



Maximum Permissible Exposure Evaluation

FCC ID: 2BAYJ-ID600

1. Client Information

Applicant	:	ACCION INNOVATIONS LLC
Address	:	17528 ROWLAND ST, G12 CITY OF INDUSTRY, CA 91748
Manufacturer	:	ACCION INNOVATIONS LLC
Address	:	17528 ROWLAND ST, G12 CITY OF INDUSTRY, CA 91748

2. General Description of EUT

EUT Name	:	Dash Camera
Models No.	:	iD600, GD100, GD200, GD300, GD500, GD800, GD850 iD120, iD210, iD220, iD310, iD320, iD400, iD410, iD420, iD430, iD510, iD520, iD530, iD610, iD620, iD700, iD710, iD720, iD800, iD810, iD820, iD900, iD910, iD920
Model Different	:	All PCB boards and circuit diagrams are the same, the only difference is that appearance color.
Product Description	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz U-NII-1: 5180MHz~5240MHz
	Antenna Gain:	4.66dBi FPC Antenna for 2.4G WIFI 2.44dBi FPC Antenna for 5G WIFI
Power Rating	:	USB Input: DC 5V/1A
Software Version	:	XX01_V1.0.0.3-J
Hardware Version	:	V01
Connecting I/O Port(S)	:	Please refer to the User's Manual
Remark	:	the evaluation report used the EUT(RW-C-202303-0363-1-2#).

MPE Calculations for WIFI

1. EUT Operation Condition:

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

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

3. Simultaneous transmission MPE Considerations

According to KDB447498: 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:

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



4. Test Result:

Mode	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]	Limit of Power Density (mW/ cm ²) (S)
802.11b	15.315	15±1	16	4.66	20	0.0232	1
	15.978	15±1	16	4.66	20	0.0232	1
	15.617	15±1	16	4.66	20	0.0232	1
802.11g	15.345	15±1	16	4.66	20	0.0232	1
	16.051	16±1	17	4.66	20	0.0292	1
	14.939	14±1	15	4.66	20	0.0184	1
802.11n(HT20)	15.823	15±1	16	4.66	20	0.0232	1
	15.295	15±1	16	4.66	20	0.0232	1
	14.984	14±1	15	4.66	20	0.0184	1
802.11n(HT40)	13.703	13±1	14	4.66	20	0.0146	1
	13.432	13±1	14	4.66	20	0.0146	1
	11.522	11±1	12	4.66	20	0.0092	1

Mode	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]	Limit of Power Density (mW/ cm ²) (S)
802.11a	13.955	13±1	14	2.44	20	0.0088	1
	14.516	14±1	15	2.44	20	0.0110	1
	15.236	15±1	16	2.44	20	0.0139	1
802.11ac (VHT20)	14.069	14±1	15	2.44	20	0.0110	1
	14.124	14±1	15	2.44	20	0.0110	1
	15.082	15±1	16	2.44	20	0.0139	1
802.11ac (VHT40)	11.597	11±1	12	2.44	20	0.0055	1
	13.263	13±1	14	2.44	20	0.0088	1
802.11ac (VHT80)	11.237	11±1	12	2.44	20	0.0055	1
802.11n(HT20)	13.720	13±1	14	2.44	20	0.0088	1
	14.191	14±1	15	2.44	20	0.0110	1
	15.200	15±1	16	2.44	20	0.0139	1
802.11n(HT40)	12.391	12±1	13	2.44	20	0.0070	1
	13.999	13±1	14	2.44	20	0.0088	1



5. 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 2.4WIFI: 2412~2462 MHz & 5G WIFI: 5180MHz~5240MHz

MPE limit S: 1mW/ cm²

The worst MPE is calculated as **0.0292mW/ cm² < limit 1mW / cm²**. 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.

Note

For a more detailed features description, please refer to the RF Test Report.

6. Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

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

