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FINAL TEST REPORT

Report Number: 101968343LEX-001
Project Number: G101968343

Report Issue Date: 10/22/2015

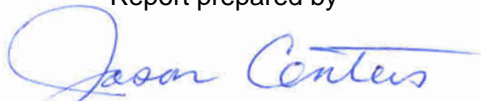
Product Name: Single Door Controller

Standards: Title 47 CFR Part 15.247
RSS-247 Issue 1, May 2015

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

Client:
Stanley Security Solutions
6161 E 75th Street
Indianapolis, IN 46250

Report prepared by


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Report reviewed by


Bryan Taylor, Team Leader



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TABLE OF CONTENTS

1 Introduction and Conclusion..... 3

2 Test Summary 3

3 Description of Equipment Under Test 4

4 Radiated Spurious Emissions (Transmitter)..... 6

5 Measurement Uncertainty 13

6 Revision History..... 14

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

3 Description of Equipment Under Test

Equipment Under Test	
Manufacturer	Stanley Security Solutions
Model Number	12860-001
Serial Number	Not Labeled
Receive Date	7/4/2015
Test Start Date	7/4/2015
Test End Date	8/21/2015
Device Received Condition	Good
Test Sample Type	Production
Frequency Band	2405MHz – 2480MHz
Mode(s) of Operation	Zigbee
Modulation Type	OFDM
Duty Cycle	100%
Transmission Control	Test Commands
Test Channels	11, 18, 26
Antenna Type (15.203)	Three external antennas with reverse polarity SMA connections (detailed below)
Operating Voltage	9VDC

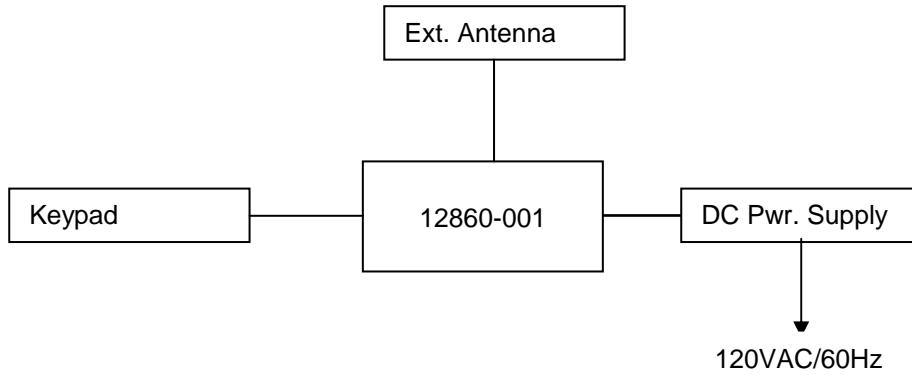
Optional External Antennas			
Description	Manufacturer	Model Number	Peak Gain (dBi)
ISM-XF Panel Antenna	MAXRAD	MP24008XFPTNF	8.5
Omni Directional Ceiling Mount Antenna	PCTEL	MC2400PTMSMA	2.5
Outdoor Omni-Directional Antenna	Comtelco	BS2400XL3	5.0

Description of Equipment Under Test	
The product under test was a model 12860-001 Single Door Controller with three separate external antennas.	

Operating modes of the EUT:

No.	Descriptions of EUT Exercising
1	Transmitting a modulated test signal on low, mid or high channels.

3.1 EUT Block Diagram:



3.2 Cables:

Cables					
Description	Length	Shielding	Ferrites	Connection	
				From	To
DC Power Cable	6ft	None	None	DC Power Supply	DC Input
RJ11 Keypad Cable	6ft	None	None	Test Sample	Keypad

3.3 Support Equipment:

Support Equipment			
Description	Manufacturer	Model Number	Serial Number
Keypad	Stanley Security Solutions	Keypad	Not Labeled

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
10.495–0.505	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:

$$RA = 19.48 \text{ dB}\mu\text{V}$$

$$AF = 18.52 \text{ dB}$$

$$CF = 0.78 \text{ dB}$$

$$FS = 19.48 + 18.52 + 0.78 = 38.78 \text{ dB}\mu\text{V/m}$$

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

4.4 Test Equipment Used:

Description	Serial Number	Manufacturer	Model	Cal. Date	Cal. Due
EMI Test Receiver	1302.6005.40	Rohde & Schwarz	ESU40	9/17/2014	9/17/2015
Preamplifier	122005	Rohde&Schwarz	TS-PR18	11/26/2014	11/26/2015
Preamplifier	100050	Rohde&Schwarz	TS-PR26	11/26/2015	11/26/2016
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
Band Reject Filter	155	Micro-Tronics	BRM50702	Time of Use	Time of Use
System Controller	121701-1	Sunol Sciences	SC99V	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. Radiated emissions was investigated up to the tenth harmonic of the transmit frequency.

Channel 11 Test Results

EUT Name:	Wireless Access Controller
Manufacturer:	Stanley
Test Engineer:	J. Centers
Date:	7/4/2015
Temp/Humidity/Pressure:	21.6C/64.1%/987.6mbar
Comment:	Zigbee, Channel 11, Ceiling Mnt Antenna

Final Result

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2390.000000	---	53.05	74.00	20.95	1000.000	368.0	H	145.0	37.7
2390.000000	41.42	---	54.00	12.58	1000.000	368.0	H	145.0	37.7

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4810.600000	---	46.96	74.00	27.04	1000.000	345.0	H	203.0	7.5
4810.600000	40.09	---	54.00	13.91	1000.000	345.0	H	203.0	7.5
7215.600000	---	43.67	74.00	30.33	1000.000	210.0	V	326.0	10.4
7215.600000	31.00	---	54.00	23.00	1000.000	210.0	V	326.0	10.4
9620.200000	33.52	---	54.00	20.48	1000.000	276.0	V	284.0	13.6
9620.200000	---	46.94	74.00	27.06	1000.000	276.0	V	284.0	13.6
12025.600000	37.06	---	54.00	16.94	1000.000	319.0	H	187.0	17.4
12025.600000	---	49.87	74.00	24.13	1000.000	319.0	H	187.0	17.4
14429.400000	---	48.52	74.00	25.48	1000.000	240.0	H	152.0	16.9
14429.400000	35.64	---	54.00	18.36	1000.000	240.0	H	152.0	16.9
16835.600000	---	53.06	74.00	20.94	1000.000	230.0	H	292.0	21.6
16835.600000	40.77	---	54.00	13.23	1000.000	230.0	H	292.0	21.6

Channel 11 Test Results

EUT Name: Wireless Access Controller
 Manufacturer: Stanley
 Test Engineer: Carmen Davis
 Date: 7/6/2015
 Temp/Humidity/Pressure: 21.6C/64.1%/987.6mbar
 Comment: Zigbee, Channel 11 Spurs, Monopole Antenna

Final Result

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2390.000000	---	52.14	74.00	21.86	1000.000	282.0	H	287.0	37.7
2390.000000	41.50	---	54.00	12.50	1000.000	282.0	H	287.0	37.7

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4810.600000	37.86	---	54.00	16.14	1000.000	100.0	V	348.0	7.5
4810.600000	---	45.68	74.00	28.32	1000.000	100.0	V	348.0	7.5
7215.600000	---	43.63	74.00	30.37	1000.000	293.0	V	189.0	10.4
7215.600000	30.93	---	54.00	23.07	1000.000	293.0	V	189.0	10.4
9620.200000	---	46.18	74.00	27.82	1000.000	282.0	H	131.0	13.6
9620.200000	33.34	---	54.00	20.66	1000.000	282.0	H	131.0	13.6
12026.000000	37.01	---	54.00	16.99	1000.000	390.0	H	340.0	17.4
12026.000000	---	49.90	74.00	24.10	1000.000	390.0	H	340.0	17.4
14429.400000	---	48.03	74.00	25.97	1000.000	239.0	H	287.0	16.9
14429.400000	35.59	---	54.00	18.41	1000.000	239.0	H	287.0	16.9
16834.400000	---	54.22	74.00	19.78	1000.000	200.0	H	181.0	21.6
16834.400000	40.75	---	54.00	13.25	1000.000	200.0	H	181.0	21.6

Channel 11 Test Results

EUT Name: Wireless Access Controller
 Manufacturer: Stanley
 Test Engineer: J. Centers
 Date: 7/6/2015
 Temp/Humidity/Pressure: 21.6C/64.1%/987.6mbar
 Comment: Zigbee, Channel 11, Flat Panel Antenna

Final Result

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2390.000000	41.62	---	54.00	12.38	1000.000	280.0	V	306.0	37.7
2390.000000	---	52.12	74.00	21.88	1000.000	280.0	V	306.0	37.7

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4810.600000	36.47	---	54.00	17.53	1000.000	301.0	V	165.0	7.5
4810.600000	---	45.15	74.00	28.85	1000.000	301.0	V	165.0	7.5
7215.600000	31.46	---	54.00	22.54	1000.000	100.0	V	322.0	10.4
7215.600000	---	43.75	74.00	30.25	1000.000	100.0	V	322.0	10.4
9619.800000	---	45.99	74.00	28.01	1000.000	336.0	V	140.0	13.6
9619.800000	33.56	---	54.00	20.44	1000.000	336.0	V	140.0	13.6
12024.400000	---	49.69	74.00	24.31	1000.000	262.0	H	147.0	17.4
12024.400000	36.98	---	54.00	17.02	1000.000	262.0	H	147.0	17.4
14430.200000	---	48.53	74.00	25.47	1000.000	202.0	H	205.0	16.9
14430.200000	35.70	---	54.00	18.30	1000.000	202.0	H	205.0	16.9
16834.000000	---	53.60	74.00	20.40	1000.000	307.0	V	142.0	21.6
16834.000000	40.75	---	54.00	13.25	1000.000	307.0	V	142.0	21.6

Channel 18 Test Results

EUT Name:	Wireless Access Controller
Manufacturer:	Stanley
Test Engineer:	J. Centers
Date:	7/4/2015
Temp/Humidity/Pressure:	21.6C/64.1%/987.6mbar
Comment:	Zigbee, Channel 18 Spurs, Ceiling Mnt Antenna

Final Result

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4889.000000	---	42.74	74.00	31.26	1000.000	260.0	V	0.0	7.4
4889.000000	29.29	---	54.00	24.71	1000.000	260.0	V	0.0	7.4
7335.200000	---	43.55	74.00	30.45	1000.000	300.0	V	164.0	10.5
7335.200000	31.06	---	54.00	22.94	1000.000	300.0	V	164.0	10.5
9779.400000	33.83	---	54.00	20.17	1000.000	371.0	V	250.0	13.8
9779.400000	---	46.56	74.00	27.44	1000.000	371.0	V	250.0	13.8
12224.800000	---	49.42	74.00	24.58	1000.000	299.0	H	275.0	17.2
12224.800000	36.61	---	54.00	17.39	1000.000	299.0	H	275.0	17.2
14669.000000	---	49.06	74.00	24.94	1000.000	260.0	H	282.0	17.4
14669.000000	36.42	---	54.00	17.58	1000.000	260.0	H	282.0	17.4
17115.600000	39.75	---	54.00	14.25	1000.000	250.0	H	166.0	21.2
17115.600000	---	52.73	74.00	21.27	1000.000	250.0	H	166.0	21.2

Channel 18 Test Results

EUT Name:	Wireless Access Controller
Manufacturer:	Stanley
Test Engineer:	J. Centers
Date:	7/6/2015
Temp/Humidity/Pressure:	21.6C/64.1%/987.6mbar
Comment:	Zigbee, Channel 18 Spurs, Monopole Antenna

Final Result

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4889.400000	---	42.17	74.00	31.83	1000.000	410.0	V	203.0	7.4
4889.400000	29.28	---	54.00	24.72	1000.000	410.0	V	203.0	7.4
7334.000000	---	44.10	74.00	29.90	1000.000	259.0	V	156.0	10.5
7334.000000	31.05	---	54.00	22.95	1000.000	259.0	V	156.0	10.5
9779.400000	33.83	---	54.00	20.17	1000.000	246.0	V	170.0	13.8
9779.400000	---	46.37	74.00	27.63	1000.000	246.0	V	170.0	13.8
12225.200000	---	49.34	74.00	24.66	1000.000	285.0	H	128.0	17.2
12225.200000	36.63	---	54.00	17.37	1000.000	285.0	H	128.0	17.2
14669.000000	---	48.64	74.00	25.36	1000.000	244.0	H	225.0	17.4
14669.000000	36.42	---	54.00	17.58	1000.000	244.0	H	225.0	17.4
17115.600000	39.72	---	54.00	14.28	1000.000	239.0	H	187.0	21.2
17115.600000	---	52.33	74.00	21.67	1000.000	239.0	H	187.0	21.2

Channel 18 Test Results

EUT Name: Wireless Access Controller
 Manufacturer: Stanley
 Test Engineer: Bryan Taylor
 Date: 7/3/2015
 Temp/Humidity/Pressure: 21.2C,58.5%,979.3mbar
 Comment: Zigbee, Mid Channel 18, Flat Panel Antenna

Final Result

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4889.000000	---	42.36	74.00	31.64	1000.000	215.0	H	248.0	7.4
4889.000000	29.35	---	54.00	24.65	1000.000	215.0	H	248.0	7.4
7334.000000	---	44.20	74.00	29.80	1000.000	203.0	V	160.0	10.5
7334.000000	31.15	---	54.00	22.85	1000.000	203.0	V	160.0	10.5
9779.400000	---	46.59	74.00	27.41	1000.000	232.0	V	148.0	13.8
9779.400000	33.88	---	54.00	20.12	1000.000	232.0	V	148.0	13.8
12225.200000	---	49.62	74.00	24.38	1000.000	294.0	V	154.0	17.2
12225.200000	37.03	---	54.00	16.97	1000.000	294.0	V	154.0	17.2
14669.000000	36.44	---	54.00	17.56	1000.000	231.0	H	239.0	17.4
14669.000000	---	49.21	74.00	24.79	1000.000	231.0	H	239.0	17.4
17115.200000	39.76	---	54.00	14.24	1000.000	252.0	H	171.0	21.2
17115.200000	---	53.03	74.00	20.97	1000.000	252.0	H	171.0	21.2

Channel 26 Test Results

EUT Name: Wireless Access Controller
 Manufacturer: Stanley
 Test Engineer: J. Centers
 Date: 7/4/2015
 Temp/Humidity/Pressure: 21.6C/64.1%/987.6mbar
 Comment: Zigbee, Channel 26, Ceiling Mnt Antenna

Final Result

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2483.500000	---	53.71	74.00	20.29	1000.000	245.0	H	147.0	37.8
2483.500000	42.41	---	54.00	11.59	1000.000	245.0	H	147.0	37.8

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4960.600000	---	42.51	74.00	31.49	1000.000	214.0	H	280.0	7.2
4960.600000	31.20	---	54.00	22.80	1000.000	214.0	H	280.0	7.2
7440.600000	---	44.52	74.00	29.48	1000.000	410.0	H	152.0	10.9
7440.600000	31.72	---	54.00	22.28	1000.000	410.0	H	152.0	10.9
9919.000000	33.87	---	54.00	20.13	1000.000	270.0	V	119.0	14.0
9919.000000	---	46.13	74.00	27.87	1000.000	270.0	V	119.0	14.0
12399.400000	---	48.69	74.00	25.31	1000.000	207.0	V	322.0	16.9
12399.400000	36.10	---	54.00	17.90	1000.000	207.0	V	322.0	16.9
14879.400000	---	50.43	74.00	23.57	1000.000	255.0	V	122.0	18.2
14879.400000	37.32	---	54.00	16.68	1000.000	255.0	V	122.0	18.2
17360.600000	39.22	---	54.00	14.78	1000.000	232.0	H	182.0	20.6
17360.600000	---	51.90	74.00	22.10	1000.000	232.0	H	182.0	20.6

Channel 26 Test Results

EUT Name: Wireless Access Controller
 Manufacturer: Stanley
 Test Engineer: Carmen Davis
 Date: 7/6/2015
 Temp/Humidity/Pressure: 21.6C/64.1%/987.6mbar
 Comment: Zigbee, Channel 26 Spurs, Monopole Antenna

Final Result

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2483.500000	42.53	---	54.00	11.47	1000.000	258.0	V	234.0	37.8
2483.500000	---	54.09	74.00	19.91	1000.000	258.0	V	234.0	37.8

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4960.600000	38.37	---	54.00	15.63	1000.000	342.0	V	315.0	7.2
4960.600000	---	45.08	74.00	28.92	1000.000	342.0	V	315.0	7.2
7440.600000	31.80	---	54.00	22.20	1000.000	410.0	V	280.0	10.9
7440.600000	---	44.45	74.00	29.55	1000.000	410.0	V	280.0	10.9
9920.600000	34.09	---	54.00	19.91	1000.000	351.0	V	300.0	14.0
9920.600000	---	47.62	74.00	26.38	1000.000	351.0	V	300.0	14.0
12401.000000	36.07	---	54.00	17.93	1000.000	268.0	V	274.0	16.9
12401.000000	---	48.84	74.00	25.16	1000.000	268.0	V	274.0	16.9
14881.000000	---	50.33	74.00	23.67	1000.000	274.0	H	127.0	18.2
14881.000000	37.37	---	54.00	16.63	1000.000	274.0	H	127.0	18.2
17359.800000	---	51.63	74.00	22.37	1000.000	246.0	H	162.0	20.6
17359.800000	39.19	---	54.00	14.81	1000.000	246.0	H	162.0	20.6

Channel 26 Test Results

EUT Name: Wireless Access Controller
 Manufacturer: Stanley
 Test Engineer: J. Centers
 Date: 7/6/2015
 Temp/Humidity/Pressure: 21.6C/64.1%/987.6mbar
 Comment: Zigbee, Channel 26, Flat Panel Antenna

Final Result

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2483.500000	---	52.27	74.00	21.73	1000.000	246.0	V	145.0	37.8
2483.500000	42.14	---	54.00	11.86	1000.000	246.0	V	145.0	37.8

Frequency (MHz)	Average (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4960.600000	---	43.94	74.00	30.06	1000.000	246.0	V	155.0	7.2
4960.600000	34.14	---	54.00	19.86	1000.000	246.0	V	155.0	7.2
7440.600000	31.77	---	54.00	22.23	1000.000	410.0	V	345.0	10.9
7440.600000	---	44.66	74.00	29.34	1000.000	410.0	V	345.0	10.9
9919.000000	33.87	---	54.00	20.13	1000.000	292.0	V	122.0	14.0
9919.000000	---	46.48	74.00	27.52	1000.000	292.0	V	122.0	14.0
12399.400000	---	48.52	74.00	25.48	1000.000	100.0	V	122.0	16.9
12399.400000	36.07	---	54.00	17.93	1000.000	100.0	V	122.0	16.9
12399.800000	---	48.45	74.00	25.55	1000.000	243.0	H	0.0	16.9
12399.800000	35.98	---	54.00	18.02	1000.000	243.0	H	0.0	16.9
14879.400000	---	49.55	74.00	24.45	1000.000	202.0	V	121.0	18.2
14879.400000	37.34	---	54.00	16.66	1000.000	202.0	V	121.0	18.2
17360.200000	---	51.83	74.00	22.17	1000.000	257.0	H	189.0	20.6
17360.200000	39.22	---	54.00	14.78	1000.000	257.0	H	189.0	20.6

5 Measurement Uncertainty

The measured value related to the corresponding limit will be used to decide whether the equipment meets the requirements.

The measurement uncertainty figures were calculated and correspond to a coverage factor of $k = 2$, providing a confidence level of respectively 95.45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian).

Measurement uncertainty Table

Parameter	Uncertainty	Notes
Radiated emissions, 30 to 1000 MHz	+3.9dB	
Radiated emissions, 1 to 18 GHz	+4.2dB	
Radiated emissions, 18 to 40 GHz	+4.3dB	
Power Port Conducted emissions, 150kHz to 30 MHz	+2.8dB	

6 Revision History

Revision Level	Date	Report Number	Notes
0	10/22/2015	101968343LEX-001	Original Issue