

MEASUREMENT REPORT

FCC PART 15.247 / Bluetooth

FCC ID: Z9G-EDF161

Applicant: Edifier International Limited

Application Type: Certification

Product: Active Speaker

Model No.: EDF100040, EDF100041

Brand Name: EDIFIER

FCC Classification: FCC Part 15 Spread Spectrum Transmitter (DSS)

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

Test Procedure(s): ANSI C63.10-2013

Test Date: December 10 ~ 23, 2021

Reviewed By:

Sunny Sun

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 (Shenzhen) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2111RSU101-U2	Rev. 01	Initial Report	01-16-2022	Valid

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1. GENERAL INFORMATION

1.1. Applicant

Edifier International Limited

P.O. Box 6264 General Post Office Hong Kong

1.2. Manufacturer

Beijing Edifier Technology Co., Ltd.

8th floor,ZuoAn Building,NO.68 BeiSiHuanXiLu, Haidian District, Beijing 100080,CHINA

1.3. Test 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	Active Speaker
Model No.	EDF100040, EDF100041
Test Device Label No.	20211127Sample#02 (for Conducted) 20211127Sample#03 (for Radiated)
Operating Temp.	0 ~ 45°C
Rated Input	100-240Vac, 50/60Hz, 500mA
Bluetooth Specification	V5.1 Single mode, BR/EDR only
Accessory	
Remote Controller	Power Type: Button Battery for EDF100040; AAA Battery for EDF100041 Infrared Radiation
Remarks:	
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 test model is EDF100040, and the only difference between EDF100040 and EDF100041 is different color.	
3. The two models are shipped with infrared different remote controller.	

1.5. Product Specification

Operating Frequency	2402 ~ 2480MHz
Channel Number	79
Type of modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Data Rate	1Mbps (GFSK), 2Mbps ($\pi/4$ DQPSK), 3Mbps (8DPSK)
Antenna Type	Multilayer Chip Antenna
Antenna Gain	2.50dBi

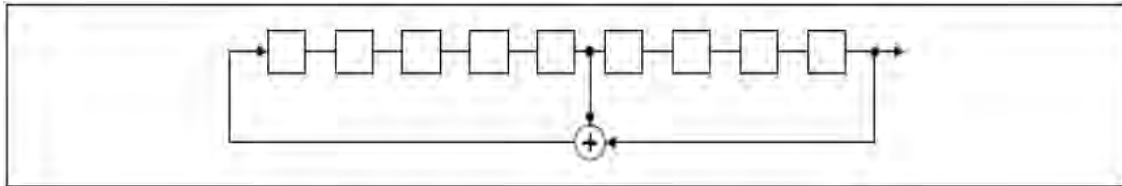
1.6. Working Frequencies

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2403 MHz	02	2404 MHz
03	2405 MHz	04	2406 MHz	05	2407 MHz
06	2408 MHz	07	2409 MHz	08	2410 MHz
09	2411 MHz	10	2412 MHz	11	2413 MHz
12	2414 MHz	13	2415 MHz	14	2416 MHz
15	2417 MHz	16	2418 MHz	17	2419 MHz
18	2420 MHz	19	2421 MHz	20	2422 MHz
21	2423 MHz	22	2424 MHz	23	2425 MHz
24	2426 MHz	25	2427 MHz	26	2428 MHz
27	2429 MHz	28	2430 MHz	29	2431 MHz
30	2432 MHz	31	2433 MHz	32	2434 MHz
33	2435 MHz	34	2436 MHz	35	2437 MHz
36	2438 MHz	37	2439 MHz	38	2440 MHz
39	2441 MHz	40	2442 MHz	41	2443 MHz
42	2444 MHz	43	2445 MHz	44	2446 MHz
45	2447 MHz	46	2448 MHz	47	2449 MHz
48	2450 MHz	49	2451 MHz	50	2452 MHz
51	2453 MHz	52	2454 MHz	53	2455 MHz
54	2456 MHz	55	2457 MHz	56	2458 MHz
57	2459 MHz	58	2460 MHz	59	2461 MHz
60	2462 MHz	61	2463 MHz	62	2464 MHz
63	2465 MHz	64	2466 MHz	65	2467 MHz
66	2468 MHz	67	2469 MHz	68	2470 MHz
69	2471 MHz	70	2472 MHz	71	2473 MHz
72	2474 MHz	73	2475 MHz	74	2476 MHz
75	2477 MHz	76	2478 MHz	77	2479 MHz
78	2480 MHz	--	--	--	--

1.7. Pseudorandom Frequency Hopping Sequence

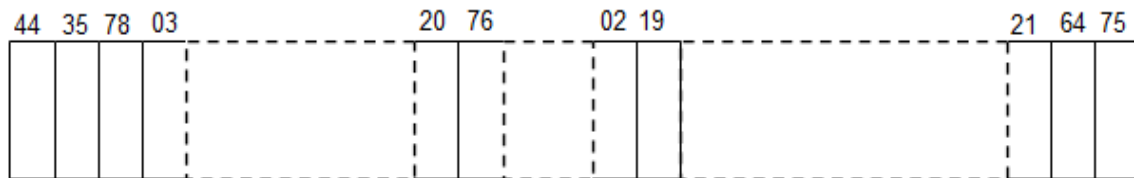
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES, i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



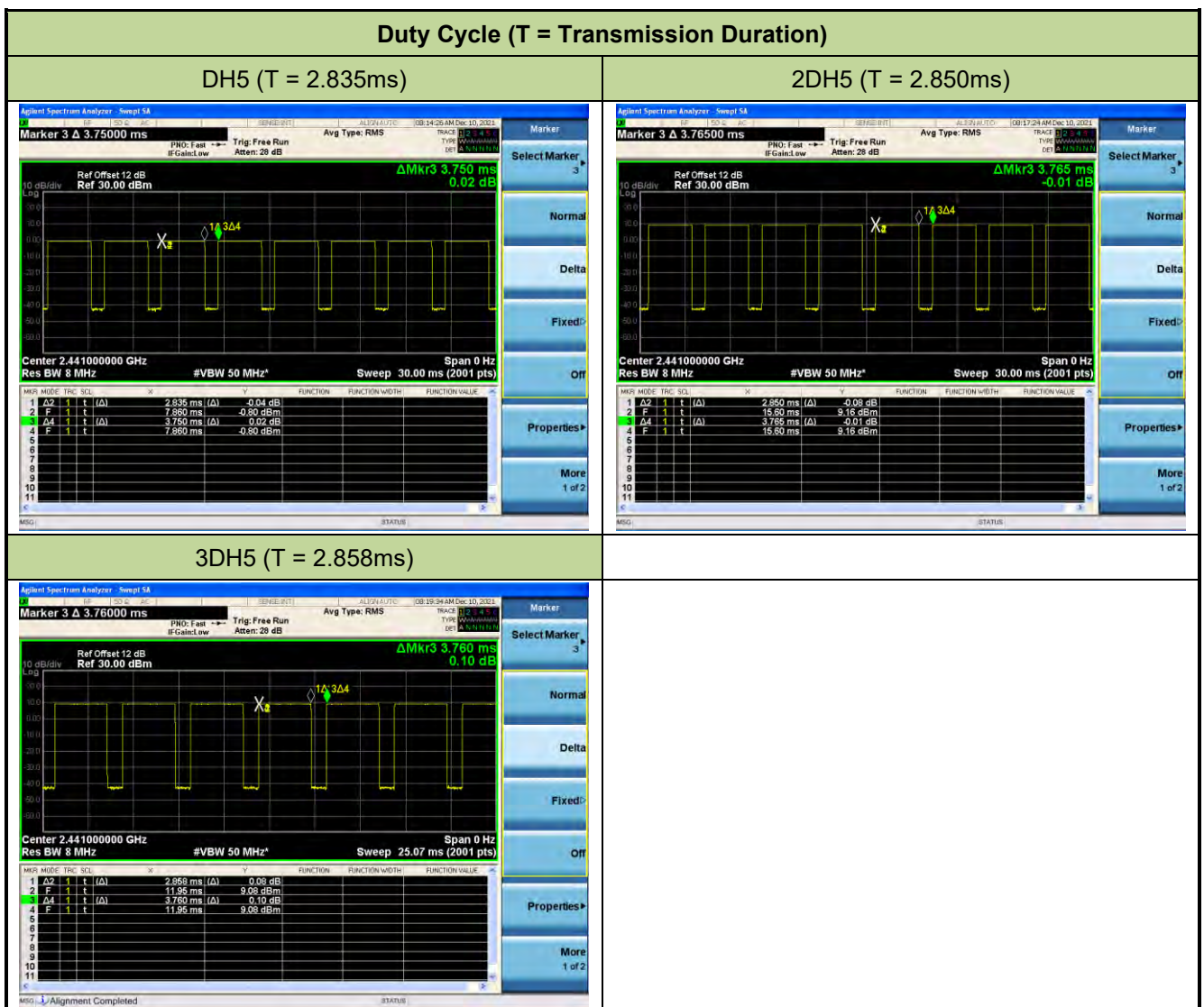
Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their Corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

1.8. Duty Cycle

The maximum achievable duty cycle was determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

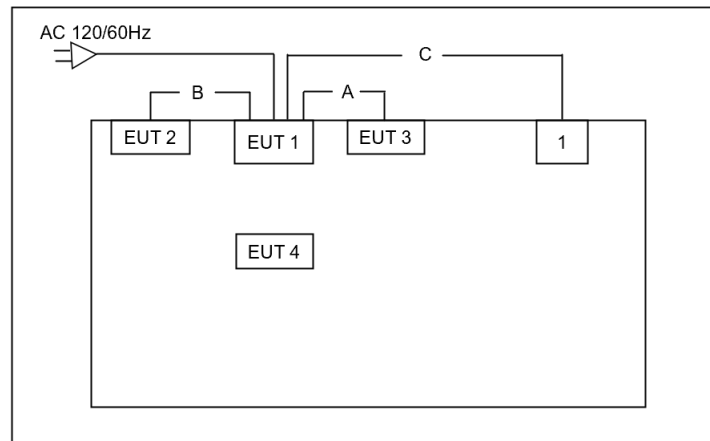
Test Mode	Duty Cycle
DH5	75.60%
2DH5	75.70%
3DH5	76.01%



1.9. Configuration of Test System

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

Setup for Radiated spurious emissions and AC conducted emissions



Cable Type		Cable Description
A	VGA Cable	Shielded, 1.50m
B	Speaker Connecting Cable	Non-Shielded, 3.0m
C	Audio Cable	Non-Shielded, 0.9m
D	Coaxial Cable	Non-Shielded, 1.0m
E	Optical Cable	Non-Shielded, 1.8m
Product		Manufacturer
EUT 1	Active Speaker	EDIFIER
EUT 2	Left Satellite Speaker	EDIFIER
EUT 3	Right Satellite Speaker	EDIFIER
EUT 4	Infrared Remote Controller	EDIFIER
1	Phone	Redmi

Note: The test utility software used during testing was “BlueTest3”, and the version was 3.3.4.685.

1.10. EMI Suppression Device(s) / Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

1.11. Test Environment Condition

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

2. 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.

3. TEST EQUIPMENT CALIBRATION DATE

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
EMI Test Receiver	R&S	ESL3	MRTSUE06576	1 year	2022/06/27	NS-SR2
ENV216-LV-NETZNACHB	R&S	ENV216	MRTSUE06577	1 year	2022/07/04	NS-SR2
ENV216-LV-NETZNACHB	R&S	ENV216	MRTSUE06578	1 year	2022/07/04	NS-SR2
Temperature/Humidity Meter	deli	NO.8813	MRTSUE06587	1 year	2022/06/30	NS-SR2
Shielding Anechoic Chamber	BOOMWAVE	SR2	MRTSUE06551	5 years	2024/06/04	NS-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06575	1 year	2022/06/27	NS-AC1
EXA Signal Analyzer	Keysight	N9010A	MRTSUE06195	1 year	2022/03/17	NS-AC1
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06292	1 year	2022/10/20	NS-AC1
Broad-Band Horn Antenna	Schwarzbeck	9120D	MRTSUE06572	1 year	2022/03/14	NS-AC1
Bilog Period Antenna	Schwarzbeck	VULB 9162	MRTSUE06573	1 year	2022/06/28	NS-AC1
Broadband Coaxial Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06574	1 year	2022/07/12	NS-AC1
Anechoic Chamber	BOOMWAVE	AC1	MRTSUE06496	1 year	2022/07/24	NS-AC1
Temperature/Humidity Meter	deli	NO.8813	MRTSUE06588	1 year	2022/06/30	NS-AC1
Electronic hygrothermograph	DELI	No.8813	MRTSUE06783	1 year	2022/05/09	NS-TR2
USB wideband power sensor	Keysight	U2021XA	MRTSUE06581	1 year	2022/08/15	NS-TR2
EXA Signal Analyzer	Keysight	N9010A	MRTSUE06195	1 year	2022/08/19	NS-TR2

Software	Version	Function
EMI Software	V3	EMI Test Software

4. 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% ($U=2U_c(y)$): 9kHz~150kHz: 3.74dB 150kHz~30MHz: 3.44dB
Radiated Disturbance
Measurement Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 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% ($U=2U_c(y)$): 0.78dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 1.13dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 0.28%

5. TEST RESULT

5.1. Summary

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result
15.247(a)(1)	20dB Bandwidth	No Limit	Conducted	Pass
15.247(b)(1)	Peak Transmitter Output Power	<1 Watt if > 75 non-overlapping channels used		Pass
15.24207(a)(1)	Channel Separation	> 2/3 of 20 dB BW for systems with Output Power < 125mW		Pass
15.247(a)(1)(iii)	Number of Channels	> 15 Channels		Pass
15.247(a)(1)(iii)	Time of Occupancy	< 0.4 sec in 31.6 sec period		Pass
15.247(d)	Band Edge / Out-of-Band Emissions	Conducted $\geq$ 20dBc		Pass
15.205, 15.209	General Field Strength (Restricted Bands and Radiated Emission)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits >	Line Conducted	Pass

Notes:

- 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.

5.2. 20dB Bandwidth Measurement

5.2.1. Test Limit

N/A

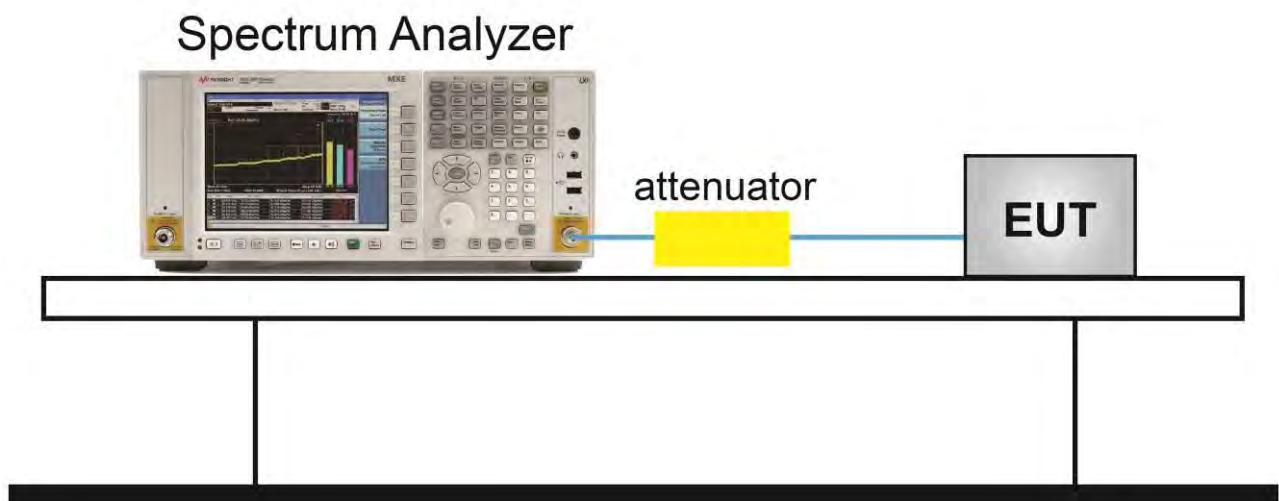
5.2.2. Test Procedure Used

ANSI C63.10-2013 - Section 6.9.2

5.2.3. Test Setting

1. Set RBW $\geq 1\%$ to 5% of the OBW
2. VBW = Approximately three times RBW
3. Span = Approximately 2 to 5 times the OBW, centered on a hopping channel
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

5.2.4. Test Setup



5.2.5. Test Result

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/10		

Test Mode	Channel No.	Frequency (MHz)	20dB Bandwidth (kHz)	Result
DH5	00	2402	963.1	Pass
	39	2441	964.4	Pass
	78	2480	957.7	Pass
2DH5	00	2402	1334.0	Pass
	39	2441	1336.0	Pass
	78	2480	1336.0	Pass
3DH5	00	2402	1311.0	Pass
	39	2441	1304.0	Pass
	78	2480	1311.0	Pass

DH5 20dB Bandwidth

Channel 00 (2402MHz)



Channel 39 (2441MHz)



Channel 78 (2480MHz)



2DH5 20dB Bandwidth

Channel 00 (2402MHz)



Channel 39 (2441MHz)



Channel 78 (2480MHz)



3DH5 20dB Bandwidth

Channel 00 (2402MHz)



Channel 39 (2441MHz)



Channel 78 (2480MHz)



5.3. Output Power Measurement

5.3.1. Test Limit

The maximum out power permissible output power is 1 Watt for all frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels.

For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

5.3.2. Test Procedure Used

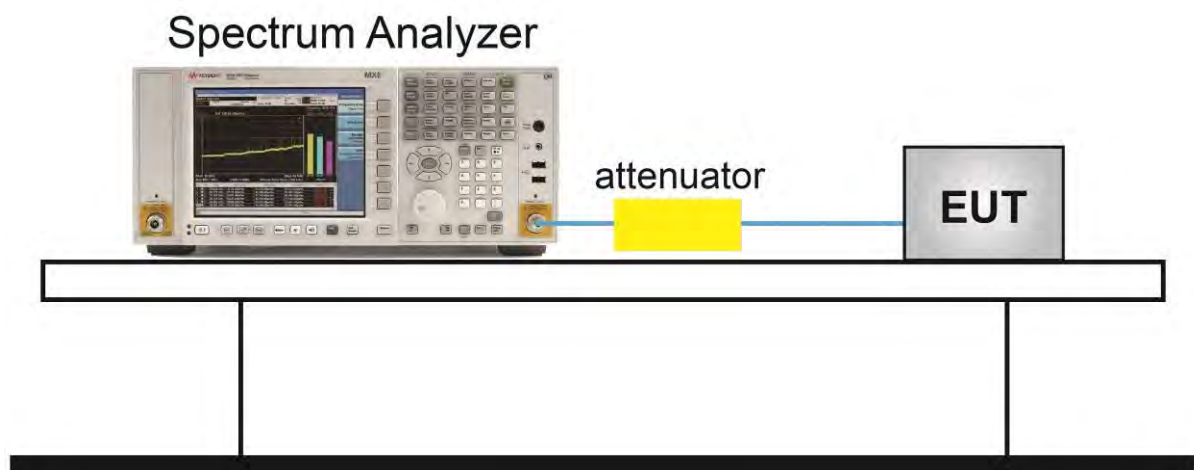
ANSI C63.10-2013 - Section 7.8.5

5.3.3. Test Setting

1. Set RBW $\geq$ the 20 dB bandwidth of the emission being measured.
2. VBW $\geq$ RBW
3. Span = approximately five times the 20dB bandwidth, centered on a hopping channel
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.

The indicated level is the peak output power (don't forget added the external attenuation and cable loss)

5.3.4. Test Setup



5.3.5. Test Result

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/10		

Test Mode	Channel No.	Frequency (MHz)	Peak Power (dBm)	Power Limit (dBm)
DH5	00	2402	1.13	≤ 30.00
	39	2441	1.19	≤ 30.00
	78	2480	1.38	≤ 30.00
2DH5	00	2402	3.18	≤ 30.00
	39	2441	3.24	≤ 30.00
	78	2480	3.40	≤ 30.00
3DH5	00	2402	3.70	≤ 30.00
	39	2441	3.76	≤ 30.00
	78	2480	3.88	≤ 30.00

DH5 Output Power

Channel 00 (2402MHz)



Channel 39 (2441MHz)



Channel 78 (2480MHz)



2DH5 Output Power

Channel 00 (2402MHz)



Channel 39 (2441MHz)



Channel 78 (2480MHz)



3DH5 Output Power

Channel 00 (2402MHz)



Channel 39 (2441MHz)



Channel 78 (2480MHz)



5.4. Carrier Frequency Separation Measurement

5.4.1. Test Limit

The minimum permissible channel separation for this system is 25kHz or 2/3 the value of the 20dB BW, whichever is greater.

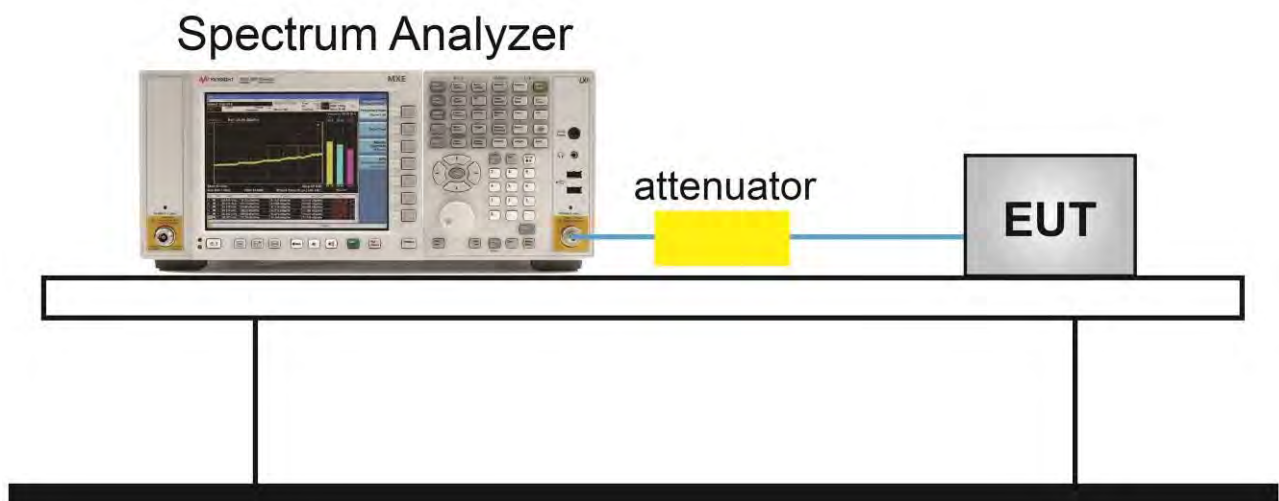
5.4.2. Test Procedure Used

ANSI C63.10-2013 - Section 7.8.2

5.4.3. Test Setting

1. Span = Wide enough to capture the peaks of two adjacent channels.
2. Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
3. VBW $\geq$ RBW
4. Sweep time = Auto couple
5. Detector = Peak
6. Trace mode = Max hold
7. Allowed the trace to stabilize
8. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

5.4.4. Test Setup



5.4.5. Test Result

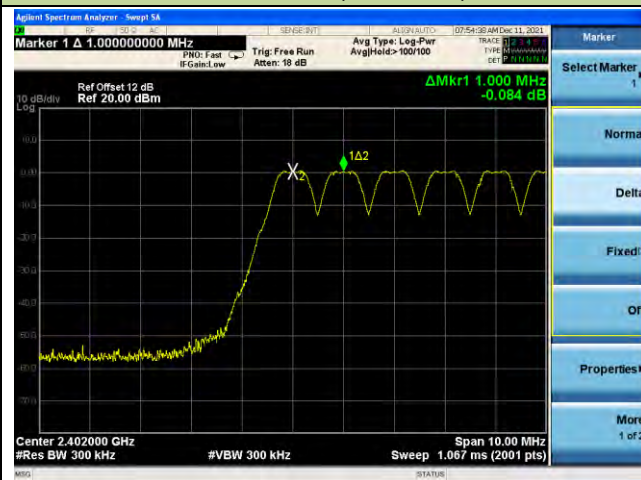
Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/11		

Test Mode	Channel No.	Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Result
DH5	00	2402	1000	≥ 642.1	Pass
	39	2441	1000	≥ 642.9	Pass
	78	2480	1000	≥ 638.5	Pass
2DH5	00	2402	1000	≥ 889.3	Pass
	39	2441	1000	≥ 890.7	Pass
	78	2480	1000	≥ 890.7	Pass
3DH5	00	2402	1000	≥ 874.0	Pass
	39	2441	1000	≥ 869.3	Pass
	78	2480	1000	≥ 874.0	Pass

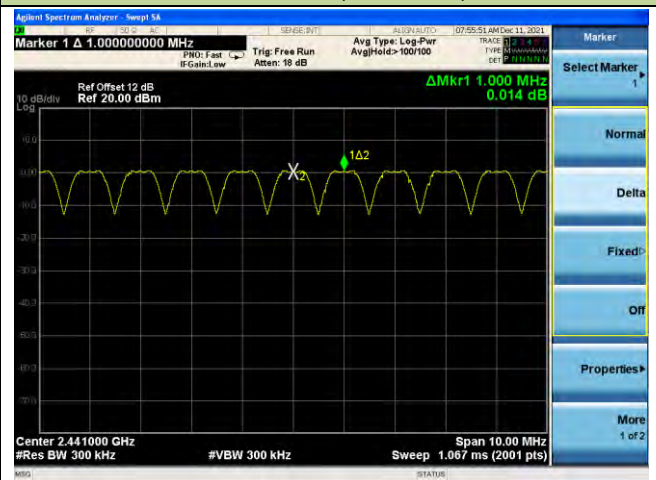
Note: The Limit is 2/3 the value of the 20dB BW.

DH5 Carrier Frequency Separation

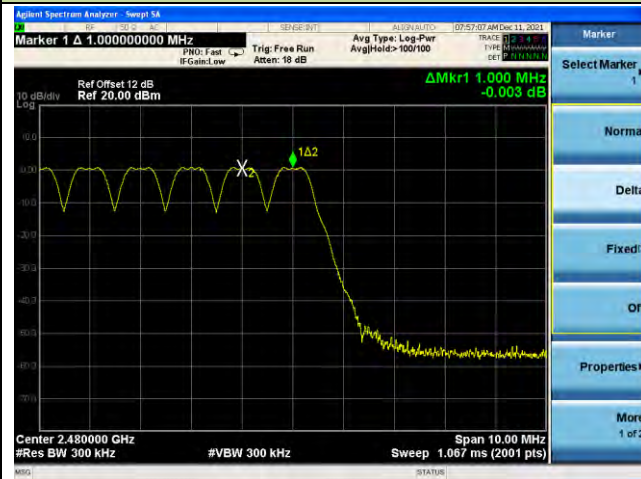
Channel 00 (2402MHz)



Channel 39 (2441MHz)

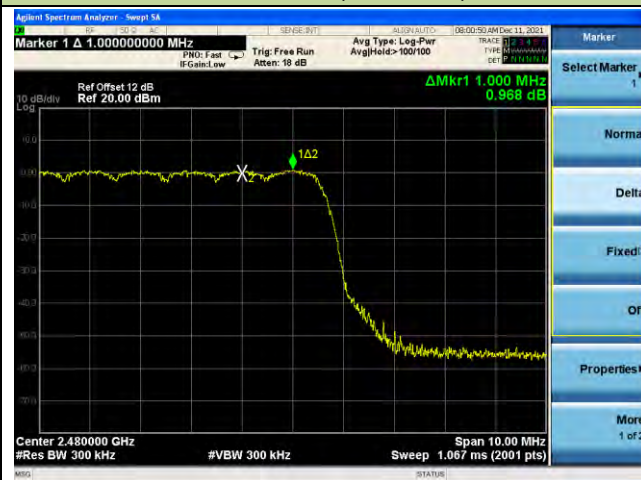


Channel 78 (2480MHz)

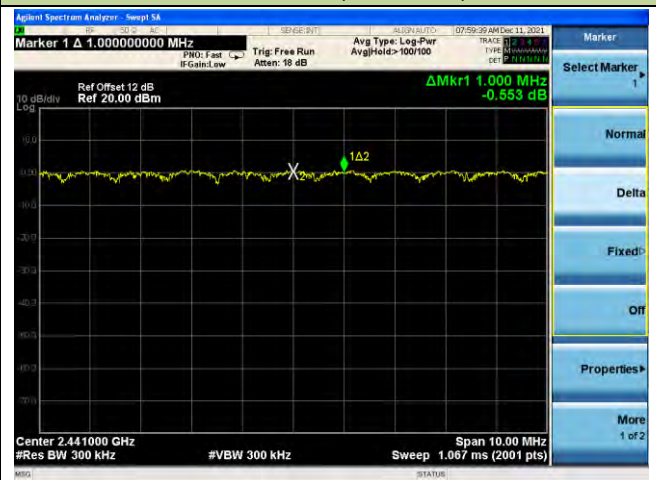


2DH5 Carrier Frequency Separation

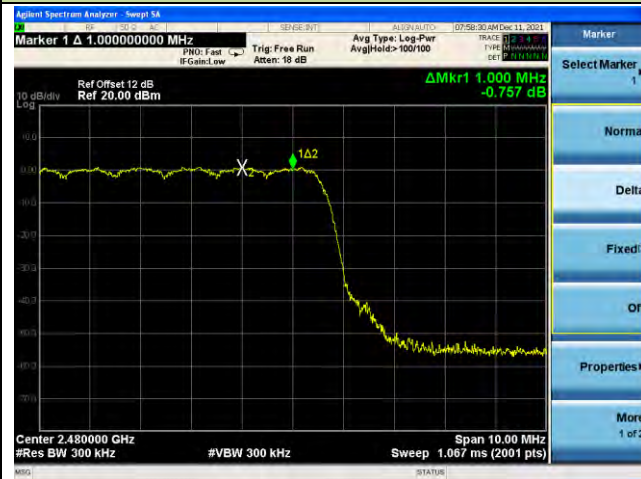
Channel 00 (2402MHz)



Channel 39 (2441MHz)



Channel 78 (2480MHz)



3DH5 Carrier Frequency Separation

Channel 00 (2402MHz)



Channel 39 (2441MHz)



Channel 78 (2480MHz)



5.5. Number of Hopping Channels Measurement

5.5.1. Test Limit

This frequency hopping system must employ a minimum of 15 hopping channels.

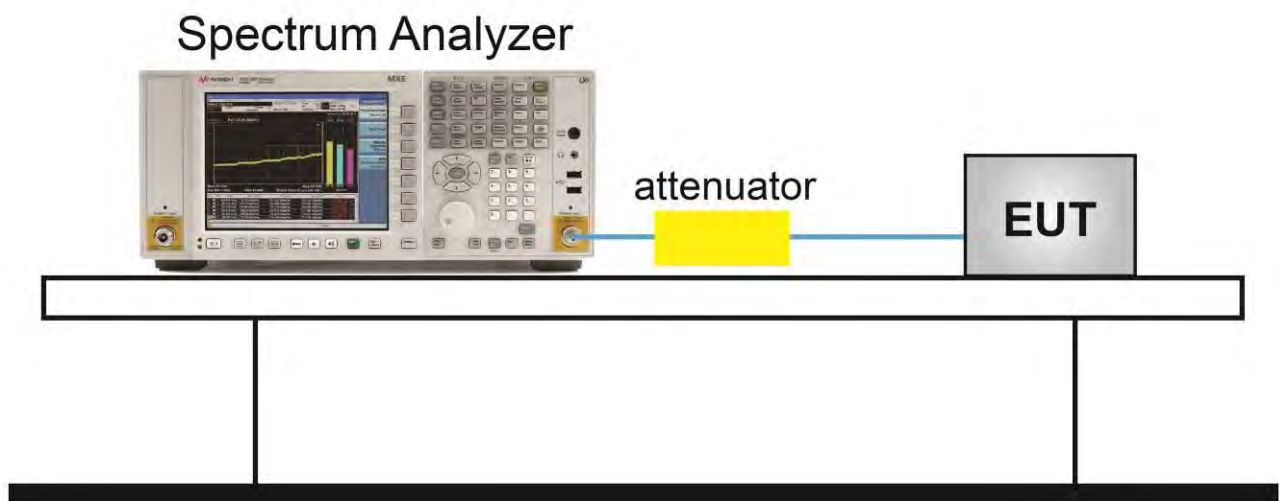
5.5.2. Test Procedure Used

ANSI C63.10-2013 - Section 7.8.3

5.5.3. Test Setting

1. Span = The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
3. VBW $\geq$ RBW
4. Sweep time = Auto couple
5. Detector = Peak
6. Trace mode = Max hold
7. Allow the trace to stabilize

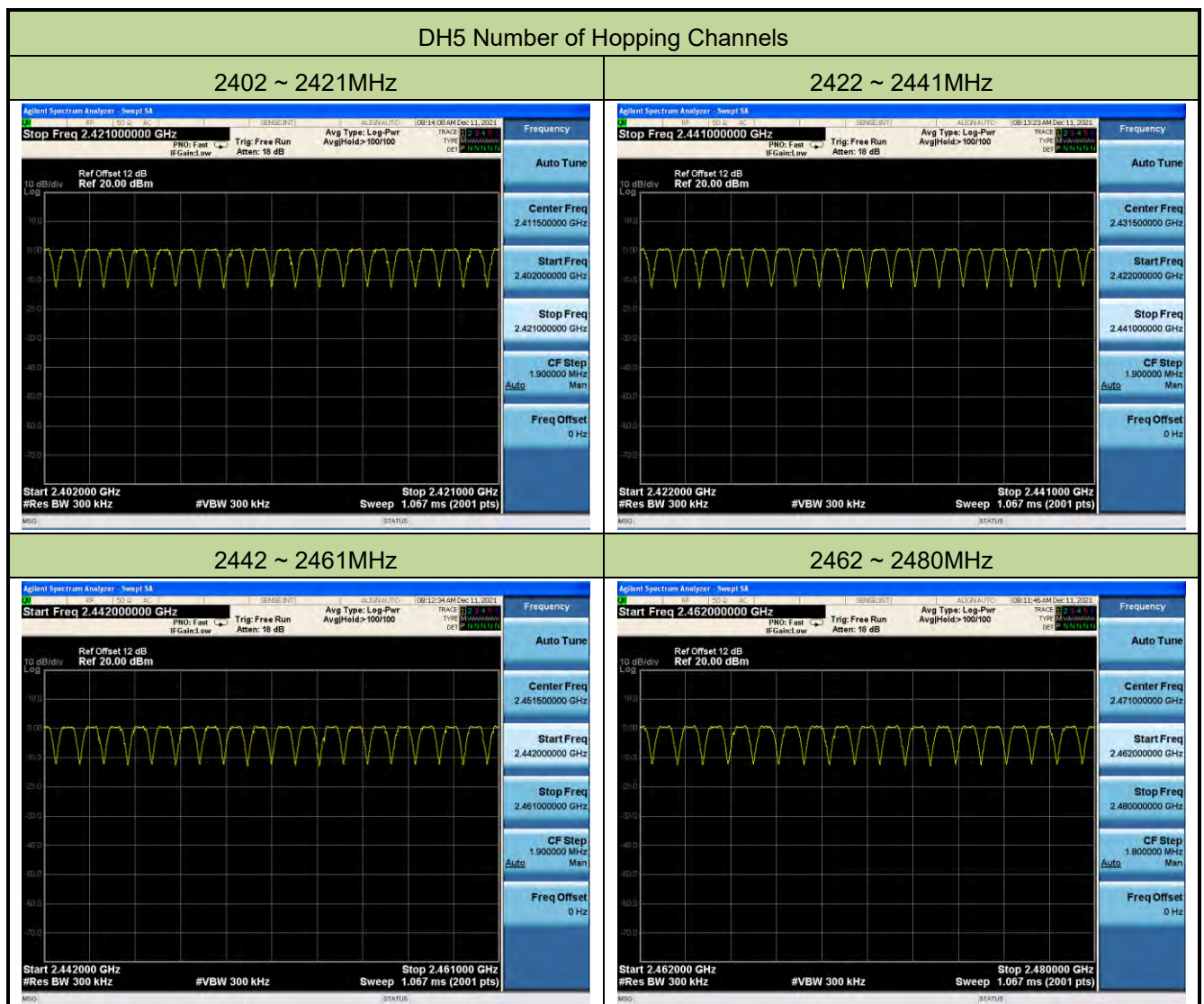
5.5.4. Test Setup



5.5.5. Test Result

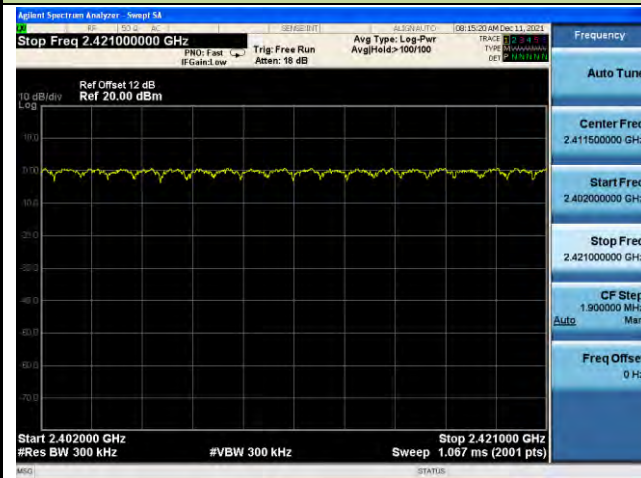
Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/11		

Test Mode (Hopping)	Channel Numbers	Frequency (MHz)	Limit (Hopping Channels)	Result
DH5	79	2402 ~ 2480	≥ 15	Pass
2DH5	79	2402 ~ 2480	≥ 15	Pass
3DH5	79	2402 ~ 2480	≥ 15	Pass

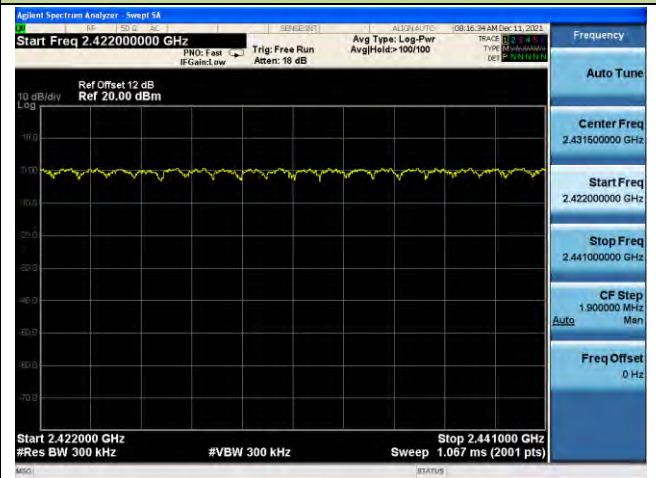


2DH5 Number of Hopping Channels

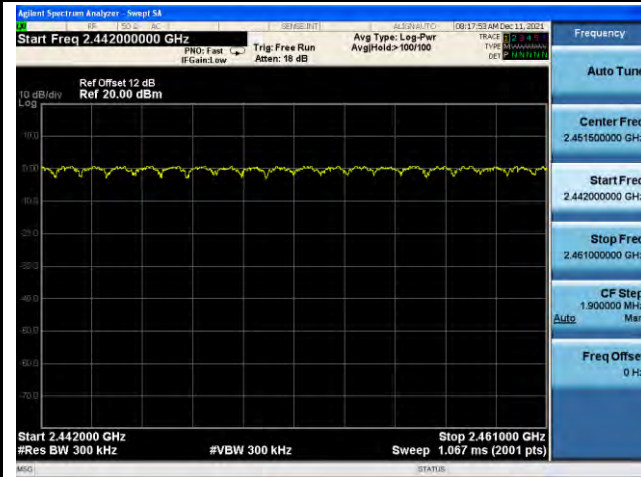
2402 ~ 2421MHz



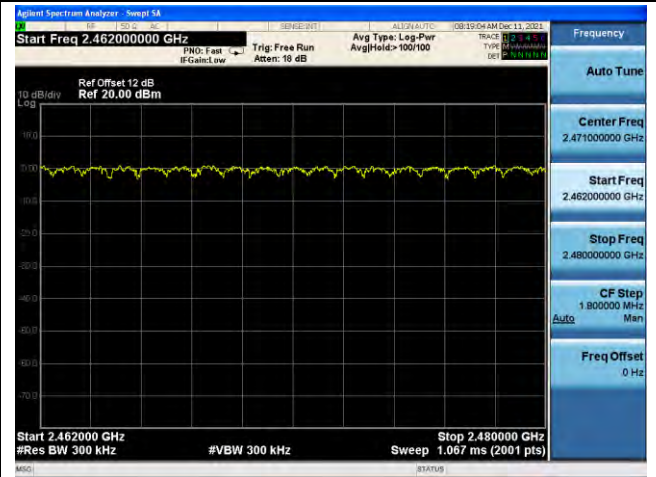
2422 ~ 2441MHz



2442 ~ 2461MHz

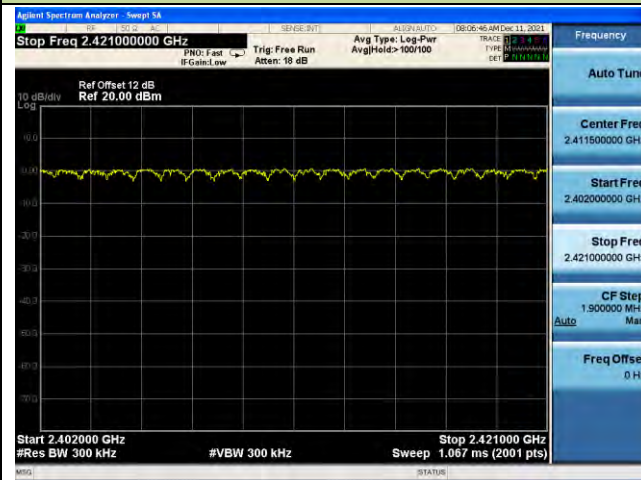


2462 ~ 2480MHz

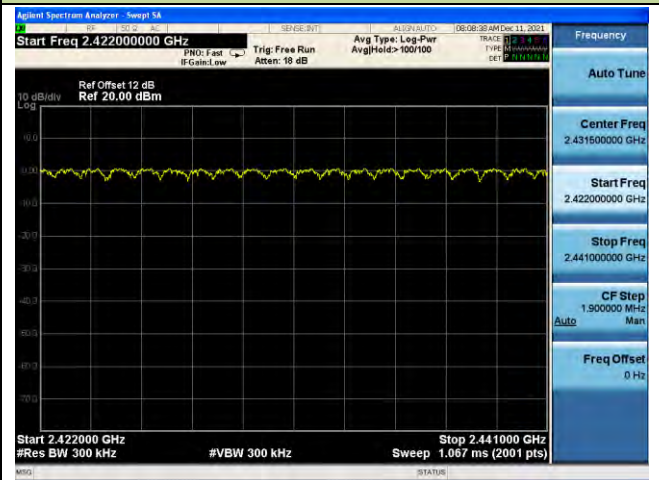


3DH5 Number of Hopping Channels

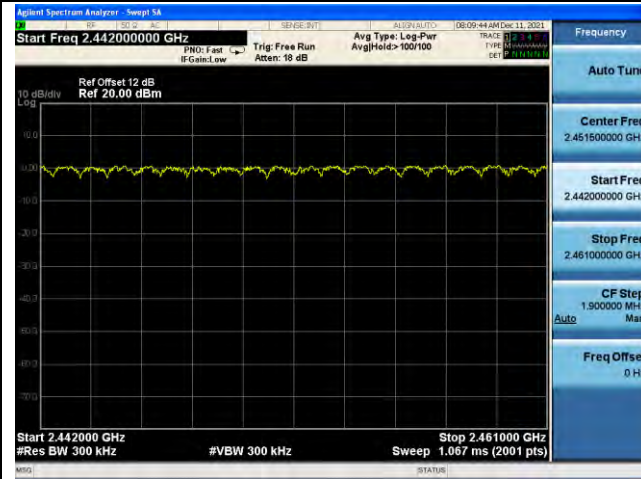
2402 ~ 2421MHz



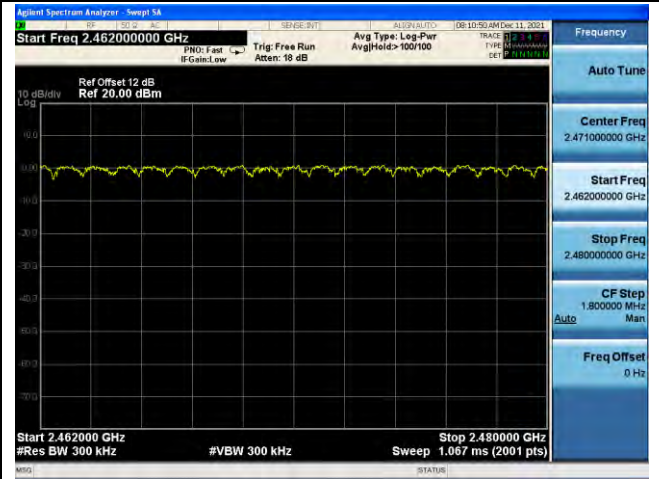
2422 ~ 2441MHz



2442 ~ 2461MHz



2462 ~ 2480MHz



5.6. Time of Occupancy Measurement

5.6.1. Test Limit

The maximum permissible time of occupancy is 400ms within a period of 400ms multiplied by the number of hopping channels employed.

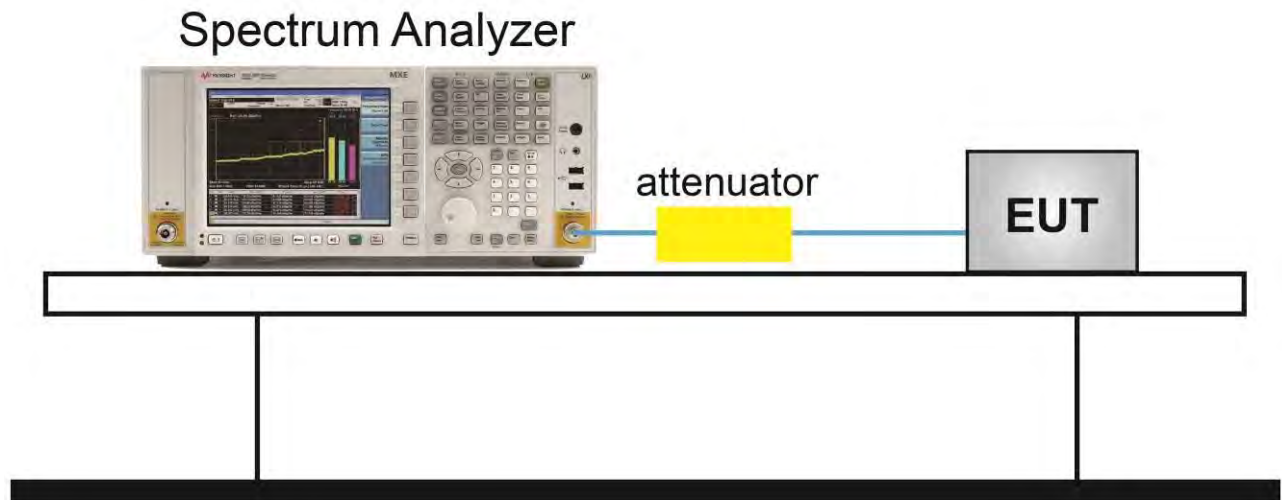
5.6.2. Test Procedure Used

ANSI C63.10-2013 - Section 7.8.4

5.6.3. Test Setting

1. Span = Zero span, centered on a hopping channel.
2. RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected dwell time per channel.
3. VBW $\geq$ RBW
4. Sweep time = As necessary to capture the entire dwell time per hopping channel
5. Detector = Peak
6. Trace mode = Free run
7. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. An oscilloscope may be used instead of a spectrum analyzer. The EUT shall show compliance with the appropriate regulatory limit for the number of hopping channels. A plot of the data shall be included in the test report.

5.6.4. Test Setup



5.6.5. Test Result

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/11		

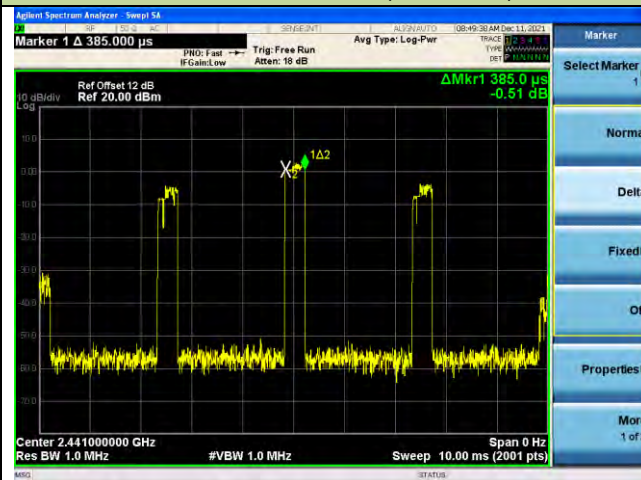
Test Mode	Channel No.	Frequency (MHz)	Transmit Time Per Hop (ms)	Observation Period (s)	Number of Hops in Sweep Time	Time of Occupancy (ms)	Limit (ms)	Result
3DH1	00~78	2402~2480	0.385	31.6	61	123.688	≤ 400	Pass
3DH3	00~78	2402~2480	1.620	31.6	30	255.960	≤ 400	Pass
3DH5	00~78	2402~2480	2.725	31.6	20	287.033	≤ 400	Pass

Note 1: Number of Hops in Observation Period = Number of Hops in Sweep Time * (Observation Period / Sweep Time), Sweep Time = 6s.

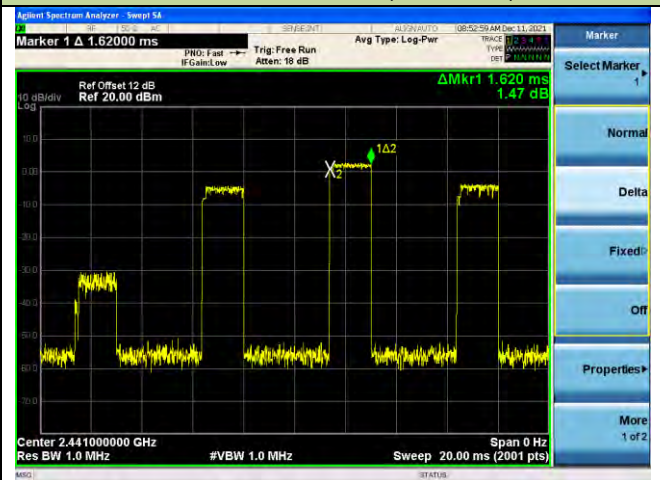
Note 2: Time of Occupancy (ms) = Transmit Time Per Hop (ms) * Number of Hops in Observation Period.

Transmit Time Per Hop

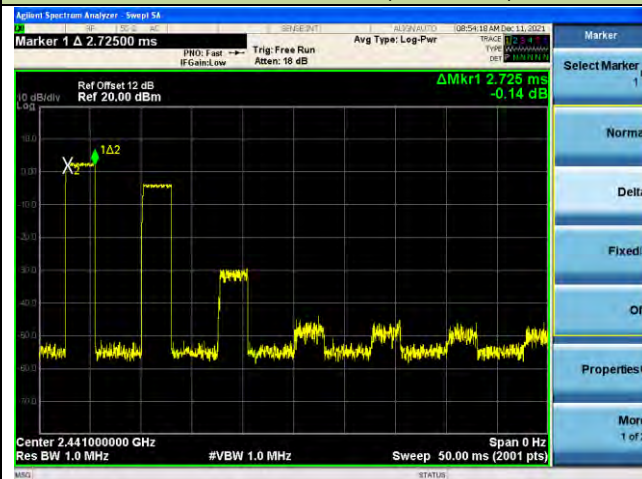
3DH1 - Channel 39 (2441MHz)



3DH3 - Channel 39 (2441MHz)



3DH5 - Channel 39 (2441MHz)

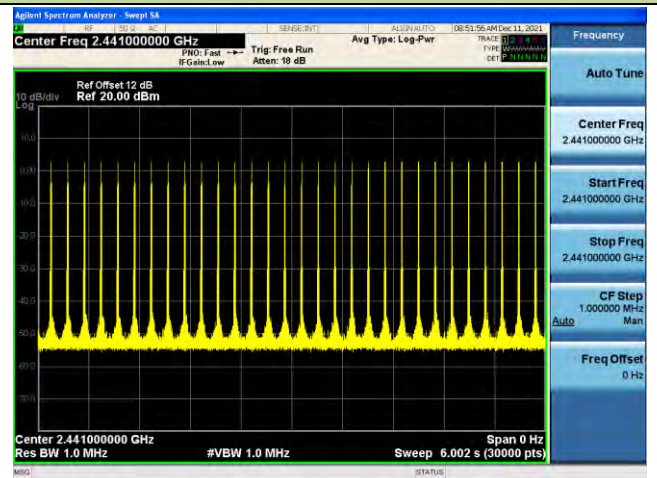


Number of Hops in Sweep Time

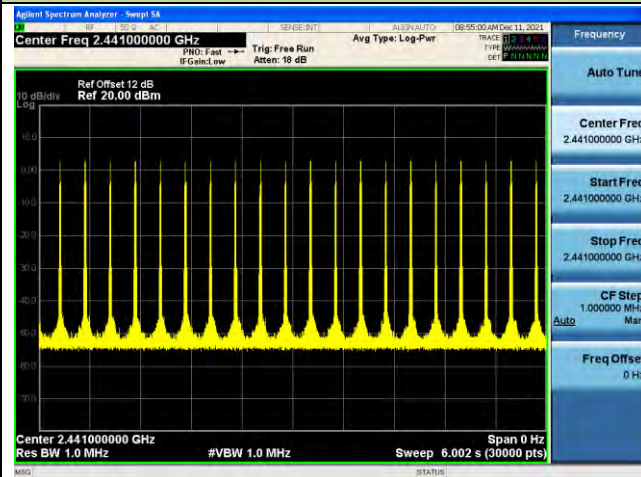
3DH1



3DH3



3DH5



5.7. Band-edge Compliance Measurement

5.7.1. Test Limit

The maximum permissible emission level is 20dBc. Any emissions were lying outside of the emission bandwidth and in authorized band edges to a field strength limit specified in Section 15.209 of the Title 47 CFR.

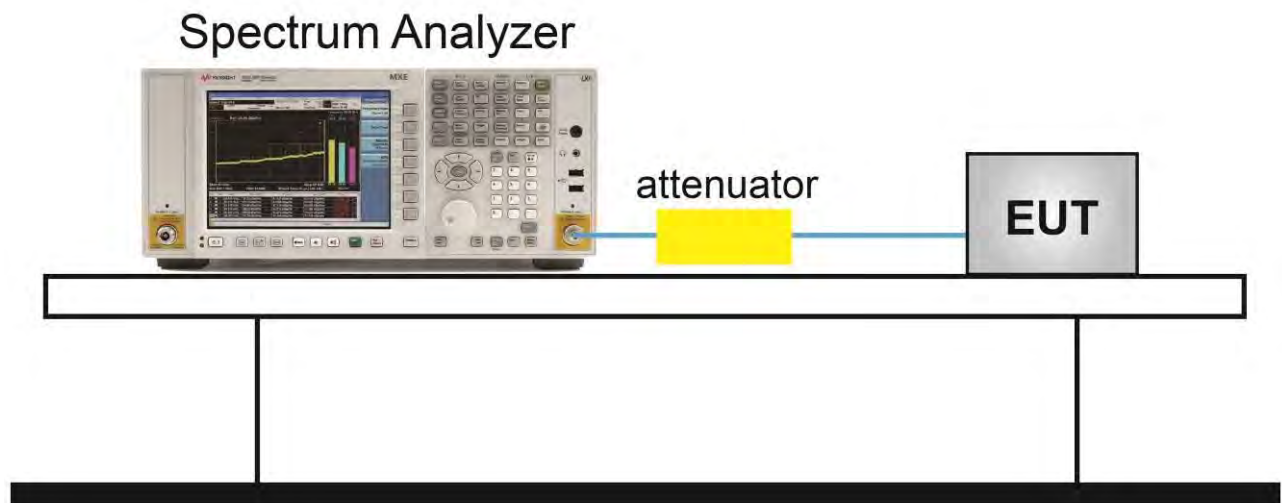
5.7.2. Test Procedure Used

ANSI C63.10-2013 - Section 6.10.4

5.7.3. Test Setting

1. Span = Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation.
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Allow the trace to stabilize. Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission.

5.7.4. Test Setup



5.7.5. Test Result

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/10 & 2021/12/11		

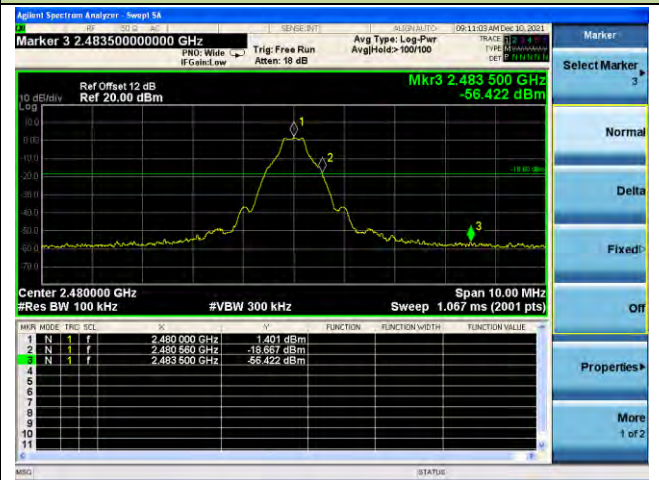
Test Mode	Channel No.	Frequency (MHz)	Limit	Result
DH5	00	2402	20dBc	Pass
	78	2480	20dBc	Pass
2DH5	00	2402	20dBc	Pass
	78	2480	20dBc	Pass
3DH5	00	2402	20dBc	Pass
	78	2480	20dBc	Pass

Band-edge Compliance

DH5 - Channel 00 (2402MHz)



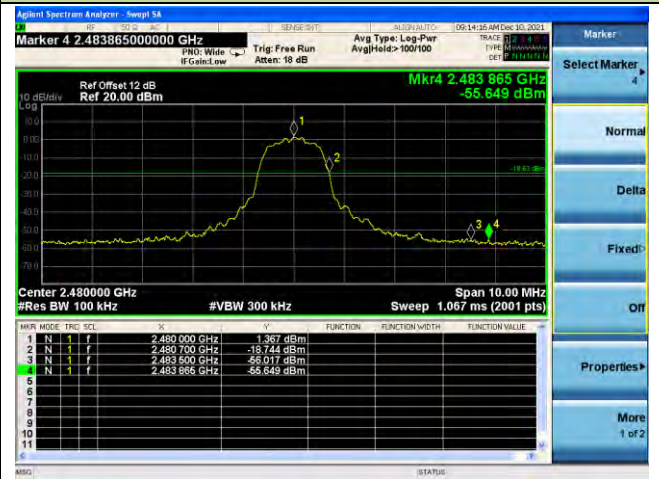
DH5 - Channel 78 (2480MHz)



2DH5 - Channel 00 (2402MHz)



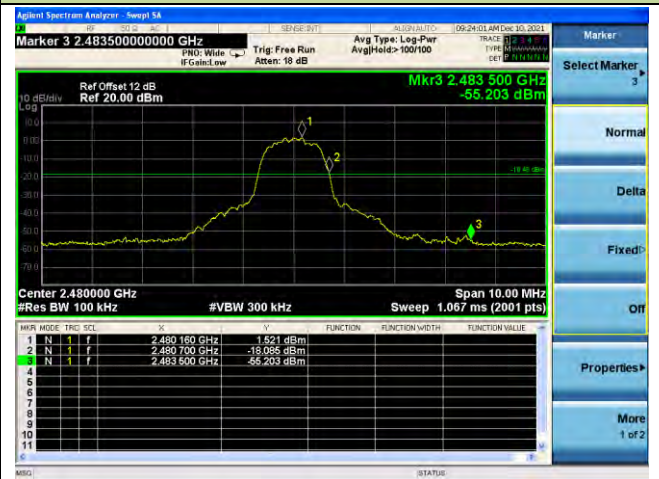
2DH5 - Channel 78 (2480MHz)



3DH5 - Channel 00 (2402MHz)

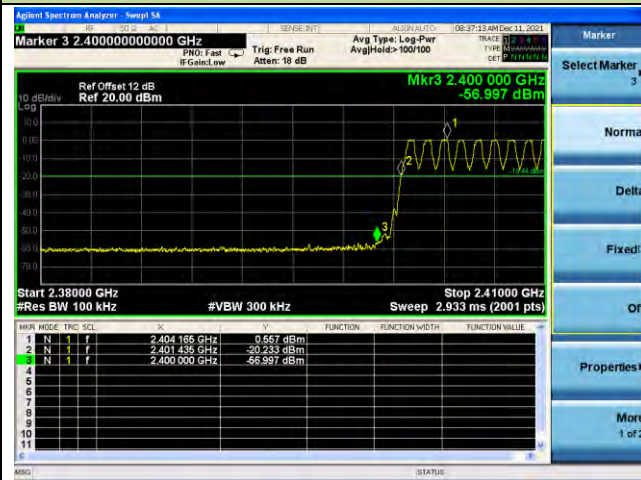


3DH5 - Channel 78 (2480MHz)

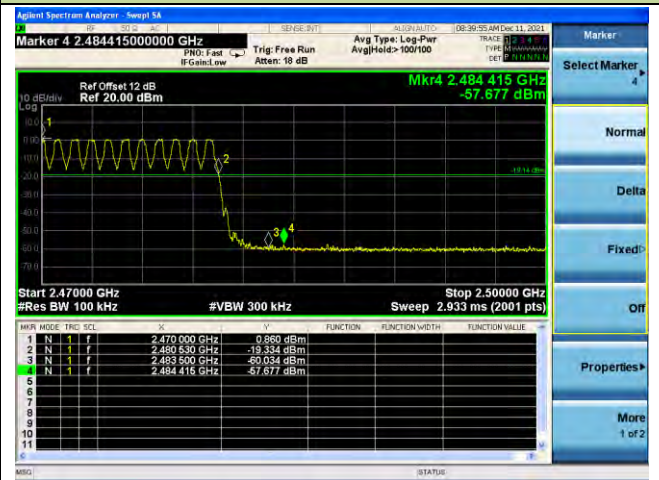


Operation Frequency Range of 20dB Bandwidth with Hopping Mode

DH5 - Channel 00 (2402MHz)



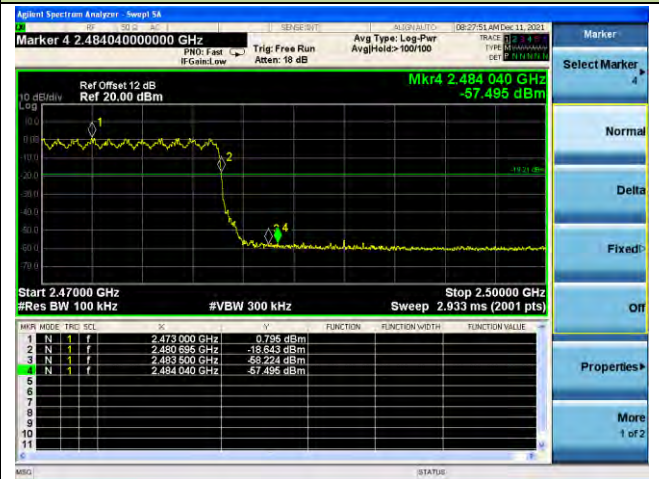
DH5 - Channel 78 (2480MHz)



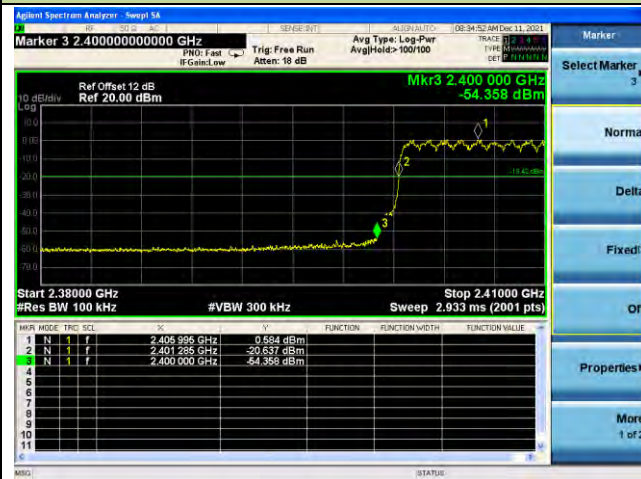
2DH5 - Channel 00 (2402MHz)



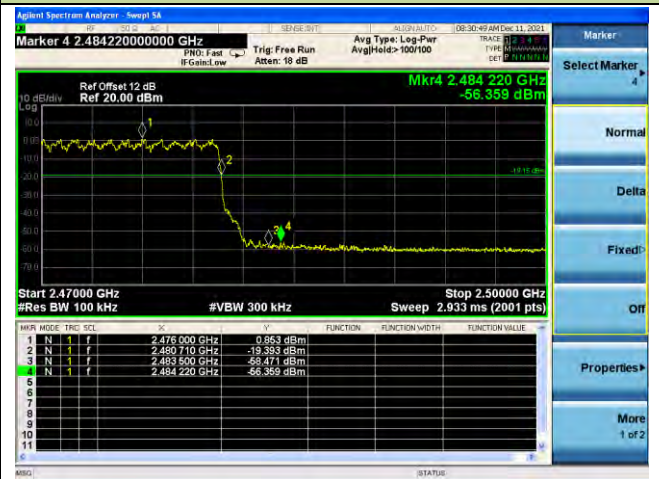
2DH5 - Channel 78 (2480MHz)



3DH5 - Channel 00 (2402MHz)



3DH5 - Channel 78 (2480MHz)



5.8. Conducted Spurious Emissions Measurement

5.8.1. Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. 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.

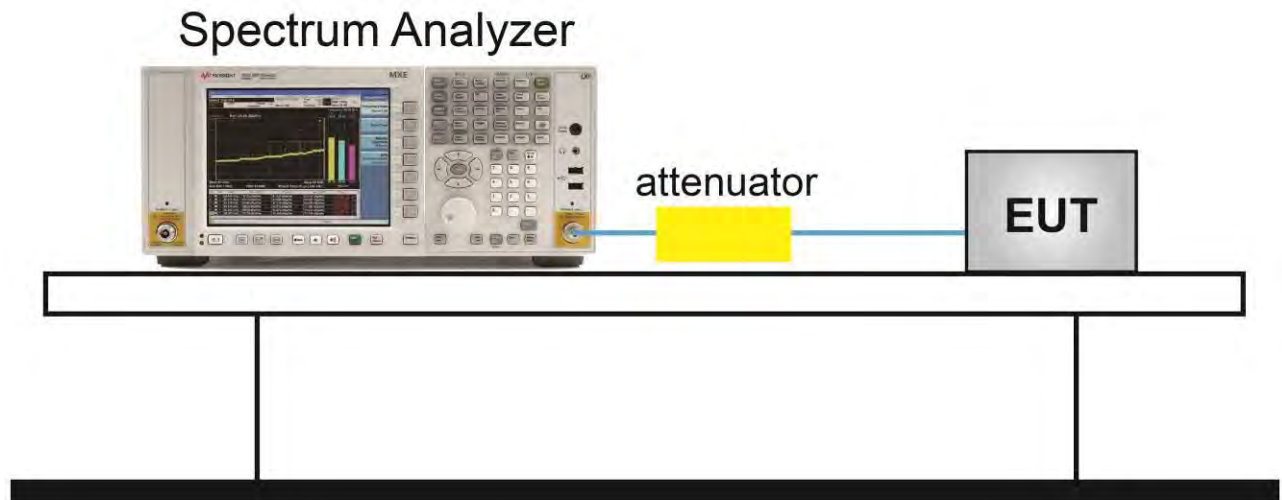
5.8.2. Test Procedure Used

ANSI C63.10-2013 - Section 7.8.8

5.8.3. Test Setting

1. Span = Wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize
8. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this section.

5.8.4. Test Setup



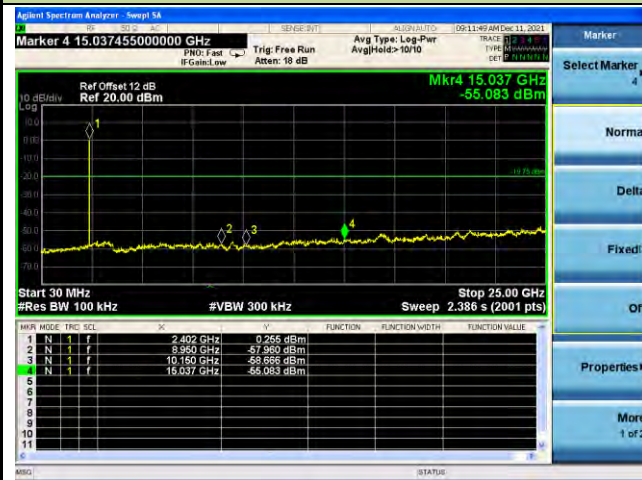
5.8.5. Test Result

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/11		

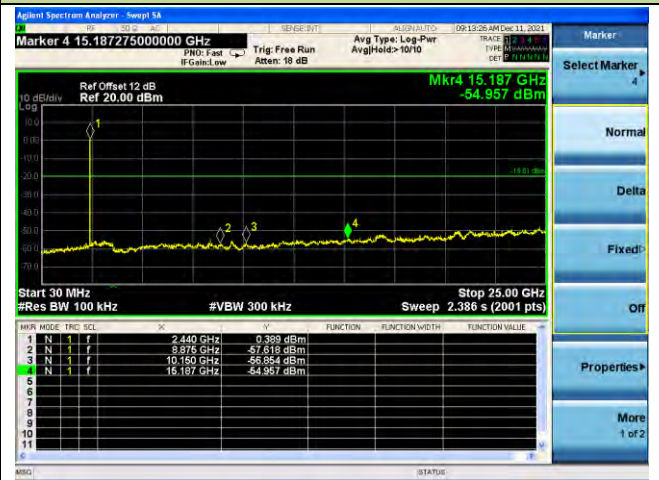
Test Mode	Channel No.	Frequency (MHz)	Limit	Result
DH5	00	2402	20dBc	Pass
	39	2441	20dBc	Pass
	78	2480	20dBc	Pass
2DH5	00	2402	20dBc	Pass
	39	2441	20dBc	Pass
	78	2480	20dBc	Pass
3DH5	00	2402	20dBc	Pass
	39	2441	20dBc	Pass
	78	2480	20dBc	Pass

DH5 Conducted Spurious Emissions

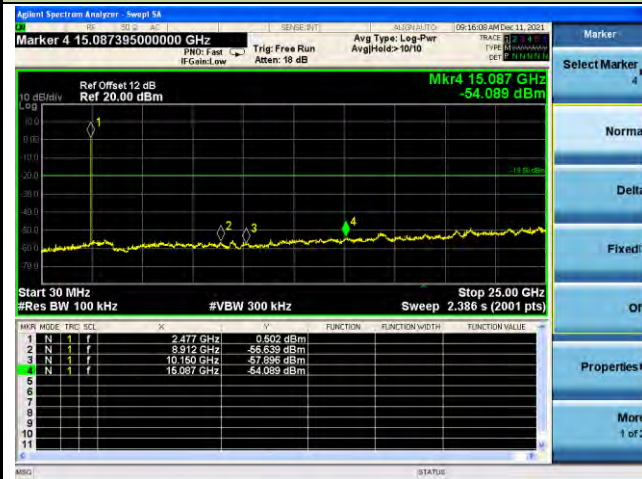
Channel 00 (2402MHz)



Channel 39 (2441MHz)

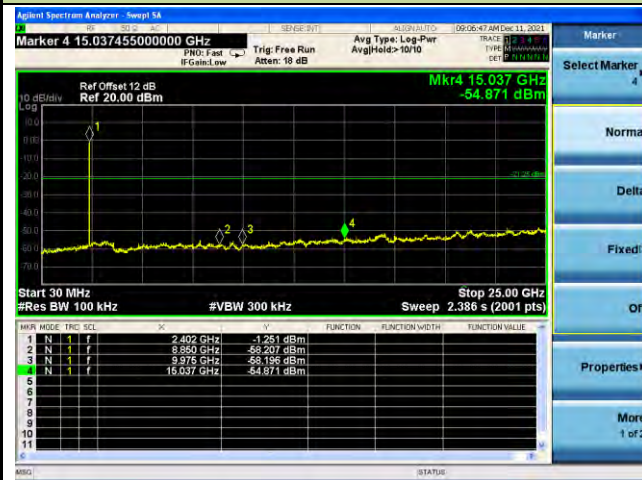


Channel 78 (2480MHz)

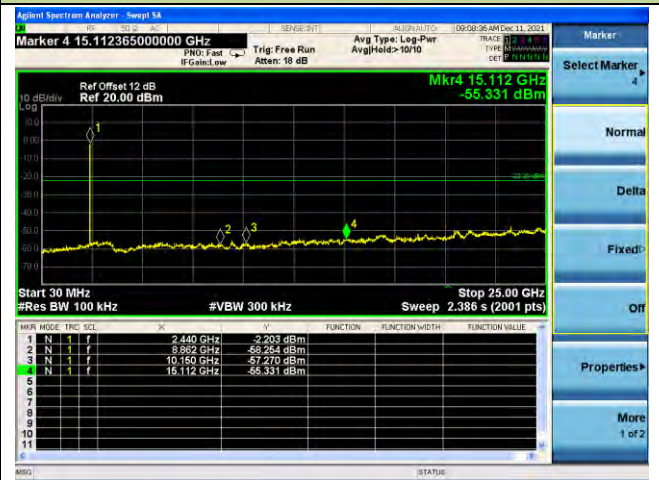


2DH5 Conducted Spurious Emissions

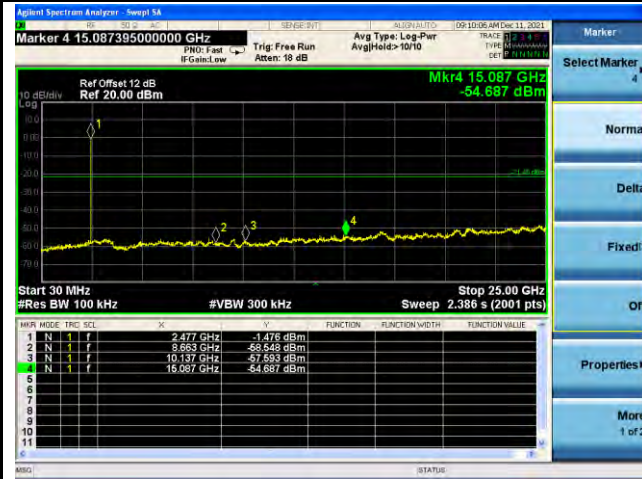
Channel 00 (2402MHz)



Channel 39 (2441MHz)

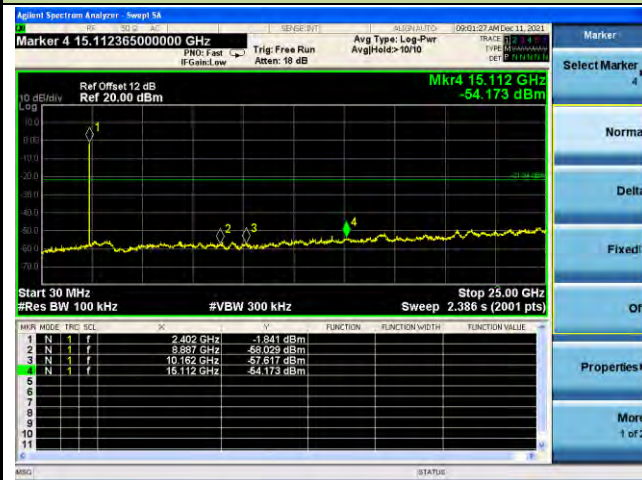


Channel 78 (2480MHz)

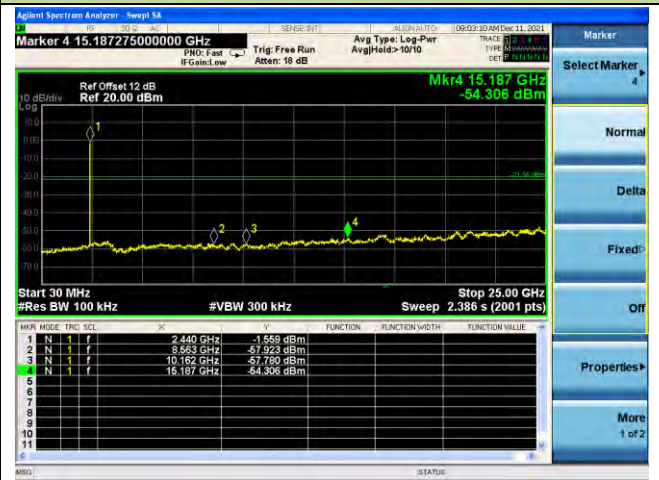


3DH5 Conducted Spurious Emissions

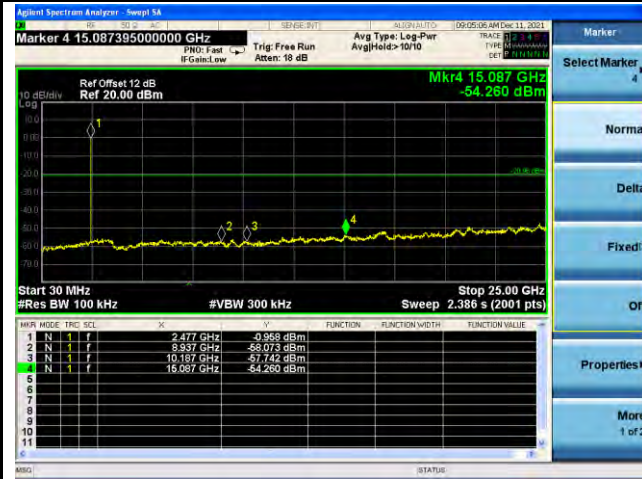
Channel 00 (2402MHz)



Channel 39 (2441MHz)



Channel 78 (2480MHz)



5.9. Radiated Spurious Emission Measurement

5.9.1. 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 ($\mu\text{V/m}$)	Measured Distance (m)
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

5.9.2. Test Procedure Used

ANSI C63.10-2013 - Section 6.3 & 6.4 & 6.5 & 6.6

5.9.3. 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
> 1000 MHz	1 MHz

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

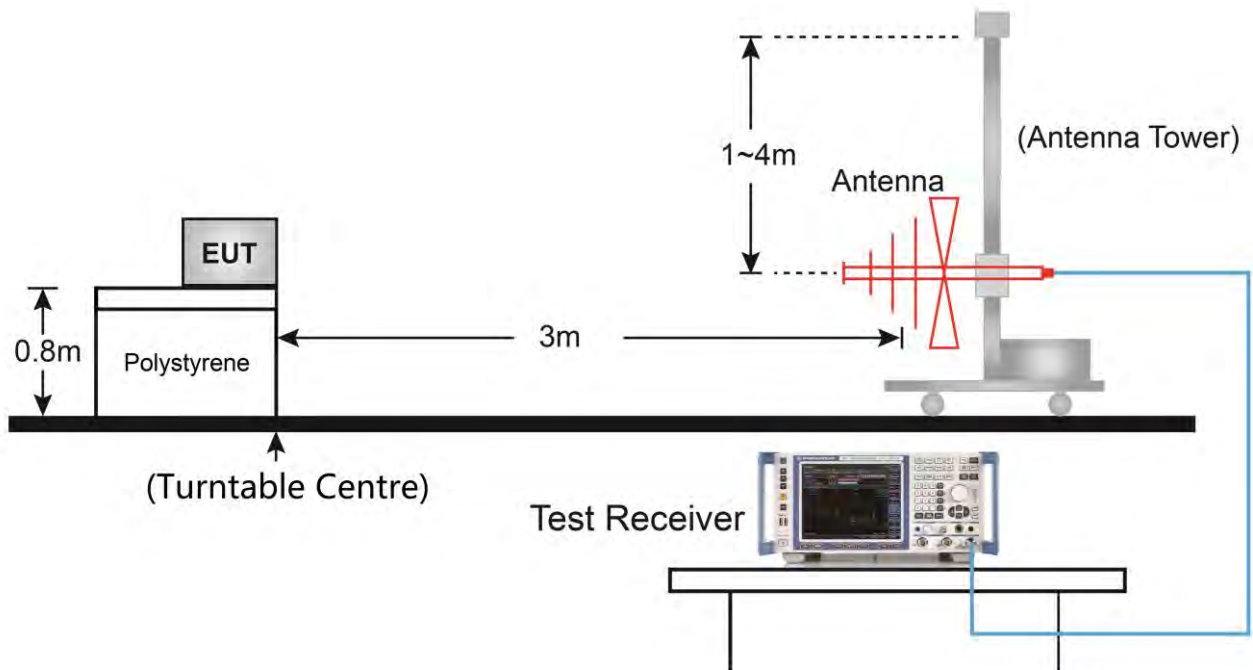
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

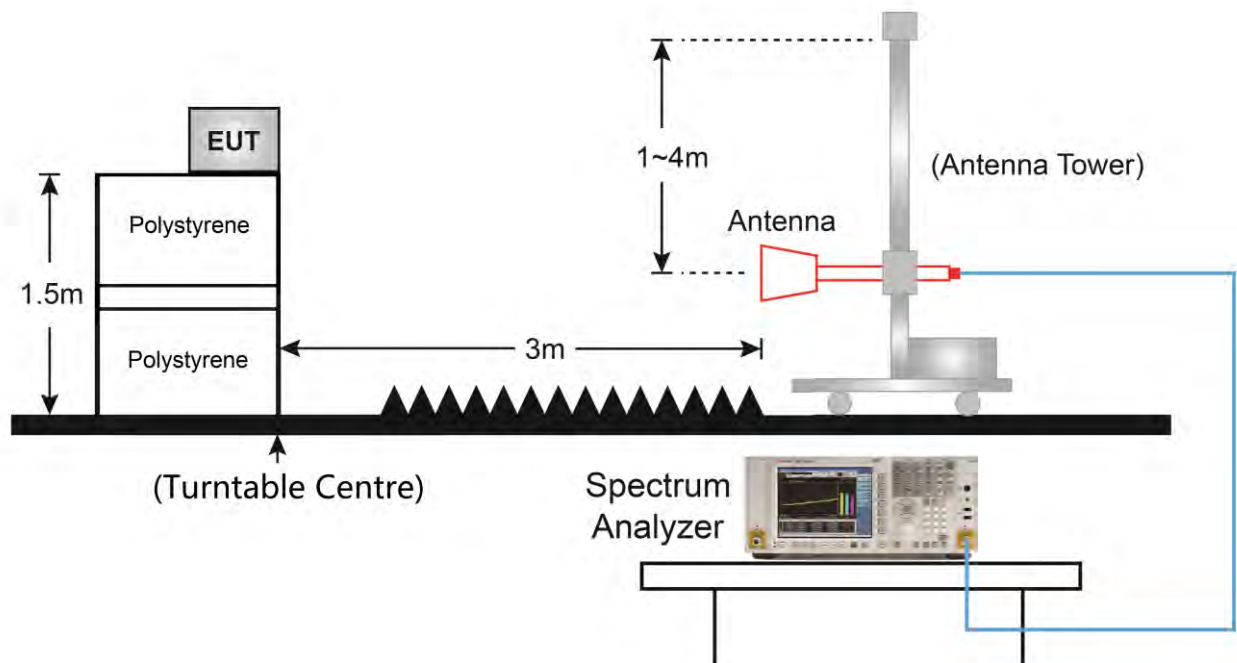
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10Hz
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration
4. Detector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

5.9.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



5.9.5. Test Result

Test Site	NS-AC1	Test Engineer	Dillon Diao
Test Mode	DH5	Test Date	2021/12/16
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 shown in the report.		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Channel 00							
4808.0	40.9	1.4	42.3	74.0	-31.7	Peak	Horizontal
7332.5	33.5	9.1	42.6	74.0	-31.4	Peak	Horizontal
11497.5	33.4	15.4	48.8	74.0	-25.2	Peak	Horizontal
4978.0	40.0	1.5	41.5	74.0	-32.5	Peak	Vertical
7681.0	34.2	8.8	43.0	74.0	-31.0	Peak	Vertical
8310.0	33.4	9.9	43.3	74.0	-30.7	Peak	Vertical
Channel 39							
4978.0	38.0	1.5	39.5	74.0	-34.5	Peak	Horizontal
7468.5	34.5	9.1	43.6	74.0	-30.4	Peak	Horizontal
8242.0	33.7	9.5	43.2	74.0	-30.8	Peak	Horizontal
4986.5	40.1	1.5	41.6	74.0	-32.4	Peak	Vertical
7485.5	34.2	9.0	43.2	74.0	-30.8	Peak	Vertical
10919.5	34.0	14.6	48.6	74.0	-25.4	Peak	Vertical
Channel 79							
4986.5	39.3	1.5	40.8	74.0	-33.2	Peak	Horizontal
8080.5	35.0	9.4	44.4	74.0	-29.6	Peak	Horizontal
10588.0	34.1	13.7	47.8	74.0	-26.2	Peak	Horizontal
4986.5	40.1	1.5	41.6	74.0	-32.4	Peak	Vertical
7443.0	34.6	9.4	44.0	74.0	-30.0	Peak	Vertical
11735.5	32.8	15.1	47.9	74.0	-26.1	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	NS-AC1	Test Engineer	Dillon Diao
Test Mode	2DH5	Test Date	2021/12/16
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 shown in the report.		

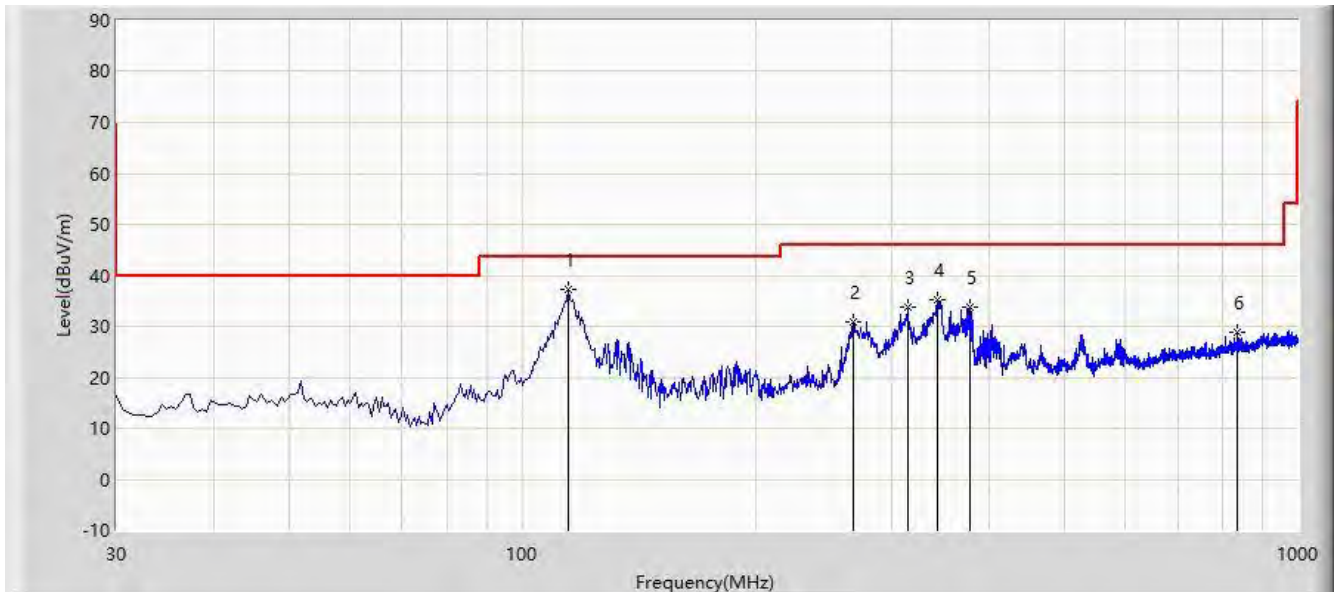
Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Channel 00							
4808.0	40.3	1.4	41.7	74.0	-32.3	Peak	Horizontal
7400.5	32.4	9.3	41.7	74.0	-32.3	Peak	Horizontal
8352.5	32.1	10.0	42.1	74.0	-31.9	Peak	Horizontal
4986.5	42.1	1.5	43.6	74.0	-30.4	Peak	Vertical
7681.0	33.8	8.8	42.6	74.0	-31.4	Peak	Vertical
8395.0	34.6	10.1	44.7	74.0	-29.3	Peak	Vertical
Channel 39							
4986.5	39.7	1.5	41.2	74.0	-32.8	Peak	Horizontal
7324.0	34.5	9.1	43.6	74.0	-30.4	Peak	Horizontal
8089.0	34.8	9.4	44.2	74.0	-29.8	Peak	Horizontal
4978.0	44.2	1.5	45.7	74.0	-28.3	Peak	Vertical
7324.0	34.9	9.1	44.0	74.0	-30.0	Peak	Vertical
11625.0	32.0	16.3	48.3	74.0	-25.7	Peak	Vertical
Channel 78							
4995.0	39.6	1.6	41.2	74.0	-32.8	Peak	Horizontal
7443.0	34.1	9.4	43.5	74.0	-30.5	Peak	Horizontal
10783.5	31.1	14.4	45.5	74.0	-28.5	Peak	Horizontal
5003.5	41.8	1.9	43.7	74.0	-30.3	Peak	Vertical
7443.0	36.2	9.4	45.6	74.0	-28.4	Peak	Vertical
11625.0	31.3	16.3	47.6	74.0	-26.4	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	NS-AC1	Test Engineer	Dillon Diao
Test Mode	3DH5	Test Date	2021/12/16
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 shown in the report.		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Channel 00							
5003.5	40.0	1.9	41.9	74.0	-32.1	Peak	Horizontal
7536.5	32.2	9.0	41.2	74.0	-32.8	Peak	Horizontal
11973.5	33.3	14.7	48.0	74.0	-26.0	Peak	Horizontal
4995.0	42.2	1.6	43.8	74.0	-30.2	Peak	Vertical
7451.5	33.7	9.3	43.0	74.0	-31.0	Peak	Vertical
11055.5	32.8	15.0	47.8	74.0	-26.2	Peak	Vertical
Channel 39							
4884.5	39.8	1.4	41.2	74.0	-32.8	Peak	Horizontal
7392.0	34.4	9.2	43.6	74.0	-30.4	Peak	Horizontal
11463.5	32.9	15.4	48.3	74.0	-25.7	Peak	Horizontal
4995.0	41.3	1.6	42.9	74.0	-31.1	Peak	Vertical
7324.0	35.8	9.1	44.9	74.0	-29.1	Peak	Vertical
11064.0	32.7	15.1	47.8	74.0	-26.2	Peak	Vertical
Channel 78							
4961.0	39.7	1.7	41.4	74.0	-32.6	Peak	Horizontal
7443.0	35.7	9.4	45.1	74.0	-28.9	Peak	Horizontal
10826.0	32.9	15.2	48.1	74.0	-25.9	Peak	Horizontal
4986.5	42.0	1.5	43.5	74.0	-30.5	Peak	Vertical
7443.0	35.0	9.4	44.4	74.0	-29.6	Peak	Vertical
11123.5	32.0	15.5	47.5	74.0	-26.5	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 Result of Radiated Emission below 1GHz:

Site: NS-AC1	Test date: 2021/12/09
Temperature: 24.5°C	Humidity: 69%
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_VULB9162	Polarity: Horizontal
EUT: Active Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by 3DH5 at channel 2480MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	114.875	37.130	23.083	-6.370	43.500	14.047	PK
2			267.650	30.867	14.384	-15.133	46.000	16.483	PK
3			313.725	33.685	16.550	-12.315	46.000	17.134	PK
4			343.310	35.083	16.806	-10.917	46.000	18.277	PK
5			378.715	33.882	15.104	-12.118	46.000	18.778	PK
6			834.615	28.771	2.110	-17.229	46.000	26.661	PK

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

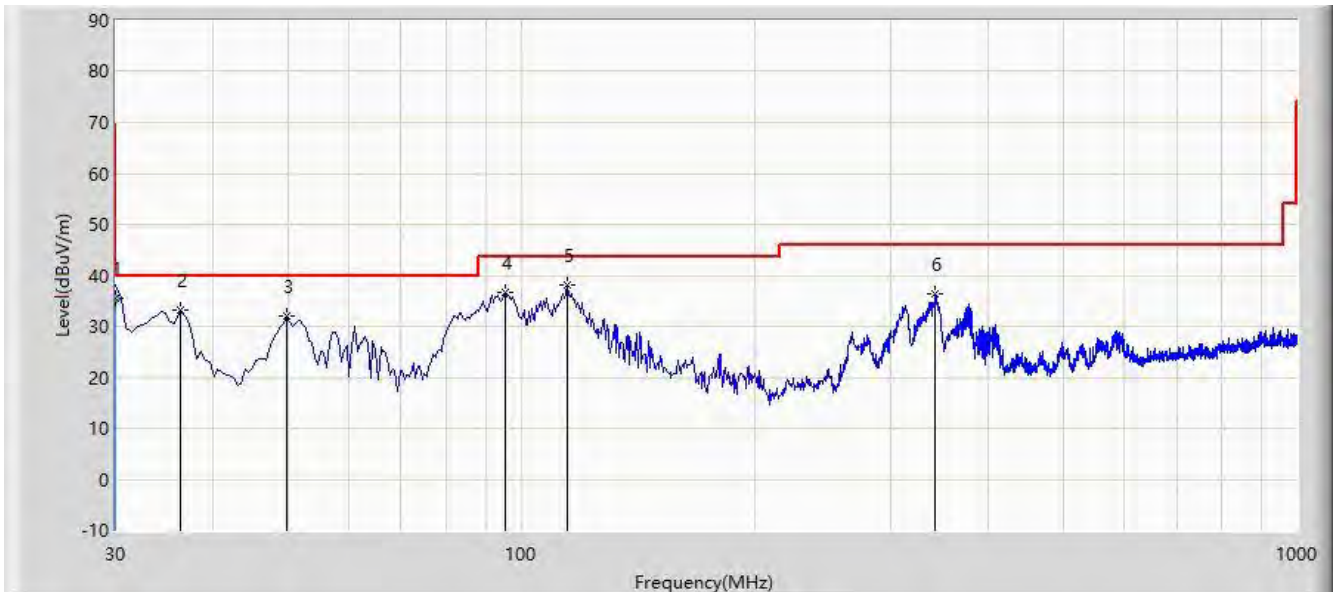
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: 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.

Note 3: QP measurement was not performed when peak measure level was lower than the QP limit.

Site: NS-AC1	Test date: 2021/12/09
Temperature: 24.5°C	Humidity: 69%
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_VULB9162	Polarity: Vertical
EUT: Active Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by 3DH5 at channel 2480MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	30.000	35.506	21.100	-4.494	40.000	14.405	QP
2			36.305	33.188	18.087	-6.812	40.000	15.101	PK
3			49.885	31.910	14.340	-8.090	40.000	17.570	PK
4			95.475	36.591	21.990	-6.909	43.500	14.601	PK
5			114.875	38.164	24.117	-5.336	43.500	14.047	PK
6			342.340	36.521	18.300	-9.479	46.000	18.220	PK

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

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

Note 2: 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.

Note 3: QP measurement was not performed when peak measure level was lower than the QP limit.

5.10. Radiated Restricted Band Edge Measurement

5.10.1. 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 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 ($\mu\text{V/m}$)	Measured Distance (m)
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

5.10.2.Test Procedure Used

ANSI C63.10-2013 - Section 6.3 & 6.6 & 6.10

5.10.3.Test Setting

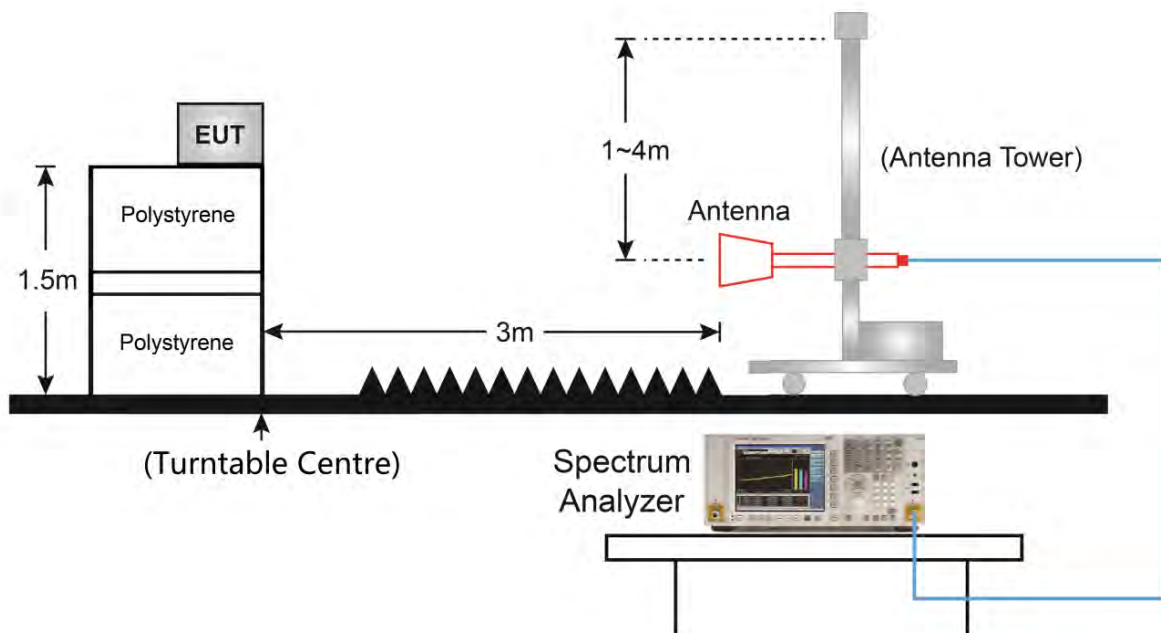
Peak Field Strength Measurements

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 Measurements above 1GHz (Method VB)

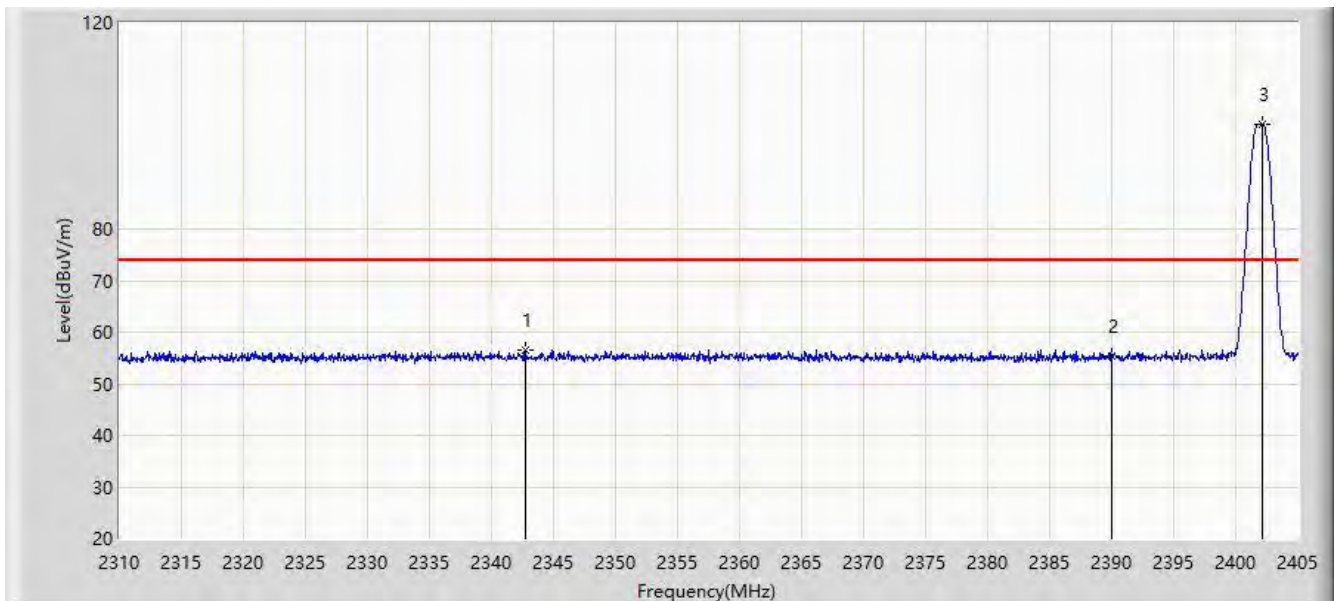
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10Hz
4. If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration
5.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

5.10.4.Test Setup



5.10.5. Test Result

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by DH5 at channel 2402MHz	

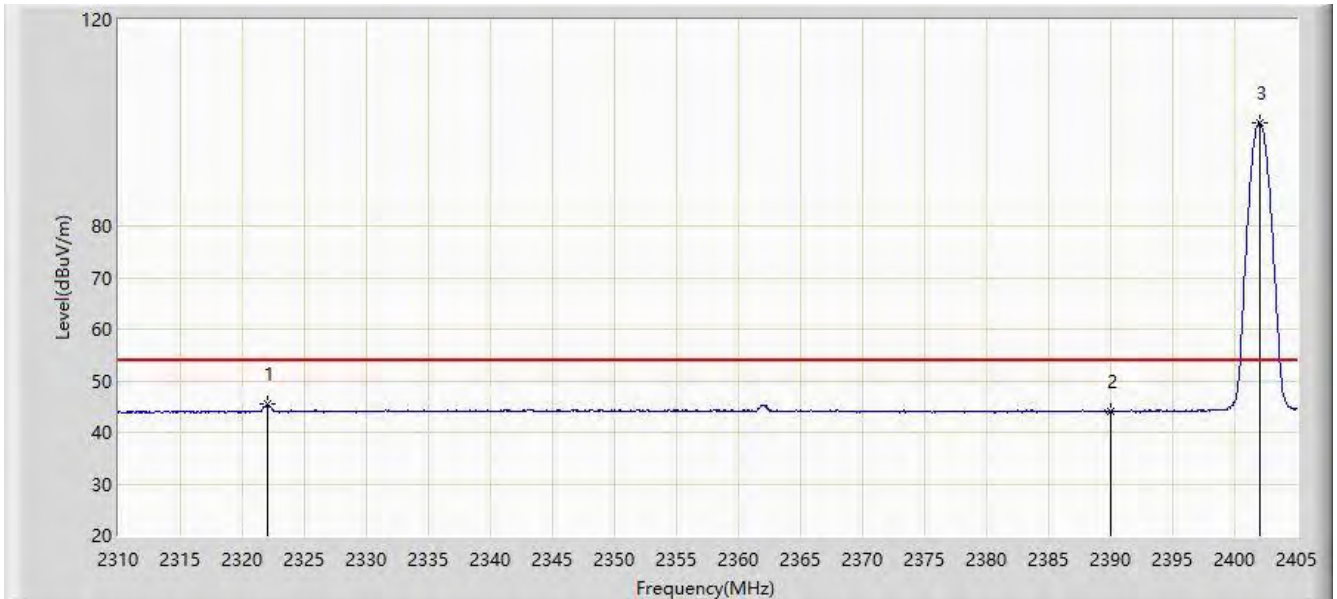


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2342.680	56.548	25.361	-17.452	74.000	31.187	PK
2			2390.000	55.388	24.485	-18.612	74.000	30.903	PK
3		*	2402.150	100.395	69.459	N/A	N/A	30.936	PK

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by DH5 at channel 2402MHz	

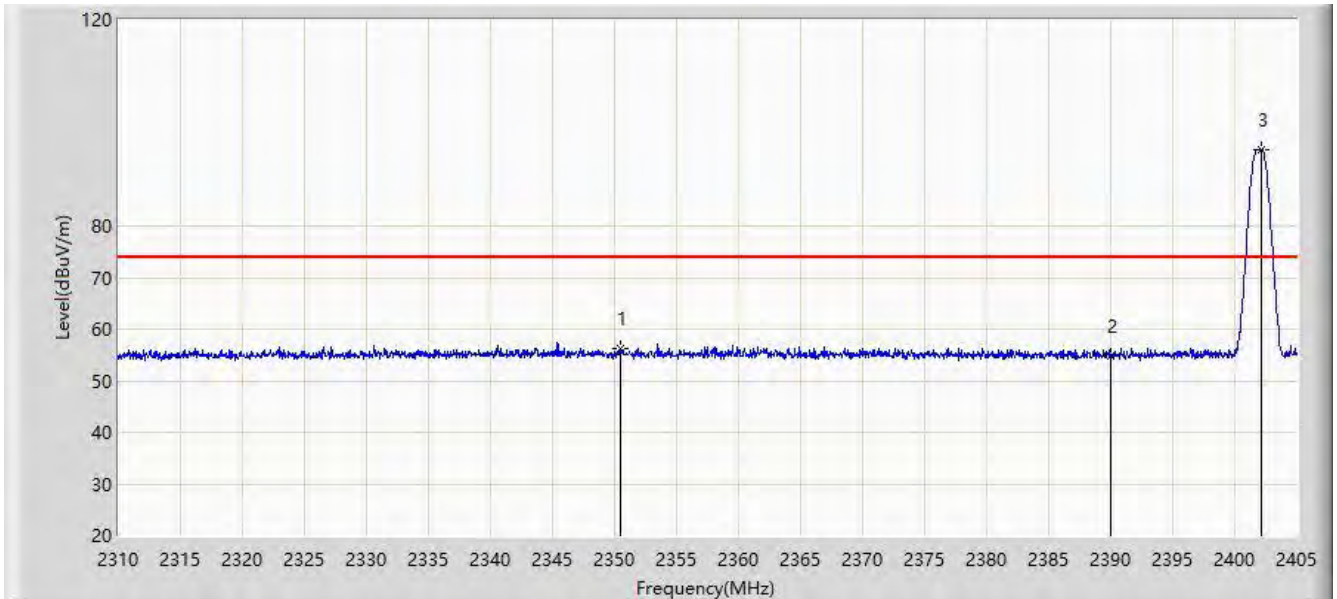


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2322.018	45.368	14.235	-8.632	54.000	31.133	AV
2			2390.000	44.082	13.179	-9.918	54.000	30.903	AV
3		*	2402.008	99.981	69.046	N/A	N/A	30.935	AV

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by DH5 at channel 2402MHz	

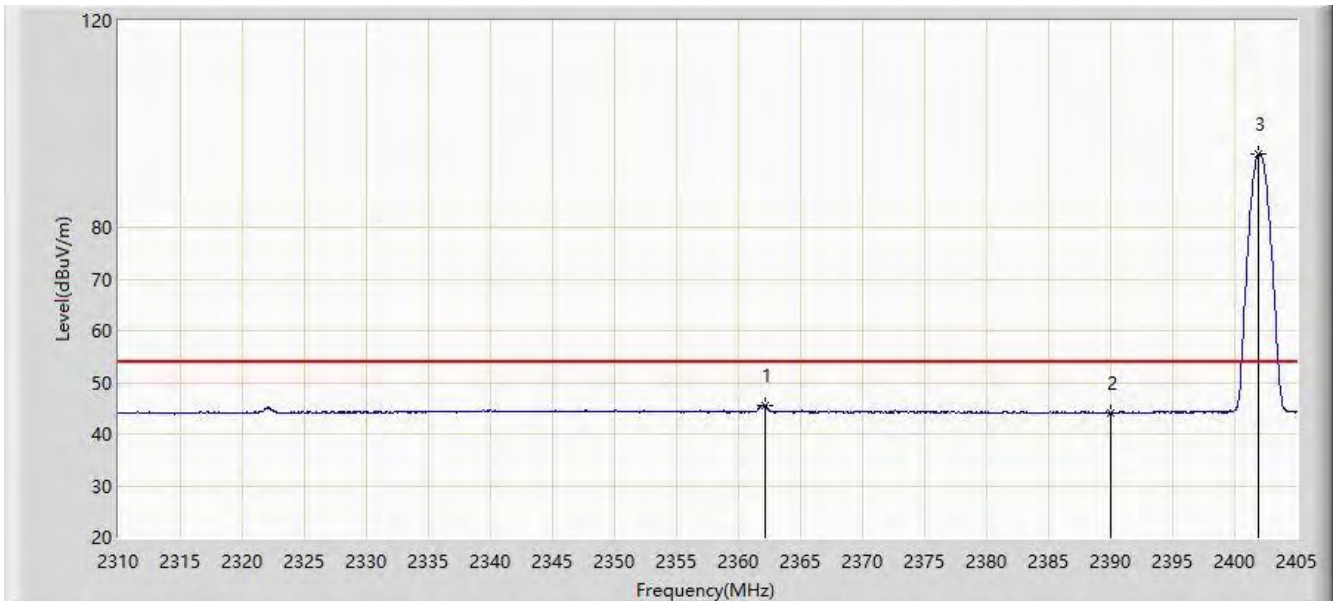


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2350.518	56.359	25.259	-17.641	74.000	31.099	PK
2			2390.000	54.865	23.962	-19.135	74.000	30.903	PK
3		*	2402.150	94.844	63.908	N/A	N/A	30.936	PK

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by DH5 at channel 2402MHz	

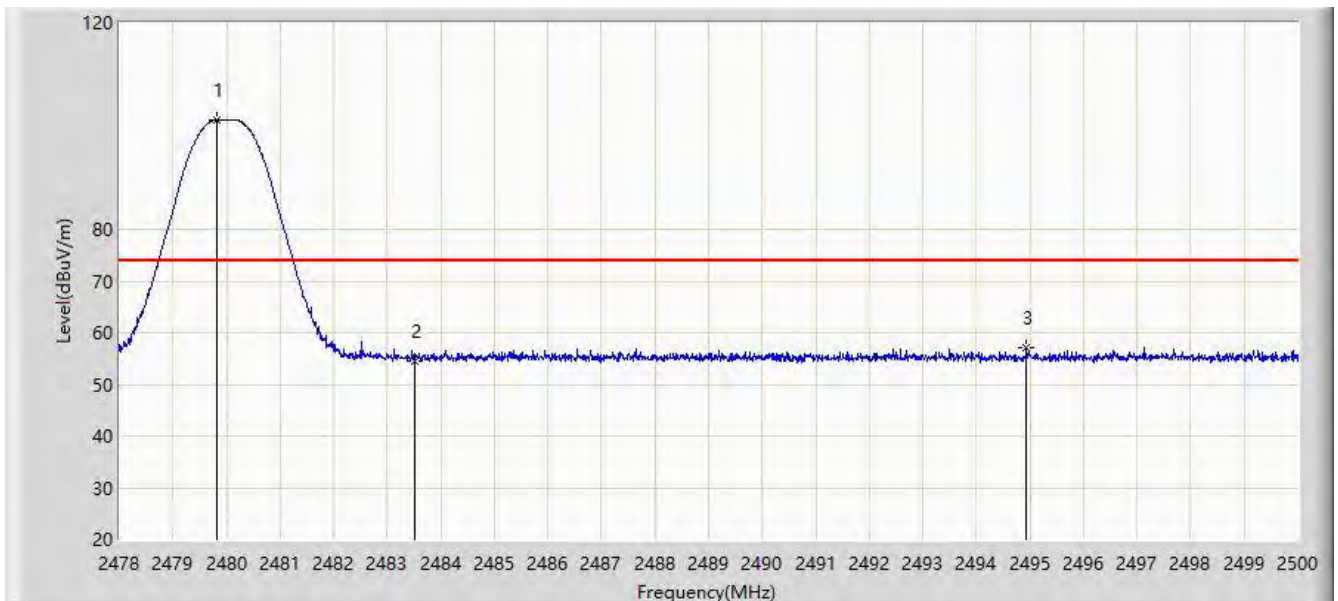


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2362.107	45.465	14.486	-8.535	54.000	30.979	AV
2			2390.000	44.111	13.208	-9.889	54.000	30.903	AV
3		*	2401.865	94.088	63.153	N/A	N/A	30.935	AV

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by DH5 at channel 2480MHz	

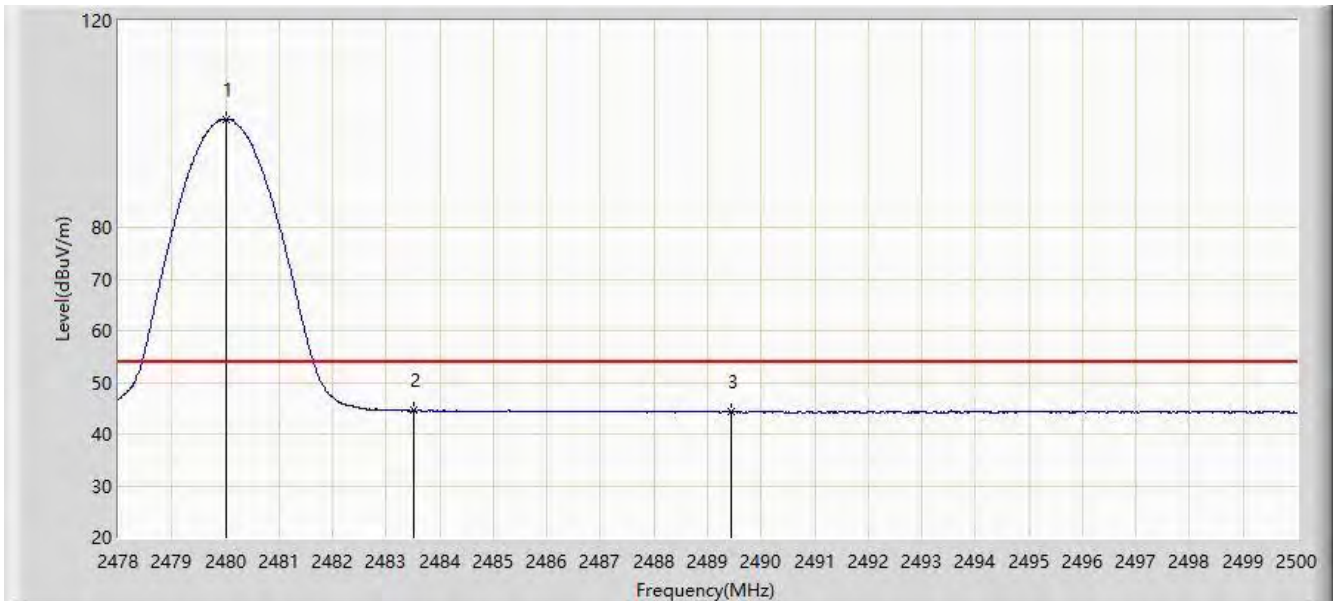


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2479.826	101.212	70.342	N/A	N/A	30.870	PK
2			2483.500	54.619	23.730	-19.381	74.000	30.889	PK
3			2494.940	57.160	26.214	-16.840	74.000	30.946	PK

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by DH5 at channel 2480MHz	

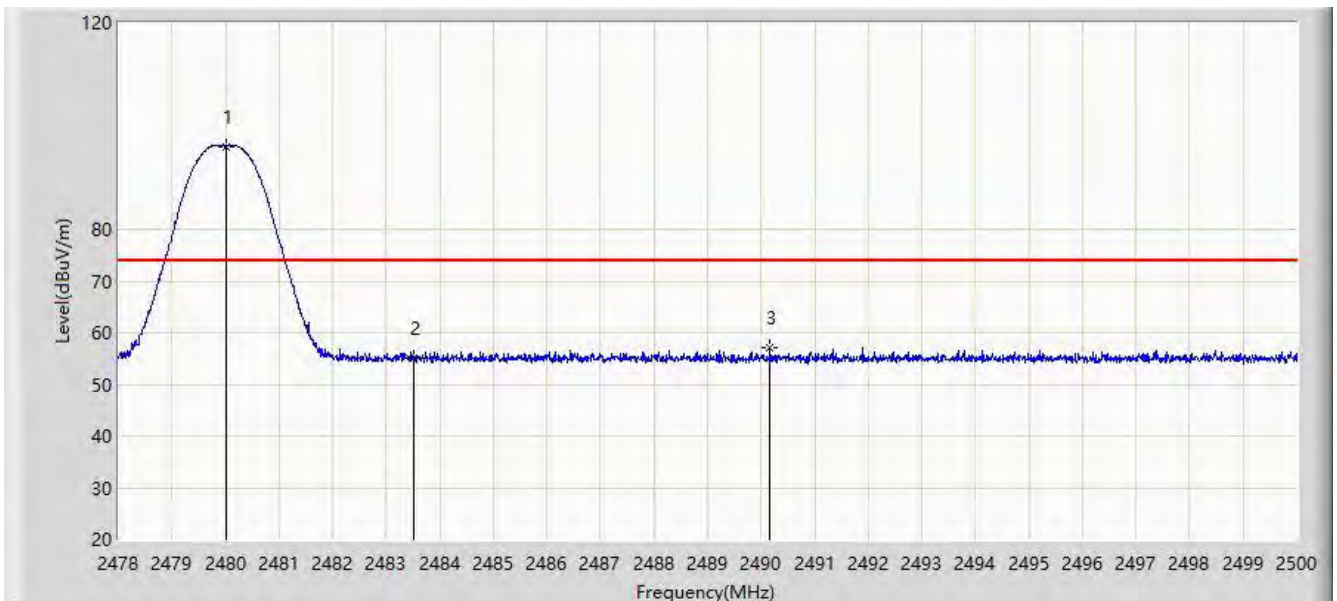


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2480.002	100.939	70.068	N/A	N/A	30.871	AV
2			2483.500	44.531	13.642	-9.469	54.000	30.889	AV
3			2489.451	44.388	13.469	-9.612	54.000	30.919	AV

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by DH5 at channel 2480MHz	

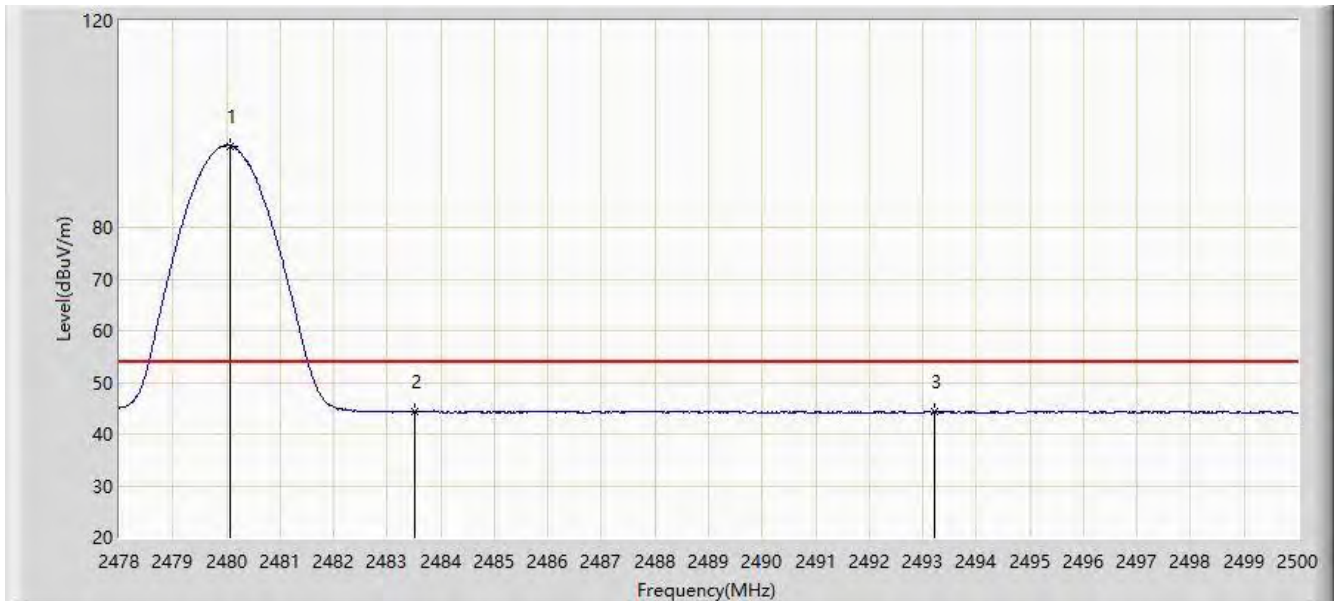


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2480.002	96.085	65.214	N/A	N/A	30.871	PK
2			2483.500	55.164	24.275	-18.836	74.000	30.889	PK
3			2490.166	56.959	26.037	-17.041	74.000	30.922	PK

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by DH5 at channel 2480MHz	

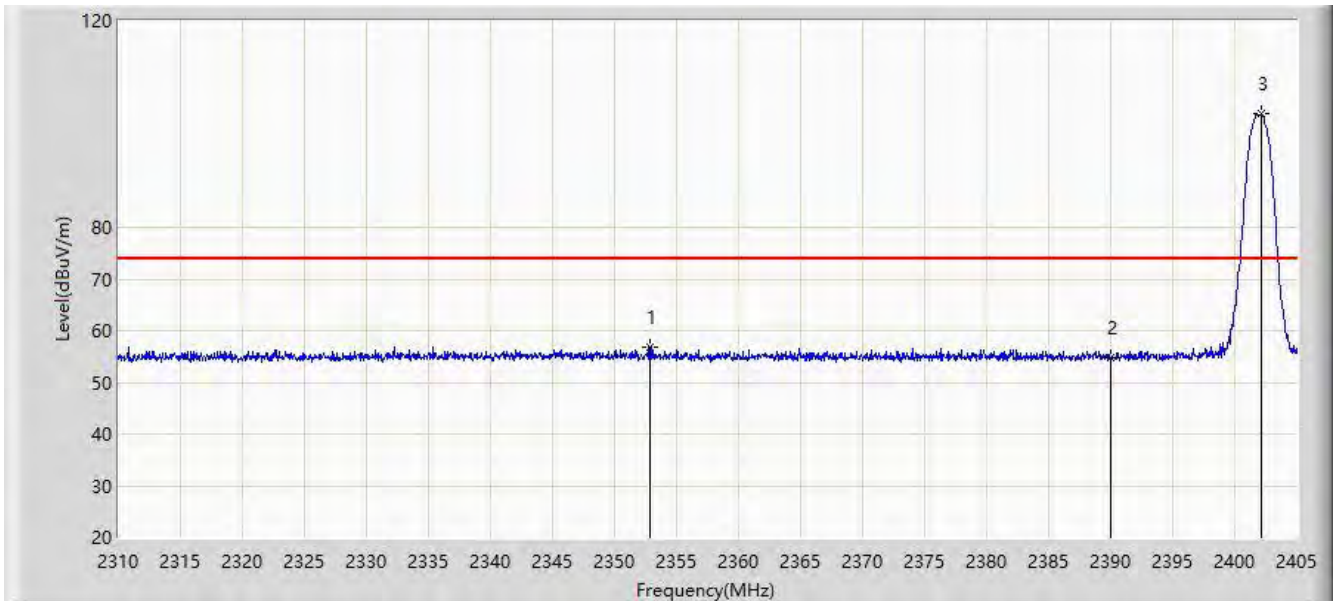


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2480.079	95.752	64.880	N/A	N/A	30.872	AV
2			2483.500	44.259	13.370	-9.741	54.000	30.889	AV
3			2493.213	44.270	13.333	-9.730	54.000	30.937	AV

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 2DH5 at channel 2402MHz	

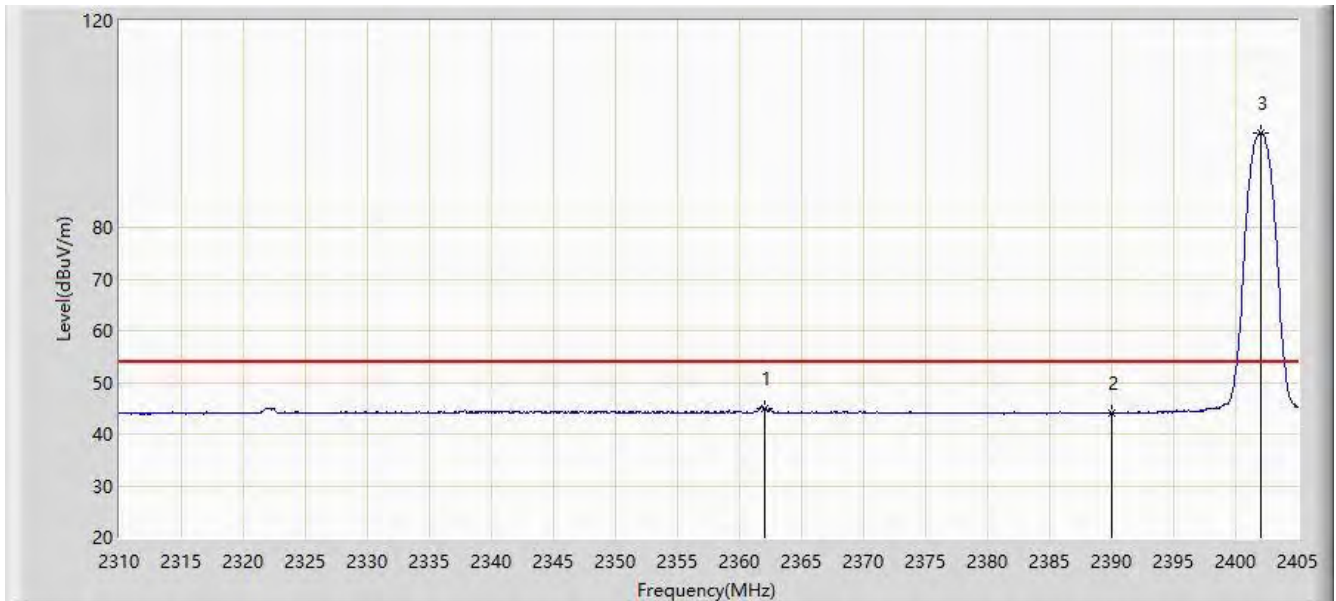


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2352.798	56.805	25.732	-17.195	74.000	31.073	PK
2			2390.000	54.684	23.781	-19.316	74.000	30.903	PK
3		*	2402.150	101.887	70.951	N/A	N/A	30.936	PK

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 2DH5 at channel 2402MHz	

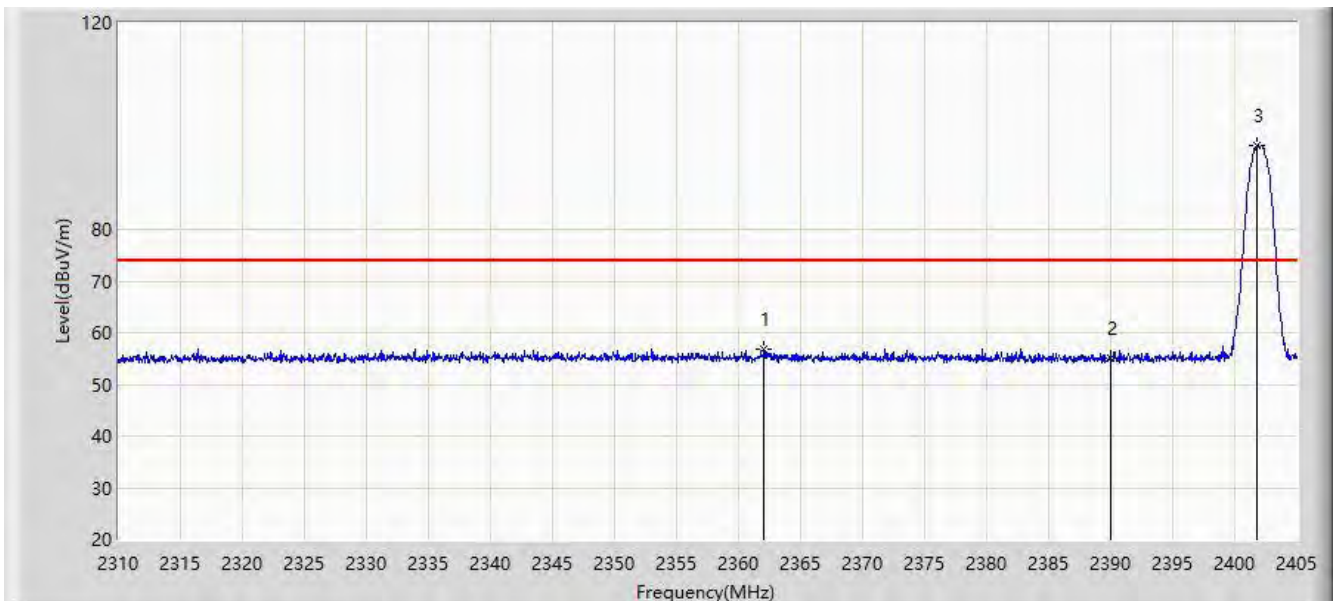


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			2361.965	45.030	14.050	-8.970	54.000	30.979	AV
2			2390.000	44.112	13.209	-9.888	54.000	30.903	AV
3		*	2402.008	98.341	67.406	N/A	N/A	30.935	AV

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 2DH5 at channel 2402MHz	

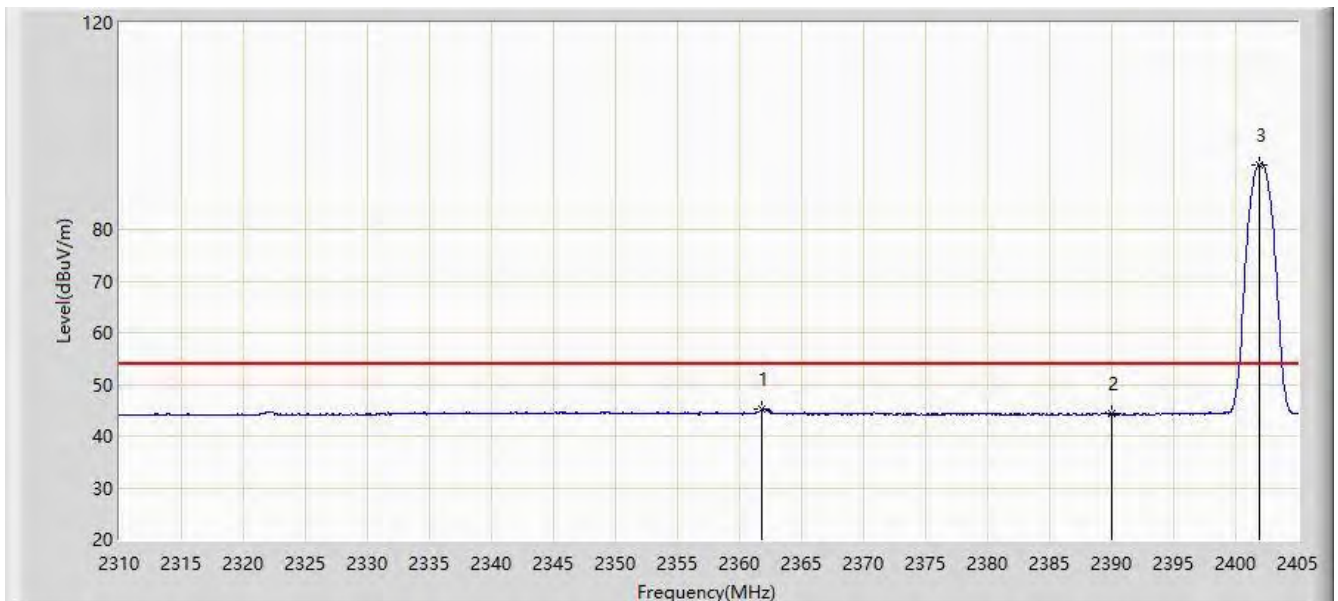


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2362.060	56.930	25.951	-17.070	74.000	30.979	PK
2			2390.000	55.023	24.120	-18.977	74.000	30.903	PK
3		*	2401.817	96.316	65.381	N/A	N/A	30.934	PK

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 2DH5 at channel 2402MHz	

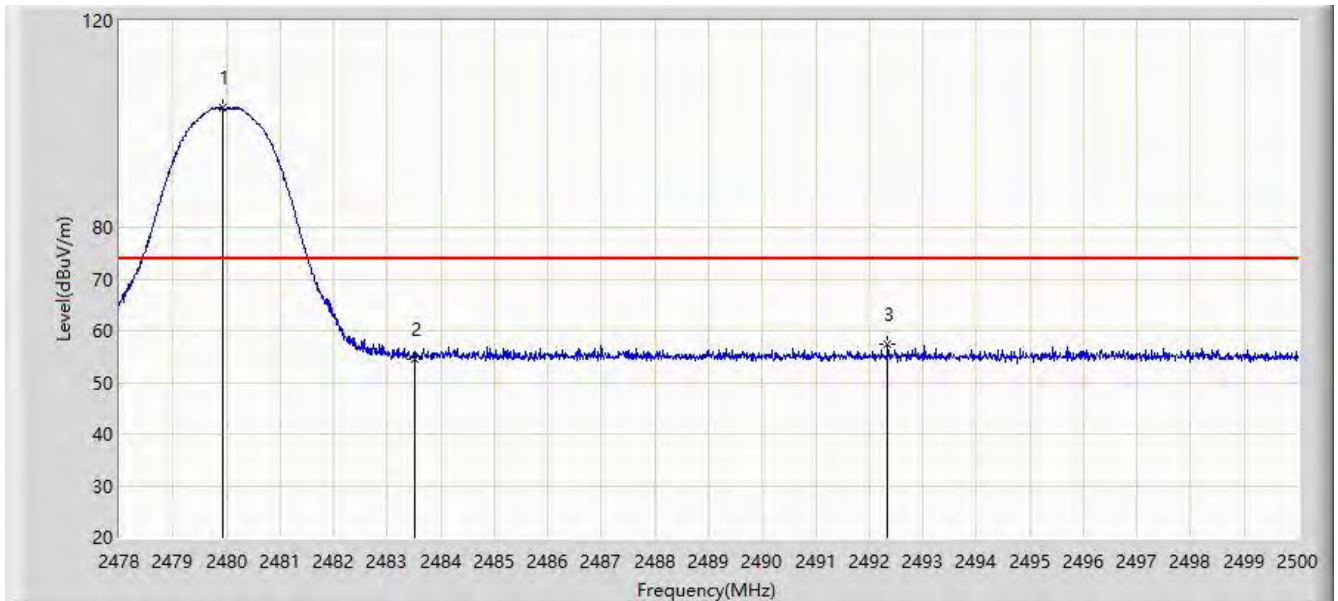


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2361.823	45.235	14.255	-8.765	54.000	30.981	AV
2			2390.000	44.241	13.338	-9.759	54.000	30.903	AV
3		*	2401.865	92.558	61.623	N/A	N/A	30.935	AV

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 2DH5 at channel 2480MHz	

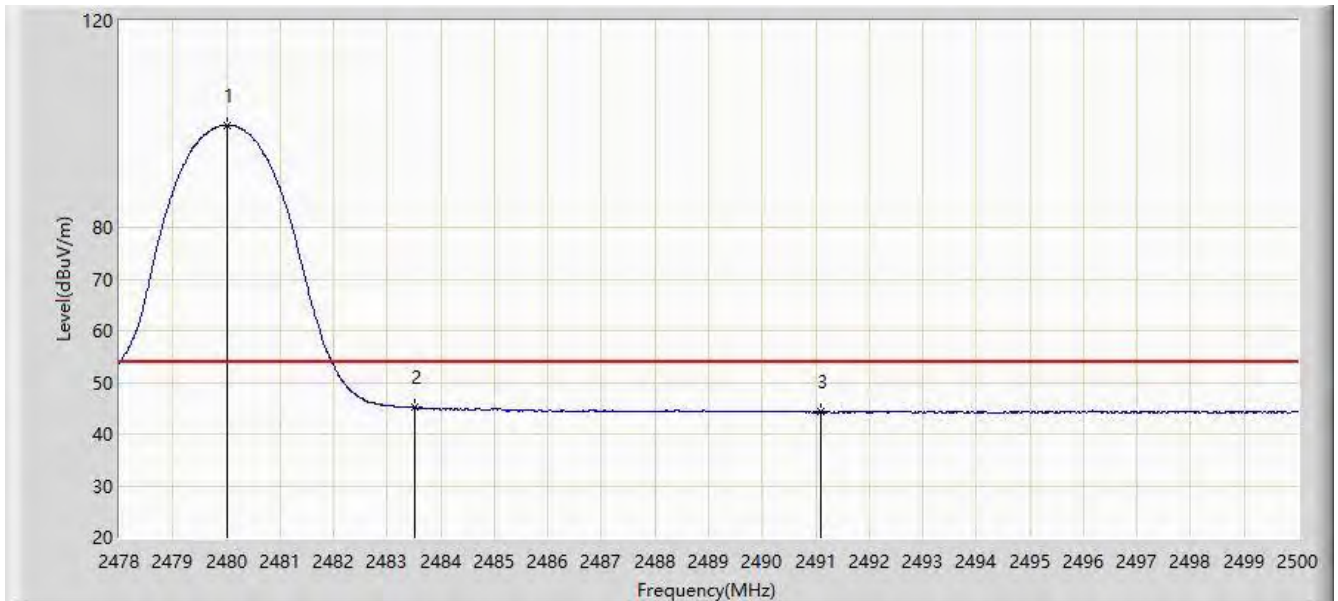


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2479.936	103.116	72.245	N/A	N/A	30.871	PK
2			2483.500	54.429	23.540	-19.571	74.000	30.889	PK
3			2492.344	57.285	26.352	-16.715	74.000	30.933	PK

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 2DH5 at channel 2480MHz	

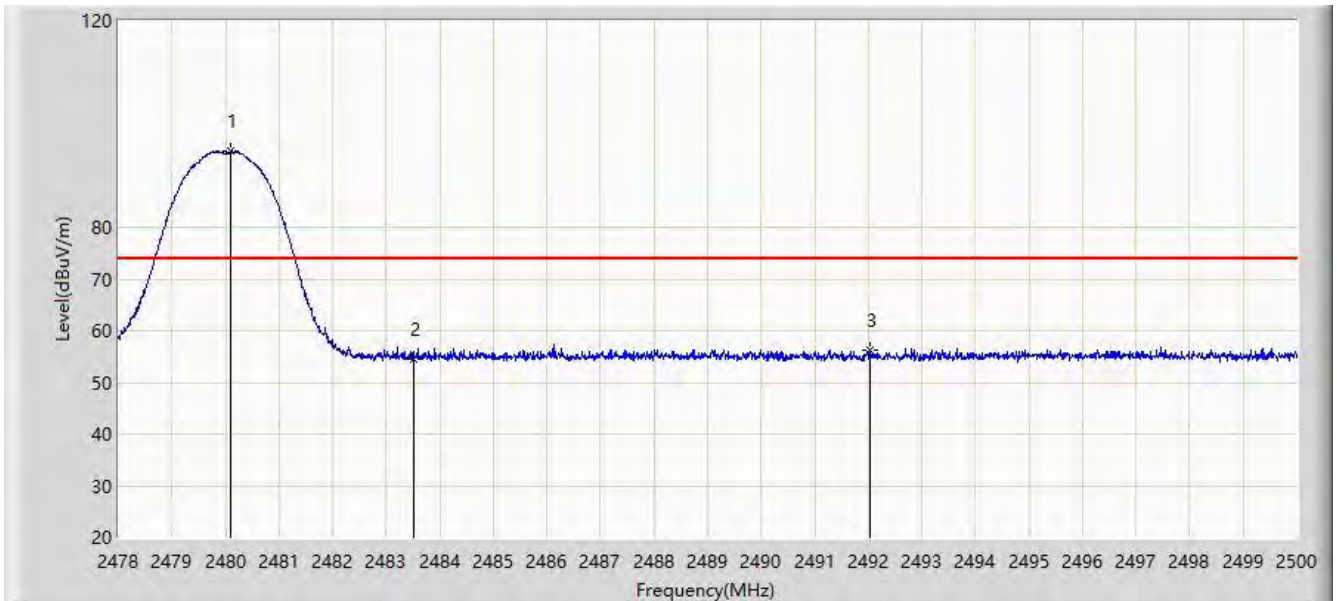


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2480.002	99.815	68.944	N/A	N/A	30.871	AV
2			2483.500	45.123	14.234	-8.877	54.000	30.889	AV
3			2491.101	44.389	13.462	-9.611	54.000	30.927	AV

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 2DH5 at channel 2480MHz	

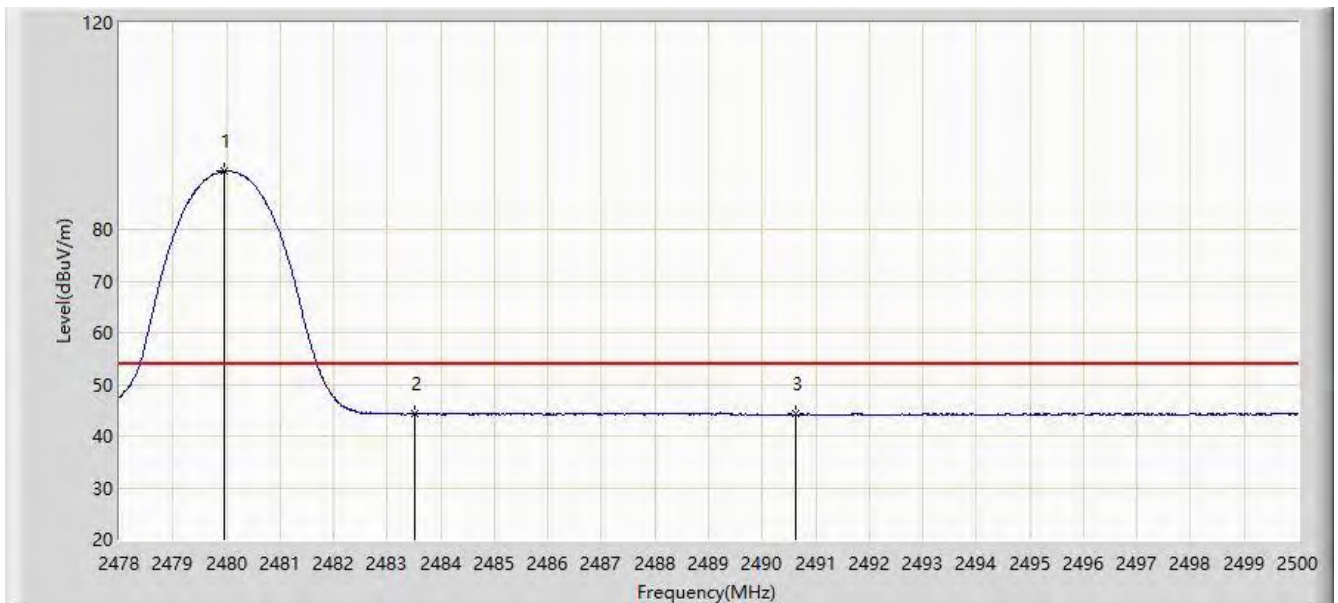


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2480.101	94.724	63.852	N/A	N/A	30.872	PK
2			2483.500	54.567	23.678	-19.433	74.000	30.889	PK
3			2492.025	56.294	25.363	-17.706	74.000	30.931	PK

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 2DH5 at channel 2480MHz	

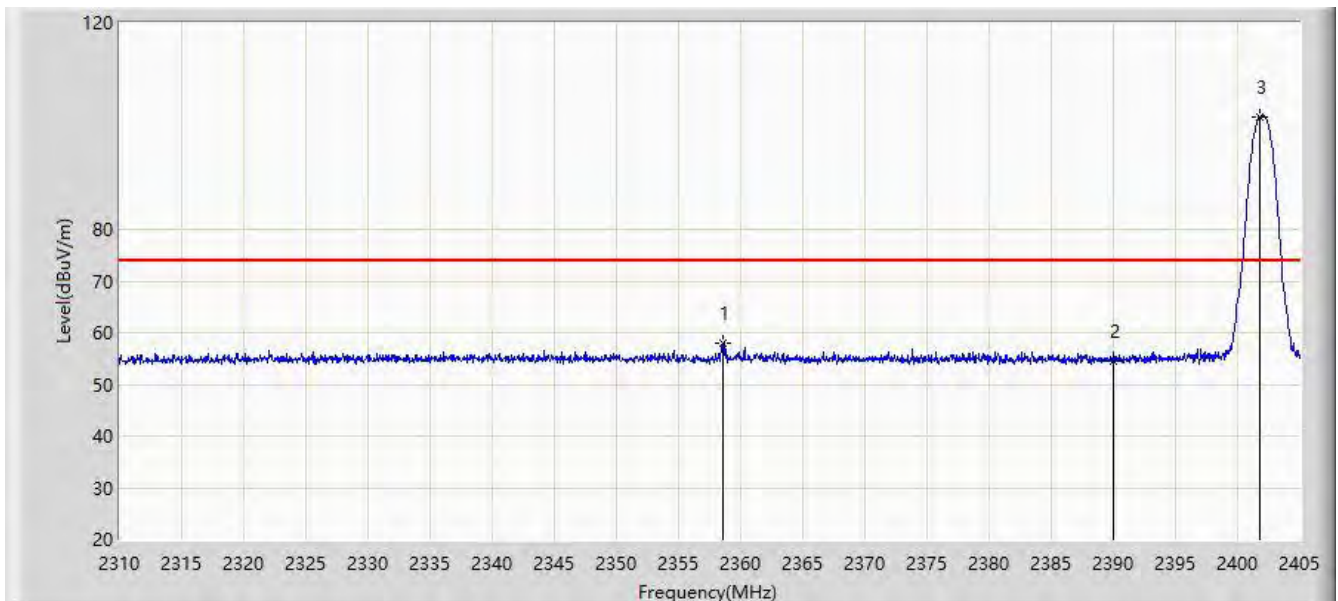


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2479.969	91.294	60.423	N/A	N/A	30.871	AV
2			2483.500	44.263	13.374	-9.737	54.000	30.889	AV
3			2490.617	44.239	13.315	-9.761	54.000	30.924	AV

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 3DH5 at channel 2402MHz	

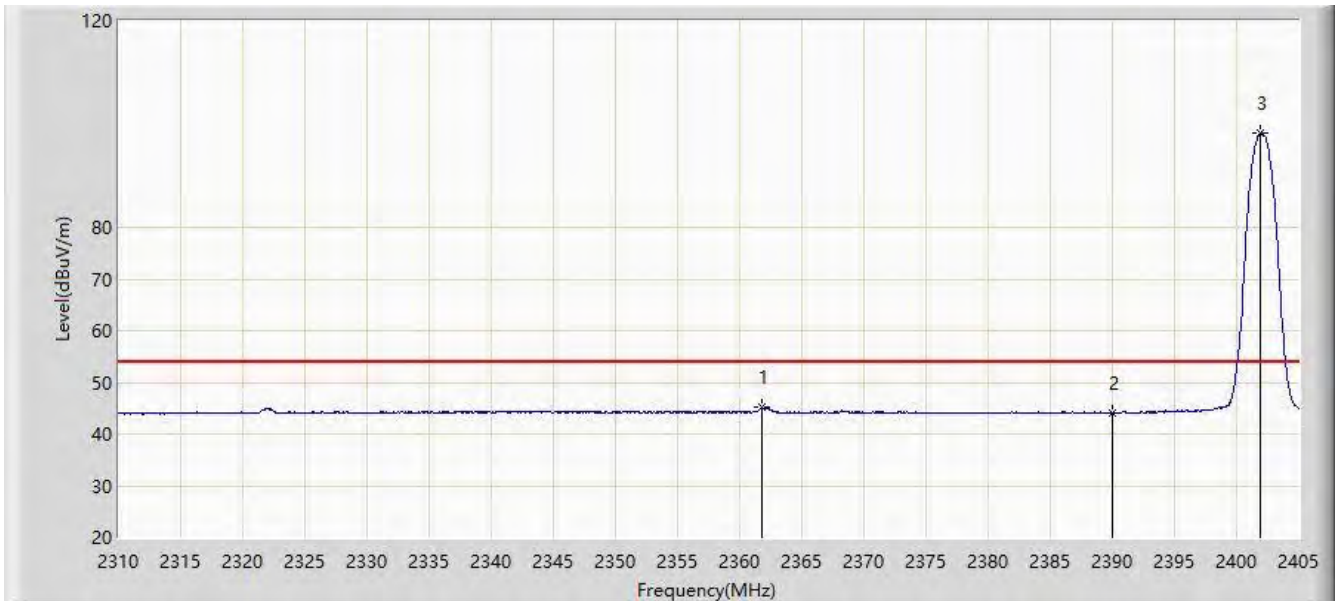


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2358.593	57.854	26.849	-16.146	74.000	31.005	PK
2			2390.000	54.484	23.581	-19.516	74.000	30.903	PK
3		*	2401.817	101.836	70.901	N/A	N/A	30.934	PK

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 3DH5 at channel 2402MHz	

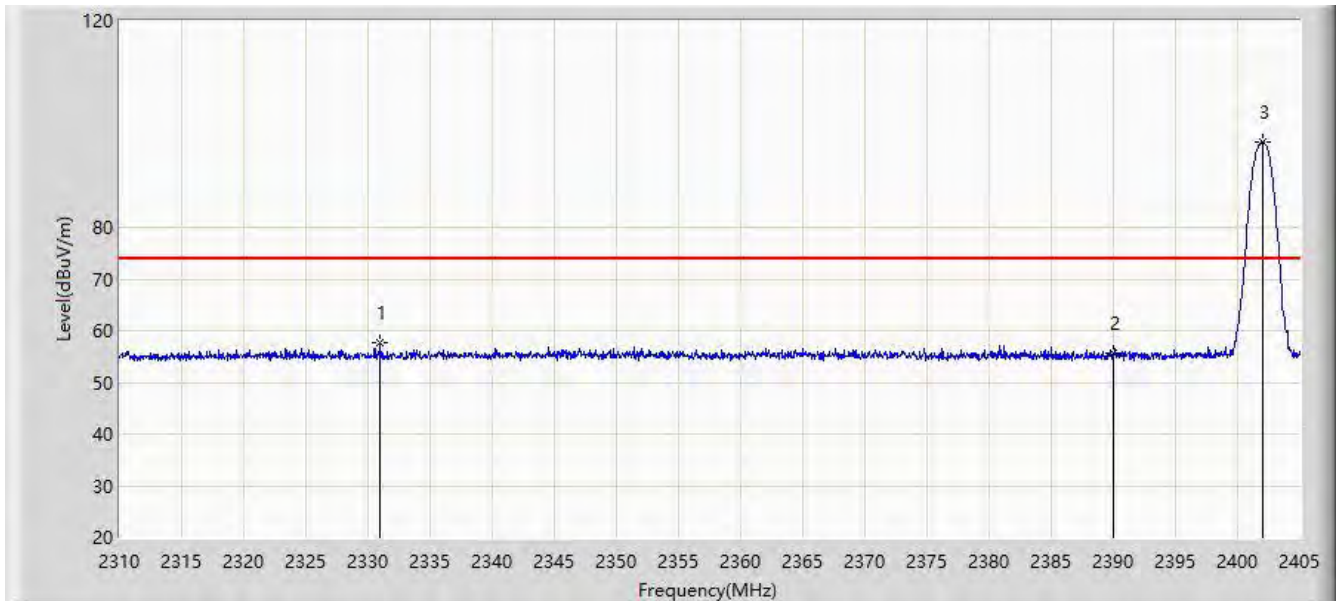


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			2361.775	45.126	14.145	-8.874	54.000	30.981	AV
2			2390.000	44.046	13.143	-9.954	54.000	30.903	AV
3		*	2401.865	98.159	67.224	N/A	N/A	30.935	AV

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 3DH5 at channel 2402MHz	

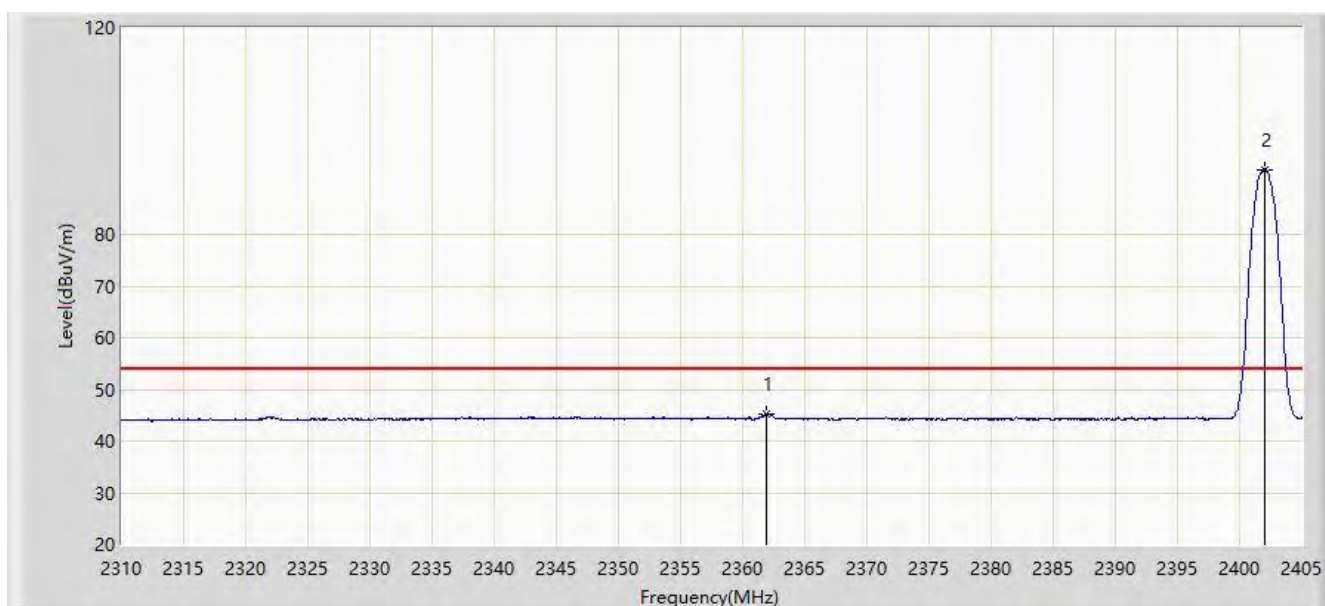


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2330.995	57.596	26.448	-16.404	74.000	31.148	PK
2			2390.000	55.530	24.627	-18.470	74.000	30.903	PK
3		*	2402.008	96.619	65.684	N/A	N/A	30.935	PK

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 3DH5 at channel 2402MHz	

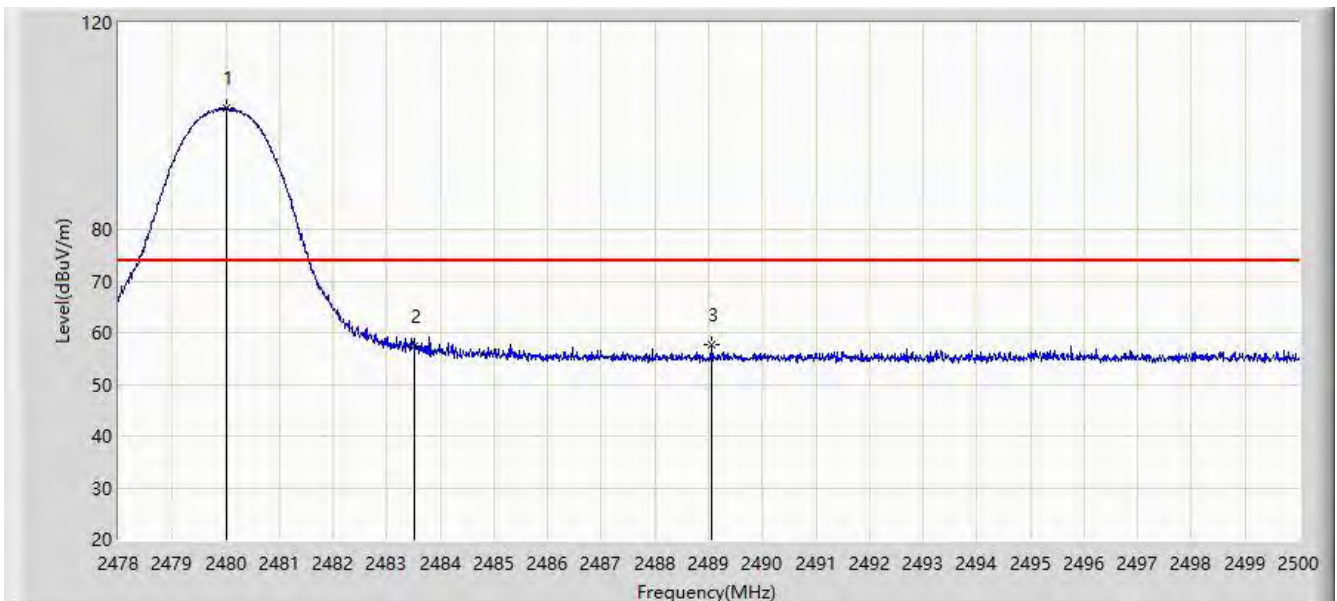


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			2361.917	45.319	14.339	-8.681	54.000	30.979	AV
2		*	2402.008	92.580	61.645	N/A	N/A	30.935	AV

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 3DH5 at channel 2480MHz	

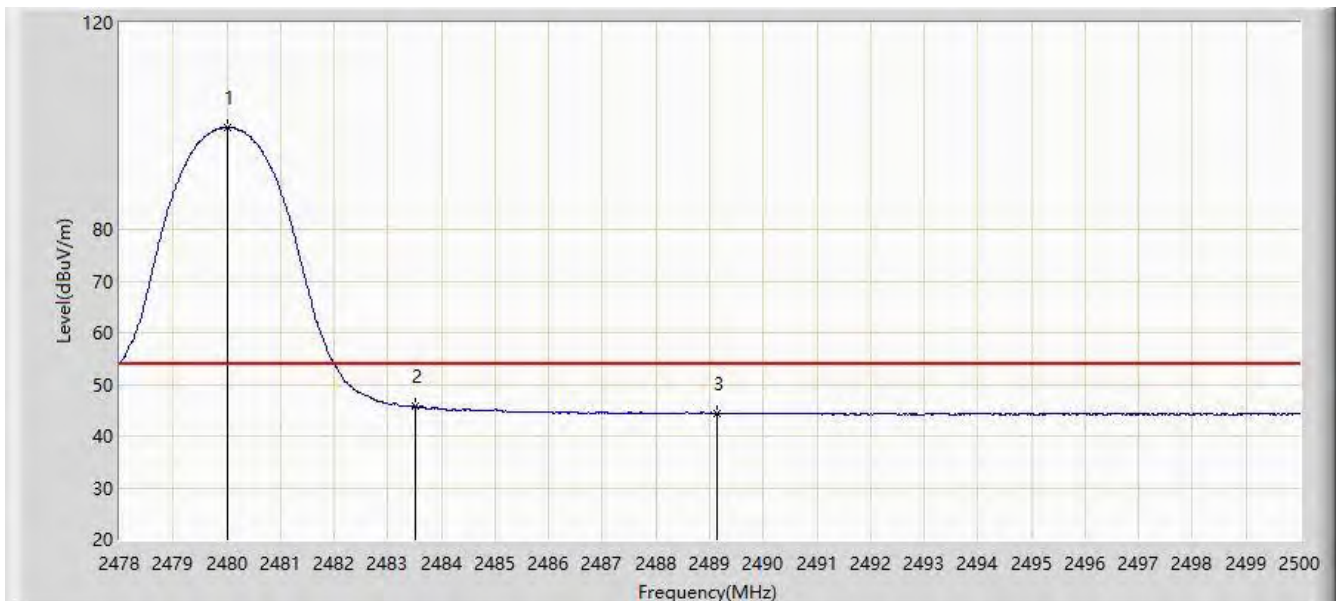


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2480.024	103.439	72.568	N/A	N/A	30.871	PK
2			2483.500	57.342	26.453	-16.658	74.000	30.889	PK
3			2489.055	57.685	26.768	-16.315	74.000	30.917	PK

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 3DH5 at channel 2480MHz	

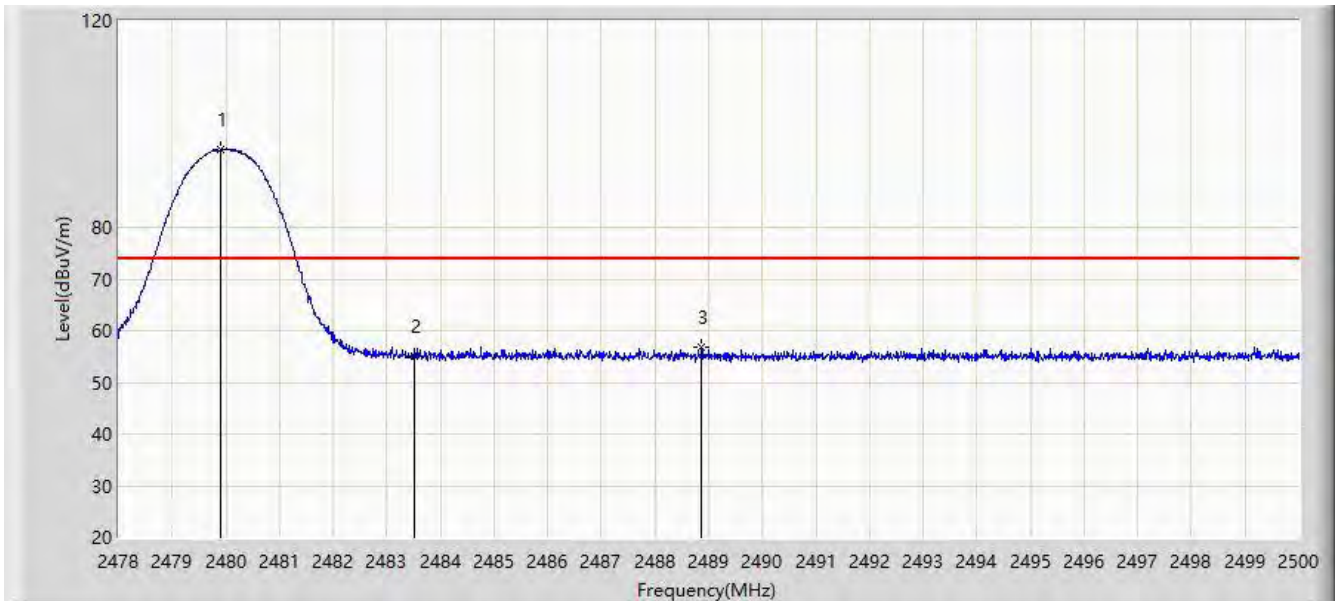


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2480.002	99.683	68.812	N/A	N/A	30.871	AV
2			2483.500	45.800	14.911	-8.200	54.000	30.889	AV
3			2489.143	44.394	13.477	-9.606	54.000	30.917	AV

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 3DH5 at channel 2480MHz	

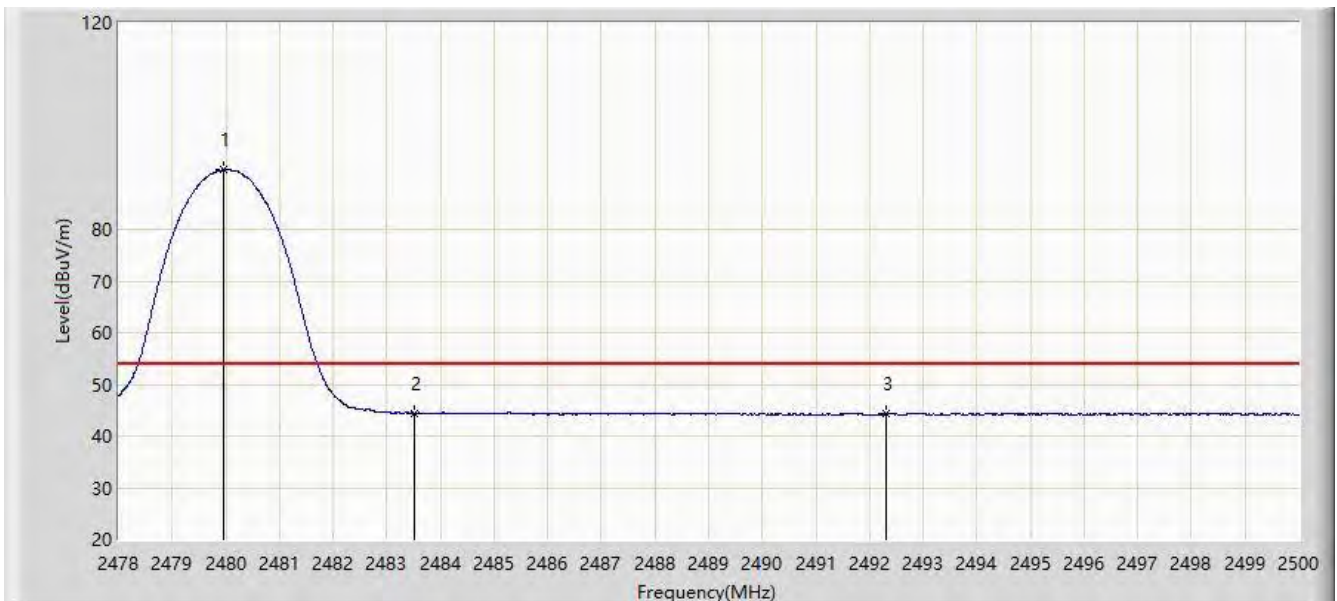


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2479.914	95.158	64.287	N/A	N/A	30.871	PK
2			2483.500	54.934	24.045	-19.066	74.000	30.889	PK
3			2488.868	56.699	25.783	-17.301	74.000	30.916	PK

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

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

Site: NS-AC1	Test date: 2021/12/15
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Active Speaker	Power: AC 120V/60Hz
Note: Transmit by 3DH5 at channel 2480MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2479.969	91.522	60.651	N/A	N/A	30.871	AV
2			2483.500	44.428	13.539	-9.572	54.000	30.889	AV
3			2492.300	44.380	13.447	-9.620	54.000	30.933	AV

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

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

5.11. AC Conducted Emissions Measurement

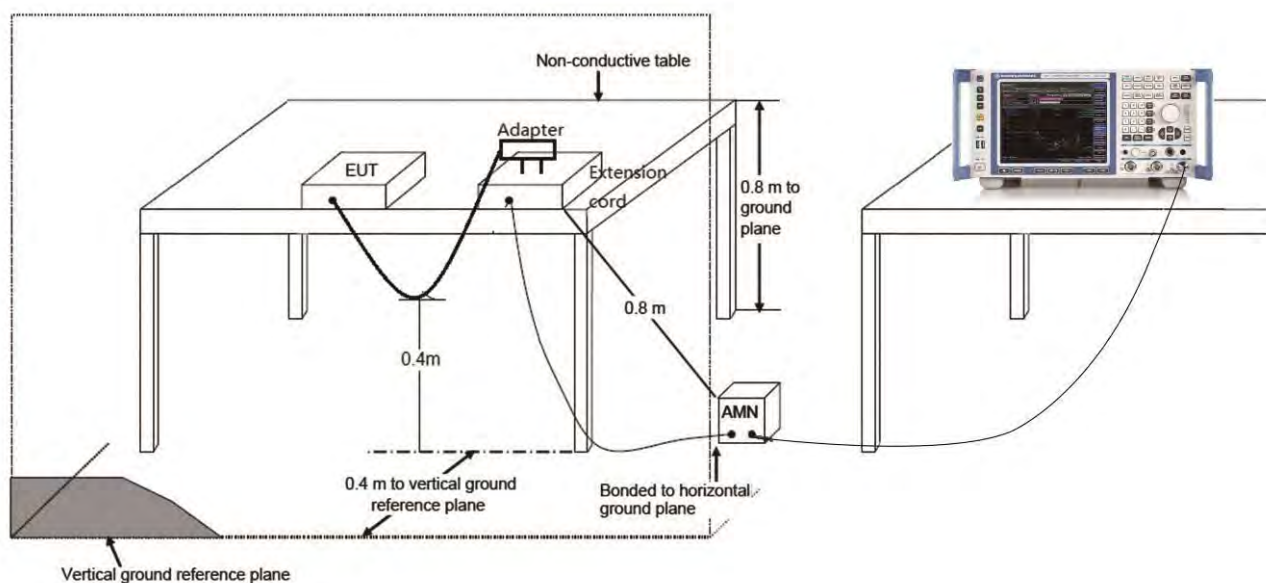
5.11.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	Average (dB μ V)
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.

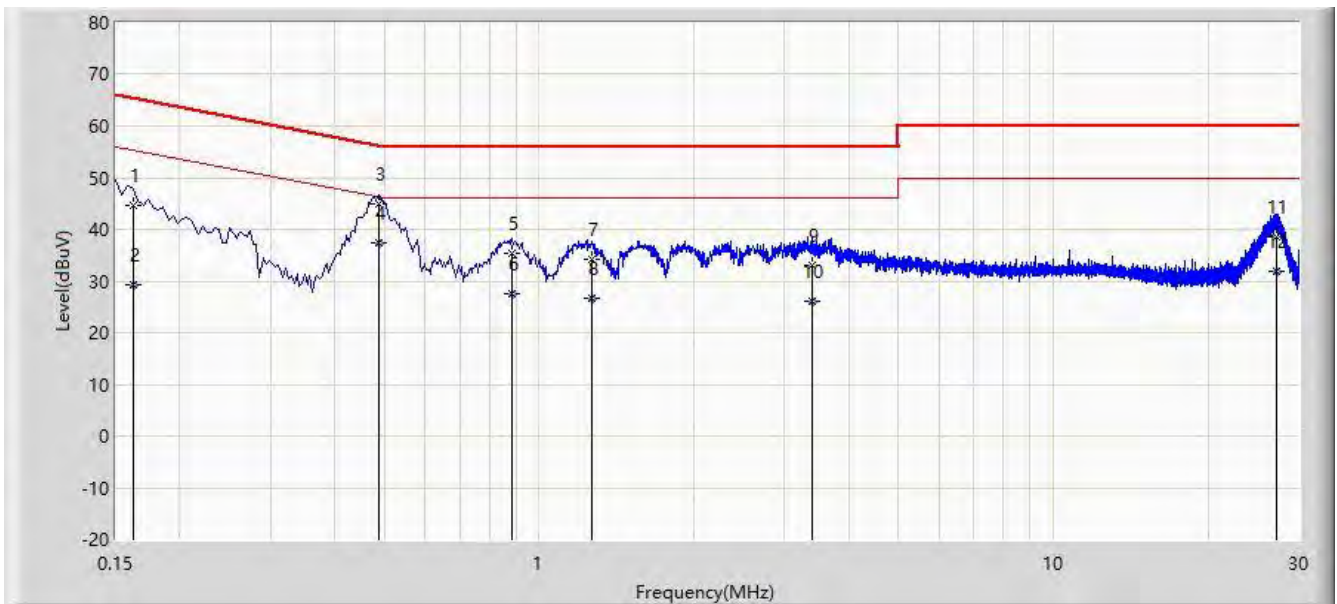
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

5.11.2. Test Setup



5.11.3. Test Result

Site: NS-SR2	Test date:2021/12/23
Temperature:22.8°C	Humidity:61%
Limit: FCC_Part15.207_CE_AC Power	Engineer: Flag Yang
Probe: ENV216_102493_9KHz~150KHz-C	Polarity: Line
EUT: Active Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by 3DH5 at channel 2480MHz	

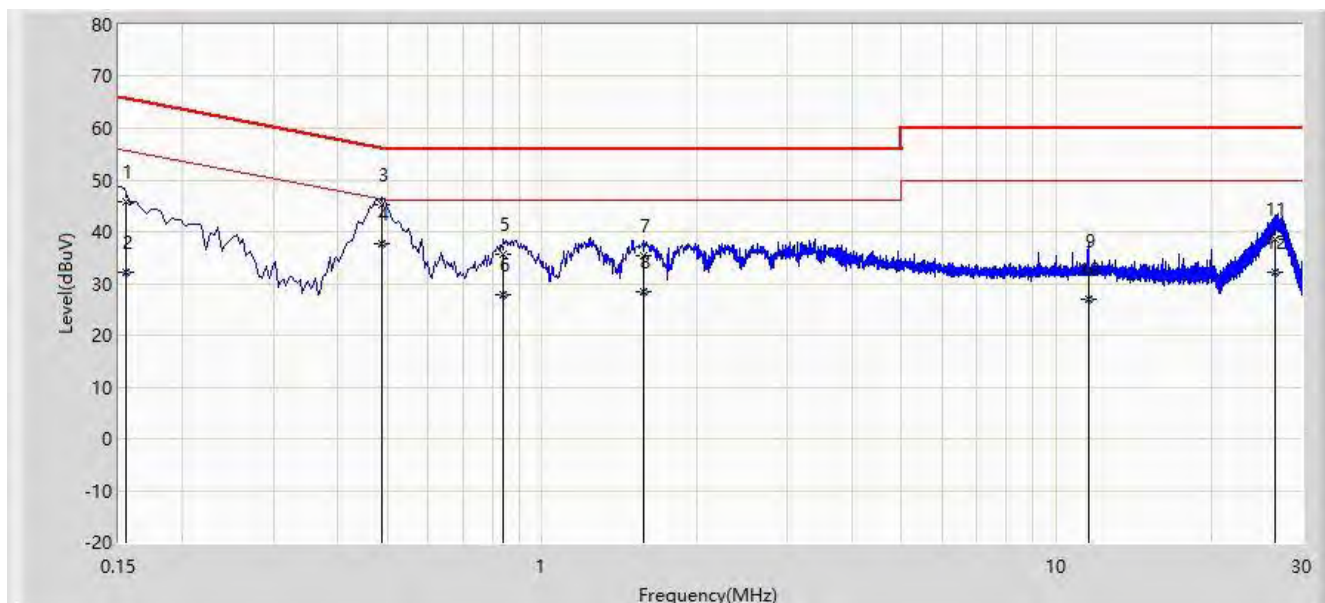


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.162	44.625	34.818	-20.736	65.361	9.807	QP
2			0.162	29.412	19.605	-25.948	55.361	9.807	AV
3			0.486	44.803	35.090	-11.433	56.236	9.713	QP
4		*	0.486	37.409	27.696	-8.827	46.236	9.713	AV
5			0.886	35.354	25.609	-20.646	56.000	9.745	QP
6			0.886	27.550	17.804	-18.450	46.000	9.745	AV
7			1.266	34.121	24.365	-21.879	56.000	9.756	QP
8			1.266	26.594	16.838	-19.406	46.000	9.756	AV
9			3.394	32.984	23.177	-23.016	56.000	9.806	QP
10			3.394	25.944	16.138	-20.056	46.000	9.806	AV
11			27.154	38.433	28.399	-21.567	60.000	10.034	QP
12			27.154	32.019	21.985	-17.981	50.000	10.034	AV

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: NS-SR2	Test date:2021/12/23
Temperature:22.8C	Humidity:61%
Limit: FCC_Part15.207_CE_AC Power	Engineer: Flag Yang
Probe: ENV216_102493_9KHz~150KHz-C	Polarity: Neutral
EUT: Active Speaker	Power: AC 120V/60Hz
Test Mode: Transmit by 3DH5 at channel 2480MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.155	45.866	36.095	-19.861	65.727	9.770	QP
2			0.155	32.194	22.424	-23.533	55.727	9.770	AV
3			0.486	45.114	35.441	-11.122	56.236	9.673	QP
4		*	0.486	37.599	27.926	-8.636	46.236	9.673	AV
5			0.842	35.643	25.945	-20.357	56.000	9.698	QP
6			0.842	27.845	18.147	-18.155	46.000	9.698	AV
7			1.570	35.227	25.502	-20.773	56.000	9.725	QP
8			1.570	28.341	18.617	-17.659	46.000	9.725	AV
9			11.522	32.451	22.582	-27.549	60.000	9.869	QP
10			11.522	26.991	17.122	-23.009	50.000	9.869	AV
11			26.670	38.623	28.633	-21.377	60.000	9.990	QP
12			26.670	32.269	22.279	-17.731	50.000	9.990	AV

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Appendix A - Test Setup Photograph

Refer to “2111RSU101-UT” file.

Appendix B - EUT Photograph

Refer to “2111RSU101-UE” file.