Excellence in Compliance Testing

Certification Exhibit

FCC ID: 2AA9WV500
IC: 11665A-V500

FCC Rule Part: 15.247
IC Radio Standards Specification: RSS-210

ACS Project Number: 14-2094

Manufacturer: VSN Technologies, Inc.
Model: V500

RF Exposure

General Information:

Applicant: VSN Technologies, Inc.
ACS Project: 14-2094
Device Category: Portable
Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Printed Inverted-F Antenna (PIFA)
Antenna Gain: -3.05 dBi
Maximum Transmitter Conducted Power: 4.11 dBm, 2.5763 mW
Maximum System EIRP: 1.06 dBm, 1.2764 mW

Justification for Exclusion:

The VSN Technologies model V500 is a remote control for the V360 camera which includes a Bluetooth Low Energy (BLE) transceiver. The unit is a hand-held device and operates from 2402 MHz to 2480 MHz. Based on the equipment's typical mode of operation, the justification for SAR test exclusion is provided below:

Minimum Distance: 5 mm
Highest Operating Frequency: 2480 MHz
Maximum System Power: 2.5673 mW

Per KDB 447498 D01 General RF Exposure Guidance v05r02, 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:

[(max. power of channel, including tune-up tolerance, mW)/(min.test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.
= (2.5763 / 5) * (√2.48)
= 0.51526 * 1.575
= 0.8

Based on the results above, the unit meets both body and extremity SAR exclusion requirements.