EMC Test Data

WE ENGINEER SUCCESS						
Client:	Neato Robotics	Job Number:	J97654			
Model	Botvac Connected	T-Log Number:	T97691			
Model.	Botvac Connected	Project Manager:	Christine Krebill			
Contact:	Matt Tenuta	Project Coordinator:	-			
Standard:	FCC 15.247, 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: 8/3/2015 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/m²), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

Summary of Results

pplies with Power Density requirements at 20cm separation:	Device complies with Power Density requirements at separate
If not, required separation distance (in cm):	If not, required separation distance (in

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.



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FCC MPE Calculation Use: General Antenna: -2.5 dBi

FOR 1.5-15 GHz single transmitters (General use)

	EUT		Cable	Ant	Power		Power Density (S)	MPE Limit
Freq.	Power		Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2
2412	19.3	85.1	0	-2.5	19.3	47.86	0.010	1.000
2437	20.5	112.2	0	-2.5	20.5	63.10	0.013	1.000
2462	20.1	102.3	0	-2.5	20.1	57.54	0.011	1.000

Industry Canada MPE Calculation

Use: General Antenna: -2.5 dBi

FOR 300-6000 MHz single transmitters (General use)

1 011 000 00	OU WILL SILL	gic transmit	tors (Geriore	ii use,				
	EUT Power		Cable	Ant	Power		Power Density (S)	MPE Limit
Freq.			Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm ²	mW/cm ²
2412	19.3	85.1	0	-2.5	19.3	47.86	0.010	0.537
2437	20.5	112.2	0	-2.5	20.5	63.10	0.013	0.540
2462	20.1	102.3	0	-2.5	20.1	57.54	0.011	0.544

Maximum eirp is calculated as follows:

Uses the peak power for each channel (where given) as a worst case MPE