



RADIO TEST REPORT-WIFI

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

Product : Smartphone

Trade Mark : CUBOT

Model Name : A10

Family Model : N/A

Report No. : S24040904103003

Prepared for

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TEST RESULT CERTIFICATION

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Product description

Product name Smartphone
Trademark CUBOT
Model Name A10
Family Model N/A

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

This device described above has been tested by Shenzhen NTEK, and the test results show that the equipment under test (EUT) is in compliance with the 2014/53/EU RED Directive Art.3.2 requirements. And it is applicable only to the tested sample identified in the report.

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Test Sample Number S240409041003

Date of Test

Date (s) of performance of tests Apr 09, 2024 ~ May 13, 2024

Date of Issue May 13, 2024

Test Result **Pass**

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Revision History

Report No.	Version	Description	Issued Date
S24040904103003	Rev.01	Initial issue of report	May 13, 2024

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Smartphone
Trade Mark	CUBOT
Model Name.	A10
Family Model	N/A
Model Difference	N/A
The EUT is Smartphone	
Operation Frequency:	802.11b/g/n(20MHz): 2412~2472MHz 802.11n(40MHz):2422~2462MHz
Modulation Type:	IEEE 802.11b : DSSS (DBPSK, DQPSK, CCK) IEEE 802.11g/n (HT20/HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz) use 800 ns GI: 65.0/58.5/52.0/39.0/26.0/19.5/13.0/6.5 Mbps (MCS0~MCS7) 802.11n(40MHz) use 800 ns GI: 13.5/27/40.5/54/81/108/121.5/135Mbps
Adaptive/non-adaptive	Adaptive equipment
Receiver categories	1
Number Of Channel	Please see Note 2.
Antenna Designation	PIFA Antenna
Antenna Gain(Peak)	1.82 dBi
Channel List	Refer to below
Adapter	Adapter 1: Model: QZ-01001EA00 Input: AC100-240V~50/60Hz 0.3A Output: 5.0V---2.0A (10.0W) Adapter 2: Model: HJ-0502000W2-EU Input: AC100-240V~50/60Hz 0.3A Output: 5.0V---2.0A 10.0W Output Power: 10.0W
Battery	DC 3.87V, 5100mAh, 19.74Wh
Rating	DC 3.87V from battery or DC 5V from adapter
I/O Ports	Refer to users manual
Hardware Version	Q12D V2.0
Software Version	CUBOT_A10_E045C_V01

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452	13	2472
02	2417	06	2437	10	2457		
03	2422	07	2442	11	2462		
04	2427	08	2447	12	2467		

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:

The minimum number of Hopping Frequencies:

- The (average) Dwell Time:

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: 2.412ms

- ☒ 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: / μ s

- ☐ 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
802.11 b
- Power Spectral Density
802.11 b
- Duty cycle, Tx-Sequence, Tx-gap
N/A
- Accumulated Transmit time, Frequency Occupation & Hopping Sequence (only for FHSS equipment)
N/A
- Hopping Frequency Separation (only for FHSS equipment)
N/A
- Medium Utilization
N/A
- Adaptivity
802.11 b
- Nominal Channel Bandwidth
802.11 n40
- Transmitter unwanted emissions in the OOB domain
802.11 b
- Transmitter unwanted emissions in the spurious domain
802.11 n40
- Receiver spurious emissions
802.11 n40
- Receiver Blocking
802.11 b

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: 2412 MHz to 2472 MHz
- Operating Frequency Range 2: 2422 MHz to 2462 MHz

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

j) Nominal Channel Bandwidth(s):

- Nominal Channel Bandwidth 1: 20.078MHz (n20)
- Nominal Channel Bandwidth 2: 42.804MHz(n40)

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: 1.82 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	1.82	14.21	
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 section 1.3

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

IEEE 802.11™ [i.3]

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):

802.11b(CH01) /PER=0.98%

.....

1.3 TEST CONDITIONS AND CHANNEL

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

802.11b/11g/11n(20M)

Test Channel	EUT Channel	Test Frequency (MHz)
lowest	CH01	2412
middle	CH07	2442
highest	CH13	2472

802.11n(40M)

Test Channel	EUT Channel	Test Frequency (MHz)
lowest	CH03	2422
middle	CH07	2442
highest	CH11	2462

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 DESCRIPTION OF TEST CONDITIONS

E-1
EUT

1.5 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	A10	N/A	EUT

Item	Type	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.

1.6 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	2024.03.12	2025.03.11	1 year
Bilog Antenna	TESEQ	CBL6111D	31216	2024.03.11	2025.03.10	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	2022.03.31	2025.03.30	3 year
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.11.07	2025.11.06	3 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	2023.05.29	2024.05.28	1 year
Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.03.12	2025.03.11	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	2023.05.29	2024.05.28	1 year
ESG VETCTOR SIGNAL GENERAROR	Agilent	E4438C	MY45093347	2024.04.13	2025.04.12	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	2023.07.04	2026.07.03	3 year
Attenuator	Agilent	8495B	MY42147029	2023.03.27	2026.03.26	3 year
Power Meter	DARE	RPR3006W	15I00041SNO 84	2023.05.29	2024.05.28	1 year
MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2023.05.29	2024.05.28	1 year
Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	2023.05.29	2024.05.28	1 year
temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

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		
4.3.2.2	RF Output Power	Pass
4.3.2.3	Power Spectral Density	Pass
4.3.2.4	Duty cycle, Tx-Sequence, Tx-gap	Not Applicable (See Note 1/2)
4.3.2.5	Medium Utilization (MU) factor	Not Applicable (See Note 1/2)
4.3.2.6	Adaptivity	Pass
4.3.2.7	Occupied Channel Bandwidth	Pass
4.3.2.8	Transmitter unwanted emission in the OOB domain	Pass
4.3.2.9	Transmitter unwanted emissions in the spurious domain	Pass
RECEIVER PARAMETERS		
4.3.2.10	Receiver Spurious Emissions	Pass
4.3.2.11	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&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei Community,
Hangcheng Street, Baoan District, Shenzhen ,Guangdong, China

FCC Registered No.: 463705 IC Registered No.:9270A

CNAS Registration No.:L5516

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	Radio Frequency	$\pm 1.38\text{dB}$
2	Total RF power, conducted	$\pm 0.16\text{dB}$
3	RF power density, conducted	$\pm 0.16\text{dB}$
4	All emissions,radiated	$\pm 0.21\text{dB}$
5	Temperature	$\pm 0.5^{\circ}\text{C}$
6	Humidity	$\pm 2\%$
7	DC and low Frequency voltages	$\pm 0.04\%$

2.3 MAXIMUM MEASUREMENT UNCERTAINTY (FOR ETSI EN 300 328)

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	$\pm 5\%$

3. TEST PROCEDURES AND RESULTS

3.1 EQUIVALENT ISOTROPIC RADIATED POWER

3.1.1 LIMITS OF EQUIVALENT ISOTROPIC RADIATED POWER

Refer to chapter 4.3.2.2.3 of ETSI EN 300 328 V2.2.2 (2019-07)

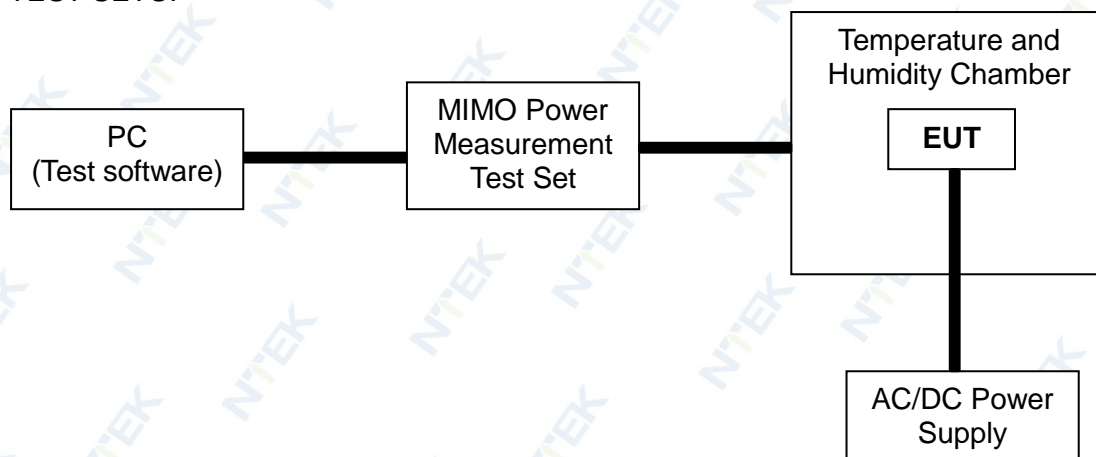
RF OUTPUT POWER	
Condition	Limit
<input type="checkbox"/> Non-adaptive wide band modulations systems	Equal to or less than the value declared by the supplier. This declared value shall be equal to or less than 20 dBm.
<input checked="" type="checkbox"/> Adaptive wide band modulations systems	≤20dBm

3.1.2 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

3.1.3 TEST SETUP



3.1.4 TEST RESULTS

EUT :	Smartphone	Model Name :	A10
Temperature :	20°C	Relative Humidity:	55 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	802.11 b/g/n(HT20, HT40) Mode		

Test data reference attachment

3.2. PEAK POWER DENSITY

3.2.1 LIMITS OF POWER SPECTRAL DENSITY

Refer to chapter 4.3.2.3.3 of ETSI EN 300 328 V2.2.2 (2019-07)

RF OUTPUT POWER	
Condition	Limit
For equipment using wide band modulations other than FHSS	≤ 10 dBm/MHz

3.2.2 TEST PROCEDURE

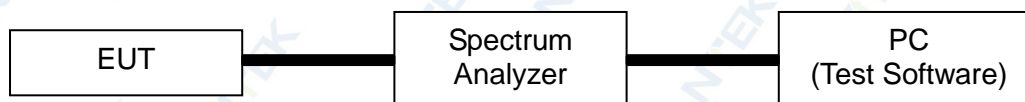
Refer to chapter 5.4.3.2 of ETSI EN 300 328 V2.2.2 (2019-07)

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

The setting of the Spectrum Analyzer

Start Frequency	2400MHz
Stop Frequency	2483.5MHz
Detector	RMS
Sweep Point	> 8 350; for spectrum analysers not supporting this number of sweep points, the frequency band may be segmented
Sweep time:	For non-continuous transmissions: $2 \times$ Channel Occupancy Time \times number of sweep points For continuous transmissions: 10 s; the sweep time may be increased further until a value where the sweep time has no further impact anymore on the RMS value of the signal.
RBW / VBW	10KHz / 30KHz

3.2.3 TEST SETUP



3.2.4 TEST RESULTS

EUT :	Smartphone	Model Name :	A10
Temperature :	26°C	Relative Humidity:	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	802.11 b/g/n(HT20, HT40) Mode		

Test data reference attachment

3.3. OCCUPIED CHANNEL BANDWIDTH

3.3.1 LIMITS OF OCCUPIED CHANNEL BANDWIDTH

Refer to chapter 4.3.2.7.3 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 E.I.R.P >10 dBm	Less than 20 MHz
	For non-adaptive frequency hopping system and E.I.R.P >10 dBm	Less than 5 MHz

3.3.2 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

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 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. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator. Controlling software has been activated to set the EUT on specific status.

3.3.5 TEST RESULTS

EUT :	Smartphone	Model Name :	A10
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	802.11b/g/n(HT20, HT40) Mode CH1 / CH13, CH3 / CH11		

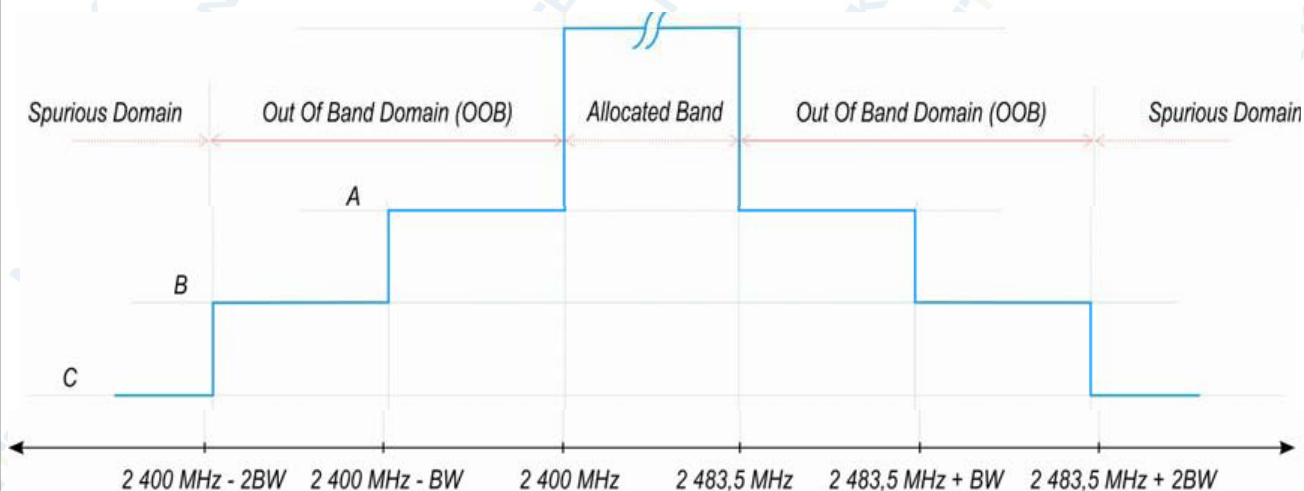
Test data reference attachment

3.4. TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

3.4.1 LIMITS OF TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

Refer to chapter 4.3.2.8.3 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.



A: -10 dBm/MHz e.i.r.p.

B: -20 dBm/MHz e.i.r.p.

C: Spurious Domain limits

BW = Occupied Channel Bandwidth in MHz or 1 MHz whichever is greater

3.4.2 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

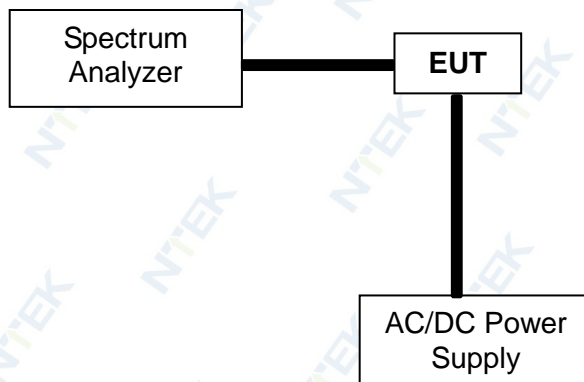
The setting of the Spectrum Analyzer

Span	0Hz
Filter Mode	Channel Filter
Trace Mode	Max Hold
Trigger Mode	Video trigger; in case video triggering is not possible, an external trigger source may be used
Detector	RMS
Sweep Point / Sweep Mode	Sweep Time [s] / (1 μ s) or 5 000 whichever is greater/ Continuous
RBW / VBW	1MHz / 3MHz

3.4.3 DEVIATION FROM TEST STANDARD

No deviation

3.4.4 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.

3.4.5 TEST RESULTS

EUT :	Smartphone	Model Name :	A10
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Power :	DC 3.87V
Test Mode :	802.11 b/g/n(HT20, HT40) Mode		

Test data reference attachment

3.5. ADAPTIVE (CHANNEL ACCESS MECHANISM)

3.5.1 APPLICABILITY OF ADAPTIVE REQUIREMENTS AND LILT FOR WIDE BAND MODULATION TECHNIQUES

Refer to chapter 4.3.2.6 of ETSI EN 300 328 V2.2.2 (2019-07)

Requirement	Operational Mode			
	<input type="checkbox"/> Non-LBT based Detect and Avoid	<input checked="" type="checkbox"/> LBT based Detect and Avoid		
		<input type="checkbox"/> Frame Based Equipment	<input checked="" type="checkbox"/> Load Based Equipment (CCA using 'energy detect')	<input type="checkbox"/> Load Based Equipment (CCA not using any of the mechanisms referenced as note 2)
Minimum Clear Channel Assessment (CCA) Time	NA	not less than 18 us (see note 1)	(see note 2)	not less than 18 us (see note 1)
Maximum Channel Occupancy (COT) Time	< 40 ms	1ms to 10 ms	(see note 2)	(13/32)*q ms (see note 3)
Minimum Idle Period	5 % minimum of 100 µs	5% of COT	(see note 2)	NA
Extended CCA check	NA	NA	(see note 2)	R*CCA (see note 4)
Short Control Signalling Transmissions	Maximum duty cycle of 10% within an observation period of 50 ms (see note 5)			

Note 1: The CCA time used by the equipment shall be declared by the supplier.

Note 2: Load Based Equipment may implement an LBT based spectrum sharing mechanism based on the Clear Channel Assessment (CCA) mode using energy detect as described in IEEE 802.11™-2012 [i.3], clause 9, clause 10, clause 16, clause 17, clause 19 and clause 20, or in IEEE 802.15.4™-2011 [i.4], clause 4, clause 5 and clause 8 providing the equipment complies with the conformance requirements referred to in clause 4.3.2.6.3.4.

Note 3: q is selected by the manufacturer in the range [4...32]

Note 4: The value of R shall be randomly selected in the range [1...q]

Note 5: Adaptive equipment may or may not have Short Control Signaling Transmissions.

Interference threshold level

The detection threshold shall be proportional to the transmit power of the transmitter: for a 20 dBm e.i.r.p. transmitter the detection threshold level (TL) shall be equal to or less than -70 dBm/MHz at the input to the receiver assuming a 0 dBi (receive) antenna assembly. This threshold level (TL) may be corrected for the (receive) antenna assembly gain (G); however, beamforming gain (Y) shall not be taken into account. For power levels less than 20 dBm e.i.r.p., the detection threshold level may be relaxed to:

$$TL = -70 \text{ dBm/MHz} + 10 \times \log_{10} (100 \text{ mW} / P_{out}) \text{ (Pout in mW e.i.r.p.)}$$

Table 9: Unwanted Signal parameters

Wanted signal mean power from companion device (dBm)	Unwanted signal frequency (MHz)	Unwanted CW signal power (dBm)
-30/ sufficient to maintain the link(see note 2)	2 395 or 2 488,5 (see note 1)	-35 (see note 2)
<p>NOTE 1: The highest frequency shall be used for testing operating channels within the range 2 400 MHz to 2 442 MHz, while the lowest frequency shall be used for testing operating channels within the range 2 442 MHz to 2 483,5 MHz. See clause 5.4.6.1.</p> <p>NOTE 2: A typical value which can be used in most cases is -50 dBm/MHz.</p> <p>NOTE 3: The level specified is the level in front of the UUT antenna. In case of conducted measurements, this level has to be corrected by the actual antenna assembly gain.</p>		

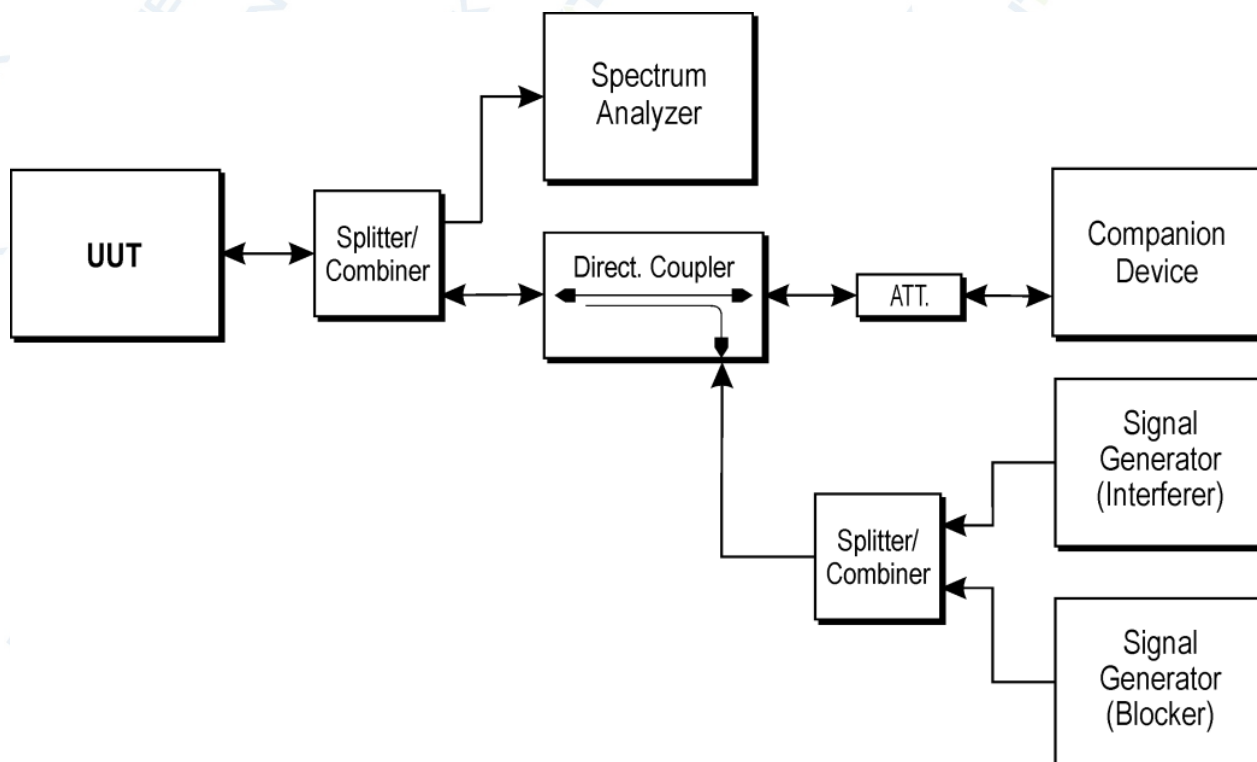
3.5.2 TEST PROCEDURE

Refer to chapter 5.4.6.2 of ETSI EN 300 328 V2.2.2 (2019-07)

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

Test method please refer to the 5.4.6.2.1.4 of ETSI EN 300 328 V2.2.2 (2019-07).

3.5.3 TEST SETUP CONFIGURATION



3.5.4 LIST OF MEASUREMENTS

UUT operational Mode		
Frame Based Equipment	Load Based Equipment (CCA using 'energy detect')	Load Based Equipment (CCA not using any of the mechanisms referenced)
	V	

Clause	Test Parameter	Remarks	PASS/FAIL
4.3.2.5.2.2.1	Adaptive (Frame Based Equipment)	Not Applicable	N/A
4.3.2.5.2.2.2	Adaptive (Load Based Equipment)	Applicable	PASS
4.3.2.5.3	Short Control Signaling Transmissions	Applicable	PASS

3.5.5 INTERFERENCE THRESHOLD LEVEL

EUT :	Smartphone	Model Name :	A10
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Power :	DC 3.87V
Test Mode :	802.11b/g/n(HT20,HT40) Mode CH1 / CH13,CH3/CH11		

Test data reference attachment

3.6. TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

3.6.1 LIMITS OF TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

Refer to chapter 4.3.2.9.3 of ETSI EN 300328 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

3.6.2 TEST PROCEDURE

Refer to chapter 5.4.9.2 of ETSI EN 300328 V2.2.2 (2019-07)

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

The setting of the Spectrum Analyzer

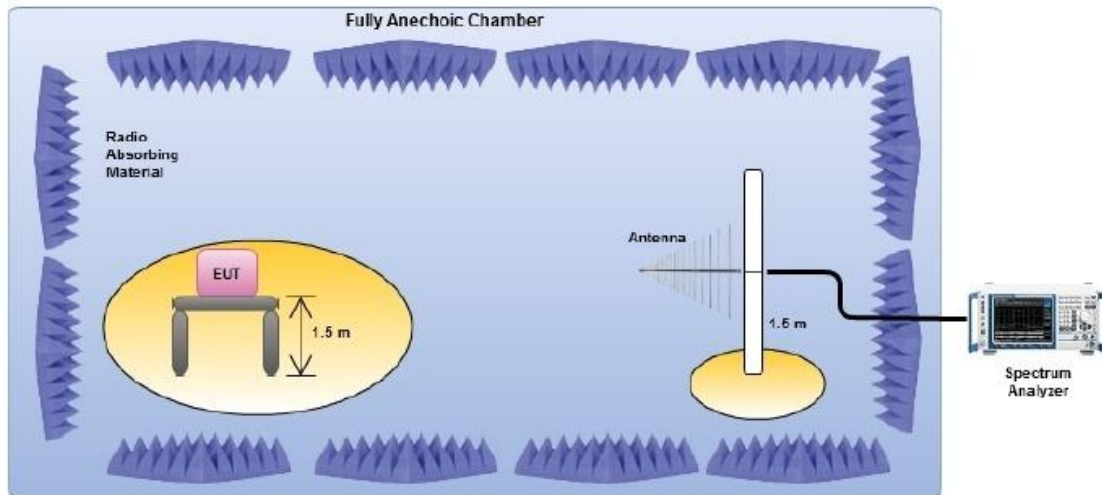
RBW	100K(<1GHz) / 1M(>1GHz)
VBW	300K(<1GHz) / 3M(>1GHz)

3.6.3 DEVIATION FROM TEST STANDARD

No deviation

3.6.4 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 has been activated to set the EUT on specific status.

3.6.5 TEST RESULTS (Radiated measurement)

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

EUT :	Smartphone	Model Name :	A10
Temperature :	24°C	Relative Humidity :	57 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX-802.11b Mode(CH01)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	42.719	-56.3	10.22	-46.08	-36	-10.08	peak
V	100.456	-73.62	11.07	-62.55	-54	-8.55	peak
V	229.466	-73.07	10.57	-62.50	-54	-8.50	peak
V	378.082	-59.18	11.34	-47.84	-36	-11.84	peak
V	659.994	-74.01	11.42	-62.59	-54	-8.59	peak
H	41.944	-58.93	11.02	-47.91	-36	-11.91	peak
H	105.927	-76.86	9.73	-67.13	-54	-13.13	peak
H	211.816	-75.4	10.82	-64.58	-54	-10.58	peak
H	291.622	-55.46	11.39	-44.07	-36	-8.07	peak
H	568.673	-76.09	9.61	-66.48	-54	-12.48	peak

Remark:

1. Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.
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 :	A10
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX-802.11b Mode(CH01/CH7/CH13)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBm)	Factor (dB)	Emission Level (dBm)	Limits (dBm)	Margin (dB)	Remark
operation frequency:2412							
V	2411.175	-65.49	10.03	-55.46	-30	-25.46	peak
V	4769.938	-59.86	10.14	-49.72	-30	-19.72	peak
V	2966.635	-63.59	10.68	-52.91	-30	-22.91	peak
V	4251.407	-59.71	9.58	-50.13	-30	-20.13	peak
H	2219.029	-62.81	11.39	-51.42	-30	-21.42	peak
H	5710.305	-64.14	9.98	-54.16	-30	-24.16	peak
H	2233.277	-67.01	11.21	-55.80	-30	-25.80	peak
H	4515.465	-59.12	9.93	-49.19	-30	-19.19	peak
operation frequency:2442							
V	2768.327	-63	10.83	-52.17	-30	-22.17	peak
V	3455.67	-62.03	11.20	-50.83	-30	-20.83	peak
V	2954.172	-57.82	11.25	-46.57	-30	-16.57	peak
V	3538.515	-61.71	10.45	-51.26	-30	-21.26	peak
H	2631.759	-67.74	11.14	-56.60	-30	-26.60	peak
H	5166.519	-63.84	9.81	-54.03	-30	-24.03	peak
H	2636.864	-58.39	10.20	-48.19	-30	-18.19	peak
H	3806.752	-63.42	11.06	-52.36	-30	-22.36	peak
operation frequency:2472							
V	2785.137	-66.24	10.28	-55.96	-30	-25.96	peak
V	4297.832	-61.94	11.24	-50.70	-30	-20.70	peak
V	2462.198	-64.21	10.06	-54.15	-30	-24.15	peak
V	4274.091	-66.57	9.82	-56.75	-30	-26.75	peak
H	2968.171	-59.34	10.43	-48.91	-30	-18.91	peak
H	3732.293	-64.16	10.31	-53.85	-30	-23.85	peak
H	2023.244	-59.06	10.24	-48.82	-30	-18.82	peak
H	3440.186	-61.24	10.04	-51.20	-30	-21.20	peak

Remark:

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

3.6.6 TEST RESULTS (Conducted measurement)

Test data reference attachment

3.7. RECEIVER SPURIOUS RADIATION

3.7.1 LIMITS OF RECEIVER SPURIOUS RADIATION

Refer to chapter 4.3.2.10.3 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

3.7.2 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

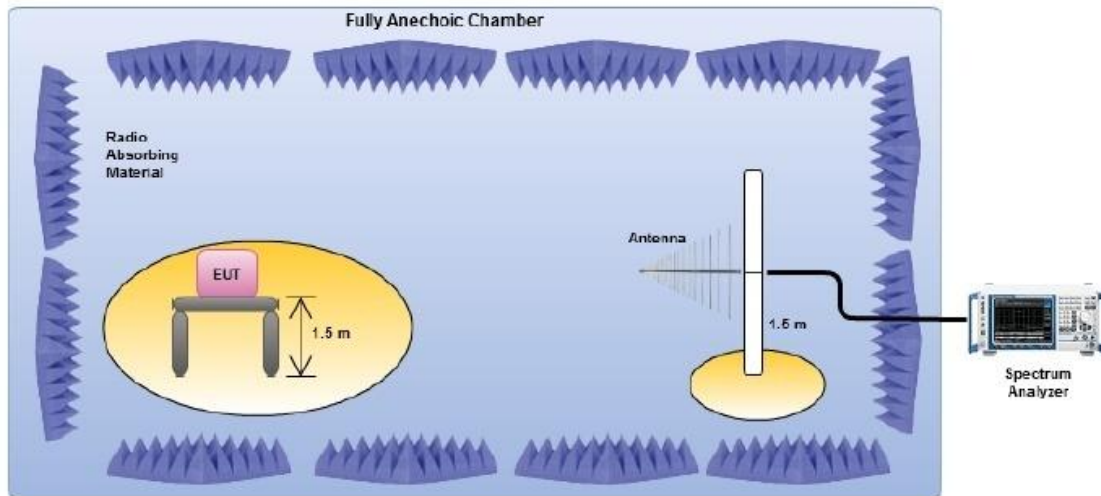
RBW	100K(<1GHz) / 1M(>1GHz)
VBW	300K(<1GHz) / 3M(>1GHz)

3.7.3 DEVIATION FROM TEST STANDARD

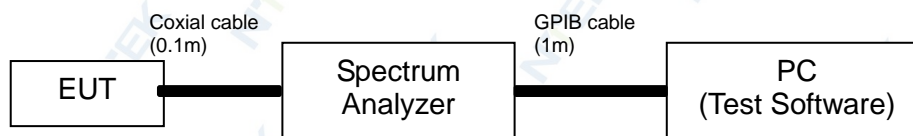
No deviation

3.7.4 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 has been activated to set the EUT on specific status.

3.7.5 TEST RESULTS (Radiated measurement)

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

EUT :	Smartphone	Model Name :	A10
Temperature :	24°C	Relative Humidity :	57 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	RX Mode-802.11b Mode(CH01)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	36.658	-81.9	12.08	-69.82	-57	-12.82	peak
V	92.738	-83.99	13.07	-70.92	-57	-13.92	peak
V	195.989	-87.13	18.00	-69.13	-57	-12.13	peak
V	356.171	-84.66	10.67	-73.99	-57	-16.99	peak
V	638.737	-81.37	16.33	-65.04	-57	-8.04	peak
H	45.022	-80.93	12.04	-68.89	-57	-11.89	peak
H	101.107	-82.92	15.37	-67.55	-57	-10.55	peak
H	191.968	-87.63	16.22	-71.41	-57	-14.41	peak
H	323.355	-87.07	14.43	-72.64	-57	-15.64	peak
H	616.385	-89.38	16.42	-72.96	-57	-15.96	peak

Remark:

1. Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.
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 :	A10
Temperature :	24 °C	Relative Humidity	57%
Pressure :	1010 hPa	Test Power :	DC 3.87V
Test Mode :	RX Mode-802.11b Mode(CH01)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	2016.283	-80.81	11.33	-69.48	-47	-22.48	peak
V	5471.009	-83.28	10.97	-72.31	-47	-25.31	peak
V	2810.341	-84.56	10.14	-74.42	-47	-27.42	peak
V	3732.349	-84.28	16.83	-67.45	-47	-20.45	peak
H	2470.57	-78.38	10.52	-67.86	-47	-20.86	peak
H	4366.043	-83.83	11.70	-72.13	-47	-25.13	peak
H	2136.636	-70.45	6.62	-63.83	-47	-16.83	peak
H	5373.664	-83.77	14.99	-68.78	-47	-21.78	peak

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

3.7.6 TEST RESULTS (Conducted measurement)

Test data reference attachment

3.8. RECEIVER BLOCKING

3.8.1 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)).

3.8.2 LIMITS OF RECEIVER BLOCKING

While maintaining the minimum performance criteria as defined in clause 4.3.2.11.3, 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 14, table 15 or table 16.

☒ **Table 14: 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 2 504	-34	CW
(-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 15: 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 16: 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.

3.8.3 TEST PROCEDURE

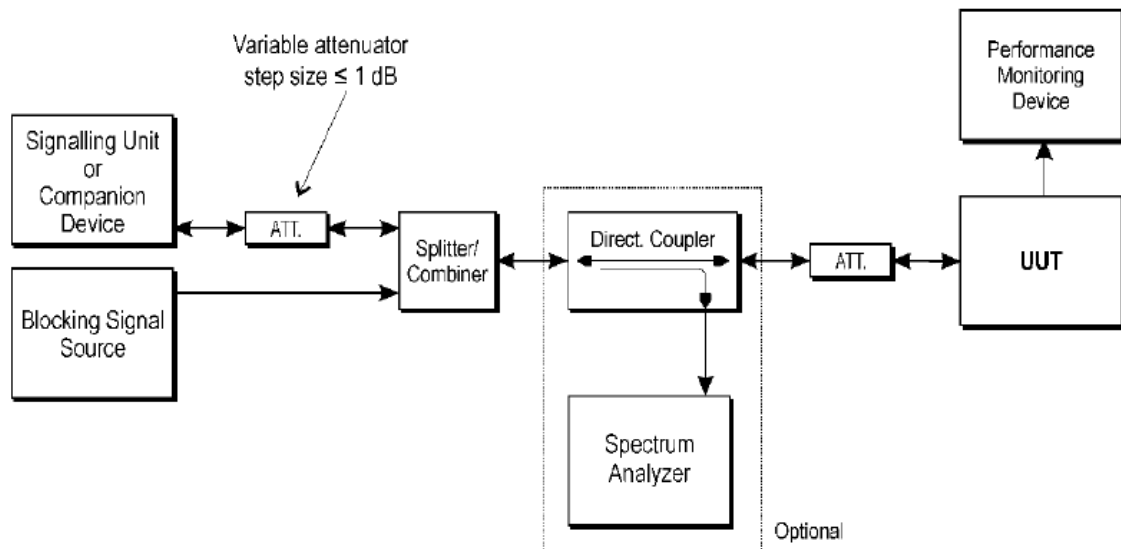
Refer to chapter 5.4.11.2 of ETSI EN 300 328 V2.2.2 (2019-07)

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

3.8.4 DEVIATION FROM TEST STANDARD

No deviation

3.8.5 TEST SETUP



3.8.6 TEST RESULTS

EUT :	Smartphone	Model Name :	A10
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	RX Mode(802.11b-CH01/CH13)		

CH01:

receiver category 1

Wanted signal mean power from companion device (dBm) _{Note(1)}	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-68	2380		0.93%	≤10%
	2504		0.37%	
-74	2300	-34	0.57%	≤10%
	2330		0.73%	
	2360		0.91%	
	2524		0.98%	
	2584		0.92%	
	2674		0.19%	

CH13:

receiver category 1

Wanted signal mean power from companion device (dBm) _{Note(1)}	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-68	2380		0.78%	≤10%
	2504		0.27%	
-74	2300	-34	0.66%	≤10%
	2330		0.67%	
	2360		0.66%	
	2524		0.64%	
	2584		0.20%	
	2674		0.10%	

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

EUT :	Smartphone	Model Name :	A10
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	RX Mode(802.11g-CH01/CH13)		

CH01:

receiver category 1

Wanted signal mean power from companion device (dBm) _{Note(1)}	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-68	2380	-34	0.44%	≤10%
	2504		0.61%	
-74	2300		0.37%	≤10%
	2330		0.88%	
	2360		0.03%	
	2524		0.11%	
	2584		0.46%	
	2674		0.84%	

CH13:

receiver category 1

Wanted signal mean power from companion device (dBm) _{Note(1)}	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-68	2380	-34	0.36%	≤10%
	2504		0.40%	
-74	2300		0.46%	≤10%
	2330		0.56%	
	2360		0.24%	
	2524		0.74%	
	2584		0.23%	
	2674		0.40%	

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

EUT :	Smartphone	Model Name :	A10
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	RX Mode(802.11n20-CH01/CH13)		

CH01:

receiver category 1

Wanted signal mean power from companion device (dBm) _{Note(1)}	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-68	2380		0.40%	≤10%
	2504		0.43%	
-74	2300	-34	0.01%	≤10%
	2330		0.66%	
	2360		0.33%	
	2524		0.75%	
	2584		0.82%	
	2674		0.92%	

CH13:

receiver category 1

Wanted signal mean power from companion device (dBm) _{Note(1)}	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-68	2380		0.58%	≤10%
	2504		0.78%	
-74	2300	-34	0.59%	≤10%
	2330		0.59%	
	2360		0.93%	
	2524		0.75%	
	2584		0.23%	
	2674		0.71%	

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

EUT :	Smartphone	Model Name :	A10
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	RX Mode(802.11n40-CH03/CH11)		

CH03:

receiver category 1

Wanted signal mean power from companion device (dBm) _{Note(1)}	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-68	2380	-34	0.81%	≤10%
	2504		0.28%	
-74	2300		0.73%	≤10%
	2330		0.09%	
	2360		0.28%	
	2524		0.69%	
	2584		0.41%	
	2674		0.95%	

CH11:

receiver category 1

Wanted signal mean power from companion device (dBm) _{Note(1)}	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
-68	2380	-34	0.75%	≤10%
	2504		0.78%	
-74	2300		0.61%	≤10%
	2330		0.62%	
	2360		0.40%	
	2524		0.44%	
	2584		0.50%	
	2674		0.48%	

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

4. TEST RESULTS

4.1 RF Output Power

Condition	Mode	Frequency (MHz)	Antenna	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	802.11b	2412	Ant1	12.39	48	14.21	20	Pass
NVNT	802.11b	2442	Ant1	12.14	48	13.96	20	Pass
NVNT	802.11b	2472	Ant1	11.38	48	13.2	20	Pass
NVNT	802.11g	2412	Ant1	9.22	260	11.04	20	Pass
NVNT	802.11g	2442	Ant1	8.53	260	10.35	20	Pass
NVNT	802.11g	2472	Ant1	9.42	260	11.24	20	Pass
NVNT	802.11n(HT20)	2412	Ant1	9.15	227	10.97	20	Pass
NVNT	802.11n(HT20)	2442	Ant1	8.66	227	10.48	20	Pass
NVNT	802.11n(HT20)	2472	Ant1	8.32	227	10.14	20	Pass
NVNT	802.11n(HT40)	2422	Ant1	8.25	409	10.07	20	Pass
NVNT	802.11n(HT40)	2442	Ant1	8.36	410	10.18	20	Pass
NVNT	802.11n(HT40)	2462	Ant1	7.65	411	9.47	20	Pass
NVLT	802.11b	2412	Ant1	11.83	49	13.65	20	Pass
NVLT	802.11b	2442	Ant1	11.88	48	13.7	20	Pass
NVLT	802.11b	2472	Ant1	10.69	48	12.51	20	Pass
NVLT	802.11g	2412	Ant1	8.66	279	10.48	20	Pass
NVLT	802.11g	2442	Ant1	8.27	279	10.09	20	Pass
NVLT	802.11g	2472	Ant1	8.73	349	10.55	20	Pass
NVLT	802.11n(HT20)	2412	Ant1	8.4	224	10.22	20	Pass
NVLT	802.11n(HT20)	2442	Ant1	7.97	224	9.79	20	Pass
NVLT	802.11n(HT20)	2472	Ant1	8.59	224	10.41	20	Pass
NVLT	802.11n(HT40)	2422	Ant1	7.69	435	9.51	20	Pass
NVLT	802.11n(HT40)	2442	Ant1	7.99	435	9.81	20	Pass
NVLT	802.11n(HT40)	2462	Ant1	6.96	434	8.78	20	Pass
NVHT	802.11b	2412	Ant1	11.88	49	13.7	20	Pass
NVHT	802.11b	2442	Ant1	11.62	48	13.44	20	Pass
NVHT	802.11b	2472	Ant1	10.9	48	12.72	20	Pass
NVHT	802.11g	2412	Ant1	8.82	279	10.64	20	Pass
NVHT	802.11g	2442	Ant1	8.01	279	9.83	20	Pass
NVHT	802.11g	2472	Ant1	8.86	349	10.68	20	Pass
NVHT	802.11n(HT20)	2412	Ant1	7.71	224	9.53	20	Pass
NVHT	802.11n(HT20)	2442	Ant1	8.16	224	9.98	20	Pass
NVHT	802.11n(HT20)	2472	Ant1	8.46	224	10.28	20	Pass
NVHT	802.11n(HT40)	2422	Ant1	7.78	435	9.6	20	Pass
NVHT	802.11n(HT40)	2442	Ant1	7.43	435	9.25	20	Pass
NVHT	802.11n(HT40)	2462	Ant1	7.08	434	8.9	20	Pass

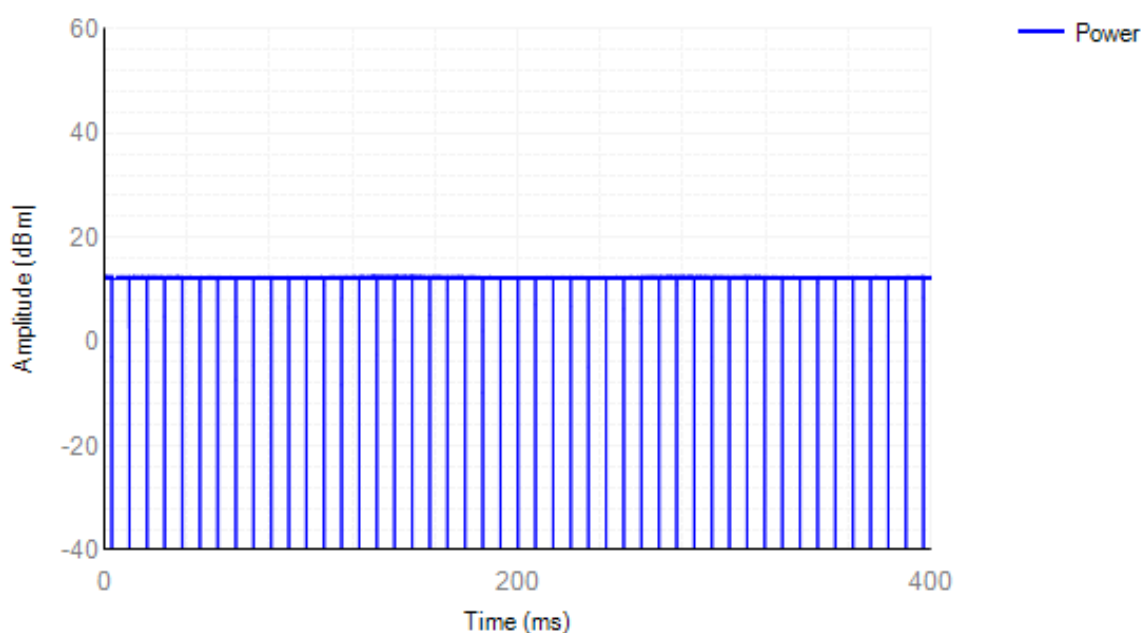
Test Graphs

Power NVNT b 2412MHz Ant1

Frequency: 2412 MHz

RF Output Power

Power: 12.39 dBm

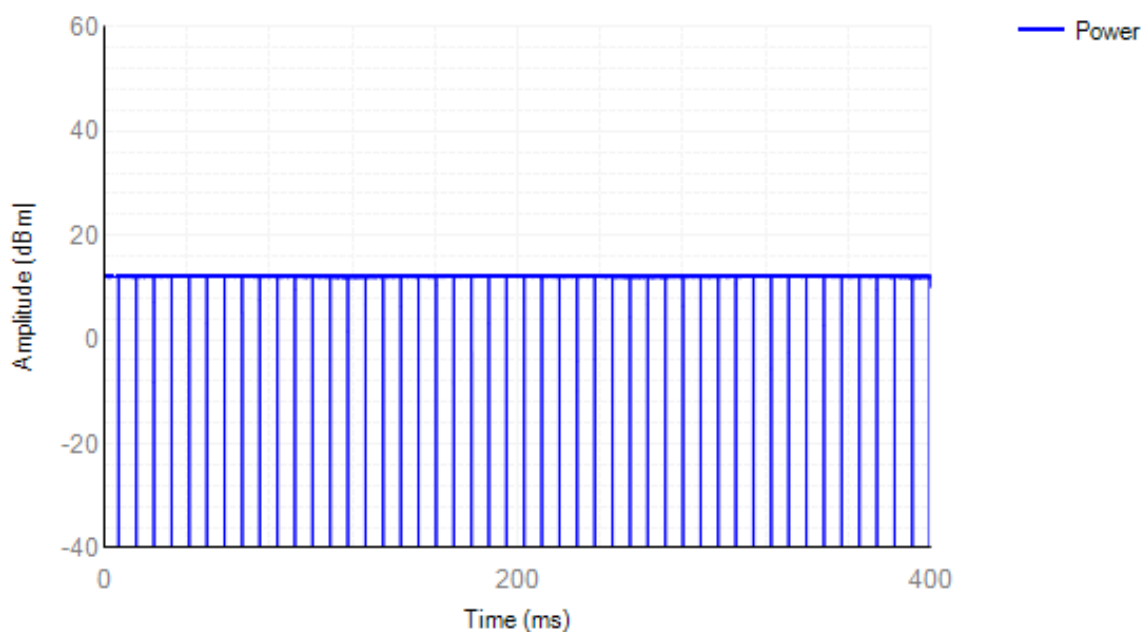


Power NVNT b 2442MHz Ant1

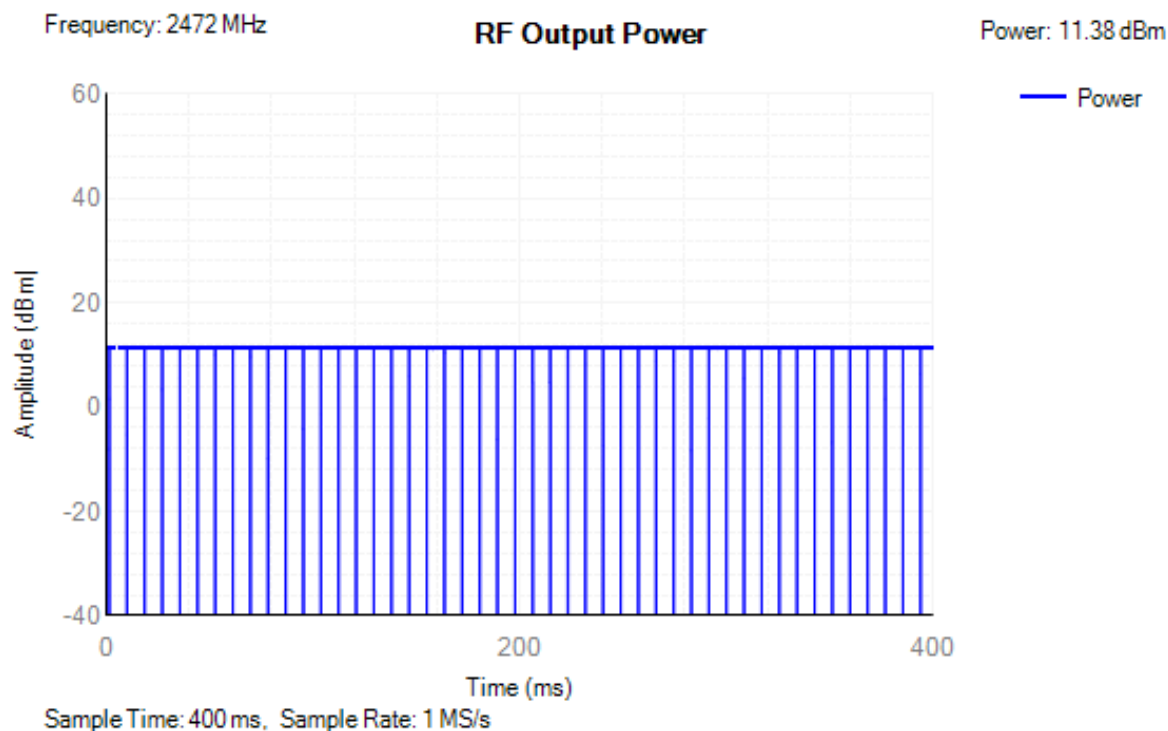
Frequency: 2442 MHz

RF Output Power

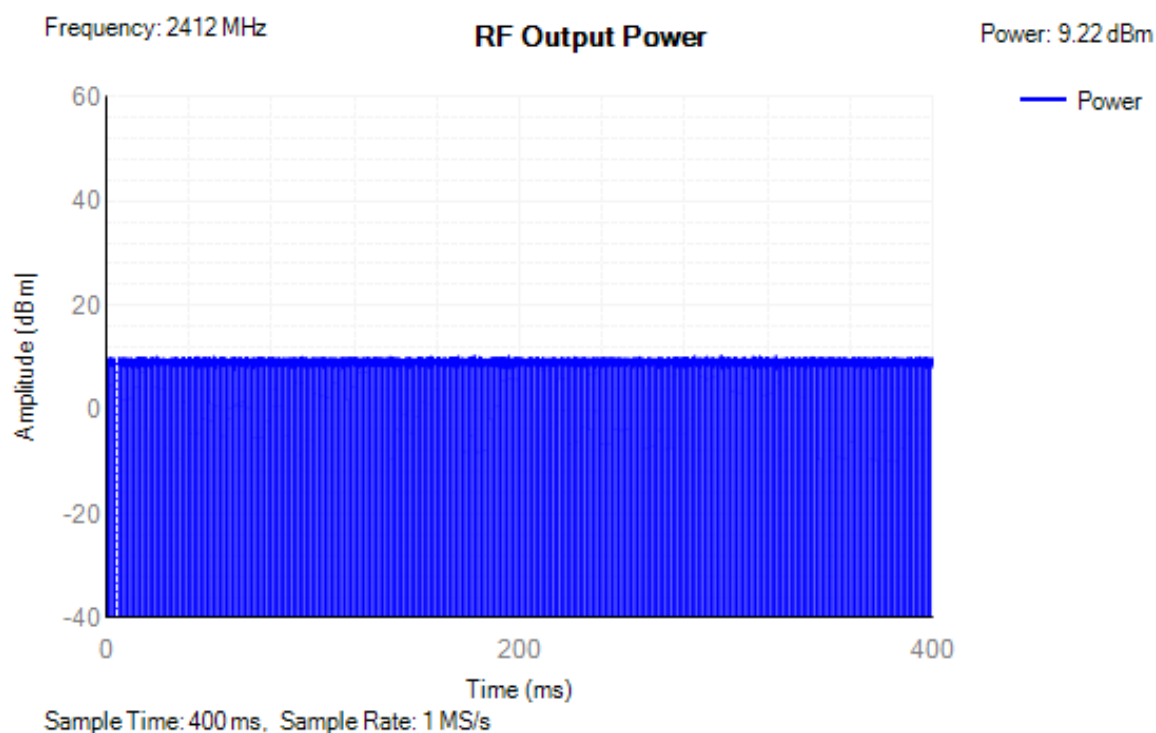
Power: 12.14 dBm



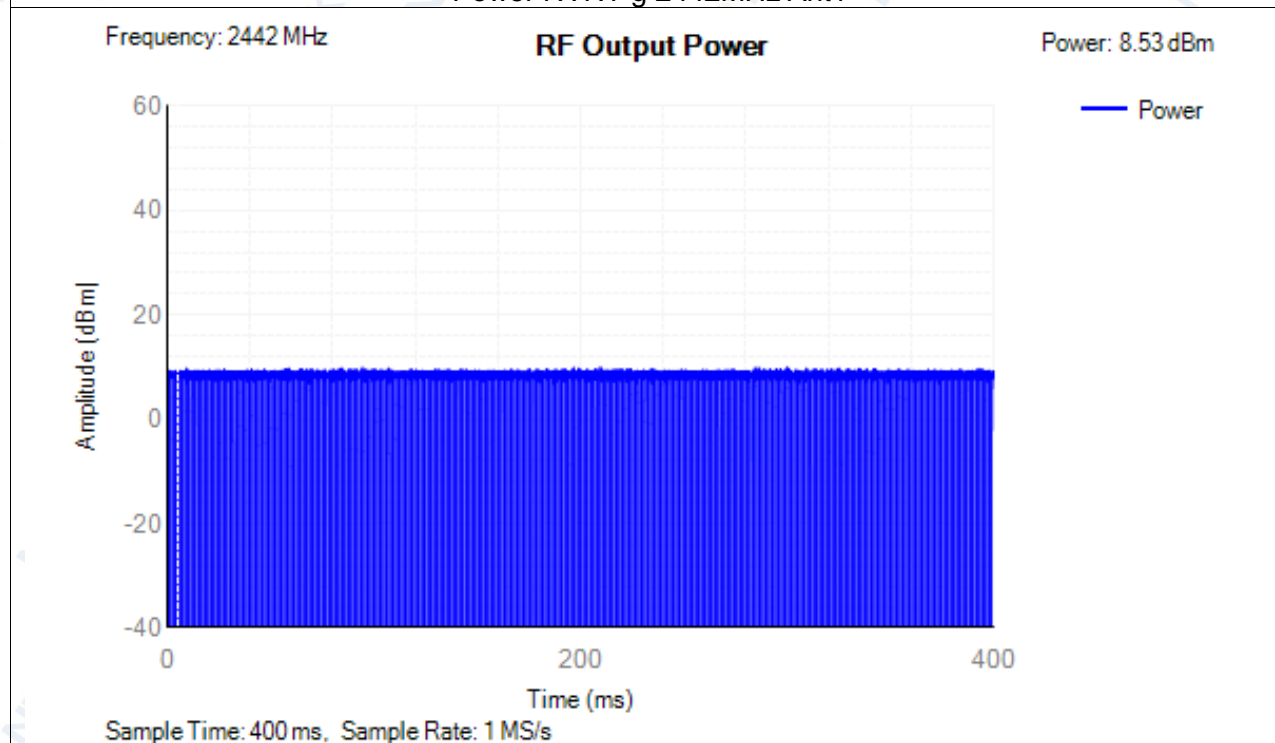
Power NVNT b 2472MHz Ant1



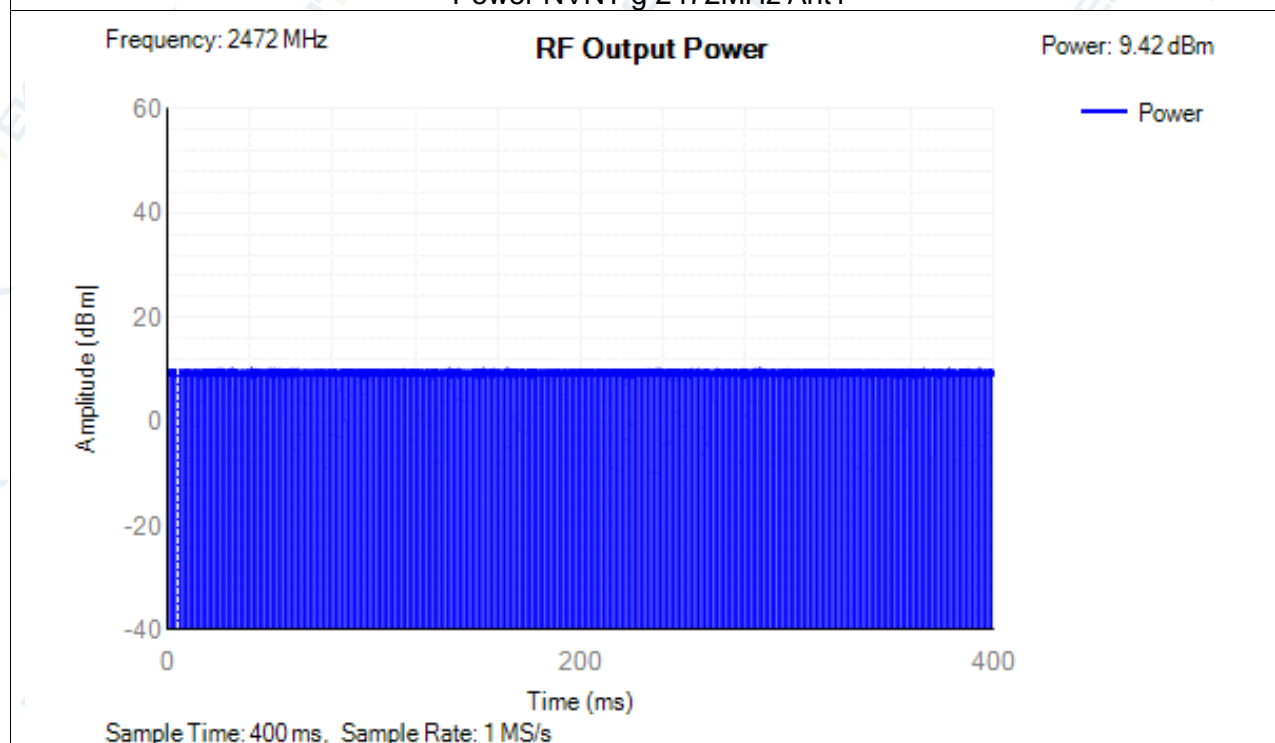
Power NVNT g 2412MHz Ant1



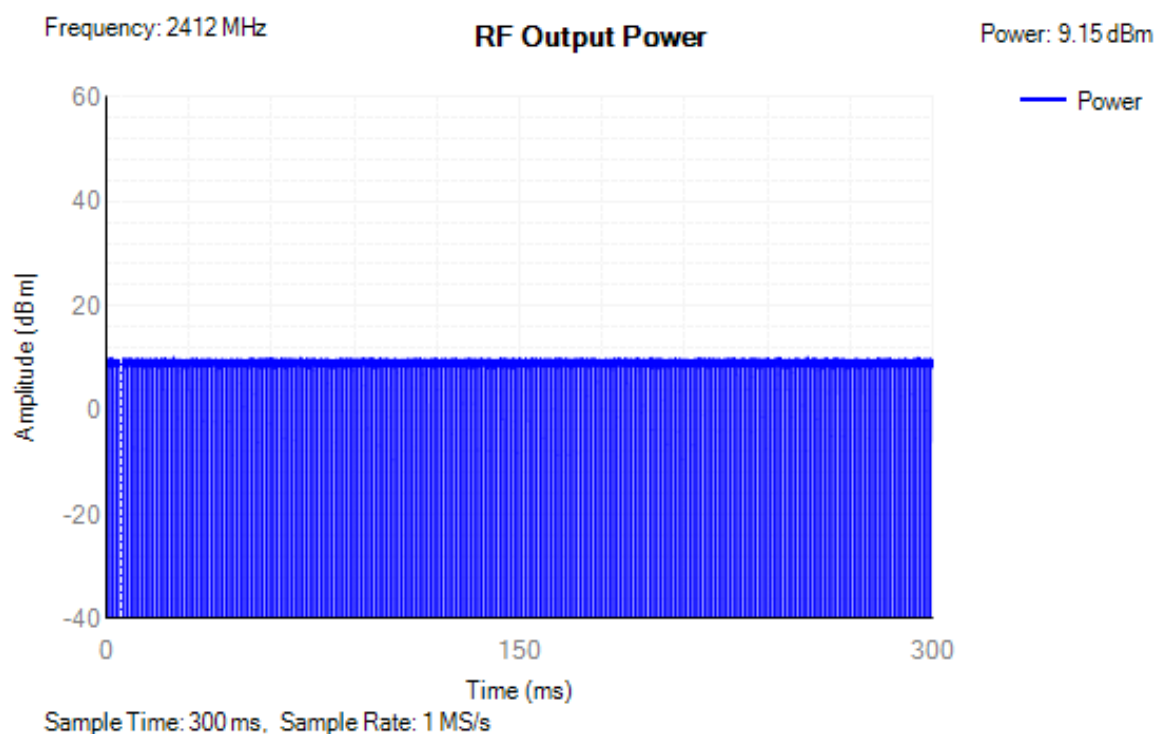
Power NVNT g 2442MHz Ant1



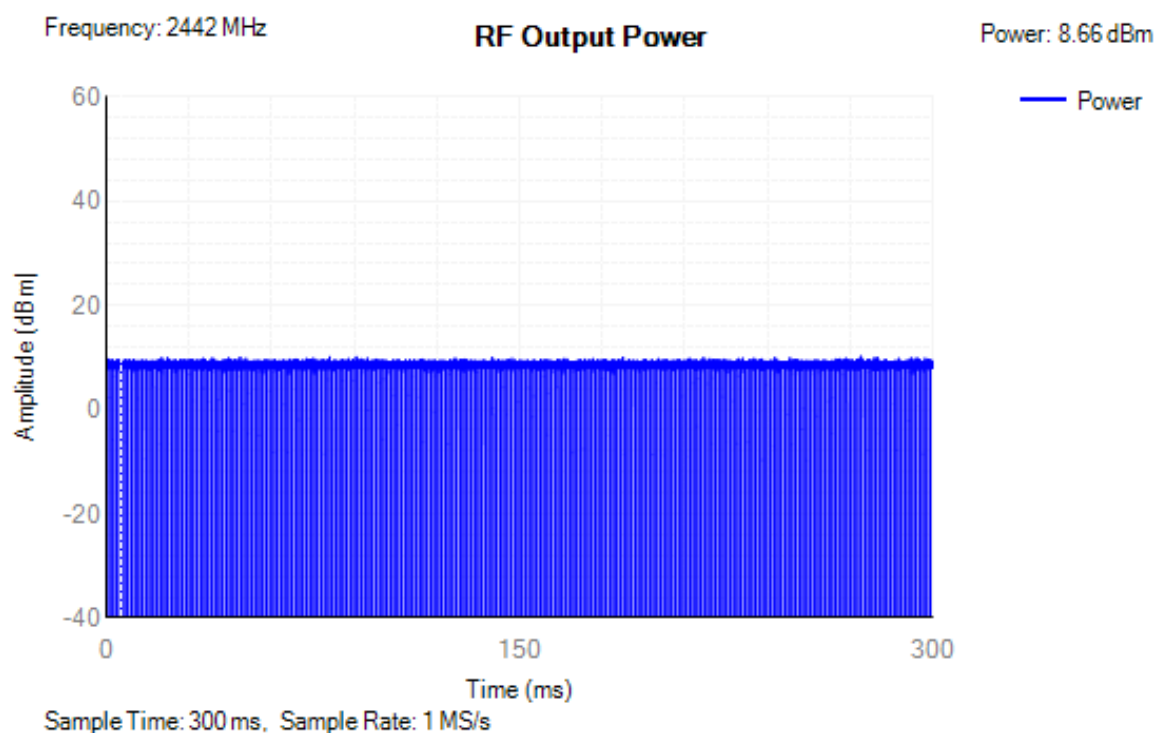
Power NVNT g 2472MHz Ant1



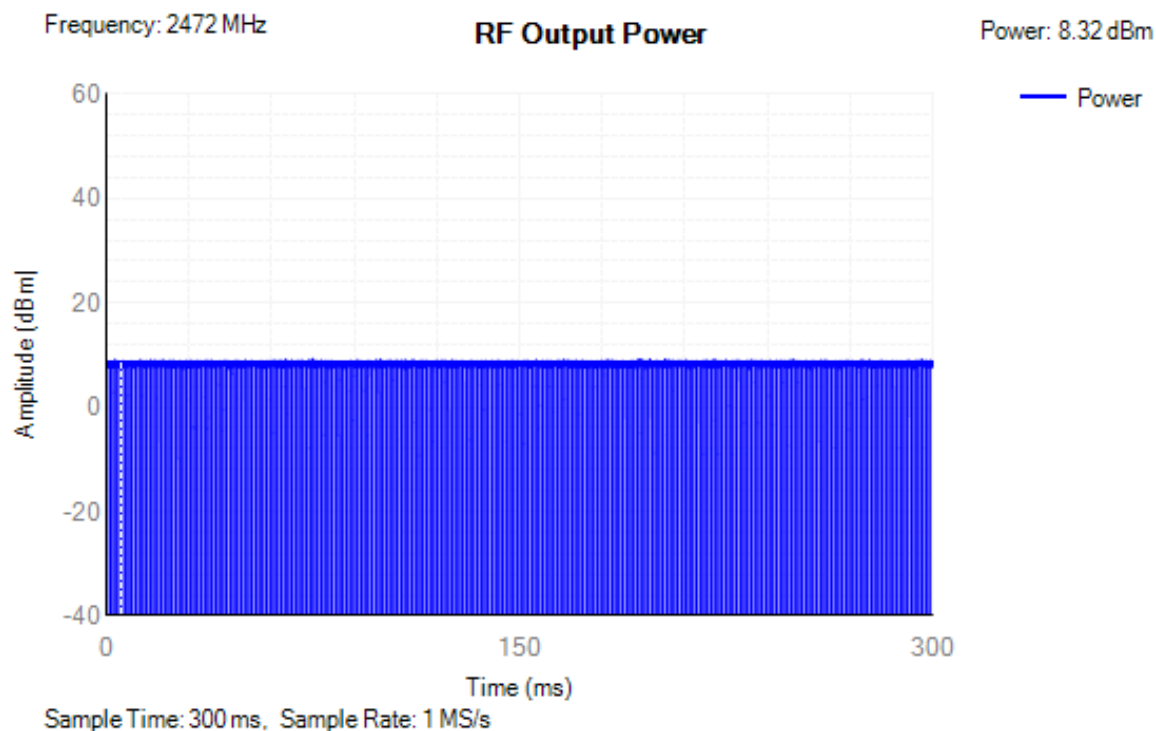
Power NVNT n20 2412MHz Ant1



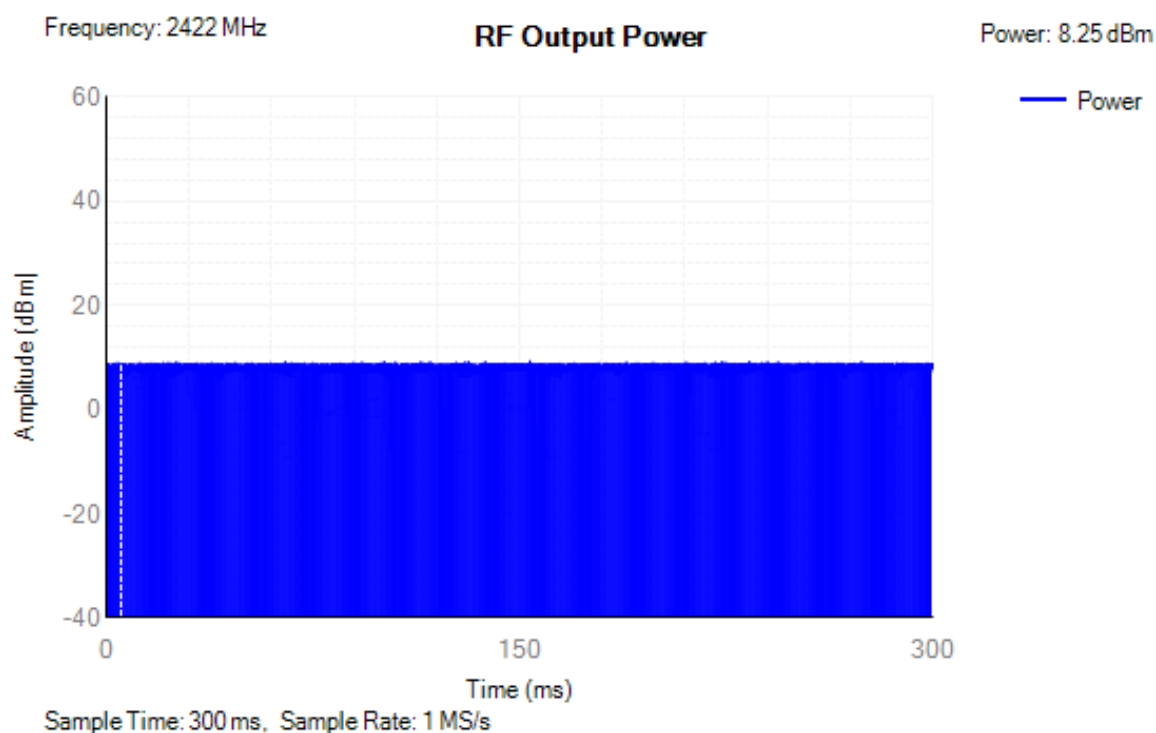
Power NVNT n20 2442MHz Ant1



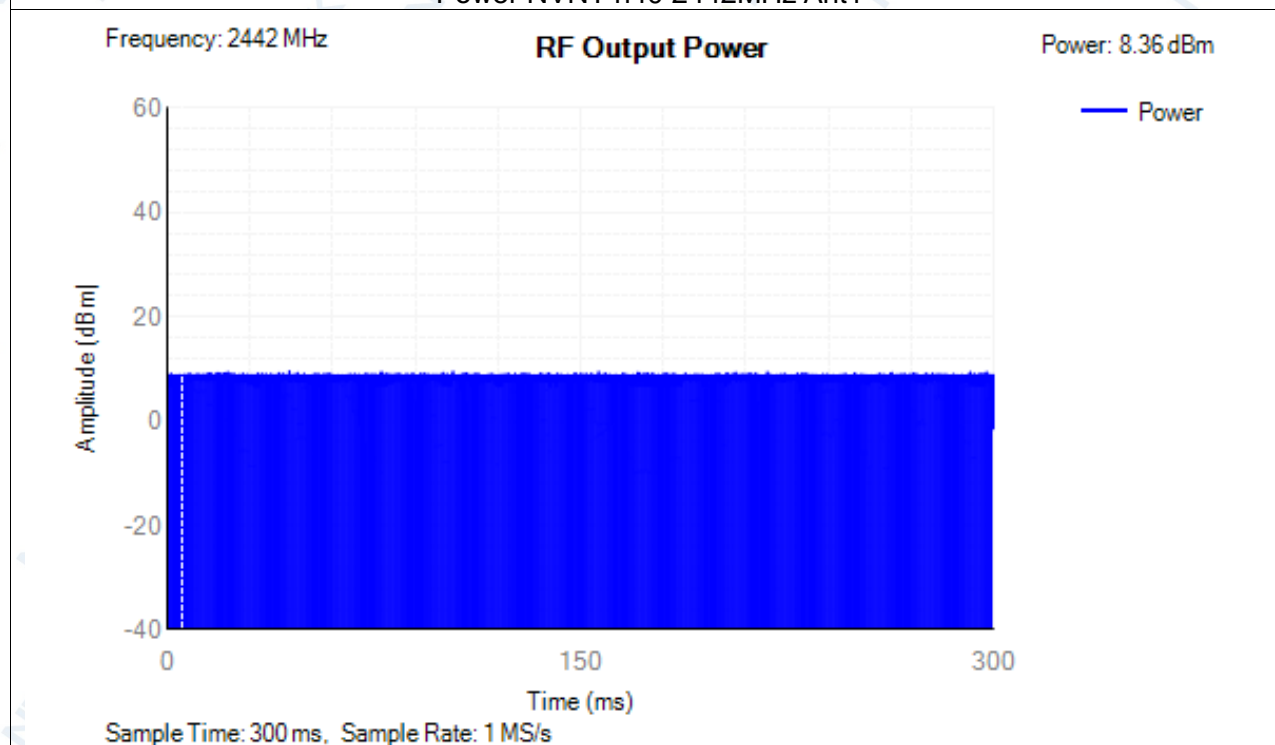
Power NVNT n20 2472MHz Ant1



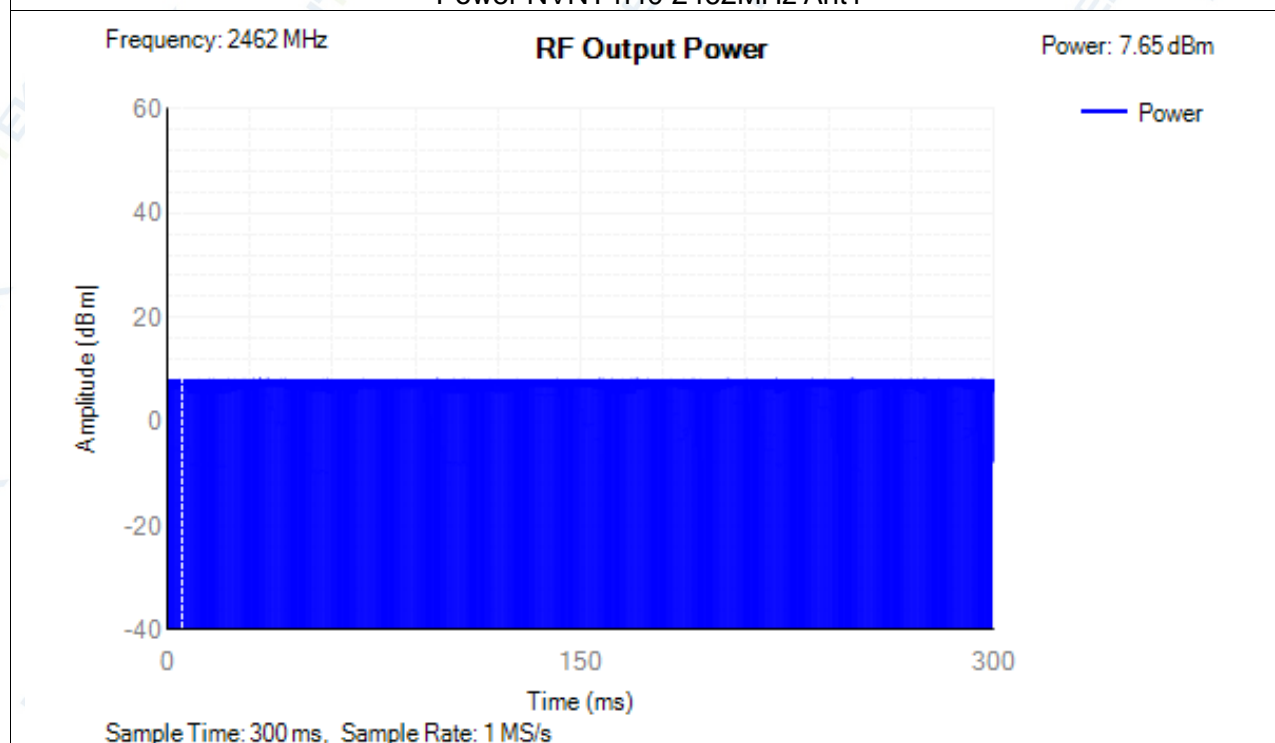
Power NVNT n40 2422MHz Ant1



Power NVNT n40 2442MHz Ant1



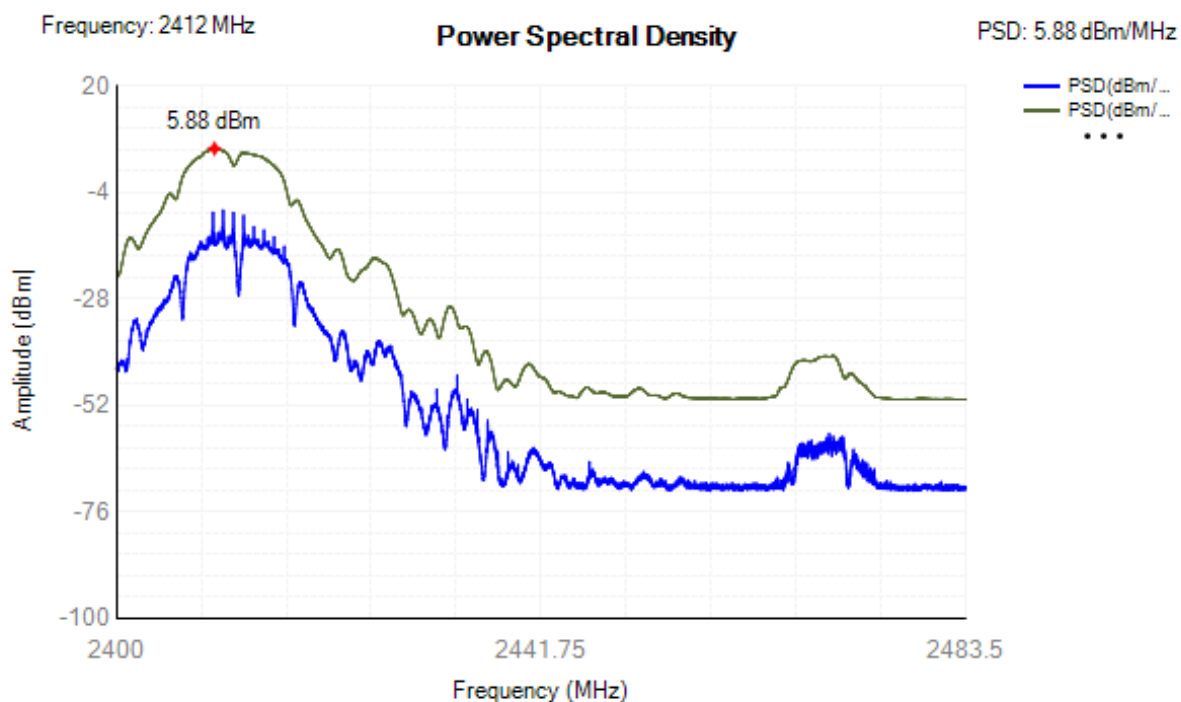
Power NVNT n40 2462MHz Ant1



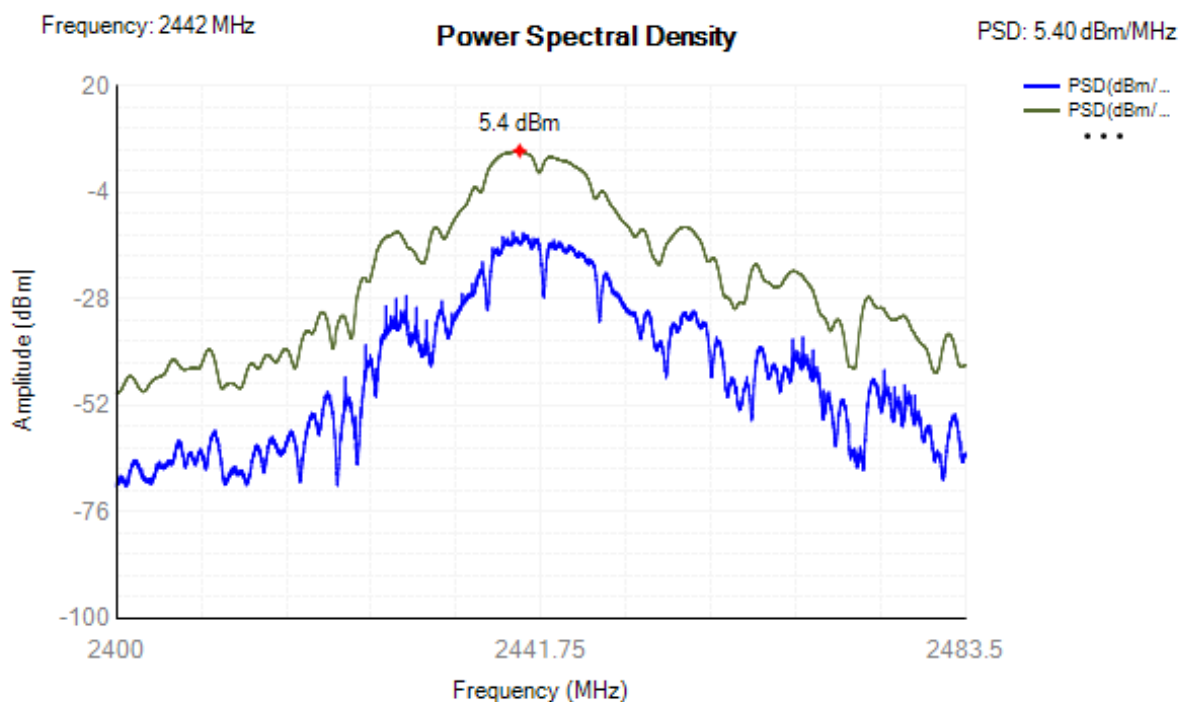
4.2 Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	b	2412	Ant1	5.88	10	Pass
NVNT	b	2442	Ant1	5.4	10	Pass
NVNT	b	2472	Ant1	4.23	10	Pass
NVNT	g	2412	Ant1	-0.02	10	Pass
NVNT	g	2442	Ant1	1.6	10	Pass
NVNT	g	2472	Ant1	-0.17	10	Pass
NVNT	n20	2412	Ant1	-0.32	10	Pass
NVNT	n20	2442	Ant1	1.42	10	Pass
NVNT	n20	2472	Ant1	-1.33	10	Pass
NVNT	n40	2422	Ant1	-4.15	10	Pass
NVNT	n40	2442	Ant1	-1.61	10	Pass
NVNT	n40	2462	Ant1	-4.84	10	Pass

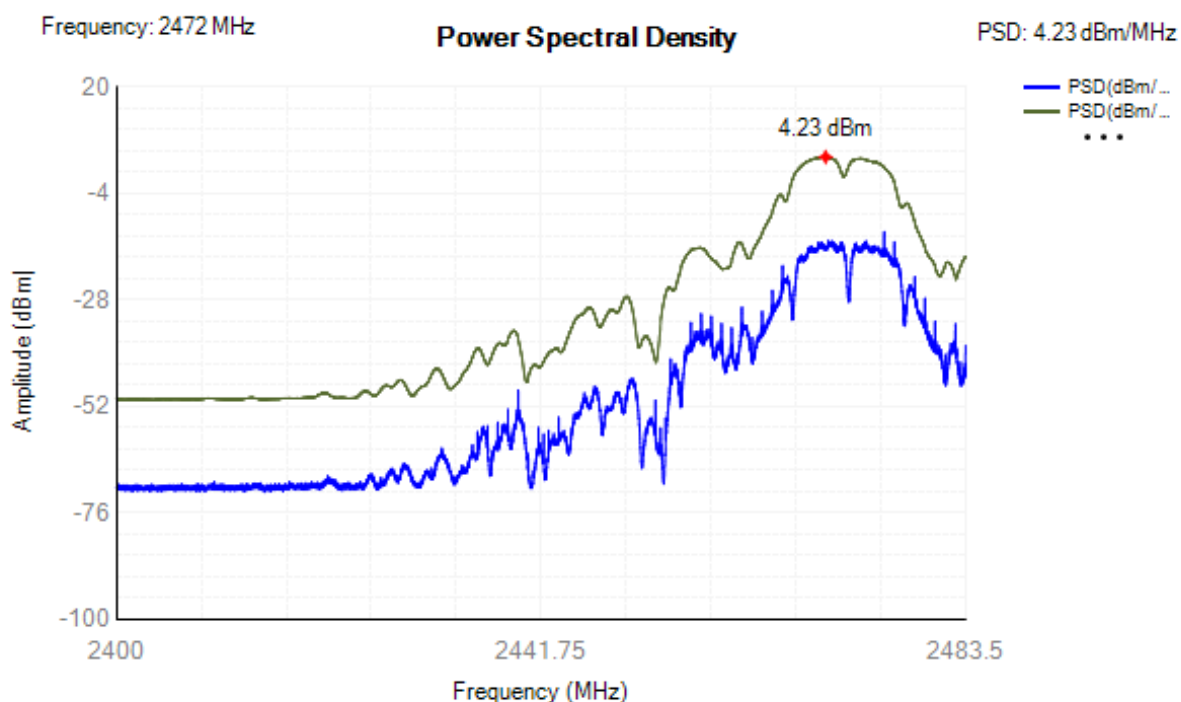
Test Graphs
PSD NVNT b 2412MHz Ant1



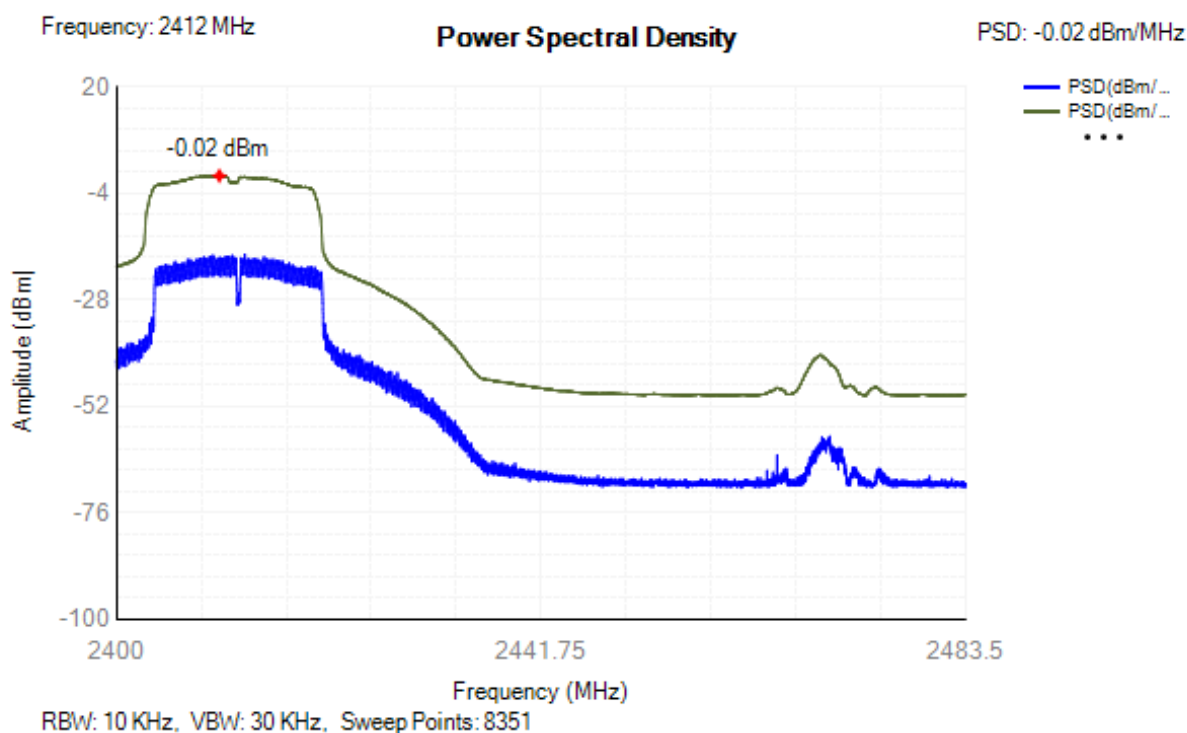
PSD NVNT b 2442MHz Ant1



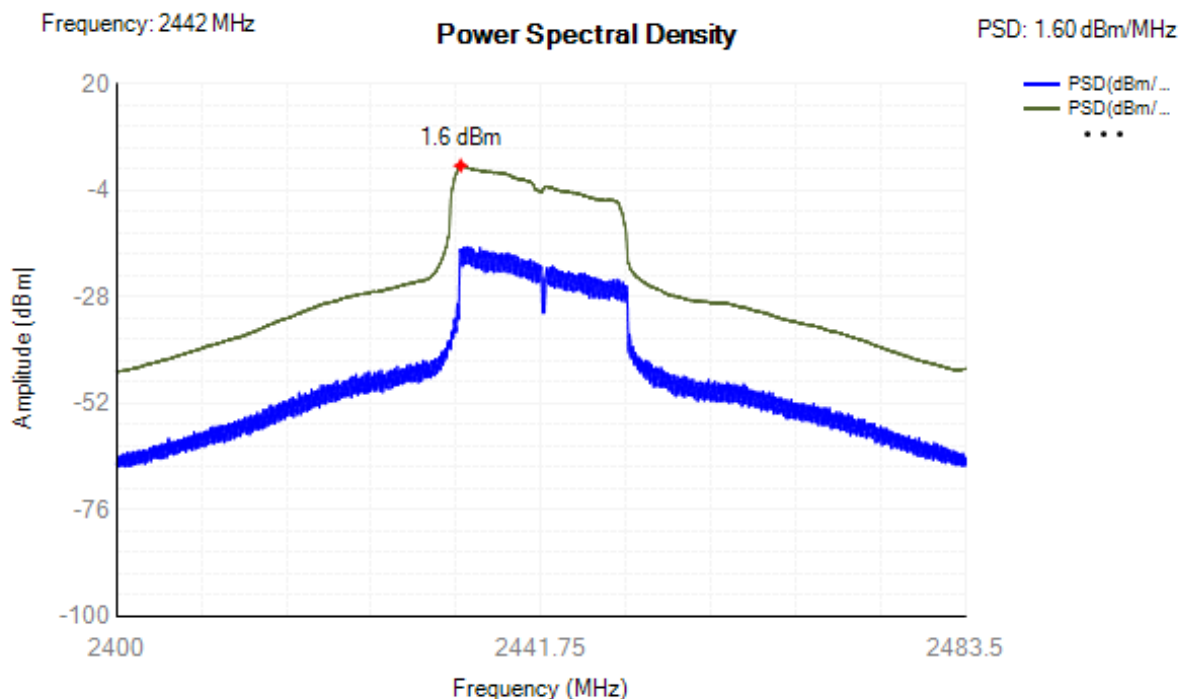
PSD NVNT b 2472MHz Ant1



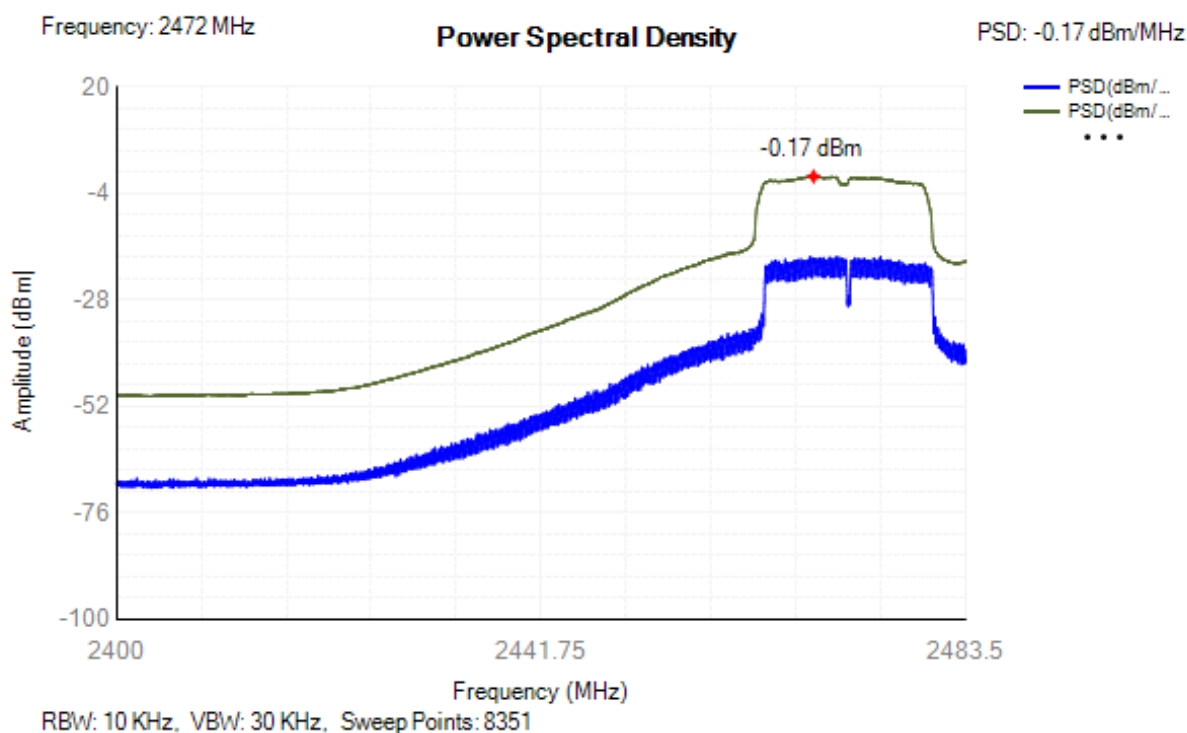
PSD NVNT g 2412MHz Ant1



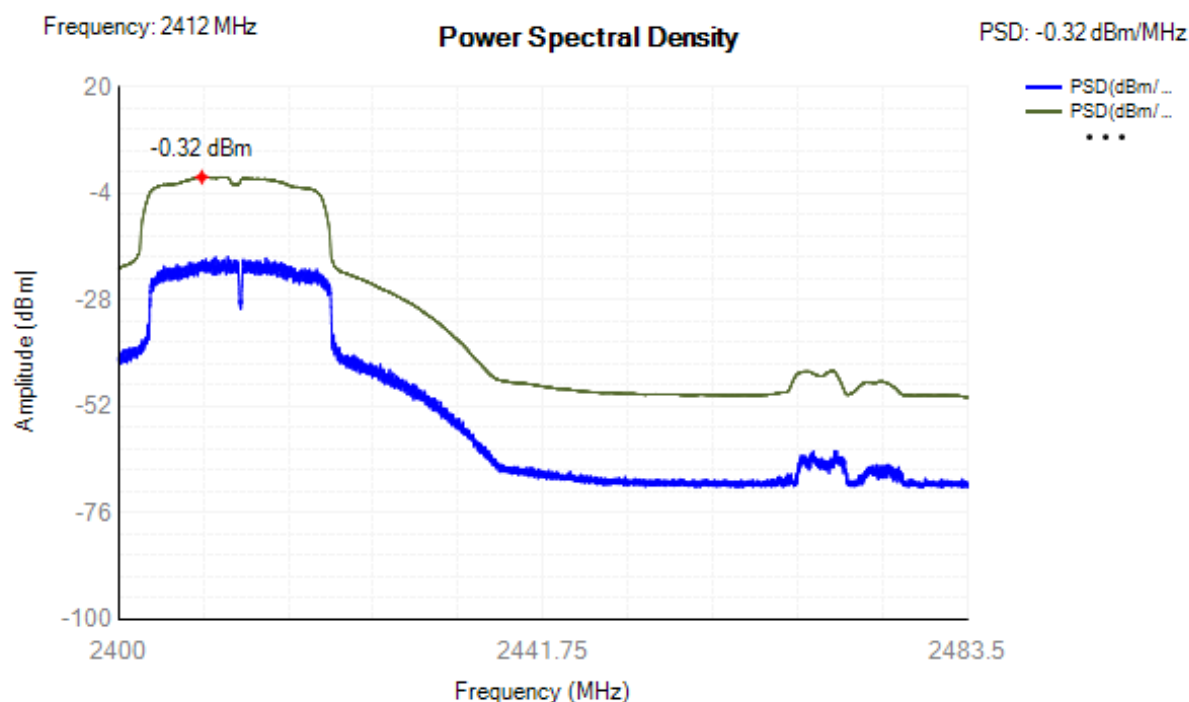
PSD NVNT g 2442MHz Ant1



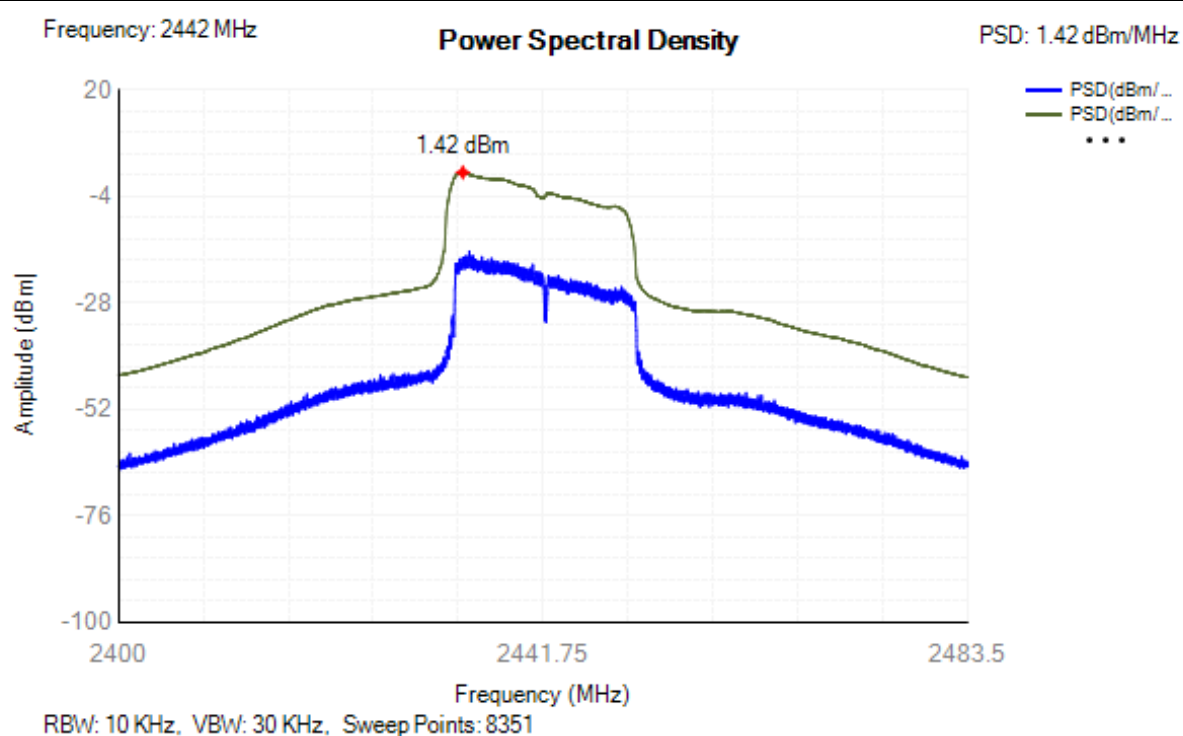
PSD NVNT g 2472MHz Ant1



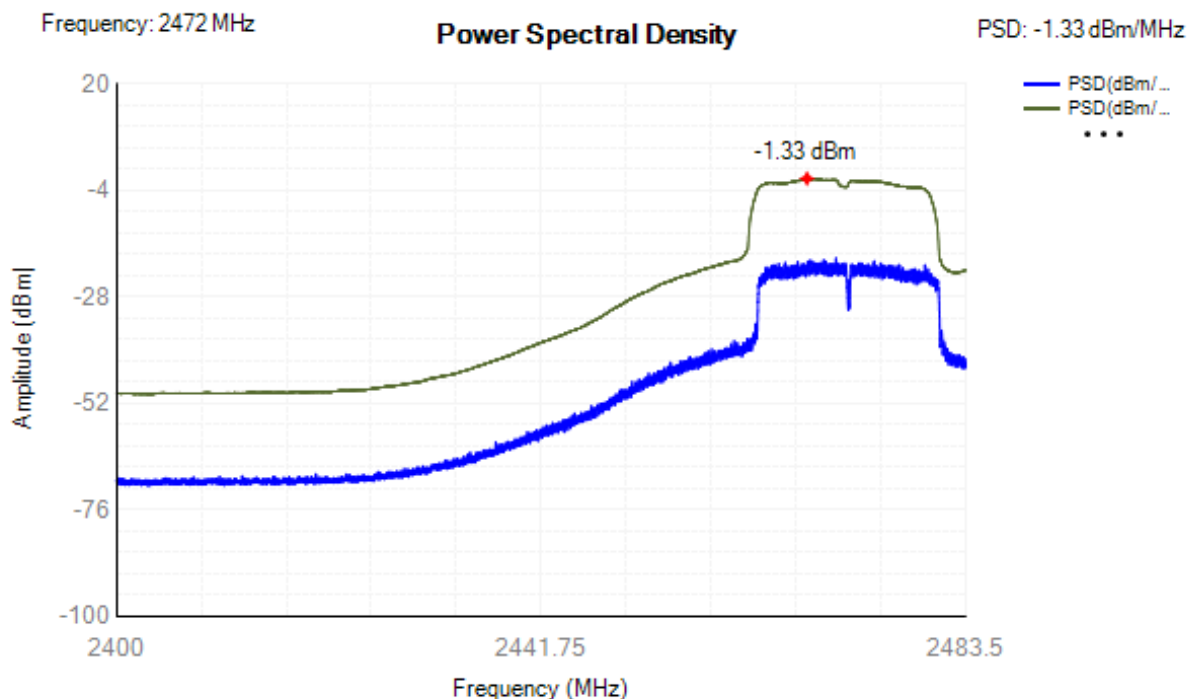
PSD NVNT n20 2412MHz Ant1



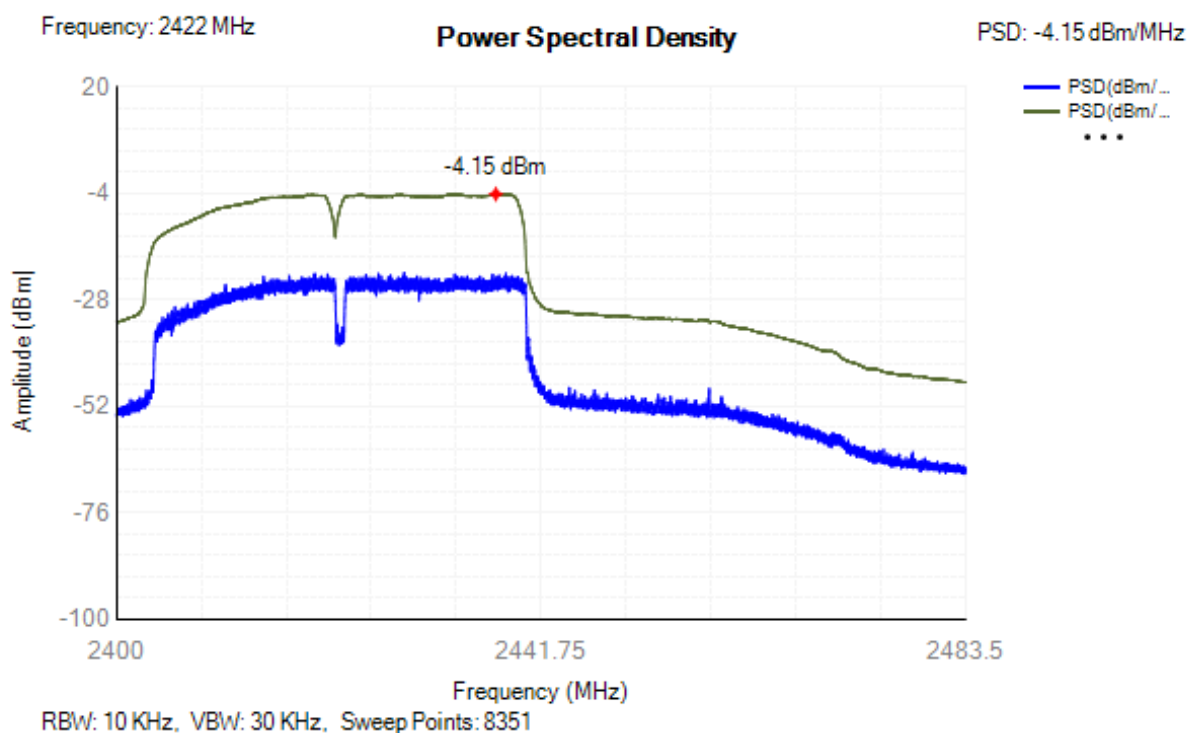
PSD NVNT n20 2442MHz Ant1



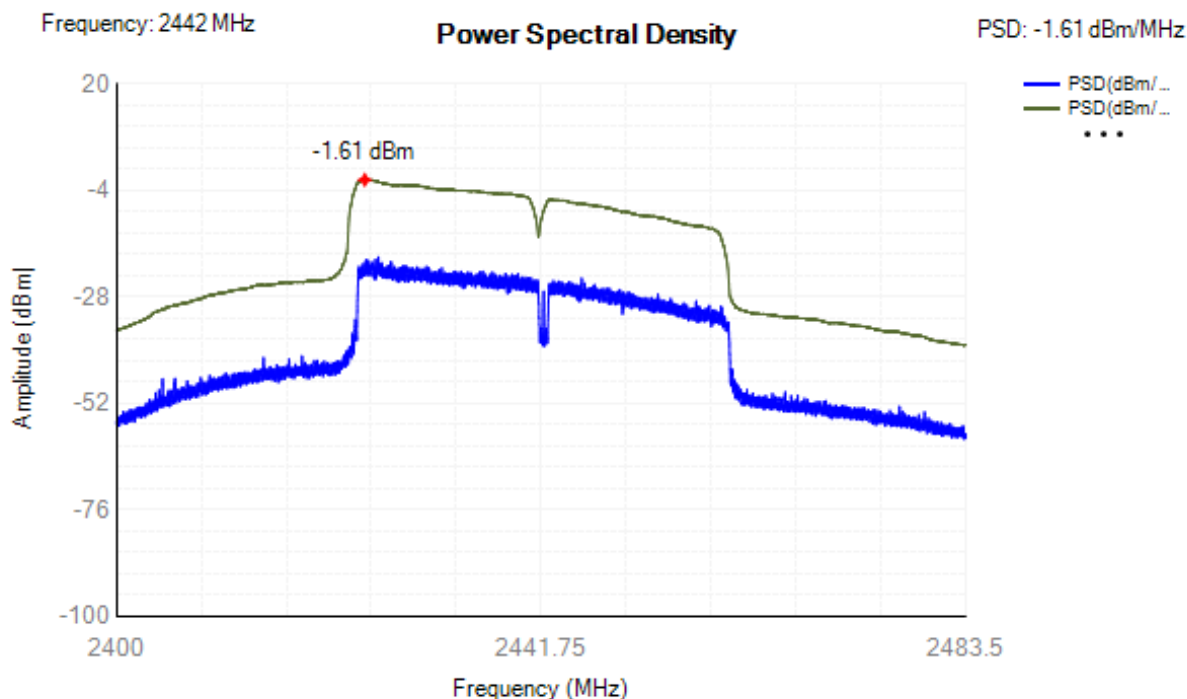
PSD NVNT n20 2472MHz Ant1



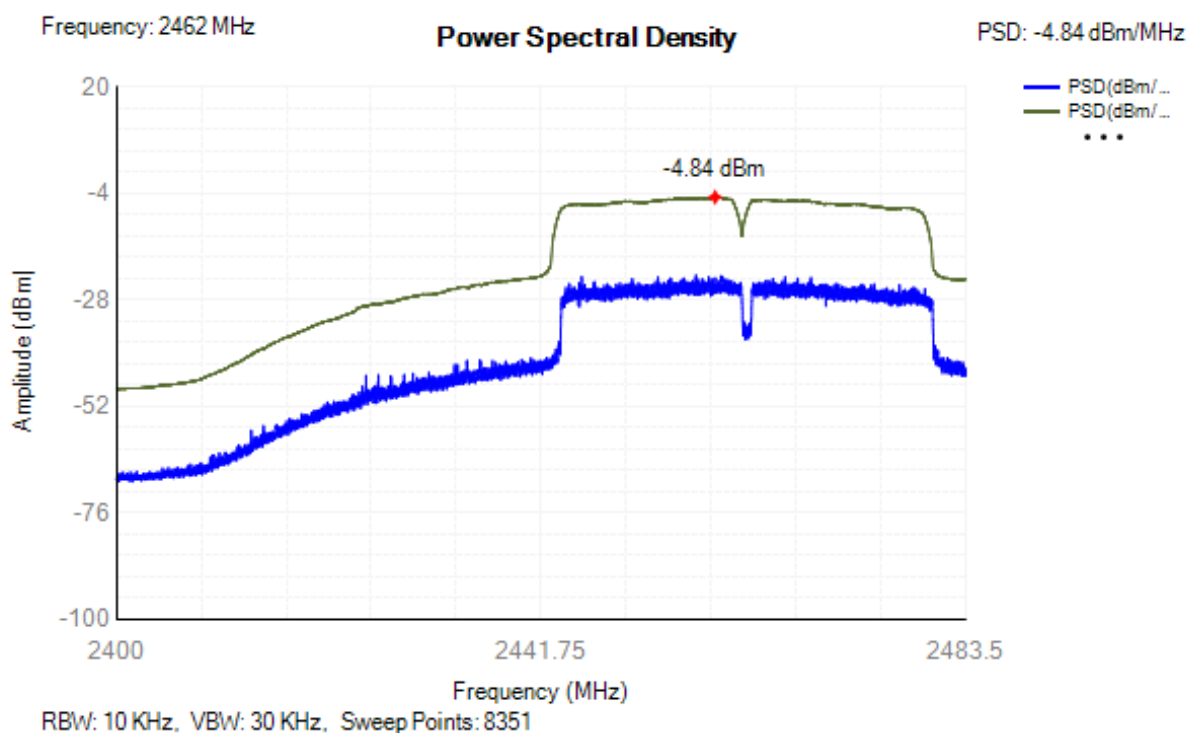
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2442MHz Ant1



PSD NVNT n40 2462MHz Ant1



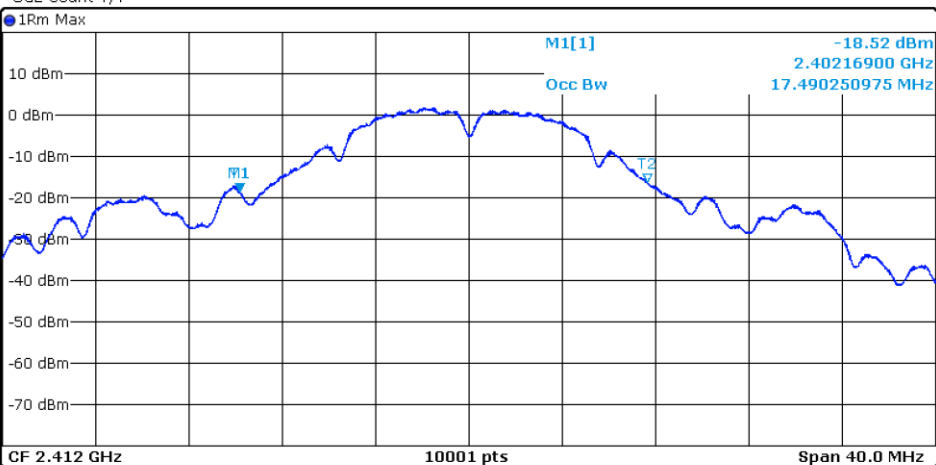
4.3 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	b	2412	Ant1	2410.914	17.49	2402.169	2419.659	2400 - 2483.5MHz	Pass
NVNT	b	2442	Ant1	2443.68	24.494	2431.433	2455.927	2400 - 2483.5MHz	Pass
NVNT	b	2472	Ant1	2470.586	16.538	2462.317	2478.855	2400 - 2483.5MHz	Pass
NVNT	g	2412	Ant1	2411.712	17.438	2402.993	2420.431	2400 - 2483.5MHz	Pass
NVNT	g	2442	Ant1	2441.752	16.91	2433.297	2450.207	2400 - 2483.5MHz	Pass
NVNT	g	2472	Ant1	2470.71	20.57	2460.425	2480.995	2400 - 2483.5MHz	Pass
NVNT	n20	2412	Ant1	2411.794	18.33	2402.629	2420.959	2400 - 2483.5MHz	Pass
NVNT	n20	2442	Ant1	2441.744	17.846	2432.821	2450.667	2400 - 2483.5MHz	Pass
NVNT	n20	2472	Ant1	2471.024	20.078	2460.985	2481.063	2400 - 2483.5MHz	Pass
NVNT	n40	2422	Ant1	2422.692	35.46	2404.962	2440.422	2400 - 2483.5MHz	Pass
NVNT	n40	2442	Ant1	2441	36.62	2422.69	2459.31	2400 - 2483.5MHz	Pass
NVNT	n40	2462	Ant1	2461.604	42.804	2440.202	2483.006	2400 - 2483.5MHz	Pass

Test Graphs
OBW NVNT b 2412MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 500 kHz
Att 30 dB SWT 1 s VBW 2 MHz Mode Auto Sweep
SGL Count 7/7



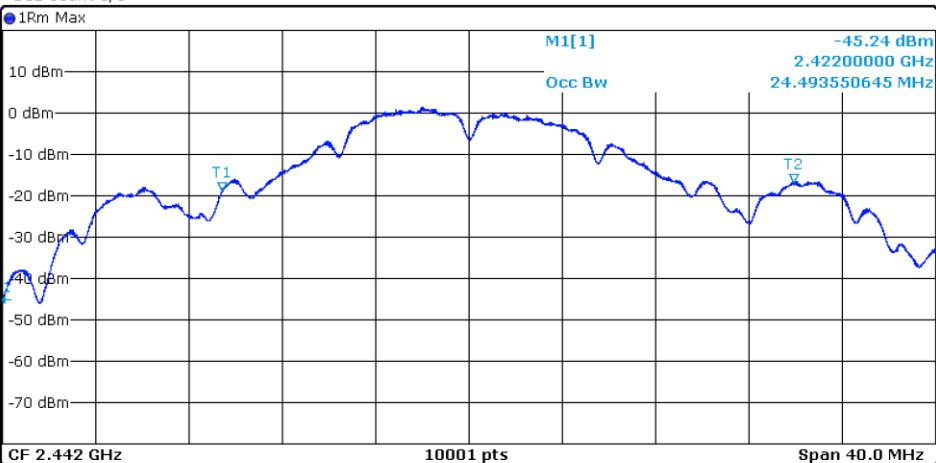
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.402169 GHz	-18.52 dBm		
T1		1	2.40216898 GHz	-18.52 dBm	Occ Bw	17.490250975 MHz
T2		1	2.41965923 GHz	-16.25 dBm		

OBW NVNT b 2442MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.39 dB RBW 500 kHz
Att 30 dB SWT 1 s VBW 2 MHz Mode Auto Sweep
SGL Count 6/6

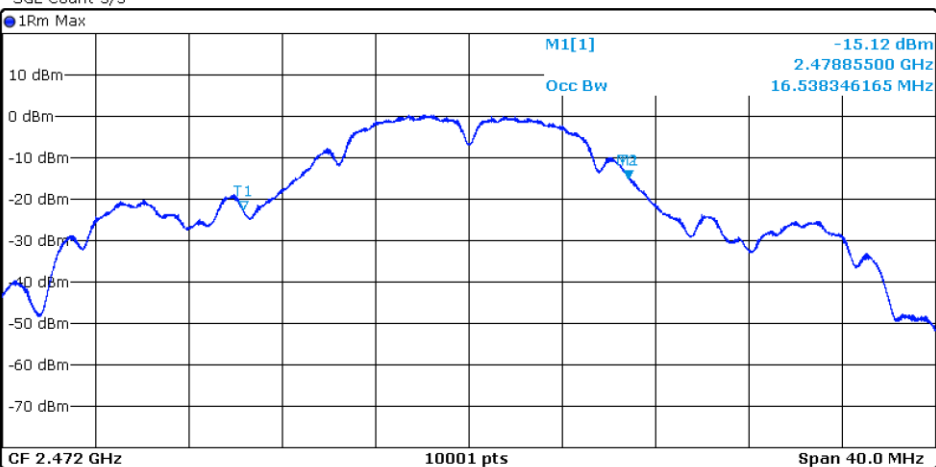


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.422 GHz	-45.24 dBm		
T1		1	2.43143306 GHz	-18.77 dBm	Occ Bw	24.493550645 MHz
T2		1	2.45592661 GHz	-16.96 dBm		

OBW NVNT b 2472MHz Ant1

Spectrum

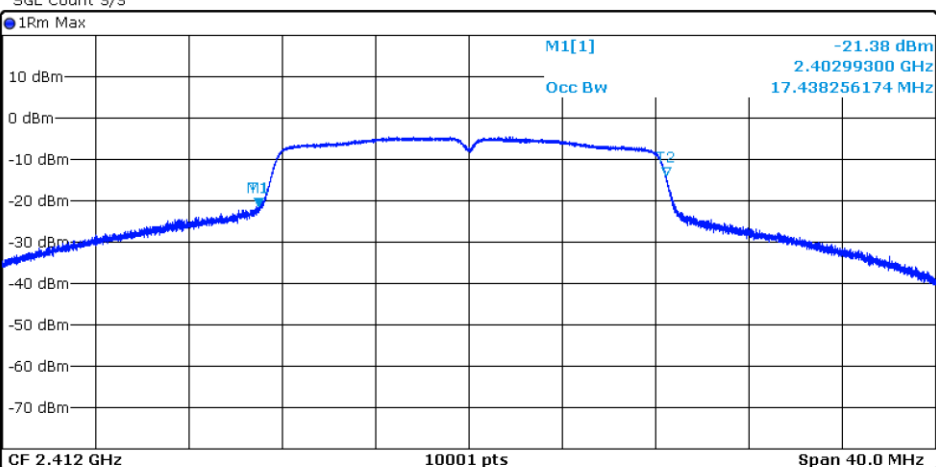
Ref Level 20.00 dBm Offset 2.40 dB RBW 500 kHz
Att 30 dB SWT 1 s VBW 2 MHz Mode Auto Sweep
SGL Count 5/5

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.478855 GHz	-15.12 dBm		
T1	1		2.46231697 GHz	-22.68 dBm	Occ Bw	16.538346165 MHz
T2	1		2.47885531 GHz	-15.12 dBm		

OBW NVNT g 2412MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 500 kHz
Att 30 dB SWT 1 s VBW 2 MHz Mode Auto Sweep
SGL Count 5/5

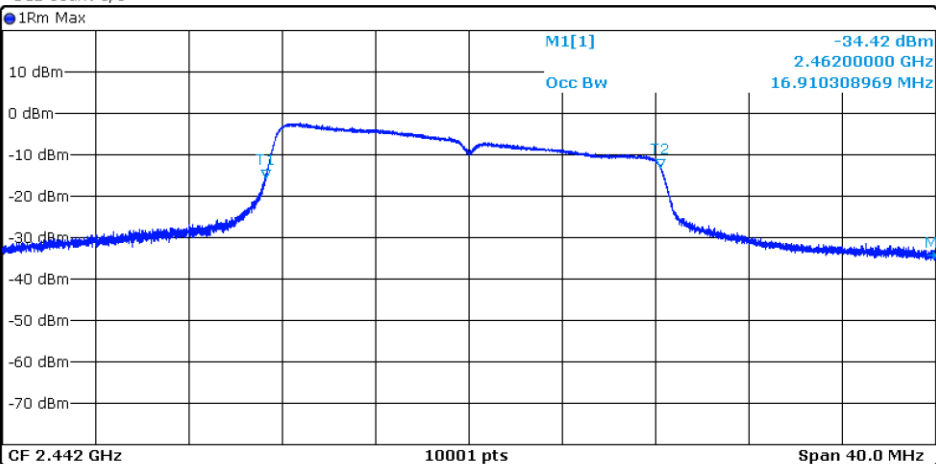
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.402993 GHz	-21.38 dBm		
T1	1		2.4029929 GHz	-21.38 dBm	Occ Bw	17.438256174 MHz
T2	1		2.42043116 GHz	-14.11 dBm		

OBW NVNT g 2442MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.39 dB RBW 500 kHz
Att 30 dB SWT 1 s VBW 2 MHz Mode Auto Sweep
SGL Count 5/5



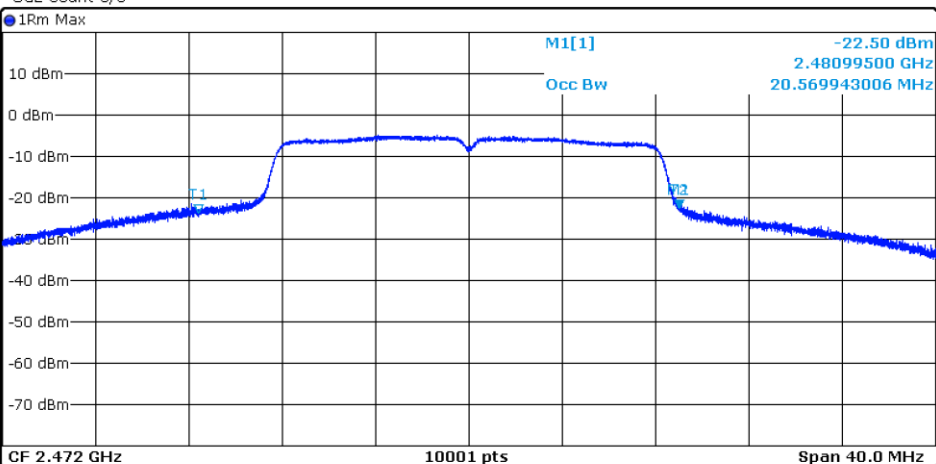
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	2.462 GHz	-34.42 dBm		
T1	1	1	2.43329687 GHz	-15.66 dBm	Occ Bw	16.910308969 MHz
T2	1	1	2.45020718 GHz	-13.14 dBm		

OBW NVNT g 2472MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.40 dB RBW 500 kHz
Att 30 dB SWT 1 s VBW 2 MHz Mode Auto Sweep
SGL Count 5/5



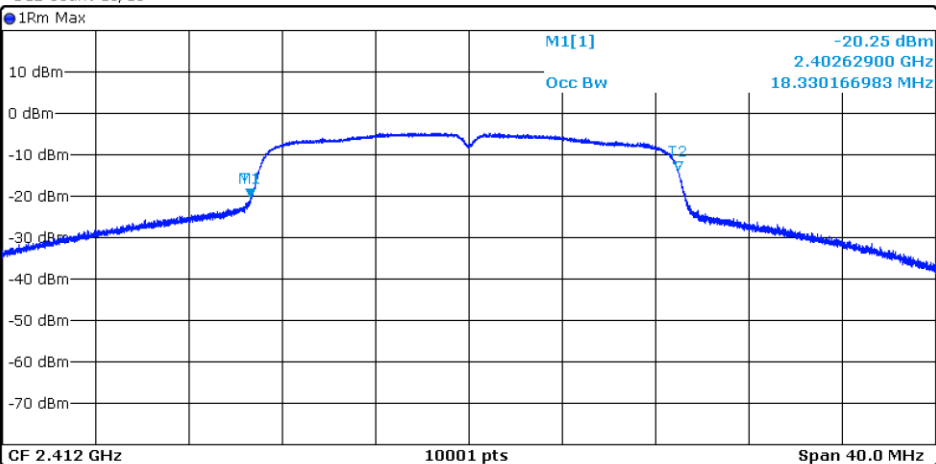
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	2.480995 GHz	-22.50 dBm		
T1	1	1	2.46042516 GHz	-23.61 dBm	Occ Bw	20.569943006 MHz
T2	1	1	2.4809951 GHz	-22.50 dBm		

OBW NVNT n20 2412MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 500 kHz
Att 30 dB SWT 1 s VBW 2 MHz Mode Auto Sweep
SGL Count 10/10



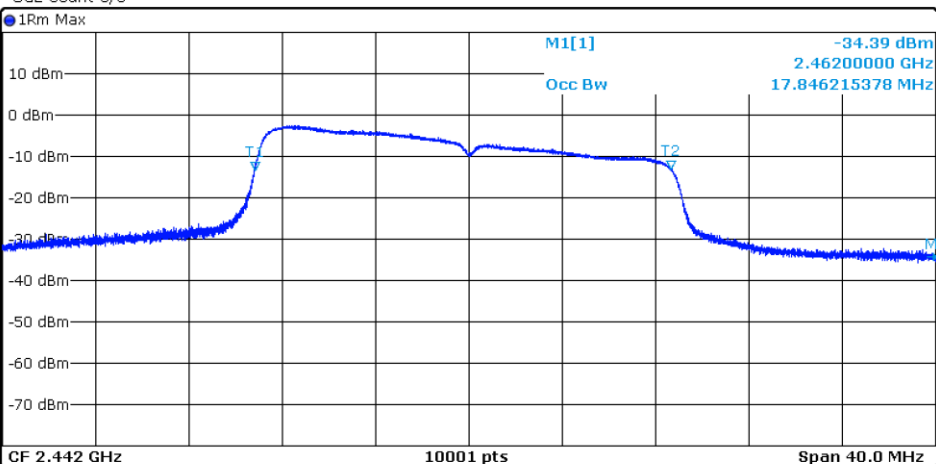
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.402629 GHz	-20.25 dBm		
T1	1		2.40262894 GHz	-20.25 dBm	Occ Bw	18.330166983 MHz
T2	1		2.4209591 GHz	-13.74 dBm		

OBW NVNT n20 2442MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.39 dB RBW 500 kHz
Att 30 dB SWT 1 s VBW 2 MHz Mode Auto Sweep
SGL Count 5/5



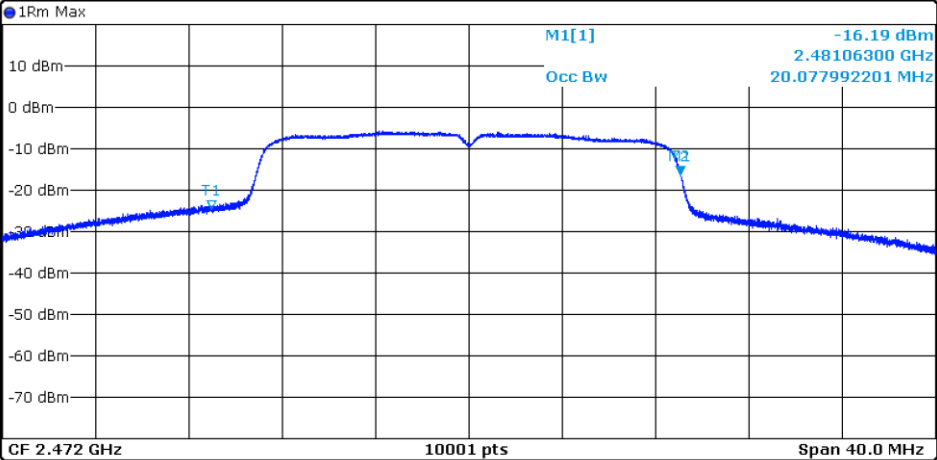
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.462 GHz	-34.39 dBm		
T1	1		2.43282092 GHz	-13.33 dBm	Occ Bw	17.846215378 MHz
T2	1		2.45066713 GHz	-13.07 dBm		

OBW NVNT n20 2472MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.40 dB RBW 500 kHz
 Att 30 dB SWT 1 s VBW 2 MHz Mode Auto Sweep
 SGL Count 10/10



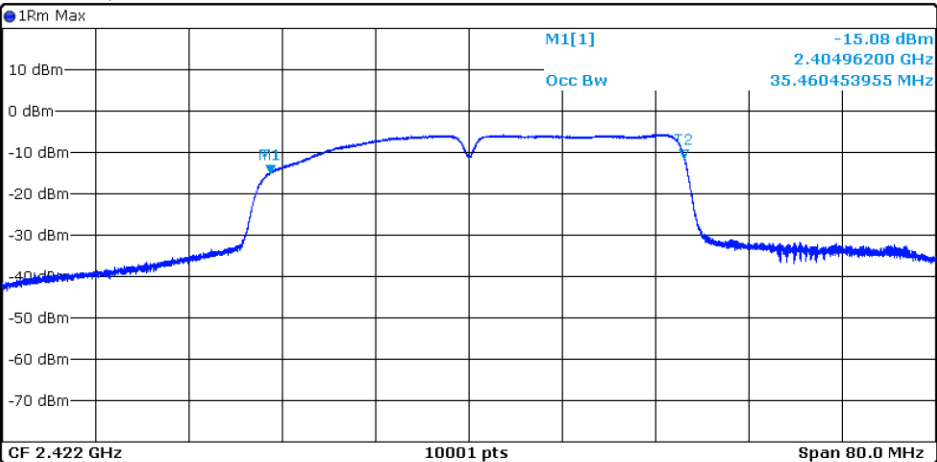
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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.481063 GHz	-16.19 dBm		
T1	1		2.4609851 GHz	-24.61 dBm	Occ Bw	20.077992201 MHz
T2	1		2.48106309 GHz	-16.19 dBm		

OBW NVNT n40 2422MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.39 dB RBW 1 MHz
 Att 30 dB SWT 1 s VBW 3 MHz Mode Auto Sweep
 SGL Count 5/5



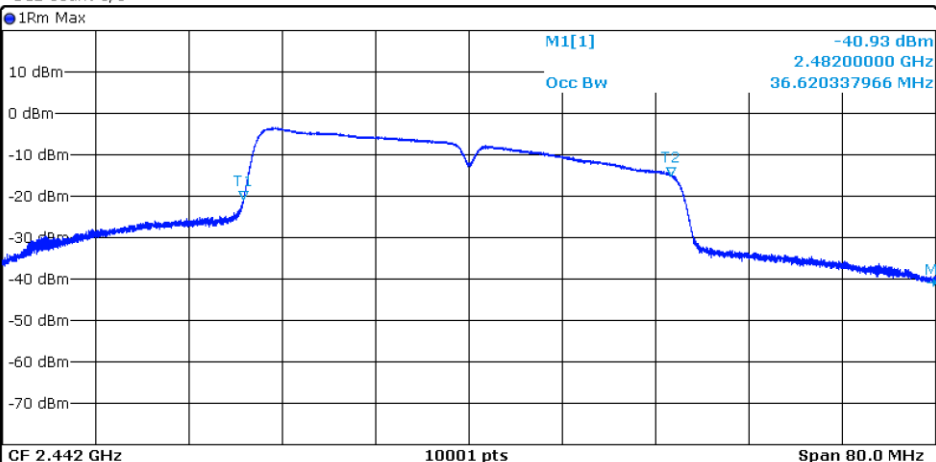
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.404962 GHz	-15.08 dBm		
T1	1		2.4049617 GHz	-15.08 dBm	Occ Bw	35.460453955 MHz
T2	1		2.44042216 GHz	-11.30 dBm		

OBW NVNT n40 2442MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.39 dB RBW 1 MHz
Att 30 dB SWT 1 s VBW 3 MHz Mode Auto Sweep
SGL Count 5/5



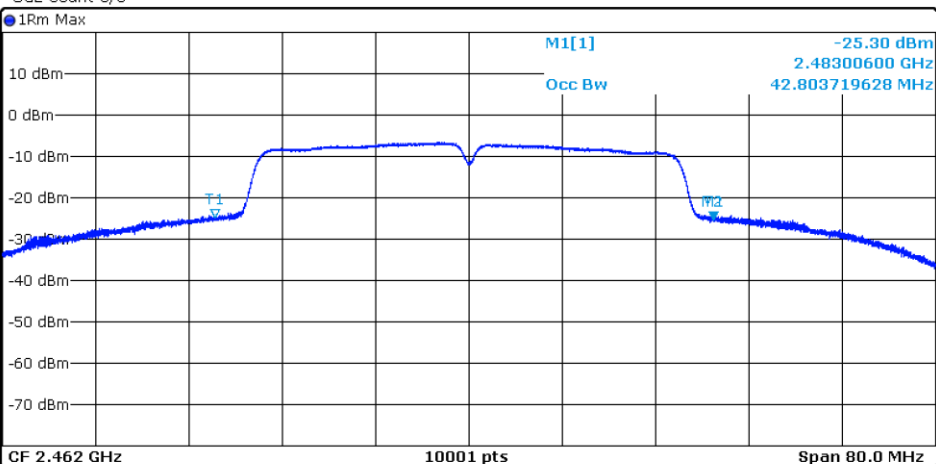
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.482 GHz	-40.93 dBm		
T1	1		2.42268993 GHz	-20.90 dBm	Occ Bw	36.620337966 MHz
T2	1		2.45931027 GHz	-15.04 dBm		

OBW NVNT n40 2462MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.40 dB RBW 1 MHz
Att 30 dB SWT 1 s VBW 3 MHz Mode Auto Sweep
SGL Count 6/6



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.483006 GHz	-25.30 dBm		
T1	1		2.44020218 GHz	-24.75 dBm	Occ Bw	42.803719628 MHz
T2	1		2.4830059 GHz	-25.30 dBm		

4.4 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	b	2412	Ant1	2399.5	-15.31	-10	Pass
NVNT	b	2412	Ant1	2398.5	-11.6	-10	Pass
NVNT	b	2412	Ant1	2397.5	-10.91	-10	Pass
NVNT	b	2412	Ant1	2396.5	-11.85	-10	Pass
NVNT	b	2412	Ant1	2395.5	-17.2	-10	Pass
NVNT	b	2412	Ant1	2394.5	-15.97	-10	Pass
NVNT	b	2412	Ant1	2393.5	-22.18	-10	Pass
NVNT	b	2412	Ant1	2392.5	-20.85	-10	Pass
NVNT	b	2412	Ant1	2391.5	-22.17	-10	Pass
NVNT	b	2412	Ant1	2390.5	-17.91	-10	Pass
NVNT	b	2412	Ant1	2389.5	-22.53	-10	Pass
NVNT	b	2412	Ant1	2388.5	-25.41	-10	Pass
NVNT	b	2412	Ant1	2387.5	-25.74	-10	Pass
NVNT	b	2412	Ant1	2386.5	-25.97	-10	Pass
NVNT	b	2412	Ant1	2385.5	-29.6	-10	Pass
NVNT	b	2412	Ant1	2384.5	-38.08	-10	Pass
NVNT	b	2412	Ant1	2383.5	-37.48	-10	Pass
NVNT	b	2412	Ant1	2383.01	-38.9	-10	Pass
NVNT	b	2412	Ant1	2382.01	-42.46	-20	Pass
NVNT	b	2412	Ant1	2381.01	-46.93	-20	Pass
NVNT	b	2412	Ant1	2380.01	-39.39	-20	Pass
NVNT	b	2412	Ant1	2379.01	-41.56	-20	Pass
NVNT	b	2412	Ant1	2378.01	-44.18	-20	Pass
NVNT	b	2412	Ant1	2377.01	-46.08	-20	Pass
NVNT	b	2412	Ant1	2376.01	-42.63	-20	Pass
NVNT	b	2412	Ant1	2375.01	-45.43	-20	Pass
NVNT	b	2412	Ant1	2374.01	-49.07	-20	Pass
NVNT	b	2412	Ant1	2373.01	-50.73	-20	Pass
NVNT	b	2412	Ant1	2372.01	-49.09	-20	Pass
NVNT	b	2412	Ant1	2371.01	-53.97	-20	Pass
NVNT	b	2412	Ant1	2370.01	-56.19	-20	Pass
NVNT	b	2412	Ant1	2369.01	-55.55	-20	Pass
NVNT	b	2412	Ant1	2368.01	-56.38	-20	Pass
NVNT	b	2412	Ant1	2367.01	-57.55	-20	Pass
NVNT	b	2412	Ant1	2366.01	-58.18	-20	Pass
NVNT	b	2412	Ant1	2365.52	-57.87	-20	Pass
NVNT	b	2472	Ant1	2484	-21.42	-10	Pass
NVNT	b	2472	Ant1	2485	-18.4	-10	Pass
NVNT	b	2472	Ant1	2486	-16.45	-10	Pass
NVNT	b	2472	Ant1	2487	-16.62	-10	Pass
NVNT	b	2472	Ant1	2488	-20.61	-10	Pass
NVNT	b	2472	Ant1	2489	-25.55	-10	Pass
NVNT	b	2472	Ant1	2490	-32.71	-10	Pass
NVNT	b	2472	Ant1	2491	-37.01	-10	Pass
NVNT	b	2472	Ant1	2492	-41.46	-10	Pass
NVNT	b	2472	Ant1	2493	-28.81	-10	Pass
NVNT	b	2472	Ant1	2494	-29.58	-10	Pass
NVNT	b	2472	Ant1	2495	-30.93	-10	Pass
NVNT	b	2472	Ant1	2496	-37.61	-10	Pass
NVNT	b	2472	Ant1	2497	-35.83	-10	Pass
NVNT	b	2472	Ant1	2498	-38.39	-10	Pass
NVNT	b	2472	Ant1	2499	-48.12	-10	Pass
NVNT	b	2472	Ant1	2499.538	-49.34	-10	Pass
NVNT	b	2472	Ant1	2500.538	-47.84	-20	Pass
NVNT	b	2472	Ant1	2501.538	-50.42	-20	Pass
NVNT	b	2472	Ant1	2502.538	-49.57	-20	Pass
NVNT	b	2472	Ant1	2503.538	-49.41	-20	Pass
NVNT	b	2472	Ant1	2504.538	-43.84	-20	Pass
NVNT	b	2472	Ant1	2505.538	-46.43	-20	Pass
NVNT	b	2472	Ant1	2506.538	-47.43	-20	Pass
NVNT	b	2472	Ant1	2507.538	-46.21	-20	Pass
NVNT	b	2472	Ant1	2508.538	-46.42	-20	Pass
NVNT	b	2472	Ant1	2509.538	-49.6	-20	Pass
NVNT	b	2472	Ant1	2510.538	-52.38	-20	Pass
NVNT	b	2472	Ant1	2511.538	-50.3	-20	Pass
NVNT	b	2472	Ant1	2512.538	-49.35	-20	Pass
NVNT	b	2472	Ant1	2513.538	-53.3	-20	Pass
NVNT	b	2472	Ant1	2514.538	-54.96	-20	Pass
NVNT	b	2472	Ant1	2515.538	-55.38	-20	Pass
NVNT	b	2472	Ant1	2516.076	-55.62	-20	Pass
NVNT	g	2412	Ant1	2399.5	-11.76	-10	Pass
NVNT	g	2412	Ant1	2398.5	-12.15	-10	Pass

NVNT	g	2412	Ant1	2397.5	-13.26	-10	Pass
NVNT	g	2412	Ant1	2396.5	-13.79	-10	Pass
NVNT	g	2412	Ant1	2395.5	-15.16	-10	Pass
NVNT	g	2412	Ant1	2394.5	-16.39	-10	Pass
NVNT	g	2412	Ant1	2393.5	-17.41	-10	Pass
NVNT	g	2412	Ant1	2392.5	-18.46	-10	Pass
NVNT	g	2412	Ant1	2391.5	-20.58	-10	Pass
NVNT	g	2412	Ant1	2390.5	-22.52	-10	Pass
NVNT	g	2412	Ant1	2389.5	-24.02	-10	Pass
NVNT	g	2412	Ant1	2388.5	-26.01	-10	Pass
NVNT	g	2412	Ant1	2387.5	-27.35	-10	Pass
NVNT	g	2412	Ant1	2386.5	-28.05	-10	Pass
NVNT	g	2412	Ant1	2385.5	-29.99	-10	Pass
NVNT	g	2412	Ant1	2384.5	-31.12	-10	Pass
NVNT	g	2412	Ant1	2383.5	-33.09	-10	Pass
NVNT	g	2412	Ant1	2383.062	-33.68	-10	Pass
NVNT	g	2412	Ant1	2382.062	-35.07	-20	Pass
NVNT	g	2412	Ant1	2381.062	-36.45	-20	Pass
NVNT	g	2412	Ant1	2380.062	-38.62	-20	Pass
NVNT	g	2412	Ant1	2379.062	-40.17	-20	Pass
NVNT	g	2412	Ant1	2378.062	-42.11	-20	Pass
NVNT	g	2412	Ant1	2377.062	-44.21	-20	Pass
NVNT	g	2412	Ant1	2376.062	-45.45	-20	Pass
NVNT	g	2412	Ant1	2375.062	-47.19	-20	Pass
NVNT	g	2412	Ant1	2374.062	-49.02	-20	Pass
NVNT	g	2412	Ant1	2373.062	-50.61	-20	Pass
NVNT	g	2412	Ant1	2372.062	-52.11	-20	Pass
NVNT	g	2412	Ant1	2371.062	-54.12	-20	Pass
NVNT	g	2412	Ant1	2370.062	-55.32	-20	Pass
NVNT	g	2412	Ant1	2369.062	-56.11	-20	Pass
NVNT	g	2412	Ant1	2368.062	-56.42	-20	Pass
NVNT	g	2412	Ant1	2367.062	-56.55	-20	Pass
NVNT	g	2412	Ant1	2366.062	-56.59	-20	Pass
NVNT	g	2412	Ant1	2365.624	-56.58	-20	Pass
NVNT	g	2472	Ant1	2484	-11.68	-10	Pass
NVNT	g	2472	Ant1	2485	-11.75	-10	Pass
NVNT	g	2472	Ant1	2486	-12.33	-10	Pass
NVNT	g	2472	Ant1	2487	-13.14	-10	Pass
NVNT	g	2472	Ant1	2488	-13.34	-10	Pass
NVNT	g	2472	Ant1	2489	-14.46	-10	Pass
NVNT	g	2472	Ant1	2490	-15.16	-10	Pass
NVNT	g	2472	Ant1	2491	-15.88	-10	Pass
NVNT	g	2472	Ant1	2492	-17.38	-10	Pass
NVNT	g	2472	Ant1	2493	-18.52	-10	Pass
NVNT	g	2472	Ant1	2494	-20.35	-10	Pass
NVNT	g	2472	Ant1	2495	-22.84	-10	Pass
NVNT	g	2472	Ant1	2496	-25.26	-10	Pass
NVNT	g	2472	Ant1	2497	-27.18	-10	Pass
NVNT	g	2472	Ant1	2498	-28.28	-10	Pass
NVNT	g	2472	Ant1	2499	-29.61	-10	Pass
NVNT	g	2472	Ant1	2500	-31.8	-10	Pass
NVNT	g	2472	Ant1	2501	-33.27	-10	Pass
NVNT	g	2472	Ant1	2502	-35.03	-10	Pass
NVNT	g	2472	Ant1	2503	-35.61	-10	Pass
NVNT	g	2472	Ant1	2503.57	-37.04	-10	Pass
NVNT	g	2472	Ant1	2504.57	-38.61	-20	Pass
NVNT	g	2472	Ant1	2505.57	-39.65	-20	Pass
NVNT	g	2472	Ant1	2506.57	-41.58	-20	Pass
NVNT	g	2472	Ant1	2507.57	-42.49	-20	Pass
NVNT	g	2472	Ant1	2508.57	-43.38	-20	Pass
NVNT	g	2472	Ant1	2509.57	-44.2	-20	Pass
NVNT	g	2472	Ant1	2510.57	-45.13	-20	Pass
NVNT	g	2472	Ant1	2511.57	-45.72	-20	Pass
NVNT	g	2472	Ant1	2512.57	-46.43	-20	Pass
NVNT	g	2472	Ant1	2513.57	-47.17	-20	Pass
NVNT	g	2472	Ant1	2514.57	-48.57	-20	Pass
NVNT	g	2472	Ant1	2515.57	-49.73	-20	Pass
NVNT	g	2472	Ant1	2516.57	-51.14	-20	Pass
NVNT	g	2472	Ant1	2517.57	-52.82	-20	Pass
NVNT	g	2472	Ant1	2518.57	-54.13	-20	Pass
NVNT	g	2472	Ant1	2519.57	-55.24	-20	Pass
NVNT	g	2472	Ant1	2520.57	-55.75	-20	Pass
NVNT	g	2472	Ant1	2521.57	-55.96	-20	Pass
NVNT	g	2472	Ant1	2522.57	-56.16	-20	Pass
NVNT	g	2472	Ant1	2523.57	-56.27	-20	Pass

NVNT	g	2472	Ant1	2524.14	-56.28	-20	Pass
NVNT	n20	2412	Ant1	2399.5	-11.59	-10	Pass
NVNT	n20	2412	Ant1	2398.5	-11.89	-10	Pass
NVNT	n20	2412	Ant1	2397.5	-12.73	-10	Pass
NVNT	n20	2412	Ant1	2396.5	-13.6	-10	Pass
NVNT	n20	2412	Ant1	2395.5	-14.36	-10	Pass
NVNT	n20	2412	Ant1	2394.5	-15.33	-10	Pass
NVNT	n20	2412	Ant1	2393.5	-16.37	-10	Pass
NVNT	n20	2412	Ant1	2392.5	-17.34	-10	Pass
NVNT	n20	2412	Ant1	2391.5	-19.13	-10	Pass
NVNT	n20	2412	Ant1	2390.5	-20.98	-10	Pass
NVNT	n20	2412	Ant1	2389.5	-22.67	-10	Pass
NVNT	n20	2412	Ant1	2388.5	-24.56	-10	Pass
NVNT	n20	2412	Ant1	2387.5	-26.23	-10	Pass
NVNT	n20	2412	Ant1	2386.5	-27.99	-10	Pass
NVNT	n20	2412	Ant1	2385.5	-29.09	-10	Pass
NVNT	n20	2412	Ant1	2384.5	-30.44	-10	Pass
NVNT	n20	2412	Ant1	2383.5	-31.66	-10	Pass
NVNT	n20	2412	Ant1	2382.5	-33.25	-10	Pass
NVNT	n20	2412	Ant1	2382.17	-33.92	-10	Pass
NVNT	n20	2412	Ant1	2381.17	-35.07	-20	Pass
NVNT	n20	2412	Ant1	2380.17	-36.89	-20	Pass
NVNT	n20	2412	Ant1	2379.17	-38.66	-20	Pass
NVNT	n20	2412	Ant1	2378.17	-40.23	-20	Pass
NVNT	n20	2412	Ant1	2377.17	-41.91	-20	Pass
NVNT	n20	2412	Ant1	2376.17	-43.92	-20	Pass
NVNT	n20	2412	Ant1	2375.17	-45.54	-20	Pass
NVNT	n20	2412	Ant1	2374.17	-47.97	-20	Pass
NVNT	n20	2412	Ant1	2373.17	-49.43	-20	Pass
NVNT	n20	2412	Ant1	2372.17	-51.03	-20	Pass
NVNT	n20	2412	Ant1	2371.17	-52.85	-20	Pass
NVNT	n20	2412	Ant1	2370.17	-54.39	-20	Pass
NVNT	n20	2412	Ant1	2369.17	-55.7	-20	Pass
NVNT	n20	2412	Ant1	2368.17	-56.22	-20	Pass
NVNT	n20	2412	Ant1	2367.17	-56.42	-20	Pass
NVNT	n20	2412	Ant1	2366.17	-56.5	-20	Pass
NVNT	n20	2412	Ant1	2365.17	-56.51	-20	Pass
NVNT	n20	2412	Ant1	2364.17	-56.46	-20	Pass
NVNT	n20	2412	Ant1	2363.84	-56.48	-20	Pass
NVNT	n20	2472	Ant1	2484	-13.19	-10	Pass
NVNT	n20	2472	Ant1	2485	-13.49	-10	Pass
NVNT	n20	2472	Ant1	2486	-13.99	-10	Pass
NVNT	n20	2472	Ant1	2487	-14.58	-10	Pass
NVNT	n20	2472	Ant1	2488	-15.12	-10	Pass
NVNT	n20	2472	Ant1	2489	-15.71	-10	Pass
NVNT	n20	2472	Ant1	2490	-16.3	-10	Pass
NVNT	n20	2472	Ant1	2491	-17.32	-10	Pass
NVNT	n20	2472	Ant1	2492	-18.4	-10	Pass
NVNT	n20	2472	Ant1	2493	-19.67	-10	Pass
NVNT	n20	2472	Ant1	2494	-21.25	-10	Pass
NVNT	n20	2472	Ant1	2495	-22.87	-10	Pass
NVNT	n20	2472	Ant1	2496	-25.3	-10	Pass
NVNT	n20	2472	Ant1	2497	-28.43	-10	Pass
NVNT	n20	2472	Ant1	2498	-30.73	-10	Pass
NVNT	n20	2472	Ant1	2499	-31.96	-10	Pass
NVNT	n20	2472	Ant1	2500	-33.26	-10	Pass
NVNT	n20	2472	Ant1	2501	-34.96	-10	Pass
NVNT	n20	2472	Ant1	2502	-36.64	-10	Pass
NVNT	n20	2472	Ant1	2503	-37.9	-10	Pass
NVNT	n20	2472	Ant1	2503.078	-37.87	-10	Pass
NVNT	n20	2472	Ant1	2504.078	-39.25	-20	Pass
NVNT	n20	2472	Ant1	2505.078	-40.59	-20	Pass
NVNT	n20	2472	Ant1	2506.078	-41.9	-20	Pass
NVNT	n20	2472	Ant1	2507.078	-43.14	-20	Pass
NVNT	n20	2472	Ant1	2508.078	-44.26	-20	Pass
NVNT	n20	2472	Ant1	2509.078	-45.35	-20	Pass
NVNT	n20	2472	Ant1	2510.078	-46.23	-20	Pass
NVNT	n20	2472	Ant1	2511.078	-46.96	-20	Pass
NVNT	n20	2472	Ant1	2512.078	-47.96	-20	Pass
NVNT	n20	2472	Ant1	2513.078	-48.88	-20	Pass
NVNT	n20	2472	Ant1	2514.078	-49.73	-20	Pass
NVNT	n20	2472	Ant1	2515.078	-50.71	-20	Pass
NVNT	n20	2472	Ant1	2516.078	-51.63	-20	Pass
NVNT	n20	2472	Ant1	2517.078	-53.04	-20	Pass
NVNT	n20	2472	Ant1	2518.078	-54.3	-20	Pass

NVNT	n20	2472	Ant1	2519.078	-55.2	-20	Pass
NVNT	n20	2472	Ant1	2520.078	-55.67	-20	Pass
NVNT	n20	2472	Ant1	2521.078	-56	-20	Pass
NVNT	n20	2472	Ant1	2522.078	-56.17	-20	Pass
NVNT	n20	2472	Ant1	2523.078	-56.25	-20	Pass
NVNT	n20	2472	Ant1	2523.156	-56.29	-20	Pass
NVNT	n40	2422	Ant1	2399.5	-22.21	-10	Pass
NVNT	n40	2422	Ant1	2398.5	-22.68	-10	Pass
NVNT	n40	2422	Ant1	2397.5	-23.03	-10	Pass
NVNT	n40	2422	Ant1	2396.5	-23.36	-10	Pass
NVNT	n40	2422	Ant1	2395.5	-23.83	-10	Pass
NVNT	n40	2422	Ant1	2394.5	-24.6	-10	Pass
NVNT	n40	2422	Ant1	2393.5	-24.78	-10	Pass
NVNT	n40	2422	Ant1	2392.5	-25.36	-10	Pass
NVNT	n40	2422	Ant1	2391.5	-25.71	-10	Pass
NVNT	n40	2422	Ant1	2390.5	-25.89	-10	Pass
NVNT	n40	2422	Ant1	2389.5	-26.53	-10	Pass
NVNT	n40	2422	Ant1	2388.5	-26.55	-10	Pass
NVNT	n40	2422	Ant1	2387.5	-27.2	-10	Pass
NVNT	n40	2422	Ant1	2386.5	-27.42	-10	Pass
NVNT	n40	2422	Ant1	2385.5	-27.71	-10	Pass
NVNT	n40	2422	Ant1	2384.5	-28.12	-10	Pass
NVNT	n40	2422	Ant1	2383.5	-28.74	-10	Pass
NVNT	n40	2422	Ant1	2382.5	-29.09	-10	Pass
NVNT	n40	2422	Ant1	2381.5	-29.49	-10	Pass
NVNT	n40	2422	Ant1	2380.5	-30.37	-10	Pass
NVNT	n40	2422	Ant1	2379.5	-31.11	-10	Pass
NVNT	n40	2422	Ant1	2378.5	-31.79	-10	Pass
NVNT	n40	2422	Ant1	2377.5	-32.91	-10	Pass
NVNT	n40	2422	Ant1	2376.5	-33.95	-10	Pass
NVNT	n40	2422	Ant1	2375.5	-35.34	-10	Pass
NVNT	n40	2422	Ant1	2374.5	-36.58	-10	Pass
NVNT	n40	2422	Ant1	2373.5	-38.07	-10	Pass
NVNT	n40	2422	Ant1	2372.5	-40.85	-10	Pass
NVNT	n40	2422	Ant1	2371.5	-43.66	-10	Pass
NVNT	n40	2422	Ant1	2370.5	-47.08	-10	Pass
NVNT	n40	2422	Ant1	2369.5	-50.22	-10	Pass
NVNT	n40	2422	Ant1	2368.5	-52.86	-10	Pass
NVNT	n40	2422	Ant1	2367.5	-54.08	-10	Pass
NVNT	n40	2422	Ant1	2366.5	-54.83	-10	Pass
NVNT	n40	2422	Ant1	2365.5	-55.18	-10	Pass
NVNT	n40	2422	Ant1	2365.04	-55.15	-10	Pass
NVNT	n40	2422	Ant1	2364.04	-55.22	-20	Pass
NVNT	n40	2422	Ant1	2363.04	-55.17	-20	Pass
NVNT	n40	2422	Ant1	2362.04	-55.38	-20	Pass
NVNT	n40	2422	Ant1	2361.04	-55.64	-20	Pass
NVNT	n40	2422	Ant1	2360.04	-55.66	-20	Pass
NVNT	n40	2422	Ant1	2359.04	-55.84	-20	Pass
NVNT	n40	2422	Ant1	2358.04	-55.94	-20	Pass
NVNT	n40	2422	Ant1	2357.04	-56.02	-20	Pass
NVNT	n40	2422	Ant1	2356.04	-56.03	-20	Pass
NVNT	n40	2422	Ant1	2355.04	-56.02	-20	Pass
NVNT	n40	2422	Ant1	2354.04	-56.1	-20	Pass
NVNT	n40	2422	Ant1	2353.04	-56.13	-20	Pass
NVNT	n40	2422	Ant1	2352.04	-56.14	-20	Pass
NVNT	n40	2422	Ant1	2351.04	-56.12	-20	Pass
NVNT	n40	2422	Ant1	2350.04	-56.16	-20	Pass
NVNT	n40	2422	Ant1	2349.04	-56.13	-20	Pass
NVNT	n40	2422	Ant1	2348.04	-56.2	-20	Pass
NVNT	n40	2422	Ant1	2347.04	-56.17	-20	Pass
NVNT	n40	2422	Ant1	2346.04	-56.19	-20	Pass
NVNT	n40	2422	Ant1	2345.04	-56.22	-20	Pass
NVNT	n40	2422	Ant1	2344.04	-56.23	-20	Pass
NVNT	n40	2422	Ant1	2343.04	-56.41	-20	Pass
NVNT	n40	2422	Ant1	2342.04	-56.28	-20	Pass
NVNT	n40	2422	Ant1	2341.04	-56.29	-20	Pass
NVNT	n40	2422	Ant1	2340.04	-56.27	-20	Pass
NVNT	n40	2422	Ant1	2339.04	-56.29	-20	Pass
NVNT	n40	2422	Ant1	2338.04	-56.33	-20	Pass
NVNT	n40	2422	Ant1	2337.04	-56.32	-20	Pass
NVNT	n40	2422	Ant1	2336.04	-56.32	-20	Pass
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NVNT	n40	2422	Ant1	2332.04	-56.36	-20	Pass

NVNT	n40	2422	Ant1	2331.04	-56.37	-20	Pass
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NVNT	n40	2422	Ant1	2329.58	-56.38	-20	Pass
NVNT	n40	2462	Ant1	2484	-13.97	-10	Pass
NVNT	n40	2462	Ant1	2485	-13.6	-10	Pass
NVNT	n40	2462	Ant1	2486	-13.78	-10	Pass
NVNT	n40	2462	Ant1	2487	-13.77	-10	Pass
NVNT	n40	2462	Ant1	2488	-14.55	-10	Pass
NVNT	n40	2462	Ant1	2489	-14.63	-10	Pass
NVNT	n40	2462	Ant1	2490	-14.87	-10	Pass
NVNT	n40	2462	Ant1	2491	-15.46	-10	Pass
NVNT	n40	2462	Ant1	2492	-15.87	-10	Pass
NVNT	n40	2462	Ant1	2493	-16.09	-10	Pass
NVNT	n40	2462	Ant1	2494	-16.82	-10	Pass
NVNT	n40	2462	Ant1	2495	-17.18	-10	Pass
NVNT	n40	2462	Ant1	2496	-17.8	-10	Pass
NVNT	n40	2462	Ant1	2497	-18.52	-10	Pass
NVNT	n40	2462	Ant1	2498	-19.47	-10	Pass
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NVNT	n40	2462	Ant1	2503	-24.39	-10	Pass
NVNT	n40	2462	Ant1	2504	-25.43	-10	Pass
NVNT	n40	2462	Ant1	2505	-26.72	-10	Pass
NVNT	n40	2462	Ant1	2506	-28.22	-10	Pass
NVNT	n40	2462	Ant1	2507	-28.88	-10	Pass
NVNT	n40	2462	Ant1	2508	-30.75	-10	Pass
NVNT	n40	2462	Ant1	2509	-31.26	-10	Pass
NVNT	n40	2462	Ant1	2510	-32.91	-10	Pass
NVNT	n40	2462	Ant1	2511	-33.88	-10	Pass
NVNT	n40	2462	Ant1	2512	-34.81	-10	Pass
NVNT	n40	2462	Ant1	2513	-35.08	-10	Pass
NVNT	n40	2462	Ant1	2514	-36.03	-10	Pass
NVNT	n40	2462	Ant1	2515	-36.15	-10	Pass
NVNT	n40	2462	Ant1	2516	-37.23	-10	Pass
NVNT	n40	2462	Ant1	2517	-36.92	-10	Pass
NVNT	n40	2462	Ant1	2518	-39.03	-10	Pass
NVNT	n40	2462	Ant1	2519	-40.38	-10	Pass
NVNT	n40	2462	Ant1	2520	-42.39	-10	Pass
NVNT	n40	2462	Ant1	2521	-44.85	-10	Pass
NVNT	n40	2462	Ant1	2522	-47.03	-10	Pass
NVNT	n40	2462	Ant1	2523	-49.09	-10	Pass
NVNT	n40	2462	Ant1	2524	-50.75	-10	Pass
NVNT	n40	2462	Ant1	2525	-52.67	-10	Pass
NVNT	n40	2462	Ant1	2525.804	-53.96	-10	Pass
NVNT	n40	2462	Ant1	2526.804	-54.74	-20	Pass
NVNT	n40	2462	Ant1	2527.804	-55.27	-20	Pass
NVNT	n40	2462	Ant1	2528.804	-55.63	-20	Pass
NVNT	n40	2462	Ant1	2529.804	-55.78	-20	Pass
NVNT	n40	2462	Ant1	2530.804	-55.86	-20	Pass
NVNT	n40	2462	Ant1	2531.804	-55.86	-20	Pass
NVNT	n40	2462	Ant1	2532.804	-55.11	-20	Pass
NVNT	n40	2462	Ant1	2533.804	-54.19	-20	Pass
NVNT	n40	2462	Ant1	2534.804	-55.3	-20	Pass
NVNT	n40	2462	Ant1	2535.804	-52.55	-20	Pass
NVNT	n40	2462	Ant1	2536.804	-54.03	-20	Pass
NVNT	n40	2462	Ant1	2537.804	-53.77	-20	Pass
NVNT	n40	2462	Ant1	2538.804	-54.42	-20	Pass
NVNT	n40	2462	Ant1	2539.804	-54.65	-20	Pass
NVNT	n40	2462	Ant1	2540.804	-54.9	-20	Pass
NVNT	n40	2462	Ant1	2541.804	-53.33	-20	Pass
NVNT	n40	2462	Ant1	2542.804	-52.53	-20	Pass
NVNT	n40	2462	Ant1	2543.804	-51.92	-20	Pass
NVNT	n40	2462	Ant1	2544.804	-52.13	-20	Pass
NVNT	n40	2462	Ant1	2545.804	-52.28	-20	Pass
NVNT	n40	2462	Ant1	2546.804	-54.39	-20	Pass
NVNT	n40	2462	Ant1	2547.804	-54.74	-20	Pass
NVNT	n40	2462	Ant1	2548.804	-53.9	-20	Pass
NVNT	n40	2462	Ant1	2549.804	-55.66	-20	Pass
NVNT	n40	2462	Ant1	2550.804	-53.6	-20	Pass
NVNT	n40	2462	Ant1	2551.804	-51.55	-20	Pass
NVNT	n40	2462	Ant1	2552.804	-47.49	-20	Pass
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NVNT	n40	2462	Ant1	2554.804	-48.17	-20	Pass

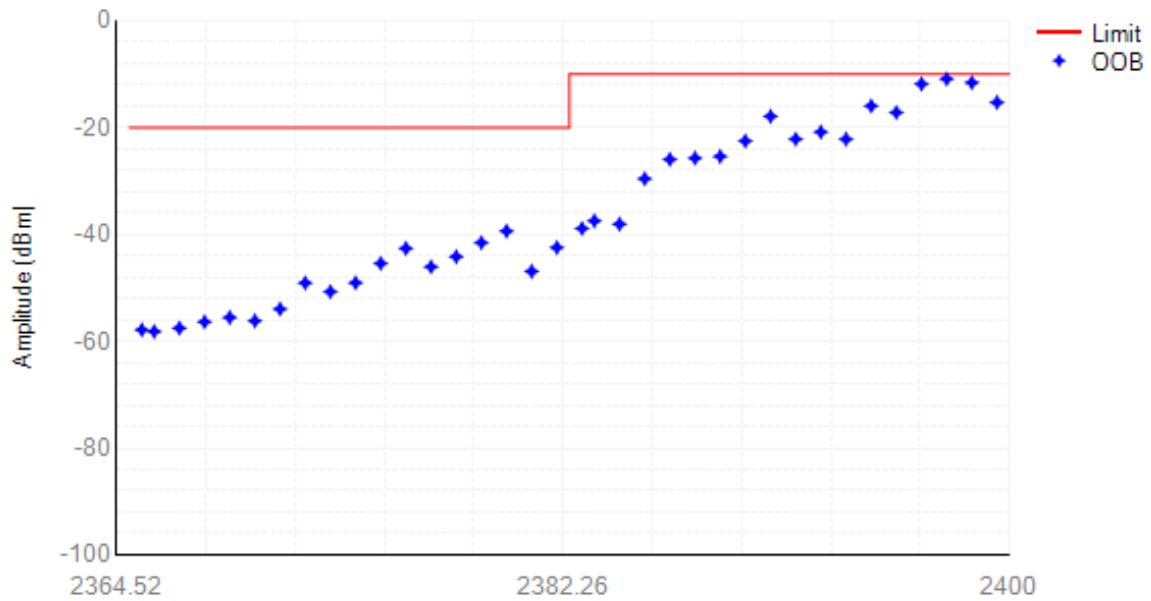
NVNT	n40	2462	Ant1	2555.804	-50.84	-20	Pass
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NVNT	n40	2462	Ant1	2558.804	-46.06	-20	Pass
NVNT	n40	2462	Ant1	2559.804	-48.5	-20	Pass
NVNT	n40	2462	Ant1	2560.804	-48.85	-20	Pass
NVNT	n40	2462	Ant1	2561.804	-55.35	-20	Pass
NVNT	n40	2462	Ant1	2562.804	-50.87	-20	Pass
NVNT	n40	2462	Ant1	2563.804	-45.72	-20	Pass
NVNT	n40	2462	Ant1	2564.804	-46.24	-20	Pass
NVNT	n40	2462	Ant1	2565.804	-48.27	-20	Pass
NVNT	n40	2462	Ant1	2566.804	-49.21	-20	Pass
NVNT	n40	2462	Ant1	2567.804	-50	-20	Pass
NVNT	n40	2462	Ant1	2568.608	-49.86	-20	Pass

Test Graphs

Tx. Emissions OOB NVNT b 2412MHz Ant1

Frequency: 2412 MHz

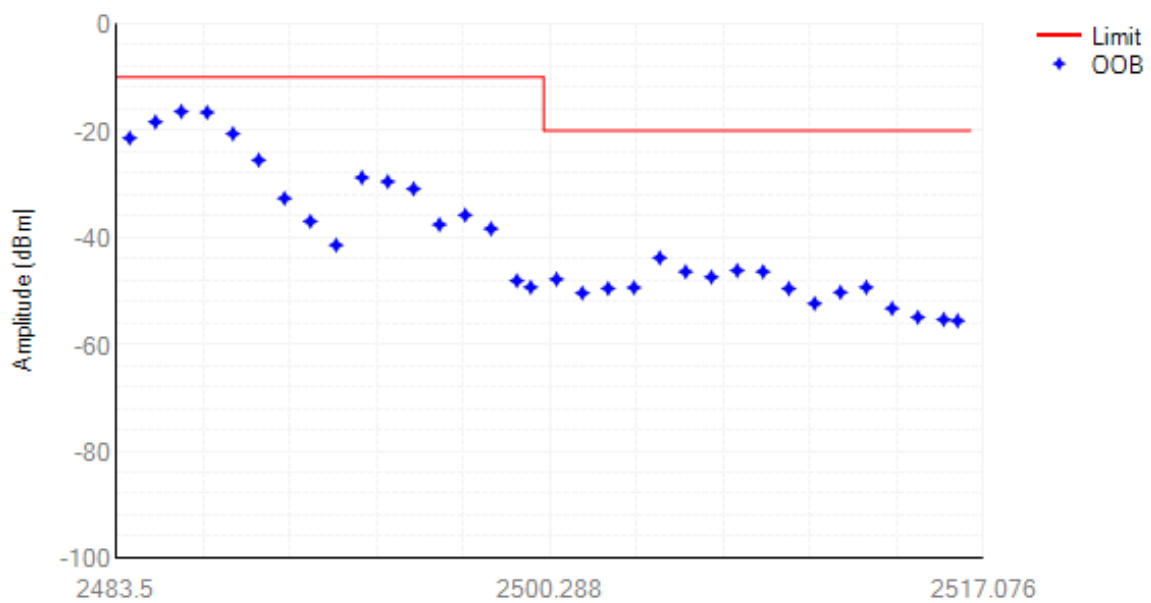
Transmitter unwanted emissions in the out-of-band domain



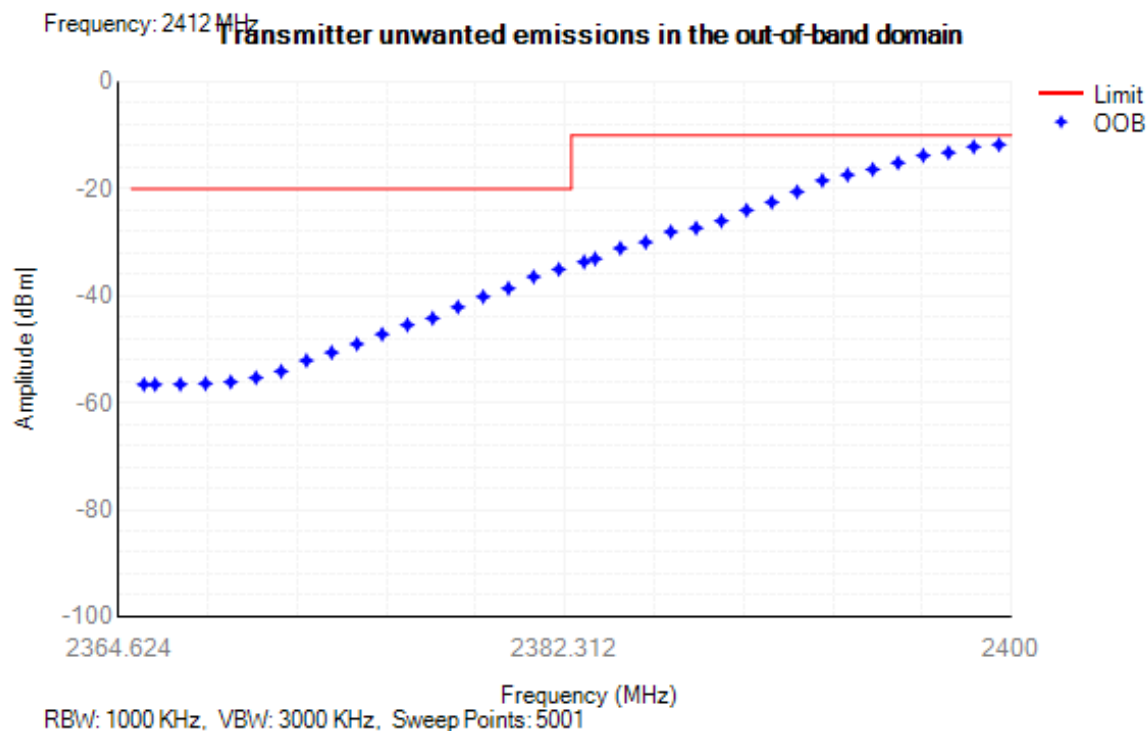
Tx. Emissions OOB NVNT b 2472MHz Ant1

Frequency: 2472 MHz

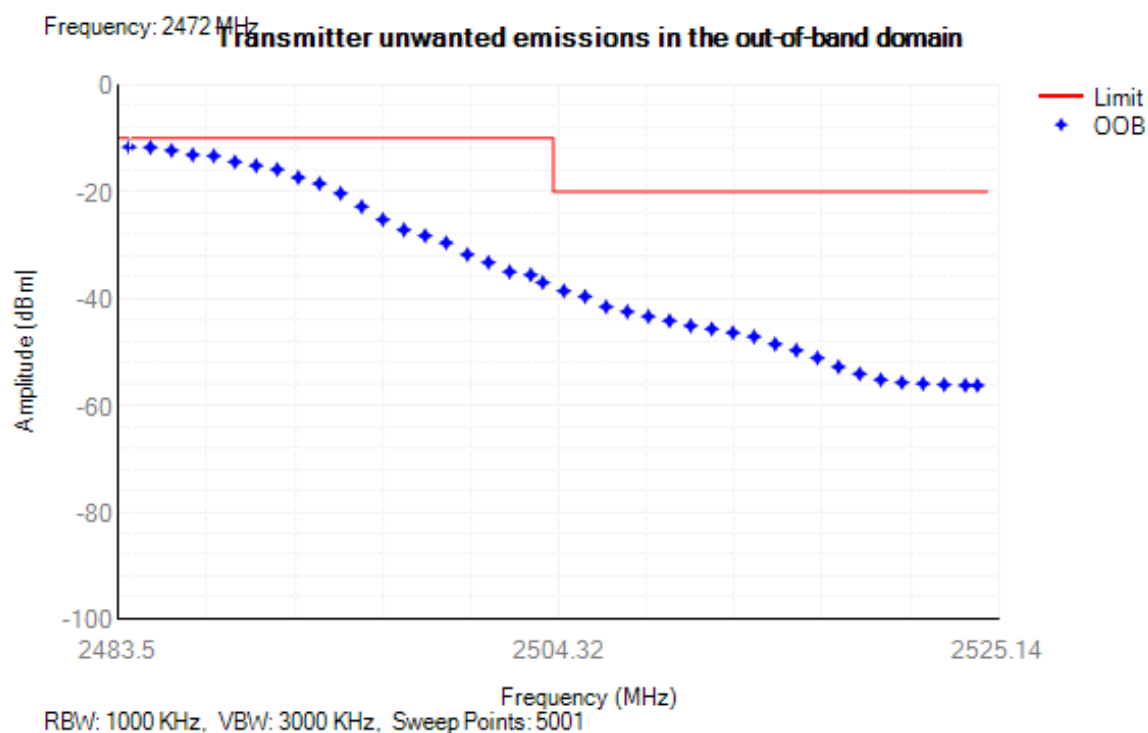
Transmitter unwanted emissions in the out-of-band domain



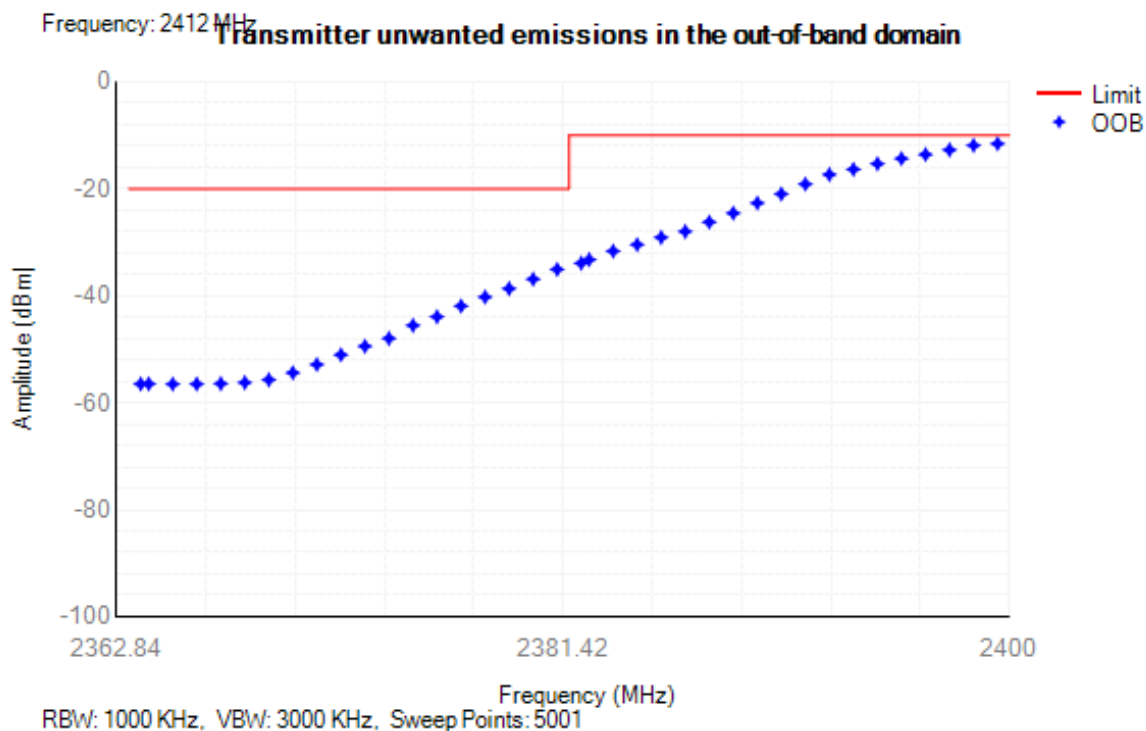
Tx. Emissions OOB NVNT g 2412MHz Ant1



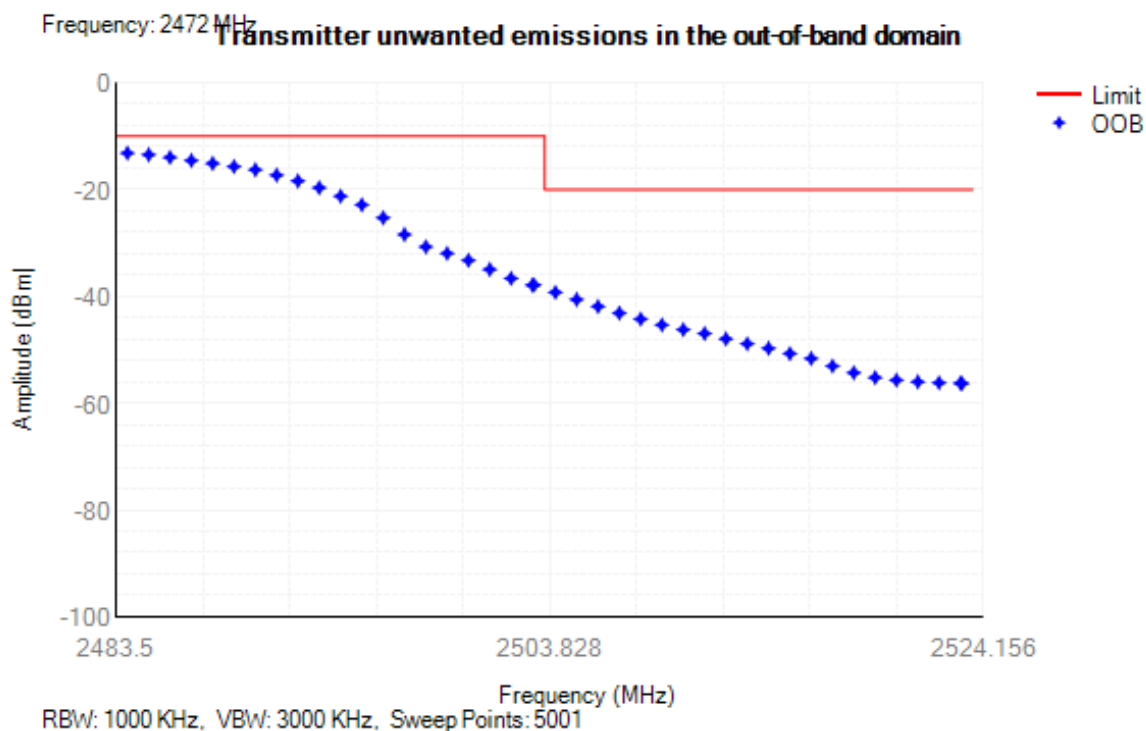
Tx. Emissions OOB NVNT g 2472MHz Ant1



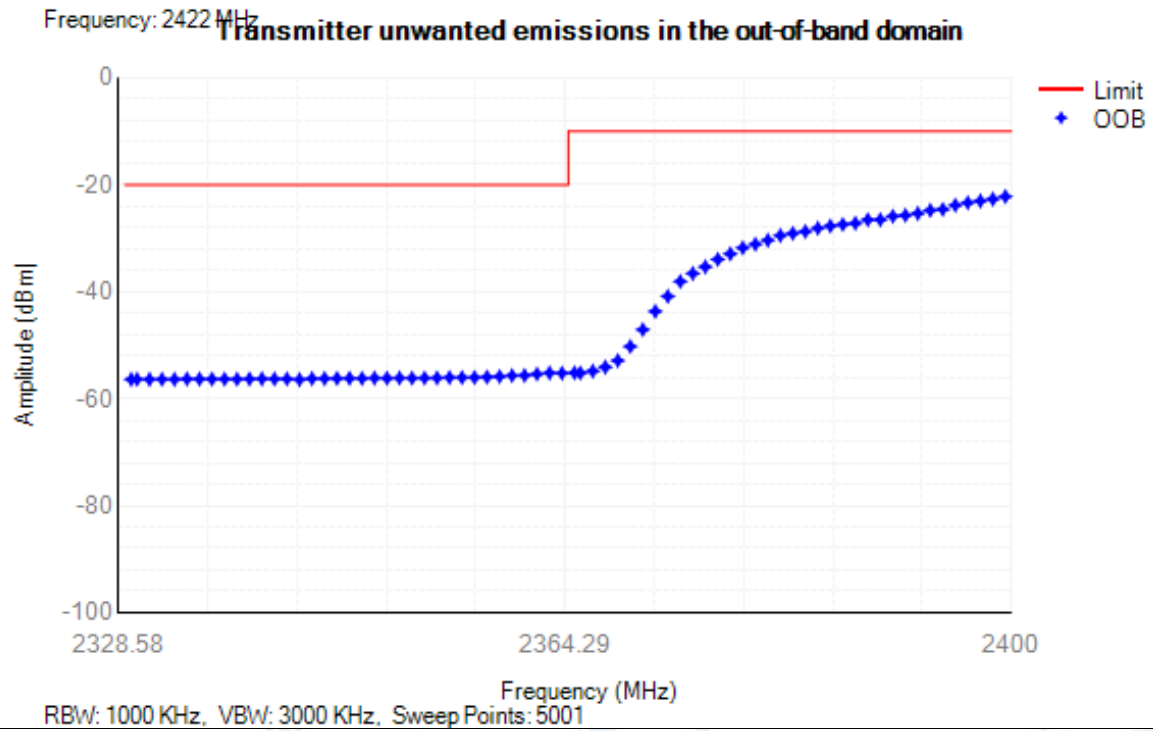
Tx. Emissions OOB NVNT n20 2412MHz Ant1



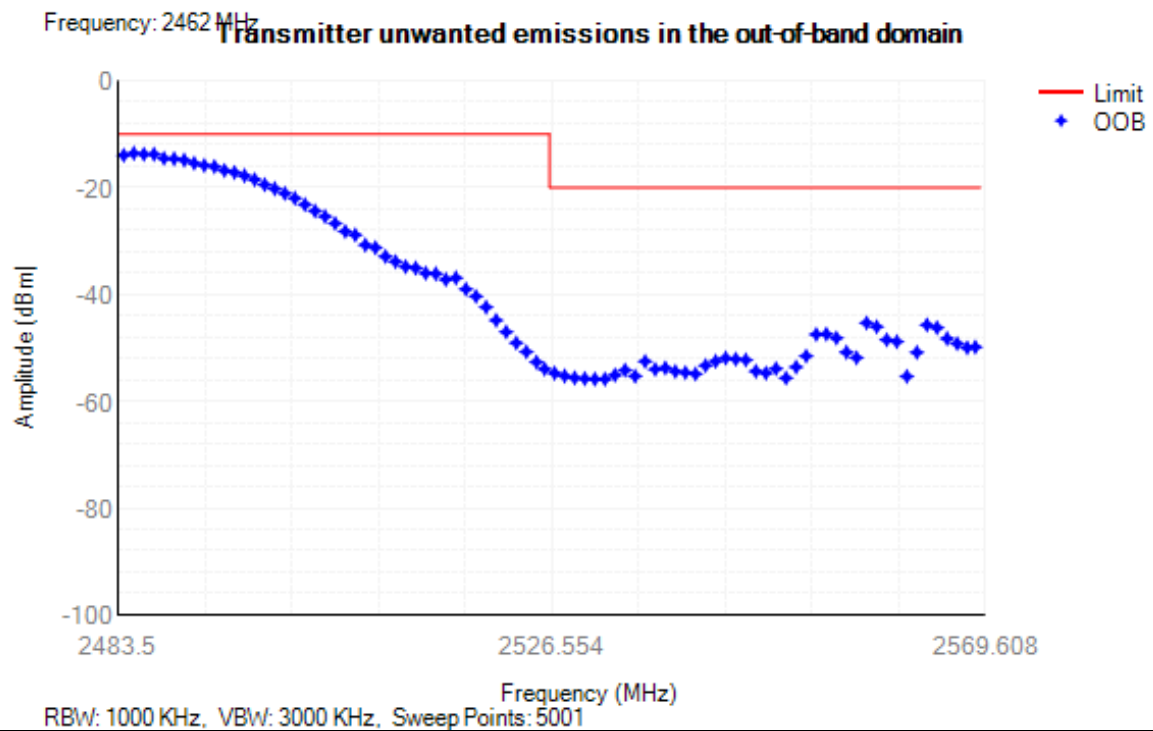
Tx. Emissions OOB NVNT n20 2472MHz Ant1



Tx. Emissions OOB NVNT n40 2422MHz Ant1



Tx. Emissions OOB NVNT n40 2462MHz Ant1



4.5 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	b	2412	Ant1	30 -47	42.85	-80.72	NA	-36	Pass
NVNT	b	2412	Ant1	47 -74	58.60	-80.18	NA	-54	Pass
NVNT	b	2412	Ant1	74 -87.5	77.60	-79.85	NA	-36	Pass
NVNT	b	2412	Ant1	87.5 -118	117.60	-80.40	NA	-54	Pass
NVNT	b	2412	Ant1	118 -174	145.85	-79.42	NA	-36	Pass
NVNT	b	2412	Ant1	174 -230	203.30	-79.28	NA	-54	Pass
NVNT	b	2412	Ant1	230 -470	316.25	-78.38	NA	-36	Pass
NVNT	b	2412	Ant1	470 -694	619.05	-76.35	NA	-54	Pass
NVNT	b	2412	Ant1	694 -1000	948.25	-65.98	NA	-36	Pass
NVNT	b	2412	Ant1	1000 -2360	2288.00	-47.34	NA	-30	Pass
NVNT	b	2412	Ant1	2523.5 -12750	6823.00	-40.30	NA	-30	Pass
NVNT	b	2442	Ant1	30 -47	43.80	-79.66	NA	-36	Pass
NVNT	b	2442	Ant1	47 -74	70.90	-80.13	NA	-54	Pass
NVNT	b	2442	Ant1	74 -87.5	75.20	-80.38	NA	-36	Pass
NVNT	b	2442	Ant1	87.5 -118	103.90	-80.59	NA	-54	Pass
NVNT	b	2442	Ant1	118 -174	165.85	-78.99	NA	-36	Pass
NVNT	b	2442	Ant1	174 -230	212.15	-79.10	NA	-54	Pass
NVNT	b	2442	Ant1	230 -470	447.00	-78.73	NA	-36	Pass
NVNT	b	2442	Ant1	470 -694	593.30	-78.62	NA	-54	Pass
NVNT	b	2442	Ant1	694 -1000	948.20	-72.33	NA	-36	Pass
NVNT	b	2442	Ant1	1000 -2360	1788.00	-56.76	NA	-30	Pass
NVNT	b	2442	Ant1	2523.5 -12750	4884.00	-43.68	NA	-30	Pass
NVNT	b	2472	Ant1	30 -47	45.75	-80.53	NA	-36	Pass
NVNT	b	2472	Ant1	47 -74	58.65	-80.21	NA	-54	Pass
NVNT	b	2472	Ant1	74 -87.5	75.00	-81.12	NA	-36	Pass
NVNT	b	2472	Ant1	87.5 -118	102.20	-80.53	NA	-54	Pass
NVNT	b	2472	Ant1	118 -174	145.40	-79.48	NA	-36	Pass
NVNT	b	2472	Ant1	174 -230	174.10	-79.49	NA	-54	Pass
NVNT	b	2472	Ant1	230 -470	441.15	-78.01	NA	-36	Pass
NVNT	b	2472	Ant1	470 -694	668.25	-78.11	NA	-54	Pass
NVNT	b	2472	Ant1	694 -1000	868.40	-65.37	NA	-36	Pass
NVNT	b	2472	Ant1	1000 -2360	2138.50	-57.25	NA	-30	Pass
NVNT	b	2472	Ant1	2523.5 -12750	6946.00	-49.79	NA	-30	Pass
NVNT	g	2412	Ant1	30 -47	40.70	-80.04	NA	-36	Pass
NVNT	g	2412	Ant1	47 -74	54.70	-80.67	NA	-54	Pass
NVNT	g	2412	Ant1	74 -87.5	82.65	-80.83	NA	-36	Pass
NVNT	g	2412	Ant1	87.5 -118	106.05	-80.91	NA	-54	Pass
NVNT	g	2412	Ant1	118 -174	172.65	-79.49	NA	-36	Pass
NVNT	g	2412	Ant1	174 -230	217.35	-79.06	NA	-54	Pass
NVNT	g	2412	Ant1	230 -470	263.10	-78.91	NA	-36	Pass
NVNT	g	2412	Ant1	470 -694	573.65	-78.26	NA	-54	Pass
NVNT	g	2412	Ant1	694 -1000	948.25	-68.51	NA	-36	Pass
NVNT	g	2412	Ant1	1000 -2360	1924.50	-46.86	NA	-30	Pass
NVNT	g	2412	Ant1	2523.5 -12750	6999.50	-40.71	NA	-30	Pass
NVNT	g	2442	Ant1	30 -47	44.25	-80.40	NA	-36	Pass
NVNT	g	2442	Ant1	47 -74	57.15	-80.74	NA	-54	Pass
NVNT	g	2442	Ant1	74 -87.5	83.65	-80.54	NA	-36	Pass
NVNT	g	2442	Ant1	87.5 -118	90.70	-80.35	NA	-54	Pass
NVNT	g	2442	Ant1	118 -174	171.55	-80.02	NA	-36	Pass
NVNT	g	2442	Ant1	174 -230	210.65	-79.60	NA	-54	Pass
NVNT	g	2442	Ant1	230 -470	263.65	-78.89	NA	-36	Pass
NVNT	g	2442	Ant1	470 -694	632.25	-78.51	NA	-54	Pass
NVNT	g	2442	Ant1	694 -1000	948.30	-69.30	NA	-36	Pass
NVNT	g	2442	Ant1	1000 -2360	1599.00	-47.44	NA	-30	Pass
NVNT	g	2442	Ant1	2523.5 -12750	6887.00	-40.43	NA	-30	Pass
NVNT	g	2472	Ant1	30 -47	31.90	-79.99	NA	-36	Pass
NVNT	g	2472	Ant1	47 -74	48.65	-80.72	NA	-54	Pass
NVNT	g	2472	Ant1	74 -87.5	80.80	-80.94	NA	-36	Pass
NVNT	g	2472	Ant1	87.5 -118	103.65	-80.24	NA	-54	Pass
NVNT	g	2472	Ant1	118 -174	155.30	-79.94	NA	-36	Pass
NVNT	g	2472	Ant1	174 -230	200.75	-79.45	NA	-54	Pass
NVNT	g	2472	Ant1	230 -470	459.85	-78.79	NA	-36	Pass
NVNT	g	2472	Ant1	470 -694	568.80	-78.62	NA	-54	Pass
NVNT	g	2472	Ant1	694 -1000	948.75	-72.91	NA	-36	Pass
NVNT	g	2472	Ant1	1000 -2360	2168.50	-47.22	NA	-30	Pass
NVNT	g	2472	Ant1	2523.5	6996.50	-40.94	NA	-30	Pass

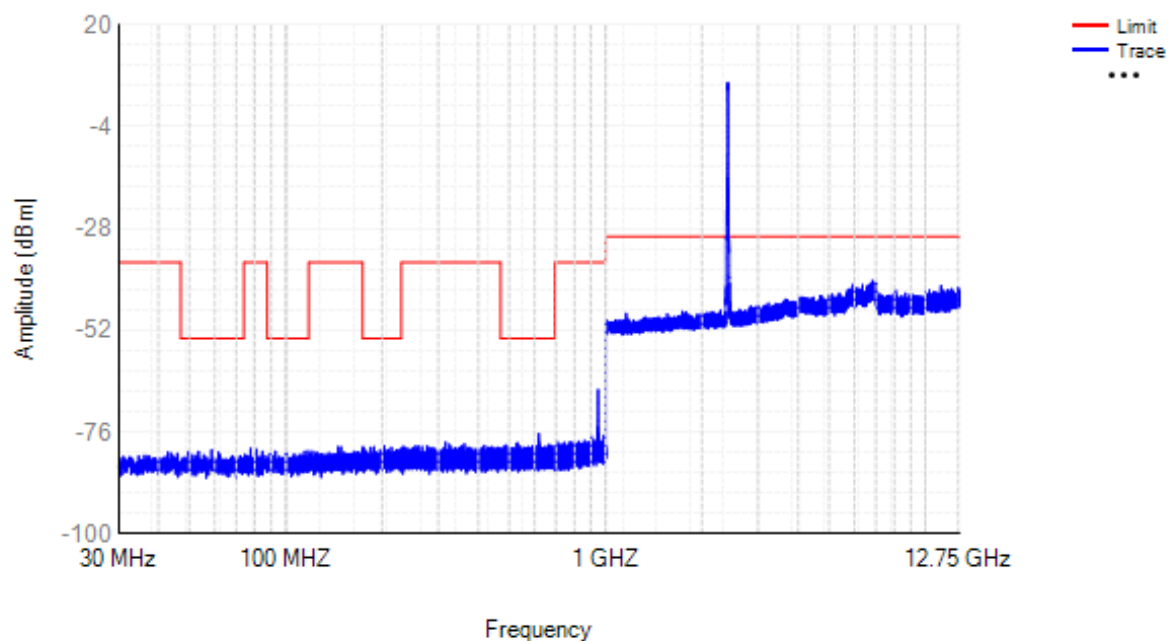
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NVNT	n20	2412	Ant1	74 -87.5	87.10	-80.92	NA	-36	Pass
NVNT	n20	2412	Ant1	87.5 -118	93.70	-79.99	NA	-54	Pass
NVNT	n20	2412	Ant1	118 -174	143.65	-80.11	NA	-36	Pass
NVNT	n20	2412	Ant1	174 -230	210.65	-79.46	NA	-54	Pass
NVNT	n20	2412	Ant1	230 -470	359.20	-78.34	NA	-36	Pass
NVNT	n20	2412	Ant1	470 -694	547.20	-78.86	NA	-54	Pass
NVNT	n20	2412	Ant1	694 -1000	948.80	-73.15	NA	-36	Pass
NVNT	n20	2412	Ant1	1000 -2360	2081.50	-47.21	NA	-30	Pass
NVNT	n20	2412	Ant1	2523.5 -12750	6957.00	-40.61	NA	-30	Pass
NVNT	n20	2442	Ant1	30 -47	33.95	-80.70	NA	-36	Pass
NVNT	n20	2442	Ant1	47 -74	55.95	-80.45	NA	-54	Pass
NVNT	n20	2442	Ant1	74 -87.5	78.45	-81.45	NA	-36	Pass
NVNT	n20	2442	Ant1	87.5 -118	116.25	-79.85	NA	-54	Pass
NVNT	n20	2442	Ant1	118 -174	155.10	-79.49	NA	-36	Pass
NVNT	n20	2442	Ant1	174 -230	209.90	-78.88	NA	-54	Pass
NVNT	n20	2442	Ant1	230 -470	362.95	-79.04	NA	-36	Pass
NVNT	n20	2442	Ant1	470 -694	657.25	-78.06	NA	-54	Pass
NVNT	n20	2442	Ant1	694 -1000	948.20	-67.66	NA	-36	Pass
NVNT	n20	2442	Ant1	1000 -2360	2153.00	-47.70	NA	-30	Pass
NVNT	n20	2442	Ant1	2523.5 -12750	6948.00	-40.51	NA	-30	Pass
NVNT	n20	2472	Ant1	30 -47	31.50	-80.09	NA	-36	Pass
NVNT	n20	2472	Ant1	47 -74	48.40	-81.16	NA	-54	Pass
NVNT	n20	2472	Ant1	74 -87.5	77.15	-80.71	NA	-36	Pass
NVNT	n20	2472	Ant1	87.5 -118	100.45	-80.16	NA	-54	Pass
NVNT	n20	2472	Ant1	118 -174	122.55	-79.64	NA	-36	Pass
NVNT	n20	2472	Ant1	174 -230	203.10	-79.56	NA	-54	Pass
NVNT	n20	2472	Ant1	230 -470	419.65	-78.30	NA	-36	Pass
NVNT	n20	2472	Ant1	470 -694	573.60	-78.11	NA	-54	Pass
NVNT	n20	2472	Ant1	694 -1000	948.75	-74.45	NA	-36	Pass
NVNT	n20	2472	Ant1	1000 -2360	1761.00	-47.17	NA	-30	Pass
NVNT	n20	2472	Ant1	2523.5 -12750	6942.00	-40.67	NA	-30	Pass
NVNT	n40	2422	Ant1	30 -47	31.25	-78.92	NA	-36	Pass
NVNT	n40	2422	Ant1	47 -74	64.90	-80.04	NA	-54	Pass
NVNT	n40	2422	Ant1	74 -87.5	76.05	-80.16	NA	-36	Pass
NVNT	n40	2422	Ant1	87.5 -118	88.55	-80.53	NA	-54	Pass
NVNT	n40	2422	Ant1	118 -174	163.35	-79.56	NA	-36	Pass
NVNT	n40	2422	Ant1	174 -230	182.10	-78.31	NA	-54	Pass
NVNT	n40	2422	Ant1	230 -470	362.50	-78.51	NA	-36	Pass
NVNT	n40	2422	Ant1	470 -694	484.55	-78.16	NA	-54	Pass
NVNT	n40	2422	Ant1	694 -1000	948.20	-73.95	NA	-36	Pass
NVNT	n40	2422	Ant1	1000 -2320	2142.50	-47.47	NA	-30	Pass
NVNT	n40	2422	Ant1	2563.5 -12750	6944.00	-40.45	NA	-30	Pass
NVNT	n40	2442	Ant1	30 -47	30.15	-79.42	NA	-36	Pass
NVNT	n40	2442	Ant1	47 -74	54.55	-80.99	NA	-54	Pass
NVNT	n40	2442	Ant1	74 -87.5	78.75	-79.84	NA	-36	Pass
NVNT	n40	2442	Ant1	87.5 -118	100.75	-80.75	NA	-54	Pass
NVNT	n40	2442	Ant1	118 -174	151.60	-79.75	NA	-36	Pass
NVNT	n40	2442	Ant1	174 -230	209.95	-78.76	NA	-54	Pass
NVNT	n40	2442	Ant1	230 -470	250.90	-78.56	NA	-36	Pass
NVNT	n40	2442	Ant1	470 -694	663.85	-78.62	NA	-54	Pass
NVNT	n40	2442	Ant1	694 -1000	948.90	-74.20	NA	-36	Pass
NVNT	n40	2442	Ant1	1000 -2320	2127.00	-47.32	NA	-30	Pass
NVNT	n40	2442	Ant1	2563.5 -12750	6949.50	-40.32	NA	-30	Pass
NVNT	n40	2462	Ant1	30 -47	42.05	-80.26	NA	-36	Pass
NVNT	n40	2462	Ant1	47 -74	68.65	-80.97	NA	-54	Pass
NVNT	n40	2462	Ant1	74 -87.5	82.15	-80.54	NA	-36	Pass
NVNT	n40	2462	Ant1	87.5 -118	107.10	-80.17	NA	-54	Pass
NVNT	n40	2462	Ant1	118 -174	148.00	-79.44	NA	-36	Pass
NVNT	n40	2462	Ant1	174 -230	189.95	-79.67	NA	-54	Pass
NVNT	n40	2462	Ant1	230 -470	321.35	-78.80	NA	-36	Pass
NVNT	n40	2462	Ant1	470 -694	505.45	-77.85	NA	-54	Pass
NVNT	n40	2462	Ant1	694 -1000	948.20	-65.87	NA	-36	Pass
NVNT	n40	2462	Ant1	1000 -2320	2110.50	-47.47	NA	-30	Pass
NVNT	n40	2462	Ant1	2563.5 -12750	5182.00	-40.12	NA	-30	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1

Frequency: 2412 MHz

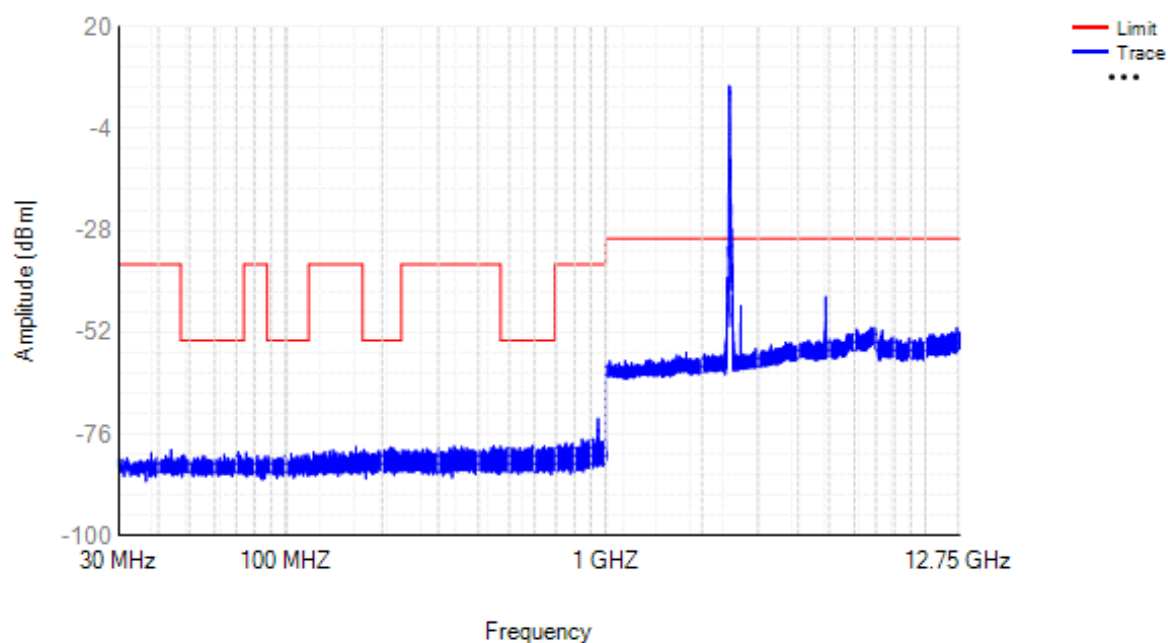
Transmitter unwanted emissions in the spurious domain



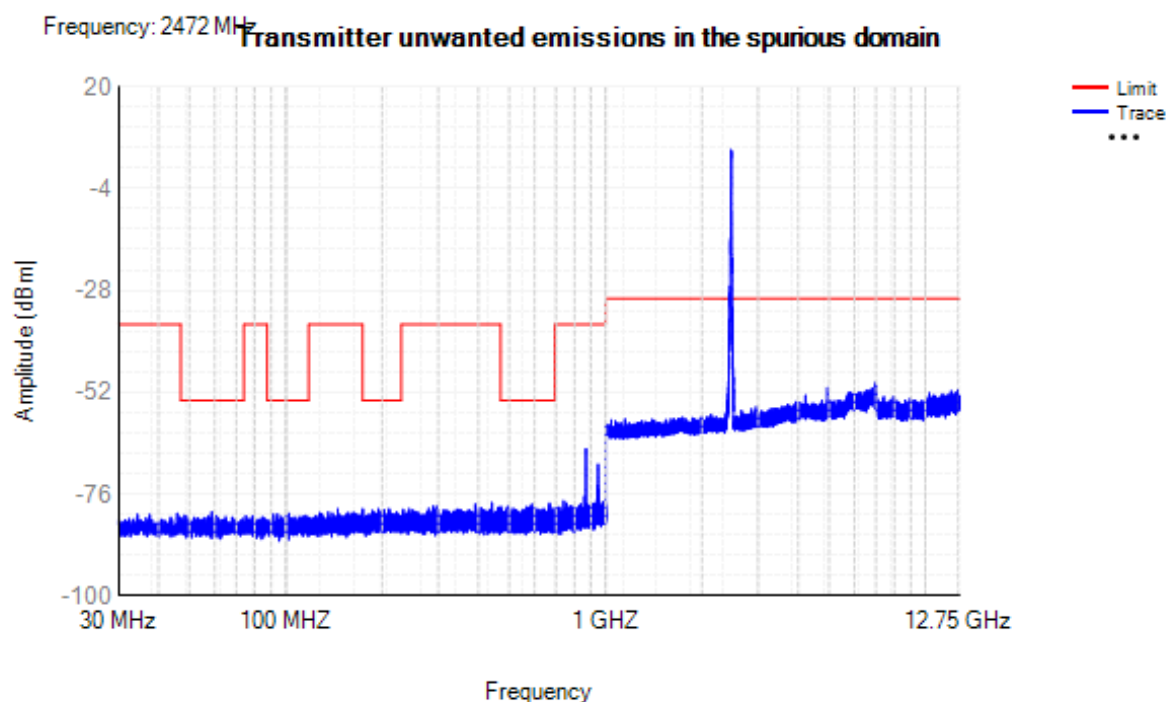
Tx. Spurious NVNT b 2442MHz Ant1

Frequency: 2442 MHz

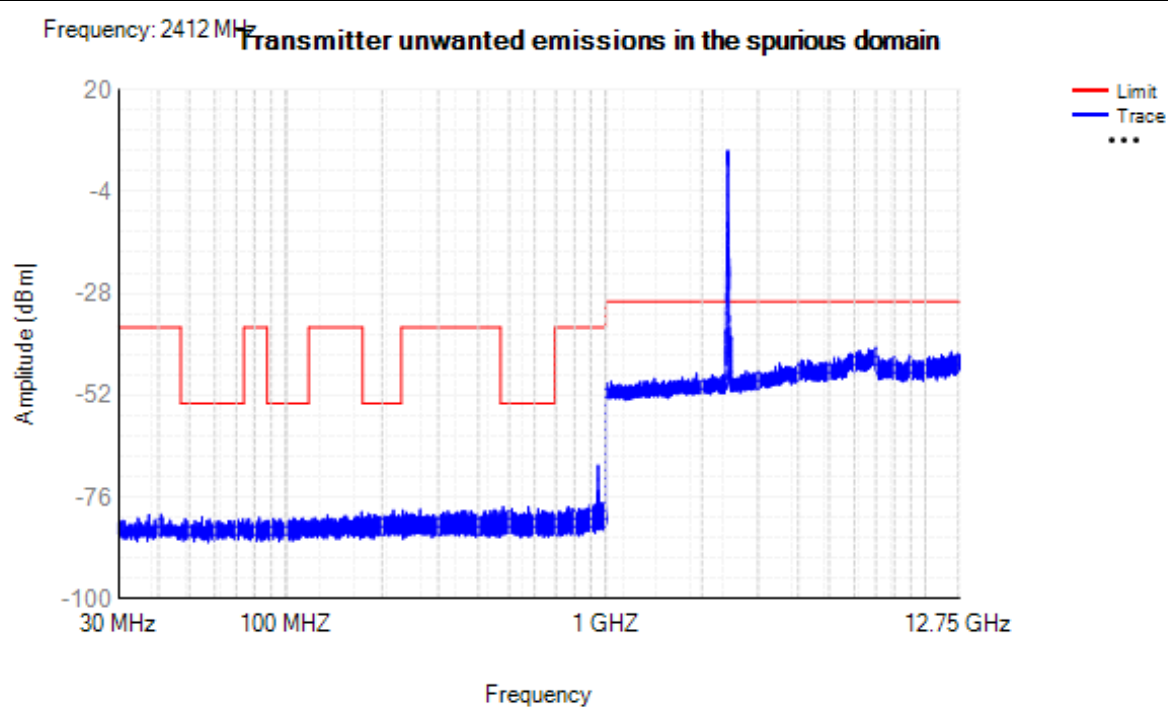
Transmitter unwanted emissions in the spurious domain



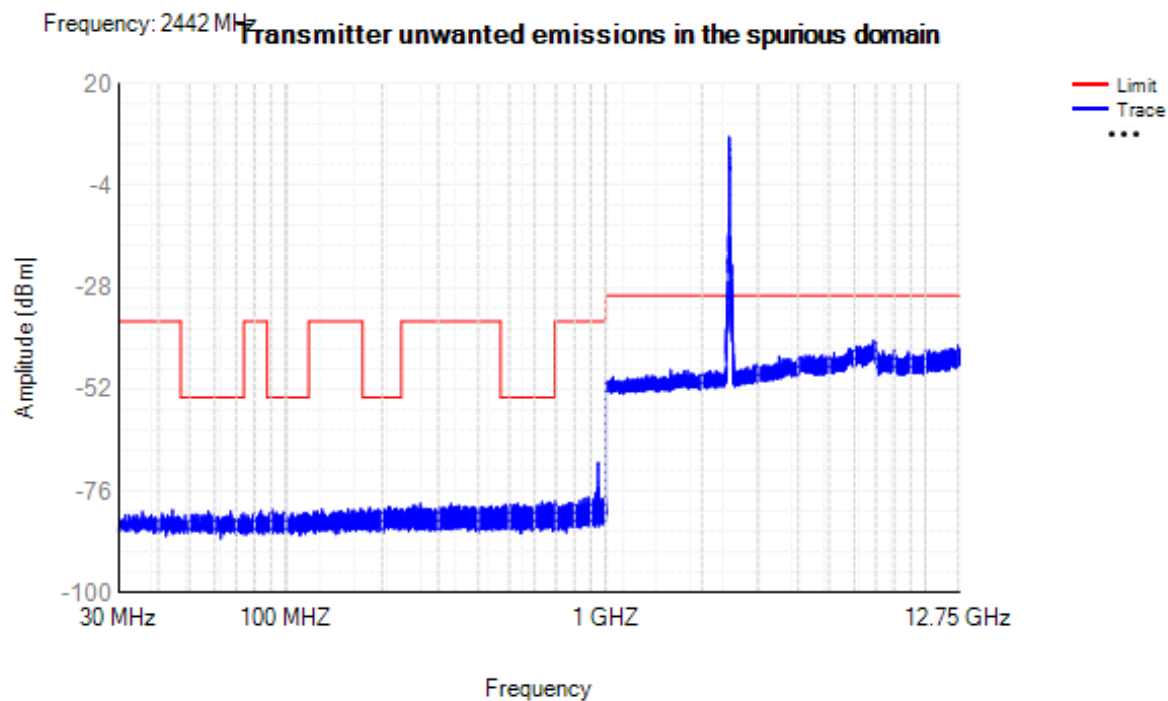
Tx. Spurious NVNT b 2472MHz Ant1



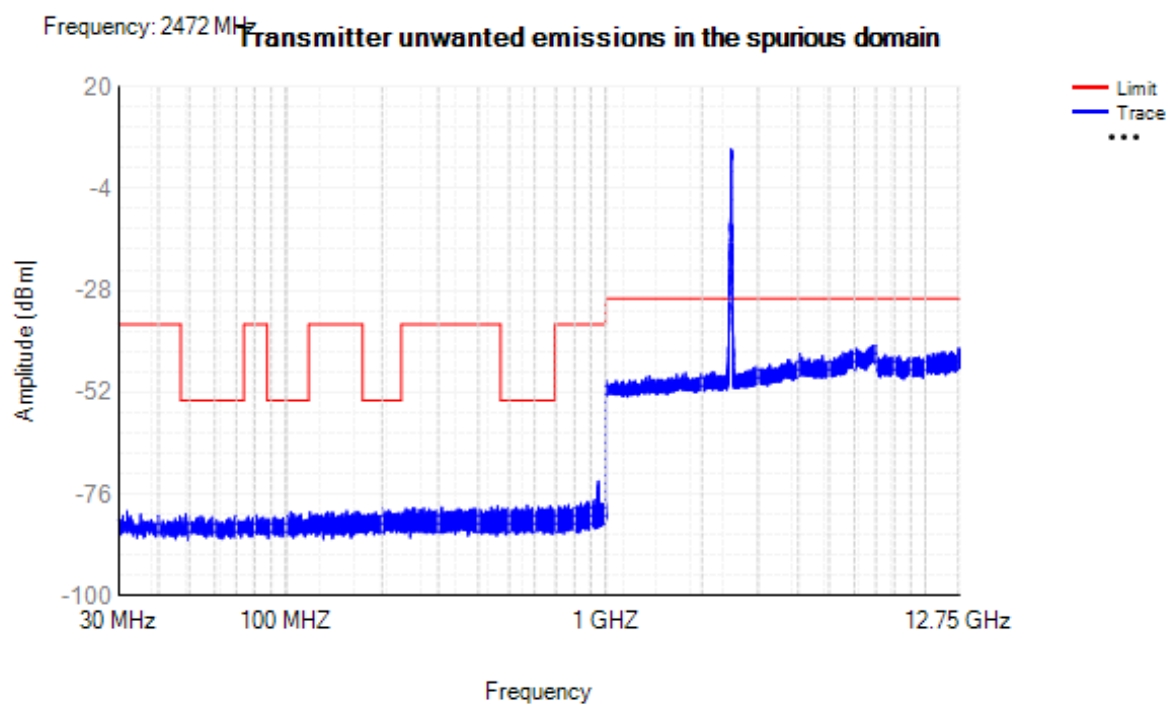
Tx. Spurious NVNT g 2412MHz Ant1



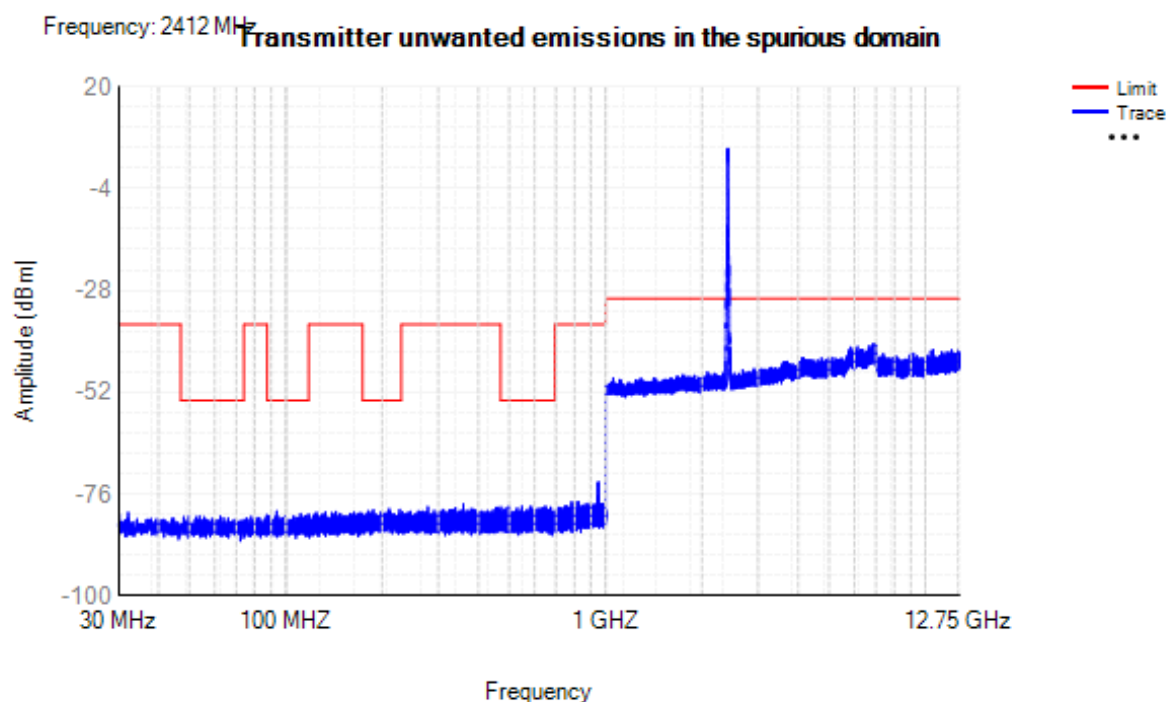
Tx. Spurious NVNT g 2442MHz Ant1



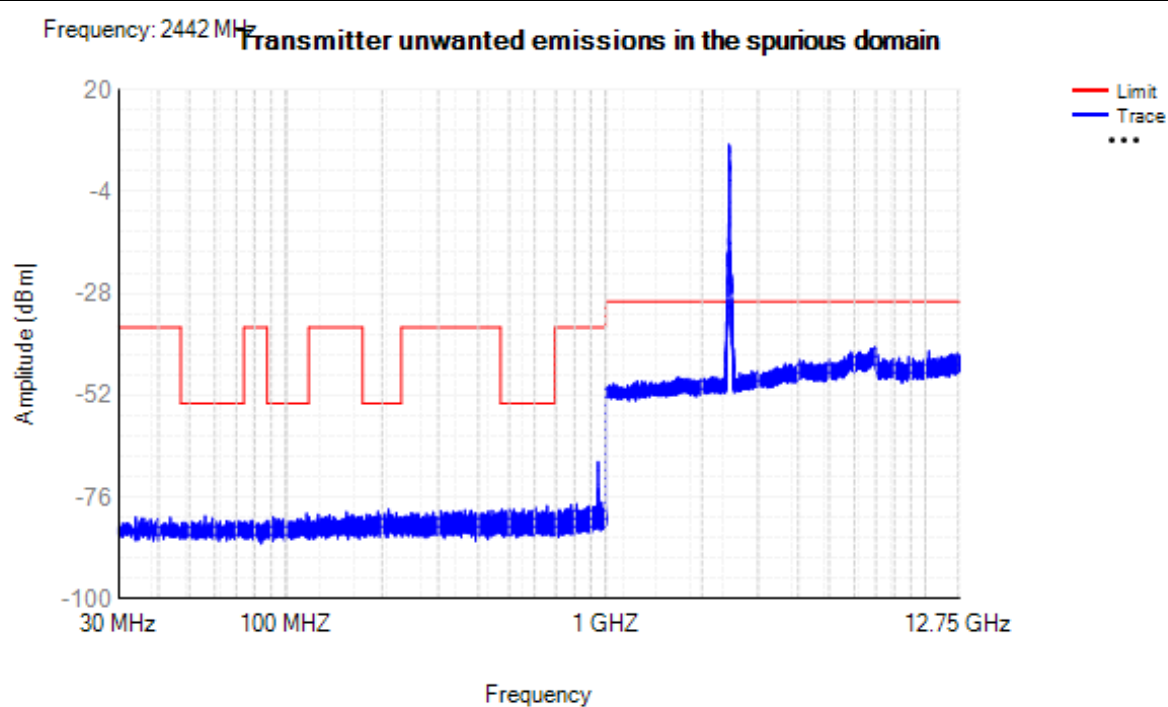
Tx. Spurious NVNT g 2472MHz Ant1



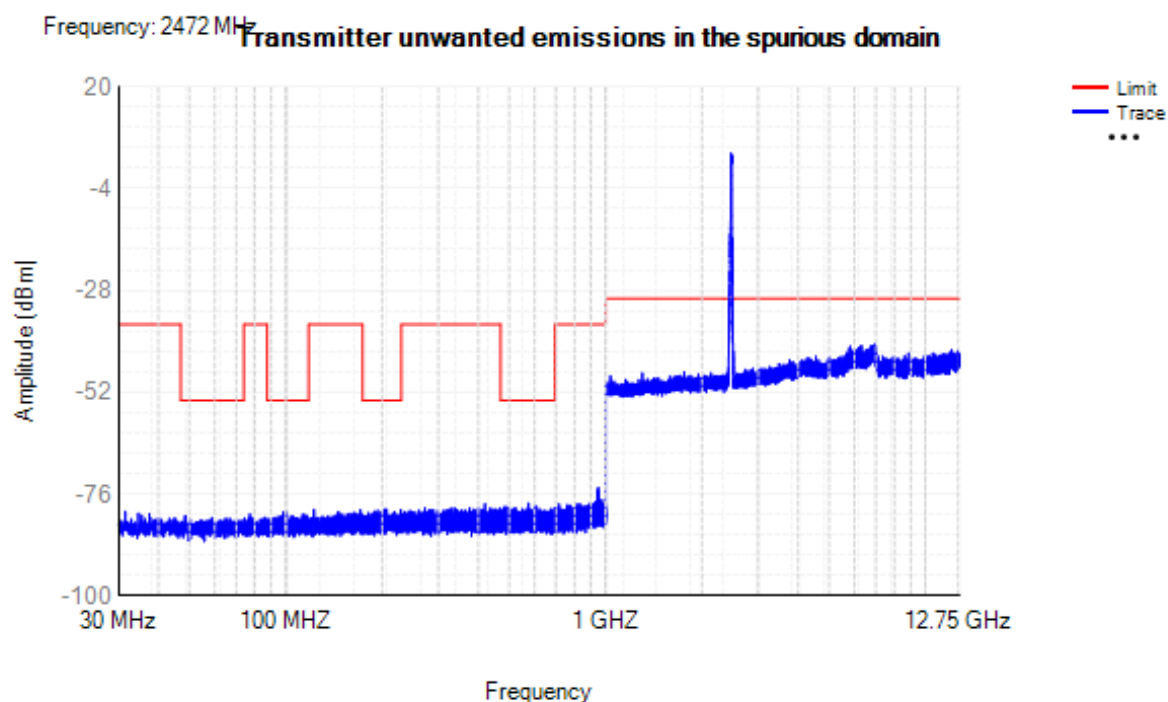
Tx. Spurious NVNT n20 2412MHz Ant1



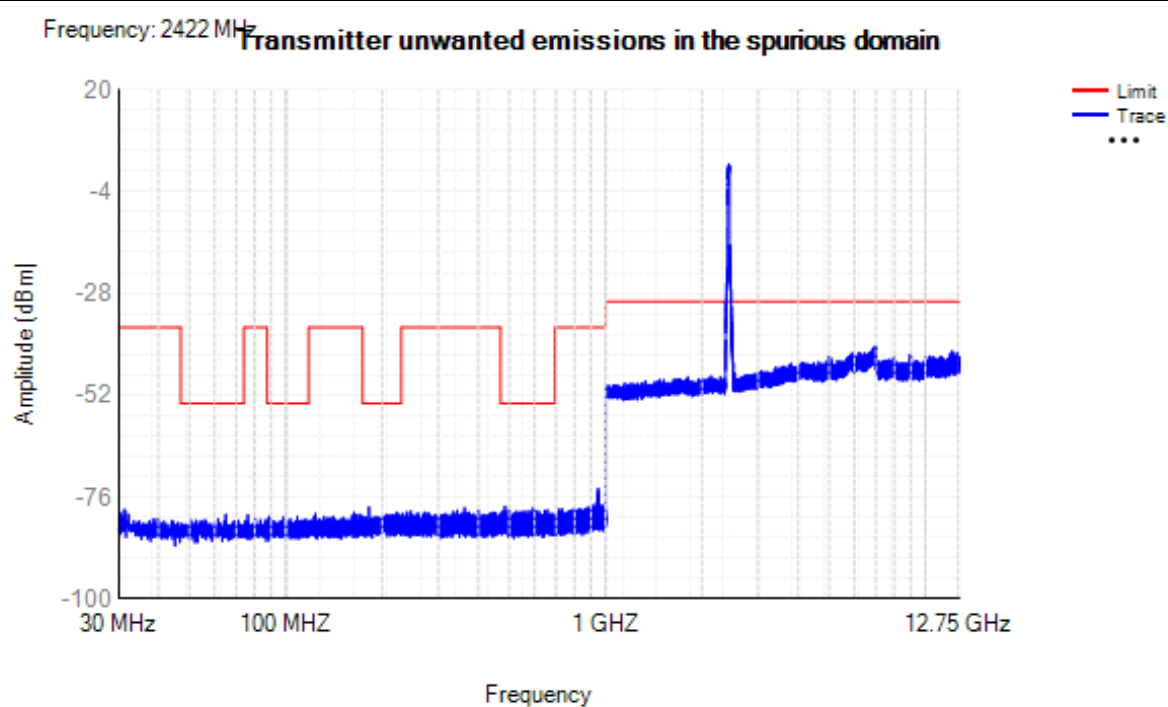
Tx. Spurious NVNT n20 2442MHz Ant1



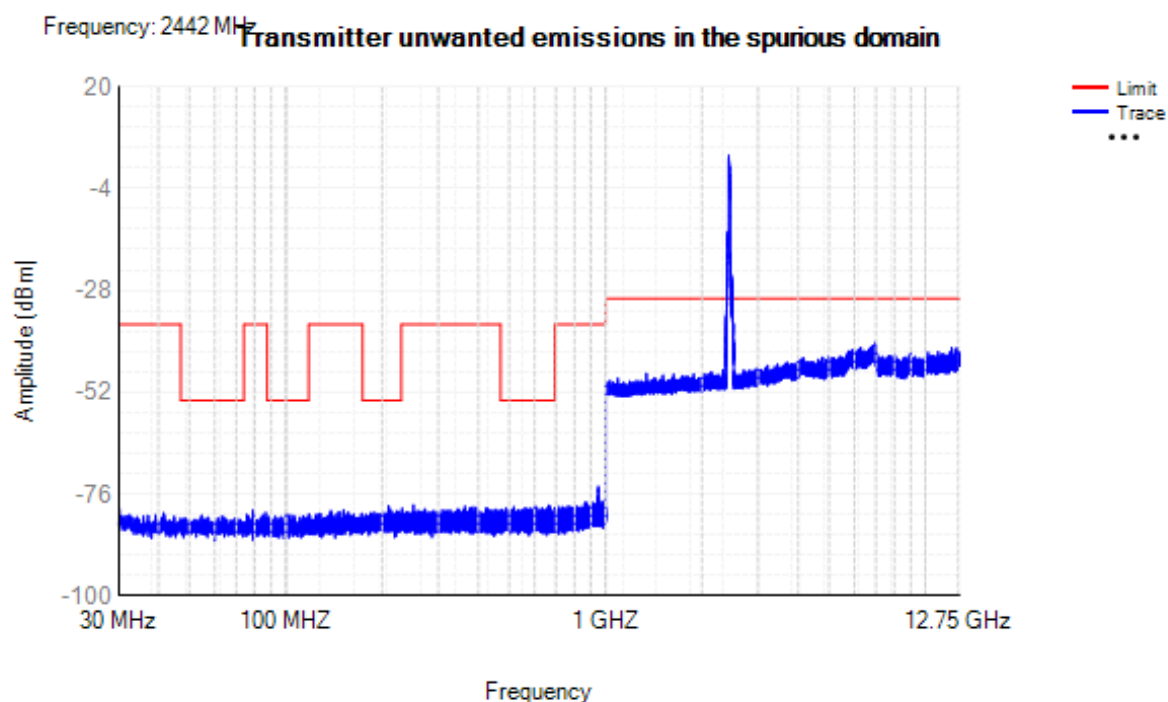
Tx. Spurious NVNT n20 2472MHz Ant1



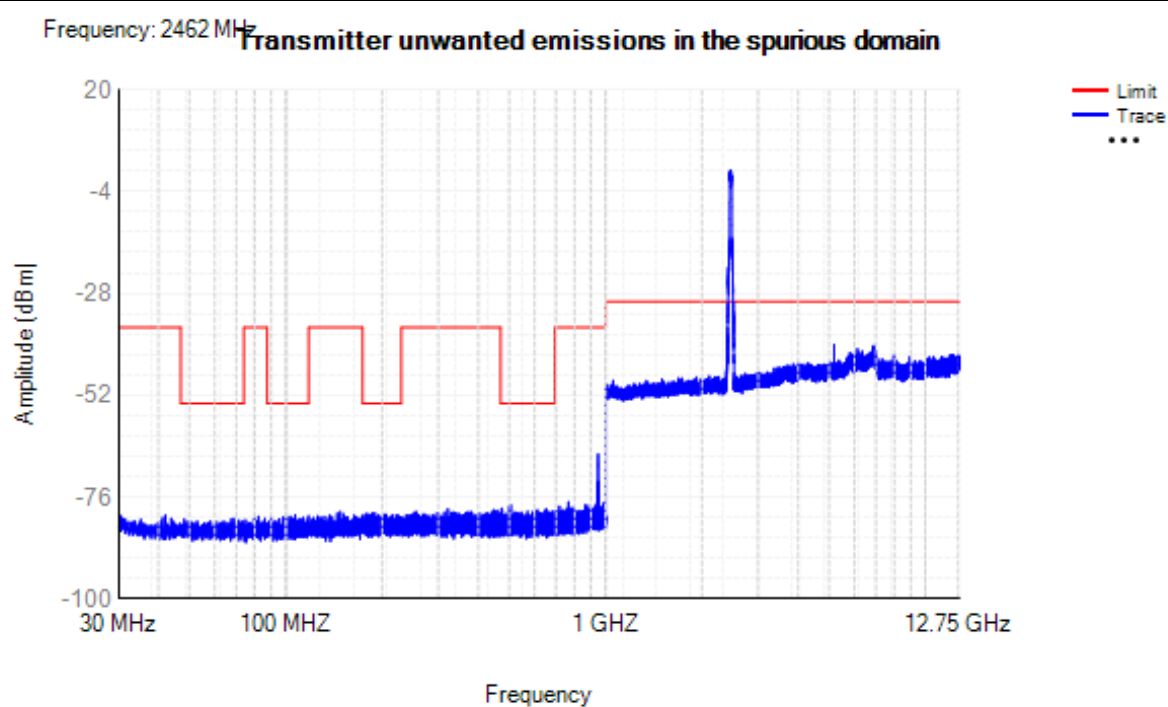
Tx. Spurious NVNT n40 2422MHz Ant1



Tx. Spurious NVNT n40 2442MHz Ant1



Tx. Spurious NVNT n40 2462MHz Ant1

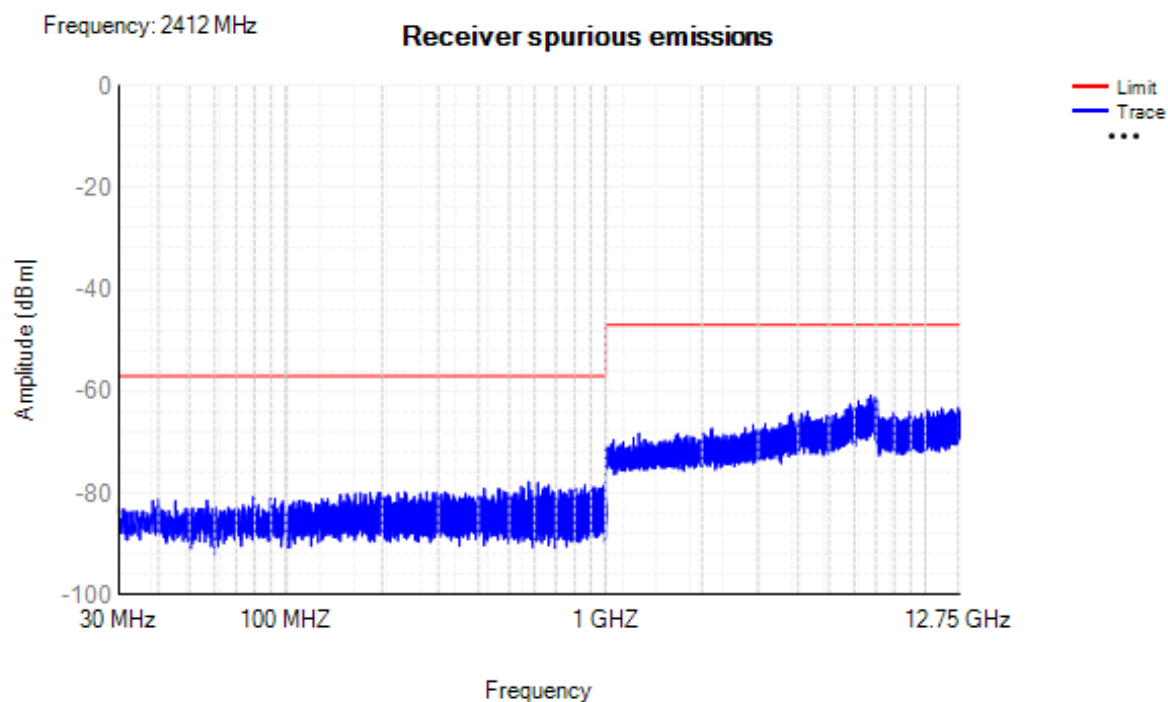


4.6 Receiver spurious emissions

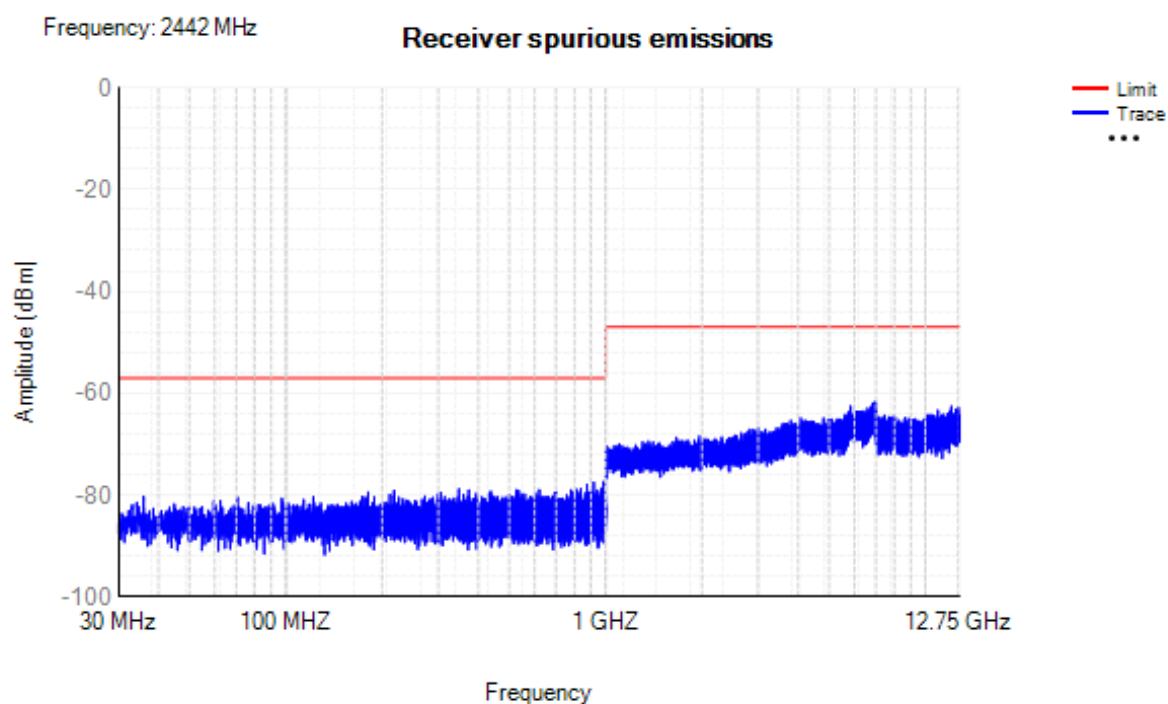
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	30 -1000	575.05	-77.77	NA	-57	Pass
NVNT	b	2412	Ant1	1000 -12750	6752	-60.82	NA	-47	Pass
NVNT	b	2442	Ant1	30 -1000	983.05	-77.35	NA	-57	Pass
NVNT	b	2442	Ant1	1000 -12750	6969	-61.65	NA	-47	Pass
NVNT	b	2472	Ant1	30 -1000	882.95	-77.34	NA	-57	Pass
NVNT	b	2472	Ant1	1000 -12750	6985.5	-61.53	NA	-47	Pass
NVNT	g	2412	Ant1	30 -1000	385.8	-77.99	NA	-57	Pass
NVNT	g	2412	Ant1	1000 -12750	6900.5	-61.06	NA	-47	Pass
NVNT	g	2442	Ant1	30 -1000	956.8	-77.65	NA	-57	Pass
NVNT	g	2442	Ant1	1000 -12750	6916	-62.05	NA	-47	Pass
NVNT	g	2472	Ant1	30 -1000	788.6	-78.10	NA	-57	Pass
NVNT	g	2472	Ant1	1000 -12750	6923	-60.49	NA	-47	Pass
NVNT	n20	2412	Ant1	30 -1000	997	-77.41	NA	-57	Pass
NVNT	n20	2412	Ant1	1000 -12750	6761.5	-61.61	NA	-47	Pass
NVNT	n20	2442	Ant1	30 -1000	879.4	-77.94	NA	-57	Pass
NVNT	n20	2442	Ant1	1000 -12750	6771.5	-61.68	NA	-47	Pass
NVNT	n20	2472	Ant1	30 -1000	991.5	-78.39	NA	-57	Pass
NVNT	n20	2472	Ant1	1000 -12750	2475.5	-59.00	NA	-47	Pass
NVNT	n40	2422	Ant1	30 -1000	913.85	-78.35	NA	-57	Pass
NVNT	n40	2422	Ant1	1000 -12750	6937.5	-61.24	NA	-47	Pass
NVNT	n40	2442	Ant1	30 -1000	909.5	-77.21	NA	-57	Pass
NVNT	n40	2442	Ant1	1000 -12750	6849	-60.95	NA	-47	Pass
NVNT	n40	2462	Ant1	30 -1000	901.95	-77.59	NA	-57	Pass
NVNT	n40	2462	Ant1	1000 -12750	2475.5	-58.45	NA	-47	Pass

Test Graphs

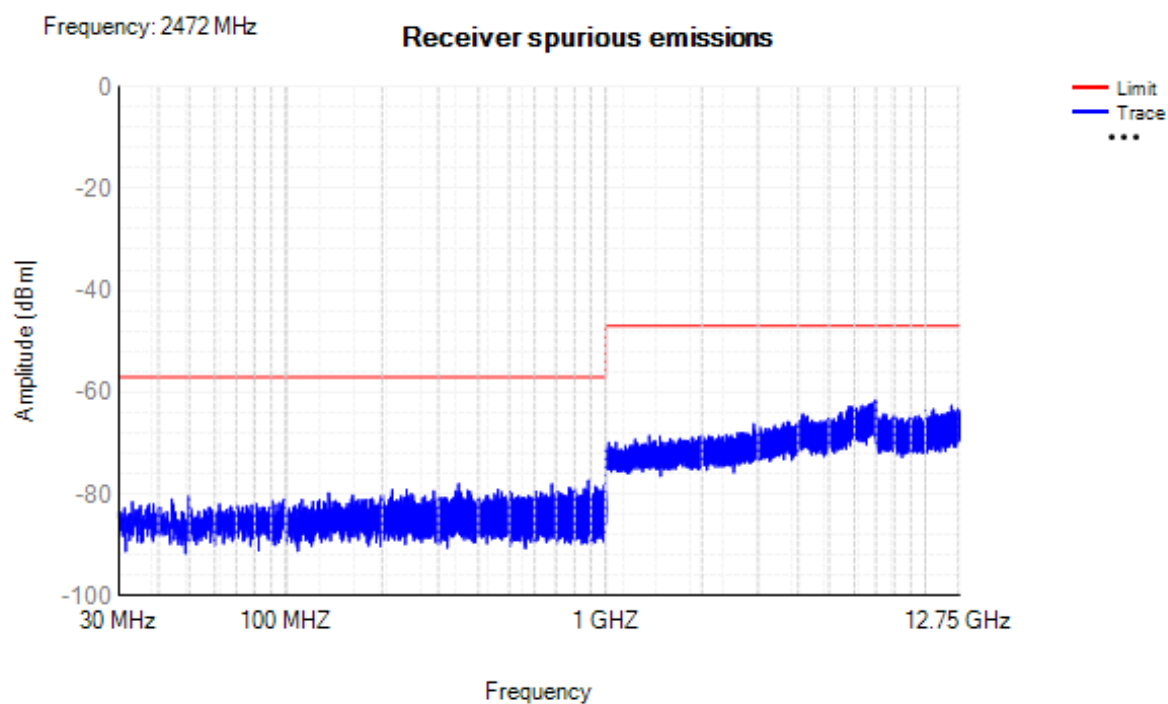
Rx. Spurious NVNT b 2412MHz Ant1



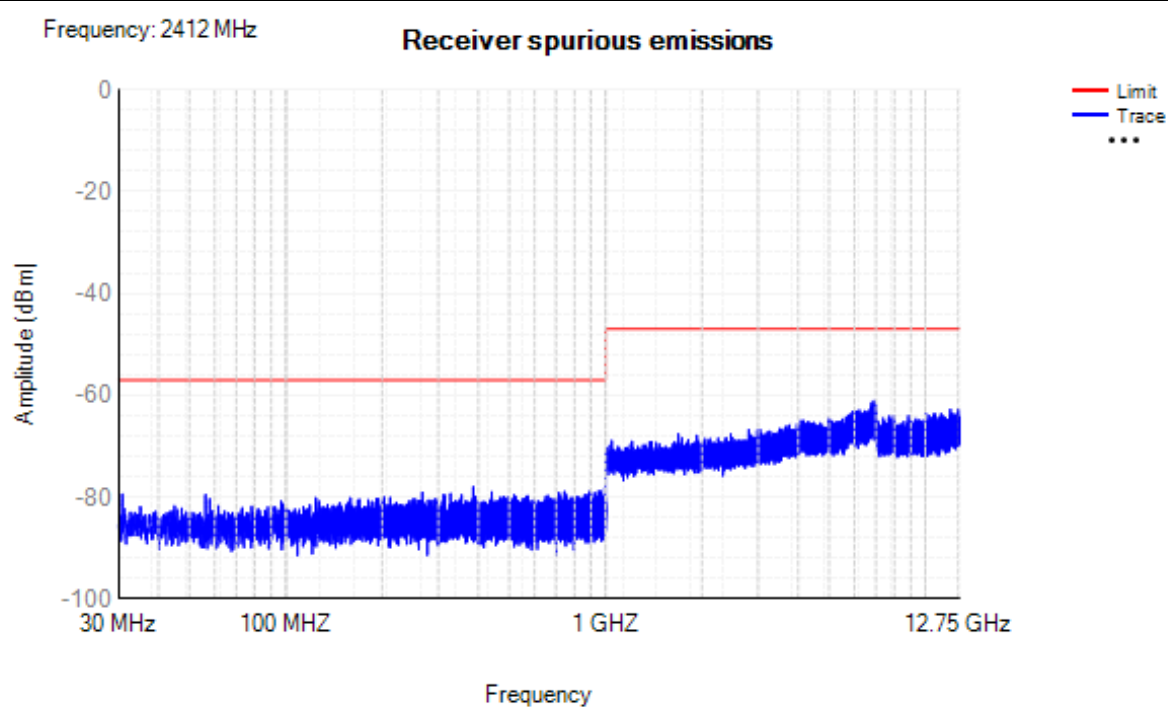
Rx. Spurious NVNT b 2442MHz Ant1



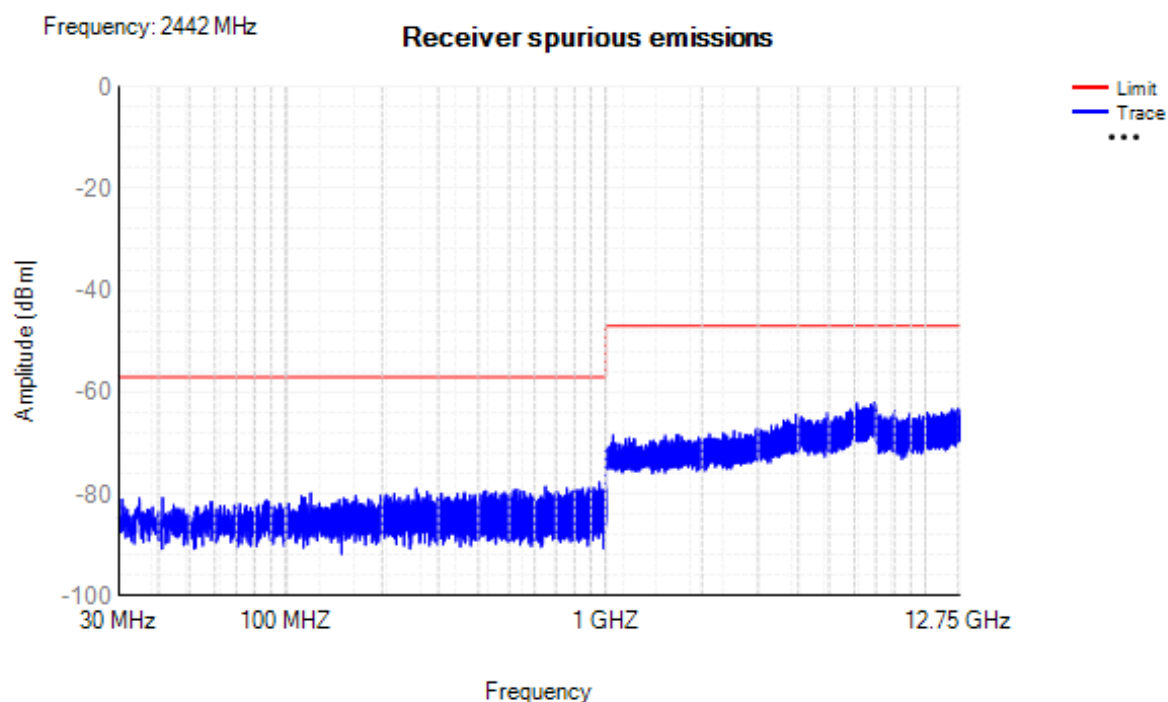
Rx. Spurious NVNT b 2472MHz Ant1



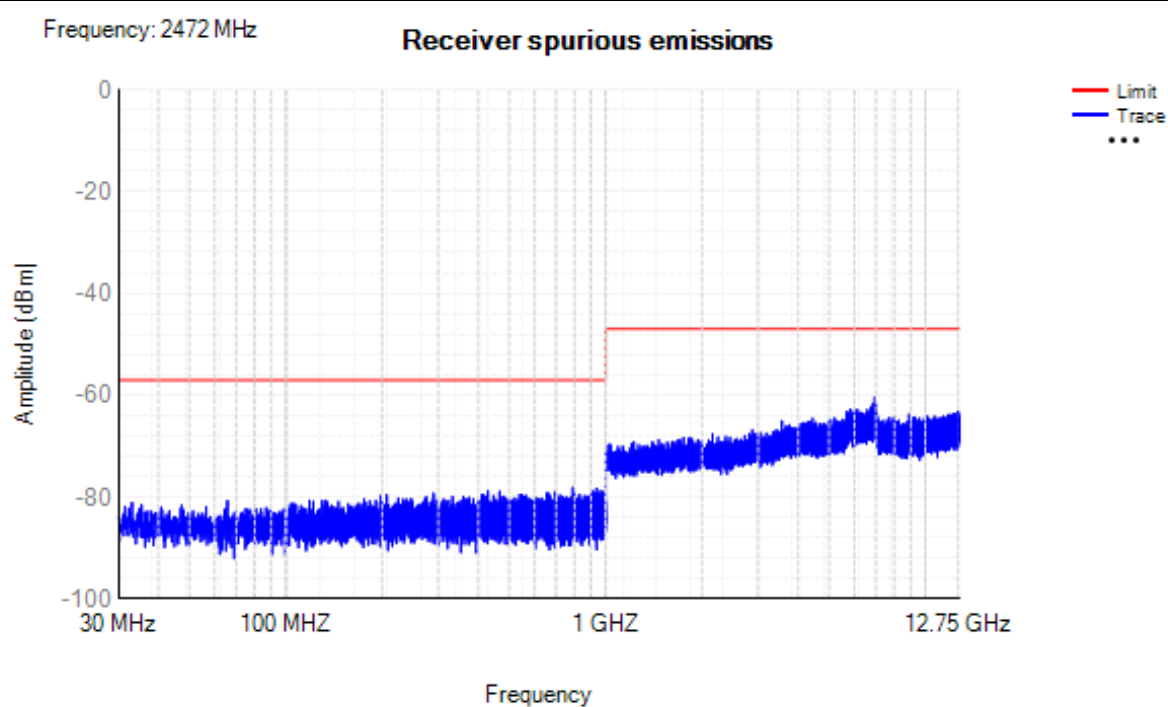
Rx. Spurious NVNT g 2412MHz Ant1



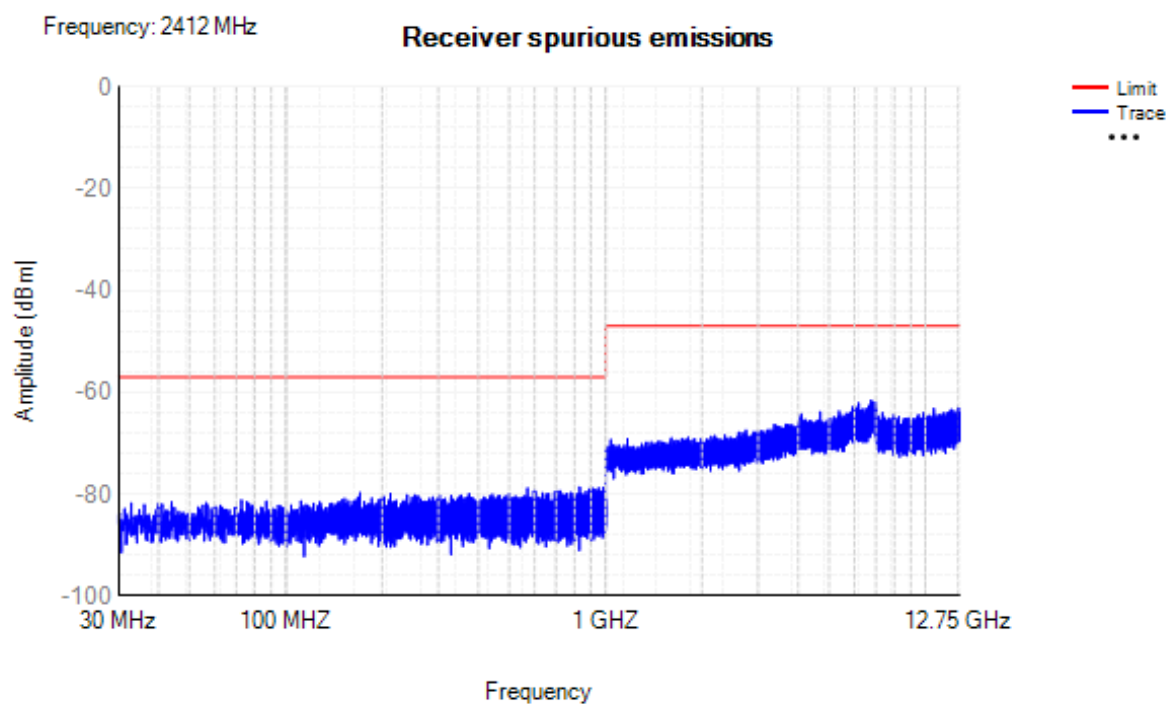
Rx. Spurious NVNT g 2442MHz Ant1



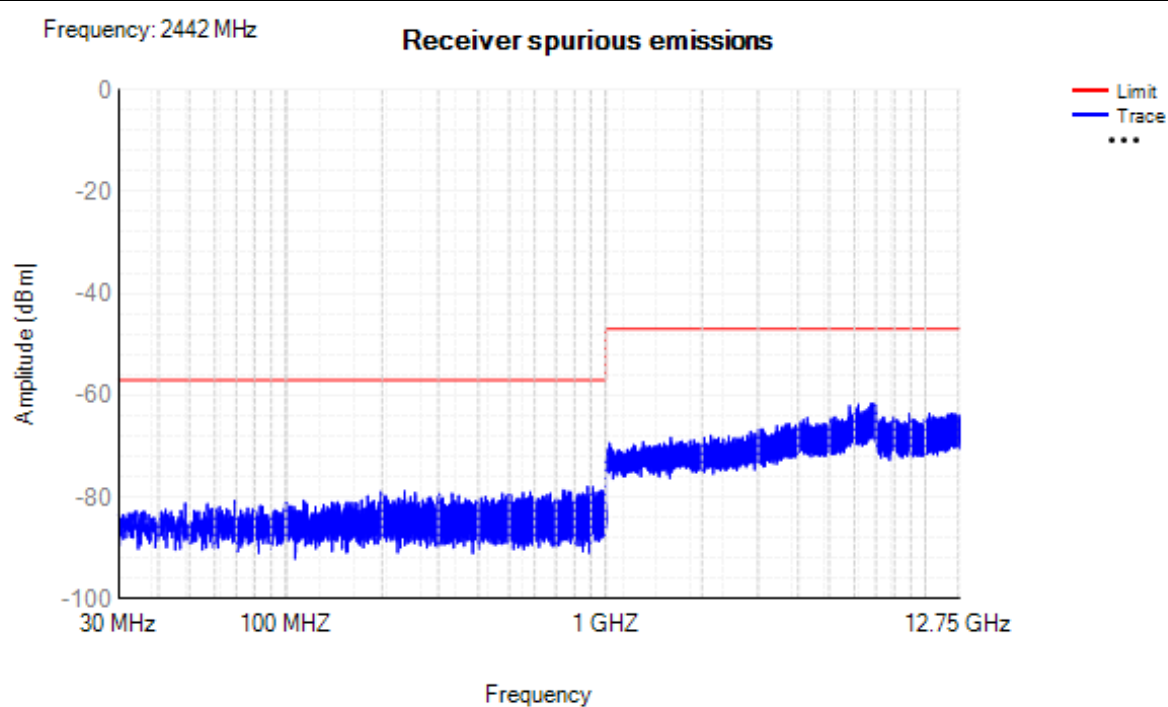
Rx. Spurious NVNT g 2472MHz Ant1



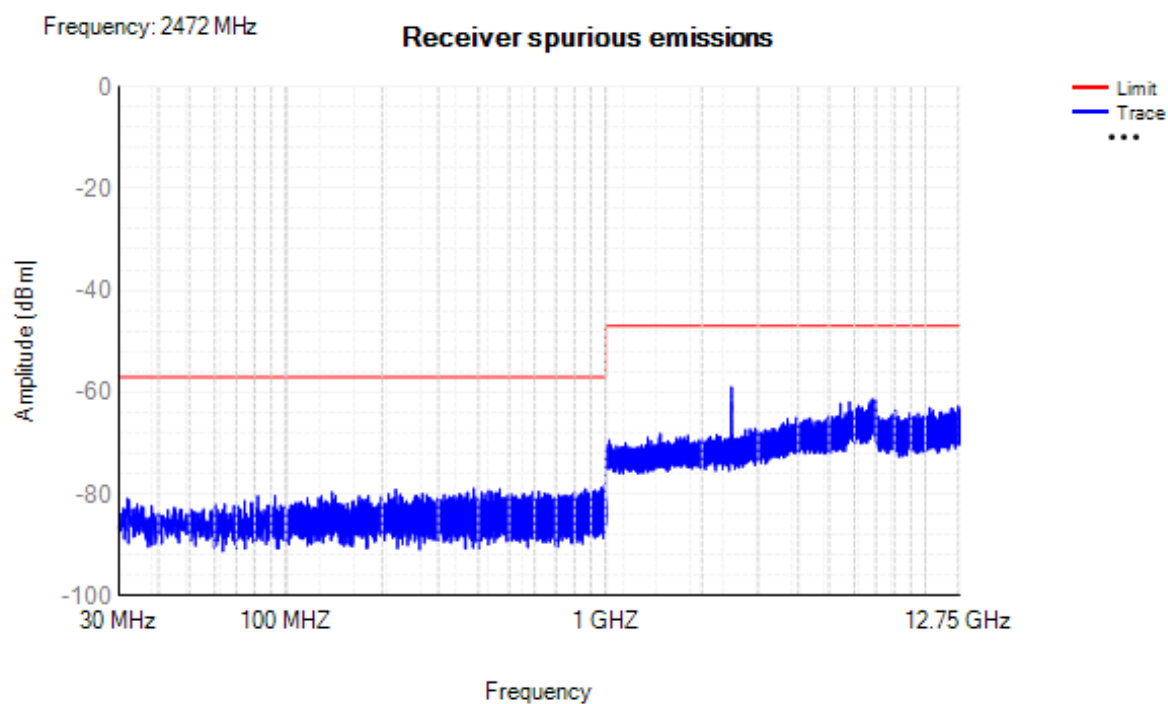
Rx. Spurious NVNT n20 2412MHz Ant1



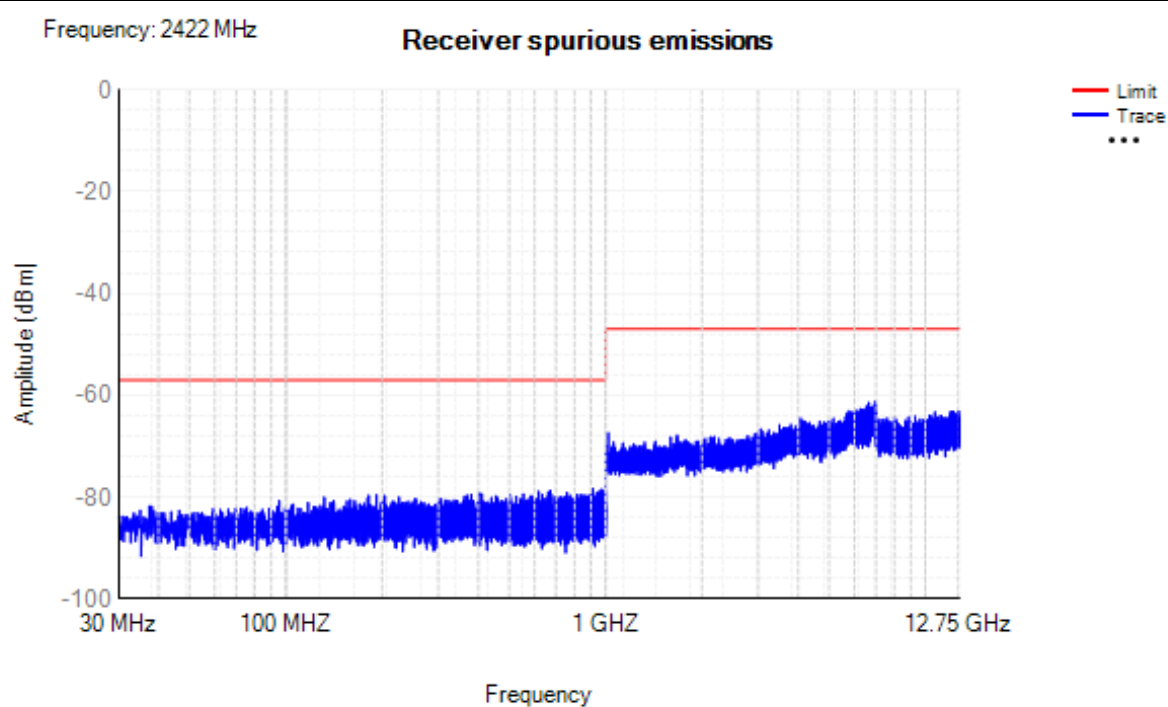
Rx. Spurious NVNT n20 2442MHz Ant1



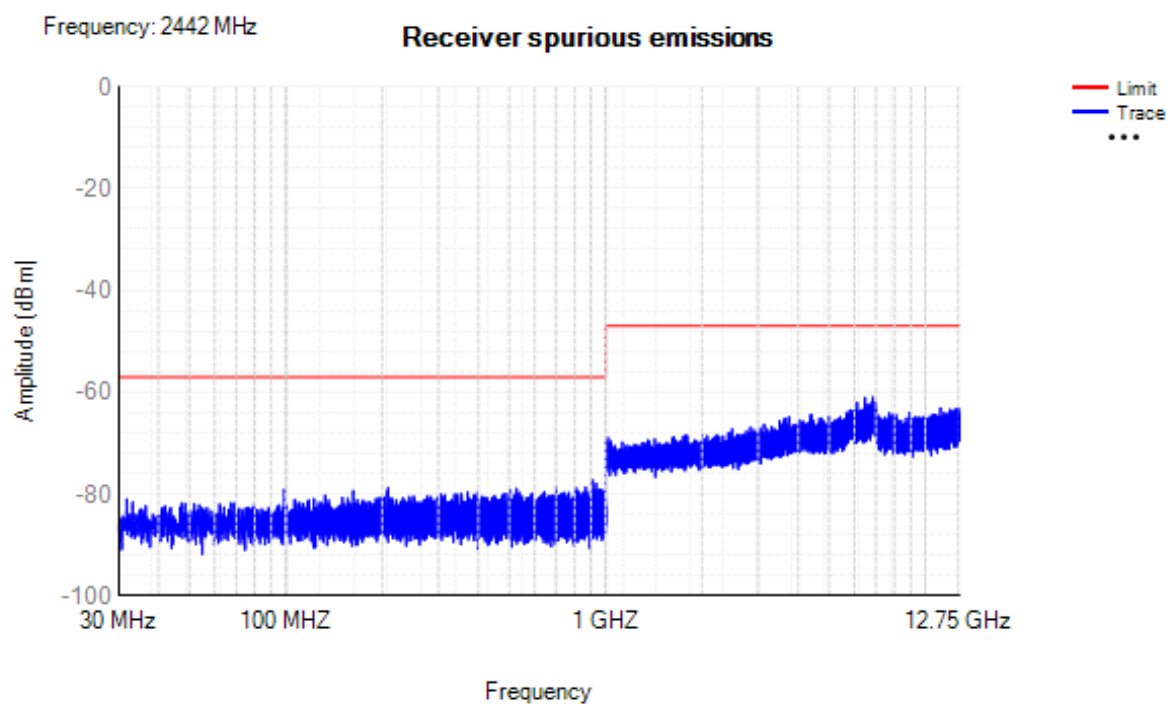
Rx. Spurious NVNT n20 2472MHz Ant1



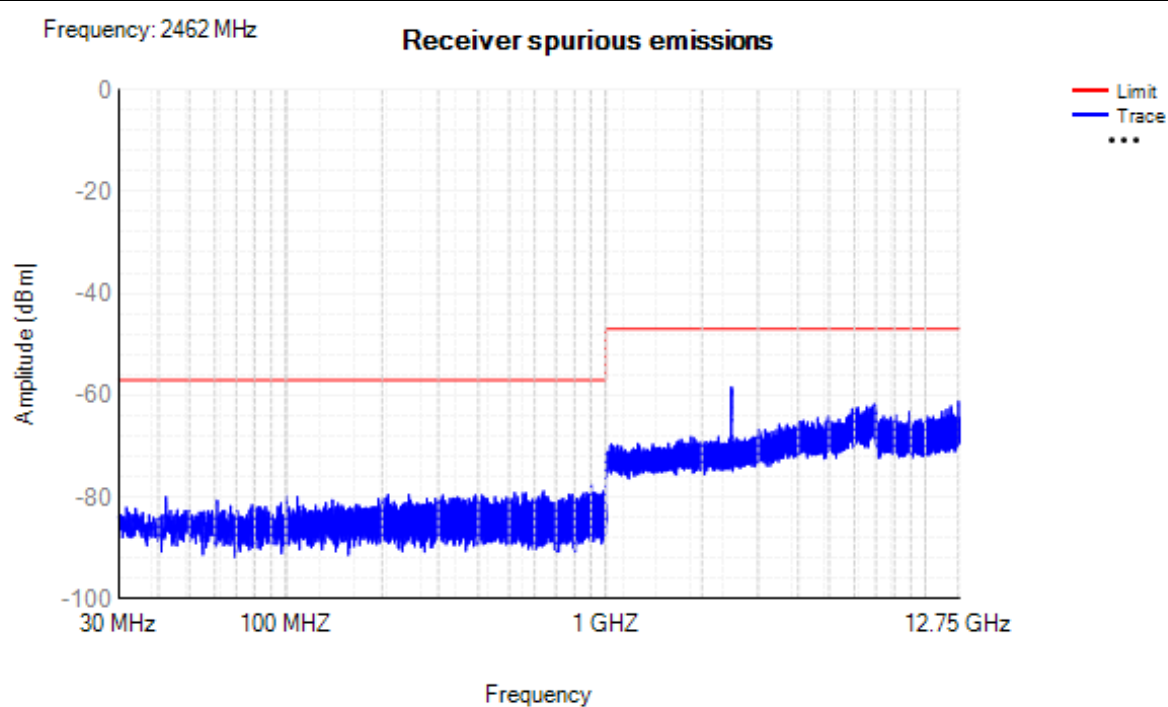
Rx. Spurious NVNT n40 2422MHz Ant1



Rx. Spurious NVNT n40 2442MHz Ant1



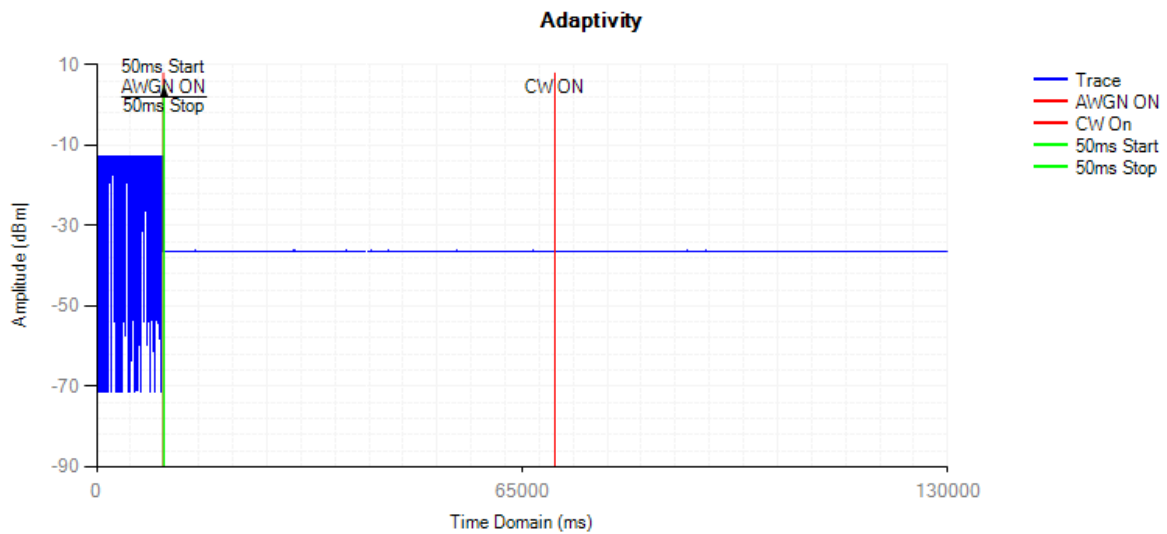
Rx. Spurious NVNT n40 2462MHz Ant1



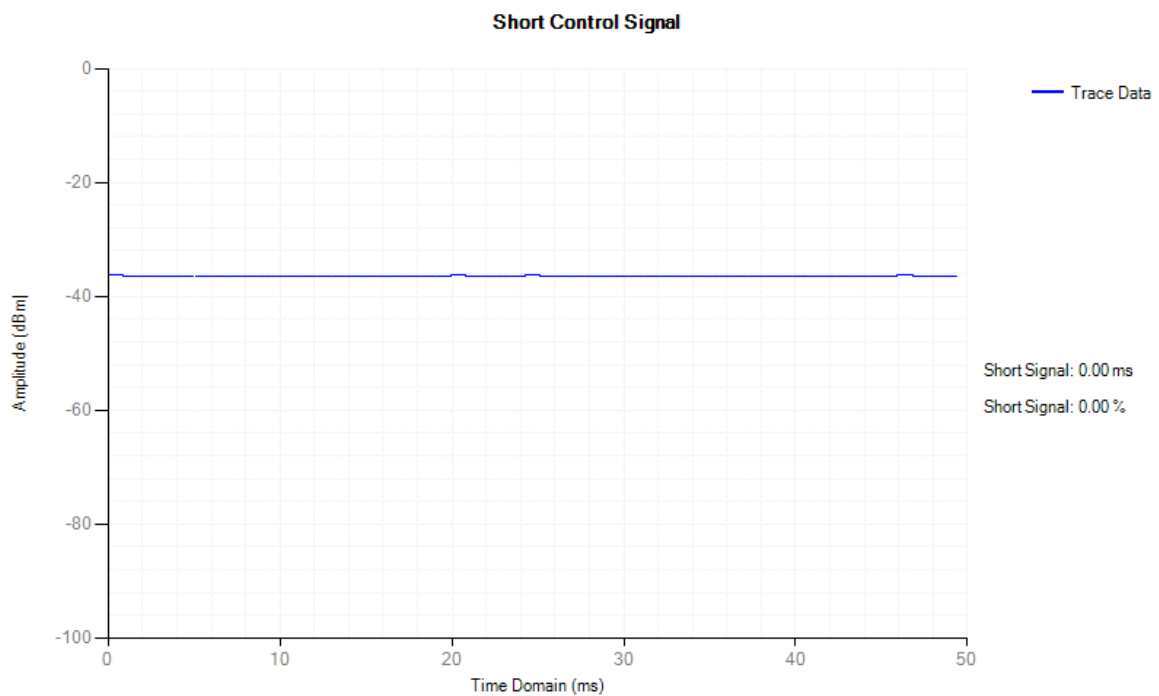
4.7 Adaptivity

Condition	Mode	Frequency (MHz)	AWGN Level (dBm/MHz)	CW Level (dBm)	Short Control Width (ms)	Short Control Ratio(%)	Limit (%)	Verdict
NVNT	802.11b	2412	-64.21	-35	0	0	<=10	Pass
NVNT	802.11b	2472	-63.2	-35	0	0	<=10	Pass
NVNT	802.11g	2412	-61.04	-35	0	0	<=10	Pass
NVNT	802.11g	2472	-61.24	-35	0	0	<=10	Pass
NVNT	802.11n(HT20)	2412	-60.97	-35	0	0	<=10	Pass
NVNT	802.11n(HT20)	2472	-60.14	-35	0	0	<=10	Pass
NVNT	802.11n(HT40)	2422	-60.07	-35	0.87	1.74	<=10	Pass
NVNT	802.11n(HT40)	2462	-59.47	-35	0.87	1.74	<=10	Pass

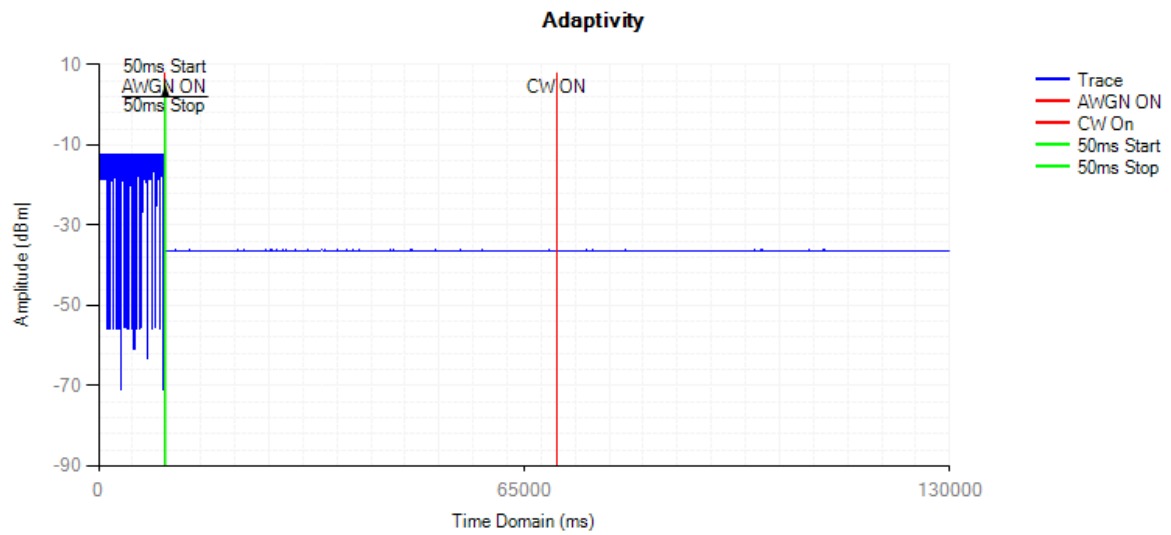
Adaptivity NVNT 802.11b 2412MHz



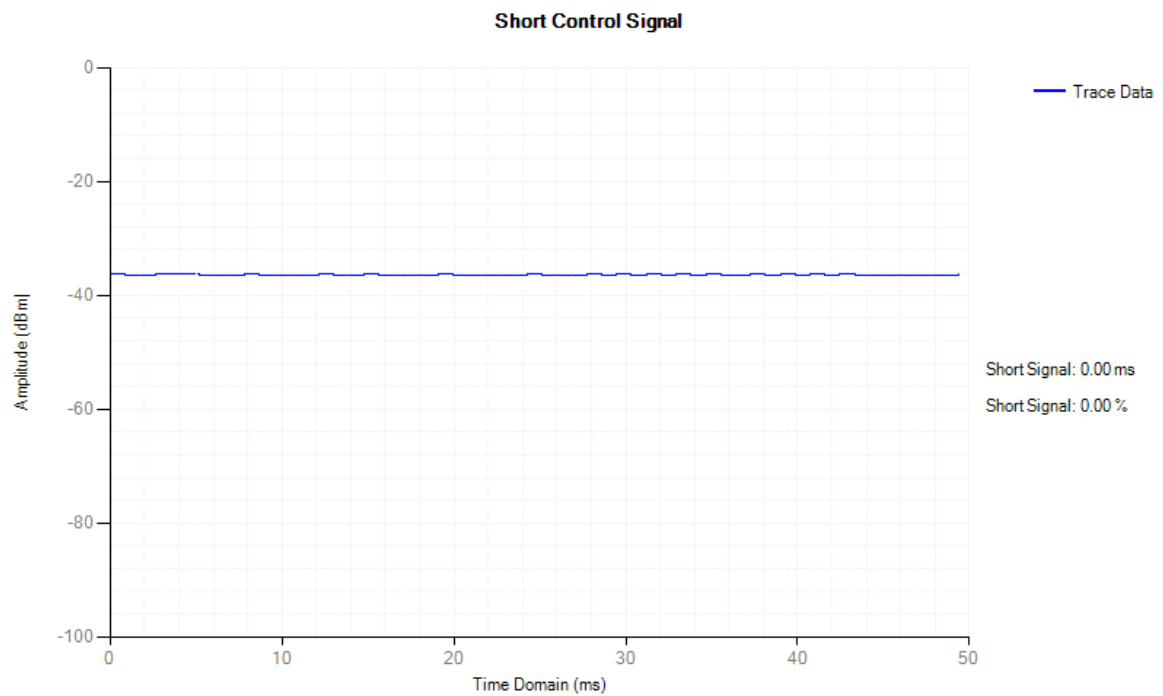
Control Signal NVNT 802.11b 2412MHz



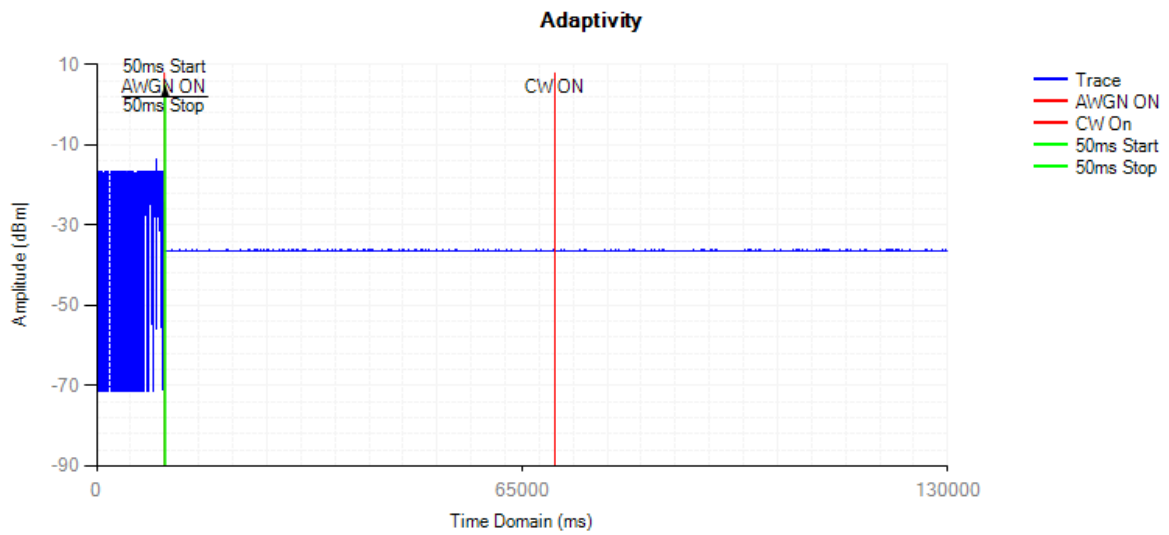
Adaptivity NVNT 802.11b 2472MHz



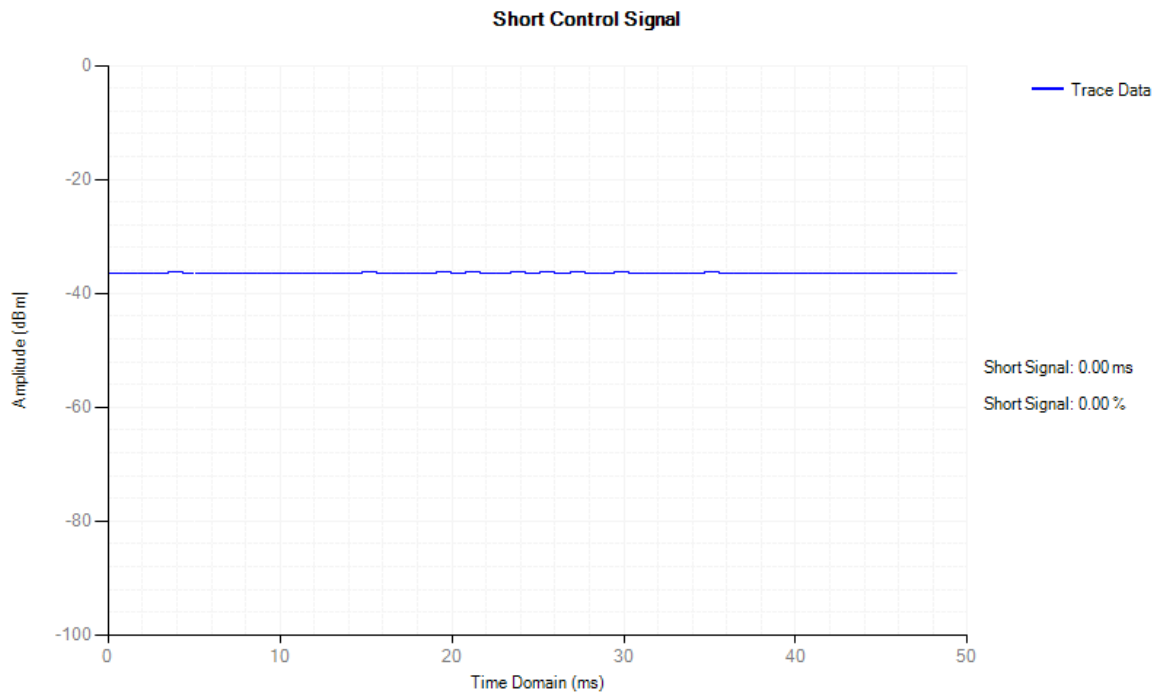
Control Signal NVNT 802.11b 2472MHz



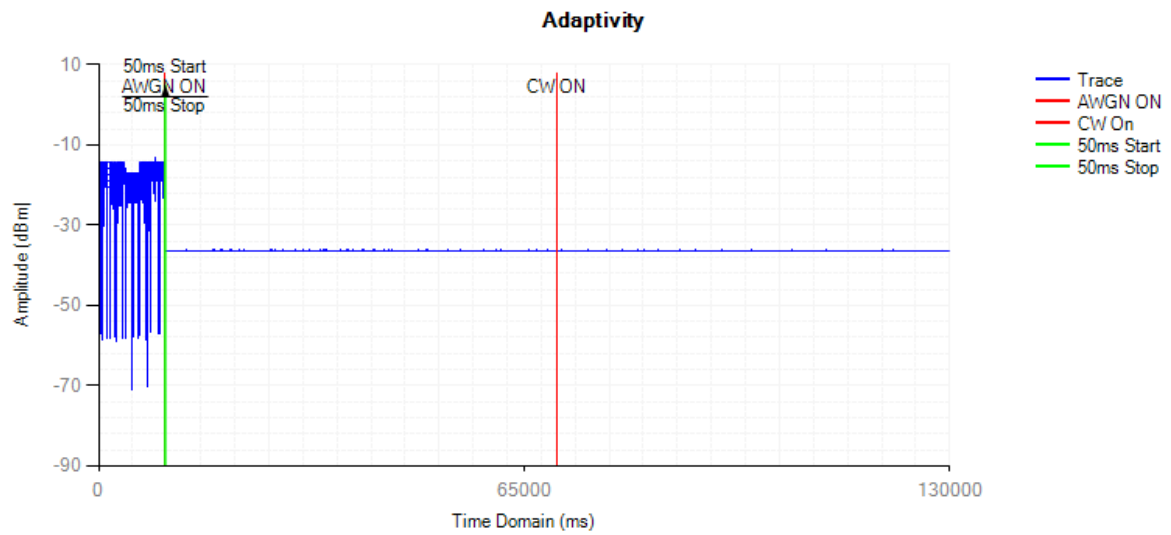
Adaptivity NVNT 802.11g 2412MHz



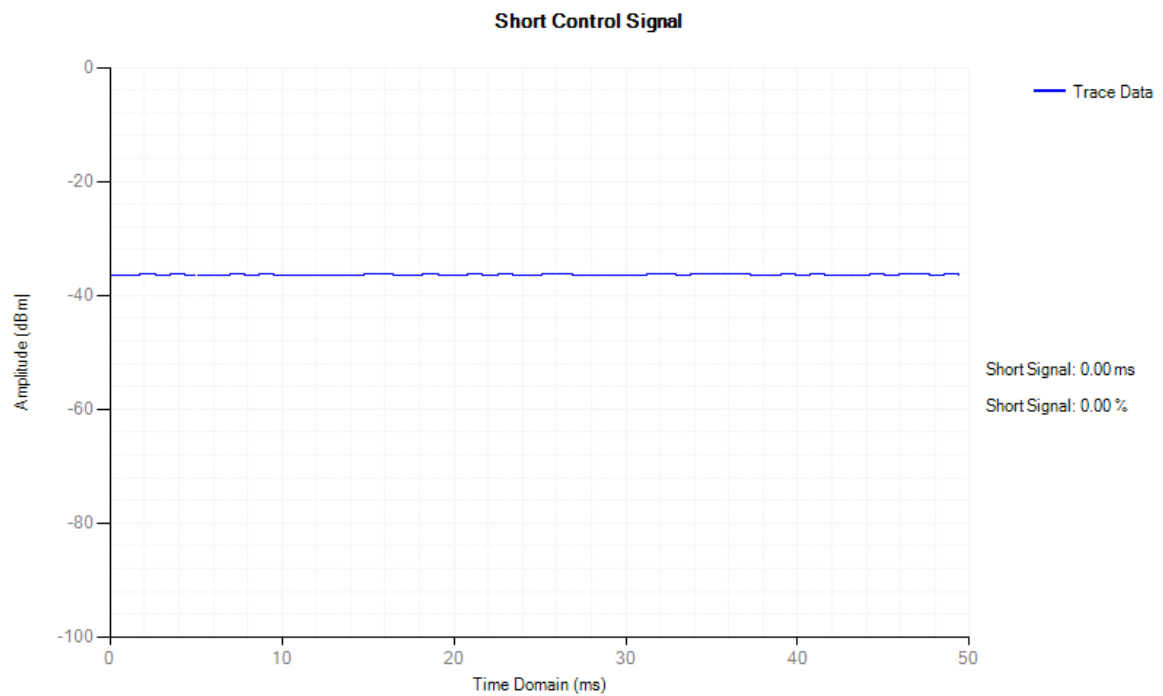
Control Signal NVNT 802.11g 2412MHz



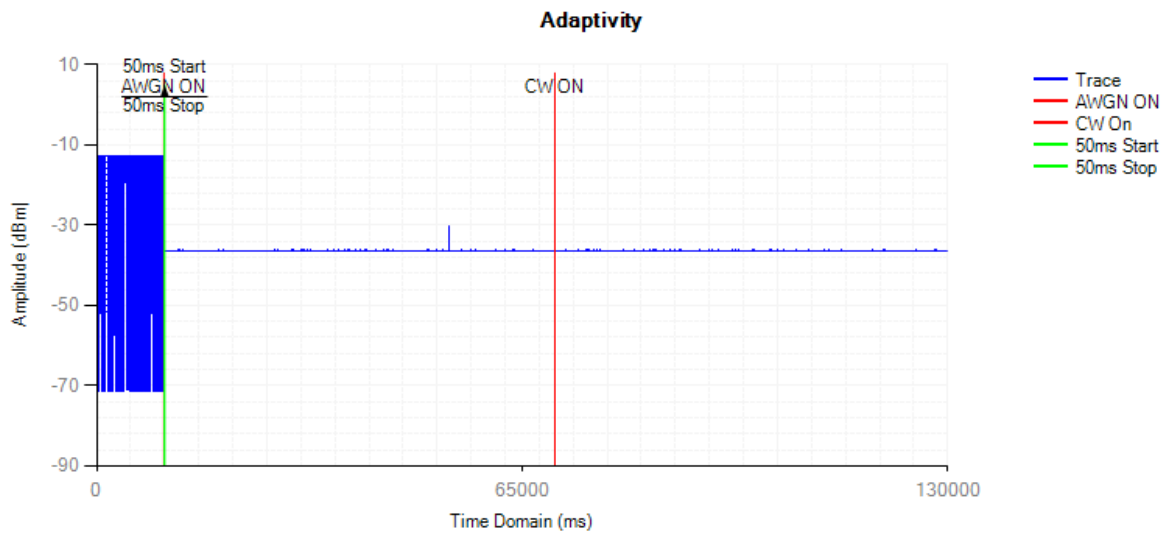
Adaptivity NVNT 802.11g 2472MHz



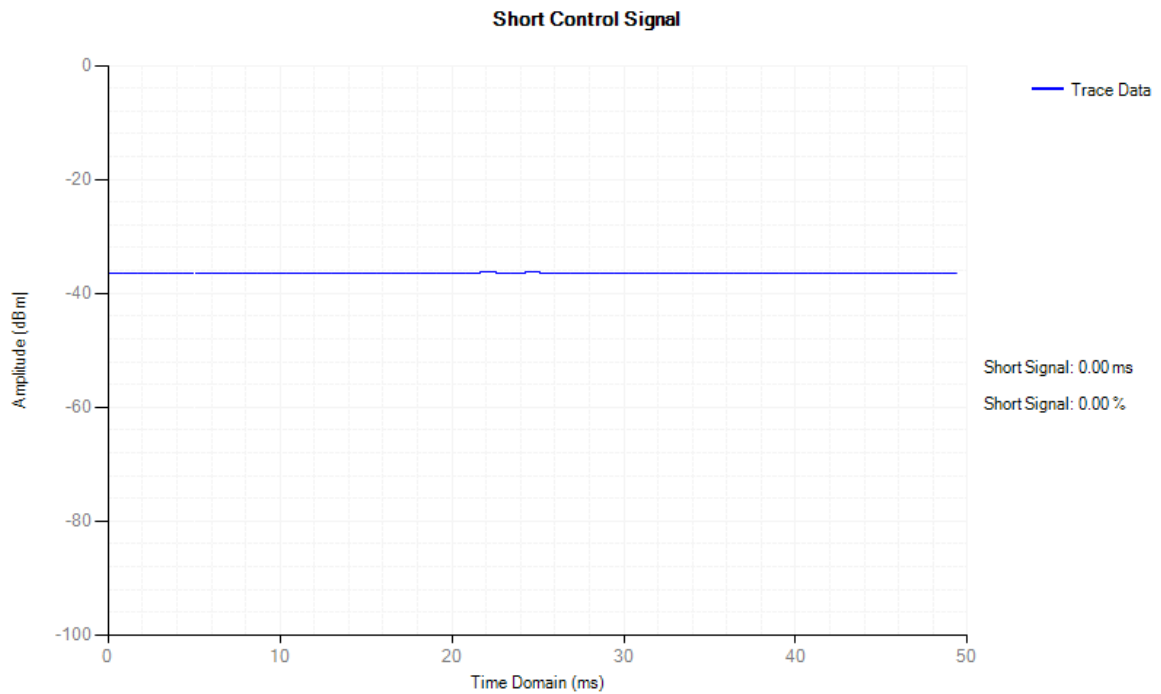
Control Signal NVNT 802.11g 2472MHz



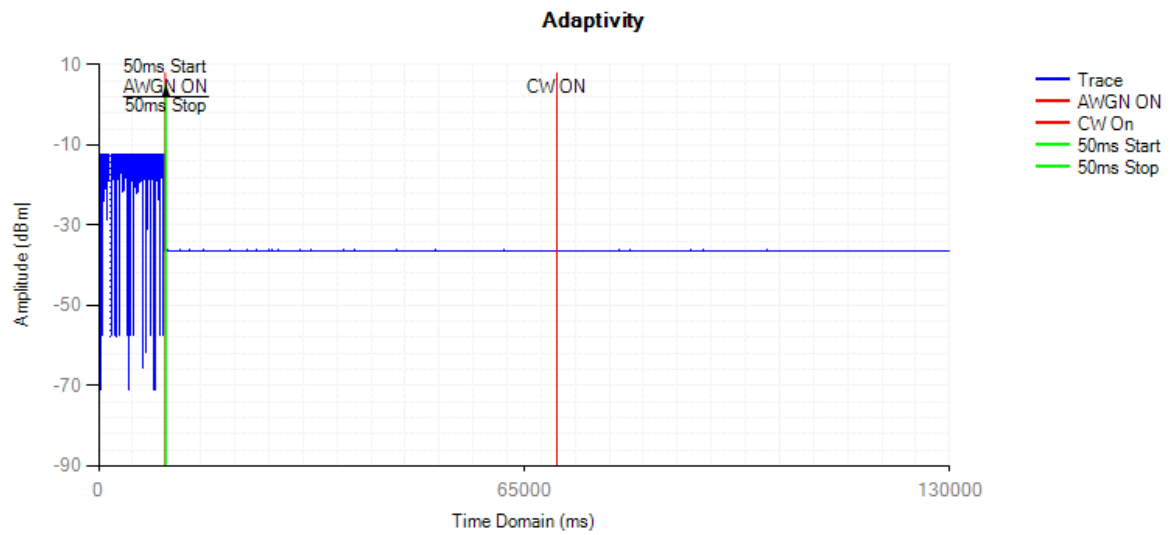
Adaptivity NVNT 802.11n(HT20) 2412MHz



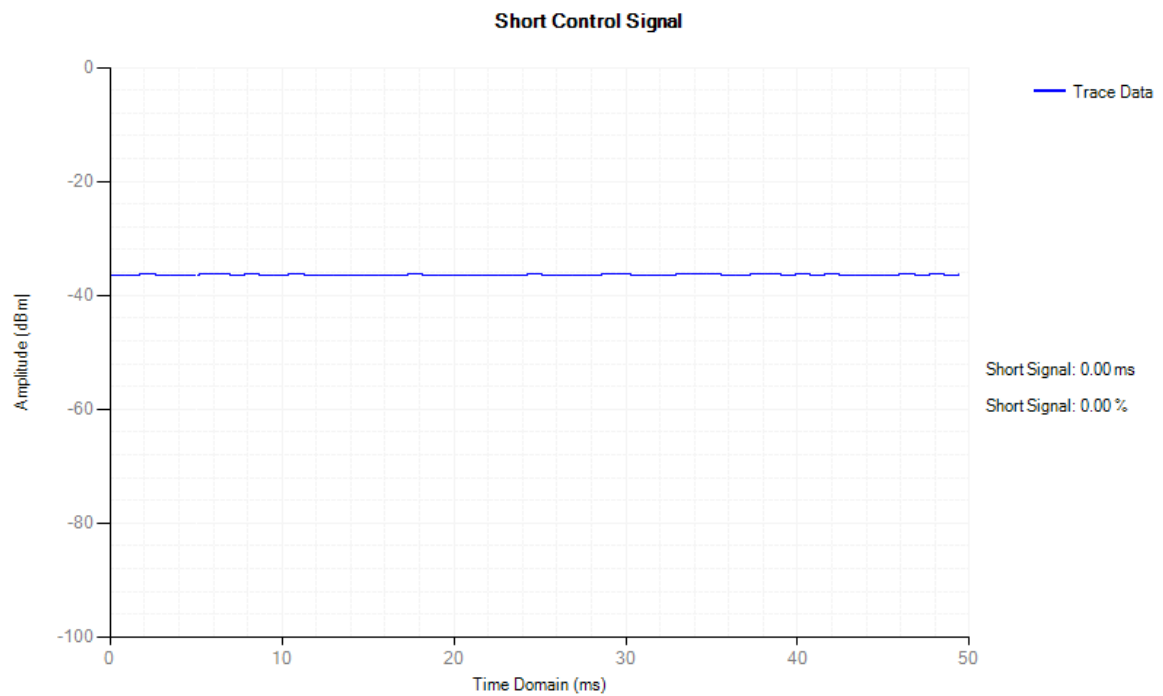
Control Signal NVNT 802.11n(HT20) 2412MHz



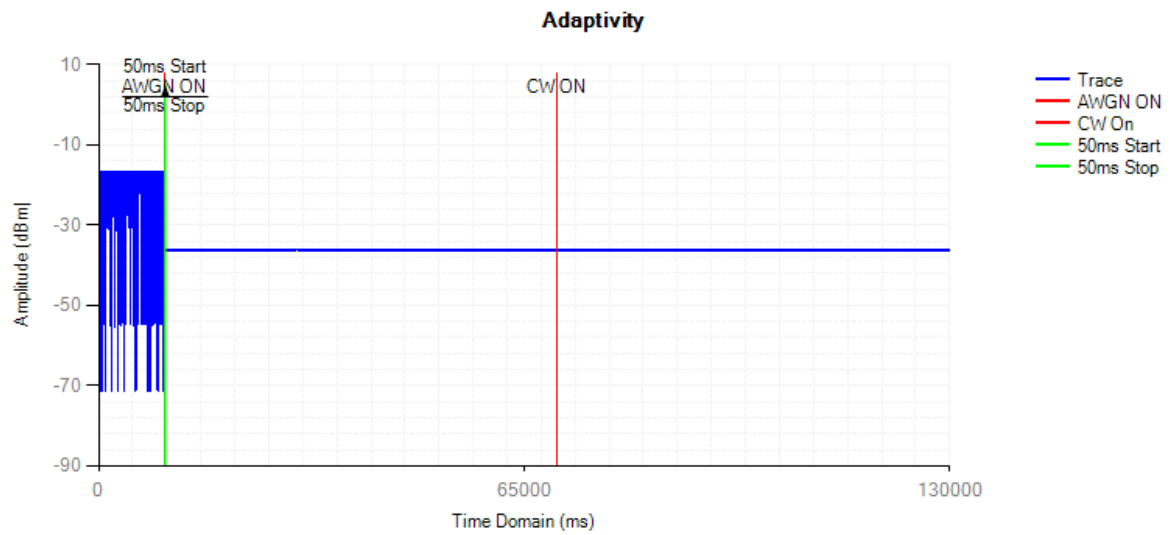
Adaptivity NVNT 802.11n(HT20) 2472MHz



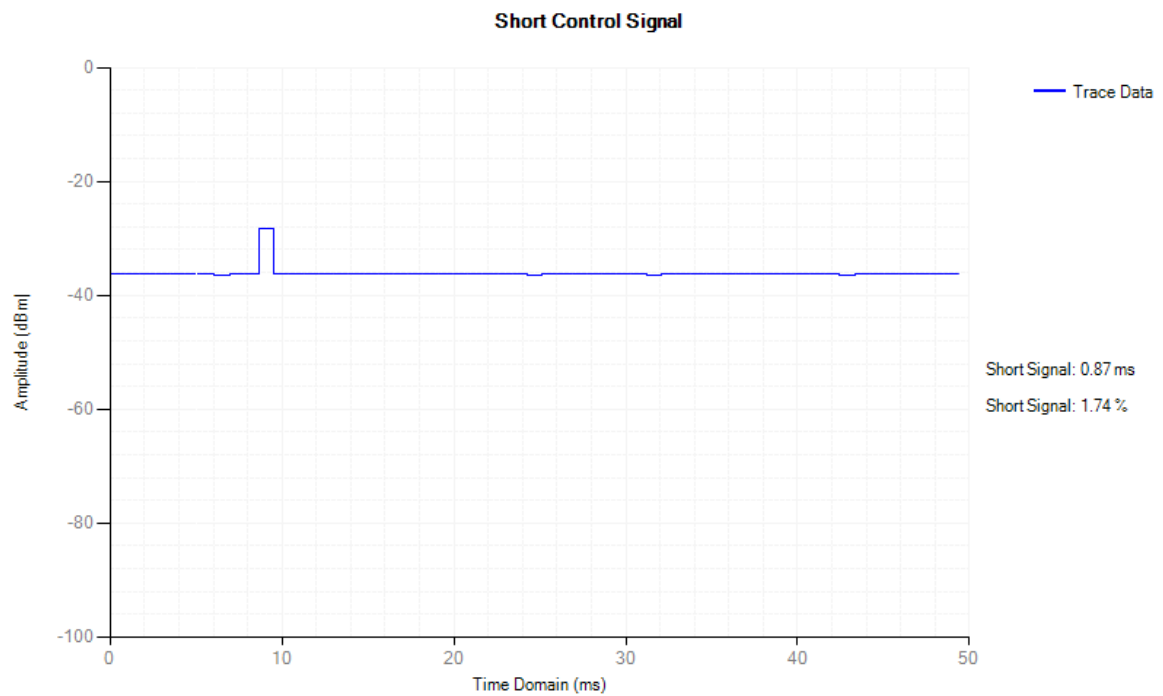
Control Signal NVNT 802.11n(HT20) 2472MHz



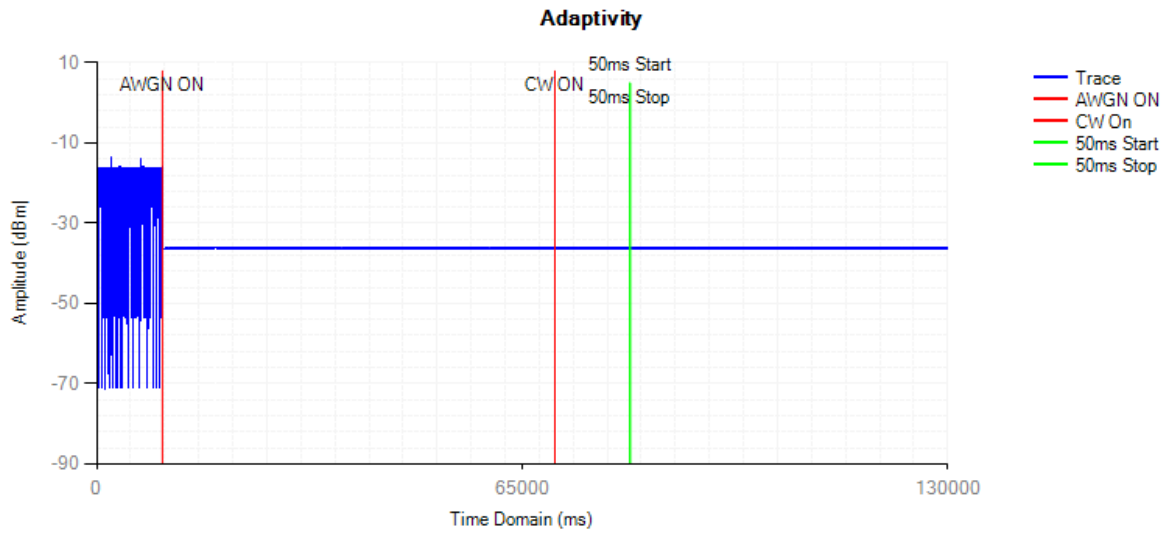
Adaptivity NVNT 802.11n(HT40) 2422MHz



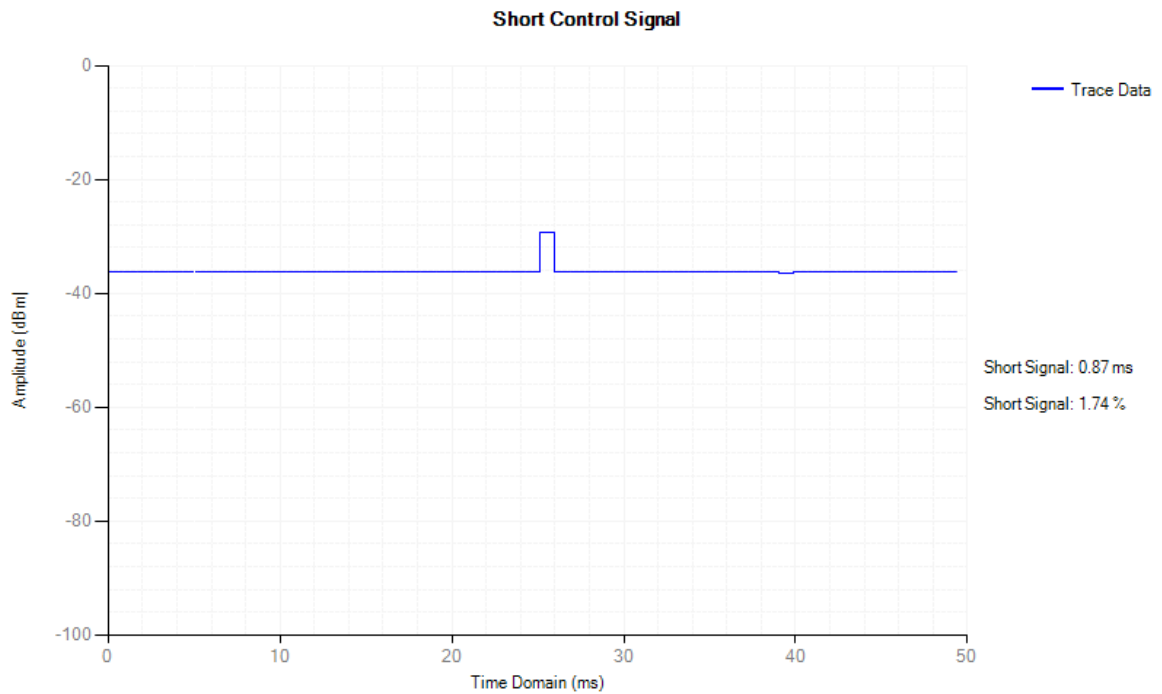
Control Signal NVNT 802.11n(HT40) 2422MHz



Adaptivity NVNT 802.11n(HT40) 2462MHz



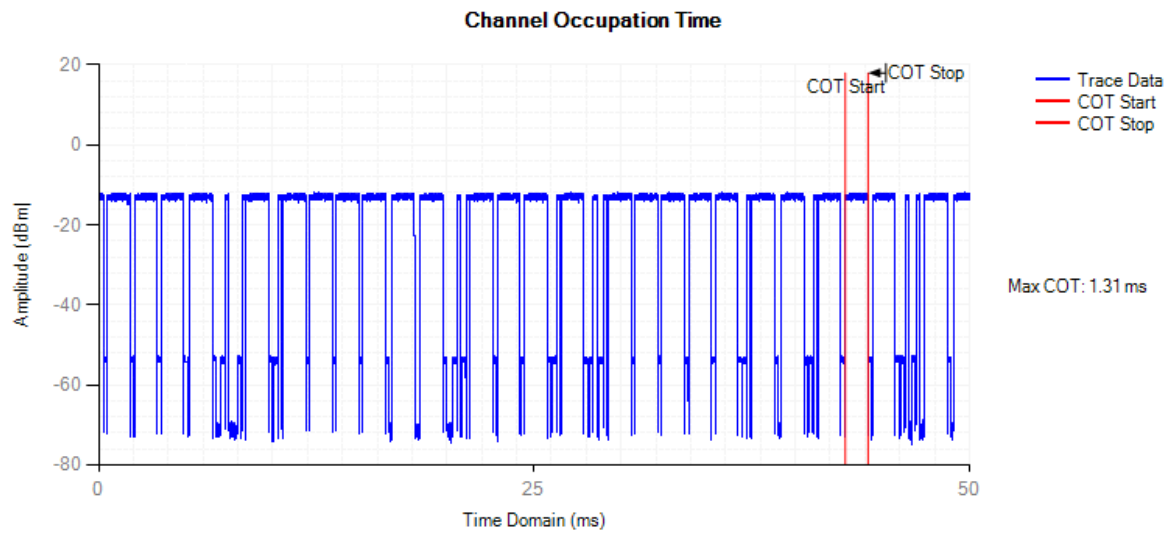
Control Signal NVNT 802.11n(HT40) 2462MHz



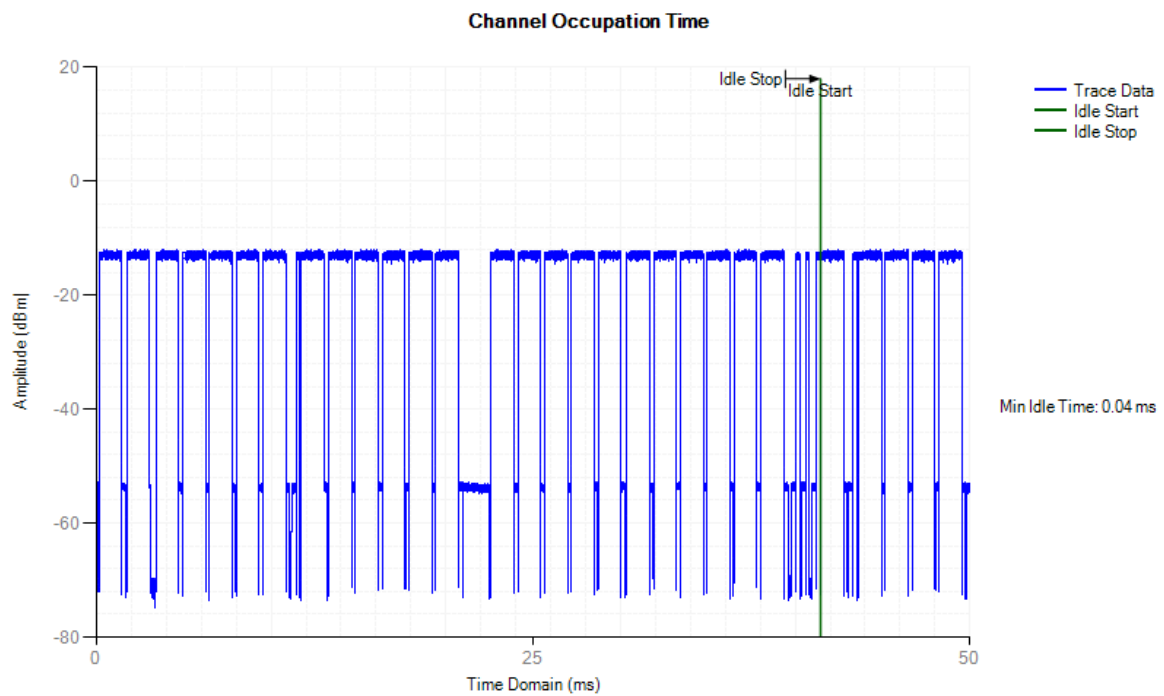
4.8 Adaptivity COT Channel Occupancy Time

Condition	Mode	Frequency (MHz)	Priority Class	Max COT (ms)	Limit COT (ms)	Min Idle Time (ms)	Limit Idle Time (ms)	Verdict
NVNT	802.11b	2412	1	1.307	<=13	0.04	>0.018	Pass
NVNT	802.11b	2472	1	2.412	<=13	0.04	>0.018	Pass
NVNT	802.11g	2412	1	0.252	<=13	0.045	>0.018	Pass
NVNT	802.11g	2472	1	0.563	<=13	0.055	>0.018	Pass
NVNT	802.11n(HT20)	2412	1	0.248	<=13	0.047	>0.018	Pass
NVNT	802.11n(HT20)	2472	1	1.303	<=13	0.04	>0.018	Pass
NVNT	802.11n(HT40)	2422	1	2.305	<=13	0.047	>0.018	Pass
NVNT	802.11n(HT40)	2462	1	2.313	<=13	0.047	>0.018	Pass

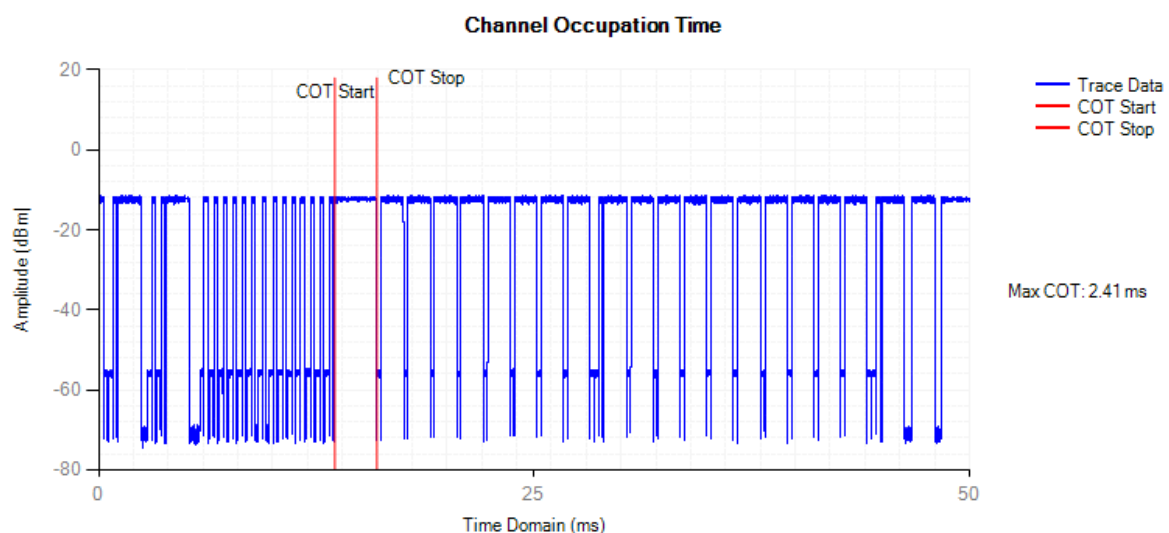
COT NVNT 802.11b 2412MHz



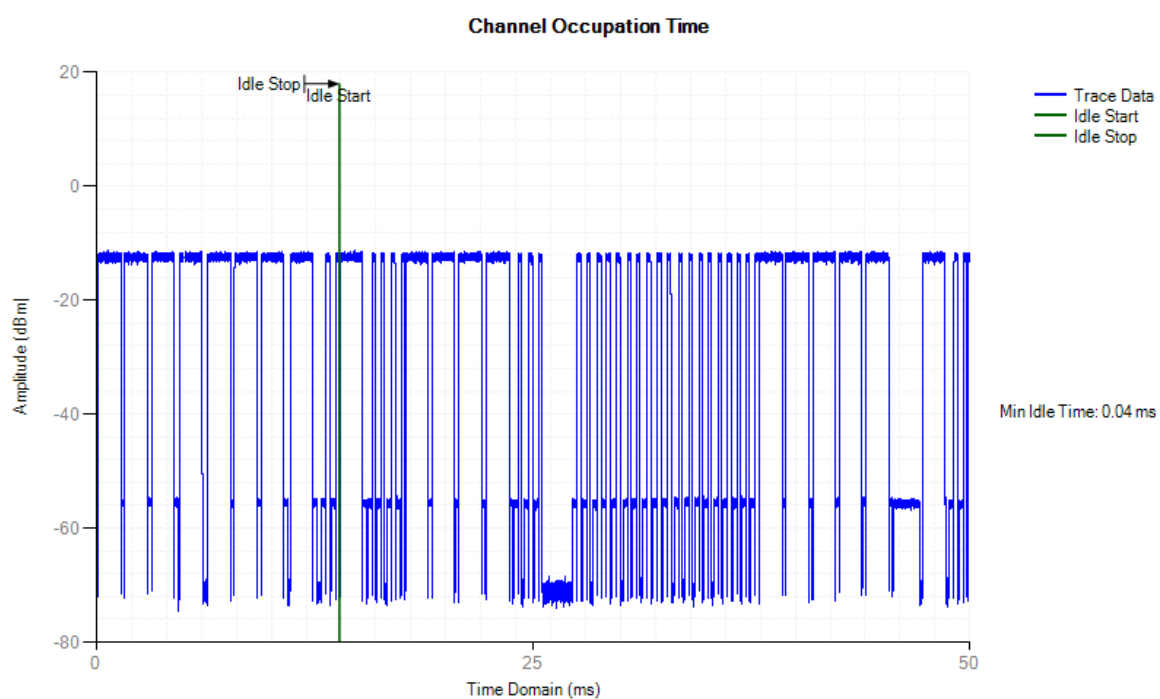
Idle NVNT 802.11b 2412MHz



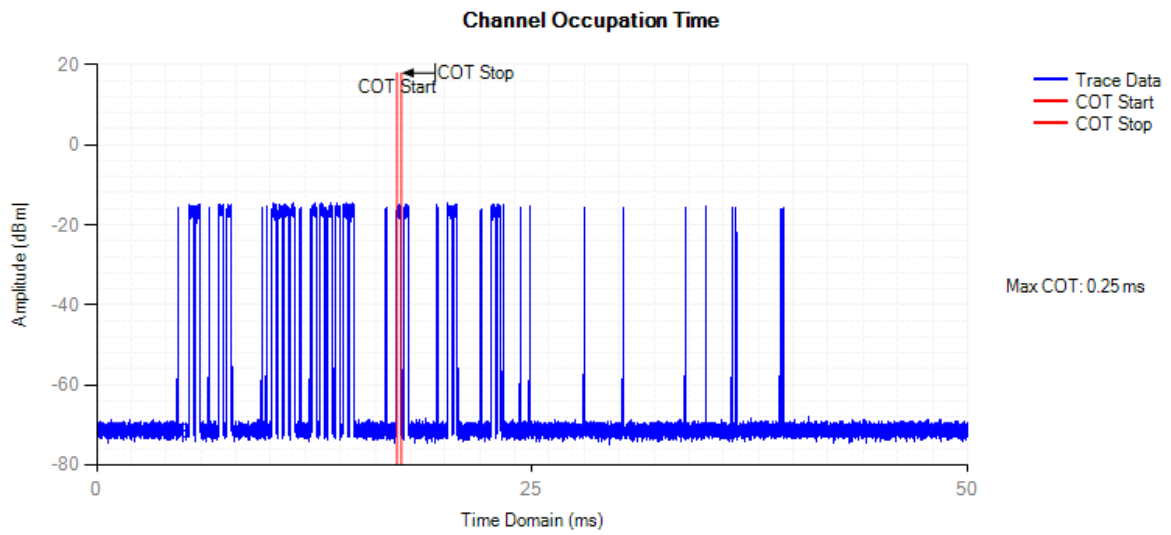
COT NVNT 802.11b 2472MHz



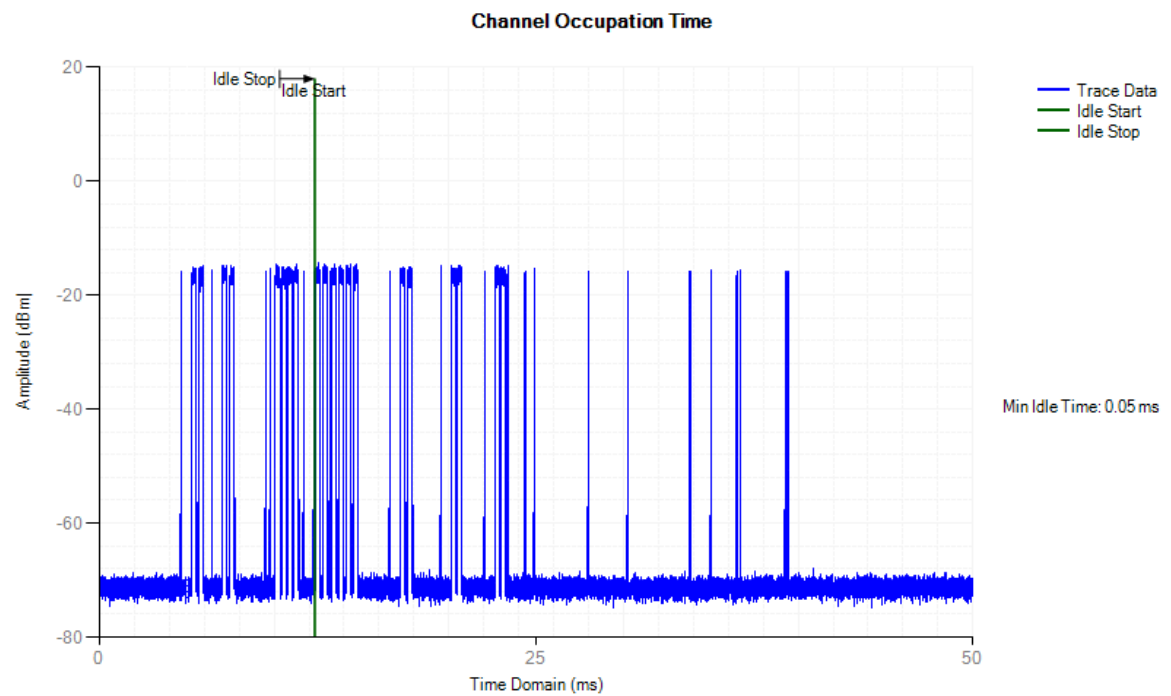
Idle NVNT 802.11b 2472MHz



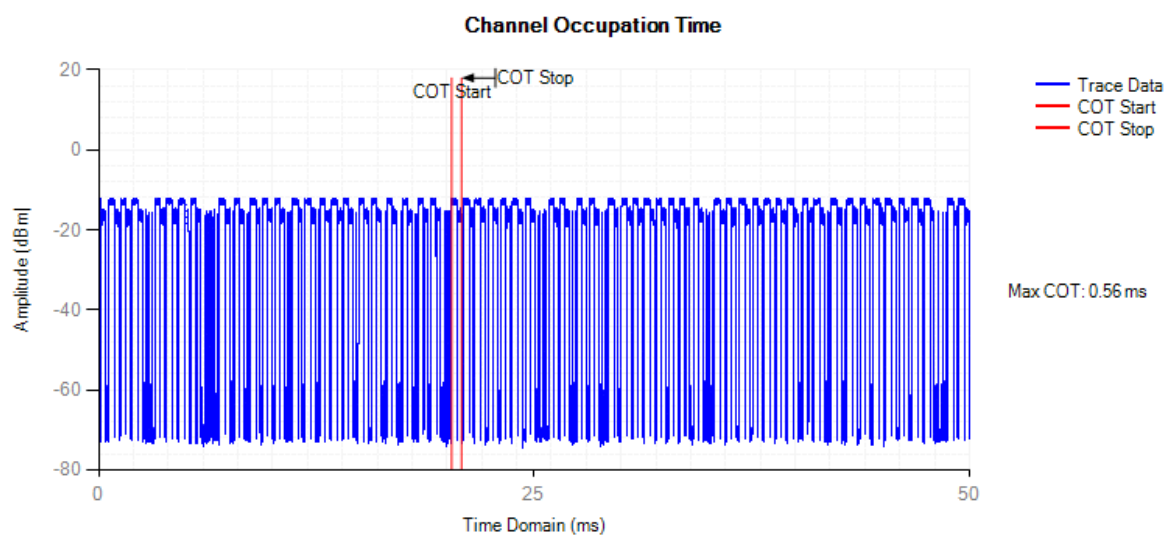
COT NVNT 802.11g 2412MHz



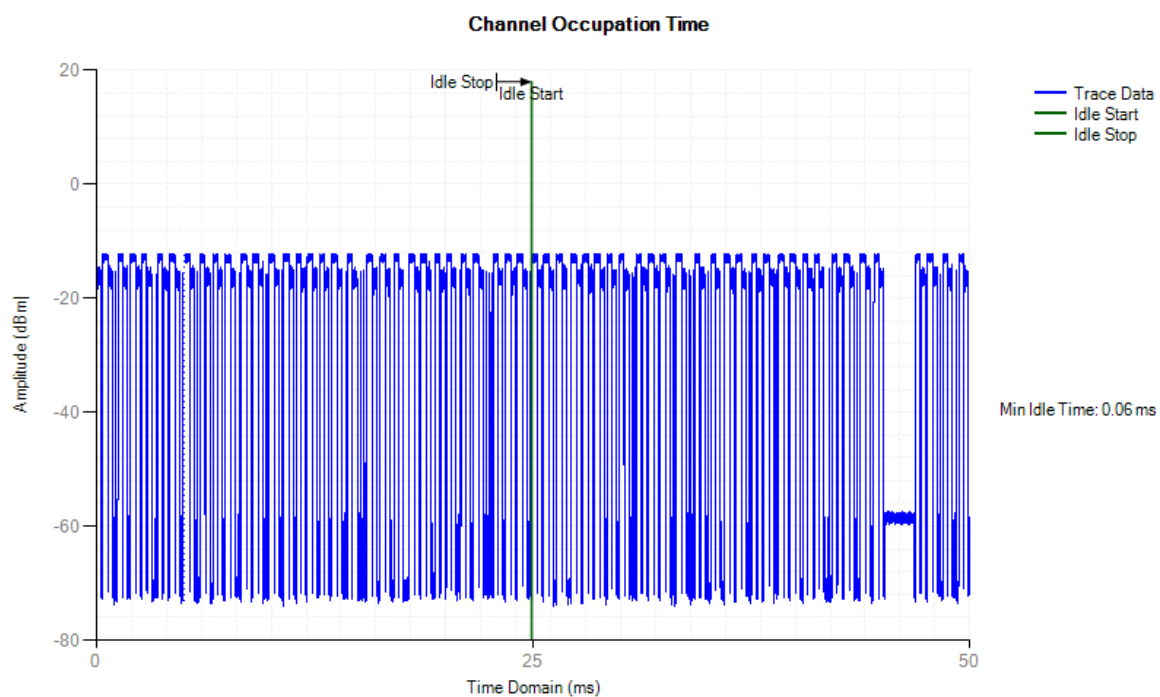
Idle NVNT 802.11g 2412MHz



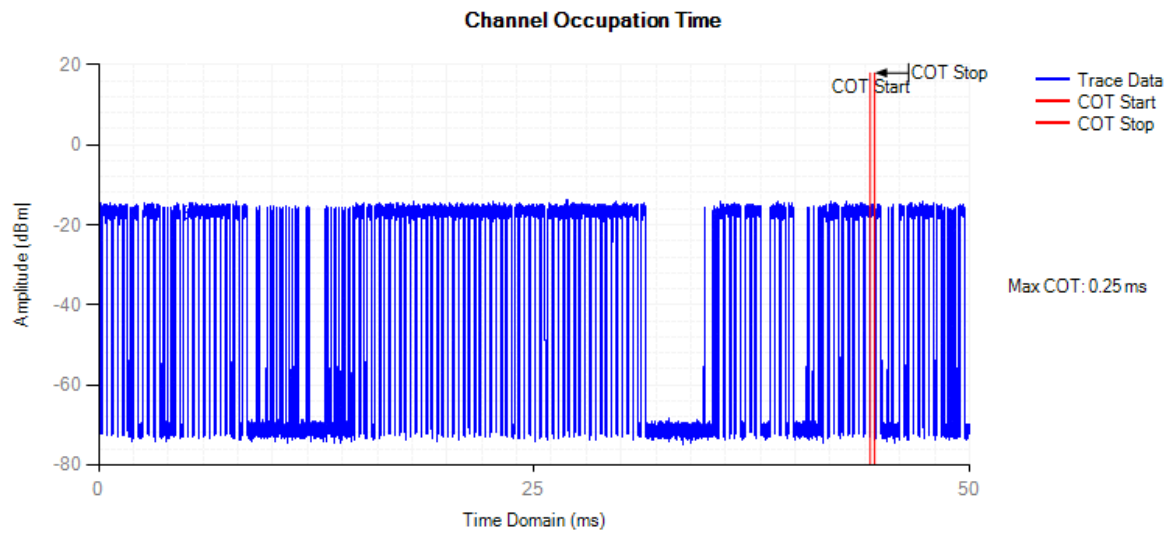
COT NVNT 802.11g 2472MHz



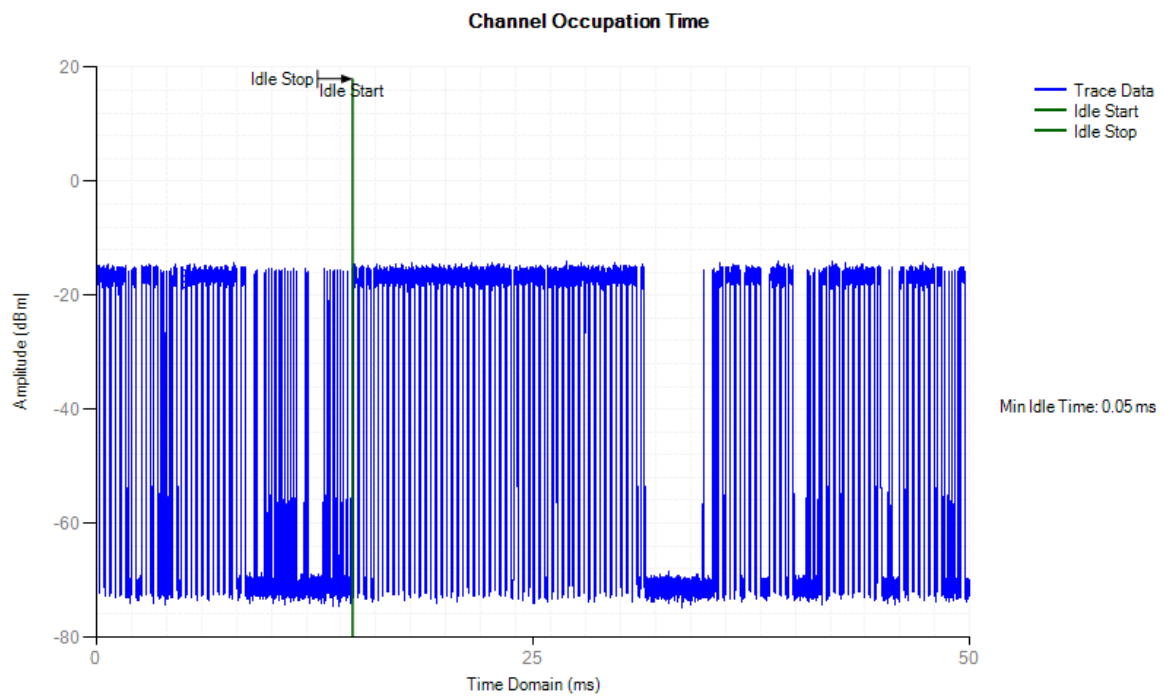
Idle NVNT 802.11g 2472MHz



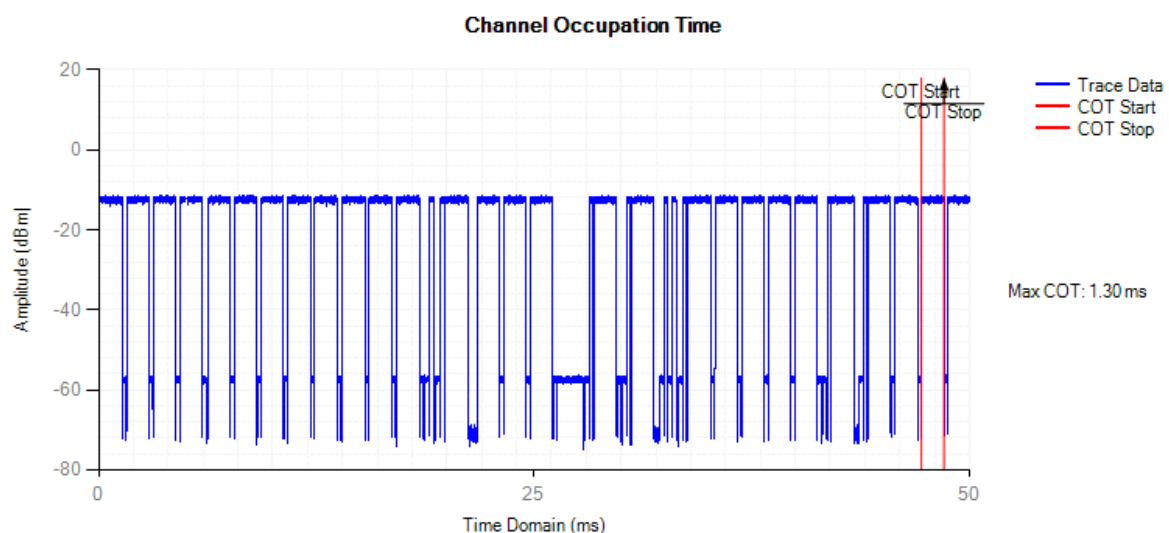
COT NVNT 802.11n(HT20) 2412MHz



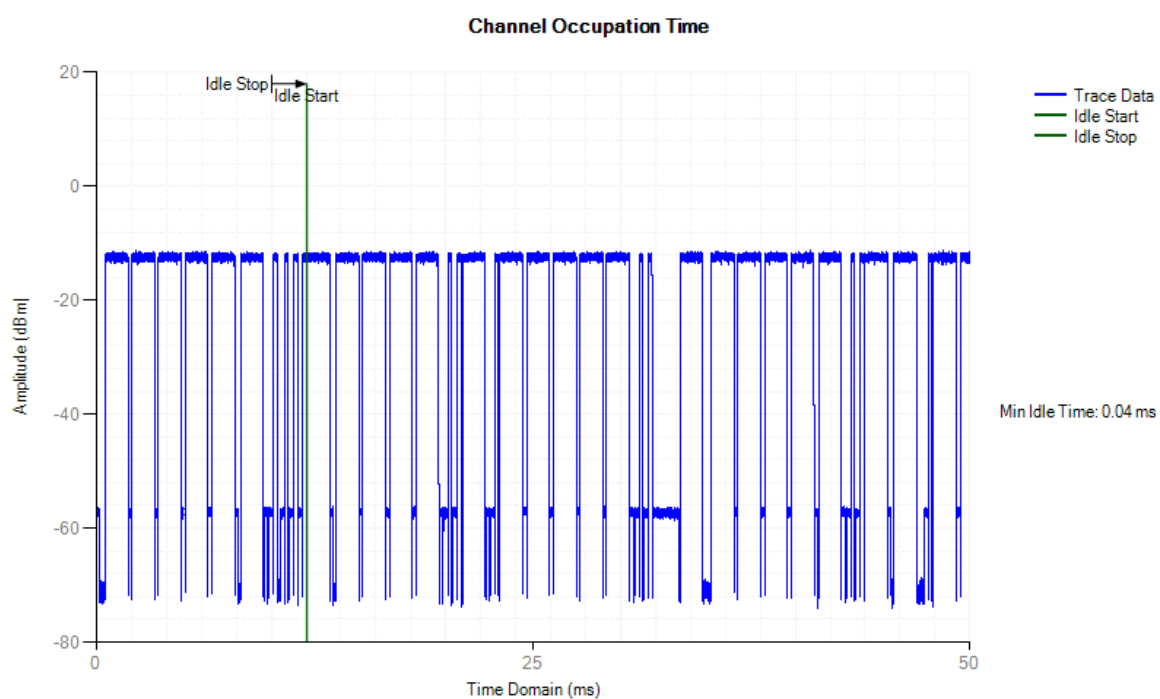
Idle NVNT 802.11n(HT20) 2412MHz



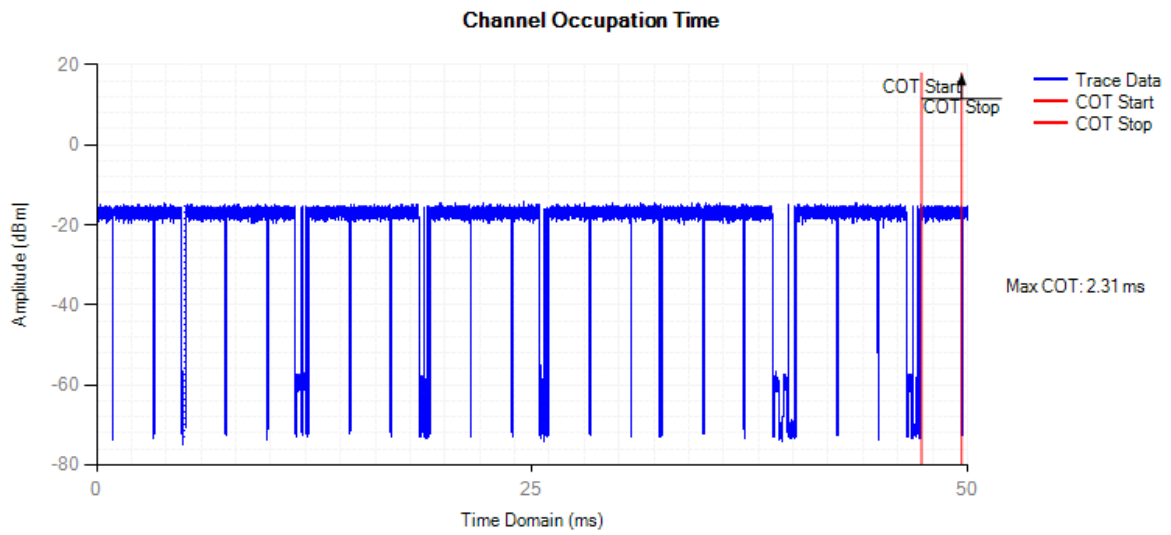
COT NVNT 802.11n(HT20) 2472MHz



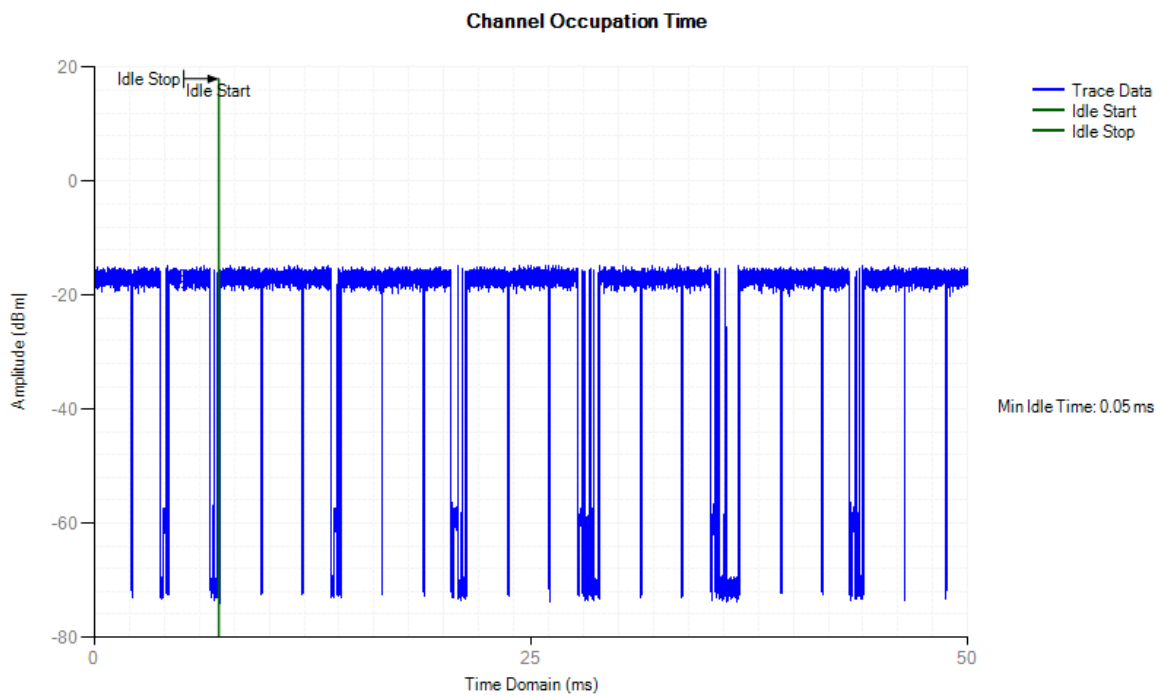
Idle NVNT 802.11n(HT20) 2472MHz



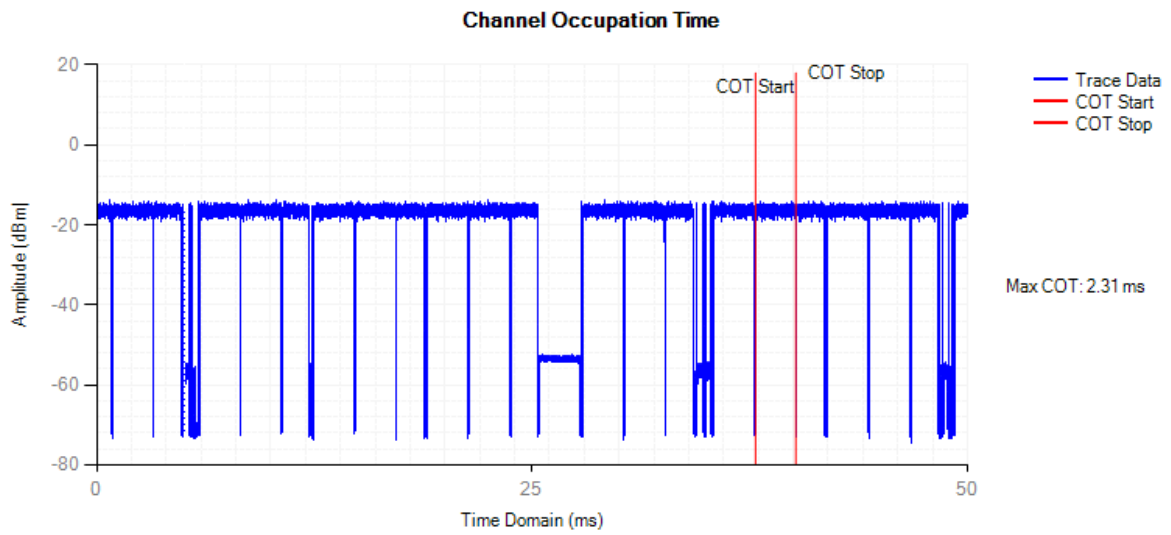
COT NVNT 802.11n(HT40) 2422MHz



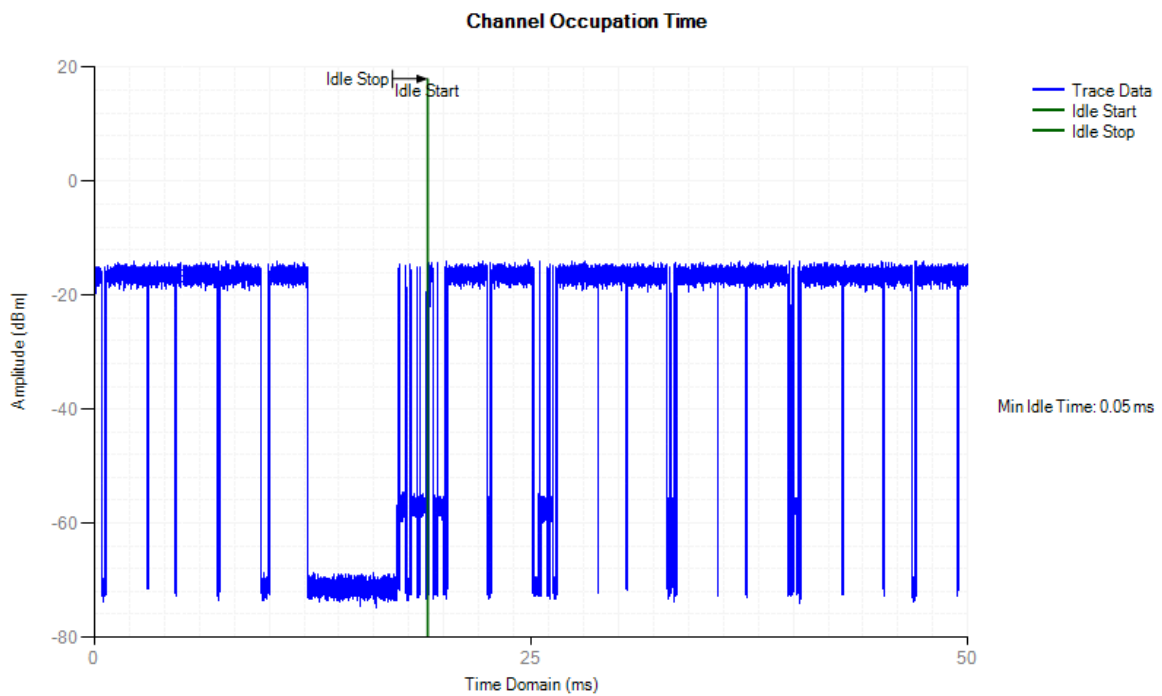
Idle NVNT 802.11n(HT40) 2422MHz



COT NVNT 802.11n(HT40) 2462MHz

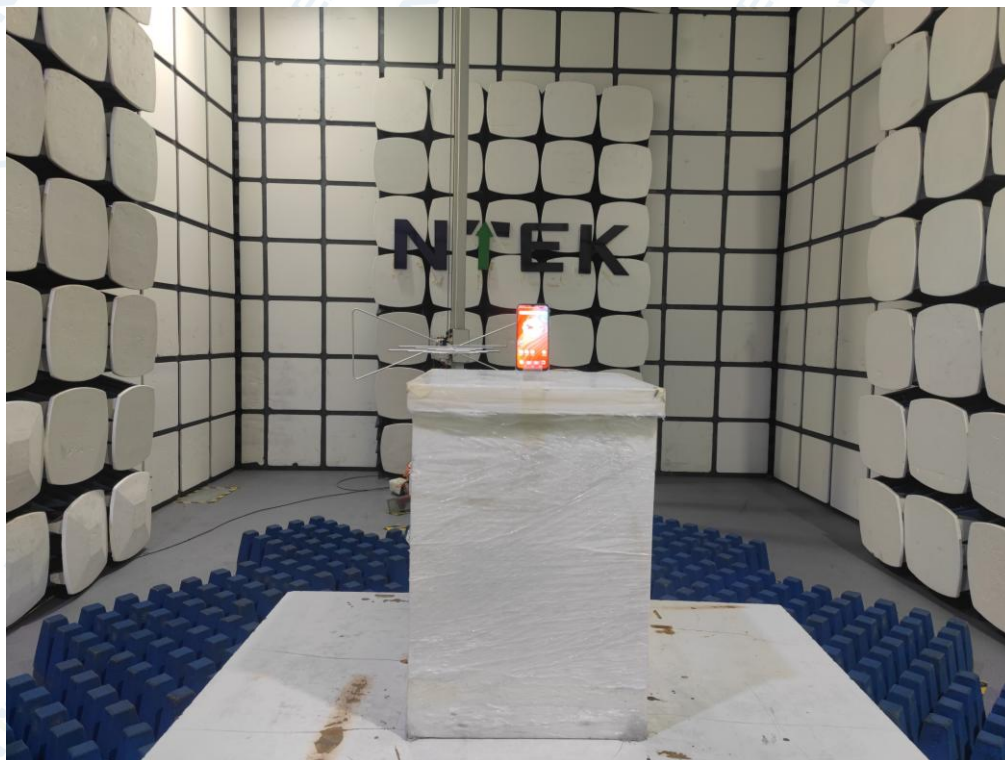


Idle NVNT 802.11n(HT40) 2462MHz



5. EUT TEST PHOTO

SPURIOUS EMISSIONS MEASUREMENT PHOTOS



END OF REPORT