






TEST REPORT

<p>KCTL KCTL Inc. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-31-285-0894 FAX: 82-505-299-8311 www.kctl.co.kr</p>	<p>Report No.: KR20-SRF0258 Page (1) of (296)</p>	
<p>1. Client</p> <ul style="list-style-type: none"> ◦ Name : Samsung Electronics Co., Ltd. ◦ Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea ◦ Date of Receipt : 2020-08-31 <p>2. Use of Report : Certification</p> <p>3. Name of Product / Model : Tablet PC / SM-T577U/DS</p> <p>4. Manufacturer / Country of Origin : Samsung Electronics Co., Ltd. / Vietnam</p> <p>5. FCC ID : A3LSMT577U</p> <p>6. IC Certificate No. : 649E-SMT577U</p> <p>7. Date of Test : 2020-07-14 to 2020-09-28</p> <p>8. Location of Test : <input checked="" type="checkbox"/> Permanent Testing Lab <input type="checkbox"/> On Site Testing (Address: Address of testing location)</p> <p>9. Test method used : FCC Part 15 Subpart E, 15.407 RSS-247 Issue 2 February 2017 RSS GEN Issue 5 March 2019</p> <p>10. Test Results : Refer to the test result in the test report</p>		
<p>Affirmation</p>	<p>Tested by</p> <p>Name : Taeyoung Kim  (Signature)</p>	<p>Technical Manager</p> <p>Name : Seungyong Kim  (Signature)</p>
<p style="text-align: right;">2020-10-06</p> <p style="text-align: center;">KCTL Inc.</p> <p>As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by KCTL Inc.</p>		

REPORT REVISION HISTORY

Date	Revision	Page No
2020-10-06	Originally issued	-

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General remarks for test reports

Nothing significant to report.

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1. General information

Client : Samsung Electronics Co., Ltd.
Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677,
Rep. of Korea
Manufacturer : Samsung Electronics Co., Ltd.
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Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
Industry Canada Registration No. : 8035A
KOLAS No.: KT231

2. Device information

Equipment under test : Tablet PC
Model : SM-T577U/DS
Modulation technique : Bluetooth(BDR/EDR)_GFSK, $\pi/4$ DQPSK, 8DPSK
Bluetooth(BLE)_GFSK
WIFI(802.11a/b/g/n/ac/ax)_DSSS, OFDM, OFDMA
NFC_ASK
LTE_QPSK, 16QAM, 64QAM
WCDMA_QPSK
GSM_GMSK, 8-PSK
Number of channels : Bluetooth(BDR/EDR)_79 ch / Bluetooth(BLE)_40 ch
802.11b/g/n/ac/ax_HT20/VHT20/HE20 : 11 ch
UNII-1: 4 ch (20 MHz), 2 ch (40 MHz), 1 ch (80 MHz)
UNII-2A: 4 ch (20 MHz), 2 ch (40 MHz), 1 ch (80 MHz)
UNII-2C: 12 ch (20 MHz), 6 ch (40 MHz), 3 ch (80 MHz)
UNII-3: 5 ch (20 MHz), 2 ch (40 MHz), 1 ch (80 MHz)
NFC: 1 ch
Power source : DC 3.85 V
Antenna specification : LTE/WCDMA_LDS carrier Antenna
WIFI/Bluetooth(BDR/EDR/BLE)_LDS carrier Antenna
NFC_FPCB Antenna

Antenna gain	: WIFI/Bluetooth(BDR/EDR/BLE)_ ANT 1: -2.50 dBi, ANT 2 : -2.50 dBi UNII-1 ANT 1: -3.20 dBi, ANT 2: -3.70 dBi UNII-2A ANT 1: -3.20 dBi, ANT 2: -3.80 dBi UNII-2C ANT 1: -6.20 dBi, ANT 2: -6.70 dBi UNII-3 ANT 1: -6.50 dBi, ANT 2: -6.40 dBi
Frequency range	: Bluetooth(BDR/EDR/BLE)_ 2 402 MHz ~ 2 480 MHz 2 412 MHz ~ 2 462 MHz (802.11b/g/n/ac/ax_HT20/VHT20/HE20) UNII-1: 5 180 MHz ~ 5 240 MHz (802.11a/n/ac/ax_HT20/VHT20/HE20) UNII-1: 5 190 MHz ~ 5 230 MHz (802.11n/ac/ax_HT40/VHT40/HE40) UNII-1: 5 210 MHz (802.11ac/ax_VHT80/HE80) UNII-2A: 5 260 MHz ~ 5 320 MHz (802.11a/n/ac/ax_HT20/VHT20/HE20) UNII-2A: 5 270 MHz ~ 5 310 MHz (802.11n/ac/ax_HT40/VHT40/HE40) UNII-2A: 5 290 MHz (802.11ac/ax_VHT80/HE80) UNII-2C: 5 500 MHz ~ 5 720 MHz (802.11a/n/ac/ax_HT20/VHT20/HE20) UNII-2C: 5 510 MHz ~ 5 710 MHz (802.11n/ac/ax_HT40/VHT40/HE40) UNII-2C: 5 530 MHz ~ 5 690 MHz (802.11ac/ax_VHT80/HE80) UNII-3: 5 745 MHz ~ 5 825 MHz (802.11a/n/ac/ax_HT20/VHT20/HE20) UNII-3: 5 755 MHz ~ 5 795 MHz (802.11n/ac/ax_HT40/VHT40/HE40) UNII-3: 5 775 MHz (802.11ac/ax_VHT80/HE80) LTE Band 2_1 850.7 MHz ~ 1 909.3 MHz LTE Band 4_1 710.7 MHz ~ 1 754.3 MHz LTE Band 5_824.7 MHz ~ 848.3 MHz LTE Band 7_2 502.5 MHz ~ 2 567.5 MHz LTE Band 12_699.7 MHz ~ 715.3 MHz LTE Band 13_779.5 MHz ~ 784.5 MHz LTE Band 14_790.5 MHz ~ 795.5 MHz LTE Band 17_706.5 MHz ~ 713.5 MHz LTE Band 25_1 850.7 MHz ~ 1 914.3 MHz LTE Band 26_814.7 MHz ~ 848.3 MHz, 814.7 MHz ~ 823.3 MHz LTE Band 41_2 498.5 MHz ~ 2 687.5 MHz (FCC) LTE Band 41_2 502.5 MHz ~ 2 687.5 MHz (IC) LTE Band 66_1 710.7 MHz ~ 1 779.3 MHz LTE Band 71_665.5 MHz ~ 695.5 MHz WCDMA 850_826.4 MHz ~ 846.6 MHz WCDMA 1700_1 712.4 MHz ~ 1 752.6 MHz WCDMA 1900_1 852.4 MHz ~ 1 907.6 MHz NFC_13.56 MHz
Software version	: T577U.001
Hardware version	: REV1.0
Test device serial No.	: Conducted(R32N601ACHA,R32N601A7VE) Radiated(R32N601A80M, R32N601AW9N)
Operation temperature	: -30 °C ~ 50 °C

2.1. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power source	FCC ID & IC
Travel Adapter	SOLU-M	EP-TA200	R37M12L1A C1HM3	Input : 100-240V, 50-60Hz (0.5A) Output : 9.0V, 1.67A or 5.0V, 2.0A	-
Data Cable	RFTECH	EP- DT725BBE	-	-	-
External Earphone	ALMUS	EHS64AVF BE	-	-	-
Protective Cover	WILLTECH VINA	GH98- 45810A	-	-	-
S-Pen	WACOM	CP-913W- 00B	-	-	-

2.2. Frequency/channel operations

This device contains the following capabilities:

WiFi (802.11a/b/g/n/ac/ax), Bluetooth (BDR/EDR/BLE), NFC,
LTE Band 2, LTE Band 4, LTE Band 5, LTE Band 7, LTE Band 12, LTE Band 13, LTE Band 14, LTE Band 17,
LTE Band 25, LTE Band 26, LTE Band 29 (Downlink only), LTE Band 41 (PC2, PC3), LTE Band 66,
LTE Band 71, WCDMA 850, WCDMA 1700, WCDMA 1900

UNII-1

Ch.	Frequency (MHz)
36	5 180
40	5 200
48	5 240

UNII-2A

Ch.	Frequency (MHz)
52	5 260
56	5 280
64	5 320

UNII-2C

Ch.	Frequency (MHz)
100	5 500
120	5 580
140	5 700
144	5 720

UNII-3

Ch.	Frequency (MHz)
149	5 745
157	5 785
165	5 825

Table 2.2-1. 802.11ax_HE20 mode

UNII-1

Ch.	Frequency (MHz)
38	5 190
46	5 230

UNII-2A

Ch.	Frequency (MHz)
54	5 270
62	5 310

UNII-2C

Ch.	Frequency (MHz)
102	5 510
118	5 590
134	5 670
142	5 710

UNII-3

Ch.	Frequency (MHz)
151	5 755
159	5 795

Table 2.2-2. 802.11ax_HE40 mode

UNII-1

Ch.	Frequency (MHz)
42	5 210

UNII-2A

Ch.	Frequency (MHz)
58	5 290

UNII-2C

Ch.	Frequency (MHz)
106	5 530
122	5 610
138	5 690

UNII-3

Ch.	Frequency (MHz)
155	5 775

Table 2.2-3. 802.11ax_HE80 mode

2.3. Simultaneous Tx Condition

Simultaneous Tx condition – RSDB

Mode	# of TX	5GHz		2.4GHz		Test Case
		ANT 1	ANT 2	ANT 1	ANT 2	
2.4GHz + 5GHz RSDB Only	2	A	-	-	B	V
	2	-	A	B	-	V
	2	A	-	B	-	-
	2	-	A	-	B	-
2.4GHz + 5GHz RSDB & MIMO	3	A	A	B	-	V
	3	A	A	-	B	-
	3	A	-	B	B	-
	3	-	A	B	B	V
2.4GHz + 5GHz RSDB MIMO	4	A	A	B	B	V

Simultaneous Tx condition – not RSDB

Mode	# of TX	5GHz		2.4GHz Bluetooth	Test Case
		ANT 1	ANT 2	ANT 1	
2.4GHz Bluetooth + 5GHz WLAN (Not RSDB)	2	A	-	B	-
	2	-	A	B	-
	3	A		B	V

2.4 Test RU offset for tones in each modes

Mode	Tone number in RU	RU offset
HE20	26T	0
		4
		8
	52T	37
		38
		40
	106T	53
		54
242T / SU ^{Note}	61 / -	
HE40	26T	0
		9
		17
	52T	37
		41
		44
	106T	53
		54
	242T	56
		61
	484T / SU ^{Note}	62
HE80	26T	63 / -
		0
		18
	52T	36
		37
		45
	106T	52
		53
		57
	242T	60
		61
		62
	484T	64
		65
996T / SU ^{Note}	66	
		67 / -

Notes.

Full RU (Resource Unit) mode and SU (Single Unit) mode have no difference in physical waveform. This report has been described only SU mode with worst output power.

2.5 Band portion of RU allocation about straddle channels

Mode	Channel	Tone number in RU	RU offset	Portion
HE20	Straddle 5720 MHz	26T	0	UNII-2C
			4	UNII-2C
			8	UNII-3
		52T	37	UNII-2C
			38	UNII-2C
			40	UNII-3
		106T	53	UNII-2C
54	UNII-2C & UNII-3			
242T / SU	61 / -	UNII-2C & UNII-3		
HE40	Straddle 5710 MHz	26T	0	UNII-2C
			9	UNII-2C
			17	UNII-3
		52T	37	UNII-2C
			41	UNII-2C
			44	UNII-3
		106T	53	UNII-2C
			54	UNII-2C
			56	UNII-2C & UNII-3
		242T	61	UNII-2C
62	UNII-2C & UNII-3			
484T / SU	65 / -	UNII-2C & UNII-3		
HE80	Straddle 5690 MHz	26T	0	UNII-2C
			18	UNII-2C
			36	UNII-3
		52T	37	UNII-2C
			45	UNII-2C
			52	UNII-3
		106T	53	UNII-2C
			57	UNII-2C
			60	UNII-2C & UNII-3
		242T	61	UNII-2C
			62	UNII-2C
			64	UNII-2C & UNII-3
		484T	65	UNII-2C
66	UNII-2C & UNII-3			
996T / SU	67 / -	UNII-2C & UNII-3		

2.6. Duty Cycle Factor

Test mode	ANT	Tone	T _{on} time (ms)	Period (ms)	Duty cycle		Duty cycle factor (dB)	
					(Linear)	(%)		
UNII-1	HE20	SISO	26T	4.971 0	4.857 0	0.977 1	97.71	0.10
			52T	5.331 0	5.205 0	0.976 4	97.64	0.10
			106T	2.607 0	2.493 0	0.956 3	95.63	0.19
			SU	1.155 0	1.005 0	0.870 1	87.01	0.60
	HE20	MIMO	26T	5.326 0	5.194 0	0.975 2	97.52	0.11
			52T	2.760 0	2.616 0	0.947 8	94.78	0.23
			106T	1.400 0	1.280 0	0.914 3	91.43	0.39
			SU	0.658 0	0.538 0	0.817 6	81.76	0.87
	HE40	SISO	26T	4.998 0	4.882 0	0.976 8	97.68	0.10
			52T	5.350 0	5.186 0	0.969 3	96.93	0.14
			106T	2.578 0	2.414 0	0.936 4	93.64	0.29
			242T	1.226 0	1.094 0	0.892 3	89.23	0.49
			SU	0.654 0	0.534 0	0.816 5	81.65	0.88
	HE40	MIMO	26T	5.324 0	5.192 0	0.975 2	97.52	0.11
			52T	2.756 0	2.612 0	0.947 8	94.78	0.23
			106T	1.404 0	1.260 0	0.897 4	89.74	0.47
			242T	0.704 0	0.596 0	0.846 6	84.66	0.72
			SU	0.412 0	0.296 0	0.718 4	71.84	1.44
	HE80	SISO	26T	4.968 0	4.866 0	0.979 5	97.95	0.09
			52T	5.338 0	5.186 0	0.971 5	97.15	0.13
			106T	2.590 0	2.474 0	0.955 2	95.52	0.20
			242T	1.246 0	1.082 0	0.868 4	86.84	0.61
			484T	0.694 0	0.582 0	0.838 6	83.86	0.76
			SU	0.396 0	0.278 0	0.702 0	70.20	1.54
HE80	MIMO	26T	5.360 0	5.186 0	0.967 5	96.75	0.14	
		52T	2.768 0	2.578 0	0.931 4	93.14	0.31	
		106T	1.392 0	1.266 0	0.909 5	90.95	0.41	
		242T	0.714 0	0.570 0	0.798 3	79.83	0.98	
		484T	0.440 0	0.338 0	0.768 2	76.82	1.15	
		SU	0.288 0	0.178 0	0.618 1	61.81	2.09	

Notes.

1. Duty cycle (Linear) = T_{on} time / Period
2. DCF(Duty cycle factor) = 10log(1/duty cycle)
3. DCF is not compensated to average result if duty cycle is more than 98%
4. Please refer to Appendix A for plots,

3. Antenna requirement

Requirement of FCC part section 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

Requirement of RSS-Gen Section 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. for 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.

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.

- The transmitter has permanently attached LDS carrier Antenna (Internal antenna) on board.
- The E.U.T Complies with the requirement of §15.203, §15.247, §15.407.

3.1 Antenna information

Mode	SISO		CDD	MIMO
	ANT 1	ANT 2	ANT 1 + 2	ANT 1 + 2
802.11ax HE20	√	√	√	√
802.11ax HE40	√	√	√	√
802.11ax HE80	√	√	√	√

√ = Support, × = Not support

3.2 Directional Gain Calculations

According to clause F), 2), d), (i) of KDB 662911 D01 Multiple Transmitter Output, Directional gain may be calculated by using the formulas as below.

3.2.1. Directional Antenna Gain

Band	ANT 1 Gain (dBi)	ANT 2 Gain (dBi)	Power Directional Gain (dBi)
UNII 1	-3.20	-3.70	-0.44
UNII 2A	-3.20	-3.80	-0.48
UNII 2C	-6.20	-6.70	-3.44
UNII 3	-6.50	-6.40	-3.44

Note.

Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, \dots, G_N dBi
 Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi

4. Introduction

This report referenced from the FCC ID : A3LSMT575

Based on their similarity, the FCC Part 15C (equipment class: NII) reuses the original model's result and do spot-check, following the FCC KDB 484596 D01 v01.

And the applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID.

4.1 Difference

The FCC ID: A3LSMT577U shares the same enclosure and circuit board as FCC ID: A3LSMT575.

The WIFI/BT/BLE/NFC/WCDMA/LTE antenna and surrounding circuitry and layout are identical between these two units.

As for all bands, they have been verified and the parent model test results under FCC ID : A3LSMT575 shall remain representative of FCC ID : A3LSMT577U.

Note. The Product equality letter includes detailed information about the differences between FCC ID: A3LSMT575 and FCC ID: A3LSMT577U.

4.2 Spot check verification data (Band-edge & Spurious emission)

Test band	Test item	Test mode	Channel	Measured frequency (MHz)	SM-T575 (dB μ V)		SM-T577U/DS (dB μ V)		Deviation (dB)	
					Avg.	Peak	Avg.	Peak	Avg.	Peak
UNII-1	Band edge	802.11ax HE40 SU ANT1	38	4 500 ~ 5 150	45.10	55.67	45.08	52.77	0.02	2.90
	RSE	802.11ax HE20 SU ANT2	48	10 480	-	54.52	-	51.62	-	2.90
UNII-2A	Band edge	802.11ax HE40 SU ANT1	62	5 350 ~ 5 460	48.72	59.58	47.96	55.69	0.76	3.89
	RSE	802.11ax HE40 RU 26T offset 9 ANT1	62	10 620	45.53	55.30	39.28	47.61	6.25	7.69
UNII-2C	Band edge	802.11ax HE80 RU 484T offset 66 MIMO	122	5 725	-	61.64	-	60.53	-	1.11
	RSE	802.11ax HE20 RU 26T offset 0 ANT1	116	11 220	45.61	55.48	42.39	47.43	3.22	8.05
UNII-3	Band edge	802.11ax HE80 SU MIMO	155	5 725	-	62.81	-	60.44	-	2.37
	RSE	802.11ax HE40 RU 26T offset 9 ANT1	159	11 590	43.63	52.30	40.39	48.71	3.24	3.59

Notes.

- For FCC ID: A3LSMT577U has been verified the performance as for WIFI identical with the FCC ID: A3LSMT575.
- Comparison of two models, upper deviation is within 3 dB range and all test results are under FCC technical limits.
- The test procedure(s) in this report were performed in accordance as following.
 - ♦ KDB 484596 D01 v01

4.3 Reference Detail

Reference application that contains the reused reference data in the individual test reports.

Equipment Class	Reference FCC ID	Application Type	Reference Test report Number	Exhibit Type	Variant Test Report Number	Data Re-used
DTS	A3LSMT575	Original	KP20-SRF0209 (802.11b/g/n/ac)	Test report	KR20-SRF0255	All
			KP20-SRF0214 (802.11ax)	Test report	KR20-SRF0256	All
			KP20-SRF0208 (Bluetooth LE)	Test report	KR20-SRF0253	All
DSS	A3LSMT575	Original	KP20-SRF0207 (Bluetooth)	Test report	KR20-SRF0252	All
NII	A3LSMT575	Original	KP20-SRF0210 (802.11a/n/ac)	Test report	KR20-SRF0257	All
			KP20-SRF0215 (802.11ax)	Test report	KR20-SRF0258	All
			KR20-SRF0216 (DFS)	Test report	KR20-SRF0259	All
DXX	A3LSMT575	Original	KP20-SRF0211 (NFC)	Test report	KR20-SRF0254	All
PCB	A3LSMT575	Original	KP20-SRF0212 (2G, 3G)	Test report	KR20-SRF0260	Partial
			KP20-SRF0213 (LTE)	Test report	KR20-SRF0261	Partial

For this application the data reuse is summarized below for each equipment class

Equipment Class	Reference FCC ID	Application Type	Test Item	Data Re-used
DTS	A3LSMT575	Original	WLAN (802.11b/g/n/ac)	All
			WLAN (802.11ax)	All
			Bluetooth LE	All
DSS	A3LSMT575	Original	Bluetooth	All
NII	A3LSMT575	Original	WLAN (802.11a/n/ac)	All
			WLAN (802.11ax)	All
			WLAN (DFS)	All
DXX	A3LSMT575	Original	NFC	All
PCB	A3LSMT575	Original	2G, 3G	All except for 2G
			LTE	Band 66, Band 12, Band 5, Band 13 LTE 41 (PC 3)

5. Summary of tests

FCC Part section(s)	IC Rule Reference	Parameter	Test Condition	Test results
15.407(a)	RSS-247 Issue 2, 6.2	Maximum conducted output power	Conducted	Pass
15.407(a)	RSS-247 Issue 2, 6.2	Maximum power spectral density		Pass
15.407(a)	RSS-Gen Issue 5, 6.7	26 dB Channel Bandwidth		Pass
15.407(e)	RSS-247 Issue 2, 6.2.4	6 dB Channel Bandwidth		Pass
-	RSS-Gen Issue 5, 6.7	Occupied Bandwidth		Pass
15.207(a)	RSS-Gen Issue 5, 8.8	AC Conducted Emissions		Pass
15.407(b), 15.205(a), 15.209(a)	RSS-Gen Issue 5, 8.9, 8.10 RSS-247 Issue 2, 6.2,	Spurious emission Band-edge, restricted band	Radiated	Pass
				Pass

Notes.

1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
2. For AC Conducted emission, please refer to test report #KR20-SRF0257_04639_Samsung Electronics_SM-T577UDS_WiFi(P15.407).
3. According to exploratory test no any obvious emission were detected from 9 kHz to 30 MHz. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
4. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that **X** orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in **X** orientation.
5. All the radiated tests have been performed several case.
(Stand alone, with accessories (earphone, cover, TA etc.))
Worst case: stand alone
6. The test procedure(s) in this report were performed in accordance as following.
 - ANSI C63.10-2013
 - KDB 662911 D01 v02r01
 - KDB 789033 D02 v02r01
7. Based on the baseline scan, the worst-case data rates were:
 802.11ax HE20 mode: MCS0
 802.11ax HE40 mode: MCS0
 802.11ax HE80 mode: MCS0

6. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded uncertainty (\pm)	
Conducted RF power	1.3 dB	
Conducted spurious emissions	1.3 dB	
Radiated spurious emissions	9 kHz ~ 30 MHz:	2.3 dB
	30 MHz ~ 300 MHz	5.4 dB
	300 MHz ~ 1 000 MHz	5.5 dB
	1 GHz ~ 6 GHz	6.7 dB
Conducted emissions	9 kHz ~ 150 kHz	3.7 dB
	150 kHz ~ 30 MHz	3.3 dB

KCTL

7. Measurement results explanation example

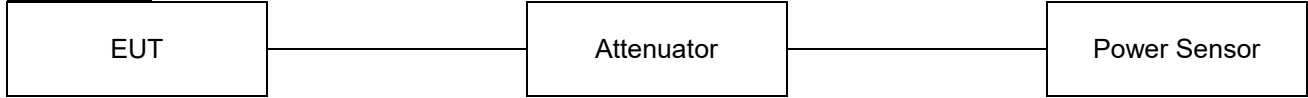
The offset level is set in the spectrum analyzer to compensate the RF cable loss factor between EUT conducted output port and spectrum analyzer.

With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Frequency (MHz)	Factor(dB)	Frequency (MHz)	Factor(dB)
30	9.29	9 000	12.34
50	9.36	10 000	12.61
100	9.43	11 000	12.79
200	9.55	12 000	12.81
300	9.64	13 000	12.85
400	9.73	14 000	12.99
500	9.80	15 000	13.10
600	9.85	16 000	13.52
700	9.89	17 000	13.55
800	9.94	18 000	13.74
900	10.03	19 000	13.77
1 000	10.09	20 000	13.82
2 000	10.93	21 000	14.14
3 000	11.21	22 000	14.44
4 000	11.54	23 000	14.64
5 000	11.89	24 000	14.71
6 000	12.17	25 000	15.01
7 000	12.05	26 000	15.06
8 000	12.26	26 500	15.10

Notes:

Offset(dB) = RF cable loss(dB) + Attenuator(dB)

8. Test results**8.1. Maximum conducted output power****Test setup****Limit**

According to §15.407(a), RSS-247(6.2)

FCC

Band	EUT category	Conducted output power limit
UNII-1	Outdoor access point	1 W (30 dBm)
	Indoor access point	
	Fixed point-to-point access point	
	√ Client device	250 mW (23.98 dBm)
UNII-2A	√	250 mW or 11 dBm + 10logB ¹⁾
UNII-2C	√	250 mW or 11 dBm + 10logB ¹⁾
UNII-3	√	1 W (30 dBm)

IC

Band	Maximum e.i.r.p. limit
UNII-1	200 mW or 10 + 10 log10B ²⁾ , dBm
UNII-2A	1 W or 17 dBm + 10logB ²⁾
UNII-2C	1 W or 17 dBm + 10logB ²⁾
UNII-3	1 W (30 dBm)

Note:

- 1) Conducted output power limit B is the 26 dB emission bandwidth.
- 2) Maximum e.i.r.p. limit B is the 99% emission bandwidth.

Test procedureANSI C63.10-2013-Section 12.3.3.2 and 14.2
KDB 789033 D02 v02r01 - Section E.2.d) or e)
KDB 662911 D01 v02r01 – Section E).1)

Test settings**◆ KDB 789033 D02 v02r01****Section E.2.d)****Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction):**

- (i) Measure the duty cycle, x , of the transmitter output signal as described in II.B..
- (ii) Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (iii) Set RBW = 1 MHz
- (iv) Set RBW \geq 3 MHz
- (v) Number of points in sweep $\geq 2 \times \text{span}/\text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- (vi) Sweep time = auto.
- (vii) Detector = power averaging (rms), if available. Otherwise use sample detector mode.
- (viii) Do not use sweep triggering. Allow the sweep to "free run."
- (ix) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
- (x) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (xi) Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \log(1/0,25) = 6$ dB if the duty cycle is 25%.

Section E.2.e)**Method SA-2 Alternative (power averaging(rms) detection with slow sweep with each spectrum bin averaging across on and off times of the EUT transmissions, followed by duty cycle correction):**

- (i) Measure the duty cycle, x , of the transmitter output signal as described in II.B..
- (ii) Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (iii) Set RBW = 1 MHz
- (iv) Set RBW \geq 3 MHz
- (v) Number of points in sweep $\geq 2 \times \text{span}/\text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- (vi) Manually set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
- (vii) Set detector = power averaging (rms)
- (viii) Perform a single sweep.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If

the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

- (x) Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25%.

Section E.3.a)

Method PM (Measurement using an RF average power meter):

- (xi) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.
- The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
 - At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
 - The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five
- (xii) If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in II
- (xiii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- (xiv) Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25%).

Section E.3.b)

Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Note:

Please refer to Appendix A for plots

Test results**802.11ax HE20 SISO in the UNII-1 band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
Low	5 180	26T	0	9.52	9.65	0.10	9.62	9.75	24.00
			4	9.93	10.04	0.10	10.03	10.14	24.00
			8	9.80	9.77	0.10	9.90	9.87	24.00
		52T	37	9.45	9.70	0.10	9.55	9.80	24.00
			38	9.87	9.89	0.10	9.97	9.99	24.00
			40	9.85	9.82	0.10	9.95	9.92	24.00
		106T	53	9.62	9.67	0.19	9.81	9.86	24.00
			54	9.73	9.77	0.19	9.92	9.96	24.00
		242T	61	9.94	9.10	0.60	10.54	9.70	24.00
		SU	-	13.82	13.40	0.60	14.42	14.00	24.00
Mid	5 200	26T	0	9.43	9.52	0.10	9.53	9.62	24.00
			4	9.76	9.78	0.10	9.86	9.88	24.00
			8	9.67	9.61	0.10	9.77	9.71	24.00
		52T	37	9.55	9.49	0.10	9.65	9.59	24.00
			38	9.60	9.66	0.10	9.70	9.76	24.00
			40	9.72	9.60	0.10	9.82	9.70	24.00
		106T	53	9.60	9.49	0.19	9.79	9.68	24.00
			54	9.55	9.58	0.19	9.74	9.77	24.00
		242T	61	9.79	9.09	0.60	10.39	9.69	24.00
		SU	-	13.77	13.33	0.60	14.37	13.93	24.00
High	5 240	26T	0	9.36	9.49	0.10	9.46	9.59	24.00
			4	9.68	9.79	0.10	9.78	9.89	24.00
			8	9.67	9.71	0.10	9.77	9.81	24.00
		52T	37	9.58	9.47	0.10	9.68	9.57	24.00
			38	9.57	9.69	0.10	9.67	9.79	24.00
			40	9.48	9.55	0.10	9.58	9.65	24.00
		106T	53	9.56	9.51	0.19	9.75	9.70	24.00
			54	9.51	9.58	0.19	9.70	9.77	24.00
		242T	61	9.78	9.10	0.60	10.38	9.70	24.00
		SU	-	13.64	13.28	0.60	14.24	13.88	24.00

Notes:

1. Conducted out power(dB m) = Measured power (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm) ANT 1	MAX e.i.r.p (dBm) ANT 2	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2			
Low	5 180	26T	0	9.62	9.75	-3.20	-3.70	6.42	6.05	22.64
			4	10.03	10.14			6.83	6.44	22.39
			8	9.90	9.87			6.70	6.17	22.69
		52T	37	9.55	9.80			6.35	6.10	22.61
			38	9.97	9.99			6.77	6.29	22.39
			40	9.95	9.92			6.75	6.22	22.66
		106T	53	9.81	9.86			6.61	6.16	22.61
			54	9.92	9.96			6.72	6.26	22.68
		242T	61	10.54	9.70			7.34	6.00	22.81
		SU	-	14.42	14.00			11.22	10.30	22.81
Mid	5 200	26T	0	9.53	9.62	-3.20	-3.70	6.33	5.92	22.67
			4	9.86	9.88			6.66	6.18	22.39
			8	9.77	9.71			6.57	6.01	22.70
		52T	37	9.65	9.59			6.45	5.89	22.62
			38	9.70	9.76			6.50	6.06	22.40
			40	9.82	9.70			6.62	6.00	22.69
		106T	53	9.79	9.68			6.59	5.98	22.61
			54	9.74	9.77			6.54	6.07	22.68
		242T	61	10.39	9.69			7.19	5.99	22.81
		SU	-	14.37	13.93			11.17	10.23	22.81
High	5 240	26T	0	9.46	9.59	-3.20	-3.70	6.26	5.89	22.66
			4	9.78	9.89			6.58	6.19	22.40
			8	9.77	9.81			6.57	6.11	22.71
		52T	37	9.68	9.57			6.48	5.87	22.64
			38	9.67	9.79			6.47	6.09	22.38
			40	9.58	9.65			6.38	5.95	22.69
		106T	53	9.75	9.70			6.55	6.00	22.61
			54	9.70	9.77			6.50	6.07	22.68
		242T	61	10.38	9.70			7.18	6.00	22.81
		SU	-	14.24	13.88			11.04	10.18	22.81

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE40 SISO in the UNII-1 band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
Low	5 190	26T	0	9.48	9.07	0.10	9.58	9.17	24.00
			9	10.19	9.96	0.10	10.29	10.06	24.00
			17	9.34	9.08	0.10	9.44	9.18	24.00
		52T	37	9.47	9.21	0.14	9.61	9.35	24.00
			41	10.22	9.98	0.14	10.36	10.12	24.00
			44	9.59	9.18	0.14	9.73	9.32	24.00
		106T	53	9.90	9.46	0.29	10.19	9.75	24.00
			54	10.40	10.21	0.29	10.69	10.50	24.00
			56	9.85	9.29	0.29	10.14	9.58	24.00
		242T	61	9.86	9.61	0.49	10.35	10.10	24.00
			62	9.71	9.31	0.49	10.20	9.80	24.00
		484T	65	9.33	8.59	0.88	10.21	9.47	24.00
		SU	-	12.42	11.82	0.88	13.30	12.70	24.00
High	5 230	26T	0	9.28	9.11	0.10	9.38	9.21	24.00
			9	10.30	10.15	0.10	10.40	10.25	24.00
			17	9.52	9.09	0.10	9.62	9.19	24.00
		52T	37	9.52	9.31	0.14	9.66	9.45	24.00
			41	10.24	10.08	0.14	10.38	10.22	24.00
			44	9.64	9.43	0.14	9.78	9.57	24.00
		106T	53	9.56	9.32	0.29	9.85	9.61	24.00
			54	10.34	10.20	0.29	10.63	10.49	24.00
			56	9.83	9.52	0.29	10.12	9.81	24.00
		242T	61	9.90	9.49	0.49	10.39	9.98	24.00
			62	9.79	9.62	0.49	10.28	10.11	24.00
		484T	65	9.32	8.48	0.88	10.20	9.36	24.00
		SU	-	12.31	11.77	0.88	13.19	12.65	24.00

Notes:

1. Conducted out power(dB m) = Measured power (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2	ANT 1	ANT 2	
Low	5 190	26T	0	9.58	9.17	-3.20	-3.70	6.38	5.47	22.90
			9	10.29	10.06			7.09	6.36	23.01
			17	9.44	9.18			6.24	5.48	22.98
		52T	37	9.61	9.35			6.41	5.65	22.81
			41	10.36	10.12			7.16	6.42	23.01
			44	9.73	9.32			6.53	5.62	22.98
		106T	53	10.19	9.75			6.99	6.05	22.85
			54	10.69	10.50			7.49	6.80	23.01
			56	10.14	9.58			6.94	5.88	22.98
		242T	61	10.35	10.10			7.15	6.40	23.01
			62	10.20	9.80			7.00	6.10	23.01
		484T	65	10.21	9.47			7.01	5.77	23.01
		SU	-	13.30	12.70			10.10	9.00	23.01
		High	5 230	26T	0			9.38	9.21	-3.20
9	10.40				10.25	7.20	6.55	23.01		
17	9.62				9.19	6.42	5.49	23.01		
52T	37			9.66	9.45	6.46	5.75	22.78		
	41			10.38	10.22	7.18	6.52	23.01		
	44			9.78	9.57	6.58	5.87	22.96		
106T	53			9.85	9.61	6.65	5.91	22.83		
	54			10.63	10.49	7.43	6.79	23.01		
	56			10.12	9.81	6.92	6.11	22.96		
242T	61			10.39	9.98	7.19	6.28	23.01		
	62			10.28	10.11	7.08	6.41	23.01		
484T	65			10.20	9.36	7.00	5.66	23.01		
SU	-			13.19	12.65	9.99	8.95	23.01		

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE80 SISO in the UNII-1 band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
Low	5 210	26T	0	9.49	9.01	0.09	9.58	9.10	24.00
			18	9.96	9.30	0.09	10.05	9.39	24.00
			36	9.37	8.93	0.09	9.46	9.02	24.00
		52T	37	9.62	9.10	0.13	9.75	9.23	24.00
			45	9.96	9.67	0.13	10.09	9.80	24.00
			52	9.49	9.21	0.13	9.62	9.34	24.00
		106T	53	9.73	9.35	0.20	9.93	9.55	24.00
			57	9.94	9.58	0.20	10.14	9.78	24.00
			60	9.54	9.25	0.20	9.74	9.45	24.00
		242T	61	9.89	9.50	0.61	10.50	10.11	24.00
			62	10.12	9.74	0.61	10.73	10.35	24.00
			64	9.61	9.43	0.61	10.22	10.04	24.00
		484T	65	9.28	9.01	0.76	10.04	9.77	24.00
			66	9.38	8.69	0.76	10.14	9.45	24.00
		996T	67	8.71	7.90	1.54	10.25	9.44	24.00
		SU	-	10.63	10.00	1.54	12.17	11.54	24.00

Notes:

1. Conducted out power(dB m) = Measured power (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2	ANT 1	ANT 2	
Low	5 210	26T	0	9.58	9.10	-3.20	-3.70	6.38	5.40	23.01
			18	10.05	9.39			6.85	5.69	23.01
			36	9.46	9.02			6.26	5.32	23.01
		52T	37	9.75	9.23			6.55	5.53	23.01
			45	10.09	9.80			6.89	6.10	23.01
			52	9.62	9.34			6.42	5.64	23.01
		106T	53	9.93	9.55			6.73	5.85	23.01
			57	10.14	9.78			6.94	6.08	23.01
			60	9.74	9.45			6.54	5.75	23.01
		242T	61	10.50	10.11			7.30	6.41	23.01
			62	10.73	10.35			7.53	6.65	23.01
			64	10.22	10.04			7.02	6.34	23.01
		484T	65	10.04	9.77			6.84	6.07	23.01
			66	10.14	9.45			6.94	5.75	23.01
		996T	67	10.25	9.44			7.05	5.74	23.01
		SU	-	12.17	11.54			8.97	7.84	23.01

Notes:

- e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
- The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE20 SISO in the UNII-2A band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
Low	5 260	26T	0	9.36	9.29	0.10	9.46	9.39	24.00
			4	9.65	9.54	0.10	9.75	9.64	23.70
			8	9.59	9.29	0.10	9.69	9.39	24.00
		52T	37	9.41	9.27	0.10	9.51	9.37	24.00
			38	9.59	9.67	0.10	9.69	9.77	23.78
			40	9.52	9.51	0.10	9.62	9.61	24.00
		106T	53	9.35	9.28	0.19	9.54	9.47	24.00
			54	9.54	9.29	0.19	9.73	9.48	24.00
		242T	61	9.94	8.94	0.60	10.54	9.54	24.00
		SU	-	13.65	13.15	0.60	14.25	13.75	24.00
Mid	5 280	26T	0	9.33	9.33	0.10	9.43	9.43	24.00
			4	9.70	9.60	0.10	9.80	9.70	23.68
			8	9.53	9.41	0.10	9.63	9.51	24.00
		52T	37	9.25	9.33	0.10	9.35	9.43	24.00
			38	9.64	9.47	0.10	9.74	9.57	23.81
			40	9.51	9.39	0.10	9.61	9.49	24.00
		106T	53	9.48	9.35	0.19	9.67	9.54	24.00
			54	9.54	9.36	0.19	9.73	9.55	24.00
		242T	61	9.95	9.01	0.60	10.55	9.61	24.00
		SU	-	13.65	13.13	0.60	14.25	13.73	24.00
High	5 320	26T	0	9.55	9.28	0.10	9.65	9.38	24.00
			4	10.01	9.51	0.10	10.11	9.61	23.68
			8	9.81	9.25	0.10	9.91	9.35	24.00
		52T	37	9.52	9.22	0.10	9.62	9.32	24.00
			38	9.70	9.41	0.10	9.80	9.51	23.77
			40	9.61	9.20	0.10	9.71	9.30	24.00
		106T	53	9.49	9.45	0.19	9.68	9.64	24.00
			54	9.85	9.22	0.19	10.04	9.41	24.00
		242T	61	9.76	8.98	0.60	10.36	9.58	24.00
		SU	-	13.55	13.12	0.60	14.15	13.72	24.00

Notes:

1. Conducted out power(dB m) = Measured power (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2	ANT 1	ANT 2	
Low	5 260	26T	0	9.46	9.39	-3.20	-3.80	6.26	5.59	29.64
			4	9.75	9.64			6.55	5.84	29.39
			8	9.69	9.39			6.49	5.59	29.73
		52T	37	9.51	9.37			6.31	5.57	29.61
			38	9.69	9.77			6.49	5.97	29.38
			40	9.62	9.61			6.42	5.81	29.68
		106T	53	9.54	9.47			6.34	5.67	29.62
			54	9.73	9.48			6.53	5.68	29.68
		242T	61	10.54	9.54			7.34	5.74	29.79
		SU	-	14.25	13.75			11.05	9.95	29.79
Mid	5 280	26T	0	9.43	9.43	-3.20	-3.80	6.23	5.63	29.66
			4	9.80	9.70			6.60	5.90	29.39
			8	9.63	9.51			6.43	5.71	29.71
		52T	37	9.35	9.43			6.15	5.63	29.63
			38	9.74	9.57			6.54	5.77	29.40
			40	9.61	9.49			6.41	5.69	29.68
		106T	53	9.67	9.54			6.47	5.74	29.62
			54	9.73	9.55			6.53	5.75	29.68
		242T	61	10.55	9.61			7.35	5.81	29.81
		SU	-	14.25	13.73			11.05	9.93	29.81
High	5 320	26T	0	9.65	9.38	-3.20	-3.80	6.45	5.58	29.66
			4	10.11	9.61			6.91	5.81	29.39
			8	9.91	9.35			6.71	5.55	29.71
		52T	37	9.62	9.32			6.42	5.52	29.62
			38	9.80	9.51			6.60	5.71	29.39
			40	9.71	9.30			6.51	5.50	29.67
		106T	53	9.68	9.64			6.48	5.84	29.61
			54	10.04	9.41			6.84	5.61	29.68
		242T	61	10.36	9.58			7.16	5.78	29.81
		SU	-	14.15	13.72			10.95	9.92	29.81

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE40 SISO in the UNII-2A band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
Low	5 270	26T	0	9.38	10.11	0.10	9.48	10.21	24.00
			9	10.13	9.74	0.10	10.23	9.84	24.00
			17	9.12	9.98	0.10	9.22	10.08	24.00
		52T	37	9.52	9.04	0.14	9.66	9.18	24.00
			41	10.25	9.73	0.14	10.39	9.87	24.00
			44	9.45	8.93	0.14	9.59	9.07	24.00
		106T	53	9.65	9.13	0.29	9.94	9.42	24.00
			54	10.22	9.68	0.29	10.51	9.97	24.00
			56	9.59	9.10	0.29	9.88	9.39	24.00
		242T	61	9.74	9.25	0.49	10.23	9.74	24.00
			62	9.65	9.06	0.49	10.14	9.55	24.00
		484T	65	9.44	8.37	0.88	10.32	9.25	24.00
		SU	-	12.13	11.61	0.88	13.01	12.49	24.00
High	5 310	26T	0	9.25	10.13	0.10	9.35	10.23	24.00
			9	10.18	9.50	0.10	10.28	9.60	24.00
			17	9.21	10.00	0.10	9.31	10.10	24.00
		52T	37	9.37	8.92	0.14	9.51	9.06	24.00
			41	10.21	9.41	0.14	10.35	9.55	24.00
			44	9.40	9.76	0.14	9.54	9.90	24.00
		106T	53	9.59	8.93	0.29	9.88	9.22	24.00
			54	10.22	9.43	0.29	10.51	9.72	24.00
			56	9.47	10.04	0.29	9.76	10.33	24.00
		242T	61	9.65	8.79	0.49	10.14	9.28	24.00
			62	9.55	8.81	0.49	10.04	9.30	24.00
		484T	65	9.16	8.31	0.88	10.04	9.19	24.00
		SU	-	12.09	11.63	0.88	12.97	12.51	24.00

Notes:

1. Conducted out power(dB m) = Measured power (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)				
						ANT 1	ANT 2	ANT 1	ANT 2					
Low	5 270	26T	0	9.48	10.21	-3.20	-3.80	6.28	6.41	29.83				
			9	10.23	9.84			7.03	6.04	30.00				
			17	9.22	10.08			6.02	6.28	29.98				
		52T	37	9.66	9.18			6.46	5.38	29.83				
			41	10.39	9.87			7.19	6.07	30.00				
			44	9.59	9.07			6.39	5.27	29.92				
		106T	53	9.94	9.42			6.74	5.62	29.85				
			54	10.51	9.97			7.31	6.17	30.00				
			56	9.88	9.39			6.68	5.59	30.00				
		242T	61	10.23	9.74			7.03	5.94	30.00				
			62	10.14	9.55			6.94	5.75	30.00				
		484T	65	10.32	9.25			7.12	5.45	30.00				
		SU	-	13.01	12.49			9.81	8.69	30.00				
		High	5 310	26T	0			9.35	10.23	-3.20	-3.80	6.15	6.43	29.74
					9			10.28	9.60			7.08	5.80	30.00
17	9.31				10.10	6.11	6.30	30.00						
52T	37			9.51	9.06	6.31	5.26	29.78						
	41			10.35	9.55	7.15	5.75	30.00						
	44			9.54	9.90	6.34	6.10	29.96						
106T	53			9.88	9.22	6.68	5.42	29.78						
	54			10.51	9.72	7.31	5.92	30.00						
	56			9.76	10.33	6.56	6.53	30.00						
242T	61			10.14	9.28	6.94	5.48	30.00						
	62			10.04	9.30	6.84	5.50	30.00						
484T	65			10.04	9.19	6.84	5.39	30.00						
SU	-			12.97	12.51	9.77	8.71	30.00						

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE80 SISO in the UNII-2A band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
Low	5 290	26T	0	9.21	9.98	0.09	9.30	10.07	24.00
			18	9.56	8.99	0.09	9.65	9.08	24.00
			36	9.37	9.84	0.09	9.46	9.93	24.00
		52T	37	9.57	10.24	0.13	9.70	10.37	24.00
			45	9.66	9.06	0.13	9.79	9.19	24.00
			52	9.37	10.04	0.13	9.50	10.17	24.00
		106T	53	9.44	8.99	0.20	9.64	9.19	24.00
			57	9.71	9.06	0.20	9.91	9.26	24.00
			60	9.53	10.02	0.20	9.73	10.22	24.00
		242T	61	9.57	9.01	0.61	10.18	9.62	24.00
			62	9.94	9.29	0.61	10.55	9.90	24.00
			64	9.56	8.83	0.61	10.17	9.44	24.00
		484T	65	9.18	8.52	0.76	9.94	9.28	24.00
			66	9.01	8.25	0.76	9.77	9.01	24.00
		996T	67	8.54	8.01	1.54	10.08	9.55	24.00
		SU	-	10.43	9.92	1.54	11.97	11.46	24.00

Notes:

1. Conducted out power(dB m) = Measured power (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2	ANT 1	ANT 2	
Low	5 210	26T	0	9.30	10.07	-3.20	-3.80	6.10	6.27	30.00
			18	9.65	9.08			6.45	5.28	30.00
			36	9.46	9.93			6.26	6.13	30.00
		52T	37	9.70	10.37			6.50	6.57	30.00
			45	9.79	9.19			6.59	5.39	30.00
			52	9.50	10.17			6.30	6.37	30.00
		106T	53	9.64	9.19			6.44	5.39	30.00
			57	9.91	9.26			6.71	5.46	30.00
			60	9.73	10.22			6.53	6.42	30.00
		242T	61	10.18	9.62			6.98	5.82	30.00
			62	10.55	9.90			7.35	6.10	30.00
			64	10.17	9.44			6.97	5.64	30.00
		484T	65	9.94	9.28			6.74	5.48	30.00
			66	9.77	9.01			6.57	5.21	30.00
		996T	67	10.08	9.55			6.88	5.75	30.00
		SU	-	11.97	11.46			8.77	7.66	30.00

Notes:

- e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
- The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE20 SISO in the UNII-2C band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
Low	5 500	26T	0	9.73	9.57	0.10	9.83	9.67	24.00
			4	9.95	9.74	0.10	10.05	9.84	23.69
			8	9.65	9.49	0.10	9.75	9.59	24.00
		52T	37	9.66	9.55	0.10	9.76	9.65	24.00
			38	9.76	9.67	0.10	9.86	9.77	23.78
			40	9.66	9.44	0.10	9.76	9.54	24.00
		106T	53	9.69	9.56	0.19	9.88	9.75	24.00
			54	9.56	9.51	0.19	9.75	9.70	24.00
		242T	61	9.61	9.48	0.60	10.21	10.08	24.00
		SU	-	13.43	13.48	0.60	14.03	14.08	24.00
Mid	5 580	26T	0	10.02	9.62	0.10	10.12	9.72	23.95
			4	10.12	9.70	0.10	10.22	9.80	23.66
			8	9.91	9.38	0.10	10.01	9.48	23.98
		52T	37	10.03	9.50	0.10	10.13	9.60	24.00
			38	10.09	9.65	0.10	10.19	9.75	23.81
			40	9.97	9.40	0.10	10.07	9.50	24.00
		106T	53	9.82	9.52	0.19	10.01	9.71	24.00
			54	9.86	9.45	0.19	10.05	9.64	24.00
		242T	61	9.72	9.38	0.60	10.32	9.98	24.00
		SU	-	13.69	13.61	0.60	14.29	14.21	24.00
High	5 700	26T	0	10.26	9.64	0.10	10.36	9.74	24.00
			4	10.39	9.79	0.10	10.49	9.89	23.66
			8	10.31	9.52	0.10	10.41	9.62	24.00
		52T	37	10.26	9.66	0.10	10.36	9.76	24.00
			38	10.38	9.78	0.10	10.48	9.88	23.79
			40	10.29	9.51	0.10	10.39	9.61	24.00
		106T	53	10.27	9.64	0.19	10.46	9.83	24.00
			54	10.26	9.61	0.19	10.45	9.80	24.00
		242T	61	9.75	9.36	0.60	10.35	9.96	24.00
		SU	-	13.95	14.02	0.60	14.55	14.62	24.00
Straddle	5 720	26T	0	9.87	9.52	0.10	9.97	9.62	23.96
			4	10.06	9.69	0.10	10.16	9.79	23.75
		52T	37	9.98	9.44	0.10	10.08	9.54	24.00
			38	10.07	9.44	0.10	10.17	9.54	23.79
		106T	53	9.77	9.28	0.19	9.96	9.47	24.00

Notes:

1. Conducted out power(dB m) = Measured power (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm) ANT 1	MAX e.i.r.p (dBm) ANT 2	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2			
Low	5 500	26T	0	9.83	9.67	-6.20	-6.70	3.63	2.97	29.66
			4	10.05	9.84			3.85	3.14	29.40
			8	9.75	9.59			3.55	2.89	29.71
		52T	37	9.76	9.65			3.56	2.95	29.62
			38	9.86	9.77			3.66	3.07	29.39
			40	9.76	9.54			3.56	2.84	29.67
		106T	53	9.88	9.75			3.68	3.05	29.62
			54	9.75	9.70			3.55	3.00	29.67
		242T	61	10.21	10.08			4.01	3.38	29.79
		SU	-	14.03	14.08			7.83	7.38	29.79
Mid	5 580	26T	0	10.12	9.72	3.92	3.02	29.64		
			4	10.22	9.80	4.02	3.10	29.38		
			8	10.01	9.48	3.81	2.78	29.69		
		52T	37	10.13	9.60	3.93	2.90	29.62		
			38	10.19	9.75	3.99	3.05	29.40		
			40	10.07	9.50	3.87	2.80	29.64		
		106T	53	10.01	9.71	3.81	3.01	29.61		
			54	10.05	9.64	3.85	2.94	29.67		
		242T	61	10.32	9.98	4.12	3.28	29.79		
		SU	-	14.29	14.21	8.09	7.51	29.79		
High	5 700	26T	0	10.36	9.74	4.16	3.04	29.66		
			4	10.49	9.89	4.29	3.19	29.39		
			8	10.41	9.62	4.21	2.92	29.70		
		52T	37	10.36	9.76	4.16	3.06	29.63		
			38	10.48	9.88	4.28	3.18	29.39		
			40	10.39	9.61	4.19	2.91	29.66		
		106T	53	10.46	9.83	4.26	3.13	29.62		
			54	10.45	9.80	4.25	3.10	29.67		
		242T	61	10.35	9.96	4.15	3.26	29.79		
		SU	-	14.55	14.62	8.35	7.92	29.79		
Straddle	5 720	26T	0	9.97	9.62	3.77	2.92	29.63		
			4	10.16	9.79	3.96	3.09	29.26		
		52T	37	10.08	9.54	3.88	2.84	29.60		
			38	10.17	9.54	3.97	2.84	29.32		
		106T	53	9.96	9.47	3.76	2.77	29.61		

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE40 SISO in the UNII-2C band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
Low	5 510	26T	0	9.25	9.13	0.10	9.35	9.23	24.00
			9	10.25	10.05	0.10	10.35	10.15	24.00
			17	9.24	9.02	0.10	9.34	9.12	24.00
		52T	37	9.40	8.97	0.14	9.54	9.11	24.00
			41	10.30	10.00	0.14	10.44	10.14	24.00
			44	9.45	8.94	0.14	9.59	9.08	24.00
		106T	53	9.58	9.16	0.29	9.87	9.45	24.00
			54	10.18	9.66	0.29	10.47	9.95	24.00
			56	9.58	9.21	0.29	9.87	9.50	24.00
		242T	61	9.67	9.20	0.49	10.16	9.69	24.00
			62	9.62	9.33	0.49	10.11	9.82	24.00
		484T	65	9.05	8.81	0.88	9.93	9.69	24.00
		SU	-	12.07	12.33	0.88	12.95	13.21	24.00
Mid	5 590	26T	0	9.29	9.01	0.10	9.39	9.11	24.00
			9	10.33	10.10	0.10	10.43	10.20	24.00
			17	9.20	8.90	0.10	9.30	9.00	24.00
		52T	37	9.42	9.21	0.14	9.56	9.35	24.00
			41	10.21	9.92	0.14	10.35	10.06	24.00
			44	9.26	8.98	0.14	9.40	9.12	24.00
		106T	53	9.62	9.19	0.29	9.91	9.48	24.00
			54	10.13	9.72	0.29	10.42	10.01	24.00
			56	9.46	9.15	0.29	9.75	9.44	24.00
		242T	61	9.66	9.22	0.49	10.15	9.71	24.00
			62	9.53	9.34	0.49	10.02	9.83	24.00
		484T	65	9.05	8.78	0.88	9.93	9.66	24.00
		SU	-	12.24	12.39	0.88	13.12	13.27	24.00
High	5 670	26T	0	9.42	9.12	0.10	9.52	9.22	24.00
			9	10.37	10.31	0.10	10.47	10.41	24.00
			17	9.22	9.11	0.10	9.32	9.21	24.00
		52T	37	9.64	9.22	0.14	9.78	9.36	24.00
			41	10.37	10.29	0.14	10.51	10.43	24.00
			44	9.40	9.21	0.14	9.54	9.35	24.00
		106T	53	9.83	9.34	0.29	10.12	9.63	24.00
			54	10.29	9.81	0.29	10.58	10.10	24.00
			56	9.51	9.42	0.29	9.80	9.71	24.00
		242T	61	9.86	9.36	0.49	10.35	9.85	24.00
			62	9.70	9.44	0.49	10.19	9.93	24.00
		484T	65	9.05	8.77	0.88	9.93	9.65	24.00
		SU	-	12.41	12.66	0.88	13.29	13.54	24.00

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
Straddle	5 710	26T	0	9.35	8.97	0.10	9.45	9.07	24.00
			9	10.21	9.95	0.10	10.31	10.05	24.00
		52T	37	9.61	9.15	0.14	9.75	9.29	24.00
			41	10.16	9.84	0.14	10.30	9.98	24.00
		106T	53	9.58	9.35	0.29	9.87	9.64	24.00
			54	10.04	9.88	0.29	10.33	10.17	24.00
		242T	61	9.59	9.46	0.49	10.08	9.95	24.00

Notes:

1. Conducted out power(dB m) = Measured power (dB m) + DCF(dB)

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e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm) ANT 1	MAX e.i.r.p (dBm) ANT 2	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2			
Low	5 510	26T	0	9.35	9.23	-6.20	-6.70	3.15	2.53	29.83
			9	10.35	10.15			4.15	3.45	30.00
			17	9.34	9.12			3.14	2.42	30.00
		52T	37	9.54	9.11			3.34	2.41	29.83
			41	10.44	10.14			4.24	3.44	30.00
			44	9.59	9.08			3.39	2.38	30.00
		106T	53	9.87	9.45			3.67	2.75	29.81
			54	10.47	9.95			4.27	3.25	30.00
			56	9.87	9.50			3.67	2.80	30.00
		242T	61	10.16	9.69			3.96	2.99	30.00
			62	10.11	9.82			3.91	3.12	30.00
		484T	65	9.93	9.69			3.73	2.99	30.00
		SU	-	12.95	13.21			6.75	6.51	30.00
Mid	5 590	26T	0	9.39	9.11	3.19	2.41	29.81		
			9	10.43	10.20	4.23	3.50	30.00		
			17	9.30	9.00	3.10	2.30	30.00		
		52T	37	9.56	9.35	3.36	2.65	29.81		
			41	10.35	10.06	4.15	3.36	30.00		
			44	9.40	9.12	3.20	2.42	30.00		
		106T	53	9.91	9.48	3.71	2.78	29.81		
			54	10.42	10.01	4.22	3.31	30.00		
			56	9.75	9.44	3.55	2.74	30.00		
		242T	61	10.15	9.71	3.95	3.01	30.00		
			62	10.02	9.83	3.82	3.13	30.00		
		484T	65	9.93	9.66	3.73	2.96	30.00		
		SU	-	13.12	13.27	6.92	6.57	30.00		
High	5 670	26T	0	9.52	9.22	3.32	2.52	29.78		
			9	10.47	10.41	4.27	3.71	30.00		
			17	9.32	9.21	3.12	2.51	30.00		
		52T	37	9.78	9.36	3.58	2.66	29.76		
			41	10.51	10.43	4.31	3.73	30.00		
			44	9.54	9.35	3.34	2.65	30.00		
		106T	53	10.12	9.63	3.92	2.93	29.83		
			54	10.58	10.10	4.38	3.40	30.00		
			56	9.80	9.71	3.60	3.01	30.00		
		242T	61	10.35	9.85	4.15	3.15	30.00		
			62	10.19	9.93	3.99	3.23	30.00		
		484T	65	9.93	9.65	3.73	2.95	30.00		
		SU	-	13.29	13.54	7.09	6.84	30.00		

Channel	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2	ANT 1	ANT 2	
Straddle	5 710	26T	0	9.45	9.07	-6.20	-6.70	3.25	2.37	29.87
			9	10.31	10.05			4.11	3.35	30.00
		52T	37	9.75	9.29			3.55	2.59	29.64
			41	10.30	9.98			4.10	3.28	30.00
		106T	53	9.87	9.64			3.67	2.94	29.57
			54	10.33	10.17			4.13	3.47	30.00
		242T	61	10.08	9.95			3.88	3.25	30.00

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

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**802.11ax HE80 SISO in the UNII-2C band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
Low	5 530	26T	0	9.30	9.07	0.09	9.39	9.16	24.00
			18	9.75	9.36	0.09	9.84	9.45	24.00
			36	9.20	9.14	0.09	9.29	9.23	24.00
		52T	37	9.44	9.18	0.13	9.57	9.31	24.00
			45	9.80	9.67	0.13	9.93	9.80	24.00
			52	9.39	9.23	0.13	9.52	9.36	24.00
		106T	53	9.47	9.35	0.20	9.67	9.55	24.00
			57	9.87	9.72	0.20	10.07	9.92	24.00
			60	9.50	9.38	0.20	9.70	9.58	24.00
		242T	61	9.57	9.22	0.61	10.18	9.83	24.00
			62	9.67	9.46	0.61	10.28	10.07	24.00
			64	9.46	9.55	0.61	10.07	10.16	24.00
		484T	65	9.10	8.71	0.76	9.86	9.47	24.00
			66	9.09	8.70	0.76	9.85	9.46	24.00
996T	67	8.44	8.17	1.54	9.98	9.71	24.00		
SU	-	10.35	10.36	1.54	11.89	11.90	24.00		
High	5 610	26T	0	9.40	9.23	0.09	9.49	9.32	24.00
			18	9.66	9.42	0.09	9.75	9.51	24.00
			36	9.32	9.16	0.09	9.41	9.25	24.00
		52T	37	9.41	9.38	0.13	9.54	9.51	24.00
			45	9.93	9.77	0.13	10.06	9.90	24.00
			52	9.46	9.26	0.13	9.59	9.39	24.00
		106T	53	9.44	9.40	0.20	9.64	9.60	24.00
			57	9.93	9.69	0.20	10.13	9.89	24.00
			60	9.59	9.34	0.20	9.79	9.54	24.00
		242T	61	9.56	9.23	0.61	10.17	9.84	24.00
			62	9.73	9.46	0.61	10.34	10.07	24.00
			64	9.54	9.62	0.61	10.15	10.23	24.00
		484T	65	9.06	8.78	0.76	9.82	9.54	24.00
			66	9.02	8.69	0.76	9.78	9.45	24.00
996T	67	8.44	8.12	1.54	9.98	9.66	24.00		
SU	-	10.55	10.41	1.54	12.09	11.95	24.00		

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
Straddle	5 690	26T	0	9.40	9.19	0.09	9.49	9.28	24.00
			18	9.62	9.40	0.09	9.71	9.49	24.00
		52T	37	9.47	9.30	0.13	9.60	9.43	24.00
			45	9.85	9.64	0.13	9.98	9.77	24.00
		106T	53	9.56	9.44	0.20	9.76	9.64	24.00
			57	9.85	9.67	0.20	10.05	9.87	24.00
		242T	61	9.62	9.25	0.61	10.23	9.86	24.00
			62	9.65	9.44	0.61	10.26	10.05	24.00
		484T	65	9.15	8.95	0.76	9.91	9.71	24.00

Notes:

1. Conducted out power(dB m) = Measured power (dB m) + DCF(dB)

KCTL

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2	ANT 1	ANT 2	
Low	5 530	26T	0	9.39	9.16	-6.20	-6.70	3.19	2.46	30.00
			18	9.84	9.45			3.64	2.75	30.00
			36	9.29	9.23			3.09	2.53	30.00
		52T	37	9.57	9.31			3.37	2.61	30.00
			45	9.93	9.80			3.73	3.10	30.00
			52	9.52	9.36			3.32	2.66	30.00
		106T	53	9.67	9.55			3.47	2.85	30.00
			57	10.07	9.92			3.87	3.22	30.00
			60	9.70	9.58			3.50	2.88	30.00
		242T	61	10.18	9.83			3.98	3.13	30.00
			62	10.28	10.07			4.08	3.37	30.00
			64	10.07	10.16			3.87	3.46	30.00
		484T	65	9.86	9.47			3.66	2.77	30.00
			66	9.85	9.46			3.65	2.76	30.00
		996T	67	9.98	9.71			3.78	3.01	30.00
		SU	-	11.89	11.90			5.69	5.20	30.00
High	5 610	26T	0	9.49	9.32	-6.20	-6.70	3.29	2.62	30.00
			18	9.75	9.51			3.55	2.81	30.00
			36	9.41	9.25			3.21	2.55	30.00
		52T	37	9.54	9.51			3.34	2.81	30.00
			45	10.06	9.90			3.86	3.20	30.00
			52	9.59	9.39			3.39	2.69	30.00
		106T	53	9.64	9.60			3.44	2.90	30.00
			57	10.13	9.89			3.93	3.19	30.00
			60	9.79	9.54			3.59	2.84	30.00
		242T	61	10.17	9.84			3.97	3.14	30.00
			62	10.34	10.07			4.14	3.37	30.00
			64	10.15	10.23			3.95	3.53	30.00
		484T	65	9.82	9.54			3.62	2.84	30.00
			66	9.78	9.45			3.58	2.75	30.00
		996T	67	9.98	9.66			3.78	2.96	30.00
		SU	-	12.09	11.95			5.89	5.25	30.00

Channel	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2	ANT 1	ANT 2	
Straddle	5 690	26T	0	9.49	9.28	-6.20	-6.70	3.29	2.58	30.00
			18	9.71	9.49			3.51	2.79	30.00
		52T	37	9.60	9.43			3.40	2.73	30.00
			45	9.98	9.77			3.78	3.07	30.00
		106T	53	9.76	9.64			3.56	2.94	30.00
			57	10.05	9.87			3.85	3.17	30.00
		242T	61	10.23	9.86			4.03	3.16	30.00
			62	10.26	10.05			4.06	3.35	30.00
		484T	65	9.91	9.71			3.71	3.01	30.00

Notes:

1. e.i.r.p. Calculation: $e.i.r.p. (dBm) = \text{Conducted output power (dBm)} + \text{Antenna gain (dBi)}$
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

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**802.11ax HE20 SISO in the UNII-3 band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
Straddle	5 720	26T	8	9.53	9.19	0.10	9.63	9.29	30.00
		52T	40	9.71	9.42	0.10	9.81	9.52	30.00
Low	5 745	26T	0	10.39	10.29	0.10	10.49	10.39	30.00
			4	10.49	10.34	0.10	10.59	10.44	30.00
			8	10.27	10.15	0.10	10.37	10.25	30.00
		52T	37	10.36	10.28	0.10	10.46	10.38	30.00
			38	10.50	10.32	0.10	10.60	10.42	30.00
			40	10.32	10.16	0.10	10.42	10.26	30.00
		106T	53	10.37	10.26	0.19	10.56	10.45	30.00
			54	10.27	10.21	0.19	10.46	10.40	30.00
		242T	61	9.75	9.83	0.60	10.35	10.43	30.00
		SU	-	14.05	14.23	0.60	14.65	14.83	30.00
Mid	5 785	26T	0	10.43	10.11	0.10	10.53	10.21	30.00
			4	10.68	10.48	0.10	10.78	10.58	30.00
			8	10.31	10.06	0.10	10.41	10.16	30.00
		52T	37	10.36	10.11	0.10	10.46	10.21	30.00
			38	10.58	10.35	0.10	10.68	10.45	30.00
			40	10.34	10.07	0.10	10.44	10.17	30.00
		106T	53	10.40	10.14	0.19	10.59	10.33	30.00
			54	10.36	10.16	0.19	10.55	10.35	30.00
		242T	61	9.80	9.95	0.60	10.40	10.55	30.00
		SU	-	14.19	14.35	0.60	14.79	14.95	30.00
High	5 825	26T	0	10.36	10.03	0.10	10.46	10.13	30.00
			4	10.71	10.45	0.10	10.81	10.55	30.00
			8	10.40	10.09	0.10	10.50	10.19	30.00
		52T	37	10.39	10.05	0.10	10.49	10.15	30.00
			38	10.60	10.22	0.10	10.70	10.32	30.00
			40	10.33	10.05	0.10	10.43	10.15	30.00
		106T	53	10.40	10.05	0.19	10.59	10.24	30.00
			54	10.39	10.08	0.19	10.58	10.27	30.00
		242T	61	9.76	10.11	0.60	10.36	10.71	30.00
		SU	-	14.13	14.29	0.60	14.73	14.89	30.00

Notes:

1. Conducted out power(dB m) = Measured power (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)		
						ANT 1	ANT 2	ANT 1	ANT 2			
Straddle	5 720	26T	8	9.63	9.29	-6.50	-6.40	3.13	2.89	30.00		
		52T	40	9.81	9.52			3.31	3.12	30.00		
Low	5 745	26T	0	10.49	10.39			3.99	3.99	30.00		
			4	10.59	10.44			4.09	4.04	30.00		
			8	10.37	10.25			3.87	3.85	30.00		
		52T	37	10.46	10.38			3.96	3.98	30.00		
			38	10.60	10.42			4.10	4.02	30.00		
			40	10.42	10.26			3.92	3.86	30.00		
		106T	53	10.56	10.45			4.06	4.05	30.00		
			54	10.46	10.40			3.96	4.00	30.00		
		242T	61	10.35	10.43			3.85	4.03	30.00		
		SU	-	14.65	14.83			8.15	8.43	30.00		
		Mid	5 785	26T	0			10.53	10.21	4.03	3.81	30.00
					4			10.78	10.58	4.28	4.18	30.00
8	10.41				10.16			3.91	3.76	30.00		
52T	37			10.46	10.21			3.96	3.81	30.00		
	38			10.68	10.45			4.18	4.05	30.00		
	40			10.44	10.17			3.94	3.77	30.00		
106T	53			10.59	10.33			4.09	3.93	30.00		
	54			10.55	10.35			4.05	3.95	30.00		
242T	61			10.40	10.55	3.90	4.15	30.00				
SU	-			14.79	14.95	8.29	8.55	30.00				
High	5 825	26T	0	10.46	10.13	3.96	3.73	30.00				
			4	10.81	10.55	4.31	4.15	30.00				
			8	10.50	10.19	4.00	3.79	30.00				
		52T	37	10.49	10.15	3.99	3.75	30.00				
			38	10.70	10.32	4.20	3.92	30.00				
			40	10.43	10.15	3.93	3.75	30.00				
		106T	53	10.59	10.24	4.09	3.84	30.00				
			54	10.58	10.27	4.08	3.87	30.00				
		242T	61	10.36	10.71	3.86	4.31	30.00				
		SU	-	14.73	14.89	8.23	8.49	30.00				

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)

**802.11ax HE40 SISO in the UNII-3 band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
Straddle	5 710	26T	17	9.01	9.10	0.10	9.11	9.20	30.00
		52T	44	9.24	8.96	0.14	9.38	9.10	30.00
Low	5 755	26T	0	9.51	9.75	0.10	9.61	9.85	30.00
			9	10.66	10.69	0.10	10.76	10.79	30.00
			17	9.46	9.64	0.10	9.56	9.74	30.00
		52T	37	9.68	9.84	0.14	9.82	9.98	30.00
			41	10.47	10.59	0.14	10.61	10.73	30.00
			44	9.72	9.80	0.14	9.86	9.94	30.00
		106T	53	9.84	10.00	0.29	10.13	10.29	30.00
			54	10.36	10.56	0.29	10.65	10.85	30.00
			56	9.81	10.01	0.29	10.10	10.30	30.00
		242T	61	9.88	10.06	0.49	10.37	10.55	30.00
			62	9.92	10.13	0.49	10.41	10.62	30.00
		484T	65	9.30	9.53	0.88	10.18	10.41	30.00
		SU	-	12.78	12.83	0.88	13.66	13.71	30.00
		High	5 795	26T	0	9.16	9.47	0.10	9.26
9	10.65				10.84	0.10	10.75	10.94	30.00
17	9.22				9.29	0.10	9.32	9.39	30.00
52T	37			9.42	9.54	0.14	9.56	9.68	30.00
	41			10.58	10.80	0.14	10.72	10.94	30.00
	44			9.42	9.25	0.14	9.56	9.39	30.00
106T	53			9.67	9.60	0.29	9.96	9.89	30.00
	54			10.46	10.51	0.29	10.75	10.80	30.00
	56			9.66	9.62	0.29	9.95	9.91	30.00
242T	61			9.95	9.88	0.49	10.44	10.37	30.00
	62			9.91	9.87	0.49	10.40	10.36	30.00
484T	65			9.36	9.55	0.88	10.24	10.43	30.00
SU	-			12.78	12.93	0.88	13.66	13.81	30.00

Notes:

1. Conducted out power(dB m) = Measured power (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2	ANT 1	ANT 2	
Straddle	5 710	26T	17	9.11	9.20	-6.50	-6.40	2.61	2.80	30.00
		52T	44	9.38	9.10			2.88	2.70	30.00
Low	5 755	26T	0	9.61	9.85			3.11	3.45	30.00
			9	10.76	10.79			4.26	4.39	30.00
			17	9.56	9.74			3.06	3.34	30.00
		52T	37	9.82	9.98			3.32	3.58	30.00
			41	10.61	10.73			4.11	4.33	30.00
			44	9.86	9.94			3.36	3.54	30.00
		106T	53	10.13	10.29			3.63	3.89	30.00
			54	10.65	10.85			4.15	4.45	30.00
			56	10.10	10.30			3.60	3.90	30.00
		242T	61	10.37	10.55			3.87	4.15	30.00
			62	10.41	10.62			3.91	4.22	30.00
		484T	65	10.18	10.41			3.68	4.01	30.00
		SU	-	13.66	13.71			7.16	7.31	30.00
		High	5 795	26T	0			9.26	9.57	2.76
9	10.75				10.94			4.25	4.54	30.00
17	9.32				9.39			2.82	2.99	30.00
52T	37			9.56	9.68			3.06	3.28	30.00
	41			10.72	10.94			4.22	4.54	30.00
	44			9.56	9.39	3.06	2.99	30.00		
106T	53			9.96	9.89	3.46	3.49	30.00		
	54			10.75	10.80	4.25	4.40	30.00		
	56			9.95	9.91	3.45	3.51	30.00		
242T	61			10.44	10.37	3.94	3.97	30.00		
	62			10.40	10.36	3.90	3.96	30.00		
484T	65			10.24	10.43	3.74	4.03	30.00		
SU	-			13.66	13.81	7.16	7.41	30.00		

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)

**802.11ax HE80 SISO in the UNII-3 band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
Straddle	5 690	26T	36	9.11	9.04	0.09	9.20	9.13	30.00
		52T	52	9.28	9.01	0.13	9.41	9.14	30.00
Low	5 775	26T	0	9.41	9.79	0.09	9.50	9.88	30.00
			18	9.96	10.27	0.09	10.05	10.36	30.00
			36	9.59	9.90	0.09	9.68	9.99	30.00
		52T	37	9.61	9.86	0.13	9.74	9.99	30.00
			45	10.11	10.43	0.13	10.24	10.56	30.00
			52	9.87	9.84	0.13	10.00	9.97	30.00
		106T	53	9.73	9.95	0.20	9.93	10.15	30.00
			57	10.14	10.46	0.20	10.34	10.66	30.00
			60	9.88	10.12	0.20	10.08	10.32	30.00
		242T	61	9.68	10.05	0.61	10.29	10.66	30.00
			62	10.00	10.09	0.61	10.61	10.70	30.00
			64	9.98	10.06	0.61	10.59	10.67	30.00
		484T	65	9.32	9.62	0.76	10.08	10.38	30.00
			66	9.49	9.54	0.76	10.25	10.30	30.00
		996T	67	8.69	8.55	1.54	10.23	10.09	30.00
		SU	-	10.95	10.85	1.54	12.49	12.39	30.00

Notes:

1. Conducted out power(dB m) = Measured power (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2	ANT 1	ANT 2	
Straddle	5 690	26T	36	9.20	9.13	-6.50	-6.40	2.70	2.73	30.00
		52T	52	9.41	9.14			2.91	2.74	30.00
26T	0	9.50	9.88	3.00	3.48			30.00		
	18	10.05	10.36	3.55	3.96			30.00		
	36	9.68	9.99	3.18	3.59			30.00		
52T	37	9.74	9.99	3.24	3.59			30.00		
	45	10.24	10.56	3.74	4.16			30.00		
	52	10.00	9.97	3.50	3.57			30.00		
106T	53	9.93	10.15	3.43	3.75			30.00		
	57	10.34	10.66	3.84	4.26			30.00		
	60	10.08	10.32	3.58	3.92			30.00		
242T	61	10.29	10.66	3.79	4.26			30.00		
	62	10.61	10.70	4.11	4.30			30.00		
	64	10.59	10.67	4.09	4.27			30.00		
484T	65	10.08	10.38	3.58	3.98			30.00		
	66	10.25	10.30	3.75	3.90			30.00		
996T	67	10.23	10.09	3.73	3.69			30.00		
SU	-	12.49	12.39	5.99	5.99			30.00		

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)

**802.11ax HE20 SISO in the Straddle
Conducted Output Power**

Band	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
UNII-2C	5 720	106T	54	6.84	6.24	0.19	7.03	6.43	22.90
		SU	-	9.11	8.54	0.60	9.71	9.14	22.98
UNII-3		106T	54	7.47	6.89	0.19	7.66	7.08	30.00
		SU	-	3.84	3.36	0.60	4.44	3.96	30.00

**802.11ax HE40 SISO in the Straddle
Conducted Output Power**

Band	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
UNII-2C	5 710	106T	56	7.32	6.92	0.29	7.61	7.21	23.98
		242T	62	8.77	8.56	0.49	9.26	9.05	23.98
		SU	-	9.28	8.78	0.88	10.16	9.66	23.98
UNII-3		106T	56	6.46	6.15	0.29	6.75	6.44	30.00
		242T	62	2.4	2.1	0.49	2.89	2.59	30.00
		SU	-	-0.71	-1.2	0.88	0.17	-0.32	30.00

**802.11ax HE80 SISO in the Straddle
Conducted Output Power**

Band	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power ANT 1 (dBm)	Conducted output power ANT 2 (dBm)	Conducted Power Limit (dBm)
							Average	Average	
UNII-2C	5 690	106T	60	6.95	6.88	0.20	7.15	7.08	23.98
		242T	64	9.08	8.52	0.61	9.69	9.13	23.98
		484T	66	9.41	8.62	0.76	10.17	9.38	23.98
		SU	-	9.04	8.35	1.54	10.58	9.89	23.98
UNII-3		106T	60	6.28	6.24	0.20	6.48	6.44	30.00
		242T	64	2.74	2.16	0.61	3.35	2.77	30.00
		484T	66	-1.09	-1.86	0.76	-0.33	-1.10	30.00
		SU	-	-5.06	-5.79	1.54	-3.52	-4.25	30.00

Notes:

1. Conducted out power(dB m) = Measured power (dB m) + DCF(dB)

802.11ax HE20 SISO in the Straddle
e.i.r.p.

Band	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2	ANT 1	ANT 2	
UNII-2C	5 720	106T	54	7.03	6.43	-6.20	-6.70	0.83	-0.27	28.33
		SU	-	9.71	9.14			3.51	2.44	28.63
UNII-3		106T	54	7.66	7.08	-6.50	-6.40	1.16	0.68	30.00
		SU	-	4.44	3.96			-2.06	-2.44	30.00

802.11ax HE40 SISO in the Straddle
e.i.r.p.

Band	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2	ANT 1	ANT 2	
UNII-2C	5 710	106T	56	7.61	7.21	-6.20	-6.70	1.41	0.51	28.43
		242T	62	9.26	9.05			3.06	2.35	29.15
		SU	-	10.16	9.66			3.96	2.96	30.00
UNII-3		106T	56	6.75	6.44	-6.50	-6.40	0.25	0.04	30.00
		242T	62	2.89	2.59			-3.61	-3.81	30.00
		SU	-	0.17	-0.32			-6.33	-6.72	30.00

802.11ax HE80 SISO in the Straddle
e.i.r.p.

Band	Frequency (MHz)	Tones	RU offset	Conducted output ANT 1 (dBm)	Conducted output ANT 2 (dBm)	ANT gain (dBi)		MAX e.i.r.p (dBm)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
						ANT 1	ANT 2	ANT 1	ANT 2	
UNII-2C	5 690	106T	60	7.15	7.08	-6.20	-6.70	0.95	0.38	30.00
		242T	64	9.69	9.13			3.49	2.43	30.00
		484T	66	10.17	9.38			3.97	2.68	30.00
		SU	-	10.58	9.89			4.38	3.19	30.00
UNII-3		106T	60	6.48	6.44	-6.50	-6.40	-0.02	0.04	30.00
		242T	64	3.35	2.77			-3.15	-3.63	30.00
		484T	66	-0.33	-1.10			-6.83	-7.50	30.00
		SU	-	-3.52	-4.25			-10.02	-10.65	30.00

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE20 MIMO in the UNII-1 band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
Low	5 180	26T	0	10.52	9.24	0.11	13.05	24.00
			4	10.78	9.51	0.11	13.31	24.00
			8	10.63	9.20	0.11	13.09	24.00
		52T	37	10.24	9.23	0.23	13.00	24.00
			38	10.70	9.46	0.23	13.36	24.00
			40	10.61	9.32	0.23	13.25	24.00
		106T	53	10.19	9.16	0.39	13.11	24.00
			54	10.20	9.27	0.39	13.16	24.00
		242T	61	9.48	8.73	0.87	13.00	24.00
		SU	-	13.39	13.44	0.87	17.30	24.00
Mid	5 200	26T	0	10.09	9.37	0.11	12.87	24.00
			4	10.63	9.41	0.11	13.18	24.00
			8	10.43	9.31	0.11	13.03	24.00
		52T	37	10.18	9.15	0.23	12.94	24.00
			38	10.38	9.26	0.23	13.10	24.00
			40	10.24	9.24	0.23	13.01	24.00
		106T	53	10.24	9.05	0.39	13.09	24.00
			54	10.25	9.15	0.39	13.14	24.00
		242T	61	9.54	9.00	0.87	13.16	24.00
		SU	-	13.34	13.37	0.87	17.24	24.00
High	5 240	26T	0	10.14	9.07	0.11	12.76	24.00
			4	10.12	9.38	0.11	12.89	24.00
			8	10.30	9.37	0.11	12.98	24.00
		52T	37	10.23	9.22	0.23	12.99	24.00
			38	10.38	9.28	0.23	13.11	24.00
			40	10.25	9.10	0.23	12.95	24.00
		106T	53	10.21	9.05	0.39	13.07	24.00
			54	10.27	9.10	0.39	13.12	24.00
		242T	61	9.67	8.70	0.87	13.09	24.00
		SU	-	13.22	13.42	0.87	17.20	24.00

Note:

1. Conducted Output power(dB m) = $10\log(10^{(ANT\ 1/10)} + 10^{(ANT\ 2/10)})$ (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
Low	5 180	26T	0	13.05	-0.44	12.61	22.64
			4	13.31		12.87	22.39
			8	13.09		12.65	22.69
		52T	37	13.00		12.56	22.61
			38	13.36		12.92	22.39
			40	13.25		12.81	22.66
		106T	53	13.11		12.67	22.61
			54	13.16		12.72	22.68
		242T	61	13.00		12.56	22.81
		SU	-	17.30		16.86	22.81
Mid	5 200	26T	0	12.87	12.43	22.67	
			4	13.18	12.74	22.39	
			8	13.03	12.59	22.70	
		52T	37	12.94	12.50	22.62	
			38	13.10	12.66	22.40	
			40	13.01	12.57	22.69	
		106T	53	13.09	12.65	22.61	
			54	13.14	12.70	22.68	
		242T	61	13.16	12.72	22.81	
		SU	-	17.24	16.80	22.81	
High	5 240	26T	0	12.76	12.32	22.66	
			4	12.89	12.45	22.40	
			8	12.98	12.54	22.71	
		52T	37	12.99	12.55	22.64	
			38	13.11	12.67	22.38	
			40	12.95	12.51	22.69	
		106T	53	13.07	12.63	22.61	
			54	13.12	12.68	22.68	
		242T	61	13.09	12.65	22.81	
		SU	-	17.20	16.76	22.81	

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE40 MIMO in the UNII-1 band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
Low	5 190	26T	0	10.18	8.65	0.11	12.60	24.00
			9	11.29	9.77	0.11	13.72	24.00
			17	10.30	8.88	0.11	12.77	24.00
		52T	37	10.38	8.71	0.23	12.87	24.00
			41	11.31	9.73	0.23	13.83	24.00
			44	10.20	9.05	0.23	12.90	24.00
		106T	53	10.51	8.90	0.47	13.26	24.00
			54	10.71	9.54	0.47	13.64	24.00
			56	10.14	9.12	0.47	13.14	24.00
		242T	61	10.18	9.03	0.72	13.37	24.00
			62	9.90	8.83	0.72	13.13	24.00
		484T	65	8.88	8.11	1.44	12.96	24.00
		SU	-	12.03	11.68	1.44	16.31	24.00
		High	5 230	26T	0	9.96	8.49	0.11
9	10.83				9.66	0.11	13.40	24.00
17	9.80				8.65	0.11	12.38	24.00
52T	37			10.23	8.67	0.23	12.76	24.00
	41			10.81	9.62	0.23	13.50	24.00
	44			10.05	8.89	0.23	12.75	24.00
106T	53			10.02	8.82	0.47	12.94	24.00
	54			10.72	9.25	0.47	13.53	24.00
	56			10.16	9.01	0.47	13.10	24.00
242T	61			10.16	8.64	0.72	13.20	24.00
	62			10.05	8.88	0.72	13.23	24.00
484T	65			8.81	8.20	1.44	12.97	24.00
SU	-			12.09	11.56	1.44	16.28	24.00

Note:

1. Conducted Output power(dB m) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)		
Low	5 190	26T	0	12.60	-0.44	12.16	22.90		
			9	13.72		13.28	23.01		
			17	12.77		12.33	22.98		
		52T	37	12.87		12.43	22.81		
			41	13.83		13.39	23.01		
			44	12.90		12.46	22.98		
		106T	53	13.26		12.82	22.85		
			54	13.64		13.20	23.01		
			56	13.14		12.70	22.98		
		242T	61	13.37		12.93	23.01		
			62	13.13		12.69	23.01		
		484T	65	12.96		12.52	23.01		
		SU	-	16.31		15.87	23.01		
		High	5 230	26T		0	12.41	11.97	22.87
						9	13.40	12.96	23.01
						17	12.38	11.94	23.01
52T	37			12.76	12.32	22.78			
	41			13.50	13.06	23.01			
	44			12.75	12.31	22.96			
106T	53			12.94	12.50	22.83			
	54			13.53	13.09	23.01			
	56			13.10	12.66	22.96			
242T	61			13.20	12.76	23.01			
	62			13.23	12.79	23.01			
484T	65			12.97	12.53	23.01			
SU	-			16.28	15.84	23.01			

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE80 MIMO in the UNII-1 band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
Low	5 210	26T	0	10.04	8.88	0.14	12.65	24.00
			18	10.42	9.23	0.14	13.02	24.00
			36	9.75	8.98	0.14	12.53	24.00
		52T	37	10.18	9.10	0.31	12.99	24.00
			45	10.44	9.39	0.31	13.27	24.00
			52	9.90	8.95	0.31	12.77	24.00
		106T	53	10.06	9.03	0.41	13.00	24.00
			57	10.39	9.38	0.41	13.33	24.00
			60	9.82	9.07	0.41	12.88	24.00
		242T	61	10.17	9.08	0.98	13.65	24.00
			62	10.18	9.14	0.98	13.68	24.00
			64	9.88	9.15	0.98	13.52	24.00
		484T	65	9.44	8.34	1.15	13.09	24.00
			66	9.17	8.29	1.15	12.91	24.00
		996T	67	8.00	7.23	2.09	12.73	24.00
		SU	-	10.17	9.77	2.09	15.07	24.00

Note:

1. Conducted Output power(dB m) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
Low	5 210	26T	0	12.65	-0.44	12.21	23.01
			18	13.02		12.58	23.01
			36	12.53		12.09	23.01
		52T	37	12.99		12.55	23.01
			45	13.27		12.83	23.01
			52	12.77		12.33	23.01
		106T	53	13.00		12.56	23.01
			57	13.33		12.89	23.01
			60	12.88		12.44	23.01
		242T	61	13.65		13.21	23.01
			62	13.68		13.24	23.01
			64	13.52		13.08	23.01
		484T	65	13.09		12.65	23.01
			66	12.91		12.47	23.01
		996T	67	12.73		12.29	23.01
		SU	-	15.07		14.63	23.01

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE20 MIMO in the UNII-2A band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
Low	5 260	26T	0	10.47	8.86	0.11	12.86	24.00
			4	10.35	9.20	0.11	12.93	23.70
			8	10.52	8.91	0.11	12.91	24.00
		52T	37	10.37	8.90	0.23	12.94	24.00
			38	10.34	9.16	0.23	13.03	23.78
			40	10.37	8.95	0.23	12.96	24.00
		106T	53	10.40	8.92	0.39	13.12	24.00
			54	10.16	8.97	0.39	13.01	24.00
		242T	61	9.49	8.48	0.87	12.89	24.00
		SU	-	13.36	13.08	0.87	17.10	24.00
Mid	5 280	26T	0	10.26	8.83	0.11	12.72	24.00
			4	10.50	9.15	0.11	13.00	23.68
			8	10.32	8.94	0.11	12.80	24.00
		52T	37	10.25	8.85	0.23	12.85	24.00
			38	10.43	9.10	0.23	13.06	23.81
			40	10.35	8.95	0.23	12.95	24.00
		106T	53	10.31	8.90	0.39	13.06	24.00
			54	10.29	8.99	0.39	13.09	24.00
		242T	61	9.49	8.53	0.87	12.92	24.00
		SU	-	13.36	13.13	0.87	17.13	24.00
High	5 320	26T	0	10.23	8.88	0.11	12.73	24.00
			4	10.41	9.21	0.11	12.97	23.68
			8	10.14	9.00	0.11	12.73	24.00
		52T	37	10.33	8.94	0.23	12.93	24.00
			38	10.48	9.10	0.23	13.08	23.77
			40	10.24	8.91	0.23	12.87	24.00
		106T	53	10.11	8.93	0.39	12.96	24.00
			54	10.08	8.70	0.39	12.84	24.00
		242T	61	9.42	8.74	0.87	12.97	24.00
		SU	-	13.21	12.97	0.87	16.97	24.00

Note:

1. Conducted Output power(dB m) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
Low	5 260	26T	0	12.86	-0.48	12.38	29.64
			4	12.93		12.45	29.39
			8	12.91		12.43	29.73
		52T	37	12.94		12.46	29.61
			38	13.03		12.55	29.38
			40	12.96		12.48	29.68
		106T	53	13.12		12.64	29.62
			54	13.01		12.53	29.68
		242T	61	12.89		12.41	29.79
		SU	-	17.10		16.62	29.79
Mid	5 280	26T	0	12.72	12.24	29.66	
			4	13.00	12.52	29.39	
			8	12.80	12.32	29.71	
		52T	37	12.85	12.37	29.63	
			38	13.06	12.58	29.40	
			40	12.95	12.47	29.68	
		106T	53	13.06	12.58	29.62	
			54	13.09	12.61	29.68	
		242T	61	12.92	12.44	29.81	
		SU	-	17.13	16.65	29.81	
High	5 320	26T	0	12.73	12.25	29.66	
			4	12.97	12.49	29.39	
			8	12.73	12.25	29.71	
		52T	37	12.93	12.45	29.62	
			38	13.08	12.60	29.39	
			40	12.87	12.39	29.67	
		106T	53	12.96	12.48	29.61	
			54	12.84	12.36	29.68	
		242T	61	12.97	12.49	29.81	
		SU	-	16.97	16.49	29.81	

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE40 MIMO in the UNII-2A band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
Low	5 270	26T	0	9.80	8.45	0.11	12.30	24.00
			9	10.75	9.31	0.11	13.21	24.00
			17	9.61	8.25	0.11	12.10	24.00
		52T	37	9.97	8.44	0.23	12.51	24.00
			41	10.83	9.25	0.23	13.35	24.00
			44	9.85	8.47	0.23	12.45	24.00
		106T	53	10.15	8.63	0.47	12.94	24.00
			54	10.69	9.22	0.47	13.50	24.00
			56	9.82	8.61	0.47	12.74	24.00
		242T	61	10.02	8.64	0.72	13.11	24.00
			62	9.80	8.47	0.72	12.92	24.00
		484T	65	8.82	7.99	1.44	12.88	24.00
		SU	-	11.84	11.62	1.44	16.18	24.00
		High	5 310	26T	0	9.92	8.44	0.11
9	10.74				9.22	0.11	13.17	24.00
17	9.55				8.15	0.11	12.03	24.00
52T	37			10.12	8.37	0.23	12.57	24.00
	41			10.50	9.19	0.23	13.13	24.00
	44			9.64	8.34	0.23	12.28	24.00
106T	53			10.09	8.56	0.47	12.87	24.00
	54			10.62	9.11	0.47	13.41	24.00
	56			9.80	8.58	0.47	12.71	24.00
242T	61			9.97	8.43	0.72	13.00	24.00
	62			9.81	8.50	0.72	12.93	24.00
484T	65			8.70	7.69	1.44	12.67	24.00
SU	-			11.91	11.59	1.44	16.20	24.00

Note:

1. Conducted Output power(dB m) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)		
Low	5 270	26T	0	12.30	-0.48	11.82	29.83		
			9	13.21		12.73	30.00		
			17	12.10		11.62	29.98		
		52T	37	12.51		12.03	29.83		
			41	13.35		12.87	30.00		
			44	12.45		11.97	29.92		
		106T	53	12.94		12.46	29.85		
			54	13.50		13.02	30.00		
			56	12.74		12.26	30.00		
		242T	61	13.11		12.63	30.00		
			62	12.92		12.44	30.00		
		484T	65	12.88		12.40	30.00		
		SU	-	16.18		15.70	30.00		
		High	5 310	26T		0	12.36	11.88	29.74
						9	13.17	12.69	30.00
17	12.03				11.55	30.00			
52T	37			12.57	12.09	29.78			
	41			13.13	12.65	30.00			
	44			12.28	11.80	29.96			
106T	53			12.87	12.39	29.78			
	54			13.41	12.93	30.00			
	56			12.71	12.23	30.00			
242T	61			13.00	12.52	30.00			
	62			12.93	12.45	30.00			
484T	65			12.67	12.19	30.00			
SU	-			16.20	15.72	30.00			

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE80 MIMO in the UNII-2A band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
Low	5 290	26T	0	9.83	8.61	0.14	12.41	24.00
			18	10.12	9.12	0.14	12.80	24.00
			36	9.47	8.43	0.14	12.13	24.00
		52T	37	9.90	8.66	0.31	12.64	24.00
			45	10.13	9.19	0.31	13.01	24.00
			52	9.65	8.71	0.31	12.53	24.00
		106T	53	9.99	8.79	0.41	12.85	24.00
			57	10.10	9.10	0.41	13.05	24.00
			60	9.74	8.66	0.41	12.65	24.00
		242T	61	10.12	8.77	0.98	13.49	24.00
			62	10.21	9.10	0.98	13.68	24.00
			64	9.63	8.79	0.98	13.22	24.00
		484T	65	9.12	8.05	1.15	12.78	24.00
			66	9.12	8.00	1.15	12.76	24.00
		996T	67	7.92	7.35	2.09	12.74	24.00
		SU	-	9.99	9.77	2.09	14.98	24.00

Note:

1. Conducted Output power(dB m) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m) + DCF_(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
Low	5 210	26T	0	12.41	-0.48	11.93	30.00
			18	12.80		12.32	30.00
			36	12.13		11.65	30.00
		52T	37	12.64		12.16	30.00
			45	13.01		12.53	30.00
			52	12.53		12.05	30.00
		106T	53	12.85		12.37	30.00
			57	13.05		12.57	30.00
			60	12.65		12.17	30.00
		242T	61	13.49		13.01	30.00
			62	13.68		13.20	30.00
			64	13.22		12.74	30.00
		484T	65	12.78		12.30	30.00
			66	12.76		12.28	30.00
		996T	67	12.74		12.26	30.00
		SU	-	14.98		14.50	30.00

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE20 MIMO in the UNII-2C band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
Low	5 500	26T	0	10.06	9.41	0.11	12.87	24.00
			4	10.29	9.60	0.11	13.08	23.69
			8	10.21	9.26	0.11	12.88	24.00
		52T	37	10.32	9.38	0.23	13.12	24.00
			38	10.27	9.52	0.23	13.15	23.78
			40	10.24	9.28	0.23	13.03	24.00
		106T	53	10.11	9.38	0.39	13.16	24.00
			54	10.03	9.13	0.39	13.00	24.00
		242T	61	9.20	9.20	0.87	13.08	24.00
		SU	-	13.31	13.56	0.87	17.32	24.00
Mid	5 580	26T	0	10.28	9.36	0.11	12.96	23.95
			4	10.38	9.65	0.11	13.15	23.66
			8	10.08	9.28	0.11	12.82	23.98
		52T	37	10.27	9.30	0.23	13.05	24.00
			38	10.41	9.60	0.23	13.26	23.81
			40	10.10	9.37	0.23	12.99	24.00
		106T	53	10.09	9.16	0.39	13.05	24.00
			54	10.16	9.06	0.39	13.05	24.00
		242T	61	9.29	8.93	0.87	12.99	24.00
		SU	-	13.47	13.49	0.87	17.36	24.00
High	5 700	26T	0	10.08	9.44	0.11	12.89	24.00
			4	10.30	9.77	0.11	13.16	23.66
			8	10.05	9.44	0.11	12.88	24.00
		52T	37	10.12	9.64	0.23	13.13	24.00
			38	10.23	9.87	0.23	13.29	23.79
			40	10.02	9.58	0.23	13.05	24.00
		106T	53	10.12	9.39	0.39	13.17	24.00
			54	9.95	9.32	0.39	13.05	24.00
		242T	61	9.38	9.16	0.87	13.15	24.00
		SU	-	13.48	13.62	0.87	17.43	24.00
Straddle	5 720	26T	0	9.63	9.17	0.11	12.53	23.96
			4	9.78	9.30	0.11	12.67	23.75
		52T	37	9.69	9.16	0.23	12.67	24.00
			38	9.84	9.21	0.23	12.78	23.79
		106T	53	9.69	9.09	0.39	12.80	24.00

Note:

1. Conducted Output power(dB m) = $10\log(10^{(ANT\ 1/10)} + 10^{(ANT\ 2/10)})$ (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
Low	5 500	26T	0	12.87	-3.44	9.43	29.66
			4	13.08		9.64	29.40
			8	12.88		9.44	29.71
		52T	37	13.12		9.68	29.62
			38	13.15		9.71	29.39
			40	13.03		9.59	29.67
		106T	53	13.16		9.72	29.62
			54	13.00		9.56	29.67
		242T	61	13.08		9.64	29.79
		SU	-	17.32		13.88	29.79
Mid	5 580	26T	0	12.96	-3.44	9.52	29.64
			4	13.15		9.71	29.38
			8	12.82		9.38	29.69
		52T	37	13.05		9.61	29.62
			38	13.26		9.82	29.40
			40	12.99		9.55	29.64
		106T	53	13.05		9.61	29.61
			54	13.05		9.61	29.67
		242T	61	12.99		9.55	29.79
		SU	-	17.36		13.92	29.79
High	5 700	26T	0	12.89	-3.44	9.45	29.66
			4	13.16		9.72	29.39
			8	12.88		9.44	29.70
		52T	37	13.13		9.69	29.63
			38	13.29		9.85	29.39
			40	13.05		9.61	29.66
		106T	53	13.17		9.73	29.62
			54	13.05		9.61	29.67
		242T	61	13.15		9.71	29.79
		SU	-	17.43		13.99	29.79
Straddle	5 720	26T	0	12.53	-3.44	9.09	29.63
			4	12.67		9.23	29.26
		52T	37	12.67		9.23	29.60
			38	12.78		9.34	29.32
		106T	53	12.80		9.36	29.61

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

**802.11ax HE40 MIMO in the UNII-2C band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
Low	5 510	26T	0	9.58	9.09	0.11	12.46	24.00
			9	10.71	10.20	0.11	13.58	24.00
			17	9.46	8.87	0.11	12.30	24.00
		52T	37	9.57	9.28	0.23	12.67	24.00
			41	10.55	9.93	0.23	13.49	24.00
			44	9.58	9.09	0.23	12.58	24.00
		106T	53	9.74	9.43	0.47	13.07	24.00
			54	10.21	9.50	0.47	13.35	24.00
			56	9.60	9.26	0.47	12.91	24.00
		242T	61	9.76	9.05	0.72	13.15	24.00
			62	9.68	9.40	0.72	13.27	24.00
		484T	65	8.59	8.45	1.44	12.97	24.00
		SU	-	11.81	12.12	1.44	16.42	24.00
		Mid	5 590	26T	0	9.37	8.87	0.11
9	10.35				10.18	0.11	13.39	24.00
17	9.08				8.90	0.11	12.11	24.00
52T	37			9.52	9.02	0.23	12.52	24.00
	41			10.27	10.05	0.23	13.40	24.00
	44			9.28	9.10	0.23	12.43	24.00
106T	53			9.72	9.12	0.47	12.91	24.00
	54			10.16	9.56	0.47	13.35	24.00
	56			9.51	9.29	0.47	12.88	24.00
242T	61			9.49	9.16	0.72	13.06	24.00
	62			9.48	9.41	0.72	13.18	24.00
484T	65			8.53	8.41	1.44	12.92	24.00
SU	-			11.77	12.09	1.44	16.38	24.00
High	5 670			26T	0	9.66	8.89	0.11
		9	10.55		10.10	0.11	13.45	24.00
		17	9.33		8.90	0.11	12.24	24.00
		52T	37	9.87	9.10	0.23	12.74	24.00
			41	10.50	10.11	0.23	13.55	24.00
			44	9.50	9.14	0.23	12.56	24.00
		106T	53	9.80	9.25	0.47	13.01	24.00
			54	10.35	9.69	0.47	13.51	24.00
			56	9.59	9.31	0.47	12.93	24.00
		242T	61	9.74	9.05	0.72	13.14	24.00
			62	9.70	9.34	0.72	13.25	24.00
		484T	65	8.78	8.20	1.44	12.95	24.00
		SU	-	11.88	12.13	1.44	16.46	24.00

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
Straddle	5 710	26T	0	9.12	8.82	0.11	12.09	23.98
			9	10.16	9.59	0.11	13.00	23.98
		52T	37	9.27	8.85	0.23	12.31	23.98
			41	10.09	9.61	0.23	13.10	23.98
		106T	53	9.33	8.75	0.47	12.53	23.98
			54	9.81	9.48	0.47	13.13	23.98
		242T	61	9.32	8.79	0.72	12.79	23.98

Note:

1. Conducted Output power(dB m) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m) + DCF(dB)

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e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
Low	5 510	26T	0	12.46	-3.44	9.02	29.83
			9	13.58		10.14	30.00
			17	12.30		8.86	30.00
		52T	37	12.67		9.23	29.83
			41	13.49		10.05	30.00
			44	12.58		9.14	30.00
		106T	53	13.07		9.63	29.81
			54	13.35		9.91	30.00
			56	12.91		9.47	30.00
		242T	61	13.15		9.71	30.00
			62	13.27		9.83	30.00
		484T	65	12.97		9.53	30.00
		SU	-	16.42		12.98	30.00
		Mid	5 590	26T		0	12.25
9	13.39				9.95	30.00	
17	12.11				8.67	30.00	
52T	37			12.52	9.08	29.81	
	41			13.40	9.96	30.00	
	44			12.43	8.99	30.00	
106T	53			12.91	9.47	29.81	
	54			13.35	9.91	30.00	
	56			12.88	9.44	30.00	
242T	61			13.06	9.62	30.00	
	62			13.18	9.74	30.00	
484T	65			12.92	9.48	30.00	
SU	-			16.38	12.94	30.00	
High	5 670			26T	0	12.41	8.97
		9	13.45		10.01	30.00	
		17	12.24		8.80	30.00	
		52T	37	12.74	9.30	29.76	
			41	13.55	10.11	30.00	
			44	12.56	9.12	30.00	
		106T	53	13.01	9.57	29.83	
			54	13.51	10.07	30.00	
			56	12.93	9.49	30.00	
		242T	61	13.14	9.70	30.00	
			62	13.25	9.81	30.00	
		484T	65	12.95	9.51	30.00	
		SU	-	16.46	13.02	30.00	

Channel	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
Straddle	5 710	26T	0	12.09	-3.44	8.65	29.87
			9	13.00		9.56	30.00
		52T	37	12.31		8.87	29.64
			41	13.10		9.66	30.00
		106T	53	12.53		9.09	29.57
			54	13.13		9.69	30.00
		242T	61	12.79		9.35	30.00

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

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**802.11ax HE80 MIMO in the UNII-2C band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
Low	5 530	26T	0	9.42	9.17	0.14	12.45	24.00
			18	9.83	9.16	0.14	12.66	24.00
			36	9.35	8.94	0.14	12.30	24.00
		52T	37	9.66	9.37	0.31	12.84	24.00
			45	9.96	9.82	0.31	13.21	24.00
			52	9.43	9.02	0.31	12.55	24.00
		106T	53	9.60	9.34	0.41	12.89	24.00
			57	9.95	9.80	0.41	13.30	24.00
			60	9.47	9.19	0.41	12.75	24.00
		242T	61	9.42	9.19	0.98	13.30	24.00
			62	9.74	9.25	0.98	13.49	24.00
			64	9.53	9.16	0.98	13.34	24.00
		484T	65	8.75	8.39	1.15	12.73	24.00
			66	8.92	8.71	1.15	12.98	24.00
		996T	67	7.91	7.68	2.09	12.90	24.00
SU	-	9.88	10.00	2.09	15.04	24.00		
High	5 610	26T	0	9.48	9.12	0.14	12.45	24.00
			18	9.69	9.36	0.14	12.68	24.00
			36	9.27	8.97	0.14	12.27	24.00
		52T	37	9.53	9.20	0.31	12.69	24.00
			45	10.02	9.79	0.31	13.23	24.00
			52	9.30	9.11	0.31	12.53	24.00
		106T	53	9.60	9.22	0.41	12.83	24.00
			57	9.90	9.76	0.41	13.25	24.00
			60	9.45	9.14	0.41	12.72	24.00
		242T	61	9.40	9.24	0.98	13.31	24.00
			62	9.53	9.27	0.98	13.39	24.00
			64	9.42	9.33	0.98	13.37	24.00
		484T	65	8.74	8.45	1.15	12.76	24.00
			66	8.71	8.64	1.15	12.84	24.00
		996T	67	7.75	7.66	2.09	12.81	24.00
SU	-	9.81	10.16	2.09	15.09	24.00		

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
Straddle	5 690	26T	0	9.26	8.79	0.14	12.18	23.98
			18	9.53	9.04	0.14	12.44	23.98
		52T	37	9.39	9.06	0.31	12.55	23.98
			45	9.63	9.20	0.31	12.74	23.98
		106T	53	9.42	8.79	0.41	12.54	23.98
			57	9.62	9.14	0.41	12.81	23.98
		242T	61	9.09	8.73	0.98	12.90	23.98
			62	9.22	8.65	0.98	12.93	23.98
		484T	65	8.51	7.97	1.15	12.41	23.98

Note:

1. Conducted Output power(dB m) = $10\log(10^{(ANT\ 1/10)} + 10^{(ANT\ 2/10)})$ (dB m) + DCF_(dB)

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e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
Low	5 530	26T	0	12.45	-3.44	9.01	30.00
			18	12.66		9.22	30.00
			36	12.30		8.86	30.00
		52T	37	12.84		9.40	30.00
			45	13.21		9.77	30.00
			52	12.55		9.11	30.00
		106T	53	12.89		9.45	30.00
			57	13.30		9.86	30.00
			60	12.75		9.31	30.00
		242T	61	13.30		9.86	30.00
			62	13.49		10.05	30.00
			64	13.34		9.90	30.00
		484T	65	12.73		9.29	30.00
			66	12.98		9.54	30.00
		996T	67	12.90		9.46	30.00
		SU	-	15.04		11.60	30.00
High	5 610	26T	0	12.45	-3.44	9.01	30.00
			18	12.68		9.24	30.00
			36	12.27		8.83	30.00
		52T	37	12.69		9.25	30.00
			45	13.23		9.79	30.00
			52	12.53		9.09	30.00
		106T	53	12.83		9.39	30.00
			57	13.25		9.81	30.00
			60	12.72		9.28	30.00
		242T	61	13.31		9.87	30.00
			62	13.39		9.95	30.00
			64	13.37		9.93	30.00
		484T	65	12.76		9.32	30.00
			66	12.84		9.40	30.00
		996T	67	12.81		9.37	30.00
		SU	-	15.09		11.65	30.00

Channel	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
Straddle	5 690	26T	0	12.18	-3.44	8.74	30.00
			18	12.44		9.00	30.00
		52T	37	12.55		9.11	30.00
			45	12.74		9.30	30.00
		106T	53	12.54		9.10	30.00
			57	12.81		9.37	30.00
		242T	61	12.90		9.46	30.00
			62	12.93		9.49	30.00
		484T	65	12.41		8.97	30.00

Notes:

- e.i.r.p. Calculation: $e.i.r.p. (dBm) = \text{Conducted output power (dBm)} + \text{Antenna gain (dBi)}$
- The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

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**802.11ax HE20 MIMO in the UNII-3 band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
Straddle	5 720	26T	8	9.47	9.11	0.11	12.42	30.00
		52T	40	9.50	9.08	0.23	12.54	30.00
Low	5 745	26T	0	10.25	10.30	0.11	13.40	30.00
			4	10.31	10.43	0.11	13.49	30.00
			8	9.93	10.08	0.11	13.13	30.00
		52T	37	10.16	10.27	0.23	13.46	30.00
			38	10.22	10.42	0.23	13.56	30.00
			40	9.95	10.32	0.23	13.38	30.00
		106T	53	10.04	10.21	0.39	13.53	30.00
			54	9.80	10.10	0.39	13.35	30.00
		242T	61	9.43	9.67	0.87	13.43	30.00
		SU	-	13.50	13.95	0.87	17.61	30.00
		Mid	5 785	26T	0	9.96	10.01	0.11
4	10.49				10.43	0.11	13.58	30.00
8	9.88				9.84	0.11	12.98	30.00
52T	37			10.14	10.10	0.23	13.36	30.00
	38			10.36	10.11	0.23	13.48	30.00
	40			9.89	10.05	0.23	13.21	30.00
106T	53			10.04	9.87	0.39	13.36	30.00
	54			9.98	9.84	0.39	13.31	30.00
242T	61			9.46	9.83	0.87	13.53	30.00
SU	-			13.53	13.93	0.87	17.61	30.00
High	5 825			26T	0	9.86	9.91	0.11
		4	10.22		10.40	0.11	13.43	30.00
		8	9.82		10.11	0.11	13.09	30.00
		52T	37	9.89	9.99	0.23	13.18	30.00
			38	10.13	10.15	0.23	13.38	30.00
			40	9.88	9.98	0.23	13.17	30.00
		106T	53	9.82	9.96	0.39	13.29	30.00
			54	9.82	10.04	0.39	13.33	30.00
		242T	61	9.50	9.71	0.87	13.49	30.00
		SU	-	13.52	13.93	0.87	17.61	30.00

Note:

1. Conducted Output power(dB m) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m) + DCF_(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)		
Straddle	5 720	26T	8	12.42	-3.44	8.98	30.00		
		52T	40	12.54		9.10	30.00		
Low	5 745	26T	0	13.40		9.96	30.00		
			4	13.49		10.05	30.00		
			8	13.13		9.69	30.00		
			37	13.46		10.02	30.00		
		52T	38	13.56		10.12	30.00		
			40	13.38		9.94	30.00		
			53	13.53		10.09	30.00		
		106T	54	13.35		9.91	30.00		
			242T	61		13.43	9.99	30.00	
		SU	-	17.61		14.17	30.00		
		Mid	5 785	26T		0	13.11	9.67	30.00
						4	13.58	10.14	30.00
8	12.98					9.54	30.00		
52T	37			13.36		9.92	30.00		
	38			13.48		10.04	30.00		
	40			13.21		9.77	30.00		
106T	53			13.36		9.92	30.00		
	54			13.31		9.87	30.00		
242T	61			13.53		10.09	30.00		
SU	-			17.61		14.17	30.00		
High	5 825			26T		0	13.01	9.57	30.00
						4	13.43	9.99	30.00
		8	13.09		9.65	30.00			
		52T	37	13.18	9.74	30.00			
			38	13.38	9.94	30.00			
			40	13.17	9.73	30.00			
		106T	53	13.29	9.85	30.00			
			54	13.33	9.89	30.00			
		242T	61	13.49	10.05	30.00			
		SU	-	17.61	14.17	30.00			

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)

**802.11ax HE40 MIMO in the UNII-3 band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
Straddle	5 710	26T	17	8.94	8.92	0.11	12.05	30.00
		52T	44	9.08	8.68	0.23	12.12	30.00
Low	5 755	26T	0	9.65	9.51	0.11	12.70	30.00
			9	10.59	10.46	0.11	13.65	30.00
			17	9.38	9.77	0.11	12.70	30.00
		52T	37	9.80	9.73	0.23	13.01	30.00
			41	10.54	10.49	0.23	13.76	30.00
			44	9.59	9.60	0.23	12.84	30.00
		106T	53	9.77	9.80	0.47	13.27	30.00
			54	10.32	10.38	0.47	13.83	30.00
			56	9.72	9.78	0.47	13.23	30.00
		242T	61	9.72	9.88	0.72	13.53	30.00
			62	9.85	9.88	0.72	13.60	30.00
		484T	65	8.95	8.94	1.44	13.40	30.00
		SU	-	12.08	12.27	1.44	16.63	30.00
		High	5 795	26T	0	9.13	9.41	0.11
9	10.70				10.89	0.11	13.92	30.00
17	9.07				9.24	0.11	12.28	30.00
52T	37			9.29	9.65	0.23	12.71	30.00
	41			10.66	10.84	0.23	13.99	30.00
	44			9.24	9.49	0.23	12.61	30.00
106T	53			9.54	9.91	0.47	13.21	30.00
	54			10.23	10.74	0.47	13.97	30.00
	56			9.55	9.76	0.47	13.14	30.00
242T	61			9.59	9.84	0.72	13.45	30.00
	62			9.52	10.06	0.72	13.53	30.00
484T	65			8.79	9.29	1.44	13.50	30.00
SU	-			12.05	12.40	1.44	16.68	30.00

Note:

1. Conducted Output power(dB m) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
Straddle	5 710	26T	17	12.05	-3.44	8.61	30.00
		52T	44	12.12		8.68	30.00
Low	5 755	26T	0	12.70		9.26	30.00
			9	13.65		10.21	30.00
			17	12.70		9.26	30.00
			37	13.01		9.57	30.00
		52T	41	13.76		10.32	30.00
			44	12.84		9.40	30.00
			53	13.27		9.83	30.00
		106T	54	13.83		10.39	30.00
			56	13.23		9.79	30.00
			61	13.53		10.09	30.00
		242T	62	13.60		10.16	30.00
			484T	65		13.40	9.96
		SU	-	16.63		13.19	30.00
		High	5 795	26T		0	12.39
9	13.92					10.48	30.00
17	12.28					8.84	30.00
52T	37			12.71		9.27	30.00
	41			13.99		10.55	30.00
	44			12.61	9.17	30.00	
106T	53			13.21	9.77	30.00	
	54			13.97	10.53	30.00	
	56			13.14	9.70	30.00	
242T	61			13.45	10.01	30.00	
	62			13.53	10.09	30.00	
484T	65			13.50	10.06	30.00	
SU	-			16.68	13.24	30.00	

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)

**802.11ax HE80 MIMO in the UNII-3 band
Conducted Output Power**

Channel	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
Straddle	5 690	26T	36	8.94	8.81	0.14	12.03	30.00
		52T	52	9.03	8.72	0.31	12.20	30.00
Low	5 775	26T	0	9.26	9.72	0.14	12.65	30.00
			18	9.56	9.98	0.14	12.93	30.00
			36	9.18	9.77	0.14	12.64	30.00
		52T	37	9.37	9.90	0.31	12.96	30.00
			45	9.76	10.36	0.31	13.39	30.00
			52	9.28	9.71	0.31	12.82	30.00
		106T	53	9.45	9.97	0.41	13.14	30.00
			57	9.72	10.09	0.41	13.33	30.00
			60	9.38	9.79	0.41	13.01	30.00
		242T	61	9.26	9.69	0.98	13.47	30.00
			62	9.55	9.88	0.98	13.71	30.00
			64	9.29	9.87	0.98	13.58	30.00
		484T	65	8.65	8.96	1.15	12.97	30.00
			66	8.71	9.04	1.15	13.04	30.00
		996T	67	8.10	7.81	2.09	13.06	30.00
		SU	-	10.10	10.13	2.09	15.21	30.00

Note:

1. Conducted Output power(dB m) = $10\log(10^{(ANT\ 1/10)} + 10^{(ANT\ 2/10)})$ (dB m) + DCF(dB)

e.i.r.p.

Channel	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
Straddle	5 690	26T	36	12.03	-3.44	8.59	30.00
		52T	52	12.20		8.76	30.00
Low	5 775	26T	0	12.65		9.21	30.00
			18	12.93		9.49	30.00
			36	12.64		9.20	30.00
		52T	37	12.96		9.52	30.00
			45	13.39		9.95	30.00
			52	12.82		9.38	30.00
		106T	53	13.14		9.70	30.00
			57	13.33		9.89	30.00
			60	13.01		9.57	30.00
		242T	61	13.47		10.03	30.00
			62	13.71		10.27	30.00
			64	13.58		10.14	30.00
		484T	65	12.97		9.53	30.00
			66	13.04		9.60	30.00
		996T	67	13.06		9.62	30.00
		SU	-	15.21		11.77	30.00

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)

**802.11ax HE20 MIMO in the Straddle
Conducted Output Power**

Band	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
UNII-2C	5 720	106T	54	5.98	5.86	0.39	9.32	22.64
		SU	-	8.11	8.06	0.87	11.97	22.98
UNII-3		106T	54	6.53	6.37	0.39	9.85	30.00
		SU	-	2.83	2.84	0.87	6.72	30.00

**802.11ax HE40 MIMO in the Straddle
Conducted Output Power**

Band	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
UNII-2C	5 710	106T	56	7.06	6.01	0.47	10.05	22.70
		242T	62	8.13	8.34	0.72	11.97	23.98
		SU	-	8.73	8.03	1.44	12.84	23.98
UNII-3		106T	56	6.13	5.12	0.47	9.13	30.00
		242T	62	1.80	2.02	0.72	5.64	30.00
		SU	-	-1.30	-1.90	1.44	2.86	30.00

**802.11ax HE80 MIMO in the Straddle
Conducted Output Power**

Band	Frequency (MHz)	Tones	RU offset	Measured power ANT 1 (dBm)	Measured power ANT 2 (dBm)	DCF (dB)	Conducted output power (dBm)	Conducted Power Limit (dBm)
							Average	
UNII-2C	5 690	106T	60	6.62	6.75	0.41	10.11	23.09
		242T	64	8.19	8.73	0.98	12.46	23.98
		484T	66	8.29	8.17	1.15	12.39	23.98
		SU	-	8.31	6.83	2.09	12.73	23.98
UNII-3		106T	60	5.89	6.02	0.41	9.38	30.00
		242T	64	1.83	2.46	0.98	6.15	30.00
		484T	66	-2.18	-2.23	1.15	1.96	30.00
		SU	-	-5.83	-7.26	2.09	-1.39	30.00

Note:

1. Conducted Output power(dB m) = $10\log(10^{(ANT\ 1/10)} + 10^{(ANT\ 2/10)})$ (dB m) + DCF(dB)

**802.11ax HE20 MIMO in the Straddle
e.i.r.p.**

Band	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
UNII-2C	5 720	106T	54	9.32	-3.44	5.88	28.33
		SU	-	11.97		8.53	28.63
UNII-3		106T	54	9.85	-3.44	6.41	30.00
		SU	-	6.72		3.28	30.00

**802.11ax HE40 MIMO in the Straddle
e.i.r.p.**

Band	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
UNII-2C	5 710	106T	56	10.05	-3.44	6.61	28.43
		242T	62	11.97		8.53	29.15
		SU	-	12.84		9.40	30.00
UNII-3		106T	56	9.13	-3.44	5.69	30.00
		242T	62	5.64		2.20	30.00
		SU	-	2.86		-0.58	30.00

**802.11ax HE80 MIMO in the Straddle
e.i.r.p.**

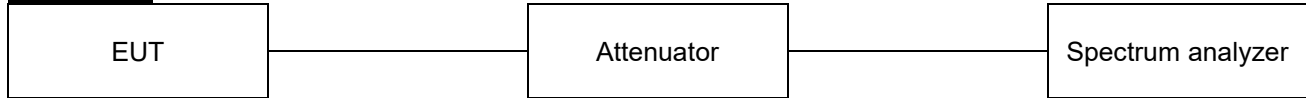
Band	Frequency (MHz)	Tones	RU offset	Conducted Output Power (dBm)	ANT gain (dBi)	MAX e.i.r.p (dBm)	MAX e.i.r.p Limit (dBm)
UNII-2C	5 690	106T	60	10.11	-3.44	6.67	30.00
		242T	64	12.46		9.02	30.00
		484T	66	12.39		8.95	30.00
		SU	-	12.73		9.29	30.00
UNII-3		106T	60	9.38	-3.44	5.94	30.00
		242T	64	6.15		2.71	30.00
		484T	66	1.96		-1.48	30.00
		SU	-	-1.39		-4.83	30.00

Notes:

1. e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted output power (dBm) + Antenna gain (dBi)
2. The max e.i.r.p. limit has reported Ant1 or Ant2, whichever is less

8.2. Maximum Power Spectral Density

Test setup



Limit

According to §15.407(a), RSS-247(6.2)

Band	EUT category		Limit
UNII-1		Outdoor access point	17dBm/MHz
		Indoor access point	
		Fixed point-to-point access point	
	√	Client device	11 dBm /MHz
UNII-2A		√	11 dBm /MHz
UNII-2C		√	11 dBm /MHz
UNII-3		√	30 dBm /500 kHz

Notes:

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain if the antenna exceed 6 dBi

Test procedure

ANSI C63.10-2013 Section 12.3.2.2, 14.3.2.2
KDB 789033 D02 v02r01 - Section F
KDB 662911 D01 v02r01 - Section E). 2)

Test settings

Section F

The rules requires “maximum power spectral density” measurements where the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission. Refer to III.A for additional guidance for devices that use channel aggregation.

1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power...” (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
2. Search function on the instrument to find the peak of the spectrum and record its value.
3. Adjustments to the peak value of the spectrum, if applicable:
 - a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.
 - b) If Method SA-3 Alternative was used and the linear mode was used in II.E.2.g) (viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
4. The result is the Maximum PSD over 1MHz reference bandwidth
5. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the

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preceding procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in Section 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of RBWs less than 1MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth(i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in II.B.1.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log(500 \text{ kHz} / RBW)$ to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log(1\text{MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the II.F.5.c) and II.F.5.d), since RBW=100 kHz is available on nearly all spectrum analyzers.

Note:

Please refer to Appendix A for plots

Test results**802.11ax HE20 SISO in the UNII-1 band**

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD ANT 1 (dBm/MHz)	Maximum PSD ANT 2 (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	Average	
Low	5 180	26T	0	6.40	5.97	0.10	6.50	6.07	11.00
			4	5.72	5.24	0.10	5.82	5.34	11.00
			8	6.38	6.00	0.10	6.48	6.10	11.00
		52T	37	3.76	3.43	0.10	3.86	3.53	11.00
			38	4.00	3.64	0.10	4.10	3.74	11.00
			40	3.87	3.32	0.10	3.97	3.42	11.00
		106T	53	0.72	0.36	0.19	0.91	0.55	11.00
			54	0.80	0.47	0.19	0.99	0.66	11.00
		SU	-	1.47	1.05	0.60	2.07	1.65	11.00
		Mid	5 200	26T	0	6.14	5.67	0.10	6.24
4	5.13				4.75	0.10	5.23	4.85	11.00
8	5.81				5.55	0.10	5.91	5.65	11.00
52T	37			3.36	2.88	0.10	3.46	2.98	11.00
	38			3.42	3.00	0.10	3.52	3.10	11.00
	40			3.13	2.93	0.10	3.23	3.03	11.00
106T	53			0.24	-0.21	0.19	0.43	-0.02	11.00
	54			0.03	-0.23	0.19	0.22	-0.04	11.00
SU	-			1.06	0.38	0.60	1.66	0.98	11.00
High	5 240			26T	0	5.84	6.03	0.10	5.94
		4	5.42		5.27	0.10	5.52	5.37	11.00
		8	6.53		6.24	0.10	6.63	6.34	11.00
		52T	37	3.46	3.14	0.10	3.56	3.24	11.00
			38	3.80	3.29	0.10	3.90	3.39	11.00
			40	3.66	3.51	0.10	3.76	3.61	11.00
		106T	53	0.46	0.27	0.19	0.65	0.46	11.00
			54	0.55	0.31	0.19	0.74	0.50	11.00
		SU	-	1.27	0.94	0.60	1.87	1.54	11.00

Notes:

1. Maximum PSD(dB m/MHz) = Measured PSD (dB m/MHz) + DCF(dB)

802.11ax HE40 SISO in the UNII-1 band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD ANT 1 (dBm/MHz)	Maximum PSD ANT 2 (dBm/MHz)	Maximum PSD Limit (dBm/MHz)		
							Average	Average			
Low	5 190	26T	0	6.11	5.62	0.10	6.21	5.72	11.00		
			9	6.31	5.86	0.10	6.41	5.96	11.00		
			17	5.29	5.12	0.10	5.39	5.22	11.00		
		52T	37	3.52	3.24	0.14	3.66	3.38	11.00		
			41	3.54	3.11	0.14	3.68	3.25	11.00		
			44	2.89	2.37	0.14	3.03	2.51	11.00		
		106T	53	1.48	0.41	0.29	1.77	0.70	11.00		
			54	1.31	0.77	0.29	1.60	1.06	11.00		
			56	0.16	-0.01	0.29	0.45	0.28	11.00		
		242T	61	-2.64	-2.97	0.49	-2.15	-2.48	11.00		
			62	-3.20	-3.94	0.49	-2.71	-3.45	11.00		
		SU	-	-2.83	-3.47	0.88	-1.95	-2.59	11.00		
		High	5 230	26T	0	4.89	4.71	0.10	4.99	4.81	11.00
					9	6.13	6.01	0.10	6.23	6.11	11.00
17	5.81				5.62	0.10	5.91	5.72	11.00		
52T	37			2.44	2.03	0.14	2.58	2.17	11.00		
	41			3.60	3.39	0.14	3.74	3.53	11.00		
	44			3.16	3.06	0.14	3.30	3.20	11.00		
106T	53			0.19	-0.46	0.29	0.48	-0.17	11.00		
	54			0.78	0.35	0.29	1.07	0.64	11.00		
	56			0.85	0.37	0.29	1.14	0.66	11.00		
242T	61			-2.95	-3.61	0.49	-2.46	-3.12	11.00		
	62			-2.83	-3.33	0.49	-2.34	-2.84	11.00		
SU	-			-2.92	-3.49	0.88	-2.04	-2.61	11.00		

Notes:

1. Maximum PSD(dB m/MHz) = Measured PSD (dB m/MHz) + DCF(dB)

802.11ax HE80 SISO in the UNII-1 band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD ANT 1 (dBm/MHz)	Maximum PSD ANT 2 (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	Average	
Low	5 210	26T	0	6.36	5.35	0.09	6.45	5.44	11.00
			18	4.66	3.53	0.09	4.75	3.62	11.00
			36	5.96	5.12	0.09	6.05	5.21	11.00
		52T	37	3.84	2.79	0.13	3.97	2.92	11.00
			45	2.89	1.90	0.13	3.02	2.03	11.00
			52	3.76	2.64	0.13	3.89	2.77	11.00
		106T	53	0.95	-0.06	0.20	1.15	0.14	11.00
			57	-0.06	-0.79	0.20	0.14	-0.59	11.00
			60	0.54	-0.50	0.20	0.74	-0.30	11.00
		242T	61	-2.48	-3.42	0.61	-1.87	-2.81	11.00
			62	-2.76	-4.12	0.61	-2.15	-3.51	11.00
			64	-2.83	-3.77	0.61	-2.22	-3.16	11.00
		484T	65	-6.15	-7.07	0.76	-5.39	-6.31	11.00
			66	-6.17	-7.42	0.76	-5.41	-6.66	11.00
		SU	-	-7.49	-8.01	1.54	-5.95	-6.47	11.00

Notes:

1. Maximum PSD(dB m/MHz) = Measured PSD (dB m/MHz) + DCF(dB)

802.11ax HE20 SISO in the UNII-2A band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD ANT 1 (dBm/MHz)	Maximum PSD ANT 2 (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	Average	
Low	5 260	26T	0	6.19	5.87	0.10	6.29	5.97	11.00
			4	5.46	4.88	0.10	5.56	4.98	11.00
			8	6.23	5.71	0.10	6.33	5.81	11.00
		52T	37	3.68	3.35	0.10	3.78	3.45	11.00
			38	3.80	3.47	0.10	3.90	3.57	11.00
			40	3.41	3.16	0.10	3.51	3.26	11.00
		106T	53	0.52	0.27	0.19	0.71	0.46	11.00
			54	0.34	0.21	0.19	0.53	0.40	11.00
		SU	-	1.24	0.50	0.60	1.84	1.10	11.00
		Mid	5 280	26T	0	5.76	5.20	0.10	5.86
4	5.00				4.50	0.10	5.10	4.60	11.00
8	6.09				5.57	0.10	6.19	5.67	11.00
52T	37			2.98	2.66	0.10	3.08	2.76	11.00
	38			3.11	2.80	0.10	3.21	2.90	11.00
	40			3.23	2.89	0.10	3.33	2.99	11.00
106T	53			-0.12	-0.71	0.19	0.07	-0.52	11.00
	54			0.09	-0.19	0.19	0.28	0.00	11.00
SU	-			0.88	0.31	0.60	1.48	0.91	11.00
High	5 320			26T	0	5.96	5.63	0.10	6.06
		4	5.23		4.91	0.10	5.33	5.01	11.00
		8	5.95		5.66	0.10	6.05	5.76	11.00
		52T	37	3.41	3.12	0.10	3.51	3.22	11.00
			38	3.70	3.29	0.10	3.80	3.39	11.00
			40	3.34	3.00	0.10	3.44	3.10	11.00
		106T	53	0.42	0.06	0.19	0.61	0.25	11.00
			54	1.44	0.01	0.19	1.63	0.20	11.00
		SU	-	1.18	0.64	0.60	1.78	1.24	11.00

Notes:

1. Maximum PSD(dB m/MHz) = Measured PSD (dB m/MHz) + DCF(dB)

802.11ax HE40 SISO in the UNII-2A band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD ANT 1 (dBm/MHz)	Maximum PSD ANT 2 (dBm/MHz)	Maximum PSD Limit (dBm/MHz)		
							Average	Average			
Low	5 270	26T	0	5.80	6.72	0.10	5.90	6.82	11.00		
			9	6.02	5.15	0.10	6.12	5.25	11.00		
			17	5.25	6.23	0.10	5.35	6.33	11.00		
		52T	37	3.27	3.46	0.14	3.41	3.60	11.00		
			41	3.12	2.99	0.14	3.26	3.13	11.00		
			44	2.70	2.40	0.14	2.84	2.54	11.00		
		106T	53	0.98	0.00	0.29	1.27	0.29	11.00		
			54	0.87	0.21	0.29	1.16	0.50	11.00		
			56	0.01	-0.25	0.29	0.30	0.04	11.00		
		242T	61	-3.00	-3.73	0.49	-2.51	-3.24	11.00		
			62	-3.66	-4.39	0.49	-3.17	-3.90	11.00		
		SU	-	-3.19	-3.76	0.88	-2.31	-2.88	11.00		
		High	5 310	26T	0	5.58	6.60	0.10	5.68	6.70	11.00
					9	6.47	5.88	0.10	6.57	5.98	11.00
17	5.28				6.43	0.10	5.38	6.53	11.00		
52T	37			2.95	2.64	0.14	3.09	2.78	11.00		
	41			3.65	3.10	0.14	3.79	3.24	11.00		
	44			2.83	3.76	0.14	2.97	3.90	11.00		
106T	53			0.64	-0.04	0.29	0.93	0.25	11.00		
	54			0.89	0.39	0.29	1.18	0.68	11.00		
	56			0.12	1.21	0.29	0.41	1.50	11.00		
242T	61			-3.06	-3.47	0.49	-2.57	-2.98	11.00		
	62			-3.29	-3.98	0.49	-2.80	-3.49	11.00		
SU	-			-3.12	-3.50	0.88	-2.24	-2.62	11.00		

Notes:

1. Maximum PSD(dB m/MHz) = Measured PSD (dB m/MHz) + DCF(dB)

802.11ax HE80 SISO in the UNII-2A band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD ANT 1 (dBm/MHz)	Maximum PSD ANT 2 (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	Average	
Low	5 290	26T	0	6.01	6.31	0.09	6.10	6.40	11.00
			18	4.55	3.72	0.09	4.64	3.81	11.00
			36	5.66	6.25	0.09	5.75	6.34	11.00
		52T	37	3.60	4.11	0.13	3.73	4.24	11.00
			45	3.28	2.16	0.13	3.41	2.29	11.00
			52	3.16	3.53	0.13	3.29	3.66	11.00
		106T	53	0.56	-0.66	0.20	0.76	-0.46	11.00
			57	0.28	-0.89	0.20	0.48	-0.69	11.00
			60	0.28	0.47	0.20	0.48	0.67	11.00
		242T	61	-2.88	-4.08	0.61	-2.27	-3.47	11.00
			62	-3.57	-4.43	0.61	-2.96	-3.82	11.00
			64	-3.24	-4.10	0.61	-2.63	-3.49	11.00
		484T	65	-6.18	-7.29	0.76	-5.42	-6.53	11.00
			66	-6.22	-7.46	0.76	-5.46	-6.70	11.00
		SU	-	-7.32	-7.66	1.54	-5.78	-6.12	11.00

Notes:

1. Maximum PSD(dB m/MHz) = Measured PSD (dB m/MHz) + DCF(dB)

802.11ax HE20 SISO in the UNII-2C band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD ANT 1 (dBm/MHz)	Maximum PSD ANT 2 (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	Average	
Low	5 500	26T	0	6.28	6.10	0.10	6.38	6.20	11.00
			4	5.58	5.55	0.10	5.68	5.65	11.00
			8	6.32	6.27	0.10	6.42	6.37	11.00
		52T	37	3.77	3.71	0.10	3.87	3.81	11.00
			38	3.96	3.88	0.10	4.06	3.98	11.00
			40	3.78	3.69	0.10	3.88	3.79	11.00
		106T	53	0.69	0.66	0.19	0.88	0.85	11.00
			54	0.63	0.50	0.19	0.82	0.69	11.00
		SU	-	1.28	1.32	0.60	1.88	1.92	11.00
		Mid	5 580	26T	0	6.19	6.01	0.10	6.29
4	5.17				5.16	0.10	5.27	5.26	11.00
8	5.80				5.97	0.10	5.90	6.07	11.00
52T	37			3.59	3.55	0.10	3.69	3.65	11.00
	38			3.66	3.69	0.10	3.76	3.79	11.00
	40			3.18	3.38	0.10	3.28	3.48	11.00
106T	53			0.44	0.51	0.19	0.63	0.70	11.00
	54			0.36	0.41	0.19	0.55	0.60	11.00
SU	-			1.04	1.00	0.60	1.64	1.60	11.00
High	5 700			26T	0	6.31	6.22	0.10	6.41
		4	5.26		5.48	0.10	5.36	5.58	11.00
		8	5.88		6.03	0.10	5.98	6.13	11.00
		52T	37	3.74	3.85	0.10	3.84	3.95	11.00
			38	3.72	3.95	0.10	3.82	4.05	11.00
			40	3.43	3.60	0.10	3.53	3.70	11.00
		106T	53	0.45	0.74	0.19	0.64	0.93	11.00
			54	0.40	0.46	0.19	0.59	0.65	11.00
		SU	-	1.16	1.09	0.60	1.76	1.69	11.00
		Straddle	5 720	26T	0	7.07	6.42	0.10	7.17
4	5.64				5.71	0.10	5.74	5.81	11.00
52T	37			3.81	3.34	0.10	3.91	3.44	11.00
	38			3.71	3.52	0.10	3.81	3.62	11.00
106T	53			0.70	0.50	0.19	0.89	0.69	11.00

Notes:

1. Maximum PSD(dB m/MHz) = Measured PSD (dB m/MHz) + DCF(dB)

802.11ax HE40 SISO in the UNII-2C band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD ANT 1 (dBm/MHz)	Maximum PSD ANT 2 (dBm/MHz)	Maximum PSD Limit (dBm/MHz)		
							Average	Average			
Low	5 510	26T	0	5.80	5.80	0.10	5.90	5.90	11.00		
			9	6.33	6.38	0.10	6.43	6.48	11.00		
			17	5.39	5.49	0.10	5.49	5.59	11.00		
		52T	37	3.31	3.60	0.14	3.45	3.74	11.00		
			41	3.73	3.85	0.14	3.87	3.99	11.00		
			44	2.69	3.04	0.14	2.83	3.18	11.00		
		106T	53	0.86	0.88	0.29	1.15	1.17	11.00		
			54	1.08	0.80	0.29	1.37	1.09	11.00		
			56	0.07	0.51	0.29	0.36	0.80	11.00		
		242T	61	-2.90	-3.21	0.49	-2.41	-2.72	11.00		
			62	-3.51	-3.49	0.49	-3.02	-3.00	11.00		
		SU	-	-3.00	-3.02	0.88	-2.12	-2.14	11.00		
		Mid	5 590	26T	0	5.70	5.50	0.10	5.80	5.60	11.00
					9	6.00	6.15	0.10	6.10	6.25	11.00
17	5.33				5.32	0.10	5.43	5.42	11.00		
52T	37			3.22	3.04	0.14	3.36	3.18	11.00		
	41			3.47	3.50	0.14	3.61	3.64	11.00		
	44			2.69	2.89	0.14	2.83	3.03	11.00		
106T	53			0.53	0.29	0.29	0.82	0.58	11.00		
	54			0.74	0.55	0.29	1.03	0.84	11.00		
	56			-0.02	0.21	0.29	0.27	0.50	11.00		
242T	61			-3.36	-3.49	0.49	-2.87	-3.00	11.00		
	62			-3.48	-3.80	0.49	-2.99	-3.31	11.00		
SU	-			-3.67	-3.51	0.88	-2.79	-2.63	11.00		
High	5 670			26T	0	5.65	5.84	0.10	5.75	5.94	11.00
					9	6.63	6.77	0.10	6.73	6.87	11.00
		17	5.98		5.89	0.10	6.08	5.99	11.00		
		52T	37	3.13	3.22	0.14	3.27	3.36	11.00		
			41	3.92	4.18	0.14	4.06	4.32	11.00		
			44	3.66	3.65	0.14	3.80	3.79	11.00		
		106T	53	0.44	0.25	0.29	0.73	0.54	11.00		
			54	0.63	0.67	0.29	0.92	0.96	11.00		
			56	0.77	1.03	0.29	1.06	1.32	11.00		
		242T	61	-3.26	-3.31	0.49	-2.77	-2.82	11.00		
			62	-2.97	-3.17	0.49	-2.48	-2.68	11.00		
		SU	-	-3.01	-2.92	0.88	-2.13	-2.04	11.00		

Notes:

1. Maximum PSD(dB m/MHz) = Measured PSD (dB m/MHz) + DCF(dB)

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD ANT 1 (dBm/MHz)	Maximum PSD ANT 2 (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	Average	
Straddle	5 710	26T	0	6.13	6.03	0.10	6.23	6.13	11.00
			9	7.47	6.80	0.10	7.57	6.90	11.00
		52T	37	4.13	3.19	0.14	4.27	3.33	11.00
			41	4.72	3.57	0.14	4.86	3.71	11.00
		106T	53	0.76	0.99	0.29	1.05	1.28	11.00
			54	0.63	0.76	0.29	0.92	1.05	11.00
		242T	61	-2.75	-3.55	0.49	-2.26	-3.06	11.00

Notes:

1. Maximum PSD(dB m/MHz) = Measured PSD (dB m/MHz) + DCF(dB)

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802.11ax HE80 SISO in the UNII-2C band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD ANT 1 (dBm/MHz)	Maximum PSD ANT 2 (dBm/MHz)	Maximum PSD Limit (dBm/MHz)		
							Average	Average			
Low	5 530	26T	0	5.90	5.72	0.09	5.99	5.81	11.00		
			18	4.59	4.16	0.09	4.68	4.25	11.00		
			36	5.83	5.42	0.09	5.92	5.51	11.00		
		52T	37	3.67	3.16	0.13	3.80	3.29	11.00		
			45	2.85	2.53	0.13	2.98	2.66	11.00		
			52	3.53	2.90	0.13	3.66	3.03	11.00		
		106T	53	0.60	-0.02	0.20	0.80	0.18	11.00		
			57	-0.22	-0.77	0.20	-0.02	-0.57	11.00		
			60	0.67	-0.32	0.20	0.87	-0.12	11.00		
		242T	61	-2.92	-3.68	0.61	-2.31	-3.07	11.00		
			62	-3.36	-3.80	0.61	-2.75	-3.19	11.00		
			64	-3.01	-3.58	0.61	-2.40	-2.97	11.00		
		484T	65	-6.27	-6.77	0.76	-5.51	-6.01	11.00		
			66	-6.47	-6.91	0.76	-5.71	-6.15	11.00		
		SU	-	-7.64	-7.50	1.54	-6.10	-5.96	11.00		
		High	5 610	26T	0	5.90	5.40	0.09	5.99	5.49	11.00
					18	4.76	4.70	0.09	4.85	4.79	11.00
36	5.37				5.02	0.09	5.46	5.11	11.00		
52T	37			3.37	2.74	0.13	3.50	2.87	11.00		
	45			3.75	3.35	0.13	3.88	3.48	11.00		
	52			3.04	2.69	0.13	3.17	2.82	11.00		
106T	53			0.48	-0.13	0.20	0.68	0.07	11.00		
	57			0.78	0.33	0.20	0.98	0.53	11.00		
	60			0.20	-0.17	0.20	0.40	0.03	11.00		
242T	61			-3.36	-3.93	0.61	-2.75	-3.32	11.00		
	62			-3.33	-3.94	0.61	-2.72	-3.33	11.00		
	64			-3.09	-3.79	0.61	-2.48	-3.18	11.00		
484T	65			-6.51	-6.90	0.76	-5.75	-6.14	11.00		
	66			-5.87	-6.43	0.76	-5.11	-5.67	11.00		
SU	-			-7.60	-7.47	1.54	-6.06	-5.93	11.00		

Notes:

1. Maximum PSD(dB m/MHz) = Measured PSD (dB m/MHz) + DCF(dB)

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD ANT 1 (dBm/MHz)	Maximum PSD ANT 2 (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	Average	
Straddle	5 690	26T	0	6.89	5.90	0.09	6.98	5.99	11.00
			18	5.79	4.49	0.09	5.88	4.58	11.00
		52T	37	3.48	3.69	0.13	3.61	3.82	11.00
			45	3.55	3.88	0.13	3.68	4.01	11.00
		106T	53	0.25	0.33	0.20	0.45	0.53	11.00
			57	0.67	0.21	0.20	0.87	0.41	11.00
		242T	61	-2.79	-3.24	0.61	-2.18	-2.63	11.00
			62	-2.28	-2.66	0.61	-1.67	-2.05	11.00
		484T	65	-5.54	-5.81	0.76	-4.78	-5.05	11.00

Notes:

1. Maximum PSD(dB m/MHz) = Measured PSD (dB m/MHz) + DCF(dB)

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802.11ax HE20 SISO in the UNII-3 band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/500 kHz)	Measured PSD ANT 2 (dBm/500 kHz)	DCF (dB)	Maximum PSD ANT 1 (dBm/500 kHz)	Maximum PSD ANT 2 (dBm/500 kHz)	Maximum PSD Limit (dBm/500 kHz)
							Average	Average	
Straddle	5 720	26T	8	3.46	4.04	0.10	3.56	4.14	30.00
		52T	40	1.1	0.92	0.10	1.20	1.02	30.00
Low	5 745	26T	0	3.72	4.11	0.10	3.82	4.21	30.00
			4	3.93	4.55	0.10	4.03	4.65	30.00
			8	3.94	4.25	0.10	4.04	4.35	30.00
		52T	37	0.81	1.31	0.10	0.91	1.41	30.00
			38	1.09	1.55	0.10	1.19	1.65	30.00
			40	1.04	1.49	0.10	1.14	1.59	30.00
		106T	53	-2.40	-2.08	0.19	-2.21	-1.89	30.00
			54	-2.27	-1.79	0.19	-2.08	-1.60	30.00
		SU	-	-1.69	-1.59	0.60	-1.09	-0.99	30.00
		Mid	5 785	26T	0	3.83	4.01	0.10	3.93
4	3.84				4.23	0.10	3.94	4.33	30.00
8	3.57				3.96	0.10	3.67	4.06	30.00
52T	37			0.83	1.09	0.10	0.93	1.19	30.00
	38			0.89	1.58	0.10	0.99	1.68	30.00
	40			0.53	1.35	0.10	0.63	1.45	30.00
106T	53			-2.51	-1.94	0.19	-2.32	-1.75	30.00
	54			-2.57	-1.65	0.19	-2.38	-1.46	30.00
SU	-			-1.85	-1.80	0.60	-1.25	-1.20	30.00
High	5 825			26T	0	3.64	4.13	0.10	3.74
		4	3.78		4.36	0.10	3.88	4.46	30.00
		8	3.82		4.16	0.10	3.92	4.26	30.00
		52T	37	0.76	1.20	0.10	0.86	1.30	30.00
			38	1.03	1.41	0.10	1.13	1.51	30.00
			40	0.77	1.21	0.10	0.87	1.31	30.00
		106T	53	-2.49	-1.81	0.19	-2.30	-1.62	30.00
			54	-2.41	-1.80	0.19	-2.22	-1.61	30.00
		SU	-	-1.84	-1.60	0.60	-1.24	-1.00	30.00

Notes:

1. Maximum PSD(dB m/MHz) = Measured PSD (dB m/MHz) + DCF(dB)

802.11ax HE40 SISO in the UNII-3 band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/500 kHz)	Measured PSD ANT 2 (dBm/500 kHz)	DCF (dB)	Maximum PSD ANT 1 (dBm/500 kHz)	Maximum PSD ANT 2 (dBm/500 kHz)	Maximum PSD Limit (dBm/500 kHz)		
							Average	Average			
Straddle	5 710	26T	17	3.10	3.61	0.10	3.20	3.71	30.00		
		52T	44	0.47	0.17	0.14	0.61	0.31	30.00		
Low	5 755	26T	0	3.50	4.11	0.10	3.60	4.21	30.00		
			9	4.30	4.65	0.10	4.40	4.75	30.00		
			17	3.59	4.13	0.10	3.69	4.23	30.00		
		52T	37	0.53	0.96	0.14	0.67	1.10	30.00		
			41	1.32	1.80	0.14	1.46	1.94	30.00		
			44	0.67	1.02	0.14	0.81	1.16	30.00		
		106T	53	-2.22	-2.09	0.29	-1.93	-1.80	30.00		
			54	-1.90	-1.57	0.29	-1.61	-1.28	30.00		
			56	-2.30	-1.87	0.29	-2.01	-1.58	30.00		
		242T	61	-5.41	-5.28	0.49	-4.92	-4.79	30.00		
			62	-5.49	-5.32	0.49	-5.00	-4.83	30.00		
		SU	-	-5.45	-5.24	0.88	-4.57	-4.36	30.00		
		High	5 795	26T	0	3.25	3.71	0.10	3.35	3.81	30.00
					9	4.22	4.67	0.10	4.32	4.77	30.00
17	2.97				3.51	0.10	3.07	3.61	30.00		
52T	37			0.25	0.74	0.14	0.39	0.88	30.00		
	41			1.05	1.90	0.14	1.19	2.04	30.00		
	44			0.05	0.52	0.14	0.19	0.66	30.00		
106T	53			-2.26	-1.98	0.29	-1.97	-1.69	30.00		
	54			-1.92	-1.44	0.29	-1.63	-1.15	30.00		
	56			-2.56	-2.01	0.29	-2.27	-1.72	30.00		
242T	61			-5.67	-5.57	0.49	-5.18	-5.08	30.00		
	62			-5.65	-5.36	0.49	-5.16	-4.87	30.00		
SU	-			-5.62	-5.39	0.88	-4.74	-4.51	30.00		

Notes:

1. Maximum PSD(dB m/MHz) = Measured PSD (dB m/MHz) + DCF(dB)

802.11ax HE80 SISO in the UNII-3 band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/500 kHz)	Measured PSD ANT 2 (dBm/500 kHz)	DCF (dB)	Maximum PSD ANT 1 (dBm/500 kHz)	Maximum PSD ANT 2 (dBm/500 kHz)	Maximum PSD Limit (dBm/500 kHz)
							Average	Average	
Straddle	5 690	26T	36	3.24	3.24	0.09	3.33	3.33	30.00
		52T	52	0.85	0.38	0.13	0.98	0.51	30.00
Low	5 775	26T	0	3.57	3.69	0.09	3.66	3.78	30.00
			18	3.49	3.38	0.09	3.58	3.47	30.00
			36	3.70	3.59	0.09	3.79	3.68	30.00
		52T	37	0.64	0.64	0.13	0.77	0.77	30.00
			45	0.80	0.95	0.13	0.93	1.08	30.00
			52	0.74	0.80	0.13	0.87	0.93	30.00
		106T	53	-2.34	-2.56	0.20	-2.14	-2.36	30.00
			57	-2.24	-2.23	0.20	-2.04	-2.03	30.00
			60	-2.16	-2.25	0.20	-1.96	-2.05	30.00
		242T	61	-5.29	-5.71	0.61	-4.68	-5.10	30.00
			62	-5.39	-5.53	0.61	-4.78	-4.92	30.00
			64	-5.53	-5.80	0.61	-4.92	-5.19	30.00
		484T	65	-8.57	-8.68	0.76	-7.81	-7.92	30.00
			66	-8.58	-8.71	0.76	-7.82	-7.95	30.00
		SU	-	-9.83	-10.03	1.54	-8.29	-8.49	30.00

Notes:

1. Maximum PSD(dB m/MHz) = Measured PSD (dB m/MHz) + DCF(dB)

802.11ax HE20 SISO in the Straddle

Band	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1	Measured PSD ANT 2	DCF (dB)	Maximum PSD ANT 1	Maximum PSD ANT 2	Maximum PSD Limit
							Average	Average	
UNII-2C	5 720	106T	54	1.45	0.75	0.19	1.64	0.94	11.00
		SU	-	-1.90	-2.44	0.60	-1.30	-1.84	11.00
UNII-3		106T	54	-1.61	-2.31	0.19	-1.42	-2.12	30.00
		SU	-	-5.15	-5.72	0.60	-4.55	-5.12	30.00

802.11ax HE40 SISO in the Straddle

Band	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1	Measured PSD ANT 2	DCF (dB)	Maximum PSD ANT 1	Maximum PSD ANT 2	Maximum PSD Limit
							Average	Average	
UNII-2C	5 710	106T	56	1.37	0.89	0.29	1.66	1.18	11.00
		242T	62	-2.17	2.47	0.49	-1.68	2.96	11.00
		SU	-	-5.22	-5.63	0.88	-4.34	-4.75	11.00
UNII-3		106T	56	-1.79	-2.22	0.29	-1.50	-1.93	30.00
		242T	62	-5.83	-6.03	0.49	-5.34	-5.54	30.00
		SU	-	-8.86	-9.31	0.88	-7.98	-8.43	30.00

802.11ax HE80 SISO in the Straddle

Band	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1	Measured PSD ANT 2	DCF (dB)	Maximum PSD ANT 1	Maximum PSD ANT 2	Maximum PSD Limit
							Average	Average	
UNII-2C	5 690	106T	60	1.12	0.92	0.20	1.32	1.12	11.00
		242T	64	-2.04	-2.59	0.61	-1.43	-1.98	11.00
		484T	66	-4.85	-5.62	0.76	-4.09	-4.86	11.00
		SU	-	-8.29	-8.93	1.54	-6.75	-7.39	11.00
UNII-3		106T	60	-2.14	-2.22	0.20	-1.94	-2.02	30.00
		242T	64	-5.58	-6.07	0.61	-4.97	-5.46	30.00
		484T	66	-9.4	-10.08	0.76	-8.64	-9.32	30.00
		SU	-	-13.01	-13.89	1.54	-11.47	-12.35	30.00

Note:

1. Maximum PSD(dBm/MHz) = Measured PSD (dBm/MHz) + DCF(dB)
2. The Unit of UNII-2C is (dB m / MHz) and Unit of UNII-3 is (dB m / 500 kHz)

802.11ax HE20 MIMO in the UNII-1 band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	
Low	5 180	26T	0	7.73	5.37	0.11	9.83	11.00
			4	6.87	4.90	0.11	9.12	11.00
			8	7.48	5.92	0.11	9.89	11.00
		52T	37	4.69	2.47	0.23	6.96	11.00
			38	4.82	3.79	0.23	7.58	11.00
			40	4.59	3.10	0.23	7.15	11.00
		106T	53	1.47	-0.33	0.39	4.06	11.00
			54	1.57	-0.41	0.39	4.09	11.00
		SU	-	0.77	0.36	0.87	4.45	11.00
		Mid	5 200	26T	0	7.83	6.16	0.11
4	6.67				5.35	0.11	9.18	11.00
8	7.06				5.97	0.11	9.67	11.00
52T	37			4.83	3.26	0.23	7.36	11.00
	38			4.62	3.48	0.23	7.33	11.00
	40			4.36	3.20	0.23	7.06	11.00
106T	53			1.46	0.20	0.39	4.28	11.00
	54			1.23	-0.15	0.39	3.99	11.00
SU	-			0.63	0.23	0.87	4.31	11.00
High	5 240			26T	0	7.46	5.22	0.11
		4	6.58		4.68	0.11	8.85	11.00
		8	7.24		5.86	0.11	9.72	11.00
		52T	37	4.45	2.33	0.23	6.76	11.00
			38	4.57	2.58	0.23	6.93	11.00
			40	4.40	2.92	0.23	6.96	11.00
		106T	53	1.20	-0.67	0.39	3.77	11.00
			54	1.26	-0.61	0.39	3.83	11.00
		SU	-	1.15	0.72	0.87	4.82	11.00

Note:

1. Maximum PSD(dB m/MHz) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m/MHz) + DCF(dB)

802.11ax HE40 MIMO in the UNII-1 band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD (dBm/MHz)	Maximum PSD Limit (dBm/MHz)		
							Average			
Low	5 190	26T	0	7.18	5.32	0.11	9.47	11.00		
			9	7.87	6.50	0.11	10.36	11.00		
			17	6.78	5.60	0.11	9.35	11.00		
		52T	37	3.93	1.49	0.23	6.12	11.00		
			41	4.44	3.03	0.23	7.03	11.00		
			44	3.53	2.28	0.23	6.19	11.00		
		106T	53	1.07	-1.17	0.47	3.57	11.00		
			54	1.12	-0.54	0.47	3.85	11.00		
			56	0.32	-0.48	0.47	3.42	11.00		
		242T	61	-2.79	-4.31	0.72	0.25	11.00		
			62	-2.90	-3.86	0.72	0.38	11.00		
		SU	-	-3.44	-3.97	1.44	0.75	11.00		
		High	5 230	26T	0	6.29	5.34	0.11	8.96	11.00
					9	7.14	5.65	0.11	9.58	11.00
17	7.01				5.21	0.11	9.32	11.00		
52T	37			3.13	1.98	0.23	5.83	11.00		
	41			4.28	2.25	0.23	6.62	11.00		
	44			3.68	1.79	0.23	6.08	11.00		
106T	53			0.18	-1.39	0.47	2.95	11.00		
	54			0.81	-0.89	0.47	3.52	11.00		
	56			0.50	-1.16	0.47	3.23	11.00		
242T	61			-3.16	-4.43	0.72	-0.02	11.00		
	62			-3.07	-5.03	0.72	-0.21	11.00		
SU	-			-3.13	-3.68	1.44	1.05	11.00		

Note:

1. Maximum PSD(dB m/MHz) = 10log(10^(ANT 1/10) + 10^(ANT 2/10)) (dB m/MHz) + DCF(dB)

802.11ax HE80 MIMO in the UNII-1 band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	
Low	5 210	26T	0	7.25	5.00	0.14	9.42	11.00
			18	5.78	4.77	0.14	8.45	11.00
			36	6.83	5.43	0.14	9.34	11.00
		52T	37	3.75	2.17	0.31	6.35	11.00
			45	3.44	2.82	0.31	6.46	11.00
			52	3.50	2.49	0.31	6.34	11.00
		106T	53	0.53	-0.99	0.41	3.26	11.00
			57	0.27	-0.56	0.41	3.30	11.00
			60	0.30	-0.65	0.41	3.27	11.00
		242T	61	-4.28	-3.74	0.98	-0.01	11.00
			62	-4.40	-3.64	0.98	-0.01	11.00
			64	-4.22	-4.12	0.98	-0.18	11.00
		484T	65	-7.37	-6.55	1.15	-2.78	11.00
			66	-7.53	-7.37	1.15	-3.29	11.00
		SU	-	-7.71	-8.10	2.09	-2.80	11.00

Note:

1. Maximum PSD(dB m/MHz) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m/MHz) + DCF(dB)

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802.11ax HE20 MIMO in the UNII-2A band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	
Low	5 260	26T	0	7.83	5.68	0.11	10.01	11.00
			4	6.65	5.24	0.11	9.12	11.00
			8	7.11	5.92	0.11	9.68	11.00
		52T	37	4.76	3.02	0.23	7.22	11.00
			38	4.83	3.04	0.23	7.27	11.00
			40	4.41	3.36	0.23	7.16	11.00
		106T	53	1.59	-0.13	0.39	4.21	11.00
			54	1.45	-0.48	0.39	3.99	11.00
		SU	-	1.18	0.67	0.87	4.81	11.00
		Mid	5 280	26T	0	7.25	5.91	0.11
4	6.20				4.94	0.11	8.74	11.00
8	7.04				5.73	0.11	9.55	11.00
52T	37			4.17	2.78	0.23	6.77	11.00
	38			4.44	3.14	0.23	7.08	11.00
	40			4.31	2.86	0.23	6.89	11.00
106T	53			1.06	-0.27	0.39	3.85	11.00
	54			1.23	-0.83	0.39	3.72	11.00
SU	-			1.49	0.85	0.87	5.06	11.00
High	5 320			26T	0	7.60	5.47	0.11
		4	6.34		4.93	0.11	8.81	11.00
		8	7.01		5.52	0.11	9.45	11.00
		52T	37	4.51	2.92	0.23	7.03	11.00
			38	4.68	2.95	0.23	7.14	11.00
			40	4.14	3.15	0.23	6.91	11.00
		106T	53	1.43	-0.31	0.39	4.05	11.00
			54	1.18	-0.86	0.39	3.68	11.00
		SU	-	1.42	0.78	0.87	4.99	11.00

Note:

1. Maximum PSD(dB m/MHz) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m/MHz) + DCF(dB)

802.11ax HE40 MIMO in the UNII-2A band

	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD (dBm/MHz)	Maximum PSD Limit (dBm/MHz)		
							Average			
Low	5 270	26T	0	7.26	5.43	0.11	9.56	11.00		
			9	7.14	6.45	0.11	9.93	11.00		
			17	6.61	5.25	0.11	9.10	11.00		
		52T	37	3.81	1.93	0.23	6.21	11.00		
			41	3.73	2.44	0.23	6.37	11.00		
			44	3.39	1.60	0.23	5.83	11.00		
		106T	53	0.86	-0.87	0.47	3.56	11.00		
			54	1.02	-0.44	0.47	3.83	11.00		
			56	0.13	-1.20	0.47	3.00	11.00		
		242T	61	-2.94	-4.48	0.72	0.09	11.00		
			62	-3.42	-4.58	0.72	-0.23	11.00		
		SU	-	-3.01	-3.35	1.44	1.27	11.00		
		High	5 310	26T	0	6.71	4.75	0.11	8.96	11.00
					9	7.53	5.87	0.11	9.90	11.00
17	6.50				5.14	0.11	8.99	11.00		
52T	37			3.50	1.44	0.23	5.83	11.00		
	41			4.33	2.11	0.23	6.60	11.00		
	44			3.27	1.73	0.23	5.81	11.00		
106T	53			0.62	-1.59	0.47	3.13	11.00		
	54			0.90	-1.24	0.47	3.44	11.00		
	56			0.35	-1.39	0.47	3.05	11.00		
242T	61			-3.07	-4.94	0.72	-0.17	11.00		
	62			-3.10	-4.87	0.72	-0.17	11.00		
SU	-			-2.99	-3.43	1.44	1.25	11.00		

Note:

1. Maximum PSD(dB m/MHz) = 10log(10^(ANT 1/10) + 10^(ANT 2/10)) (dB m/MHz) + DCF(dB)

802.11ax HE80 MIMO in the UNII-2A band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	
Low	5 290	26T	0	7.26	5.39	0.14	9.58	11.00
			18	5.91	4.22	0.14	8.30	11.00
			36	6.53	5.16	0.14	9.05	11.00
		52T	37	3.84	2.52	0.31	6.55	11.00
			45	4.12	2.19	0.31	6.58	11.00
			52	3.68	2.42	0.31	6.41	11.00
		106T	53	0.59	-0.36	0.41	3.56	11.00
			57	0.74	-1.21	0.41	3.30	11.00
			60	0.63	-0.83	0.41	3.38	11.00
		242T	61	-3.85	-3.72	0.98	0.20	11.00
			62	-3.83	-3.95	0.98	0.10	11.00
			64	-4.28	-4.38	0.98	-0.34	11.00
		484T	65	-6.83	-7.06	1.15	-2.79	11.00
			66	-7.16	-7.44	1.15	-3.14	11.00
		SU	-	-7.14	-7.47	2.09	-2.20	11.00

Note:

1. Maximum PSD(dB m/MHz) = $10\log(10^{(\text{ANT 1}/10)} + 10^{(\text{ANT 2}/10)})$ (dB m/MHz) + DCF(dB)

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802.11ax HE20 MIMO in the UNII-2C band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	
Low	5 500	26T	0	7.05	5.21	0.11	9.35	11.00
			4	6.13	4.86	0.11	8.66	11.00
			8	6.91	5.62	0.11	9.43	11.00
		52T	37	4.33	2.61	0.23	6.79	11.00
			38	4.38	2.69	0.23	6.86	11.00
			40	4.19	2.97	0.23	6.86	11.00
		106T	53	1.20	-0.96	0.39	3.65	11.00
			54	1.31	-0.82	0.39	3.77	11.00
		SU	-	-0.04	0.30	0.87	4.01	11.00
		Mid	5 580	26T	0	7.11	6.24	0.11
4	5.94				5.50	0.11	8.85	11.00
8	6.66				6.22	0.11	9.57	11.00
52T	37			4.55	3.51	0.23	7.30	11.00
	38			4.41	3.66	0.23	7.29	11.00
	40			4.01	3.72	0.23	7.11	11.00
106T	53			1.12	0.29	0.39	4.13	11.00
	54			0.93	-0.53	0.39	3.66	11.00
SU	-			0.85	0.97	0.87	4.79	11.00
High	5 700			26T	0	6.99	6.50	0.11
		4	5.85		5.73	0.11	8.91	11.00
		8	6.59		6.49	0.11	9.66	11.00
		52T	37	4.26	3.67	0.23	7.22	11.00
			38	4.18	3.79	0.23	7.23	11.00
			40	3.97	3.84	0.23	7.15	11.00
		106T	53	0.98	0.18	0.39	4.00	11.00
			54	1.00	0.13	0.39	3.99	11.00
		SU	-	1.57	1.53	0.87	5.43	11.00
		Straddle	5 720	26T	0	6.73	7.01	0.11
4	5.83				6.10	0.11	9.09	11.00
52T	37			4.43	4.16	0.23	7.54	11.00
	38			4.49	4.06	0.23	7.52	11.00
106T	53			1.48	1.03	0.39	4.66	11.00

Note:

1. Maximum PSD(dB m/MHz) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m/MHz) + DCF(dB)

802.11ax HE40 MIMO in the UNII-2C band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD (dBm/MHz)	Maximum PSD Limit (dBm/MHz)		
							Average			
Low	5 510	26T	0	6.75	4.82	0.11	9.01	11.00		
			9	7.56	6.93	0.11	10.38	11.00		
			17	6.46	6.06	0.11	9.38	11.00		
		52T	37	3.50	1.56	0.23	5.88	11.00		
			41	4.34	3.52	0.23	7.19	11.00		
			44	3.22	2.75	0.23	6.23	11.00		
		106T	53	0.55	-1.54	0.47	3.11	11.00		
			54	0.86	-0.86	0.47	3.56	11.00		
			56	0.18	-0.60	0.47	3.29	11.00		
		242T	61	-3.19	-4.70	0.72	-0.15	11.00		
			62	-3.18	-3.93	0.72	0.19	11.00		
		SU	-	-4.21	-3.81	1.44	0.44	11.00		
		Mid	5 590	26T	0	6.69	5.96	0.11	9.46	11.00
					9	6.75	6.56	0.11	9.78	11.00
17	6.00				5.59	0.11	8.92	11.00		
52T	37			3.51	2.51	0.23	6.28	11.00		
	41			3.58	3.16	0.23	6.62	11.00		
	44			2.93	1.97	0.23	5.72	11.00		
106T	53			0.46	-0.88	0.47	3.32	11.00		
	54			0.38	-0.62	0.47	3.39	11.00		
	56			-0.57	-0.93	0.47	2.73	11.00		
242T	61			-3.88	-4.38	0.72	-0.39	11.00		
	62			-4.03	-4.34	0.72	-0.45	11.00		
SU	-			-3.78	-3.50	1.44	0.81	11.00		
High	5 670			26T	0	6.13	5.72	0.11	9.05	11.00
					9	7.40	6.39	0.11	10.04	11.00
		17	6.47		5.49	0.11	9.13	11.00		
		52T	37	3.25	2.30	0.23	6.04	11.00		
			41	4.07	2.94	0.23	6.78	11.00		
			44	3.20	2.12	0.23	5.93	11.00		
		106T	53	-0.25	-0.77	0.47	2.98	11.00		
			54	0.20	-0.54	0.47	3.33	11.00		
			56	0.17	-1.04	0.47	3.09	11.00		
		242T	61	-3.84	-3.08	0.72	0.29	11.00		
			62	-3.33	-4.50	0.72	-0.15	11.00		
		SU	-	-2.95	-2.73	1.44	1.61	11.00		

Note:

1. Maximum PSD(dB m/MHz) = 10log(10^(ANT 1/10) + 10^(ANT 2/10)) (dB m/MHz) + DCF(dB)

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	
Straddle	5 710	26T	0	7.04	6.21	0.11	9.77	11.00
			9	7.02	7.06	0.11	10.16	11.00
		52T	37	4.26	3.94	0.23	7.34	11.00
			41	4.95	4.34	0.23	7.90	11.00
		106T	53	1.31	1.09	0.47	4.68	11.00
			54	1.30	0.51	0.47	4.40	11.00
		242T	61	-2.13	-2.89	0.72	1.24	11.00

Note:

1. Maximum PSD(dB m/MHz) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m/MHz) + DCF_(dB)

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802.11ax HE80 MIMO in the UNII-2C band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	
Low	5 530	26T	0	6.88	4.98	0.14	9.19	11.00
			18	5.43	4.80	0.14	8.28	11.00
			36	6.53	5.32	0.14	9.12	11.00
		52T	37	2.90	2.41	0.31	5.98	11.00
			45	2.86	3.05	0.31	6.28	11.00
			52	2.80	2.50	0.31	5.97	11.00
		106T	53	-0.76	-1.11	0.41	2.49	11.00
			57	-0.33	-0.11	0.41	3.20	11.00
			60	-0.68	-0.86	0.41	2.65	11.00
		242T	61	-4.91	-4.05	0.98	-0.47	11.00
			62	-5.14	-3.71	0.98	-0.38	11.00
			64	-4.81	-4.32	0.98	-0.57	11.00
		484T	65	-8.09	-6.73	1.15	-3.20	11.00
			66	-7.85	-6.84	1.15	-3.16	11.00
		SU	-	-8.34	-8.14	2.09	-3.14	11.00
		High	5 610	26T	0	6.80	5.80	0.14
18	5.52				4.55	0.14	8.22	11.00
36	6.35				5.96	0.14	9.31	11.00
52T	37			3.28	3.12	0.31	6.52	11.00
	45			3.30	2.82	0.31	6.39	11.00
	52			3.07	3.21	0.31	6.46	11.00
106T	53			-0.10	0.03	0.41	3.39	11.00
	57			0.13	-0.09	0.41	3.44	11.00
	60			0.86	0.52	0.41	4.12	11.00
242T	61			-4.45	-3.48	0.98	0.05	11.00
	62			-4.74	-3.91	0.98	-0.32	11.00
	64			-4.11	-3.36	0.98	0.27	11.00
484T	65			-7.57	-6.72	1.15	-2.97	11.00
	66			-6.99	-6.70	1.15	-2.69	11.00
SU	-			-7.72	-7.69	2.09	-2.61	11.00

Note:

1. Maximum PSD(dB m/MHz) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m/MHz) + DCF(dB)

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/MHz)	Measured PSD ANT 2 (dBm/MHz)	DCF (dB)	Maximum PSD (dBm/MHz)	Maximum PSD Limit (dBm/MHz)
							Average	
Straddle	5 690	26T	0	6.58	5.69	0.14	9.31	11.00
			18	5.38	5.72	0.14	8.70	11.00
		52T	37	4.29	3.10	0.31	7.06	11.00
			45	4.41	4.22	0.31	7.64	11.00
		106T	53	1.09	0.35	0.41	4.16	11.00
			57	1.35	1.04	0.41	4.62	11.00
		242T	61	-2.83	-3.08	0.98	1.04	11.00
			62	-3.02	-3.71	0.98	0.64	11.00
		484T	65	-5.68	-6.65	1.15	-1.98	11.00

Note:

1. Maximum PSD(dB m/MHz) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m/MHz) + DCF(dB)

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802.11ax HE20 MIMO in the UNII-3 band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/500kHz)	Measured PSD ANT 2 (dBm/500kHz)	DCF (dB)	Maximum PSD (dBm/500kHz)	Maximum PSD Limit (dBm/500kHz)
							Average	
Straddle	5 720	26T	8	4.14	3.68	0.11	7.04	30.00
		52T	40	1.01	0.89	0.23	4.19	30.00
Low	5 745	26T	0	4.49	4.18	0.11	7.46	30.00
			4	4.34	4.03	0.11	7.31	30.00
			8	4.31	3.97	0.11	7.26	30.00
		52T	37	1.38	0.81	0.23	4.34	30.00
			38	1.30	0.94	0.23	4.36	30.00
			40	1.22	0.99	0.23	4.35	30.00
		106T	53	-2.13	-2.76	0.39	0.97	30.00
			54	-2.22	-2.75	0.39	0.92	30.00
		SU	-	-1.37	-1.21	0.87	2.59	30.00
		Mid	5 785	26T	0	4.13	4.03	0.11
4	4.14				4.25	0.11	7.32	30.00
8	3.96				4.04	0.11	7.12	30.00
52T	37			1.34	1.06	0.23	4.44	30.00
	38			1.15	1.11	0.23	4.37	30.00
	40			0.78	1.21	0.23	4.24	30.00
106T	53			-2.23	-2.63	0.39	0.97	30.00
	54			-2.34	-2.53	0.39	0.97	30.00
SU	-			-1.64	-1.27	0.87	2.43	30.00
High	5 825			26T	0	3.87	3.79	0.11
		4	4.04		3.89	0.11	7.09	30.00
		8	3.95		3.65	0.11	6.92	30.00
		52T	37	0.94	0.84	0.23	4.13	30.00
			38	0.94	1.09	0.23	4.26	30.00
			40	0.76	0.84	0.23	4.04	30.00
		106T	53	-2.44	-2.87	0.39	0.75	30.00
			54	-2.38	-3.06	0.39	0.69	30.00
		SU	-	-1.93	-1.49	0.87	2.18	30.00

Note:

1. Maximum PSD(dB m/MHz) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m/MHz) + DCF(dB)

802.11ax HE40 MIMO in the UNII-3 band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/500kHz)	Measured PSD ANT 2 (dBm/500kHz)	DCF (dB)	Maximum PSD (dBm/500kHz)	Maximum PSD Limit (dBm/500kHz)		
							Average			
Straddle	5 710	26T	17	3.94	2.78	0.11	6.52	30.00		
		52T	44	0.87	0.27	0.23	3.82	30.00		
Low	5 755	26T	0	3.94	3.48	0.11	6.84	30.00		
			9	4.68	4.47	0.11	7.70	30.00		
			17	4.18	3.82	0.11	7.12	30.00		
		52T	37	0.44	-0.19	0.23	3.38	30.00		
			41	1.20	0.85	0.23	4.27	30.00		
			44	0.49	-0.15	0.23	3.43	30.00		
		106T	53	-2.75	-3.27	0.47	0.48	30.00		
			54	-2.38	-3.09	0.47	0.76	30.00		
			56	-2.87	-3.28	0.47	0.41	30.00		
		242T	61	-6.09	-6.49	0.72	-2.56	30.00		
			62	-6.07	-6.39	0.72	-2.50	30.00		
		SU	-	-5.27	-5.14	1.44	-0.75	30.00		
		High	5 795	26T	0	3.59	3.60	0.11	6.72	30.00
					9	4.66	4.40	0.11	7.65	30.00
17	3.22				3.29	0.11	6.38	30.00		
52T	37			-0.05	-0.16	0.23	3.14	30.00		
	41			0.98	0.88	0.23	4.17	30.00		
	44			-0.50	-0.59	0.23	2.70	30.00		
106T	53			-3.23	-3.15	0.47	0.29	30.00		
	54			-2.83	-2.68	0.47	0.73	30.00		
	56			-3.50	-3.49	0.47	-0.01	30.00		
242T	61			-6.49	-6.21	0.72	-2.62	30.00		
	62			-6.37	-6.23	0.72	-2.57	30.00		
SU	-			-5.41	-5.21	1.44	-0.86	30.00		

Note:

1. Maximum PSD(dB m/MHz) = $10\log(10^{(\text{ANT } 1/10)} + 10^{(\text{ANT } 2/10)})$ (dB m/MHz) + DCF(dB)

802.11ax HE80 MIMO in the UNII-3 band

Channel	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1 (dBm/500kHz)	Measured PSD ANT 2 (dBm/500kHz)	DCF (dB)	Maximum PSD (dBm/500kHz)	Maximum PSD Limit (dBm/500kHz)
							Average	
Straddle	5 690	26T	36	3.55	3.47	0.14	6.66	30.00
		52T	52	0.90	0.46	0.31	4.01	30.00
Low	5 775	26T	0	7.25	5.00	0.14	9.42	30.00
			18	5.78	4.77	0.14	8.45	30.00
			36	6.83	5.43	0.14	9.34	30.00
		52T	37	3.75	2.17	0.31	6.35	30.00
			45	3.44	2.82	0.31	6.46	30.00
			52	3.50	2.49	0.31	6.34	30.00
		106T	53	0.53	-0.99	0.41	3.26	30.00
			57	0.27	-0.56	0.41	3.30	30.00
			60	0.30	-0.65	0.41	3.27	30.00
		242T	61	-4.28	-3.74	0.98	-0.01	30.00
			62	-4.40	-3.64	0.98	-0.01	30.00
			64	-4.22	-4.12	0.98	-0.18	30.00
		484T	65	-7.37	-6.55	1.15	-2.78	30.00
			66	-7.53	-7.37	1.15	-3.29	30.00
		SU	-	-9.97	-9.93	2.09	-4.85	30.00

Note:

1. Maximum PSD(dB m/MHz) = $10\log(10^{(ANT\ 1/10)} + 10^{(ANT\ 2/10)})$ (dB m/MHz) + DCF(dB)

802.11ax HE20 MIMO in the Straddle

Band	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1	Measured PSD ANT 2	DCF (dB)	Maximum PSD	Maximum PSD Limit
							Average	
UNII-2C	5 720	106T	54	0.43	0.32	0.39	3.78	11.00
		SU	-	-2.83	-2.88	0.87	1.03	11.00
UNII-3		106T	54	-2.60	-2.82	0.39	0.69	30.00
		SU	-	-6.05	-5.96	0.87	-2.12	30.00

802.11ax HE40 MIMO in the Straddle

Band	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1	Measured PSD ANT 2	DCF (dB)	Maximum PSD	Maximum PSD Limit
							Average	
UNII-2C	5 710	106T	56	0.96	-0.19	0.47	3.90	11.00
		242T	62	-2.86	-2.72	0.72	0.94	11.00
		SU	-	-5.75	-6.25	1.44	-1.54	11.00
UNII-3		106T	56	-2.17	-3.14	0.47	0.85	30.00
		242T	62	-6.44	-6.13	0.72	-2.55	30.00
		SU	-	-9.26	-9.84	1.44	-5.09	30.00

802.11ax HE80 MIMO in the Straddle

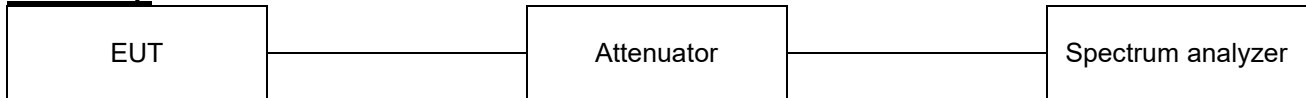
Band	Frequency (MHz)	Tones	RU offset	Measured PSD ANT 1	Measured PSD ANT 2	DCF (dB)	Maximum PSD	Maximum PSD Limit
							Average	
UNII-2C	5 690	106T	60	0.55	0.77	0.41	4.08	11.00
		242T	64	-2.94	-2.36	0.98	1.35	11.00
		484T	66	-5.87	-6.05	1.15	-1.80	11.00
		SU	-	-9.1	-10.77	2.09	-4.75	11.00
UNII-3		106T	60	-2.5	-2.39	0.41	0.98	30.00
		242T	64	-6.44	-5.74	0.98	-2.09	30.00
		484T	66	-10.35	-10.33	1.15	-6.18	30.00
		SU	-	-13.63	-15.14	2.09	-9.22	30.00

Note:

- Maximum PSD(dB m/MHz) = $10\log(10^{(ANT\ 1/10)} + 10^{(ANT\ 2/10)})$ (dB m/MHz) + DCF(dB)
- The Unit of UNII-2C is (dB m / MHz) and Unit of UNII-3 is (dB m / 500 kHz)

8.3. 26 dB Bandwidth & 99% Bandwidth

Test setup



Limit

N/A

Test procedure

ANSI C63.10-2013 Section 12.4

KDB 789033 D02 v02r01 - Section C.1 (26dBbandwidth)

KDB 789033 D02 v02r01 - Section D (99% bandwidth)

Test settings

1. 26 dB Bandwidth

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. 99% Occupied Bandwidth

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1% to 5% of the OBW
- Set VBW $\geq 3 \times$ RBW
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- Use the 99% power bandwidth function of the instrument (if available).
- If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Note:

Please refer to Appendix B,C for plots

Test results

Band	Mode	Frequency (MHz)	Tones	RU offset	26 dB bandwidth (MHz)		99% bandwidth (MHz)	
					ANT 1	ANT 2	ANT 1	ANT 2
UNII-1	HE20	5 180	26T	0	20.23	20.08	18.38	18.43
				4	18.83	18.83	17.33	17.33
				8	20.73	20.63	18.68	18.58
			52T	37	20.43	20.63	18.23	18.33
				38	19.73	19.98	17.33	17.33
				40	20.93	21.08	18.53	18.43
			106T	53	20.88	20.98	18.23	18.23
				54	21.43	21.53	18.53	18.53
			SU	-	21.73	21.78	19.08	19.13
		5 200	26T	0	20.28	20.13	18.48	18.48
				4	19.23	19.28	17.33	17.38
				8	20.73	20.63	18.63	18.73
			52T	37	20.33	20.63	18.28	18.28
				38	19.58	19.98	17.38	17.43
				40	21.23	21.08	18.58	18.58
			106T	53	20.98	21.03	18.23	18.28
				54	21.53	21.48	18.53	18.53
			SU	-	21.78	21.78	19.08	19.08
		5 240	26T	0	20.13	19.78	18.43	18.48
				4	19.23	19.18	17.38	17.38
				8	20.73	20.63	18.68	18.68
			52T	37	20.48	20.58	18.38	18.38
				38	19.48	19.98	17.28	17.43
				40	20.98	21.23	18.58	18.58
			106T	53	20.93	21.03	18.23	18.28
				54	21.53	21.38	18.53	18.53
			SU	-	21.58	21.88	19.13	19.08