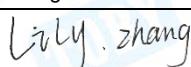
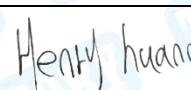




Maximum Permissible Exposure Evaluation

FCC ID: 2BASH-PAI

Report No.	:	TBR-C-202504-0041-1	
Applicant	:	POSBANK CO.,LTD	
Equipment Under Test (EUT)			
EUT Name	:	POS SYSTEM	
Model No.	:	PAI	
Series Model No.	:	Mint O, MINT ORDER, PAI 1010, PAI A87, PAI A87-1010, PAI O, PAI ORDER, PAI ORDER 1010, PAI ORDER A87, PAI ORDER A87-1010, PAI-1010, PAI A-1010 BB, PAI A-1010-IB, PAI A-1010, PAI A-1010 EB	
Brand Name	:	POSBANK	
Sample ID	:	HC-C-202504-0041-01-01	
Receipt Date	:	2025-07-09	
Test Date	:	2025-07-09 to 2025-08-21	
Issue Date	:	2025-08-21	
Standards	:	FCC Part 2.1091	
Test Method	:	KDB 447498 D01 General RF Exposure Guidance v06	
Conclusions	:	PASS	
In the configuration tested, the EUT complied with the standards specified above.			
Test By	:		Lily Zhang
Reviewed By	:		Henry Huang
Approved By	:		Ivan Su

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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Revision History



1. General Information about EUT

1.1 Client Information

Applicant	:	POSBANK CO.,LTD
Address	:	#805-808, 108, Gasan digital 2-ro ,Geumcheon-gu Seoul South Korea
Manufacturer	:	POSBANK CO.,LTD
Address	:	#805-808, 108, Gasan digital 2-ro ,Geumcheon-gu Seoul South Korea

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	POS SYSTEM						
Models No.	:	PAI, Mint O, MINT ORDER, PAI 1010, PAI A87, PAI A87-1010, PAI O, PAI ORDER, PAI ORDER 1010, PAI ORDER A87, PAI ORDER A87-1010, PAI-1010, PAI A-1010 BB, PAI A-1010-IB, PAI A-1010, PAI A-1010 EB						
Model Different	:	All these models are identical in terms of the same printed circuit board, layout and circuitry. The differences lie in the different model names and whether they have built-in batteries. With Internal Battery : Mint O, MINT ORDER, PAI 1010, PAI A87, PAI A87-1010, PAI O, PAI ORDER, PAI ORDER 1010, PAI ORDER A87, PAI ORDER A87-1010, PAI-1010, PAI A-1010 BB, PAI A-1010-IB Without Internal Battery: PAI A-1010, PAI A-1010 EB						
Product Description	:	<table border="1"> <tr> <td>Operation Frequency:</td> <td>Bluetooth&BLE: 2402MHz~2480MHz 2.4G Wi-Fi: 2412MHz~2462MHz U-NII-1: 5180MHz~5240MHz U-NII-2A: 5260MHz~5320MHz U-NII-2C: 5500MHz~5700MHz U-NII-3: 5745MHz~5825MHz</td> </tr> <tr> <td>Modulation Type:</td> <td>Bluetooth&BLE: GFSK, Pi/4-DQPSK, 8DPSK 802.11b: DSSS (DQPSK, DBPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11a: OFDM (QPSK, BPSK, 16QAM, 64QAM) 802.11n: OFDM (QPSK, BPSK, 16QAM, 64QAM) 802.11ac: OFDM (QPSK, BPSK, 16QAM, 64QAM, 256QAM)</td> </tr> <tr> <td>Antenna Gain:</td> <td>2.4-2.5GHz: 1.96dBi FPC Antenna 5150MHz-5825MHz: 2.78dBi FPC Antenna</td> </tr> </table>	Operation Frequency:	Bluetooth&BLE: 2402MHz~2480MHz 2.4G Wi-Fi: 2412MHz~2462MHz U-NII-1: 5180MHz~5240MHz U-NII-2A: 5260MHz~5320MHz U-NII-2C: 5500MHz~5700MHz U-NII-3: 5745MHz~5825MHz	Modulation Type:	Bluetooth&BLE: GFSK, Pi/4-DQPSK, 8DPSK 802.11b: DSSS (DQPSK, DBPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11a: OFDM (QPSK, BPSK, 16QAM, 64QAM) 802.11n: OFDM (QPSK, BPSK, 16QAM, 64QAM) 802.11ac: OFDM (QPSK, BPSK, 16QAM, 64QAM, 256QAM)	Antenna Gain:	2.4-2.5GHz: 1.96dBi FPC Antenna 5150MHz-5825MHz: 2.78dBi FPC Antenna
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Modulation Type:	Bluetooth&BLE: GFSK, Pi/4-DQPSK, 8DPSK 802.11b: DSSS (DQPSK, DBPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11a: OFDM (QPSK, BPSK, 16QAM, 64QAM) 802.11n: OFDM (QPSK, BPSK, 16QAM, 64QAM) 802.11ac: OFDM (QPSK, BPSK, 16QAM, 64QAM, 256QAM)							
Antenna Gain:	2.4-2.5GHz: 1.96dBi FPC Antenna 5150MHz-5825MHz: 2.78dBi FPC Antenna							
Power Rating	:	Adapter:(PS10UA050K2000UU) Input: 100-240V~, 50/60Hz 0.35A Output: 5.0V=2.0A 10.0W DC 3.7V 2000mAh Rechargeable Li-ion battery DC 3.85V 6000mAh Rechargeable Li-ion battery						
Software Version	:	ANDROID OS						
Hardware Version	:	V1.1						

Remark: The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.



2. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	± 3.50 dB ± 3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB
RF Power- Conducted	Level Accuracy: Above 1000MHz	± 0.95 dB
Power Spectral Density- Conducted	Level Accuracy: Above 1000MHz	± 3 dB
Occupied Bandwidth	Level Accuracy: 30MHz to 1000 MHz Above 1000MHz	$\pm 3.8\%$
Unwanted Emission- Conducted	Level Accuracy: 30MHz to 1000 MHz Above 1000MHz	± 2.72 dB
Temperature	/	± 0.6 °C
Humidity	/	$\pm 4\%$
Supply voltages	/	$\pm 2\%$
Time	/	$\pm 4\%$



3. Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.



4. Method of Measurement for FCC

4.1 EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.2 Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = (PG)/4\pi R^2$$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

4.3 Simultaneous transmission MPE Considerations

According to KDB447498 D01 v06: All transmitters and antennas in the host must be either evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in section 7.1. Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 . This means that:

$$\sum \text{ of MPE ratios} \leq 1.0$$



5. Test Result

Worst MPE Result							
Test Mode	Antenna	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	Max. ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
Bluetooth&BLE	/	6.756	6±1	7	1.96	20	0.00157
2.4G b	Ant1	16.46	16±1	17	1.96	20	0.01566
2.4G g	Ant1	13.34	13±1	14	1.96	20	0.00785
2.4G n20	Ant1	12.28	12±1	13	1.96	20	0.00623
2.4G n40	Ant1	12.46	12±1	13	2.78	20	0.00623
5G a	Ant1	15.85	15±1	16	2.78	20	0.01502
5G n20	Ant1	15.76	15±1	16	2.78	20	0.01502
5G n40	Ant1	15.43	15±1	16	2.78	20	0.01502
5G ac20	Ant1	15.82	15±1	16	2.78	20	0.01502
5G ac40	Ant1	15.41	15±1	16	2.78	20	0.01502
5G ac80	Ant1	14.79	15±1	16	2.78	20	0.01502

Note: The antenna gain used max. antenna gain



5.1 Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW / cm ²)
300-1,500	F/1500
1,500-100,000	1.0

For: 2402~2480MHz&2412~2462MHz&5180~5825MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as **0.01566mW / cm² < limit 1mW / cm²**.



5.2 Summary simultaneous transmission results

Bluetooth and WiFi support Synchronization transmitter

Maximum MPE ratio Bluetooth	Maximum MPE ratio WiFi	Σ MPE ratios	Limit	Results
0.00157	0.01566	0.15817	1	PASS

So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b). The RF Exposure Information page from the manual is included here for reference.

-----END OF THE REPORT-----

