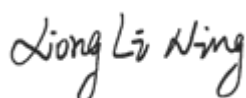


TEST REPORT

Applicant: MeiG Smart Technology Co., Ltd
Address: 2nd Floor, Office Building, No.5 Lingxia Road,
Fenghuang, Fuyong Street, Bao'an District
Shenzhen City, China
Equipment Type: Smart Module
Model Name: SLM927F
Brand Name: MEIGLink
FCC ID: 2APJ4-SLM927F
Test Standard: 47 CFR Part 2.1091
KDB 447498 D04 v01
Sample Arrival Date: Jun. 10, 2025
Test Date: Jun. 17, 2025 - Jul. 26, 2025
Date of Issue: Aug. 11, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Xiong Lining**Checked by:** Xu Rui**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Aug. 11, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	MeiG Smart Technology Co., Ltd
Address	2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District Shenzhen City, China

2.2 Manufacturer Information

Manufacturer	MeiG Smart Technology Co., Ltd
Address	2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District Shenzhen City, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Smart Module
Model Name Under Test	SLM927F
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.00
Software Version	V01_T10
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/12/13/17/25/26/66/71 TDD LTE Band 41 Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n and 802.11ac GPS, Galileo, GLONASS, BDS
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	WCDMA, LTE, 2.4G WLAN, 5G WLAN, Bluetooth		
Frequency Range	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	LTE Band 26	TX: 814 ~ 824 MHz	RX: 859 ~ 869 MHz
		TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 41	TX: 2535 ~ 2655 MHz	RX: 2535 ~ 2655 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	LTE Band 71	TX: 663 ~ 698 MHz	RX: 617 ~ 652 MHz
	802.11b/g /n(HT20/HT40)	2412 ~ 2462 MHz	
	802.11a/ n(HT20/HT40)/ ac(VHT20/VHT40/V HT80)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	Bluetooth	2402 ~ 2480 MHz	
Antenna Type	WWAN	External Antenna	
	WLAN	External Antenna	
	Bluetooth	External Antenna	
Exposure Category	General Population/Uncontrolled Exposure		
Product Type	Mobile Device		

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1091	Radiofrequency radiation exposure evaluation: mobile devices
2	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01

4 DEVICE CATEGORY AND LEVELS LIMITS

Mobile Devices:

CFR Title 47 §2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

FCC KDB 447498 D04 General RF Exposure Guidance v01 Limit

Evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i. e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).
The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
300		39	65	88	110	129	148	166	184	201	217
450		22	44	67	89	112	135	158	180	203	226
835		9	25	44	66	90	116	145	175	207	240
1900		3	12	26	44	66	92	122	157	195	236
2450		3	10	22	38	59	83	111	143	179	219
3600		2	8	18	32	49	71	96	125	158	195
5800		1	6	14	25	40	58	80	106	136	169

5 ASSESSMENT RESULT

5.1 Output Power

WCDMA			
Mode	Band2	Band4	Band5
Conducted Power (dBm)	23.01	23.62	22.20
Antenna Gain (dBi)	2.30	3.05	2.69
ERP/EIRP (dBm)	25.31	26.67	22.74
Note: This table listed the worst case power value, please refer to BL-SZ2560500-501 report for more details.			

LTE							
Mode	Band2	Band4	Band5	Band7	Band12	Band13	Band17
Conducted Power (dBm)	24.22	23.83	23.01	24.27	23.51	23.71	23.50
Antenna Gain (dBi)	2.30	3.05	2.69	3.07	5.29	3.52	5.29
ERP/EIRP (dBm)	26.52	26.88	23.55	27.34	26.65	25.08	26.64
Mode	Band25	Band26(Part22)	Band26(Part90)	Band41	Band66	Band71	
Conducted Power (dBm)	23.74	22.84	23.42	22.70	24.96	23.89	
Antenna Gain (dBi)	2.30	2.69	2.69	3.07	3.05	5.29	
ERP/EIRP (dBm)	26.04	23.38	23.96	25.77	28.01	27.03	
Note: This table listed the worst case power value, please refer to BL-SZ2560500-501 report for more details.							

Mode	Bluetooth
Conducted Power (dBm)	11.46
Antenna Gain (dBi)	3.95
EIRP (dBm)	15.41
Note: This table listed the worst case power value, please refer to BL-SZ2560500-601& BL-SZ2560500-602 report for more details.	

Mode	2.4G WIFI
Conducted Power (dBm)	16.77
Antenna Gain (dBi)	3.95
EIRP (dBm)	20.72
Note: This table listed the worst case power value, please refer to BL-SZ2560500-603 report for more details.	

Mode	5.2G WIFI	5.8G WIFI	5.8G WIFI	5.8G WIFI
Conducted Power (dBm)	16.80	16.55	16.98	17.02
Antenna Gain (dBi)	2.70	2.07	1.48	1.48
EIRP (dBm)	19.50	18.62	18.46	18.50
Note: This table listed the worst case power value, please refer to BL-SZ2560500-604 report for more details.				

5.2 Tune-up power

Mode	Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
WCDMA Band2	[22.00, 24.00]	[24.00, 26.00]	[21.85, 23.85]
WCDMA Band4	[22.00, 24.00]	[25.00, 27.00]	[22.85, 24.85]
WCDMA Band5	[21.00, 23.00]	/	[21.00, 23.00]
LTE Band2	[23.00, 25.00]	[25.00, 27.00]	[22.85, 24.85]
LTE Band4	[22.00, 24.00]	[25.00, 27.00]	[22.85, 24.85]
LTE Band5	[22.00, 24.00]	/	[22.00, 24.00]
LTE Band7	[23.00, 25.00]	[26.00, 28.00]	[23.85, 25.85]
LTE Band12	[22.00, 24.00]	/	[25.00, 27.00]
LTE Band13	[22.00, 24.00]	/	[24.00, 26.00]
LTE Band17	[22.00, 24.00]	/	[25.00, 27.00]
LTE Band25	[22.00, 24.00]	[25.00, 27.00]	[22.85, 24.85]
LTE Band26(Part22)	[21.00, 23.00]	/	[22.00, 24.00]
LTE Band26(Part90)	[22.00, 24.00]	/	[22.00, 24.00]
LTE Band41	[21.00, 23.00]	[24.00, 26.00]	[21.85, 23.85]
LTE Band66	[23.00, 25.00]	[27.00, 29.00]	[24.85, 26.85]
LTE Band71	[22.00, 24.00]	/	[26.00, 28.00]
Bluetooth	[10.00, 12.00]	[14.00, 16.00]	[11.85, 13.85]
2.4G WIFI	[15.00, 17.00]	[19.00, 21.00]	[16.85, 18.85]
5.2G WIFI	[15.00, 17.00]	[18.00, 20.00]	[15.85, 17.85]
5.3G WIFI	[15.00, 17.00]	[17.00, 19.00]	[14.85, 16.85]
5.6G WIFI	[15.00, 17.00]	[17.00, 19.00]	[14.85, 16.85]
5.8G WIFI	[16.00, 18.00]	[17.00, 19.00]	[14.85, 16.85]

Note1: ERP= EIRP -2.15dB.

Note2: According KDB 447498 D04, used the greater of maximum conducted power and ERP to compare with the threshold value Pth.

5.3 RF Exposure Evaluation Result

Evolution Mode	Maximum Power (dBm)	Maximum Power (mw)	Distance (mm)	Threshold Power (mW)	Power / Limit	Verdict
WCDMA Band2	24.00	251.19	200	3060.00	0.0821	Pass
WCDMA Band4	24.85	305.49	200	3060.00	0.0998	Pass
WCDMA Band5	23.00	199.53	200	1731.96	0.1152	Pass
LTE Band2	25.00	316.23	200	3060.00	0.1033	Pass
LTE Band4	24.85	305.49	200	3060.00	0.0998	Pass
LTE Band5	24.00	251.19	200	1731.96	0.1450	Pass
LTE Band7	25.85	384.59	200	3060.00	0.1257	Pass
LTE Band12	27.00	501.19	200	1460.64	0.3431	Pass
LTE Band13	26.00	398.11	200	1605.48	0.2480	Pass
LTE Band17	27.00	501.19	200	1460.64	0.3431	Pass
LTE Band25	24.85	305.49	200	3060.00	0.0998	Pass
LTE Band26(Part22)	24.00	251.19	200	1731.96	0.1450	Pass
LTE Band26(Part90)	24.00	251.19	200	1680.96	0.1494	Pass
LTE Band41	23.85	242.66	200	3060.00	0.0793	Pass
LTE Band66	26.85	484.17	200	3060.00	0.1582	Pass
LTE Band71	28.00	630.96	200	1423.92	0.4431	Pass
Bluetooth	13.85	24.27	200	3060.00	0.0079	Pass
2.4G WIFI	18.85	76.74	200	3060.00	0.0251	Pass
5.2G WIFI	17.85	60.95	200	3060.00	0.0199	Pass
5.3G WIFI	17.00	50.12	200	3060.00	0.0164	Pass
5.6G WIFI	17.00	50.12	200	3060.00	0.0164	200
5.8G WIFI	18.00	63.10	200	3060.00	0.0206	200

5.4 Collocated Power Calculation

Evolution Mode	Frequency (GHz)	Power / Limit	$\Sigma(\text{Power} / \text{Limit})$ of WWAN + Bluetooth + WLAN 5G	Verdict
LTE Band71	0.698	0.2480	0.4141	Pass
Bluetooth	2.480	0.0079		
5.8G WIFI	5.850	0.1582		
Evolution Mode	Frequency (GHz)	Power / Limit	$\Sigma(\text{Power} / \text{Limit})$ of WWAN + WLAN 2.4G + WLAN 5G	Verdict
LTE Band71	0.698	0.4431	0.4888	Pass
2.4G WIFI	2.462	0.0251		
5.8G WIFI	5.850	0.0206		

Note:

1. $\Sigma(\text{Power} / \text{Limit})$: This is a summation of [(power for each transmitter/ antenna included in the simultaneous transmission)/ (corresponding Power limit)], for WWAN + Bluetooth + WLAN 5G & WWAN + WLAN 2.4G + WLAN 5G.
2. Both of the WWAN/WLAN/Bluetooth can transmit simultaneously, the formula of calculated the Power is

$$\text{CP1} / \text{LP1} + \text{CP2} / \text{LP2} + \dots \text{etc.} < 1$$

CP = Calculation power
LP = Limit of power
3. Both of the Bluetooth and WLAN 2.4G can't transmit simultaneously at same time.
4. The worst-case situation is 0.4888, which is less than "1". This confirmed that the device comply with FCC KDB 447498 D04 Power limit.
5. The DUT work frequency range used is 663 MHz ~ 698 MHz, 2402 MHz ~ 2480 MHz, 2412 MHz ~ 2462 MHz and 5725 MHz ~ 5850 MHz the result close to the limit by the above formula, so we select worst case power to calculate the exclusion power threshold.

5.5 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
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--END OF REPORT--