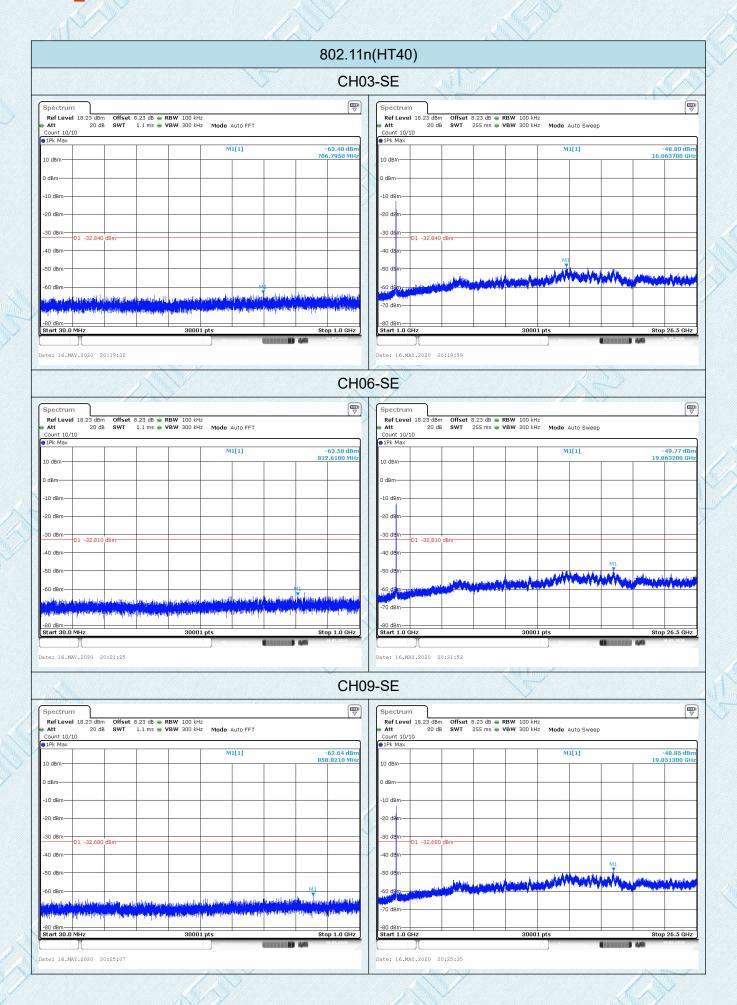
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3.7. Band Edge Emissions(Radiated)

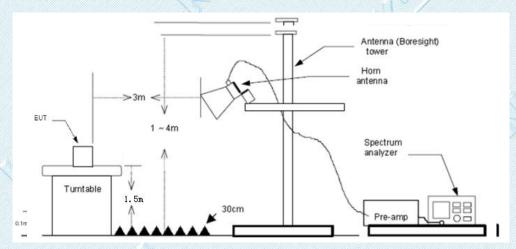
Limit

Restricted Frequency Band	(dBuV/m)(at 3m)				
(MHz)	Peak	Average			
2310 ~2390	74	54			
2483.5 ~2500	74	54			

Note: All restriction bands have been tested, only the worst case is reported.

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Test Configuration



Test Procedure

- The EUT was setup and tested according to ANSI C63.10:2013 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- 5. The receiver set as follow:
 - RBW=1MHz, VBW=3MHz PEAK detector for Peak value.
 - RBW=1MHz, VBW=10Hz with Average detector for Average Value.

Test Mode

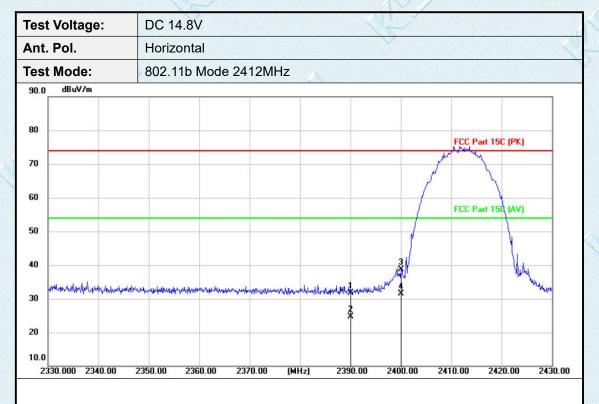
Please refer to the clause 2.3.

Test Results

Note:

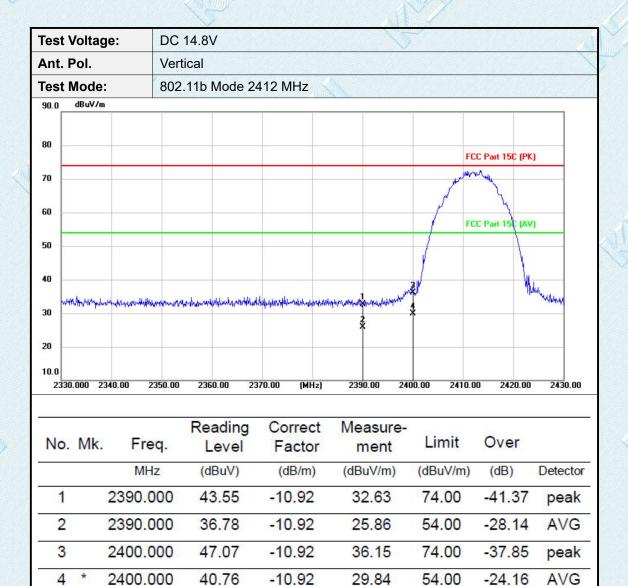
- 1.Measurement = Reading level + Correct Factor
- Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor
- 2.Pre-scan 802.11b, 802.11g, 802.11n(HT20) and 802.11n(HT40) mode, and found the 802.11b mode which it is worse case, so only show the test data for worse case.



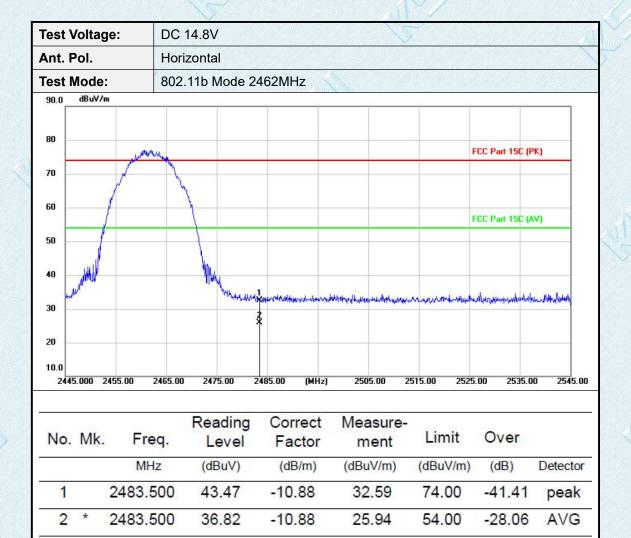


Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
	2390.000	42.59	-10.92	31.67	74.00	-42.33	peak
	2390.000	35.56	-10.92	24.64	54.00	-29.36	AVG
	2400.000	49.57	-10.92	38.65	74.00	-35.35	peak
*	2400.000	42.46	-10.92	31.54	54.00	-22.46	AVG
		MHz 2390.000 2390.000 2400.000	Mk. Freq. Level MHz (dBuV) 2390.000 42.59 2390.000 35.56 2400.000 49.57	Mk. Freq. Level Factor MHz (dBuV) (dB/m) 2390.000 42.59 -10.92 2390.000 35.56 -10.92 2400.000 49.57 -10.92	Mk. Freq. Level Factor ment MHz (dBuV) (dB/m) (dBuV/m) 2390.000 42.59 -10.92 31.67 2390.000 35.56 -10.92 24.64 2400.000 49.57 -10.92 38.65	Mk. Freq. Level Factor ment Limit MHz (dBuV) (dB/m) (dBuV/m) (dBuV/m) 2390.000 42.59 -10.92 31.67 74.00 2390.000 35.56 -10.92 24.64 54.00 2400.000 49.57 -10.92 38.65 74.00	Mk. Freq. Level Factor ment Limit Over MHz (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 2390.000 42.59 -10.92 31.67 74.00 -42.33 2390.000 35.56 -10.92 24.64 54.00 -29.36 2400.000 49.57 -10.92 38.65 74.00 -35.35

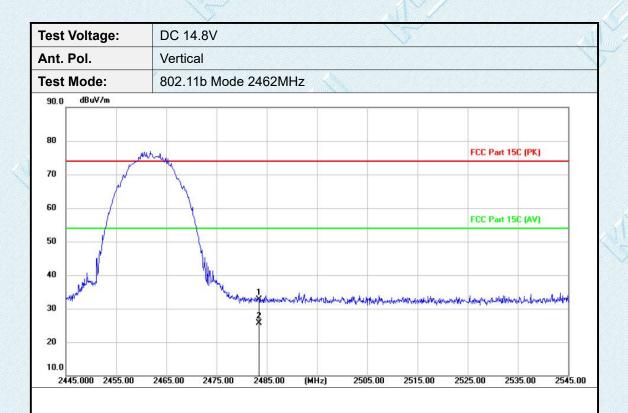












No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2483.500	43.68	-10.88	32.80	74.00	-41.20	peak
2	*	2483.500	36.52	-10.88	25.64	54.00	-28.36	AVG





3.8. Spurious Emission (Radiated)

Limit

Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

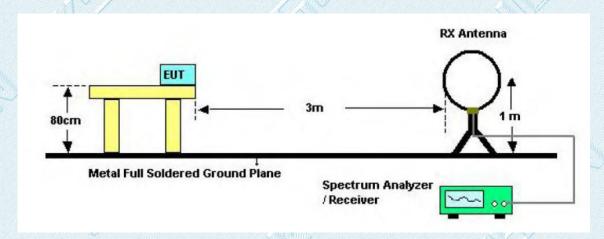
Radiated Emission Limit (Above 1000MHz)

Frequency	Distance Meters(at 3m)				
(MHz)	Peak	Average			
Above 1000	74	54			

Note:

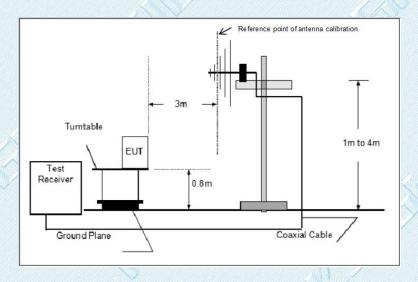
- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

Test Configuration

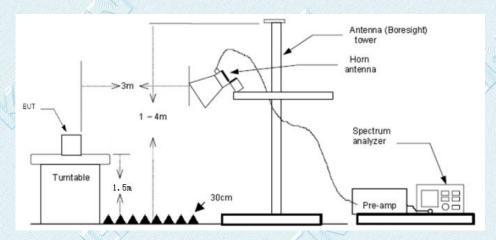


Below 30MHz Test Setup





Below 1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

- 1. The EUT was setup and tested according to ANSI C63.10:2013
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(3) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=1MHz Peak detector for Peak value.

RBW=1MHz, VBW=10Hz RMS detector for Average value.

Report No.: KS2005S00097E



Test Mode

Please refer to the clause 2.3.

Test Result

9 KHz~30 MHz and 18GHz~25GHz

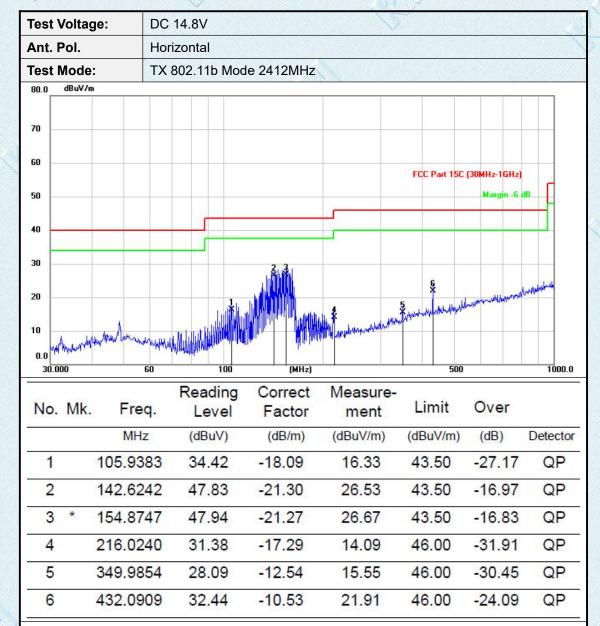
From 9 KHz~30 MHz and 18GHz~25GHz: Conclusion: PASS

Note:

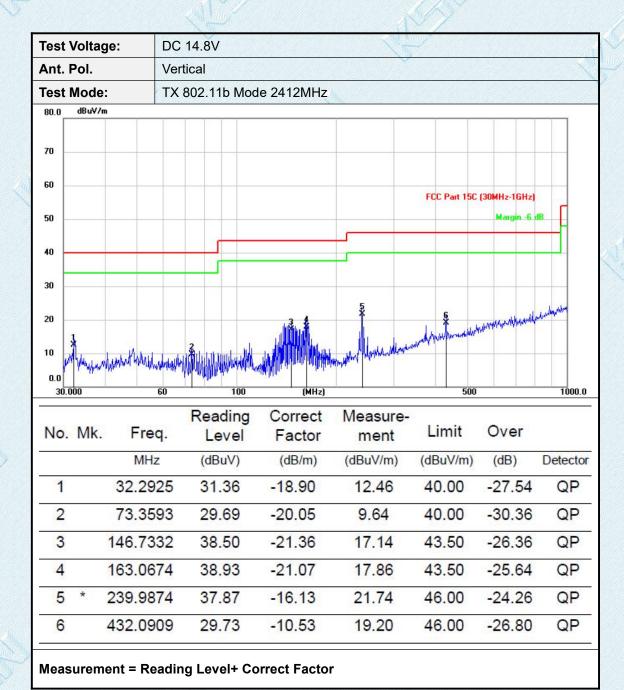
- 1) Measurement = Reading level + Correct Factor Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor
- The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is 2) unable to test.
- 3) The emission levels of other frequencies are very lower than the limit and not show in test report.
- The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- Pre-scan 802.11b/g/n(HT20/HT40) modulation, and found the 802.11b modulation 2412MHz which it is worse case for 30MHz-1GHz, so only show the test data for worse case.
- Pre-scan 802.11b/g/n(HT20/HT40) modulation, and found the 802.11b modulation which it is worse case for above 1GHz, so only show the test data for worse case.



30MHz-1GHz









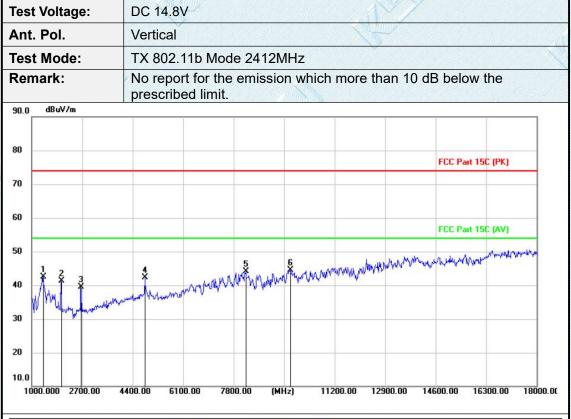


Adobe 1GHz

Tes	t Voltage:	DC 14.8	V						
Ant	. Pol.	Horizon	tal						
Tes	t Mode:	TX 802.	11b Mod	e 2412N	ЛHz				N.
Remark: No report for the emission which more than 10 dB below the prescribed limit.							the		
90.0	dBuV/m								
80								FCC D-+ 151	C (DK)
70								FCC Part 150	, (PK)
60								FCC Part 150	C (AV)
50				-	6	The State L	an interest the a	L'A AMERICAN	Jan Janasa Marka Mar
40	Mhum Lua	3 3 servery of the se		APPRIMATION	y***********	ANAMAN MANAMAN	Addr. s. dk		
30	March Andreas								
20									
10.0									

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		1999.600	52.56	-11.06	41.50	74.00	-32.50	peak
2		2666.000	49.22	-10.78	38.44	74.00	-35.56	peak
3		4825.000	46.10	-5.87	40.23	74.00	-33.77	peak
4		6815.700	42.89	-1.22	41.67	74.00	-32.33	peak
5		8184.200	40.82	2.02	42.84	74.00	-31.16	peak
6	*	9678.500	41.00	3.37	44.37	74.00	-29.63	peak





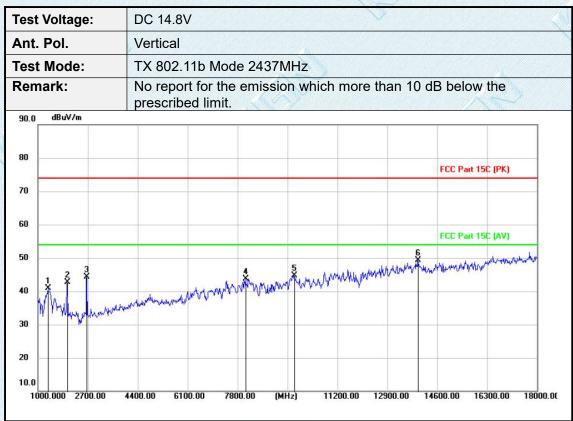
	MHz	(dBuV)					
		(ubuv)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
	1384.200	54.44	-11.92	42.52	74.00	-31.48	peak
	1999.600	52.38	-11.06	41.32	74.00	-32.68	peak
1	2664.300	50.37	-10.79	39.58	74.00	-34.42	peak
	4823.300	48.16	-5.87	42.29	74.00	-31.71	peak
	8209.700	42.00	2.02	44.02	74.00	-29.98	peak
*	9714.200	41.01	3.44	44.45	74.00	-29.55	peak
	*	1999.600 2664.300 4823.300 8209.700	1999.600 52.38 2664.300 50.37 4823.300 48.16 8209.700 42.00	1999.600 52.38 -11.06 2664.300 50.37 -10.79 4823.300 48.16 -5.87 8209.700 42.00 2.02	1999.600 52.38 -11.06 41.32 2664.300 50.37 -10.79 39.58 4823.300 48.16 -5.87 42.29 8209.700 42.00 2.02 44.02	1999.600 52.38 -11.06 41.32 74.00 2664.300 50.37 -10.79 39.58 74.00 4823.300 48.16 -5.87 42.29 74.00 8209.700 42.00 2.02 44.02 74.00	1999.600 52.38 -11.06 41.32 74.00 -32.68 2664.300 50.37 -10.79 39.58 74.00 -34.42 4823.300 48.16 -5.87 42.29 74.00 -31.71 8209.700 42.00 2.02 44.02 74.00 -29.98



DC 14.8V		7.5						
Horizontal		v						
TX 802.11b	TX 802.11b Mode 2437MHz							
	No report for the emission which more than 10 dB below the prescribed limit							
			FCC Part 15C (PK)					
			FCC Part 15C (AV)					
			recrait ise (AV)					
make her make her my		when white his war war was	Arter yellower who extra help they be her with the contract of the					
	TX 802.11b No report for prescribed I	Horizontal TX 802.11b Mode 2437MHz No report for the emission wh prescribed limit.	Horizontal TX 802.11b Mode 2437MHz No report for the emission which more than 10					

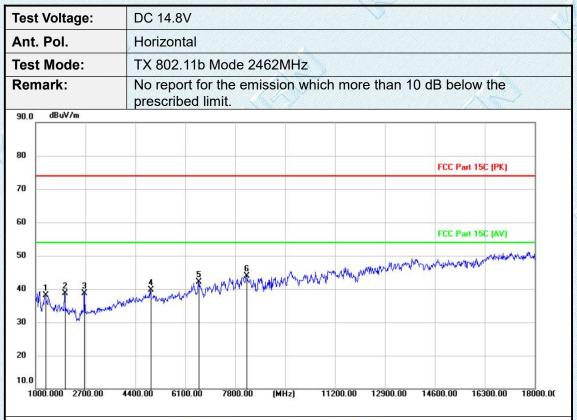
Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
	1348.500	50.33	-11.94	38.39	74.00	-35.61	peak
	1996.200	51.78	-11.06	40.72	74.00	-33.28	peak
-	2660.900	51.92	-10.79	41.13	74.00	-32.87	peak
	4823.300	45.16	-5.87	39.29	74.00	-34.71	peak
1	8039.700	41.69	2.06	43.75	74.00	-30.25	peak
*	9683.600	41.92	3.38	45.30	74.00	-28.70	peak
		MHz 1348.500 1996.200 2660.900 4823.300 8039.700	MHz (dBuV) 1348.500 50.33 1996.200 51.78 2660.900 51.92 4823.300 45.16 8039.700 41.69	MHz (dBuV) (dB/m) 1348.500 50.33 -11.94 1996.200 51.78 -11.06 2660.900 51.92 -10.79 4823.300 45.16 -5.87 8039.700 41.69 2.06	MHz (dBuV) (dB/m) (dBuV/m) 1348.500 50.33 -11.94 38.39 1996.200 51.78 -11.06 40.72 2660.900 51.92 -10.79 41.13 4823.300 45.16 -5.87 39.29 8039.700 41.69 2.06 43.75	MHz (dBuV) (dB/m) (dBuV/m) (dBuV/m) 1348.500 50.33 -11.94 38.39 74.00 1996.200 51.78 -11.06 40.72 74.00 2660.900 51.92 -10.79 41.13 74.00 4823.300 45.16 -5.87 39.29 74.00 8039.700 41.69 2.06 43.75 74.00	MHz (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB 1348.500 50.33 -11.94 38.39 74.00 -35.61 1996.200 51.78 -11.06 40.72 74.00 -33.28 2660.900 51.92 -10.79 41.13 74.00 -32.87 4823.300 45.16 -5.87 39.29 74.00 -34.71 8039.700 41.69 2.06 43.75 74.00 -30.25





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		1343.400	52.80	-11.95	40.85	74.00	-33.15	peak
2		1999.600	53.78	-11.06	42.72	74.00	-31.28	peak
3		2662.600	55.05	-10.79	44.26	74.00	-29.74	peak
4		8083.900	41.75	2.05	43.80	74.00	-30.20	peak
5		9724.400	41.32	3.45	44.77	74.00	-29.23	peak
6	* 1	3947.200	38.10	11.17	49.27	74.00	-24.73	peak





Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
	1343.400	49.98	-11.95	38.03	74.00	-35.97	peak
	1992.800	49.80	-11.07	38.73	74.00	-35.27	peak
	2660.900	49.57	-10.79	38.78	74.00	-35.22	peak
	4923.600	45.25	-5.60	39.65	74.00	-34.35	peak
1	6557.300	44.10	-1.95	42.15	74.00	-31.85	peak
*	8189.300	41.92	2.01	43.93	74.00	-30.07	peak
		1343.400 1992.800 2660.900 4923.600 6557.300	MHz (dBuV) 1343.400 49.98 1992.800 49.80 2660.900 49.57 4923.600 45.25 6557.300 44.10	MHz (dBuV) (dB/m) 1343.400 49.98 -11.95 1992.800 49.80 -11.07 2660.900 49.57 -10.79 4923.600 45.25 -5.60 6557.300 44.10 -1.95	MHz (dBuV) (dB/m) (dBuV/m) 1343.400 49.98 -11.95 38.03 1992.800 49.80 -11.07 38.73 2660.900 49.57 -10.79 38.78 4923.600 45.25 -5.60 39.65 6557.300 44.10 -1.95 42.15	MHz (dBuV) (dB/m) (dBuV/m) (dBuV/m) 1343.400 49.98 -11.95 38.03 74.00 1992.800 49.80 -11.07 38.73 74.00 2660.900 49.57 -10.79 38.78 74.00 4923.600 45.25 -5.60 39.65 74.00 6557.300 44.10 -1.95 42.15 74.00	MHz (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 1343.400 49.98 -11.95 38.03 74.00 -35.97 1992.800 49.80 -11.07 38.73 74.00 -35.27 2660.900 49.57 -10.79 38.78 74.00 -35.22 4923.600 45.25 -5.60 39.65 74.00 -34.35 6557.300 44.10 -1.95 42.15 74.00 -31.85



Test Voltage: Ant. Pol. Test Mode: Remark:		DC 14.8	DC 14.8V Vertical TX 802.11b Mode 2462MHz							
		Vertical								
		TX 802.								
			No report for the emission which more than 10 dB below the prescribed limit.							
90.0	dBuV/m					T		1		
80								NO. 2011 Lapton 1900	None page	
-								FCC Part 15	C (PK)	
70										
60								FCC Part 15	C (AV)	
50	2		5		6		July year year year year year year year yea	oran medical algebrasis	water appropriate	
40	A Barrell May May May May	warman Markey	MANNA MA	Charactery	A WAYN	MANNA MARINI				
30	Mr. Manhan									
20										
10.0										

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1	1329.800	49.20	-11.95	37.25	74.00	-36.75	peak
2	1997.900	54.78	-11.06	43.72	74.00	-30.28	peak
3	2662.600	51.60	-10.79	40.81	74.00	-33.19	peak
4	4923.600	44.10	-5.60	38.50	74.00	-35.50	peak
5	7628.300	42.27	1.14	43.41	74.00	-30.59	peak
6 *	9688.700	41.31	3.38	44.69	74.00	-29.31	peak
0	3000.700	41.51	3.36	44.09	74.00	-23.51	-

5.PHOTOGRAPHS OF EUT CONSTRUCTIONAL

Reference to the document No.: External Photos and Internal Photos.