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RF Exposure Evaluation Report

Report No.: CQASZ20260601191E-03
Applicant: AC Infinity Inc.
Address of Applicant: 21880 Baker Parkway, City of Industry, CA 91789 USA
Equipment Under Test (EUT):
EUT Name: Camera
Model No.: AC-APM7, AC-APC7, AC-APC3, AC-APC5, AC-APC9, AC-APF3, AC-APF5, AC-APF7, AC-APF9, AC-APK3, AC-APK5, AC-APK7, AC-APK9, AC-APM3, AC-APM5, AC-APM7, AC-APM9
Test Model No.: AC-APM7
Brand Name: AC INFINITY
FCC ID: 2AXMF-APM
Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt: 2026-6-8
Date of Test: 2026-6-8 to 2026-8-19
Date of Issue: 2026-8-31
Test Result: **PASS***

*In the configuration tested, the EUT complied with the standards specified above

Tested By: Azir Wang
(Azir Wang)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20260601191E-03	Rev.01	Initial report	2026-8-31

Note:

Model No.:AC-APM7, AC-APC7, AC-APC3,

AC-APC5, AC-APC9, AC-APF3, AC-APF5, AC-APF7, AC-APF9, AC-APK3, AC-APK5, AC-APK7,

AC-APK9, AC-APM3, AC-APM5, AC-APM7, AC-APM9

Their electrical circuit design, layout, components used and internal wiring are identical,

Only the Model No. is different.

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3 General Information

3.1 Client Information

Applicant:	AC Infinity Inc.
Address of Applicant:	21880 Baker Parkway, City of Industry, CA 91789 USA
Manufacturer:	AC Infinity Inc.
Address of Manufacturer:	21880 Baker Parkway, City of Industry, CA 91789 USA
Factory:	Guangdong Seneasy Intelligent Technology Co.,Ltd
Address of Factory:	No.10,Dongsheng Middle Road,Chenjiang Street,HUIZHOU CITY Guangdong 516029

3.2 General Description of EUT

Product Name:	Camera
Model No.:	AC-APM7, AC-APC7, AC-APC3, AC-APC5, AC-APC9, AC-APF3, AC-APF5, AC-APF7, AC-APF9, AC-APK3, AC-APK5, AC-APK7, AC-APK9, AC-APM3, AC-APM5, AC-APM7, AC-APM9
Test Model No.:	AC-APM7
Trade Mark:	AC INFINITY
Software Version:	V1.3.2
Hardware Version:	V1.1
EUT Power Supply:	Adapter: MODEL:KA12C-0502000US INPUT:100-240V~50/60Hz 0.35A Max OUTPUT:5V $\overline{\text{---}}$ 2000mA

3.3 General Description of 2.4G WIFI Classic

Operation Frequency:	IEEE 802.11b/g/n(HT20)/ax(HE20): 2412MHz to 2462MHz IEEE 802.11n(HT40/HE40): 2422MHz to 2452MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11ax(HE20 and HE40): OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20/HE20: 11 Channels IEEE 802.11n HT40/HE40: 7 Channels
Channel Separation:	5MHz
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps/72.2Mbps IEEE for 802.11n(HT40) : 13.5Mbps/27Mbps/40.5Mbps/54Mbps/81Mbps/108Mbps/121.5Mbps/135Mbps IEEE for 802.11ax(HE20): 8.6Mbps/17.2Mbps/25.8Mbps/34.4Mbps/51.6Mbps/68.8Mbps/77.4Mbps /86.7Mbps/103.3Mbps/114.7Mbps/129.0Mbps/143.4Mbps IEEE for 802.11ax(HE40): 17.2Mbps/34.4Mbps/51.6Mbps/68.8Mbps/103.2Mbps/137.6Mbps/154.9Mbps /173.3Mbps/206.5Mbps/229.4Mbps/258.1Mbps/286.8Mbps
Sample Type:	☒ Mobile ☐ Portable
Antenna Type:	FPC antenna
Antenna Gain:	4.76dBi

3.4

3.5 General Description of 5G WIFI Classic

Operation Frequency:	IEEE 802.11a/n/ac/ax(20M): 5150MHz ~5250 MHz IEEE802.11n/ac/ax(40M): 5150MHz ~5250 MHz IEEE 802.11a/n/ac/ax(20M): 5250MHz ~5350 MHz IEEE802.11n/ac/ax(40M): 5250MHz ~5350 MHz IEEE 802.11a/n/ac/ax(20M): 5470MHz ~5725 MHz IEEE802.11n/ac/ax(40M): 5470MHz ~5725 MHz IEEE 802.11a/n/ac/ax(20M): 5725MHz ~5850 MHz IEEE802.11n/ac/ax(40M): 5725MHz ~5850 MHz
Channel Numbers:	IEEE 802.11a/n/ac/ax(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac/ax(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11a/n/ac/ax(20M): 5250MHz ~5350MHz/ 4 channel IEEE 802.11n/ac/ax(40M): 5250MHz ~5350MHz/ 2 channel IEEE 802.11a/n/ac/ax(20M): 5470MHz ~5725MHz/ 9 channel IEEE 802.11n/ac/ax(40M): 5470MHz ~5725MHz/ 4 channel IEEE 802.11a/n/ac/ax(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac/ax(40M): 5725MHz ~5850MHz/ 2 channel
Type of Modulation:	OFDM, OFDMA
Sample Type:	☒ Mobile ☐ Portable
Test Software of EUT:	WindTerm
Antenna Type:	FPC antenna
Antenna gain:	5.14dBi
Cable loss:	1.0 dB

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.

4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

According to FCC Part1.1310: 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 part1.1307(b)

TABLE 1—LIMITS FOR 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 Exposures				
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
300–1500			f/300	6
1500–100,000			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
300–1500			f/1500	30
1500–100,000			1.0	30

F= Frequency in MHz

Friis Formula

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

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

4.1.2 Test Procedure

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

4.1.3 EUT RF Exposure

1) For 2.4G WIFI

Antenna Gain: 4.76dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.99 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

11B mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	14.23	14.5±1	15.5	35.48
Middle(2437MHz)	14.84	15.0±1	16.0	39.81
Highest(2462MHz)	13.87	14.0±1	15.0	31.62

The worst case:

Maximum tune-up Power (mW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
39.81	4.76	0.0236985245	1.0	PASS

Note: 1) Refer to report No. CQASZ20260601191E-03 for EUT test Max Conducted AV Output Power value.

2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (39.81 * 2.99) / (4 * 3.1416 * 20^2) = 0.0236985245$

2) For 5G WIFI Classic

Antenna Gain: 5.14dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.27 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

11A mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5260MHz)	9.56	10.0±1	11.0	12.59
Middle(5280MHz)	5.80	6.0±1	7.0	5.01
Highest(5320MHz)	5.57	6.0±1	7.0	5.01

The worst case:

Maximum tune-up Power (mW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
12.59	5.14	0.0081800293	1.0	PASS

Note: 1) Refer to report No. CQASZ20260601191E-02 for EUT test Max Conducted AV Output Power value.

2) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (12.59 \cdot 3.27) / (4 \cdot \pi \cdot 20^2) = 0.0081800293$

*** END OF REPORT ***