



FCC Part 15.407 RSS-247 ISSUE 3, August 2023 RSS-GEN Issue 5, February 2021 Amendment 2 TEST REPORT

For

Radicom Research, Inc.

671 E.Brokaw Road, San Jose, CA 95112, United States

FCC ID: K7T-WIFIHU52 IC: 2377A-WIFIHU52

Report Type:Product Type:Original ReportWiFiHU52 Module

Report Producer: Coco Lin

Report Number: RXZ240408022RF02

Report Date : <u>2024-10-15</u>

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Revision History

Revision	No.	Report Number	Issue Date	Description	Author/
		F		0000 - p 0000	Revised by
0.0	RXZ240408022	RXZ240408022RF02	2024-10-15	Original Report	Coco Lin

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1 General Information

1.1 Product Description for Equipment under Test (EUT)

A1:	Radicom Research, Inc.
Applicant	671 E.Brokaw Road, San Jose, CA 95112, United States
Brand(Trade) Name	Radicom
Product (Equipment) / PMN	WiFiHU52 Module
Main Model Name	WiFiHU52
III/DI	WiFiHU52, WiFiHU52M-a, WiFiHU52-NE1-a, WiFiHU52S-a,
HVIN	WiFiHU52M-c, WiFiHU52-NE1-c, WiFiHU52S-c
	FCC:
	WiFiHU52M-a, WiFiHU52M-c, WiFiHU52-HM-a,
	WiFiHU52-HM-c, WiFiHU52-NE1-a, WiFiHU52-NE1-c,
	WiFiHU52S-a, WiFiHU52S-c, WiFiHU52-NE2-a,
Series Model Name	WiFiHU52-NE2-c, WiFiHU52D-a, WiFiHU52D-c,
	WiFiHU52E, WiFiHU52E-T
	IC:
	WiFiHU52M-a, WiFiHU52-NE1-a, WiFiHU52S-a,
	WiFiHU52M-c, WiFiHU52-NE1-c, WiFiHU52S-c
	The major electrical and mechanical constructions of series models are
	identical to the basic model, the difference lies in the use of different
	antenna types. Chip Antenna :
	WiFiHU52, WiFiHU52M-a, WiFiHU52-HM-a, WiFiHU52-NE1-a,
Model Discrepancy	WiFiHU52S-a, WiFiHU52-NE2-a, WiFiHU52D-a, WiFiHU52E,
	WiFiHU52E-T
	IPEX Connector:
	WiFiHU52M-c, WiFiHU52-HM-c, WiFiHU52-NE1-c,
	WiFiHU52S-c, WiFiHU52-NE2-c, WiFiHU52D-c
Frequency Range	5150 MHz ~ 5250 MHz , 5725 MHz ~ 5850 MHz
Maximum Conducted Average	5150-5250 MHz: 16.36 dBm
Output Power	5725-5850 MHz: 17.37 dBm
	IEEE 802.11a Mode: OFDM
Modulation Technique	IEEE 802.11n HT20/ ac VHT20 Mode: OFDM
Modulation reeminque	IEEE 802.11n HT40/ ac VHT40 Mode: OFDM
	IEEE 802.11ac VHT80 Mode: OFDM
Power Operation	5Vdc from USB
(Voltage Range)	J vac nom OSB
Received Date	2024/04/08

^{*}All measurement and test data in this report was gathered from production sample serial number:

RXZ240408022-1, RXZ240408022-2 (Assigned by BACL, New Taipei Laboratory).

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1.2 Objective

This report is prepared on behalf of *Radicom Research*, *Inc.* in accordance with Part 2, Subpart J, Part 15, Subparts A, and E of the Federal Communication Commission's rules and RSS-247 Issue 3, August 2023 and RSS-GEN Issue 5, February 2021 Amendment 2 of the Innovation, Science and Economic Development Canada.

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1.3 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 RSS-247 Issue 3, August 2023 and RSS-GEN Issue 5, February 2021 Amendment 2 of the Innovation, Science and Economic Development Canada.

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.4 Statement

Decision Rule: No, (The test results do not include MU judgment)

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Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. The determination of the test results does not require consideration of the uncertainty of the

measurement, unless the assessment is required by customer agreement, regulation or standard document specification.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

1.5 Measurement Uncertainty

Parameter		Uncertainty
AC Mains		+/- 3.02 dB
RF output power, conducted		+/- 0.57 dB
Power Spectral Density, con	ducted	+/- 0.60 dB
Occupied Bandwidth		+/- 0.09 %
Unwanted Emissions, condu	cted	+/- 1.09 dB
	9 kHz~30 MHz	+/- 3.20 dB
Emissions, radiated	30 MHz~1 GHz	+/- 3.30 dB
Ellissions, fadiated	1 GHz~18 GHz	+/- 5.14 dB
	18 GHz~40 GHz	+/- 4.75 dB
Temperature		+/- 0.76 °C
Humidity		+/- 0.41 %

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.

1.6 Environmental Conditions

Test Site	Test Date	Temperature (°C)	Relative Humidity (%)	ATM Pressure (hPa)	Test Engineer
AC Line Conducted Emissions	2024/5/15	22.9	65	1010	Jing
Radiation Spurious Emissions	2024/4/30~2024/5/9	23.2~24.2	57~68	1010	Aaron
Duty Cycle	2024/4/9	23.1	55	1010	Jing
26dB attenuated below the channel power	2024/5/6	25.8	59	1010	Jing
Emission Bandwidth And Occupied Bandwidth	2024/4/30	25.9	53	1010	Jing
Maximum Output Power	2024/4/30	25.9	53	1010	Jing
Power Spectral Density	2024/4/30	25.9	53	1010	Jing

1.7 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) to collect test data is located on

70, Lane 169, Sec. 2, Datong Road, Xizhi Dist., New Taipei City 221, Taiwan, R.O.C.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3732) and the FCC designation No.TW3732 under the Mutual Recognition Agreement (MRA) in FCC Test.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: TW3732.

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2 System Test Configuration

2.1 Description of Test Configuration

The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40/ac vht80.

Since the 802.11n ht20/n ht40 parameters are the same as 802.11ac vht20 and ac vht40, 802.11n ht20/n ht40 is reduced.

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The device supports softAP mode and client mode.

For 5150 ~ 5250MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
40	5200	48	5240

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
42	5210

^{802.11}a/n20/ac20 mode Channel 36, 40, 48 were tested.

For 5725 ~ 5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	161	5805
153	5765	165	5825
157	5785	/	/

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
155	5775

802.11a/n20/ac20 mode Channel 149, 157, 165 were tested.

802.11n40/ac40 mode Channel 151, 159 were tested.

802.11ac80 mode Channel 155 was tested.

^{802.11}n40/ac40 mode Channel 38, 46 were tested.

^{802.11}ac80 mode Channel 42 was tested.

2.2 EUT Exercise Software

The test software was used "MPTool v3.08"

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

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UNII Band	Mode	Channel	Frequency (MHz)	Power setting
		36	5180	57
UNII-1		40	5200	57
	902.11-	48	5240	57
	802.11a	149	5745	57
UNII-3		157	5785	57
		165	5825	57
		36	5180	58
UNII-1		40	5200	58
	802.11n HT20 / ac VHT20	48	5240	58
	802.1111 H120 / ac VH120	149	5745	58
UNII-3		157	5785	58
		165	5825	58
UNII-1		38	5190	48
UNII-1	802.11n HT40 / ac VHT40	46	5230	48
UNII-3	002.1111 1140 / ac v 1140	151	5755	48
UNII-3		159	5795	48
UNII-1	802.11ac VHT80	42	5210	44
UNII-3	002.11ac v11100	155	5775	44

The worst case data rates are as follows:

802.11a: 6Mbps

802.11ac VHT20: MCS0 802.11ac VHT40: MCS0 802.11ac VHT80: MCS0

2.3 Equipment Modifications

No modification was made to the EUT.

2.4 Test Mode

Mode 1: WiFiHU52M-c + Dipole antenna.

Mode 2: WiFiHU52 + Chip antenna.

2.5 Support Equipment List and Details

Description	Manufacturer	Model Number
NB	DELL	E6410
Fixture	RADICOM RESEARCH INC	A9 REV. A1

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2.6 External Cable List and Details

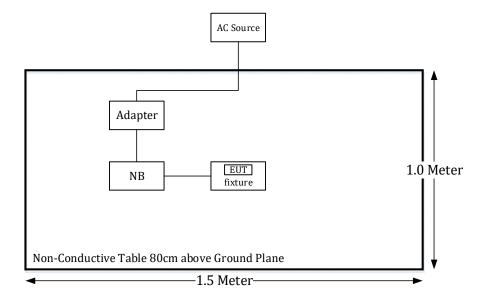
Description	Manufacturer	Cable length
USB Cable	BACL	1.2m

2.7 Block Diagram of Test Setup

See test photographs attached in setup photos for the actual connections between EUT and support equipment.

Radiation:

Below 1GHz

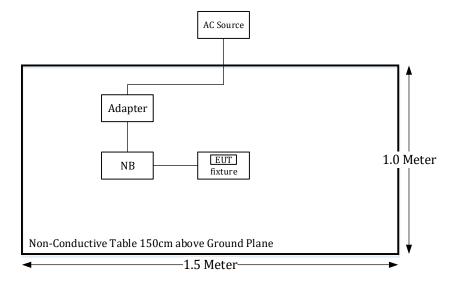


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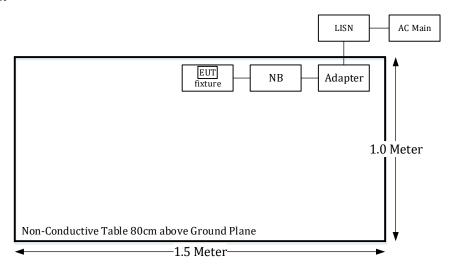
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No.: RXZ240408022RF02

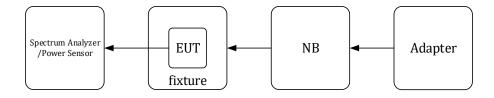
Above 1GHz:



Conduction:



Conducted:



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2.8 Duty Cycle

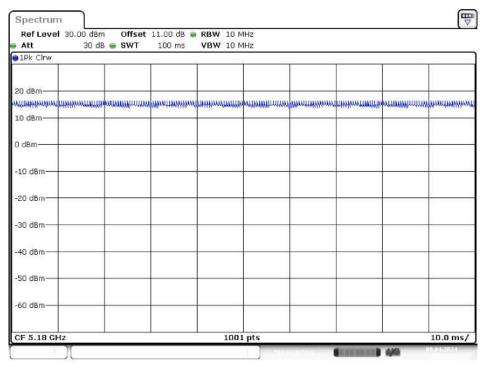
The duty cycle as below:

Radio Mode	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T (kHz)	VBW Setting (kHz)
802.11a	100	100	100	0.00	/	0.01
802.11ac 20	100	100	100	0.00	/	0.01
802.11ac 40	100	100	100	0.00	/	0.01
802.11ac 80	100	100	100	0.00	/	0.01

Note: Duty Cycle Correction Factor = 10*log(1/duty cycle)

Please refer to the following plots.

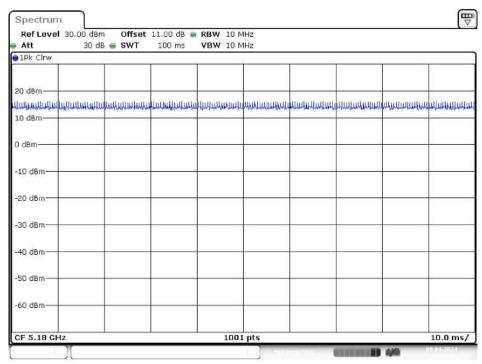
802.11a Mode



Date: 9.APR.2024 12:25:55

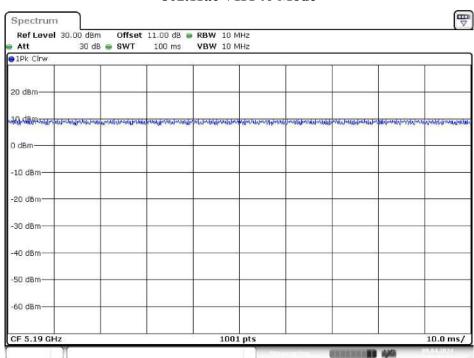
802.11ac VHT20 Mode

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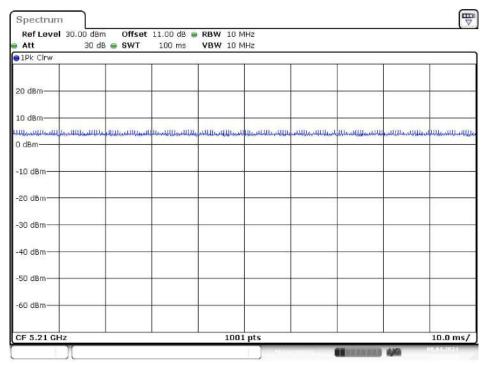
Date: 9.APR.2024 14:21:08

802.11ac VHT40 Mode



Date: 9.APR.2024 14:32:29

802.11ac VHT80 Mode



Date: 9.APR.2024 14:12:48

3 Summary of Test Results

Standard(s) Section	Description of Test	Results
FCC §15.407(f), §1.1307(b)(3)	RF Exposure	Compliance
RSS-102 §2.5.2	Exemption From Routine Evaluation Limits – RF Exposure Evaluation	Compliance
§15.203 RSS-GEN §6.8	Antenna Requirement	Compliance
§15.407(b)(9) & §15.207(a) RSS- GEN §8.8	AC Line Conducted Emissions	Compliance
§15.205 & §15.209 & §15.407(b) RSS-247 §6.2 RSS-GEN §8.9 RSS-GEN §8.10	Unwanted Emission	Compliance
RSS-247 §6.2.1.2	26dB Attenuated Below The Channel Power	Compliance
§15.407(a)(e) RSS-247 §6.2 RSS- GEN §6.7	Emission Bandwidth	Compliance
§15.407(a) RSS-247 §6.2	Conducted Transmitter Output Power	Compliance
§15.407(a) RSS-247 §6.2	Power Spectral Density	Compliance
RSS-247 §6.4	Additional requirements	Compliance

4 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date	
	A.C.	Line Conduction Roc		Date	Due Date	
LISN	Rohde & Schwarz	ENV216	101612	2024/2/16	2025/2/14	
EMI Test						
Receiver	Rohde & Schwarz	ESW8	100947	2023/5/22	2024/5/21	
Pulse Limiter	Rohde & Schwarz	ESH3Z2	TXZEM104	2023/5/18	2024/5/16	
RF Cable	EMEC	EM-CB5D	1	2023/6/6	2024/6/4	
Software	AUDIX	E3	V9.150826k	N.C.R	N.C.R	
Radiation 3M Room (966-A)						
Active Loop Antenna	ETS-Lindgren	6502	35796	2024/3/27	2025/3/26	
Bilog Antenna with 6 dB Attenuator	SUNOL SCIENCES & MINI-CIRCUITS	JB6/UNAT-6+	A050115/1554 2_01	2024/1/19	2025/1/17	
Double Ridged Guide Horn Antenna	A.H. system	SAS-571	1020	2023/5/18	2024/5/16	
Horn Antenna	ETS-Lindgren	3116	62638	2023/8/25	2024/8/23	
Preamplifier	Sonoma	310N	130602	2023/6/16	2024/6/14	
Preamplifier	Channel	ERA-100M-18G- 01D1748	EC2300051	2024/3/29	2025/3/28	
Microware Preamplifier	EM Electronics Corporation	EM18G40G	60656	2024/1/8	2025/1/6	
Spectrum Analyzer	Rohde & Schwarz	FSV40	101939	2024/3/27	2025/3/26	
EMI Test Receiver	Rohde & Schwarz(R&S)	ESR3	102099	2023/6/16	2024/6/14	
Microflex Cable	UTIFLEX	UFB197C-1- 2362-70U-70U	225757-001	2024/1/23	2025/1/21	
Coaxial Cable	UTIFLEX	UFB311A-Q- 1440-300300	220490-006	2024/1/23	2025/1/21	
Coaxial Cable	COMMATE	PEWC	8Dr	2023/12/23	2024/12/21	
Cable	EMC	EMC105-SM- SM-10000	201003	2024/1/23	2025/1/21	
Coaxial Cable	JUNFLON	J12J102248-00- B-5	AUG-07-15- 044	2023/12/23	2024/12/21	
Coaxial Cable	ROSNOL	K1K50-UP0264- K1K50-450CM	160309-1	2024/1/23	2025/1/21	
Microflex Cable	ROSNOL	K1K50-UP0264- K1K50-80CM	160309-2	2024/1/23	2025/1/21	
Band-stop filter	SinoSciTe	BSF5150-5850 MN-0899-002	001	2023/10/20	2024/10/19	
High-pass filter	XINGBOKEJI	XBLBQ-GTA29	200121-3-26	2023/10/20	2024/10/19	
Software	AUDIX	E3	18621a	N.C.R	N.C.R	
	T ::	Conducted Roc	om T	Г	Г	
Spectrum	Rohde &	FSV40	101204	2023/5/30	2024/5/28	
Analyzer	Schwarz(R&S)					
Cable	UTIFLEX	UFA210A	9435	2023/10/2	2024/9/30	
Power Sensor	Agilent	U2021XA	MY54080018	2024/1/30	2025/1/28	
Attenuator	MCL	BW-S10W5+	1419	2024/2/23	2025/2/21	

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^{*}Statement of Traceability: BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to the SI System of Units via the R.O.C. Center for Measurement Standards of the Electronics Testing Center, Taiwan (ETC) or to another internationally recognized National Metrology Institute (NMI), and were compliant with the current Taiwan Accreditation Foundation (TAF) requirements.

5 FCC §15.407(f), §1.1307(b)(3) – RF Exposure

5.1 Applicable Standard

According to subpart 15.407(f) and subpart §1.1307(b)(3), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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For single RF sources (*i.e.*, any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold *Pth* (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). *Pth* is given by:

$$P_{th} \; (\text{mW}) = \begin{cases} ERP_{20\;cm} (d/20\;\text{cm})^{\times} & d \leq 20\;\text{cm} \\ ERP_{20\;cm} & 20\;\text{cm} < d \leq 40\;\text{cm} \end{cases}$$
 Where
$$x = -\log_{10} \left(\frac{60}{ERP_{20\;cm} \sqrt{f}} \right) \; \text{and} \; f \text{is in GHz};$$
 and
$$ERP_{20\;cm} \; (\text{mW}) = \begin{cases} 2040f & 0.3\;\text{GHz} \leq f < 1.5\;\text{GHz} \\ 3060 & 1.5\;\text{GHz} \leq f \leq 6\;\text{GHz} \end{cases}$$

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the freespace operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

	(C) - Single RF Sources Subject to Routine Inmental 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 .

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5.2 RF Exposure Evaluation Result

Project info

Band	Freq (MHz)	Tune-up Power (dBm)	Ant Gain (dBi)	Distances (mm)	Tune-up Power (mW)	ERP (dBm)	ERP (mW)
WiFi 5GHz Band 1	5180	16.5	3.42	200	44.67	17.77	59.84
WiFi 5GHz Band 4	5745	17.5	3.42	200	56.23	18.77	75.34

^{§ 1.1307(}b)(3)(i)(A) method is not applicable.

§ 1.1307(b)(3)(i)(C)

Band	Freq (MHz)	λ/2π (mm)	Distances applies	ERP Limit (mW)	Result Option C
WiFi 5GHz Band 1	5180	9.22	apply	768.00	exempt
WiFi 5GHz Band 4	5745	8.31	apply	768.00	exempt

The minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates

ERP (watts) is no more than the calculated value prescribed for that frequency

R must be at least $\lambda / 2\pi$

Note: The Tune-up output power was declared by the Applicant.

Wi-Fi 2.4G and Wi-Fi 5G can't transmit simultaneously.

Result: The device compliant the MPE-Based Exemption at 20cm distances.

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 $[\]lambda$ is the free-space operating wavelength in meters

6 RSS-102 §2.5.2 – EXEMPTION FROM ROUTINE EVALUATION LIMITS – RF EXPOSURE EVALUATION

No.: RXZ240408022RF02

6.1 Applicable Standard

According to RSS-102 2.5.2

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz^{Footnote6} and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

6.2 RF Exposure Evaluation Result

Mode	Frequency Range	Antenna Gain (dBi)	Tune-up Power (dBm)	EII Tune-uj		Exemption Limit
	(MHz)	(uDi)	(uDiii)	(dBm)	(W)	(W)
5G WIFI Band 1	5150-5250	3.42	18.5	21.92	0.16	4.52
5G WIFI Band 4	5725-5825	3.42	19	22.42	0.17	4.85

Note: The Tune-up output power was declared by the Applicant.

Wi-Fi 2.4G and Wi-Fi 5G can't transmit simultaneously.

Result: The device meets the exemption requirement

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

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7 FCC §15.203 & RSS-GEN §6.8 – Antenna Requirements

7.1 Applicable Standard

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used.

No.: RXZ240408022RF02

According to RSS-Gen §6.8, The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. fo transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested. For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

7.2 Antenna Information

Manufacturer	Туре	Model	Antenna Gain (dBi)	Input impedance
onewave	Chip	WAN3216FU58H05	5150~5250 MHz: 3.42	50Ω
Officwave	Antenna	nna WANSZIOI OSOIIOS	5725~5850 MHz: 3.42	3032
Brito	Dipole	WLAN ANTENNA	5150~5250 MHz: 3.29	50Ω
Brito	Antenna	WLAN ANTENNA	5725~5850 MHz: 3.05	3022

The antenna uses non-standard connectors and meets the requirements of this section. Please refer to EUT photos. With Chip Antenna models EUT, provides two channels of signal transmission, one for WiFi 2.4GHz and one for WiFi 5GHz.

Result: Compliance

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8 FCC §15.407(b)(9), §15.207(a) & RSS-GEN §8 – AC Line Conducted Emissions

No.: RXZ240408022RF02

8.1 Applicable Standard

As per FCC §15.407(b) (9)

Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207

RSS-Gen Clause 8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

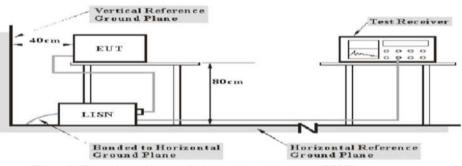
For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

The lower limit applies at the boundary between the frequencies ranges.

Frequency of Emission	Conducted I	Limit (dBuV)
(MHz)	Quasi-Peak	Average
0.15-0.5	66 to 56 Note 1	56 to 46 Note 1
0.5-5	56	46
5-30	60	50

Note 1: Decreases with the logarithm of the frequency.

8.2 EUT Setup



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

2. Both of LISNs (AMIN) 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 and RSS-GEN limits.

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8.3 EMI Test Receiver Setup

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

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

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

No.: RXZ240408022RF02

8.4 Test Procedure

During the conducted emission test, the adapter was connected to the outlet of 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.

8.5 Corrected Factor & Over Limit Calculation

The factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

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 Over Limit calculation is as follows:

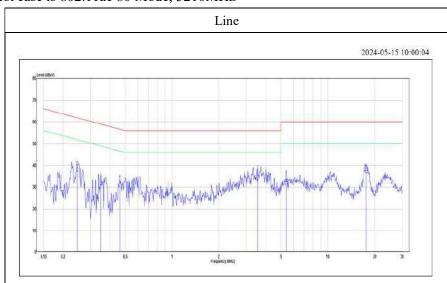
Over Limit = Result – Limit Line

8.6 Test Results

Test Mode: Transmitting

Main: AC120 V, 60 Hz

Mode 1: Worst case is 802.11ac 80 Mode, 5210MHz



No.: RXZ240408022RF02

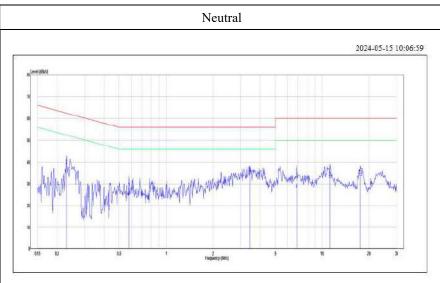
No.	Frequency	Reading	Correct	Result	Limit	Over limit	Remark	Phase
	(MHz)	dBuV	Factor(dB)	dBuV	dBuV	(dB)		
1	0.246	18.95	19.46	38.41	61.91	-23.50	QP	Line
2	0.246	17.26	19.46	36.72	51.91	-15.19	Average	Line
3	0.350	11.79	19.51	31.30	58.96	-27.66	QP	Line
4	0.350	10.39	19.51	29.90	48.96	-19.06	Average	Line
5	0.464	11.16	19.56	30.72	56.63	-25.91	QP	Line
6	0.464	11.16	19.56	30.72	46.63	-15.91	Average	Line
7	3.547	11.11	20.07	31.18	56.00	-24.82	QP	Line
8	3.547	12.39	20.07	32.46	46.00	-13.54	Average	Line
9	5.419	11.36	20.11	31.47	60.00	-28.53	QP	Line
10	5.419	11.59	20.11	31.70	50.00	-18.30	Average	Line
11	17.661	16.53	20.33	35.86	60.00	-23.14	QP	Line
12	17.661	15.41	20.33	35.74	50.00	-14.26	Average	Line

Note:

Result = Reading + Factor

Over Limit = Result – Limit Line

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator



No. Frequency (MHz)	Frequency	Reading	Correct	Result	Limit	Over limit	Remark	Phase
	(MHz)	dBuV	Factor(dB)	dBuV	dBuV	(dB)		
1	0.229	19.92	19.46	39.38	62.48	-23.10	QP	Neutral
2	0.229	19.15	19.46	38.61	52.48	-13.87	Average	Neutral
3	0.579	8.66	19.62	28.28	56.00	-27.72	QP	Neutral
4	0.579	4.69	19.62	24.31	46.00	-21.69	Average	Neutral
5	3.454	15.11	20.07	35.18	56.00	-20.82	QP	Neutral
6	3.454	13.94	20.07	34.01	46.00	-11.99	Average	Neutral
7	6.841	10.77	20.11	30.88	60.00	-29.12	QP	Neutral
8	6.841	7.35	20.11	27.46	50.00	-22.54	Average	Neutral
9	11.257	13.09	20.14	33.23	60.00	-26.77	QP	Neutral
10	11.257	11.90	20.14	32.04	50.00	-17.96	Average	Neutral
11	17.568	13.85	20.39	34.24	60.00	-25.76	QP	Neutral
12	17.568	12.64	20.39	33.03	50.00	-16.97	Average	Neutral

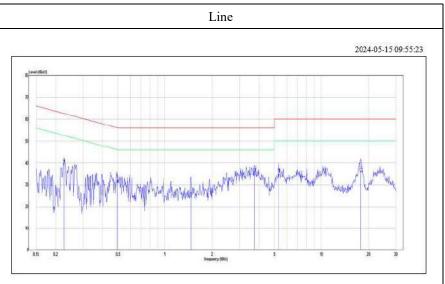
Note:

Result = Reading + Factor

Over Limit = Result – Limit Line

 $Factor = (LISN,\, ISN,\, PLC \,\, or \,\, current \,\, probe) \,\, Factor + Cable \,\, Loss + Attenuator$

Mode 2: Worst case is 802.11ac 80 Mode, 5210MHz



No.: RXZ240408022RF02

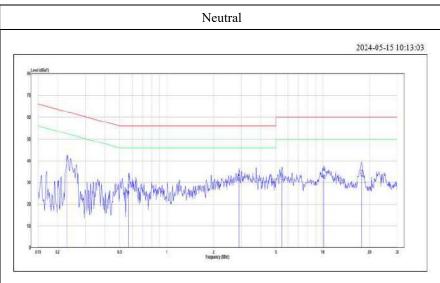
Christian United	Frequency	Reading	Correct	Result	Limit	Over limit	Remark	Phase
	(MHz)	dBuV	Factor(dB)	dBuV	dBuV	(dB)		
1	0.227	19.79	19.45	39.24	62.57	-23.33	QP	Line
2	0.227	19.33	19.45	38.78	52.57	-13.79	Average	Line
3	0.494	12.85	19.57	32.42	56.10	-23.68	QP	Line
4	0.494	10.31	19.57	29.88	46.10	-16.22	Average	Line
5	1.464	4.24	19.91	24.15	56.00	-31.85	QP	Line
6	1.464	3.09	19.91	23.00	46.00	-23.00	Average	Line
7	3.720	14.85	20.07	34.92	56.00	-21.08	QP	Line
8	3.720	13.65	20.07	33.72	46.00	-12.28	Average	Line
9	5.333	12.53	20.11	32,64	60.00	-27.36	QP	Line
10	5.333	14.94	20.11	35,05	50.00	-14.95	Average	Line
11	17.755	16.21	20.33	36.54	60.00	-23.46	QP	Line
12	17.755	14.82	20.33	35.15	50.00	-14.85	Average	Line

Note:

Result = Reading + Factor

 $Over\ Limit = Result - Limit\ Line$

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator



	Frequency	Reading	Correct	Result	Limit	Over limit	Remark	Phase
	(MHz)	dBuV	Factor(dB)	dBuV	dBuV	(dB)		
1	0.229	19.90	19.46	39.36	62.48	-23.12	QP	Neutral
2	0.229	19.59	19.46	39.05	52.48	-13.43	Average	Neutral
3	0.570	7.20	19.62	26.82	56.00	-29.18	QP	Neutral
4	0.570	4.46	19.62	24.08	46.00	-21.92	Average	Neutral
5	2.915	11.30	20.05	31.35	56.00	-24.65	QP	Neutral
6	2.915	9.86	20.05	29.91	46.00	-16.09	Average	Neutral
7	5.476	9.22	20.11	29.33	60.00	-30.67	QP	Neutral
8	5.476	11.48	20.11	31.59	50.00	-18.41	Average	Neutral
9	10.125	11.41	20.10	31.51	60.00	-28.49	QF	Neutral
10	10.125	10.97	20.10	31.07	50.00	-18.93	Average	Neutral
11	17.755	13.32	20.39	33.71	60.00	-26.29	QP	Neutral
12	17.755	11.79	20.39	32.18	50.00	-17.82	Average	Neutral

Note:

Result = Reading + Factor

Over Limit = Result – Limit Line

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator

9 FCC §15.209, §15.205, §15.407(b) & RSS-247 §6.2, RSS-GEN §8.9, RSS-GEN §8.10 – Spurious Emissions

No.: RXZ240408022RF02

9.1 Applicable Standard

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	608 - 614	4.5 - 5.15
0.495 - 0.505	16.69475 – 16.69525	960 - 1240	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	1300 - 1427	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1435 - 1626.5	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1645.5 - 1646.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1660 - 1710	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1718.8 - 1722.2	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	2200 - 2300	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2310 - 2390	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2483.5 - 2500	15.35 - 16.2
8.362 - 8.366	156.52475 – 156.52525	2690 - 2900	17.7 - 21.4
8.37625 - 8.38675	156.7 – 156.9	3260 - 3267	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3.332 - 3.339	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	$3\ 3458 - 3\ 358$	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3.600 - 4.400	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4		Above 38.6
13.36 - 13.41	399.9 – 410		

As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

	• 1	
Frequency (MHz)	Field Strength (micro volts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

Note 1: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

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As per RSS-GEN §8.9: Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Table 5 – General field strength limits at frequencies above 30 MHz				
Frequency (MHz)	Field Strength (μV/m at 3 m)			
30 - 88	100			
88 - 216	150			
216 - 960	200			
Above 960	500			

Table 6 – General field strength limits at frequencies below 30 MHz

Frequency (MHz)	Field Strength (H-Field) (μΑ/m)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Note 2: The limit was added 51.5dB to convert the limit from dBuA/m to dBuV/m.

According to ANSI C63.10-2013, section 5.3.3

Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field, and the emissions to be measured can be detected by the measurement equipment (see 4.3.4). Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. Measurements from 18 GHz to 40 GHz are typically made at distances significantly less than 3 m from the EUT. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade of distance (inverse of linear distance for field-strength measurements or inverse of linear distance-squared for power-density measurements).

As per FCC Part 15.407 (b)

- 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.
- 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.
- 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.
- For transmitters operating in the 5.725-5.85 GHz band: 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.

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Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

No.: RXZ240408022RF02

The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

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

RSS-247 Clause 6.2

5.15-5.25 GHz

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS)and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

5.725-5.850 GHz

Devices operating in the band 5725-5850 MHz with antenna gain of 10 dBi or less can have unwanted emissions that comply with either the limits in this section or in section 5.5 until April 1, 2018 for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2020.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

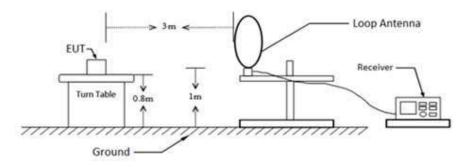
27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 Bm/MHz at 5 MHz above or below the band edges;

15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;

10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

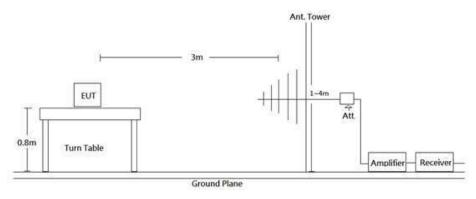
9.2 EUT Setup

9kHz-30MHz:

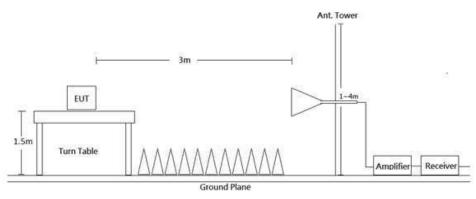


No.: RXZ240408022RF02

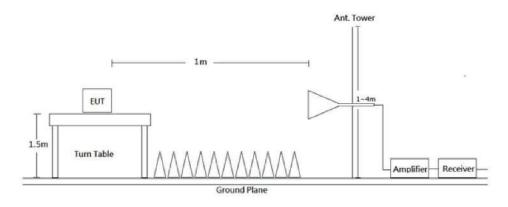
30MHz-1GHz:



1-18 GHz:



18-40 GHz:



Radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part 15.209, FCC 15.407, RSS-247, RSS-GEN Limits.

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9.3 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 was set with the following configurations measurement method 6.3 in ANSI C63.10.

Frequency Range	RBW	VBW	Duty cycle	Measurement method
9 kHz - 150 kHz	200 Hz/300 Hz	1 kHz	/	QP/AV
150 kHz - 30 MHz	9 kHz/10 kHz	30 kHz	/	QP/AV
30-1000 MHz	120 kHz	300 kHz	/	QP
	1 MHz	3 MHz	/	PK
Above 1 GHz	1 MHz	10 Hz	>98%	Ave
	1 MHz	1/T	<98%	Ave

Note: T is minimum transmission duration

9.4 Test Procedure

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

All data was recorded in Quasi-peak and average detector mode from 9 kHz to 30 MHz, Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

According to C63.10, emission shall be computed as: $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for d = 3 meters.

All emissions under the average limit and under the noise floor have not recorded in the report

9.5 Corrected Factor & Margin Calculation

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

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain

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

Margin = Level - Limit

9.6 Test Results

Test Mode: Transmitting

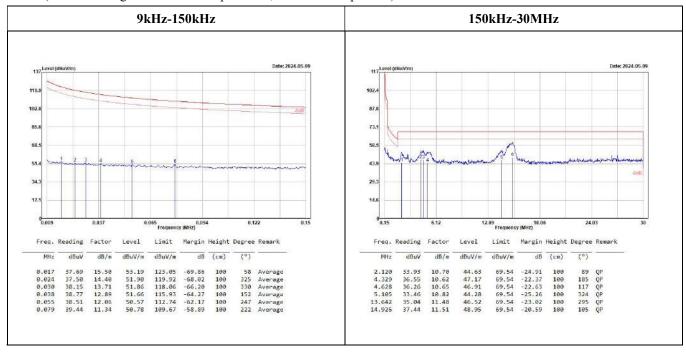
(Pre-scan with three orthogonal axis, and worse case as Y axis.)

Mode 1:

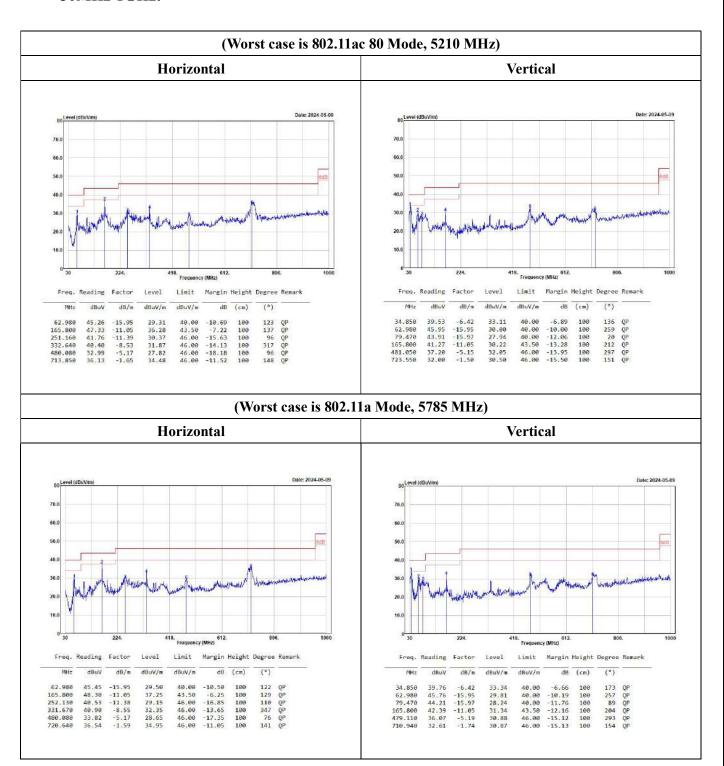
9kHz-30MHz:

(Worst case is 802.11ac 80 mode 5210 MHz)

(Pre-scan using three directional polarities, worst case as parallel)

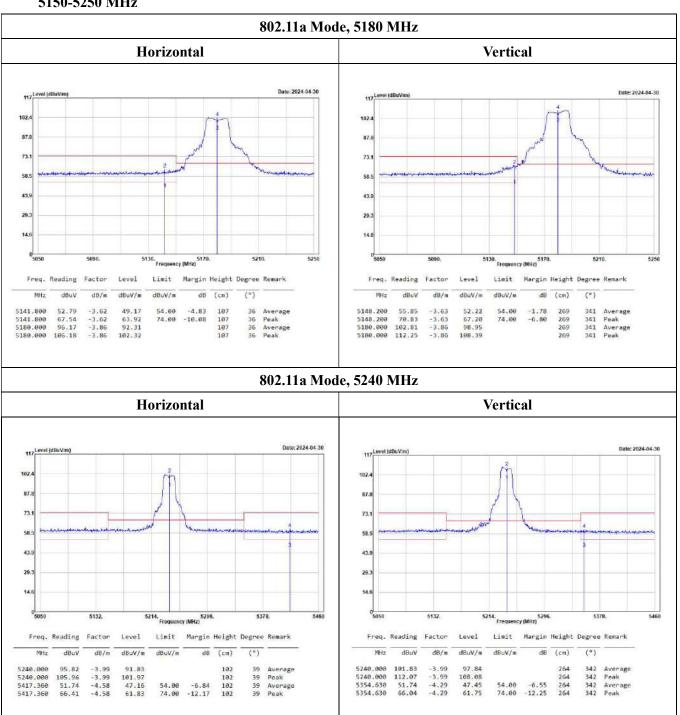


30MHz-1GHz:

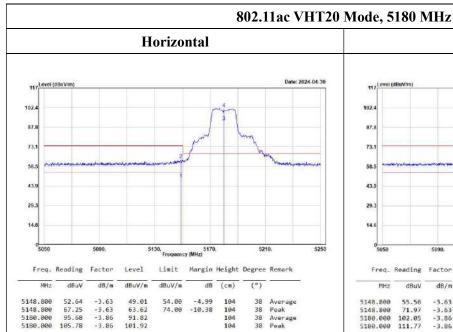


Band-Edge

5150-5250 MHz



No.: RXZ240408022RF02

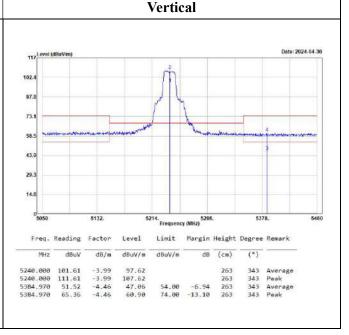


117 Level (dBuV/m 73.1 58.5 43.9 29. Freq. Reading Factor Limit Margin Height Degree Remark dB (cm) (°) dBuV dB/m dBuV/m dBuV/m 269 269 269 269 5148.800 55.56 5148.800 71.97 5180.000 102.05 5180.000 111.77 -3.63 -3.86 -3.86 51.93 68.34 98.19 107.91 340 Average 340 Peak 340 Average 340 Peak

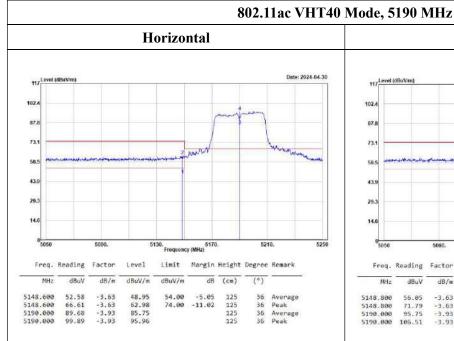
Vertical

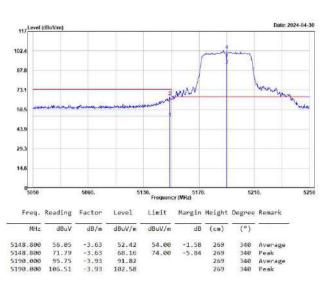
802.11ac VHT20 Mode, 5240 MHz

Horizontal 117 87. 73.1 58. 29. 14.6 5214. Frequency (MHz) Limit Margin Height Degree Remark Freq. Reading Factor Level dBuV dB/m dBuV/m dBuV/m dB (cm) 91.38 105 Average 105.36 51.58 66.24 -3.99 -4.62 -4.62 101.37 46.96 61.62 5246.000 5436.220 105 105 74.00 -12.38



No.: RXZ240408022RF02

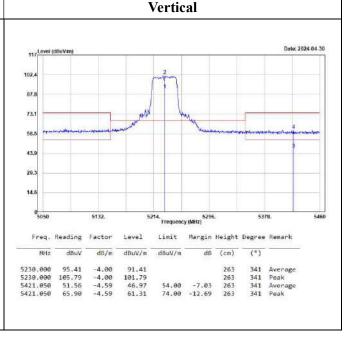


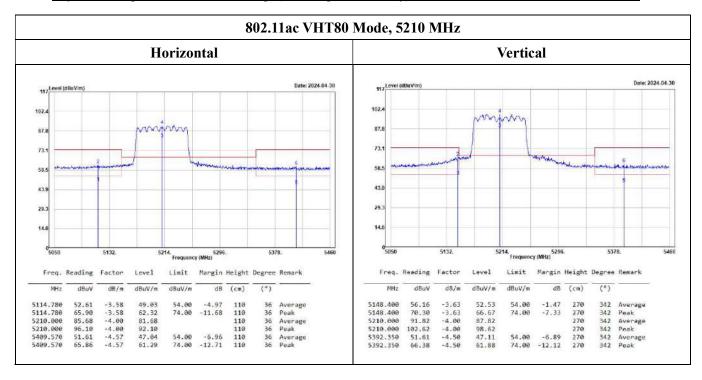


Vertical

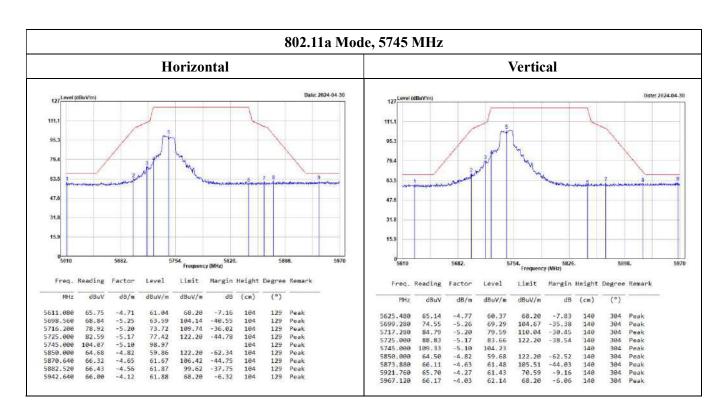
802.11ac VHT40 Mode, 5230 MHz

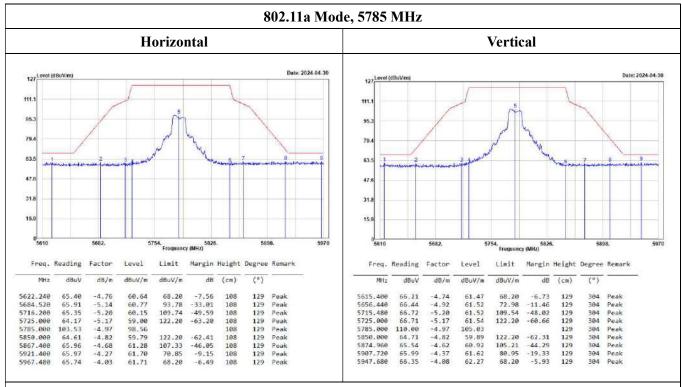
Horizontal Date: 2024-04-30 102 87.5 43.5 29.3 5132. 5214. Frequency (MHz) 5296 Freq. Reading Limit Margin Height Degree Remark (°) dB/m MHz 85,69 38 38 -4.00 -4.30 -4.30 5230.000 99.80 95.80 198



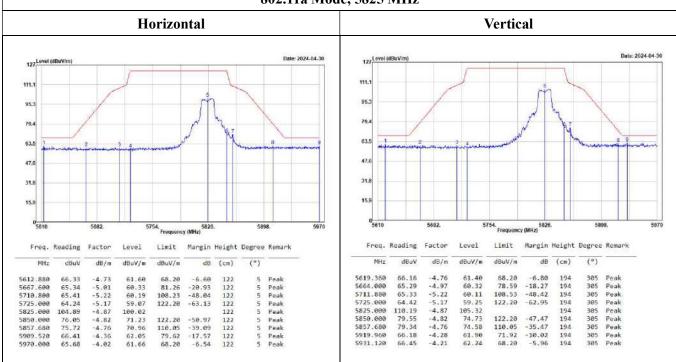


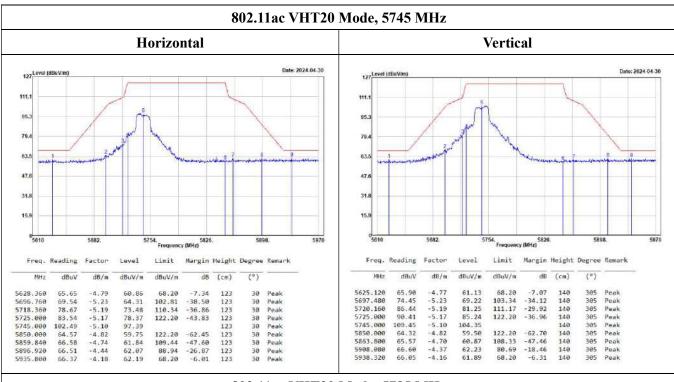
5725-5850 MHz



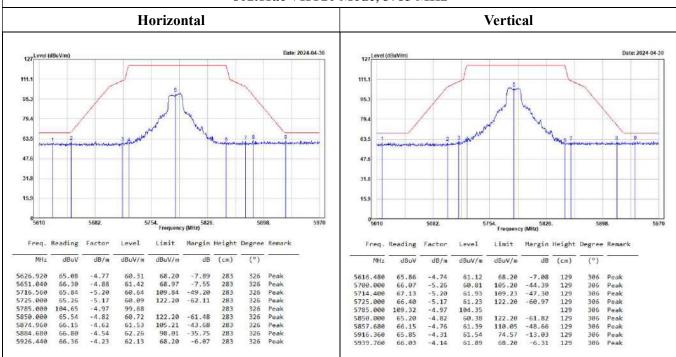


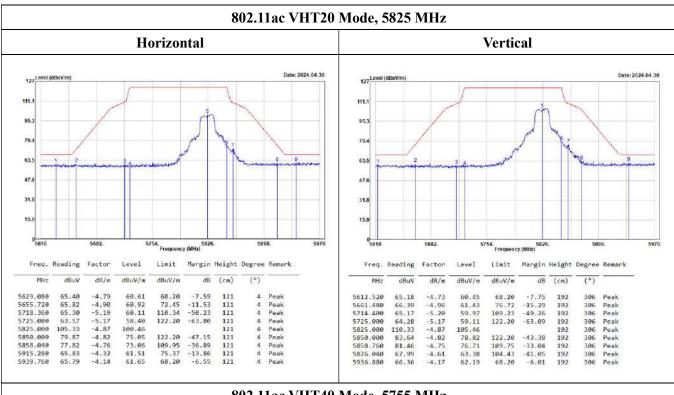
802.11a Mode, 5825 MHz



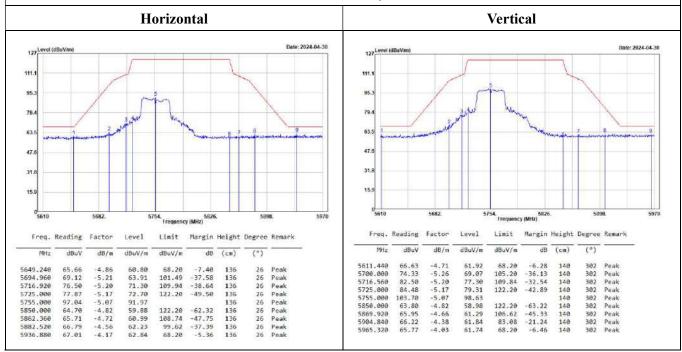


802.11ac VHT20 Mode, 5785 MHz





802.11ac VHT40 Mode, 5755 MHz



(cm)

150 150

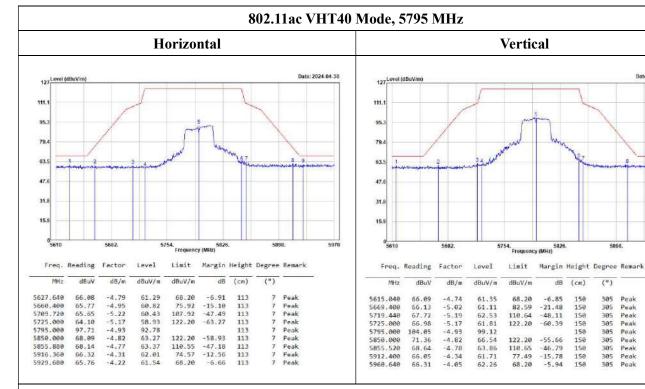
(0)

305 305 305

305

305

Peak Peak Peak Peak Peak Peak Peak Peak



802.11ac VHT80 Mode, 5775 MHz

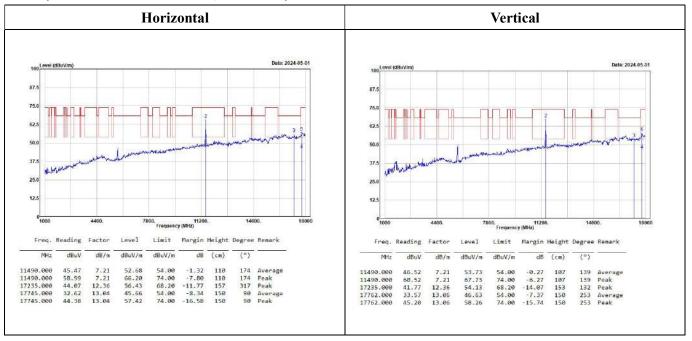
Horizontal Vertical 127 Level (dBuVim) Date: 2024-04-30 Date: 2024-04-30 111. 111. 95. 79. 63.5 63.5 47.0 47. 31.8 15.5 15.5 Frequency (MHz) 5826 Freq. Reading Factor Level Limit Margin Height Degree Remark Freq. Reading Factor Level Limit Margin Height Degree Remark dB/m dBuV/m dBuV/m dB dB/m dBuV/m dB Peak Peak Peak Peak Peak Peak 68.20 101.75 68.20 194.67 72.74 75.81 75.15 100.47 77.87 76.54 Peak Peak Peak Peak Peak -5.26 -5.19 -5.17 -5.00 -4.82 -4.77 70.66 71.47 71.70 92.96 71.13 70.41 -5.21 -31.09 -38.77 5699.280 67.48 -37.19 5695.320 75.87 277 327 152 305 76.66 76.87 97.96 75.95 75.18 -5.19 -5.17 -5.00 -4.82 -4.77 70.62 69.98 95.47 73.05 71.77 327 327 327 327 152 152 152 152 305 305 305 305 305 5718.000 110.24 277 277 277 277 277 277 5719.080 110.54 -39.92 5725.000 5775.000 5850.000 5725.000 5775.000 5850.000 -49.15 5856.240 110.45 -40.04 327 Peak Peak 5856.240 110.45 -38.68 152 305 5876.040 71.02 -4.61 66.41 104.43 -38.02 5875.320 71.49 66.19 -4.62 -4.65 104.96 38.09 152 305 68.20 62.14 68.20

Level = Reading + Factor.

Margin = Level - Limit.

1GHz-18GHz:

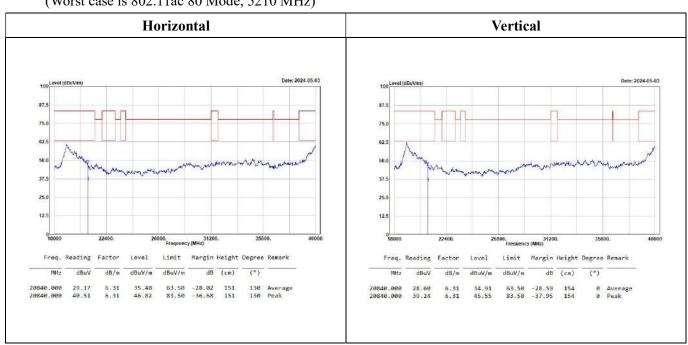
(Worst case is 802.11a Mode, 5745 MHz)



No.: RXZ240408022RF02

18GHz-40GHz:

(Worst case is 802.11ac 80 Mode, 5210 MHz)



Level = Reading + Factor.

Margin = Level - Limit.

 $Factor = Antenna \ Factor + Cable \ Loss - Amplifier \ Gain.$

For 18-40GHz Convert the test distance limit of 3 meters to a limit of 1 meter:

Conversion factor = $20 \log (1 \text{m}/3 \text{m}) = 9.5 \text{ dB}$, Limit = 54+9.5 = 63.50 dBuV/m @ 1 m

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

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Above 1GHz:

5150-5250MHz

802.11a Mode:

								2100	MHz								
			Hori	zonta	l							Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	-
10360.000	55.15	5.16	60.31	68.20	-7.89	105	213	Poak	10350.000	53.32	5.16	58.48	68.20	-9.72	112	133	Poak
15540.000	29.89	9.05	38.94	54.00	-15.06	152	224	Average	15540.000	29.79	9.05	38.84	54.00	-15.16	155	351	Average
15540.000	42.05	9.05	51,10	74.00	-22.98	152	224	Peak	15540.000	41.31	9.05	50.36	74.00	-23.64	155	351	Peak
								5200	MHz								
			Hori	zonta	l							Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
10400.000		5.15	56.68	68.20	-11.52	106		Peak	18480.808	50.02	5.15	55.17	68.20	-13.03	144	132	Peak
15600.000		9,27	39.52 51.26	54.80 74.80	-14.48	151 151	104	Average Peak	15680.808 15680.808	30.43 41.67	9.27	39.70 58.94	54.00	-14.30 -23.06	157 157		Average Peak
			TT .		•			5240	MHz			X 7	٠. ١				
			Hori	zonta	.I							ver	tical				
Freq.	Reading	Factor	Lovel	Limit	Margin	Height	Dogree	Romark	Freq.	Reading	Factor	Lovel	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(0)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	-
10480.000	46,77	5.52	52.29	68.20	-15.91	150	334	Peak	19480.000	45.47	5.52	50.99	68.20	-17.21	150	142	Peak
15720.000		9.52	41.57 52.68	54.00	-12.43 -21.32	156	291	Average Peak	15720.000 15720.000	32.35	9.52	41.87 54.25	54.00 74.00	-12.13 -19.75	153 153		Average
13720.000	45.16	2,26	32,00	74.00	21.32	130	271		13720,000	44.73	3,32	34.23	14.00	12.73	153	300	, ear

Level = Reading + Factor.

Margin = Level-Limit.

802.11ac VHT20 Mode:

			Horiz	zonta	1							Ver	tical				
			11011	301144													
Freq	Reading	Factor	Level	Limit	Margin	Height	Degre	e Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
PH	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		PHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	9
10360.00	53.92	5.16	59.08	68.20	-9.12	169	223	Peak	10350,000	50.46	5.16	55.62	58.20	-12.58	157	121	Peak
15540.00	29,76	9,05	38.81	54.00	-15.19	152	345	Average	15540.000	30.02	9.05	39.07	54.00	-14,93	153		Average
15540.00	41.00	9.05	50.05	74.00	-23.95	152	345	Peak	15540.000	41.52	9.05	50.57	74.00	-23.43	153	56	Peak
								5200	MHz								
			Horiz	zonta	l			3200	IVIIIZ			Ver	tical				
0000010000	W		1.000,000,000					- P. C.	approximate the second								
Freq.	Reading	Factor	Level	Limit	Margin H	wight	Degree	Romark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
10400.000	48.86	5.15	54.01	68.20	-14.19	158	222	Peak	19499.000	48.85	5.15	54.00	68,20	-14.20	157	143	Peak
15680,000	30.24	9.27	39.51	54.00	-14.49	151	133	Average	15600.000		9.27	39.65	54.00		154		Averag
15600.000	41.65	9.27	50.92	74.00	-23.08	151	133	Peak	15600,000	41.70	9.27	50.97	74.00	-23.03	154	357	Peak
								5240	MHz								
			Horiz	zonta	l							Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin H	leight	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dВ	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	-
19489.000	45.95	5.52	51.47	68.20	-16.73	155	177	Peak	10480.000	42.02		47.54	68.20	20 66	155		no ale
15720.000		9.52	41.54	54.00	-12.46	156	164	Average	15720.000	32.17	5.52 9.52	47.54	54.00	-20.66 -12.31	154		Peak Average
15720.000		9.52	53.38	74.00	-20.62	156		Peak	15720.000	44.69	9.52	54.21		-19.79	154		Peak

Level = Reading + Factor.

Margin = Level - Limit.

802.11ac VHT40 Mode:

			Horiz	zonta	ıl							Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	d8/m	dBuV/m	dBuV/m	dB	(cm)	(,)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
10380.000	42.30	5.15	47.45	68.20	-20.75	151	13	Peak	10380.000	41.95	5.15	47.10	68.20	-21.10	155	240	Peak
15570.000		9.16	38.88	54.00	-15.12			Avenage	15570.000		9.16	38.85	54.00	-15.15	158		Average
15570.000	40.73	9,16	49.89	74.00	-24,11	156	0	Peak	15570.000		9.16	50.43		-23.57	158		Peak
								523	30 MHz								
			Horiz	zonta	ıl			52.	30 MHz			Ver	tical				
Freq.	Reading		Horiz		ll Margin	Height	Degree			. Reading	: Factor	Ver	tical	Margin	Height	Degree	Remark
Freq.					Margin	Height (cm)	Degree (°)					100 may	III TO SOUNDS		Height (cm)	Degree (°)	Remark
10171853	dBuV 41.36	Factor	Level dBuV/m 46.79	Limit dBuV/m 68.20	Margin dB	(cm)	(°)	Remark	Freq	z dBuV	d8/m	Level dBuV/m	Limit dBuV/m	dB	(cm)	(°)	7
MHz 19469.000 15699.000	dBuV 41.36 31.73	Factor dB/m 5.43 9.37	Level dBuV/m 46.79 41.10	Limit dBuV/m 68.20 54.00	Margin dB -21.41 -12.98	(cm) 157 151	(°) 193 265	Remark Peak Average	Freq	z dBuV 0 41.88	dB/m 5.43	Level	Limit			(°)	Peak
MHz 9469,992	dBuV 41.36 31.73	Factor dB/m	Level dBuV/m 46.79	Limit dBuV/m 68.20 54.00	Margin dB	(cm) 157 151	(°) 193 265	Remark	Freq 10460.00	z dBuV 0 41.88 0 31.79	d8/m 5.43 9.37	Level dBuV/m 47.31	Limit dBuV/m 68.20 54.00	dB -20.89	(cm) 151 152	(°)	Peak Average

No.: RXZ240408022RF02

802.11ac VHT80 Mode:

			Hori	zonta	1							Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	-
10420.000	41.27	5.24	46.51	68.20	-21.69	152	61	Peak	18420.000	42.43	5.24	47.67	68.20	-20.53	156	73	Peak
15630.000	30.59	9.31	39.98	54.00	-14.10	156	261	Average	15630,000	30.59	9.31	39.90	54.00	-14.10	151	196	Average
15630.000	43.18	9.31	52.49	74.00	-21.51	156	261	Peak	15630,000	41.67	9.31	50.98	74.00	-23.02	151	196	Peak

Level = Reading + Factor.

Margin = Level-Limit.

5725-5850 MHz

802.11a Mode:

			Hori	zonta	ıl								Vei	rtical				
Freq.	Reading	Factor	Level	Limit	Margin M	Height	Degree	Remark		req.	Reading	Factor	Level	Limit	Margin	teight D	egree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(*)			MHz	d8uV	dB/m	dBuV/m	dBuV/m	dβ	(cm)	(°)	
11490.000	45.47	7.21	52.68	54.00	-1.32	110	174	Average	11496	.000	46.52	7.21	53.73	54.00	-0.27	107	139	Average
11490.000		7.21	66.20	74.00	-7.80	110	174		11496		60.52	7.21	67.73	74.00	-6.27	107	139	Peak
17235.000		12.36	56.43 45.66	54.00	-11.77 -8.34	157 158	317 90	Average	17235 17762		41.77	12.36	54.13 46.63	68.20 54.00	-14.07 -7.37	153		Peak Average
17745.000		13.64	57.42		-16.58	150		Peak	17762		45.20	13.86	58.26		-15.74	150		Peak
								578	5 MHz									
			Hori	zonta	ıl								Vei	rtical				
Freq.	Reading	Factor	Level	Limit	Margin	Heigh	t Degr	ee Remark		req.	Reading	Factor	Level	Limit	Margi	ı Height	t Dogra	se Romark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	- (°		-	MHz	dBuV	dB/m	dBuV/m	dBuV/n	ı di	3 (cm)	(*)	
11570.000	44.62	7.20	51.82	54.00	-2.18	112	17	Average								200		
11570.000		7.20	65.50	74.00	-8.58				11576 11576		44.89 58.82		52.09 66.02	54.00 74.00			146	Average Peak
17355.000	40.77	12.40	53.17	68,20	-15.03	156		i Peak	17355				53.26	68,26				l Peak
								582	5 MHz									
			Hori	zonta	l			302	S IVIIIZ				Vei	rtical				
Eren	Reading	Factor	Level	Limit	Mangin	Height	Degre	e Remark	2		Reading	Faster	Level	Limit	Manada	Wall about	Denne	Remark
1.000.00.00		A 22/00/14/00/14/14	5-10/07/2004		STATE OF STATE			CONTRACTOR (CONTRACTOR)					THE STATE OF THE STATE OF					- mandi K
MHZ	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		=}	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
11650.000		7.34	50.18	54.00	-3.82			Average	11650.		44.21	7.34	51.55	54.00	-2.45	287	150	
11650.000 17475.000		7.34	63.84 53.68	74.00 68.20	-10.16 -14.52			Peak Peak	11650. 17475.		58.55 40.94	7.34	65.89 53.26	74.00 68.20	-8.11 -14.94	287 156	150 338	Peak Peak
2,473,000	41.00	14.32	33.00	00.20	14,52	137	2//	ruan	1/4/5.	666	40.94	12.52	53.26	00.20	-14.94	150	228	reak

Level = Reading + Factor.

Margin = Level-Limit.

802.11ac VHT20 Mode:

### Horizontal Freq. Reading Factor Level Limit Margin Height Degree Remark Reading Reading Factor Level Limit Margin Height Degree Remark Reading Reading Factor Level Limit Margin Height Degree Remark Reading Factor Level Limit Margin Height Degree Remark Reading Factor Level Limit Margin Height Degree Remark Reading Reading Factor Level Limit Margin Height Degree Remark Reading Readin	11496.6 11496.8 17235.6	FFreq. 1 Freq. 1 FFreq. 0.000	dBuV 44.61	Factor dB/m 7.21 7.21 12.36 Factor dB/m 7.20	dBuV/m 53.22 68.53 53.42	Limit dBuV/m 54.00 74.00 68.20 tical Limit dBuV/m	dB -0.78 -5.47 -14.78	(cm) 113 113 153	(°) 183 183 214	Average Peak Peak
PHz	T11490.6 11490.6 11490.6 17235.6 Free # 11570.6 11570.6	FFreq. 1 Freq. 1 FFreq. 0.000	dBuV 46.01 61.32 41.06 Reading dBuV 44.61	dB/m 7.21 7.21 12.36 Factor	dBuV/m 53.22 68.53 53.42 Ver	dBuV/m 54.00 74.00 68.20	dB -0.78 -5.47 -14.78	(cm) 113 113 153	(°) 183 183 214	Average Peak Peak
1496.006	I1490.6 I1490.6 I17235.6 IFree I1570.6 I1570.6	e.000 e.000 5.000 Freq. ! NHz e.000	46.01 61.32 41.06 Reading dBuV 44.61	7.21 7.21 12.36	53.22 68.53 53.42	54.80 74.00 68.20	-0.78 -5.47 -14.78 Margin	113 113 153 153	183 183 214 t Degree	Peak Peak Peak
1498.000	11499.8 17235.6 Z	6.000 5.000 Freq. I	61.32 41.06 Reading dBuV 44.61	7.21 12.36 Factor	Ver	74.00 68.20	-5.47 -14.78 Margin	113 153 153	183 214 t Degree	Peak Peak Peak
1498.000	11499.8 17235.6 Z	6.000 5.000 Freq. I	Reading dBuV	7.21 12.36 Factor	Ver	74.00 68.20	-5.47 -14.78 Margin	113 153 153	183 214 t Degree	Peak Peak Peak
### State	Fre	Freq. !	Reading dBuV 44.61	Factor	Vei	'tical	Margin	Height	t Degree	e Remark
Horizontal Freq. Reading Factor Level Limit Margin Height Degree Remark NHz dBuV dB/m dBuV/m dB (cm) (°)	Fre 11570.0 11570.0	MHz 0.000 0.000	dBuV 44.61	dB/m	Level	Limit		-	(°)	
Freq. Reading Factor Level Limit Margin Height Degree Remark MHz dBuV dB/m dBuV/m dBuV/m dB (cm) (°) 1578.688 43.66 7.28 58.86 54.08 -3.14 113 175 Average 1578.688 39.95 12.48 52.35 68.28 -15.85 155 128 Peak 37355.688 39.95 12.48 52.35 68.28 -15.85 155 128 Peak 4 Horizontal Freq. Reading Factor Level Limit Margin Height Degree Remark	11570.e 11570.e	MHz 0.000 0.000	dBuV 44.61	dB/m	Level	Limit		-	(°)	
NHz d8uV d8/m dBuV/m d8uV/m d8 (cm) (°) 1578.080 43.66 7.28 50.86 54.00 -3.14 113 175 Average 1570.080 59.08 7.28 66.28 74.00 -7.72 113 175 Peak 7355.080 39.95 12.48 52.35 68.20 -15.85 155 120 Peak Horizontal Freq. Reading Factor Level Limit Margin Height Degree Remark	11570.e 11570.e	MHz 0.000 0.000	dBuV 44.61	dB/m				-	(°)	
1578.888 43.66 7.28 59.85 54.88 -3.14 113 175 Average 1578.888 59.88 7.20 66.28 74.00 -7.72 113 175 Peak 7355.888 39.95 12.48 52.35 68.20 -15.85 155 128 Peak Horizontal Freq. Reading Factor Level Limit Margin Height Degree Remark	11570.6 11570.6	0.000	44.61		dBuV/m	dBuV/m	dB	(cm)		
1578.600	11570.0	0.000		7 00						
The content of the			CO 40	1.20	51.81	54.00	-2.19	281	140	WASHING
5825 MH Horizontal Freq. Reading Factor Level Limit Margin Height Degree Remark	1/355.6		60.10	7.20	67.30 52.67	74.00	-6.70 -15.53			Peak Peak
Horizontal Freq. Reading Factor Level Limit Margin Height Degree Remark										
Freq. Reading Factor Level Limit Margin Height Degree Remark	Z									
\$1000000000000000000000000000000000000					Vei	tical				
MHz dBuV dB/m dBuV/m dBuV/m dB (cm) (°)	Fre	Freq.	Reading	Factor	Lovel	Limit	Margin	Heigh	t Degre	a Remark
	- 1	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
1650.000 42.01 7.34 49.35 54.00 -4.65 104 167 Average	11650.0	0.000	44.68	7.34	51.94	54.00	-2.06	304	146	Averag
1650.000 57.44 7.34 64.78 74.00 -9.22 104 167 Peak 7475.000 48.67 12.32 52.99 68.20 -15.21 152 3 Peak	11650.0	0.000	59.93	7.34	67.27	74.00	-6.73	304	146	Peak
		5.000	40.78	12.32	53.10	68,20	-15.10	159	216	Peak
	17475.0									

Level = Reading + Factor.

Margin = Level - Limit.

802.11ac VHT40 Mode:

								5755	MHz								
			Hori	zonta	l							Vei	rtical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	e Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
11510.000	36.19	7.22	43.41	54.00	-10.59	135	-	Average	11510.000	35.29	7.22	42.51	54.00	-11.49	161	143	Average
11510.000		7.22	57.84	74.80	-16.16	135	6		11510.000	49.18	7.22	56.40	74.00	-17.60	161	143	Peak
17265.000		12.35	54.60		-13.60	156		Peak	17265.000	41.85	12.35	54.20	68.20	-14,00	152	324	Peak
								5505	MII								
			Hori	zonta	ıl			5795	MHz			Vei	rtical				
Freq.	Reading	Factor	Hori	zonta		Height	Degree		Y24 2	Reading	Factor	Vei	555 56-5	Margin H	Height	Degree	Remark
Freq.	- 27	Factor			Margin	Height (cm)	Degree (°)		Y24 2	Reading dBuV	Factor dB/m		555 56-5		Height (cm)	Degree (°)	Remark
	dBuV		Lovel	Limit	Margin		. 3.	» Romank	Freq. 	dBuV 35.95	dB/m 7.20	Level dBuV/m 43.15	Limit dBuV/m 54.00	dB -10.85	(cm) 159	(°)	Average
MHz	dBuV 35.11	dB/m 7.20 7.20	Lovel	Limit dBuV/m	Margin dB	(cm) 156 156	(°)	o Rosank Average Poak	Freq. 	dBuV 35.95 50.30	dB/m 7,20 7,20	dBuV/m 43.15 57.50	Limit dBuV/m 54.00 74.00	dB -10.85 -16.50	(cm) 159 159	(°)	Average Peak
MHz 11590.000	dBuV 35.11 49.85	dB/m 7.20	Lovel dBuV/m 42.31	Limit dBuV/m 54.00 74.00	Margin dB	(cm)	(°)	» Romark Average	Freq. 	dBuV 35.95	dB/m 7.20	Level dBuV/m 43.15	Limit dBuV/m 54.00 74.00	dB -10.85	(cm) 159	(°)	Average
MHz 11590.000 11590.000	dBuV 35.11 49.85	dB/m 7.20 7.20	Lovel dBuV/m 42.31 57.05	Limit dBuV/m 54.00 74.00	Margin dB -11.69 -16.95	(cm) 156 156	(°)	o Rosank Average Poak	Freq. 	dBuV 35.95 50.30	dB/m 7,20 7,20	dBuV/m 43.15 57.50	Limit dBuV/m 54.00 74.00	dB -10.85 -16.50	(cm) 159 159	(°)	Average Peak

No.: RXZ240408022RF02

802.11ac VHT80 Mode:

								5775	MHz								
			Horiz	zonta	l							Ver	tical				
Freq.	Reading	Factor	Lovel	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	-
11550.000	30.34	7.21	37.55	54.00	-16.45	156	0	Average	11550,000	30.86	7.21	38.07	54.00	-15.93	157	134	Average
11550.000	41.23	7.21	48.44	74.00			0	Peak	11550.000	41.64	7.21	48.85	74.00	-25.15	157	134	Peak
17325.000	42.12	12.37	54.49	68,20	-13.71	151	54	Peak	17325.000	40.51	12.37	52.88	68.20	-15.32	155	120	Peak

Level = Reading + Factor.

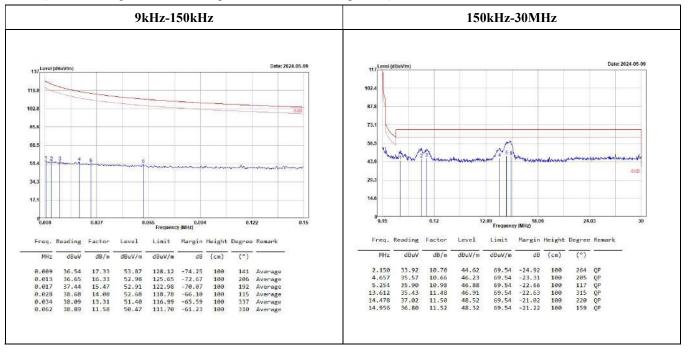
Margin = Level-Limit.

Mode 2:

9kHz-30MHz:

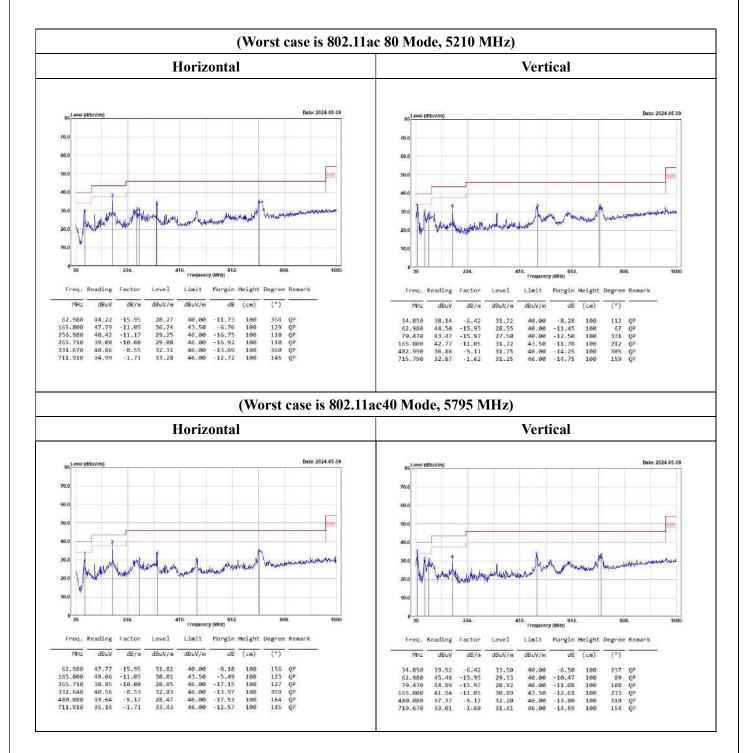
(Worst case is 802.11ac 40 mode 5795 MHz)

(Pre-scan using three directional polarities, worst case as parallel)



No.: RXZ240408022RF02

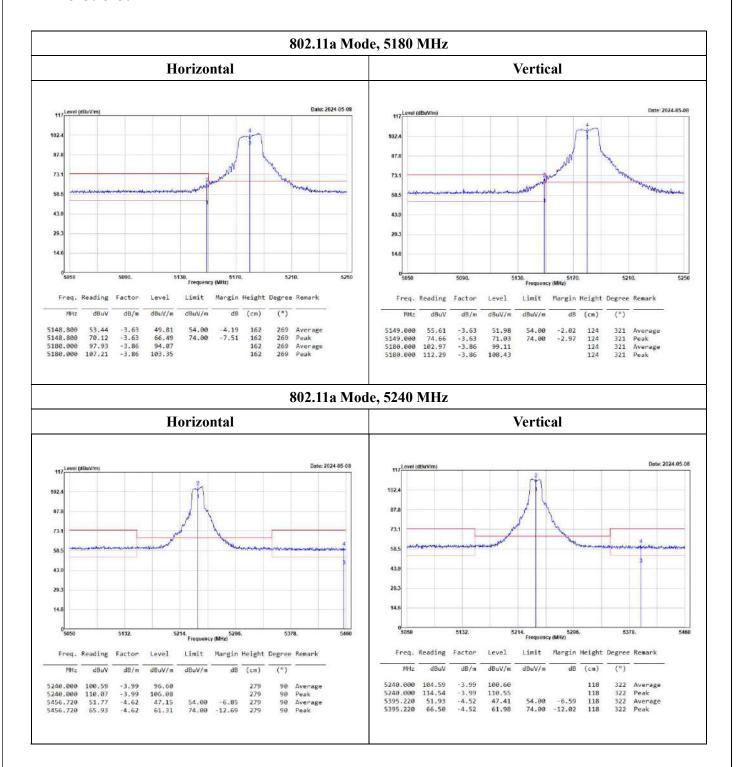
30MHz-1GHz:



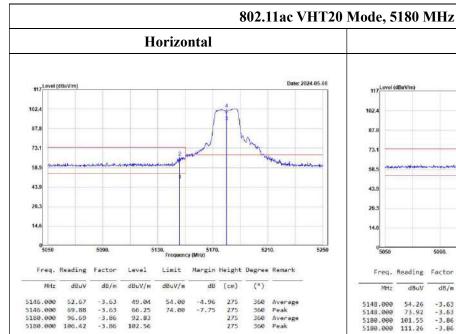
No.: RXZ240408022RF02

Band-Edge

5150-5250 MHz



No.: RXZ240408022RF02



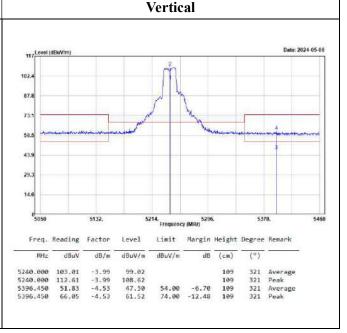
102.56

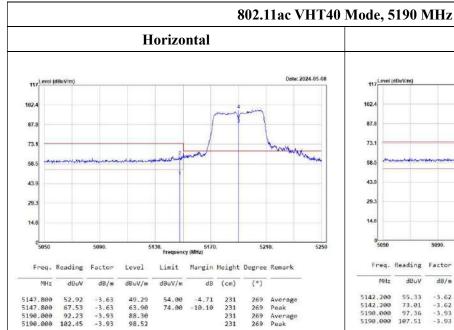
117 Level (dBuV/m 102 73.1 58.5 43. 29. 5210. Limit Margin Height Degree Remark dB/m dBuV/≡ dB (cm) -3.63 -3.63 -3.86 -3.86 50.63 70.29 97.69 107.40 321 Average 321 Peak 321 Average 321 Peak 5148.000 -3.37 -3.71 5148.000 123 123 123

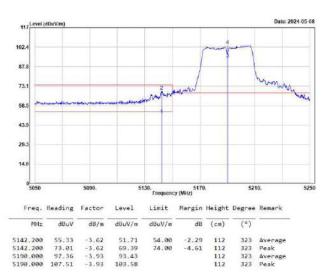
Vertical

802.11ac VHT20 Mode, 5240 MHz

Horizontal Date: 2024-05-08 117 Level (dBuV/m) 102 87.8 73. 58.5 43.5 5132 Freq. Reading Factor Level Margin Height Degree Remark Limit dB/m dBuV/m dBuV/m (cm) 95.36 104.97 47.00 61.75 5240.000 5240.000 5438.270 5438.270 99.35 108.96 51.62 66.37 -3.99 -3.99 -4.62 -4.62 300 300 300 92 Average 92 Peak 92 Average 92 Peak 74.00 -12.25 300



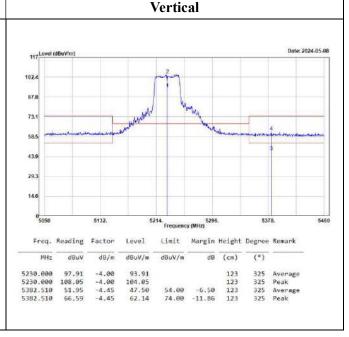


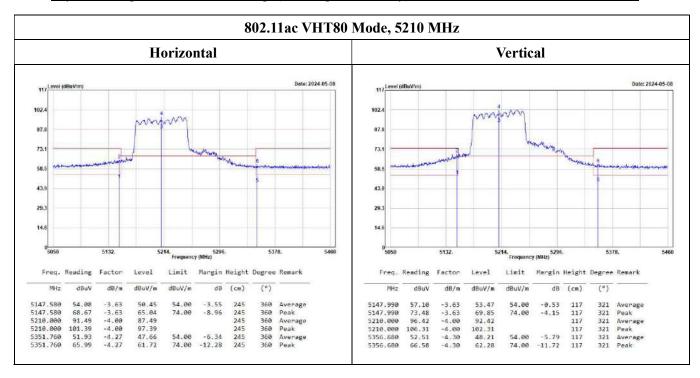


Vertical

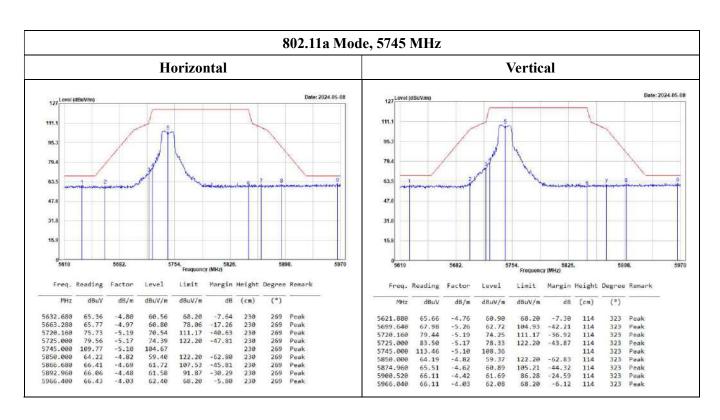
802.11ac VHT40 Mode, 5230 MHz

Horizontal Date: 2024-05-08 102.4 87.8 73.1 43.9 29.3 14.5 5132 Freq. Reading Factor Limit Margin Height Degree Remark dB/m dBuV/m (°) -4.00 -4.00 90.12 100.29 Average Peak 104.29 51.78 66.81 5230.000 360 5428.020 -4.61 -4.61





5725-5850 MHz



323 Peak

323

323

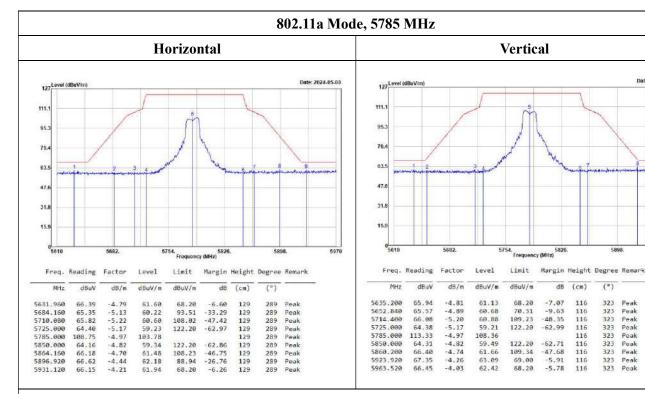
323 323 323

323

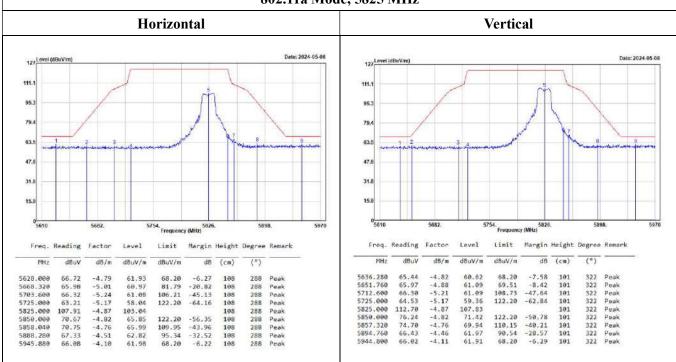
323 Peak

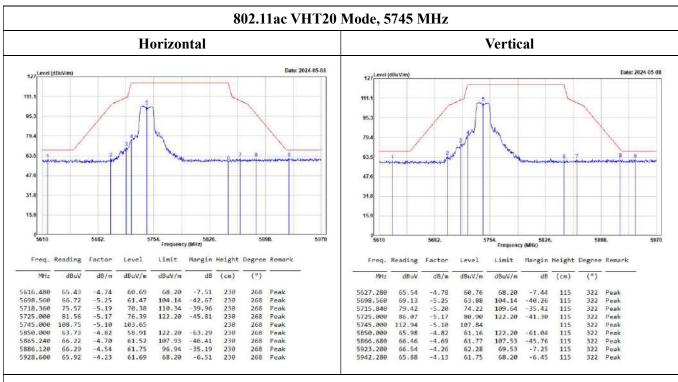
116

Peak Peak Peak Peak Peak Peak

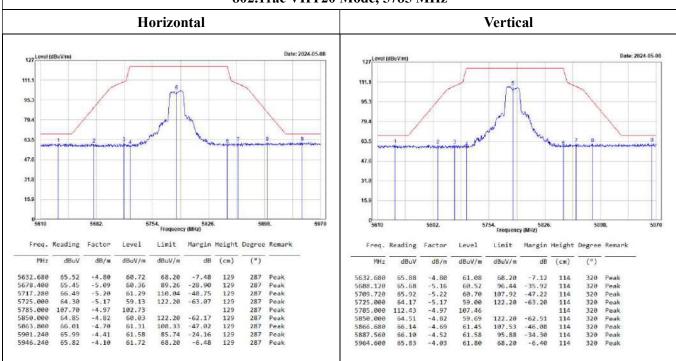


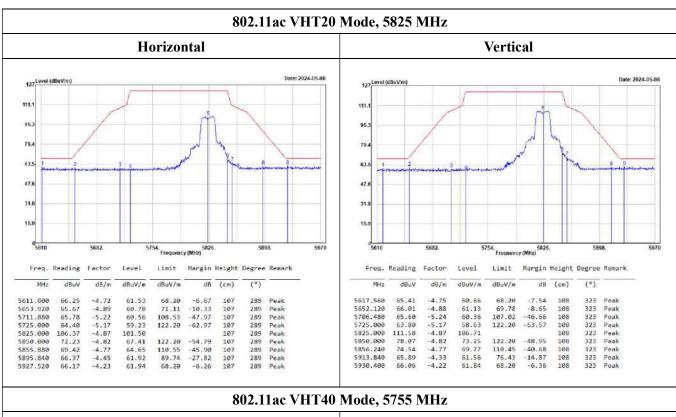
802.11a Mode, 5825 MHz



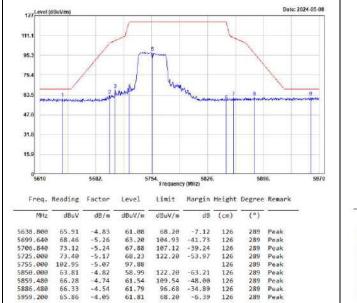


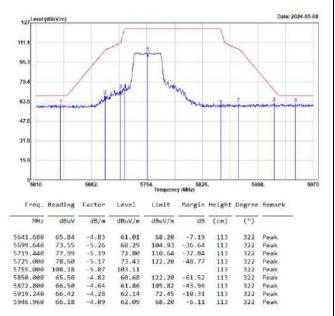
802.11ac VHT20 Mode, 5785 MHz



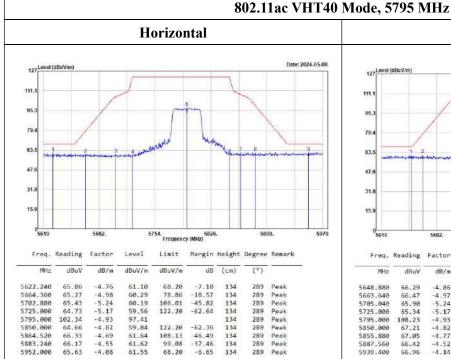


Horizontal | 177_Level (dBuVim) | Date: 2024-05-08 | 177_Level (dBuVim) | 177_Level (dBuVim)





Vertical



Vertical 127 Level (dBuVim) 5754. Frequency (MHz) Reading Margin Height Degree Remark dBuV dB (°) dB/m dBuV/m dBuV/≋ (cm) 68.20 78.33 320 -4.86 -4.97 -5.24 -5.17 -4.93 -4.82 -16.83 -45.95 -62.03 66.47 61.50 121 320 Peak 121 121 121 121 121 121 320 320 320 320 320 Peak Peak Peak Peak Peak 65.90 65.34 108.23 67.21 60.66 60.17 106.61 122.20 103.30 62.39 122.20 67.05 -4.77 62.28 110.55 -48.27 320 66.42 61.90 95.88 -33,98 121 320 -4.14 62.82 68.20

802.11ac VHT80 Mode, 5775 MHz

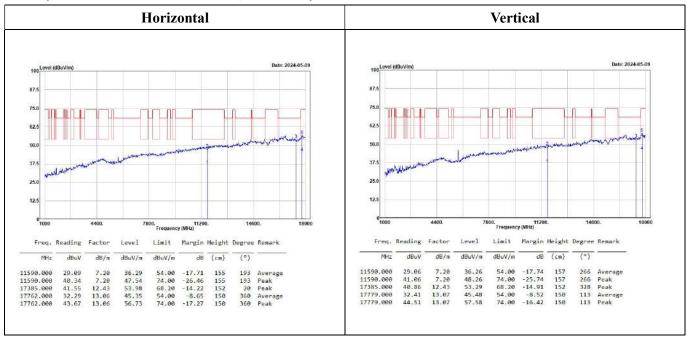
Horizontal Vertical 127 Level (dBuV/m Date: 2024-05-08 127 Level (dBu 111 95.3 79. 63. 47.6 31. 31.8 15.0 15. Frequency (MHz) 5826. Frequency (MHz) Freq. Reading Factor Level Limit Margin Height Degree Remark Freq. Reading Factor Level Limit Margin Height Degree Remark dB/m dBuV/m dBuV/m dB MHy dBnV dB/m dBuV/m dBuV/m dB (0) 5645.280 5700.000 5705.760 66.23 69.67 71.76 69.03 -6.82 -40.79 -40.29 68.20 102.28 109.54 -6.56 -34.42 323 323 68.20 105.20 287 287 287 Peak Peak Peak Peak Peak Peak Peak Peak 61.38 64.41 66.52 63.86 95.87 65.02 65.24 62.46 62.59 125 125 125 125 125 125 125 125 125 125 Peak Peak Peak Peak Peak Peak Peak Peak -4.85 -5.26 -5.24 -5.17 -5.00 -4.82 -4.78 -4.58 -4.23 -5.22 -5.20 -5.17 73.08 75.66 74.83 122 5696.040 5715.480 67.86 70.46 106.81 -39.88 -52.54 122 323 5725.000 5775.000 5850.000 5854.800 5880.000 122.20 -58.34 287 5725.000 122.20 122 323 287 287 287 287 287 287 -5.00 -4.82 -4.77 -4.61 -4.13 5775.000 5850.000 5856.240 5876.040 101.02 69.72 69.63 63.71 122 122 122 122 323 323 323 323 323 122.20 111.26 101.49 68.20 -57.18 -46.02 -39.03 -5.61 122.20 110.45 104.43 -52.48 -40.82 -40.72 5926.440 66.82 5941.920 66.02 61.89 68.20 -6.31

Level = Reading + Factor.

Margin = Level - Limit.

1GHz-18GHz:

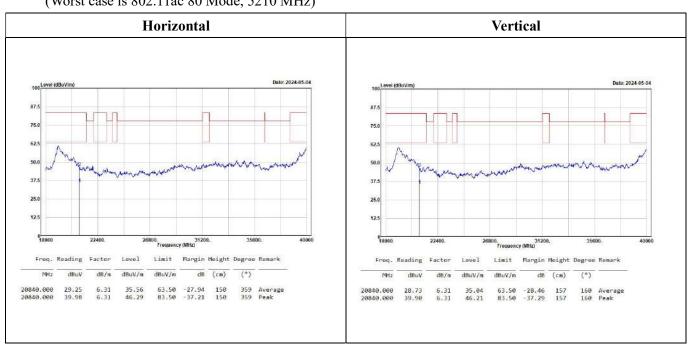
(Worst case is 802.11ac 40 Mode, 5795 MHz)



No.: RXZ240408022RF02

18GHz-40GHz:

(Worst case is 802.11ac 80 Mode, 5210 MHz)



Level = Reading + Factor.

Margin = Level-Limit.

 $Factor = Antenna \ Factor + Cable \ Loss - Amplifier \ Gain.$

For 18-40GHz Convert the test distance limit of 3 meters to a limit of 1 meter:

Conversion factor = $20 \log (1 \text{m}/3 \text{m}) = 9.5 \text{ dB}$, Limit = 54+9.5 = 63.50 dBuV/m @ 1 m

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) Page 59 of 109

Above 1GHz:

5150-5250MHz

802.11a Mode:

								5180	MHz								
			Horiz	zonta	l							Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin H	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	d8	(cm)	(°)	
10360.000		5.16	59.68	68.20	-8.52	243		Peak	10360.000	52,56	5.16	57.72	68.20	-10.48	108		Peak
15540.000 15540.000	29.71 42.22	9.05 9.05	38.76 51.27	54.00 74.00	-15.24 -22.73	154 154	36 0 36 0	Average Peak	15540.000 15540.000	29.66 41.67	9.05 9.05	38.71 50.72	54.00 74.00	-15.29 -23.28	151 151		Average Peak
								5200	MHz								
			Horiz	zonta	l							Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Dogree	Romank	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19489.000	53.16	5.15	58.31	68.20	-9.89	256	309	Peak	10400.000	53.60	5.15	58.75	68.20	-9.45	255		Peak
15600.000 15600.000	30.14 41.72	9.27 9.27	39.41 50.99	74.00	-14.59 -23.01	153 153	156 156	Average Peak	15600.000 15600.000	30.21 41.51	9.27 9.27	39.48 50.78	54.00 74.00	-14.52 -23.22	155 155		Averag Peak
								5240	MHz								
			Horiz	zonta	l							Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Romark
PHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19480.000		5.52	59.66	68.20	-8.54	253	290		18480.000	53.69	5.52	59.21	68.20	-8.99	204		Peak
15720.000 15720.000		9.52 9.52	41.49 53.70	54.00 74.00		157 157	68 68		15720.000 15720.000		9.52 9.52	41.37 52.81	54.00 74.00	-12.63 -21.19	156 156	86 86	Averag Peak

Level = Reading + Factor.

Margin = Level-Limit.

802.11ac VHT20 Mode:

								5180	MHz								
			Hori	zonta	l							Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	e Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
10350.000	47.85	5.16	53.01	68.20	-15.19	158	169	Peak	19369.000	45.39	5.16	50.55	68.20	-17.65	156	39	Peak
15540.000		9.85	39.72 50.55	54.00 74.00	-14.28 -23.45		184	Average Peak	15540.000 15540.000		9.05	39.56 50.17	54.00 74.00	-14.44 -23.83	155 155	336	Averag Peak
	17177			6.7055	777 507		534			184400	111150	37.50			•	-	1 - 44
								5200	MHz								
			Hori	zonta	l							Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	e Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
PH2	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		PHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
18489.000		5.15	53.29	68.20			360		18489.008	45.56	5.15	50.71	68.20	-17.49	154	114	Peak
15600.000		9.27	39.86 50.93	54.00 74.00	-14.14 -23.07		17		15680.000 15680.000	30.25 41.58	9.27	39.52 50.85	54.00 74.00	-14.48 -23.15	153 153	118 118	Average
								5240	MHz								
			Horiz	zonta	l							Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHZ	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	-
10480.000	50.52	5.52	56.04		-12.16	158	196	Peak	19480.000		5.52	54.80		-13.40	159		Peak
15720.000 15720.000	32.01 43.84	9.52	41.53 53.36		-12.47 -20.64	151	85 85	Average Peak	15720.000 15720.000		9.52	41.40 53.60	74.00	-12.60 -20.40	152 152		Averag Peak
									0530207.0755				(1)155577		700		

Level = Reading + Factor.

Margin = Level-Limit.

802.11ac VHT40 Mode:

			Horn	zonta	ıl							Ver	tical				
Freq	. Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MH	z dBuV	dB/m	dBuV/m	dBuV/m	dΒ	(cm)	(")		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(0)	
10380.00	9 41.22	5.15	46.37	68.20	-21.83	150	25	Peak	10380.000	41.64	5.15	46.79	68 20	-21.41	153	6	Peak
15570.00	29.47	9.16	38.63	54.00	-15.37	154	99	Average	15570.000	29.53		38.69	54.00	-15.31	158		Average
15570.00	0 40.51	9.16	49.77	74.00	-24.23	154	99	Peak	15570.000	41.32	9.16	50.48	74.00	-23.52	158	192	Peak
			Hori	zonta	ıl							Ver	tical				
Freq	Reading	Factor	Level	Limit	Margin	Height	Degree	Remank	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MH	dBuV	d8/m	dBuV/m	d∂uV/m	dB	(cm)	(")		MHz	dBuV	d8/m	d8uV/≡	d8uV/m	dB	(cm)	(°)	
10460.000	41.11	5.43	46.54	68.20	-21.66	154	121	Peak	10460.000	42.24	5.43	47.67	68.20	-20.53	151	41	Peak
15690.000	31.63	9.37	41.00	54.00	-13.00	151	344	Average	15690.000	31.66	9.37	41.03		-12.97	156		Average
15690.000	44.67	9.37	54.04	74.00	-19,96	151	344	Peak	15690.000	43.87	9.37	52.44	74.00	-21.56	156	360	Peak
107	- Contraction	Factor	GENERAL CON	Limit	Margin	- Commission			37-5-65	100000	distance	Leve1	1955/0080		0.000	0007-04	Remark

No.: RXZ240408022RF02

802.11ac VHT80 Mode:

0.880 38.69 9.31 48.80 54.80 -14.80 155 295 Average 15538.880 38.48 9.31 39.79 54.80 -14.21 152 312 580 1538.880 38.48 9.31 51.65 74.80 -22.54 152 312 580 1538.880 38.48 9.31 51.65 74.80 -22.54 152 312 580 1538.880 38.480 38.480 1538.880 38.480 1538.880 1538.880 38.480 1538.880 153				Horiz	zonta	l							Ver	tical				
0.000 41.16 5.24 46.40 68.20 -21.80 152 161 Peak 19420.000 41.04 5.24 46.28 68.20 -21.92 154 216 Peak 19530.000 30.69 9.31 40.00 54.00 -14.21 152 312 Av. 1530.000 30.69 9.31 40.00 54.00 -14.20 155 295 Avorage 19530.000 42.15 9.31 54.00 42.15 73.00 73.000	Freq.	Reading	Factor	Lovel	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
9.000 41.15 5.24 46.40 68.20 721.80 152 151 Peek 1558,6808 38.48 9.31 39.79 54.69 -14.21 152 312 Av. 5.000 30.69 9.31 40.00 54.60 -14.60 155 295 Avorage 1558,6808 38.48 9.31 39.79 54.69 -12.21 152 312 Av. 5.000 30.69 9.31 40.00 54.60 -12.21 152 312 Av. 5.000 30.69 9.31 40.00 54.60 -12.21 152 312 Av. 5.000 30.69 30.69 30.69 30.69 30.48 9.31 30.79 54.60 -12.21 152 312 Av. 5.000 30.69 30.69 30.69 30.69 30.48 9.31 30.79 54.60 -12.21 152 312 Av. 5.000 30.69 30.69 30.48 9.31 30.79 54.60 -12.21 152 312 Av. 5.000 30.69 30.69 30.69 30.48 9.31 30.79 54.60 -12.21 152 312 Av. 5.000 30.69 30.69 30.69 30.69 30.69 30.69 30.69 30.69 30.69 30.69 30.60	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/π	dBuV/m	dB	(cm)	(,)	
	18420.000 15630.000									15630.000	30.48	9.31	39.79	54.00	-14.21	152	312	Averag
0.000 41.74 9.31 51.05 74.00 -22.95 155 295 Peak	15630.000	41.74	9.31	51.05		-22.95	155			15630.000	42.15	9.31	51.46	74.00	-22.54	152	312	Peak

Level = Reading + Factor.

Margin = Level-Limit.

5725-5850MHz

802.11a Mode:

								5745	MHz								
			Hori	zonta	<u>l</u>							Ver	tical				
Freq.	Reading	Factor	Level Limit Margin Height Degree Remark						Freq.	Freq. Reading Factor				Margin	e Remark		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		FHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	-
11490.000	31.58	7.21	38.79	54.00	-15.21	156	227	Average	11490.000	30.92	7.21	38.13	54.80	-15.87	158	0	Average
11490.000 17235.000		7.21	51.26 54.01	74.00 68.20	-22.74 -14.19	156 156	227 115	Peak Peak	11490.000 17235.000	42.70	7,21 12,36	49.91 53.12	74.00 68.20	-24.09 -15.08	158 154		Peak Peak
1,133,000		00000	34.02		*****	130			17233.000	40.70	12.30	33.11	00.20	-13.00	***	đ	FEGR
								5785	MHz								
			Hori	zonta	l				Vertical								
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	e Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
PHz	dBuV	dB/m	dBuV/m	dBuV/m	- dB	(cm)	(°)	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	-
11570.000	31.99	7.20	39.19	54.00	-14.81	151	267	Average	11570.000	31.09	7.20	38.29	54.00	-15.71	157	2	Average
11570.000		7.20	49.75 53.17	74.00			267 159	Peak	11570.000 17355.000	42.43		49.63 52.83	74.00	-24.37 -15.37	157 154	2	Peak Peak
								5825	MHz								
			Hori	zonta	l				II.			Ver	tical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		PHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
11650.000	32.13	7.34	39.47	54.00	-14.53	154	225	Average	11650.000	31.28	7.34	38,62	54.80	-15,38	154		Average
11650.000 17475.000	41.56	7.34	48.90 53.51	74.00 68.20	-25.10 -14.69	154 155	225 162	Peak Peak	11650.000 17475.000	42.23	7.34	49.57 53.36	74.80 68.20	-24.43 -14.84	154 150	347	Peak Peak
									2,3,5,000	*****	*****	22.30	55.20	17.04	440	***	

Level = Reading + Factor.

Margin = Level-Limit.

802.11ac VHT20 Mode:

								<u> </u>	5 MHz										
			Hori	zonta	l							Ver	tical						
Freq. Reading Factor Level Limit Margin Height Degree Remark								Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark		
FHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)			
11490.000	30.71	7.21	37.92	54.00	-16.08	155	13	Average	000000000000000000000000000000000000000										
11490.000	43.08	7.21	50.29	74.00	-23.71	155	13	Peak	11490.000 11490.000	30.58 40.85	7.21	37.79 48.06	54.00 74.00	-16.21 -25.94	154 154		Average Peak		
17235.000	40.79	12.36	53.15	68.20	-15.05	152	36	Peak	17235.000	41.21	12.36	53.57	68.20	-14.63	157	253	Peak		
								578:	5 MHz										
			Hori	zonta	l					Vertical									
Freq.	Reading	Factor	Lovel	Limit	Margin	Height	Degree	Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Romark		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)			
11570.000	31.98	7.20	38.28	54.00	-15.72	156	324	Average	11570.000	30.86	7.20	38.06	54.90	-15.94	157	172	Average		
11570.000	42.76	7.20	49.96	74.00	-24.04	156	324	Peak	11570.000	41.88	7.20	49.08	74.00	-24.92	157	172	Peak		
17355.000	41.00	12.40	53.40	68.20	-14.80	152	247	Peak	17355.000	40.49	12.40	52.89	68.20	-15.31	152	00	Peak		
								5825	5 MHz										
			Hori	zonta	l				Vertical										
Freq	. Reading	Factor	Level	Limit	Margin	Heigh	t Degre	e Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	: Remark		
MH	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	дв	(cm)	(°)			
11650.00	31.19	7.34	38.53	54.00	-15.47	154		Average	11650.000	30.69	7.34	38.03	54.00	-15.97	150	342	Averag		
11650.00	41.23	7.34	48.57	74.00	-25.43	154	0	Peak	11650.000		7.34	48.45	74.00				Peak		
17475.00	41.64	12.32	53.96	68.20	-14.24	157	160	Peak	17475.000	40.98	12.32	53.30	68.20	-14.90	155	297	Peak		

Level = Reading + Factor.

Margin = Level-Limit.

802.11ac VHT40 Mode:

			Hori	zonta	<u>l</u>							Ver	tical				
Freq.	. Reading	Factor	Level	Limit	Margin	Height	Degree	e Remark	Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Romark
PH	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
11510.000		7,22	36.43	54.00				Average	11510.000	29.21	7.22	36.43	54.00	-17.57	156		Average
11510.000		7.22	48.31	74.00				Peak	11510.000	41.12	7.22	48.34	74.00	-25.66	156		Peak
17265.000	41.57	12.35	53.92	68.20	-14.28	152	9	Peak	17265.000	41.58	12.35	53.93	68.20	-14.27	151	301	Peak
								5795	MHz								
			Hori	zonta	ı			5795	MHz			Ver	tical				
Freq.	Reading	Factor	Hori	Total Company	l Margin	Height	Degree			Reading	Factor	Ver	Manager 1	Margin H	H eight	Degree	Remark
Freq.		Factor dB/m	VOIC - 101	Total Company	Margin	Height (cm)	Degree (°)			Reading dBuV	Factor dB/m				Height (cm)	Degree (°)	Remark
			Level	Limit	Margin		(°)		Freq.			Level	Limit		ALC: March	(*)	Remark
MHz	d8uV 29.09	d8/m	Level dBuV/m	Limit dBuV/m	Margin dB	(cm)	(°)	Remark	Freq.	dBuV	dB/m	Level	Limit dBuV/m 54.00	dB	(cm)	(°) 266 266	Average Peak
MHz 11590.000	d8uV 29.09 40.34	dB/m 7.20	dBuV/m 36.29 47.54 53.98	Limit dBuV/m 54.80	Margin d8	(cm)	(°)	Remark	Freq. MHz 11590.000 11598.000 17385.000	dBuV 29.05 41.06 40.86	dB/m 7.20 7.20 12.43	dBuV/m 36.26 48.26 53.29	Limit dBuV/m 54.00 74.00 68.20	dB -17.74 -25.74 -14.91	(cm) 157 157 152	(°) 266 266 328	Average Peak Peak
MHz 11590.000 11590.000	d8uV 29.09 40.34 41.55 32.29	dB/m 7.20 7.20	Level dBuV/m 36.29 47.54	Limit dBuV/m 54.00 74.00 68.20 54.00	Margin d8 -17.71 -26.46	(cm) 155 155	(°) 193 193 20	Remark Average Peak Peak Average	Freq. MHz 11590.000 11590.000	d8uV 29.06 41.06	dB/m 7.20 7.20	Level dBuV/m 36.26 48.26	Limit dBuV/m 54.00 74.00 68.20 54.00	dB -17.74 -25.74	(cm) 157 157	(°) 266 266 328 113	Average Peak

No.: RXZ240408022RF02

802.11ac VHT80 Mode:

			Hori	zonta	1				Vertical									
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Romark	Freq. F	Reading	Factor	Level	Limit	Margin Height Degree			Remark	
PHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(*)		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)		
11550.000	29.18	7.21	36.39	54.00	-17.61	159	185	Average	11550.000		7.21	36.61	54.00	-17.39	153		Averag	
11550,000	41.33	7.21	48.54	74.80	-25.46	159	185	Peak	11550.000		7.21	47.36	74.00	-26.64	153		Peak	
17325.000	40.88	12.37	53.25	68.20	-14.95	154	117	Peak	17325.000	41.17	12.37	53.54	68.20	-14.66	155	76	Peak	

Level = Reading + Factor.

Margin = Level-Limit.