



EMF TEST REPORT

Product Name: DTEN D7X AI 55

Model Number: DB7U1R455

FCC ID: 2AQ7Q-DB7U1R455

Issued For : DTEN Inc.

97 E Brokaw Road Suite 180 San Jose CA 95112

Issued By : Shenzhen LGT Test Service Co., Ltd.

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District, Shenzhen, Guangdong, China

Report Number: LGT25L356HA02

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TEST REPORT CERTIFICATION

Applicant: DTEN Inc.
Address: 97 E Brokaw Road Suite 180 San Jose CA 95112
Manufacturer: DTEN Inc.
Address: 97 E Brokaw Road Suite 180 San Jose CA 95112
Product Name: DTEN D7X AI 55
Trademark: DTEN
Model Number: DB7U1R455
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR §2.1091 KDB 447498 D01 General RF Exposure Guidance v06	PASS

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Revision History

Rev.	Issue Date	Revisions
00	Jan. 29, 2026	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	DTEN D7X AI 55	
Test Model Number:	DB7U1R455	
Series Number:	N/A	
Model Difference:	N/A	
Frequency Bands:	Bluetooth	2402 – 2480 MHz
	2.4G WLAN	802.11b/g/n/ax(20MHz): 2412~2462MHz 802.11n/ax(40MHz):2422~2452MHz
	5G WLAN	IEEE 802.11a/n(HT20)/ ac(VHT20)/ ax(HE20)/ be(EHT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ ac(VHT40)/ax(HE40) /be(EHT40): 5.190GHz-5.230GHz IEEE 802.11 ac(VHT80)/ax(HE80)/be(EHT80): 5.210GHz IEEE 802.11 ac(VHT160)/ax(HE160) /be(EHT160): 5250GHz
		IEEE 802.11a/n(HT20)/ ac(VHT20)/ax(HE20) /be(EHT20): 5.260GHz-5.320GHz IEEE 802.11 n(HT40)/ ac(VHT40)/ax(HE40) /be(EHT40): 5.270GHz-5.310GHz IEEE 802.11 ac(VHT80)/ax(HE80) /be(EHT80): 5.290GHz
		IEEE 802.11a/n(HT20)/ ac(VHT20)/ax(HE20) /be(EHT20): 5.500GHz-5.700GHz IEEE 802.11 n(HT40)/ ac(VHT40)/ax(HE40)/ be(EHT40): 5.510GHz-5.670GHz IEEE 802.11 ac(VHT80)/ax(HE80)/be(EHT80): 5.530GHz-5.610GHz IEEE 802.11 ac(VHT160)/ax(HE160)/be(EHT160): 5570GHz
		IEEE 802.11a/n(HT20)/ ac(VHT20)/ax(HE20) /be(EHT20):5.745GHz-5.825GHz IEEE 802.11a/n(HT40)/ac(VHT40)/ax(HE40)/ be(EHT40): 5.755GHz-5.795GHz IEEE 802.11 ac(VHT80)/ax(HE80)/be(EHT80): 5.775GHz
	6G WLAN	IEEE 802.11a/n/ac/ax/be(20MHz): 5.955GHz-7.115GHz IEEE 802.11n/ac/ax/be(40MHz): 5.969GHz-7.085GHz IEEE 802.11ac/ax/be(80MHz): 5.985GHz-7.025GHz IEEE 802.11ax/be(160MHz): 6.025GHz-6.985GHz IEEE 802.11be(320MHz): 6.105GHz-6.905GHz
	24G Millimeter Wave	24.059 ~ 24.239GHz
Rating:	Input: AC 100~240V 50/60Hz 3.0A	
Hardware Version:	N/A	
Software Version:	N/A	



1.2 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	FCC Registration No.: 746540
	CAB ID: CN0136



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)
Limits for Occupational / controlled Exposures			
0.3-3.0	614	1.63	*(100)
3.0-30	1842/f	4.89/f	*(900/f ²)
30-300	61.4	0.163	1.0
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
0.3-1.34	614	1.63	*(100)
1.34-30	824/f	2.19/f	*(180/f ²)
30-300	27.5	0.073	0.2
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

F= Frequency in MHz

* = Plane-wave equivalent power density.

Friss Formula

Friss Transmission Formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.



2.5 TEST RESULT

Turn up Result

Mode	Turn up Power
BT-GFSK	6±1dBm
BT-π/4-DQPSK	8±1dBm
BT-8DPSK	8.5±1dBm
BLE 1M-GFSK	6±1dBm
BLE 2M-GFSK	6±1dBm
2.4G WIFI-802.11b	16±1dBm
2.4G WIFI-802.11g	14±1dBm
2.4G WIFI-802.11ax(HE20)	15.5±1dBm
2.4G WIFI-802.11ax(HE40)	15.5±1dBm
2.4G WIFI-802.11n(HT20)	14.5±1dBm
2.4G WIFI-802.11n(HT40)	14.5±1dBm
5G WIFI-802.11a	16±1dBm
5G WIFI-802.11n(HT20)	13.5±1dBm
5G WIFI-802.11n(HT40)	13.5±1dBm
5G WIFI-802.11ac(VHT20)	13.5±1dBm
5G WIFI-802.11ac(VHT40)	13.5±1dBm
5G WIFI-802.11ac(VHT80)	13.5±1dBm
5G WIFI-802.11ac(VHT160)	13±1dBm
5G WIFI-802.11ax(HE20)	13.5±1dBm
5G WIFI-802.11ax(HE40)	13±1dBm
5G WIFI-802.11ax(HE80)	13.5±1dBm
5G WIFI-802.11ax(HE160)	13.5±1dBm
5G WIFI-802.11be(EHT20)	14±1dBm
5G WIFI-802.11be(EHT40)	13.5±1dBm
5G WIFI-802.11be(EHT80)	13.5±1dBm
5G WIFI-802.11be(EHT160)	13.5±1dBm
WIFI 6E-802.11ax(HE20)	5.5±1dBm
WIFI 6E-802.11ax(HE40)	8±1dBm
WIFI 6E-802.11ax(HE80)	10.5±1dBm
WIFI 6E-802.11ax(HE160)	13.5±1.5dBm
WIFI 6E-802.11be(EHT20)	6±1dBm
WIFI 6E-802.11be(EHT40)	8.5±1dBm
WIFI 6E-802.11be(EHT80)	10.5±1dBm
WIFI 6E-802.11be(EHT160)	13.5±1dBm
WIFI 6E-802.11be(EHT320)	14.5±1dBm
24G Millimeter Wave	



The MPE result of worst mode:

RF Function	Frequency (MHz)	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain (dBi)	ANT Gain (gain of antenna in linear scale)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio	Result
BLE	2440	7.00	5.01	2.25	1.68	0.002	1	0.002	Pass
BT	2441	9.50	8.91	2.25	1.68	0.003	1	0.003	Pass
2.4G WIFI	2462	17.00	50.12	2.25	1.68	0.017	1	0.017	Pass
5G WIFI	5200	17.00	50.12	2.25	1.68	0.017	1	0.017	Pass
WIFI 6E	6265	14.00	25.12	2.22	1.32	0.007	1	0.007	Pass

Multiple transmission: BT+5G WIFI= 0.003+0.017=0.02 < 1

Note:

1. The RF Exposure is less than the limit, complies with the exemption requirements.

*****END OF THE REPORT*****