RF EXPOSURE 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-C2001A1

Report Type:	**Product Name:**
Original Report	POS Terminal

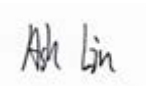
Report Number:	2407Z105199E-RF-02
Report Date:	2025-06-10
Reviewed By:	Ash Lin 
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TABLE OF CONTENTS

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2407Z105199E-RF-02	R1V1	2025-06-10	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test

Applicant:		Fujian LANDI Commercial Equipment Co.,Ltd.
Product Name:		POS Terminal
Tested Model:		C20Pro, C20ProSE
Power Supply:		DC 19.0V, 3.42A from adapter
Adapter #1 Information	Model:	PA-1650-57 65.0W
	Input:	AC 100-240V, 50/60Hz 1.6A
	Output:	DC 19.0V, 3.42A
Adapter #2 Information	Model:	PA-1650-90 65.0W
	Input:	AC 100-240V, 50/60Hz, 1.6A
	Output:	DC 19.0V, 3.42A
RF Function:		NFC
Operating Band/Frequency:		13.56 MHz
Antenna Type:		COIL Antenna

Note:
1. The Operating Frequency is provided by the applicant.
2. The EUT contains a variety of configurations, the difference of the configurations show as below, the EUT supplied by the applicant was received on 2024-11-18

Model name	Certified RF Module	Configuration No.	Description	NFC	WWAN/GNSS	Printer
C20Pro	SLM927 (FCC ID:2AG6N-SLM927AM4MG IC:23725-SLM927AM4MG)	1	4G NA-10.1" CFD	√	√	√
	SNM927 (FCC ID:2AG6N-SNM927WF4MG IC:23725-SNM927WF4MG)	2	Wifi only - 10.1" CFD	√	x	√
C20ProSE		3	Wifi only - 10.1" CFD	√	x	x

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.

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Limits for Maximum Permissible Exposure (MPE)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**Averaging Time (minutes)**
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*($180/f^2$)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;
According to §1.1310 & §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

EUT Information

Configuration 1

Operation Modes	Operation Frequency (MHz)	Max Conducted output power including Tune-up Tolerance (dBm)	Maximum Antenna Gain (dBi)
2.4G WLAN	2412-2462	19	0.84
BT	2402-2480	15	0.84
BLE	2402-2480	4	0.84
WLAN 5.2G	5180-5240	17	0.69
WLAN 5.3G	5260-5320	17	0.74
WLAN 5.5G	5500-5720	17	0.95
WLAN 5.8G	5745-5825	17	0.95
WCDMA B2	1850-1910	25	1.82
WCDMA B4	1710-1755	25	2.85
WCDMA B5	824-849	25	2.39
LTE B2	1850-1910	25.7	1.82
LTE B4	1710-1755	25.7	2.85
LTE B5	824-849	25.7	2.39
LTE B7	2500-2570	25.7	3.36
LTE B12	699-716	25.7	0.62
LTE B13	777-787	25.7	0.58
LTE B14	788-798	25.7	-0.34
LTE B17	704-716	25.7	0.6
LTE B25	1850-1915	25.7	1.82
LTE B26	814-849	25.7	2.39
LTE B41	2496-2690	25.7	3.82
LTE B66	1710-1780	25.7	2.85
LTE B71	663-698	25.7	0.96
NFC	13.56	-40.5	0

Note:
1. The above parameters were provided by the manufacturer.
2. Please refer to the FCC ID: 2AG6N-SLM927AM4MG for power about the certified module.
3. Refer RF test reports: 2407Z105199E-RF-01, the NFC field strength is 54.45dBμV/m @ 3m = -40.75 dBm(0.00008mW) EIRP. That equal to antenna gain is 0dBi and used the EIRP value as conducted power.

Configuration 2/3

Operation Modes	Operation Frequency (MHz)	Max Conducted output power including Tune-up Tolerance (dBm)	Maximum Antenna Gain (dBi)
2.4G WLAN	2412-2462	20.5	0.84
Bluetooth	2402-2480	14	0.84
BLE	2402-2480	3	0.84
WLAN 5.2G	5180-5240	16	0.69
WLAN 5.3G	5260-5320	16	0.74
WLAN 5.5G	5500-5720	17	0.95
WLAN 5.8G	5745-5825	18	0.95
NFC	13.56	-41	0

Note:
1. The above parameters were provided by the manufacturer.
2. Please refer to the FCC ID: 2AG6N-SNM927WF4MG for power about the certified module.
3. Refer RF test reports: 2407Z105199E-RF-01,The Max. NFC field strength is 53.92dBμV/m @ 3m = -41.28 dBm(0.00008mW) EIRP. That equal to antenna gain is 0dBi and used the EIRP value as conducted power.

Calculated Data

Configuration 1

Mode	Frequency (MHz)	Antenna Gain		★Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limt (mW/cm^2)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G WLAN	2412-2462	0.84	1.21	19	79.43	20	0.0191	1.000
BLE	2402-2480	0.84	1.21	4	2.51	20	0.0006	1.000
BT	2402-2480	0.84	1.21	15	31.62	20	0.0076	1.000
5.2GHz Wi-Fi	5180-5240	0.69	1.17	17	50.12	20	0.0117	1.000
5.3GHz Wi-Fi	5260-5320	0.74	1.19	17	50.12	20	0.0119	1.000
5.5GHz Wi-Fi	5500-5720	0.95	1.24	17	50.12	20	0.0124	1.000
5.8GHz Wi-Fi	5745-5825	0.95	1.24	17	50.12	20	0.0124	1.000
WCDMA B2	1850-1910	1.82	1.52	25	316.23	20	0.0956	1.000
WCDMA B4	1710-1755	2.85	1.93	25	316.23	20	0.1214	1.000
WCDMA B5	824-849	2.39	1.73	25	316.23	20	0.1088	0.549
LTE B2	1850-1910	1.82	1.52	25.7	371.54	20	0.1124	1.000
LTE B4	1710-1755	2.85	1.93	25.7	371.54	20	0.1425	1.000
LTE B5	824-849	2.39	1.73	25.7	371.54	20	0.1281	0.549
LTE B7	2500-2570	3.36	2.17	25.7	371.54	20	0.1602	1.000
LTE B12	699-716	0.62	1.15	25.7	371.54	20	0.0852	0.466
LTE B13	777-787	0.58	1.14	25.7	371.54	20	0.0843	0.525
LTE B14	788-798	-0.34	0.92	25.7	371.54	20	0.0683	0.518
LTE B17	704-716	0.6	1.15	25.7	371.54	20	0.0849	0.469
LTE B25	1850-1915	1.82	1.52	25.7	371.54	20	0.1124	1.000
LTE B26	814-849	2.39	1.73	25.7	371.54	20	0.1281	0.543
LTE B41	2496-2690	3.82	2.41	25.7	371.54	20	0.1781	1.000
LTE B66	1710-1780	2.85	1.93	25.7	371.54	20	0.1425	1.000
LTE B71	663-698	0.96	1.25	25.7	371.54	20	0.0922	0.442
NFC	13.56	0	1.00	-40.5	0.00009	20	<<0.0001	0.98

Note: 1. The Tune-up output power was declared by the Manufacturer.
2. The device contains a certificated module, FCC ID: 2AG6N-SLM927AM4MG
3. Refer RF test reports: 2407Z105199E-RF-01, NFC field strength is 54.45dBμV/m @ 3m = -40.75 dBm(0.00008mW) EIRP. That equal to antenna gain is 0dBi and used the EIRP value as conducted power.

Configuration 2/3

Mode	Frequency (MHz)	Antenna Gain		★Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limt (mW/cm^2)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G Wi-Fi	2412-2462	0.84	1.21	20.5	112.20	20	0.0270	1
BLE	2402-2480	0.84	1.21	3	2.00	20	0.0005	1
BT	2402-2480	0.84	1.21	14	25.12	20	0.0060	1
5.2G Wi-Fi	5180-5240	0.69	1.17	16	39.81	20	0.0093	1
5.3G Wi-Fi	5260-5320	0.74	1.19	16	39.81	20	0.0094	1
5.5G Wi-Fi	5500-5720	0.95	1.24	17	50.12	20	0.0124	1
5.8G Wi-Fi	5745-5825	0.95	1.24	18	63.10	20	0.0156	1
NFC	13.56	0	1.00	-41	0.00008	20	<<0.0001	0.98

Note: 1. The Tune-up output power was declared by the Manufacturer.
2. The device contains a certificated module, FCC ID: 2AG6N-SNM927WF4MG
3. Refer RF test reports: 2407Z105199E-RF-01, The Max. NFC field strength is 53.92dBμV/m @ 3m = -41.28 dBm(0.00008mW) EIRP. That equal to antenna gain is 0dBi and used the EIRP value as conducted power.

Simulatneous transmission:

BT/BLE/Wifi, WWAN, NFC cans transmissions simultaneously:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

For Configuration 1:

$= S_{2.4G\ Wifi}/S_{limit\text{-}2.4G\ Wifi}+S_{WWAN}/S_{limit\text{-}WWAN}+S_{NFC}/S_{limit\text{-}NFC}$

=0.0191/1+0.1281/0.543+0.0001/0.98

=0.2553

＜1.0

For Configuration 2/3:

$= S_{2.4G\ Wifi}/S_{limit\text{-}2.4G\ Wifi}+S_{NFC}/S_{limit\text{-}NFC}$

=0.0270/1+0.0001/0.98

=0.02711

＜1.0

Result: The device meets MPE at distance 20cm.

EUT PHOTOGRAPHS

Please refer to the attachment 2407Z105199E-EXP EUT EXTERNAL PHOTOGRAPHS and 2407Z105199E-RF-INP EUT INTERNAL PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk "★".

2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.

3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.

4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor k=2 with the 95% confidence interval.

5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).

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