RF Test Report

For

Safemo Pte. Ltd.

Test Standards:	FCC Part 15 Subpart C
Product Name:	Smart Battery Cam
Tested Model:	SS131
Additional Model No.:	N/A
Brand Name:	N/A
FCC ID:	2BC5I-SS131
Classification	(DTS) Digital Transmission System
Report No.:	EC2409031RF02
Tested Date:	2024-12-18 to 2025-01-08
Issued Date:	2025-01-11
Prepared By:	Laxy Ruan / Engineer
Approved By:	Tiny Yang / RF Manager

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2025-01-11	Valid	Original Report

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Summary Of Test Result

FCC Rule	Description	Limit	Result	Remark
15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
-	99% Bandwidth	-	Pass	-
15.247(b)(3)	Output Power	≤ 30dBm	Pass	-
15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
15.247(d)	Conducted Band Edges and Spurious Emission	≤ 30dBc	Pass	-
15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 6.50 dB at 239.52 MHz
15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 25.76 dB at 7.329 MHz
15.203 & 15.247(b)	Antenna Requirement	-	Pass	-

1 Test Laboratory

1.1 Test facility

CNAS (accreditation number: L11138)

Hunan Ecloud Testing Technology Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (Designation number: CN1244 , Test Firm Registration Number: 793308)

Hunan Ecloud Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

ISED(CAB identifier: CN0012, ISED# :24347)

Hunan Ecloud Testing Technology Co., Ltd. has been listed on the Wireless Device Testing Laboratories list of innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements.

A2LA (Certificate Code : 4895.01)

Hunan Ecloud Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

2 General Description

2.1 Applicant

Safemo Pte. Ltd.

61 BUKIT BATOK CRESCENT #05-505,HENG LOONG BUILDING,SINGAPORE

2.2 Manufacturer

Safemo Pte. Ltd.

61 BUKIT BATOK CRESCENT #05-505,HENG LOONG BUILDING,SINGAPORE

2.3 General Description Of EUT

Product	Smart Battery Cam
Model No.	SS131
Additional No.	N/A
Difference Description	N/A
FCC ID	2BC5I-SS131
Power Supply	3.6Vdc From Battery
Modulation Technology	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Type	802.11b : DSSS 802.11g/n : OFDM
Operating Frequency	2412-2462MHz
Number Of Channel	11
Max. Output Power	802.11b : 16.46 dBm (0.04426 W) 802.11g : 15.58 dBm (0.03614 W) 802.11n HT20 : 15.46 dBm (0.03516 W)
Antenna Type	FPC Antenna with 2.97dBi gain
HW Version	SS131_C02_V4
SW Version	1.9.10
Sample no.	2409031R-1/4~4/4
Sample Received Date	2024-12-17
I/O Ports	Refer to user's manual

NOTE:

1. The above EUT information is declared by manufacturer. The laboratory is not responsible for the information provided by the manufacturer.

2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

2.4 Test Location

All tests were performed at:

Building A1, Changsha E Centre, No. 18 Xiangtai Avenue, Liuyang Economic and Technological Development Zone, Hunan, P.R.C.

Telephone: +86 (0) 731 8963 4887 Fax:+86 (0) 731 8963 4887

No tests were sub-contracted.

2.5 Modification of EUT

No modifications are made to the EUT during all test items.

2.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C
- ANSI C63.10-2020
- KDB 558074 D01 15.247 Meas Guidance v05r02

3 Test Configuration of Equipment Under Test

3.1 Descriptions of Test Mode

11 channels are provided for 802.11b, 802.11g and 802.11n(HT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

The transmitter has a maximum conducted output power as follows:

Frequency Range(MHz)	Mode	Rate	Output Power(dBm)
2412~2462	802.11b	1M	16.46
2412~2462	802.11g	6M	15.58
2412~2462	802.11n HT20	MCS0	15.46

Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

3.2 Test Mode

3.2.1 Antenna Port Conducted Measurement

Summary table of Test Cases			
Test Item	Modulation		
	802.11 b	802.11 g	802.11n HT20
Conducted Test Cases	Mode 1: CH01 Mode 2: CH06 Mode 3: CH011	Mode 1: CH01 Mode 2: CH06 Mode 3: CH011	Mode 1: CH01 Mode 2: CH06 Mode 3: CH011

3.2.2 Radiated Emission Test (Below 1GHz)

Radiated Test Cases	802.11 b
	Mode 1: CH01

Note : 1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna

diversity architecture) and packet type. Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation.

2. Following channel(s) was (were) selected for the final test as listed above.

3.2.3 Radiated Emission Test (Above 1GHz)

Test Item	Modulation		
	802.11 b	802.11 g	802.11n HT20
Radiated Test Cases	Mode 1: CH01 Mode 2: CH06 Mode 3: CH11	Mode 1: CH01 Mode 2: CH06 Mode 3: CH11	Mode 1: CH01 Mode 2: CH06 Mode 3: CH11

Note : 1. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z it was determined that Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation.

2. Following channel(s) was (were) selected for the final test as listed above

3. For frequency above 18GHz, the measured value is much lower than the limit, therefore, it is not reflected in the report.

3.2.4 Power Line Conducted Emission Test

AC Conducted Emission	Mode 1 : Adapter + Notebook

3.3 Support Equipment

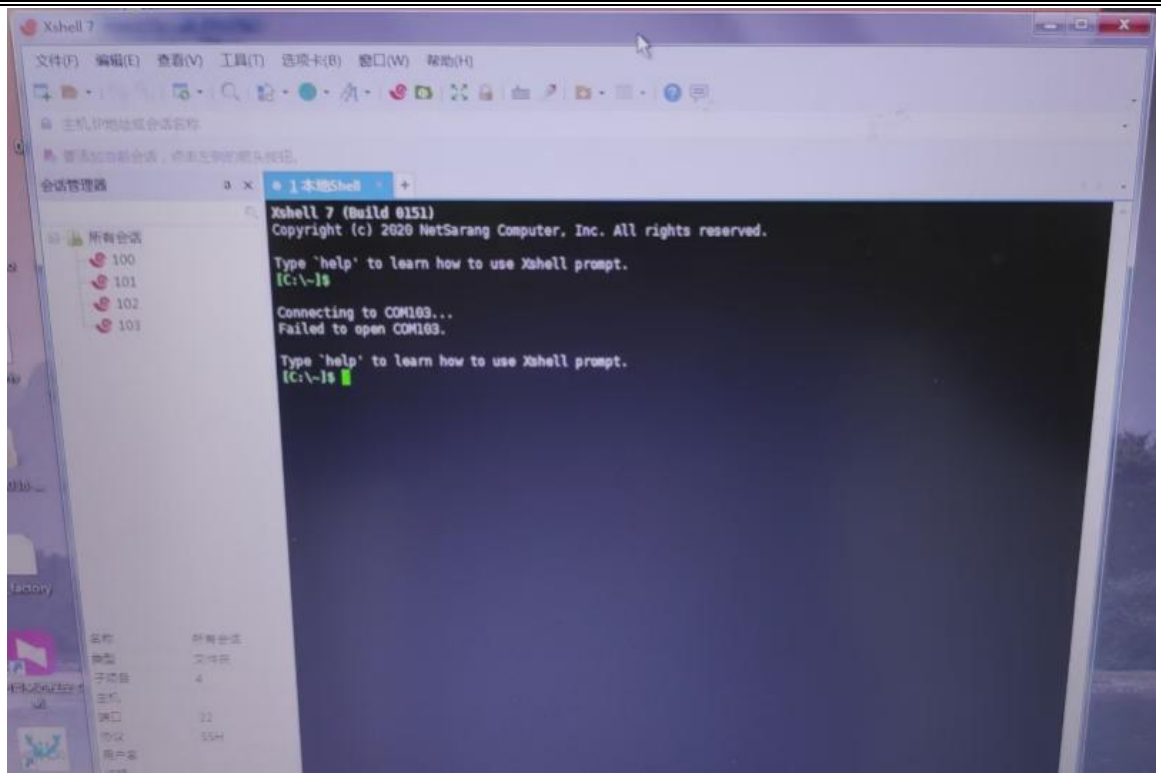
Item	Equipment	Trade Name	Model Name	Serial Number	Note
1.	Notebook	Lenovo	E580	PF-12XLH6	SDoC
2.	Adapter	Xiaomi	MDY-12-EF	TA62212E209292G	SDoC

3.4 Test Setup

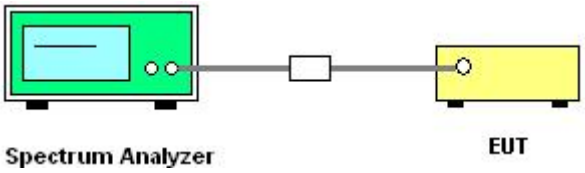
For WLAN test items, an engineering test program was provided and enabled to make EUT continuous transmitting and receiving signals.

The following picture is a screenshot of the test software.

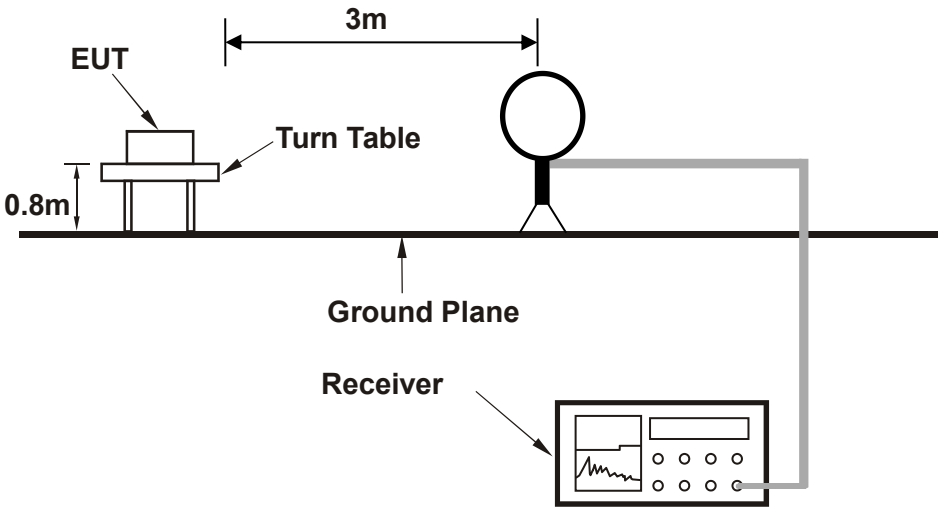
Xshell 7 7.0.0039



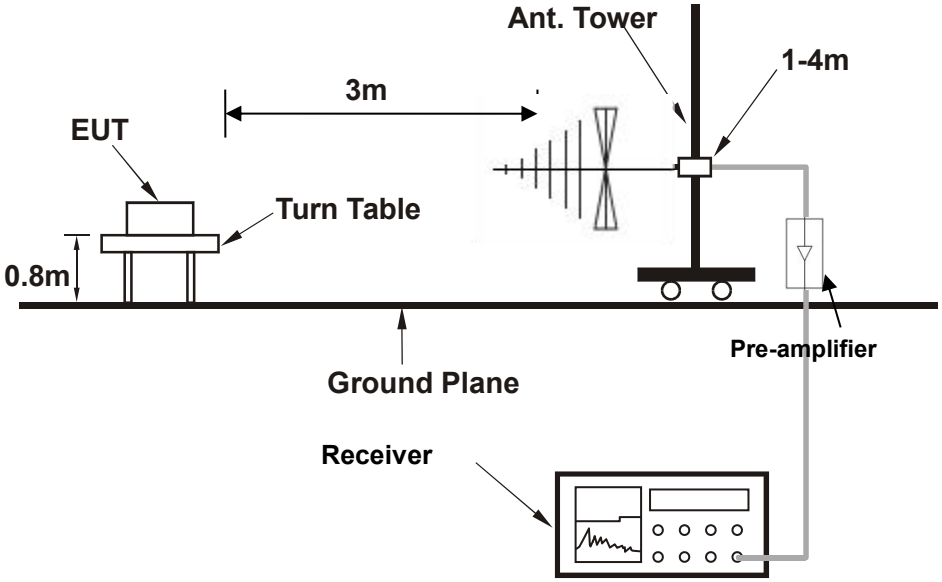
Setup diagram for Conducted Test



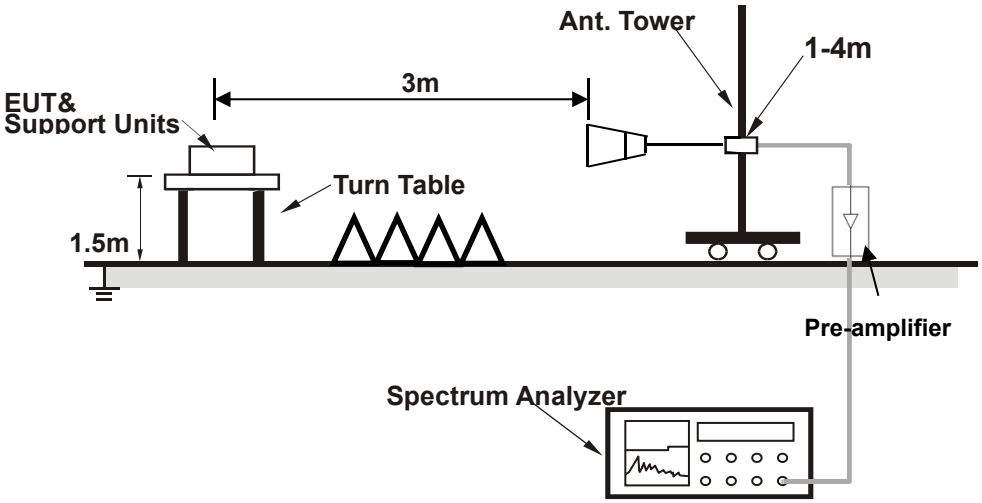
Setup diagram for Radiation(9KHz~30MHz) Test



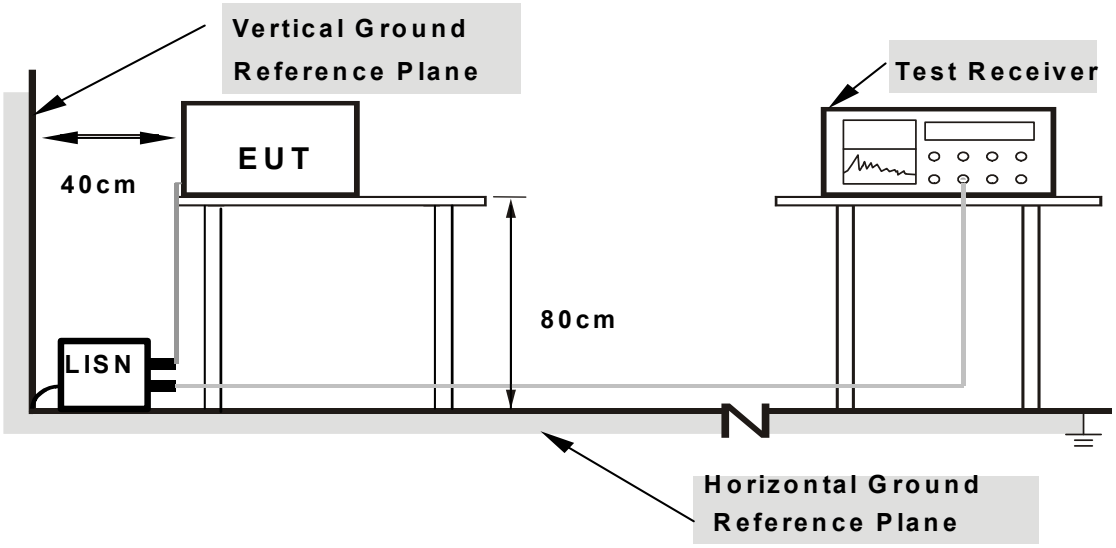
Setup diagram for Radiation(Below 1G) Test



Setup diagram for Radiation(Above1G) Test



Setup diagram for AC Conducted Emission Test



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 5 + 10 = 15 (dB)

For all radiated test items:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Over Limit (dBμV/m) = Level(dBμV/m) - Limit Level (dBμV/m)

4 Test Result

4.1 6dB and 99% Bandwidth Measurement

4.1.1 Limit of 6dB and 99% Bandwidth

FCC §15.247 (a) (2)

The minimum 6 dB bandwidth shall be at least 500 kHz.

4.1.2 Test Procedures

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to measurement instrument.
3. Set to the maximum power setting and enable Transmitting the EUT transmit continuously
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth (VBW) ≥ [3 × RBW]. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW.

4.1.3 Test Result of 6dB Bandwidth

Please refer to Appendix A of this report.

4.1.4 Test Result of 99% Bandwidth

Please refer to Appendix B of this report.

4.2 Output Power Measurement

4.2.1 Limit of Output Power

FCC §15.247 (b)(3)

For systems using digital modulation in the 2400-2483.5 MHz bands: 30dBm.

4.2.2 Test Procedures

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to spectrum analyzer.
3. Set to the maximum power setting and enable Transmitting the EUT transmit continuously
4. Measure the duty cycle, x, of the transmitter output signal as described in below:
   a. Set the center frequency of the instrument to the center frequency of the transmission.
   b. Set RBW to the largest available Transmitting value.
   c. Set detector = peak
5. Set span to more than 1.5*OBW.Set RBW=510KHz,VBW=2MHz, Number of points in sweep ≥ [2 × span / RBW]. Sweep time = auto. Detector = RMS.
6. Allow the sweep to “free run”. Trace average 100 traces in RMS mode
7. Compute power by integrating the spectrum across the OBW of the signal using the instrument’s Channel power measurement function with band limits set equal to the OBW band edges.
8. Add 10 log (1/x), where x is the duty cycle.

4.2.3 Test Result of Duty Cycle

Please refer to Appendix G of this report.

4.2.4 Test Result of Output Power

Please refer to Appendix C of this report.

4.3 Power Spectral Density Measurement

4.3.1 Limits of Power Spectral Density

FCC§15.247(e)

The power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

4.3.2 Test Procedure

1. Turn on the EUT and connect it to measurement instrument.
2. Measure the duty cycle, x, of the transmitter output signal as described in below:
   a. Set the center frequency of the instrument to the center frequency of the transmission.
   b. Set RBW to the largest available Transmitting value.
   c. Set detector = peak.
3. Set span to more than 1.5*OBW.Set RBW= 30 KHz,VBW=100 KHz, Number of points in sweep ≥ [2 × span / RBW]. Sweep time = auto.
4. Detector = power averaging (rms), Sweep time = auto couple, Trace mode = averaging (rms) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level.
5. Add 10 log (1/x), where x is the duty cycle.
6. Measure and record the results in the test report. The final Result[dBm/3kHz]= Result[dBm/30kHz]-10*log10(30/3).

4.3.3 Test Result of Power Spectral Density

Please refer to Appendix D of this report.

4.4 Conducted Band Edges and Spurious Emission Measurement

4.4.1 Limit of Conducted Band Edges and Spurious Emission

FCC §15.247 (d)

Maximum conducted (average) output power was used to determine compliance, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

4.4.2 Test Procedures

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
1. Turn on the EUT and connect it to measurement instrument.
2. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
3. Measure and record the results in the test report.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

4.4.3 Test Result of Conducted Band Edges

Please refer to Appendix E of this report.

4.4.4 Test Result of Conducted Spurious Emission

Please refer to Appendix F of this report.

4.5 Radiated Band Edges and Spurious Emission Measurement

4.5.1 Limit of Radiated Band Edges and Spurious Emission

FCC §15.247 (d)

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency (MHz)	Field Strength (microvolts/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

4.5.2 Test Procedures

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The measurement distance is 3 meter.
3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz ; VBW≥3×RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
   (3) For average measurement:
   VBW = 10 Hz, when duty cycle is no less than 98 percent.
   VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

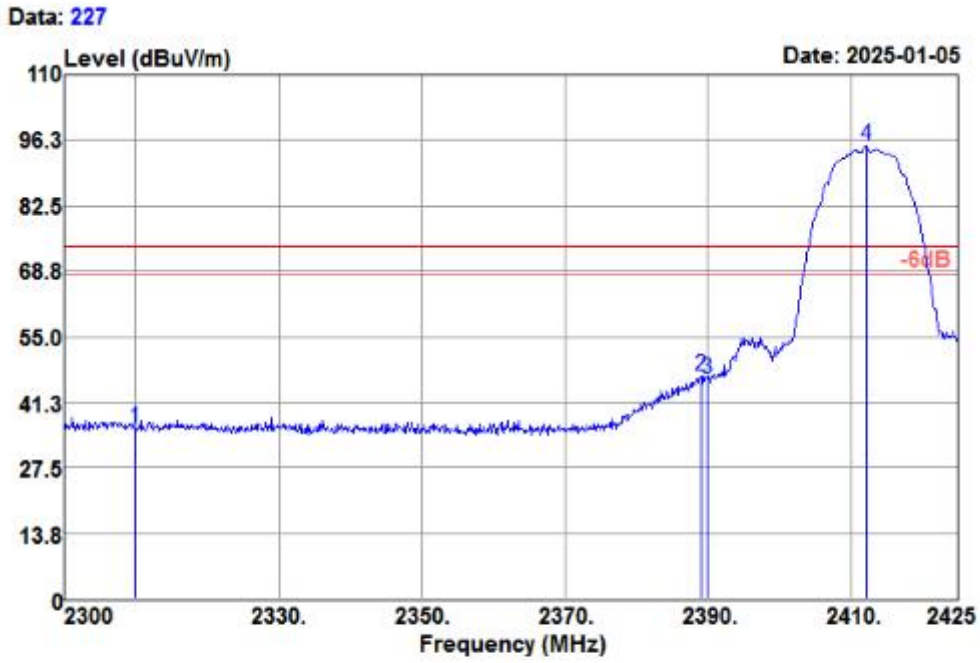
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.5.3 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

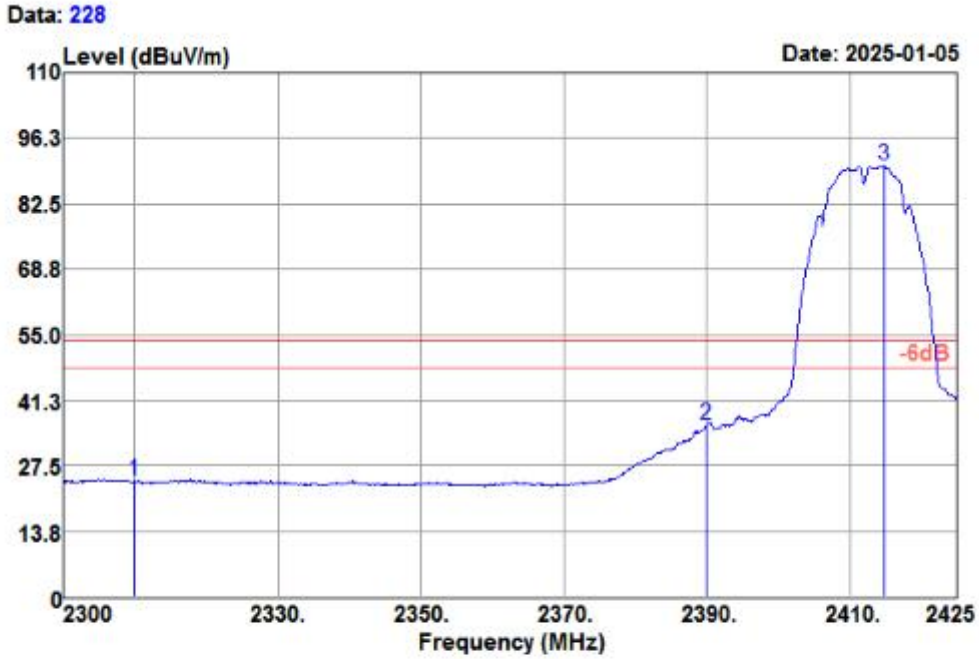
4.5.4 Test Result of Radiated Spurious at Band Edges

Test Mode :	802.11b CH01 (2412 MHz)	**Temperature :**	24℃
Test Engineer :	Jack Liu	**Relative Humidity :**	63%
Frequencey Range	2.3GHz~2.425GHz	**Polarization :**	Horizontal



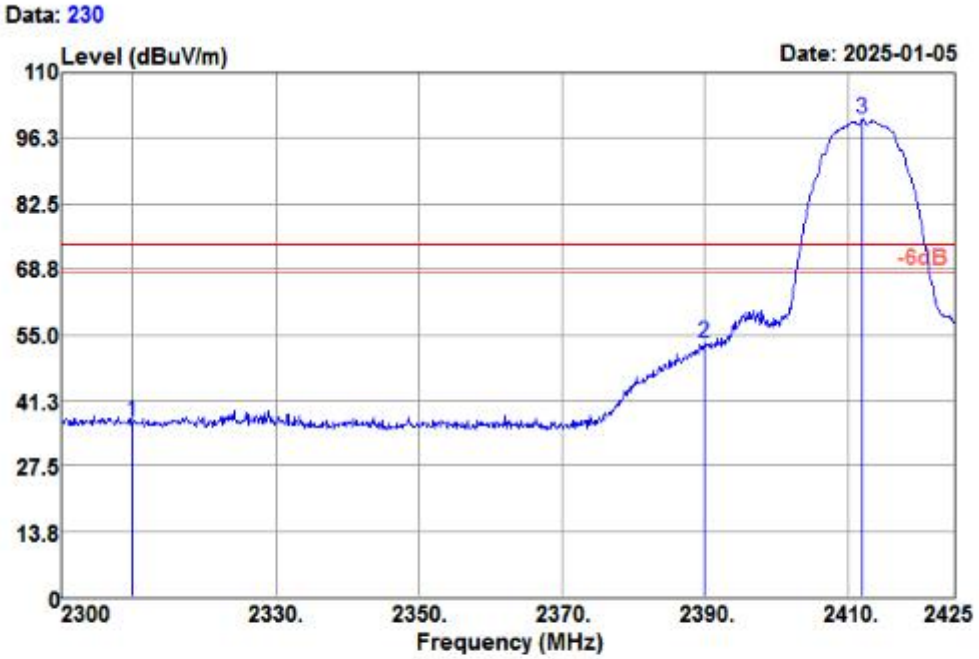
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	40.69	27.46	3.51	35.94	35.72	74.00	-38.28	Peak
2389.000	51.93	27.52	3.57	36.15	46.87	74.00	-27.13	Peak
2390.000	51.06	27.54	3.57	36.15	46.02	74.00	-27.98	Peak
2412.125	99.95	27.70	3.58	36.21	95.02	74.00	21.02	Peak

Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.3GHz~2.425GHz	Polarization :	Horizontal



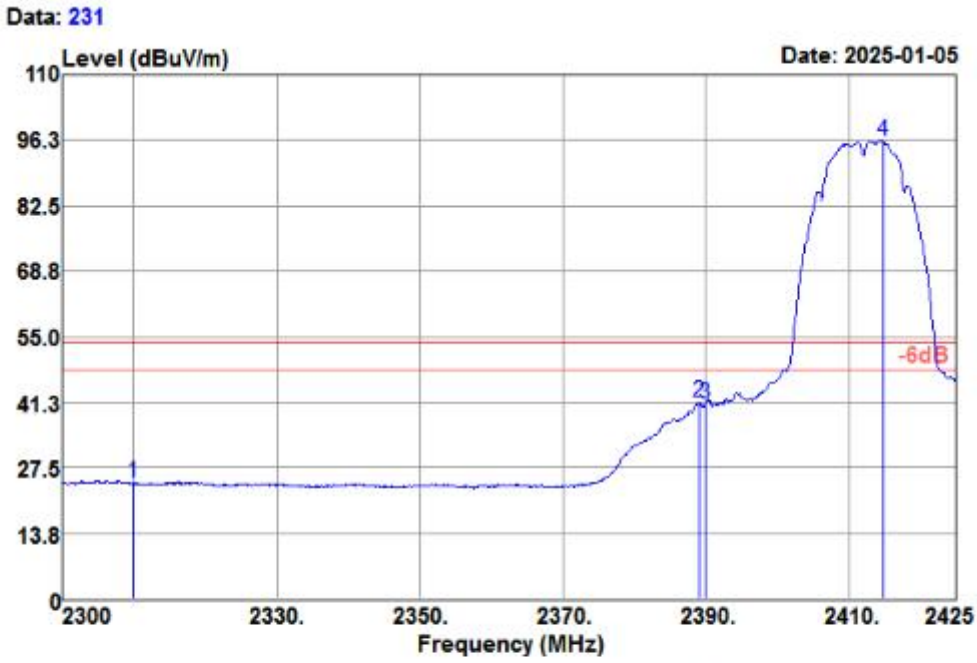
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	29.18	27.46	3.51	35.94	24.21	54.00	-29.79	Average
2390.000	41.12	27.54	3.57	36.15	36.08	54.00	-17.92	Average
2414.750	95.44	27.70	3.59	36.22	90.51	54.00	36.51	Average

Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.3GHz~2.425GHz	Polarization :	Vertical



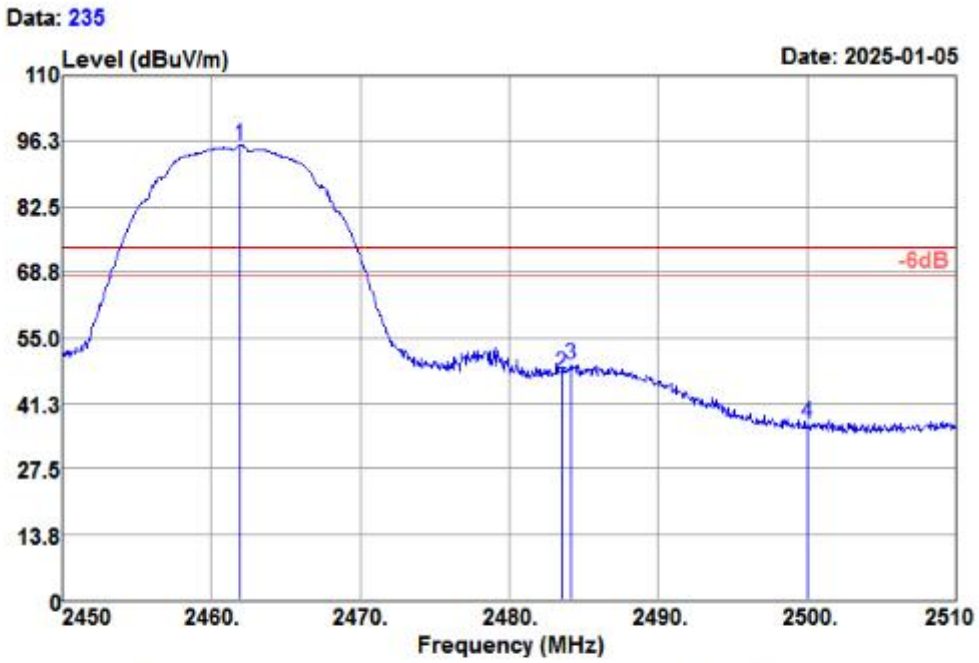
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	41.59	27.46	3.51	35.94	36.62	74.00	-37.38	Peak
2390.000	58.26	27.54	3.57	36.15	53.22	74.00	-20.78	Peak
2412.000	105.08	27.70	3.58	36.21	100.15	74.00	26.15	Peak

Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.3GHz~2.425GHz	Polarization :	Vertical



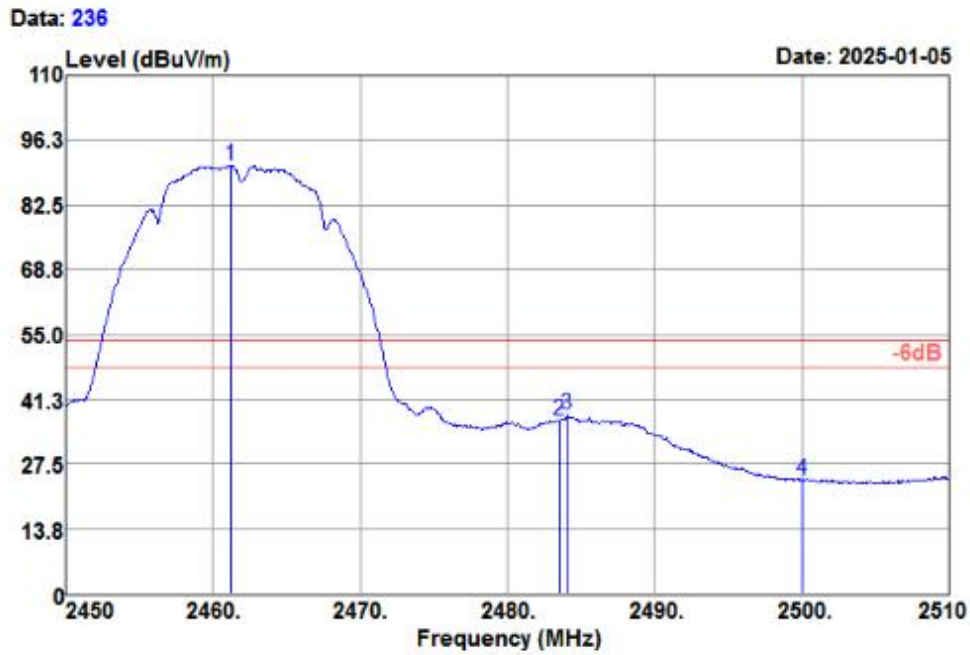
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	29.23	27.46	3.51	35.94	24.26	54.00	-29.74	Average
2389.000	46.25	27.52	3.57	36.15	41.19	54.00	-12.81	Average
2390.000	46.06	27.54	3.57	36.15	41.02	54.00	-12.98	Average
2414.750	101.00	27.70	3.59	36.22	96.07	54.00	42.07	Average

Test Mode :	802.11b CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.45GHz~2.51GHz	Polarization :	Horizontal



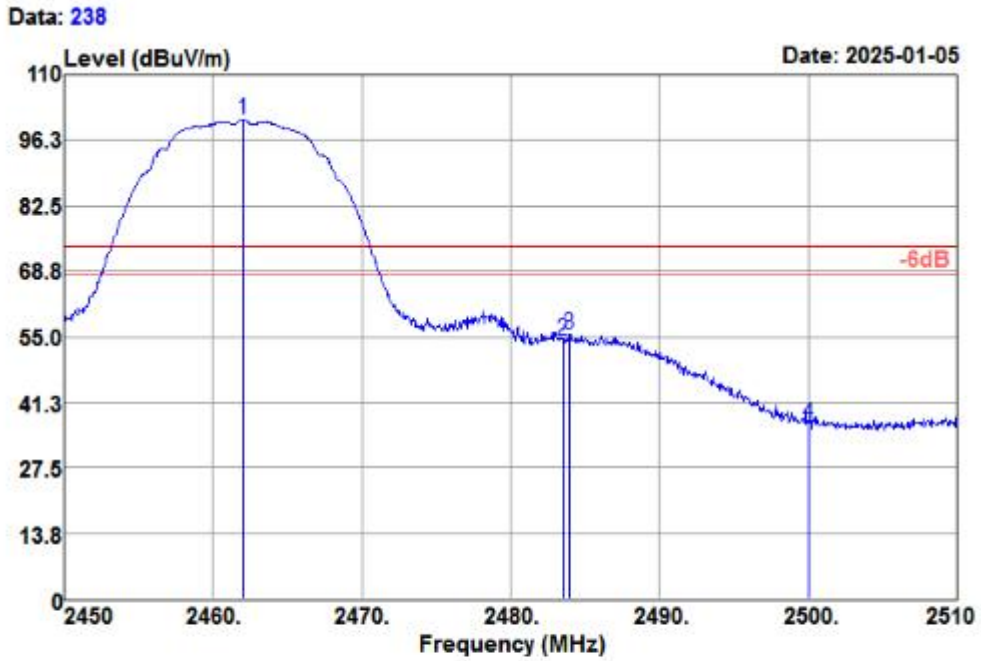
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2461.940	100.55	27.63	3.62	36.35	95.45	74.00	21.45	Peak
2483.500	52.66	27.50	3.64	36.41	47.39	74.00	-26.61	Peak
2484.140	54.72	27.50	3.64	36.41	49.45	74.00	-24.55	Peak
2500.000	42.41	27.40	3.65	36.45	37.01	74.00	-36.99	Peak

Test Mode :	802.11b CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.45GHz~2.51GHz	Polarization :	Horizontal



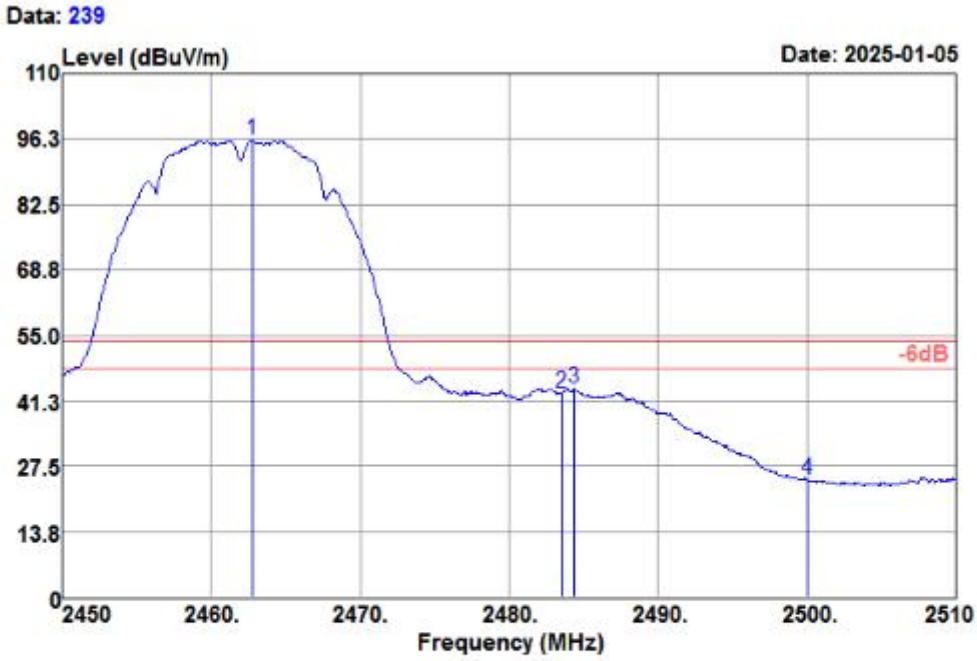
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2461.220	96.04	27.63	3.62	36.35	90.94	54.00	36.94	Average
2483.500	42.08	27.50	3.64	36.41	36.81	54.00	-17.19	Average
2484.080	43.18	27.50	3.64	36.41	37.91	54.00	-16.09	Average
2500.000	29.50	27.40	3.65	36.45	24.10	54.00	-29.90	Average

Test Mode :	802.11b CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.45GHz~2.51GHz	Polarization :	Vertical



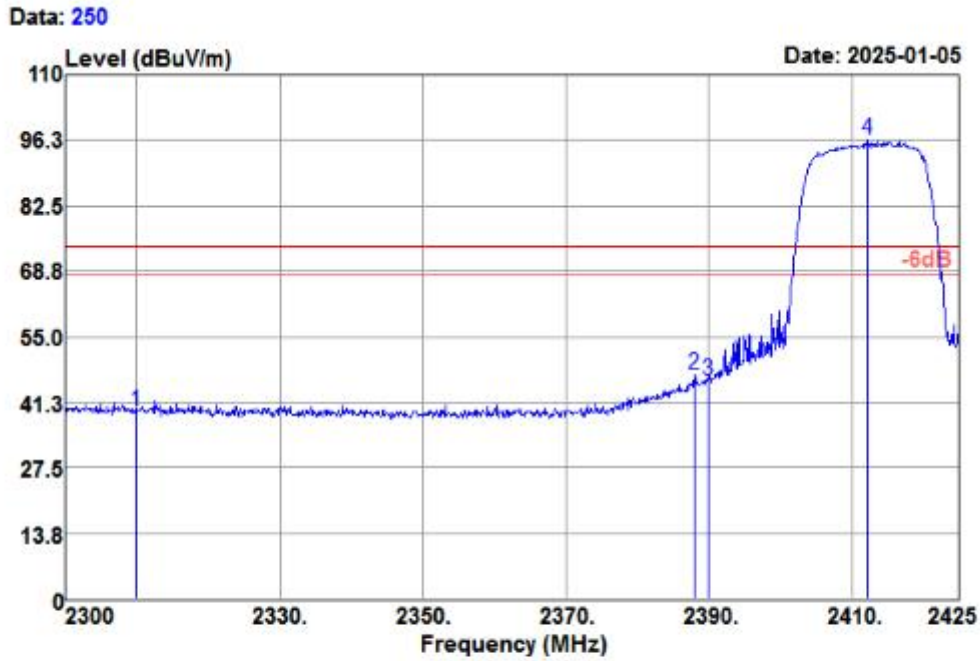
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.000	105.82	27.63	3.62	36.35	100.72	74.00	26.72	Peak
2483.500	59.34	27.50	3.64	36.41	54.07	74.00	-19.93	Peak
2483.900	60.92	27.50	3.64	36.41	55.65	74.00	-18.35	Peak
2500.000	42.12	27.40	3.65	36.45	36.72	74.00	-37.28	Peak

Test Mode :	802.11b CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.45GHz~2.51GHz	Polarization :	Vertical



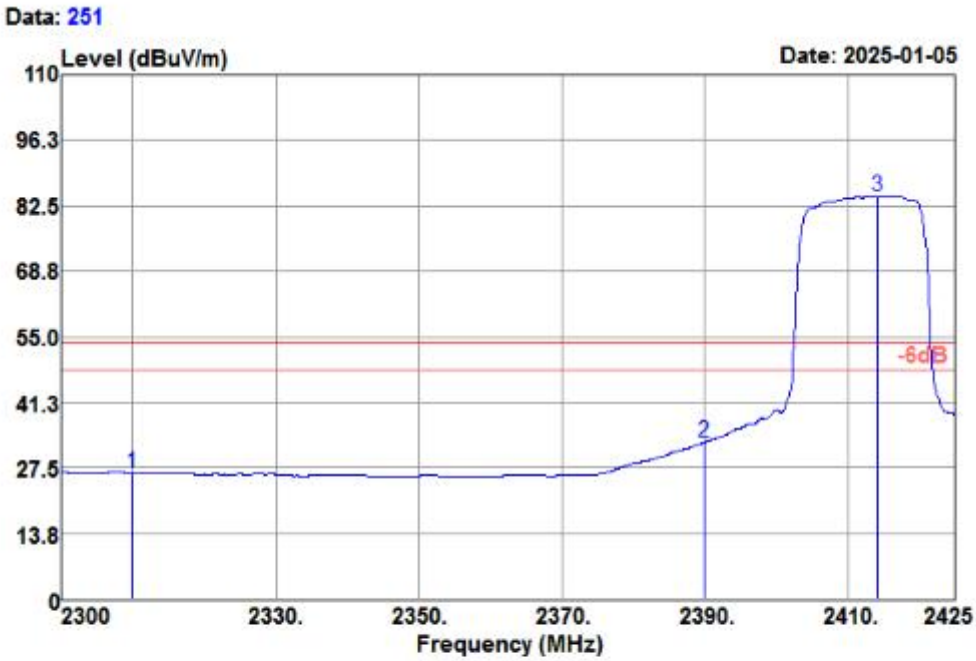
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.720	101.05	27.62	3.62	36.35	95.94	54.00	41.94	Average
2483.500	48.18	27.50	3.64	36.41	42.91	54.00	-11.09	Average
2484.380	49.01	27.49	3.64	36.41	43.73	54.00	-10.27	Average
2500.000	29.95	27.40	3.65	36.45	24.55	54.00	-29.45	Average

Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.3GHz~2.425GHz	Polarization :	Horizontal



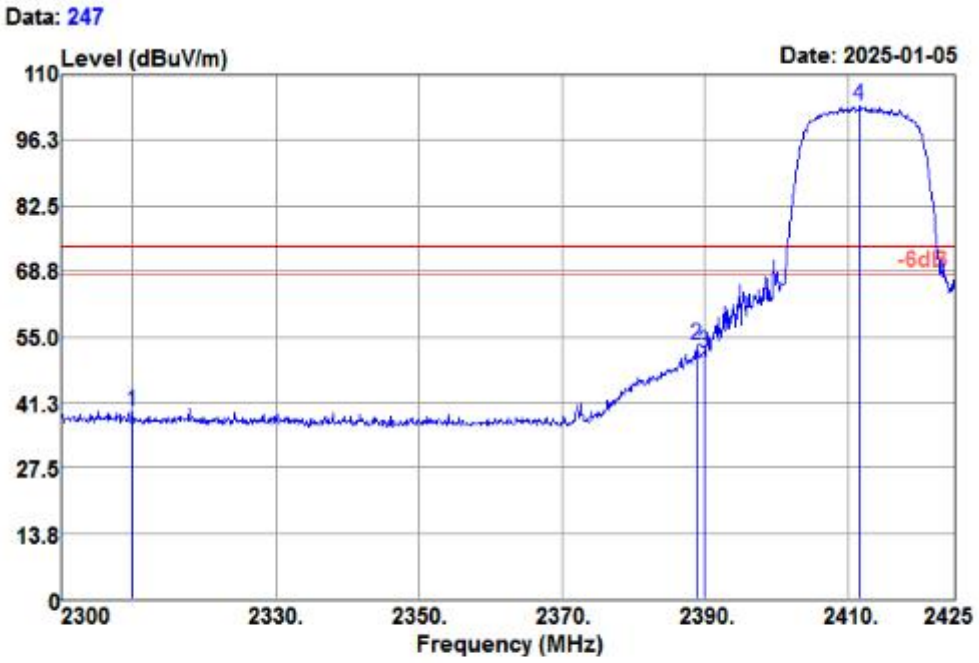
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	44.19	27.46	3.51	35.94	39.22	74.00	-34.78	Peak
2388.000	52.07	27.51	3.57	36.15	47.00	74.00	-27.00	Peak
2390.000	50.94	27.54	3.57	36.15	45.90	74.00	-28.10	Peak
2412.250	101.31	27.70	3.59	36.21	96.39	74.00	22.39	Peak

Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.3GHz~2.425GHz	Polarization :	Horizontal



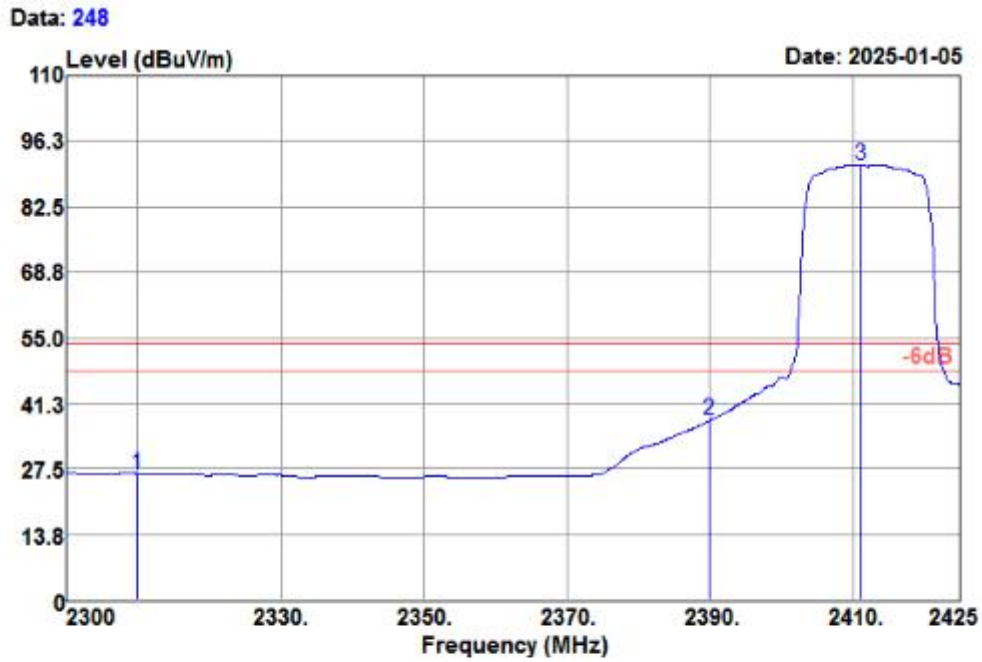
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	31.39	27.46	3.51	35.94	26.42	54.00	-27.58	Average
2390.000	37.89	27.54	3.57	36.15	32.85	54.00	-21.15	Average
2414.250	89.46	27.70	3.59	36.22	84.53	54.00	30.53	Average

Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.3GHz~2.425GHz	Polarization :	Vertical



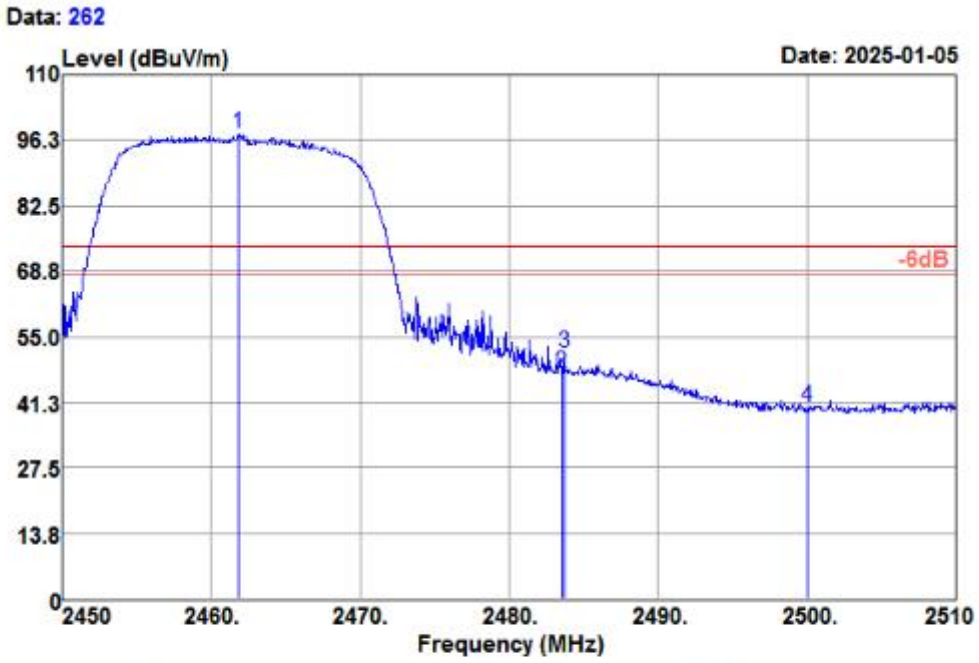
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	44.21	27.46	3.51	35.94	39.24	74.00	-34.76	Peak
2388.875	58.45	27.52	3.57	36.15	53.39	74.00	-20.61	Peak
2390.000	56.64	27.54	3.57	36.15	51.60	74.00	-22.40	Peak
2411.625	108.49	27.70	3.58	36.21	103.56	74.00	29.56	Peak

Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.3GHz~2.425GHz	Polarization :	Vertical



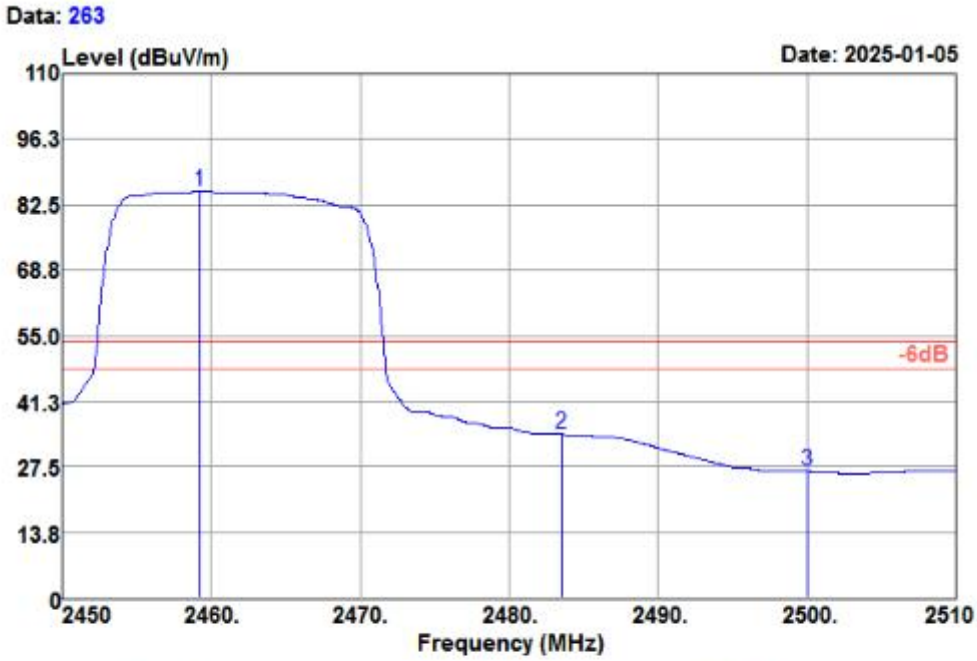
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	31.39	27.46	3.51	35.94	26.42	54.00	-27.58	Average
2390.000	42.64	27.54	3.57	36.15	37.60	54.00	-16.40	Average
2411.125	96.27	27.70	3.58	36.21	91.34	54.00	37.34	Average

Test Mode :	802.11g CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.45GHz~2.51GHz	Polarization :	Horizontal



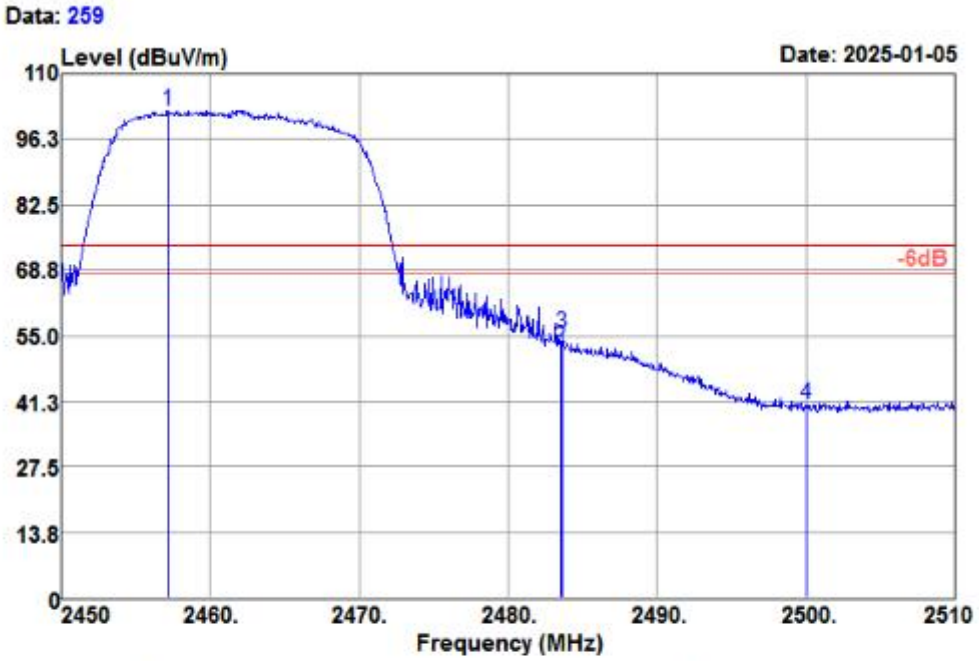
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2461.820	102.78	27.63	3.62	36.35	97.68	74.00	23.68	Peak
2483.500	52.67	27.50	3.64	36.41	47.40	74.00	-26.60	Peak
2483.720	57.00	27.50	3.64	36.41	51.73	74.00	-22.27	Peak
2500.000	45.67	27.40	3.65	36.45	40.27	74.00	-33.73	Peak

Test Mode :	802.11g CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.45GHz~2.51GHz	Polarization :	Horizontal



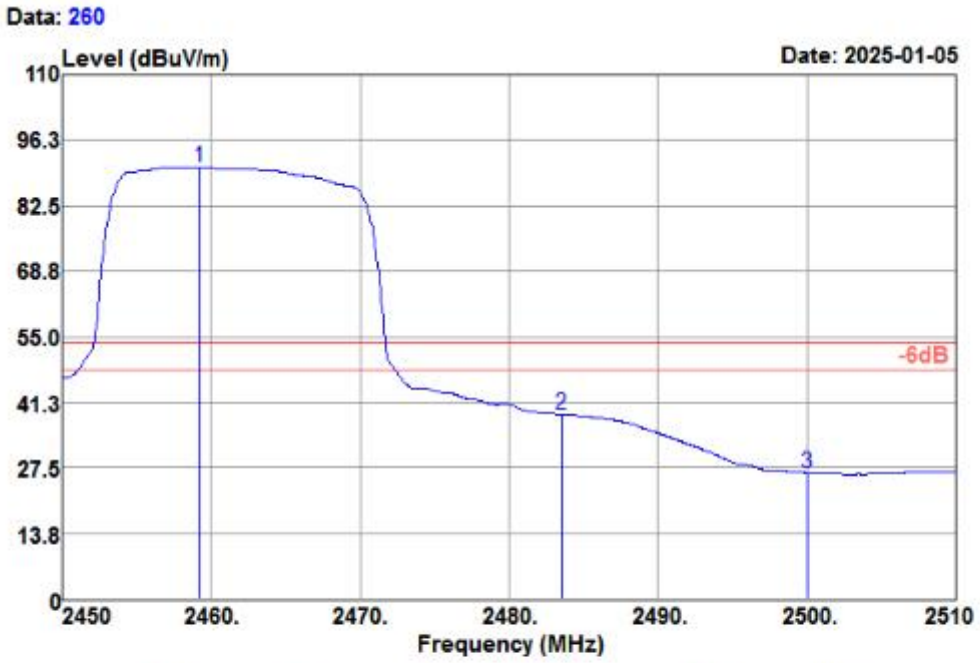
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2459.240	90.33	27.64	3.62	36.34	85.25	54.00	31.25	Average
2483.500	39.53	27.50	3.64	36.41	34.26	54.00	-19.74	Average
2500.000	31.90	27.40	3.65	36.45	26.50	54.00	-27.50	Average

Test Mode :	802.11g CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.45GHz~2.51GHz	Polarization :	Vertical



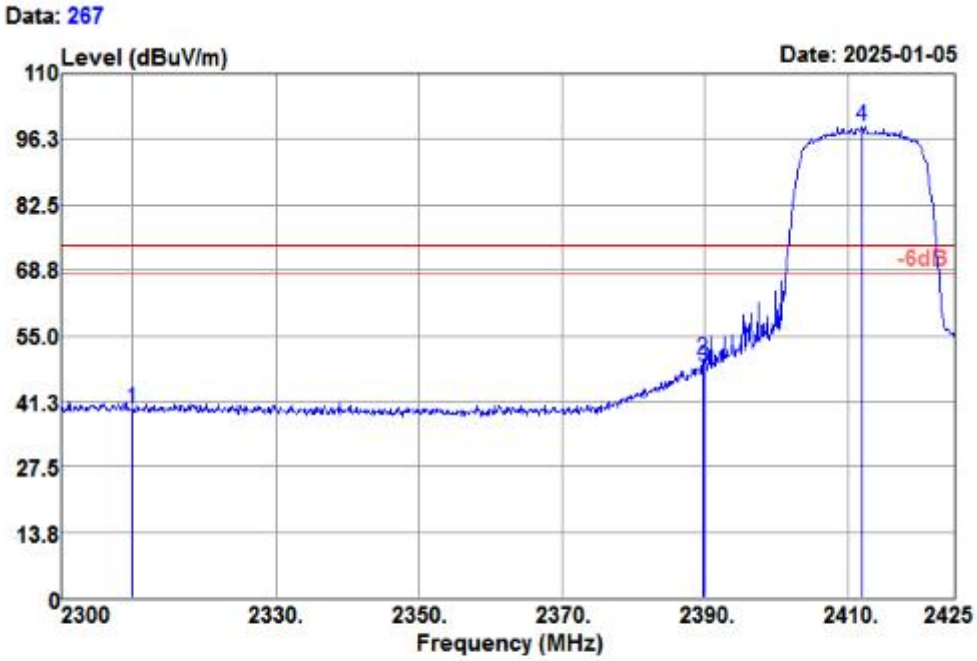
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2457.140	107.42	27.66	3.62	36.33	102.37	74.00	28.37	Peak
2483.500	57.92	27.50	3.64	36.41	52.65	74.00	-21.35	Peak
2483.600	60.72	27.50	3.64	36.41	55.45	74.00	-18.55	Peak
2500.000	45.82	27.40	3.65	36.45	40.42	74.00	-33.58	Peak

Test Mode :	802.11g CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.45GHz~2.51GHz	Polarization :	Vertical



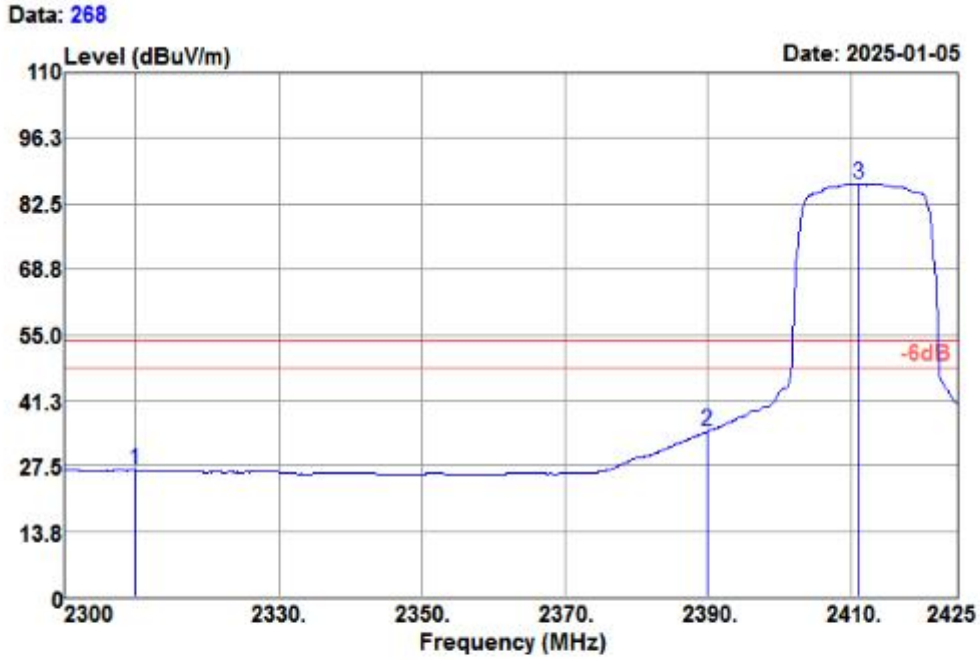
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2459.240	95.70	27.64	3.62	36.34	90.62	54.00	36.62	Average
2483.500	44.02	27.50	3.64	36.41	38.75	54.00	-15.25	Average
2500.000	31.83	27.40	3.65	36.45	26.43	54.00	-27.57	Average

Test Mode :	802.11nHT20 CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.3GHz~2.425GHz	Polarization :	Horizontal



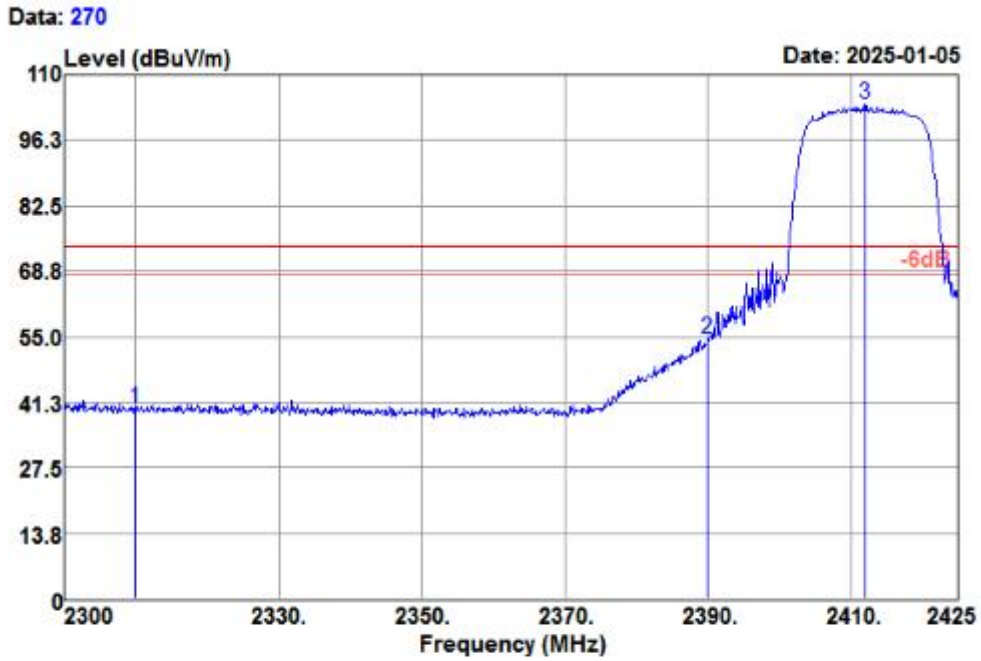
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	44.63	27.46	3.51	35.94	39.66	74.00	-34.34	Peak
2389.750	55.16	27.54	3.57	36.15	50.12	74.00	-23.88	Peak
2390.000	53.36	27.54	3.57	36.15	48.32	74.00	-25.68	Peak
2412.000	103.84	27.70	3.58	36.21	98.91	74.00	24.91	Peak

Test Mode :	802.11nHT20 CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.3GHz~2.425GHz	Polarization :	Horizontal



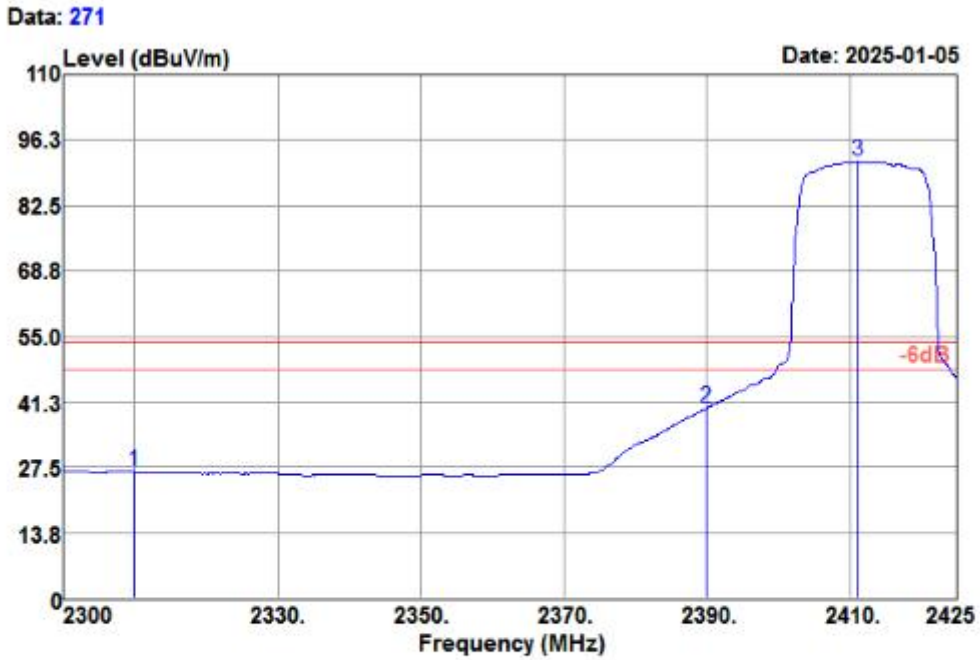
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	31.43	27.46	3.51	35.94	26.46	54.00	-27.54	Average
2390.000	39.75	27.54	3.57	36.15	34.71	54.00	-19.29	Average
2411.250	91.69	27.70	3.58	36.21	86.76	54.00	32.76	Average

Test Mode :	802.11nHT20 CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.3GHz~2.425GHz	Polarization :	Vertical



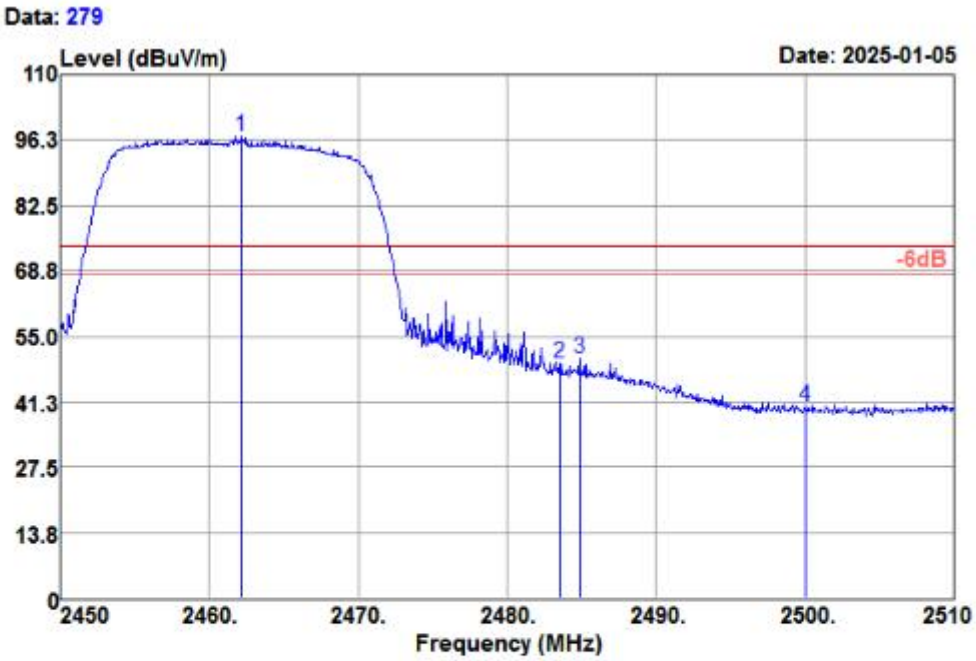
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	45.02	27.46	3.51	35.94	40.05	74.00	-33.95	Peak
2390.000	59.53	27.54	3.57	36.15	54.49	74.00	-19.51	Peak
2412.000	108.76	27.70	3.58	36.21	103.83	74.00	29.83	Peak

Test Mode :	802.11nHT20 CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.3GHz~2.425GHz	Polarization :	Vertical



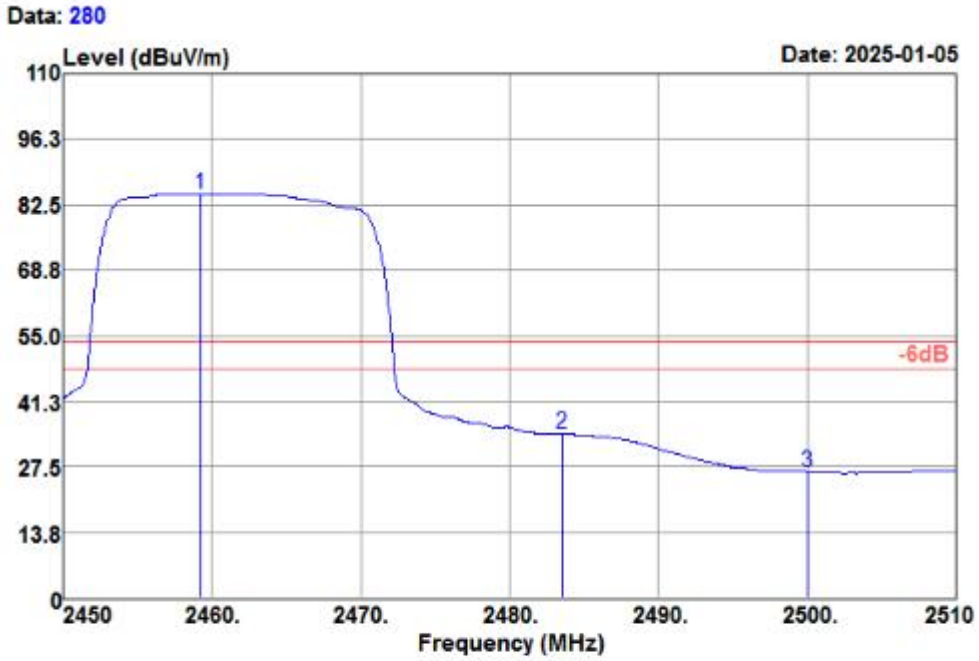
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	31.44	27.46	3.51	35.94	26.47	54.00	-27.53	Average
2390.000	45.00	27.54	3.57	36.15	39.96	54.00	-14.04	Average
2411.250	96.63	27.70	3.58	36.21	91.70	54.00	37.70	Average

Test Mode :	802.11nHT20 CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.45GHz~2.51GHz	Polarization :	Horizontal



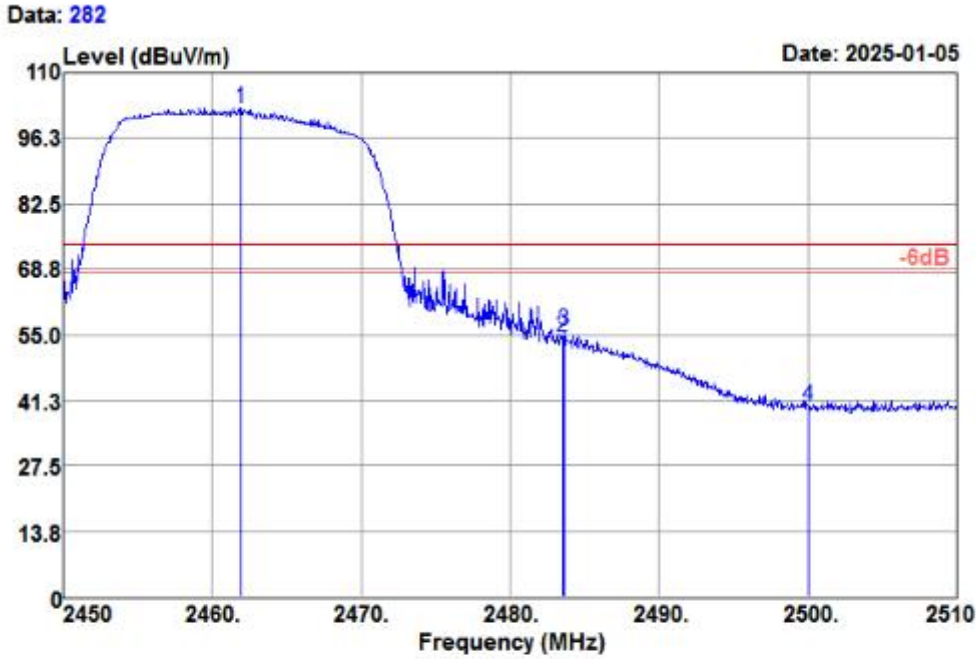
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.180	102.04	27.63	3.62	36.35	96.94	74.00	22.94	Peak
2483.500	54.61	27.50	3.64	36.41	49.34	74.00	-24.66	Peak
2484.860	55.73	27.49	3.64	36.41	50.45	74.00	-23.55	Peak
2500.000	45.76	27.40	3.65	36.45	40.36	74.00	-33.64	Peak

Test Mode :	802.11nHT20 CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.45GHz~2.51GHz	Polarization :	Horizontal



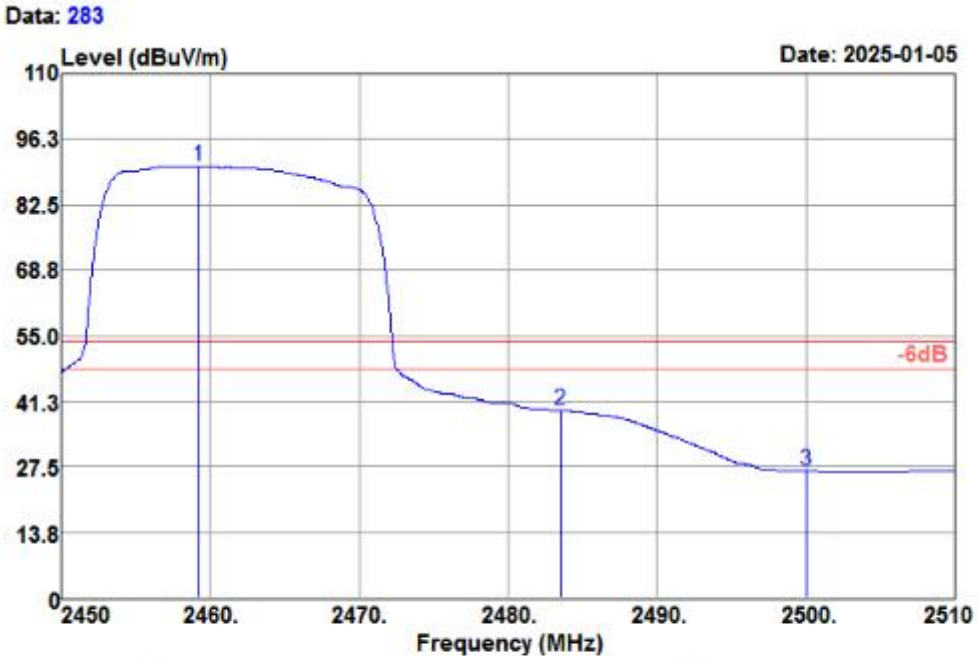
Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2459.240	89.93	27.64	3.62	36.34	84.85	54.00	30.85	Average
2483.500	39.62	27.50	3.64	36.41	34.35	54.00	-19.65	Average
2500.000	31.85	27.40	3.65	36.45	26.45	54.00	-27.55	Average

Test Mode :	802.11nHT20 CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.45GHz~2.51GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2461.940	107.81	27.63	3.62	36.35	102.71	74.00	28.71	Peak
2483.500	59.65	27.50	3.64	36.41	54.38	74.00	-19.62	Peak
2483.600	61.00	27.50	3.64	36.41	55.73	74.00	-18.27	Peak
2500.000	45.30	27.40	3.65	36.45	39.90	74.00	-34.10	Peak

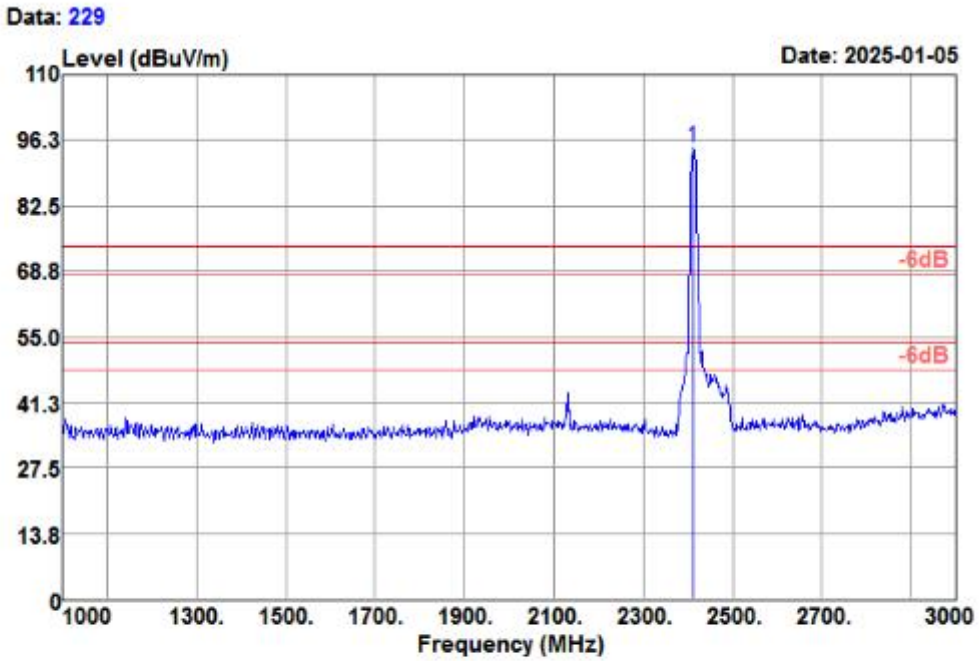
Test Mode :	802.11nHT20 CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	2.45GHz~2.51GHz	Polarization :	Vertical



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2459.240	95.68	27.64	3.62	36.34	90.60	54.00	36.60	Average
2483.500	44.58	27.50	3.64	36.41	39.31	54.00	-14.69	Average
2500.000	31.94	27.40	3.65	36.45	26.54	54.00	-27.46	Average

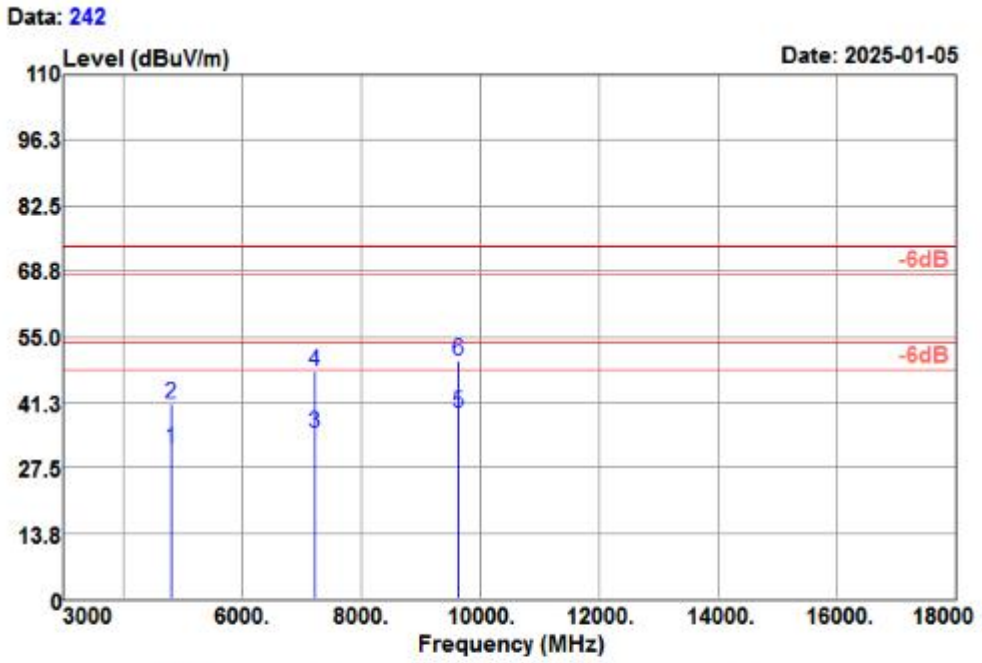
4.5.5 Test Result of Radiated Spurious Emission (1GHz ~ 10th Harmonic)

Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2412.000	99.71	27.70	3.58	36.21	94.78	74.00	20.78	Peak

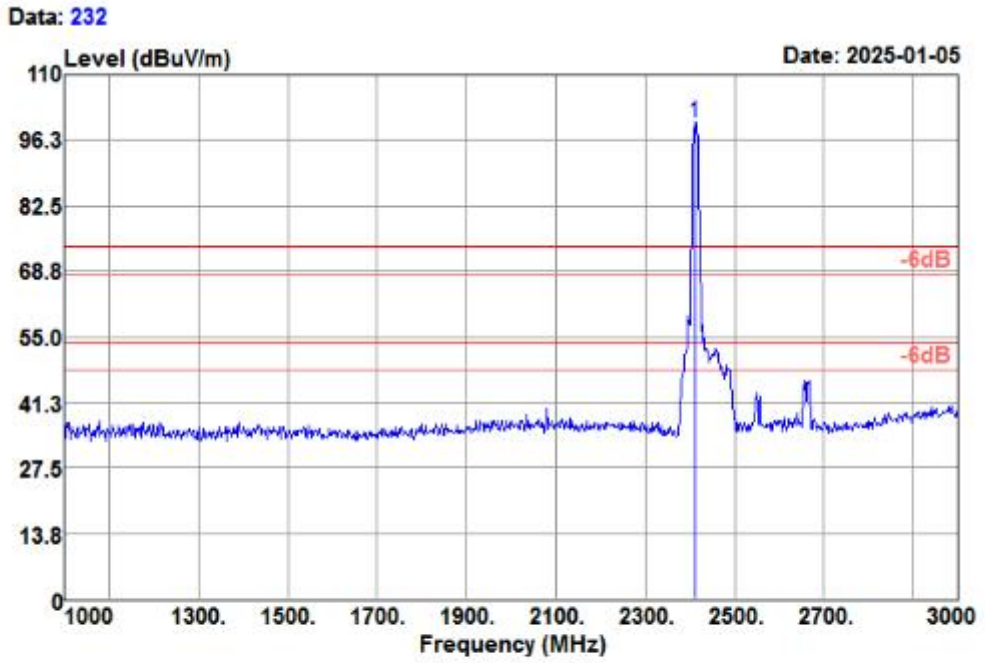
Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	29.66	32.54	5.37	36.12	31.45	54.00	-22.55	Average
4824.000	39.21	32.54	5.37	36.12	41.00	74.00	-33.00	Peak
7236.000	26.10	36.46	6.49	34.37	34.68	54.00	-19.32	Average
7236.000	39.18	36.46	6.49	34.37	47.76	74.00	-26.24	Peak
9648.000	27.43	38.42	7.35	34.24	38.96	54.00	-15.04	Average
9648.000	38.47	38.42	7.35	34.24	50.00	74.00	-24.00	Peak

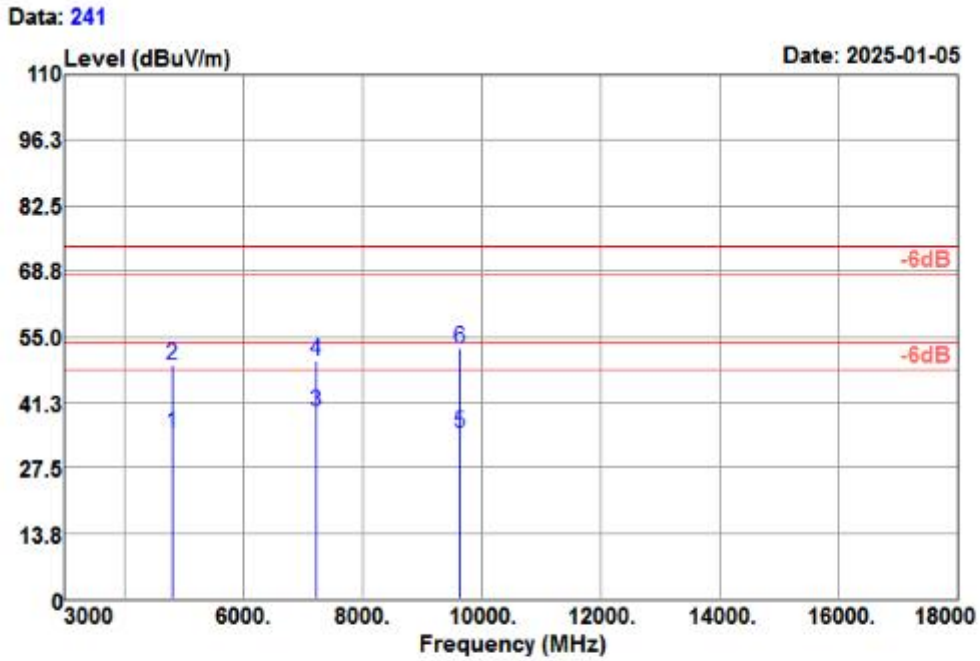
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11b CH01 (2412 MHz)	**Temperature :**	24℃
Test Engineer :	Jack Liu	**Relative Humidity :**	63%
Frequencey Range	1GHz~3GHz	**Polarization :**	Vertical



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2412.000	104.95	27.70	3.58	36.21	100.02	74.00	26.02	Peak

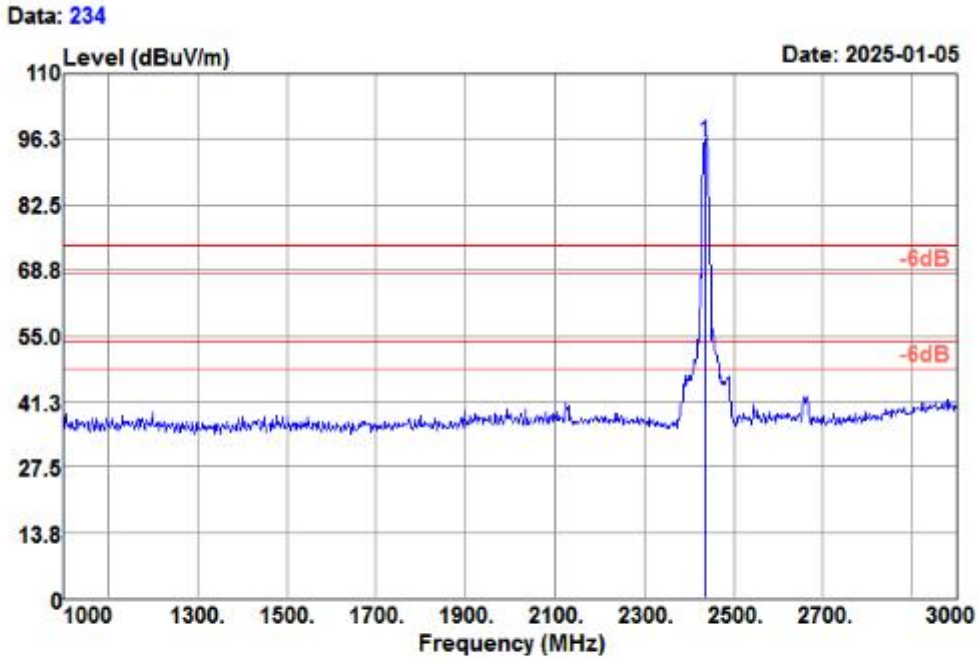
Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	32.80	32.54	5.37	36.12	34.59	54.00	-19.41	Average
4824.000	47.21	32.54	5.37	36.12	49.00	74.00	-25.00	Peak
7236.000	30.75	36.46	6.49	34.37	39.33	54.00	-14.67	Average
7236.000	41.28	36.46	6.49	34.37	49.86	74.00	-24.14	Peak
9648.000	23.24	38.42	7.35	34.24	34.77	54.00	-19.23	Average
9648.000	41.08	38.42	7.35	34.24	52.61	74.00	-21.39	Peak

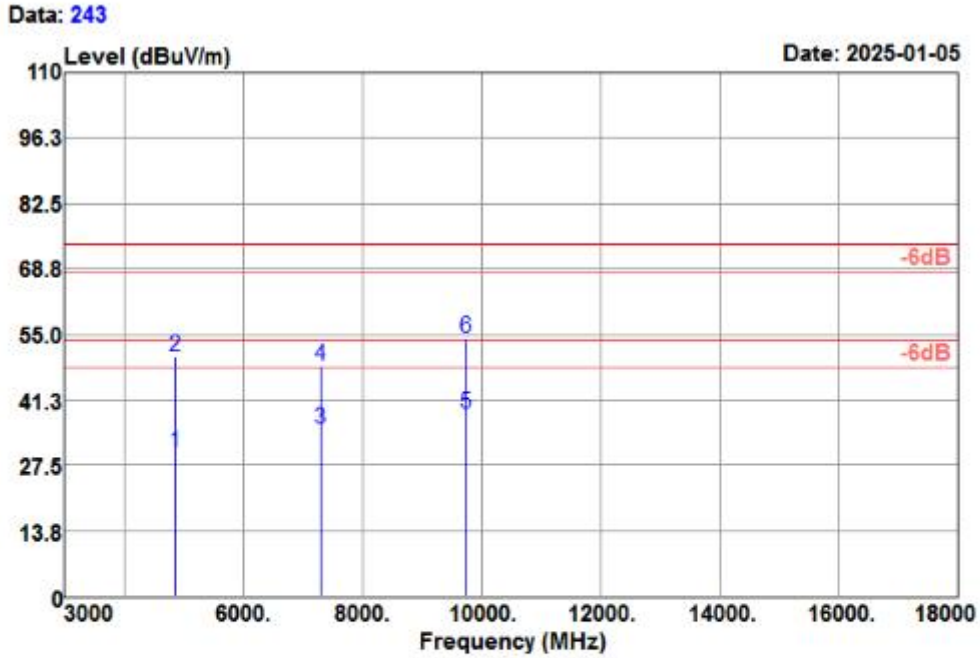
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11b CH06 (2437 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2437.000	100.86	27.70	3.60	36.28	95.88	74.00	21.88	Peak

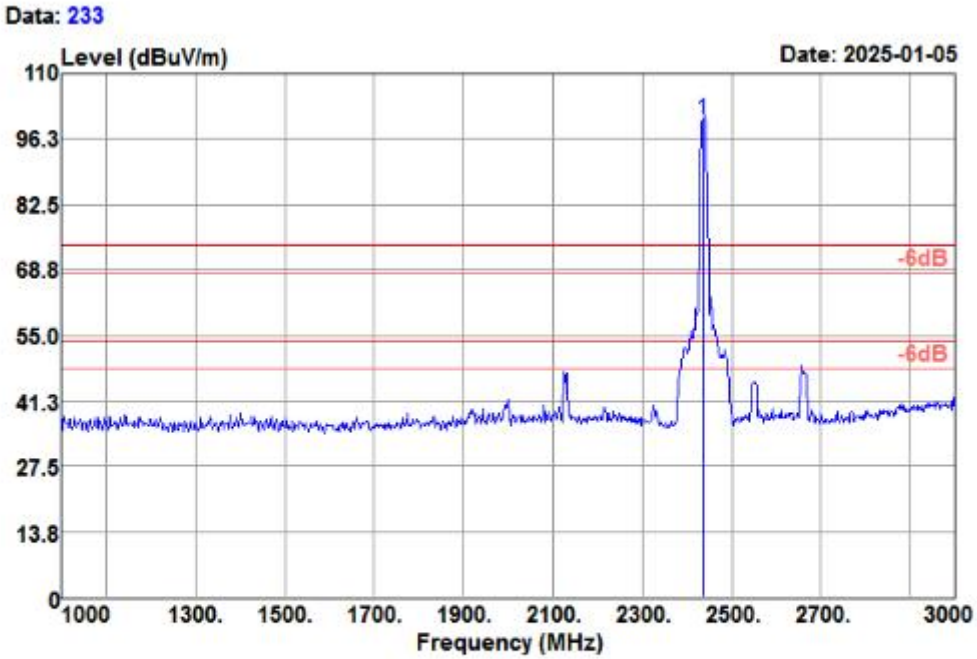
Test Mode :	802.11b CH06 (2437 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	28.22	32.75	5.41	36.11	30.27	54.00	-23.73	Average
4874.000	48.29	32.75	5.41	36.11	50.34	74.00	-23.66	Peak
7311.000	26.48	36.54	6.52	34.39	35.15	54.00	-18.85	Average
7311.000	39.70	36.54	6.52	34.39	48.37	74.00	-25.63	Peak
9748.000	27.13	38.30	7.38	34.40	38.41	54.00	-15.59	Average
9748.000	43.02	38.30	7.38	34.40	54.30	74.00	-19.70	Peak

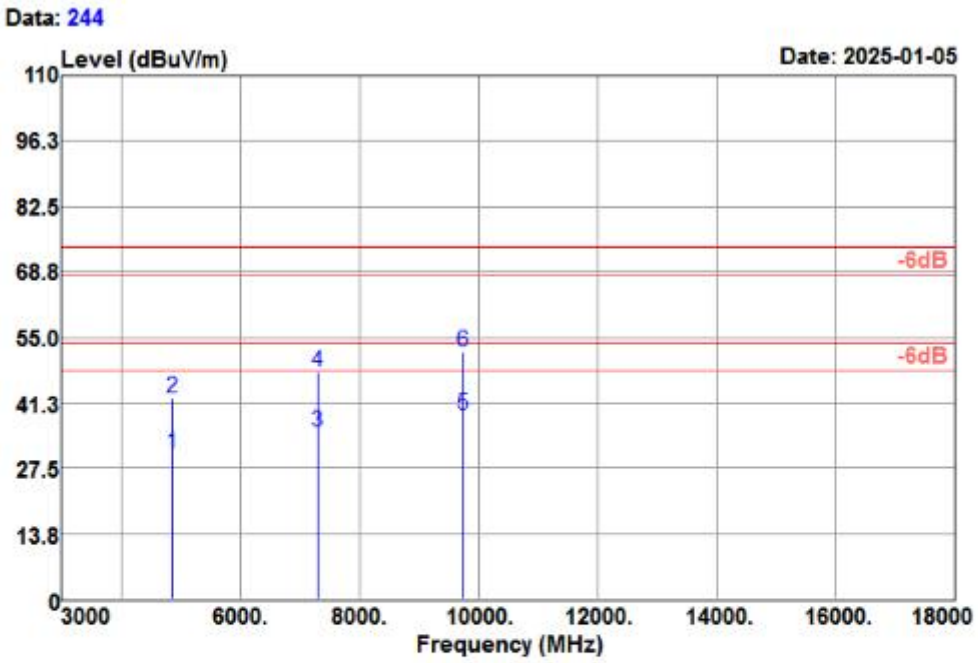
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11b CH06 (2437 MHz)	**Temperature :**	24℃
Test Engineer :	Jack Liu	**Relative Humidity :**	63%
Frequencey Range	1GHz~3GHz	**Polarization :**	Vertical



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2437.000	105.38	27.70	3.60	36.28	100.40	74.00	26.40	Peak

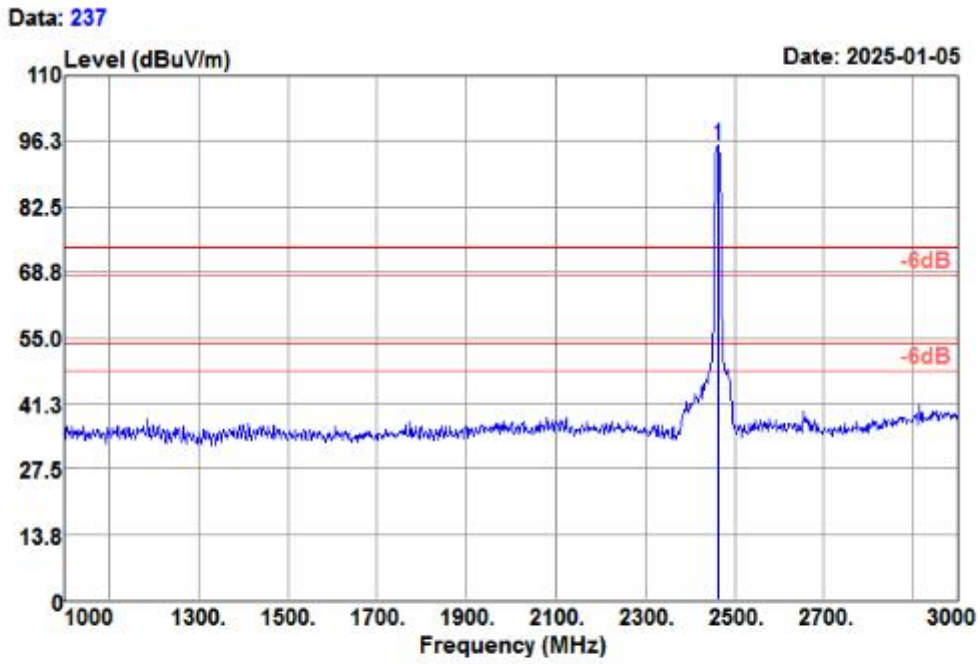
Test Mode :	802.11b CH06 (2437 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	28.49	32.75	5.41	36.11	30.54	54.00	-23.46	Average
4874.000	40.20	32.75	5.41	36.11	42.25	74.00	-31.75	Peak
7311.000	26.27	36.54	6.52	34.39	34.94	54.00	-19.06	Average
7311.000	39.17	36.54	6.52	34.39	47.84	74.00	-26.16	Peak
9748.000	27.35	38.30	7.38	34.40	38.63	54.00	-15.37	Average
9748.000	40.65	38.30	7.38	34.40	51.93	74.00	-22.07	Peak

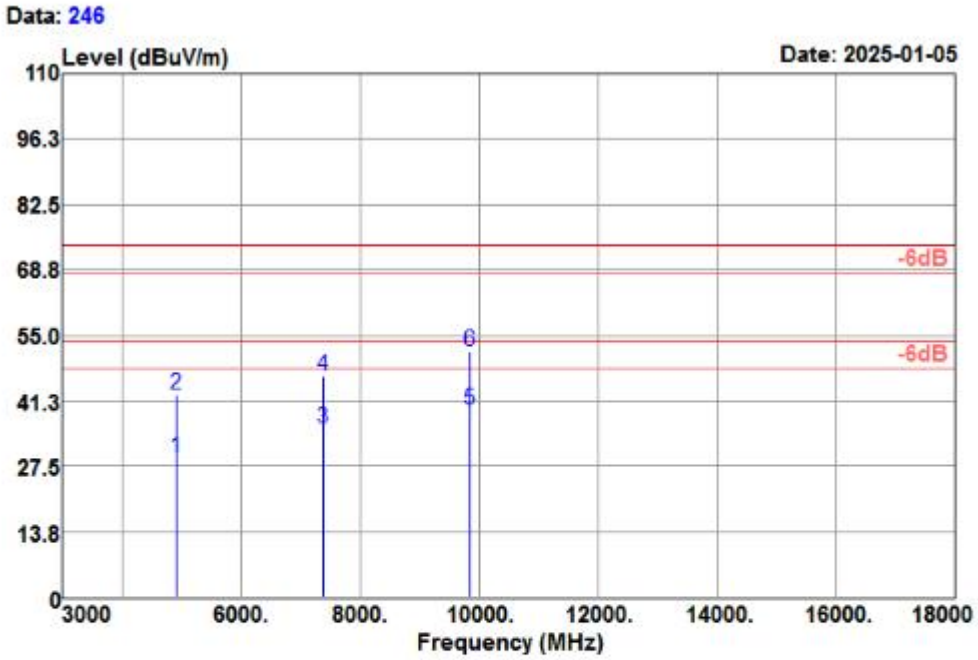
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11b CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Horizontal



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2462.000	100.61	27.63	3.62	36.35	95.51	74.00	21.51	Peak

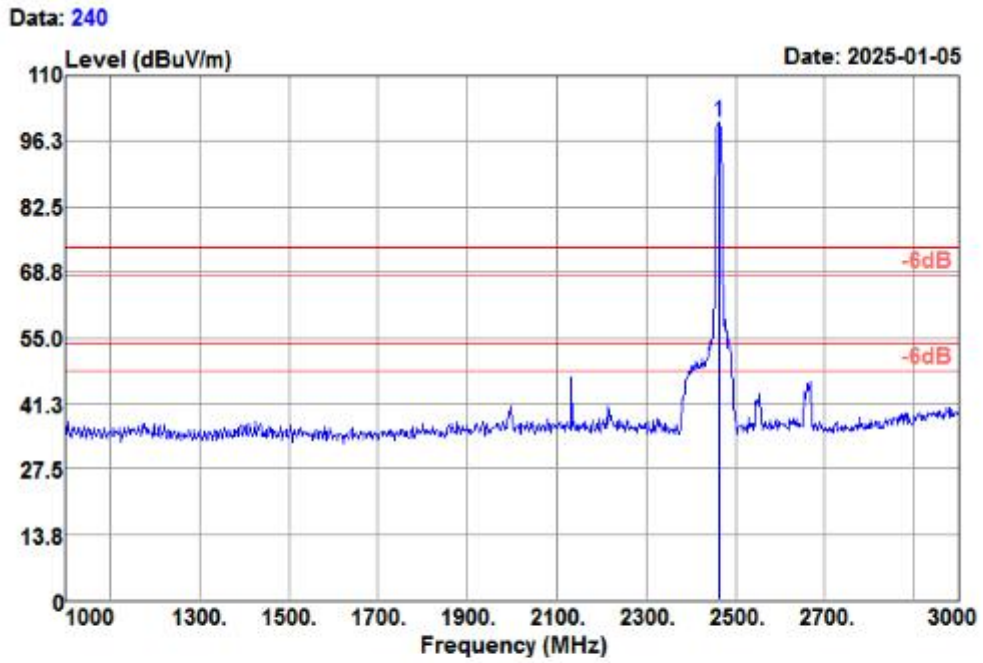
Test Mode :	802.11b CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	27.17	32.70	5.45	36.11	29.21	54.00	-24.79	Average
4924.000	40.32	32.70	5.45	36.11	42.36	74.00	-31.64	Peak
7386.000	26.85	36.48	6.54	34.42	35.45	54.00	-18.55	Average
7386.000	37.82	36.48	6.54	34.42	46.42	74.00	-27.58	Peak
9848.000	28.15	38.29	7.41	34.56	39.29	54.00	-14.71	Average
9848.000	40.33	38.29	7.41	34.56	51.47	74.00	-22.53	Peak

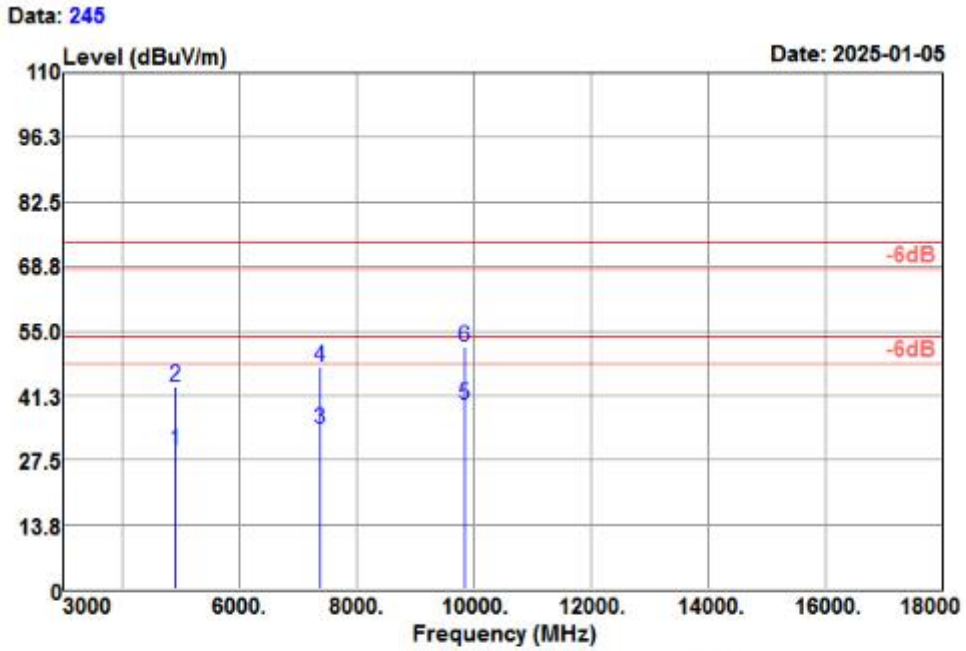
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11b CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.000	105.41	27.63	3.62	36.35	100.31	74.00	26.31	Peak

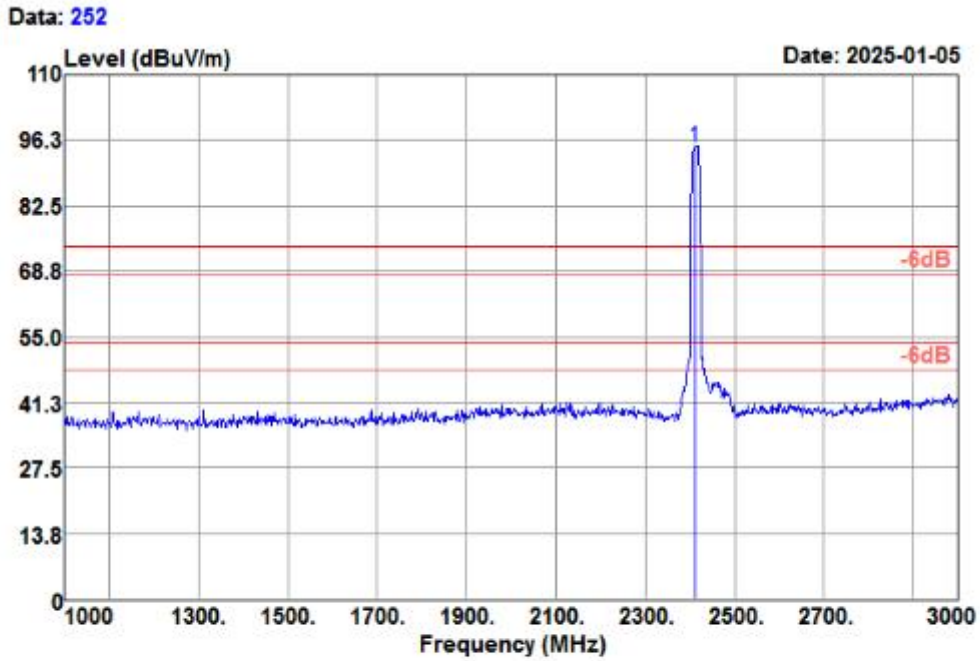
Test Mode :	802.11b CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	27.43	32.70	5.45	36.11	29.47	54.00	-24.53	Average
4924.000	41.23	32.70	5.45	36.11	43.27	74.00	-30.73	Peak
7386.000	25.45	36.48	6.54	34.42	34.05	54.00	-19.95	Average
7386.000	38.65	36.48	6.54	34.42	47.25	74.00	-26.75	Peak
9848.000	28.28	38.29	7.41	34.56	39.42	54.00	-14.58	Average
9848.000	40.43	38.29	7.41	34.56	51.57	74.00	-22.43	Peak

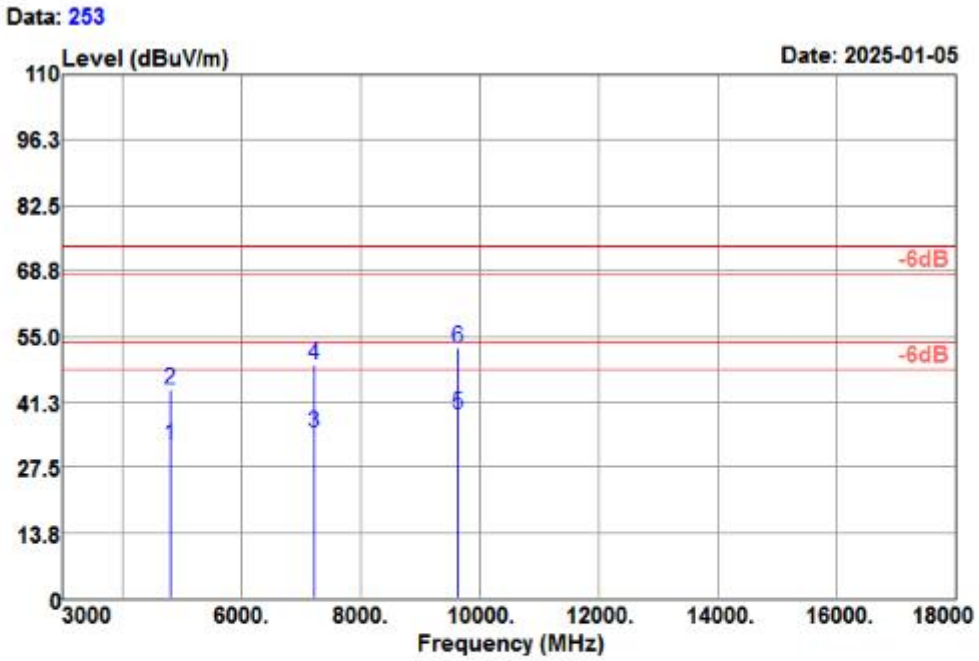
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2412.000	99.75	27.70	3.58	36.21	94.82	74.00	20.82	Peak

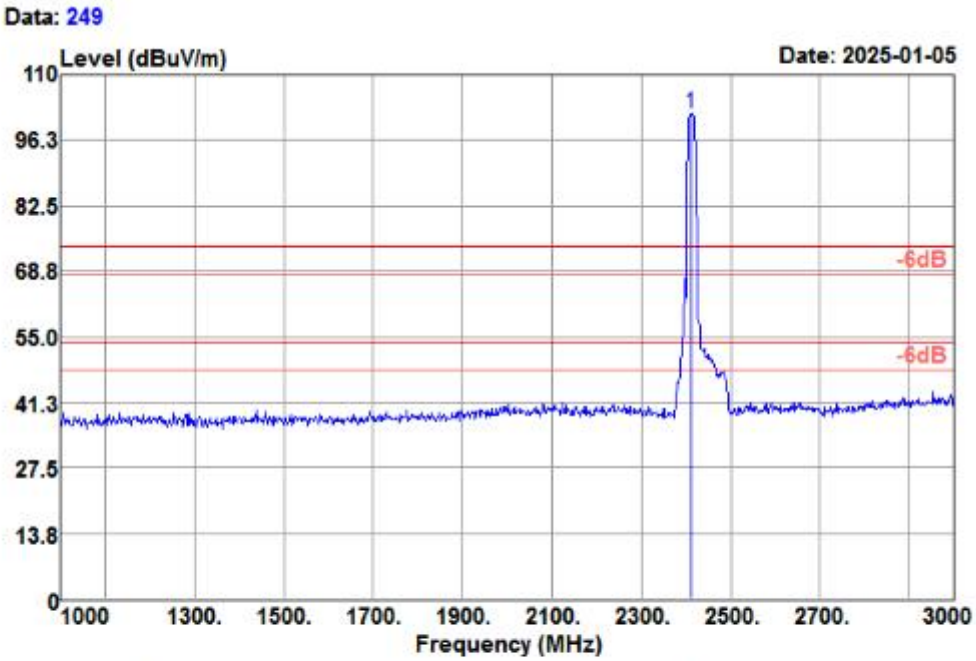
Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	30.49	32.54	5.37	36.12	32.28	54.00	-21.72	Average
4824.000	42.12	32.54	5.37	36.12	43.91	74.00	-30.09	Peak
7236.000	26.07	36.46	6.49	34.37	34.65	54.00	-19.35	Average
7236.000	40.53	36.46	6.49	34.37	49.11	74.00	-24.89	Peak
9648.000	27.04	38.42	7.35	34.24	38.57	54.00	-15.43	Average
9648.000	41.08	38.42	7.35	34.24	52.61	74.00	-21.39	Peak

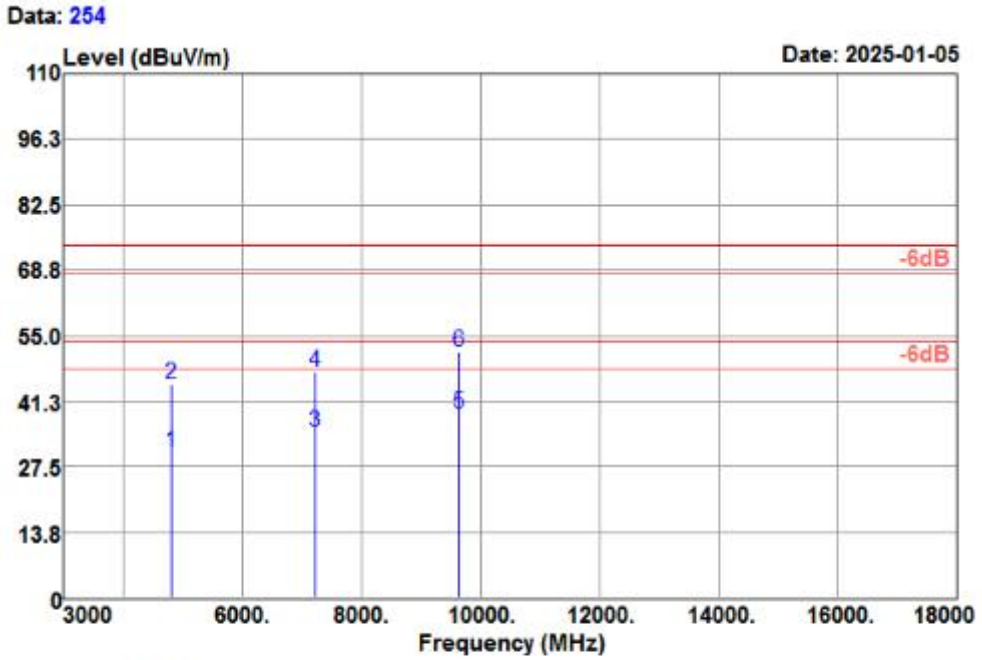
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Vertical



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2412.000	106.87	27.70	3.58	36.21	101.94	74.00	27.94	Peak

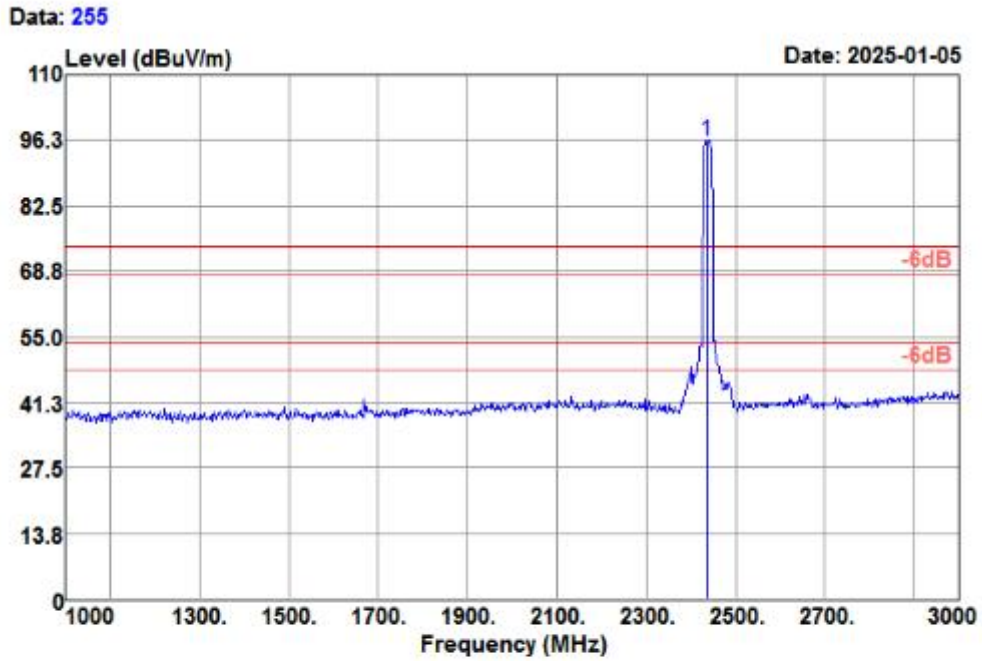
Test Mode :	802.11g CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	28.67	32.54	5.37	36.12	30.46	54.00	-23.54	Average
4824.000	43.01	32.54	5.37	36.12	44.80	74.00	-29.20	Peak
7236.000	26.11	36.46	6.49	34.37	34.69	54.00	-19.31	Average
7236.000	38.94	36.46	6.49	34.37	47.52	74.00	-26.48	Peak
9648.000	27.08	38.42	7.35	34.24	38.61	54.00	-15.39	Average
9648.000	40.22	38.42	7.35	34.24	51.75	74.00	-22.25	Peak

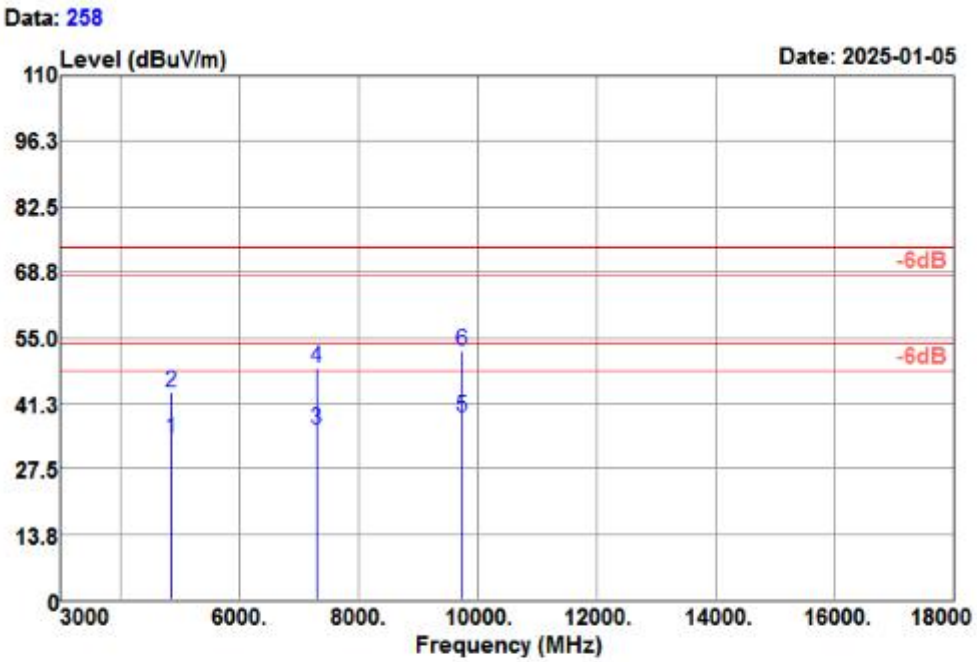
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11g CH06 (2437 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2437.000	101.09	27.70	3.60	36.28	96.11	74.00	22.11	Peak

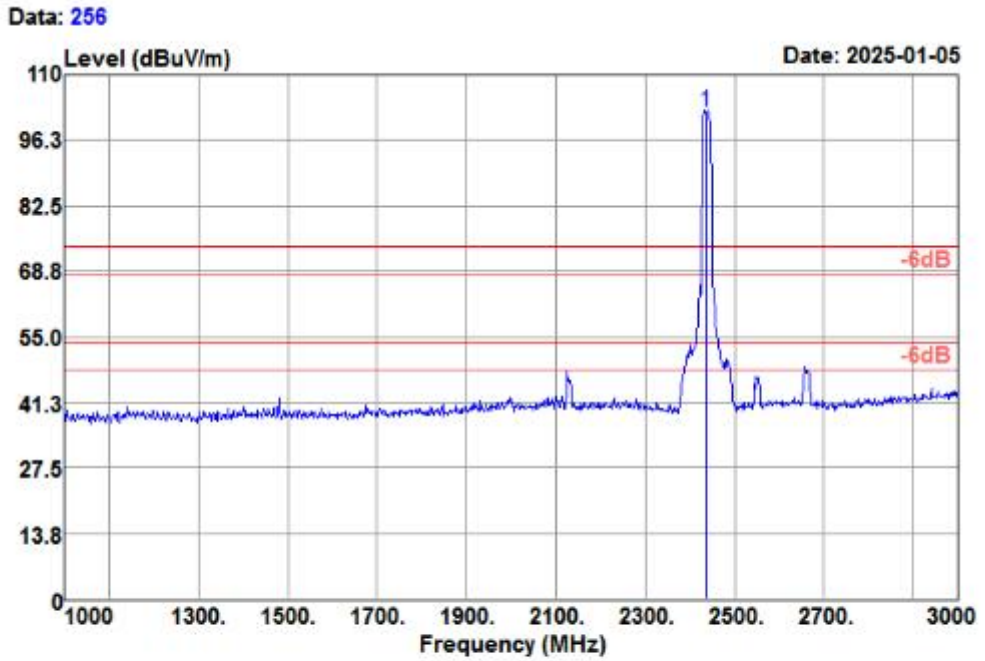
Test Mode :	802.11g CH06 (2437 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	31.86	32.75	5.41	36.11	33.91	54.00	-20.09	Average
4874.000	41.29	32.75	5.41	36.11	43.34	74.00	-30.66	Peak
7311.000	26.97	36.54	6.52	34.39	35.64	54.00	-18.36	Average
7311.000	40.10	36.54	6.52	34.39	48.77	74.00	-25.23	Peak
9748.000	27.15	38.30	7.38	34.40	38.43	54.00	-15.57	Average
9748.000	41.06	38.30	7.38	34.40	52.34	74.00	-21.66	Peak

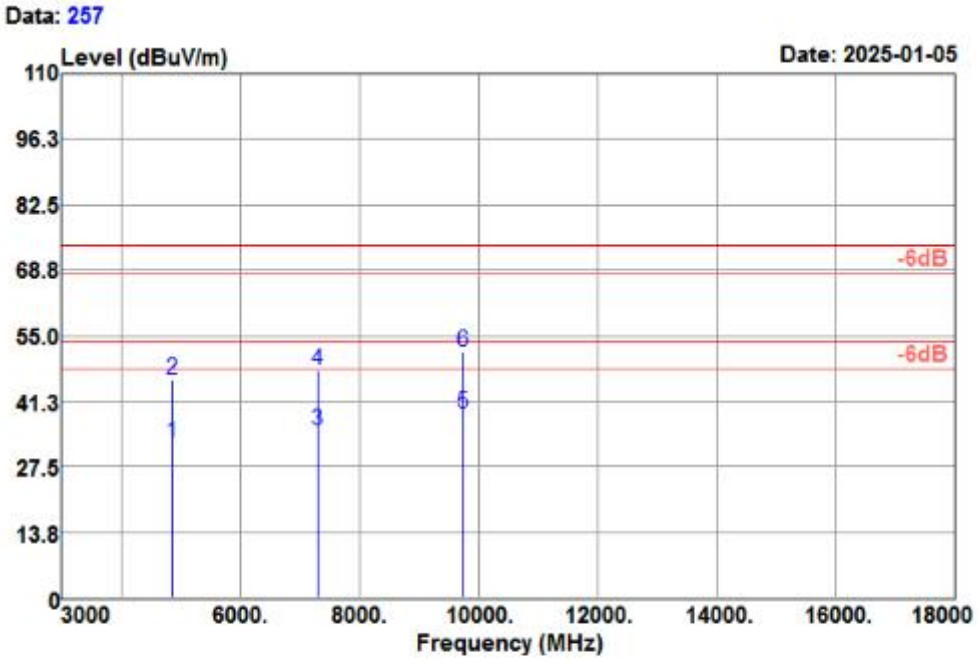
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11g CH06 (2437 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Vertical



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2437.000	107.15	27.70	3.60	36.28	102.17	74.00	28.17	Peak

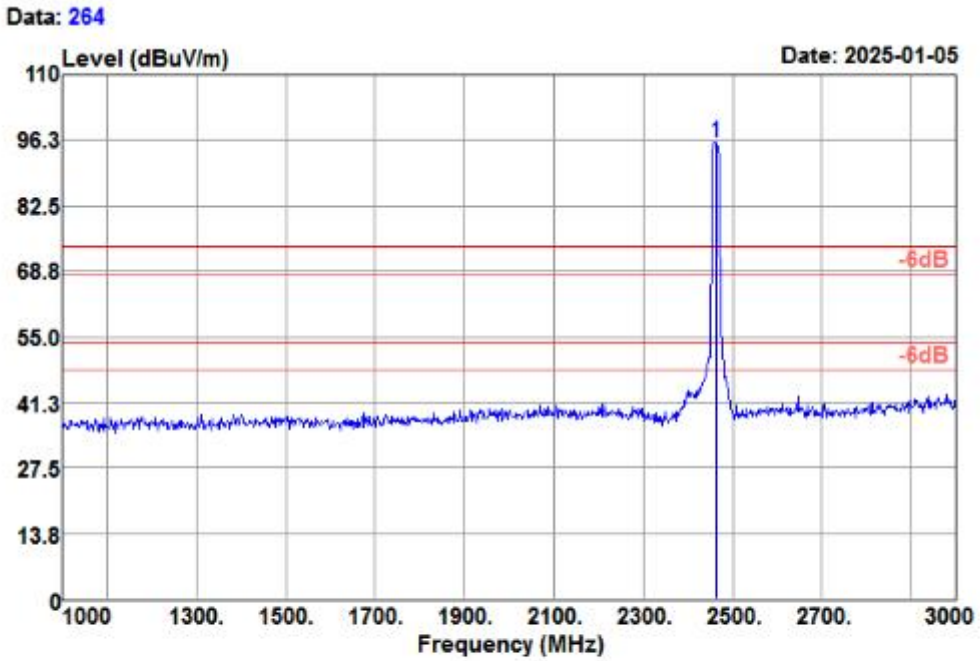
Test Mode :	802.11g CH06 (2437 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	30.33	32.75	5.41	36.11	32.38	54.00	-21.62	Average
4874.000	43.73	32.75	5.41	36.11	45.78	74.00	-28.22	Peak
7311.000	26.41	36.54	6.52	34.39	35.08	54.00	-18.92	Average
7311.000	39.03	36.54	6.52	34.39	47.70	74.00	-26.30	Peak
9748.000	27.42	38.30	7.38	34.40	38.70	54.00	-15.30	Average
9748.000	40.18	38.30	7.38	34.40	51.46	74.00	-22.54	Peak

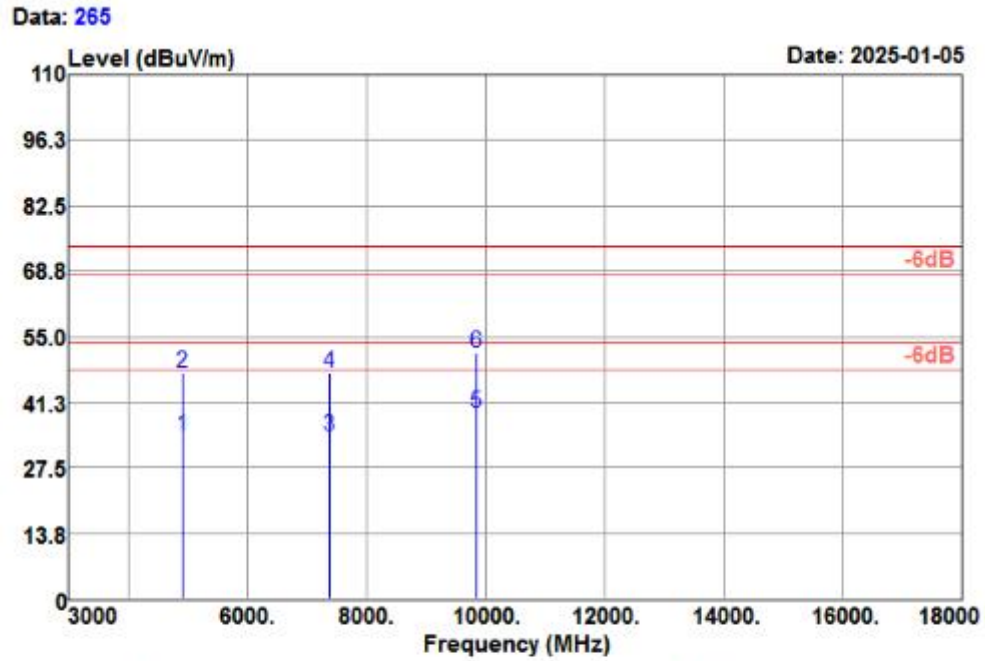
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11g CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Horizontal



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2462.000	100.90	27.63	3.62	36.35	95.80	74.00	21.80	Peak

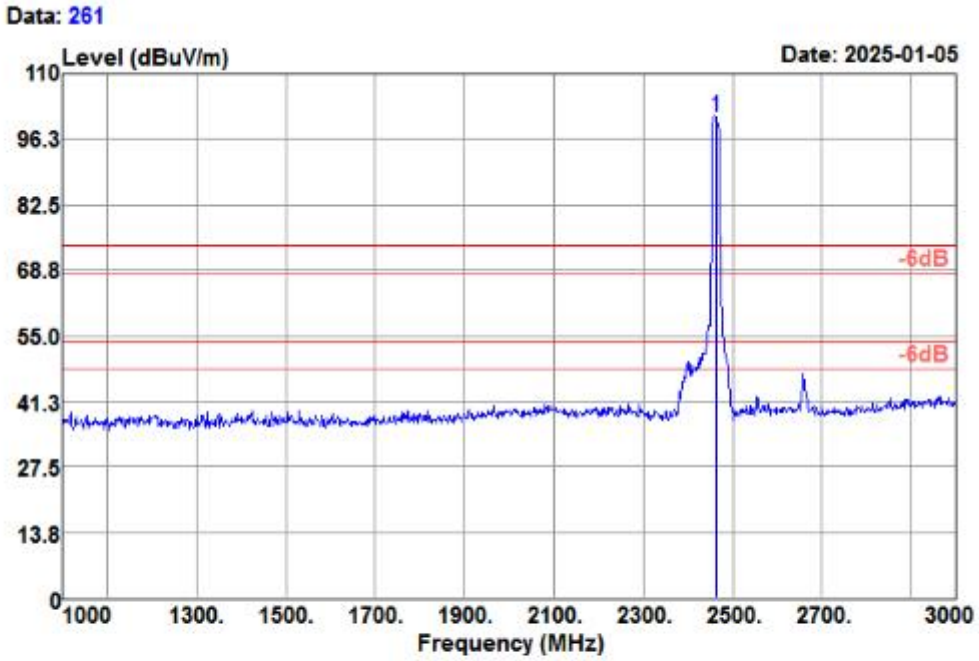
Test Mode :	802.11g CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	32.04	32.70	5.45	36.11	34.08	54.00	-19.92	Average
4924.000	45.39	32.70	5.45	36.11	47.43	74.00	-26.57	Peak
7386.000	25.53	36.48	6.54	34.42	34.13	54.00	-19.87	Average
7386.000	38.63	36.48	6.54	34.42	47.23	74.00	-26.77	Peak
9848.000	27.76	38.29	7.41	34.56	38.90	54.00	-15.10	Average
9848.000	40.62	38.29	7.41	34.56	51.76	74.00	-22.24	Peak

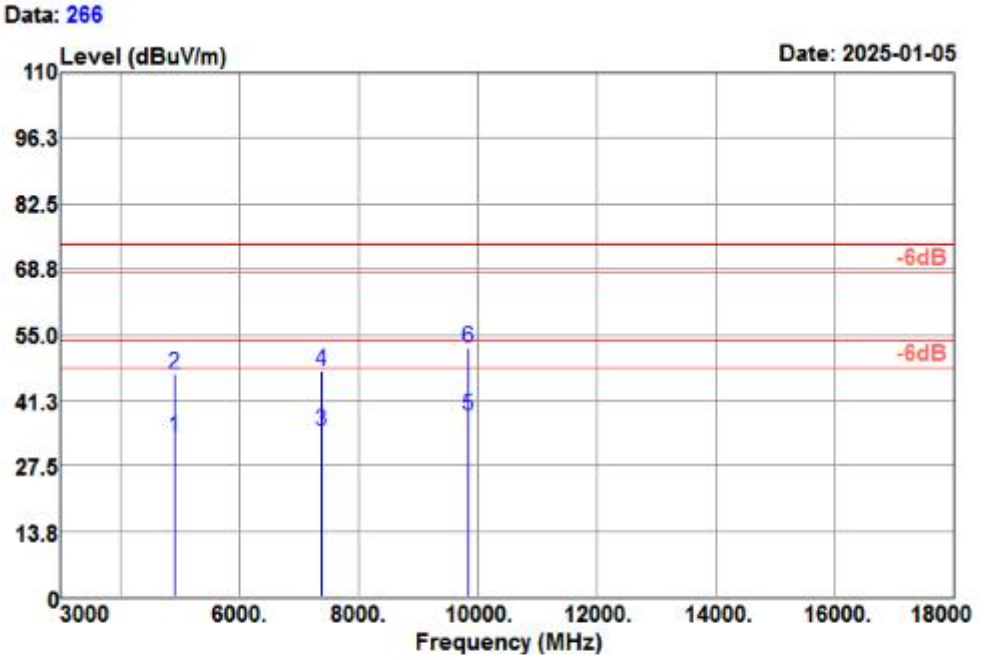
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11g CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.000	106.14	27.63	3.62	36.35	101.04	74.00	27.04	Peak

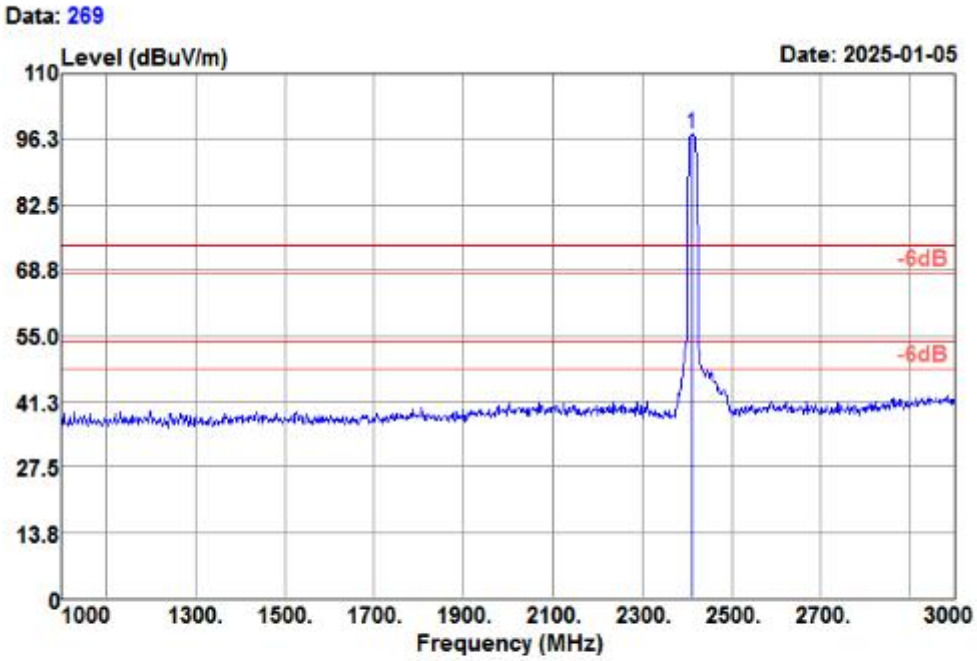
Test Mode :	802.11g CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	31.40	32.70	5.45	36.11	33.44	54.00	-20.56	Average
4924.000	44.73	32.70	5.45	36.11	46.77	74.00	-27.23	Peak
7386.000	26.13	36.48	6.54	34.42	34.73	54.00	-19.27	Average
7386.000	38.87	36.48	6.54	34.42	47.47	74.00	-26.53	Peak
9848.000	26.69	38.29	7.41	34.56	37.83	54.00	-16.17	Average
9848.000	41.00	38.29	7.41	34.56	52.14	74.00	-21.86	Peak

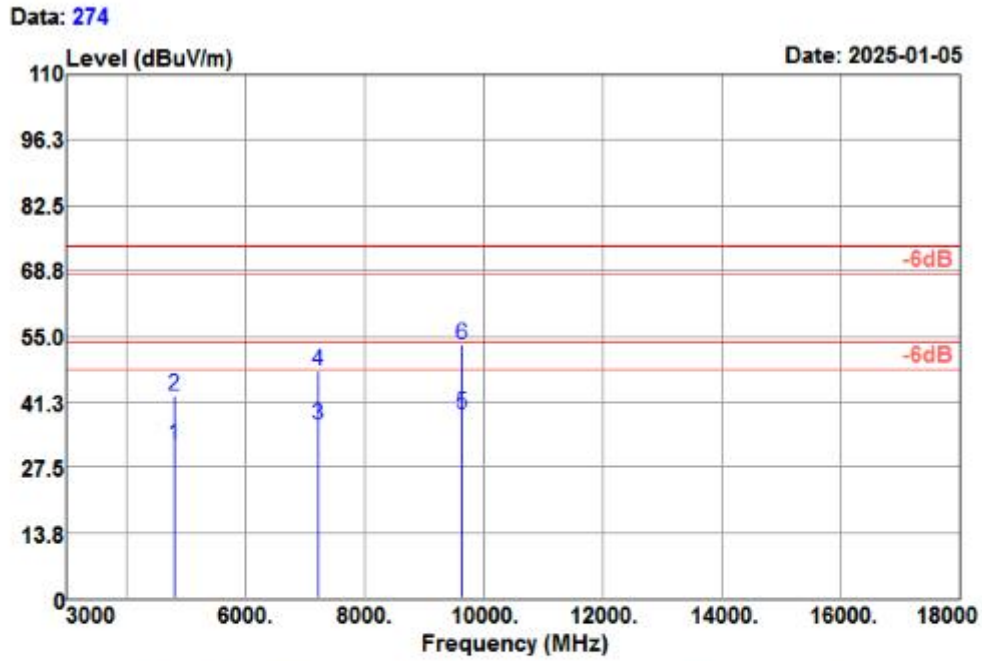
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11nHT20 CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Horizontal



Freq	Reading level	Antenna factor	Cable loss	Preamp factor	level	Limit level	Over limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2412.000	102.23	27.70	3.58	36.21	97.30	74.00	23.30	Peak

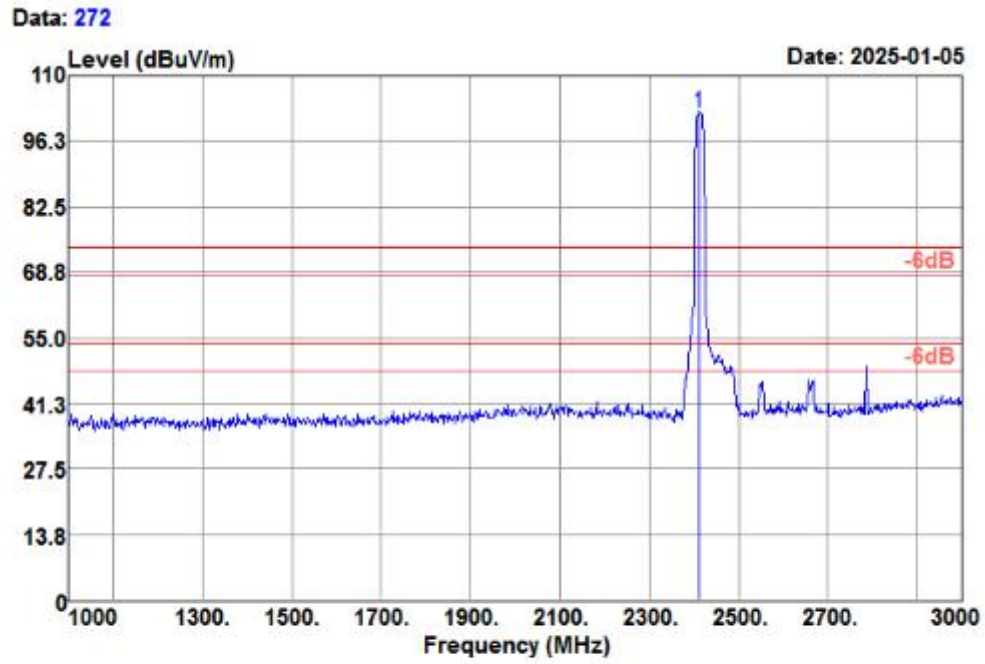
Test Mode :	802.11nHT20 CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	30.42	32.54	5.37	36.12	32.21	54.00	-21.79	Average
4824.000	40.81	32.54	5.37	36.12	42.60	74.00	-31.40	Peak
7236.000	27.68	36.46	6.49	34.37	36.26	54.00	-17.74	Average
7236.000	39.29	36.46	6.49	34.37	47.87	74.00	-26.13	Peak
9648.000	27.14	38.42	7.35	34.24	38.67	54.00	-15.33	Average
9648.000	41.61	38.42	7.35	34.24	53.14	74.00	-20.86	Peak

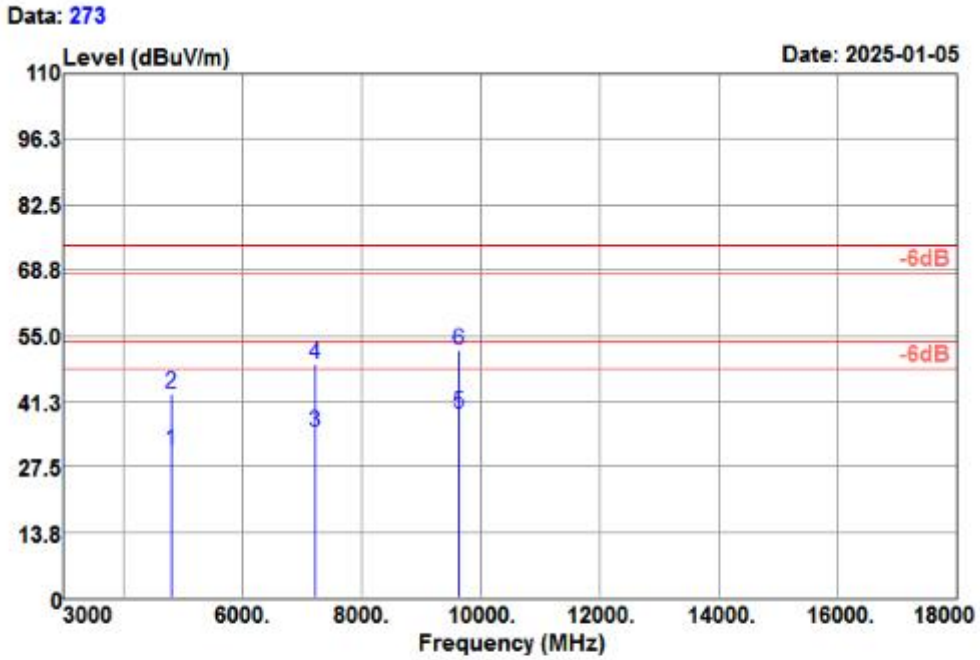
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11nHT20 CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2412.000	107.01	27.70	3.58	36.21	102.08	74.00	28.08	Peak

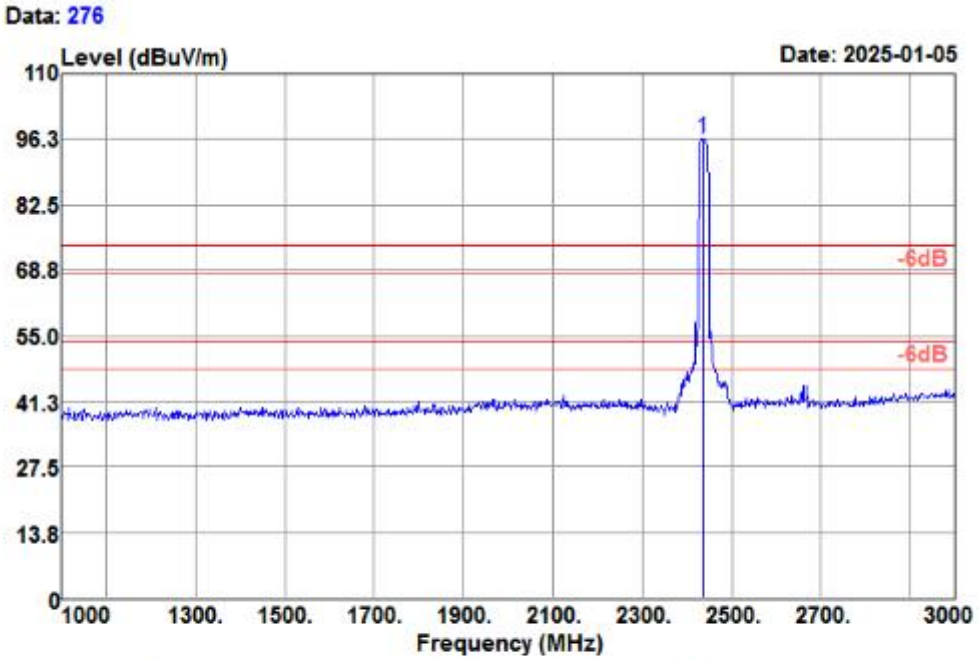
Test Mode :	802.11nHT20 CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4824.000	29.17	32.54	5.37	36.12	30.96	54.00	-23.04	Average
4824.000	41.08	32.54	5.37	36.12	42.87	74.00	-31.13	Peak
7236.000	26.26	36.46	6.49	34.37	34.84	54.00	-19.16	Average
7236.000	40.47	36.46	6.49	34.37	49.05	74.00	-24.95	Peak
9648.000	27.21	38.42	7.35	34.24	38.74	54.00	-15.26	Average
9648.000	40.26	38.42	7.35	34.24	51.79	74.00	-22.21	Peak

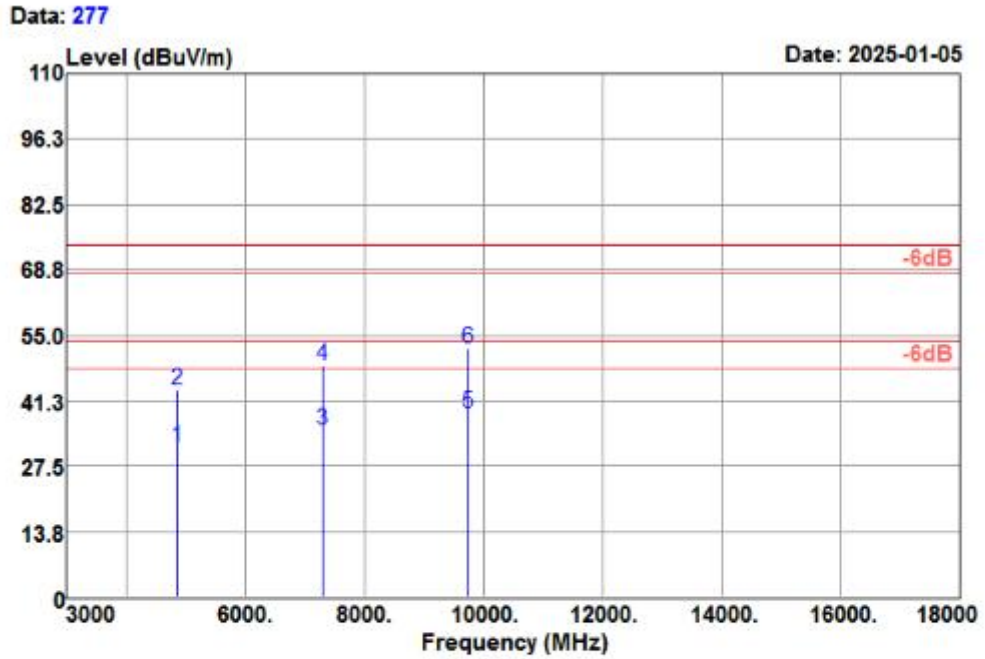
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11nHT20 CH06 (2437 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2437.000	101.27	27.70	3.60	36.28	96.29	74.00	22.29	Peak

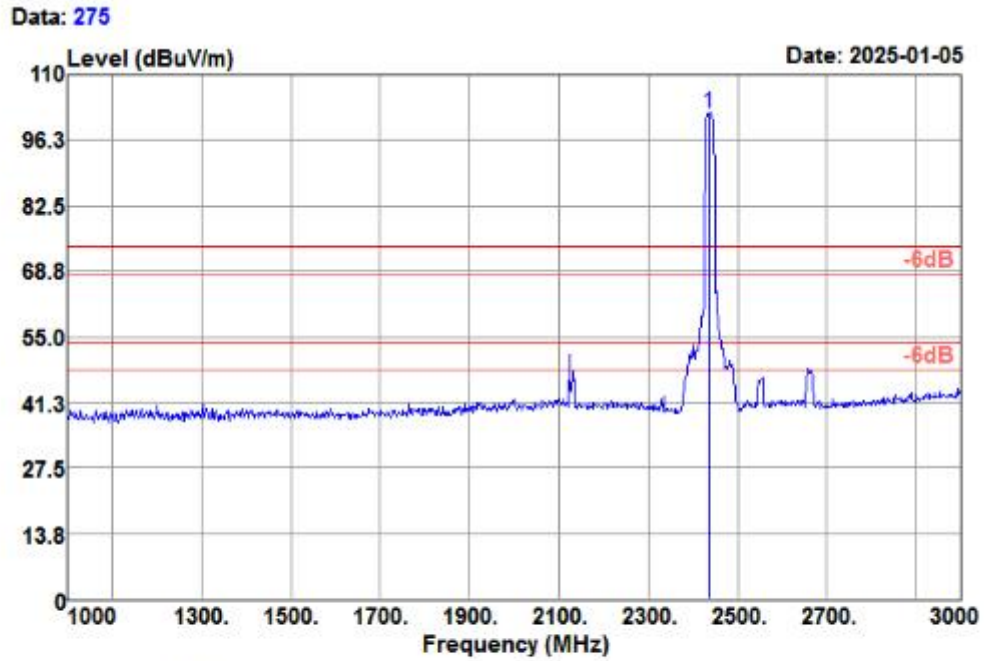
Test Mode :	802.11nHT20 CH06 (2437 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	29.58	32.75	5.41	36.11	31.63	54.00	-22.37	Average
4874.000	41.40	32.75	5.41	36.11	43.45	74.00	-30.55	Peak
7311.000	26.32	36.54	6.52	34.39	34.99	54.00	-19.01	Average
7311.000	39.96	36.54	6.52	34.39	48.63	74.00	-25.37	Peak
9748.000	27.44	38.30	7.38	34.40	38.72	54.00	-15.28	Average
9748.000	40.93	38.30	7.38	34.40	52.21	74.00	-21.79	Peak

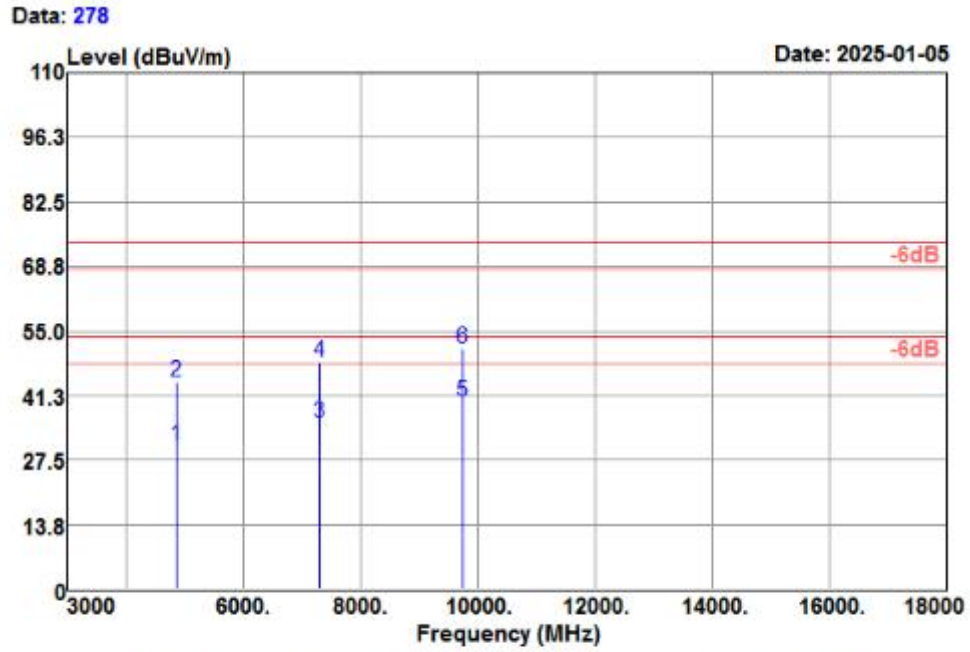
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11nHT20 CH06 (2437 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2437.000	107.01	27.70	3.60	36.28	102.03	74.00	28.03	Peak

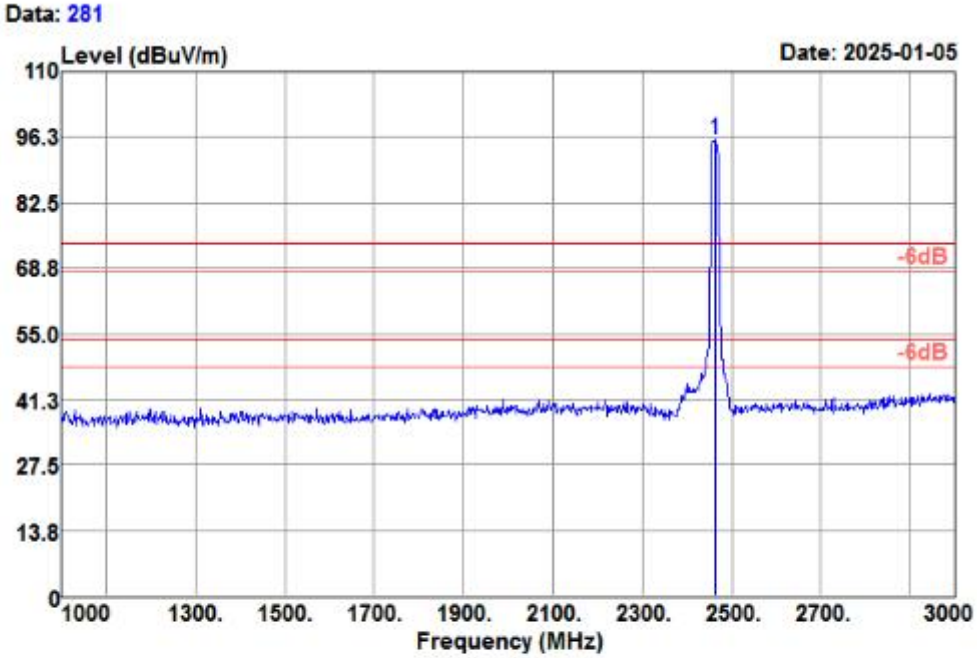
Test Mode :	802.11nHT20 CH06 (2437 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4874.000	28.49	32.75	5.41	36.11	30.54	54.00	-23.46	Average
4874.000	42.12	32.75	5.41	36.11	44.17	74.00	-29.83	Peak
7311.000	26.70	36.54	6.52	34.39	35.37	54.00	-18.63	Average
7311.000	39.56	36.54	6.52	34.39	48.23	74.00	-25.77	Peak
9748.000	28.74	38.30	7.38	34.40	40.02	54.00	-13.98	Average
9748.000	39.94	38.30	7.38	34.40	51.22	74.00	-22.78	Peak

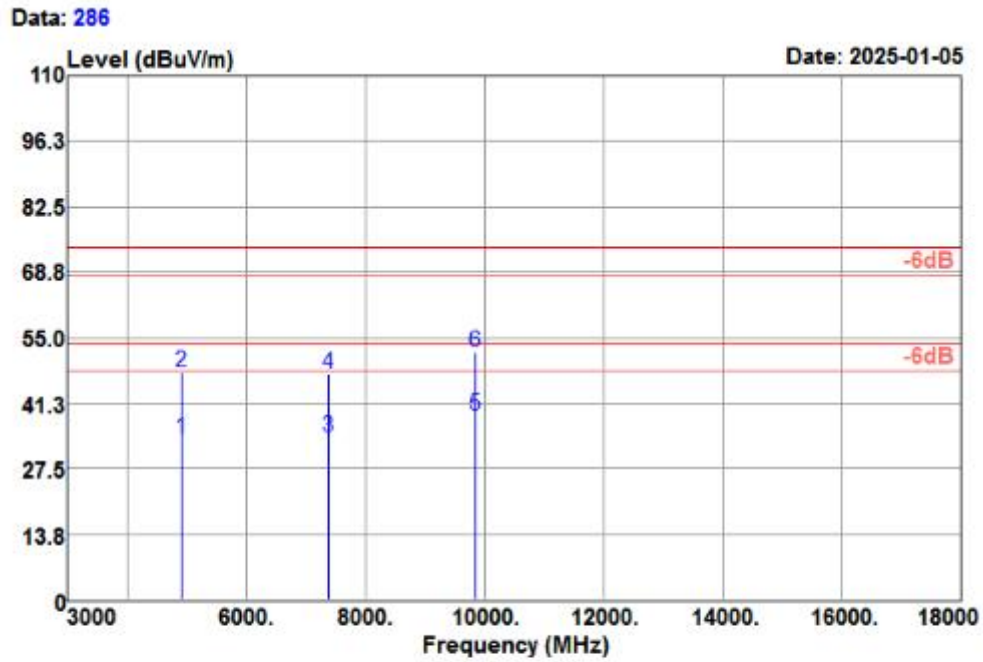
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11nHT20 CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.000	100.92	27.63	3.62	36.35	95.82	74.00	21.82	Peak

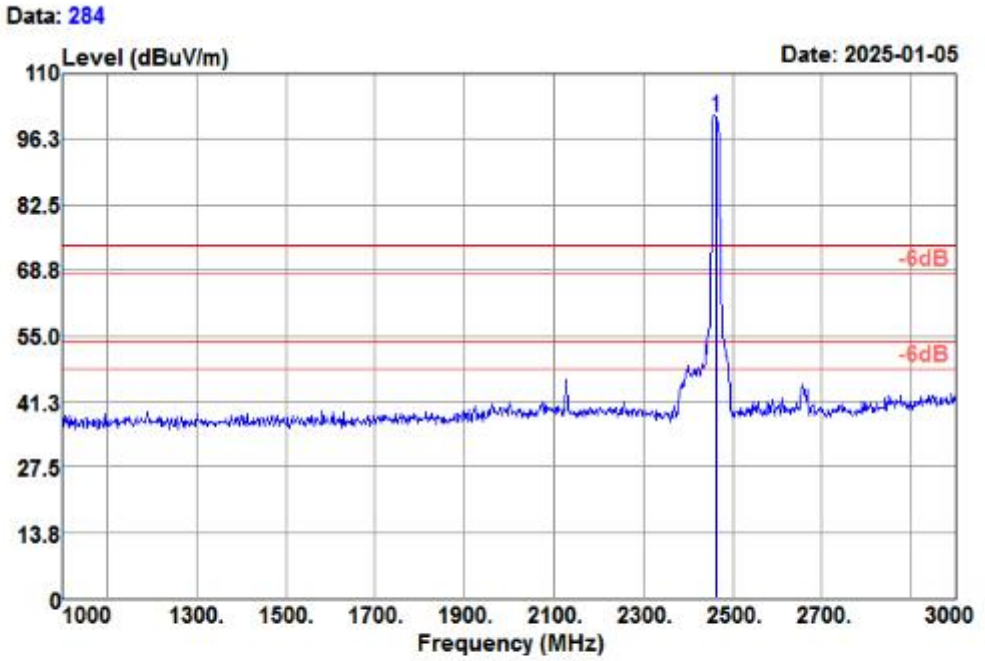
Test Mode :	802.11nHT20 CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	31.56	32.70	5.45	36.11	33.60	54.00	-20.40	Average
4924.000	45.60	32.70	5.45	36.11	47.64	74.00	-26.36	Peak
7386.000	25.38	36.48	6.54	34.42	33.98	54.00	-20.02	Average
7386.000	38.69	36.48	6.54	34.42	47.29	74.00	-26.71	Peak
9848.000	27.65	38.29	7.41	34.56	38.79	54.00	-15.21	Average
9848.000	40.92	38.29	7.41	34.56	52.06	74.00	-21.94	Peak

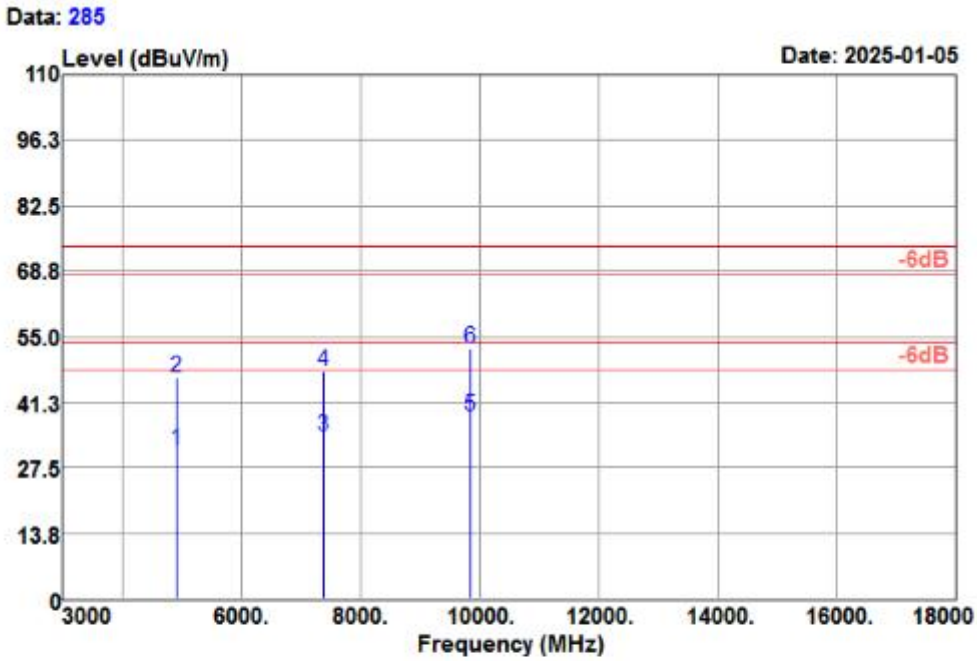
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Test Mode :	802.11nHT20 CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	1GHz~3GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2462.000	106.19	27.63	3.62	36.35	101.09	74.00	27.09	Peak

Test Mode :	802.11nHT20 CH11 (2462 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	3GHz~18GHz	Polarization :	Vertical

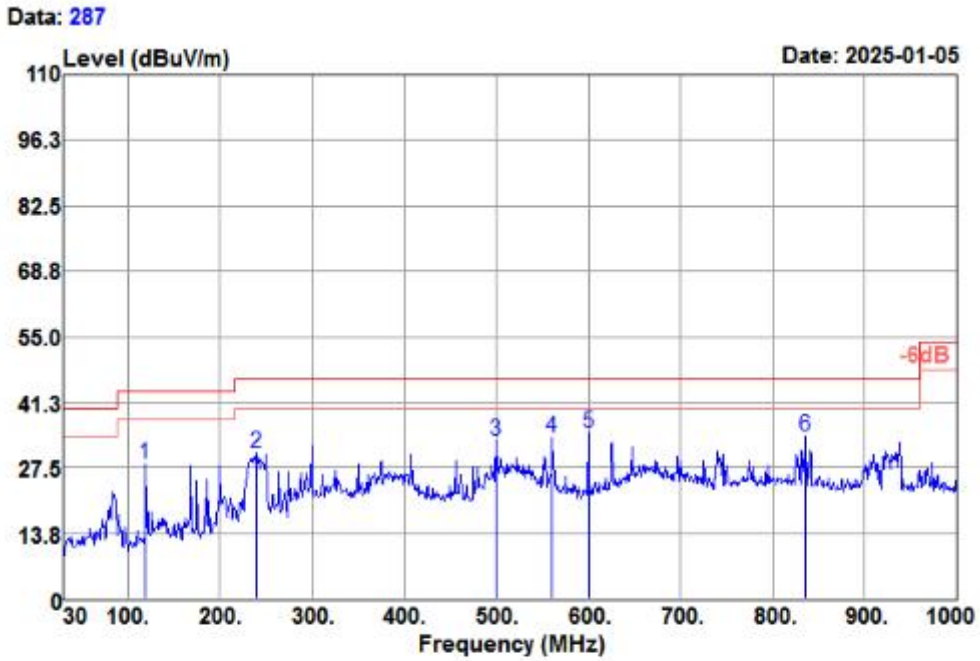


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4924.000	28.99	32.70	5.45	36.11	31.03	54.00	-22.97	Average
4924.000	44.47	32.70	5.45	36.11	46.51	74.00	-27.49	Peak
7386.000	25.37	36.48	6.54	34.42	33.97	54.00	-20.03	Average
7386.000	39.19	36.48	6.54	34.42	47.79	74.00	-26.21	Peak
9848.000	27.03	38.29	7.41	34.56	38.17	54.00	-15.83	Average
9848.000	41.44	38.29	7.41	34.56	52.58	74.00	-21.42	Peak

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

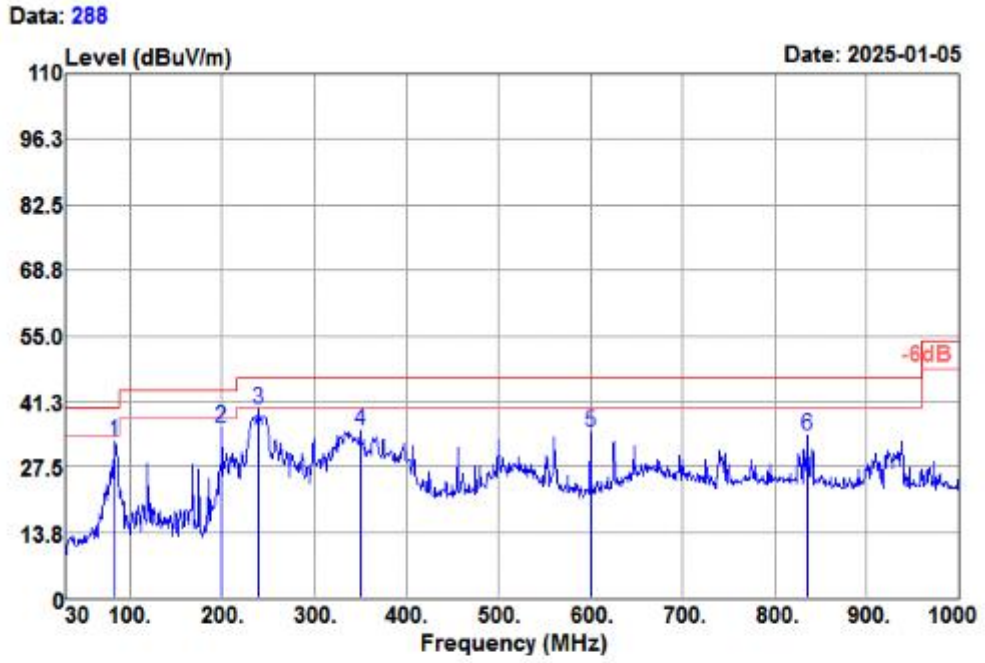
4.5.6 Test Result of Radiated Spurious Emission (30MHz ~ 1GHz)

Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	30MHz~1GHz	Polarization :	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
119.240	47.60	11.19	2.03	32.50	28.32	43.50	-15.18	QP
239.520	48.66	11.34	2.96	32.50	30.46	46.00	-15.54	QP
500.450	43.62	17.86	4.45	32.70	33.23	46.00	-12.77	QP
560.590	42.97	18.62	4.71	32.70	33.60	46.00	-12.40	QP
600.360	42.81	19.72	4.88	32.70	34.71	46.00	-11.29	QP
836.070	38.87	22.40	5.79	32.90	34.16	46.00	-11.84	QP

Test Mode :	802.11b CH01 (2412 MHz)	Temperature :	24℃
Test Engineer :	Jack Liu	Relative Humidity :	63%
Frequencey Range	30MHz~1GHz	Polarization :	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
84.320	55.46	8.02	1.72	32.53	32.67	40.00	-7.33	QP
199.750	55.58	9.78	2.70	32.50	35.56	43.50	-7.94	QP
239.520	57.70	11.34	2.96	32.50	39.50	46.00	-6.50	QP
350.100	49.43	14.47	3.63	32.55	34.98	46.00	-11.02	QP
600.360	42.81	19.72	4.88	32.70	34.71	46.00	-11.29	QP
836.070	38.87	22.40	5.79	32.90	34.16	46.00	-11.84	QP

4.6 AC Conducted Emission Measurement

4.6.1 Limit of AC Conducted Emission

FCC §15.207

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

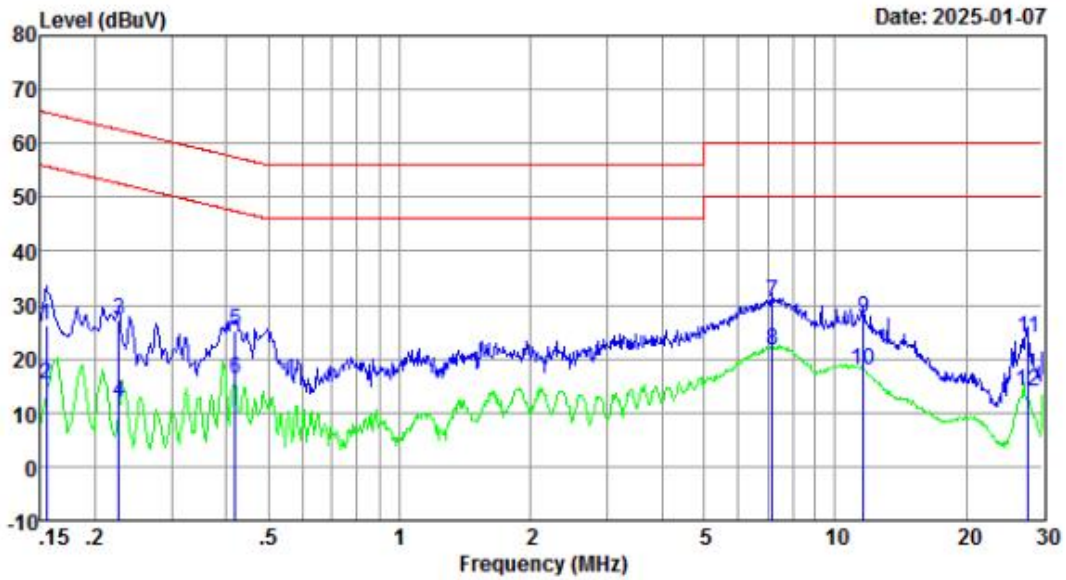
*Decreases with the logarithm of the frequency.

4.6.2 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

4.6.3 Test Result of AC Conducted Emission

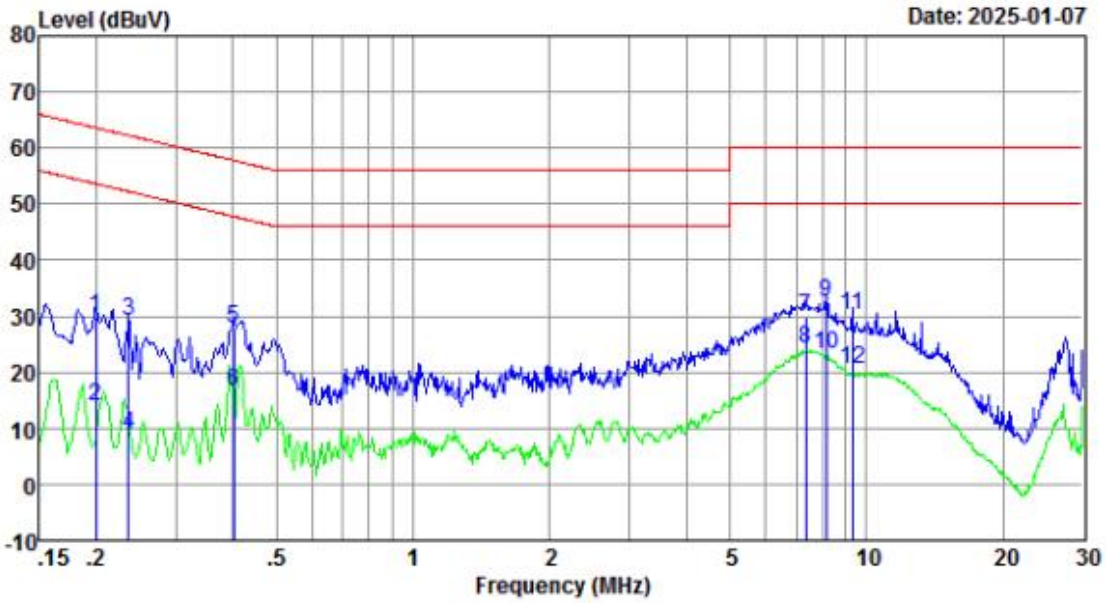
Test Mode :	Mode 1	Temperature :	21℃
Test Engineer :	Jack Liu	Relative Humidity :	54%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	Adapter + Notebook		



Freq	Reading level	LISN/ISN factor	Cable loss	Result level	Limit level	Over limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.155	16.61	9.67	0.01	26.29	65.74	-39.45	QP
0.155	5.61	9.67	0.01	15.29	55.74	-40.45	Average
0.227	17.40	9.70	0.02	27.12	62.57	-35.45	QP
0.227	2.20	9.70	0.02	11.92	52.57	-40.65	Average
0.419	15.30	9.74	0.02	25.06	57.46	-32.40	QP
0.419	6.40	9.74	0.02	16.16	47.46	-31.30	Average
7.175	20.40	9.89	0.07	30.36	60.00	-29.64	QP
7.175	11.60	9.89	0.07	21.56	50.00	-28.44	Average
11.621	17.50	9.97	0.09	27.56	60.00	-32.44	QP
11.621	7.80	9.97	0.09	17.86	50.00	-32.14	Average
27.708	13.60	10.12	0.14	23.86	60.00	-36.14	QP
27.708	3.50	10.12	0.14	13.76	50.00	-36.24	Average

Result Level= Reading Level + LISN Factor + Cable Loss

Test Mode :	Mode 1	Temperature :	21℃
Test Engineer :	Jack Liu	Relative Humidity :	54%
Test Voltage :	120Vac / 60Hz	Phase :	NEUTRAL
Function Type :	Adapter + Notebook		



Freq MHz	Reading level dBuV	LISN/ISN factor dB	Cable loss dB	Result level dBuV	Limit level dBuV	Over limit dB	Remark
0.200	20.20	9.59	0.01	29.80	63.62	-33.82	QP
0.200	4.40	9.59	0.01	14.00	53.62	-39.62	Average
0.235	19.50	9.59	0.02	29.11	62.26	-33.15	QP
0.235	-0.80	9.59	0.02	8.81	52.26	-43.45	Average
0.402	18.20	9.59	0.02	27.81	57.81	-30.00	QP
0.402	7.10	9.59	0.02	16.71	47.81	-31.10	Average
7.329	20.10	9.77	0.07	29.94	60.00	-30.06	QP
7.329	14.40	9.77	0.07	24.24	50.00	-25.76	Average
8.148	22.60	9.80	0.07	32.47	60.00	-27.53	QP
8.148	13.50	9.80	0.07	23.37	50.00	-26.63	Average
9.302	20.40	9.83	0.08	30.31	60.00	-29.69	QP
9.302	10.80	9.83	0.08	20.71	50.00	-29.29	Average

Result Level= Reading Level + LISN Factor + Cable Loss

4.7 Antenna Requirements

4.7.1 Standard Applicable

According to antenna requirement of §15.203.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 Antenna Connected Construction

An FPC antenna design is used.

4.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	Keysight	N9010A	MY56070788	2024/12/17	2025/12/16	Conducted
10dB Attenuator	MCLI	FAS-8-10	1693	2024/7/5	2025/7/4	Conducted
Test Software	Tonscend	JS1120-3	V3.5.39	N/A	N/A	Conducted

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV30	103728	2024/12/17	2025/12/16	Radiation
EMI Test Receiver	R&S	ESR3	102144	2024/12/17	2025/12/16	Radiation
Amplifier	Sonoma	310	363917	2024/12/17	2025/12/16	Radiation
Amplifier	Schwarzbeck	BBV 9718	327	2024/12/17	2025/12/16	Radiation
Amplifier	Narda	TTA1840-35-HG	2034380	2024/12/24	2025/12/23	Radiation
Loop Antenna	Schwarzbeck	FMZB 1519 B	00051	2023/2/12	2026/2/11	Radiation
Broadband Antenna	Schwarzbeck	VULB 9168	9168-757	2023/9/17	2026/9/16	Radiation
Horn Antenna	Schwarzbeck	BBHA 9120 D	01677	2024/1/30	2027/1/29	Radiation
Horn Antenna	COM-POWER	AH-1840	101117	2024/1/31	2027/1/30	Radiation
Test Software	Audix	E3	6.111221a	N/A	N/A	Radiation
Filter	Micro-Tronics	BRM 50702	G266	N/A	N/A	Radiation

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Due Date	Remark
LISN	R&S	ENV216	102125	2024/12/17	2025/12/16	Conducted
LISN	R&S	ENV432	101327	2024/12/17	2025/12/16	Conducted
EMI Test Receiver	R&S	ESR3	102143	2024/12/17	2025/12/16	Conducted
EMI Test Software	Audix	E3	N/A	N/A	N/A	Conducted

N/A: No Calibration Required

6 Uncertainty of Evaluation

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	±3.02 dB
Radiated emissions	30MHz ~ 1GHz	±5.67 dB
	1GHz ~ 18GHz	±5.16 dB
	18GHz ~ 40GHz	±5.18 dB

MEASUREMENT	UNCERTAINTY
Occupied Channel Bandwidth	±99.44 Hz
RF output power, conducted	±0.80 dB
Power density, conducted	±2.02dB
Emissions, conducted	±2.02dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

7 Setup Photographs

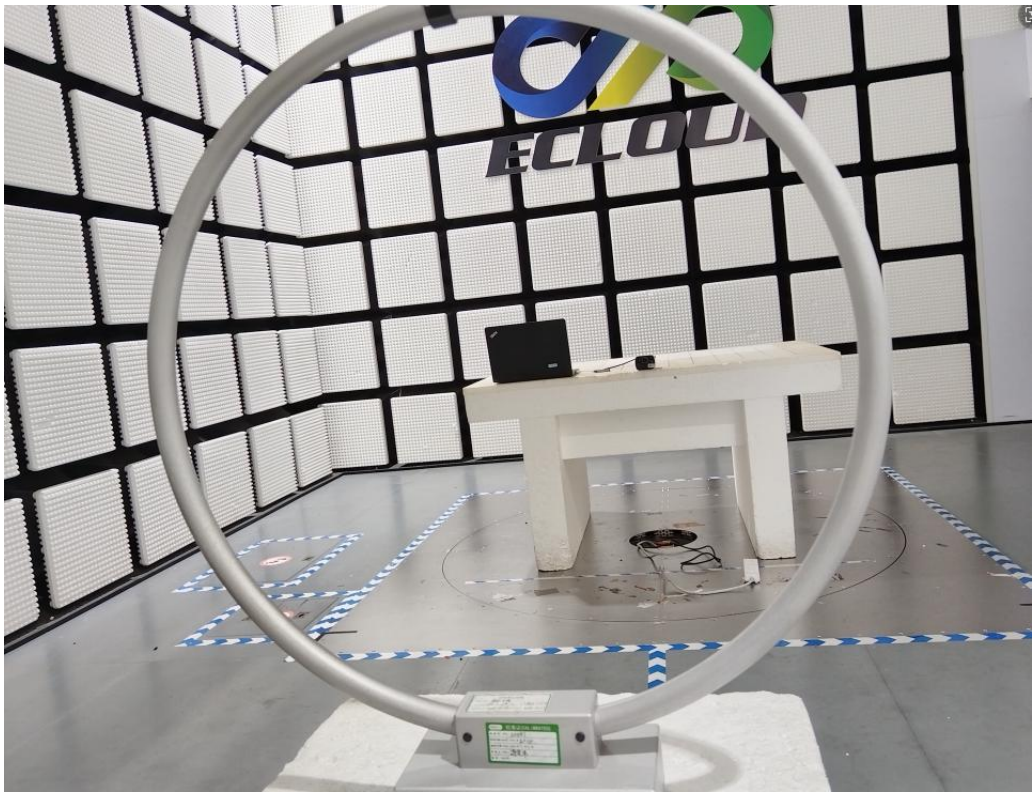


Fig. 1 Radiated emission setup photo(Below 30MHz)

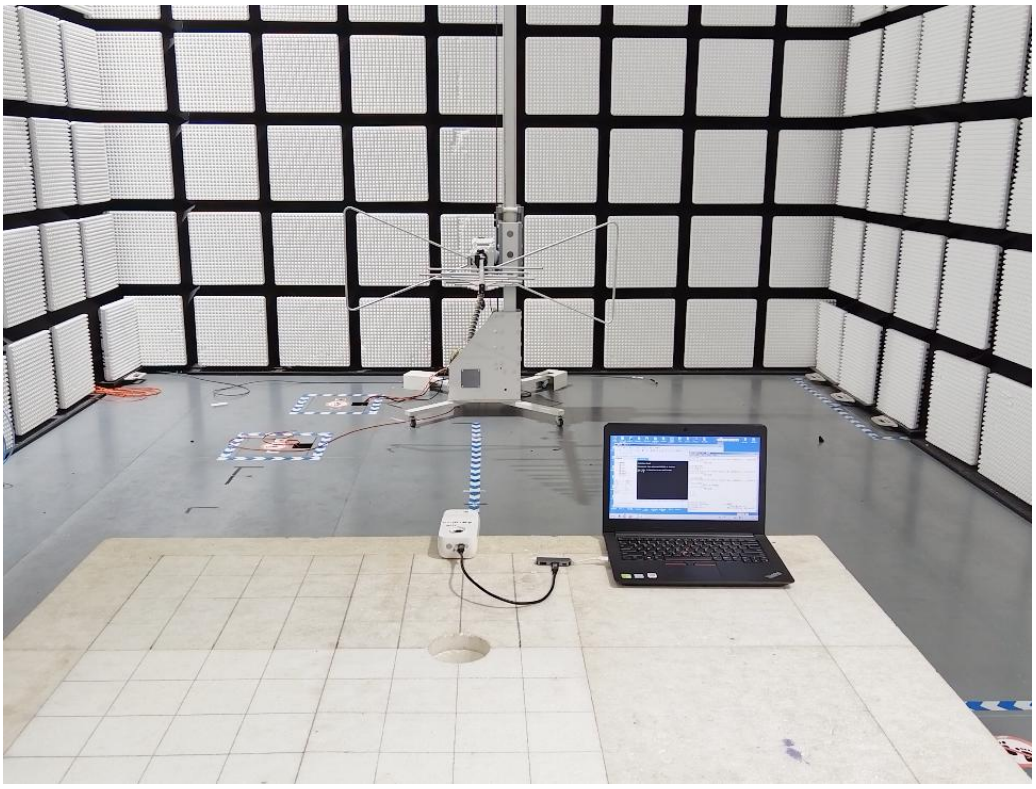


Fig. 2 Radiated emission setup photo(30MHz-1GHz)

Fig. 3 Radiated emission setup photo(Above 1GHz)

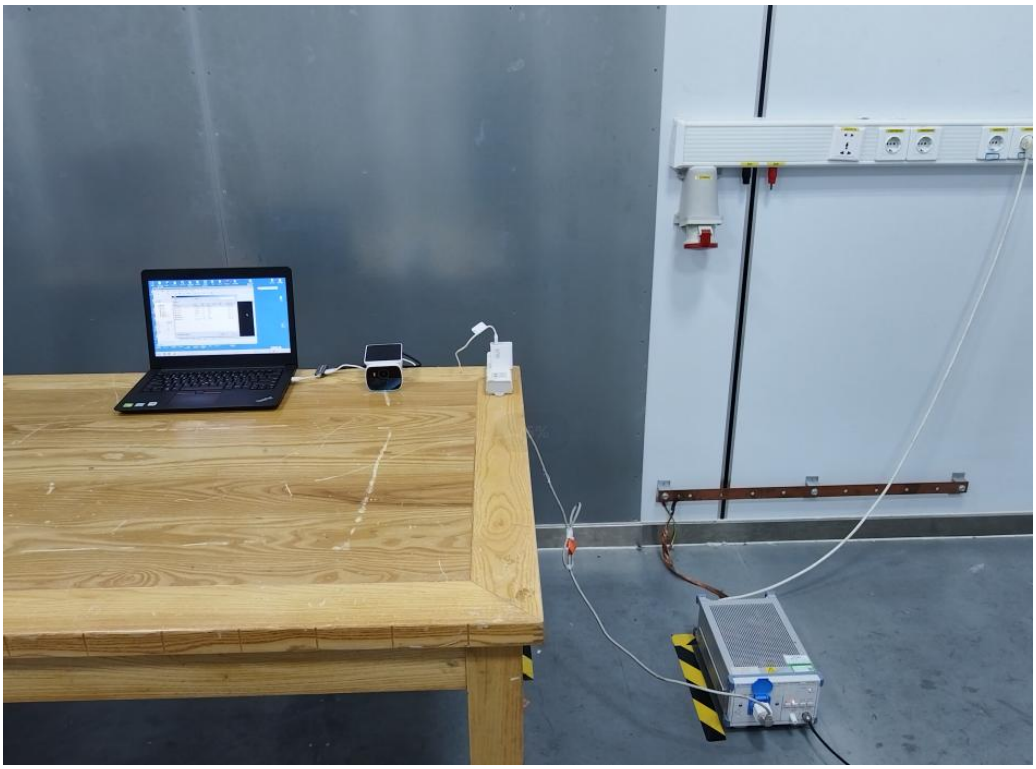


Fig. 4 Power line conducted emission setup photo

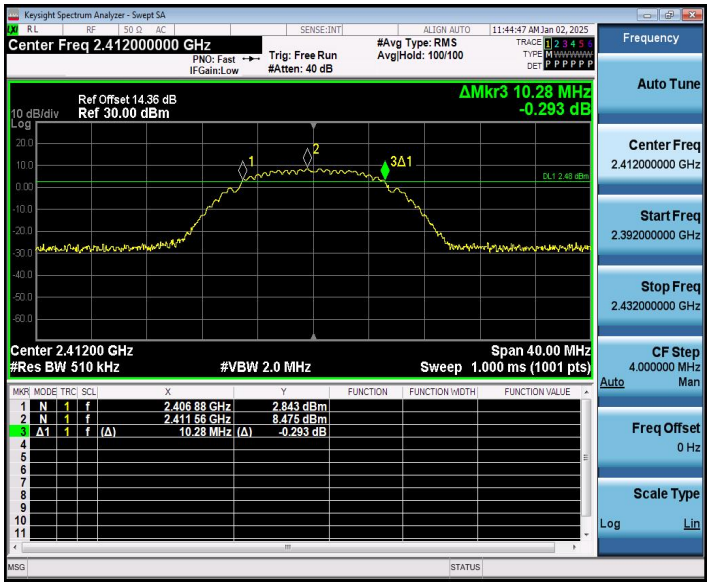
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.280	2406.880	2417.160	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	16.400	2403.840	2420.240	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.240	2453.880	2470.120	0.5	PASS
11N20SISO	Ant1	2412	17.080	2403.360	2420.440	0.5	PASS
		2437	17.080	2428.480	2445.560	0.5	PASS
		2462	16.960	2453.520	2470.480	0.5	PASS

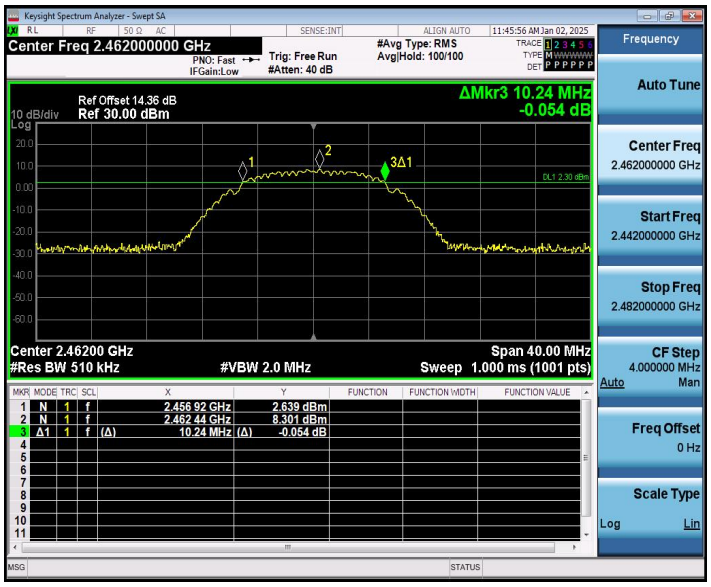
Test Graphs

11B_Ant1_2412

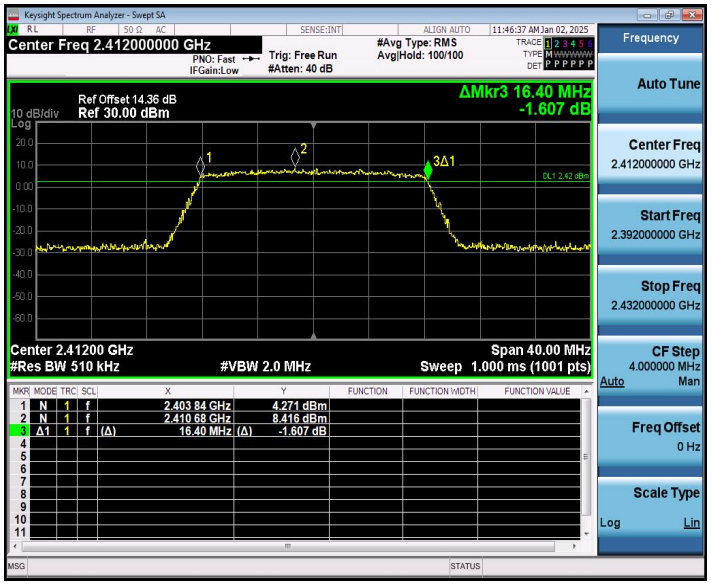


11B_Ant1_2437

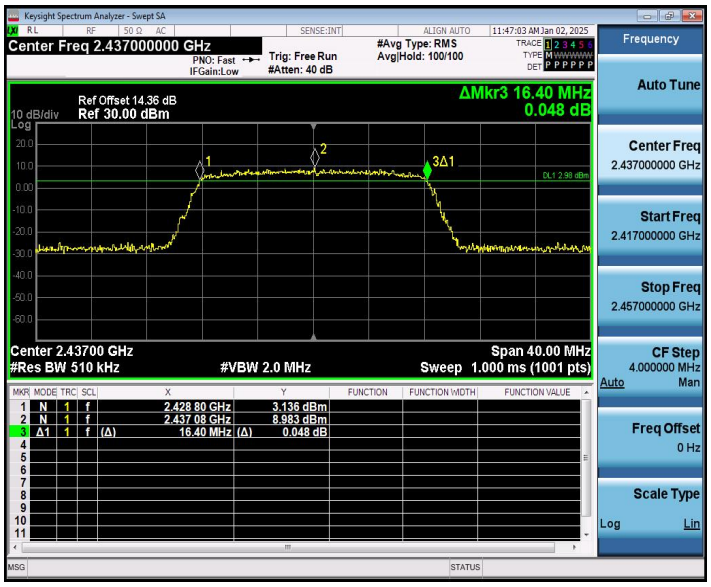
11B_Ant1_2462



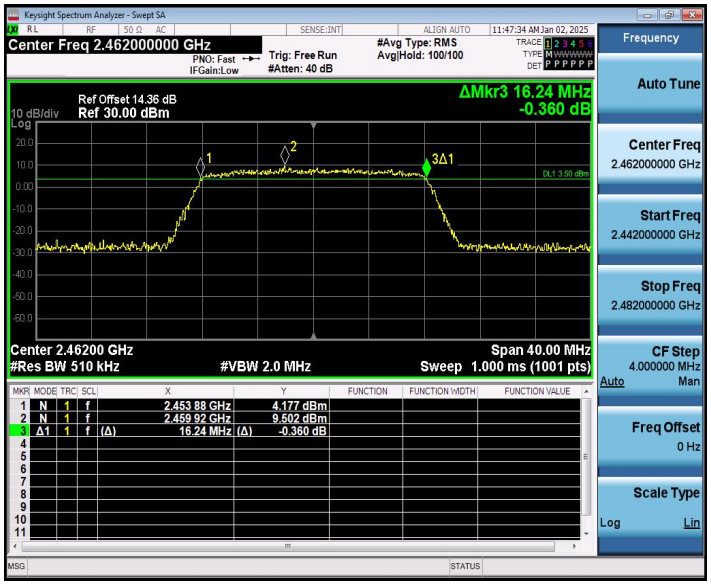
11G_Ant1_2412



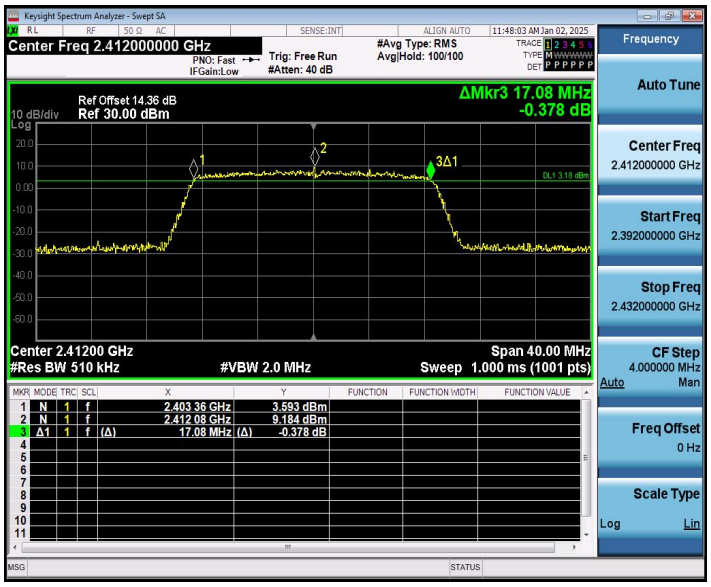
11G_Ant1_2437



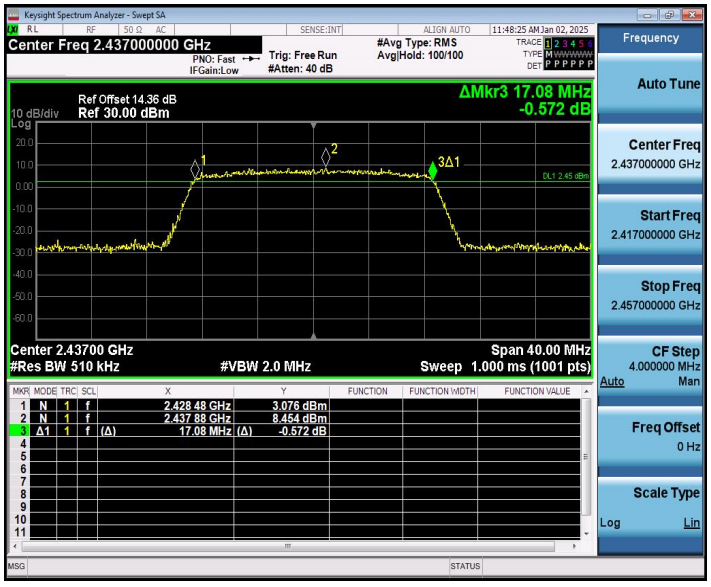
11G_Ant1_2462



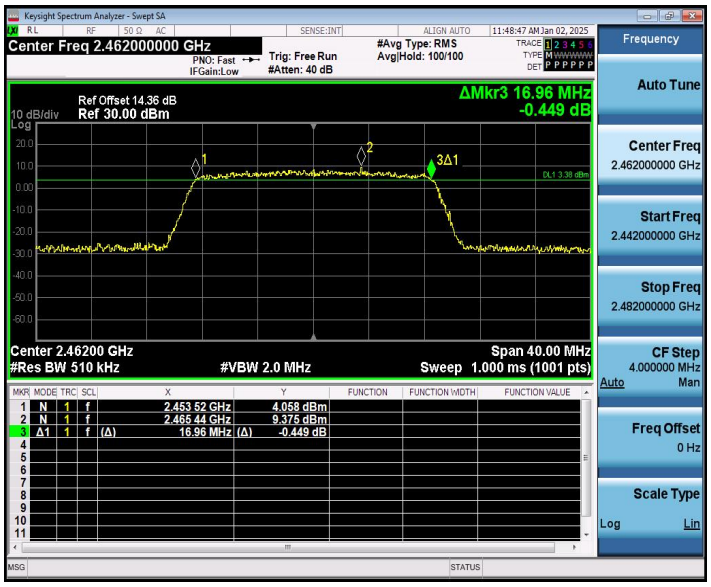
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.462000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 100/100
11:48:47 AM Jan 02, 2025
Ref Offset 14.36 dB
10 dB/div
Ref 30.00 dBm
ΔMkr3 16.96 MHz
-0.449 dB
Center 2.46200 GHz
#Res BW 510 kHz
#VBW 2.0 MHz
Span 40.00 MHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 2.453 52 GHz 4.058 dBm
2 N 1 f 2.465 44 GHz 9.375 dBm
3 Δ1 1 f (Δ) 16.96 MHz (Δ) -0.449 dB
Frequency
Auto Tune
Center Freq
2.462000000 GHz
Start Freq
2.442000000 GHz
Stop Freq
2.482000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin