

RF EXPOSURE Test Report

Product: Touch All In One PC

Trade Mark: SENKE

Model Number: SK-215BJGL-K

FCC ID: 2AH3O-SK-215BJGL-K

Prepared for

Rapsodo Pte Ltd

Blk 20 Ayer Rajah Crescent, #08-05, Singapore 139964

Prepared by

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TEST RESULT CERTIFICATION

Applicant's Name..... : Rapsodo Pte Ltd

Address : Blk 20 Ayer Rajah Crescent, #08-05, Singapore 139964

Manufacturer's Name : Rapsodo Pte Ltd

Address : Blk 20 Ayer Rajah Crescent, #08-05, Singapore 139964

Product description

Product name : Touch All In One PC

Model Number : SK-215BJGL-K

Standards : FCC CFR 47 PART 1 , 1.1310

FCC CFR 47 PART 2 , 2.1091

Test procedure..... : KDB 447498 D01 General RF Exposure Guidance v06

This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

Date of Test..... :

Date (s) of performance of tests..... : Mar. 02, 2026~Mar. 10, 2026

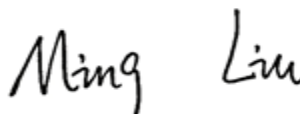
Test Result..... : **Pass**

Testing Engineer :



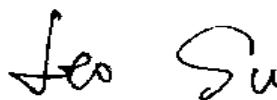
(Z o e S u)

Technical Manager :



(M i n g L i u)

Authorized Signatory :



(L e o S u)

Revision History

[illegible]

1 General Description

1.1 Description of EUT

Product name:	Touch All In One PC
Model name:	SK-215BJGL-K
Series Model:	N/A
Different of series model:	N/A
Operation frequency:	2.4GHz WIFI: 802.11b/g/n/ax20: 2412-2462MHz 802.11n/ax40: 2422-2452MHz 5GHz WIFI: U-NII-1: 5180 MHz to 5240 MHz U-NII-2A: 5260 MHz to 5320 MHz U-NII-2C: 5500 MHz to 5700 MHz U-NII-3: 5745 MHz to 5825 MHz
Modulation type:	2.4G WIFI: IEEE 802.11b: DSSS (DBPSK, DQPSK, CCK) IEEE 802.11g/n (HT20/HT40): OFDM (64QAM, 16QAM, QPSK, BPSK) 5GHz WIFI: IEEE 802.11a/n(HT20/40)/ac(VHT20/40)ax(HE20/40): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)
Bit Rate of transmitter:	2.4GHz WIFI: 802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n(20MHz) use 800 ns GI: 65.0/58.5/52.0/39.0/26.0/19.5/13.0/6.5 Mbps (MCS0~MCS7) 802.11n(40MHz) use 800 ns GI: 13.5/27/40.5/54/81/108/121.5/135Mbps 5GHz WIFI: 802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n (20MHz): MCS0-7, up to 150Mbps 802.11n (40MHz): MCS0-7, up to 300Mbps 802.11ac (20MHz): MCS0-8, up to 86.7Mbps 802.11ac (40MHz): MCS0-9, up to 200Mbps 802.11ax (20MHz): VMCS0-8, up to 143.4Mbps 802.11ax (40MHz): VMCS0-10, up to 286.8Mbps
Antenna type:	2.4GHz & 5GHz WIFI ANT1&2: External Antenna
Antenna gain:	2.4GHz WIFI: ANT 1: 4.17dBi ANT 2: 4.17dBi 5GHz WIFI: ANT1: 4.31dBi ANT2: 4.31dBi
Max. output power:	2.4GHz WIFI: 16.92dBm 5GHz WIFI: U-NII-1: 16.92dBm

	U-NII-2A: 16.53dBm U-NII-2C: 16.51dBm U-NII-3: 16.85dBm
Hardware version:	V2.0
Software version:	V1.0
Battery:	N/A
Power supply:	Input: 12V=8A
Adapter information:	Model: SPF-1208 Brand: LIANG GE Input: AC100-240V 50-60Hz Output: DC12V 8A

1.2 Test Mode

Pretest Test Mode	Description of Mode
1	TX
2	/
3	/

1.3 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.4 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
/	/	/	/

2 Test Facilities and Accreditations

2.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

2.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

2.3 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 %.

Measurement Frequency Range	U, (dB)	Note
RF frequency	2×10^{-5}	
RF power, conducted	± 0.57 dB	
Temperature	± 1 degree	
Humidity	± 5 %	

2.4 Test Software

Software name	Manufacturer	Model	Version
Conducted test system	MWRF-test	MTS 8310	2.0.0.0

3 RF Exposure

3.1 Standalone SAR test exclusion considerations

3.1.1. Limit

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b).

Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

P_d = Power density in mW/cm²

P_{out} = output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π = 3.1415926

R = distance between observation point and center of the radiator in cm (20cm)

P_d the limit of MPE, 1mW/cm².

If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

3.1.2. Test Result

2.4GHz WIFI:

Operation Frequency:

802.11b/g/n/ax20: 2412-2462MHz

802.11n/ax40: 2422-2452MHz

Antenna Type: External Antenna

2.4G WIFI antenna gain: 4.17dBi

Power density limited: 1mW/cm²

5GHz WIFI:

Operation Frequency:

U-NII-1: 5180 MHz to 5240 MHz

U-NII-2A: 5260 MHz to 5320 MHz

U-NII-2C: 5500 MHz to 5700 MHz

U-NII-3: 5745 MHz to 5825 MHz

Antenna Type: External Antenna

2.4G WIFI antenna gain: 4.31dBi

R=20cm

$mW=10^{(dBm/10)}$

2.4GHz WIFI: Antenna gain Numeric= $10^{(dBi/10)}=10^{(4.17/10)}=2.61$

5GHz WIFI: Antenna gain Numeric= $10^{(dBi/10)}=10^{(4.31/10)}=2.70$

2.4GHz WIFI(Worst):

Channel Freq. (MHz)	modulation	conducted power	Tune-up power	Max		Antenna		Evaluation result at 20cm	Power density Limits
		(dBm)	(dBm)	tune-up power		Gain		Power density(mW/cm ²)	(mW/cm ²)
				(dBm)	(mW)	(dBi)	Numeric		
2412 (ANT1)	802.11g	16.92	17±1	18	63.096	4.17	2.61	0.0328	1

5GHz WIFI(Worst):

Frequency (MHz)	Modulation	conducted power	Tune-up power	Max		Antenna		Evaluation result at 20cm	Power density Limits
		(dBm)	(dBm)	tune-up power		Gain		Power density(mW/cm ²)	(mW/cm ²)
				(dBm)	(mW)	(dBi)	Numeric		
5200 (ANT2)	802.11a	16.92	17±1	18	63.096	4.31	2.70	0.0339	1

Conclusion:

NO	Maximum MPE Value		Limits (mW/cm ²)
	2.4GHz WIFI (mW/cm ²)	5GHz WIFI (mW/cm ²)	
1	0.0328	0.0339	1

Note:

According to KDB 447498 D01 General RF Exposure Guidance v06, At the transmit simultaneously calculation method is as follows:

Transmit simultaneously MPE = $\sum$ of MPE ratios

MPE ratios = Field strengths or power density / MPE limit at the test frequency

For the max result: $0.0339 \leq 1.0$ SAR, No SAR is required.

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