

TEST REPORT

Report No.: BCTC2310953427-3E

Applicant: PLAATO TECHNOLOGIES AS

Product Name: PLAATO Pro

Model/Type
reference: v4.0.1

Tested Date: 2023-10-25 to 2023-11-01

Issued Date: 2023-11-01

Shenzhen BCTC Testing Co., Ltd.



FCC ID:2BD6S-V401

Product Name: PLAATO Pro
Trademark: N/A
Model/Type reference: v4.0.1
Prepared For: PLAATO TECHNOLOGIES AS
Address: Brenneriveien 9 0182 Oslo Norway
Manufacturer: PLAATO TECHNOLOGIES AS
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Prepared By: Shenzhen BCTC Testing Co., Ltd.
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Sample Received Date: 2023-10-25
Sample tested Date: 2023-10-25 to 2023-11-01
Issue Date: 2023-11-01
Report No.: BCTC2310953427-3E
Test Standards: FCC Part15.247
ANSI C63.10-2013
Test Results: PASS
Remark: This is WIFI-2.4GHz band radio test report.

Tested by:



Kelsey Tan/ Project Handler

Approved by:



Zero Zhou/Reviewer

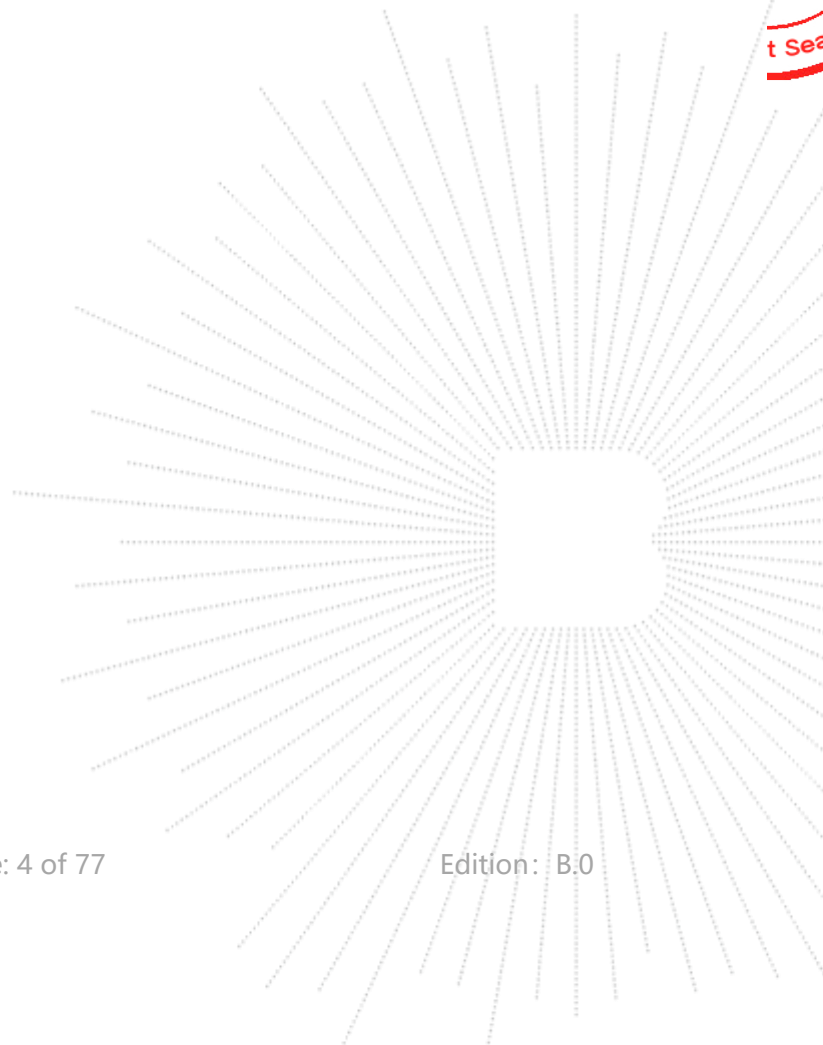
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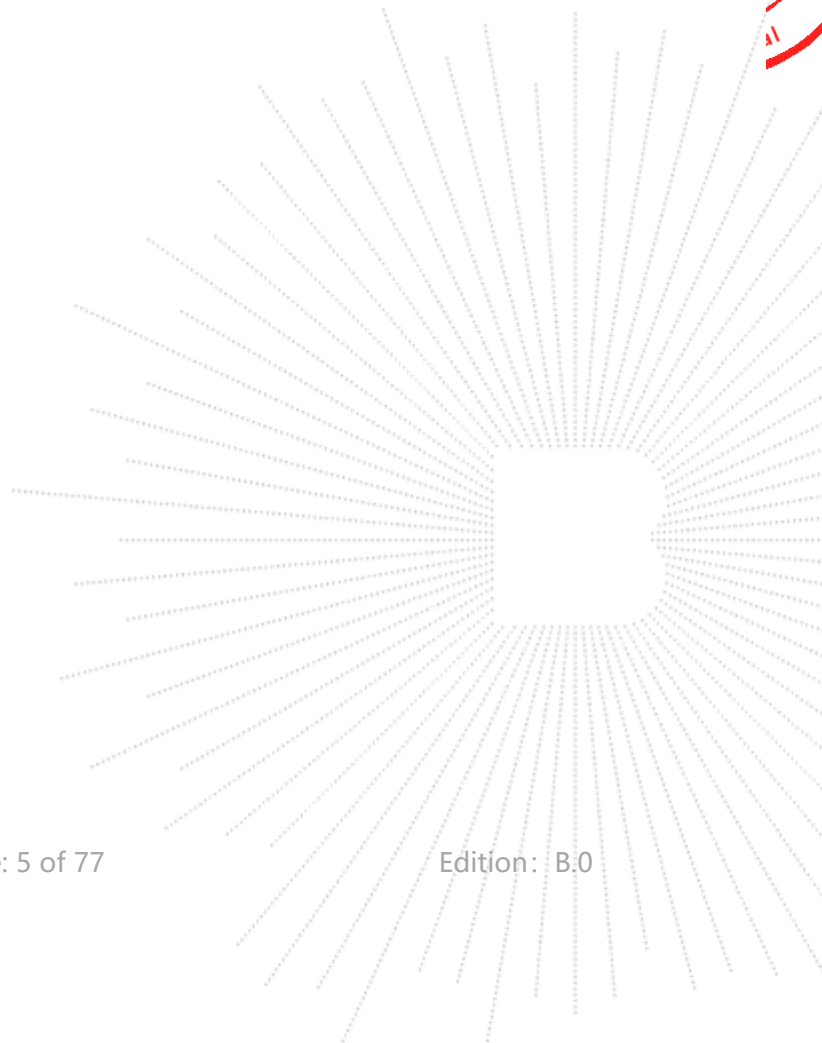
(Note: N/A means not applicable)



TEST
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1. Version

Report No.	Issue Date	Description	Approved
BCTC2310953427-3E	2023-11-01	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Conducted Emission	15.207	N/A ¹
2	6dB Bandwidth	15.247 (a)(2)	PASS
3	Peak Output Power	15.247 (b)	PASS
4	Radiated Spurious Emission	15.247 (d)	PASS
5	Power Spectral Density	15.247 (e)	PASS
6	Restricted Band of Operation	15.205	PASS
7	Band Edge (Out of Band Emissions)	15.247 (d)	PASS
8	Antenna Requirement	15.203	PASS

Note:

(1) "N/A" denotes test is not applicable in this Test Report

CO., LTD.

3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	v4.0.1
Hardware Version:	v4.0.1
Software Version:	2.4.3
Operation Frequency:	802.11b/g/n20MHz:2412~2462 MHz 802.11n40MHz:2422~2452 MHz
Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n Up to 150Mbps
Type of Modulation:	OFDM/DSSS
Number Of Channel	802.11b/g/n20MHz:11 CH 802.11n40MHz: 7 CH
Antenna installation:	Internal antenna
Antenna Gain:	3.28 dBi
Ratings:	DC 3V

4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Radiated Spurious Emission

E-1
EUT

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	PLAATO Pro	N/A	v4.0.1	N/A	EUT

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

Channel List for 802.11b/g/n(20)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	02	2417	03	2422
04	2427	05	2432	06	2437
07	2442	08	2447	09	2452
10	2457	11	2462		

Channel List for 802.11n(40)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	04	2427	05	2432
06	2437	07	2442	08	2447
09	2452				

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20 CH1/ CH6/ CH11
Mode 4	802.11n40 CH3/ CH6/ CH9
Mode 5	Link Mode

Radiated Emission	
Final Test Mode	Description
Mode 5	Link Mode

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	SecureCRT		
Frequency	2412 MHz	2437 MHz	2462 MHz
Parameters	DEF	DEF	DEF
Frequency	2422MHz	2437MHz	2452MHz
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

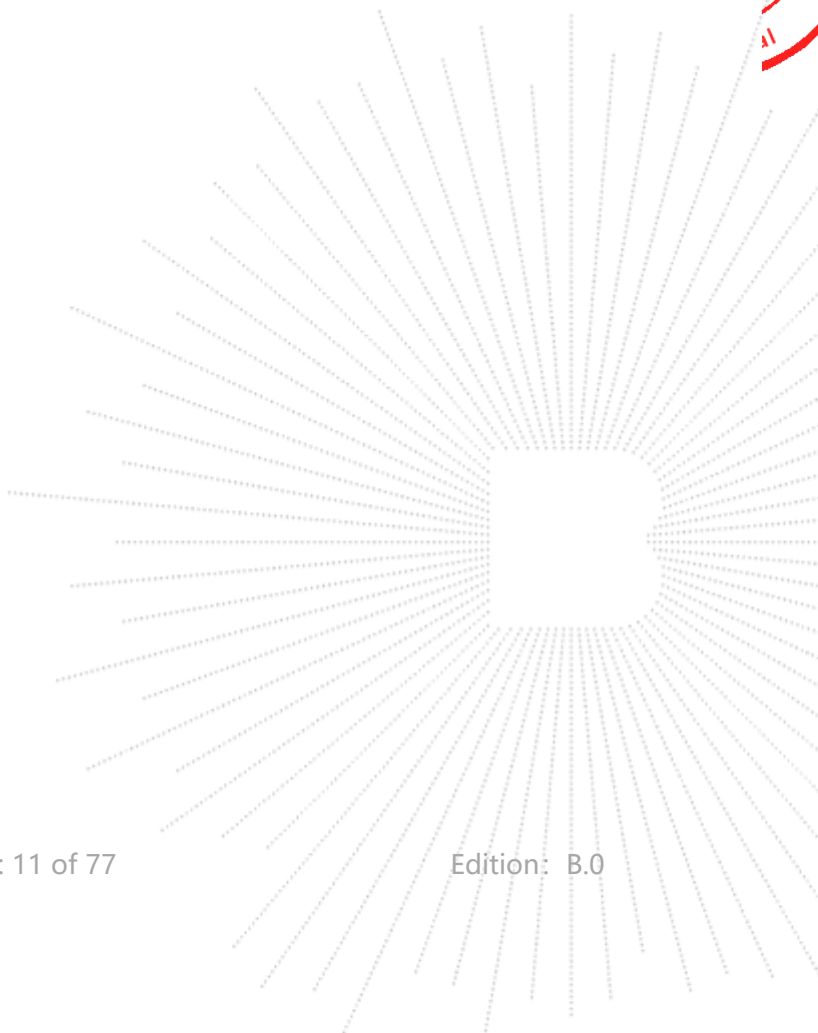
ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

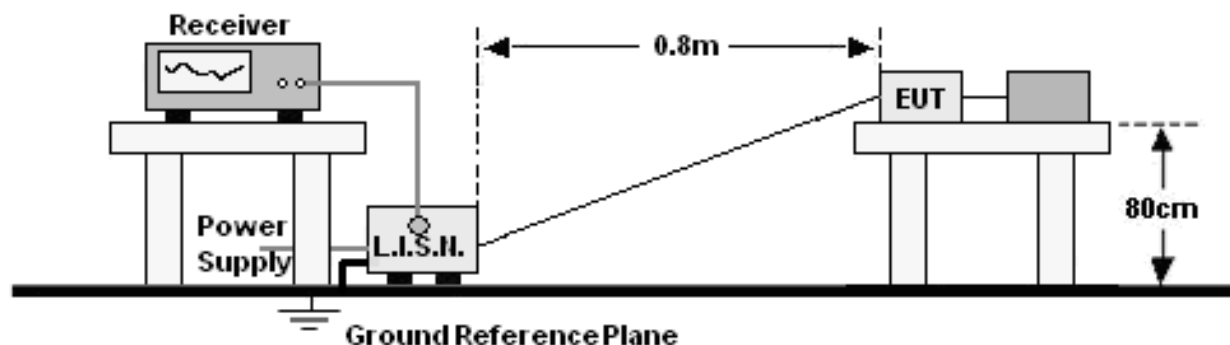
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Radio frequency control box	MAIWEI	MW100-RFC B	\	\	\
Software	MAIWEI	MTS 8310	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024
Loop Antenna(9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G18 G-45dB	SK2021040901	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 15, 2023	May 14, 2024
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	FA-03A2 RE	\	\



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:

- *Decreasing linearly with logarithm of frequency.
- The lower limit shall apply at the transition frequencies.

6.3 Test Procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

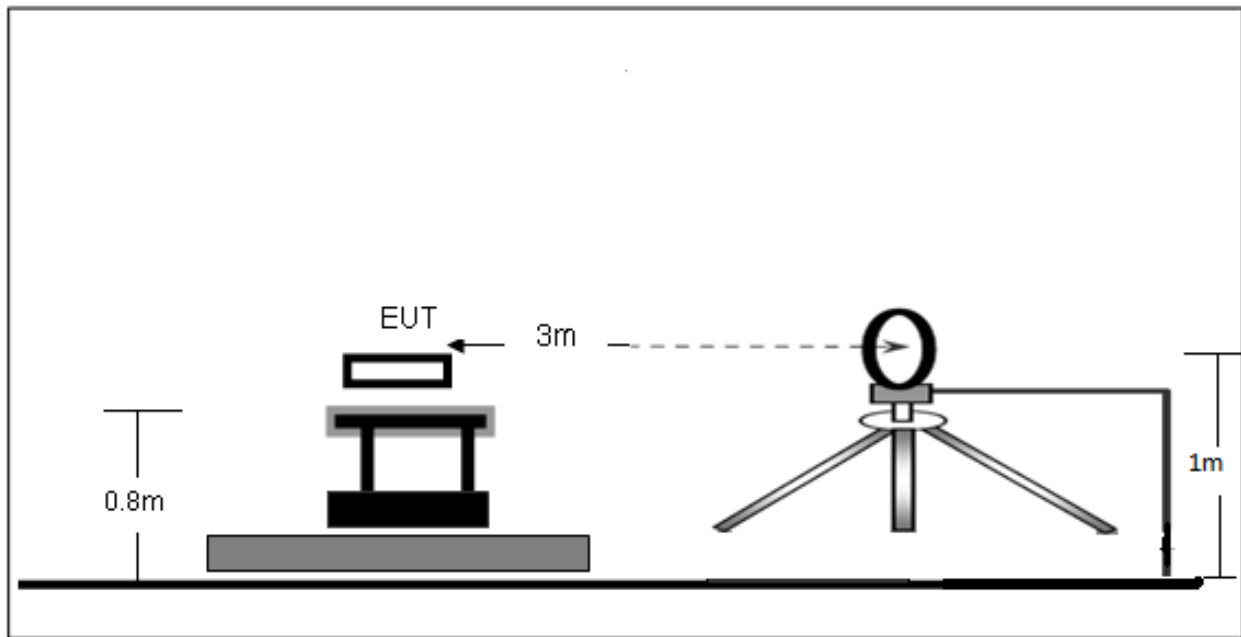
6.5 Test Result

The EUT is powered by the DC only, the test item is not applicable.

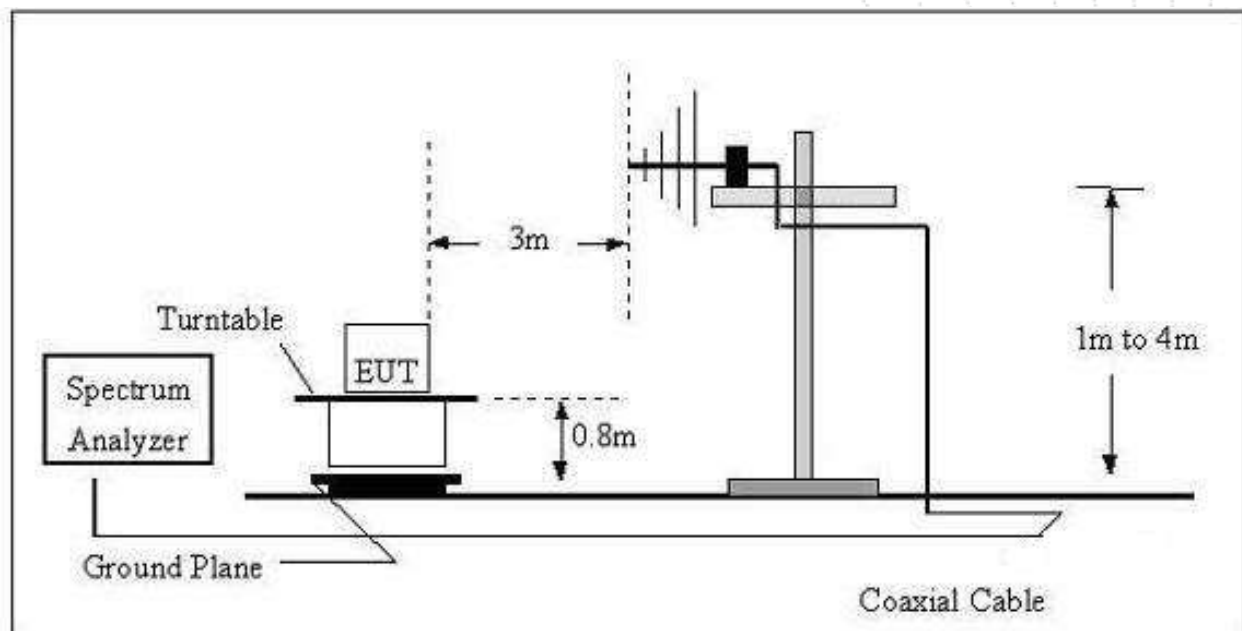
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

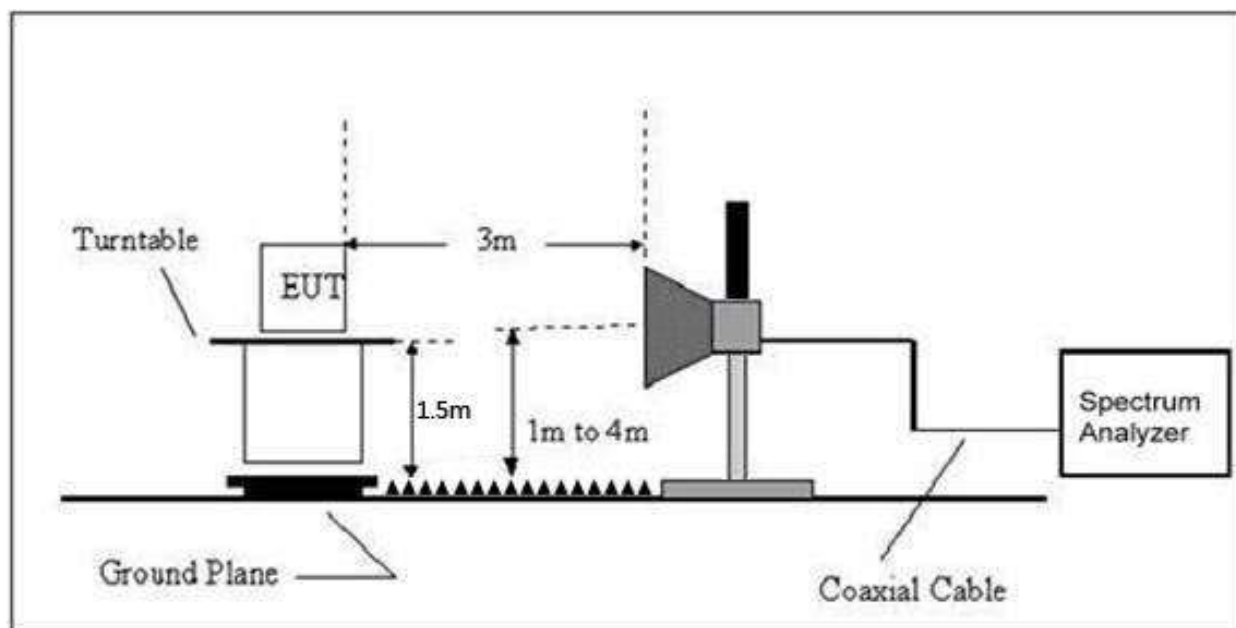
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency (MHz)	Field Strength uV/m	Distance (m)	Field Strength Limit at 3m Distance	
			uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log(2400/F(\text{kHz})) + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log(24000/F(\text{kHz})) + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1)The limit for radiated test was performed according to FCC PART 15C.
- (2)The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

7.3 Test Procedure

Receiver Parameter	Setting
Attenuation	Auto
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- Test the EUT in the lowest channel ,the middle channel ,the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

Above 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Below 30MHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3V
Test Mode:	Mode 5	Polarization :	--

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 5	Remark:	N/A

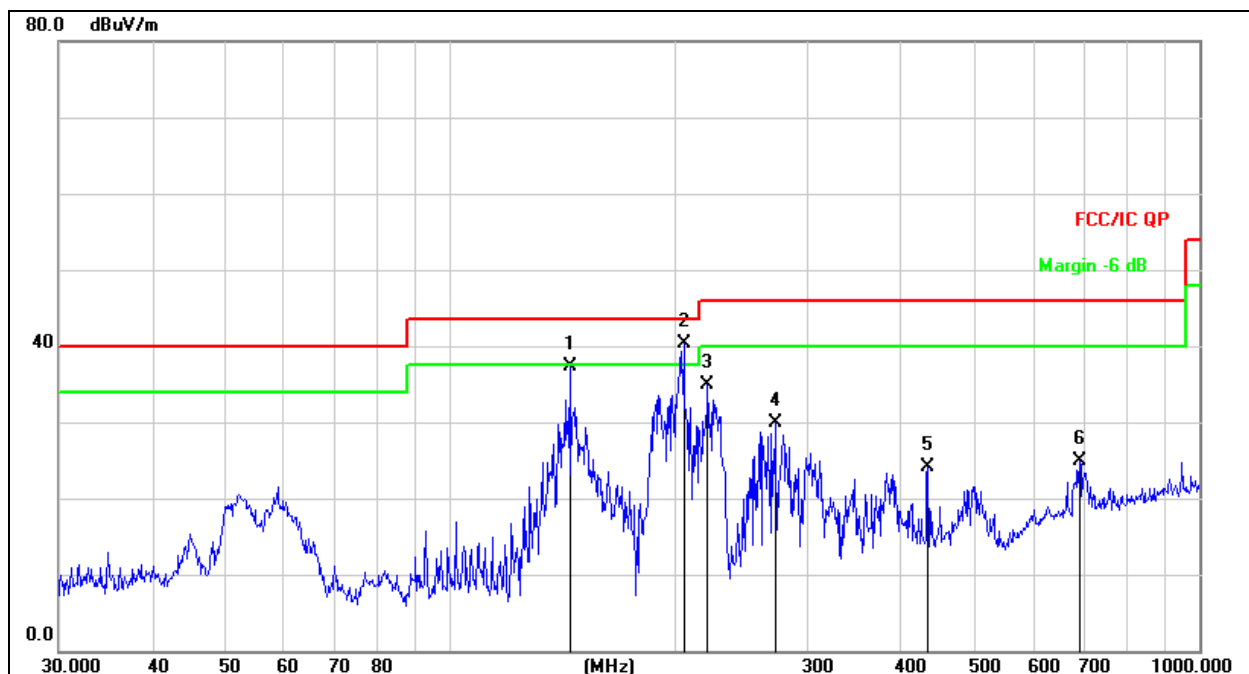


Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement=Reading Level+ Correct Factor
3. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dB/m	dB	
1		145.3506	44.78	-19.10	25.68	43.50	-17.82	QP
2		188.4125	53.75	-16.58	37.17	43.50	-6.33	QP
3	*	203.5228	52.86	-15.62	37.24	43.50	-6.26	QP
4		224.5193	48.42	-15.02	33.40	46.00	-12.60	QP
5		251.1804	47.41	-14.27	33.14	46.00	-12.86	QP
6		434.0651	39.22	-10.17	29.05	46.00	-16.95	QP

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 5	Remark:	N/A



Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement=Reading Level+ Correct Factor
3. Over=Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		144.3348	56.39	-19.03	37.36	43.50	-6.14	QP
2	*	204.9551	55.89	-15.58	40.31	43.50	-3.19	QP
3		220.6171	50.10	-15.13	34.97	46.00	-11.03	QP
4		271.3246	43.81	-13.84	29.97	46.00	-16.03	QP
5		434.0651	34.19	-10.17	24.02	46.00	-21.98	QP
6		691.9867	30.63	-5.78	24.85	46.00	-21.15	QP

802.11b

Polar (H/V)	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low channel:2412MHz							
V	4824.00	68.40	-19.95	48.45	74.00	-25.55	PK
V	4824.00	58.73	-19.95	38.78	54.00	-15.22	AV
V	7236.00	60.36	-14.14	46.22	74.00	-27.78	PK
V	7236.00	50.22	-14.14	36.08	54.00	-17.92	AV
H	4824.00	65.11	-19.95	45.16	74.00	-28.84	PK
H	4824.00	55.82	-19.95	35.87	54.00	-18.13	AV
H	7236.00	59.35	-14.14	45.21	74.00	-28.79	PK
H	7236.00	51.39	-14.14	37.25	54.00	-16.75	AV
Middle channel:2437MHz							
V	4874.00	65.10	-19.85	45.25	74.00	-28.75	PK
V	4874.00	58.98	-19.85	39.13	54.00	-14.87	AV
V	7311.00	54.83	-13.93	40.90	74.00	-33.10	PK
V	7311.00	46.48	-13.93	32.55	54.00	-21.45	AV
H	4874.00	60.83	-19.85	40.98	74.00	-33.02	PK
H	4874.00	50.34	-19.85	30.49	54.00	-23.51	AV
H	7311.00	52.20	-13.93	38.27	74.00	-35.73	PK
H	7311.00	44.39	-13.93	30.46	54.00	-23.54	AV
High channel:2462MHz							
V	4924.00	66.39	-19.75	46.64	74.00	-27.36	PK
V	4924.00	56.27	-19.75	36.52	54.00	-17.48	AV
V	7386.00	58.87	-13.72	45.15	74.00	-28.85	PK
V	7386.00	48.19	-13.72	34.47	54.00	-19.53	AV
H	4924.00	63.73	-19.75	43.98	74.00	-30.02	PK
H	4924.00	52.89	-19.75	33.14	54.00	-20.86	AV
H	7386.00	55.95	-13.72	42.23	74.00	-31.77	PK
H	7386.00	47.27	-13.72	33.55	54.00	-20.45	AV

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11g

Polar (H/V)	Frequency (MHz)	Reading Level (dBUV/m)	Correct Factor (dB)	Measurement (dBUV/m)	Limits (dBUV/m)	Over (dB)	Detector Type
Low channel:2412MHz							
V	4824.00	68.68	-19.95	48.73	74.00	-25.27	PK
V	4824.00	58.16	-19.95	38.21	54.00	-15.79	AV
V	7236.00	60.58	-14.14	46.44	74.00	-27.56	PK
V	7236.00	50.19	-14.14	36.05	54.00	-17.95	AV
H	4824.00	64.75	-19.95	44.80	74.00	-29.20	PK
H	4824.00	54.81	-19.95	34.86	54.00	-19.14	AV
H	7236.00	59.40	-14.14	45.26	74.00	-28.74	PK
H	7236.00	51.28	-14.14	37.14	54.00	-16.86	AV
Middle channel:2437MHz							
V	4874.00	66.51	-19.85	46.66	74.00	-27.34	PK
V	4874.00	59.88	-19.85	40.03	54.00	-13.97	AV
V	7311.00	55.60	-13.93	41.67	74.00	-32.33	PK
V	7311.00	47.24	-13.93	33.31	54.00	-20.69	AV
H	4874.00	65.39	-19.85	45.54	74.00	-28.46	PK
H	4874.00	55.46	-19.85	35.61	54.00	-18.39	AV
H	7311.00	52.71	-13.93	38.78	74.00	-35.22	PK
H	7311.00	44.95	-13.93	31.02	54.00	-22.98	AV
High channel:2462MHz							
V	4924.00	68.87	-19.75	49.12	74.00	-24.88	PK
V	4924.00	58.75	-19.75	39.00	54.00	-15.00	AV
V	7386.00	60.07	-13.72	46.35	74.00	-27.65	PK
V	7386.00	50.80	-13.72	37.08	54.00	-16.92	AV
H	4924.00	66.66	-19.75	46.91	74.00	-27.09	PK
H	4924.00	55.90	-19.75	36.15	54.00	-17.85	AV
H	7386.00	58.84	-13.72	45.12	74.00	-28.88	PK
H	7386.00	51.50	-13.72	37.78	54.00	-16.22	AV

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11n20

Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low channel:2412MHz							
V	4824.00	68.98	-19.95	49.03	74.00	-24.97	PK
V	4824.00	60.19	-19.95	40.24	54.00	-13.76	AV
V	7236.00	58.75	-14.14	44.61	74.00	-29.39	PK
V	7236.00	48.87	-14.14	34.73	54.00	-19.27	AV
H	4824.00	65.07	-19.95	45.12	74.00	-28.88	PK
H	4824.00	55.46	-19.95	35.51	54.00	-18.49	AV
H	7236.00	57.30	-14.14	43.16	74.00	-30.84	PK
H	7236.00	49.31	-14.14	35.17	54.00	-18.83	AV
Middle channel:2437MHz							
V	4874.00	66.25	-19.85	46.40	74.00	-27.60	PK
V	4874.00	59.35	-19.85	39.50	54.00	-14.50	AV
V	7311.00	57.82	-13.93	43.89	74.00	-30.11	PK
V	7311.00	48.29	-13.93	34.36	54.00	-19.64	AV
H	4874.00	64.45	-19.85	44.60	74.00	-29.40	PK
H	4874.00	54.72	-19.85	34.87	54.00	-19.13	AV
H	7311.00	56.79	-13.93	42.86	74.00	-31.14	PK
H	7311.00	49.67	-13.93	35.74	54.00	-18.26	AV
High channel:2462MHz							
V	4924.00	67.72	-19.75	47.97	74.00	-26.03	PK
V	4924.00	58.72	-19.75	38.97	54.00	-15.03	AV
V	7386.00	59.30	-13.72	45.58	74.00	-28.42	PK
V	7386.00	48.42	-13.72	34.70	54.00	-19.30	AV
H	4924.00	65.38	-19.75	45.63	74.00	-28.37	PK
H	4924.00	55.90	-19.75	36.15	54.00	-17.85	AV
H	7386.00	56.54	-13.72	42.82	74.00	-31.18	PK
H	7386.00	49.07	-13.72	35.35	54.00	-18.65	AV

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11n40

Polar (H/V)	Frequency (MHz)	Reading Level (dBUV/m)	Correct Factor (dB)	Measurement (dBUV/m)	Limits (dBUV/m)	Over (dB)	Detector Type
Low channel:2422MHz							
V	4844.00	70.24	-19.91	50.33	74.00	-23.67	PK
V	4844.00	59.37	-19.91	39.46	54.00	-14.54	AV
V	7266.00	63.24	-14.06	49.18	74.00	-24.82	PK
V	7266.00	53.20	-14.06	39.14	54.00	-14.86	AV
H	4844.00	67.24	-19.91	47.33	74.00	-26.67	PK
H	4844.00	58.18	-19.91	38.27	54.00	-15.73	AV
H	7266.00	61.53	-14.06	47.47	74.00	-26.53	PK
H	7266.00	53.43	-14.06	39.37	54.00	-14.63	AV
Middle channel:2437MHz							
V	4874.00	69.19	-19.85	49.34	74.00	-24.66	PK
V	4874.00	62.29	-19.85	42.44	54.00	-11.56	AV
V	7311.00	62.19	-13.93	48.26	74.00	-25.74	PK
V	7311.00	53.12	-13.93	39.19	54.00	-14.81	AV
H	4874.00	64.94	-19.85	45.09	74.00	-28.91	PK
H	4874.00	54.19	-19.85	34.34	54.00	-19.66	AV
H	7311.00	60.24	-13.93	46.31	74.00	-27.69	PK
H	7311.00	52.75	-13.93	38.82	54.00	-15.18	AV
High channel:2452MHz							
V	4904.00	71.00	-19.79	51.21	74.00	-22.79	PK
V	4904.00	60.62	-19.79	40.83	54.00	-13.17	AV
V	7356.00	64.97	-13.80	51.17	74.00	-22.83	PK
V	7356.00	54.68	-13.80	40.88	54.00	-13.12	AV
H	4904.00	69.87	-19.79	50.08	74.00	-23.92	PK
H	4904.00	60.85	-19.79	41.06	54.00	-12.94	AV
H	7356.00	62.83	-13.80	49.03	74.00	-24.97	PK
H	7356.00	54.02	-13.80	40.22	54.00	-13.78	AV

Remark:

1.Emission Level = Meter Reading + Factor,

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

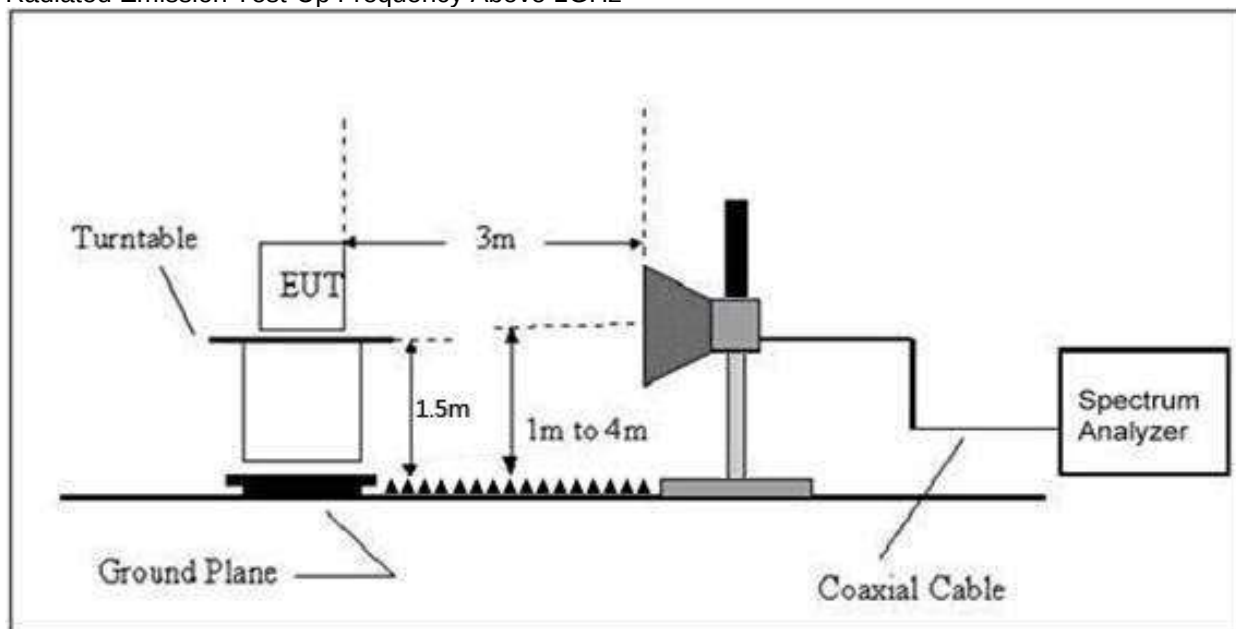
3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	
13.36-13.41			

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3)Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test Procedure

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Above 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

8.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

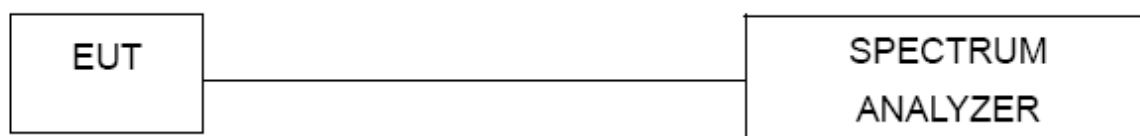
8.5 Test Result

	Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)		Result
					PK	PK	AV	
802.11b	Low Channel 2412MHz							
	H	2390.00	73.27	-25.43	47.84	74.00	54.00	PASS
	H	2400.00	75.39	-25.40	49.99	74.00	54.00	PASS
	V	2390.00	73.06	-25.43	47.63	74.00	54.00	PASS
	V	2400.00	75.24	-25.40	49.84	74.00	54.00	PASS
	High Channel 2462MHz							
	H	2483.50	71.89	-25.15	46.74	74.00	54.00	PASS
	H	2500.00	71.18	-25.10	46.08	74.00	54.00	PASS
	V	2483.50	73.51	-25.15	48.36	74.00	54.00	PASS
	V	2500.00	72.49	-25.10	47.39	74.00	54.00	PASS
802.11g	Low Channel 2412MHz							
	H	2390.00	72.94	-25.43	47.51	74.00	54.00	PASS
	H	2400.00	76.44	-25.40	51.04	74.00	54.00	PASS
	V	2390.00	72.96	-25.43	47.53	74.00	54.00	PASS
	V	2400.00	75.07	-25.40	49.67	74.00	54.00	PASS
	High Channel 2462MHz							
	H	2483.50	73.39	-25.15	48.24	74.00	54.00	PASS
	H	2500.00	69.41	-25.10	44.31	74.00	54.00	PASS
	V	2483.50	72.14	-25.15	46.99	74.00	54.00	PASS
	V	2500.00	69.82	-25.10	44.72	74.00	54.00	PASS
Remark:								
1. Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Emission Level – Limit								
2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.								
3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB								
4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.								

	Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)		Result
					PK	PK	AV	
802.11 n20	Low Channel 2412MHz							
	H	2390.00	72.68	-25.43	47.25	74.00	54.00	PASS
	H	2400.00	76.01	-25.40	50.61	74.00	54.00	PASS
	V	2390.00	71.83	-25.43	46.40	74.00	54.00	PASS
	V	2400.00	74.86	-25.40	49.46	74.00	54.00	PASS
	High Channel 2462MHz							
	H	2483.50	71.19	-25.15	46.04	74.00	54.00	PASS
	H	2500.00	69.18	-25.10	44.08	74.00	54.00	PASS
	V	2483.50	71.95	-25.15	46.80	74.00	54.00	PASS
	V	2500.00	68.98	-25.10	43.88	74.00	54.00	PASS
802.11 n40	Low Channel 2422MHz							
	H	2390.00	72.35	-25.43	46.92	74.00	54.00	PASS
	H	2400.00	75.68	-25.40	50.28	74.00	54.00	PASS
	V	2390.00	72.09	-25.43	46.66	74.00	54.00	PASS
	V	2400.00	74.85	-25.40	49.45	74.00	54.00	PASS
	High Channel 2452MHz							
	H	2483.50	71.18	-25.15	46.03	74.00	54.00	PASS
	H	2500.00	69.27	-25.10	44.17	74.00	54.00	PASS
	V	2483.50	72.57	-25.15	47.42	74.00	54.00	PASS
	V	2500.00	71.00	-25.10	45.90	74.00	54.00	PASS
Remark: 1. Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Emission Level – Limit 2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit. 3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.								

9. Power Spectral Density Test

9.1 Block Diagram Of Test Setup



9.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

9.3 Test Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

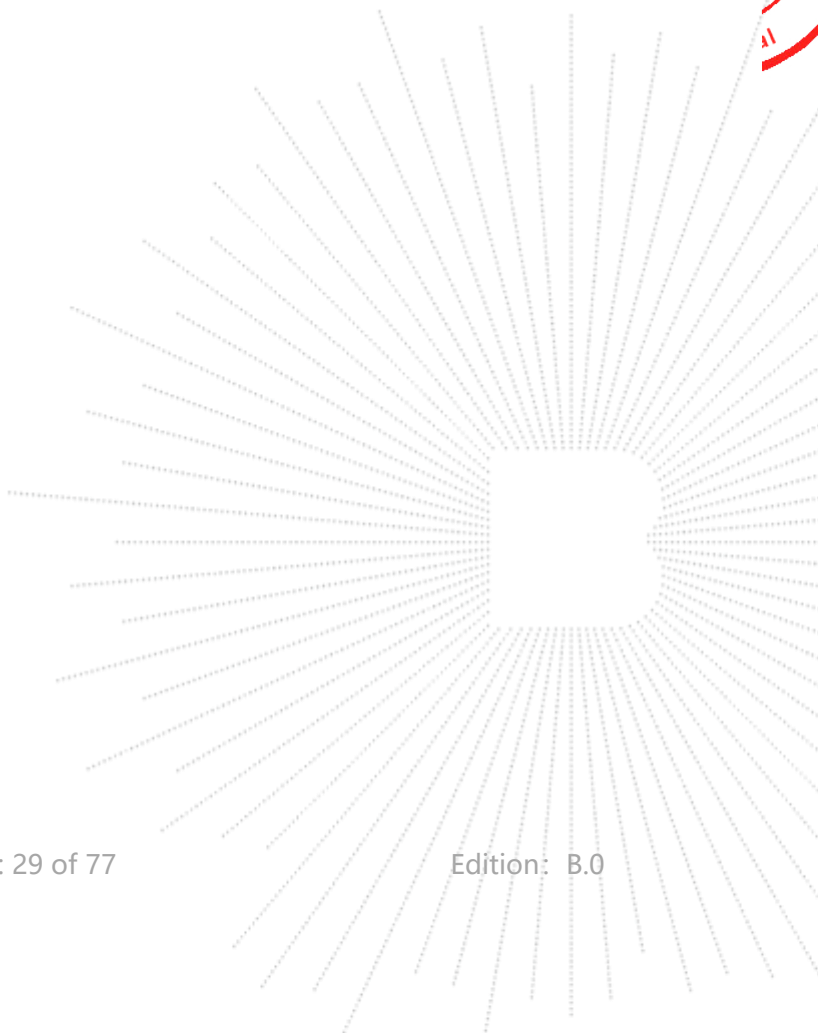
9.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

9.5 Test Result

Condition	Mode	Frequency (MHz)	Power Spectral Density (dBm/10kHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-6.78	-12.01	8	Pass
NVNT	b	2437	-7.38	-12.61	8	Pass
NVNT	b	2462	-7.7	-12.93	8	Pass
NVNT	g	2412	-10.88	-16.11	8	Pass
NVNT	g	2437	-11.34	-16.57	8	Pass
NVNT	g	2462	-11.96	-17.19	8	Pass
NVNT	n20	2412	-10.49	-15.72	8	Pass
NVNT	n20	2437	-11.11	-16.34	8	Pass
NVNT	n20	2462	-11.81	-17.04	8	Pass
NVNT	n40	2422	-12.59	-17.82	8	Pass
NVNT	n40	2437	-13.81	-19.04	8	Pass
NVNT	n40	2452	-13.59	-18.82	8	Pass
Note: Correction Factor = $10\log(3\text{kHz}/\text{RBW in measurement}) = -5.23$ Power Spectral Density(dBm/3kHz)= Power Spectral Density(dBm/10kHz) + Correction Factor						

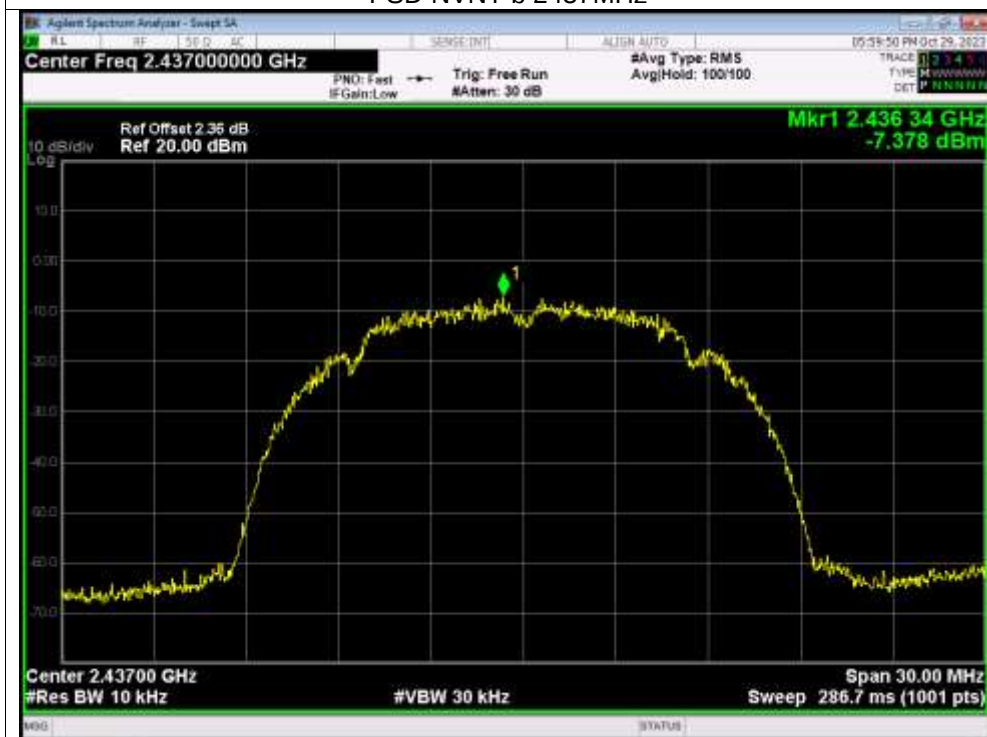


Test Graphs

PSD NVNT b 2412MHz



PSD NVNT b 2437MHz

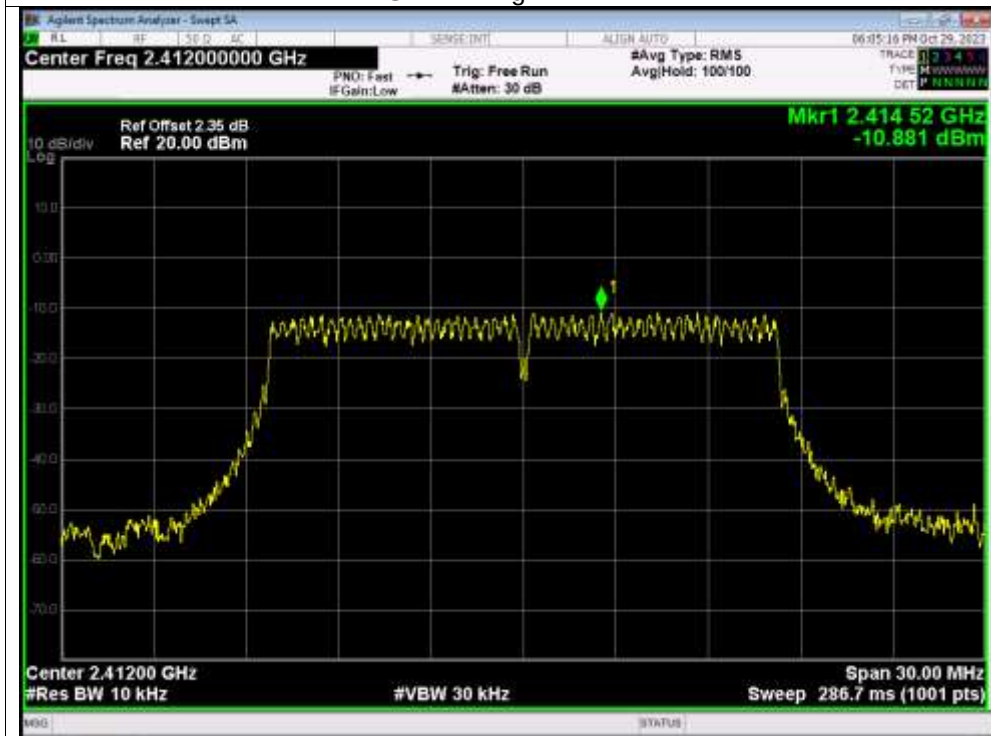


CO. LTD.

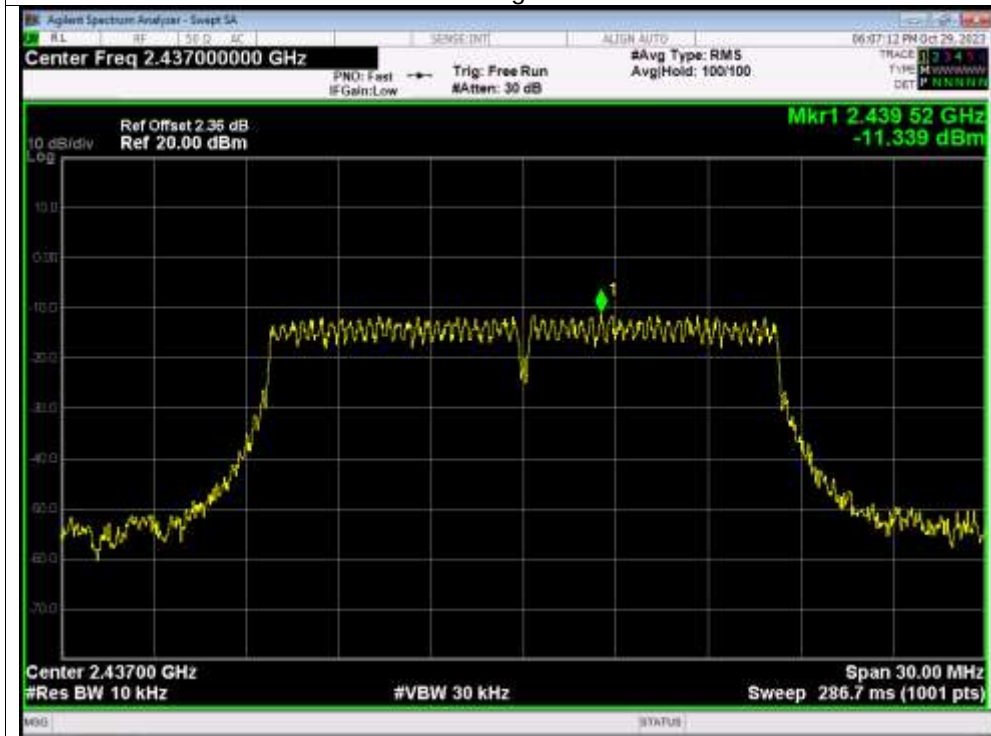
PSD NVNT b 2462MHz



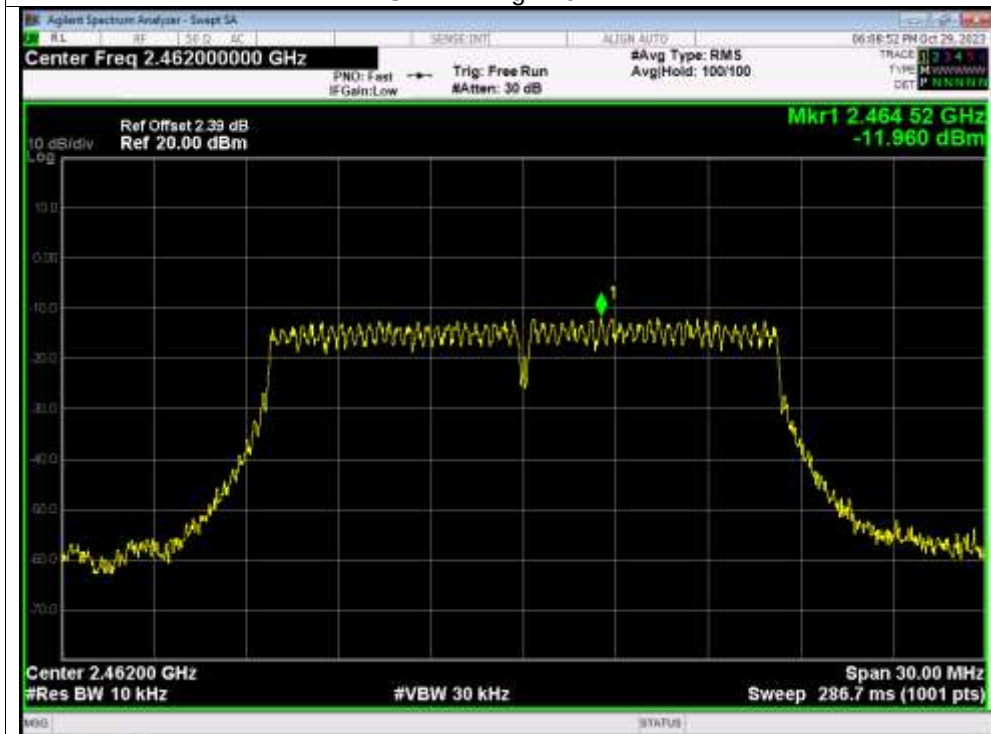
PSD NVNT g 2412MHz



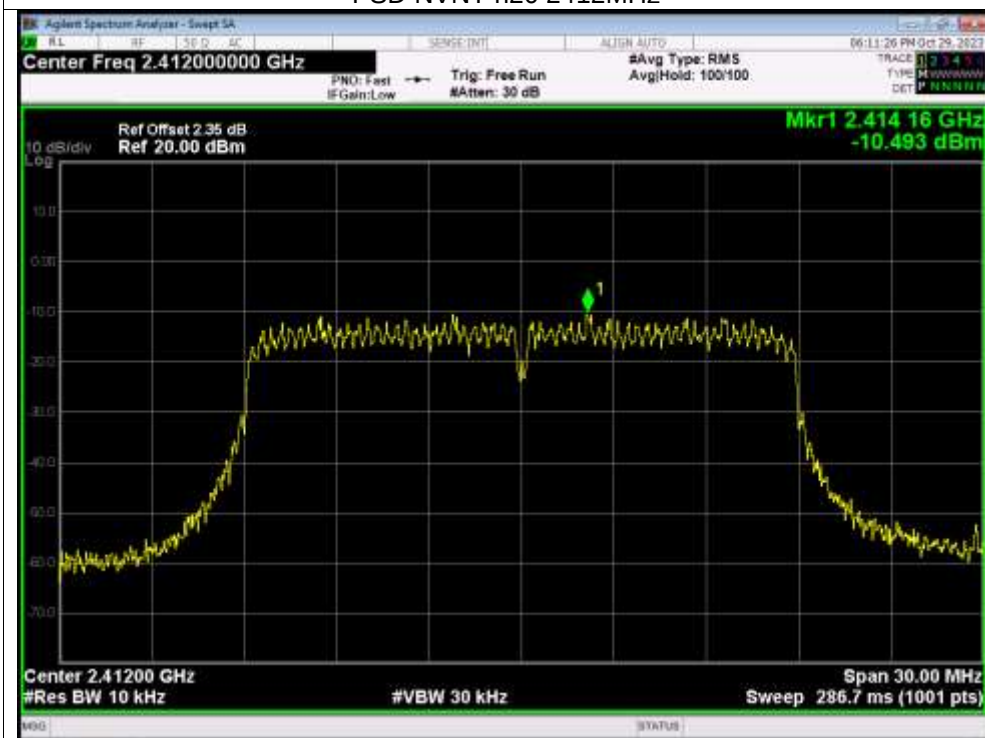
PSD NVNT g 2437MHz



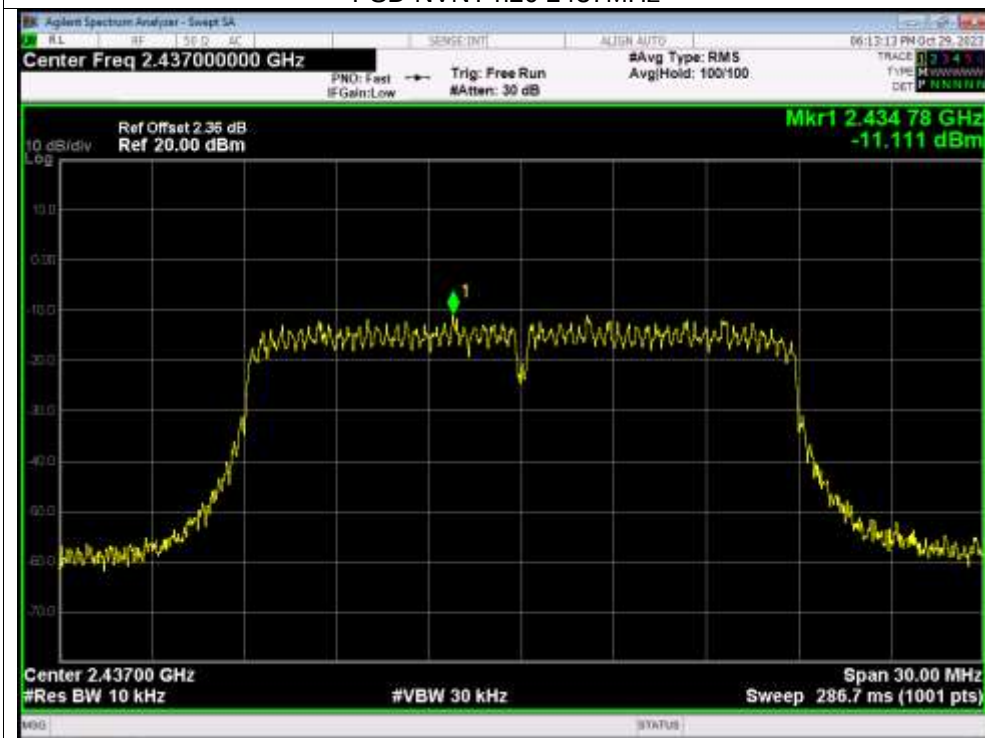
PSD NVNT g 2462MHz



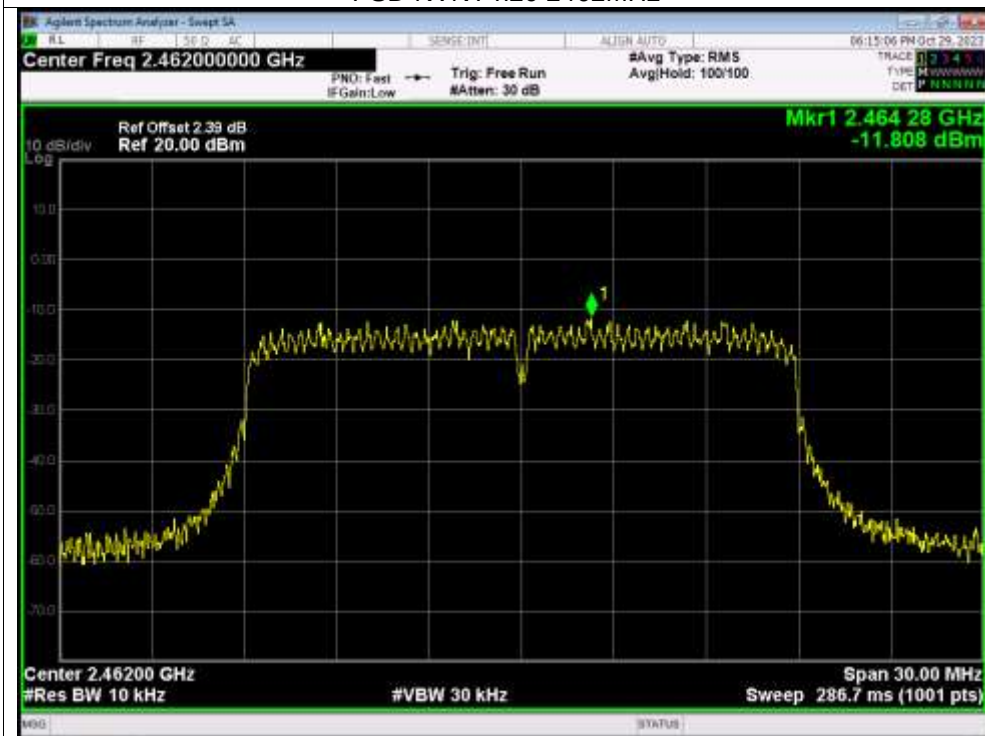
PSD NVNT n20 2412MHz



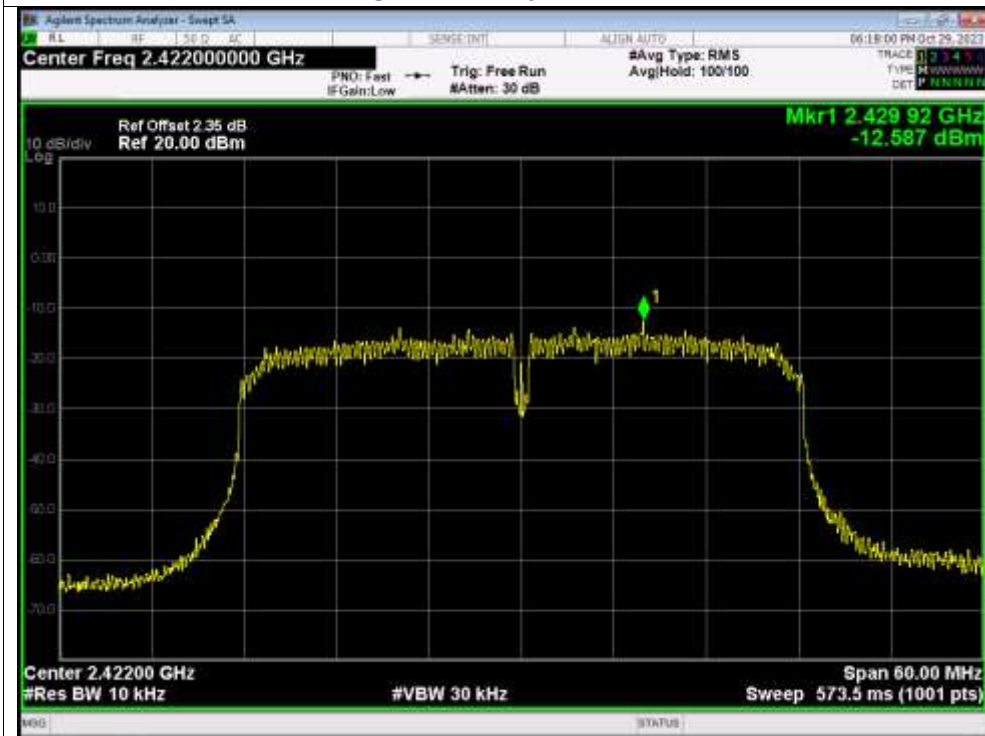
PSD NVNT n20 2437MHz



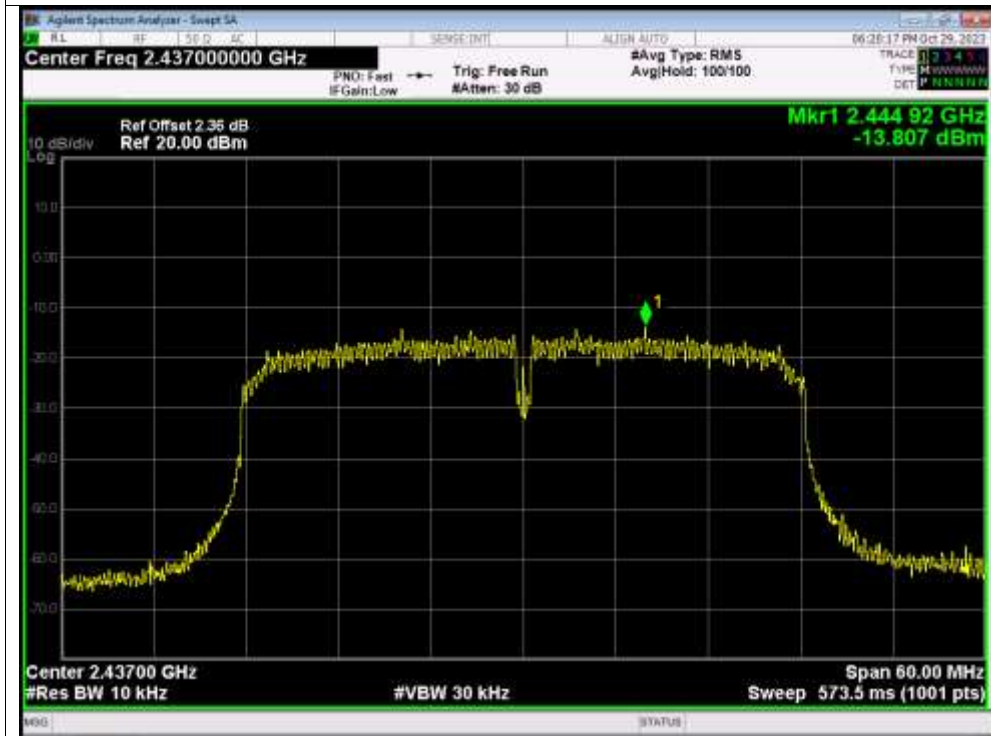
PSD NVNT n20 2462MHz



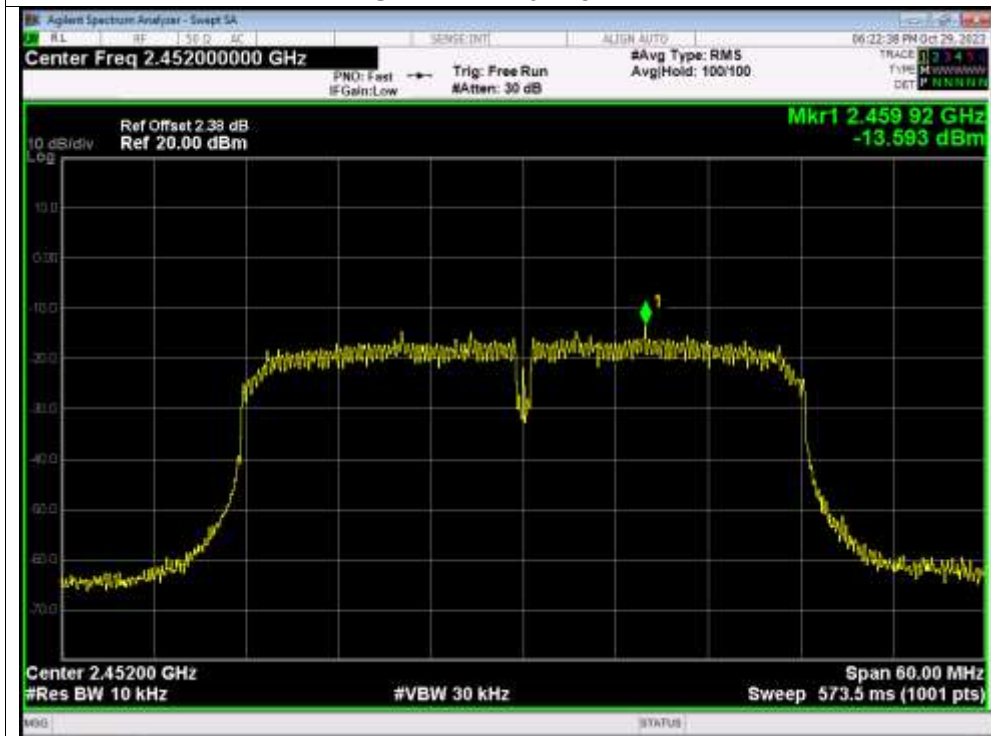
PSD NVNT n40 2422MHz



PSD NVNT n40 2437MHz



PSD NVNT n40 2452MHz



10. Bandwidth Test

10.1 Block Diagram Of Test Setup



10.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

10.3 Test Procedure

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

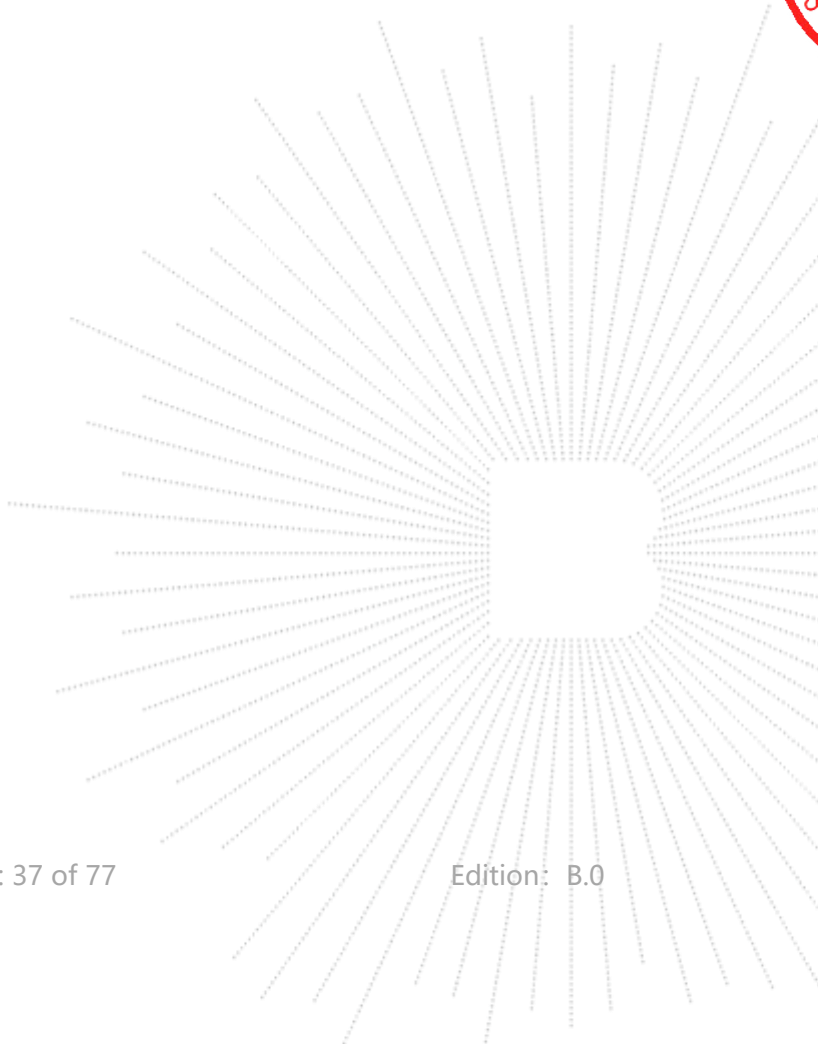
10.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

10.5 Test Result

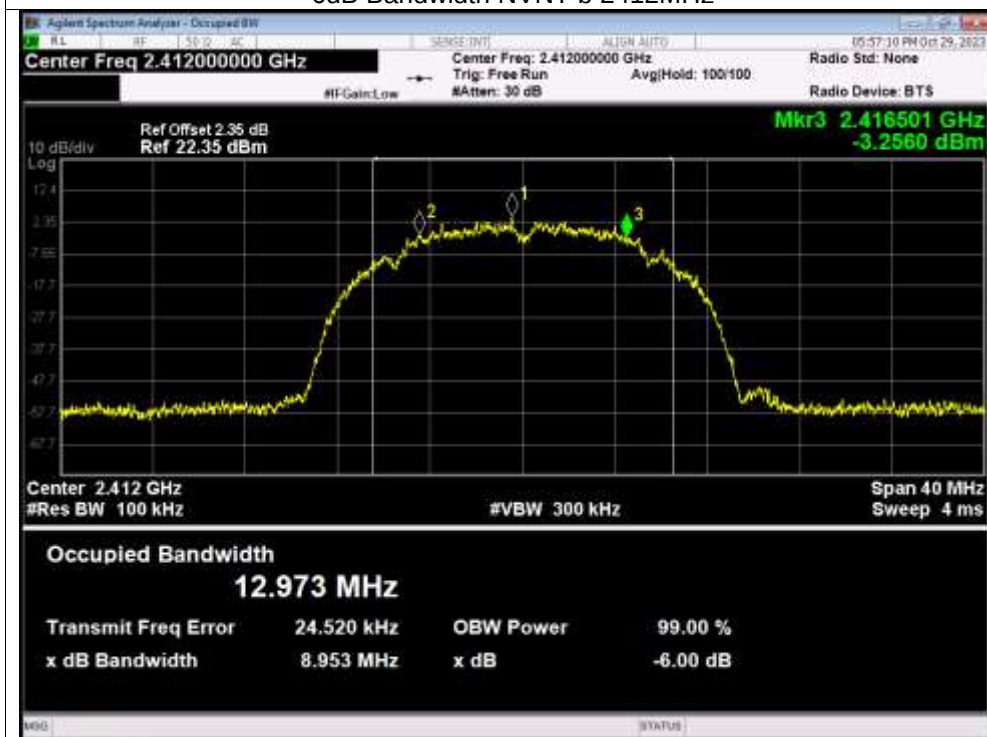
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	8.953	0.5	Pass
NVNT	b	2437	9.551	0.5	Pass
NVNT	b	2462	9.03	0.5	Pass
NVNT	g	2412	16.545	0.5	Pass
NVNT	g	2437	16.524	0.5	Pass
NVNT	g	2462	16.48	0.5	Pass
NVNT	n20	2412	17.401	0.5	Pass
NVNT	n20	2437	17.332	0.5	Pass
NVNT	n20	2462	17.328	0.5	Pass
NVNT	n40	2422	34.14	0.5	Pass
NVNT	n40	2437	33.662	0.5	Pass
NVNT	n40	2452	33.776	0.5	Pass



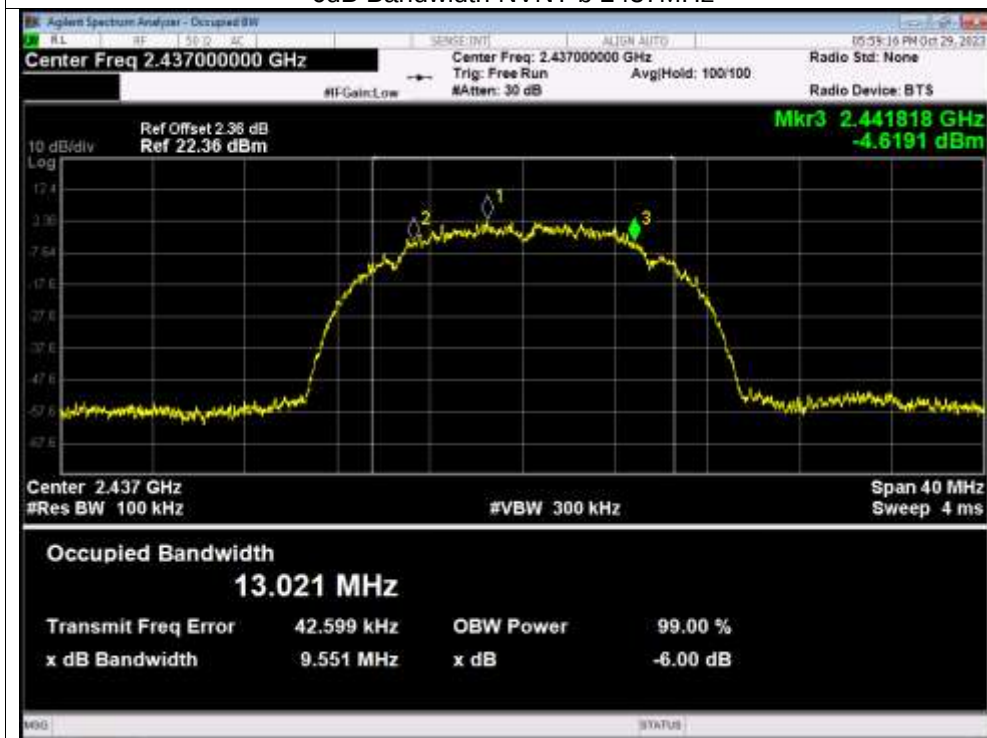
-6dB Bandwidth

Test Graphs

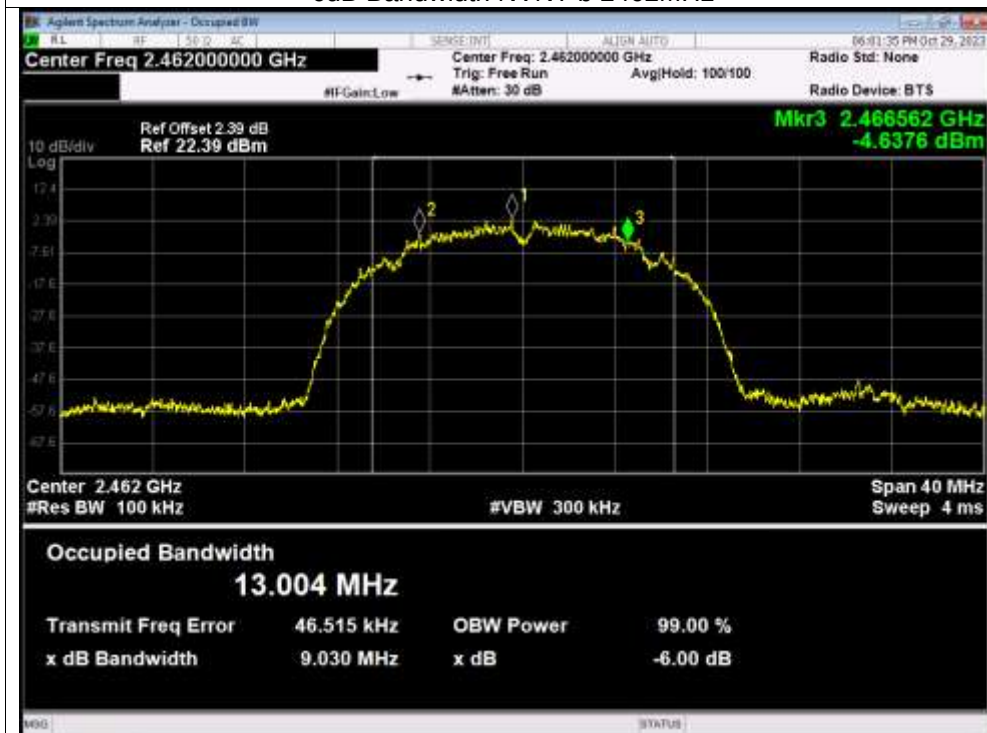
-6dB Bandwidth NVNT b 2412MHz



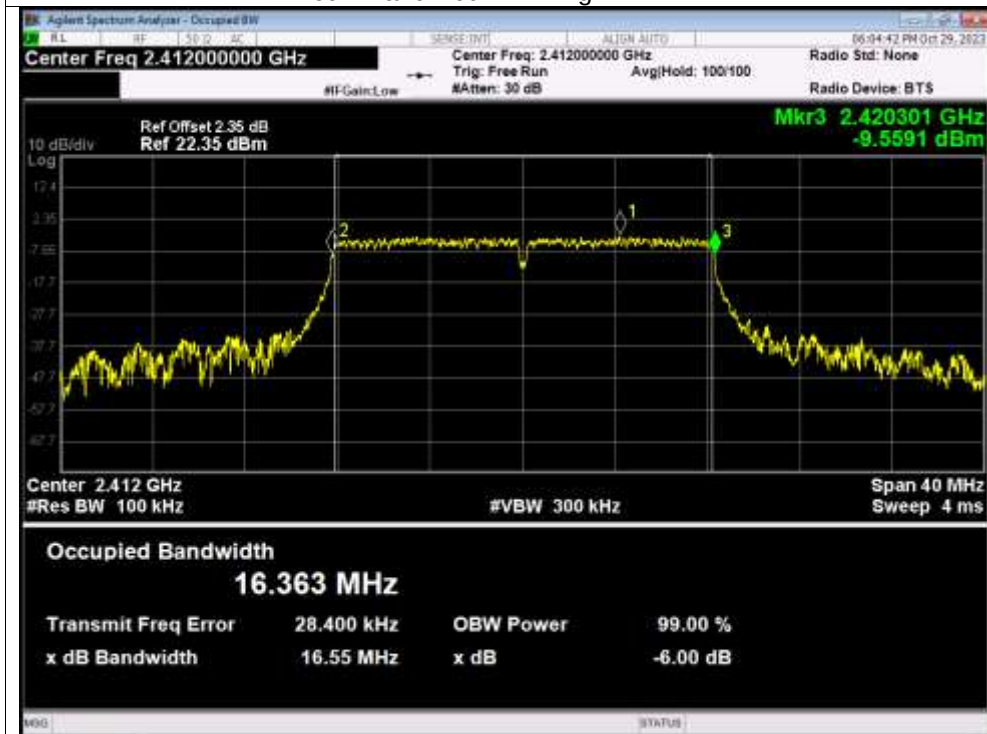
-6dB Bandwidth NVNT b 2437MHz



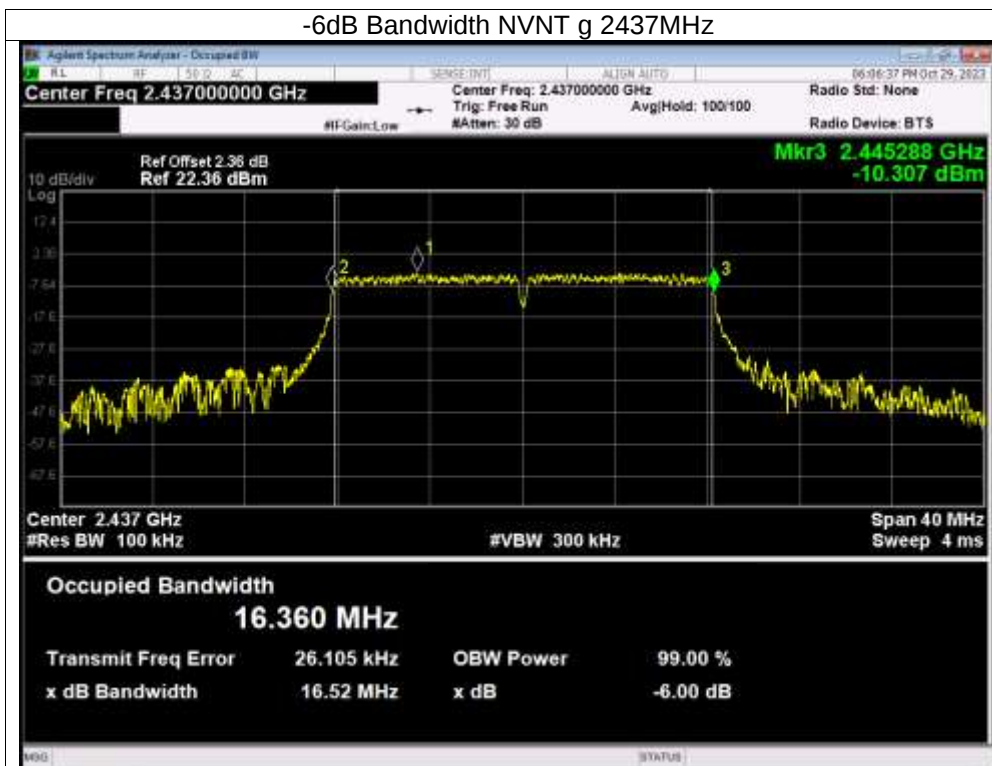
-6dB Bandwidth NVNT b 2462MHz



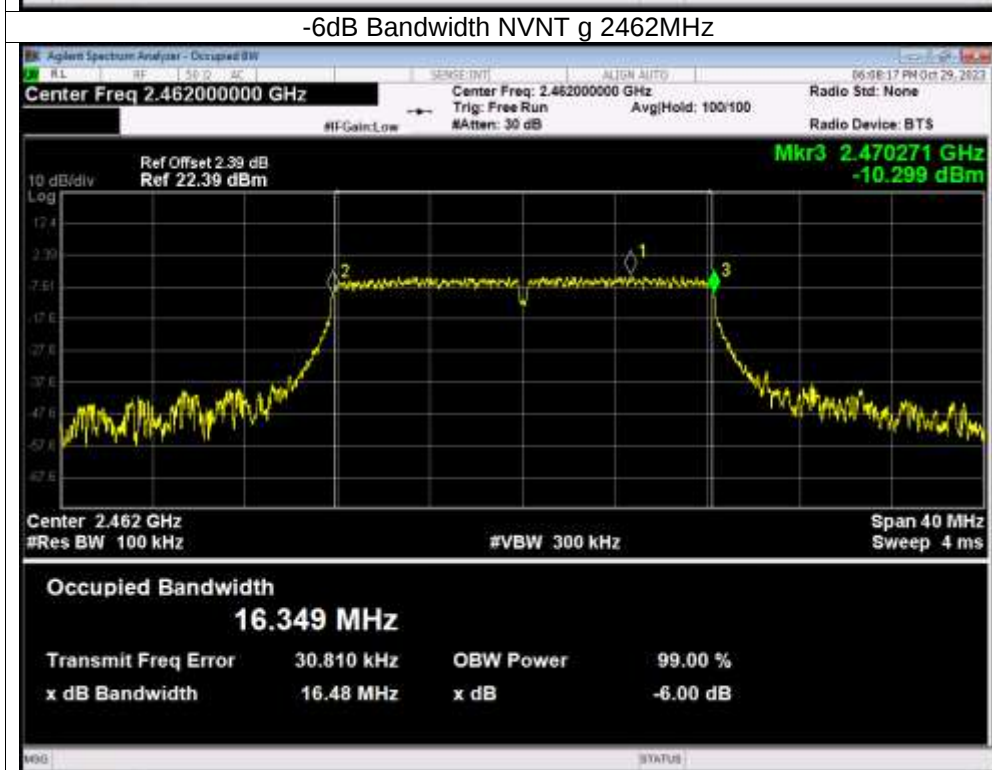
-6dB Bandwidth NVNT g 2412MHz



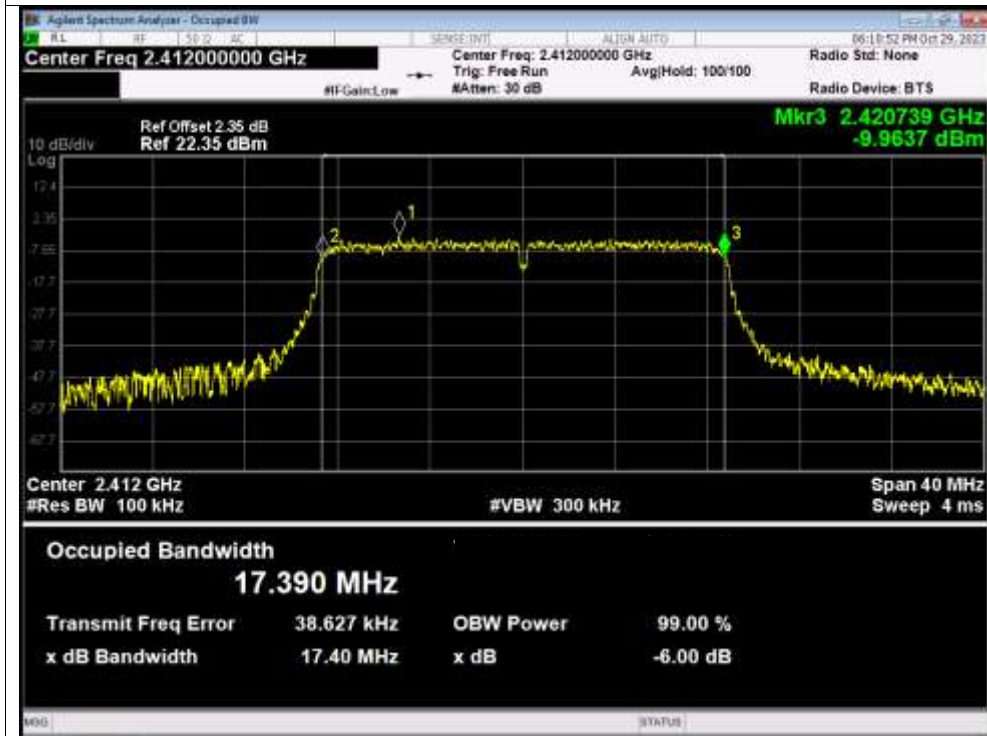
-6dB Bandwidth NVNT g 2437MHz



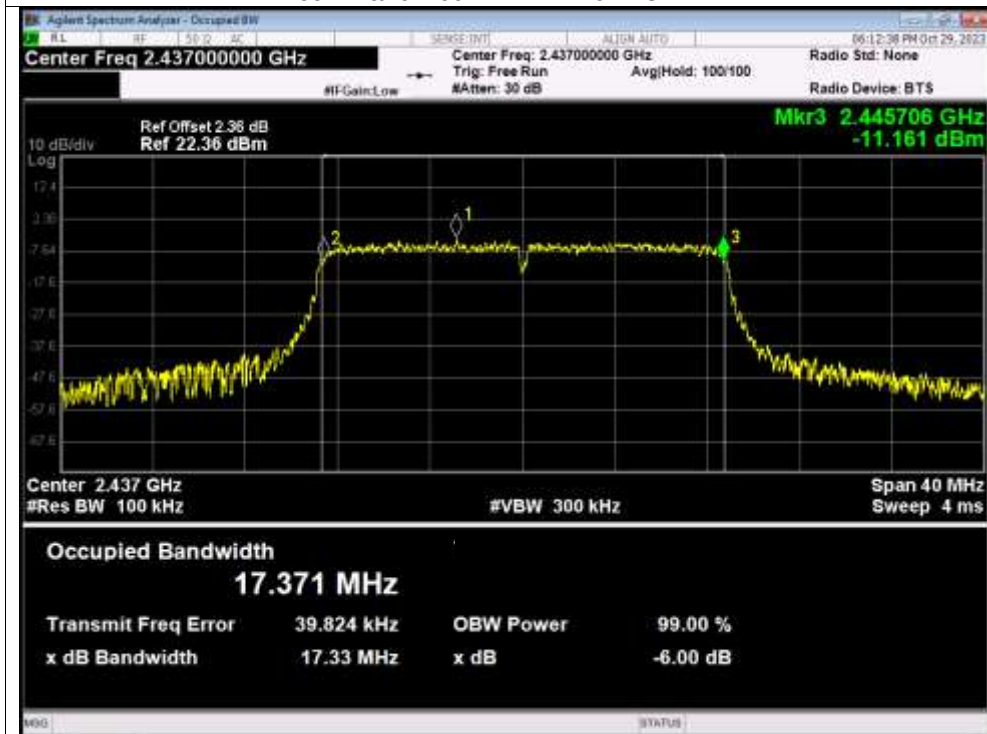
-6dB Bandwidth NVNT g 2462MHz



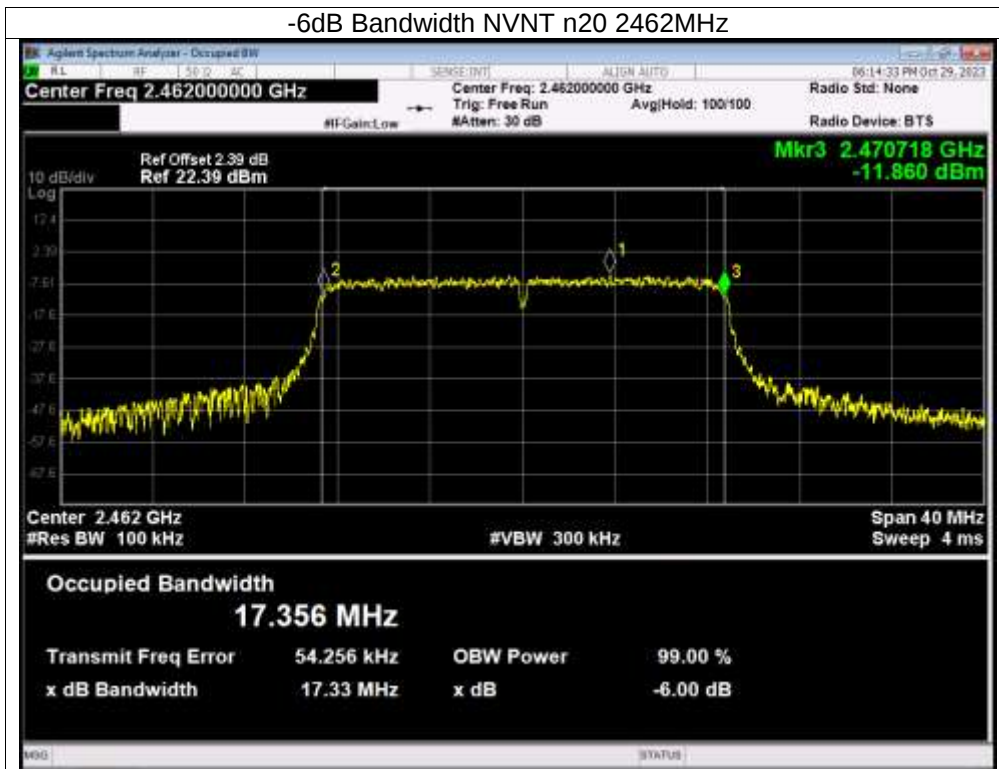
-6dB Bandwidth NVNT n20 2412MHz



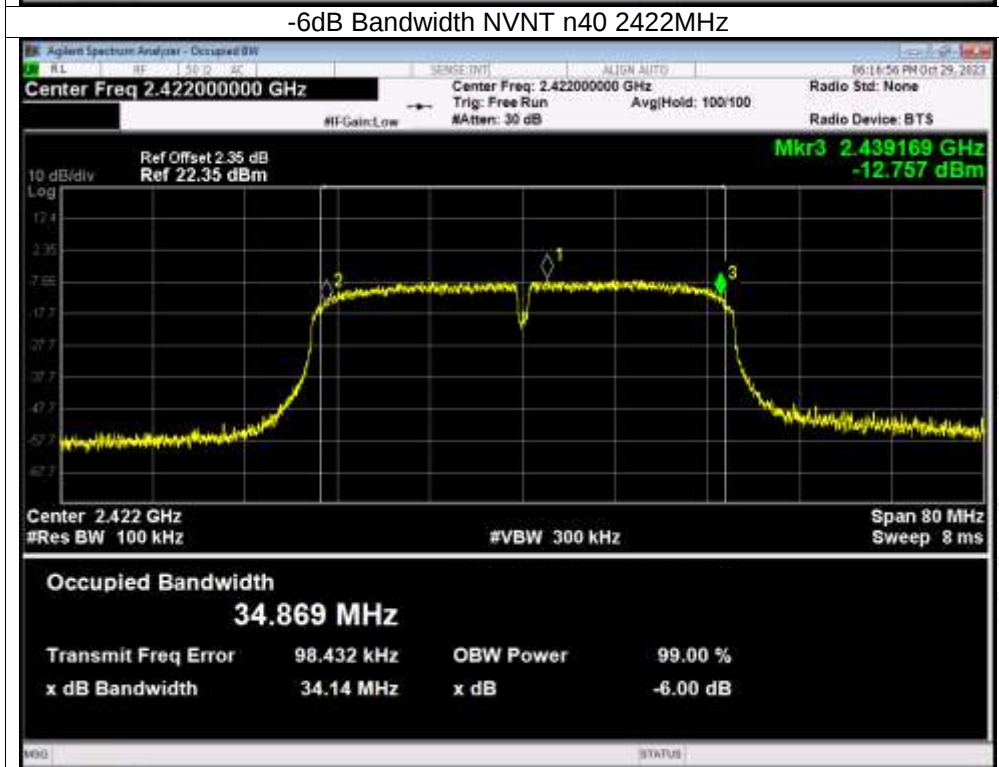
-6dB Bandwidth NVNT n20 2437MHz



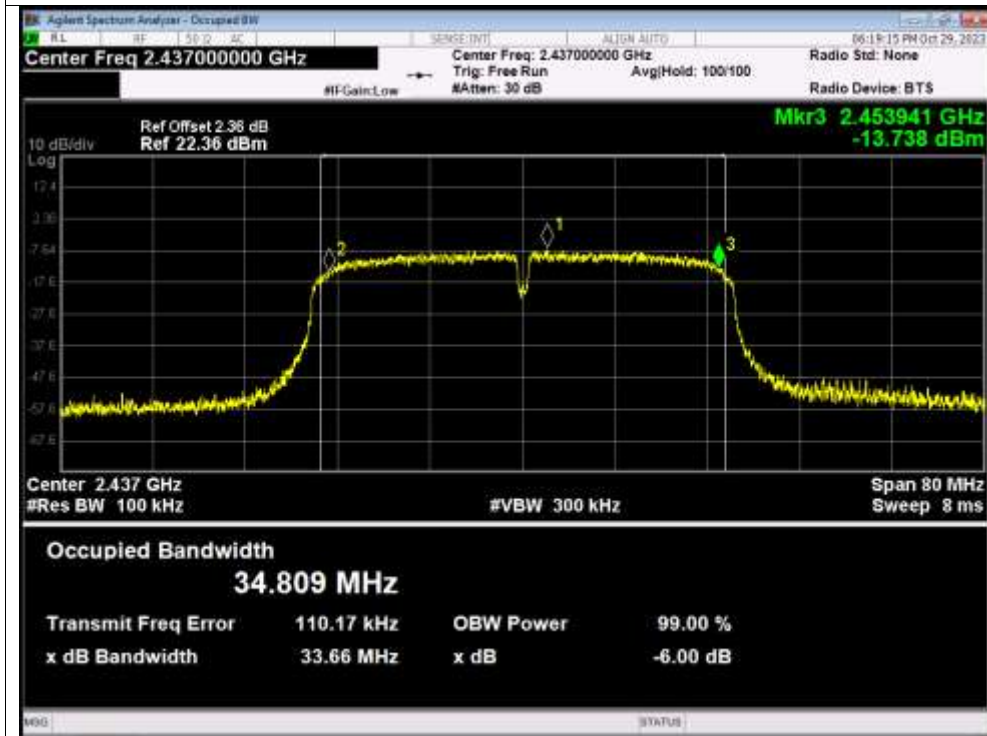
-6dB Bandwidth NVNT n20 2462MHz



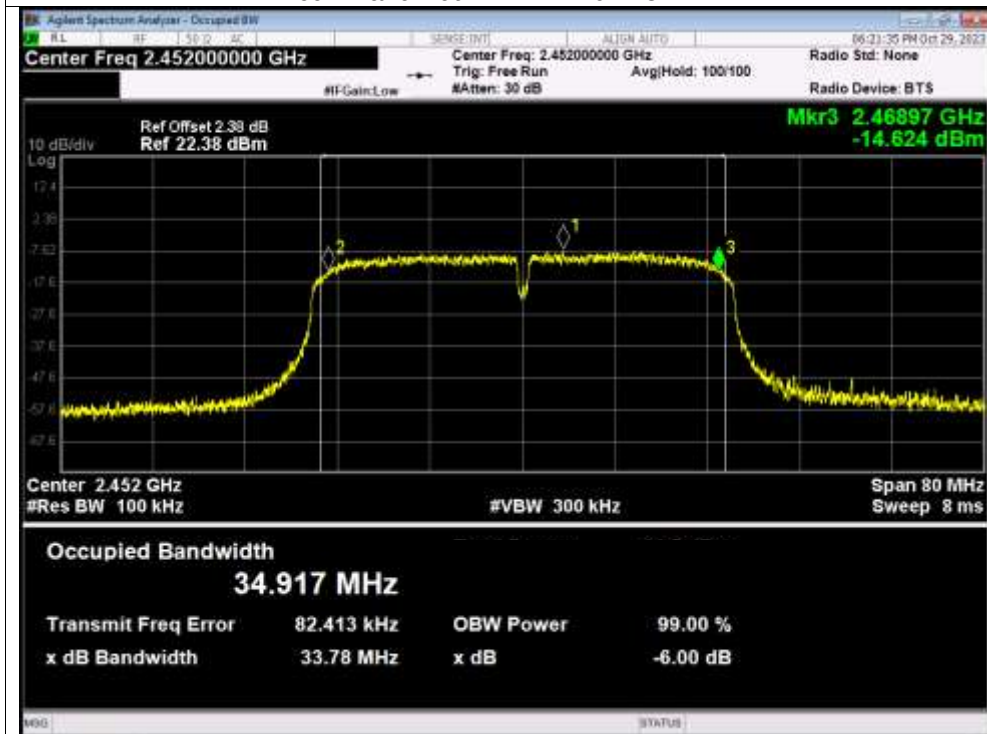
-6dB Bandwidth NVNT n40 2422MHz



-6dB Bandwidth NVNT n40 2437MHz



-6dB Bandwidth NVNT n40 2452MHz



11. Peak Output Power Test

11.1 Block Diagram Of Test Setup



11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

11.3 Test Procedure

- The EUT was directly connected to the Power meter

11.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

11.5 Test Result

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 3V

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	12.21	30	Pass
b	2437	11.89	30	Pass
b	2462	11.1	30	Pass
g	2412	11.29	30	Pass
g	2437	10.64	30	Pass
g	2462	10.04	30	Pass
n20	2412	10.52	30	Pass
n20	2437	9.84	30	Pass
n20	2462	9.32	30	Pass
n40	2422	9.78	30	Pass
n40	2437	9.1	30	Pass
n40	2452	8.91	30	Pass

TC
3C
PPR
Report

12. 100 KHz Bandwidth Of Frequency Band Edge

12.1 Block Diagram Of Test Setup



12.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

12.3 Test Procedure

Using the following spectrum analyzer setting:

- a) Set the RBW = 100KHz.
- b) Set the VBW = 300KHz.
- c) Sweep time = auto couple.
- d) Detector function = peak.
- e) Trace mode = max hold.
- f) Allow trace to fully stabilize..

12.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

12.5 Test Result

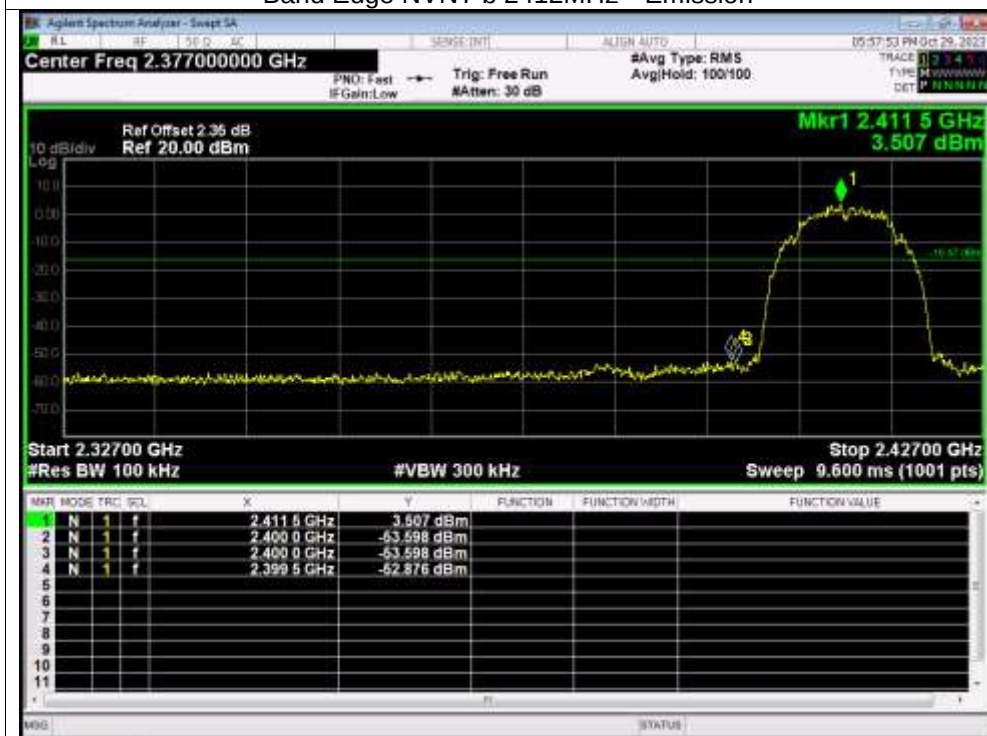
Band Edge

Test Graphs

Band Edge NVNT b 2412MHz



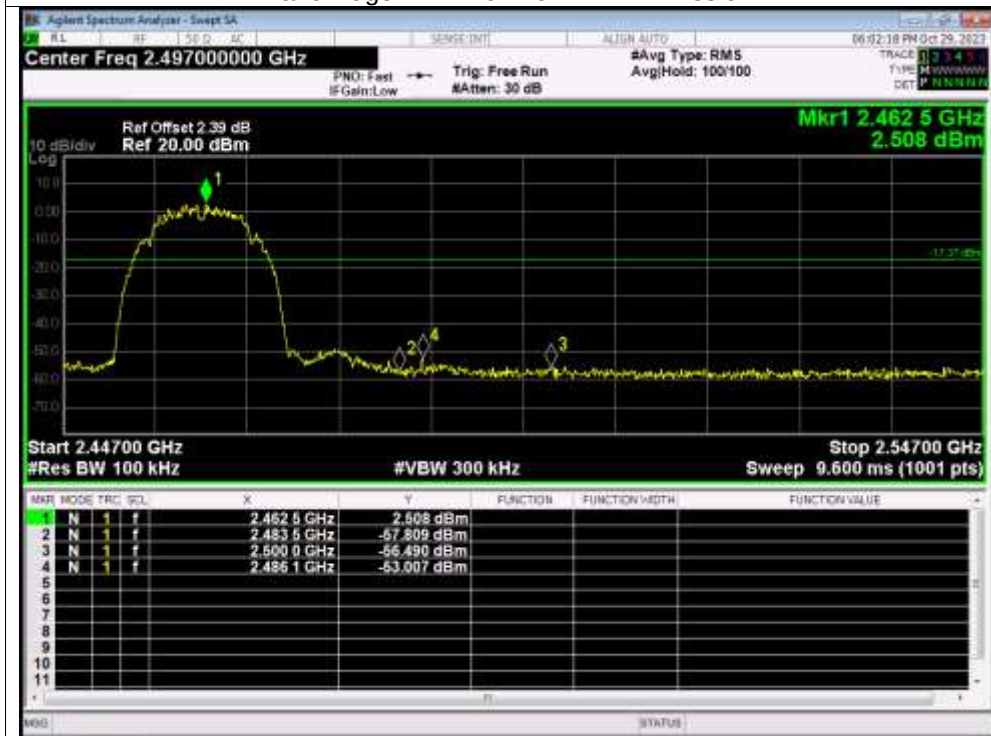
Band Edge NVNT b 2412MHz Emission



Band Edge NVNT b 2462MHz



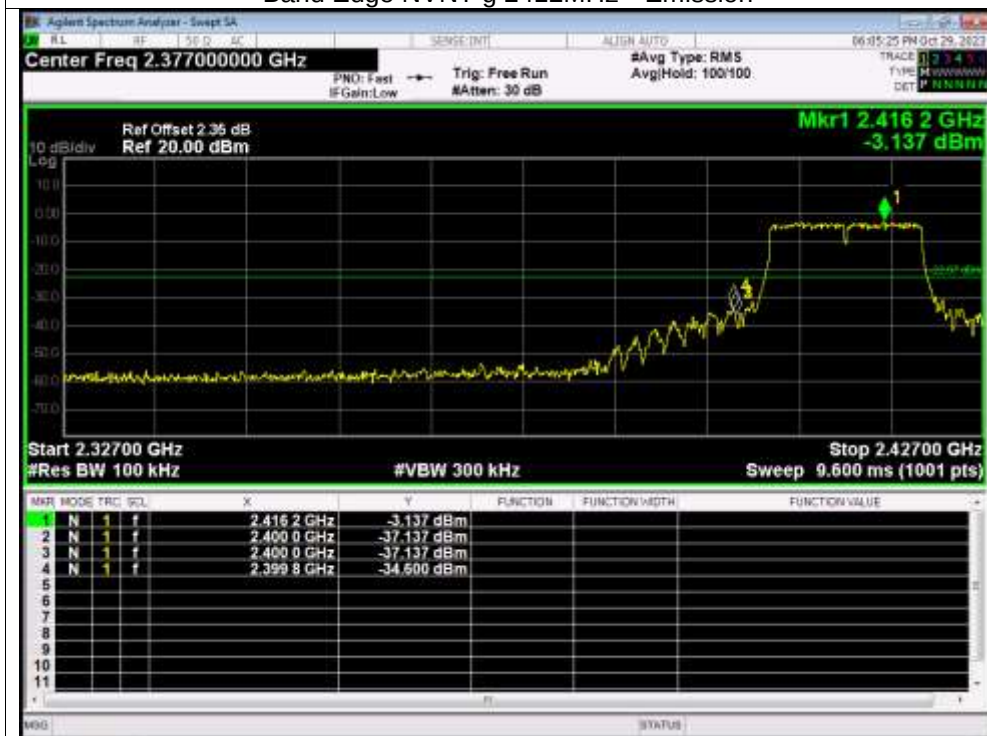
Band Edge NVNT b 2462MHz Emission



Band Edge NVNT g 2412MHz



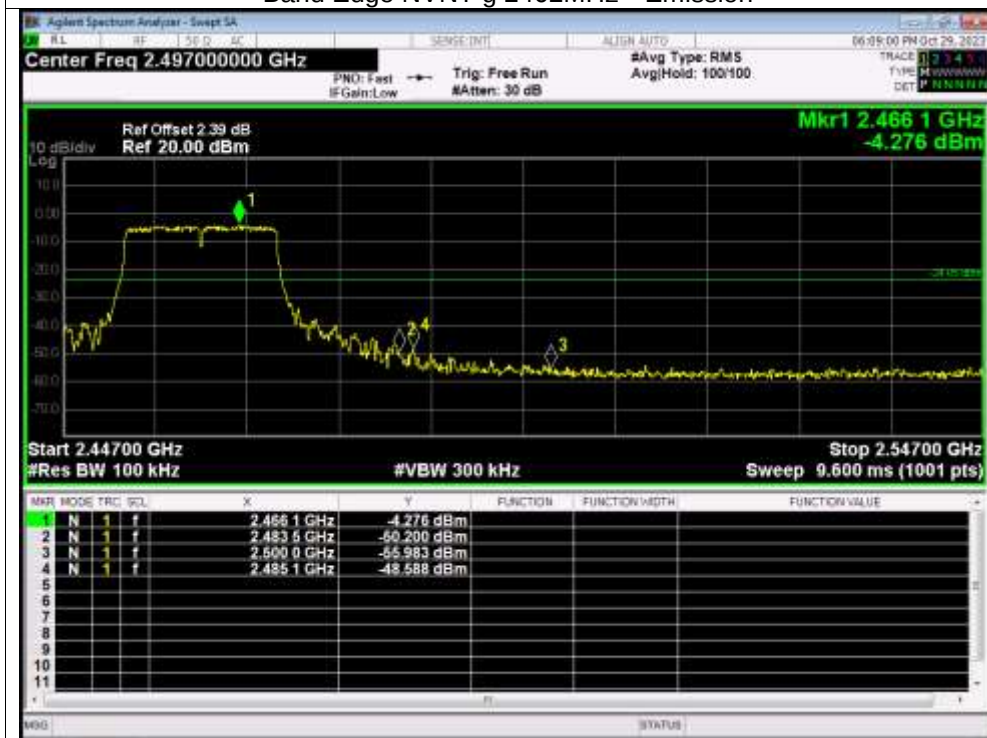
Band Edge NVNT g 2412MHz Emission



Band Edge NVNT g 2462MHz



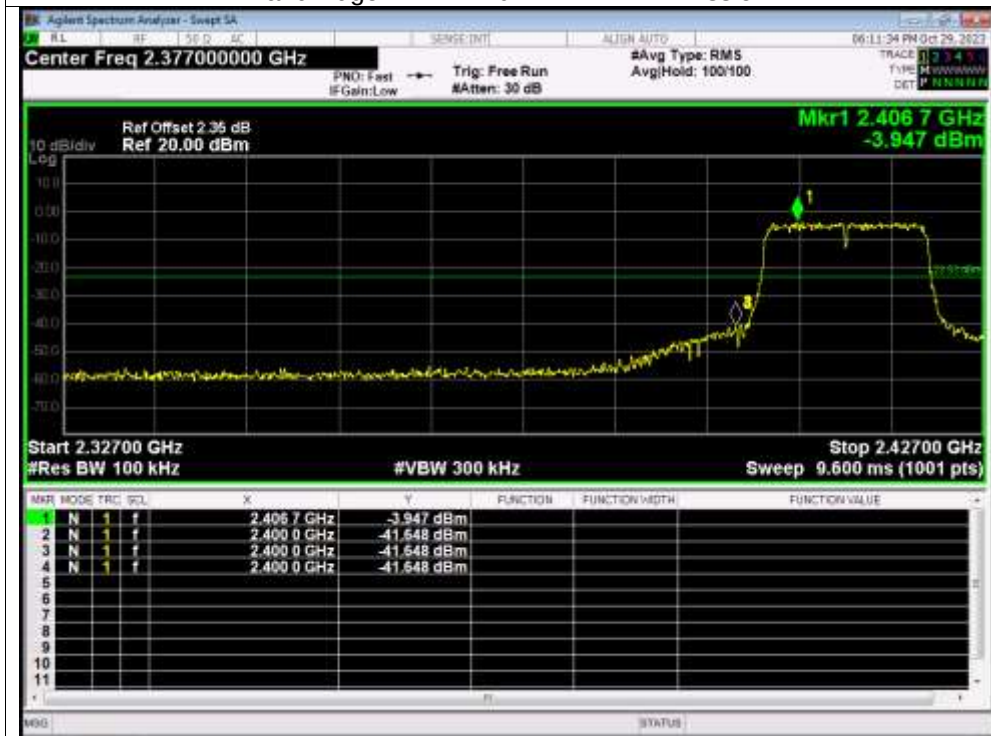
Band Edge NVNT g 2462MHz Emission



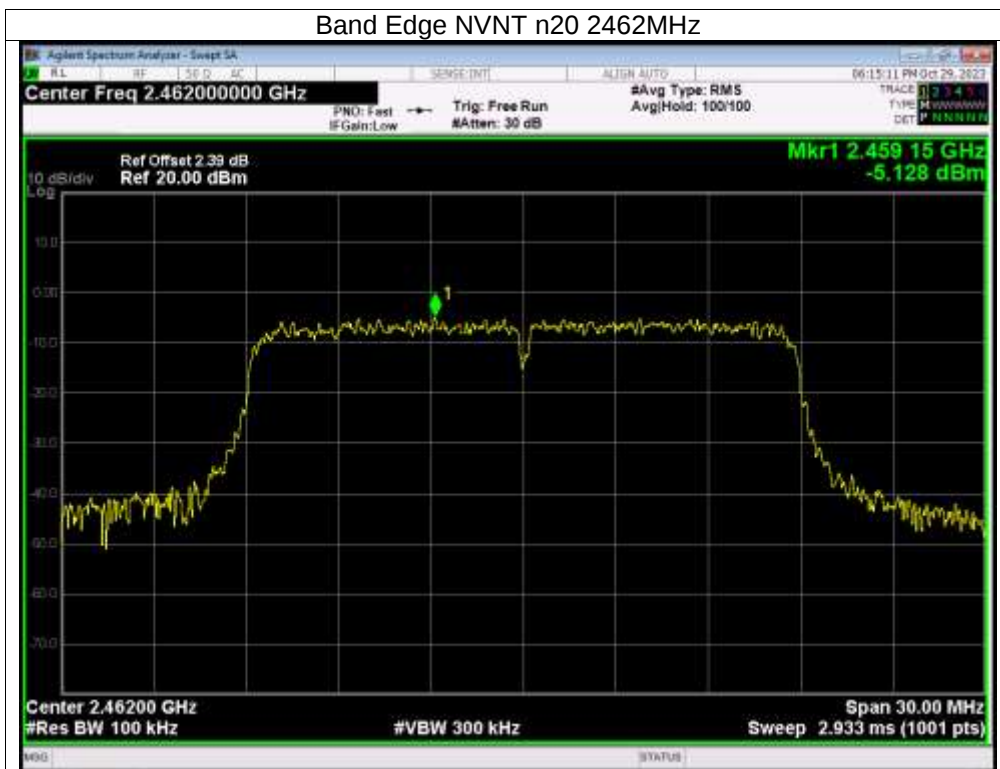
Band Edge NVNT n20 2412MHz



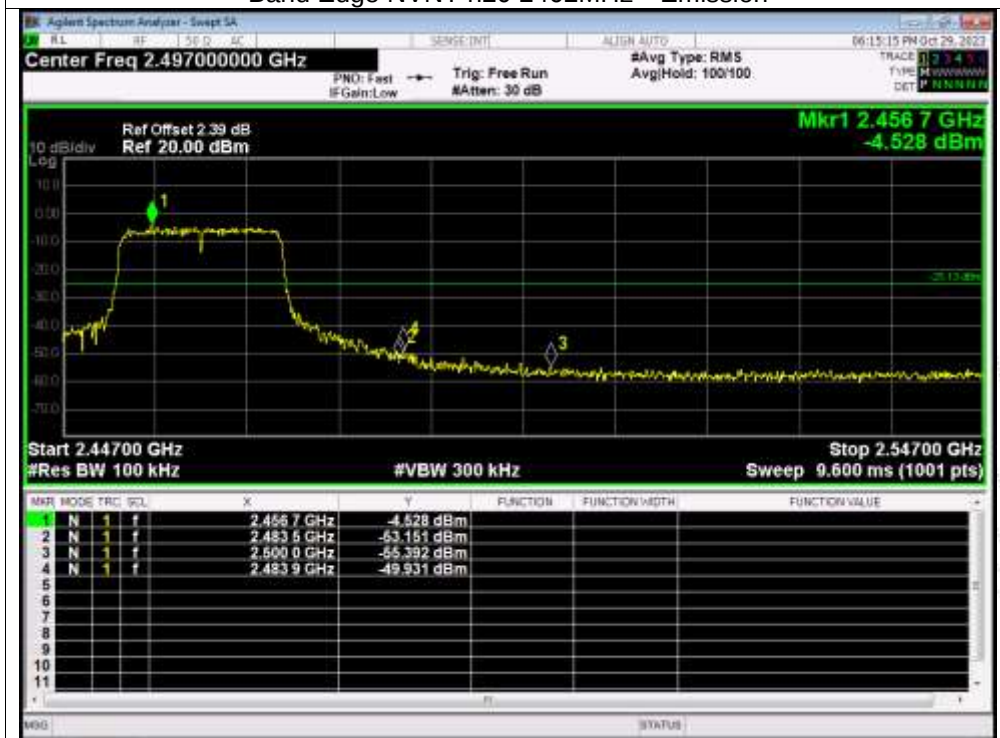
Band Edge NVNT n20 2412MHz Emission



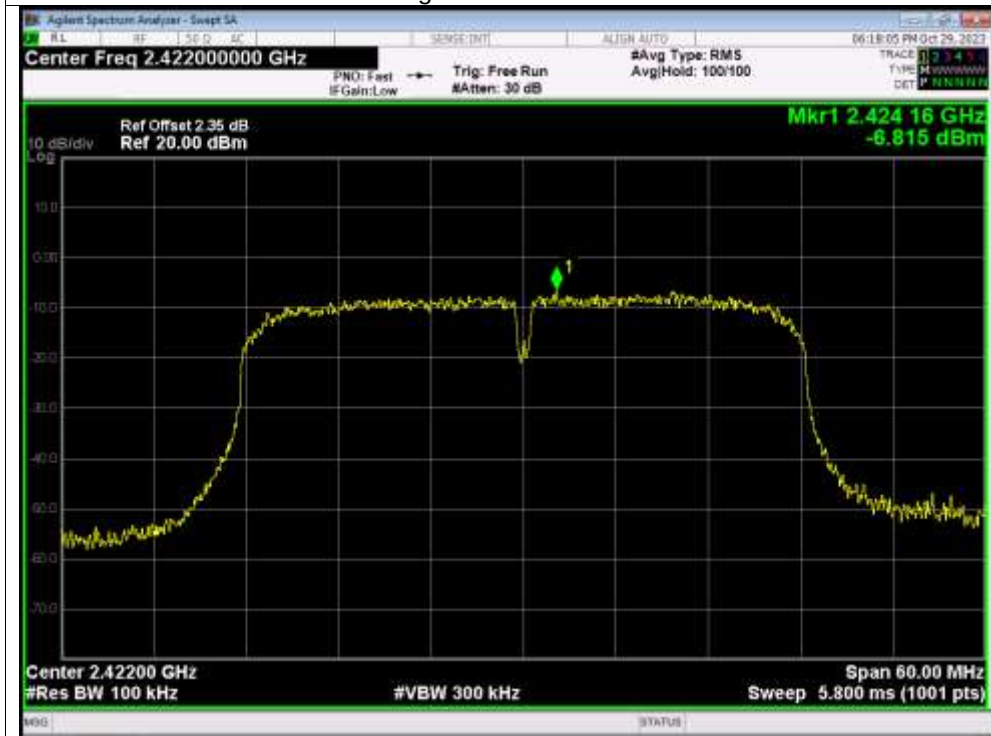
Band Edge NVNT n20 2462MHz



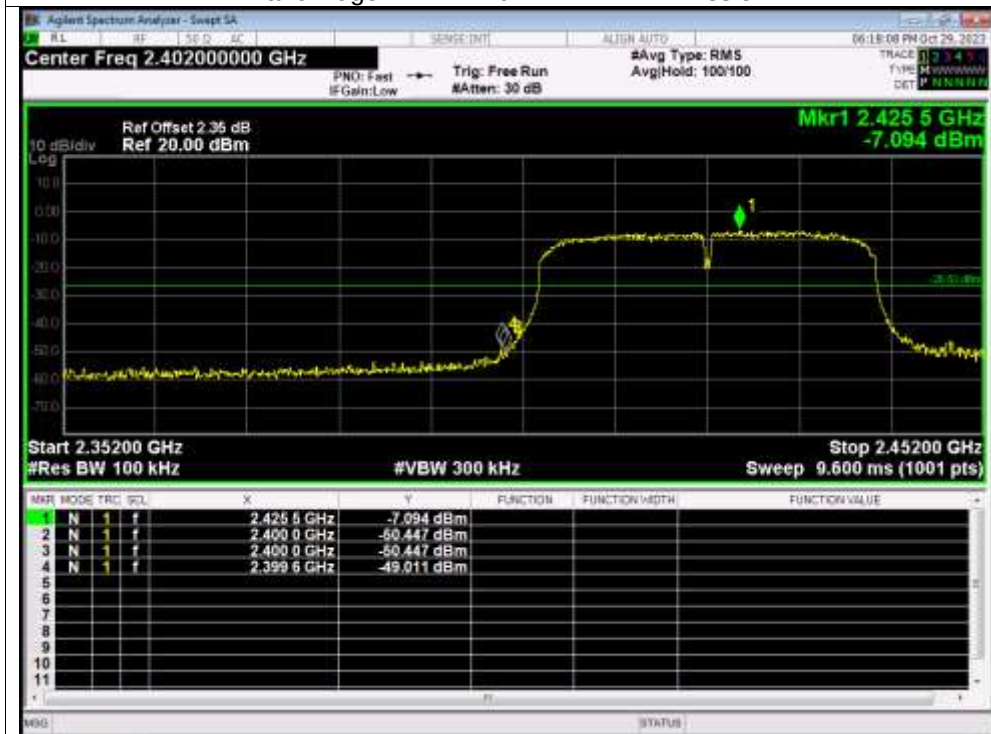
Band Edge NVNT n20 2462MHz Emission



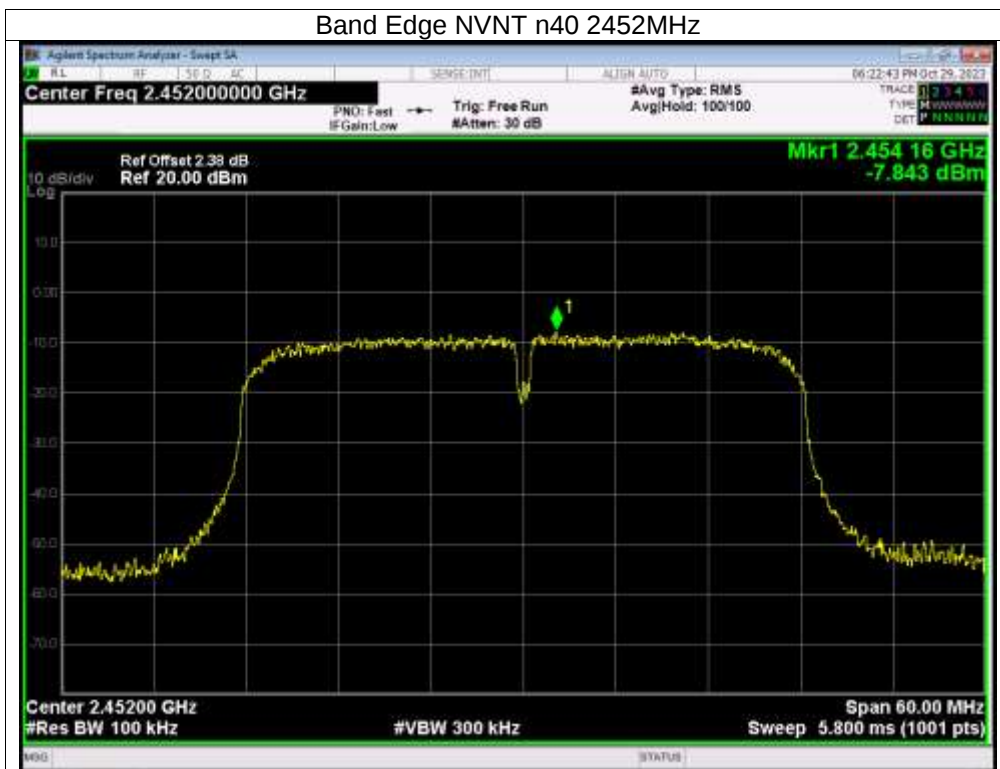
Band Edge NVNT n40 2422MHz



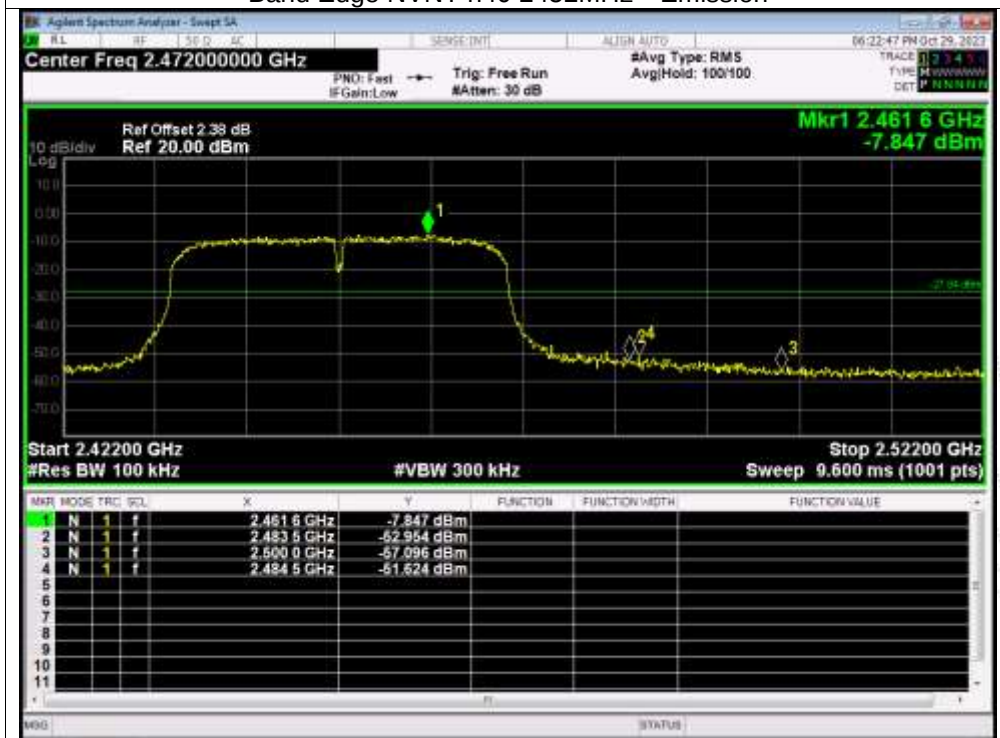
Band Edge NVNT n40 2422MHz Emission



Band Edge NVNT n40 2452MHz



Band Edge NVNT n40 2452MHz Emission



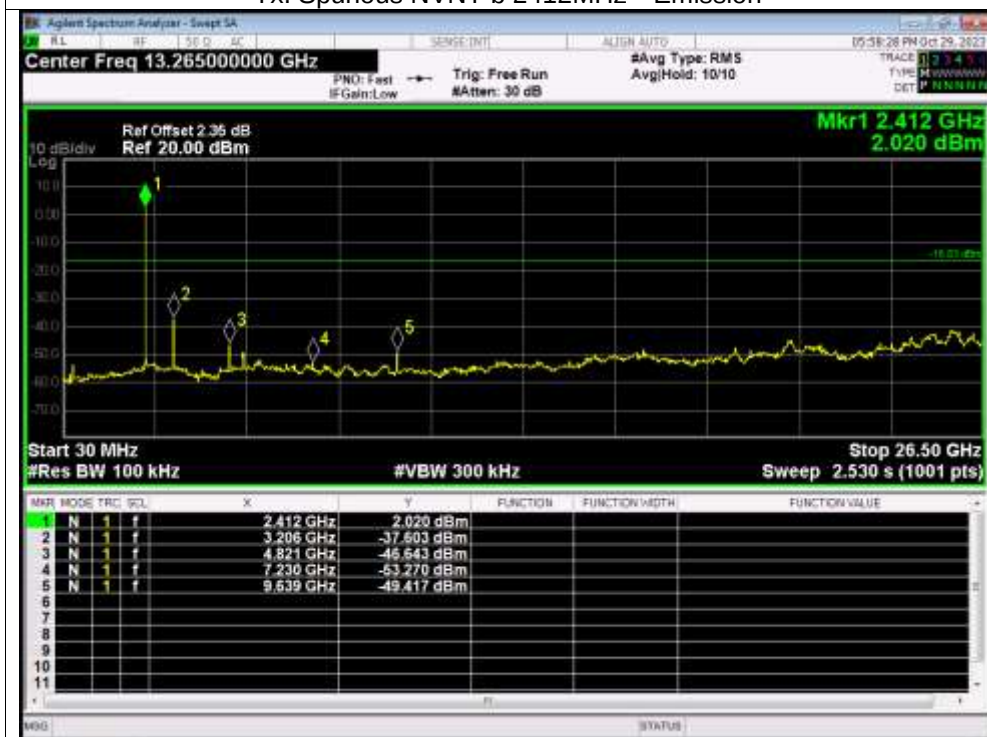
Tx. Spurious

Test Graphs

Tx. Spurious NVNT b 2412MHz



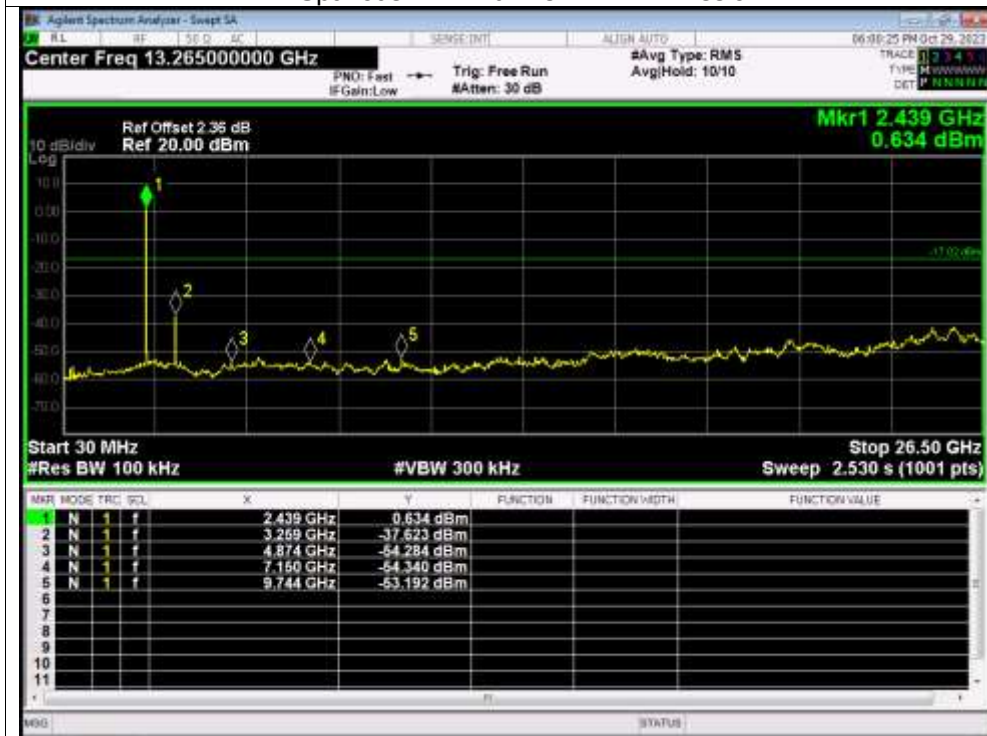
Tx. Spurious NVNT b 2412MHz Emission



Tx. Spurious NVNT b 2437MHz



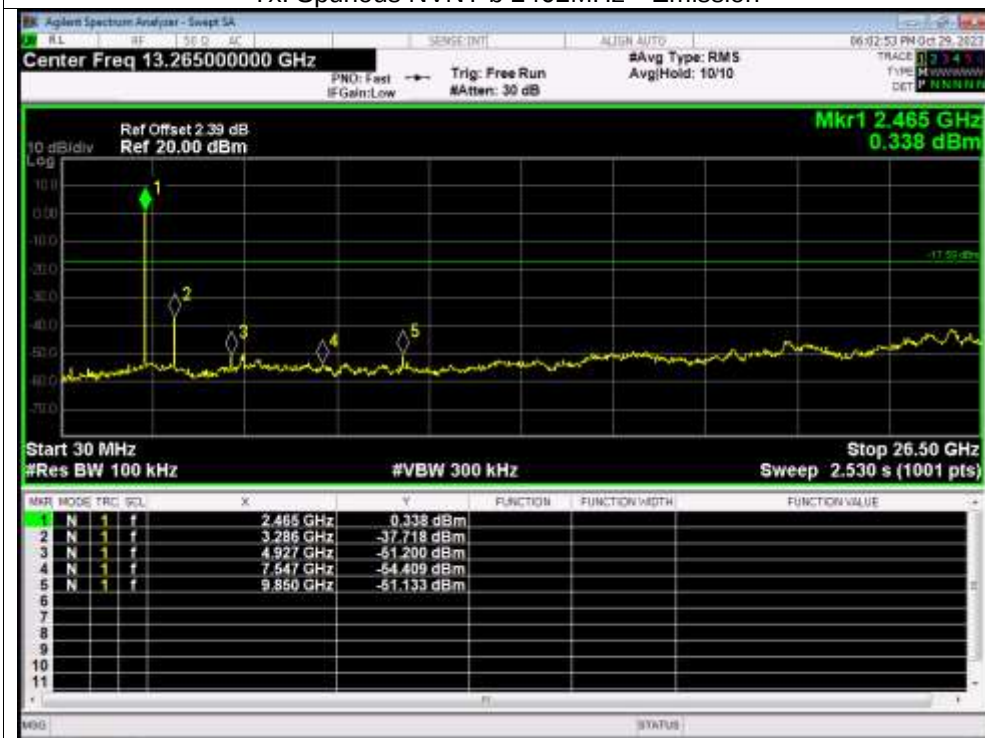
Tx. Spurious NVNT b 2437MHz Emission



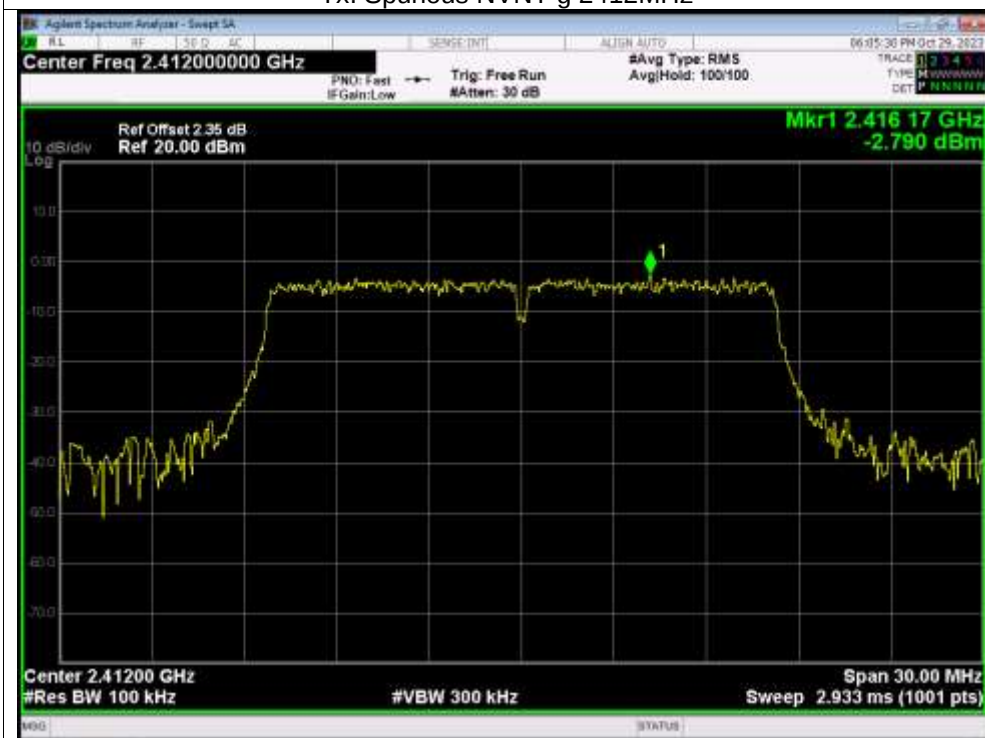
Tx. Spurious NVNT b 2462MHz



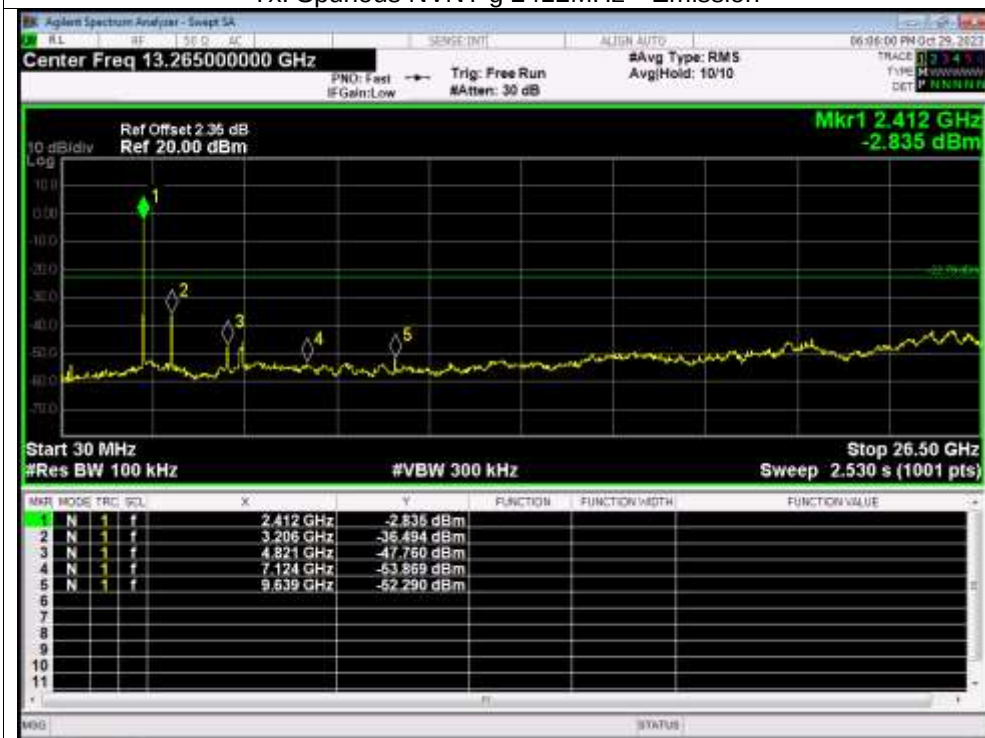
Tx. Spurious NVNT b 2462MHz Emission



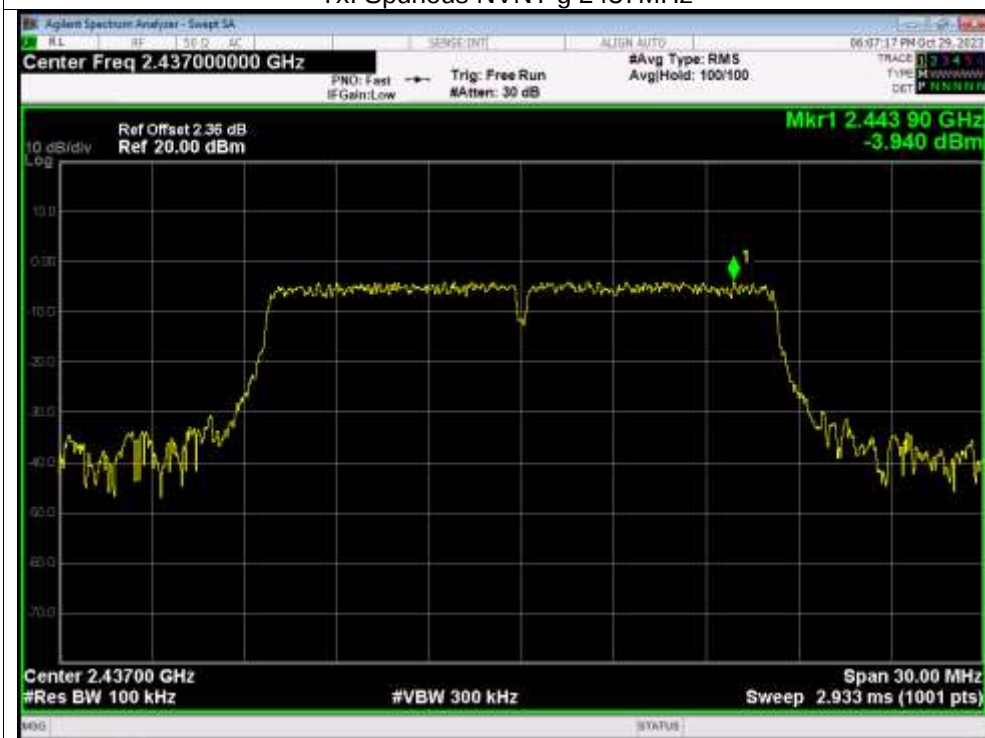
Tx. Spurious NVNT g 2412MHz



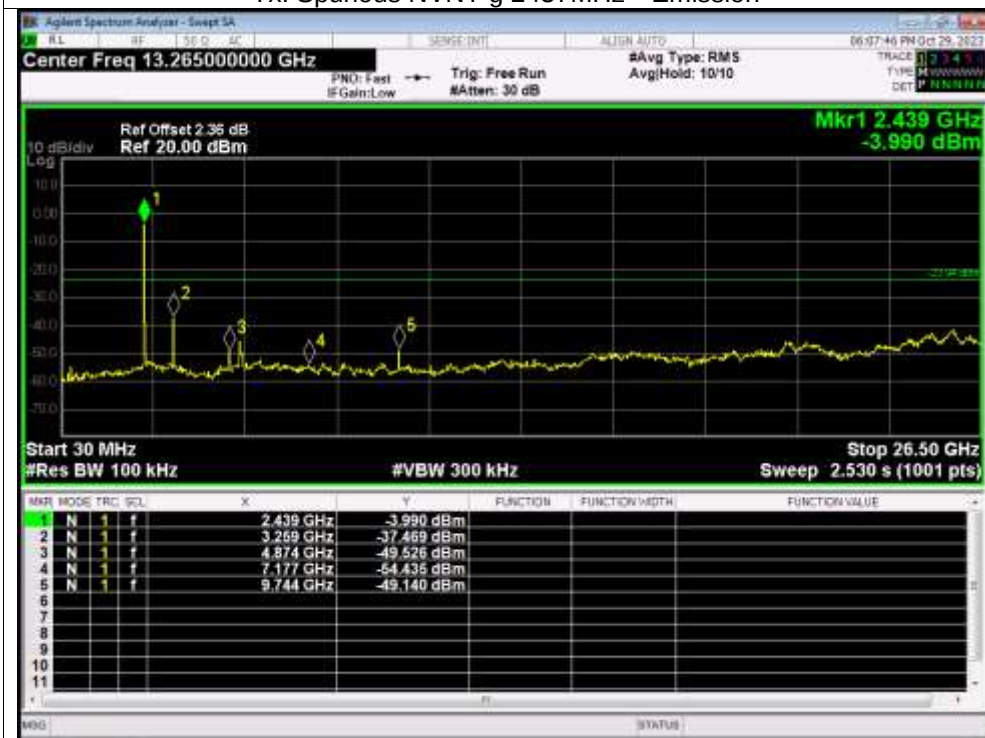
Tx. Spurious NVNT g 2412MHz Emission



Tx. Spurious NVNT g 2437MHz



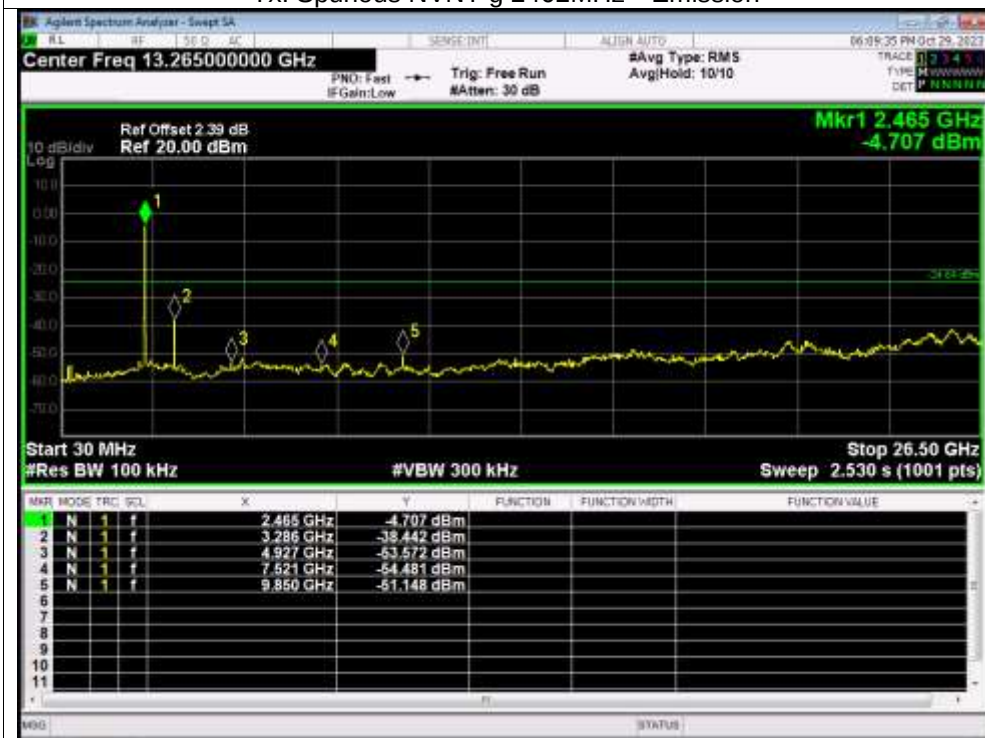
Tx. Spurious NVNT g 2437MHz Emission



Tx. Spurious NVNT g 2462MHz



Tx. Spurious NVNT g 2462MHz Emission

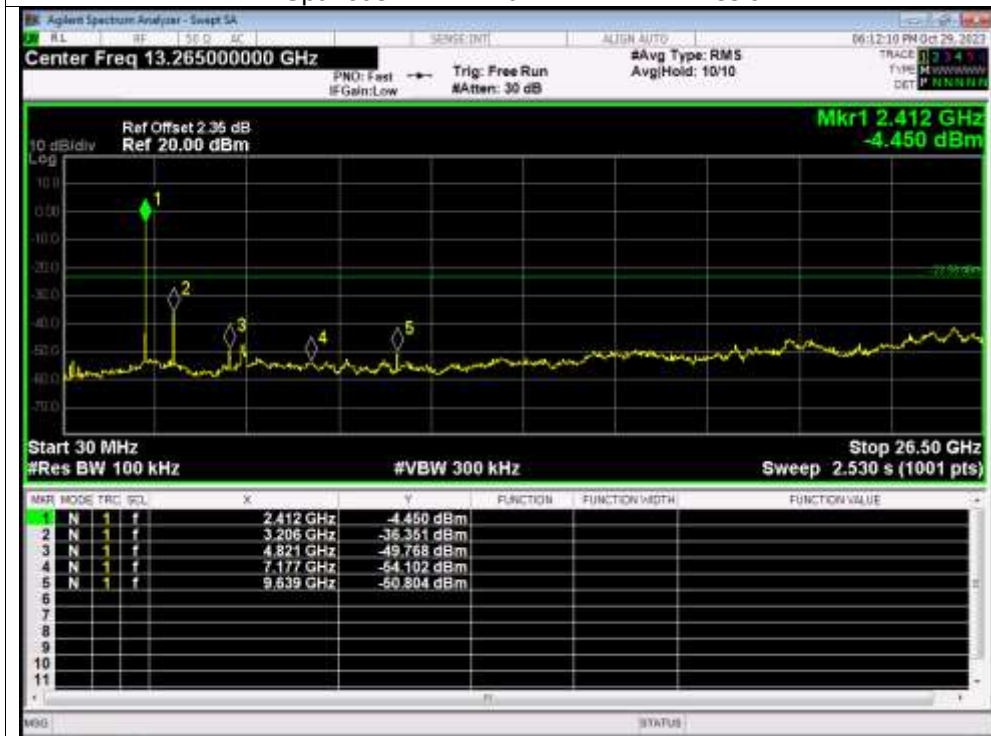


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Tx. Spurious NVNT n20 2412MHz



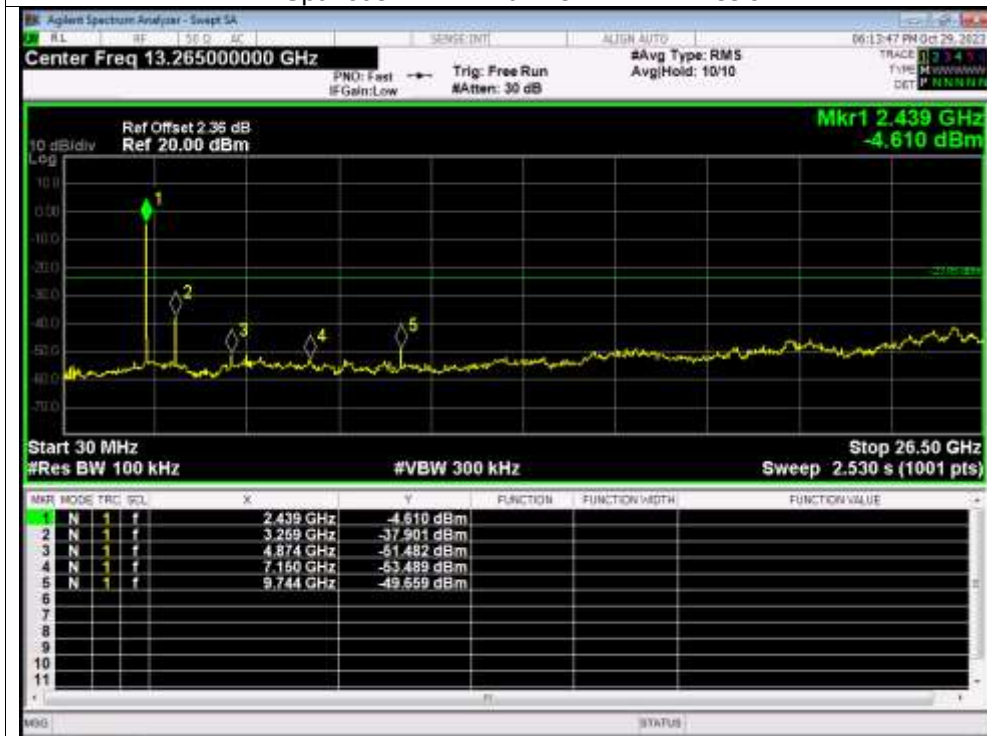
Tx. Spurious NVNT n20 2412MHz Emission



Tx. Spurious NVNT n20 2437MHz



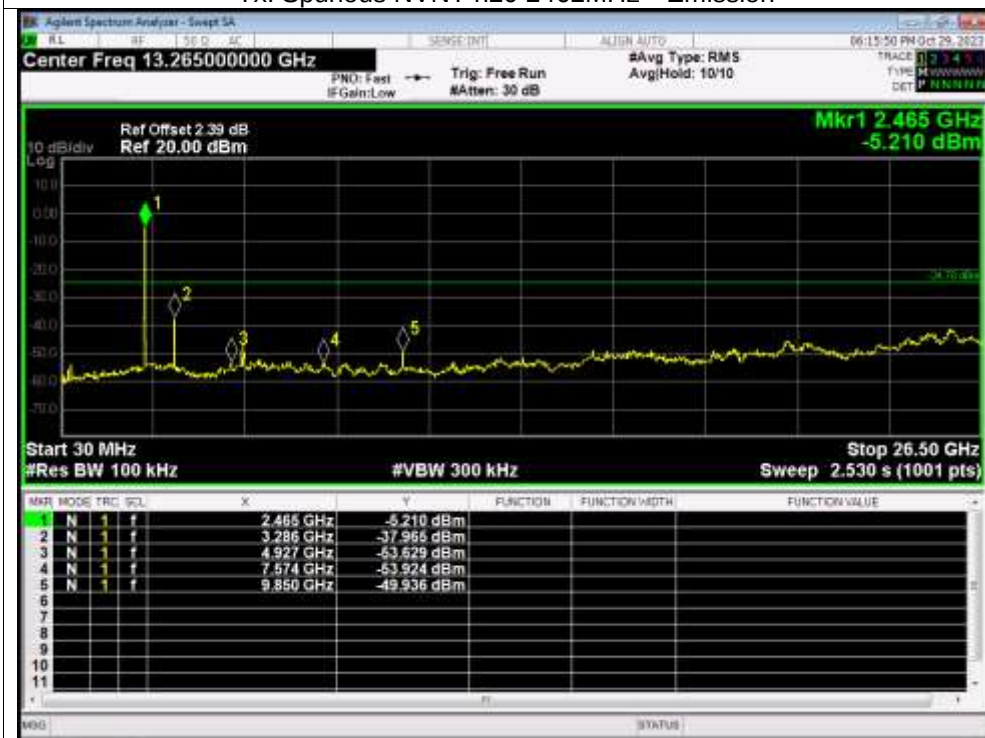
Tx. Spurious NVNT n20 2437MHz Emission



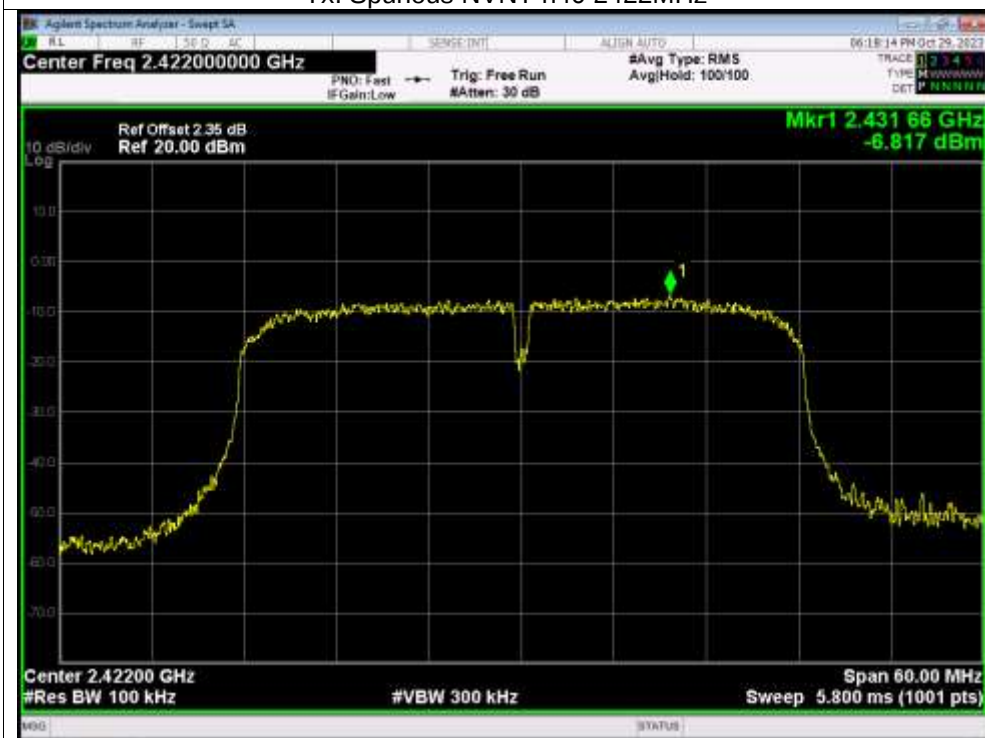
Tx. Spurious NVNT n20 2462MHz



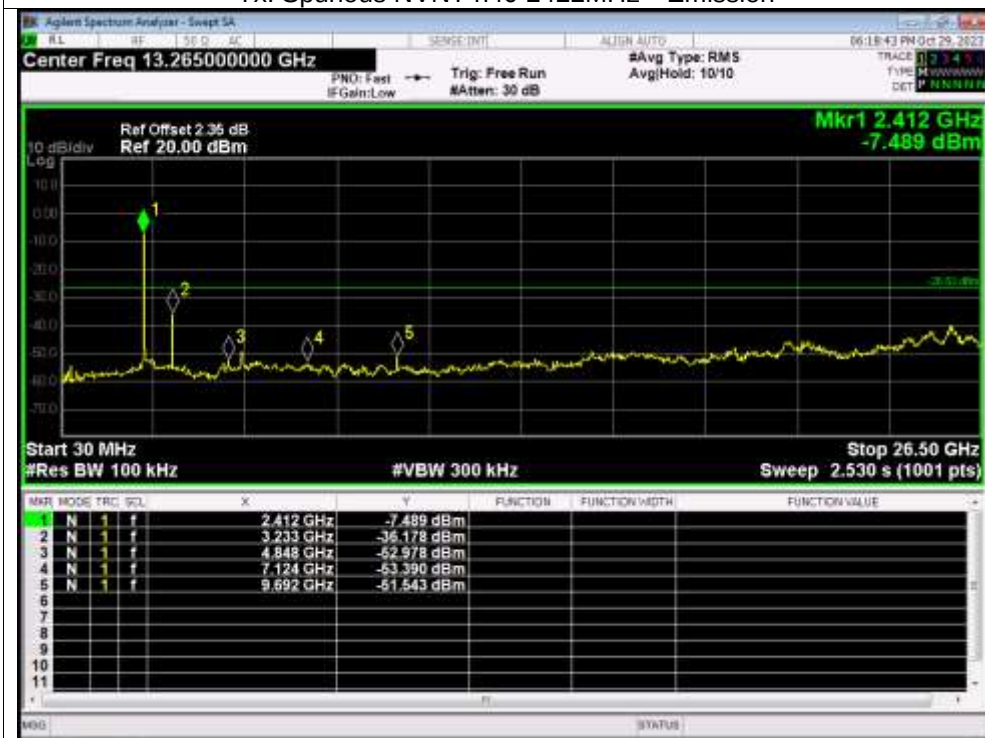
Tx. Spurious NVNT n20 2462MHz Emission



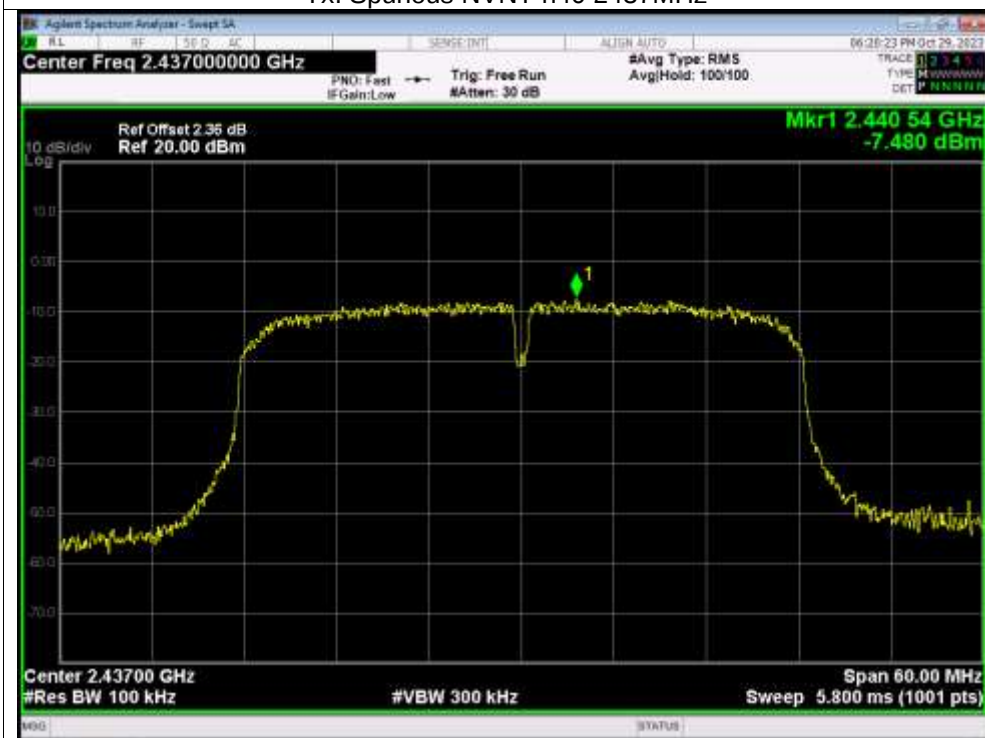
Tx. Spurious NVNT n40 2422MHz



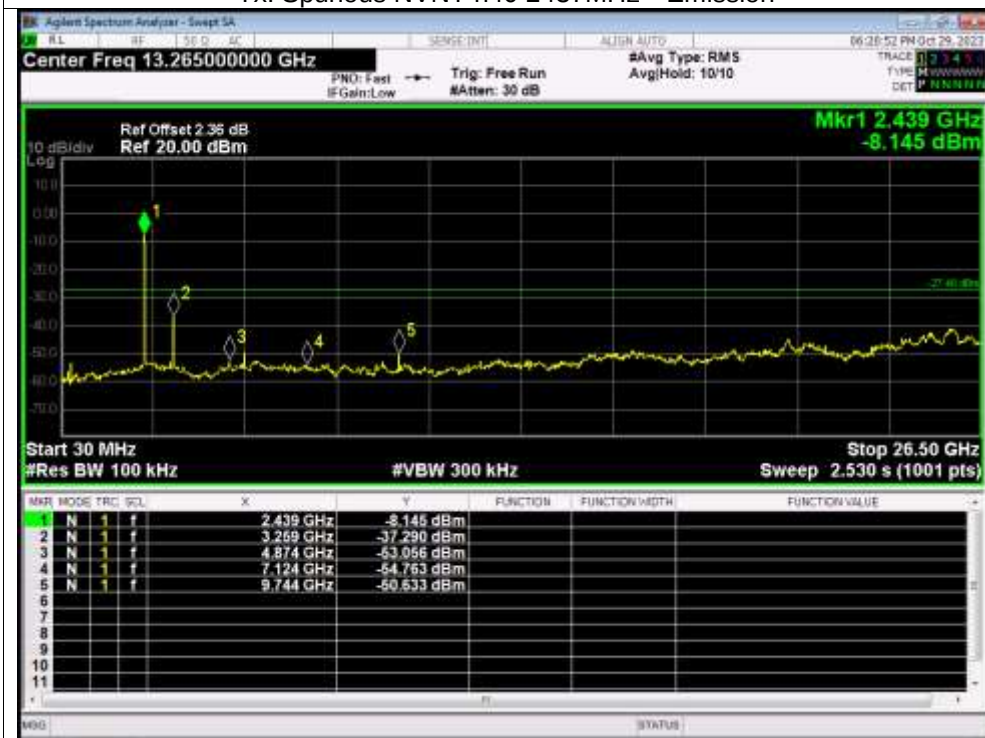
Tx. Spurious NVNT n40 2422MHz Emission



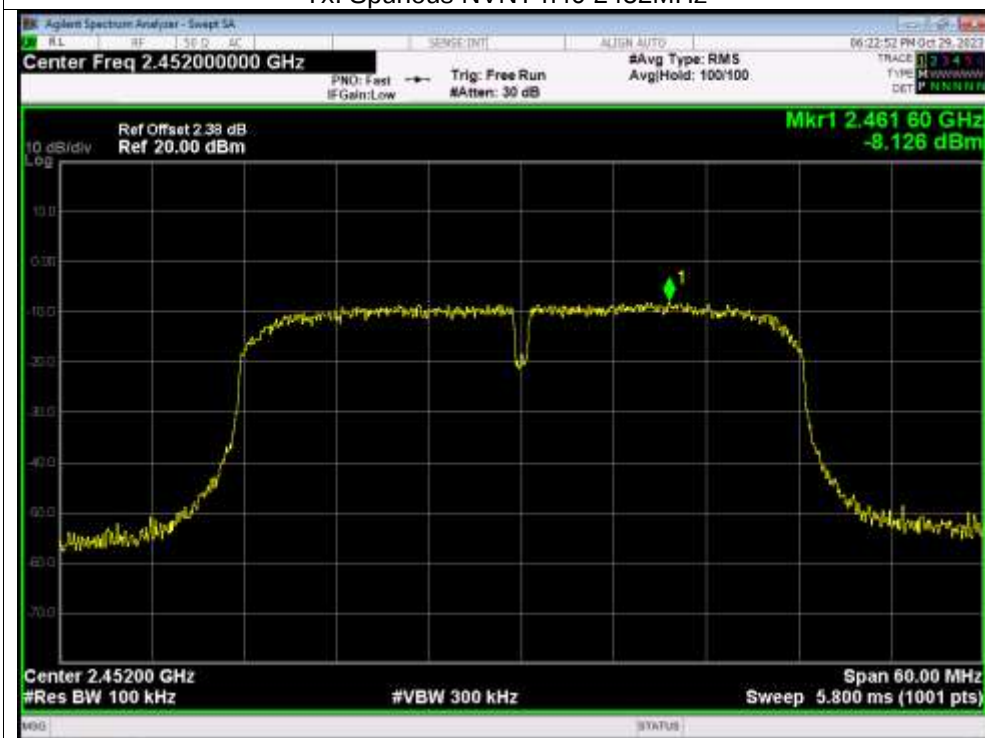
Tx. Spurious NVNT n40 2437MHz



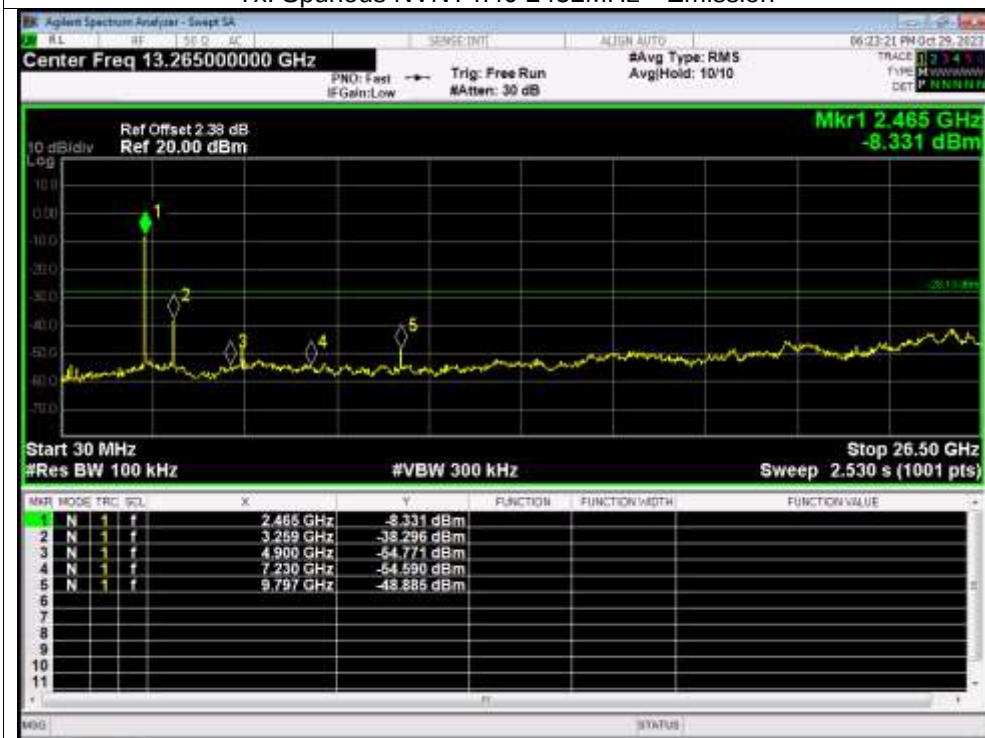
Tx. Spurious NVNT n40 2437MHz Emission



Tx. Spurious NVNT n40 2452MHz



Tx. Spurious NVNT n40 2452MHz Emission



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13. Duty Cycle Of Test Signal

13.1 Standard Requirement

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

13.2 Formula

Duty Cycle = $T_{on} / (T_{on} + T_{off})$

13.3 Test Procedure

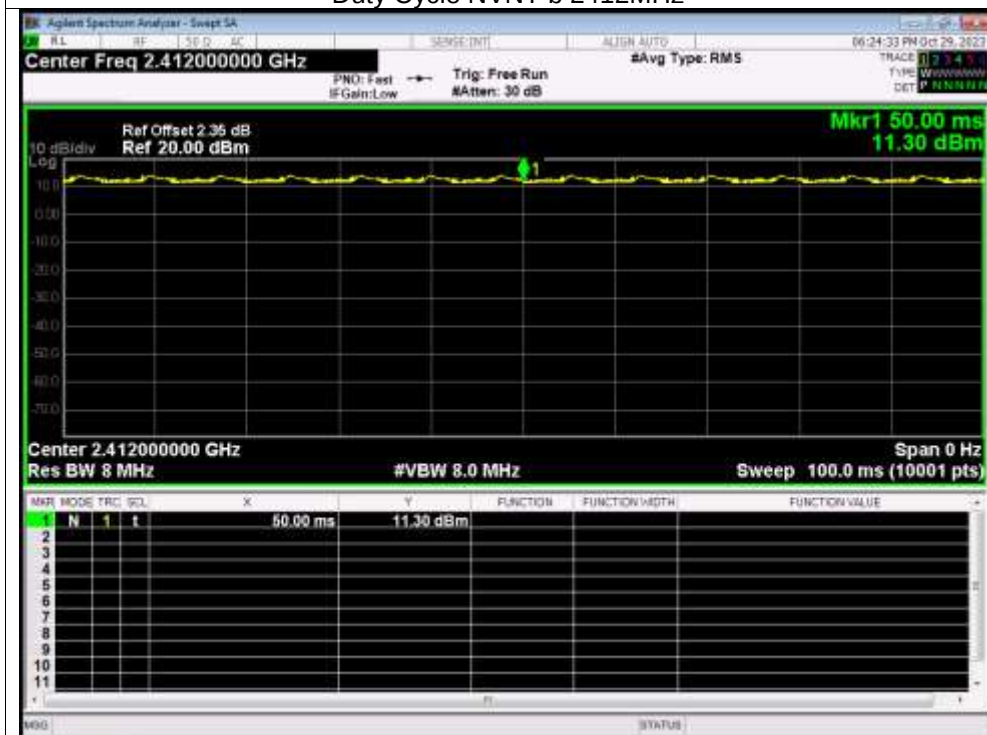
1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

13.4 Test Result

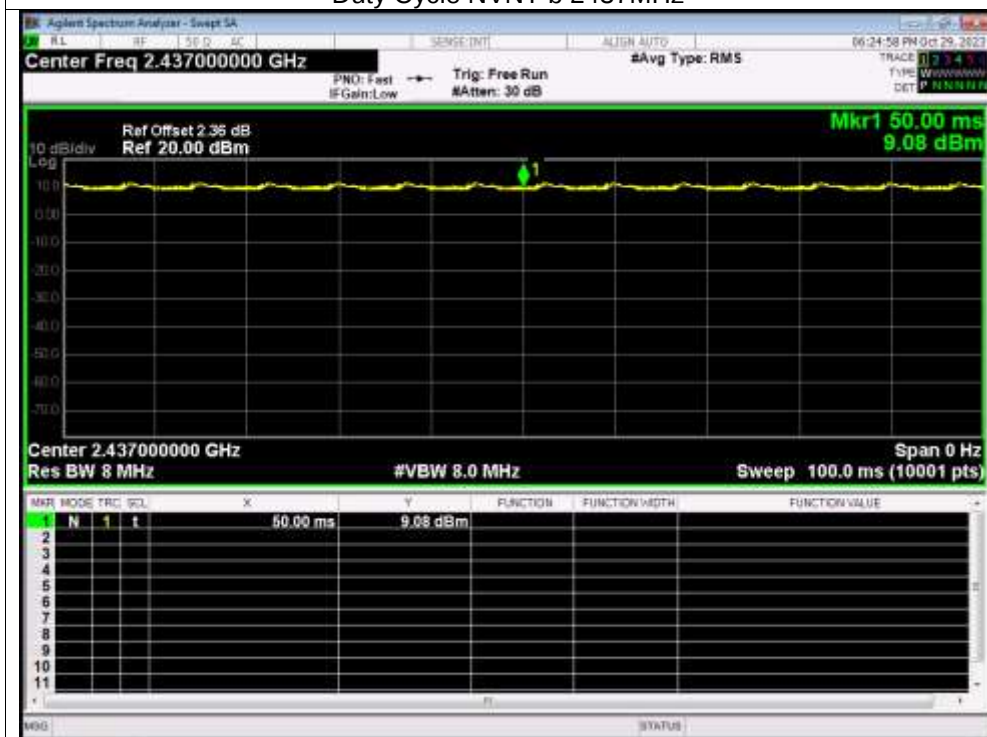
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	100	0	0
NVNT	b	2437	100	0	0
NVNT	b	2462	100	0	0
NVNT	g	2412	100	0	0
NVNT	g	2437	100	0	0
NVNT	g	2462	100	0	0
NVNT	n20	2412	100	0	0
NVNT	n20	2437	100	0	0
NVNT	n20	2462	100	0	0
NVNT	n40	2422	100	0	0
NVNT	n40	2437	100	0	0
NVNT	n40	2452	100	0	0

Test Graphs

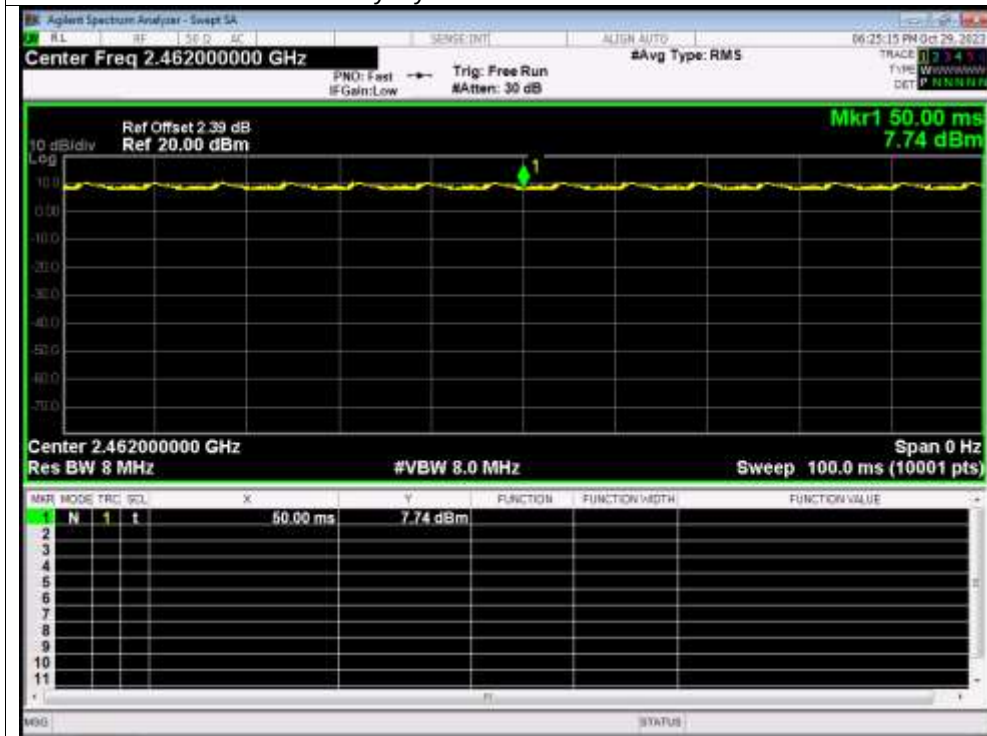
Duty Cycle NVNT b 2412MHz



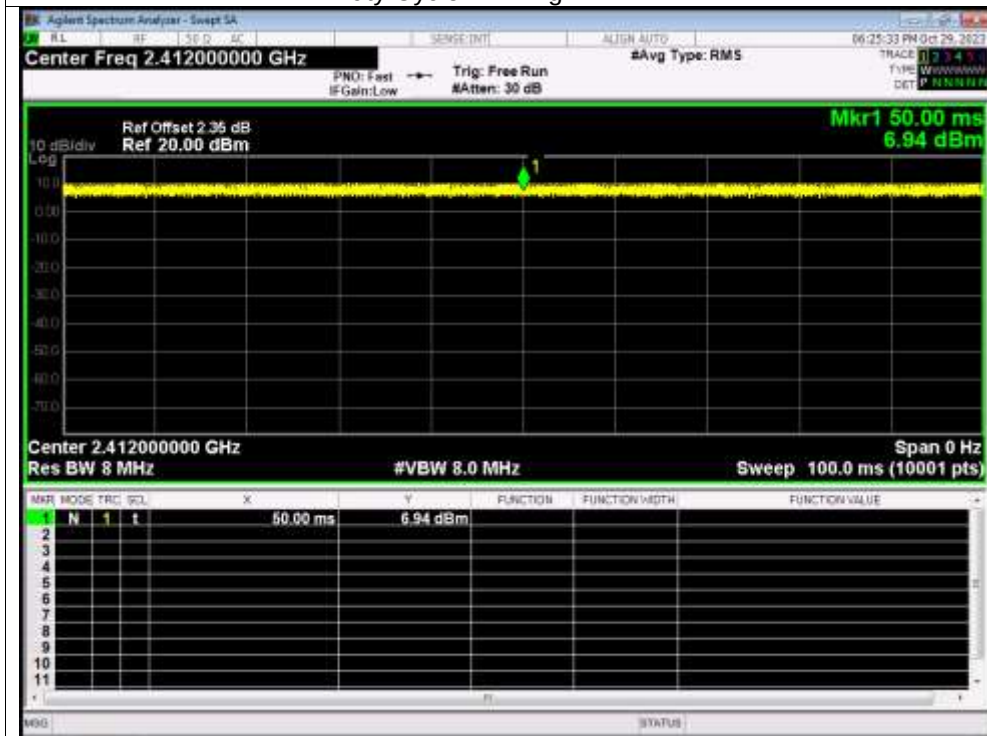
Duty Cycle NVNT b 2437MHz



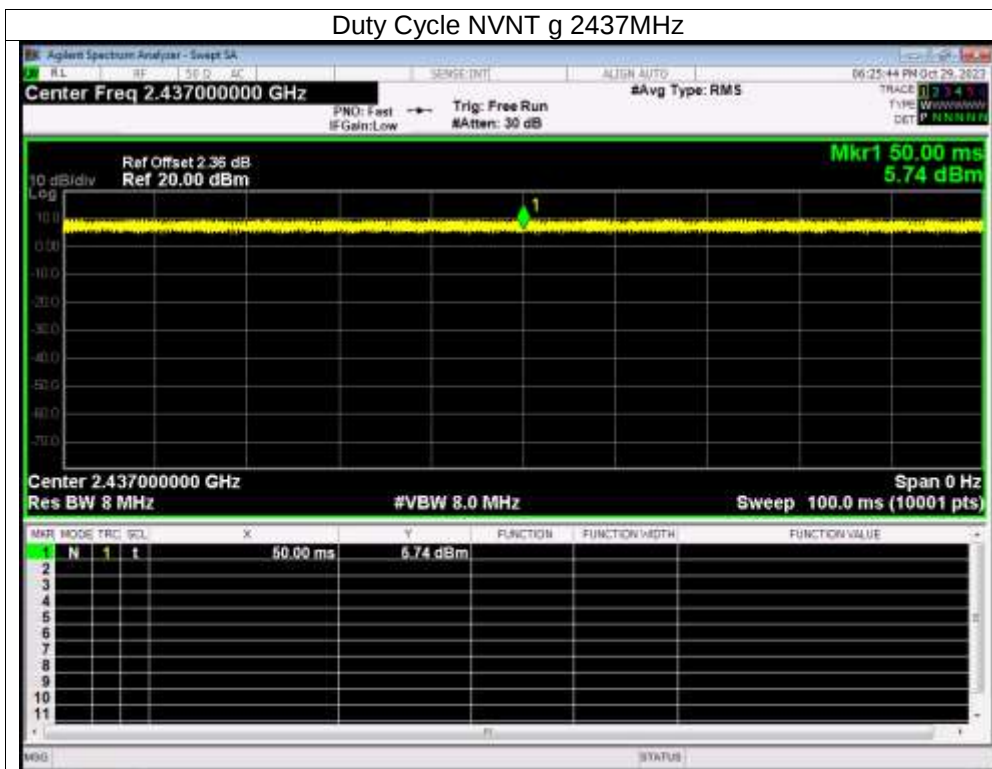
Duty Cycle NVNT b 2462MHz



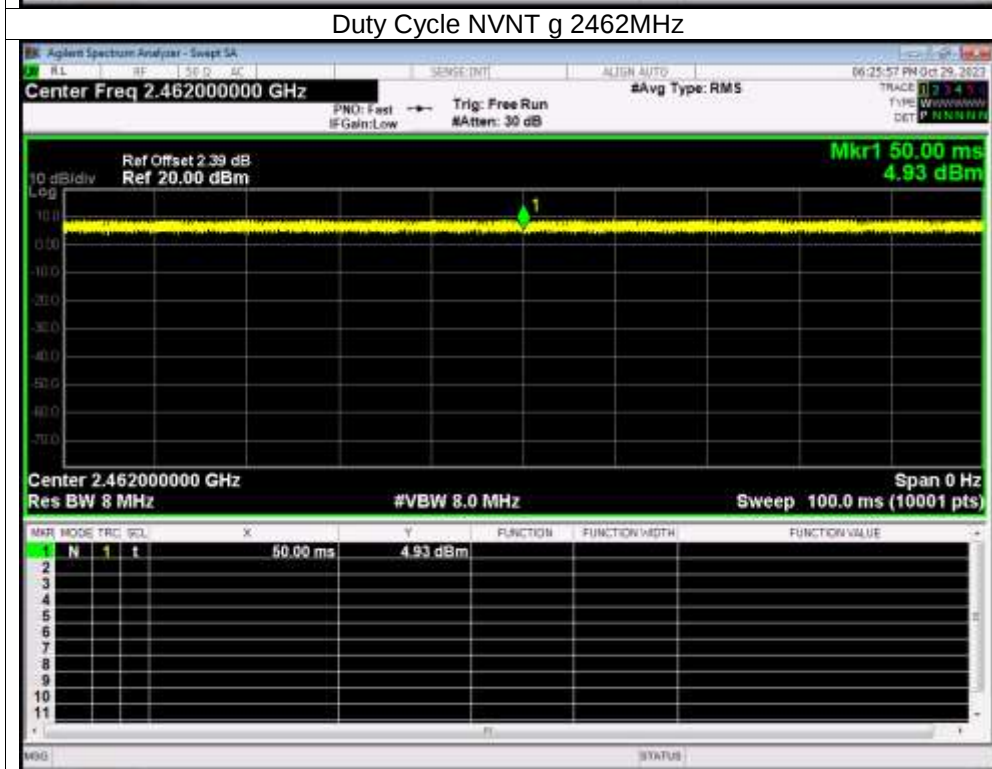
Duty Cycle NVNT g 2412MHz



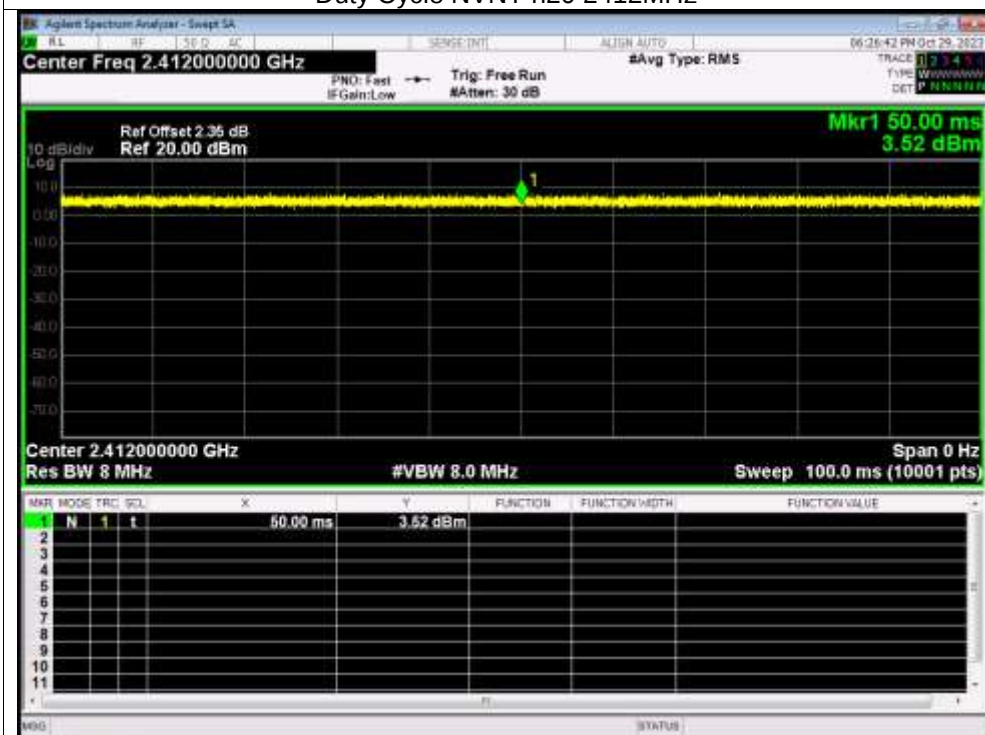
Duty Cycle NVNT g 2437MHz



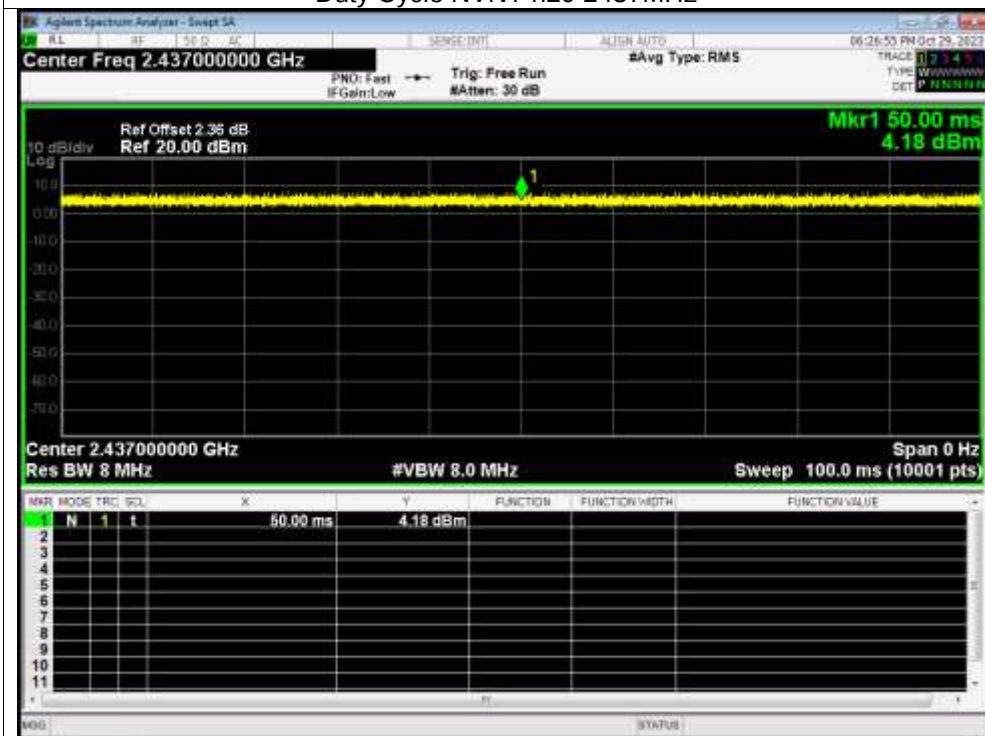
Duty Cycle NVNT g 2462MHz



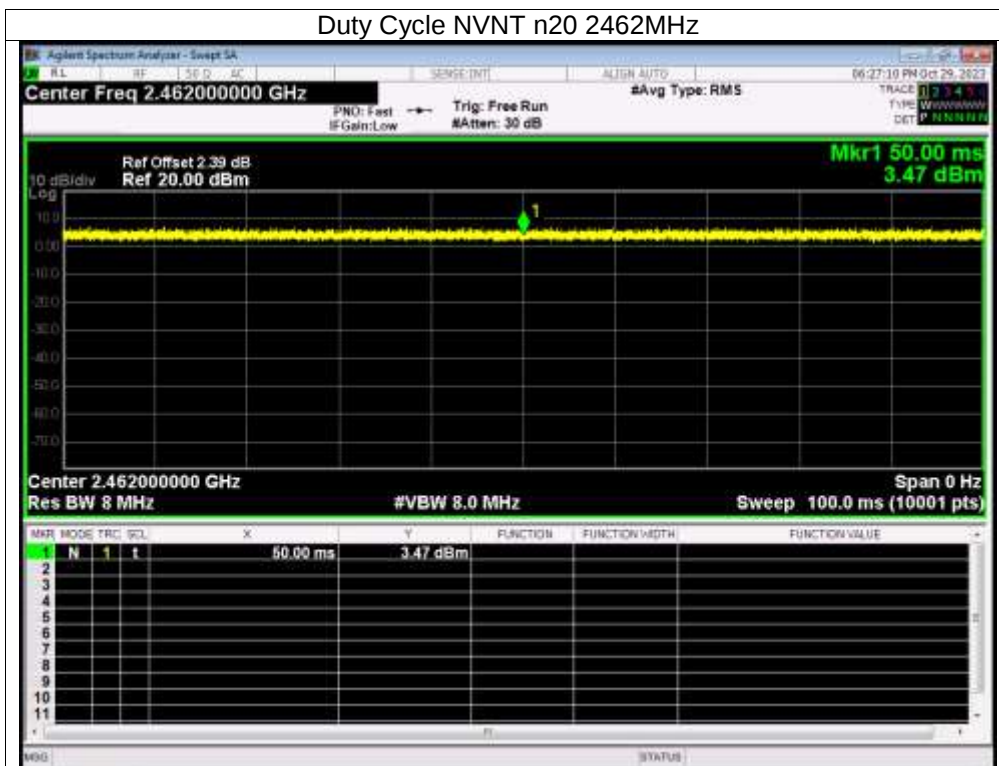
Duty Cycle NVNT n20 2412MHz



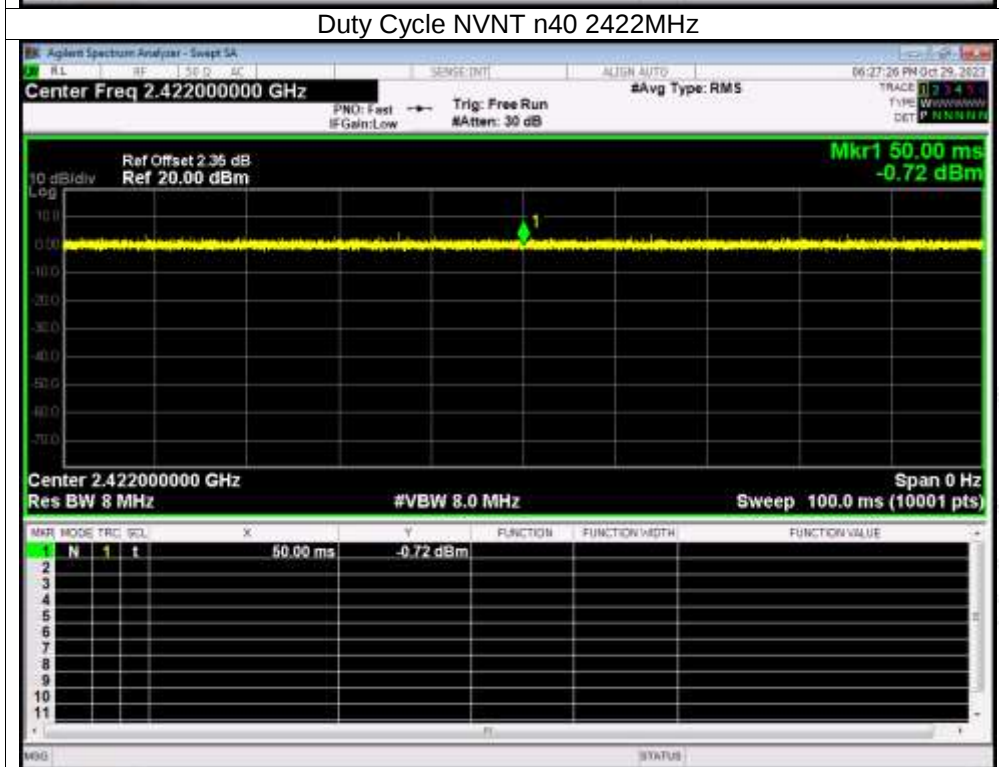
Duty Cycle NVNT n20 2437MHz



Duty Cycle NVNT n20 2462MHz

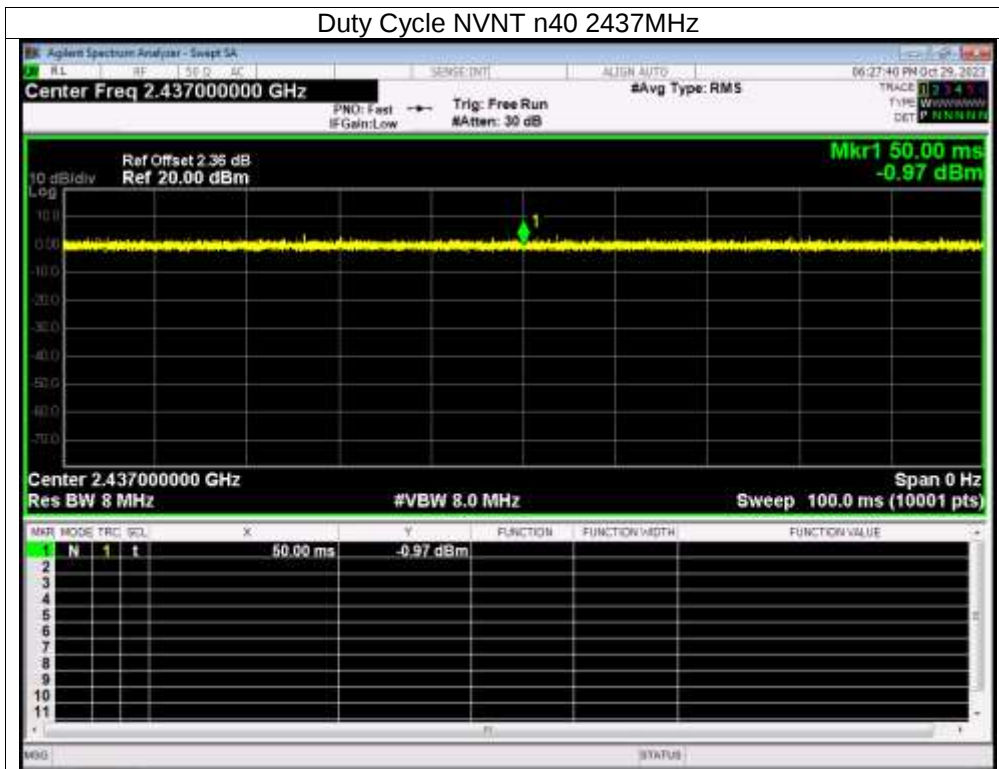


Duty Cycle NVNT n40 2422MHz

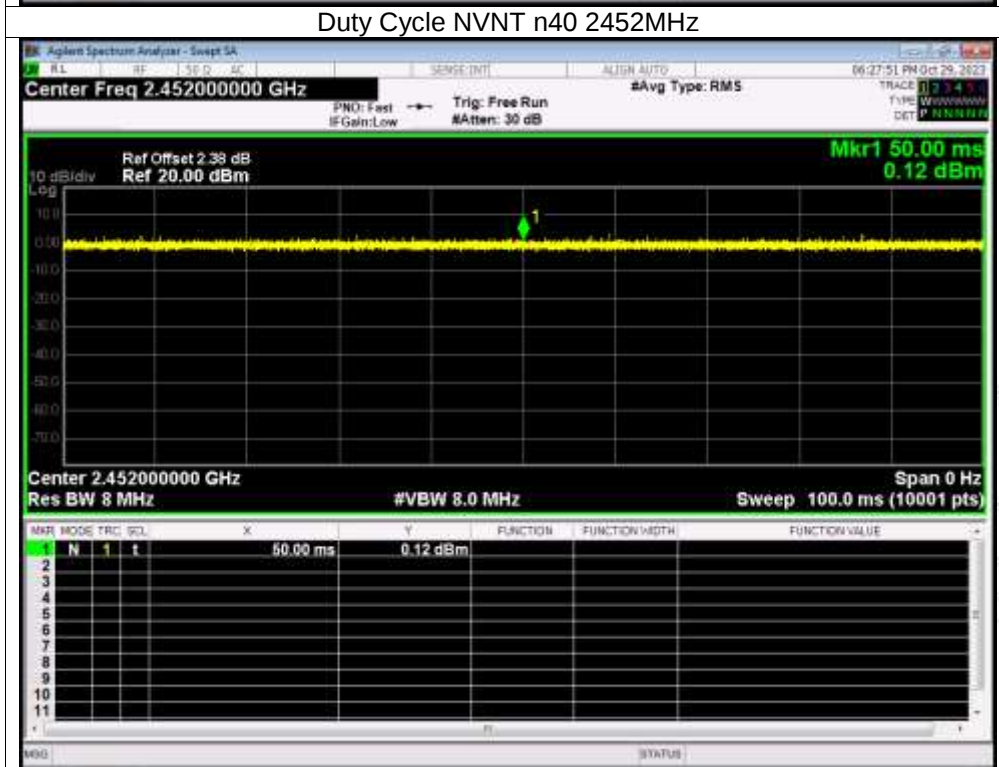


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Duty Cycle NVNT n40 2437MHz



Duty Cycle NVNT n40 2452MHz



14. Antenna Requirement

14.1 Limit

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

14.2 Test Result

The EUT antenna is Internal antenna, fulfill the requirement of this section.

15. EUT Photographs

EUT Photo 1

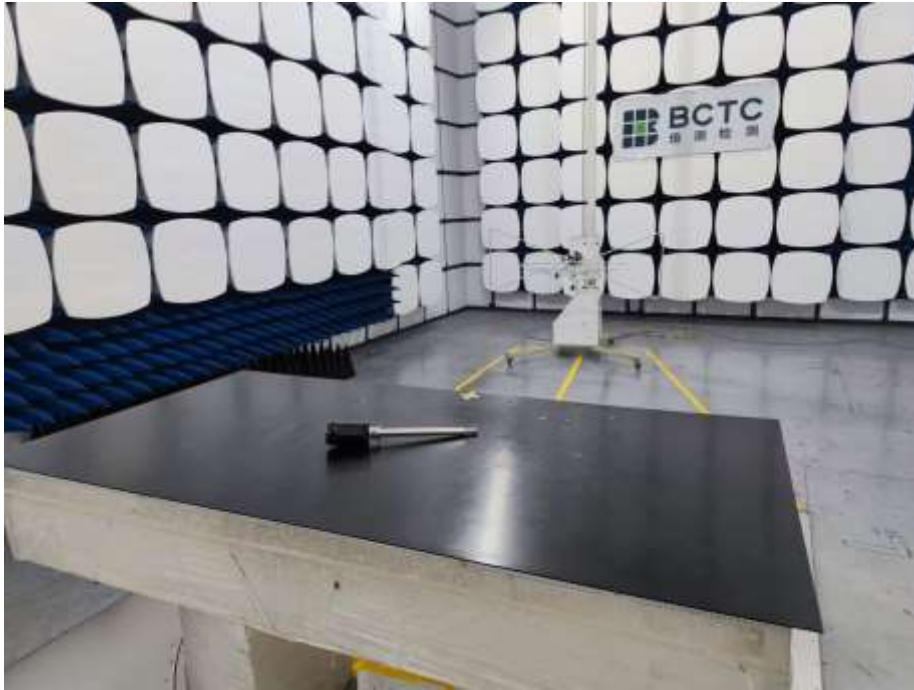


EUT Photo 2



16. EUT Test Setup Photographs

Radiated Measurement Photos



ESTIM
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STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

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TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: <http://www.chnbctc.com>

E-Mail: bctc@bctc-lab.com.cn

***** END *****

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CO., LTD