





TEST REPORT

Applicant Name: Address: Report Number: FCC ID: YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD. No.666 Hu'an Rd. Huli District Xiamen City, Fujian, P.R. China 2401Z42777E-RF-00A T2C-RPPE2

Test Standard (s)

FCC PART 15.407

Sample Description

Product Type: Model No.: Multiple Model(s) No.: Trade Mark: Room Scheduling Panel RoomPanel Plus E2 N/A



Date Received: Issue Date:

 Test Result:
 Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

wills.yu

Wills Yu RF Engineer

Approved By:

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Note: The information marked[#] is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2401Z42777E-RF-00A	Original Report	2025-03-21

ENERAL INFORMATION

Frequency Range	5150-5250MHz; 5250-5350MHz; 5470-5725MHz; 5725-5850MHz	
Mode	802.11a/n20/n40/ac20/ac40/ac80	
Maximum Conducted Average Output Power	5150-5250MHz: 13.70dBm; 5250-5350MHz: 14.11dBm 5470-5725MHz: 13.51dBm; 5725-5850MHz: 13.23dBm	
Modulation Technique	OFDM	
Antenna Specification [#]	3.47dBi (provided by the applicant)	
Voltage Range	DC 12V from adapter or DC 48V from POE	
Sample serial number	2V6V-3 for Conducted and Radiated Emissions Test 2V6V-1 for RF Conducted Test (Assigned by BACL, Shenzhen)	
Sample/EUT Status	Good condition	
Adapter Information	Manufacturer: Shenzhen JingQuanHua & Everrise Intelligent Electric Co., Ltd. Model:YLPS121250C1-US Input: AC 100-240V, 50/60Hz 0.5A Output: DC 12.0, 1.25A 15.0W	
Note: The EUT powered by adapter or POE, the worst case power supply (POE) was selected to test for AC		

Product Description for Equipment under Test (EUT)

Note: The EUT powered by adapter or POE, the worst case power supply (POE) was selected to test for AC line conducted and radiated emission below 1GHz according to 2.4G Wi-Fi report test result.

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB789033 D02 General U-NII Test Procedures New Rules v02r01.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		r	Uncertainty
Occupied	Occupied Channel Bandwidth		109.2kHz(k=2, 95% level of confidence)
RI	F Frequen	cy	56.6Hz(k=2, 95% level of confidence)
RF outpu	t power, c	onducted	0.86dB(k=2, 95% level of confidence)
Power	Spectral I	Density	0.90dB(k=2, 95% level of confidence)
Unwanted	Emission,	conducted	1.60dB(k=2, 95% level of confidence)
AC Power Lines Cond	ucted	9kHz-150kHz	3.63dB(k=2, 95% level of confidence)
Emissions		150kHz-30MHz	3.66dB(k=2, 95% level of confidence)
	9kHz - 30MHz		3.60dB(k=2, 95% level of confidence)
	30MH	z~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30M	Hz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)
Radiated Emissions	200MH	z~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)
Radiated Emissions	200M	Hz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
		1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
		6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz		5.64dB(k=2, 95% level of confidence)
Т	Temperature		±1 °C
Humidity			$\pm 1\%$
Supply voltages		ges	$\pm 0.4\%$

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For 5150-5250MHz Band, 7 channels are provided to testing:

For 802.11a/ac20 mode: channel 36, 40, 48 were tested;

For 802.11ac40 mode: channel 38, 46 were tested;

For 802.11ac80 mode, channel 42 was tested.

For 5250-5350MHz Band, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	
52	5260	60	5300	
54	5270	62	5310	
56	5280	64	5320	
58	5290	/	/	

For 802.11aac20 mode: channel 52, 56, 64 were tested; For 802.11ac40 mode: channel 54, 62 were tested;

For 802.11ac80 mode, channel 58 was tested.

For 5470-5725MHz Band, 15 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	132	5660
102	5510	134	5670
104	5520	136	5680
106	5530	138	5690
108	5540	140	5700
110	5550	142	5710
112	5560	144	5720
116	5580	/	/

For 802.11a/ac20 mode: channel 100, 116, 140, 144 were tested; For 802.11ac40 mode: channel 102, 110, 134, 142 were tested; For 802.11ac80 mode: channel 106, 138 were tested.

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Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

For 5725-5850MHz Band, 8 channels are provided to testing:

For 802.11a/ac20 mode: channel 149, 157, 165 were tested;

For 802.11ac40 mode: channel 151, 159 were tested;

For 802.11ac80 mode, channel 155 was tested.

EUT Exercise Software

Exercise Software [#]	AuthenticationTool.exe		
5150-5250 MHz Band			
Mode	Test Channels	Data rate	Power Level [#]
	Low	6Mbps	15
802.11a	Middle	6Mbps	15
	High	6Mbps	15
	Low	MCS0	15
802.11ac-VHT20	Middle	MCS0	15
	High	MCS0	15
802.11ac-VHT40	Low	MCS0	15
802.11ac-VH140	High	MCS0	15
802.11ac-VHT80	Middle	MCS0	15
5250-5350 MHz Band			
Mode	Test Channels	Data rate	Power Level [#]
	Low	6Mbps	15
802.11a	Middle	6Mbps	15
	High	6Mbps	15
	Low	MCS0	15
802.11ac-VHT20	Middle	MCS0	15
	High	MCS0	15
202 11ac VIIT40	Low	MCS0	15
802.11ac-VHT40	High	MCS0	15
802.11ac-VHT80	Middle	MCS0	15

Mode	Test Channels	Data rate	Power Level [#]
	Low	6Mbps	14
902 11	Middle	6Mbps	14
802.11a	High	6Mbps	14
-	Cross	6Mbps	14
	Low	MCS0	14
902 11aa WUT20	Middle	MCS0	14
802.11ac-VHT20	High	MCS0	14
	Cross	MCS0	14
	Low	MCS0	14
802.11ac-VHT40	Middle	MCS0	14
802.11ac-VH140	High	MCS0	14
	Cross	MCS0	14
802.11ac-VHT80	Low	MCS0	14
802.11ac-v H180	Cross	MCS0	14
725-5850 MHz Band			
Mode	Test Channels	Data rate	Power Level [#]
	Low	6Mbps	14
802.11a	Middle	6Mbps	14
	High	6Mbps	14
	Low	MCS0	14
802.11ac-VHT20	Middle	MCS0	14
	High	MCS0	14
802.11ac-VHT40	Low	MCS0	14
602.11ac-VH140	High	MCS0	14
802.11ac-VHT80	Middle	MCS0	14

1. The worst-case data rates are determined to be as follows for each mode based upon inverstigation by measuring the average power and PSD across all data rates bandwidths, and modulations.

2. The n20/n40 mode was reduced test as identical parameter with ac20/ac40 mode.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Kingston	USB Disk	Unknown	Unknown
TPLINK	POE	TL-POE4824G	Unknown
Grandstream	Router	GWN7664	20VXSV2M7262C104

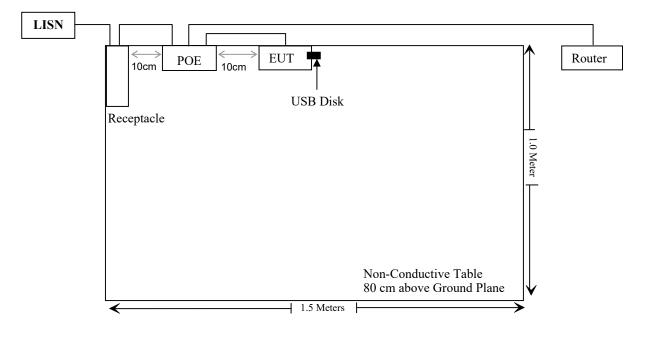
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External I/O Cable

Cable Description	Length (m)	From Port	То
Unshielded Un-detachable AC cable	1.8	Receptacle	LISN/AC Mains
Unshielded Detachable AC cable	0.5	Receptacle	POE
Unshielded Detachable RJ45 cable	0.5	EUT	POE
Unshielded Detachable RJ45 cable	1.5	EUT	POE
Unshielded Detachable RJ45 cable	8.0	Router	POE
Unshielded Un-detachable DC cable	2.0	EUT	Adapter

Block Diagram of Test Setup

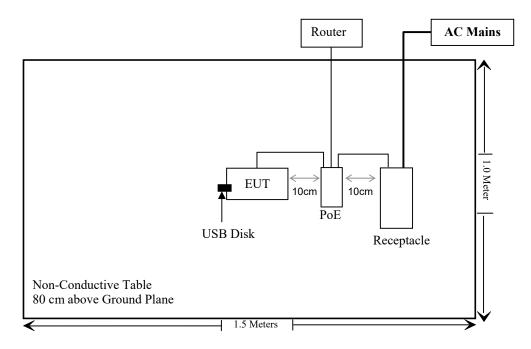
For Conducted Emissions:



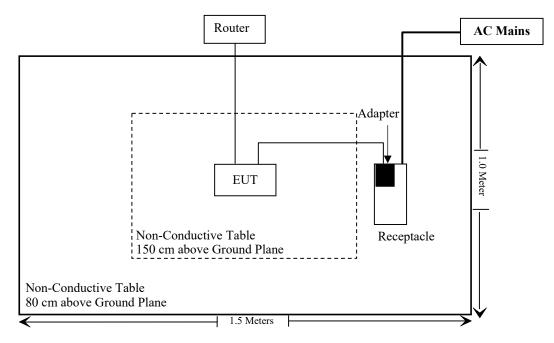
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For Radiated Emissions below 1GHz



For Radiated Emissions above1GHz



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.407(b)(9)& §15.207(a)	Conducted Emissions	Compliant
§15.205& §15.209 &§15.407(b)	Undesirable Emission& Restricted Bands	Compliant
§15.407(a) (e)	26 dB Emission Bandwidth & 6dB Bandwidth	Compliant
§15.407(a)	Conducted Transmitter Output Power	Compliant
§15.407 (a)	Power Spectral Density	Compliant
§15.407 (h)	Transmit Power Control (TPC)	Not Applicable
§15.407 (h)	Dynamic Frequency Selection (DFS)	Compliant*
C63.10 §11.6	Duty Cycle	/
§1.1307 (b) (3) & §2.1091	MPE-Based Exemption	Compliant

Compliant*: Please refer to the DFS report 2401Z42777E-RFE. Not Applicable: For 5250-5350MHz/5470-5725MHz, the maximum EIRP is 17.58dBm≤27dBm (500mW).

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	1	Conducted E	Emission Test		
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/12/04	2025/12/03
Rohde & Schwarz	LISN	ENV216	101613	2024/12/04	2025/12/03
Unknown	CE Cable	Unknown	UF A210B-1- 0720-504504	2024/05/21	2025/05/20
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2024/05/21	2025/05/20
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
		Radiated E	mission Test		
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310N	186238	2024/05/21	2025/05/20
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17
Unknown	Cable	Chamber Cable 1	F-03-EM236	2024/06/18	2025/06/17
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Cable	PNG214	1354	2024/12/04	2025/12/03
Unknown	Cable	2Y194	0735	2024/12/04	2025/12/03
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Rohde&Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26
A.H.System	Preamplifier	PAM-0118P	489	2024/11/15	2025/11/14
Schwarzbeck	Horn Antenna	BBHA9120D(12 01)	1143	2023/07/26	2026/07/25
Unknown	RF Cable	KMSE	0735	2024/12/06	2025/12/05
Unknown	RF Cable	UFA147	219661	2024/12/06	2025/12/05
JD	Filter Switch Unit	DT7220FSU	DS79906	2024/09/09	2025/09/08
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2024/09/09	2025/09/08
A.H.System	Pre-amplifier	PAM-1840VH	190	2024/06/18	2025/06/17
Electro- Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
UTIFLEX	RF Cable	NO. 13	232308-001	2024/12/18	2025/12/17
Audix	EMI Test software	E3	191218(V9)	NCR	NCR

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Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101942	2024/09/20	2025/09/19
ANRITSU	Microwave peak power sensor	MA24418A	12622	2024/05/21	2025/05/20
MARCONI	10dB Attenuator	6534/3	2942	2024/06/27	2025/06/26

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

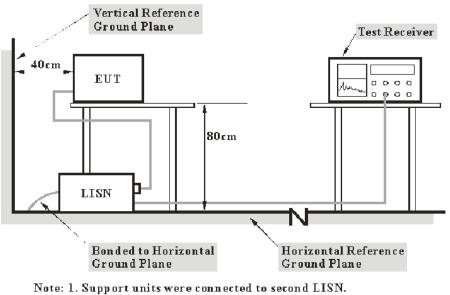
REQUIREMENTS AND TEST PROCEDURES

Conducted Emissions

Applicable Standard

FCC §15.207, §15.407(b) (9)

EUT Setup



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

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and Average detection mode.

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Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

Factor = LISN VDF + Cable Loss

The "**Over limit**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit Level = Read Level + Factor

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Undesirable Emission

Applicable Standard

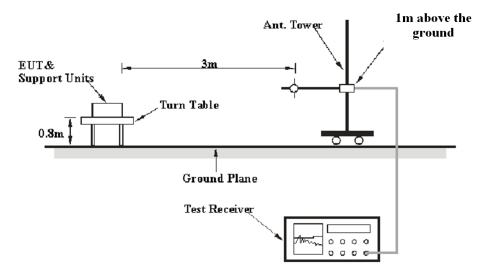
FCC §15.407 (b); §15.209; §15.205;

- (b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
- (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

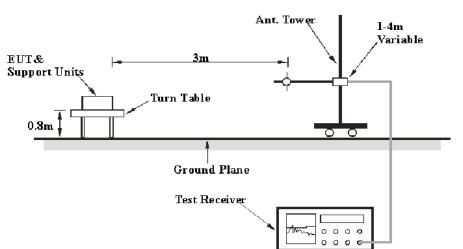
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

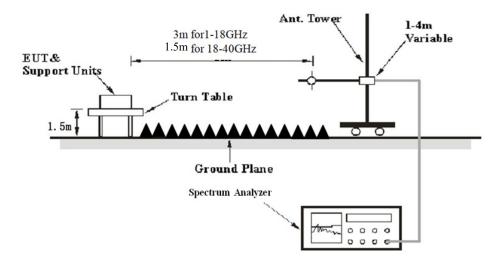
9 kHz-30MHz:



30MHz-1GHz:



Above 1 GHz:



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9 kHz-1GHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
9 kHz – 150 kHz	/	/	200 Hz	QP
9 кпz — 130 кпz	300 Hz	1 kHz	/	РК
150 kHz – 30 MHz	/	/	9 kHz	QP
130 KHZ – 30 MHZ	10 kHz	30 kHz	/	РК
30 MHz – 1000 MHz	/	/	120 kHz	QP
30 MITZ – 1000 MITZ	100 kHz	300 kHz	/	РК

1-40GHz:

Pre-scan

Measurement	Duty cycle	RBW	Video B/W
РК	Any	1MHz	3 MHz
417	>98%	1MHz	1 kHz
AV	<98%	1MHz	≥1/Ton

Final measurement for emission identified during pre-scan

Measurement	Duty cycle	RBW	Video B/W
РК	Any	1MHz	3 MHz
AV	>98%	1MHz	10 Hz
	<98%	1MHz	≥1/Ton

Note: Ton is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

Radiated Spurious Emission

During the radiated emission test, the adapter was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all the installation combinations.

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All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

According to ANSI C63.10-2013,9.4: For field strength measurements made at other than the distance at which the applicable limit is specified, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). In some cases, a different distance correction factor may be required;

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20\log\left(\frac{d_{\text{Meas}}}{d_{\text{SpecLimit}}}\right)$$

where

 ${\it E}_{SpecLimit}$ is the field strength of the emission at the distance specified by the limit, in $dB\mu V/m$

 E_{Meas} d_{Meas} $dB\mu V/m$ is the field strength of the emission at the measurement distance, in $dB\mu V/m$

is the measurement distance, in m

 $d_{\text{SpecLimit}}$ is the distance specified by the limit, in m

So the extrapolation factor of 1m is $20*\log(1/3) = -6.0$ dB, for 18-40GHz range, the limit of 1.5m distance was added by 6.0dB from limit of 3m to compared with the result measurement at 1.5m distance.

Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit; Margin = Limit–Corrected Amplitude Level / Corrected Amplitude = Read Level + Factor

26 dB & 6dB Emission Bandwidth

Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

According to KDB789033 D02 section II.C and section II.D

1. Emission Bandwidth (EBW)

a) Set RBW = approximately 1% of the emission bandwidth.

- b) Set the VBW > RBW.
- c) Detector = Peak.

d) Trace mode = max hold.

e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

a) Set RBW = 100 kHz.

b) Set the video bandwidth (VBW) \ge 3 × RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Sweep = auto couple.

f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3. 99% Occupied Bandwidth:

According to ANSI C63.10-2013 Section 12.4.2&6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

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c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

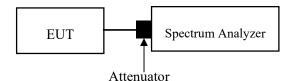
d) Step a) through step c) might require iteration to adjust within the specified range.

e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



Conducted Transmitter Output Power

Applicable Standard

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

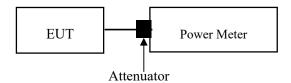
For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method PM-G should be applied

a. Place the EUT on a bench and set it in transmitting mode.

b. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

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Power Spectral Density

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Duty cycle ≥98%

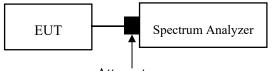
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle <98%, duty cycle variations are less than $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle <98%, duty cycle variations exceed $\pm2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.



Attenuator

Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

Duty Cycle

Test Procedure

According to ANSI C63.10-2013 Section 12.2

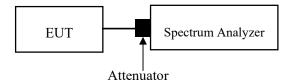
The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

1) Set the center frequency of the instrument to the center frequency of the transmission.

2) Set $RBW \ge OBW$ if possible; otherwise, set RBW to the largest available value.

3) Set VBW \geq RBW. Set detector = peak or average.

4) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \le 16.7 \ \mu s$.)



ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connector Construction

The EUT has an internal antenna arrangement, which was permanently attached, the antenna $gain^{\#}$ is 3.47dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant

TEST DATA AND RESULTS

Conducted Emissions

Temperature (°C)	27	Relative Humidity (%)	55			
ATM Pressure (kPa)	101	Test engineer	Macy Shi			
Test date	2025/1/14					
EUT operation mode	Transmitting (Maximum output power mode, 802.11a 5320MHz)					

AC 120V 60 Hz, Line POE

5

6

1

2 3

4

5

6

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26.609

27.157

MHz

0.398

4.454

32.90

31.01

Read

dBuV

9.51

10.47

Freq Level

9.451 15.53

14.138 18.95

53.75 10.65 10.20

51.83 10.62 10.20

dB

25.055 15.54 36.45 10.72 10.19 50.00 -13.55 Average 26.699 16.54 37.38 10.64 10.20 50.00 -12.62 Average

Level Factor

dBuV

LISN Cable Limit

Loss

dB

31.12 10.55 10.10 47.90 -16.78 Average

36.09 10.35 10.21 50.00 -13.91 Average

39.47 10.30 10.22 50.00 -10.53 Average

30.55 10.84 10.20 46.00 -15.45 Average

dBuV

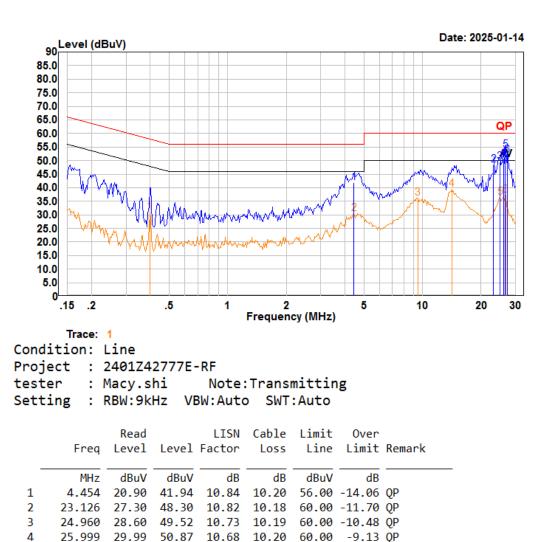
60.00 -6.25 QP

60.00 -8.17 QP

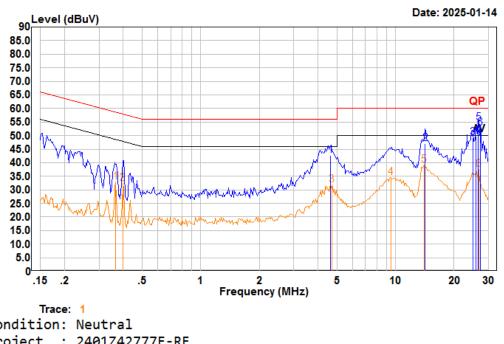
0ver

Line Limit Remark

dB



AC 120V 60 Hz, Neutral POE



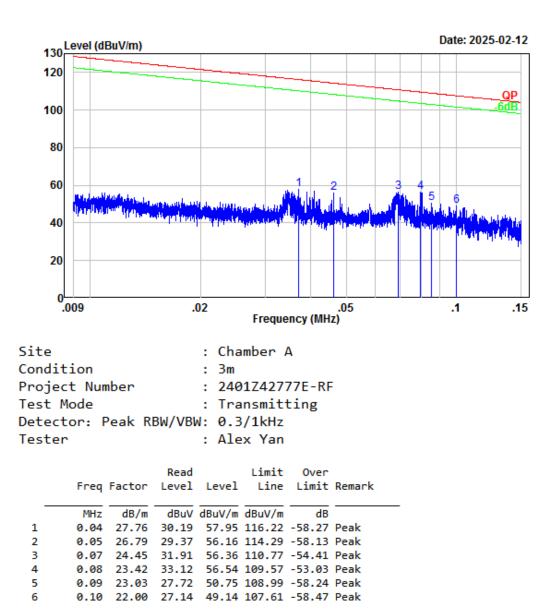
IIac	с.			
Condition	:	Neutral		
Project	:	2401Z4277	7E-RF	
tester	:	Macy.shi	Note:T	ransmitting
Setting	:	RBW:9kHz	VBW:Auto	SWT:Auto

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
-	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	4.647	21.50	42.58	10.89	10.19	56.00	-13.42	QP
2	14.221	26.59	47.14	10.33	10.22	60.00	-12.86	QP
3	24.897	28.20	49.27	10.88	10.19	60.00	-10.73	QP
4	25.995	28.70	49.74	10.84	10.20	60.00	-10.26	QP
5	26.608	33.70	54.72	10.82	10.20	60.00	-5.28	QP
6	27.158	31.80	52.80	10.80	10.20	60.00	-7.20	QP
		Read		LISN	Cable	Limit	0ver	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
-	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.365	12.07	32.78	10.60	10.11	48.61	-15.83	Average
2	0.398	11.66	32.34	10.58	10.10	47.90	-15.56	Average
3	4.696	10.76	31.84	10.89	10.19	46.00	-14.16	Average
4	9.451	13.94	34.67	10.52	10.21	50.00	-15.33	Average
5	13.989	18.48	39.03	10.33	10.22	50.00	-10.97	Average
6	26.699	16.59	37.60	10.81	10.20	50.00	-12.40	Average

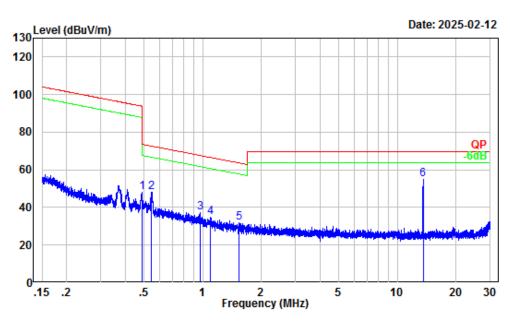
Undesirable Emission

Temperature (°C)	22.9-23.8	Relative Humidity (%)	63-65		
ATM Pressure (kPa):	101.3	Test engineer:	Alex Yan & Visen Wu		
Test date:	2025/1/10-2025/3/21				
EUT operation mode:	Below 1GHz: Transmitting (Maximum output power mode, 802.11a 5320MHz) Above 1GHz: Transmitting				
Note:	 For the radiated spurious emission below 30MHz, only the worst case (parallel) was recorded. When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded. After pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation were recorded. 				

Below 1GHz:



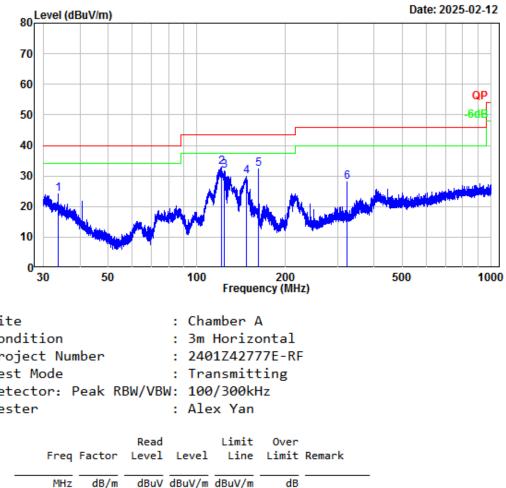
9kHz-150kHz



150kHz-30MHz

Site	:	Chamber A
Condition	:	3m
Project Number	:	2401Z42777E-RF
Test Mode	:	Transmitting
Detector: Peak	RBW/VBW:	10/30kHz
Tester	:	Alex Yan

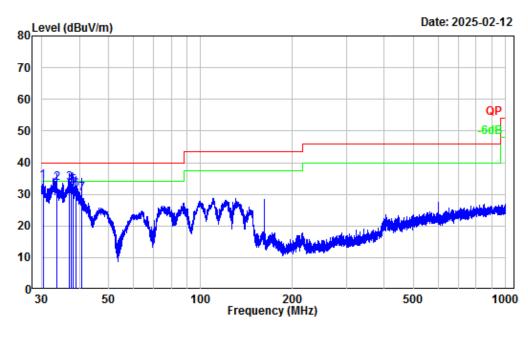
	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.49	6.64	41.31	47.95	93.84	-45.89	Peak
2	0.55	5.82	42.49	48.31	72.82	-24.51	Peak
3	0.97	1.40	36.04	37.44	67.72	-30.28	Peak
4	1.10	0.93	34.02	34.95	66.66	-31.71	Peak
5	1.54	-0.31	32.37	32.06	63.65	-31.59	Peak
6	13.56	-2.72	57.74	55.02	69.54	-14.52	Peak



30MHz-1GHz_Horizontal

Site	:	Chamber A
Condition	:	3m Horizontal
Project Number	:	2401Z42777E-RF
Test Mode	:	Transmitting
Detector: Peak	RBW/VBW:	100/300kHz
Tester	:	Alex Yan

			neau		CTULT C	0.001		
	Freq	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	33.74	-8.10	32.13	24.03	40.00	-15.97	Peak	
2	120.96	-11.35	44.29	32.94	43.50	-10.56	Peak	
3	124.13	-11.14	42.76	31.62	43.50	-11.88	Peak	
4	147.02	-12.27	42.17	29.90	43.50	-13.60	Peak	
5	161.97	-12.72	45.08	32.36	43.50	-11.14	Peak	
6	324.03	-10.70	38.85	28.15	46.00	-17.85	Peak	



30MHz-1GHz_Vertical

Site	:	Chamber A
Condition	:	3m Vertical
Project Number	:	2401Z42777E-RF
Test Mode	:	Transmitting
Detector: Peak	RBW/VBW:	100/300kHz
Tester	:	Alex Yan

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	30.40	-6.16	40.19	34.03	40.00	-5.97	QP
2	33.64	-8.04	41.60	33.56	40.00	-6.44	QP
3	37.11	-10.35	43.95	33.60	40.00	-6.40	QP
4	37.48	-10.61	43.90	33.29	40.00	-6.71	QP
5	38.06	-11.02	43.62	32.60	40.00	-7.40	QP
6	38.94	-11.64	43.11	31.47	40.00	-8.53	QP
7	40.68	-12.85	42.90	30.05	40.00	-9.95	QP

Above 1GHz: 5150-5250 MHz

Б	Reco	eiver	D 1	E é	Corrected	T • •	
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			802	2.11a			
			Low (Channel			
5150	73.52	РК	Н	-7.45	66.07	74	-7.93
5150	58.08	AV	Н	-7.45	50.63	54	-3.37
5150	67.24	РК	V	-7.45	59.79	74	-14.21
5150	54.34	AV	V	-7.45	46.89	54	-7.11
10360	52.09	РК	Н	2.53	54.62	68.2	-13.58
10360	52.4	РК	V	2.53	54.93	68.2	-13.27
			Middle	Channel			
10400	52.13	РК	Н	2.55	54.68	68.2	-13.52
10400	51.12	РК	V	2.55	53.67	68.2	-14.53
			High (Channel			
5350	63.45	РК	Н	-6.74	56.71	74	-17.29
5350	51.80	AV	Н	-6.74	45.06	54	-8.94
5350	63.78	РК	V	-6.74	57.04	74	-16.96
5350	51.83	AV	V	-6.74	45.09	54	-8.91
10480	49.19	РК	Н	2.25	51.44	68.2	-16.76
10480	49.69	РК	V	2.25	51.94	68.2	-16.26
			802.1	1ac20			
			Low (Channel			
5150	69.75	РК	Н	-7.45	62.3	74	-11.7
5150	57.96	AV	Н	-7.45	50.51	54	-3.49
5150	65.29	РК	V	-7.45	57.84	74	-16.16
5150	54.7	AV	V	-7.45	47.25	54	-6.75
10360	51.48	РК	Н	2.53	54.01	68.2	-14.19
10360	52.15	PK	V	2.53	54.68	68.2	-13.52
			Middle	Channel	<u>.</u>		
10400	52.26	PK	Н	2.55	54.81	68.2	-13.39
10400	51.73	PK	V	2.55	54.28	68.2	-13.92
			High (Channel			
5350	63.09	PK	Н	-6.74	56.35	74	-17.65
5350	51.76	AV	Н	-6.74	45.02	54	-8.98
5350	62.59	PK	V	-6.74	55.85	74	-18.15
5350	51.84	AV	V	-6.74	45.10	54	-8.90
10480	48.95	PK	Н	2.25	51.2	68.2	-17.00
10480	49.55	РК	V	2.25	51.8	68.2	-16.40

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Version 4.0

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Dayraca	Compliance	Laboratorics	oorp.	

Report No.: 2401Z42777E-RF-00A

_	Receiver				Corrected	- • •	
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
ł			802.1	1ac40			
			Low C	Channel			
5150	73.89	РК	Н	-7.45	66.44	74	-7.56
5150	57.78	AV	Н	-7.45	50.33	54	-3.67
5150	67.95	РК	V	-7.45	60.5	74	-13.5
5150	54.92	AV	V	-7.45	47.47	54	-6.53
10380	51.89	РК	Н	2.54	54.43	68.2	-13.77
10380	51.69	РК	V	2.54	54.23	68.2	-13.97
		·	High (Channel			
5350	63.16	РК	Н	-6.74	56.42	74	-17.58
5350	51.86	AV	Н	-6.74	45.12	54	-8.88
5350	62.63	РК	V	-6.74	55.89	74	-18.11
5350	51.80	AV	V	-6.74	45.06	54	-8.94
10460	50.64	РК	Н	2.32	52.96	68.2	-15.24
10460	49.13	РК	V	2.32	51.45	68.20	-16.75
		·	802.1	1ac80			
			Middle	Channel			
5150	70.54	РК	Н	-7.45	63.09	74	-10.91
5150	58.42	AV	Н	-7.45	50.97	54	-3.03
5150	66.37	РК	V	-7.45	58.92	74	-15.08
5150	54.89	AV	V	-7.45	47.44	54	-6.56
5350	62.66	РК	Н	-6.74	55.92	74	-18.08
5350	51.9	AV	Н	-6.74	45.16	54	-8.84
5350	63.41	РК	V	-6.74	56.67	74	-17.33
5350	51.78	AV	V	-6.74	45.04	54	-8.96
10420	50.89	РК	Н	2.48	53.37	68.2	-14.83
10420	50.17	РК	V	2.48	52.65	68.2	-15.55

Report No.: 2401Z42777E-RF-00A

5250-5350MHz

Б	Rece	eiver		E (Corrected	T • • •	
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			802	2.11a			
			Low (Channel			
5150	64.47	РК	Н	-7.45	57.02	74	-16.98
5150	53.19	AV	Н	-7.45	45.74	54	-8.26
5150	64.92	РК	V	-7.45	57.47	74	-16.53
5150	53.05	AV	V	-7.45	45.6	54	-8.40
10520	49.67	РК	Н	2.18	51.85	68.2	-16.35
10520	48.72	РК	V	2.18	50.9	68.2	-17.3
			Middle	Channel			
10560	51.07	РК	Н	2.18	53.25	68.2	-14.95
10560	51.51	РК	V	2.18	53.69	68.2	-14.51
			High (Channel			
5350	65.68	PK	Н	-6.74	58.94	74	-15.06
5350	55.44	AV	Н	-6.74	48.7	54	-5.30
5350	62.84	РК	V	-6.74	56.1	74	-17.9
5350	52.3	AV	V	-6.74	45.56	54	-8.44
10640	50.63	PK	Н	2.59	53.22	74.00	-20.78
10640	49.87	РК	V	2.59	52.46	74.00	-21.54
			802.1	1ac20			
			Low (Channel			
5150	64.7	РК	Н	-7.45	57.25	74	-16.75
5150	52.79	AV	Н	-7.45	45.34	54	-8.66
5150	63.88	PK	V	-7.45	56.43	74	-17.57
5150	53.76	AV	V	-7.45	46.31	54	-7.69
10520	49.6	РК	Н	2.18	51.78	68.2	-16.42
10520	49.32	РК	V	2.18	51.5	68.2	-16.70
			Middle	Channel			
10560	50.67	РК	Н	2.18	52.85	68.2	-15.35
10560	51.28	РК	V	2.18	53.46	68.2	-14.74
			High (Channel	+		
5350	63.37	РК	Н	-6.74	56.63	74	-17.37
5350	55.69	AV	Н	-6.74	48.95	54	-5.05
5350	63.68	РК	V	-6.74	56.94	74	-17.06
5350	53.39	AV	V	-6.74	46.65	54	-7.35
10640	50.87	РК	Н	2.59	53.46	74	-20.54
10640	50.69	РК	V	2.59	53.28	74	-20.72

TR-EM-RF015

Bay Area Compliance Laboratories Corp. (Shenzhen)

Report No.: 2401Z42777E-RF-00A

	Rece	eiver			Connected		
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			802.1	1ac40			
			Low C	Channel			
5150	65.12	РК	Н	-7.45	57.67	74	-16.33
5150	54.33	AV	Н	-7.45	46.88	54	-7.12
5150	63.88	PK	V	-7.45	56.43	74	-17.57
5150	53.12	AV	V	-7.45	45.67	54	-8.33
10540	50.99	РК	Н	2.18	53.17	68.2	-15.03
10540	49.54	РК	V	2.18	51.72	68.2	-16.48
			High C	Channel			
5350	76.81	РК	Н	-6.74	70.07	74	-3.93
5350	59.29	AV	Н	-6.74	52.55	54	-1.45
5350	63.82	РК	V	-6.74	57.08	74	-16.92
5350	54.87	AV	V	-6.74	48.13	54	-5.87
10620	51.07	РК	Н	2.37	53.44	74	-20.56
10620	50.31	РК	V	2.37	52.68	74	-21.32
			802.1	1ac80			
			Middle	Channel			
5150	63.82	РК	Н	-7.45	56.37	74	-17.63
5150	53.79	AV	Н	-7.45	46.34	54	-7.66
5150	63.91	РК	V	-7.45	56.46	74	-17.54
5150	53.36	AV	V	-7.45	45.91	54	-8.09
5350	69.17	PK	Н	-6.74	62.43	74	-11.57
5350	58.20	AV	Н	-6.74	51.46	54	-2.54
5350	68.75	РК	V	-6.74	62.01	74	-11.99
5350	57.29	AV	V	-6.74	50.55	54	-3.45
10580	51.4	РК	Н	2.18	53.58	68.2	-14.62
10580	52.02	РК	V	2.18	54.2	68.2	-14.00

5470-5725MHz

1	Rece	eiver			Corrected		
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			802	.11a			
			Low C	Channel			
5460	65.25	PK	Н	-6.29	58.96	74	-15.04
5460	53.27	AV	Н	-6.29	46.98	54	-7.02
5460	62.63	РК	V	-6.29	56.34	74	-17.66
5460	52.16	AV	V	-6.29	45.87	54	-8.13
5470	70.89	PK	Н	-6.26	64.63	68.2	-3.57
5470	64.00	РК	V	-6.26	57.74	68.2	-10.46
11000	45.6	РК	Н	4.29	49.89	74	-24.11
11000	45.33	РК	V	4.29	49.62	74	-24.38
			Middle	Channel			
11160	47.18	РК	Н	3.5	50.68	74	-23.32
11160	48.91	РК	V	3.5	52.41	74	-21.59
			High C	Channel			
5725	67.14	РК	Н	-5.49	61.65	68.2	-6.55
5725	64.29	РК	V	-5.49	58.8	68.2	-9.40
11400	48.5	РК	Н	3.32	51.82	74	-22.18
11400	49.01	РК	V	3.32	52.33	74	-21.67
			Cross (Channel			
11440	48.27	PK	Н	3.42	51.69	74	-22.31
11440	48.73	РК	V	3.42	52.15	74	-21.85

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	Receiver		Polar		Corrected		
Frequency (MHz)	Reading (dBµV)	PK/Ave	(H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			802.1	1ac20			
			Low C	Channel			
5460	62.26	PK	Н	-6.29	55.97	74	-18.03
5460	51.59	AV	Н	-6.29	45.3	54	-8.70
5460	62.45	PK	V	-6.29	56.16	74	-17.84
5460	51.87	AV	V	-6.29	45.58	54	-8.42
5470	69.47	РК	Н	-6.26	63.21	68.2	-4.99
5470	62.10	РК	V	-6.26	55.84	68.2	-12.36
11000	45.91	РК	Н	4.29	50.2	74	-23.8
11000	46.5	РК	V	4.29	50.79	74	-23.21
			Middle	Channel			
11160	47.46	РК	Н	3.5	50.96	74	-23.04
11160	48.01	РК	V	3.5	51.51	74	-22.49
			High C	Channel			
5725	63.28	РК	Н	-5.49	57.79	68.2	-10.41
5725	62.35	РК	V	-5.49	56.86	68.2	-11.34
11400	49.54	РК	Н	3.32	52.86	74	-21.14
11400	48.57	РК	V	3.32	51.89	74	-22.11
			Cross (Channel	•	•	
11440	48.89	РК	Н	3.42	52.31	74	-21.69
11440	48.06	РК	V	3.42	51.48	74	-22.52

Bay Area Compliance Laboratories Corp. (Shenzhen)

Report No.: 2401Z42777E-RF-00A

P	Rece	eiver	D 1		Corrected		
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			802.1	1ac40			
			Low C	Channel			
5460	64.48	РК	Н	-6.29	58.19	74	-15.81
5460	51.59	AV	Н	-6.29	45.3	54	-8.7
5460	63.47	РК	V	-6.29	57.18	74	-16.82
5460	51.94	AV	V	-6.29	45.65	54	-8.35
5470	69.05	РК	Н	-6.26	62.79	68.2	-5.41
5470	62.17	РК	V	-6.26	55.91	68.2	-12.29
11020	46.06	PK	Н	4.1	50.16	74	-23.84
11020	44.52	РК	V	4.1	48.62	74	-25.38
	1	1	Middle	Channel	1	1	
11100	47.95	PK	Н	3.34	51.29	74	-22.71
11100	46.51	PK	V	3.34	49.85	74	-24.15
		I	High (Channel		11	
5725	61.99	РК	Н	-5.49	56.5	68.2	-11.7
5725	62.48	РК	V	-5.49	56.99	68.2	-11.21
11340	48.25	РК	Н	3.46	51.71	74	-22.29
11340	47.39	PK	V	3.46	50.85	74	-23.15
		I	Cross	Channel		11	
11420	48.62	РК	Н	3.37	51.99	74	-22.01
11420	47.48	PK	V	3.37	50.85	74	-23.15
			802.1	1ac80			
			Low C	Channel			
5460	62.08	РК	Н	-6.29	55.79	74	-18.21
5460	51.87	AV	Н	-6.29	45.58	54	-8.42
5460	62.13	PK	V	-6.29	55.84	74	-18.16
5460	51.34	AV	V	-6.29	45.05	54	-8.95
5470	69.81	PK	Н	-6.26	63.55	68.2	-4.65
5470	62.11	PK	V	-6.26	55.85	68.2	-12.35
5725	63.87	PK	Н	-5.49	58.38	68.2	-9.82
5725	61.88	РК	V	-5.49	56.39	68.2	-11.81
11060	46.55	PK	Н	3.71	50.26	74	-23.74
11060	45.21	РК	V	3.71	48.92	74	-25.08
	I	1	Cross	Channel		ı	
11380	48.34	РК	Н	3.360	51.70	74.00	-22.30
11380	48.45	РК	V	3.360	51.81	74.00	-22.19

5725-5850MHz

	Rece	eiver			Corrected		
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			802	.11a			
			Low C	Channel			
5725	81.43	РК	Н	-5.49	75.94	122.2	-46.26
5725	73.7	РК	V	-5.49	68.21	122.2	-53.99
5720	71.85	PK	Н	-5.53	66.32	110.8	-44.48
5720	65.53	РК	V	-5.53	60	110.8	-50.8
5700	65.32	РК	Н	-5.72	59.6	105.2	-45.6
5700	64.89	PK	V	-5.72	59.17	105.2	-46.03
5650	64.43	PK	Н	-5.86	58.57	68.2	-9.63
5650	64.35	РК	V	-5.86	58.49	68.2	-9.71
11490	47.08	РК	Н	3.54	50.62	74	-23.38
11490	47.22	РК	V	3.54	50.76	74	-23.24
			Middle	Channel	·		
11570	48.88	РК	Н	3.3	52.18	74	-21.82
11570	49.34	РК	V	3.3	52.64	74	-21.36
			High C	Channel			
5850	70.94	РК	Н	-4.68	66.26	122.2	-55.94
5850	63.16	РК	V	-4.68	58.48	122.2	-63.72
5855	66.34	РК	Н	-4.65	61.69	110.8	-49.11
5855	62.76	РК	V	-4.65	58.11	110.8	-52.69
5875	64.12	РК	Н	-4.57	59.55	105.2	-45.65
5875	62.72	РК	V	-4.57	58.15	105.2	-47.05
5925	63.4	РК	Н	-4.45	58.95	68.2	-9.25
5925	63.58	РК	V	-4.45	59.13	68.2	-9.07
11650	49.8	РК	Н	3.42	53.22	74	-20.78
11650	48.64	PK	V	3.42	52.06	74	-21.94

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	Rece	eiver			Corrected		
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			802.1	1ac20			
			Low C	Channel			
5725	78.66	РК	Н	-5.49	73.17	122.2	-49.03
5725	68.28	PK	V	-5.49	62.79	122.2	-59.41
5720	72.07	РК	Н	-5.53	66.54	110.8	-44.26
5720	65.48	РК	V	-5.53	59.95	110.8	-50.85
5700	64.93	РК	Н	-5.72	59.21	105.2	-45.99
5700	64.91	РК	V	-5.72	59.19	105.2	-46.01
5650	64.63	РК	Н	-5.86	58.77	68.2	-9.43
5650	64.14	РК	V	-5.86	58.28	68.2	-9.92
11490	47.71	РК	Н	3.54	51.25	74	-22.75
11490	46.96	РК	V	3.54	50.5	74	-23.5
			Middle	Channel			
11570	48.8	РК	Н	3.3	52.1	74	-21.9
11570	48.85	РК	V	3.3	52.15	74	-21.85
			High C	Channel			
5850	71.36	РК	Н	-4.68	66.68	122.2	-55.52
5850	62.82	РК	V	-4.68	58.14	122.2	-64.06
5855	63.98	РК	Н	-4.65	59.33	110.8	-51.47
5855	63.2	РК	V	-4.65	58.55	110.8	-52.25
5875	63.49	РК	Н	-4.57	58.92	105.2	-46.28
5875	63.97	РК	V	-4.57	59.4	105.2	-45.8
5925	63.34	РК	Н	-4.45	58.89	68.2	-9.31
5925	62.93	РК	V	-4.45	58.48	68.2	-9.72
11650	48.59	РК	Н	3.42	52.01	74	-21.99
11650	49.42	РК	V	3.42	52.84	74	-21.16

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	Receiver				Corrected		
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			802.1	1ac40			
			Low C	Channel			
5725	80.94	РК	Н	-5.49	75.45	122.2	-46.75
5725	74.79	РК	V	-5.49	69.3	122.2	-52.9
5720	76.3	РК	Н	-5.53	70.77	110.8	-40.03
5720	70.63	РК	V	-5.53	65.1	110.8	-45.7
5700	69.31	РК	Н	-5.72	63.59	105.2	-41.61
5700	64.61	РК	V	-5.72	58.89	105.2	-46.31
5650	66.17	РК	Н	-5.86	60.31	68.2	-7.89
5650	64.92	РК	V	-5.86	59.06	68.2	-9.14
11510	48.26	РК	Н	3.53	51.79	74	-22.21
11510	47.05	РК	V	3.53	50.58	74	-23.42
			High C	Channel	·		
5850	68.71	РК	Н	-4.68	64.03	122.2	-58.17
5850	64.91	РК	V	-4.68	60.23	122.2	-61.97
5855	65.89	РК	Н	-4.65	61.24	110.8	-49.56
5855	63.27	РК	V	-4.65	58.62	110.8	-52.18
5875	64.65	РК	Н	-4.57	60.08	105.2	-45.12
5875	63.7	РК	V	-4.57	59.13	105.2	-46.07
5925	65.51	РК	Н	-4.45	61.06	68.2	-7.14
5925	64.54	РК	V	-4.45	60.09	68.2	-8.11
11590	49.75	РК	Н	3.21	52.96	74	-21.04
11590	48.45	PK	V	3.21	51.66	74	-22.34

Bay Area Compliance Laboratories Corp. (Shenzhen)

Report No.: 2401Z42777E-RF-00A

-	Receiver		D		Corrected	.	
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			802.1	1ac80		LL	
			Middle	Channel			
5725	80.04	РК	Н	-5.49	74.55	122.2	-47.65
5725	71.62	РК	V	-5.49	66.13	122.2	-56.07
5720	77.45	РК	Н	-5.53	71.92	110.8	-38.88
5720	69.58	РК	V	-5.53	64.05	110.8	-46.75
5700	76.21	РК	Н	-5.72	70.49	105.2	-34.71
5700	70.5	РК	V	-5.72	64.78	105.2	-40.42
5650	67.84	РК	Н	-5.86	61.98	68.2	-6.22
5650	65.88	РК	V	-5.86	60.02	68.2	-8.18
5850	71.26	РК	Н	-4.68	66.58	122.2	-55.62
5850	63.32	РК	V	-4.68	58.64	122.2	-63.56
5855	70.32	РК	Н	-4.65	65.67	110.8	-45.13
5855	62.88	РК	V	-4.65	58.23	110.8	-52.57
5875	64.81	РК	Н	-4.57	60.24	105.2	-44.96
5875	62.61	РК	V	-4.57	58.04	105.2	-47.16
5925	62.75	РК	Н	-4.45	58.3	68.2	-9.9
5925	64.47	РК	V	-4.45	60.02	68.2	-8.18
11550	48.11	РК	Н	3.37	51.48	74	-22.52
11550	49.38	PK	V	3.37	52.75	74	-21.25

Note:

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Factor + Reading

Margin = Corrected. Amplitude - Limit

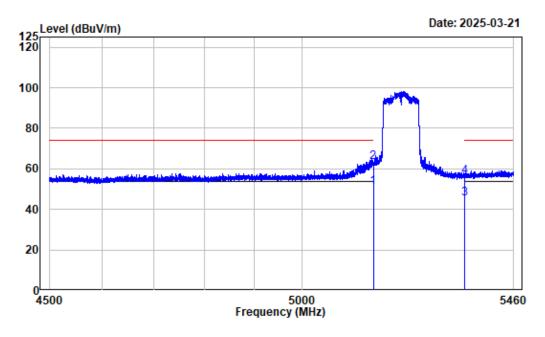
The other spurious emission which is in the noise floor level was not recorded.

The test result of peak was less than the limit of average, so just peak values were recorded.

Test plots:

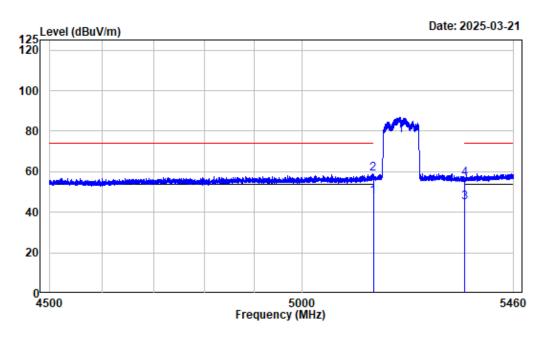
Band Edge (Listed with the worst margin test plots)

Left Band Edge_Horizontal 5GWi-Fi_B1_AC80_5210MHz



Condition :	Horizontal
Project No.:	2401Z42777E-RF
Tester :	Visen Wu
Note :	5GWiFi_B1_ac80_5210

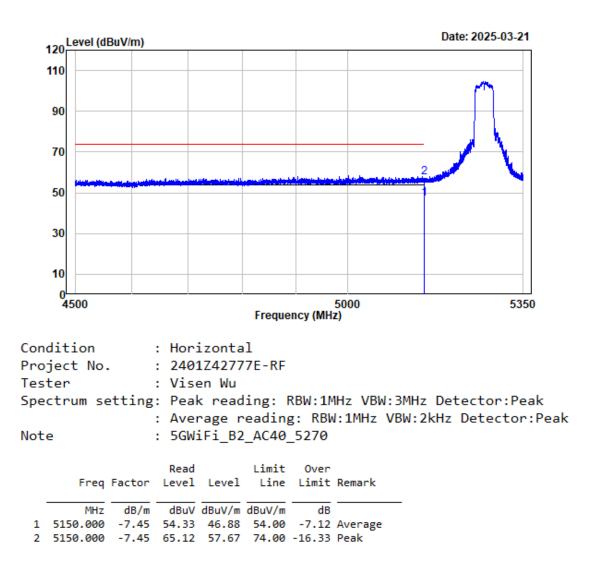
	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5150.000	-7.45	58.42	50.97	54.00	-3.03	Average
2	5150.000	-7.45	70.54	63.09	74.00	-10.91	Peak
3	5350.000	-6.74	51.90	45.16	54.00	-8.84	Average
4	5350.000	-6.74	62.66	55.92	74.00	-18.08	Peak



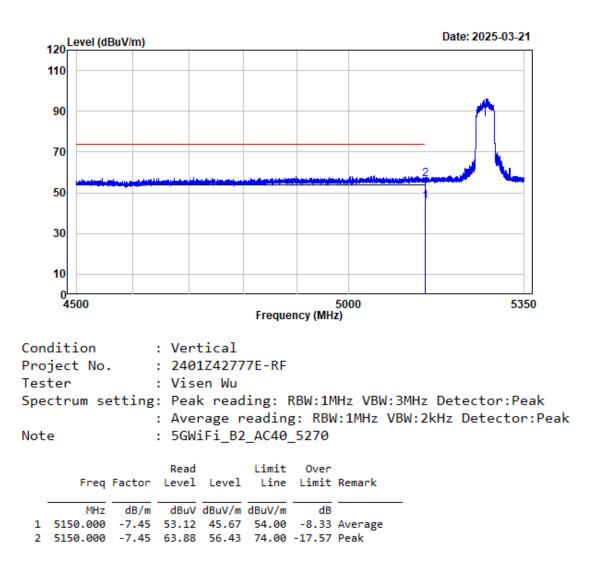
Left Band edge_Vertical 5GWi-Fi_B1_AC80_5210MHz

Condition :	Vertical
Project No.:	2401Z42777E-RF
Tester :	Visen Wu
Note :	5GWiFi_B1_ac80_5210

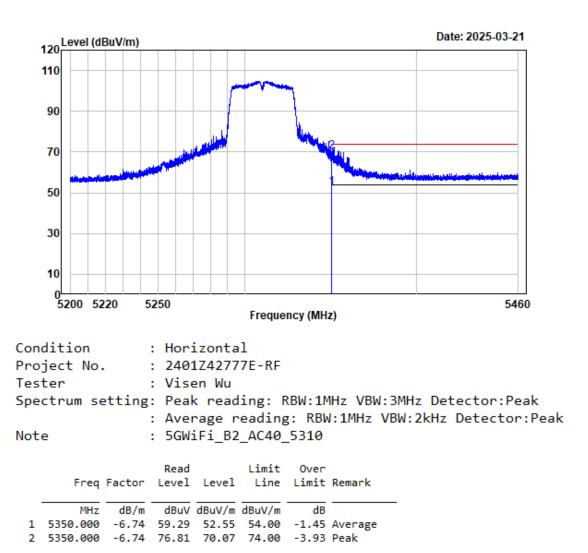
	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5150.000	-7.45	54.89	47.44	54.00	-6.56	Average
2	5150.000	-7.45	66.37	58.92	74.00	-15.08	Peak
3	5350.000	-6.74	51.78	45.04	54.00	-8.96	Average
4	5350.000	-6.74	63.41	56.67	74.00	-17.33	Peak



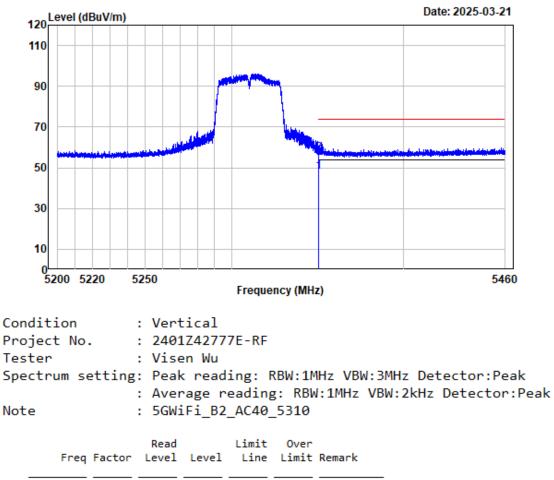
Left Band edge_Horizontal 5GWi-Fi_B2_AC40_5270MHz



Left Band edge_Vertical 5GWi-Fi_B2_AC40_5270MHz

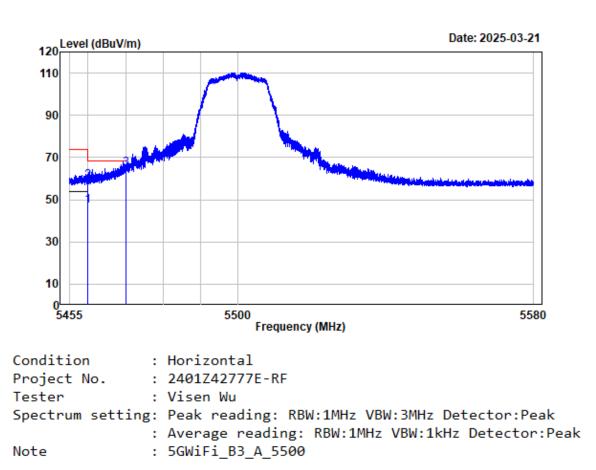


Right Band edge_Horizontal 5GWi-Fi_B2_AC40_5310MHz



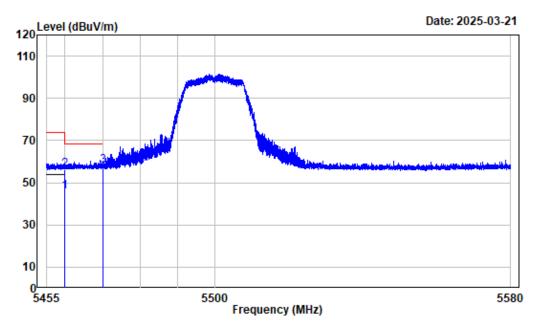
Right Band edge_Vertical 5GWi-Fi_B2_AC40_5310MHz

	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5350.000	-6.74	54.87	48.13	54.00	-5.87	Average
2	5350.000	-6.74	63.82	57.08	74.00	-16.92	Peak



Left Band edge_Horizontal 5GWi-Fi_B3_A_5500MHz

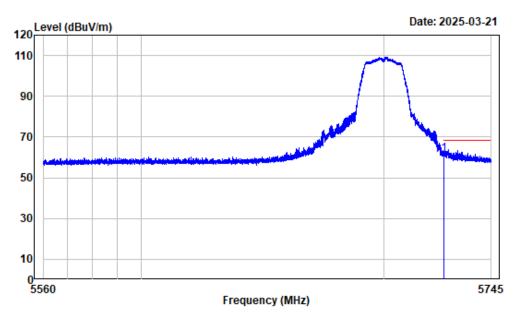
	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5460.000	-6.29	53.27	46.98	54.00	-7.02	Average
2	5460.000	-6.29	65.25	58.96	74.00	-15.04	Peak
3	5470.000	-6.26	70.89	64.63	68.20	-3.57	Peak



Left Band edge_Vertical 5GWi-Fi_B3_A_5500MHz

Condition	:	Vertical
Project No.	:	2401Z42777E-RF
Tester	:	Visen Wu
Spectrum setting	g :	Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
	:	Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note	:	5GWiFi_B3_A_5500

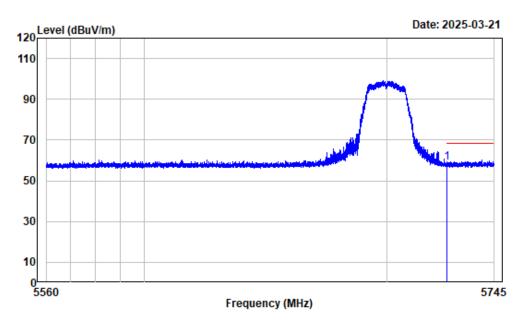
	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5460.000	-6.29	52.16	45.87	54.00	-8.13	Average
2	5460.000	-6.29	62.63	56.34	74.00	-17.66	Peak
3	5470.000	-6.26	64.00	57.74	68.20	-10.46	Peak



Right Band edge_Horizontal 5GWi-Fi_B3_A_5700MHz

Condition	: Ho	rizontal			
Project No.	: 24	01Z42777E	E-RF		
Tester	: Vi	sen Wu			
Spectrum setti	ng: Pe	ak readir	ng: RBW:1	MHz VBW:3MHz	Detector:Peak
Note	: 5G	WiFi_B3_4	A_5700		
	Rea	d I	Limit Over		
Freq Fact			Line Limit		
MHz de	/m dBu	V dBuV/m dB	BuV/m dE	3	

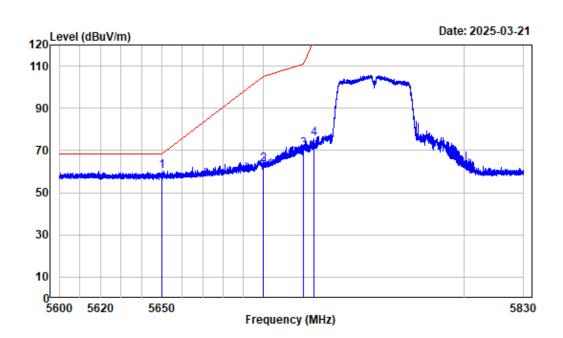
1	5725.000	-5.49	67.14	61.65	68.20	-6.55 Peak



Right Band edge_Vertical 5GWi-Fi_B3_A_5700MHz

Condition Project No.	-	Vert: 24017		7E-RF			
Tester	:	Vise	n Wu				
Spectrum se	tting:	Peak	read	ing: F	RBW:1M	Hz VBW:3MHz	Detector:Peak
Note	:	5GWi	Fi_B3	_A_570	90		
		Read		Limit	Over		
Freq	Factor	Level	Level	Line	Limit	Remark	
MHz		dBuV d	dBuV/m	dBuV/m	dB		

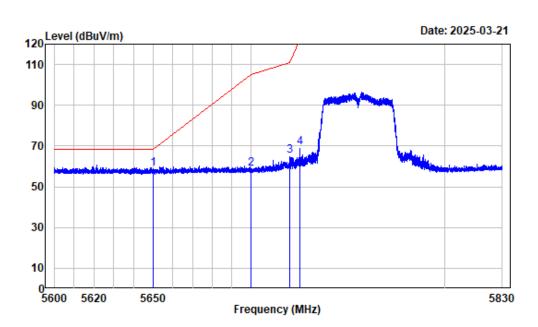
1	5725.000	-5.49	64.29	58.80	68.20	-9.40 Peak



Left Band edge_Horizontal 5GWi-Fi_B4_AC40_5755MHz

Condition	:	Horizontal
Project No.	:	2401Z42777E-RF
Tester	:	Visen Wu
Spectrum setting	g:	Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note	:	5GWiFi_B4_AC40_5755

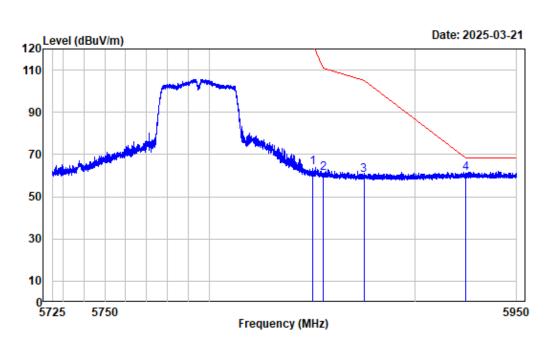
	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5650.000	-5.86	66.17	60.31	68.20	-7.89	Peak
2	5700.000	-5.72	69.31	63.59	105.20	-41.61	Peak
3	5720.000	-5.53	76.30	70.77	110.80	-40.03	Peak
4	5725.000	-5.49	80.94	75.45	122.20	-46.75	Peak



Left Band edge_Vertical 5GWi-Fi_B4_AC40_5755MHz

Condition	:	Vertical
Project No.	:	2401Z42777E-RF
Tester	:	Visen Wu
Spectrum setting	g:	Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note	:	5GWiFi_B4_AC40_5755

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5650.000	-5.86	64.92	59.06	68.20	-9.14	Peak
2	5700.000	-5.72	64.61	58.89	105.20	-46.31	Peak
3	5720.000	-5.53	70.63	65.10	110.80	-45.70	Peak
4	5725.000	-5.49	74.79	69.30	122.20	-52.90	Peak

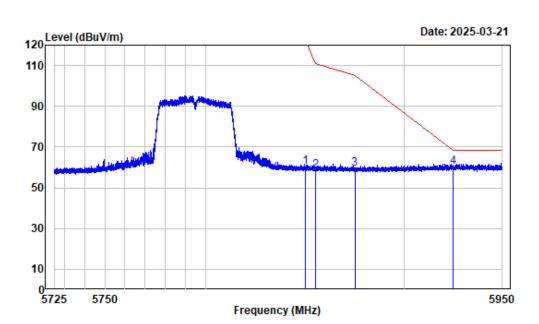


Right Band edge_Horizontal 5GWi-Fi_B4_AC40_5795MHz

Report No.: 2401Z42777E-RF-00A

Condition	:	Horizontal
Project No.	:	2401Z42777E-RF
Tester	:	Visen Wu
Spectrum setting	g :	Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note	:	5GWiFi_B4_AC40_5795

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5850.000	-4.68	68.71	64.03	122.20	-58.17	Peak
2	5855.000	-4.65	65.89	61.24	110.80	-49.56	Peak
3	5875.000	-4.57	64.65	60.08	105.20	-45.12	Peak
4	5925.000	-4.45	65.51	61.06	68.20	-7.14	Peak

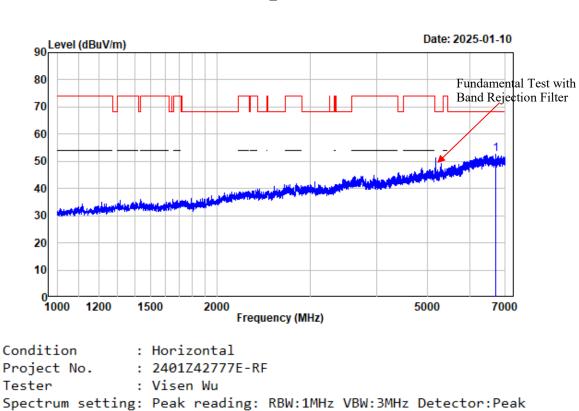


Right Band edge_Vertical 5GWi-Fi_B4_AC40_5795MHz

Condition	:	Vertical
Project No.	:	2401Z42777E-RF
Tester	:	Visen Wu
Spectrum setting	g:	Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note	:	5GWiFi_B4_AC40_5795

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5850.000	-4.68	64.91	60.23	122.20	-61.97	Peak
2	5855.000	-4.65	63.27	58.62	110.80	-52.18	Peak
3	5875.000	-4.57	63.70	59.13	105.20	-46.07	Peak
4	5925.000	-4.45	64.54	60.09	68.20	-8.11	Peak

Listed with the worst harmonic margin test plot

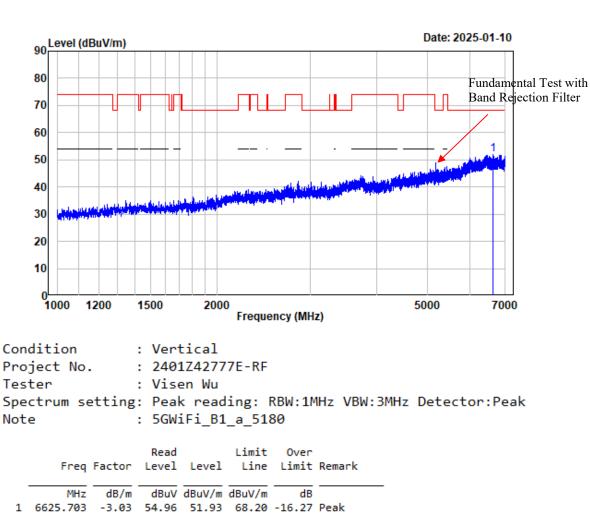


1-7GHz Horizontal

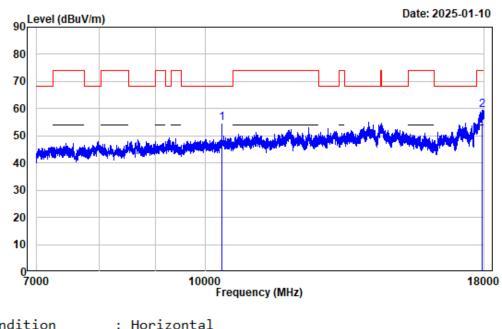
	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6726.216	-3.28	55.98	52.70	68.20	-15.50	Peak

: 5GWiFi_B1_a_5180

Note



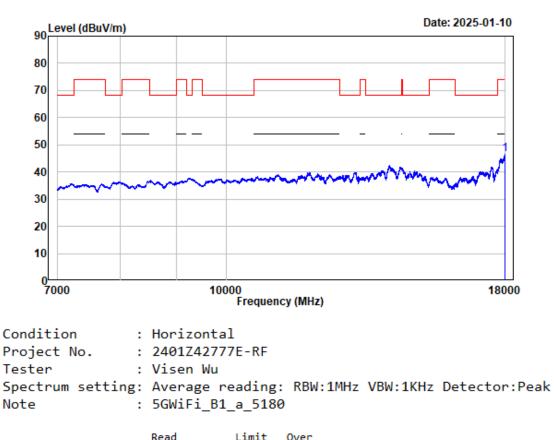
1-7GHz_Vertical



7-18GHz_Horizontal_Peak

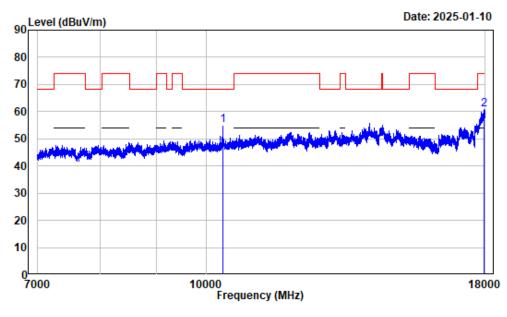
Project No. :	Horizontal 2401Z42777E-RF Visen Wu
	Peak reading: RBW:1MHz VBW:3MHz Detector:Peak 5GWiFi_B1_a_5180
	Read Limit Over

Freq	Factor	Level	Level	Line	Limit	Remark	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1 10360.000	2.53	52.09	54.62	68.20	-13.58	Peak	
2 17936.740	12.89	46.46	59.35	74.00	-14.65	Peak	



7-18GHz_Horizontal_Average

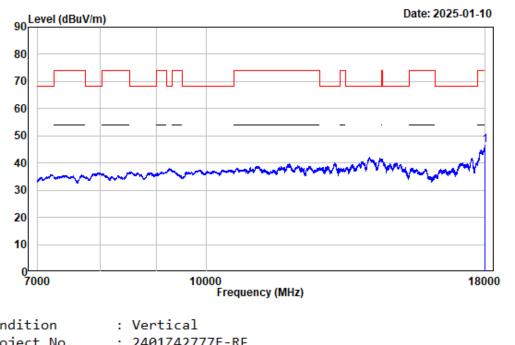
Freq	Factor			Limit		Remark	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1 17998.630	13.19	33.42	46.61	54.00	-7.39	Average	



7-18GHz_Vertical_Peak

	Vertical 2401742777F-RF
	Visen Wu
Spectrum setting:	Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note :	5GWiFi_B1_a_5180
Tester : Spectrum setting:	Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

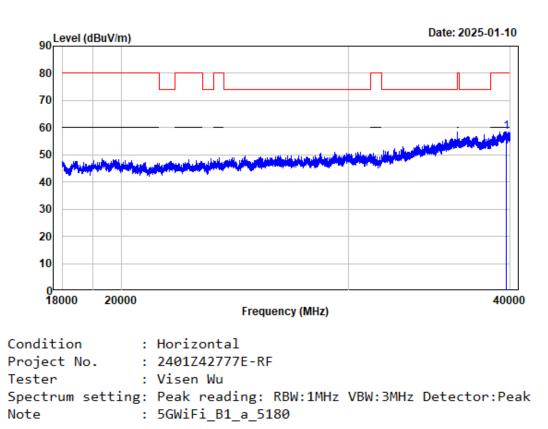
Freq	Factor			Line		Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10360.000	2.53	52.40	54.93	68.20	-13.27	Peak
2 17969.750	13.06	47.74	60.80	74.00	-13.20	Peak



7-18GHz_Vertical_Average

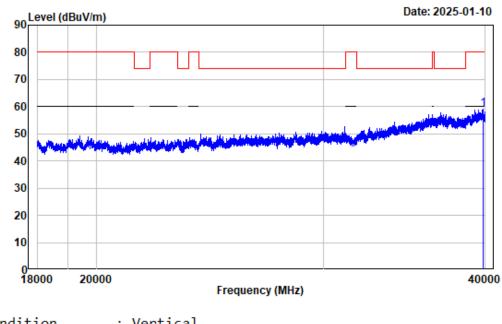
Condition Project No. Tester	: Vertical : 2401Z42777E-RF : Visen Wu
Spectrum settin	g: Average reading: RBW:1MHz VBW:1KHz Detector:Peak
Note	: 5GWiFi_B1_a_5180
	Read Limit Over
Freq Facto	· Level Level Line Limit Remark
MHz dB/	n dBuV dBuV/m dB
1 17998.630 13.1) 33.29 46.48 54.00 -7.52 Average

18-40GHz_Horizontal



Freq	Factor			Limit Line		Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 39724.960	22.60	35.86	58.46	80.00	-21.54	Peak

18-40GHz_Vertical



Condition	:	Verti	cal				
Project No.	:	2401Z	4277	7E-RF			
Tester	:	Visen	Wu				
Spectrum se	tting:	Peak	read	ing: F	RBW:1M	NHz VBW:3MHz	Detector:Peak
Note	:	5GWiF	i_B1	_a_518	30		
		Read		Limit	0ver		
Freq	Factor	Level l	Level	Line	Limit	Remark	
MHz	dB/m	dBuV dB	Buv/m	aBuV/m	dB		

PIEZ	ub/m	ubuv	ubuv/m	ubuv/m	ub	
1 39873,480	22.54	36.70	59.24	80.00	-20.76 Pea	k

RF Conducted data

Please refer to Annex "Appendix A" for detail test data.

TR-EM-RF015

Bay Area Compliance Laboratories Corp. (Shenzhen)

RF EXPOSURE EVALUATION

MPE-Based Exemption:

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(3)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § $1.1307(b)(3)(i)(C)$ - Single RF Sources Subject to Routine Environmental Evaluation							
RF Source frequency (MHz)	Threshold ERP (watts)						
0.3-1.34	1,920 R ² .						
1.34-30	3,450 R ² /f ² .						
30-300	3.83 R ² .						
300-1,500	0.0128 R ² f.						
1,500-100,000	19.2R ² .						

R is the minimum separation distance in meters f = frequency in MHz

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure \ Limit_k} \le 1$$

Result

Mode	Frequency (MHz)	Tune up conducted	Antenna Gain [#]		ERP		Evaluation Distance	ERP Limit
		power [#] (dBm)	(dBi)	(dBd)	(dBm)	(mW)	(m)	(mW)
BT	2402-2480	7.5	2.39	0.24	7.74	5.94	0.2	768
BLE	2402-2480	5.0	2.39	0.24	5.24	3.34	0.2	768
2.4G Wi-Fi	2412-2462	22.0	2.39	0.24	22.24	167.49	0.2	768
5.2G Wi-Fi	5180-5240	14.0	3.47	1.32	15.32	34.04	0.2	768
5.3G Wi-Fi	5260-5320	14.5	3.47	1.32	15.82	38.19	0.2	768
5.6G Wi-Fi	5500-5700	14.0	3.47	1.32	15.32	34.04	0.2	768
5.8G Wi-Fi	5745-5825	14.5	3.47	1.32	15.82	38.19	0.2	768

Note: 1. The tune up conducted power and antenna gain was declared by the applicant.

2. The BT, 2.4G Wi-Fi and 5G Wi-Fi cannot transmit at same time.

3. 0dBd=2.15dBi

NFC:

	Frequency	Maximum E-Field	Maximum EIRP	E	RP	Evaluation Distance (m)	ERP Limit (mW)
Mode	(MHz)	(dBuV/m@3m)	(dBm)	(dBm)	(mW)		
NFC	13.56	68.82	-26.38	-28.53	0.0014	0.2	751

Note: EIRP = E-Field -95.2 @3m, ERP = EIRP-2.15

Simultaneous transmitting consideration (worst case):

The ratio= $\text{ERP}_{2.4G \text{ Wi-Fi}}$ /limit + ERP_{NFC} /limit = 167.49/768+ 0.0014/751 =0.218<1.0

So simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant

EUT PHOTOGRAPHS

Please refer to the attachment 2401Z42777E-RF External photo and 2401Z42777E-RF Internal photo.

Bay Area Compliance Laboratories Corp. (Shenzhen)

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2401Z42777E-RFC Test Setup photo.

***** END OF REPORT *****

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