

9. POWER SPECTRAL DENSITY TEST

9.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Jun.30,19	1 Year
2.	Attenuator	Agilent	8491B	MY39269201	Oct.13,19	1 Year
3.	RF Cable	EMCI	EMC102-KM-K M 3500	170702	May.13,19	1 Year

9.2.Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

9.3.Test Procedure

Use the test method descried in ANSI C63.10 clause 11.10.2:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times RBW]$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

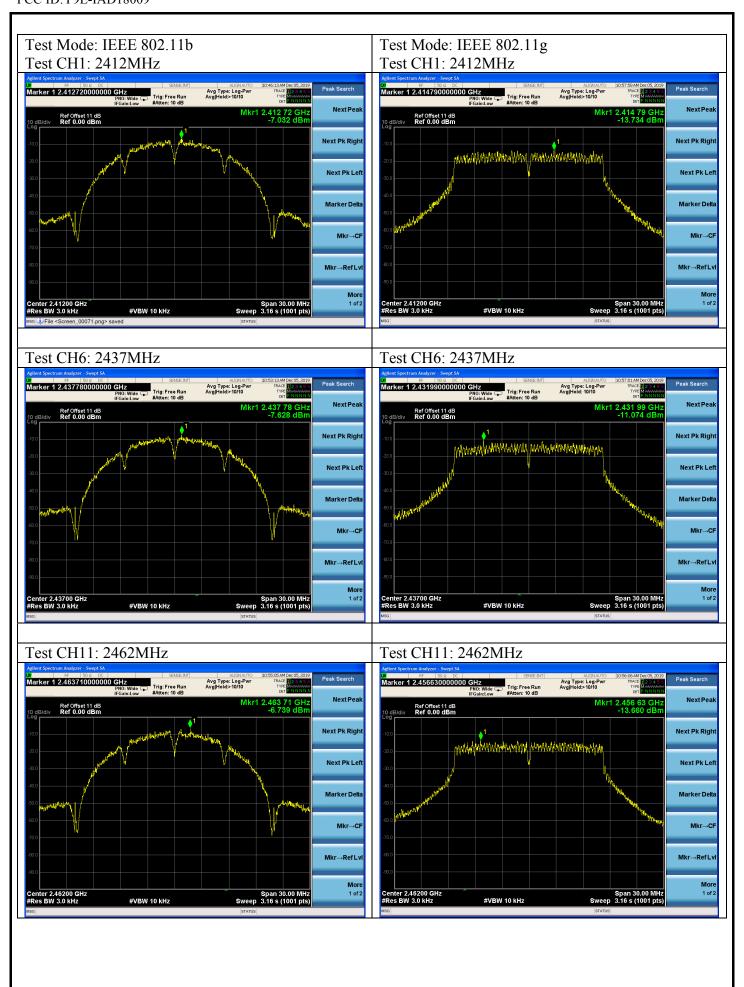


9.4.Test Results

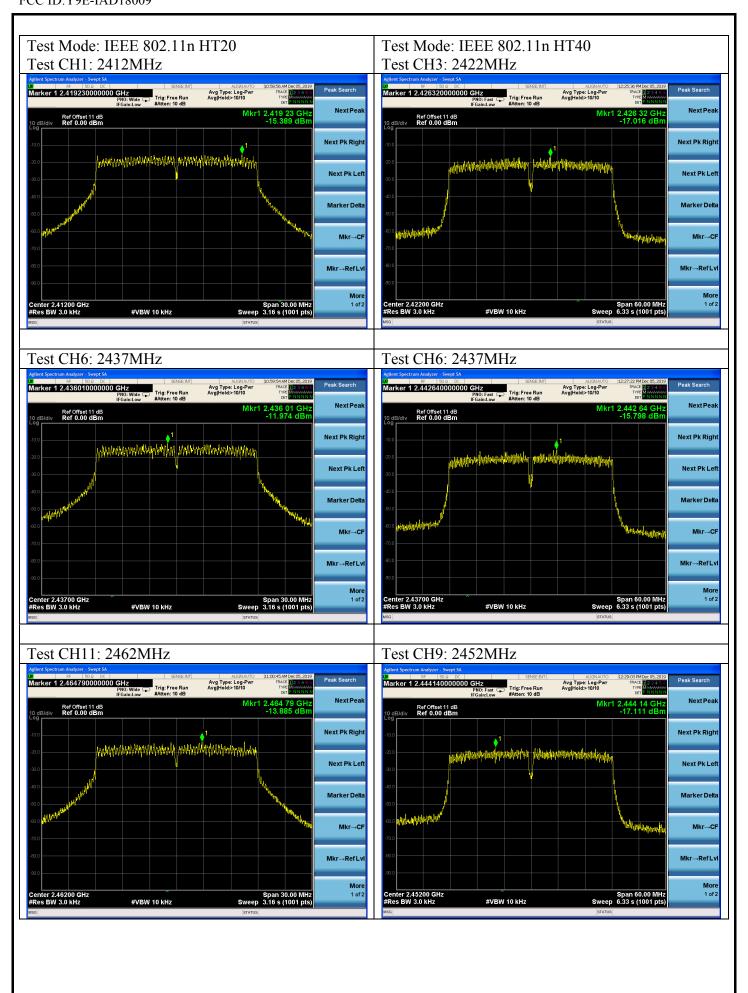
EUT: Smart Signboard					
M/N: IAD-18001					
Test date: 2019-12-05	Pressure: 102.3±1.0 kpa	Humidity: 53.6±3.0%			
Tested by: Allen	Test site: RF site	Temperature: 25.5±0.6 °C			

Test Mode	СН	Power density (dBm/3KHz)	Limit (dBm/3KHz)	
	CH1	-7.032		
11b	CH6	-7.628	8	
	CH11	-6.739		
	CH1	-13.734		
11g	CH6	-11.074	8	
	CH11	-13.660		
11	CH1	-15.389		
11n HT20	CH6	-11.974	8	
П120	CH11	-13.885		
11	CH3	-17.016		
11n HT40	CH6	H6 -15.798 8		
П140	CH9	-17.111		
Conclusion: PA	ASS			

AUDIX Technology (Shenzhen) Co., Ltd.



AUDIX Technology (Shenzhen) Co., Ltd.





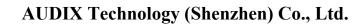
10. ANTENNA REQUIREMENT

10.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. Antenna Connected Construction

The antennas used for this product are Internal antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 1.98dBi.





11.DEVIATION TO TEST SPECIFICATIONS					
[NONE]					
	THE END			•••••	