



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-01	
Report Date: 2024-09-24	
Reviewed By: Stein Peng	<i>Stein Peng</i>
Approved By: Miles Chen	<i>Miles Chen</i>
Prepared By: Bay Area Compliance Laboratories Corp. (Xiamen) Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen Tel: +86-592-3200111 www.baclcorp.com.cn	

TABLE OF CONTENTS

REPORT REVISION HISTORY	3
GENERAL INFORMATION	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
TEST METHODOLOGY	4
TEST FACILITY	4
MEASUREMENT UNCERTAINTY	5
SYSTEM TEST CONFIGURATION	6
TEST MODE AND VOLTAGE.....	6
DESCRIPTION OF TEST CONFIGURATION	6
★EUT EXERCISE SOFTWARE	6
SPECIAL ACCESSORIES.....	6
EQUIPMENT MODIFICATIONS	6
SUPPORT EQUIPMENT LIST AND DETAILS	7
EXTERNAL I/O CABLE.....	7
BLOCK DIAGRAM OF TEST SETUP	7
SUMMARY OF TEST RESULTS	9
TEST EQUIPMENT LIST	10
FCC §15.203 – ANTENNA REQUIREMENT	11
APPLICABLE STANDARD	11
ANTENNA CONNECTOR CONSTRUCTION	11
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	12
APPLICABLE STANDARD	12
TEST SYSTEM SETUP.....	12
EMI TEST RECEIVER SETUP.....	12
TEST PROCEDURE	12
TEST DATA	13
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS	16
APPLICABLE STANDARD	16
TEST SYSTEM SETUP.....	16
EMI TEST RECEIVER SETUP.....	18
TEST PROCEDURE	18
LEVEL & MARGIN CALCULATION	18
TEST DATA	19
FCC §15.247(b) (1) – SPOT CHECK PEAK OUTPUT POWER MEASUREMENT	48
APPLICABLE STANDARD	48
EUT SETUP.....	48
TEST PROCEDURE	48
TEST DATA	49
EUT PHOTOGRAPHS	54
TEST SETUP PHOTOGRAPHS	55

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2407W89604E-RF-01	R1V1	2024-09-24	Class II Permissive Change Report

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name:	Smart Module
Tested Model:	SLM927
★Power Supply:	DC 3.8 V
Maximum Output Power:	13.70dBm
RF Function:	Classic BT
Operating Band/Frequency:	2402-2480 MHz
Channel Number:	79
Channel Separation:	1 MHz
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Type:	FPC Antenna
★Maximum Antenna Gain:	0.84 dBi
EUT Received Status:	Good

Note:

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 test report is prepared for *Fujian LANDI Commercial Equipment Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine Compliance with FCC Part 15, Subpart C, 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 558074 D01 15.247 Meas Guidance v05r02.

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: AC 120V/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

Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403
...
...	...	78	2480
39	2441	/	/

EUT was tested with Channel 0, 39 and 78.

★EUT Exercise Software

BT test in the engineer mode.

RF Test Tool: QRCT4

Test Modes	Power Level Setting		
	Lowest Channel	Middle Channel	Highest Channel
GFSK	9	9	9
$\pi/4$ -DQPSK	9	9	9
8DPSK	9	9	9

Note: The power level was declared by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

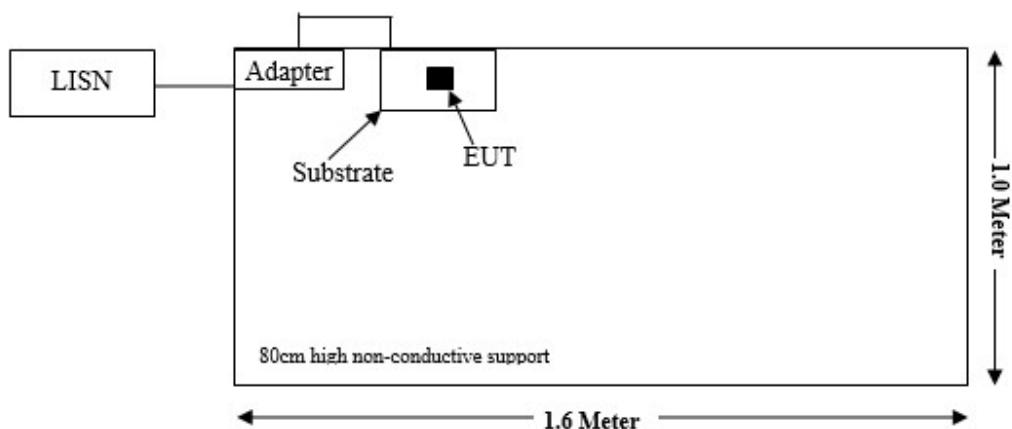
Manufacturer	Description	Model	Serial Number
LITEON	AC ADAPTER	PA-1650-90	NSW26604
LIANDI	Substrate	C20_C_V100	245075

External I/O Cable

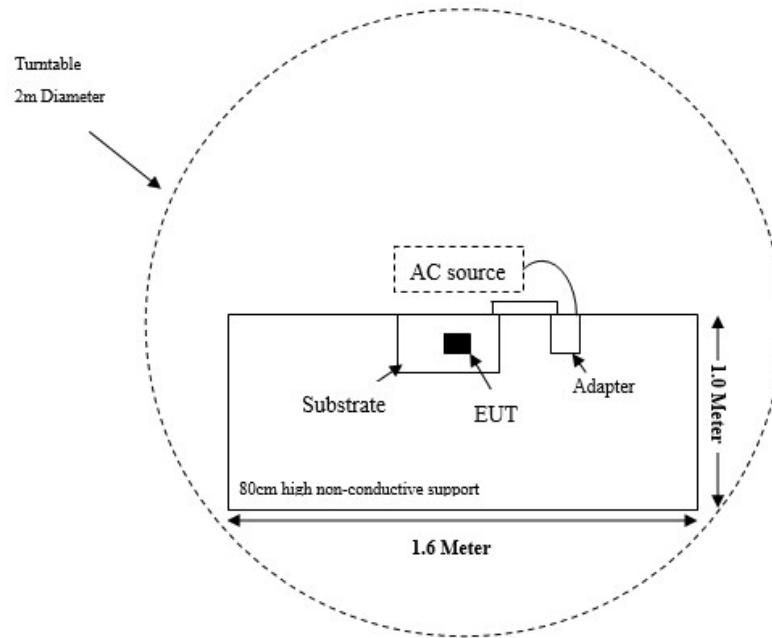
Cable Description	Length (m)	From Port	To
POWER CABLE	1.2	EUT	ADAPTER
POWER CABLE	1.0	ADAPTER	SOCKET

Block Diagram of Test Setup

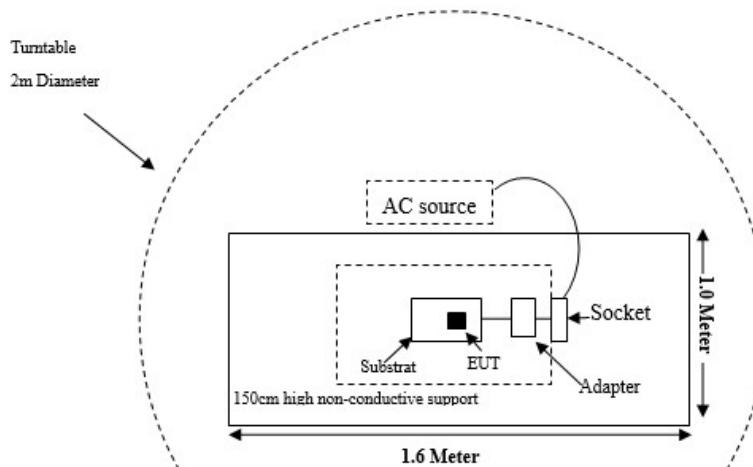
Conducted Emission:



Radiated Emission:
Below 1GHz



Above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result	Remark
§15.203	Antenna Requirement	Compliant	
§15.207(a)	AC Line Conducted Emissions	Compliant	
§15.205, §15.209 & §15.247(d)	Radiated Emissions	Compliant	
§15.247(a)(1)	20 dB Emission Bandwidth	-	See Note 2
§15.247(a)(1)	Channel Separation Test	-	See Note 2
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	-	See Note 2
§15.247(a)(1)(iii)	Quantity of hopping channel Test	-	See Note 2
§15.247(b)(1)	Peak Output Power Measurement	Reporting	
§15.247(d)	Band edges		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: FR372809A

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

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 FCC § 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 use 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 for Bluetooth, which was permanently attached and the antenna gain is 0.84 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

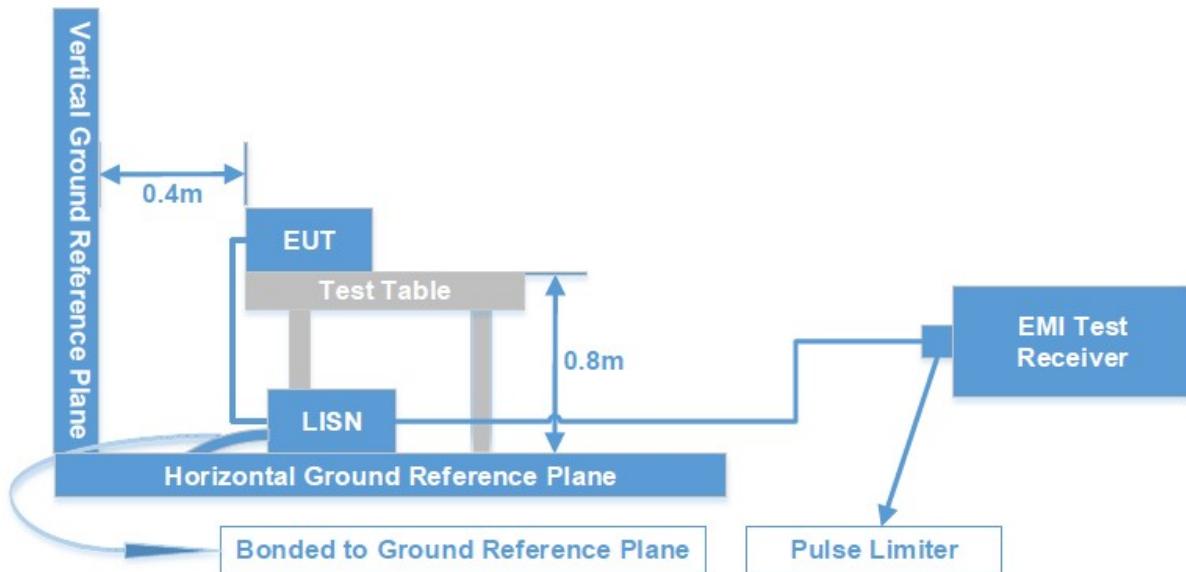
Result: Compliance

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:

$$\begin{aligned}\text{Factor (dB)} &= \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)} \\ \text{Level (dB}\mu\text{V)} &= \text{Reading (dB}\mu\text{V)} + \text{Factor (dB)}\end{aligned}$$

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:

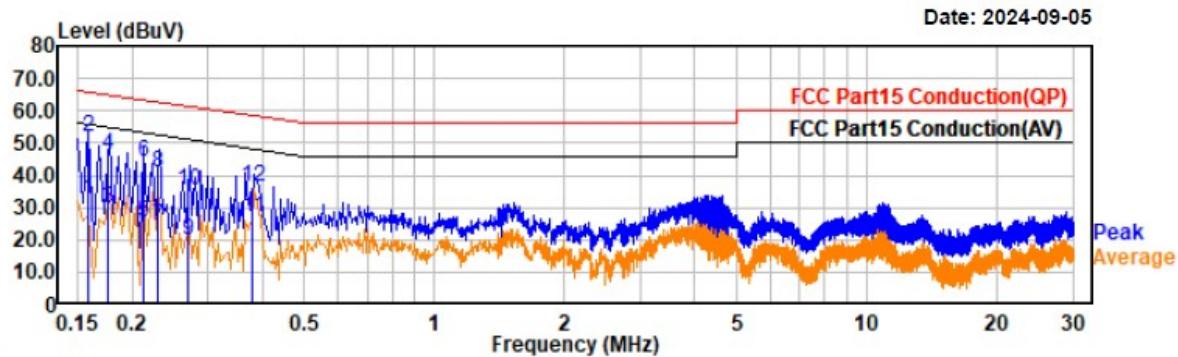
$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V)} - \text{Level (dB}\mu\text{V)}$$

Test Data

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

Project No.: 2407W89604E-RF
Test Mode: BT DHS 2441MHz Tx
EUT Model: SLM927

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

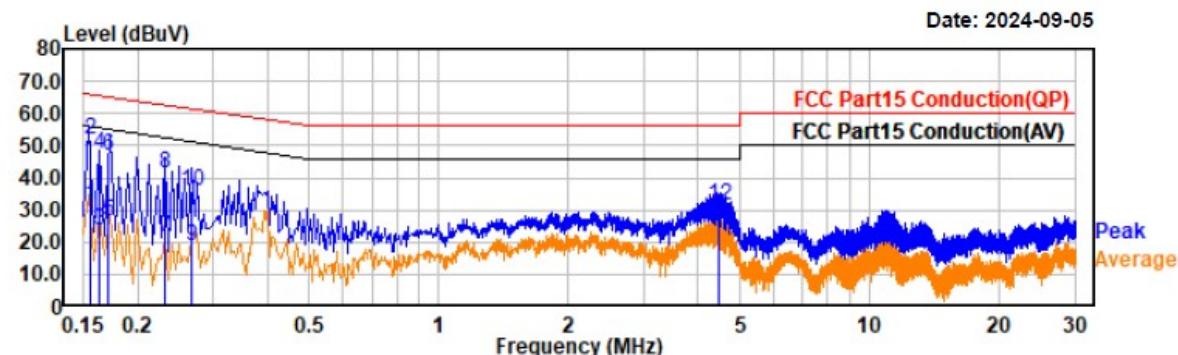


Trace: 1

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.16	11.53	21.09	32.62	55.57	22.95	Line	Average
0.16	30.62	21.09	51.71	65.57	13.86	Line	QP
0.18	8.38	21.16	29.54	54.70	25.16	Line	Average
0.18	25.45	21.16	46.61	64.70	18.09	Line	QP
0.21	4.23	21.20	25.43	53.11	27.68	Line	Average
0.21	22.90	21.20	44.10	63.11	19.01	Line	QP
0.23	2.99	21.12	24.11	52.43	28.32	Line	Average
0.23	19.87	21.12	40.99	62.43	21.44	Line	QP
0.27	-1.03	20.95	19.92	51.10	31.18	Line	Average
0.27	14.33	20.95	35.28	61.10	25.82	Line	QP
0.38	6.64	20.59	27.23	48.26	21.03	Line	Average
0.38	15.86	20.59	36.45	58.26	21.81	Line	QP

Project No.: 2407W89604E-RF
Test Mode: BT DH5 2441MHz 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
0.16	10.69	20.87	31.56	55.68	24.12	Neutral	Average
0.16	31.12	20.87	51.99	65.68	13.69	Neutral	QP
0.16	2.75	20.91	23.66	55.32	31.66	Neutral	Average
0.16	26.77	20.91	47.68	65.32	17.64	Neutral	QP
0.17	5.65	20.94	26.59	54.91	28.32	Neutral	Average
0.17	26.02	20.94	46.96	64.91	17.95	Neutral	QP
0.23	0.76	20.94	21.70	52.39	30.69	Neutral	Average
0.23	20.22	20.94	41.16	62.39	21.23	Neutral	QP
0.27	-1.89	20.83	18.94	51.19	32.25	Neutral	Average
0.27	15.26	20.83	36.09	61.19	25.10	Neutral	QP
4.45	2.40	20.87	23.27	46.00	22.73	Neutral	Average
4.45	10.73	20.87	31.60	56.00	24.40	Neutral	QP

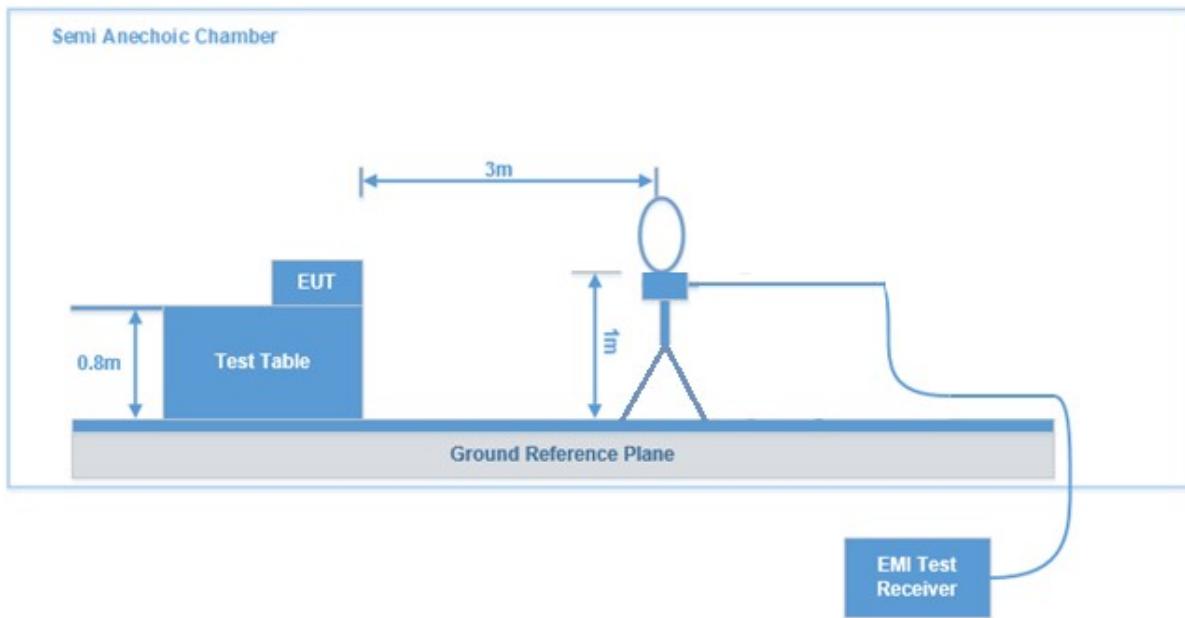
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

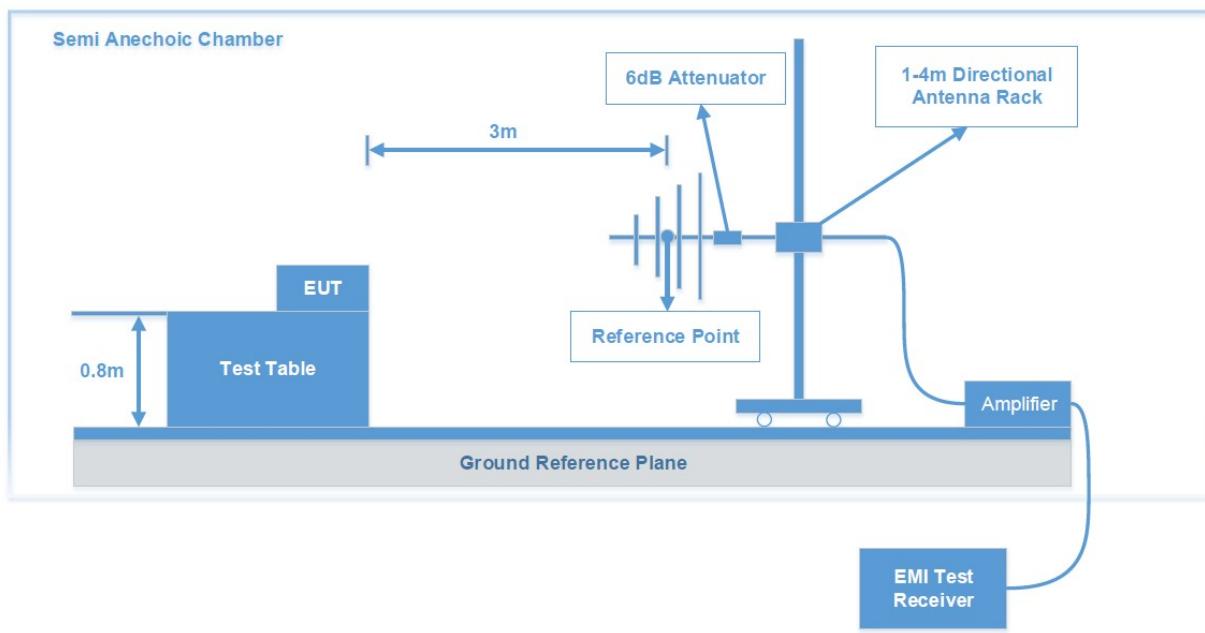
FCC §15.205; §15.209; §15.247(d)

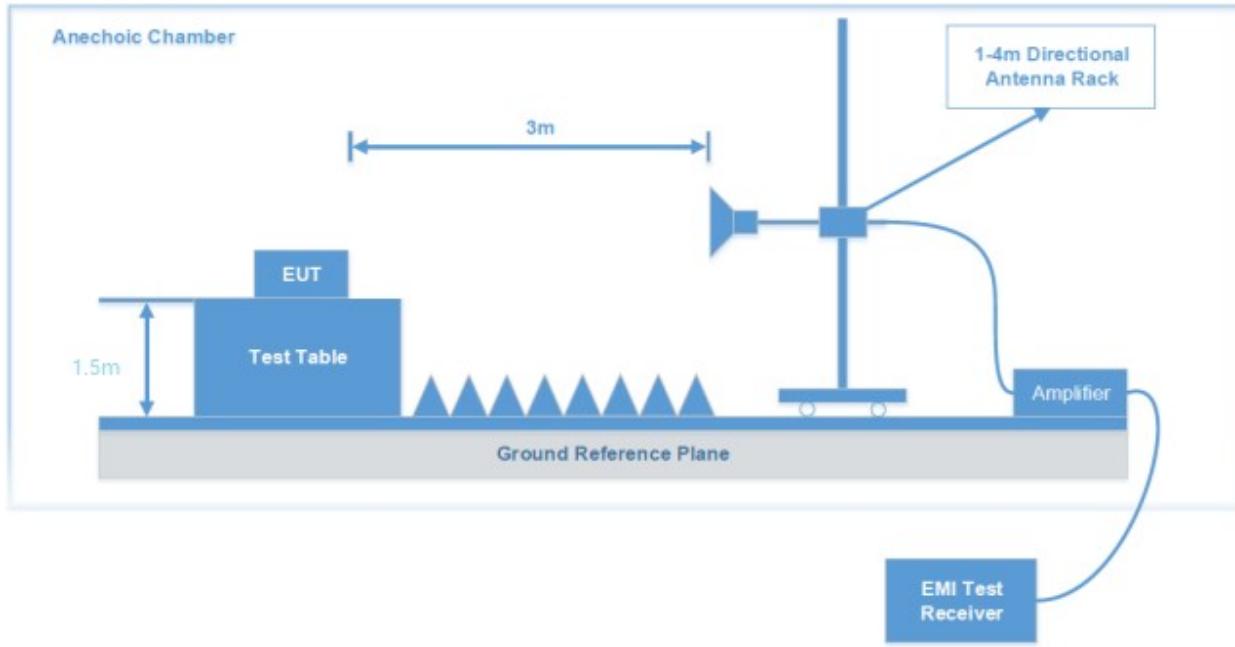
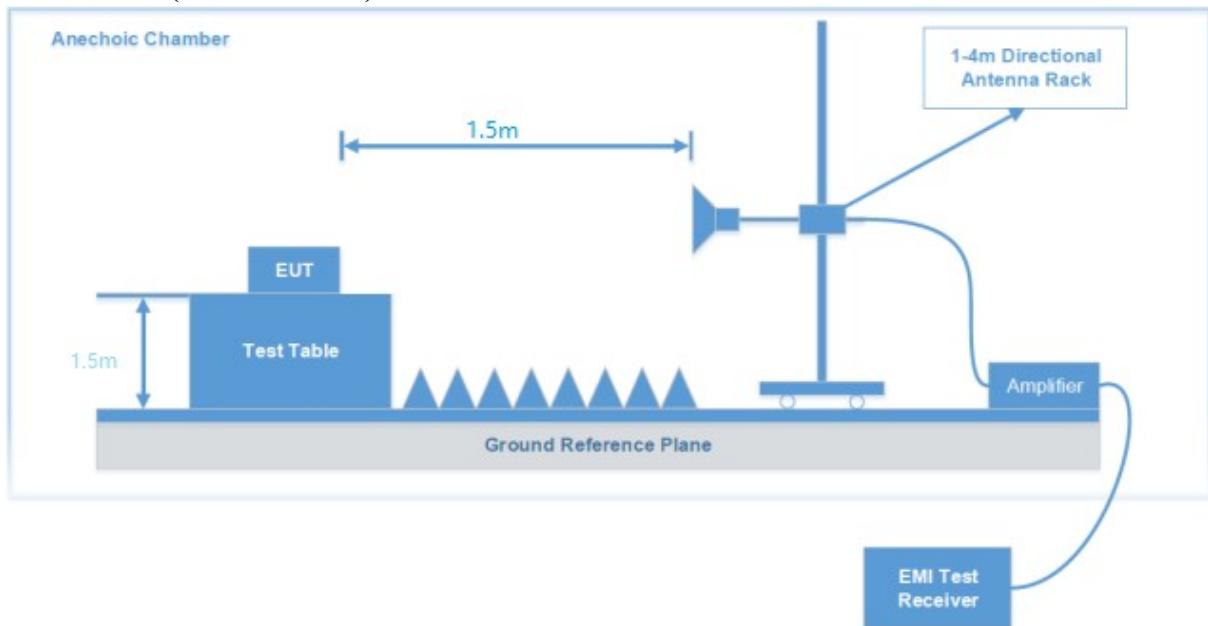
Test System Setup

9 kHz-30MHz



Below 1 GHz:



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

The radiated emission tests were performed in the 3 meters, 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 = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]})$ dB = 6.0 dB.

EMI Test Receiver Setup

The system was investigated from 9 kHz to 25 GHz.

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

Frequency Range	RBW	VBW	IF B/W	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 1 GHz	1 MHz	3 MHz	/	PK
	1 MHz	/	10Hz	AV

Test Procedure

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

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."

If the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 10 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

For Radiated Bandedge test, which was performed at 1.5 m distance, according to C63.10, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m

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

All emissions under the average limit and under the noise floor have not recorded in the report.

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:

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)
 Level (dB μ V/m) = Reading (dB μ V) + Factor (dB/m)

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 Z axes, test data as below:

Frequency Range:	Below 1 GHz	Above 1 GHz
Temperature:	21.3°C	21.3°C~23.6°C
Relative Humidity:	51 %	49 %~56%
ATM Pressure:	101.1kPa	100.1 kPa ~101.1kPa
Test Date:	2024-08-10	2024-08-10~2024-09-21
Test Engineer:	Wlif Wu	Wlif Wu

1) 9 kHz ~30MHz

EUT operation mode: Transmitting in BDR middle channel (GFSK) (worst case)

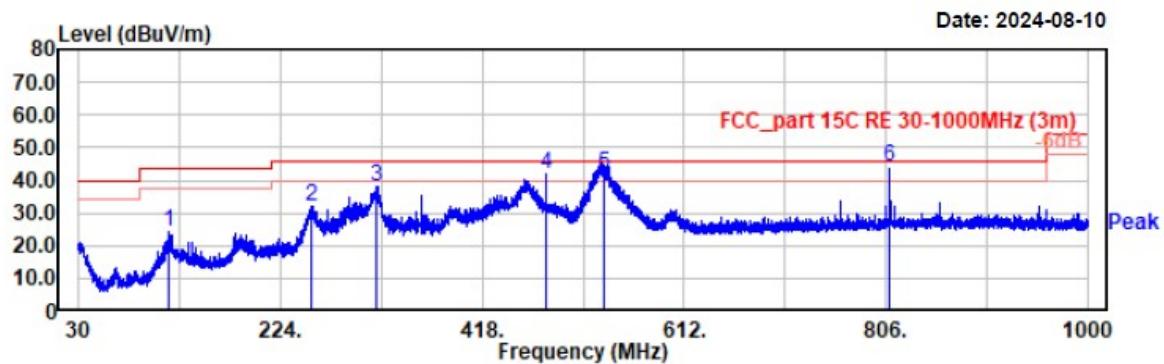
Pre-scan in parallel, ground-parallel and perpendicular of orientation of loop antenna, the amplitude of spurious emissions attenuated is more than 20 dB below the permissible value, which is not required to be report.

2) 30MHz-1GHz (worst case)

After pre-scan GFSK, $\pi/4$ -DQPSK, 8DPSK mode, the worst case is BDR DH5 2441MHz

Project No.: 2407W89604E-RF
 Test Mode: BDR DH5 2441MHz
 EUT Model: SLM927
 Test distance: 3m

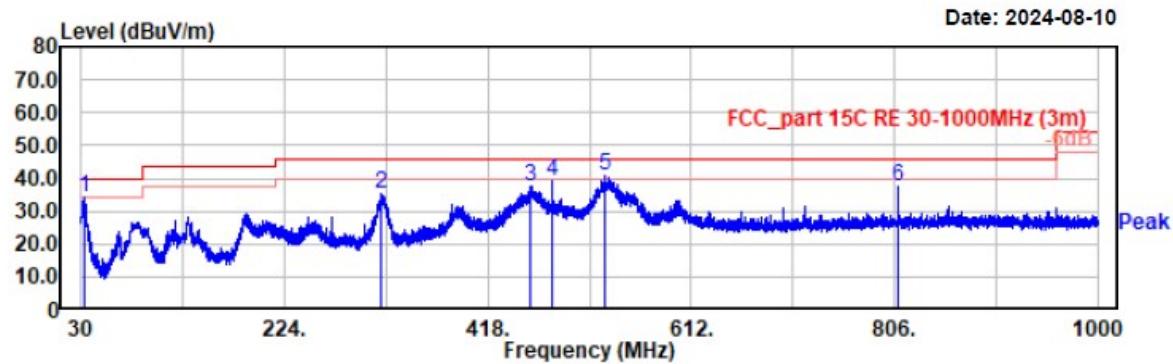
Temp/Humi/ATM: 21.3°C/51%/101.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
117.30	34.77	-10.63	24.14	43.50	19.36	Horizontal	Peak
253.88	43.58	-11.39	32.19	46.00	13.81	Horizontal	Peak
317.02	47.12	-8.84	38.28	46.00	7.72	Horizontal	QP
479.98	45.94	-3.83	42.11	46.00	3.89	Horizontal	QP
534.18	45.00	-3.15	41.85	46.00	4.15	Horizontal	QP
810.00	42.81	1.39	44.20	46.00	1.80	Horizontal	QP

Project No.: 2407W89604E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: SLM927
Test distance: 3m

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



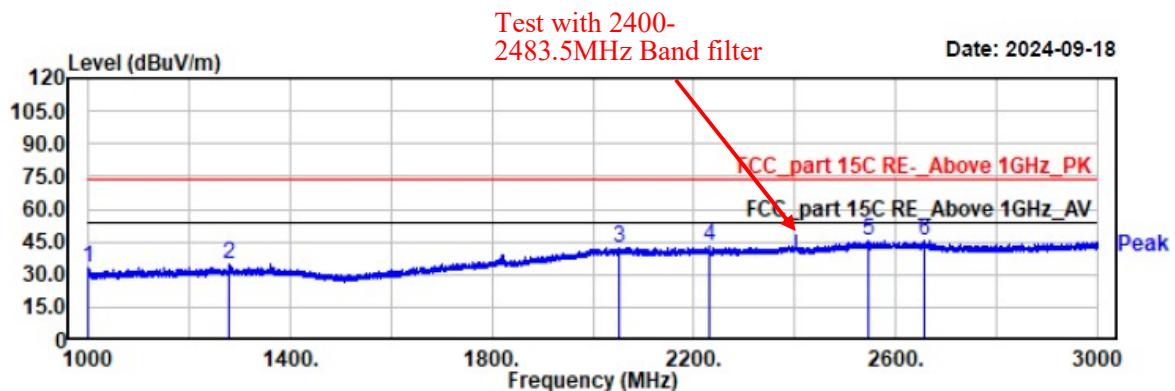
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
33.59	41.47	-7.27	34.20	40.00	5.80	Vertical	QP
316.64	44.21	-8.85	35.36	46.00	10.64	Vertical	Peak
458.64	42.32	-4.67	37.65	46.00	8.35	Vertical	QP
479.98	42.89	-3.83	39.06	46.00	6.94	Vertical	QP
529.84	43.85	-3.25	40.60	46.00	5.40	Vertical	QP
810.07	36.15	1.39	37.54	46.00	8.46	Vertical	QP

3) 1GHz-3GHz (worst case)

After pre-scan GFSK, $\pi/4$ -DQPSK, 8DPSK mode, the worst case is BDR DH5.

Project No.: 2407W89604E-RF
 Test Mode: BDR DH5 2402MHz
 EUT Model: SLM927
 Test distance: 3m

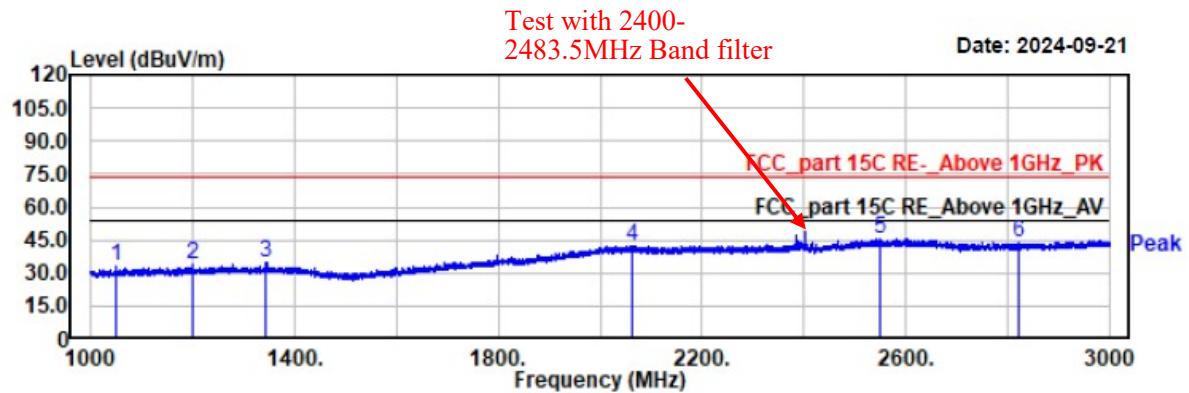
Temp/Humi/ATM: 22.6°C/49%/100.1kPa
 Tested by: Wlif Wu
 Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1000.20	50.69	-17.24	33.45	74.00	40.55	horizontal	Peak
1279.80	50.28	-15.51	34.77	74.00	39.23	horizontal	Peak
2053.00	48.50	-6.03	42.47	74.00	31.53	horizontal	Peak
2230.00	49.06	-6.24	42.82	74.00	31.18	horizontal	Peak
2546.00	48.86	-3.53	45.33	74.00	28.67	horizontal	Peak
2656.60	48.73	-3.54	45.19	74.00	28.81	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: BDR DH5 2402MHz
EUT Model: SLM927
Test distance: 3m

Temp/Humi/ATM: 22.6°C /49%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



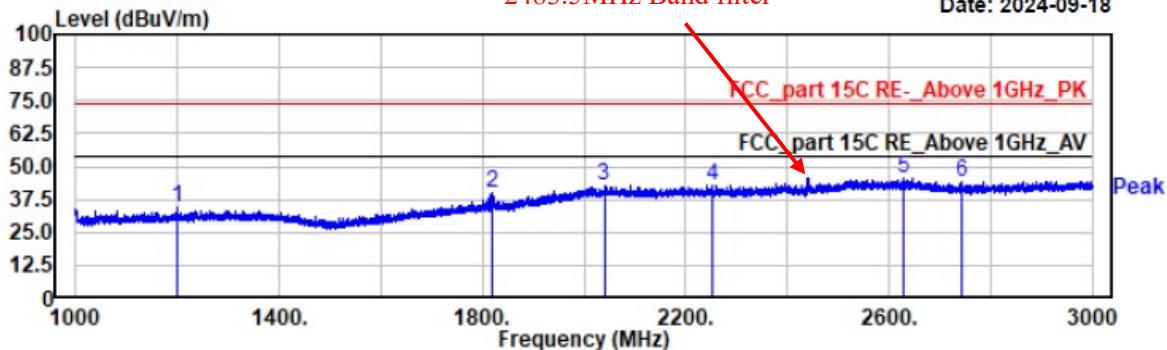
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1050.60	50.21	-17.04	33.17	74.00	40.83	vertical	Peak
1200.00	49.75	-16.05	33.70	74.00	40.30	vertical	Peak
1343.80	50.03	-15.44	34.59	74.00	39.41	vertical	Peak
2063.00	48.33	-6.18	42.15	74.00	31.85	vertical	Peak
2548.00	49.19	-3.50	45.69	74.00	28.31	vertical	Peak
2822.00	48.63	-4.63	44.00	74.00	30.00	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: BDR DH5 2441
EUT Model: SLM927
Test distance: 3m

Temp/Humi/ATM: 22.6°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

Test with 2400-
2483.5MHz Band filter

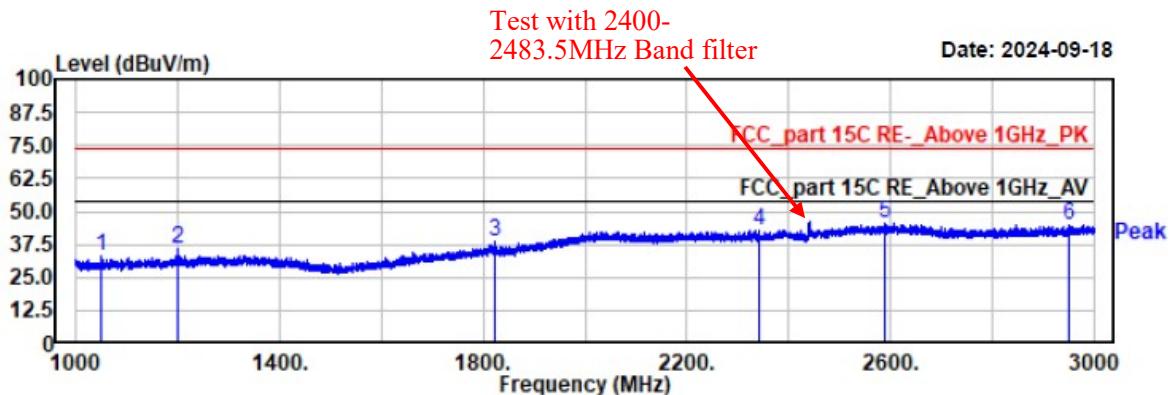
Date: 2024-09-18



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1200.00	50.75	-16.05	34.70	74.00	39.30	horizontal	Peak
1818.00	51.50	-11.47	40.03	74.00	33.97	horizontal	Peak
2039.40	48.66	-6.15	42.51	74.00	31.49	horizontal	Peak
2251.80	49.32	-6.25	43.07	74.00	30.93	horizontal	Peak
2628.80	48.95	-3.34	45.61	74.00	28.39	horizontal	Peak
2741.40	49.26	-4.79	44.47	74.00	29.53	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: BDR DH5 2441
EUT Model: SLM927
Test distance: 3m

Temp/Humi/ATM: 22.6°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



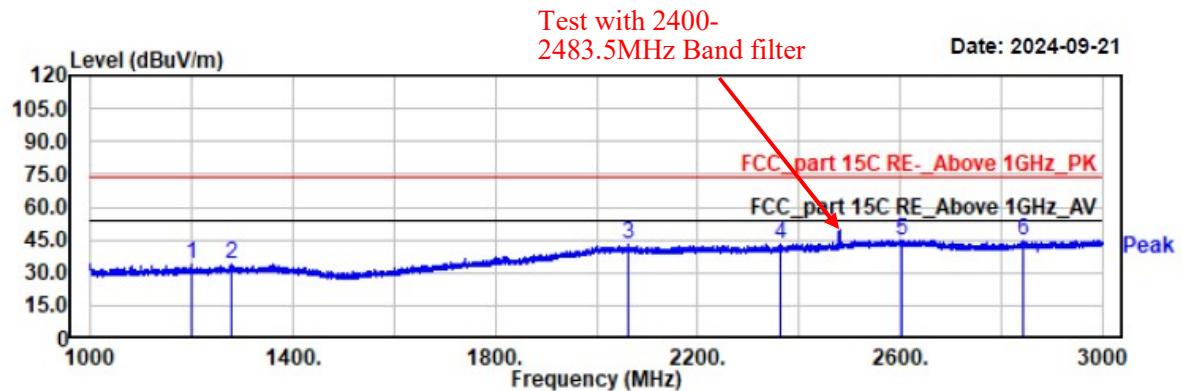
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1049.60	50.32	-17.04	33.28	74.00	40.72	vertical	Peak
1200.00	51.61	-16.05	35.56	74.00	38.44	vertical	Peak
1823.40	49.84	-11.44	38.40	74.00	35.60	vertical	Peak
2341.20	48.85	-5.94	42.91	74.00	31.09	vertical	Peak
2587.80	49.00	-3.34	45.66	74.00	28.34	vertical	Peak
2949.40	49.07	-4.21	44.86	74.00	29.14	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: BDR DH5 2480MHz
EUT Model: SLM927
Test distance: 3m

Temp/Humi/ATM: 22.6°C /49%/100.1kPa

Tested by: Wlif Wu

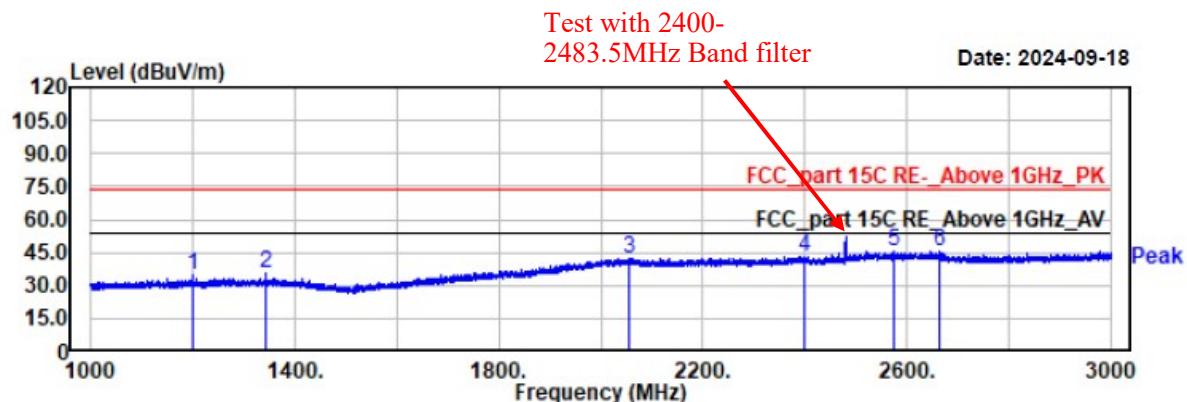
Power Source: AC120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1199.60	49.92	-16.05	33.87	74.00	40.13	horizontal	Peak
1280.20	49.82	-15.50	34.32	74.00	39.68	horizontal	Peak
2063.40	48.82	-6.17	42.65	74.00	31.35	horizontal	Peak
2364.20	48.43	-5.66	42.77	74.00	31.23	horizontal	Peak
2602.20	48.17	-3.30	44.87	74.00	29.13	horizontal	Peak
2844.80	48.95	-4.56	44.39	74.00	29.61	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: BDR DH5 2480MHz
EUT Model: SLM927
Test distance: 3m

Temp/Humi/ATM: 22.6°C/49%/100.1kPa
Tested by: Wlif Wu
Power Source: AC120V/60Hz



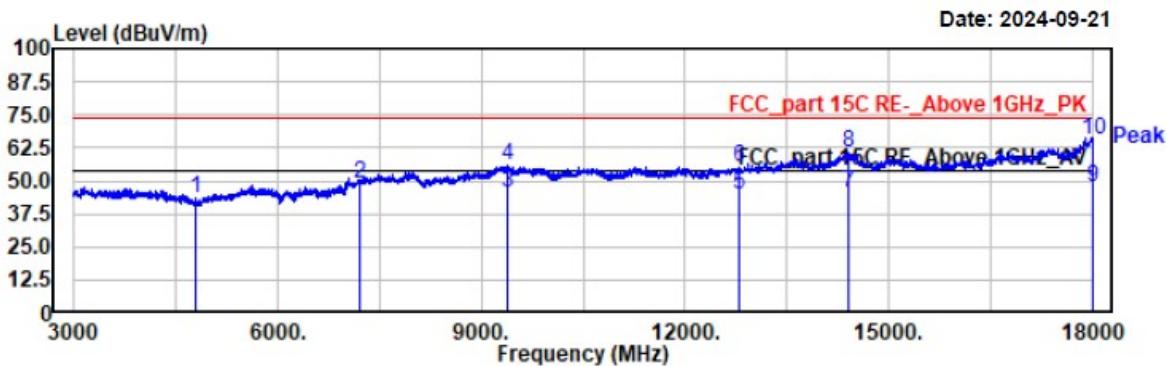
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1199.60	50.45	-16.05	34.40	74.00	39.60	vertical	Peak
1343.40	50.86	-15.44	35.42	74.00	38.58	vertical	Peak
2056.60	48.56	-6.09	42.47	74.00	31.53	vertical	Peak
2397.80	48.25	-5.22	43.03	74.00	30.97	vertical	Peak
2576.20	48.64	-3.38	45.26	74.00	28.74	vertical	Peak
2665.00	49.00	-3.75	45.25	74.00	28.75	vertical	Peak

4) 3GHz-18GHz (worst case)

After pre-scan GFSK, $\pi/4$ -DQPSK, 8DPSK mode, the worst case is BDR DH5.

Project No.: 2407W89604E-RF
 Test Mode: BDR DH5 2402MHz
 EUT Model: SLM927
 Test distance: 3m

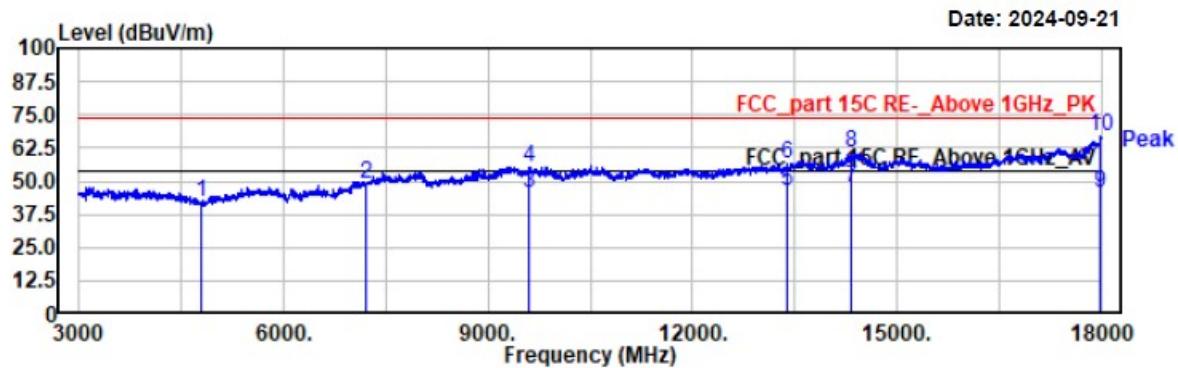
Temp/Humi/ATM: 21.3°C/51%/101.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.60	44.95	-1.51	43.44	74.00	30.56	horizontal	Peak
7206.00	44.22	4.53	48.75	74.00	25.25	horizontal	Peak
9398.00	36.48	9.04	45.52	54.00	8.48	horizontal	Average
9398.00	46.83	9.04	55.87	74.00	18.13	horizontal	Peak
12808.20	34.48	10.38	44.86	54.00	9.14	horizontal	Average
12808.20	45.09	10.38	55.47	74.00	18.53	horizontal	Peak
14409.60	32.24	13.15	45.39	54.00	8.61	horizontal	Average
14409.60	47.32	13.15	60.47	74.00	13.53	horizontal	Peak
17996.60	28.66	19.00	47.66	54.00	6.34	horizontal	Average
17996.60	46.69	19.00	65.69	74.00	8.31	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: BDR DHS 2402MHz
EUT Model: SLM927
Test distance: 3m

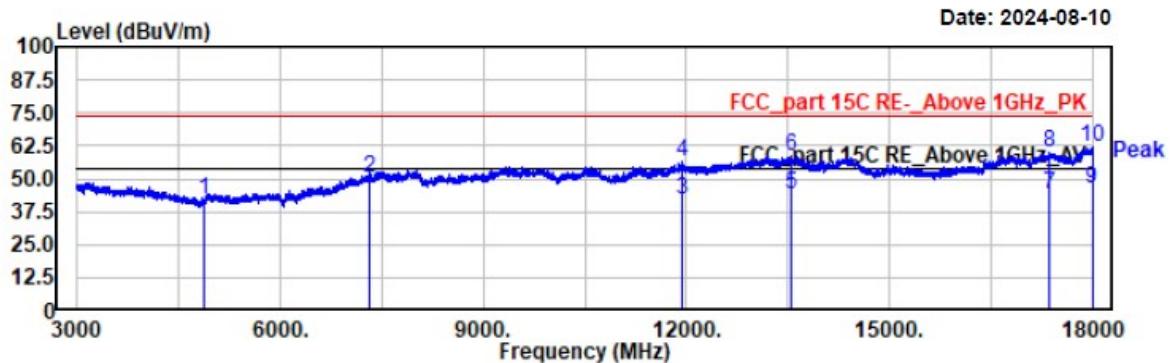
Temp/Humi/ATM: 21.3°C/51%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.60	43.38	-1.51	41.87	74.00	32.13	vertical	Peak
7206.00	44.72	4.53	49.25	74.00	24.75	vertical	Peak
9591.80	36.21	9.12	45.33	54.00	8.67	vertical	Average
9591.80	46.38	9.12	55.50	74.00	18.50	vertical	Peak
13399.80	34.72	11.49	46.21	54.00	7.79	vertical	Average
13399.80	45.12	11.49	56.61	74.00	17.39	vertical	Peak
14334.80	34.26	13.44	47.70	54.00	6.30	vertical	Average
14334.80	47.22	13.44	60.66	74.00	13.34	vertical	Peak
17983.00	26.70	18.89	45.59	54.00	8.41	vertical	Average
17983.00	47.88	18.89	66.77	74.00	7.23	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: SLM927
Test distance: 3m

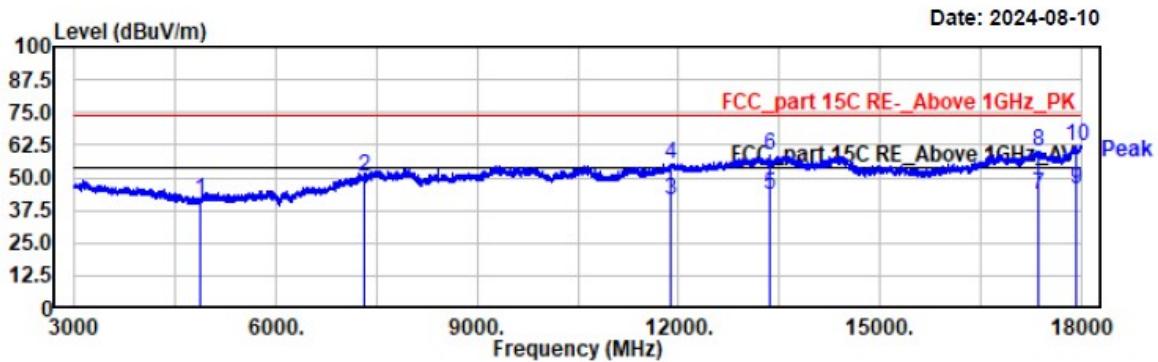
Temp/Humi/ATM: 21.3°C/51%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.00	39.98	2.08	42.06	74.00	31.94	horizontal	Peak
7323.00	40.97	9.55	50.52	74.00	23.48	horizontal	Peak
11927.60	28.62	13.60	42.22	54.00	11.78	horizontal	Average
11927.60	42.94	13.60	56.54	74.00	17.46	horizontal	Peak
13542.60	28.45	15.92	44.37	54.00	9.63	horizontal	Average
13542.60	42.82	15.92	58.74	74.00	15.26	horizontal	Peak
17357.40	28.78	15.06	43.84	54.00	10.16	horizontal	Average
17357.40	44.79	15.06	59.85	74.00	14.15	horizontal	Peak
17991.50	29.17	17.07	46.24	54.00	7.76	horizontal	Average
17991.50	45.23	17.07	62.30	74.00	11.70	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: BDR DHS 2441MHz
EUT Model: SLM927
Test distance: 3m

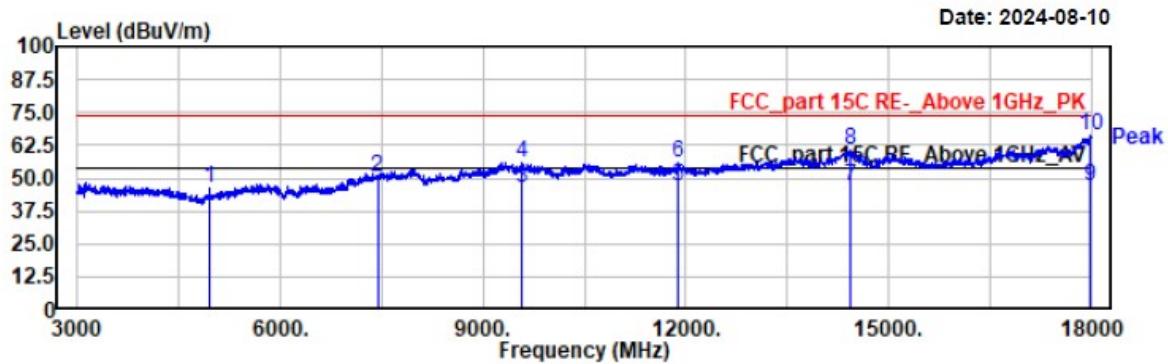
Temp/Humi/ATM: 21.3°C/51%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.00	39.49	2.08	41.57	74.00	32.43	vertical	Peak
7323.00	40.77	9.55	50.32	74.00	23.68	vertical	Peak
11891.90	27.77	13.45	41.22	54.00	12.78	vertical	Average
11891.90	42.06	13.45	55.51	74.00	18.49	vertical	Peak
13364.10	27.99	15.79	43.78	54.00	10.22	vertical	Average
13364.10	42.57	15.79	58.36	74.00	15.64	vertical	Peak
17360.80	28.42	15.06	43.48	54.00	10.52	vertical	Average
17360.80	45.19	15.06	60.25	74.00	13.75	vertical	Peak
17920.10	28.64	16.86	45.50	54.00	8.50	vertical	Average
17920.10	45.20	16.86	62.06	74.00	11.94	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: BDR DH5 2480MHz
EUT Model: SLM927
Test distance: 3m

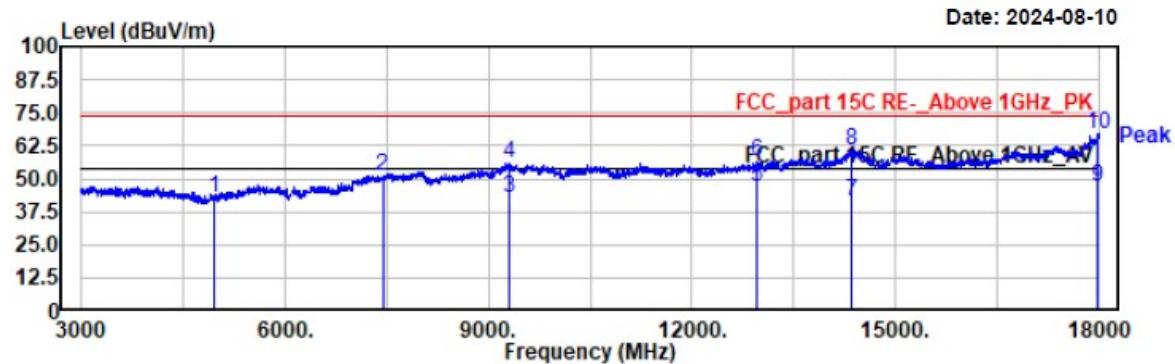
Temp/Humi/ATM: 21.3°C/51%/101.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4961.00	46.51	-0.03	46.48	74.00	27.52	horizontal	Peak
7440.00	44.60	5.90	50.50	74.00	23.50	horizontal	Peak
9568.00	37.16	8.73	45.89	54.00	8.11	horizontal	Average
9568.00	47.03	8.73	55.76	74.00	18.24	horizontal	Peak
11873.20	37.86	9.20	47.06	54.00	6.94	horizontal	Average
11873.20	46.66	9.20	55.86	74.00	18.14	horizontal	Peak
14443.60	33.86	13.18	47.04	54.00	6.96	horizontal	Average
14443.60	47.20	13.18	60.38	74.00	13.62	horizontal	Peak
17989.80	27.64	18.94	46.58	54.00	7.42	horizontal	Average
17989.80	47.11	18.94	66.05	74.00	7.95	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: BDR DH5 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



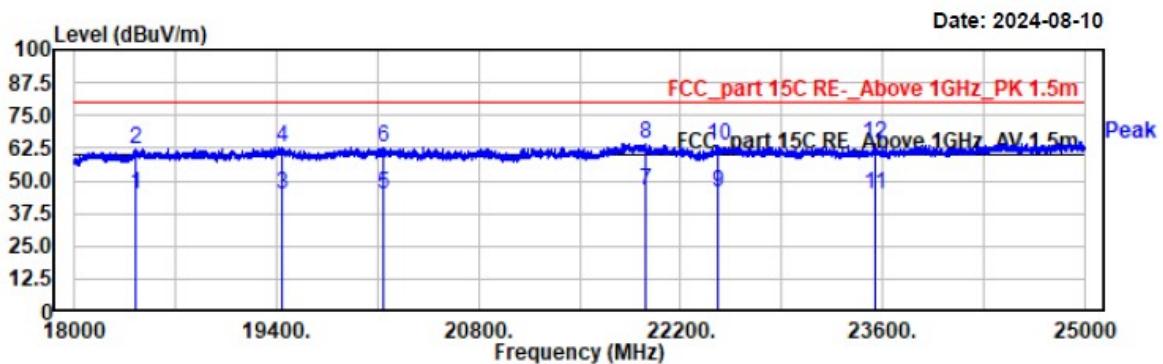
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4961.00	42.71	-0.03	42.68	74.00	31.32	vertical	Peak
7440.00	44.92	5.90	50.82	74.00	23.18	vertical	Peak
9302.80	34.33	8.23	42.56	54.00	11.44	vertical	Average
9302.80	47.39	8.23	55.62	74.00	18.38	vertical	Peak
12968.00	36.02	10.83	46.85	54.00	7.15	vertical	Average
12968.00	45.43	10.83	56.26	74.00	17.74	vertical	Peak
14341.60	28.27	13.41	41.68	54.00	12.32	vertical	Average
14341.60	47.53	13.41	60.94	74.00	13.06	vertical	Peak
17989.80	28.19	18.94	47.13	54.00	6.87	vertical	Average
17989.80	48.15	18.94	67.09	74.00	6.91	vertical	Peak

5) 18 GHz - 25 GHz (worst case)

After pre-scan GFSK, $\pi/4$ -DQPSK, 8DPSK mode, the worst case is BDR DH5 2441MHz

Project No.: 2407W89604E-RF
 Test Mode: BT DH5 2441
 EUT Model: SLM927
 Test distance: 1.5m

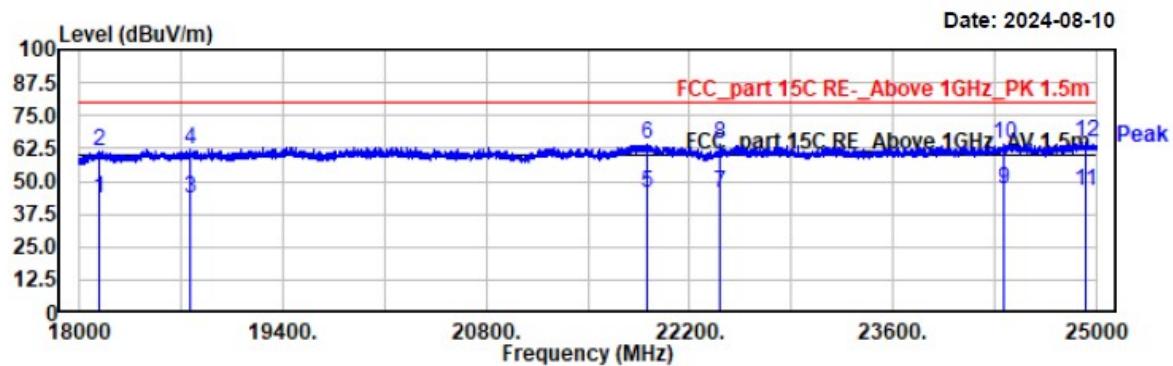
Temp/Humi/ATM: 21.3°C/51%/101.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
18430.10	20.74	24.32	45.06	60.00	14.94	horizontal	Average
18430.10	38.08	24.32	62.40	80.00	17.60	horizontal	Peak
19436.60	20.36	24.60	44.96	60.00	15.04	horizontal	Average
19436.60	38.43	24.60	63.03	80.00	16.97	horizontal	Peak
20142.80	20.19	24.89	45.08	60.00	14.92	horizontal	Average
20142.80	38.19	24.89	63.08	80.00	16.92	horizontal	Peak
21958.90	20.04	26.09	46.13	60.00	13.87	horizontal	Average
21958.90	38.30	26.09	64.39	80.00	15.61	horizontal	Peak
22458.30	19.60	26.09	45.69	60.00	14.31	horizontal	Average
22458.30	37.46	26.09	63.55	80.00	16.45	horizontal	Peak
23542.90	18.25	26.91	45.16	60.00	14.84	horizontal	Average
23542.90	36.92	26.91	63.83	80.00	16.17	horizontal	Peak

Project No.: 2407W89604E-RF
 Test Mode: BT DH5 2441
 EUT Model: SLM927
 Test distance: 1.5m

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
18138.60	19.11	24.13	43.24	60.00	16.76	vertical	Average
18138.60	37.21	24.13	61.34	80.00	18.66	vertical	Peak
18766.70	19.33	24.46	43.79	60.00	16.21	vertical	Average
18766.70	37.84	24.46	62.30	80.00	17.70	vertical	Peak
21907.20	19.79	26.06	45.85	60.00	14.15	vertical	Average
21907.20	38.18	26.06	64.24	80.00	15.76	vertical	Peak
22408.80	19.66	25.90	45.56	60.00	14.44	vertical	Average
22408.80	37.97	25.90	63.87	80.00	16.13	vertical	Peak
24366.80	18.35	28.31	46.66	60.00	13.34	vertical	Average
24366.80	36.14	28.31	64.45	80.00	15.55	vertical	Peak
24924.50	18.02	28.40	46.42	60.00	13.58	vertical	Average
24924.50	36.30	28.40	64.70	80.00	15.30	vertical	Peak

Restricted Bands Emissions:

Pre-Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK modes of operation in the X, Y and Z axes of orientation, the mode in Z-axis of orientation was recorded

Note:

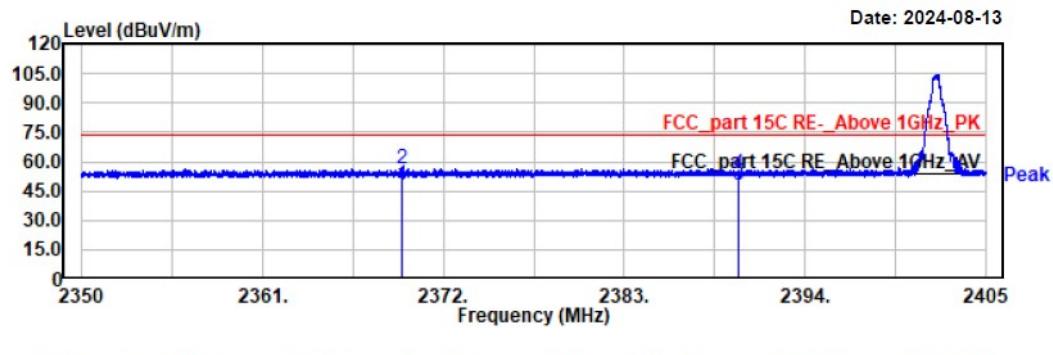
Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

Level (dB μ V/m) = Reading (dB μ V) + Factor (dB/m)

Margin (dB) = Limit (dB μ V/m) - Level (dB μ V/m)

Project No.: 2407W89604E-RF
 Test Mode: 1DH1-2402
 EUT Model: SLM927
 Test distance: 3m

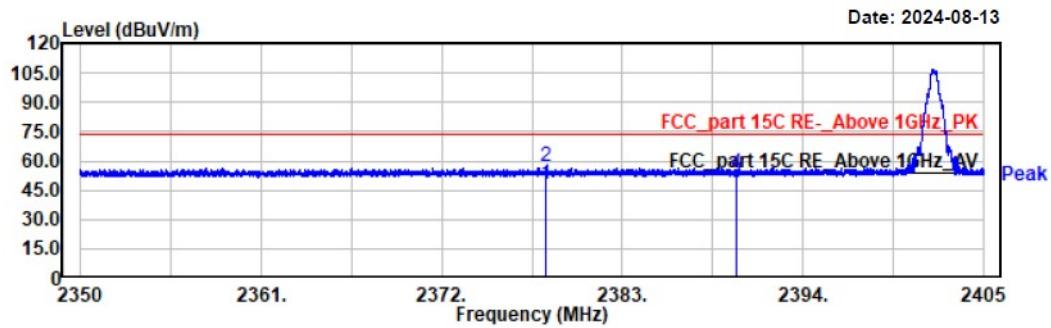
Temp/Humi/ATM: 23.6°C / 56% / 100.1kPa
 Tested by: Wlif Wu
 Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2369.44	11.75	36.66	48.41	54.00	5.59	horizontal	Average
2369.44	19.63	36.66	56.29	74.00	17.71	horizontal	Peak
2390.00	11.38	36.93	48.31	54.00	5.69	horizontal	Average
2390.00	16.68	36.93	53.61	74.00	20.39	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: 1DH1-2402
EUT Model: SLM927
Test distance: 3m

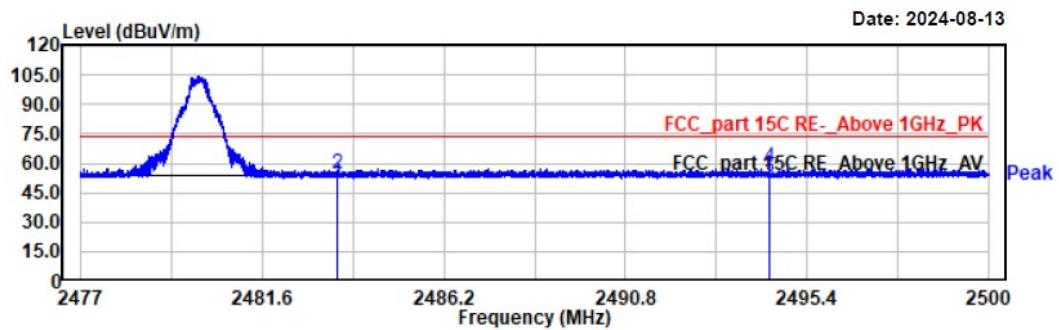
Temp/Humi/ATM: 23.6°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2378.34	11.45	36.78	48.23	54.00	5.77	vertical	Average
2378.34	20.08	36.78	56.86	74.00	17.14	vertical	Peak
2390.00	11.71	36.93	48.64	54.00	5.36	vertical	Average
2390.00	16.96	36.93	53.89	74.00	20.11	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: 1DH1-2480
EUT Model: SLM927
Test distance: 3m

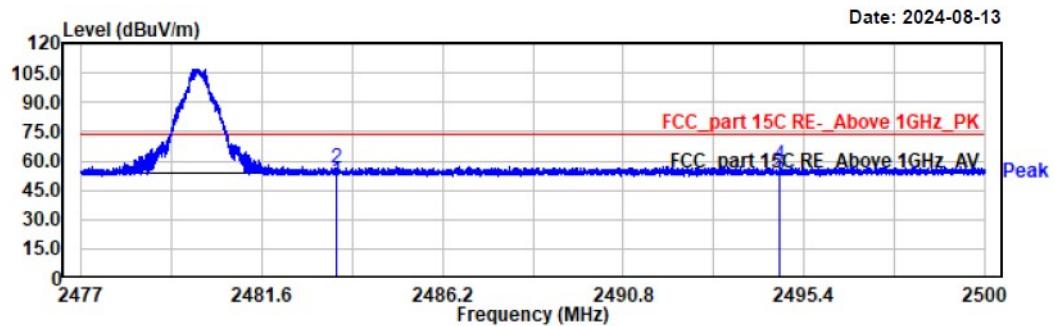
Temp/Humi/ATM: 23.6°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	11.61	37.75	49.36	54.00	4.64	horizontal	Average
2483.50	17.16	37.75	54.91	74.00	19.09	horizontal	Peak
2494.44	11.82	37.96	49.78	54.00	4.22	horizontal	Average
2494.44	19.62	37.96	57.58	74.00	16.42	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: 1DH1-2480
EUT Model: SLM927
Test distance: 3m

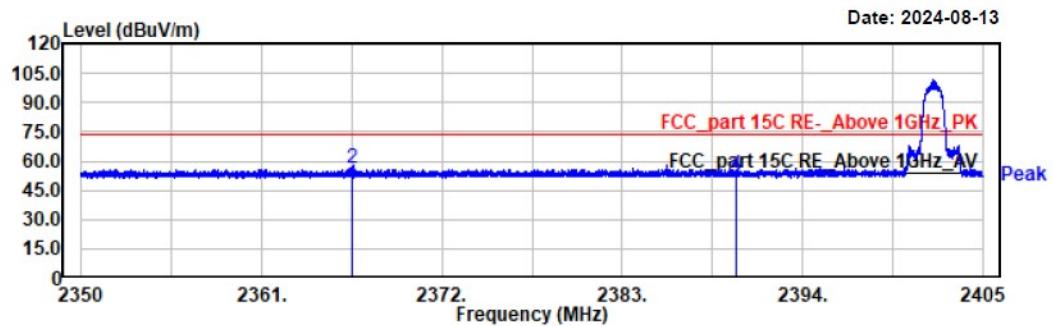
Temp/Humi/ATM: 23.6°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	11.71	37.75	49.46	54.00	4.54	vertical	Average
2483.50	18.20	37.75	55.95	74.00	18.05	vertical	Peak
2494.79	11.52	37.97	49.49	54.00	4.51	vertical	Average
2494.79	19.78	37.97	57.75	74.00	16.25	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: 2DH1-2402
EUT Model: SLM927
Test distance: 3m

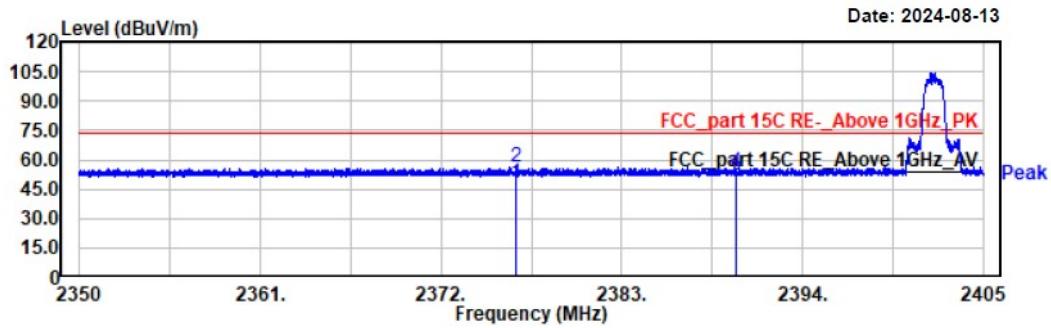
Temp/Humi/ATM: 23.6°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2366.54	11.70	36.63	48.33	54.00	5.67	horizontal	Average
2366.54	19.62	36.63	56.25	74.00	17.75	horizontal	Peak
2390.00	11.72	36.93	48.65	54.00	5.35	horizontal	Average
2390.00	16.42	36.93	53.35	74.00	20.65	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: 2DH1-2402
EUT Model: SLM927
Test distance: 3m

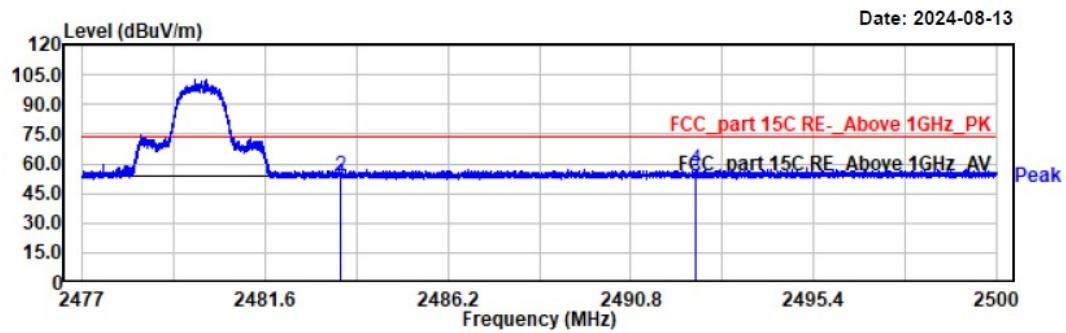
Temp/Humi/ATM: 23.6°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2376.54	11.37	36.76	48.13	54.00	5.87	vertical	Average
2376.54	19.30	36.76	56.06	74.00	17.94	vertical	Peak
2390.00	11.78	36.93	48.71	54.00	5.29	vertical	Average
2390.00	17.08	36.93	54.01	74.00	19.99	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: 2DH1-2480
EUT Model: SLM927
Test distance: 3m

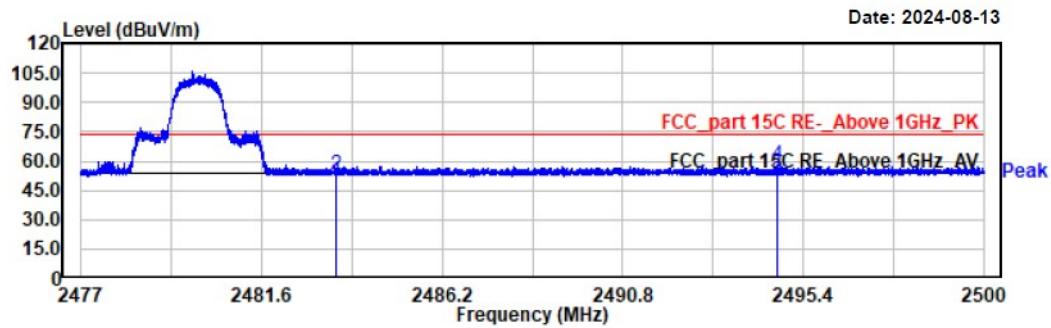
Temp/Humi/ATM: 23.6°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	11.71	37.75	49.46	54.00	4.54	horizontal	Average
2483.50	16.16	37.75	53.91	74.00	20.09	horizontal	Peak
2492.44	11.37	37.92	49.29	54.00	4.71	horizontal	Average
2492.44	19.07	37.92	56.99	74.00	17.01	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: 2DH1-2480
EUT Model: SLM927
Test distance: 3m

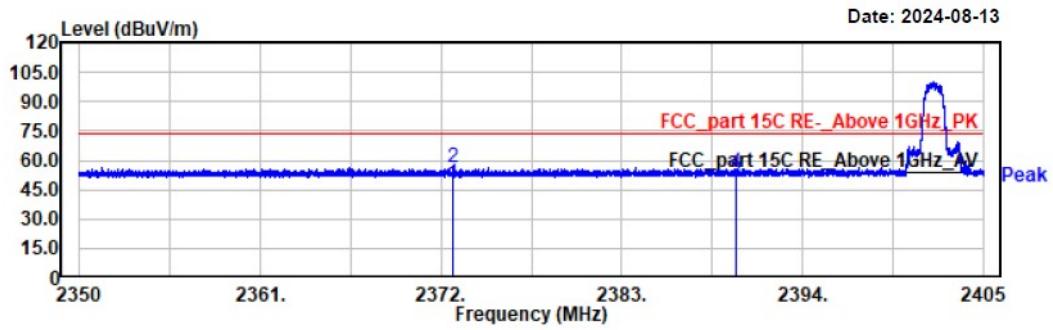
Temp/Humi/ATM: 23.6°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	11.73	37.75	49.48	54.00	4.52	vertical	Average
2483.50	15.28	37.75	53.03	74.00	20.97	vertical	Peak
2494.74	11.73	37.96	49.69	54.00	4.31	vertical	Average
2494.74	19.62	37.96	57.58	74.00	16.42	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: 3DH1-2402
EUT Model: SLM927
Test distance: 3m

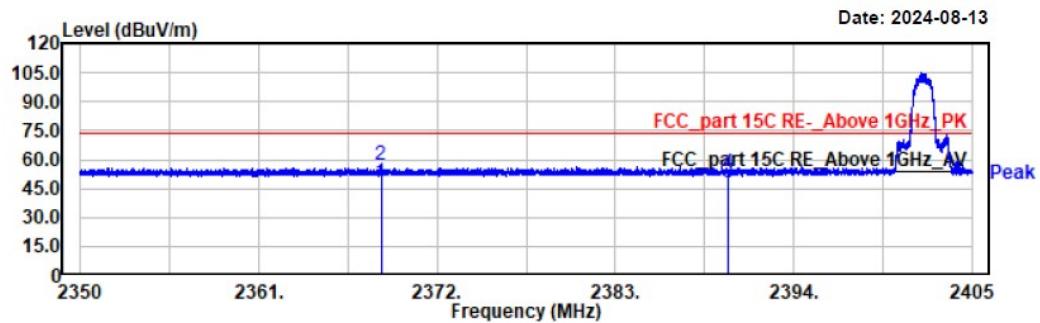
Temp/Humi/ATM: 23.6°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2372.69	11.31	36.71	48.02	54.00	5.98	horizontal	Average
2372.69	19.39	36.71	56.10	74.00	17.90	horizontal	Peak
2390.00	11.72	36.93	48.65	54.00	5.35	horizontal	Average
2390.00	16.45	36.93	53.38	74.00	20.62	horizontal	Peak

Project No.: 2407W89604E-RF
Test Mode: 3DH1-2402
EUT Model: SLM927
Test distance: 3m

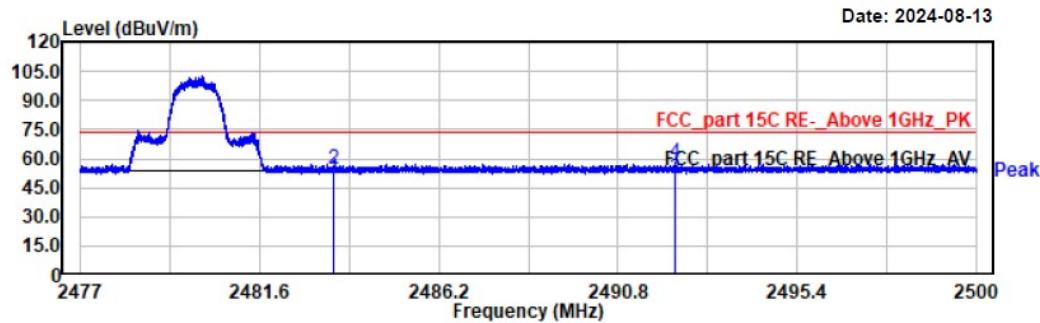
Temp/Humi/ATM: 23.6°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2368.54	11.72	36.65	48.37	54.00	5.63	vertical	Average
2368.54	20.47	36.65	57.12	74.00	16.88	vertical	Peak
2390.00	11.34	36.93	48.27	54.00	5.73	vertical	Average
2390.00	16.34	36.93	53.27	74.00	20.73	vertical	Peak

Project No.: 2407W89604E-RF
Test Mode: 3DH1-2480
EUT Model: SLM927
Test distance: 3m

Temp/Humi/ATM: 23.6°C/56%/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
2483.50	11.73	37.75	49.48	54.00	4.52	horizontal	Average
2483.50	17.22	37.75	54.97	74.00	19.03	horizontal	Peak
2492.27	11.37	37.92	49.29	54.00	4.71	horizontal	Average
2492.27	19.97	37.92	57.89	74.00	16.11	horizontal	Peak