1 Safety Human Exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields RESULT: **Pass**

Test Specification

Test standard	:	CFR47 FCC Part 2: Section 2.1091
		CFR47 FCC Part 1: Section 1.1310
		FCC KDB Publication 447498 v06, section 7

FCC ID: 2AHVL-SRVO-SR260

➢ **FCC requirements**

FCC requirement: Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20cm normally can be maintained between the user and the device.

MPE Calculation Method according to KDB 447498 v06

Power Density: $S_{(Mw/cm^2)} = PG/4\Pi r^2$ or $EIRP/4\Pi r^2$

Where:

S = power density (mW/cm^2)

P = power input to the antenna (mW)

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 (cm)

From the maximum conducted output power, the minimum mobile separation distance, d=20 cm, as well as the antenna gain, the RF power density can be calculated as below:

$S_{(Mw/cm2)} = PG/4\Pi r_2$

1) **EUT RF Exposure Evaluation operations, Worst Case mode**

Test Mode	Measured Power (dBm)	Antenna Gain (dBi)	Measured e.i.r.p (dBm)	$S_{(Mw/cm^2)} = PG/4\Pi r^2$	Limit (Mw/cm^2)
2.4GHz band Wi-Fi	13.05	4.52	17.57	0.005	1.0
BLE	1.67	4.52	6.19	0.0004	1.0
BR+EDR	4.42	4.52	8.94	0.0008	1.0

The EUT power density for transmit simultaneously is 0.0062 mW/cm^2 it is less than the limit 1.0 mW/cm^2