



EMC TEST REPORT

Applicant	MeiG Smart Technology Co., Ltd
FCC ID	2APJ4-SLM336-L
Product	LTE Cat1 Module
Brand	MEIGLink
Model	SLM336-L
Report No.	EFTA25010039-IE-05-E1V1
Issue Date	March 4, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC Code CFR47 Part15B (2024)**/ **ANSI C63.4-2014**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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EMC Test Report

Report No.: EFTA25010039-IE-05-E1V1

Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	February 24, 2025
Rev.1 Updated information.		March 4, 2025
Note: This revised report (Report No.: EFTA25010039-IE-05-E1V1) supersedes and		
replaces the previously issued report (Report No.: EFTA25010039-IE-05-E1). Please discard		
or destroy the previously issued report and dispose of it accordingly.		

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Summary of measurement results

Number	Test Case Clause in FCC Rules Conclu		Conclusion	
1	Radiated Emission FCC Part15.109, ANSI C63.4-2014 PASS		PASS	
2	2 Conducted Emission FCC Part15.107, ANSI C63.4-2014 PASS			
Date of Testing: January 2, 2025 ~ January 26, 2025				
Date of Sample Received: December 30, 2024				
Note: All indications of Pass/Fail in this report are opinions expressed by Eurofins TA				
Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results.				
Measurement Uncertainties were not taken into account and are published for informational				
purposes only.				

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company:	Eurofins TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City:	Shanghai
Post code:	201201
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E-mail:	Kain.Xu@cpt.eurofinscn.com

2 General Description of Equipment Under Test

2.1 Applicant and Manufacturer Information

Applicant	MeiG Smart Technology Co., Ltd	
Applicant address 2nd Floor,Office Building,No.5 Lingxia Road,Fenghuan		
Street,Bao'an District,Shenzhen, China.		
Manufacturer	MeiG Smart Technology Co., Ltd	
2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,F		
Manufacturer address	Street,Bao'an District,Shenzhen, China.	

2.2 General Information

EUT Description			
Device Type	Module Device		
Model	SLM336-L		
IMEI	867442070189994		
HW Version	SLM336E_MB_PCB_V1	.00	
SW Version	V51_U04		
Power Rating	DC 3.8V		
Connecting I/O Port(s)	Please refer to the User's Manual.		
Antenna Type	External Antenna		
	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824 ~ 849	869 ~ 894
	GSM 1900	1850 ~ 1910	1930 ~ 1990
-	LTE Band 2	1850 ~ 1910	1930 ~ 1990
Frequency	LTE Band 4	1710 ~ 1755	2110 ~ 2155
	LTE Band 5	824 ~ 849	869 ~ 894
	LTE Band 7	2500 ~ 2570	2620 ~ 2690
	LTE Band 66	1710 ~ 1780	2110 ~ 2180
Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.			



2.3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards FCC Code CFR47 Part15B (2024) ANSI C63.4-2014



2.4 Test Mode

Test Mode	
Mode 1	External Power Supply + PCB Layout+ EUT+ GSM/LTE Receiver

Test Type	Test Mode	Worst Mode
Radiated Emission	Mode 1	Mode 1
Conducted Emission	Mode 1	Mode 1
After technical evaluation or/and preliminary test, the test data of the worst-case condition was		
recorded in this report.		

3 Test Case Results

3.1 Radiated Emission

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	30% ~ 60%

Methods of Measurement

The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. The distance between EUT and receive antenna should be 10 meters below 1GHz; 3 meters for above 1GHz. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated signal level. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. During the test, the EUT is worked at maximum output power.

Set the spectrum analyzer in the following:

Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO Above 1GHz:

- (a) PEAK Detector: RBW=1MHz / VBW=3MHz/ Sweep=AUTO
- (b) AVERAGE Detector: RBW=1MHz / VBW=3MHz / Sweep=AUTO

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

During the test, EUT is connected to a laptop via a USB cable in the case of power supply.

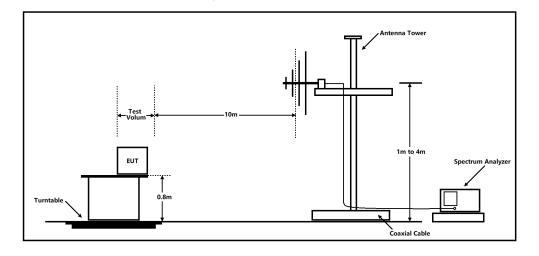


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Test Setup

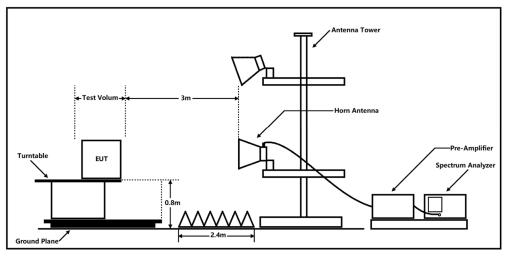
Below 1GHz

Distance 10m



Note: Area side: 21m x 12m

Above 1GHz



Note: Area side: 2.4mX3.6m

Antenna Tower meets ANSI C63.4 requirements for measurements above 1 GHz by keeping the antenna aimed at the EUT during the antenna's ascent/ descent along the antenna mast.

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Limits

Class B

Frequency (MHz)	Field Strength (dBµV/m)	Detector
30 -88	30.0	Quasi-peak
88-216	33.5	Quasi-peak
216 – 960	36.0	Quasi-peak
960-1000	44.0	Quasi-peak
1000-5 th harmonic of the highest	54	Average
frequency or 40GHz, which is lower	74	Peak

Frequency range of radiated measurements

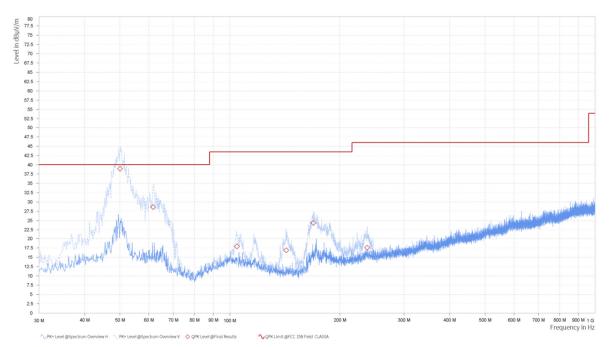
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

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Test Results

Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier.

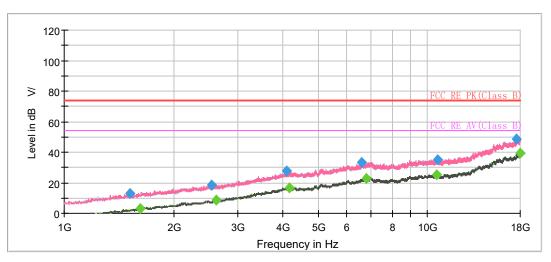
The following graphs display the maximum values of horizontal and vertical by software. A symbol ($^{dB-V\prime}$) in the test plot below means (dBµV/m)



Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (m)	Polarization	Azimuth (deg)	Correct Factor (dB)
50.020	38.95	40.00	1.05	2.02	V	234.6	-8.31
61.577	28.65	40.00	11.35	1.00	V	123.8	-10.02
104.541	17.93	43.50	25.57	1.00	V	146.9	-10.03
142.663	16.86	43.50	26.64	1.00	V	301.4	-13.28
169.426	24.36	43.50	19.14	1.00	V	43.4	-12.15
237.629	17.58	46.00	28.42	1.99	V	253.7	-8.73

Remark: 1. Correction Factor = Antenna factor + Insertion loss(cable loss+amplifier gain) 2. Margin = Limit – Quasi-Peak



For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

Radiated Emission from 1GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dB µ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1516.375000	13.06		74.00	60.94	150.0	200.0	Н	159.0	-16.9
1616.250000		3.31	54.00	50.69	150.0	200.0	Н	114.0	-16.3
2551.250000	18.44		74.00	55.56	150.0	100.0	Н	100.0	-12.1
2617.125000		8.68	54.00	45.32	150.0	200.0	Н	78.0	-12.0
4104.625000	27.93		74.00	46.07	150.0	200.0	Н	252.0	-6.6
4166.250000		16.88	54.00	37.12	150.0	200.0	V	153.0	-6.7
6569.625000	33.08		74.00	40.92	150.0	200.0	Н	198.0	-3.4
6797.000000		22.91	54.00	31.09	150.0	100.0	V	187.0	-3.2
10605.000000		25.17	54.00	28.83	150.0	200.0	V	0.0	-0.8
10670.875000	35.07		74.00	38.93	150.0	100.0	V	276.0	-0.8
17604.750000	48.88		74.00	25.12	150.0	100.0	V	74.0	10.1
17983.000000		39.12	54.00	14.88	150.0	200.0	Н	325.0	11.0

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit – MaxPeak / Average

3.2 Conducted Emission

Ambient Condition

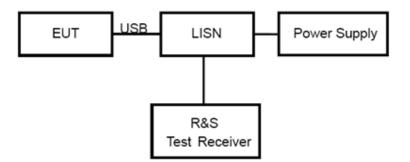
Temperature	Relative humidity
15°C ~ 35°C	30% ~ 60%

Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.

During the test, EUT is connected to a laptop via a USB cable in the case of power supply.

Test Setup



Note: Power Supply is DC Power source and it is used to change the voltage 3.5V.

Limits

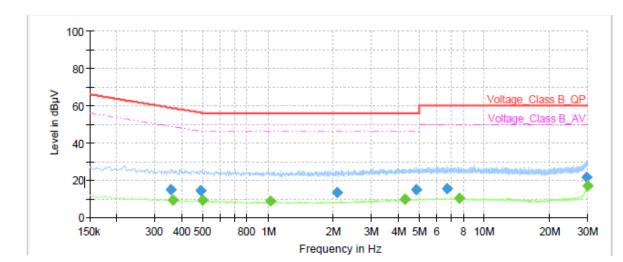
Frequency	Class A	(dBµV)	Class B (dBµV)			
(MHz)	Quasi-peak	Average	Quasi-peak	Average		
0.15 - 0.5	79	66	66 to 56 *	56 to 46*		
0.5 - 5	73	60	56	46		
5 - 30	73	60	60	50		
* Decreases with the logarithm of the frequency.						

Note: The EUT should meet CLASS B limit.



Test Results

Following plots, Blue trace uses the peak detection; Green trace uses the average detection.



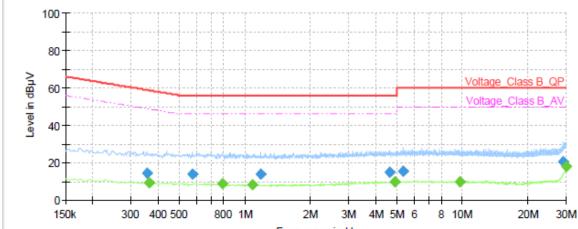
Frequency (MHz)	QuasiPeak (dBµV)	Average (dBμV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.36	14.64		58.80	44.16	1000.0	9.000	L1	ON	20.9
0.36		9.33	48.69	39.36	1000.0	9.000	L1	ON	20.9
0.49	14.35		56.21	41.86	1000.0	9.000	L1	ON	20.8
0.50		9.10	46.00	36.90	1000.0	9.000	L1	ON	20.8
1.03		8.48	46.00	37.52	1000.0	9.000	L1	ON	20.1
2.08	13.40		56.00	42.60	1000.0	9.000	L1	ON	19.6
4.31		9.60	46.00	36.40	1000.0	9.000	L1	ON	19.4
4.84	15.00		56.00	41.00	1000.0	9.000	L1	ON	19.4
6.73	15.50		60.00	44.50	1000.0	9.000	L1	ON	19.4
7.62		10.04	50.00	39.96	1000.0	9.000	L1	ON	19.4
29.79	21.61		60.00	38.39	1000.0	9.000	L1	ON	19.8
30.00		17.01	50.00	32.99	1000.0	9.000	L1	ON	19.8

Remark: Correct factor=cable loss + LISN factor

L line

Conducted Emission from 150 kHz to 30 MHz





Frequency in Hz

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.35	14.54		58.85	44.31	1000.0	9.000	Ν	ON	20.9
0.36		9.29	48.69	39.40	1000.0	9.000	Ν	ON	20.9
0.57	13.96		56.00	42.04	1000.0	9.000	Ν	ON	20.7
0.79		8.50	46.00	37.50	1000.0	9.000	Ν	ON	20.3
1.09		8.28	46.00	37.72	1000.0	9.000	Ν	ON	20.1
1.18	13.63		56.00	42.37	1000.0	9.000	Ν	ON	20.0
4.62	15.04		56.00	40.96	1000.0	9.000	Ν	ON	19.4
4.88		9.86	46.00	36.14	1000.0	9.000	Ν	ON	19.4
5.34	15.30		60.00	44.70	1000.0	9.000	Ν	ON	19.4
9.73		9.93	50.00	40.07	1000.0	9.000	Ν	ON	19.4
29.11	20.56		60.00	39.44	1000.0	9.000	Ν	ON	19.9
30.00		18.09	50.00	31.91	1000.0	9.000	Ν	ON	19.9

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

4 Uncertainty Measurement

Case	Uncertainty	Factor k
Radiated Emission 30MHz – 200MHz	3.39 dB	1.96
Radiated Emission 200MHz – 1GHz	3.82 dB	1.96
Radiated Emission 1GHz – 18GHz	6.51 dB	1.96
Conducted Emission	2.57 dB	2

5 Main Test Instruments

Name of Equipment	Manufacturer	Type/Model	Serial Number	Calibration Date	Expiration Time		
Wideband radio communication tester	R&S	CMW500	113645	2024-12-02	2025-12-01		
Radiated Emission							
EMI Test Receiver	R&S	ESR	102720	2024-05-07	2025-05-06		
EMI Test Receiver	R&S	ESR	102721	2024-05-07	2025-05-06		
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	01614	2023-09-13	2026-09-12		
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	01615	2023-10-19	2026-10-18		
Software	R&S	ELEKTRA	5.02.1	1	/		
Signal Analyzer	R&S	FSV40	101186	2024-05-07	2025-05-06		
Horn Antenna	ETS-Lindgren	3160-09	00102643	2024-09-24	2027-09-23		
Antenna mast	ETS	2070-2	00095628	1	/		
Software	R&S	EMC32	9.26.01	1	/		
Conducted Emission							
Artificial main network	R&S	ENV216	102191	2024-12-02	2026-12-01		
EMI Test Receiver	R&S	ESR	101667	2024-05-07	2025-05-06		
Software	R&S	EMC32	10.35.10	/	/		



ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.



ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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