



RADIO TEST REPORT

ETSI EN 300 328 V2.2.2 (2019-07)

Product : smartphone

Trade Mark : Blackview

Model Name : N6000

Family Model : N/A

Report No. : S23051103003001

Prepared for

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Prepared by

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TEST RESULT CERTIFICATION

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Product description

Product name : smartphone
Trademark : Blackview
Model Name : N6000
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.

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Test Sample Number S230511030005

Date of Test

Date (s) of performance of tests May 11, 2023 ~ Jun 05, 2023

Date of Issue..... Jun 05, 2023

Test Result..... **Pass**

Testing Engineer : Mukzi Lee
 (Mukzi Lee)

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 (Alex Li)

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1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	smartphone	
Trade Mark	Blackview	
Model Name.	N6000	
Family Model	N/A	
Model Difference	N/A	
Product Description	The EUT is smartphone	
	Operation Frequency:	2402~2480 MHz
	Modulatin Type:	GFSK,π/4-DQPSK,8-DPSK
	Modulation Technology:	FHSS
	Adaptive/non-adaptive	Adaptive equipment
	Receiver categories	2
	Number Of Channel	79CH
	Antenna Designation:	PIFA Antenna
	Antenn a Gain(Peak)	1.26 dBi
	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: QZ-01800EA00 Input: 100-240V~50/60Hz 0.5A Output: 5.0V---3.0A or 7.0V---2.0A or 9.0V---2.0A or 12.0V---1.5A (18.0W)	
Battery	DC 3.87V, 3880mAh, 15.01Wh	
Rating	DC 3.87V from battery or DC 5V from adapter	
I/O Ports	Refer to users manual	
Hardware Version	TE305_MAIN_PCB_V1.1	
Software Version	N6000_EEA_TE305_V1.0_01	

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, π/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: 328.548s 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)

$\pi/4$ -DQPSK

- Hopping Frequency Separation (only for FHSS equipment)

8-DPSK

- 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

8-DPSK

- Receiver spurious emissions

$\pi/4$ -DQPSK

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: 1.174MHz
 - 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°C~35°C
 Other (please specify if applicable):

Extreme operating conditions:

Operating temperature range: Minimum: -10°C Maximum 40°C
 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: 1.26 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	1.26	4.79	
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 3.87V

In case of DC, indicate the type of power source

- Internal Power Supply
- External Power Supply or AC/DC adapter: DC 5V
- Battery: DC 3.87V
- 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 =0.93%

1.3 TEST CONDITIONS

	Normal Test Conditions	Extreme Test Conditions
Temperature	15°C - 35°C	-10°C ~ 40°C Note: (1)
Relative Humidity	20% - 75%	N/A
Supply Voltage	DC 3.87V	/

Note:

- (1) The HT 40°C and LT -10°C was declared 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	$\pi/4$ -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	Model/Type No.	Series No.	Note
E-1	smartphone	N6000	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	2023.03.27	2024.03.26	1 year
Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.16	2024.03.15	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	SCHWARZB ECK	BBHA 9120 D	2816	2023.01.12	2024.01.11	1 year
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.11.07	2023.11.06	1 year
Test Cable (30MHz-1GHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
Test Cable (1-18GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
Pre-Amplifier	EMC	EMC051835SE	980246	2022.06.17	2023.06.16	1 year
Spectrum Analyzer	Agilent	E4407B	MY45108040	2023.03.31	2024.03.30	1 year
Filter	TRILTHIC	2400MHz	29	2023.03.27	2026.03.26	3 year
Attenuator	Weinschel	33-10-33	AR4010	2023.03.27	2026.03.26	3 year
Attenuator	Weinschel	24-20-34	BP4485	2023.03.27	2026.03.26	3 year
MXA Signal Analyzer	Agilent	N9020A	MY49100060	2022.06.17	2023.06.16	1 year
ESG VETCTOR SIGNAL GENERAROR	Agilent	E4438C	MY45093347	2023.03.21	2024.03.20	1 year
Power Splitter	Mini-Circuits/ USA	ZN2PD-63-S+	SF025101428	2023.03.27	2026.03.26	3 year
Coupler	Mini-Circuits	ZADC-10-63-S +	SF794101410	2023.03.27	2026.03.26	3 year
Directional Coupler	MCLI/USA	CB11-20	0D2L51502	2020.07.17	2023.07.16	3 year
Attenuator	Agilent	8495B	MY42147029	2023.03.27	2026.03.26	3 year
Power Meter	DARE	RPR3006W	15I00041SNO 84	2022.06.17	2023.06.16	1 year
MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2022.06.16	2023.06.15	1 year
Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	2022.06.16	2023.06.15	1 year
temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

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.

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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	$\pm 5\%$
2	RF output Power,conducted	$\pm 1.5\text{dB}$
3	Power Spectral Density, conducted	$\pm 3\text{dB}$
4	Unwanted emissions, conducted	$\pm 3\text{dB}$
5	All emissions,radiated	$\pm 6\text{dB}$
6	Temperature	$\pm 3^{\circ}\text{C}$
7	Humidity	$\pm 3\%$
9	Time	$\pm 5\%$

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
<input type="checkbox"/> 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.
<input checked="" type="checkbox"/> Adaptive frequency hopping systems	equal to or less than 20 dBm.

3.2 TEST PROCEDURE

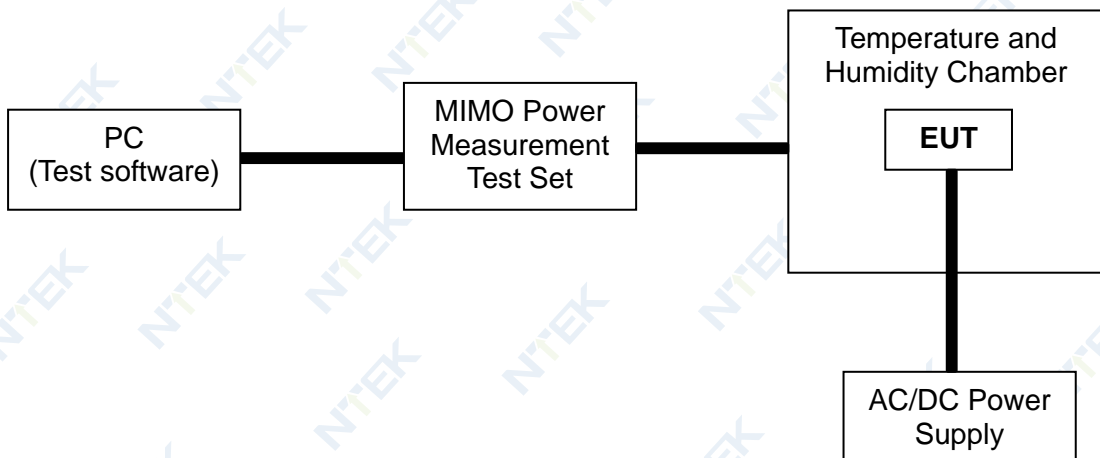
Refer to chapter 5.4.2.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement	
<input checked="" type="checkbox"/> Conducted measurement	<input type="checkbox"/> Radiated measurement

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



3.5 TEST RESULTS

EUT :	smartphone	Model Name :	N6000
Temperature :	20°C	Relative Humidity :	55 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	BT-GFSK/ π /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
<input type="checkbox"/> Non-adaptive frequency hopping systems	≤ 15 ms[15 ms * the minimum number of hopping frequencies (N)]
<input checked="" type="checkbox"/> Adaptive frequency hopping systems	≤ 400 ms in [400 ms * the minimum number of hopping frequencies (N)]
MINIMUM FREQUENCY OCCUPATION TIME	
Condition	Limit
<input type="checkbox"/> 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.
<input checked="" type="checkbox"/> Adaptive frequency hopping systems	
HOPPING SEQUENCE (S)	
Condition	Limit
<input type="checkbox"/> Non-adaptive frequency hopping systems	≥15 hopping frequencies or 15/minimum
<input checked="" type="checkbox"/> 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	
<input checked="" type="checkbox"/> Conducted measurement	<input type="checkbox"/> 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 maximum 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 :	smartphone	Model Name :	N6000
Temperature :	26°C	Relative Humidity	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	BT-GFSK/ π /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	
<input checked="" type="checkbox"/> Conducted measurement	<input type="checkbox"/> 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 :	smartphone	Model Name :	N6000
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	BT-GFSK/π/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.

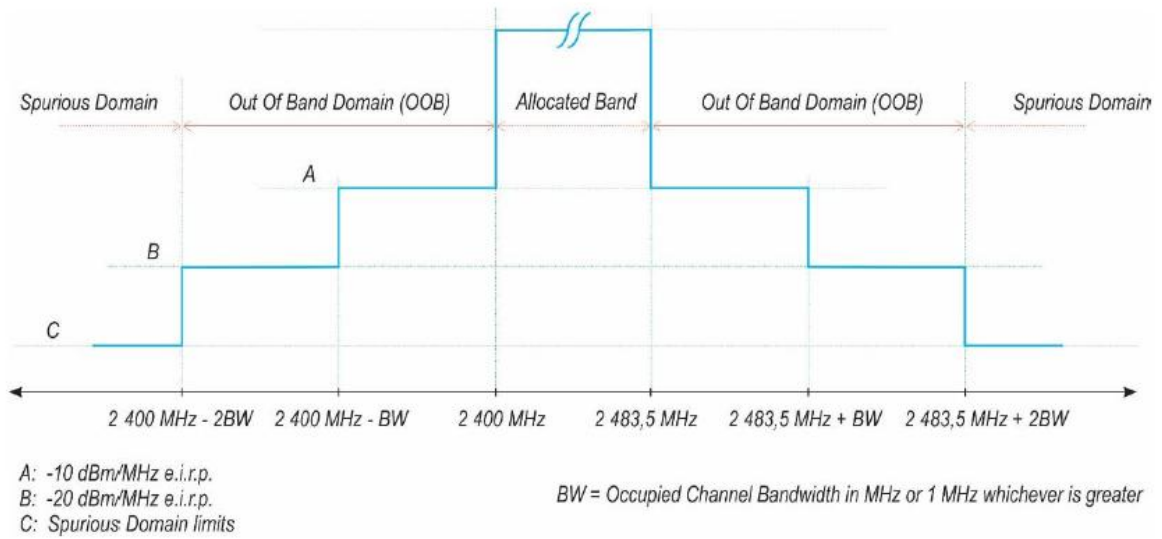


Figure 1: Transmit mask

6.2 TEST PROCEDURE

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

Measurement	
<input checked="" type="checkbox"/> Conducted measurement	<input type="checkbox"/> Radiated measurement

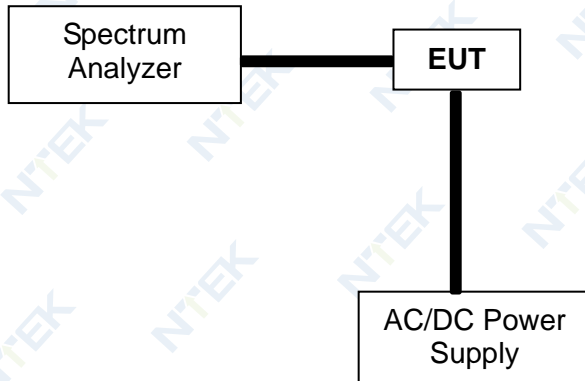
The setting of the Spectrum Analyzer

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 ETSI 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 :	smartphone	Model Name :	N6000
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	BT-GFSK/π/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
<input type="checkbox"/> 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.
<input checked="" type="checkbox"/> 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	
<input checked="" type="checkbox"/> Conducted measurement	<input type="checkbox"/> 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 :	smartphone	Model Name :	N6000
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	BT-GFSK/ π /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	
<input checked="" type="checkbox"/> Conducted measurement	<input checked="" type="checkbox"/> Radiated measurement

The setting of the Spectrum Analyzer

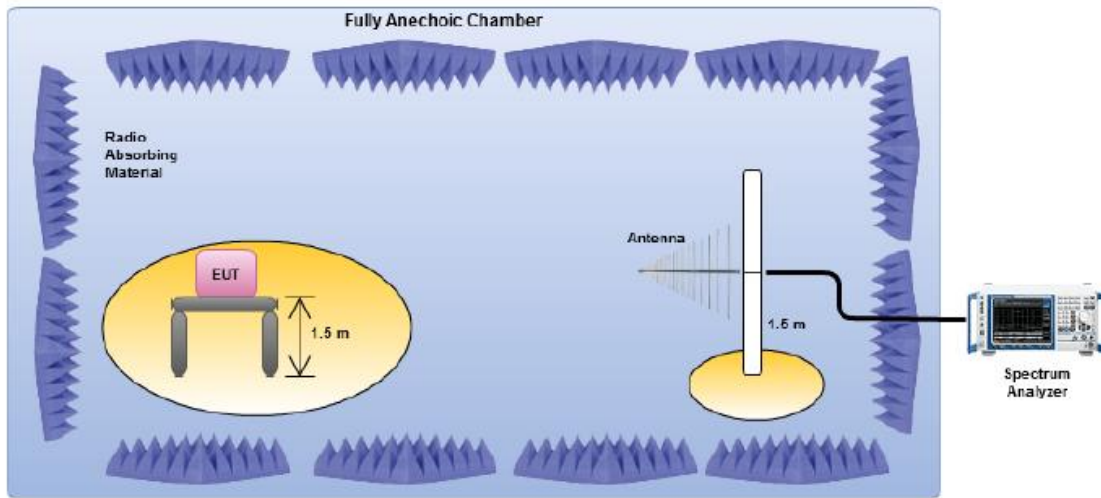
RBW	100K(<1GHz) / 1M(>1GHz)
VBW	300K(<1GHz) / 3M(>1GHz)

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 :	smartphone	Model Name :	N6000
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	DC 3.87V
Test Mode :	BT-GFSK (CH00)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	35.085	-75.54	10.85	-64.69	-36	-28.69	peak
V	107.559	-72.21	11.35	-60.86	-54	-6.86	peak
V	185.111	-76.06	11.22	-64.84	-54	-10.84	peak
V	320.917	-76.55	11.26	-65.29	-36	-29.29	peak
V	649.398	-74.63	9.58	-65.05	-54	-11.05	peak
H	35.969	-77.29	10.55	-66.74	-36	-30.74	peak
H	90.802	-71.62	10.31	-61.31	-54	-7.31	peak
H	220.892	-69.25	10.92	-58.33	-54	-4.33	peak
H	297.537	-71.02	11.20	-59.82	-36	-23.82	peak
H	660.101	-72.52	11.07	-61.45	-54	-7.45	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 :	smartphone	Model Name :	N6000
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	DC 3.87V
Test Mode :	GFSK (CH00/CH39/CH78)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
operation frequency:2402							
V	2539.723	-75.98	10.32	-65.66	-30	-35.66	peak
V	5624.72	-68.05	9.81	-58.24	-30	-28.24	peak
V	2768.061	-75.2	10.99	-64.21	-30	-34.21	peak
V	4577.66	-70.22	9.95	-60.27	-30	-30.27	peak
H	2146.076	-71.74	10.55	-61.19	-30	-31.19	peak
H	4525.241	-72.69	11.25	-61.44	-30	-31.44	peak
H	2614.871	-71.35	10.24	-61.11	-30	-31.11	peak
H	3331.177	-67.54	10.47	-57.07	-30	-27.07	peak
operation frequency:2441							
V	2412.396	-74.62	10.23	-64.39	-30	-34.39	peak
V	4787.834	-76.21	10.30	-65.91	-30	-35.91	peak
V	2574.024	-77.5	10.51	-66.99	-30	-36.99	peak
V	4065.078	-69.98	10.88	-59.10	-30	-29.10	peak
H	2897.317	-67.72	9.88	-57.84	-30	-27.84	peak
H	4052.825	-67.12	9.64	-57.48	-30	-27.48	peak
H	2945.036	-67.75	9.71	-58.04	-30	-28.04	peak
H	5747.591	-70.74	11.43	-59.31	-30	-29.31	peak
operation frequency:2480							
V	2578.538	-68.62	10.15	-58.47	-30	-28.47	peak
V	5942.556	-72.62	9.78	-62.84	-30	-32.84	peak
V	2176.387	-75.47	10.81	-64.66	-30	-34.66	peak
V	5774.549	-77.38	10.95	-66.43	-30	-36.43	peak
H	2329.437	-77.09	11.46	-65.63	-30	-35.63	peak
H	4038.938	-74.81	10.38	-64.43	-30	-34.43	peak
H	2730.15	-68.15	10.62	-57.53	-30	-27.53	peak
H	4653.273	-71.66	10.55	-61.11	-30	-31.11	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	
<input checked="" type="checkbox"/> Conducted measurement	<input checked="" type="checkbox"/> Radiated measurement

The setting of the Spectrum Analyzer

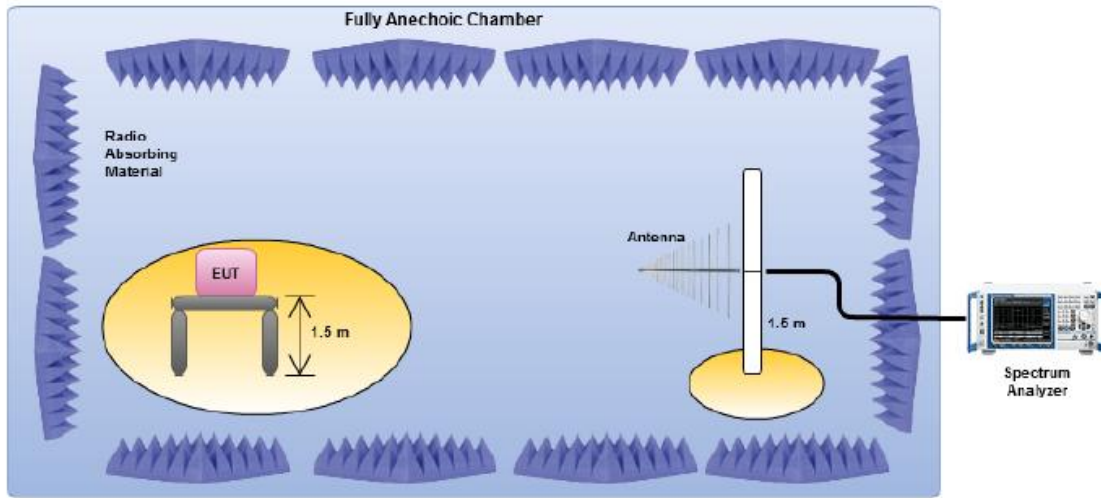
RBW	100K(<1GHz) / 1M(>1GHz)
VBW	300K(<1GHz) / 3M(>1GHz)

9.3 DEVIATION FROM TEST STANDARD

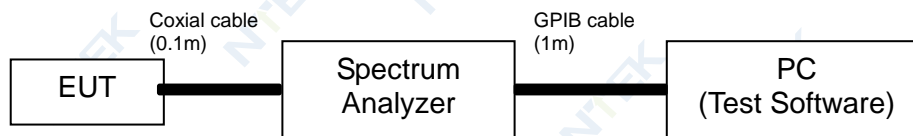
No deviation

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 :	smartphone	Model Name :	N6000
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	DC 3.87V
Test Mode :	GFSK(CH00)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	38.913	-81.45	12.31	-69.14	-57	-12.14	peak
V	95.78	-81.91	16.22	-65.69	-57	-8.69	peak
V	188.475	-78.7	14.14	-64.56	-57	-7.56	peak
V	294.857	-82.08	17.09	-64.99	-57	-7.99	peak
V	526.869	-84.14	15.59	-68.55	-57	-11.55	peak
H	39.163	-82.64	14.72	-67.92	-57	-10.92	peak
H	107.955	-82.38	17.90	-64.48	-57	-7.48	peak
H	195.669	-80.52	16.71	-63.81	-57	-6.81	peak
H	452.895	-84.47	15.90	-68.57	-57	-11.57	peak
H	509.805	-83.41	17.59	-65.82	-57	-8.82	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 :	smartphone	Model Name :	N6000
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	DC 3.87V
Test Mode :	GFSK (CH00)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	2222.927	-77.86	10.50	-67.36	-47	-20.36	peak
V	5396.673	-83.31	10.21	-73.10	-47	-26.10	peak
V	2431.556	-81.24	10.61	-70.63	-47	-23.63	peak
V	4428.794	-84.43	16.95	-67.48	-47	-20.48	peak
H	2323.001	-83.26	10.35	-72.91	-47	-25.91	peak
H	4539.162	-84	11.31	-72.69	-47	-25.69	peak
H	2968.684	-79.04	6.81	-72.23	-47	-25.23	peak
H	4806.24	-81.15	15.11	-66.04	-47	-19.04	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	-34	CW
	2 504		
(-139 dBm + 10 × log ₁₀ (OCBW)) or -74 dBm whichever is less (see note 3)	2 300		
	2 330		
	2 360		
	2524		
	2584		
	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	-34	CW
	2 504		
	2 300		
	2 584		

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	-34	CW
	2 504		
	2 300		
	2 584		

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

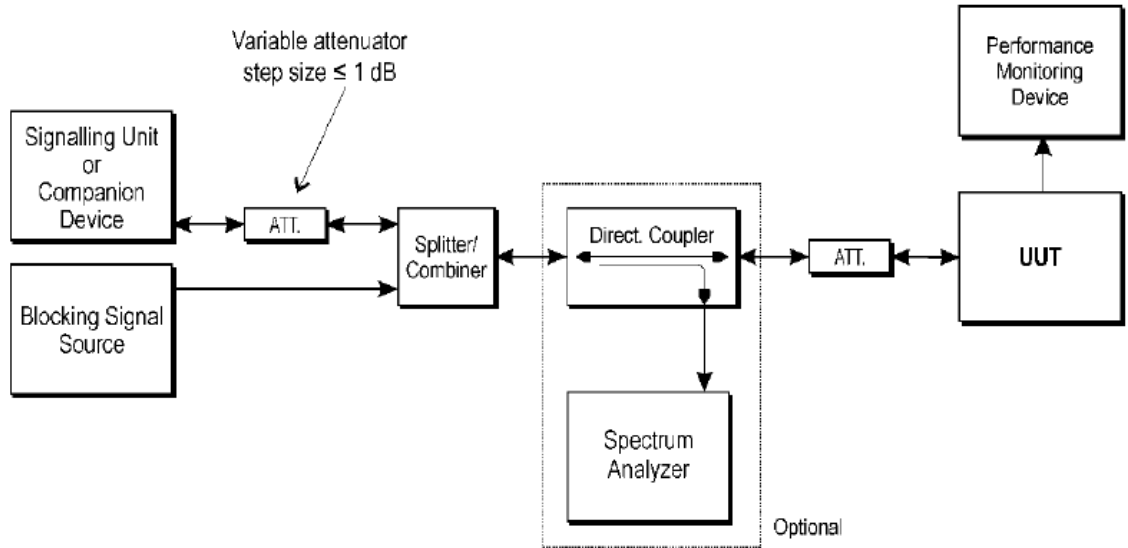
Refer to chapter 5.4.11.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement	
<input checked="" type="checkbox"/> Conducted measurement	<input type="checkbox"/> Radiated measurement

10.4 DEVIATION FROM TEST STANDARD

No deviation

10.5 TEST SETUP



10.6 TEST RESULTS

EUT :	smartphone	Model Name :	N6000
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	DC 3.87V
Test Mode :	GFSK Hopping mode (RX)		

CH00

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 %
-70.17	2 380	-34	0.63%	≤10
	2 504		0.52%	
	2 300		0.71%	≤10
	2 584		0.26%	

CH78

receiver category 2

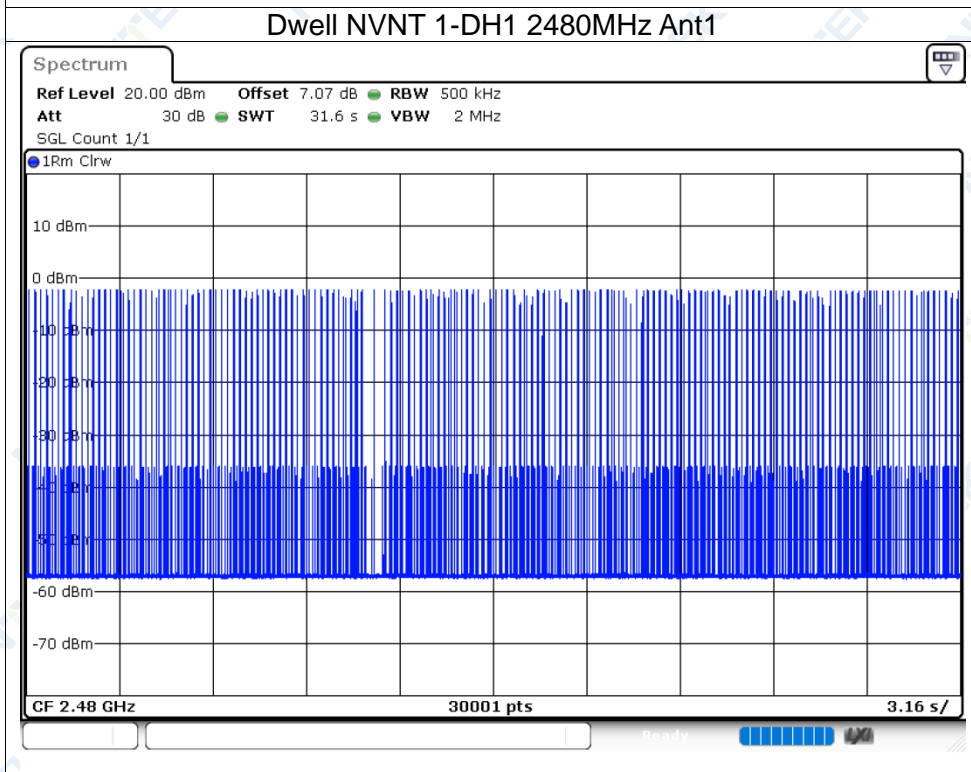
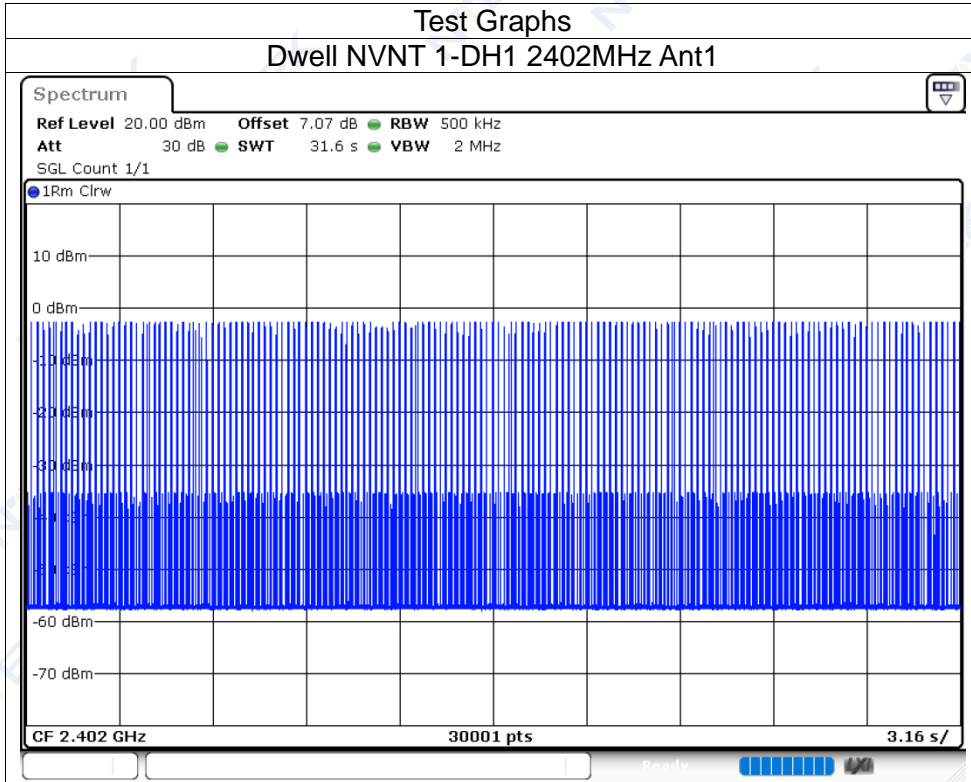
Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal Frequency (MHz)	Blocking signal power(dBm) (see note 3)	PER %	PER Limit %
-70.18	2 380	-34	0.52%	≤10
	2 504		0.33%	
	2 300		0.41%	≤10
	2 584		0.93%	

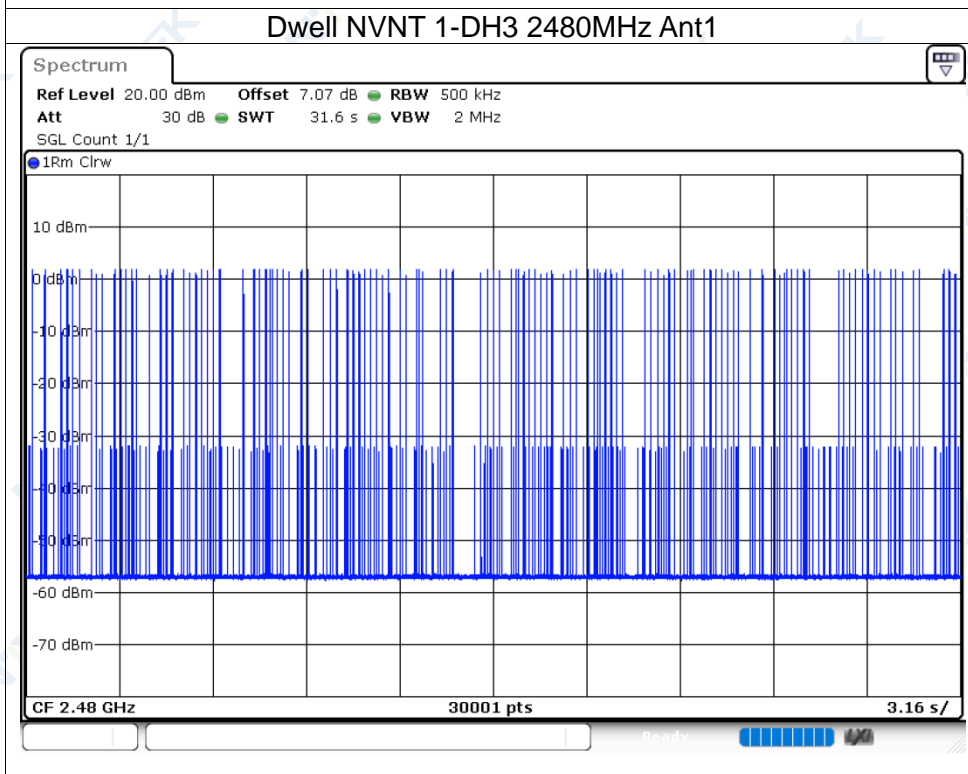
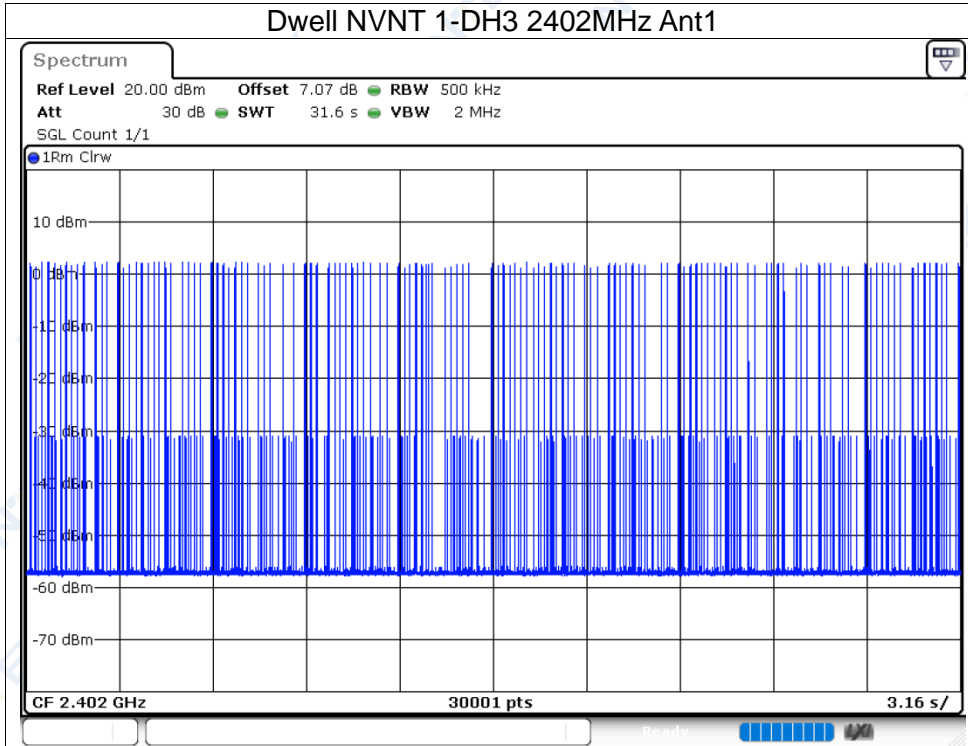
Note: (1) The above results were obtained from laboratory tests.

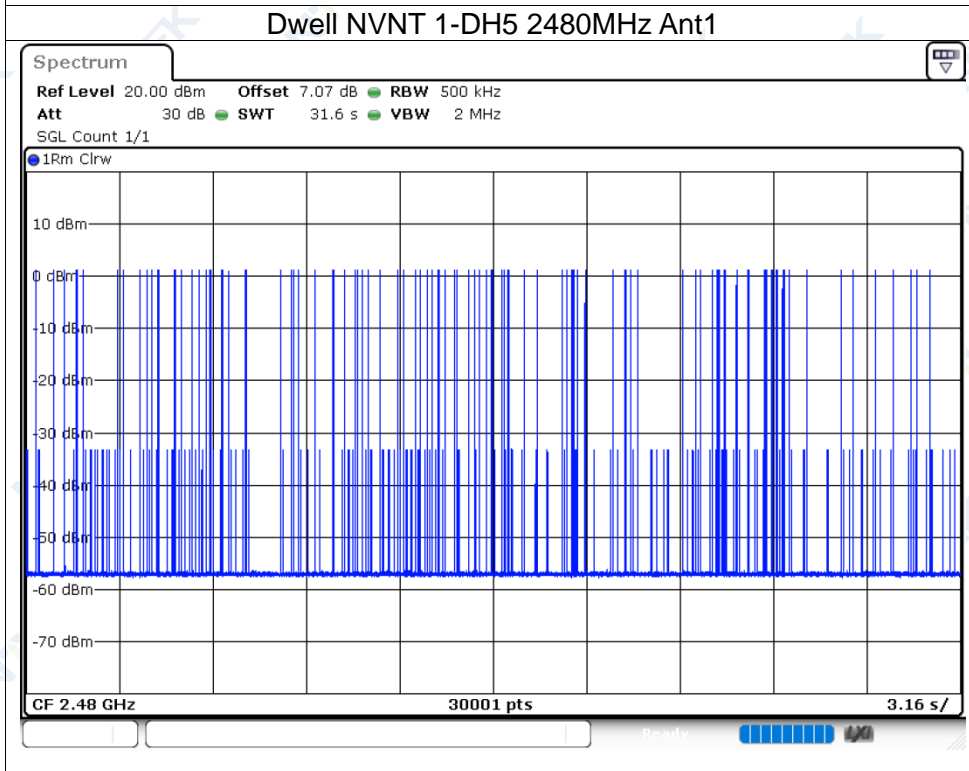
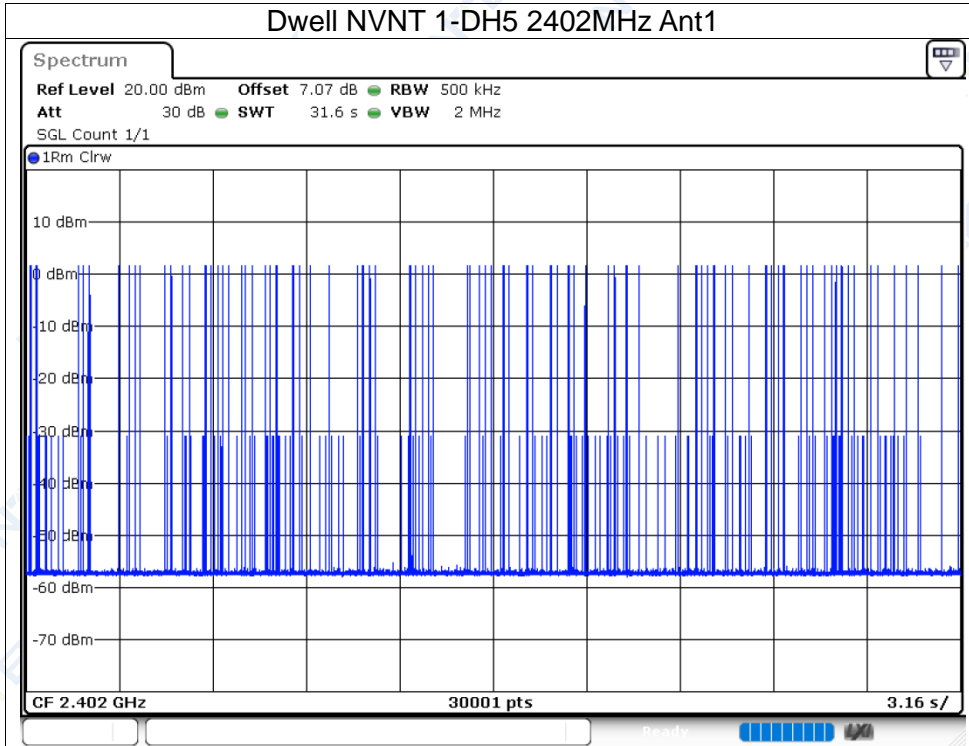
11. TEST RESULTS

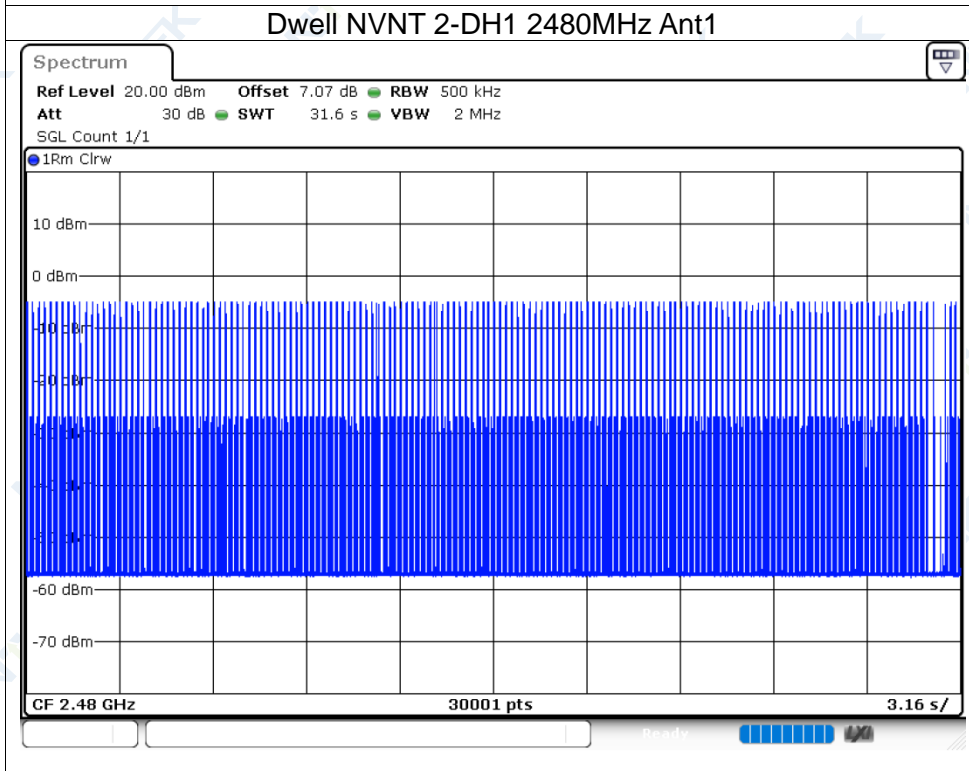
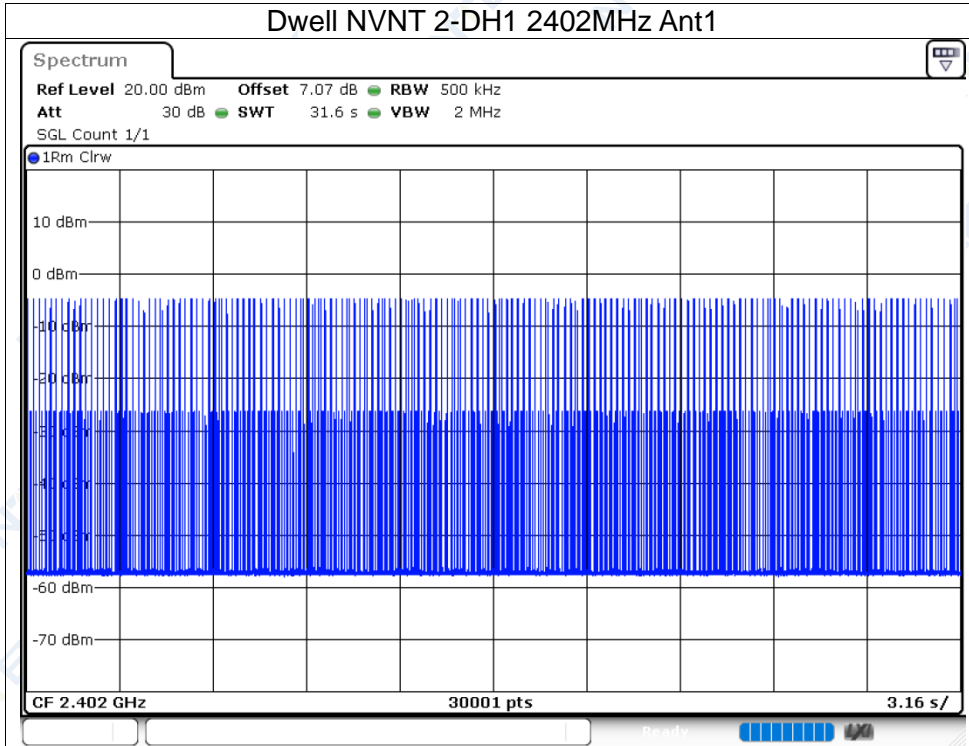
11.1 Accumulated Transmit Time

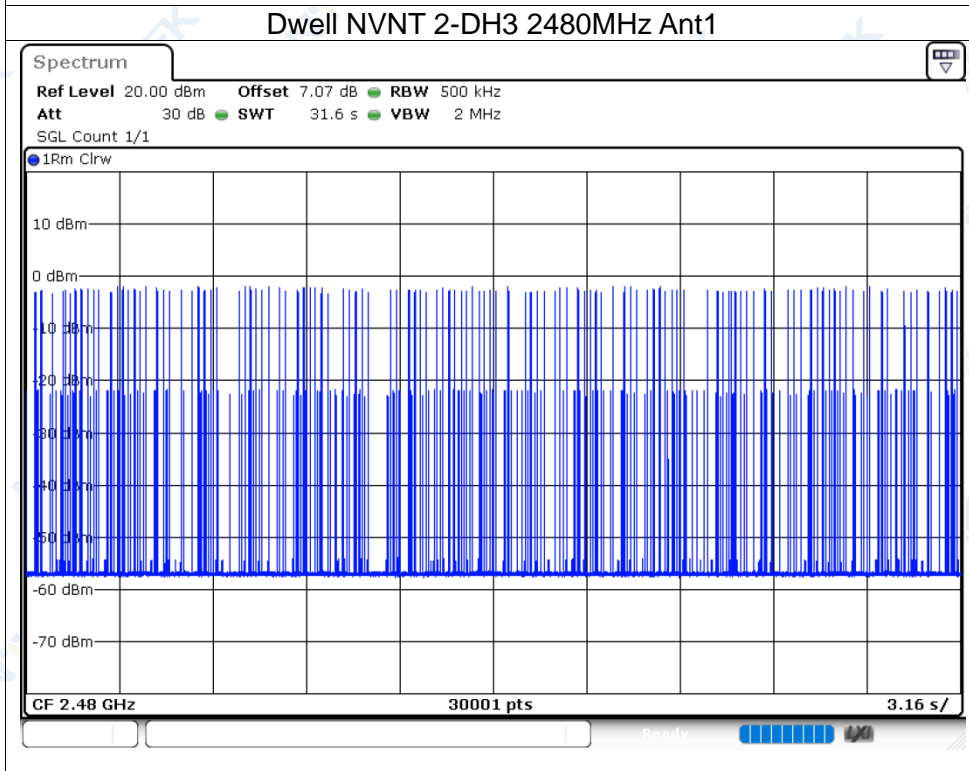
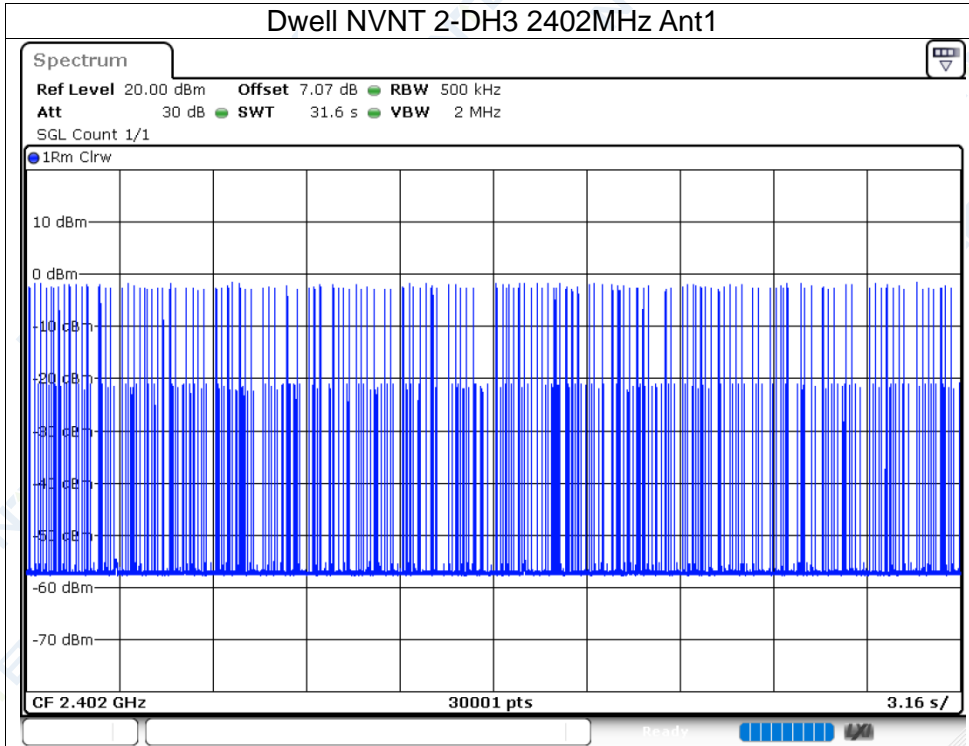
Condition	Mode	Frequency (MHz)	Antenna	Accumulated Transmit Time (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH1	2402	Ant1	119.25	400	31600	318	Pass
NVNT	1-DH1	2480	Ant1	117	400	31600	312	Pass
NVNT	1-DH3	2402	Ant1	287.056	400	31600	176	Pass
NVNT	1-DH3	2480	Ant1	260.8	400	31600	160	Pass
NVNT	1-DH5	2402	Ant1	305.174	400	31600	106	Pass
NVNT	1-DH5	2480	Ant1	287.9	400	31600	100	Pass
NVNT	2-DH1	2402	Ant1	122.177	400	31600	319	Pass
NVNT	2-DH1	2480	Ant1	120.645	400	31600	315	Pass
NVNT	2-DH3	2402	Ant1	287.76	400	31600	176	Pass
NVNT	2-DH3	2480	Ant1	269.61	400	31600	165	Pass
NVNT	2-DH5	2402	Ant1	322.784	400	31600	112	Pass
NVNT	2-DH5	2480	Ant1	328.548	400	31600	114	Pass
NVNT	3-DH1	2402	Ant1	120.645	400	31600	315	Pass
NVNT	3-DH1	2480	Ant1	121.858	400	31600	319	Pass
NVNT	3-DH3	2402	Ant1	235.296	400	31600	144	Pass
NVNT	3-DH3	2480	Ant1	251.636	400	31600	154	Pass
NVNT	3-DH5	2402	Ant1	282.73	400	31600	98	Pass
NVNT	3-DH5	2480	Ant1	297.052	400	31600	103	Pass

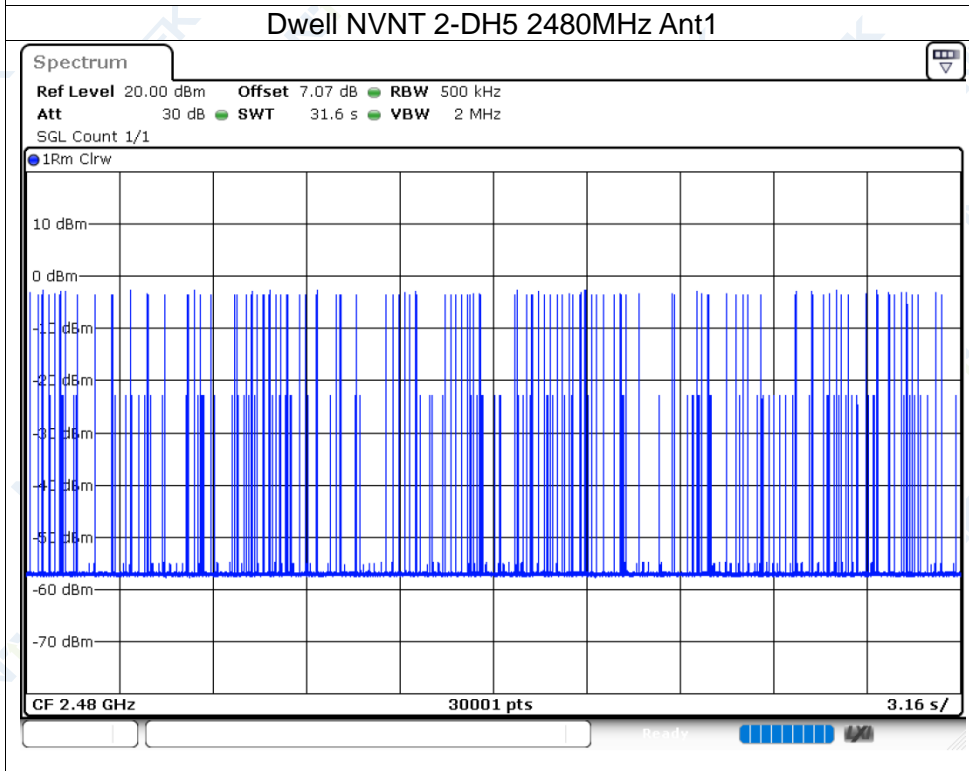
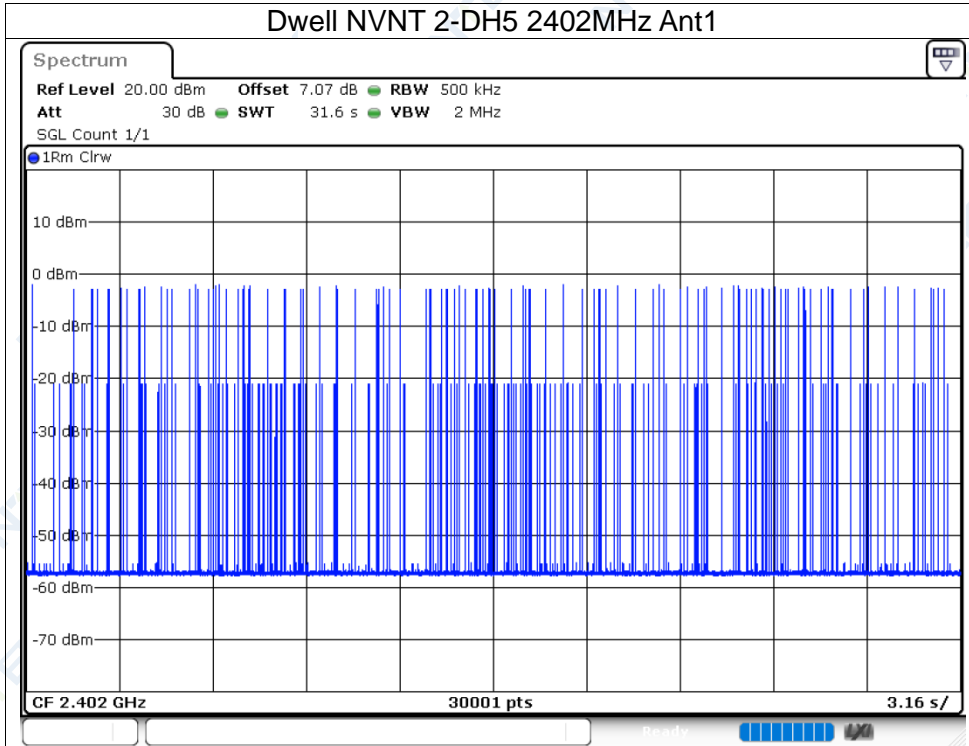


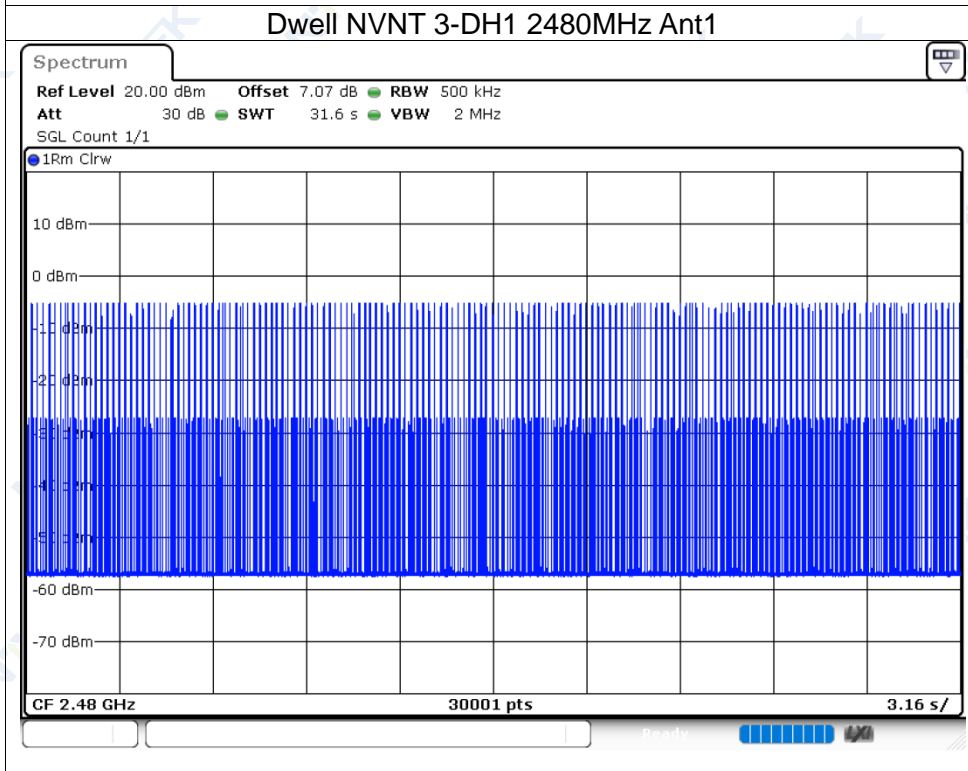
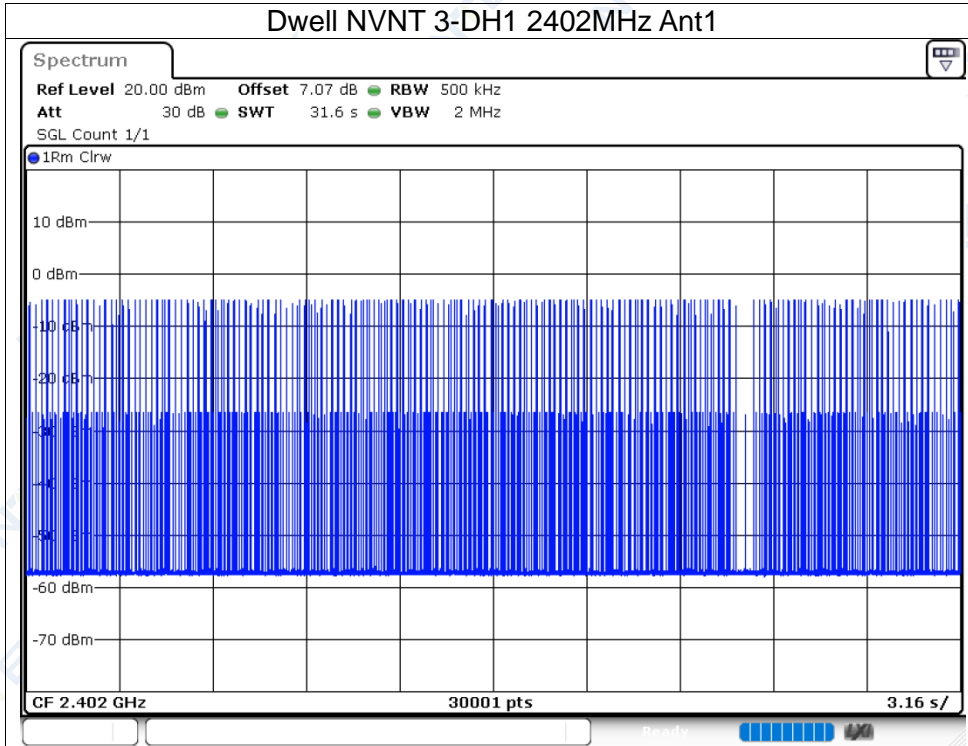


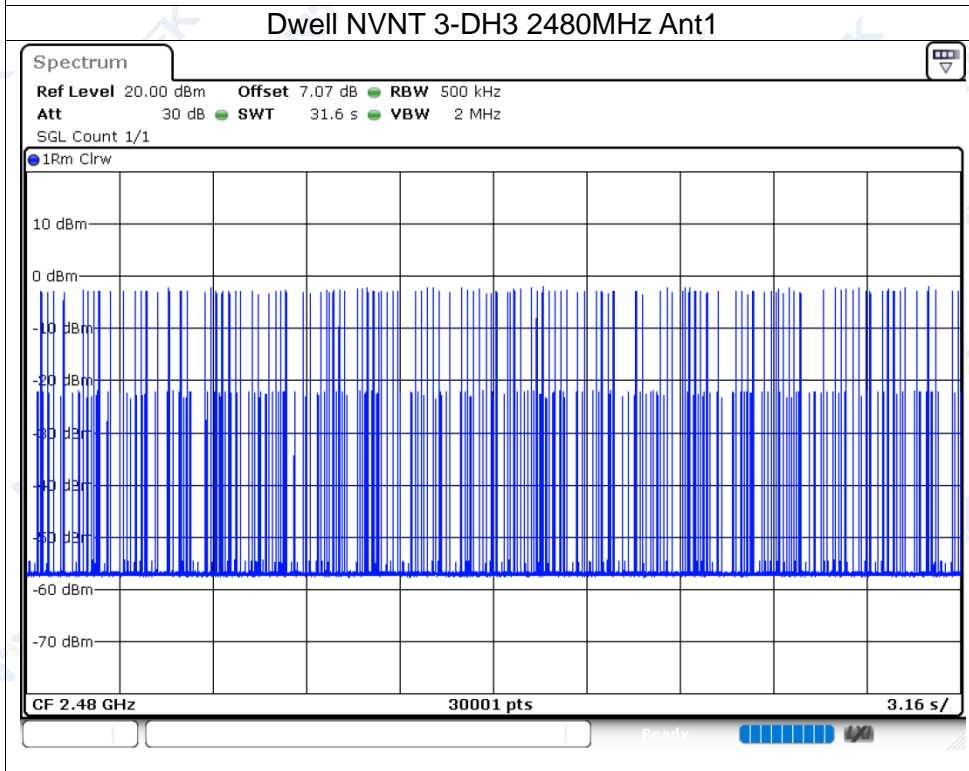
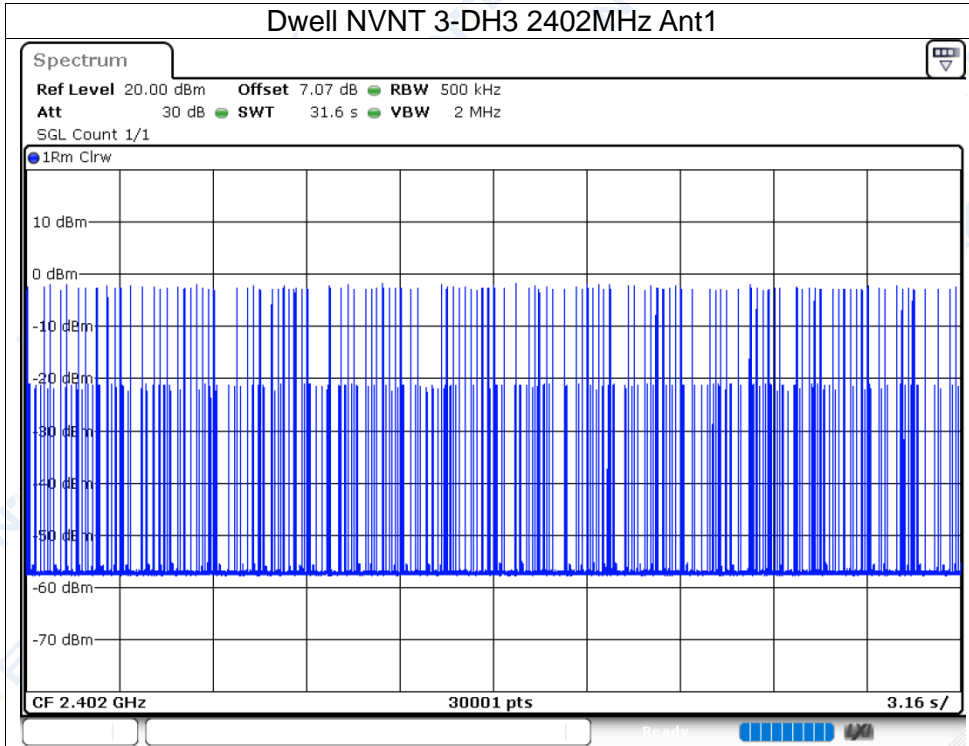


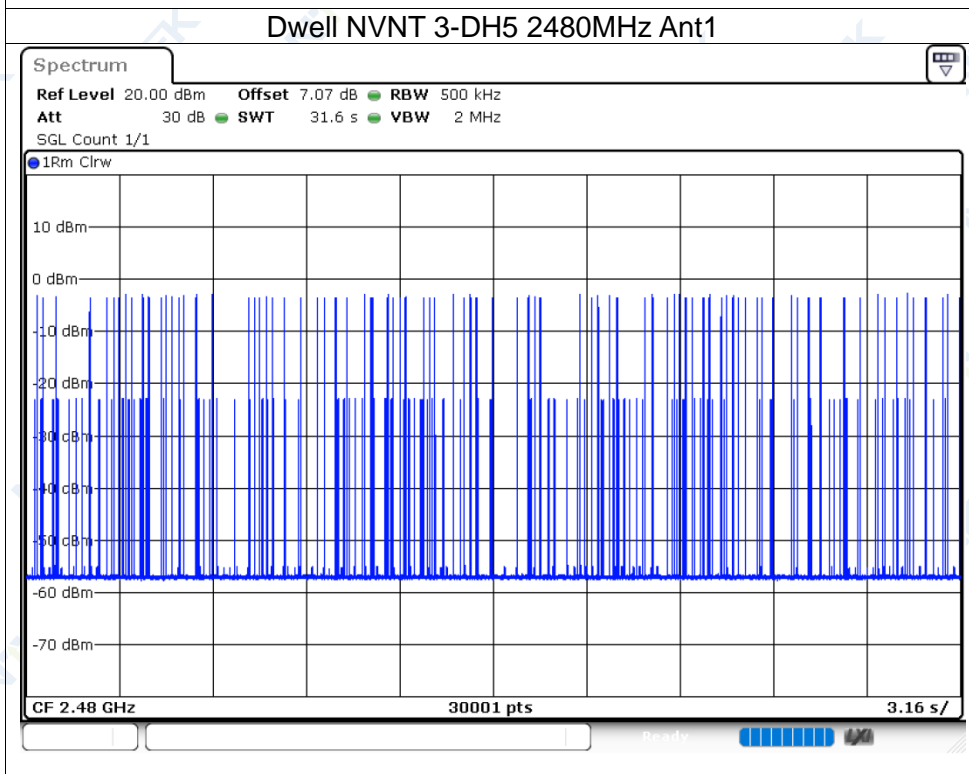
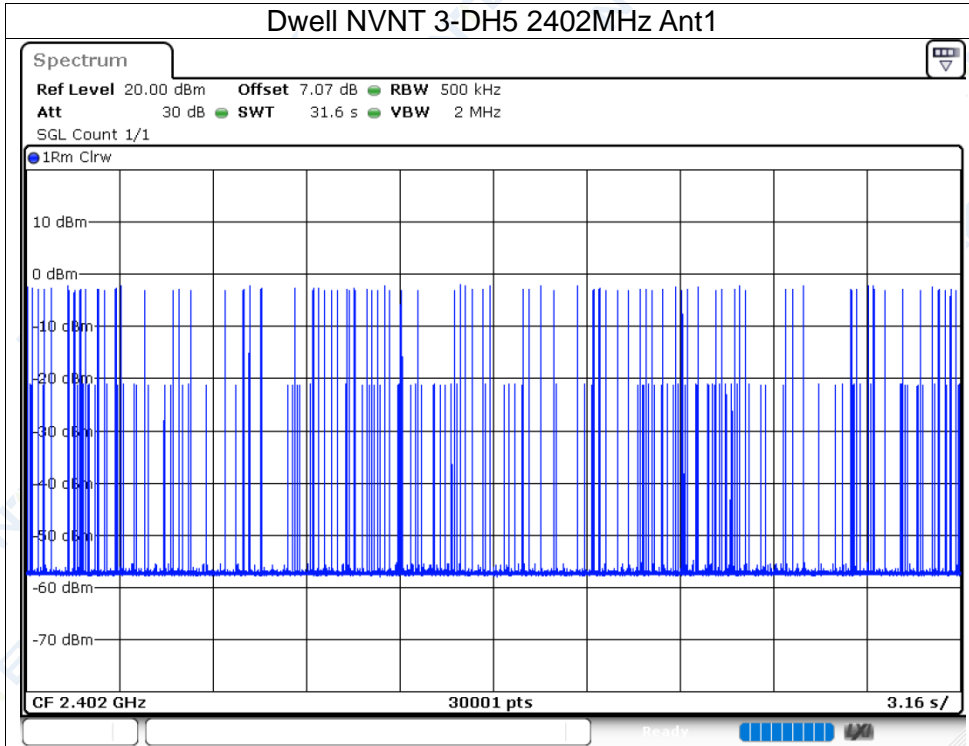






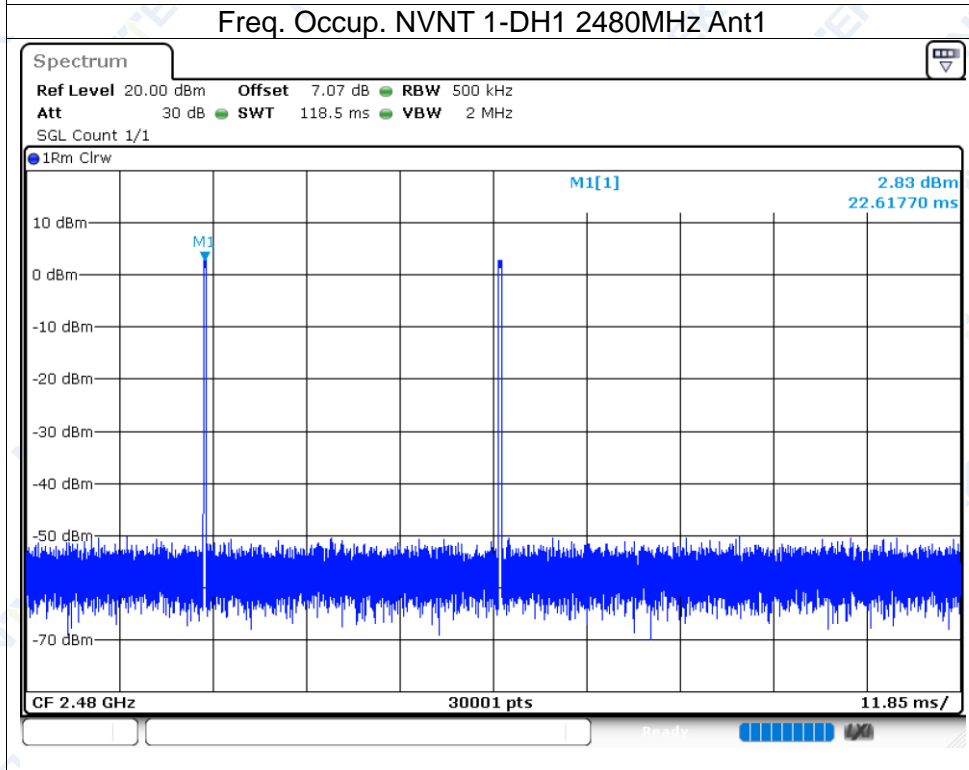
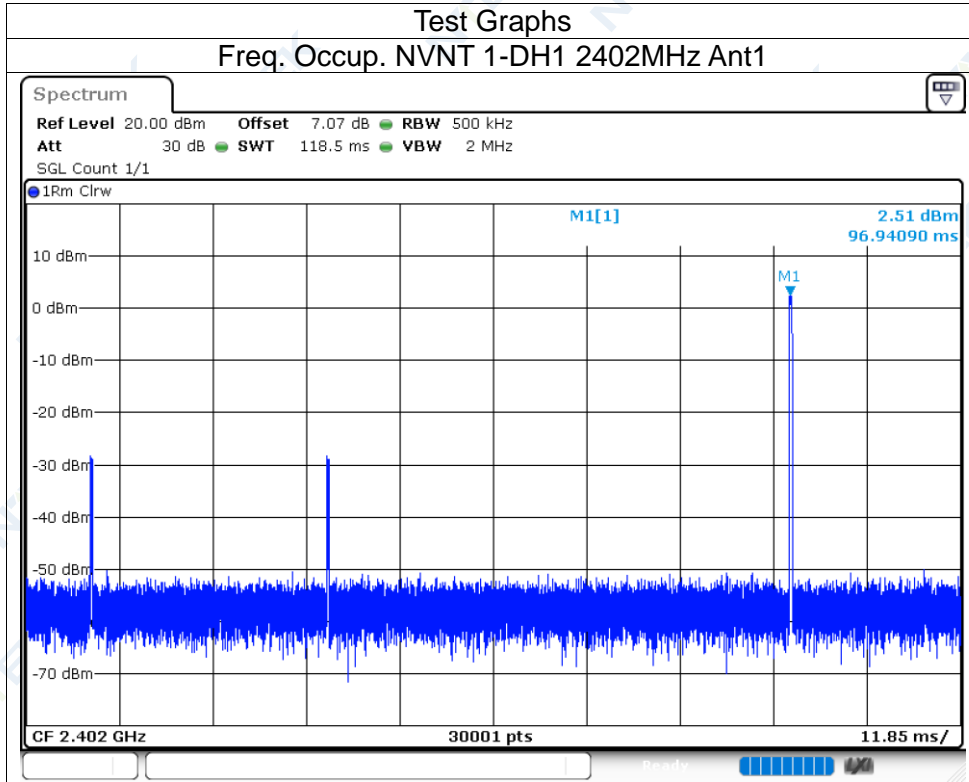


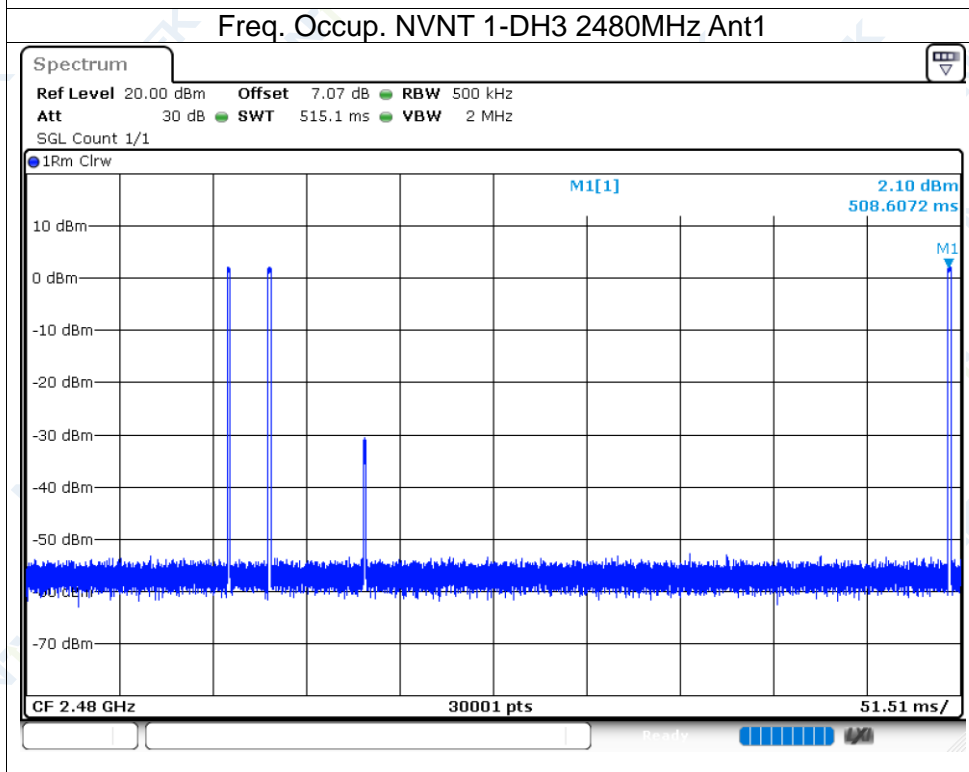
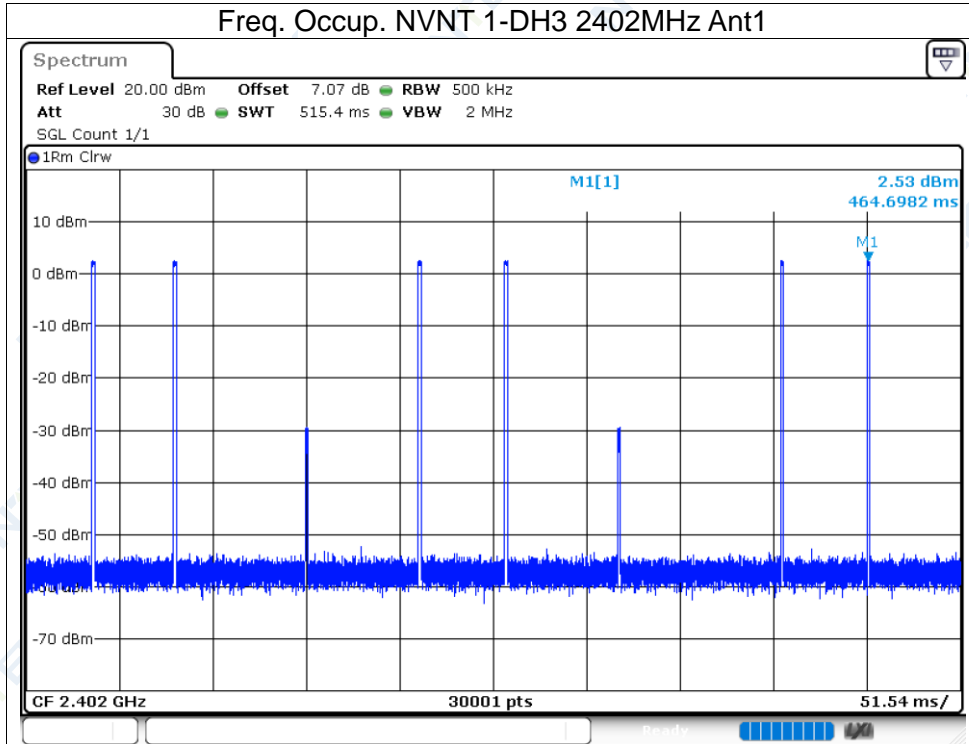


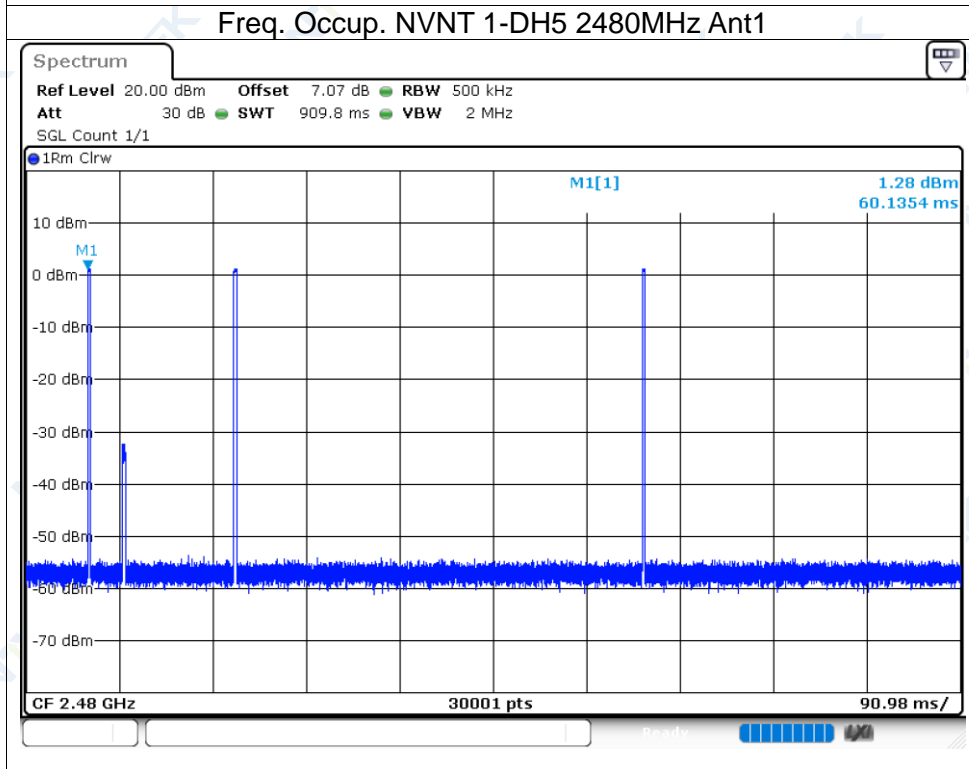
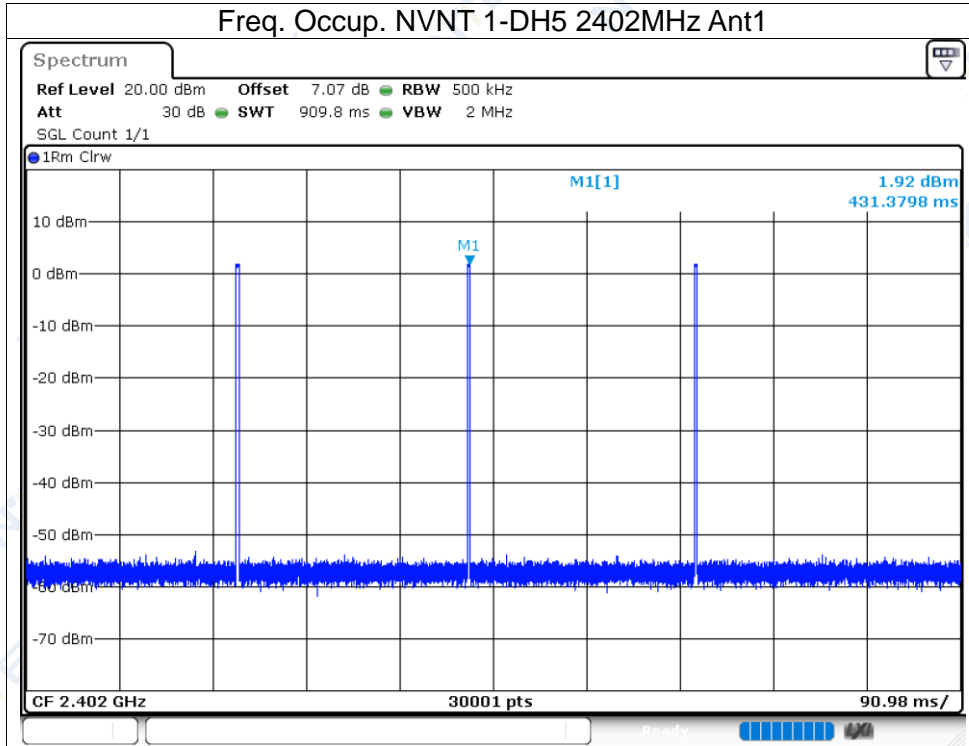


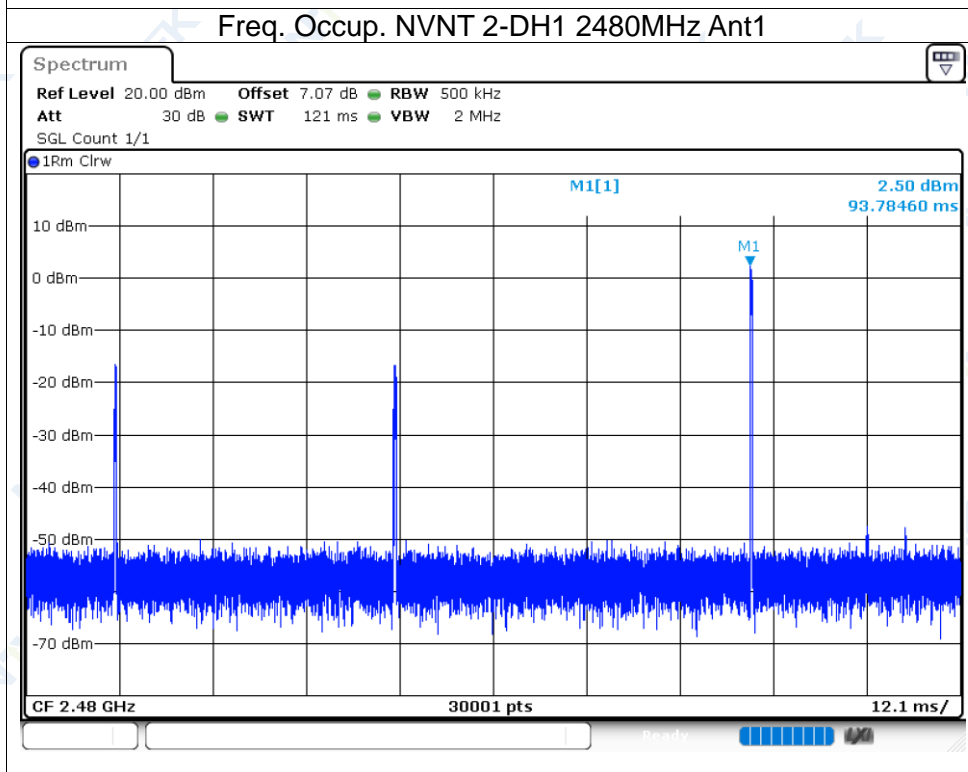
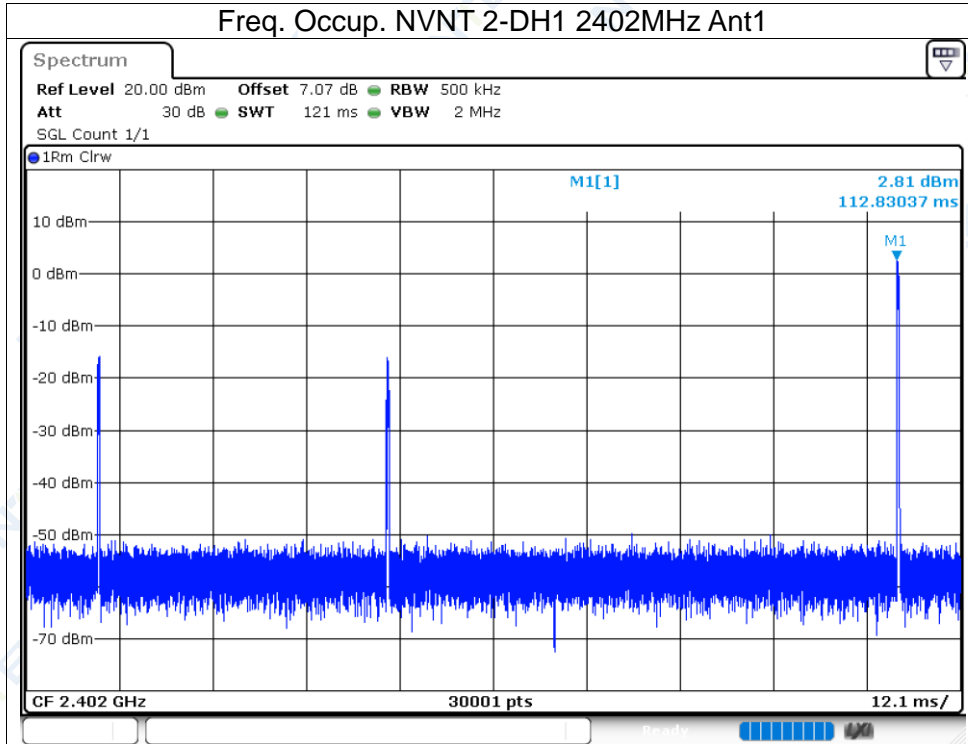
11.2 Frequency Occupation

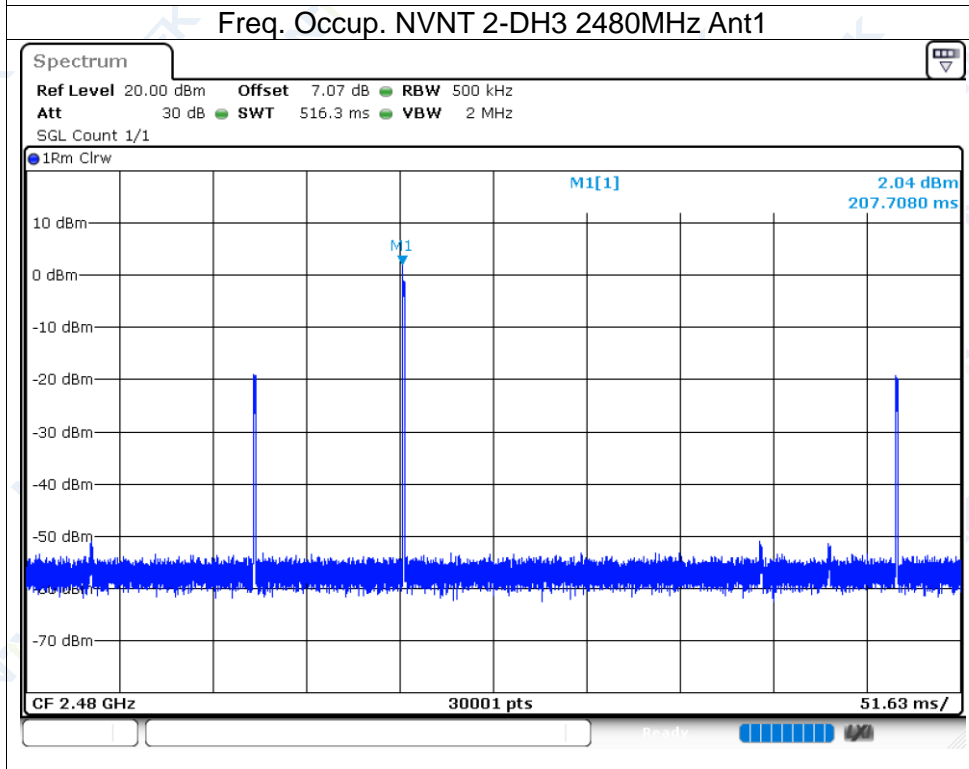
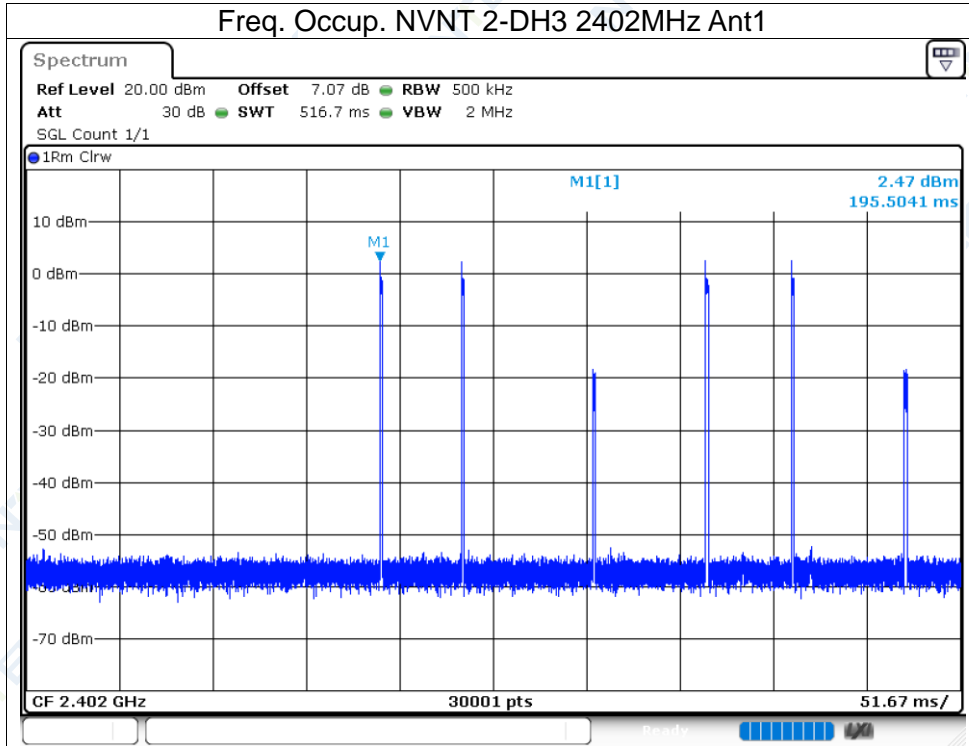
Condition	Mode	Frequency (MHz)	Antenna	Burst Number	Limit	Sweep Time (ms)	Verdict
NVNT	1-DH1	2402	Ant1	1	1	118.5	Pass
NVNT	1-DH1	2480	Ant1	2	1	118.5	Pass
NVNT	1-DH3	2402	Ant1	6	1	515.396	Pass
NVNT	1-DH3	2480	Ant1	3	1	515.08	Pass
NVNT	1-DH5	2402	Ant1	3	1	909.764	Pass
NVNT	1-DH5	2480	Ant1	3	1	909.764	Pass
NVNT	2-DH1	2402	Ant1	1	1	121.028	Pass
NVNT	2-DH1	2480	Ant1	1	1	121.028	Pass
NVNT	2-DH3	2402	Ant1	4	1	516.66	Pass
NVNT	2-DH3	2480	Ant1	1	1	516.344	Pass
NVNT	2-DH5	2402	Ant1	6	1	910.712	Pass
NVNT	2-DH5	2480	Ant1	2	1	910.712	Pass
NVNT	3-DH1	2402	Ant1	2	1	121.028	Pass
NVNT	3-DH1	2480	Ant1	2	1	120.712	Pass
NVNT	3-DH3	2402	Ant1	2	1	516.344	Pass
NVNT	3-DH3	2480	Ant1	5	1	516.344	Pass
NVNT	3-DH5	2402	Ant1	6	1	911.66	Pass
NVNT	3-DH5	2480	Ant1	1	1	911.344	Pass

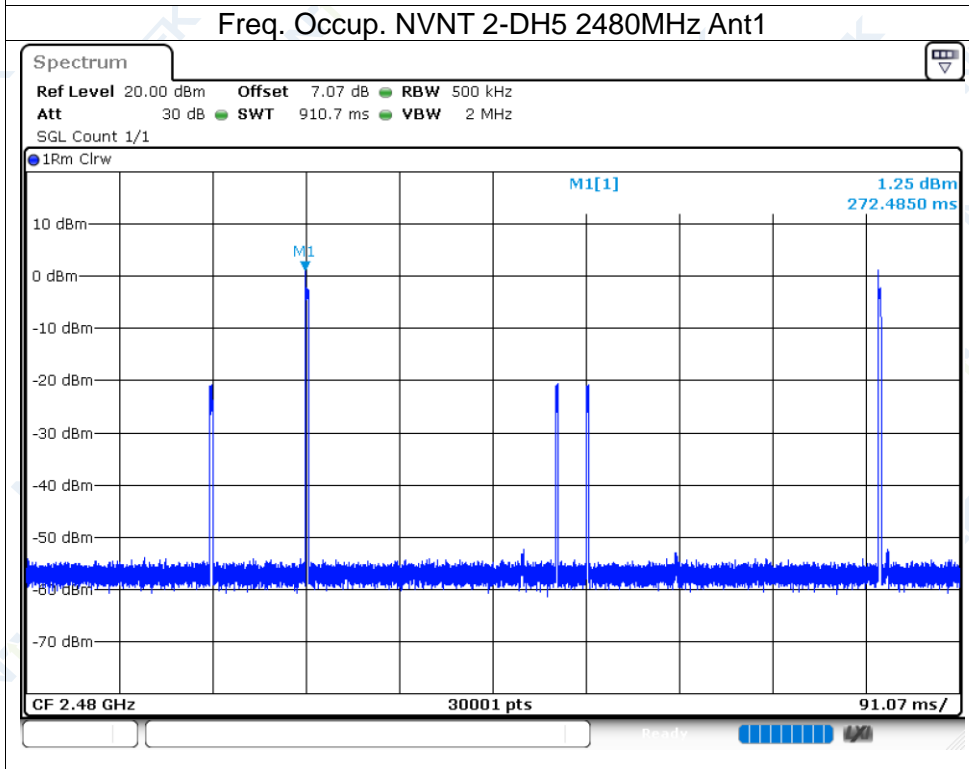
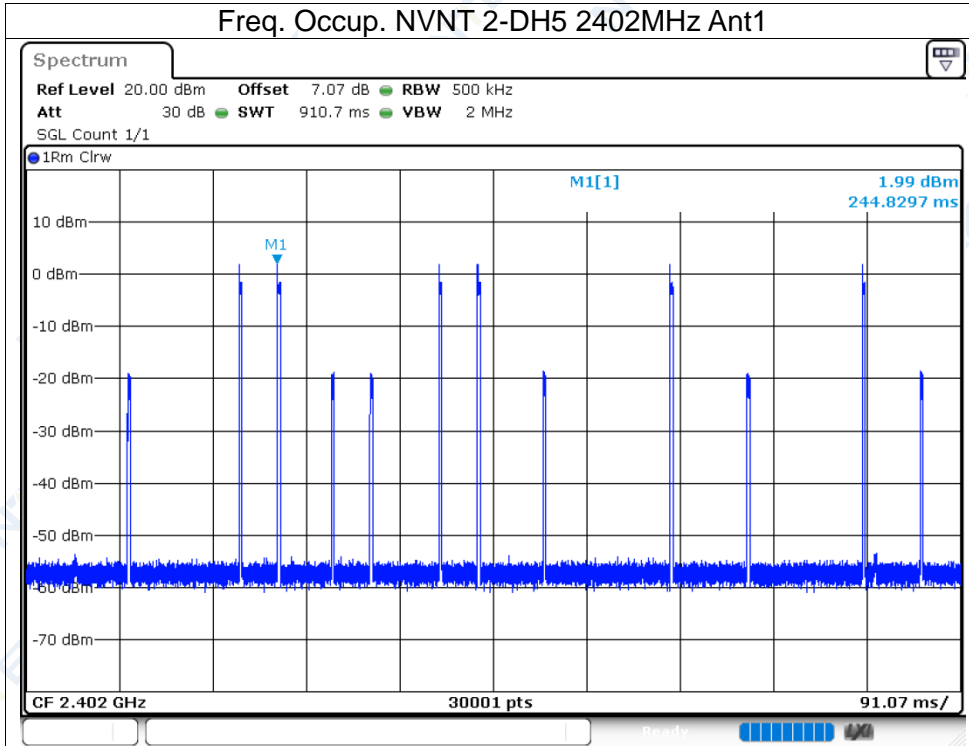


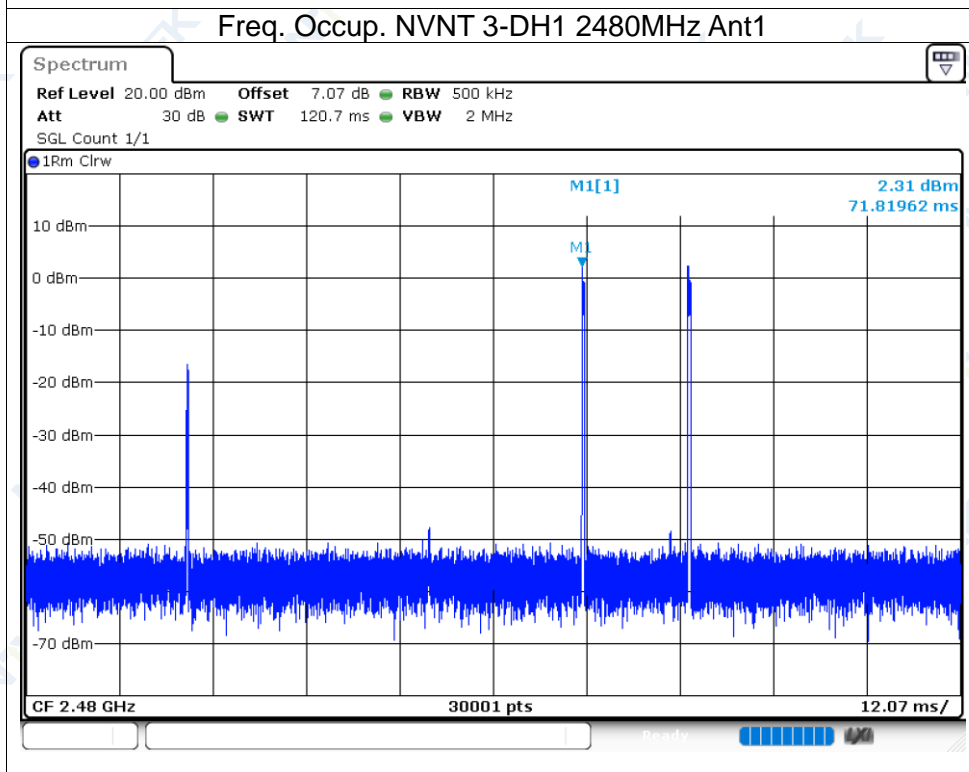
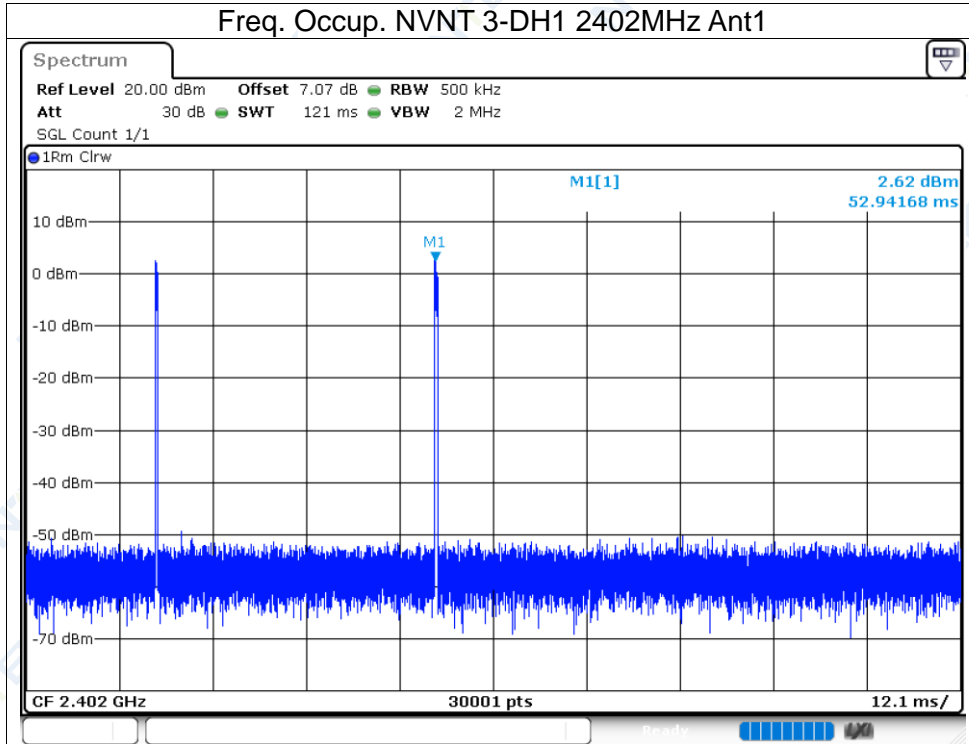


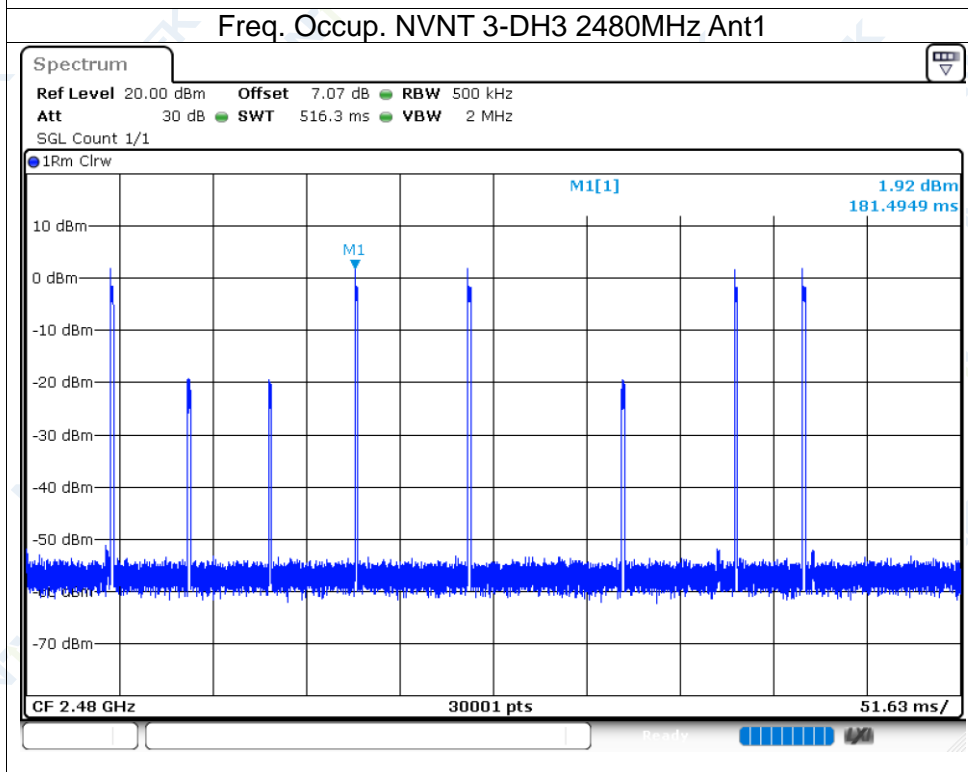
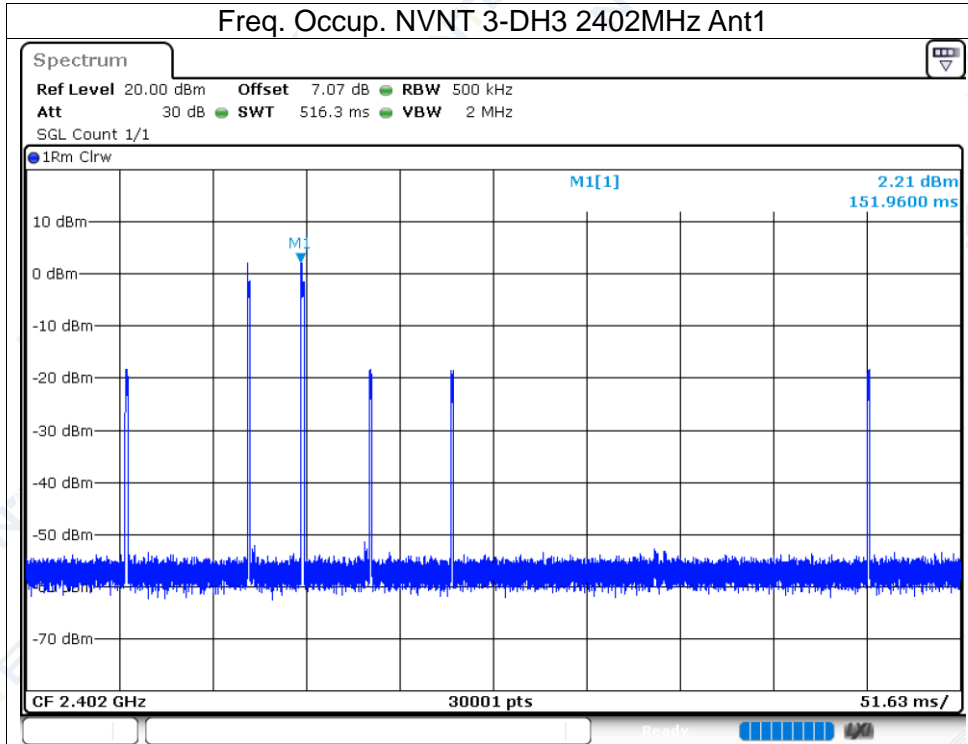


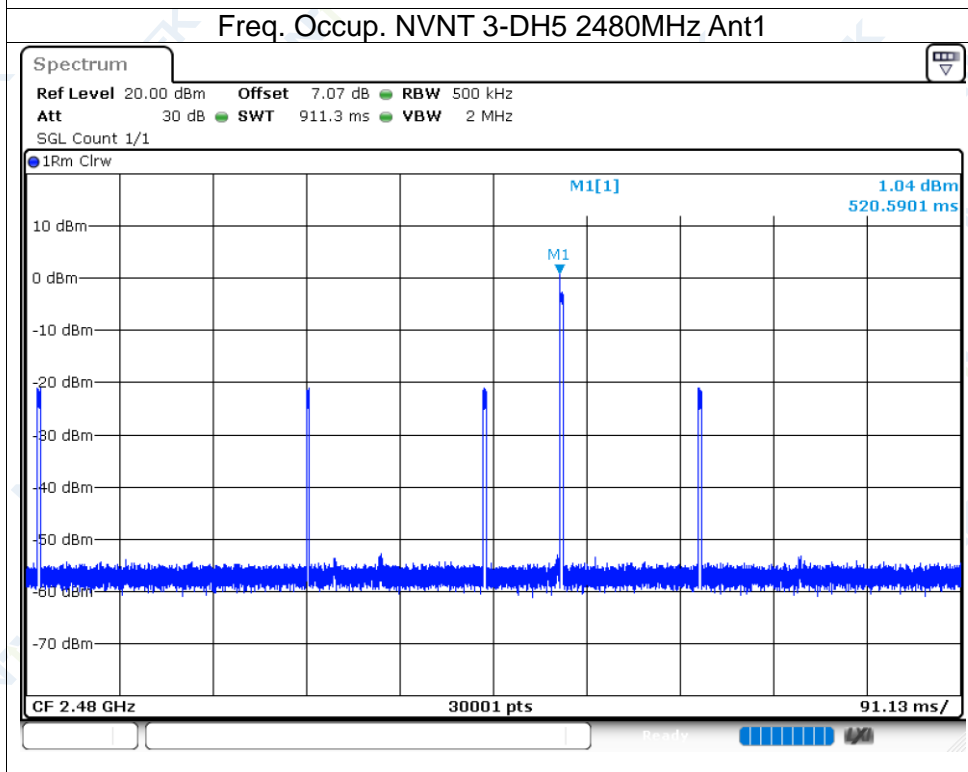
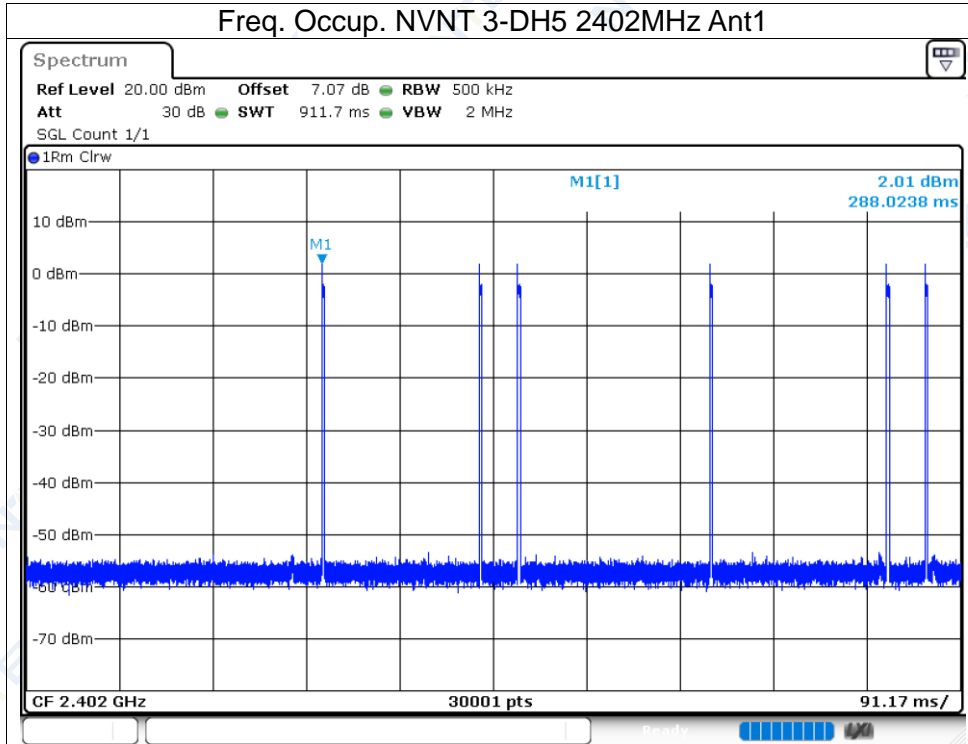






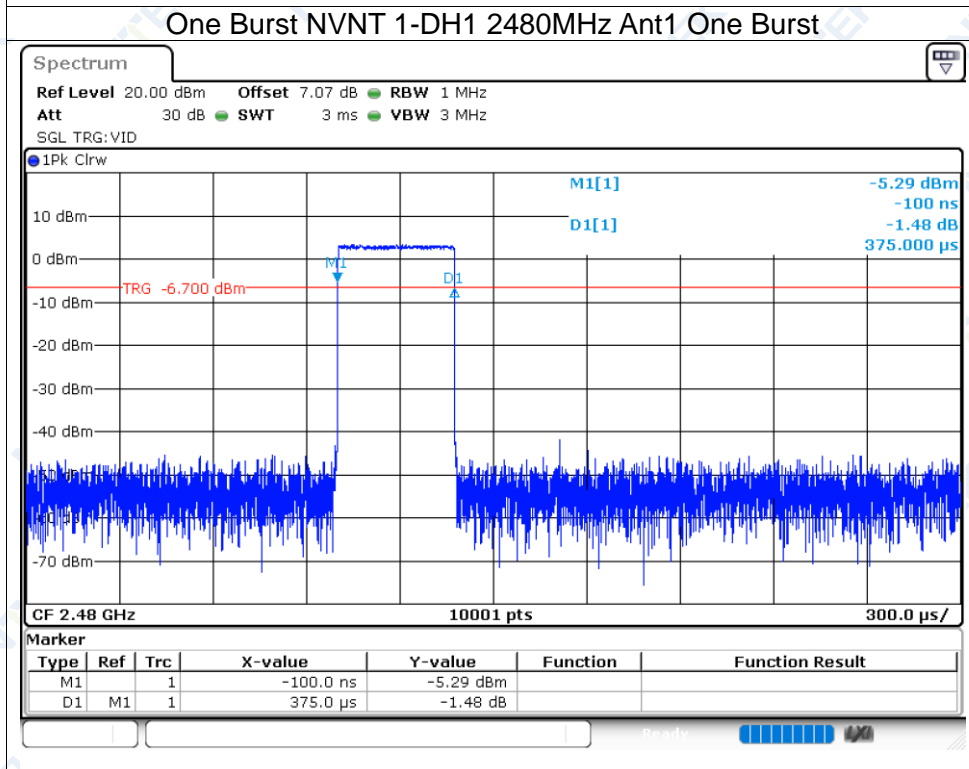
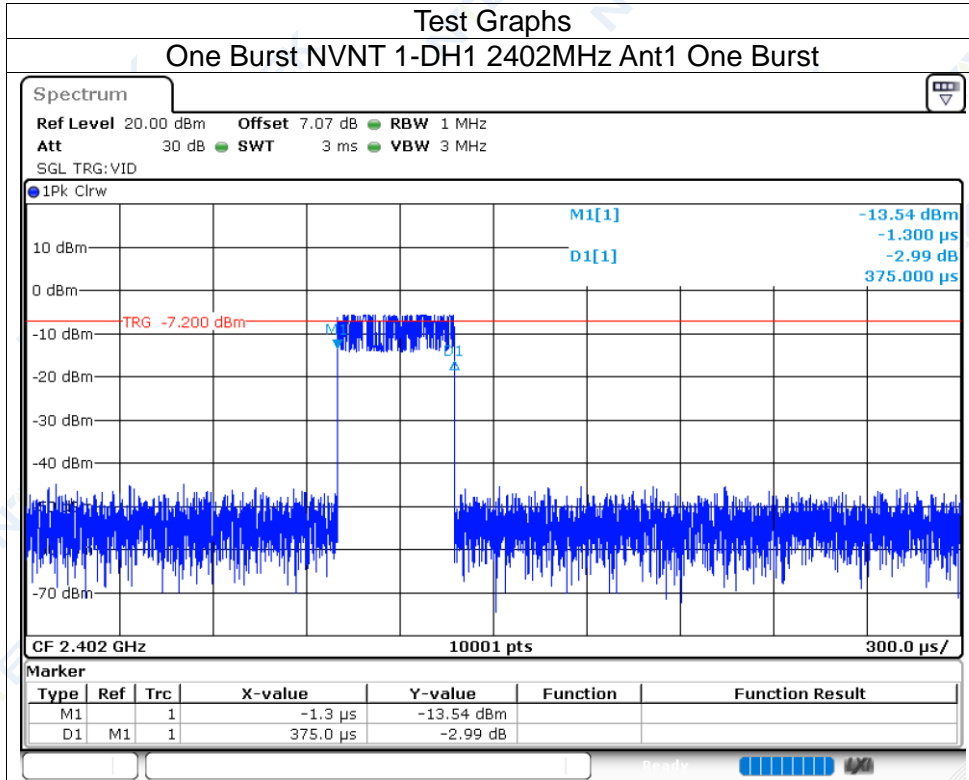


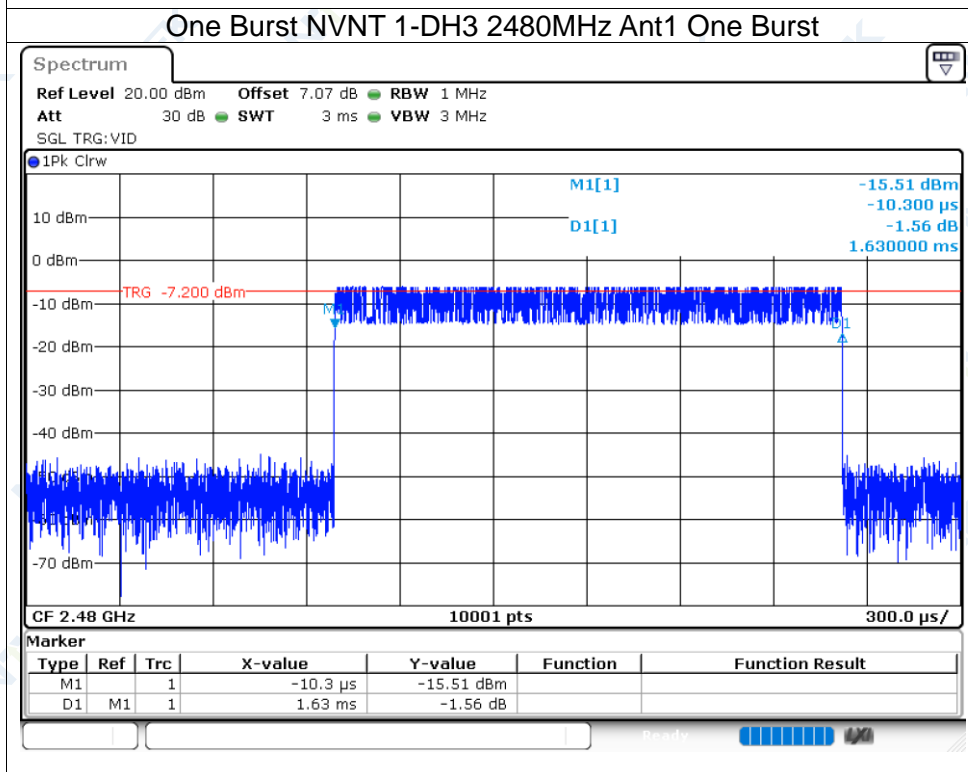
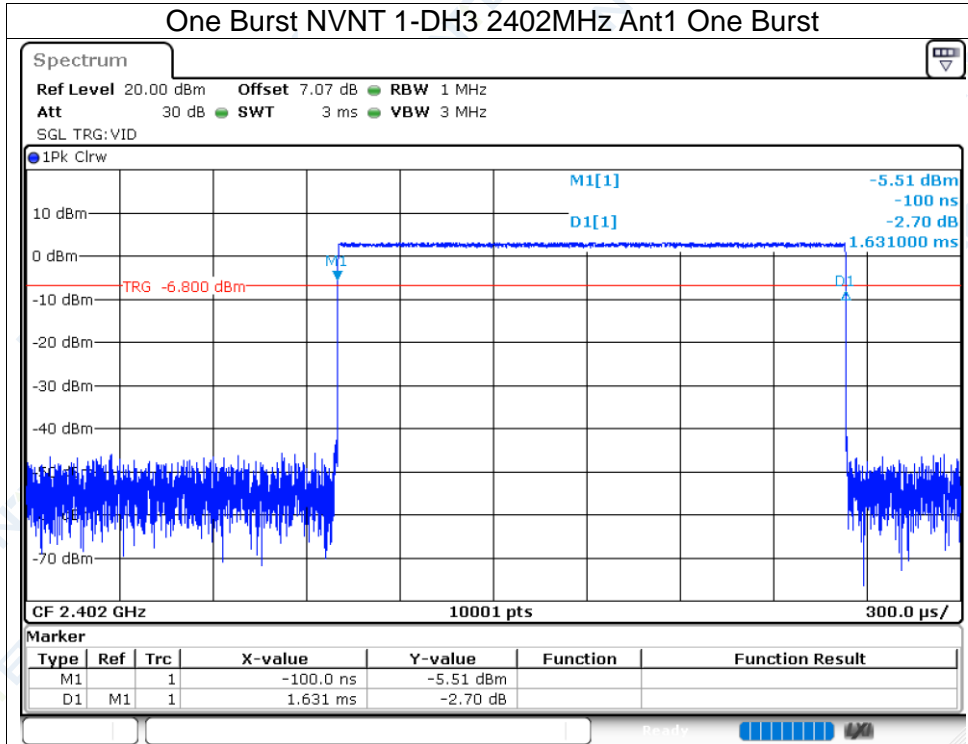


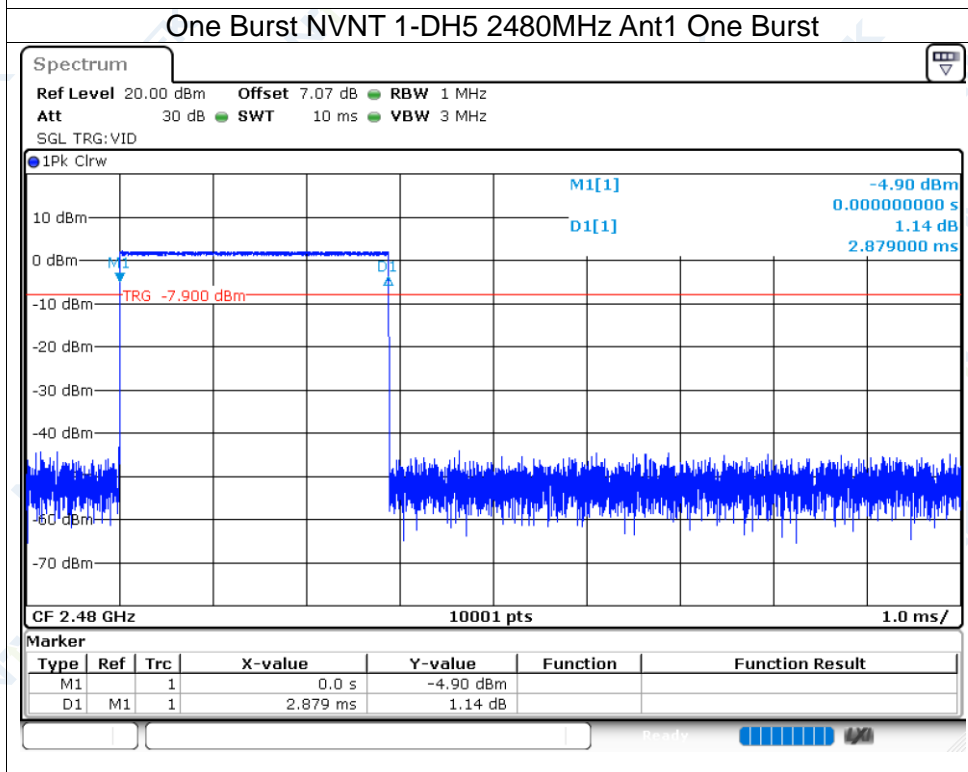
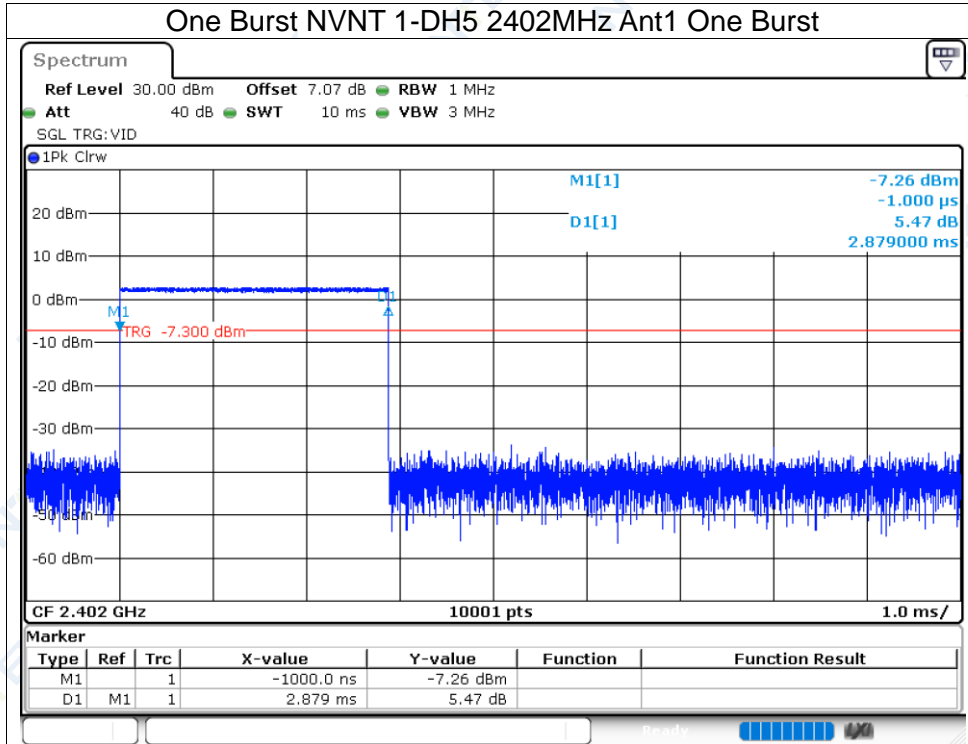


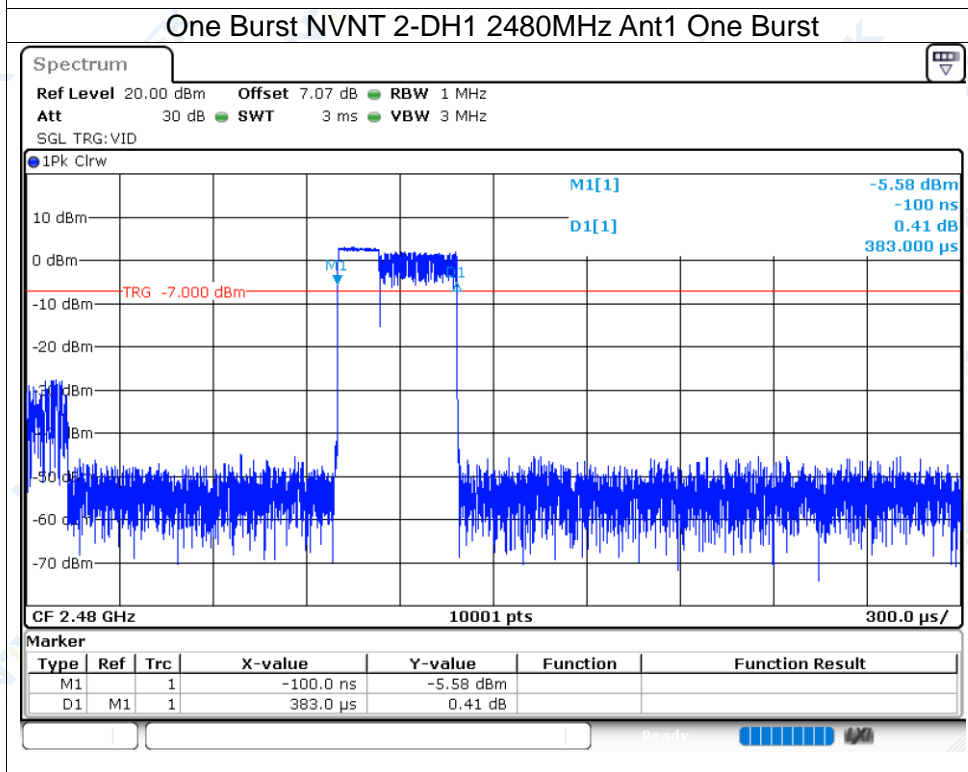
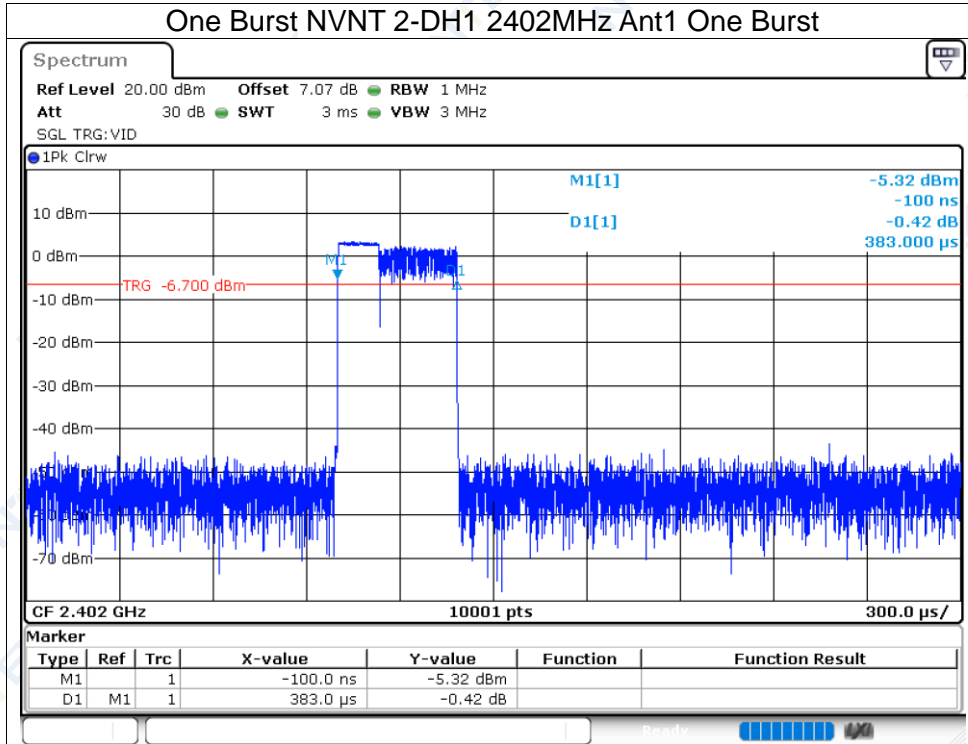
11.3 Dwell Time One Burst

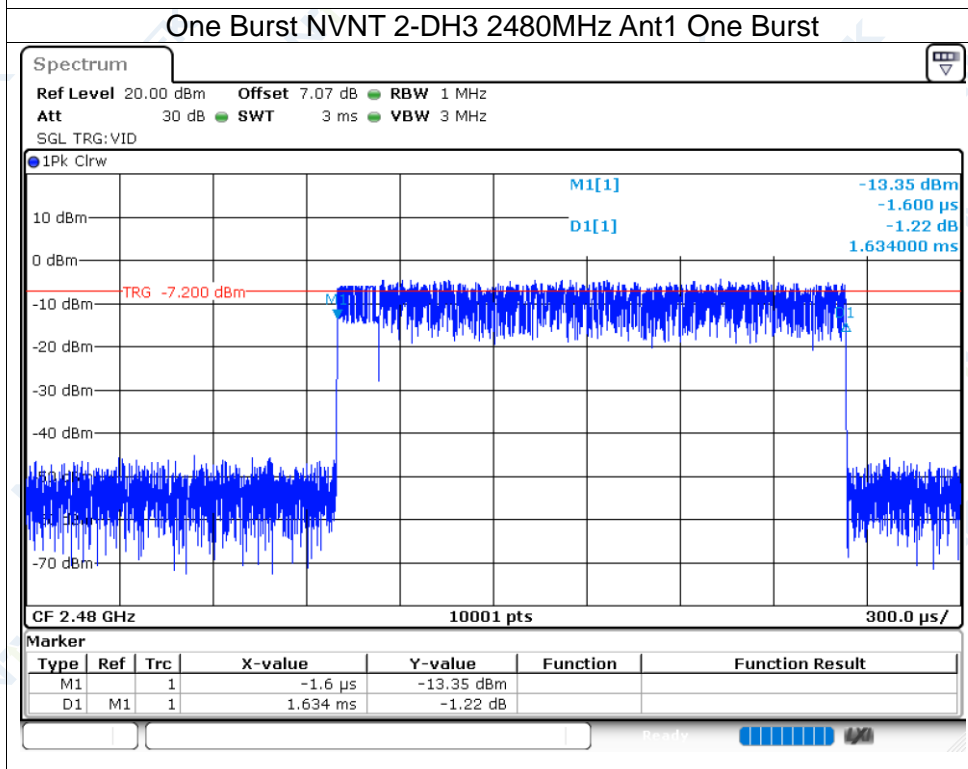
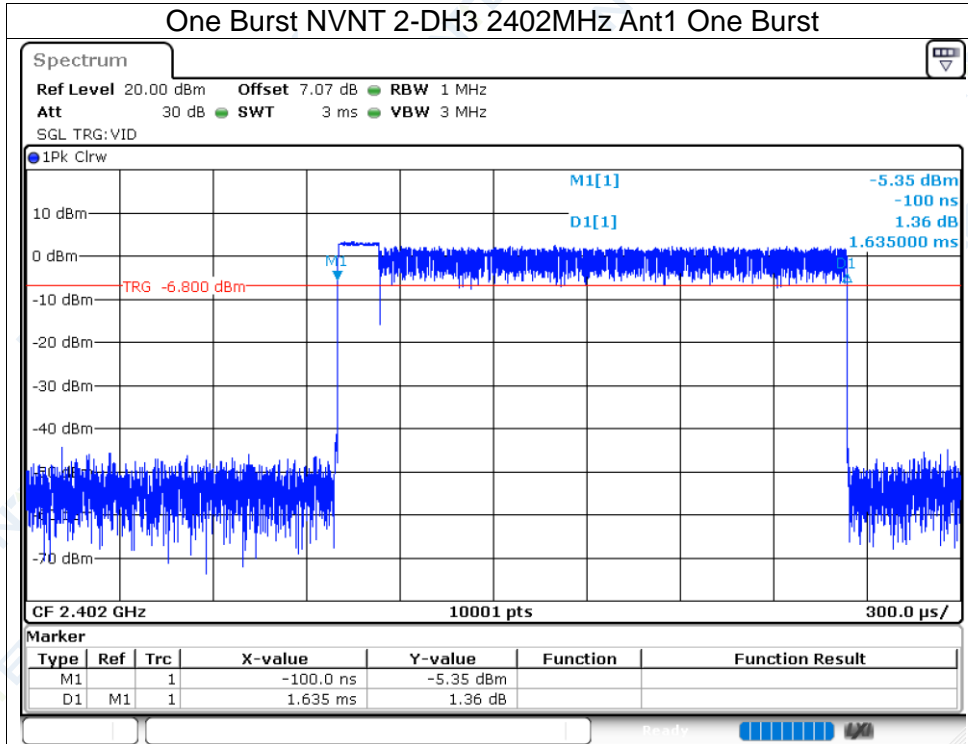
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)
NVNT	1-DH1	2402	Ant1	0.375
NVNT	1-DH1	2480	Ant1	0.375
NVNT	1-DH3	2402	Ant1	1.631
NVNT	1-DH3	2480	Ant1	1.63
NVNT	1-DH5	2402	Ant1	2.879
NVNT	1-DH5	2480	Ant1	2.879
NVNT	2-DH1	2402	Ant1	0.383
NVNT	2-DH1	2480	Ant1	0.383
NVNT	2-DH3	2402	Ant1	1.635
NVNT	2-DH3	2480	Ant1	1.634
NVNT	2-DH5	2402	Ant1	2.882
NVNT	2-DH5	2480	Ant1	2.882
NVNT	3-DH1	2402	Ant1	0.383
NVNT	3-DH1	2480	Ant1	0.382
NVNT	3-DH3	2402	Ant1	1.634
NVNT	3-DH3	2480	Ant1	1.634
NVNT	3-DH5	2402	Ant1	2.885
NVNT	3-DH5	2480	Ant1	2.884

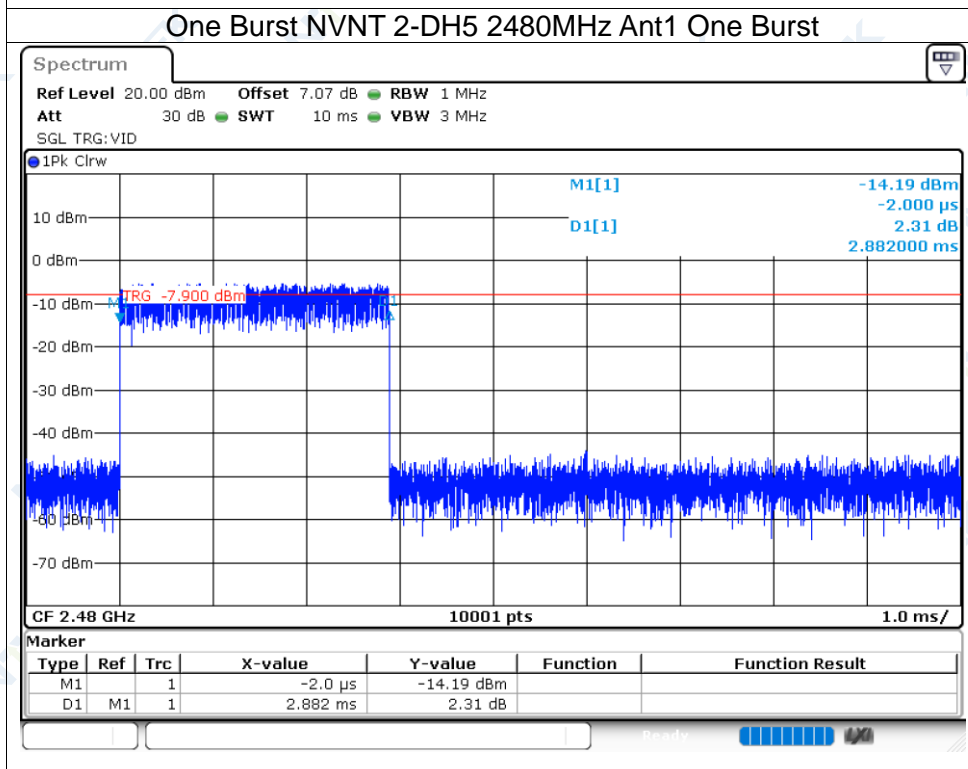
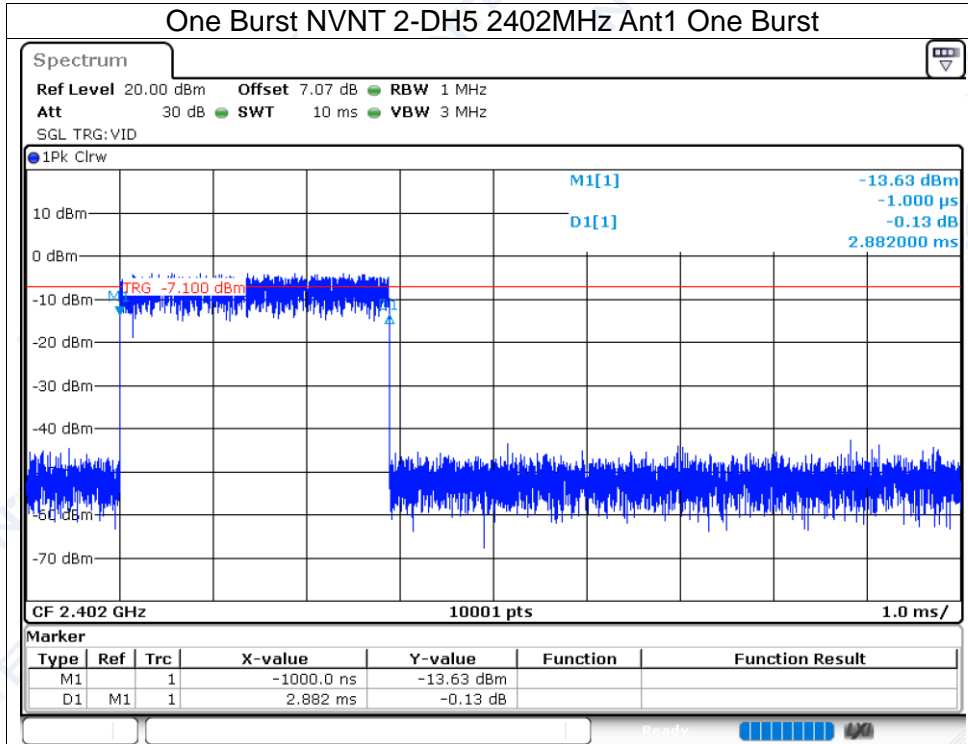


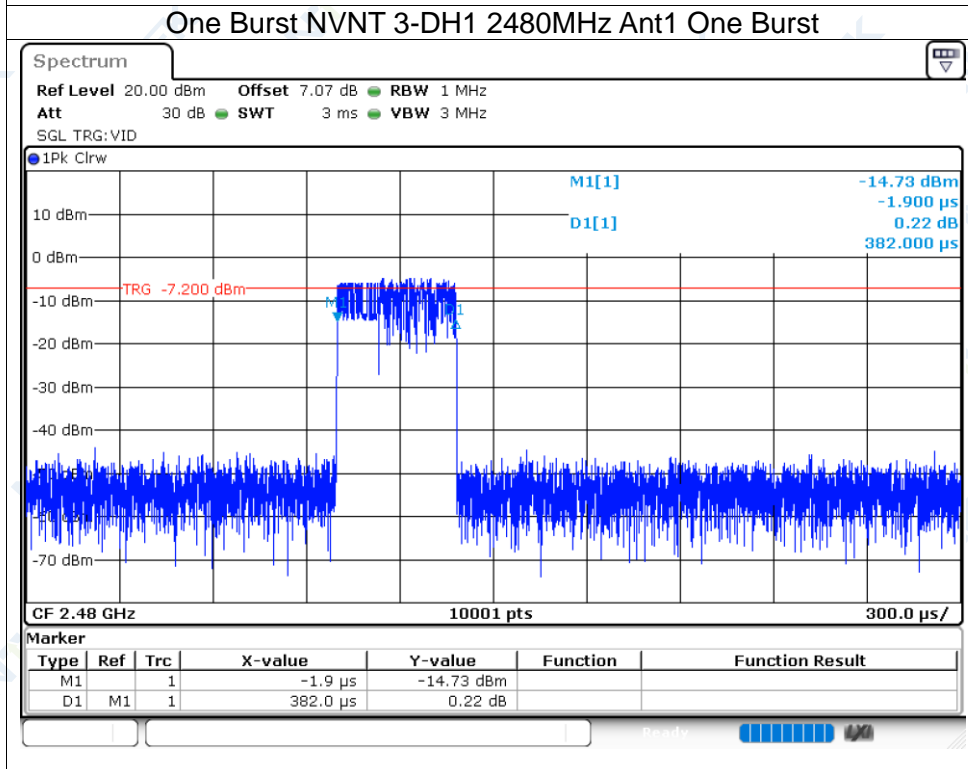
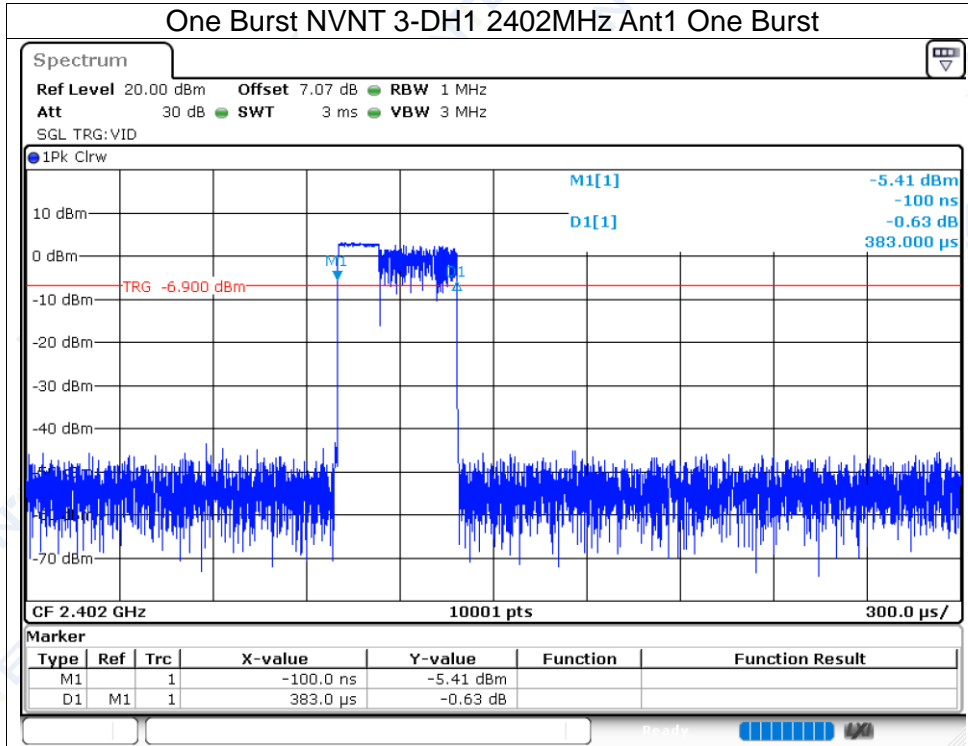


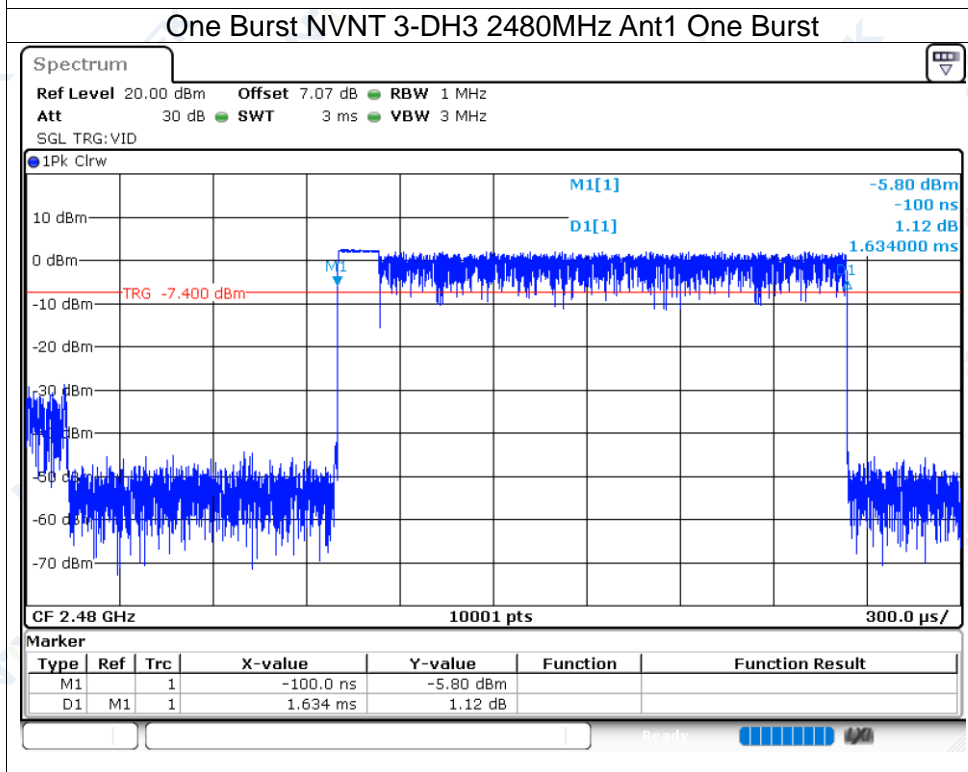
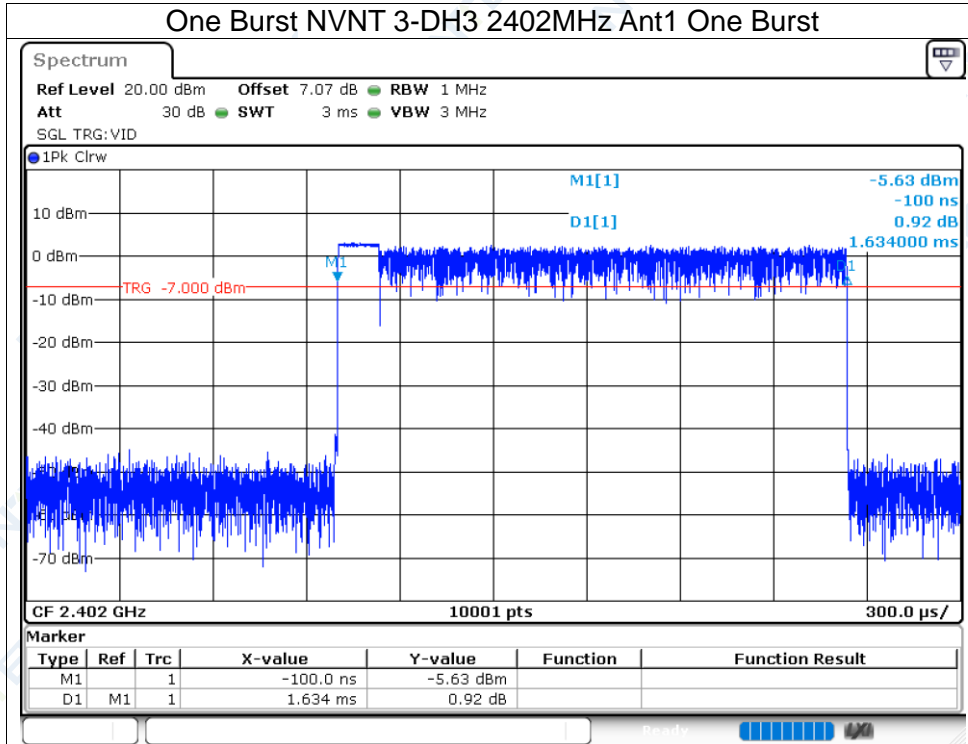


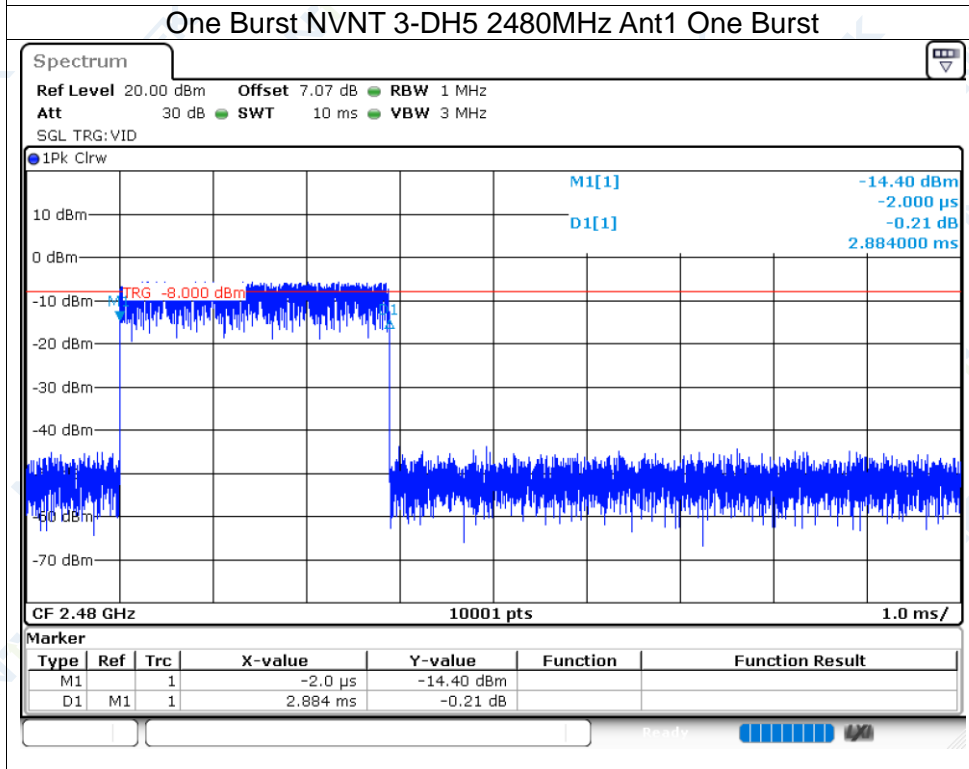
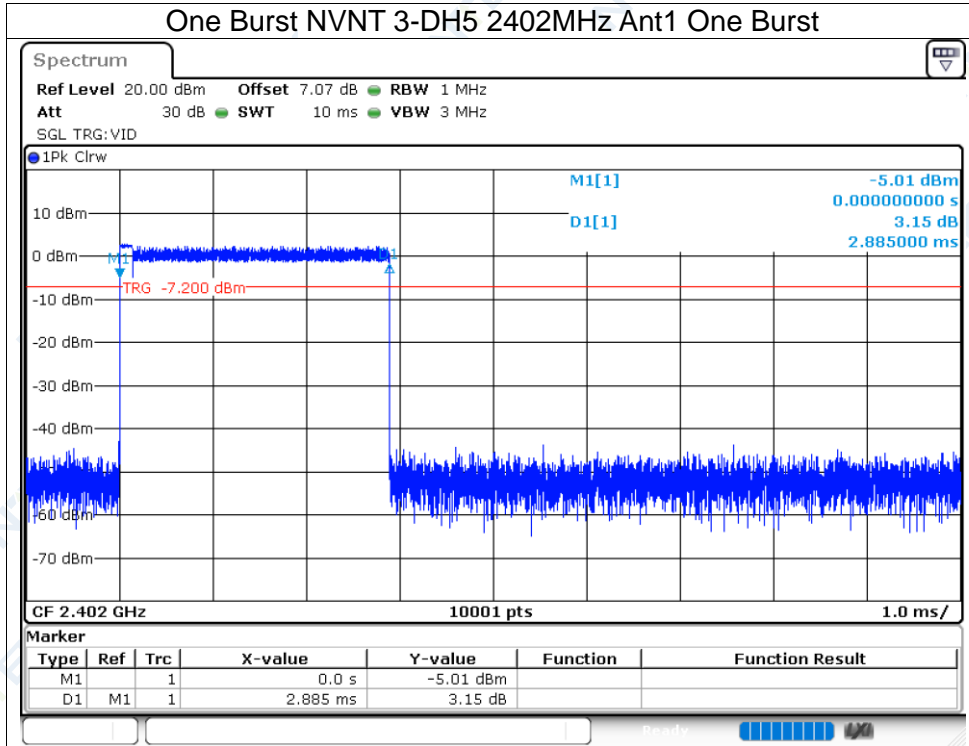










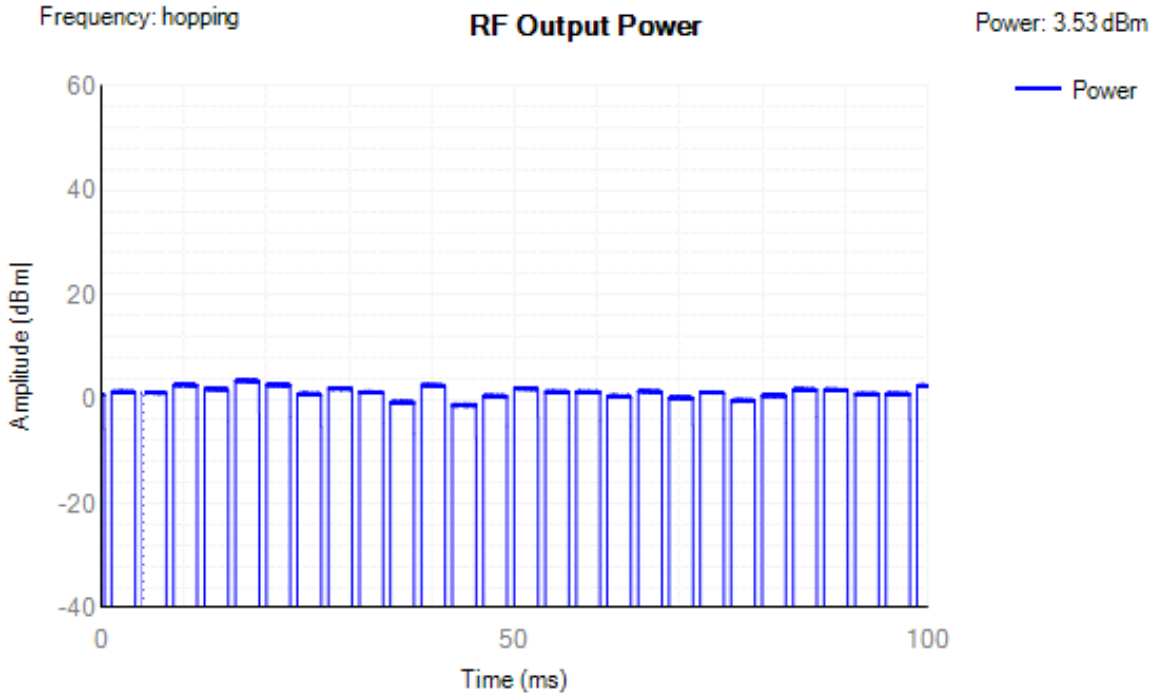


11.4 RF Output Power

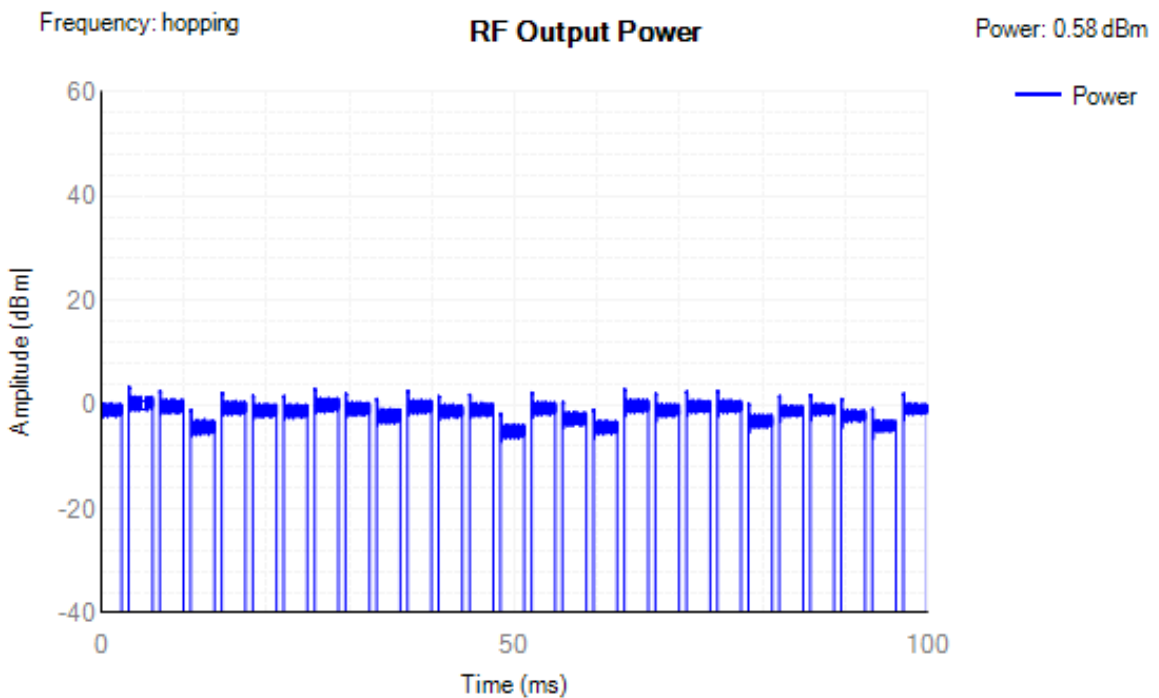
Condition	Mode	Frequency (MHz)	Antenna	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	hopping	Ant1	3.53	28	4.79	20	Pass
NVNT	2-DH5	hopping	Ant1	0.58	32	1.84	20	Pass
NVNT	3-DH5	hopping	Ant1	0.68	32	1.94	20	Pass
NVLT	1-DH5	hopping	Ant1	3.48	28	4.74	20	Pass
NVLT	2-DH5	hopping	Ant1	0.57	32	1.83	20	Pass
NVLT	3-DH5	hopping	Ant1	0.47	32	1.73	20	Pass
NVHT	1-DH5	hopping	Ant1	3.29	28	4.55	20	Pass
NVHT	2-DH5	hopping	Ant1	0.23	32	1.49	20	Pass
NVHT	3-DH5	hopping	Ant1	0.23	32	1.49	20	Pass

Test Graphs

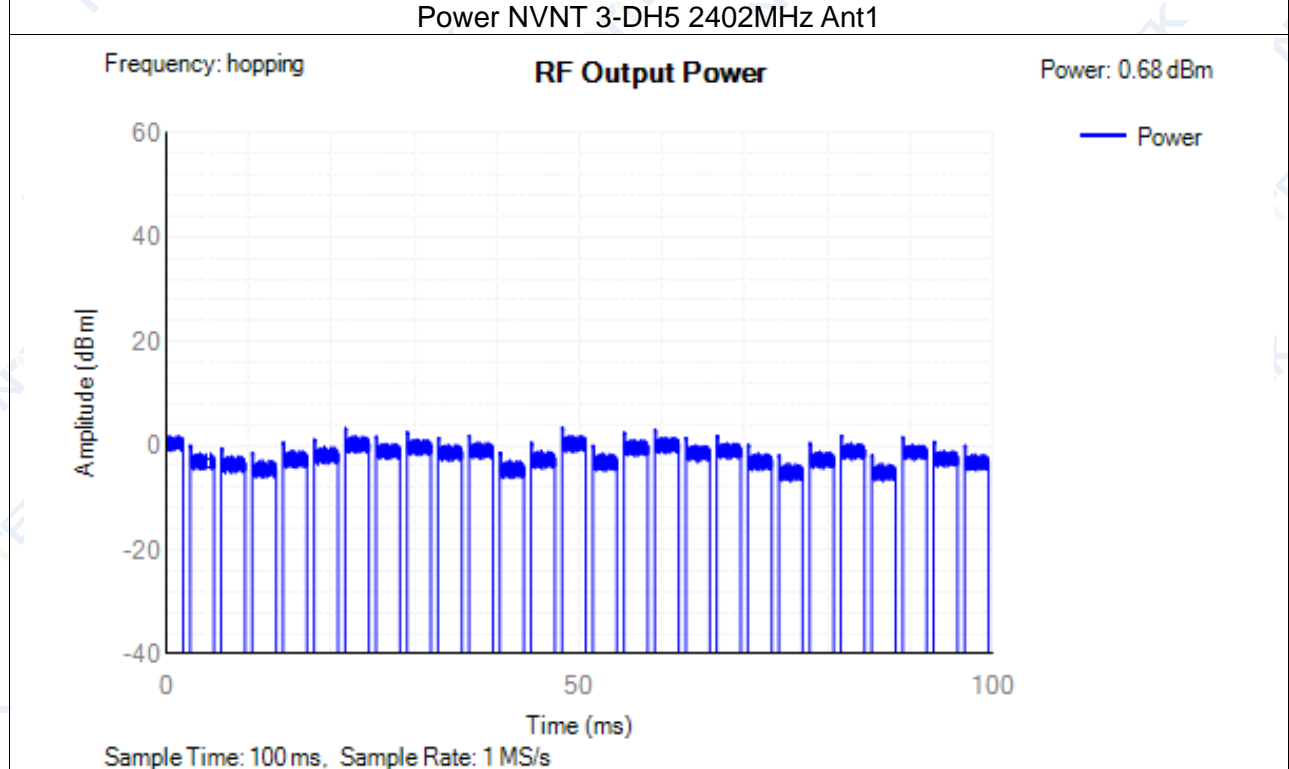
Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1

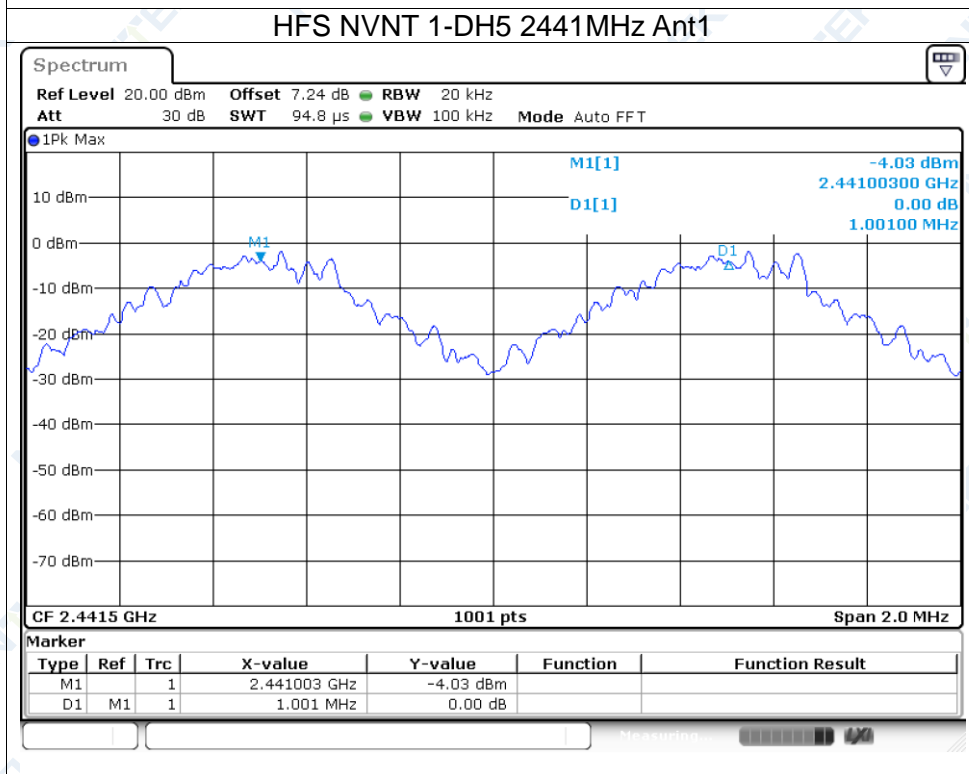
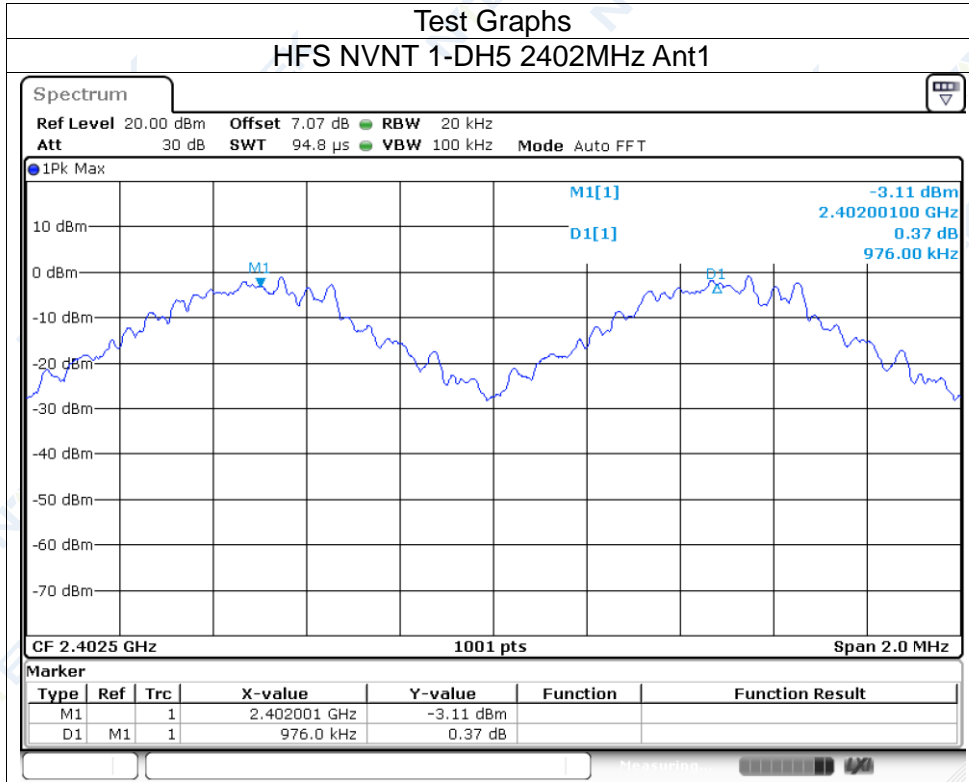


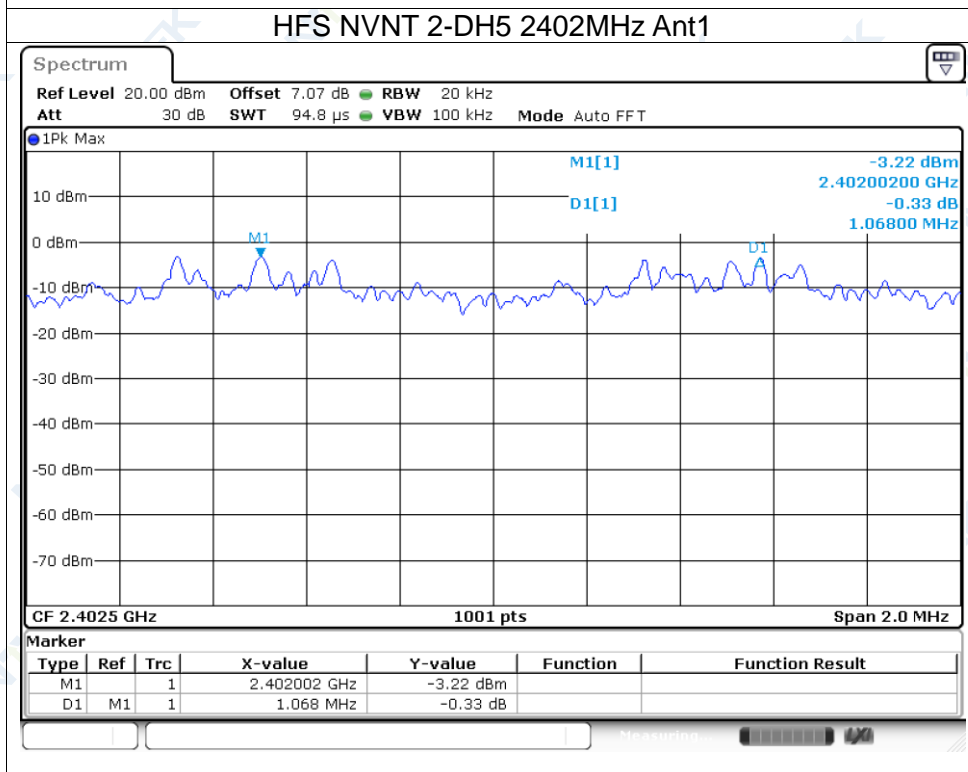
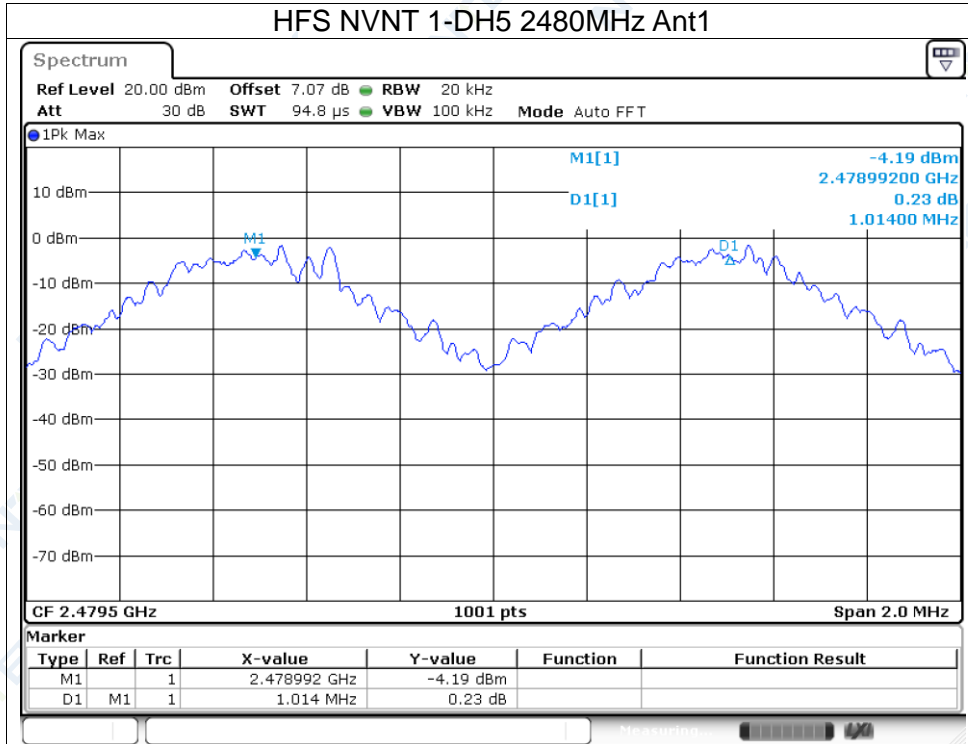
Power NVNT 3-DH5 2402MHz Ant1

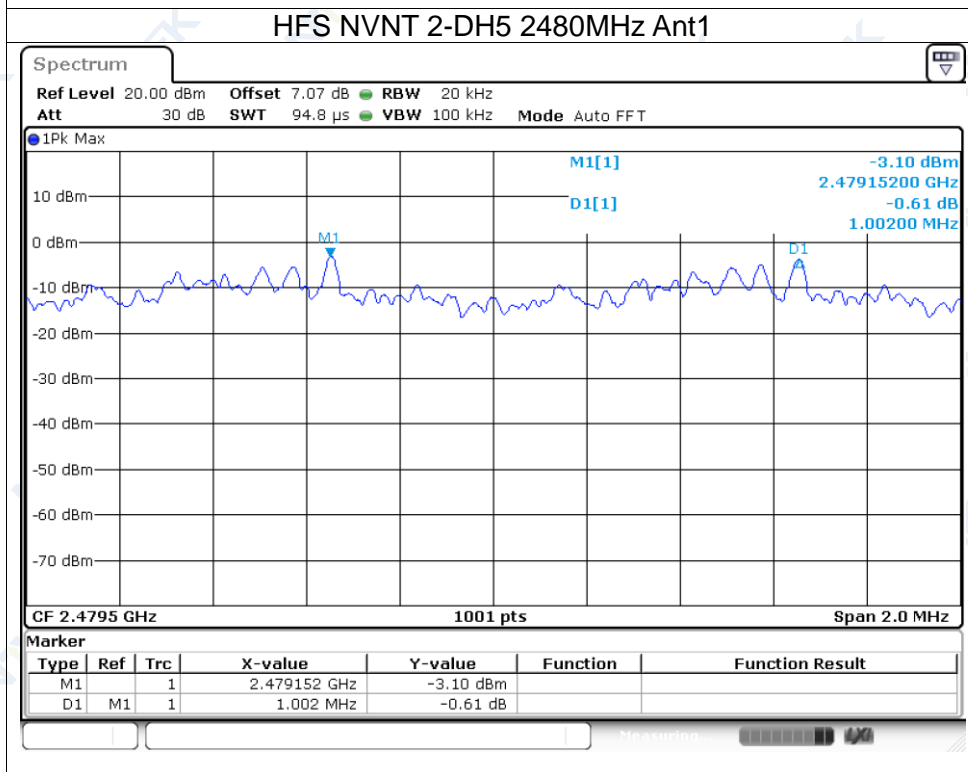
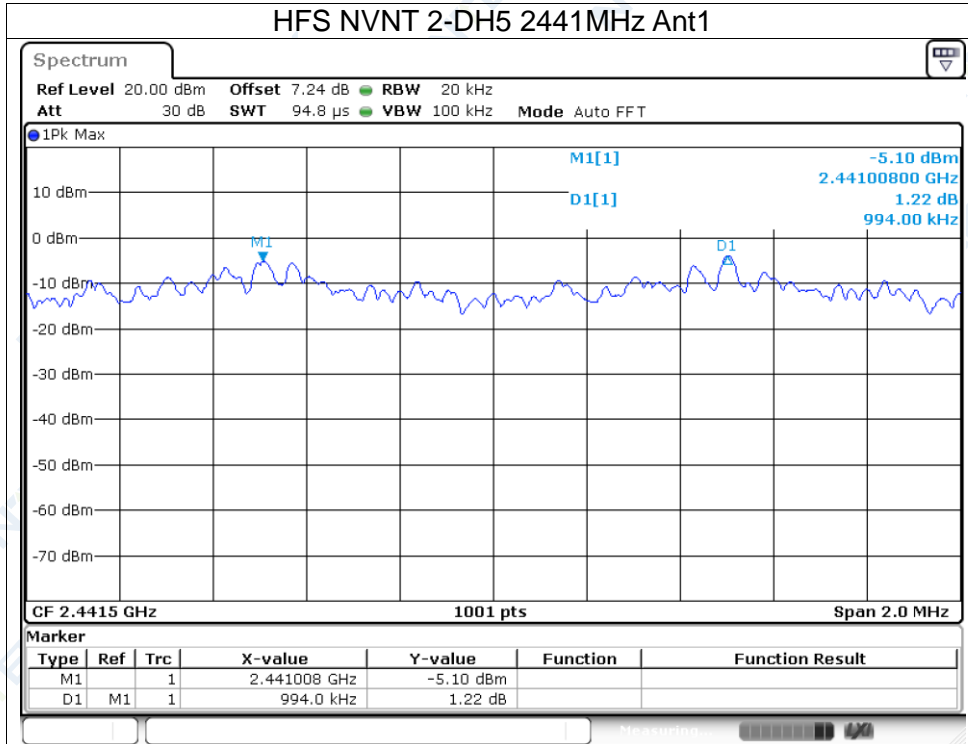


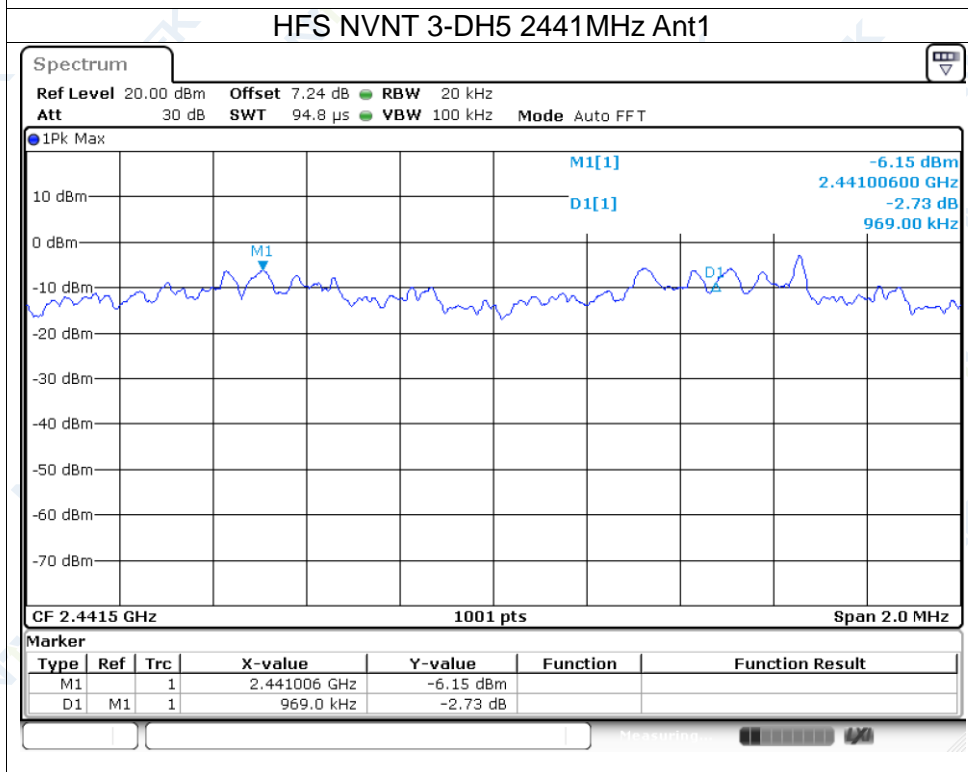
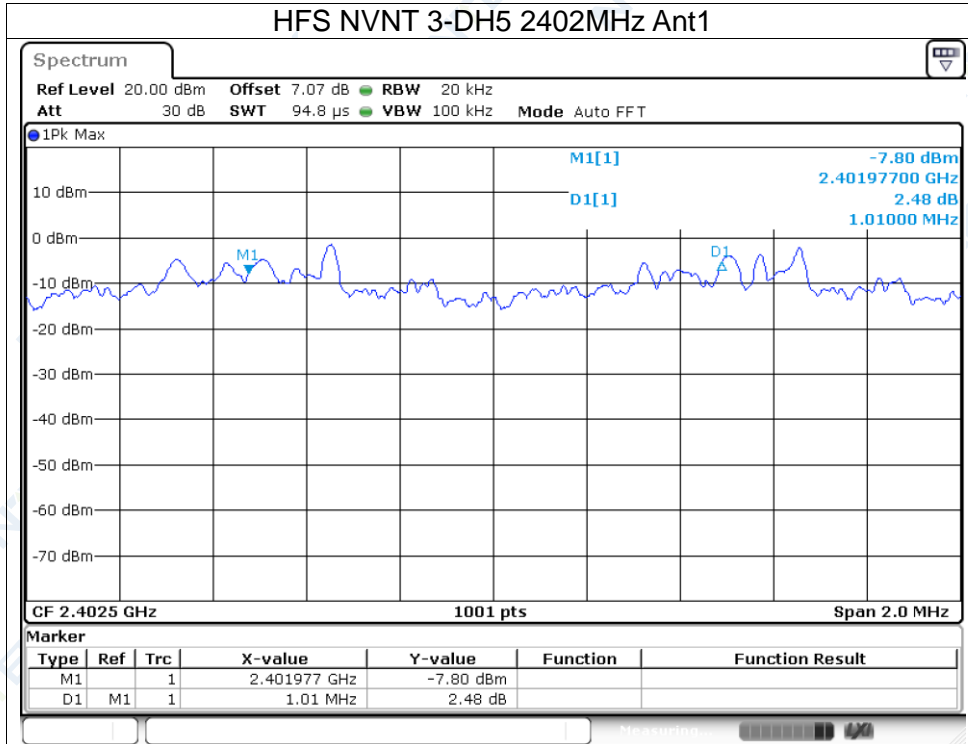
11.5 Hopping Frequency Separation

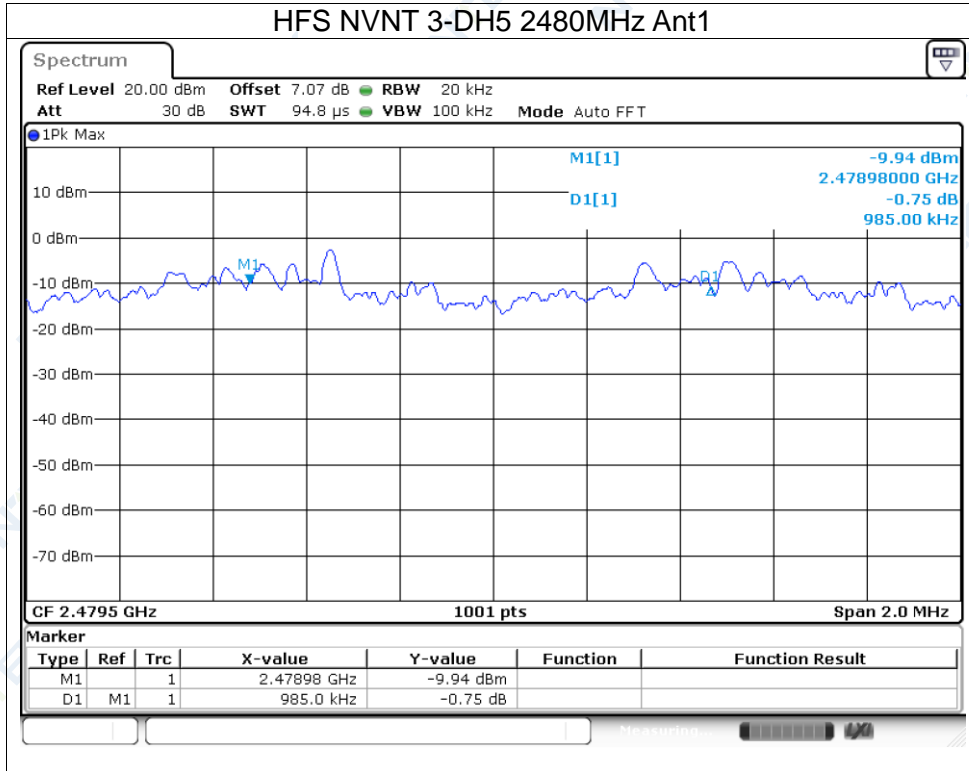
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.001	2402.977	0.976	0.1	Pass
NVNT	1-DH5	Ant1	2441.003	2442.004	1.001	0.1	Pass
NVNT	1-DH5	Ant1	2478.992	2480.006	1.014	0.1	Pass
NVNT	2-DH5	Ant1	2402.002	2403.07	1.068	0.1	Pass
NVNT	2-DH5	Ant1	2441.008	2442.002	0.994	0.1	Pass
NVNT	2-DH5	Ant1	2479.152	2480.154	1.002	0.1	Pass
NVNT	3-DH5	Ant1	2401.977	2402.987	1.01	0.1	Pass
NVNT	3-DH5	Ant1	2441.006	2441.975	0.969	0.1	Pass
NVNT	3-DH5	Ant1	2478.98	2479.965	0.985	0.1	Pass





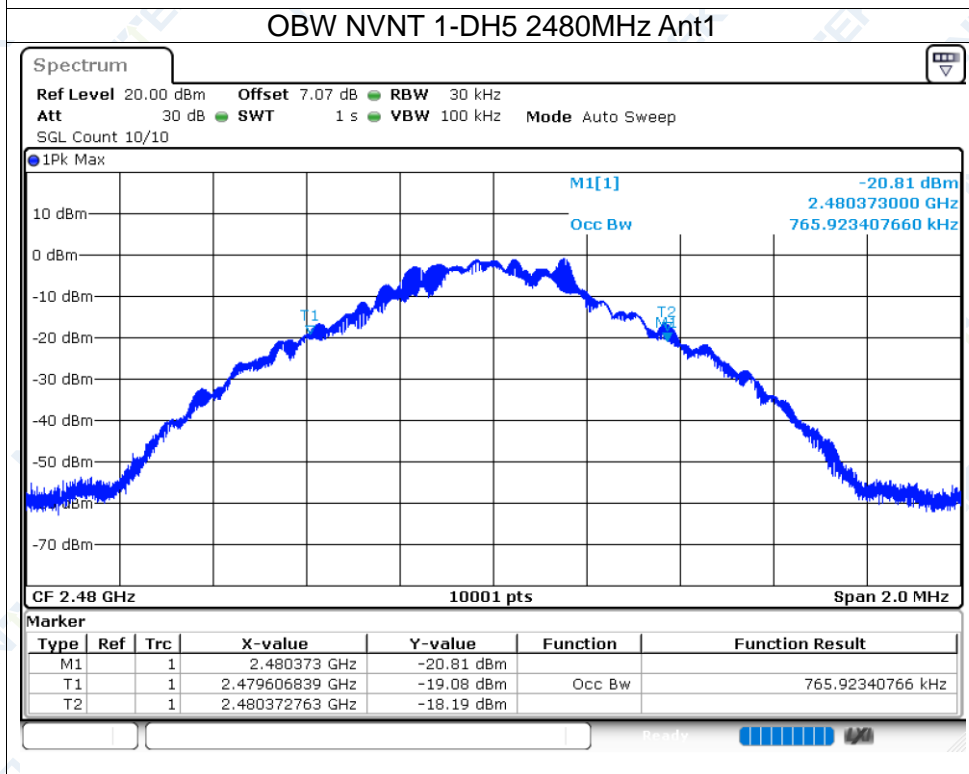
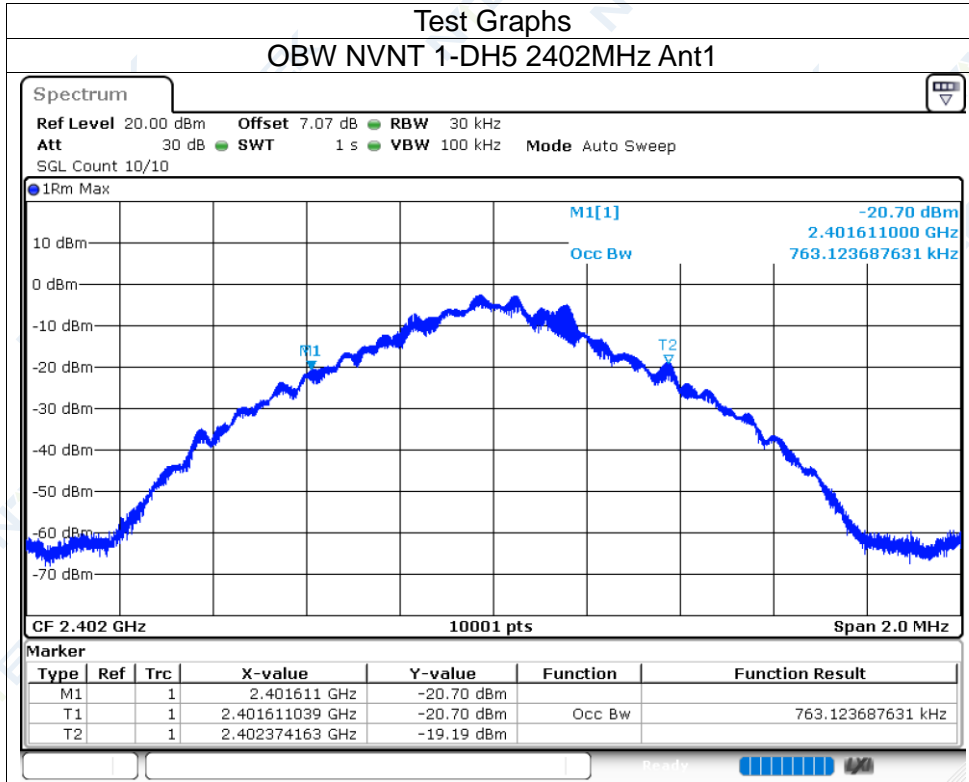


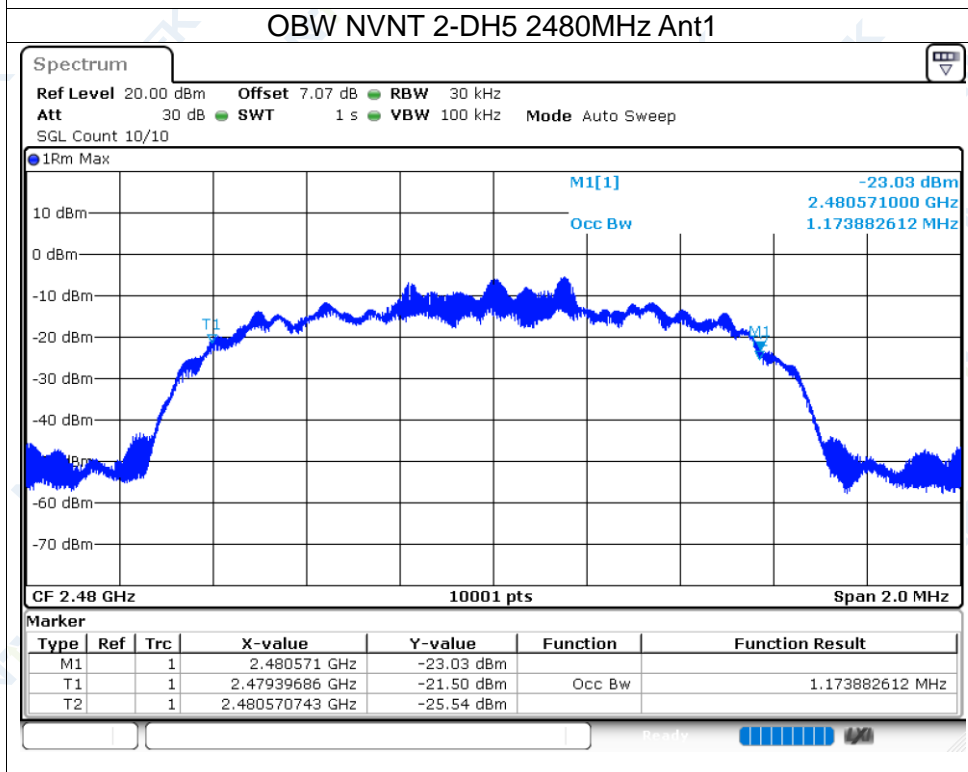
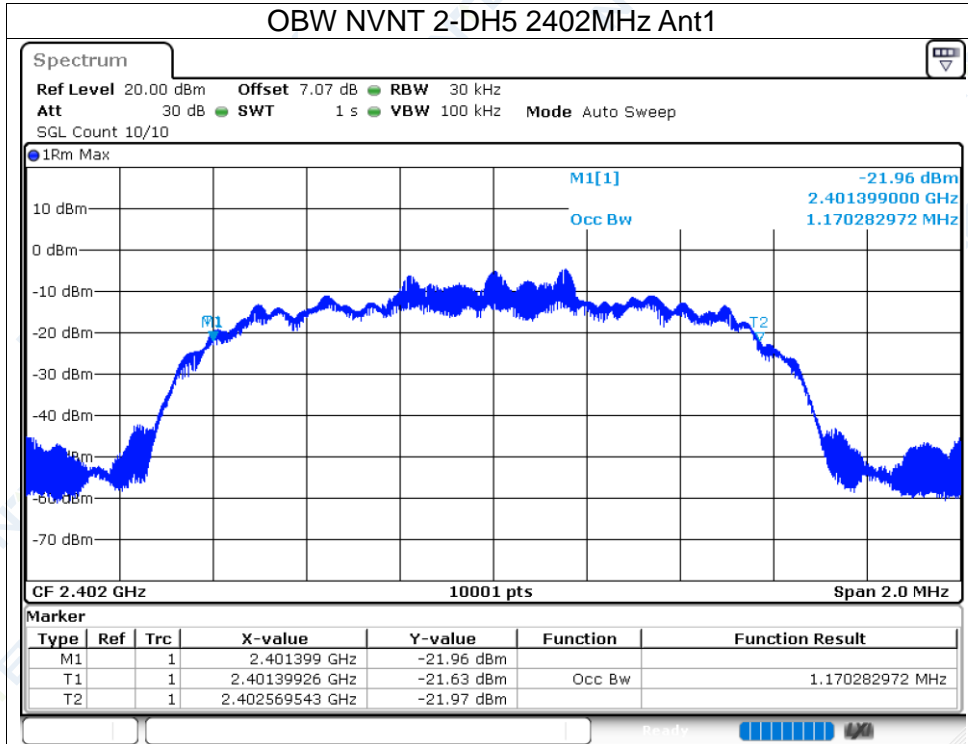


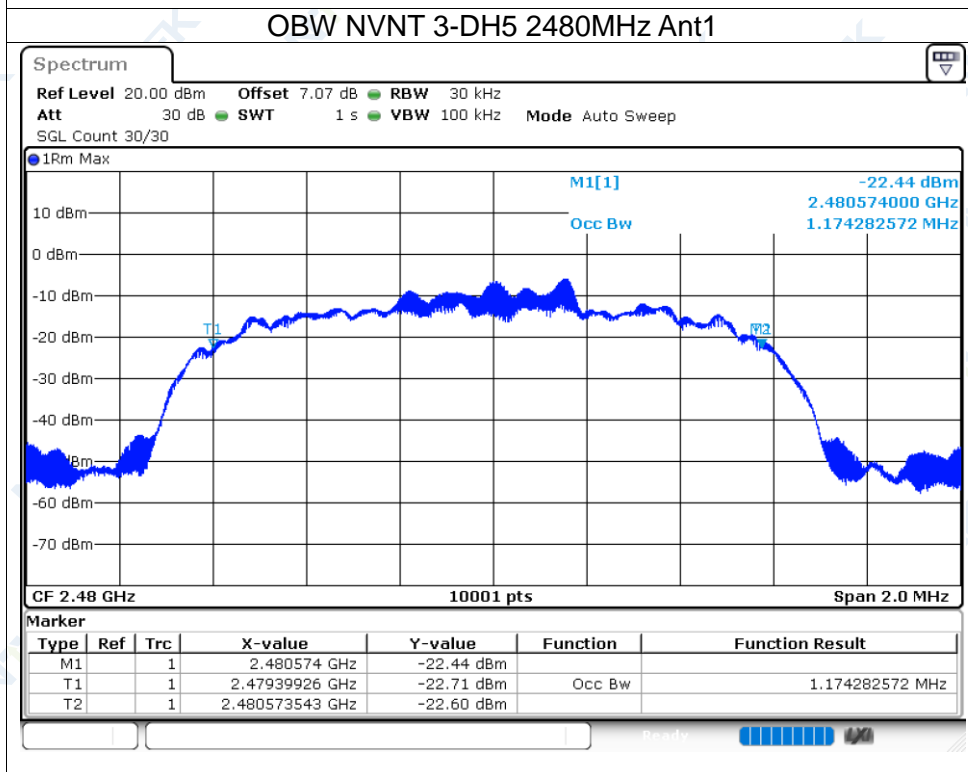
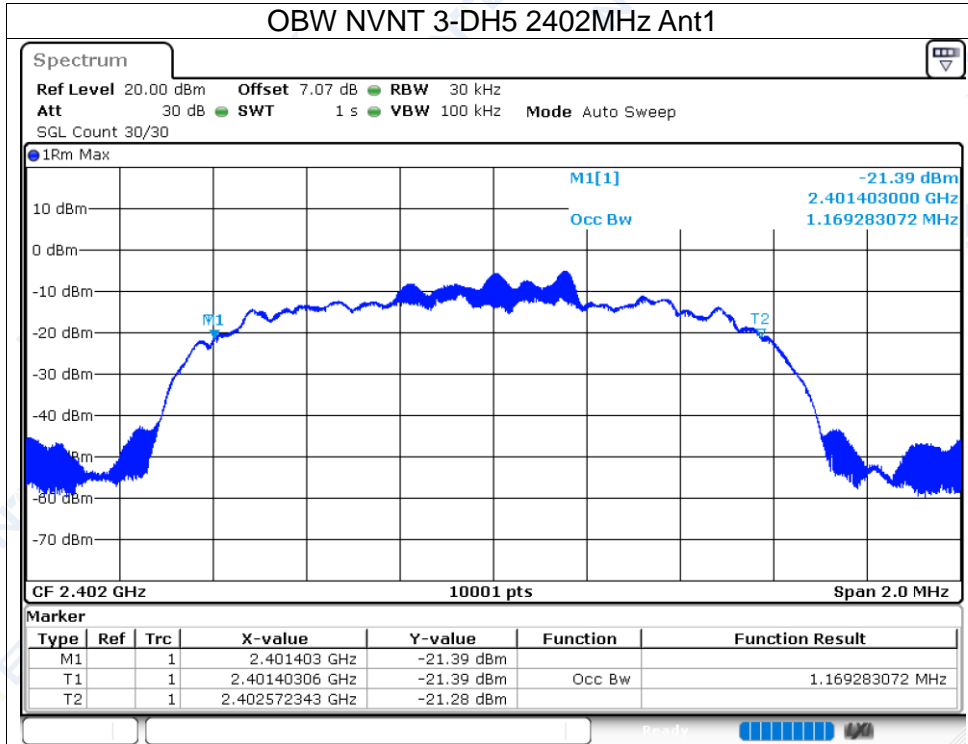


11.6 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	2401.993	0.763	2401.611	2402.374	2400 - 2483.5MHz	Pass
NVNT	1-DH5	2480	Ant1	2479.99	0.766	2479.607	2480.373	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2402	Ant1	2401.984	1.17	2401.399	2402.57	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2480	Ant1	2479.984	1.174	2479.397	2480.571	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2402	Ant1	2401.988	1.169	2401.403	2402.572	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2480	Ant1	2479.986	1.174	2479.399	2480.574	2400 - 2483.5MHz	Pass





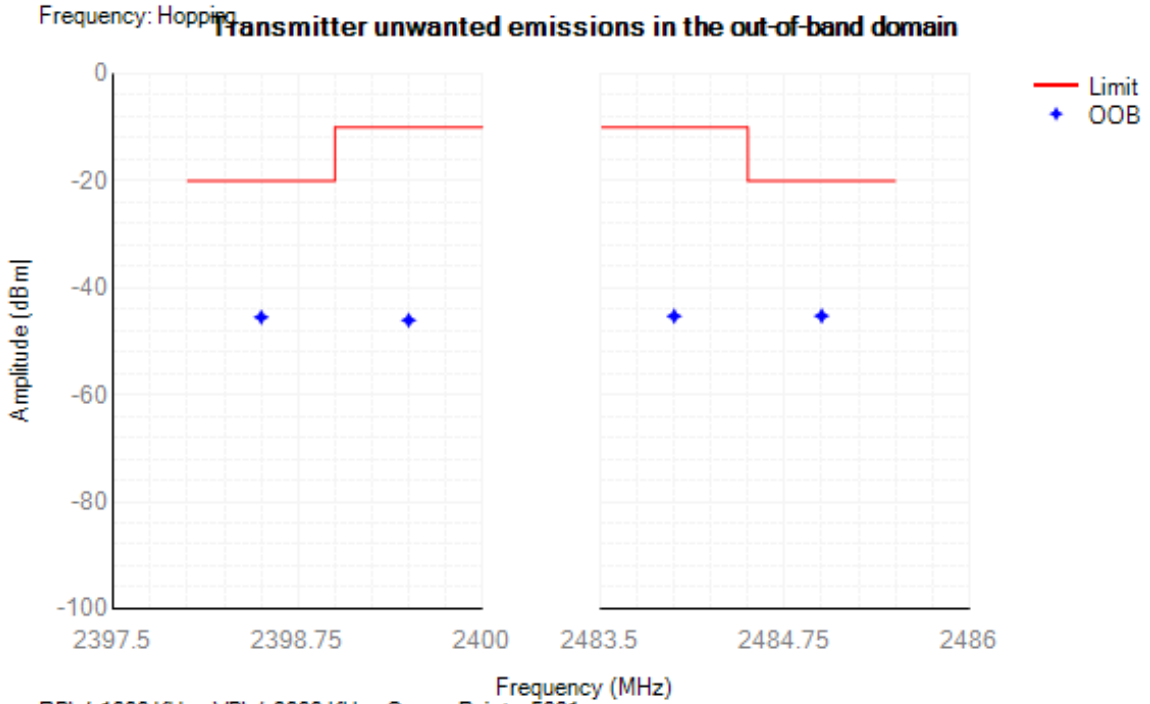


11.7 Transmitter unwanted emissions in the out-of-band domain

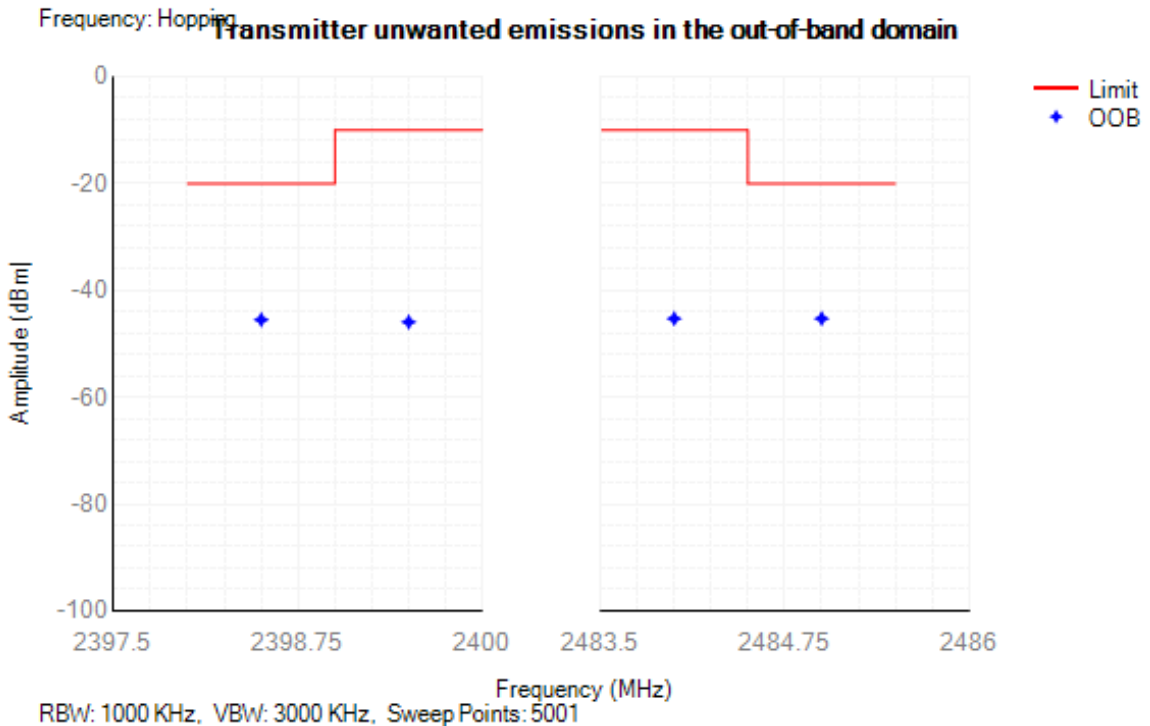
Condition	Mode	Frequency (MHz)	Antenna	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH5	Hopping	Ant1	2399.5	-46.07	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2398.5	-45.51	-20	Pass
NVNT	1-DH5	Hopping	Ant1	2484	-45.31	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2485	-45.26	-20	Pass
NVNT	1-DH5	Hopping	Ant1	2399.5	-45.92	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2398.5	-45.5	-20	Pass
NVNT	1-DH5	Hopping	Ant1	2484	-45.29	-10	Pass
NVNT	1-DH5	Hopping	Ant1	2485	-45.28	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2399.5	-46.08	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2399.33	-45.65	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2398.33	-45.54	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2398.16	-45.5	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2484	-45.22	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2485	-45.29	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2399.5	-46.06	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2398.5	-45.5	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2484	-45.29	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2484.174	-45.3	-10	Pass
NVNT	2-DH5	Hopping	Ant1	2485.174	-45.3	-20	Pass
NVNT	2-DH5	Hopping	Ant1	2485.348	-45.29	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2399.5	-46.05	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2399.331	-45.65	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2398.331	-45.52	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2398.162	-45.5	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2484	-45.27	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2485	-45.27	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2399.5	-45.94	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2398.5	-45.51	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2484	-45.3	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2484.174	-45.29	-10	Pass
NVNT	3-DH5	Hopping	Ant1	2485.174	-45.25	-20	Pass
NVNT	3-DH5	Hopping	Ant1	2485.348	-45.3	-20	Pass

Test Graphs

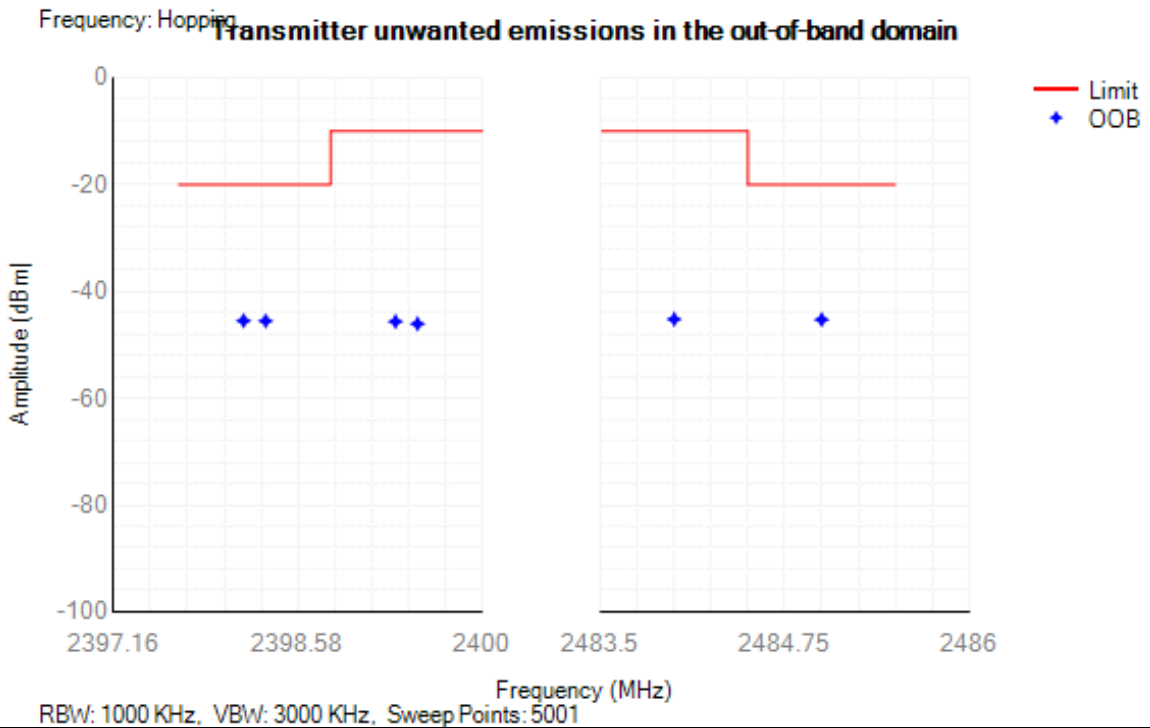
Tx. Emissions OOB NVNT 1-DH5 2402MHz Ant1



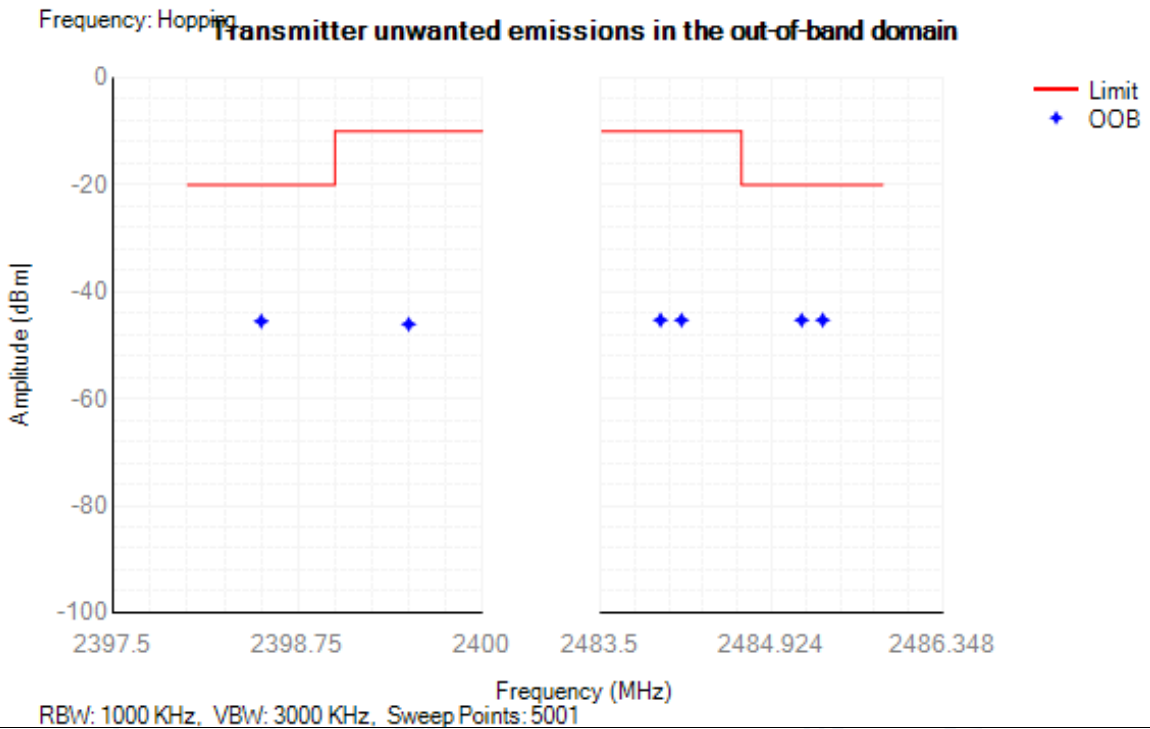
Tx. Emissions OOB NVNT 1-DH5 2480MHz Ant1

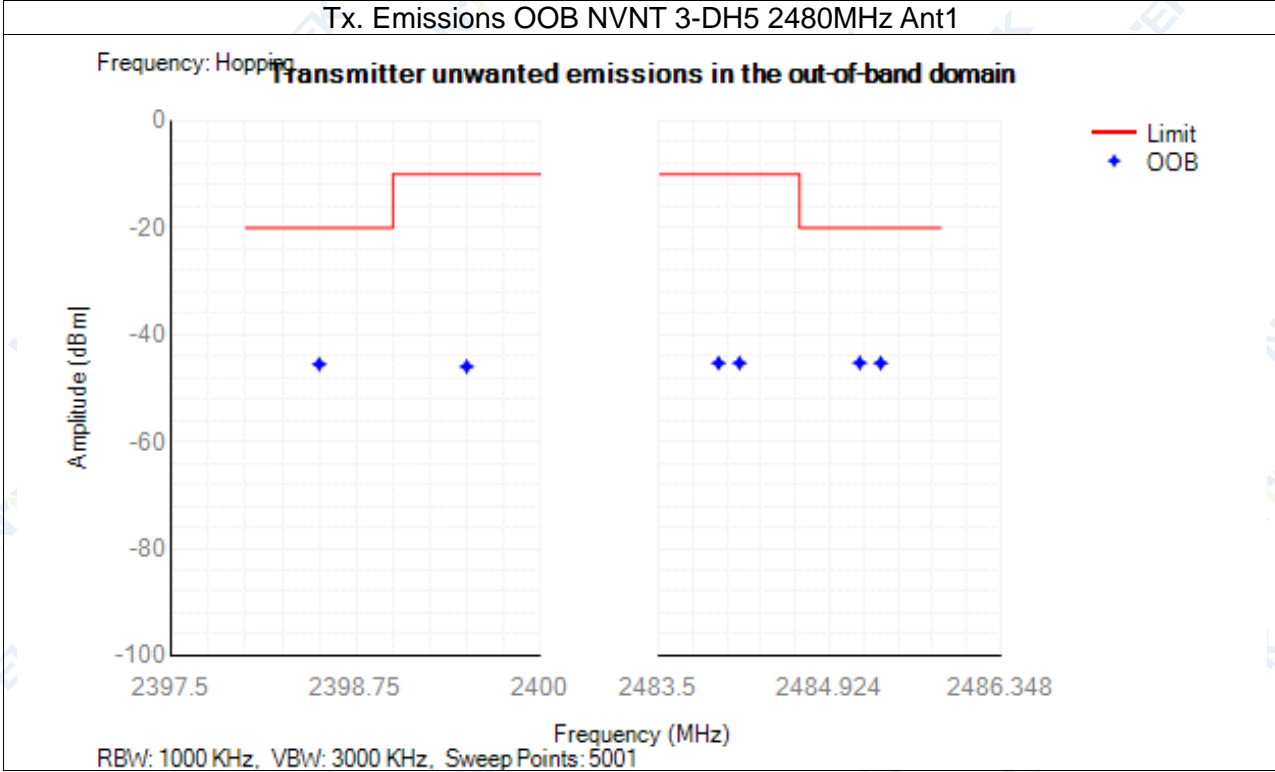
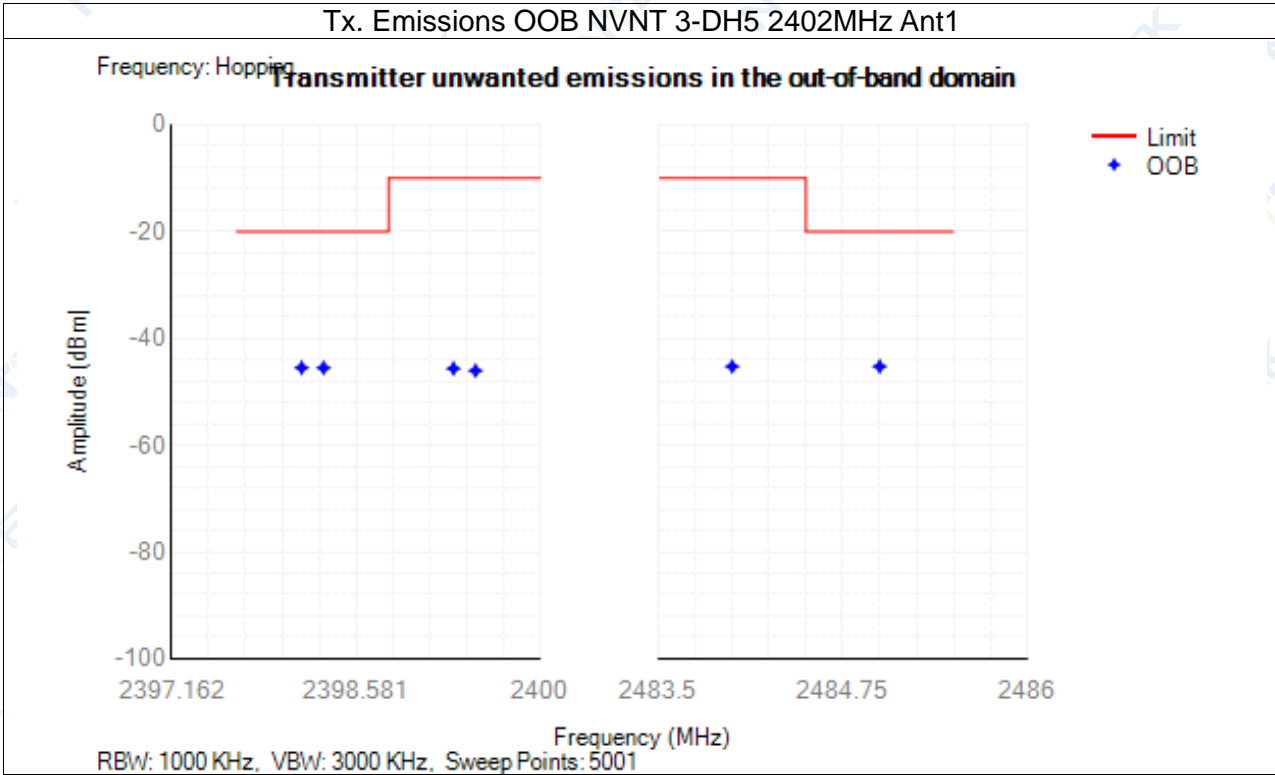


Tx. Emissions OOB NVNT 2-DH5 2402MHz Ant1



Tx. Emissions OOB NVNT 2-DH5 2480MHz Ant1





11.8 Transmitter unwanted emissions in the spurious domain

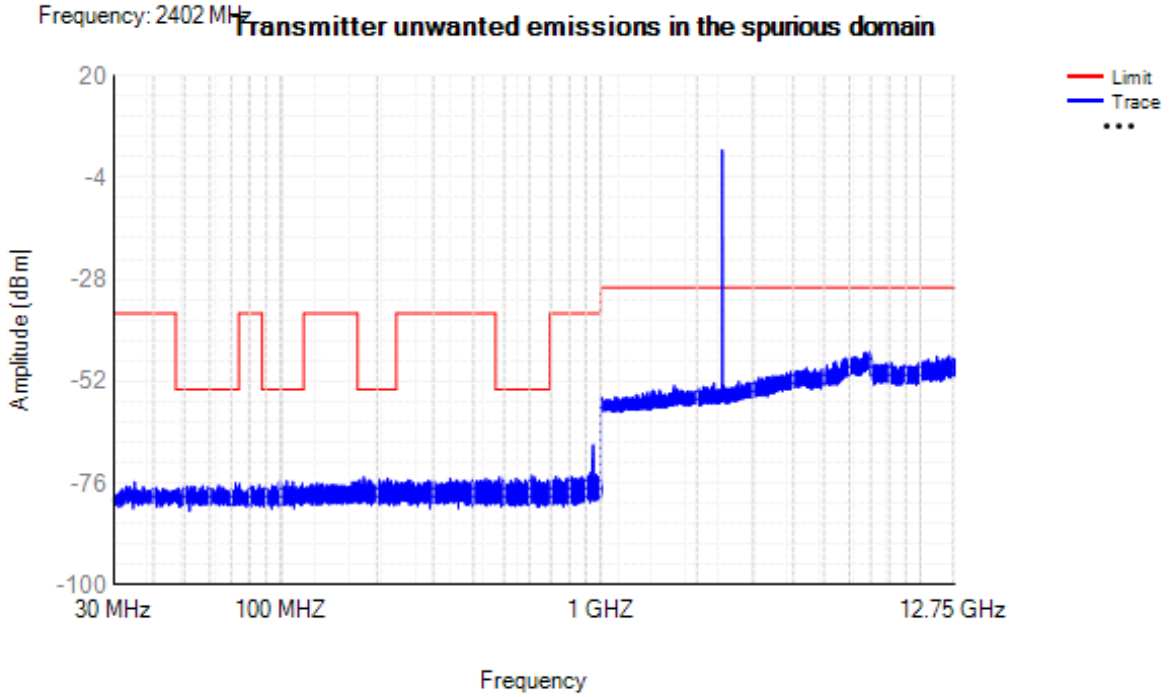
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	30 -47	34.95	-75.76	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	47 -74	72.25	-76.02	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	74 -87.5	74.30	-76.13	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	87.5 -118	104.50	-75.51	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	118 -174	167.50	-75.71	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	174 -230	182.00	-74.58	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	230 -470	338.60	-74.96	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	470 -694	610.65	-74.19	NA	-54	Pass
NVNT	1-DH5	2402	Ant1	694 -1000	948.25	-67.03	NA	-36	Pass
NVNT	1-DH5	2402	Ant1	1000 -2398	2263.00	-52.46	NA	-30	Pass
NVNT	1-DH5	2402	Ant1	2485.5 -12750	6923.50	-45.08	NA	-30	Pass
NVNT	1-DH5	2441	Ant1	30 -47	40.90	-75.97	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	47 -74	72.30	-76.35	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	74 -87.5	74.60	-76.74	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	87.5 -118	108.40	-76.04	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	118 -174	142.45	-75.45	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	174 -230	225.55	-75.30	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	230 -470	234.10	-74.28	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	470 -694	500.60	-74.33	NA	-54	Pass
NVNT	1-DH5	2441	Ant1	694 -1000	948.25	-67.10	NA	-36	Pass
NVNT	1-DH5	2441	Ant1	1000 -2398	2185.00	-53.02	NA	-30	Pass
NVNT	1-DH5	2441	Ant1	2485.5 -12750	6976.50	-44.45	NA	-30	Pass
NVNT	1-DH5	2480	Ant1	30 -47	32.95	-75.57	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	47 -74	52.55	-76.56	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	74 -87.5	75.95	-75.07	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	87.5 -118	105.40	-75.71	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	118 -174	151.80	-75.45	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	174 -230	213.05	-74.45	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	230 -470	319.50	-74.41	NA	-36	Pass
NVNT	1-DH5	2480	Ant1	470 -694	641.70	-74.62	NA	-54	Pass
NVNT	1-DH5	2480	Ant1	694 -1000	948.30	-67.81	NA	-36	Pass

NVNT	1-DH5	2480	Ant1	1000 -2398	1722.50	-52.93	NA	-30	Pass
NVNT	1-DH5	2480	Ant1	2485.5 -12750	6952.00	-44.76	NA	-30	Pass
NVNT	2-DH5	2402	Ant1	30 -47	45.80	-74.87	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	47 -74	65.20	-76.15	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	74 -87.5	74.55	-76.50	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	87.5 -118	111.15	-75.89	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	118 -174	150.95	-75.27	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	174 -230	198.95	-74.90	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	230 -470	367.55	-74.35	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	470 -694	570.10	-74.97	NA	-54	Pass
NVNT	2-DH5	2402	Ant1	694 -1000	948.20	-68.31	NA	-36	Pass
NVNT	2-DH5	2402	Ant1	1000 -2398	2272.00	-53.03	NA	-30	Pass
NVNT	2-DH5	2402	Ant1	2485.5 -12750	6937.00	-44.39	NA	-30	Pass
NVNT	2-DH5	2441	Ant1	30 -47	30.50	-75.76	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	47 -74	58.20	-75.52	NA	-54	Pass
NVNT	2-DH5	2441	Ant1	74 -87.5	84.90	-76.47	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	87.5 -118	88.90	-75.25	NA	-54	Pass
NVNT	2-DH5	2441	Ant1	118 -174	166.45	-75.65	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	174 -230	191.95	-74.83	NA	-54	Pass
NVNT	2-DH5	2441	Ant1	230 -470	449.90	-74.31	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	470 -694	572.25	-74.73	NA	-54	Pass
NVNT	2-DH5	2441	Ant1	694 -1000	948.20	-68.75	NA	-36	Pass
NVNT	2-DH5	2441	Ant1	1000 -2398	1900.50	-53.00	NA	-30	Pass
NVNT	2-DH5	2441	Ant1	2485.5 -12750	6980.00	-45.32	NA	-30	Pass
NVNT	2-DH5	2480	Ant1	30 -47	42.15	-76.42	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	47 -74	63.60	-75.73	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	74 -87.5	81.05	-75.69	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	87.5 -118	94.95	-76.06	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	118 -174	149.25	-75.29	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	174 -230	192.70	-75.26	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	230 -470	340.90	-74.20	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	470 -694	507.05	-74.47	NA	-54	Pass
NVNT	2-DH5	2480	Ant1	694 -1000	948.20	-68.12	NA	-36	Pass
NVNT	2-DH5	2480	Ant1	1000 -2398	2314.50	-53.37	NA	-30	Pass

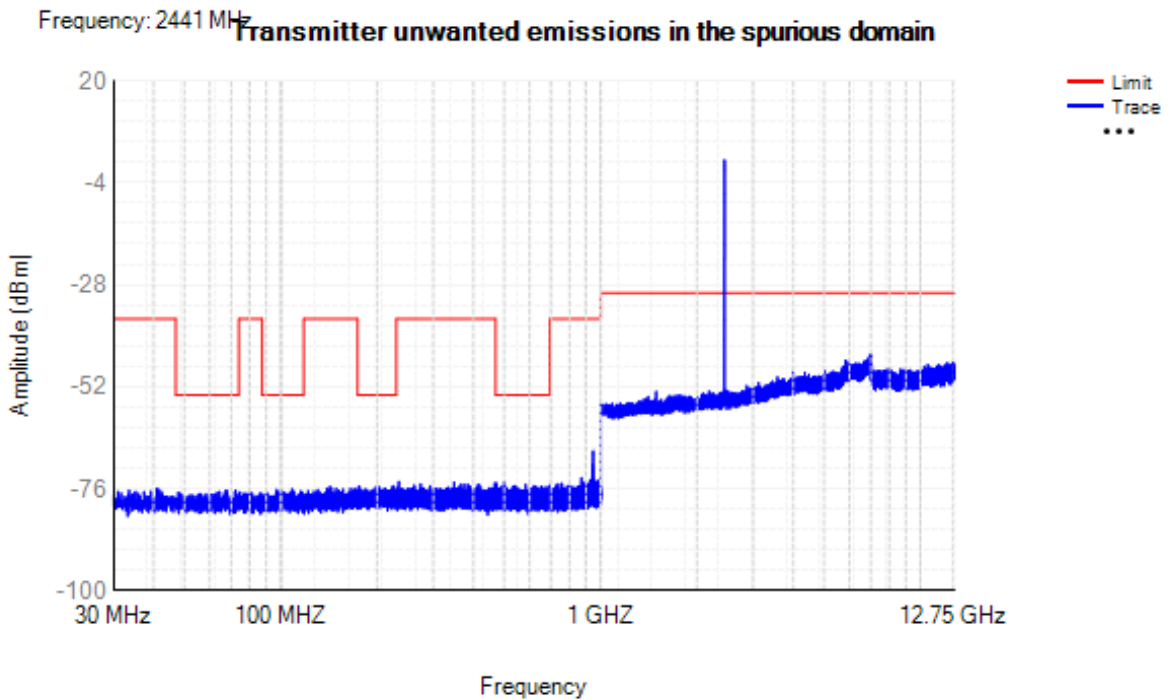
NVNT	2-DH5	2480	Ant1	2485.5 -12750	6868.00	-44.51	NA	-30	Pass
NVNT	3-DH5	2402	Ant1	30 -47	42.80	-75.93	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	47 -74	60.35	-76.42	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	74 -87.5	84.00	-75.99	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	87.5 -118	100.60	-75.99	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	118 -174	145.20	-75.05	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	174 -230	180.90	-74.74	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	230 -470	358.10	-74.35	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	470 -694	540.30	-74.80	NA	-54	Pass
NVNT	3-DH5	2402	Ant1	694 -1000	948.20	-67.51	NA	-36	Pass
NVNT	3-DH5	2402	Ant1	1000 -2398	2174.50	-52.39	NA	-30	Pass
NVNT	3-DH5	2402	Ant1	2485.5 -12750	6957.50	-45.10	NA	-30	Pass
NVNT	3-DH5	2441	Ant1	30 -47	35.45	-76.74	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	47 -74	64.35	-75.75	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	74 -87.5	83.70	-76.62	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	87.5 -118	92.25	-75.58	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	118 -174	137.85	-75.46	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	174 -230	195.60	-74.66	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	230 -470	329.95	-74.70	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	470 -694	547.40	-74.54	NA	-54	Pass
NVNT	3-DH5	2441	Ant1	694 -1000	948.20	-68.05	NA	-36	Pass
NVNT	3-DH5	2441	Ant1	1000 -2398	2003.00	-53.32	NA	-30	Pass
NVNT	3-DH5	2441	Ant1	2485.5 -12750	6921.00	-44.86	NA	-30	Pass
NVNT	3-DH5	2480	Ant1	30 -47	31.10	-75.65	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	47 -74	63.80	-76.34	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	74 -87.5	83.85	-75.97	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	87.5 -118	116.05	-75.52	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	118 -174	168.60	-75.14	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	174 -230	203.65	-74.59	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	230 -470	261.20	-73.15	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	470 -694	681.05	-74.21	NA	-54	Pass
NVNT	3-DH5	2480	Ant1	694 -1000	948.25	-65.63	NA	-36	Pass
NVNT	3-DH5	2480	Ant1	1000 -2398	2347.00	-53.31	NA	-30	Pass
NVNT	3-DH5	2480	Ant1	2485.5 -12750	6882.00	-44.31	NA	-30	Pass

Test Graphs

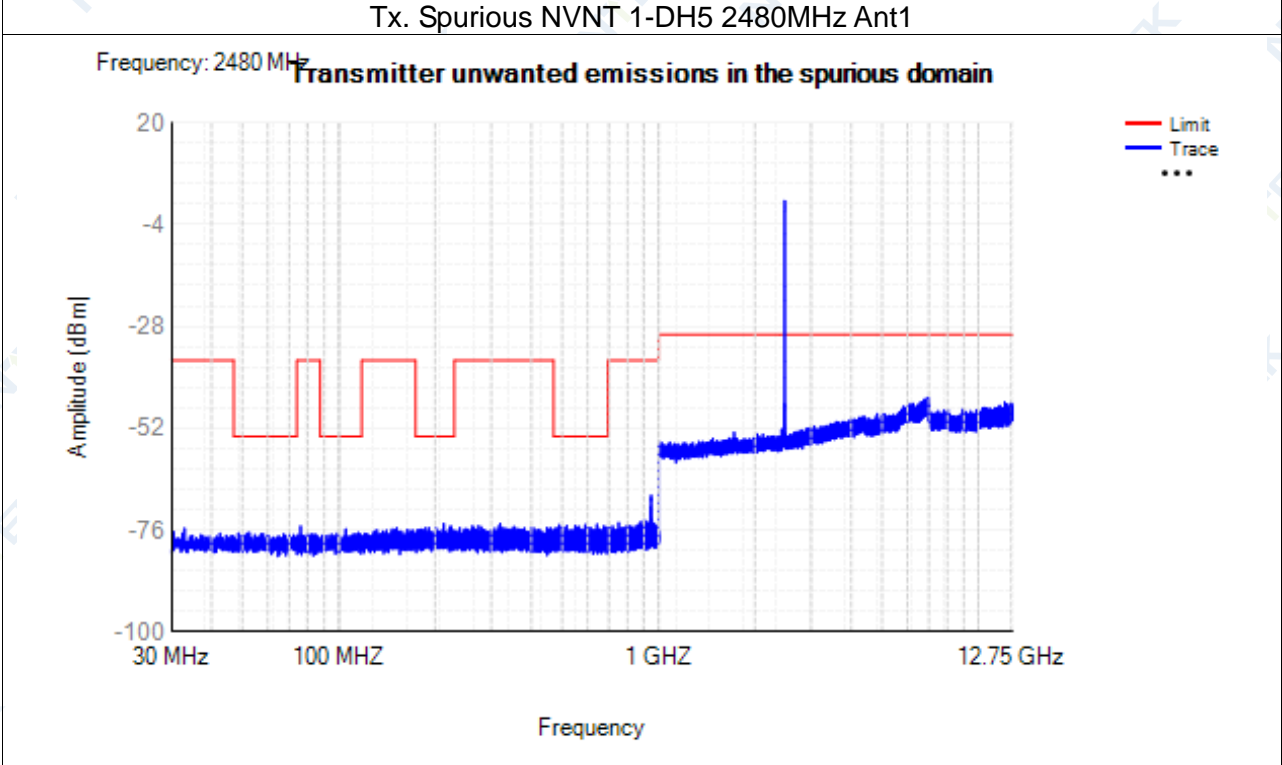
Tx. Spurious NVNT 1-DH5 2402MHz Ant1



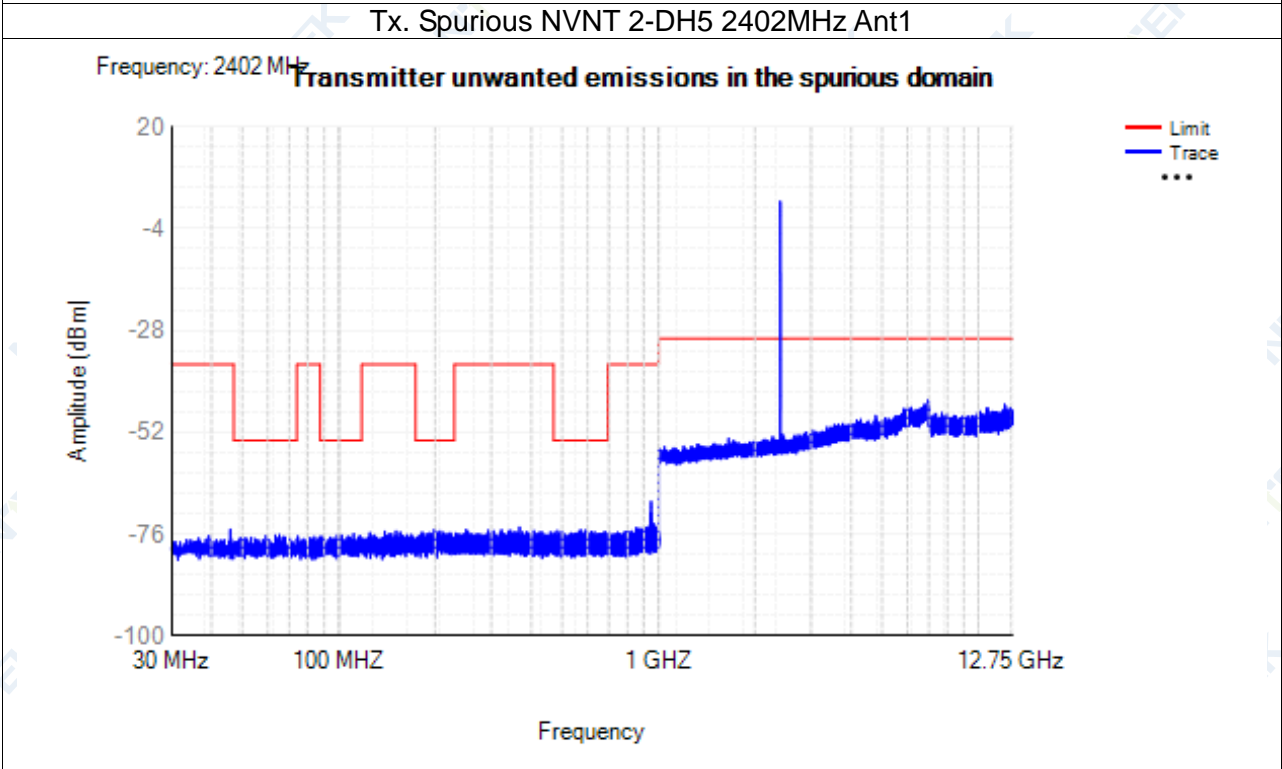
Tx. Spurious NVNT 1-DH5 2441MHz Ant1



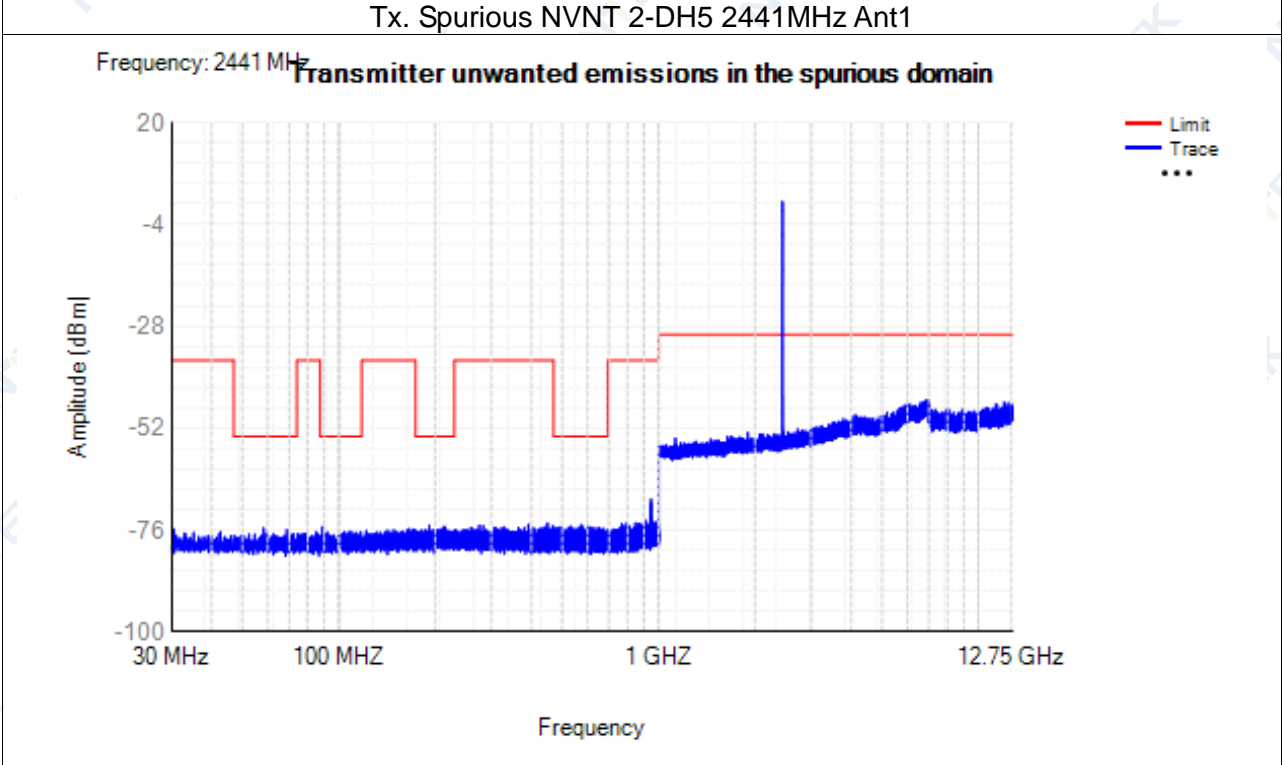
Tx. Spurious NVNT 1-DH5 2480MHz Ant1



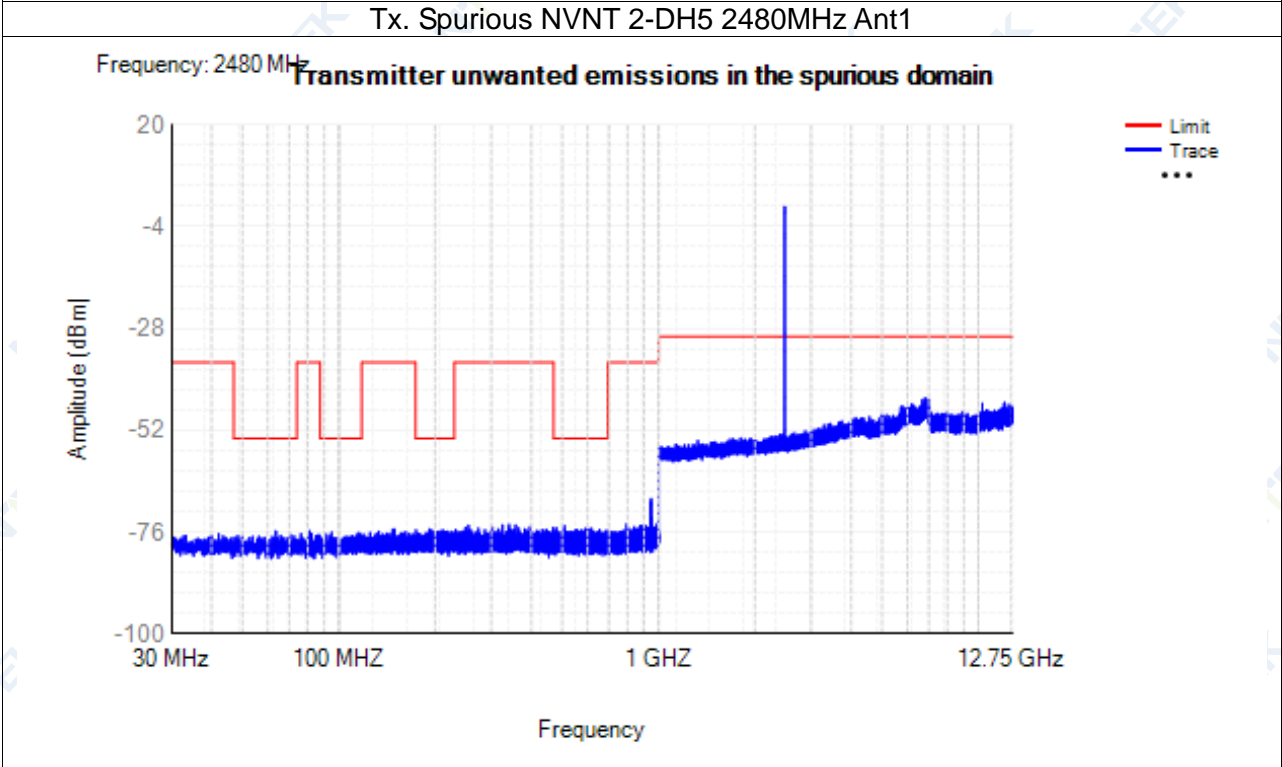
Tx. Spurious NVNT 2-DH5 2402MHz Ant1



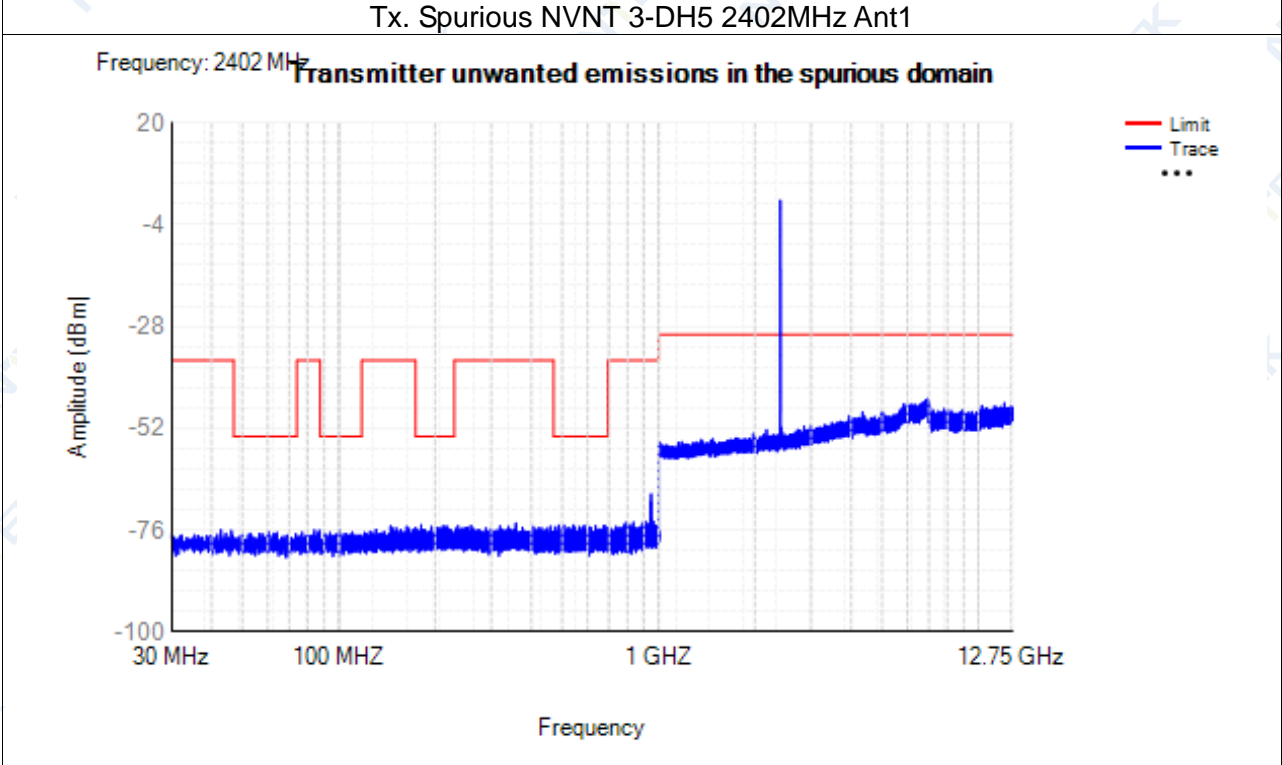
Tx. Spurious NVNT 2-DH5 2441MHz Ant1



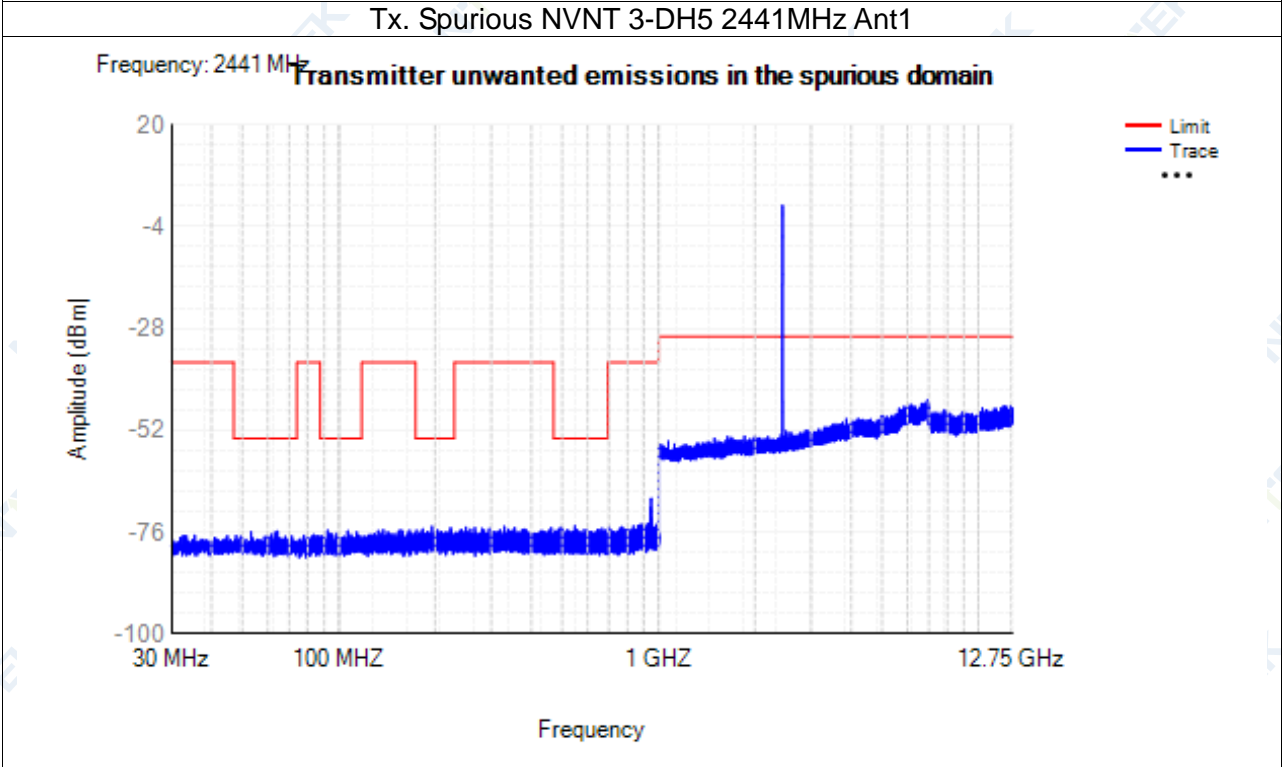
Tx. Spurious NVNT 2-DH5 2480MHz Ant1



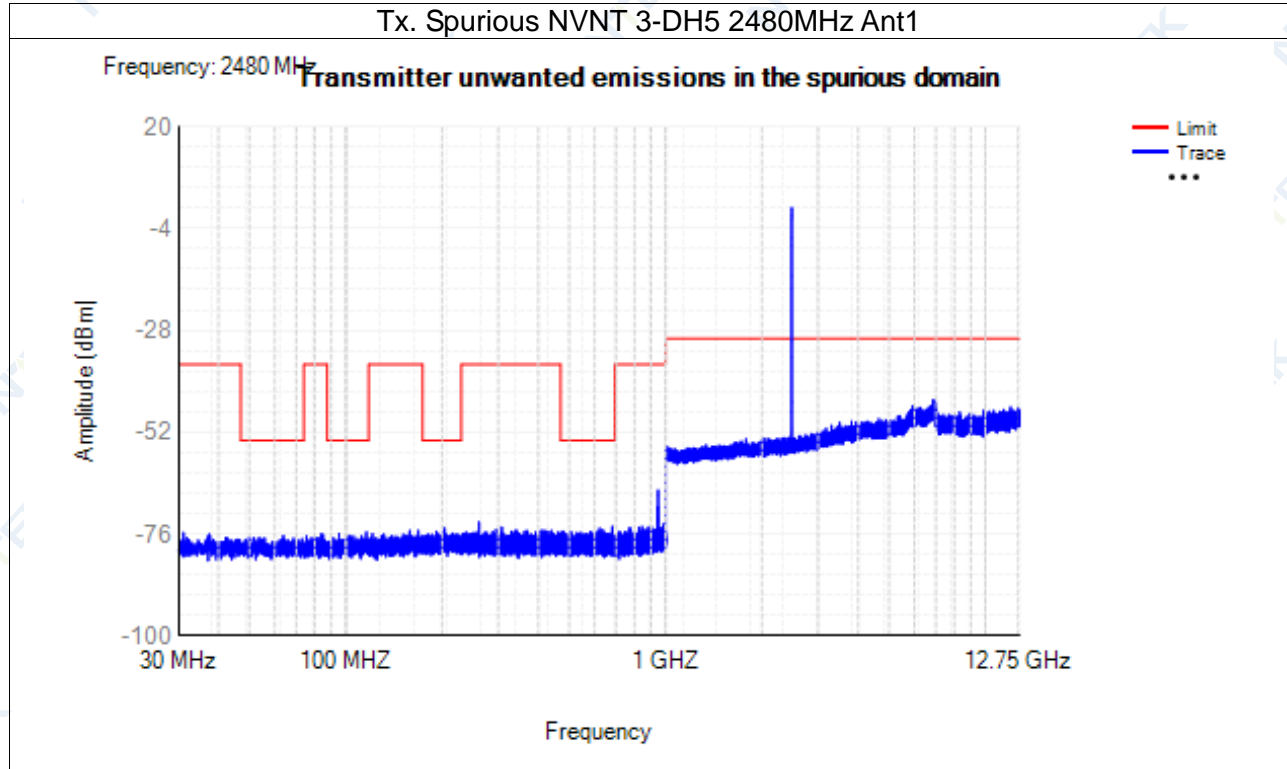
Tx. Spurious NVNT 3-DH5 2402MHz Ant1



Tx. Spurious NVNT 3-DH5 2441MHz Ant1



Tx. Spurious NVNT 3-DH5 2480MHz Ant1

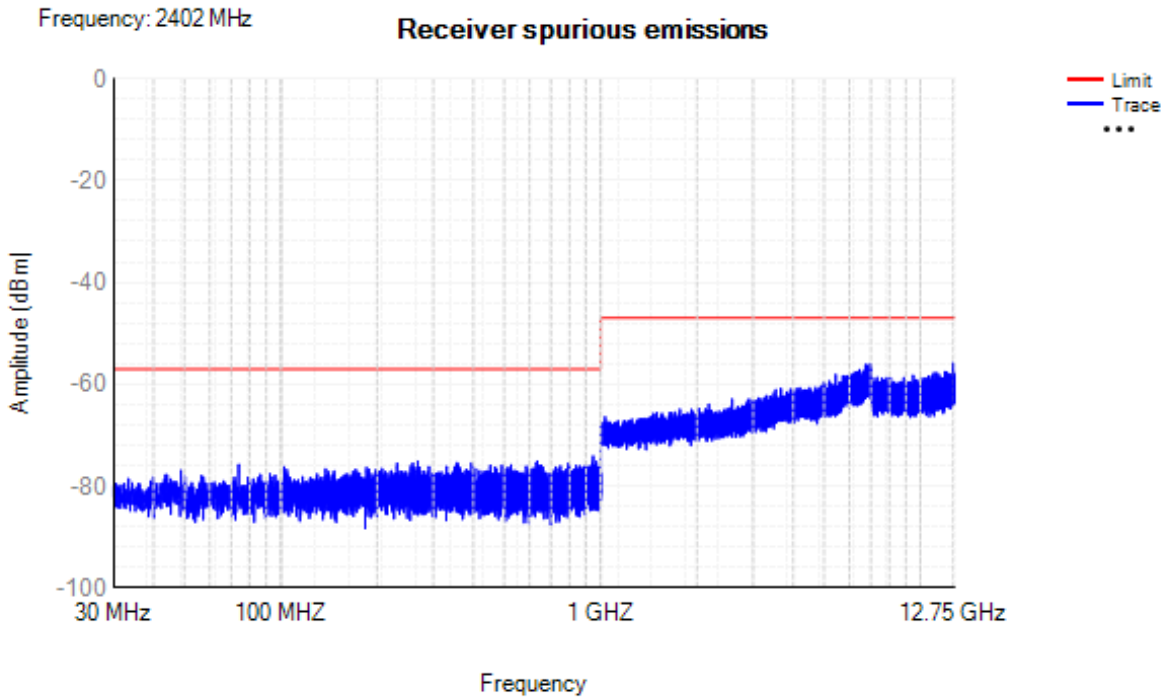


11.9 Receiver spurious emissions

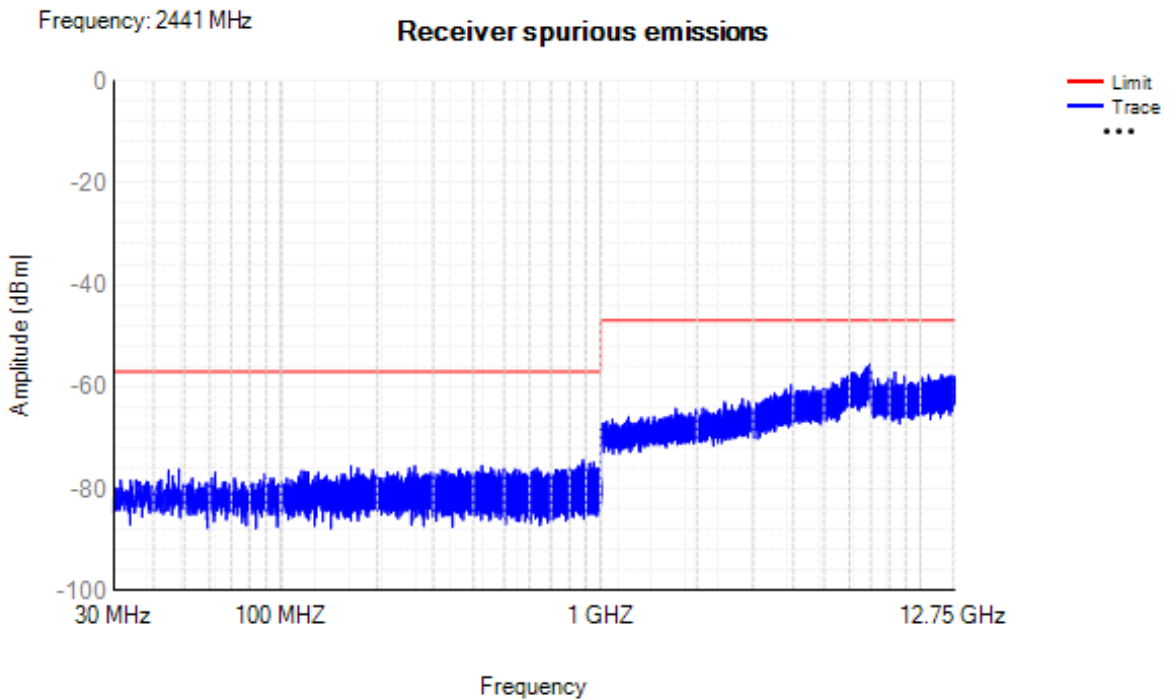
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	30 -1000	947.85	-74.09	NA	-57	Pass
NVNT	1-DH5	2402	Ant1	1000 -12750	12632.5	-55.86	NA	-47	Pass
NVNT	1-DH5	2441	Ant1	30 -1000	881.4	-74.32	NA	-57	Pass
NVNT	1-DH5	2441	Ant1	1000 -12750	6936.5	-55.54	NA	-47	Pass
NVNT	1-DH5	2480	Ant1	30 -1000	984.45	-74.65	NA	-57	Pass
NVNT	1-DH5	2480	Ant1	1000 -12750	6932	-56.10	NA	-47	Pass
NVNT	2-DH5	2402	Ant1	30 -1000	980	-74.60	NA	-57	Pass
NVNT	2-DH5	2402	Ant1	1000 -12750	6929.5	-55.49	NA	-47	Pass
NVNT	2-DH5	2441	Ant1	30 -1000	990.3	-74.59	NA	-57	Pass
NVNT	2-DH5	2441	Ant1	1000 -12750	6982	-55.88	NA	-47	Pass
NVNT	2-DH5	2480	Ant1	30 -1000	590.35	-73.90	NA	-57	Pass
NVNT	2-DH5	2480	Ant1	1000 -12750	6880.5	-54.73	NA	-47	Pass
NVNT	3-DH5	2402	Ant1	30 -1000	819.25	-74.48	NA	-57	Pass
NVNT	3-DH5	2402	Ant1	1000 -12750	6963	-54.76	NA	-47	Pass
NVNT	3-DH5	2441	Ant1	30 -1000	817.5	-74.57	NA	-57	Pass
NVNT	3-DH5	2441	Ant1	1000 -12750	6983.5	-55.62	NA	-47	Pass
NVNT	3-DH5	2480	Ant1	30 -1000	954.35	-74.17	NA	-57	Pass
NVNT	3-DH5	2480	Ant1	1000 -12750	6918.5	-55.01	NA	-47	Pass

Test Graphs

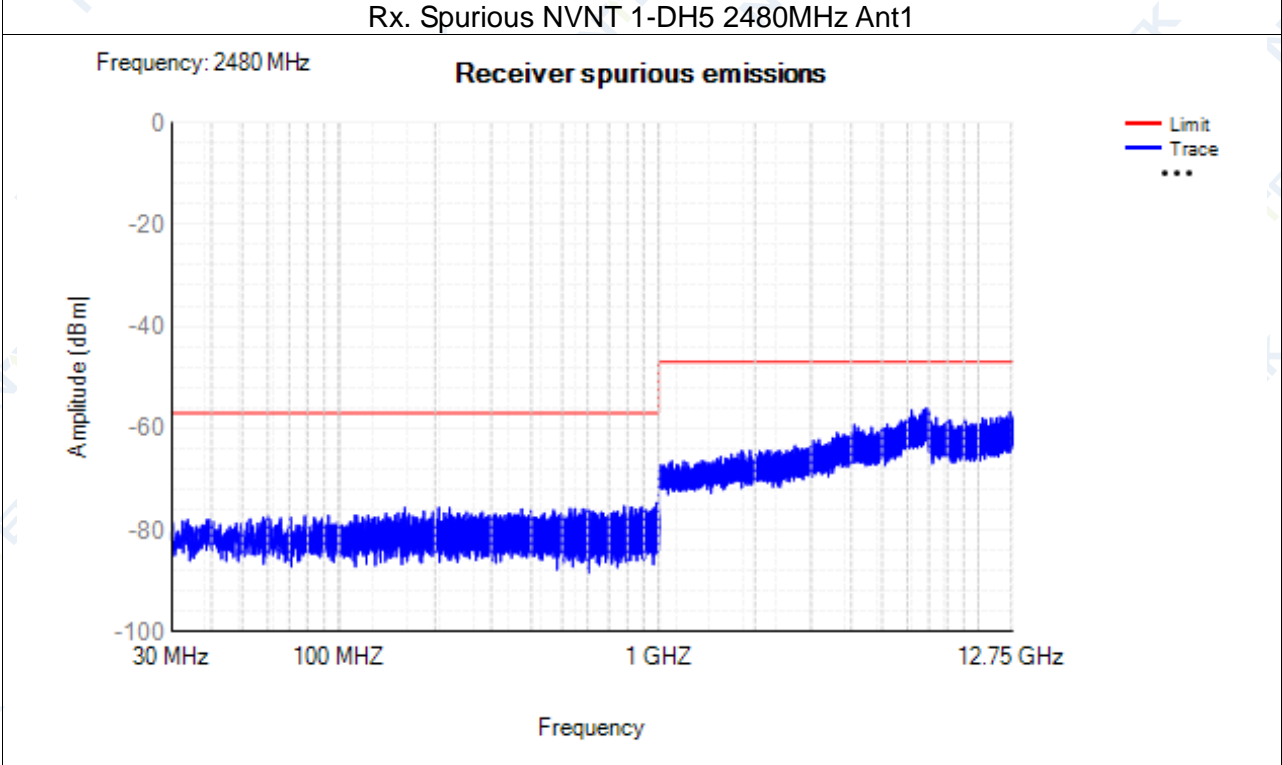
Rx. Spurious NVNT 1-DH5 2402MHz Ant1



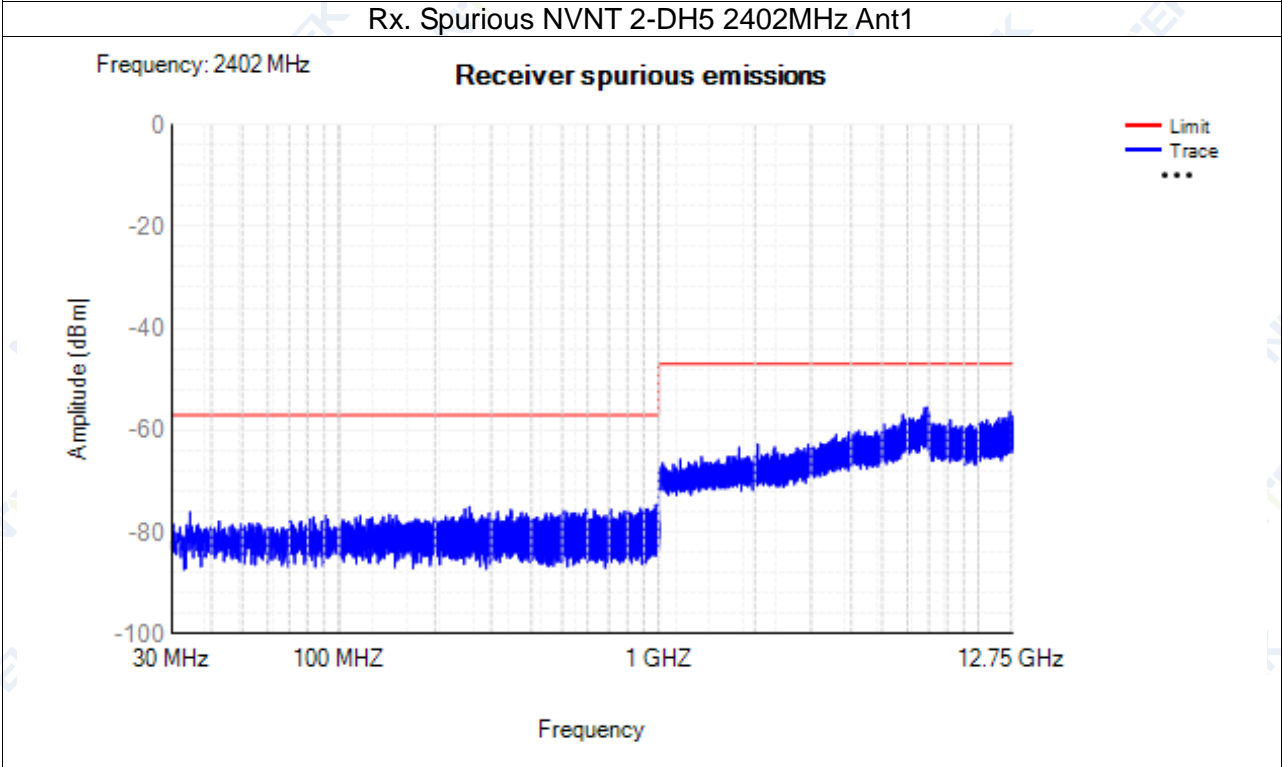
Rx. Spurious NVNT 1-DH5 2441MHz Ant1



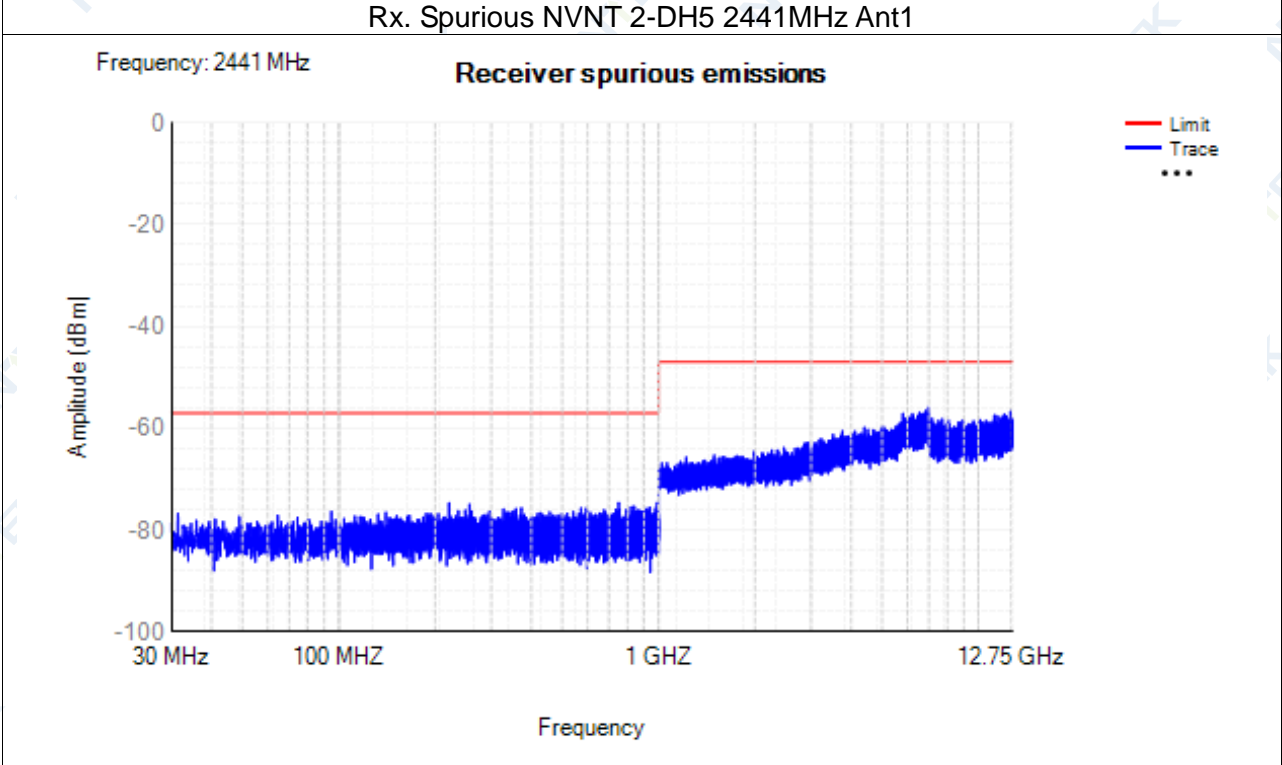
Rx. Spurious NVNT 1-DH5 2480MHz Ant1



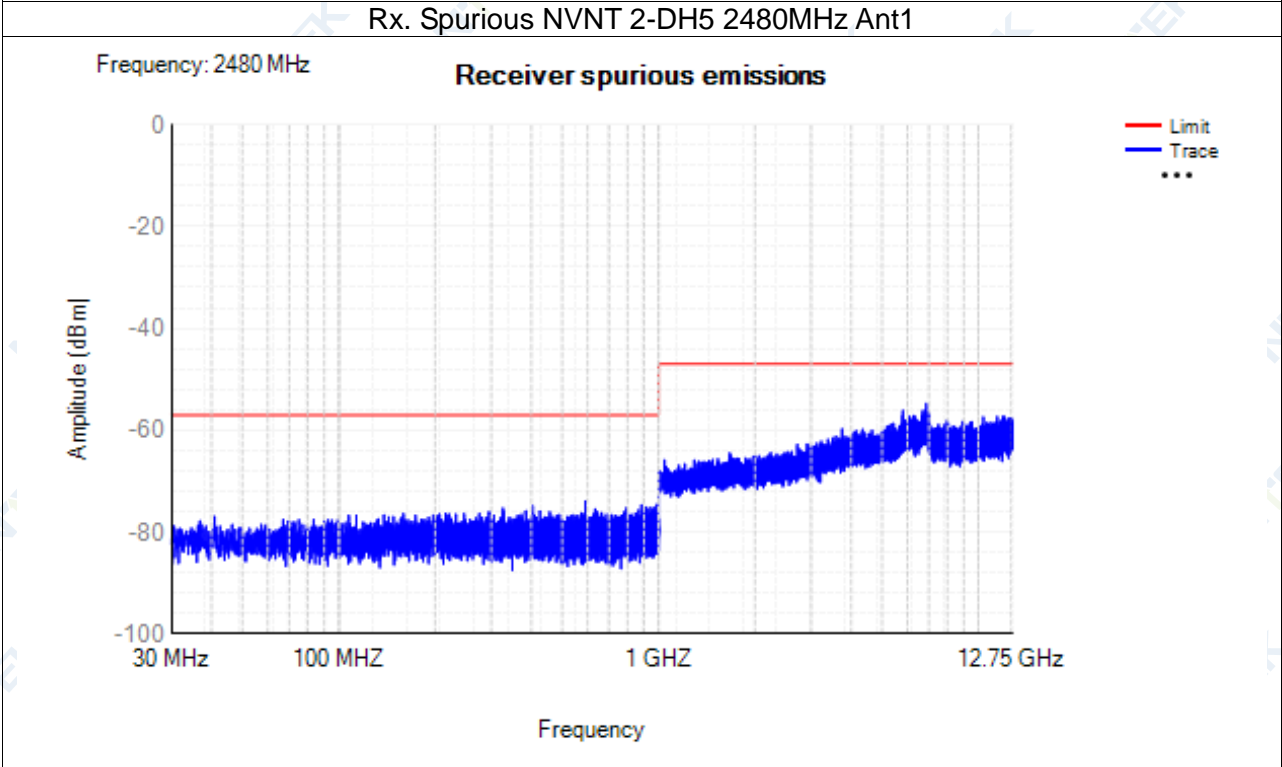
Rx. Spurious NVNT 2-DH5 2402MHz Ant1



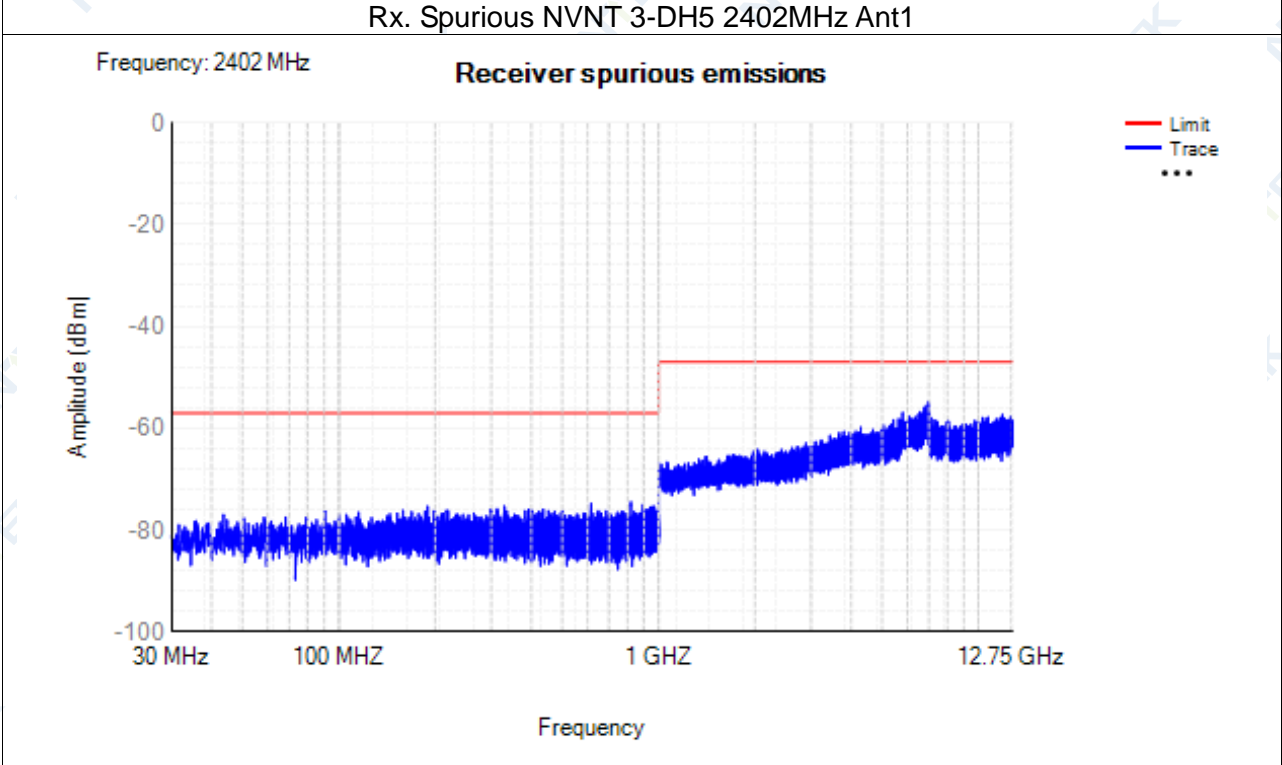
Rx. Spurious NVNT 2-DH5 2441MHz Ant1



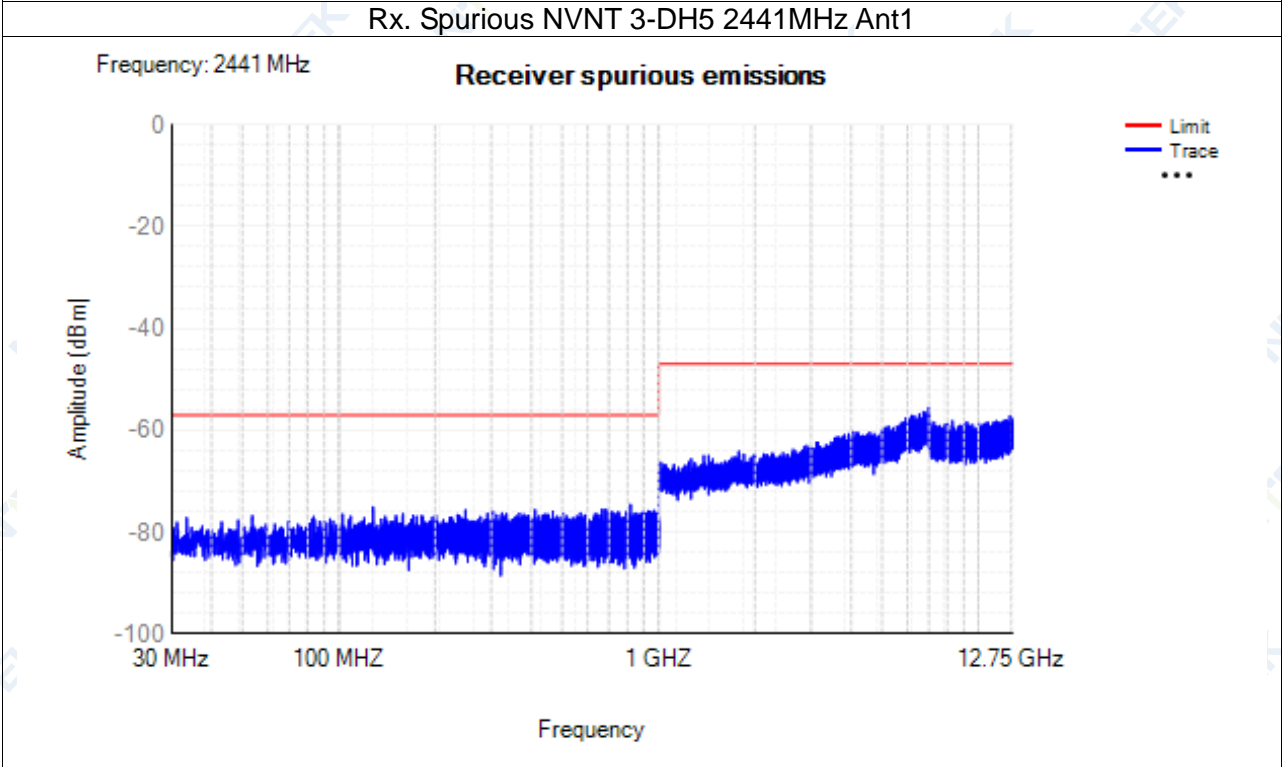
Rx. Spurious NVNT 2-DH5 2480MHz Ant1



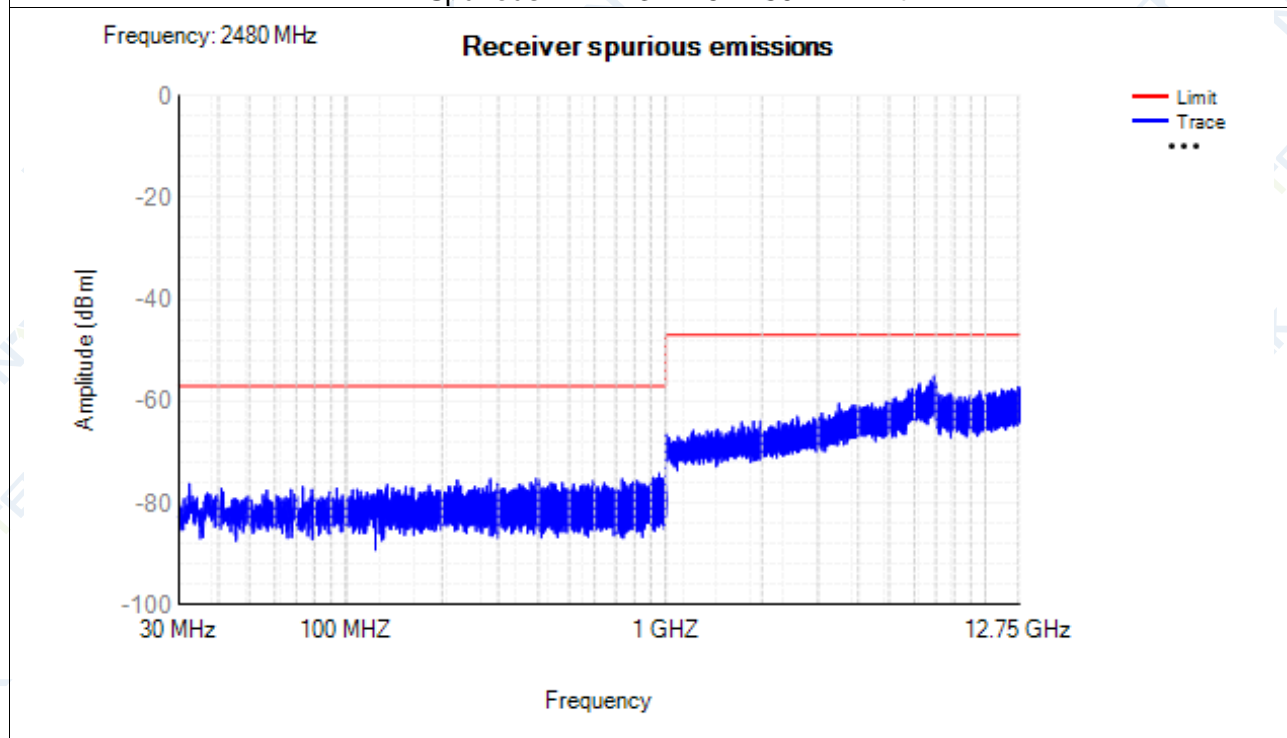
Rx. Spurious NVNT 3-DH5 2402MHz Ant1



Rx. Spurious NVNT 3-DH5 2441MHz Ant1

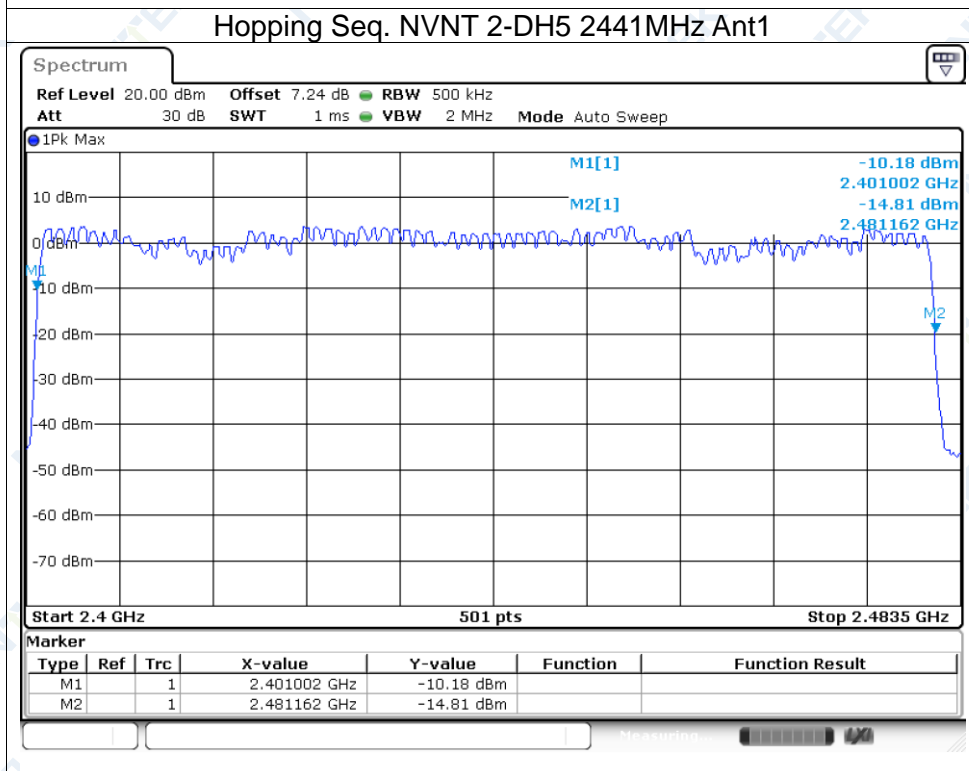
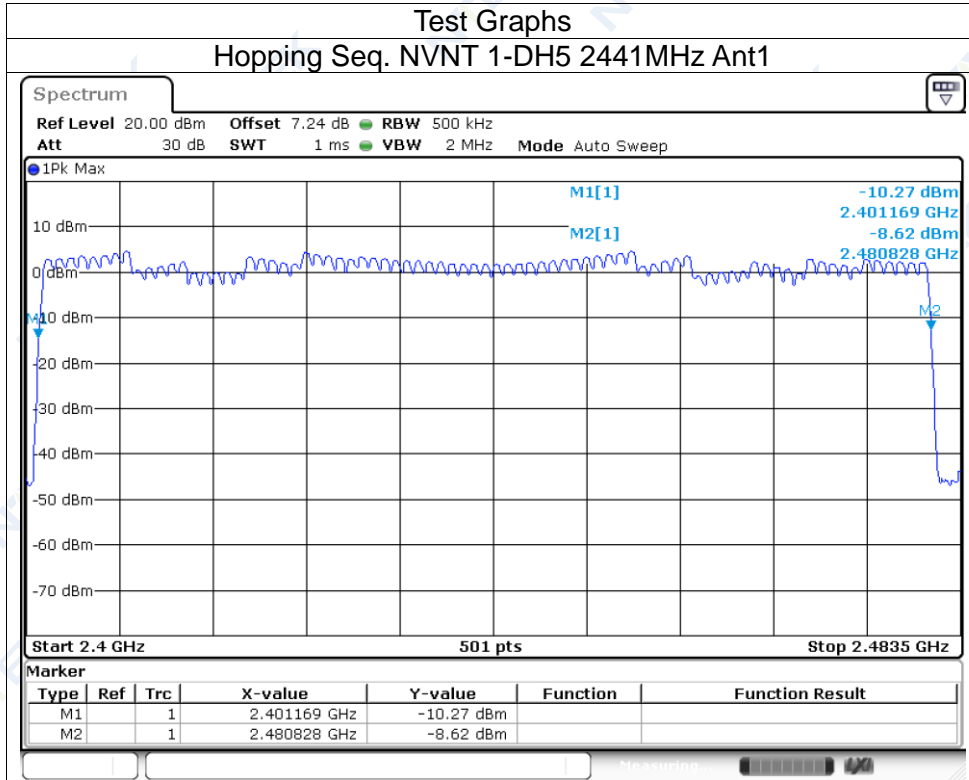


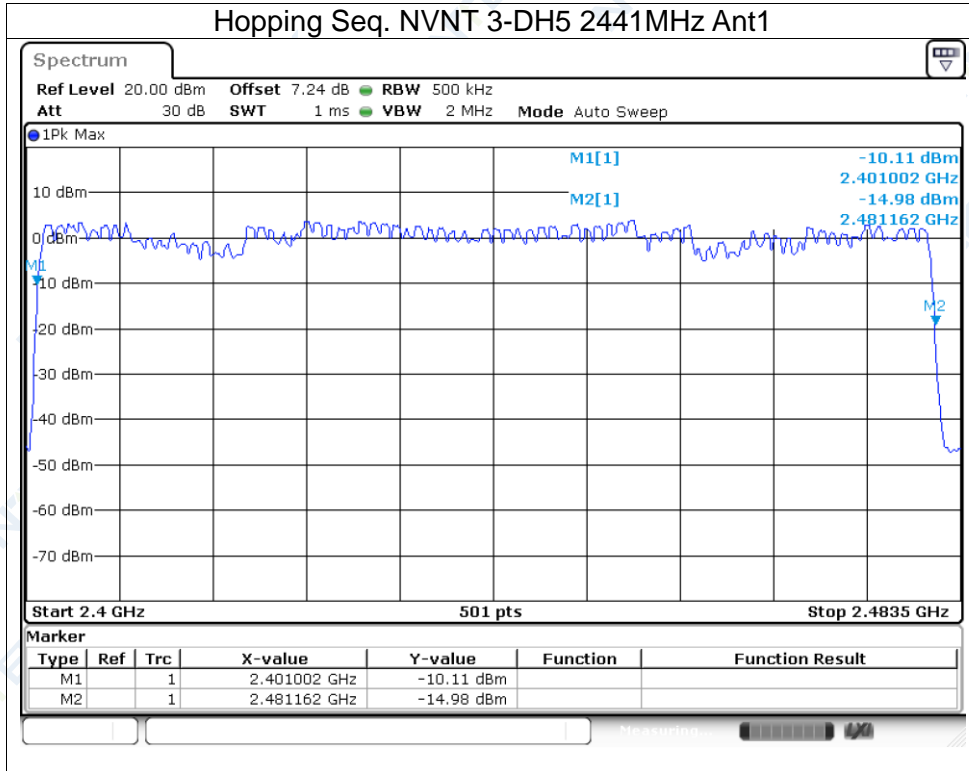
Rx. Spurious NVNT 3-DH5 2480MHz Ant1



11.10 Hopping Sequence

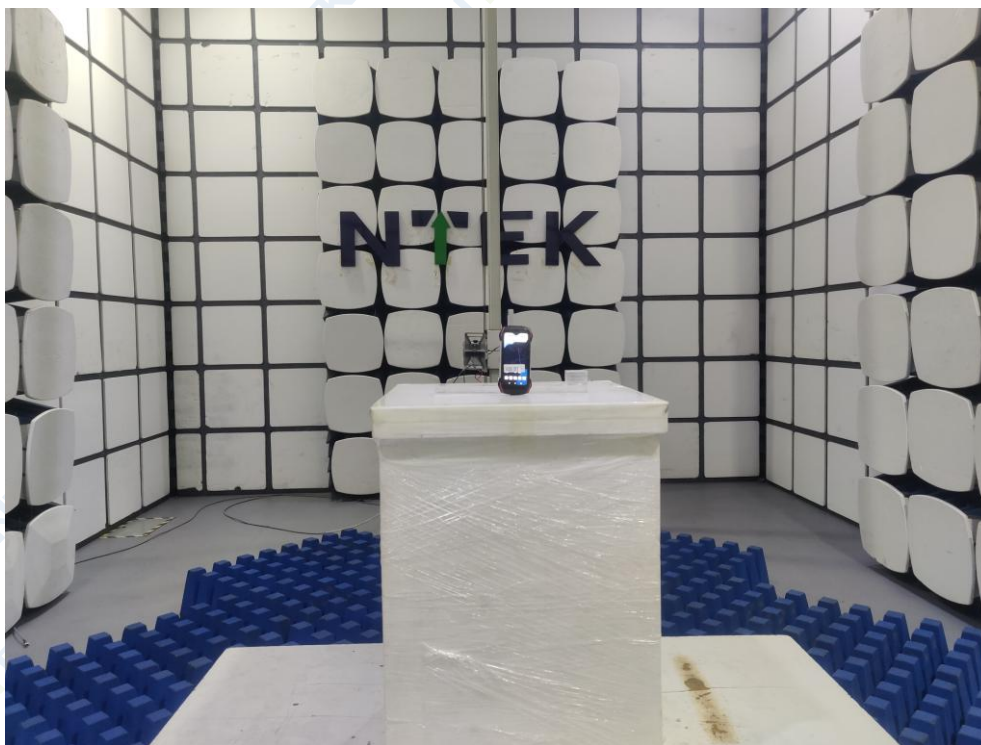
Condition	Mode	Antenna	Hopping Number	Limit	Band Allocation (%)	Limit Band Allocation (%)	Verdict
NVNT	1-DH5	Ant1	79	15	95.4	70	Pass
NVNT	2-DH5	Ant1	79	15	96	70	Pass
NVNT	3-DH5	Ant1	79	15	96	70	Pass





12. EUT TEST PHOTO

SPURIOUS EMISSIONS MEASUREMENT PHOTOS



END OF REPORT