



RF MEASUREMENT REPORT

FCC ID: SVC-BLSCB13A

Applicant: Lenbrook Industries Limited

Product: Wireless Audio Source Adapter

Model No.: HUB

Brand Name: Bluesound

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15 Subpart C (Section 15.247)

Result: Complies

Test Date: 2021-09-22 ~ 2022-01-12 (Original Date)
2022-07-16 ~ 2022-07-27 (Verified Date)

Reviewed By:

Kevin Guo

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2206RSU073-U1	Rev. 01	Initial Report	2022-08-15	Valid

Note: This report reused the test data from other authorized device (FCC ID: SVC-BLSN33A, Original Grant Date: 05/27/2022). And add some spot check verified data according to KDB 484596 D01v01 and the difference between the FCC IDs.

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1. General Information

1.1. Applicant

Lenbrook Industries Limited
633 Granite Court, Pickering, Ontario L1W 3K1, Canada

1.2. Manufacturer

Lenbrook Industries Limited
633 Granite Court, Pickering, Ontario L1W 3K1, Canada

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China Laboratory Accreditations A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001 VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104
☐	Test Site – MRT Shenzhen Laboratory Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China Laboratory Accreditations A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
☐	Test Site – MRT Taiwan Laboratory Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Laboratory Accreditations TAF: L3261-190725 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	Wireless Audio Source Adapter
Model No.	HUB
Serial No.	H213N330B01032
Wi-Fi Specification	802.11a/b/g/n/ac
Antenna Information	Refer to section 1.7
Working Voltage	100-240V ~ 50/60Hz, 10W

Remark:

1. The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.
2. The device (FCC ID: SVC-BLSCB13A) has the same Wi-Fi module and the same Wi-Fi RF parameter with the authorized device (FCC ID: SVC-BLSN33A, Original Grant Date: 05/27/2022). The Wi-Fi module is shown in the table 1 as below.

Table 1			
No.	Original (FCC ID: SVC-BLSN33A)	New (FCC ID: SVC-BLSCB13A)	Remark
1	The Same Wi-Fi module other than the other PCBA and enclosure.		Wi-Fi module 

According to the declaration as above, so this device reuses the test data of original device and adds some spot check verified data according to KDB 484596 D01v01. Output power was verified, and RE/CE were retested in this report.

1.5. Radio Specification

Frequency Range	802.11b/g/n-HT20: 2412 ~ 2462MHz 802.11n-HT40: 2412 ~ 2452MHz
Channel Number	802.11b/g/n-HT20: 11 802.11n-HT40: 7
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 150Mbps

Note: For other features of this EUT, test report will be issued separately.

1.6. Working Frequencies

802.11b/g/n-HT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

802.11n-HT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	--	--	--	--

1.7. Antennas Information

Antenna Type	Frequency Band (MHz)	T _x Paths	Antenna Gain (dBi)
Wi-Fi			
PCB Antenna	2412 ~ 2462	1	-0.02
	5180 ~ 5240	1	2.53
	5260 ~ 5320	1	1.99
	5500 ~ 5720	1	1.49
	5745 ~ 5825	1	1.51

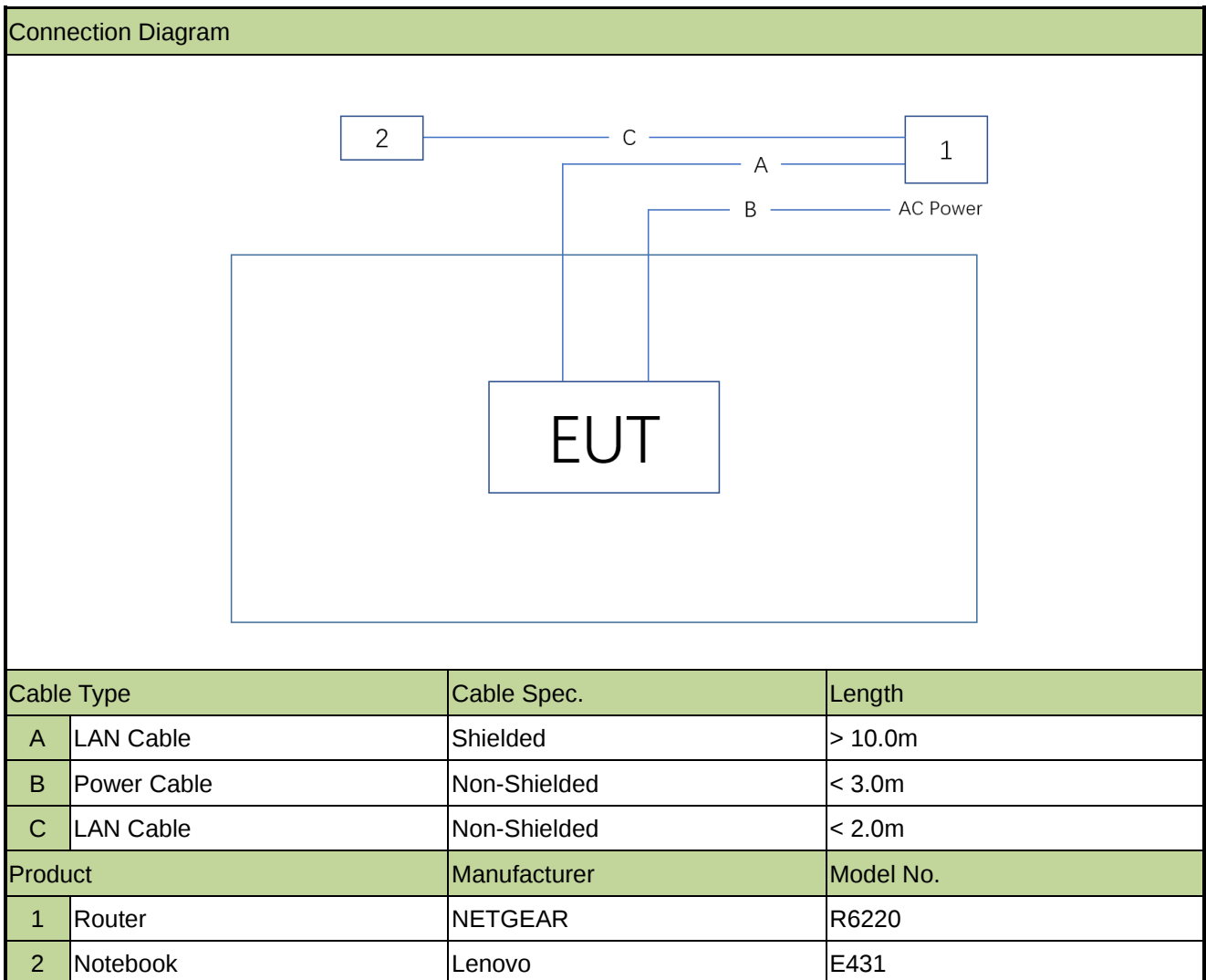
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by 802.11b (1Mbps)
Mode 2: Transmit by 802.11g (54Mbps)
Mode 3: Transmit by 802.11n-HT20 (MCS7)
Mode 4: Transmit by 802.11n-HT40 (MCS7)

2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.



2.3. Test Software

The test utility software used during testing was “SecureCRT”, and the version was 6.2.3 (build 313).

2.4. Applied Standards

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

- FCC Part 15.247
- KDB 558074 D01v05r02
- ANSI C63.10-2013

2.5. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Original Data Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2022/4/13	WZ-SR5
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2022/6/28	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	/	/	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2022/6/24	WZ-SR5

Software	Version	Function
EMI Software	V3	EMI Test Software

Spot Check and Re-test Data Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2023-05-20	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2023-06-04	WZ-AC2
Thermohygrometer	Mingle	ETH529	MRTSUE06170	1 year	2022-12-01	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2022-10-21	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2022-11-12	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2023-04-21	WZ-AC2
Thermohygrometer	testo	Testo 608-H1	MRTSUE11038	1 year	2022-11-11	WZ-AC2
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2022-10-28	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2022-12-01	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2023-01-13	WZ-AC2
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2022-12-29	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2022-09-16	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2022-11-12	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2023-06-21	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2023-04-21	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE06403	1 year	2023-06-06	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2022-12-29	WZ-AC1
Thermohygrometer	testo	Testo 608-H1	MRTSUE11039	1 year	2022-11-11	WZ-AC1
USB Power Sensor	Agilent	U2021XA	MRTSUE06030	1 year	2022-10-10	WZ-SR5
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2023-06-06	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5

Software	Version	Function
EMI V3	V3.0.0	EMI Test Software
Controller_MF 7802	1.02	RE Antenna & Turntable
Controller_MF 7802	2.03C	RE Antenna & Turntable
BenchVue Power Meter	2018.1	Power

5. Measurement Uncertainty

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

AC Conducted Emission Measurement
Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 9kHz~150kHz: 3.74dB 150kHz~30MHz: 3.44dB
Radiated Disturbance
Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): Horizontal: 30MHz~300MHz: 5.04dB 300MHz~1GHz: 4.95dB 1GHz~40GHz: 6.40dB Vertical: 30MHz~300MHz: 5.24dB 300MHz~1GHz: 6.03dB 1GHz~40GHz: 6.40dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.78dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.13dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.15dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.28%

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(a)(2)	6dB Bandwidth	Conducted	Pass
15.247(b)(3)	Output Power		Pass
15.247(e)	Power Spectral Density		Pass
15.247(d)	Band Edge / Out-of-Band Emissions		Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Remark:

The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

6.2. 6dB Bandwidth

6.2.1. Test Limit

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

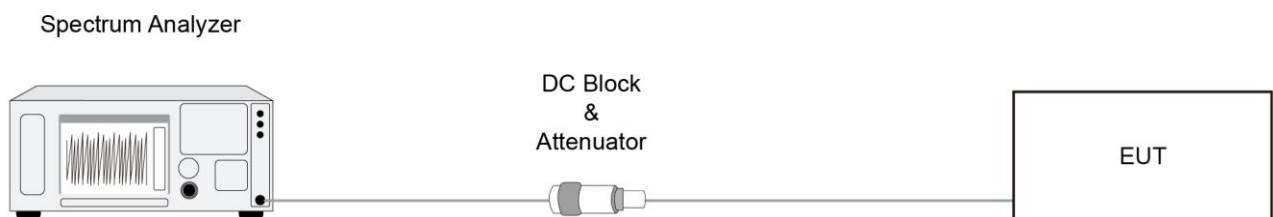
6.2.2. Test Procedure used

ANSI C63.10 - 2013 - Section 11.8

6.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Set RBW = 100 kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.2.

6.3. Output Power

6.3.1. Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.3.2. Test Procedure Used

ANSI C63.10 - 2013 - Section 11.9.2.3.2

6.3.3. Test Setting

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Power Spectral Density

6.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

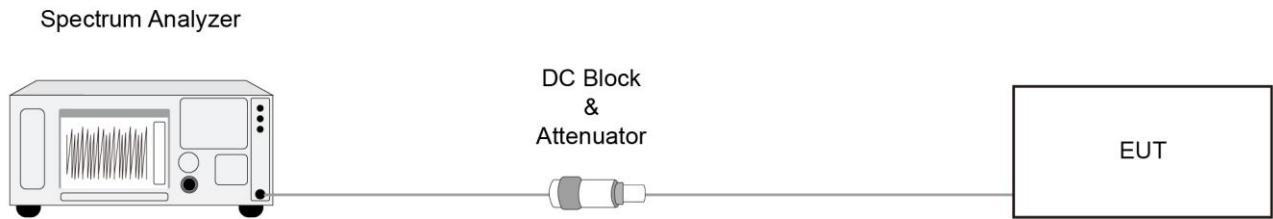
6.4.2. Test Procedure Used

ANSI C63.10 - 2013 - Section 11.10.5

6.4.3. Test Setting

1. Measure the duty cycle (x) of the transmitter output signal.
2. Set instrument center frequency to DTS channel center frequency.
3. Set span to at least 1.5 times the OBW.
4. RBW = 10 kHz.
5. VBW = 30 kHz.
6. Detector = RMS.
7. Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
8. Sweep time = auto couple.
9. Don't use sweep triggering. Allow sweep to "free run".
10. Employ trace averaging (RMS) mode over a minimum of 100 traces.
11. Use the peak marker function to determine the maximum amplitude level.
12. Add $10 \log (1/x)$, where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time. If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. Conducted Band Edge and Out-of-Band Emissions

6.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

6.5.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.11

6.5.3. Test Setting

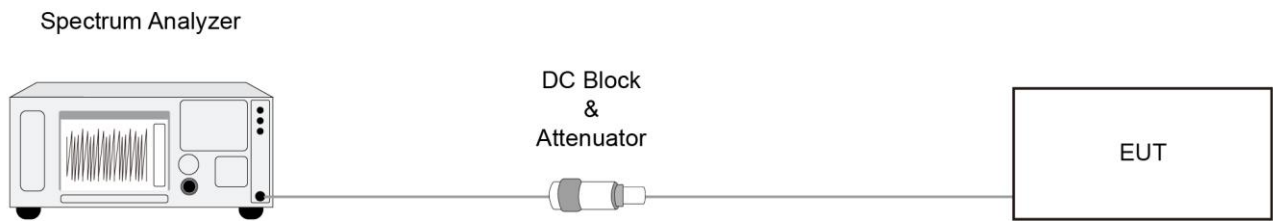
Reference level measurement

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW $\geq 3 \times$ RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.5.

6.6. Radiated Spurious Emission

6.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.6.2. Test Procedure Used

ANSI C63.10 - 2013 - Section 11.11 & 11.12

ANSI C63.10 - 2013 - Section 6.3 (General Requirements)

ANSI C63.10 - 2013 - Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 - Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 - Section 6.6 (Standard test method above 1GHz)

6.6.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

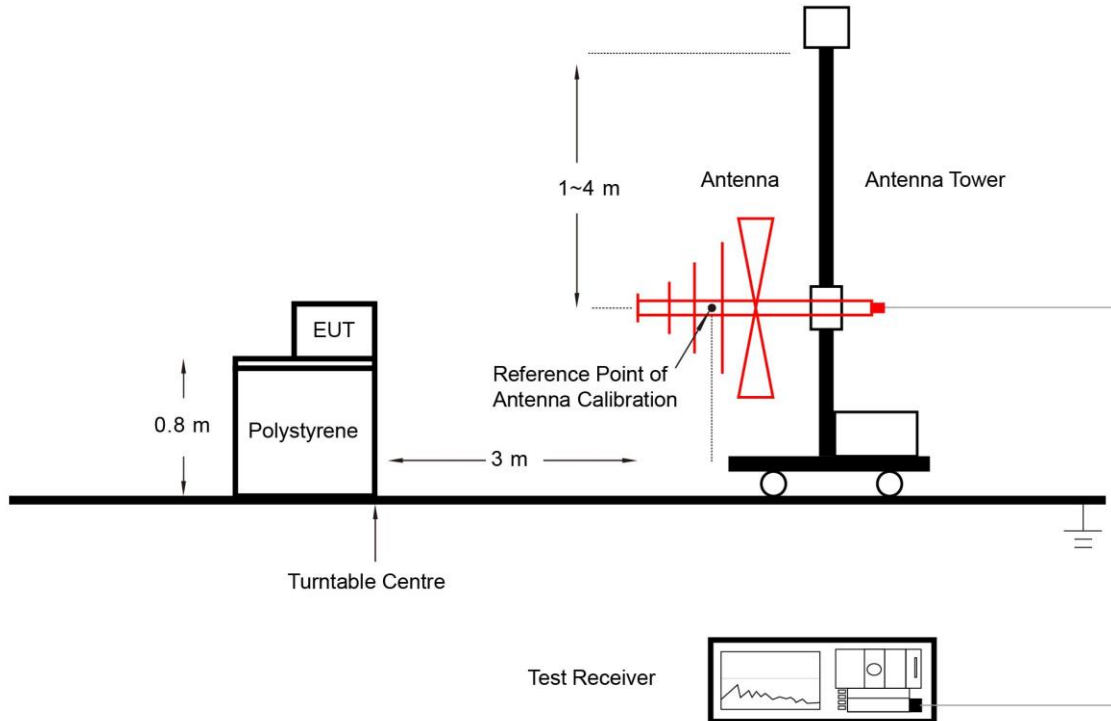
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

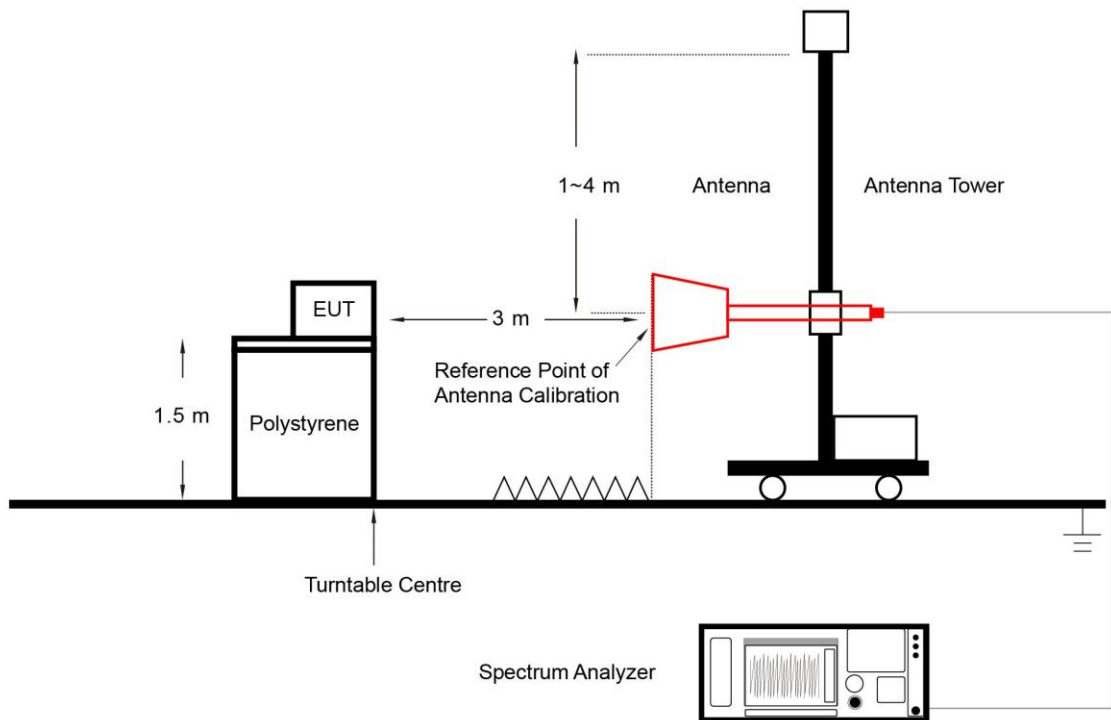
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

6.6.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.6.5. Test Result

Refer to Appendix A.6.

6.7. Radiated Restricted Band Edge

6.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.7.2. Test Procedure Used

ANSI C63.10-2013 Section 6.3

ANSI C63.10-2013 Section 6.6

ANSI C63.10-2013 Section 11.13

6.7.3. Test Setting

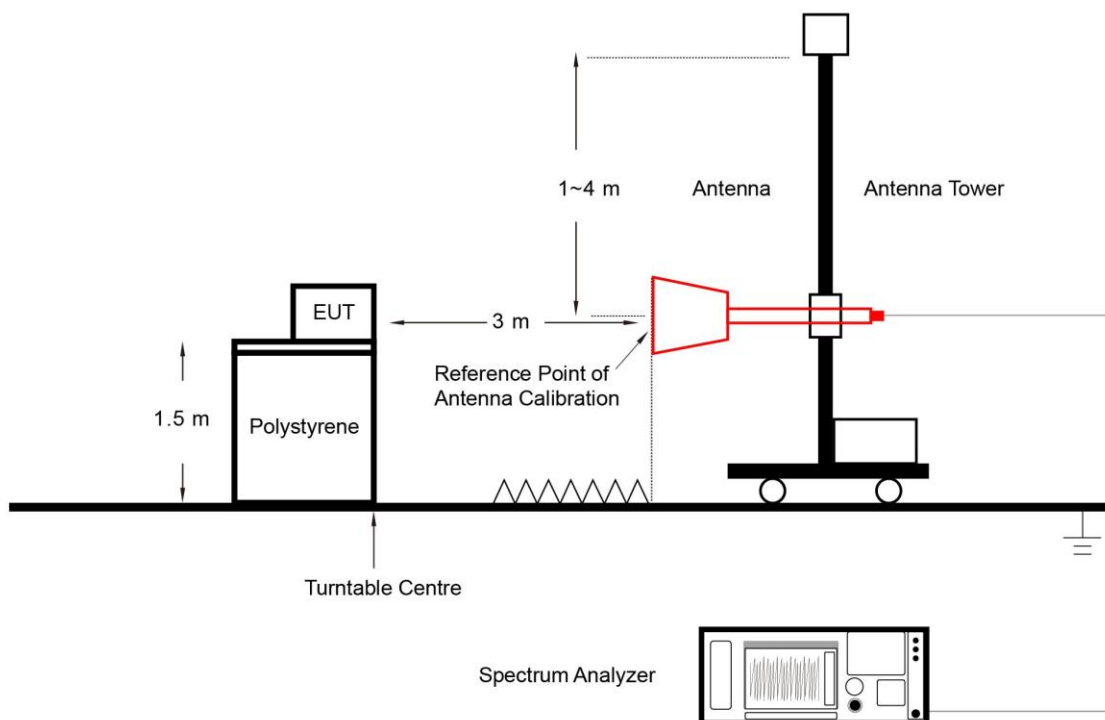
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.7.4. Test Setup



6.7.5. Test Result

Refer to Appendix A.7.

6.8. AC Conducted Emissions

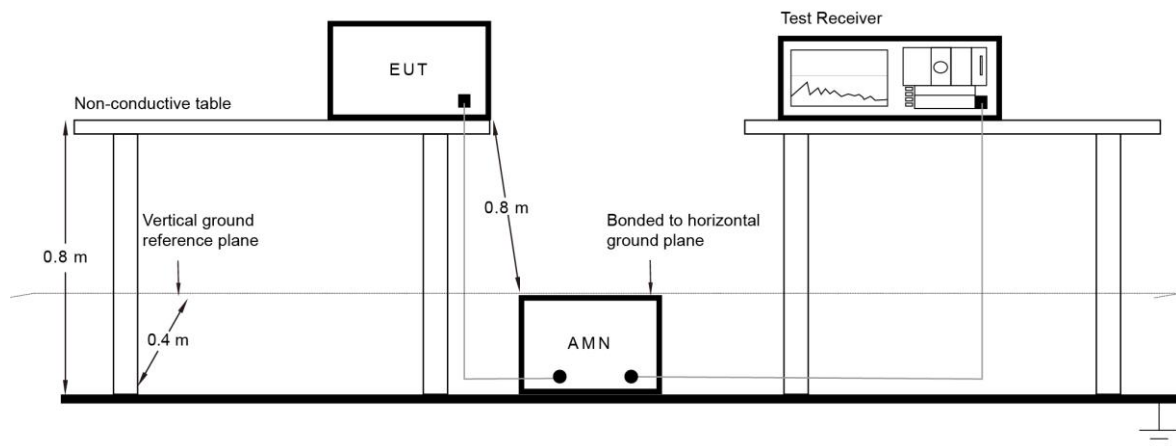
6.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.8.2. Test Setup

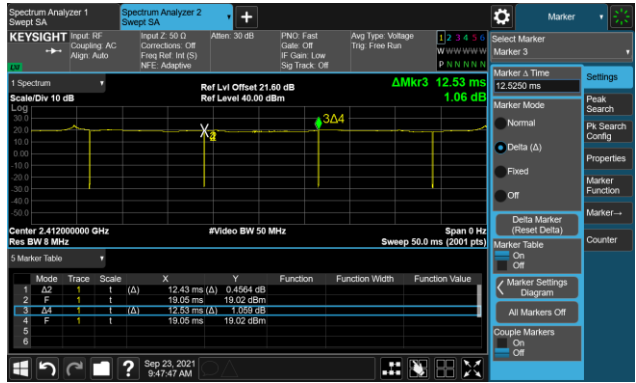
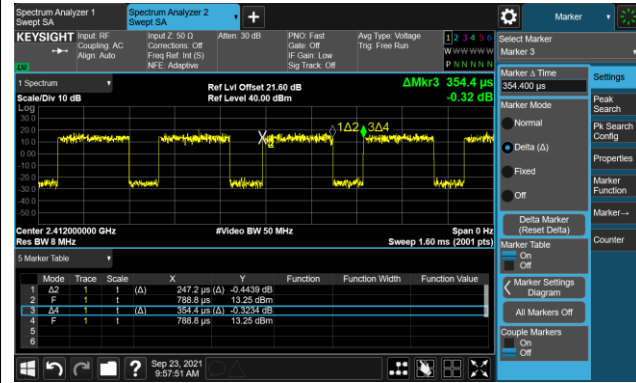
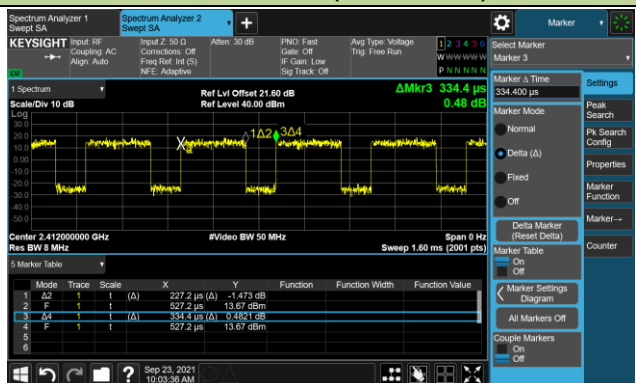
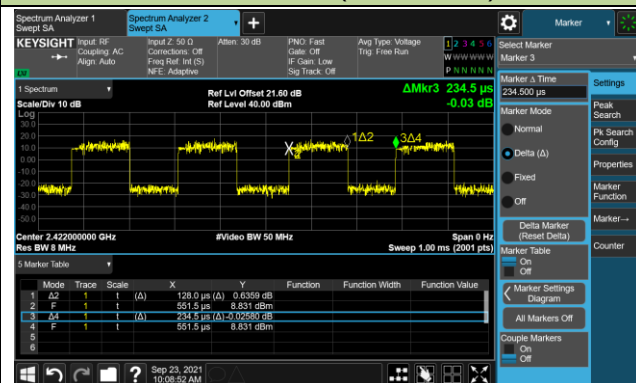


6.8.3. Test Result

Refer to Appendix A.8.

Appendix A – Test Result

A.1 Duty Cycle Test Result

Test Mode	Duty Cycle
802.11b	99.20%
802.11g	69.75%
802.11n-HT20	67.94%
802.11n-HT40	54.58%
Duty Cycle (T = Transmission Duration)	
802.11b (T = 12.43ms)	802.11g (T = 247.2us)
	
802.11n-HT20 (T = 227.2us)	802.11n-HT40 (T = 128.0us)
	

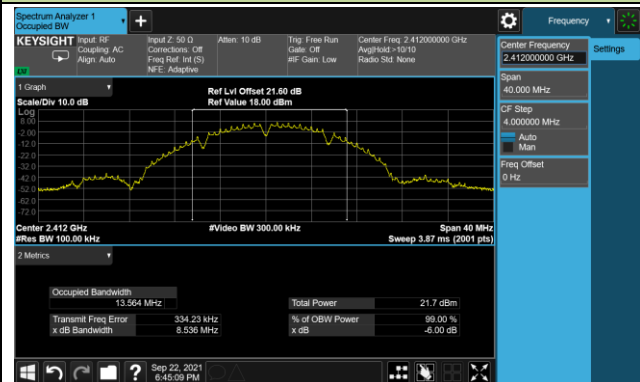
A.2 6dB Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2021/09/22		

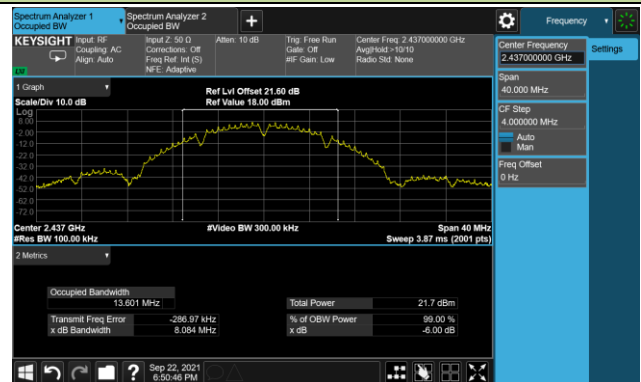
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11b	1Mbps	01	2412	8.536	≥ 0.5
11b	1Mbps	06	2437	8.084	≥ 0.5
11b	1Mbps	11	2462	7.098	≥ 0.5
11g	54Mbps	01	2412	16.42	≥ 0.5
11g	54Mbps	06	2437	16.47	≥ 0.5
11g	54Mbps	11	2462	16.43	≥ 0.5
11n-HT20	MCS7	01	2412	17.29	≥ 0.5
11n-HT20	MCS7	06	2437	17.05	≥ 0.5
11n-HT20	MCS7	11	2462	17.18	≥ 0.5
11n-HT40	MCS7	03	2422	35.13	≥ 0.5
11n-HT40	MCS7	06	2437	36.31	≥ 0.5
11n-HT40	MCS7	09	2452	35.16	≥ 0.5

802.11b 6dB Bandwidth

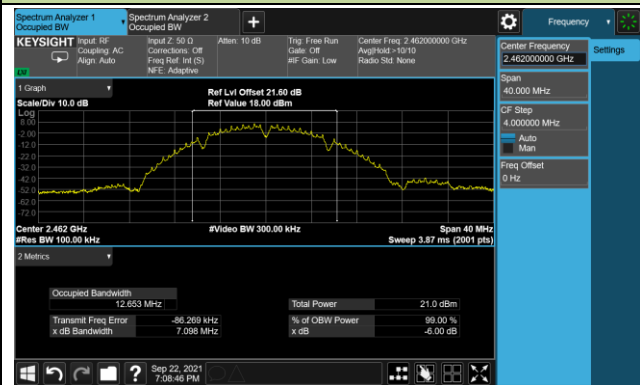
Channel 01 (2412MHz)



Channel 06 (2437MHz)

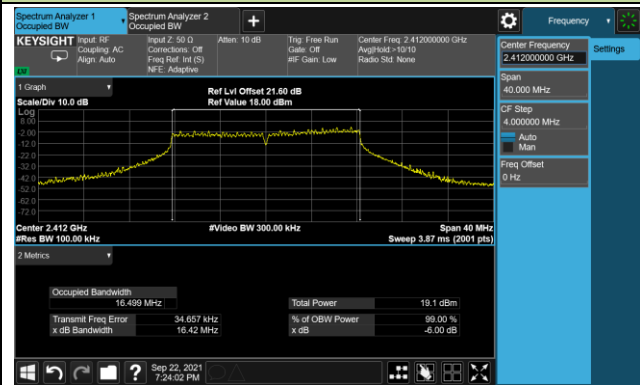


Channel 11 (2462MHz)

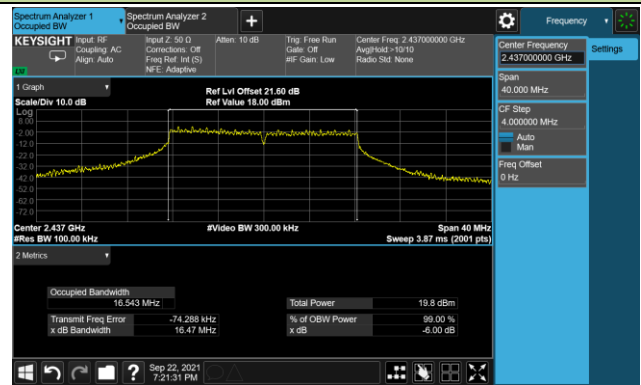


802.11g 6dB Bandwidth

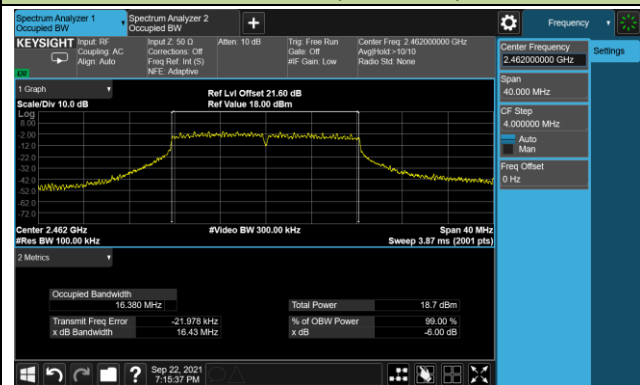
Channel 01 (2412MHz)



Channel 06 (2437MHz)

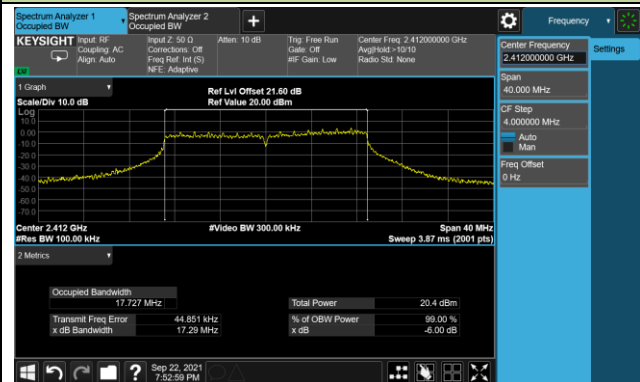


Channel 11 (2462MHz)

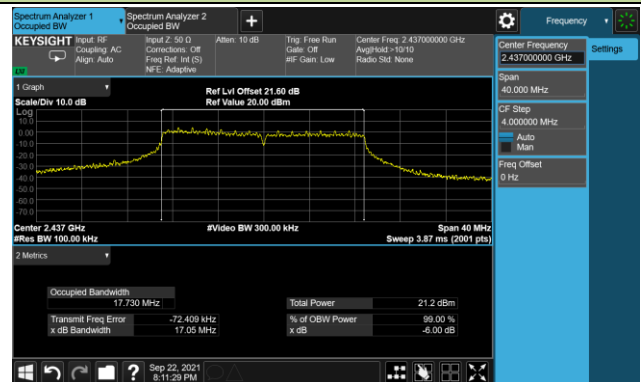


802.11n-HT20 6dB Bandwidth

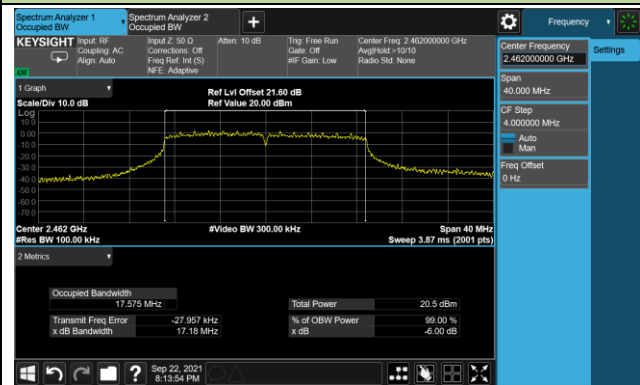
Channel 01 (2412MHz)



Channel 06 (2437MHz)

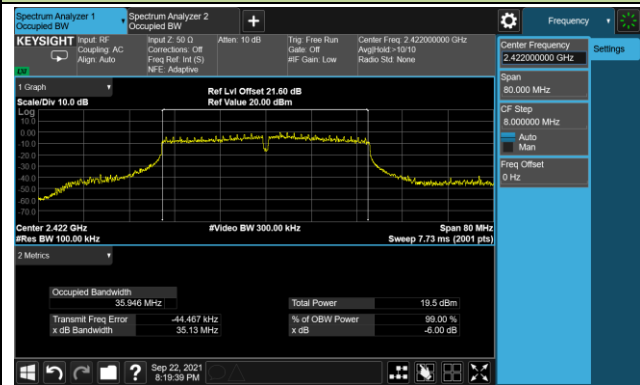


Channel 11 (2462MHz)

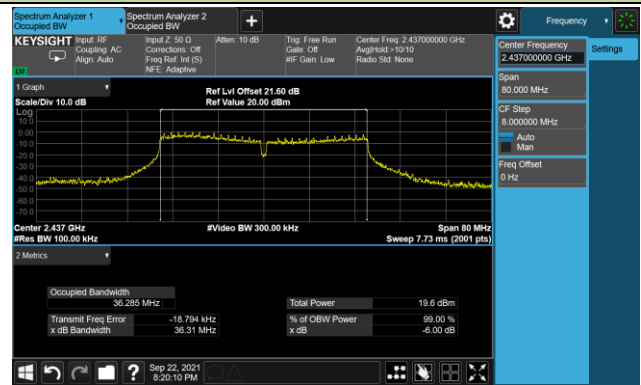


802.11n-HT40 6dB Bandwidth

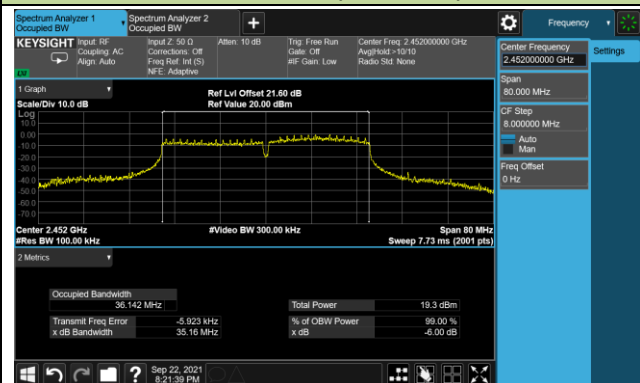
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



A.3 Output Power Test Result

Power output test was verified over all data rates of each mode shown as below, and then choose the maximum power output (gray marker) for final test of each channel.

Test Mode	Bandwidth (MHz)	Channel No.	Frequency (MHz)	Data Rate / MCS	Average Power (dBm)
802.11b	20	1	2412	1Mbps	18.71
				5.5Mbps	18.55
				11Mbps	18.48
802.11g	20	1	2412	6Mbps	16.06
				24Mbps	16.16
				54Mbps	16.27
802.11n	20	1	2412	MCS0	17.89
				MCS3	17.92
				MCS7	18.02
802.11n	40	3	2422	MCS0	12.24
				MCS3	12.38
				MCS7	12.48

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2021/12/01 ~ 2021/12/04		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Limit (dBm)
11b	1Mbps	01	2412	18.71	≤ 30.00
11b	1Mbps	06	2437	19.77	≤ 30.00
11b	1Mbps	11	2462	19.91	≤ 30.00
11g	54Mbps	01	2412	16.62	≤ 30.00
11g	54Mbps	06	2437	19.43	≤ 30.00
11g	54Mbps	09	2452	17.22	≤ 30.00
11g	54Mbps	10	2457	15.65	≤ 30.00
11g	54Mbps	11	2462	15.11	≤ 30.00
11n-HT20	MCS7	01	2412	17.25	≤ 30.00
11n-HT20	MCS7	06	2437	19.16	≤ 30.00
11n-HT20	MCS7	10	2457	16.04	≤ 30.00
11n-HT20	MCS7	11	2462	14.45	≤ 30.00
11n-HT40	MCS7	03	2422	13.78	≤ 30.00
11n-HT40	MCS7	06	2437	16.64	≤ 30.00
11n-HT40	MCS7	07	2442	13.57	≤ 30.00
11n-HT40	MCS7	08	2447	12.97	≤ 30.00
11n-HT40	MCS7	09	2452	12.93	≤ 30.00

Verified Data

Test Site	WZ-SR5	Test Engineer	Dandy Li
Test Date	2022/07/26		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Limit (dBm)
11b	1Mbps	01	2412	18.12	≤ 30.00
11b	1Mbps	06	2437	19.72	≤ 30.00
11b	1Mbps	11	2462	18.43	≤ 30.00
11g	6Mbps	01	2412	16.43	≤ 30.00
11g	6Mbps	06	2437	18.65	≤ 30.00
11g	6Mbps	11	2462	14.92	≤ 30.00
11n-HT20	MCS0	01	2412	17.08	≤ 30.00
11n-HT20	MCS0	06	2437	18.53	≤ 30.00
11n-HT20	MCS0	11	2462	13.87	≤ 30.00
11n-HT40	MCS0	03	2422	13.43	≤ 30.00
11n-HT40	MCS0	06	2437	16.59	≤ 30.00
11n-HT40	MCS0	09	2452	12.86	≤ 30.00

A.4 Power Spectral Density Test Result

Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2021/12/01 ~ 2021/12/03		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AV PSD (dBm/10kHz)	Duty Cycle (%)	10*log (1/x)	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Result
11b	1Mbps	01	2412	-9.53	99.20	0.03	-9.53	≤ 8.00	Pass
11b	1Mbps	06	2437	-9.16	99.20	0.03	-9.16	≤ 8.00	Pass
11b	1Mbps	11	2462	-6.29	99.20	0.03	-6.29	≤ 8.00	Pass
11g	54Mbps	01	2412	-10.13	69.75	1.56	-8.56	≤ 8.00	Pass
11g	54Mbps	06	2437	-11.65	69.75	1.56	-10.08	≤ 8.00	Pass
11g	54Mbps	11	2462	-13.02	69.75	1.56	-11.46	≤ 8.00	Pass
11n-HT20	MCS7	01	2412	-11.12	67.94	1.68	-9.44	≤ 8.00	Pass
11n-HT20	MCS7	06	2437	-9.69	67.94	1.68	-8.01	≤ 8.00	Pass
11n-HT20	MCS7	11	2462	-12.81	67.94	1.68	-11.13	≤ 8.00	Pass
11n-HT40	MCS7	03	2422	-14.72	54.58	2.63	-12.09	≤ 8.00	Pass
11n-HT40	MCS7	06	2437	-11.51	54.58	2.63	-8.88	≤ 8.00	Pass
11n-HT40	MCS7	09	2452	-14.72	54.58	2.63	-11.51	≤ 8.00	Pass

Note:

When EUT duty cycle > 98%, Total AVGPSPD = $10 \cdot \log \{10^{(\text{Ant } 0 \text{ AVGPSPD}/10)} + 10^{(\text{Ant } 1 \text{ AVGPSPD}/10)}\}$

When EUT duty cycle ≤ 98%, Total AVGPSPD = $10 \cdot \log \{10^{(\text{Ant } 0 \text{ AVGPSPD}/10)} + 10^{(\text{Ant } 1 \text{ AVGPSPD}/10)}\} + 10 \cdot \log (1/\text{Duty Cycle})$.

802.11b – AV PSD

Channel 01 (2412MHz)



Channel 06 (2437MHz)

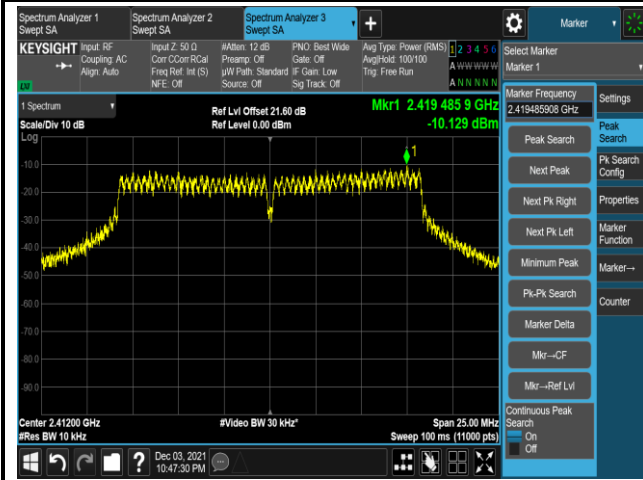


Channel 11 (2462MHz)

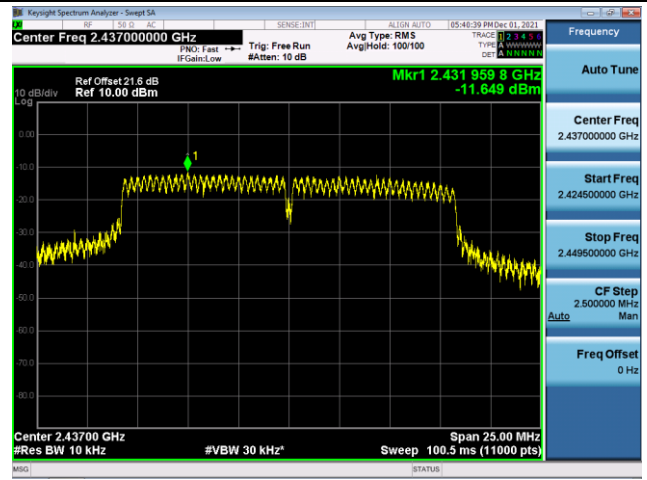


802.11g – AV PSD

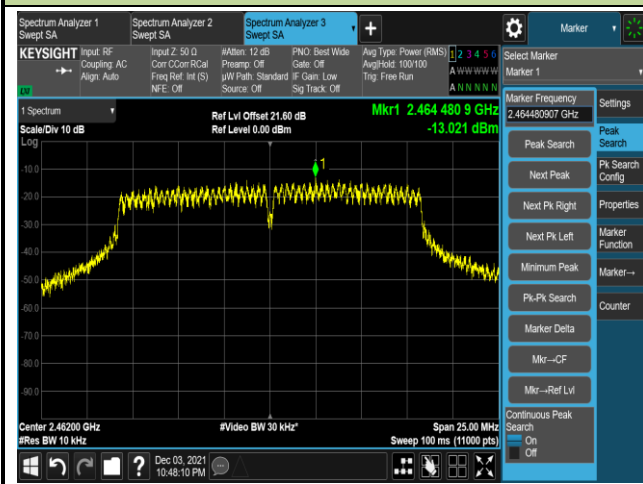
Channel 01 (2412MHz)



Channel 06 (2437MHz)

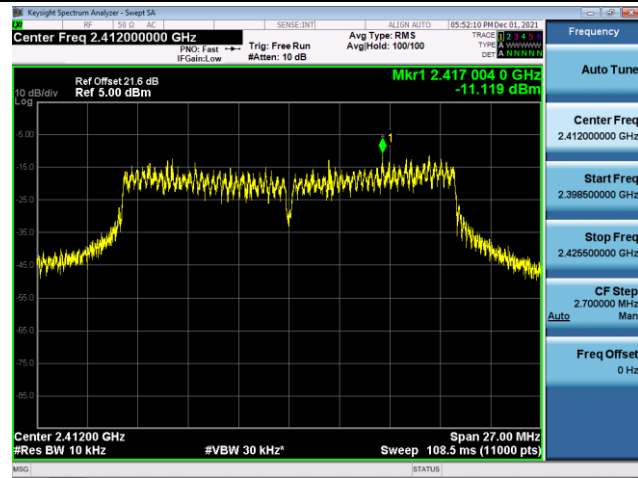


Channel 11 (2462MHz)

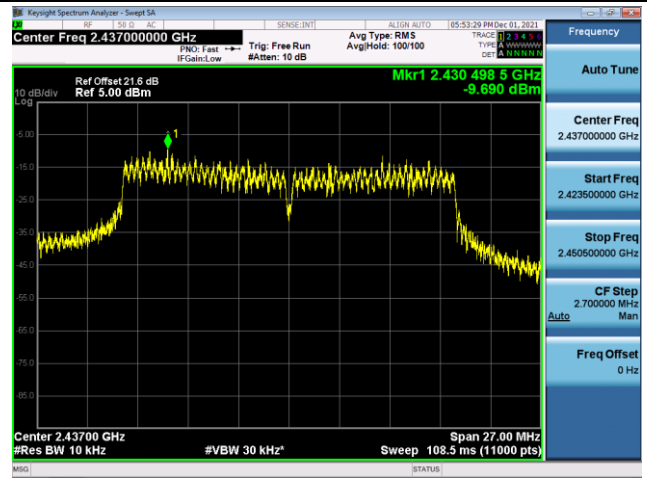


802.11n-HT20 – AV PSD

Channel 01 (2412MHz)



Channel 06 (2437MHz)

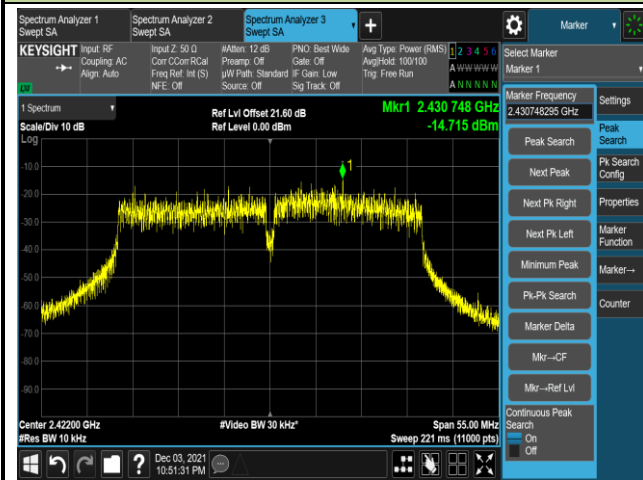


Channel 11 (2462MHz)



802.11n-HT40 – AV PSD

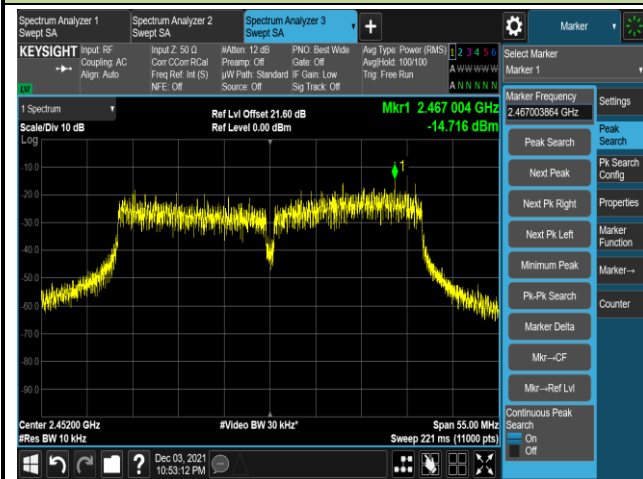
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



A.5 Conducted Band Edge and Out-of-Band Emissions Test Result

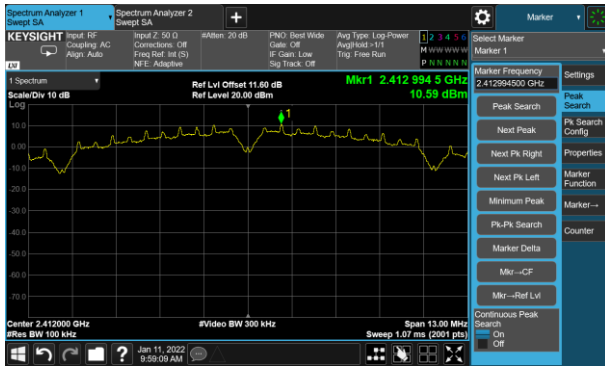
Test Site	WZ-SR5	Test Engineer	Liz Yuan
Test Date	2022/01/11		

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit
11b	1Mbps	01	2412	30dBc
11b	1Mbps	06	2437	30dBc
11b	1Mbps	11	2462	30dBc
11g	54Mbps	01	2412	30dBc
11g	54Mbps	06	2437	30dBc
11g	54Mbps	11	2462	30dBc
11n-HT20	MCS7	01	2412	30dBc
11n-HT20	MCS7	06	2437	30dBc
11n-HT20	MCS7	11	2462	30dBc
11n-HT40	MCS7	03	2422	30dBc
11n-HT40	MCS7	06	2437	30dBc
11n-HT40	MCS7	09	2452	30dBc

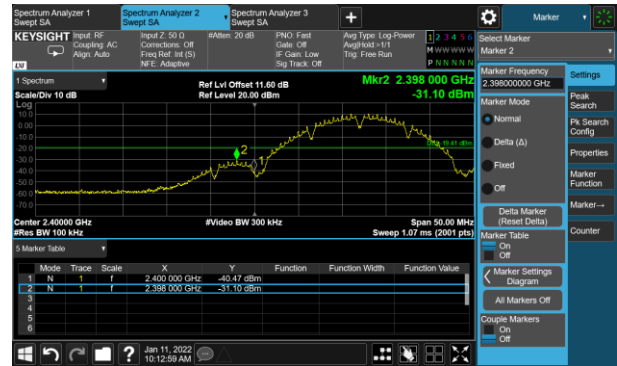
802.11b Out-of-Band Emissions

Channel 01 (2412MHz)

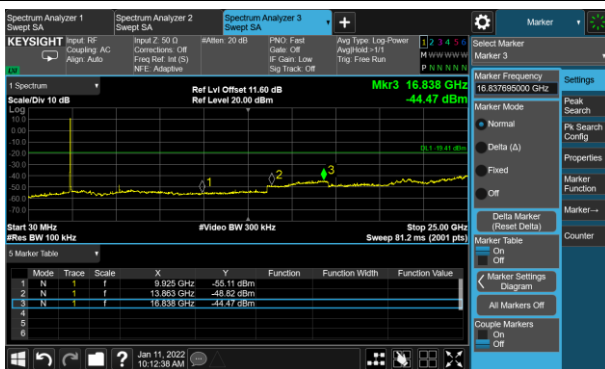
Reference Level



Low Band Edge

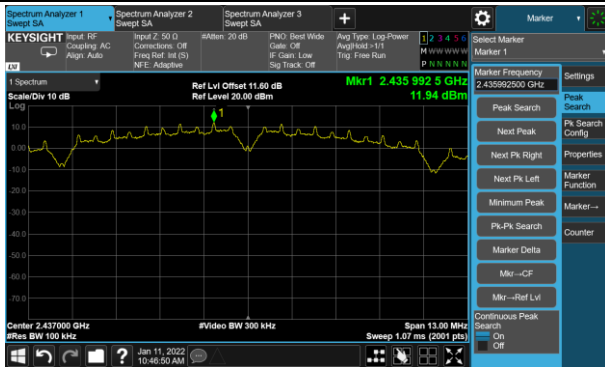


Spurious Emission



Channel 06 (2437MHz)

Reference Level

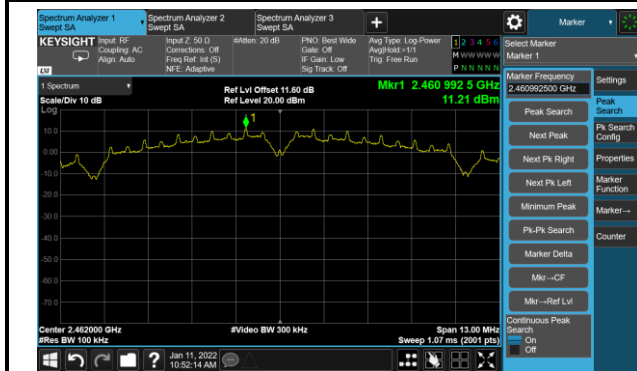


Spurious Emission



Channel 11 (2462MHz)

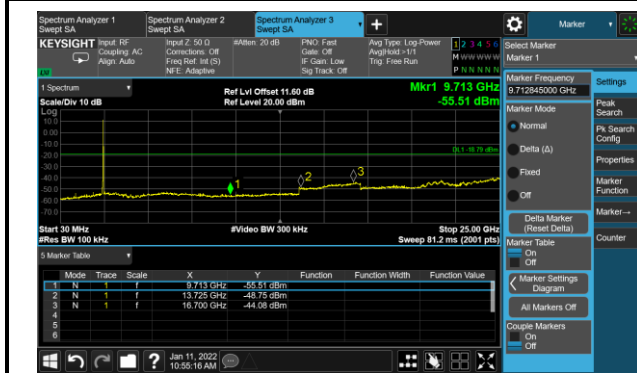
Reference Level



High Band Edge



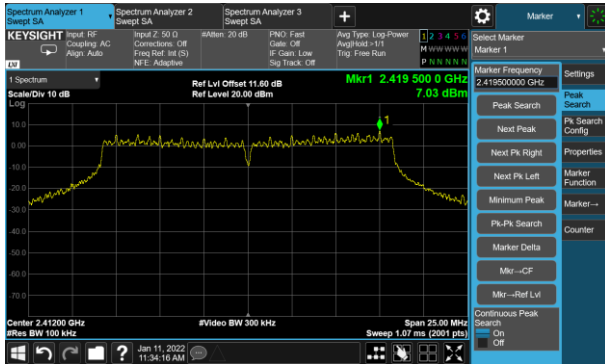
Spurious Emission



802.11g Out-of-Band Emissions

Channel 01 (2412MHz)

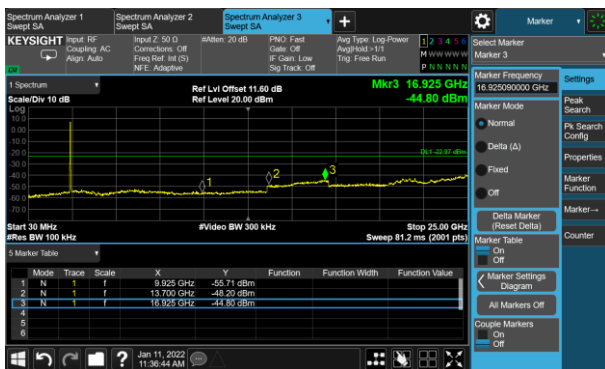
Reference Level



Low Band Edge

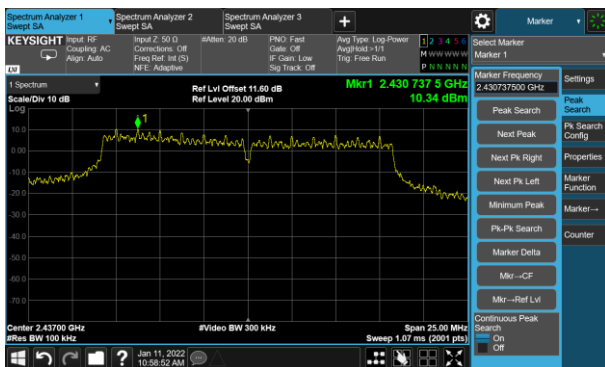


Spurious Emission

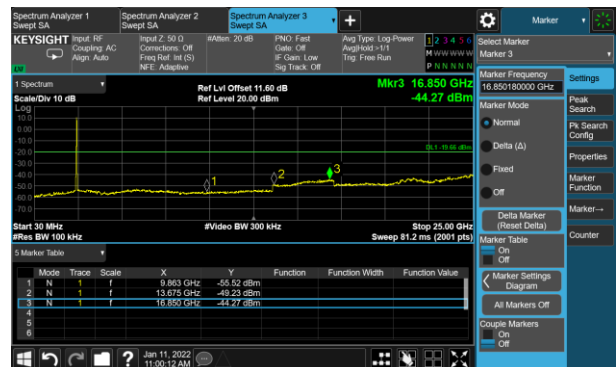


Channel 06 (2437MHz)

Reference Level

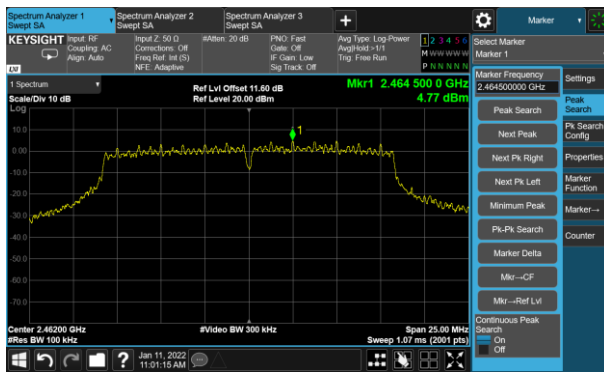


Spurious Emission



Channel 11 (2462MHz)

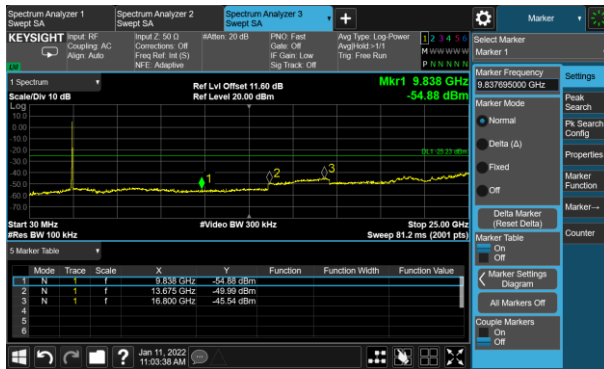
Reference Level



High Band Edge



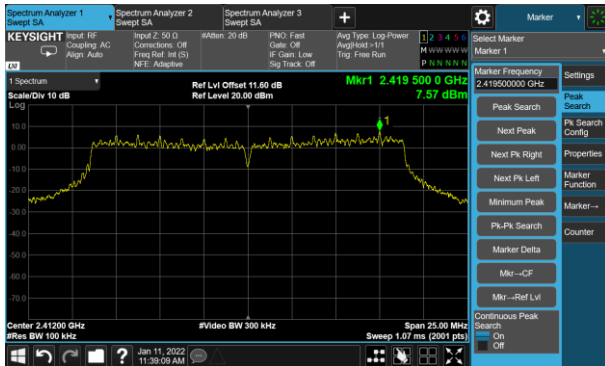
Spurious Emission



802.11n-HT20 Out-of-Band Emissions

Channel 01 (2412MHz)

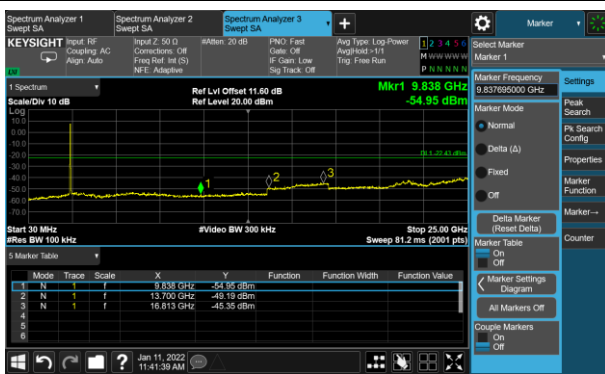
Reference Level



Low Band Edge



Spurious Emission

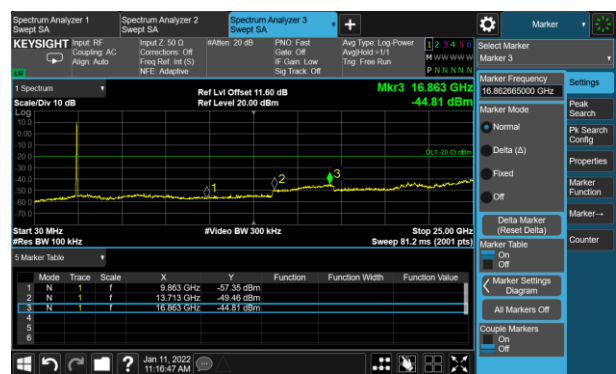


Channel 06 (2437MHz)

Reference Level



Spurious Emission

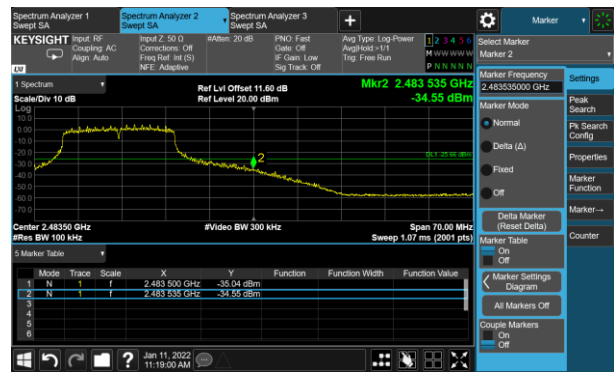


Channel 11 (2462MHz)

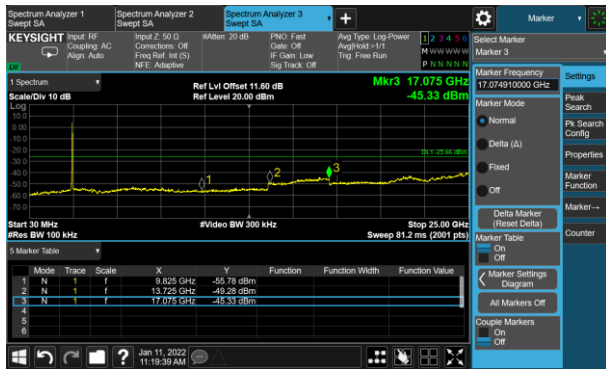
Reference Level



High Band Edge



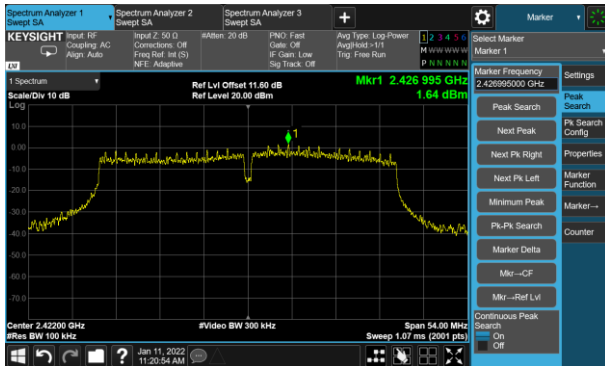
Spurious Emission



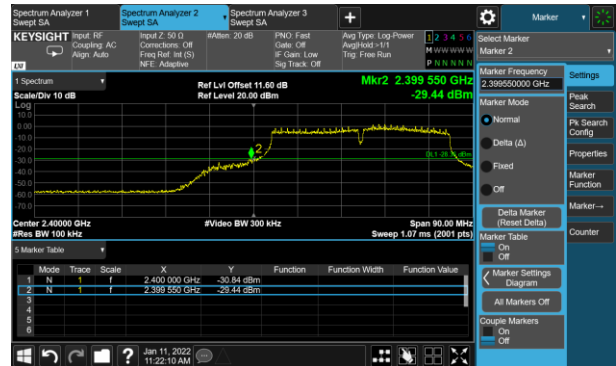
802.11n-HT40 Out-of-Band Emissions

Channel 03 (2422MHz)

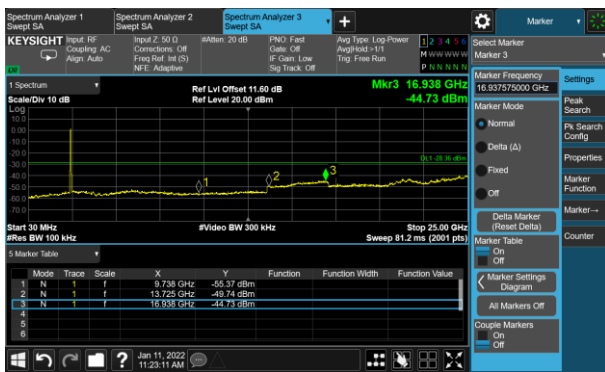
Reference Level



Low Band Edge

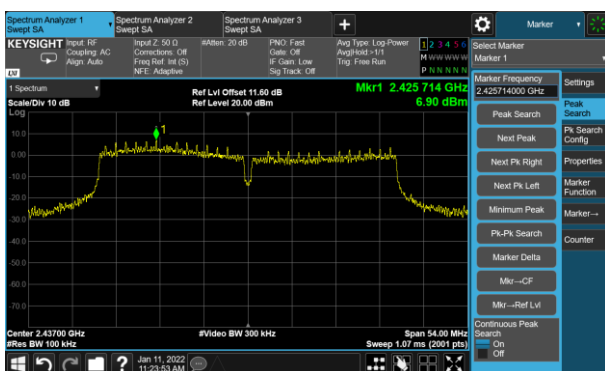


Spurious Emission

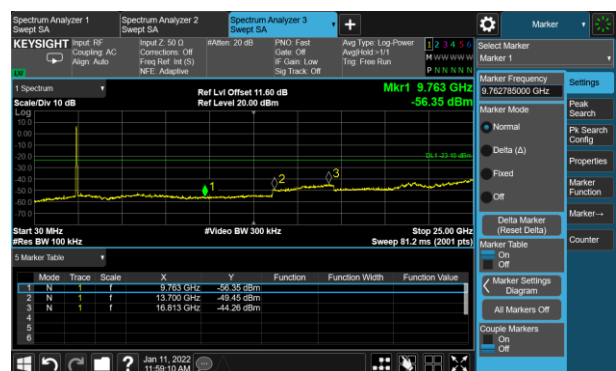


Channel 06 (2437MHz)

Reference Level

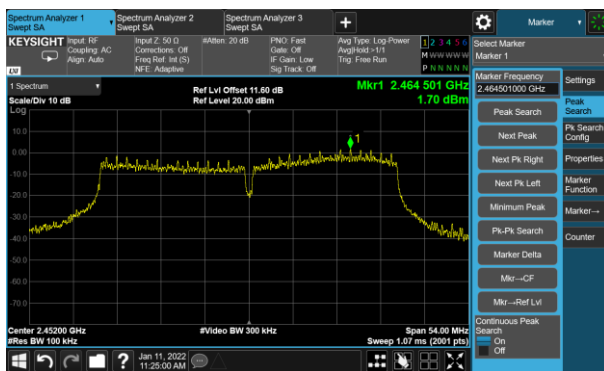


Spurious Emission



Channel 09 (2452MHz)

Reference Level



High Band Edge



Spurious Emission



A.6 Radiated Spurious Emission Test Result

Test Site	WZ-AC2	Test Engineer	Bob Zhang
Test Date	2022-07-20	Test Mode:	802.11b
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	5037.500	32.2	3.8	36.0	74.0	-38.0	Peak	Horizontal
	8242.000	30.0	11.6	41.6	74.0	-32.4	Peak	Horizontal
	11276.500	27.4	17.7	45.1	74.0	-28.9	Peak	Horizontal
	3864.500	34.8	0.0	34.8	74.0	-39.2	Peak	Vertical
	4927.000	32.5	3.8	36.3	74.0	-37.7	Peak	Vertical
	12322.000	31.0	17.7	48.7	74.0	-25.3	Peak	Vertical
06	3915.500	34.4	0.0	34.4	74.0	-39.6	Peak	Horizontal
	4876.000	38.8	3.8	42.6	74.0	-31.4	Peak	Horizontal
	11378.500	27.6	17.6	45.2	74.0	-28.8	Peak	Horizontal
	3890.000	36.8	0.2	37.0	74.0	-37.0	Peak	Vertical
	4876.000	35.5	3.8	39.3	74.0	-34.7	Peak	Vertical
	11667.500	31.1	17.7	48.8	74.0	-25.2	Peak	Vertical
11	3975.000	36.3	0.1	36.4	74.0	-37.6	Peak	Horizontal
	4986.500	31.9	3.8	35.7	74.0	-38.3	Peak	Horizontal
	11659.000	30.4	17.9	48.3	74.0	-25.7	Peak	Horizontal
	3966.500	37.3	0.2	37.5	74.0	-36.5	Peak	Vertical
	4621.000	35.3	4.2	39.5	74.0	-34.5	Peak	Vertical
	10987.500	32.0	17.0	49.0	74.0	-25.0	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Bob Zhang
Test Date	2022-07-20	Test Mode:	802.11g
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4272.500	36.1	1.7	37.8	74.0	-36.2	Peak	Horizontal
	4825.000	36.1	4.0	40.1	74.0	-33.9	Peak	Horizontal
	11616.500	32.0	17.7	49.7	74.0	-24.3	Peak	Horizontal
	3958.000	36.5	0.3	36.8	74.0	-37.2	Peak	Vertical
	4808.000	34.7	4.1	38.8	74.0	-35.2	Peak	Vertical
	11489.000	31.2	17.5	48.7	74.0	-25.3	Peak	Vertical
06	3966.500	36.6	0.2	36.8	74.0	-37.2	Peak	Horizontal
	4876.000	35.0	3.8	38.8	74.0	-35.2	Peak	Horizontal
	11225.500	28.8	17.4	46.2	74.0	-27.8	Peak	Horizontal
	3949.500	36.2	0.2	36.4	74.0	-37.6	Peak	Vertical
	4604.000	33.1	4.0	37.1	74.0	-36.9	Peak	Vertical
	11191.500	31.1	17.5	48.6	74.0	-25.4	Peak	Vertical
11	4323.500	34.2	2.0	36.2	74.0	-37.8	Peak	Horizontal
	4986.500	33.0	3.8	36.8	74.0	-37.2	Peak	Horizontal
	11633.500	28.3	17.7	46.0	74.0	-28.0	Peak	Horizontal
	3958.000	36.2	0.3	36.5	74.0	-37.5	Peak	Vertical
	4663.500	34.1	4.1	38.2	74.0	-35.8	Peak	Vertical
	11650.500	30.7	17.9	48.6	74.0	-25.4	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Bob Zhang
Test Date	2022-07-20	Test Mode:	802.11n-HT20
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4255.500	35.3	1.6	36.9	74.0	-37.1	Peak	Horizontal
	5037.500	32.7	3.8	36.5	74.0	-37.5	Peak	Horizontal
	11378.500	29.1	17.6	46.7	74.0	-27.3	Peak	Horizontal
	4026.000	34.5	0.3	34.8	74.0	-39.2	Peak	Vertical
	4621.000	34.9	4.2	39.1	74.0	-34.9	Peak	Vertical
	11591.000	30.0	17.9	47.9	74.0	-26.1	Peak	Vertical
06	4094.000	35.8	0.8	36.6	74.0	-37.4	Peak	Horizontal
	4901.500	35.1	3.8	38.9	74.0	-35.1	Peak	Horizontal
	11591.000	30.0	17.9	47.9	74.0	-26.1	Peak	Horizontal
	4136.500	36.0	0.8	36.8	74.0	-37.2	Peak	Vertical
	4944.000	33.7	3.8	37.5	74.0	-36.5	Peak	Vertical
	11378.500	28.0	17.6	45.6	74.0	-28.4	Peak	Vertical
11	4094.000	33.9	0.8	34.7	74.0	-39.3	Peak	Horizontal
	4774.000	32.4	4.6	37.0	74.0	-37.0	Peak	Horizontal
	11174.500	29.3	17.1	46.4	74.0	-27.6	Peak	Horizontal
	3983.500	36.3	0.2	36.5	74.0	-37.5	Peak	Vertical
	4927.000	32.9	3.8	36.7	74.0	-37.3	Peak	Vertical
	11242.500	30.7	17.3	48.0	74.0	-26.0	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC2	Test Engineer	Bob Zhang
Test Date	2022-07-20	Test Mode:	802.11n-HT40
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

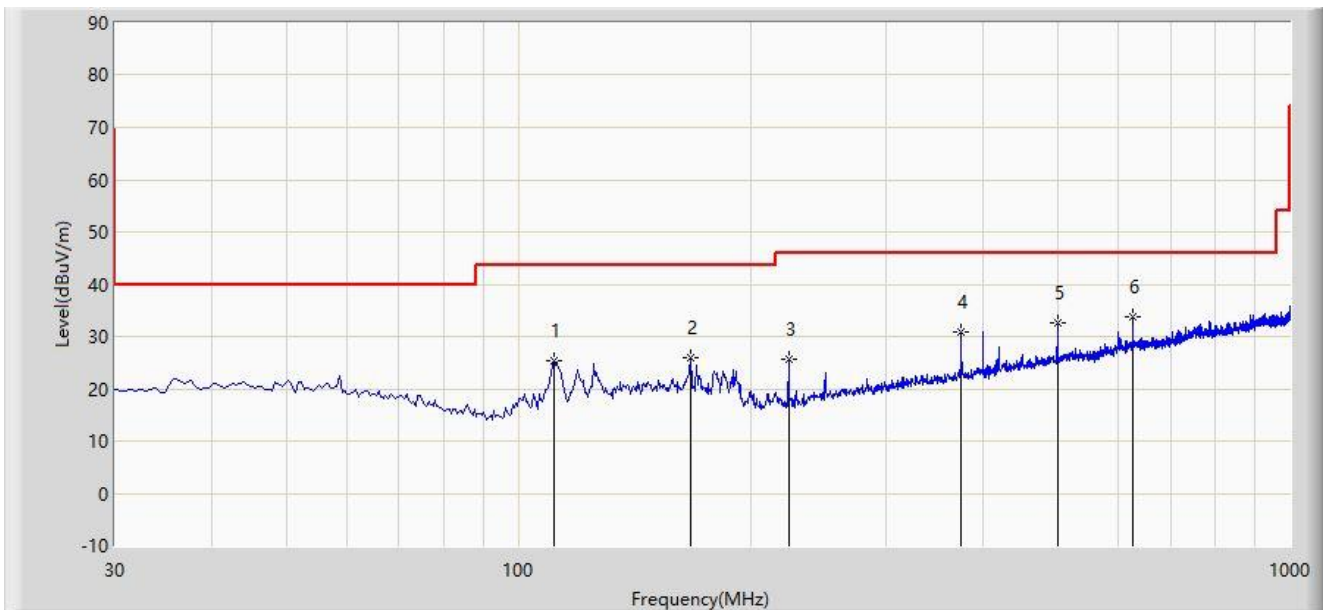
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
03	3762.500	34.0	-0.4	33.6	74.0	-40.4	Peak	Horizontal
	4774.000	32.4	4.6	37.0	74.0	-37.0	Peak	Horizontal
	11123.500	29.3	17.2	46.5	74.0	-27.5	Peak	Horizontal
	3958.000	36.4	0.3	36.7	74.0	-37.3	Peak	Vertical
	4901.500	33.5	3.8	37.3	74.0	-36.7	Peak	Vertical
	11123.500	29.3	17.2	46.5	74.0	-27.5	Peak	Vertical
06	3975.000	35.4	0.1	35.5	74.0	-38.5	Peak	Horizontal
	4748.500	32.8	4.5	37.3	74.0	-36.7	Peak	Horizontal
	11429.500	27.5	17.7	45.2	74.0	-28.8	Peak	Horizontal
	4187.500	34.9	1.1	36.0	74.0	-38.0	Peak	Vertical
	4689.000	32.1	4.5	36.6	74.0	-37.4	Peak	Vertical
	11429.500	27.5	17.7	45.2	74.0	-28.8	Peak	Vertical
09	4187.500	34.4	1.1	35.5	74.0	-38.5	Peak	Horizontal
	4791.000	32.3	4.3	36.6	74.0	-37.4	Peak	Horizontal
	11599.500	30.8	17.8	48.6	74.0	-25.4	Peak	Horizontal
	4043.000	34.1	0.4	34.5	74.0	-39.5	Peak	Vertical
	4859.000	32.9	3.8	36.7	74.0	-37.3	Peak	Vertical
	11514.500	31.4	17.6	49.0	74.0	-25.0	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Worst-Case Result of Radiated Emission below 1GHz:

Site: WZ-AC1	Test Date: 2022/07/27
Limit: FCC_2.4G_RE(3m)	Engineer: Carl Jiang
Probe: WZ-AC1_VULB9162	Polarity: Horizontal
Wireless Audio Source Adapter	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2437MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		111.480	25.266	10.404	-18.234	43.500	14.862	PK
2		167.255	26.058	8.098	-17.442	43.500	17.959	PK
3		224.000	25.524	10.916	-20.476	46.000	14.608	PK
4		374.835	30.774	10.538	-15.226	46.000	20.236	PK
5		499.965	32.544	9.415	-13.456	46.000	23.129	PK
6	*	625.095	33.819	7.859	-12.181	46.000	25.959	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

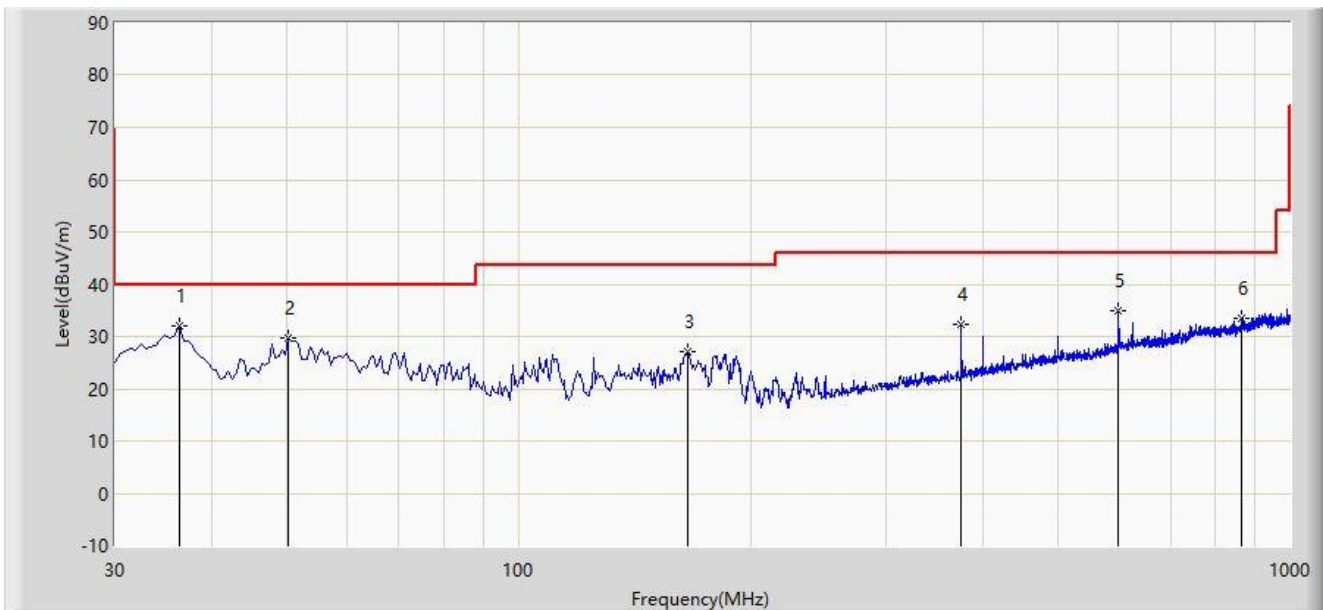
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Site: WZ-AC1	Test Date: 2022/07/27
Limit: FCC_2.4G_RE(3m)	Engineer: Carl Jiang
Probe: WZ-AC1_VULB9162	Polarity: Vertical
Wireless Audio Source Adapter	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2437MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	36.305	31.905	14.044	-8.095	40.000	17.862	PK
2		50.370	29.625	11.407	-10.375	40.000	18.218	PK
3		165.800	27.150	9.113	-16.350	43.500	18.037	PK
4		374.835	32.234	11.998	-13.766	46.000	20.236	PK
5		599.875	34.949	9.490	-11.051	46.000	25.459	PK
6		864.200	33.448	4.336	-12.552	46.000	29.112	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

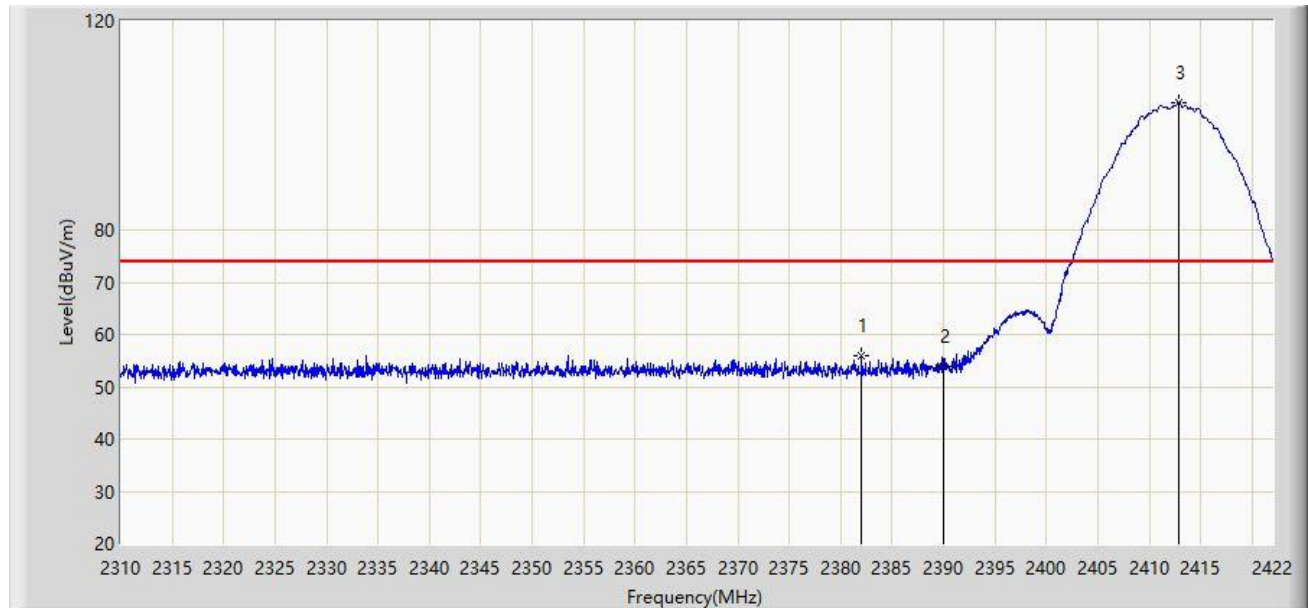
Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

A.7 Radiated Restricted Band Edge Test Result

Site: WZ-AC2	Time: 2022/07/16 - 11:34
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
Wireless Audio Source Adapter	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



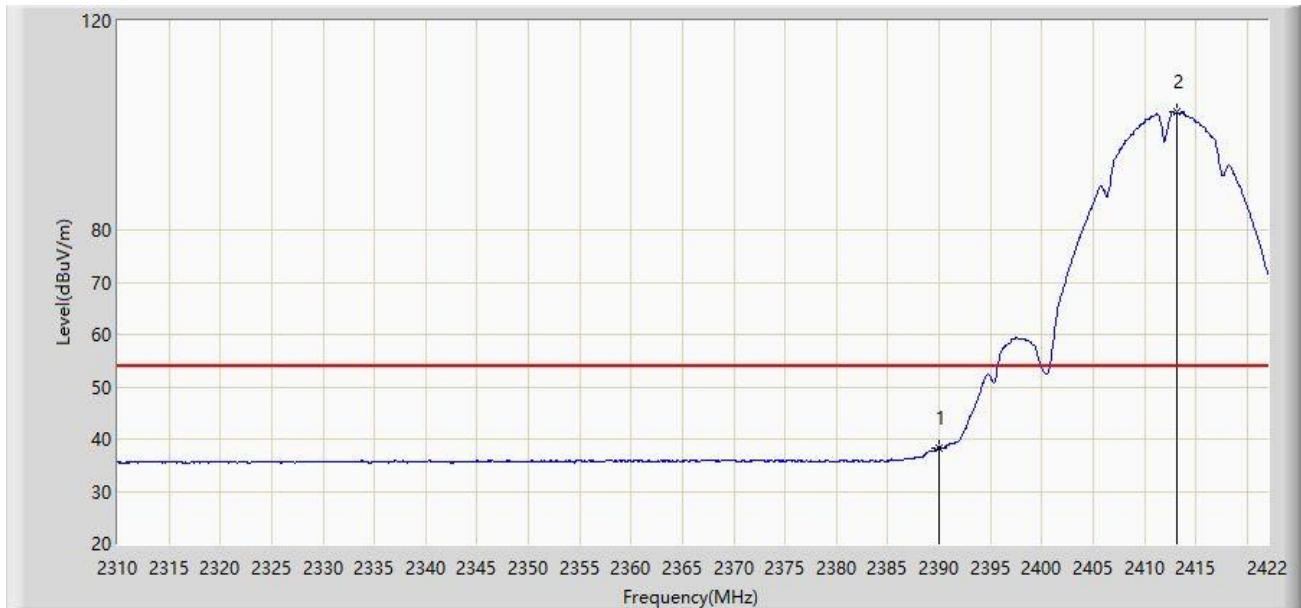
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2382.016	56.052	24.583	-17.948	74.000	31.469	PK
2		2390.000	53.831	22.398	-20.169	74.000	31.433	PK
3		2412.872	104.326	72.969	N/A	N/A	31.356	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Time: 2022/07/16 - 11:40
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
Wireless Audio Source Adapter	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



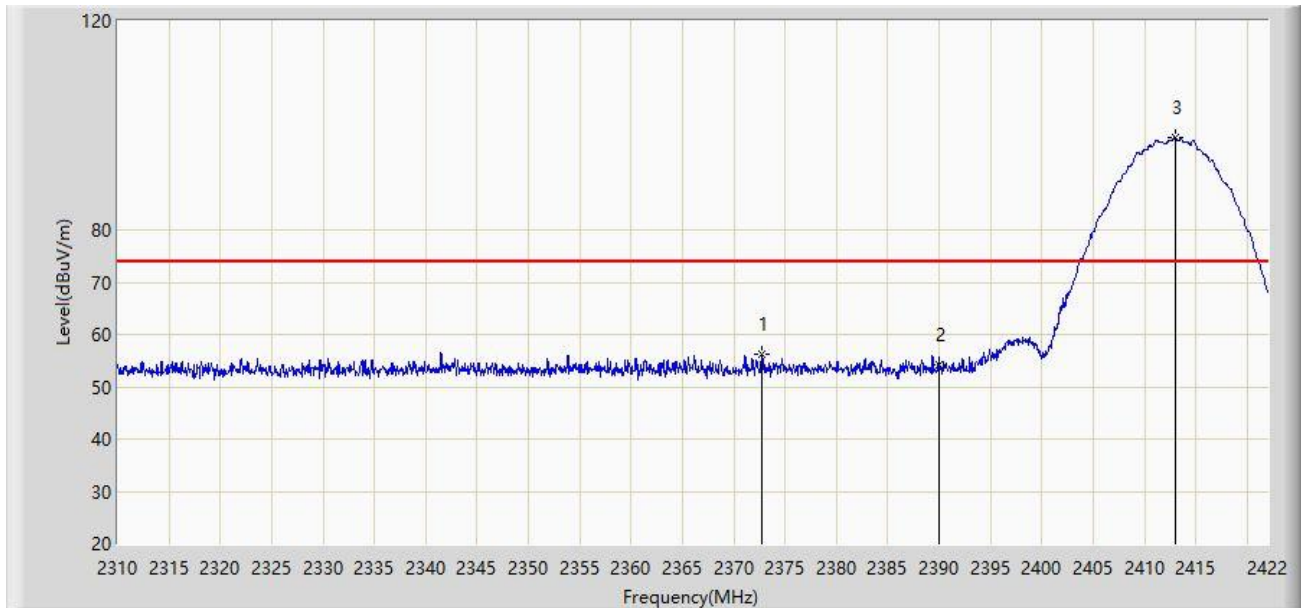
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2390.000	38.334	6.901	-15.666	54.000	31.433	AV
2		2413.208	102.476	71.120	N/A	N/A	31.356	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Time: 2022/07/16 - 12:10
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
Wireless Audio Source Adapter	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



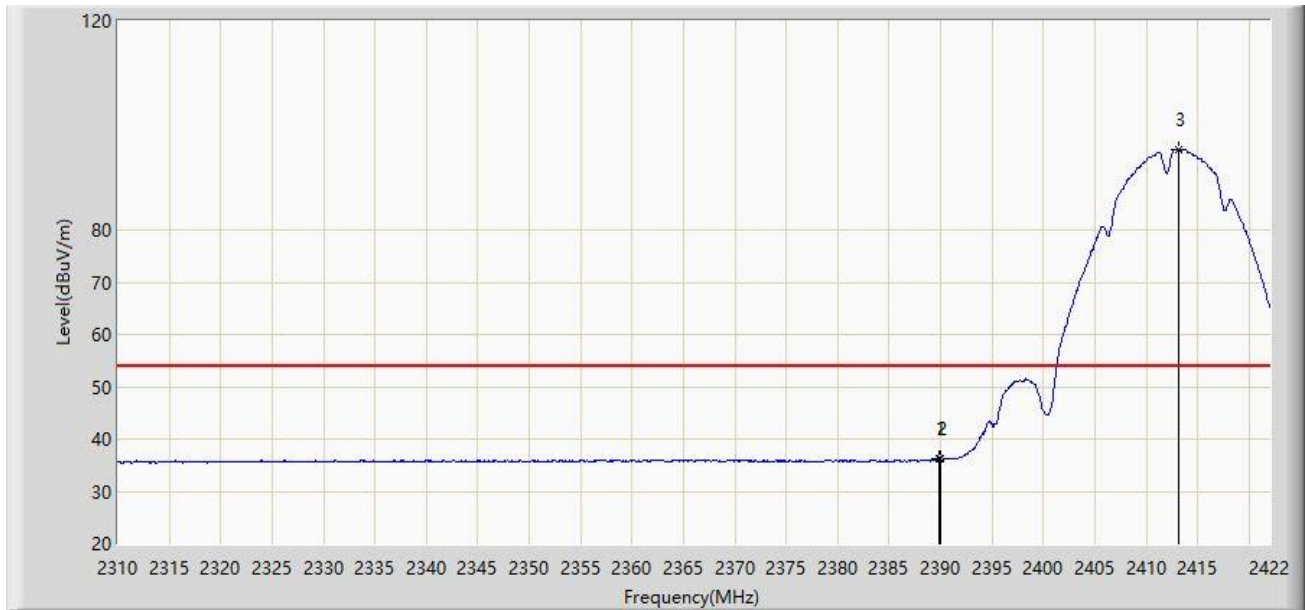
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2372.776	56.311	24.815	-17.689	74.000	31.496	PK
2		2390.000	54.282	22.849	-19.718	74.000	31.433	PK
3		2413.040	97.645	66.289	N/A	N/A	31.357	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Time: 2022/07/16 - 12:05
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
Wireless Audio Source Adapter	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2389.800	36.190	4.756	-17.810	54.000	31.434	AV
2		2390.000	36.087	4.654	-17.913	54.000	31.433	AV
3		2413.096	95.311	63.955	N/A	N/A	31.357	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Time: 2022/07/16 - 12:18
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
Wireless Audio Source Adapter	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2462MHz	



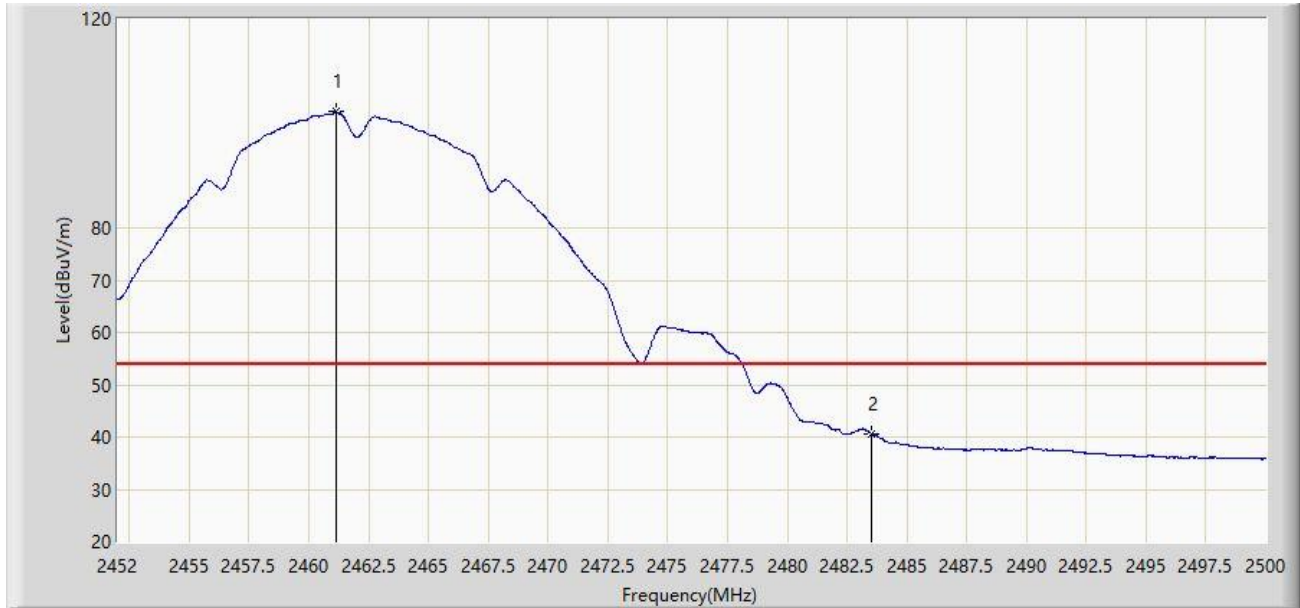
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2461.168	104.081	72.750	N/A	N/A	31.331	PK
2		2483.500	55.276	23.961	-18.724	74.000	31.315	PK
3	*	2492.656	56.911	25.579	-17.089	74.000	31.332	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC2	Time: 2022/07/16 - 12:12
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
Wireless Audio Source Adapter	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		2461.168	102.189	70.858	N/A	N/A	31.331	AV
2	*	2483.500	40.721	9.406	-13.279	54.000	31.315	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).