TEST REPORT

Report No.:	BCTC2505797947E
Applicant:	Shenzhen Kimairay Technology Co.,Ltd.
Product Name:	Wireless HD Scalp Detector
Test Model:	KH-2306A
Tested Date:	2025-05-14 to 2025-05-21
Issued Date:	2025-05-21

Shenzhen BCTC Testing Co., Ltd.

FCC ID: 2BPSB-KH-2306A

Product Name:	Wireless HD Scalp Detector
Trademark:	N/A
Model/Type Reference:	KH-2306A
Prepared For:	Shenzhen Kimairay Technology Co.,Ltd.
Address:	Factory Building No. 5101, Zone 2, Fuqiao Industrial Zone, Heping Community, Fuhai Subdistrict, Bao'an District, Shenzhen, China
Manufacturer:	Shenzhen Kimairay Technology Co.,Ltd.
Address:	Factory Building No. 5101, Zone 2, Fuqiao Industrial Zone, Heping Community, Fuhai Subdistrict, Bao'an District, Shenzhen, China
Prepared By:	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
Sample Received Date:	2025-05-14
Sample Tested Date:	2025-05-14 to 2025-05-21
Issue Date:	2025-05-21
Report No.:	BCTC2505797947E
Test Standards:	FCC Part15.247 ANSI C63.10:2013
Test Results:	PASS
Remark:	This is WIFI-2.4GHz band radio test report.

Tested by:

Shanshan. Zhang

Shanshan. Zhang / Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp.This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full.The tested sample(s) and the sample information are provided by the client.

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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2505797947E	2025-05-21	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	PASS
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

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	Power Spectral Density	U=1.19dB
8	Conducted output power uncertainty Above 1G	U=1.576dB
9	Conducted output power uncertainty below 1G	U=1.28dB
10	Conducted spurious emissions	U=0.55dB
11	Occupied Bandwidth/Frequency Range	U=3.46%
12	humidity uncertainty	U=5.3%
13	Temperature uncertainty	U=0.59℃
14	Frequency Error	U=53.50Hz
15	Frequency Drift	U=0.64kHz

4. Product Information And Test Setup

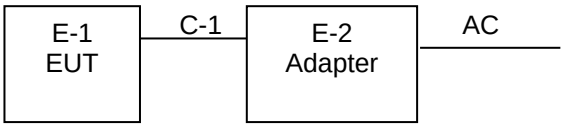
4.1 Product Information

Model/Type Reference:	KH-2306A
Model Differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	802.11b/g/n20MHz:2412~2462 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:	WIFI: OFDM/DSSS
Number Of Channel:	802.11b/g/n20MHz:11 CH
Antenna installation:	Internal antenna
Antenna Gain:	-1.66 dBi Remark: ☒ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☐ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 5V from adapter or DC 3.7V from battery

4.2 Test Setup Configuration

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

Conducted Emission and Radiated Spurious Emission:



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Wireless HD Scalp Detector	N/A	KH-2306A	---	EUT
E-2	Adapter	UGREEN	CD289	---	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	1m	DC cable unshielded

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		

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.

For All Mode	Description	Modulation Type
Mode 1	CH 01	802.11b
Mode 2	CH 06	
Mode 3	CH 11	
Mode 4	CH 01	802.11g
Mode 5	CH 06	
Mode 6	CH 11	
Mode 7	CH 01	802.11n20
Mode 8	CH 06	
Mode 9	CH 11	
Mode 10	Link mode (Conducted Emission & Radiated emission)	

Notes:

1. The measurements are performed at the highest, middle, lowest available channels.
2. The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
3. According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup” 11Mbps for 802.11b,6Mbps for 802.11g,13Mbps for 802.11n(H20), 54Mbps for 802.11n(H40)

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	WiFiTestTool_V1.1.7		
Frequency	2412 MHz	2437 MHz	2462 MHz
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

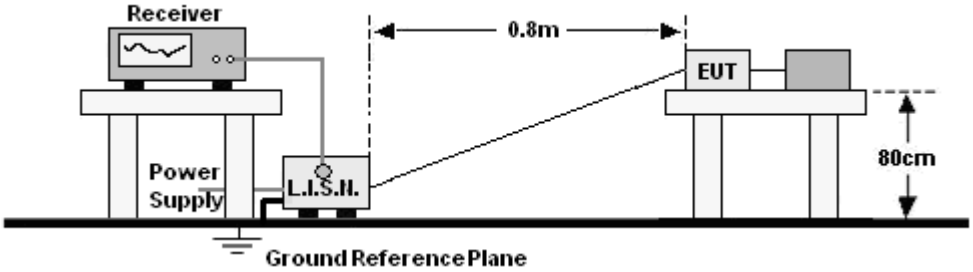
Conducted Emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR3	102075	May 08 2025	May 07, 2026
LISN	R&S	ENV216	101375	May 14, 2025	May 13, 2026
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 14, 2025	May 13, 2026

RF Conducted Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Power Meter	Keysight	E4419	\	May 14, 2025	May 13, 2026
Power Sensor (AV)	Keysight	E9300A	\	May 14, 2025	May 13, 2026
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 14, 2025	May 13, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
Radio frequency control box	MAIWEI	MW100-RFCB	\	\	\
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	ESR	102075	May 08, 2025	May 07, 2026
Receiver	R&S	ESRP	101154	May 14, 2025	May 13, 2026
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 14, 2025	May 13, 2026
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2025	May 20, 2026
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2025	May 20, 2026
Amplifier	SKET	LAPA_01G18G-45dB	SK2021040901	May 14, 2025	May 13, 2026
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 14, 2025	May 13, 2026
Amplifier(18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 14, 2025	May 13, 2026
Horn Antenna(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2025	May 20, 2026
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 14, 2025	May 13, 2026
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: 1. *Decreasing linearly with logarithm of frequency. 2. 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

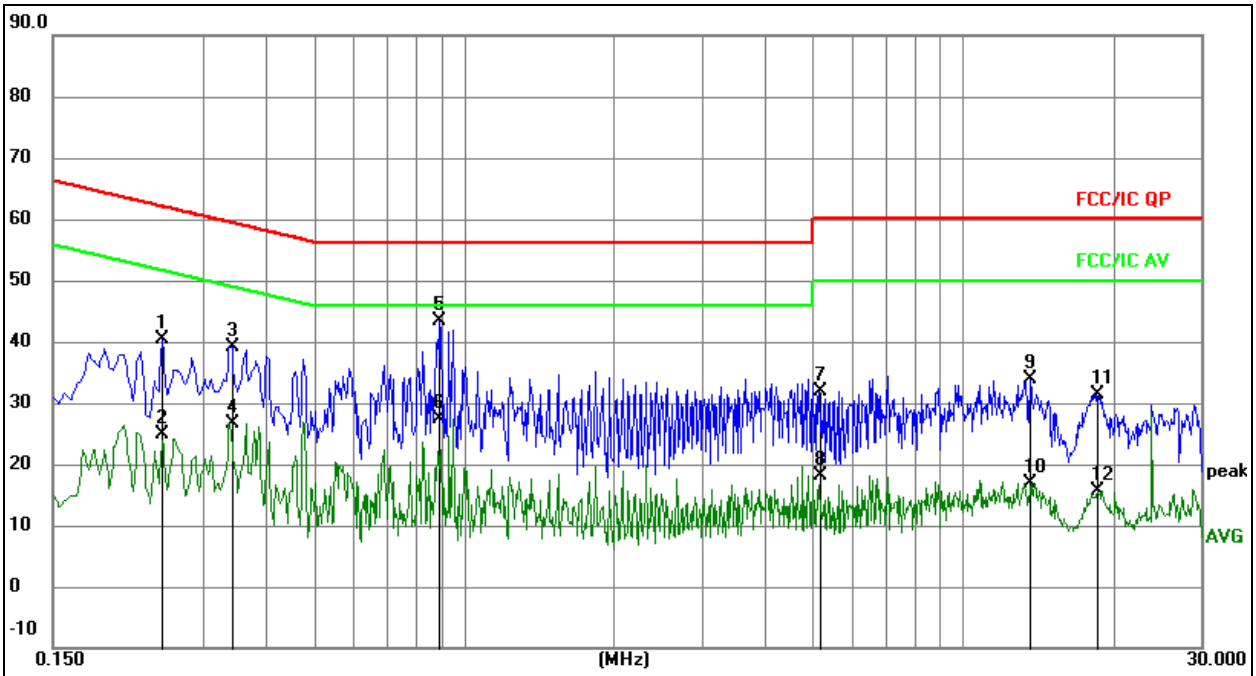
a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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.
c. 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

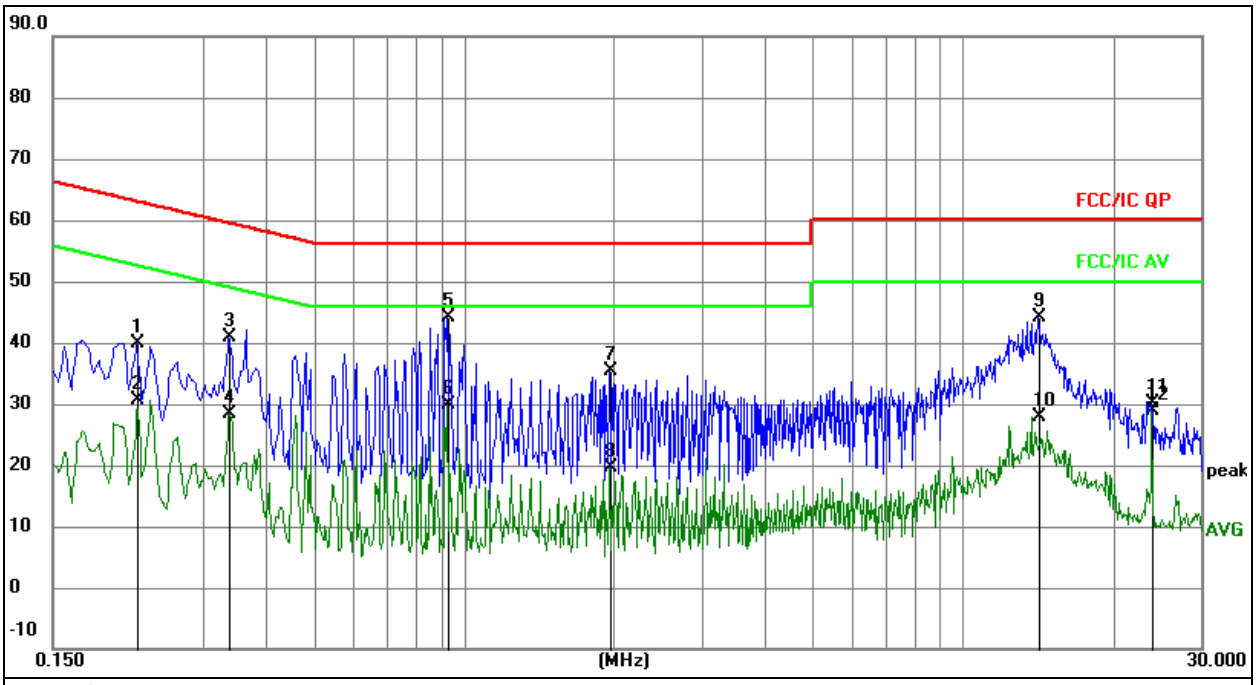
Temperature:	24 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 10	Polarization:	L



Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.2481	20.28	20.07	40.35	61.82	-21.47	QP
2		0.2481	4.80	20.07	24.87	51.82	-26.95	AVG
3		0.3428	19.18	20.07	39.25	59.14	-19.89	QP
4		0.3428	6.65	20.07	26.72	49.14	-22.42	AVG
5	*	0.8944	23.31	20.09	43.40	56.00	-12.60	QP
6		0.8944	7.28	20.09	27.37	46.00	-18.63	AVG
7		5.1390	11.83	20.15	31.98	60.00	-28.02	QP
8		5.1390	-2.02	20.15	18.13	50.00	-31.87	AVG
9		13.6228	13.62	20.27	33.89	60.00	-26.11	QP
10		13.6228	-3.34	20.27	16.93	50.00	-33.07	AVG
11		18.5237	11.17	20.32	31.49	60.00	-28.51	QP
12		18.5237	-4.59	20.32	15.73	50.00	-34.27	AVG

Temperature:	24 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 10	Polarization:	N



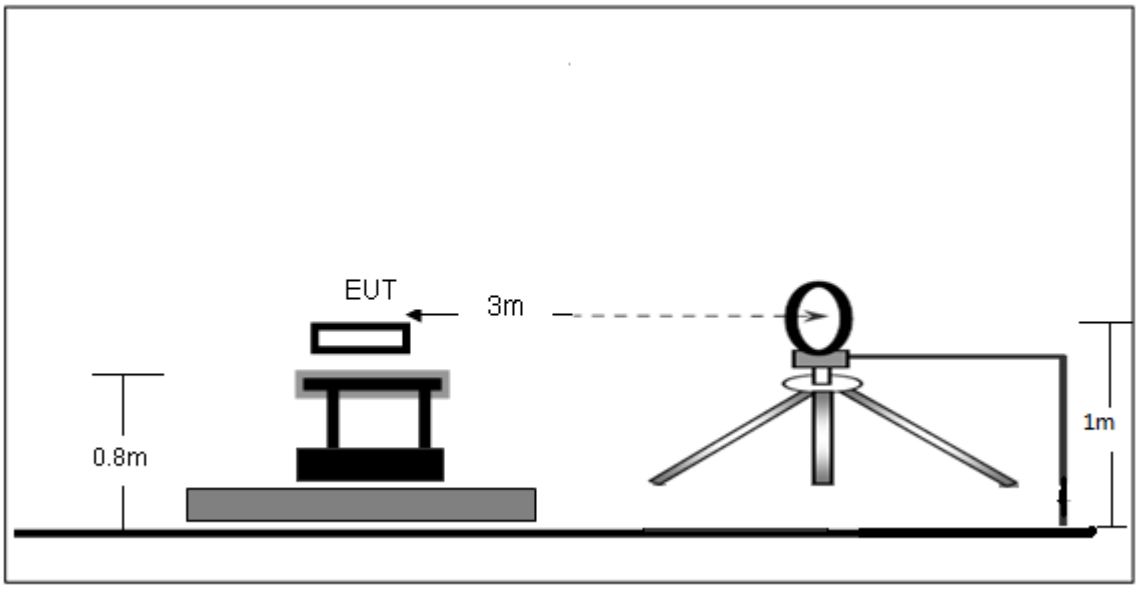
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.2220	19.69	20.07	39.76	62.74	-22.98	QP
2		0.2220	10.65	20.07	30.72	52.74	-22.02	AVG
3		0.3390	20.84	20.07	40.91	59.23	-18.32	QP
4		0.3390	8.36	20.07	28.43	49.23	-20.80	AVG
5	*	0.9240	24.10	20.09	44.19	56.00	-11.81	QP
6		0.9240	9.88	20.09	29.97	46.00	-16.03	AVG
7		1.9635	15.30	20.10	35.40	56.00	-20.60	QP
8		1.9635	-0.52	20.10	19.58	46.00	-26.42	AVG
9		14.1900	23.91	20.29	44.20	60.00	-15.80	QP
10		14.1900	7.63	20.29	27.92	50.00	-22.08	AVG
11		24.0000	9.91	20.31	30.22	60.00	-29.78	QP
12		24.0000	8.56	20.31	28.87	50.00	-21.13	AVG

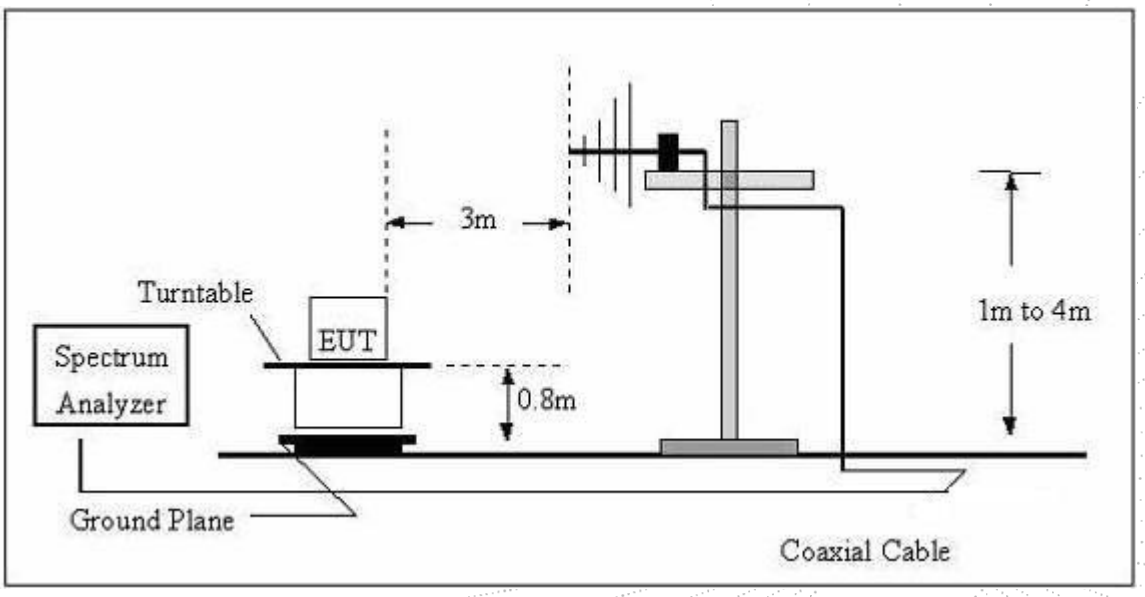
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

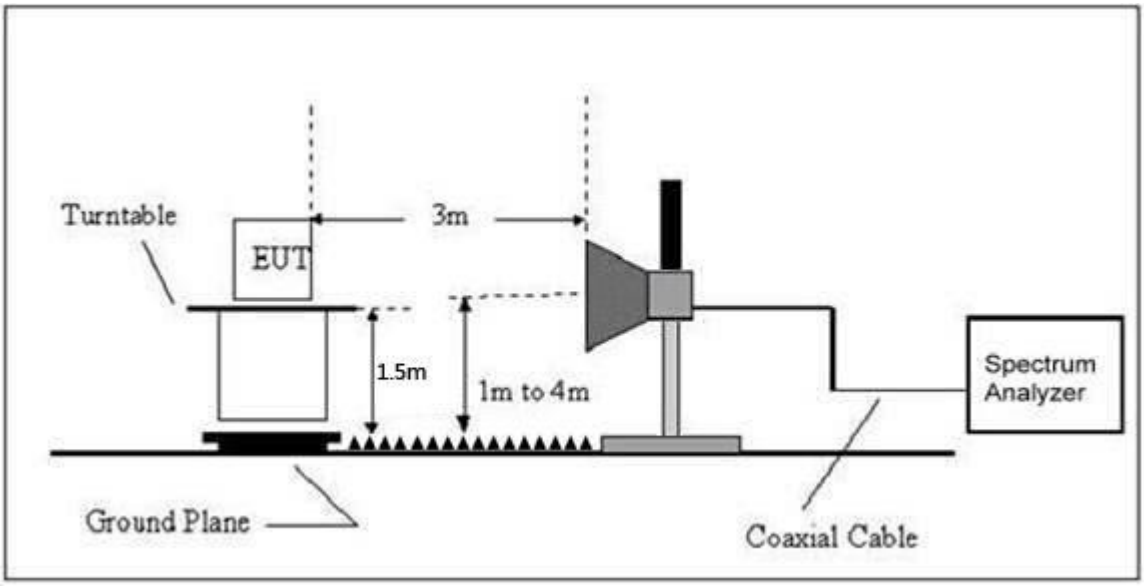
（A）Radiated Emission Test-Up Frequency Below 30MHz



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

(a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
(4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
(5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

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:
a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. 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.
d. 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.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. 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:
a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. 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.
d. 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.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. 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.
g. Test the EUT in the lowest channel, the middlest 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

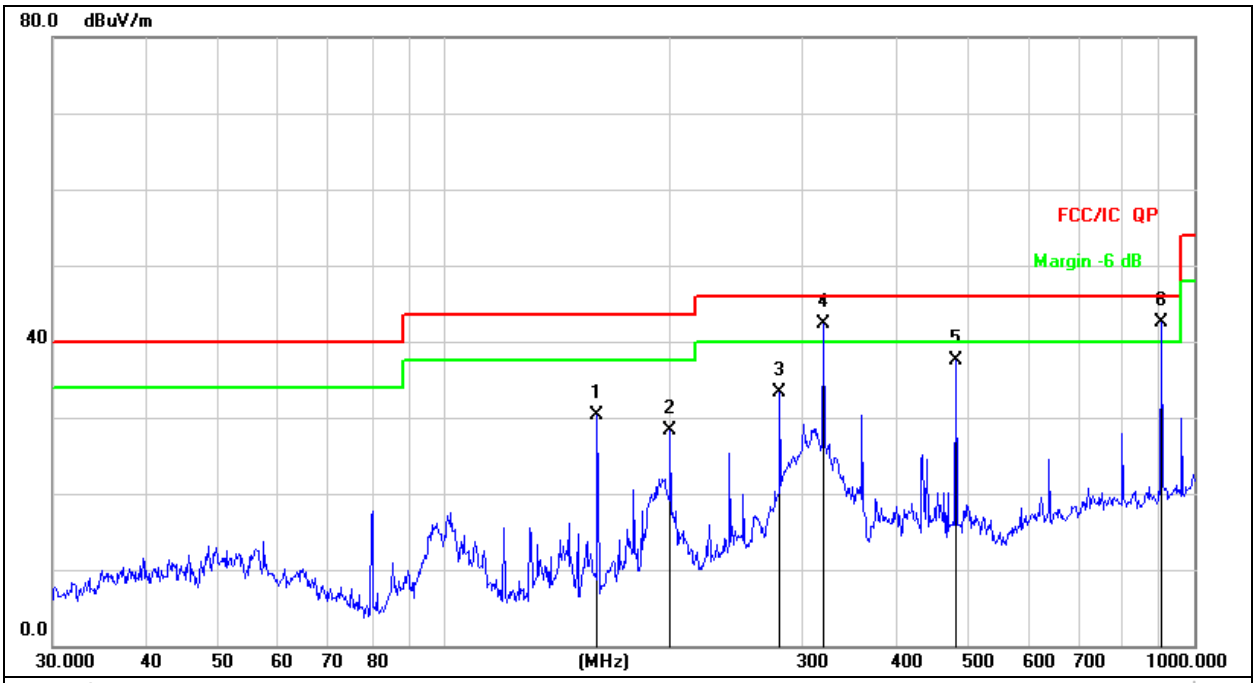
Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 10		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	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 (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

Between 30MHz – 1GHz

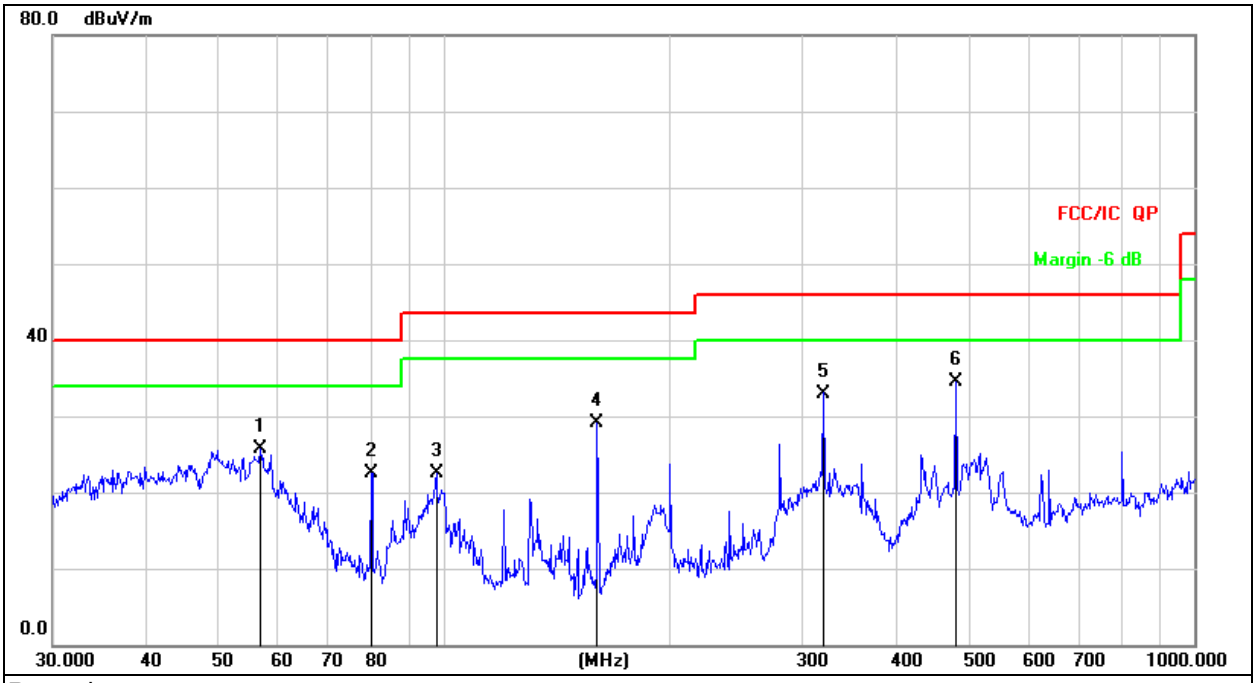
Temperature:	23 ℃	Relative Humidity:	55%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 10	Polarization:	Horizontal



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	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		159.7844	48.91	-18.70	30.21	43.50	-13.29	QP
2		199.9856	43.97	-15.72	28.25	43.50	-15.25	QP
3		280.0237	46.96	-13.66	33.30	46.00	-12.70	QP
4	!	319.9370	54.79	-12.54	42.25	46.00	-3.75	QP
5		480.5276	46.51	-9.10	37.41	46.00	-8.59	QP
6	*	903.3094	45.70	-3.11	42.59	46.00	-3.41	QP

Temperature:	23 ℃	Relative Humidity:	55%RH
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 10	Polarization:	Vertical



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	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		56.7917	40.60	-14.82	25.78	40.00	-14.22	QP
2		79.8003	42.29	-19.72	22.57	40.00	-17.43	QP
3		97.4560	38.75	-16.30	22.45	43.50	-21.05	QP
4		159.7844	47.84	-18.70	29.14	43.50	-14.36	QP
5		319.9370	45.54	-12.54	33.00	46.00	-13.00	QP
6	*	480.5276	43.67	-9.10	34.57	46.00	-11.43	QP

Between 1GHz – 25GHz

802.11b

Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low channel:2412MHz							
V	4824.00	72.18	-19.95	52.23	74.00	-21.77	PK
V	4824.00	62.01	-19.95	42.06	54.00	-11.94	AV
V	7236.00	64.84	-14.14	50.70	74.00	-23.30	PK
V	7236.00	53.94	-14.14	39.80	54.00	-14.20	AV
H	4824.00	68.87	-19.95	48.92	74.00	-25.08	PK
H	4824.00	58.92	-19.95	38.97	54.00	-15.03	AV
H	7236.00	62.06	-14.14	47.92	74.00	-26.08	PK
H	7236.00	53.92	-14.14	39.78	54.00	-14.22	AV
Middle channel:2437MHz							
V	4874.00	69.82	-19.85	49.97	74.00	-24.03	PK
V	4874.00	63.16	-19.85	43.31	54.00	-10.69	AV
V	7311.00	62.56	-13.93	48.63	74.00	-25.37	PK
V	7311.00	52.72	-13.93	38.79	54.00	-15.21	AV
H	4874.00	65.87	-19.85	46.02	74.00	-27.98	PK
H	4874.00	56.52	-19.85	36.67	54.00	-17.33	AV
H	7311.00	60.82	-13.93	46.89	74.00	-27.11	PK
H	7311.00	52.32	-13.93	38.39	54.00	-15.61	AV
High channel:2462MHz							
V	4924.00	72.47	-19.75	52.72	74.00	-21.28	PK
V	4924.00	62.08	-19.75	42.33	54.00	-11.67	AV
V	7386.00	66.05	-13.72	52.33	74.00	-21.67	PK
V	7386.00	56.08	-13.72	42.36	54.00	-11.64	AV
H	4924.00	71.36	-19.75	51.61	74.00	-22.39	PK
H	4924.00	62.23	-19.75	42.48	54.00	-11.52	AV
H	7386.00	63.60	-13.72	49.88	74.00	-24.12	PK
H	7386.00	55.67	-13.72	41.95	54.00	-12.05	AV

Remark:
1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Measurement - 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)	Measure-ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low channel:2412MHz							
V	4824.00	72.47	-19.95	52.52	74.00	-21.48	PK
V	4824.00	62.85	-19.95	42.90	54.00	-11.10	AV
V	7236.00	64.29	-14.14	50.15	74.00	-23.85	PK
V	7236.00	55.23	-14.14	41.09	54.00	-12.91	AV
H	4824.00	69.67	-19.95	49.72	74.00	-24.28	PK
H	4824.00	58.88	-19.95	38.93	54.00	-15.07	AV
H	7236.00	61.38	-14.14	47.24	74.00	-26.76	PK
H	7236.00	53.21	-14.14	39.07	54.00	-14.93	AV
Middle channel:2437MHz							
V	4874.00	70.00	-19.85	50.15	74.00	-23.85	PK
V	4874.00	62.34	-19.85	42.49	54.00	-11.51	AV
V	7311.00	60.87	-13.93	46.94	74.00	-27.06	PK
V	7311.00	51.91	-13.93	37.98	54.00	-16.02	AV
H	4874.00	68.10	-19.85	48.25	74.00	-25.75	PK
H	4874.00	58.02	-19.85	38.17	54.00	-15.83	AV
H	7311.00	58.03	-13.93	44.10	74.00	-29.90	PK
H	7311.00	49.38	-13.93	35.45	54.00	-18.55	AV
High channel:2462MHz							
V	4924.00	71.22	-19.75	51.47	74.00	-22.53	PK
V	4924.00	61.22	-19.75	41.47	54.00	-12.53	AV
V	7386.00	64.75	-13.72	51.03	74.00	-22.97	PK
V	7386.00	55.66	-13.72	41.94	54.00	-12.06	AV
H	4924.00	69.61	-19.75	49.86	74.00	-24.14	PK
H	4924.00	59.12	-19.75	39.37	54.00	-14.63	AV
H	7386.00	63.43	-13.72	49.71	74.00	-24.29	PK
H	7386.00	54.46	-13.72	40.74	54.00	-13.26	AV

Remark:
1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Measurement - 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

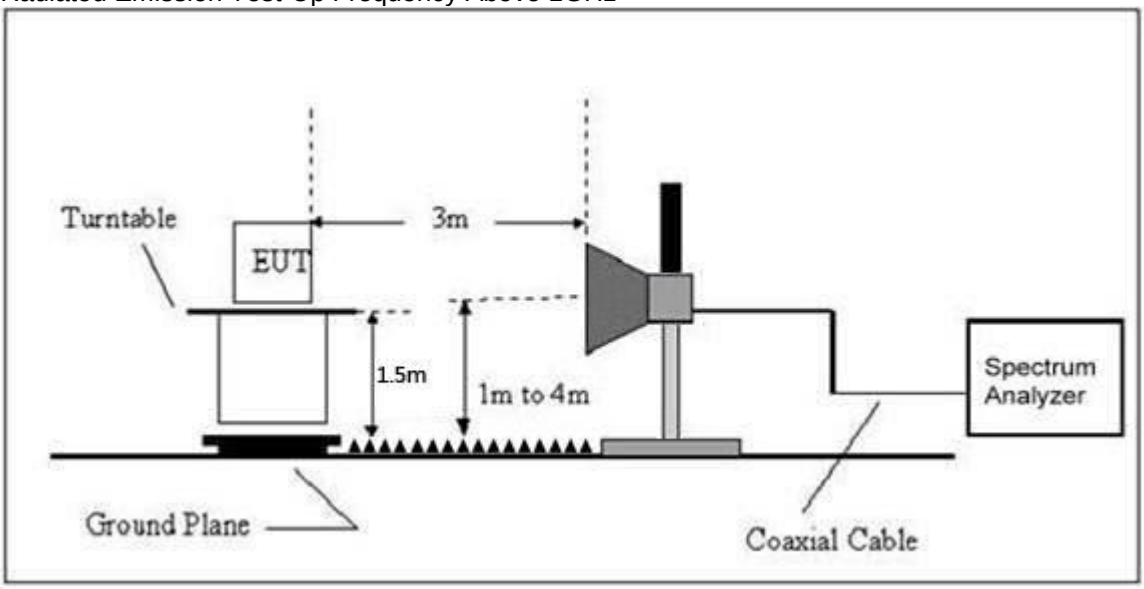
Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low channel:2412MHz							
V	4824.00	72.49	-19.95	52.54	74.00	-21.46	PK
V	4824.00	63.17	-19.95	43.22	54.00	-10.78	AV
V	7236.00	62.48	-14.14	48.34	74.00	-25.66	PK
V	7236.00	52.06	-14.14	37.92	54.00	-16.08	AV
H	4824.00	68.40	-19.95	48.45	74.00	-25.55	PK
H	4824.00	58.57	-19.95	38.62	54.00	-15.38	AV
H	7236.00	59.90	-14.14	45.76	74.00	-28.24	PK
H	7236.00	52.58	-14.14	38.44	54.00	-15.56	AV
Middle channel:2437MHz							
V	4874.00	69.23	-19.85	49.38	74.00	-24.62	PK
V	4874.00	60.40	-19.85	40.55	54.00	-13.45	AV
V	7311.00	59.92	-13.93	45.99	74.00	-28.01	PK
V	7311.00	50.34	-13.93	36.41	54.00	-17.59	AV
H	4874.00	67.55	-19.85	47.70	74.00	-26.30	PK
H	4874.00	58.20	-19.85	38.35	54.00	-15.65	AV
H	7311.00	58.91	-13.93	44.98	74.00	-29.02	PK
H	7311.00	51.86	-13.93	37.93	54.00	-16.07	AV
High channel:2462MHz							
V	4924.00	71.56	-19.75	51.81	74.00	-22.19	PK
V	4924.00	62.20	-19.75	42.45	54.00	-11.55	AV
V	7386.00	65.24	-13.72	51.52	74.00	-22.48	PK
V	7386.00	55.52	-13.72	41.80	54.00	-12.20	AV
H	4924.00	69.42	-19.75	49.67	74.00	-24.33	PK
H	4924.00	59.18	-19.75	39.43	54.00	-14.57	AV
H	7386.00	64.08	-13.72	50.36	74.00	-23.64	PK
H	7386.00	57.05	-13.72	43.33	54.00	-10.67	AV

Remark:
1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Measurement - 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.
5.All the Modulation are test, the worst mode is 802.11g, the data recording in the report.

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
[1]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	([2])
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:
a.The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c.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.
d.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.
e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. 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.
g. 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.

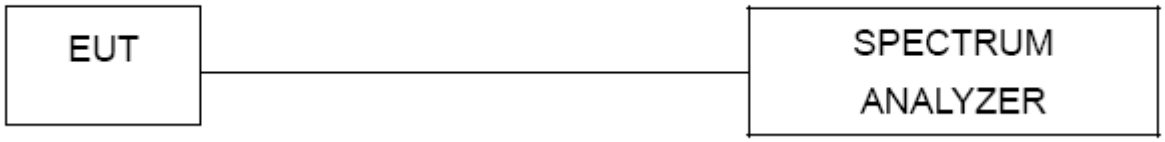
8.5 Test Result

Test mode	Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure-ment (dBuV/m)	Measure-ment (dBuV/m)		Over	Result
					PK	PK	AV	PK	
802.11b	Low Channel 2412MHz								
	H	2390.00	73.70	-25.43	48.27	74.00	54.00	-25.73	PASS
	H	2400.00	75.39	-25.40	49.99	74.00	54.00	-24.01	PASS
	V	2390.00	73.87	-25.43	48.44	74.00	54.00	-25.56	PASS
	V	2400.00	74.23	-25.40	48.83	74.00	54.00	-25.17	PASS
	High Channel 2462MHz								
	H	2483.50	74.05	-25.15	48.90	74.00	54.00	-25.10	PASS
	H	2500.00	69.63	-25.10	44.53	74.00	54.00	-29.47	PASS
	V	2483.50	72.61	-25.15	47.46	74.00	54.00	-26.54	PASS
	V	2500.00	68.70	-25.10	43.60	74.00	54.00	-30.40	PASS
802.11g	Low Channel 2412MHz								
	H	2390.00	72.43	-25.43	47.00	74.00	54.00	-27.00	PASS
	H	2400.00	73.59	-25.40	48.19	74.00	54.00	-25.81	PASS
	V	2390.00	72.49	-25.43	47.06	74.00	54.00	-26.94	PASS
	V	2400.00	73.25	-25.40	47.85	74.00	54.00	-26.15	PASS
	High Channel 2462MHz								
	H	2483.50	70.47	-25.15	45.32	74.00	54.00	-28.68	PASS
	H	2500.00	68.53	-25.10	43.43	74.00	54.00	-30.57	PASS
	V	2483.50	71.63	-25.15	46.48	74.00	54.00	-27.52	PASS
	V	2500.00	67.01	-25.10	41.91	74.00	54.00	-32.09	PASS
802.11 n20	Low Channel 2412MHz								
	H	2390.00	72.54	-25.43	47.11	74.00	54.00	-26.89	PASS
	H	2400.00	74.15	-25.40	48.75	74.00	54.00	-25.25	PASS
	V	2390.00	72.94	-25.43	47.51	74.00	54.00	-26.49	PASS
	V	2400.00	73.78	-25.40	48.38	74.00	54.00	-25.62	PASS
	High Channel 2462MHz								
	H	2483.50	72.80	-25.15	47.65	74.00	54.00	-26.35	PASS
	H	2500.00	69.43	-25.10	44.33	74.00	54.00	-29.67	PASS
	V	2483.50	71.27	-25.15	46.12	74.00	54.00	-27.88	PASS
	V	2500.00	68.03	-25.10	42.93	74.00	54.00	-31.07	PASS

Remark:
1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier.
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 ≥ 3 x 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

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage :	DC 3.7V

Test Mode	Frequency	Power Spectral Density (dBm/10kHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
TX b Mode	2412 MHz	-5.78	-11.01	8	PASS
	2437 MHz	-4.16	-9.39	8	PASS
	2462 MHz	-10.70	-15.93	8	PASS
TX g Mode	2412 MHz	-11.59	-16.82	8	PASS
	2437 MHz	-10.97	-16.20	8	PASS
	2462 MHz	-12.41	-17.64	8	PASS
TX n Mode(20M)	2412 MHz	-13.04	-18.27	8	PASS
	2437 MHz	-12.95	-18.18	8	PASS
	2462 MHz	-14.02	-19.25	8	PASS
Note: Correction Factor = 10log(3KHz/RBW in measurement) =-5.23 Power Spectral Density (dBm/3kHz= Power Spectral Density (dBm/10kHz)-5.23					

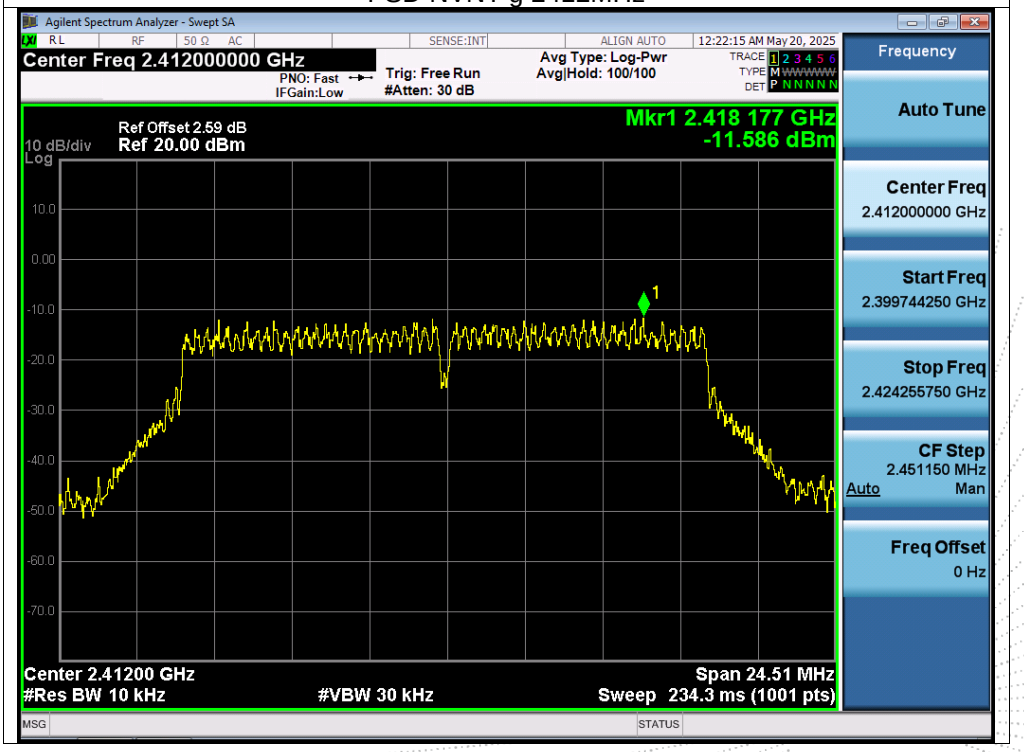
Test Graphs

PSD NVNT b 2412MHz

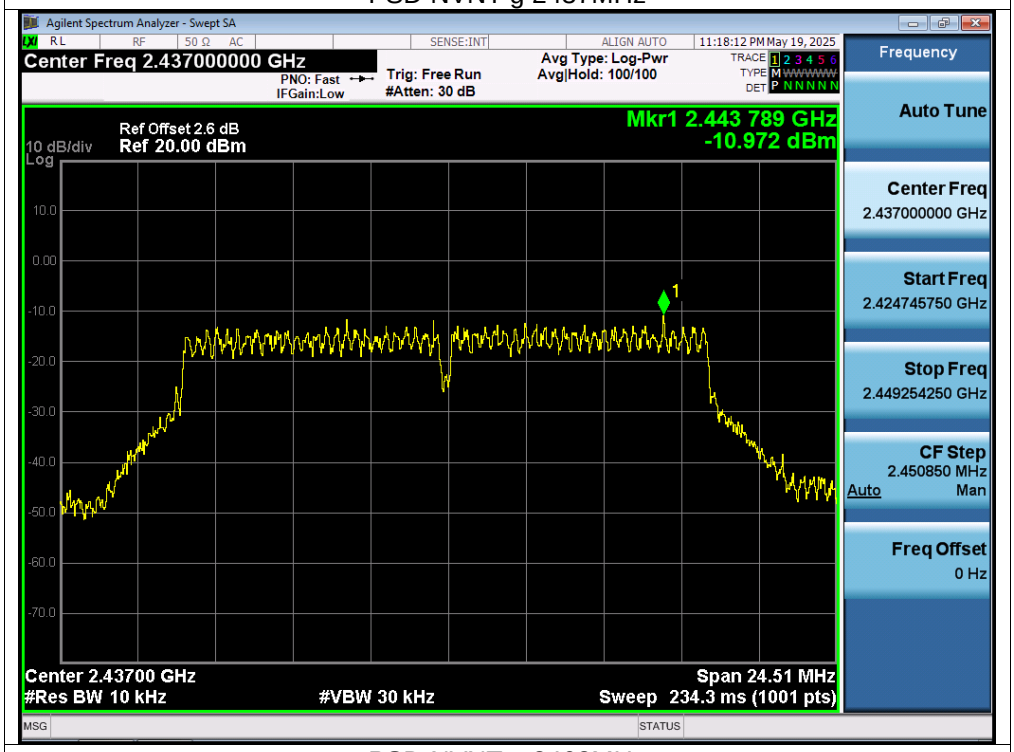
PSD NVNT b 2437MHz

PSD NVNT b 2462MHz

PSD NVNT g 2412MHz

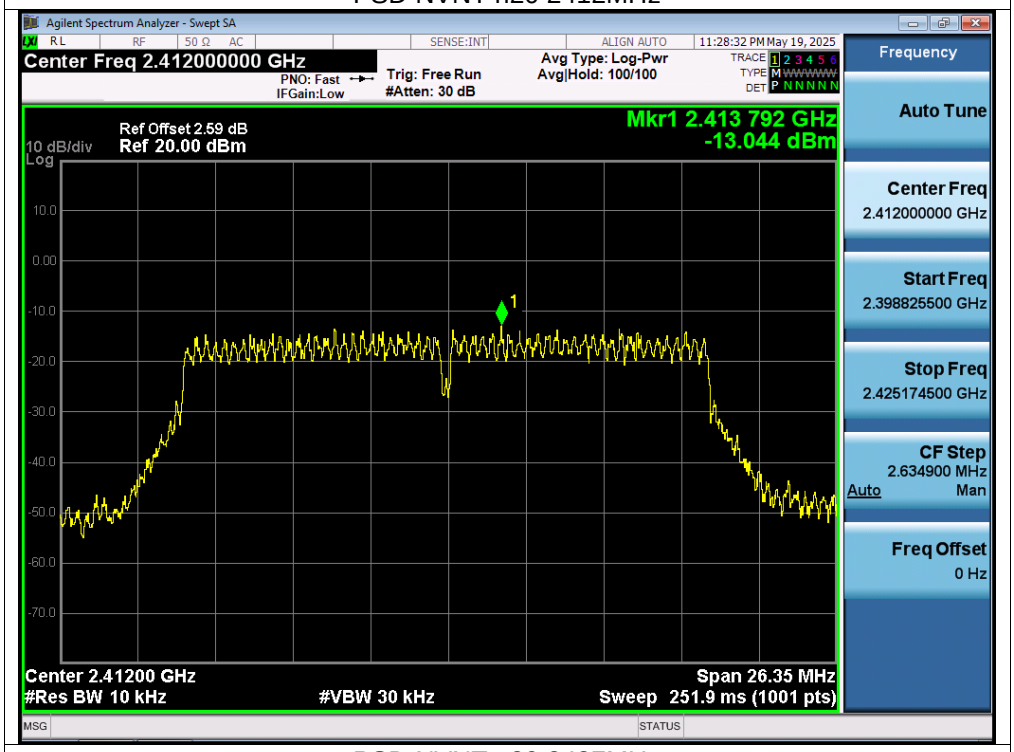


PSD NVNT g 2437MHz

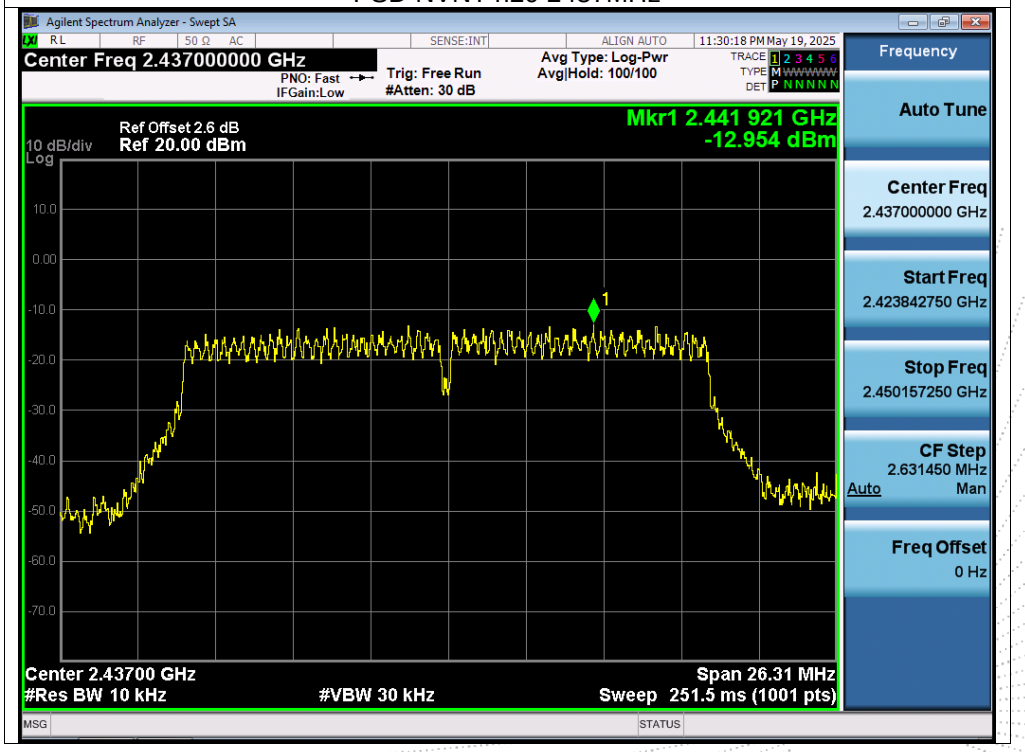


PSD NVNT g 2462MHz

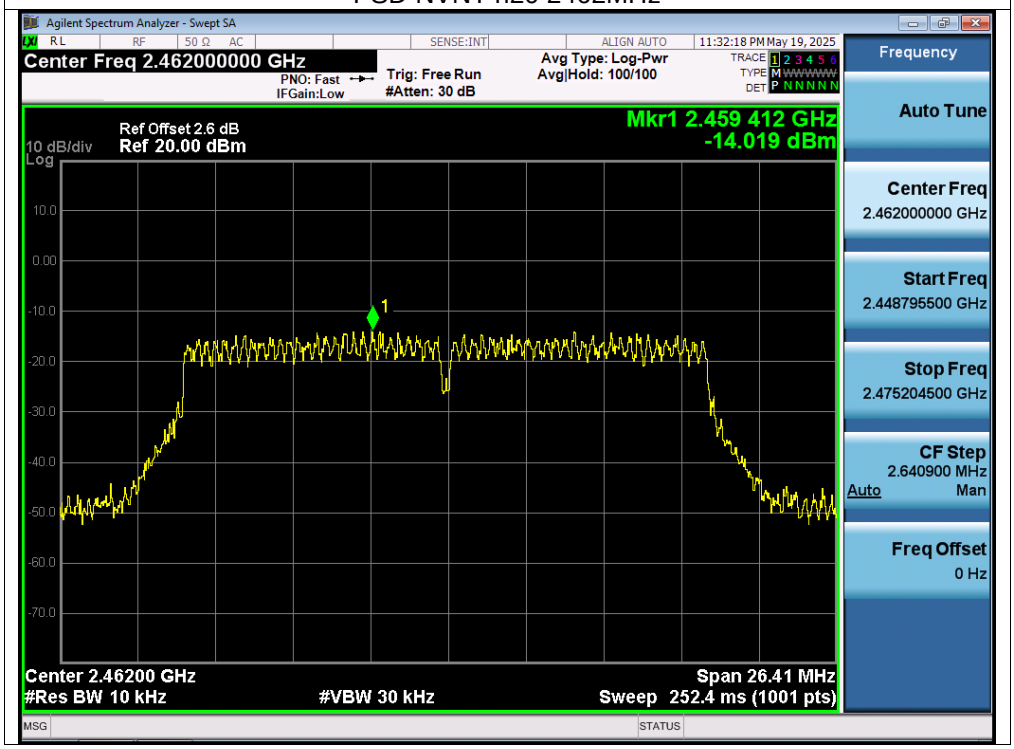
PSD NVNT n20 2412MHz



PSD NVNT n20 2437MHz

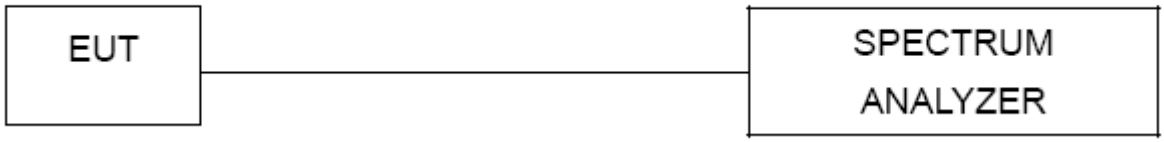


PSD NVNT n20 2462MHz



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	>= 500KHz (-6dB bandwidth)	2400-2483.5	PASS

10.3 Test procedure

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x 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

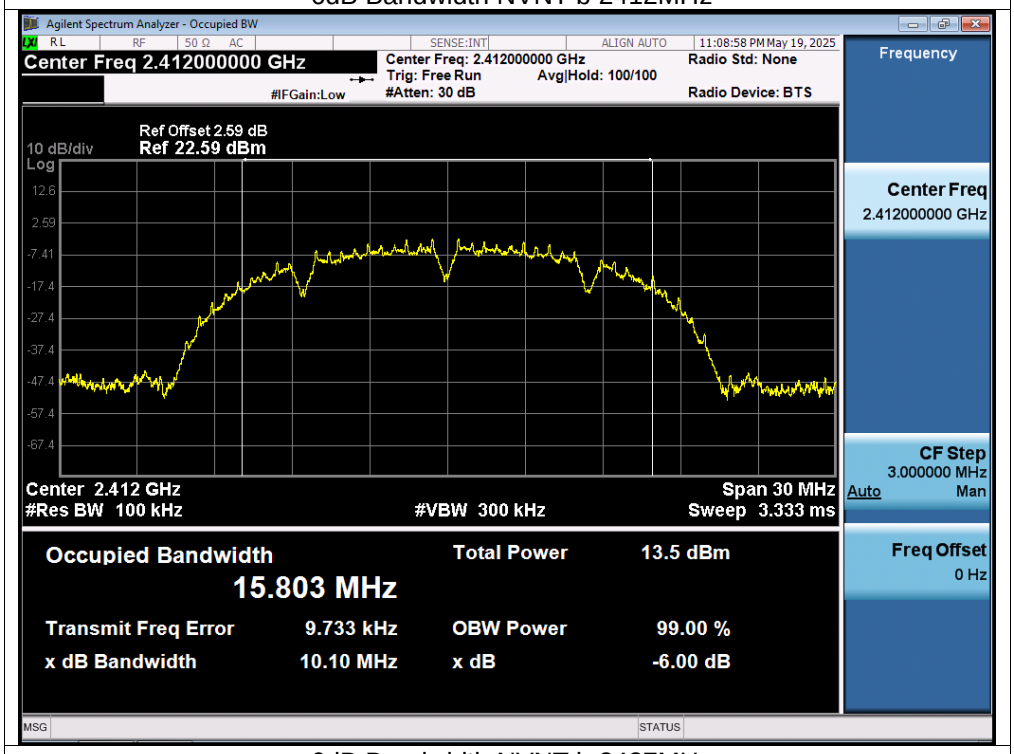
10.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage :	DC 3.7V

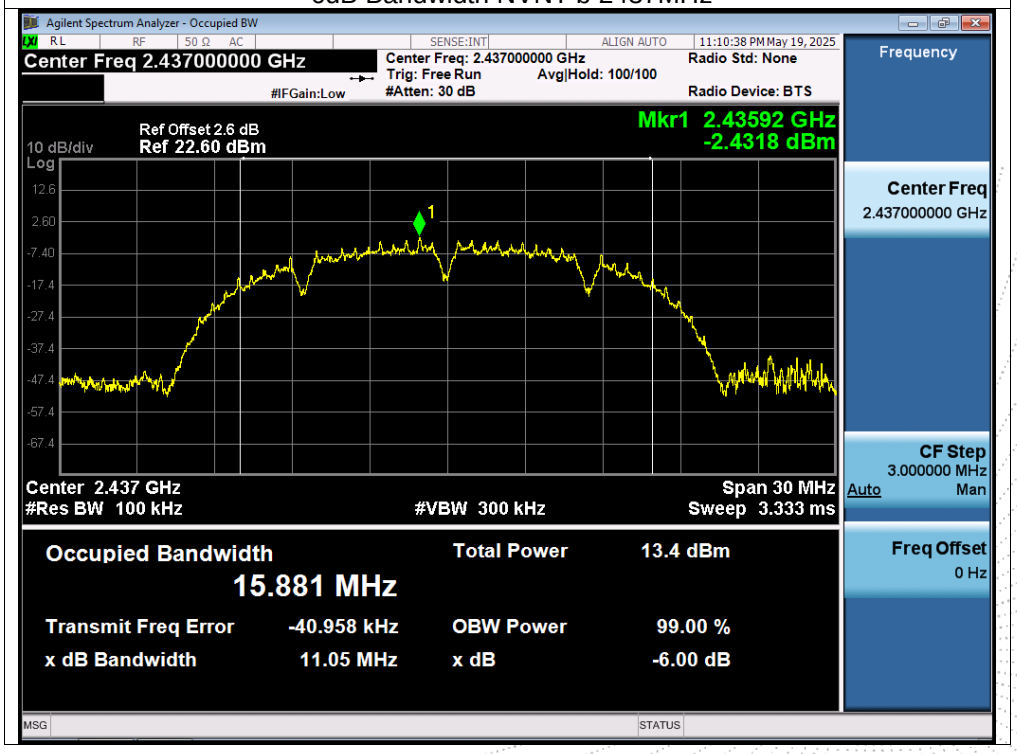
Test Mode	Frequency (MHz)	-6dB bandwidth (MHz)	Limit (kHz)	Result
TX b Mode	2412	10.095	500	Pass
	2437	11.049	500	Pass
	2462	10.076	500	Pass
TX g Mode	2412	16.341	500	Pass
	2437	16.339	500	Pass
	2462	16.38	500	Pass
TX n Mode(20M)	2412	17.566	500	Pass
	2437	17.543	500	Pass
	2462	17.606	500	Pass

Test Graphs

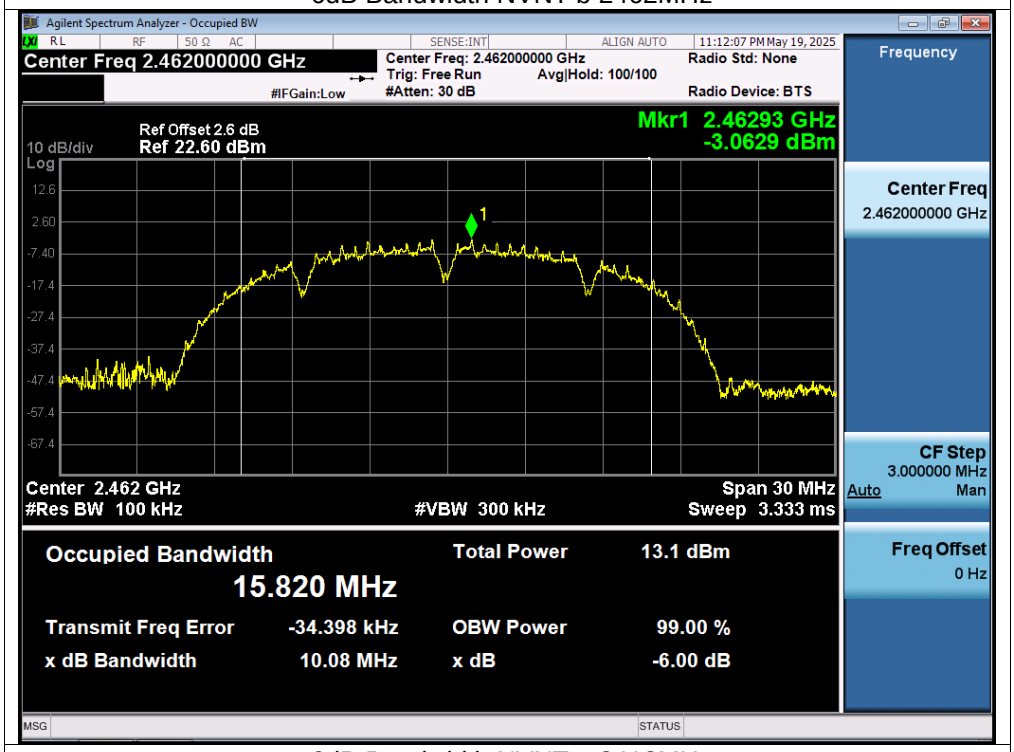
-6dB Bandwidth NVNT b 2412MHz



-6dB Bandwidth NVNT b 2437MHz

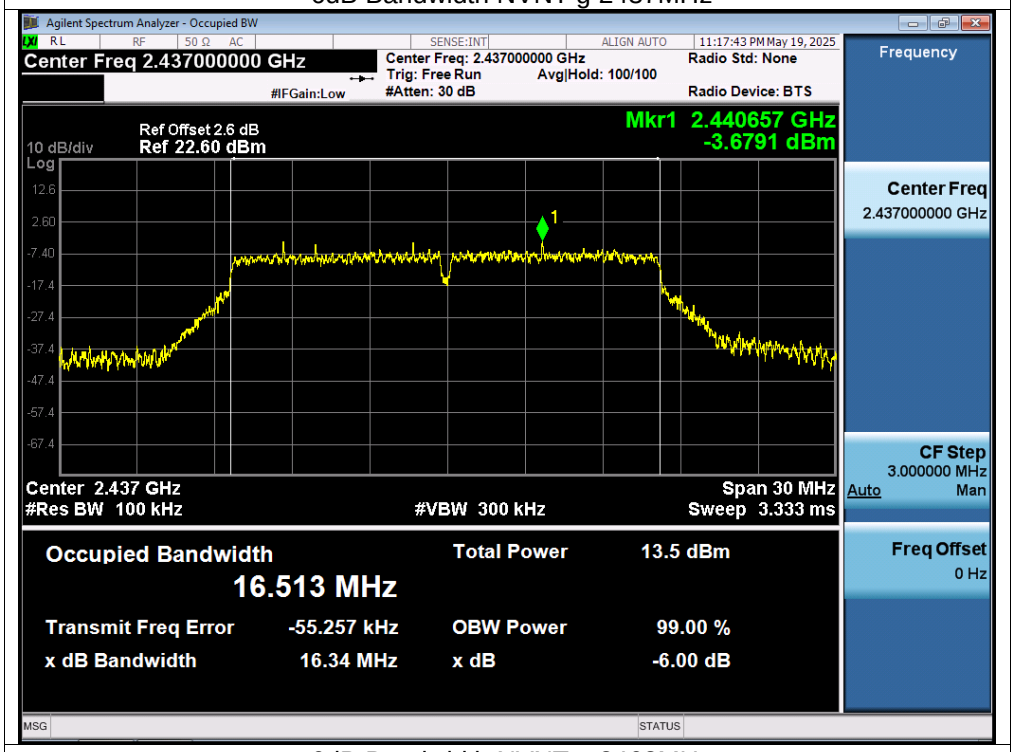


-6dB Bandwidth NVNT b 2462MHz



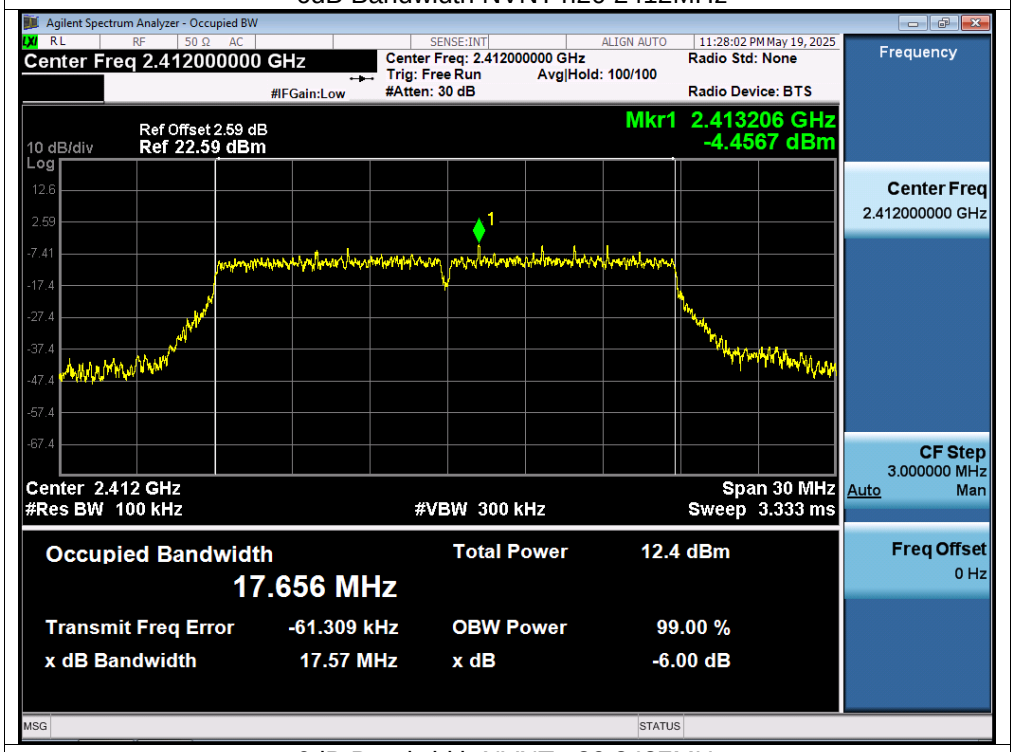
-6dB Bandwidth NVNT g 2412MHz

-6dB Bandwidth NVNT g 2437MHz

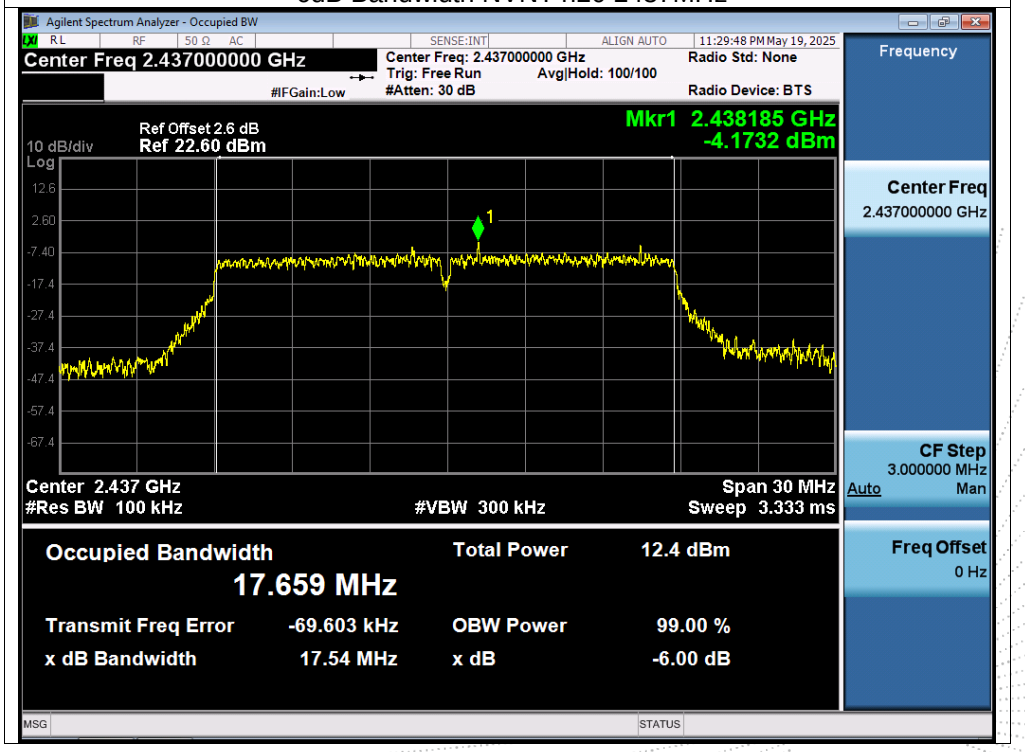


-6dB Bandwidth NVNT g 2462MHz

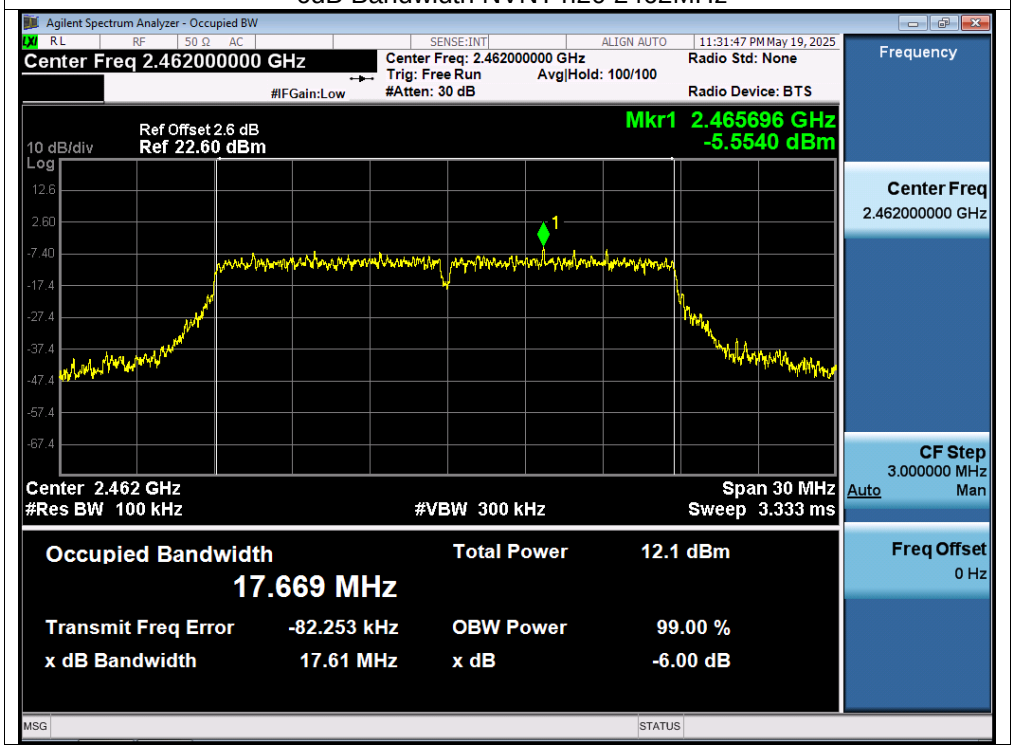
-6dB Bandwidth NVNT n20 2412MHz



-6dB Bandwidth NVNT n20 2437MHz



-6dB Bandwidth NVNT n20 2462MHz



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

a. 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

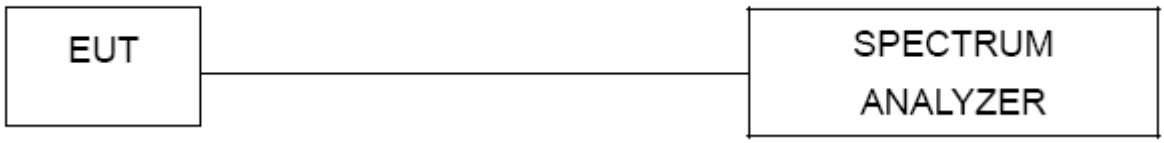
11.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage:	DC 3.7V

Test Mode	Frequency(MHz)	Maximum Conducted Output Power(PK) (dBm)	Limit (dBm)
802.11b	2412	8.43	30
	2437	8.26	30
	2462	8.18	30
802.11g	2412	7.94	30
	2437	7.62	30
	2462	7.60	30
802.11n20	2412	6.47	30
	2437	6.62	30
	2462	6.20	30

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

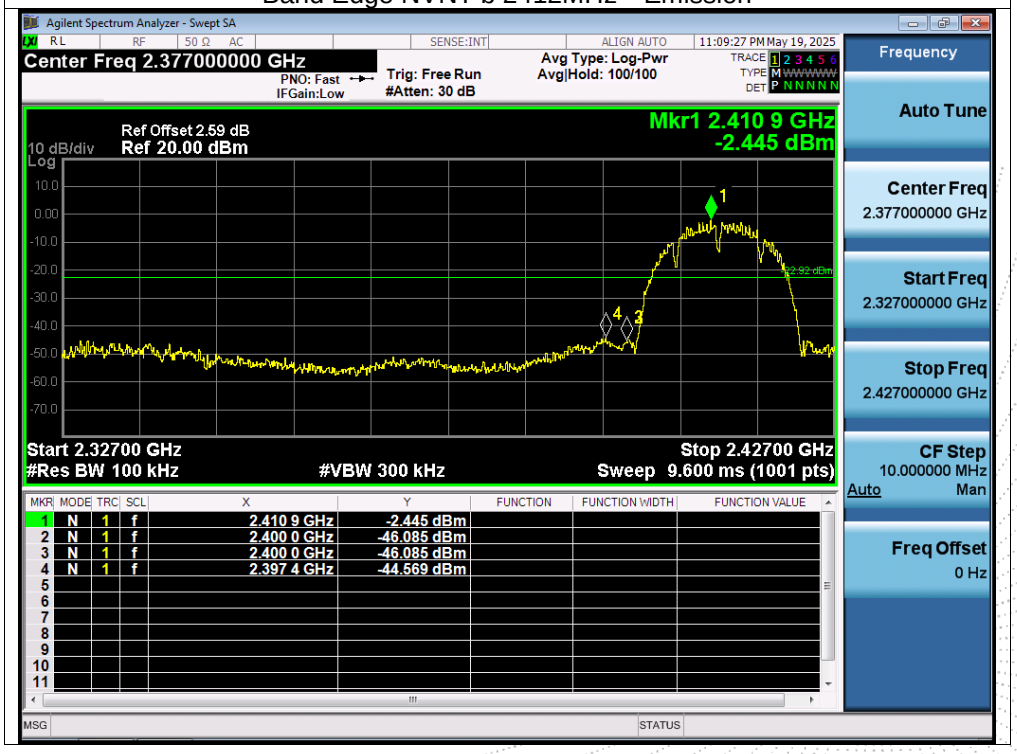
12.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage :	DC 3.7V

Test Graphs

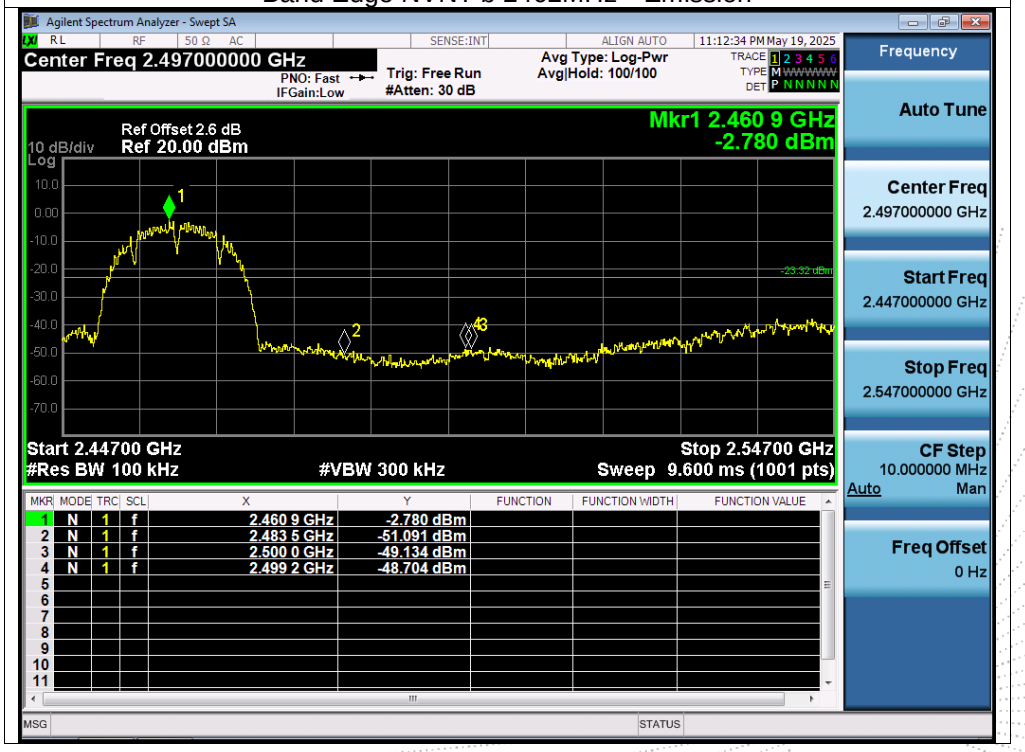
Band Edge NVNT b 2412MHz Ref

Band Edge NVNT b 2412MHz Emission



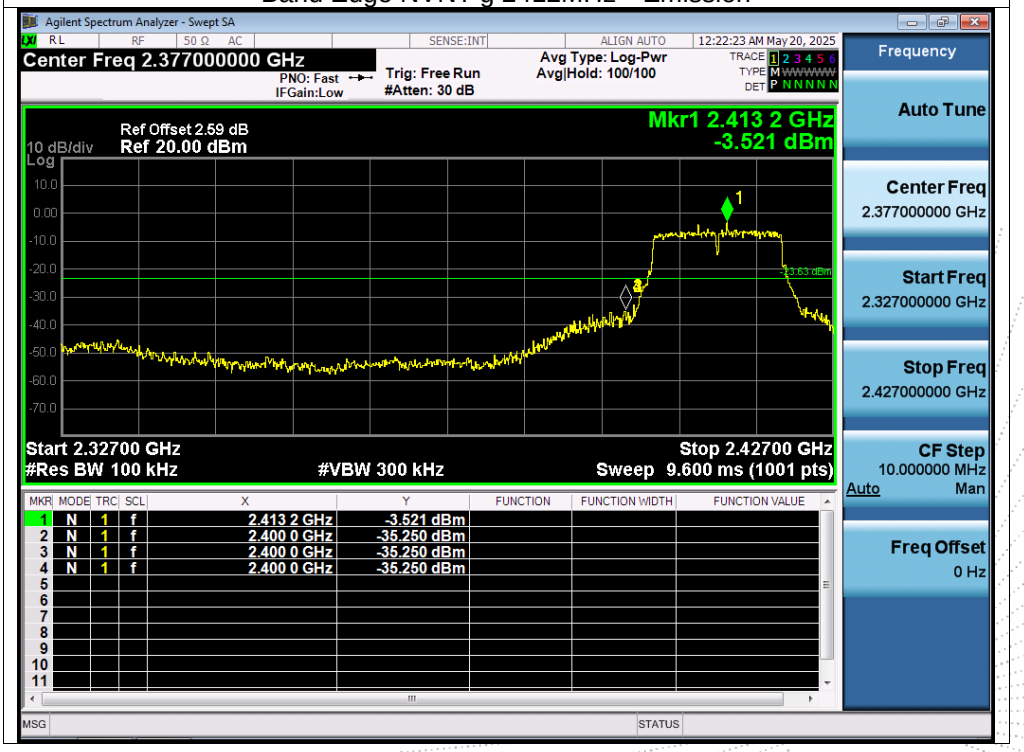
Band Edge NVNT b 2462MHz Ref

Band Edge NVNT b 2462MHz Emission



Band Edge NVNT g 2412MHz Ref

Band Edge NVNT g 2412MHz Emission

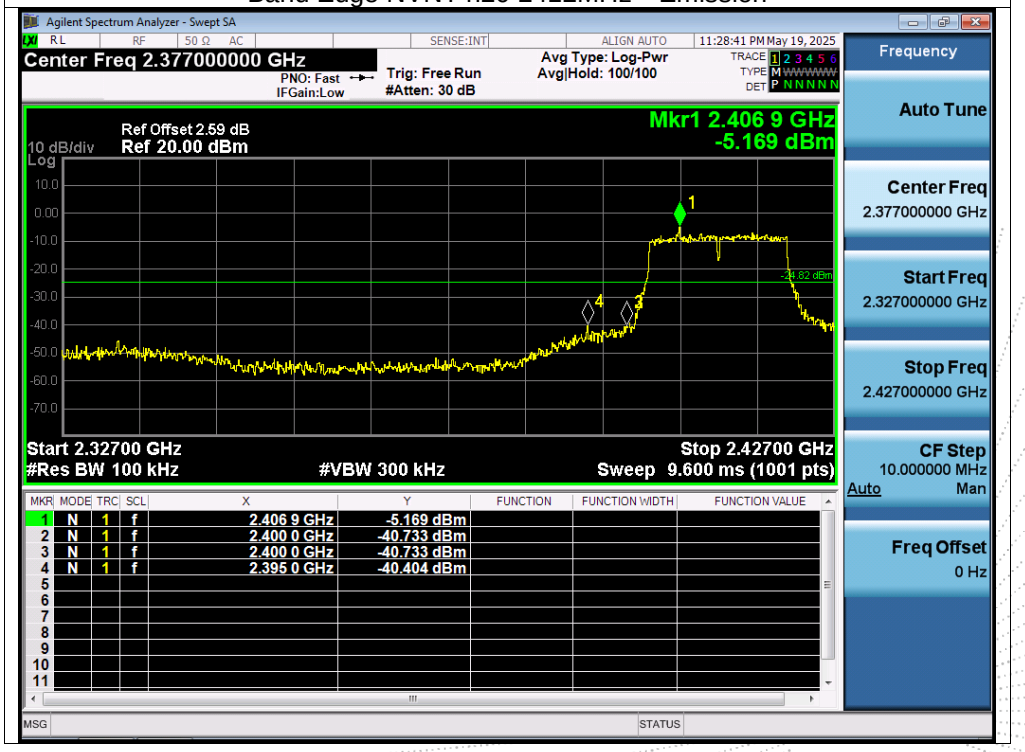


Band Edge NVNT g 2462MHz Ref

Band Edge NVNT g 2462MHz Emission

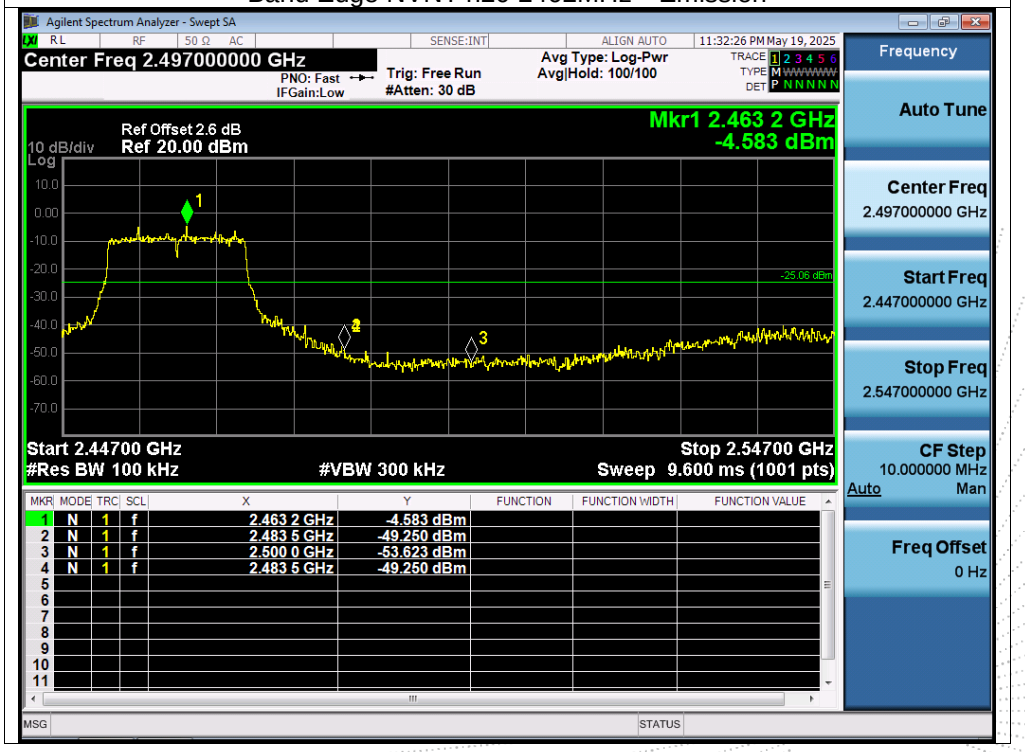
Band Edge NVNT n20 2412MHz Ref

Band Edge NVNT n20 2412MHz Emission



Band Edge NVNT n20 2462MHz Ref

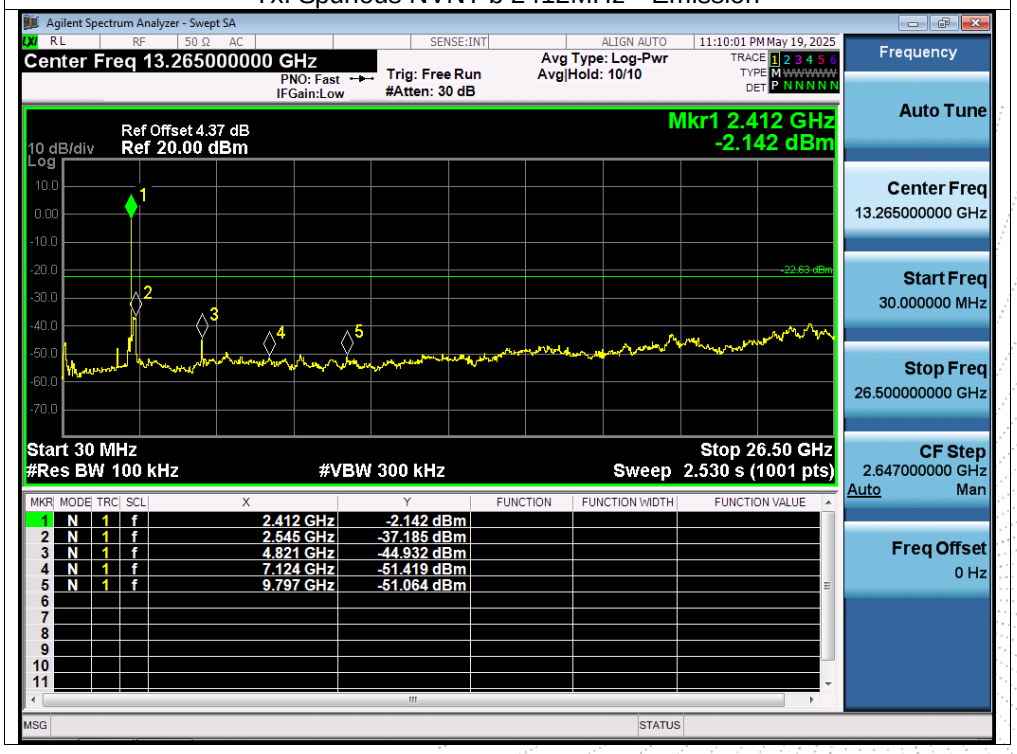
Band Edge NVNT n20 2462MHz Emission



Test Graphs

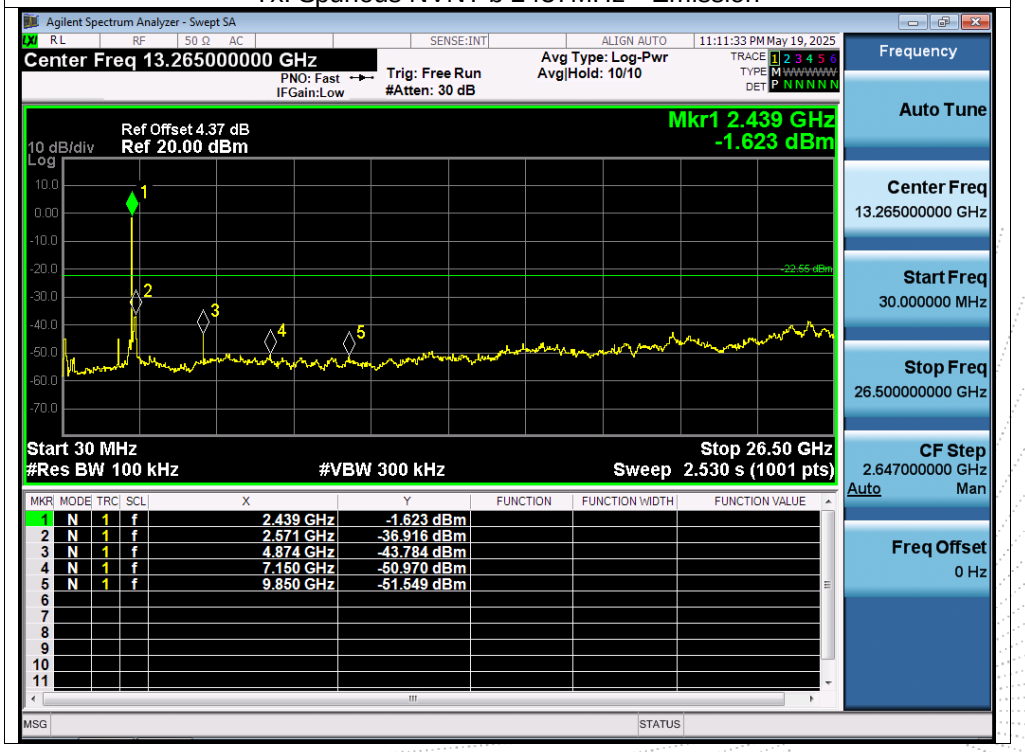
Tx. Spurious NVNT b 2412MHz Ref

Tx. Spurious NVNT b 2412MHz Emission



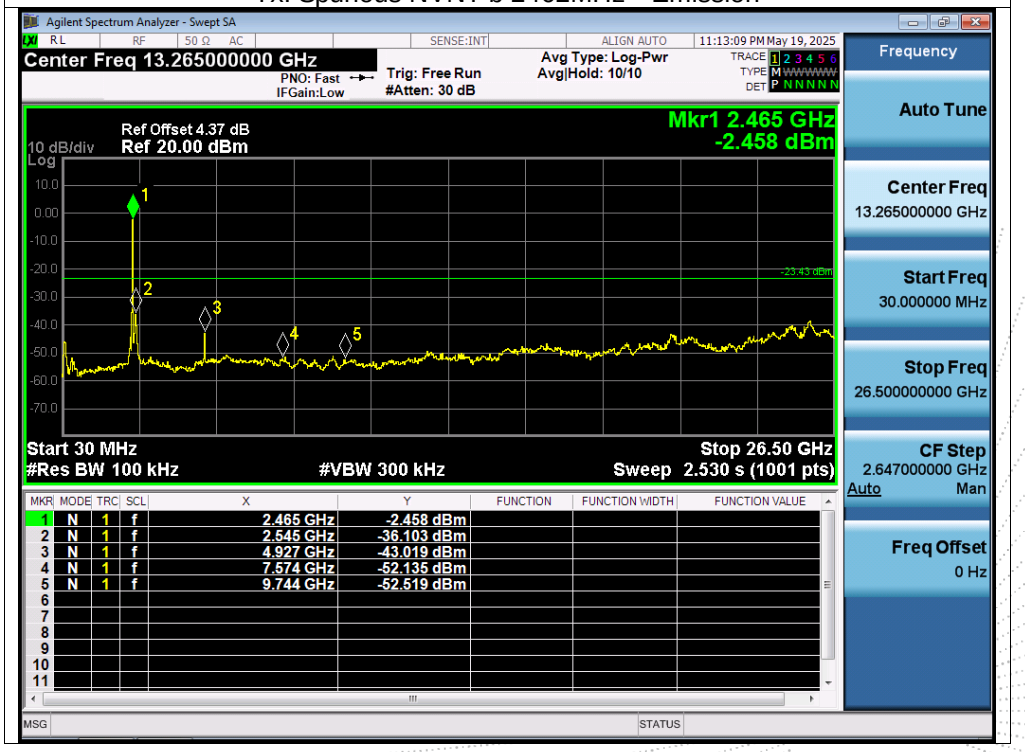
Tx. Spurious NVNT b 2437MHz Ref

Tx. Spurious NVNT b 2437MHz Emission



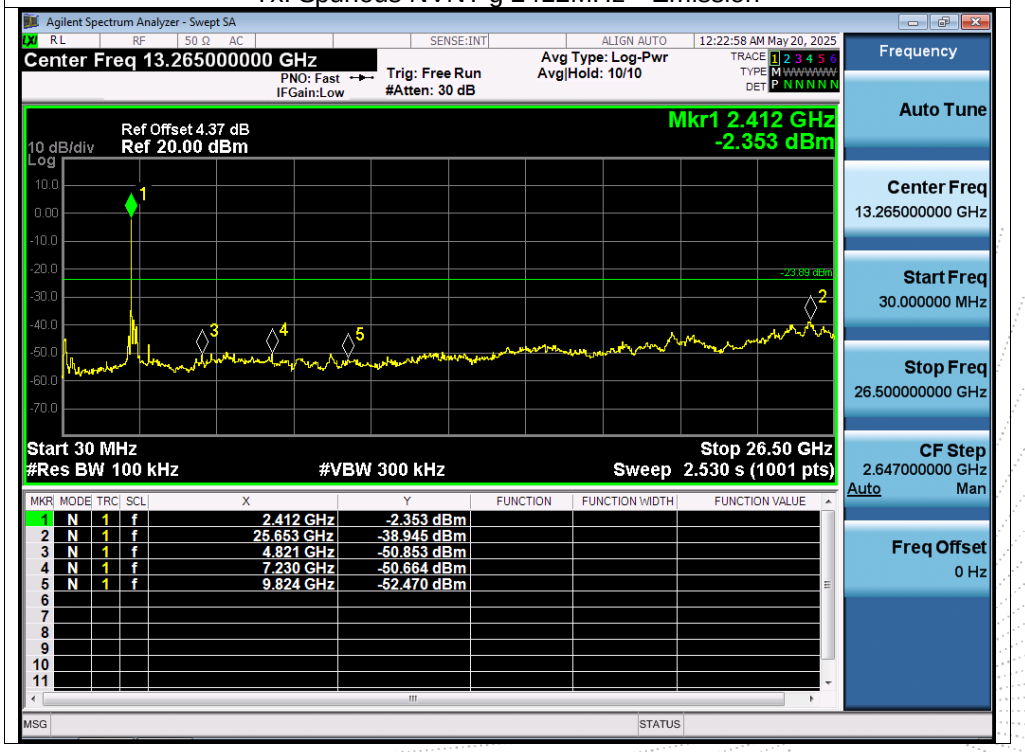
Tx. Spurious NVNT b 2462MHz Ref

Tx. Spurious NVNT b 2462MHz Emission



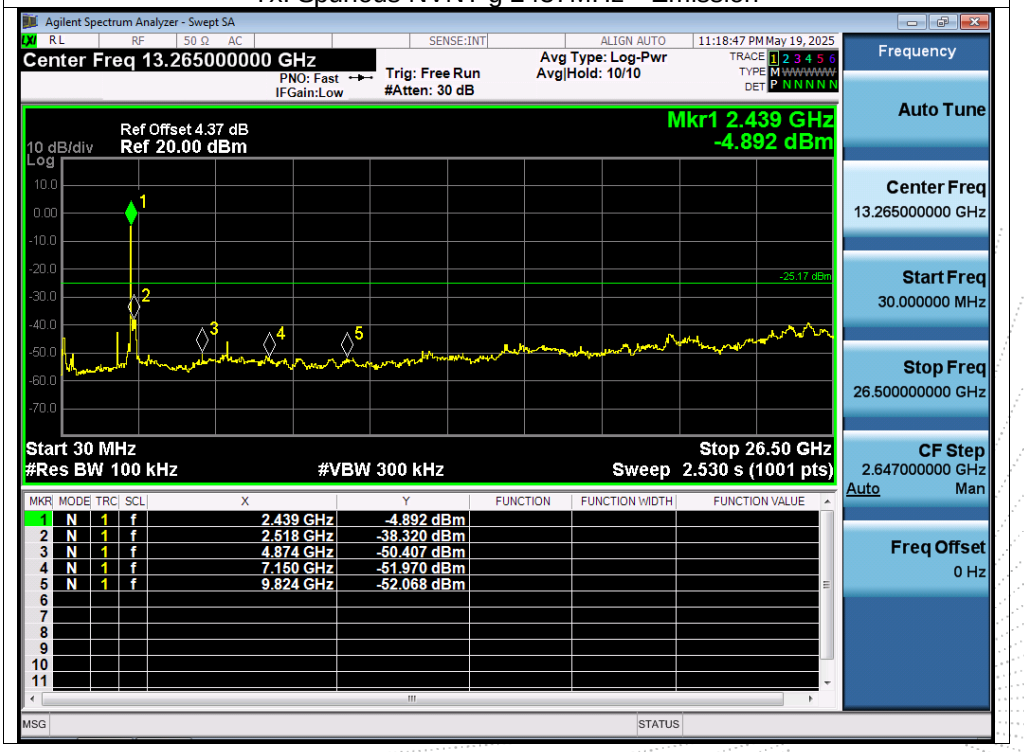
Tx. Spurious NVNT g 2412MHz Ref

Tx. Spurious NVNT g 2412MHz Emission



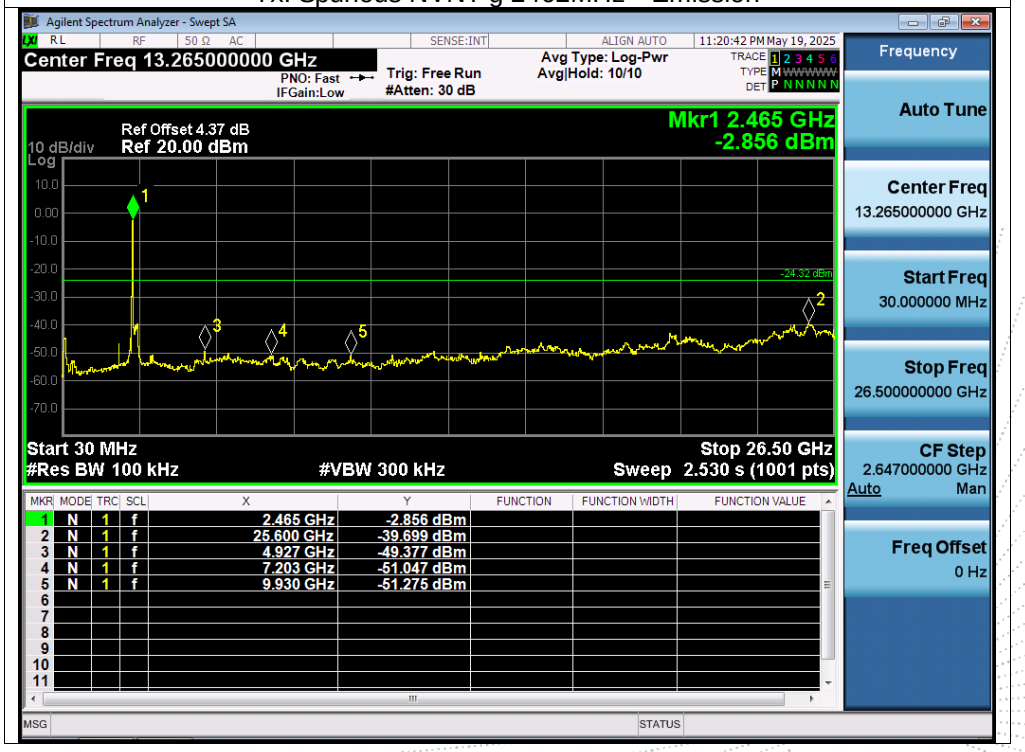
Tx. Spurious NVNT g 2437MHz Ref

Tx. Spurious NVNT g 2437MHz Emission

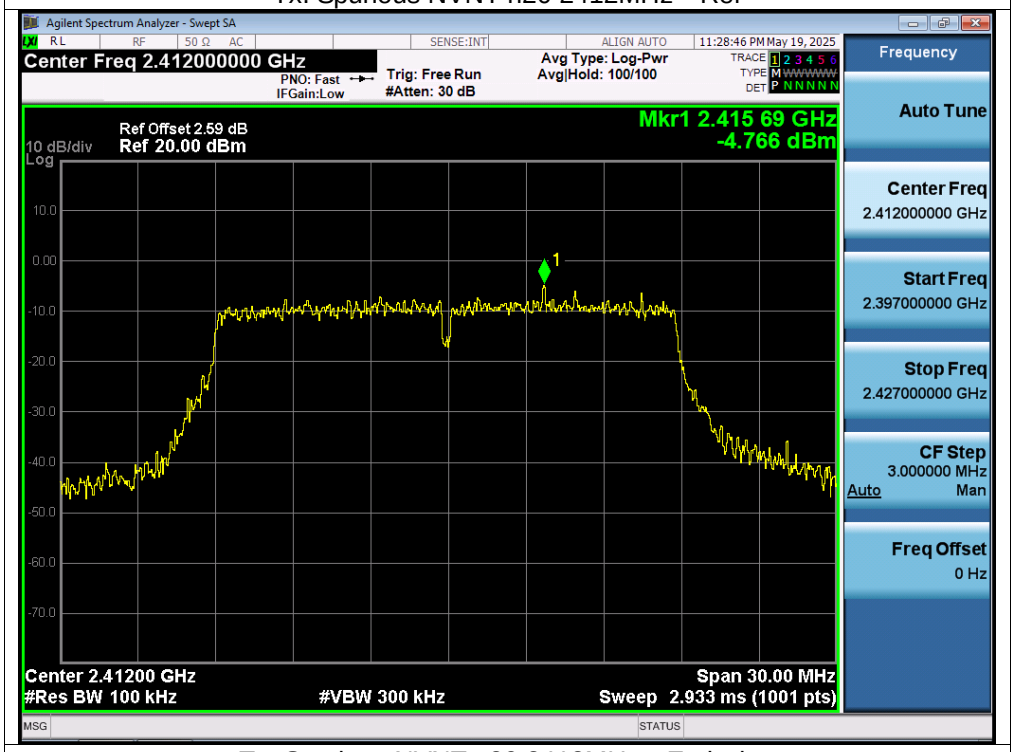


Tx. Spurious NVNT g 2462MHz Ref

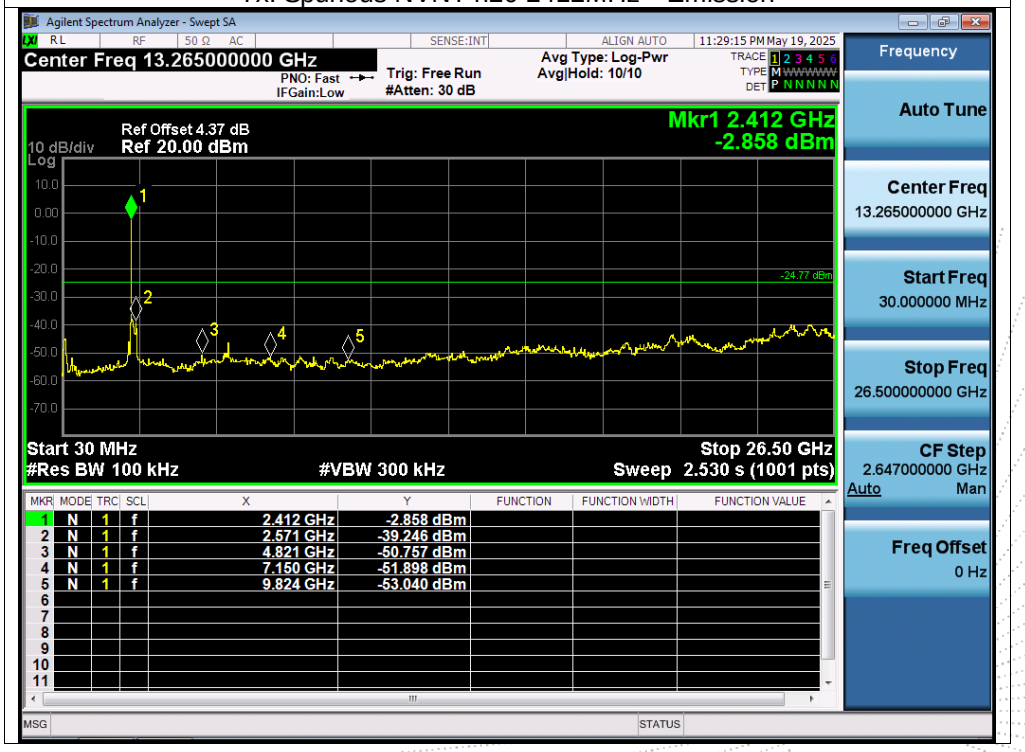
Tx. Spurious NVNT g 2462MHz Emission



Tx. Spurious NVNT n20 2412MHz Ref

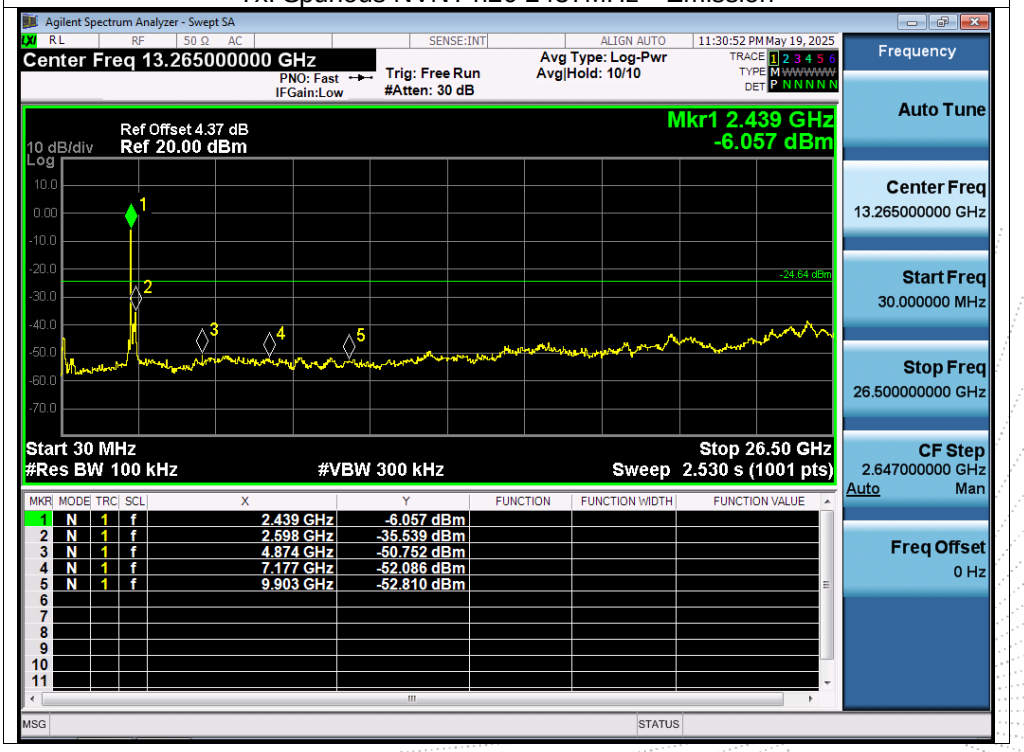


Tx. Spurious NVNT n20 2412MHz Emission



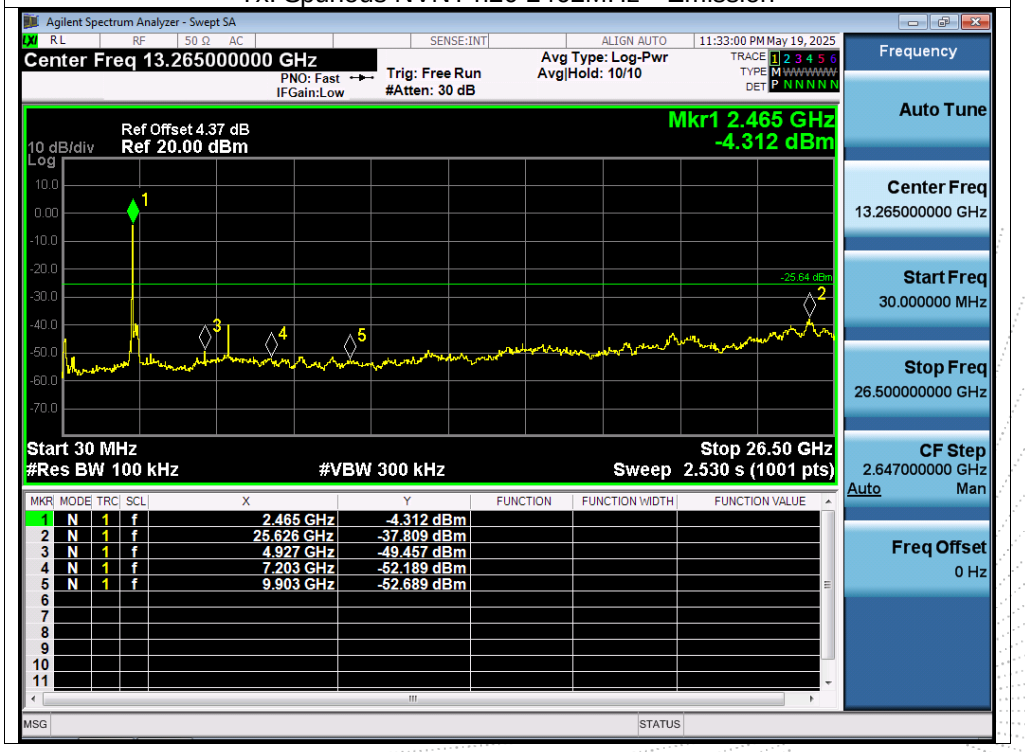
Tx. Spurious NVNT n20 2437MHz Ref

Tx. Spurious NVNT n20 2437MHz Emission



Tx. Spurious NVNT n20 2462MHz Ref

Tx. Spurious NVNT n20 2462MHz Emission



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 = Ton / (Ton+Toff)

13.3 Test Procedure

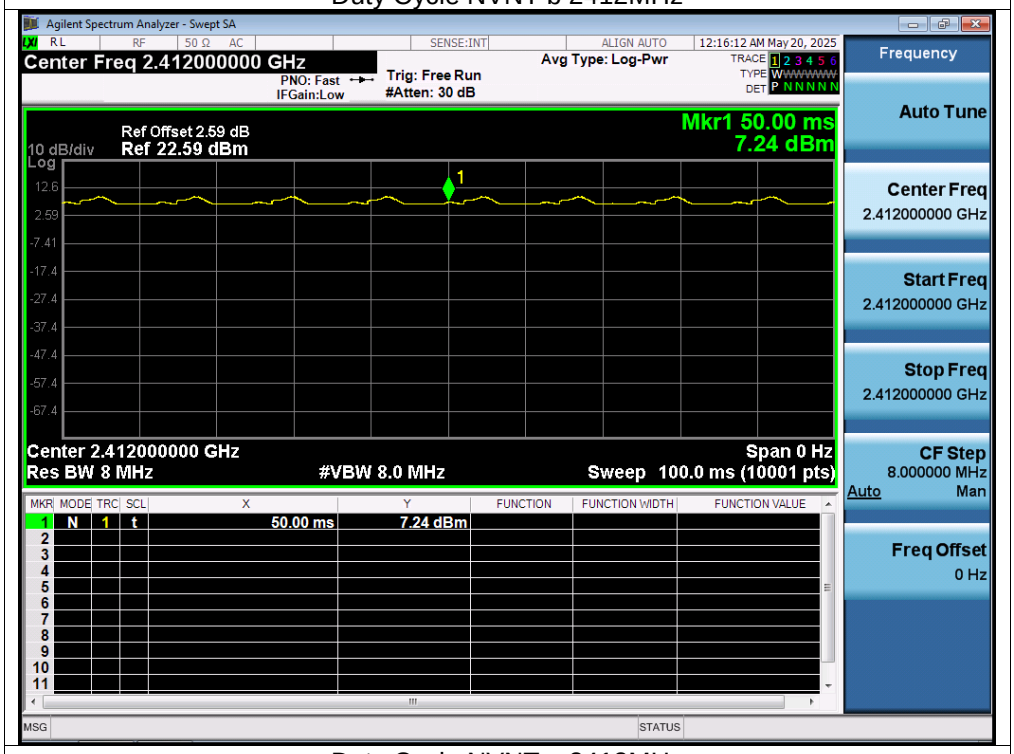
1.Set span = Zero
2. RBW = 10MHz
3. VBW = 10MHz,
4. Detector = Peak

13.4 Test Result

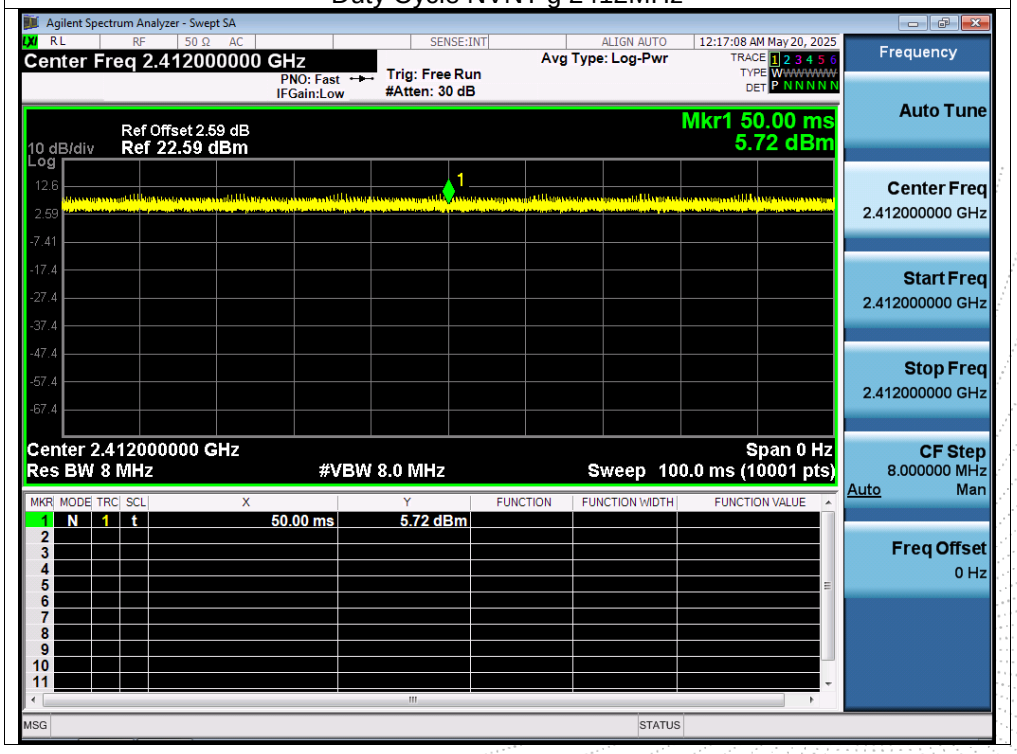
Test mode	Frequency (MHz)	Duty Cycle(%)	Duty Fator(dB)
802.11b	2412	100	0
802.11g	2412	100	0
802.11n(HT20)	2412	100	0

Test Graphs

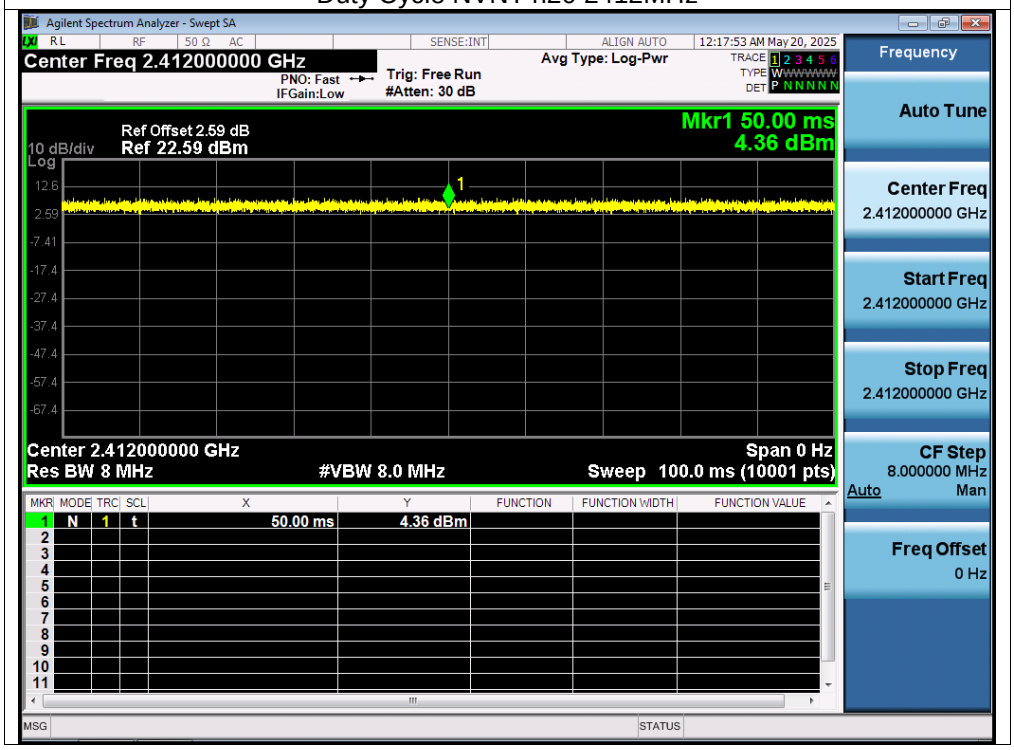
Duty Cycle NVNT b 2412MHz



Duty Cycle NVNT g 2412MHz



Duty Cycle NVNT n20 2412MHz



14. Antenna Requirement

14.1 Limit

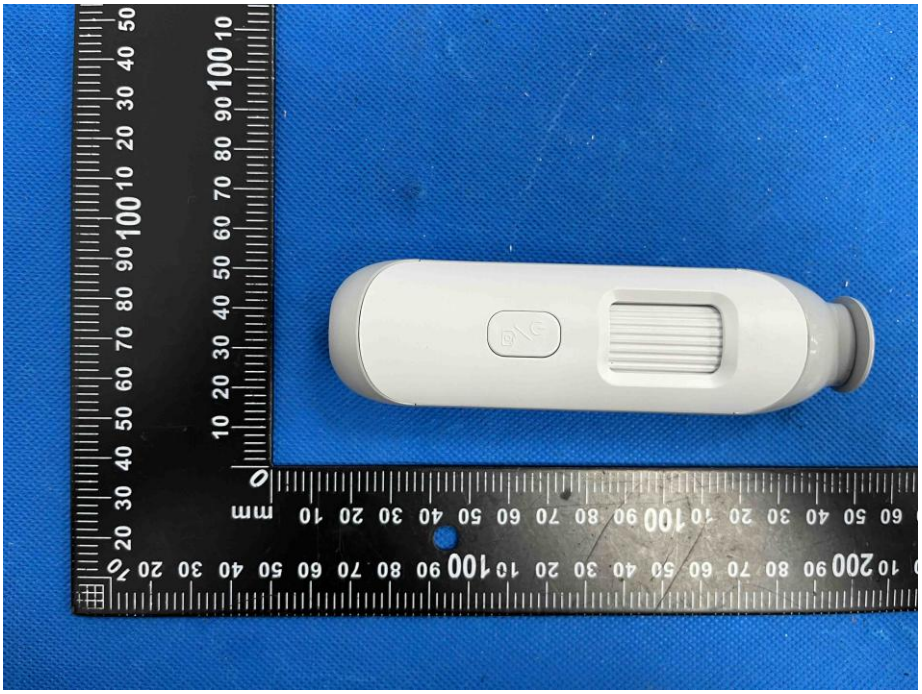
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

14.1 Test Result

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

15. EUT Photographs

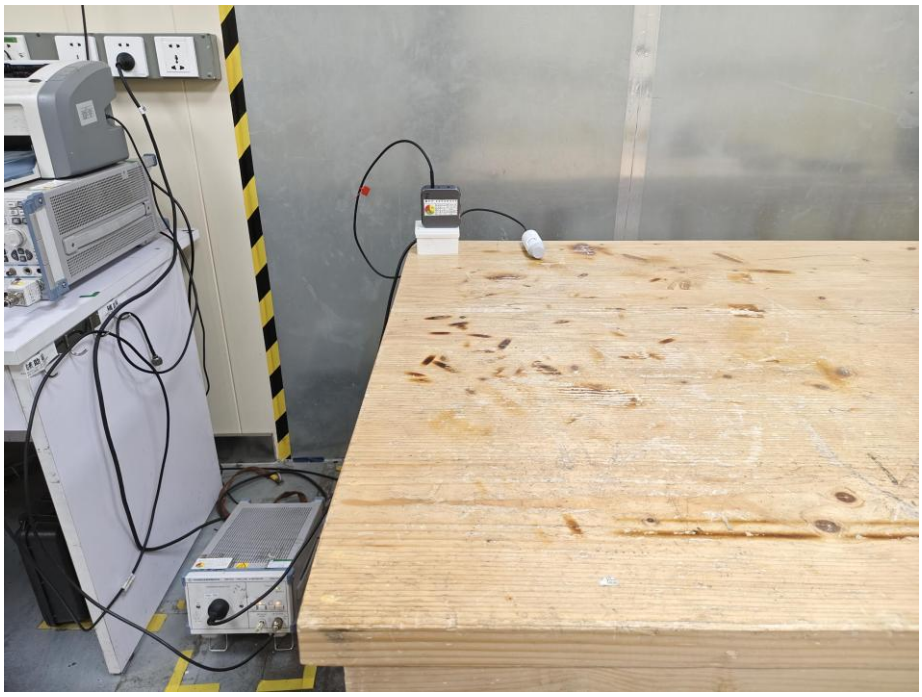
EUT Photo



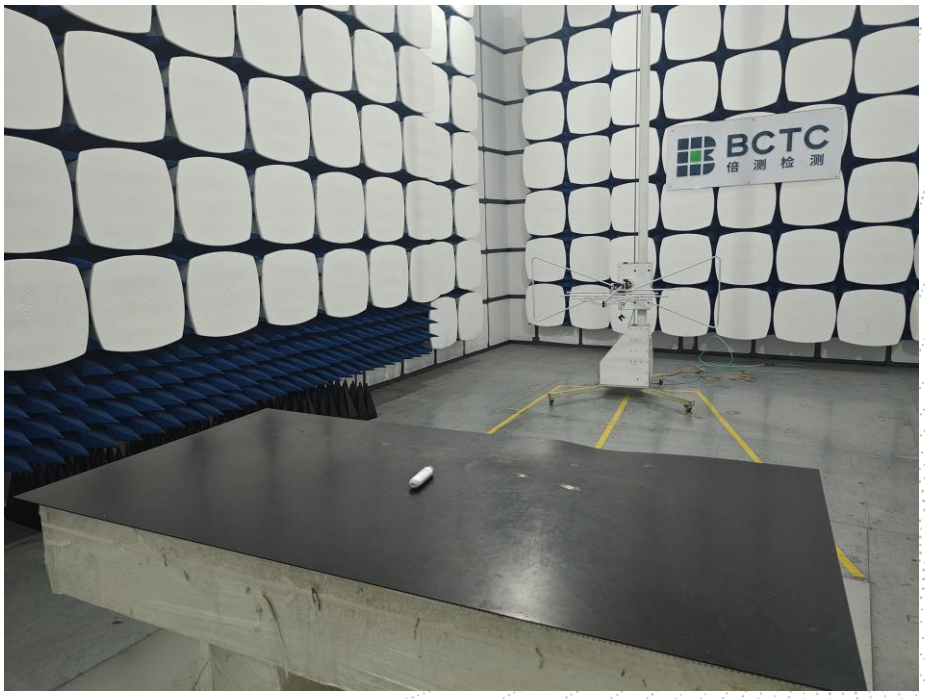
NOTE: Appendix-Photographs Of EUT Constructional Details

16. EUT Test Setup Photographs

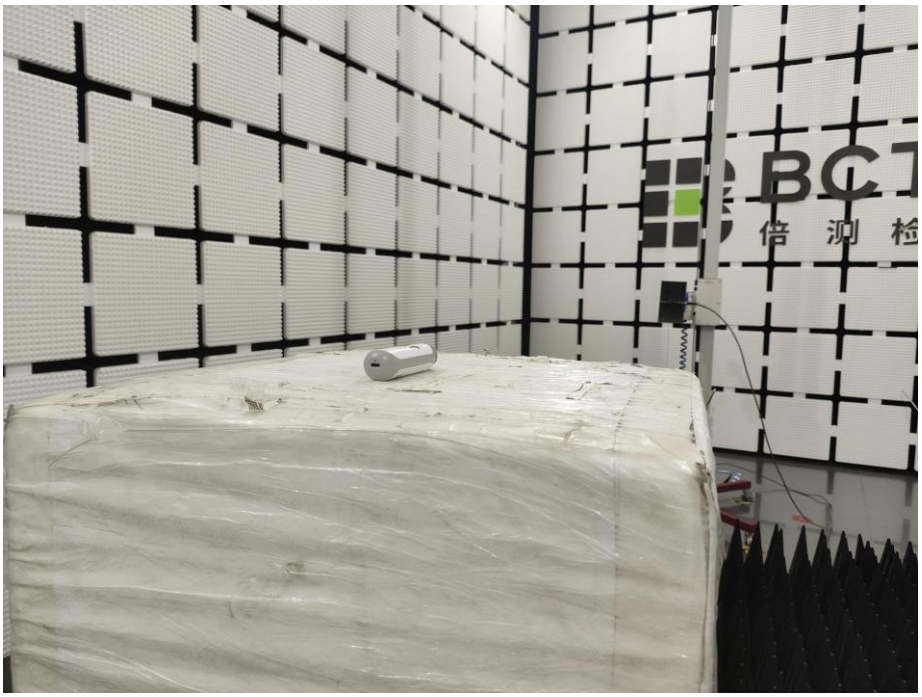
Conducted Emission



Radiated Emission



Spurious emissions



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:
1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: http://www.chnbctc.com

Consultation E-mail: bctc@bctc-lab.com.cn

Complaint/Advice E-mail: advice@bctc-lab.com.cn

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