

Report No.: MAX25030223P01-R01RF

RF EXPOSURE EVALUATION METHOD

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)

EUT Specification

| FCC ID | 2A456-VD02 |
|-------------------------|--|
| EUT | Body Camera |
| Frequency band | 🛛 WLAN: 2.412GHz ~ 2.462GHz |
| (Operating) | U WLAN: 5.150GHz ~ 5.250GHz |
| | 🗌 WLAN: 5.725GHz ~ 5.850GHz |
| 0, 0, | Others BT:2402-2480MHz |
| Device category | \boxtimes Portable (<20cm separation) |
| | Mobile (>20cm separation) |
| | |
| Exposure classification | Occupational/Controlled exposure (S = 5mW/cm2) |
| | General Population/Uncontrolled exposure (S=1mW/cm2) |
| Antenna diversity | 🛛 Single antenna |
| | Multiple antennas |
| | Tx diversity |
| | Rx diversity |
| | Tx/Rx diversity |
| Max. output power | 8.24dBm (0.00667W) |
| Antenna gain (Max) | 0.64 dBi |
| Evaluation applied | MPE Evaluation |
| In Tou | SAR Evaluation |
| | |



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SAR Test Exclusion Thresholds for 100 MHz $\,$ - 6 GHz and \leq 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

| MHz | 5 | 10 | 15 | 20 | 25 | mm |
|------|----|----|-----|-----|-----|-----------------------------|
| 150 | 39 | 77 | 116 | 155 | 194 | 2 |
| 300 | 27 | 55 | 82 | 110 | 137 | |
| 450 | 22 | 45 | 67 | 89 | 112 | |
| 835 | 16 | 33 | 49 | 66 | 82 | |
| 900 | 16 | 32 | 47 | 63 | 79 | |
| 1500 | 12 | 24 | 37 | 49 | 61 | SAR Test |
| 1900 | 11 | 22 | 33 | 44 | 54 | Exclusion Threshold (mW) |
| 2450 | 10 | 19 | 29 | 38 | 48 | |
| 3600 | 8 | 16 | 24 | 32 | 40 |] |
| 5200 | 7 | 13 | 20 | 26 | 33 | |
| 5400 | 6 | 13 | 19 | 26 | 32 | |
| 5800 | 6 | 12 | 19 | 25 | 31 |] |

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • $[\sqrt{f(GHz)}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,where f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation 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.



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| Mode nc | Freque ncy | ncy ed power Power | max. power | Antenna Gain (dBi) | min. test separation distance | [√f(GHz)] | Result | Limit |
|--|---------------|-----------------------|---------------|--------------------------|-------------------------------------|-----------|--------|-------|
| | (MHz) | | (mW) | | (mm) | | | |
| 2412 802.11b 2437 2462 | 2412 | 8.24 | 6.67 | 0.64 | 5 | 1.553 | 2.4000 | 3 |
| | 2437 | 8.15 | 6.53 | 0.64 | 5 | 1.561 | 2.3630 | 3 |
| | 7.98 | 6.28 | 0.64 | 5 | 1.569 | 2.2839 | 3 | |
| 2412 802.11g 2437 2462 | 2412 | 7.85 | 6.10 | 0.64 | 5 | 1.553 | 2.1939 | 3 |
| | 2437 | 7.54 | 5.68 | 0.64 | 5 | 1.561 | 2.0533 | 3 |
| | 7.34 | 5.42 | 0.64 | 5 | 1.569 | 1.9709 | 3 | |
| 802.11n (HT20) 2412 2437 2462 | 2412 | 7.42 | 5.52 | 0.64 | 5 | 1.553 | 1.9871 | 3 |
| | 2437 | 6.98 | 4.99 | 0.64 | 5 | 1.561 | 1.8049 | 3 |
| | 2462 | 6.64 | 4.61 | 0.64 | 5 | 1.569 | 1.6775 | 3 |
| 802.11n (HT40) | 2422 | 6.85 | 4.84 | 0.64 | 5 | 1.556 | 1.5070 | 3 |
| | 2437 | 6.34 | 4.31 | 0.64 | 5 | 1.561 | 1.3442 | 3 |
| | 2452 | 6.17 | 4.14 | 0.64 | 5 | 1.566 | 1.2966 | 3 |

Maximum measured transmitter power.

Remark: The best case gain of the antenna is 0.64dBi.

0.64dBi logarithmic terms convert to numeric result is nearly 1.16

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)] \cdot [$\sqrt{f}(GHz)$]

The test Result is less than 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR. **Conclusion:** No SAR is required.