

WLAN TEST REPORT

Report Number: 102314536LEX-003

Project Number: G102314536

Report Issue Date: 8/18/2016

Product Name: Smart MDT with MC7750

FCC Standards: Title 47 CFR Part 15 Subpart C

Tested by:
Intertek Testing Services NA, Inc.
731 Enterprise Drive
Lexington, KY 40510

Client:
Trapeze Software Group, Inc
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Cedar Rapids, IA 52402-2014

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1 Introduction and Conclusion

The tests indicated in section 2 were performed on the product constructed as described in section 3. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test method, a list of the actual test equipment used, documentation photos, results and raw data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested complied with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested.

The INTERTEK-Lexington is located at 731 Enterprise Drive, Lexington Kentucky, 40510. The radiated emission test site is a 10-meter semi-anechoic chamber. The chamber meets the characteristics of CISPR 16-1 and ANSI C63.4. For measurements, a remotely controlled flush-mount metal-top turntable is used to rotate the EUT a full 360 degrees. A remote controlled non-conductive antenna mast is used to scan the antenna height from one to four meters. The test site is listed with the FCC under registration number 485103. The test site is listed with Industry Canada under site number IC 2042M-1.

2 Test Summary

Page	Test full name	FCC Reference	IC Reference	Result
6	Radiated Spurious Emissions (Transmitter)	§ 15.247(d), § 15.209, and § 15.205	RSS-247 (5.5)	Pass

1 See module test report exhibit for data on conducted port tests.

3 Description of Equipment Under Test

Equipment Under Test	
Manufacturer	Trapeze Software Group, Inc
Model Number	Smart MDT with MC7750
Receive Date	10/19/2015
Test Start Date	10/20/2015
Test End Date	12/9/2015
Device Received Condition	Good
Test Sample Type	Production
Frequency Band	2400 – 2483.5 MHz
Mode(s) of Operation	802.11b,g,n
Modulation Type	CCK, OFDM, HT Mixed Mode, HT Greenfield
Duty Cycle	100%
Transmission Control	Test Commands
Maximum Output Power	19dBm
Test Channels	1, 6, 11
Antenna Type (15.203)	External Antenna
Operating Voltage	12Vdc

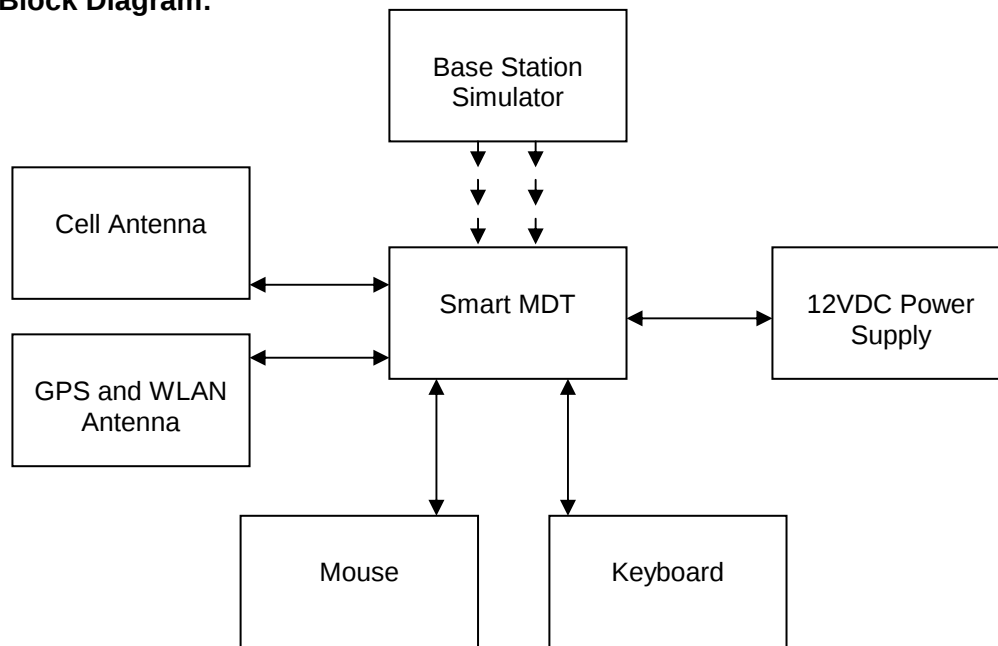
Description of Equipment Under Test
Trapeze's Mobile Data Terminal (MDT) provides transit agencies with real-time interaction between the vehicle fleet and dispatch center for safer and more efficient operations. MDTs also help ensure control and accuracy with an onboard information and communication system.

Operating modes of the EUT:

No.	Descriptions of EUT Exercising
1	Transmitting 802.11 b, g or n on low, mid or high channels
2	Receive mode / idle mode

3.1 System setup including cable interconnection details, support equipment and simplified block diagram

3.2 EUT Block Diagram:



Block Diagram for Radiated Tests

3.3 Cables:

Cables					
Description	Length	Shielding	Ferrites	Connection	
				From	To
12VDC	1m	No	No	DC Power Supply	EUT

4 Radiated Spurious Emissions (Transmitter)

4.1 Test Limits

§ 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Part 15.205(a): Restricted Bands of Operations

MHz	MHz	MHz	GHz
0.090–0.110	16.42–16.423	399.9–410	4.5–5.15
¹ 0.495–0.505	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225	123–138	2200–2300	14.47–14.5
8.291–8.294	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675	156.7–156.9	2655–2900	22.01–23.12
8.41425–8.41475	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5
12.57675–12.57725	322–335.4	3600–4400	(²)
13.36–13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490–0.510 MHz.

² Above 38.6

Part 15.209(a): Field Strength Limits for Restricted Bands of Operation

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2,400 / F (kHz)	300
0.490 - 1.705	24,000 / 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

4.2 Test Procedure

ANSI C63.10: 2013 and KDB Publication No. 558074: Guidance on Measurements for Digital Transmission Systems (47 CFR 15.247)

4.3 Example of Field Strength Calculation Method:

The measured field strength was calculated by summing the readings taken from the spectrum analyzer with the appropriate correction factors associated with the antenna losses and cable losses. The calculation formula and sample calculations are listed below:

Formula:

$$FS = RA + AF + CF$$

FS = Field Strength in dB μ V/m

RA = Receiver Amplitude in dB μ V

AF = Antenna Factor in dB

CF = Cable Attenuation Factor in dB (Including preamplifier and filter attenuation)

Example Calculation:

RA = 19.48 dB μ V

AF = 18.52 dB

CF = 0.78 dB

$FS = 19.48 + 18.52 + 0.78 = 38.78$ dB μ V/m

Level in μ V/m = Common Antilogarithm $[(38.78 \text{ dB}\mu\text{V/m})/20] = 86.89 \mu\text{V/m}$

4.4 Test Equipment Used:

Description	Serial Number	Manufacturer	Model	Cal. Date	Cal. Due
EMI Test Receiver	1302.6005.40	Rohde&Schwarz	ESU40	9/19/2015	9/19/2016
Preamplifier	122005	Rohde&Schwarz	TS-PR18	11/19/2015	11/19/2016
Horn Antenna (18 – 40GHz)	00117798	ETS	3116c	4/22/2015	4/22/2016
Horn Antenna	00156319	ETS	3117	5/15/2015	5/15/2016
Bilog Antenna	00051864	ETS	3142C	1/20/2015	1/20/2016
System Controller	121701-1	Sunol Sciences	SC99V	Time of Use	Time of Use
High Pass Filter	1	Wainwright	WHKX12- 2533.85-2710- 18000-40SS	Time of Use	Time of Use
EMC Software	Version 9.15.02	Rohde&Schwarz	EMC32	Time of Use	Time of Use

4.5 Results:

All spurious emissions were attenuated by at least 20dB below the level of the fundamental as required by Part 15.247(d). Additionally, all emissions falling within restricted bands of operation and at the band edges were found to be below the limit specified in Part 15.209(a). The spurious emissions listed in the following tables are the worst case emissions. All testing was performed on 12/9/2015.

Worst Case Spurious Measurements (802.11b Mode)

Frequency (MHz)	Average (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4823.800000	38.22	---	54.00	15.78	1000.000	367.0	H	128.0	7.5
7236.600000	31.73	---	54.00	22.27	1000.000	267.0	V	298.0	10.4
9647.800000	33.93	---	54.00	20.07	1000.000	352.0	H	312.0	13.6
12061.000000	36.88	---	54.00	17.12	1000.000	410.0	H	140.0	17.4
14472.200000	36.00	---	54.00	18.00	1000.000	295.0	H	119.0	17.2
16885.000000	40.25	---	54.00	13.75	1000.000	380.0	V	282.0	21.7
4823.800000	---	51.49	74.00	22.51	1000.000	367.0	H	128.0	7.5
7236.600000	---	44.11	74.00	29.89	1000.000	267.0	V	298.0	10.4
9647.800000	---	47.23	74.00	26.77	1000.000	352.0	H	312.0	13.6
12061.000000	---	49.40	74.00	24.60	1000.000	410.0	H	140.0	17.4
14472.200000	---	49.04	74.00	24.96	1000.000	295.0	H	119.0	17.2
16885.000000	---	52.81	74.00	21.19	1000.000	380.0	V	282.0	21.7

802.11b Channel 1 Radiated Spurs

Frequency (MHz)	Average (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4873.800000	29.52	---	54.00	24.48	1000.000	375.0	H	128.0	7.4
7310.800000	31.16	---	54.00	22.84	1000.000	340.0	V	145.0	10.5
9747.800000	33.40	---	54.00	20.60	1000.000	352.0	H	233.0	13.7
12186.000000	36.66	---	54.00	17.34	1000.000	394.0	V	229.0	17.2
14622.600000	36.13	---	54.00	17.87	1000.000	351.0	H	136.0	17.3
17058.000000	40.02	---	54.00	13.98	1000.000	230.0	H	314.0	21.4
4873.800000	---	42.74	74.00	31.26	1000.000	375.0	H	128.0	7.4
7310.800000	---	44.13	74.00	29.87	1000.000	340.0	V	145.0	10.5
9747.800000	---	46.52	74.00	27.48	1000.000	352.0	H	233.0	13.7
12186.000000	---	49.20	74.00	24.80	1000.000	394.0	V	229.0	17.2
14622.600000	---	48.62	74.00	25.38	1000.000	351.0	H	136.0	17.3
17058.000000	---	52.19	74.00	21.81	1000.000	230.0	H	314.0	21.4

802.11b Channel 6 Radiated Spurs

Frequency (MHz)	Average (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4923.800000	28.83	---	54.00	25.17	1000.000	410.0	H	146.0	7.3
7387.000000	31.18	---	54.00	22.82	1000.000	377.0	V	300.0	10.7
9848.200000	33.70	---	54.00	20.30	1000.000	410.0	H	0.0	14.0
12309.800000	36.80	---	54.00	17.20	1000.000	308.0	H	319.0	17.1
14773.000000	36.75	---	54.00	17.25	1000.000	210.0	H	242.0	17.7
17233.000000	39.65	---	54.00	14.35	1000.000	347.0	H	171.0	21.0
4923.800000	---	41.76	74.00	32.24	1000.000	410.0	H	146.0	7.3
7387.000000	---	43.96	74.00	30.04	1000.000	377.0	V	300.0	10.7
9848.200000	---	46.82	74.00	27.18	1000.000	410.0	H	0.0	14.0
12309.800000	---	49.25	74.00	24.75	1000.000	308.0	H	319.0	17.1
14773.000000	---	49.00	74.00	25.00	1000.000	210.0	H	242.0	17.7
17233.000000	---	52.67	74.00	21.33	1000.000	347.0	H	171.0	21.0

802.11b Channel 11 Radiated Spurs

*Emissions were investigated with the test sample positioned in 3 orthogonal axis and the worst case reported.

Worst Case Spurious Measurements (802.11g Mode)

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4824.200000	43.66	---	54.00	10.34	1000.000	260.0	H	346.0	7.5
7237.000000	30.89	---	54.00	23.11	1000.000	370.0	V	138.0	10.4
9647.800000	34.36	---	54.00	19.64	1000.000	230.0	H	303.0	13.6
12059.000000	36.89	---	54.00	17.11	1000.000	383.0	H	132.0	17.4
14472.600000	36.03	---	54.00	17.97	1000.000	200.0	H	0.0	17.2
16884.200000	40.31	---	54.00	13.69	1000.000	410.0	H	259.0	21.7
4824.200000	---	55.87	74.00	18.13	1000.000	260.0	H	346.0	7.5
7237.000000	---	43.74	74.00	30.26	1000.000	370.0	V	138.0	10.4
9647.800000	---	47.18	74.00	26.82	1000.000	230.0	H	303.0	13.6
12059.000000	---	49.46	74.00	24.54	1000.000	383.0	H	132.0	17.4
14472.600000	---	49.01	74.00	24.99	1000.000	200.0	H	0.0	17.2
16884.200000	---	52.80	74.00	21.20	1000.000	410.0	H	259.0	21.7

802.11g Channel 1 Radiated Spurs

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4873.800000	43.35	---	54.00	10.65	1000.000	100.0	H	0.0	7.4
7310.800000	31.57	---	54.00	22.43	1000.000	280.0	H	258.0	10.5
9747.800000	33.58	---	54.00	20.42	1000.000	235.0	H	0.0	13.7
12186.000000	36.72	---	54.00	17.28	1000.000	304.0	H	303.0	17.2
14622.200000	36.10	---	54.00	17.90	1000.000	233.0	H	232.0	17.3
17058.000000	40.00	---	54.00	14.00	1000.000	352.0	V	314.0	21.4
4873.800000	---	56.00	74.00	18.00	1000.000	100.0	H	0.0	7.4
7310.800000	---	44.99	74.00	29.01	1000.000	280.0	H	258.0	10.5
9747.800000	---	46.19	74.00	27.81	1000.000	235.0	H	0.0	13.7
12186.000000	---	49.29	74.00	24.71	1000.000	304.0	H	303.0	17.2
14622.200000	---	49.13	74.00	24.87	1000.000	233.0	H	232.0	17.3
17058.000000	---	52.63	74.00	21.37	1000.000	352.0	V	314.0	21.4

802.11g Channel 6 Radiated Spurs

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4923.800000	28.78	---	54.00	25.22	1000.000	298.0	H	136.0	7.3
7386.600000	32.27	---	54.00	21.73	1000.000	274.0	H	255.0	10.7
9848.200000	33.76	---	54.00	20.24	1000.000	356.0	H	269.0	14.0
12309.800000	36.75	---	54.00	17.25	1000.000	311.0	H	309.0	17.1
14773.000000	36.72	---	54.00	17.28	1000.000	410.0	H	325.0	17.7
17233.000000	39.60	---	54.00	14.40	1000.000	215.0	H	143.0	21.0
4923.800000	---	41.52	74.00	32.48	1000.000	298.0	H	136.0	7.3
7386.600000	---	49.24	74.00	24.76	1000.000	274.0	H	255.0	10.7
9848.200000	---	46.69	74.00	27.31	1000.000	356.0	H	269.0	14.0
12309.800000	---	49.53	74.00	24.47	1000.000	311.0	H	309.0	17.1
14773.000000	---	49.34	74.00	24.66	1000.000	410.0	H	325.0	17.7
17233.000000	---	52.03	74.00	21.97	1000.000	215.0	H	143.0	21.0

802.11g Channel 11 Radiated Spurs

*Emissions were investigated with the test sample positioned in 3 orthogonal axis and the worst case reported.

Worst Case Spurious Measurements (802.11n Mode)

Frequency (MHz)	Average (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4823.800000	43.58	---	54.00	10.42	1000.000	410.0	H	0.0	7.5
7237.000000	31.30	---	54.00	22.70	1000.000	410.0	V	132.0	10.4
9648.200000	34.42	---	54.00	19.58	1000.000	281.0	H	301.0	13.6
12059.000000	37.12	---	54.00	16.88	1000.000	371.0	H	302.0	17.4
14472.200000	36.01	---	54.00	17.99	1000.000	203.0	H	275.0	17.2
16885.000000	40.31	---	54.00	13.69	1000.000	249.0	H	156.0	21.7
4823.800000	---	55.61	74.00	18.39	1000.000	410.0	H	0.0	7.5
7237.000000	---	44.77	74.00	29.23	1000.000	410.0	V	132.0	10.4
9648.200000	---	47.20	74.00	26.80	1000.000	281.0	H	301.0	13.6
12059.000000	---	49.74	74.00	24.26	1000.000	371.0	H	302.0	17.4
14472.200000	---	48.72	74.00	25.28	1000.000	203.0	H	275.0	17.2
16885.000000	---	53.32	74.00	20.68	1000.000	249.0	H	156.0	21.7

802.11n Channel 1 Radiated Spurs

Frequency (MHz)	Average (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4873.800000	38.97	---	54.00	15.03	1000.000	410.0	H	0.0	7.4
7311.200000	31.33	---	54.00	22.67	1000.000	308.0	H	271.0	10.5
9747.800000	33.50	---	54.00	20.50	1000.000	371.0	H	260.0	13.7
12186.000000	36.68	---	54.00	17.32	1000.000	245.0	H	300.0	17.2
14622.200000	36.13	---	54.00	17.87	1000.000	219.0	H	162.0	17.3
17058.400000	39.99	---	54.00	14.01	1000.000	252.0	H	179.0	21.4
4873.800000	---	52.26	74.00	21.74	1000.000	410.0	H	0.0	7.4
7311.200000	---	44.38	74.00	29.62	1000.000	308.0	H	271.0	10.5
9747.800000	---	46.82	74.00	27.18	1000.000	371.0	H	260.0	13.7
12186.000000	---	49.68	74.00	24.32	1000.000	245.0	H	300.0	17.2
14622.200000	---	48.77	74.00	25.23	1000.000	219.0	H	162.0	17.3
17058.400000	---	52.42	74.00	21.58	1000.000	252.0	H	179.0	21.4

802.11n Channel 6 Radiated Spurs

Frequency (MHz)	Average (dBμV/m)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4923.800000	32.29	---	54.00	21.71	1000.000	388.0	H	146.0	7.3
7387.000000	31.46	---	54.00	22.54	1000.000	251.0	V	300.0	10.7
9848.200000	33.69	---	54.00	20.31	1000.000	384.0	H	312.0	14.0
12309.800000	36.80	---	54.00	17.20	1000.000	373.0	H	168.0	17.1
14773.000000	36.78	---	54.00	17.22	1000.000	410.0	H	0.0	17.7
17233.000000	39.67	---	54.00	14.33	1000.000	240.0	V	251.0	21.0
4923.800000	---	45.49	74.00	28.51	1000.000	388.0	H	146.0	7.3
7387.000000	---	44.18	74.00	29.82	1000.000	251.0	V	300.0	10.7
9848.200000	---	46.49	74.00	27.51	1000.000	384.0	H	312.0	14.0
12309.800000	---	49.68	74.00	24.32	1000.000	373.0	H	168.0	17.1
14773.000000	---	49.77	74.00	24.23	1000.000	410.0	H	0.0	17.7
17233.000000	---	52.49	74.00	21.51	1000.000	240.0	V	251.0	21.0

802.11n Channel 11 Radiated Spurs

*Emissions were investigated with the test sample positioned in 3 orthogonal axis and the worst case reported.

Low Channel Band Edge Emissions - 802.11b Mode

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2390.000000	---	52.51	74.00	21.49	1000.000	288.0	V	276.0	37.7
2390.000000	41.49	---	54.00	12.51	1000.000	288.0	V	276.0	37.7

High Channel Band Edge - 802.11b Mode

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2483.500000	---	53.04	74.00	20.96	1000.000	344.0	H	267.0	37.8
2483.500000	42.22	---	54.00	11.78	1000.000	344.0	H	267.0	37.8

Low Channel Band Edge Emissions - 802.11g Mode

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2390.000000	---	55.17	74.00	18.83	1000.000	313.0	H	249.0	37.7
2390.000000	42.38	---	54.00	11.62	1000.000	313.0	H	249.0	37.7

High Channel Band Edge Emissions - 802.11g Mode

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2483.500000	---	52.31	74.00	21.69	1000.000	338.0	H	270.0	37.8
2483.500000	42.42	---	54.00	11.58	1000.000	338.0	H	270.0	37.8

Low Channel Band Edge Emissions - 802.11n Mode

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2390.000000	---	58.54	74.00	15.46	1000.000	410.0	H	251.0	37.7
2390.000000	42.61	---	54.00	11.39	1000.000	410.0	H	251.0	37.7

High Channel Band Edge Emissions - 802.11n Mode

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2483.500000	---	52.52	74.00	21.48	1000.000	343.0	H	267.0	37.8
2483.500000	42.34	---	54.00	11.66	1000.000	343.0	H	267.0	37.8

5 Revision History

Revision Level	Date	Report Number	Notes
0	8/18/2016	102314536LEX-003	Original Issue