

RF EXPOSURE REPORT



Applicant: Lantronix, Inc.
48 Discovery, Suite 250 Irvine, CA 92618 USA
Manufacturer: Lantronix, Inc.
48 Discovery, Suite 250 Irvine, CA 92618 USA
Product Name: FOX5 Series
Brand Name: LANTRONIX
Model No.: FOX5-4G-C1B
FCC ID RI7LE910Q1SF (LTE)
R68FOX5BT (BT/BLE)
Date of EUT Received: Apr. 08, 2026
Issue Date: Aug. 10, 2026

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091, KDB 447498 D01 v06.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2604000240ES	00	Original	Aug. 10, 2026	Cindy Chou	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	FOX5 Series
Brand Name:	LANTRONIX
Model No.:	FOX5-4G-C1B

1.2 Evaluation site

Laboratory		Site Address	FCC Designation number/ Registration Number	ISED Company Number	CAB Identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	☐	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.	TW0027/ 891563	4620A	TW3702
	☒	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028/ 200037	4620E	
	☐	1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Neihu District, Taipei City, 222 Taiwan.	TW0029/ 150169	23862	

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1.3 Antenna Information:

Antenna Type	Antenna Part No.
Monopole	Y2REB0HA0AA

Operating Frequency (MHz)		Peak Gain (dBi)
LTE-Band 2	1850 ~ 1910	3.7
LTE-Band 4	1710 ~ 1755	3.7
LTE-Band 5	824 ~ 849	2.9
LTE-Band 12	699 ~ 716	2.9
LTE-Band 13	777 ~ 787	2.9
LTE-Band 14	788 ~ 798	2.9
LTE-Band 66	1710 ~ 1780	3.7

Antenna Type	Brand	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	Quectel Wireless Solutions Co., Ltd.	YC0009AA	2400~2500	0.10

Note: Antenna information is provided by the applicant.

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1.4 Rated Power

Operating Frequency (MHz)		Max. Output Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (W)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Density / Limit	FCC Worst Case
LTE-Band 2	1850 ~ 1910	25.00	3.70	26.55	0.45	0.15	1.00	0.15	
LTE-Band 4	1710 ~ 1755	25.00	3.70	26.55	0.45	0.15	1.00	0.15	
LTE-Band 5	824 ~ 849	25.00	2.90	25.75	0.38	0.12	0.55	0.22	
LTE-Band 12	699 ~ 716	25.00	2.90	25.75	0.38	0.12	0.47	0.26	V
LTE-Band 13	777 ~ 787	25.00	2.90	25.75	0.38	0.12	0.52	0.24	
LTE-Band 14	788 ~ 798	25.00	2.90	25.75	0.38	0.12	0.53	0.23	
LTE-Band 66	1710 ~ 1780	25.00	3.70	26.55	0.45	0.15	1.00	0.15	

Note: PG information is provided by the applicant.

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2 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
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
1500-100000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

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

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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2.2 Power Density Calculation (Worst Case)

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail	Power Density / Limit	Collocated MPE
BT	2480.0	20	10.39	0.10	11.19	0.0022	1.000	Pass	0.002	V
LTE-Band 2	1850.7	20	25	3.70	741.31	0.148	1.000	Pass	0.148	
LTE-Band 4	1710.7	20	25	3.70	741.31	0.148	1.000	Pass	0.148	
LTE-Band 5	824.7	20	25	2.90	616.60	0.123	0.550	Pass	0.223	
LTE-Band 12	699.7	20	25	2.90	616.60	0.123	0.466	Pass	0.263	V
LTE-Band 13	779.5	20	25	2.90	616.60	0.123	0.520	Pass	0.236	
LTE-Band 14	788.0	20	25	2.90	616.60	0.123	0.525	Pass	0.234	
LTE-Band 66	1710.7	20	25	3.70	741.31	0.148	1.000	Pass	0.148	

Conclusion: Source-base time average power is below Exemption Criteria and/or Routine Evaluation MPE thresholds, therefore the device is compliant FCC RF exposure requirement.

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

2.2.1 Collocated Power Density Calculation

Operation Mode	Power Density / Limit	Σ (Power Density / Limit)
BT	0.002	0.265
WWAN	0.263	

Note:

1. $\Sigma(\text{Power Density} / \text{Limit})$: This is a summation of $[(\text{Power Density for each transmitter/antenna included in the simultaneous transmission}) / (\text{corresponding MPE limit})]$.
2. Considering the collocated transmitters, the aggregated (Power Density / limit) is smaller than 1, and MPE of collocated transmitters is compliant

~ End of Report ~

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