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RF Exposure Evaluation Report

Report No. : CQASZ20210500028EX-03

Applicant: SHENZHEN PEICHENG TECHNOLOGY CO., LTD

Address of Applicant: 5th floor, B building, Yingxin factory, Baotian 3rd Rd., Xixiang, Bao'an Distict, Shenzhen, China .Zip code: 518126

Manufacturer: SHENZHEN PEICHENG TECHNOLOGY CO., LTD

Address of Manufacturer: 5th floor, B building, Yingxin factory, Baotian 3rd Rd., Xixiang, Bao'an Distict, Shenzhen, China .Zip code: 518126

Equipment Under Test (EUT):

Product: tablet pc

All Model No.: CP10

Test Model No.: CP10

Brand Name: COOPERS

FCC ID: 2AV6Y-CP10

47 CFR Part 1.1307

Standards: 47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

Date of Test: May 11, 2021 – Jun. 01, 2021

Date of Issue: Jun. 01, 2021

Test Result : **PASS**

Tested By:

Lewis Zhou

(Lewis Zhou)

Reviewed By:

Jun Li

(Jun Li)

Approved By:

Sheek Luo

(Sheek luo)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210500028EX-03	Rev.01	Initial report	Jun. 01, 2021

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3 General Information

3.1 Client Information

Applicant:	SHENZHEN PEICHENG TECHNOLOGY CO., LTD
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3.2 General Description of EUT

Product Name:	tablet pc
Test Model No.:	CP10
Trade Mark:	COOPERS
Hardware Version:	V1.0
Software Version:	V1.8
Product Type:	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input checked="" type="checkbox"/> Fix Location
Power Supply:	DC 3.7V from battery Charging : DC 5.0V 1A

3.3 General Description of BT

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	BT-V5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	FPC antenna
Antenna Gain:	0dBi

3.4 General Description of 2.4G WIFI

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(H40): 2422MHz~2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM IEEE for 802.11n(HT20): OFDM IEEE for 802.11n(HT40): OFDM
Antenna Type	FPC antenna
Antenna Gain	0dBi

4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

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:

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

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

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion

4.1.3 EUT RF Exposure Evaluation standalone operations

1) For BT

Antenna Gain: 0dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

GFSK mode				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.887	-1±1	0	1.000
Middle(2441MHz)	-1.962	-1±1	0	1.000
Highest(2480MHz)	-2.860	-2±1	-1	0.794
π/4DQPSK mode				
Lowest(2402MHz)	1.224	1±1	2	1.585
Middle(2441MHz)	0.148	1±1	2	1.585
Highest(2480MHz)	-0.717	0±1	1	1.259
8DPSK mode				
Lowest(2402MHz)	1.802	1±1	2	1.585
Middle(2441MHz)	0.725	1±1	2	1.585
Highest(2480MHz)	-0.180	0±1	1	1.259

Worst case:						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tuneup Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	1.802	1±1	2	1.585	0.491	3.0
Middle (2441MHz)	0.725	1±1	2	1.585	0.495	
Highest (2480MHz)	-0.180	0±1	1	1.259	0.397	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20210500028EX-01

2) For WIFI:

Antenna Gain: 0dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

802.11b mode					
Test channel	Antenna	Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2412MHz)	ANT1	6.59	7±1	8	6.310
Middle(2437MHz)	ANT1	7.25	8±1	9	7.943
Highest(2462MHz)	ANT1	8.53	8±1	9	7.943
802.11g mode					
Test channel	Antenna	Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2412MHz)	ANT1	7.55	7±1	8	6.310
Middle(2437MHz)	ANT1	8.27	8±1	9	7.943
Highest(2462MHz)	ANT1	6.74	6±1	7	5.012
802.11n(HT20) SISO mode					
Test channel	Antenna	Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2412MHz)	ANT1	6.70	7±1	8	6.310
Middle(2437MHz)	ANT1	7.46	8±1	9	7.943
Highest(2462MHz)	ANT1	5.84	6±1	7	5.012
802.11n(HT40) SISO mode					
Test channel	Antenna	Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2422MHz)	ANT1	5.79	5±1	6	3.981
Middle(2437MHz)	ANT1	6.49	6±1	7	5.012
Highest(2452MHz)	ANT1	6.32	6±1	7	5.012

Worst case:						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tuneup Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
802.11b-2462MHz	8.53	8±1	9	7.943	2.493	3.0
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20210500028EX-02

3) EUT RF Exposure Evaluation simultaneous transmission operations

According to 865664D02 2.2 d) 1):

The sum of the ratios of the spatially averaged results to the applicable frequency dependent MPE limits :

Simultaneous transmission mode	The sum of the ratios	Result
2.4G WIFI + BT	2.493+0.495	2.988 \leq 3.0