

FCC RF Exposure Exemption report
for
Laptop

Model No.: ML15

FCC ID: IR5ML15

of

Applicant: MilDef Crete Inc.

Address: 7F, No. 250, Sec.3, Pei Shen Rd., Shen Keng District,
New Taipei City Taiwan R.O.C.

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634



Report No.: W6M22409-23739-EE

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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Registration number: W6M22409-23739-EE

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Worldwide Testing Services(Taiwan) Co., Ltd.

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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

Laboratory disclaimer-

1. The test results of this test report relate exclusively to the item tested as specified in 1.5.
2. The test report may only be reproduced or published in full.
3. Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.
4. Antenna gain is provided by applicant and laboratory issue relevant data and results.

Tester:

November 29, 2024

Ken Kang

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

November 29, 2024

Kevin Wang

Date

WTS

Name

Signature



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1.2 Testing laboratory

1.2.1 Location

10m OATS
No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,
New Taipei City 207, Taiwan (R.O.C.)

3 meter semi-anechoic chamber
No. 99, Sec. 1, Balian Rd., Xizhi Dist.,
New Taipei City 221032, Taiwan (R.O.C.)

Worldwide Testing Services (Taiwan) Co., Ltd.
6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)
Tel: 886-2-6606-8877

1.2.2 Details of accreditation status

Accredited testing laboratory
FCC filed test laboratory Reg. No.: TW1072, TW1140, TW1146, TW1477, TW0037
Industry Canada filed test laboratory Reg. No.: 20037, 31634

Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :

Name: ./.
Accredited no.: ./.
Street: ./.
Town: ./.
Country: ./.

1.3 Application details

Approval holder

Name: MilDef Crete Inc.
Street: 7F, No. 250, Sec.3, Pei Shen Rd., Shen Keng District,
Town: New Taipei City
Country: Taiwan R.O.C.

Manufacturer: (if applicable)

Name: ./.
Street: ./.
Town: ./.
Country: ./.



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Date of receipt of test item: September 27, 2024

Date of test: from September 30, 2024 to November 28, 2024

1.4 General information of Test item

Type of test item: Laptop

Model no.: ML15

Multi-listing model no.: ./.

Brand name: MilDef Crete

Power supply: Adapter (I/P: 100-240V~50-60Hz, 2.2A MAX.
O/P: 19.0V=8.4A, 159.6W)

Battery 10.905Vd.c. 6000mAh 65.43Wh

Type of antenna: PIFA antenna

Antenna gain: WLAN 2.4G

Main antenna: 2.48 dBi

AUX antenna: 2.15 dBi

BT & BLE: 2.48 dBi

WLAN 5G

MAIN antenna

Band 1: -0.72 dBi

Band 2: -0.72 dBi

Band 3: 0.96 dBi

Band 4: 0.35 dBi

AUX antenna

Band 1: 0.47 dBi

Band 2: 0.66 dBi

Band 3: -0.27 dBi

Band 4: 0.23 dBi

WLAN 6G

MAIN antenna

UNII 5: -1.19 dBi

UNII 6: -3.20 dBi

UNII 6-7: -0.54 dBi

UNII 7: -0.54 dBi

UNII 7-8: -0.54 dBi

UNII 8: -0.54 dBi



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AUX antenna
UNII 5: 0.45 dBi
UNII 6: -0.01 dBi
UNII 6-7: -0.01 dBi
UNII 7: -0.12 dBi
UNII 7-8: 1.33 dBi
UNII 8: 1.33 dBi

Directional gain:

WLAN 2.4G: 5.33dBi
WLAN 5G
Band 1: 2.91 dBi
Band 2: 3.01 dBi
Band 3: 3.38 dBi
Band 4: 3.30 dBi
WLAN 6G
UNII 5: 2.68 dBi
UNII 6: 1.55 dBi
UNII 6-7: 2.74 dBi
UNII 7: 2.68 dBi
UNII 7-8: 3.46 dBi
UNII 8: 3.46 dBi

Technical data:

WLAN 2.4G

Band	Mode	Channel	Conducted Power (dBm)
2.4GHz	802.11b	Ch 1 : 2412 MHz	17.49
		Ch 6 : 2437 MHz	17.64
		Ch 11 : 2462 MHz	17.24
	802.11g	Ch 1 : 2412 MHz	14.39
		Ch 6 : 2437 MHz	17.24
		Ch 11 : 2462 MHz	13.86
	802.11ax 20MHz	Ch 1 : 2412 MHz	19.83
		Ch 6 : 2437 MHz	20.22
		Ch 11 : 2462 MHz	18.89
	802.11ax 40MHz	Ch 1 : 2422 MHz	19.91
		Ch 4 : 2437 MHz	20.04
		Ch 7 : 2452 MHz	19.37



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Bluetooth

Normal & EDR

Band	Mode	Channel	Conducted Power (dBm)
2.4GHz	BR	Ch 0 : 2402 MHz	10.22
		Ch 39 : 2441 MHz	10.39
		Ch 78 : 2480 MHz	10.07
	EDR	Ch 0 : 2402 MHz	7.99
		Ch 39 : 2441 MHz	8.09
		Ch 78 : 2480 MHz	7.50

Low Energy

Band	Mode	Channel	Power (dBm)
2.4GHz	BLE 1M	Ch 0 : 2402 MHz	8.47
		Ch 19 : 2440 MHz	8.51
		Ch 39 : 2480 MHz	7.95
	BLE 2M	Ch 0 : 2402 MHz	8.54
		Ch 19 : 2440 MHz	8.59
		Ch 39 : 2480 MHz	8.03

WLAN 5G

Band	Mode	Channel	Conducted Power (dBm)
NII-1	802.11a	Ch 36 : 5180 MHz	14.21
		Ch 44 : 5220 MHz	16.45
		Ch 48 : 5240 MHz	16.45
	802.11ax 20MHz	Ch 36 : 5180 MHz	16.46
		Ch 44 : 5220 MHz	19.12
		Ch 48 : 5240 MHz	19.27
	802.11ax 40MHz	Ch 38 : 5190 MHz	15.08
		Ch 46 : 5230 MHz	18.82
	802.11ax 80MHz	Ch 42 : 5210 MHz	11.75
	802.11ax 160MHz	Ch 50 : 5250 MHz	14.52
NII-2A	802.11a	Ch 52 : 5260 MHz	16.48
		Ch 60 : 5300 MHz	16.55
		Ch 64 : 5320 MHz	15.18
	802.11ax	Ch 52 : 5260 MHz	19.28



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	20MHz	Ch 60 : 5300 MHz	19.25
		Ch 64 : 5320 MHz	17.66
	802.11ax 40MHz	Ch 54 : 5270 MHz	18.56
		Ch 62 : 5310 MHz	15.25
	802.11ax 80MHz	Ch 58 : 5290 MHz	15.56
	802.11ax 160MHz	Ch 50 : 5250 MHz	13.64

Band	Mode	Channel	Conducted Power (dBm)
NII-2C	802.11a	Ch 100 : 5500 MHz	15.56
		Ch 120 : 5600 MHz	15.73
		Ch 140 : 5700 MHz	15.09
	802.11ax 20MHz	Ch 100 : 5500 MHz	18.70
		Ch 120 : 5600 MHz	19.14
		Ch 140 : 5700 MHz	18.31
	802.11ax 40MHz	Ch 102 : 5510 MHz	15.88
		Ch 118 : 5590 MHz	19.01
		Ch 134 : 5670 MHz	18.25
	802.11ax 80MHz	Ch 106 : 5530 MHz	16.76
		Ch 122 : 5610 MHz	18.92
	802.11ax 160MHz	Ch 114 : 5570 MHz	14.72
NII-3	802.11a	Ch 149 : 5745 MHz	16.33
		Ch 157 : 5785 MHz	16.63
		Ch 165 : 5825 MHz	16.81
	802.11ax 20MHz	Ch 149 : 5745 MHz	19.33
		Ch 157 : 5785 MHz	19.49
		Ch 165 : 5825 MHz	19.43
	802.11ax 40MHz	Ch 151 : 5755 MHz	19.41
		Ch 159 : 5795 MHz	19.55
	802.11ax 80MHz	Ch 155 : 5775 MHz	19.82



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WLAN 6G

Band	Mode	Channel	Conducted Power (dBm)
UNII 5	802.11a	Ch 1 : 5955 MHz	0.77
		Ch 45: 6175 MHz	1.38
		Ch 93 : 6415 MHz	1.22
	802.11ax 20MHz	Ch 1 : 5955 MHz	4.04
		Ch 45: 6175 MHz	4.28
		Ch 93 : 6415 MHz	4.20
	802.11ax 40MHz	Ch 3 : 5965 MHz	6.82
		Ch 43 : 6165 MHz	7.04
		Ch 91 : 6405 MHz	6.96
	802.11ax 80MHz	Ch 7 : 5985 MHz	9.53
		Ch 39 : 6145 MHz	9.73
		Ch 87 : 6385 MHz	10.35
	802.11ax 160MHz	Ch 15 : 6025 MHz	12.75
		Ch 47 : 6185 MHz	12.80
		Ch 79 : 6345 MHz	12.78

Band	Mode	Channel	Conducted Power (dBm)
UNII 6	802.11a	Ch 97 : 6345 MHz	1.45
		Ch 105: 6475 MHz	1.32
		Ch 113 : 6515 MHz	1.48
	802.11ax 20 MHz	Ch 97 : 6345 MHz	5.35
		Ch 105: 6475 MHz	5.20
		Ch 113 : 6515 MHz	5.34
	802.11ax 40 MHz	Ch 99 : 6445 MHz	7.94
		Ch 107 : 6485 MHz	7.85
	802.11ax 80 MHz	Ch 103 : 6465 MHz	10.41

Band	Mode	Channel	Conducted Power (dBm)
UNII 6-7	802.11ax 40 MHz	Ch 115 : 6525 MHz	7.86
	802.11ax 80 MHz	Ch 119 : 6545 MHz	10.41
	802.11ax 160 MHz	Ch 111 : 6505 MHz	12.99



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Band	Mode	Channel	Conducted Power (dBm)
UNII 7	802.11a	Ch 117 : 6535 MHz	0.46
		Ch 149 : 6695 MHz	0.26
		Ch 181 : 6855 MHz	0.34
	802.11ax 20 MHz	Ch 117 : 6535 MHz	4.28
		Ch 149 : 6695 MHz	4.17
		Ch 181 : 6855 MHz	4.27
	802.11ax 40 MHz	Ch 123 : 6565 MHz	6.98
		Ch 147 : 6685 MHz	6.95
		Ch 179 : 6845 MHz	6.94
	802.11ax 80 MHz	Ch 135 : 6625 MHz	9.49
		Ch 151 : 6705 MHz	9.54
		Ch 167 : 6785 MHz	9.59
	802.11ax 160 MHz	Ch 143 : 6665 MHz	12.16

Band	Mode	Channel	Conducted Power (dBm)
UNII 7-8	802.11a	Ch 185 : 6875 MHz	0.50
	802.11ax 20 MHz	Ch 185 : 6875 MHz	4.38
	802.11ax 40 MHz	Ch 187 : 6885 MHz	6.99
	802.11ax 80 MHz	Ch 183 : 6865 MHz	9.75
	802.11ax 160 MHz	Ch 175 : 6825 MHz	12.21



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Band	Mode	Channel	Conducted Power (dBm)
UNII 8	802.11a	Ch 189 : 6895 MHz	0.37
		Ch 209 : 6995 MHz	0.72
		Ch 229 : 7095 MHz	0.81
	802.11ax 20 MHz	Ch 189 : 6895 MHz	4.17
		Ch 209 : 6995 MHz	4.43
		Ch 229 : 7095 MHz	4.42
	802.11ax 40 MHz	Ch 195 : 6925 MHz	6.91
		Ch 211 : 7005 MHz	7.19
		Ch 227 : 7085 MHz	7.29
	802.11ax 80 MHz	Ch 199 : 6945 MHz	9.82
		Ch 215 : 7025 MHz	9.87
	802.11ax 160 MHz	Ch 207 : 6985 MHz	12.49

Operation modes:

Duplex

Modulation type:

WLAN 2.4G: DSSS/OFDM

WLAN 5G & WLAN 6G: OFDM/DSSS

Bluetooth: GFSK、 $\pi/4$ DQPSK、8DPSK

Sample no.:

#01

Special statement:

./.

Classification:

Fixed Device	☐
Mobile Device (Human Body distance > 20cm)	☒
Portable Device (Human Body distance < 20cm)	☐



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1.5 Duty cycle and factor

The duty factor is computed as $[10 \log (1 / D)]$, where D is the duty cycle.

WLAN 2.4G

Mode	T _{on} (ms)	T _{on} +T _{off} (ms)	Duty cycle (%)	Duty Factor (dB)	1/T - VBW (kHz)
802.11b	8.429487	8.653846	97.41%	0.11	0.12
802.11g	1.041667	1.25	83.33%	0.79	0.96
802.11ax 20MHz	1.089744	1.298077	83.95%	0.76	0.92
802.11ax 40MHz	1.089744	1.314103	82.93%	0.81	0.92

BLE

Mode	T _{on} (ms)	T _{on} +T _{off} (ms)	Duty cycle (%)	1/T - VBW (kHz)
BLE 1M	0.40865	0.62099	65.81%	2.45
BLE 2M	0.23237	0.62901	36.94%	4.30

WLAN 5G

Mode	T _{on} (ms)	T _{on} +T _{off} (ms)	Duty cycle (%)	Duty Factor (dB)	1/T - VBW (kHz)
802.11a	0.340	0.420	80.92%	0.92	2.94
802.11ax 20MHz	0.125	0.160	78.00%	1.08	8.00
802.11ax 40MHz	0.125	0.157	79.59%	0.99	8.00
802.11ax 80MHz	0.125	0.163	76.47%	1.17	8.00
802.11ax 160MHz	0.128	0.163	78.43%	1.06	7.80

WLAN 6E

Mode	T _{on} (ms)	T _{on} +T _{off} (ms)	Duty cycle (%)	Duty Factor (dB)	1/T - VBW (kHz)
802.11a	0.340	0.420	80.95%	0.92	2.94
802.11ax 20MHz	0.125	0.160	78.13%	1.07	8.00
802.11ax 40MHz	0.125	0.157	79.62%	0.99	8.00
802.11ax 80MHz	0.125	0.163	76.69%	1.15	8.00
802.11ax 160MHz	0.128	0.163	78.53%	1.05	7.81



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1.7 Test standards

47 CFR FCC Part 2.1093

447498 D04 Interim General RF Exposure Guidance v01

2 Test configuration

2.1 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Extreme conditions parameters: ./.

2.2 Measurement uncertainty

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Output Power Measurement (Peak Output Power (transmitter))	Expanded Uncertainty : 1.64 dB

The decision rule is: Measurement uncertainty is not included in the calculation of test results.

2.3 Test Equipment List

Max Output Power

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2024/2/16	2025/2/15
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2024/3/7	2025/3/6
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2024/2/16	2025/2/15
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2024/2/16	2025/2/15



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3 Equivalent Isotropic Radiated Power (EIRP)

3.1 Exemption Limits for Routine Evaluation

according to 47 CFR FCC Part 2 Subpart J, section 2.1091

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

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 limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20 cm normally can be maintained between the user and the device.

MPE Calculation Method

(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

E = Electric field (V/m) P = output power (W) G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2} \text{ mW/cm}^2.$$



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WLAN 2.4G

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Directional gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11b	Ch 1 : 2412 MHz	17.49	2.48	--	--	0.0198	1	0.0198
	Ch 6 : 2437 MHz	17.64	2.48	--	--	0.0205	1	0.0205
	Ch 11 : 2462 MHz	17.24	2.48	--	--	0.0187	1	0.0187
802.11g	Ch 1 : 2412 MHz	14.39	2.48	--	--	0.0097	1	0.0097
	Ch 6 : 2437 MHz	17.24	--	2.15	--	0.0173	1	0.0173
	Ch 11 : 2462 MHz	13.86	2.48	--	--	0.0086	1	0.0086
802.11 ax20MHz	Ch 1 : 2412 MHz	19.83	--	--	5.33	0.0653	1	0.0653
	Ch 6 : 2437 MHz	20.22	--	--	5.33	0.0714	1	0.0714
	Ch 11 : 2462 MHz	18.89	--	--	5.33	0.0525	1	0.0525
802.11 ax40MHz	Ch 1 : 2422 MHz	19.91	--	--	5.33	0.0665	1	0.0665
	Ch 4 : 2437 MHz	20.04	--	--	5.33	0.0685	1	0.0685
	Ch 7 : 2452 MHz	19.37	--	--	5.33	0.0587	1	0.0587

BLE

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
BR	Ch 0 : 2402 MHz	10.22	2.48	0.0037	1	0.0037
	Ch 39 : 2441 MHz	10.39	2.48	0.0038	1	0.0038
	Ch 78 : 2480 MHz	10.07	2.48	0.0036	1	0.0036
EDR	Ch 0 : 2402 MHz	7.99	2.48	0.0022	1	0.0022
	Ch 39 : 2441 MHz	8.09	2.48	0.0023	1	0.0023
	Ch 78 : 2480 MHz	7.50	2.48	0.0020	1	0.0020
1M	Ch 0 : 2402 MHz	8.47	2.48	0.0025	1	0.0025
	Ch 19 : 2440 MHz	8.51	2.48	0.0025	1	0.0025
	Ch 39 : 2480 MHz	7.95	2.48	0.0022	1	0.0022
2M	Ch 0 : 2402 MHz	8.54	2.48	0.0025	1	0.0025
	Ch 19 : 2440 MHz	8.59	2.48	0.0025	1	0.0025
	Ch 39 : 2480 MHz	8.03	2.48	0.0023	1	0.0023



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WLAN 5G

Band 1

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Directional gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 36 : 5180 MHz	14.21	0.47	--	--	0.0059	1	0.0059
	Ch 44 : 5220 MHz	16.45	0.47	--	--	0.0098	1	0.0098
	Ch 48 : 5240 MHz	16.45	0.47	--	--	0.0098	1	0.0098
802.11 ax20MHz	Ch 36 : 5180 MHz	16.46	--	--	2.91	0.0172	1	0.0172
	Ch 44 : 5220 MHz	19.12	--	--	2.91	0.0318	1	0.0318
	Ch 48 : 5240 MHz	19.27	--	--	2.91	0.0329	1	0.0329
802.11 ax40MHz	Ch 38 : 5190 MHz	15.08	--	--	2.91	0.0125	1	0.0125
	Ch 46 : 5230 MHz	18.82	--	--	2.91	0.0296	1	0.0296
802.11 ax80MHz	Ch 42 : 5210 MHz	16.03	--	--	2.91	0.0156	1	0.0156
802.11 ax160MHz	Ch 50 : 5250 MHz	14.52	--	--	2.91	0.011	1	0.011

Band 2

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Directional gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 52 : 5260 MHz	16.48	0.66	--	--	0.0103	1	0.0103
	Ch 60 : 5300 MHz	16.55	0.66	--	--	0.0105	1	0.0105
	Ch 64 : 5320 MHz	15.18	0.66	--	--	0.0076	1	0.0076
802.11 ax20MHz	Ch 52 : 5260 MHz	19.28	--	--	3.01	0.0337	1	0.0337
	Ch 60 : 5300 MHz	19.25	--	--	3.01	0.0335	1	0.0335
	Ch 64 : 5320 MHz	17.66	--	--	3.01	0.0232	1	0.0232
802.11 ax40MHz	Ch 54 : 5270 MHz	18.56	--	--	3.01	0.0286	1	0.0286
	Ch 62 : 5310 MHz	15.25	--	--	3.01	0.0133	1	0.0133
802.11 ax80MHz	Ch 58 : 5290 MHz	15.56	--	--	3.01	0.0143	1	0.0143
802.11 ax160MHz	Ch 50 : 5250 MHz	13.64	--	--	3.01	0.0092	1	0.0092



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Band 3

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Directional gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 100 : 5500 MHz	15.56	-0.27	--	--	0.0067	1	0.0067
	Ch 120 : 5600 MHz	15.73	-0.27	--	--	0.007	1	0.007
	Ch 140 : 5700 MHz	15.09	-0.27	--	--	0.006	1	0.006
802.11 ax20MHz	Ch 100 : 5500 MHz	18.70	--	--	3.38	0.0321	1	0.0321
	Ch 120 : 5600 MHz	19.14	--	--	3.38	0.0355	1	0.0355
	Ch 140 : 5700 MHz	18.31	--	--	3.38	0.0294	1	0.0294
802.11 ax40MHz	Ch 102 : 5510 MHz	15.88	--	--	3.38	0.0168	1	0.0168
	Ch 118 : 5590 MHz	19.01	--	--	3.38	0.0345	1	0.0345
	Ch 134 : 5670 MHz	18.25			3.38	0.0289	1	0.0289
802.11 ax80MHz	Ch 106: 5530 MHz	16.76	--	--	3.38	0.0205	1	0.0205
	Ch 122: 5610 MHz	18.92			3.38	0.0338	1	0.0338
802.11 ax160MHz	Ch 114 : 5570 MHz	14.72	--	--	3.38	0.0128	1	0.0128

Band 4

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Directional gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 149 : 5745 MHz	16.33	0.23	--	--	0.009	1	0.009
	Ch 157 : 5785 MHz	16.63	0.23	--	--	0.0096	1	0.0096
	Ch 165 : 5825 MHz	16.81	0.23	--	--	0.0101	1	0.0101
802.11 ax20MHz	Ch 149 : 5745 MHz	19.33	--	--	3.30	0.0365	1	0.0365
	Ch 157 : 5785 MHz	19.49	--	--	3.30	0.0378	1	0.0378
	Ch 165 : 5825 MHz	19.43	--	--	3.30	0.0373	1	0.0373
802.11 ax40MHz	Ch 151 : 5755 MHz	19.41	--	--	3.30	0.0371	1	0.0371
	Ch 159 : 5795 MHz	19.55	--	--	3.30	0.0384	1	0.0384
802.11 ax80MHz	Ch 155 : 5775 MHz	19.82	--	--	3.30	0.0408	1	0.0408



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WLAN 6E

UNII 5

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Directional gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 1 : 5955 MHz	0.77	0.45	--	--	0.0003	1	0.0003
	Ch 45: 6175 MHz	1.38	0.45	--	--	0.0003	1	0.0003
	Ch 93 : 6415 MHz	1.22	0.45	--	--	0.0003	1	0.0003
802.11 ax20MHz	Ch 1 : 5955 MHz	4.04	--	--	2.68	0.0009	1	0.0009
	Ch 45: 6175 MHz	4.28	--	--	2.68	0.001	1	0.001
	Ch 93 : 6415 MHz	4.20	--	--	2.68	0.001	1	0.001
802.11 ax40MHz	Ch 3 : 5965 MHz	6.82	--	--	2.68	0.0018	1	0.0018
	Ch 43 : 6165 MHz	7.04	--	--	2.68	0.0019	1	0.0019
	Ch 91 : 6405 MHz	6.96	--	--	2.68	0.0018	1	0.0018
802.11 ax80MHz	Ch 7 : 5985 MHz	9.53	--	--	2.68	0.0033	1	0.0033
	Ch 39 : 6145 MHz	9.73	--	--	2.68	0.0035	1	0.0035
	Ch 87 : 6385 MHz	10.35	--	--	2.68	0.004	1	0.004
802.11 ax160MHz	Ch 15 : 6025 MHz	12.75	--	--	2.68	0.0069	1	0.0069
	Ch 47 : 6185 MHz	12.80	--	--	2.68	0.007	1	0.007
	Ch 79 : 6345 MHz	12.78	--	--	2.68	0.007	1	0.007

UNII 6

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Directional gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 97 : 6435 MHz	1.45	--	-0.01	--	0.0003	1	0.0003
	Ch 105 : 6475 MHz	1.32	--	-0.01	--	0.0003	1	0.0003
	Ch 113 : 6515 MHz	1.48	--	-0.01	--	0.0003	1	0.0003
802.11 ax20MHz	Ch 97 : 6435 MHz	5.35	--	--	1.55	0.001	1	0.001
	Ch 105 : 6475 MHz	5.20	--	--	1.55	0.0009	1	0.0009
	Ch 113 : 6515 MHz	5.34	--	--	1.55	0.001	1	0.001
802.11 ax40MHz	Ch 99 : 6445 MHz	7.94	--	--	1.55	0.0018	1	0.0018
	Ch 107 : 6485 MHz	7.85	--	--	1.55	0.0017	1	0.0017
802.11 ax80MHz	Ch 103 : 6465 MHz	10.41	--	--	1.55	0.0031	1	0.0031



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UNII 6-7

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Directional gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11 ax40MHz	Ch 115 : 6525 MHz	7.86	--	--	2.74	0.0023	1	0.0023
802.11 ax80MHz	Ch 119: 6545 MHz	10.41	--	--	2.74	0.0041	1	0.0041
802.11 ax160MHz	Ch 111 : 6505 MHz	12.99	--	--	2.74	0.0074	1	0.0074

UNII 7

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Directional gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 117 : 6535 MHz	0.46	--	-0.12	--	0.0002	1	0.0002
	Ch 149 : 6695 MHz	0.26	--	-0.12	--	0.0002	1	0.0002
	Ch 181 : 6855 MHz	0.34	--	-0.12	--	0.0002	1	0.0002
802.11 ax20MHz	Ch 117 : 6535 MHz	4.28	--	--	2.68	0.001	1	0.001
	Ch 149 : 6695 MHz	4.17	--	--	2.68	0.001	1	0.001
	Ch 181 : 6855 MHz	4.27	--	--	2.68	0.001	1	0.001
802.11 ax40MHz	Ch 123 : 6565 MHz	6.98	--	--	2.68	0.0018	1	0.0018
	Ch 147 : 6685 MHz	6.95	--	--	2.68	0.0018	1	0.0018
	Ch 179 : 6845 MHz	6.94	--	--	2.68	0.0018	1	0.0018
802.11 ax80MHz	Ch 135 : 6625 MHz	9.49	--	--	2.68	0.0033	1	0.0033
	Ch 151 : 6705 MHz	9.54	--	--	2.68	0.0033	1	0.0033
	Ch 167 : 6785 MHz	9.59	--	--	2.68	0.0034	1	0.0034
802.11 ax160MHz	Ch 143 : 6665 MHz	12.16	--	--	2.68	0.006	1	0.006



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UNII 7-8

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Directional gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 185 : 6875 MHz	0.50	-0.54	--	--	0.0002	1	0.0002
802.11 ax20MHz	Ch 185 : 6875 MHz	4.38	--	--	3.46	0.0012	1	0.0012
802.11 ax40MHz	Ch 187 : 6885 MHz	6.99	--	--	3.46	0.0022	1	0.0022
802.11 ax80MHz	Ch 183 : 6865 MHz	9.75	--	--	3.46	0.0041	1	0.0041
802.11 ax160MHz	Ch 175 : 6825 MHz	12.21	--	--	3.46	0.0073	1	0.0073

UNII 8

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Directional gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 189 : 6895 MHz	0.37	-0.54	--	--	0.0002	1	0.0002
	Ch 209 : 6995 MHz	0.72	--	1.33	--	0.0003	1	0.0003
	Ch 229 : 7095 MHz	0.81	--	1.33	--	0.0003	1	0.0003
802.11 ax20MHz	Ch 189 : 6895 MHz	4.17	--	--	3.46	0.0011	1	0.0011
	Ch 209 : 6995 MHz	4.43	--	--	3.46	0.0012	1	0.0012
	Ch 229 : 7095 MHz	4.42	--	--	3.46	0.0012	1	0.0012
802.11 ax40MHz	Ch 195 : 6925 MHz	6.91	--	--	3.46	0.0022	1	0.0022
	Ch 211 : 7005 MHz	7.19	--	--	3.46	0.0023	1	0.0023
	Ch 227 : 7085 MHz	7.29			3.46	0.0024	1	0.0024
802.11 ax80MHz	Ch 199 : 6945 MHz	9.82	--	--	3.46	0.0042	1	0.0042
	Ch 215 : 7025 MHz	9.87			3.46	0.0043	1	0.0043
802.11 ax160MHz	Ch 207 : 6985 MHz	12.49	--	--	3.46	0.0078	1	0.0078



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From the peak EUT RF output power, the minimum mobile separation distance, $d = 20$ cm, as well as the gain of the used antenna, the RF power density can be obtained.

Simultaneous evaluation-

$$0.0714 \text{ (WLAN 2.4G)} + 0.0038 \text{ (BT)} = 0.0752 < 1$$

Simultaneous evaluation-

$$0.0408 \text{ (WLAN 5G)} + 0.0038 \text{ (BT)} = 0.0446 < 1$$

Simultaneous evaluation-

$$0.0078 \text{ (WLAN 6G)} + 0.0038 \text{ (BT)} = 0.0116 < 1$$