FCC TEST REPORT
FCC ID:2BFO9-A6

Report Number.....:	**ZKT-260306L0262E**
Date of Test.....	Feb. 9, 2026 to Mar. 3, 2026
Date of issue.....:	Mar. 3, 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 Youzhuoping Technology Co., Ltd**
Address ..... :	Jinbolong Industrial Factory Building E305A, No.1 Huayun Road, Yucui Community, Longhua Street, Longhua District, Shenzhen City, Guangdong Province, China
Manufacturer's name .....:	**Shenzhen Youzhuoping Technology Co., Ltd**
Address ..... :	Jinbolong Industrial Factory Building E305A, No.1 Huayun Road, Yucui Community, Longhua Street, Longhua District, Shenzhen City, Guangdong Province, China
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.....:	**Sport action camera**
Trademark .....:	/
Model/Type reference..... :	A6+ A4+, A5+, A7+, A8+, A9+, AIRFLY, A11+, A12+
Ratings..... :	Input: DC 5 V 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-260306L0262E	Rev.01	Initial issue of report	Mar. 3, 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 ± 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 camber Radiated spurious emission(9KHz-30MHz)	4.5dB
2	3m camber 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℃

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Sport action camera
Model No.:	A6+
Model Different.:	A6+ 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 A6+ can represent the remaining models.
Serial No.:	N/A
Sample ID	ZKT-260306L0262
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: 3.53dBi
Power supply:	Input: DC 5 V or DC 3.7 V Powered by battery

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	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:

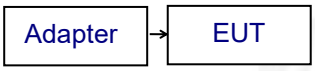
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

Test Software	COM7 -PuTTY
Power level setup	default

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

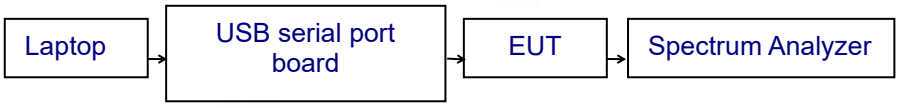
Conducted Emissions



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	Adapter	Xiaomi	MDY-08-EH	/	AE
E-2	USB serial port board	/	/	/	AE
E-3	Laptop	Lenovo (Beijing) Co., Ltd	ThinkPad E480	/	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-CON 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-1752	N/A	Sep. 25, 2025	Sep. 24, 2026
9	SHIELD BOX	TESCOM	TC-5970C	5970C015553	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-RFCB	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.

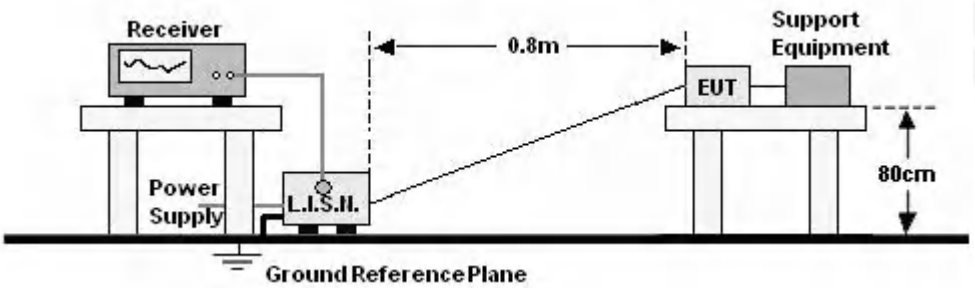
4.1.2 TEST PROCEDURE

a. 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.
b. 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.
c. 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.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. 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

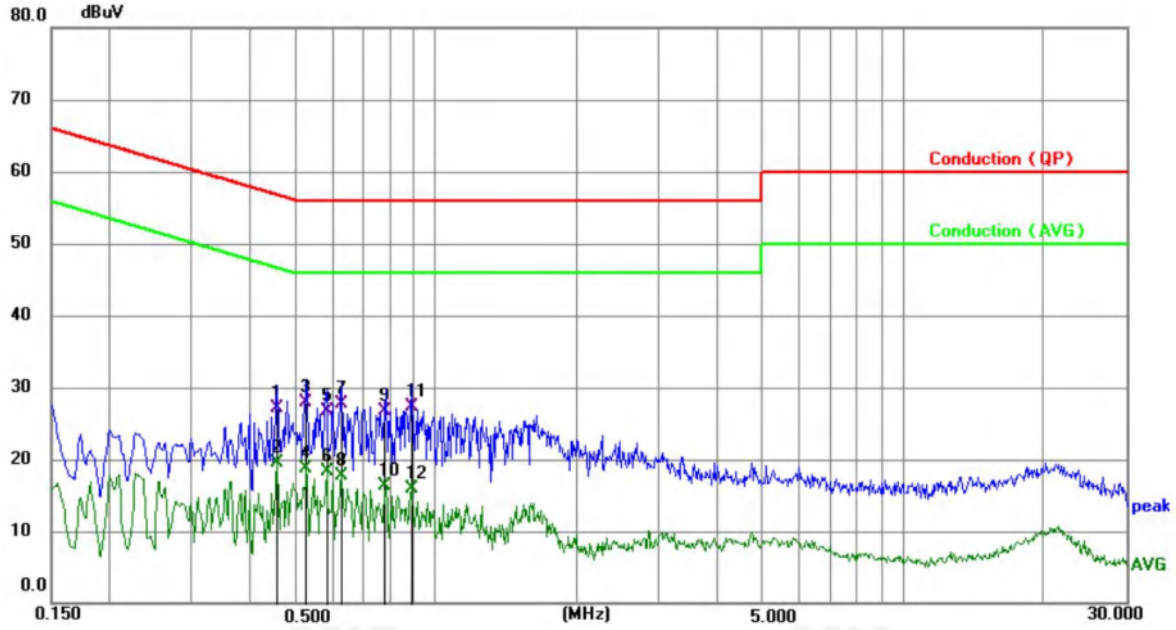


4.1.5 EUT OPERATING CONDITIONS

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.

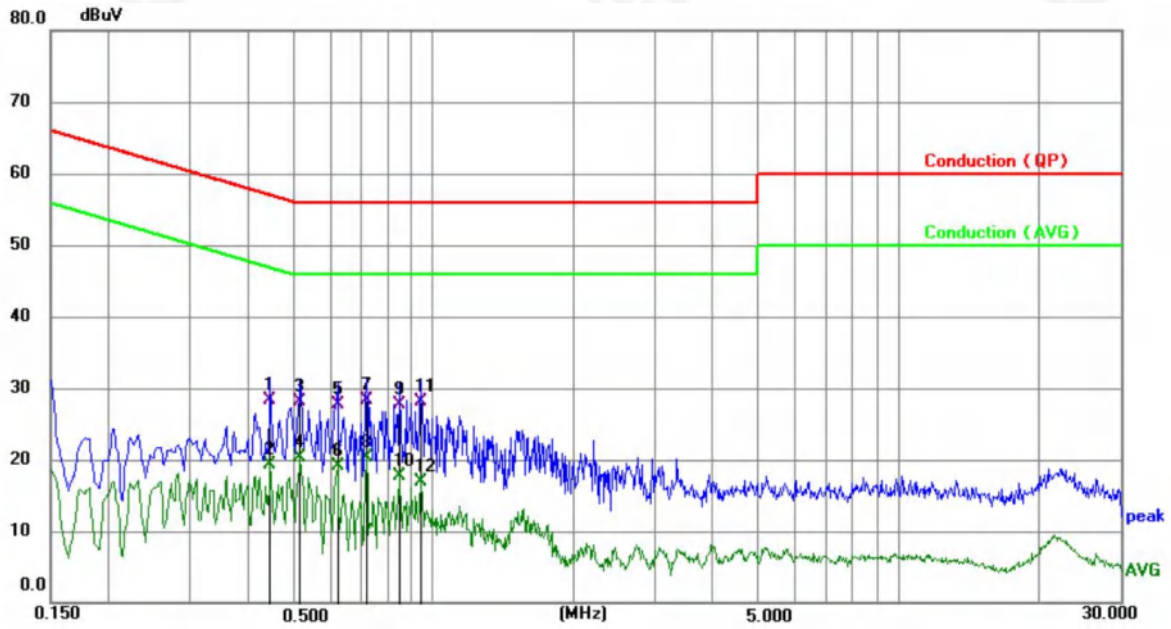
4.1.6 Test Result

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	0.4560	17.00	10.01	27.01	56.77	-29.76	QP	P	
2	0.4560	9.42	10.01	19.43	46.77	-27.34	AVG	P	
3	0.5265	17.98	10.02	28.00	56.00	-28.00	QP	P	
4 *	0.5265	8.78	10.02	18.80	46.00	-27.20	AVG	P	
5	0.5820	16.70	10.03	26.73	56.00	-29.27	QP	P	
6	0.5820	8.29	10.03	18.32	46.00	-27.68	AVG	P	
7	0.6270	17.67	10.03	27.70	56.00	-28.30	QP	P	
8	0.6270	7.67	10.03	17.70	46.00	-28.30	AVG	P	
9	0.7799	16.72	10.04	26.76	56.00	-29.24	QP	P	
10	0.7799	6.23	10.04	16.27	46.00	-29.73	AVG	P	
11	0.8880	17.27	10.05	27.32	56.00	-28.68	QP	P	
12	0.8880	5.80	10.05	15.85	46.00	-30.15	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	0.4425	18.36	10.00	28.36	57.01	-28.65	QP	P	
2	0.4425	9.33	10.00	19.33	47.01	-27.68	AVG	P	
3	0.5144	18.11	10.02	28.13	56.00	-27.87	QP	P	
4 *	0.5144	10.37	10.02	20.39	46.00	-25.61	AVG	P	
5	0.6225	17.70	10.03	27.73	56.00	-28.27	QP	P	
6	0.6225	9.09	10.03	19.12	46.00	-26.88	AVG	P	
7	0.7170	18.28	10.04	28.32	56.00	-27.68	QP	P	
8	0.7170	10.29	10.04	20.33	46.00	-25.67	AVG	P	
9	0.8475	17.75	10.05	27.80	56.00	-28.20	QP	P	
10	0.8475	7.69	10.05	17.74	46.00	-28.26	AVG	P	
11	0.9420	18.02	10.06	28.08	56.00	-27.92	QP	P	
12	0.9420	6.94	10.06	17.00	46.00	-29.00	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.Mesurement 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:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoiccamber. 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 avariable-height antenna tower.
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum valueof 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 toheights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1meter) 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 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.

Above 1GHz test procedure as below:

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

Note:

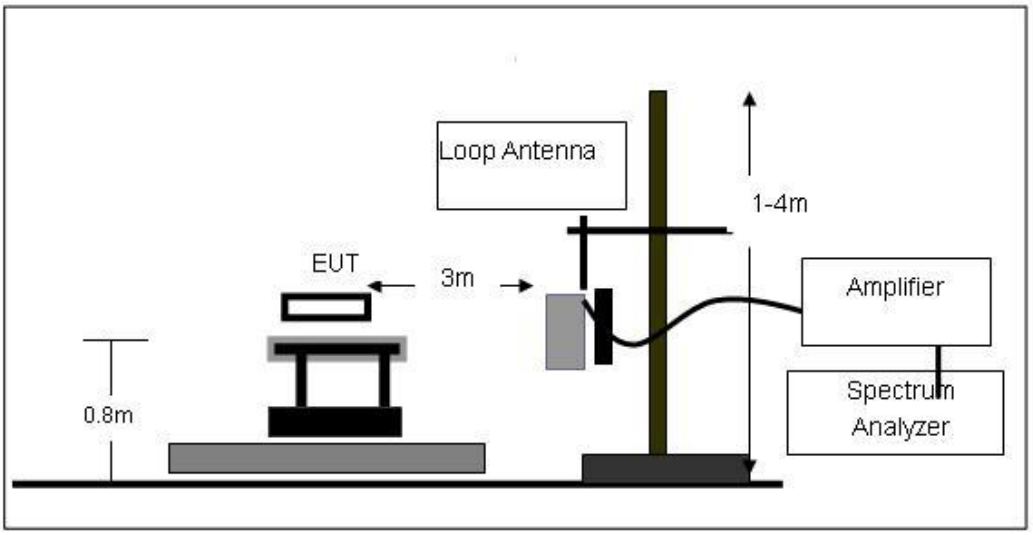
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

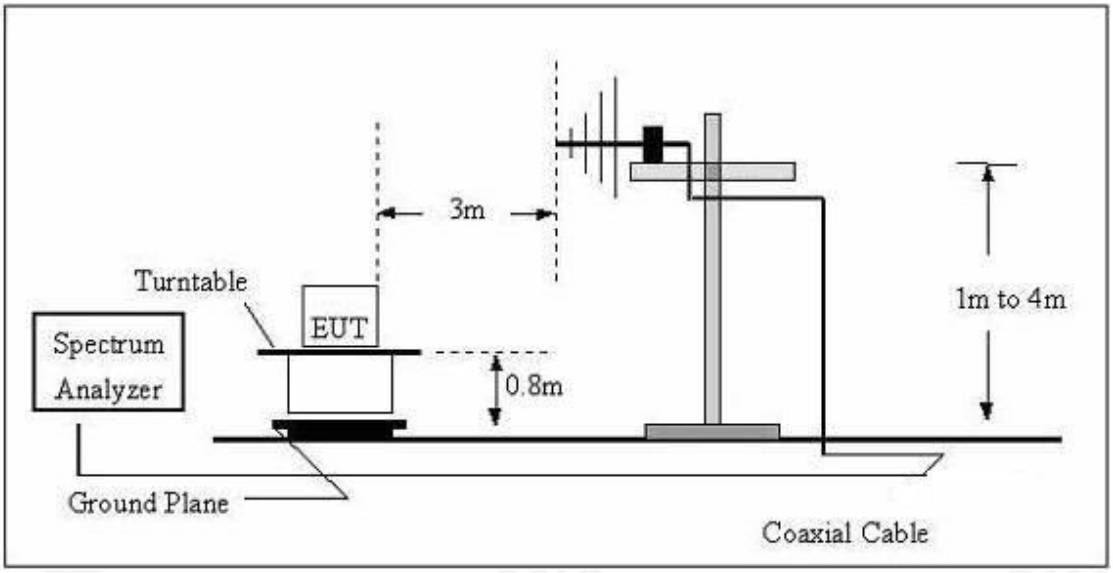
No deviation

4.2.4 TEST SETUP

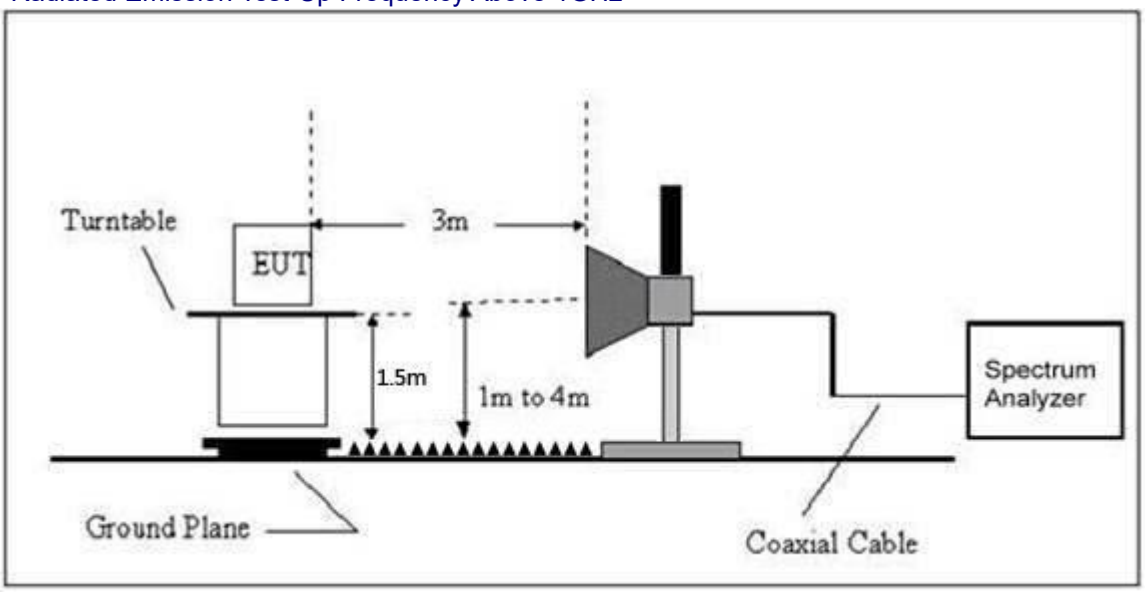
（A）Radiated Emission Test-Up Frequency Below 30MHz



（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.

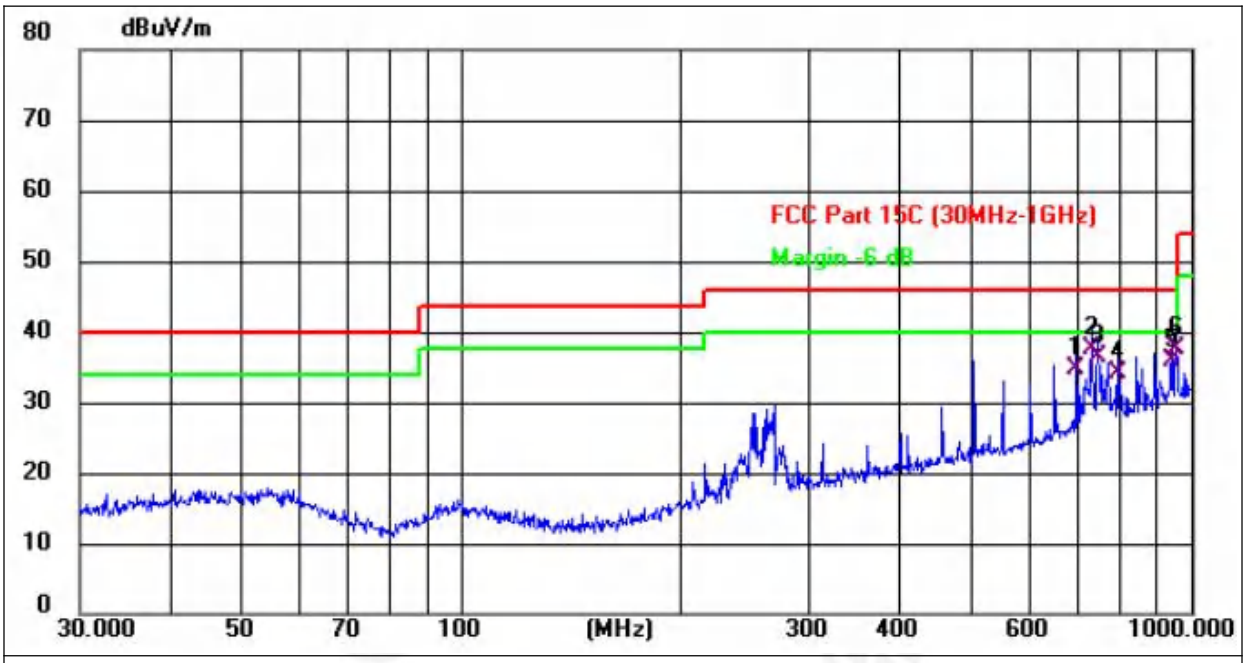
4.2.6 TEST RESULTS

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.

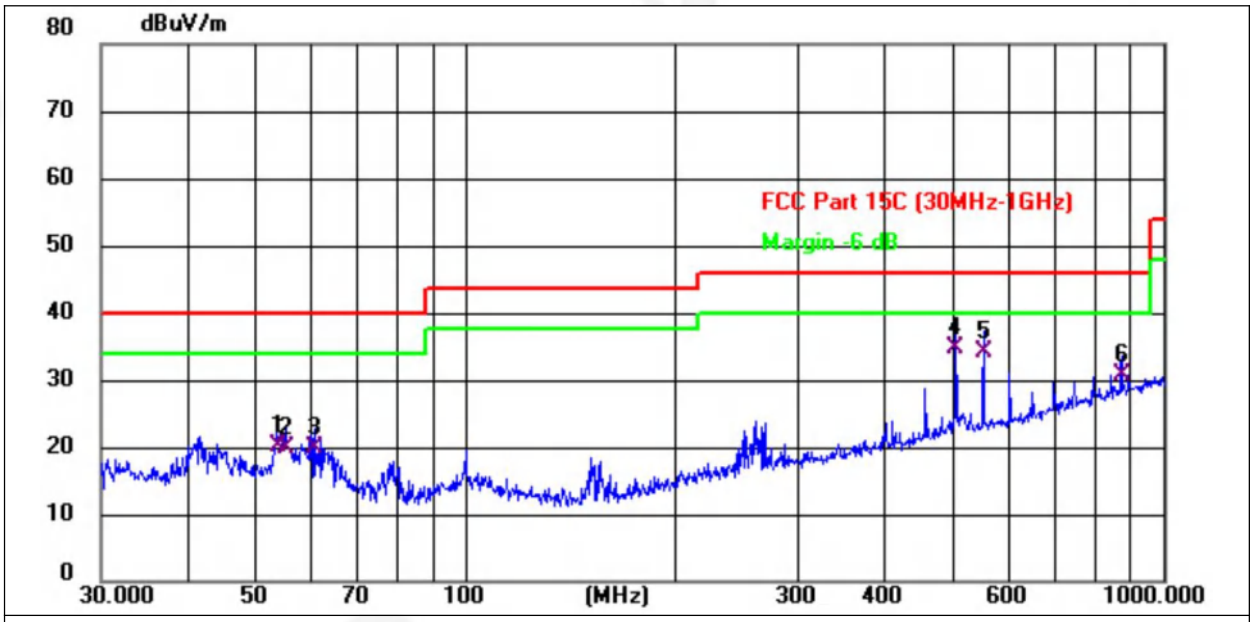
Between 30MHz – 1GHz

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



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F
1	696.8567	34.39	0.42	34.81	46.00	-11.19	QP	-	-	P
2 *	729.3582	36.80	0.90	37.70	46.00	-8.30	QP	-	-	P
3	744.8660	35.24	1.13	36.37	46.00	-9.63	QP	-	-	P
4	793.3960	32.27	1.83	34.10	46.00	-11.90	QP	-	-	P
5	938.8326	32.04	3.84	35.88	46.00	-10.12	QP	-	-	P
6	952.0937	33.69	3.97	37.66	46.00	-8.34	QP	-	-	P

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	Height (cm)	Azimuth (deg.)	P/F
1	53.8817	29.03	-8.80	20.23	40.00	-19.77	QP	-	-	P
2	55.2207	28.85	-8.94	19.91	40.00	-20.09	QP	-	-	P
3	60.7043	29.32	-9.58	19.74	40.00	-20.26	QP	-	-	P
4 *	504.7062	37.84	-3.26	34.58	46.00	-11.42	QP	-	-	P
5	552.8832	36.49	-2.32	34.17	46.00	-11.83	QP	-	-	P
6	872.1832	27.67	3.03	30.70	46.00	-15.30	QP	-	-	P

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 (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	55.75	30.55	5.77	24.66	55.63	74	-18.37	PK
V	4824.00	35.8	30.55	5.77	24.66	35.68	54	-18.32	AV
V	7236.00	56.16	30.33	6.32	24.55	56.7	74	-17.3	PK
V	7236.00	39.37	30.33	6.32	24.55	39.91	54	-14.09	AV
V	9648.00	55.97	30.85	7.45	24.69	57.26	74	-16.74	PK
V	9648.00	35.17	30.85	7.45	24.69	36.46	54	-17.54	AV
V	12060.00	55.97	31.02	8.99	25.57	59.51	74	-14.49	PK
V	12060.00	36.45	31.02	8.99	25.57	39.99	54	-14.01	AV
H	4824.00	56.91	30.55	5.77	24.66	56.79	74	-17.21	PK
H	4824.00	36.62	30.55	5.77	24.66	36.5	54	-17.5	AV
H	7236.00	58.31	30.33	6.32	24.55	58.85	74	-15.15	PK
H	7236.00	39.92	30.33	6.32	24.55	40.46	54	-13.54	AV
H	9648.00	59.89	30.85	7.45	24.69	61.18	74	-12.82	PK
H	9648.00	35.32	30.85	7.45	24.69	36.61	54	-17.39	AV
H	12060.00	58.55	31.02	8.99	25.57	62.09	74	-11.91	PK
H	12060.00	37.04	31.02	8.99	25.57	40.58	54	-13.42	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	57.58	30.55	5.77	24.66	57.46	74	-16.54	PK
V	4874.00	37.75	30.55	5.77	24.66	37.63	54	-16.37	AV
V	7311.00	57.96	30.33	6.32	24.55	58.5	74	-15.5	PK
V	7311.00	35.07	30.33	6.32	24.55	35.61	54	-18.39	AV
V	9748.00	57.76	30.85	7.45	24.69	59.05	74	-14.95	PK
V	9748.00	39.03	30.85	7.45	24.69	40.32	54	-13.68	AV
V	12185.00	59.68	31.02	8.99	25.57	63.22	74	-10.78	PK
V	12185.00	39.11	31.02	8.99	25.57	42.65	54	-11.35	AV
H	4874.00	58.65	30.55	5.77	24.66	58.53	74	-15.47	PK
H	4874.00	39.02	30.55	5.77	24.66	38.9	54	-15.1	AV
H	7311.00	59.92	30.33	6.32	24.55	60.46	74	-13.54	PK
H	7311.00	36.37	30.33	6.32	24.55	36.91	54	-17.09	AV
H	9748.00	55.67	30.85	7.45	24.69	56.96	74	-17.04	PK
H	9748.00	35.42	30.85	7.45	24.69	36.71	54	-17.29	AV
H	12185.00	55.7	31.02	8.99	25.57	59.24	74	-14.76	PK
H	12185.00	36.32	31.02	8.99	25.57	39.86	54	-14.14	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2462MHz									
V	4924.00	58.25	30.55	5.77	24.66	58.13	74	-15.87	PK
V	4924.00	37.48	30.55	5.77	24.66	37.36	54	-16.64	AV
V	7386.00	59.55	30.33	6.32	24.55	60.09	74	-13.91	PK
V	7386.00	37.62	30.33	6.32	24.55	38.16	54	-15.84	AV
V	9848.00	56.76	30.85	7.45	24.69	58.05	74	-15.95	PK
V	9848.00	37.11	30.85	7.45	24.69	38.4	54	-15.6	AV
V	12310.00	59.7	31.02	8.99	25.57	63.24	74	-10.76	PK
V	12310.00	36.46	31.02	8.99	25.57	40	54	-14	AV
H	4924.00	57.2	30.55	5.77	24.66	57.08	74	-16.92	PK
H	4924.00	37.2	30.55	5.77	24.66	37.08	54	-16.92	AV
H	7386.00	59.96	30.33	6.32	24.55	60.5	74	-13.5	PK
H	7386.00	38.46	30.33	6.32	24.55	39	54	-15	AV
H	9848.00	57.64	30.85	7.45	24.69	58.93	74	-15.07	PK
H	9848.00	35.35	30.85	7.45	24.69	36.64	54	-17.36	AV
H	12310.00	57.04	31.02	8.99	25.57	60.58	74	-13.42	PK
H	12310.00	37.86	31.02	8.99	25.57	41.4	54	-12.6	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 (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	56.82	30.55	5.77	24.66	56.7	74	-17.3	PK
V	4824.00	36.46	30.55	5.77	24.66	36.34	54	-17.66	AV
V	7236.00	57.9	30.33	6.32	24.55	58.44	74	-15.56	PK
V	7236.00	38.67	30.33	6.32	24.55	39.21	54	-14.79	AV
V	9648.00	55.66	30.85	7.45	24.69	56.95	74	-17.05	PK
V	9648.00	36.83	30.85	7.45	24.69	38.12	54	-15.88	AV
V	12060.00	56.79	31.02	8.99	25.57	60.33	74	-13.67	PK
V	12060.00	38.67	31.02	8.99	25.57	42.21	54	-11.79	AV
H	4824.00	56.9	30.55	5.77	24.66	56.78	74	-17.22	PK
H	4824.00	37.59	30.55	5.77	24.66	37.47	54	-16.53	AV
H	7236.00	55.41	30.33	6.32	24.55	55.95	74	-18.05	PK
H	7236.00	35.59	30.33	6.32	24.55	36.13	54	-17.87	AV
H	9648.00	57.26	30.85	7.45	24.69	58.55	74	-15.45	PK
H	9648.00	38.79	30.85	7.45	24.69	40.08	54	-13.92	AV
H	12060.00	56.46	31.02	8.99	25.57	60	74	-14	PK
H	12060.00	37.32	31.02	8.99	25.57	40.86	54	-13.14	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	58.06	30.55	5.77	24.66	57.94	74	-16.06	PK
V	4874.00	39.98	30.55	5.77	24.66	39.86	54	-14.14	AV
V	7311.00	57.4	30.33	6.32	24.55	57.94	74	-16.06	PK
V	7311.00	35.09	30.33	6.32	24.55	35.63	54	-18.37	AV
V	9748.00	59.9	30.85	7.45	24.69	61.19	74	-12.81	PK
V	9748.00	38.42	30.85	7.45	24.69	39.71	54	-14.29	AV
V	12185.00	58.71	31.02	8.99	25.57	62.25	74	-11.75	PK
V	12185.00	37.48	31.02	8.99	25.57	41.02	54	-12.98	AV
H	4874.00	58.89	30.55	5.77	24.66	58.77	74	-15.23	PK
H	4874.00	36.68	30.55	5.77	24.66	36.56	54	-17.44	AV
H	7311.00	57.23	30.33	6.32	24.55	57.77	74	-16.23	PK
H	7311.00	38.73	30.33	6.32	24.55	39.27	54	-14.73	AV
H	9748.00	58.33	30.85	7.45	24.69	59.62	74	-14.38	PK
H	9748.00	39.69	30.85	7.45	24.69	40.98	54	-13.02	AV
H	12185.00	58.14	31.02	8.99	25.57	61.68	74	-12.32	PK
H	12185.00	36.19	31.02	8.99	25.57	39.73	54	-14.27	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2462MHz									
V	4924.00	56.97	30.55	5.77	24.66	56.85	74	-17.15	PK
V	4924.00	36.54	30.55	5.77	24.66	36.42	54	-17.58	AV
V	7386.00	56.84	30.33	6.32	24.55	57.38	74	-16.62	PK
V	7386.00	36.81	30.33	6.32	24.55	37.35	54	-16.65	AV
V	9848.00	56.45	30.85	7.45	24.69	57.74	74	-16.26	PK
V	9848.00	36.08	30.85	7.45	24.69	37.37	54	-16.63	AV
V	12310.00	56.36	31.02	8.99	25.57	59.9	74	-14.1	PK
V	12310.00	35.91	31.02	8.99	25.57	39.45	54	-14.55	AV
H	4924.00	56.77	30.55	5.77	24.66	56.65	74	-17.35	PK
H	4924.00	37.42	30.55	5.77	24.66	37.3	54	-16.7	AV
H	7386.00	56.79	30.33	6.32	24.55	57.33	74	-16.67	PK
H	7386.00	35.98	30.33	6.32	24.55	36.52	54	-17.48	AV
H	9848.00	57.82	30.85	7.45	24.69	59.11	74	-14.89	PK
H	9848.00	37.18	30.85	7.45	24.69	38.47	54	-15.53	AV
H	12310.00	57.23	31.02	8.99	25.57	60.77	74	-13.23	PK
H	12310.00	36.29	31.02	8.99	25.57	39.83	54	-14.17	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 (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	56.33	30.55	5.77	24.66	56.21	74	-17.79	PK
V	4824.00	38.74	30.55	5.77	24.66	38.62	54	-15.38	AV
V	7236.00	57.37	30.33	6.32	24.55	57.91	74	-16.09	PK
V	7236.00	35.9	30.33	6.32	24.55	36.44	54	-17.56	AV
V	9648.00	58.88	30.85	7.45	24.69	60.17	74	-13.83	PK
V	9648.00	36.23	30.85	7.45	24.69	37.52	54	-16.48	AV
V	12060.00	59.72	31.02	8.99	25.57	63.26	74	-10.74	PK
V	12060.00	37	31.02	8.99	25.57	40.54	54	-13.46	AV
H	4824.00	58.7	30.55	5.77	24.66	58.58	74	-15.42	PK
H	4824.00	37.22	30.55	5.77	24.66	37.1	54	-16.9	AV
H	7236.00	56.3	30.33	6.32	24.55	56.84	74	-17.16	PK
H	7236.00	39.6	30.33	6.32	24.55	40.14	54	-13.86	AV
H	9648.00	59.85	30.85	7.45	24.69	61.14	74	-12.86	PK
H	9648.00	35.53	30.85	7.45	24.69	36.82	54	-17.18	AV
H	12060.00	57.75	31.02	8.99	25.57	61.29	74	-12.71	PK
H	12060.00	35.9	31.02	8.99	25.57	39.44	54	-14.56	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	56.89	30.55	5.77	24.66	56.77	74	-17.23	PK
V	4874.00	39.24	30.55	5.77	24.66	39.12	54	-14.88	AV
V	7311.00	57.42	30.33	6.32	24.55	57.96	74	-16.04	PK
V	7311.00	37.87	30.33	6.32	24.55	38.41	54	-15.59	AV
V	9748.00	58.49	30.85	7.45	24.69	59.78	74	-14.22	PK
V	9748.00	39.31	30.85	7.45	24.69	40.6	54	-13.4	AV
V	12185.00	58.77	31.02	8.99	25.57	62.31	74	-11.69	PK
V	12185.00	37.53	31.02	8.99	25.57	41.07	54	-12.93	AV
H	4874.00	58.84	30.55	5.77	24.66	58.72	74	-15.28	PK
H	4874.00	36.81	30.55	5.77	24.66	36.69	54	-17.31	AV
H	7311.00	60	30.33	6.32	24.55	60.54	74	-13.46	PK
H	7311.00	37.32	30.33	6.32	24.55	37.86	54	-16.14	AV
H	9748.00	57.04	30.85	7.45	24.69	58.33	74	-15.67	PK
H	9748.00	35.82	30.85	7.45	24.69	37.11	54	-16.89	AV
H	12185.00	57.84	31.02	8.99	25.57	61.38	74	-12.62	PK
H	12185.00	36.31	31.02	8.99	25.57	39.85	54	-14.15	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2462MHz									
V	4924.00	57.66	30.55	5.77	24.66	57.54	74	-16.46	PK
V	4924.00	36.95	30.55	5.77	24.66	36.83	54	-17.17	AV
V	7386.00	55.73	30.33	6.32	24.55	56.27	74	-17.73	PK
V	7386.00	36.91	30.33	6.32	24.55	37.45	54	-16.55	AV
V	9848.00	59.99	30.85	7.45	24.69	61.28	74	-12.72	PK
V	9848.00	36.71	30.85	7.45	24.69	38	54	-16	AV
V	12310.00	55.02	31.02	8.99	25.57	58.56	74	-15.44	PK
V	12310.00	37.1	31.02	8.99	25.57	40.64	54	-13.36	AV
H	4924.00	59.01	30.55	5.77	24.66	58.89	74	-15.11	PK
H	4924.00	39.59	30.55	5.77	24.66	39.47	54	-14.53	AV
H	7386.00	58.47	30.33	6.32	24.55	59.01	74	-14.99	PK
H	7386.00	37.51	30.33	6.32	24.55	38.05	54	-15.95	AV
H	9848.00	58.01	30.85	7.45	24.69	59.3	74	-14.7	PK
H	9848.00	37.99	30.85	7.45	24.69	39.28	54	-14.72	AV
H	12310.00	57.73	31.02	8.99	25.57	61.27	74	-12.73	PK
H	12310.00	36.68	31.02	8.99	25.57	40.22	54	-13.78	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 (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2422MHz									
V	4844	58.39	30.55	5.77	24.66	58.27	74	-15.73	PK
V	4844	37.94	30.55	5.77	24.66	37.82	54	-16.18	AV
V	7266	55.51	30.33	6.32	24.55	56.05	74	-17.95	PK
V	7266	38.68	30.33	6.32	24.55	39.22	54	-14.78	AV
V	9688	59.63	30.85	7.45	24.69	60.92	74	-13.08	PK
V	9688	36.24	30.85	7.45	24.69	37.53	54	-16.47	AV
V	12110	59.56	31.02	8.99	25.57	63.1	74	-10.9	PK
V	12110	35.81	31.02	8.99	25.57	39.35	54	-14.65	AV
H	4824.00	57.01	30.55	5.77	24.66	56.89	74	-17.11	PK
H	4824.00	38.56	30.55	5.77	24.66	38.44	54	-15.56	AV
H	7236.00	55.35	30.33	6.32	24.55	55.89	74	-18.11	PK
H	7236.00	35.91	30.33	6.32	24.55	36.45	54	-17.55	AV
H	9648.00	55.56	30.85	7.45	24.69	56.85	74	-17.15	PK
H	9648.00	35.17	30.85	7.45	24.69	36.46	54	-17.54	AV
H	12060.00	58.57	31.02	8.99	25.57	62.11	74	-11.89	PK
H	12060.00	35.41	31.02	8.99	25.57	38.95	54	-15.05	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	58.28	30.55	5.77	24.66	58.16	74	-15.84	PK
V	4874.00	36.6	30.55	5.77	24.66	36.48	54	-17.52	AV
V	7311.00	55.02	30.33	6.32	24.55	55.56	74	-18.44	PK
V	7311.00	37.42	30.33	6.32	24.55	37.96	54	-16.04	AV
V	9748.00	59.82	30.85	7.45	24.69	61.11	74	-12.89	PK
V	9748.00	36.58	30.85	7.45	24.69	37.87	54	-16.13	AV
V	12185.00	59.62	31.02	8.99	25.57	63.16	74	-10.84	PK
V	12185.00	39.68	31.02	8.99	25.57	43.22	54	-10.78	AV
H	4874.00	59.76	30.55	5.77	24.66	59.64	74	-14.36	PK
H	4874.00	38.59	30.55	5.77	24.66	38.47	54	-15.53	AV
H	7311.00	59.19	30.33	6.32	24.55	59.73	74	-14.27	PK
H	7311.00	36.96	30.33	6.32	24.55	37.5	54	-16.5	AV
H	9748.00	58.59	30.85	7.45	24.69	59.88	74	-14.12	PK
H	9748.00	38.27	30.85	7.45	24.69	39.56	54	-14.44	AV
H	12185.00	58.46	31.02	8.99	25.57	62	74	-12	PK
H	12185.00	35.06	31.02	8.99	25.57	38.6	54	-15.4	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2452MHz									
V	4904.00	57.83	30.55	5.77	24.66	57.71	74	-16.29	PK
V	4904.00	37.23	30.55	5.77	24.66	37.11	54	-16.89	AV
V	7356.00	58.34	30.33	6.32	24.55	58.88	74	-15.12	PK
V	7356.00	35.84	30.33	6.32	24.55	36.38	54	-17.62	AV
V	9808.00	55.64	30.85	7.45	24.69	56.93	74	-17.07	PK
V	9808.00	38.74	30.85	7.45	24.69	40.03	54	-13.97	AV
V	12260.00	57.66	31.02	8.99	25.57	61.2	74	-12.8	PK
V	12260.00	37.39	31.02	8.99	25.57	40.93	54	-13.07	AV
H	4904.00	57.06	30.55	5.77	24.66	56.94	74	-17.06	PK
H	4904.00	39.77	30.55	5.77	24.66	39.65	54	-14.35	AV
H	7356.00	59.69	30.33	6.32	24.55	60.23	74	-13.77	PK
H	7356.00	35.62	30.33	6.32	24.55	36.16	54	-17.84	AV
H	9808.00	59.97	30.85	7.45	24.69	61.26	74	-12.74	PK
H	9808.00	38.74	30.85	7.45	24.69	40.03	54	-13.97	AV
H	12260.00	56.95	31.02	8.99	25.57	60.49	74	-13.51	PK
H	12260.00	36.74	31.02	8.99	25.57	40.28	54	-13.72	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 EMISSIONMEASUREMENT

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 1GHz	Peak	1MHz	3MHz	Peak
	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:

a. 1. 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 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.

g. Test the EUT in the lowest channel,the Highest channel

Note:

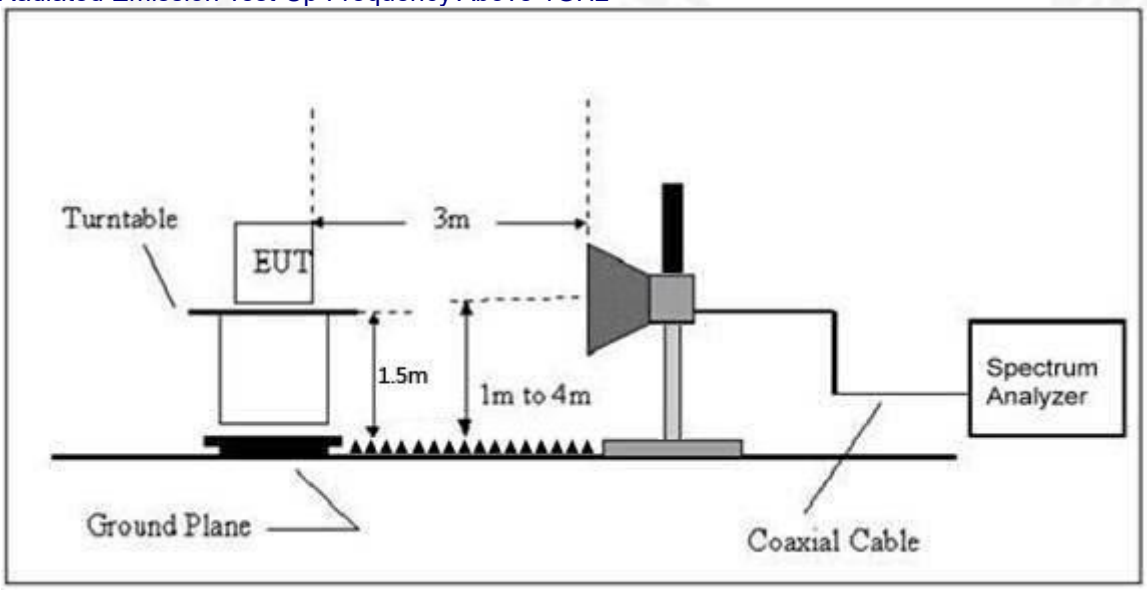
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

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)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
802.11b	Low Channel 2412MHz										
	H	2390.00	62.89	30.22	4.85	23.98	61.50	74.00	-12.50	PK	PASS
	H	2390.00	47.72	30.22	4.85	23.98	46.33	54.00	-7.67	AV	PASS
	H	2400.00	61.51	30.22	4.85	23.98	60.12	74.00	-13.88	PK	PASS
	H	2400.00	47.80	30.22	4.85	23.98	46.41	54.00	-7.59	AV	PASS
	V	2390.00	62.21	30.22	4.85	23.98	60.82	74.00	-13.18	PK	PASS
	V	2390.00	48.26	30.22	4.85	23.98	46.87	54.00	-7.13	AV	PASS
	V	2400.00	61.04	30.22	4.85	23.98	59.65	74.00	-14.35	PK	PASS
	V	2400.00	46.36	30.22	4.85	23.98	44.97	54.00	-9.03	AV	PASS
	High Channel 2462MHz										
	H	2483.50	62.80	30.22	4.85	23.98	61.41	74.00	-12.59	PK	PASS
	H	2483.50	46.30	30.22	4.85	23.98	44.91	54.00	-9.09	AV	PASS
	H	2500.00	59.98	30.22	4.85	23.98	58.59	74.00	-15.41	PK	PASS
	H	2500.00	47.95	30.22	4.85	23.98	46.56	54.00	-7.44	AV	PASS
	V	2483.50	59.25	30.22	4.85	23.98	57.86	74.00	-16.14	PK	PASS
	V	2483.50	48.22	30.22	4.85	23.98	46.83	54.00	-7.17	AV	PASS
	V	2500.00	61.55	30.22	4.85	23.98	60.16	74.00	-13.84	PK	PASS
	V	2500.00	47.94	30.22	4.85	23.98	46.55	54.00	-7.45	AV	PASS
802.11g	Low Channel 2412MHz										
	H	2390.00	59.31	30.22	4.85	23.98	57.92	74.00	-16.08	PK	PASS
	H	2390.00	47.07	30.22	4.85	23.98	45.68	54.00	-8.32	AV	PASS
	H	2400.00	59.12	30.22	4.85	23.98	57.73	74.00	-16.27	PK	PASS
	H	2400.00	46.59	30.22	4.85	23.98	45.20	54.00	-8.80	AV	PASS
	V	2390.00	62.70	30.22	4.85	23.98	61.31	74.00	-12.69	PK	PASS
	V	2390.00	47.05	30.22	4.85	23.98	45.66	54.00	-8.34	AV	PASS
	V	2400.00	59.88	30.22	4.85	23.98	58.49	74.00	-15.51	PK	PASS
	V	2400.00	48.42	30.22	4.85	23.98	47.03	54.00	-6.97	AV	PASS
	High Channel 2462MHz										
	H	2483.50	60.05	30.22	4.85	23.98	58.66	74.00	-15.34	PK	PASS
	H	2483.50	47.04	30.22	4.85	23.98	45.65	54.00	-8.35	AV	PASS
	H	2500.00	62.86	30.22	4.85	23.98	61.47	74.00	-12.53	PK	PASS
	H	2500.00	46.00	30.22	4.85	23.98	44.61	54.00	-9.39	AV	PASS
	V	2483.50	62.19	30.22	4.85	23.98	60.80	74.00	-13.20	PK	PASS
	V	2483.50	48.36	30.22	4.85	23.98	46.97	54.00	-7.03	AV	PASS
	V	2500.00	61.53	30.22	4.85	23.98	60.14	74.00	-13.86	PK	PASS
	V	2500.00	46.71	30.22	4.85	23.98	45.32	54.00	-8.68	AV	PASS
802.11n20	Low Channel 2412MHz										
	H	2390.00	60.73	30.22	4.85	23.98	59.34	74.00	-14.66	PK	PASS
	H	2390.00	46.96	30.22	4.85	23.98	45.57	54.00	-8.43	AV	PASS
	H	2400.00	61.97	30.22	4.85	23.98	60.58	74.00	-13.42	PK	PASS
	H	2400.00	47.53	30.22	4.85	23.98	46.14	54.00	-7.86	AV	PASS
	V	2390.00	61.70	30.22	4.85	23.98	60.31	74.00	-13.69	PK	PASS
	V	2390.00	47.40	30.22	4.85	23.98	46.01	54.00	-7.99	AV	PASS
	V	2400.00	61.39	30.22	4.85	23.98	60.00	74.00	-14.00	PK	PASS
	V	2400.00	48.10	30.22	4.85	23.98	46.71	54.00	-7.29	AV	PASS
	High Channel 2462MHz										
	H	2483.50	62.91	30.22	4.85	23.98	61.52	74.00	-12.48	PK	PASS
	H	2483.50	47.44	30.22	4.85	23.98	46.05	54.00	-7.95	AV	PASS
	H	2500.00	61.66	30.22	4.85	23.98	60.27	74.00	-13.73	PK	PASS
	H	2500.00	46.47	30.22	4.85	23.98	45.08	54.00	-8.92	AV	PASS
	V	2483.50	62.96	30.22	4.85	23.98	61.57	74.00	-12.43	PK	PASS
	V	2483.50	46.74	30.22	4.85	23.98	45.35	54.00	-8.65	AV	PASS

	V	2500.00	60.53	30.22	4.85	23.98	59.14	74.00	-14.86	PK	PASS
	V	2500.00	48.94	30.22	4.85	23.98	47.55	54.00	-6.45	AV	PASS
802.11n40	Low Channel 2422MHz										
	H	2390.00	60.66	30.22	4.85	23.98	59.27	74.00	-14.73	PK	PASS
	H	2390.00	47.66	30.22	4.85	23.98	46.27	54.00	-7.73	AV	PASS
	H	2400.00	61.72	30.22	4.85	23.98	60.33	74.00	-13.67	PK	PASS
	H	2400.00	47.83	30.22	4.85	23.98	46.44	54.00	-7.56	AV	PASS
	V	2390.00	59.76	30.22	4.85	23.98	58.37	74.00	-15.63	PK	PASS
	V	2390.00	46.89	30.22	4.85	23.98	45.50	54.00	-8.50	AV	PASS
	V	2400.00	59.71	30.22	4.85	23.98	58.32	74.00	-15.68	PK	PASS
	V	2400.00	48.93	30.22	4.85	23.98	47.54	54.00	-6.46	AV	PASS
	High Channel 2452MHz										
	H	2483.50	60.64	30.22	4.85	23.98	59.25	74.00	-14.75	PK	PASS
	H	2483.50	47.52	30.22	4.85	23.98	46.13	54.00	-7.87	AV	PASS
	H	2500.00	59.25	30.22	4.85	23.98	57.86	74.00	-16.14	PK	PASS
	H	2500.00	48.43	30.22	4.85	23.98	47.04	54.00	-6.96	AV	PASS
	V	2483.50	59.95	30.22	4.85	23.98	58.56	74.00	-15.44	PK	PASS
	V	2483.50	46.82	30.22	4.85	23.98	45.43	54.00	-8.57	AV	PASS
	V	2500.00	60.35	30.22	4.85	23.98	58.96	74.00	-15.04	PK	PASS
	V	2500.00	46.80	30.22	4.85	23.98	45.41	54.00	-8.59	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 kHz ≤ RBW ≤ 100 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.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP

6.5 EUT OPERATION CONDITIONS

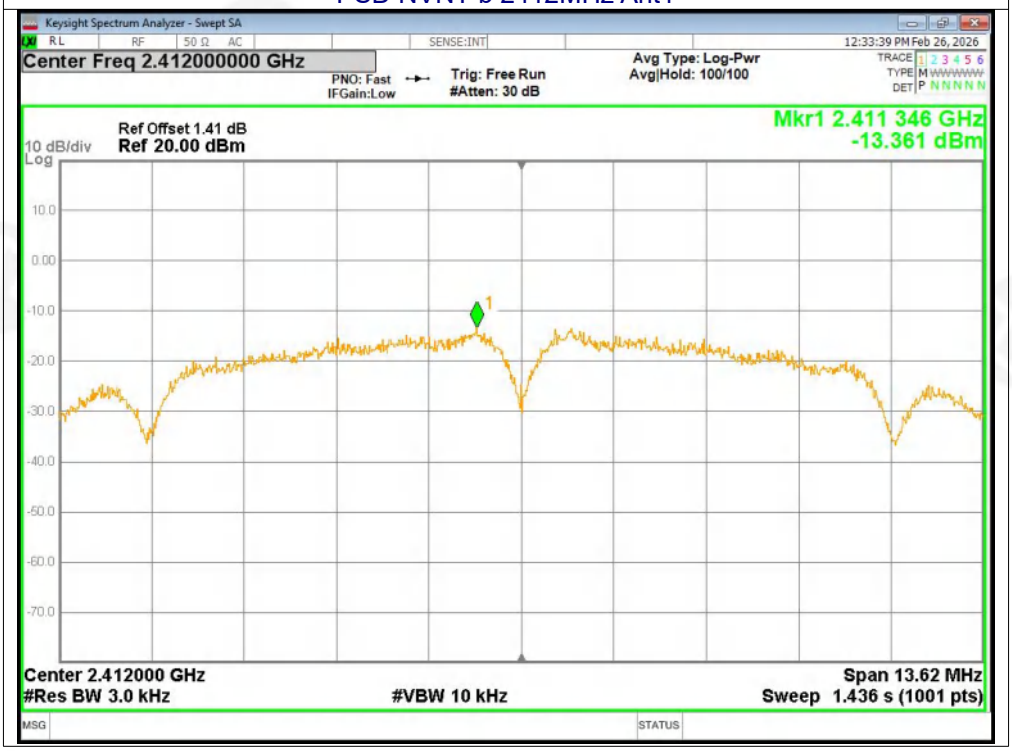
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULT

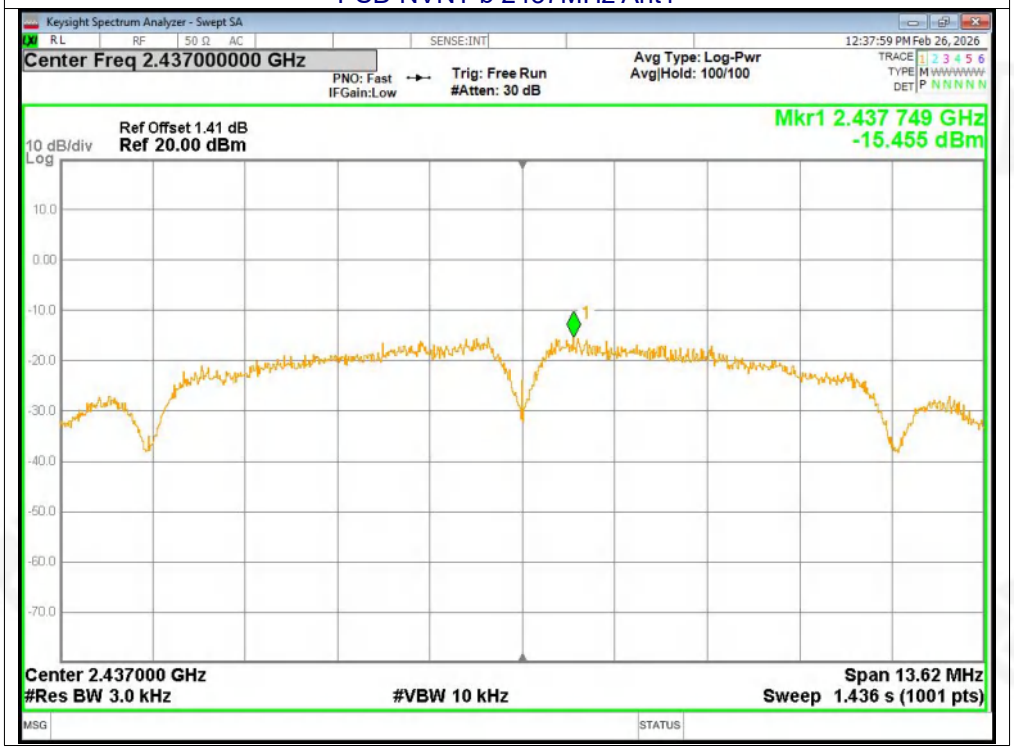
Temperature :	24.2℃	Relative Humidity :	53.6%
Pressure :	101.4kPa	Test Voltage :	DC 3.7 V
Test Mode :	TX b Mode		

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-13.36	8	PASS
2437 MHz	-15.46	8	PASS
2462 MHz	-16.25	8	PASS

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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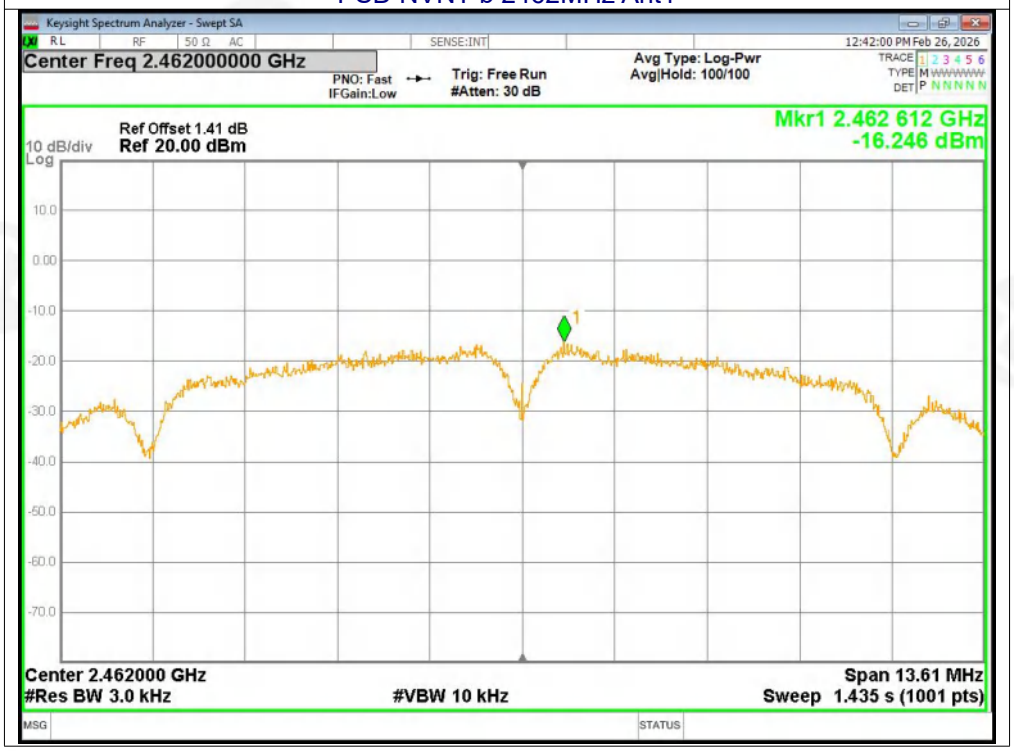
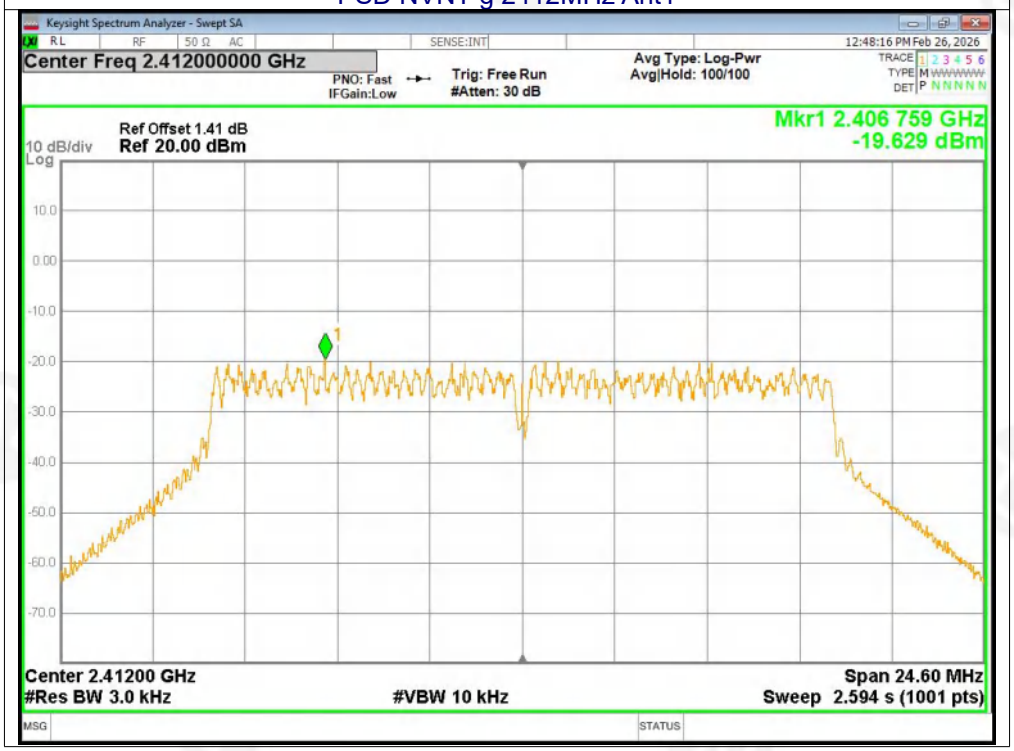


Temperature :	24.2℃	Relative Humidity :	53.6%
Pressure :	101.4kPa	Test Voltage :	DC 3.7 V
Test Mode :	TX g Mode		

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-19.63	8	PASS
2437 MHz	-17.65	8	PASS
2462 MHz	-19.55	8	PASS

PSD NVNT g 2412MHz Ant1



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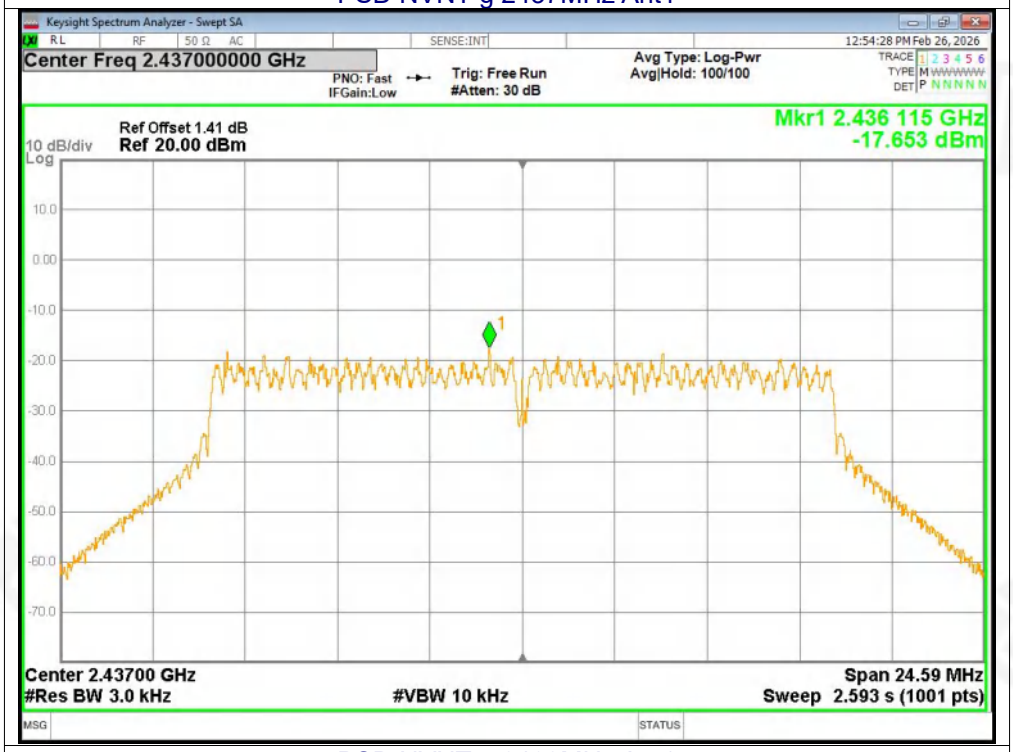

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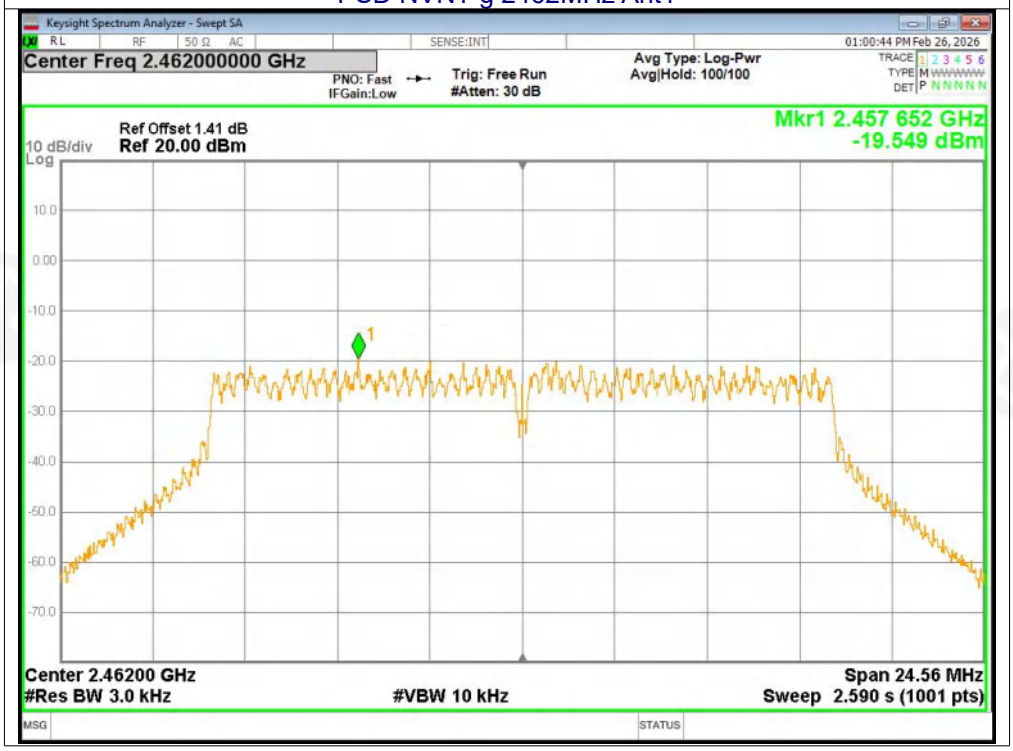
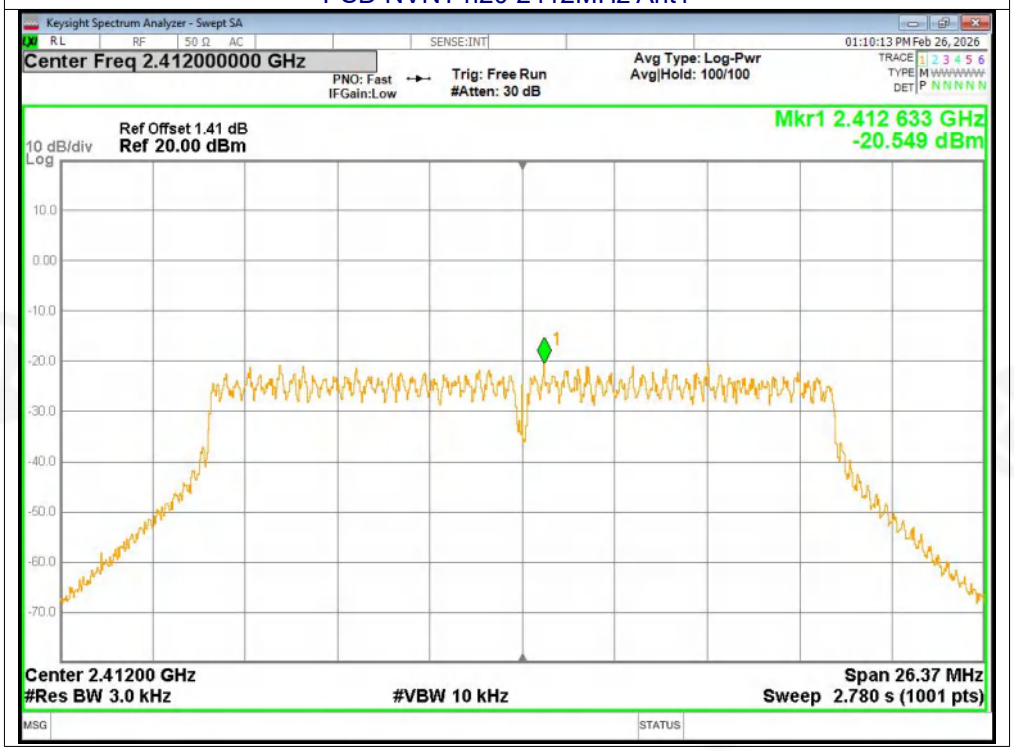


Temperature :	24.2℃	Relative Humidity :	53.6%
Pressure :	101.4kPa	Test Voltage :	DC 3.7 V
Test Mode :	TX n Mode(20M)		

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-20.55	8	PASS
2437 MHz	-19.6	8	PASS
2462 MHz	-20.54	8	PASS

PSD NVNT n20 2412MHz Ant1



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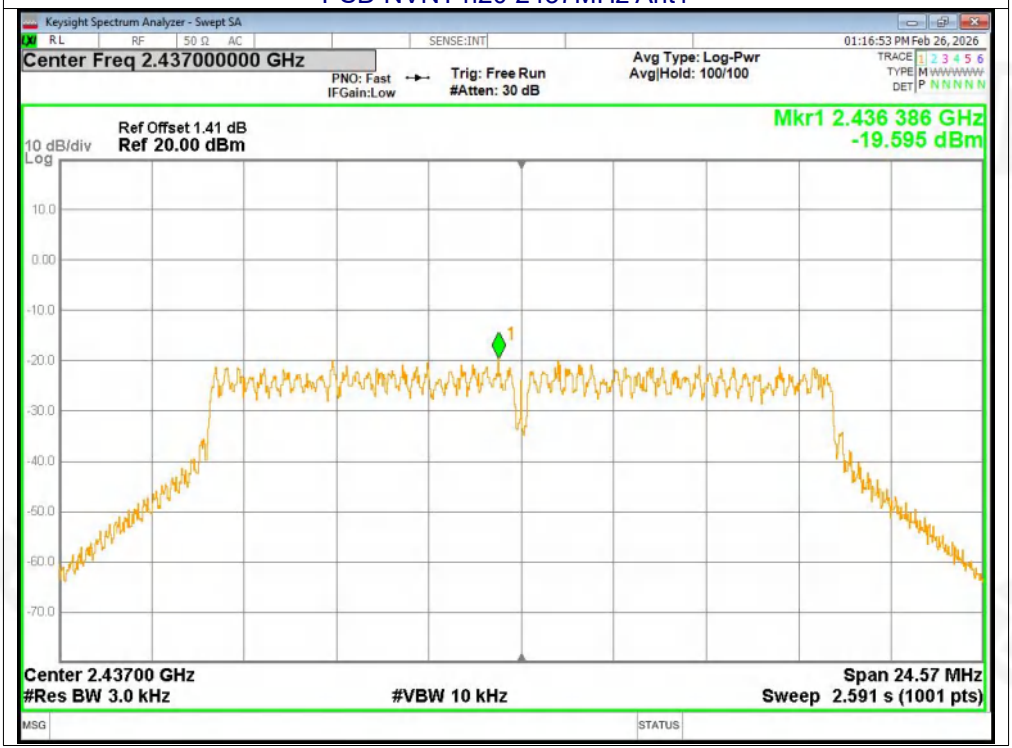
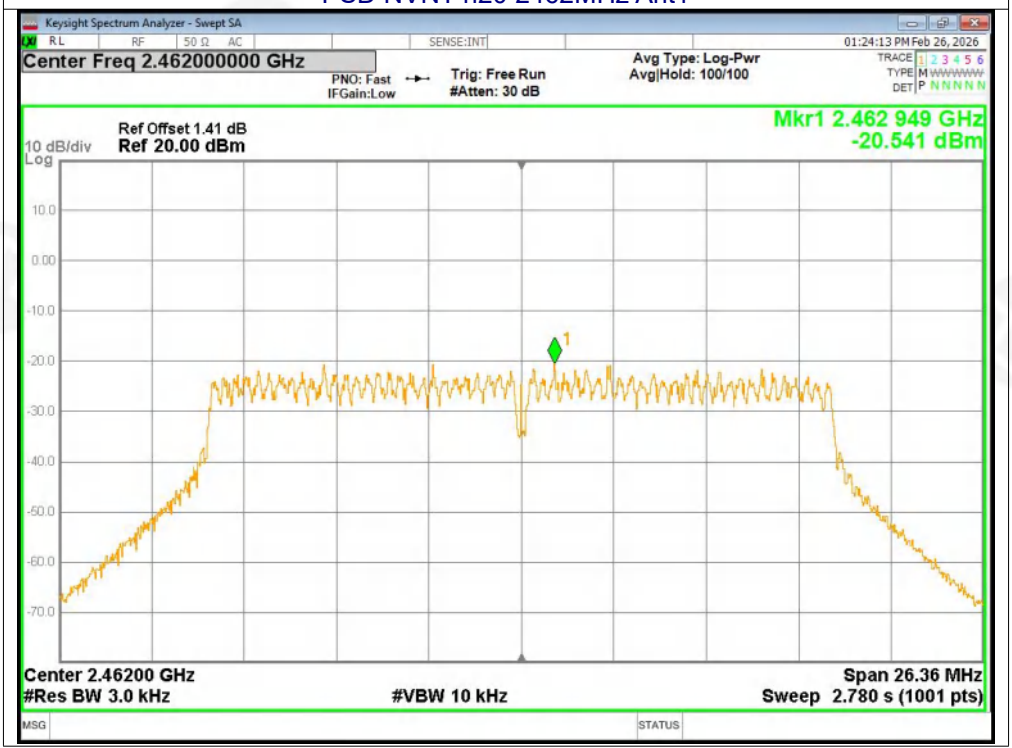


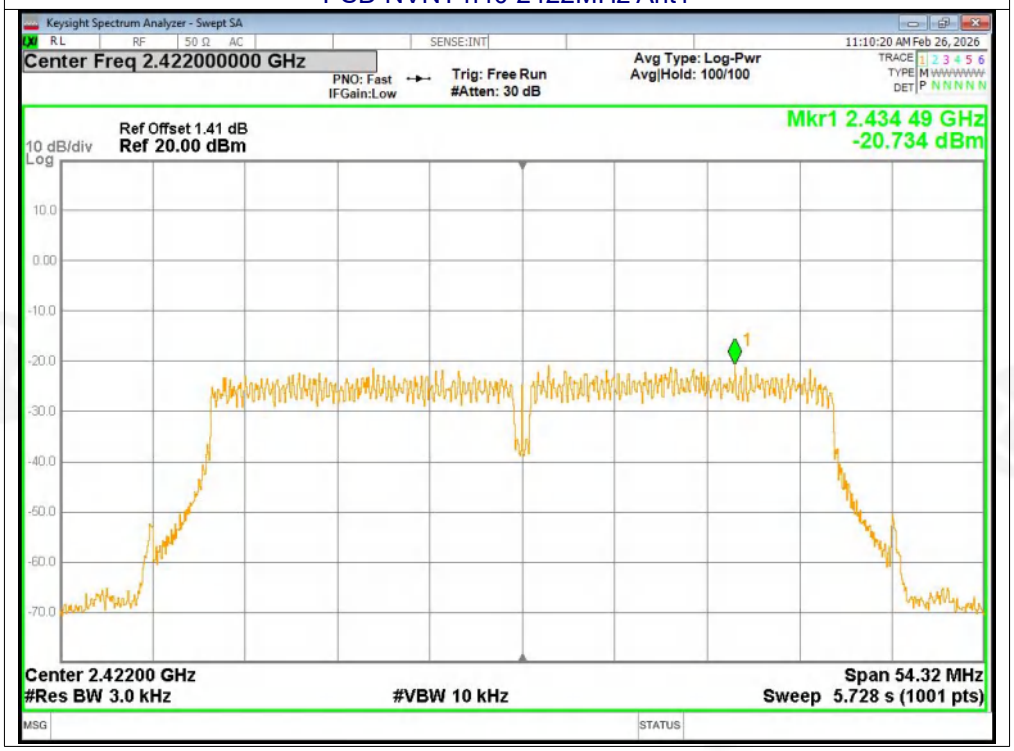
PSD NVNT n20 2462MHz Ant1



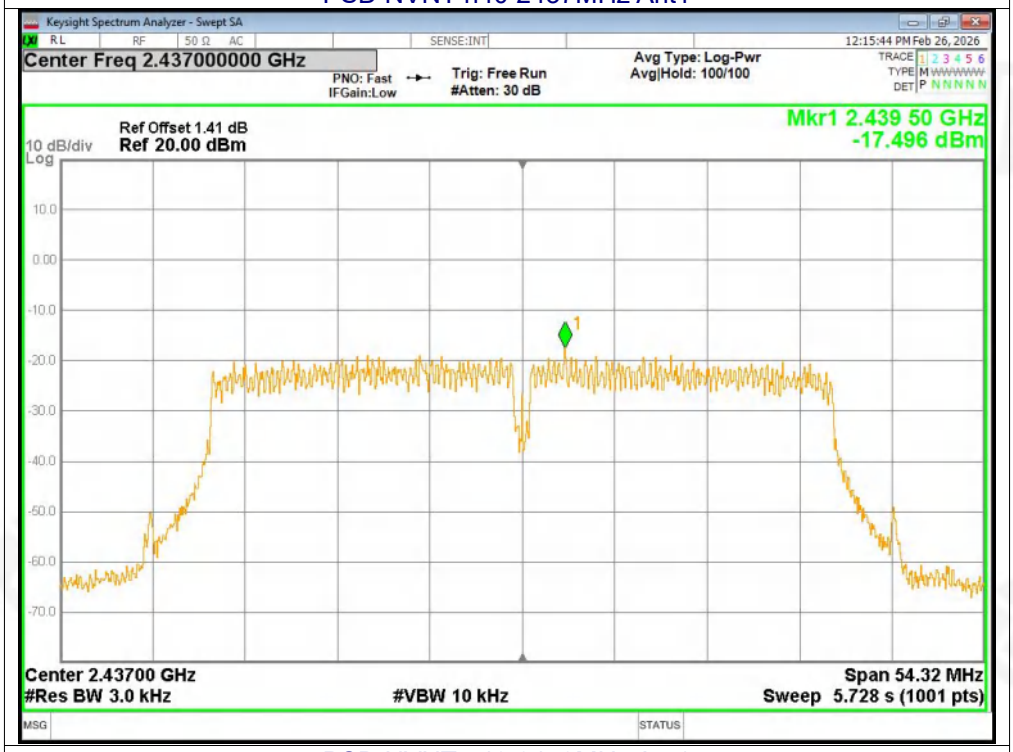
Temperature :	24.2℃	Relative Humidity :	53.6%
Pressure :	101.4kPa	Test Voltage :	DC 3.7 V
Test Mode :	TX n Mode(40M)		

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422 MHz	-20.73	8	PASS
2437 MHz	-17.5	8	PASS
2452 MHz	-20.91	8	PASS

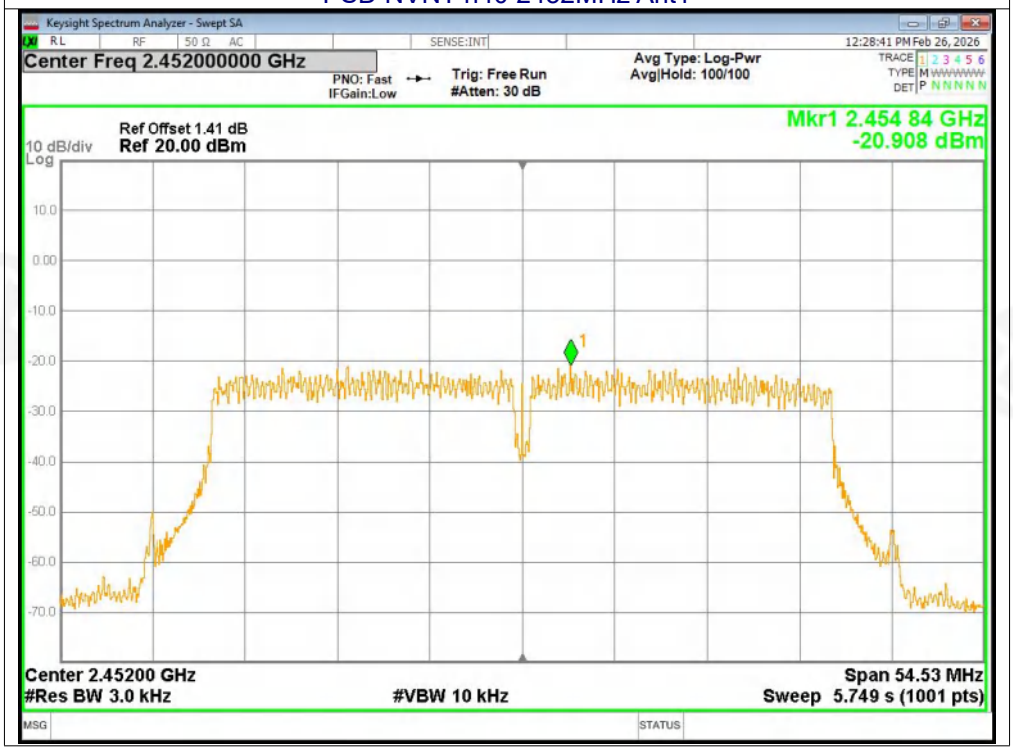
PSD NVNT n40 2422MHz Ant1



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	>= 500KHz (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) ≥ 3 xRBW.
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 :	DC 3.7 V
Test Mode :	TX 802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40) Mode		

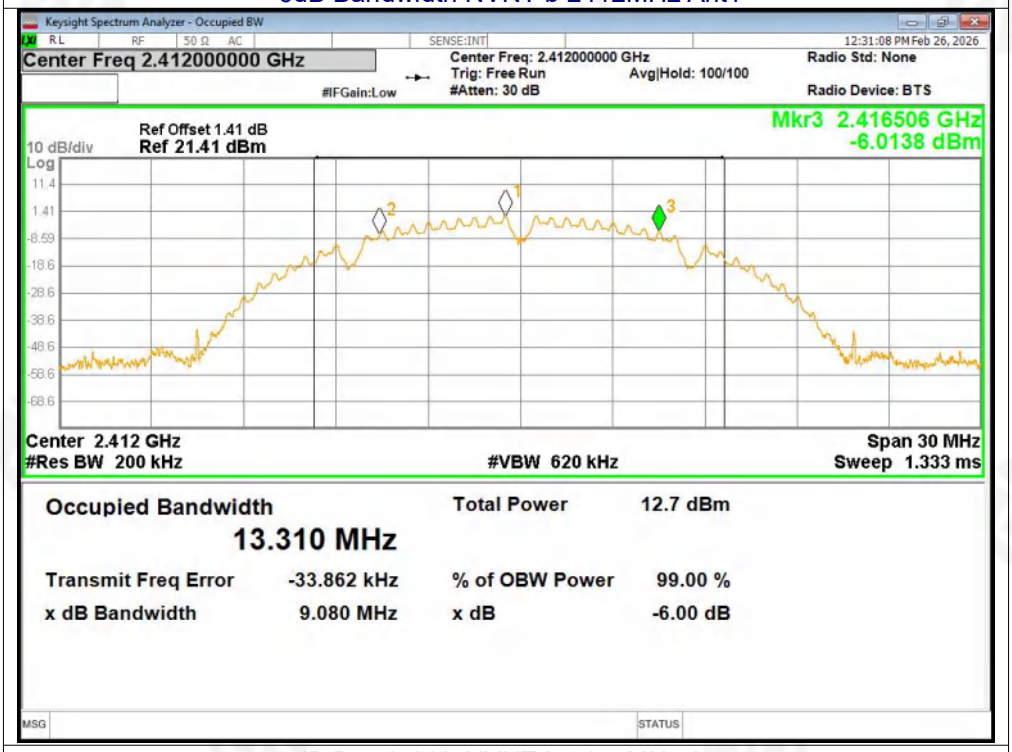
Test CH	-6dB Occupy Bandwidth (MHz)					
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(kHz)	Result
Lowest	9.080	16.403	17.579	36.216	>500	Pass
Middle	9.078	16.394	17.499	36.216		
Highest	9.070	16.375	17.576	36.352		

Test CH	99% OBW (MHz)					
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(kHz)	Result
Lowest	13.298	16.583	17.718	36.152	>500	Pass
Middle	13.186	16.532	17.669	36.079		
Highest	13.224	16.512	17.646	36.136		

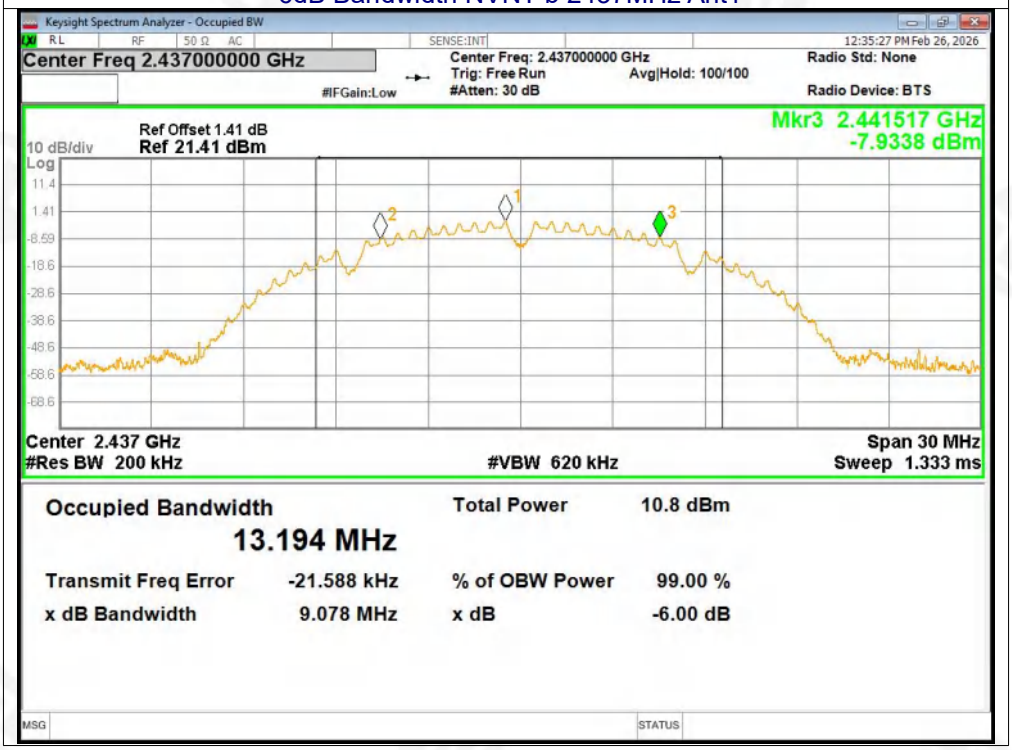
Test plot as follows:

Test Graphs

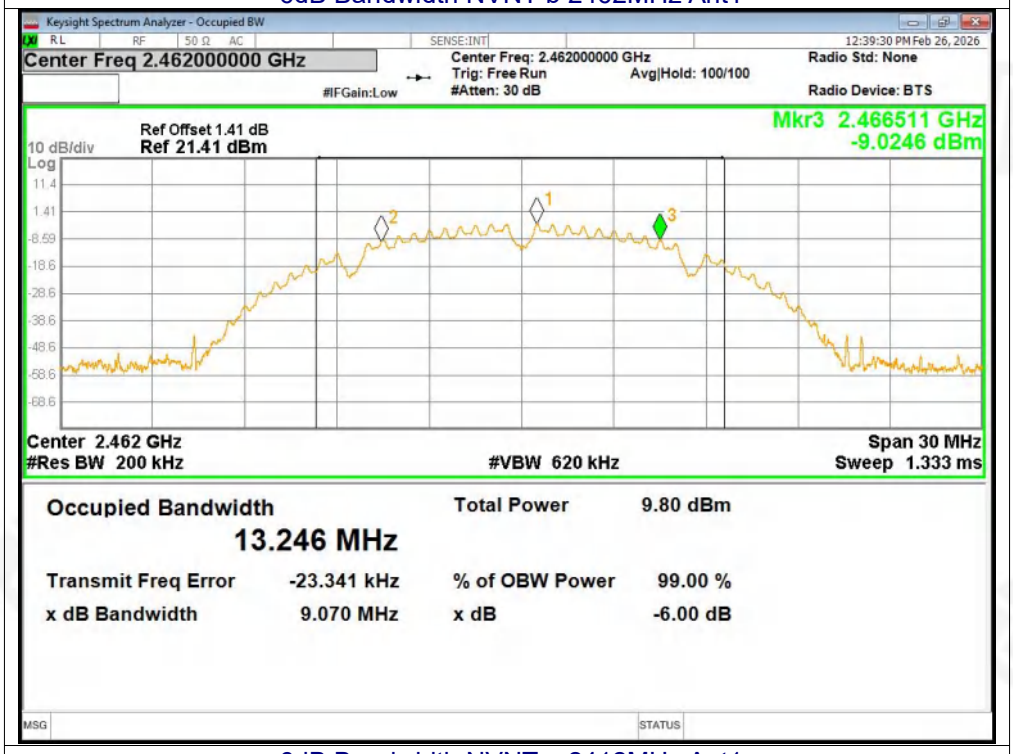
-6dB Bandwidth NVNT b 2412MHz Ant1



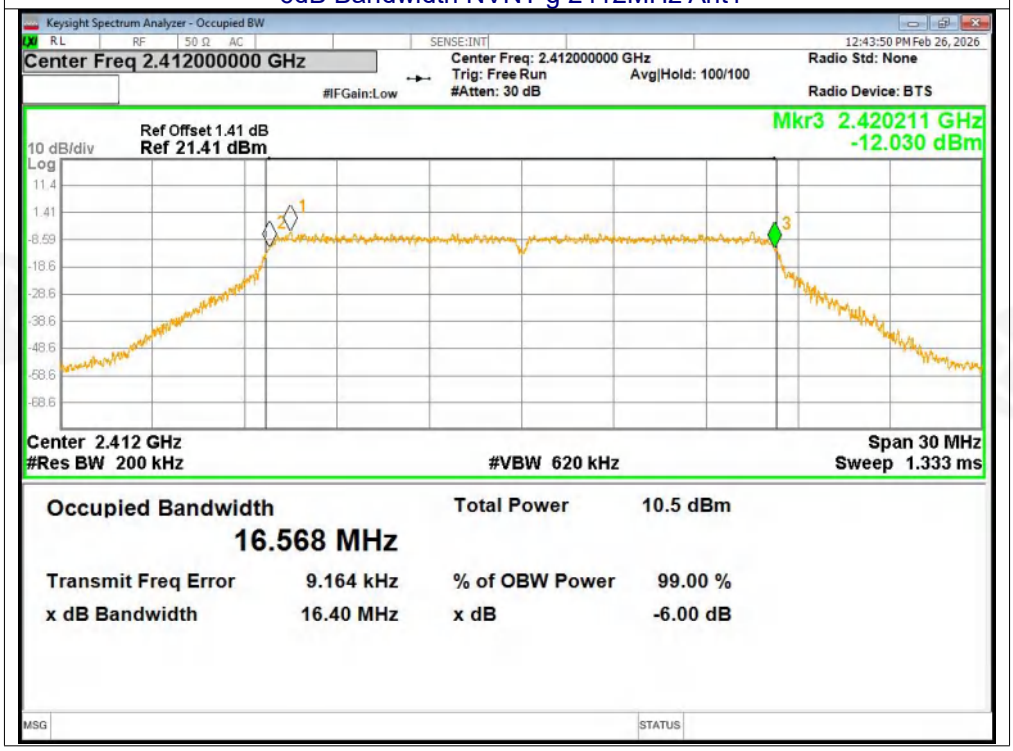
-6dB Bandwidth NVNT b 2437MHz Ant1



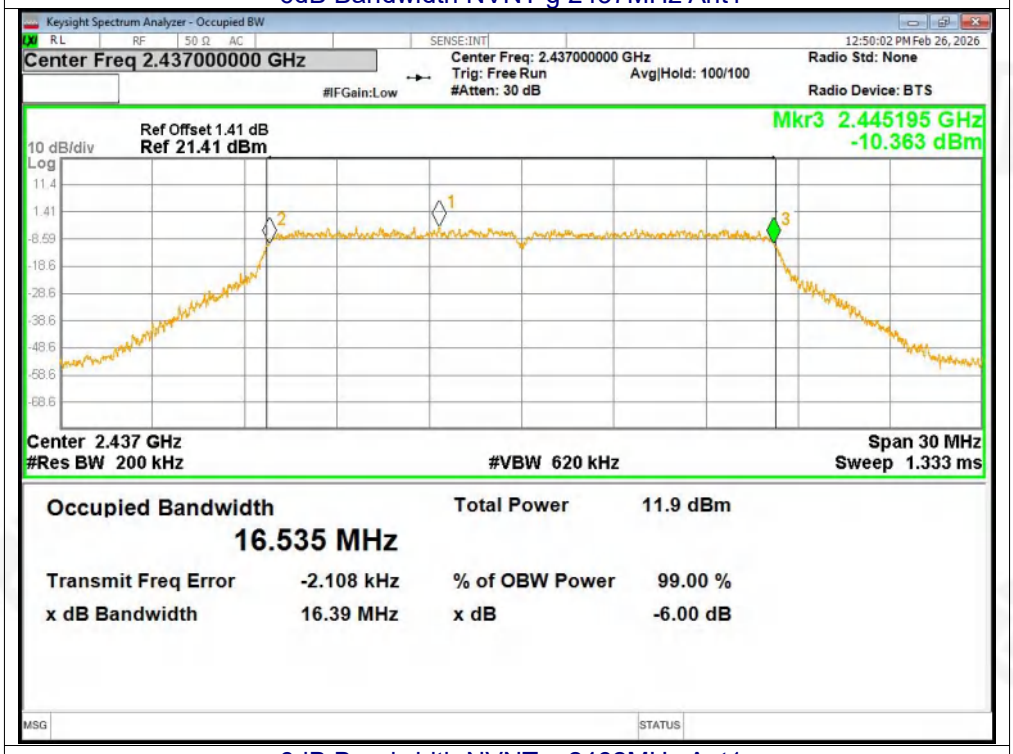
-6dB Bandwidth NVNT b 2462MHz Ant1



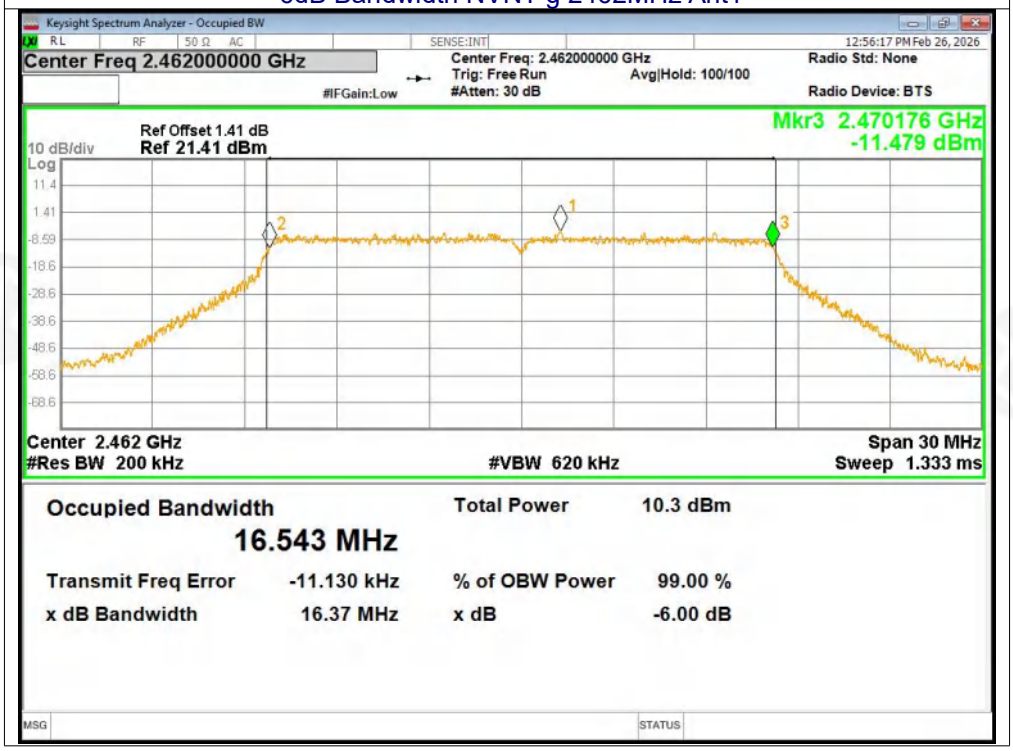
-6dB Bandwidth NVNT g 2412MHz Ant1



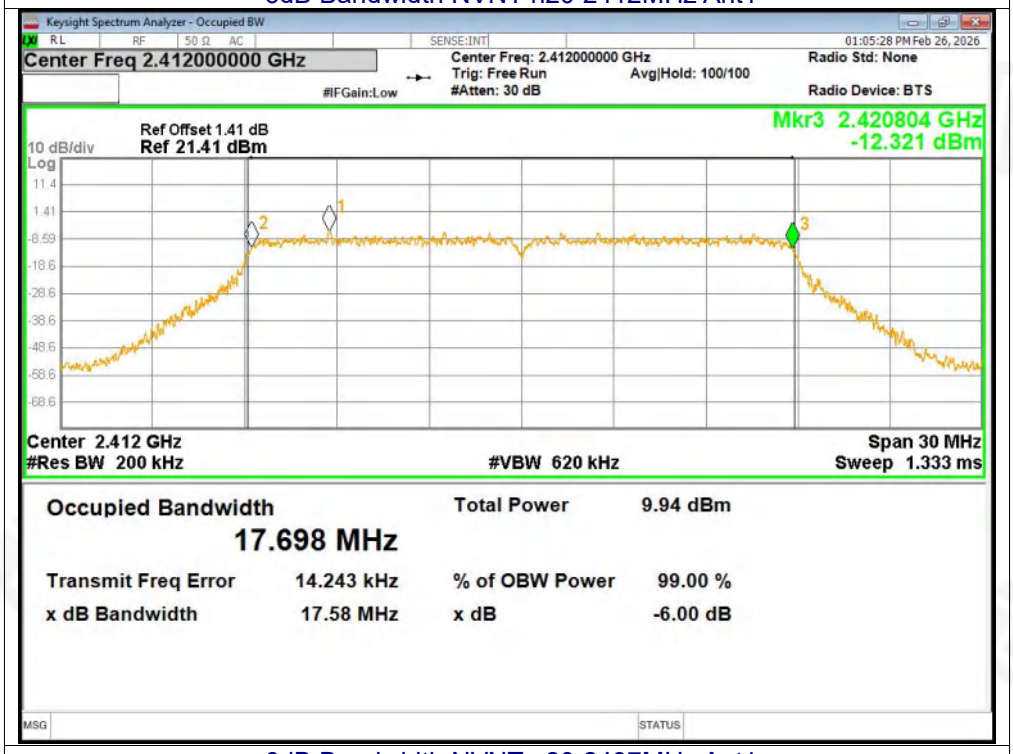
-6dB Bandwidth NVNT g 2437MHz Ant1



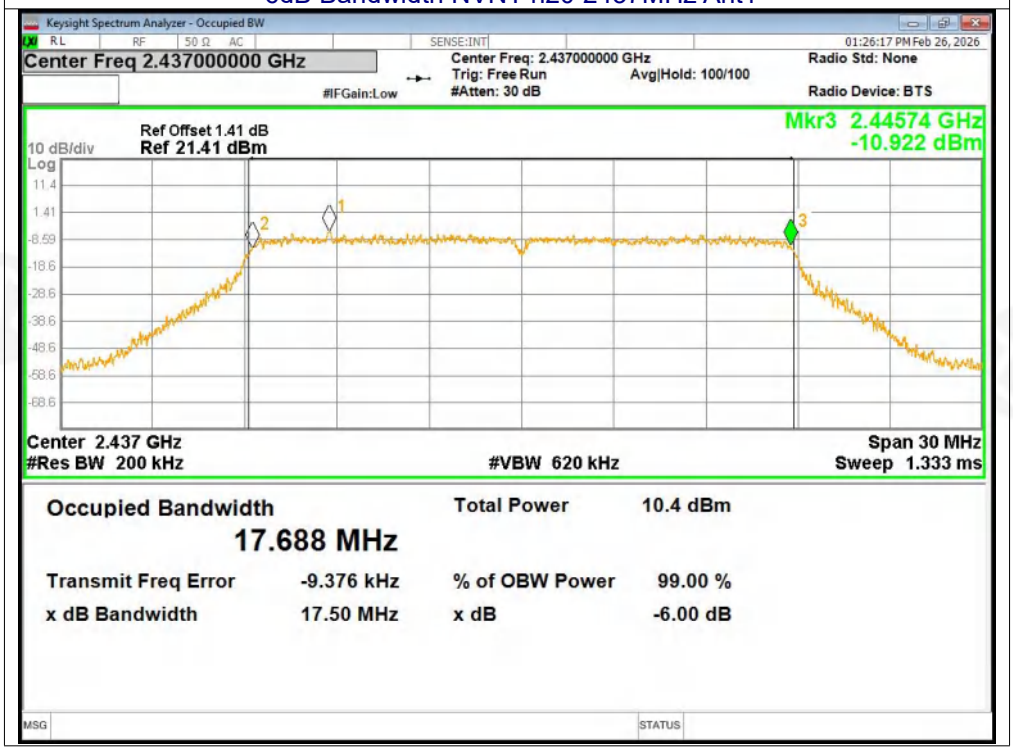
-6dB Bandwidth NVNT g 2462MHz Ant1



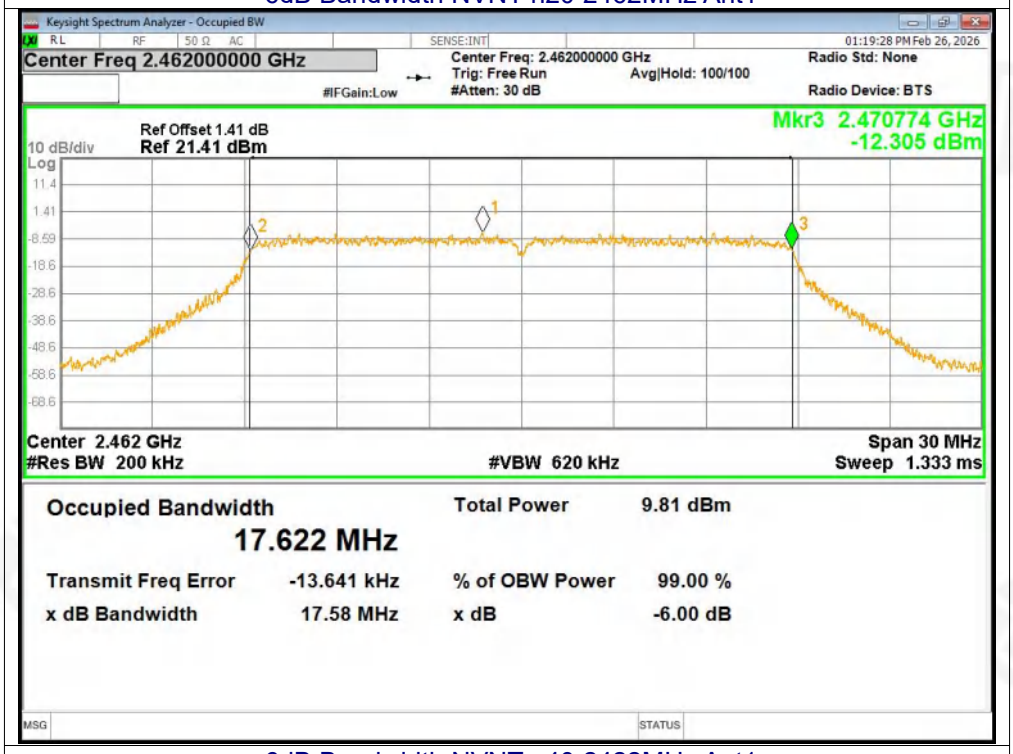
-6dB Bandwidth NVNT n20 2412MHz Ant1



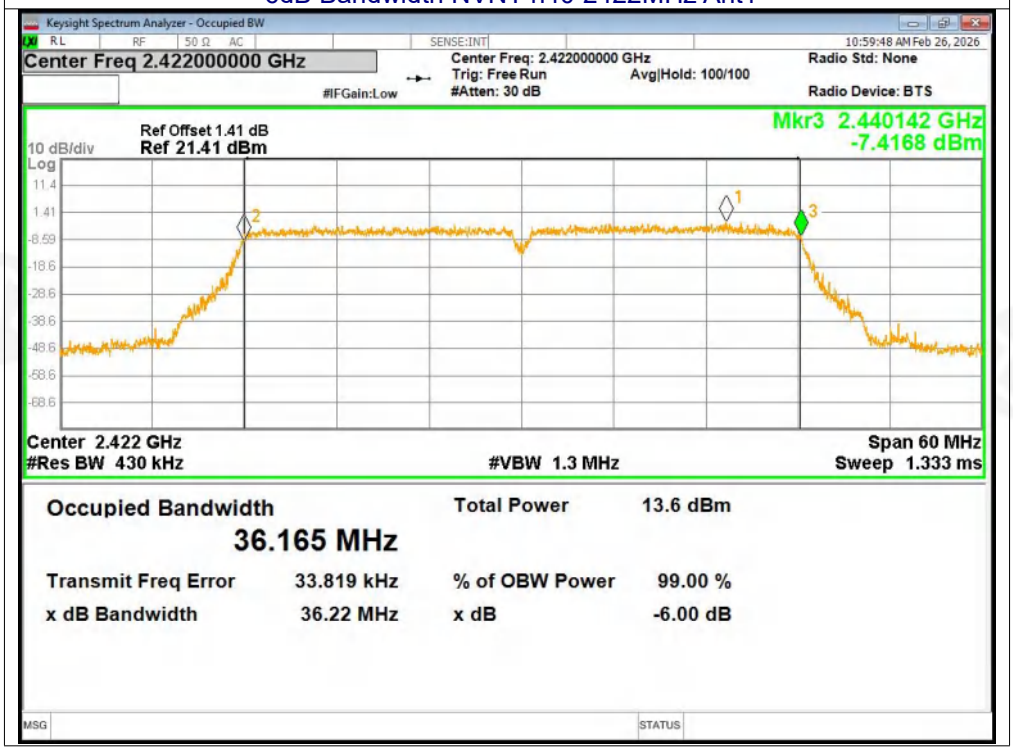
-6dB Bandwidth NVNT n20 2437MHz Ant1



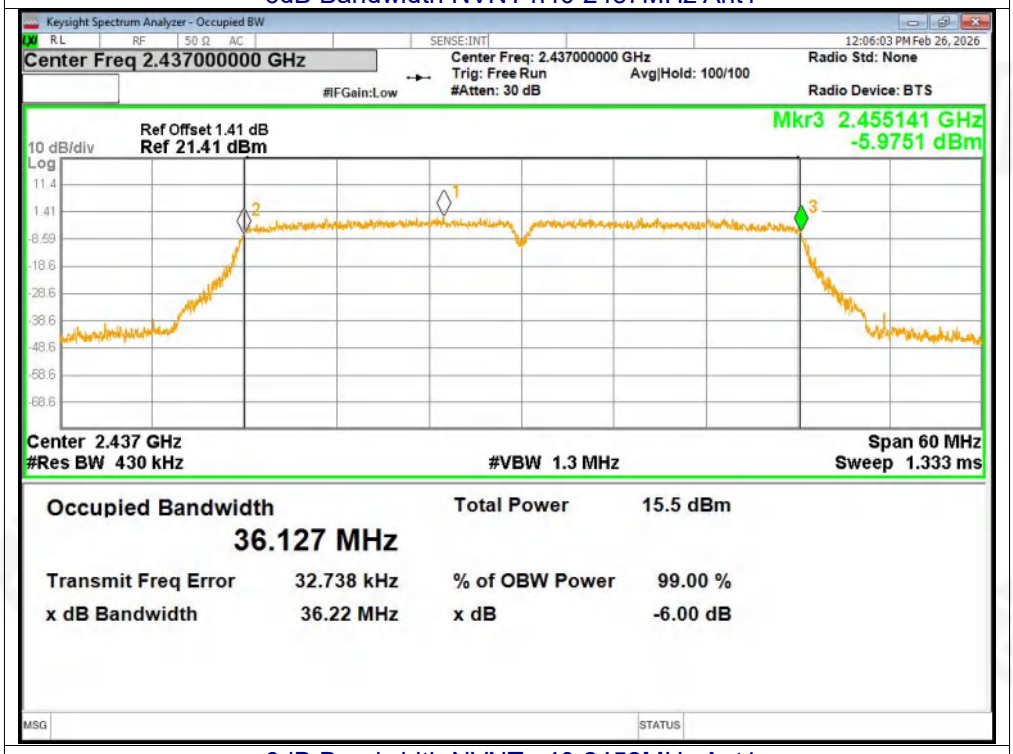
-6dB Bandwidth NVNT n20 2462MHz Ant1



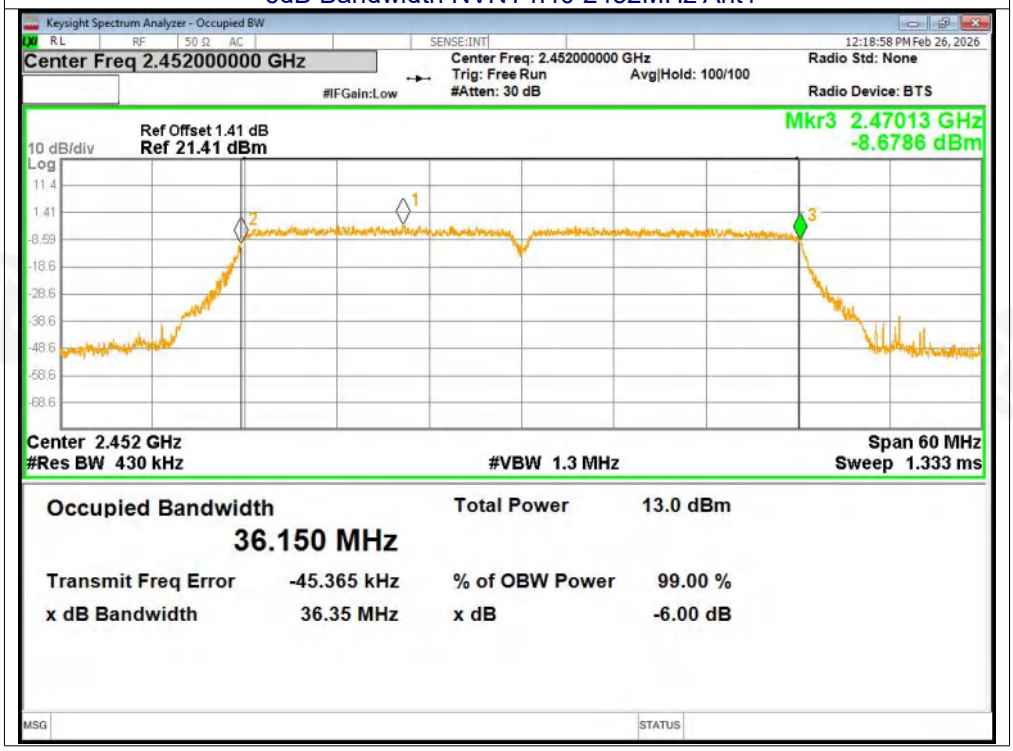
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1

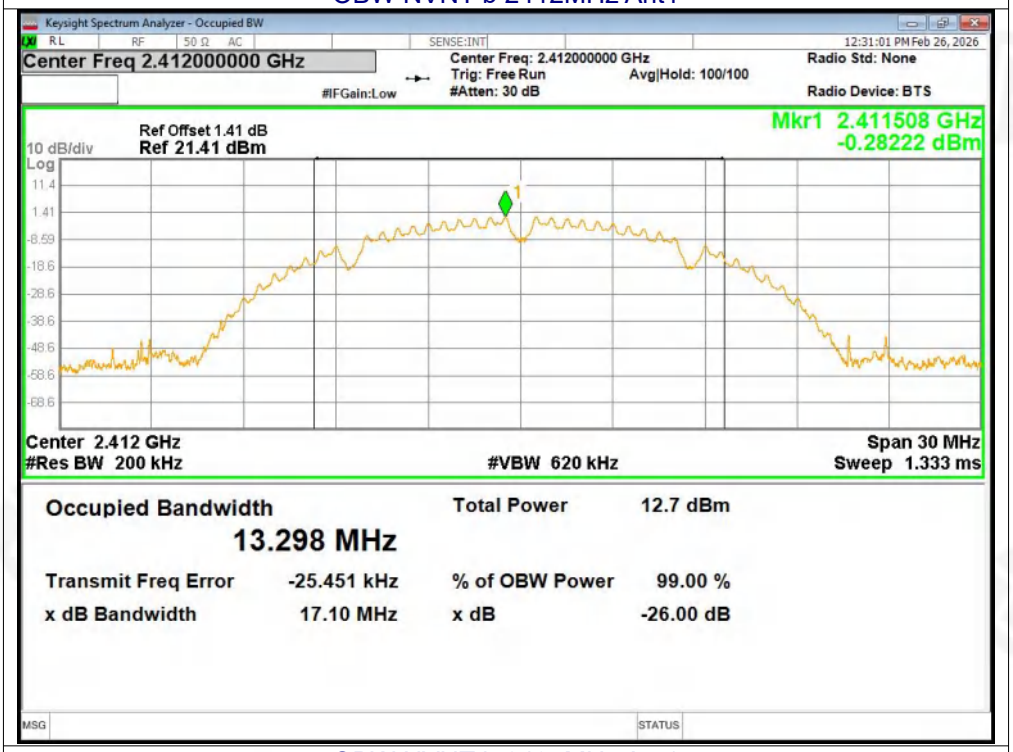


-6dB Bandwidth NVNT n40 2452MHz Ant1

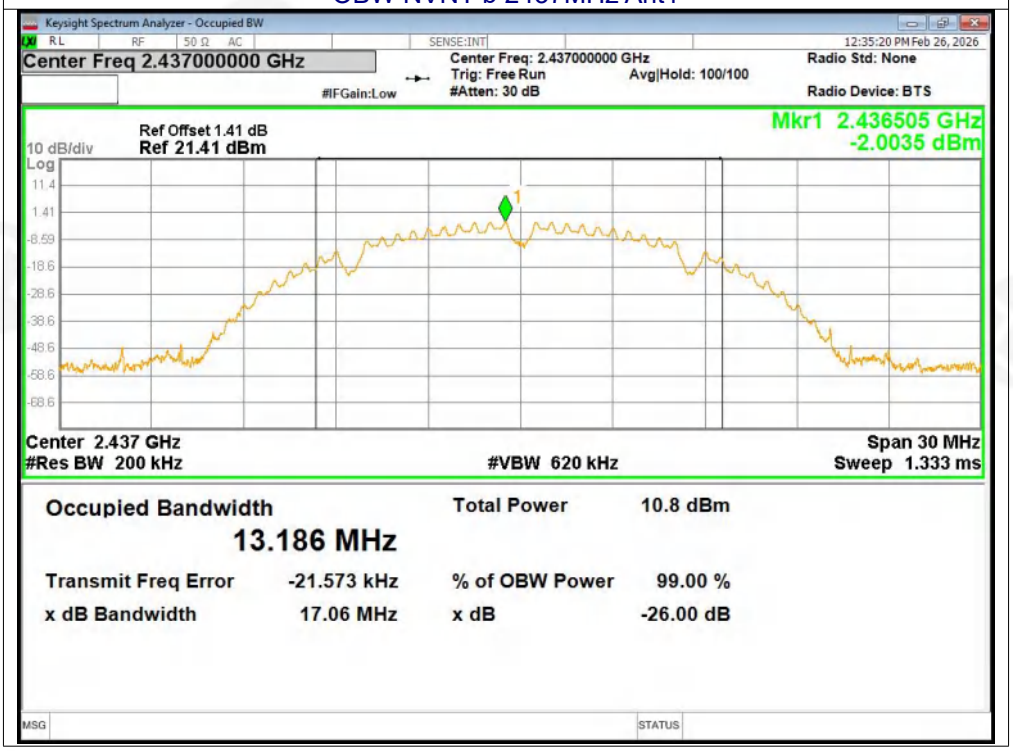


Test Graphs

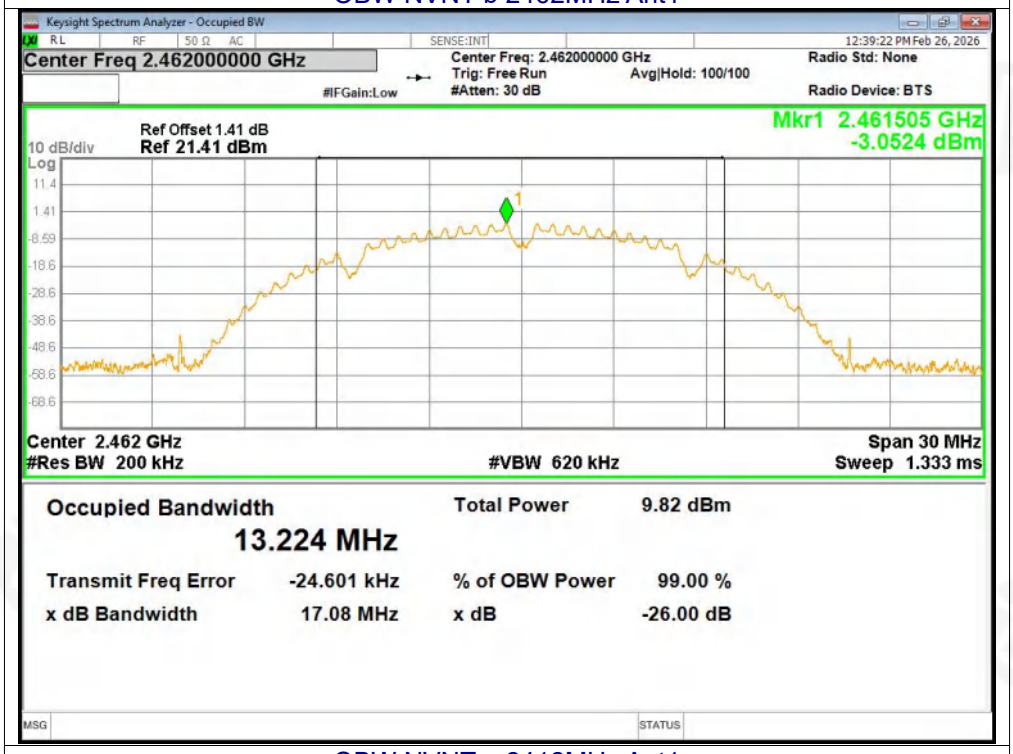
OBW NVNT b 2412MHz Ant1



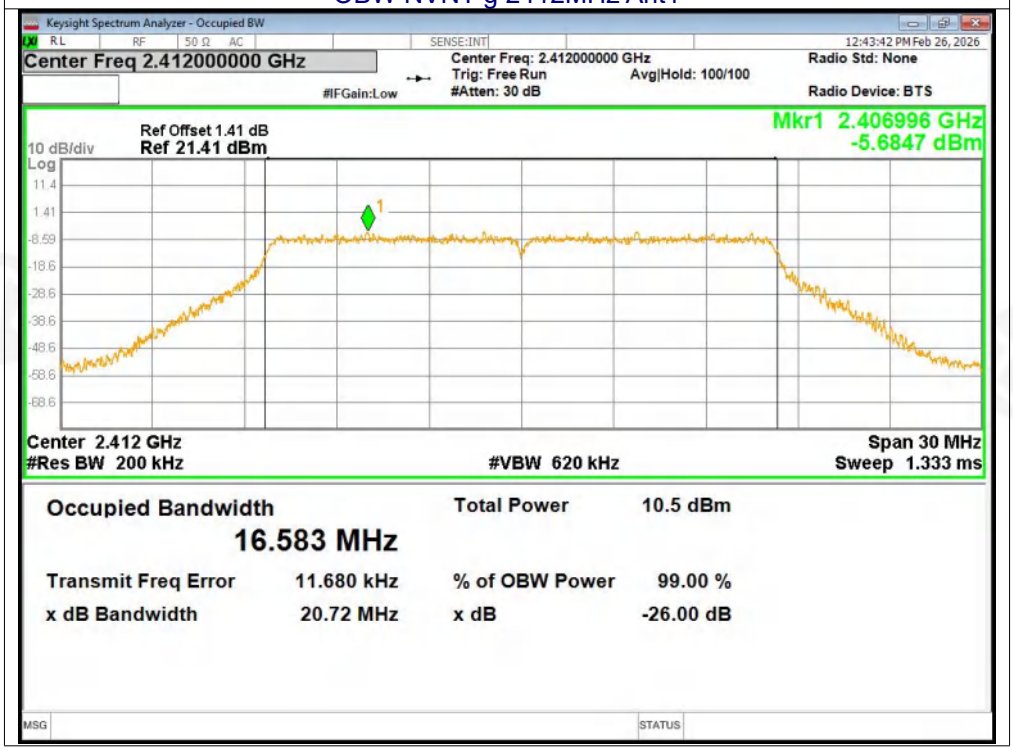
OBW NVNT b 2437MHz Ant1



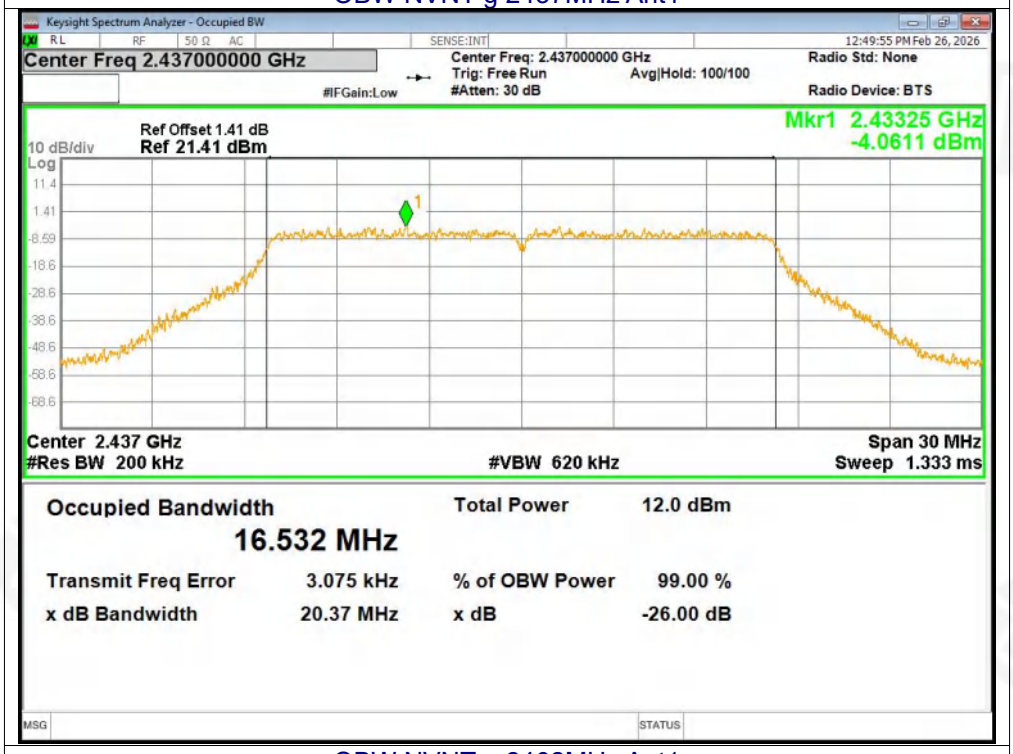
OBW NVNT b 2462MHz Ant1



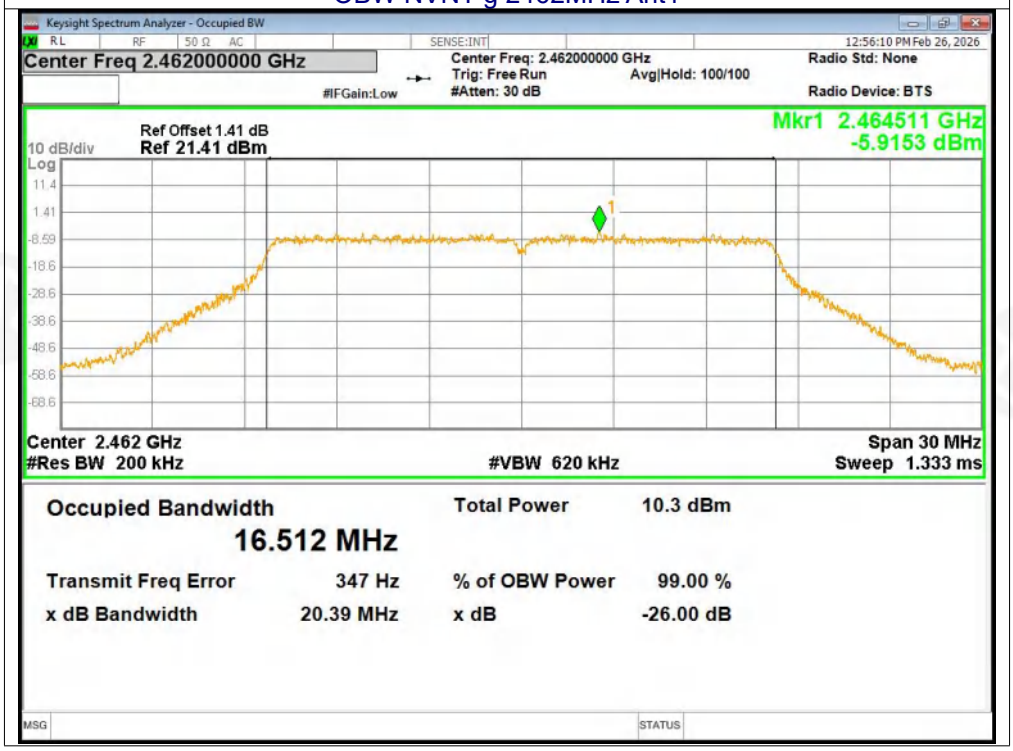
OBW NVNT g 2412MHz Ant1



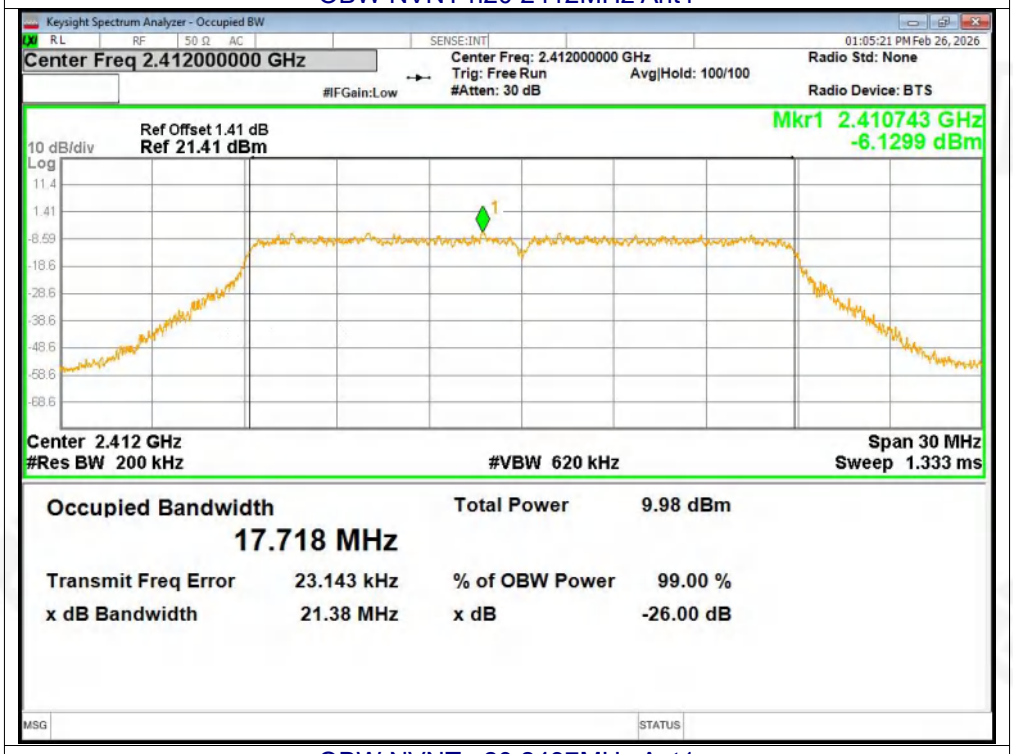
OBW NVNT g 2437MHz Ant1



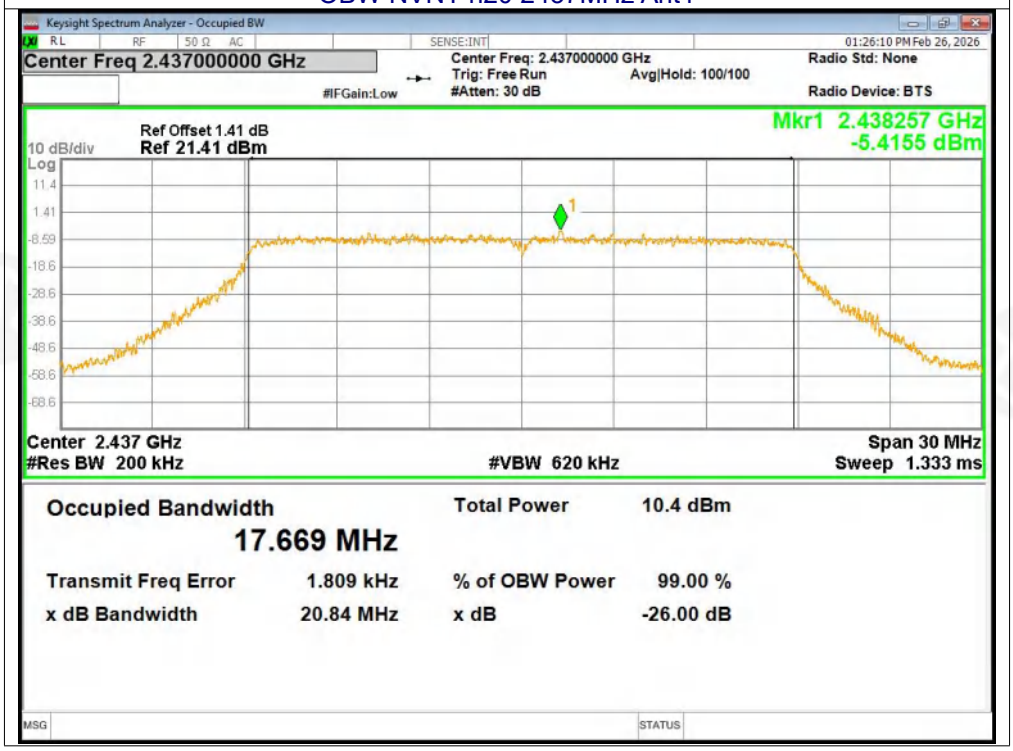
OBW NVNT g 2462MHz Ant1



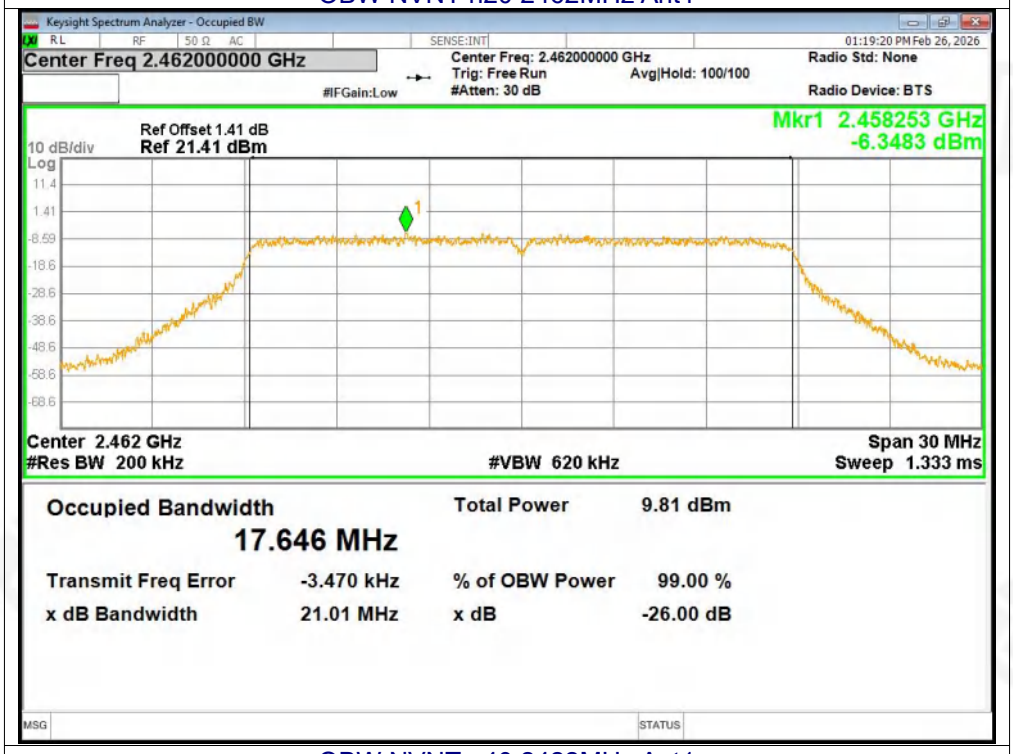
OBW NVNT n20 2412MHz Ant1



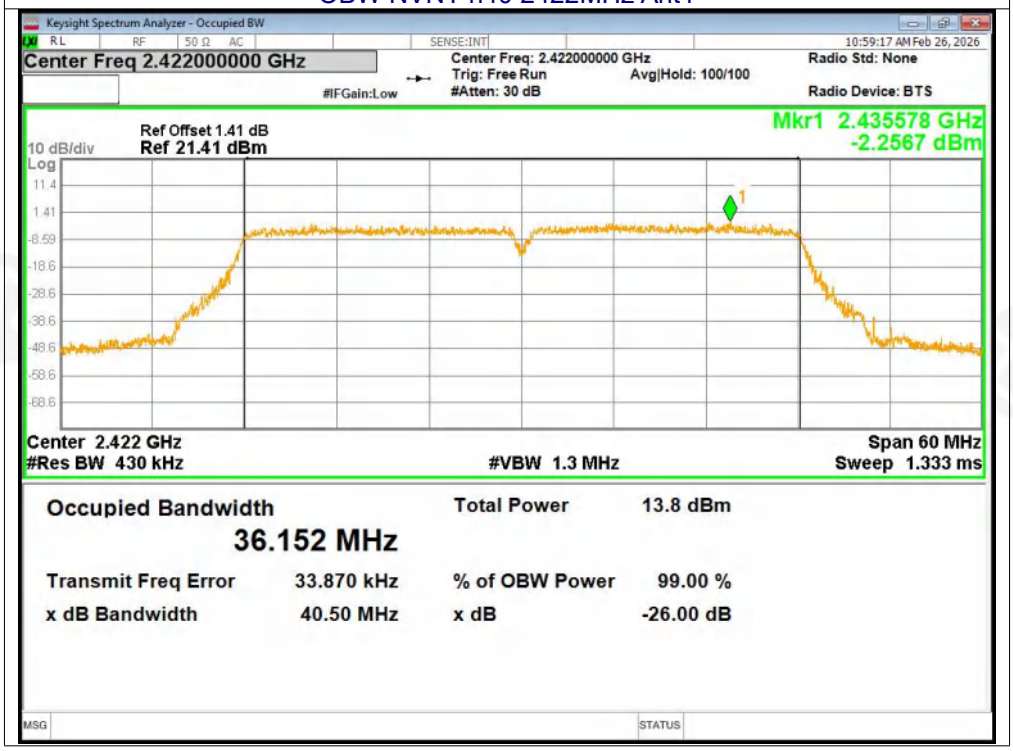
OBW NVNT n20 2437MHz Ant1



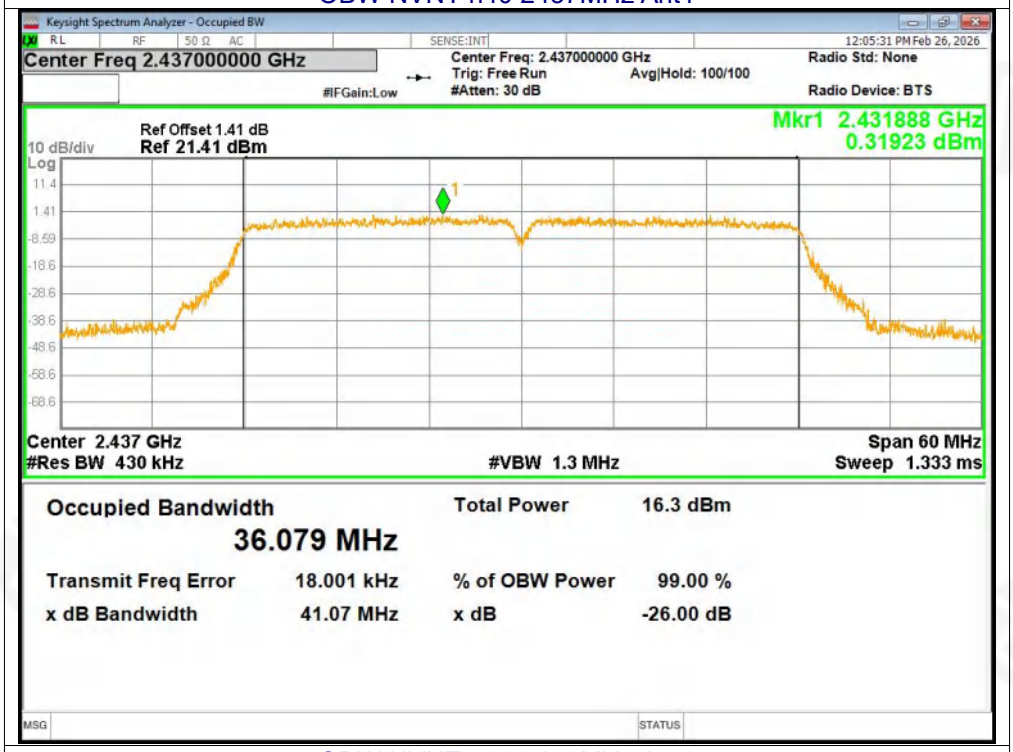
OBW NVNT n20 2462MHz Ant1



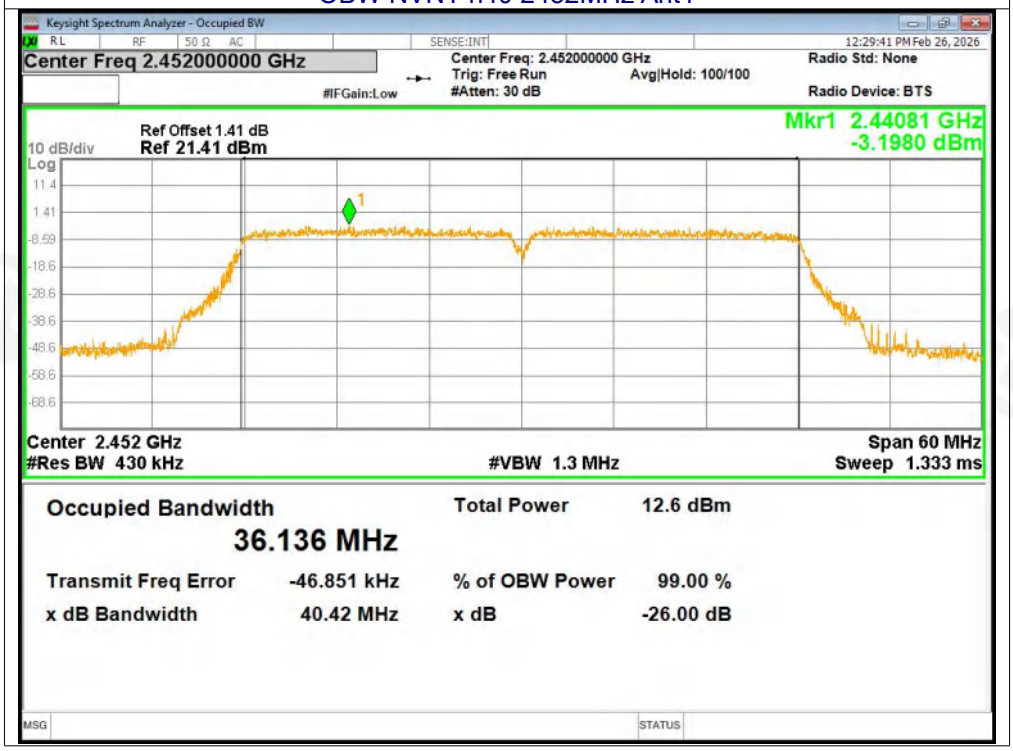
OBW NVNT n40 2422MHz Ant1



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

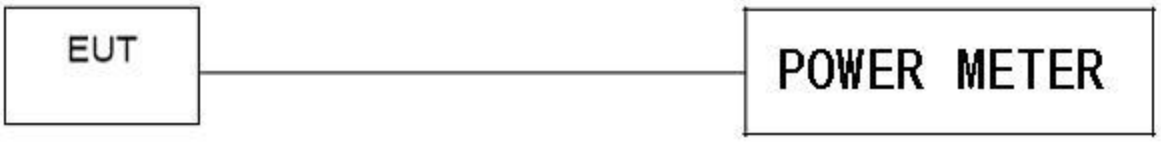
8.2 TEST PROCEDURE

a. 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 :	DC 3.7 V

Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	7.33	7.60	8.90	8.78	30.00	Pass
Middle	7.5	7.16	6.57	7.19		
Highest	6.46	7.42	6.85	7.98		

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 in 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

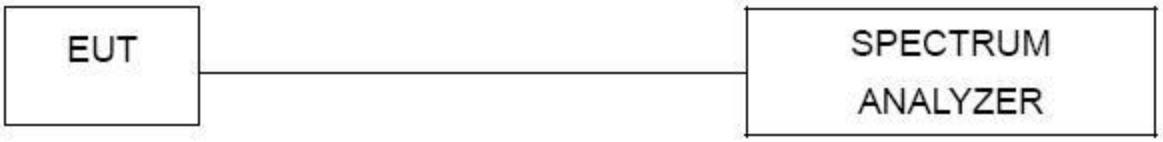
Using the following spectrum analyzer setting:

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



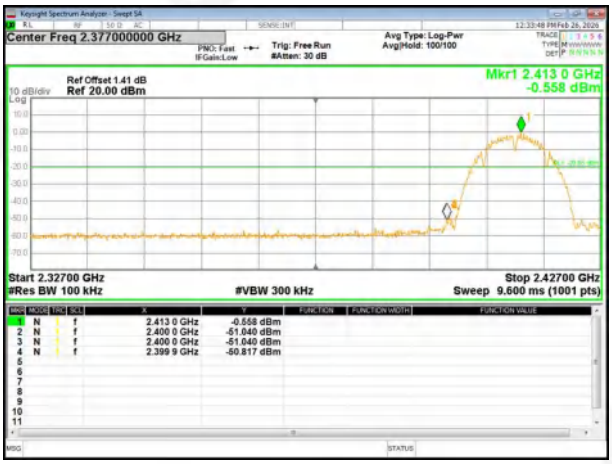
9.5 EUT OPERATION CONDITIONS

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:

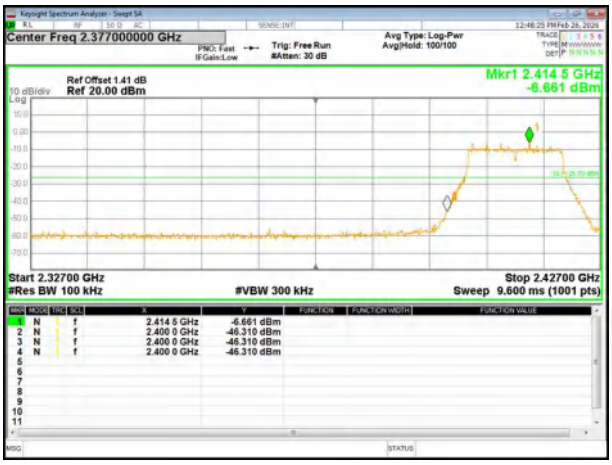
Test mode:	802.11b



Lowest channel

Highest channel

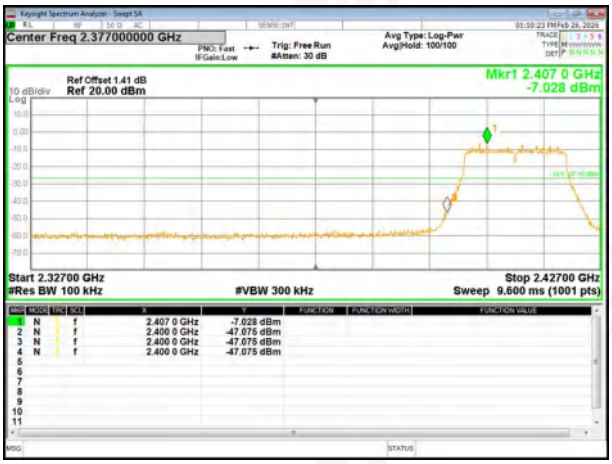
Test mode:	802.11g



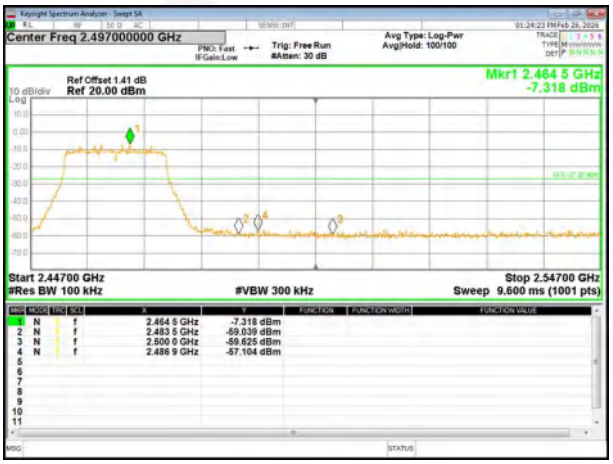
Lowest channel

Highest channel

Test mode:	802.11n(HT20)

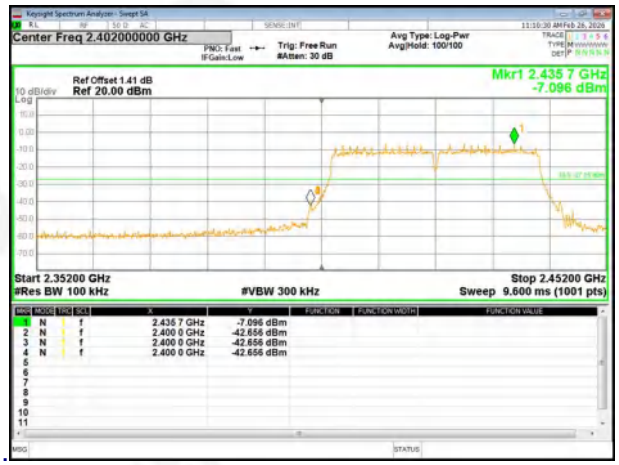


Lowest channel



Highest channel

Test mode:	802.11n(HT40)



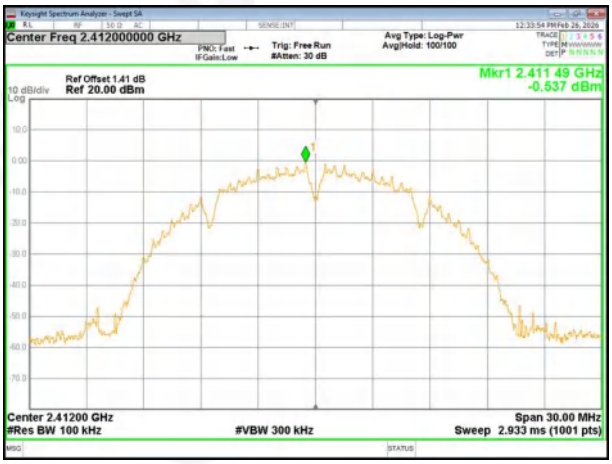
Lowest channel

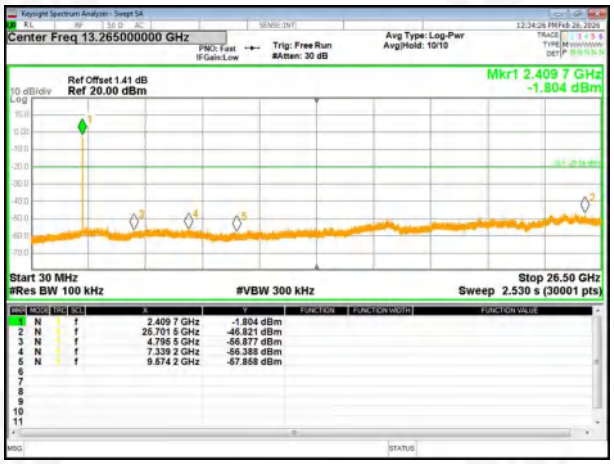
Highest channel

Test plot as follows:

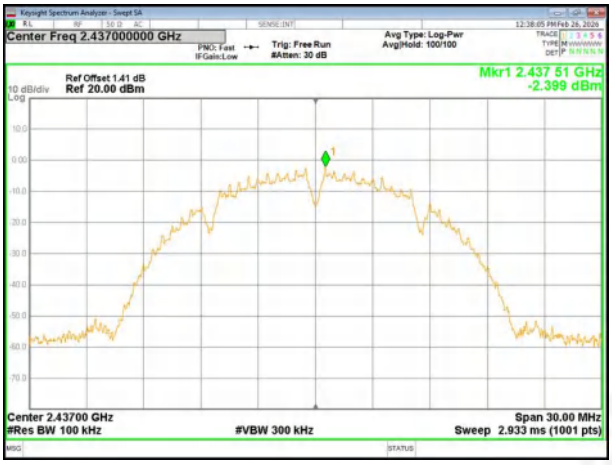
802.11b

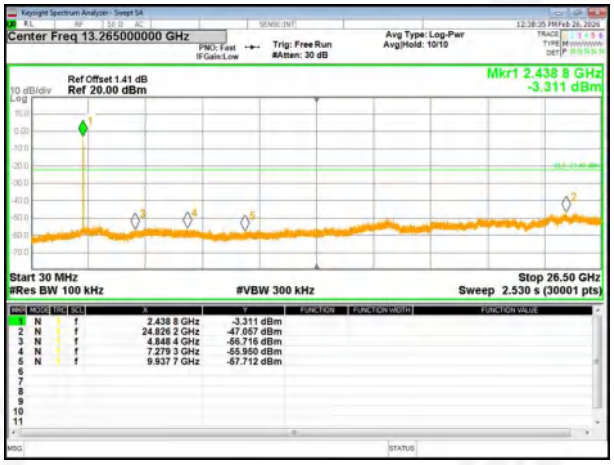
Lowest channel



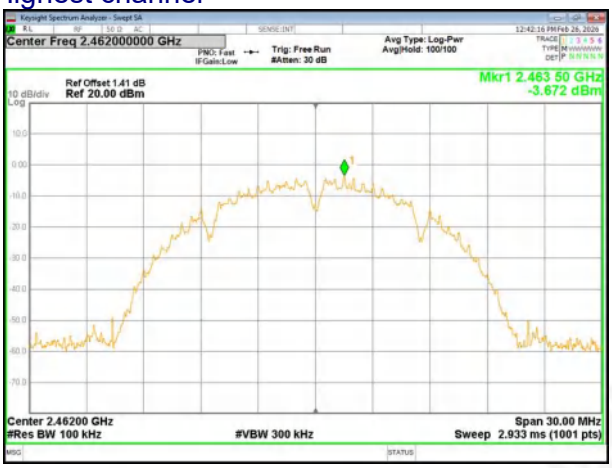


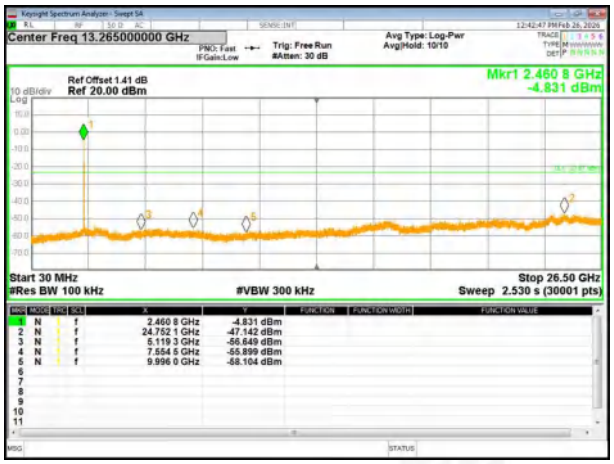
Middle channel





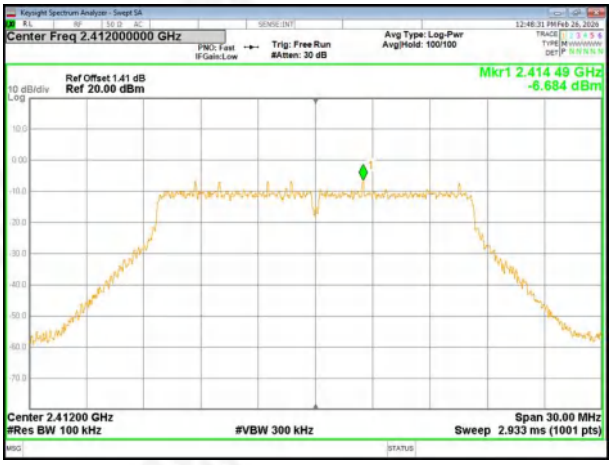
Highest channel



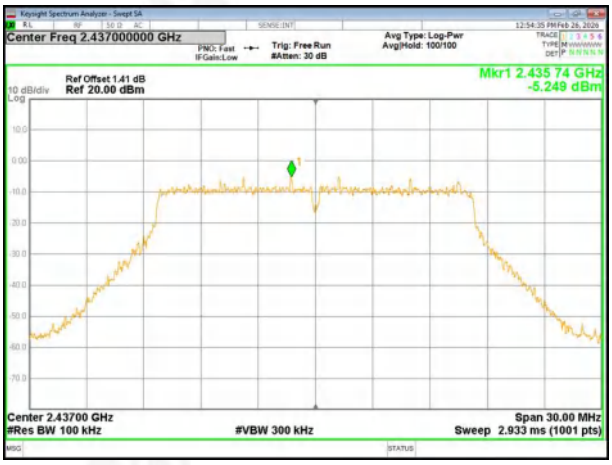


802.11g

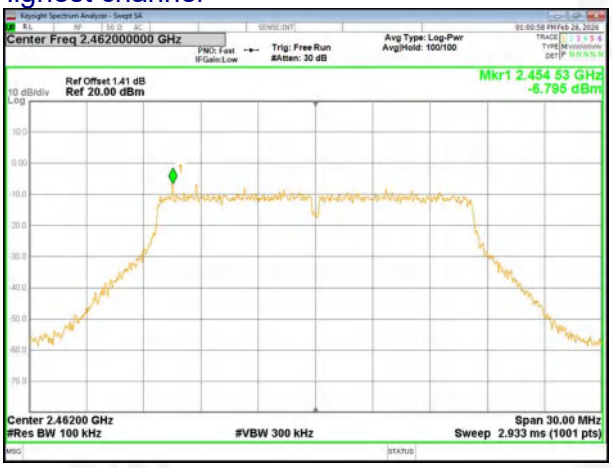
Lowest channel

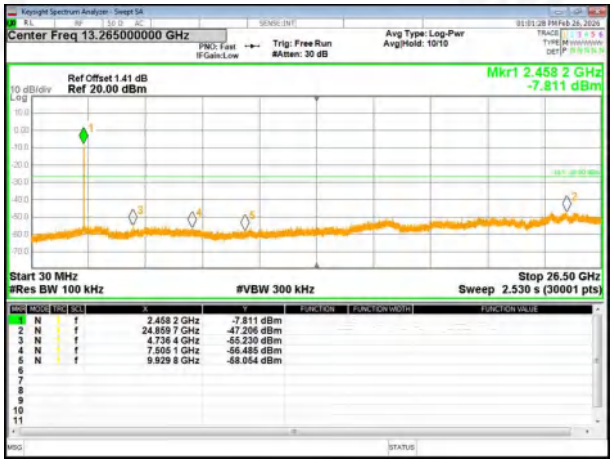


Middle channel



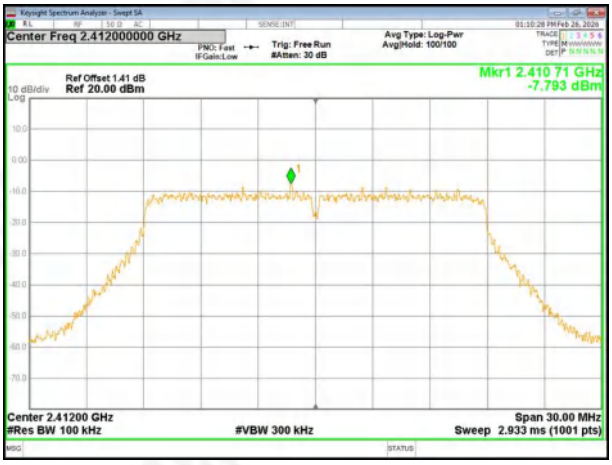
Highest channel





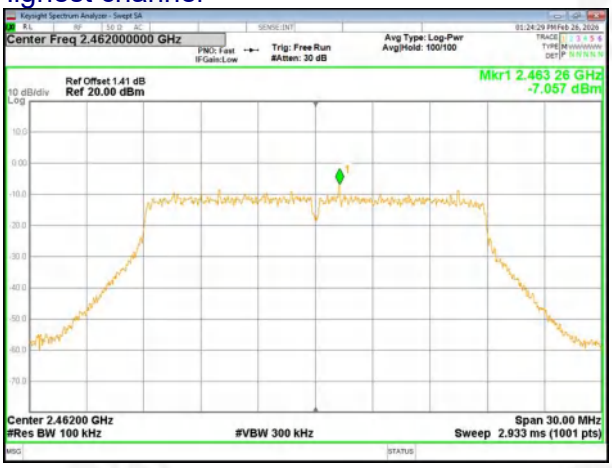
802.11n(HT20)

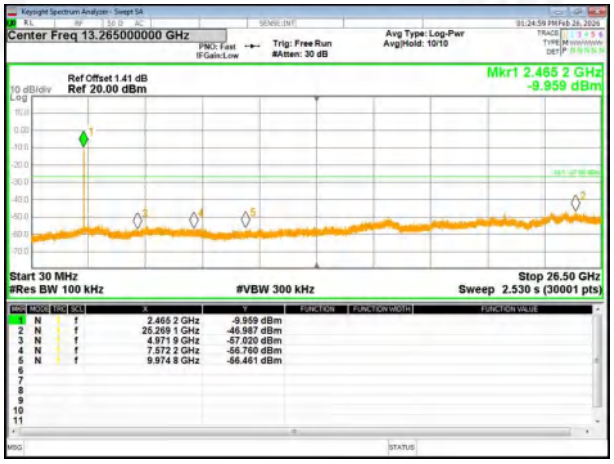
Lowest channel



Middle channel

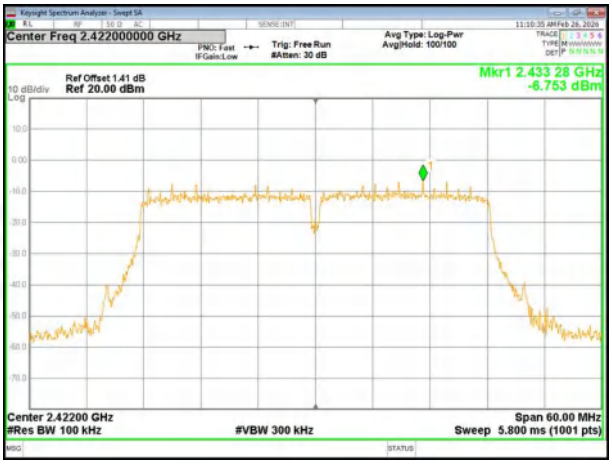
Highest channel



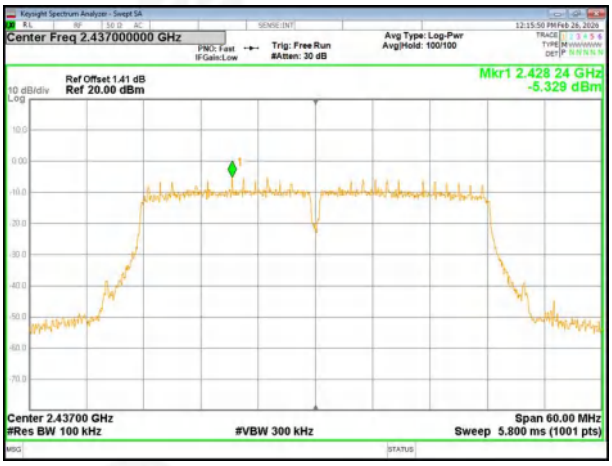


802.11n(HT40)

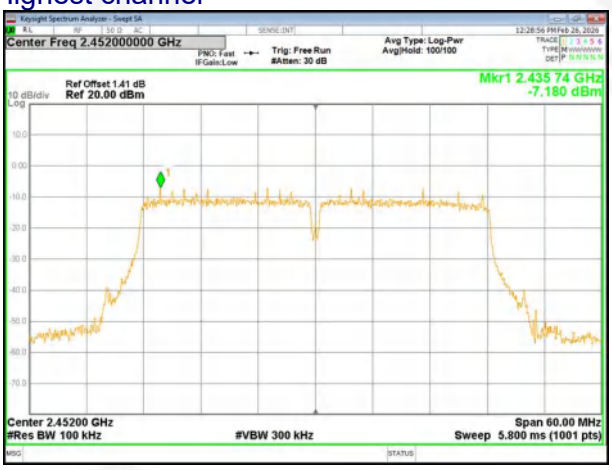
Lowest channel

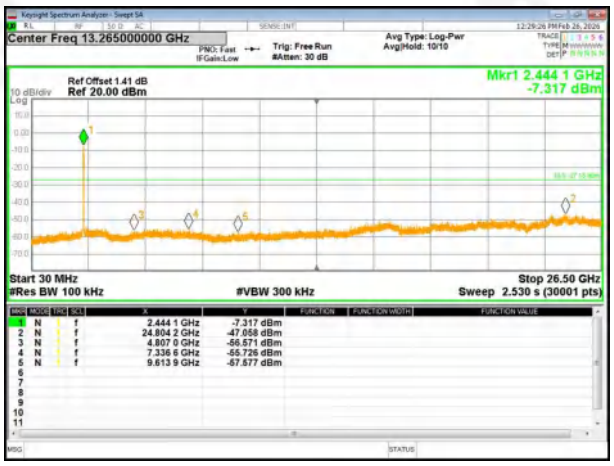


Middle channel



Highest channel





10. 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 3.53dBi, reference to the appendix II for details	

11. TEST SETUP PHOTO

Reference to the appendix I for details.

12. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

※※※※※ END OF REPORT ※※※※※