



RF MEASUREMENT REPORT

FCC ID: 2AQ8LPPA1
Applicant: Parsyl
Product: Parsyl Passport
Model No.: PPA1
Brand Name: Parsyl
FCC Classification: Digital Transmission System (DTS)
FCC Rule Part(s): Part 15 Subpart C (Section 15.247)
Result: Complies
Test Date: 2022-04-17

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 (Suzhou) Co., Ltd.

Revision History


Report No.	Version	Description	Issue Date	Note
2203RSU047-U3	Rev. 01	Initial Report	2022-07-31	Valid

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1.4. Product Information

Product Name	Parsyl Passport
Model No.	PPA1
IMEI	864200052679751; 864200052648236
GSM Specification	GSM850, PCS1900
Cat M Specification	Band 2, 4, 5, 12, 13, 25, 26, 66
NB-IoT Specification	Band 2, 4, 5, 12, 13, 25, 66, 71
Wi-Fi Specification	802.11b/g/n
Bluetooth Specification	v5.0 single mode for BLE only
Antenna Information	Refer to section 1.6
Operating Temperature	-30°C ~ +55°C
Accessories	
AC/DC Adapter	Model: MKE-1202000DEXD Input: 100-240V ~ 50/60Hz, 0.8A Output: 12.0V  2A, 24W
Integrated License Modular Information	
Manufacturer	Quectel Wireless Solutions Co., Ltd
FCC ID	XMR201910BG95M3
Model No.	BG95-M3
Integrated Wi-Fi Modular Information	
Manufacturer	ESPRESSIF SYSTEMS (SHANGHAI) PTE LTD
FCC ID	2AC7Z-ESPWROOM32
Model No.	ESP-WROOM-32
Remark:	
<ol style="list-style-type: none"> The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. This report is based on the modular certification FCC ID “2AC7Z-ESPWROOM32” to evaluate the spot check with radiated spurious emissions, output power test items. 	

1.5. Radio Specification

Frequency Range	802.11b/g/n-HT20: 2412 ~ 2462MHz 802.11n-HT40: 2422 ~ 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

1.6. Antennas Details

Radio Spec.	Antenna Type	Frequency Band (MHz)	Antenna Gain (dBi)
2.4G Wi-Fi	PCB Antenna	2400 ~ 2483.5	2
Bluetooth	Dipole Antenna	2400 ~ 2483.5	2.5
CAT M / NB-IoT Band 2/25	Dipole Antenna	1850 ~ 1915	2.8
CAT M / NB-IoT Band 4/66	Dipole Antenna	1710 ~ 1780	0.4
CAT M / NB-IoT / GSM Band 5	Dipole Antenna	824 ~ 849	-0.2
CAT M Band 26	Dipole Antenna	814 ~ 849	-0.2
CAT M / NB-IoT Band 12	Dipole Antenna	699 ~ 716	-4.5
CAT M / NB-IoT Band 13	Dipole Antenna	746 ~ 756	-4.5
NB-IoT Band 71	Dipole Antenna	617 ~ 652	-4.5

1.7. 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	--	--	--	--

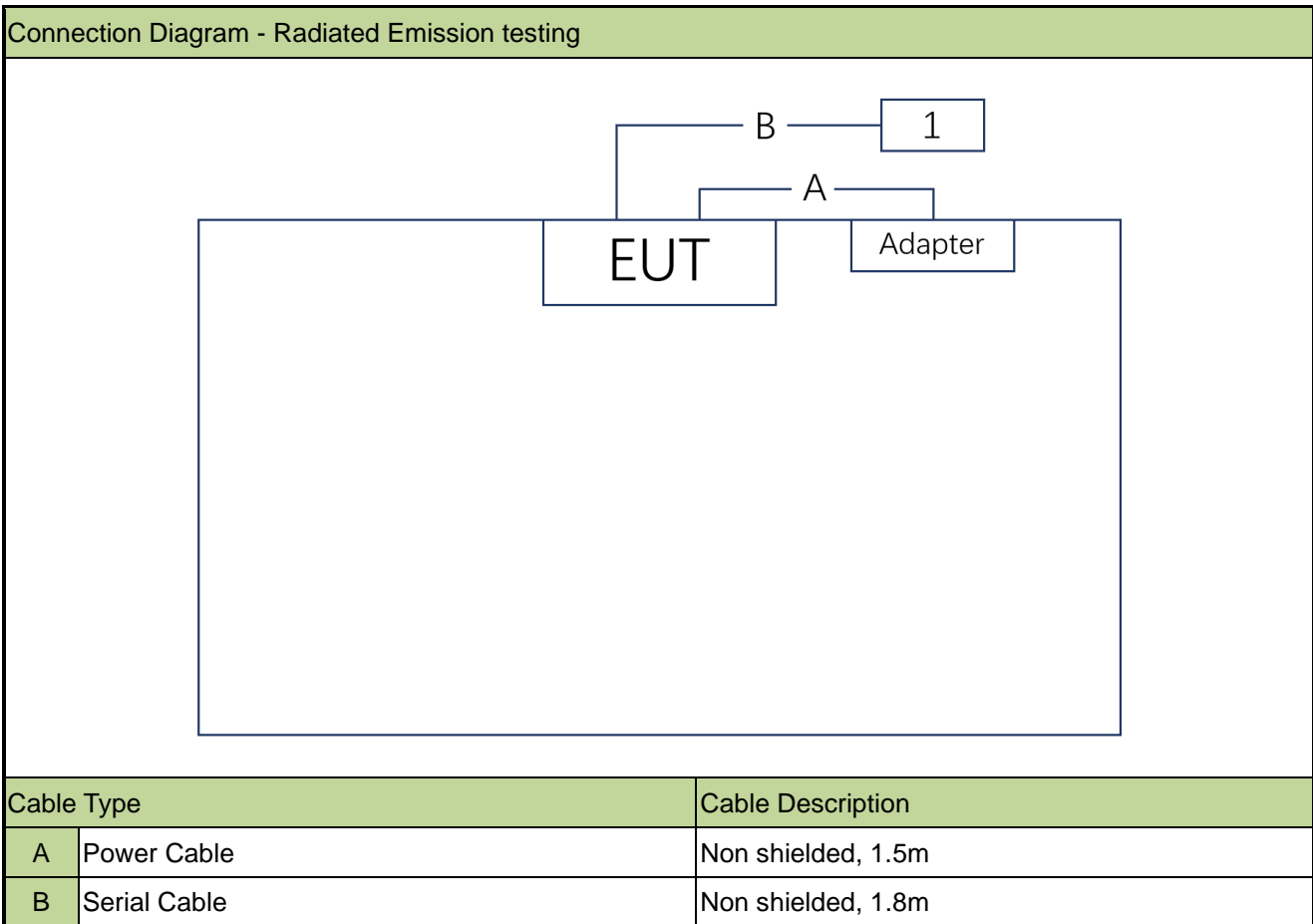
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by 802.11b (1Mbps)
Mode 2: Transmit by 802.11n-HT40 (MCS0)

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.



2.3. Test System Details

Product	Manufacturer	Model No.
1 Notebook	AVITA	CN6H14T

2.4. Test Software

The test utility software used during testing was “EspRFTestTool” and the version was “v2.8”.

2.5. 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

2.6. 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

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2022/12/29	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2022/9/16	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2022/11/12	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2022/8/5	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2022/4/29	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE06403	1 year	2022/6/28	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
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2022/10/28	WZ-AC1
Horn Antenna	ETS	3117	MRTSUE06257	1 year	2022/9/25	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2022/12/1	WZ-AC1
USB Power Sensor	Keysight	U2021XA	MRTSUE06582	1 year	2022-08-08	WZ-SR5
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2022-06-05	WZ-SR5
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2023-06-06	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11071	1 year	2023-06-09	WZ

Software	Version	Function
EMI Software	V3.0.0	EMI Test Software

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 $k = 2$.

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
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.13dB

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(b)(3)	Output Power	Conducted	Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass

Remark:

1. For radiated emission tests, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

6.2. Output Power Measurement

6.2.1. 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.

6.2.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.9.1.2 & 11.9.2.2.2

6.2.3. Test Setting

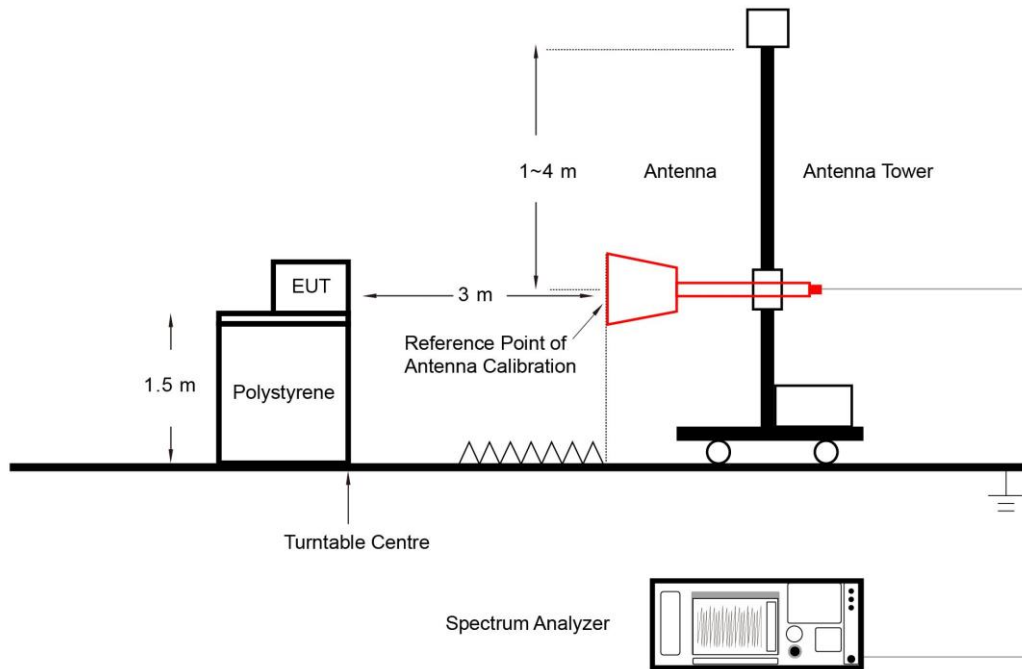
Peak Power Measurement

1. Analyzer center frequency was set to the frequency of the output power of interest
2. Set the RBW = 1MHz
3. Set the VBW $\geq 3 \times$ RBW
4. Set the span $\geq 1.5 \times$ DTS bandwidth
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize
9. Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

Average Power Measurement

1. Analyzer center frequency was set to the frequency of the output power of interest
2. Set span to at least 1.5 times the OBW
3. Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz
4. Set VBW $\geq 3 \cdot \text{RBW}$
5. Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto
7. Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode
8. If transmit duty cycle $< 98\%$, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
9. Trace average at least 100 traces in power averaging (rms) mode
10. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.2.

6.3. Radiated Spurious Emission Measurement

6.3.1. 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

6.3.2. Test Procedure

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)

6.3.3. 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

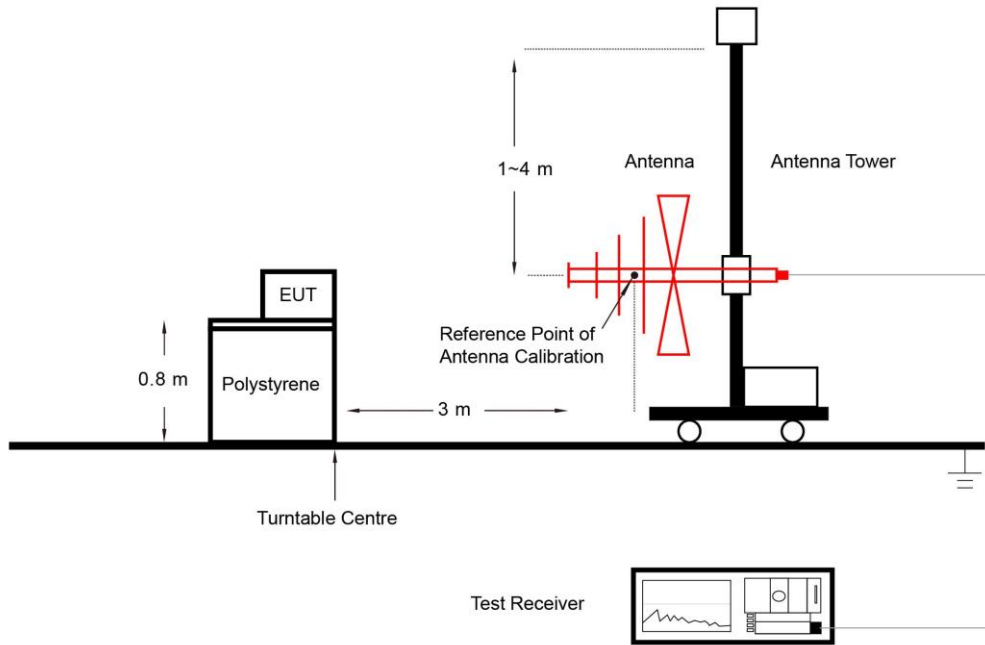
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

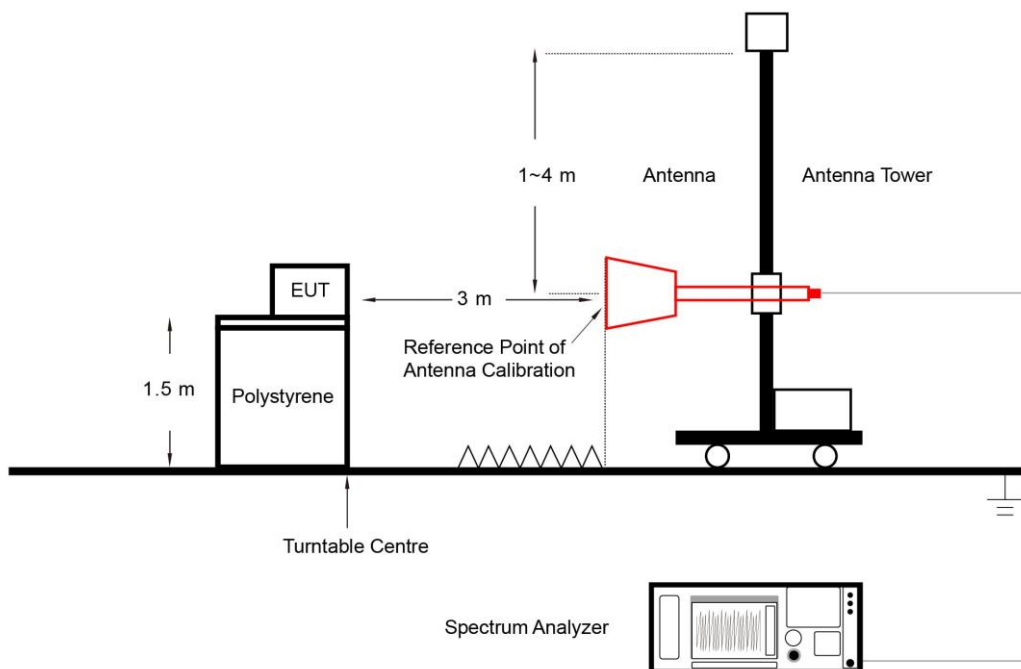
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4.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

6.3.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Radiated Restricted Band Edge Measurement

6.4.1. 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

6.4.2. Test Procedure

ANSI C63.10-2013 Section 6.3 & 6.6 & 11.13

6.4.3. Test Setting

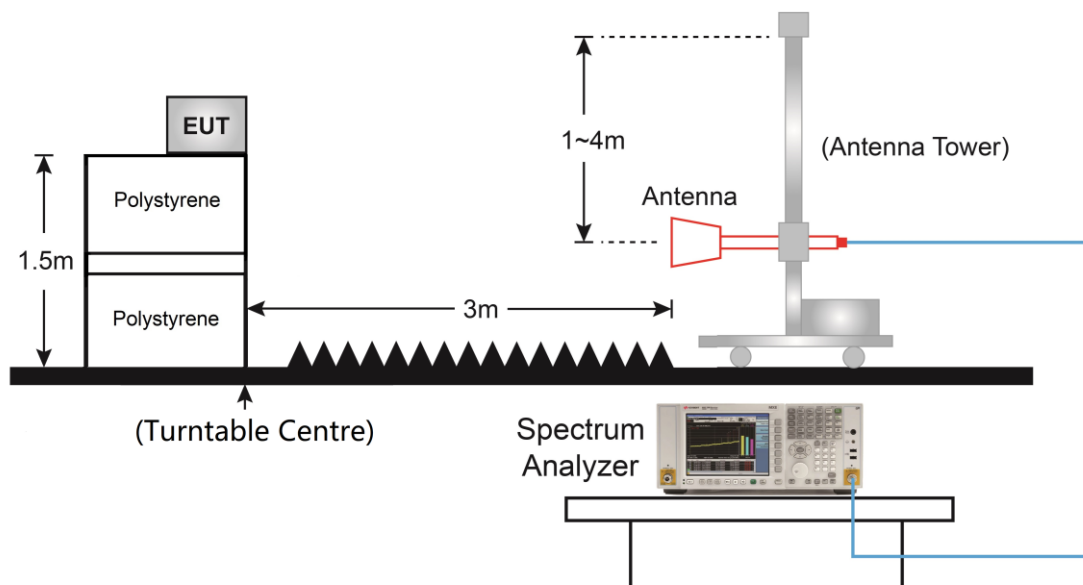
Peak Field Strength Measurements

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

6.4.4. Test Setup



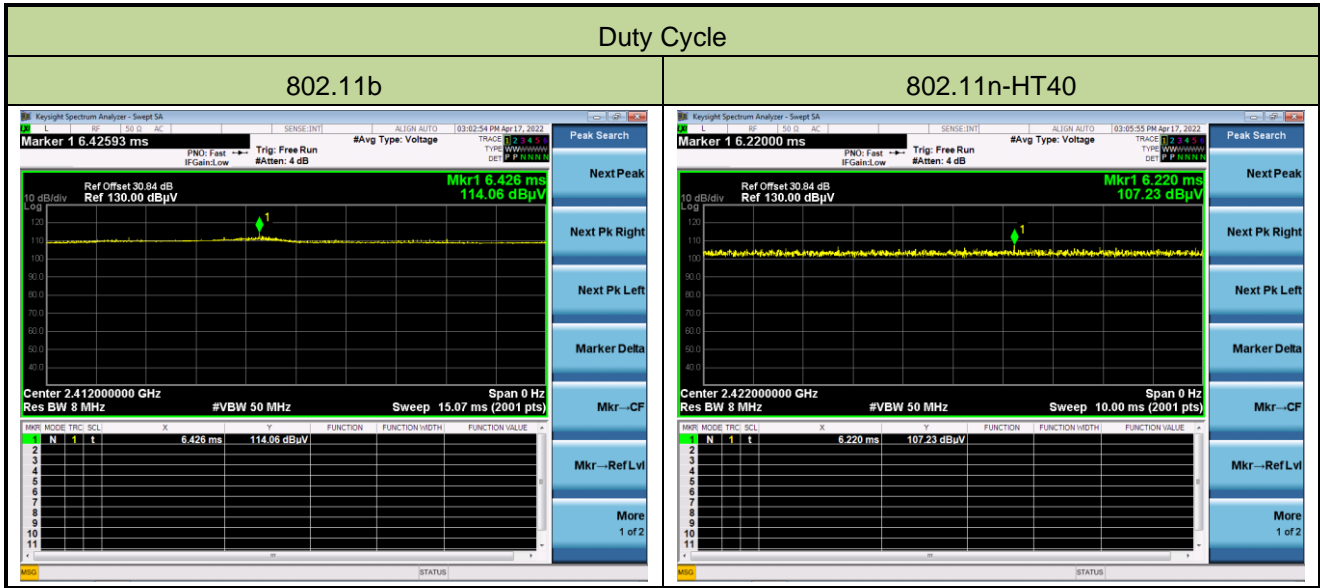
6.4.5. Test Result

Refer to Appendix A.4.

Appendix A – Test Result

A.1 Duty Cycle Test Result

Test Mode	Duty Cycle
802.11b	100%
802.11n-HT40	100%



A.2 Output Power Test Result

Test Site	WZ-AC1	Test Engineer	Hyde Yu
Test Date	2022/04/17		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	Peak EIRP (dBm)	Limit (dBm)
11b	1Mbps	01	2412	21.7	≤ 30.00
11b	1Mbps	06	2437	21.4	≤ 30.00
11b	1Mbps	11	2462	21.5	≤ 30.00
11n-HT40	MCS0	03	2422	20.9	≤ 30.00
11n-HT40	MCS0	06	2437	20.3	≤ 30.00
11n-HT40	MCS0	09	2452	20.0	≤ 30.00

A.3 Radiated Spurious Emission Test Result

Test Site	WZ-AC1	Test Engineer	Hyde Yu
Test Date	2022/04/17	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	4085.5	38.0	1.6	39.6	74.0	-34.4	Peak	Horizontal
	4825.0	42.5	3.7	46.2	74.0	-27.8	Peak	Horizontal
	7400.5	37.2	8.9	46.1	74.0	-27.9	Peak	Horizontal
	4272.5	39.9	2.2	42.1	74.0	-31.9	Peak	Vertical
	4825.0	41.5	3.7	45.2	74.0	-28.8	Peak	Vertical
	7451.5	37.1	8.9	46.0	74.0	-28.0	Peak	Vertical
06	4255.5	39.3	2.1	41.4	74.0	-32.6	Peak	Horizontal
	4876.0	39.8	3.9	43.7	74.0	-30.3	Peak	Horizontal
	7511.0	38.1	8.7	46.8	74.0	-27.2	Peak	Horizontal
	4264.0	38.3	2.1	40.4	74.0	-33.6	Peak	Vertical
	4876.0	40.5	3.9	44.4	74.0	-29.6	Peak	Vertical
	7332.5	37.4	8.9	46.3	74.0	-27.7	Peak	Vertical
11	4153.5	38.4	1.7	40.1	74.0	-33.9	Peak	Horizontal
	4927.0	39.7	4.0	43.7	74.0	-30.3	Peak	Horizontal
	7502.5	38.4	8.8	47.2	74.0	-26.8	Peak	Horizontal
	4272.5	38.7	2.2	40.9	74.0	-33.1	Peak	Vertical
	4927.0	42.8	4.0	46.8	74.0	-27.2	Peak	Vertical
	7638.5	37.2	8.6	45.8	74.0	-28.2	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-AC1	Test Engineer	Hyde Yu
Test Date	2022/04/17	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.		

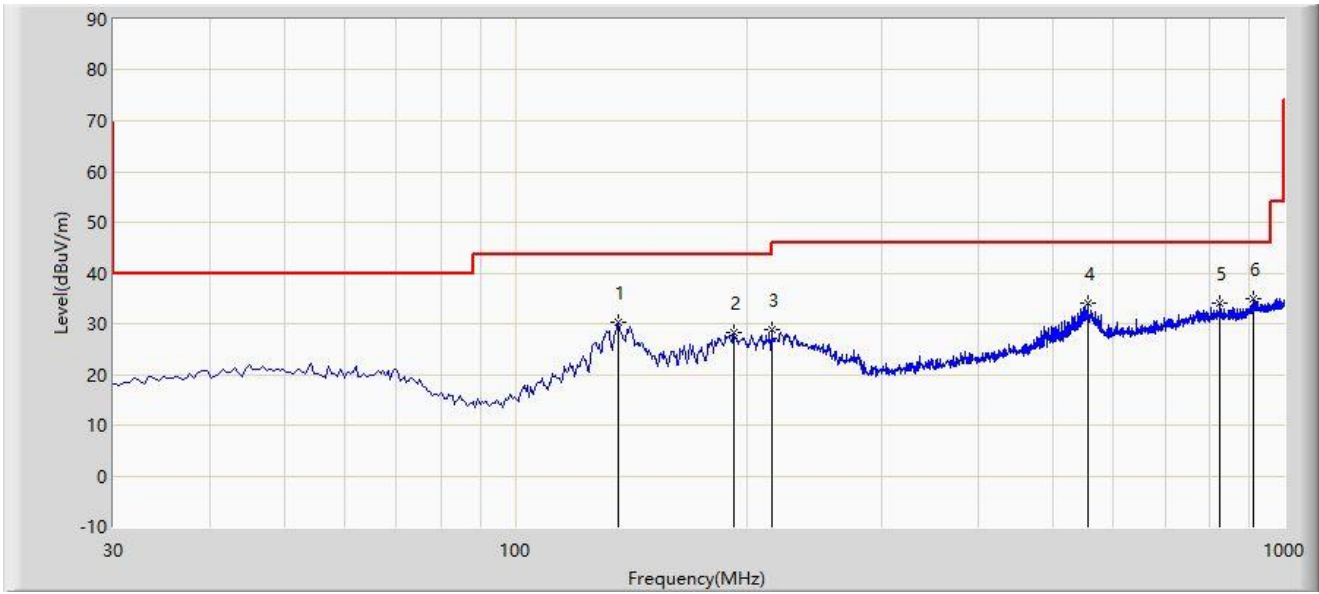
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
03	3890.0	38.3	1.1	39.4	74.0	-34.6	Peak	Horizontal
	4850.5	38.4	3.8	42.2	74.0	-31.8	Peak	Horizontal
	7434.5	37.6	8.8	46.4	74.0	-27.6	Peak	Horizontal
	4255.5	41.4	2.1	43.5	74.0	-30.5	Peak	Vertical
	4782.5	38.9	3.6	42.5	74.0	-31.5	Peak	Vertical
	7409.0	37.8	8.8	46.6	74.0	-27.4	Peak	Vertical
06	4009.0	37.8	1.4	39.2	74.0	-34.8	Peak	Horizontal
	5020.5	36.5	4.4	40.9	74.0	-33.1	Peak	Horizontal
	7409.0	37.0	8.8	45.8	74.0	-28.2	Peak	Horizontal
	4255.5	40.2	2.1	42.3	74.0	-31.7	Peak	Vertical
	4782.5	40.2	3.6	43.8	74.0	-30.2	Peak	Vertical
	7502.5	37.8	8.8	46.6	74.0	-27.4	Peak	Vertical
09	4102.5	37.7	1.7	39.4	74.0	-34.6	Peak	Horizontal
	4876.0	37.3	3.9	41.2	74.0	-32.8	Peak	Horizontal
	7375.0	36.4	9.0	45.4	74.0	-28.6	Peak	Horizontal
	4094.0	37.4	1.6	39.0	74.0	-35.0	Peak	Vertical
	4774.0	37.5	3.6	41.1	74.0	-32.9	Peak	Vertical
	7638.5	37.3	8.6	45.9	74.0	-28.1	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)

Radiated Spurious Emission below 1GHz:

Site: WZ-AC1	Time: 2022/04/17 - 15:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1			136.215	30.300	13.240	-13.200	43.500	17.060	PK
2			192.475	28.347	13.625	-15.153	43.500	14.722	PK
3			215.270	28.713	14.262	-14.787	43.500	14.451	PK
4			555.255	34.118	10.080	-11.882	46.000	24.038	PK
5			826.370	33.933	4.964	-12.067	46.000	28.969	PK
6		*	910.275	34.796	5.059	-11.204	46.000	29.737	PK

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

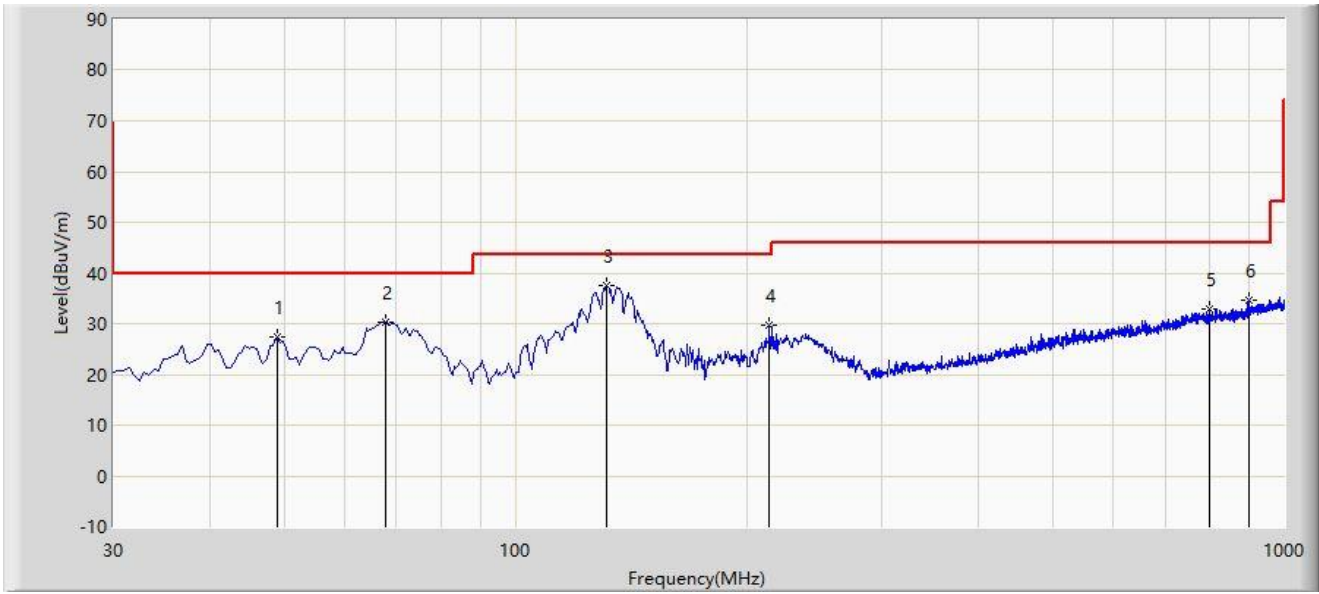
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

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	Time: 2022/04/17 - 15:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1			48.915	27.288	8.594	-12.712	40.000	18.694	PK
2			67.830	30.234	13.878	-9.766	40.000	16.356	PK
3		*	131.365	37.514	21.031	-5.986	43.500	16.483	PK
4			213.815	29.783	15.357	-13.717	43.500	14.426	PK
5			798.725	32.847	4.256	-13.153	46.000	28.592	PK
6			899.605	34.744	5.177	-11.256	46.000	29.567	PK

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

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

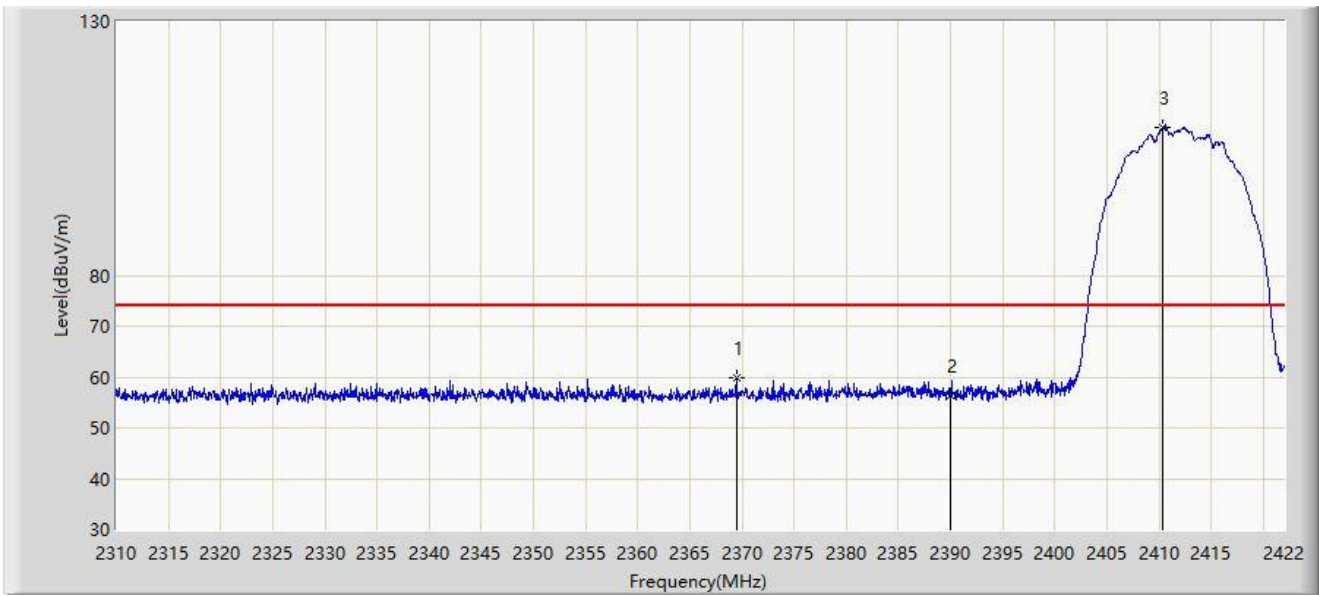
Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

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.4 Radiated Restricted Band Edge Test Result

Site: WZ-AC1	Time: 2022/04/17 - 13:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz	

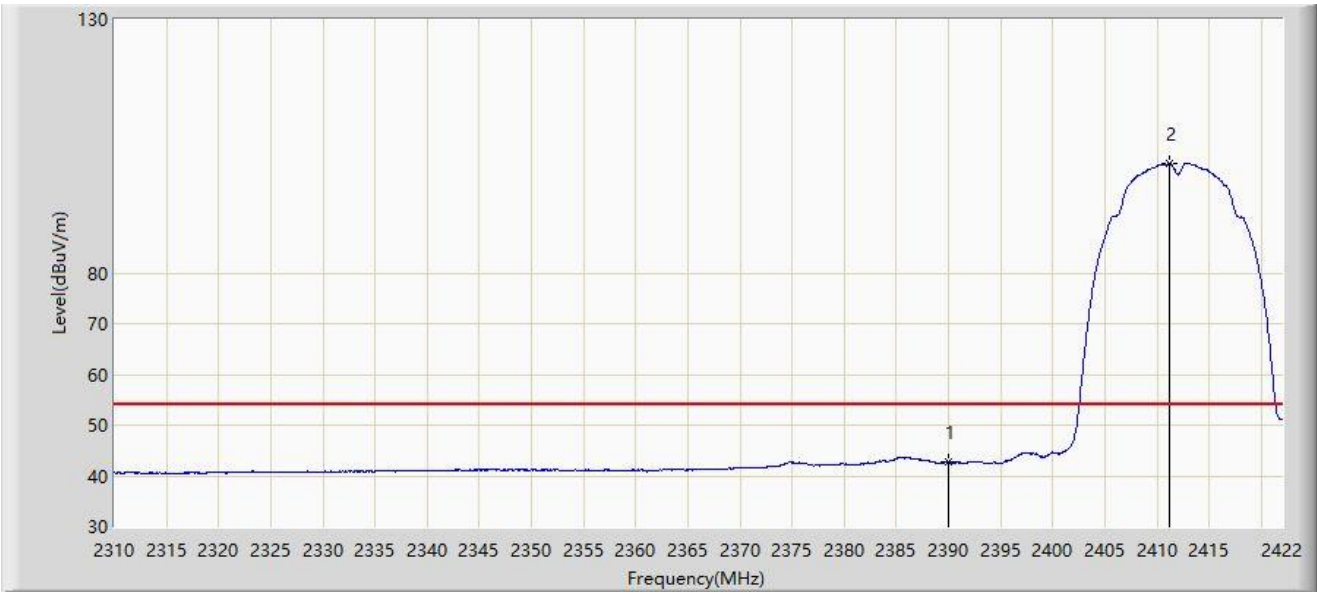


No	Flag	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1			2369.472	59.847	29.057	-14.153	74.000	30.790	PK
2			2390.000	56.488	25.672	-17.512	74.000	30.816	PK
3		*	2410.352	109.124	78.289	N/A	N/A	30.836	PK

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz	

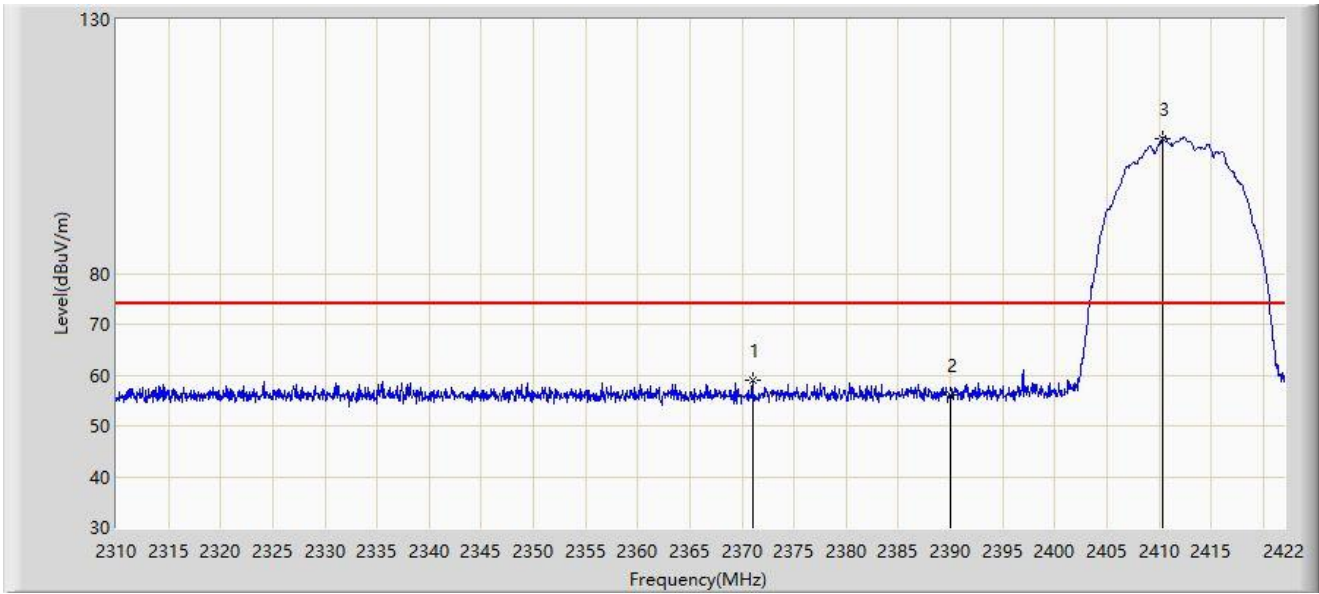


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2390.000	42.740	11.924	-11.260	54.000	30.816	AV
2		*	2411.192	101.589	70.754	N/A	N/A	30.835	AV

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz	

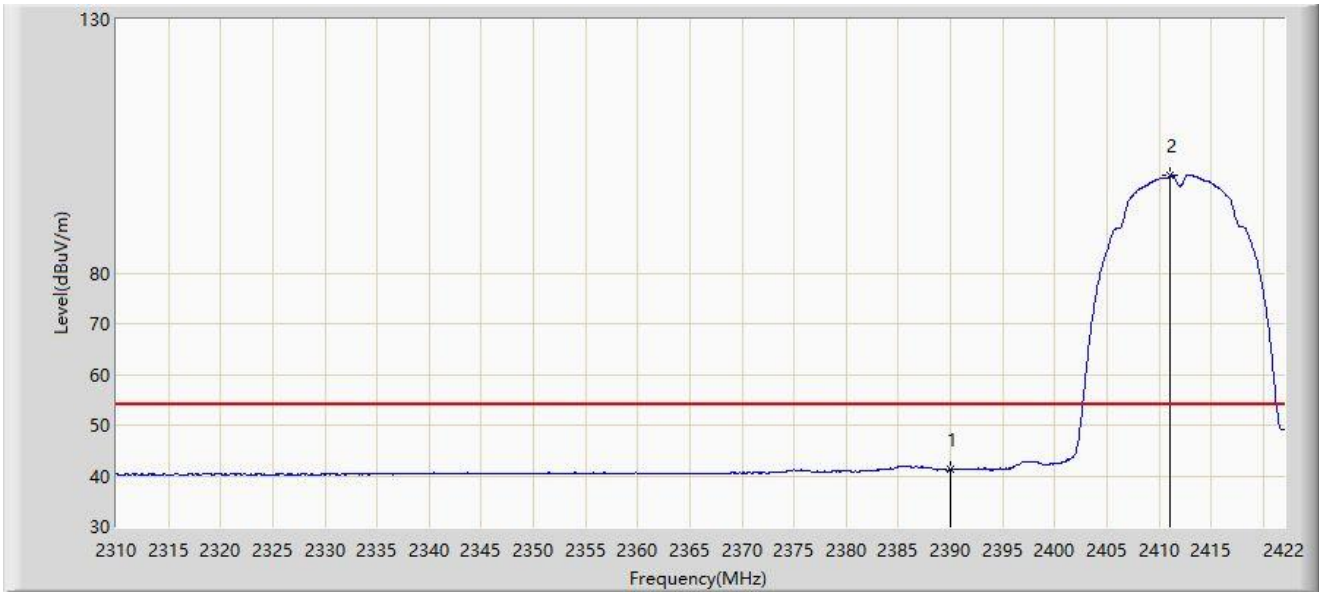


No	Flag	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1			2370.984	59.017	28.225	-14.983	74.000	30.792	PK
2			2390.000	56.091	25.275	-17.909	74.000	30.816	PK
3		*	2410.352	106.587	75.752	N/A	N/A	30.836	PK

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz	

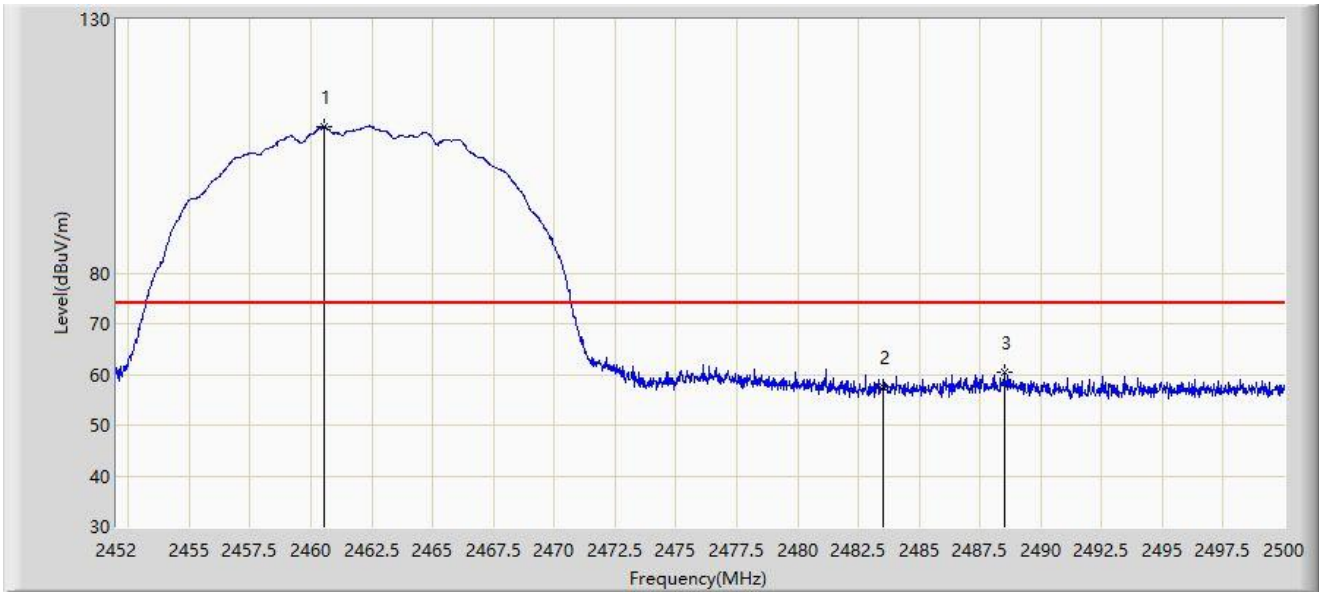


No	Flag	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1			2390.000	41.404	10.588	-12.596	54.000	30.816	AV
2		*	2411.080	99.131	68.296	N/A	N/A	30.835	AV

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2462MHz	

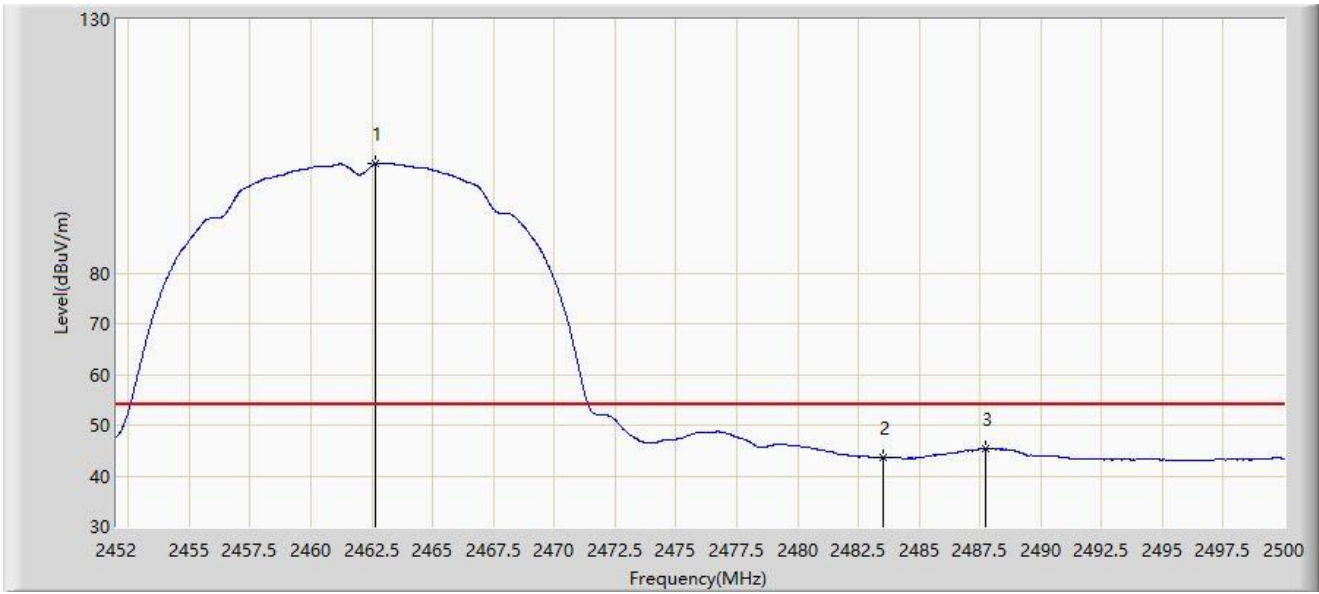


No	Flag	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		*	2460.520	108.749	77.794	N/A	N/A	30.955	PK
2			2483.500	57.401	26.380	-16.599	74.000	31.021	PK
3			2488.504	60.543	29.501	-13.457	74.000	31.042	PK

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2462MHz	

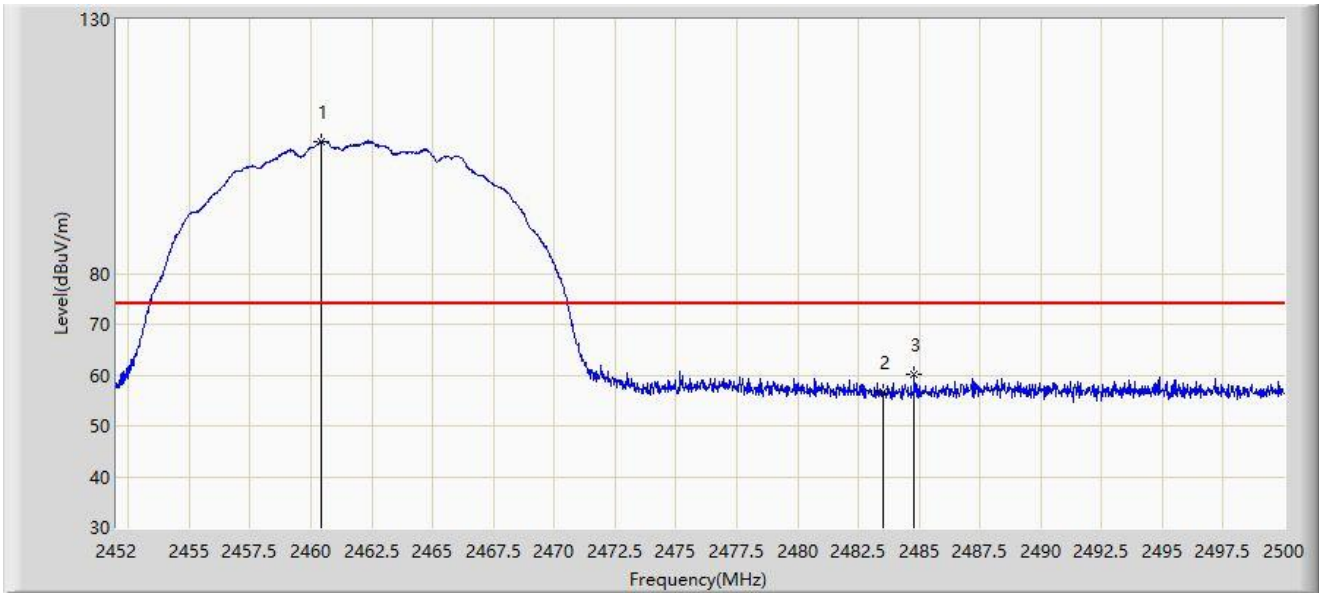


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2462.656	101.595	70.636	N/A	N/A	30.959	AV
2			2483.500	43.607	12.586	-10.393	54.000	31.021	AV
3			2487.736	45.401	14.362	-8.599	54.000	31.039	AV

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2460.400	105.974	75.019	N/A	N/A	30.955	PK
2			2483.500	56.574	25.553	-17.426	74.000	31.021	PK
3			2484.808	60.178	29.152	-13.822	74.000	31.027	PK

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2462MHz	

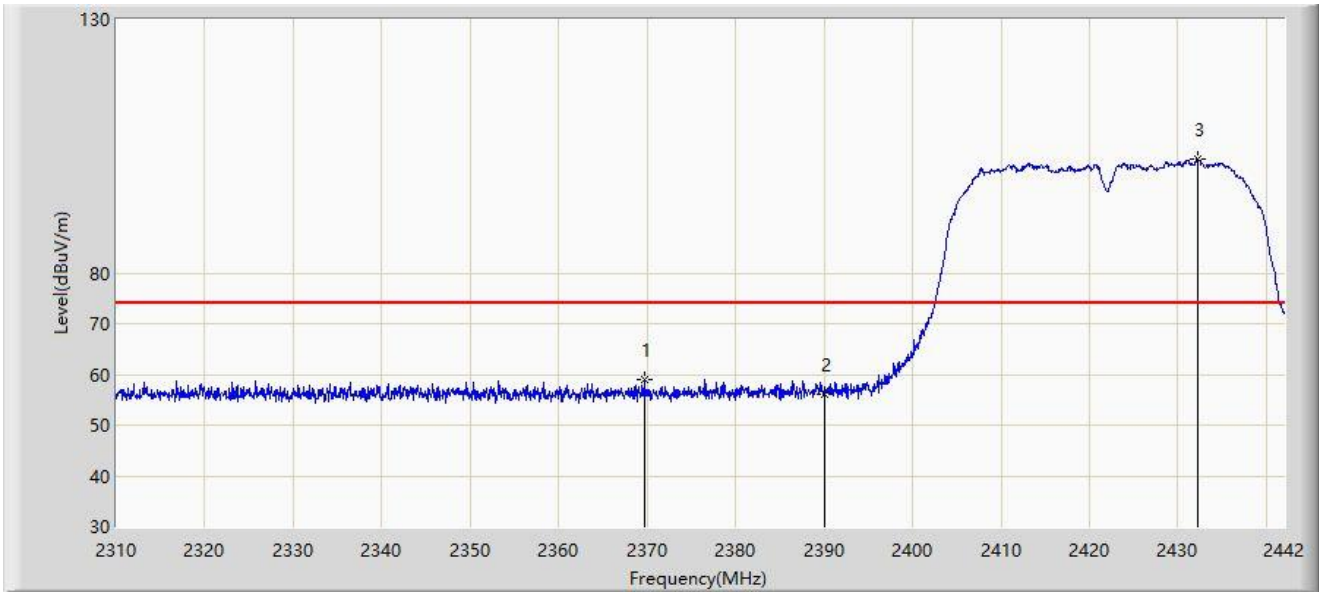


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2461.048	98.187	67.231	N/A	N/A	30.956	AV
2			2483.500	41.952	10.931	-12.048	54.000	31.021	AV
3			2487.808	43.283	12.244	-10.717	54.000	31.039	AV

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:46
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	

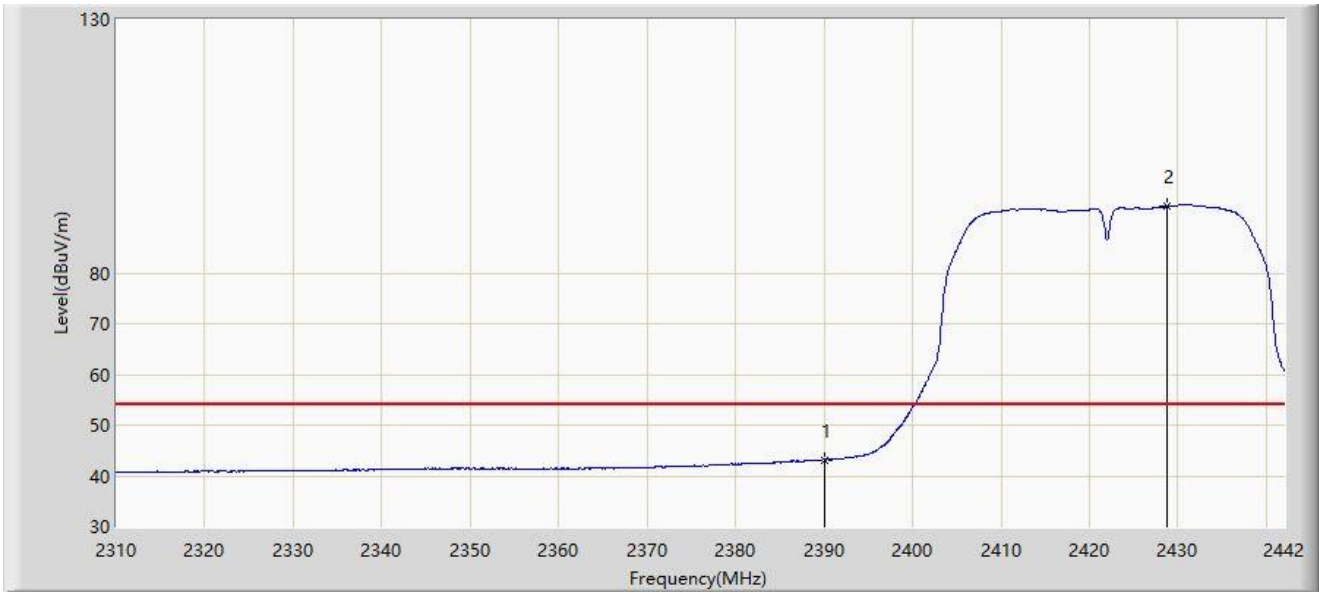


No	Flag	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1			2369.664	59.091	28.301	-14.909	74.000	30.790	PK
2			2390.000	56.085	25.269	-17.915	74.000	30.816	PK
3		*	2432.166	102.520	71.646	N/A	N/A	30.874	PK

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	

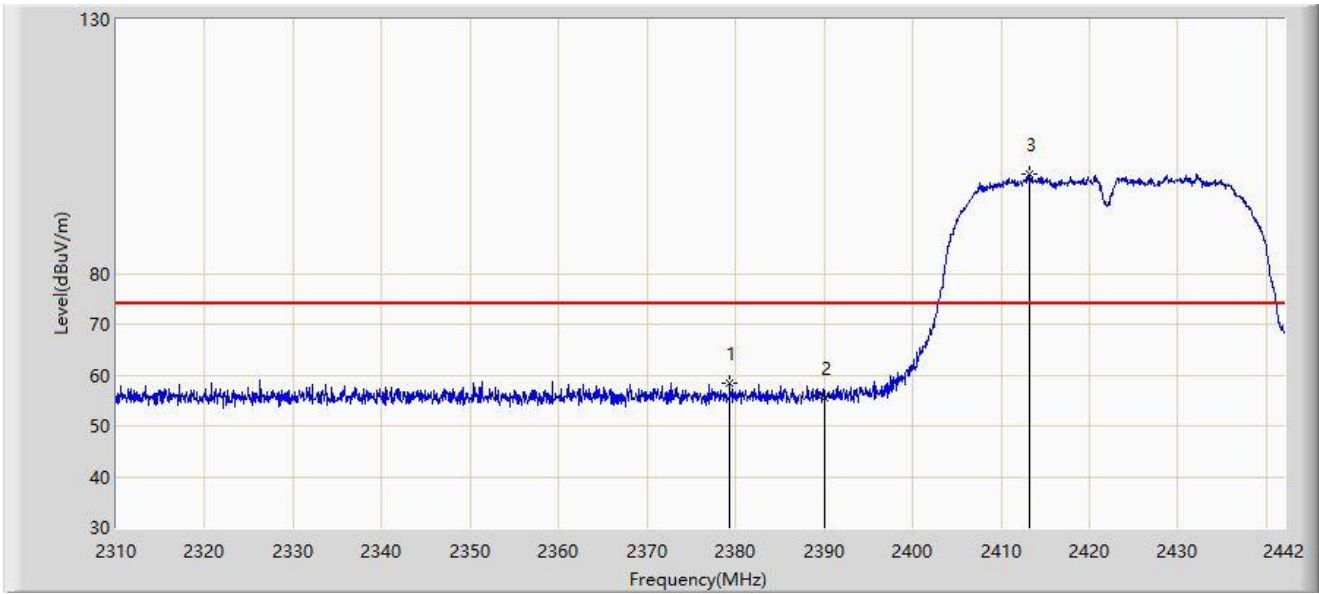


No	Flag	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1			2390.000	43.180	12.364	-10.820	54.000	30.816	AV
2		*	2428.800	93.204	62.343	N/A	N/A	30.862	AV

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	

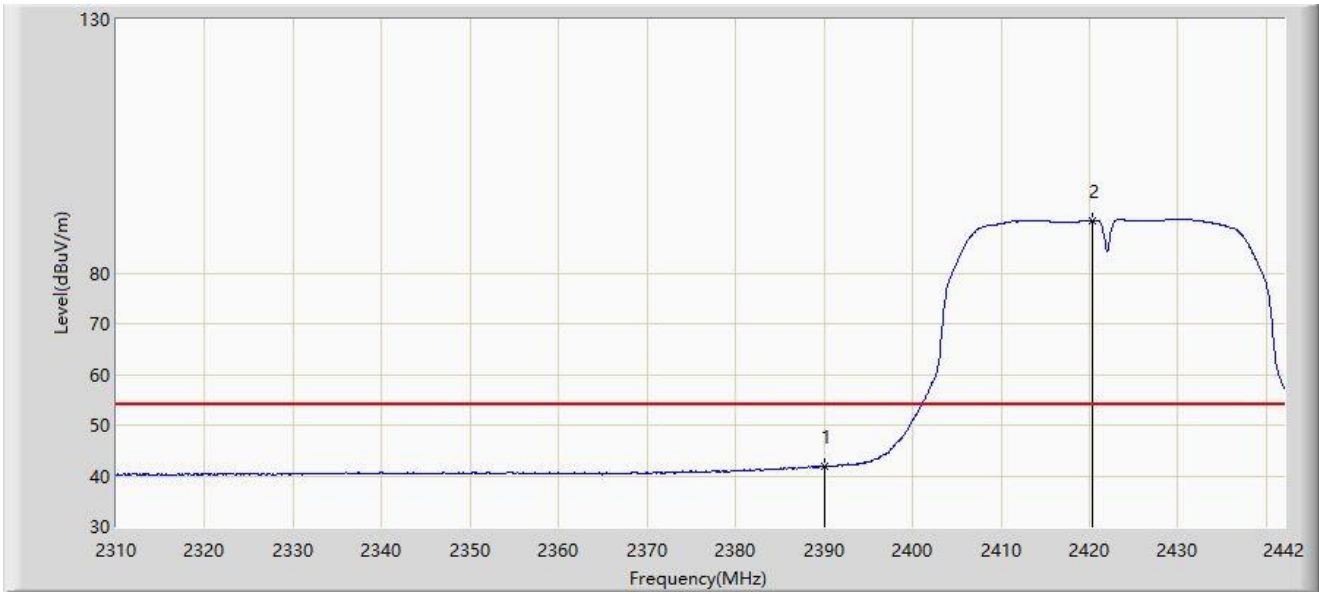


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			2379.300	58.293	27.489	-15.707	74.000	30.804	PK
2			2390.000	55.564	24.748	-18.436	74.000	30.816	PK
3		*	2413.158	99.432	68.597	N/A	N/A	30.835	PK

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	

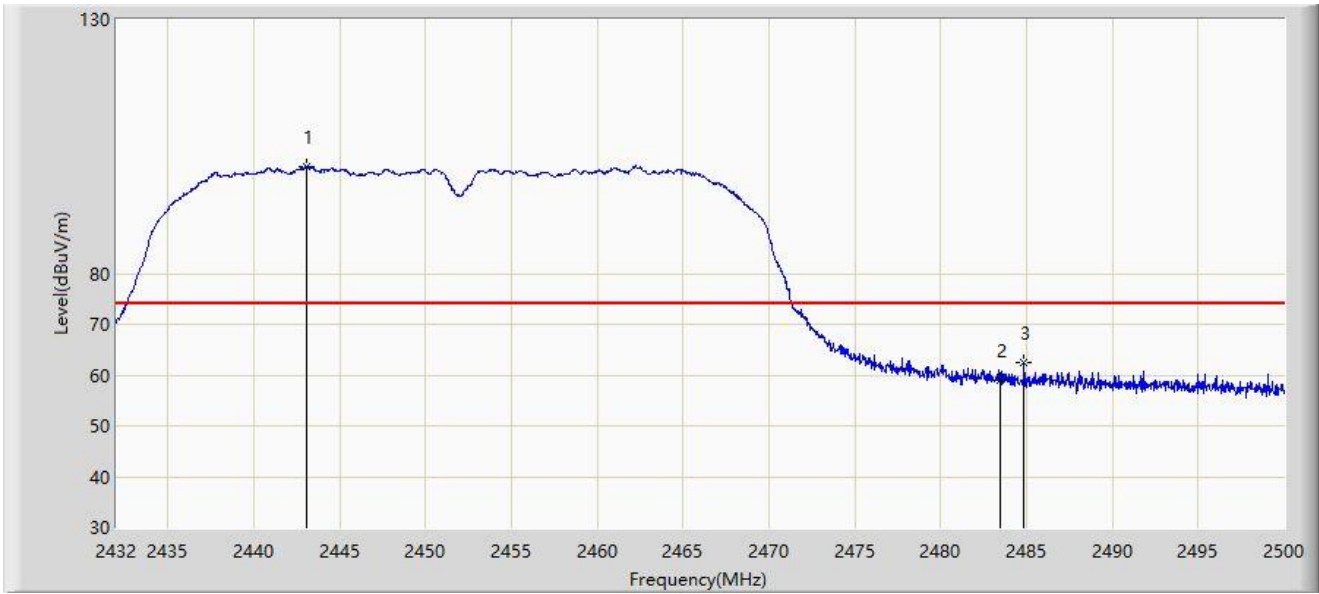


No	Flag	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1			2390.000	41.909	11.093	-12.091	54.000	30.816	AV
2		*	2420.286	90.406	59.571	N/A	N/A	30.835	AV

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

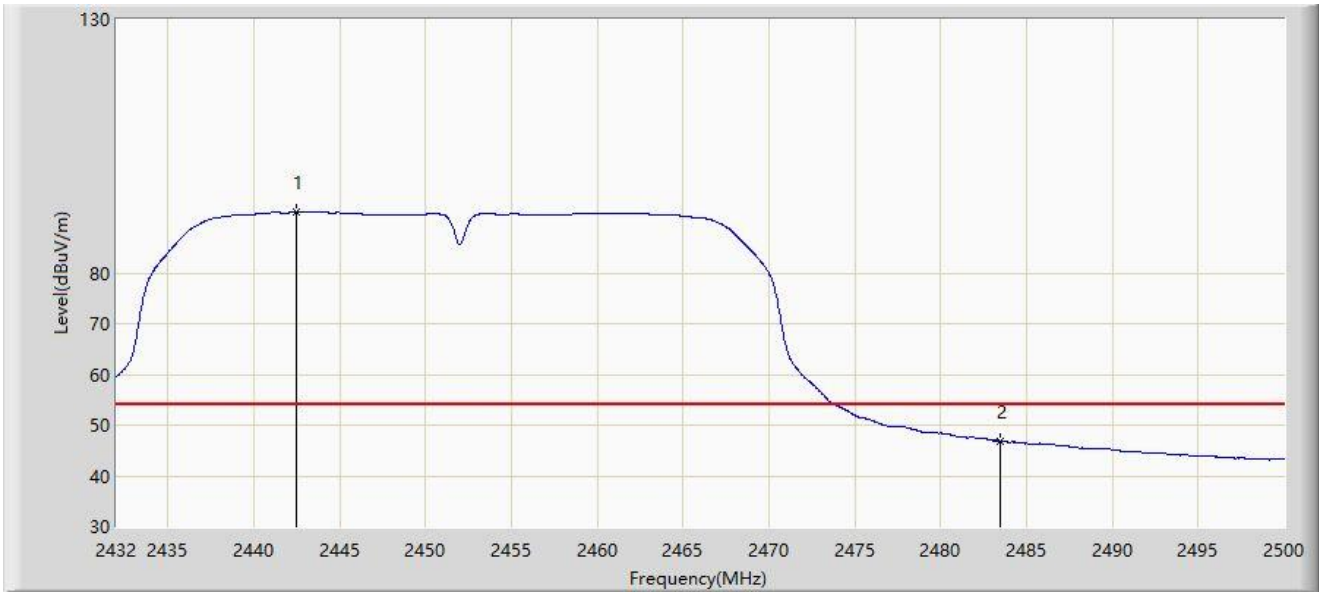


No	Flag	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		*	2443.050	100.995	70.084	N/A	N/A	30.910	PK
2			2483.500	59.078	28.057	-14.922	74.000	31.021	PK
3			2484.870	62.485	31.458	-11.515	74.000	31.027	PK

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:56
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

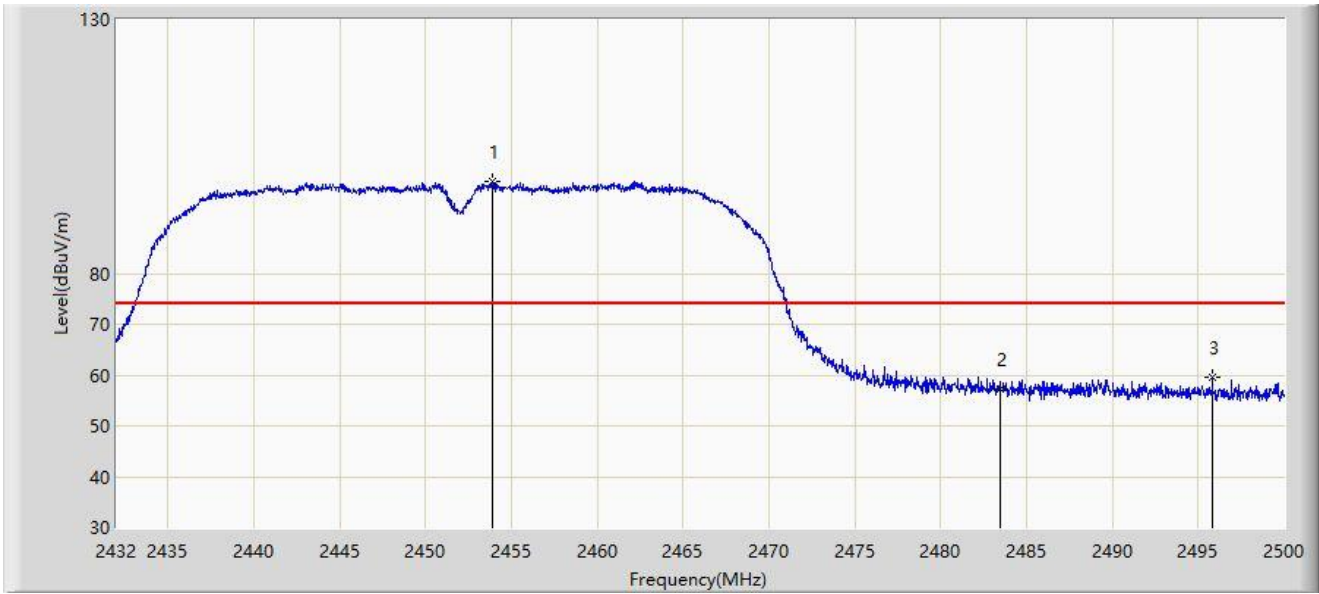


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2442.506	91.957	61.048	N/A	N/A	30.909	AV
2			2483.500	46.857	15.836	-7.143	54.000	31.021	AV

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

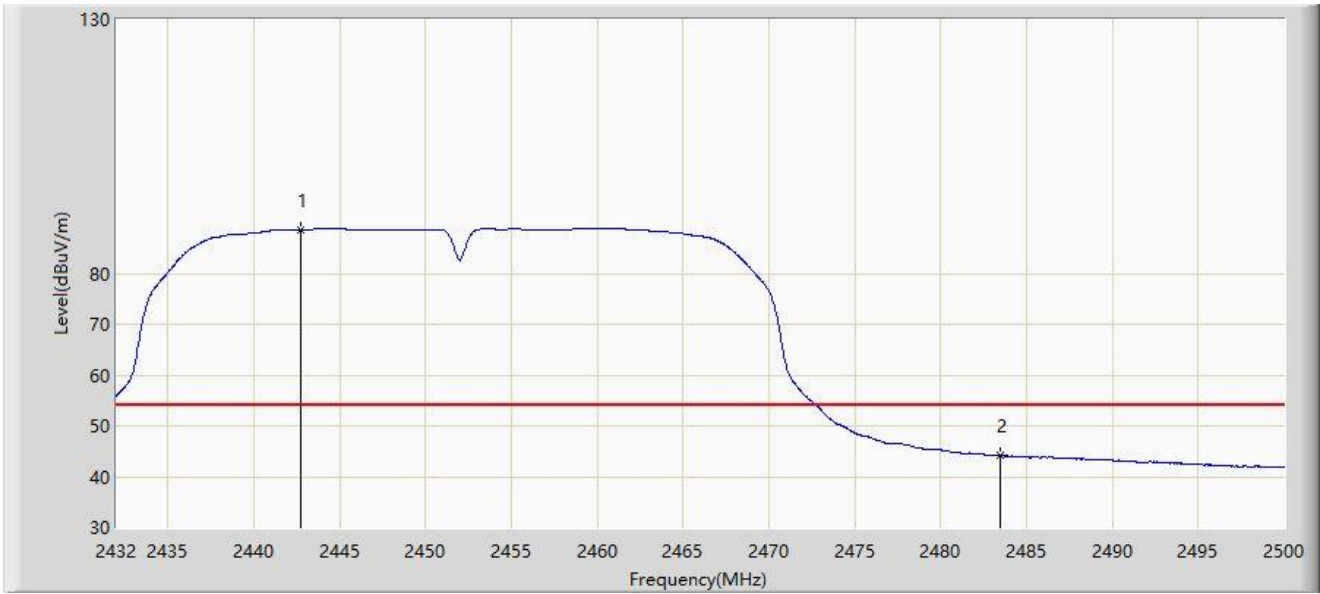


No	Flag	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		*	2453.930	97.986	67.044	N/A	N/A	30.942	PK
2			2483.500	57.251	26.230	-16.749	74.000	31.021	PK
3			2495.818	59.434	28.367	-14.566	74.000	31.068	PK

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

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

Site: WZ-AC1	Time: 2022/04/17 - 13:58
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Parsyl Passport	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		*	2442.710	88.642	57.732	N/A	N/A	30.910	AV
2			2483.500	44.087	13.066	-9.913	54.000	31.021	AV

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

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

Appendix B – Test Setup Photograph

Refer to “2203RSU047-UT” file.

Appendix C – EUT Photograph

Refer to “2203RSU047-UE” file.

————— The End —————