



FCC PART 15.247 TEST REPORT

For

Fujian LANDI Commercial Equipment Co., Ltd.

Building 17, Section A, Software Park, No. 89 Software Road, Gulou District, Fuzhou Municipality,
Fujian Province, China

FCC ID: 2AG6N-SLM927AM4MG

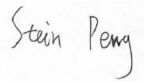
Report Type: Class II Permissive Change Report	Product Name: Smart Module
Report Number:	2407W89604E-RF-02
Report Date:	2024-09-24
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2407W89604E-RF-02	R1V1	2024-09-24	Class II Permission Change

GENERAL INFORMATION**Product Description for Equipment under Test (EUT)**

Product Name:	Smart Module
Tested Model:	SLM927
★Power Supply:	DC3.8V
Maximum Conducted Output Power:	BLE: 2.64dBm WIFI:18.52dBm
Frequency Range:	BLE: 2402-2480MHz Wi-Fi: 2412-2462MHz
Modulation Technique:	BLE: GFSK WIFI: DSSS, OFDM
Antenna Type:	FPC Antenna
★Maximum Antenna Gain:	0.84dBi
EUT Received Status:	Good
<i>Note:</i> 1. The Maximum Antenna Gain was declared by manufacturer. 2. The power supply by user manual. 3. All measurement and test data in this report was gathered from production sample serial number: 2M7D-3. (Assigned by the BACL (Xiamen). The EUT supplied by the applicant was received on 2024-06-17)	

Objective

This report is prepared on behalf of Fujian LANDI Commercial Equipment Co., Ltd. in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Xiamen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone Xiamen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

Measurement Uncertainty

Item		U _{lab}
AC Power Lines Conducted Emissions	150kHz-30MHz	2.33 dB
Radiated emission	9kHz-30MHz	2.59 dB
	30MHz-200MHz	4.38 dB
	200MHz~1GHz	4.50 dB
	1GHz~6GHz	4.58 dB
	6GHz~18GHz	5.43 dB
	18GHz~26.5GHz	5.47 dB
Occupied Bandwidth		0.10MHz
Transmitter Conducted Power		0.624 dB
Temperature		1 °C
Humidity		5%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

SYSTEM TEST CONFIGURATION

Test Mode and Voltage

The system was configured for testing in a typical mode (as normally used by a typical user).	
Test mode:	Test mode 1: Transmitting
Test voltage:	Test mode 1: AC120V/60Hz
Remark:	During all emission tests, the EUT was configured to measure its highest possible emission level and the worst case's test data was presented in this test report.

Description of Test Configuration

For BLE mode, 40 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

EUT was tested with Channel 0, 19 and 39.

For 802.11b, 802.11g, 802.11n-HT20, 802.11n-HT40 mode, 11 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	/	/
6	2437	/	/
7	2442	/	/

For 802.11b, 802.11g, 802.11n-HT20 mode, EUT was tested with Channel 1, 6 and 11.
For 802.11n-HT40 mode, EUT was tested with Channel 3, 6 and 9.

Equipment Modifications

No modification was made to the EUT tested.

★EUT Exercise Software

BLE & Wi-Fi test in the engineer mode.

RF Test Tool: QRCT4

The device was tested with the worst case was performed as below:

Test Modes	Test Channels	Test Frequency	Data rate	Power Level Setting
802.11b	Low	2412	1Mbps	18
	Middle	2437		18
	Highest	2462		18
802.11g	Low	2412	6Mbps	15
	Middle	2437		15
	Highest	2462		15
802.11n20	Low	2412	MCS0	14
	Middle	2437		14
	Highest	2462		14
802.11n40	Low	2422	MCS0	12
	Middle	2437		13
	Highest	2452		13

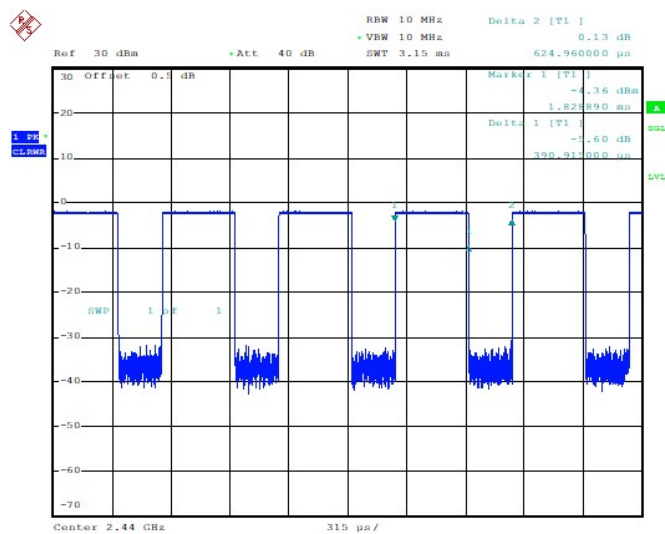
Test Modes	Power Level Setting		
	Lowest Channel	Middle Channel	Highest Channel
1Mbps	Default	Default	Default
2Mbps	Default	Default	Default

Pre-scan with all the data rates, the above data rate is the worst case for Wi-Fi and BLE test.

Duty cycle

For BLE:

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/Ton (Hz)	VBW Setting (kHz)
Middle	0.391	0.625	62.56	2.04	2558	3

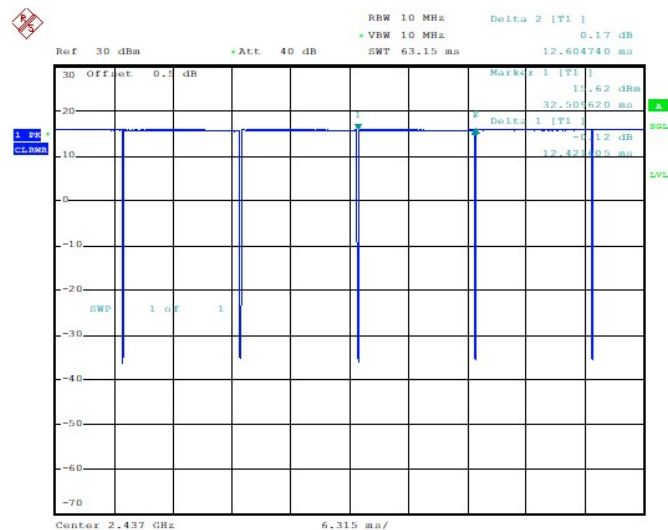


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Date: 10.AUG.2024 16:23:05

For Wi-Fi

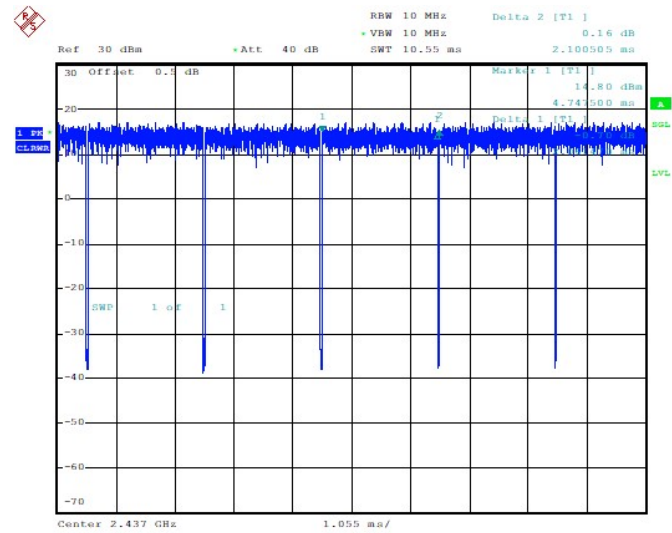
Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/Ton (Hz)	VBW Setting (kHz)
b_2437MHz_Chain 0	12.422	12.605	98.55	/	/	0.010
g_2437MHz_Chain 0	2.061	2.101	98.10	/	/	0.010
n20_2437MHz_Chain 0	1.922	1.962	97.96	0.09	520	1
n40_2437MHz_Chain 0	0.947	0.999	94.79	0.23	1056	2

802.11b Middle Channel



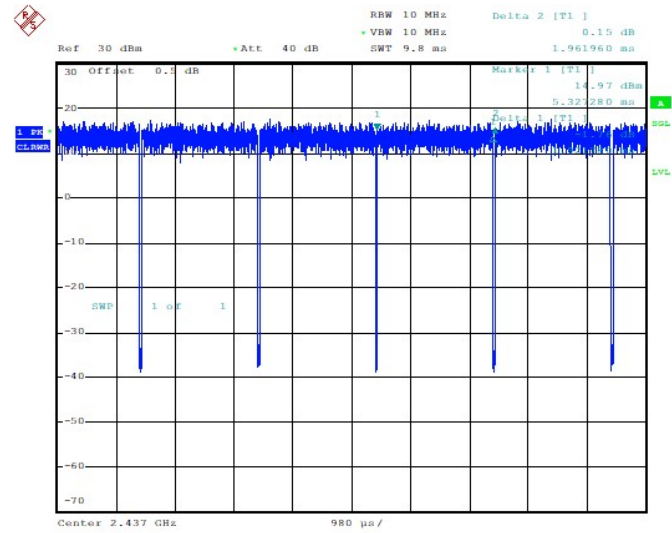
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802.11g Middle Channel



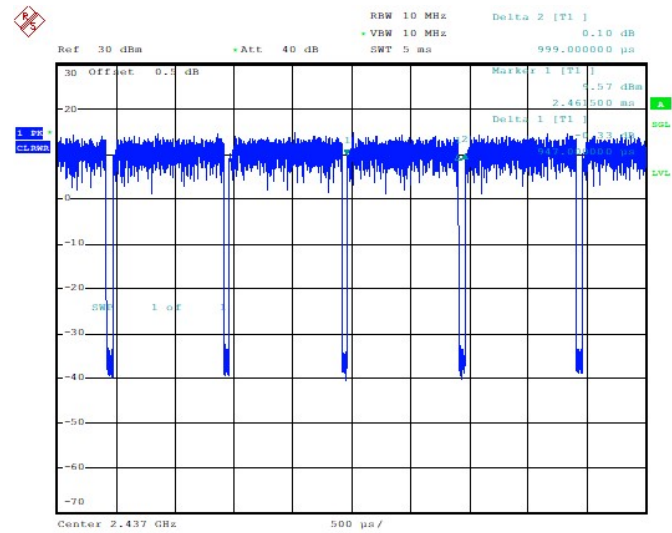
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Date: 10.AUG.2024 15:44:17

802.11n ht20 Middle Channel



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Date: 10.AUG.2024 15:44:56

802.11n ht40 Middle Channel



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Date: 10.AUG.2024 15:46:38

Support Equipment List and Details

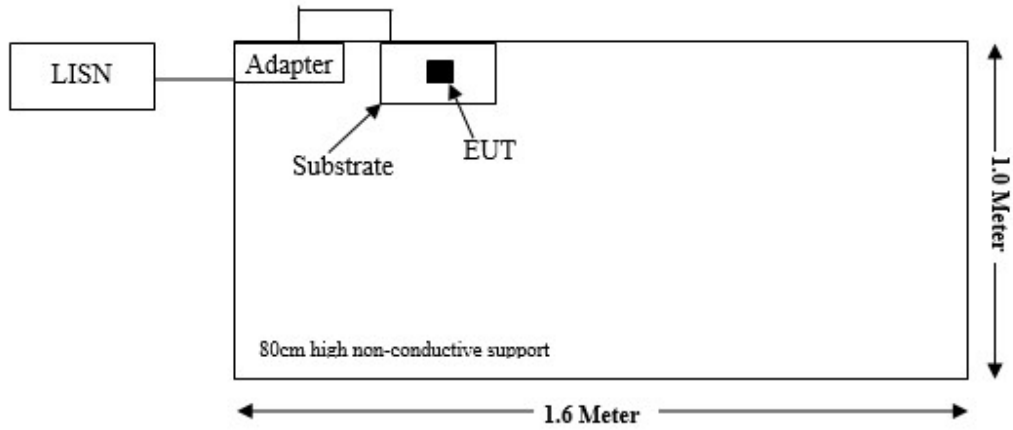
Manufacturer	Description	Model	Serial Number
LITEON	AC ADAPTER	PA-1650-90	NSW26604
LIANDI	Substrate	C20_C_V100	245075

External I/O Cable

Cable Description	Length (m)	From Port	To
POWER CABLE	1.2	EUT	ADAPTER
POWER CABLE	1.0	ADPTER	SOCKET

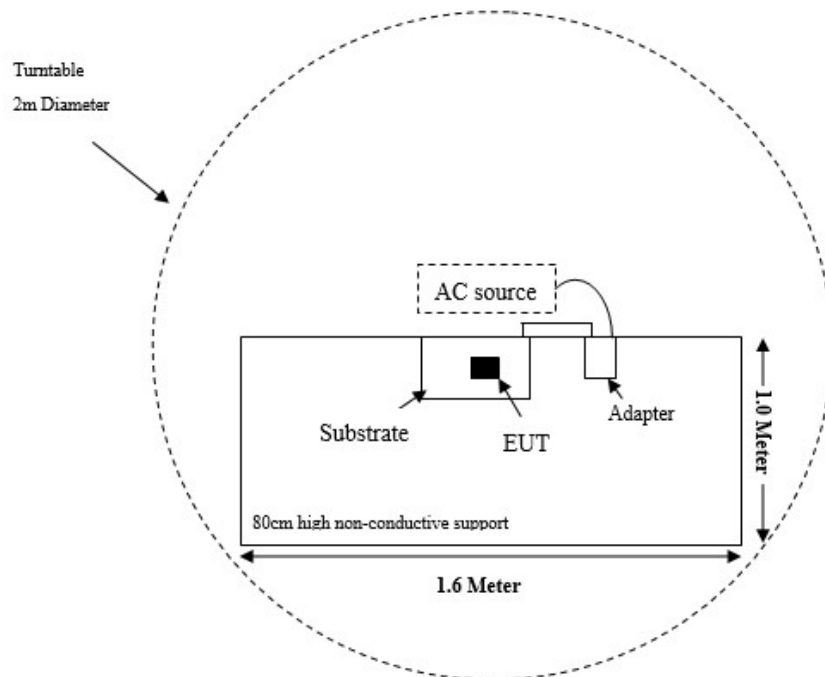
Block Diagram of Test Setup

Conducted Emission:

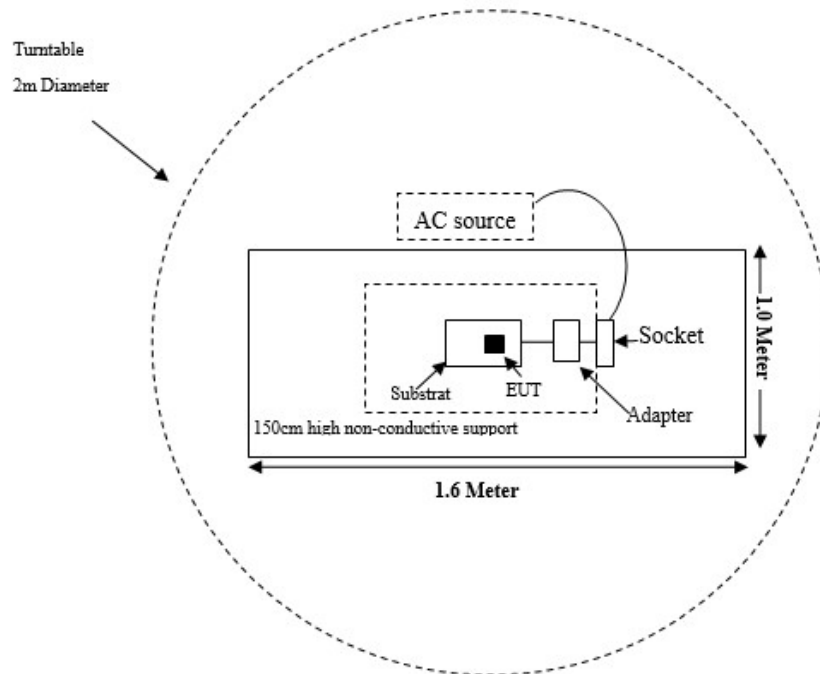


Radiated Emission:

Below 1GHz



Above 1GHz



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result	Remark
§15.203	Antenna Requirement	Compliance	
§15.207 (a)	AC Line Conducted Emissions	Compliance	
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance	
§15.247 (a)(2)	6 dB Emission Bandwidth	-	See Note 2
§15.247(b)(3)	Maximum Conducted Output Power	Reporting	
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	-	See Note 2
§15.247(e)	Power Spectral Density	-	See Note 2

Note 1:

This is Class II permissive change application based on the Change ID device, model: SLM927, FCC ID: 2AG6N-SLM927AM4MG. The Change ID device based on the original device, model: SLM927, FCC ID: 2APJ4-SLM927, which was tested by Sporton International Inc. (Kunshan). The change between the original equipment and the current equipment is stated and guaranteed by the applicant, as following:

1. Change the antenna.

Per Spot check with RF output power, the RF parameters are identical with the original device. Therefore, AC Line Conducted Emissions and Radiated Spurious Emissions was tested based on the change.

Note 2:

Please refer to Report No: FR372809B (BLE) and FR372809C (2.4G WIFI)

The Bay Area Compliance Laboratories Corp. (Xiamen) is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report.

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions					
EMI Test Receiver	Rohde & Schwarz	ESR	103105	2024/03/29	2025/03/28
LISN	Rohde & Schwarz	ENV216	100129	2024/03/29	2025/03/28
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2024/03/29	2025/03/28
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2024/03/29	2025/03/28
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/07/27	2026/07/26
Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
Amplifier	Sonoma	310B	120903	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2024/03/29	2025/03/28
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2024/03/29	2025/03/28
Filter Switch Unit	Decentest	DT7220FSU	DS79904	2024/02/23	2025/02/22
Multiplex Switch Test Control Set	Decentest	DT7220SCU	DS79901	2024/02/23	2025/02/22
Double Ridge Guide Horn Antenna	A.H.Systems	SAS-571	1980	2023/07/28	2026/07/27
Preamplifier	A.H.Systems	PAM-0118P	489	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2024/03/29	2025/03/28
Horn Antenna	EMCO	3116	9407-2232	2023/07/31	2026/07/30
Preamplifier	A.H.Systems	PAM-1840	200	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-3M	CC008	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-1M	CC009	2024/03/29	2025/03/28
Test Software	Audix	E3	18621a	N/A	N/A
RF Conducted Test					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2024/03/29	2025/03/28
Coaxial Cable	N/A	N/A	N/A	2024/03/29	2025/03/28
Power Sensor	HP	8481A	PS20240325	2024/03/29	2025/03/28

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Xiamen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has one FPC antenna arrangement for Bluetooth & WIFI, which was permanently attached and the antenna gain is 0.84 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

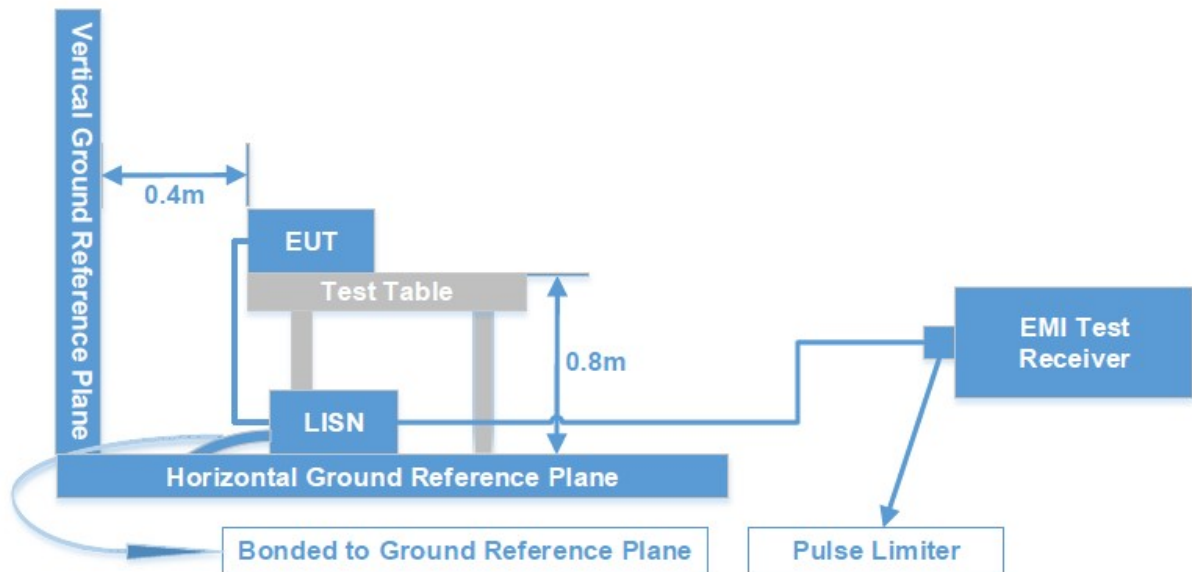
Result: Compliance

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Test System Setup



The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	VBW	Detector
150 kHz – 30 MHz	9 kHz	30 kHz	QP/AV

Test Procedure

ANSI C63.10-2013 clause 6.2

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Level & Margin Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

$$\text{Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

$$\text{Level (dB}\mu\text{V)} = \text{Reading (dB}\mu\text{V)} + \text{Factor (dB)}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

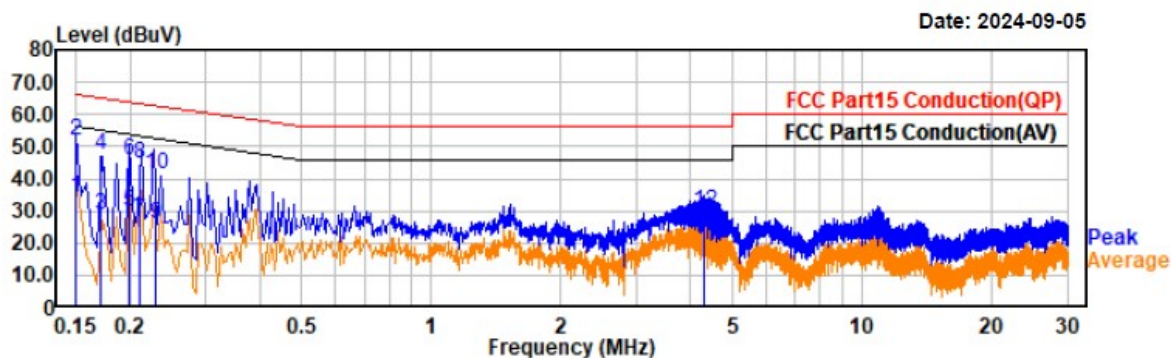
$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Level (dB}\mu\text{V)}$$

Test Data

Temperature:	21.8°C
Relative Humidity:	56%
ATM Pressure:	100.1kPa
Test Date:	2024-09-05
Test Engineer:	Toby Chen

Project No.: 2407W89604E-RF
Test Mode: 2.4G WIFI b 2412MHz Tx
EUT Model: SLM927

Temp/Humi/ATM: 21.8°C/56%/100.1kPa
Tested by: Toby Chen
Power Source: AC 120V/60Hz

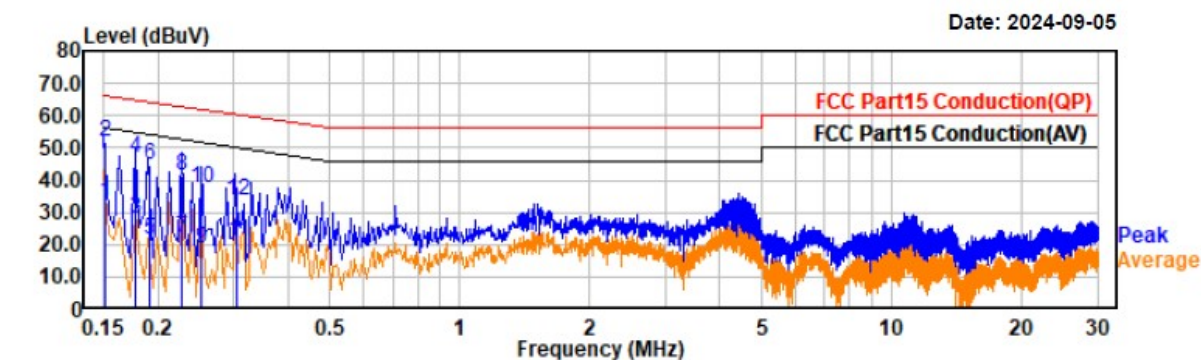


Trace: 1

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.15	12.91	21.03	33.94	55.97	22.03	Line	Average
0.15	30.90	21.03	51.93	65.97	14.04	Line	QP
0.17	7.67	21.14	28.81	54.90	26.09	Line	Average
0.17	26.09	21.14	47.23	64.90	17.67	Line	QP
0.20	8.47	21.27	29.74	53.64	23.90	Line	Average
0.20	24.72	21.27	45.99	63.64	17.65	Line	QP
0.21	5.99	21.21	27.20	53.15	25.95	Line	Average
0.21	23.35	21.21	44.56	63.15	18.59	Line	QP
0.23	4.82	21.12	25.94	52.50	26.56	Line	Average
0.23	20.43	21.12	41.55	62.50	20.95	Line	QP
4.31	0.40	20.93	21.33	46.00	24.67	Line	Average
4.31	9.06	20.93	29.99	56.00	26.01	Line	QP

Project No.: 2407W89604E-RF
Test Mode: 2.4G Wi-Fi b 2412MHz Tx
EUT Model: SLM927

Temp/Humi/ATM: 21.8°C/56%/100.1kPa
Tested by: Toby Chen
Power Source: AC 120V/60Hz

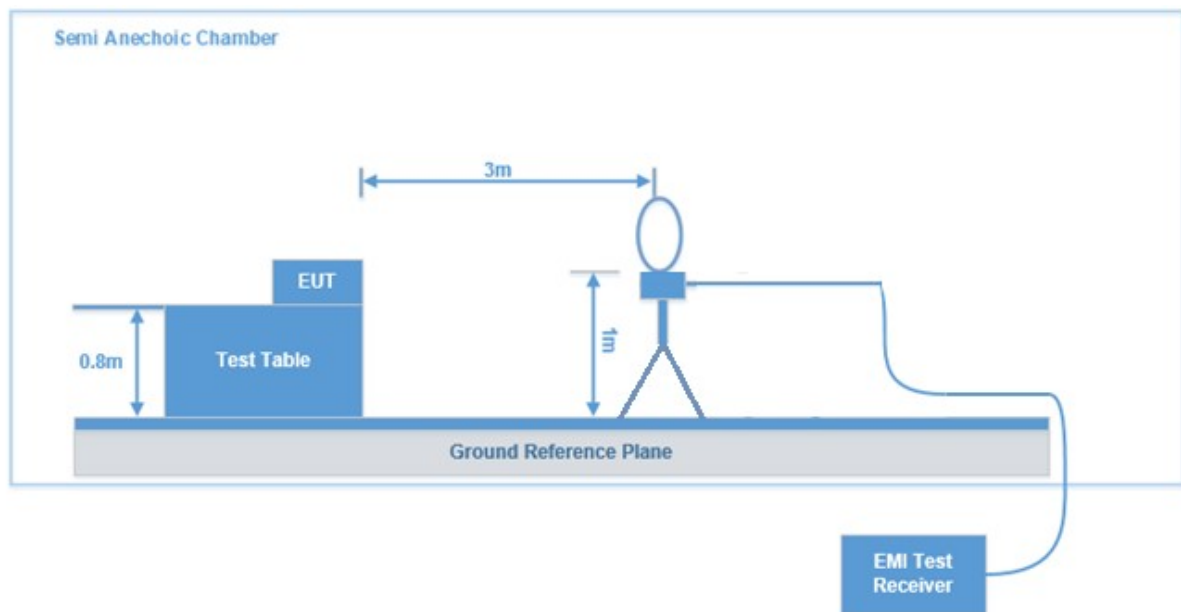
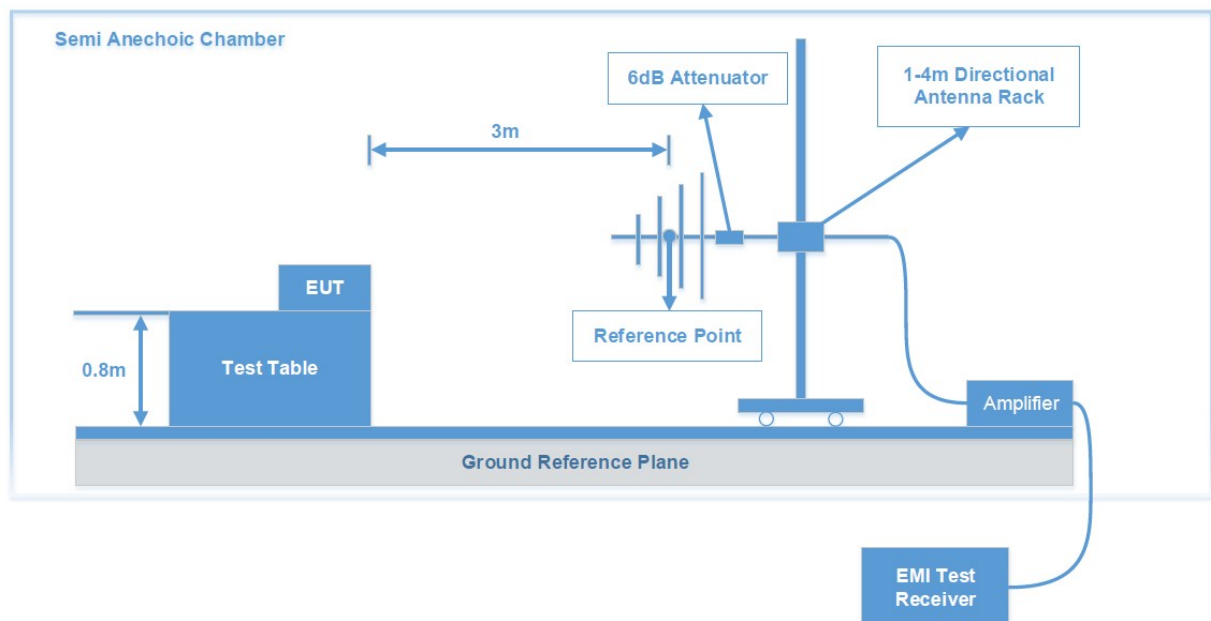


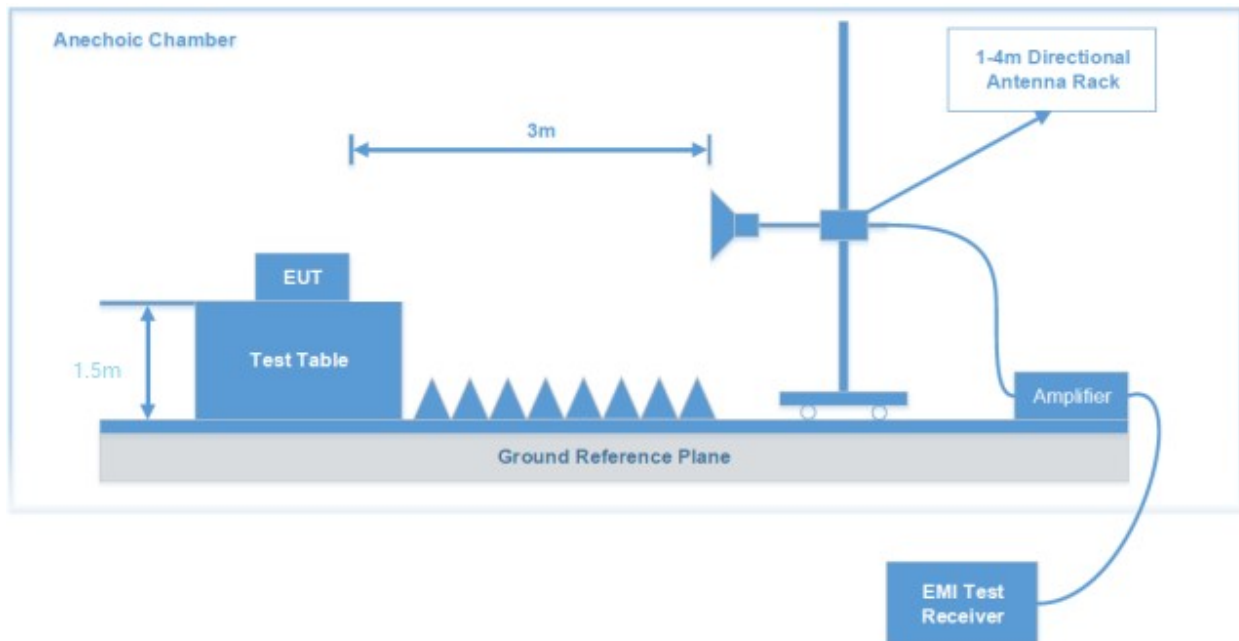
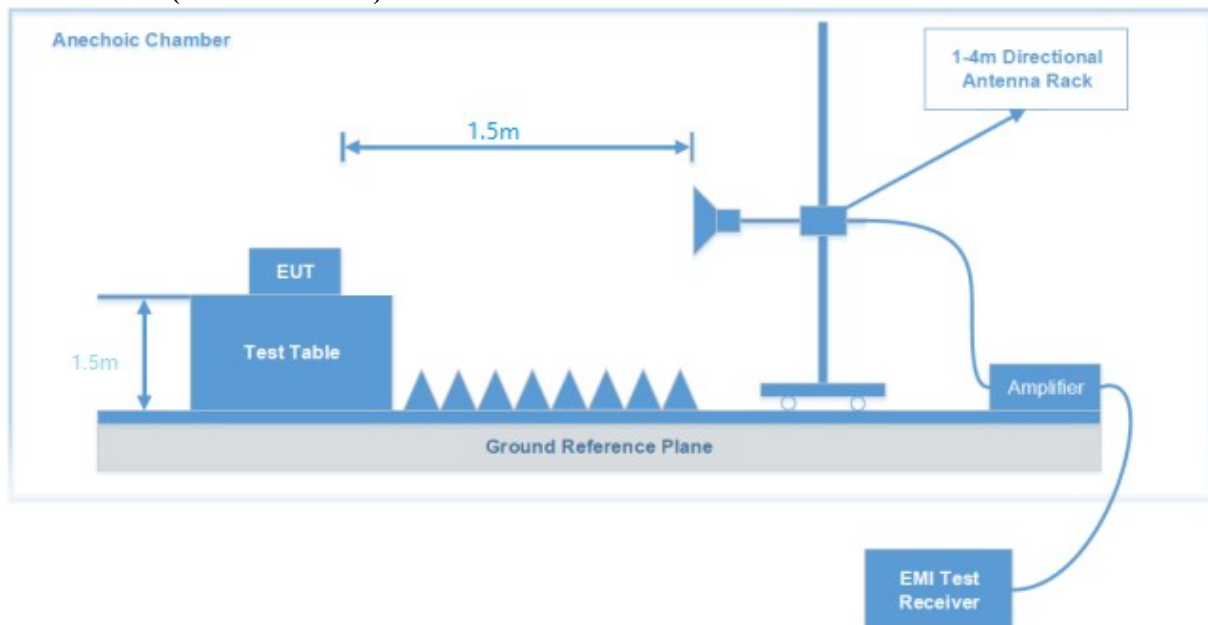
Trace: 1

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.15	12.20	20.84	33.04	55.93	22.89	Neutral	Average
0.15	31.28	20.84	52.12	65.93	13.81	Neutral	QP
0.18	6.93	20.97	27.90	54.57	26.67	Neutral	Average
0.18	25.67	20.97	46.64	64.57	17.93	Neutral	QP
0.19	0.72	21.02	21.74	53.94	32.20	Neutral	Average
0.19	23.58	21.02	44.60	63.94	19.34	Neutral	QP
0.23	0.87	20.96	21.83	52.58	30.75	Neutral	Average
0.23	20.52	20.96	41.48	62.58	21.10	Neutral	QP
0.25	-1.98	20.88	18.90	51.67	32.77	Neutral	Average
0.25	16.75	20.88	37.63	61.67	24.04	Neutral	QP
0.31	0.14	20.71	20.85	50.08	29.23	Neutral	Average
0.31	12.75	20.71	33.46	60.08	26.62	Neutral	QP

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS**Applicable Standard**

FCC §15.247 (d); §15.209; §15.205;

EUT Setup**9 kHz-30MHz:****30MHz -1 GHz:**

Above 1GHz (1 GHz~18 GHz)**Above 1GHz (18 GHz~25GHz)**

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

Note: For Radiated test 18-25GHz, which was performed at 1.5 meters distance, according to C63.10, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3 meters to 1.5 meters.

Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]}) \text{ dB} = 6.0 \text{ dB}$.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Below 1GHz:

Frequency Range	RBW	VBW	Measurement
9 kHz – 150 kHz	200Hz	1 kHz	PK
	200Hz	/	QP/AV
150 kHz – 30 MHz	10 kHz	30 kHz	PK
	9kHz	/	QP/AV
30 MHz – 1000 MHz	100 kHz	300 kHz	PK
	120kHz	/	QP

Above 1GHz:

Duty Cycle	RBW	VBW	Measurement
Any	1MHz	3MHz	PK
>98%	1MHz	10Hz	AV
<98%	1MHz	≥1/T	AV

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable. The report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground parallel) unless the margin is greater than 20 dB, then the following statement shall be made: “all emissions were greater than 20 dB below the limit.”

Level & Margin Calculation

The Level is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\begin{aligned}\text{Factor (dB/m)} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)} \\ \text{Level (dB}\mu\text{V/m)} &= \text{Reading (dB}\mu\text{V)} + \text{Factor (dB/m)}\end{aligned}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Level (dB}\mu\text{V/m)}$$

Test Data

Please refer to the below table and plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Frequency Range:	Below 1 GHz	Above 1 GHz
Temperature:	21.3°C	21.3°C~23.9°C
Relative Humidity:	51 %	51 %~54%
ATM Pressure:	101.1kPa	101kPa~101.1kPa
Test Date:	2024-08-10~2024-08-12	2024-07-01~2024-09-21
Test Engineer:	Wlif Wu	Wlif Wu

1) 9 kHz~30MHz

EUT operation mode: Transmitting in Wifi 802.11b low channel (worst case)

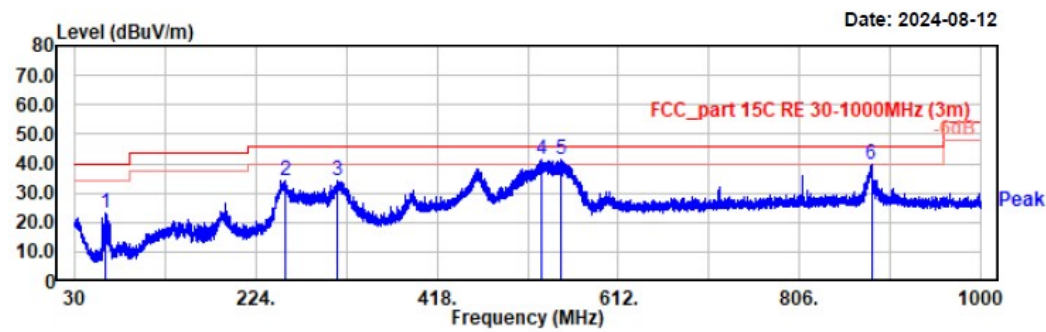
Pre-scan in parallel, ground-parallel and perpendicular of orientation of loop antenna, the amplitude of spurious emissions attenuated is more than 20 dB below the permissible value, which is not required to be report.

2) 30 MHz-1GHz (Worst case)

After pre-scan 802.11b/g/n20/n40 mode, the worst case is 802.11b 2412MHz.

Project No.: 2407W89604E-RF
Test Mode: 802.11b 2412MHz
EUT Model: SLM927
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
62.88	40.27	-17.37	22.90	40.00	17.10	Horizontal	Peak
255.14	45.53	-11.36	34.17	46.00	11.83	Horizontal	Peak
311.79	43.12	-8.97	34.15	46.00	11.85	Horizontal	Peak
529.74	44.86	-3.26	41.60	46.00	4.40	Horizontal	QP
551.38	43.96	-2.71	41.25	46.00	4.75	Horizontal	QP
883.12	37.19	2.37	39.56	46.00	6.44	Horizontal	QP

Project No.: 2407W89604E-RF

Test Mode: 802.11b 2412MHz

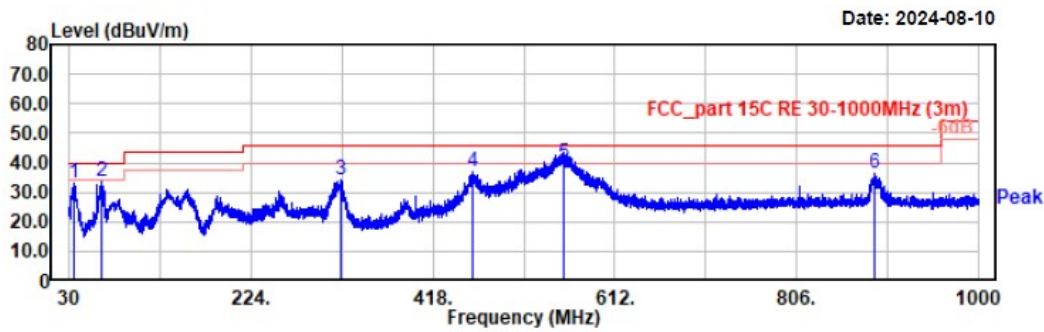
EUT Model: SLM927

Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/101.1kPa

Tested by: Wlif Wu

Power Source: AC 120V/60Hz



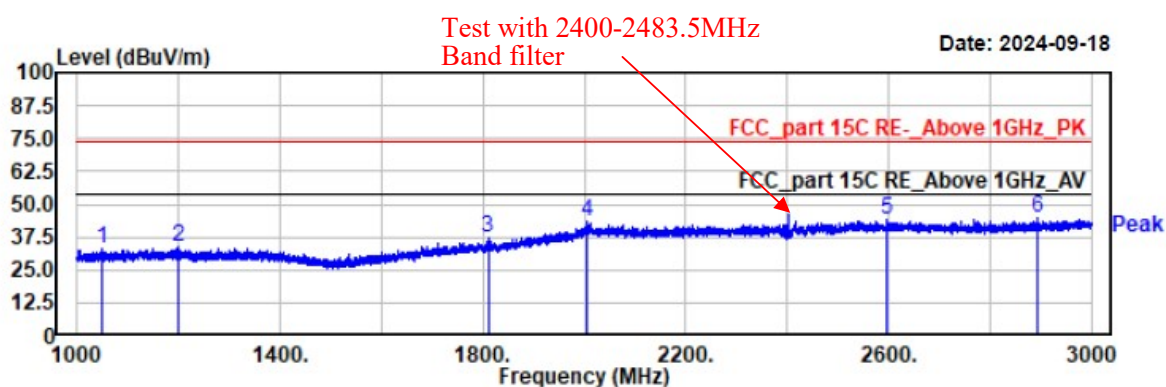
3) 1GHz~3GHz (Worst case)

For BLE:

After pre-scan BLE 1M/2M mode, the worst case is BLE 2M.

Project No.: 2407W89604E-RF
Test Mode: BLE 2M 2402
EUT Model: SLM927
Test distance: 3m

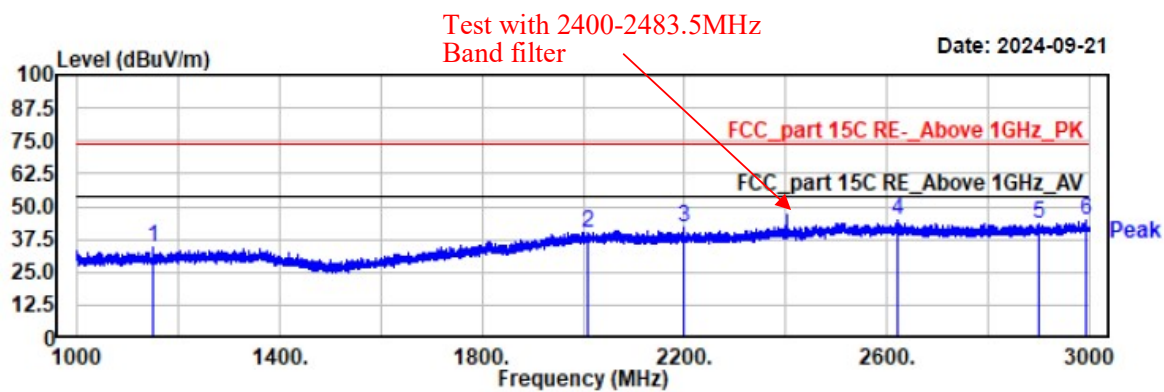
Temp/Humi/ATM: 22.8°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1049.80	50.17	-17.04	33.13	74.00	40.87	Horizontal	Peak
1200.40	50.14	-16.05	34.09	74.00	39.91	Horizontal	Peak
1810.40	48.84	-11.51	37.33	74.00	36.67	Horizontal	Peak
2005.00	50.38	-6.68	43.70	74.00	30.30	Horizontal	Peak
2595.40	47.18	-3.31	43.87	74.00	30.13	Horizontal	Peak
2895.00	49.54	-4.40	45.14	74.00	28.86	Horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: BLE 2M 2402
EUT Model: SLM927
Test distance: 3m

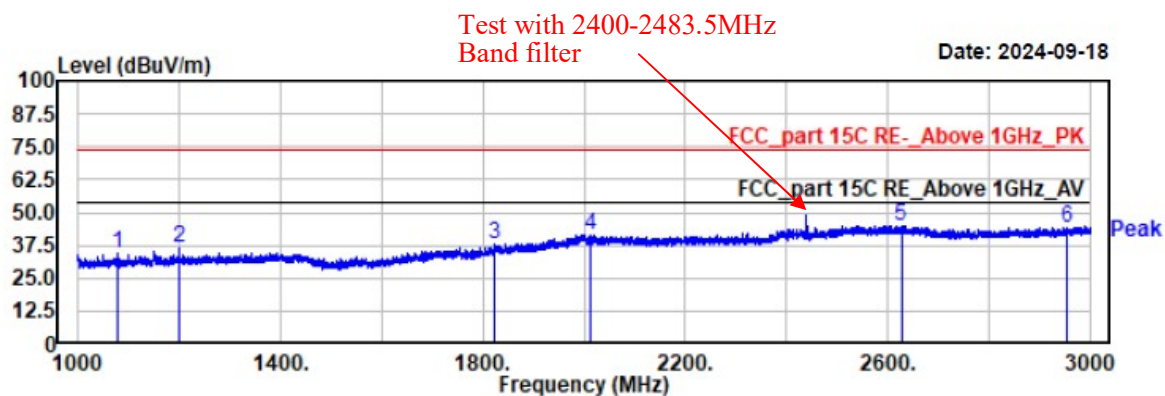
Temp/Humi/ATM: 22.8°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1150.00	50.93	-16.39	34.54	74.00	39.46	vertical	Peak
2009.20	46.88	-6.61	40.27	74.00	33.73	vertical	Peak
2197.80	48.11	-6.27	41.84	74.00	32.16	vertical	Peak
2620.00	47.97	-3.33	44.64	74.00	29.36	vertical	Peak
2899.80	47.99	-4.39	43.60	74.00	30.40	vertical	Peak
2992.80	48.87	-4.04	44.83	74.00	29.17	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: BLE 2M 2440
EUT Model: SLM927
Test distance: 3m

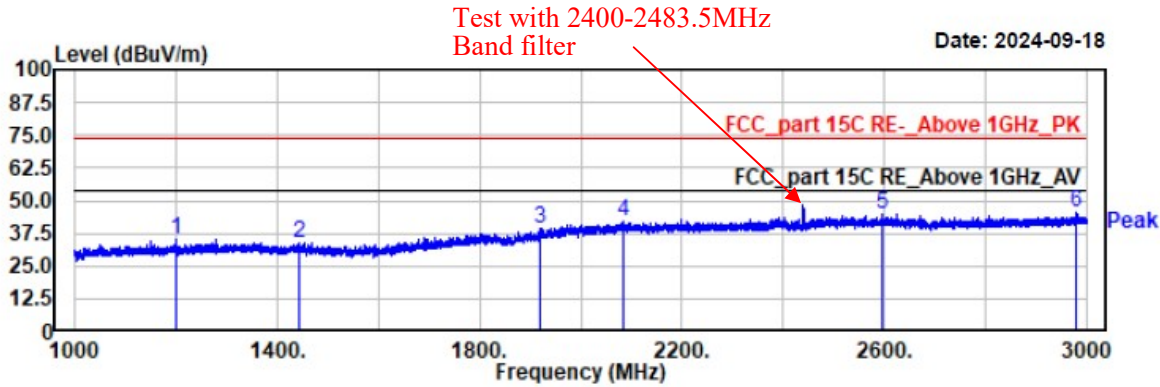
Temp/Humi/ATM: 22.8°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1078.20	51.16	-16.75	34.41	74.00	39.59	Horizontal	Peak
1200.60	52.32	-16.04	36.28	74.00	37.72	Horizontal	Peak
1822.40	49.60	-11.45	38.15	74.00	35.85	Horizontal	Peak
2014.00	48.01	-6.53	41.48	74.00	32.52	Horizontal	Peak
2626.60	48.45	-3.33	45.12	74.00	28.88	Horizontal	Peak
2955.80	48.42	-4.18	44.24	74.00	29.76	Horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: BLE 2M 2440
EUT Model: SLM927
Test distance: 3m

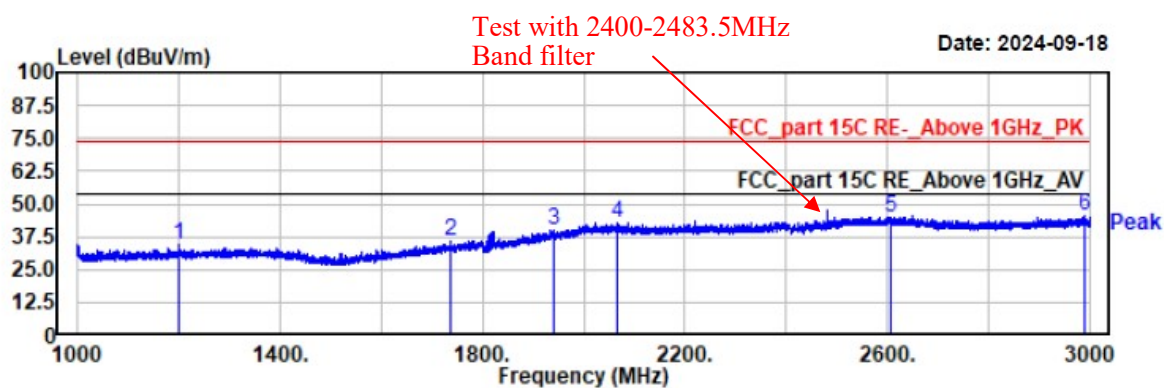
Temp/Humi/ATM: 22.8°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1199.60	51.35	-16.05	35.30	74.00	38.70	vertical	Peak
1443.80	50.98	-16.93	34.05	74.00	39.95	vertical	Peak
1920.00	48.80	-9.25	39.55	74.00	34.45	vertical	Peak
2085.00	48.48	-6.50	41.98	74.00	32.02	vertical	Peak
2596.80	48.20	-3.31	44.89	74.00	29.11	vertical	Peak
2978.80	49.43	-4.09	45.34	74.00	28.66	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: 2M-2480
EUT Model: SLM927
Test distance: 3m

Temp/Humi/ATM: 22.8°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



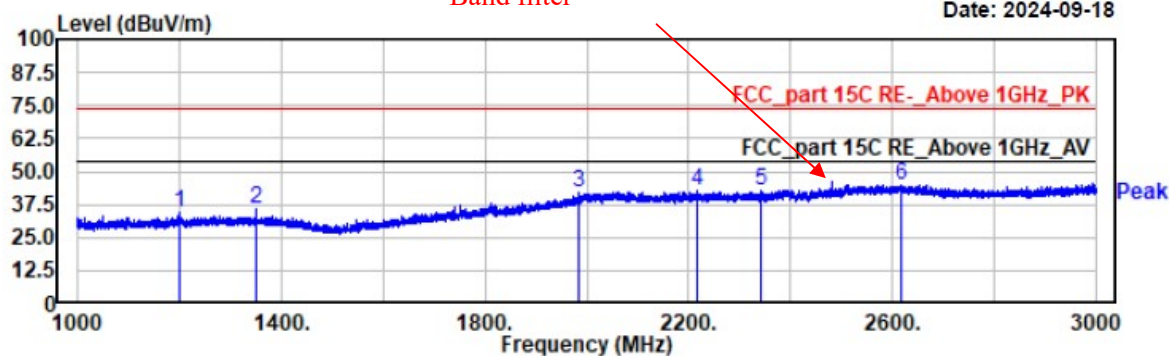
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.20	50.36	-16.05	34.31	74.00	39.69	horizontal	Peak
1737.20	48.68	-13.03	35.65	74.00	38.35	horizontal	Peak
1939.80	48.87	-8.75	40.12	74.00	33.88	horizontal	Peak
2065.40	49.05	-6.22	42.83	74.00	31.17	horizontal	Peak
2607.00	48.38	-3.30	45.08	74.00	28.92	horizontal	Peak
2989.60	49.86	-4.06	45.80	74.00	28.20	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: BLE 2M 2480
EUT Model: SLM927
Test distance: 3m

Temp/Humi/ATM: 22.8°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Test with 2400-2483.5MHz
Band filter

Date: 2024-09-18



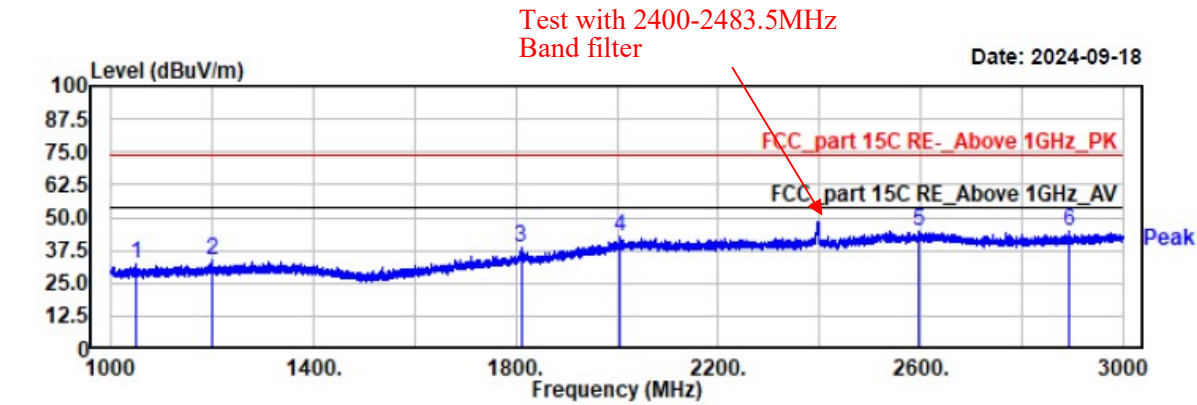
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.00	50.48	-16.05	34.43	74.00	39.57	vertical	Peak
1350.20	51.19	-15.43	35.76	74.00	38.24	vertical	Peak
1982.40	49.60	-7.36	42.24	74.00	31.76	vertical	Peak
2216.60	48.87	-6.25	42.62	74.00	31.38	vertical	Peak
2343.60	48.59	-5.91	42.68	74.00	31.32	vertical	Peak
2616.00	48.38	-3.32	45.06	74.00	28.94	vertical	Peak

For 2.4G Wi-Fi:

After pre-scan 802.11b/g/n20/n40 mode, the worst case is 802.11b.

Project No.:2407W89604E-RF
Test Mode: 802.11b 2412
EUT Model:SLM927
Test distance: 3m

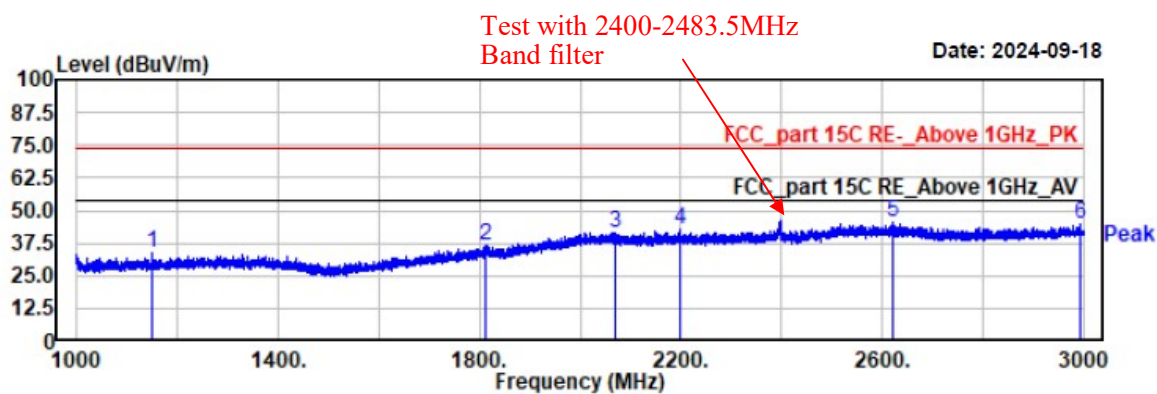
Temp/Humi/ATM: 22.8°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source:AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1049.80	49.17	-17.04	32.13	74.00	41.87	horizontal	Peak
1200.40	50.14	-16.05	34.09	74.00	39.91	horizontal	Peak
1810.40	49.84	-11.51	38.33	74.00	35.67	horizontal	Peak
2005.00	49.38	-6.68	42.70	74.00	31.30	horizontal	Peak
2595.40	48.18	-3.31	44.87	74.00	29.13	horizontal	Peak
2895.00	49.54	-4.40	45.14	74.00	28.86	horizontal	Peak

Project No.:2407W89604E-RF
Test Mode: 802.11b 2412
EUT Model:SLM927
Test distance: 3m

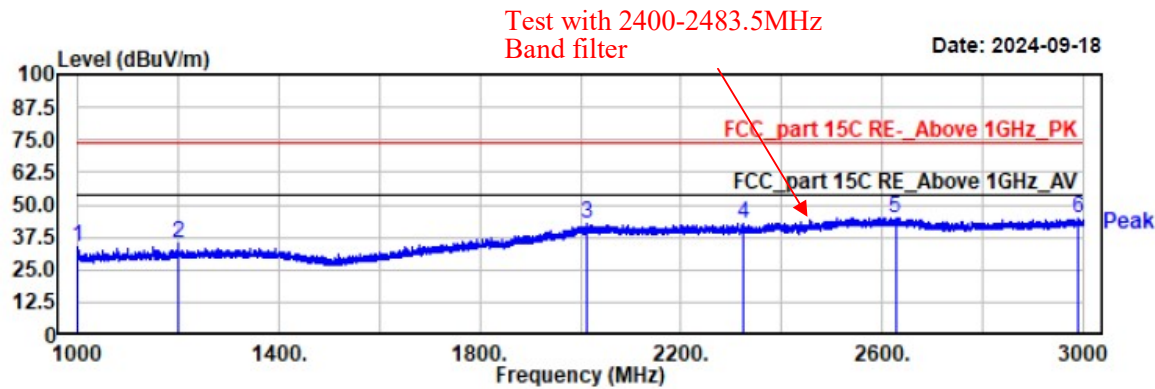
Temp/Humi/ATM: 22.8°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source:AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1150.00	49.93	-16.39	33.54	74.00	40.46	vertical	Peak
1811.80	48.33	-11.50	36.83	74.00	37.17	vertical	Peak
2068.40	47.84	-6.25	41.59	74.00	32.41	vertical	Peak
2197.80	49.11	-6.27	42.84	74.00	31.16	vertical	Peak
2620.00	48.97	-3.33	45.64	74.00	28.36	vertical	Peak
2992.80	48.87	-4.04	44.83	74.00	29.17	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: 802.11b 2437MHz
EUT Model: SLM927
Test distance: 3m

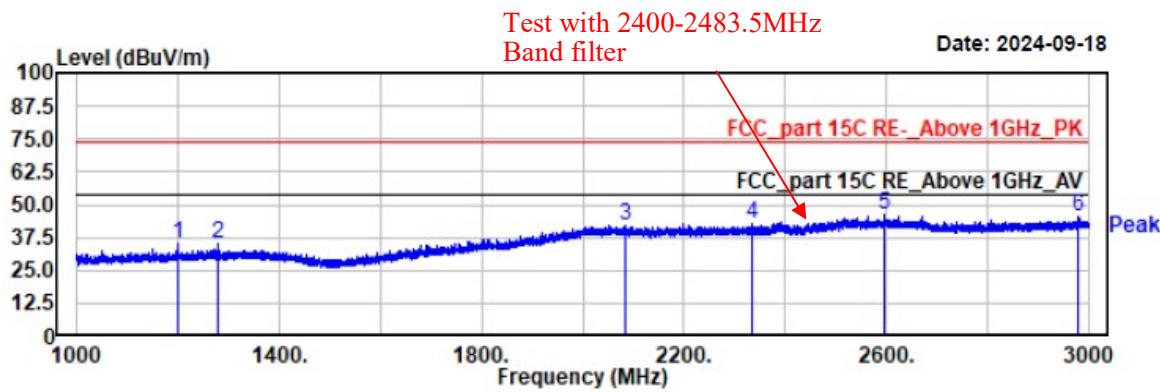
Temp/Humi/ATM: 23.5°C/54%/100.5kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1000.60	51.37	-17.24	34.13	74.00	39.87	Horizontal	Peak
1200.60	51.32	-16.04	35.28	74.00	38.72	Horizontal	Peak
2014.00	49.01	-6.53	42.48	74.00	31.52	Horizontal	Peak
2323.80	49.01	-6.10	42.91	74.00	31.09	Horizontal	Peak
2626.60	48.45	-3.33	45.12	74.00	28.88	Horizontal	Peak
2991.00	48.54	-4.05	44.49	74.00	29.51	Horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: 802.11b 2437MHz
EUT Model: SLM927
Test distance: 3m

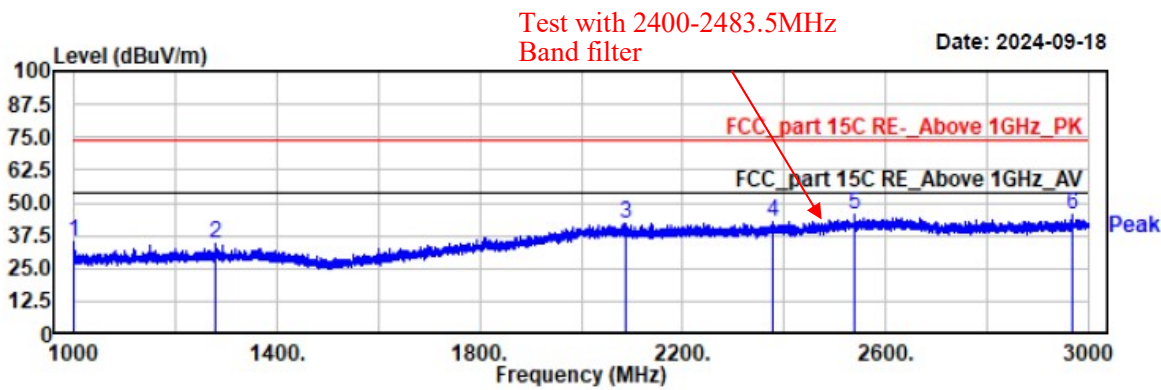
Temp/Humi/ATM: 23.5°C/54%/100.5kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.60	51.25	-16.04	35.21	74.00	38.79	vertical	Peak
1279.60	50.52	-15.51	35.01	74.00	38.99	vertical	Peak
2085.00	48.48	-6.50	41.98	74.00	32.02	vertical	Peak
2333.40	48.62	-6.02	42.60	74.00	31.40	vertical	Peak
2596.80	49.20	-3.31	45.89	74.00	28.11	vertical	Peak
2978.80	49.43	-4.09	45.34	74.00	28.66	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: 802.11b 2462MHz
EUT Model: SLM927
Test distance: 3m

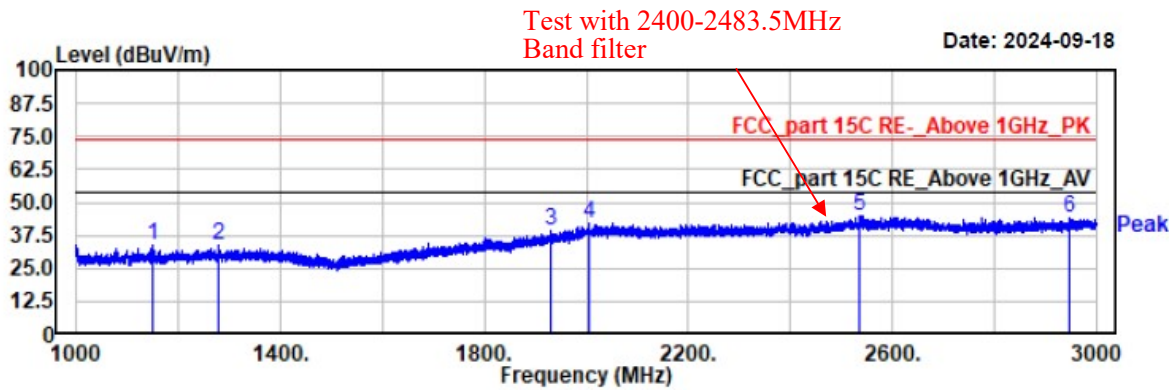
Temp/Humi/ATM: 23.5°C/54%/100.5kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1000.00	52.27	-17.24	35.03	74.00	38.97	Horizontal	Peak
1280.40	49.83	-15.50	34.33	74.00	39.67	Horizontal	Peak
2086.60	48.79	-6.53	42.26	74.00	31.74	Horizontal	Peak
2377.80	48.55	-5.49	43.06	74.00	30.94	Horizontal	Peak
2539.60	48.92	-3.61	45.31	74.00	28.69	Horizontal	Peak
2966.80	49.77	-4.14	45.63	74.00	28.37	Horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: 802.11b 2462MHz
EUT Model: SLM927
Test distance: 3m

Temp/Humi/ATM: 23.5°C/54%/100.5kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1150.00	50.19	-16.39	33.80	74.00	40.20	vertical	Peak
1280.00	49.45	-15.51	33.94	74.00	40.06	vertical	Peak
1928.80	48.24	-9.03	39.21	74.00	34.79	vertical	Peak
2003.80	48.96	-6.69	42.27	74.00	31.73	vertical	Peak
2537.00	48.43	-3.64	44.79	74.00	29.21	vertical	Peak
2947.60	48.69	-4.22	44.47	74.00	29.53	vertical	Peak

4) 3GHz~18GHz (Worst case)**For BLE:**

After pre-scan BLE 1M/2M mode, the worst case is BLE 2M 2402MHz.

Project No.: 2407W89602E-RF

Test Mode: BLE 2M 2402MHz

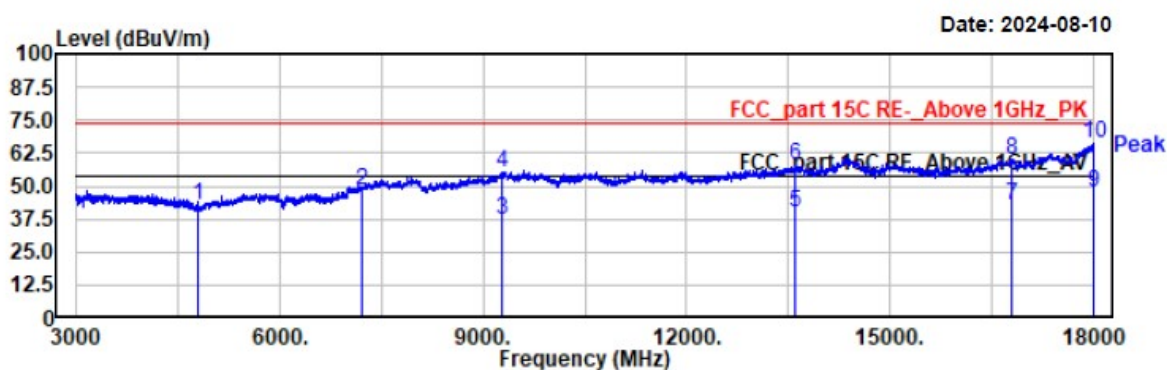
EUT Model: SLM927

Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/101.1kPa

Tested by: Wlif Wu

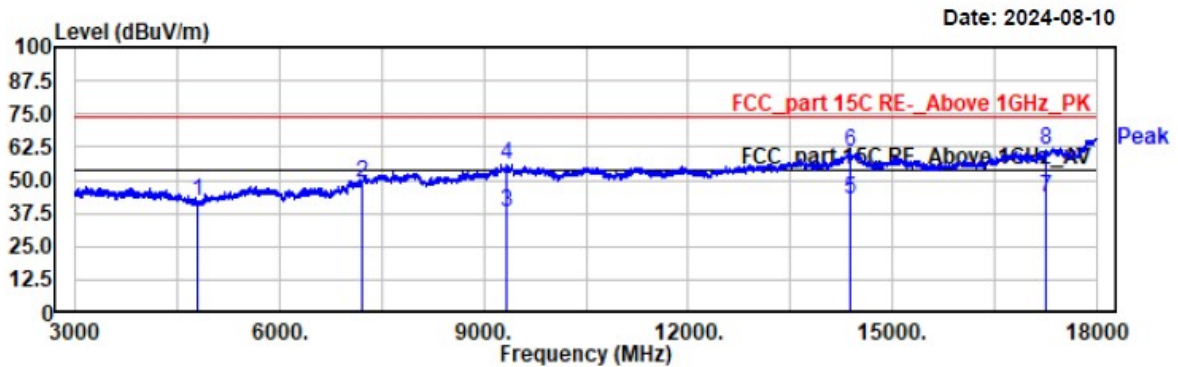
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.60	44.61	-1.51	43.10	74.00	30.90	horizontal	Peak
7206.00	43.87	4.53	48.40	74.00	25.60	horizontal	Peak
9275.60	29.52	7.98	37.50	54.00	16.50	horizontal	Average
9275.60	47.26	7.98	55.24	74.00	18.76	horizontal	Peak
13607.20	28.49	11.55	40.04	54.00	13.96	horizontal	Average
13607.20	46.06	11.55	57.61	74.00	16.39	horizontal	Peak
16793.00	28.95	13.57	42.52	54.00	11.48	horizontal	Average
16793.00	46.61	13.57	60.18	74.00	13.82	horizontal	Peak
17996.60	28.83	19.00	47.83	54.00	6.17	horizontal	Average
17996.60	47.44	19.00	66.44	74.00	7.56	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: BLE 2M 2402MHz
EUT Model: SLM927
Test distance: 3m

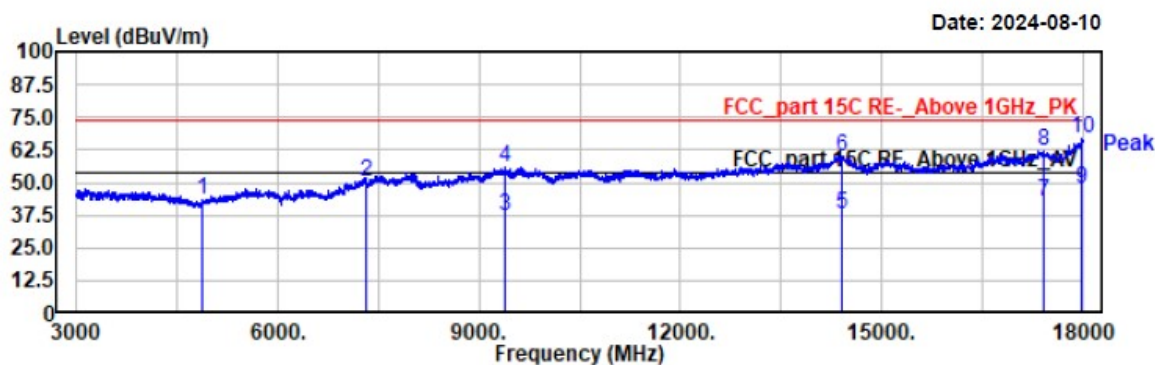
Temp/Humi/ATM: 21.3°C/51%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.60	43.50	-1.51	41.99	74.00	32.01	vertical	Peak
7206.00	44.27	4.53	48.80	74.00	25.20	vertical	Peak
9323.20	29.67	8.34	38.01	54.00	15.99	vertical	Average
9323.20	47.77	8.34	56.11	74.00	17.89	vertical	Peak
14382.40	29.34	13.23	42.57	54.00	11.43	vertical	Average
14382.40	47.53	13.23	60.76	74.00	13.24	vertical	Peak
17258.80	29.34	14.04	43.38	54.00	10.62	vertical	Average
17258.80	47.23	14.04	61.27	74.00	12.73	vertical	Peak
18000.00	28.67	19.02	47.69	54.00	6.31	vertical	Average
18000.00	47.37	19.02	66.39	74.00	7.61	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: BLE 2M 2440MHz
EUT Model: SLM927
Test distance: 3m

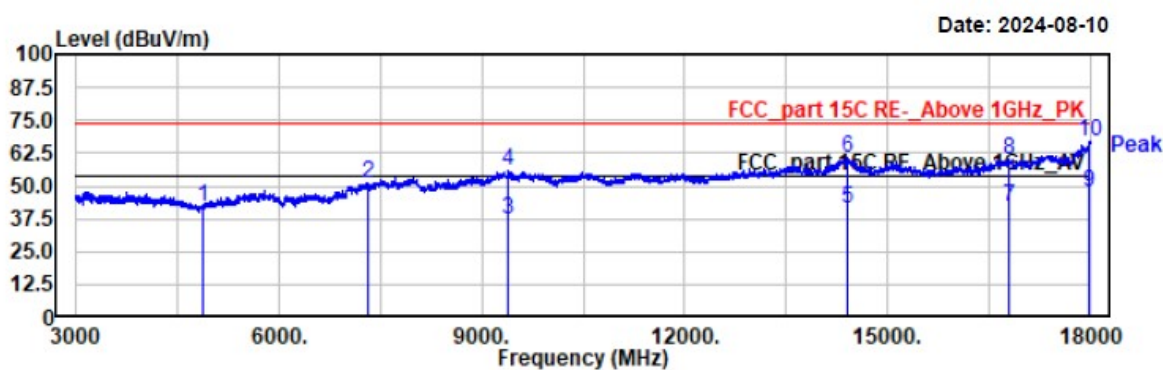
Temp/Humi/ATM: 21.3°C/51%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4880.00	44.09	-0.71	43.38	74.00	30.62	horizontal	Peak
7320.00	45.11	5.02	50.13	74.00	23.87	horizontal	Peak
9374.20	28.78	8.77	37.55	54.00	16.45	horizontal	Average
9374.20	46.99	8.77	55.76	74.00	18.24	horizontal	Peak
14409.60	27.26	10.59	37.85	54.00	16.15	horizontal	Average
14409.60	46.95	13.15	60.10	74.00	13.90	horizontal	Peak
17425.40	28.12	14.32	42.44	54.00	11.56	horizontal	Average
17425.40	47.61	14.32	61.93	74.00	12.07	horizontal	Peak
17979.60	29.05	18.86	47.91	54.00	6.09	horizontal	Average
17979.60	48.24	18.86	67.10	74.00	6.90	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: BLE 2M 2440MHz
EUT Model: SLM927
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4880.00	42.58	-0.71	41.87	74.00	32.13	vertical	Peak
7320.60	46.03	5.02	51.05	74.00	22.95	vertical	Peak
9384.40	28.18	8.88	37.06	54.00	16.94	vertical	Average
9384.40	46.72	8.88	55.60	74.00	18.40	vertical	Peak
14413.00	28.18	13.16	41.34	54.00	12.66	vertical	Average
14413.00	47.52	13.16	60.68	74.00	13.32	vertical	Peak
16793.00	28.32	13.57	41.89	54.00	12.11	vertical	Average
16793.00	46.54	13.57	60.11	74.00	13.89	vertical	Peak
17986.40	28.74	18.91	47.65	54.00	6.35	vertical	Average
17986.40	48.24	18.91	67.15	74.00	6.85	vertical	Peak

Project No.: 2407W89604E-RF

Test Mode: BLE 2M 2480MHz

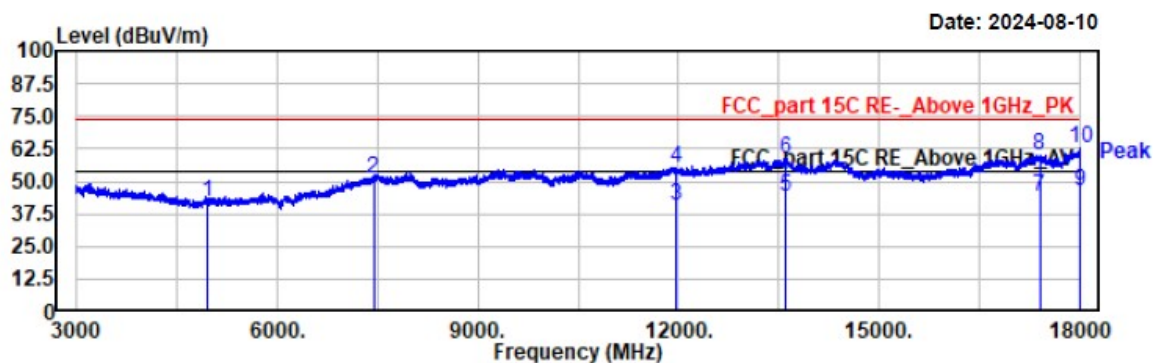
EUT Model: SLM927

Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/101.1kPa

Tested by: Wlif Wu

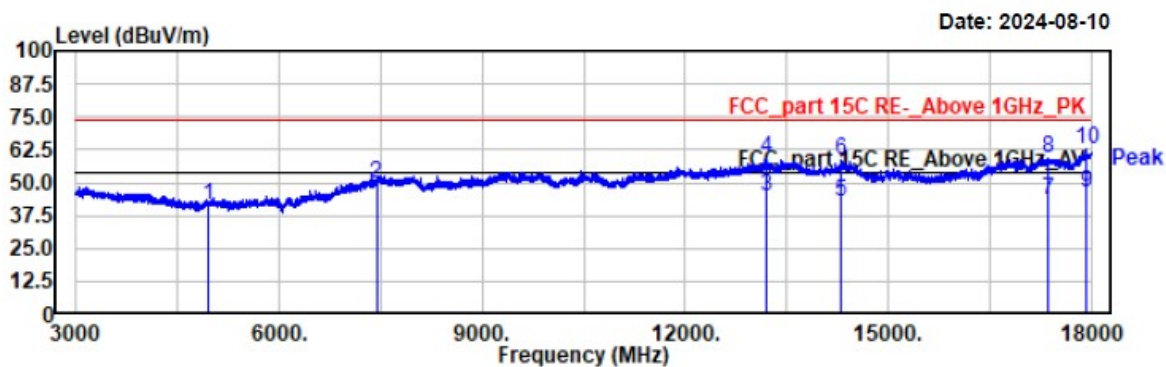
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	39.38	2.86	42.24	74.00	31.76	horizontal	Peak
7440.00	40.83	10.40	51.23	74.00	22.77	horizontal	Peak
11971.80	26.59	13.79	40.38	54.00	13.62	horizontal	Average
11971.80	41.54	13.79	55.33	74.00	18.67	horizontal	Peak
13600.40	28.77	15.62	44.39	54.00	9.61	horizontal	Average
13600.40	43.29	15.62	58.91	74.00	15.09	horizontal	Peak
17401.60	29.34	15.04	44.38	54.00	9.62	horizontal	Average
17401.60	44.85	15.04	59.89	74.00	14.11	horizontal	Peak
17996.60	28.90	17.09	45.99	54.00	8.01	horizontal	Average
17996.60	45.59	17.09	62.68	74.00	11.32	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: BLE 2M 2480MHz
EUT Model: SLM927
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



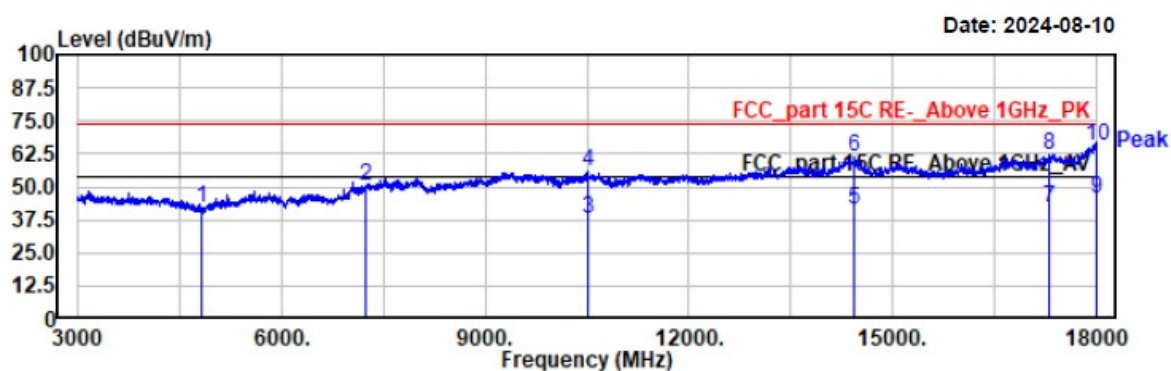
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	38.83	2.86	41.69	74.00	32.31	vertical	Peak
7440.00	39.47	10.40	49.87	74.00	24.13	vertical	Peak
13192.40	28.78	15.80	44.58	54.00	9.42	vertical	Average
13192.40	43.21	15.80	59.01	74.00	14.99	vertical	Peak
14311.00	27.45	15.17	42.62	54.00	11.38	vertical	Average
14311.00	43.77	15.17	58.94	74.00	15.06	vertical	Peak
17359.10	28.47	15.07	43.54	54.00	10.46	vertical	Average
17359.10	44.24	15.07	59.31	74.00	14.69	vertical	Peak
17923.50	29.01	16.86	45.87	54.00	8.13	vertical	Average
17923.50	45.71	16.86	62.57	74.00	11.43	vertical	Peak

For Wi-Fi:

After pre-scan 802.11b/g/n20/n40 mode, the worst case is 802.11b.

Project No.: 2407W89604E-RF
Test Mode: 802.11b 2412MHz
EUT Model: SLM927
Test distance: 3m

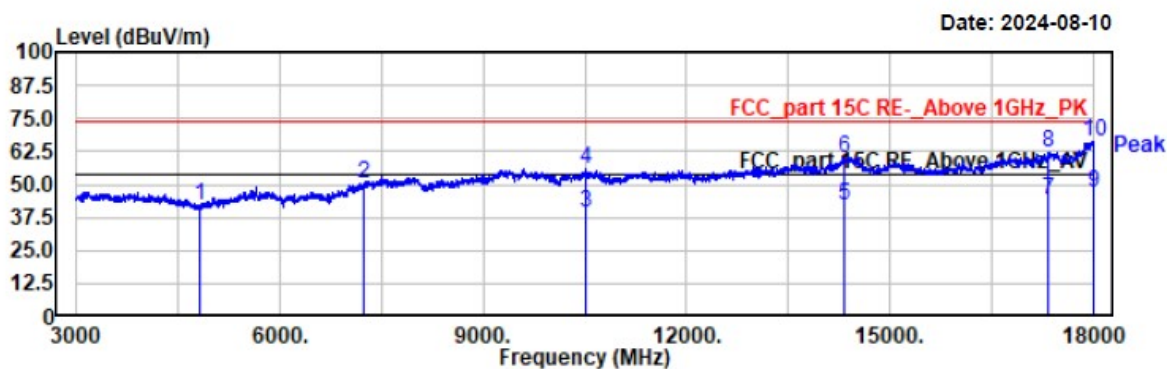
Temp/Humi/ATM: 21.3°C/51%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	43.48	-1.48	42.00	74.00	32.00	horizontal	Peak
7236.00	46.03	4.58	50.61	74.00	23.39	horizontal	Peak
10516.60	28.66	9.44	38.10	54.00	15.90	horizontal	Average
10516.60	46.21	9.44	55.65	74.00	18.35	horizontal	Peak
14440.20	28.33	13.18	41.51	54.00	12.49	horizontal	Average
14440.20	48.04	13.18	61.22	74.00	12.78	horizontal	Peak
17299.60	27.99	14.21	42.20	54.00	11.80	horizontal	Average
17299.60	47.78	14.21	61.99	74.00	12.01	horizontal	Peak
17996.60	26.80	19.00	45.80	54.00	8.20	horizontal	Average
17996.60	46.68	19.00	65.68	74.00	8.32	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: 802.11b 2412MHz
EUT Model: SLM927
Test distance: 3m

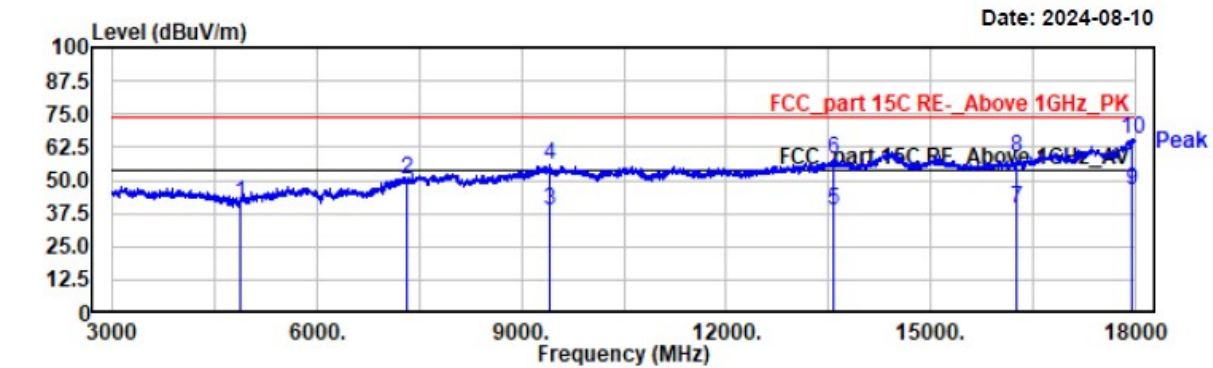
Temp/Humi/ATM: 21.3°C/51%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4824.00	43.59	-1.48	42.11	74.00	31.89	vertical	Peak
7236.00	45.61	4.58	50.19	74.00	23.81	vertical	Peak
10526.80	29.88	9.39	39.27	54.00	14.73	vertical	Average
10526.80	46.31	9.39	55.70	74.00	18.30	vertical	Peak
14334.80	28.77	13.44	42.21	54.00	11.79	vertical	Average
14334.80	46.65	13.44	60.09	74.00	13.91	vertical	Peak
17343.80	29.90	14.24	44.14	54.00	9.86	vertical	Average
17343.80	47.74	14.24	61.98	74.00	12.02	vertical	Peak
17996.60	27.66	19.00	46.66	54.00	7.34	vertical	Peak
17996.60	47.40	19.00	66.40	74.00	7.60	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: 802.11b 2437MHz
EUT Model: SLM927
Test distance: 3m

Temp/Humi/ATM: 21.3°C/51%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4872.60	42.50	-0.89	41.61	74.00	32.39	horizontal	Peak
7311.00	45.09	5.07	50.16	74.00	23.84	horizontal	Peak
9411.60	29.91	8.89	38.80	54.00	15.20	horizontal	Average
9411.60	47.29	8.89	56.18	74.00	17.82	horizontal	Peak
13576.60	27.17	11.62	38.79	54.00	15.21	horizontal	Average
13576.60	46.52	11.62	58.14	74.00	15.86	horizontal	Peak
16259.20	28.96	10.58	39.54	54.00	14.46	horizontal	Average
16259.20	47.90	10.58	58.48	74.00	15.52	horizontal	Peak
17962.60	27.22	18.72	45.94	54.00	8.06	horizontal	Average
17962.60	46.92	18.72	65.64	74.00	8.36	horizontal	Peak