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CERTIFICATION TEST REPORT

Manufacturer: L-Tron Corporation
7911 Lehigh Crossing, Suite 6
Victor, New York 14564 USA

Applicant: Same as Above

Product Name: OSCR Sensor Tube

Product Description: The OSCR Sensor Tube is designed to be used exclusively with the OSCR360 Capture Kit. The Sensor Tube provides location and orientation to the system for each photo taken and communicates via Bluetooth Low Energy. The device features an external on/off switch, which is used to power the Sensor Tube on. Once on, a Bluetooth connection can be established between the Sensor Tube and Capture Kit. The Sensor Tube is powered by an internal, rechargeable lithium ion battery and is charged via a micro-USB cable. During operation, the Sensor Tube provides GPS location, data, compass heading, and tilt and roll information.

Operating Voltage/Frequency: Battery-Operated

Model: LTC-IOT-GPS-G2

FCC ID: 2AN79-LTC19001

Testing Commenced: July 25, 2019

Testing Ended: Aug. 23, 2019

Summary of Test Results: In Compliance

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications and/or manufacturer's statement. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.



Standards:

- ❖ FCC Part 15 Subpart C, Section 15.249
- ❖ FCC Part 15 Subpart C, Section 15.215(c) – Additional provisions to the general radiated emission limitations
- ❖ FCC15.207 - Conducted Limits
- ❖ FCC Part 15 Subpart A, Section 15.31(e) – Measurement Standards

Evaluation Conducted by:

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Report Reviewed by:

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1 ADMINISTRATIVE INFORMATION

1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

1.2 Measurement Procedure:

All measurements were performed according to the 2013 version of ANSI C63.10 and recommended FCC procedure of measurement of DXT operating under Section 15.249. A list of the measurement equipment can be found in Section 6.

1.3 Uncertainty Budget:

The uncertainty in EMC measurements arises from several factors which affect the results, some associated with environmental conditions in the measurement room, the test equipment being used, and the measurement techniques adopted.

The measurement uncertainty budgets detailed below are calculated from the test and calibration data and are expressed with a 95% confidence factor using a coverage factor of $k=2$. The Uncertainty for a laboratory are referred to as U_{lab} . For Radiated and Conducted Emissions, the Expanded Uncertainty is compared to the U_{cispr} values to determine if a specific margin is required to deem compliance.

U_{lab}

Measurement Range	Combined Uncertainty	Expanded Uncertainty
Radiated Emissions <1 GHz @ 3m	2.54	5.07dB
Radiated Emissions <1 GHz @ 10m	2.55	5.09dB
Radiated Emissions 1 GHz to 2.7 GHz	1.81	3.62dB
Radiated Emissions 2.7 GHz to 18 GHz	1.55	3.10dB
AC Power Line Conducted Emissions, 150kHz to 30 MHz	1.38	2.76dB
AC Power Line Conducted Emissions, 9kHz to 150kHz	1.66	3.32dB

U_{cispr}

Measurement Range	Expanded Uncertainty
Radiated Emissions <1 GHz @ 3m	5.2dB
Radiated Emissions <1 GHz @ 10m	5.2dB
Radiated Emissions 1 GHz to 2.7 GHz	Under Consideration
Radiated Emissions 2.7 GHz to 18 GHz	Under Consideration
AC Power Line Conducted Emissions, 150kHz to 30 MHz	3.6dB
AC Power Line Conducted Emissions, 9kHz to 150kHz	4.0dB

If U_{lab} is less than or equal to U_{cispr} , then:

- compliance is deemed to occur if no measured disturbance exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} in table 1, then:

- compliance is deemed to occur if no measured disturbance, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit.

Note: Only measurements listed in the tables above that relate to tests included in this Test Report are applicable.



Order Number: F2P21762A

Applicant: L-Tron Corporation

Model: LTC-IOT-GPS-G2

1.4 Document History:

Document Number	Description	Issue Date	Approved By
F2P21762A-01E	First Issue	Sept. 19, 2019	K. Littell

**2 SUMMARY OF TEST RESULTS**

Test Name	Standard(s)	Results
-20dB Occupied Bandwidth	CFR 47 Part 15.215(c)	Complies
Field Strength of Emissions	CFR 47 Part 15.249(a)(d)	Complies
Conducted Emissions	CFR 47 Part 15.207(a)	Complies
Variation of the Input Power	CFR 47 Part 15.231(e)	Complies

Modifications Made to the Equipment
None



3 TABLE OF MEASURED RESULTS

GFSK

Test	Low Channel 2402 MHz	Mid Channel 2440 MHz	High Channel 2480 MHz
Field Strength of Fundamental	51.4 dB μ V/m	50.8 dB μ V/m	50.0 dB μ V/m
Limit for Fundamental	50 millivolts/meter (93.97 dB μ V/m)	50 millivolts/meter (93.97 dB μ V/m)	50 millivolts/meter (93.97 dB μ V/m)
-20dB Occupied Bandwidth (MHz)	1.197	1.204	1.205

The -20dB bandwidth of the emission shall be contained within the frequency band designated in the rule section under which the equipment is operated.



4 ENGINEERING STATEMENT

This report has been prepared on behalf of L-Tron Corporation to provide documentation for the testing described herein. This equipment has been tested and found to comply with part 15.249 of the FCC Rules using ANSI C63.10 2013 standard. The test results found in this test report relate only to the items tested.



5 EUT INFORMATION AND DATA

5.1 Equipment Under Test:

Product: **OSCR Sensor Tube**

Model: **LTC-IOT-GPS-G2**

Serial No.: 2001

FCC ID: **2AN79-LTC19001**

5.2 Trade Name:

L-Tron Corporation

5.3 Power Supply:

Battery-Operated

5.4 Applicable Rules:

CFR 47, Part 15.249

5.5 Equipment Category:

DXT

5.6 Antenna:

2dBi Gain Integral Antenna

5.7 Accessories:

Charger – Anker Power Port 4 model #A2142

5.8 Test Item Condition:

The equipment to be tested was received in good condition.

5.9 Testing Algorithm:

EUT transmitter was set to continuously transmit. Measurements were made on three channels (low, mid and high). Transmitter modulation was set on the highest level.

**6 LIST OF MEASUREMENT INSTRUMENTATION**

Equipment Type	Asset Number	Manufacturer	Model	Serial Number	Calibration Due Date
Shielded Chamber	CL166-E	Albatross Projects	B83117-DF435-T261	US140023	Aug. 30, 2019
Temp/Hum. Recorder	CL261	Extech	445814	04	Mar. 6, 2020
Receiver	CL151	Rohde & Schwarz	ESU40	100319	Oct. 25, 2019
Receiver	CL204	Rohde & Schwarz	ESR7	101714	Oct. 29, 2019
Horn Antenna	CL098	Emco	3115	9809-5580	Jan. 31, 2021
Horn Antenna 18-26.5 GHz	CL114	A.H. Systems, Inc.	SAS-572	237	Feb. 4, 2021
Pre-Amplifier	CL153	Hewlett Packard	8447E	MY39500791	Aug. 24, 2019
Antenna, 18" Active Loop	CL194	A.H. Systems, Inc.	SAS-562B	281	May 23, 2020
Antenna, JB3 Combination	CL175	Sunol Sciences	JB3	A030315	Oct. 11, 2019
Software:	Tile Version 3.4.B.3 Software Verified: July 25, 2019; Aug. 21, 2019				
Software:	EMC 32, Version 5.20.2 Software Verified: July 5, 2019				
Temp/Hum. Recorder	CL263	Extech	445814	06	Mar. 6, 2020
Transient Limiter	0202	Hewlett Packard	11947A	3107A00729	July 29, 2020
Spectrum Analyzer	CL147	Agilent	E7402A	MY45101241	Jan. 25, 2020
LISN	CL181	Com-Power	LI-125A	191226	Sept. 3, 2019
LISN	CL182	Com-Power	LI-125A	191225	Sept. 3, 2019



7 FCC PART 15.215(e), OCCUPIED BANDWIDTH

7.1 Requirements:

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the -20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage.

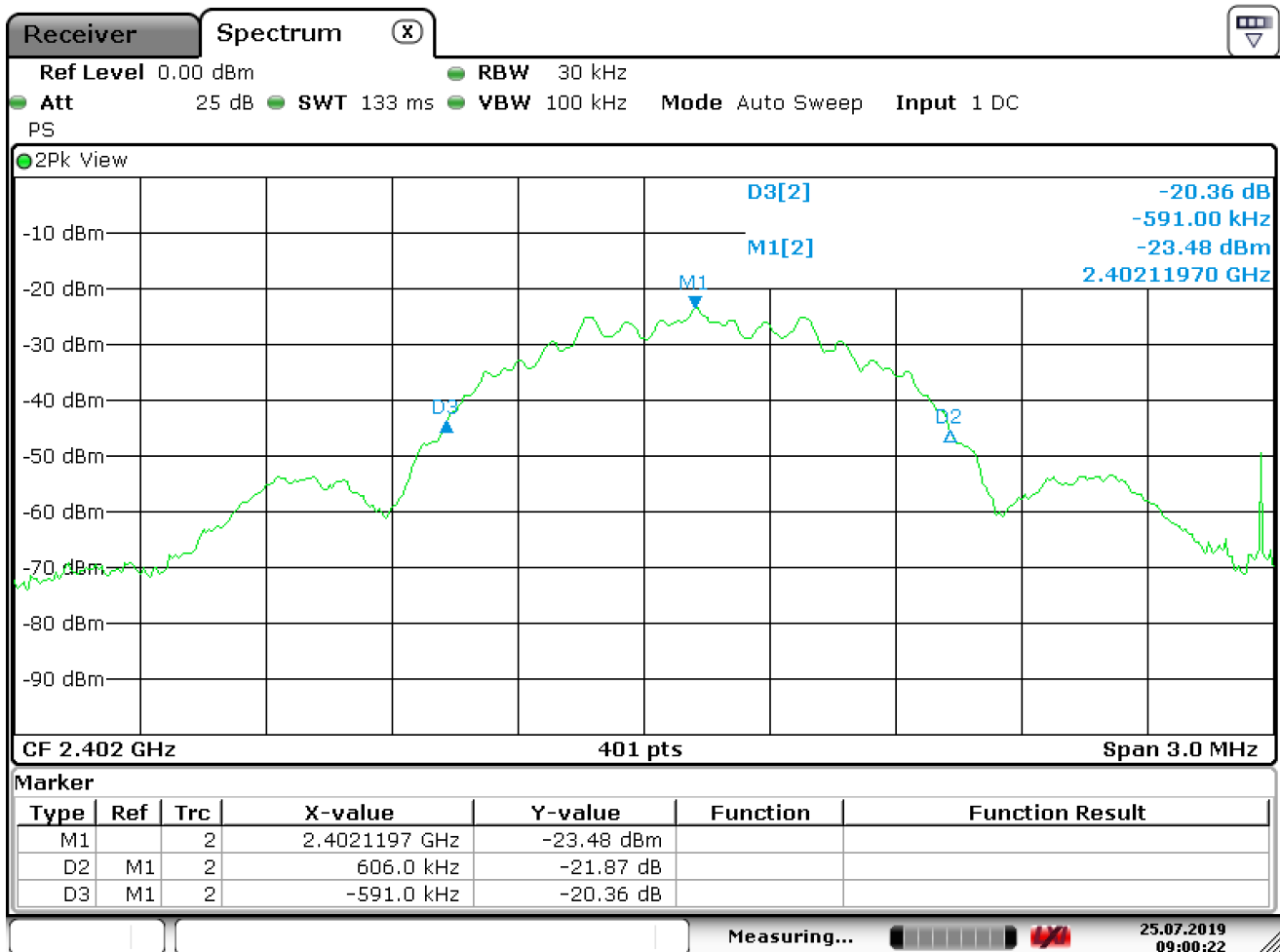
Bandwidth measurements were made at the low (2.402 GHz), mid (2.440 GHz) and upper (2.480 GHz) frequencies. The bandwidth was measured using the analyzer's marker function.



7.2 Occupied Bandwidth Test Data

Test Date(s):	July 25, 2019	Test Engineer(s):	J. Chiller
Standards:	CFR 47 Part 15.215(c)	Air Temperature:	20.3°C
		Relative Humidity:	46%

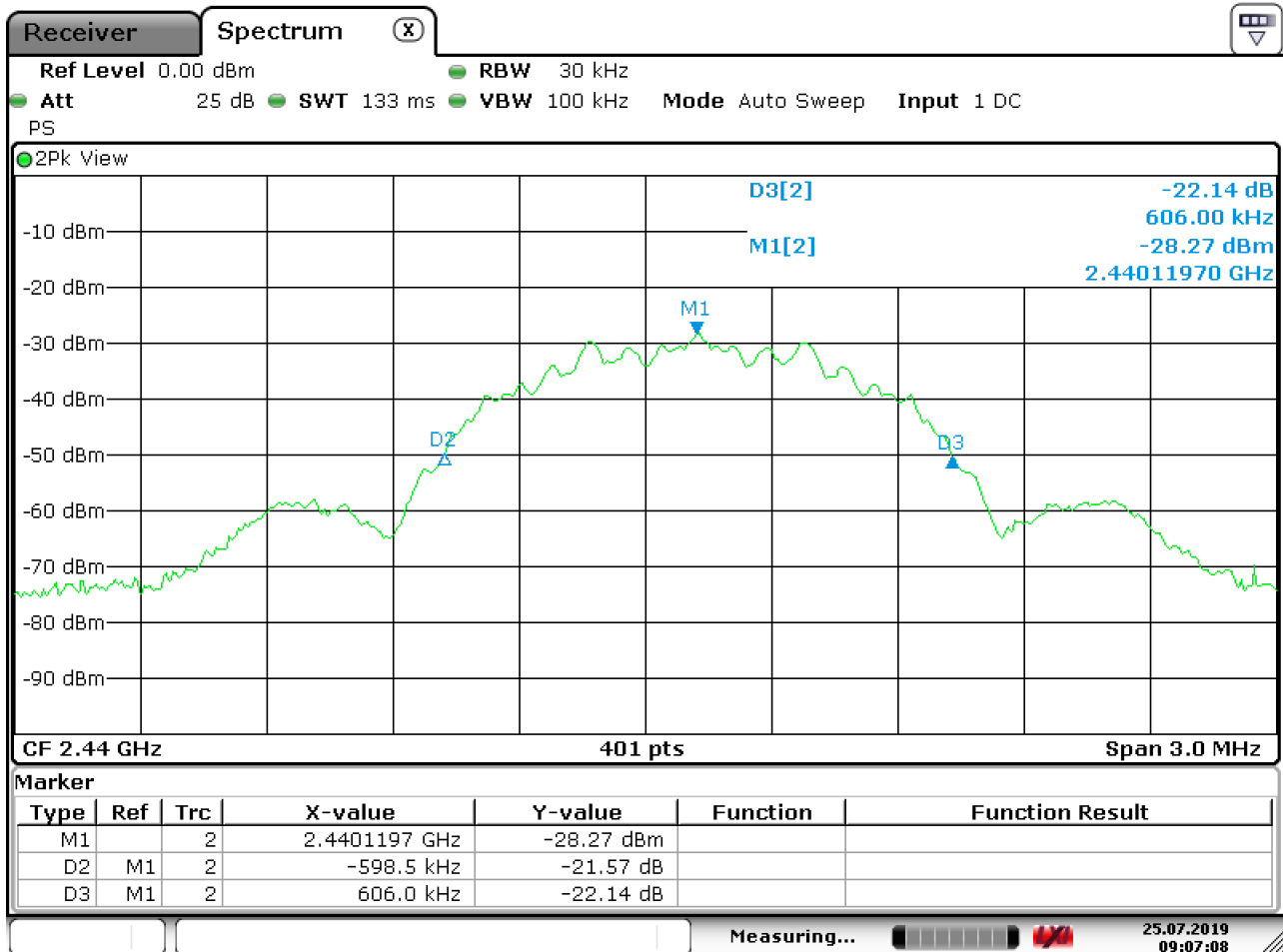
Low Channel



Date: 25.JUL.2019 09:00:23



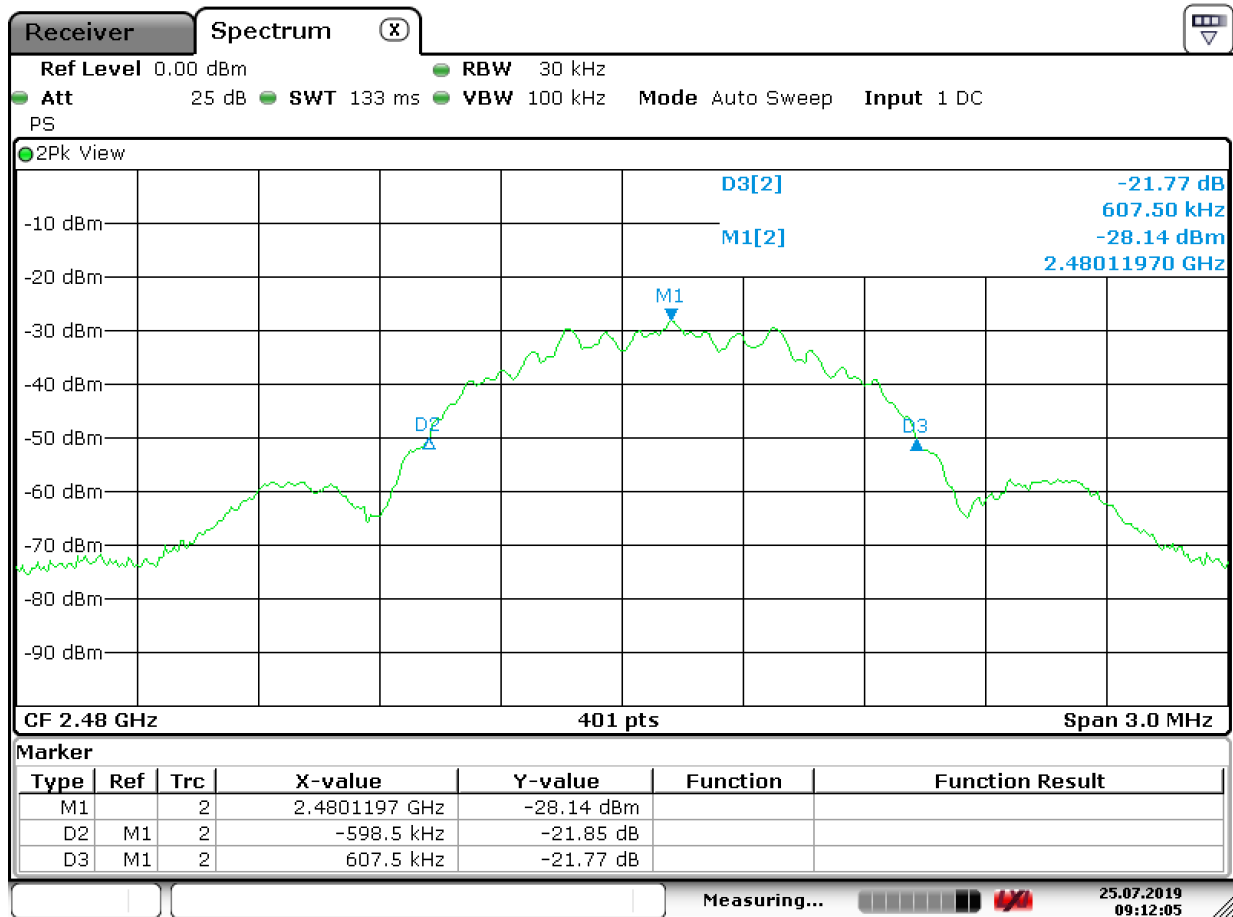
Mid Channel



Date: 25.JUL.2019 09:07:08



High Channel



Date: 25.JUL.2019 09:12:06

**8 FCC PART 15.249(a)(d) – FIELD STRENGTH OF EMISSIONS FROM INTENTIONAL RADIATORS**

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

NOTE: During the pre-scan evaluation, the EUT was rotated in all three orthogonal positions to find the maximum emissions. The orthogonal position that showed the highest emissions was used. The antenna was raised between 1 and 4 meters and the EUT turntable was rotated 360 degrees to maximize the emissions.

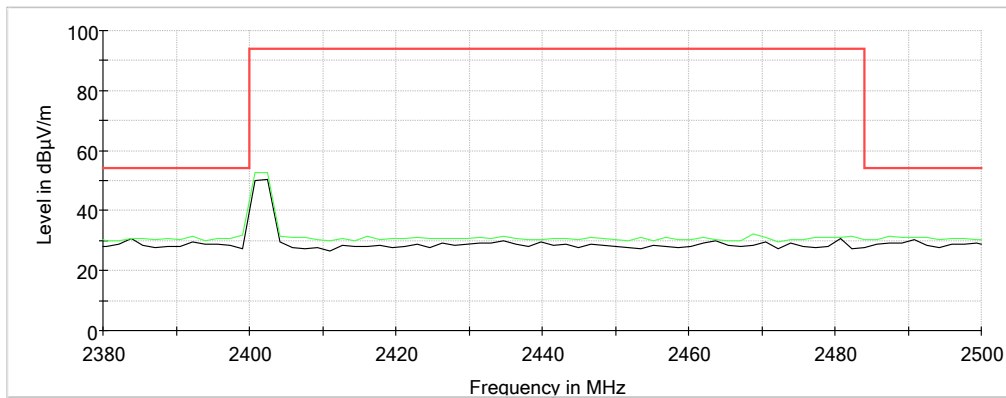
In the following plots, the black trace indicates the active scan and the green indicates the the MaxPk with the EUT on. Emissions to be found by the EUT were measured and listed in tables below.



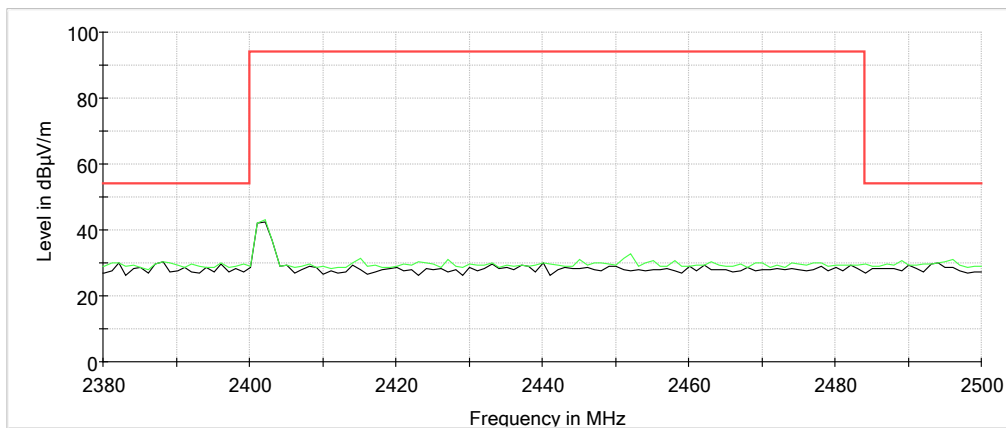
8.1 Test Data – Band Edge and Field Strength of Emissions

Test Date(s):	July 25, 2019	Test Engineer(s):	J. Chiller
Standards:	CFR 47 Part 15.249(a)	Air Temperature:	20.1°C
		Relative Humidity:	47%

Band Edge: Low Channel, Vertical

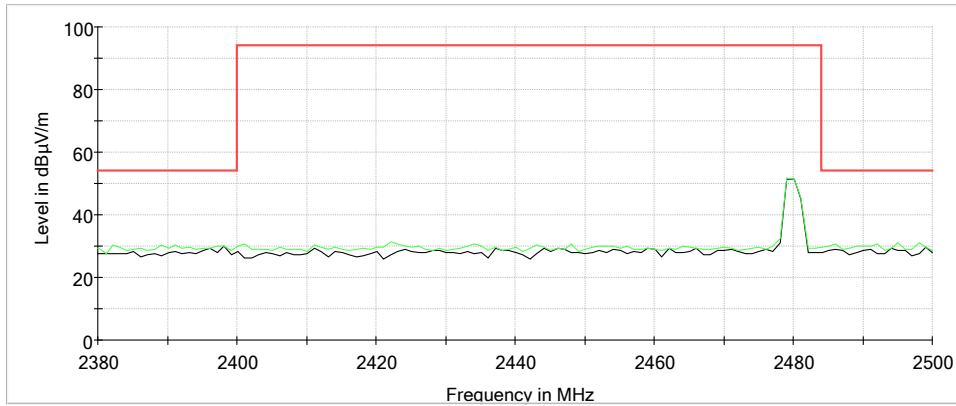


Band Edge: Low Channel, Horizontal

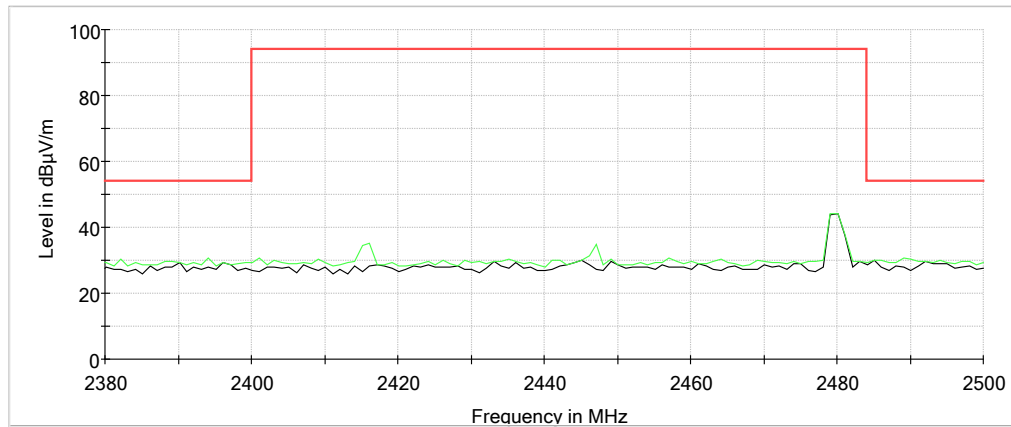




Band Edge: High Channel, Vertical



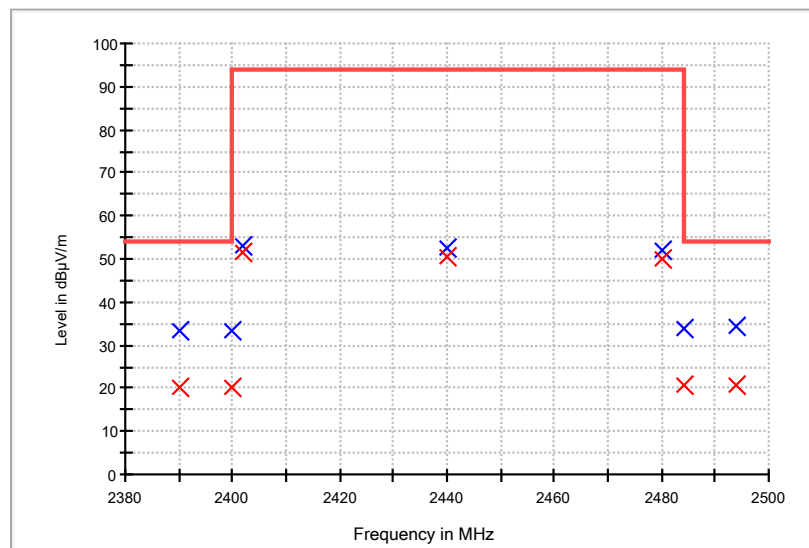
Band Edge: High Channel, Horizontal





Measurements

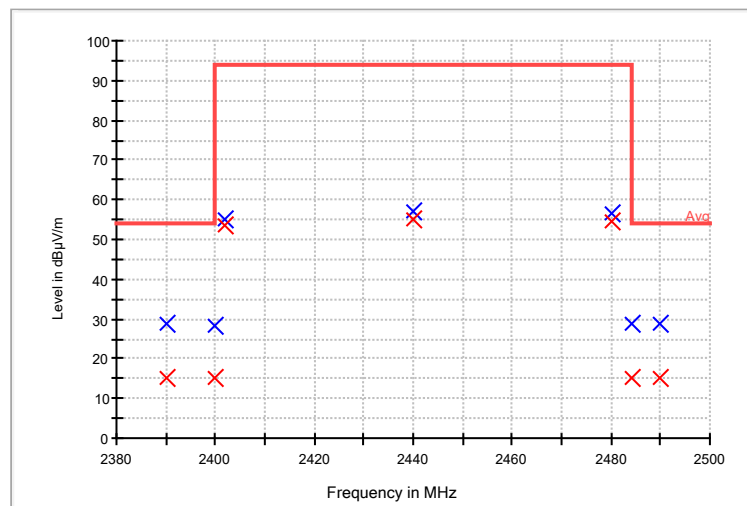
Frequency (MHz)	Polarity	Corr. (dB)	MaxPeak (dBμV/m)	MaxPeak (dBμV/m) Limit	MaxPeak Margin	Average (dBμV/m)	Average (dBμV/m) Limit	Average Margin	Bandwidth (kHz)	Antenna Height (cm)	Azimuth (deg)
2390.000000	V	-4.40	33.1	74	-40.9	20.2	54	-33.8	1000.000	150.000	340.000
2400.000000	V	-4.70	33.1	74	-40.9	20	54	-34.0	1000.000	150.000	340.000
2402.000000	V	-4.70	53.2	114	-60.8	51.4	94	-42.6	1000.000	150.000	340.000
2440.000000	V	-4.30	52.8	114	-61.2	50.8	94	-43.2	1000.000	150.000	345.000
2480.000000	V	-4.30	52	114	-62.0	50	94	-44.0	1000.000	150.000	345.000
2484.000000	V	-4.20	34	74	-40.0	20.5	54	-33.5	1000.000	150.000	345.000
2494.000000	V	-4.10	34.4	74	-39.6	20.5	54	-33.5	1000.000	150.000	345.000





Measurements, with Charger

Frequency (MHz)	Polarity	Corr. (dB)	MaxPeak (dBµV/m)	MaxPeak (dBµV/m) Limit	MaxPeak Margin	Average (dBµV/m)	Average (dBµV/m) Limit	Average Margin	Bandwidth (kHz)	Antenna Height (cm)	Azimuth (deg)
2390.000000	V	-19.10	29	74	-45.0	15.1	54	-38.9	1000.000	150.000	345.000
2400.000000	V	-19.40	28.3	74	-45.7	14.9	54	-39.1	1000.000	150.000	345.000
2402.000000	V	-19.40	55	114	-59.0	53.6	94	-40.4	1000.000	150.000	345.000
2440.000000	V	-19.10	57	114	-57.0	54.9	94	-39.1	1000.000	150.000	201.000
2480.000000	V	-19.10	56.3	114	-57.7	54.5	94	-39.5	1000.000	150.000	185.000
2484.000000	V	-19.00	28.9	74	-45.1	15.3	54	-38.7	1000.000	150.000	185.000
2490.000000	V	-19.00	28.6	74	-45.4	15.3	54	-38.7	1000.000	150.000	185.000





8.2 Test Data – Spurious Emissions

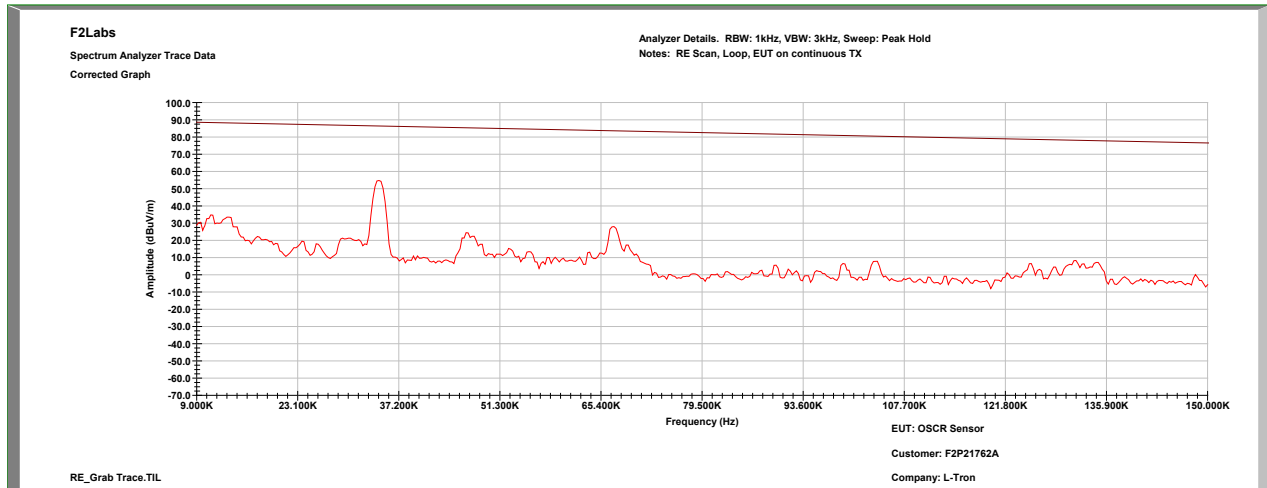
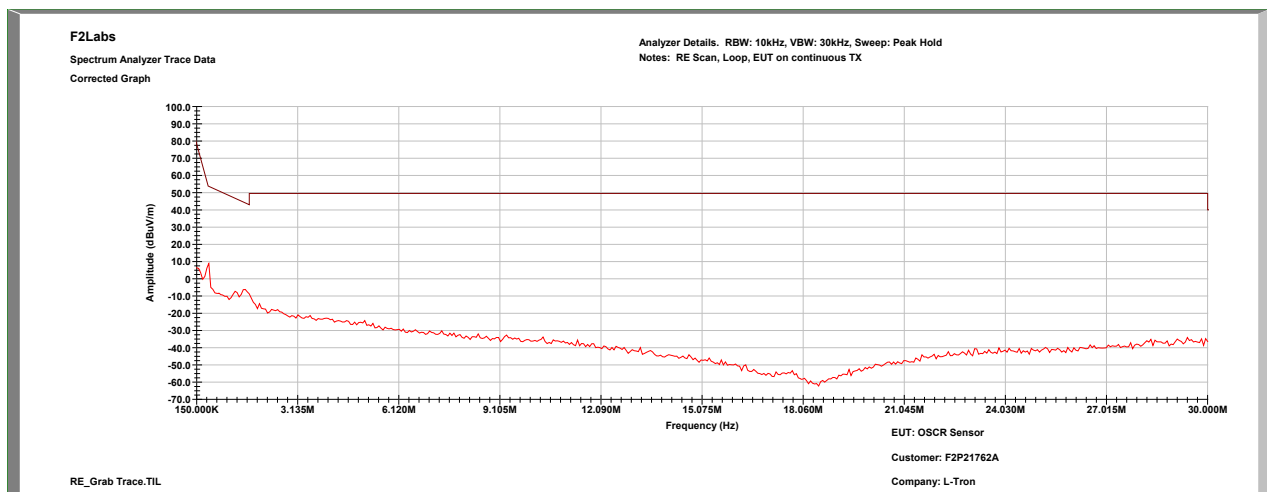
Notes: Plots are peak, max hold pre-scan data included only to determine what frequencies to investigate and measure. During the pre-scan evaluation, the EUT was rotated in all orthogonal positions to find the maximum emissions. The orthogonal position that showed the highest emissions was used. At some frequencies, no emissions from the EUT were measurable over the ambient noise floor. The readings did not change with EUT on and EUT off.

At least 6 of the highest frequencies were measured per ANSI 63.4 in a 3-meter anechoic chamber. Frequencies below 1GHz were measured using a quasi-peak detector. The antenna was raised between 1 and 4 meters and the EUT turntable was rotated 360 degrees to maximize the emissions. Some of the frequencies did not change with the EUT on or off. Frequencies were scanned from 9kHz to 26 GHz and the highest emissions are listed below.

In the following plots, the black trace indicates the active scan and the green indicates the the MaxPk with the EUT on. Emissions to be found by the EUT were measured and listed in tables below.

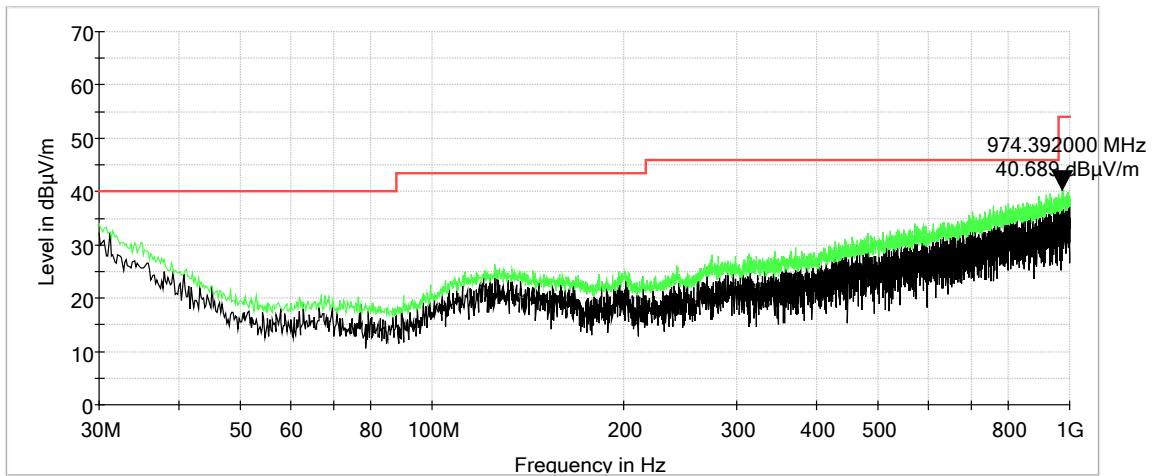


Test Date(s):	July 25, 2019	Test Engineer(s):	J. Chiller
Standards:	CFR 47 Part 15.249(d) / Part 15.209	Air Temperature:	20.1°C
		Relative Humidity:	47%

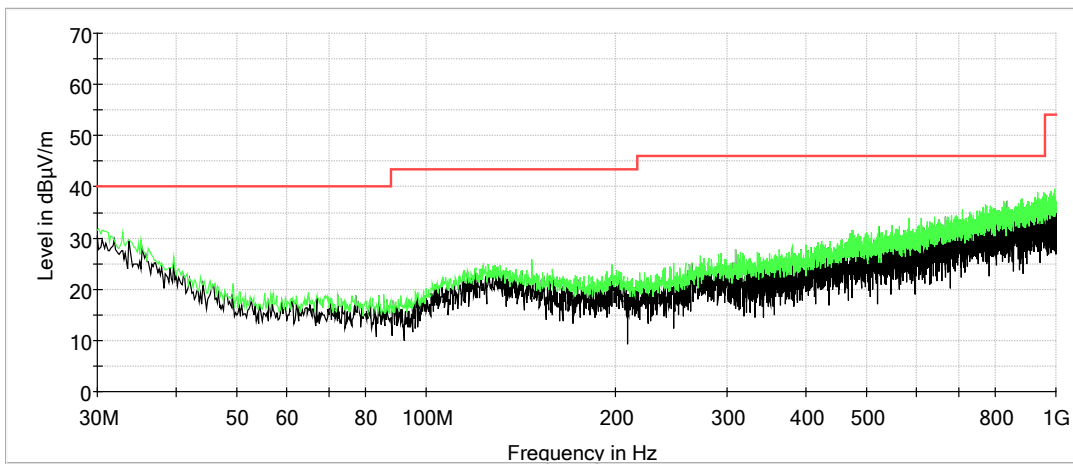
Characterization Scan, 0.009 MHz to 0.15 MHz**Characterization Scan, 0.15 MHz to 30 MHz**



Characterization Scan, 30 MHz to 1000 MHz, Vertical

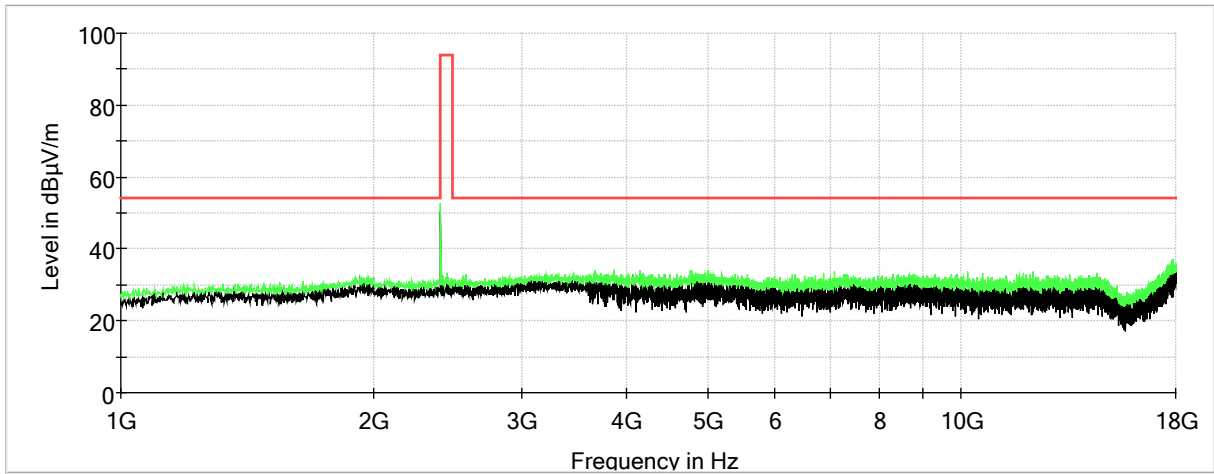


Characterization Scan, 30 MHz to 1000 MHz, Horizontal

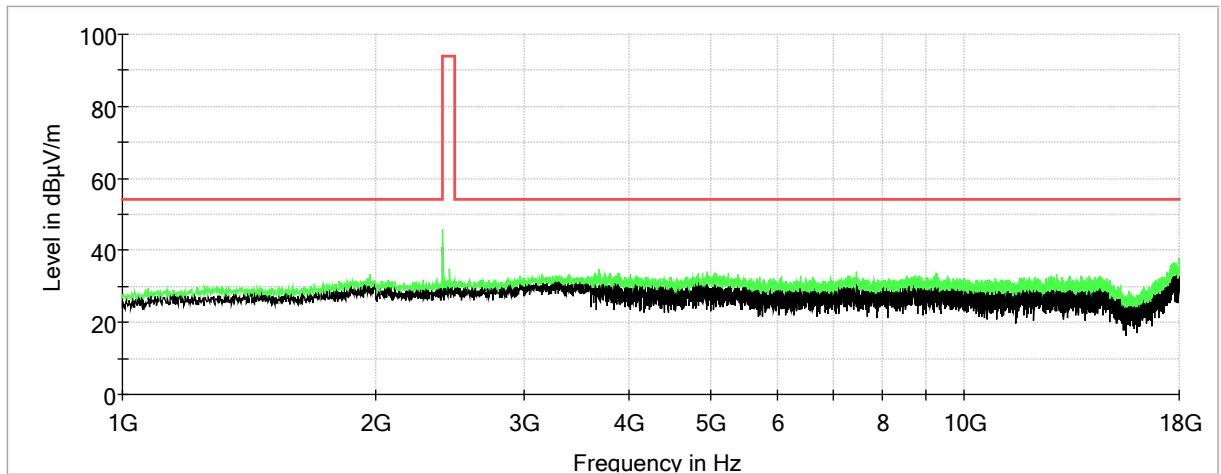




Characterization Scan, 1 GHz to 18 GHz, Vertical

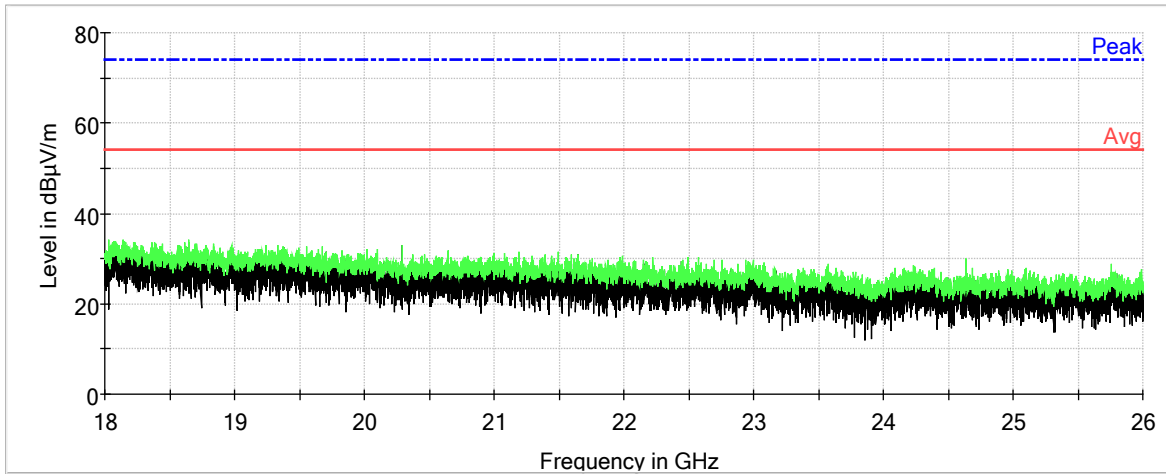


Characterization Scan, 1 GHz to 18 GHz, Horizontal

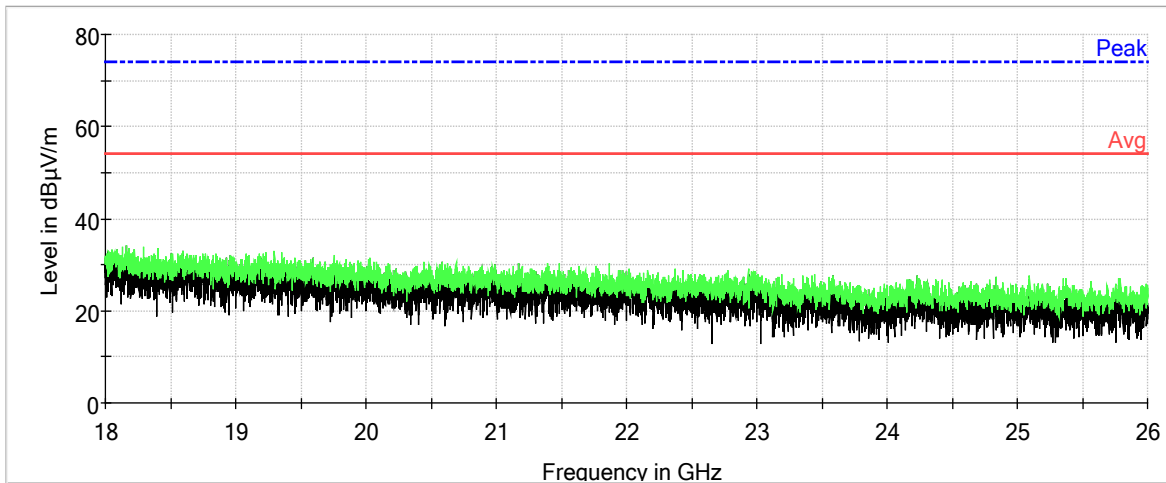




Characterization Scan, 18 GHz to 26 GHz, Vertical



Characterization Scan, 18 GHz to 26 GHz, Horizontal

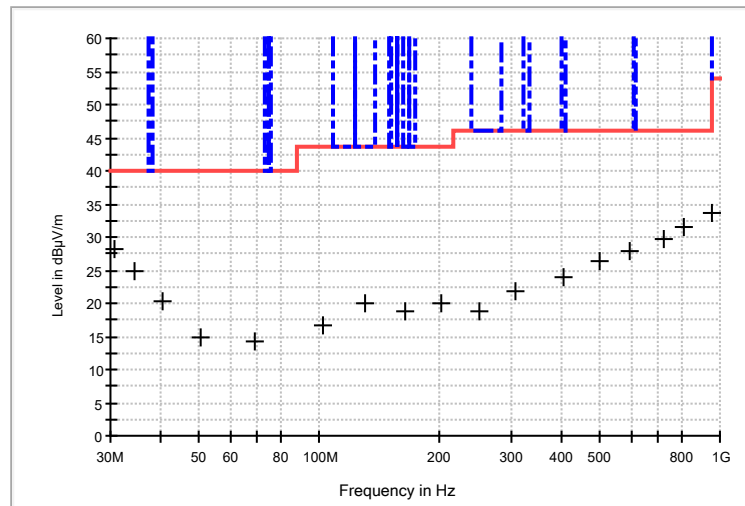




Measurements

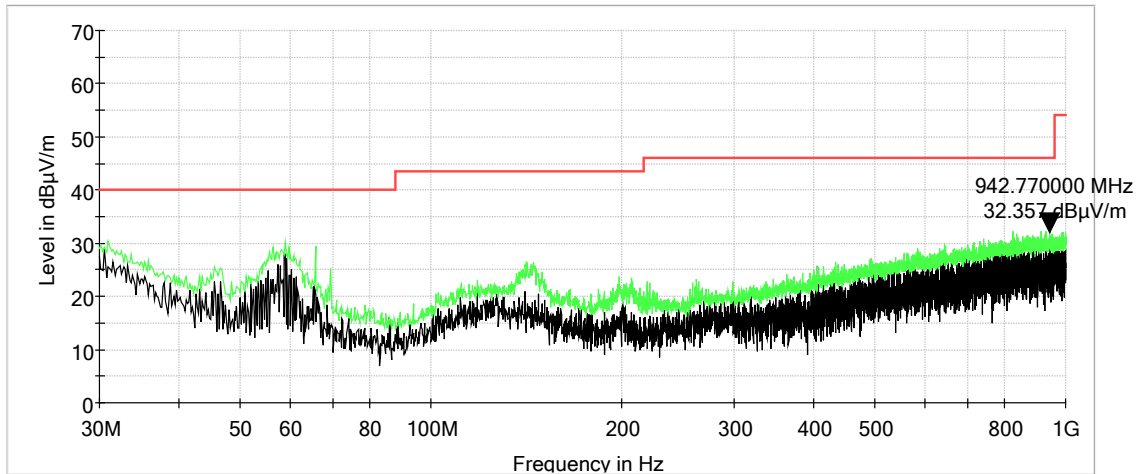
Low Channel (determined to be worst case)

Frequency (MHz)	Antenna Polarization	Antenna Height (cm)	Azimuth (degrees)	Reading (dB μ V)	Cable Loss & Antenna Factor (dB)	Emission (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
30.760000	V	100.00	0.00	20.4	7.7	28.10	40.0	-11.9
34.280000	H	100.00	0.00	20.0	4.9	24.90	40.0	-15.1
40.280000	V	100.00	0.00	20.1	0.3	20.40	40.0	-19.6
50.560000	H	100.00	0.00	19.9	-5.2	14.70	40.0	-25.3
68.800000	V	100.00	0.00	19.6	-5.4	14.20	40.0	-25.8
101.800000	H	100.00	0.00	19.6	-2.9	16.70	43.5	-26.8
129.520000	V	100.00	0.00	19.3	0.6	19.90	43.5	-23.6
163.080000	H	100.00	0.00	19.5	-0.7	18.80	43.5	-24.7
200.920000	V	100.00	0.00	19.4	0.5	19.90	43.5	-23.6
250.960000	H	100.00	0.00	19.0	-0.1	18.90	46.0	-27.1
308.600000	V	100.00	0.00	19.6	2.3	21.90	46.0	-24.1
407.320000	V	100.00	0.00	18.9	5.0	23.90	46.0	-22.1
502.760000	H	100.00	0.00	19.2	7.2	26.40	46.0	-19.6
594.360000	V	100.00	0.00	18.9	8.8	27.70	46.0	-18.3
727.440000	H	100.00	0.00	19.0	10.8	29.80	46.0	-16.2
814.720000	V	100.00	0.00	19.3	12.4	31.70	46.0	-14.3
960.040000	H	100.00	0.00	19.4	14.2	33.60	54.0	-20.4

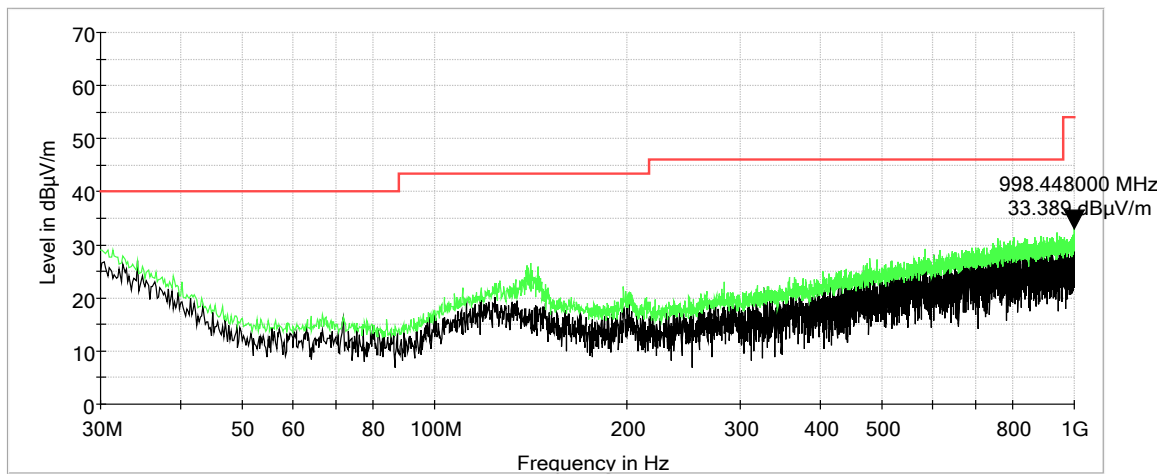




**Characterization Scan, 30 MHz to 1000 MHz, Vertical
With Charger**

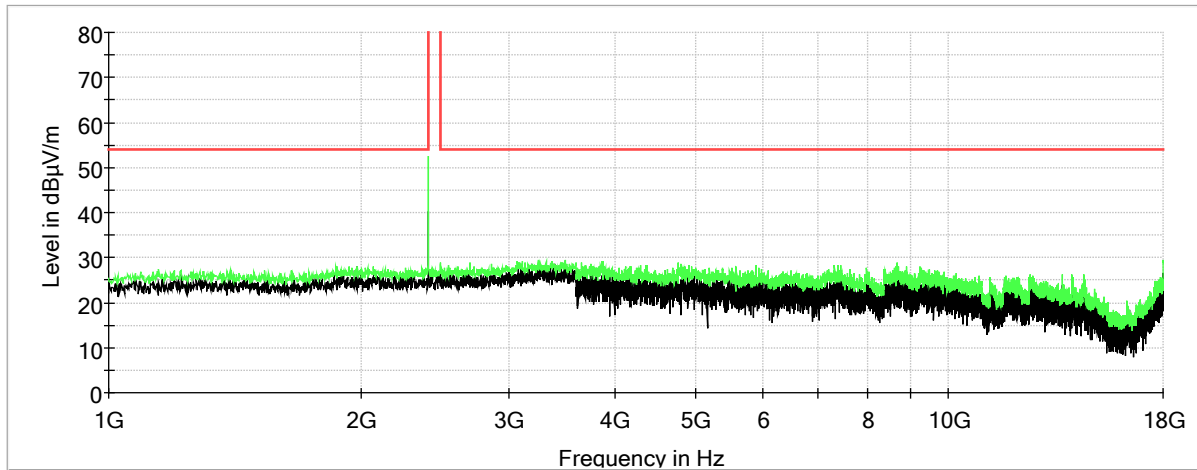


**Characterization Scan, 30 MHz to 1000 MHz, Horizontal
With Charger**

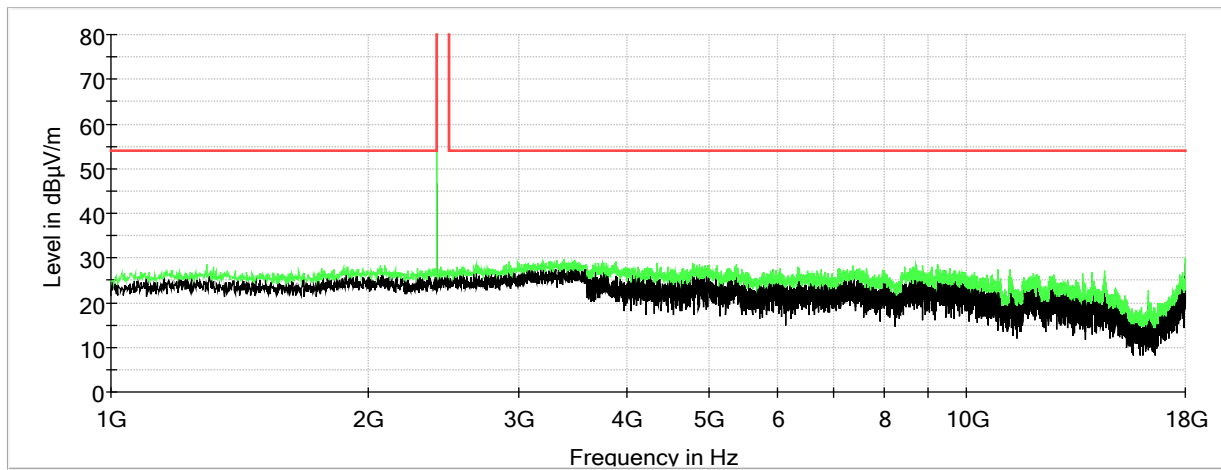




**Characterization Scan, 1 GHz to 18 GHz, Vertical
With Charger**

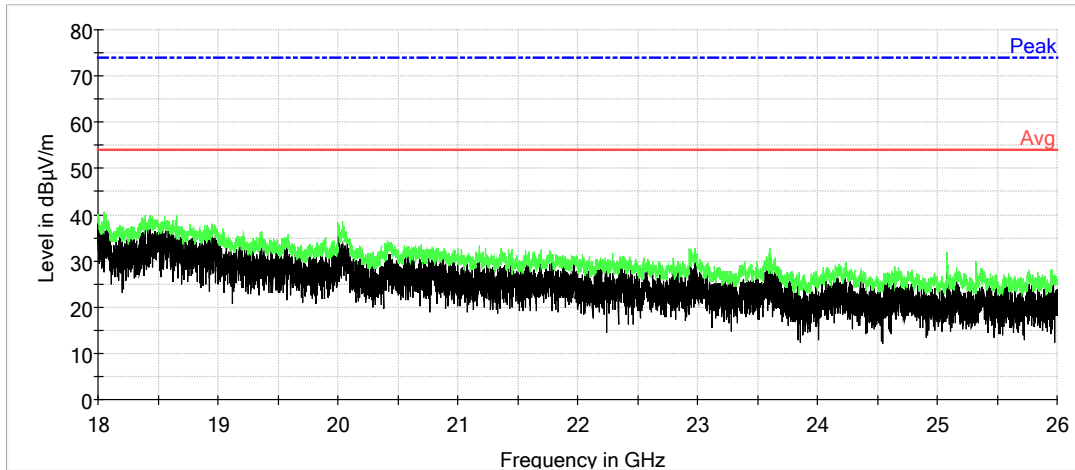


**Characterization Scan, 1 GHz to 18 GHz, Horizontal
With Charger**

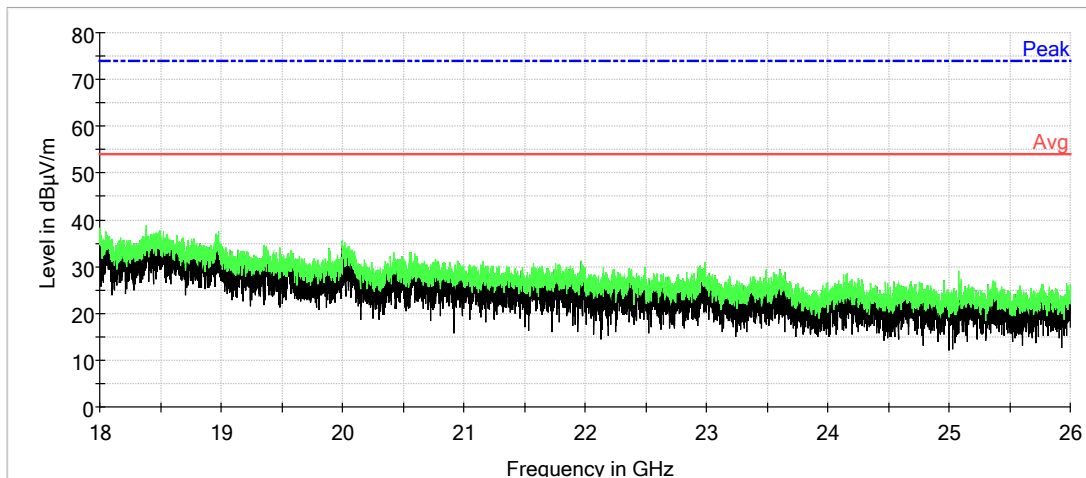




Characterization Scan, 18 GHz to 26 GHz, Vertical With Charger



Characterization Scan, 18 GHz to 26 GHz, Horizontal With Charger

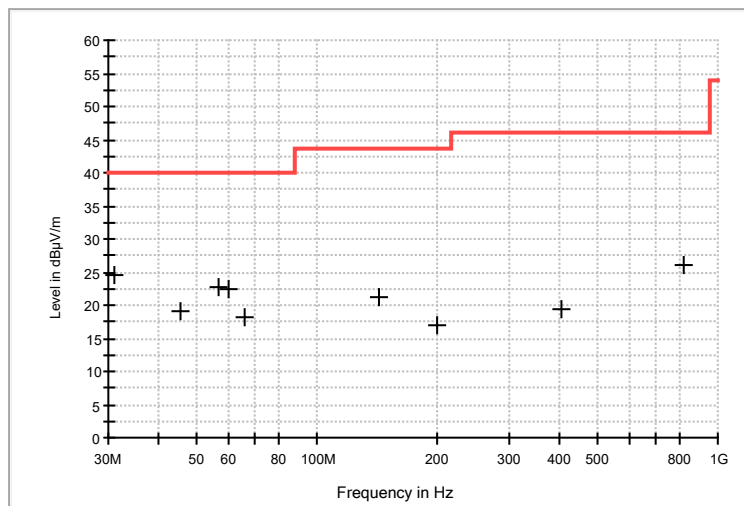




Measurements, with Charger

Low Channel (determined to be worst case)

Frequency (MHz)	Antenna Polarization	Antenna Height (cm)	Azimuth (degrees)	Reading (dB μ V)	Correction Factors (dB)	Emission (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
30.960000	V	101.00	0.00	21.0	3.5	24.50	40.0	-15.5
45.520000	V	101.00	0.00	26.4	-7.4	19.00	40.0	-21.0
56.400000	V	101.00	174.00	33.3	-10.5	22.80	40.0	-17.2
59.680000	V	101.00	188.00	32.8	-10.4	22.40	40.0	-17.6
65.680000	V	101.00	144.00	28.2	-9.9	18.30	40.0	-21.7
141.560000	V	101.00	335.00	25.9	-4.8	21.10	43.5	-22.4
198.000000	V	101.00	189.00	22.0	-5.0	17.00	43.5	-26.5
407.120000	V	101.00	184.00	21.0	-1.5	19.50	46.0	-26.5
824.640000	V	101.00	184.00	21.6	4.3	25.90	46.0	-20.1





9 VOLTAGE VARIATIONS, 15.31(e)

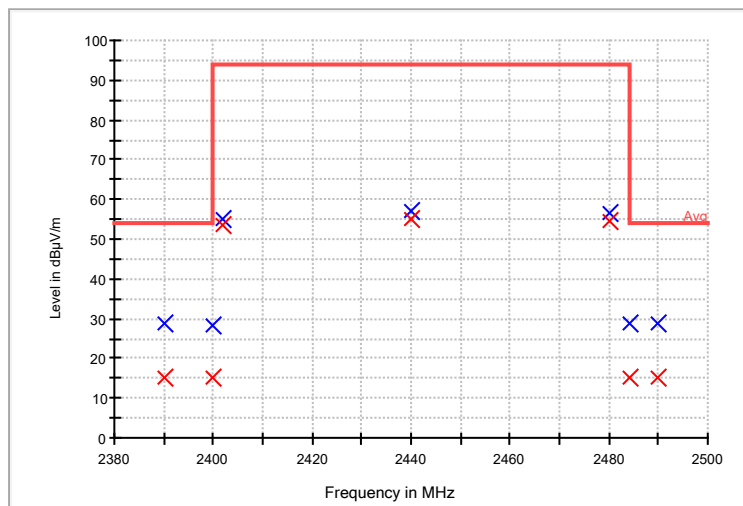
9.1 Requirements

For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery. A nominal voltage of 120VAC was used and then 100VAC and 138VAC were used as the 85% and 115% variations.



9.2 Voltage Variations Test Data

Frequency (MHz)	Polarity	Corr. (dB)	MaxPeak (dB μ V/m)	MaxPeak (dB μ V/m) Limit	MaxPeak Margin	Average (dB μ V/m)	Average (dB μ V/m) Limit	Average Margin	Bandwidth (kHz)	Antenna Height (cm)	Azimuth (deg)
2402.000000	V	-19.40	55.8	114	-58.2	54.4	94	-39.6	1000.000	150.000	185.000
2402.000000	V	-19.40	55.8	114	-58.2	54.4	94	-39.6	1000.000	150.000	185.000
2440.000000	V	-19.10	56.5	114	-57.5	55.1	94	-38.9	1000.000	150.000	185.000
2440.000000	V	-19.10	56.5	114	-57.5	55.1	94	-38.9	1000.000	150.000	185.000
2480.000000	V	-19.10	55.6	114	-58.4	54.3	94	-39.7	1000.000	150.000	185.000
2480.000000	V	-19.10	55.7	114	-58.3	54.3	94	-39.7	1000.000	150.000	185.000



RESULTS: The results showed that the fundamental frequency did not move outside the frequency band and the field strength did not increase above the limit during the variations.



10 CONDUCTED EMISSIONS

10.1 Requirements

In accordance with FCC CFR 47 Part 15.207(a), "Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

10.2 Procedure

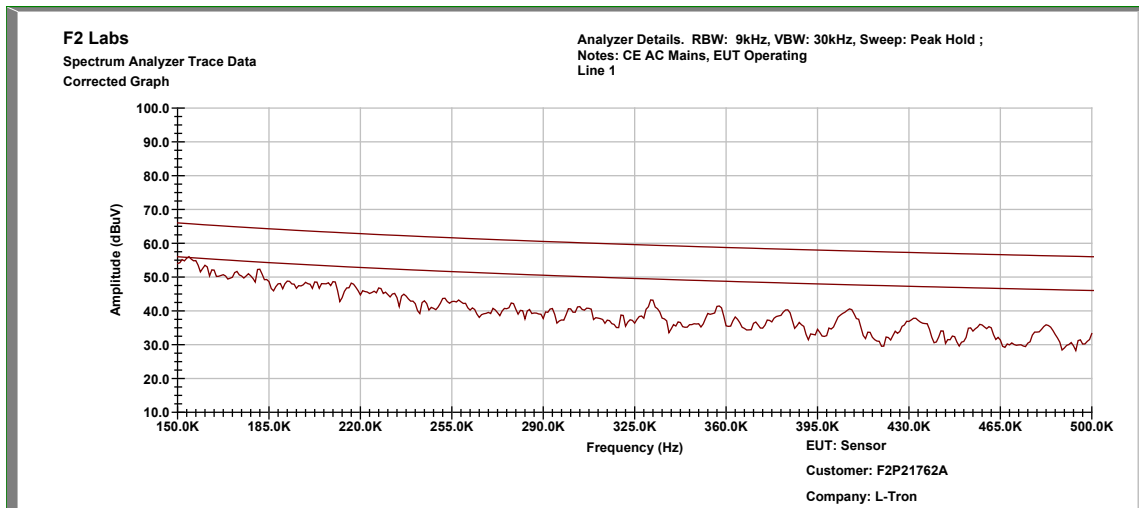
The EUT was placed on a 1.0 x 1.5 meter non-conductive table, 0.8 meter above a horizontal ground plane and 0.4 meter from a vertical ground plane. Power was provided to the EUT through a LISN bonded to a 3 x 2 meter ground plane. The LISN and peripherals were supplied power through a filtered AC power source. The output of the LISN was connected to the input of the receiver via a transient limiter, and emissions in the range 150 kHz to 30 MHz were measured. The measurements were recorded using the quasi-peak and average detectors as directed by the standard, and the resolution bandwidth during testing was 9 kHz. The raw measurements were corrected to allow for attenuation from the LISN, transient limiter and cables.



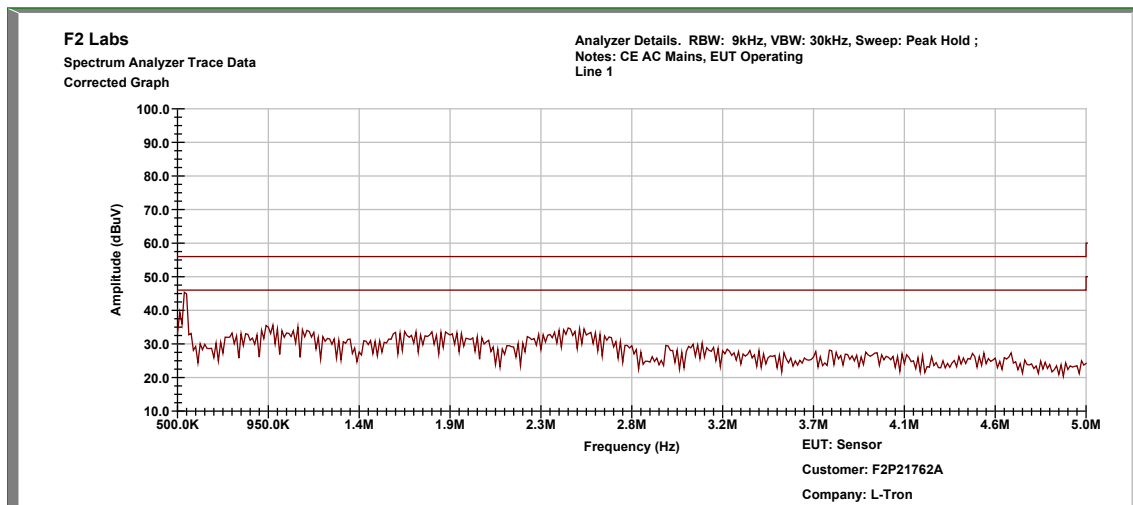
10.3 Conducted Emissions Test Data

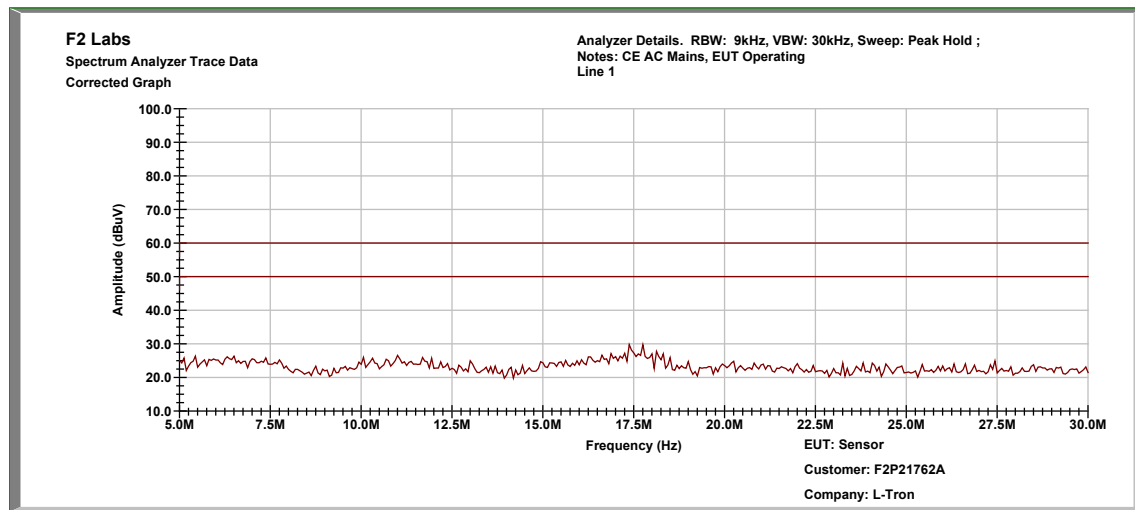
Test Date(s):	Aug. 21, 2019	Test Engineer:	J. Chiller
Rule:	15.207	Air Temperature:	22.2° C
Test Results:	Complies	Relative Humidity:	38%

Conducted Test – Line 1: 0.15 MHz to 0.5 MHz



Conducted Test – Line 1: 0.5 MHz to 5.0 MHz

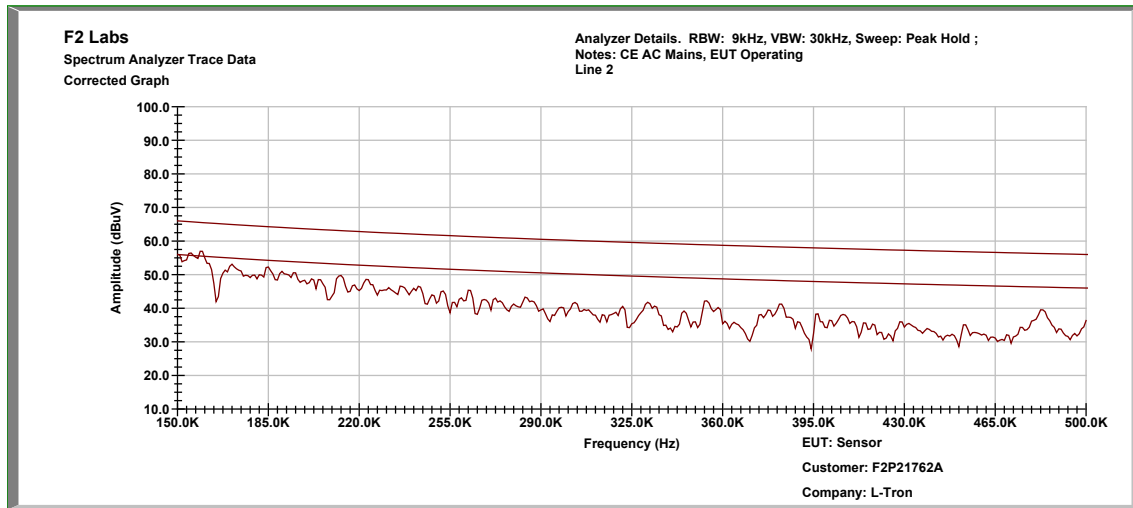


**Conducted Test – Line 1: 5.0 MHz to 30.0 MHz**

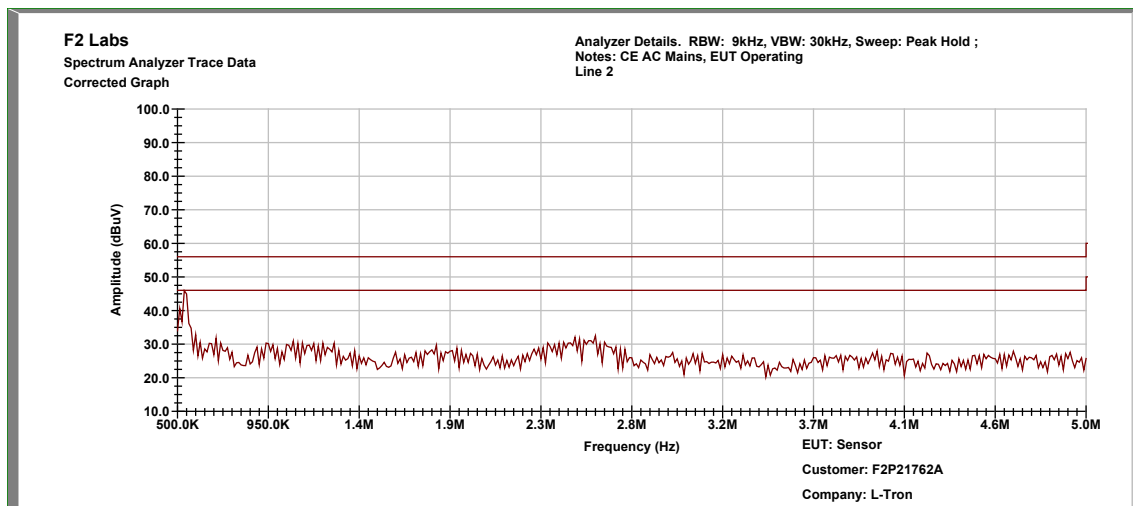
Top Discrete Measurements								
No.	Conductor	Frequency (MHz)	Detector	Level (dBμV)	Adjustment (dB)	Results (dBμV)	Limit (dBμV)	Margin (dB)
1	Line 1	0.155	Quasi-Peak	32.04	11.742	43.78	65.728	-21.9
			Average	12.04	11.742	23.78	55.728	-31.9
2	Line 1	0.545	Quasi-Peak	34.14	10.521	44.66	56.0	-11.3
			Average	31.53	10.521	42.05	46.0	-3.9

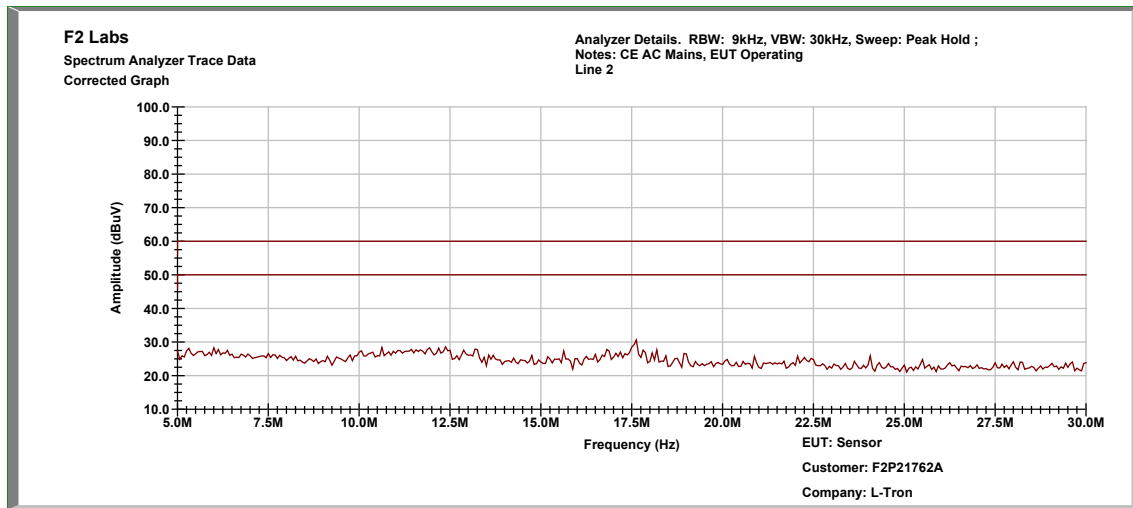


Conducted Test – Line 2: 0.15 MHz to 0.5 MHz



Conducted Test – Line 2: 0.5 MHz to 5.0 MHz

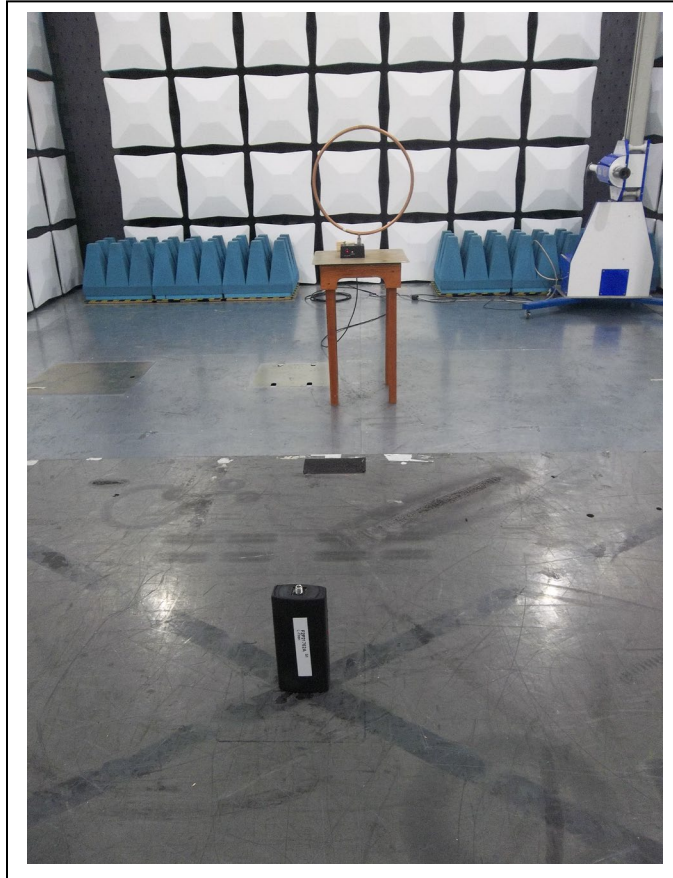


**Conducted Test – Line 2: 5.0 MHz to 30.0 MHz**

Top Discrete Measurements								
No.	Conductor	Frequency (MHz)	Detector	Level (dBμV)	Adjustment (dB)	Results (dBμV)	Limit (dBμV)	Margin (dB)
1	Line 2	0.15525	Quasi-Peak	38.19	12.205	50.40	65.715	-15.3
			Average	16.58	12.205	28.79	55.715	-26.9
2	Line 2	0.159625	Quasi-Peak	35.85	12.151	48.00	65.484	-17.5
			Average	18.75	12.151	30.90	55.484	-24.6
3	Line 2	0.545	Quasi-Peak	33.74	10.871	44.61	56.0	-11.4
			Average	28.88	10.871	39.75	46.0	-6.2

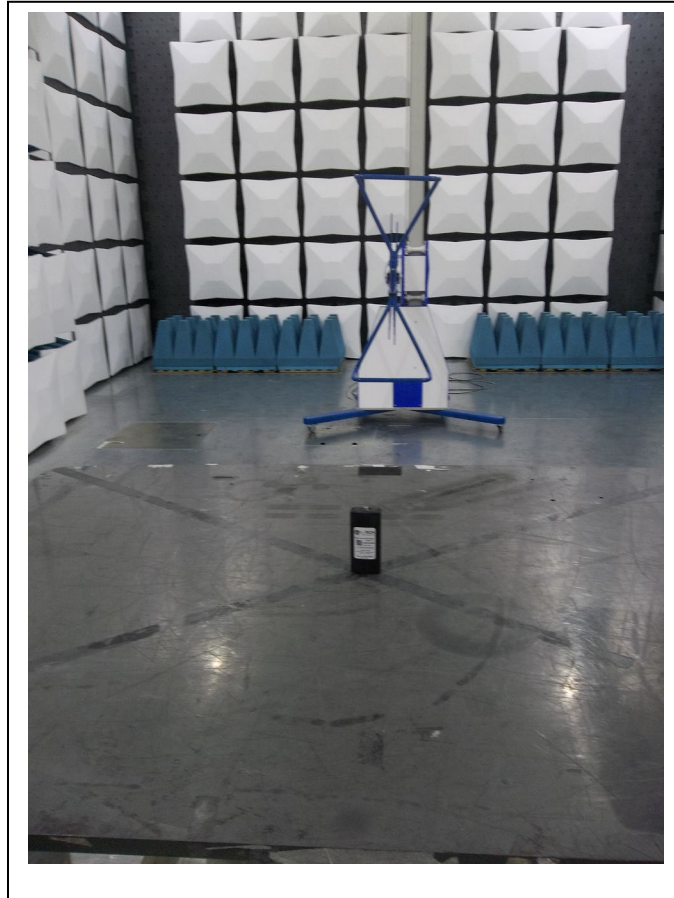
11 PHOTOGRAPHS

Spurious Emissions, Battery Mode: Loop Antenna





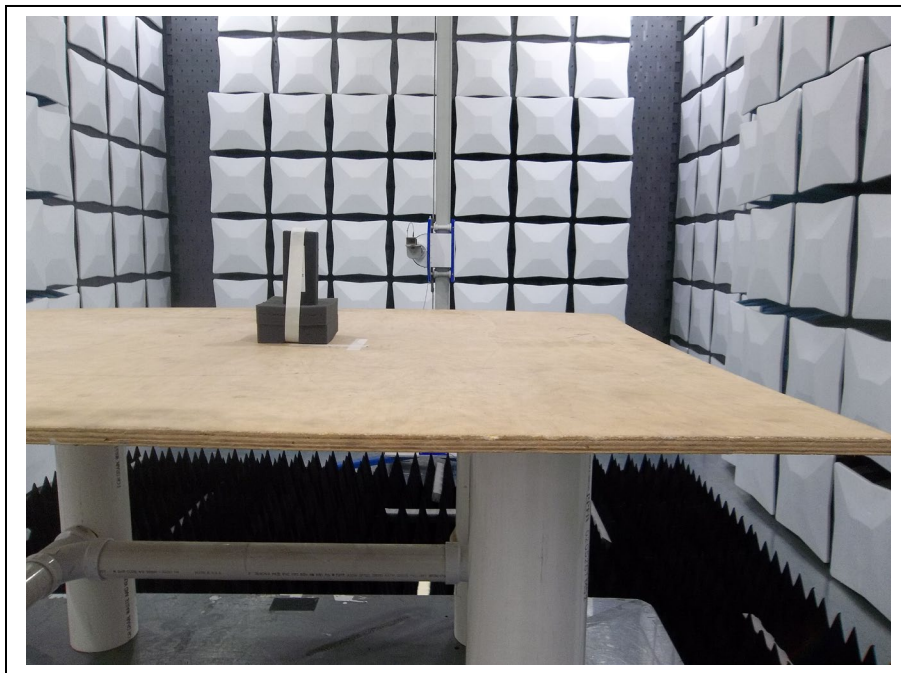
Spurious Emissions, Battery Mode: 30 MHz to 1000 MHz



Spurious Emissions, Battery Mode: 1 GHz to 18 GHz



Spurious Emissions, Battery Mode: 18 GHz to 26 GHz



Field Strength of Emissions, Occupied Bandwidth



Conducted Emissions

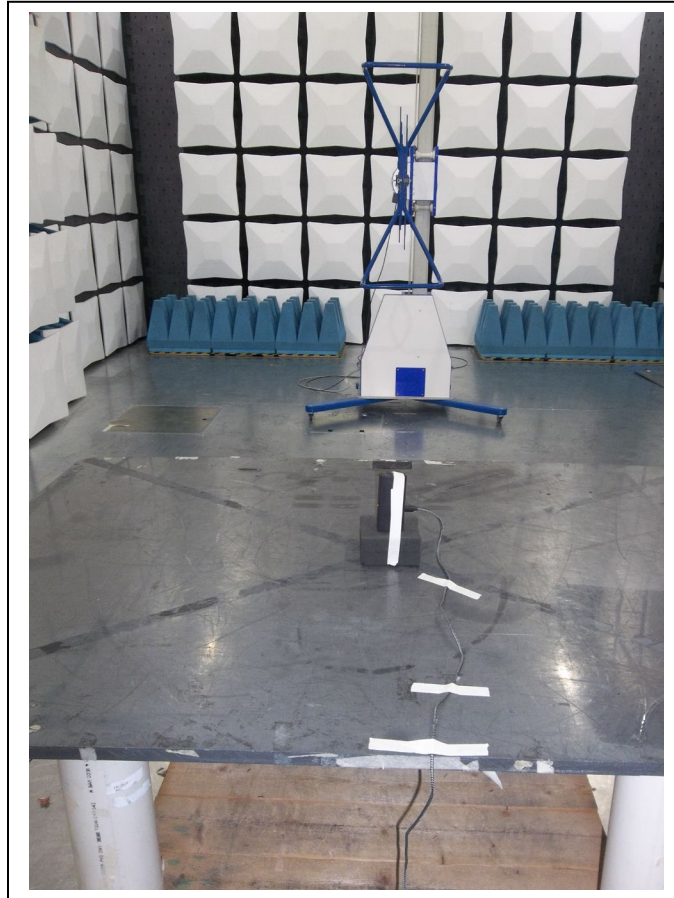


Spurious Emissions, Charger: Loop Antenna



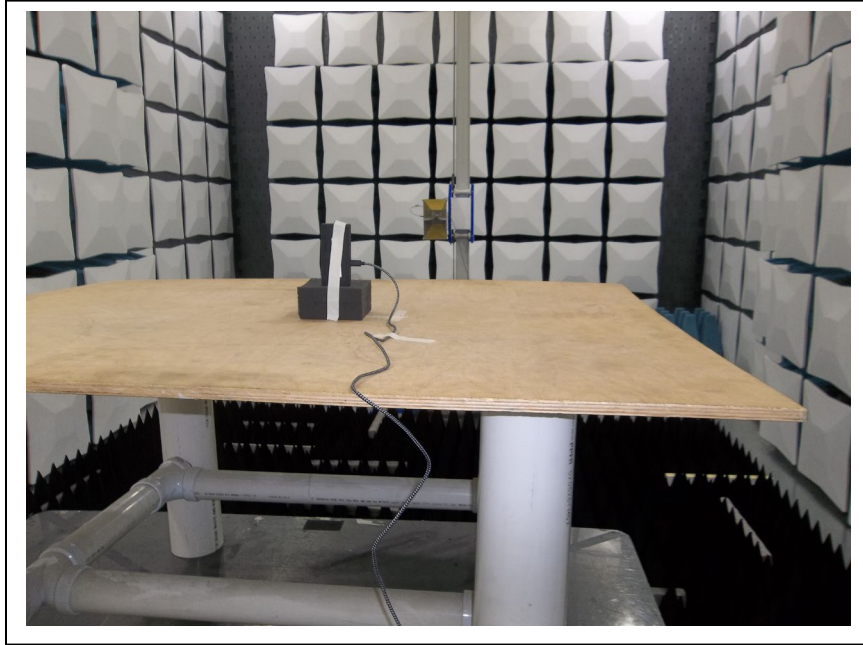


Spurious Emissions, Charger: 30 MHz to 1000 MHz





**Charger: Field Strength, Band Edge, Voltage Variations and
Spurious Emissions 1 GHz to 18 GHz**





Charger: Spurious Emissions 18 GHz to 26 GHz

