

RF Exposure Evaluation Report

APPLICANT : MeiG Smart Technology Co., Ltd
EQUIPMENT : Smart Module
BRAND NAME : MEIGLink
MODEL NAME : SLM560D
FCC ID : 2APJ4-SLM560D
STANDARD : 47 CFR Part 2.1091
FCC KDB 447498 D01 v06

The product evaluation date was started from Aug. 13, 2026 and completed on Aug. 13, 2026. We, Sporton International Inc. (Kunshan), would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.



Approved by: Si Zhang

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA632507	Rev. 01	Initial issue of report	Sep. 07, 2026



1. Administration Data

1.1. Testing Laboratory

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-KS	CN1257	314309

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

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



2. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	Smart Module
Brand Name	MEIGLink
Model Name	SLM560D
FCC ID	2APJ4-SLM560D
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II : 1850 MHz ~ 1910 MHz WCDMA Band IV : 1710 MHz ~ 1755 MHz WCDMA Band V : 824 MHz ~ 849 MHz LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 38: 2570 MHz ~ 2620 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+(16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
Antenna Gain	GSM850 : 2.4 dBi GSM1900 : 1.6 dBi WCDMA Band II : 1.6 dBi WCDMA Band IV : 2.2 dBi WCDMA Band V : 2.4 dBi LTE Band 2 : 1.6 dBi LTE Band 4 : 2.2 dBi LTE Band 5 : 2.4 dBi LTE Band 7 : 3.4 dBi LTE Band 38 : 2 dBi WLAN2.4GHz/Bluetooth: 3.95 dBi WLAN5.2GHz: 2.7 dBi WLAN5.3GHz: 2.07 dBi WLAN5.5GHz: 1.48 dBi WLAN5.8GHz: 1.45 dBi
Antenna Type	WWAN : Monopole Antenna WLAN/Bluetooth : Monopole Antenna
EUT Stage	Identical Prototype
Remark:	
1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.	

Comments and Explanations:

1. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.
2. The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer.

3. Maximum RF average output tune up power among production units

<GSM>

Mode	Burst average power(dBm)	
	GSM 850	GSM 1900
GSM (GMSK, 1 Tx slot)	35.00	33.00
GPRS (GMSK, 1 Tx slot)	35.00	33.00
GPRS (GMSK, 2 Tx slots)	32.00	31.00
GPRS (GMSK, 3 Tx slots)	30.00	31.00
GPRS (GMSK, 4 Tx slots)	29.00	31.00
EDGE (8PSK, 1 Tx slot)	30.00	29.00
EDGE (8PSK, 2 Tx slots)	29.00	28.00
EDGE (8PSK, 3 Tx slots)	27.00	25.00
EDGE (8PSK, 4 Tx slots)	26.00	25.00

<WCDMA>

Mode		Maximum Average power(dBm)
WCDMA	Band II	25.00
	Band IV	25.00
	Band V	25.00

<LTE>

Mode		Maximum Average power(dBm)
LTE	Band 2	25.70
	Band 4	25.70
	Band 5	25.70
	Band 7	25.70
	Band 38	25.70

**<2.4GHz WLAN>**

Frequency	Mode	Maximum Average Power (dBm)
WLAN 2.4GHz	802.11b	15.00
	802.11g	15.00
	802.11n-HT20	14.00
	802.11n-HT40	14.00

<Bluetooth>

Frequency	Mode	Maximum Average Power (dBm)
Bluetooth	BR/EDR	12.00
	LE	7.50

<5GHz WLAN>

Frequency	Mode	Maximum Average Power (dBm)
WLAN 5.2GHz	802.11a	16.00
	802.11n-HT20	16.00
	802.11n-HT40	15.00
	802.11ac-VHT20	16.00
	802.11ac-VHT40	15.00
	802.11ac-VHT80	14.00
WLAN 5.3GHz	802.11a	16.00
	802.11n-HT20	16.00
	802.11n-HT40	15.00
	802.11ac-VHT20	16.00
	802.11ac-VHT40	15.00
	802.11ac-VHT80	14.00
WLAN 5.5GHz	802.11a	16.00
	802.11n-HT20	16.00
	802.11n-HT40	15.00
	802.11ac-VHT20	16.00
	802.11ac-VHT40	15.00
	802.11ac-VHT80	13.00
WLAN 5.8GHz	802.11a	16.00
	802.11n-HT20	16.00
	802.11n-HT40	15.00
	802.11ac-VHT20	16.00
	802.11ac-VHT40	15.00
	802.11ac-VHT80	13.00

4. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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				
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

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:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna



5. Radio Frequency Radiation Exposure Evaluation

5.1. Standalone Power Density Calculation

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Average EIRP (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
GSM 850 (1 Tx slot)	824.2	2.40	35.00	37.400	691.831	0.138	0.549	0.251
GPRS 850 (1 Tx slot)	824.2	2.40	35.00	37.400	691.831	0.138	0.549	0.251
GPRS 850 (2 Tx slots)	824.2	2.40	32.00	34.400	691.831	0.138	0.549	0.251
GPRS 850 (3 Tx slots)	824.2	2.40	30.00	32.400	651.628	0.130	0.549	0.236
GPRS 850 (4 Tx slots)	824.2	2.40	29.00	31.400	691.831	0.138	0.549	0.251
EGPRS 850 (1 Tx slot)	824.2	2.40	30.00	32.400	218.776	0.044	0.549	0.079
EGPRS 850 (2 Tx slots)	824.2	2.40	29.00	31.400	346.737	0.069	0.549	0.126
EGPRS 850 (3 Tx slots)	824.2	2.40	27.00	29.400	326.588	0.065	0.549	0.118
EGPRS 850 (4 Tx slots)	824.2	2.40	26.00	28.400	346.737	0.069	0.549	0.126
GSM 1900 (1 Tx slot)	1850.2	1.60	33	34.600	363.078	0.072	1.000	0.072
GPRS 1900 (1 Tx slot)	1850.2	1.60	33	34.600	363.078	0.072	1.000	0.072
GPRS 1900 (2 Tx slots)	1850.2	1.60	31	32.600	457.088	0.091	1.000	0.091
GPRS 1900 (3 Tx slots)	1850.2	1.60	31	32.600	682.339	0.136	1.000	0.136
GPRS 1900 (4 Tx slots)	1850.2	1.60	31	32.600	912.011	0.182	1.000	0.182
EGPRS 1900 (1 Tx slot)	1850.2	1.60	29	30.600	144.544	0.029	1.000	0.029
EGPRS 1900 (2 Tx slots)	1850.2	1.60	28	29.600	229.087	0.046	1.000	0.046
EGPRS 1900 (3 Tx slots)	1850.2	1.60	25	26.600	171.396	0.034	1.000	0.034
EGPRS 1900 (4 Tx slots)	1850.2	1.60	25	26.600	229.087	0.046	1.000	0.046
WCDMA Band 2	1852.4	1.60	25.00	26.600	457.088	0.091	1.000	0.091
WCDMA Band 4	1712.4	2.20	25.00	27.200	524.807	0.104	1.000	0.104
WCDMA Band 5	826.4	2.40	25.00	27.400	549.541	0.109	0.551	0.199
LTE Band 2	1850.7	1.60	25.70	27.300	537.032	0.107	1.000	0.107
LTE Band 4	1710.7	2.20	25.70	27.900	616.595	0.123	1.000	0.123
LTE Band 5	824.7	2.40	25.70	28.100	645.654	0.129	0.550	0.234
LTE Band 7	2502.5	3.40	25.70	29.100	812.831	0.162	1.000	0.162
LTE Band 38	2570.0	2.00	25.70	27.700	588.844	0.117	1.000	0.117
Bluetooth	2402.0	3.95	12.00	15.950	39.355	0.008	1.000	0.008
2.4GHz WLAN	2412.0	3.95	15.00	18.950	78.524	0.016	1.000	0.016
5.2GHz WLAN	5180.0	2.70	16.00	18.700	74.131	0.015	1.000	0.015
5.3GHz WLAN	5260.0	2.07	16.00	18.070	64.121	0.013	1.000	0.013
5.5GHz WLAN	5500.0	1.48	16.00	17.480	55.976	0.011	1.000	0.011
5.8GHz WLAN	5745.0	1.45	16.00	17.450	55.590	0.011	1.000	0.011

Note:

1. For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.
2. Chose the maximum power to do MPE analysis.
3. Chose the maximum RF output tune up power and the maximum antenna gain of all antennas among same frequency WWAN bands to perform MPE calculation conservatively.

**5.2. Collocated Power Density Calculation**

WWAN Power Density / Limit	WLAN2.4 GHz Power Density / Limit	$\Sigma(\text{Power Density / Limit})$ of WWAN+ WLAN 2.4GHz
0.251	0.016	0.267

WWAN Power Density / Limit	WLAN5GHz Power Density / Limit	Bluetooth Power Density / Limit	$\Sigma(\text{Power Density / Limit})$ of WWAN+ WLAN 5GHz + Bluetooth
0.251	0.015	0.008	0.274

Note:

1. According to the EUT characteristic, WLAN2.4GHz and WLAN5GHz (or Bluetooth) cannot transmit simultaneously.
2. $\Sigma(\text{Power Density / Limit})$: This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for WWAN + WLAN 2.4GHz and WWAN + Bluetooth + WLAN 5GHz.
3. Considering all transmitters of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of collocated transmitters is compliant.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

-----THE END-----