

# Spectrum Brands, Inc. dba Kwikset TEST REPORT

#### **SCOPE OF WORK**

FCC 15.247 AND ISED RSS-247 ISSUE 2 TESTING - KWIKSET 942 / WEISER GED1850

#### REPORT NUMBER

104650309LAX-001

#### **ISSUE DATE**

May 5, 2021

#### **PAGES**

21

# **DOCUMENT CONTROL NUMBER**

Non-Specific Radio Report Shell Rev. December 2017 © 2017 INTERTEK





# **EMC TEST REPORT**

(FULL COMPLIANCE)

Report Number: 104650309LAX-001 Project Number: G104650309

Report Issue Date: May 5, 2021

Model(s) Tested: Kwikset 942 / Weiser GED1850

Standards: FCC CFR47 Part 15 Subpart C, April 2018

**Intentional Radiator** 

§15.247, Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and

5725-5850 MHz

(Output Power and Radiated Spurious Emissions only)

ISED RSS-247 Issue 2, February 2017

Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices (Output Power and Radiated Spurious Emissions only)

ISED RSS-Gen Issue 5, April 2018

General Requirements for Compliance of Radio Apparatus

Tested by: Client:

Intertek Spectrum Brands, Inc. dba Kwikset 25791 Commercentre Drive 19701 DaVinci Lake Forest, CA 92630 Foothill Ranch, CA 92610

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# Intertek

Report Number: 104650309LAX-001 Issued: May 5, 2018

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#### 1 Introduction and Conclusion

This test report is to support a Class II Permissive Change (CIPC) to FCC ID: NUL-BLE-ZUL and IC: 3022A-BLEZUL, for the antenna change from Johanson antenna (PN: 2450AT43A100E) to Yageo antenna (PN: ANT7020LL05R2400A).

Output Power and Radiated Spurious Emissions measurements were performed and recorded in this test report.

The tests indicated in section 2.0 were performed on the product constructed as described in section 4.0. 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 **complies** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

## 2 Test Summary

Section	Test full name	Result
3	Client Information	-
4	Description of Equipment Under Test and Variant Models	-
5	System Setup and Method	-
6	Maximum Peak Conducted Output Power at Antenna Terminals (FCC §15.247(b)(3), ISED RSS-247 §5.4d)	Compliant
7	Radiated Spurious Emissions (FCC §15.247(d), §15.209, §15.205, ISED RSS-247 §5.5, ISED RSS-Gen §8.9)	Compliant
8	AC Mains Conducted Emissions (FCC §15.207, ISED RSS-Gen §8.8)	Not Applicable*
9	Revision History	-

<sup>\*:</sup> The EUT is battery powered

#### 3 Client Information

# This EUT was tested at the request of:

Client: Spectrum Brands, Inc. dba Kwikset

19701 DaVinci

Foothill Ranch, CA 92610

USA

Contact: Johanis Hashim Telephone: 949 672-4179

Email: Johanis.hashim@spectrumbrands.com

# 4 Description of Equipment Under Test and Variant Models

Manufacturer: Spectrum Brands, Inc. dba Kwikset

19701 DaVinci

Foothill Ranch, CA 92610

USA

Equipment Under Test					
Description Manufacturer Model Number Serial Number					
Wireless Deadbolt Lock	Spectrum Brands, Inc.	942-1850-ZUL	Engineering Test Samples		

Receive Date:	04/20/2021	Test Started	04/26/2021
Received Condition:	Good	Test Ended	04/29/2021
Type:	Production		

# Description of Equipment Under Test (provided by client)

The equipment under test is a wireless deadbolt with integrated Bluetooth Low Energy (BLE) transceiver.

Equipment Under Test Power Configuration					
Rated Voltage Rated Current Rated Frequency Number					
6 Vdc	-	-	-		

## Operating modes of the EUT:

ı	No.	Descriptions of EUT Exercising
	1	Test Mode – Continuously Transmitting normal modulated signal (GFSK modulation).

# Software used by the EUT:

No.	Descriptions of EUT Exercising
1	Under test mode, the EUT was programmed to transmit continuously (GFSK modulation) during testing.

Radio/Receiver Characteristics			
Frequency Band(s)	2402 MHz – 2480 MHz		
Modulation Type(s)	GFSK		
Maximum Output Power	-5.06 dBm (0.312 mW)		
Test Channels	2402 MHz, 2440 MHz, 2480 MHz		
Occupied Bandwidth	(Refer to Intertek 103638701LAX-001 test report)		
Frequency Hopper: Number of Hopping Channels	Not Applicable		
Frequency Hopper: Channel Dwell Time	Not Applicable		
Frequency Hopper: Max interval between two instances of use of the same channel	Not Applicable		
MIMO Information (# of Transmit and Receive antenna ports)	Not Applicable		
Equipment Type	Standalone		
Antenna Type and Gain*	Permanent attached SMD antenna. Peak Antenna Gain: 2.62 dBi		

<sup>\*</sup>Antenna type and gain were provided by Spectrum Brands. Intertek takes no responsibility for the accuracy of the information provided.

#### **Variant Models:**

The following variant models were not tested as part of this evaluation but have been identified by the manufacturer as being electrically identical models, depopulated models, or with reasonable similarity to the model(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

> Kwikset 942 is identical to Weiser GED1850. Different model name is for different market.

# 5 System Setup and Method

	Cables					
ID	Description	Length (m)	Shielding	Ferrites	Termination	
1	None	-	-	-	-	

Support Equipment					
Description Manufacturer Model Number Serial Number					
None	-	-	-		

#### 5.1 Method:

Configuration as required by ANSI C63.10-2013.

# 5.2 Test Setup Block Diagram:

EUT

# 6 Maximum Peak Conducted Output Power at Antenna Terminals

#### 6.1 Requirement(s)

For antennas with gains of 6 dBi or less, maximum allowed transmitter output is 1 watt or 30 dBm. For antennas with gains greater than 6 dBi, transmitter output level must be decreased appropriately, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

# 6.2 Method

The procedure described in FCC Publication 558074 D01 15.247 Meas Guidance v05, August 24, 2018 was used. Specifically, Section  $8.3.1.1 \, RBW \ge DTS$  bandwidth was utilized as the spectrum analyzer's resolution bandwidth was greater than the DTS bandwidth.

- a) Set the RBW ≥ DTS Bandwidth
- b) Set the VBW  $\geq$  3 x RBW
- c) Set the span  $\geq$  3 x RBW
- d) Sweep time = Auto couple
- e) Detector = Peak
- f) Trace mode = Max Hold
- g) Allow trace to fully stabilize
- h) Use peak marker function to determine the peak amplitude level.

#### **TEST SITE:**

The test is performed in the 3 meter semi-anechoic chamber located at 25791 Commercentre Drive, Lake Forest, California 92630 USA. This test facility meets the requirements of CISPR 16-1-4 and has been accredited by A2LA. IC test site registration number is 2042T.

# 6.3 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
1669	EMI Test Receiver	R&S	ESW44	101636	06/05/2020	06/05/2021
2159	Scientific Ambient Monitor	Testo SE & Co. KGaA	Testo 622	39525175/0920	11/04/2020	11/04/2021

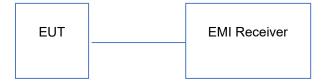
# **Software Utilized:**

Name	Manufacturer	Version	Profile
N/A	N/A N/A		N/A

#### 6.4 Results:

The sample tested was found to Comply.

# 6.5 Setup Diagram:

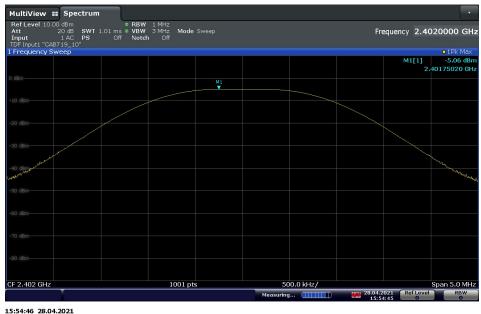


# 6.6 Plots/Data:

F (0.411-)	Peak Conducted Output Power				
Frequency (MHz)	dBm	mW			
2402	-5.06	0.312			
2440	-5.93	0.255			
2480	-6.40	0.229			

Note: The insertion loss was compensated for in the receiver

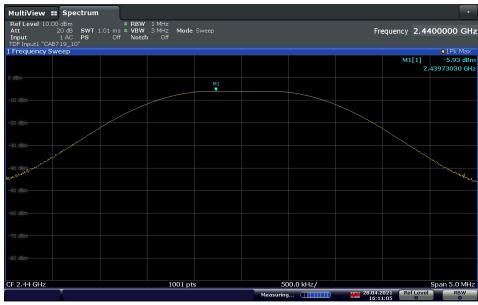
# Output Power, 2402 MHz:



15:54:46 28.04.2021

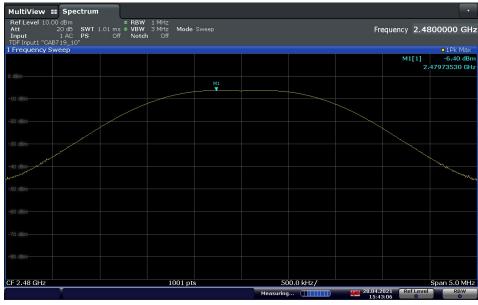
# 6.6 Plot/Data (Continue)

# Output Power, 2440 MHz:



#### 16:11:06 28.04.2021

# Output Power, 2480 MHz:



15:43:06 28.04.2021

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# 6.6 Plot/Data (Continue)

Test Personnel: **Grace Lin** Test Date: 04/28/2021 FCC §15.247, FCC §15.247, **Product Standard:** Limit Applied: ISED RSS-247 ISED RSS-247 Input Voltage: 6 Vdc Battery Ambient Temperature: 18.8 °C 47.4 % Relative Humidity: Pretest Verification w/ **BB Source:** N/A Atmospheric Pressure: 994.5 mbars

Deviations, Additions, or Exclusions: None

#### 7 Radiated Spurious Emissions

#### 7.1 Requirement(s)

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), shall comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

In any 100 kHz bandwidth outside the frequency band, the radio frequency power 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, 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 the RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB.

#### 7.2 Method

EUT was configured to transmit continuously. Radiated emission measurements were performed from 9 kHz to 25 GHz according to the procedure described in ANSI C64.10. Spectrum analyzer resolution bandwidth (RBW) is 9 kHz for frequencies 9 kHz to 30 MHz, 120 kHz for frequencies 30 MHz to 1000 MHz, and 1 MHz for frequencies above 1 GHz.

Above 1 GHz, both Peak and Average measurements were performed. The peak level of radiated emissions was measured with a RBW of 1 MHz, a video bandwidth (VBW) of 3 MHz, and a peak detector. The average level of radiated emissions was measured with a RBW of 1 MHz, a VBW of 3 MHz, and a RMS detector.

The EUT is placed on a non-conductive turntable that is 80 cm in height for frequencies 9 kHz to 1 GHz, 1.5 meters for frequency above 1 GHz. If the EUT attaches to peripherals, they are connected and operational (as typical as possible). During testing, all cables were manipulated to produce worst-case emissions. The signal is maximized through rotation. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters.

Radiated emissions are taken at 3 meters for frequencies below 18 GHz and 1 meter for frequencies above 18 GHz.

EUT was tested at vertical orientation (typical installation's orientation). Data included is representative of the worst-case configuration (the configuration which resulted in the highest emission levels). Plots below are corrected for distance, cables, preamp, filters and antenna factors then compared to the limits.

#### **TEST SITE:**

The test is performed in the 3 meter semi-anechoic chamber located at 25791 Commercentre Drive, Lake Forest, California 92630 USA. This test facility meets the requirements of CISPR 16-1-4 and has been accredited by A2LA. IC test site registration number is 2042T.

# **Measurement Uncertainty**

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucispr
Radiated Emissions, 3m	30-1000 MHz	4.3	6.3 dB
Radiated Emissions, 3m	1-18 GHz	4.7	5.2 dB
Radiated Emissions, 3m	18-26.5 GHz	5.5	-

As shown in the table above our radiated emissions  $U_{\it lab}$  is less than the corresponding  $U_{\it CISPR}$  reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

#### **Sample Calculation**

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF - AG

Where  $FS = Field Strength in dB\mu V/m$ 

RA = Receiver Amplitude (including preamplifier) in  $dB\mu V$ 

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

RA =  $52.0 \text{ dB}_{\mu}\text{V}$ AF = 7.4 dB/mCF = 1.6 dBAG = 29.0 dBFS =  $32 \text{ dB}_{\mu}\text{V/m}$ 

To convert from dB $\mu$ V to  $\mu$ V or mV the following was used:

```
UF = 10^{(NF/20)} where UF = Net Reading in \mu V
NF = Net Reading in dB\mu V
```

#### **Example:**

```
FS = RA + AF + CF - AG = 52.0 + 7.4 + 1.6 - 29.0 = 32.0
UF = 10^{(32 \text{ dB}\mu\text{V}/20)} = 39.8 \mu\text{V/m}
```

# 7.3 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
637	3m Semi-anechoic Chamber	Panashield	3 meter	25 331-D-Z	December 2018	December 2021
1669	EMI Test Receiver	R&S	ESW44	101636	06/05/2020	06/05/2021
1707	Bilog Antenna	sunAR	JB6	A110618	09/29/2020	09/29/2021
1576	Pre-amp	R&S	TS-PR1	102068	02/24/2021	02/24/2022
1515	Horn Antenna	ETS-Lindgren	3115	00161631	04/19/2021	04/19/2022
1556	Pre-amp	R&S	TS-PR18	102144	02/25/2021	02/25/2022
880	Horn Antenna	ETS-Lindgren	3116	00153521	04/19/2021	04/19/2023
590	Loop Antenna	EMCO	6502	9807-3213	07/14/2020	07/14/2021
1771	Cable	R&S	TSPR-B7	302614	02/24/2021	02/24/2022
1518	Cable	R&S	TSPR-B7	101529	02/25/2021	02/25/2022
2159	Scientific Ambient Monitor	Testo SE & Co. KGaA	Testo 622	39525175/0920	11/04/2020	11/04/2021

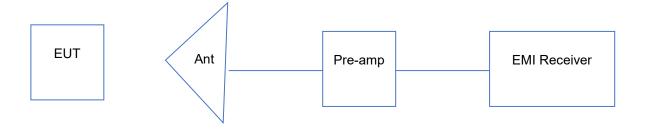
# **Software Utilized:**

Name	Manufacturer	Version	Profile
BAT-EMC	Nexio	3.19.1.19	Template Project 20200305

# 7.4 Results:

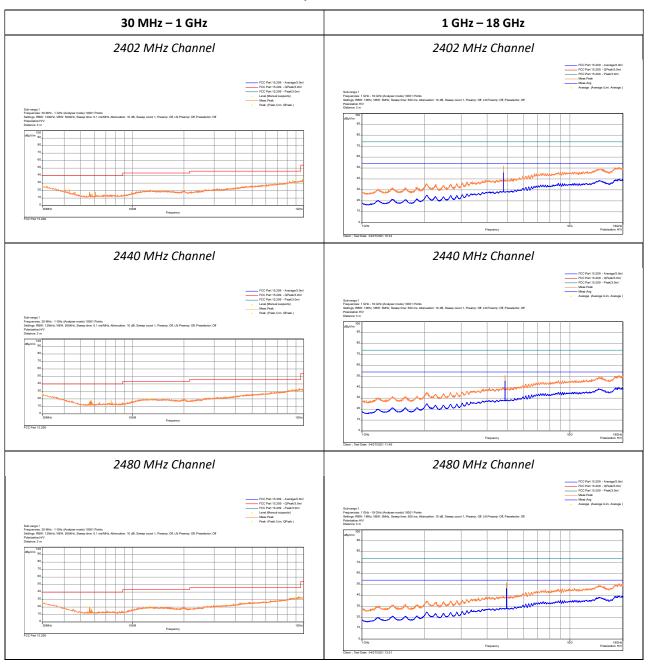
The sample tested was found to Comply.

# 7.5 Setup Diagram:



# 7.6 Plots/Data:

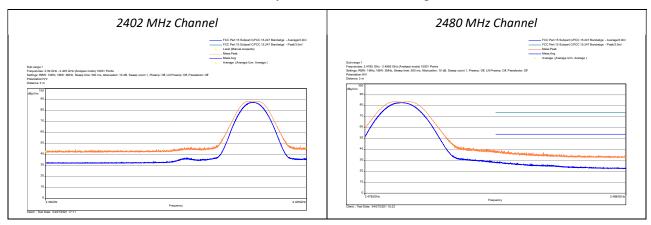
# **Radiated Spurious Emissions**



Note: Radiated spurious emissions measurements were performed from 9 kHz to 25 GHz.

# **7.6 Plots/Data:** (Continued)

# **Radiated Spurious Emissions, Bandedge**



# **7.6 Plots/Data:** (Continued)

#### 2402 MHz Channel:

Frequency (MHz)	Field Strength (dBµV/m)	Limits @3m (dBµV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)	Antenna Pol.	Correction (dB)	Detection
31.75	25.87	40	-14.13	4.00	357.75	Н	-6.52	PK
42.90	21.70	40	-18.30	1.02	182.75	V	-14.35	PK
56.19	17.50	40	-22.50	1.02	142.25	V	-18.65	PK
61.04	17.91	40	-22.09	3.02	322.25	Н	-18.33	PK
859.84	33.07	46	-12.93	1.02	76.00	V	-0.36	PK
981.67	34.25	54	-19.75	1.98	62.00	V	0.41	PK
2390	43.12	74	-30.88	1.5	187.5	Н	-8.62	PK
2390	31.03	54	-22.97	1.5	187.5	Н	-8.62	AV
4804	52.04	74	-21.96	1.5	140.5	Н	-11.28	PK
4804	47.72	54	-6.28	1.5	140.5	Н	-11.28	AV

Note: Radiated spurious emissions measurements were performed from 9 kHz to 25 GHz.

#### 2440 MHz Channel:

Frequency (MHz)	Field Strength (dBµV/m)	Limits @3m (dBµV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)	Antenna Pol.	Correction (dB)	Detection
30.10	26.49	40	-13.51	1.00	10.25	V	-5.35	PK
57.45	17.81	40	-22.19	1.00	117.00	V	-18.61	PK
75.30	17.45	40	-22.55	3.02	277.75	Н	-17.69	PK
126.90	20.22	43.5	-23.28	2.02	234.00	Н	-11.67	PK
859.64	32.62	46	-13.38	3.02	202.50	Н	-0.37	PK
939.76	34.1	46	-11.90	4.00	286.00	Н	0.16	PK
4880	51.32	74	-22.68	1.32	138.25	V	-11.24	PK
4880	46.92	54	-7.08	1.32	138.25	V	-11.24	AV

Note: Radiated spurious emissions measurements were performed from 9 kHz to 25 GHz.

# **7.6 Plots/Data:** (Continued)

# 2480 MHz Channel:

Frequency (MHz)	Field Strength (dBµV/m)	Limits @3m (dBµV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)	Antenna Pol.	Correction (dB)	Detection
30.39	25.23	40	-14.77	4.00	283.25	Н	-5.60	PK
56.19	19.85	40	-20.15	1.00	130.25	V	-18.65	PK
57.45	17.43	40	-22.57	1.00	356.00	V	-18.61	PK
124.28	20.44	43.5	-23.06	4.00	82.75	Н	-11.71	PK
891.36	32.57	46	-13.43	3.02	244.50	Н	-0.33	PK
936.66	33.87	46	-12.13	1.98	170.00	V	0.13	PK
2483.5	40.34	74	-33.66	1.74	162.25	Н	-18.07	PK
2483.5	28.58	54	-25.42	1.74	162.25	Н	-18.07	AV
4960	48.94	74	-25.06	3.38	190	V	-11.03	PK
4960	43.90	54	-10.10	3.38	190	V	-11.03	AV

Note: Radiated spurious emissions measurements were performed from 9 kHz to 25 GHz.

Test Personnel:	Grace Lin	Test Date:	04/27/2021 - 04/29/2021
	FCC §15.247,		FCC §15.209,
Product Standard:	ISED RSS-247	Limit Applied:	RSS-Gen §8.9
Input Voltage:	6 Vdc	Ambient Temperature:	18.8 °C
Pretest Verification:	Yes	Relative Humidity:	47.4 %
		Atmospheric Pressure:	994.5 mBar

Deviations, Additions, or Exclusions: None

#### 8 AC Mains Conducted Emissions

#### 8.1 Performance Criterion

Frequency Band	ConductedLimit dB(μV)				
MHz	Quasi-Peak	Average			
0.15-0.50	66 to 56 *	56 to 46 *			
0.50-5.00	56	46			
5.00-30.00	60	50			

Note: \*Decreases linearly with the logarithm of the frequency At the transition frequency the lower limit applies.

#### 8.2 Method

Tests are performed in accordance with ANSI C63.4-2014.

Measurements are carried out using quasi-peak and average detector receivers in accordance with CISPR 16. An AMN is required to provide a defined impedance at high frequencies across the power feed at the point of measurement of terminal voltage and also to provide isolation of the circuit under test from the ambient noise on the power lines. An AMN as defined in CISPR 16 shall be used.

The EUT is located so that the distance between the boundary of the EUT and the closest surface of the AMN is 0.8m.

Where a flexible mains cord is provided by the manufacturer, this shall be 1m long or if in excess of 1m, the excess cable is folded back and forth as far as possible so as to form a bundle not exceeding 0.4m in length.

The EUT is arranged and connected with cables terminated in accordance with the product specification.

Conducted disturbance is measured between the phase lead and the reference ground, and between the neutral lead and the reference ground. Both measured values are reported.

The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. A vertical, metal reference plane is placed 0.4m from the EUT. The vertical metal reference-plane is at least 2m by 2m. The EUT shall be kept at least 0.8m from any other metal surface or other ground plane not being part of the EUT. The table is constructed of non-conductive materials. Its dimensions are 1m by 1.5m, but may be extended for larger EUT.

Floor standing EUT are placed on a horizontal metal ground plane and isolated from the ground plane by resting on an insulating material. The metal ground plane extends at least 0.5m beyond the boundaries of the EUT and has minimum dimensions of 2m by 2m.

Equipment setup for conducted disturbance tests followed the guidelines of ANSI C63.4.

#### **TEST SITE:**

The test is performed in the 3 meter semi-anechoic chamber located at 25791 Commercentre Drive, Lake Forest, California 92630 USA. This test facility meets the requirements of CISPR 16-1-4 and has been accredited by A2LA. IC test site registration number is 2042T.

#### **Measurement Uncertainty**

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucispr
AC Line Conducted Emissions	150 kHz - 30 MHz	2.1 dB	3.4dB

As shown in the table above our conducted emissions  $U_{\it lab}$  is less than the corresponding  $U_{\it CISPR}$  reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

#### **Sample Calculations**

The following is how net line-conducted readings were determined:

NF = RF + LF + CF + AF

Where NF = Net Reading in  $dB\mu V$ 

RF = Reading from receiver in  $dB\mu V$ LF = LISN or ISN Correction Factor in dB CF = Cable Correction Factor in dB AF = Attenuator Loss Factor in dB

To convert from dB $\mu$ V to  $\mu$ V or mV the following was used:

UF =  $10^{(NF/20)}$  where UF = Net Reading in  $\mu V$ NF = Net Reading in  $dB\mu V$ 

#### **Example:**

NF = RF + LF + CF + AF = 28.5 + 0.2 + 0.4 + 20.0 = 49.1 dB 
$$\mu V$$
 UF =  $10^{(49.1\,dB\mu V\,/\,20)}$  = 285.1  $\mu V/m$ 

# 8.3 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
-	-	-	-	-	-	-

#### **Software Utilized:**

Name	Manufacturer	Version	Profile
N/A	N/A	N/A	N/A

## 8.4 Results:

This test is not applicable as the equipment under test is battery powered.

# Intertek

Report Number: 104650309LAX-001 Issued: May 5, 2018

# 9 Revision History

Revision Level	Date	Report Number	Prepared By	Reviewed By	Notes
0	05/05/2021	104650309LAX-001	GL	US	Initial Issue