

Test Report Number: 4185288EMC05 Rev: 0

ADTRAN, Inc. / BSAP-3045

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RF Exposure Report

Project Number: 4185288

Report Number: 4185288EMC05 Revision Level: 0

Client: ADTRAN, Inc.

Equipment Under Test: Indoor Wireless Access Point

Model: BSAP-3045

FCC ID: HDCBSAP304X

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498

FCC OET Bulletin 65 Supplement

Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1 General Information

1.1 Client Information

Name: ADTRAN, Inc.

Address: 901 Explorer Blvd.

City, State, Zip, Country: Huntsville, AL 35806, USA

1.2 Test Laboratory

Name: SGS North America, Inc.

Address: 620 Old Peachtree Road NW, Suite 100

City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA

Type of lab: Testing Laboratory

Certificate Number: 3212.01

1.3 General Information of EUT

Type of Product: Indoor Wireless Access Point

Model Number: BSAP-3045

Serial Number: 30454316050013

Frequency Ranges: 2400-2483.5MHz, 5725-5850MHz

Data Modes (2.4GHz): 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40),

Data Modes (5GHz): 802.11a, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20),

802.11ac (VHT40), 802.11ac (VHT80)

Antenna: Ventev, 2.4/5 GHz, 12/13 dBi Directional Antenna (P/N:

M6012013O3D36820)

Rated Voltage: 48Vdc (PoE) Test Voltage: 48Vdc (PoE)

Sample Received Date: 01 August 2017

Dates of testing: 08 – 16 August 2017

1.4 Operating Modes and Conditions

For this assessment, the EUT's maximum conducted power while maintaining compliance with the EIRP limits was considered.

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2 RF Exposure

2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 Test Method

Using the maximum measured conducted power and provided directional antenna gains, the power density was calculated.

2.3 Single transmission RF Exposure Levels

Band of Operation		Conducted Power w/tolerance	Antenna Gain	Cable Loss	Averag	je EIRP	Distance (R)	Power Density EIRP _{Avg} /(4πR²)	FCC	% of Limit	Verdict
Туре	MHz	dBm			dBm	mW	cm	mW/cm²	mW/cm ²		
WLAN 2.4	2400-2483.5	24.0	12.0	0.0	36.0	3981	31	0.330	1.00	33%	Pass
WLAN 5 GHz (UNII-1)	5150-5250	23.0	13.0	0.0	36.0	3981	31	0.330	1.00	33%	Pass
WLAN 5.8 GHz (UNII-3)	5725-5850	23.0	13.0	0.0	36.0	3981	31	0.330	1.00	33%	Pass

2.4 Simultaneous transmission RF Exposure Levels

Simultaneous Transmissions - Percent of Limit						
	WLAN 2.4	WLAN 5 GHz	WLAN 5.8 GHz			
	VVLAIN 2.4	(UNII-1)	(UNII-3)			
WLAN 2.4		66%	66%			
WLAN 5 GHz (UNII-1)	66%					
WLAN 5.8 GHz (UNII-3)	66%					

Note: Highlighted color simply aids in identifying the highest level (Percentage of the limit).

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