EMC Test Data

Client:	Neato Robotics, Inc.	Job Number:	PR087406
Model:	BotVac D7 Connected	T-Log Number:	TL087406
		Project Manager:	Christine Krebill
Contact:	Kelvin Law	Project Coordinator:	-
Standard:	FCC 15E, RSS-247	Class:	N/A

Maximum Permissible Exposure

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 12/26/2018
Test Engineer: Deniz Demirci

General Test Configuration

Calculation uses the free space transmission formula:

$$S = (PG)/(4\ \pi d^2)$$

Where: S is power density (W/m^2), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

Summary of Results

Device complies with Power Density requirements at 20 cm separation:	Yes

Deviations From The Standard

No deviations were made from the requirements of the standard.

FCC MPE Calculation
For 1.5-15 GHz single transmitters (General use)

Freq.	EUT Power		Cable Loss	Ant Gain	Power at Ant	EIRP	Power Density (S) at 20 cm	MPE Limit at 20 cm
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2
2462	13.2	20.9	0	2.1	13.2	33.88	0.007	1.000
5240	9.6	9.1	0	0.7	9.6	10.72	0.002	1.000
5745	12.6	18.2	0	0.1	12.6	18.62	0.004	1.000

ISED Canada MPE Calculation
For 300-6000 MHz single transmitters (General use)

Freq.	EUT Power		Cable Loss	Ant Gain	Power at Ant	EIRP	Power Density (S) at 20 cm	MPE Limit at 20 cm
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2
2462	13.2	20.9	0	2.1	13.2	33.88	0.007	0.544
5240	9.6	9.1	0	0.7	9.6	10.72	0.002	0.912
5745	12.6	18.2	0	0.1	12.6	18.62	0.004	0.971