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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 ²

(1) The RFID antenna is an internal patch antenna.

(2) With modifications for compliance, refer to section 1.1.

1.1 Modifications Required to Compliance

- Added 2 ferrites, one on each side of the differential transformer. Fair-Rite® 2643800502.

2 General Information

2.1 Client Information

Name: Siemens Industry Inc.
Address: 3617 Parkway Lane
City, State, Zip, Country: Norcross, GA 30092, 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

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

CAB Identifier: US0186

2.3 General Information of EUT

Type of Product: Wireless Vehicle Charging Transfer Switch
(HMN) Model Number: GEN3 EVSE
Serial Number: 07, Not provided on 2nd sample.
PMN (Marketing Name): Versicharge Gen 3
(Hardware Version) HVIN: 8EM1310-xxxxx-xxxx
(Firmware Version) FVIN: 2.113
RFID Frequency Range: 13.56 MHz
Data Modes: RFID
Antenna(s): Patch Antenna (Molex 1462360021)

Rated Voltage: 220 Vac 60Hz, Split-Phase

Sample Received Date: 28 September 2020, 03 October 2022

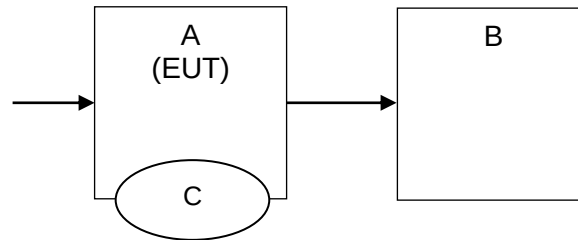
Dates of testing: 11 December -11 March 2021, 03 October 2022

2.4 Operating Modes and Conditions

Manufacturer supplied a test sample that continuously transmitted at 13.56MHz when powered. An RFID card was placed against the EUT to modulate the RFID signal.

Note: Only certain models offer RFID.

2.5 EUT Connection Block Diagram – Radiated Measurements



2.6 System Configurations

Device reference	Manufacturer	Description	Model Number	Serial Number
A	Siemens Industry Inc.	Wireless Transfer Switch	GEN3 EVSE	NSN
B	Siemens Industry Inc.	Vehicle Simulator	EVSE UL	07, Not Provided (2 nd sample)
C	Siemens Industry Inc.	RFID Card	-	-

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

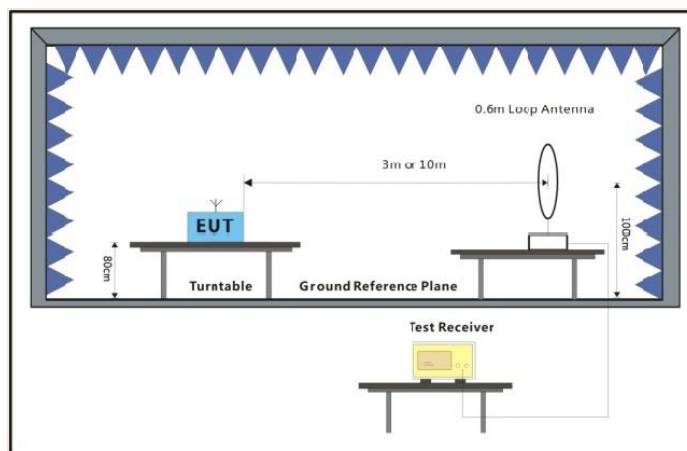
SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 22.4 °C

Relative Humidity: 19.7 %

Atmospheric Pressure: 7.8 kPa



Below 30MHz

3.4 Test Equipment

Test End Date: 26-Jan-2021

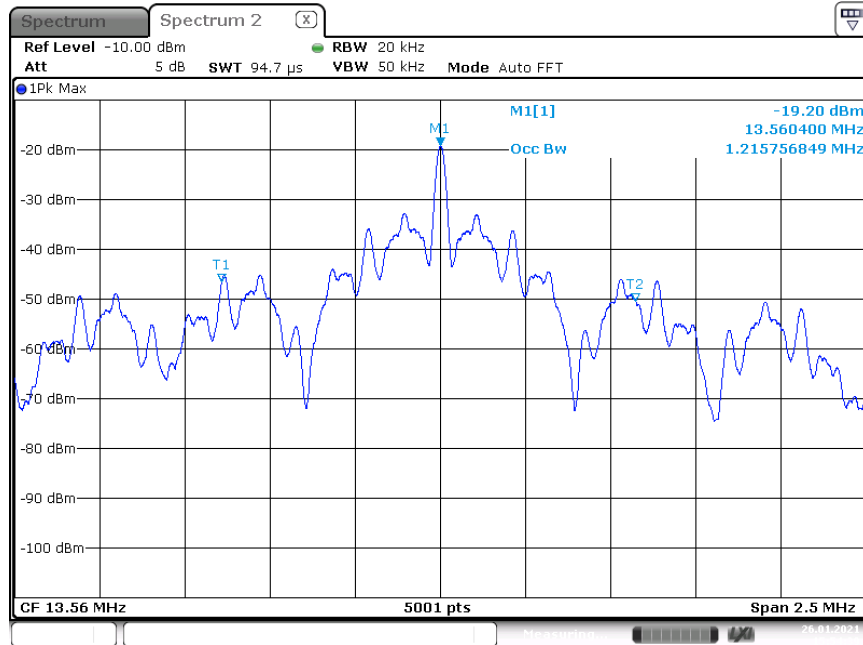
Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	27-Dec-2019	27-Dec-2021

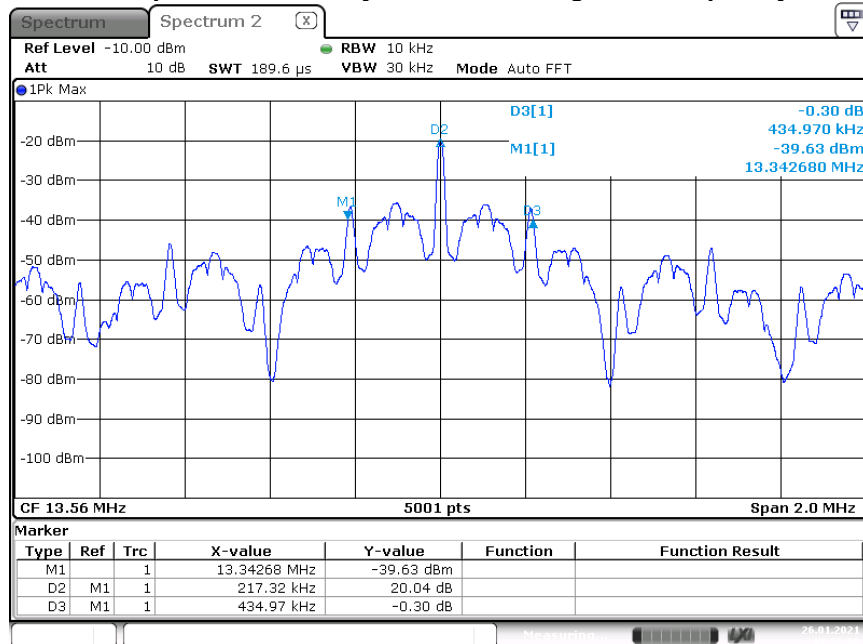
Note: Refer to equipment table for calibration intervals.

3.5 Test Data

99% Occupied Bandwidth = 1.216MHz



20dB Bandwidth = 434.97kHz (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

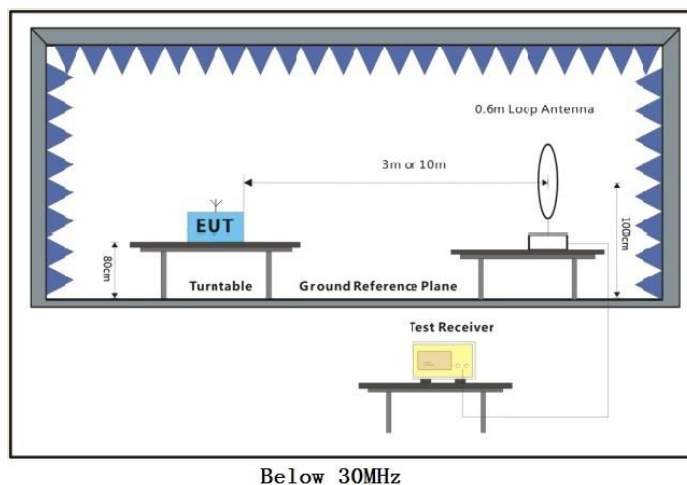
$20 \cdot \log(15,848) = 84 \text{ dB}\mu\text{V/m}$

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

4.3 Test Site

10m Absorber Lined Shielded Enclosure (ALSE), Suwanee, GA

Temperature: 22.3 °C
Relative Humidity: 35.6 %
Atmospheric Pressure: 98.1 kPa



4.4 Test Equipment

Test Date: 16-Nov-2020

Tester: BEO

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
RF Cable Nm to Nm, 0.01-18GHz	90-195-276	TELEDYNE STORM MICROWAVE	20114	2-Mar-2020	2-Mar-2021
RF Cable Nm to Nm, 0.01-18GHz	90-195-118	TELEDYNE STORM MICROWAVE	20126	2-Mar-2020	2-Mar-2021
RF CABLE	SF106	HUBER & SUHNER	B079713	3-Sep-2020	3-Sep-2021
ANTENNA, LOOP, ACTIVE	6502	ETS Lindgren	B085752	20-Aug-2020	20-Aug-2022
EMI TEST RECEIVER	ESU8	ROHDE & SCHWARZ	B085759	7-May-2020	7-May-2021

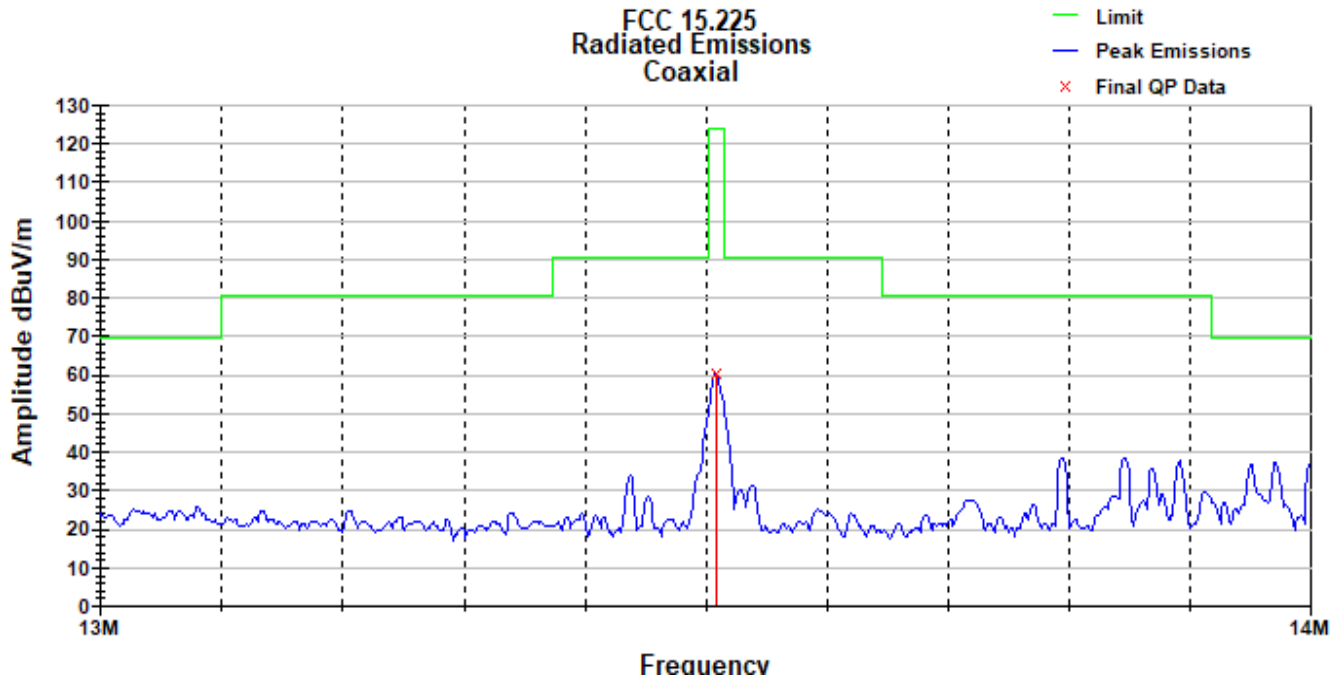
Refer to equipment table for calibration intervals.

Software:

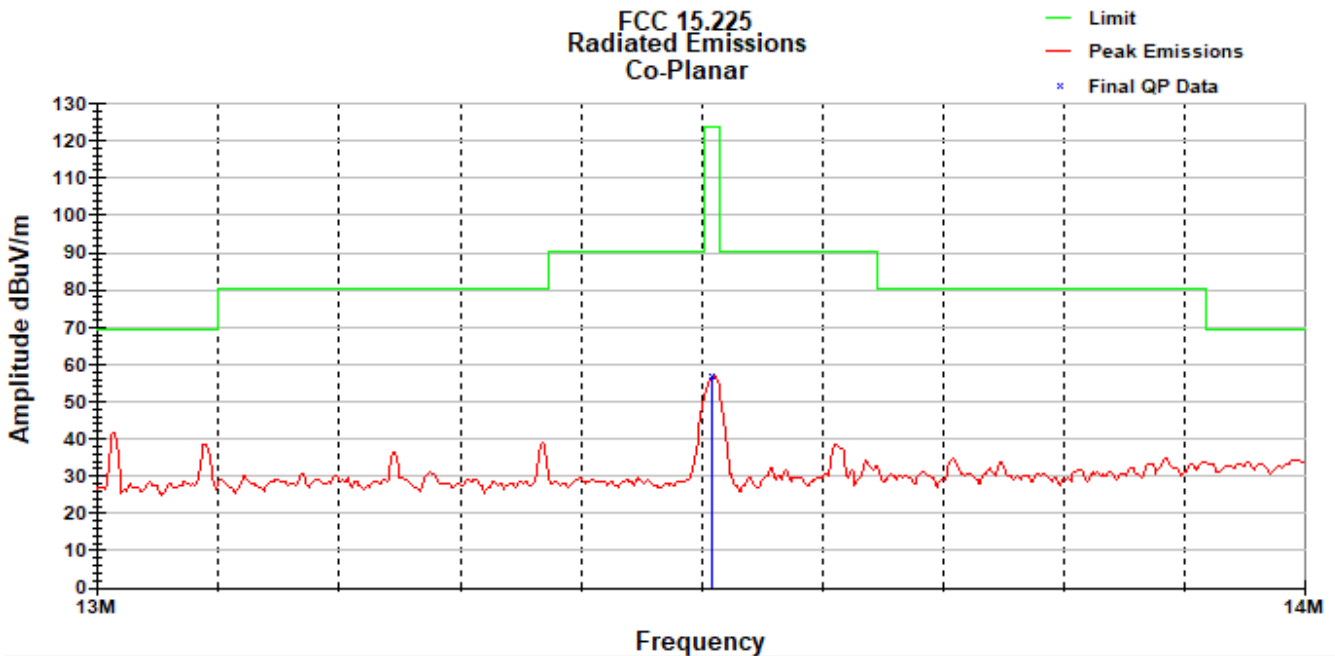
“RSE 9k - 30M Red Loop 200915” TILE! profile dated 01 January 2020

4.5 Test Data

Co-Axial Peak Plot



Co-Planar Peak Plot



Tabular Data - Fundamental

Frequency MHz	Raw QP (dBuV)	Azimuth (degrees)	Height (cm)	AF (dB)	CL (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna (CA/CP)
13.56	49.5	15.0	100.0	10.7	0.3	60.5	124.0	-63.5	CA
13.56	45.8	88.0	100.0	10.7	0.3	56.8	124.0	-67.2	CP
QP Value = Level + AF + CL - Amp									
Margin = QP Value - Limit									

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

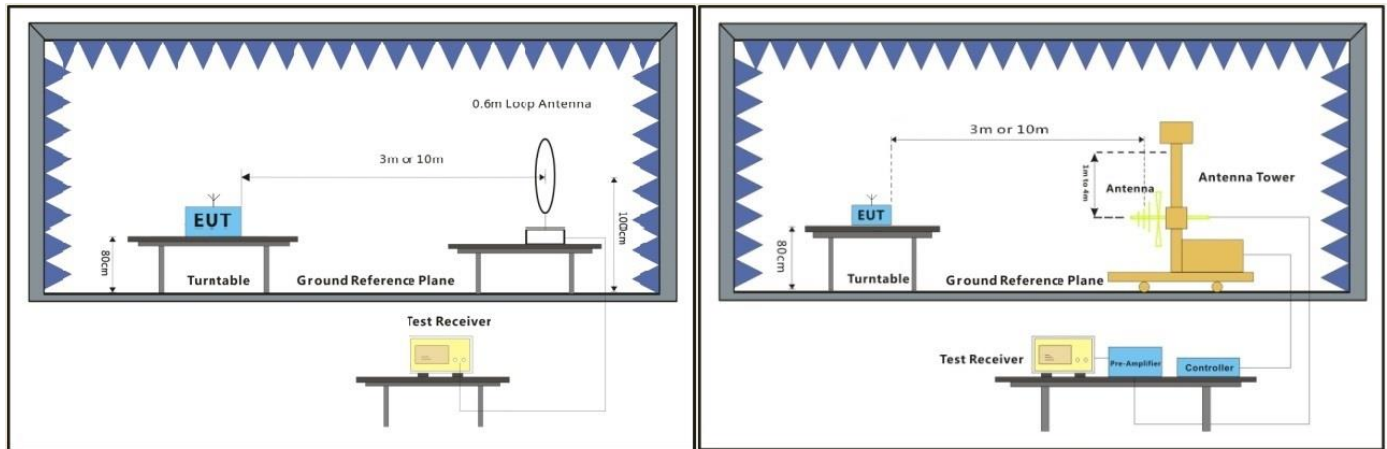
$$20 \cdot \log(30) = 29.5 \text{ dB}\mu\text{V/m}$$

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

5.3 Test Site

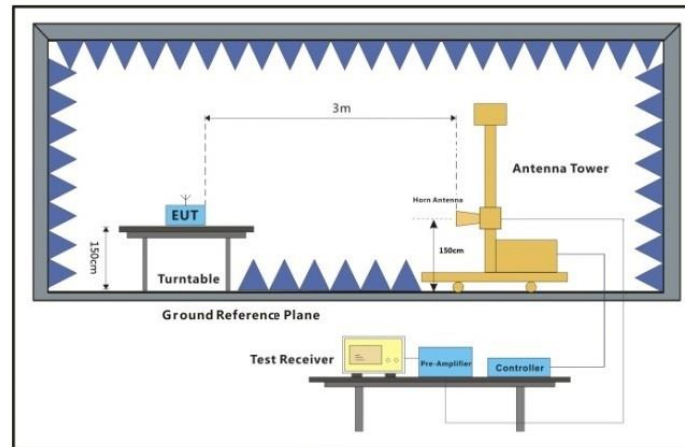
10m Absorber Lined Shielded Enclosure (ALSE), Suwanee, GA

Temperature: 22.3 °C
Relative Humidity: 35.6 %
Atmospheric Pressure: 98.1 kPa



Below 30MHz

30MHz-1GHz



Above 1GHz

5.4 Test Equipment

Test End Date: 11-Mar-2021

Tester: BEO

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
RF Cable Nm to Nm, 0.01-18GHz	90-195-276	TELEDYNE STORM MICROWAVE	20114	-	-
RF Cable Nm to Nm, 0.01-18GHz	90-195-354	TELEDYNE STORM MICROWAVE	20119	18-Feb-2021	18-Feb-2022
RF Cable Nm to Nm, 0.01-18GHz	90-195-118	TELEDYNE STORM MICROWAVE	20125	17-Feb-2021	17-Feb-2022
RF Cable Nm to Nm, 0.01-18GHz	90-195-118	TELEDYNE STORM MICROWAVE	20126	18-Feb-2021	18-Feb-2022
ANTENNA, BILOG	JB6	SUNOL	B079690	13-Jan-2021	13-Jan-2023
RF CABLE	SF106	HUBER & SUHNER	B079713	3-Sep-2020	3-Sep-2021
RF CABLE	104PE	HUBER & SUHNER	B079793	3-Sep-2020	3-Sep-2021
LOW NOISE AMPLIFIER	ZKL-2+	Mini-Circuits	B079817	28-Sep-2020	28-Sep-2021
ANTENNA, LOOP, ACTIVE	6502	ETS Lindgren	B085752	20-Aug-2020	20-Aug-2022
EMI TEST RECEIVER	ESU8	ROHDE & SCHWARZ	B085759	7-May-2020	7-May-2021
RF CABLE	SF106	Huber & Suhner	B085903	28-Sep-2020	28-Sep-2021

Note: Refer to equipment table for calibration intervals.

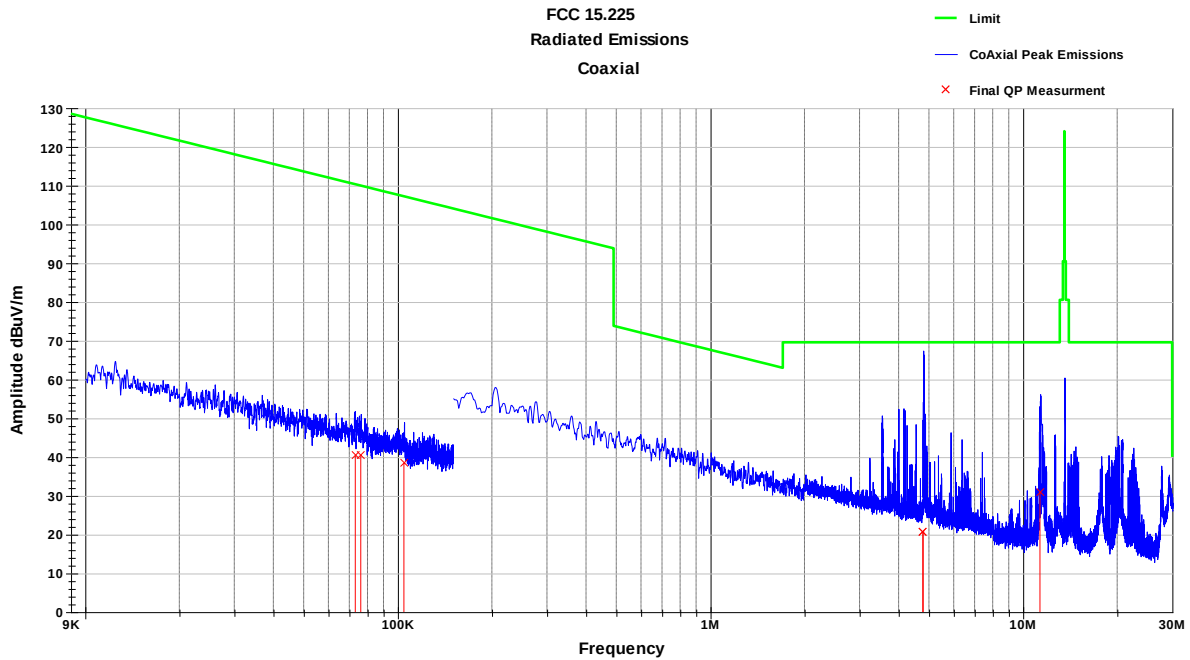
Software:

“RSE 9k - 30M Passive Red Loop 200915” TILE! profile dated 15 September 2021

“RE 30-1000 MHz TILE7 200728” TILE! profile dated 28 July 2020

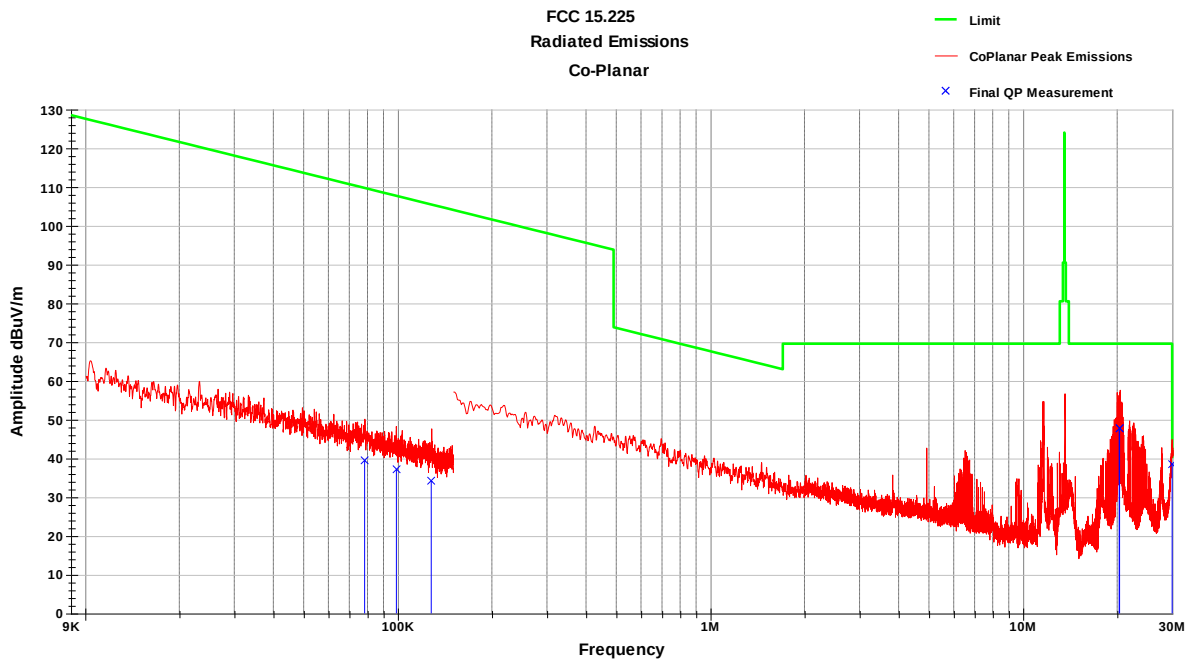
5.5 Test Data

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



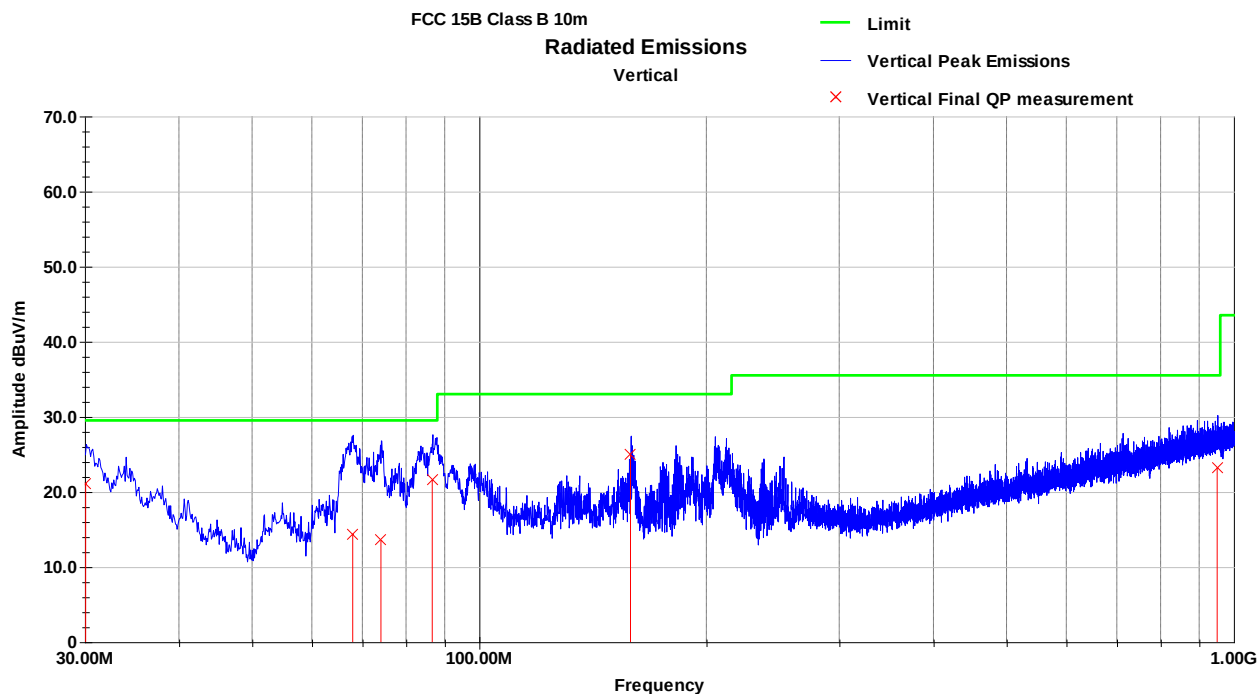
Note: Emissions outside of the 13.56MHz fundamental are transients not associated with the RFID radio.

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



Note: Emissions outside of the 13.56MHz fundamental are transients not associated with the RFID radio.

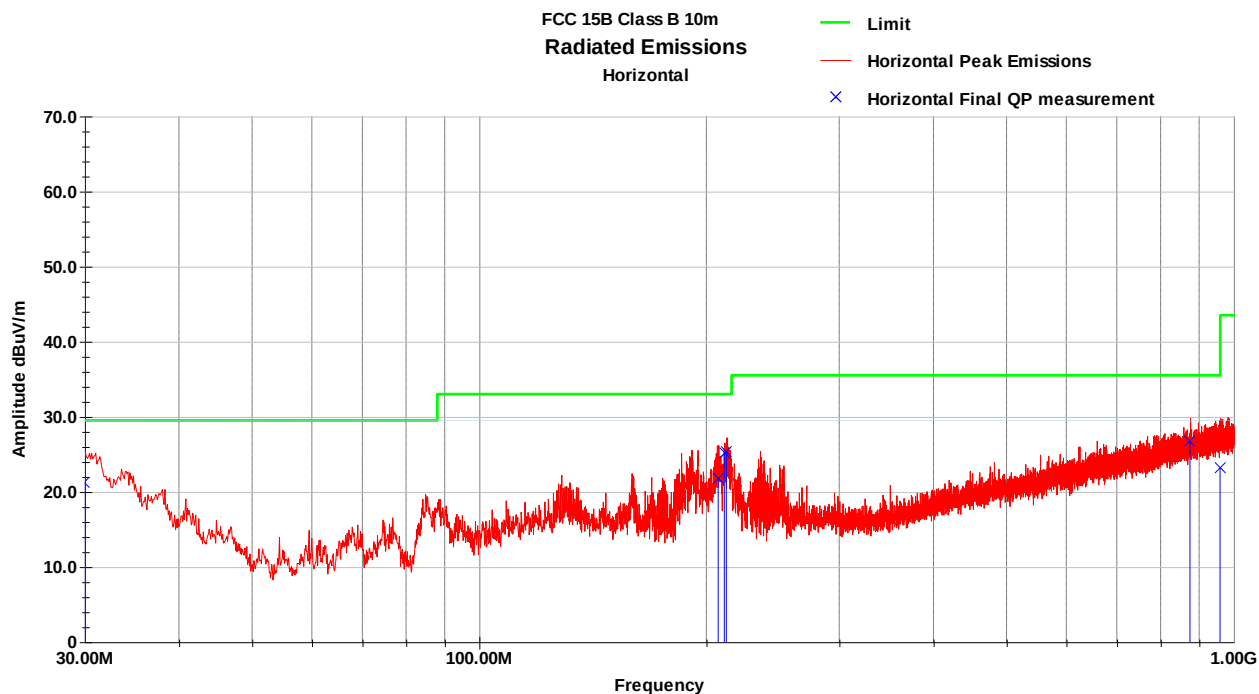
Vertical Radiated Emissions Plot (30-1000MHz)



Vertical Tabulated 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)
30.09	31.0	V	59.0	341.0	21.1	0.8	31.8	21.2	29.5	-8.3
67.97	37.0	V	135.0	301.0	7.9	1.3	31.8	14.4	29.5	-15.1
74.09	36.1	V	135.0	230.0	7.9	1.4	31.8	13.6	29.5	-15.9
86.65	44.4	V	19.0	100.0	7.5	1.5	31.7	21.6	29.5	-7.9
158.69	42.1	V	90.0	111.0	12.4	2.0	31.6	24.9	33.0	-8.1
950.85	25.8	V	328.0	259.0	22.7	5.0	30.3	23.2	35.5	-12.3
QP Value = Level + AF + CL - Amp										
Margin = QP Value - Limit										

Horizontal Radiated Emissions Plot (30-1000MHz)



Horizontal Tabulated 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)
30.00	31.0	H	135.0	399.0	21.1	0.8	31.8	21.2	29.5	-8.3
207.36	40.6	H	180.0	400.0	10.5	2.3	31.5	21.9	33.0	-11.1
211.31	44.0	H	0.0	335.0	10.3	2.3	31.5	25.2	33.0	-7.8
212.61	44.1	H	0.0	380.0	10.4	2.3	31.5	25.4	33.0	-7.6
875.07	30.4	H	69.0	231.0	22.0	4.8	30.5	26.8	35.5	-8.7
959.23	25.8	H	33.0	314.0	22.7	5.1	30.3	23.2	35.5	-12.3
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: 10-Dec-2020

Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
EMI TEST RECEIVER	ESU8	ROHDE & SCHWARZ	B085759	7-May-2020	7-May-2021
ENVIRONMENTAL CHAMBER	SM-45-8200	Thermotron	HAZ-ETC-01	30-Sep-2020	30-Sep-2021

Refer to equipment table for calibration intervals.

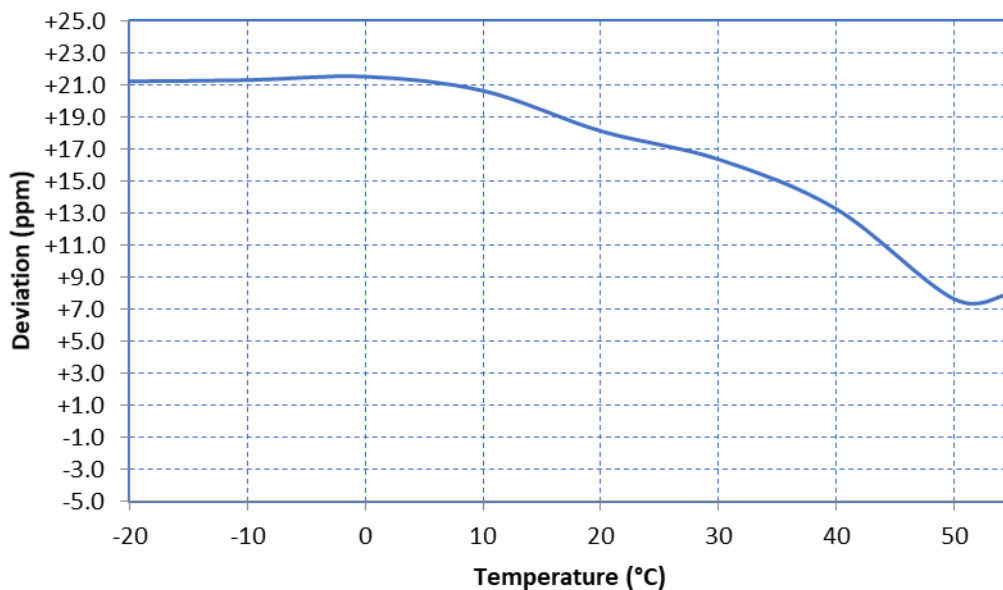
6.5 Test Data

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	Freq Dev ppm	Deviation %
100%	220.00	+20 (Ref)	13,560,246	+246	+18.14	+0.001814
100%	220.00	-20	13,560,288	+288	+21.24	+0.002124
100%	220.00	-10	13,560,289	+289	+21.31	+0.002131
100%	220.00	0	13,560,292	+292	+21.53	+0.002153
100%	220.00	+10	13,560,280	+280	+20.65	+0.002065
100%	220.00	+20	13,560,246	+246	+18.14	+0.001814
100%	220.00	+30	13,560,222	+222	+16.37	+0.001637
100%	220.00	+40	13,560,180	+180	+13.27	+0.001327
100%	220.00	+50	13,560,104	+104	+7.67	+0.000767
100%	220.00	+55	13,560,109	+109	+8.04	+0.000804
115%	253.00	+20	13,560,224	+224	+16.52	+0.001652
85%	187.00	+20	13,560,204	+204	+15.04	+0.001504

Frequency Stability



7 Conducted Emissions

7.1 Test Result

Test Description	Basic Standards	Test Result
Conducted Emissions, Class B	RSS-GEN, Issue 4 ANSI C63.4:2014	Compliant ¹

Note: 1) Required modifications to be compliant, refer to Section 1.1.

7.2 Test Method

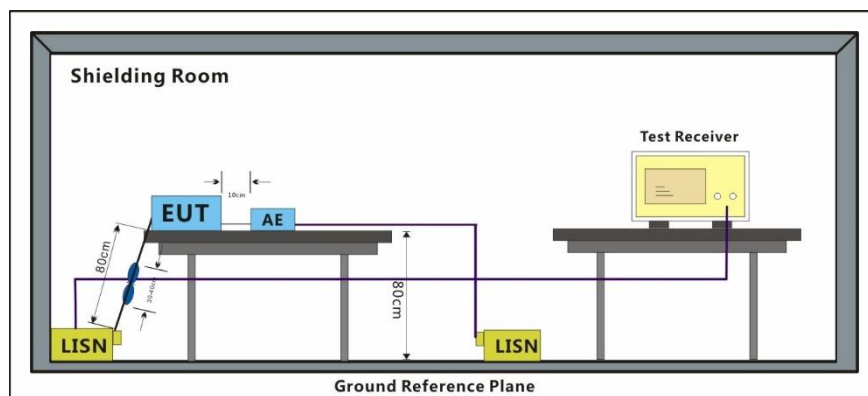
With the receiver's resolution bandwidth was set to 9 kHz the exploratory scans were performed over the measuring frequency range (0.15MHz to 30MHz) using a max hold mode incorporating a Peak detector and Average detector and using the TILE! software. The final test data was measured using a Quasi-Peak 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	Avg 66 QP 79	Avg 56 to 46 QP 66 to 56
0.5 to 5 MHz	Avg 60 QP 73	Avg 46 Pk 56
5 to 30 MHz	Avg 60 QP 73	Avg 50 Pk 60

7.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions	Jan 2021	Jan 2023
Temperature:	23.2°C	21.7°C
Relative Humidity:	28.5%	26.8%
		98.9 kPa



7.4 Test Equipment

Original

Test Date: 19-Jan-2021

Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
RF CABLE	UC-N-MM-78	MAURY MICROWAVE	17017	3-Sep-2020	3-Sep-2021
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	B079629	6-Apr-2020	6-Apr-2021
LINE IMPEDANCE STABILIZATION NETWORK	NNB 51	TESEQ	B085882	9-Apr-2020	9-Apr-2021

with Modifications

Test End Date: 11-Jan-2023

Tester: EW

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
RF CABLE	UC-N-MM-78	MAURY MICROWAVE	17017	25-Aug-2022	25-Aug-2023
LINE	NNB 51	TESEQ	B085882	15-Apr-2022	15-Apr-2023
3 PHASE LISN	NSLK 8163 RC	SCHWARZBECK MESS ELEKTRONIK	16015	30-Aug-2022	30-Aug-2023

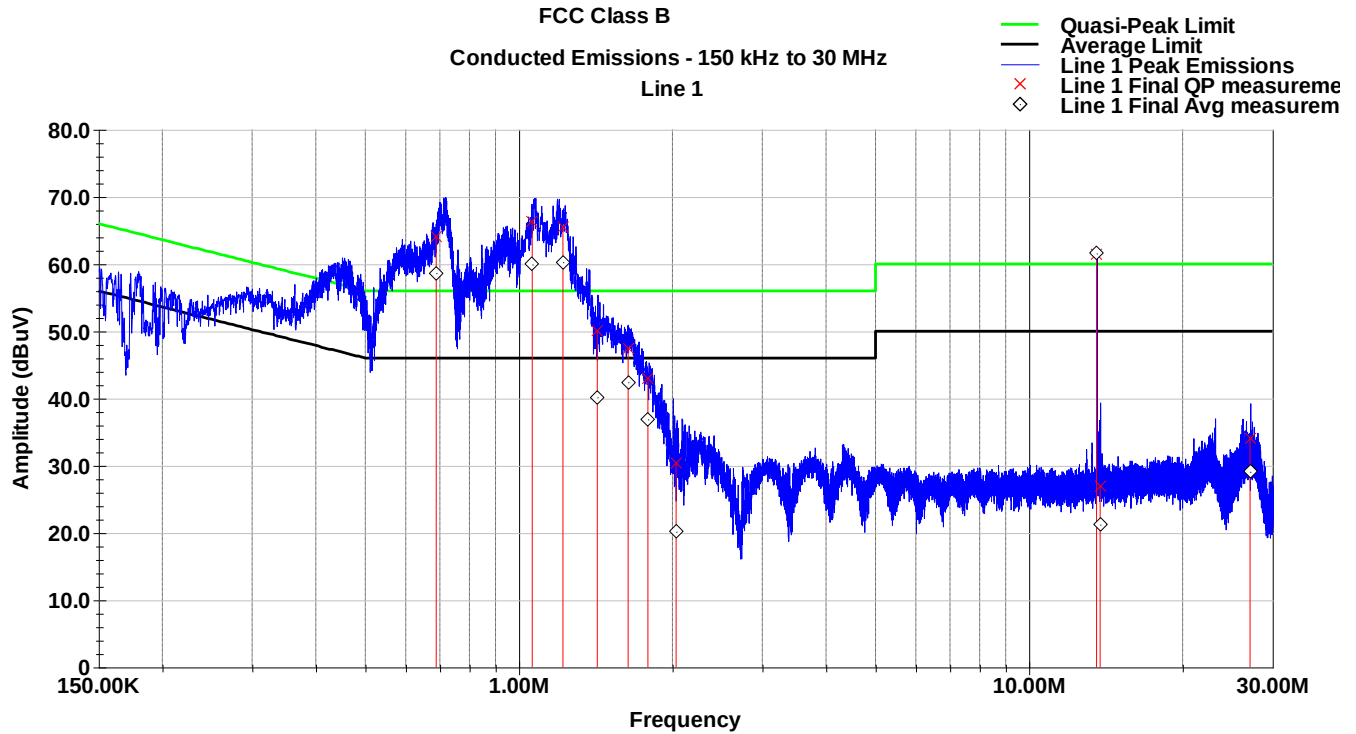
Note: Refer to equipment table for calibration intervals.

Software:

“Conducted Emissions Tile7 200618” TILE! profile dated 18 June 2020

7.5 Test Data - Original

Line 1 - Plot 150kHz-30MHz

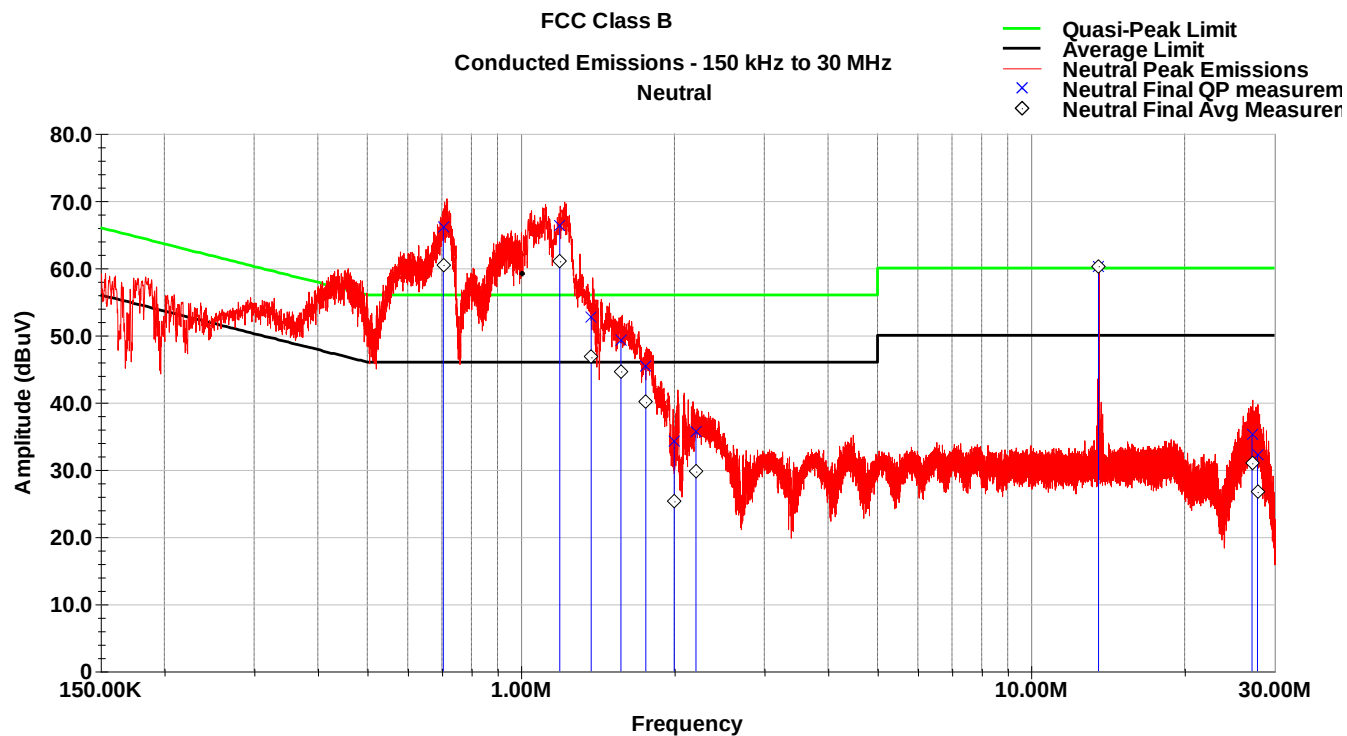


Line 1 - Tabulated Data 150kHz-30MHz

Frequency MHz	QP Value dBuV	QP Limit dBuV	QP Margin dB	Avg Value dBuV	Avg Limit dBuV	Avg Margin dB
0.689	64.1	56.0	8.1	58.7	46.0	12.7
1.062	66.3	56.0	10.3	59.9	46.0	13.9
1.220	65.5	56.0	9.5	60.3	46.0	14.3
1.425	50.0	56.0	-6.0	40.2	46.0	-5.8
1.637	47.5	56.0	-8.5	42.4	46.0	-3.6
1.790	43.0	56.0	-13.0	36.9	46.0	-9.1
2.033	30.4	56.0	-25.6	20.2	46.0	-25.8
13.560	61.4	60.0	1.4	61.6	50.0	11.6
13.780	26.9	60.0	-33.1	21.2	50.0	-28.8
27.119	34.1	60.0	-25.9	29.1	50.0	-20.9

Note: 13.56MHz is the intentional RFID signal and does not fall under these requirements

Line 2 - Plot 150kHz-30MHz



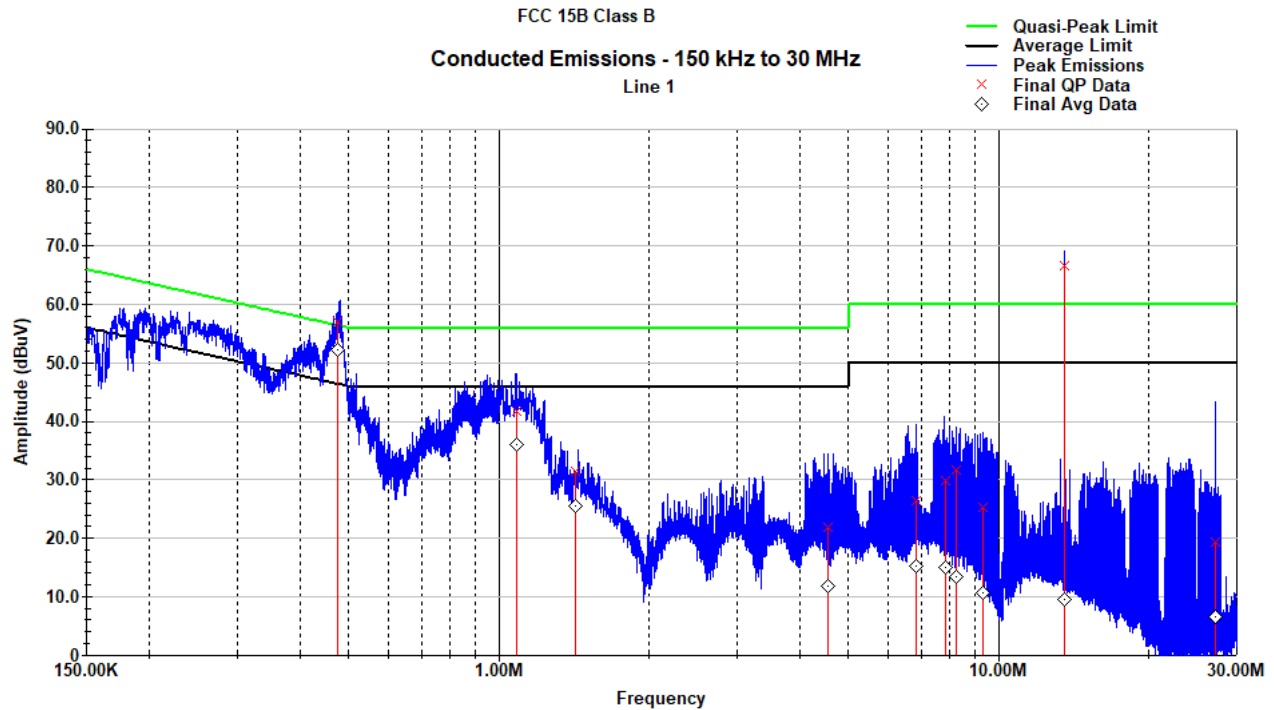
Line 2 - Tabulated Data 150kHz-30MHz

Frequency MHz	QP Value dBuV	QP Limit dBuV	QP Margin dB	Avg Value dBuV	Avg Limit dBuV	Avg Margin dB
0.705	66.0	56.0	10.0	60.5	46.0	14.5
1.192	66.4	56.0	10.4	61.0	46.0	15.0
1.374	52.7	56.0	-3.3	46.7	46.0	0.7
1.571	49.2	56.0	-6.8	44.6	46.0	-1.4
1.758	45.4	56.0	-10.6	40.1	46.0	-5.9
1.998	34.2	56.0	-21.8	25.3	46.0	-20.7
2.204	35.6	56.0	-20.4	29.7	46.0	-16.3
13.560	60.2	60.0	0.2	60.3	50.0	10.3
27.116	35.2	60.0	-24.8	31.0	50.0	-19.0
27.785	32.3	60.0	-27.7	26.7	50.0	-23.3

Note: 13.56MHz is the intentional RFID signal and does not fall under these requirements

7.6 Test Data – with Modifications

Line 1 - Plot 150kHz-30MHz



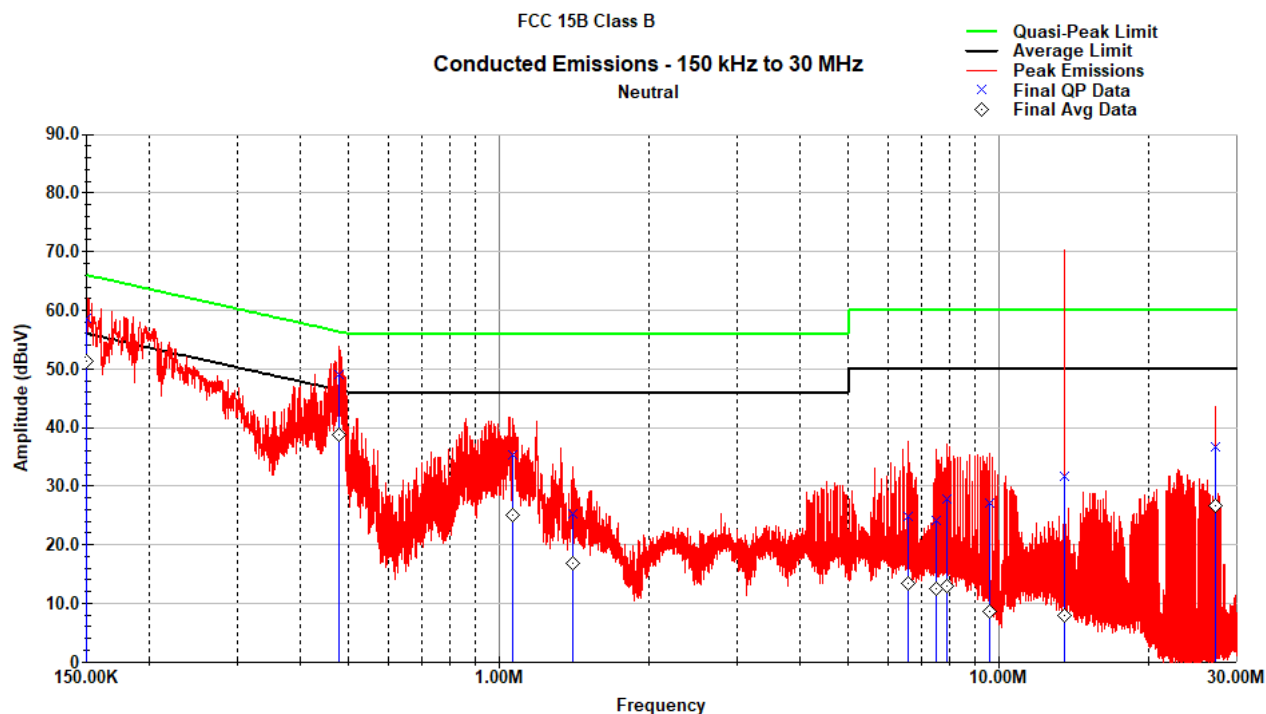
Line 1 - Tabulated Data 150kHz-30MHz

Frequency MHz	QP Value dBuV	QP Limit dBuV	QP Margin dB	Avg Value dBuV	Avg Limit dBuV	Avg Margin dB
0.476	57.0	56.4	0.7	52.3	46.4	5.9
1.087	41.6	56.0	-14.4	36.1	46.0	-9.9
1.426	31.4	56.0	-24.6	25.5	46.0	-20.5
4.554	21.8	56.0	-34.2	11.9	46.0	-34.1
6.825	26.4	60.0	-33.6	15.2	50.0	-34.8
7.824	29.9	60.0	-30.1	15.0	50.0	-35.0
8.225	31.6	60.0	-28.4	13.4	50.0	-36.6
9.290	25.4	60.0	-34.6	10.7	50.0	-39.3
13.559	66.6	60.0	6.6	9.5	50.0	-40.5
27.138	19.4	60.0	-40.6	6.6	50.0	-43.4

13.56MHz is the intentional RFID signal and does not fall under these requirements.

Note: EUT is designed to be used in commercial areas.

Line 2 - Plot 150kHz-30MHz



Line 2 - Tabulated Data 150kHz-30MHz

Frequency MHz	QP Value dBuV	QP Limit dBuV	QP Margin dB	Avg Value dBuV	Avg Limit dBuV	Avg Margin dB
0.150	58.7	66.0	-7.3	51.2	56.0	-4.8
0.480	49.0	56.3	-7.3	38.8	46.3	-7.5
1.063	35.4	56.0	-20.6	25.2	46.0	-20.8
1.408	25.4	56.0	-30.6	16.8	46.0	-29.2
6.603	24.8	60.0	-35.2	13.4	50.0	-36.6
7.495	24.1	60.0	-35.9	12.5	50.0	-37.5
7.865	27.9	60.0	-32.1	13.0	50.0	-37.0
9.611	27.2	60.0	-32.8	8.7	50.0	-41.3
13.579	31.7	60.0	-28.3	7.9	50.0	-42.1
27.120	36.7	60.0	-23.3	26.7	50.0	-23.3

13.56MHz is the intentional RFID signal and does not fall under these requirements.

Note: EUT is designed to be used in commercial areas.

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	06 October 2022
1	Updated FCC & IC identification number on Title & Gen Info pages.	03 March 2023