RADIO FREQUENCY EXPOSURE

LIMIT

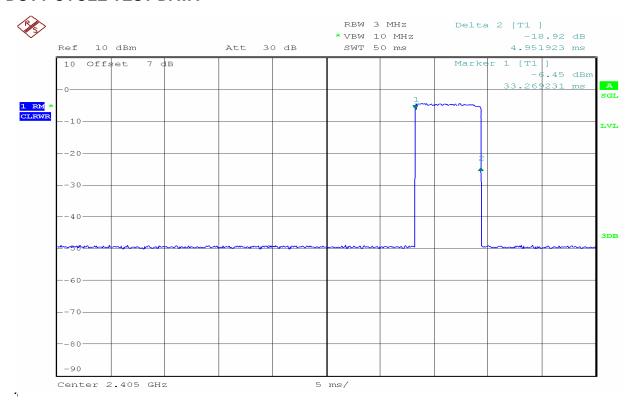
According to §15.247(i) and §15.407(f), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b) of this chapter.

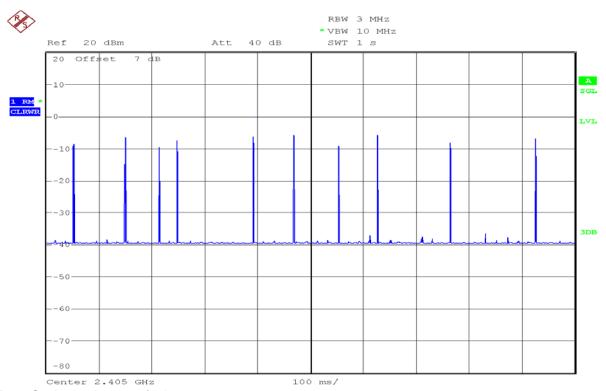
EUT Specification

EUT	ST24******* (The "*" can be 0 to 9, a to z, A to Z, blank or any					
201	symbol, for marketing purpose.)					
Frequency band (Operating)	 WLAN: 2.412GHz ~ 2.462GHz WLAN: 5.15GHz ~ 5.25GHz WLAN: 5.25GHz ~ 5.35GHz WLAN: 5.47GHz ~ 5.725GHz WLAN: 5.725GHz ~ 5.85GHz Zigbee:2.405GHz ~ 2.48GHz Others 					
Device category	☑ Portable (<20cm separation)☑ Mobile (>20cm separation)☑ Others					
Antenna diversity	☐ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity					
Max. AVG output power	Worst case: 2.4GHz 16.15dBm 5.745GHz 15.19dBm					
Antenna gain (Max)	Dipole antennas for 2.4GHz Gain 0 dBi Dipole antennas for 5GHz Gain 0 dBi					
Evaluation applied						



DUTY CYCLE TEST DATA





Report No: C150407R01 FCC ID: 2ACS5-ST24 Date of Issue :April 23, 2015

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), 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 of the Commission's guidelines.

 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)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, ¹⁶ where

- · f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is ≤ 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. According to KDB 447498, no stand-alone required for DTS antenna, and no simultaneous SAR measurement is required .

Frequency (MHz)	Distance (mm)	Conducted Average Power (dBm)	Conducted Average Power (mw)	Duty cycle	Time source average power (mw)	Calculation results	Limit
2405	5	15.82	38.19	4.95%	1.89	0.586	3
2440	5	16.15	41.21	4.95%	2.04	0.637	3
2480	5	15.97	39.54	4.95%	1.96	0.616	3
5745	5	15.56	30.62	4.95%	1.52	0.727	3
5785	5	18.65	30.41	4.95%	1.51	0.724	3
5825	5	18.57	33.04	4.95%	1.64	0.789	3

Note1: Time source average power=Conducted Average Power* Duty cycle **Note2:** Calculation results=Time source average power/Distance* √ Frequency

Test Result: Pass