



FCC TEST REPORT

FCC ID:2A30F-NIGHTSTALKER

Report Number..... : ZKT-260330L3408

Date of Test..... Mar. 18, 2026 to Mar. 23, 2026

Date of issue..... : Mar. 23, 2026

Test Result..... : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : Shenzhen Pard Technology Co.,Ltd

Address : B78,18/F,Guangyin building,38 Futian South Road, port community, Futian street, Futian District, Shenzhen

Manufacturer's name : Shenzhen Pard Technology Co.,Ltd

Address : B78,18/F,Guangyin building,38 Futian South Road, port community, Futian street, Futian District, Shenzhen

Test specification:

Standard..... : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10-2020+Cor 1-2023

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No..... : TRF-EL-110_V0

Test Report Form(s) Originator..... : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... : Digital Night Vision Camera

Trademark : PARD

Model/Type reference..... : Night Stalker 4K Mini
Night Stalker 5K Mini, Night Stalker 6K Mini, Night Stalker 7K Mini,
Night Stalker 8K Mini, Night Stalker 5K eX, Night Stalker 6K eX,
Night Stalker 7K eX, Night Stalker 8K eX, Phoenix 4K Mini,
Phoenix 5K Mini, Phoenix 6K Mini, Phoenix 7K Mini,
Phoenix 8K Mini, Phoenix 4K 2.0, Phoenix 4K 3.0, Phoenix 4K 4.0,
Phoenix 4K 5.0, Phoenix 4K 6.0, Phoenix 4K eX, Phoenix 5K eX,
Phoenix 6K eX, Phoenix 7K eX, Phoenix 8K eX

Ratings..... : Input: 3.7 V==0.5 A or DC 3.7 V powered by battery

**Testing procedure and testing location:****Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.**Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature).....: Jim Liu

Reviewer (name + signature).....: Jackson Fang

Approved (name + signature).....: Lake Xie





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1. VERSION

Report No.	Version	Description	Approved
ZKT-260330L3408	Rev.01	Initial issue of report	Mar. 23, 2026



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
FCC part 15.203/15.247 (c)	Antenna requirement	PASS	
FCC part 15.207	AC Power Line Conducted Emission	PASS	
FCC part 15.247 (b)(3)	Conducted Peak Output Power	PASS	
FCC part 15.247 (a)(2)	Channel Bandwidth& 99% OCB	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Conducted Spurious and Band edge Emission	PASS	
FCC part 15.205/15.209	Spurious Emission	PASS	

NOTE:

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



2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 927491

Designation Number: CN1431

IC Registered No.: 27033

CAB identifier: CN0110

2.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9KHz-30MHz)	4.5dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	5.0dB
5	Conducted disturbance	3.2dB
6	RF Band Edge	1.68dB
7	RF power conducted	1.86dB
8	RF conducted Spurious Emission	2.2dB
9	RF Occupied Bandwidth	1.8kHz
10	RF Power Spectral Density	1.75dB
11	humidity uncertainty	5.3%
12	Temperature uncertainty	0.59°C



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Digital Night Vision Camera
Model No.:	Night Stalker 4K Mini
Model Different.:	Night Stalker 4K Mini is the test model, while other models are derivative models. These models are the same on the circuit, with only different model names. Therefore, the test data of Night Stalker 4K Mini can represent the remaining models.
Serial No.:	N/A
Sample ID	ZKT-260330L3408
Sample(s) Status:	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20):11 802.11n(HT40): 7
Channel separation:	5MHz
Modulation technology:	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK)
Antenna Type and Antenna gain:	Antenna Type: FPC Antenna Antenna gain: 1.5dBi
Power supply:	Input: 3.7 V --- 0.5 A or DC 3.7 V powered by battery

Operation Frequency each of channel							
Channel	Frequency	Chann el	Frequency	Chann el	Frequency	Chann el	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)	
	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz



3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test, the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:				
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.				
Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

Test Software	EspRFTTestTool_v4.7_Manual
Power level setup	default

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emissions



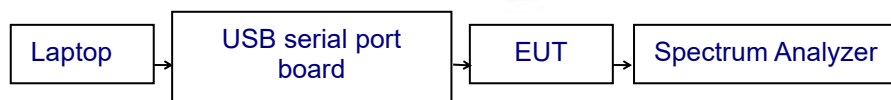
Radiated Emission(30MHz-1GHz)



Radiated Emission(above 1GHz)



RF Conducted test





3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	USB serial port board	/	/	/	AE
E-2	Laptop	Lenovo (Beijing) Co., Ltd	ThinkPad E480	/	AE
E-3	AC Adapter	Huizhou Jinhua Industrial Development Co., Ltd.	VCBAJACH	/	AE

Item	Shielded Type	Ferrite Core	Length	Note

Note:

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



3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Emissions & Radiation Spurious Emissions Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	100969	4.32	Oct. 24, 2025	Oct. 23, 2026
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	00877	N/A	Sep. 20, 2025	Sep. 19, 2026
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Sep. 20, 2025	Sep. 19, 2026
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Sep. 30, 2025	Sep. 29, 2026
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Sep. 20, 2025	Sep. 19, 2026
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	60747	N/A	Sep. 19, 2025	Sep. 18, 2026
9	Amplifier (1GHz-26.5GHz)	HuiPu	8449B	3008A00315	N/A	Sep. 19, 2025	Sep. 18, 2026
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Oct. 24, 2025	Oct. 23, 2026
11	Test Cable	N/A	R-01	N/A	N/A	May. 25, 2025	May. 24, 2026
12	Test Cable	N/A	R-02	N/A	N/A	May. 25, 2025	May. 24, 2026
13	Test Cable	N/A	R-03	N/A	N/A	May. 25, 2025	May. 24, 2026
14	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
15	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	\
16	Turntable	MF	MF-7802BS	N/A	N/A	\	\
17	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\



Conducted emissions Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Sep. 23, 2025	Sep. 22, 2026
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Sep. 19, 2025	Sep. 18, 2026
3	Test Cable	N/A	C-01	N/A	N/A	May. 22, 2025	May. 21, 2026
4	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Oct. 24, 2025	Oct. 23, 2026
5	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\

RF Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	Test Cable	N/A	RF-01	N/A	N/A	May. 25, 2025	May. 24, 2026
4	Test Cable	N/A	RF-02	N/A	N/A	May. 25, 2025	May. 24, 2026
5	Test Cable	N/A	RF-03	N/A	N/A	May. 25, 2025	May. 24, 2026
6	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Sep. 19, 2025	Sep. 18, 2026
7	Signal Generator	Agilent	N5182A	N/A	A.01.87	Sep. 20, 2025	Sep. 19, 2026
8	Magnetic Field Probe Tester	Narda	ELT-400	0-0344/M-17 52	N/A	Sep. 25, 2025	Sep. 24, 2026
9	SHIELD BOX	TESCOM	TC-5970C	5970C01555 3	N/A	Dec. 18, 2024	Dec. 17, 2025
10	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Sep. 28, 2025	Sep. 27, 2026
11	MWRF Power Meter Test system	MW	MW100-RF CB	N/A	N/A	Sep. 19, 2025	Sep. 18, 2026
12	D.C. Power Supply	LongWei	TPR-6405 D	N/A	N/A	\	\
13	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020+Cor 1-2023
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

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

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

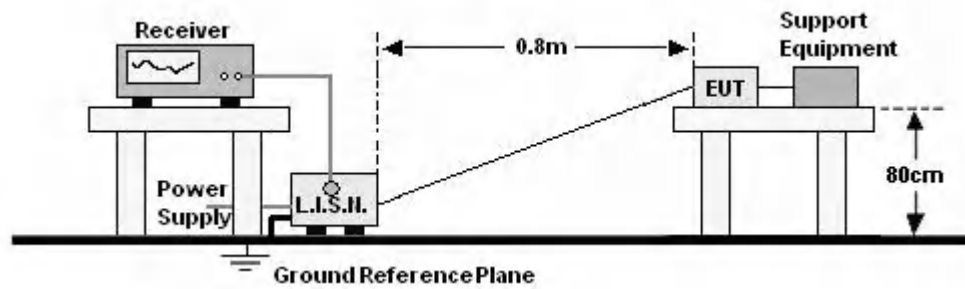
- The EUT was placed 0.1 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 TEST SETUP



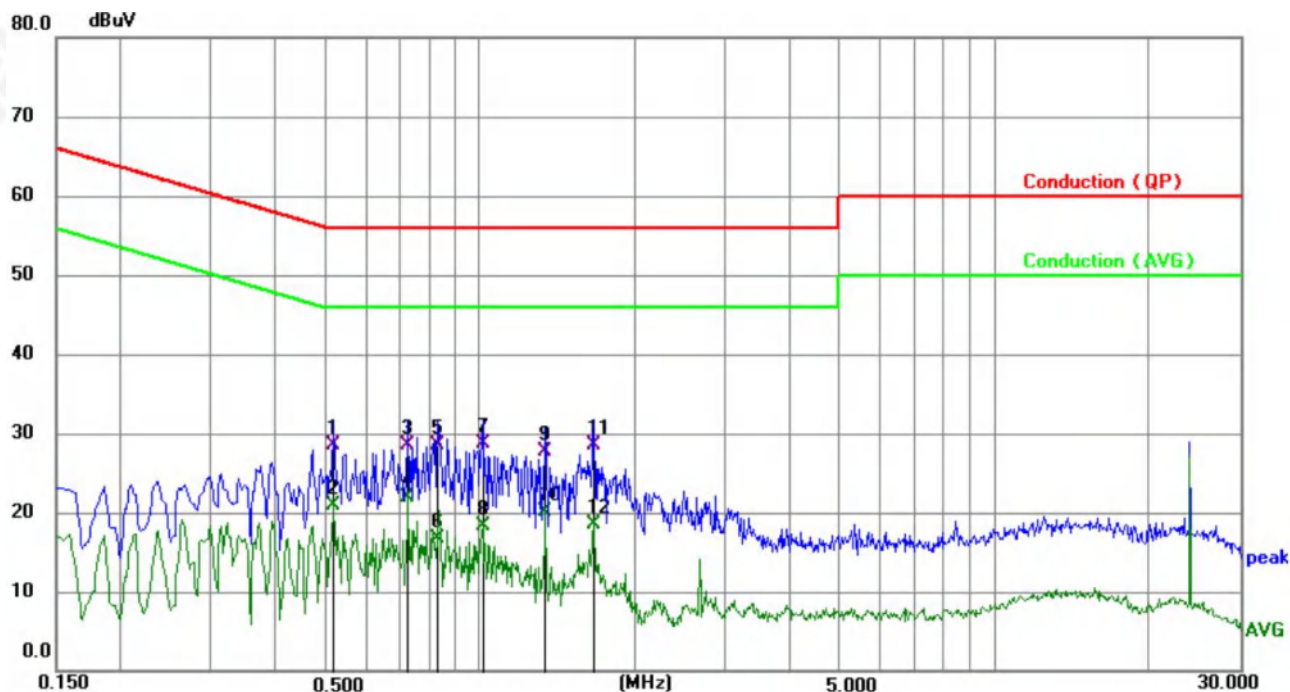
4.1.5 EUT OPERATING CONDITIONS

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.



4.1.6 Test Result

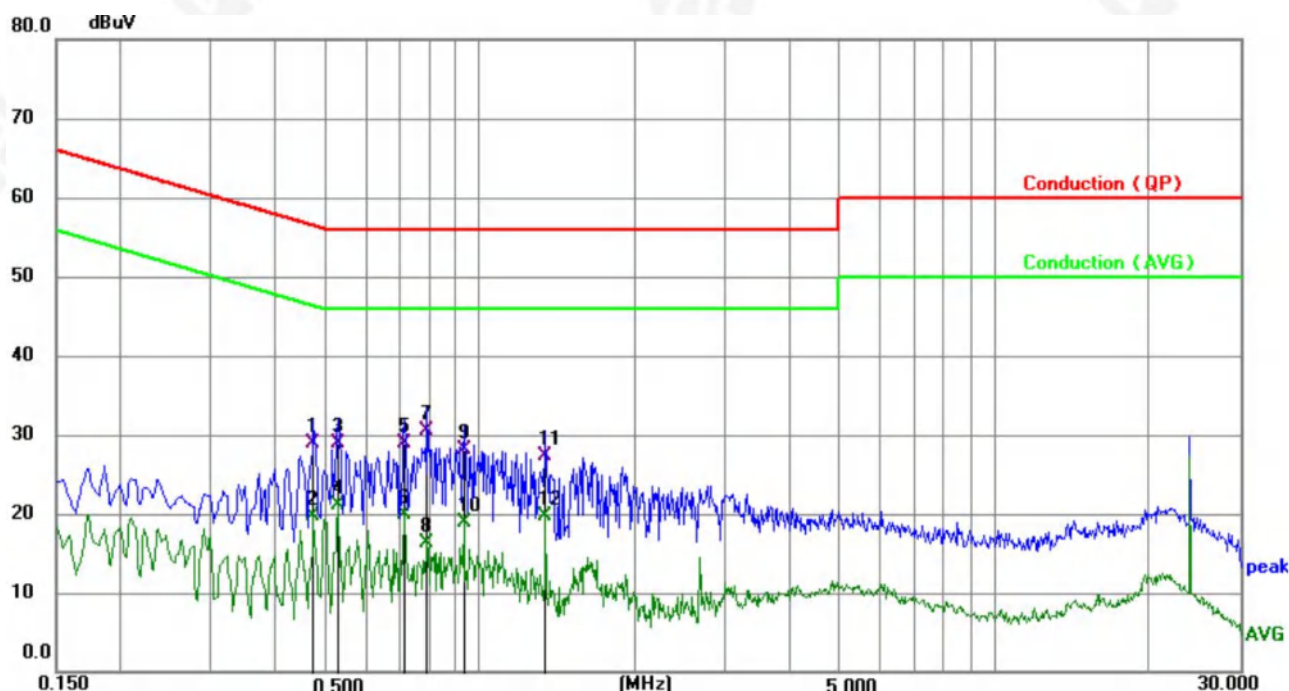
Temperature:	23.6℃	Relative Humidity:	54.2%
Pressure:	101.4kPa	Polarization:	L
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.5190	18.44	10.02	28.46	56.00	-27.54	QP	P	
2	0.5190	10.81	10.02	20.83	46.00	-25.17	AVG	P	
3	0.7260	18.47	10.04	28.51	56.00	-27.49	QP	P	
4 *	0.7260	11.96	10.04	22.00	46.00	-24.00	AVG	P	
5	0.8295	18.44	10.05	28.49	56.00	-27.51	QP	P	
6	0.8295	6.75	10.05	16.80	46.00	-29.20	AVG	P	
7	1.0140	18.66	10.06	28.72	56.00	-27.28	QP	P	
8	1.0140	8.32	10.06	18.38	46.00	-27.62	AVG	P	
9	1.3380	17.61	10.06	27.67	56.00	-28.33	QP	P	
10	1.3380	10.10	10.06	20.16	46.00	-25.84	AVG	P	
11	1.6665	18.35	10.06	28.41	56.00	-27.59	QP	P	
12	1.6665	8.44	10.06	18.50	46.00	-27.50	AVG	P	



Temperature:	23.6℃	Relative Humidity:	54.2%
Pressure:	101 kPa	Polarization:	N
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.4740	18.94	10.01	28.95	56.44	-27.49	QP	P	
2	0.4740	9.61	10.01	19.62	46.44	-26.82	AVG	P	
3	0.5280	18.98	10.02	29.00	56.00	-27.00	QP	P	
4 *	0.5280	11.03	10.02	21.05	46.00	-24.95	AVG	P	
5	0.7125	18.89	10.04	28.93	56.00	-27.07	QP	P	
6	0.7125	9.91	10.04	19.95	46.00	-26.05	AVG	P	
7	0.7890	20.41	10.04	30.45	56.00	-25.55	QP	P	
8	0.7890	6.26	10.04	16.30	46.00	-29.70	AVG	P	
9	0.9330	18.13	10.05	28.18	56.00	-27.82	QP	P	
10	0.9330	8.84	10.05	18.89	46.00	-27.11	AVG	P	
11	1.3380	17.33	10.06	27.39	56.00	-28.61	QP	P	
12	1.3380	9.74	10.06	19.80	46.00	-26.20	AVG	P	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor
4. The test data shows only the worst case 802.11n20 mode (Low Channel:2412MHz).



4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10-2020+Cor 1-2023				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

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).



4.2.2 TEST PROCEDURE

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 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 from table 0.8 meter to 1.5 meter (Above 18GHz the distance is 1 meter and table is 1.5 meter).
- Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

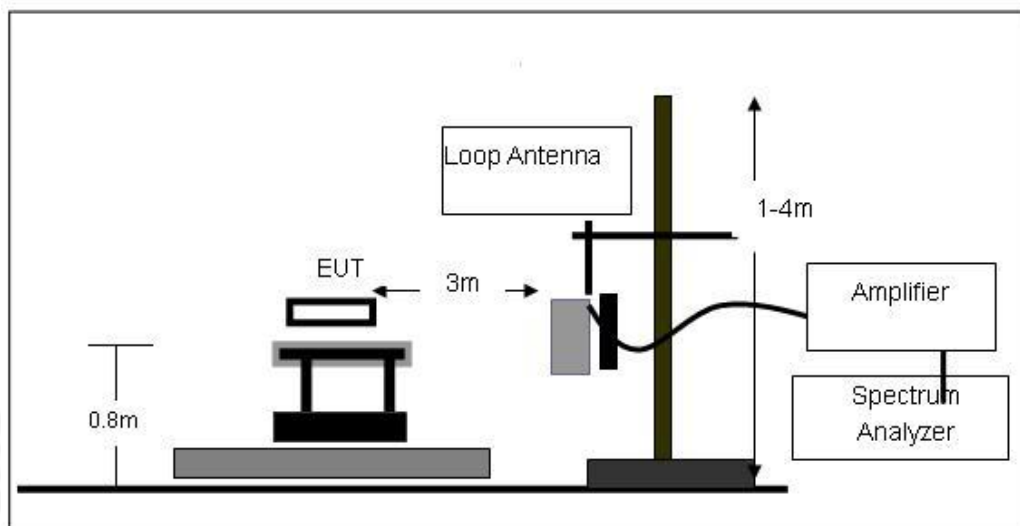
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

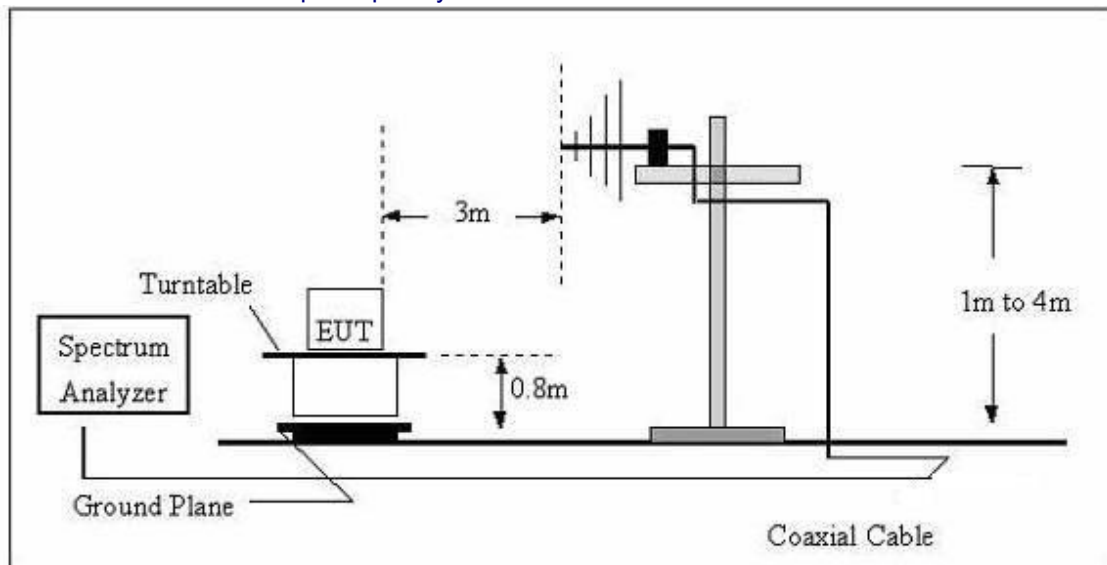
4.2.4 TEST SETUP

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

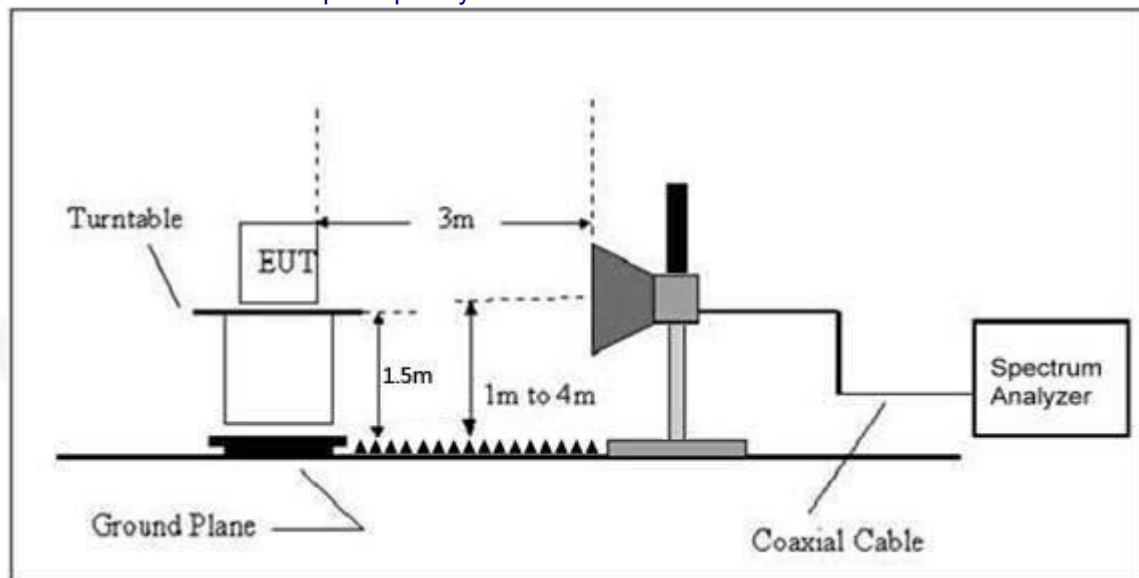




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 TEST RESULTS

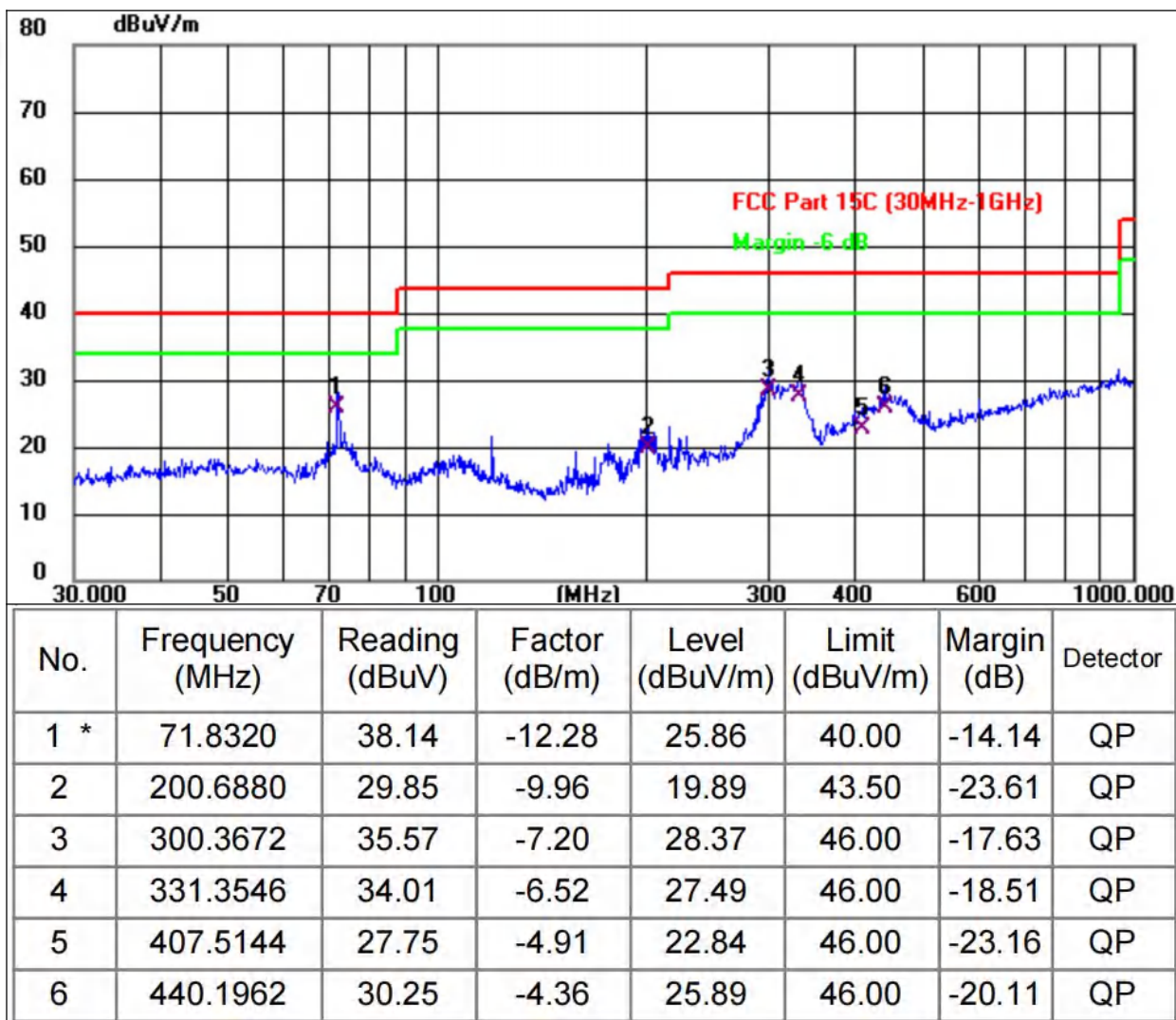
Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.



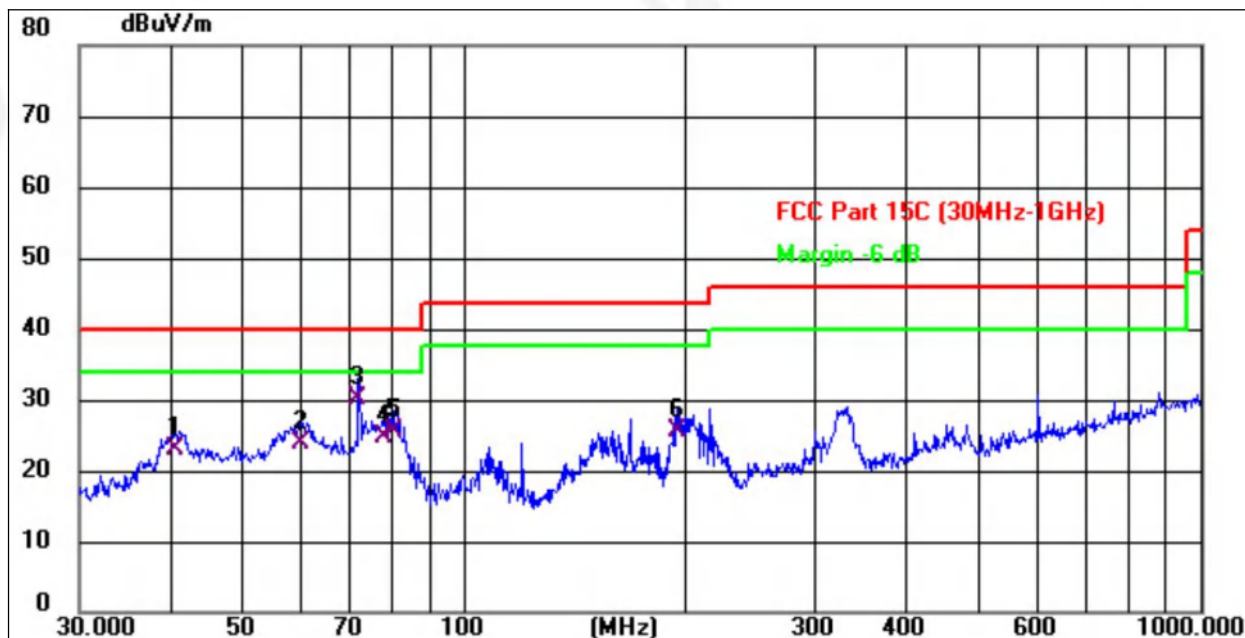
Between 30MHz – 1GHz

Temperature:	23.6℃	Relative Humidity:	54.2%
Pressure:	101.4kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7 V		





Temperature:	23.6℃	Relative Humidity:	54.2%
Pressure:	101.4kPa	Polarization:	Vertical
Test Voltage:	DC 3.7 V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.4170	32.14	-9.02	23.12	40.00	-16.88	QP
2	60.0690	33.36	-9.42	23.94	40.00	-16.06	QP
3 *	71.8320	42.36	-12.28	30.08	40.00	-9.92	QP
4	77.5926	37.69	-12.99	24.70	40.00	-15.30	QP
5	80.0805	38.70	-13.27	25.43	40.00	-14.57	QP
6	195.1363	35.90	-10.31	25.59	43.50	-17.91	QP

Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3.The test data shows only the worst case 802.11n20 mode (Low Channel:2412MHz).
- 4.'-'Means the test Degree and Height are not recorded by the test software and only show the worst case in the test report.



1GHz~25GHz

802.11b

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	56.12	30.55	5.77	24.66	56	74	-18	PK
V	4824.00	42.72	30.55	5.77	24.66	42.6	54	-11.4	AV
V	7236.00	57.65	30.33	6.32	24.55	58.19	74	-15.81	PK
V	7236.00	44.75	30.33	6.32	24.55	45.29	54	-8.71	AV
V	9648.00	56.37	30.55	5.77	24.66	56.25	74	-17.75	PK
V	9648.00	43.2	30.55	5.77	24.66	43.08	54	-10.92	AV
V	12060.00	55.77	30.33	6.32	24.55	56.31	74	-17.69	PK
V	12060.00	44.35	30.33	6.32	24.55	44.89	54	-9.11	AV
H	4824.00	56.08	30.55	5.77	24.66	55.96	74	-18.04	PK
H	4824.00	41.23	30.55	5.77	24.66	41.11	54	-12.89	AV
H	7236.00	59.27	30.33	6.32	24.55	59.81	74	-14.19	PK
H	7236.00	43.66	30.33	6.32	24.55	44.2	54	-9.8	AV
H	9648.00	56.01	30.55	5.77	24.66	55.89	74	-18.11	PK
H	9648.00	41.27	30.55	5.77	24.66	41.15	54	-12.85	AV
H	12060.00	55.59	30.33	6.32	24.55	56.13	74	-17.87	PK
H	12060.00	41.05	30.33	6.32	24.55	41.59	54	-12.41	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	57.05	30.55	5.77	24.66	56.93	74	-17.07	PK
V	4874.00	41.34	30.55	5.77	24.66	41.22	54	-12.78	AV
V	7311.00	58.26	30.33	6.32	24.55	58.8	74	-15.2	PK
V	7311.00	41.81	30.33	6.32	24.55	42.35	54	-11.65	AV
V	9748.00	55.46	30.55	5.77	24.66	55.34	74	-18.66	PK
V	9748.00	41.98	30.55	5.77	24.66	41.86	54	-12.14	AV
V	12185.00	55.72	30.33	6.32	24.55	56.26	74	-17.74	PK
V	12185.00	44.32	30.33	6.32	24.55	44.86	54	-9.14	AV
H	4874.00	57.24	30.55	5.77	24.66	57.12	74	-16.88	PK
H	4874.00	41.88	30.55	5.77	24.66	41.76	54	-12.24	AV
H	7311.00	56.22	30.33	6.32	24.55	56.76	74	-17.24	PK
H	7311.00	41.61	30.33	6.32	24.55	42.15	54	-11.85	AV
H	9748.00	57.85	30.55	5.77	24.66	57.73	74	-16.27	PK
H	9748.00	42.06	30.55	5.77	24.66	41.94	54	-12.06	AV
H	12185.00	55.29	30.33	6.32	24.55	55.83	74	-18.17	PK
H	12185.00	42.49	30.33	6.32	24.55	43.03	54	-10.97	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	58.8	30.55	5.77	24.66	58.68	74	-15.32	PK
V	4924.00	41.76	30.55	5.77	24.66	41.64	54	-12.36	AV
V	7386.00	55.47	30.33	6.32	24.55	56.01	74	-17.99	PK
V	7386.00	44.39	30.33	6.32	24.55	44.93	54	-9.07	AV
V	9848.00	58.94	30.55	5.77	24.66	58.82	74	-15.18	PK
V	9848.00	41.94	30.55	5.77	24.66	41.82	54	-12.18	AV
V	12310.00	55.6	30.33	6.32	24.55	56.14	74	-17.86	PK
V	12310.00	41.59	30.33	6.32	24.55	42.13	54	-11.87	AV
H	4924.00	59.37	30.55	5.77	24.66	59.25	74	-14.75	PK
H	4924.00	41.61	30.55	5.77	24.66	41.49	54	-12.51	AV
H	7386.00	59.21	30.33	6.32	24.55	59.75	74	-14.25	PK
H	7386.00	43.43	30.33	6.32	24.55	43.97	54	-10.03	AV
H	9848.00	59.08	30.55	5.77	24.66	58.96	74	-15.04	PK
H	9848.00	41.28	30.55	5.77	24.66	41.16	54	-12.84	AV
H	12310.00	56.16	30.33	6.32	24.55	56.7	74	-17.3	PK
H	12310.00	44.99	30.33	6.32	24.55	45.53	54	-8.47	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

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

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

4. The test data shows only the worst case.



802.11g

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	57.89	30.55	5.77	24.66	57.77	74	-16.23	PK
V	4824.00	42.11	30.55	5.77	24.66	41.99	54	-12.01	AV
V	7236.00	58.62	30.33	6.32	24.55	59.16	74	-14.84	PK
V	7236.00	44.04	30.33	6.32	24.55	44.58	54	-9.42	AV
V	9648.00	57.15	30.55	5.77	24.66	57.03	74	-16.97	PK
V	9648.00	44.18	30.55	5.77	24.66	44.06	54	-9.94	AV
V	12060.00	55.03	30.33	6.32	24.55	55.57	74	-18.43	PK
V	12060.00	41.83	30.33	6.32	24.55	42.37	54	-11.63	AV
H	4824.00	55.88	30.55	5.77	24.66	55.76	74	-18.24	PK
H	4824.00	41.34	30.55	5.77	24.66	41.22	54	-12.78	AV
H	7236.00	56.46	30.33	6.32	24.55	57	74	-17	PK
H	7236.00	41.92	30.33	6.32	24.55	42.46	54	-11.54	AV
H	9648.00	59.26	30.55	5.77	24.66	59.14	74	-14.86	PK
H	9648.00	42	30.55	5.77	24.66	41.88	54	-12.12	AV
H	12060.00	60	30.33	6.32	24.55	60.54	74	-13.46	PK
H	12060.00	41.64	30.33	6.32	24.55	42.18	54	-11.82	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	56.76	30.55	5.77	24.66	56.64	74	-17.36	PK
V	4874.00	41.1	30.55	5.77	24.66	40.98	54	-13.02	AV
V	7311.00	55.42	30.33	6.32	24.55	55.96	74	-18.04	PK
V	7311.00	43.93	30.33	6.32	24.55	44.47	54	-9.53	AV
V	9748.00	58.17	30.55	5.77	24.66	58.05	74	-15.95	PK
V	9748.00	44.89	30.55	5.77	24.66	44.77	54	-9.23	AV
V	12185.00	59.5	30.33	6.32	24.55	60.04	74	-13.96	PK
V	12185.00	41.33	30.33	6.32	24.55	41.87	54	-12.13	AV
H	4874.00	55.86	30.55	5.77	24.66	55.74	74	-18.26	PK
H	4874.00	41.32	30.55	5.77	24.66	41.2	54	-12.8	AV
H	7311.00	55.41	30.33	6.32	24.55	55.95	74	-18.05	PK
H	7311.00	41.75	30.33	6.32	24.55	42.29	54	-11.71	AV
H	9748.00	56.1	30.55	5.77	24.66	55.98	74	-18.02	PK
H	9748.00	41.53	30.55	5.77	24.66	41.41	54	-12.59	AV
H	12185.00	58.21	30.33	6.32	24.55	58.75	74	-15.25	PK
H	12185.00	42.36	30.33	6.32	24.55	42.9	54	-11.1	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	57.58	30.55	5.77	24.66	57.46	74	-16.54	PK
V	4924.00	41.33	30.55	5.77	24.66	41.21	54	-12.79	AV
V	7386.00	56.32	30.33	6.32	24.55	56.86	74	-17.14	PK
V	7386.00	44.09	30.33	6.32	24.55	44.63	54	-9.37	AV
V	9848.00	58.37	30.55	5.77	24.66	58.25	74	-15.75	PK
V	9848.00	41.05	30.55	5.77	24.66	40.93	54	-13.07	AV
V	12310.00	59.92	30.33	6.32	24.55	60.46	74	-13.54	PK
V	12310.00	41.98	30.33	6.32	24.55	42.52	54	-11.48	AV
H	4924.00	59.69	30.55	5.77	24.66	59.57	74	-14.43	PK
H	4924.00	41.08	30.55	5.77	24.66	40.96	54	-13.04	AV
H	7386.00	59.12	30.33	6.32	24.55	59.66	74	-14.34	PK
H	7386.00	44.01	30.33	6.32	24.55	44.55	54	-9.45	AV
H	9848.00	56.09	30.55	5.77	24.66	55.97	74	-18.03	PK
H	9848.00	43.83	30.55	5.77	24.66	43.71	54	-10.29	AV
H	12310.00	58.83	30.33	6.32	24.55	59.37	74	-14.63	PK
H	12310.00	42.23	30.33	6.32	24.55	42.77	54	-11.23	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. 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	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	55.77	30.55	5.77	24.66	55.65	74	-18.35	PK
V	4824.00	42.06	30.55	5.77	24.66	41.94	54	-12.06	AV
V	7236.00	55.84	30.33	6.32	24.55	56.38	74	-17.62	PK
V	7236.00	43.37	30.33	6.32	24.55	43.91	54	-10.09	AV
V	9648.00	57.5	30.55	5.77	24.66	57.38	74	-16.62	PK
V	9648.00	41.5	30.55	5.77	24.66	41.38	54	-12.62	AV
V	12060.00	55.29	30.33	6.32	24.55	55.83	74	-18.17	PK
V	12060.00	42.21	30.33	6.32	24.55	42.75	54	-11.25	AV
H	4824.00	58.63	30.55	5.77	24.66	58.51	74	-15.49	PK
H	4824.00	41.1	30.55	5.77	24.66	40.98	54	-13.02	AV
H	7236.00	59.5	30.33	6.32	24.55	60.04	74	-13.96	PK
H	7236.00	41.07	30.33	6.32	24.55	41.61	54	-12.39	AV
H	9648.00	56.68	30.55	5.77	24.66	56.56	74	-17.44	PK
H	9648.00	41.02	30.55	5.77	24.66	40.9	54	-13.1	AV
H	12060.00	59.47	30.33	6.32	24.55	60.01	74	-13.99	PK
H	12060.00	41.18	30.33	6.32	24.55	41.72	54	-12.28	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	55.45	30.55	5.77	24.66	55.33	74	-18.67	PK
V	4874.00	41.51	30.55	5.77	24.66	41.39	54	-12.61	AV
V	7311.00	55.39	30.33	6.32	24.55	55.93	74	-18.07	PK
V	7311.00	43.79	30.33	6.32	24.55	44.33	54	-9.67	AV
V	9748.00	59.51	30.55	5.77	24.66	59.39	74	-14.61	PK
V	9748.00	43.45	30.55	5.77	24.66	43.33	54	-10.67	AV
V	12185.00	58.13	30.33	6.32	24.55	58.67	74	-15.33	PK
V	12185.00	42.17	30.33	6.32	24.55	42.71	54	-11.29	AV
H	4874.00	57.11	30.55	5.77	24.66	56.99	74	-17.01	PK
H	4874.00	43.35	30.55	5.77	24.66	43.23	54	-10.77	AV
H	7311.00	58.92	30.33	6.32	24.55	59.46	74	-14.54	PK
H	7311.00	41.31	30.33	6.32	24.55	41.85	54	-12.15	AV
H	9748.00	57.44	30.55	5.77	24.66	57.32	74	-16.68	PK
H	9748.00	42.67	30.55	5.77	24.66	42.55	54	-11.45	AV
H	12185.00	56.14	30.33	6.32	24.55	56.68	74	-17.32	PK
H	12185.00	41.75	30.33	6.32	24.55	42.29	54	-11.71	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	56.38	30.55	5.77	24.66	56.26	74	-17.74	PK
V	4924.00	41.23	30.55	5.77	24.66	41.11	54	-12.89	AV
V	7386.00	58.77	30.33	6.32	24.55	59.31	74	-14.69	PK
V	7386.00	44.35	30.33	6.32	24.55	44.89	54	-9.11	AV
V	9848.00	58.22	30.55	5.77	24.66	58.1	74	-15.9	PK
V	9848.00	41.46	30.55	5.77	24.66	41.34	54	-12.66	AV
V	12310.00	56.74	30.33	6.32	24.55	57.28	74	-16.72	PK
V	12310.00	41.03	30.33	6.32	24.55	41.57	54	-12.43	AV
H	4924.00	57.32	30.55	5.77	24.66	57.2	74	-16.8	PK
H	4924.00	41.67	30.55	5.77	24.66	41.55	54	-12.45	AV
H	7386.00	56.27	30.33	6.32	24.55	56.81	74	-17.19	PK
H	7386.00	43.84	30.33	6.32	24.55	44.38	54	-9.62	AV
H	9848.00	56.89	30.55	5.77	24.66	56.77	74	-17.23	PK
H	9848.00	42.08	30.55	5.77	24.66	41.96	54	-12.04	AV
H	12310.00	59.6	30.33	6.32	24.55	60.14	74	-13.86	PK
H	12310.00	42.52	30.33	6.32	24.55	43.06	54	-10.94	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

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

3. 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	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2422MHz									
V	4844	55.23	30.55	5.77	24.66	55.11	74	-18.89	PK
V	4844	42.19	30.55	5.77	24.66	42.07	54	-11.93	AV
V	7266	58.89	30.33	6.32	24.55	59.43	74	-14.57	PK
V	7266	43.07	30.33	6.32	24.55	43.61	54	-10.39	AV
V	9688	58.7	30.55	5.77	24.66	58.58	74	-15.42	PK
V	9688	44.02	30.55	5.77	24.66	43.9	54	-10.1	AV
V	12110	59.96	30.33	6.32	24.55	60.5	74	-13.5	PK
V	12110	42.13	30.33	6.32	24.55	42.67	54	-11.33	AV
H	4824.00	59.84	30.55	5.77	24.66	59.72	74	-14.28	PK
H	4824.00	41.49	30.55	5.77	24.66	41.37	54	-12.63	AV
H	7236.00	59.87	30.33	6.32	24.55	60.41	74	-13.59	PK
H	7236.00	44.51	30.33	6.32	24.55	45.05	54	-8.95	AV
H	9648.00	56.17	30.55	5.77	24.66	56.05	74	-17.95	PK
H	9648.00	41.01	30.55	5.77	24.66	40.89	54	-13.11	AV
H	12060.00	59.78	30.33	6.32	24.55	60.32	74	-13.68	PK
H	12060.00	41.92	30.33	6.32	24.55	42.46	54	-11.54	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	57.44	30.55	5.77	24.66	57.32	74	-16.68	PK
V	4874.00	41.28	30.55	5.77	24.66	41.16	54	-12.84	AV
V	7311.00	59.27	30.33	6.32	24.55	59.81	74	-14.19	PK
V	7311.00	44.48	30.33	6.32	24.55	45.02	54	-8.98	AV
V	9748.00	55.82	30.55	5.77	24.66	55.7	74	-18.3	PK
V	9748.00	43.02	30.55	5.77	24.66	42.9	54	-11.1	AV
V	12185.00	58.66	30.33	6.32	24.55	59.2	74	-14.8	PK
V	12185.00	41.47	30.33	6.32	24.55	42.01	54	-11.99	AV
H	4874.00	56.56	30.55	5.77	24.66	56.44	74	-17.56	PK
H	4874.00	41.93	30.55	5.77	24.66	41.81	54	-12.19	AV
H	7311.00	55.15	30.33	6.32	24.55	55.69	74	-18.31	PK
H	7311.00	42.04	30.33	6.32	24.55	42.58	54	-11.42	AV
H	9748.00	55.48	30.55	5.77	24.66	55.36	74	-18.64	PK
H	9748.00	43.55	30.55	5.77	24.66	43.43	54	-10.57	AV
H	12185.00	55.14	30.33	6.32	24.55	55.68	74	-18.32	PK
H	12185.00	41.01	30.33	6.32	24.55	41.55	54	-12.45	AV



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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2452MHz									
V	4904.00	57.03	30.55	5.77	24.66	56.91	74	-17.09	PK
V	4904.00	41.81	30.55	5.77	24.66	41.69	54	-12.31	AV
V	7356.00	57.39	30.33	6.32	24.55	57.93	74	-16.07	PK
V	7356.00	44.82	30.33	6.32	24.55	45.36	54	-8.64	AV
V	9808.00	57.85	30.55	5.77	24.66	57.73	74	-16.27	PK
V	9808.00	41.91	30.55	5.77	24.66	41.79	54	-12.21	AV
V	12260.00	57.11	30.33	6.32	24.55	57.65	74	-16.35	PK
V	12260.00	41.38	30.33	6.32	24.55	41.92	54	-12.08	AV
H	4904.00	55.47	30.55	5.77	24.66	55.35	74	-18.65	PK
H	4904.00	41.8	30.55	5.77	24.66	41.68	54	-12.32	AV
H	7356.00	55.41	30.33	6.32	24.55	55.95	74	-18.05	PK
H	7356.00	43.43	30.33	6.32	24.55	43.97	54	-10.03	AV
H	9808.00	59.08	30.55	5.77	24.66	58.96	74	-15.04	PK
H	9808.00	41.64	30.55	5.77	24.66	41.52	54	-12.48	AV
H	12260.00	55.44	30.33	6.32	24.55	55.98	74	-18.02	PK
H	12260.00	43.55	30.33	6.32	24.55	44.09	54	-9.91	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



5. RADIATED BAND EMISSION MEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above	Peak	1MHz	3MHz	Peak
	1GHz	Average	1MHz	3MHz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (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).

5.2 TEST PROCEDURE

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 camber. 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 bestopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reportedin 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

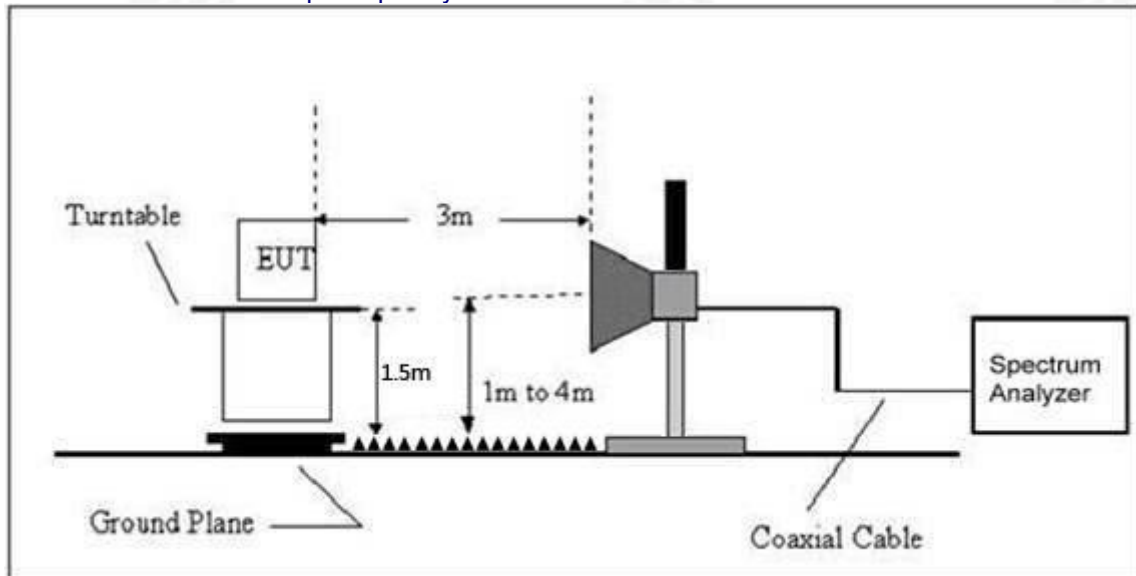
5.3 DEVIATION FROM TEST STANDARD

No deviation



5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.6 TEST RESULT

	Polar (H/V)	Frequenc y (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Margi n (dB)	Detec tor Type	Result
802.11b	Low Channel 2412MHz										
	H	2390.00	60.86	30.22	4.85	23.98	59.47	74.00	-14.53	PK	PASS
	H	2390.00	46.84	30.22	4.85	23.98	45.45	54.00	-8.55	AV	PASS
	H	2400.00	60.67	30.22	4.85	23.98	59.28	74.00	-14.72	PK	PASS
	H	2400.00	48.28	30.22	4.85	23.98	46.89	54.00	-7.11	AV	PASS
	V	2390.00	62.23	30.22	4.85	23.98	60.84	74.00	-13.16	PK	PASS
	V	2390.00	47.46	30.22	4.85	23.98	46.07	54.00	-7.93	AV	PASS
	V	2400.00	61.07	30.22	4.85	23.98	59.68	74.00	-14.32	PK	PASS
	V	2400.00	47.57	30.22	4.85	23.98	46.18	54.00	-7.82	AV	PASS
	High Channel 2462MHz										
	H	2483.50	62.84	30.22	4.85	23.98	61.45	74.00	-12.55	PK	PASS
	H	2483.50	46.17	30.22	4.85	23.98	44.78	54.00	-9.22	AV	PASS
	H	2500.00	62.34	30.22	4.85	23.98	60.95	74.00	-13.05	PK	PASS
	H	2500.00	48.53	30.22	4.85	23.98	47.14	54.00	-6.86	AV	PASS
	V	2483.50	62.96	30.22	4.85	23.98	61.57	74.00	-12.43	PK	PASS
	V	2483.50	47.48	30.22	4.85	23.98	46.09	54.00	-7.91	AV	PASS
	V	2500.00	62.10	30.22	4.85	23.98	60.71	74.00	-13.29	PK	PASS
	V	2500.00	46.89	30.22	4.85	23.98	45.50	54.00	-8.50	AV	PASS
802.11g	Low Channel 2412MHz										
	H	2390.00	61.82	30.22	4.85	23.98	60.43	74.00	-13.57	PK	PASS
	H	2390.00	47.09	30.22	4.85	23.98	45.70	54.00	-8.30	AV	PASS
	H	2400.00	59.36	30.22	4.85	23.98	57.97	74.00	-16.03	PK	PASS
	H	2400.00	47.01	30.22	4.85	23.98	45.62	54.00	-8.38	AV	PASS
	V	2390.00	61.60	30.22	4.85	23.98	60.21	74.00	-13.79	PK	PASS
	V	2390.00	46.24	30.22	4.85	23.98	44.85	54.00	-9.15	AV	PASS
	V	2400.00	60.52	30.22	4.85	23.98	59.13	74.00	-14.87	PK	PASS
	V	2400.00	46.91	30.22	4.85	23.98	45.52	54.00	-8.48	AV	PASS
	High Channel 2462MHz										
	H	2483.50	59.92	30.22	4.85	23.98	58.53	74.00	-15.47	PK	PASS
	H	2483.50	47.27	30.22	4.85	23.98	45.88	54.00	-8.12	AV	PASS
	H	2500.00	59.82	30.22	4.85	23.98	58.43	74.00	-15.57	PK	PASS
	H	2500.00	47.43	30.22	4.85	23.98	46.04	54.00	-7.96	AV	PASS
	V	2483.50	60.07	30.22	4.85	23.98	58.68	74.00	-15.32	PK	PASS
	V	2483.50	48.39	30.22	4.85	23.98	47.00	54.00	-7.00	AV	PASS
	V	2500.00	60.55	30.22	4.85	23.98	59.16	74.00	-14.84	PK	PASS
	V	2500.00	47.07	30.22	4.85	23.98	45.68	54.00	-8.32	AV	PASS
802.11n2 0	Low Channel 2412MHz										
	H	2390.00	59.73	30.22	4.85	23.98	58.34	74.00	-15.66	PK	PASS
	H	2390.00	48.49	30.22	4.85	23.98	47.10	54.00	-6.90	AV	PASS
	H	2400.00	61.24	30.22	4.85	23.98	59.85	74.00	-14.15	PK	PASS
	H	2400.00	47.82	30.22	4.85	23.98	46.43	54.00	-7.57	AV	PASS
	V	2390.00	60.72	30.22	4.85	23.98	59.33	74.00	-14.67	PK	PASS
	V	2390.00	47.77	30.22	4.85	23.98	46.38	54.00	-7.62	AV	PASS
	V	2400.00	60.59	30.22	4.85	23.98	59.20	74.00	-14.80	PK	PASS
	V	2400.00	46.89	30.22	4.85	23.98	45.50	54.00	-8.50	AV	PASS
	High Channel 2462MHz										
	H	2483.50	62.19	30.22	4.85	23.98	60.80	74.00	-13.20	PK	PASS
	H	2483.50	48.69	30.22	4.85	23.98	47.30	54.00	-6.70	AV	PASS
	H	2500.00	59.18	30.22	4.85	23.98	57.79	74.00	-16.21	PK	PASS
	H	2500.00	46.66	30.22	4.85	23.98	45.27	54.00	-8.73	AV	PASS
	V	2483.50	62.21	30.22	4.85	23.98	60.82	74.00	-13.18	PK	PASS
	V	2483.50	47.84	30.22	4.85	23.98	46.45	54.00	-7.55	AV	PASS



	V	2500.00	60.12	30.22	4.85	23.98	58.73	74.00	-15.27	PK	PASS
	V	2500.00	47.03	30.22	4.85	23.98	45.64	54.00	-8.36	AV	PASS
802.11n4 0	Low Channel 2422MHz										
	H	2390.00	59.42	30.22	4.85	23.98	58.03	74.00	-15.97	PK	PASS
	H	2390.00	47.05	30.22	4.85	23.98	45.66	54.00	-8.34	AV	PASS
	H	2400.00	59.24	30.22	4.85	23.98	57.85	74.00	-16.15	PK	PASS
	H	2400.00	47.12	30.22	4.85	23.98	45.73	54.00	-8.27	AV	PASS
	V	2390.00	60.06	30.22	4.85	23.98	58.67	74.00	-15.33	PK	PASS
	V	2390.00	47.24	30.22	4.85	23.98	45.85	54.00	-8.15	AV	PASS
	V	2400.00	60.16	30.22	4.85	23.98	58.77	74.00	-15.23	PK	PASS
	V	2400.00	47.59	30.22	4.85	23.98	46.20	54.00	-7.80	AV	PASS
	High Channel 2452MHz										
	H	2483.50	60.13	30.22	4.85	23.98	58.74	74.00	-15.26	PK	PASS
	H	2483.50	46.64	30.22	4.85	23.98	45.25	54.00	-8.75	AV	PASS
	H	2500.00	60.70	30.22	4.85	23.98	59.31	74.00	-14.69	PK	PASS
	H	2500.00	47.55	30.22	4.85	23.98	46.16	54.00	-7.84	AV	PASS
	V	2483.50	59.78	30.22	4.85	23.98	58.39	74.00	-15.61	PK	PASS
	V	2483.50	48.57	30.22	4.85	23.98	47.18	54.00	-6.82	AV	PASS
	V	2500.00	62.62	30.22	4.85	23.98	61.23	74.00	-12.77	PK	PASS
	V	2500.00	47.24	30.22	4.85	23.98	45.85	54.00	-8.15	AV	PASS

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit



6. POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10-2020+Cor 1-2023 and KDB558074 D01DTS Meas Guidancev05r02

6.1 APPLIED PROCEDURES / LIMIT

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

6.2 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: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
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.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



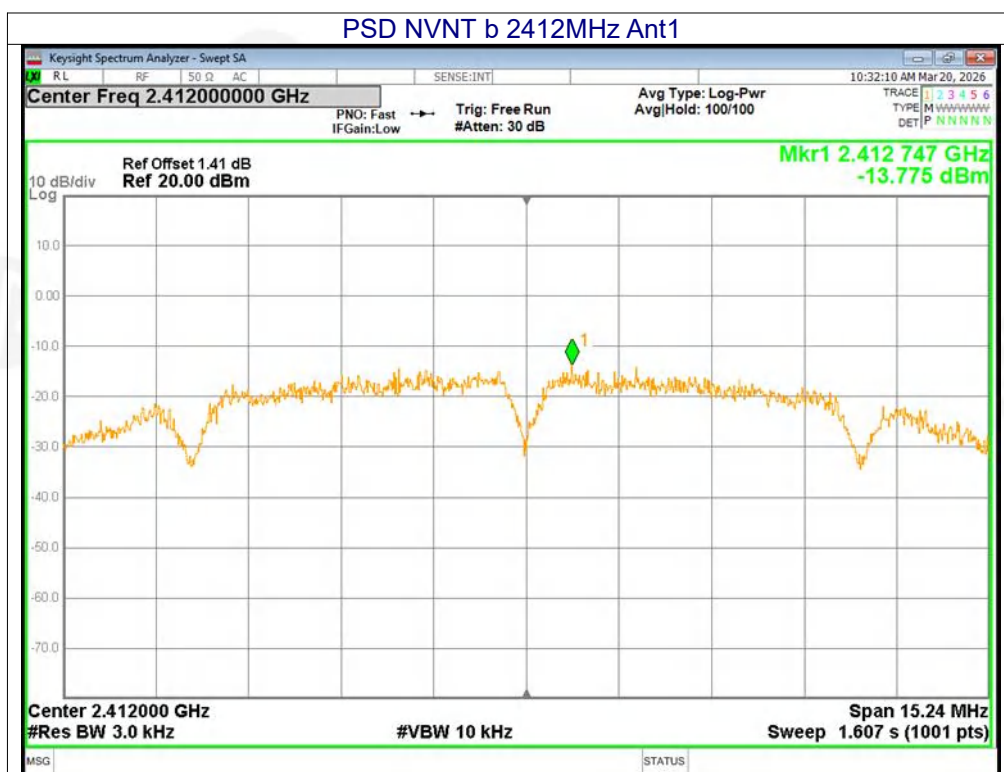
6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.



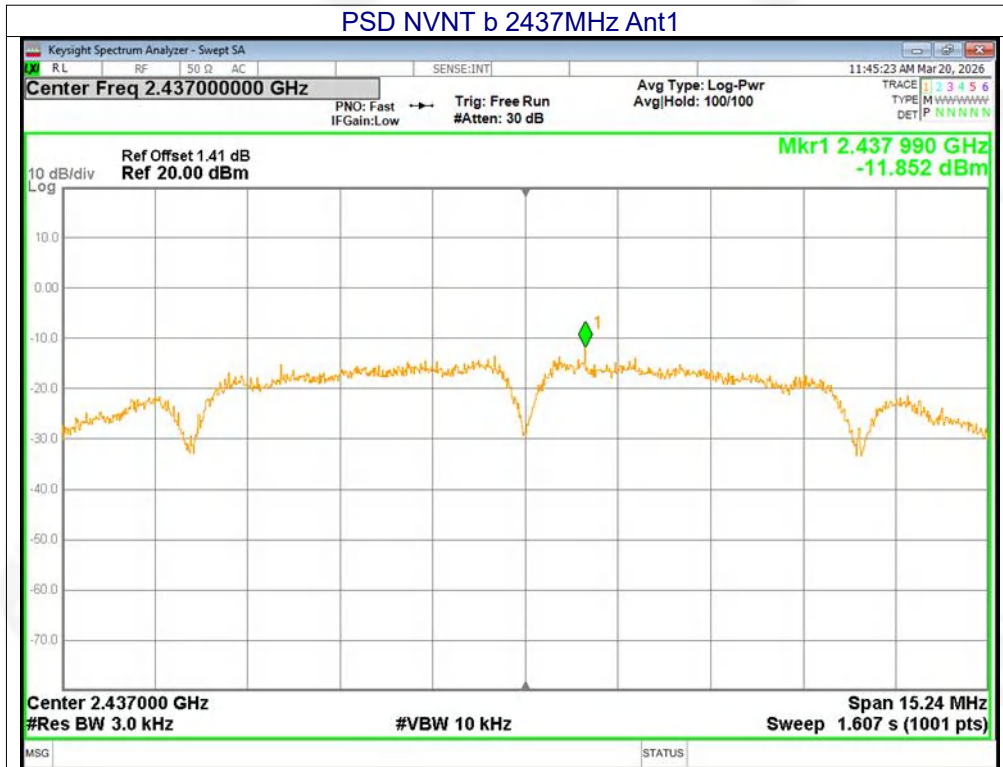
Temperature :	24.2℃	Relative Humidity :	53.6%
Pressure :	101.4kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX b Mode		

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-13.78	8	PASS
2437 MHz	-11.85	8	PASS
2462 MHz	-14.09	8	PASS

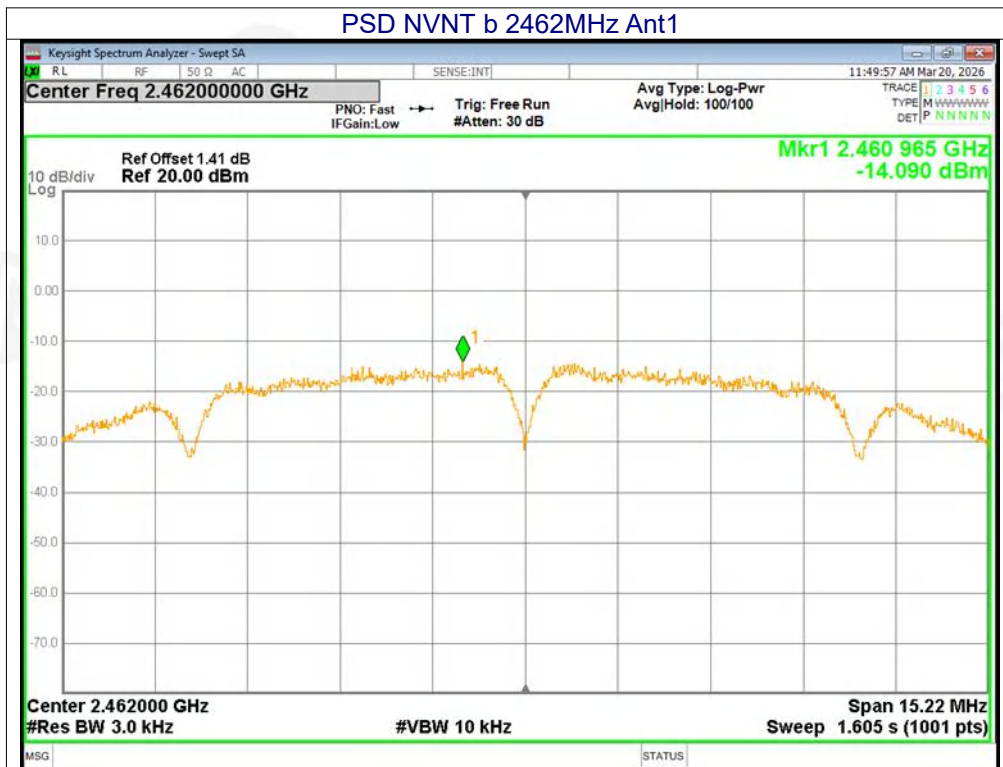




PSD NVNT b 2437MHz Ant1



PSD NVNT b 2462MHz Ant1





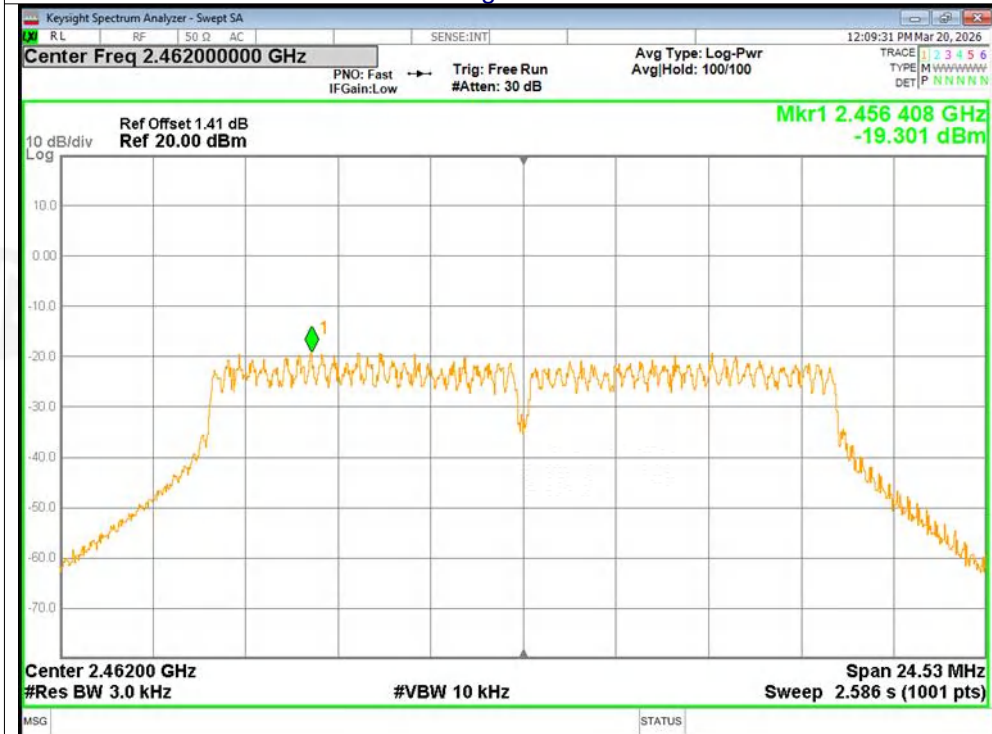
Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-17.8	8	PASS
2437 MHz	-18.64	8	PASS
2462 MHz	-19.3	8	PASS



PSD NVNT g 2437MHz Ant1



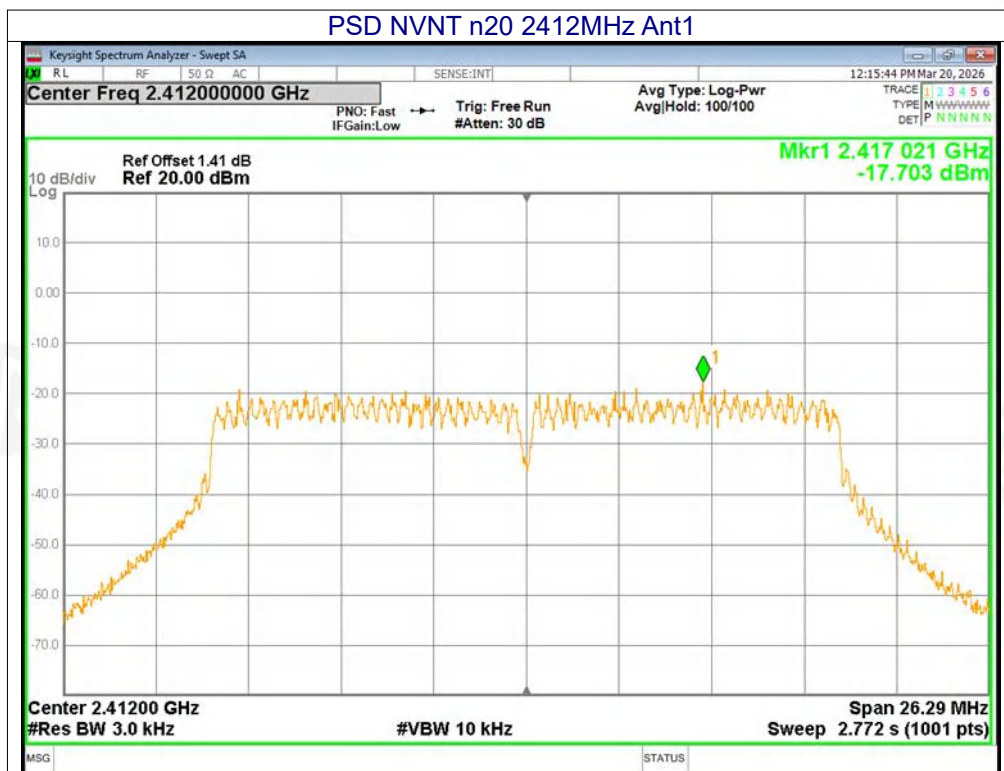
PSD NVNT g 2462MHz Ant1





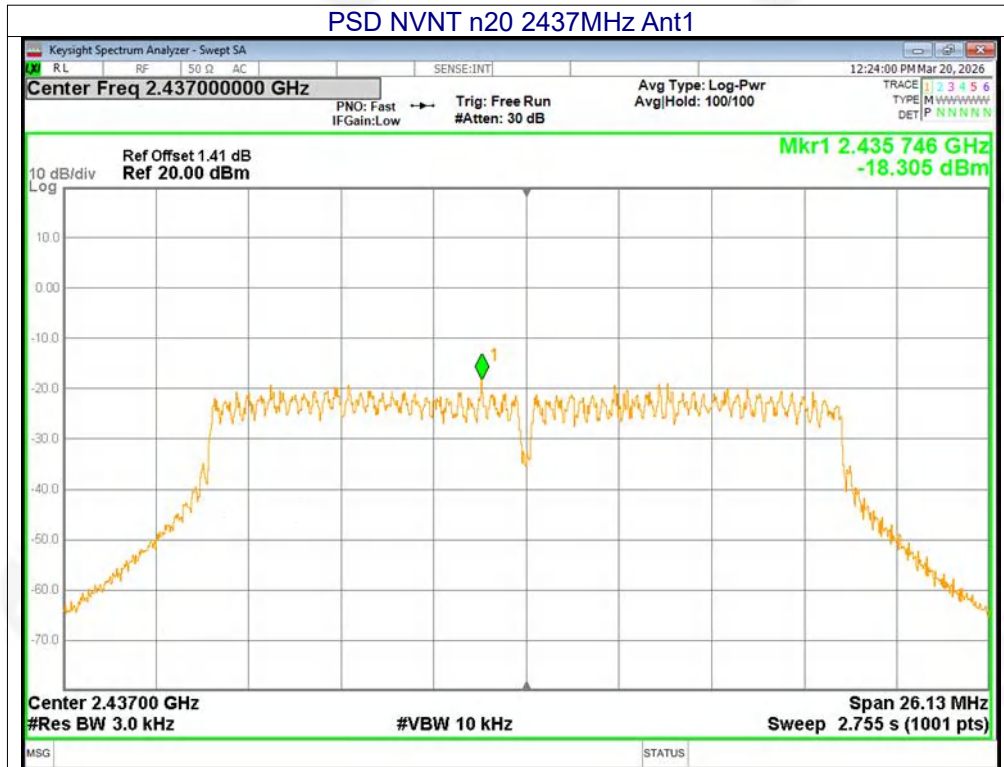
Temperature :	24.2℃	Relative Humidity :	53.6%
Pressure :	101.4kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode(20M)		

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-17.7	8	PASS
2437 MHz	-18.31	8	PASS
2462 MHz	-19	8	PASS

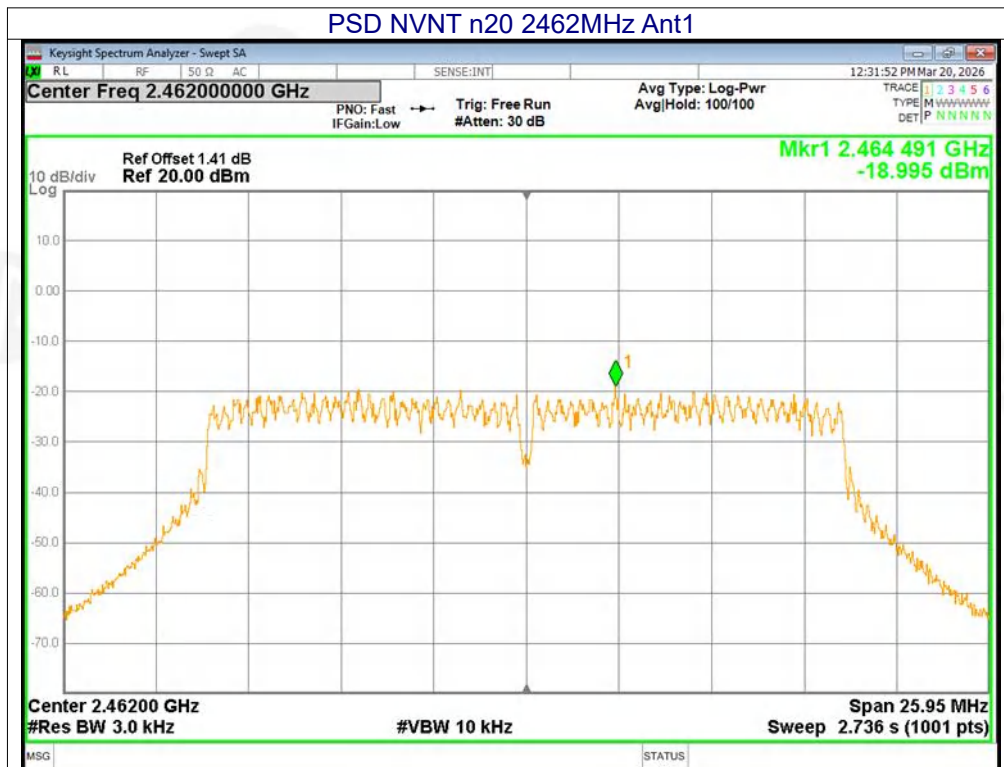




PSD NVNT n20 2437MHz Ant1



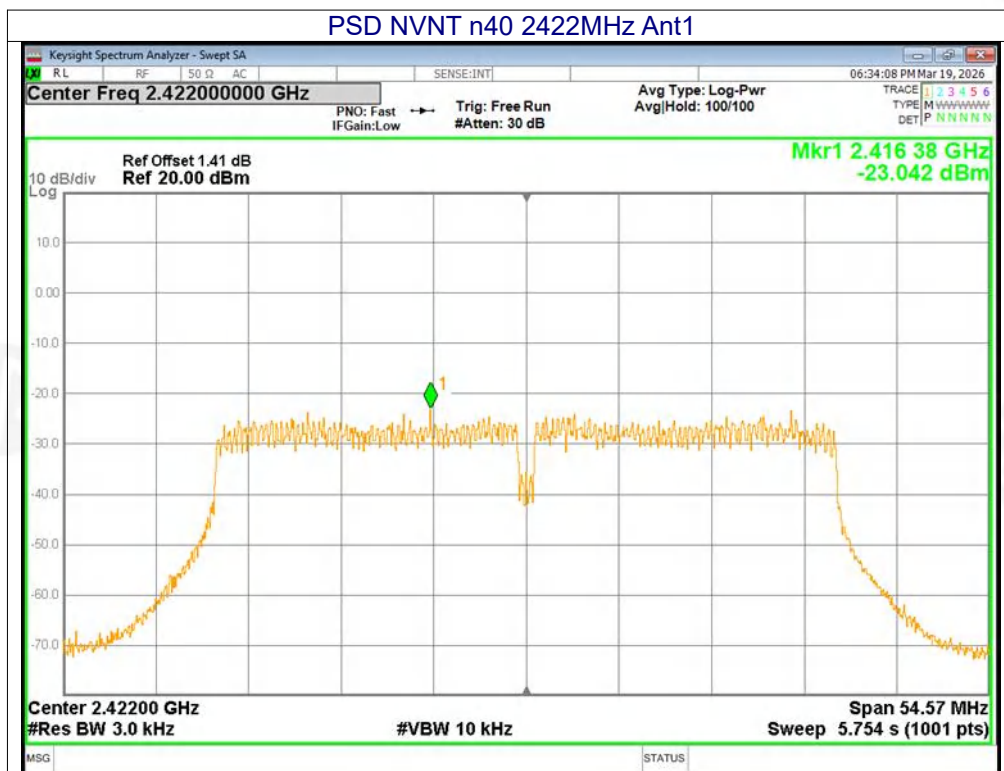
PSD NVNT n20 2462MHz Ant1





Temperature :	24.2℃	Relative Humidity :	53.6%
Pressure :	101.4kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX n Mode(40M)		

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422 MHz	-23.04	8	PASS
2437 MHz	-22.29	8	PASS
2452 MHz	-22.52	8	PASS





PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1





7. CHANNEL BANDWIDTH& 99% OCCUPY BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10-2020+Cor 1-2023 and KDB558074 D01DTS Meas Guidancev05r02

7.1 APPLIED PROCEDURES / 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

7.2 TEST PROCEDURE

1. Set RBW = 1~5% OBW (For DTS BW, RBW is not less than 100 kHz.) .
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
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.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



7.6 TEST RESULT

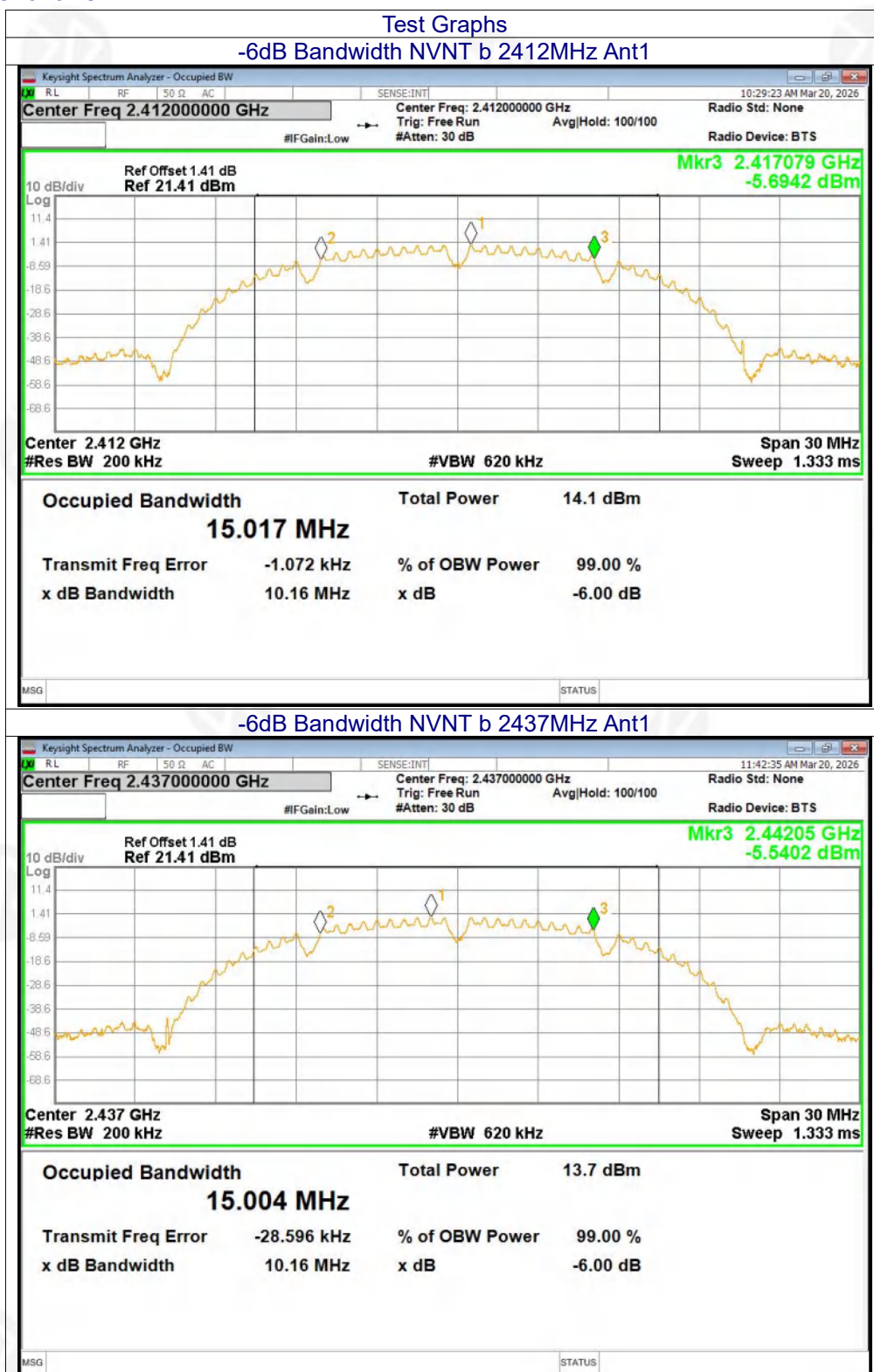
Temperature :	24.2℃	Relative Humidity :	53.6%
Pressure :	101.4kPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40) Mode		

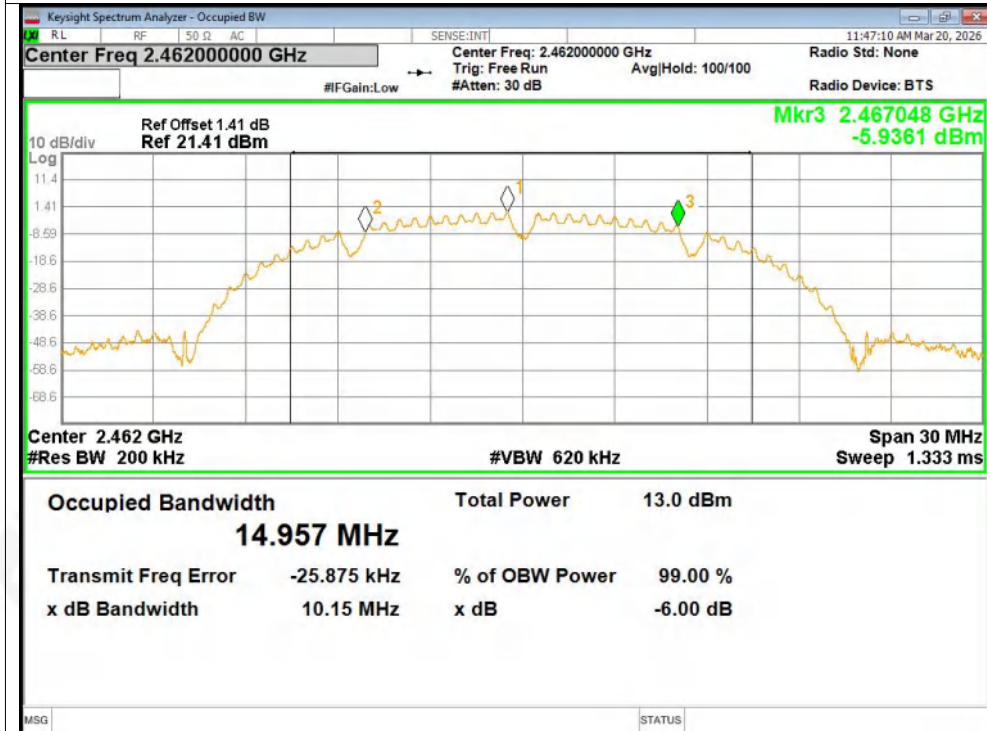
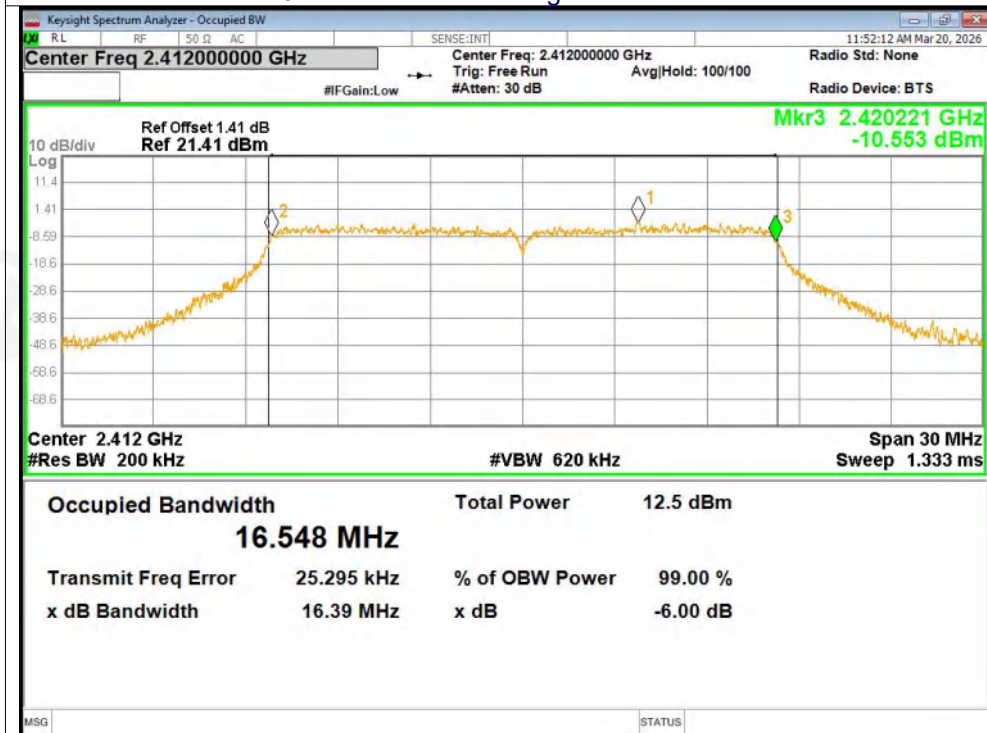
Test CH	-6dB Occupy Bandwidth (MHz)					Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(kHz)	
Lowest	10.159	16.391	17.525	36.38	>500	Pass
Middle	10.158	16.344	17.419	36.277		
Highest	10.149	16.35	17.301	36.348		

Test CH	99% OBW (MHz)					Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(kHz)	
Lowest	15.008	16.538	17.644	36.181	>500	Pass
Middle	14.996	16.592	17.625	36.12		
Highest	14.963	16.504	17.663	36.126		



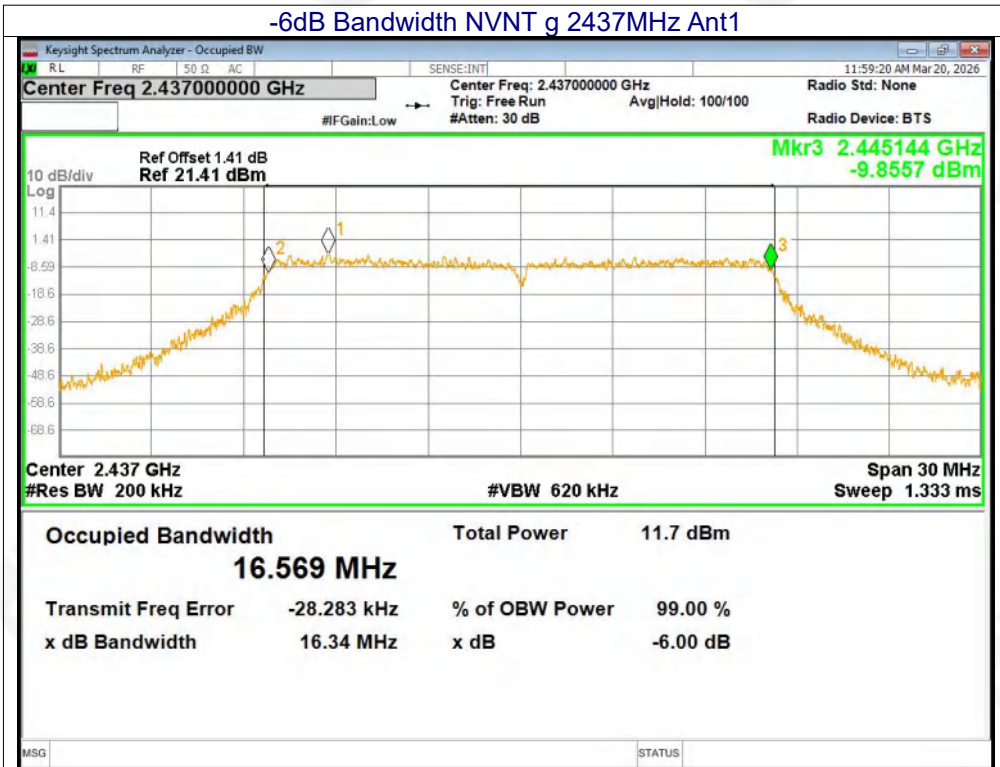
Test plot as follows:



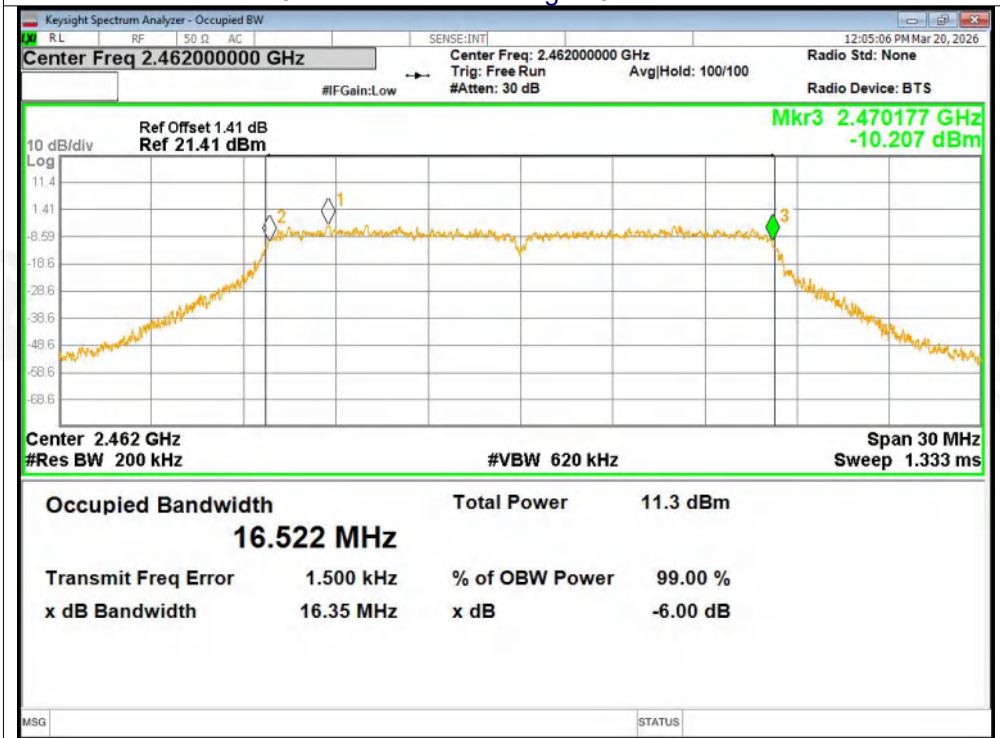
**-6dB Bandwidth NVNT b 2462MHz Ant1****-6dB Bandwidth NVNT g 2412MHz Ant1**



-6dB Bandwidth NVNT g 2437MHz Ant1

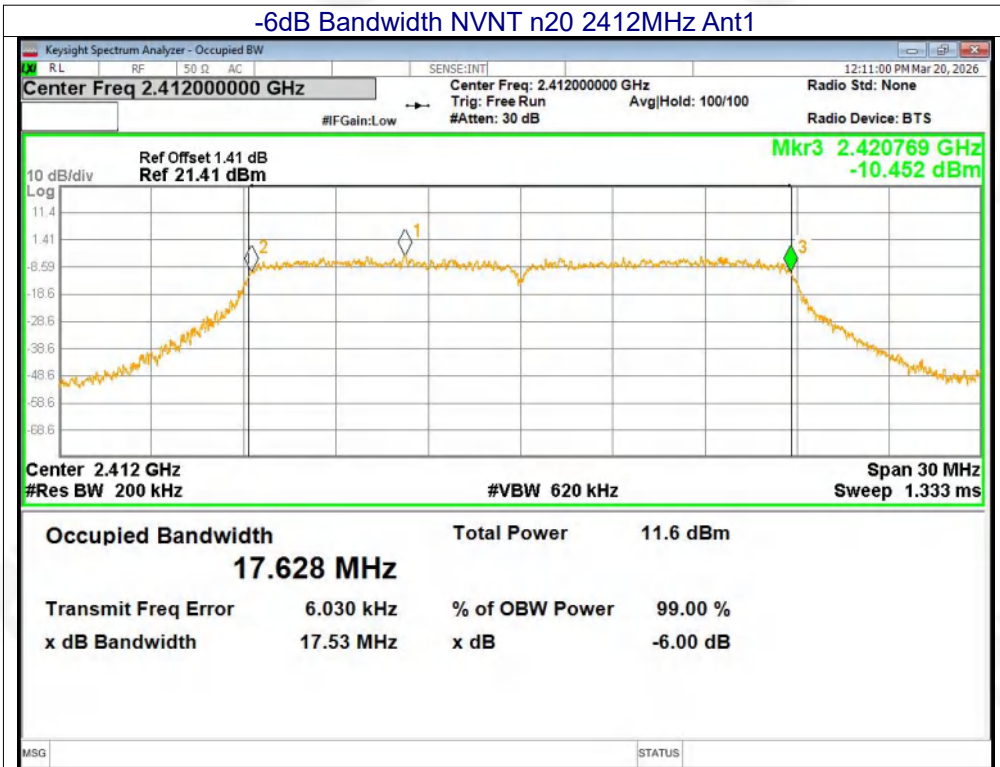


-6dB Bandwidth NVNT g 2462MHz Ant1

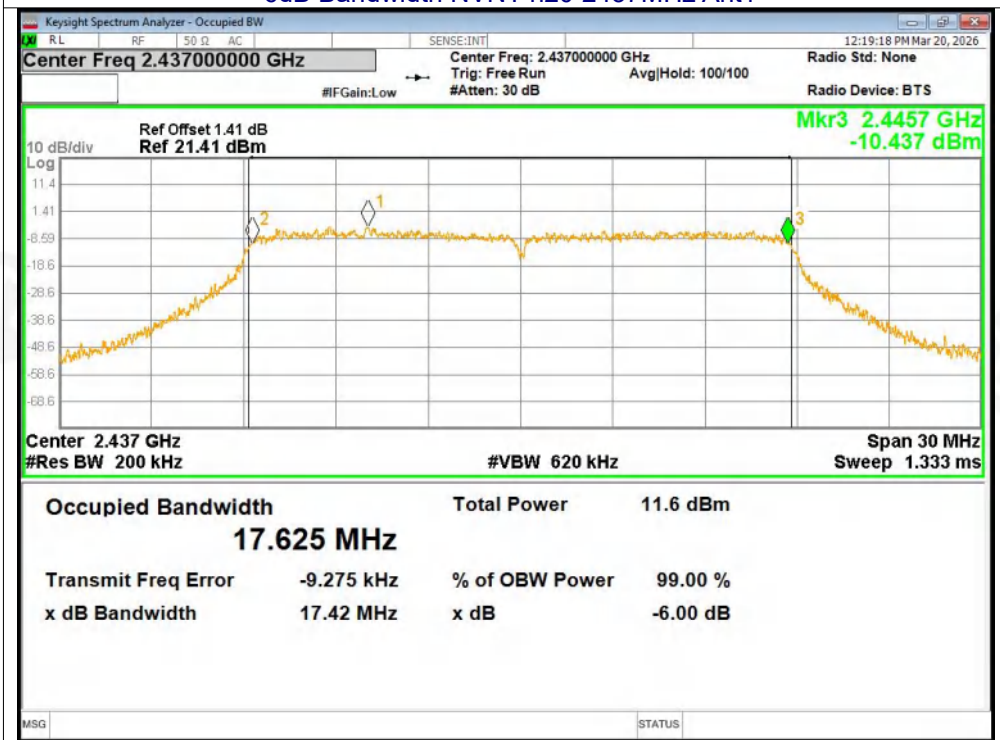


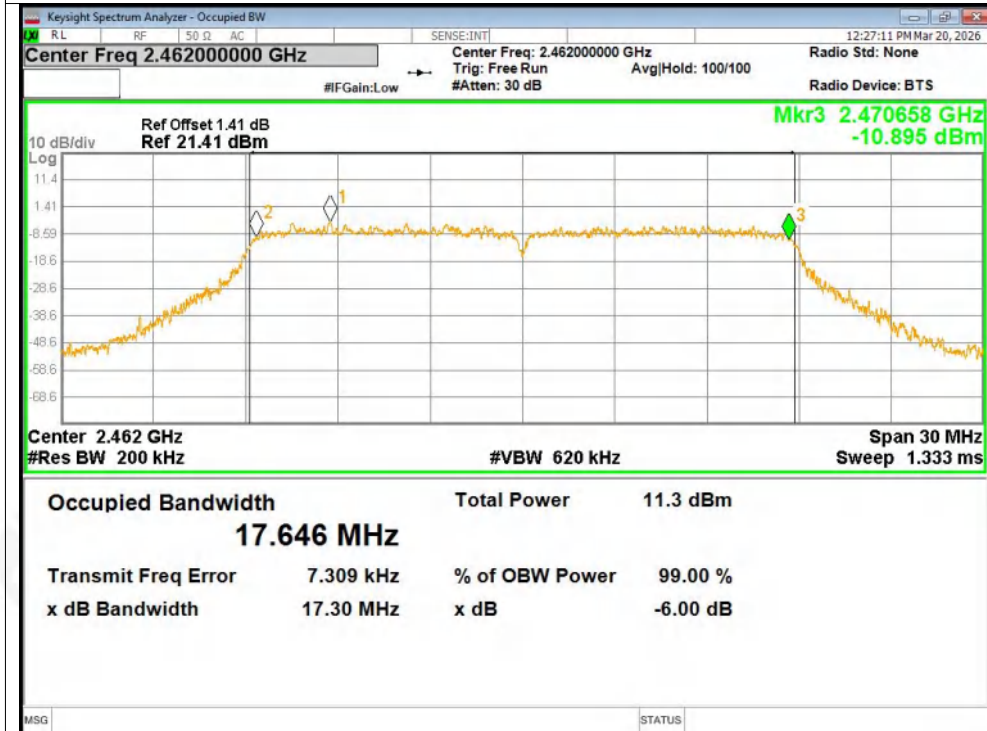
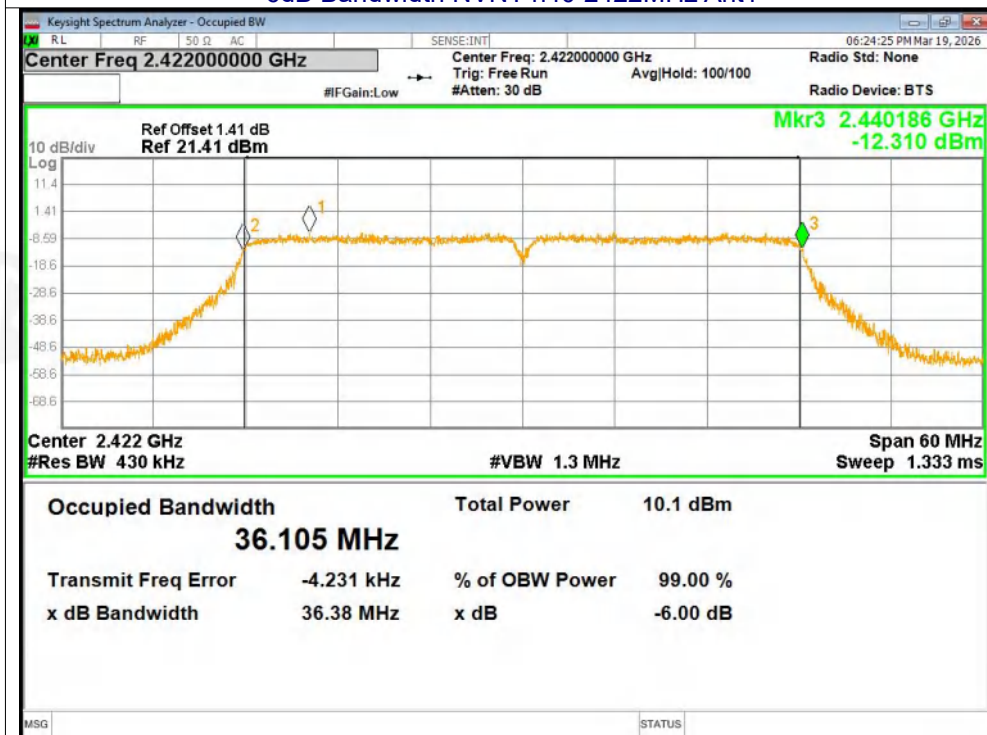


-6dB Bandwidth NVNT n20 2412MHz Ant1



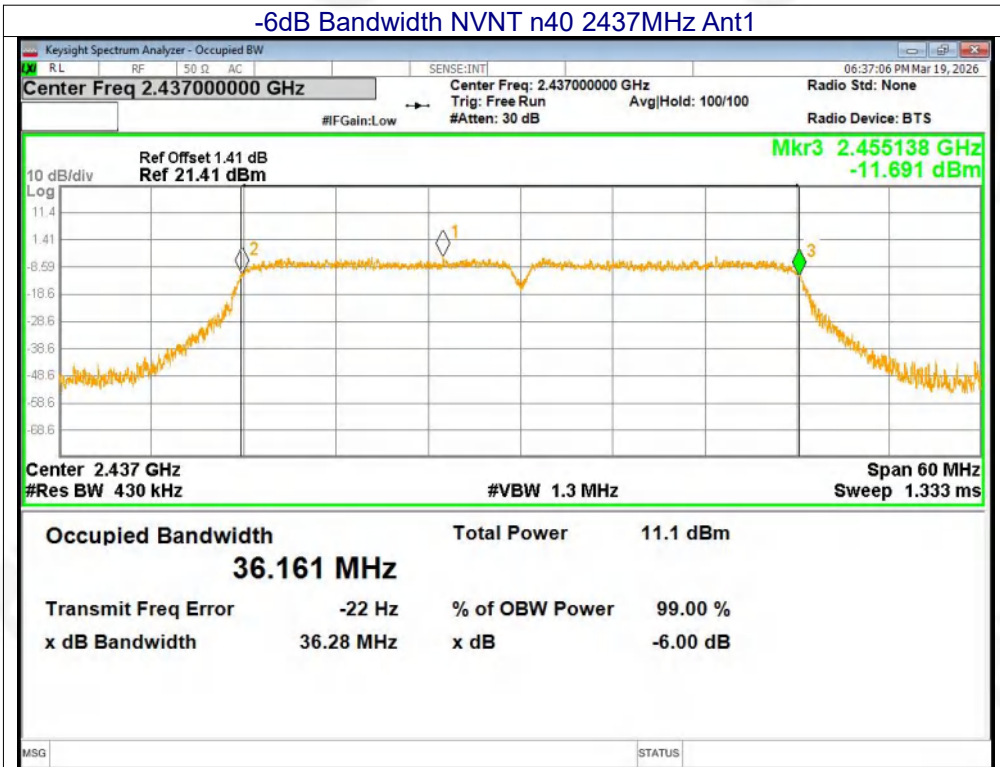
-6dB Bandwidth NVNT n20 2437MHz Ant1



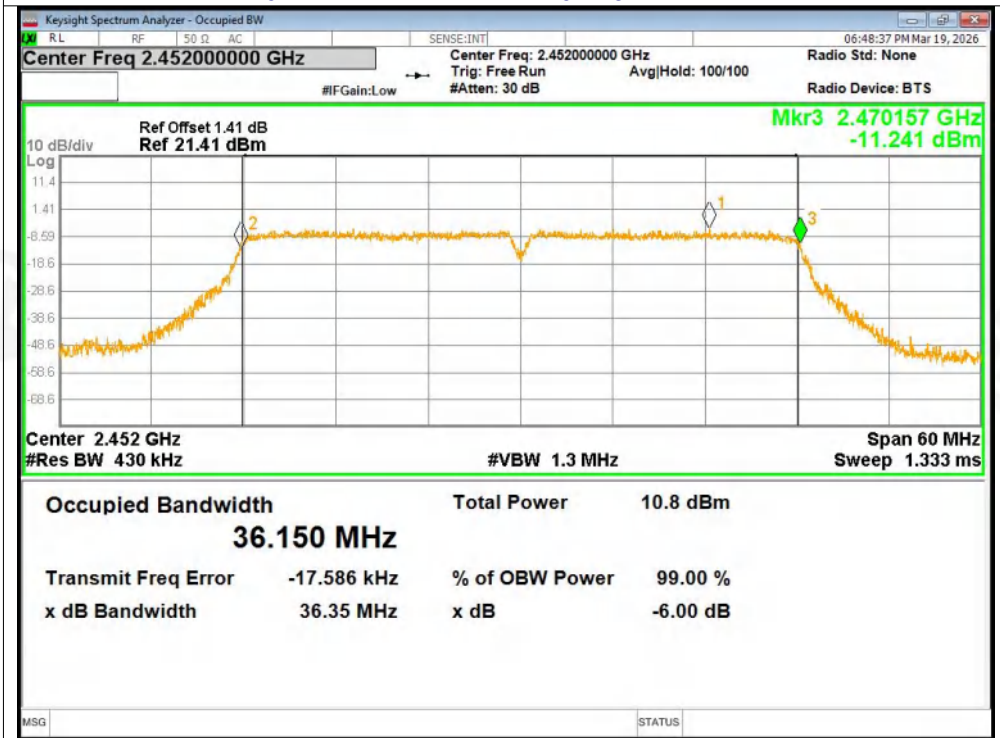
**-6dB Bandwidth NVNT n20 2462MHz Ant1****-6dB Bandwidth NVNT n40 2422MHz Ant1**



-6dB Bandwidth NVNT n40 2437MHz Ant1



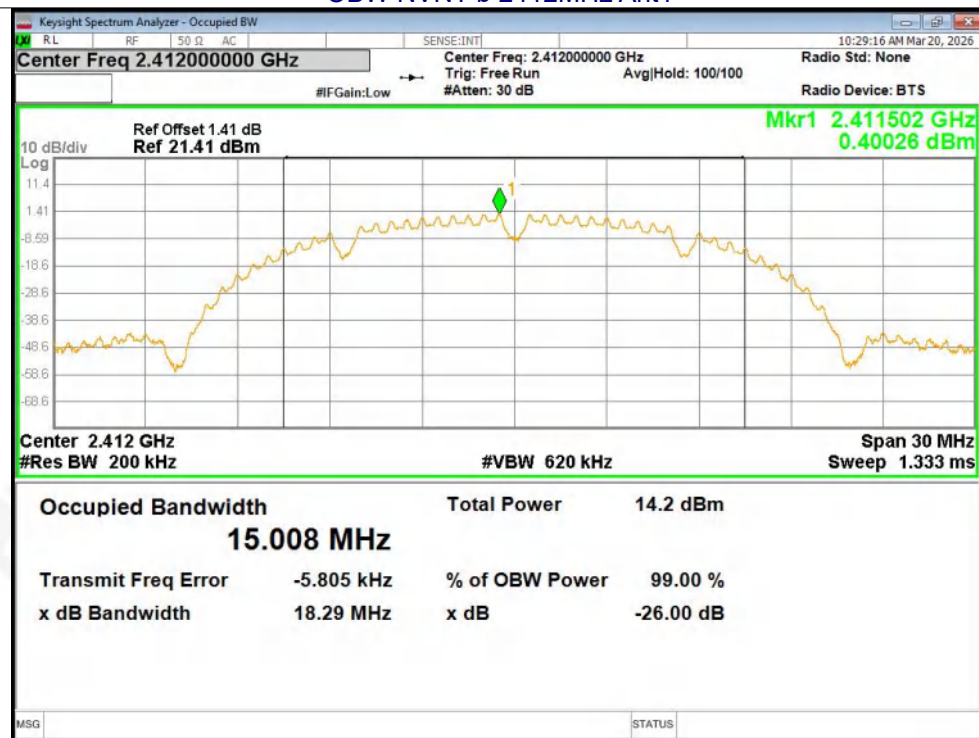
-6dB Bandwidth NVNT n40 2452MHz Ant1



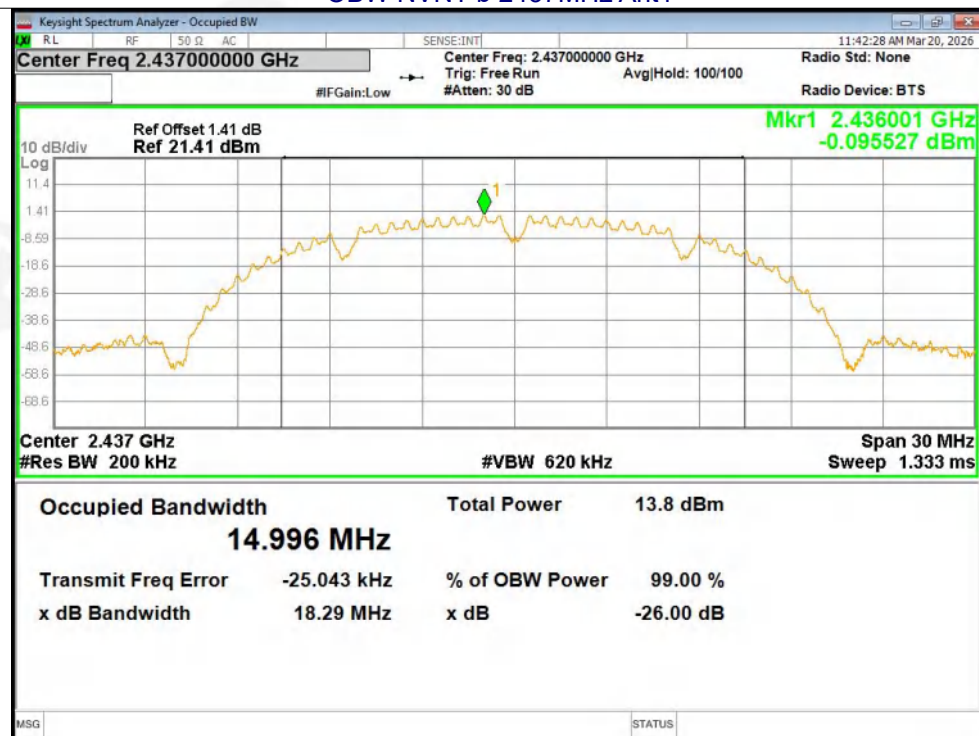


Test Graphs

OBW NVNT b 2412MHz Ant1

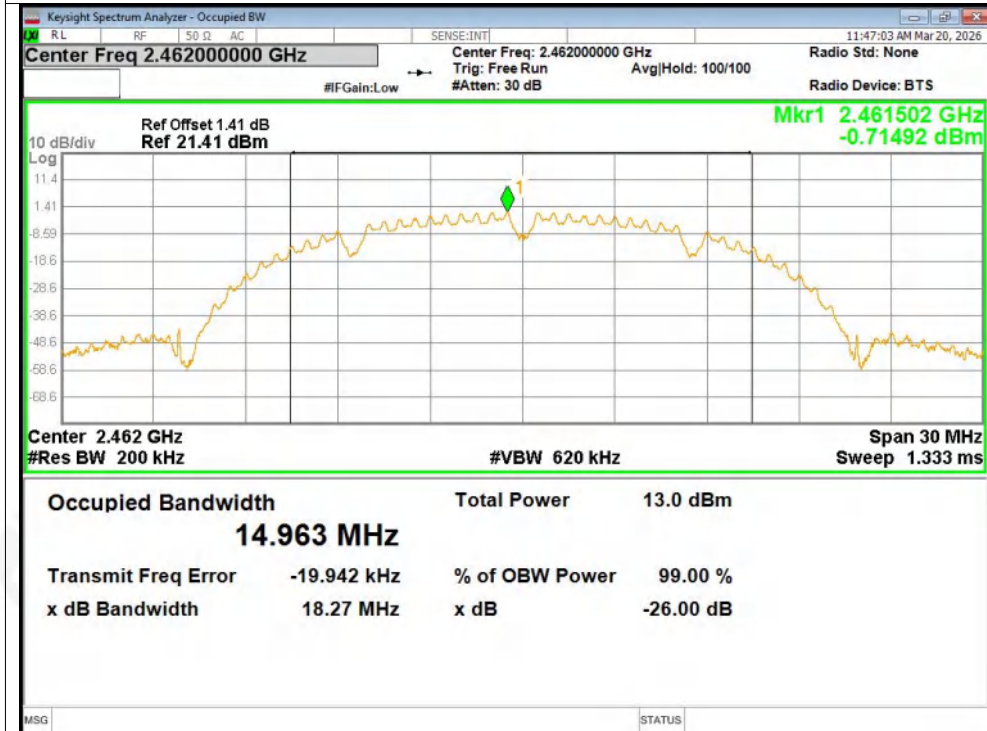


OBW NVNT b 2437MHz Ant1

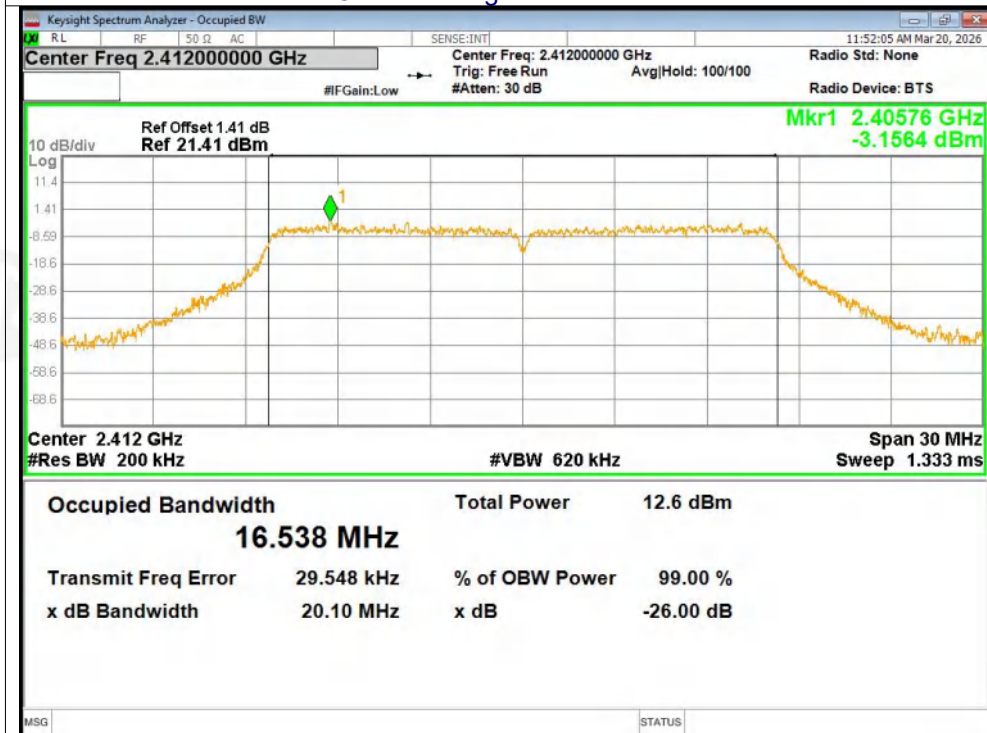




OBW NVNT b 2462MHz Ant1

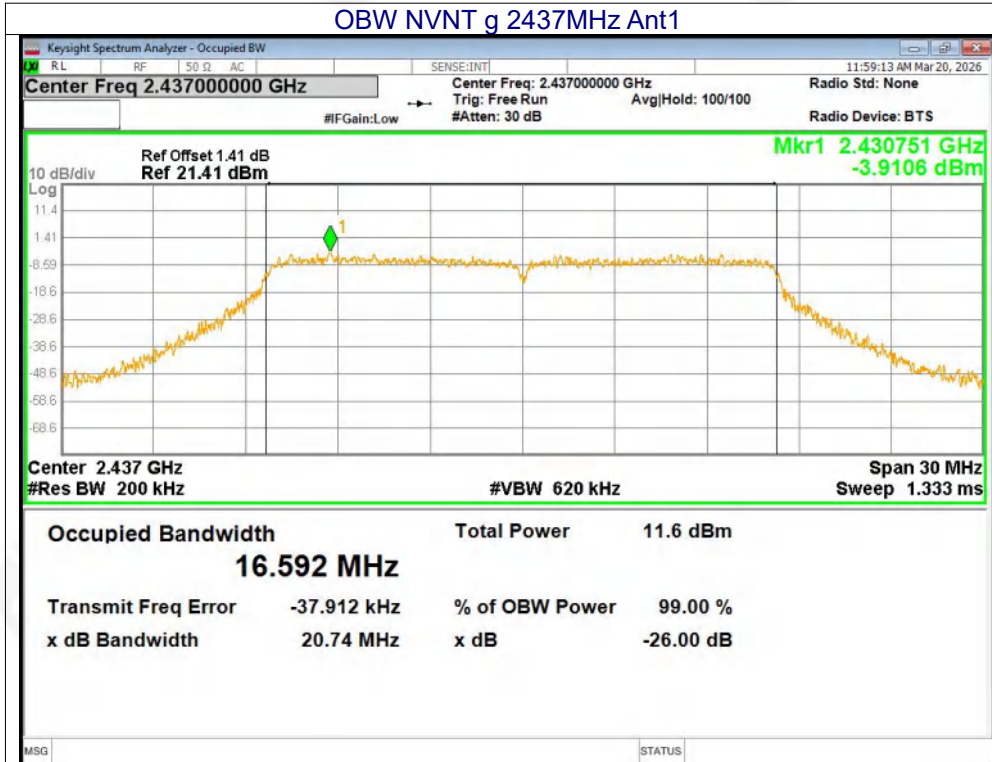


OBW NVNT g 2412MHz Ant1

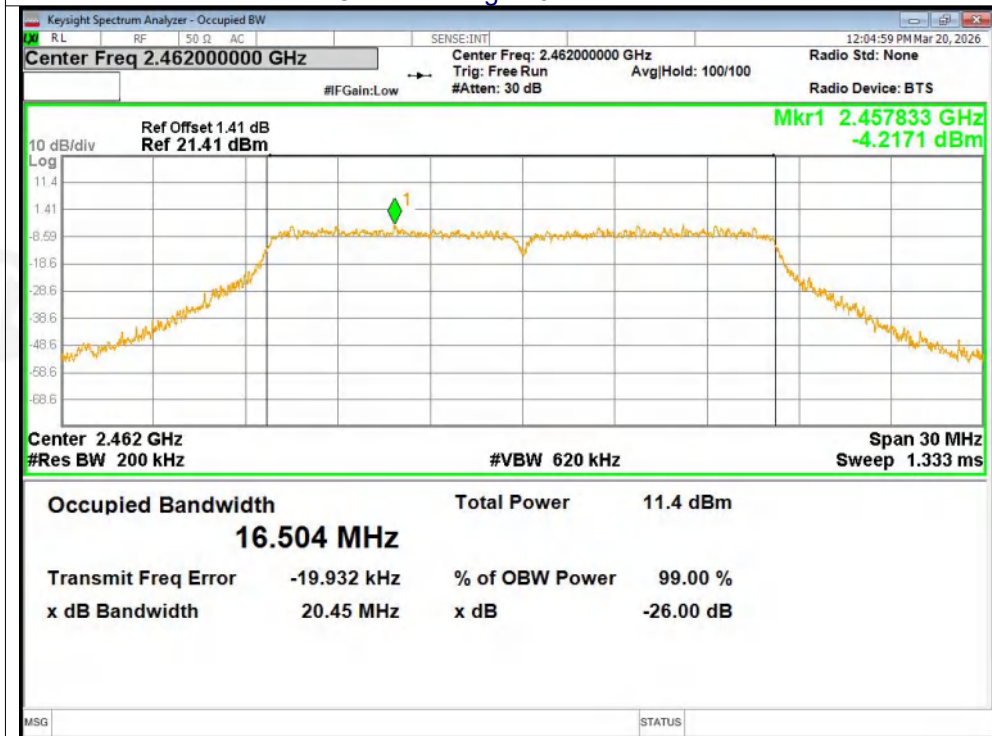




OBW NVNT g 2437MHz Ant1

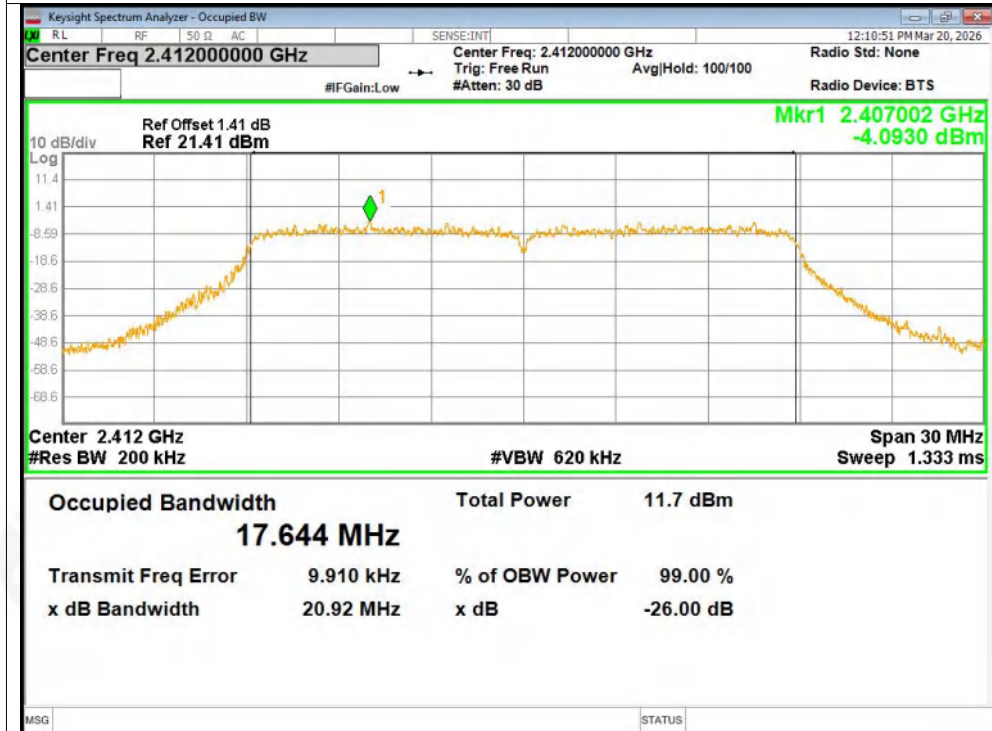


OBW NVNT g 2462MHz Ant1

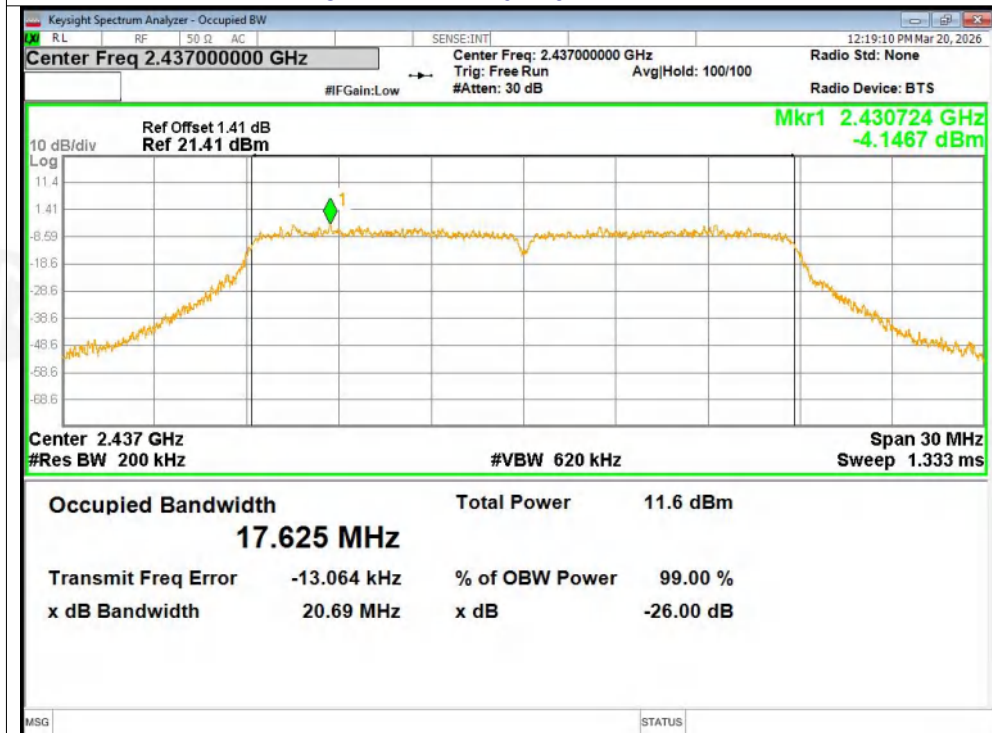




OBW NVNT n20 2412MHz Ant1

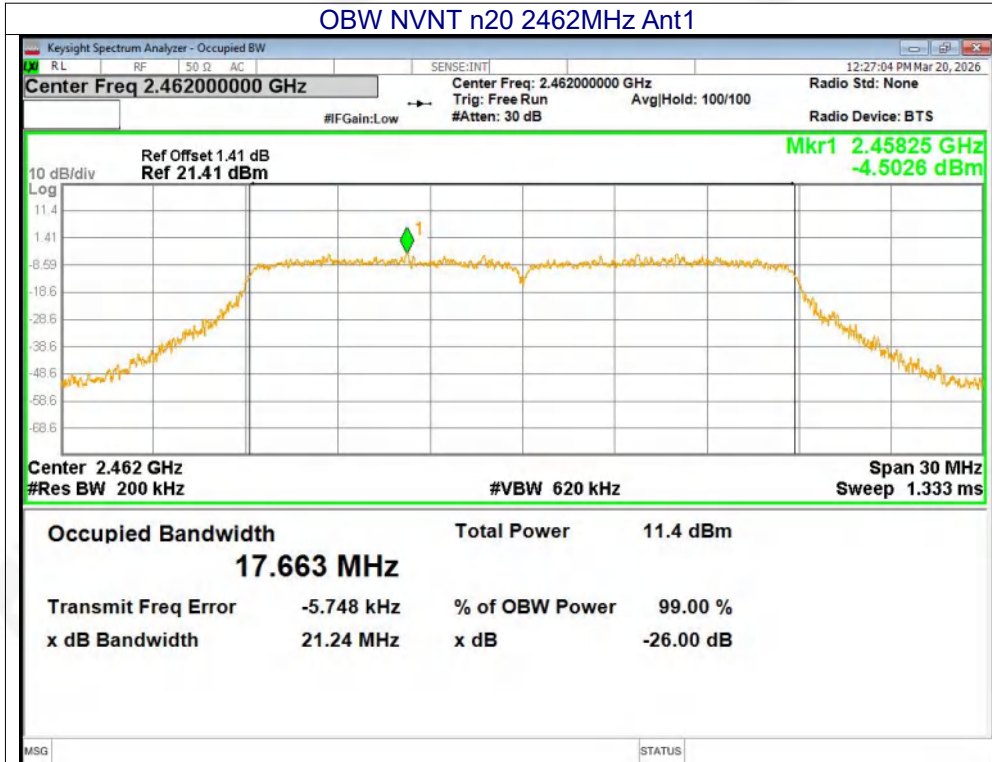


OBW NVNT n20 2437MHz Ant1

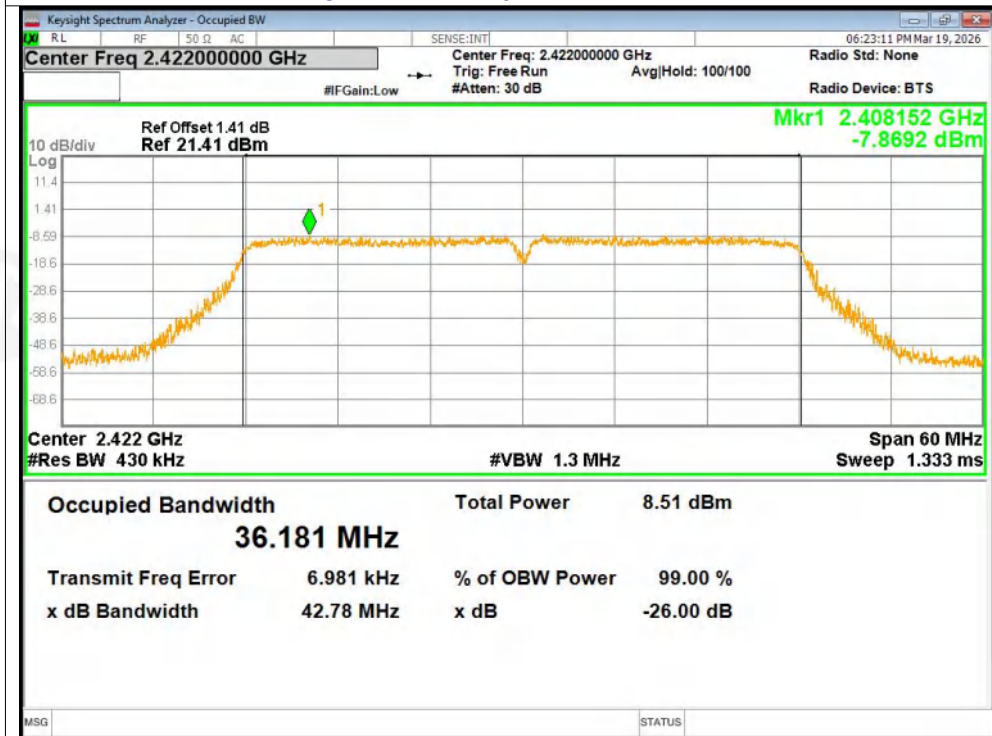




OBW NVNT n20 2462MHz Ant1

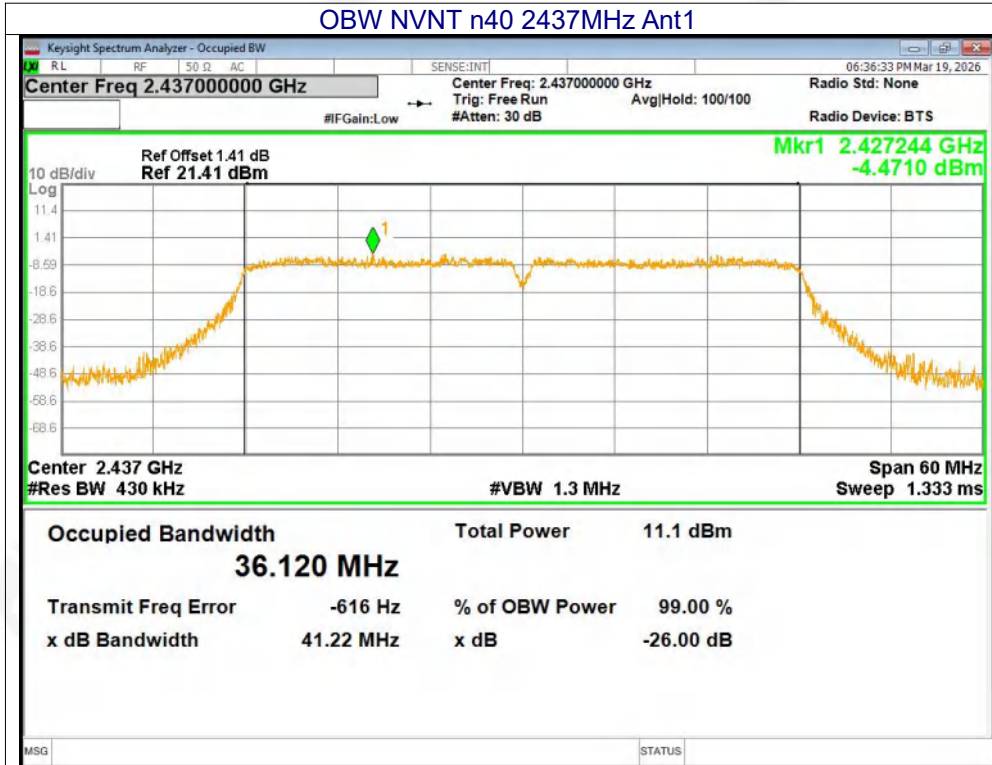


OBW NVNT n40 2422MHz Ant1

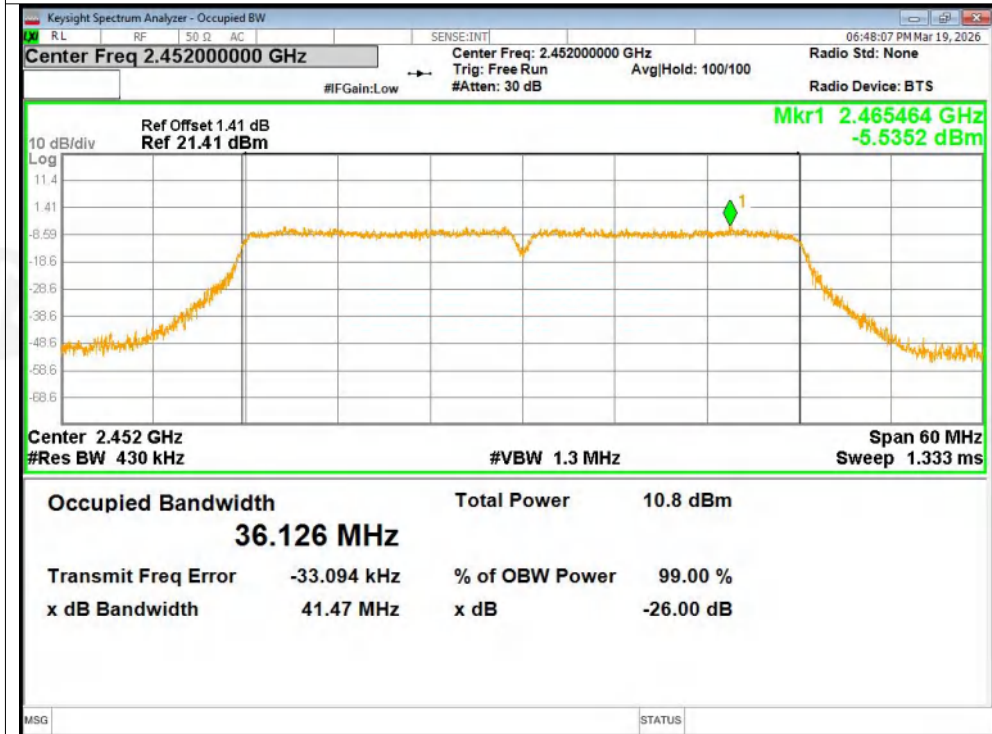




OBW NVNT n40 2437MHz Ant1



OBW NVNT n40 2452MHz Ant1





8. PEAK OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10-2020+Cor 1-2023 and KDB558074 D01DTS Meas Guidancev05r02

8.1 APPLIED PROCEDURES/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

8.2 TEST PROCEDURE

- The EUT was directly connected to the Power meter

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



8.6 TEST RESULT

Temperature :	24.2℃	Relative Humidity :	53.6%
Pressure :	101.4kPa	Test Voltage :	AC 120V/60Hz

Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	7.86	8.43	8.31	8.58	30.00	Pass
Middle	7.77	8.33	8.3	8.52		
Highest	7.48	8.1	7.98	7.81		



9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10-2020+Cor 1-2023 and KDB558074 D01DTS Meas Guidancev05r02

9.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in§15.205(a), must also comply with the radiated emission limits specified in15.209(a).

9.2 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.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

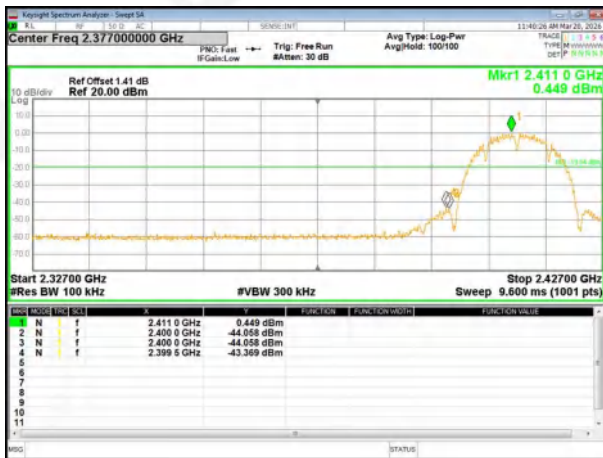
9.6 TEST RESULTS



Test plot as follows:

Test mode:

802.11b



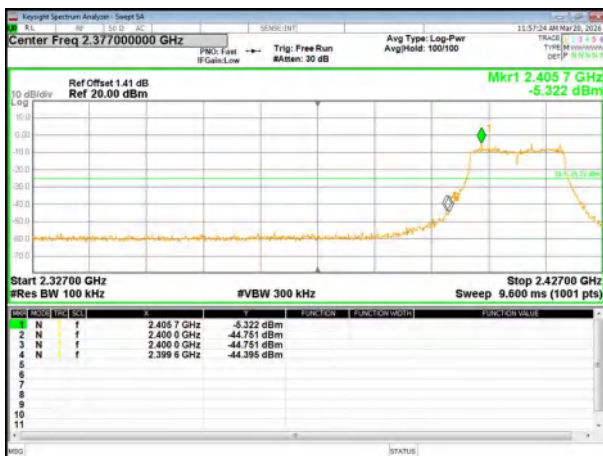
Lowest channel



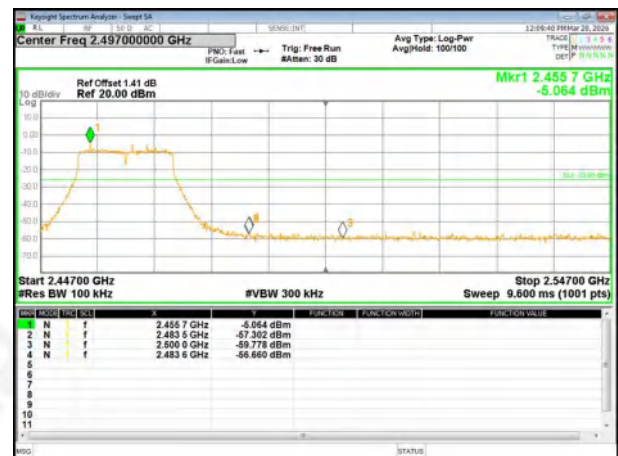
Highest channel

Test mode:

802.11g



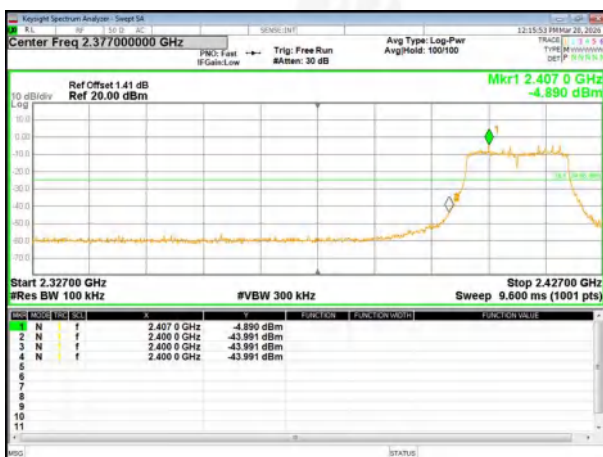
Lowest channel



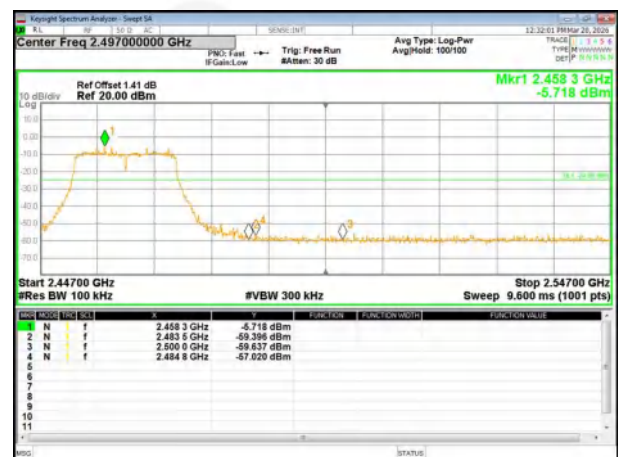
Highest channel

Test mode:

802.11n(HT20)



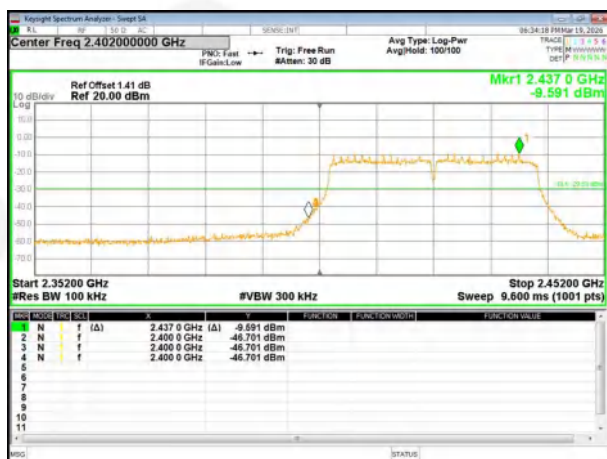
Lowest channel



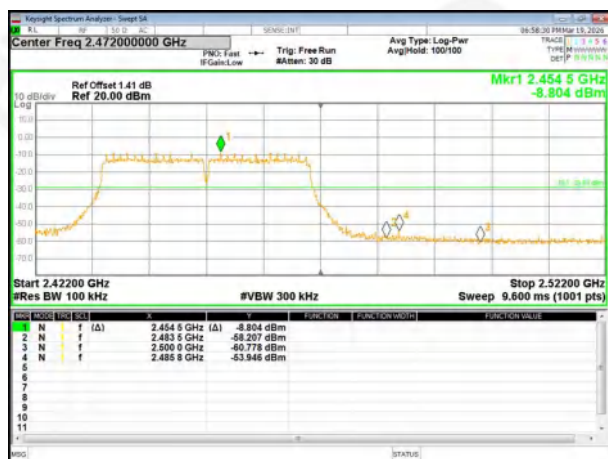
Highest channel



Test mode:	802.11n(HT40)
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Lowest channel



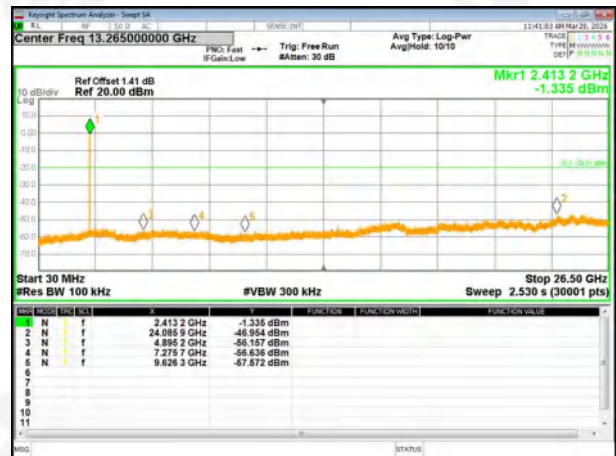
Highest channel



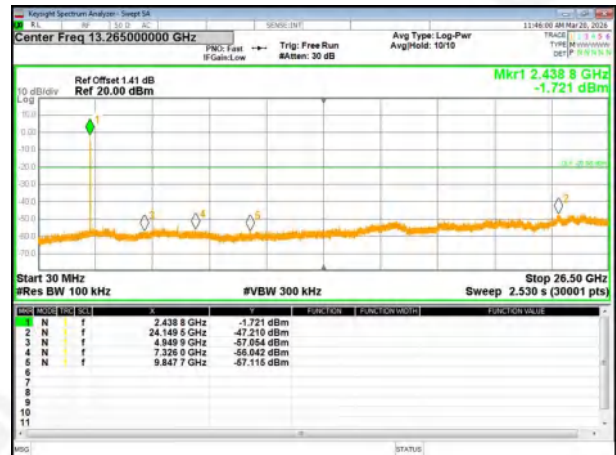
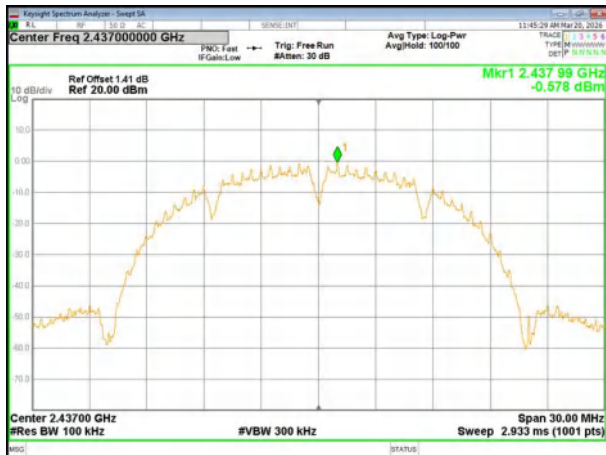
Test plot as follows:

802.11b

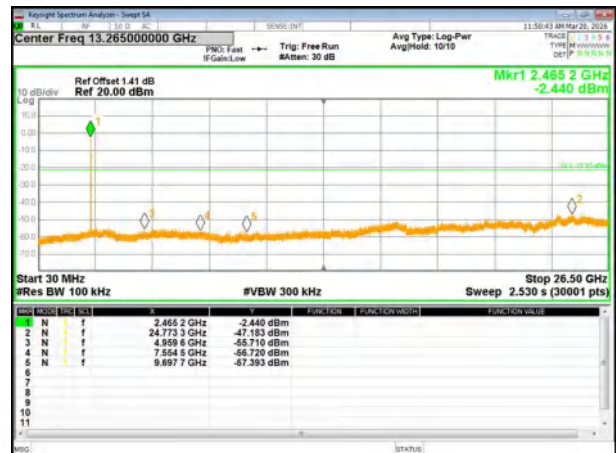
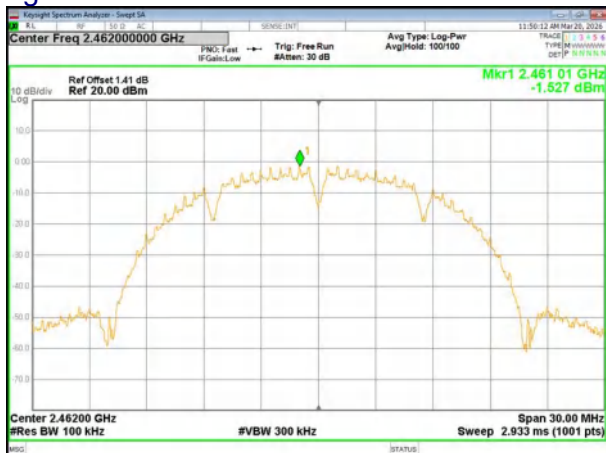
Lowest channel



Middle channel



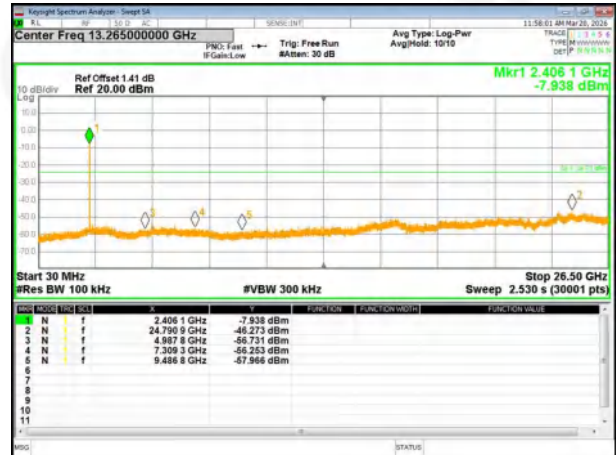
Highest channel



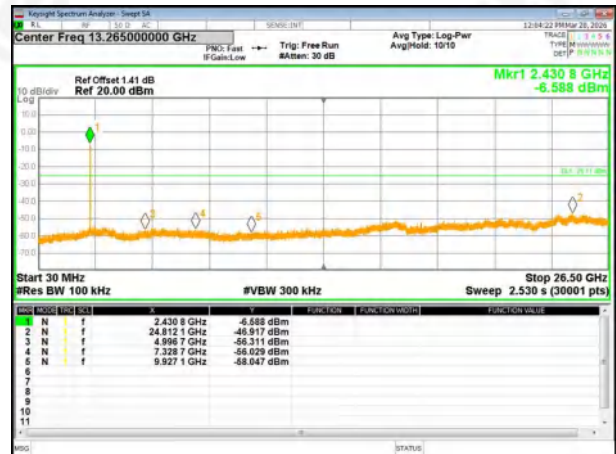


802.11g

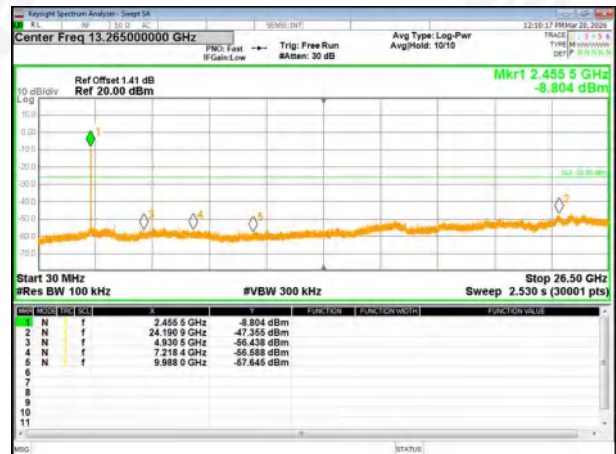
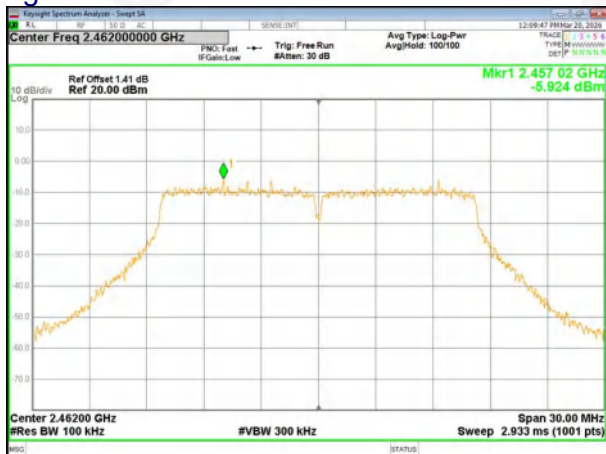
Lowest channel



Middle channel



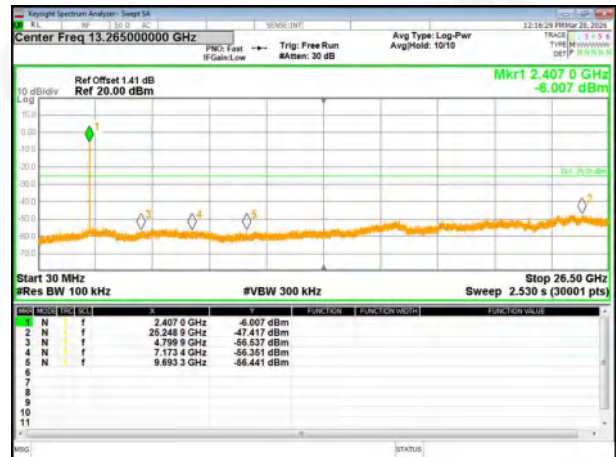
Highest channel



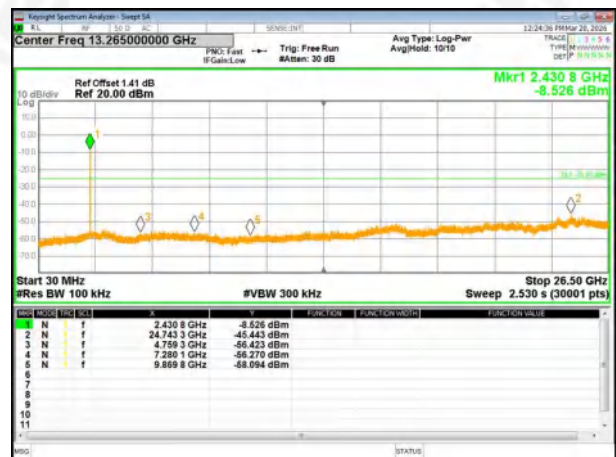
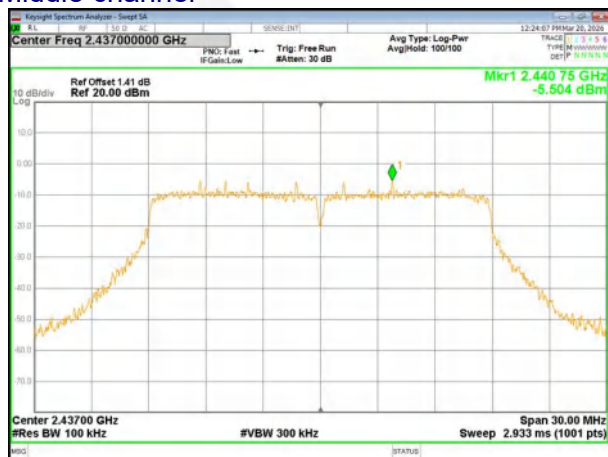


802.11n(HT20)

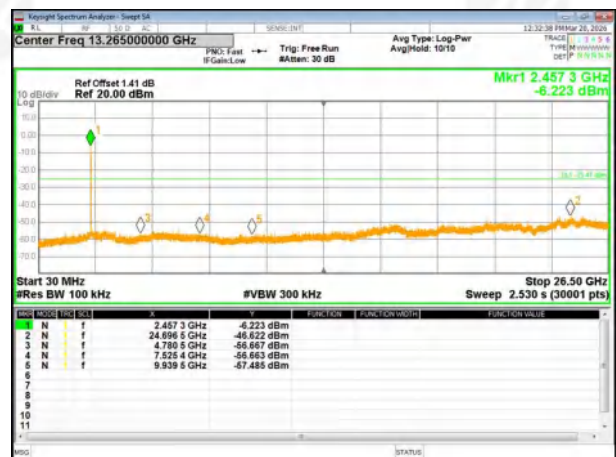
Lowest channel



Middle channel



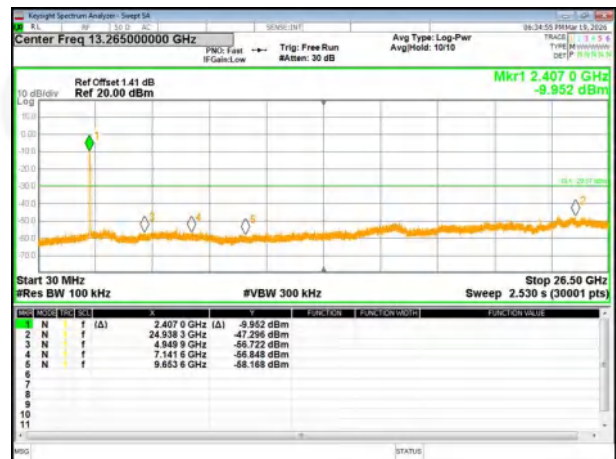
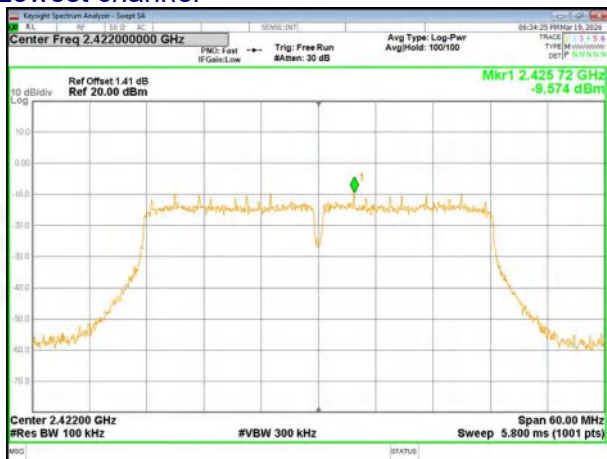
Highest channel



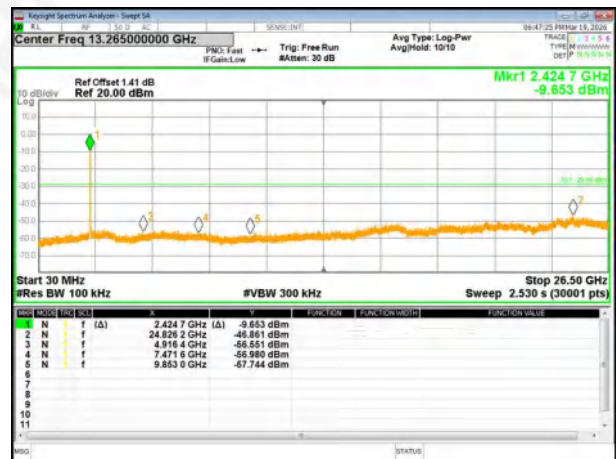


802.11n(HT40)

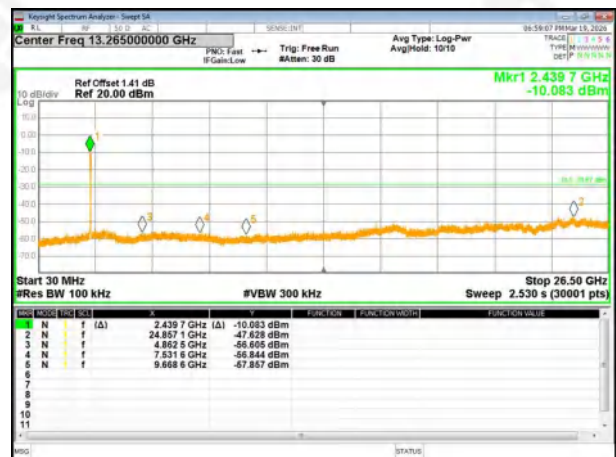
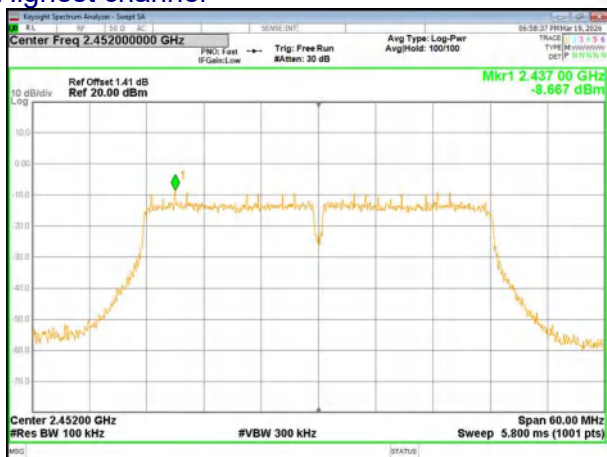
Lowest channel



Middle channel



Highest channel





10. DUTY CYCLE

Mode	Frequency (MHz)	T _{on} ms	T _{total} ms	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
b	2412	12.50	12.65	98.81	0	0.08
b	2437	12.50	12.65	98.89	0	0.08
b	2462	12.50	12.64	99.2	0	0.08
g	2412	12.50	12.60	94.09	0.26	0.48
g	2437	2.08	2.21	94.09	0.26	0.48
g	2462	2.08	2.21	96.73	0.14	0.48
n20	2412	2.08	2.15	93.2	0.31	0.52
n20	2437	1.92	2.06	97.46	0.11	0.52
n20	2462	1.92	1.97	95.52	0.2	0.52
n40	2422	1.92	2.01	88.79	0.52	1.05
n40	2437	0.95	1.07	91.26	0.4	1.06
n40	2452	0.94	1.03	88.79	0.52	1.05

Note:

1. Duty Cycle = T_{on} / T_{total}

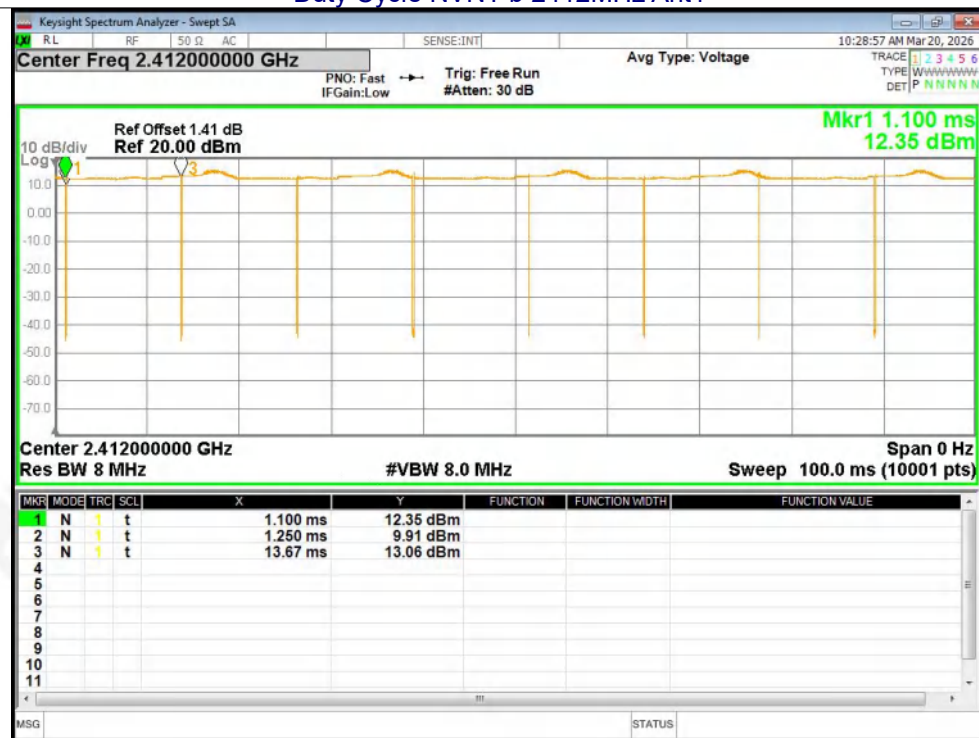
2. Correction Factor = $10 \log (1/ \text{Duty Cycle})$.

3. $1/T = 1/T_{on}$

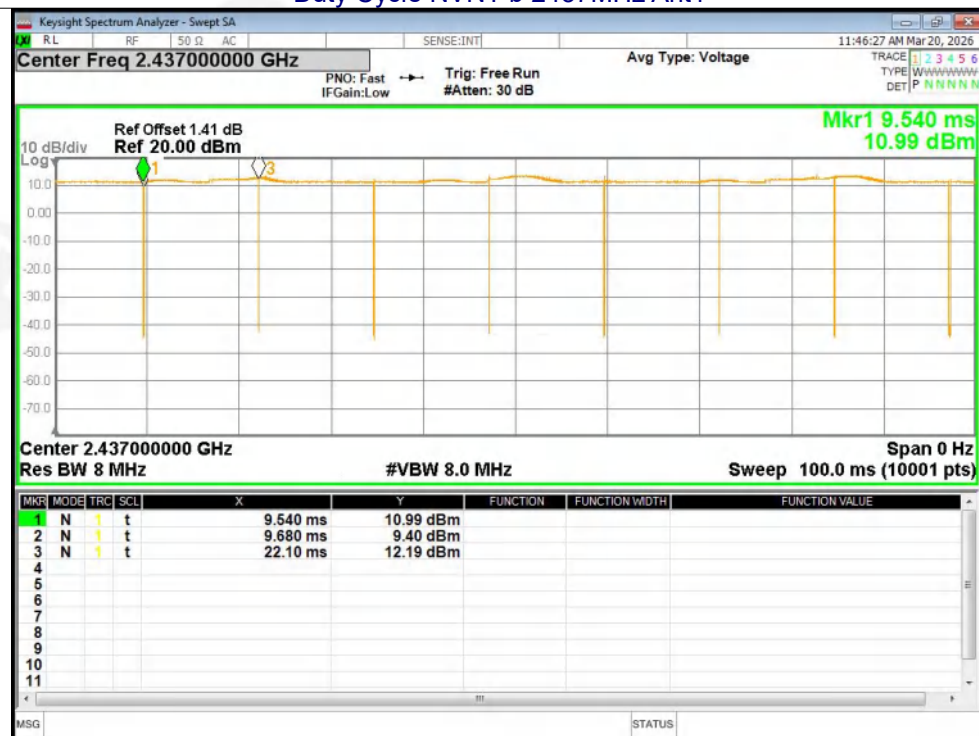


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1

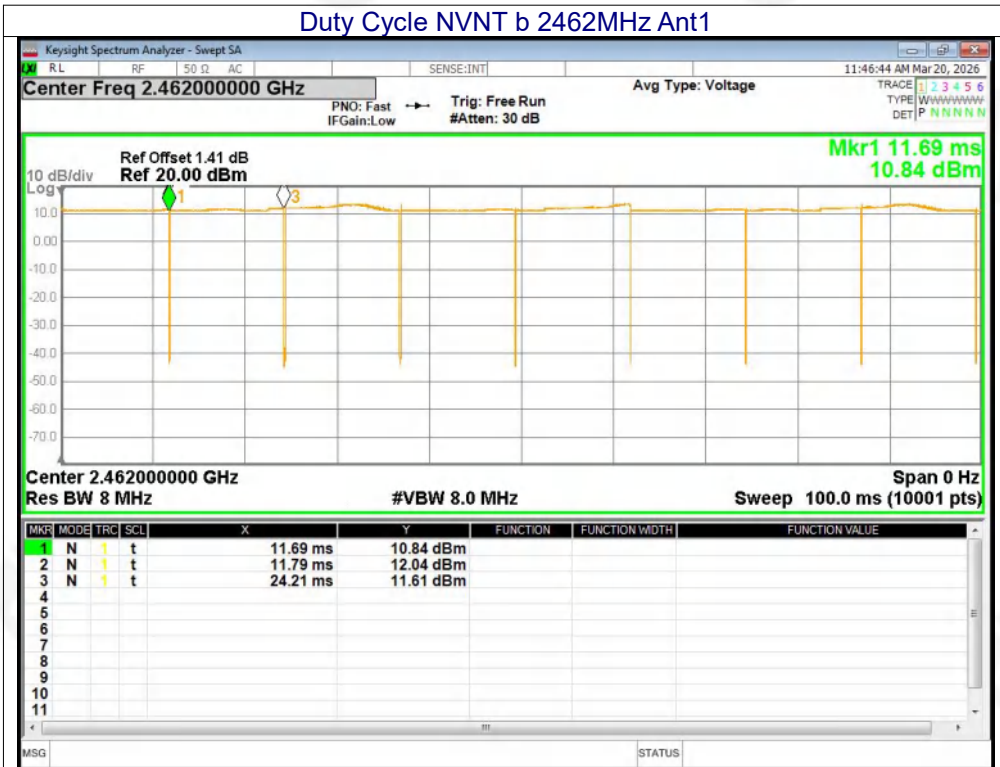


Duty Cycle NVNT b 2437MHz Ant1

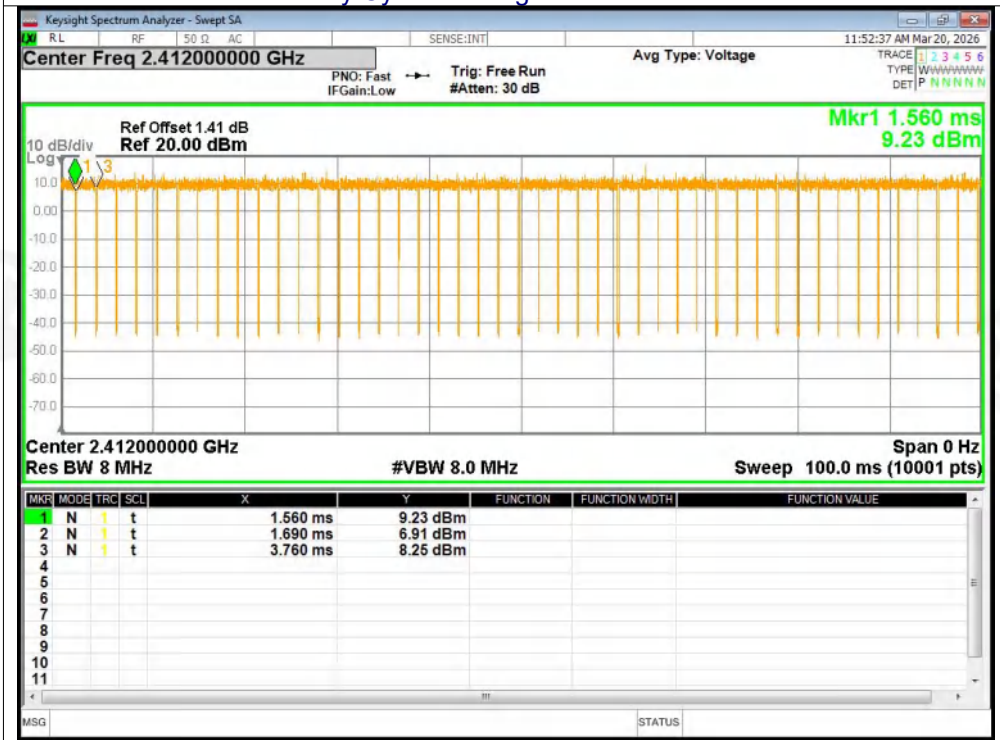




Duty Cycle NVNT b 2462MHz Ant1

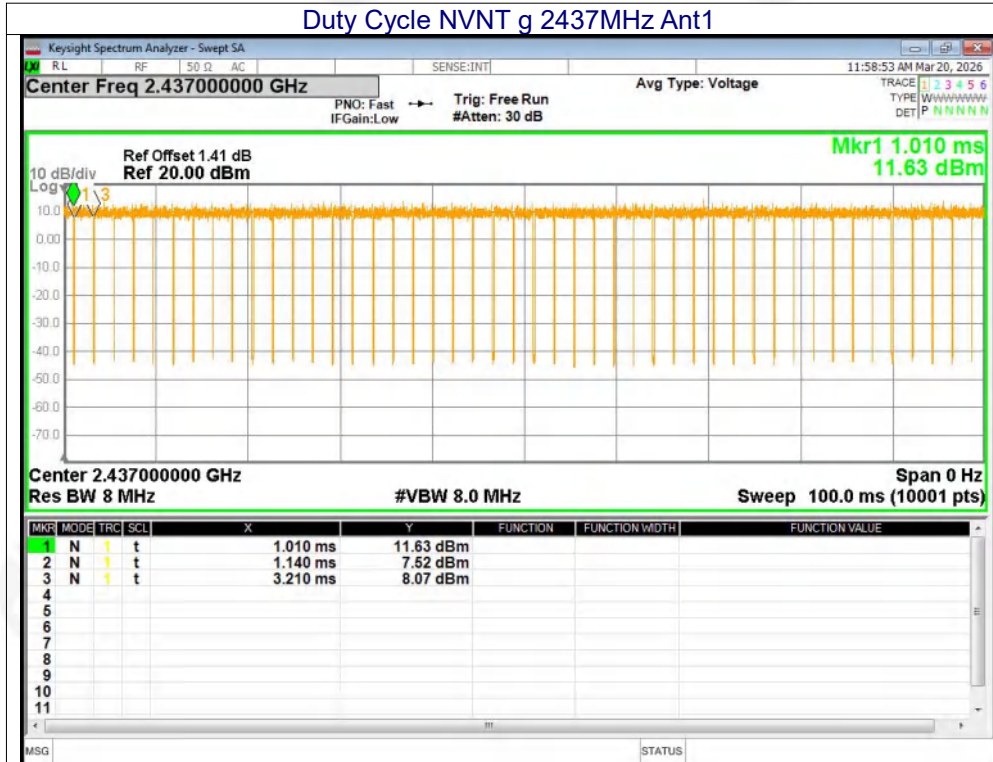


Duty Cycle NVNT g 2412MHz Ant1

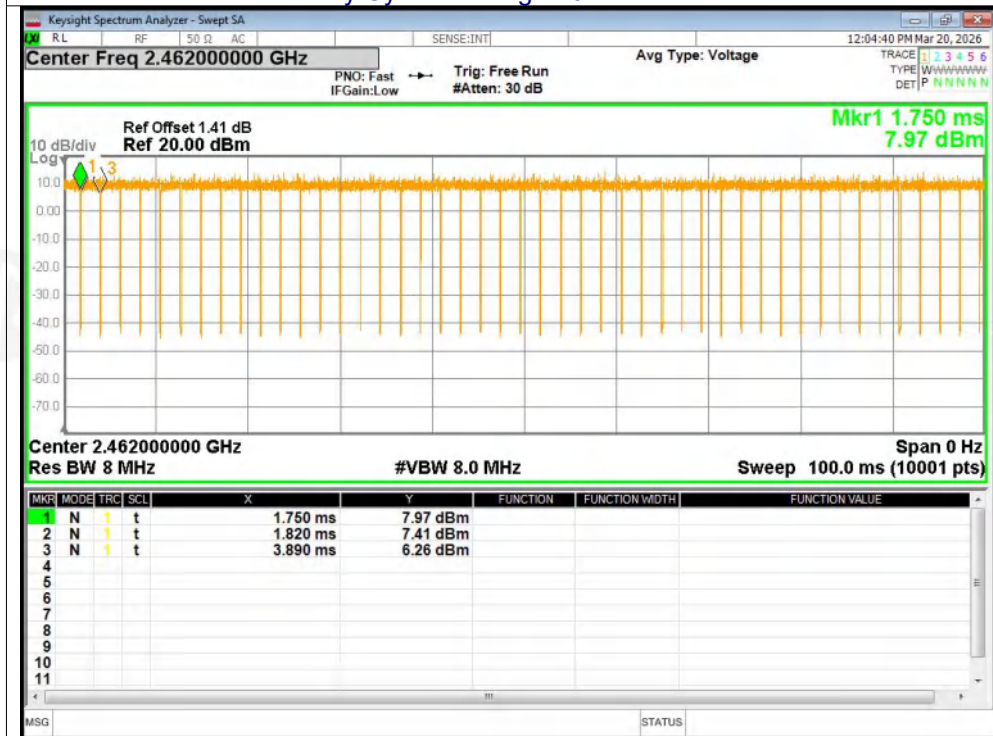




Duty Cycle NVNT g 2437MHz Ant1

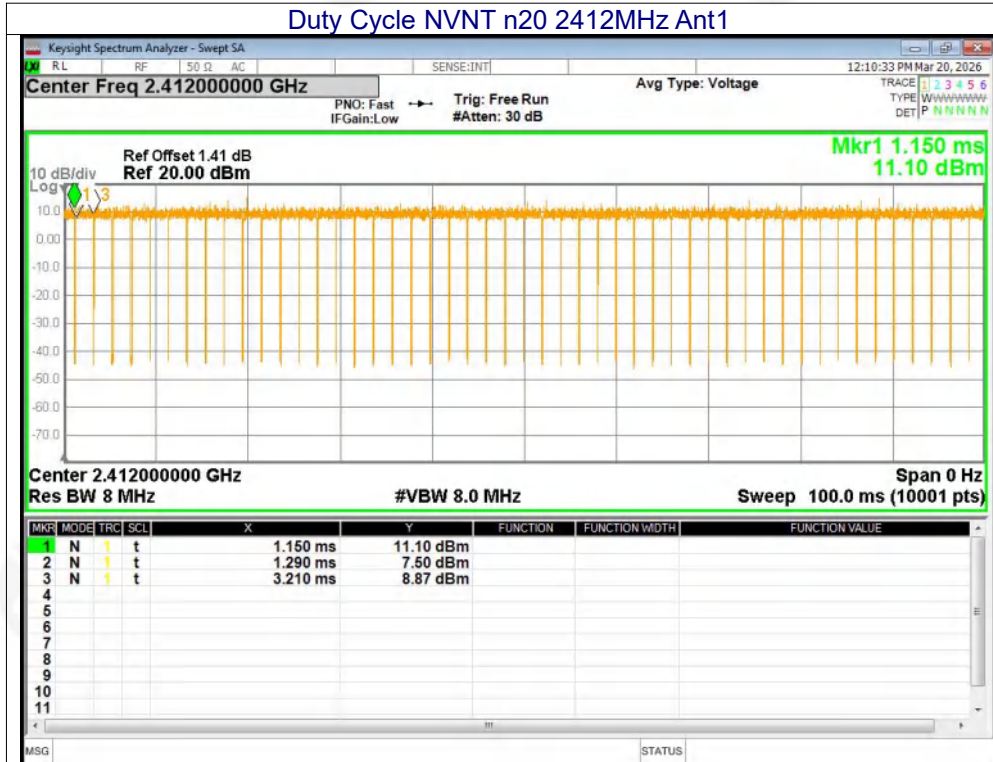


Duty Cycle NVNT g 2462MHz Ant1

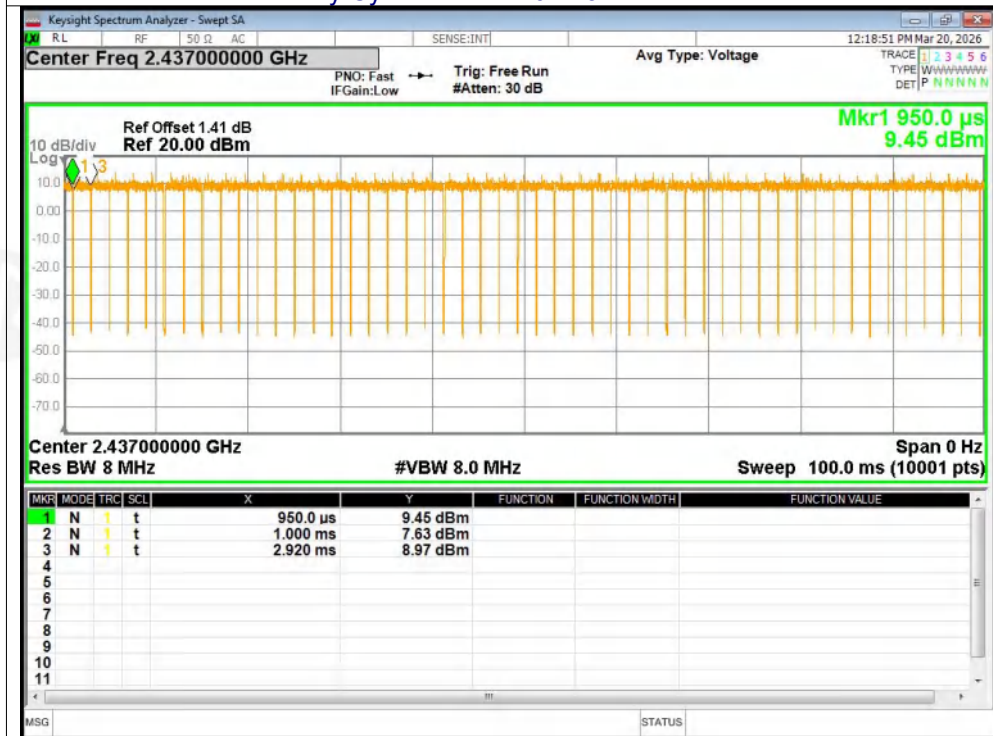




Duty Cycle NVNT n20 2412MHz Ant1

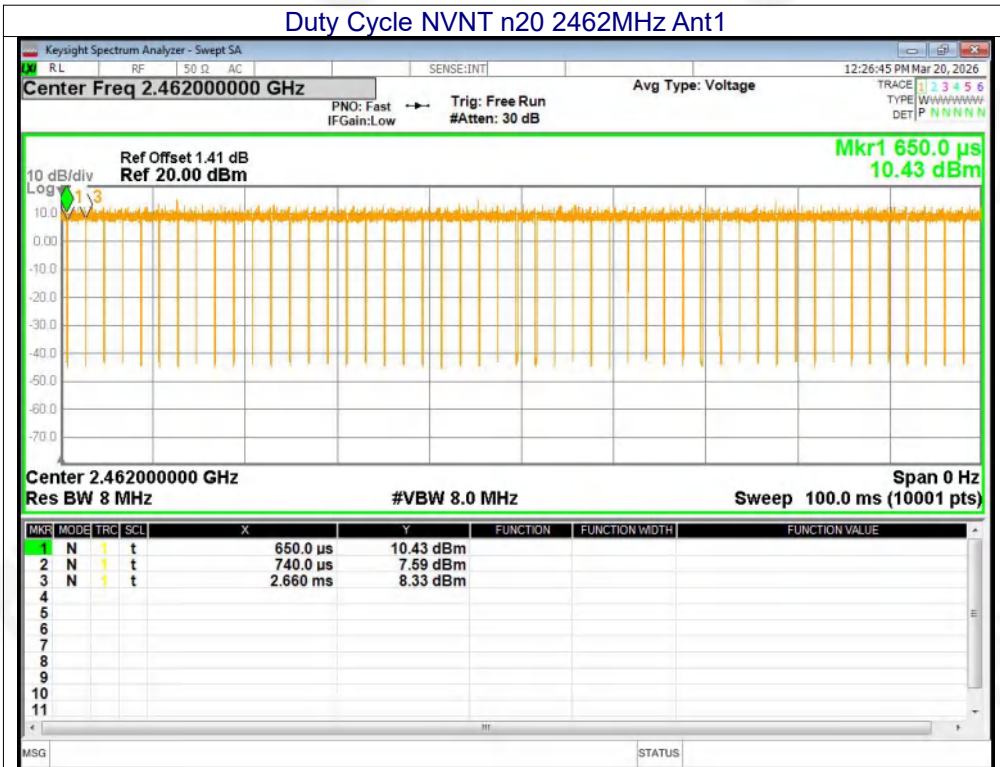


Duty Cycle NVNT n20 2437MHz Ant1

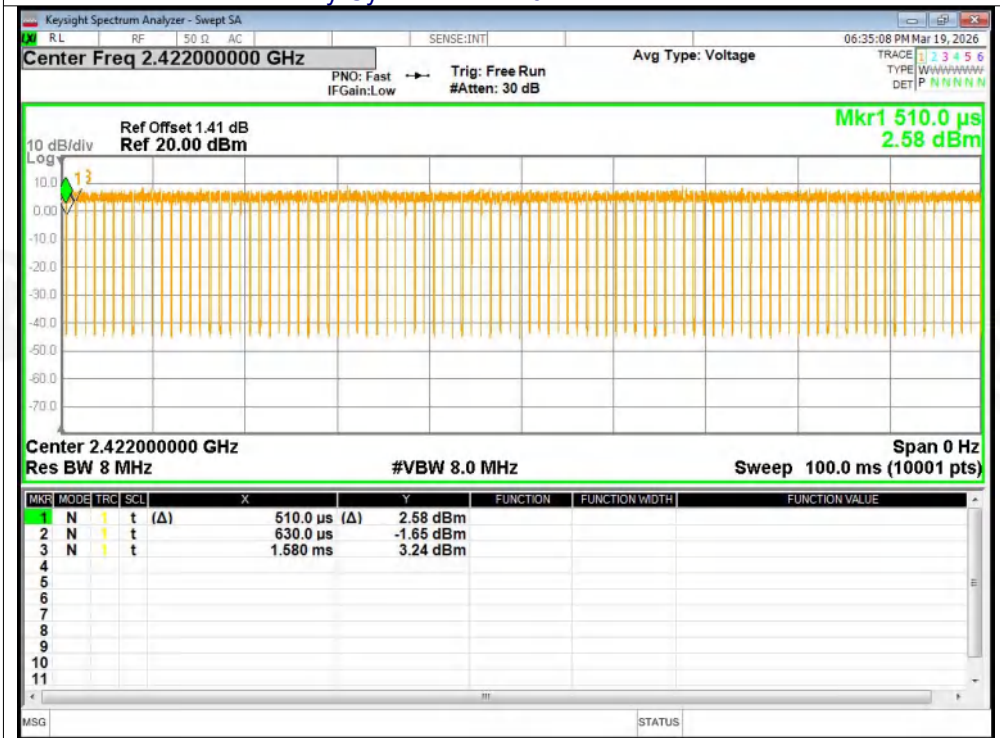




Duty Cycle NVNT n20 2462MHz Ant1

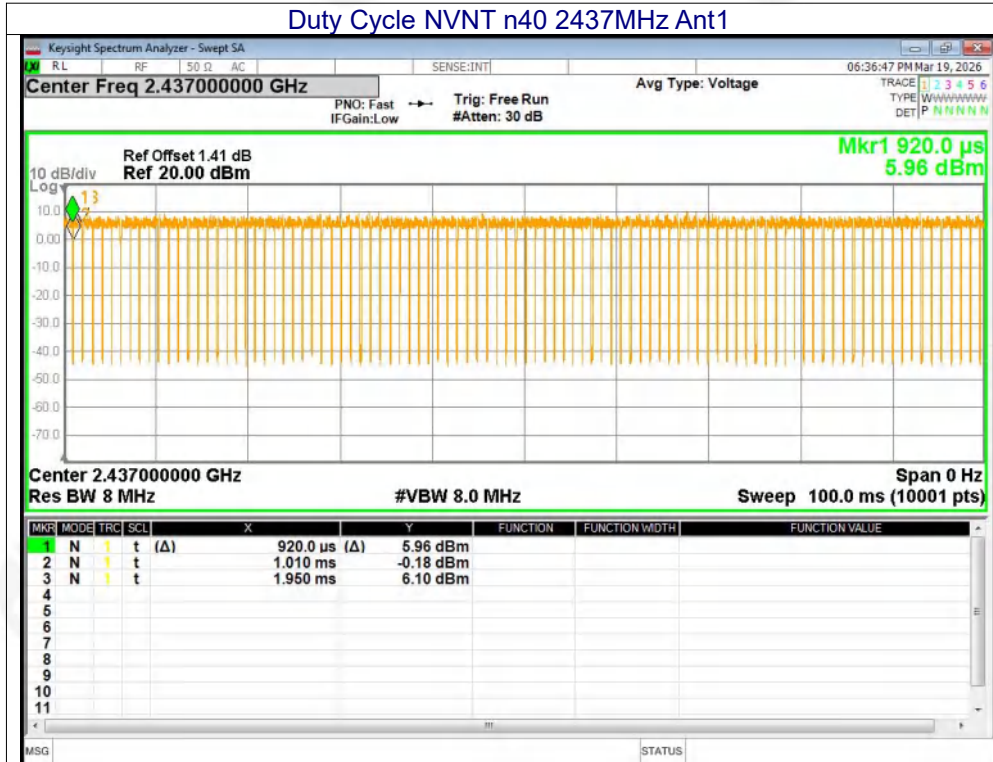


Duty Cycle NVNT n40 2422MHz Ant1

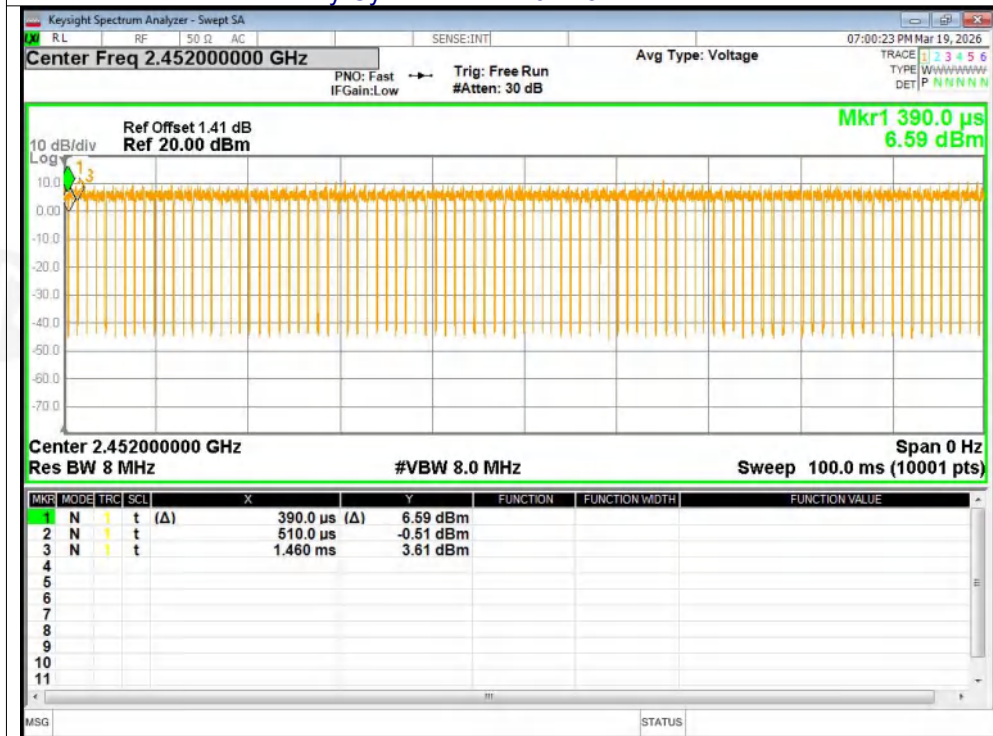




Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1





11. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi. A transmitter can only be sold or operated with antennas with which it was approved.	
EUT Antenna:	
The antenna is FPC Antenna, the best case gain of the antenna is 1.5dBi, reference to the appendix II for details	



12. TEST SETUP PHOTO

Reference to the appendix I for details.

13. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

***** END OF REPORT *****