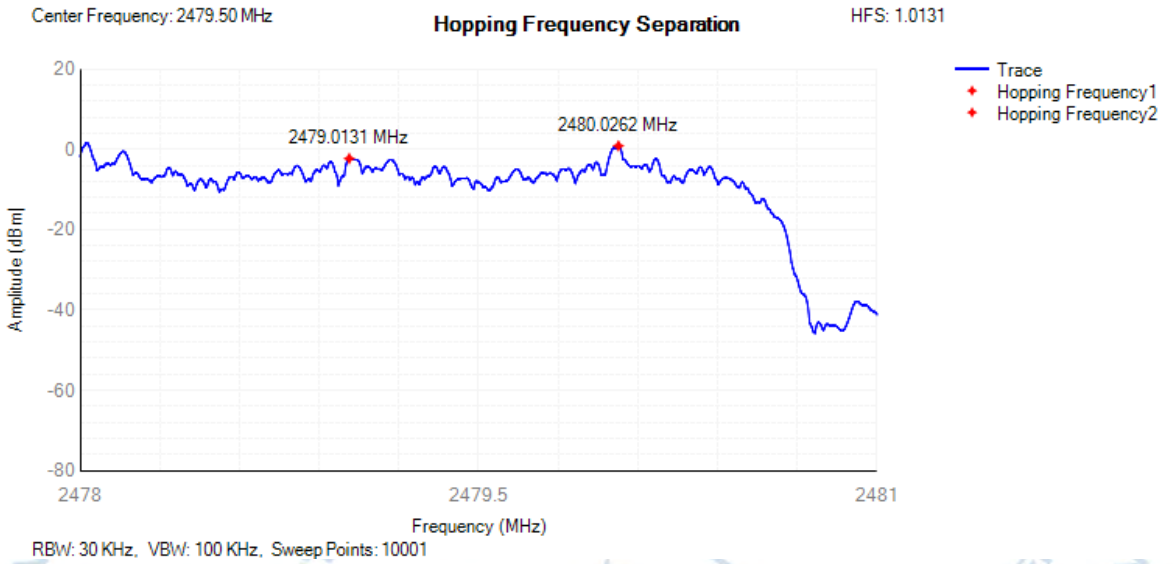

HFS NVNT 3-DH5 2402MHz




HFS NVNT 3-DH5 2441MHz



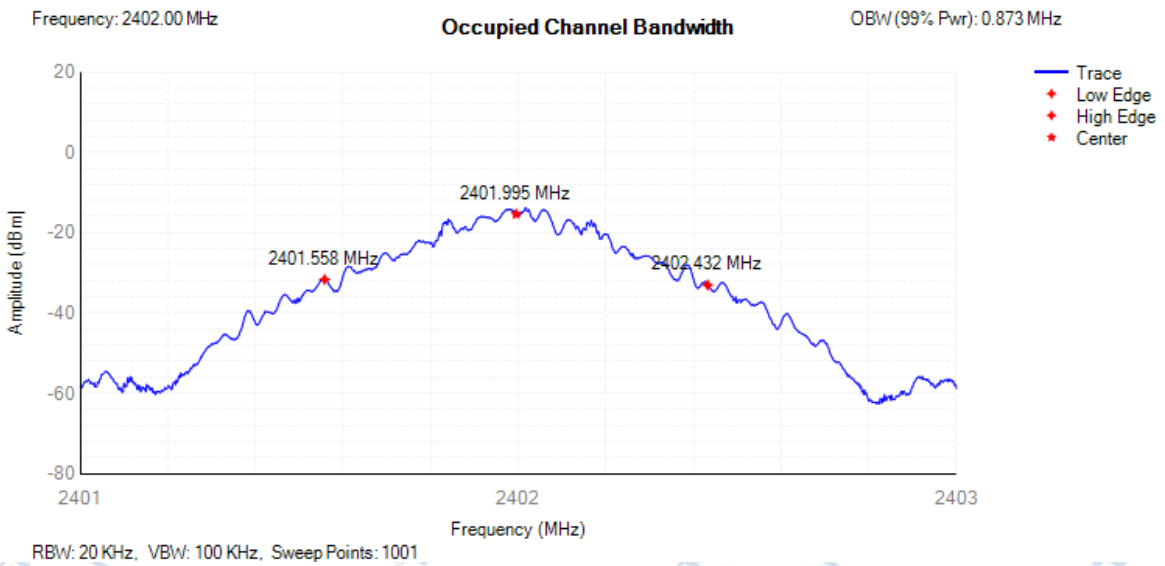
HFS NVNT 3-DH5 2480MHz



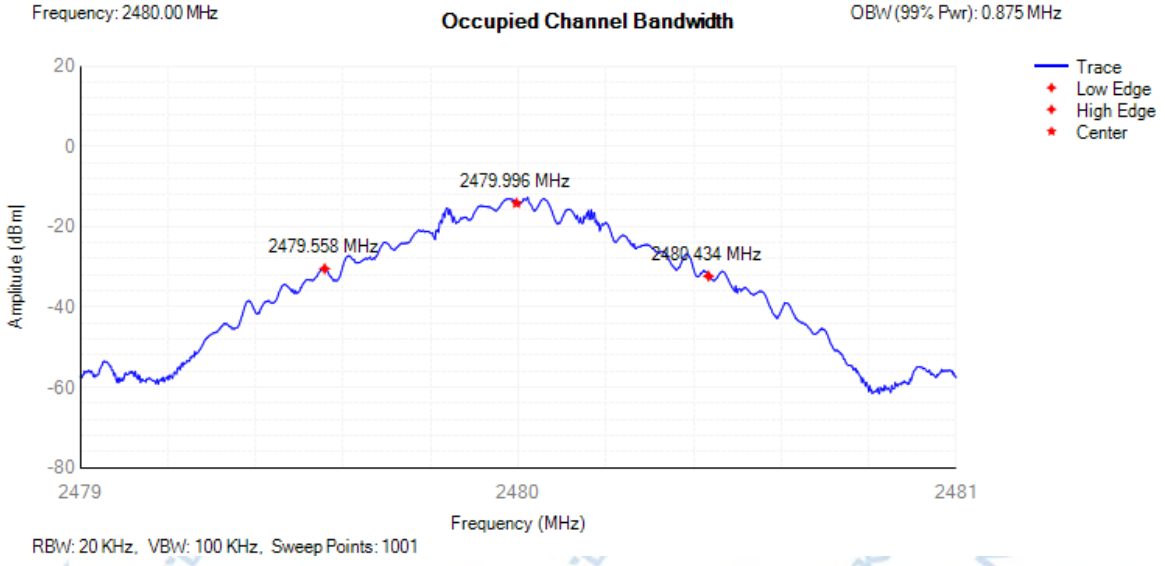
## 11.6 OCCUPIED CHANNEL BANDWIDTH

| Condition | Mode | Frequency (MHz) | Center Frequency (MHz) | OBW (MHz) | Lower Edge (MHz) | Upper Edge (MHz) | Limit OBW (MHz) | Verdict |
|---|---|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | 2401.995 | 0.873 | 2401.558 | 2402.432 | 2400 - 2483.5MHz | Pass |
| NVNT | 1-DH5 | 2480 | 2479.996 | 0.875 | 2479.558 | 2480.434 | 2400 - 2483.5MHz | Pass |
| NVNT | 2-DH5 | 2402 | 2401.998 | 1.187 | 2401.405 | 2402.591 | 2400 - 2483.5MHz | Pass |
| NVNT | 2-DH5 | 2480 | 2479.997 | 1.177 | 2479.409 | 2480.585 | 2400 - 2483.5MHz | Pass |
| NVNT | 3-DH5 | 2402 | 2401.995 | 1.201 | 2401.395 | 2402.595 | 2400 - 2483.5MHz | Pass |
| NVNT | 3-DH5 | 2480 | 2479.996 | 1.199 | 2479.397 | 2480.595 | 2400 - 2483.5MHz | Pass |

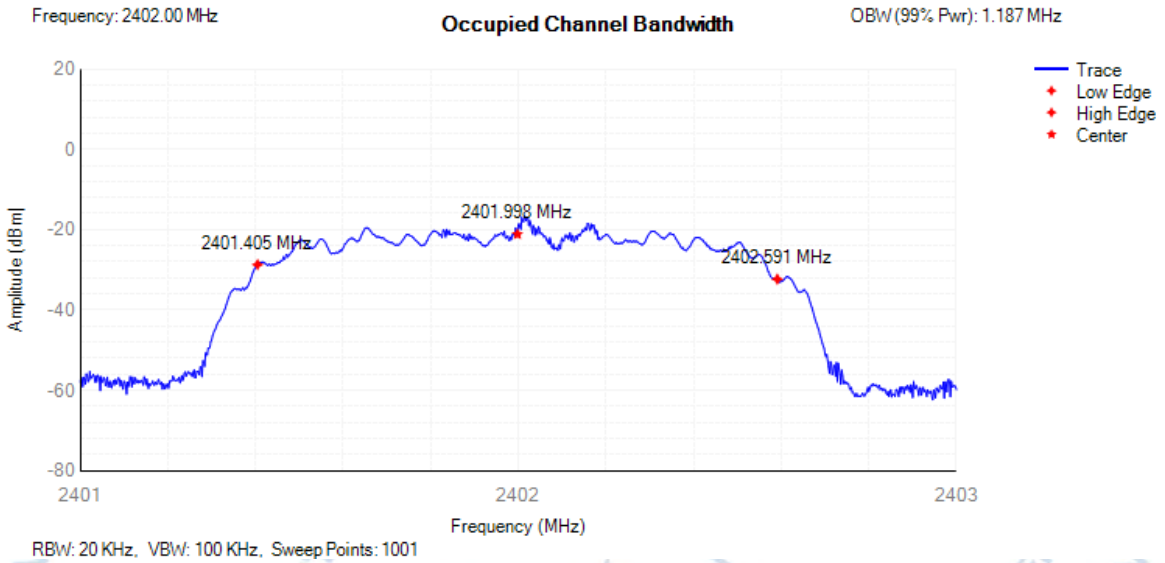
OBW NVNT 1-DH5 2402MHz



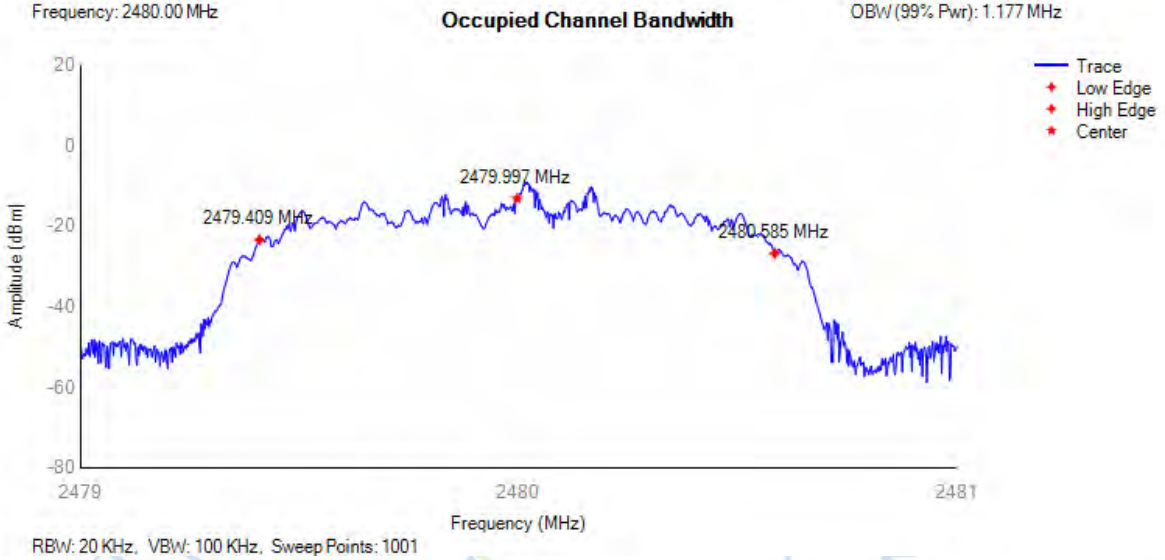

OBW NVNT 1-DH5 2480MHz



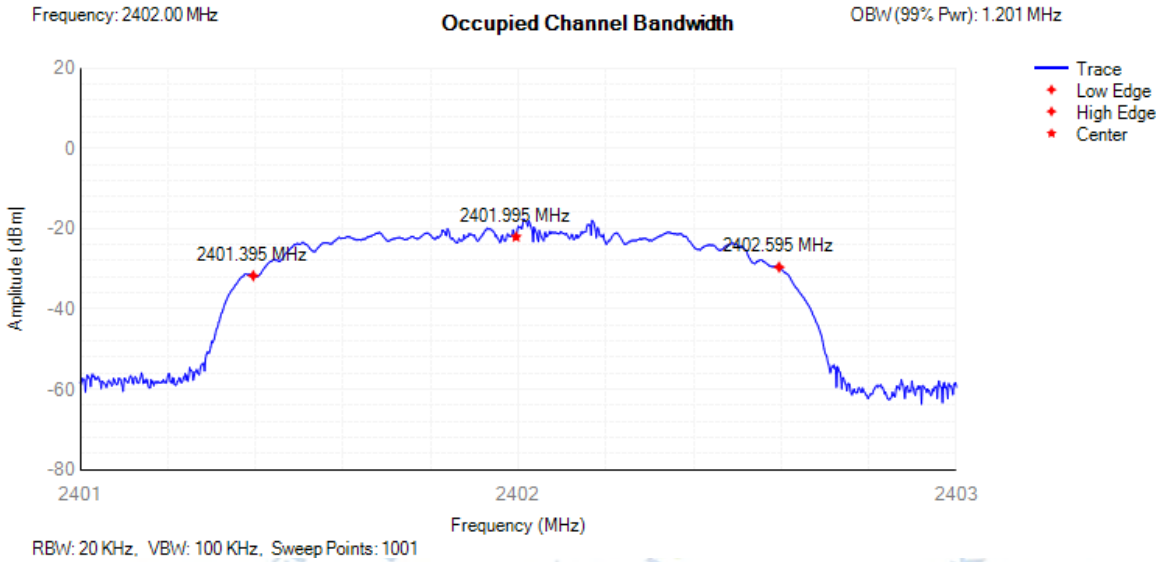
OBW NVNT 2-DH5 2402MHz



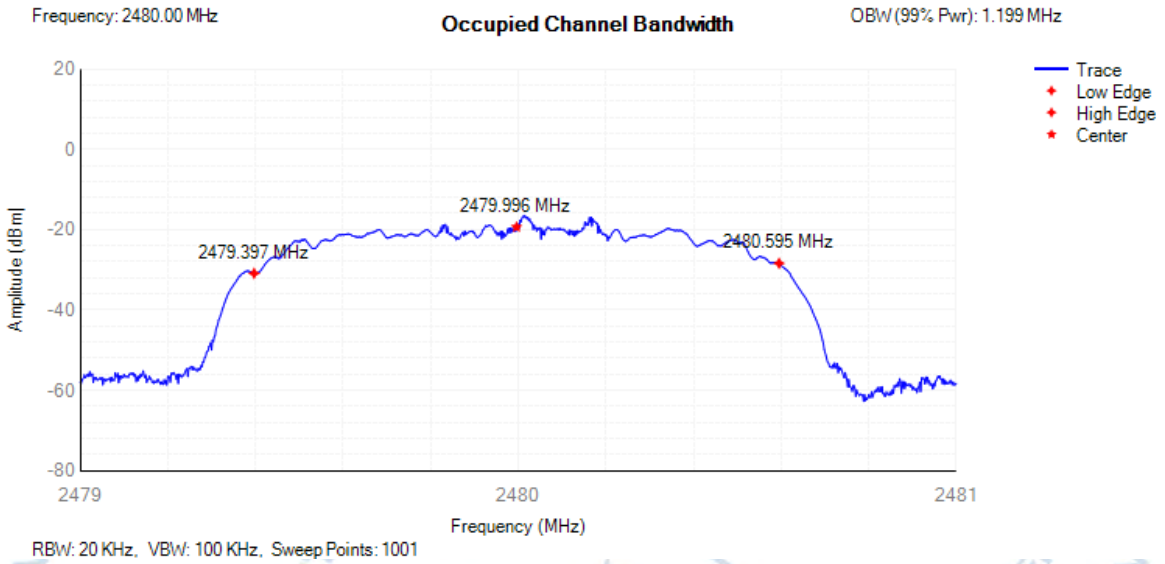

OBW NVNT 2-DH5 2480MHz




OBW NVNT 3-DH5 2402MHz



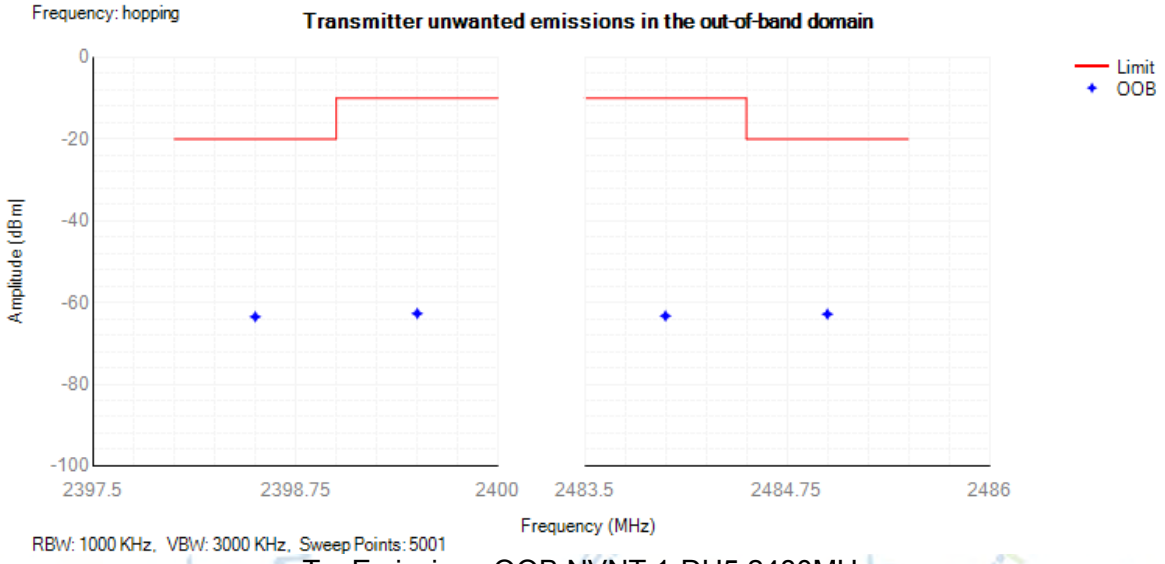
OBW NVNT 3-DH5 2480MHz



## 11.7 TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

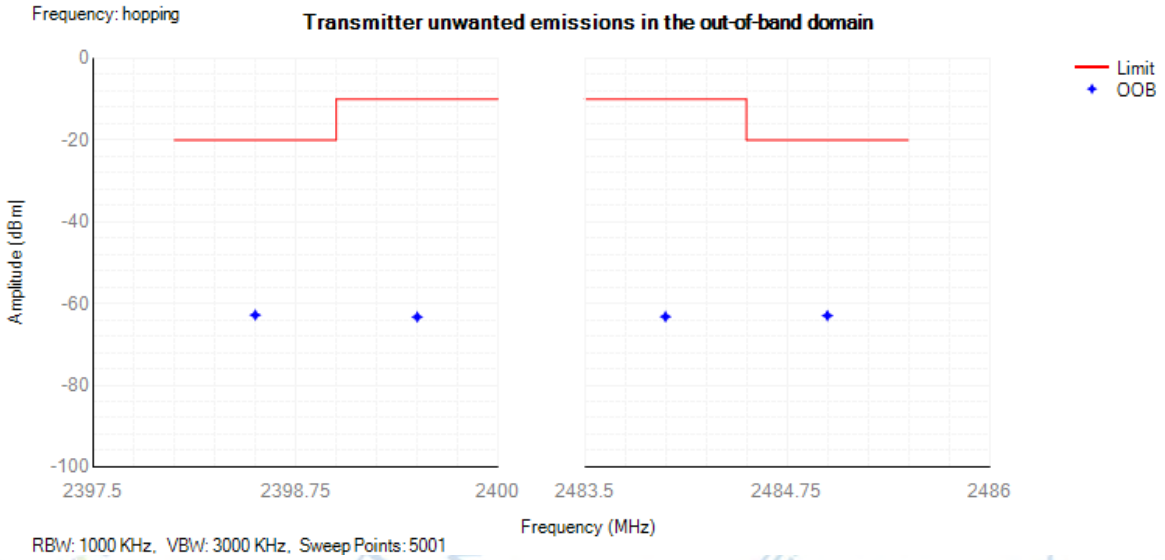
| Condition | Mode | Frequency (MHz) | OOB Frequency (MHz) | Level (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | hopping | 2399.5 | -62.69 | -10 | Pass |
| NVNT | 1-DH5 | hopping | 2398.5 | -63.49 | -20 | Pass |
| NVNT | 1-DH5 | hopping | 2484 | -63.29 | -10 | Pass |
| NVNT | 1-DH5 | hopping | 2485 | -62.84 | -20 | Pass |
| NVNT | 1-DH5 | hopping | 2399.5 | -63.3 | -10 | Pass |
| NVNT | 1-DH5 | hopping | 2398.5 | -62.82 | -20 | Pass |
| NVNT | 1-DH5 | hopping | 2484 | -63.22 | -10 | Pass |
| NVNT | 1-DH5 | hopping | 2485 | -62.97 | -20 | Pass |
| NVNT | 2-DH5 | hopping | 2399.5 | -63.05 | -10 | Pass |
| NVNT | 2-DH5 | hopping | 2399.313 | -63.5 | -10 | Pass |
| NVNT | 2-DH5 | hopping | 2398.313 | -63.46 | -20 | Pass |
| NVNT | 2-DH5 | hopping | 2398.126 | -62.59 | -20 | Pass |
| NVNT | 2-DH5 | hopping | 2484 | -63.06 | -10 | Pass |
| NVNT | 2-DH5 | hopping | 2485 | -63.15 | -20 | Pass |
| NVNT | 2-DH5 | hopping | 2399.5 | -63.21 | -10 | Pass |
| NVNT | 2-DH5 | hopping | 2399.313 | -63.18 | -10 | Pass |
| NVNT | 2-DH5 | hopping | 2398.313 | -63.65 | -20 | Pass |
| NVNT | 2-DH5 | hopping | 2398.126 | -63.72 | -20 | Pass |
| NVNT | 2-DH5 | hopping | 2484 | -63.13 | -10 | Pass |
| NVNT | 2-DH5 | hopping | 2484.177 | -63.01 | -10 | Pass |
| NVNT | 2-DH5 | hopping | 2485.177 | -62.63 | -20 | Pass |
| NVNT | 2-DH5 | hopping | 2485.354 | -63.45 | -20 | Pass |
| NVNT | 3-DH5 | hopping | 2399.5 | -37.58 | -10 | Pass |
| NVNT | 3-DH5 | hopping | 2399.299 | -37.86 | -10 | Pass |
| NVNT | 3-DH5 | hopping | 2398.299 | -37.87 | -20 | Pass |
| NVNT | 3-DH5 | hopping | 2398.098 | -37.78 | -20 | Pass |
| NVNT | 3-DH5 | hopping | 2484 | -37.42 | -10 | Pass |
| NVNT | 3-DH5 | hopping | 2484.177 | -37.65 | -10 | Pass |
| NVNT | 3-DH5 | hopping | 2485.177 | -37.43 | -20 | Pass |
| NVNT | 3-DH5 | hopping | 2485.354 | -37.64 | -20 | Pass |
| NVNT | 3-DH5 | hopping | 2399.5 | -63.42 | -10 | Pass |
| NVNT | 3-DH5 | hopping | 2399.299 | -63.62 | -10 | Pass |
| NVNT | 3-DH5 | hopping | 2398.299 | -63.28 | -20 | Pass |
| NVNT | 3-DH5 | hopping | 2398.098 | -63.36 | -20 | Pass |
| NVNT | 3-DH5 | hopping | 2484 | -63.28 | -10 | Pass |
| NVNT | 3-DH5 | hopping | 2484.199 | -63.22 | -10 | Pass |
| NVNT | 3-DH5 | hopping | 2485.199 | -63.25 | -20 | Pass |
| NVNT | 3-DH5 | hopping | 2485.398 | -62.24 | -20 | Pass |

## Tx. Emissions OOB NVNT 1-DH5 2402MHz



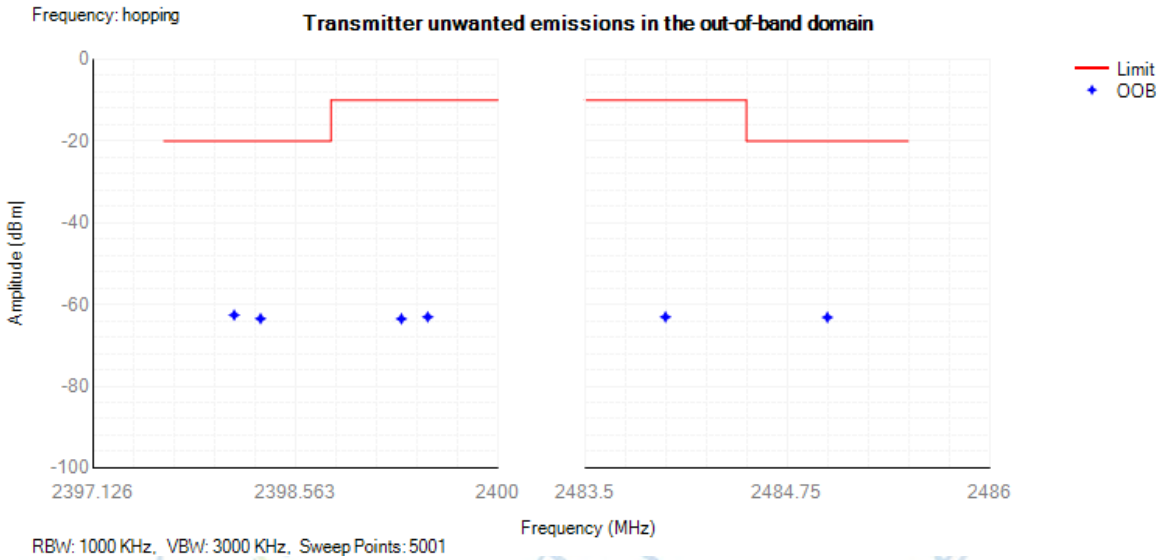

RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001

## Tx. Emissions OOB NVNT 1-DH5 2480MHz



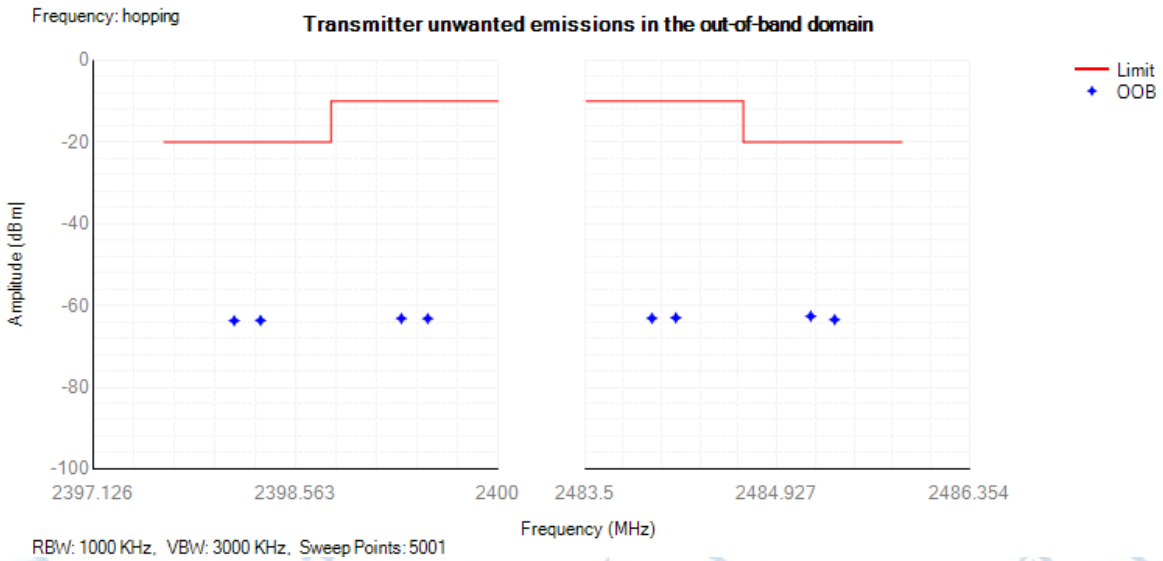

RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001

## Tx. Emissions OOB NVNT 2-DH5 2402MHz



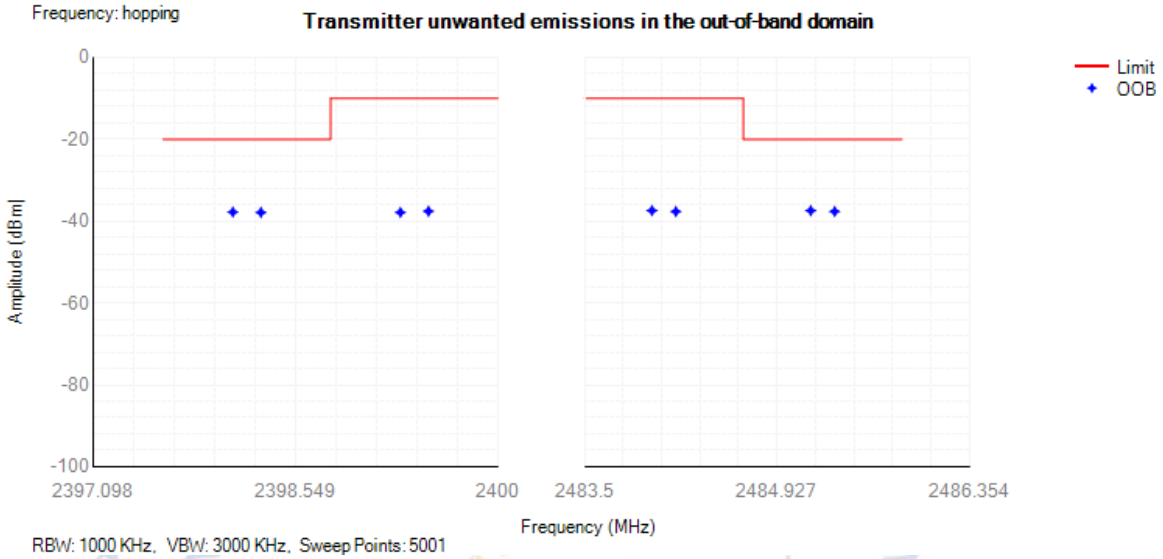

RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001

Tx. Emissions OOB NVNT 2-DH5 2480MHz



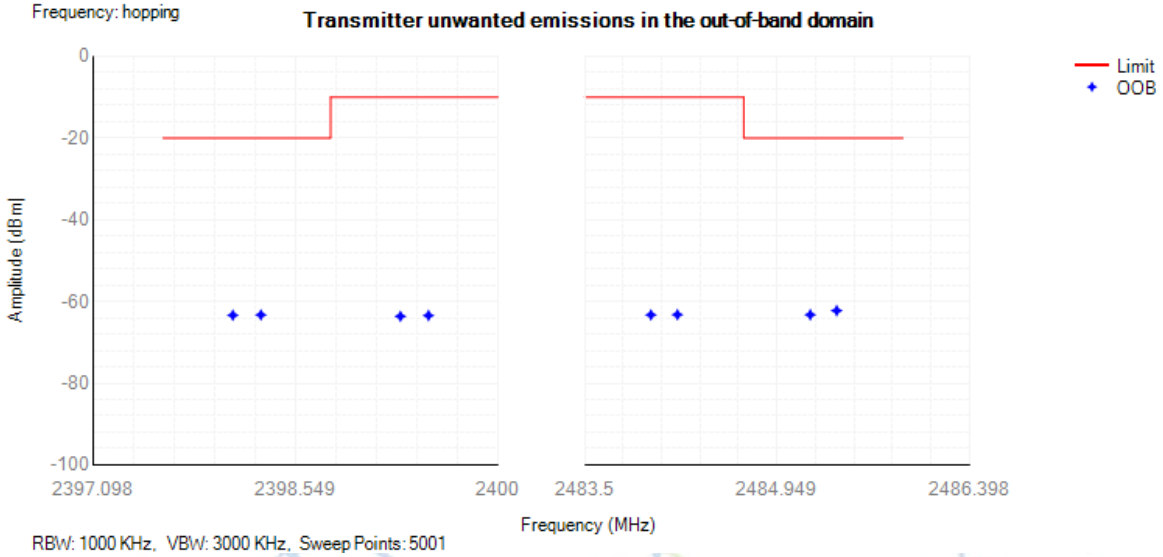

RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001

Tx. Emissions OOB NVNT 3-DH5 2402MHz




RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001

Tx. Emissions OOB NVNT 3-DH5 2480MHz



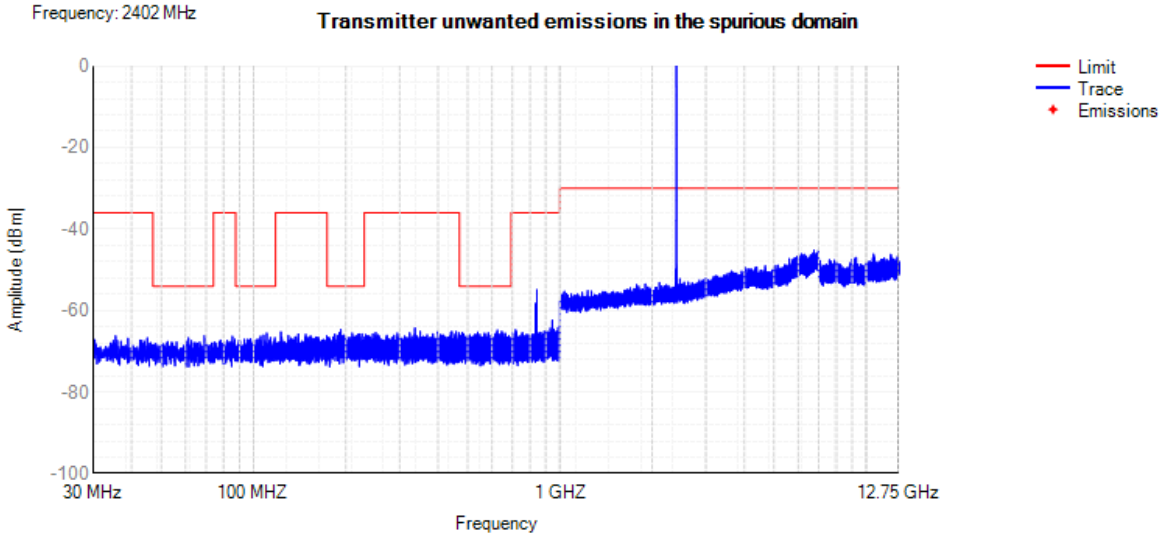

RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001

## 11.8 TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

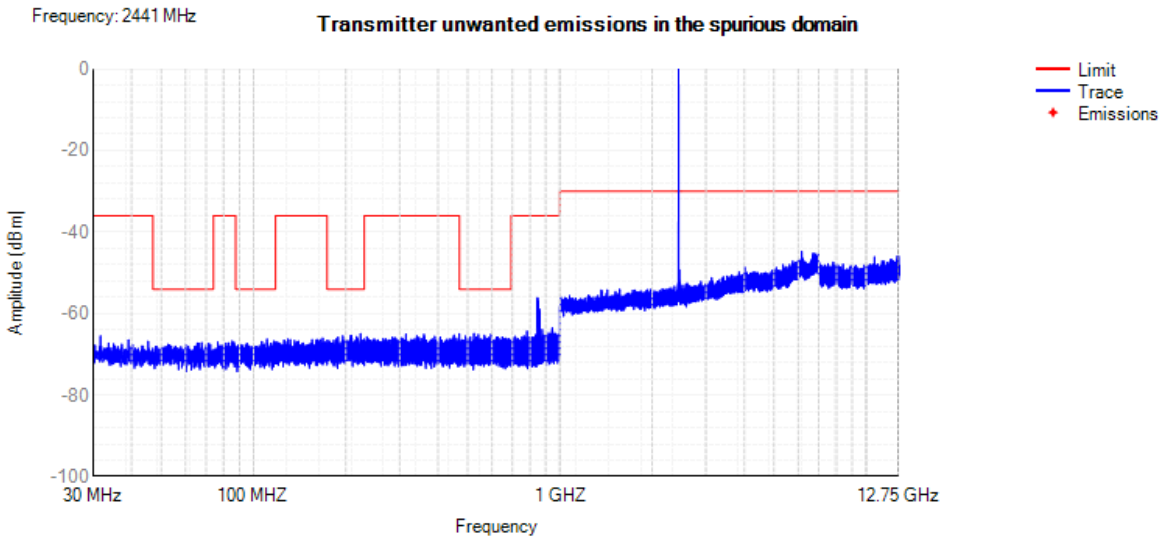
| Condition | Mode | Frequency (MHz) | Range | Spur Freq (MHz) | Spur Level Peak(dBm) | Spur Level RMS(dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | 30 MHz -47 MHz | 35.45 | -66.17 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2402 | 47 MHz -74 MHz | 69.2 | -66.13 | NA | -54 | Pass |
| NVNT | 1-DH5 | 2402 | 74 MHz -87.5 MHz | 85.35 | -66.3 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2402 | 87.5 MHz -118 MHz | 110.5 | -65.52 | NA | -54 | Pass |
| NVNT | 1-DH5 | 2402 | 118 MHz -174 MHz | 122.85 | -65.21 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2402 | 174 MHz -230 MHz | 192.75 | -64.66 | NA | -54 | Pass |
| NVNT | 1-DH5 | 2402 | 230 MHz -470 MHz | 336.25 | -64.24 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2402 | 470 MHz -694 MHz | 625.15 | -64.77 | NA | -54 | Pass |
| NVNT | 1-DH5 | 2402 | 694 MHz -1000 MHz | 841.15 | -54.88 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2402 | 1000 MHz -2398 MHz | 2393.5 | -49.86 | NA | -30 | Pass |
| NVNT | 1-DH5 | 2402 | 2485.5 MHz -12750 MHz | 6988 | -45.16 | NA | -30 | Pass |
| NVNT | 1-DH5 | 2441 | 30 MHz -47 MHz | 31.65 | -65.47 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2441 | 47 MHz -74 MHz | 67.75 | -67.12 | NA | -54 | Pass |
| NVNT | 1-DH5 | 2441 | 74 MHz -87.5 MHz | 85.3 | -66.71 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2441 | 87.5 MHz -118 MHz | 110.7 | -66.26 | NA | -54 | Pass |
| NVNT | 1-DH5 | 2441 | 118 MHz -174 MHz | 168.3 | -65.99 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2441 | 174 MHz -230 MHz | 223.55 | -64.9 | NA | -54 | Pass |
| NVNT | 1-DH5 | 2441 | 230 MHz -470 MHz | 469.7 | -64.91 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2441 | 470 MHz -694 MHz | 524.25 | -64.85 | NA | -54 | Pass |
| NVNT | 1-DH5 | 2441 | 694 MHz -1000 MHz | 845.75 | -56.08 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2441 | 1000 MHz -2398 MHz | 2365.5 | -53.29 | NA | -30 | Pass |
| NVNT | 1-DH5 | 2441 | 2485.5 MHz -12750 MHz | 6159.5 | -44.72 | NA | -30 | Pass |
| NVNT | 1-DH5 | 2480 | 30 MHz -47 MHz | 44.95 | -66.19 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2480 | 47 MHz -74 MHz | 62.6 | -66.83 | NA | -54 | Pass |
| NVNT | 1-DH5 | 2480 | 74 MHz -87.5 MHz | 83.05 | -66.32 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2480 | 87.5 MHz -118 MHz | 92.55 | -65.53 | NA | -54 | Pass |
| NVNT | 1-DH5 | 2480 | 118 MHz -174 MHz | 123.35 | -65.42 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2480 | 174 MHz -230 MHz | 200.15 | -64.91 | NA | -54 | Pass |
| NVNT | 1-DH5 | 2480 | 230 MHz -470 MHz | 445.9 | -64.96 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2480 | 470 MHz -694 MHz | 666.9 | -64.82 | NA | -54 | Pass |
| NVNT | 1-DH5 | 2480 | 694 MHz -1000 MHz | 832.4 | -51.56 | NA | -36 | Pass |
| NVNT | 1-DH5 | 2480 | 1000 MHz -2398 MHz | 1886 | -44.07 | NA | -30 | Pass |
| NVNT | 1-DH5 | 2480 | 2485.5 MHz -12750 MHz | 6879 | -45 | NA | -30 | Pass |
| NVNT | 2-DH5 | 2402 | 30 MHz -47 MHz | 37.75 | -65.81 | NA | -36 | Pass |
| NVNT | 2-DH5 | 2402 | 47 MHz -74 MHz | 64.95 | -66.93 | NA | -54 | Pass |
| NVNT | 2-DH5 | 2402 | 74 MHz -87.5 MHz | 81.7 | -66.78 | NA | -36 | Pass |
| NVNT | 2-DH5 | 2402 | 87.5 MHz -118 MHz | 107.3 | -66.67 | NA | -54 | Pass |
| NVNT | 2-DH5 | 2402 | 118 MHz -174 MHz | 118.05 | -65.7 | NA | -36 | Pass |
| NVNT | 2-DH5 | 2402 | 174 MHz -230 MHz | 212.25 | -64.9 | NA | -54 | Pass |
| NVNT | 2-DH5 | 2402 | 230 MHz -470 MHz | 284.3 | -64.37 | NA | -36 | Pass |
| NVNT | 2-DH5 | 2402 | 470 MHz -694 MHz | 537.7 | -64.2 | NA | -54 | Pass |
| NVNT | 2-DH5 | 2402 | 694 MHz -1000 MHz | 844.85 | -48.11 | NA | -36 | Pass |
| NVNT | 2-DH5 | 2402 | 1000 MHz -2398 MHz | 2397.5 | -52.84 | NA | -30 | Pass |
| NVNT | 2-DH5 | 2402 | 2485.5 MHz -12750 MHz | 6834.5 | -45.44 | NA | -30 | Pass |
| NVNT | 2-DH5 | 2441 | 30 MHz -47 MHz | 34.55 | -66.08 | NA | -36 | Pass |
| NVNT | 2-DH5 | 2441 | 47 MHz -74 MHz | 60.6 | -66.59 | NA | -54 | Pass |
| NVNT | 2-DH5 | 2441 | 74 MHz -87.5 MHz | 83.5 | -66.92 | NA | -36 | Pass |
| NVNT | 2-DH5 | 2441 | 87.5 MHz -118 MHz | 100.75 | -66.18 | NA | -54 | Pass |
| NVNT | 2-DH5 | 2441 | 118 MHz -174 MHz | 146.9 | -65.87 | NA | -36 | Pass |
| NVNT | 2-DH5 | 2441 | 174 MHz -230 MHz | 214.05 | -64.57 | NA | -54 | Pass |
| NVNT | 2-DH5 | 2441 | 230 MHz -470 MHz | 295.75 | -64.76 | NA | -36 | Pass |
| NVNT | 2-DH5 | 2441 | 470 MHz -694 MHz | 676.65 | -64.82 | NA | -54 | Pass |
| NVNT | 2-DH5 | 2441 | 694 MHz -1000 MHz | 850.15 | -60.6 | NA | -36 | Pass |
| NVNT | 2-DH5 | 2441 | 1000 MHz -2398 MHz | 2216 | -52.52 | NA | -30 | Pass |
| NVNT | 2-DH5 | 2441 | 2485.5 MHz -12750 MHz | 6675 | -45.57 | NA | -30 | Pass |
| NVNT | 2-DH5 | 2480 | 30 MHz -47 MHz | 41.27 | -66.51 | NA | -36 | Pass |
| NVNT | 2-DH5 | 2480 | 47 MHz -74 MHz | 51.14 | -65.54 | NA | -54 | Pass |
| NVNT | 2-DH5 | 2480 | 74 MHz -87.5 MHz | 87.39 | -67.12 | NA | -36 | Pass |
| NVNT | 2-DH5 | 2480 | 87.5 MHz -118 MHz | 90.87 | -66.89 | NA | -54 | Pass |
| NVNT | 2-DH5 | 2480 | 118 MHz -174 MHz | 126.88 | -64.54 | NA | -36 | Pass |
| NVNT | 2-DH5 | 2480 | 174 MHz -230 MHz | 223.65 | -65.57 | NA | -54 | Pass |
| NVNT | 2-DH5 | 2480 | 230 MHz -470 MHz | 242.47 | -64.96 | NA | -36 | Pass |
| NVNT | 2-DH5 | 2480 | 470 MHz -694 MHz | 664.16 | -64.27 | NA | -54 | Pass |
| NVNT | 2-DH5 | 2480 | 694 MHz -1000 MHz | 833.18 | -51.71 | NA | -36 | Pass |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NVNT | 2-DH5 | 2480 | 1000 MHz -2398 MHz | 2200.33 | -52.83 | NA | -30 | Pass |
| NVNT | 2-DH5 | 2480 | 2485.5 MHz -12750 MHz | 6948.17 | -45.55 | NA | -30 | Pass |
| NVNT | 3-DH5 | 2402 | 30 MHz -47 MHz | 32.9 | -66.46 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2402 | 47 MHz -74 MHz | 67.05 | -66.23 | NA | -54 | Pass |
| NVNT | 3-DH5 | 2402 | 74 MHz -87.5 MHz | 84.6 | -66.21 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2402 | 87.5 MHz -118 MHz | 108.7 | -66.46 | NA | -54 | Pass |
| NVNT | 3-DH5 | 2402 | 118 MHz -174 MHz | 128.5 | -65.16 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2402 | 174 MHz -230 MHz | 208.15 | -64.28 | NA | -54 | Pass |
| NVNT | 3-DH5 | 2402 | 230 MHz -470 MHz | 230.9 | -64.63 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2402 | 470 MHz -694 MHz | 595.2 | -64.3 | NA | -54 | Pass |
| NVNT | 3-DH5 | 2402 | 694 MHz -1000 MHz | 843.1 | -54.95 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2402 | 1000 MHz -2398 MHz | 2397.5 | -47.11 | NA | -30 | Pass |
| NVNT | 3-DH5 | 2402 | 2485.5 MHz -12750 MHz | 6914.5 | -45.18 | NA | -30 | Pass |
| NVNT | 3-DH5 | 2441 | 30 MHz -47 MHz | 41.85 | -66.38 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2441 | 47 MHz -74 MHz | 47.65 | -66.58 | NA | -54 | Pass |
| NVNT | 3-DH5 | 2441 | 74 MHz -87.5 MHz | 87.15 | -66.51 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2441 | 87.5 MHz -118 MHz | 108.35 | -66.25 | NA | -54 | Pass |
| NVNT | 3-DH5 | 2441 | 118 MHz -174 MHz | 158.55 | -66.29 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2441 | 174 MHz -230 MHz | 193 | -65.35 | NA | -54 | Pass |
| NVNT | 3-DH5 | 2441 | 230 MHz -470 MHz | 316.8 | -65.08 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2441 | 470 MHz -694 MHz | 537.4 | -64.89 | NA | -54 | Pass |
| NVNT | 3-DH5 | 2441 | 694 MHz -1000 MHz | 844.1 | -62.85 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2441 | 1000 MHz -2398 MHz | 2178.5 | -52.7 | NA | -30 | Pass |
| NVNT | 3-DH5 | 2441 | 2485.5 MHz -12750 MHz | 6770 | -44.19 | NA | -30 | Pass |
| NVNT | 3-DH5 | 2480 | 30 MHz -47 MHz | 42.5 | -66.73 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2480 | 47 MHz -74 MHz | 64.85 | -66.33 | NA | -54 | Pass |
| NVNT | 3-DH5 | 2480 | 74 MHz -87.5 MHz | 83 | -64.68 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2480 | 87.5 MHz -118 MHz | 97.95 | -65.71 | NA | -54 | Pass |
| NVNT | 3-DH5 | 2480 | 118 MHz -174 MHz | 165.55 | -64.61 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2480 | 174 MHz -230 MHz | 198.8 | -65.24 | NA | -54 | Pass |
| NVNT | 3-DH5 | 2480 | 230 MHz -470 MHz | 318.25 | -64.67 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2480 | 470 MHz -694 MHz | 536.25 | -65.35 | NA | -54 | Pass |
| NVNT | 3-DH5 | 2480 | 694 MHz -1000 MHz | 948.45 | -61.52 | NA | -36 | Pass |
| NVNT | 3-DH5 | 2480 | 1000 MHz -2398 MHz | 2265.5 | -52.86 | NA | -30 | Pass |
| NVNT | 3-DH5 | 2480 | 2485.5 MHz -12750 MHz | 6882.5 | -44.3 | NA | -30 | Pass |

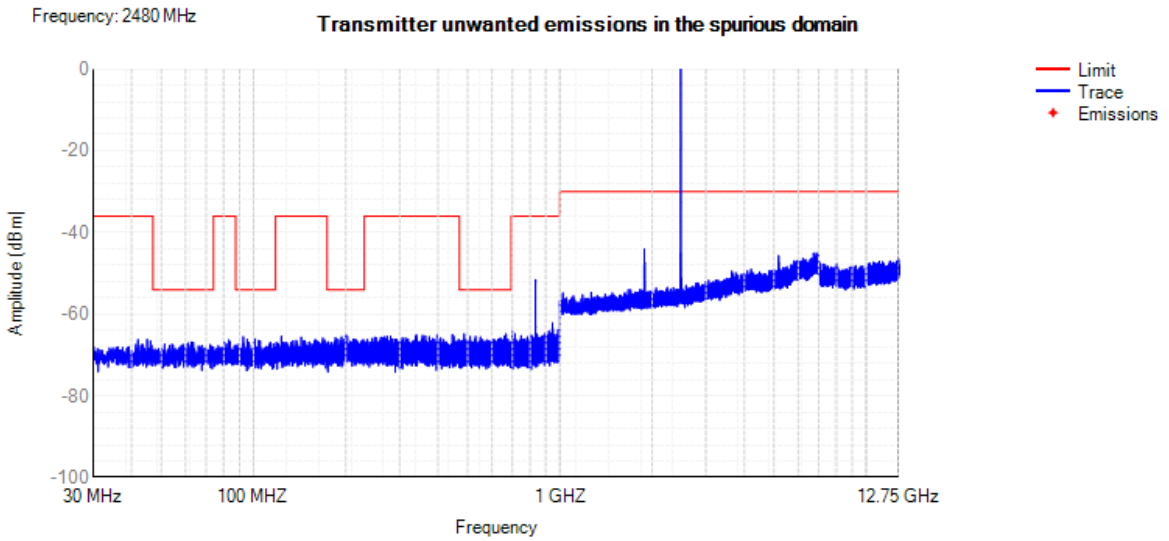
Tx. Spurious NVNT 1-DH5 2402MHz



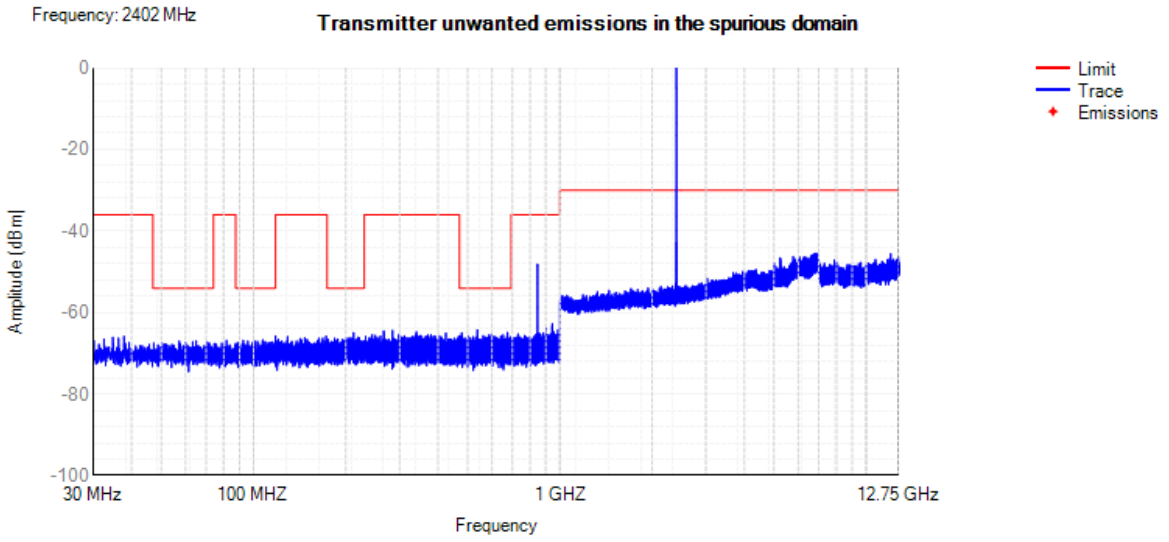
Tx. Spurious NVNT 1-DH5 2441MHz



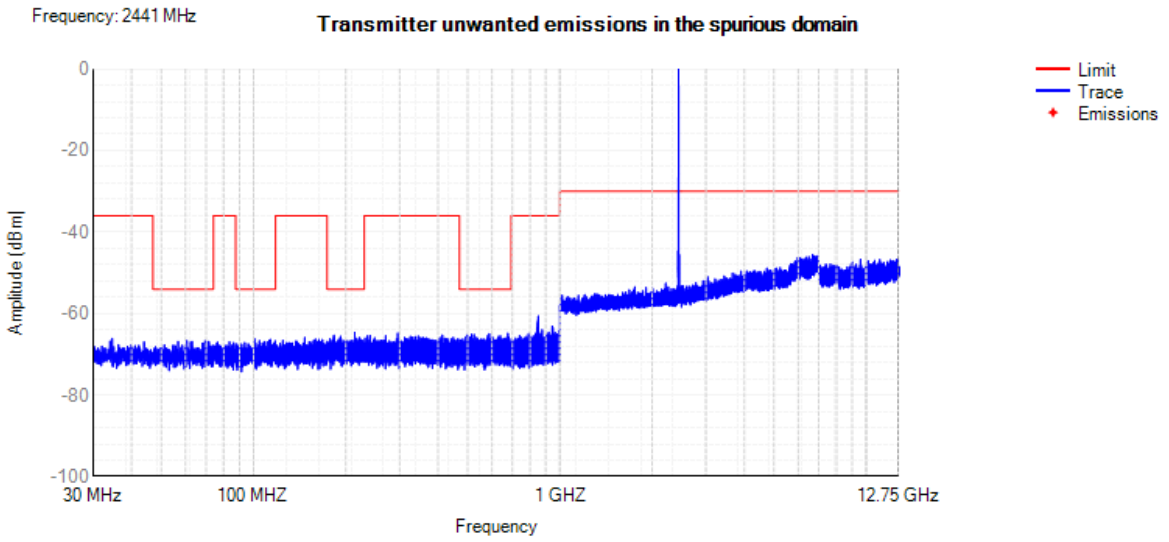

Tx. Spurious NVNT 1-DH5 2480MHz



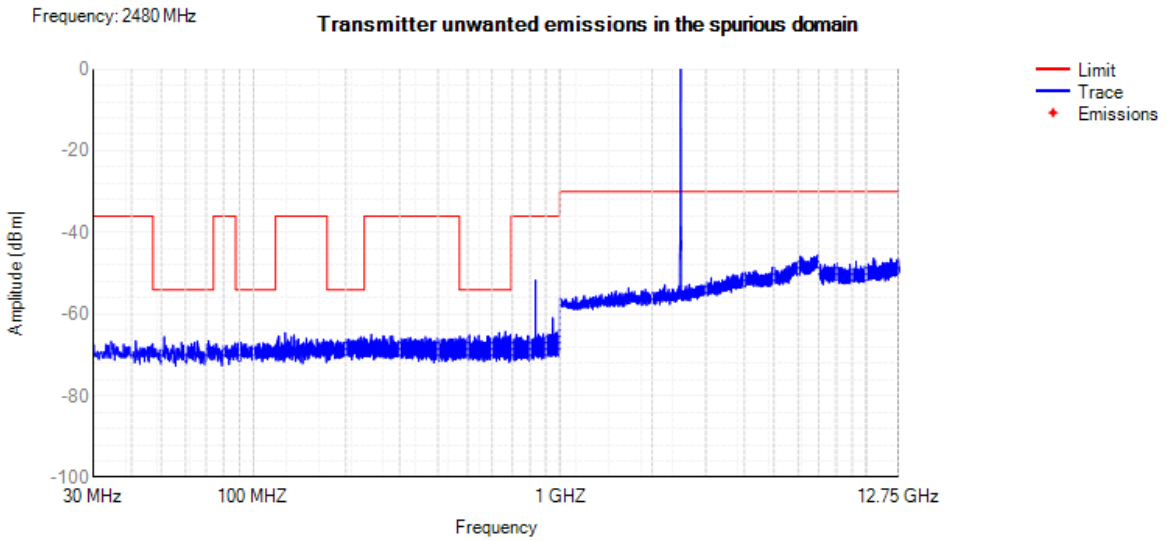

Tx. Spurious NVNT 2-DH5 2402MHz



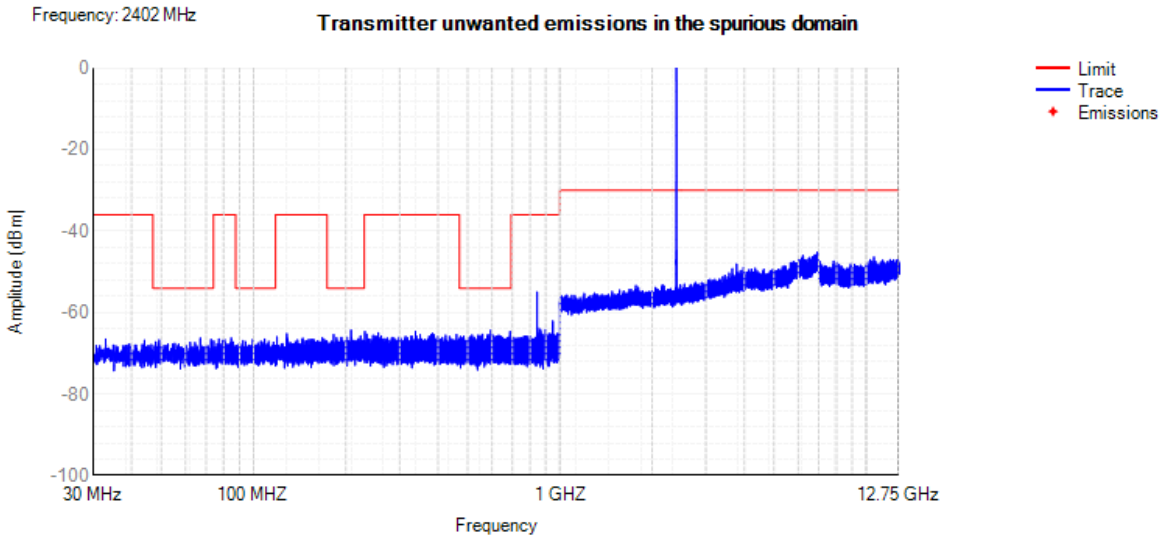
Tx. Spurious NVNT 2-DH5 2441MHz



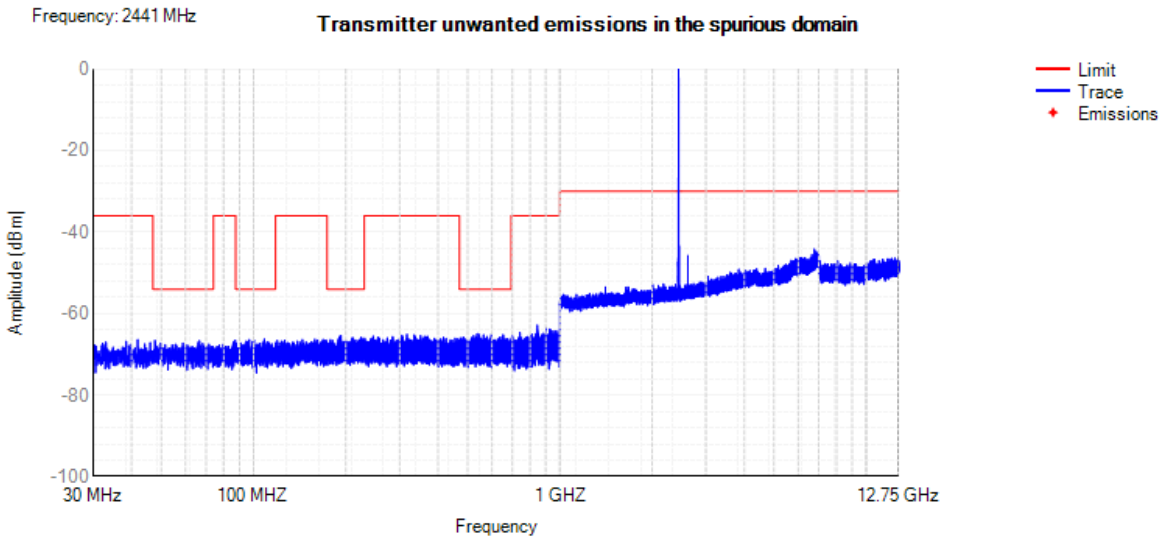

Tx. Spurious NVNT 2-DH5 2480MHz



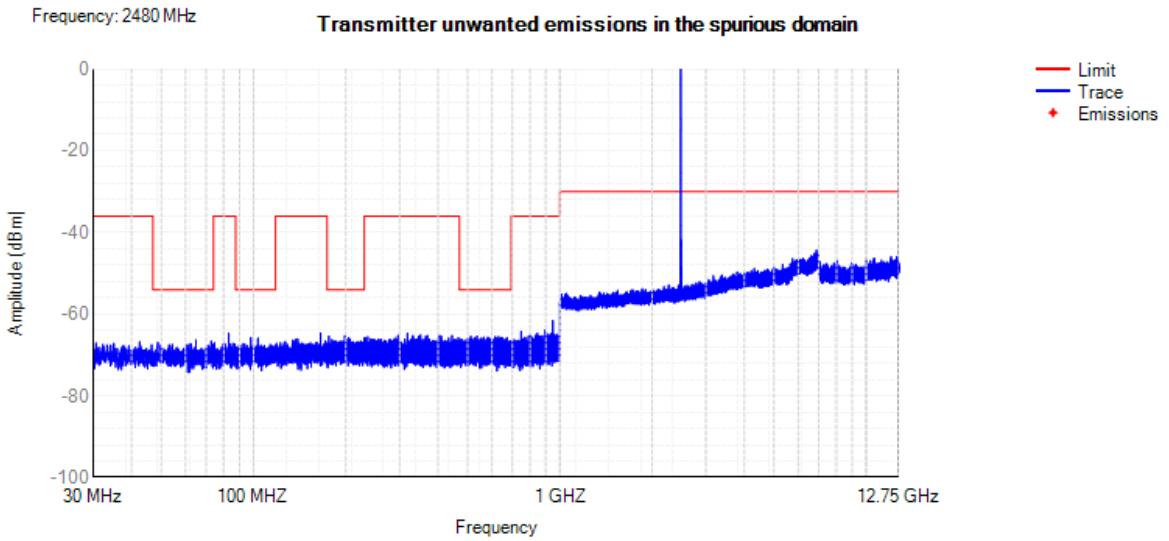

Tx. Spurious NVNT 3-DH5 2402MHz



Tx. Spurious NVNT 3-DH5 2441MHz



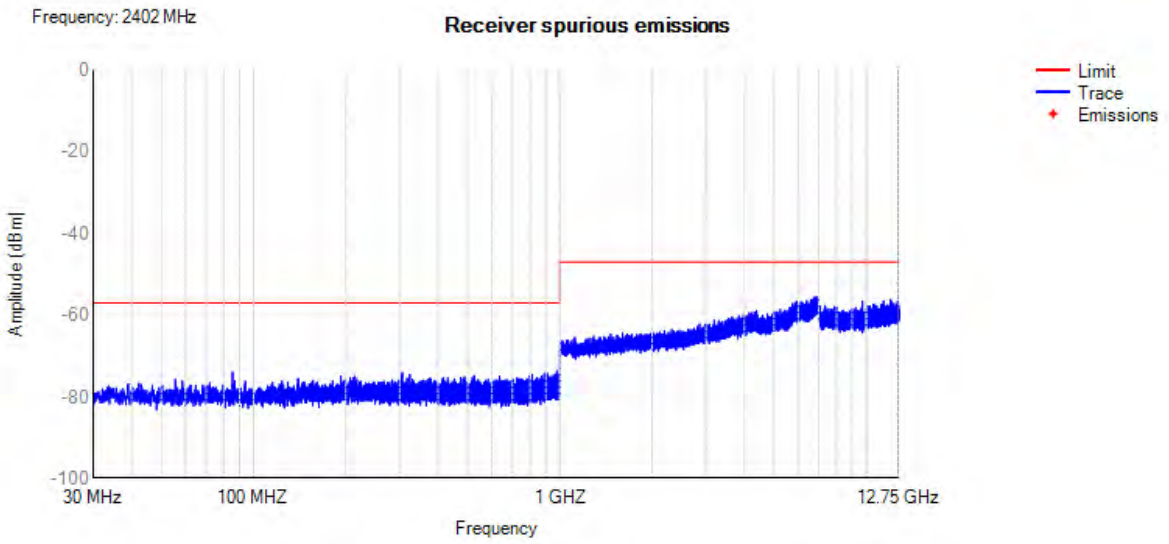

Tx. Spurious NVNT 3-DH5 2480MHz



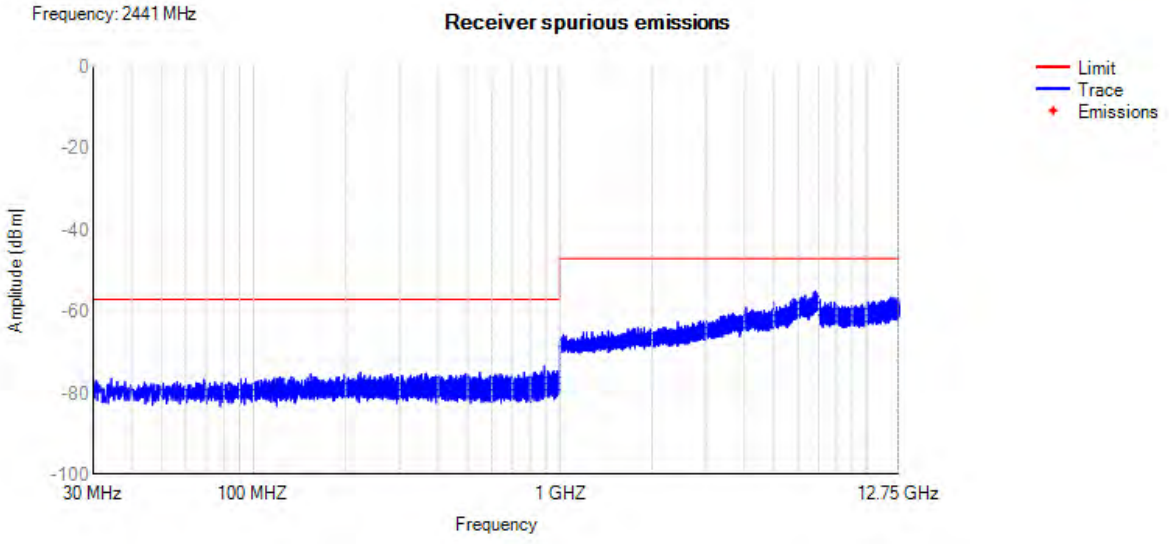
## 11.9 RECEIVER SPURIOUS EMISSIONS

| Condition | Mode | Frequency (MHz) | Range | Spur Freq (MHz) | Spur Level Peak(dBm) | Spur Level RMS(dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | 30 MHz -1000 MHz | 978.15 | -73.56 | NA | -57 | Pass |
| NVNT | 1-DH5 | 2402 | 1000 MHz -12750 MHz | 6871 | -55.41 | NA | -47 | Pass |
| NVNT | 1-DH5 | 2441 | 30 MHz -1000 MHz | 889.7 | -73.28 | NA | -57 | Pass |
| NVNT | 1-DH5 | 2441 | 1000 MHz -12750 MHz | 6831 | -55.02 | NA | -47 | Pass |
| NVNT | 1-DH5 | 2480 | 30 MHz -1000 MHz | 942.3 | -74.12 | NA | -57 | Pass |
| NVNT | 1-DH5 | 2480 | 1000 MHz -12750 MHz | 6846.5 | -55.23 | NA | -47 | Pass |
| NVNT | 2-DH5 | 2402 | 30 MHz -1000 MHz | 991.5 | -72.69 | NA | -57 | Pass |
| NVNT | 2-DH5 | 2402 | 1000 MHz -12750 MHz | 6956.5 | -55.17 | NA | -47 | Pass |
| NVNT | 2-DH5 | 2441 | 30 MHz -1000 MHz | 994.1 | -73.64 | NA | -57 | Pass |
| NVNT | 2-DH5 | 2441 | 1000 MHz -12750 MHz | 6714.5 | -54.97 | NA | -47 | Pass |
| NVNT | 2-DH5 | 2483 | 30 MHz -1000 MHz | 287.5 | -74.05 | NA | -57 | Pass |
| NVNT | 2-DH5 | 2483 | 1000 MHz -12750 MHz | 6961.5 | -54.66 | NA | -47 | Pass |
| NVNT | 3-DH5 | 2402 | 30 MHz -1000 MHz | 957 | -73.87 | NA | -57 | Pass |
| NVNT | 3-DH5 | 2402 | 1000 MHz -12750 MHz | 6867 | -55.44 | NA | -47 | Pass |
| NVNT | 3-DH5 | 2441 | 30 MHz -1000 MHz | 901.4 | -61.32 | -77.64 | -57 | Pass |
| NVNT | 3-DH5 | 2441 | 1000 MHz -12750 MHz | 6889 | -55.28 | NA | -47 | Pass |
| NVNT | 3-DH5 | 2480 | 30 MHz -1000 MHz | 267.35 | -73.75 | NA | -57 | Pass |
| NVNT | 3-DH5 | 2480 | 1000 MHz -12750 MHz | 6691.5 | -54.57 | NA | -47 | Pass |

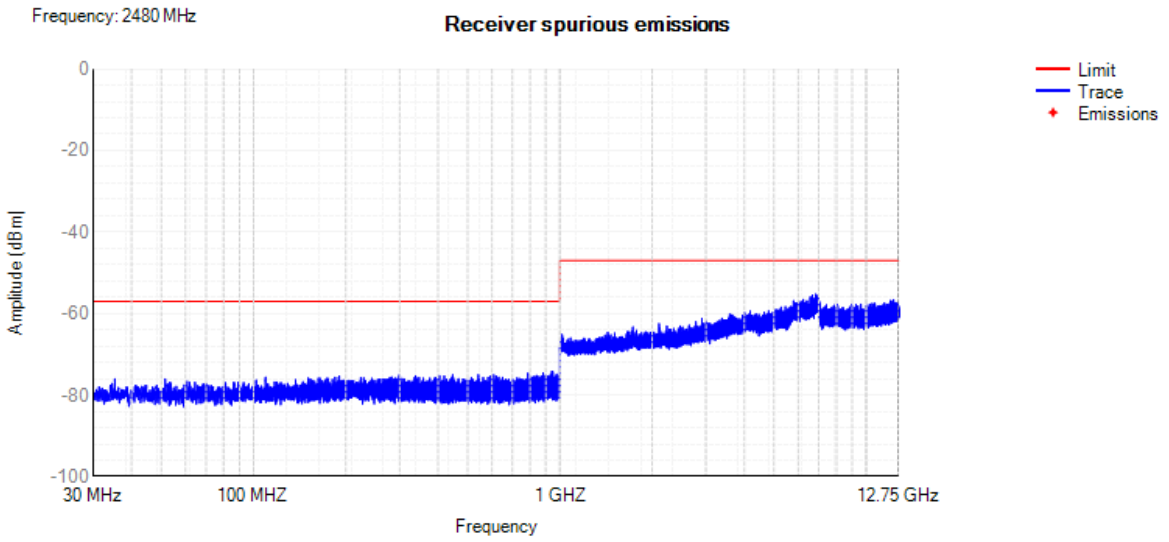
Rx. Spurious NVNT 1-DH5 2402MHz



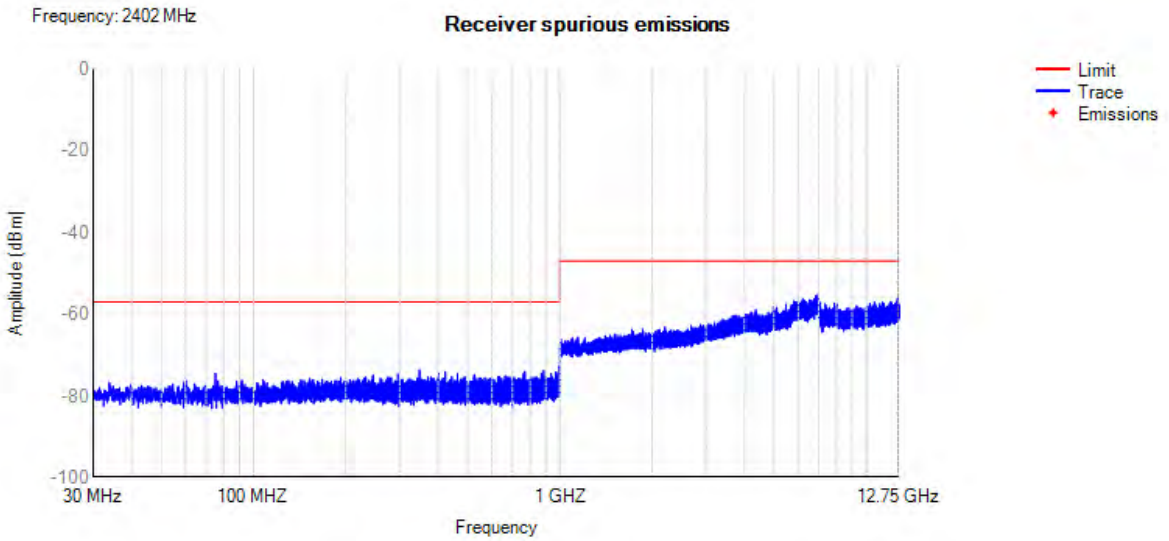

Rx. Spurious NVNT 1-DH5 2441MHz



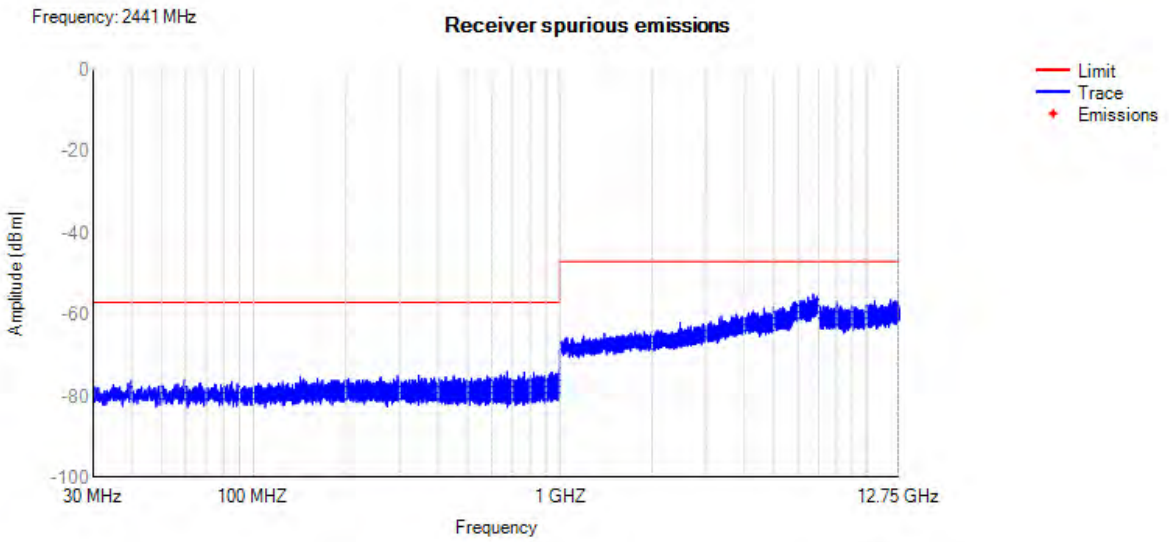
Rx. Spurious NVNT 1-DH5 2480MHz



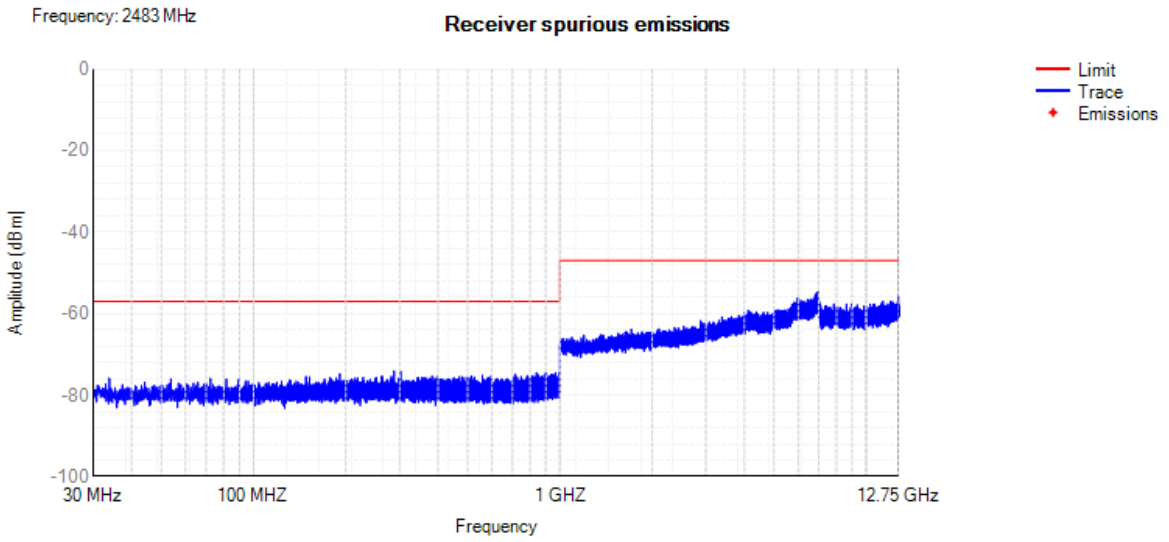

Rx. Spurious NVNT 2-DH5 2402MHz



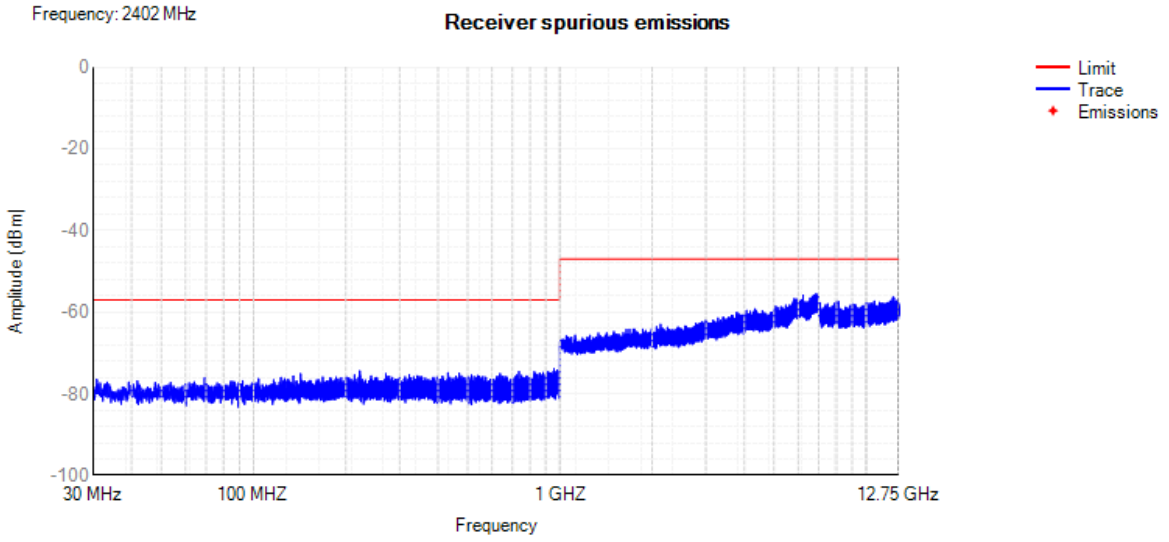

Rx. Spurious NVNT 2-DH5 2441MHz



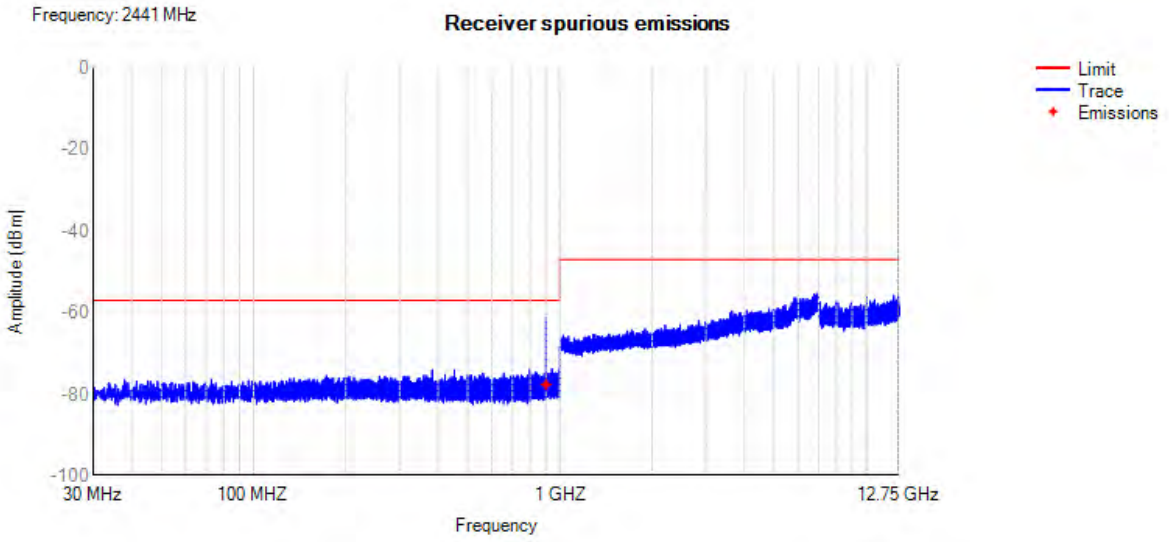
Rx. Spurious NVNT 2-DH5 2483MHz



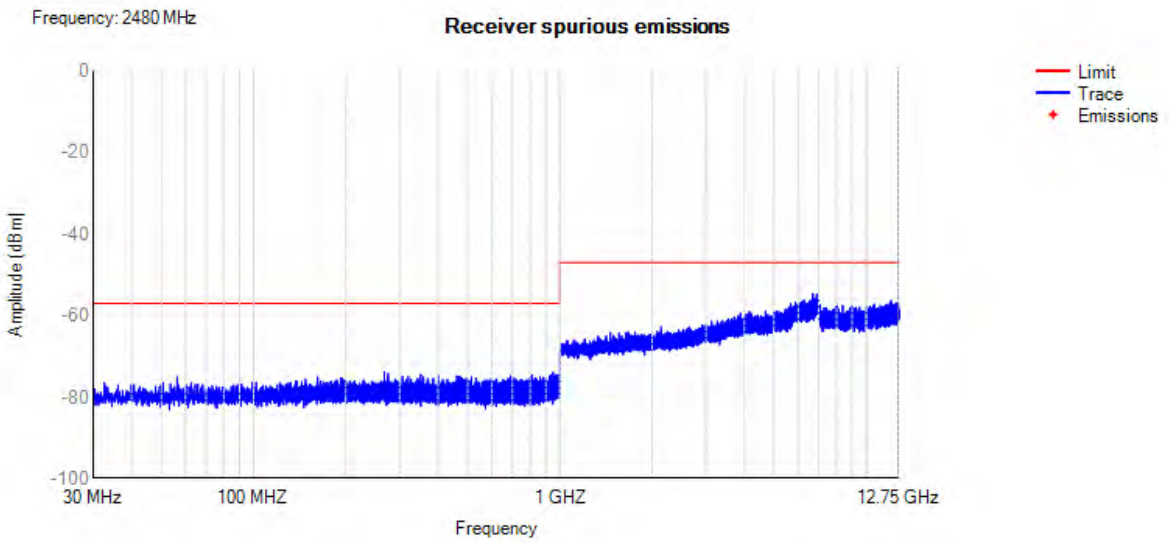

Rx. Spurious NVNT 3-DH5 2402MHz




Rx. Spurious NVNT 3-DH5 2441MHz



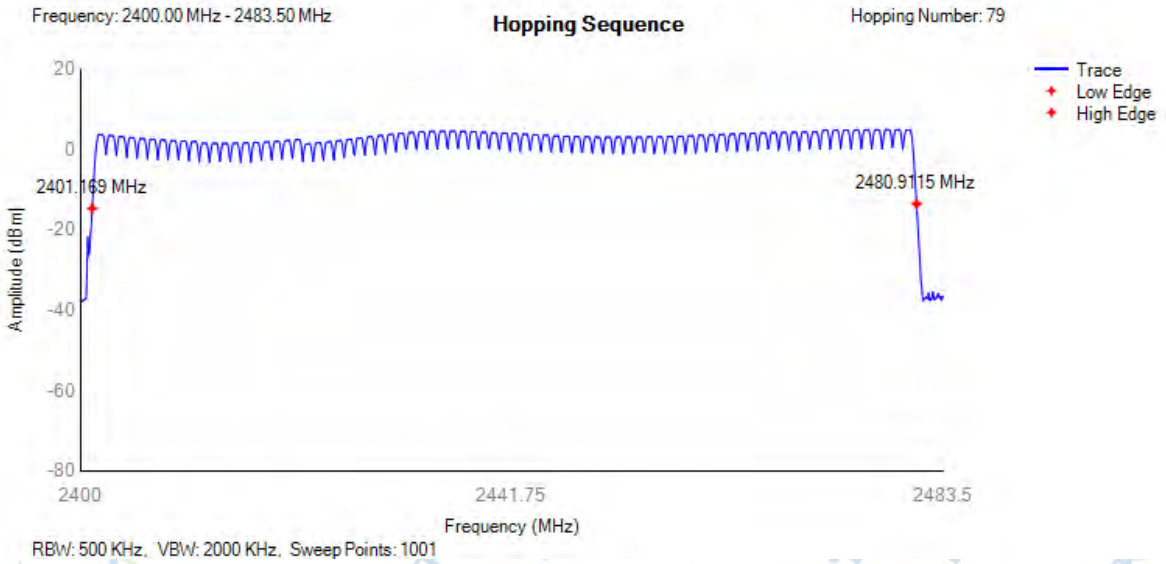
Rx. Spurious NVNT 3-DH5 2480MHz



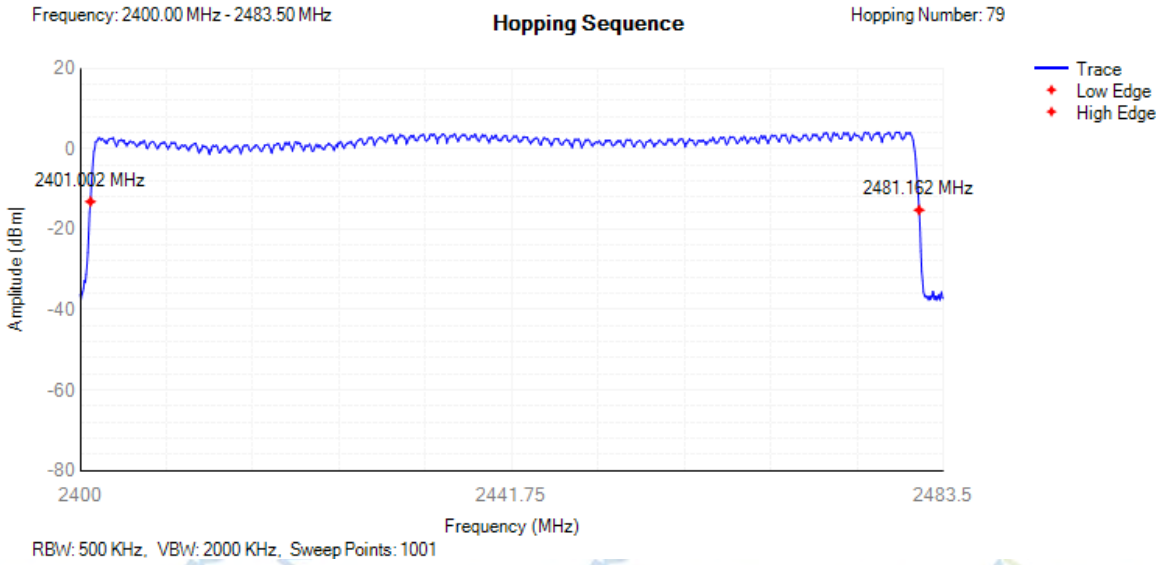
## 11.10 HOPPING SEQUENCE

| Condition | Mode | Hopping Number | Limit | Band Allocation (%) | Limit Band Allocation (%) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 79 | 15 | 95.5 | 70 | Pass |
| NVNT | 2-DH5 | 79 | 15 | 96 | 70 | Pass |
| NVNT | 3-DH5 | 79 | 15 | 95.9 | 70 | Pass |

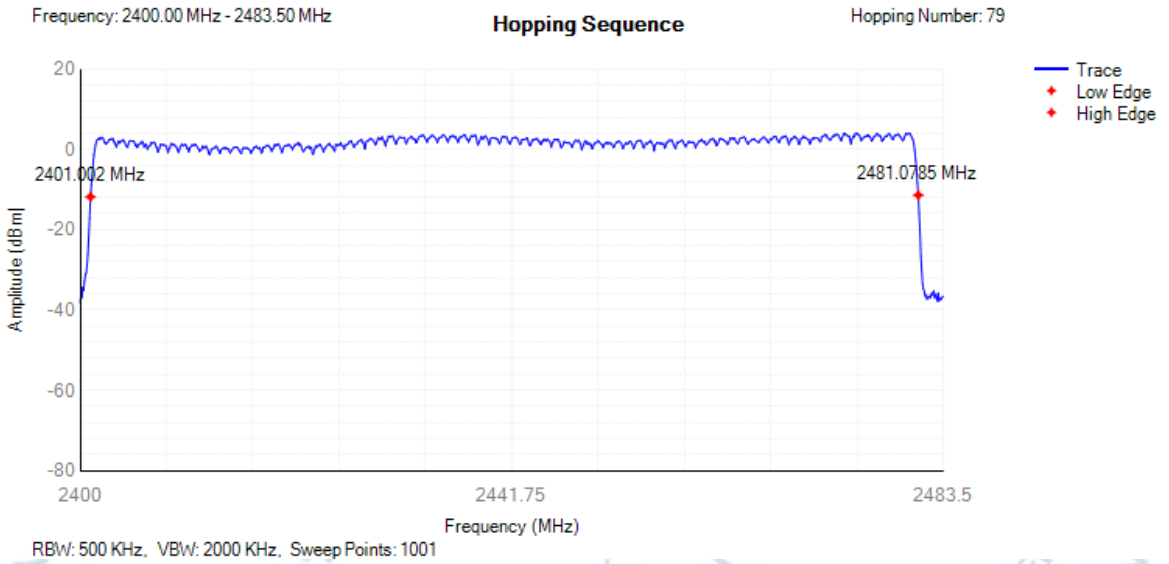
Hopping Seq. NVNT 1-DH5 2441MHz




Hopping Seq. NVNT 2-DH5 2441MHz

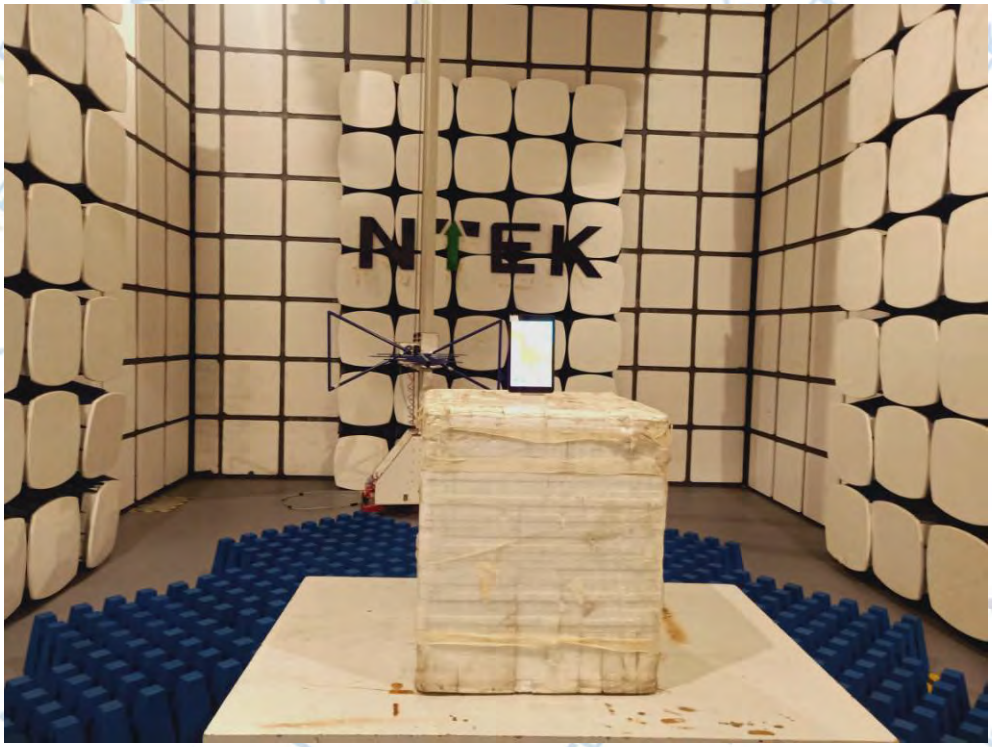


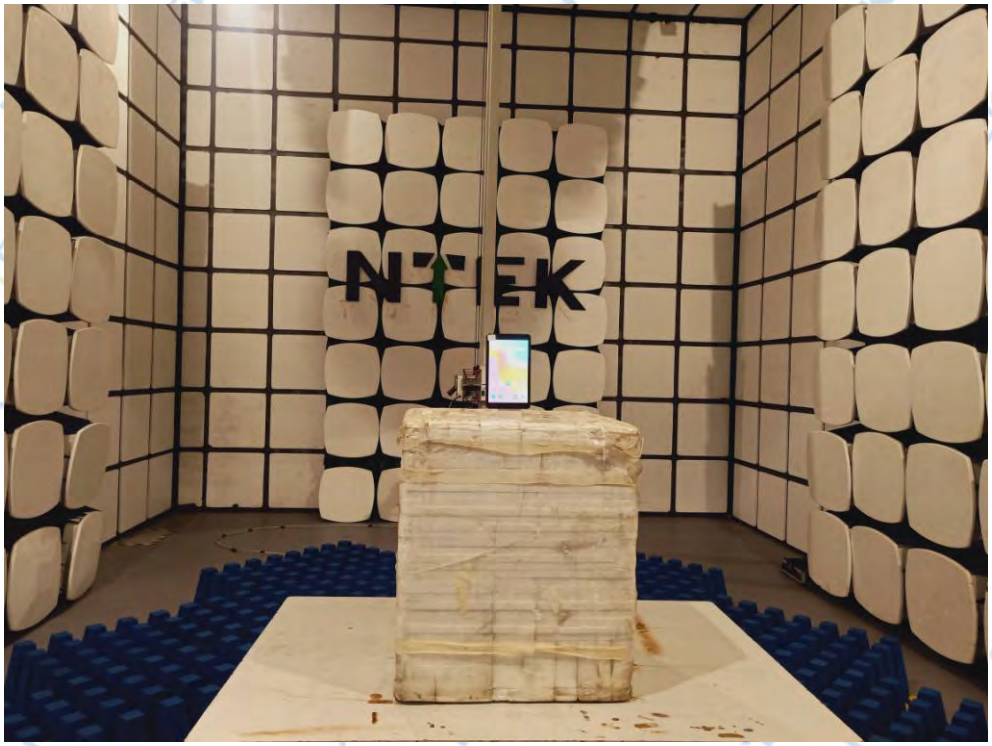
Hopping Seq. NVNT 3-DH5 2441MHz



## 12. EUT TEST PHOTO

### SPURIOUS EMISSIONS MEASUREMENT PHOTOS





END OF REPORT