

TEST REPORT

Report Number: 105658950MPK-001

Project Numbers: G105658950

Report Issue Date: December 18, 2023

Testing performed on
Evie Ring

Model Number: 430-00631 & 430-00636

to

FCC Part 15 Subpart C (15.247)
ISED RSS-247 Issue 2

For

Movano Inc.

Test Performed by:

Intertek
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Menlo Park, CA 94025 USA

Test Authorized by:

Movano Inc.
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Pleasanton, CA 94566 USA

Prepared by:



Gabriel Carreon

Date: December 18, 2023

Reviewed by:



Anderson Soungpanya

Date: December 18, 2023

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Report No. 105658950MPK-001

Equipment Under Test:	Evie Ring
Model Number:	430-00631 & 430-00636
Applicant:	Movano Inc.
Contact:	Ed Landau
Address:	Movano Inc. 6800 Koll Center Pkwy Suite 160 Pleasanton, CA 94566
Country:	USA
Tel. Number:	(408) 821-7273
Email:	Elandau@movano.com
Applicable Regulation:	FCC Part 15 Subpart C (15.247) ISED RSS-247 Issue 2
Date of Test:	November 20 – 28, 2023

We attest to the accuracy of this report:



Gabriel Carreon
Project Engineer



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1.0 Summary of Tests

Test	Reference FCC	Reference Industry Canada	Result
RF Output Power	15.247(b)(3)	RSS-247, 5.4.d)	Complies
6 dB Bandwidth	15.247(a)(2)	RSS-247, 5.2.a)	Complies
Power Density	15.247(e)	RSS-247, 5.2.b)	Complies
Out of Band Antenna Emission	15.247(d)	RSS-247, 5.5	Complies
Transmitter Radiated Emissions	15.247(d), 15.209, 15.205	RSS-247, 5.5	Complies
AC Line Conducted Emission	15.207	RSS-GEN	Complies
Antenna Requirement	15.203	RSS-GEN	Complies (Internal Antenna)

EUT receive date: November 20, 2023**EUT receive condition:** The pre-production version of the EUT was received in good condition with no apparent damage. As declared by the Applicant, it is identical to the production units.**Test start date:** November 20, 2023**Test completion date:** November 28, 2023

The test results in this report pertain only to the item tested.

2.0 General Information

2.1 Product Description

Movano Inc. supplied the following description of the EUT:

The Evie Ring is a wearable device that consists of a processor chip, antennas, a rechargeable battery, and commercially available sensors to collect and send physiological data. The Evie Ring provides self-monitoring of physiological data in adults including vital signs, wellness data, and women's health data. Measurement and display of the User's vital signs (pulse rate and blood oxygenation levels) are the Essential Performance functions of the Evie Ring. Wellness data includes pulse rate variability, respiration rate, steps tracker, skin temperature, calories tracker, and sleep tracker. Women's health data includes a menstruation tracker, ovulation tracker, pregnancy tracker, and menopause tracker.

For more information, refer to the following product specification, declared by the manufacturer.

Information about the 2.4 GHz radio is presented below:

Applicant	Movano Inc.
Model No.	430-00631 & 430-00636
Type of transmission	Bluetooth Low Energy (BLE)
Rated RF Output	-9.20 dBm EIRP
Antenna(s) & Gain*	-7.49 dBi Non-removable Internal Antenna
Frequency Range	2402 – 2480 MHz
Type of modulation/data rate	GFSK
Number of Channel(s)	40 (Channel 0 - 39)
Applicant Name & Address	Movano Inc. 6800 Koll Center Pkwy Suite 160 Pleasanton, CA 94566 USA

*as provided by the client. Intertek takes no responsibility for the accuracy of this information.

2.2 Related Submittal(s) Grants

None.

2.3 Test Facility

The test site used to collect the radiated data is site 1 (10-m semi-anechoic chamber). This test facility and site measurement data have been fully placed on file with the FCC, IC and A2LA accredited.

2.4 Test Methodology

Measurements were performed according to the FCC documents "Guidance for Performing Compliance Measurement on Digital Transmission Systems (DTS) Operating under §15.247" (KDB 558074 D01 DTS Meas Guidance v05r02), and RSS-247 Issue 2, RSS-GEN Issue 5.

Radiated emissions and AC mains conducted emissions measurements were performed according to the procedures in ANSI C63.10: 2013. Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Data Sheet" of this report.

2.5 Measurement Uncertainty

Compliance with the limits was based on the results of the measurements and doesn't take into account the measurement uncertainty.

Estimated Measurement Uncertainty

Measurement	Expanded Uncertainty (k=2)		
	0.15 MHz – 1 GHz	1 GHz – 2.5 GHz	> 2.5 GHz
RF Power and Power Density – antenna conducted	-	0.7 dB	-
Unwanted emissions – antenna conducted	1.1 dB	1.3 dB	1.9 dB
Bandwidth – antenna conducted	-	30 Hz	-

Measurement	Expanded Uncertainty (k=2)			
	0.15 MHz – 30MHz	30 – 200 MHz	200 MHz – 1 GHz	1 GHz – 18 GHz
Radiated emissions	-	4.7	4.6	5.1 dB
AC mains conducted emissions	2.1 dB	-	-	-

3.0 System Test Configuration

3.1 Support Equipment

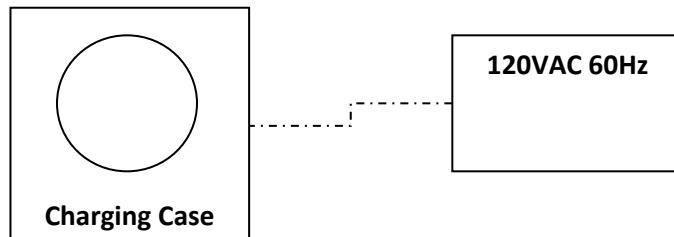
Support Equipment		
Description	Manufacturer	Model
AC Adapter	Wanshine	NA
Evie Ring Charger	Movano, Inc.	430-00824

3.2 Block Diagram of Test Setup

Equipment Under Test			
Description	Manufacturer	Model	Serial Number
Evie Ring	Movano, Inc.	430-00636 (large size)	61DA
Evie Ring	Movano, Inc.	430-00631 (small size)	69D8, 6720

EUT has an internal antenna that cannot be removed.

All testing was performed with Antenna on EUT



S = Shielded
U = Unshielded

F = With Ferrite
m = Length in Meters

EUT Photo

Normal Mode



Charging Mode

3.3 Justification

For radiated emission measurements the EUT is placed on a non-conductive table. The EUT was configured to continuously transmit. The highest clock frequency used in the EUT is 2.480 GHz.

The Evie Ring comes in two sizes. The RF circuitry is declared mechanically and electrically identical by the manufacturer. Both sizes were tested for Radiated Emissions and the worst-case Emissions are reported.

3.4 Software Exercise Program

The EUT exercise program used during radiated testing was provided by Movano Inc.

3.5 Mode of Operation during Test

Mode of operation during the tests was setup using a laptop which allows controlling the radio by test software. During the transmitter tests the reference GUI power level was set to 3.

EUT was placed into transmit mode at the lowest (2402MHz) middle (2440MHz), and highest (2480MHz) channels while modulating at 100% duty Cycle.

3.6 Modifications Required for Compliance

No modifications were made by the manufacturer or Intertek to the EUT in order to bring the EUT into compliance.

3.7 Additions, Deviations and Exclusions from Standards

No additions, deviations or exclusions from the standard were made.

4.0 Measurement Results

4.1 6-dB Bandwidth and 99% Occupied Bandwidth

FCC Rule: 15.247(a)(2); RSS-247, 5.2.a) and RSS-GEN;

4.1.1 Requirement

The minimum 6-dB bandwidth shall be at least 500 kHz

4.1.2 Procedure

A spectrum analyzer was connected to a horn antenna and the EUT was set to transmit 10cm away from the Horn Antenna.

For FCC 6dB Channel Bandwidth the Procedure described in the FCC Publication KDB 558074 D01 Meas Guidance v05r02 was used to determine the DTS occupied bandwidth. Section 11.8.1 Option 1 of ANSI 63.10 was used.

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

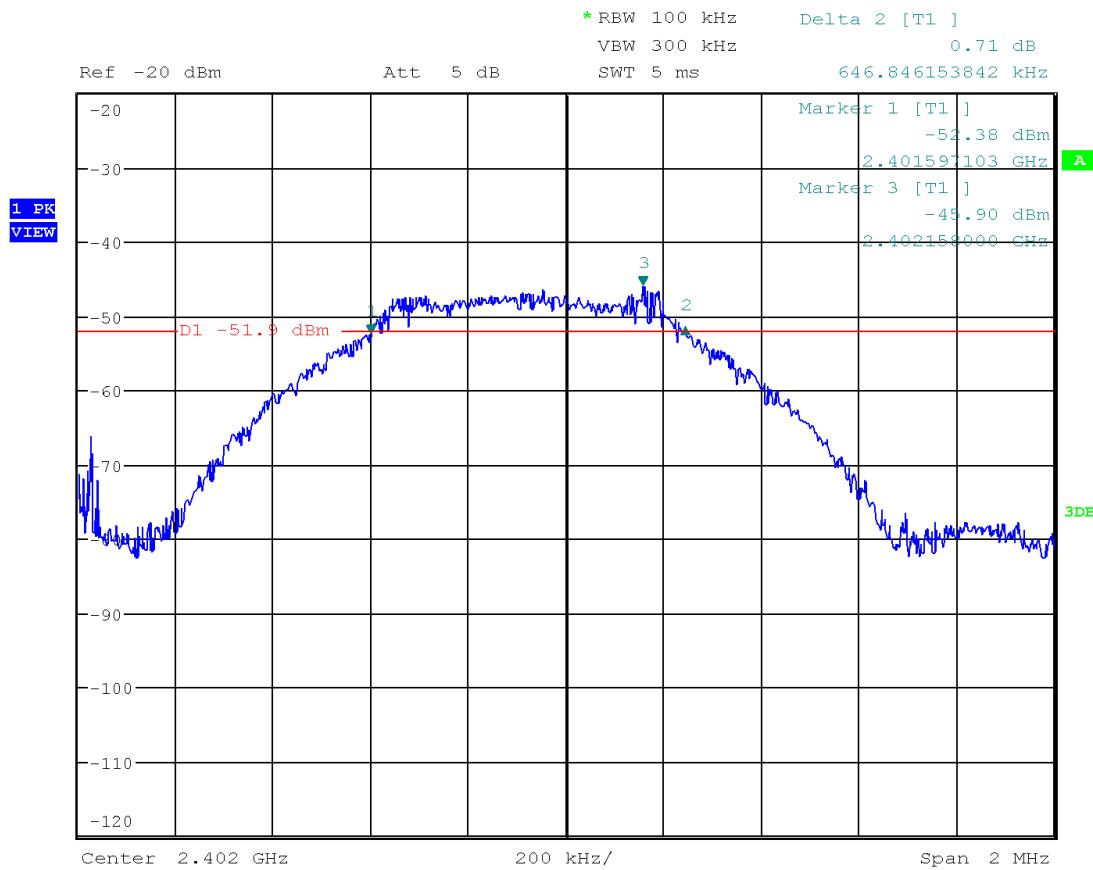
For 99% power bandwidth measurement, the bandwidth was determined by using the built-in 99% occupied bandwidth function of the spectrum analyzer. The resolution bandwidth is set to 1% of the selected span as is without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth.

4.1.3 Test Result

Frequency (MHz)	6-dB bandwidth FCC 15.247 & RSS-GEN, MHz	Occupied bandwidth, RSS-GEN, MHz	Plot
2402	0.64685	--	1.1
	--	1.017	1.4
2440	0.65447	--	1.2
	--	1.026	1.5
2480	0.64103	--	1.3
	--	1.026	1.6

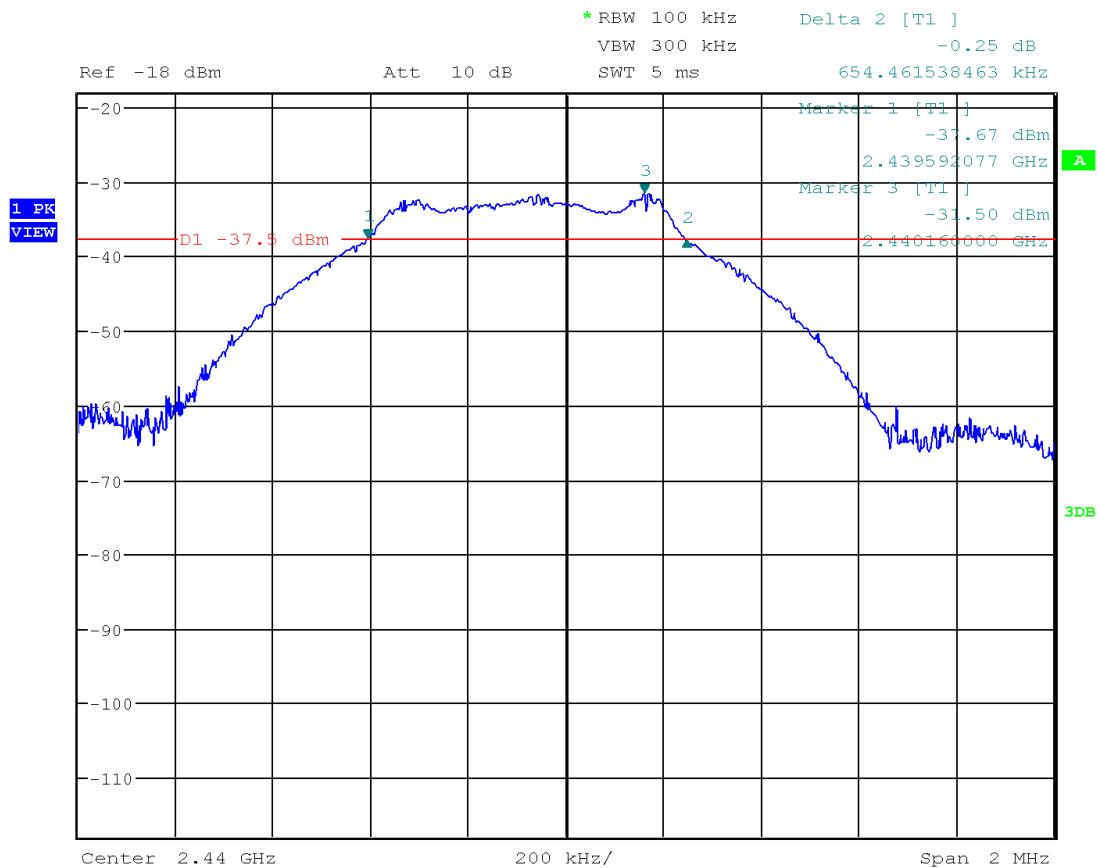
Tested By	Test Date	Results
Gabriel Carreon	November 22, 2023	Complies

Plot 1.1



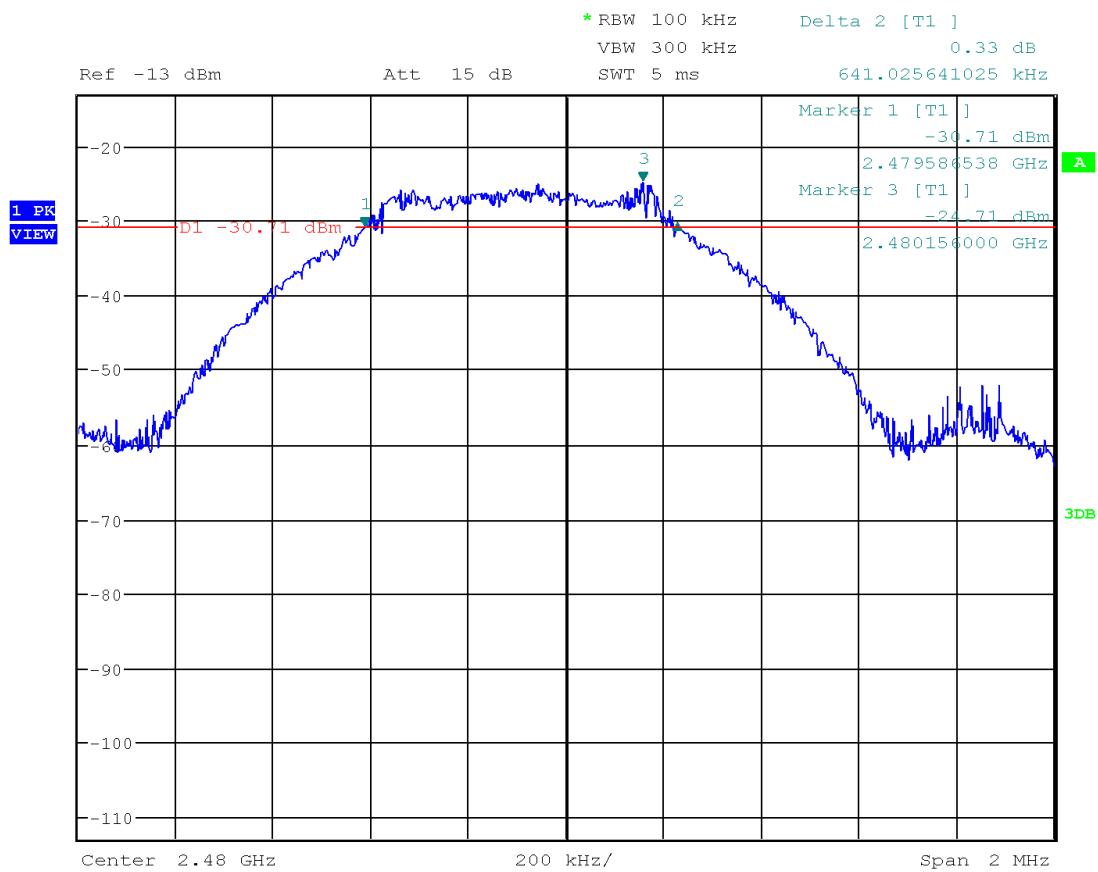
Date: 22.NOV.2023 12:30:28

Plot 1.2



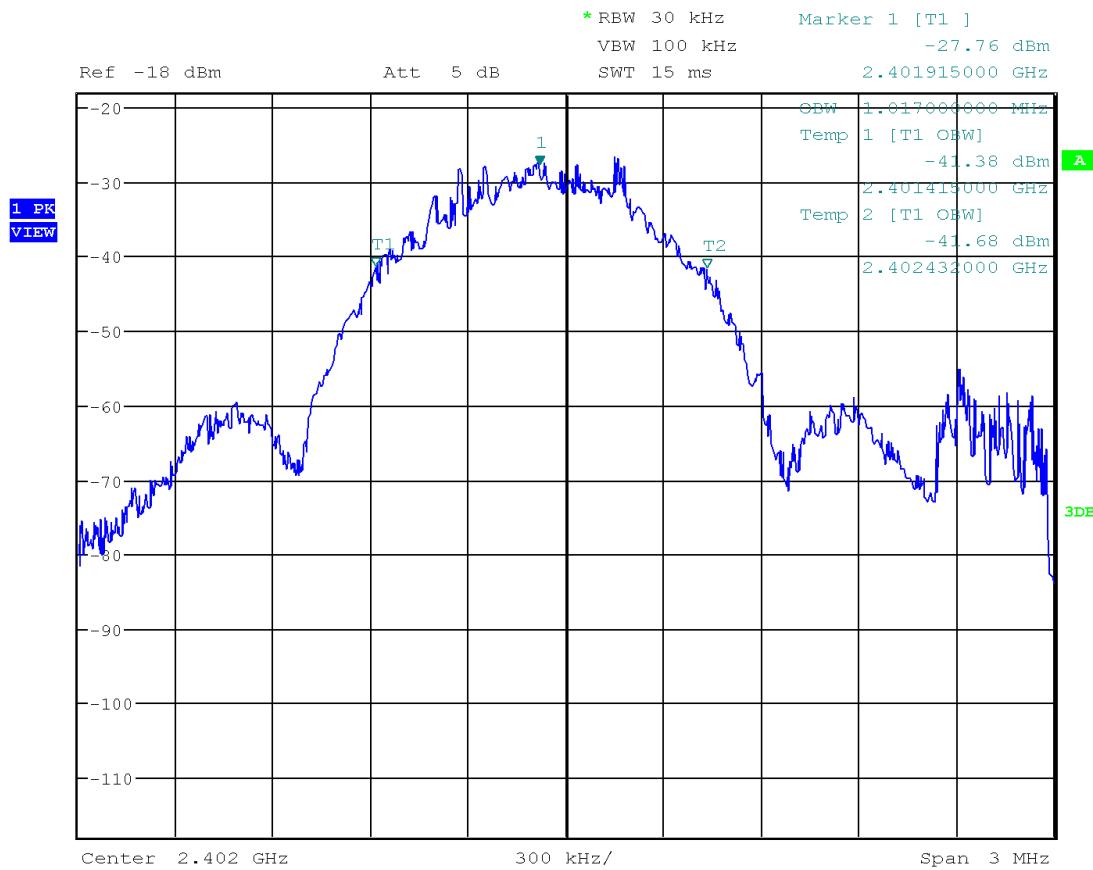
Date: 22.NOV.2023 13:42:41

Plot 1.3



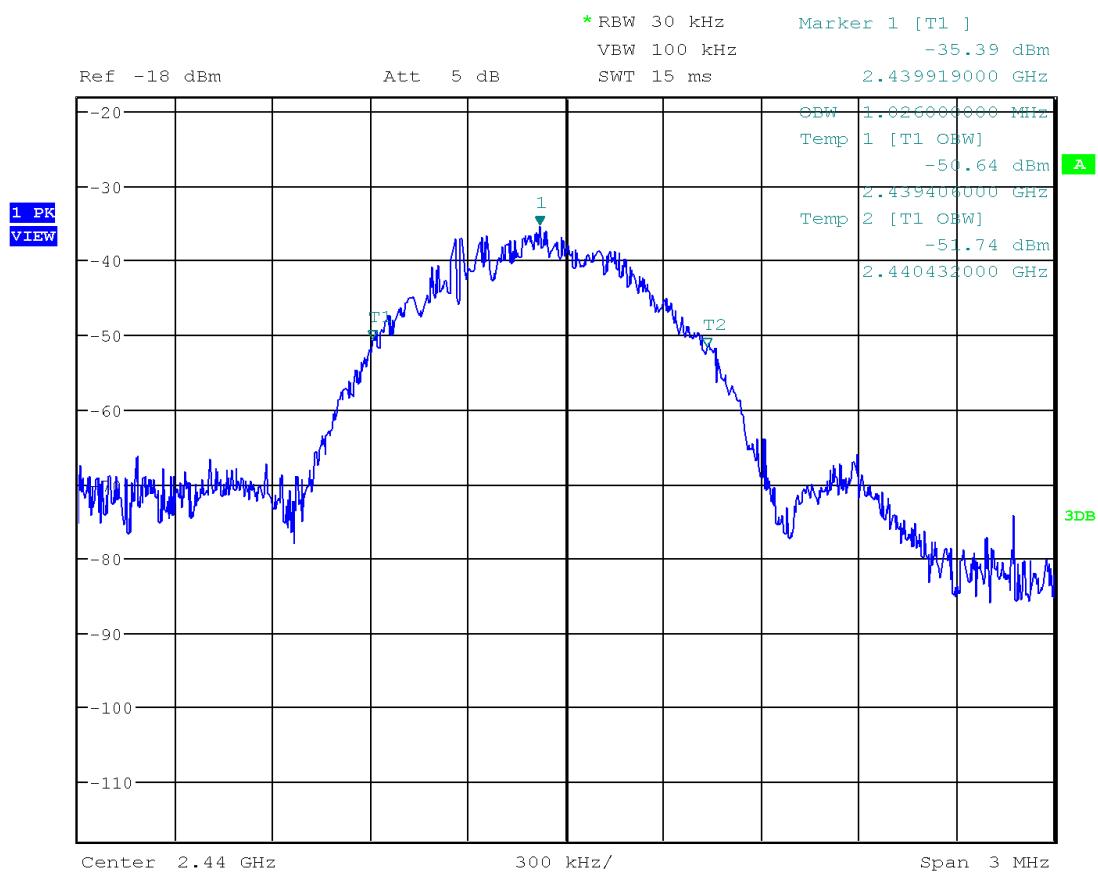
Date: 22.NOV.2023 14:01:44

Plot 1.4



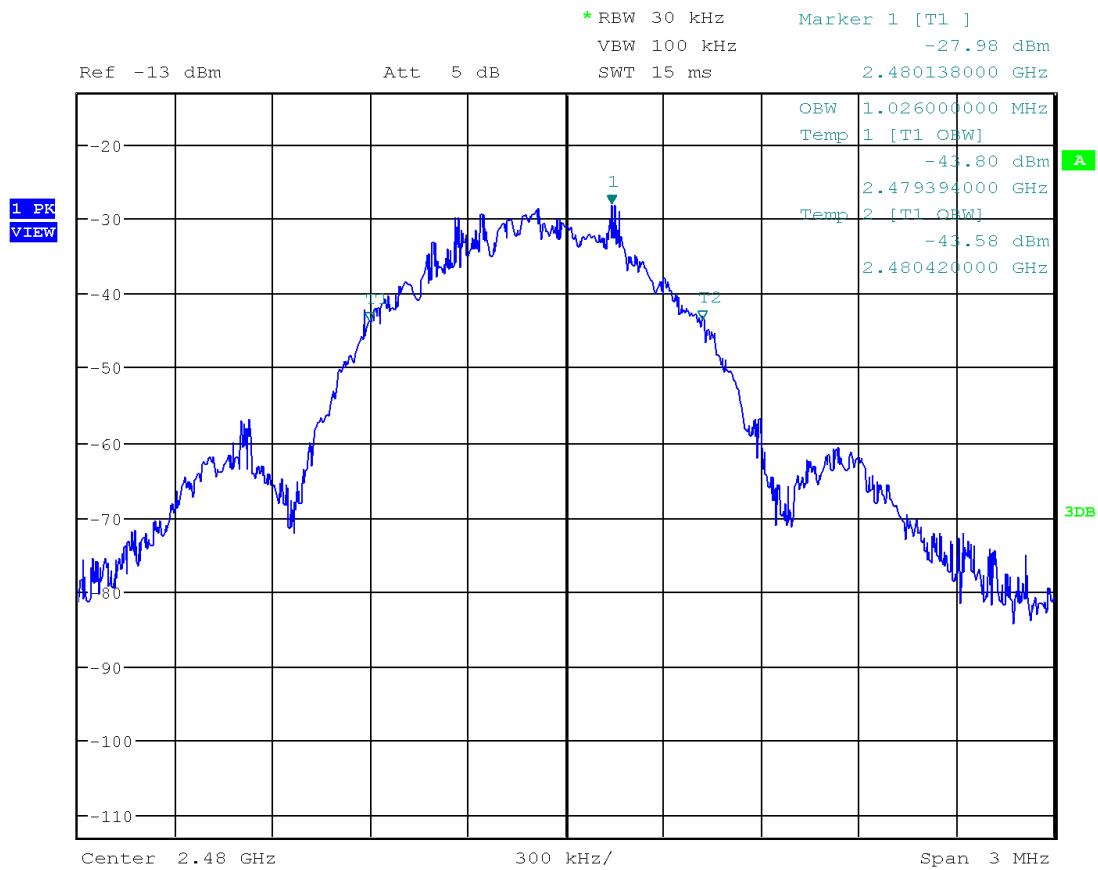
Date: 22.NOV.2023 12:35:06

Plot 1.5



Date: 22.NOV.2023 13:39:54

Plot 1.6



Date: 22.NOV.2023 14:02:54

Results	Complies
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4.2 Maximum Peak Output Power
FCC Rule: 15.247(b)(3); RSS-247, 5.4.d);

4.2.1 Requirement

For antennas with gains of 6 dBi or less, maximum allowed transmitter output is 1 watt or 30 dBm. For antennas with gains greater than 6 dBi, transmitter output level must be decreased appropriately, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2.2 Procedure

The procedure described in FCC Publication KDB 558074 D01 Meas Guidance v05r02 was used. Specifically, section 11.9.1.1 $\text{RBW} \geq \text{DTS}$ bandwidth in ANSI 63.10.

1. Set the $\text{RBW} \geq \text{DTS}$ Bandwidth
2. Set the $\text{VBW} \geq 3 \times \text{RBW}$
3. Set the span $\geq 3 \times \text{RBW}$
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max Hold
7. Allow trace to fully stabilize
8. Use peak marker function to determine the peak amplitude level.

Since the EUT has an internal Antenna that was not removable the Output Power was made with the EUT's antenna in place. The EUT was placed on a 1.5m table. The EUT was 3m away from the receiving horn antenna. The fundamental of the transmitter was maximized by varying the azimuth 0 to 360 degrees and the height was varied from 1 to 4 meters. The measurements were made with the receiving horn antenna in both Horizontal and Vertical Polarities on all 3 Axis (X, Y & Z) of the EUT. The worst-case emissions are reported below.

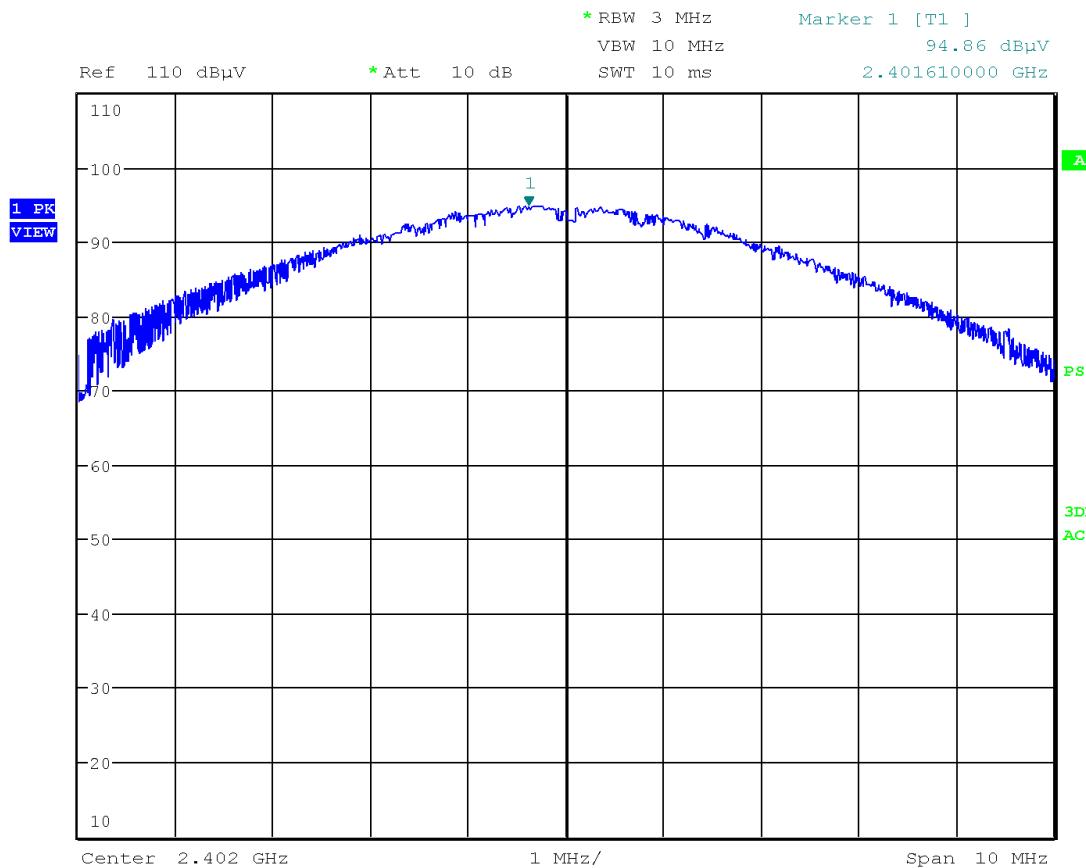
4.2.3 Test Result

Refer to the following plots 2.1 – 2.3 for the test details.

Frequency	EIRP (peak)		Plot
MHz	dBm	mW	
2402	-11.75	0.067	2.1
2440	-12.86	0.052	2.2
2480	-9.20	0.120	2.3

Tested By	Test Date	Results
Gabriel Carreon	November 28, 2023	Complies

Plot 2.1



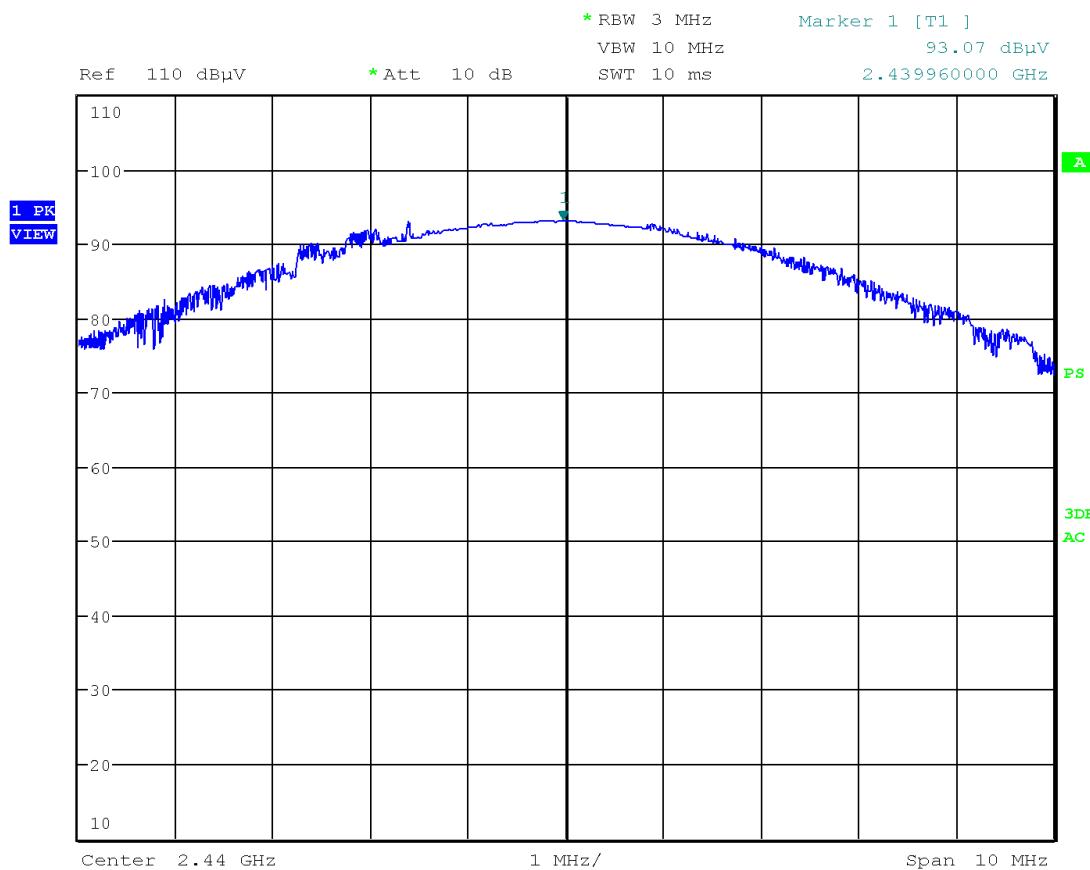
Date: 28.NOV.2023 07:56:37

Frequency MHz	Peak EIRP (dBm)	Raw FS @ 3m dB(μV/m)	Correction Factor dB	Corrected FS @ 3m dB(μV/m)
2402	-11.75	94.86	-10.7	84.16

EIRP was determined by utilizing the formula below:

$$\text{EIRP} = \text{Corrected FS} + 20 \times \text{LOG}(\text{measured distance}) - 104.77$$

Plot 2.2



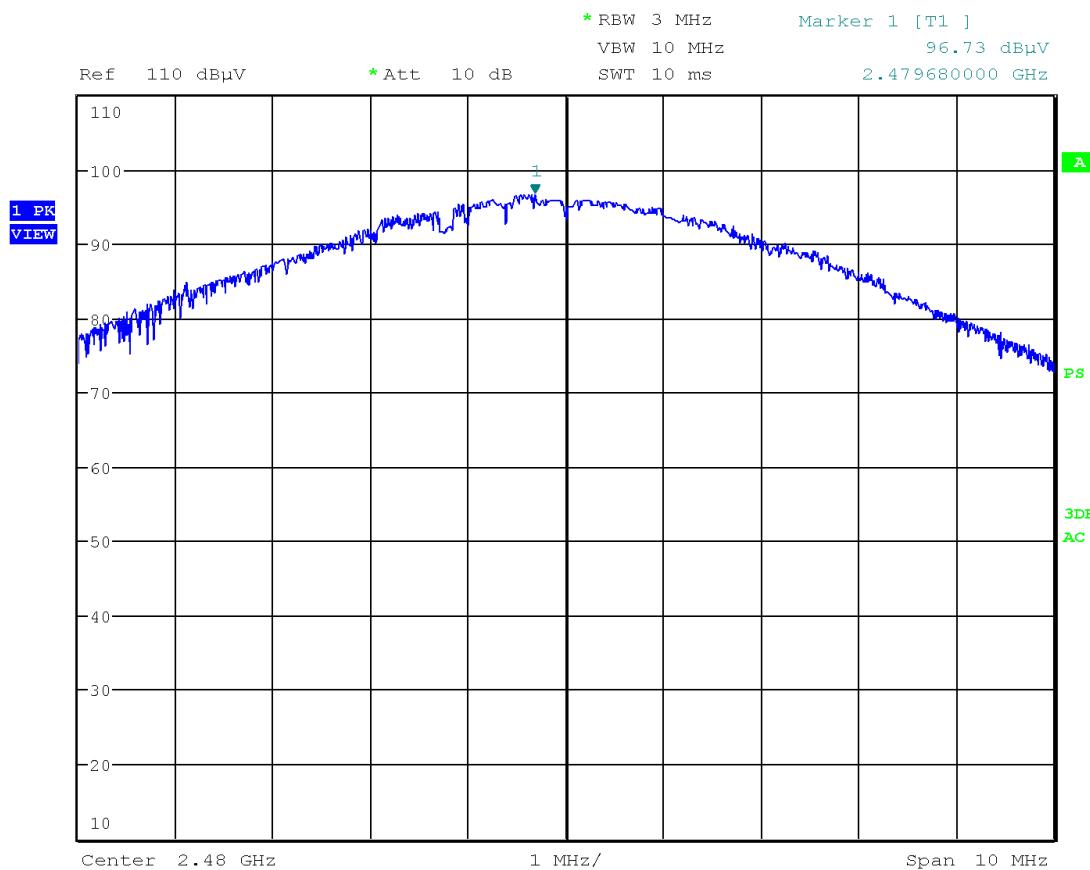
Date: 28.NOV.2023 08:06:02

Frequency MHz	Peak EIRP (dBm)	Raw FS @ 3m dB(μ V/m)	Correction Factor dB	Corrected FS @ 3m dB(μ V/m)
2440	-12.86	93.07	-10.7	82.37

EIRP was determined by utilizing the formula below:

$$\text{EIRP} = \text{Corrected FS} + 20 \times \text{LOG}(\text{measured distance}) - 104.77$$

Plot 2.3



Date: 28.NOV.2023 08:24:51

Frequency MHz	Peak EIRP (dBm)	Raw FS @ 3m dB(μ V/m)	Correction Factor dB	Corrected FS @ 3m dB(μ V/m)
2480	-9.20	96.73	-10.7	86.03

EIRP was determined by utilizing the formula below:

$$\text{EIRP} = \text{Corrected FS} + 20 \cdot \text{LOG}(\text{measured distance}) - 104.77$$

Results	Complies
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4.3 Maximum Power Spectral Density
 FCC: 15.247 (e); RSS-247, 5.2.b);

4.3.1 Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna should not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.3.2 Procedure

The procedure described in FCC Publication KDB 558074 D01 Meas Guidance v05r02, specifically section 11.10.2 Method PKPSD (peak PSD) of ANSI 63.10.

Since the EUT has an internal Antenna that was not removable the measurements were made with the EUT's antenna in place. The EUT was placed on a 1.5m table. The EUT was 3m away from the receiving horn antenna. The fundamental of the transmitter was maximized by varying the azimuth 0 to 360 degrees and the height was varied from 1 to 4 meters. The measurements were made with the receiving horn antenna in both Horizontal and Vertical Polarities on all 3 Axis (X, Y & Z) of the EUT. The worst-case emissions are reported below.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the *DTS bandwidth*.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

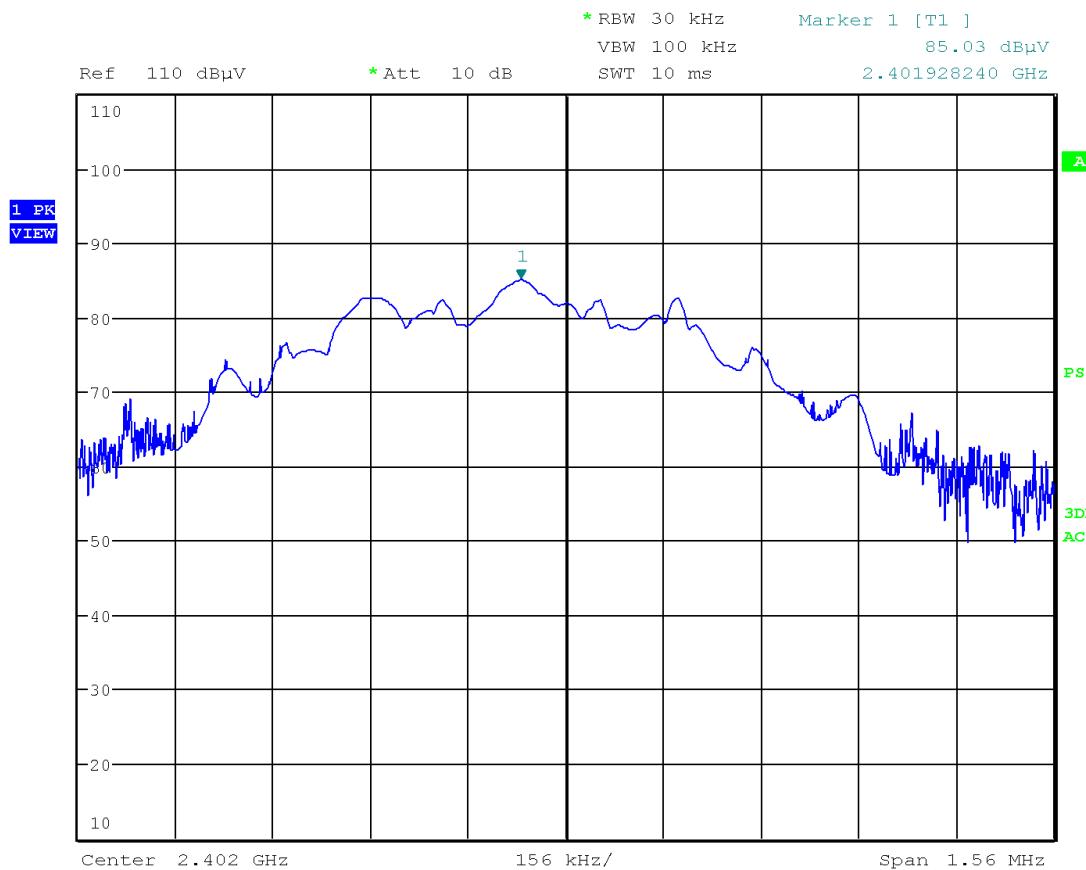
4.3.3 Test Result

Refer to the following plots for the test result

Frequency, MHz	Maximum Power Spectral Density EIRP, dBm	Maximum Power Spectral Density Limit, dBm	Plot
2402	-31.60	8.0	3.1
2440	-28.07	8.0	3.2
2480	-28.47	8.0	3.3

Tested By	Test Date	Results
Gabriel Carreon	November 28, 2023	Complies

Plot 3.1



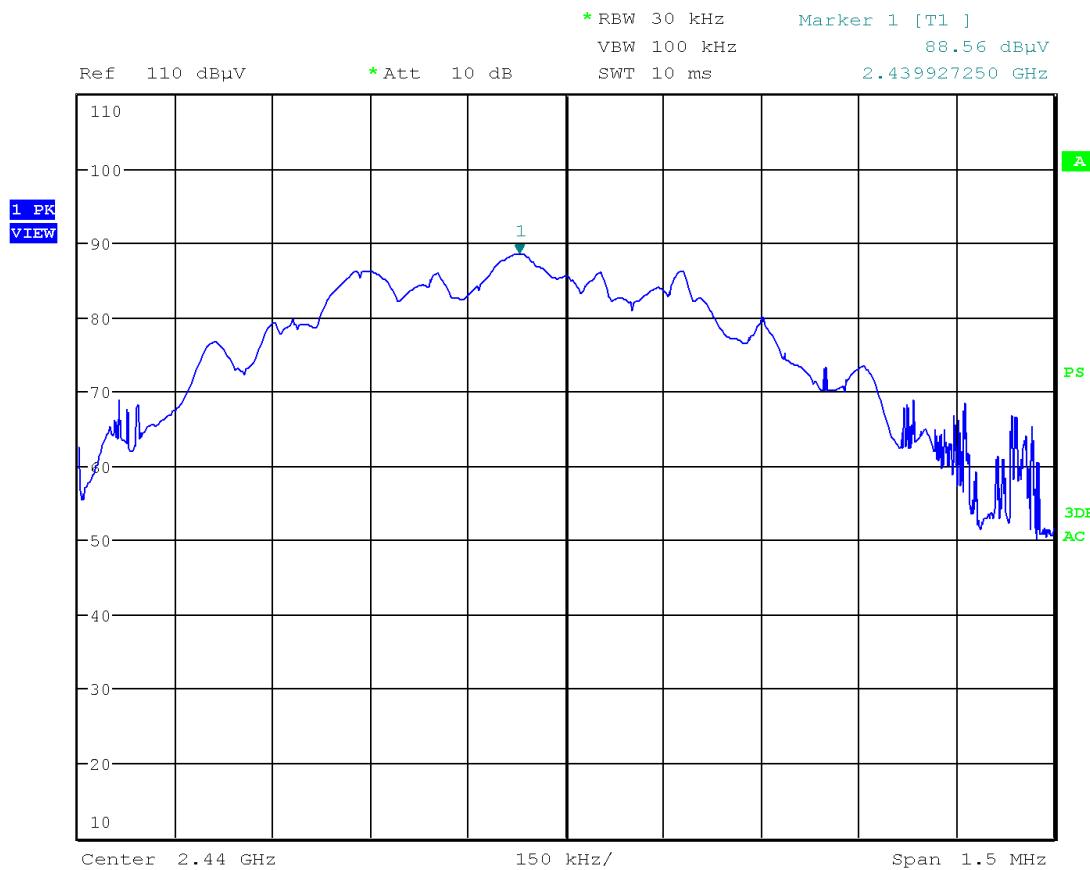
Date: 28.NOV.2023 07:39:34

Frequency MHz	PSD EIRP (dBm)	Raw FS @ 3m dB(μ V/m)	Correction Factor dB	Corrected FS @ 3m dB(μ V/m)
2402	-31.60	85.03	-10.7	74.33

EIRP was determined by utilizing the formula below:

$$\text{EIRP} = \text{Corrected FS} + 20 \times \text{LOG}(\text{measured distance}) - 104.77$$

Plot 3.2



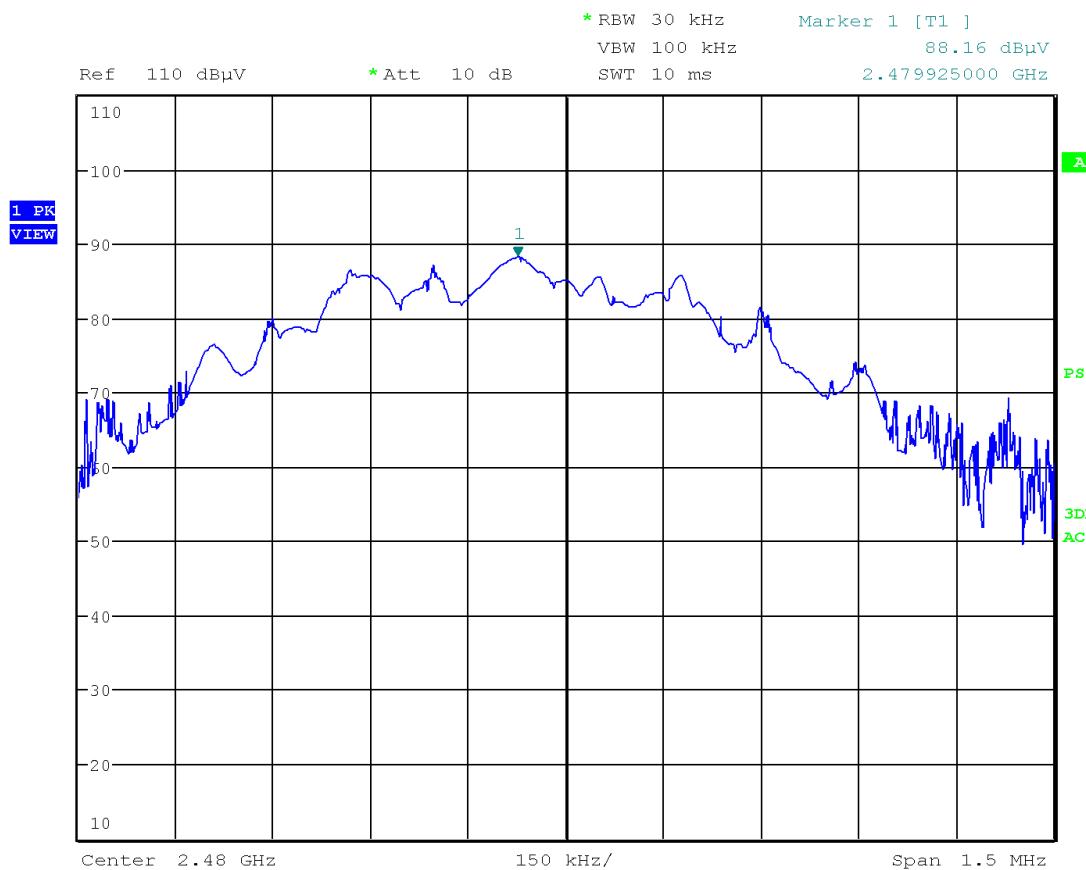
Date: 28.NOV.2023 08:06:55

Frequency MHz	PSD EIRP (dBm)	Raw FS @ 3m dB(μ V/m)	Correction Factor dB	Corrected FS @ 3m dB(μ V/m)
2440	-28.07	88.56	-10.7	77.86

EIRP was determined by utilizing the formula below:

$$\text{EIRP} = \text{Corrected FS} + 20 \cdot \text{LOG}(\text{measured distance}) - 104.77$$

Plot 3.3



Date: 28.NOV.2023 08:25:58

Frequency MHz	PSD EIRP (dBm)	Raw FS @ 3m dB(μ V/m)	Correction Factor dB	Corrected FS @ 3m dB(μ V/m)
2480	-28.47	88.16	-10.7	77.46

EIRP was determined by utilizing the formula below:

$$\text{EIRP} = \text{Corrected FS} + 20 \cdot \text{LOG}(\text{measured distance}) - 104.77$$

4.4 Out of Band Antenna Emission
FCC: 15.247(d); RSS-247, 5.5;

4.4.1 Requirement

In any 100 kHz bandwidth outside the EUT pass-band, the RF power shall be below the maximum in-band 100 kHz emissions by at least 20 dB (if peak power of in-band emission is measured) or 30 dB (if average power of in-band emission is measured).

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)

4.4.2 Procedure

The procedure described in FCC Publication KDB 558074 D01 Meas Guidance v05r02, specifically section 11.11 DTS Emissions in non-restricted frequency bands of ANSI 63.10.

Since the EUT has an internal Antenna that was not removable the measurements were made with the EUT's antenna in place. The EUT was placed on a 1.5m table. The EUT was 3m away from the receiving horn antenna. The fundamental of the transmitter was maximized by varying the azimuth 0 to 360 degrees and the height was varied from 1 to 4 meters. The measurements were made with the receiving horn antenna in both Horizontal and Vertical Polarities on all 3 Axis (X, Y & Z) of the EUT. The worst-case emissions are reported below.

1. Set the RBW = 100 kHz.
2. Set the VBW \geq 3 x RBW.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

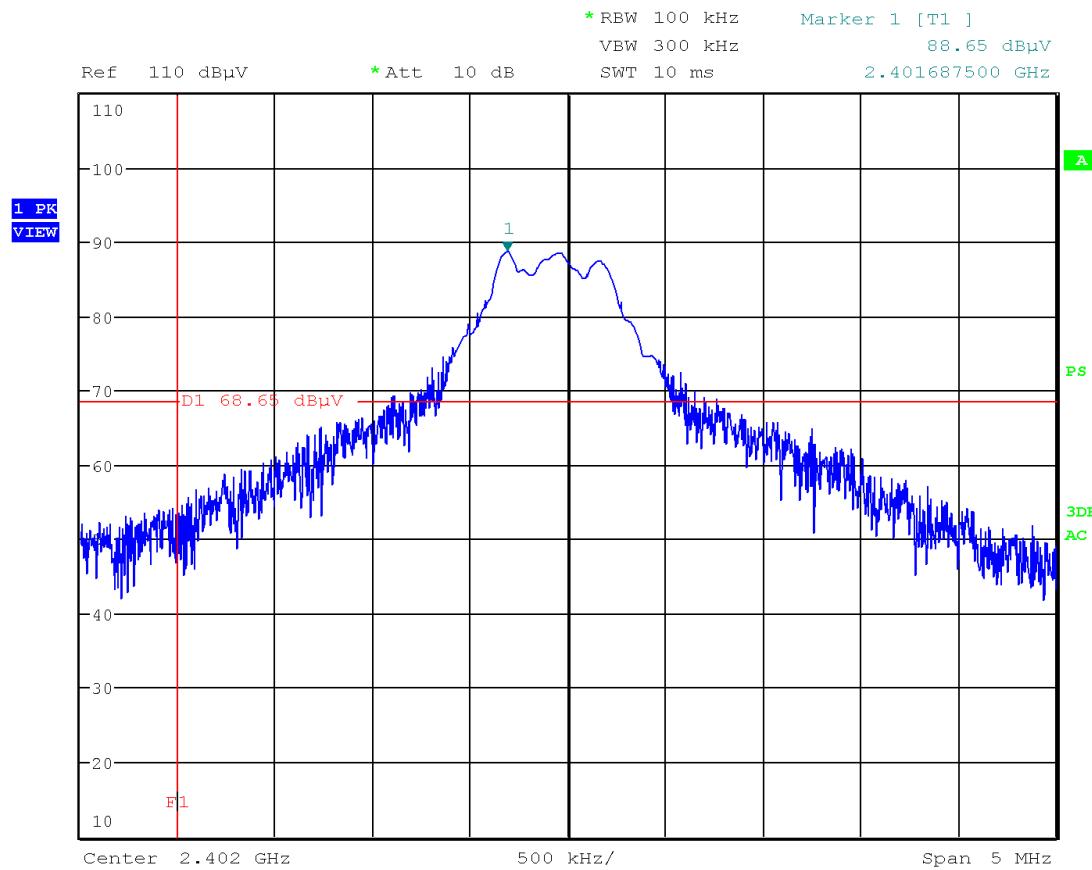
The unwanted emissions were measured from 30 MHz to 25 GHz. Plots below are corrected for cable loss and then compared to the limits.

4.4.3 Test Result

Refer to the following plots 4.1 – 4.5 for unwanted emissions. The plot shows -20dB attenuation limit line.

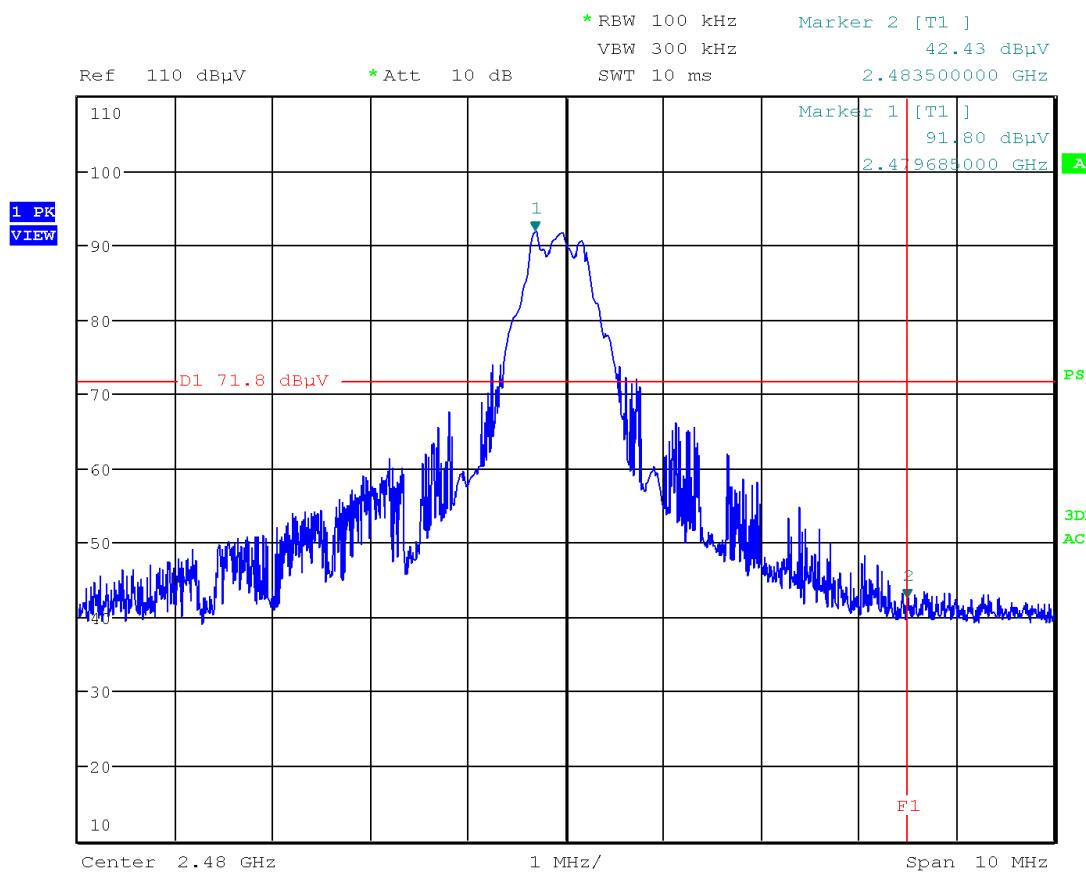
Tested By	Test Date	Results
Gabriel Carreon	August 11, 2021	Complies

Tx @ Low Channel, 2400 MHz Band Edge
Plot 4.1



Date: 28.NOV.2023 07:44:10

Tx @ High Channel, 2483.5 MHz Band Edge
Plot 4.2



Date: 28.NOV.2023 08:30:33

Results

Complies

4.5 Transmitter Radiated Emissions

FCC Rules: 15.247(d), 15.209, 15.205; RSS-247, 5.5;

4.5.1 Requirement

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

For out of band radiated emissions (except for frequencies in restricted bands), in any 100 kHz bandwidths outside the EUT pass-band, the RF power shall be at least 20dB (peak) or 30 dB (average) below that of the maximum in-band 100 kHz emissions.

4.5.2 Procedure

Radiated emission measurements were performed from 9 kHz to 26.5 GHz according to the procedure described in ANSI C63.10: 2013. Spectrum Analyzer Resolution Bandwidth is 200Hz or greater for frequencies 9kHz to 30MHz, 100 kHz or greater for frequencies 30 MHz to 1000 MHz, 1 MHz for frequencies above 1000 MHz. Above 1000 MHz Peak and Average measurements were performed.

The EUT is placed on a plastic turntable that is 80 cm in height for below 1000MHz and 1.5m in height for above 1GHz. If the EUT attaches to peripherals, they are connected and operational (as typical as possible). During testing, all cables were manipulated to produce worst-case emissions. The signal is maximized through rotation. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters.

Radiated emissions are taken at 3 meters for frequencies above 1 GHz and at 10 meters for frequencies below 1 GHz.

Measurements made from 1 GHz to 18GHz had a 2.4-2.5GHz notch filter in place. A preamp was used from 9kHz to 26.5GHz.

All measurements were made with a Peak Detector and compared to QP limits for 30MHz – 1GHz and Average limits for 1GHz – 26.5GHz.

Correlation measurements were performed below 30MHz between 10m ALSE and Open Field site according to FCC KDB 414788 D01 Radiated Test Site v01r01 section 2. All readings were within the acceptable tolerance.

The measurements were made on both ring sizes and on 3 Axis (X, Y & Z) of the EUT. The worst-case emissions are reported below.

4.5.3 Field Strength Calculation

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF – AG; if measurement is performed at a distance other than specified in the rule, a Distance Correction Factor (DCF) shall be added.

Where FS = Field Strength in dB(μ V/m)

RA = Receiver Amplitude (including preamplifier) in dB(μ V); AF = Antenna Factor in dB(1/m)

CF = Cable Attenuation Factor in dB; AG = Amplifier Gain in dB

Assume a receiver reading of 52.0 dB(μ V) is obtained. The antennas factor of 7.4 dB(1/m) and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving field strength of 32 dB(μ V/m). This value in dB(μ V/m) was converted to its corresponding level in μ V/m.

RA = 52.0 dB(μ V)

AF = 7.4 dB(1/m)

CF = 1.6 dB

AG = 29.0 dB

FS = 52.0+7.4+1.6-29.0 = 32 dB(μ V/m).

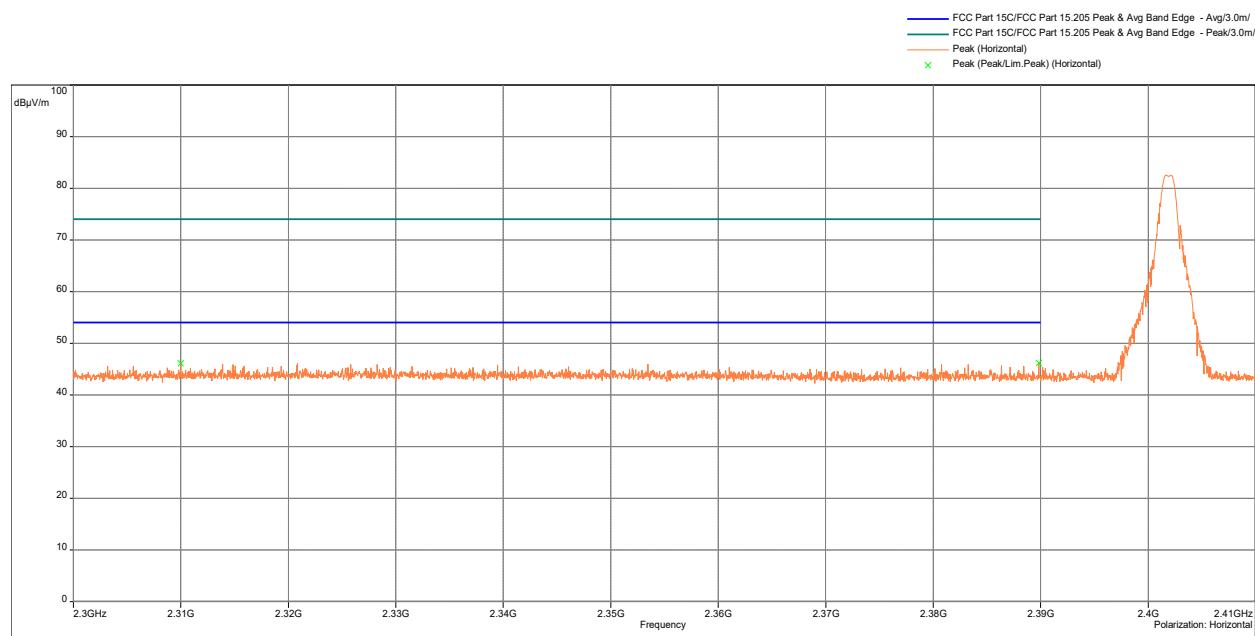
Level in μ V/m = Common Antilogarithm [(32 dB μ V/m)/20] = 39.8 μ V/m.

4.5.4 Test Results

All testing in this section were performed by radiated measurements.

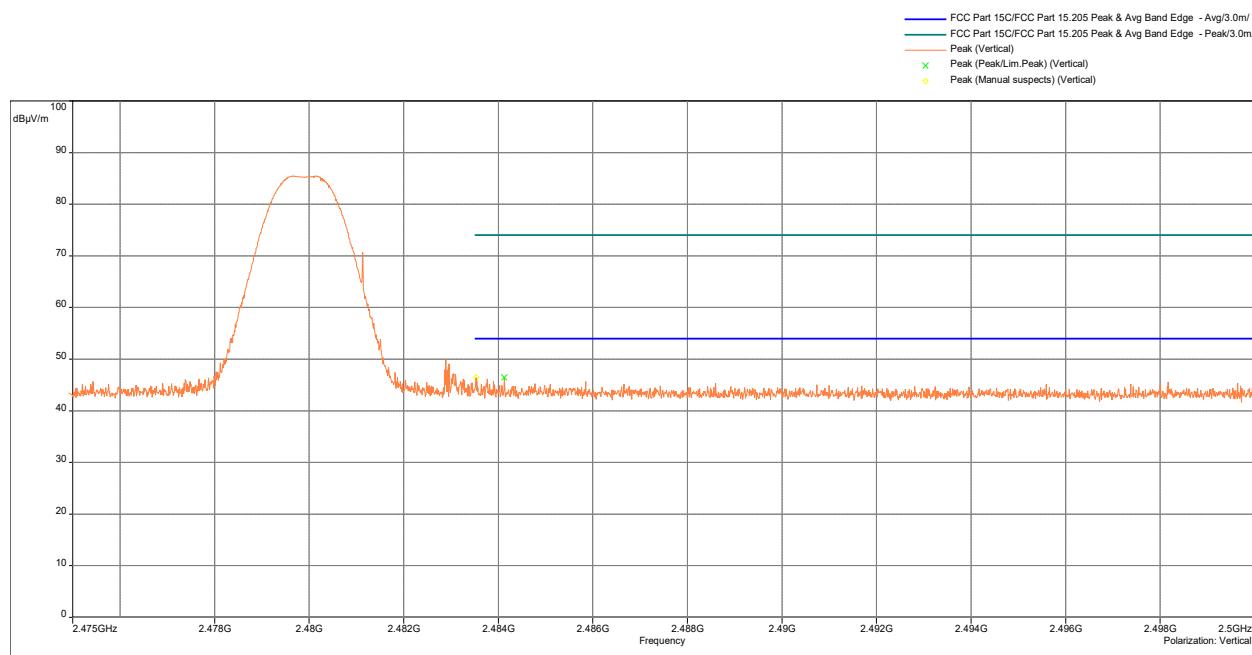
Tested By	Test Date	Results
Gabriel Carreon	November 20 – 27, 2023	Complies

Test Results: 15.209/15.205 Radiated Restricted Band Emissions

 Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
 2310–2390 MHz, Peak Scan with Average & Peak Limit


Freq. MHz	Peak @3m dB(uV/m)	Avg Limit dB(µV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2390.000	46.16	54.00	-7.84	3.49	288.5	Horizontal	32.38

**Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
2483.5–2500 MHz, Peak Scan with Avg & Peak Limit**



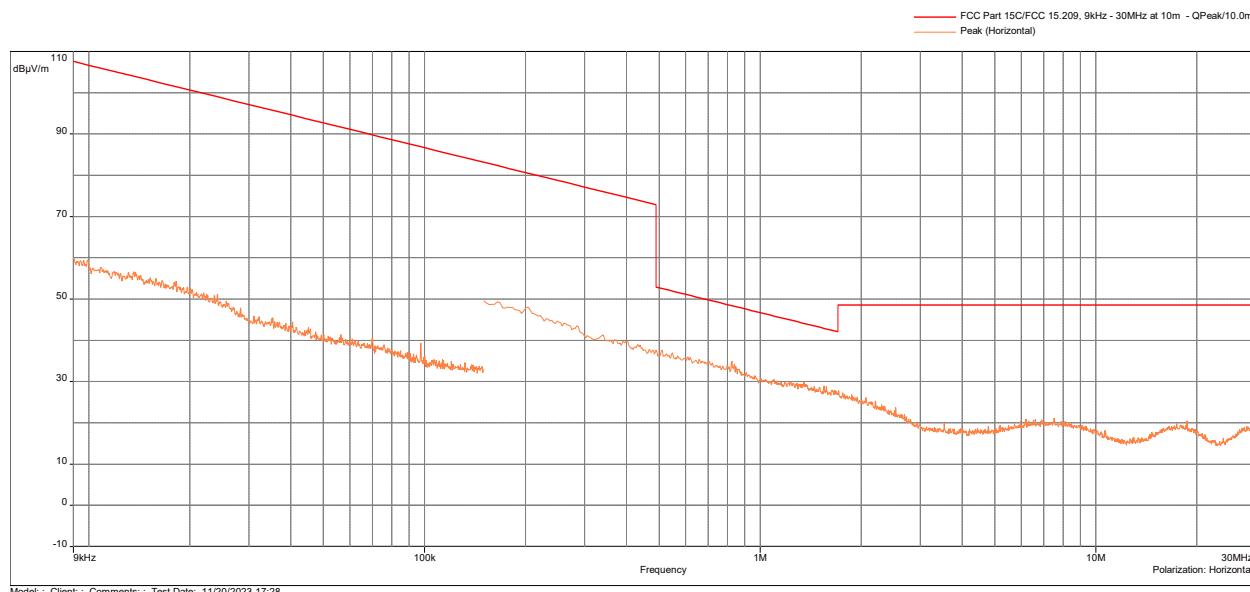
Freq. MHz	Avg @3m dB(μV/m)	Avg Limit dB(μV/m)	Margin dB	Height m	Azimuth deg	Polarity	Correction dB
2483.5	46.42	54.00	-7.58	1.56	346.5	Vertical	32.72

Results	Complies
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Out-of-Band Radiated Spurious Emissions

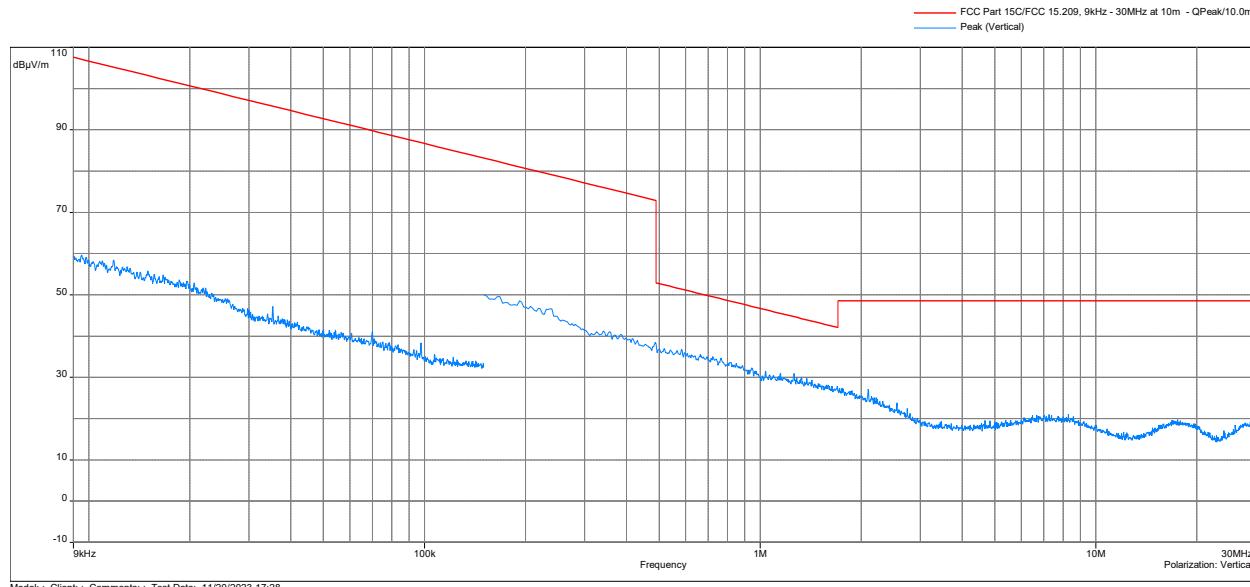
Test Results: 15.209 Radiated Spurious Emissions Normal Mode @ Battery, Low Channel Tx at 2402MHz

Radiated Spurious Emissions 9kHz - 30 MHz Parallel Antenna Polarization



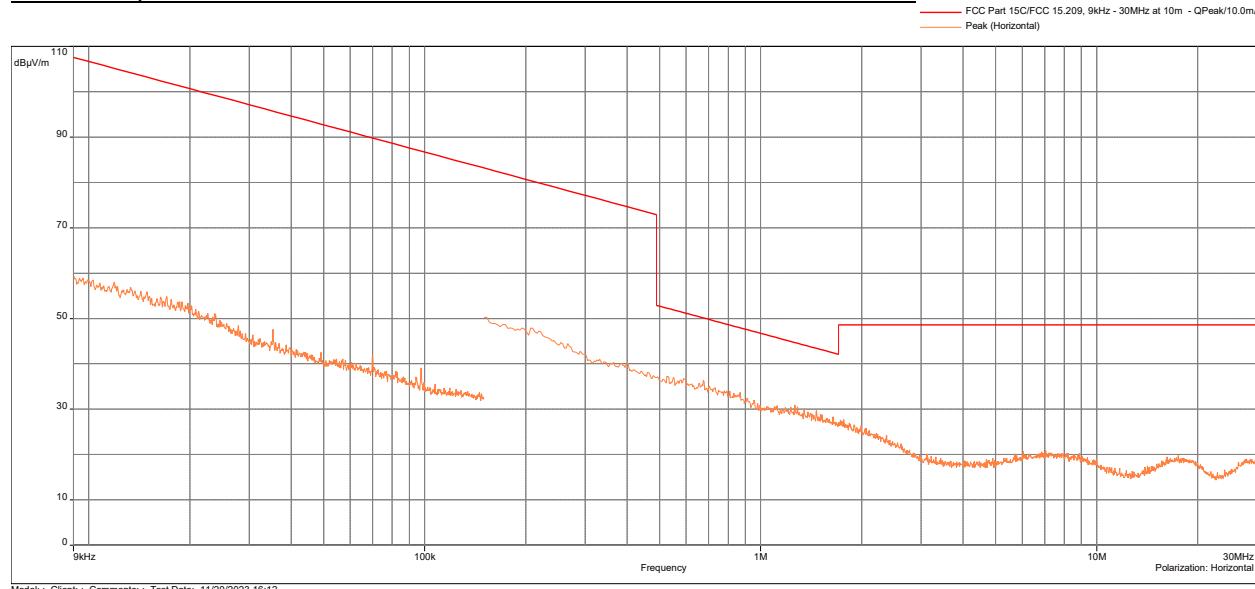
Model: ; Client: ; Comments: ; Test Date: 11/20/2023 17:28

Radiated Spurious Emissions 9kHz - 30 MHz Perpendicular Antenna Polarization



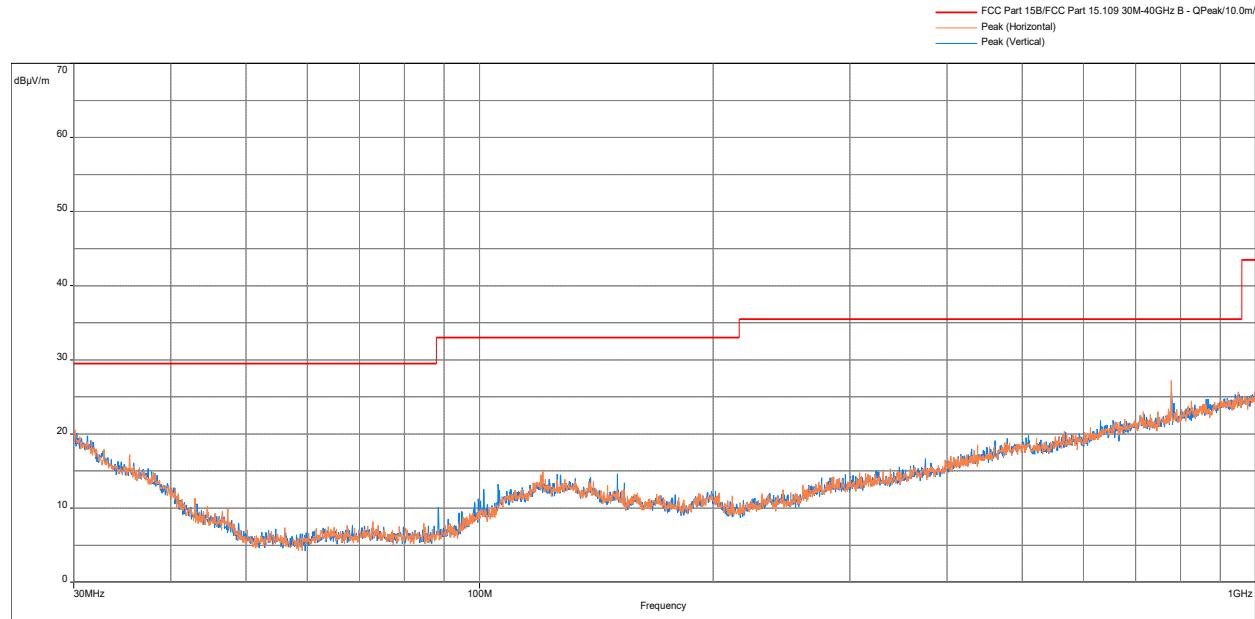
Model: ; Client: ; Comments: ; Test Date: 11/20/2023 17:28

Radiated Spurious Emissions 9kHz - 30 MHz Horizontal Antenna Polarization



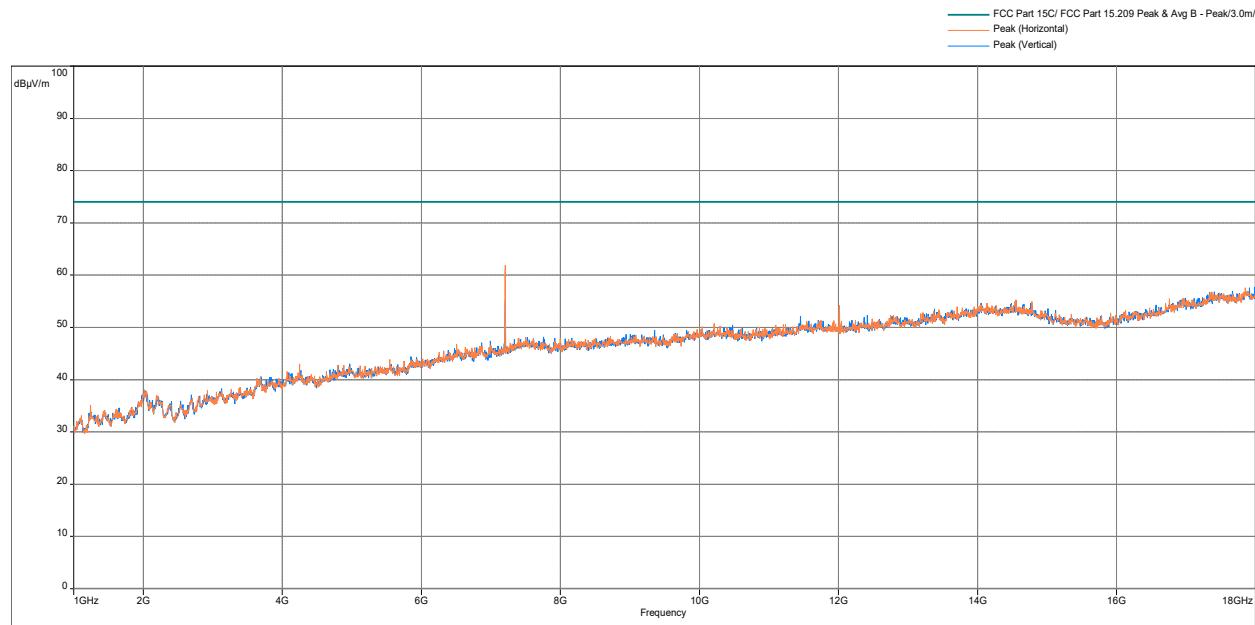
Model: ; Client: ; Comments: ; Test Date: 11/20/2023 16:12

Radiated Spurious Emissions 30 MHz - 1000 MHz



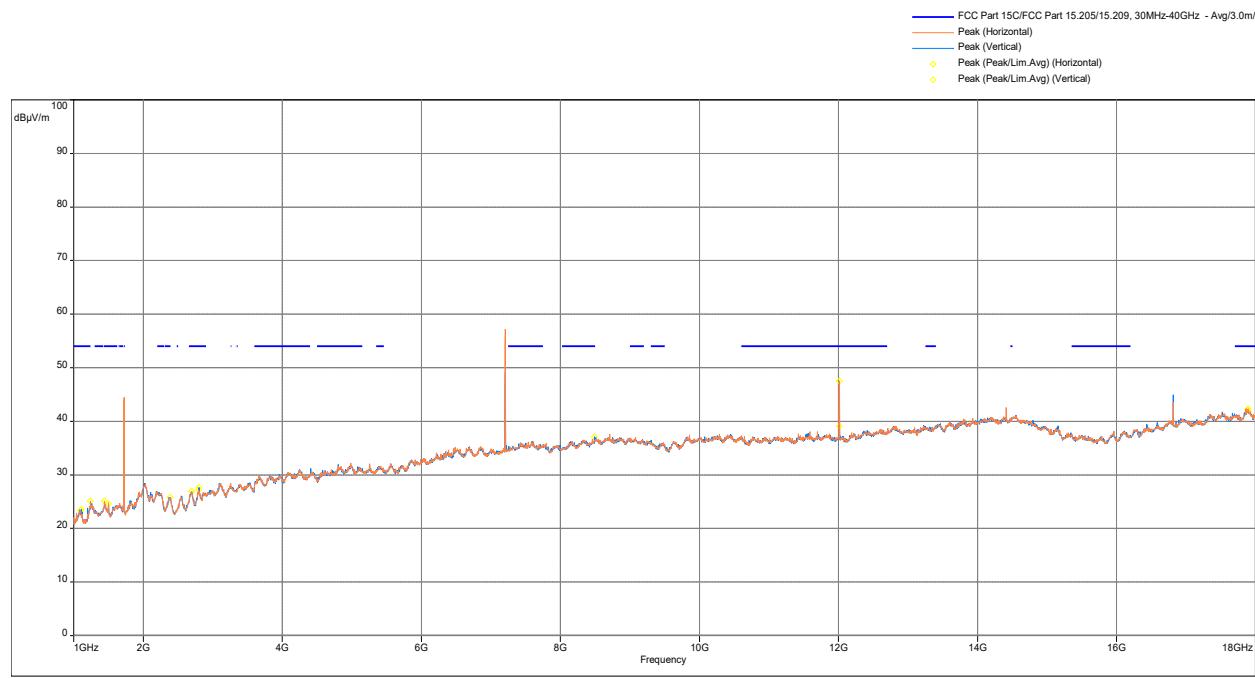
Model: ; Client: ; Comments: ; Test Date: 11/20/2023 12:59

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



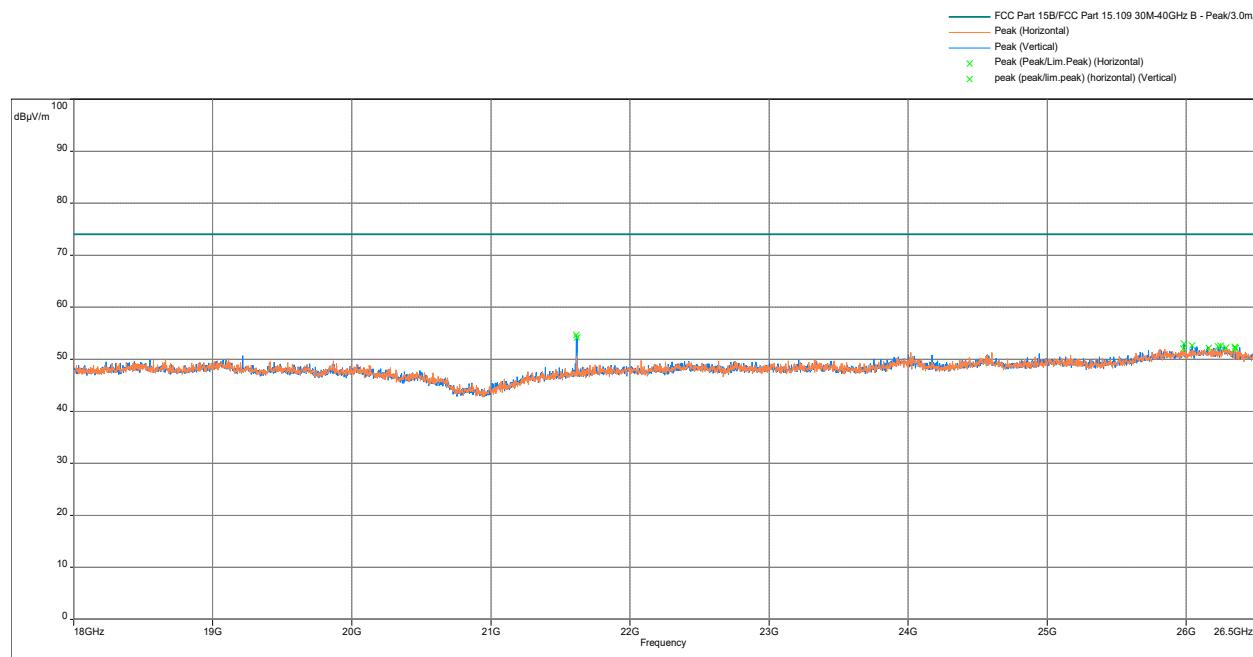
Model: ; Client: ; Comments: ; Test Date: 11/22/2023 16:11

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Average Limit



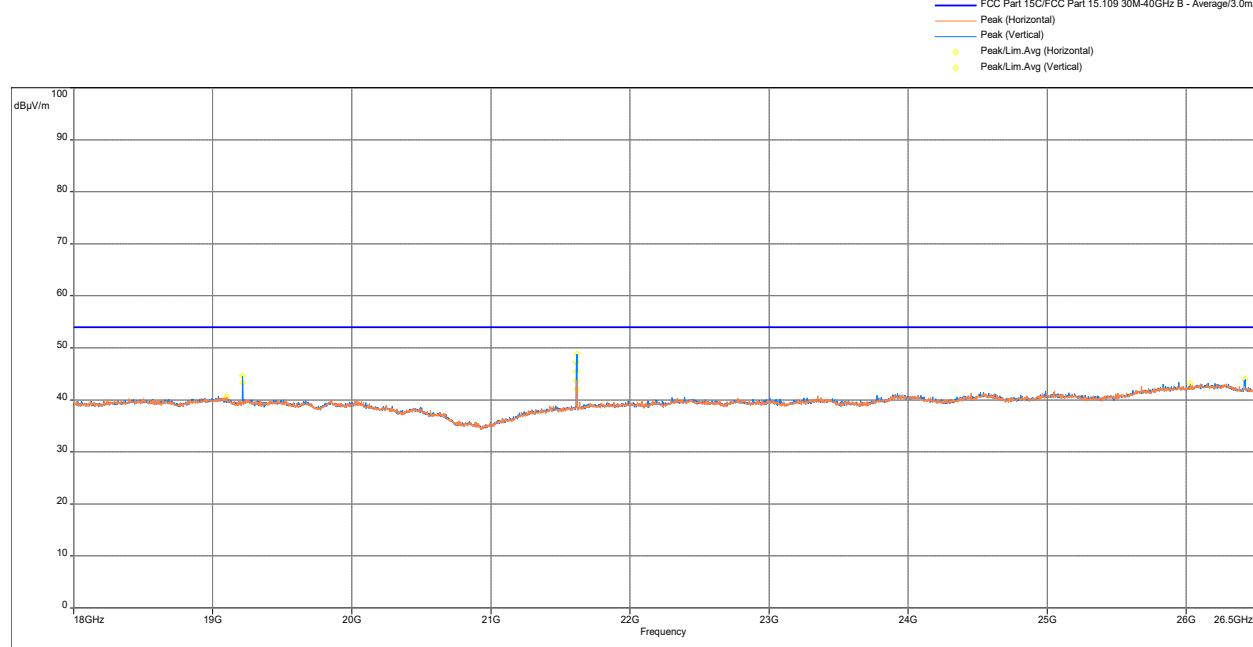
Model: ; Client: ; Comments: ; Test Date: 11/22/2023 16:05

Radiated Spurious Emissions 18 – 26.5 GHz, Peak Scan vs Peak Limit



Model: ; Client: ; Comments: ; Test Date: 11/27/2023 05:48

Radiated Spurious Emissions 18 – 26.5 GHz, Average Scan vs Average Limit



Model: ; Client: ; Comments: ; Test Date: 11/27/2023 05:55

Test Results: 15.209 Radiated Spurious Emissions Normal Mode @ Battery, Low Channel Tx at 2402MHz

Frequency (MHz)	QPeak@ 10m (dB μ V/m)	Lim. QPeak @10m (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Comment	Correction (dB)
778.48	27.20	35.50	-8.30	1.01	199.25	Horizontal	-2.37
30.13	20.59	29.50	-8.91	1.99	275.00	Horizontal	-5.99
30.10	20.15	29.50	-9.35	1.99	0.00	Vertical	-5.98
779.03	25.85	35.50	-9.65	1.99	87.00	Vertical	-2.38
949.92	25.68	35.50	-9.82	1.99	33.25	Horizontal	0.50
948.33	25.50	35.50	-10.00	1.01	327.50	Horizontal	0.47

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Peak @3m (dB μ V/m)	Lim. Peak @3m (dB μ V/m)	Margin dB	Height (m)	Angle (°)	Comment	Correction (dB)
17984.13	57.70	74	-16.30	1.51	75.75	Vertical	13.84
17850.40	57.59	74	-16.41	1.51	349.25	Horizontal	13.88
12008.63	54.20	74	-19.80	2.49	36.00	Horizontal	7.09
21615.05	54.69	74	-19.31	1.49	319.00	Vertical	-3.41
21619.58	54.19	74	-19.81	1.49	319.00	Vertical	-3.41
25984.62	53.03	74	-20.97	1.49	359.75	Vertical	2.89

Note: Correction = AF + CF - Preamp

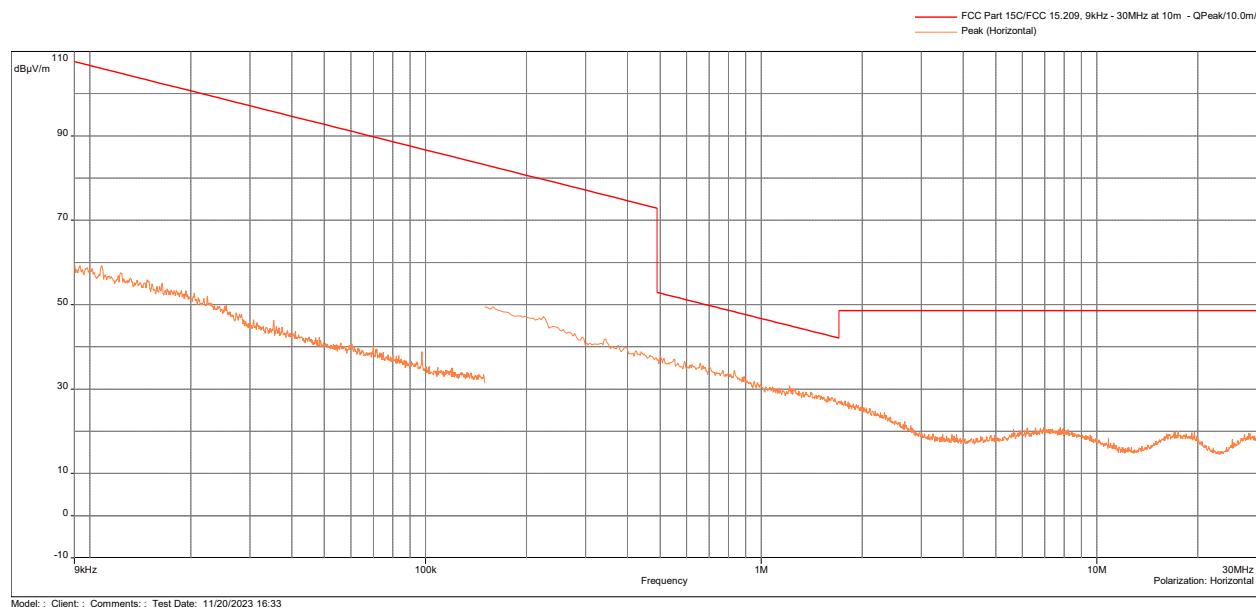
Frequency (MHz)	Ave @3m (dB μ V/m)	Lim. Ave @3m (dB μ V/m)	Margin dB	Height (m)	Angle (°)	Comment	Correction (dB)
12010.90	47.58	54	-6.42	2.49	35.50	Horizontal	7.08
21619.58	45.24	54	-8.76	1.51	307.75	Vertical	-3.41
21615.05	44.32	54	-9.68	1.51	252.00	Horizontal	-3.41
26084.63	43.05	54	-10.95	1.51	299.00	Horizontal	2.93
26200.23	42.97	54	-11.03	1.51	108.50	Vertical	2.67
21617.60	42.52	54	-11.48	1.51	252.00	Horizontal	-3.41

Note: Correction = AF + CF - Preamp

Results	Complies
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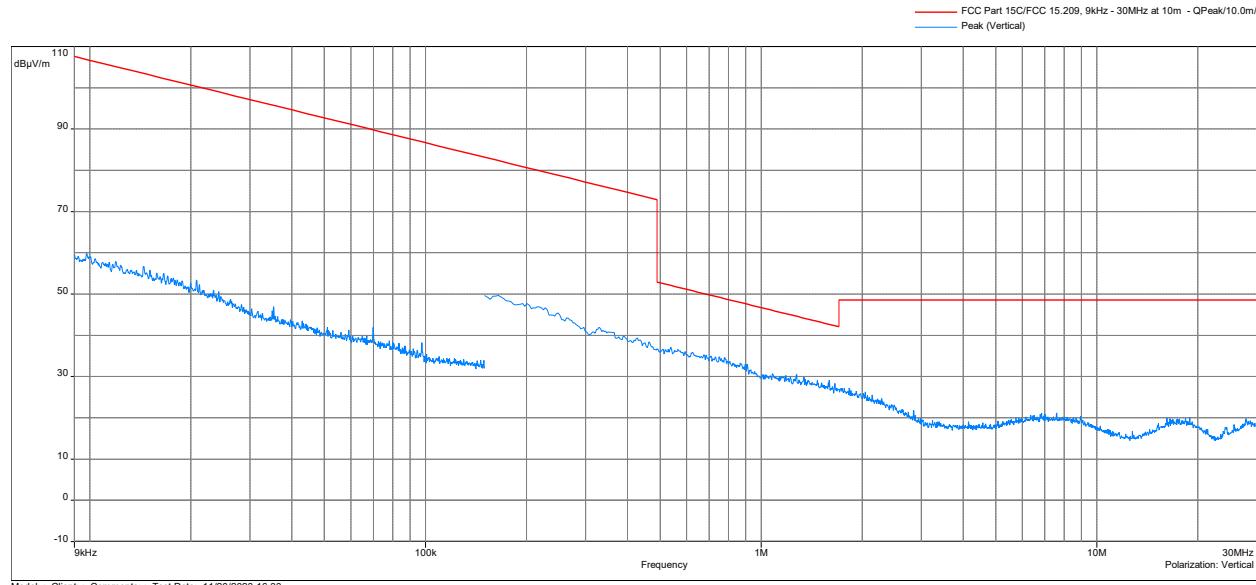
Test Results: 15.209 Radiated Spurious Emissions Charging Mode @ 120V 60Hz, Low Channel Tx at 2402MHz

Radiated Spurious Emissions 9kHz - 30 MHz Parallel Antenna Polarization



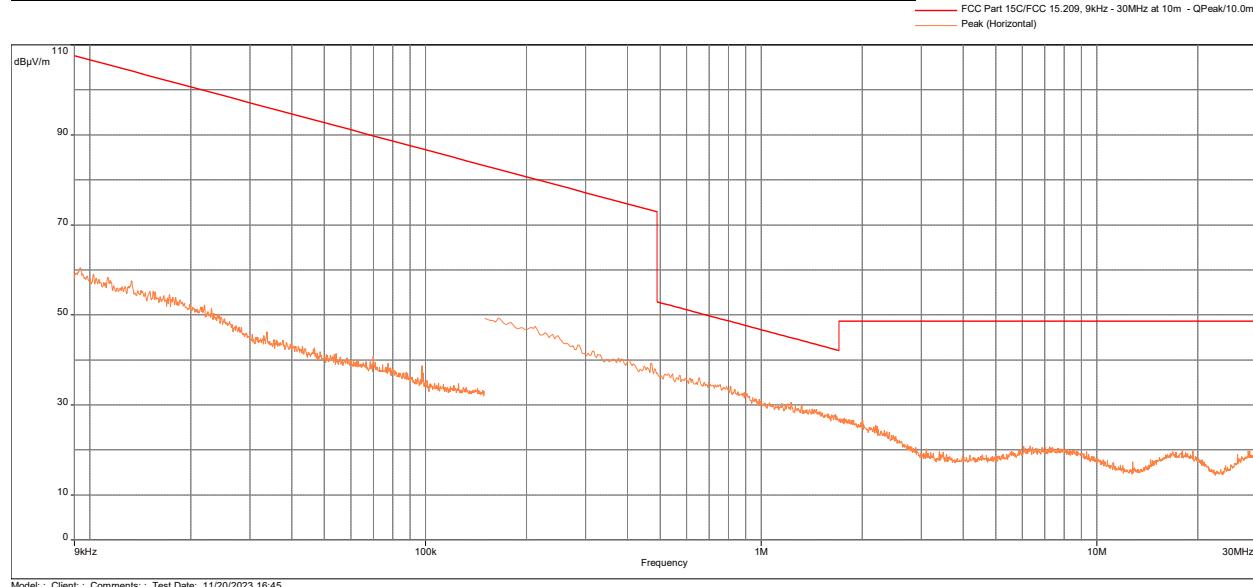
Model: ; Client: ; Comments: ; Test Date: 11/20/2023 16:33

Radiated Spurious Emissions 9kHz - 30 MHz Perpendicular Antenna Polarization



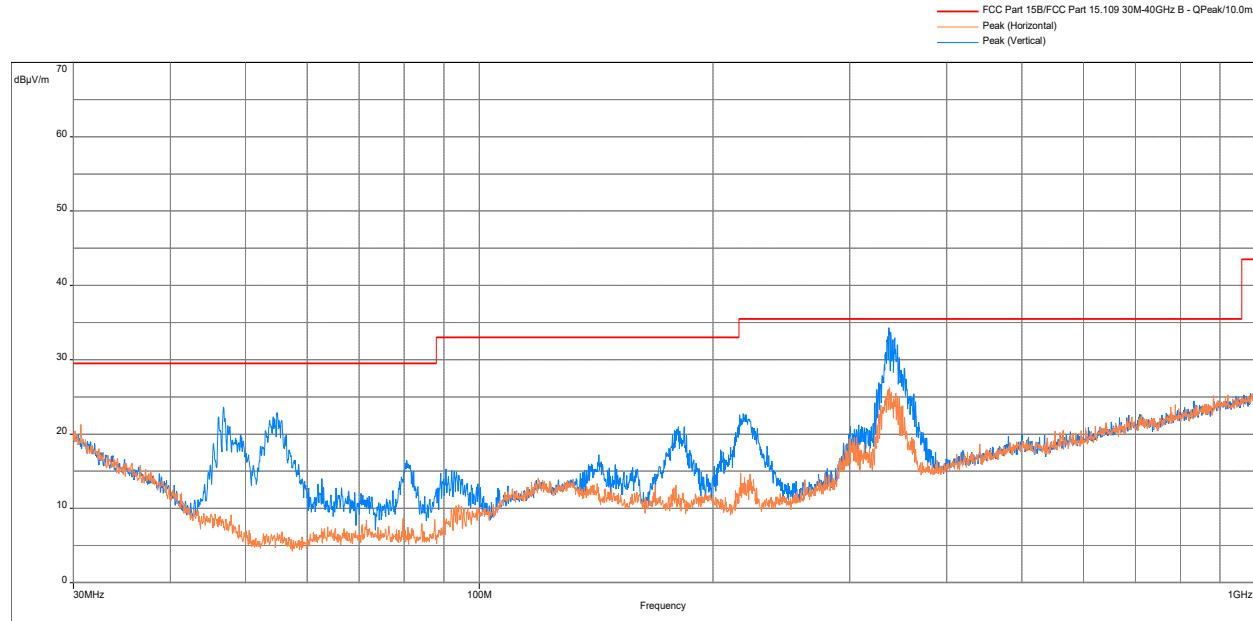
Model: ; Client: ; Comments: ; Test Date: 11/20/2023 16:33

Radiated Spurious Emissions 9kHz - 30 MHz Horizontal Antenna Polarization



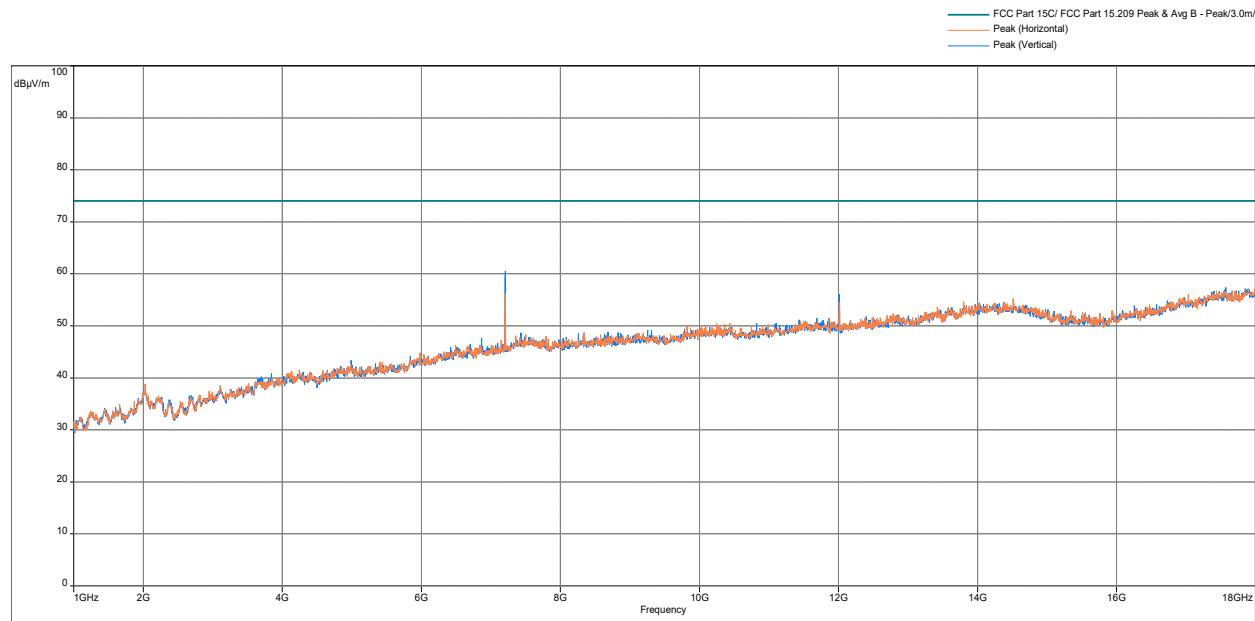
Model: ; Client: ; Comments: ; Test Date: 11/20/2023 16:45

Radiated Spurious Emissions 30 MHz - 1000 MHz

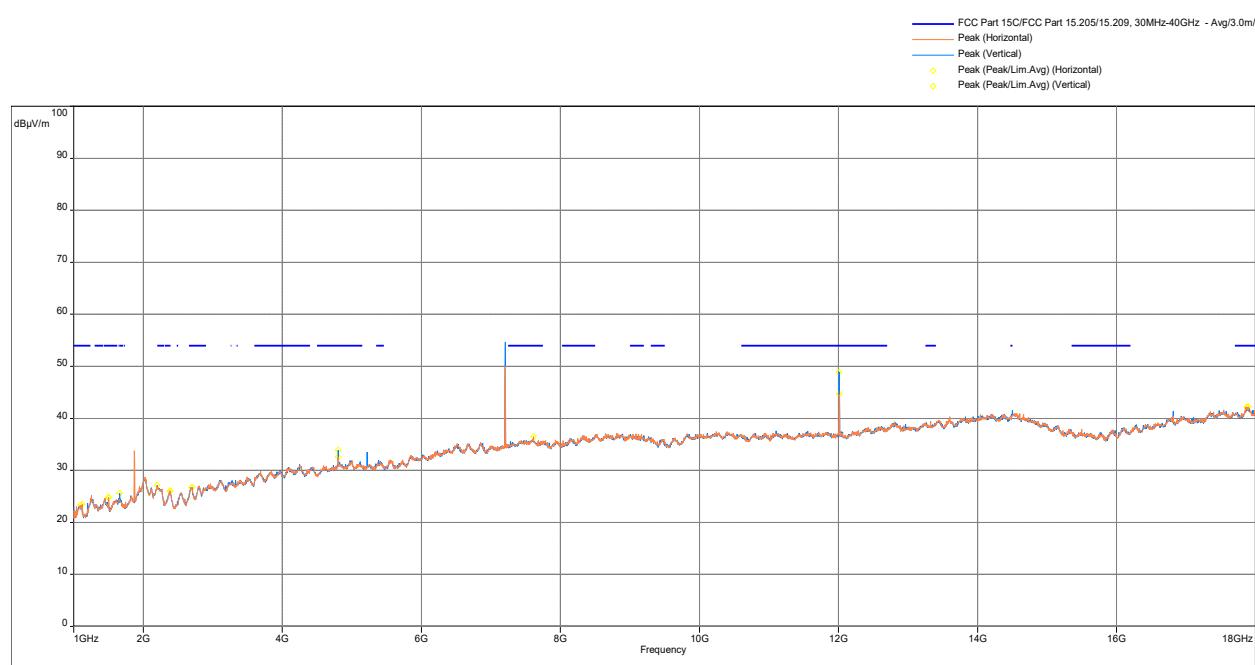


Model: ; Client: ; Comments: ; Test Date: 11/20/2023 14:39

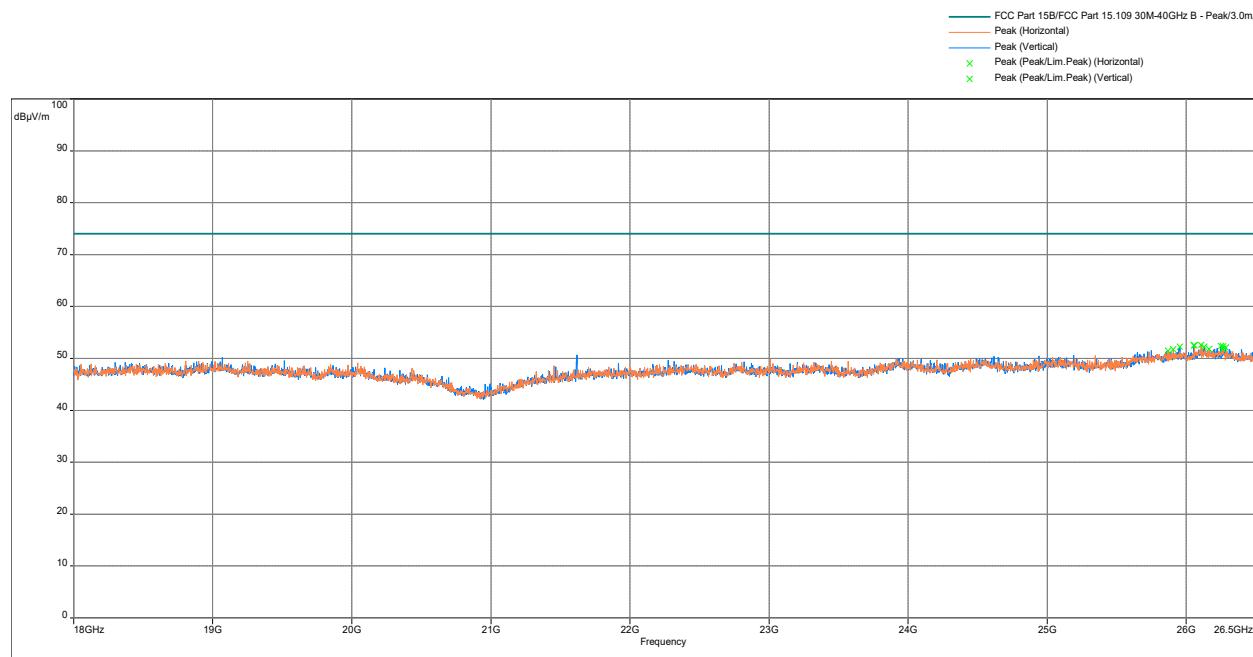
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Average Limit

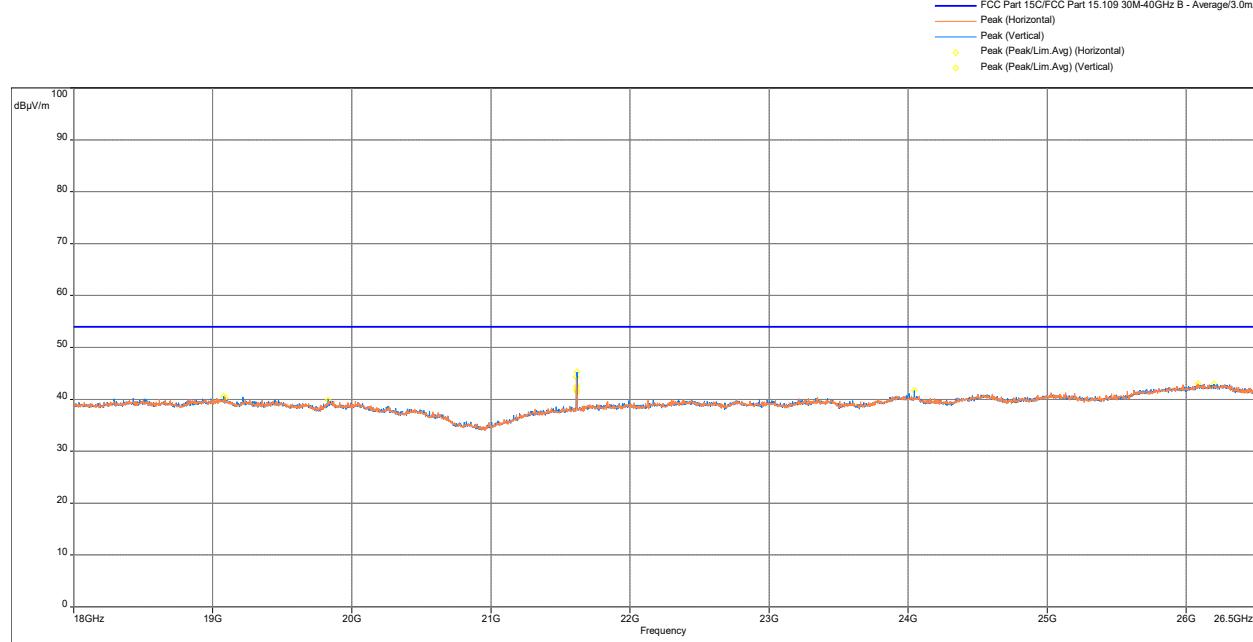


Radiated Spurious Emissions 18 – 26.5 GHz, Peak Scan vs Peak Limit



Model: ; Client: ; Comments: ; Test Date: 11/27/2023 08:08

Radiated Spurious Emissions 18 – 26.5 GHz, Average Scan vs Average Limit



Model: ; Client: ; Comments: ; Test Date: 11/27/2023 08:05

Test Results: 15.209 Radiated Spurious Emissions Charging Mode @ 120V 60Hz, Low Channel Tx at 2402MHz

Frequency (MHz)	QPeak@ 10m (dB μ V/m)	Lim. QPeak @10m (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Comment	Correction (dB)
342.92	32.95	35.50	-2.55	1.01	163.25	Vertical	-10.92
341.01	32.74	35.50	-2.76	1.01	163.25	Vertical	-10.95
345.57	32.01	35.50	-3.49	1.01	175.00	Vertical	-10.85
333.32	30.74	35.50	-4.76	1.01	168.50	Vertical	-11.02
347.48	30.31	35.50	-5.19	1.01	175.00	Vertical	-10.78
46.81	23.62	29.50	-5.88	1.01	358.00	Vertical	-17.52
54.86	22.89	29.50	-6.61	1.01	207.00	Vertical	-19.45
46.13	22.33	29.50	-7.17	1.01	358.00	Vertical	-17.19
337.22	27.91	35.50	-7.59	1.00	166.50	Vertical	-10.98
337.46	27.15	35.50	-8.35	1.00	165.50	Vertical	-10.98

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Peak @3m (dB μ V/m)	Lim. Peak @3m (dB μ V/m)	Margin dB	Height (m)	Angle (°)	Comment	Correction (dB)
17895.73	57.05	74	-16.95	1.51	221.75	Horizontal	13.86
12010.90	56.07	74	-17.93	2.49	7.75	Vertical	7.08
12010.90	54.62	74	-19.38	2.49	321.75	Horizontal	7.08
26108.15	52.61	74	-21.39	1.51	265.25	Horizontal	2.91
26059.42	52.50	74	-21.50	1.51	187.50	Horizontal	2.92
26054.88	52.49	74	-21.51	1.51	0.00	Vertical	2.92

Note: Correction = AF + CF - Preamp

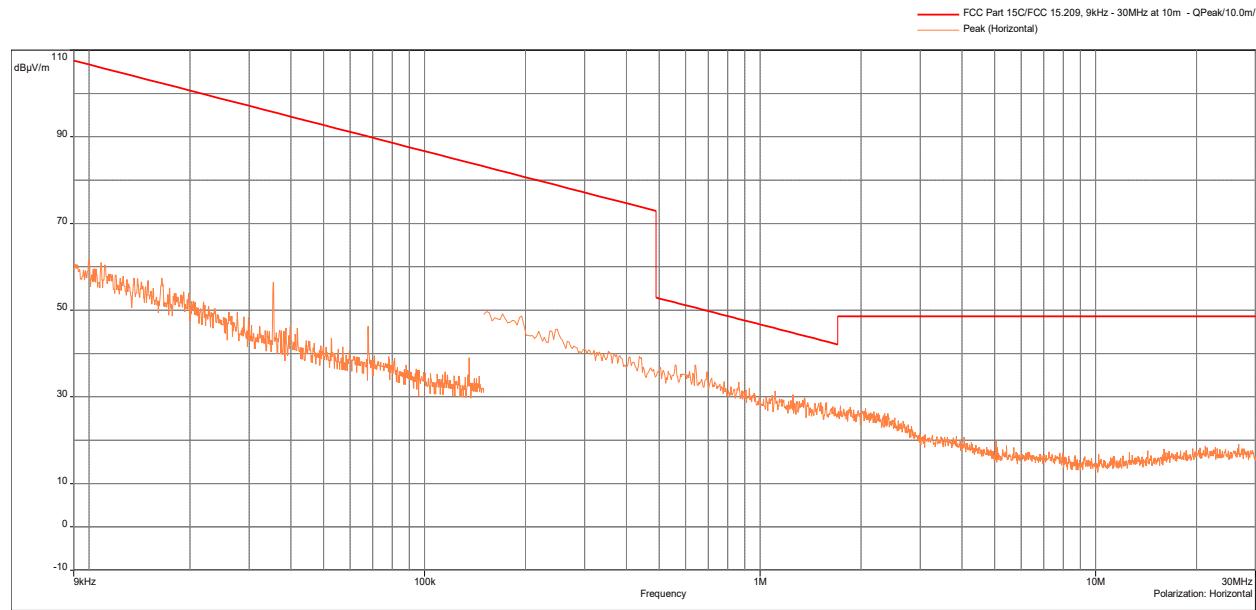
Frequency (MHz)	Ave @3m (dB μ V/m)	Lim. Ave @3m (dB μ V/m)	Margin dB	Height (m)	Angle (°)	Comment	Correction (dB)
12008.63	48.87	54	-5.13	2.49	25.25	Vertical	7.09
21619.58	45.24	54	-8.76	1.51	307.75	Vertical	-3.41
12010.90	44.68	54	-9.32	2.49	315.50	Horizontal	7.08
21615.05	44.32	54	-9.68	1.51	252.00	Horizontal	-3.41
26084.63	43.05	54	-10.95	1.51	299.00	Horizontal	2.93
26200.23	42.97	54	-11.03	1.51	108.50	Vertical	2.67
21617.60	42.52	54	-11.48	1.51	252.00	Horizontal	-3.41

Note: Correction = AF + CF - Preamp

Results	Complies
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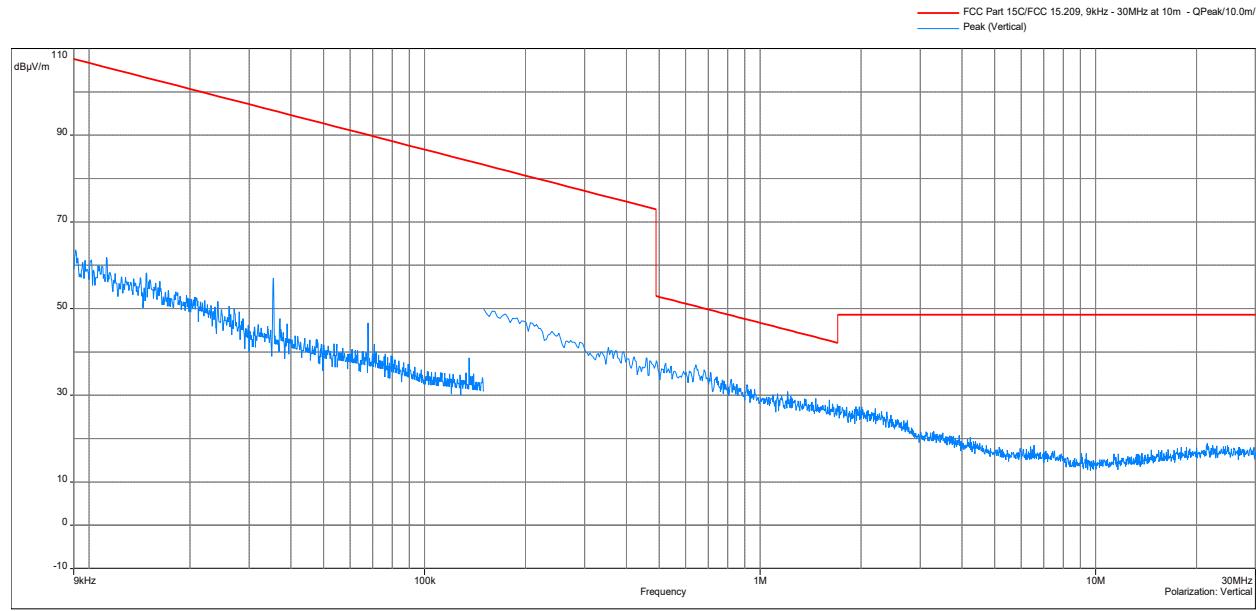
Test Results: 15.209 Radiated Spurious Emissions Normal Mode @ Battery, Mid Channel Tx at 2440MHz

Radiated Spurious Emissions 9kHz - 30 MHz Parallel Antenna Polarization



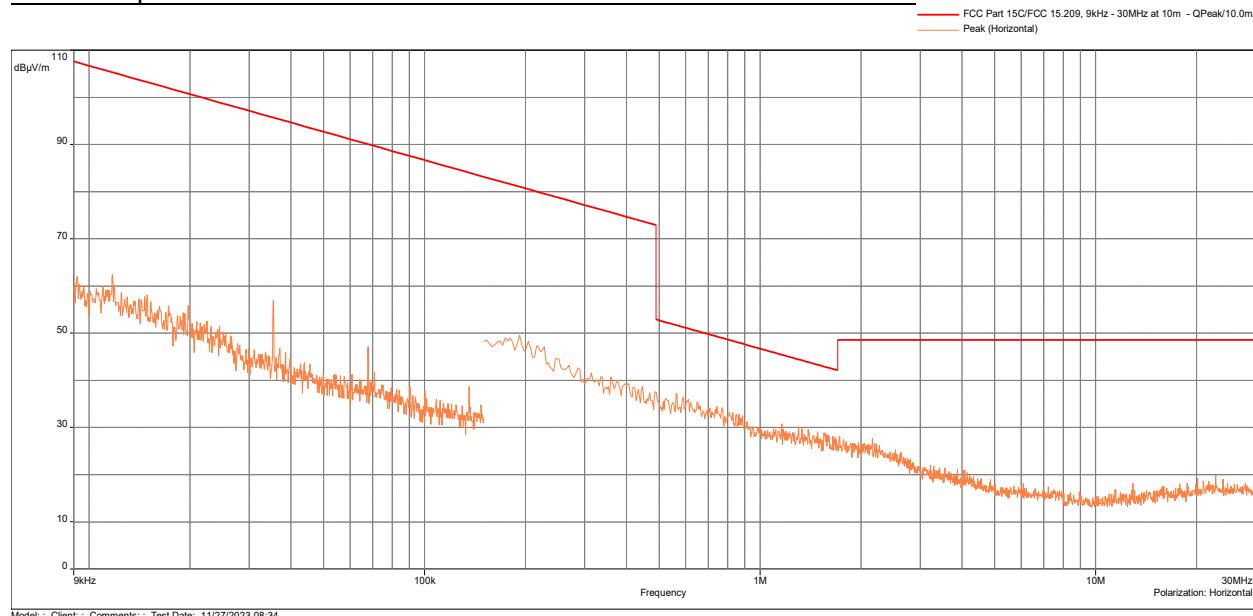
Model: ; Client: ; Comments: ; Test Date: 11/27/2023 08:23

Radiated Spurious Emissions 9kHz - 30 MHz Perpendicular Antenna Polarization

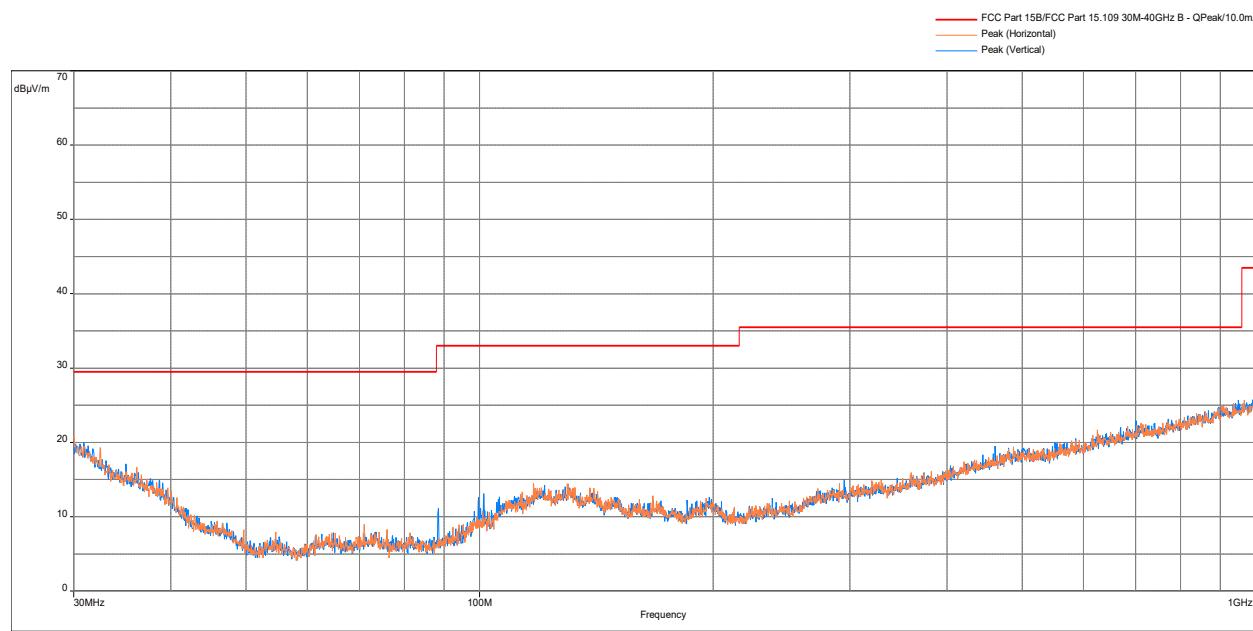


Model: ; Client: ; Comments: ; Test Date: 11/27/2023 08:23

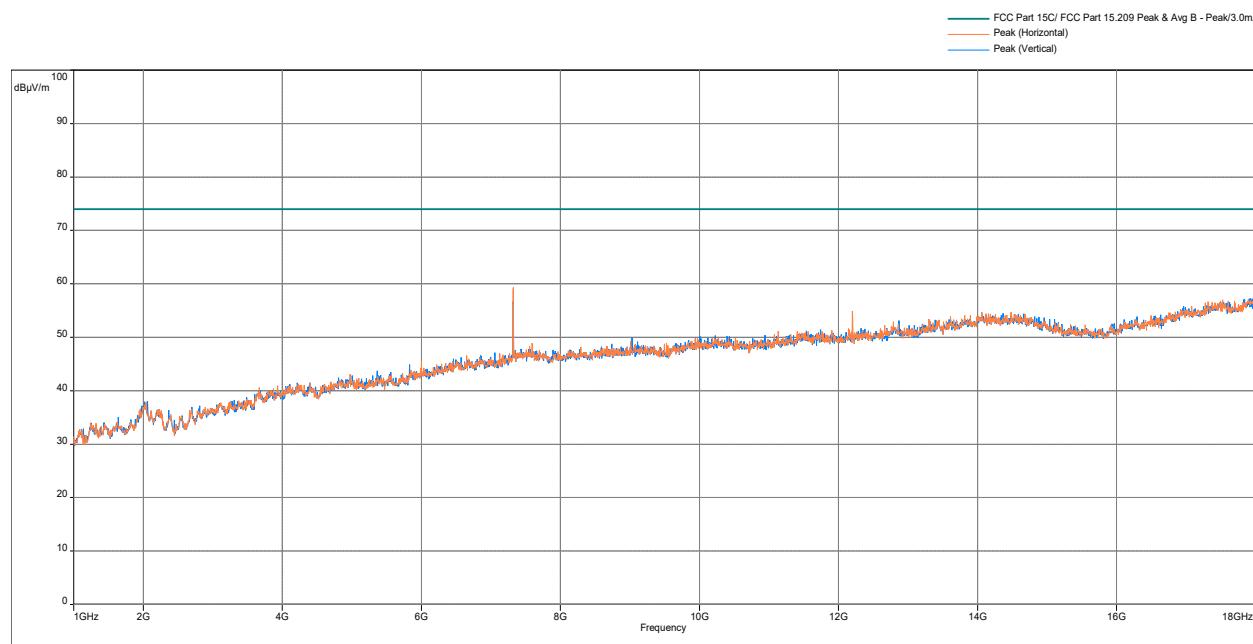
Radiated Spurious Emissions 9kHz - 30 MHz Horizontal Antenna Polarization



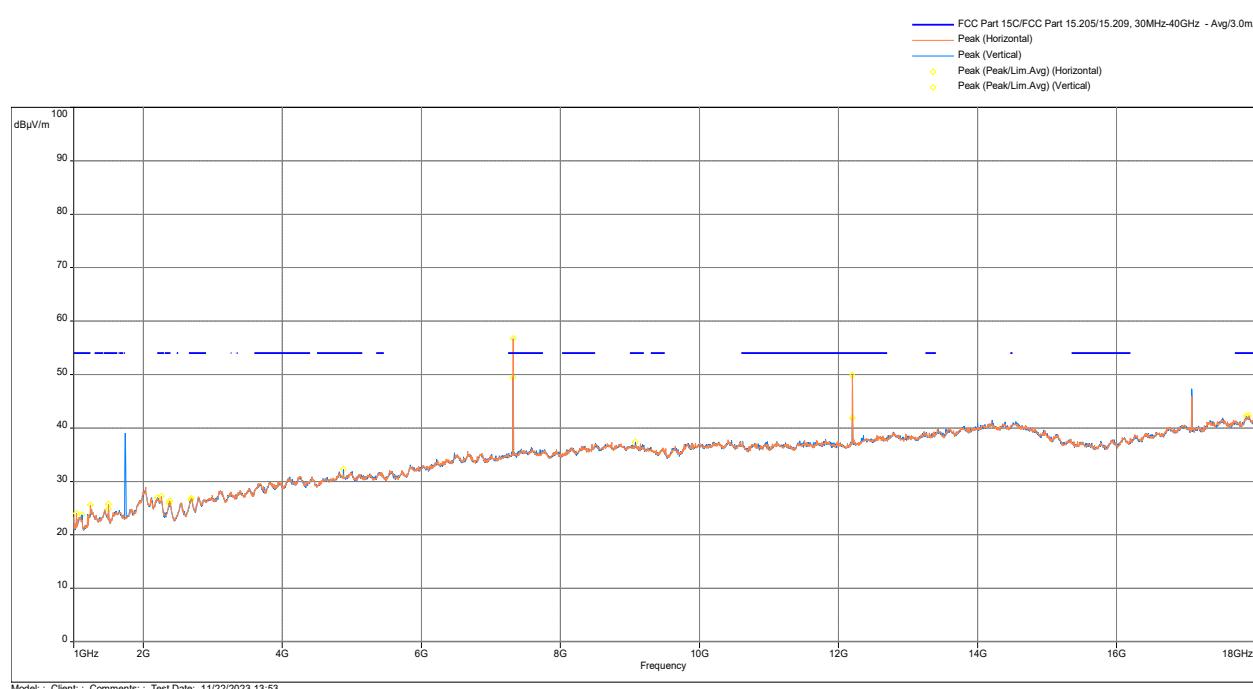
Radiated Spurious Emissions 30 MHz - 1000 MHz



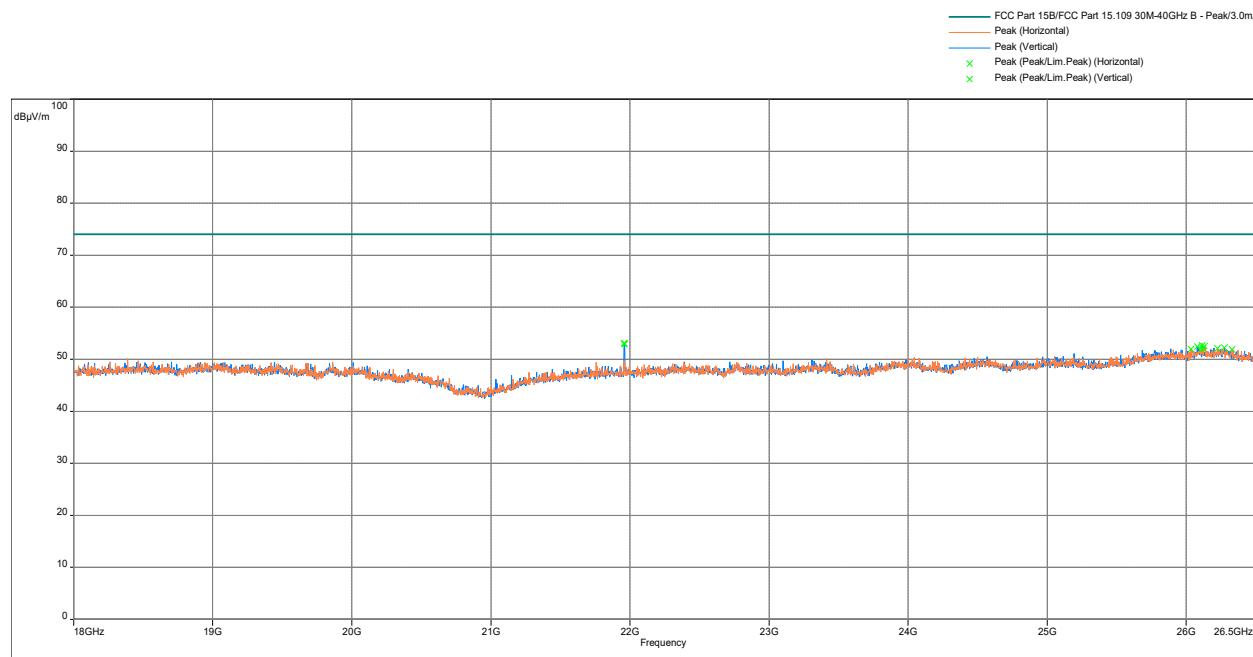
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



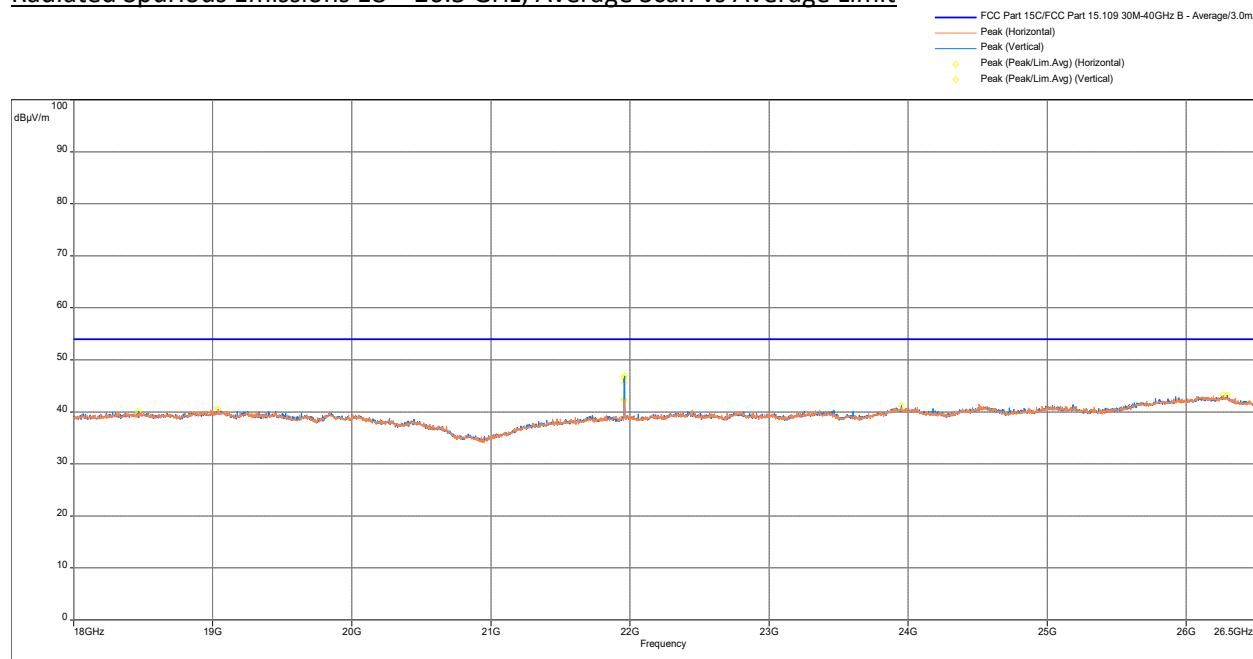
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Average Limit



Radiated Spurious Emissions 18 – 26.5 GHz, Peak Scan vs Peak Limit



Radiated Spurious Emissions 18 – 26.5 GHz, Average Scan vs Average Limit



Test Results: 15.209 Radiated Spurious Emissions Normal Mode @ Battery, Mid Channel Tx at 2440 MHz

Frequency (MHz)	QPeak@ 10m (dB μ V/m)	Lim. QPeak @10m (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Comment	Correction (dB)
30.03	20.85	29.50	-8.65	1.01	199.25	Horizontal	-5.96
54.64	7.97	29.50	-21.53	1.01	195.00	Horizontal	-19.44
71.03	8.96	29.50	-20.54	1.99	122.25	Horizontal	-18.54
76.01	8.30	29.50	-21.20	1.01	351.75	Horizontal	-18.62
81.38	7.88	29.50	-21.62	1.99	316.75	Horizontal	-18.87
99.19	10.03	33.00	-22.97	1.99	284.75	Horizontal	-16.24
809.17	23.38	35.50	-12.12	1.01	158.25	Horizontal	-1.97

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Peak @3m (dB μ V/m)	Lim. Peak @3m (dB μ V/m)	Margin dB	Height (m)	Angle (°)	Comment	Correction (dB)
7320.60	59.31	74	-14.69	1.51	150.50	Horizontal	3.40
17920.67	57.31	74	-16.69	2.49	270.50	Vertical	13.81
17896.87	57.15	74	-16.85	1.51	14.50	Horizontal	13.85
7320.03	56.66	74	-17.34	1.51	164.25	Vertical	3.40
12198.47	54.91	74	-19.09	2.49	228.50	Horizontal	7.07
14480.43	54.74	74	-19.26	1.51	72.00	Horizontal	10.67

Note: Correction = AF + CF - Preamp

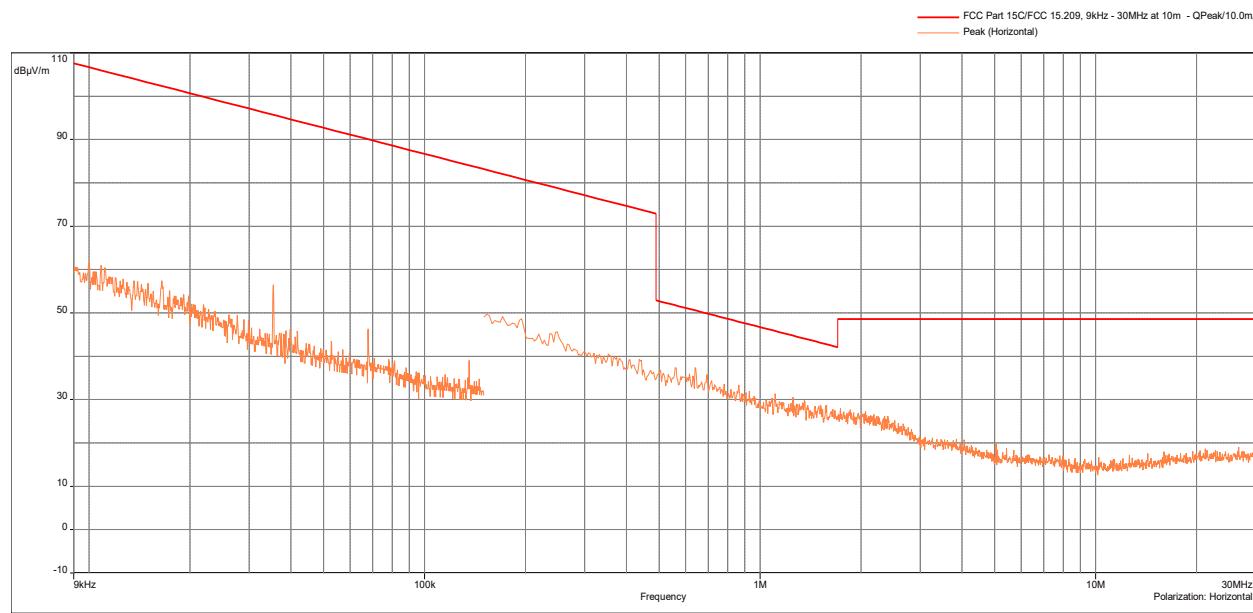
Frequency (MHz)	Ave @3m (dB μ V/m)	Lim. Ave @3m (dB μ V/m)	Margin dB	Height (m)	Angle (°)	Comment	Correction (dB)
7320.53	51.93	54	-2.07	1.71	152.50	Horizontal	3.40
12198.47	49.86	54	-4.14	2.49	68.25	Horizontal	7.07
7320.03	49.46	54	-4.54	1.51	154.50	Vertical	3.40
17898.00	42.31	54	-11.69	2.49	284.25	Horizontal	13.85
17865.70	42.23	54	-11.77	1.51	197.75	Vertical	13.87
12198.47	41.87	54	-12.13	1.51	197.75	Vertical	7.07

Note: Correction = AF + CF - Preamp

Results	Complies
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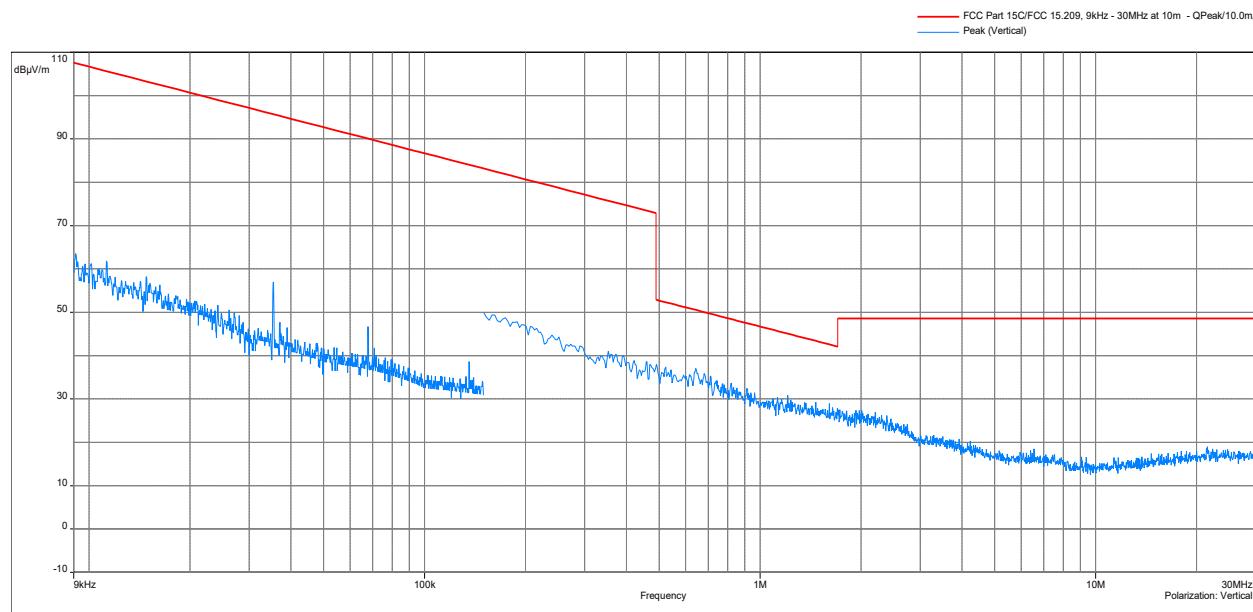
Test Results: 15.209 Radiated Spurious Emissions Charging Mode @ 120V 60Hz, Mid Channel Tx at 2440MHz

Radiated Spurious Emissions 9kHz - 30 MHz Parallel Antenna Polarization



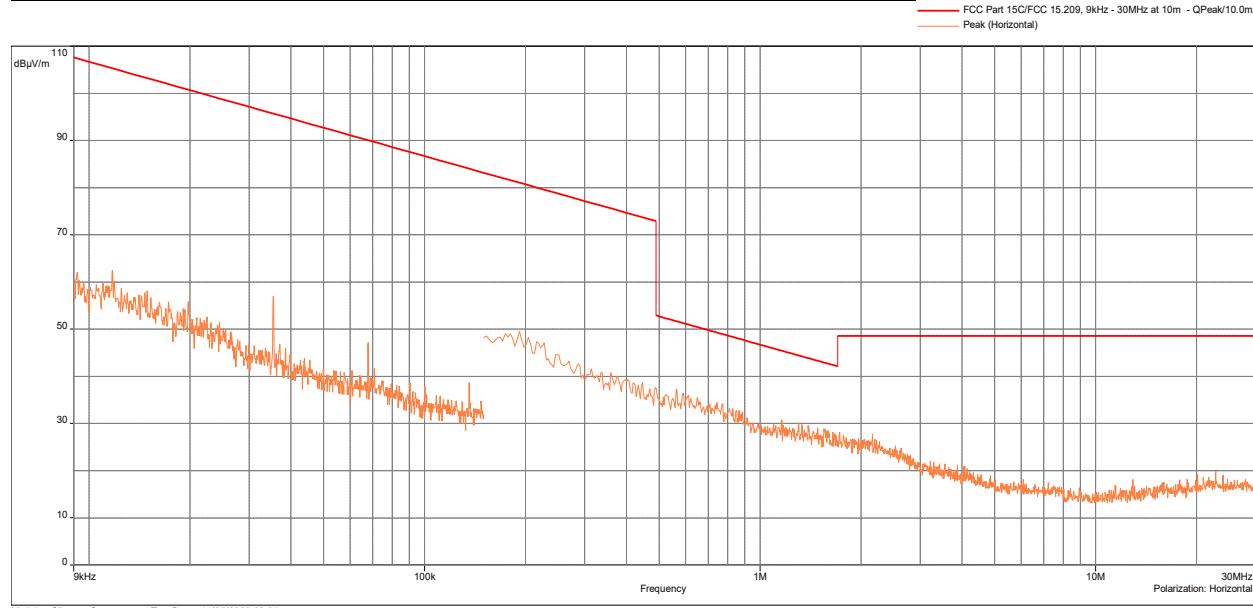
Model: ; Client: ; Comments: ; Test Date: 11/27/2023 08:23

Radiated Spurious Emissions 9kHz - 30 MHz Perpendicular Antenna Polarization

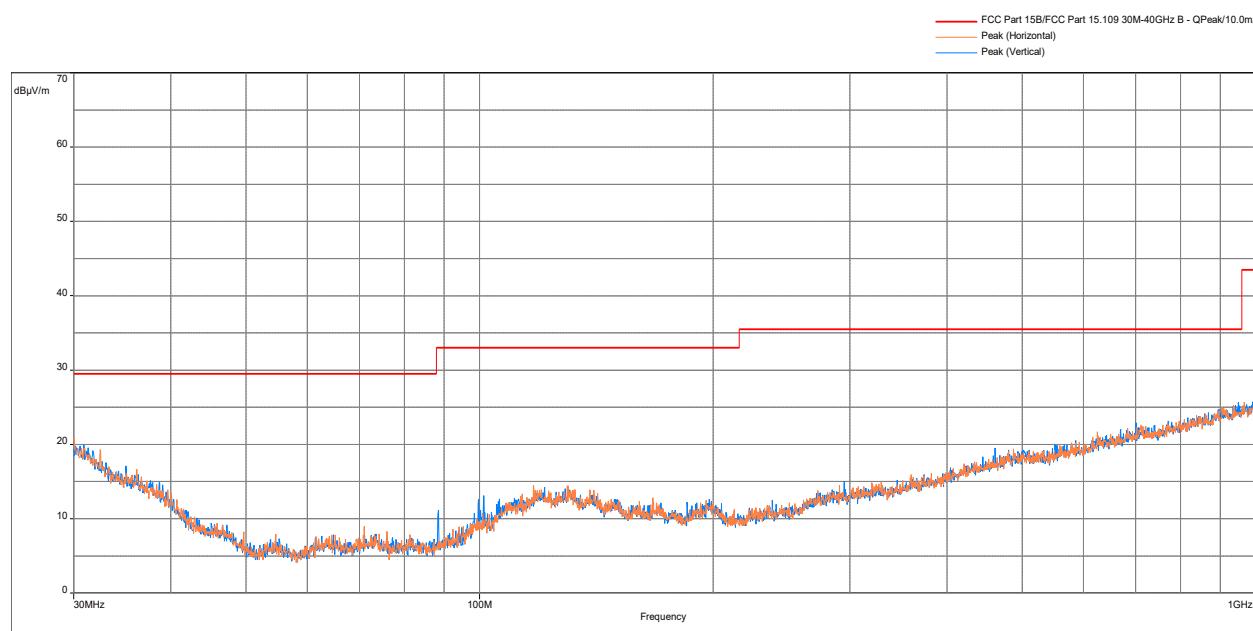


Model: ; Client: ; Comments: ; Test Date: 11/27/2023 08:23

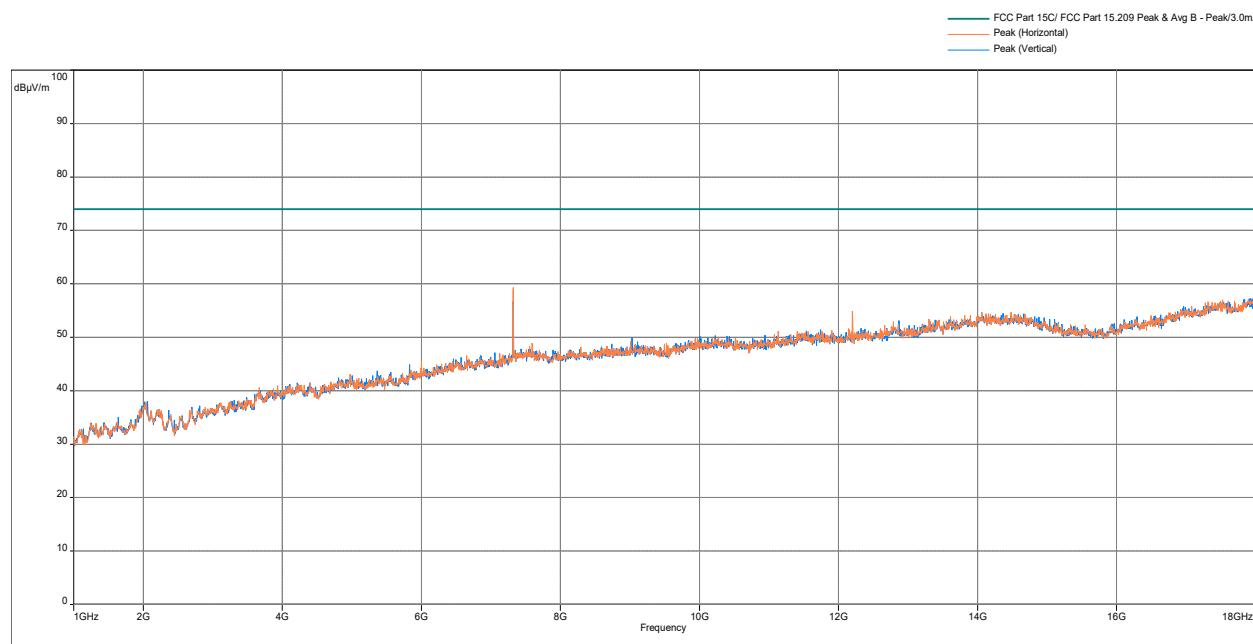
Radiated Spurious Emissions 9kHz - 30 MHz Horizontal Antenna Polarization



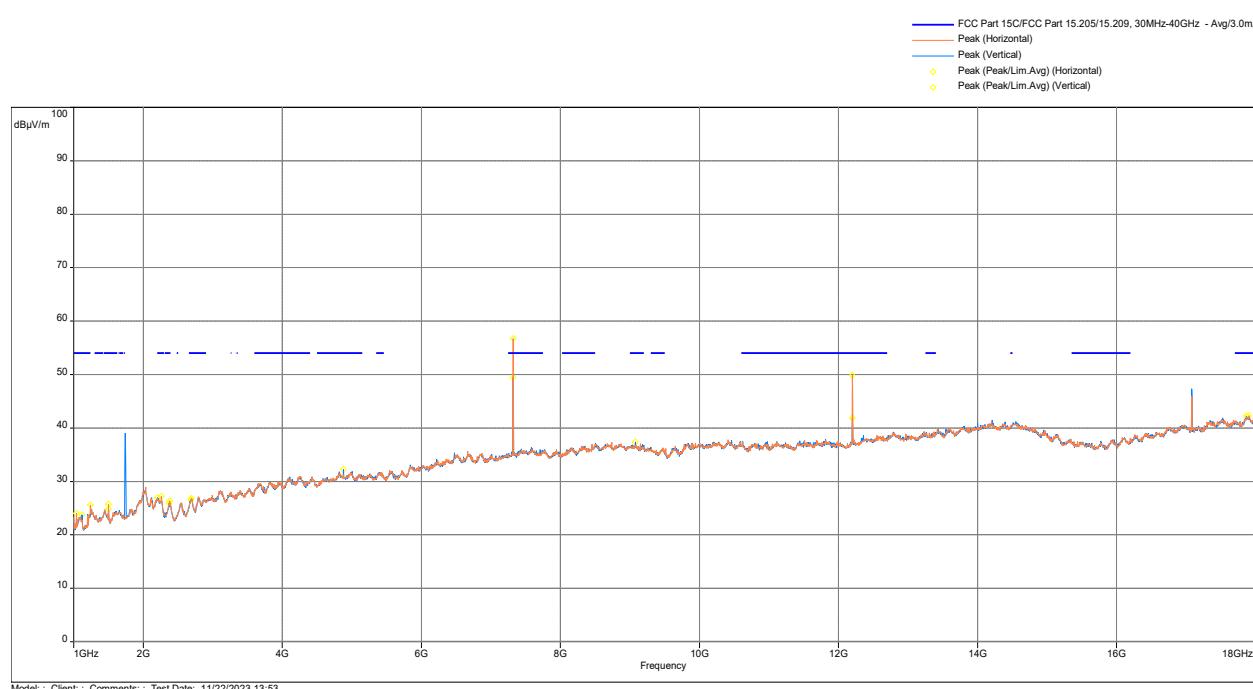
Radiated Spurious Emissions 30 MHz - 1000 MHz



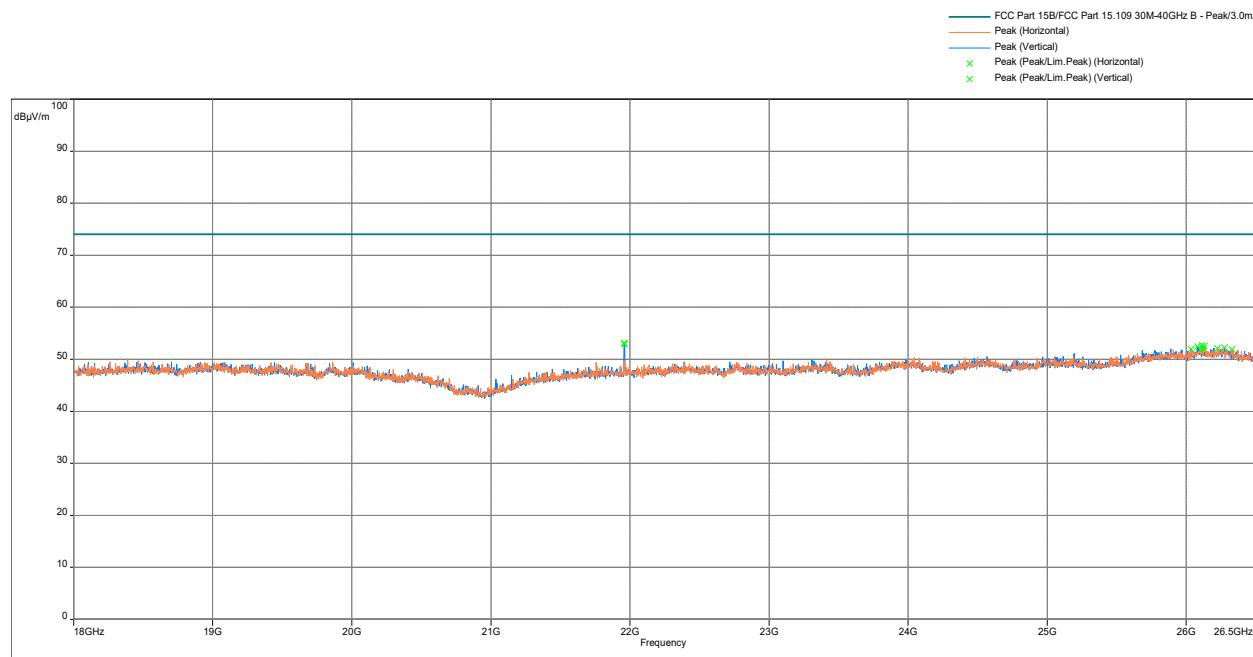
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



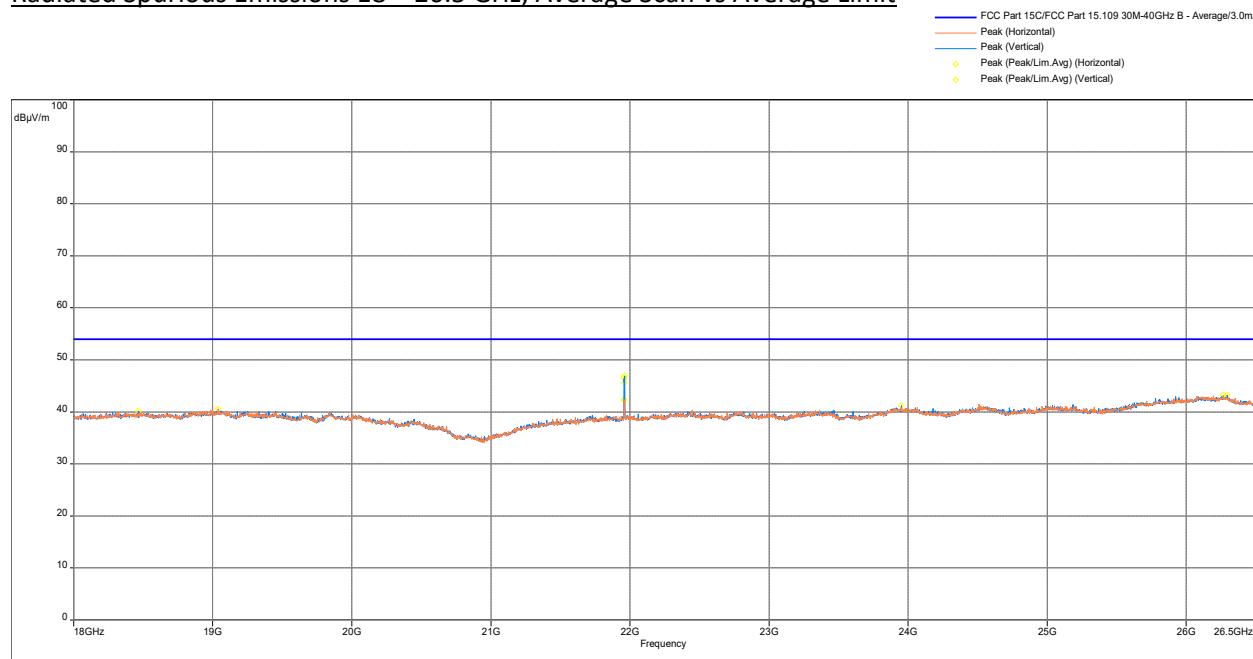
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Average Limit



Radiated Spurious Emissions 18 – 26.5 GHz, Peak Scan vs Peak Limit



Radiated Spurious Emissions 18 – 26.5 GHz, Average Scan vs Average Limit



Test Results: 15.209 Radiated Spurious Emissions Charging Mode @ 120V 60Hz, Mid Channel Tx at 2440 MHz

Frequency (MHz)	QPeak@ 10m (dB μ V/m)	Lim. QPeak @10m (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Comment	Correction (dB)
54.93	22.97	29.50	-6.53	1.01	220.25	Vertical	-19.45
47.14	22.83	29.50	-6.67	1.01	142.25	Vertical	-17.68
53.77	22.82	29.50	-6.68	1.01	186.75	Vertical	-19.38
30.03	21.02	29.50	-8.48	1.01	43.50	Horizontal	-5.96
30.55	19.94	29.50	-9.56	1.01	335.75	Vertical	-6.15
914.64	25.50	35.50	-10.00	1.01	265.75	Horizontal	0.04
949.24	25.30	35.50	-10.20	1.99	17.50	Vertical	0.49

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Peak @3m (dB μ V/m)	Lim. Peak @3m (dB μ V/m)	Margin dB	Height (m)	Angle (°)	Comment	Correction (dB)
7319.47	62.52	74	-11.48	2.49	318.50	Vertical	3.40
7320.60	59.05	74	-14.95	2.49	239.50	Horizontal	3.40
12198.47	58.81	74	-15.19	2.49	6.25	Vertical	7.07
17743.87	57.57	74	-16.43	2.49	7.50	Horizontal	13.38
12200.73	57.53	74	-16.47	2.49	0.00	Horizontal	7.08
17975.63	57.14	74	-16.86	2.49	212.75	Vertical	13.82
25975.55	52.50	74	-21.50	1.51	68.75	Vertical	2.89

Note: Correction = AF + CF - Preamp

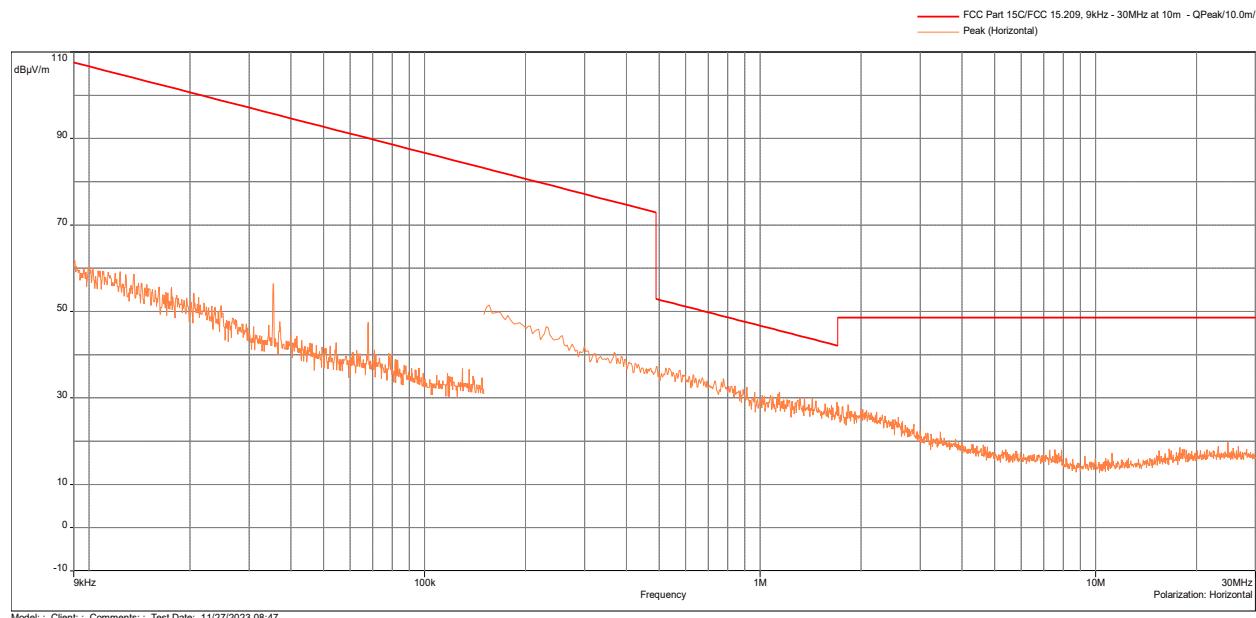
Frequency (MHz)	Ave @3m (dB μ V/m)	Lim. Ave @3m (dB μ V/m)	Margin dB	Height (m)	Angle (°)	Comment	Correction (dB)
12198.47	52.11	54	-1.89	2.49	0.25	Vertical	7.07
12200.73	51.19	54	-2.81	2.49	0.00	Vertical	7.08
12198.47	50.29	54	-3.71	2.49	315.50	Horizontal	7.07
7318.68	48.88	54	-5.12	1.11	281.50	Vertical	3.39
7319.15	43.97	54	-10.03	1.99	17.25	Horizontal	3.39
26218.65	43.21	54	-10.79	1.51	321.50	Horizontal	2.59

Note: Correction = AF + CF - Preamp

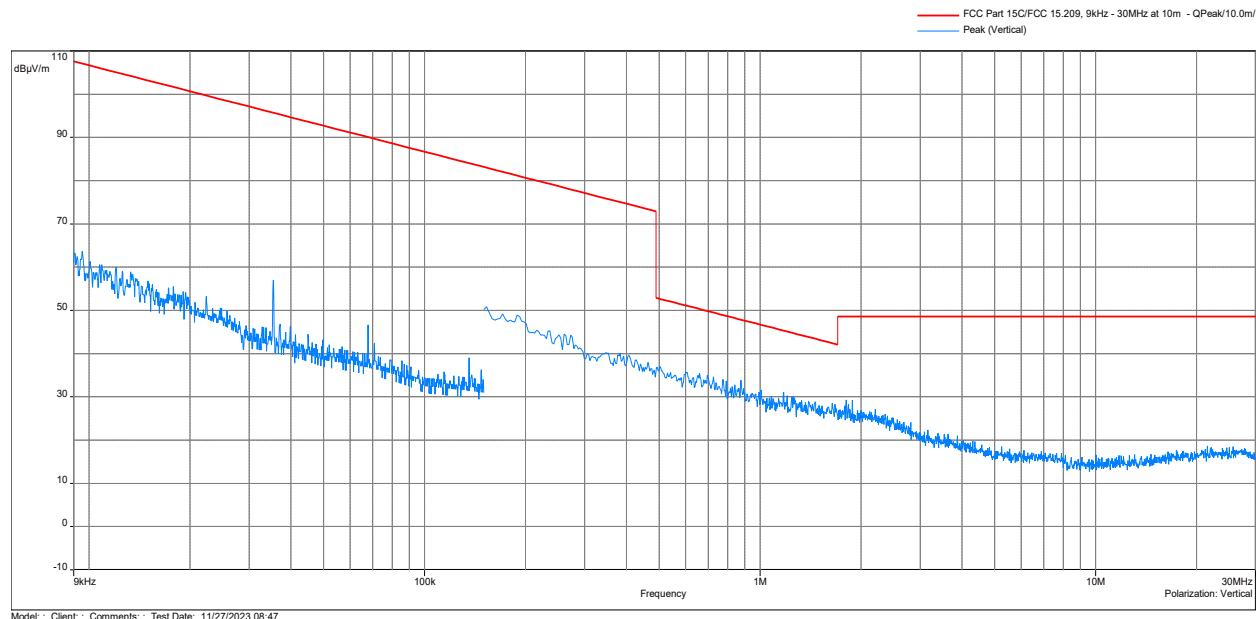
Results	Complies
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Test Results: 15.209 Radiated Spurious Emissions Normal Mode @ Battery, High Channel Tx at 2480MHz

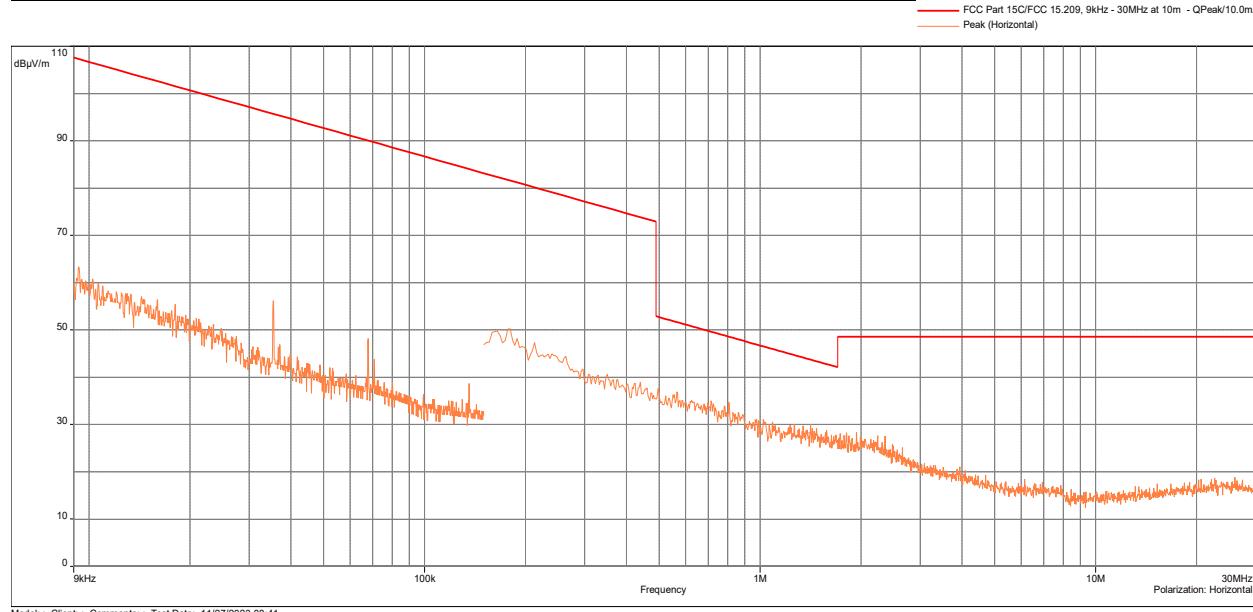
Radiated Spurious Emissions 9kHz - 30 MHz Parallel Antenna Polarization



Radiated Spurious Emissions 9kHz - 30 MHz Perpendicular Antenna Polarization

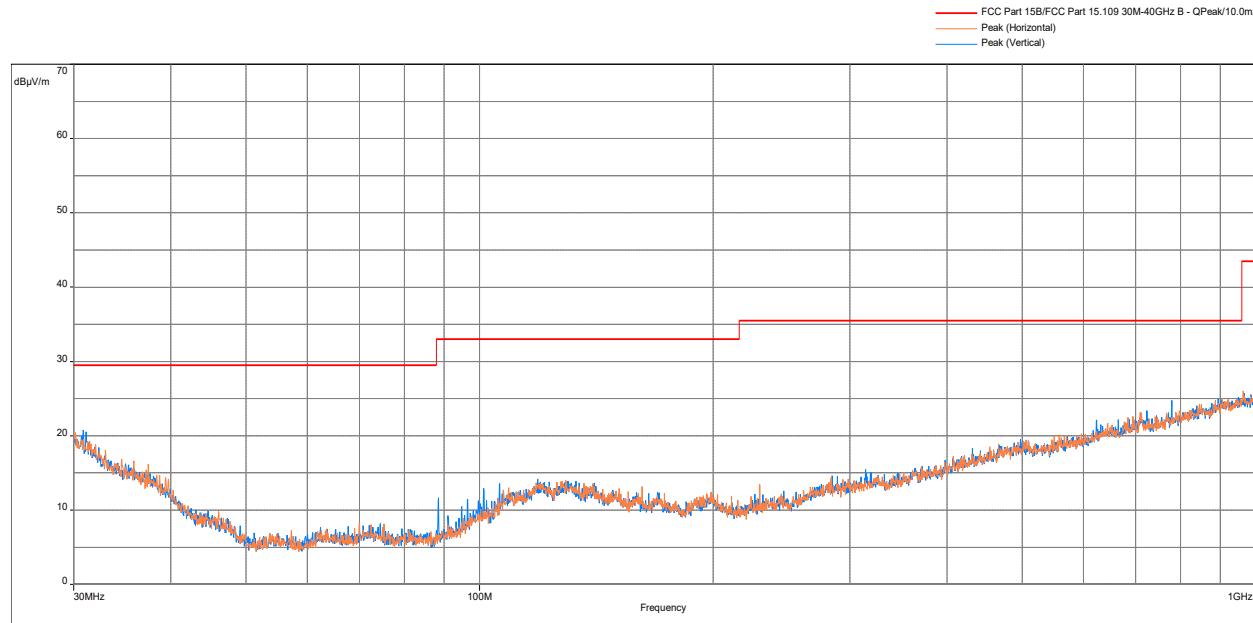


Radiated Spurious Emissions 9kHz - 30 MHz Horizontal Antenna Polarization



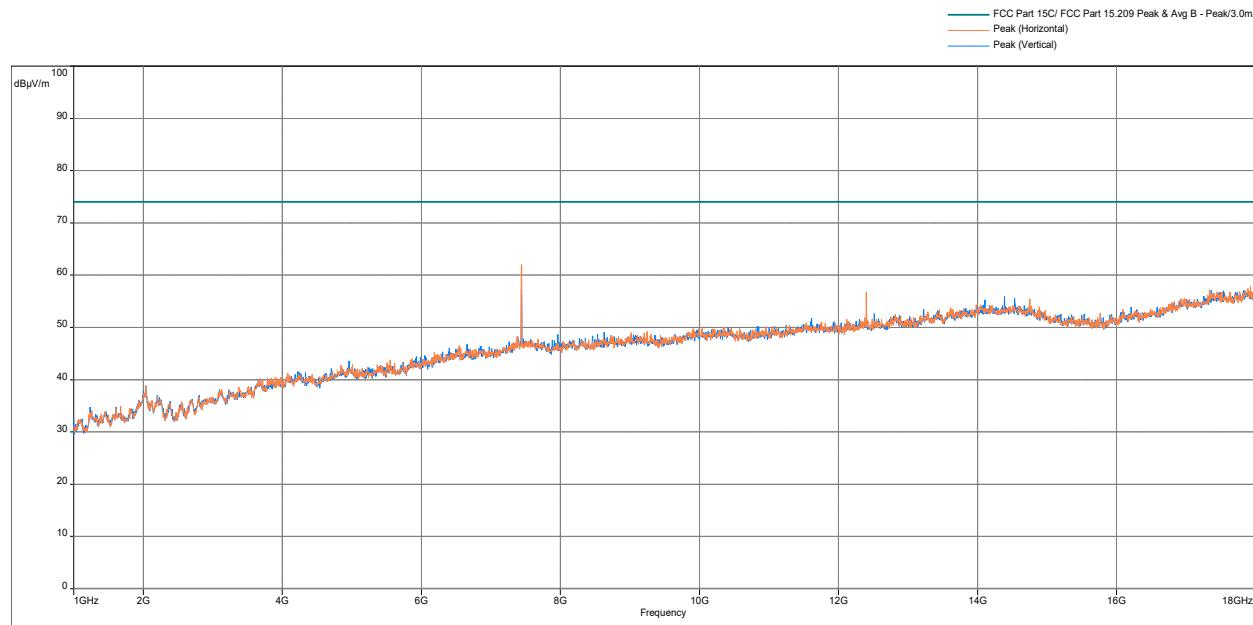
Model: ; Client: ; Comments: ; Test Date: 11/27/2023 08:41

Radiated Spurious Emissions 30 MHz - 1000 MHz

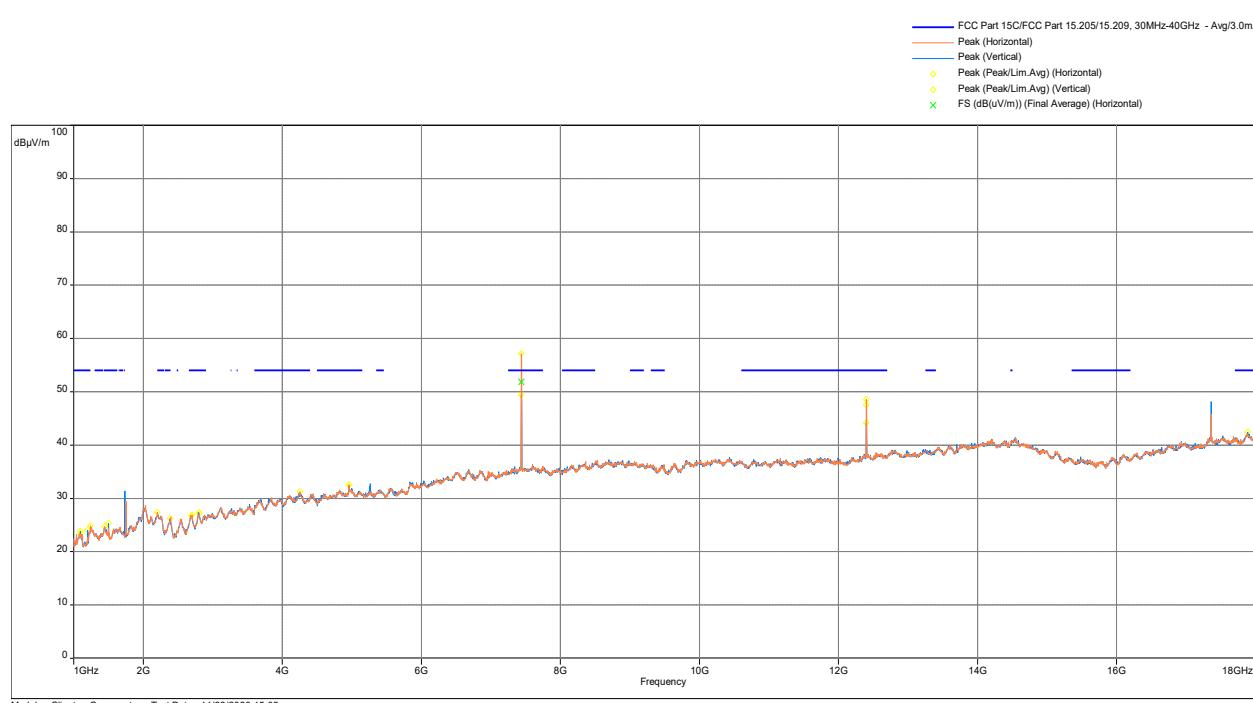


Model: ; Client: ; Comments: ; Test Date: 11/20/2023 14:01

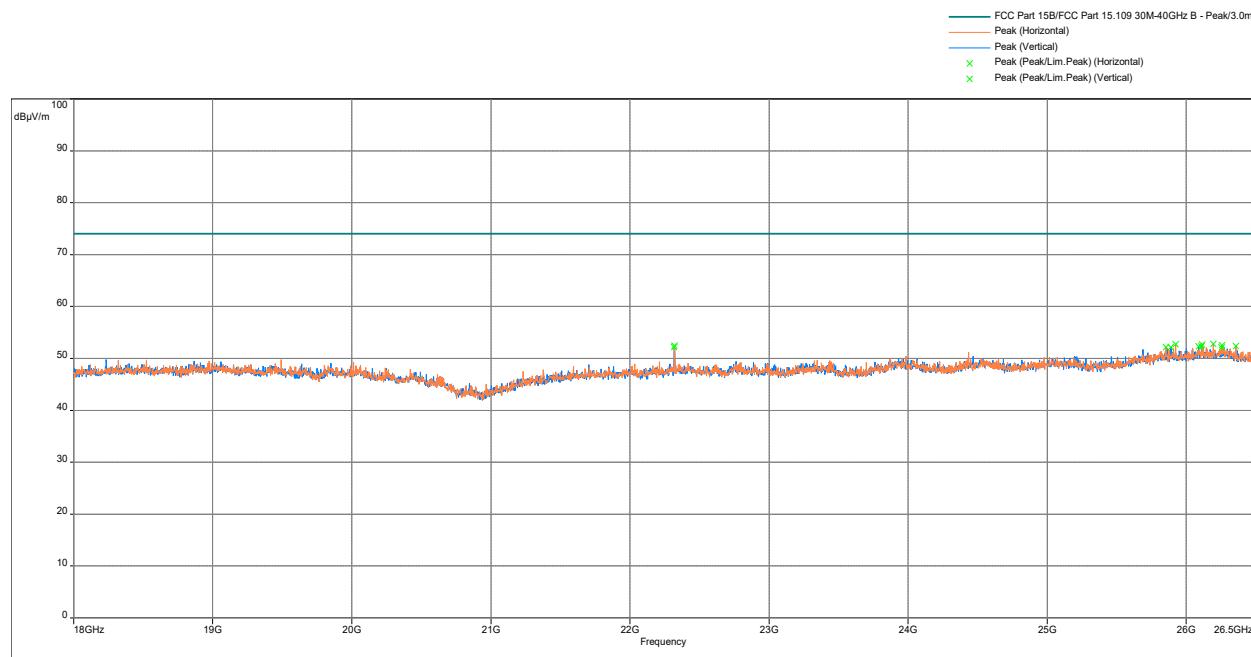
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Average Limit

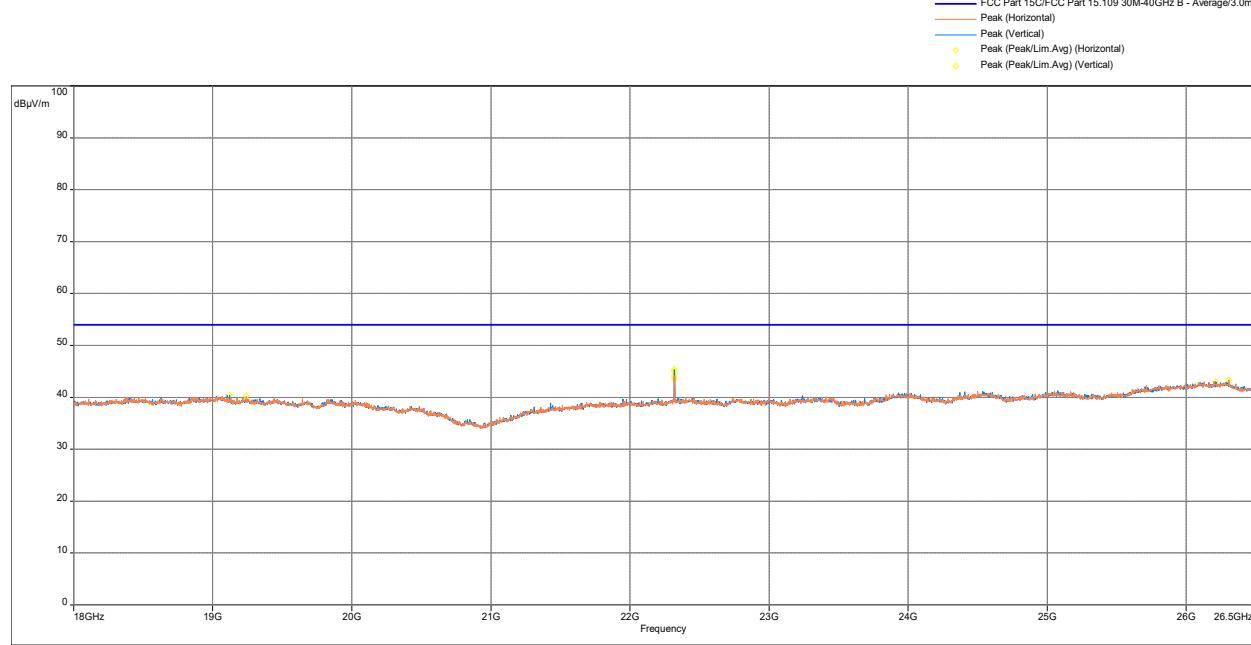


Radiated Spurious Emissions 18 – 26.5 GHz, Peak Scan vs Peak Limit



Model: ; Client: ; Comments: ; Test Date: 11/27/2023 07:24

Radiated Spurious Emissions 18 – 26.5 GHz, Average Scan vs Average Limit



Model: ; Client: ; Comments: ; Test Date: 11/27/2023 07:29

Test Results: 15.209 Radiated Spurious Emissions Normal Mode @ Battery, High Channel Tx at 2480 MHz

Frequency (MHz)	QPeak@ 10m (dB μ V/m)	Lim. QPeak @10m (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Comment	Correction (dB)
30.84	20.78	29.50	-8.72	1.01	0.00	Vertical	-6.27
30.16	20.45	29.50	-9.05	1.01	54.50	Horizontal	-6.01
949.66	25.21	35.50	-10.29	1.99	18.00	Vertical	0.50
894.76	25.02	35.50	-10.48	1.01	75.00	Vertical	-0.36
906.04	25.01	35.50	-10.49	1.01	303.50	Horizontal	-0.14
921.56	24.89	35.50	-10.61	1.01	0.00	Horizontal	0.11
903.23	24.85	35.50	-10.65	1.99	352.25	Vertical	-0.20

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Peak @3m (dB μ V/m)	Lim. Peak @3m (dB μ V/m)	Margin dB	Height (m)	Angle (°)	Comment	Correction (dB)
7440.73	62.02	74.00	-11.98	1.51	151.00	Horizontal	3.66
17924.07	57.96	74.00	-16.04	2.49	283.75	Horizontal	13.80
7440.17	57.34	74.00	-16.66	1.51	169.75	Vertical	3.66
12400.77	56.86	74.00	-17.14	2.49	206.25	Horizontal	7.70
26161.98	52.79	74.00	-21.21	1.51	219.75	Vertical	2.77
26302.52	52.40	74.00	-21.60	1.51	179.75	Vertical	2.24
26095.68	52.35	74.00	-21.65	1.51	292.75	Horizontal	2.93

Note: Correction = AF + CF - Preamp

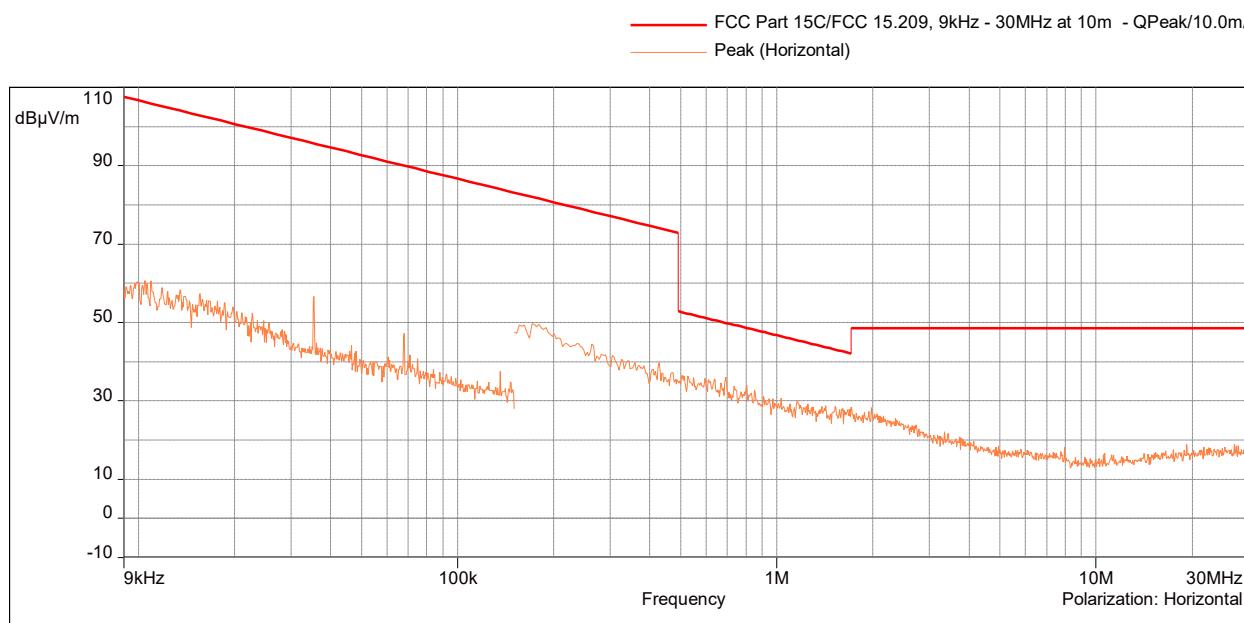
Frequency (MHz)	Ave @3m (dB μ V/m)	Lim. Ave @3m (dB μ V/m)	Margin dB	Height (m)	Angle (°)	Comment	Correction (dB)
7439.11	51.82	54.00	-2.18	1.75	162.25	Horizontal	3.67
7439.03	49.41	54.00	-4.59	1.51	336.25	Vertical	3.67
12398.50	48.57	54.00	-5.43	2.49	228.50	Horizontal	7.69
12400.77	47.55	54.00	-6.45	2.49	228.50	Horizontal	7.70
12400.77	44.21	54.00	-9.79	1.51	271.50	Vertical	7.70
21957.03	43.80	54.00	-10.20	1.51	354.50	Vertical	-2.84

Note: Correction = AF + CF - Preamp

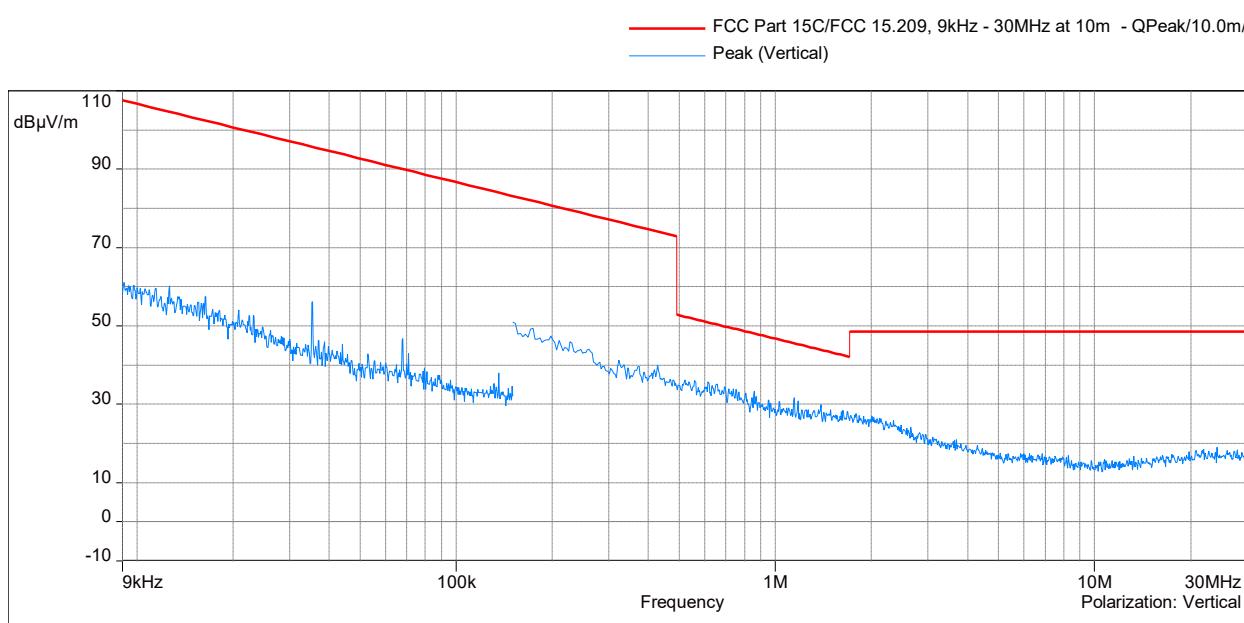
Results	Complies
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Test Results: 15.209 Radiated Spurious Emissions Charging Mode @ 120V 60Hz, High Channel Tx at 2480MHz

Radiated Spurious Emissions 9kHz - 30 MHz Parallel Antenna Polarization

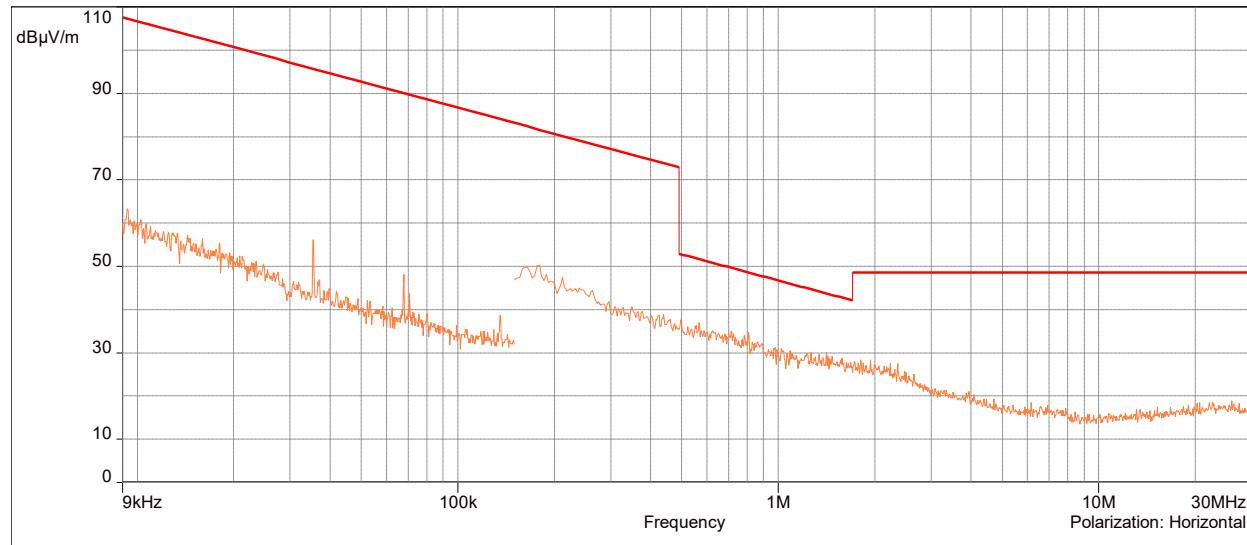


Radiated Spurious Emissions 9kHz - 30 MHz Perpendicular Antenna Polarization



Radiated Spurious Emissions 9kHz - 30 MHz Horizontal Antenna Polarization

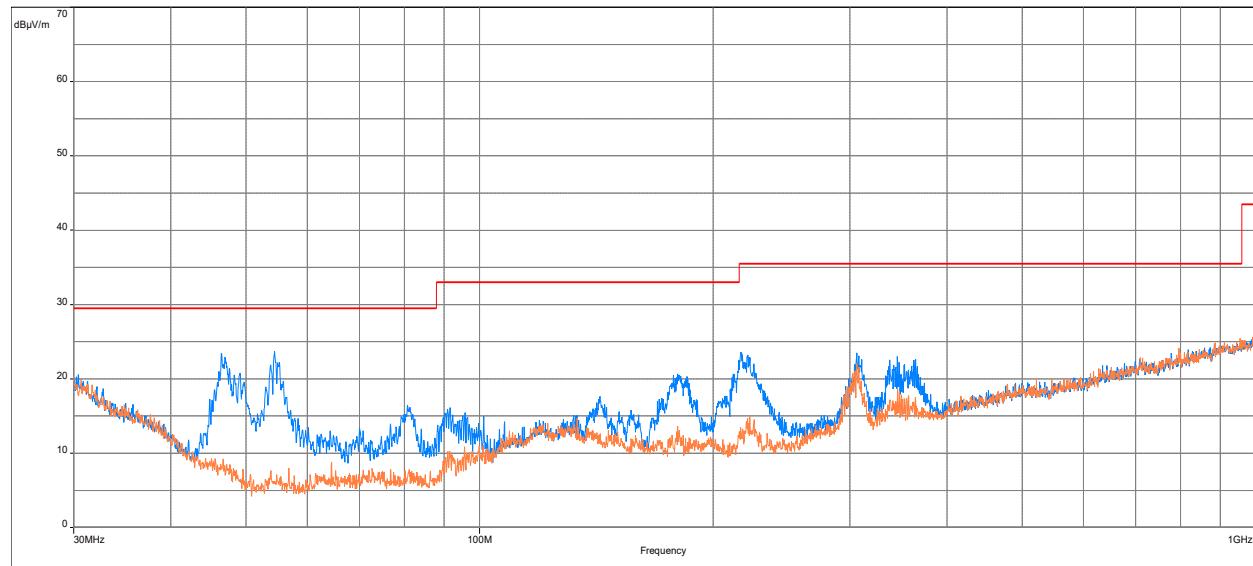
— FCC Part 15C/FCC 15.209, 9kHz - 30MHz at 10m - QPeak/10.0m/
— Peak (Horizontal)



Model: ; Client: ; Comments: ; Test Date: 11/27/2023 08:41

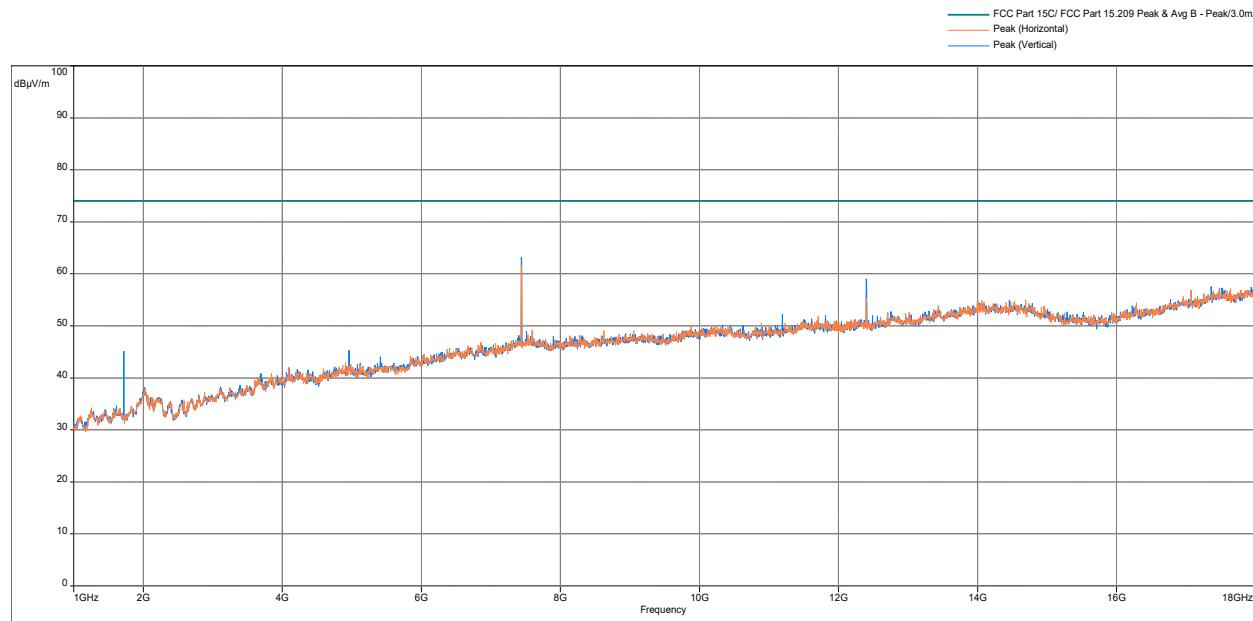
Radiated Spurious Emissions 30 MHz - 1000 MHz

— FCC Part 15B/FCC Part 15.109 30M-40GHz B - QPeak/10.0m/
— Peak (Horizontal)
— Peak (Vertical)

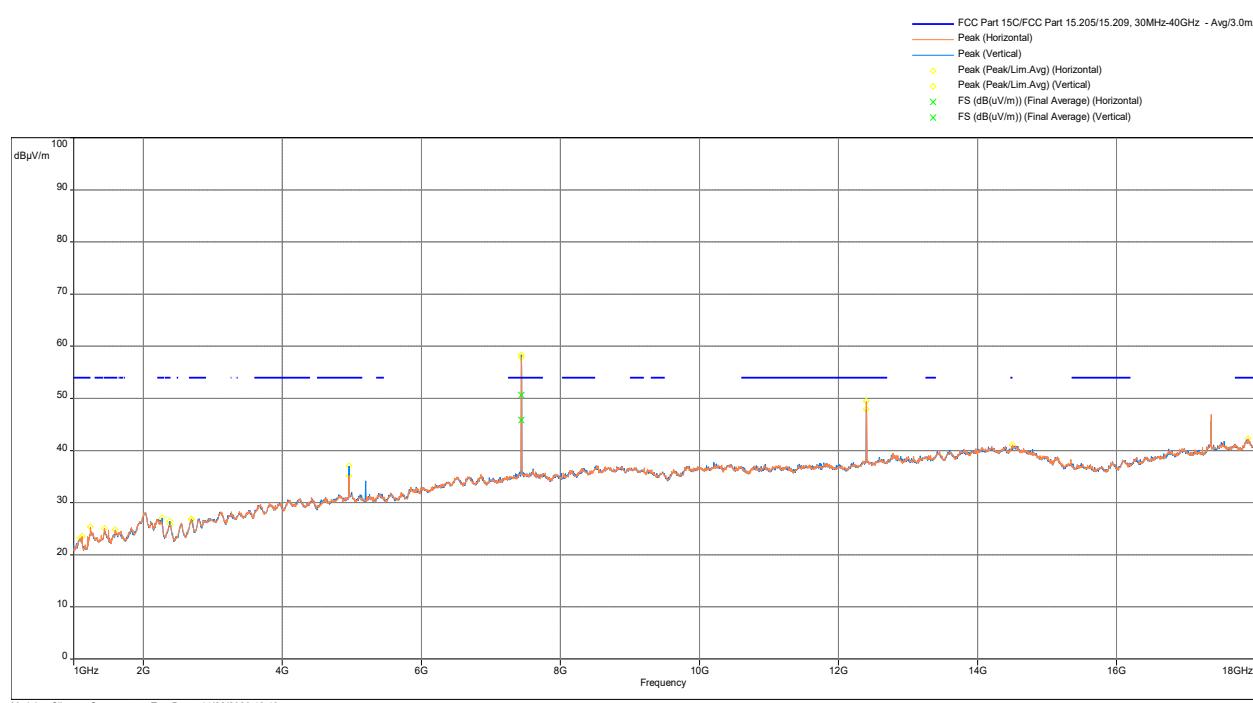


Model: ; Client: ; Comments: ; Test Date: 11/20/2023 14:19

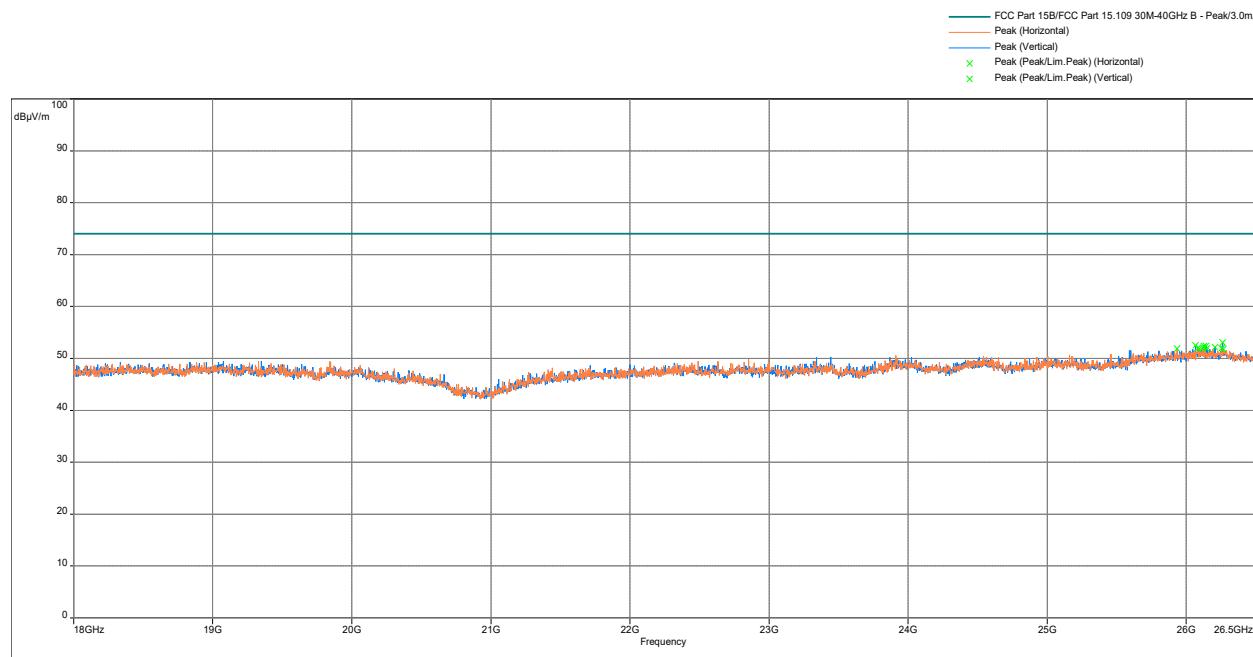
Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Average Limit

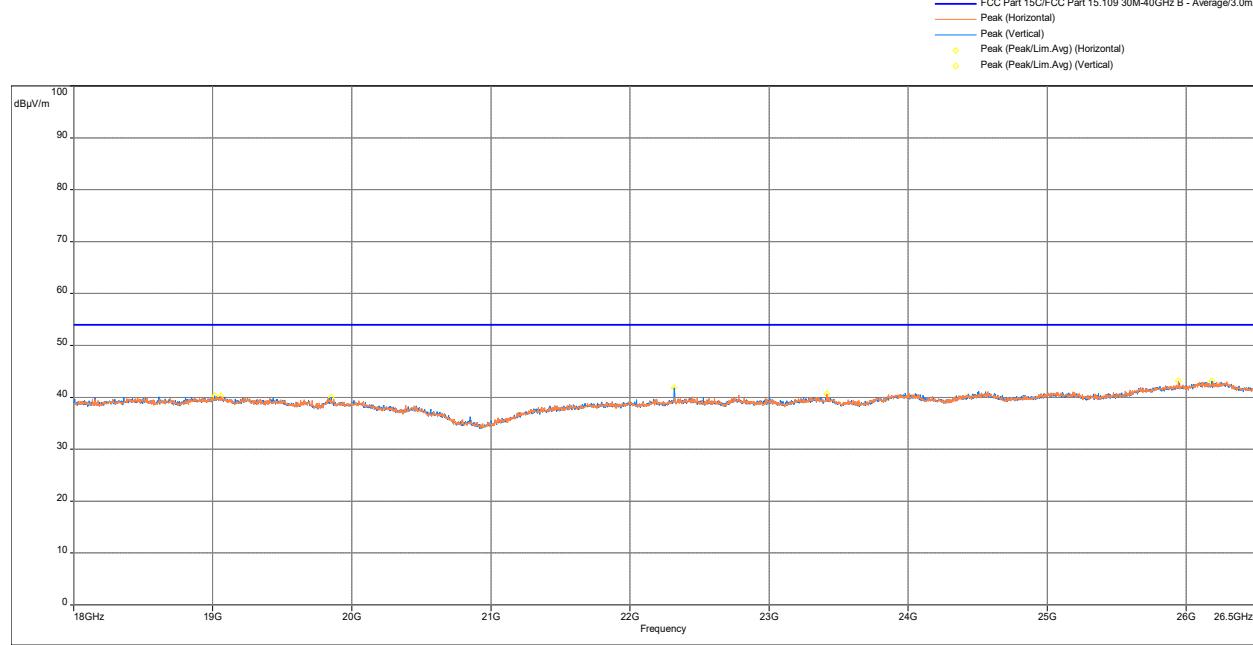


Radiated Spurious Emissions 18 – 26.5 GHz, Peak Scan vs Peak Limit



Model: ; Client: ; Comments: ; Test Date: 11/27/2023 07:47

Radiated Spurious Emissions 18 – 26.5 GHz, Average Scan vs Average Limit



Model: ; Client: ; Comments: ; Test Date: 11/27/2023 07:50

Test Results: 15.209 Radiated Spurious Emissions Charing Mode @ 120V 60Hz, High Channel Tx at 2480 MHz

Frequency (MHz)	QPeak@ 10m (dB μ V/m)	Lim. QPeak @10m (dB μ V/m)	Margin (dB)	Height (m)	Angle (°)	Comment	Correction (dB)
54.41	23.68	29.50	-5.82	1.01	163.25	Vertical	-19.42
46.49	23.45	29.50	-6.05	1.99	0.00	Vertical	-17.36
55.25	22.21	29.50	-7.29	1.01	170.50	Vertical	-19.45
53.80	21.91	29.50	-7.59	1.01	163.25	Vertical	-19.39
49.14	20.79	29.50	-8.71	1.01	0.00	Vertical	-18.51
30.42	20.56	29.50	-8.94	1.01	9.25	Vertical	-6.10
30.00	20.30	29.50	-9.20	1.99	138.50	Horizontal	-5.94

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Peak @3m (dB μ V/m)	Lim. Peak @3m (dB μ V/m)	Margin dB)	Height (m)	Angle (°)	Comment	Correction (dB)
7439.03	63.17	74	-10.83	1.49	322.00	Vertical	3.67
7440.17	61.53	74	-12.47	2.49	0.00	Horizontal	3.66
12398.50	59.07	74	-14.93	2.49	14.50	Vertical	7.69
17991.50	57.32	74	-16.68	1.51	318.75	Horizontal	13.87
12398.50	55.38	74	-18.62	2.49	78.00	Horizontal	7.69
26261.72	53.08	74	-20.92	1.51	0.00	Vertical	2.40
26067.35	52.50	74	-21.50	1.51	76.00	Vertical	2.92

Note: Correction = AF + CF - Preamp

Frequency (MHz)	Ave @3m (dB μ V/m)	Lim. Ave @3m (dB μ V/m)	Margin dB)	Height (m)	Angle (°)	Comment	Correction (dB)
7439.14	50.63	54	-3.37	1.50	2.00	Vertical	3.66
12399.63	49.43	54	-4.57	2.49	186.00	Horizontal	7.70
12400.77	47.93	54	-6.07	2.49	305.50	Vertical	7.70
7439.06	45.84	54	-8.16	2.31	8.00	Horizontal	3.67
26185.22	43.18	54	-10.82	1.51	283.75	Vertical	2.70
25944.67	43.16	54	-10.84	1.51	158.25	Horizontal	2.86

Note: Correction = AF + CF - Preamp

Results	Complies
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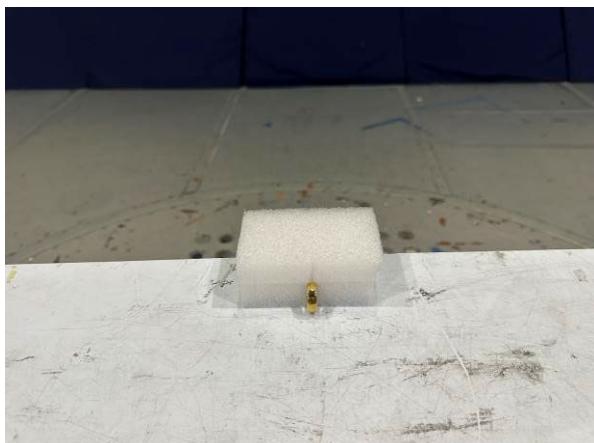
4.5.5 Test Setup Configuration

The following photographs show the testing configurations used.

Normal Mode



Charging Mode

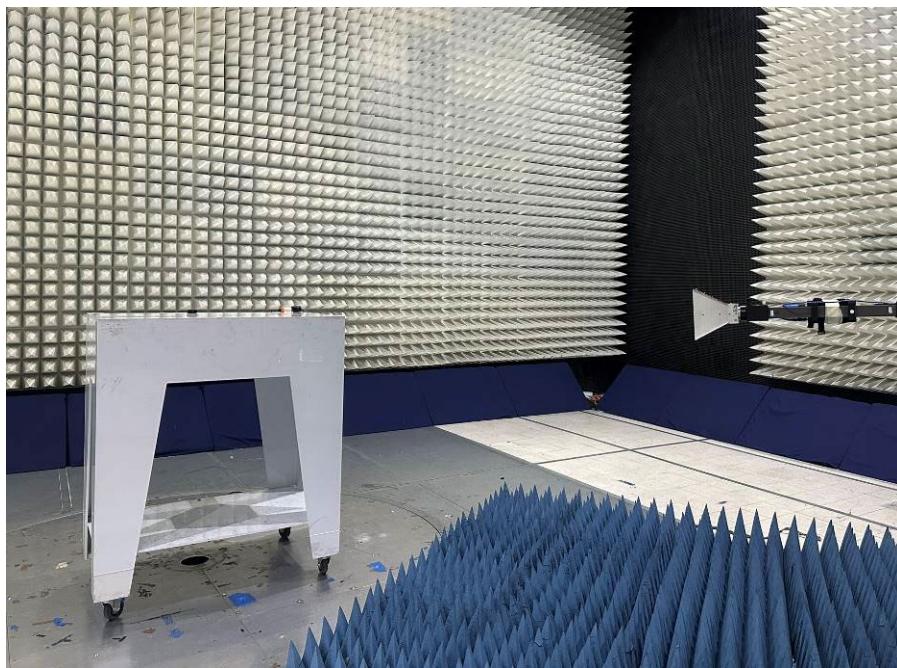
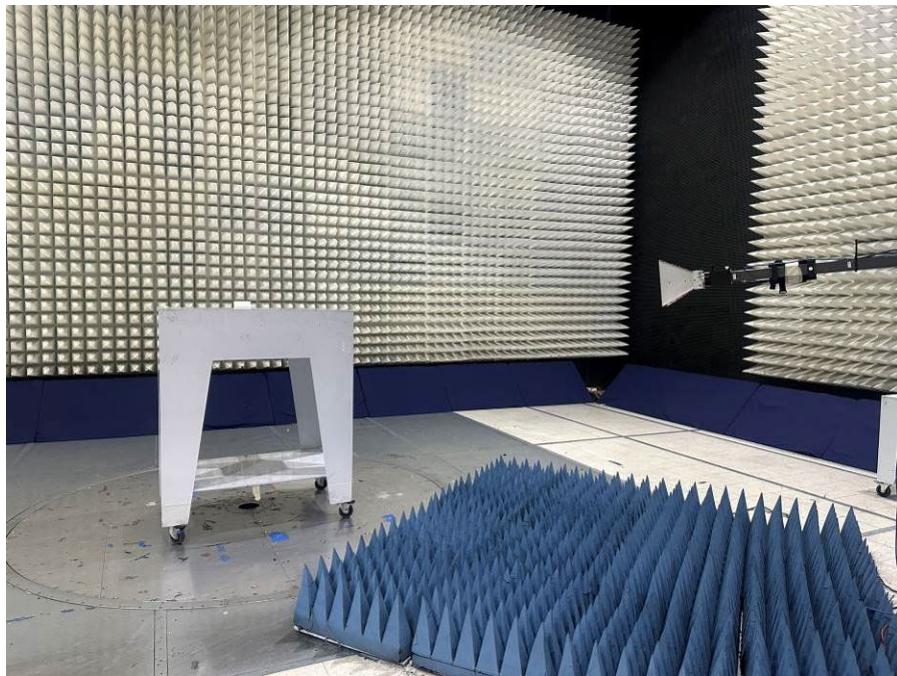


4.5.5 Test Setup Configuration (Continued)

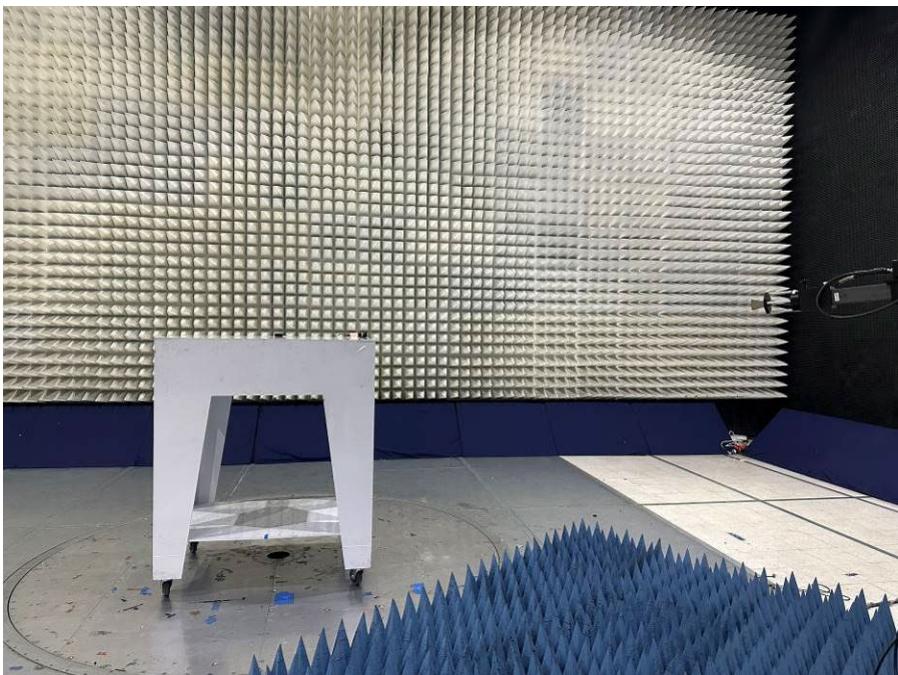
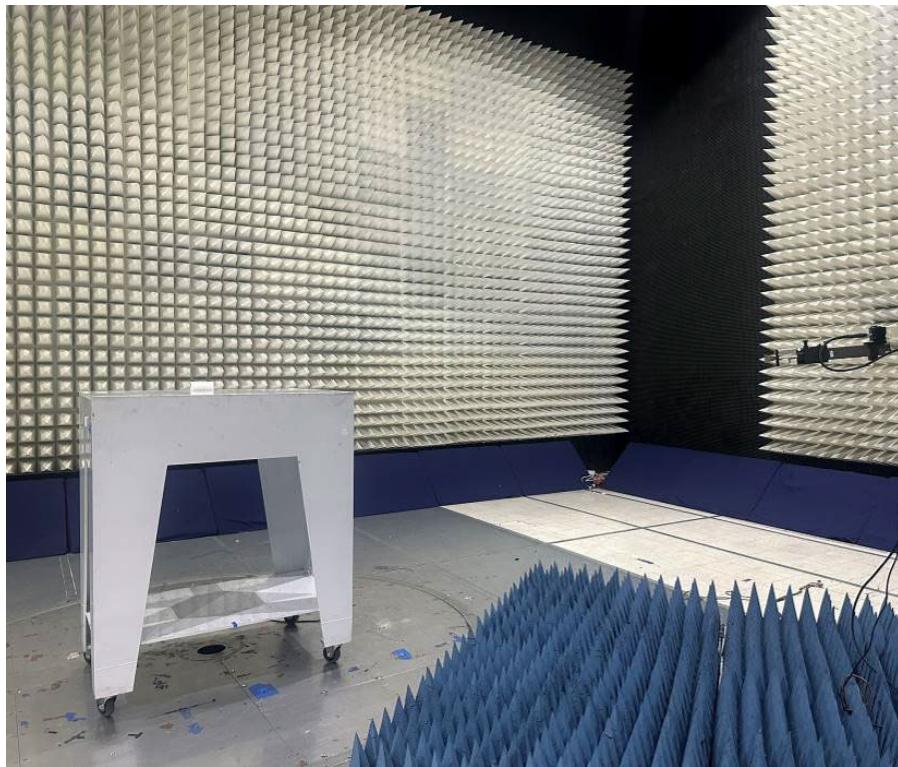




4.5.5 Test Setup Configuration (Continued)



4.5.5 Test Setup Configuration (Continued)



4.6 AC Line Conducted Emission
FCC: 15.207; RSS-GEN;

4.6.1 Requirement

Frequency Band MHz	Class B Limit dB(µV)		Class A Limit dB(µV)	
	Quasi-Peak	Average	Quasi-Peak	Average
0.15-0.50	66 to 56 *	56 to 46 *	79	66
0.50-5.00	56	46	73	60
5.00-30.00	60	50	73	60

*Note: *Decreases linearly with the logarithm of the frequency. At the transition frequency the lower limit applies.*

4.6.2 Procedure

Measurements are carried out using quasi-peak and average detector receivers in accordance with CISPR 16. An AMN is required to provide a defined impedance at high frequencies across the power feed at the point of measurement of terminal voltage and also to provide isolation of the circuit under test from the ambient noise on the power lines. An AMN as defined in CISPR 16 shall be used.

The EUT is located so that the distance between the boundary of the EUT and the closest surface of the AMN is 0.8m.

Where a flexible mains cord is provided by the manufacturer, this shall be 1m long or if in excess of 1m, the excess cable is folded back and forth as far as possible so as to form a bundle not exceeding 0.4m in length.

The EUT is arranged and connected with cables terminated in accordance with the product specification.

Conducted disturbance is measured between the phase lead and the reference ground, and between the neutral lead and the reference ground. Both measured values are reported.

The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. A vertical, metal reference plane is placed 0.4m from the EUT. The vertical metal reference-plane is at least 2m by 2m. The EUT shall be kept at least 0.8m from any other metal surface or other ground plane not being part of the EUT. The table is constructed of non-conductive materials. Its dimensions are 1m by 1.5m, but may be extended for larger EUT.

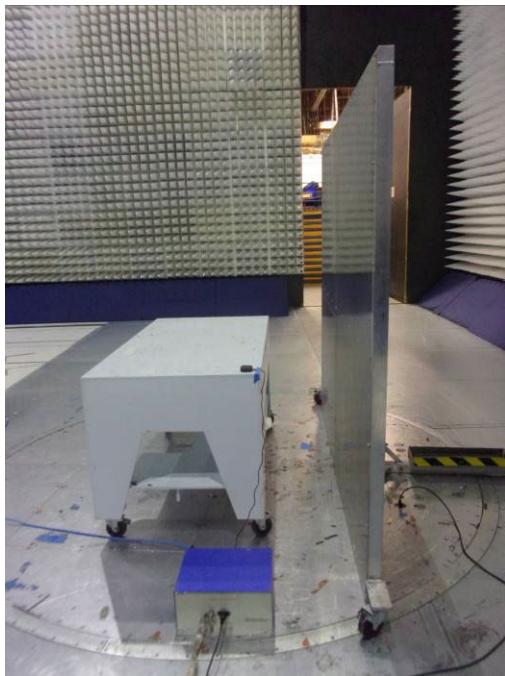
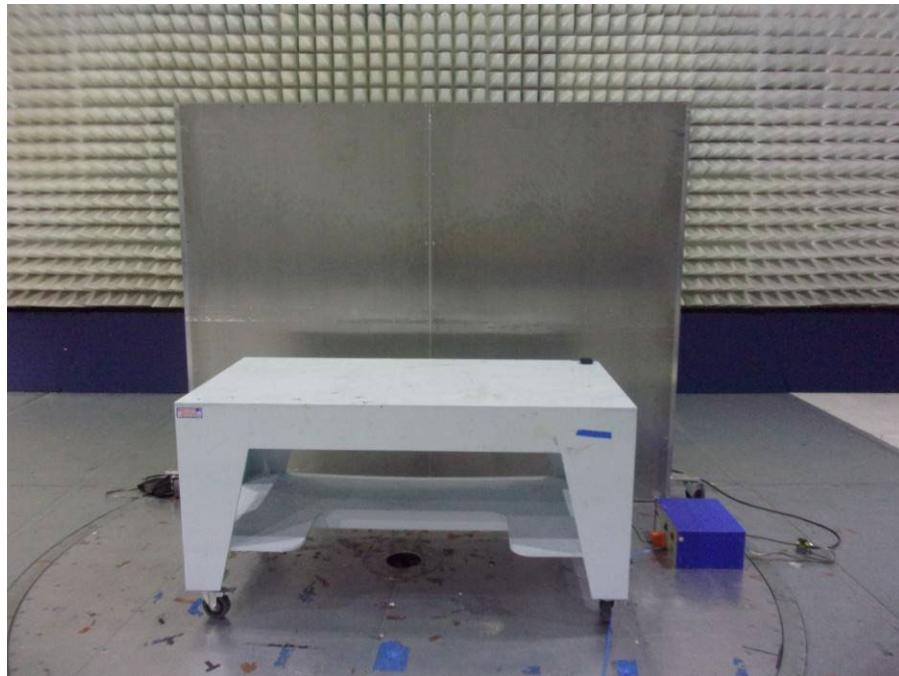
Floor standing EUT are placed on a horizontal metal ground plane and isolated from the ground plane by resting on an insulating material. The metal ground plane extends at least 0.5m beyond the boundaries of the EUT and has minimum dimensions of 2m by 2m.

Equipment setup for conducted disturbance tests followed the guidelines of ANSI C63.10-2013.

4.6.3 Test Result

Tested By	Test Date	Results
Gabriel Carreon	November 20, 2023	Complies

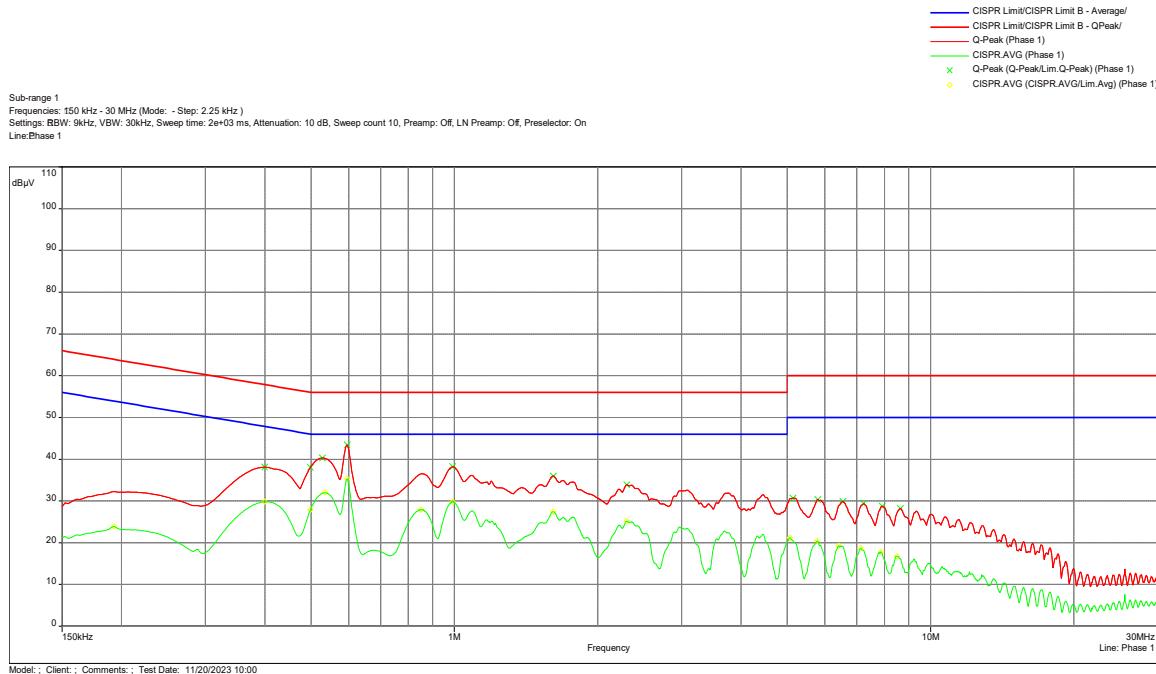
4.6.4 Setup Photograph



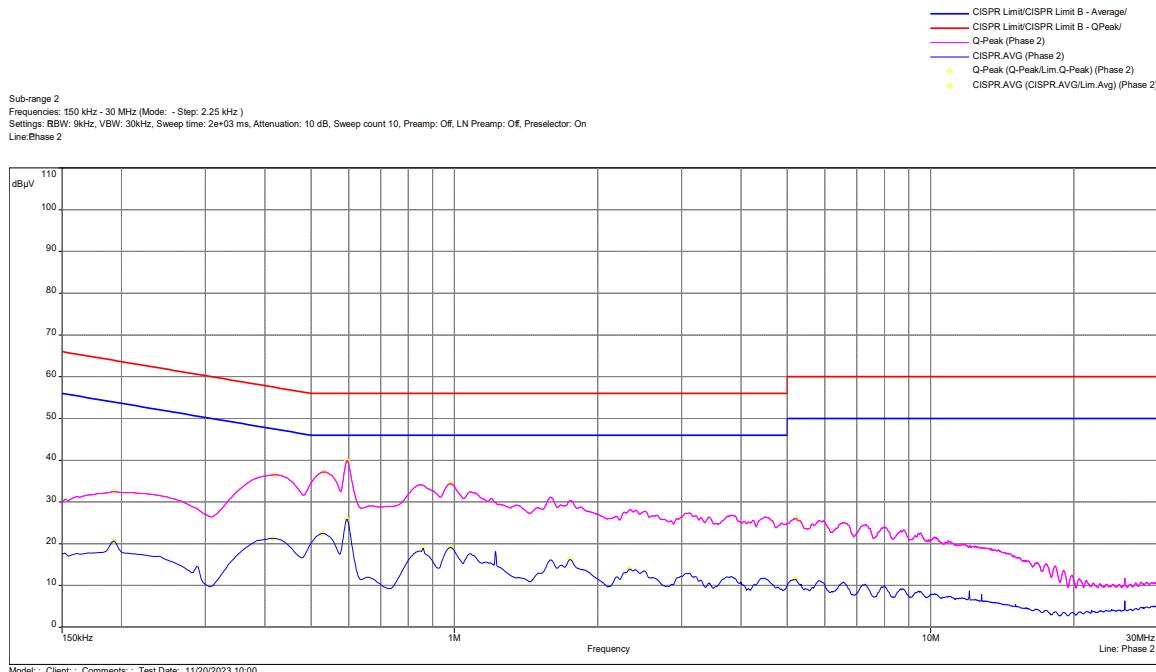
4.6.5 Plot/Data

Conducted Disturbance @ 120 Vac 60 Hz

Phase 1



Phase 2



Frequency (MHz)	Peak (dB μ V)	Lim.Q-Peak (dB μ V)	Margin dB	Line	Correction (dB)
0.5955	43.43	56.00	-12.57	Phase 1	10.57
0.5280	40.28	56.00	-15.72	Phase 1	10.57
0.5955	39.91	56.00	-16.09	Phase 2	10.57
0.9915	38.17	56.00	-17.83	Phase 1	10.59
0.4988	38.06	56.02	-17.96	Phase 1	10.57
0.5325	37.18	56.00	-18.82	Phase 2	10.57
0.3998	38.09	57.86	-19.77	Phase 1	10.56
1.6125	35.98	56.00	-20.02	Phase 1	10.63
0.4200	36.52	57.45	-20.93	Phase 2	10.56
0.9825	34.38	56.00	-21.62	Phase 2	10.59
2.3033	33.85	56.00	-22.15	Phase 1	10.67
5.1428	30.67	60.00	-29.33	Phase 1	10.82
5.7998	30.34	60.00	-29.66	Phase 1	10.84
6.5513	29.89	60.00	-30.11	Phase 1	10.86
7.2353	29.36	60.00	-30.64	Phase 1	10.88
7.9148	28.71	60.00	-31.29	Phase 1	10.89
0.1928	32.47	63.92	-31.45	Phase 2	10.54
8.6483	28.20	60.00	-31.80	Phase 1	10.91
5.2283	26.08	60.00	-33.92	Phase 2	10.82

Frequency (MHz)	CISPR.AVG (dB μ V)	Lim.Avg (dB μ V)	Margin (dB)	Line	Correction (dB)
0.5955	35.31	46.00	-10.69	Phase 1	10.57
0.5348	31.99	46.00	-14.01	Phase 1	10.57
0.9915	29.81	46.00	-16.19	Phase 1	10.59
0.3998	29.83	47.86	-18.03	Phase 1	10.56
0.8498	27.94	46.00	-18.06	Phase 1	10.58
0.4988	27.96	46.02	-18.06	Phase 1	10.57
1.6125	27.47	46.00	-18.53	Phase 1	10.63
0.5955	25.85	46.00	-20.15	Phase 2	10.57
2.3010	25.17	46.00	-20.83	Phase 1	10.67
0.5280	22.46	46.00	-23.54	Phase 2	10.57
0.4155	21.29	47.54	-26.25	Phase 2	10.56
0.9825	19.10	46.00	-26.90	Phase 2	10.59
0.8588	18.92	46.00	-27.08	Phase 2	10.59
5.0663	21.22	50.00	-28.78	Phase 1	10.82
5.7818	20.47	50.00	-29.53	Phase 1	10.84
1.7520	16.19	46.00	-29.81	Phase 2	10.64
0.1928	23.88	53.92	-30.03	Phase 1	10.54
6.4118	19.30	50.00	-30.70	Phase 1	10.85
7.1318	18.68	50.00	-31.32	Phase 1	10.87
2.3325	13.92	46.00	-32.08	Phase 2	10.67
7.8765	17.85	50.00	-32.15	Phase 1	10.89
0.1928	20.74	53.92	-33.18	Phase 2	10.54
8.4885	16.80	50.00	-33.20	Phase 1	10.91
5.1990	11.47	50.00	-38.53	Phase 2	10.82

Result:	Complies by 10.69 dB
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5.0 List of Test Equipment

Measurement equipment used for compliance testing utilized the equipment on the following list:

Equipment	Manufacturer	Model/Type	Asset #	Cal Int	Cal Due
EMI Receiver	Rohde and Schwarz	ESU40	ITS 00961	12	03/14/24
Horn Antenna (1-18GHz)	ETS-Lindgren	3115	ITS 00982	12	05/22/2024
1-18GHz Preamplifier	uComp Nordic	MCN-40-001018002510P	ITS 01817	12	02/16/24
Pyramidal Horn Antenna	EMCO	3160-09	ITS 00571	#	#
18-40GHz Preamp	uComp Nordic	MCNS-50-18004000335P	ITS 01799	12	03/15/2024
Loop Antenna	EMCO	6512	ITS 01598	12	06/21/2024
BI-Log Antenna	EMI Receiver	Rohde and Schwarz	ITS 01577	12	02/20/24
Pre-Amplifier	Sonoma Instrument	310N	ITS 00415	12	05/17/2024
150kHz to 30MHz LISN	COM-POWER	LIN-115A	ITS 01288	12	07/31/24

No Calibration required

Software used for emission compliance testing utilized the following:

Name	Manufacturer	Version	Template/Profile
BAT-EMC	Nexio	3.20.0.23	Movano.bpp

6.0 Document History

Revision/ Job Number	Writer Initials	Reviewers Initials	Date	Change
1.0 /G105658950	GC	AS	December 04, 2023	Original document
2.0 /G105658950	GC	AS	December 12, 2023	Updated Antenna Gain information in section 2.0
3.0 /G105658950	GC	AS	December 18, 2023	Updated report per TCB comments.

END OF REPORT