

EMC TEST REPORT

Repo	ort No.	: 150300260TWN-001		
Mode	el No.	: T-7XI-C, HURESAC-7XI-C		
Issue	ed Date	: Jul. 06, 2015		
Applicant:	Johnso	on Health Tech. Co., Ltd.		
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	428, Ta	iwan, R.O.C.		
Test Method/ Standard:	47 CFF	R FCC Part 15.225		
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Table of Contents

1. Summary of Test Data	4
2. General Information	5
2.2 Description of EUT	6
3. Fundamental emission	7
3.1 Operating environment	7
3.2 Limit for Fundamental emission	7
3.3 Measuring instrument setting	7
3.4 Test procedure	8
3.5 Test diagram	8
3.6 Test result	9
4. 20 dB Bandwidth	10
4.1 Operating environment	10
4.2 Limit for 20 dB bandwidth	10
4.3 Measuring instrument setting	10
4.4 Test procedure	10
4.5 Test results	11
5. Frequency Satiability	12
5.1 Operating environment	12
5.2 Limit for Frequency Satiability	12
5.3 Measuring instrument setting	12
5.4 Test procedure	12
5.5 Test result	13
6. In band Radiated Emissions	15
6.1 Operating environment	15
6.2 Limit for emissions in non-restricted frequency bands	15
6.3 Measuring instruments setting	15
6.4 Test procedure	16
6.5 Test diagram	16
6.6 Test results	17
7. Out of band Radiated Emissions	18
7.1 Operating environment	18
7.2 Limit for emission in restricted frequency bands (Radiated emission measurement)	18
7.3 Measuring instrument setting	19

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7.4 Test procedure	
7.5 Test configuration	
7.5.1 Radiated emission below 1GHz using Bilog Antenna	
7.6 Test result	
7.6.1 Measurement results: frequencies below 1 GHz	
8. AC Power Line Conducted Emission	
8.1 Operating environment	
8.2 Limit for AC power line conducted emission	
8.3 Measuring instrument setting	
8.4 Test procedure	
8.5 Test diagram	
8.6 Test results	
9. Antenna Requirement.	
9.1 Limit for Antenna Requirement	
9.2 Test results	
Appendix A: Test equipment list	
Appendix B: Measurement Uncertainty	



1. Summary of Test Data

Test Requirement	Applicable Rule (Section 15.225)	Result
Fundamental emission	15.225 (a)	Pass
20 dB Bandwidth	C63.4 2003	Pass
Frequency Satiability	15.225 (e)	Pass
In band Radiated Emissions	15.225(b),15.225(c)	Pass
Out of band Radiated Emissions	15.225(d)	Pass
AC Power Line Conducted Emission	15.207	Pass
Antenna Requirement	15.203	Pass

2. General Information

2.1 Identification of the EUT

Product:	TV Console			
Model No:	T-7XI-C, HURESAC-7XI-C			
FCC ID:	TN77XIDESCENDANT			
Operating Frequency:	13.56 MHz			
Access scheme:	ASK			
Rated Power:	AC 120 V from adapter			
Power Cord:	N/A			
Sample Received:	Mar. 10, 2015			
Sample condition:	Workable			
Test Date(s):	Mar. 12, 2015 ~ Jul. 06, 2015			
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Note 2:	When determining the test conclusion, the Measurement Uncertainty of test has been considered.			

2.2 Description of EUT

The EUT transmit 13.56MHz signal continuously while we power on the EUT.

For more detail features, please refer to User's manual as file name "Installation guide.pdf"

2.3 Antenna description

The EUT uses a permanently connected antenna.

Antenna Type : Loop Antenna Connector Type : Fixed

2.4 Adapter information

The EUT will be supplied with a power supply from below list:

No.	Model no.	Specification		
Adapter	LSE0107A1240	100-240V~, 50/60Hz, 1A		

The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual

3. Fundamental emission

3.1 Operating environment

Temperature:	25	°C
Relative Humidity:	55	%
Atmospheric Pressure	1008	hPa
Requirement & Test method	15.22	5 (a)

3.2 Limit for Fundamental emission

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 uV/m(83.99 dBuV/m) at 30 meters.

3.3 Measuring instrument setting

Spectrum analyzer settings				
Spectrum Analyzer function	Setting			
Detector	QP			
RBW	10 kHz			
Sweep	Auto couple			
Trace	Max hold			
Span	900 kHz			
Attenuation	Auto			

3.4 Test procedure

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

 Power on the EUT and all the companion devices. The turntable was rotated by 360 degree to find the position of the maximum emission level.
The height of the receiving antenna was one meter above ground to find the

maximum emission field strength of the both plane and coaxial polarity

4. Set the test-receiver system to peak or CISPR quasi-peak detector with specified bandwidth under maximum hold mode.

3.5 Test diagram



3.6 Test result

Model: T-7XI-C

Polarity (circle)	Frequency (MHz)	Detection value	factor (dB/m)	Reading (dBµV)	value (dBµV/m)	Limit @ 3m (dBµV/m)	Tolerance (dB)
Plane	13.56	QP	7.58	35.56	49.16	124.00	-74.84
Coaxial	13.56	QP	7.58	33.35	46.95	124.00	-77.05

13.56MHz , Limit= 84dBuV +40 dB (decade) = 124 dB

Model: HURESAC-7XI-C

Polarity (circle)	Frequency (MHz)	Detection value	factor (dB/m)	Reading (dBµV)	value (dBµV/m)	Limit @ 3m (dBµV/m)	Tolerance (dB)
Plane	13.56	QP	13.60	34.99	48.59	124.00	-75.41
Coaxial	13.56	QP	13.60	37.64	51.24	124.00	-72.76

13.56MHz , Limit= 84dBuV +40 dB (decade) = 124 dB

4. 20 dB Bandwidth

4.1 Operating environment

Temperature:	25	°C
Relative Humidity:	55	%
Atmospheric Pressure	1008	hPa
Requirement & Test method	C	C63.4

4.2 Limit for 20 dB bandwidth

None

4.3 Measuring instrument setting

Spectrum analyzer settings					
Spectrum Analyzer function Setting					
Detector	Peak				
RBW	9kHz				
VBW	≧3 x RBW				
Sweep	Auto couple				
Trace	Allow the trace to stabilize.				
Span	\geq 1.2 times the 20 dB bandwidth				
Attenuation	Auto				

4.4 Test procedure

The 20 dB bandwidth was measured by spectrum analyzer connected to a receive antenna placed near the test sample while it is transmitting.



4.5 Test results

Agilent Spectru	m Analyzer - Occupied BW	1						
KI RL	RF 50 Ω DC		SENSE:INT <u>4</u> Center Freg: 13.560000	ALIGN OFF	12:15:43 PM Mar 31, 2015 Radio Std: None			
Nel Value	22.00 0.011	#IFC-sind out	Trig: Free Run	Avg Hold:>10/10	Padio Device: BTS			
		#IFGaln:LUW	HALEN. IV VID		Nadio Bevice: BTS			
10 dB/div	Ref Offset 2 dB							
Log								
12.0								
2.00								
-8.00								
-18.0								
-28.0		-						
-38.0								
-48.0								
-58.0								
-68.0								
Center 13. #Res BW	.56 MHz 9.1 kHz		#VBW 27 kH	z	Span 200 kHz Sweep 2.333 ms			
0								
Occup	ied Bandwidth							
	16	01.64 KHZ						
Transm	it Freq Error	2.586 kHz	OBW Power	99.00 %				
x dB Ba	ndwidth	94.62 kHz	x dB	-20.00 dB				
MSG				STATUS				
				- I				

Model: T-7XI-C, 20dB Bandwidth: 94.62 kHz

Model: HURESAC-7XI-C, 20dB Bandwidth: 140.6 kHz



5. Frequency Satiability

5.1 Operating environment

Temperature:	25	°C
Relative Humidity:	55	%
Atmospheric Pressure	1008	hPa
Requirement & Test method	15.225(6	e)

5.2 Limit for Frequency Satiability

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

5.3 Measuring instrument setting

Spectrum analyzer settings				
Spectrum Analyzer function	Setting			
Detector	Peak			
RBW	9kHz			
VBW	≧3 x RBW			
Sweep	Auto couple			
Trace	Allow the trace to stabilize.			
Span	Sufficient to see the complete emission BW			
Attenuation	Auto			

5.4 Test procedure

Turn the EUT on, and couple its output to a frequency counter or other frequency-measuring device of sufficient accuracy, considering the frequency tolerance with which the EUT shall comply.

5.5 Test result

Model: T-7XI-C

Temperature	Measuring frequency (MHz)	Voltage	Frequency
25	13.56	110Vac	13.559989
25	13.56	93.5Vac	13.560058
25	13.56	126.5Vac	13.559984

Temperature	Measuring frequency (MHz)	Voltage	Comparison frequency	Difference (MHz)	Difference (%)	Limit (%)	Result
-20	13.56022	110Vac	13.56	0.000220	0.001622%	±0.01	Pass
-10	13.560006	110Vac	13.56	0.000006	0.000044%	±0.01	Pass
0	13.56019	110Vac	13.56	0.000190	0.001401%	±0.01	Pass
10	13.560307	110Vac	13.56	0.000307	0.002264%	±0.01	Pass
20	13.5601	110Vac	13.56	0.000100	0.000737%	±0.01	Pass
30	13.560343	110Vac	13.56	0.000343	0.002529%	±0.01	Pass
40	13.560072	110Vac	13.56	0.000072	0.000531%	±0.01	Pass
50	13.560706	110Vac	13.56	0.000706	0.005206%	±0.01	Pass

Model: HURESAC-7XI-C

Temperature	Measuring frequency (MHz)	Voltage	Frequency
25	13.56	110Vac	13.560738
25	13.56	93.5Vac	13.56072
25	13.56	126.5Vac	13.560899

Temperature	Measuring Frequency (MHz)	Voltage	Comparison frequency	Difference (MHz)	Difference (%)	Limit (%)	Result
-20	13.560866	110Vac	13.56	0.000866	0.006386%	±0.01	Pass
-10	13.560795	110Vac	13.56	0.000795	0.005863%	±0.01	Pass
0	13.560482	110Vac	13.56	0.000482	0.003555%	±0.01	Pass
10	13.56014	110Vac	13.56	0.000140	0.001032%	±0.01	Pass
20	13.560903	110Vac	13.56	0.000903	0.006659%	±0.01	Pass
30	13.56056	110Vac	13.56	0.000560	0.004130%	±0.01	Pass
40	13.560657	110Vac	13.56	0.000657	0.004845%	±0.01	Pass
50	13.560066	110Vac	13.56	0.000066	0.000487%	±0.01	Pass

6. In band Radiated Emissions

6.1 Operating environment

Temperature:	25	°C
Relative Humidity:	55	%
Atmospheric Pressure	1008	hPa
Requirement	15.225(b),15.	225(c)

6.2 Limit for emissions in non-restricted frequency bands

Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

6.3 Measuring instruments setting

Spectrum analyzer settings						
Spectrum Analyzer function Setting						
Detector	QP					
RBW	10 kHz					
Sweep	Auto couple					
Trace	Max hold					
Span	900 kHz					
Attenuation	Auto					

6.4 Test procedure

Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
Power on the EUT and all the companion devices. The turntable was rotated by 360 degree to find the position of the maximum emission level.

3. The height of the receiving antenna is one meter above ground to find the maximum emission field strength of the both plane and coaxial polarity

4. Set the test-receiver system to peak or CISPR quasi-peak detector with specified bandwidth under maximum hold mode.

6.5 Test diagram



6.6 Test results

Worst case: Planar Polarity

Ref Level 127.00						
) dBµV	Mode Auto	FFT Input 1 AC			
1Rm Max						
Limit Check		PASS	m			
120 pB1200			<u> </u>			
110 dBµV						
100 dBµV						
90 dBµV						_
30 dBµ∀						_
70 dBµV						
io dBµV						
io dBµV						
40 dBµV			*			
30 dBµV	man		man human	m	m	
CF 13.56 MHz			501 pts		Spa	n 900.0 kH:
pectrum Emissic	on Mask	Sta	ndard: FCC 15.22	5 mask		
Tx Power		Tx Ba	ndwidth 3.840 MI	Hz	RBW 10.0	00 kHz
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	∆Limit
-450.000 kHz	-150.000 kHz	10.000 kHz	13.35880 MHz	34.11 dBµV	-6.50 dB	-46.39 di
-150.000 kHz	-7.000 kHz	10.000 kHz	13.55209 MHz	36.57 dBµV	-4.04 dB	-53.93 de
7.000 kHz	150.000 kHz	10.000 kHz	13.56791 MHz	36.62 dBµV	-3.99 dB	-53.88 di

Model: T-7XI-C

Date: 20.MAR.2015 14:10:25



Model: HURESAC-7XI-C

Date: 20.MAR.2015 13:22:38

7. Out of band Radiated Emissions

7.1 Operating environment

Temperature:	25	°C	
Relative Humidity:	55	%	
Atmospheric Pressure	1008	hPa	
Doguiromont	15.225(d), 15.205,		
Requirement	15.209		

7.2 Limit for emission in restricted frequency bands (Radiated emission measurement)

Frequency	Field Strength	Measurement distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	2400/F(kHz)	30
1.705~30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

- 1. In the above table, the tighter limit applies at the band edges.
- 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

7.3 Measuring instrument setting

Receiver settings					
Receiver function	Setting				
Detector	QP				
	9-150 kHz ; 200-300 Hz				
RBW	0.15-30 MHz; 9-10 kHz				
	30-1000 MHz; 100-120 kHz				
VBW	≧3 x RBW				
Sweep	Auto couple				
Attenuation	Auto				

7.4 Test procedure

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the companion devices. The turntable was rotated by 360 degree to find the position of the maximum emission level.
- 3. The height of the receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of the both horizontal and vertical polarization
- 4. If find the frequencies above the limit or below within 3dB, the antenna tower was scan (from 1m to 4m) and then the turntable was rotated to find the maximum reading.
- 5. Set the test-receiver system to peak or CISPR quasi-peak detector with specified bandwidth under maximum hold mode.
- 6. If the emissions level of the EUT in peak mode was 3dB lower than the average limit specified then testing will be stopped and peak values of the EUT will be reported. Otherwise, the emissions which do not have 3dB margin will be measured using the quasi-peak method for below 1GHz.
- 7. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be quasi-peak measured by receiver.



7.5 Test configuration

7.5.1 Radiated emission below 1GHz using Bilog Antenna



7.6 Test result

7.6.1 Measurement results: frequencies below 1 GHz

The test was performed on EUT under continuously transmitting mode.

EUT	: T-7XI-C
Worst Case	: Tx mode

Antenna Polariz. (V/H)	Freq. (MHz)	Detection value	factor (dB/m)	Reading (dBµV)	value (dBµV/m)	Limit @ 3m (dBµV/m)	Tolerance (dB)
V	31.58	QP	15.76	20.85	36.61	40.00	-3.39
V	36.30	QP	15.93	18.18	34.11	40.00	-5.89
V	72.02	QP	13.95	8.10	22.05	40.00	-17.95
V	96.19	QP	11.07	17.88	28.95	43.50	-14.55
V	121.93	QP	14.04	11.51	25.55	43.50	-17.95
V	135.58	QP	15.53	13.58	29.11	43.50	-14.39
Н	31.05	QP	15.75	4.03	19.78	40.00	-20.22
Н	37.35	QP	16.04	1.87	17.91	40.00	-22.09
Н	66.25	QP	15.04	4.49	19.53	40.00	-20.47
Н	96.19	QP	11.07	11.19	22.26	43.50	-21.24
Н	104.07	QP	12.10	10.80	22.90	43.50	-20.60
Н	135.58	QP	15.53	12.02	27.55	43.50	-15.95

Remark:

1. Corr. Factor = Antenna Factor + Cable Loss

2. Corrected Level = Reading + Corr. Factor

Note: The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.



EUT	: HURESAC-7XI-C
Worst Case	: Tx mode

Limit Antenna Tolerance Freq. Detection factor Reading value Polariz. @ 3m (MHz) value (dB/m)(dBµV) $(dB\mu V/m)$ (dB) (dBµV/m) (V/H)V 35.78 40.00 QP 15.87 23.69 39.56 -0.44 V 47.86 QP 7.77 24.76 40.00 -15.24 16.99 V 15.04 11.36 26.40 40.00 -13.60 66.25 QP V 96.19 QP 11.07 17.31 43.50 -15.12 28.38 V QP 11.37 16.83 43.50 -15.30 99.34 28.20 V 109.84 QP 13.05 11.09 24.14 43.50 -19.36 Н 35.25 QP 15.82 4.78 20.60 40.00 -19.40 Н 71.50 QP 14.05 4.33 18.38 40.00 -21.62 Н 85.68 QP 11.31 6.97 18.28 40.00 -21.72 Н 99.34 QP 11.37 10.05 21.42 43.50 -22.08 Н 119.82 QP 13.83 8.35 22.18 43.50 -21.32 Н 136.11 QP 15.59 9.73 25.32 43.50 -18.18

Remark:

1. Corr. Factor = Antenna Factor + Cable Loss

2. Corrected Level = Reading + Corr. Factor

Note: The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

8. AC Power Line Conducted Emission

8.1 Operating environment

Temperature:	20	°C
Relative Humidity:	58	%
Atmospheric Pressure	1009	hPa
Requirement	15.207	

8.2 Limit for AC power line conducted emission

Freq.	Conducted Limit (dBuV)				
(MHz)	Q.P.	Ave.			
0.15~0.50	66 – 56*	56 – 46*			
0.50~5.00	56	46			
5.00~30.0	60	50			

8.3 Measuring instrument setting

Receiver settings						
Receiver function	Setting					
Detector	QP					
Start frequency	0.15MHz					
Stop frequency	30MHz					
IF bandwidth	9 kHz					
Attenuation	10dB					

8.4 Test procedure

1. Configure the EUT according to ANSI C63.4. The EUT or host of EHT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.

2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network.

3. All the companion devices are connected to the other LISN. The LISN should provide



50Uh/50ohms coupling impedance.

4. The frequency range from 150 kHz to 30MHz was searched

5. Set the test-receiver system to peak detector and specified bandwidth with maximum hold mode.

6. The measurement has to be done between each power line and ground at the power terminal.

8.5 Test diagram



Note: The EUT was tested while in normal communication mode.

8.6 Test results

Phase EUT Test Condition			: Line : T-7XI-C : TX mod	е			
Frequency (MHz)	Corr. Factor (dB)	Level Qp (dBuV)	Limit Qp (dBuV)	Level Av (dBuV)	Limit Av (dBuV)	Over (Qp	Limit dB) Av
0.179 0.240 0.297 3.820 10.072 13.560	9.74 9.74 9.73 9.86 9.90 9.89	43.35 41.35 39.10 32.43 36.85 52.49	64.55 62.08 60.32 56.00 60.00 60.00	35.29 37.26 35.55 23.80 31.18 45.79	54.55 52.08 50.32 46.00 50.00 50.00	-21.20 -20.73 -21.22 -23.57 -23.15 -7.51	-19.26 -14.83 -14.77 -22.20 -18.82 -4.21

- 1. Corr. Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
- 2. Over Limit (dB) = Level (dBuV) Limit (dBuV)





Phase EUT	: Neutral : T-7XI-C						
Test Condition	: TX mode						
Frequency (MHz)	Corr. Factor (dB)	Level Qp (dBu∛)	Limit Qp (dBu∛)	Level Av (dBu∛)	Limit Av (dBuV)	Over (Qp	Limit dB) Av
0.239 0.299 0.417 1.077 3.472 13.560	9.74 9.73 9.73 9.84 9.86 9.95	42.10 37.31 36.30 34.37 25.40 50.08	62.13 60.28 57.51 56.00 56.00 60.00	37.82 34.30 35.69 28.38 18.49 45.95	52.13 50.28 47.51 46.00 46.00 50.00	-20.02 -22.97 -21.21 -21.63 -30.60 -9.92	-14.31 -15.98 -11.82 -17.62 -27.51 -4.05

- 1. Corr. Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
- 2. Over Limit (dB) = Level (dBuV) Limit (dBuV)





Phase EUT Test Condition	:	: Line : HURESAC-7XI-C : TX mode					
Frequency (MHz)	Corr. Factor (dB)	Level Qp (dBuV)	Limit Qp (dBu∀)	Level Av (dBu¥)	Limit Av (dBuV)	Over (Qp	Limit dB) Av
0.180 0.239 0.300 0.419 10.963 13.560	9.74 9.74 9.73 9.73 9.90 9.89	44.08 41.96 37.25 36.37 39.35 52.89	64.50 62.13 60.24 57.46 60.00 60.00	35.50 37.71 34.22 35.45 33.46 46.29	54.50 52.13 50.24 47.46 50.00 50.00	-20.43 -20.17 -22.99 -21.09 -20.65 -7.11	-19.01 -14.41 -16.02 -12.01 -16.54 -3.71

- 1. Corr. Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
- 2. Over Limit (dB) = Level (dBuV) Limit (dBuV)





Phase EUT Test Condition	: Neutral : HURESAC-7XI-C dition : TX mode						
Frequency (MHz)	Corr. Factor (dB)	Level Op (dBuV)	Limit Qp (dBu∛)	Level Av (dBuV)	Limit Av (dBuV)	Over (Qp	Limit dB) Av
0.179 0.240 0.299 0.839 3.881 13.560	9.74 9.74 9.73 9.81 9.86 9.95	43.84 40.85 36.79 29.89 34.86 52.57	64.55 62.08 60.28 56.00 56.00 60.00	35.87 36.50 34.29 24.68 28.45 45.75	54.55 52.08 50.28 46.00 46.00 50.00	-20.71 -21.23 -23.49 -26.11 -21.14 -7.43	-18.68 -15.59 -15.99 -21.32 -17.55 -4.25

- 1. Corr. Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
- 2. Over Limit (dB) = Level (dBuV) Limit (dBuV)



9. Antenna Requirement

9.1 Limit for Antenna Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

9.2 Test results

The sample tested met the antenna requirement. The antenna was a Loop Antenna attached to the circuit board by a Specific cable.

Appendix A: Test equipment list

Equipment	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
ESCI EMI Test Receiver	Rohde & Schwarz	ESCI	100018	2014/12/02	2015/12/01
Spectrum Analyzer	Rohde & Schwarz	FSP30	100137	2014/06/16	2015/06/15
Spectrum Analyzer	Rohde & Schwarz	FSEK30	100186	2015/01/14	2016/01/13
Broadband Antenna	Schwarzbeck	VULB 9168	9168-172	2013/08/08	2015/08/07
Loop Antenna	RolfHeine	LA-285	02/10033	2014/03/18	2016/03/16
Pre-Amplifier	MITEQ	JS4-26004000 27-8A	828825	2014/09/15	2015/09/14
Temperature&H umidity Test Chamber	TERCHY	MHU-225LRU (SA)	950838	2014/06/12	2015/06/11
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	838979/014	2014/10/05	2015/10/04
Singal Analyzer	Agilent	N9030A	MY51380492	2014/09/19	2015/09/18
966-2(A) Cable	SUHNER	SMA / EX 100	N/A	2015/05/06	2016/05/05
966-2(B) Cable	JUNFLON	SMA / J12J100880-00	AUG-26-08-002	2015/05/06	2016/05/05
RF Cable	SUHNER	SUCOFLEX 102	CB0006	2015/05/06	2016/05/05



Appendix B: Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.

Item	Uncertainty	
Vertically polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m		
Horizontally polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m	5.23 dB	
Vertically polarized Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m	4.19 dB	
Horizontally polarized Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m	4.3 dB	
Vertically polarized Radiated disturbances from 18GHz~40GHz in a semi-anechoic chamber at a distance of 3m	4.19 dB	
Horizontally polarized Radiated disturbances from 18GHz~40GHz in a semi-anechoic chamber at a distance of 3m		
Conducted Output power	0.86 dB	
Radiated electromagnetic disturbances in the frequency range from 9kHz to 30MHz		
Conducted disturbance measurements at a mains port from 9 kHz to 30 MHz using a 50 $\Omega/50 \mu$ H +5 Ω artificial mains network (AMN)		