

MPE REPORT

Report No.: SRTC2023-9004 (F)- 23051504 (I)
Product Name: Bluetooth / WiFi Module
Model Name: MWH617S
Applicant: Hisense Communication Co., Ltd
Manufacturer: Hisense Communication Co., Ltd
FCC ID: SARMWH617S

Reference Specification
FCC Part §1.1310

The State Radio_monitoring_center Testing Center (SRTC)

15th Building, No.30 Shixing Street, ShijingshanDistrict, Beijing,P.R.China

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1 GENERAL INFORMATION

1.1 Notes of the test report

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The certification and accreditation identifiers used in this report shall not be applicable to the tested or calibrated samples thereof. The manufacturer shall not mark the tested samples or items (or a separate part of the item) with the identifiers of certification and accreditation to mislead relevant parties about the tested samples or items.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Designation number:	CN1267
Registration number:	239125
Certificate Number:	5055.02
Address:	15th Building, No.30 Shixing Street, Shijingshan District, Beijing P.R.China
Contacted person:	Liu Jia
Tel:	+86 10 57996183
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Email:	liujiaf@srtc.org.cn

1.3 Applicant's details

Company:	Hisense Communication Co., Ltd
Address:	Hisense Infor. Industrial Park Economic Technology Dev. District, Qingdao, China

1.4 Manufacturer's details

Company:	Hisense Communication Co., Ltd
Address:	Hisense Infor. Industrial Park Economic Technology Dev. District, Qingdao, China

1.5 Test Environment

Date of Receipt of test sample at SRTC:	2023-05-15
Testing Start Date:	2023-05-16
Testing End Date:	2023-06-07

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	25	40
Maximum Extreme	70	---
Minimum Extreme	-10	---

Normal Supply Voltage (V d.c.):	3.30
Maximum Extreme Supply Voltage (V d.c.):	3.63
Minimum Extreme Supply Voltage (V d.c.):	2.97

2 DESCRIPTION OF THE EQUIPMENT UNDER TEST

2.1 Final equipment build status

BT

Frequency Range:	2.402GHz~2.480GHz
Number of Channel:	79
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Duplex Mode:	TDD
Channel Spacing:	1MHz
Data Rate:	1Mbps, 2 Mbps, 3 Mbps
Power Supply:	DC supply
Software Revision:	NA
Hardware Revision:	V1.00
Antenna Gain:	ANT0: 1.06dBi ANT1: 1.06dBi

BLE

Frequency Range:	2.402GHz~2.480GHz
Number of Channel:	40
Modulation Type:	GFSK
Equipment Class:	DTS
Channel Spacing:	2MHz
Data Rate:	LE 1Mbps/2Mbps/ Coded 125K/coded 500K
Power Supply:	DC supply
Software Revision:	V1.00
Hardware Revision:	NA
Antenna Gain:	ANT0: 1.06dBi ANT1: 1.06dBi

WIFI 2.4G

Frequency Band:	2.412GHz~2.462GHz
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Number of Channel For 20MHz:	11
Number of Channel For 40MHz:	7
Modulation Type:	802.11b 802.11g 802.11n (HT20/HT40) 11ax (HE20/HE40)
Power Supply:	DC supply
Software Revision:	NA
Hardware Revision:	V1.00
Directional gain	1.06dBi
Antenna Gain:	ANT0: 1.06dBi ANT1: 1.06dBi

WIFI 5G

Frequency Band(s):	U-NII-1:5150MHz-5250MHz UNII-2A 5250-5350MHz UNII-2C 5475-5725MHz U-NII-3:5725MHz-5850MHz	
The DFS related operating mode(s) of the equipment:	<input type="checkbox"/>	Master
	<input type="checkbox"/>	Slave with radar detection
	<input checked="" type="checkbox"/>	Slave without radar detection
Modulation Type:	802.11a 802.11n (HT20/HT40) 802.11ac (VHT20/HT40/VHT80) 802.11ax (HE20/HE40/HE80)	
Antenna Type:	HYWF-PIFA	
Antenna Gain:	ANT0: 1.81dBi ANT1: 1.81dBi	
Directional Gain:	1.81dBi	
Power Supply:	DC supply	
Software Revision:	NA	
Hardware Revision:	V1.00	




IMEI:	NA
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3 SPECIFICATION

Specification	Version	Title
Part 1.1310	Latest	Radio frequency radiation exposure limits.

4 RESULT SUMMARY

Case	Verdict
MPE	Pass

This Test Report Is Issued by: Mr. Peng Zhen 	Checked by: Mr. Li Bin 
Tested by: 	Issued date: 20230607

5 CALCULATION RESULT

5.1 Average output power

BT(ANT0)

Test Mode	Frequency (MHz)	Average power output (dBm)	Tune up (dBm)
GFSK(DH5)	2402MHz	7.46	7.5
$\pi/4$ DQPSK(2DH5)	2402MHz	4.75	5.0
8DPSK(3DH5)	2402MHz	4.90	5.0
GFSK(DH5)	2441MHz	7.37	7.5
$\pi/4$ DQPSK(2DH5)	2441MHz	5.00	5.0
8DPSK(3DH5)	2441MHz	4.83	5.0
GFSK(DH5)	2480MHz	8.03	8.5
$\pi/4$ DQPSK(2DH5)	2480MHz	5.48	5.5
8DPSK(3DH5)	2480MHz	5.52	6.0

BT(ANT1)

Test Mode	Frequency (MHz)	Average power output (dBm)	Tune up (dBm)
GFSK(DH5)	2402MHz	7.43	7.5
$\pi/4$ DQPSK(2DH5)	2402MHz	5.33	5.5
8DPSK(3DH5)	2402MHz	5.24	5.5
GFSK(DH5)	2441MHz	6.67	7.0
$\pi/4$ DQPSK(2DH5)	2441MHz	4.65	5.0
8DPSK(3DH5)	2441MHz	4.10	4.5
GFSK(DH5)	2480MHz	7.10	7.5
$\pi/4$ DQPSK(2DH5)	2480MHz	4.23	4.5
8DPSK(3DH5)	2480MHz	5.72	6.0

BLE(ANT0)

Test Mode	Frequency (MHz)	Average power output (dBm)	Tune up (dBm)
GFSK (LE 1Mbps)	2402MHz	3.79	4.0

GFSK (LE 2Mbps)	2402MHz	3.24	3.5
Coded 125K	2402MHz	3.49	3.5
Coded 500K	2402MHz	2.78	3.0
GFSK (LE 1Mbps)	2440MHz	2.92	3.0
GFSK (LE 2Mbps)	2440MHz	2.55	3.0
Coded 125K	2440MHz	2.34	2.5
Coded 500K	2440MHz	2.89	3.0
GFSK (LE 1Mbps)	2480MHz	3.20	3.5
GFSK (LE 2Mbps)	2480MHz	2.84	3.0
Coded 125K	2480MHz	3.06	3.5
Coded 500K	2480MHz	3.18	3.5

BLE(ANT1)

Test Mode	Frequency (MHz)	Average power output (dBm)	Tune up (dBm)
GFSK (LE 1Mbps)	2402MHz	3.73	4.0
GFSK (LE 2Mbps)	2402MHz	3.71	4.0
Coded 125K	2402MHz	3.93	4.0
Coded 500K	2402MHz	3.97	4.0
GFSK (LE 1Mbps)	2440MHz	3.86	4.0
GFSK (LE 2Mbps)	2440MHz	3.95	4.0
Coded 125K	2440MHz	4.01	4.5
Coded 500K	2440MHz	4.05	4.5
GFSK (LE 1Mbps)	2480MHz	3.92	4.0
GFSK (LE 2Mbps)	2480MHz	3.80	4.0
Coded 125K	2480MHz	3.95	4.0
Coded 500K	2480MHz	3.76	4.0

2.4G Wifi

Test Mode	Frequency (MHz)	Antenna	Average power output (dBm)	Tune up (dBm)
802.11b	2412	Chain0	19.65	20.00

802.11b	2412	Chain1	19.96	20.00
802.11b	2437	Chain0	19.56	20.00
802.11b	2437	Chain1	19.80	20.00
802.11b	2462	Chain0	19.76	20.00
802.11b	2462	Chain1	19.50	19.50
802.11g	2412	Chain0	17.59	18.00
802.11g	2412	Chain1	17.89	18.00
802.11g	2437	Chain0	17.04	17.50
802.11g	2437	Chain1	17.54	18.00
802.11g	2462	Chain0	17.30	17.50
802.11g	2462	Chain1	17.46	17.50
802.11n HT20	2412	Chain0	17.44	17.50
802.11n HT20	2412	Chain1	17.70	18.00
802.11n HT20	2412	MIMO	20.58	21.00
802.11n HT20	2437	Chain0	16.95	17.00
802.11n HT20	2437	Chain1	17.15	17.50
802.11n HT20	2437	MIMO	20.06	20.50
802.11n HT20	2462	Chain0	17.22	17.50
802.11n HT20	2462	Chain1	17.32	17.50
802.11n HT20	2462	MIMO	20.28	20.50
802.11n HT40	2422	Chain0	17.53	18.00
802.11n HT40	2422	Chain1	17.81	18.00
802.11n HT40	2422	MIMO	20.68	21.00
802.11n HT40	2437	Chain0	17.73	18.00
802.11n HT40	2437	Chain1	17.70	18.00
802.11n HT40	2437	MIMO	20.73	21.00
802.11n HT40	2452	Chain0	17.97	18.00
802.11n HT40	2452	Chain1	17.82	18.00
802.11n HT40	2452	MIMO	20.91	21.00

Test Mode	Frequency (MHz)	Antenna	Average power output (dBm)	Tune up (dBm)
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802.11ax HE20	2412	Chain0	17.14	17.50
802.11ax HE20	2412	Chain1	20.14	20.50
802.11ax HE20	2412	MIMO	17.42	17.50
802.11ax HE20	2437	Chain0	17.48	17.50
802.11ax HE20	2437	Chain1	20.46	20.50
802.11ax HE20	2437	MIMO	17.30	17.50
802.11ax HE20	2462	Chain0	17.34	17.50
802.11ax HE20	2462	Chain1	20.33	20.50
802.11ax HE20	2462	MIMO	17.15	17.50
802.11ax HE20	2412	Chain0	17.20	17.50
802.11ax HE20	2412	Chain1	20.19	20.50
802.11ax HE20	2412	MIMO	17.32	17.50
802.11ax HE20	2437	Chain0	17.30	17.50
802.11ax HE20	2437	Chain1	20.32	20.50
802.11ax HE20	2437	MIMO	17.14	17.50
802.11ax HE20	2462	Chain0	20.14	20.50
802.11ax HE20	2462	Chain1	17.42	17.50
802.11ax HE20	2462	MIMO	17.48	17.50
802.11ax HE20	2412	Chain0	20.46	20.50
802.11ax HE20	2412	Chain1	17.30	17.50
802.11ax HE20	2412	MIMO	17.34	17.50
802.11ax HE20	2437	Chain0	20.33	20.50
802.11ax HE20	2437	Chain1	17.15	17.50
802.11ax HE20	2437	MIMO	17.20	17.50
802.11ax HE20	2462	Chain0	20.19	20.50
802.11ax HE20	2462	Chain1	17.32	17.50
802.11ax HE20	2462	MIMO	17.30	17.50
802.11ax HE20	2412	Chain0	20.32	20.50
802.11ax HE20	2412	Chain1	17.14	17.50
802.11ax HE20	2412	MIMO	20.14	20.50
802.11ax HE20	2437	Chain0	17.42	17.50
802.11ax HE20	2437	Chain1	17.48	17.50
802.11ax HE20	2437	MIMO	20.46	20.50
802.11ax HE20	2462	Chain0	17.30	17.50

802.11ax HE20	2462	Chain1	17.34	17.50
802.11ax HE20	2462	MIMO	20.33	20.50
802.11ax HE20	2412	Chain0	17.15	17.50
802.11ax HE20	2412	Chain1	17.20	17.50
802.11ax HE20	2412	MIMO	20.19	20.50
802.11ax HE20	2437	Chain0	17.32	17.50
802.11ax HE20	2437	Chain1	17.30	17.50
802.11ax HE20	2437	MIMO	20.32	20.50
802.11ax HE20	2462	Chain0	17.14	17.50
802.11ax HE20	2462	Chain1	20.14	20.50
802.11ax HE20	2462	MIMO	17.42	17.50
802.11ax HE20	2412	Chain0	17.48	17.50
802.11ax HE20	2412	Chain1	20.46	20.50
802.11ax HE20	2412	MIMO	17.30	17.50
802.11ax HE20	2437	Chain0	17.34	17.50
802.11ax HE20	2437	Chain1	20.33	20.50
802.11ax HE20	2437	MIMO	17.15	17.50
802.11ax HE20	2462	Chain0	17.20	17.50
802.11ax HE20	2462	Chain1	20.19	20.50
802.11ax HE20	2462	MIMO	17.32	17.50
802.11ax HE20	2412	Chain0	17.30	17.50
802.11ax HE20	2412	Chain1	20.32	20.50
802.11ax HE20	2412	MIMO	17.14	17.50
802.11ax HE20	2437	Chain0	20.14	20.50
802.11ax HE20	2437	Chain1	17.42	17.50
802.11ax HE20	2437	MIMO	17.48	17.50
802.11ax HE20	2462	Chain0	20.46	20.50
802.11ax HE20	2462	Chain1	17.30	17.50
802.11ax HE20	2462	MIMO	17.34	17.50
802.11ax HE20	2412	Chain0	20.33	20.50
802.11ax HE20	2412	Chain1	17.15	17.50
802.11ax HE20	2412	MIMO	17.20	17.50
802.11ax HE20	2437	Chain0	20.19	20.50
802.11ax HE20	2437	Chain1	17.32	17.50

802.11ax HE20	2437	MIMO	17.30	17.50
802.11ax HE20	2462	Chain0	20.32	20.50
802.11ax HE20	2462	Chain1	17.14	17.50
802.11ax HE20	2462	MIMO	20.14	20.50
802.11ax HE20	2412	Chain0	17.42	17.50
802.11ax HE20	2412	Chain1	17.48	17.50
802.11ax HE20	2412	MIMO	20.46	20.50
802.11ax HE20	2437	Chain0	17.30	17.50
802.11ax HE20	2437	Chain1	17.34	17.50
802.11ax HE20	2437	MIMO	20.33	20.50
802.11ax HE20	2462	Chain0	17.15	17.50
802.11ax HE20	2462	Chain1	17.20	17.50
802.11ax HE20	2462	MIMO	20.19	20.50
802.11ax HE40	2422	Chain0	17.32	17.50
802.11ax HE40	2422	Chain1	17.30	17.50
802.11ax HE40	2422	MIMO	20.32	20.50
802.11ax HE40	2437	Chain0	17.14	17.50
802.11ax HE40	2437	Chain1	20.14	20.50
802.11ax HE40	2437	MIMO	17.42	17.50
802.11ax HE40	2452	Chain0	17.48	17.50
802.11ax HE40	2452	Chain1	20.46	20.50
802.11ax HE40	2452	MIMO	17.30	17.50
802.11ax HE40	2422	Chain0	17.34	17.50
802.11ax HE40	2422	Chain1	20.33	20.50
802.11ax HE40	2422	MIMO	17.15	17.50
802.11ax HE40	2437	Chain0	17.20	17.50
802.11ax HE40	2437	Chain1	20.19	20.50
802.11ax HE40	2437	MIMO	17.32	17.50
802.11ax HE40	2452	Chain0	17.30	17.50
802.11ax HE40	2452	Chain1	20.32	20.50
802.11ax HE40	2452	MIMO	17.14	17.50
802.11ax HE40	2422	Chain0	20.14	20.50
802.11ax HE40	2422	Chain1	17.42	17.50
802.11ax HE40	2422	MIMO	17.48	17.50

802.11ax HE40	2437	Chain0	20.46	20.50
802.11ax HE40	2437	Chain1	17.30	17.50
802.11ax HE40	2437	MIMO	17.34	17.50
802.11ax HE40	2452	Chain0	20.33	20.50
802.11ax HE40	2452	Chain1	17.15	17.50
802.11ax HE40	2452	MIMO	17.20	17.50
802.11ax HE40	2422	Chain0	20.19	20.50
802.11ax HE40	2422	Chain1	17.32	17.50
802.11ax HE40	2422	MIMO	17.30	17.50
802.11ax HE40	2437	Chain0	20.32	20.50
802.11ax HE40	2437	Chain1	17.14	17.50
802.11ax HE40	2437	MIMO	20.14	20.50
802.11ax HE40	2452	Chain0	17.42	17.50
802.11ax HE40	2452	Chain1	17.48	17.50
802.11ax HE40	2452	MIMO	20.46	20.50
802.11ax HE40	2422	Chain0	17.30	17.50
802.11ax HE40	2422	Chain1	17.34	17.50
802.11ax HE40	2422	MIMO	20.33	20.50
802.11ax HE40	2437	Chain0	17.15	17.50
802.11ax HE40	2437	Chain1	17.20	17.50
802.11ax HE40	2437	MIMO	20.19	20.50
802.11ax HE40	2452	Chain0	17.32	17.50
802.11ax HE40	2452	Chain1	17.30	17.50
802.11ax HE40	2452	MIMO	20.32	20.50
802.11ax HE40	2422	Chain0	17.14	17.50
802.11ax HE40	2422	Chain1	20.14	20.50
802.11ax HE40	2422	MIMO	17.42	17.50
802.11ax HE40	2437	Chain0	17.48	17.50
802.11ax HE40	2437	Chain1	20.46	20.50
802.11ax HE40	2437	MIMO	17.30	17.50
802.11ax HE40	2452	Chain0	17.34	17.50
802.11ax HE40	2452	Chain1	20.33	20.50
802.11ax HE40	2452	MIMO	17.15	17.50
802.11ax HE40	2422	Chain0	17.20	17.50

802.11ax HE40	2422	Chain1	20.19	20.50
802.11ax HE40	2422	MIMO	17.32	17.50
802.11ax HE40	2437	Chain0	17.30	17.50
802.11ax HE40	2437	Chain1	20.32	20.50
802.11ax HE40	2437	MIMO	17.14	17.50
802.11ax HE40	2452	Chain0	20.14	20.50
802.11ax HE40	2452	Chain1	17.42	17.50
802.11ax HE40	2452	MIMO	17.48	17.50
802.11ax HE40	2422	Chain0	20.46	20.50
802.11ax HE40	2422	Chain1	17.30	17.50
802.11ax HE40	2422	MIMO	17.34	17.50
802.11ax HE40	2437	Chain0	20.33	20.50
802.11ax HE40	2437	Chain1	17.15	17.50
802.11ax HE40	2437	MIMO	17.20	17.50
802.11ax HE40	2452	Chain0	20.19	20.50
802.11ax HE40	2452	Chain1	17.32	17.50
802.11ax HE40	2452	MIMO	17.30	17.50
802.11ax HE40	2422	Chain0	20.32	20.50
802.11ax HE40	2422	Chain1	17.14	17.50
802.11ax HE40	2422	MIMO	20.14	20.50
802.11ax HE40	2437	Chain0	17.42	17.50
802.11ax HE40	2437	Chain1	17.48	17.50
802.11ax HE40	2437	MIMO	20.46	20.50
802.11ax HE40	2452	Chain0	17.30	17.50
802.11ax HE40	2452	Chain1	17.34	17.50
802.11ax HE40	2452	MIMO	20.33	20.50
802.11ax HE40	2422	Chain0	17.15	17.50
802.11ax HE40	2422	Chain1	17.20	17.50
802.11ax HE40	2422	MIMO	20.19	20.50
802.11ax HE40	2437	Chain0	17.32	17.50
802.11ax HE40	2437	Chain1	17.30	17.50
802.11ax HE40	2437	MIMO	20.32	20.50
802.11ax HE40	2452	Chain0	17.14	17.50
802.11ax HE40	2452	Chain1	20.14	20.50

802.11ax HE40	2452	MIMO	17.42	17.50
802.11ax HE40	2422	Chain0	17.48	17.50
802.11ax HE40	2422	Chain1	20.46	20.50
802.11ax HE40	2422	MIMO	17.30	17.50
802.11ax HE40	2437	Chain0	17.34	17.50
802.11ax HE40	2437	Chain1	20.33	20.50
802.11ax HE40	2437	MIMO	17.15	17.50
802.11ax HE40	2452	Chain0	17.20	17.50
802.11ax HE40	2452	Chain1	20.19	20.50
802.11ax HE40	2452	MIMO	17.32	17.50
802.11ax HE40	2422	Chain0	17.30	17.50
802.11ax HE40	2422	Chain1	20.32	20.50
802.11ax HE40	2422	MIMO	17.14	17.50
802.11ax HE40	2437	Chain0	20.14	20.50
802.11ax HE40	2437	Chain1	17.42	17.50
802.11ax HE40	2437	MIMO	17.48	17.50
802.11ax HE40	2452	Chain0	20.46	20.50
802.11ax HE40	2452	Chain1	17.30	17.50
802.11ax HE40	2452	MIMO	17.34	17.50

5G WIFI

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	TUNE UP (dBm)
802.11a	NA	5180	Chain0	17.67	18.0
802.11a	NA	5180	Chain1	17.59	18.0
802.11a	NA	5220	Chain0	17.71	18.0
802.11a	NA	5220	Chain1	17.88	18.0
802.11a	NA	5240	Chain0	17.66	18.0
802.11a	NA	5240	Chain1	17.29	17.5
802.11n HT20	NA	5180	Chain0	17.79	18.0
802.11n HT20	NA	5180	Chain1	17.65	18.0
802.11n HT20	NA	5180	MIMO	20.73	21.0

802.11n HT20	NA	5220	Chain0	17.69	18.0
802.11n HT20	NA	5220	Chain1	17.85	18.0
802.11n HT20	NA	5220	MIMO	20.78	21.0
802.11n HT20	NA	5240	Chain0	17.45	17.5
802.11n HT20	NA	5240	Chain1	17.17	17.5
802.11n HT20	NA	5240	MIMO	20.32	20.5
802.11ac VHT20	NA	5180	Chain0	17.56	18.0
802.11ac VHT20	NA	5180	Chain1	17.43	17.5
802.11ac VHT20	NA	5180	MIMO	20.51	21.0
802.11ac VHT20	NA	5220	Chain0	17.56	18.0
802.11ac VHT20	NA	5220	Chain1	17.72	18.0
802.11ac VHT20	NA	5220	MIMO	20.65	21.0
802.11ac VHT20	NA	5240	Chain0	17.26	17.5
802.11ac VHT20	NA	5240	Chain1	17.15	17.5
802.11ac VHT20	NA	5240	MIMO	20.22	20.5
802.11n HT40	NA	5190	Chain0	17.59	18.0
802.11n HT40	NA	5190	Chain1	17.41	17.5
802.11n HT40	NA	5190	MIMO	20.51	21.0
802.11n HT40	NA	5230	Chain0	17.67	18.0
802.11n HT40	NA	5230	Chain1	17.55	18.0
802.11n HT40	NA	5230	MIMO	20.62	21.0
802.11ac VHT40	NA	5190	Chain0	17.31	17.5
802.11ac VHT40	NA	5190	Chain1	17.75	18.0
802.11ac VHT40	NA	5190	MIMO	20.55	21.0
802.11ac VHT40	NA	5230	Chain0	17.44	17.5
802.11ac VHT40	NA	5230	Chain1	17.25	17.5
802.11ac VHT40	NA	5230	MIMO	20.36	20.5
802.11ac VHT80	NA	5210	Chain0	17.65	18.0
802.11ac VHT80	NA	5210	Chain1	17.09	17.5
802.11ac VHT80	NA	5210	MIMO	20.39	20.5

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power	TUNE UP (dBm)
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				output(dBm)	
802.11ax HE20	26T 0	5180	Chain0	17.43	17.5
802.11ax HE20	26T 0	5180	Chain1	17.85	18.0
802.11ax HE20	26T 0	5180	MIMO	20.66	21.0
802.11ax HE20	26T 0	5220	Chain0	17.92	18.0
802.11ax HE20	26T 0	5220	Chain1	17.73	18.0
802.11ax HE20	26T 0	5220	MIMO	20.84	21.0
802.11ax HE20	26T 0	5240	Chain0	17.08	17.5
802.11ax HE20	26T 0	5240	Chain1	17.33	17.5
802.11ax HE20	26T 0	5240	MIMO	20.22	20.5
802.11ax HE20	26T 4	5180	Chain0	17.47	17.5
802.11ax HE20	26T 4	5180	Chain1	17.49	17.5
802.11ax HE20	26T 4	5180	MIMO	20.49	20.5
802.11ax HE20	26T 4	5220	Chain0	17.42	17.5
802.11ax HE20	26T 4	5220	Chain1	17.44	17.5
802.11ax HE20	26T 4	5220	MIMO	20.44	20.5
802.11ax HE20	26T 4	5240	Chain0	16.84	17.0
802.11ax HE20	26T 4	5240	Chain1	16.83	17.0
802.11ax HE20	26T 4	5240	MIMO	19.85	20.0
802.11ax HE20	26T 8	5180	Chain0	17.85	18.0
802.11ax HE20	26T 8	5180	Chain1	17.84	18.0
802.11ax HE20	26T 8	5180	MIMO	20.86	21.0
802.11ax HE20	26T 8	5220	Chain0	17.61	18.0
802.11ax HE20	26T 8	5220	Chain1	17.58	18.0
802.11ax HE20	26T 8	5220	MIMO	20.61	21.0
802.11ax HE20	26T 8	5240	Chain0	17.00	17.0
802.11ax HE20	26T 8	5240	Chain1	17.08	17.5
802.11ax HE20	26T 8	5240	MIMO	20.05	20.5
802.11ax HE20	52T 37	5180	Chain0	17.63	18.0
802.11ax HE20	52T 37	5180	Chain1	17.70	18.0
802.11ax HE20	52T 37	5180	MIMO	20.68	21.0
802.11ax HE20	52T 37	5220	Chain0	17.59	18.0
802.11ax HE20	52T 37	5220	Chain1	17.65	18.0
802.11ax HE20	52T 37	5220	MIMO	20.63	21.0

802.11ax HE20	52T 37	5240	Chain0	17.27	17.5
802.11ax HE20	52T 37	5240	Chain1	17.32	17.5
802.11ax HE20	52T 37	5240	MIMO	20.31	20.5
802.11ax HE20	52T 39	5180	Chain0	17.50	17.5
802.11ax HE20	52T 39	5180	Chain1	17.55	18.0
802.11ax HE20	52T 39	5180	MIMO	20.54	21.0
802.11ax HE20	52T 39	5220	Chain0	17.21	17.5
802.11ax HE20	52T 39	5220	Chain1	17.22	17.5
802.11ax HE20	52T 39	5220	MIMO	20.23	20.5
802.11ax HE20	52T 39	5240	Chain0	17.22	17.5
802.11ax HE20	52T 39	5240	Chain1	17.23	17.5
802.11ax HE20	52T 39	5240	MIMO	20.24	20.5
802.11ax HE20	52T 40	5180	Chain0	17.52	18.0
802.11ax HE20	52T 40	5180	Chain1	17.58	18.0
802.11ax HE20	52T 40	5180	MIMO	20.56	21.0
802.11ax HE20	52T 40	5220	Chain0	17.39	17.5
802.11ax HE20	52T 40	5220	Chain1	17.41	17.5
802.11ax HE20	52T 40	5220	MIMO	20.41	20.5
802.11ax HE20	52T 40	5240	Chain0	17.44	17.5
802.11ax HE20	52T 40	5240	Chain1	17.42	17.5
802.11ax HE20	52T 40	5240	MIMO	20.44	20.5
802.11ax HE20	106T 53	5180	Chain0	17.54	18.0
802.11ax HE20	106T 53	5180	Chain1	17.60	18.0
802.11ax HE20	106T 53	5180	MIMO	20.58	21.0
802.11ax HE20	106T 53	5220	Chain0	17.84	18.0
802.11ax HE20	106T 53	5220	Chain1	17.83	18.0
802.11ax HE20	106T 53	5220	MIMO	20.85	21.0
802.11ax HE20	106T 53	5240	Chain0	17.25	17.5
802.11ax HE20	106T 53	5240	Chain1	17.24	17.5
802.11ax HE20	106T 53	5240	MIMO	20.26	20.5
802.11ax HE20	106T 54	5180	Chain0	17.81	18.0
802.11ax HE20	106T 54	5180	Chain1	17.89	18.0
802.11ax HE20	106T 54	5180	MIMO	20.86	21.0
802.11ax HE20	106T 54	5220	Chain0	17.32	17.5

802.11ax HE20	106T 54	5220	Chain1	17.31	17.5
802.11ax HE20	106T 54	5220	MIMO	20.33	20.5
802.11ax HE20	106T 54	5240	Chain0	17.27	17.5
802.11ax HE20	106T 54	5240	Chain1	17.32	17.5
802.11ax HE20	106T 54	5240	MIMO	20.31	20.5
802.11ax HE20	242T 61	5180	Chain0	17.74	18.0
802.11ax HE20	242T 61	5180	Chain1	17.80	18.0
802.11ax HE20	242T 61	5180	MIMO	20.78	21.0
802.11ax HE20	242T 61	5220	Chain0	17.63	18.0
802.11ax HE20	242T 61	5220	Chain1	17.68	18.0
802.11ax HE20	242T 61	5220	MIMO	20.67	21.0
802.11ax HE20	242T 61	5240	Chain0	17.01	17.5
802.11ax HE20	242T 61	5240	Chain1	17.03	17.5
802.11ax HE20	242T 61	5240	MIMO	20.03	20.5
802.11ax HE40	26T 0	5190	Chain0	17.64	18.0
802.11ax HE40	26T 0	5190	Chain1	17.66	18.0
802.11ax HE40	26T 0	5190	MIMO	20.66	21.0
802.11ax HE40	26T 0	5230	Chain0	17.85	18.0
802.11ax HE40	26T 0	5230	Chain1	18.20	18.5
802.11ax HE40	26T 0	5230	MIMO	21.04	21.5
802.11ax HE40	26T 10	5190	Chain0	17.85	18.0
802.11ax HE40	26T 10	5190	Chain1	17.91	18.0
802.11ax HE40	26T 10	5190	MIMO	20.89	21.0
802.11ax HE40	26T 10	5230	Chain0	17.46	17.5
802.11ax HE40	26T 10	5230	Chain1	17.51	18.0
802.11ax HE40	26T 10	5230	MIMO	20.50	20.5
802.11ax HE40	26T 17	5190	Chain0	17.84	18.0
802.11ax HE40	26T 17	5190	Chain1	17.88	18.0
802.11ax HE40	26T 17	5190	MIMO	20.87	21.0
802.11ax HE40	26T 17	5230	Chain0	17.40	17.5
802.11ax HE40	26T 17	5230	Chain1	17.39	17.5
802.11ax HE40	26T 17	5230	MIMO	20.41	20.5
802.11ax HE40	52T 37	5190	Chain0	17.56	18.0
802.11ax HE40	52T 37	5190	Chain1	17.57	18.0

802.11ax HE40	52T 37	5190	MIMO	20.58	21.0
802.11ax HE40	52T 37	5230	Chain0	17.84	18.0
802.11ax HE40	52T 37	5230	Chain1	17.95	18.0
802.11ax HE40	52T 37	5230	MIMO	20.91	21.0
802.11ax HE40	52T 41	5190	Chain0	17.64	18.0
802.11ax HE40	52T 41	5190	Chain1	17.65	18.0
802.11ax HE40	52T 41	5190	MIMO	20.66	21.0
802.11ax HE40	52T 41	5230	Chain0	17.23	17.5
802.11ax HE40	52T 41	5230	Chain1	17.30	17.5
802.11ax HE40	52T 41	5230	MIMO	20.28	20.5
802.11ax HE40	52T 44	5190	Chain0	17.69	18.0
802.11ax HE40	52T 44	5190	Chain1	17.68	18.0
802.11ax HE40	52T 44	5190	MIMO	20.70	21.0
802.11ax HE40	52T 44	5230	Chain0	17.15	17.5
802.11ax HE40	52T 44	5230	Chain1	17.14	17.5
802.11ax HE40	52T 44	5230	MIMO	20.16	20.5
802.11ax HE40	106T 53	5190	Chain0	17.55	18.0
802.11ax HE40	106T 53	5190	Chain1	17.57	18.0
802.11ax HE40	106T 53	5190	MIMO	20.57	21.0
802.11ax HE40	106T 53	5230	Chain0	17.84	18.0
802.11ax HE40	106T 53	5230	Chain1	17.78	18.0
802.11ax HE40	106T 53	5230	MIMO	20.82	21.0
802.11ax HE40	106T 55	5190	Chain0	17.48	17.5
802.11ax HE40	106T 55	5190	Chain1	17.56	18.0
802.11ax HE40	106T 55	5190	MIMO	20.53	21.0
802.11ax HE40	106T 55	5230	Chain0	17.03	17.5
802.11ax HE40	106T 55	5230	Chain1	17.08	17.5
802.11ax HE40	106T 55	5230	MIMO	20.07	20.5
802.11ax HE40	106T 56	5190	Chain0	17.41	17.5
802.11ax HE40	106T 56	5190	Chain1	17.53	18.0
802.11ax HE40	106T 56	5190	MIMO	20.48	20.5
802.11ax HE40	106T 56	5230	Chain0	17.50	17.5
802.11ax HE40	106T 56	5230	Chain1	17.49	17.5
802.11ax HE40	106T 56	5230	MIMO	20.51	21.0

802.11ax HE40	242T 61	5190	Chain0	17.88	18.0
802.11ax HE40	242T 61	5190	Chain1	17.98	18.0
802.11ax HE40	242T 61	5190	MIMO	20.94	21.0
802.11ax HE40	242T 61	5230	Chain0	17.85	18.0
802.11ax HE40	242T 61	5230	Chain1	17.85	18.0
802.11ax HE40	242T 61	5230	MIMO	20.86	21.0
802.11ax HE40	242T 62	5190	Chain0	17.71	18.0
802.11ax HE40	242T 62	5190	Chain1	17.74	18.0
802.11ax HE40	242T 62	5190	MIMO	20.74	21.0
802.11ax HE40	242T 62	5230	Chain0	17.17	17.5
802.11ax HE40	242T 62	5230	Chain1	17.58	18.0
802.11ax HE40	242T 62	5230	MIMO	20.39	20.5
802.11ax HE40	484T 65	5190	Chain0	17.45	17.5
802.11ax HE40	484T 65	5190	Chain1	17.52	18.0
802.11ax HE40	484T 65	5190	MIMO	20.50	20.5
802.11ax HE40	484T 65	5230	Chain0	17.37	17.5
802.11ax HE40	484T 65	5230	Chain1	17.35	17.5
802.11ax HE40	484T 65	5230	MIMO	20.37	20.5
802.11ax HE80	26T 0	5210	Chain0	17.32	17.5
802.11ax HE80	26T 0	5210	Chain1	17.79	18.0
802.11ax HE80	26T 0	5210	MIMO	20.57	21.0
802.11ax HE80	26T 18	5210	Chain0	17.85	18.0
802.11ax HE80	26T 18	5210	Chain1	17.81	18.0
802.11ax HE80	26T 18	5210	MIMO	20.84	21.0
802.11ax HE80	26T 36	5210	Chain0	17.33	17.5
802.11ax HE80	26T 36	5210	Chain1	17.32	17.5
802.11ax HE80	26T 36	5210	MIMO	20.34	20.5
802.11ax HE80	52T 37	5210	Chain0	17.67	18.0
802.11ax HE80	52T 37	5210	Chain1	17.72	18.0
802.11ax HE80	52T 37	5210	MIMO	20.71	21.0
802.11ax HE80	52T 45	5210	Chain0	17.51	18.0
802.11ax HE80	52T 45	5210	Chain1	17.57	18.0
802.11ax HE80	52T 45	5210	MIMO	20.55	21.0
802.11ax HE80	52T 52	5210	Chain0	17.12	17.5

802.11ax HE80	52T 52	5210	Chain1	17.70	18.0
802.11ax HE80	52T 52	5210	MIMO	20.43	20.5
802.11ax HE80	106T 53	5210	Chain0	17.56	18.0
802.11ax HE80	106T 53	5210	Chain1	17.55	18.0
802.11ax HE80	106T 53	5210	MIMO	20.57	21.0
802.11ax HE80	106T 57	5210	Chain0	17.68	18.0
802.11ax HE80	106T 57	5210	Chain1	17.74	18.0
802.11ax HE80	106T 57	5210	MIMO	20.72	21.0
802.11ax HE80	106T 60	5210	Chain0	17.43	17.5
802.11ax HE80	106T 60	5210	Chain1	17.44	17.5
802.11ax HE80	106T 60	5210	MIMO	20.45	20.5
802.11ax HE80	242T 61	5210	Chain0	17.41	17.5
802.11ax HE80	242T 61	5210	Chain1	17.45	17.5
802.11ax HE80	242T 61	5210	MIMO	20.44	20.5
802.11ax HE80	242T 63	5210	Chain0	17.40	17.5
802.11ax HE80	242T 63	5210	Chain1	17.42	17.5
802.11ax HE80	242T 63	5210	MIMO	20.42	20.5
802.11ax HE80	242T 64	5210	Chain0	17.53	18.0
802.11ax HE80	242T 64	5210	Chain1	17.55	18.0
802.11ax HE80	242T 64	5210	MIMO	20.55	21.0
802.11ax HE80	484T 65	5210	Chain0	17.87	18.0
802.11ax HE80	484T 65	5210	Chain1	17.92	18.0
802.11ax HE80	484T 65	5210	MIMO	20.91	21.0
802.11ax HE80	484T 66	5210	Chain0	17.19	17.5
802.11ax HE80	484T 66	5210	Chain1	17.19	17.5
802.11ax HE80	484T 66	5210	MIMO	20.20	20.5
802.11ax HE80	996T 67	5210	Chain0	17.17	17.5
802.11ax HE80	996T 67	5210	Chain1	17.17	17.5
802.11ax HE80	996T 67	5210	MIMO	20.18	20.5

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	TUNE UP (dBm)
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802.11a	NA	5260	Chain0	17.86	18.0
802.11a	NA	5260	Chain1	17.56	18.0
802.11a	NA	5280	Chain0	17.55	18.0
802.11a	NA	5280	Chain1	17.90	18.0
802.11a	NA	5320	Chain0	17.56	18.0
802.11a	NA	5320	Chain1	17.58	18.0
802.11n HT20	NA	5260	Chain0	17.99	18.0
802.11n HT20	NA	5260	Chain1	16.97	17.0
802.11n HT20	NA	5260	MIMO	20.52	21.0
802.11n HT20	NA	5280	Chain0	17.86	18.0
802.11n HT20	NA	5280	Chain1	17.83	18.0
802.11n HT20	NA	5280	MIMO	20.86	21.0
802.11n HT20	NA	5320	Chain0	17.14	17.5
802.11n HT20	NA	5320	Chain1	17.02	17.5
802.11n HT20	NA	5320	MIMO	20.09	20.5
802.11ac VHT20	NA	5260	Chain0	17.93	18.0
802.11ac VHT20	NA	5260	Chain1	17.57	18.0
802.11ac VHT20	NA	5260	MIMO	20.76	21.0
802.11ac VHT20	NA	5280	Chain0	17.78	18.0
802.11ac VHT20	NA	5280	Chain1	17.72	18.0
802.11ac VHT20	NA	5280	MIMO	20.76	21.0
802.11ac VHT20	NA	5320	Chain0	17.54	18.0
802.11ac VHT20	NA	5320	Chain1	17.53	18.0
802.11ac VHT20	NA	5320	MIMO	20.55	21.0
802.11n HT40	NA	5270	Chain0	17.72	18.0
802.11n HT40	NA	5270	Chain1	17.23	17.5
802.11n HT40	NA	5270	MIMO	20.49	20.5
802.11n HT40	NA	5310	Chain0	17.49	17.5
802.11n HT40	NA	5310	Chain1	17.06	17.5
802.11n HT40	NA	5310	MIMO	20.29	20.5
802.11ac VHT40	NA	5270	Chain0	17.84	18.0
802.11ac VHT40	NA	5270	Chain1	17.32	17.5
802.11ac VHT40	NA	5270	MIMO	20.60	21.0
802.11ac VHT40	NA	5310	Chain0	17.24	17.5

802.11ac VHT40	NA	5310	Chain1	17.13	17.5
802.11ac VHT40	NA	5310	MIMO	20.20	20.5
802.11ac VHT80	NA	5290	Chain0	17.37	17.5
802.11ac VHT80	NA	5290	Chain1	17.54	18.0
802.11ac VHT80	NA	5290	MIMO	20.47	20.5

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	TUNE UP (dBm)
802.11ax HE20	26T 0	5260	Chain0	17.73	18.0
802.11ax HE20	26T 0	5260	Chain1	17.27	17.5
802.11ax HE20	26T 0	5260	MIMO	20.52	21.0
802.11ax HE20	26T 0	5280	Chain0	17.99	18.0
802.11ax HE20	26T 0	5280	Chain1	17.47	17.5
802.11ax HE20	26T 0	5280	MIMO	20.75	21.0
802.11ax HE20	26T 0	5320	Chain0	17.66	18.0
802.11ax HE20	26T 0	5320	Chain1	17.45	17.5
802.11ax HE20	26T 0	5320	MIMO	20.57	21.0
802.11ax HE20	26T 4	5260	Chain0	17.65	18.0
802.11ax HE20	26T 4	5260	Chain1	17.75	18.0
802.11ax HE20	26T 4	5260	MIMO	20.71	21.0
802.11ax HE20	26T 4	5280	Chain0	17.80	18.0
802.11ax HE20	26T 4	5280	Chain1	17.84	18.0
802.11ax HE20	26T 4	5280	MIMO	20.83	21.0
802.11ax HE20	26T 4	5320	Chain0	17.54	18.0
802.11ax HE20	26T 4	5320	Chain1	17.64	18.0
802.11ax HE20	26T 4	5320	MIMO	20.60	21.0
802.11ax HE20	26T 8	5260	Chain0	17.53	18.0
802.11ax HE20	26T 8	5260	Chain1	17.54	18.0
802.11ax HE20	26T 8	5260	MIMO	20.55	21.0
802.11ax HE20	26T 8	5280	Chain0	17.88	18.0
802.11ax HE20	26T 8	5280	Chain1	17.94	18.0
802.11ax HE20	26T 8	5280	MIMO	20.92	21.0

802.11ax HE20	26T 8	5320	Chain0	17.37	17.5
802.11ax HE20	26T 8	5320	Chain1	17.40	17.5
802.11ax HE20	26T 8	5320	MIMO	20.40	20.5
802.11ax HE20	52T 37	5260	Chain0	17.46	17.5
802.11ax HE20	52T 37	5260	Chain1	18.23	18.5
802.11ax HE20	52T 37	5260	MIMO	20.87	21.0
802.11ax HE20	52T 37	5280	Chain0	17.86	18.0
802.11ax HE20	52T 37	5280	Chain1	17.91	18.0
802.11ax HE20	52T 37	5280	MIMO	20.90	21.0
802.11ax HE20	52T 37	5320	Chain0	17.82	18.0
802.11ax HE20	52T 37	5320	Chain1	17.89	18.0
802.11ax HE20	52T 37	5320	MIMO	20.87	21.0
802.11ax HE20	52T 39	5260	Chain0	17.70	18.0
802.11ax HE20	52T 39	5260	Chain1	17.75	18.0
802.11ax HE20	52T 39	5260	MIMO	20.74	21.0
802.11ax HE20	52T 39	5280	Chain0	17.80	18.0
802.11ax HE20	52T 39	5280	Chain1	17.80	18.0
802.11ax HE20	52T 39	5280	MIMO	20.81	21.0
802.11ax HE20	52T 39	5320	Chain0	17.09	17.5
802.11ax HE20	52T 39	5320	Chain1	17.04	17.5
802.11ax HE20	52T 39	5320	MIMO	20.08	20.5
802.11ax HE20	52T 40	5260	Chain0	17.83	18.0
802.11ax HE20	52T 40	5260	Chain1	17.86	18.0
802.11ax HE20	52T 40	5260	MIMO	20.86	21.0
802.11ax HE20	52T 40	5280	Chain0	17.72	18.0
802.11ax HE20	52T 40	5280	Chain1	17.75	18.0
802.11ax HE20	52T 40	5280	MIMO	20.75	21.0
802.11ax HE20	52T 40	5320	Chain0	17.54	18.0
802.11ax HE20	52T 40	5320	Chain1	17.56	18.0
802.11ax HE20	52T 40	5320	MIMO	20.56	21.0
802.11ax HE20	106T 53	5260	Chain0	17.05	17.5
802.11ax HE20	106T 53	5260	Chain1	17.63	18.0
802.11ax HE20	106T 53	5260	MIMO	20.36	20.5
802.11ax HE20	106T 53	5280	Chain0	17.82	18.0

802.11ax HE20	106T 53	5280	Chain1	17.87	18.0
802.11ax HE20	106T 53	5280	MIMO	20.86	21.0
802.11ax HE20	106T 53	5320	Chain0	17.21	17.5
802.11ax HE20	106T 53	5320	Chain1	17.21	17.5
802.11ax HE20	106T 53	5320	MIMO	20.22	20.5
802.11ax HE20	106T 54	5260	Chain0	17.51	18.0
802.11ax HE20	106T 54	5260	Chain1	17.59	18.0
802.11ax HE20	106T 54	5260	MIMO	20.56	21.0
802.11ax HE20	106T 54	5280	Chain0	17.44	17.5
802.11ax HE20	106T 54	5280	Chain1	17.56	18.0
802.11ax HE20	106T 54	5280	MIMO	20.51	21.0
802.11ax HE20	106T 54	5320	Chain0	17.30	17.5
802.11ax HE20	106T 54	5320	Chain1	17.33	17.5
802.11ax HE20	106T 54	5320	MIMO	20.33	20.5
802.11ax HE20	242T 61	5260	Chain0	17.36	17.5
802.11ax HE20	242T 61	5260	Chain1	17.40	17.5
802.11ax HE20	242T 61	5260	MIMO	20.39	20.5
802.11ax HE20	242T 61	5280	Chain0	17.88	18.0
802.11ax HE20	242T 61	5280	Chain1	17.99	18.0
802.11ax HE20	242T 61	5280	MIMO	20.95	21.0
802.11ax HE20	242T 61	5320	Chain0	17.26	17.5
802.11ax HE20	242T 61	5320	Chain1	17.30	17.5
802.11ax HE20	242T 61	5320	MIMO	20.29	20.5
802.11ax HE40	26T 0	5270	Chain0	17.68	18.0
802.11ax HE40	26T 0	5270	Chain1	17.20	17.5
802.11ax HE40	26T 0	5270	MIMO	20.46	20.5
802.11ax HE40	26T 0	5310	Chain0	17.76	18.0
802.11ax HE40	26T 0	5310	Chain1	17.37	17.5
802.11ax HE40	26T 0	5310	MIMO	20.58	21.0
802.11ax HE40	26T 10	5270	Chain0	17.74	18.0
802.11ax HE40	26T 10	5270	Chain1	17.78	18.0
802.11ax HE40	26T 10	5270	MIMO	20.77	21.0
802.11ax HE40	26T 10	5310	Chain0	17.23	17.5
802.11ax HE40	26T 10	5310	Chain1	17.19	17.5

802.11ax HE40	26T 10	5310	MIMO	20.22	20.5
802.11ax HE40	26T 17	5270	Chain0	17.68	18.0
802.11ax HE40	26T 17	5270	Chain1	17.75	18.0
802.11ax HE40	26T 17	5270	MIMO	20.73	21.0
802.11ax HE40	26T 17	5310	Chain0	17.20	17.5
802.11ax HE40	26T 17	5310	Chain1	17.21	17.5
802.11ax HE40	26T 17	5310	MIMO	20.22	20.5
802.11ax HE40	52T 37	5270	Chain0	17.10	17.5
802.11ax HE40	52T 37	5270	Chain1	17.16	17.5
802.11ax HE40	52T 37	5270	MIMO	20.14	20.5
802.11ax HE40	52T 37	5310	Chain0	17.68	18.0
802.11ax HE40	52T 37	5310	Chain1	17.76	18.0
802.11ax HE40	52T 37	5310	MIMO	20.73	21.0
802.11ax HE40	52T 41	5270	Chain0	17.41	17.5
802.11ax HE40	52T 41	5270	Chain1	17.45	17.5
802.11ax HE40	52T 41	5270	MIMO	20.44	20.5
802.11ax HE40	52T 41	5310	Chain0	17.21	17.5
802.11ax HE40	52T 41	5310	Chain1	17.23	17.5
802.11ax HE40	52T 41	5310	MIMO	20.23	20.5
802.11ax HE40	52T 44	5270	Chain0	17.81	18.0
802.11ax HE40	52T 44	5270	Chain1	17.88	18.0
802.11ax HE40	52T 44	5270	MIMO	20.86	21.0
802.11ax HE40	52T 44	5310	Chain0	17.22	17.5
802.11ax HE40	52T 44	5310	Chain1	17.23	17.5
802.11ax HE40	52T 44	5310	MIMO	20.24	20.5
802.11ax HE40	106T 53	5270	Chain0	17.55	18.0
802.11ax HE40	106T 53	5270	Chain1	17.56	18.0
802.11ax HE40	106T 53	5270	MIMO	20.57	21.0
802.11ax HE40	106T 53	5310	Chain0	17.71	18.0
802.11ax HE40	106T 53	5310	Chain1	17.72	18.0
802.11ax HE40	106T 53	5310	MIMO	20.73	21.0
802.11ax HE40	106T 55	5270	Chain0	17.82	18.0
802.11ax HE40	106T 55	5270	Chain1	17.85	18.0
802.11ax HE40	106T 55	5270	MIMO	20.85	21.0

802.11ax HE40	106T 55	5310	Chain0	17.23	17.5
802.11ax HE40	106T 55	5310	Chain1	17.26	17.5
802.11ax HE40	106T 55	5310	MIMO	20.26	20.5
802.11ax HE40	106T 56	5270	Chain0	17.94	18.0
802.11ax HE40	106T 56	5270	Chain1	17.91	18.0
802.11ax HE40	106T 56	5270	MIMO	20.94	21.0
802.11ax HE40	106T 56	5310	Chain0	17.20	17.5
802.11ax HE40	106T 56	5310	Chain1	17.23	17.5
802.11ax HE40	106T 56	5310	MIMO	20.23	20.5
802.11ax HE40	242T 61	5270	Chain0	17.57	18.0
802.11ax HE40	242T 61	5270	Chain1	17.59	18.0
802.11ax HE40	242T 61	5270	MIMO	20.59	21.0
802.11ax HE40	242T 61	5310	Chain0	17.74	18.0
802.11ax HE40	242T 61	5310	Chain1	17.79	18.0
802.11ax HE40	242T 61	5310	MIMO	20.78	21.0
802.11ax HE40	242T 62	5270	Chain0	17.51	18.0
802.11ax HE40	242T 62	5270	Chain1	17.53	18.0
802.11ax HE40	242T 62	5270	MIMO	20.53	21.0
802.11ax HE40	242T 62	5310	Chain0	17.46	17.5
802.11ax HE40	242T 62	5310	Chain1	17.44	17.5
802.11ax HE40	242T 62	5310	MIMO	20.46	20.5
802.11ax HE40	484T 65	5270	Chain0	17.09	17.5
802.11ax HE40	484T 65	5270	Chain1	17.12	17.5
802.11ax HE40	484T 65	5270	MIMO	20.12	20.5
802.11ax HE40	484T 65	5310	Chain0	17.41	17.5
802.11ax HE40	484T 65	5310	Chain1	17.44	17.5
802.11ax HE40	484T 65	5310	MIMO	20.44	20.5
802.11ax HE80	26T 0	5290	Chain0	17.71	18.0
802.11ax HE80	26T 0	5290	Chain1	17.48	17.5
802.11ax HE80	26T 0	5290	MIMO	20.61	21.0
802.11ax HE80	26T 18	5290	Chain0	17.49	17.5
802.11ax HE80	26T 18	5290	Chain1	17.67	18.0
802.11ax HE80	26T 18	5290	MIMO	20.59	21.0
802.11ax HE80	26T 36	5290	Chain0	17.18	17.5

802.11ax HE80	26T 36	5290	Chain1	17.30	17.5
802.11ax HE80	26T 36	5290	MIMO	20.25	20.5
802.11ax HE80	52T 37	5290	Chain0	17.58	18.0
802.11ax HE80	52T 37	5290	Chain1	17.68	18.0
802.11ax HE80	52T 37	5290	MIMO	20.64	21.0
802.11ax HE80	52T 45	5290	Chain0	17.87	18.0
802.11ax HE80	52T 45	5290	Chain1	17.97	18.0
802.11ax HE80	52T 45	5290	MIMO	20.93	21.0
802.11ax HE80	52T 52	5290	Chain0	17.56	18.0
802.11ax HE80	52T 52	5290	Chain1	17.55	18.0
802.11ax HE80	52T 52	5290	MIMO	20.57	21.0
802.11ax HE80	106T 53	5290	Chain0	17.08	17.5
802.11ax HE80	106T 53	5290	Chain1	17.11	17.5
802.11ax HE80	106T 53	5290	MIMO	20.11	20.5
802.11ax HE80	106T 57	5290	Chain0	17.67	18.0
802.11ax HE80	106T 57	5290	Chain1	17.76	18.0
802.11ax HE80	106T 57	5290	MIMO	20.73	21.0
802.11ax HE80	106T 60	5290	Chain0	17.28	17.5
802.11ax HE80	106T 60	5290	Chain1	17.30	17.5
802.11ax HE80	106T 60	5290	MIMO	20.30	20.5
802.11ax HE80	242T 61	5290	Chain0	17.61	18.0
802.11ax HE80	242T 61	5290	Chain1	17.74	18.0
802.11ax HE80	242T 61	5290	MIMO	20.69	21.0
802.11ax HE80	242T 63	5290	Chain0	17.54	18.0
802.11ax HE80	242T 63	5290	Chain1	17.60	18.0
802.11ax HE80	242T 63	5290	MIMO	20.58	21.0
802.11ax HE80	242T 64	5290	Chain0	17.02	17.5
802.11ax HE80	242T 64	5290	Chain1	17.57	18.0
802.11ax HE80	242T 64	5290	MIMO	20.31	20.5
802.11ax HE80	484T 65	5290	Chain0	17.61	18.0
802.11ax HE80	484T 65	5290	Chain1	17.65	18.0
802.11ax HE80	484T 65	5290	MIMO	20.64	21.0
802.11ax HE80	484T 66	5290	Chain0	17.36	17.5
802.11ax HE80	484T 66	5290	Chain1	17.40	17.5

802.11ax HE80	484T 66	5290	MIMO	20.39	20.5
802.11ax HE80	996T 67	5290	Chain0	17.71	18.0
802.11ax HE80	996T 67	5290	Chain1	17.78	18.0
802.11ax HE80	996T 67	5290	MIMO	20.76	21.0

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	TUNE UP (dBm)
802.11a	NA	5500	Chain0	17.81	18.0
802.11a	NA	5500	Chain1	17.58	18.0
802.11a	NA	5580	Chain0	17.57	18.0
802.11a	NA	5580	Chain1	17.48	17.5
802.11a	NA	5700	Chain0	17.68	18.0
802.11a	NA	5700	Chain1	17.81	18.0
802.11n HT20	NA	5500	Chain0	17.62	18.0
802.11n HT20	NA	5500	Chain1	17.66	18.0
802.11n HT20	NA	5500	MIMO	20.65	21.0
802.11n HT20	NA	5580	Chain0	17.94	18.0
802.11n HT20	NA	5580	Chain1	17.98	18.0
802.11n HT20	NA	5580	MIMO	20.97	21.0
802.11n HT20	NA	5700	Chain0	17.10	17.5
802.11n HT20	NA	5700	Chain1	17.85	18.0
802.11n HT20	NA	5700	MIMO	20.50	20.5
802.11ac VHT20	NA	5500	Chain0	17.60	18.0
802.11ac VHT20	NA	5500	Chain1	17.98	18.0
802.11ac VHT20	NA	5500	MIMO	20.80	21.0
802.11ac VHT20	NA	5580	Chain0	17.74	18.0
802.11ac VHT20	NA	5580	Chain1	17.27	17.5
802.11ac VHT20	NA	5580	MIMO	20.52	21.0
802.11ac VHT20	NA	5700	Chain0	17.07	17.5
802.11ac VHT20	NA	5700	Chain1	17.16	17.5
802.11ac VHT20	NA	5700	MIMO	20.13	20.5
802.11n HT40	NA	5510	Chain0	17.35	17.5

802.11n HT40	NA	5510	Chain1	17.96	18.0
802.11n HT40	NA	5510	MIMO	20.68	21.0
802.11n HT40	NA	5590	Chain0	17.38	17.5
802.11n HT40	NA	5590	Chain1	17.10	17.5
802.11n HT40	NA	5590	MIMO	20.25	20.5
802.11n HT40	NA	5670	Chain0	17.87	18.0
802.11n HT40	NA	5670	Chain1	17.41	17.5
802.11n HT40	NA	5670	MIMO	20.66	21.0
802.11ac VHT40	NA	5510	Chain0	17.42	17.5
802.11ac VHT40	NA	5510	Chain1	17.30	17.5
802.11ac VHT40	NA	5510	MIMO	20.37	20.5
802.11ac VHT40	NA	5590	Chain0	17.47	17.5
802.11ac VHT40	NA	5590	Chain1	17.48	17.5
802.11ac VHT40	NA	5590	MIMO	20.49	20.5
802.11ac VHT40	NA	5670	Chain0	17.47	17.5
802.11ac VHT40	NA	5670	Chain1	17.91	18.0
802.11ac VHT40	NA	5670	MIMO	20.71	21.0
802.11ac VHT80	NA	5530	Chain0	17.58	18.0
802.11ac VHT80	NA	5530	Chain1	17.74	18.0
802.11ac VHT80	NA	5530	MIMO	20.67	21.0
802.11ac VHT80	NA	5610	Chain0	17.48	17.5
802.11ac VHT80	NA	5610	Chain1	17.23	17.5
802.11ac VHT80	NA	5610	MIMO	20.37	20.5

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	TUNE UP (dBm)
802.11ax HE20	26T 0	5500	Chain0	17.43	17.5
802.11ax HE20	26T 0	5500	Chain1	17.86	18.0
802.11ax HE20	26T 0	5500	MIMO	20.66	21.0
802.11ax HE20	26T 0	5580	Chain0	17.31	17.5
802.11ax HE20	26T 0	5580	Chain1	17.59	18.0
802.11ax HE20	26T 0	5580	MIMO	20.46	20.5

802.11ax HE20	26T 0	5700	Chain0	17.22	17.5
802.11ax HE20	26T 0	5700	Chain1	17.53	18.0
802.11ax HE20	26T 0	5700	MIMO	20.39	20.5
802.11ax HE20	26T 4	5500	Chain0	17.55	18.0
802.11ax HE20	26T 4	5500	Chain1	17.57	18.0
802.11ax HE20	26T 4	5500	MIMO	20.57	21.0
802.11ax HE20	26T 4	5580	Chain0	17.83	18.0
802.11ax HE20	26T 4	5580	Chain1	17.83	18.0
802.11ax HE20	26T 4	5580	MIMO	20.84	21.0
802.11ax HE20	26T 4	5700	Chain0	17.65	18.0
802.11ax HE20	26T 4	5700	Chain1	17.65	18.0
802.11ax HE20	26T 4	5700	MIMO	20.66	21.0
802.11ax HE20	26T 8	5500	Chain0	17.80	18.0
802.11ax HE20	26T 8	5500	Chain1	17.84	18.0
802.11ax HE20	26T 8	5500	MIMO	20.83	21.0
802.11ax HE20	26T 8	5580	Chain0	17.76	18.0
802.11ax HE20	26T 8	5580	Chain1	17.83	18.0
802.11ax HE20	26T 8	5580	MIMO	20.81	21.0
802.11ax HE20	26T 8	5700	Chain0	17.69	18.0
802.11ax HE20	26T 8	5700	Chain1	17.68	18.0
802.11ax HE20	26T 8	5700	MIMO	20.70	21.0
802.11ax HE20	52T 37	5500	Chain0	17.58	18.0
802.11ax HE20	52T 37	5500	Chain1	17.73	18.0
802.11ax HE20	52T 37	5500	MIMO	20.67	21.0
802.11ax HE20	52T 37	5580	Chain0	17.42	17.5
802.11ax HE20	52T 37	5580	Chain1	17.51	18.0
802.11ax HE20	52T 37	5580	MIMO	20.48	20.5
802.11ax HE20	52T 37	5700	Chain0	17.92	18.0
802.11ax HE20	52T 37	5700	Chain1	17.91	18.0
802.11ax HE20	52T 37	5700	MIMO	20.93	21.0
802.11ax HE20	52T 39	5500	Chain0	17.98	18.0
802.11ax HE20	52T 39	5500	Chain1	17.97	18.0
802.11ax HE20	52T 39	5500	MIMO	20.99	21.0
802.11ax HE20	52T 39	5580	Chain0	17.62	18.0

802.11ax HE20	52T 39	5580	Chain1	17.76	18.0
802.11ax HE20	52T 39	5580	MIMO	20.70	21.0
802.11ax HE20	52T 39	5700	Chain0	17.45	17.5
802.11ax HE20	52T 39	5700	Chain1	17.48	17.5
802.11ax HE20	52T 39	5700	MIMO	20.48	20.5
802.11ax HE20	52T 40	5500	Chain0	17.49	17.5
802.11ax HE20	52T 40	5500	Chain1	17.54	18.0
802.11ax HE20	52T 40	5500	MIMO	20.53	21.0
802.11ax HE20	52T 40	5580	Chain0	17.25	17.5
802.11ax HE20	52T 40	5580	Chain1	17.32	17.5
802.11ax HE20	52T 40	5580	MIMO	20.30	20.5
802.11ax HE20	52T 40	5700	Chain0	17.14	17.5
802.11ax HE20	52T 40	5700	Chain1	17.17	17.5
802.11ax HE20	52T 40	5700	MIMO	20.17	20.5
802.11ax HE20	106T 53	5500	Chain0	17.91	18.0
802.11ax HE20	106T 53	5500	Chain1	17.37	17.5
802.11ax HE20	106T 53	5500	MIMO	20.66	21.0
802.11ax HE20	106T 53	5580	Chain0	17.82	18.0
802.11ax HE20	106T 53	5580	Chain1	17.87	18.0
802.11ax HE20	106T 53	5580	MIMO	20.86	21.0
802.11ax HE20	106T 53	5700	Chain0	17.61	18.0
802.11ax HE20	106T 53	5700	Chain1	17.60	18.0
802.11ax HE20	106T 53	5700	MIMO	20.62	21.0
802.11ax HE20	106T 54	5500	Chain0	17.66	18.0
802.11ax HE20	106T 54	5500	Chain1	17.73	18.0
802.11ax HE20	106T 54	5500	MIMO	20.71	21.0
802.11ax HE20	106T 54	5580	Chain0	17.92	18.0
802.11ax HE20	106T 54	5580	Chain1	17.96	18.0
802.11ax HE20	106T 54	5580	MIMO	20.95	21.0
802.11ax HE20	106T 54	5700	Chain0	17.80	18.0
802.11ax HE20	106T 54	5700	Chain1	17.80	18.0
802.11ax HE20	106T 54	5700	MIMO	20.81	21.0
802.11ax HE20	242T 61	5500	Chain0	17.63	18.0
802.11ax HE20	242T 61	5500	Chain1	17.65	18.0

802.11ax HE20	242T 61	5500	MIMO	20.65	21.0
802.11ax HE20	242T 61	5580	Chain0	17.86	18.0
802.11ax HE20	242T 61	5580	Chain1	17.88	18.0
802.11ax HE20	242T 61	5580	MIMO	20.88	21.0
802.11ax HE20	242T 61	5700	Chain0	17.64	18.0
802.11ax HE20	242T 61	5700	Chain1	17.72	18.0
802.11ax HE20	242T 61	5700	MIMO	20.69	21.0
802.11ax HE40	26T 0	5510	Chain0	17.67	18.0
802.11ax HE40	26T 0	5510	Chain1	17.79	18.0
802.11ax HE40	26T 0	5510	MIMO	20.74	21.0
802.11ax HE40	26T 0	5670	Chain0	17.21	17.5
802.11ax HE40	26T 0	5670	Chain1	17.24	17.5
802.11ax HE40	26T 0	5670	MIMO	20.24	20.5
802.11ax HE40	26T 10	5510	Chain0	17.70	18.0
802.11ax HE40	26T 10	5510	Chain1	17.81	18.0
802.11ax HE40	26T 10	5510	MIMO	20.77	21.0
802.11ax HE40	26T 10	5670	Chain0	17.67	18.0
802.11ax HE40	26T 10	5670	Chain1	17.64	18.0
802.11ax HE40	26T 10	5670	MIMO	20.67	21.0
802.11ax HE40	26T 17	5510	Chain0	17.47	17.5
802.11ax HE40	26T 17	5510	Chain1	17.62	18.0
802.11ax HE40	26T 17	5510	MIMO	20.56	21.0
802.11ax HE40	26T 17	5670	Chain0	17.10	17.5
802.11ax HE40	26T 17	5670	Chain1	17.12	17.5
802.11ax HE40	26T 17	5670	MIMO	20.12	20.5
802.11ax HE40	52T 37	5510	Chain0	17.97	18.0
802.11ax HE40	52T 37	5510	Chain1	17.23	17.5
802.11ax HE40	52T 37	5510	MIMO	20.63	21.0
802.11ax HE40	52T 37	5670	Chain0	17.30	17.5
802.11ax HE40	52T 37	5670	Chain1	17.32	17.5
802.11ax HE40	52T 37	5670	MIMO	20.32	20.5
802.11ax HE40	52T 41	5510	Chain0	17.75	18.0
802.11ax HE40	52T 41	5510	Chain1	17.93	18.0
802.11ax HE40	52T 41	5510	MIMO	20.85	21.0

802.11ax HE40	52T 41	5670	Chain0	17.60	18.0
802.11ax HE40	52T 41	5670	Chain1	17.59	18.0
802.11ax HE40	52T 41	5670	MIMO	20.61	21.0
802.11ax HE40	52T 44	5510	Chain0	17.67	18.0
802.11ax HE40	52T 44	5510	Chain1	17.75	18.0
802.11ax HE40	52T 44	5510	MIMO	20.72	21.0
802.11ax HE40	52T 44	5670	Chain0	17.09	17.5
802.11ax HE40	52T 44	5670	Chain1	17.15	17.5
802.11ax HE40	52T 44	5670	MIMO	20.13	20.5
802.11ax HE40	106T 53	5510	Chain0	17.25	17.5
802.11ax HE40	106T 53	5510	Chain1	17.44	17.5
802.11ax HE40	106T 53	5510	MIMO	20.36	20.5
802.11ax HE40	106T 53	5670	Chain0	17.24	17.5
802.11ax HE40	106T 53	5670	Chain1	17.34	17.5
802.11ax HE40	106T 53	5670	MIMO	20.30	20.5
802.11ax HE40	106T 55	5510	Chain0	17.78	18.0
802.11ax HE40	106T 55	5510	Chain1	17.89	18.0
802.11ax HE40	106T 55	5510	MIMO	20.85	21.0
802.11ax HE40	106T 55	5670	Chain0	17.64	18.0
802.11ax HE40	106T 55	5670	Chain1	17.63	18.0
802.11ax HE40	106T 55	5670	MIMO	20.65	21.0
802.11ax HE40	106T 56	5510	Chain0	17.59	18.0
802.11ax HE40	106T 56	5510	Chain1	17.65	18.0
802.11ax HE40	106T 56	5510	MIMO	20.63	21.0
802.11ax HE40	106T 56	5670	Chain0	17.32	17.5
802.11ax HE40	106T 56	5670	Chain1	17.30	17.5
802.11ax HE40	106T 56	5670	MIMO	20.32	20.5
802.11ax HE40	242T 61	5510	Chain0	17.70	18.0
802.11ax HE40	242T 61	5510	Chain1	17.76	18.0
802.11ax HE40	242T 61	5510	MIMO	20.74	21.0
802.11ax HE40	242T 61	5670	Chain0	17.72	18.0
802.11ax HE40	242T 61	5670	Chain1	17.77	18.0
802.11ax HE40	242T 61	5670	MIMO	20.76	21.0
802.11ax HE40	242T 62	5510	Chain0	17.95	18.0

802.11ax HE40	242T 62	5510	Chain1	17.44	17.5
802.11ax HE40	242T 62	5510	MIMO	20.71	21.0
802.11ax HE40	242T 62	5670	Chain0	17.58	18.0
802.11ax HE40	242T 62	5670	Chain1	17.55	18.0
802.11ax HE40	242T 62	5670	MIMO	20.58	21.0
802.11ax HE40	484T 65	5510	Chain0	17.64	18.0
802.11ax HE40	484T 65	5510	Chain1	17.77	18.0
802.11ax HE40	484T 65	5510	MIMO	20.72	21.0
802.11ax HE40	484T 65	5670	Chain0	17.48	17.5
802.11ax HE40	484T 65	5670	Chain1	17.49	17.5
802.11ax HE40	484T 65	5670	MIMO	20.50	20.5
802.11ax HE80	26T 0	5530	Chain0	17.83	18.0
802.11ax HE80	26T 0	5530	Chain1	17.32	17.5
802.11ax HE80	26T 0	5530	MIMO	20.59	21.0
802.11ax HE80	26T 0	5610	Chain0	17.70	18.0
802.11ax HE80	26T 0	5610	Chain1	17.81	18.0
802.11ax HE80	26T 0	5610	MIMO	20.77	21.0
802.11ax HE80	26T 18	5530	Chain0	17.48	17.5
802.11ax HE80	26T 18	5530	Chain1	17.58	18.0
802.11ax HE80	26T 18	5530	MIMO	20.54	21.0
802.11ax HE80	26T 18	5610	Chain0	17.06	17.5
802.11ax HE80	26T 18	5610	Chain1	17.08	17.5
802.11ax HE80	26T 18	5610	MIMO	20.08	20.5
802.11ax HE80	26T 36	5530	Chain0	17.77	18.0
802.11ax HE80	26T 36	5530	Chain1	17.85	18.0
802.11ax HE80	26T 36	5530	MIMO	20.82	21.0
802.11ax HE80	26T 36	5610	Chain0	17.57	18.0
802.11ax HE80	26T 36	5610	Chain1	17.55	18.0
802.11ax HE80	26T 36	5610	MIMO	20.57	21.0
802.11ax HE80	52T 37	5530	Chain0	17.59	18.0
802.11ax HE80	52T 37	5530	Chain1	17.70	18.0
802.11ax HE80	52T 37	5530	MIMO	20.66	21.0
802.11ax HE80	52T 37	5610	Chain0	17.99	18.0
802.11ax HE80	52T 37	5610	Chain1	17.45	17.5

802.11ax HE80	52T 37	5610	MIMO	20.74	21.0
802.11ax HE80	52T 45	5530	Chain0	17.73	18.0
802.11ax HE80	52T 45	5530	Chain1	17.81	18.0
802.11ax HE80	52T 45	5530	MIMO	20.78	21.0
802.11ax HE80	52T 45	5610	Chain0	17.33	17.5
802.11ax HE80	52T 45	5610	Chain1	17.41	17.5
802.11ax HE80	52T 45	5610	MIMO	20.38	20.5
802.11ax HE80	52T 52	5530	Chain0	17.53	18.0
802.11ax HE80	52T 52	5530	Chain1	17.68	18.0
802.11ax HE80	52T 52	5530	MIMO	20.62	21.0
802.11ax HE80	52T 52	5610	Chain0	17.28	17.5
802.11ax HE80	52T 52	5610	Chain1	17.36	17.5
802.11ax HE80	52T 52	5610	MIMO	20.33	20.5
802.11ax HE80	106T 53	5530	Chain0	17.52	18.0
802.11ax HE80	106T 53	5530	Chain1	17.60	18.0
802.11ax HE80	106T 53	5530	MIMO	20.57	21.0
802.11ax HE80	106T 53	5610	Chain0	17.45	17.5
802.11ax HE80	106T 53	5610	Chain1	17.49	17.5
802.11ax HE80	106T 53	5610	MIMO	20.48	20.5
802.11ax HE80	106T 57	5530	Chain0	17.58	18.0
802.11ax HE80	106T 57	5530	Chain1	17.60	18.0
802.11ax HE80	106T 57	5530	MIMO	20.60	21.0
802.11ax HE80	106T 57	5610	Chain0	17.56	18.0
802.11ax HE80	106T 57	5610	Chain1	17.68	18.0
802.11ax HE80	106T 57	5610	MIMO	20.63	21.0
802.11ax HE80	106T 60	5530	Chain0	17.93	18.0
802.11ax HE80	106T 60	5530	Chain1	17.33	17.5
802.11ax HE80	106T 60	5530	MIMO	20.65	21.0
802.11ax HE80	106T 60	5610	Chain0	17.49	17.5
802.11ax HE80	106T 60	5610	Chain1	17.57	18.0
802.11ax HE80	106T 60	5610	MIMO	20.54	21.0
802.11ax HE80	242T 61	5530	Chain0	17.28	17.5
802.11ax HE80	242T 61	5530	Chain1	17.44	17.5
802.11ax HE80	242T 61	5530	MIMO	20.37	20.5

802.11ax HE80	242T 61	5610	Chain0	17.60	18.0
802.11ax HE80	242T 61	5610	Chain1	17.64	18.0
802.11ax HE80	242T 61	5610	MIMO	20.63	21.0
802.11ax HE80	242T 63	5530	Chain0	17.51	18.0
802.11ax HE80	242T 63	5530	Chain1	17.58	18.0
802.11ax HE80	242T 63	5530	MIMO	20.56	21.0
802.11ax HE80	242T 63	5610	Chain0	17.05	17.5
802.11ax HE80	242T 63	5610	Chain1	17.06	17.5
802.11ax HE80	242T 63	5610	MIMO	20.07	20.5
802.11ax HE80	242T 64	5530	Chain0	17.53	18.0
802.11ax HE80	242T 64	5530	Chain1	17.59	18.0
802.11ax HE80	242T 64	5530	MIMO	20.57	21.0
802.11ax HE80	242T 64	5610	Chain0	17.14	17.5
802.11ax HE80	242T 64	5610	Chain1	17.14	17.5
802.11ax HE80	242T 64	5610	MIMO	20.15	20.5
802.11ax HE80	484T 65	5530	Chain0	17.57	18.0
802.11ax HE80	484T 65	5530	Chain1	17.72	18.0
802.11ax HE80	484T 65	5530	MIMO	20.66	21.0
802.11ax HE80	484T 65	5610	Chain0	17.22	17.5
802.11ax HE80	484T 65	5610	Chain1	17.25	17.5
802.11ax HE80	484T 65	5610	MIMO	20.25	20.5
802.11ax HE80	484T 66	5530	Chain0	17.59	18.0
802.11ax HE80	484T 66	5530	Chain1	17.67	18.0
802.11ax HE80	484T 66	5530	MIMO	20.64	21.0
802.11ax HE80	484T 66	5610	Chain0	17.64	18.0
802.11ax HE80	484T 66	5610	Chain1	17.70	18.0
802.11ax HE80	484T 66	5610	MIMO	20.68	21.0
802.11ax HE80	996T 67	5530	Chain0	17.77	18.0
802.11ax HE80	996T 67	5530	Chain1	17.97	18.0
802.11ax HE80	996T 67	5530	MIMO	20.88	21.0
802.11ax HE80	996T 67	5610	Chain0	17.05	17.5
802.11ax HE80	996T 67	5610	Chain1	17.61	18.0
802.11ax HE80	996T 67	5610	MIMO	20.35	20.5

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	TUNE UP (dBm)
802.11a	NA	5745	Chain0	17.23	17.5
802.11a	NA	5745	Chain1	17.85	18.0
802.11a	NA	5785	Chain0	17.70	18.0
802.11a	NA	5785	Chain1	17.69	18.0
802.11a	NA	5825	Chain0	17.26	17.5
802.11a	NA	5825	Chain1	17.86	18.0
802.11n HT20	NA	5745	Chain0	17.71	18.0
802.11n HT20	NA	5745	Chain1	17.76	18.0
802.11n HT20	NA	5745	MIMO	20.75	21.0
802.11n HT20	NA	5785	Chain0	17.26	17.5
802.11n HT20	NA	5785	Chain1	17.69	18.0
802.11n HT20	NA	5785	MIMO	20.49	20.5
802.11n HT20	NA	5825	Chain0	17.75	18.0
802.11n HT20	NA	5825	Chain1	17.87	18.0
802.11n HT20	NA	5825	MIMO	20.82	21.0
802.11ac VHT20	NA	5745	Chain0	17.73	18.0
802.11ac VHT20	NA	5745	Chain1	17.72	18.0
802.11ac VHT20	NA	5745	MIMO	20.74	21.0
802.11ac VHT20	NA	5785	Chain0	17.27	17.5
802.11ac VHT20	NA	5785	Chain1	17.62	18.0
802.11ac VHT20	NA	5785	MIMO	20.46	20.5
802.11ac VHT20	NA	5825	Chain0	17.66	18.0
802.11ac VHT20	NA	5825	Chain1	17.15	17.5
802.11ac VHT20	NA	5825	MIMO	20.42	20.5
802.11n HT40	NA	5755	Chain0	17.99	18.0
802.11n HT40	NA	5755	Chain1	17.81	18.0
802.11n HT40	NA	5755	MIMO	20.91	21.0
802.11n HT40	NA	5795	Chain0	17.69	18.0
802.11n HT40	NA	5795	Chain1	17.99	18.0
802.11n HT40	NA	5795	MIMO	20.85	21.0

802.11ac VHT40	NA	5755	Chain0	17.78	18.0
802.11ac VHT40	NA	5755	Chain1	17.63	18.0
802.11ac VHT40	NA	5755	MIMO	20.72	21.0
802.11ac VHT40	NA	5795	Chain0	17.73	18.0
802.11ac VHT40	NA	5795	Chain1	17.57	18.0
802.11ac VHT40	NA	5795	MIMO	20.66	21.0
802.11ac VHT80	NA	5775	Chain0	17.52	18.0
802.11ac VHT80	NA	5775	Chain1	17.85	18.0
802.11ac VHT80	NA	5775	MIMO	20.70	21.0

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	TUNE UP (dBm)
802.11ax HE20	26T 0	5745	Chain0	17.66	18.0
802.11ax HE20	26T 0	5745	Chain1	17.76	18.0
802.11ax HE20	26T 0	5745	MIMO	20.72	21.0
802.11ax HE20	26T 0	5785	Chain0	17.28	17.5
802.11ax HE20	26T 0	5785	Chain1	17.34	17.5
802.11ax HE20	26T 0	5785	MIMO	20.32	20.5
802.11ax HE20	26T 0	5825	Chain0	17.72	18.0
802.11ax HE20	26T 0	5825	Chain1	17.69	18.0
802.11ax HE20	26T 0	5825	MIMO	20.72	21.0
802.11ax HE20	26T 4	5745	Chain0	17.85	18.0
802.11ax HE20	26T 4	5745	Chain1	17.88	18.0
802.11ax HE20	26T 4	5745	MIMO	20.88	21.0
802.11ax HE20	26T 4	5785	Chain0	17.34	17.5
802.11ax HE20	26T 4	5785	Chain1	17.37	17.5
802.11ax HE20	26T 4	5785	MIMO	20.37	20.5
802.11ax HE20	26T 4	5825	Chain0	17.65	18.0
802.11ax HE20	26T 4	5825	Chain1	17.68	18.0
802.11ax HE20	26T 4	5825	MIMO	20.68	21.0
802.11ax HE20	26T 8	5745	Chain0	17.33	17.5
802.11ax HE20	26T 8	5745	Chain1	17.31	17.5

802.11ax HE20	26T 8	5745	MIMO	20.33	20.5
802.11ax HE20	26T 8	5785	Chain0	17.13	17.5
802.11ax HE20	26T 8	5785	Chain1	17.12	17.5
802.11ax HE20	26T 8	5785	MIMO	20.14	20.5
802.11ax HE20	26T 8	5825	Chain0	17.01	17.5
802.11ax HE20	26T 8	5825	Chain1	17.57	18.0
802.11ax HE20	26T 8	5825	MIMO	20.31	20.5
802.11ax HE20	52T 37	5745	Chain0	17.87	18.0
802.11ax HE20	52T 37	5745	Chain1	17.98	18.0
802.11ax HE20	52T 37	5745	MIMO	20.94	21.0
802.11ax HE20	52T 37	5785	Chain0	17.57	18.0
802.11ax HE20	52T 37	5785	Chain1	17.61	18.0
802.11ax HE20	52T 37	5785	MIMO	20.60	21.0
802.11ax HE20	52T 37	5825	Chain0	17.97	18.0
802.11ax HE20	52T 37	5825	Chain1	17.95	18.0
802.11ax HE20	52T 37	5825	MIMO	20.97	21.0
802.11ax HE20	52T 39	5745	Chain0	17.56	18.0
802.11ax HE20	52T 39	5745	Chain1	17.63	18.0
802.11ax HE20	52T 39	5745	MIMO	20.61	21.0
802.11ax HE20	52T 39	5785	Chain0	17.23	17.5
802.11ax HE20	52T 39	5785	Chain1	17.26	17.5
802.11ax HE20	52T 39	5785	MIMO	20.26	20.5
802.11ax HE20	52T 39	5825	Chain0	17.31	17.5
802.11ax HE20	52T 39	5825	Chain1	17.32	17.5
802.11ax HE20	52T 39	5825	MIMO	20.33	20.5
802.11ax HE20	52T 40	5745	Chain0	17.51	18.0
802.11ax HE20	52T 40	5745	Chain1	17.53	18.0
802.11ax HE20	52T 40	5745	MIMO	20.53	21.0
802.11ax HE20	52T 40	5785	Chain0	17.30	17.5
802.11ax HE20	52T 40	5785	Chain1	17.34	17.5
802.11ax HE20	52T 40	5785	MIMO	20.33	20.5
802.11ax HE20	52T 40	5825	Chain0	17.16	17.5
802.11ax HE20	52T 40	5825	Chain1	17.18	17.5
802.11ax HE20	52T 40	5825	MIMO	20.18	20.5

802.11ax HE20	106T 53	5745	Chain0	17.23	17.5
802.11ax HE20	106T 53	5745	Chain1	17.29	17.5
802.11ax HE20	106T 53	5745	MIMO	20.27	20.5
802.11ax HE20	106T 53	5785	Chain0	17.81	18.0
802.11ax HE20	106T 53	5785	Chain1	17.87	18.0
802.11ax HE20	106T 53	5785	MIMO	20.85	21.0
802.11ax HE20	106T 53	5825	Chain0	17.69	18.0
802.11ax HE20	106T 53	5825	Chain1	17.74	18.0
802.11ax HE20	106T 53	5825	MIMO	20.73	21.0
802.11ax HE20	106T 54	5745	Chain0	17.82	18.0
802.11ax HE20	106T 54	5745	Chain1	17.81	18.0
802.11ax HE20	106T 54	5745	MIMO	20.83	21.0
802.11ax HE20	106T 54	5785	Chain0	17.46	17.5
802.11ax HE20	106T 54	5785	Chain1	17.45	17.5
802.11ax HE20	106T 54	5785	MIMO	20.47	20.5
802.11ax HE20	106T 54	5825	Chain0	17.51	18.0
802.11ax HE20	106T 54	5825	Chain1	17.55	18.0
802.11ax HE20	106T 54	5825	MIMO	20.54	21.0
802.11ax HE20	242T 61	5745	Chain0	17.80	18.0
802.11ax HE20	242T 61	5745	Chain1	17.87	18.0
802.11ax HE20	242T 61	5745	MIMO	20.85	21.0
802.11ax HE20	242T 61	5785	Chain0	17.35	17.5
802.11ax HE20	242T 61	5785	Chain1	17.44	17.5
802.11ax HE20	242T 61	5785	MIMO	20.41	20.5
802.11ax HE20	242T 61	5825	Chain0	17.67	18.0
802.11ax HE20	242T 61	5825	Chain1	17.69	18.0
802.11ax HE20	242T 61	5825	MIMO	20.69	21.0
802.11ax HE40	26T 0	5755	Chain0	17.91	18.0
802.11ax HE40	26T 0	5755	Chain1	17.99	18.0
802.11ax HE40	26T 0	5755	MIMO	20.96	21.0
802.11ax HE40	26T 0	5795	Chain0	17.61	18.0
802.11ax HE40	26T 0	5795	Chain1	17.64	18.0
802.11ax HE40	26T 0	5795	MIMO	20.64	21.0
802.11ax HE40	26T 10	5755	Chain0	17.65	18.0

802.11ax HE40	26T 10	5755	Chain1	17.73	18.0
802.11ax HE40	26T 10	5755	MIMO	20.70	21.0
802.11ax HE40	26T 10	5795	Chain0	17.74	18.0
802.11ax HE40	26T 10	5795	Chain1	17.73	18.0
802.11ax HE40	26T 10	5795	MIMO	20.75	21.0
802.11ax HE40	26T 17	5755	Chain0	17.09	17.5
802.11ax HE40	26T 17	5755	Chain1	17.11	17.5
802.11ax HE40	26T 17	5755	MIMO	20.11	20.5
802.11ax HE40	26T 17	5795	Chain0	17.57	18.0
802.11ax HE40	26T 17	5795	Chain1	17.51	18.0
802.11ax HE40	26T 17	5795	MIMO	20.55	21.0
802.11ax HE40	52T 37	5755	Chain0	17.81	18.0
802.11ax HE40	52T 37	5755	Chain1	17.90	18.0
802.11ax HE40	52T 37	5755	MIMO	20.87	21.0
802.11ax HE40	52T 37	5795	Chain0	17.42	17.5
802.11ax HE40	52T 37	5795	Chain1	17.43	17.5
802.11ax HE40	52T 37	5795	MIMO	20.44	20.5
802.11ax HE40	52T 41	5755	Chain0	17.92	18.0
802.11ax HE40	52T 41	5755	Chain1	17.97	18.0
802.11ax HE40	52T 41	5755	MIMO	20.96	21.0
802.11ax HE40	52T 41	5795	Chain0	17.93	18.0
802.11ax HE40	52T 41	5795	Chain1	17.93	18.0
802.11ax HE40	52T 41	5795	MIMO	20.94	21.0
802.11ax HE40	52T 44	5755	Chain0	17.45	17.5
802.11ax HE40	52T 44	5755	Chain1	17.44	17.5
802.11ax HE40	52T 44	5755	MIMO	20.46	20.5
802.11ax HE40	52T 44	5795	Chain0	17.84	18.0
802.11ax HE40	52T 44	5795	Chain1	17.82	18.0
802.11ax HE40	52T 44	5795	MIMO	20.84	21.0
802.11ax HE40	106T 53	5755	Chain0	17.67	18.0
802.11ax HE40	106T 53	5755	Chain1	17.73	18.0
802.11ax HE40	106T 53	5755	MIMO	20.71	21.0
802.11ax HE40	106T 53	5795	Chain0	17.21	17.5
802.11ax HE40	106T 53	5795	Chain1	17.25	17.5

802.11ax HE40	106T 53	5795	MIMO	20.24	20.5
802.11ax HE40	106T 55	5755	Chain0	17.64	18.0
802.11ax HE40	106T 55	5755	Chain1	17.68	18.0
802.11ax HE40	106T 55	5755	MIMO	20.67	21.0
802.11ax HE40	106T 55	5795	Chain0	17.52	18.0
802.11ax HE40	106T 55	5795	Chain1	17.62	18.0
802.11ax HE40	106T 55	5795	MIMO	20.58	21.0
802.11ax HE40	106T 56	5755	Chain0	17.28	17.5
802.11ax HE40	106T 56	5755	Chain1	17.28	17.5
802.11ax HE40	106T 56	5755	MIMO	20.29	20.5
802.11ax HE40	106T 56	5795	Chain0	17.72	18.0
802.11ax HE40	106T 56	5795	Chain1	17.73	18.0
802.11ax HE40	106T 56	5795	MIMO	20.74	21.0
802.11ax HE40	242T 61	5755	Chain0	17.84	18.0
802.11ax HE40	242T 61	5755	Chain1	17.89	18.0
802.11ax HE40	242T 61	5755	MIMO	20.88	21.0
802.11ax HE40	242T 61	5795	Chain0	17.51	18.0
802.11ax HE40	242T 61	5795	Chain1	17.55	18.0
802.11ax HE40	242T 61	5795	MIMO	20.54	21.0
802.11ax HE40	242T 62	5755	Chain0	17.55	18.0
802.11ax HE40	242T 62	5755	Chain1	17.56	18.0
802.11ax HE40	242T 62	5755	MIMO	20.57	21.0
802.11ax HE40	242T 62	5795	Chain0	17.89	18.0
802.11ax HE40	242T 62	5795	Chain1	17.90	18.0
802.11ax HE40	242T 62	5795	MIMO	20.91	21.0
802.11ax HE40	484T 65	5755	Chain0	17.54	18.0
802.11ax HE40	484T 65	5755	Chain1	17.55	18.0
802.11ax HE40	484T 65	5755	MIMO	20.56	21.0
802.11ax HE40	484T 65	5795	Chain0	17.46	17.5
802.11ax HE40	484T 65	5795	Chain1	17.48	17.5
802.11ax HE40	484T 65	5795	MIMO	20.48	20.5
802.11ax HE80	26T 0	5775	Chain0	17.68	18.0
802.11ax HE80	26T 0	5775	Chain1	17.67	18.0
802.11ax HE80	26T 0	5775	MIMO	20.69	21.0

802.11ax HE80	26T 18	5775	Chain0	17.18	17.5
802.11ax HE80	26T 18	5775	Chain1	17.25	17.5
802.11ax HE80	26T 18	5775	MIMO	20.23	20.5
802.11ax HE80	26T 36	5775	Chain0	17.54	18.0
802.11ax HE80	26T 36	5775	Chain1	17.62	18.0
802.11ax HE80	26T 36	5775	MIMO	20.59	21.0
802.11ax HE80	52T 37	5775	Chain0	17.95	18.0
802.11ax HE80	52T 37	5775	Chain1	17.99	18.0
802.11ax HE80	52T 37	5775	MIMO	20.98	21.0
802.11ax HE80	52T 45	5775	Chain0	17.46	17.5
802.11ax HE80	52T 45	5775	Chain1	17.54	18.0
802.11ax HE80	52T 45	5775	MIMO	20.51	21.0
802.11ax HE80	52T 52	5775	Chain0	17.87	18.0
802.11ax HE80	52T 52	5775	Chain1	17.89	18.0
802.11ax HE80	52T 52	5775	MIMO	20.89	21.0
802.11ax HE80	106T 53	5775	Chain0	17.65	18.0
802.11ax HE80	106T 53	5775	Chain1	17.81	18.0
802.11ax HE80	106T 53	5775	MIMO	20.74	21.0
802.11ax HE80	106T 57	5775	Chain0	17.29	17.5
802.11ax HE80	106T 57	5775	Chain1	17.27	17.5
802.11ax HE80	106T 57	5775	MIMO	20.29	20.5
802.11ax HE80	106T 60	5775	Chain0	17.72	18.0
802.11ax HE80	106T 60	5775	Chain1	17.73	18.0
802.11ax HE80	106T 60	5775	MIMO	20.74	21.0
802.11ax HE80	242T 61	5775	Chain0	17.62	18.0
802.11ax HE80	242T 61	5775	Chain1	17.64	18.0
802.11ax HE80	242T 61	5775	MIMO	20.64	21.0
802.11ax HE80	242T 63	5775	Chain0	17.29	17.5
802.11ax HE80	242T 63	5775	Chain1	17.34	17.5
802.11ax HE80	242T 63	5775	MIMO	20.33	20.5
802.11ax HE80	242T 64	5775	Chain0	17.42	17.5
802.11ax HE80	242T 64	5775	Chain1	17.48	17.5
802.11ax HE80	242T 64	5775	MIMO	20.46	20.5
802.11ax HE80	484T 65	5775	Chain0	17.95	18.0

802.11ax HE80	484T 65	5775	Chain1	17.48	17.5
802.11ax HE80	484T 65	5775	MIMO	20.73	21.0
802.11ax HE80	484T 66	5775	Chain0	17.37	17.5
802.11ax HE80	484T 66	5775	Chain1	17.43	17.5
802.11ax HE80	484T 66	5775	MIMO	20.41	20.5
802.11ax HE80	996T 67	5775	Chain0	17.47	17.5
802.11ax HE80	996T 67	5775	Chain1	17.52	18.0
802.11ax HE80	996T 67	5775	MIMO	20.51	21.0

5.2 Maximum permissible exposure (MPE)

Limit:

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz *Plane-wave equivalent power density

Result:

According to §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission’s guidelines.

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

Standalone Transmission Result

Band	Freq. (MHz)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density/ Limit
BT	2480	8.5	9.56	9.036	0.002	1	0.002
BLE	2440	4.5	5.56	3.597	0.001	1	0.001
WIFI 2.4G	2412	21.0	22.06	160.694	0.032	1	0.032
WIFI 5G	5230	21.5	23.31	214.289	0.043	1	0.043

Simultaneous Transmission Result

BT Power1 / Limit	BT Power1 / Limit	WIFI 2.4G Power1 / Limit	WIFI 5G Power2 / Limit	Σ(Power Density / Limit)
0.002	0.002	0.032	0.043	0.079

Note: Simultaneous Transmission Limit = Power Density_1 / Limit_1 + Power Density_2 / Limit_2 < 1.