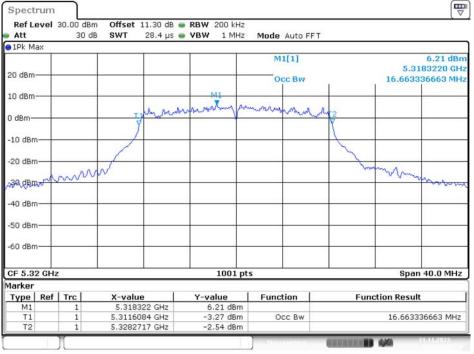


Date: 21.NOV.2023 16:22:30

# 5320MHz



Date: 21.NOV.2023 16:24:04

### IEEE 802.11ac VHT20 Mode / 5250 ~ 5350MHz

#### **5260MHz** -Spectrum Offset 11.30 dB • RBW 200 kHz Ref Level 30.00 dBm Mode Auto FFT Att 30 dB SWT 28.4 µs 🍅 **VBW** 1 MHz 1Pk Max 5.88 dBm 5.2609990 GHz M1[1] 20 dBm Occ Bw 17.822177822 MHz 10 dBm 0 dBm -10 dBm -20 dBm -agordam-V -40 dBm -50 dBm 60 dBm CF 5.26 GHz 1001 pts Span 40.0 MHz Marker Type Ref Trc X-value 5.260999 GHz Y-value Function **Function Result** 5.88 dBm

2.72 dBm

-2.69 dBm

Occ Bw

No.: RXZ231115070RF03

17.822177822 MHz

Date: 4.DEC.2023 09:19:41

T2

5.2510889 GHz

5.2689111 GHz

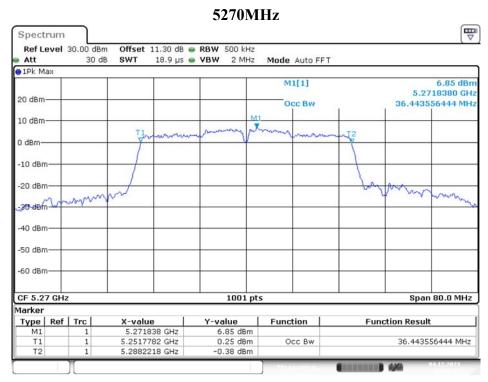
#### 5300MHz -Spectrum Ref Level 30.00 dBm Offset 11.30 dB @ RBW 200 kHz Att SWT 28.4 µs 🍅 VBW 30 dB Mode Auto FFT 1Pk Max M1[1] 6.23 dBr 5.2989610 GHz 20 dBm Occ Bw 17.782217782 MHz 10 dBm 0 dBm--10 dBm -20 dBm nemen 30 dBm -40 dBm -50 dBm -60 dBm CF 5.3 GHz 1001 pts Span 40.0 MHz Marker Type | Ref | Trc **Function Result** X-value Y-value Function 5.298961 GHz 6.23 dBm 17.782217782 MHz 5.2910889 GHz 2.67 dBm Occ Bw T2 5.3088711 GHz -3.09 dBm

Date: 4.DEC.2023 09:22:46

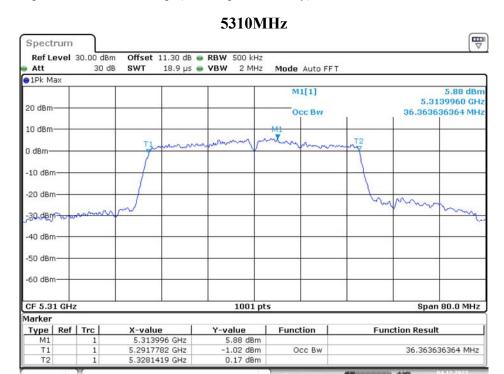
#### 5320MHz Spectrum Ref Level 30.00 dBm Offset 11.30 dB @ RBW 200 kHz Att 30 dB SWT 28.4 μs 🌞 **VBW** Mode Auto FFT ● 1Pk Max M1[1] 5.3228770 GHz 20 dBm Occ Bw 17.902097902 MH 10 dBm 0 dBm -10 dBm -20 dBm My MA -40 dBm -50 dBm -60 dBm Span 40.0 MHz 1001 pts CF 5.32 GHz Marker Type | Ref | Trc X-value Y-value Function **Function Result** 6.22 dBm -2.41 dBm 5.322877 GHz 5.311049 GHz Occ Bw 17.902097902 MHz 5.328951 GHz -3.25 dBm

Date: 4.DEC.2023 09:29:15

### IEEE 802.11ac VHT40 Mode / 5250 ~ 5350MHz

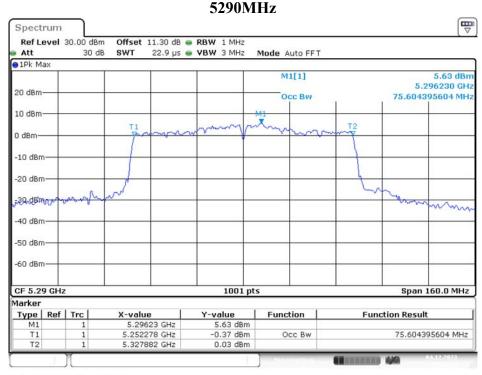


Date: 4.DEC.2023 09:59:37



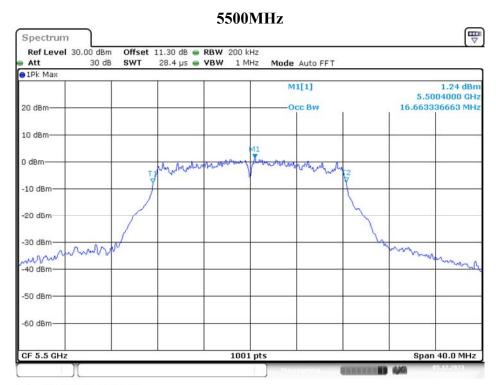
Date: 4.DEC.2023 10:01:55

### IEEE 802.11ac VHT80 Mode / 5250 ~ 5350MHz



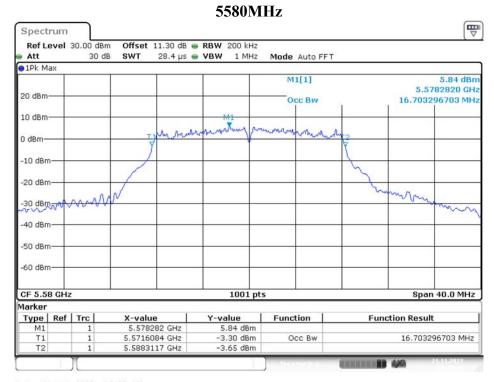
Date: 4.DEC.2023 10:22:30

## UNII-2C Band III / OBW 99% IEEE 802.11a Mode / 5470 ~ 5725MHz



No.: RXZ231115070RF03

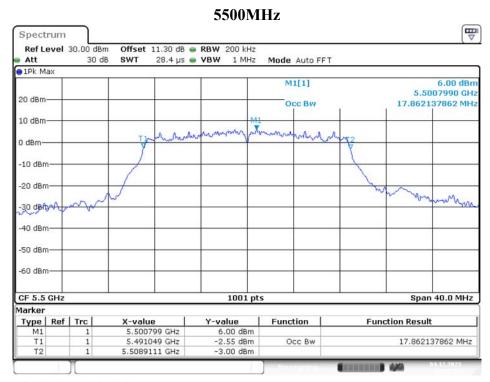
Date: 5.DEC.2023 15:20:37



#### 5700MHz Spectrum Ref Level 30.00 dBm Offset 11.30 dB @ RBW 200 kHz Att 30 dB SWT 28.4 µs 🍅 **VBW** Mode Auto FFT ● 1Pk Max M1[1] 5.6983220 GH 20 dBm Occ Bw 16.703296703 MHz 10 dBm 0 dBm -10 dBm -20 dBm -40 dBm -50 dBm -60 dBm Span 40.0 MHz 1001 pts CF 5.7 GHz Marker Type | Ref | Trc X-value Y-value Function **Function Result** 5.91 dBm -3.63 dBm 5.698322 GHz 5.6916084 GHz Occ Bw 16.703296703 MHz 5.7083117 GHz -3.59 dBm

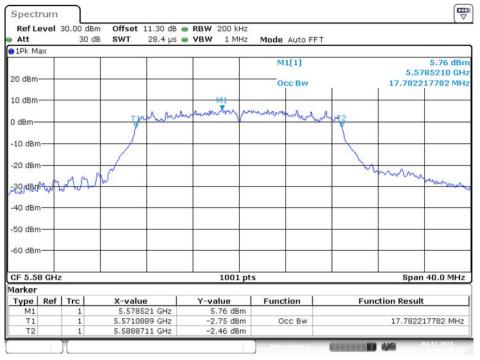
Date: 21.NOV.2023 16:30:43

### IEEE 802.11ac VHT20 Mode / 5470 ~ 5725MHz



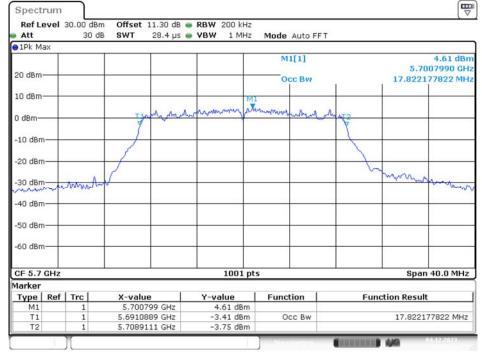
Date: 4.DEC.2023 09:36:23

### 5580MHz



Date: 4.DEC.2023 09:41:19

### 5700MHz



Date: 4.DEC.2023 09:43:01

### IEEE 802.11ac VHT40 Mode / 5470 ~ 5725MHz

### 5510MHz Spectrum Offset 11.30 dB • RBW 500 kHz Ref Level 30.00 dBm Mode Auto FFT Att 30 dB SWT 18.9 μs 🍩 **VBW** 2 MHz 1Pk Max 6.67 dBm 5.5154350 GHz M1[1] 20 dBm Occ Bw 36.443556444 MHz 10 dBm 0 dBm -10 dBm -20 dBm /80\d8/n^ -40 dBm -50 dBm -60 dBm CF 5.51 GHz 1001 pts Span 80.0 MHz

Y-value

6.67 dBm

0.05 dBm

-0.08 dBm

Function

Occ Bw

**Function Result** 

36.443556444 MHz

No.: RXZ231115070RF03

Date: 4.DEC.2023 10:04:26

**X-value** 5.515435 GHz

5.4917782 GHz

5.5282218 GHz

Marker

T2

Type Ref Trc

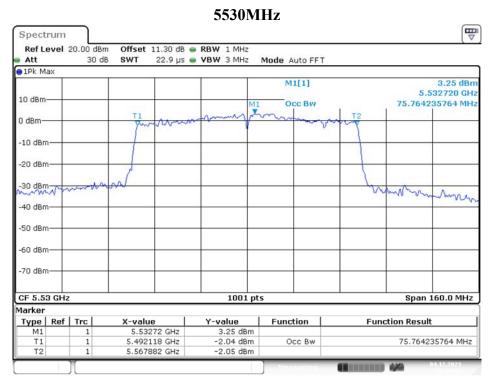
#### 5550MHz -Spectrum Ref Level 30.00 dBm Offset 11.30 dB @ RBW 500 kHz 18.9 μs 🌞 **VBW** Att 30 dB SWT Mode Auto FFT 1Pk View M1[1] 5.99 dBr 5.5461640 GHz 20 dBm Occ Bw 36.523476523 MHz 10 dBm 0 dBm--10 dBm -20 dBm **පර අභි**ක -40 dBm -50 dBm -60 dBm CF 5.55 GHz 1001 pts Span 80.0 MHz Marker Type | Ref | Trc **Function Result** X-value Y-value Function 5.546164 GHz 5.99 dBm 36.523476523 MHz 5.5317782 GHz -0.18 dBm Occ Bw 5.5683017 GHz T2 -1.32 dBm

Date: 24.JAN.2024 10:27:35

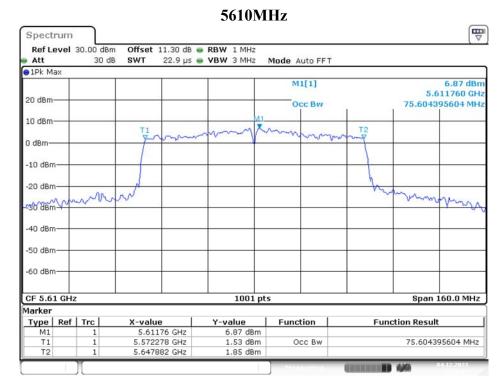
#### 5670MHz Spectrum Ref Level 30.00 dBm Offset 11.30 dB @ RBW 500 kHz Att 30 dB SWT 18.9 μs 🌞 **VBW** 2 MHz Mode Auto FFT ● 1Pk Max M1[1] 5.6670430 GH 20 dBm Occ Bw 36.443556444 MH 10 dBm 0 dBm -10 dBm -20 dBm -40 dBm -50 dBm -60 dBm 1001 pts Span 80.0 MHz CF 5.67 GHz Marker Type | Ref | Trc X-value Y-value Function **Function Result** 5.667043 GHz 5.6517782 GHz 6.22 dBm 0.64 dBm Occ Bw 36.443556444 MHz 5.6882218 GHz -0.30 dBm

Date: 4.DEC.2023 10:06:54

### IEEE 802.11ac VHT80 Mode / 5470 ~ 5725MHz

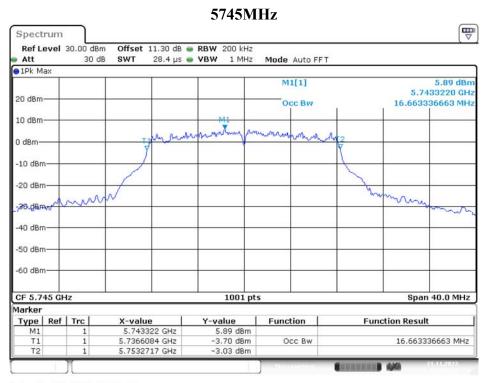


Date: 4.DEC.2023 10:24:45



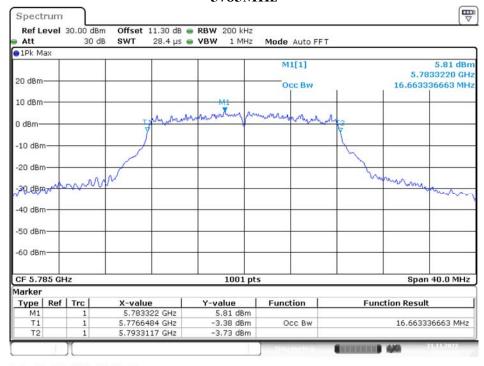
Date: 4.DEC.2023 10:26:57

## UNII-3 Band IV / OBW 99% IEEE 802.11a Mode / 5725 ~ 5850MHz



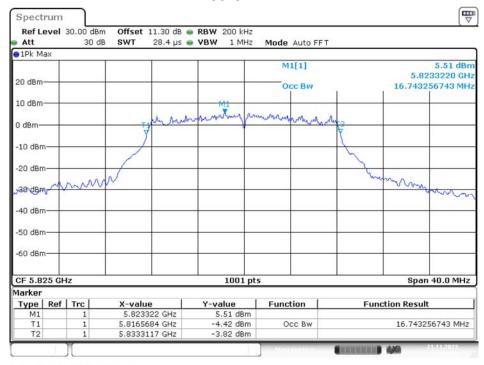
Date: 21.NOV.2023 16:33:43

### 5785MHz



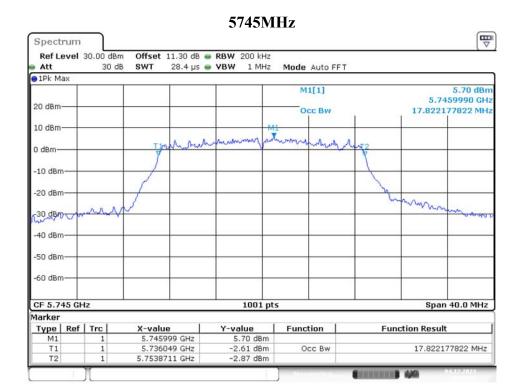
Date: 21.NOV.2023 16:36:03

### 5825MHz



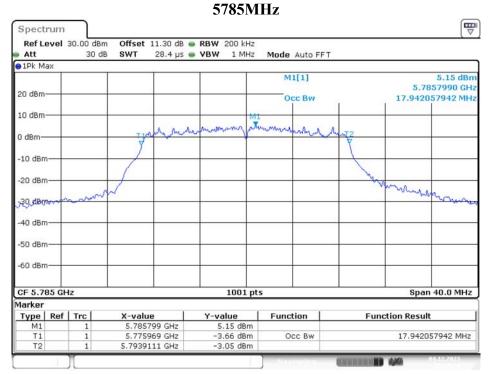
Date: 21.NOV.2023 16:38:08

### IEEE 802.11ac VHT20 Mode / 5725 ~ 5850MHz



No.: RXZ231115070RF03

Date: 4.DEC.2023 09:45:46

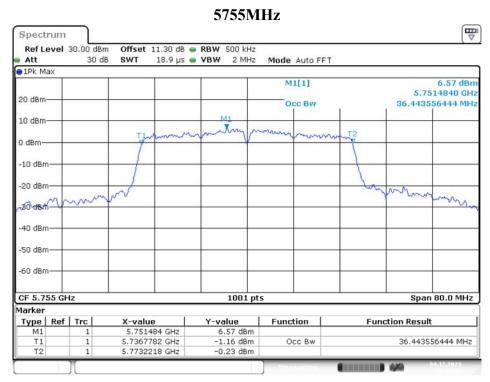


Date: 4.DEC.2023 09:47:51

#### 5825MHz Spectrum Ref Level 30.00 dBm Offset 11.30 dB @ RBW 200 kHz Att 30 dB SWT 28.4 μs 🌞 **VBW** Mode Auto FFT ● 1Pk Max M1[1] 5.8264390 GH 20 dBm Occ Bw 17.942057942 MH 10 dBm 0 dBm -10 dBm -20 dBm mound -30 dBm--40 dBm -50 dBm -60 dBm Span 40.0 MHz CF 5.825 GHz 1001 pts Marker Type | Ref | Trc X-value Y-value Function **Function Result** 5.39 dBm -3.66 dBm 5.826439 GHz 5.816009 GHz Occ Bw 17.942057942 MHz 5.833951 GHz -3.71 dBm

Date: 4.DEC.2023 09:50:07

### IEEE 802.11ac VHT40 Mode / 5725 ~ 5850MHz

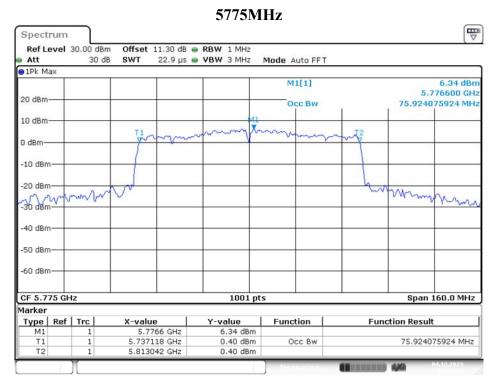


Date: 4.DEC.2023 10:13:49



Date: 4.DEC.2023 10:16:12

### IEEE 802.11ac VHT80 Mode / 5725 ~ 5850MHz



Date: 4.DEC.2023 10:30:00

## 12 FCC §15.407(a) & RSS-247 §6.2 – Maximum Output Power

No.: RXZ231115070RF03

## 12.1 Applicable Standard

According to FCC §15.407(a):

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 thefrequency 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 densityshall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gaingreater than 6 dBi are used, both the maximum conducted output power and the maximum powerspectral density shall be reduced by the amount in dB that the directional gain of the antennaexceeds 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.

According to RSS-247 §6.2:

For the 5.15-5.25 GHz band

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log10B, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log10B, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

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Page 105 of 133

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

No.: RXZ231115070RF03

For the 5.25-5.35 GHz band

Devices, other than devices installed in vehicles, shall comply with the following:

a) The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less.

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;

b) The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission

bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in

order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

For the 5.47-5.725 GHz bands

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The

power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission

bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in

order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

For the 5.725-5.85 GHz bands

The maximum conducted output power shall not exceed 1 W. The output 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 output 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 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

Footnote3 systems, omnidirectional applications and multiple collocated transmitters transmitting the same

information.

12.2 Test Procedure

According to ANSI C63.10-2013 Section 12.3.3.1

The use Power Meter

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

2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to a Power

sensor.

## 12.3 Test Results

Test Mode: Transmitting

## 5150-5250MHz

Test Modes	Channel	Frequency (MHz)	Maximum Conducted Average Output Power (dBm)	Duty Factor (dB)	Total Maximum Conducted Average Output Power With Duty Factor (dBm)	FCC Limit (dBm)	EIRP Power (dBm)	RSS-247 EIRP Limit (dBm)
	36	5180	15.72	0.41	16.13	24	19.34	22.22
802.11a	40	5200	15.83	0.41	16.24	24	19.45	22.23
	48	5240	15.92	0.41	16.33	24	19.54	22.23
	36	5180	15.39	0.46	15.85	24	19.06	22.54
802.11ac VHT20	40	5200	15.49	0.46	15.95	24	19.16	22.51
	48	5240	15.55	0.46	16.01	24	19.22	22.52
902 11aa VIIIT40	38	5190	13.71	0.76	14.47	24	17.68	23
802.11ac VHT40	46	5230	13.76	0.76	14.52	24	17.73	23
802.11ac VHT80	42	5210	11.08	1.43	12.51	24	15.72	23

Note: The device is a client device.

## 5250-5350MHz

Test Modes	Channel	Frequency (MHz)	Maximum Conducted Average Output Power (dBm)	Duty Factor (dB)	Total Maximum Conducted Average Output Power With Duty Factor (dBm)	FCC Limit (dBm)	RSS-247 Limit (dBm)	EIRP Power (dBm)	RSS-247 EIRP Limit (dBm)
	52	5260	15.93	0.41	16.34	24	23.23	19.77	29.23
802.11a	60	5300	15.96	0.41	16.37	24	23.23	19.80	29.23
	64	5320	16.05	0.41	16.46	24	23.22	19.89	29.22
	52	5260	15.65	0.46	16.11	24	23.51	19.54	29.51
802.11ac VHT20	60	5300	15.68	0.46	16.14	24	23.50	19.57	29.50
	64	5320	15.65	0.46	16.11	24	23.53	19.54	29.53
802.11ac VHT40	54	5270	13.33	0.76	14.09	24	24	17.52	30
802.11ac VH140	62	5310	12.33	0.76	13.09	24	24	16.52	30
802.11ac VHT80	58	5290	10.65	1.43	12.08	24	24	15.51	30

## 5470-5725MHz

Test Modes	Channel	Frequency (MHz)	Maximum Conducted Average Output Power (dBm)	Duty Factor (dB)	Total Maximum Conducted Average Output Power With Duty Factor (dBm)	FCC Limit (dBm)	RSS-247 Limit (dBm)	EIRP Power (dBm)	RSS-247 EIRP Limit (dBm)
	100	5500	14.71	0.41	15.12	24	23.22	18.12	29.22
802.11a	116	5580	15.75	0.41	16.16	24	23.23	19.16	29.23
	140	5700	15.61	0.41	16.02	24	23.23	19.02	29.23
	100	5500	14.05	0.46	14.51	24	23.52	17.51	29.52
802.11ac VHT20	116	5580	14.45	0.46	14.91	24	23.50	17.91	29.50
	140	5700	13.62	0.46	14.08	24	23.51	17.08	29.51
	102	5510	13.35	0.76	14.11	24	24	17.11	30
802.11ac VHT40	110	5550	13.95	0.76	14.71	24	24	17.71	30
	134	5670	14.02	0.76	14.78	24	24	17.78	30
902 11 a VIIT90	106	5530	9.08	1.43	10.51	24	24	13.51	30
802.11ac VHT80	122	5610	13.03	1.43	14.46	24	24	17.46	30

No.: RXZ231115070RF03

## 5725-5850MHz

Test Modes	Channel	Frequency (MHz)	Maximum Conducted Average Output Power (dBm)	Duty Factor (dB)	Total Maximum Conducted Average Output Power With Duty Factor (dBm)	FCC / RSS-247 Limit (dBm)
	149	5745	15.45	0.41	15.86	30
802.11a	157	5785	15.47	0.41	15.88	30
	165	5825	15.25	0.41	15.66	30
	149	5745	15.25	0.46	15.71	30
802.11ac VHT20	157	5785	15.05	0.46	15.51	30
	165	5825	15.05	0.46	15.51	30
902 11 VIIT40	151	5755	14.75	0.76	15.51	30
802.11ac VHT40	159	5795	14.65	0.76	15.41	30
802.11ac VHT80	155	5775	13.88	1.43	15.31	30

## 13 FCC §15.407(a) & RSS-247 §6.2 – Power Spectral Density

No.: RXZ231115070RF03

## 13.1 Applicable Standard

According to FCC §15.407(a):

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 30dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6dBi 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 6dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6dBi 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.

According to RSS-247 §6.2:

For the 5.15-5.25 GHz band

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log10B, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log10B, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

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Page 109 of 133

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

No.: RXZ231115070RF03

For the 5.25-5.35 GHz band

Devices, other than devices installed in vehicles, shall comply with the following:

a) The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less.

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;

b) The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission

bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in

order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

For the 5.47-5.725 GHz bands

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The

power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission

bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in

order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

For the 5.725-5.85 GHz bands

The maximum conducted output power shall not exceed 1 W. The output 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 output 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 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

Footnote3 systems, omnidirectional applications and multiple collocated transmitters transmitting the same

information.

13.2 Test Procedure

The measurements are base on FCC KDB 789033 D02 General UNII Test Procedyres New Rules v02r01:

Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices

section F: Maximum power spectral density.

Duty cycle <98%, duty cycle variations are less than ±2%

Method SA-2 was used.

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Page 110 of 133

## 13.3 Test Results

Test Mode: Transmitting

## 5150-5250MHz

UNII Band	Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density with duty factor	Limit (dBm/MHz)	Power S Den (dBm/	Spectral sity
				,		(dBm/MHz)		Result	Limit
		36	5180	5.00	0.41	5.41	11	8.62	10
	802.11a	40	5200	4.83	0.41	5.24	11	8.45	10
		48	5240	4.80	0.41	5.21	11	8.42	10
		36	5180	4.85	0.46	5.31	11	8.52	10
UNII-1	802.11ac 20	40	5200	4.52	0.46	4.98	11	8.19	10
	902.11 40	48	5240	5.02	0.46	5.48	11	8.69	10
		38	5190	0.13	0.76	0.89	11	4.10	10
	802.11ac 40	46	5230	0.14	0.76	0.90	11	4.11	10
	802.11ac 80	42	5210	-5.18	1.43	-3.75	11	-0.54	10

Note: The device is a client device.

## 5250-5350MHz

UNII Band	Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density with duty factor (dBm/MHz)	Limit (dBm/MHz)
		52	5260	4.94	0.41	5.35	11
	802.11a	60	5300	4.86	0.41	5.27	11
		64	5320	5.31	0.41	5.72	11
	802.11ac 20	52	5260	5.34	0.46	5.80	11
UNII-2A		60	5300	4.86	0.46	5.32	11
		64	5320	4.15	0.46	4.61	11
	902 11 22 40	54	5270	-0.69	0.76	0.07	11
	802.11ac 40	62	5310	-1.34	0.76	-0.58	11
	802.11ac 80	58	5290	-5.76	1.43	-4.33	11

## 5470-5725MHz

UNII Band	Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Power Spectral Density with duty factor (dBm/MHz)	Limit (dBm/MHz)
		100	5500	5.35	0.41	5.76	11
	802.11a	116	5580	4.09	0.41	4.50	11
		140	5700	4.95	0.41	5.36	11
	802.11ac 20	100	5500	3.53	0.46	3.99	11
		116	5580	4.04	0.46	4.50	11
UNII-2C		140	5700	2.85	0.46	3.31	11
		102	5510	-0.44	0.76	0.32	11
	802.11ac 40	110	5550	1.05	0.76	1.81	11
		134	5670	0.40	0.76	1.16	11
	902 1100 90	106	5530	-7.33	1.43	-5.90	11
	802.11ac 80	122	5610	-3.45	1.43	-2.02	11

No.: RXZ231115070RF03

## 5725-5850MHz

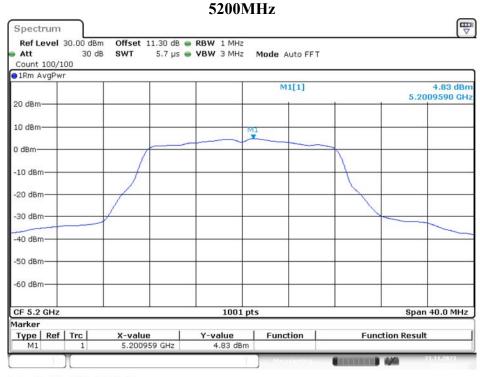
UNII Band	Mode	Channel	Frequency (MHz)	Power Spectral Density (dBm/500kHz)	Duty Factor (dB)	Power Spectral Density with duty factor (dBm/500kHz)	Limit (dBm/500kHz)
		149	5745	0.09	0.41	0.50	30
	802.11a	157	5785	-0.33	0.41	0.08	30
		165	5825	-0.57	0.41	-0.16	30
		149	5745	-0.24	0.46	0.22	30
UNII-3	802.11ac 20	157	5785	-0.86	0.46	-0.40	30
		165	5825	-0.98	0.46	-0.52	30
	902 1100 40	151	5755	-4.14	0.76	-3.38	30
802.11ac	802.11ac 40	159	5795	-3.91	0.76	-3.15	30
	802.11ac 80	155	5775	-7.83	1.43	-6.40	30

## **UNII-1 Band I / PSD** IEEE 802.11a Mode / 5150 ~ 5250MHz

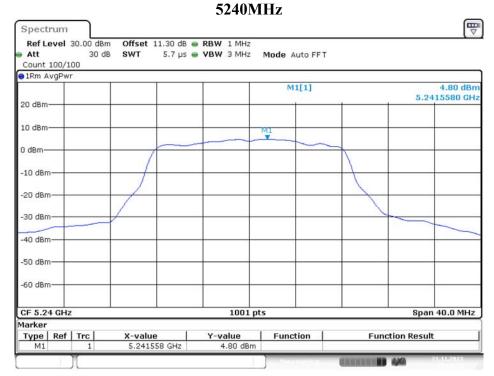
Please refer to the following plots

### 5180MHz Spectrum Offset 11.30 dB @ RBW 1 MHz Ref Level 30.00 dBm 5.7 μs 🍅 **VBW** 3 MHz SWT Att 30 dB Mode Auto FFT Count 100/100 ●1Rm AvgPwr M1[1] 5.00 dBn 5.1811190 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 5.18 GHz 1001 pts Span 40.0 MHz Marker Type | Ref | Trc | X-value Y-value Function **Function Result** 5.181119 GHz 5.00 dBm

Date: 21.NOV.2023 17:05:17

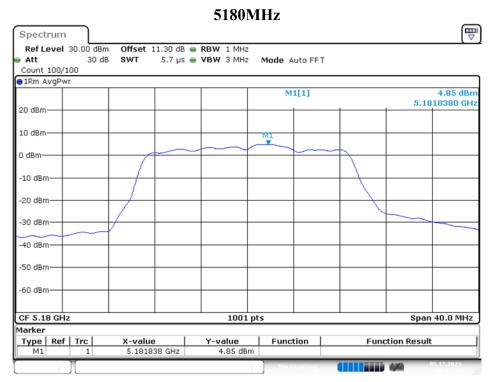


Date: 21.Nov.2023 17:06:33



Date: 21.NOV.2023 17:10:51

### IEEE 802.11ac VHT20 Mode / 5150 ~ 5250MHz



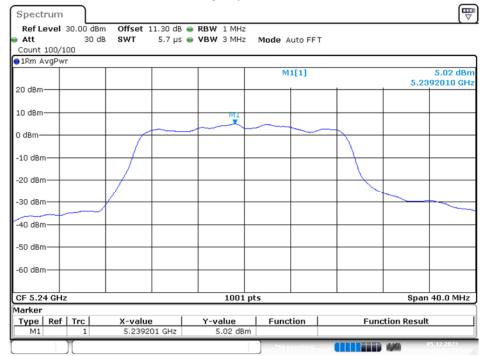
Date: 5.DEC.2023 16:52:14

## 5200MHz

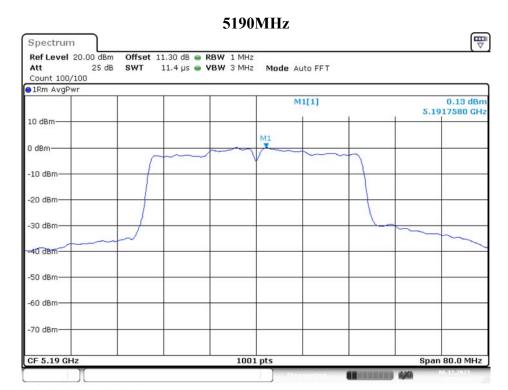


Date: 5.DEC.2023 16:51:46

### **5240MHz**



Date: 5.DEC.2023 16:51:14

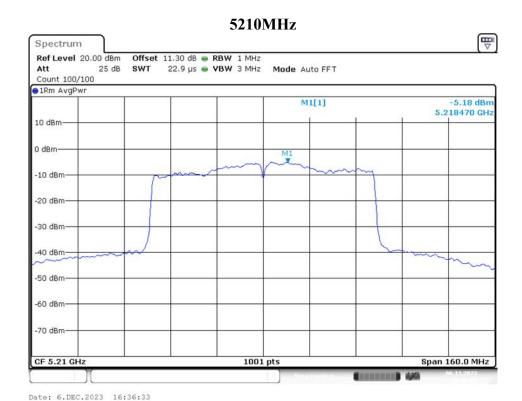


Date: 6.DEC.2023 15:16:57

### **5230MHz** Spectrum Ref Level 20.00 dBm Offset 11.30 dB - RBW 1 MHz 25 dB SWT 11.4 µs 🍅 VBW 3 MHz Mode Auto FFT Att Count 100/100 ●1Rm AvgPwr M1[1] 0.14 dBm 5.2315180 GH 10 dBm-0 dBm--10 dBm -20 dBm -30 dBm 40 dBm -50 dBm -60 dBm -70 dBm Span 80.0 MHz 1001 pts CF 5.23 GHz

Date: 6.DEC.2023 15:15:13

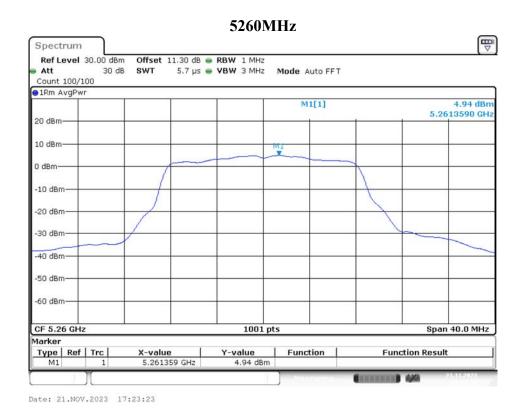
### IEEE 802.11ac VHT80 Mode / 5150 ~ 5250MHz



No.: RXZ231115070RF03

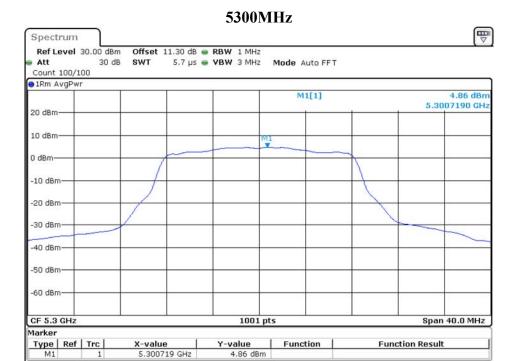
UNII-2A Band II / PSD

IEEE 802.11a Mode / 5250 ~ 5350MHz



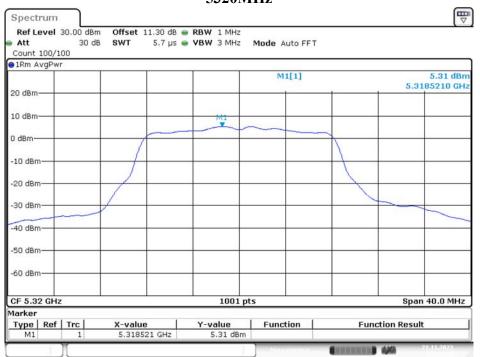
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Page 117 of 133



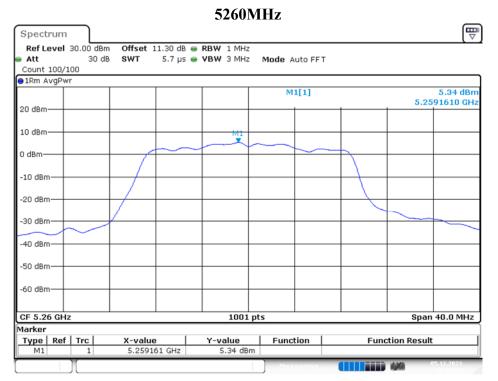
Date: 21.NOV.2023 17:12:05

## 5320MHz



Date: 21.NOV.2023 17:13:17

## IEEE 802.11ac VHT20 Mode / 5250 ~ 5350MHz



No.: RXZ231115070RF03

Date: 5.DEC.2023 16:50:27

#### 5300MHz Spectrum Ref Level 30.00 dBm Offset 11.30 dB RBW 1 MHz 30 dB 5.7 μs 🍅 **VBW** 3 MHz SWT Att Mode Auto FFT Count 100/100 ●1Rm AvgPwr M1[1] 4.86 dBm 5.3007590 GH 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 1001 pts CF 5.3 GHz Span 40.0 MHz Marker Type | Ref | Trc X-value Y-value Function **Function Result** 5.300759 GHz 4.86 dBm 100

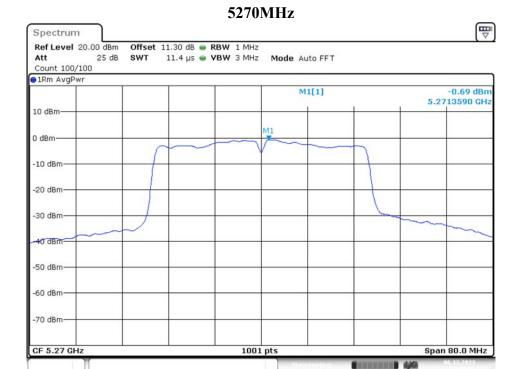
Date: 5.DEC.2023 16:49:12

## 5320MHz

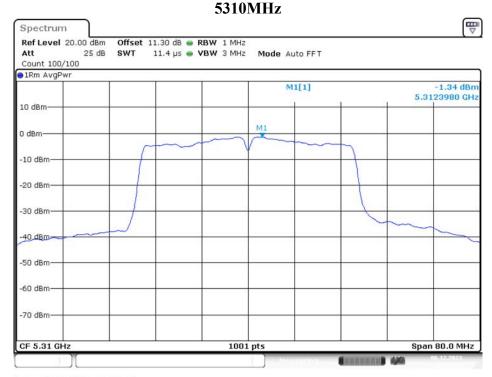


Date: 5.DEC.2023 16:48:37

### IEEE 802.11ac VHT40 Mode / 5250 ~ 5350MHz

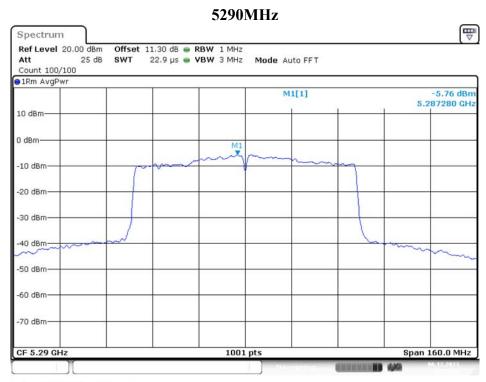


Date: 6.DEC.2023 15:12:11



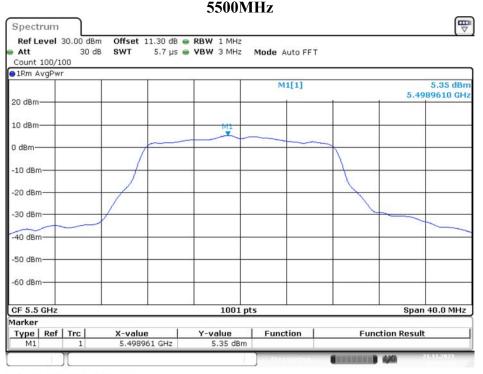
### Date: 6.DEC.2023 15:13:13

### IEEE 802.11ac VHT80 Mode / 5250 ~ 5350MHz



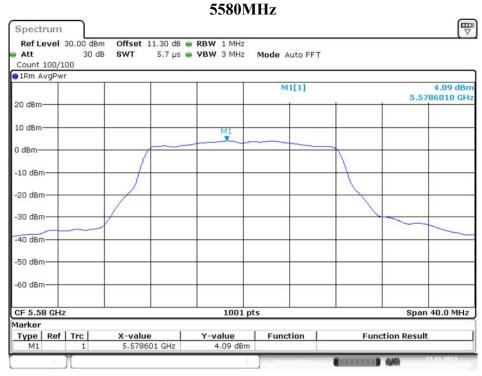
Date: 6.DEC.2023 16:35:06

## UNII-2C Band III / PSD IEEE 802.11a Mode / 5470 ~ 5725MHz



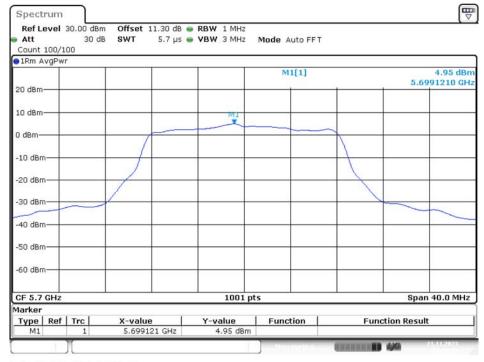
No.: RXZ231115070RF03

Date: 21.NOV.2023 17:14:25



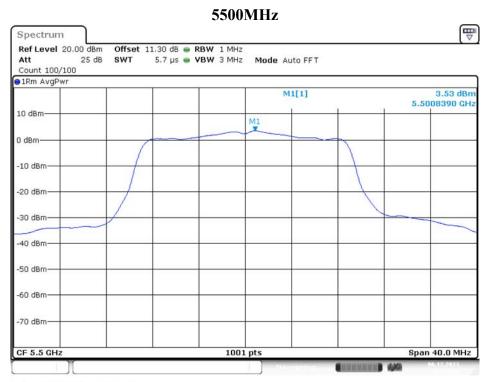
Date: 21.NOV.2023 17:15:14

### 5700MHz



Date: 21.NOV.2023 17:16:07

### IEEE 802.11ac VHT20 Mode / 5470 ~ 5725MHz



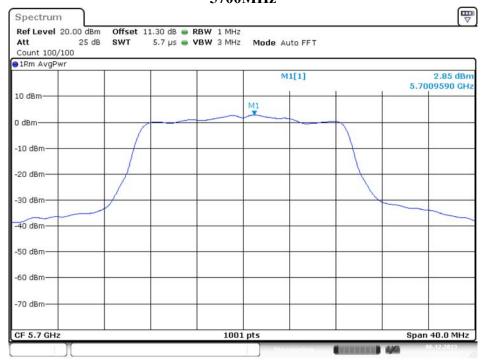
Date: 6.DEC.2023 14:57:00

### 5580MHz



Date: 6.DEC.2023 14:27:22

## 5700MHz

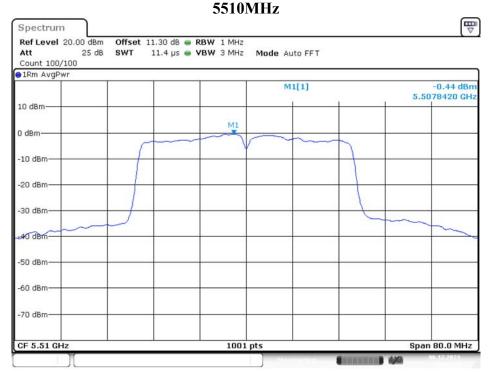


Date: 6.DEC.2023 14:59:38

## IEEE 802.11ac VHT40 Mode / 5470 ~ 5725MHz

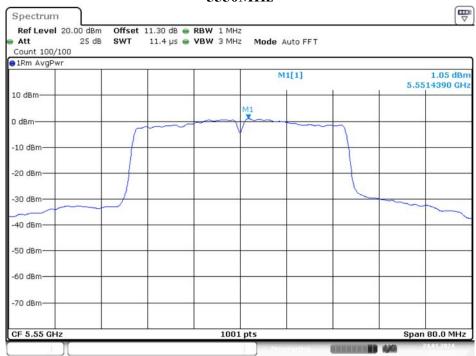
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No.: RXZ231115070RF03



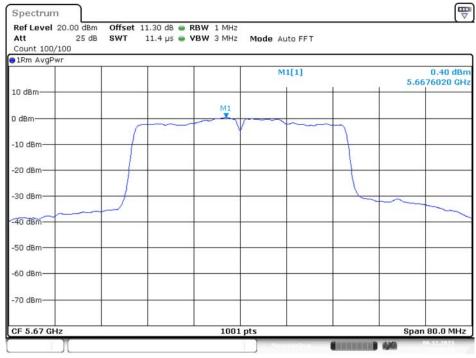
Date: 6.DEC.2023 16:21:04

### 5550MHz



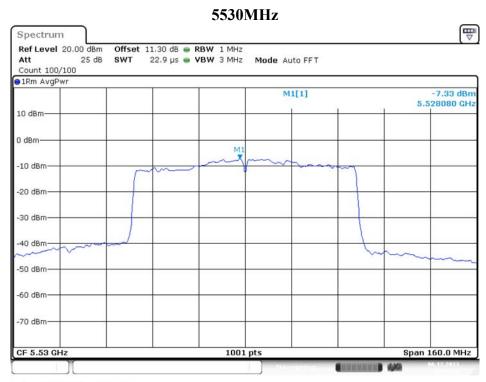
Date: 24.JAN.2024 10:35:26

### 5670MHz



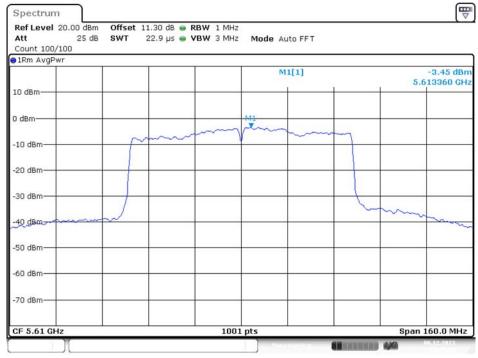
Date: 6.DEC.2023 16:26:33

### IEEE 802.11ac VHT80 Mode / 5470 ~ 5725MHz



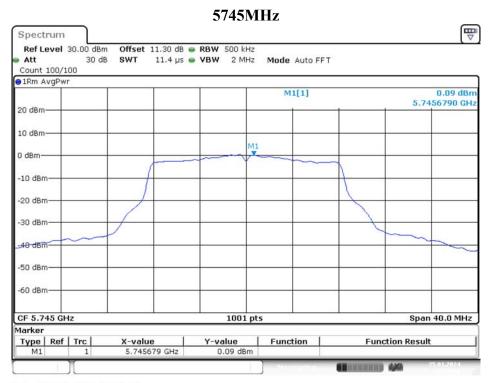
Date: 6.DEC.2023 16:38:29





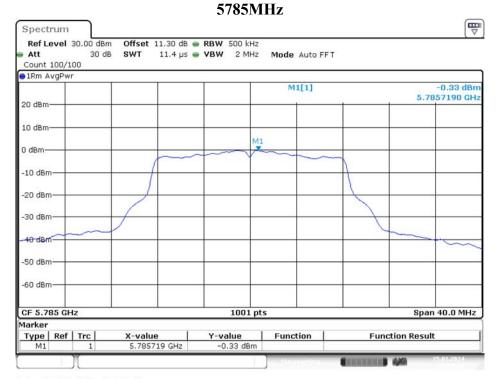
Date: 6.DEC.2023 16:40:08

UNII-3 Band IV / PSD IEEE 802.11a Mode / 5725 ~ 5850MHz



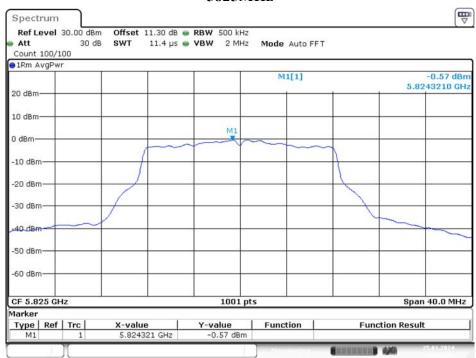
Date: 25.JAN.2024 16:58:08

# ratory) No.: RXZ231115070RF03



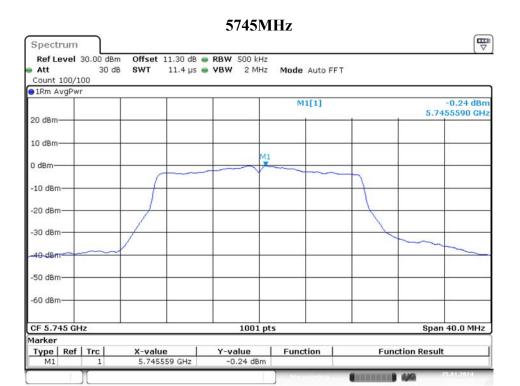
Date: 25.JAN.2024 17:00:38

### 5825MHz



Date: 25.JAN.2024 17:01:25

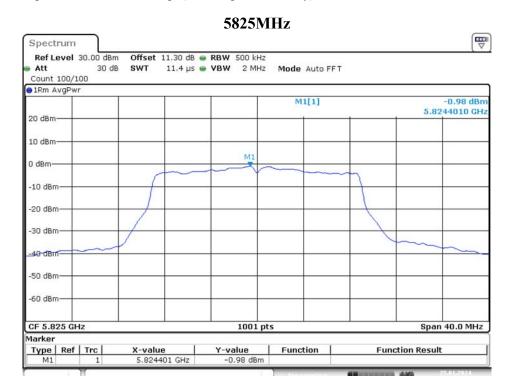
### IEEE 802.11ac VHT20 Mode / 5725 ~ 5850MHz



No.: RXZ231115070RF03

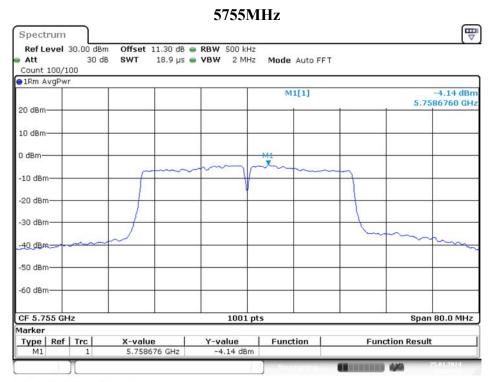
Date: 25.JAN.2024 17:12:10

### 5785MHz Spectrum Ref Level 30.00 dBm Offset 11.30 dB @ RBW 500 kHz 30 dB SWT 11.4 μs 🌞 **VBW** 2 MHz Att Mode Auto FFT Count 100/100 ●1Rm AvgPwr M1[1] -0.86 dBm 5.7857590 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm 40 dB -50 dBm -60 dBm 1001 pts Span 40.0 MHz CF 5.785 GHz Marker Type | Ref | Trc X-value Y-value Function **Function Result** 5.785759 GHz -0.86 dBm



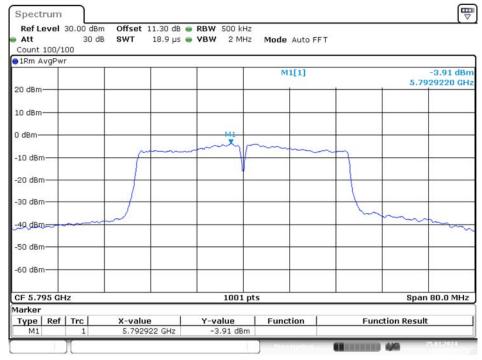
Date: 25.JAN.2024 17:15:27

### IEEE 802.11ac VHT40 Mode / 5725 ~ 5850MHz



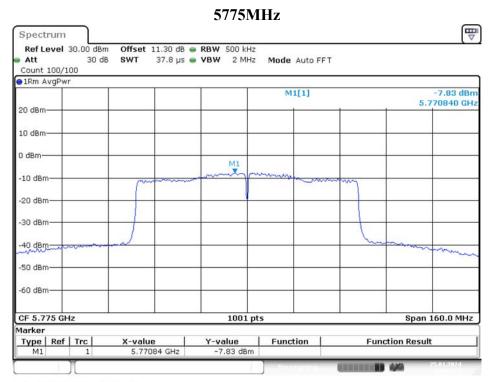
Date: 25.JAN.2024 17:28:19

### 5795MHz



Date: 25.JAN.2024 17:31:49

### IEEE 802.11ac VHT80 Mode / 5725 ~ 5850MHz



Date: 25.JAN.2024 17:34:27

## 14 RSS-247 §6.4 – Additional requirements

### 14.1 Applicable Standard

According to RSS-247 Clause 6.4 Additional requirement

The following requirements shall apply:

a. The device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure. A description on how this is done shall accompany the application for equipment certification. Note that this is not intended to prohibit transmission of control or signalling information or the use of repetitive codes where required by the technology.

No.: RXZ231115070RF03

b. All LE-LAN devices must contain security features to protect against modification of software by unauthorized parties.

Manufacturers must implement security features in any digitally modulated devices capable of operating in any of the frequency ranges within the 5 GHz band, so that third parties are not able to reprogram the device to operate outside the parameters for which the device was certified. The software must prevent the user from operating the transmitter with operating frequencies, output power, modulation types or other radio frequency parameters outside those that were approved for the device. Manufacturers may use various means, including the use of a private network that allows only authenticated users to download software, electronic signatures in software or coding in hardware that is decoded by software to verify that new software can be legally loaded into a device to meet these requirements and must describe the methods in their application for equipment certification.

Manufacturers must take steps to ensure that DFS functionality cannot be disabled by the operator of the LE-LAN device.

- c. The user manual for LE-LAN devices shall contain instructions related to the restrictions mentioned in the above sections, namely that:
  - i. the device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems; Footnote4
  - ii. for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
  - iii. for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and
  - iv. where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.

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Page 132 of 133

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

No.: RXZ231115070RF03

## 14.2 Judgment

RSS-247 Clause 6.4 a):

The device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure. Please refer to the declaration

RSS-247 Clause 6.4 b):

The devices must contain security features to protect against modification of software by unauthorized parties. Please refer to the declaration

RSS-247 Clause 6.4 c):

- i). The device operates on 5150-5250MHz is only for indoor use.
- ii). The device operates on 5250-5350MHz/5470-5725MHz complies with the e.i.r.p. limit.
- iii). The antenna is not detachable, and all the EIPR compliance with RSS-247 requirement. Please refer to the conducted output power test result.
- iv). Not Applicable.

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