



Product Service

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## Report On

FCC and Industry Canada Testing of the Kohler Co.  
KARING 2.0 INTELLIGENT TOILET K-77780 10.525GHz  
In accordance with FCC CFR 47 Part 15C & Industry Canada RSS-210  
and Industry Canada RSS-GEN

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FCC ID: N82-KOHLER020  
IC ID: 4554A-KOHLER020

Document 708881622804-00 Report 01 Issue 1

Aug 2016



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TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch  
No.88 Heng Tong Road, Shanghai 200070, P.R. China  
Tel: +86-(0)21 6141 0123. Website: [www.tuv-sud.cn](http://www.tuv-sud.cn)

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**REPORT ON**

FCC and INDUSTRY CANADA Testing of the  
Kohler Co.  
KARING 2.0 INTELLIGENT TOILET K-77780  
In accordance with FCC CFR 47 Part 15C & Industry Canada RSS-  
210 and Industry Canada RSS-GEN

Document 708881550725-00 Report 01 Issue 1

Aug 2016

**PREPARED FOR**

Kohler Co.

**PREPARED BY**

**Wenwen Cheng**  
Project Engineer

**APPROVED BY**

**Hui TONG**  
Project Engineer

**DATED**

Aug 26, 2016

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**ENGINEERING STATEMENT**

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Part 15C & Industry Canada RSS-210 and Industry Canada RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

Test Engineer(s);

Wenwen Cheng

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## **SECTION 1**

### **REPORT SUMMARY**

FCC & INDUSTRY CANADA Testing of the  
Kohler Co.  
KARING 2.0 INTELLIGENT TOILET  
K-77780

In accordance with FCC CFR 47 Part 15C & Industry Canada RSS-210 and Industry Canada RSS-GEN



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## 1.1 INTRODUCTION

The information contained in this report is intended to show verification of the FCC and INDUSTRYCANADA Testing of the Kohler Co. KARING 2.0 INTELLIGENT TOILET K-77780 to the requirements of FCC CFR 47 Part 15C & Industry Canada RSS-210 and Industry Canada RSS-GEN.

Objective	To perform FCC Testing to determine the Equipment Under Test's (EUT's) compliance with the Test Specification, for the series of tests carried out.
Manufacturer	Kohler Co.
Model Number(s)	K-77780
Serial Number(s)	Engineering sample
Number of Samples Tested	1
Test Specification/Issue/Date	FCC CFR 47 Part 15C (2014) Industry Canada RSS-210 Issue 9 (2016) Industry Canada RSS-GEN Issue 4 (2014)
Incoming Release Date	Application Form April 07, 2016
Order Number Date	Quote Acceptance Form April 07, 2016
Start of Test	January 25, 2016
Finish of Test	June 21, 2016
Name of Engineer(s)	Hui TONG
Related Document(s)	ANSI C63.10: 2009



## 1.2 BRIEF SUMMARY OF RESULTS

A brief summary of the tests carried out in accordance with FCC CFR 47 Part 15C & RSS-210 and RSS-GEN are shown below.

Section				Test Description	Result	Comments/Base Standard
	FCC	RSS -210	RSS-GEN			
Short range device wireless video transmitter DCS500T						
2.1	15.207	-	7.2.4	AC Line Conducted Emissions	Pass	Test Site 1
2.2	15.245 (a)	A2.9	-	Field Strength of Fundamental	Pass	Test Site 1
2.3	15.245 (a), 15.209	A2.9	-	Field Strength of Spurious Emissions	Pass	Test Site 1



Product Service

## 1.3 APPLICATION FORM

APPLICANT'S DETAILS	
COMPANY NAME :	Kohler Co.
ADDRESS :	444 Highland Drive Wisconsin United States .....
NAME FOR CONTACT PURPOSES : Timothy Stessman	
TELEPHONE NO: 920-457-4441 Extension: 2122	FAX NO: E-MAIL: timothy.stessman@kohler.com

EQUIPMENT INFORMATION	
MANUFACTURING DESCRIPTION	KARING 2.0 INTELLIGENT TOILET
MANUFACTURER	Kohler Co.
TYPE	K-77780
SERIAL NUMBER	Engineering sample
TRANSMITTER OPERATING RANGE	10.525GHz
COUNTRY OF ORIGIN	USA
Channel Number	1
Modulation Type	No modulation
Antenna Gain	8dbi
FCC ID	N82-KOHLER020
IC ID	4554A-KOHLER020
TECHNICAL DESCRIPTION (a brief description of the intended use and operation)	K-77780 is a Intelligent Toilet with 10.525GHz microwave detector function and 2.4GHz Transceiver
MANUFACTURING DESCRIPTION	The KARING 2.0 INTELLIGENT TOILET K-77780 was powered by 120V AC / 60Hz



Product Service

## **1.4 PRODUCT INFORMATION**

### **1.4.1 Technical Description**

The Equipment Under Test (EUT) K-5402 was a Kohler Co. KARING 2.0 INTELLIGENT TOILET K-77780. A full technical description can be found in the manufacturer's documentation.

## **1.5 TEST CONDITIONS**

For all tests the EUT was set up in accordance with the relevant test standard and to represent typical operating conditions. Tests were applied with the EUT situated in a shielded enclosure.

The EUT was powered from 120VAC, 60Hz.

Test Site 1:

FCC Accreditation 809388

IC Accreditation 11384A-1

Test Firm Name: MRT Technology (Suzhou) Co., Ltd

Location: D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

Test Site 2:

FCC Accreditation 904822

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

No.16 Lane, 1951 Du Hui Road,

Shanghai 201108,

P.R. China

## **1.6 DEVIATIONS FROM THE STANDARD**

No deviations from the applicable test standard were made during testing.

## **1.7 MODIFICATION RECORD**

Modification 0 - No modifications were made to the test sample during testing.



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## **SECTION 2**

### **TEST DETAILS**

FCC & INDUSTRY CANADA Testing of the Kohler Co.  
KARING 2.0 INTELLIGENT TOILET K-77780  
In accordance with FCC CFR 47 Part 15C & Industry Canada RSS-210 and Industry Canada  
RSS-GEN



Product Service

## **2.1 AC LINE CONDUCTED EMISSIONS**

### **2.1.1 Specification Reference**

FCC CFR 47 Part 15C, Clause 15.207 / Industry Canada RSS-GEN, Clause 7.2.4

### **2.1.2 Equipment Under Test and Modification State**

KARING 2.0 INTELLIGENT TOILET K-77780 set up the 10.525GHz detector distance and 2.4G TX maximum - Modification State 0

### **2.1.3 Date of Test**

May 23, 2016

### **2.1.4 Test Equipment Used**

The major items of test equipment used for the above tests are identified in Section 3.1.

### **2.1.5 Test Procedure**

The EUT is set up on a test table 800mm above a horizontal ground plane. A vertical ground plane is also required and is placed 400mm from the EUT. Where a EUT is floor standing it will be stood on but insulated from the ground plane by up to 12mm.

The EUT is powered through a Line Impedance Stabilisation Network (LISN) which is bonded to the ground plane. The EUT is located so that the distance between the EUT and the LISN is no less than 800mm. Where possible the cable between the mains input of the EUT and the LISN is 1m. Where this is not possible the cable is non inductively bundled with the bundle not exceeding 400mm in length.

A preliminary profile of the Conducted Emissions is obtained over the frequency range 150kHz to 30MHz. Any points of interest are noted for formal measurements.

During formal measurements, the measuring receiver is tuned to the emission of interest where Quasi – Peak and Average measurements are performed in a 9kHz Video and Resolution Bandwidth.

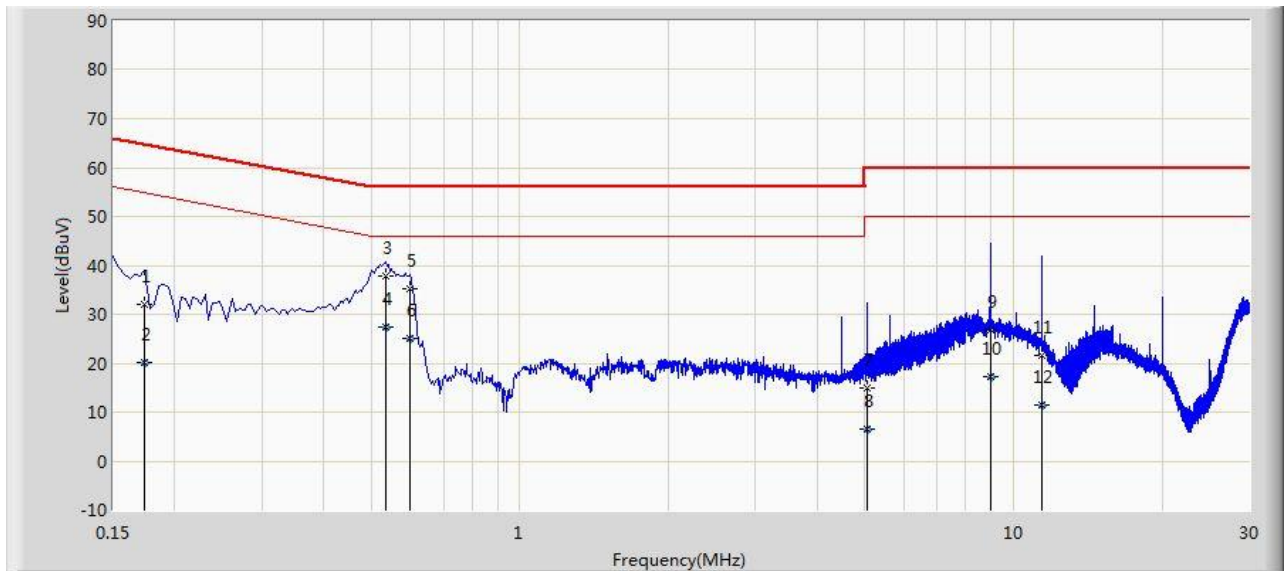
### **2.1.6 Environmental Conditions**

Ambient Temperature	23.4°C
Relative Humidity	52.8%



### 2.1.7 Test Results

Product Type : KARING 2.0 INTELLIGENT TOILET  
 M/N : K-77780  
 Operating Condition : Transmit at 10.525GHz and 2.4G  
 Test Specification : FCC\_Part15.207\_CE\_AC Power  
 Comment : AC 120V/60Hz, Line



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.174	32.057	21.989	-32.710	64.767	10.068	QP
2			0.174	20.237	10.169	-34.530	54.767	10.068	AV
3		*	0.534	37.775	27.626	-18.225	56.000	10.149	QP
4			0.534	27.475	17.326	-18.525	46.000	10.149	AV
5			0.598	35.346	25.230	-20.654	56.000	10.116	QP
6			0.598	24.957	14.841	-21.043	46.000	10.116	AV
7			5.042	14.826	4.790	-45.174	60.000	10.037	QP
8			5.042	6.655	-3.382	-43.345	50.000	10.037	AV
9			8.986	26.685	16.532	-33.315	60.000	10.153	QP
10			8.986	17.273	7.120	-32.727	50.000	10.153	AV
11			11.438	21.560	11.463	-38.440	60.000	10.097	QP
12			11.438	11.437	1.340	-38.563	50.000	10.097	AV

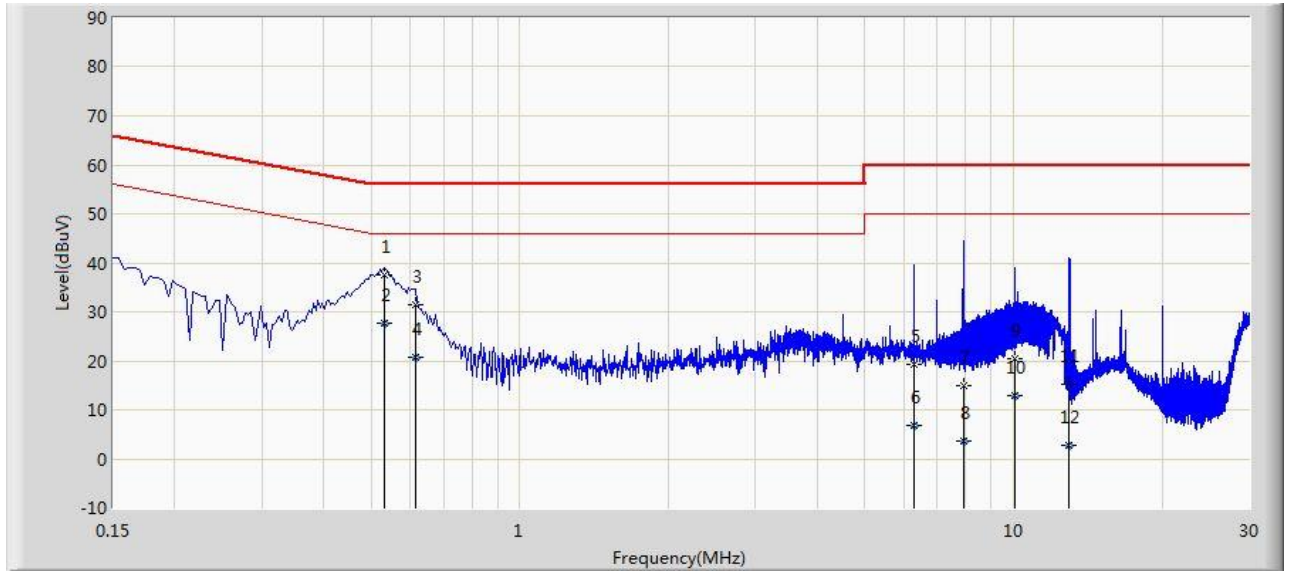
Note: Measure Level (dBuV) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).



Product Service

Product Type : KARING 2.0 INTELLIGENT TOILET  
 M/N : K-77780  
 Operating Condition : Transmit at 10.525GHz and 2.4G  
 Test Specification : FCC\_Part15.207\_CE\_AC Power  
 Comment : AC 120V/60Hz, Neutral



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.530	37.436	27.267	-18.564	56.000	10.169	QP
2		*	0.530	27.757	17.588	-18.243	46.000	10.169	AV
3			0.614	31.570	21.446	-24.430	56.000	10.124	QP
4			0.614	20.606	10.483	-25.394	46.000	10.124	AV
5			6.286	19.400	9.258	-40.600	60.000	10.142	QP
6			6.286	6.706	-3.436	-43.294	50.000	10.142	AV
7			7.902	15.018	4.833	-44.982	60.000	10.185	QP
8			7.902	3.763	-6.423	-46.237	50.000	10.185	AV
9			10.050	20.430	10.263	-39.570	60.000	10.167	QP
10			10.050	13.008	2.841	-36.992	50.000	10.167	AV
11			12.958	15.182	5.082	-44.818	60.000	10.101	QP
12			12.958	2.664	-7.437	-47.336	50.000	10.101	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).



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## **2.2 FIELD STRENGTH OF FUNDAMENTAL**

### **2.2.1 Specification Reference**

FCC CFR 47 Part 15C, Clause 15.245 (b) / Industry Canada RSS-210, Clause A2.9

### **2.2.2 Equipment Under Test and Modification State**

KARING 2.0 INTELLIGENT TOILET K-77780 set up the 10.525GHz detector distance maximum - Modification State 0

### **2.2.3 Date of Test**

May 27, 2016

### **2.2.4 Test Equipment Used**

The major items of test equipment used for the above tests are identified in Section 3.1.

### **2.2.5 Test Procedure**

The EUT is placed on 12mm above the ground plane.

During formal measurement the spectrum analyser is tuned to the frequency of the fundamental. The turntable azimuth is adjusted from 0 to 360 degrees to determine the point at which the maximum level occurs. Then the height of the measuring antenna is adjusted from a height of 1m to 4m to determine the height at which the maximum level occurs. Once the point of maximum emission has been determined the emission is measured.

### **2.2.6 Environmental Conditions**

Ambient Temperature	24.1°C
Relative Humidity	52.9%



Product Service

**2.2.7 Test Results**10525 MHzFundamental

Fundamental Frequency (MHz)	Polarisation (Vertical/ Horizontal)	Reading Level	Factor	Field Strength	Over Limit	Limit		Type
		(dBµV/)	(dB)	dBµV/m	(dB)	(dBµV/m)	mV/m	AV/PK
10519.287	H	49.561	48.216	97.777	-50.223	148.0	25000	PK
10518.890	V	52.751	48.216	100.966	-47.034	148.0	25000	PK

Remark: Form the peak reading test found the emission below the AV limit, so the average (AV) test doesn't need to be performed.

Limit Clause 15.245 (b)

Fundamental Frequency (MHz)	Field Strength of Fundamental (millivolts/meter)
902 to 928	500
2435 to 2465	500
5785 to 5815	500
10500 to 10550	2500
24075 to 24175	2500



## **2.3 FIELD STRENGTH OF SPURIOUS EMISSIONS**

### **2.3.1 Specification Reference**

FCC CFR 47 Part 15C, Clause 15.245 (b)(3), 15.209 / Industry Canada RSS-210 and Industry Canada RSS-GEN

### **2.3.2 Equipment Under Test and Modification State**

KARING 2.0 INTELLIGENT TOILET K-77780 set up the 10.525GHz detector distance maximum - Modification State 0

### **2.3.3 Date of Test**

June 20, 2016

### **2.3.4 Test Equipment Used**

The major items of test equipment used for the above tests are identified in Section 3.1.

### **2.3.5 Test Procedure**

A preliminary profile of the Spurious Radiated Emissions is obtained up to the 10th harmonic of the EUT's fundamental frequency. For frequencies from 30MHz to 18GHz the EUT is placed on 100mm above the ground plane. For frequencies above 18GHz, the EUT height is increased by 200mm to a height of 1000mm. This is to ensure the beam width of the measuring antenna gives sufficient vertical coverage of the EUT.

During characterisation the turntable azimuth is adjusted from 0 to 360 degrees with the measuring antenna in one polarity. It is then repeated for the other polarity. Any frequencies of interest are noted for formal measuring later. The distance from the measuring antenna to the boundary of the EUT is 3m. Above 18GHz this distance may be reduced to 1m.

During formal measurement the spectrum analyser is tuned to the frequency of the emission. The turntable azimuth is adjusted from 0 to 360 degrees to determine the point at which the maximum emission level occurs. Then the height of the measuring antenna is adjusted from a height of 1m to 4m to determine the height at which the maximum emission level occurs. Once the point of maximum emission has been determined the emission is measured. Emissions in the 30MHz to 1GHz range are measured using a CISPR Quasi – Peak detector function in a 120kHz bandwidth. Emissions in the range 1GHz to 60GHz require Peak and Average measurements. The Peak measurements are made using a peak detector with 1MHz Resolution and Video bandwidths. The average measurements employ a peak detector with a Resolution bandwidth of 1MHz and a Video bandwidth of 10Hz. If measurements are made at a 1m measuring distance, then 10dB is added to the specification limit.

### **2.3.6 Environmental Conditions**

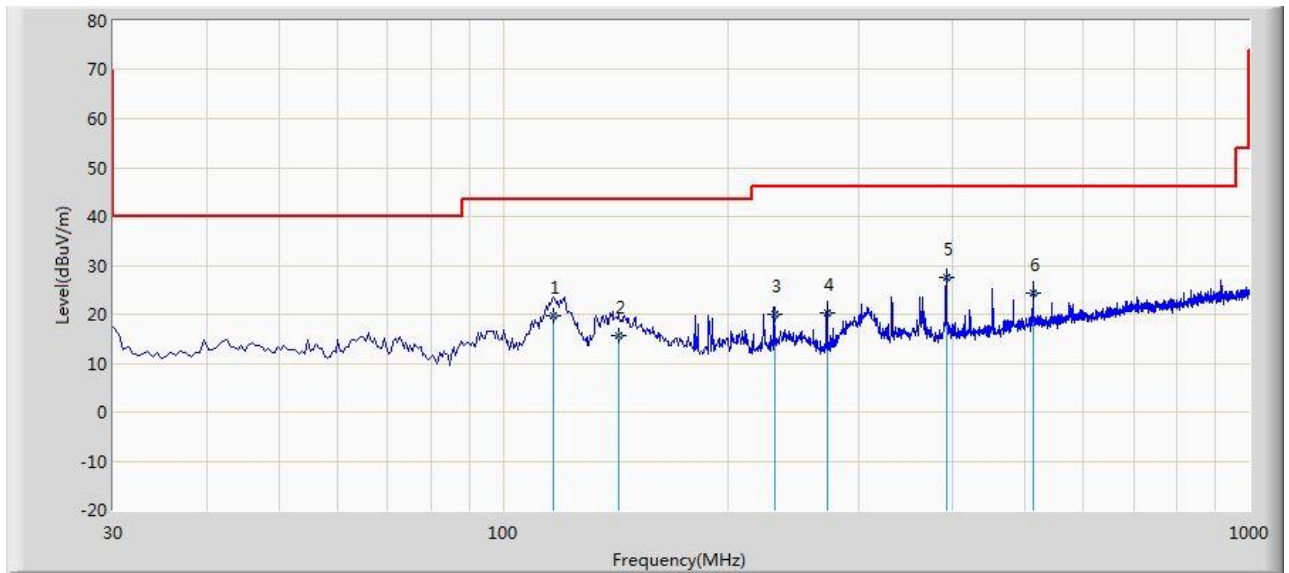
Ambient Temperature	22.3°C
Relative Humidity	54.2%



### 2.3.7 Test Results

30 MHz to 1 GHz

Horizontal Polarisation



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			116.930	19.683	7.920	-23.817	43.500	11.762	QP
2			142.630	15.540	6.090	-27.960	43.500	9.450	QP
3			230.840	20.089	6.980	-25.911	46.000	13.109	QP
4			271.480	20.399	6.310	-25.601	46.000	14.088	QP
5		*	392.310	27.629	11.060	-18.371	46.000	16.569	QP
6			513.080	24.371	5.850	-21.629	46.000	18.522	QP

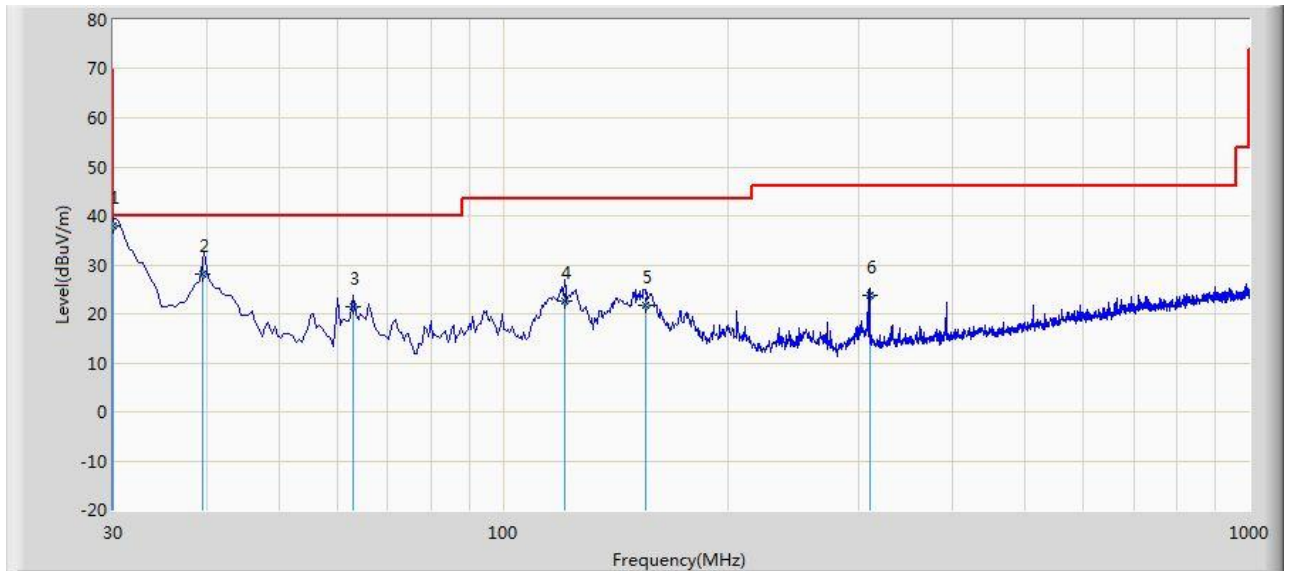
Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



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Vertical Polarisation



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	30.000	37.867	25.800	-2.133	40.000	12.067	QP
2			39.620	28.141	14.350	-11.859	40.000	13.791	QP
3			63.010	21.513	8.310	-18.487	40.000	13.203	QP
4			120.700	22.520	11.340	-20.980	43.500	11.179	QP
5			155.210	21.717	12.050	-21.783	43.500	9.667	QP
6			309.920	23.664	8.840	-22.336	46.000	14.824	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Above 1GHz

Frequency (MHz)	Polarisation (Vertical/ Horizontal)	Field Strength	Over Limit	Limit	Type
		dB $\mu$ V/m	(dB)	(dB $\mu$ V/m)	AV/PK
21047.00*	H	84.760	-23.240	108.00	PK
31563.00*	H	85.717	-22.283	108.00	PK

Frequency (MHz)	Polarisation (Vertical/ Horizontal)	Field Strength	Over Limit	Limit	Type
		dB $\mu$ V/m	(dB)	(dB $\mu$ V/m)	AV/PK
21047.00*	V	86.224	-21.776	108.00	PK
31563.00*	V	85.563	-22.437	108.00	PK

Note: Emission was scanned up to 60GHz; no emissions were detected above the noise floor which was at least 20dB below the specification limit.

Remark: Form the peak reading test found the emission below the AV limit, so the average (AV) test doesn't need to be performed.

Remark: "\*" is marked as harmonic frequency.

## 15.245(b)(1)

(1) Regardless of the limits shown in the above table, harmonic emissions in the restricted bands below 17.7 GHz, as specified in §15.205, shall not exceed the field strength limits shown in §15.209. Harmonic emissions in the restricted bands at and above 17.7 GHz shall not exceed the following field strength limits:

(i) For the second and third harmonics of field disturbance sensors operating in the 24075-24175 MHz band and for other field disturbance sensors designed for use only within a building or to open building doors, 25.0 mV/m.



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Limit Clause15.245 (b)

Fundamental Frequency (MHz)	Field Strength of Harmonics (microvolts/meter)
902 to 928	500
2435 to 2465	500
5785 to 5815	500
10500 to 10550	2500
24075 to 24175	2500

15.209

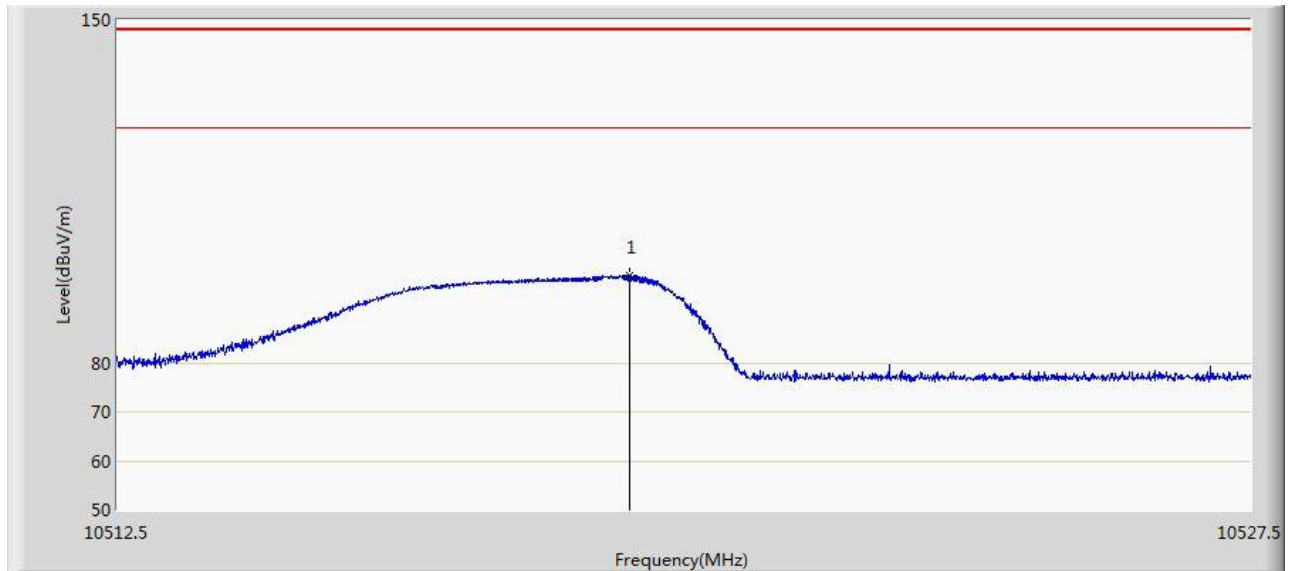
Frequency (MHz)	Field Strength (microvolts/meter)
0.009 to 0.490	2400/F (kHz)
0.490 to 1.705	24000/F (kHz)
1.705 to 30.0	30
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500



### Band Edge Emissions

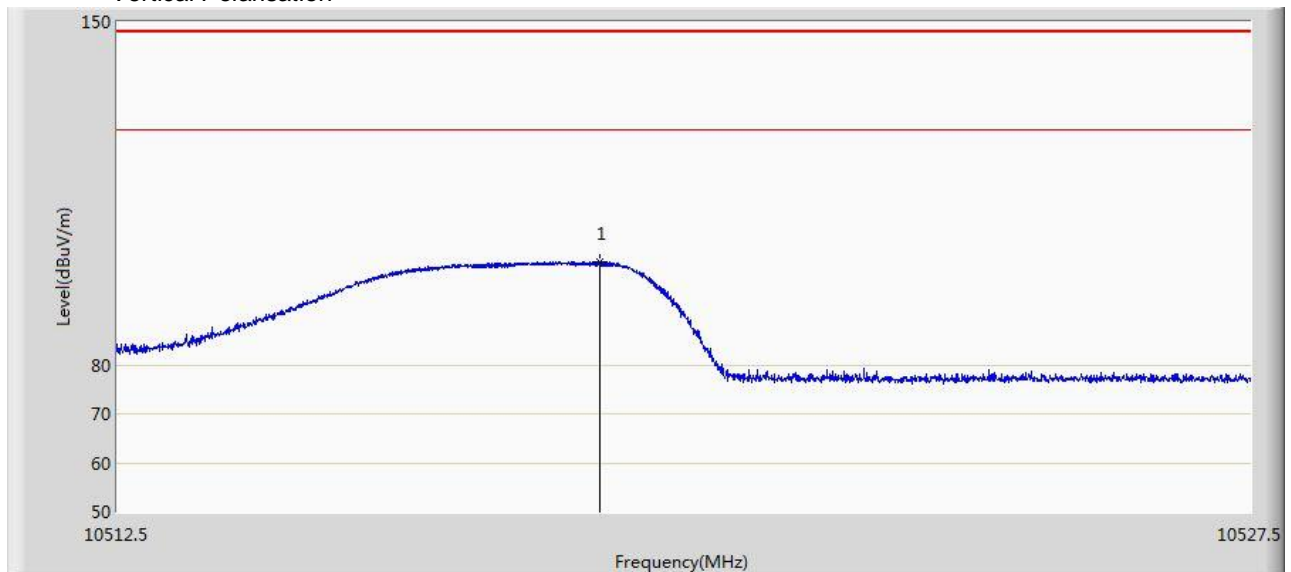
The requirement is to ensure the 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified, is contained within the frequency band designated in the rule section under which the equipment is operated.

#### Horizontal Polarisation



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	10519.287	97.777	49.561	-50.223	148.000	48.216	PK

#### Vertical Polarisation



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	10518.890	100.966	52.751	-47.034	148.000	48.216	PK



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## **2.4 OCCUPIED BANDWIDTH**

### **2.4.1 Specification Reference**

FCC CFR 47 Part 2: 2008, Clause 2.1049(h) / RSS 210 Issue 9

### **2.4.2 Equipment Under Test and Modification State**

KARING 2.0 INTELLIGENT TOILET K-77780 set up the 10.525GHz detector distance maximum - Modification State 0

### **2.4.3 Date of Test**

January 25, 2016

### **2.4.4 Test Equipment Used**

The major items of test equipment used for the above tests are identified in Section 3.1.

### **2.4.5 Test Procedure**

The test was applied in accordance with the test method requirements of FCC CFR 47 Part 2: 2008.

Connect EUT's antenna terminal to the spectrum analyser via a low loss cable with transmitting mode.

Adjust the centre frequency of the spectrum analyser on the frequency be measured, and set for peak detector mode; max hold trace mode RBW=100 KHz and VBW=300 KHz.

The span of the analyzer approximately 2 to 3 times the channel bandwidth shall be set to capture all products of the modulation process, including the emission skirts. Use the marker-to-peak function to set the marker to the peak of the emission.

Use the OBW function to measure -20db bandwidth and 99% emission bandwidth..

### **2.4.6 Environmental Conditions**

Ambient Temperature	23.6°C
Relative Humidity	56.0%



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2.4.7 Test Results

Frequency (GHz)	20dB Occupied Bandwidth (MHz)
10.525	2.13

Frequency (GHz)	99% Occupied Bandwidth (MHz)
10.525	2.99





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### **SECTION 3**

#### **TEST EQUIPMENT USED**



### 3.1 TEST EQUIPMENT USED

#### List of Test Instruments

##### Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2016/11/03
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2016/11/03
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2016/11/03
Temperature/Humidity Meter	Ouleinuo	N/A	MRTSUE06114	1 year	2016/11/20

##### Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	E4447A	MRTSUE06028	1 year	2016/12/08
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2016/11/03
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2017/04/16
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2017/03/29
Loop Antenna	Schwarzbeck	FMZB1519	MRTSUE06025	1 year	2016/12/14
TRILOG Antenna	Schwarzbeck	VULB9162	MRTSUE06022	1 year	2016/11/07
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06023	1 year	2016/11/07
Broadband Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06024	1 year	2017/01/05
Temperature/Humidity Meter	Ouleinuo	N/A	MRTSUE06115	1 year	2016/11/20



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### 3.2 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

<b>System Measurement Uncertainty</b>	
Test Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber 9kHz-1000MHz	4.18dB
Uncertainty for Radiated Emission in 3m chamber 1000MHz-40000MHz	4.76dB
Uncertainty for Conducted Emission 150KHz-30MHz	3.46dB



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## **SECTION 4**

### **DISCLAIMERS AND COPYRIGHT**



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#### **4.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT**

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