

EMC Test Report

Project Number: 4772889 Proposal: 11292 Rev 3
Report Number: 4772889EMC03 Revision Level: 2
Client: Access Business Group LLC

Equipment Under Test: eSpring Water Purifier

Model/HVIN: 122940 and 122941

FCC ID: 2ALC4122942

IC: 22487-122942

Applicable Standards: FCC Part 15 Subpart C, §15.225

RSS-210, Issue 10, April 2020

ANSI C63.10: 2013

RSS-GEN, Issue 5, February 2021

Report originally issued on: 03 November 2021

Report revised on: 07 December 2023

Test Result: Compliant



FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

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1 Summary of Test Results

Test Description	Test Specification		Test Result
	FCC	ISED	
Bandwidth	15.215(c)	RSS-GEN 6.7	Reported
Field Strength of the Fundamental	15.225(a)	RSS-210 B.6(a)(i)	Compliant
Radiated Spurious Emissions / Restricted Bands	15.35(b),15.209, 15.215(b)	RSS-GEN S6.13 RSS-GEN S8.10	Compliant
Antenna Requirement	15.203	RSS-GEN S8.3	Compliant ¹
Frequency Stability	15.225(e)	RSS-210 B.6(b)	Compliant
AC Powerline Conducted Emission	15.207	RSS-GEN S8.8	Compliant

1) The antenna is an integral loop antenna.

1.1 Modifications Required to Compliance

None

2 General Information

2.1 Client Information

Name: Access Business Group LLC
Address: 7575 Fulton St East
City, State, Zip, Country: Ada, Michigan 49355 USA

2.2 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA
CAB Identifier: US0186

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01

2.3 General Information of EUT

Type of Product: eSpring Water Purifier
Model Numbers: 122940 and 122941
122940R and 122941R
122940CA and 122941CA

Note on models: The EUT device electronics is identical for all models; the only difference is in the accessory kit – diverter or faucet.

Serial Number: Sample ID: 5981
FCC ID: 2ALC4122942
IC: 22487-122942

RFID Frequency Range: 13.56 MHz
Data Modes: RFID
Antenna: Integral Loop

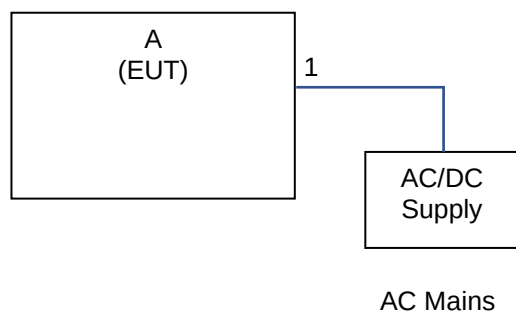
Rated Voltage: 24Vdc Supplied by 100-240Vac, 50/60 Hz Adapter

Sample Received Date: 07 May 2021
Dates of testing: 08 June – 07 August 2021

2.4 Operating Modes and Conditions

Once the EUT was powered on, the RFID automatically turned. The transmission was modulated without special software or firmware. Test commands were used to place the device at a faster duty-cycle. Normal operation transmits once per minute, but to facilitate testing, the RFID was configured to transmit once per second.

2.5 EUT Connection Block Diagram



2.6 System Configurations

Device reference	Manufacturer	Description	Model Number	Serial Number
A	Access Business Group LLC	UVC Water Purifier	122940 & 122941	Sample ID: 5981
B	Delta Electronics, Inc.	AC/DC Supply	DPP-45AB	JUZD0B4000K

2.7 Cable List

Cable reference	Port Name	Start	End	Cable Length (m)	Ferrite installed?	Shielded?
1	DC Power	EUT	AC/DC Supply	1m	Yes	No

3 Occupied Bandwidth

3.1 Test Result

Test Description	Basic Standards	Test Result
99% Bandwidth	RSS-GEN 6.7	Reported
20dB Bandwidth	15.215(c)	Compliant

3.2 Test Method

The 99% occupied bandwidth or 20dB down measurement function of the spectrum analyzer was employed.

3.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.5 °C

Relative Humidity: 51.9 %

Atmospheric Pressure: 97.9 kPa

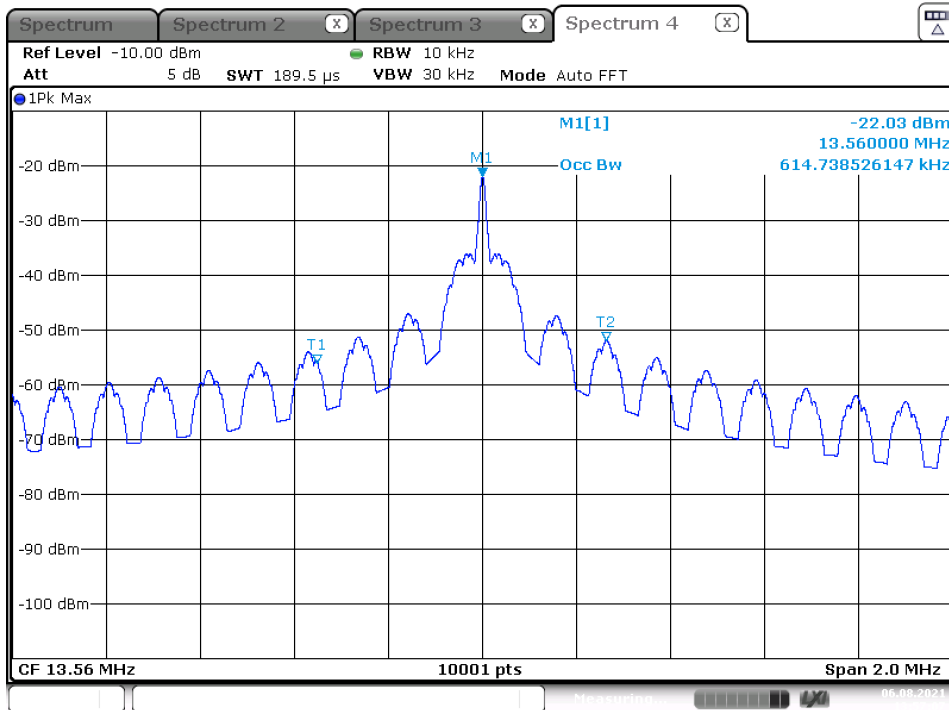
3.4 Test Equipment

Test End Date: 6-Aug-21

Tester: JOP

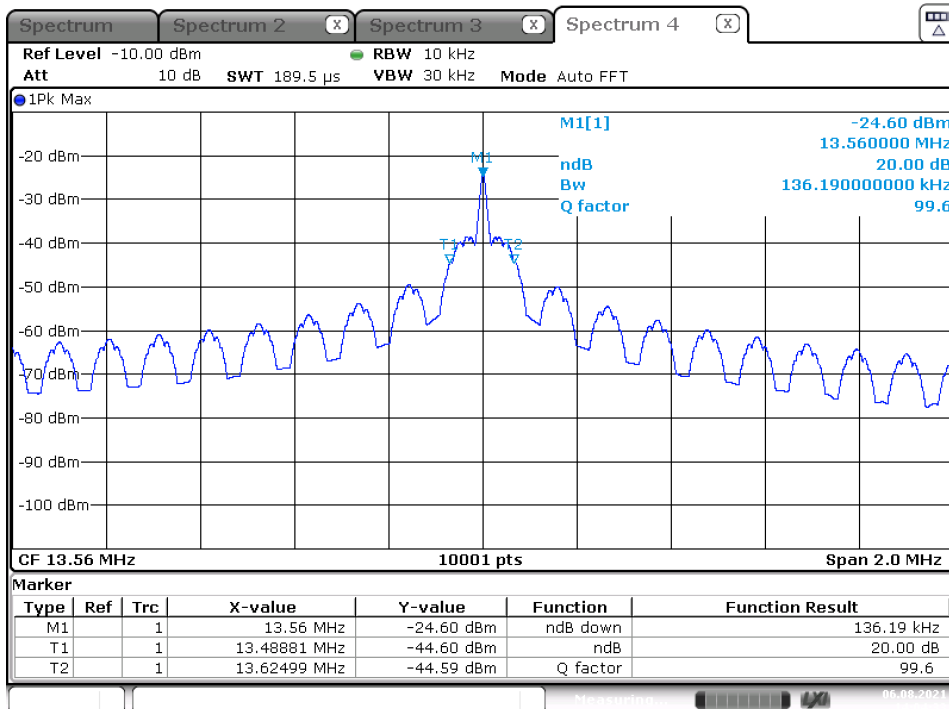
Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	27-Dec-19	27-Dec-21

3.5 Test Data



Date: 6.AUG.2021 13:57:07

99% Occupied Bandwidth = 614.74kHz



Date: 6.AUG.2021 14:04:33

20dB Bandwidth = 136.19kHz (This falls entirely within the designated frequency band 13.110-14.010MHz)

4 Field Strength of the Fundamental

4.1 Test Result

Test Description	Basic Standards	Test Result
Radiated Emissions	FCC Part 15, Subpart C RSS-210 ANSI C63.10:2013	Compliant

4.2 Test Method

For measuring the fundamental, the receiver's resolution bandwidth was set to 9kHz. A loop antenna was employed, and peak scans were taken with the loop open towards the EUT (Co-Axial) and with the loop in-line with the EUT (Co-Planar). The antenna height was fixed at 1 m and the EUT was rotated 360° to find the maximum emitting point. The radiated measurements were recorded and compared to the limits indicated in the table below.

Radiated emissions limits

Frequency Range (MHz)	Limits (μV/m) Quasi-Peak or Average	Measurement Distance (m)
13.110 – 13.410	106	30
13.410 – 13.553	334	30
13.553 – 13.567	15,848	30
13.567 – 13.710	334	30
13.710 – 14.010	106	30

Note: Limits were converted to dBμV/m at a distance of 3m using a 40dB/decade correction per §15.31(f)(2)

Example: at 13.56MHz, the limit is expressed as 15,848μV/m at 30m

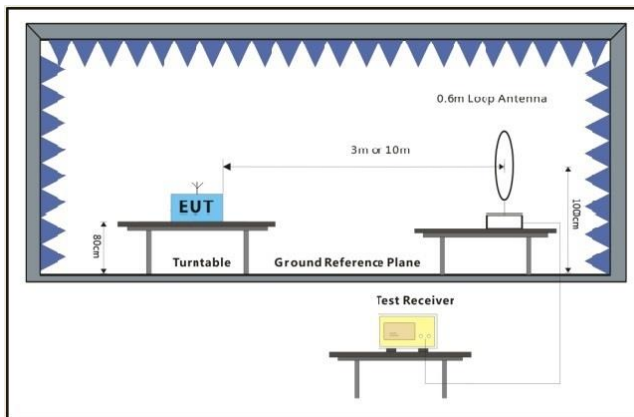
$20 \cdot \log(15,848) = 84 \text{ dB}\mu\text{V/m}$

30 to 3 meters is a single decade, so $84 + 40 = 124 \text{ dB}\mu\text{V/m}$

4.3 Test Site

3m Absorber Lined Shielded Enclosure (ALSE), Suwanee, GA

Temperature: 23.4 °C
Relative Humidity: 52.7 %
Atmospheric Pressure: 98.1 kPa



Below 30MHz

4.4 Test Equipment

Test End Date: 28-Jun-2021

Tester: PL

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
RF Cable Nm to Nf, 0.01-18GHz	90-213-118	TELEDYNE STORM MICROWAVE	20117	17-Feb-2021	17-Feb-2022
RF Cable Nm to Nm, 0.01-18GHz	90-195-354	TELEDYNE STORM MICROWAVE	20120	17-Feb-2021	17-Feb-2022
RF Cable Nm to Nm, 0.01-18GHz	90-195-157	TELEDYNE STORM MICROWAVE	20121	17-Feb-2021	17-Feb-2022
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	B079629	21-Jun-2021	21-Jun-2022
ANTENNA, LOOP, ACTIVE	6502	ETS Lindgren	B085752	20-Aug-2020	20-Aug-2022

Software:

“RSE 9k - 30M Active Red Loop 210302” TILE! profile dated 03 March 2021

4.5 Test Data

Frequency MHz	Raw Peak dBuV	Azimuth degrees	Height cm	AF dB	CL dB	Peak Value dBuV/m	QP Limit dBuV/m	Margin dB	Antenna (CA/CPV/CPH)	DUT Orientation
13.56	51.2	293.0	100.0	10.7	0.3	62.3	124.0	-61.7	CA	X
13.56	52.2	268.0	0.0	10.7	0.3	63.2	124.0	-60.8	CPV	X
13.56	54.0	264.0	0.0	10.7	0.3	65.0	124.0	-59.0	CPH	X
13.56	36.4	56.0	0.0	10.7	0.3	47.4	124.0	-76.6	CA	Y
13.56	39.3	44.0	0.0	10.7	0.3	50.3	124.0	-73.7	CPV	Y
13.56	40.0	221.0	0.0	10.7	0.3	51.0	124.0	-73.0	CPH	Y
13.56	50.3	115.0	0.0	10.7	0.3	61.3	124.0	-62.7	CA	Z
13.56	51.4	91.0	0.0	10.7	0.3	62.4	124.0	-61.6	CPV	Z
13.56	54.3	262.0	0.0	10.7	0.3	65.3	124.0	-58.7	CPH	Z

CA: Co-Axial

CPV: Co-Planar / Vertical

CPH: Co-Planar / Horizontal

5 Radiated Emissions

5.1 Test Result

Test Description	Basic Standards	Test Result
Radiated Emissions	FCC Part 15, Subpart C ANSI C63.4:2014	Compliant

5.2 Test Method

Exploratory scans were performed over the frequency range as indicated in the tables below using the max hold function and incorporating a Peak detector and using TILE! software. The final test data was measured using a Quasi-Peak detector below 1GHz and a Peak and Average detector above 1GHz. The receiver's resolution bandwidth was set to 1kHz for measurements taken below 150kHz, 9kHz for in the 150kHz to 30MHz range, 120 kHz in the 30MHz to 1GHz frequency range, and 1MHz for measurements of 1GHz and higher. For testing below 30MHz, a loop antenna was employed, and peak scans were taken with the loop open towards the EUT (Co-Axial) and with the loop in-line with the EUT (Co-Planar). Above 30MHz, a biconilog antenna was used and measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency. The radiated measurements were recorded and compared to the limits indicated in the table below.

Radiated emissions limits

Frequency Range (MHz)	Limits (μV/m) Quasi-Peak or Average	Measurement Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/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

Note: Limits were converted to dBμV/m using the equation $20 \cdot \text{LOG}(x)$. Additionally, for measurements below 30MHz, the limits were adjusted to a distance of 3m using a 40dB/decade correction per §15.31(f)(2)

Example: at 20MHz, the limit is expressed as 30μV/m at 30m

$$20 \cdot \log(30) = 29.5 \text{ dB}\mu\text{V/m}$$

30 to 3 meters is a single decade, so $29.5 + 40 = 69.5 \text{ dB}\mu\text{V/m}$

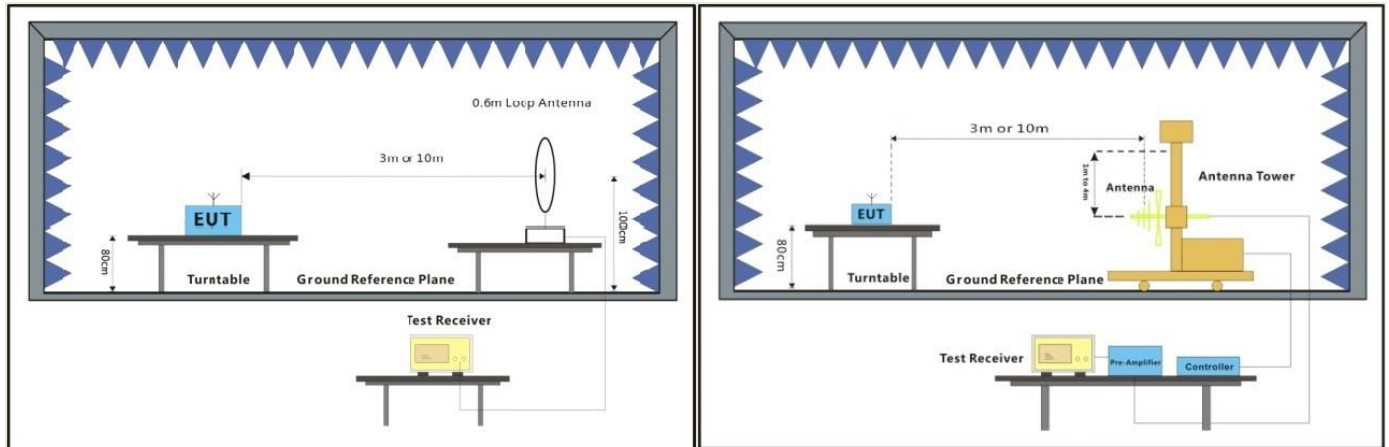
5.3 Test Site

3m Absorber Lined Shielded Enclosure (ALSE), Suwanee, GA

Temperature: 23.4 °C

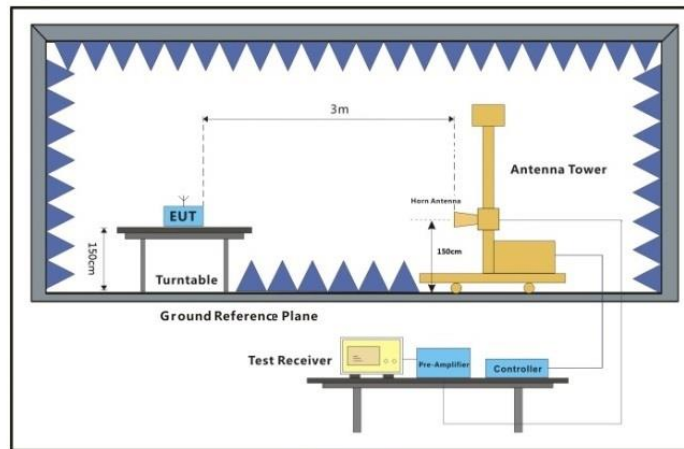
Relative Humidity: 52.7 %

Atmospheric Pressure: 98.1 kPa



Below 30MHz

30MHz-1GHz



Above 1GHz

5.4 Test Equipment

Test End Date: 28-Jun-2021

Tester: PL

Equipment	Model	Manufacturer	Asset	Cal Date	Cal Due Date
RF CABLE NM TO NF, 0.01-18GHZ	90-213-118	TELEDYNE STORM MICROWAVE	20117	17-Feb-2021	17-Feb-2022
RF CABLE NM TO NM, 0.01-18GHZ	90-195-354	TELEDYNE STORM MICROWAVE	20120	17-Feb-2021	17-Feb-2022
RF CABLE NM TO NM, 0.01-18GHZ	90-195-157	TELEDYNE STORM MICROWAVE	20121	17-Feb-2021	17-Feb-2022
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	B079629	21-Jun-2021	21-Jun-2022
ANTENNA, BILOG	JB6	SUNOL	B079689	5-Nov-2020	5-Nov-2022
LOW NOISE AMPLIFIER	ZKL-2+	MINI-CIRCUITS	B079800	25-Sep-2020	25-Sep-2021
ANTENNA, LOOP, ACTIVE	6502	ETS LINDGREN	B085752	20-Aug-2020	20-Aug-2022
RF CABLE	SUCOFLEX 100	HUBER & SUHNER	B108523	3-Sep-2020	3-Sep-2021

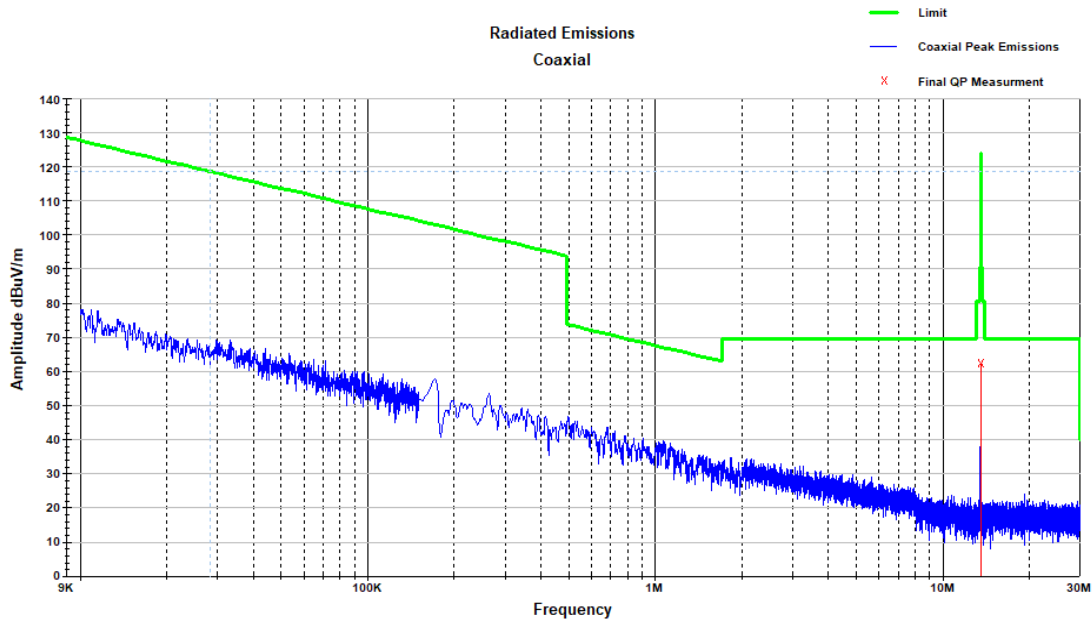
Software:

"RSE 9k - 30M Active Red Loop 210302" TILE! profile dated 03 March 2021

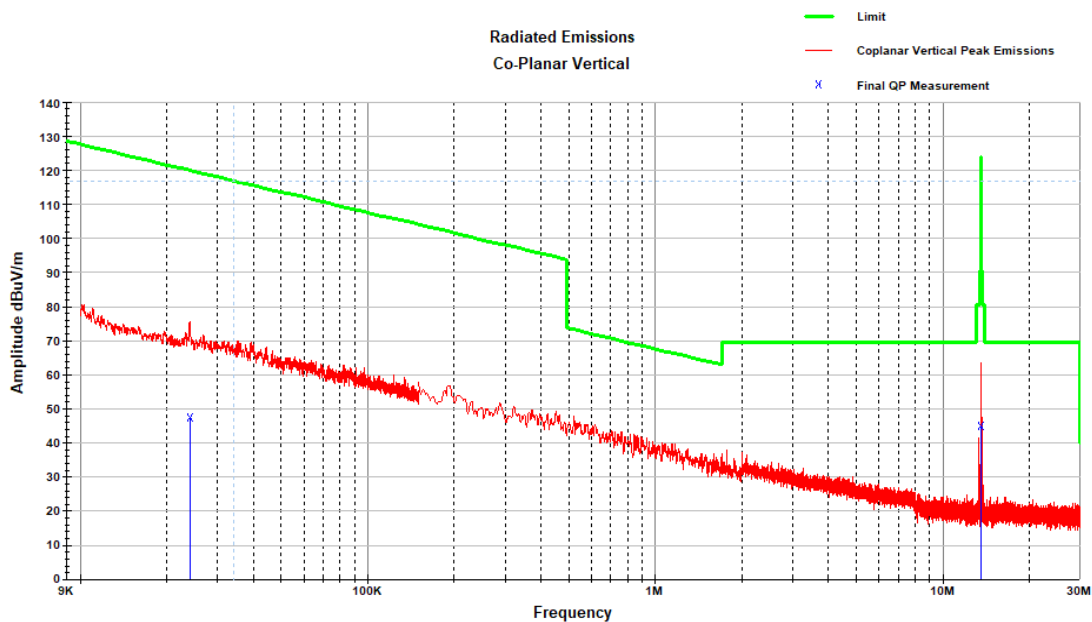
"RSE 30-1000 MHz T7 200710" TILE! profile dated 10 July 2020

5.5 Test Data

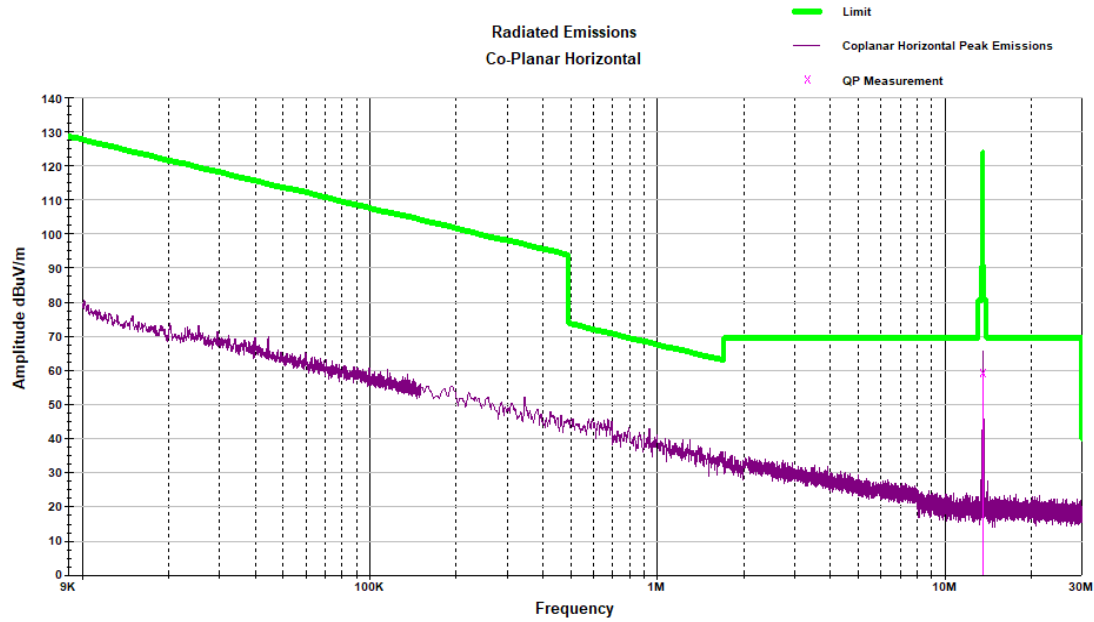
Worst-Case Co-Axial Radiated Emissions Data (9kHz-30MHz) – 3 meters



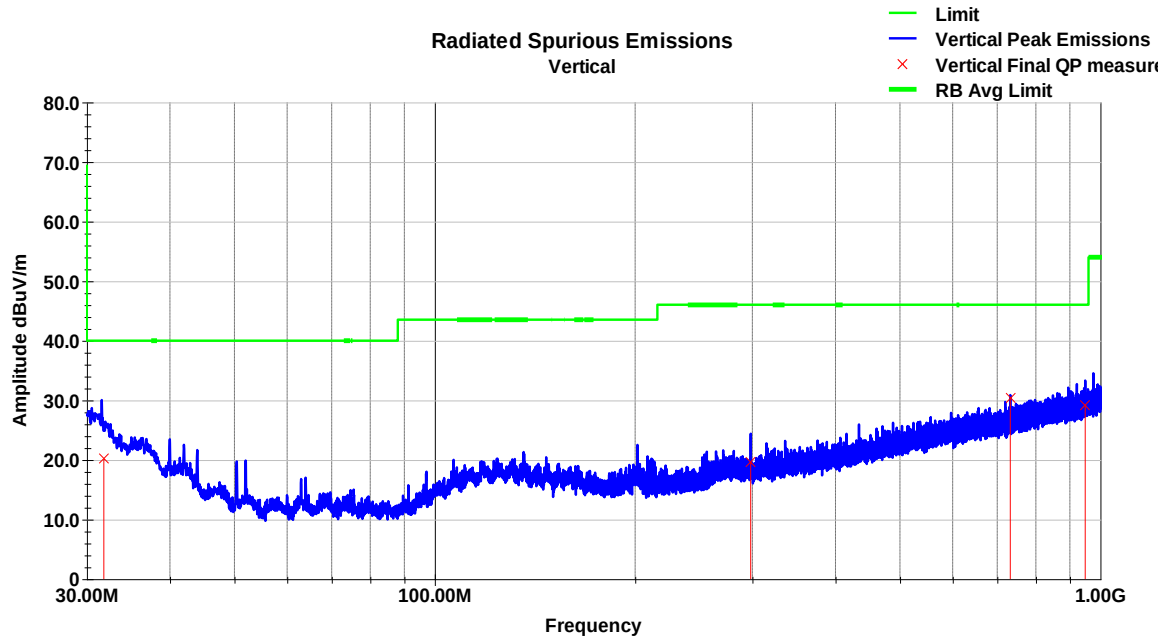
Worst-Case Co-Planar Vertical Radiated Emissions Data (9kHz-30MHz) – 3 meters



Worst-Case Co-Planar Horizontal Radiated Emissions Data (9kHz-30MHz) – 3 meters



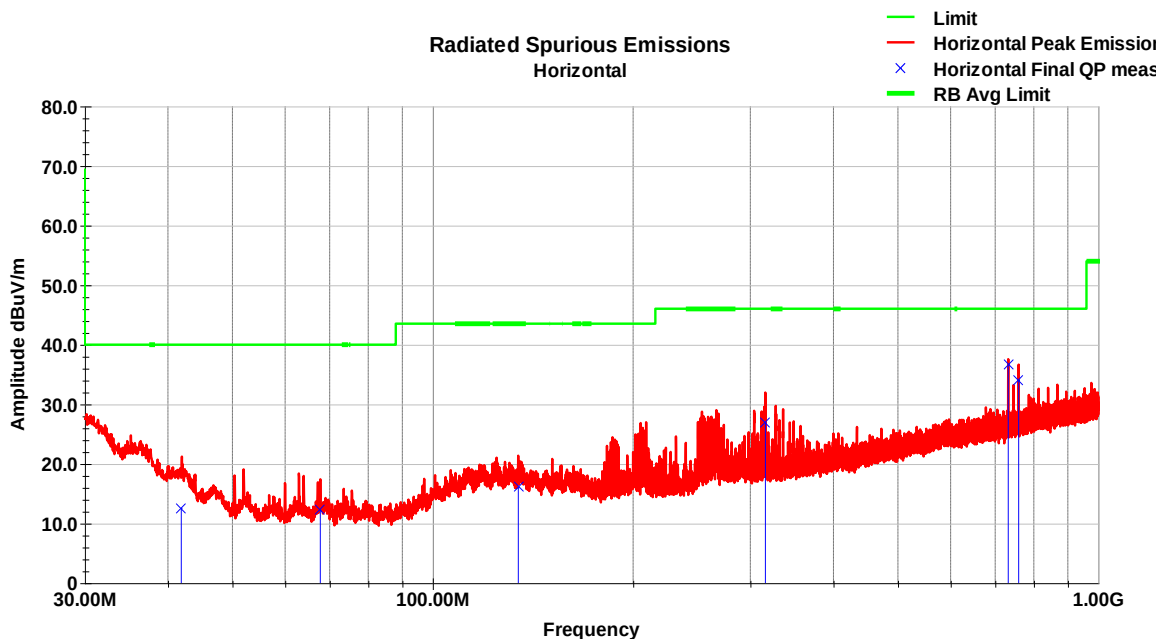
Worst-Case Vertical Radiated Emissions Plot (30-1000MHz)



Vertical Radiated Emissions Data (30-1000MHz)

Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
31.82	30.0	V	315.0	204.0	20.9	0.6	31.3	20.2	40.0	-19.8
298.33	34.4	V	302.0	213.0	14.2	1.9	30.9	19.6	46.0	-26.5
732.23	36.5	V	60.0	232.0	21.2	3.0	30.2	30.5	46.0	-15.5
949.13	32.3	V	317.0	231.0	23.5	3.4	30.0	29.2	46.0	-16.9
QP Value = Level + AF + CL - Amp										
Margin = QP Value - Limit										

Worst-Case Horizontal Radiated Emissions Plot (30-1000MHz)



Horizontal Radiated Emissions Data (30-1000MHz)

Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
41.89	30.1	H	294.0	128.0	13.2	0.7	31.3	12.6	40.0	-27.4
67.77	34.6	H	206.0	384.0	8.1	0.9	31.3	12.3	40.0	-27.7
134.45	32.4	H	125.0	216.0	13.6	1.3	31.1	16.1	43.5	-27.4
316.08	41.2	H	154.0	100.0	14.6	2.0	30.9	26.9	46.0	-19.1
732.20	42.8	H	342.0	100.0	21.2	3.0	30.2	36.7	46.0	-9.3
759.35	39.7	H	353.0	100.0	21.5	3.0	30.2	34.1	46.0	-11.9
QP Value = Level + AF + CL - Amp										
Margin = QP Value - Limit										

6 Frequency Stability

6.1 Test Result

Test Description	Basic Standards	Test Result
Frequency Stability	FCC 15.225(e) RSS-210 B.6(b) ANSI C63.10	Compliant

6.2 Test Method

The EUT was placed inside the Environmental Chamber and allowed to stabilize to each set temperature for a minimum of thirty minutes before any measurements were made. The EUT fundamental transmission was coupled to the spectrum analyzer using a near field probe.

6.3 Test Site

SGS EMC Laboratory, Suwanee, GA

6.4 Test Equipment

Test End Date: 7-Aug-2021

Tester: JOP

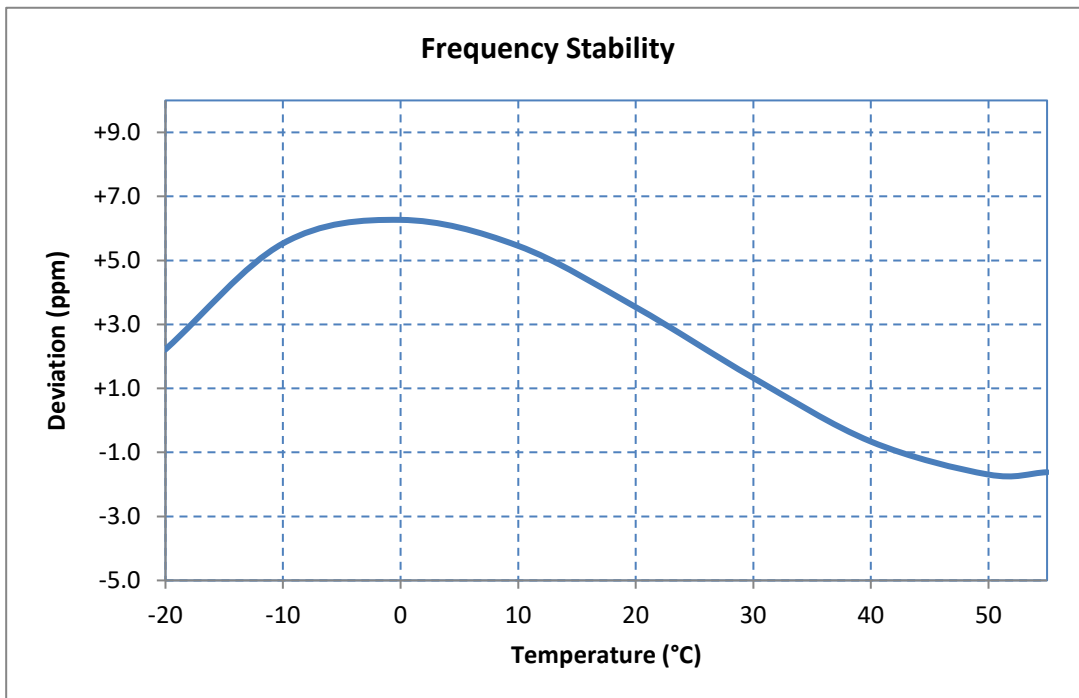
Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
TRUE RMS MULTIMETER	87V	Fluke	21011	17-Feb-2021	17-Feb-2022
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	27-Dec-2019	27-Dec-2021
ENVIRONMENTAL CHAMBER	S 1.20	Thermotron	SAF-ENV-08	23-Nov-2020	23-Nov-2021

6.5 Test Data

The carrier frequency shall not depart from the reference frequency by more than ± 100 ppm.

RFID 13.56 MHz

Voltage %	Power Vac	Temp °C	Frequency Hz	Freq Dev Hz	Freq Dev ppm	Deviation %
100%	120.00	+20 (Ref)	13,560,048	+48	+3.54	+0.000354
100%	120.00	-20	13,560,030	+30	+2.21	+0.000221
100%	120.00	-10	13,560,075	+75	+5.53	+0.000553
100%	120.00	0	13,560,085	+85	+6.27	+0.000627
100%	120.00	+10	13,560,074	+74	+5.46	+0.000546
100%	120.00	+20	13,560,048	+48	+3.54	+0.000354
100%	120.00	+30	13,560,018	+18	+1.33	+0.000133
100%	120.00	+40	13,559,991	-9	-0.66	-0.000066
100%	120.00	+50	13,559,977	-23	-1.70	-0.000170
100%	120.00	+55	13,559,978	-22	-1.62	-0.000162
115%	138.00	+20	13,560,047	+47	+3.47	+0.000347
85%	102.00	+20	13,560,046	+46	+3.39	+0.000339



7 Conducted Emissions

7.1 Test Result

Test Description	Classification	Basic Standard	Test Result
Conducted Emissions	B	ANSI C63.4	Compliant

7.2 Test Method

With the receiver's Resolution Bandwidth (RBW) set to 9 kHz, exploratory scans were performed over the measuring frequency range (0.15MHz to 30MHz) using a max hold mode incorporating a Peak detector and using the TILE! software. The final test data was measured using a 9kHz RBW in conjunction with a Quasi-Peak detector and Average detector and compared against the limits indicated in the table below.

Frequency Range	Class A Limits (dBμV)	Class B Limits (dBμV)
0.15 to 0.5 MHz	Quasi-Peak 79 / Average 66	Quasi-Peak 66 to 56 / Average 56 to 46
0.5 to 5 MHz	Quasi-Peak 73 / Average 60	Quasi-Peak 56 / Average 46
5 to 30 MHz	Quasi-Peak 73 / Average 60	Quasi-Peak 60 / Average 50

7.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 22.7 °C

Relative Humidity: 54.9 %

Atmospheric Pressure: 97.5 kPa

7.4 Test Equipment

Test End Date: 8-Jun-2021

Tester: LM

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
LINE IMPEDANCE STABILIZATION NETWORK	NNB 51	TESEQ	B087573	5-Apr-2021	5-Apr-2022
CONDUCTED COMB GENERATOR	CGC-255	Com-Power Corporation	B079696	CNR	CNR
RF CABLE	UC-N-MM-78	MAURY MICROWAVE	17017	3-Sep-2020	3-Sep-2021
EMI TEST RECEIVER	ESU8	ROHDE & SCHWARZ	B085759	7-May-2020	30-Jun-2021

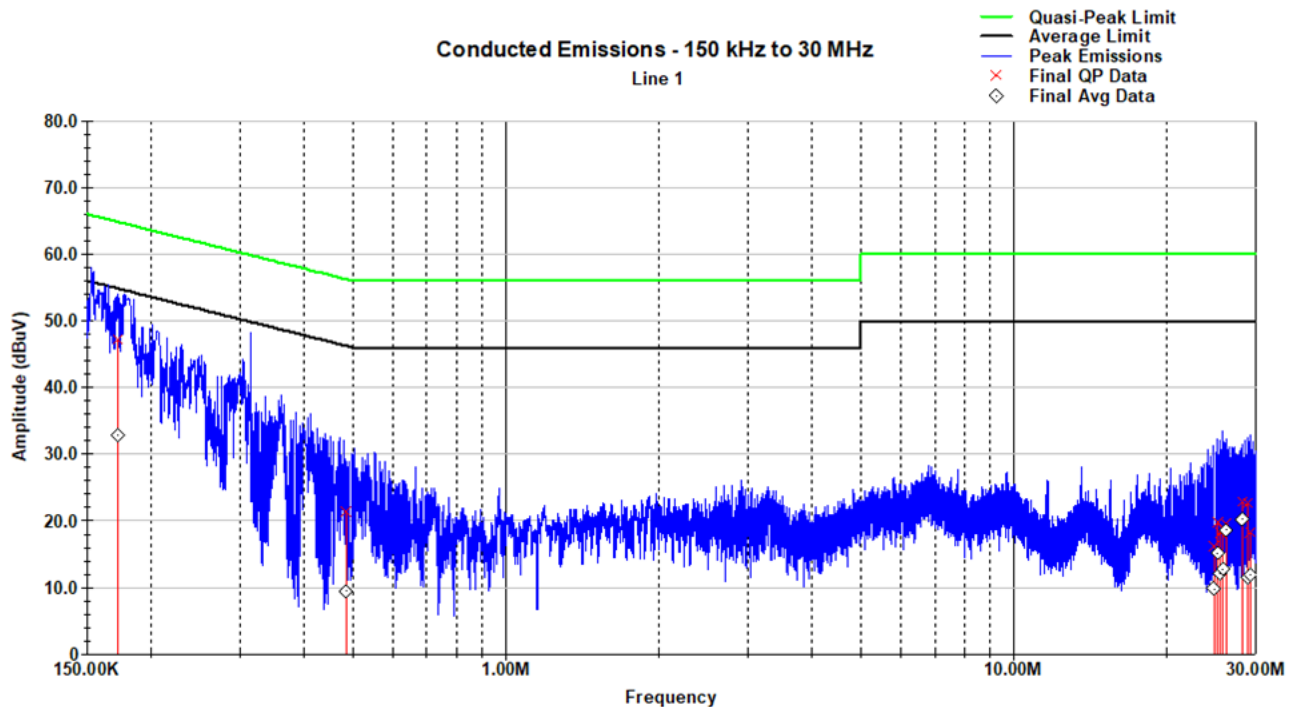
Note: Refer to the table for calibration intervals.

Software:

TILE! software profile "Conducted Emissions T7 210216" dated 16 February 2021

7.5 Test Data

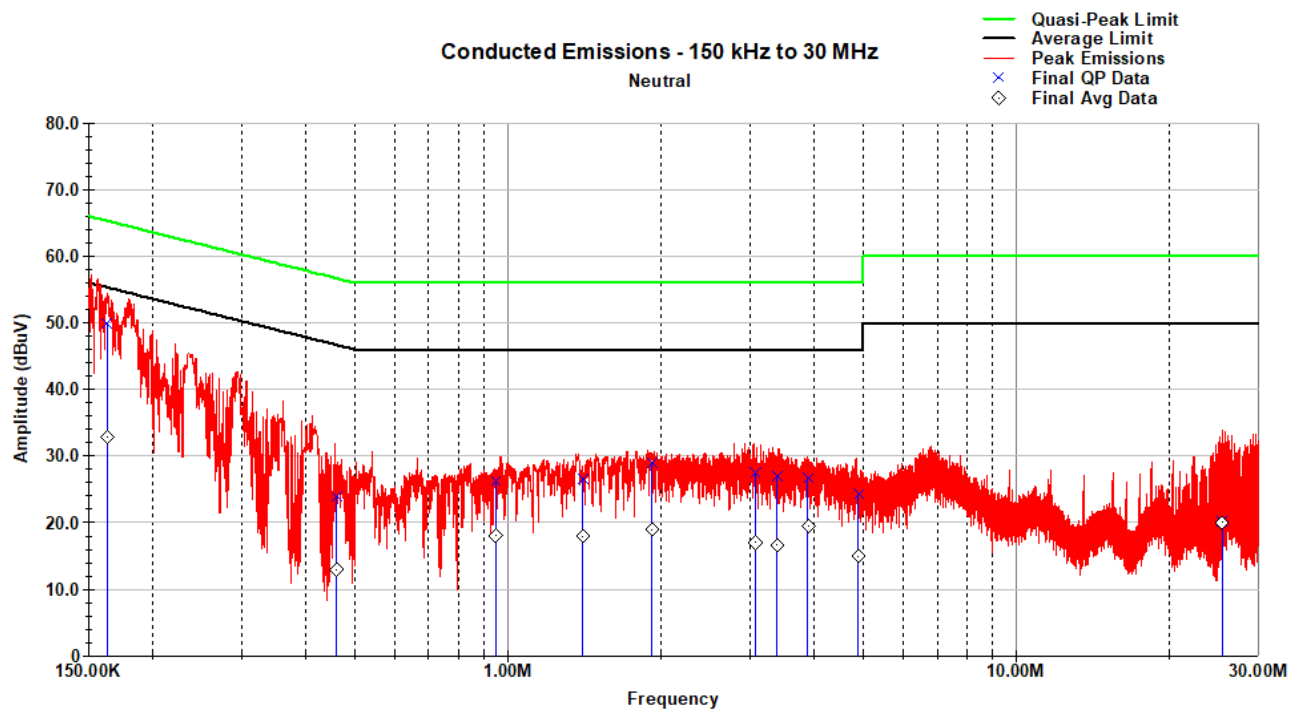
120V/60Hz, Line 1 Conducted Emissions – Peak Plot



120V/60Hz, Line 1 Conducted Emissions – Tabular Data

Frequency	QP Value	QP Limit	QP Margin	Avg Value	Avg Limit	Avg Margin
MHz	dBuV	dBuV	dB	dBuV	dBuV	dB
0.172	47.2	64.8	-17.7	32.8	54.8	-22.1
0.486	21.4	56.3	-34.9	9.4	46.3	-36.8
24.816	16.1	60	-43.9	9.8	50	-40.2
25.187	19.8	60	-40.2	15.2	50	-34.8
25.485	18.1	60	-41.9	12.1	50	-37.9
25.802	18.9	60	-41.1	12.7	50	-37.3
26.199	19.7	60	-40.3	18.7	50	-31.3
28.273	22.8	60	-37.2	20.3	50	-29.7
28.952	22.7	60	-37.3	11.5	50	-38.5
29.34	18.1	60	-41.9	11.9	50	-38.1

120V/60Hz, Neutral Conducted Emissions – Peak Plot



120v/60Hz, Neutral Conducted Emissions – Tabular Data

Frequency	QP Value	QP Limit	QP Margin	Avg Value	Avg Limit	Avg Margin
MHz	dBuV	dBuV	dB	dBuV	dBuV	dB
0.164	49.9	65.3	-15.4	32.9	55.3	-22.4
0.462	23.9	56.7	-32.7	13	46.7	-33.7
0.951	26.3	56	-29.7	18.1	46	-27.9
1.407	26.6	56	-29.4	17.9	46	-28.1
1.927	29	56	-27	19	46	-27
3.081	27.5	56	-28.5	17.1	46	-28.9
3.389	27	56	-29	16.7	46	-29.3
3.9	26.7	56	-29.3	19.5	46	-26.5
4.899	24.2	56	-31.8	15	46	-31
25.455	20.2	60	-39.8	20	50	-30

8 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	Conduction emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
5	RF conducted power	$\pm 0.75\text{dB}$
6	RF power density	$\pm 2.84\text{dB}$
7	Conducted Spurious emissions	$\pm 0.75\text{dB}$
8	RF Radiated power	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
9	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
10	Temperature test	$\pm 1^{\circ}\text{C}$
11	Humidity test	$\pm 3\%$
12	Supply voltages	$\pm 1.5\%$
13	Time	$\pm 3\%$

9 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	03 November 2021
1	- Changed EUT name from eSpringPro to eSpring - Updated model number information in section 2.3 - Removed test setup photos since those will be placed in a separate exhibit	13 November 2023
2	Corrected calibration dates in section 5.4	07 December 2023