



RF EXPOSURE REPORT

For

Fujian Newland Payment Technology Co.,Ltd.

No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015, Fuzhou, Fujian, China

FCC ID: 2AM6U-ME30SU

Report Type:	Product Name:
Original Report	POS Terminal
Report Number:	2507V68747E-RF-04
Report Date:	2025-08-18
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507V68747E-RF-04	R1V1	2025-08-18	Initial Release

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

Product Name:	POS Terminal	
Tested Model:	ME30S	
Power Supply:	DC 5V from adapter or DC 3.7V from battery	
Maximum Conducted Peak Output Power:	Classic BT: 1.16dBm BLE: 2.39dBm	
Frequency Range:	Classic BT: 2402-2480 MHz BLE: 2402-2480MHz NFC: 13.56 MHz	
Modulation Technique:	Classic BT: GFSK BLE: GFSK NFC: ASK	
Antenna Type:	Classic BT & BLE: PCB antenna NFC: Coil antenna	
★Maximum Antenna Gain:	Classic BT & BLE: 1.463dBi	
EUT Received Status:	Good	
<i>Note:</i> 1. The Maximum Antenna Gain was declared by manufacturer. 2. The model has a variety of PNs (PN:Q7G-WG700400xx), the difference of PNs shown as below; The PN of EUT is Q7G-WG70040028.		
variable	Range of variable	Content
xx(The 13th and 14th letter)	“x” could be “0~9” or“A~Z”	“xx” means the identification of customization options, such as the language of Installation Manual and the color of the cables, which do not have any impact on the electrical specifications.
3. The EUT supplied by the applicant was received on 2025-07-09.		

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.

RF EXPOSURE EVALUATION

Applicable Standard

According to §2.1093, 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

According to KDB447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances < 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] - [\sqrt{f(\text{GHz})}] < 3.0$ for 1-g SAR and < 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz.

Measurement Result**For BT:**

The max conducted power including tune-up tolerance is 1.5 dBm (1.41 mW).
[(max. power of channel, mW)/(min. test separation distance, mm)][$\sqrt{f(\text{GHz})}$]
 $=1.41/5*(\sqrt{2.480}) = 0.4 < 3.0$

For BLE:

The max conducted power including tune-up tolerance is 2.5 dBm (1.78 mW).
[(max. power of channel, mW)/(min. test separation distance, mm)][$\sqrt{f(\text{GHz})}$]
 $=1.78/5*(\sqrt{2.480}) = 0.6 < 3.0$

For NFC

For NFC, the power of EUT: E Field@3m is 64.43 dBuV/m = -30.77dBm (0.0008mW)
Note: E[dBuV/m]=EIRP[dBm]+95.2 for d =3 m.

SAR test exclusion threshold for NFC(13.56MHz) separation distance < 50mm

$$=[474*(1 + \log(100/f(\text{MHz}))]/2$$

$$=443\text{mW}$$

$$>0.0008\text{mW}$$

Simultaneous transmission:

BLE/BT, NFC can transmissions simultaneously, the power of NFC is low and will not affect the result.

Result: Compliant. The stand-alone SAR evaluation is not necessary

EUT PHOTOGRAPHS

Please refer to the attachment 2507V68747E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2507V68747E-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).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

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