

TEST REPORT
Class 2 Permissive Change

Report Number: 105964951MPK-052

Project Numbers G105964951

Report Issue Date: April 16, 2025

Testing performed on
Communication Badge
Model Number: B7000

FCC ID: Z7AB7000

IC: 4919E-B7000

to

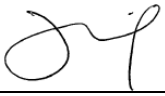
FCC Part 15 Subpart C (15.247)
ISED RSS-247 Ed. 3

For

Stryker Medical

Test Performed by:
Intertek
1365 Adams Court
Menlo Park, CA 94025 USA

Test Authorized by:
Stryker Medical
3030 Orchard Parkway
San Jose, CA 95134 USA

Prepared by: 

Gabriel Angelo Carreon

Date: April 16, 2025

Reviewed by: 

Anderson Soungpanya

Date: April 16, 2025

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Report No. 105964951MPK-052	
Equipment Under Test:	Communication Badge
Model Number:	B7000
Applicant:	Stryker Medical
Contact:	Lionel Gabrillo
Address:	3030 Orchard Parkway San Jose, CA 95134
Country:	USA
Tel. Number:	1 (408)-882-4564
Email:	lionel.gabrillo@stryker.com
Applicable Regulation:	FCC Part 15 Subpart C (15.247) ISED RSS-247 Issue 3
Date of Test:	April 10, 2025 to April 25, 2025

We attest to the accuracy of this report:



Gabriel Carreon
EMC Project Engineer



Anderson Soungpanya
EMC Team Leader

TABLE OF CONTENTS

1.0	Summary of Tests	4
2.0	General Description	5
2.1	Product Description	5
2.2	Related Submittal(s) Grants.....	6
2.4	Test Methodology.....	6
3.0	System Test Configuration	8
3.1	Support Equipment.....	8
3.2	Block Diagram of Test Setup	8
3.3	Justification	11
3.4	Mode of Operation During Test.....	11
3.5	Modifications Required for Compliance	11
3.6	Additions, Deviations and Exclusions from Standards.....	11
4.0	Emissions Measurement Results.....	12
4.1	Conducted Output Power at Antenna Terminals	12
4.2	Transmitter Radiated Emissions	23
5.0	List of Test Equipment	93
6.0	Document History.....	94

1.0 Summary of Tests

Test	Reference FCC	Reference Industry Canada	Result
RF Output Power	15.247(b)	RSS-247, 5.4.b)	Complies
Transmitter Radiated Emissions	15.247(d), 15.209, 15.205	RSS-247, 5.5	Complies

*Class 2 Permissive change: Perform only Output Power, Radiated Spurious and Restricted band edge.

EUT receive date: November 19, 2024

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: April 10, 2024

Test completion date: April 15, 2024

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

2.0 General Description

2.1 Product Description

Stryker Medical supplied the following description of the EUT:

A small, lightweight, wearable communication device powered by a removable, rechargeable Lithium-Ion battery. It is designed to simplify hospital communication and workflow and improve staff safety. A user can “wake up” and operate the device using only their voice, to stay connected even under restrictive PPE. They can make and receive calls and listen and respond to messages and alarm notifications. The badge contains a 1.2” color display with an array of microphones, a hands-free speaker and an audio receiver. A headset can also be used with the badge either through the USB-C port or Bluetooth connection.

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

Information about the 2.4 GHz radio is presented below:

Applicant	Stryker Medical
Model No.	B7000
FCC Identifier	Z7AB7000
IC Identifier	4919E-B7000
Type of Transmission	Frequency Hopping Spread Spectrum
Rated RF Output	2.48 dBm
Antenna(s) & Gain	Internal Antenna, Gain: 2.76 dBi
Frequency Range	2402 – 2480 MHz
Number of Channel(s)	79 Channels
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Data Rate	Up to 3Mbit/s
Applicant Name & Address	Stryker Medical 3030 Orchard Parkway San Jose, CA 95134 USA

2.2 Related Submittal(s) Grants

None.

2.3 Test Facility

The test site used to collect the radiated data is site 1 (3-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

Antenna conducted measurements were performed according to the FCC documents "Guidance for Performing Compliance Measurement on Digital Transmission Systems, Frequency Hopping Spread Spectrum System, and Hybrid System devices Operating under §15.247" (KDB 558074 D01 15.247 Meas Guidance v05r02), RSS-247 Issue 2, ANSI C63.10: 2013 and 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.

Following is the channel test plan:

Channels in 2.4 GHz band			
Test Channel		Frequency, MHz	Tested
Low	0	2402	√
Middle	39	2440	√
High	78	2480	√
Hopping Mode	0-78	2402 - 2480	

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

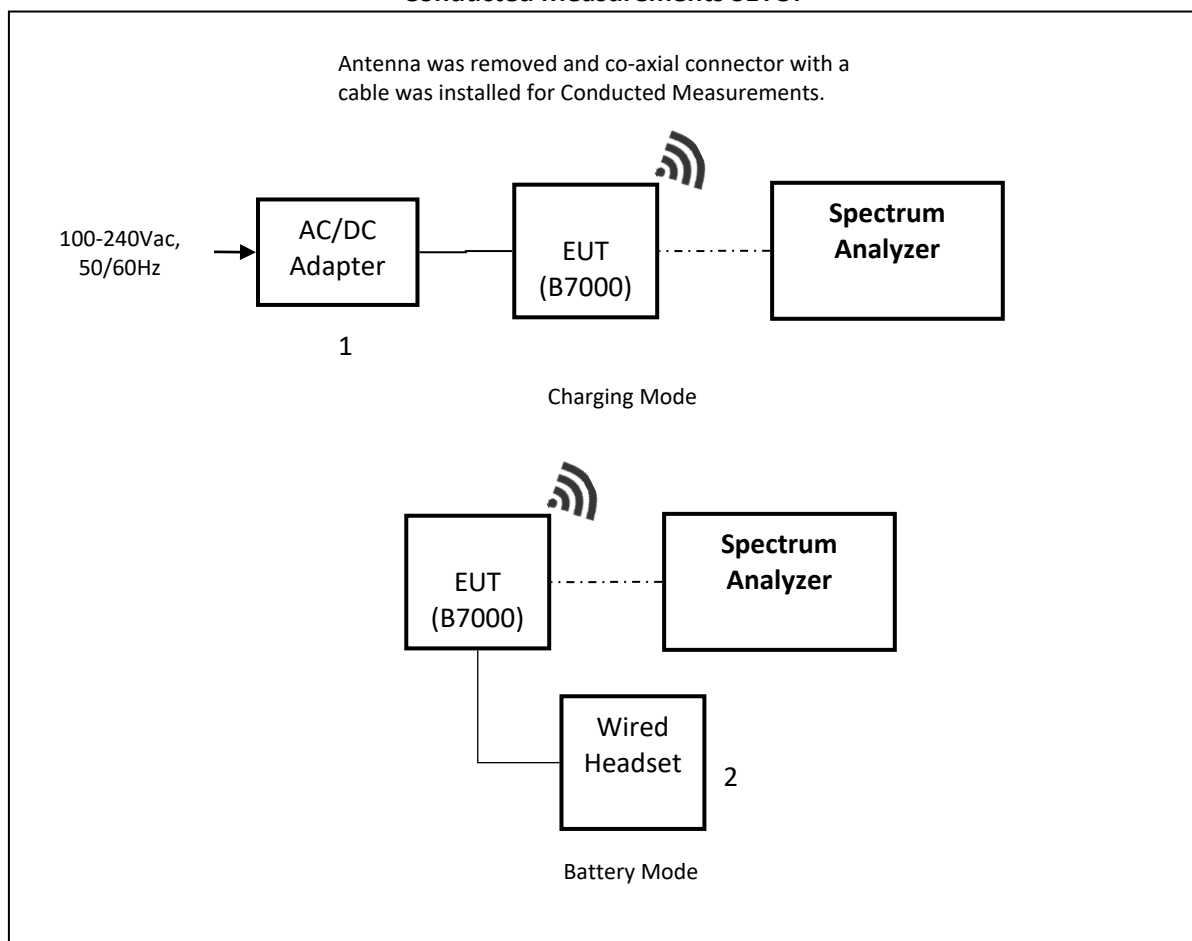
3.1 Support Equipment

Support Equipment				
ID	Description	Manufacturer	Model Number	Serial Number
1	AC/DC Adapter	Vocera	WB-10E05R	D1713N55000033
2	Wired Headset	Stryker Medical	230-02162	N/A

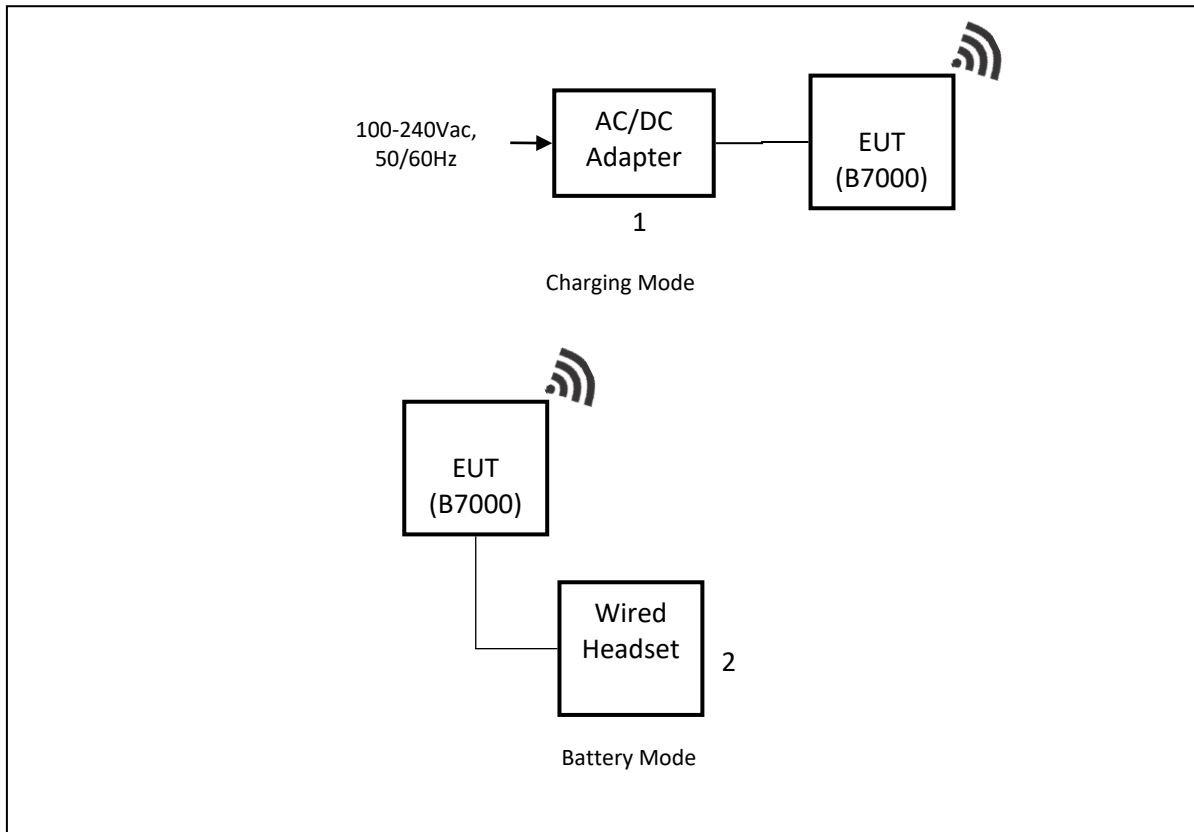
3.2 Block Diagram of Test Setup

Equipment Under Test			
Description	Manufacturer	Model	Serial Number
Communication Badge (Conducted Sample)	Stryker Medical	B7000	MA3304M78005EA
Communication Badge (Radiated Sample)	Stryker Medical	B7000	MA3304M78006FD

Conducted Measurements SETUP



Radiated Measurements SETUP



EUT Photos



3.3 Justification

For radiated emission measurements the EUT is placed on a non-conductive table. The EUT was configured to continuously transmit.

Power was intentionally set by Stryker to be lower than what's on the grant (FCC ID: VPYLBEE5XV2EA) for the approved module for Bluetooth Classic + EDR. See section 4.1 for output power level.

3.4 Mode of Operation During Test

During transmitter testing, the transmitter was setup to transmit continuously at maximum RF power on the low channel, middle channel, high channel and with hopping channels enabled.

The Maximum power settings allowed by the manufacturer's provided GUI:

GFSK = 8

$\pi/4$ -DQPSK = 8

8-DPSK = 8

3.5 Modifications Required for Compliance

Intertek installed no modifications during compliance testing in order to bring the product into compliance.

3.6 Additions, Deviations and Exclusions from Standards

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

4.0 Emissions Measurement Results

4.1 Conducted Output Power at Antenna Terminals FCC Rule 15.247(b)(1)

4.1.1 Requirement

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

4.1.2 Procedure

The procedure described in FCC Publication 558074 D01 Meas Guidance v05r02 was used. Specifically, Section 7.8.5 of ANSI C63.10:2013 for Frequency Hopping Spread Spectrum Systems was used to determine the RF Output Power.

- Span = 10 MHz
- RBW = 3 MHz
- VBW = 10 MHz
- Sweep = auto
- Detector function = peak
- Trace = max hold

Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power (see the NOTE above regarding external attenuation and cable loss). The limit is specified in one of the subparagraphs of this Section. Submit this plot.

The antenna port of the EUT was connected to the input of a spectrum analyzer. Power was read directly from the spectrum analyzer and cable loss correction was added to the reading to obtain the power at the antenna terminals.

Tested By	Test Date
Gabriel Carreon	April 10, 2025

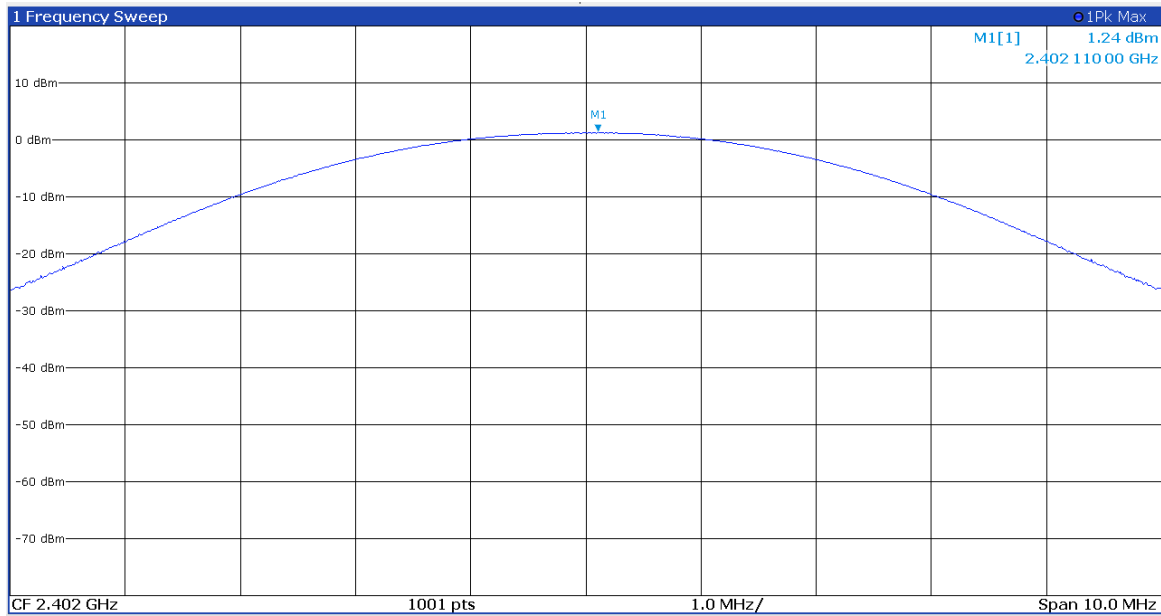
4.1.3 Test Result

Refer to the following plots for the test result:

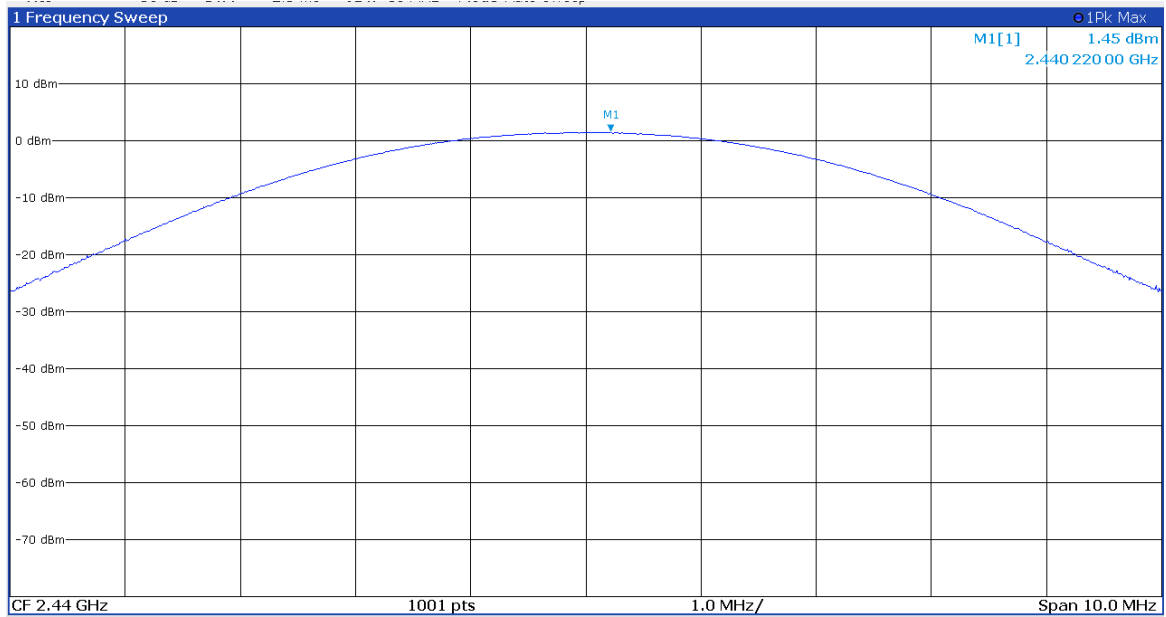
Mode	Frequency MHz	Conducted Peak Power dBm	Conducted Peak Power mW	Plot #
GFSK	2402	1.24	1.33	2.1
	2440	1.45	1.40	2.2
	2480	1.35	1.36	2.3
$\pi/4$ -DQPSK	2402	0.91	1.23	2.4
	2440	1.68	1.47	2.5
	2480	2.18	1.65	2.6
8-DPSK	2402	2.48	1.77	2.7
	2440	2.31	1.70	2.8
	2480	1.80	1.51	2.9

Results	Complies
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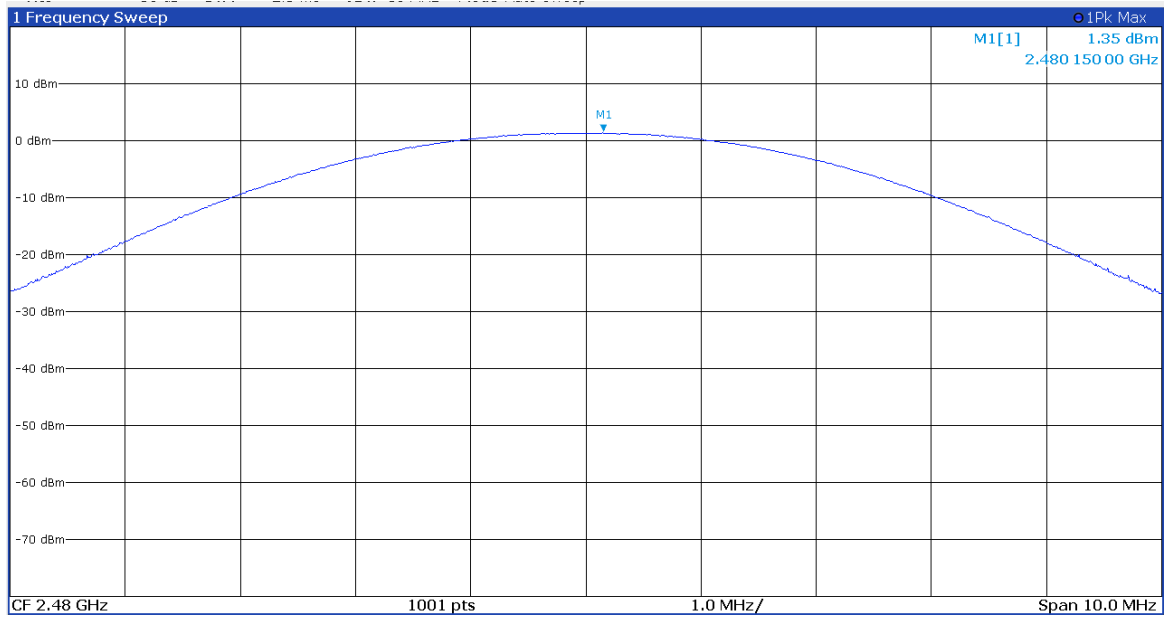
Plot 2.1– Output Power, GFSK, 2402 MHz



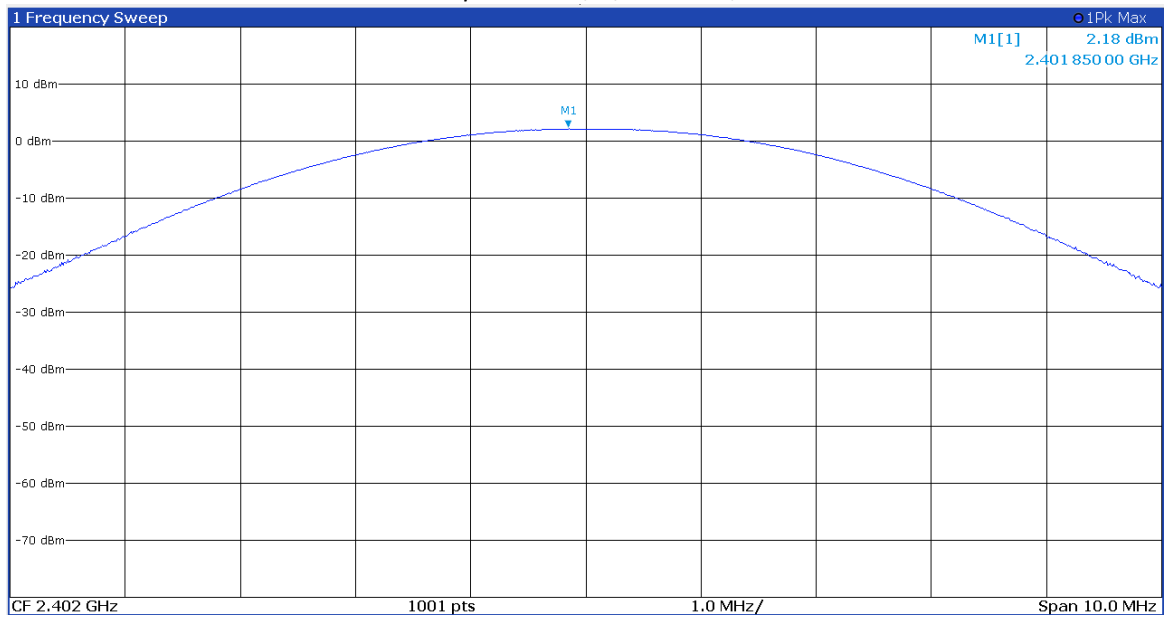
Plot 2.2 – Output Power, GFSK, 2440 MHz



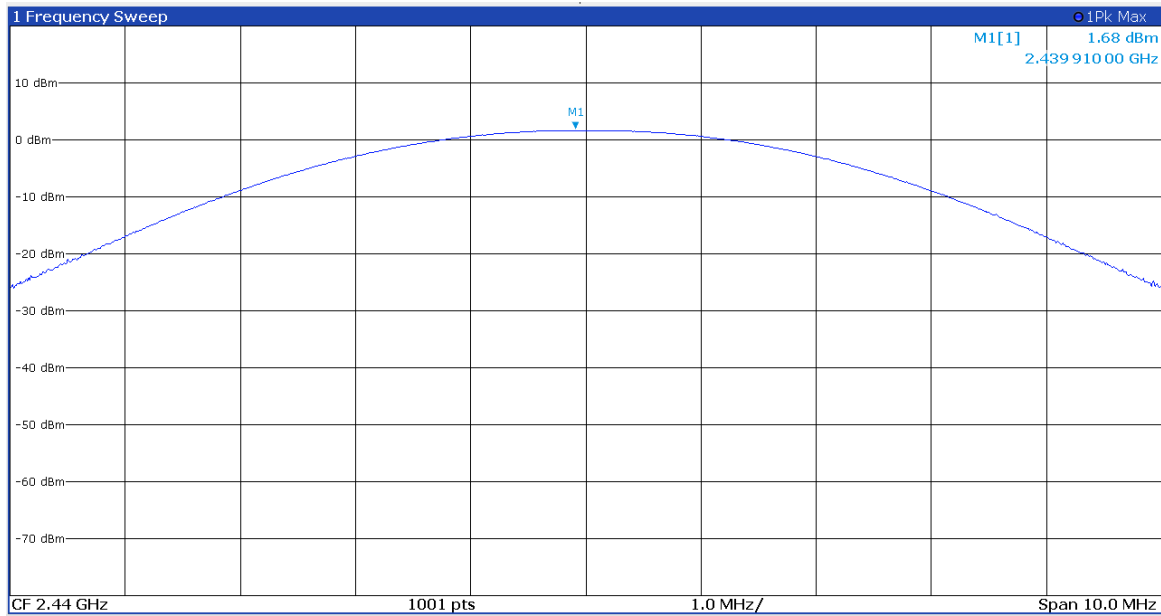
Plot 2.3 – Output Power, GFSK, 2480 MHz



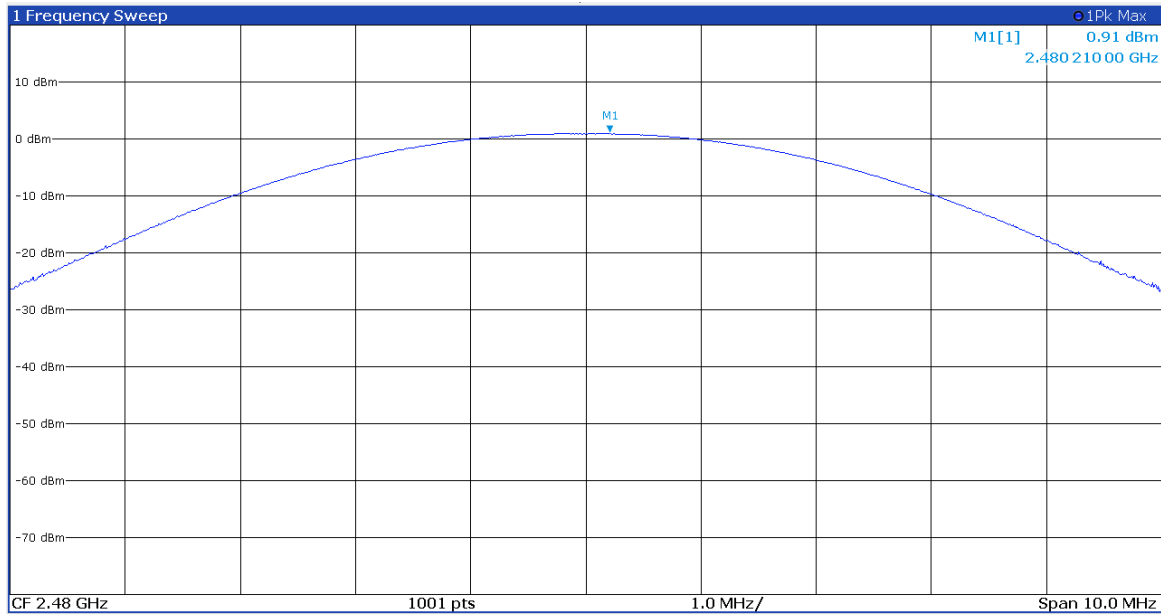
Plot 2.4 – Output Power, $\pi/4$ -DQPSK, 2402 MHz



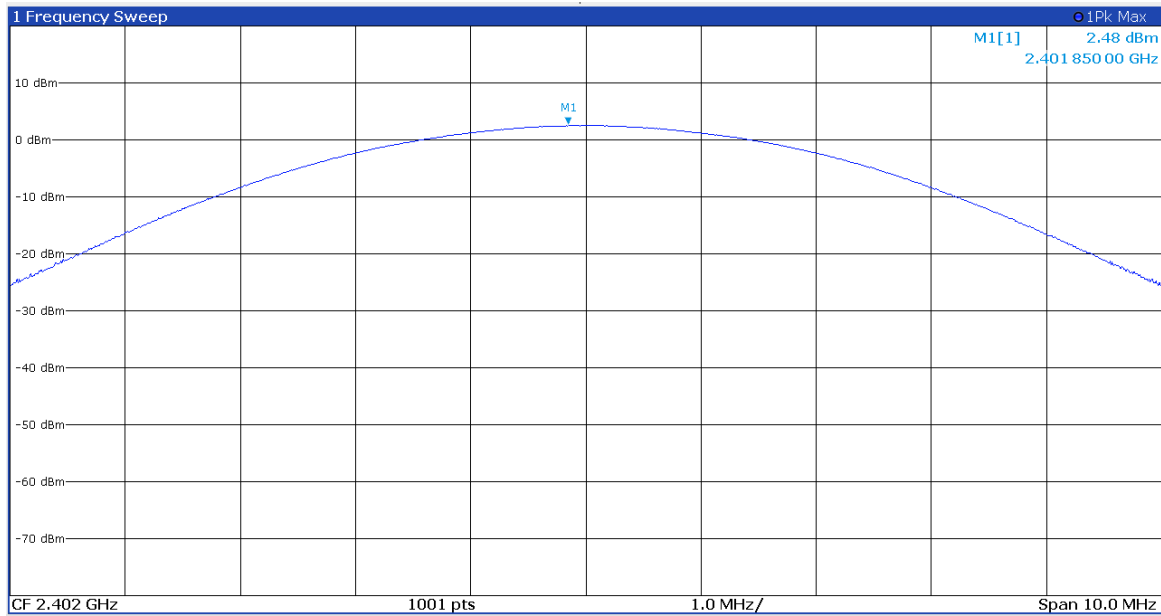
Plot 2.5 – Output Power, $\pi/4$ -DQPSK, 2440 MHz



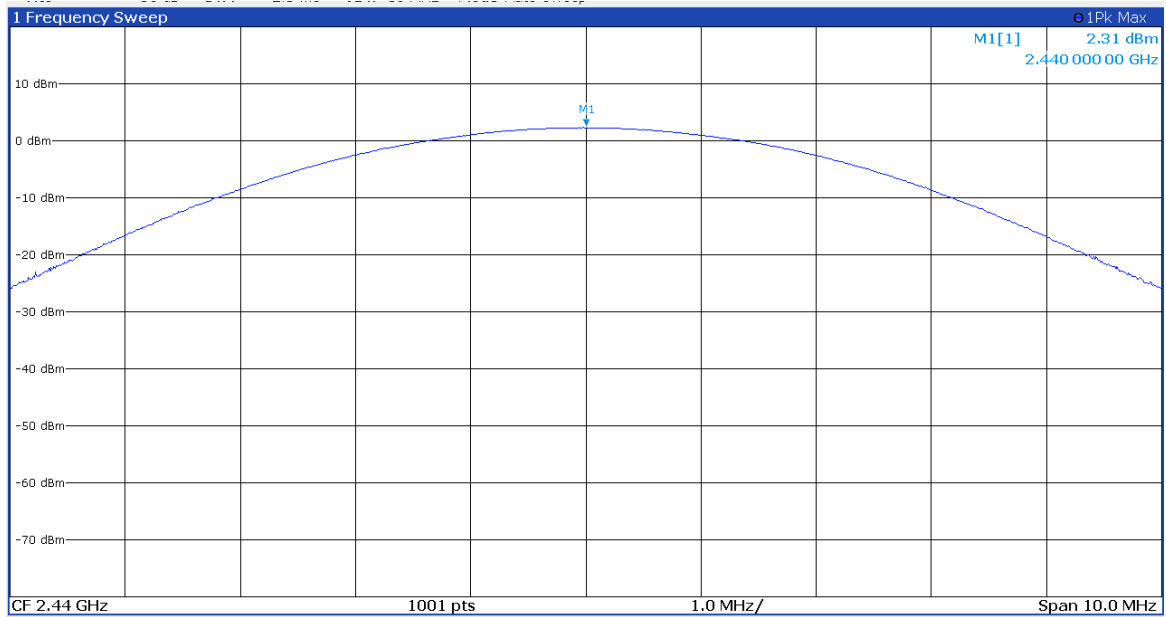
Plot 2.6 – Output Power, $\pi/4$ -DQPSK, 2480 MHz



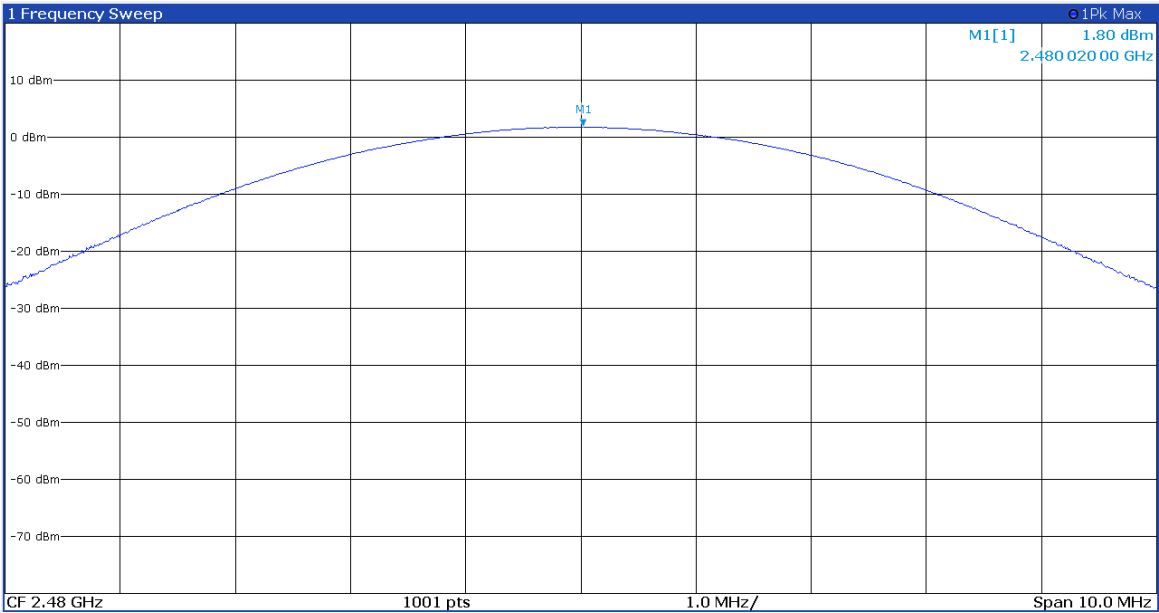
Plot 2.7 – Output Power, 8-DPSK, 2402 MHz



Plot 2.8 – Output Power, 8-DPSK, 2440 MHz



Plot 2.9 – Output Power, 8-DPSK, 2480 MHz



Results	Complies
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4.2 Transmitter Radiated Emissions FCC Rules: 15.247(d), 15.209, 15.205; RSS-247, 5.5;

4.2.1 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.

4.2.2 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 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.

Radiated measurements were performed on the X, Y and Z orientation of the EUT. Data is presented with the worst-case configuration (the configuration which resulted in the highest emission levels).

4.2.3 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

$FS = 52.0 + 7.4 + 1.6 - 29.0 = 32 \text{ dB}(\mu\text{V/m})$.

Level in μ V/m = Common Antilogarithm $[(32 \text{ dB}\mu\text{V/m})/20] = 39.8 \mu\text{V/m}$.

4.2.4 Test Results

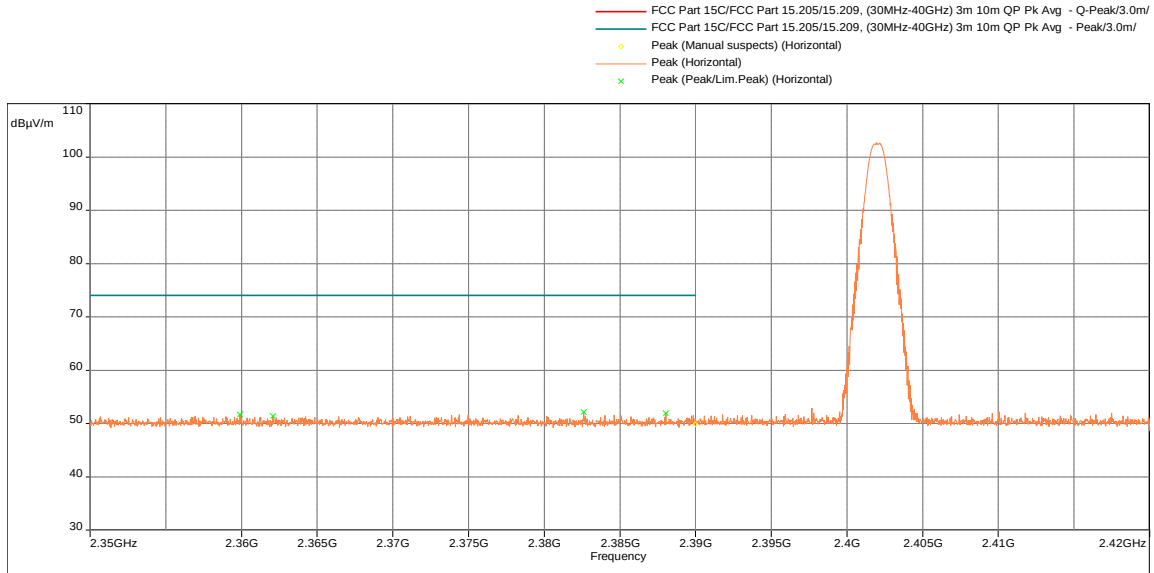
All testing in this section were performed by radiated measurements.

Tested By	Test Date
Gabriel Carreon	April 10 - 14, 2025

Test Results: 15.209/15.205 Radiated Restricted Band Emissions

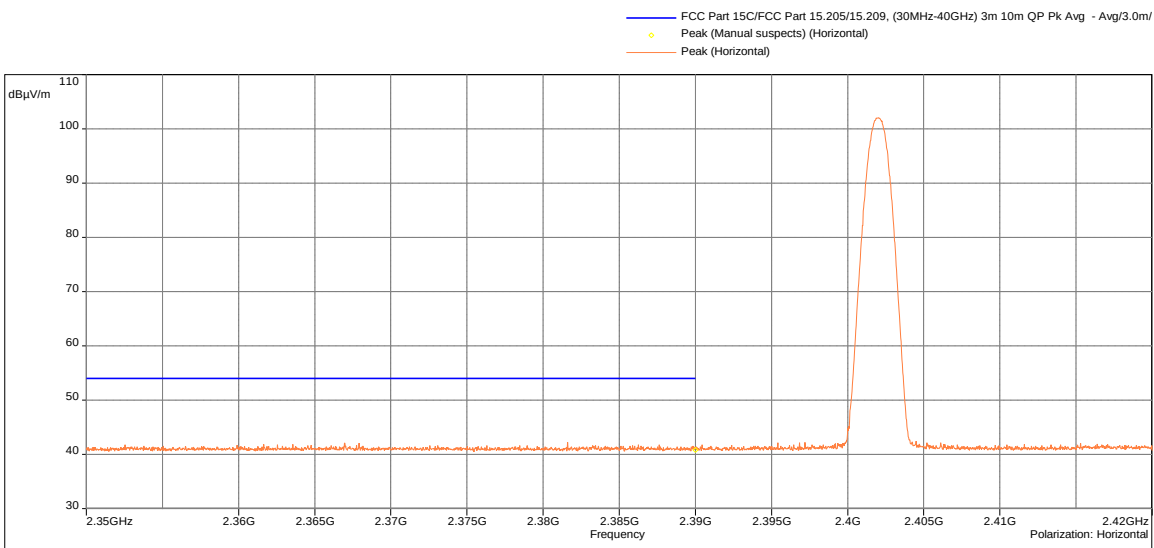
GFSK, Charging Mode

Radiated Band Edge at the Restricted Band – Tx @ Low Channel, Peak



Freq. (MHz)	Peak@3m dB(μV/m)	Peak Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2390.000	49.84	74	-24.16	76.74	30.09

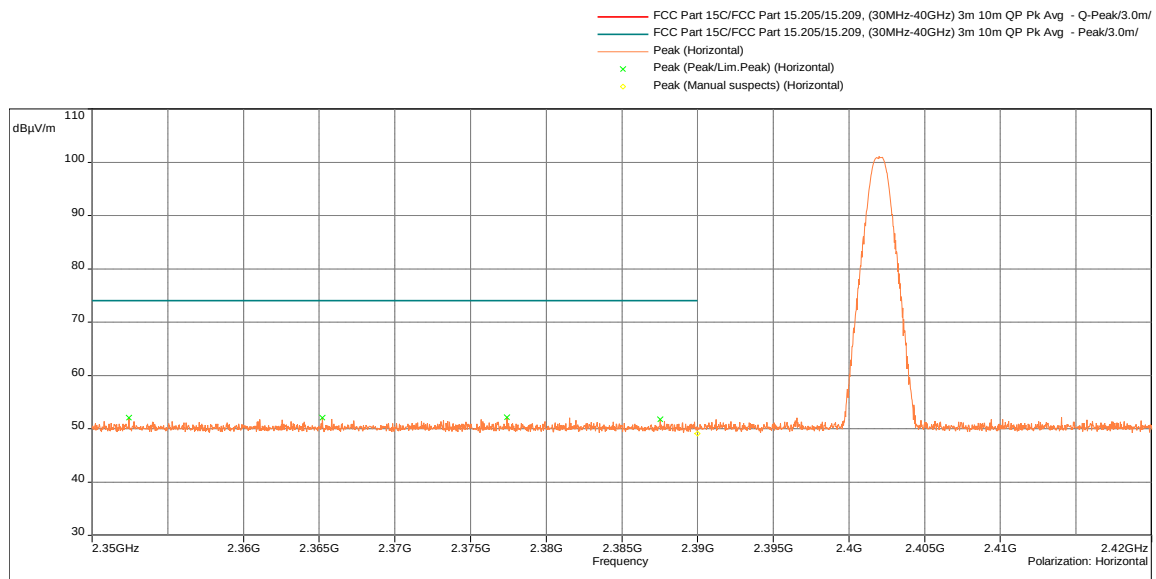
Radiated Band Edge at the Restricted Band – Tx @ Low Channel, Average



Freq. (MHz)	Peak@3m dB(μV/m)	Ave Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2390.000	40.78	54	-13.22	275.30	30.09

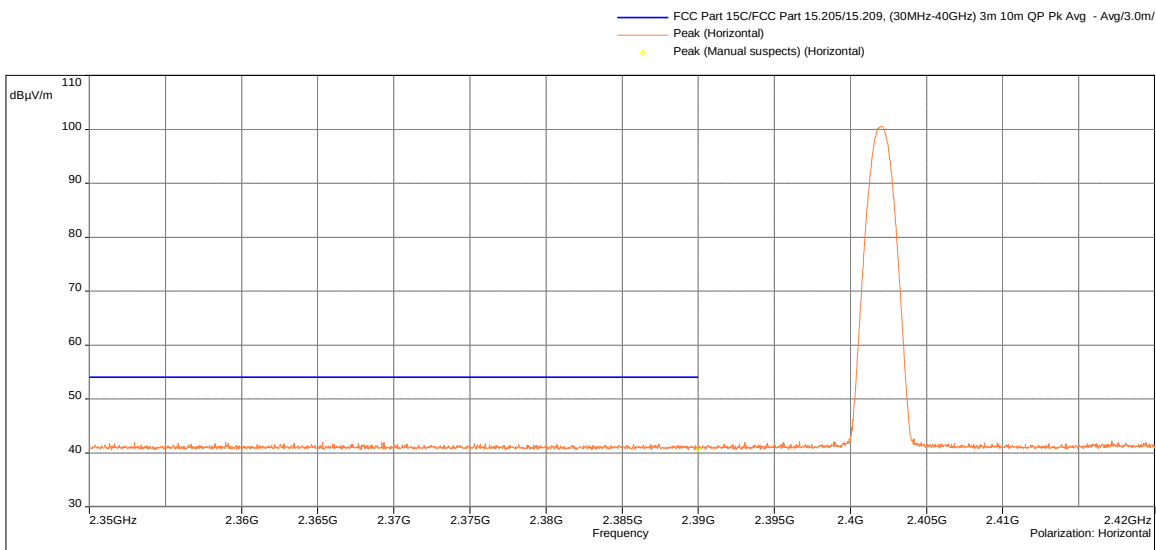
GFSK, Battery Mode

Radiated Band Edge at the Restricted Band – Tx @ Low Channel, Peak



Freq. (MHz)	Peak@3m dB(μV/m)	Peak Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2390.000	49.12	74	-24.88	356.08	30.09

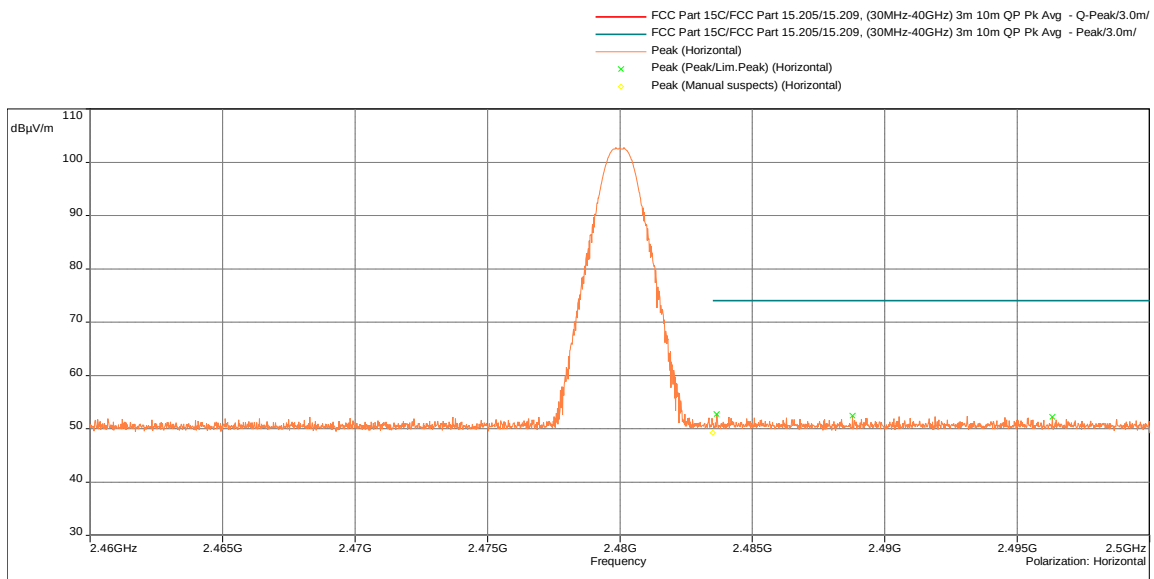
Radiated Band Edge at the Restricted Band – Tx @ Low Channel, Average



Freq. (MHz)	Peak@3m dB(μV/m)	Ave Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2390.000	40.75	54	-13.25	268.14	30.09

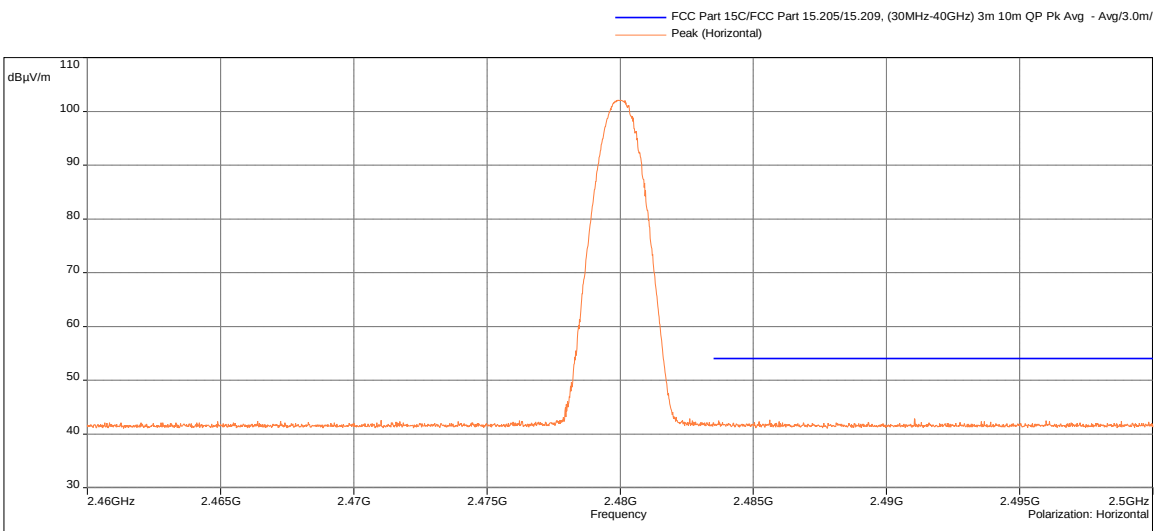
GFSK, Charging Mode

Radiated Band Edge at the Restricted Band – Tx @ High Channel, Peak



Freq. (MHz)	Peak@3m dB(μV/m)	Peak Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2483.5000	49.24	74	-24.76	36.35	30.09

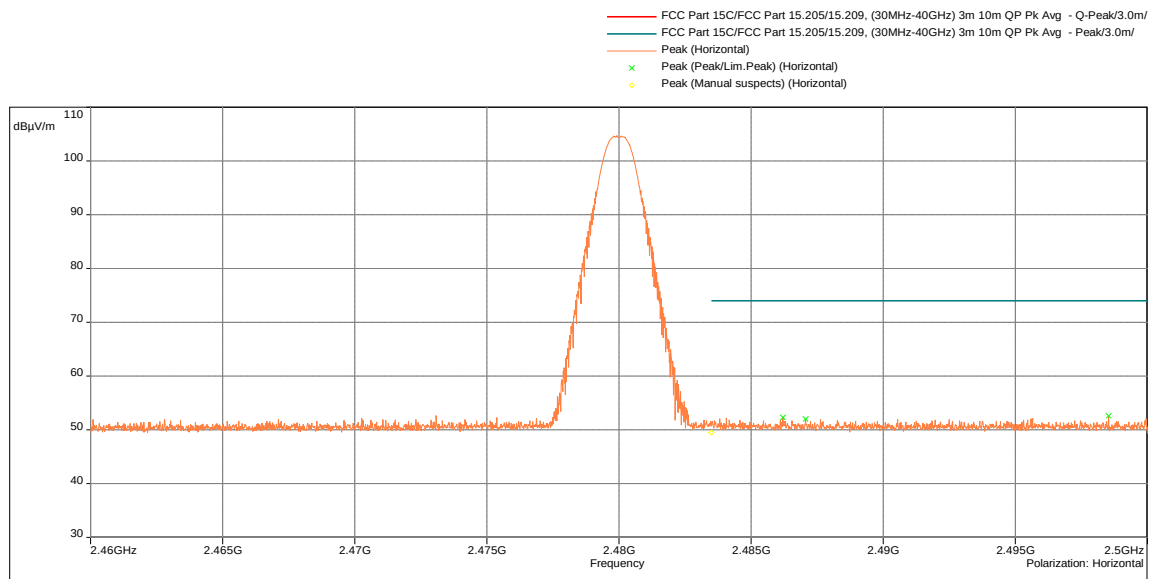
Radiated Band Edge at the Restricted Band – Tx @ High Channel, Average



Freq. (MHz)	Peak@3m dB(μV/m)	Ave Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2483.5000	41.09	54	-12.91	62.40	30.09

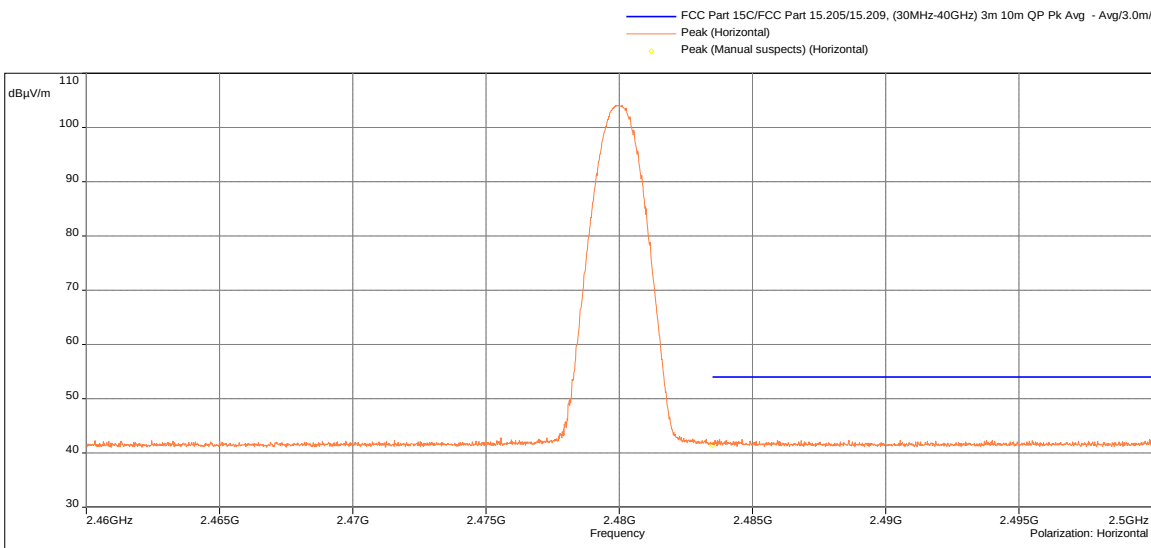
GFSK, Battery Mode

Radiated Band Edge at the Restricted Band – Tx @ High Channel, Peak



Freq. (MHz)	Peak@3m dB(μV/m)	Peak Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2483.5000	49.52	74	-24.48	260.2	30.09

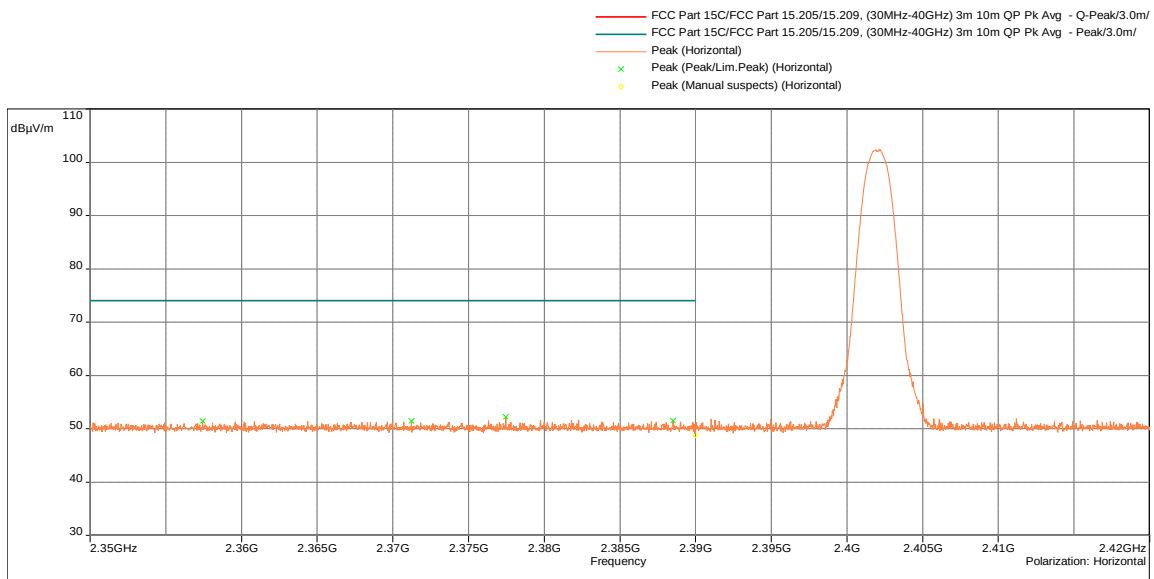
Radiated Band Edge at the Restricted Band – Tx @ High Channel, Average



Freq. (MHz)	Peak@3m dB(μV/m)	Ave Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2483.5000	41.42	54	-12.58	50.27	30.09

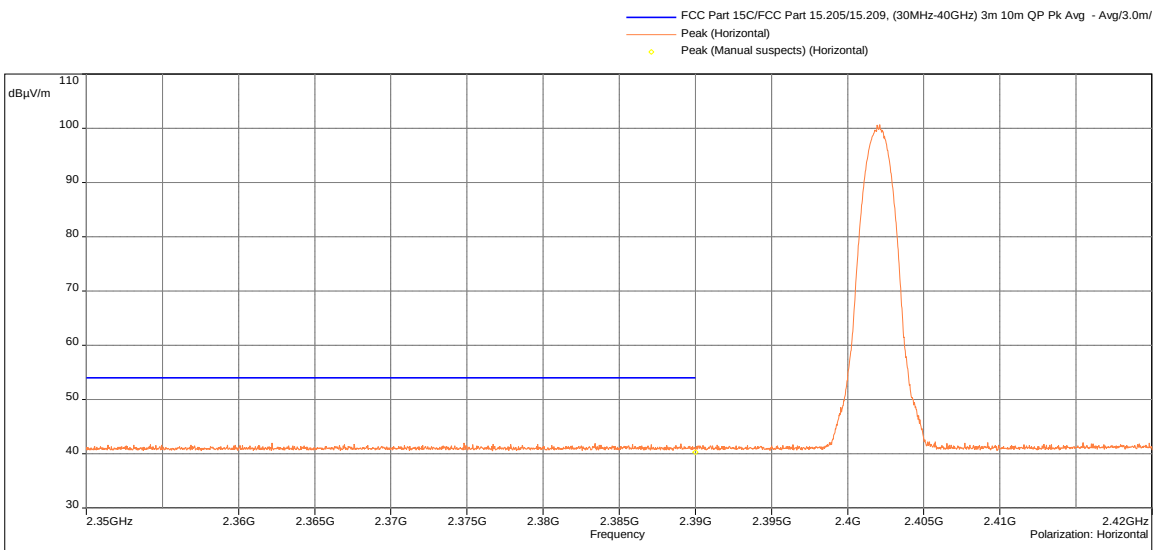
$\pi/4$ -DQPSK, Charging Mode

Radiated Band Edge at the Restricted Band – Tx @ Low Channel, Peak



Freq. (MHz)	Peak@3m dB(μV/m)	Peak Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2390.000	48.82	74	-25.18	54.46	30.09

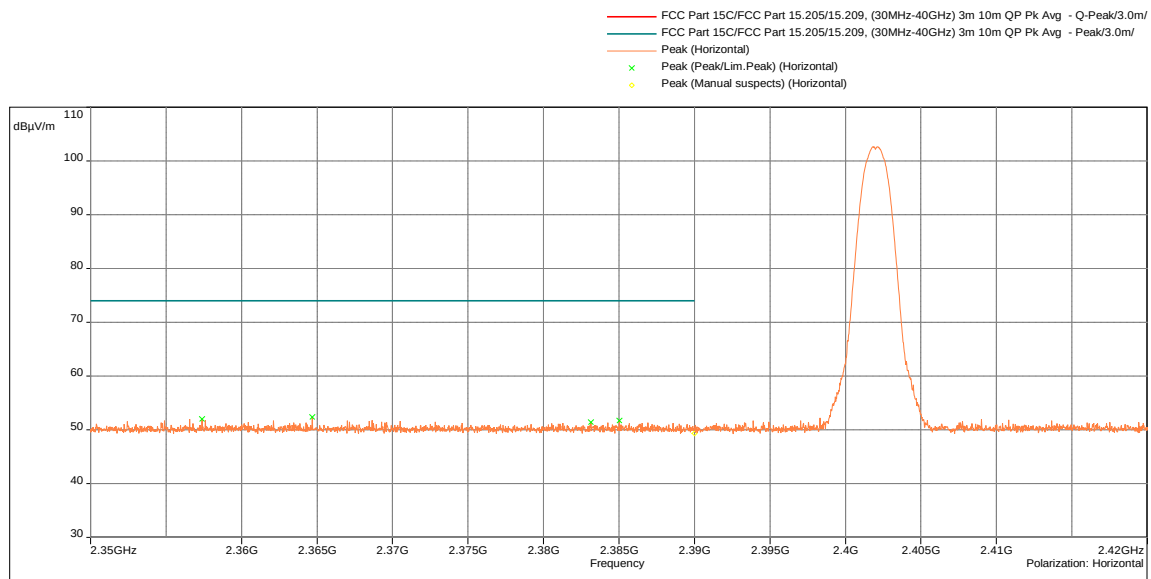
Radiated Band Edge at the Restricted Band – Tx @ Low Channel, Average



Freq. (MHz)	Peak@3m dB(μV/m)	Ave Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2390.000	40.27	54	-13.73	260.97	30.09

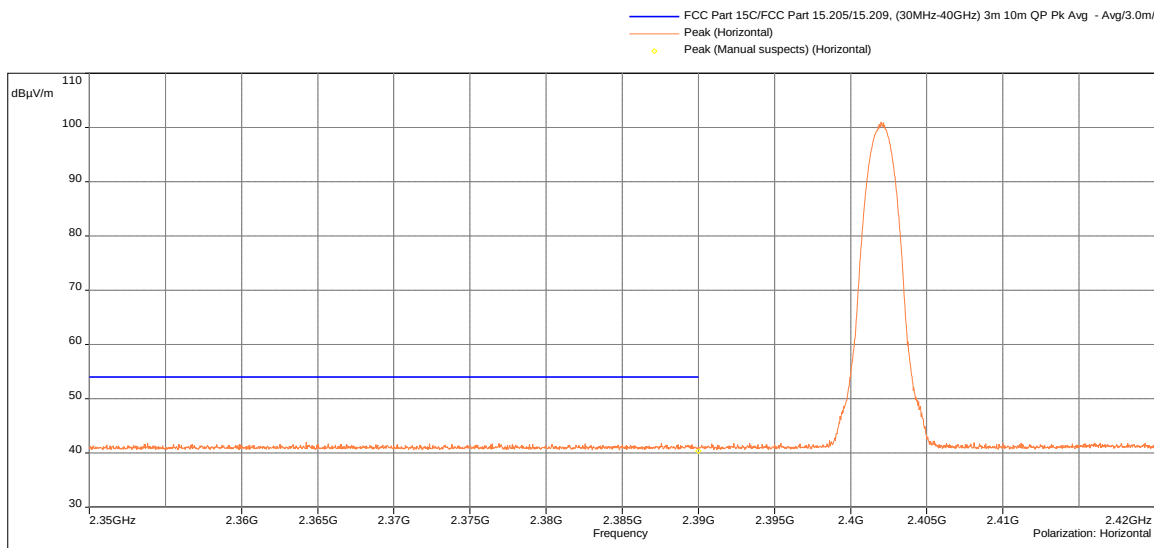
$\pi/4$ -DQPSK, Battery Mode

Radiated Band Edge at the Restricted Band – Tx @ Low Channel, Peak



Freq. (MHz)	Peak@3m dB(μV/m)	Peak Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2390.000	49.33	74	-24.67	3.23	30.09

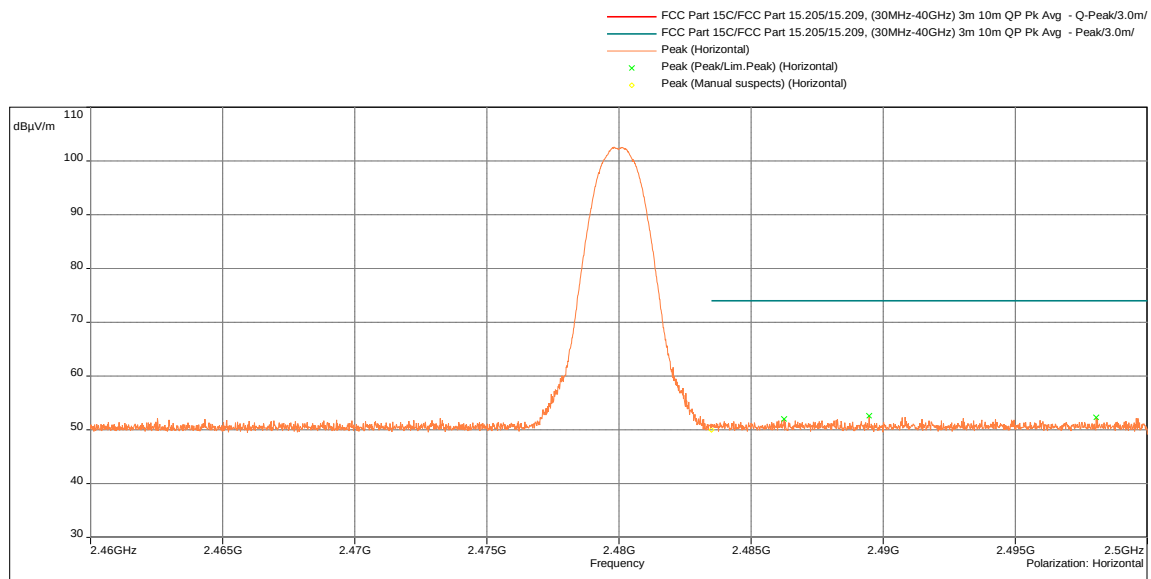
Radiated Band Edge at the Restricted Band – Tx @ Low Channel, Average



Freq. (MHz)	Peak@3m dB(μV/m)	Ave Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2390.000	40.35	54	-13.65	349.71	30.09

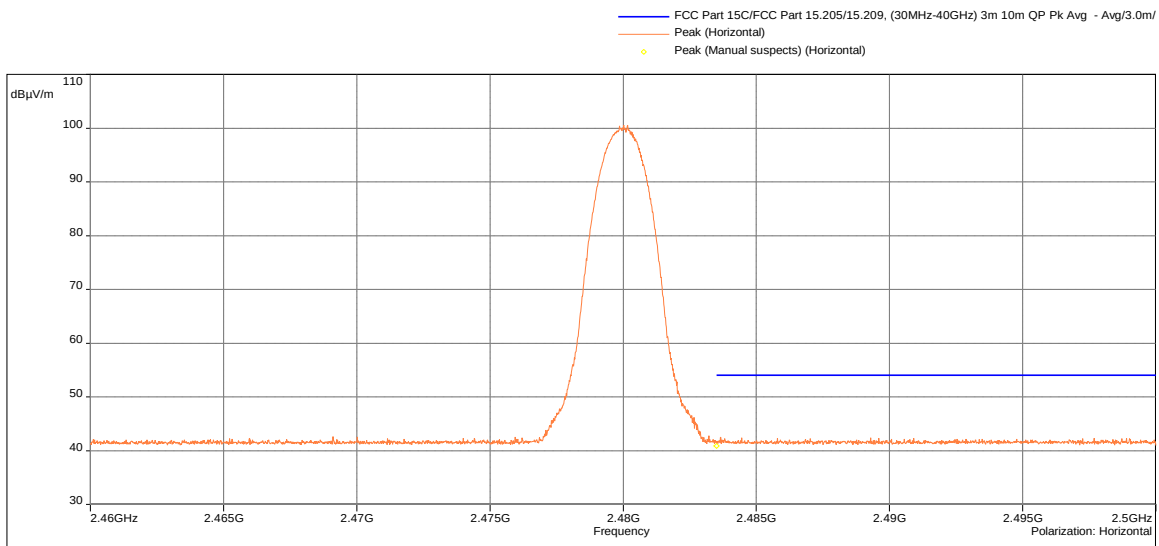
$\pi/4$ -DQPSK, Charging Mode

Radiated Band Edge at the Restricted Band – Tx @ High Channel, Peak



Freq. (MHz)	Peak@3m dB(μV/m)	Peak Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2483.5000	50.03	74	-23.97	118.33	30.09

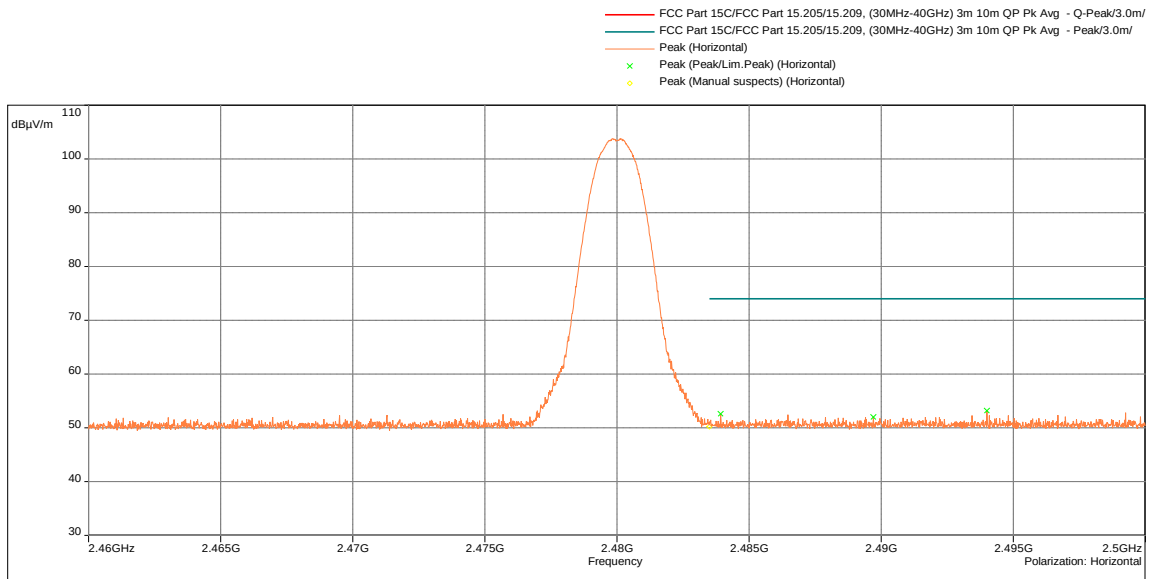
Radiated Band Edge at the Restricted Band – Tx @ High Channel, Average



Freq. (MHz)	Peak@3m dB(μV/m)	Ave Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2483.5000	40.85	54	-13.15	252.58	30.09

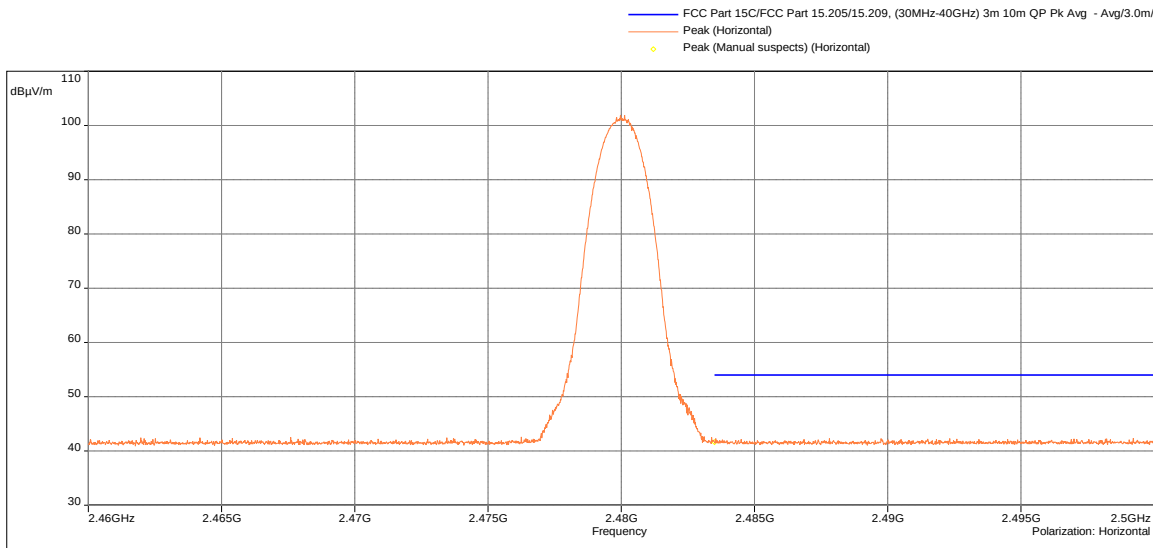
$\pi/4$ -DQPSK, Battery Mode

Radiated Band Edge at the Restricted Band – Tx @ High Channel, Peak



Freq. (MHz)	Peak@3m dB(μV/m)	Peak Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2483.5000	50.2	74	-23.8	315.32	30.09

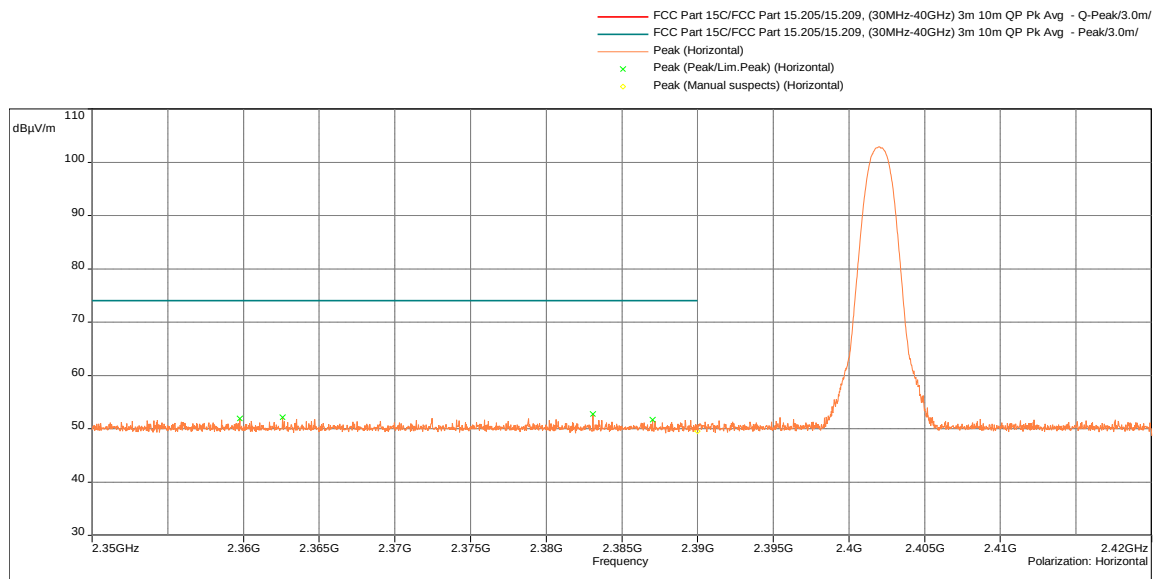
Radiated Band Edge at the Restricted Band – Tx @ High Channel, Average



Freq. (MHz)	Peak@3m dB(μV/m)	Ave Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2483.5000	41.6	54	-12.4	111.14	30.09

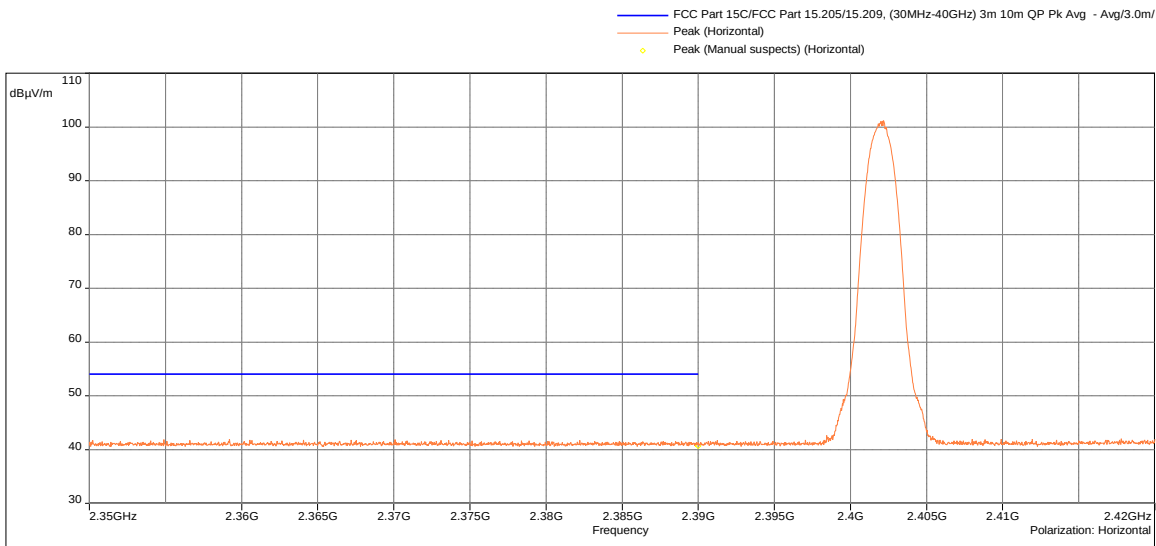
8-DPSK, Charging Mode

Radiated Band Edge at the Restricted Band – Tx @ Low Channel, Peak



Freq. (MHz)	Peak@3m dB(μV/m)	Peak Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2390.000	49.51	74	-24.49	237.52	30.09

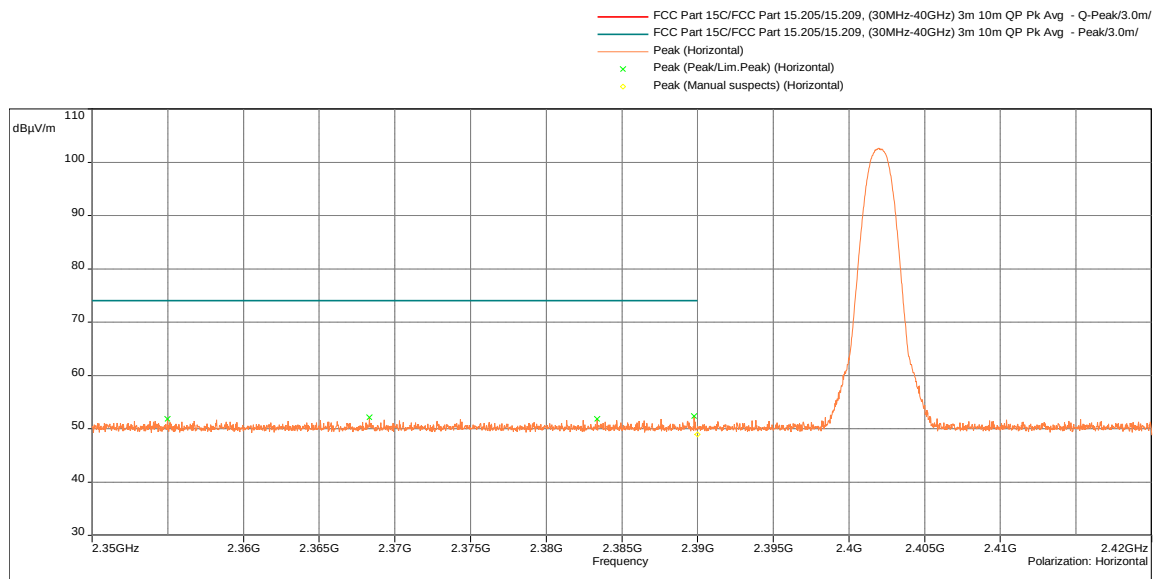
Radiated Band Edge at the Restricted Band – Tx @ Low Channel, Average



Freq. (MHz)	Peak@3m dB(μV/m)	Ave Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2390.000	40.63	54	-13.37	349.31	30.09

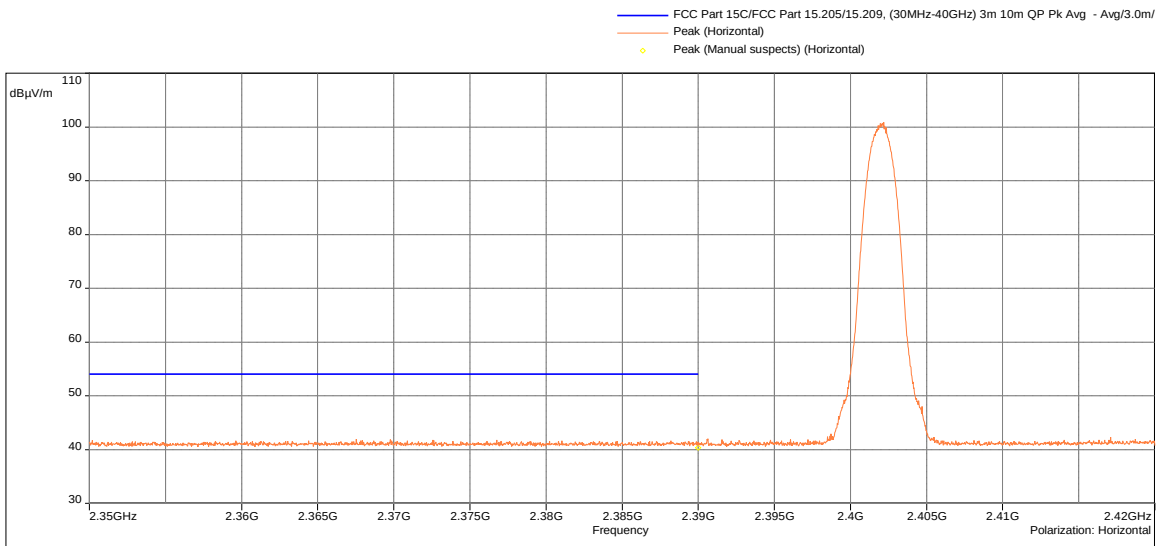
8-DPSK, Battery Mode

Radiated Band Edge at the Restricted Band – Tx @ Low Channel, Peak



Freq. (MHz)	Peak@3m dB(μV/m)	Peak Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2390.000	48.9	74	-25.1	39.73	30.09

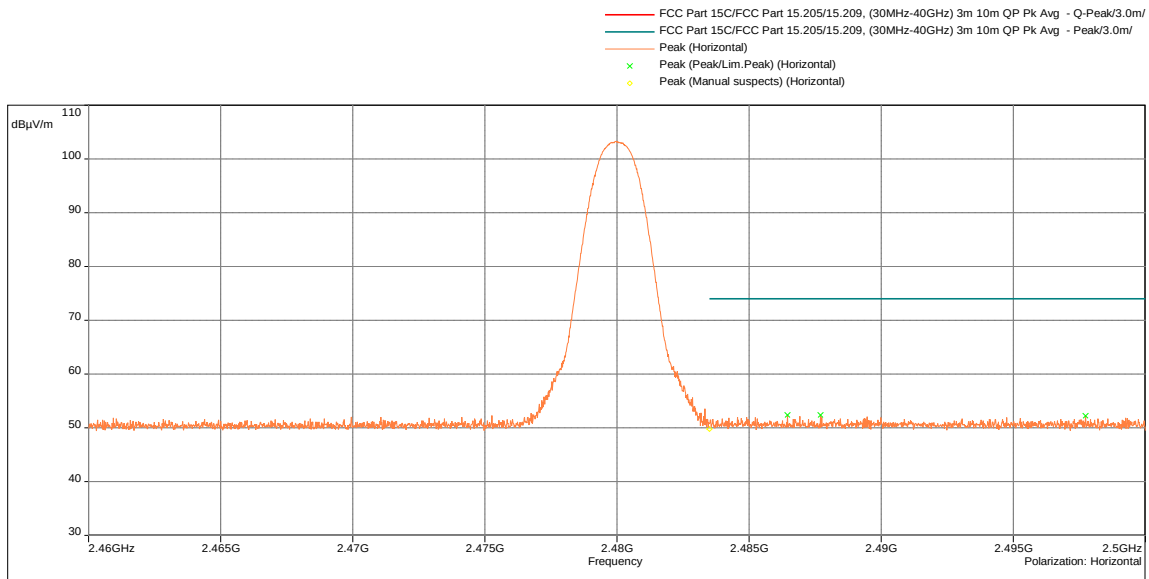
Radiated Band Edge at the Restricted Band – Tx @ Low Channel, Average



Freq. (MHz)	Peak@3m dB(μV/m)	Ave Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2390.000	40.31	54	-13.69	261.77	30.09

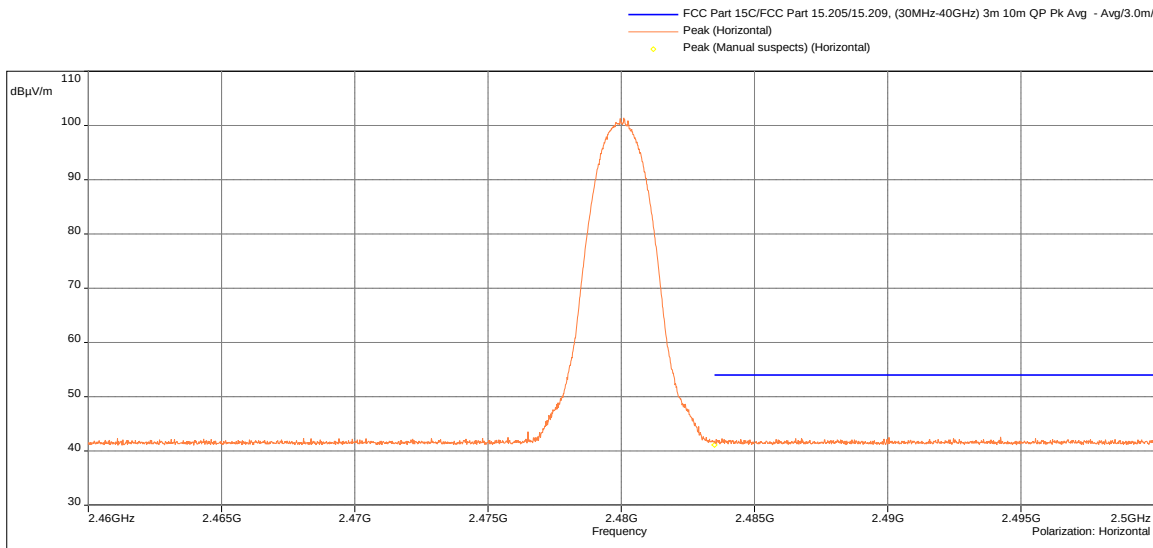
8-DPSK, Charging Mode

Radiated Band Edge at the Restricted Band – Tx @ High Channel, Peak



Freq. (MHz)	Peak@3m dB(μV/m)	Peak Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2483.5000	49.79	74	-24.21	295.23	30.09

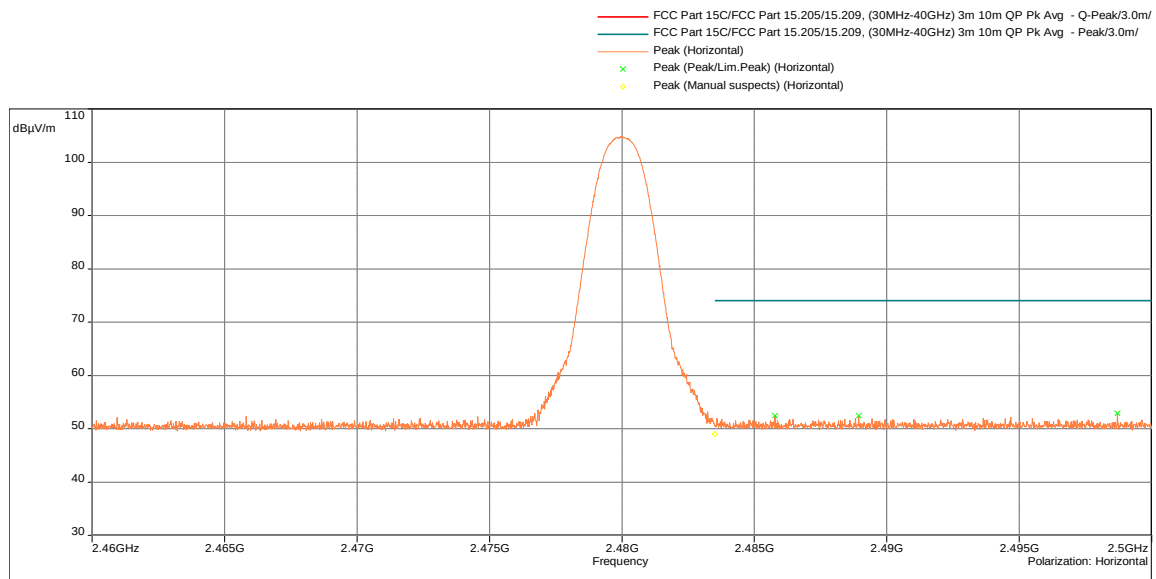
Radiated Band Edge at the Restricted Band – Tx @ High Channel, Average



Freq. (MHz)	Peak@3m dB(μV/m)	Ave Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2483.5000	41.14	54	-12.86	305.54	30.09

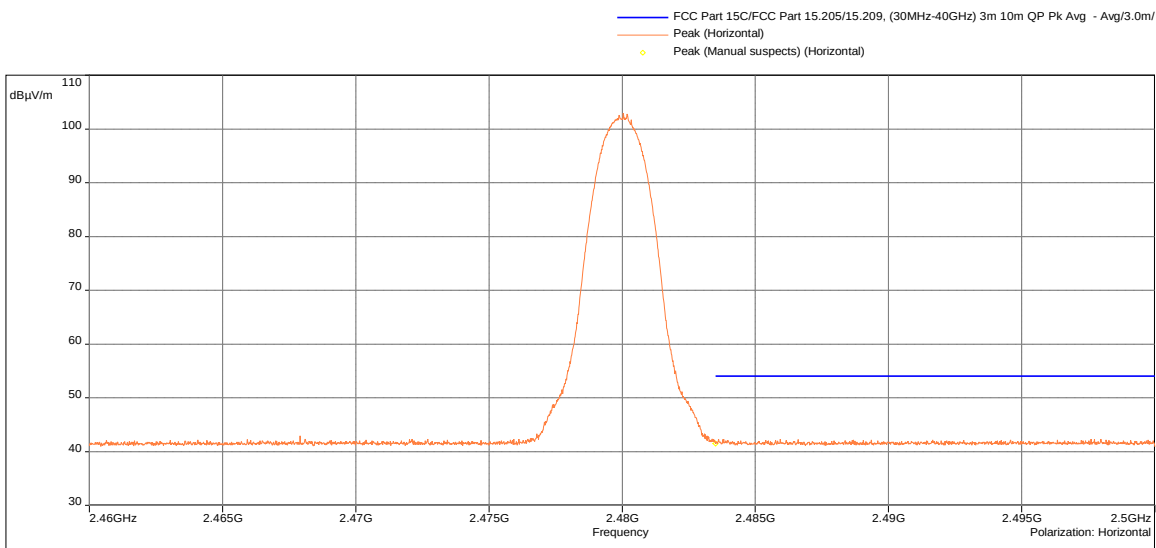
8-DPSK, Battery Mode

Radiated Band Edge at the Restricted Band – Tx @ High Channel, Peak



Freq. (MHz)	Peak@3m dB(μV/m)	Peak Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2483.5000	48.99	74	-25.01	318.7	30.09

Radiated Band Edge at the Restricted Band – Tx @ High Channel, Average



Freq. (MHz)	Peak@3m dB(μV/m)	Ave Limit dB(μV/m)	Margin (dB)	Azimuth (Deg)	Correction (dB)
2483.5000	41.51	54	-12.49	214.61	30.09

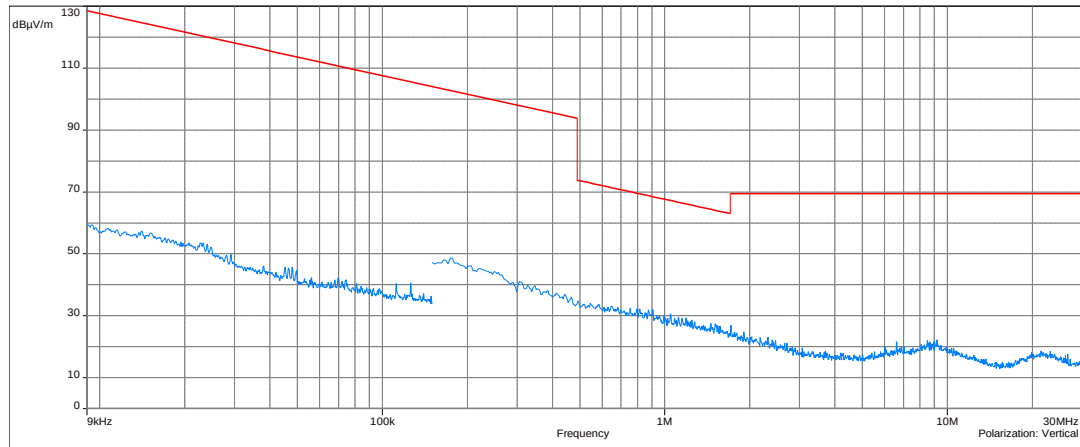
Results **Complies**

Out-of-Band Radiated Spurious Emissions

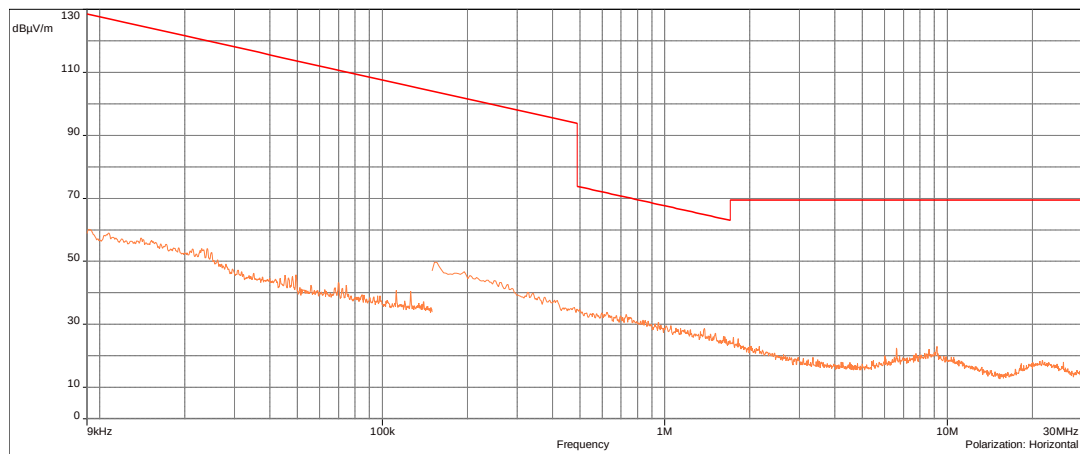
**Test Results: 15.209 Radiated Spurious Emissions, GFSK Tx at 2402 MHz
Charging Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

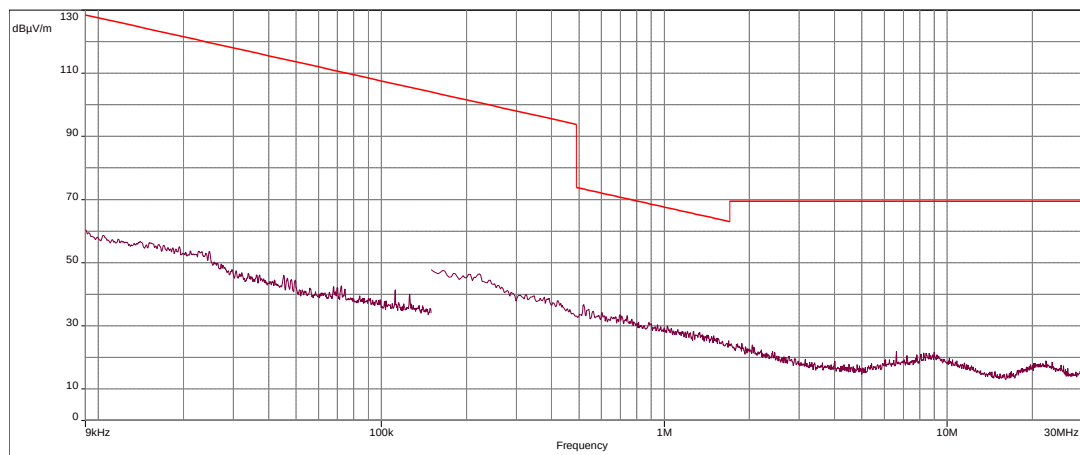
Antenna
Position -
Coaxial



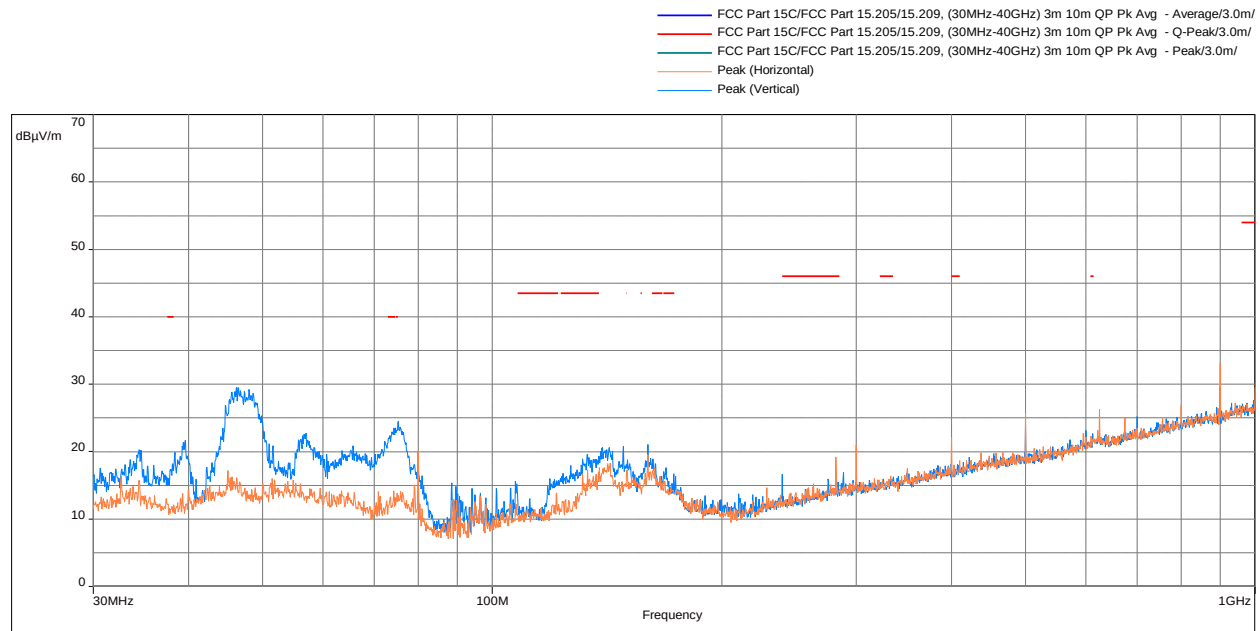
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

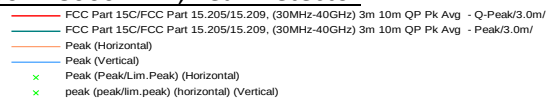


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

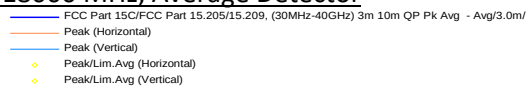


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
612.259	22.69	46.00	-23.31	0.02	Vertical	-6.22
608.734	22.27	46.00	-23.73	288.87	Horizontal	-6.38
399.990	22.18	46.00	-23.82	312.51	Horizontal	-10.44
609.575	22.15	46.00	-23.85	67.53	Horizontal	-6.35
133.240	19.58	43.50	-23.92	186.78	Vertical	-15.04
1000.000	29.61	54.00	-24.39	177.24	Horizontal	0.54

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



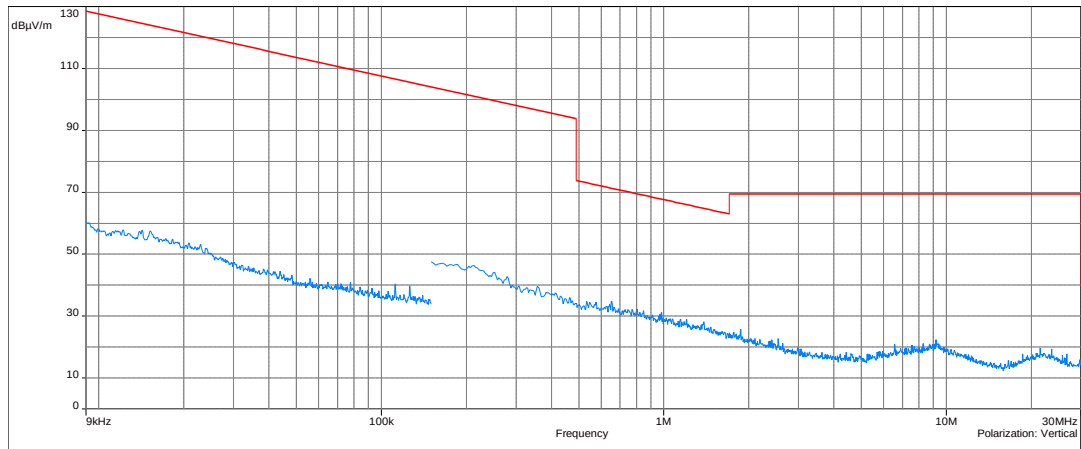
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17802.800	Peak	54.08	74.00	-19.92	341.76	Horizontal	5.49
17952.400	Peak	53.84	74.00	-20.16	320.68	Vertical	5.60
15762.233	Peak	52.66	74.00	-21.34	322.66	Horizontal	5.52
17960.333	Average	43.96	54.00	-10.04	249.40	Horizontal	5.60
17963.167	Average	43.82	54.00	-10.18	133.87	Vertical	5.61
11064.000	Average	39.23	54.00	-14.77	0.00	Vertical	4.65

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

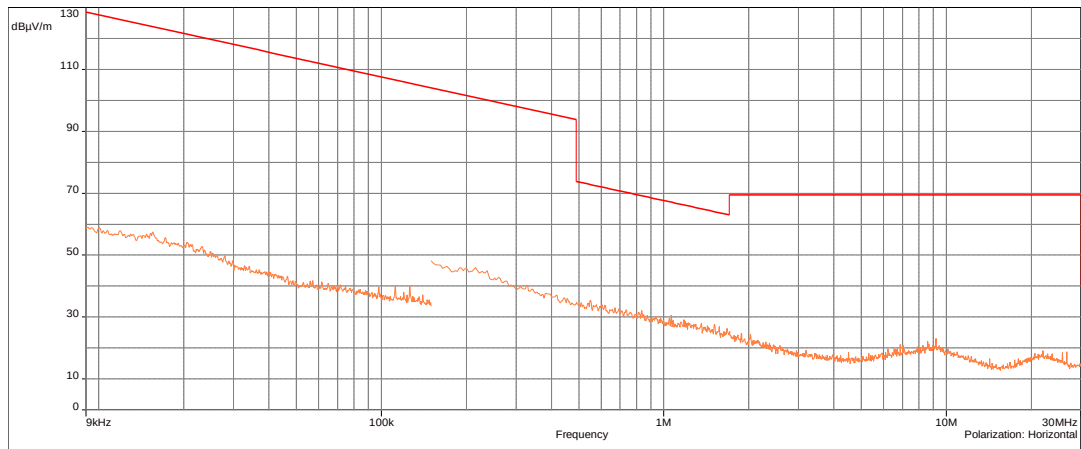
**Test Results: 15.209 Radiated Spurious Emissions, GFSK Tx at 2402 MHz
Battery Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

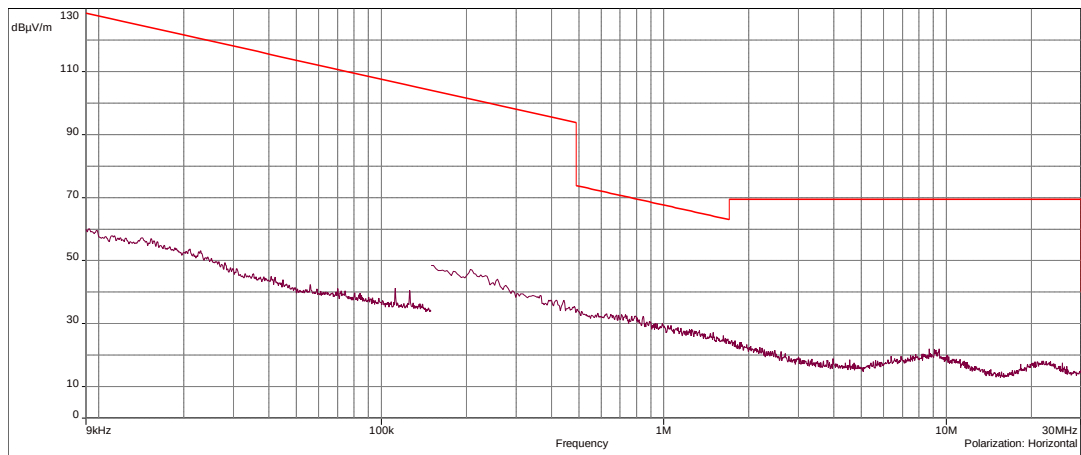
Antenna
Position -
Coaxial



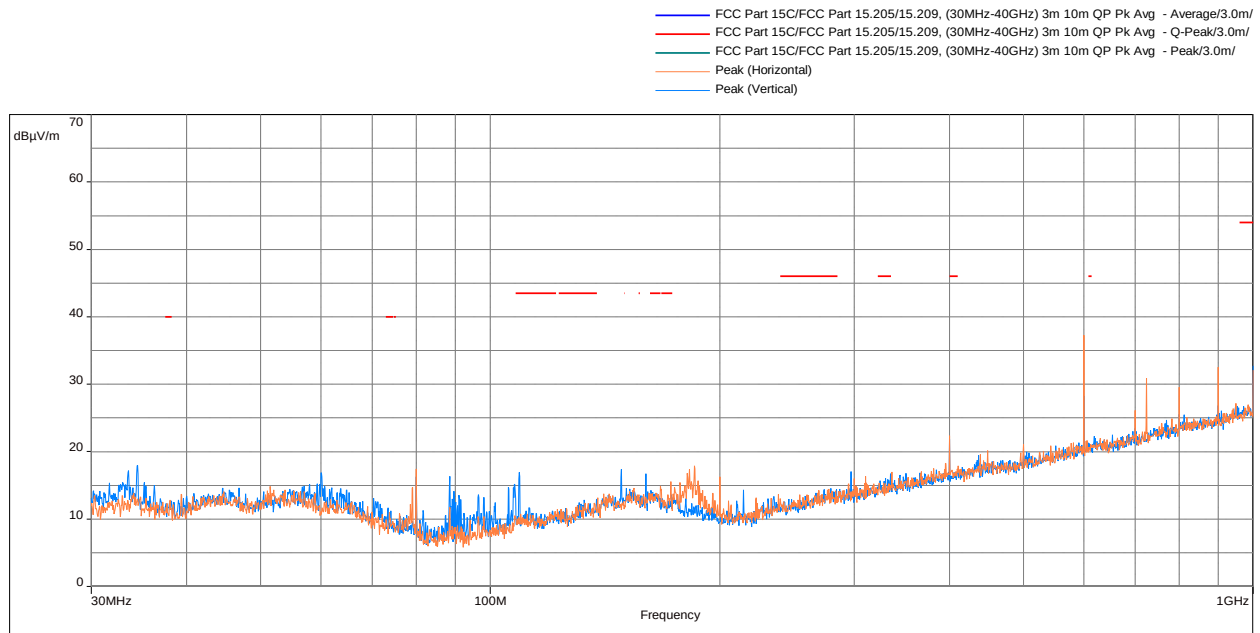
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

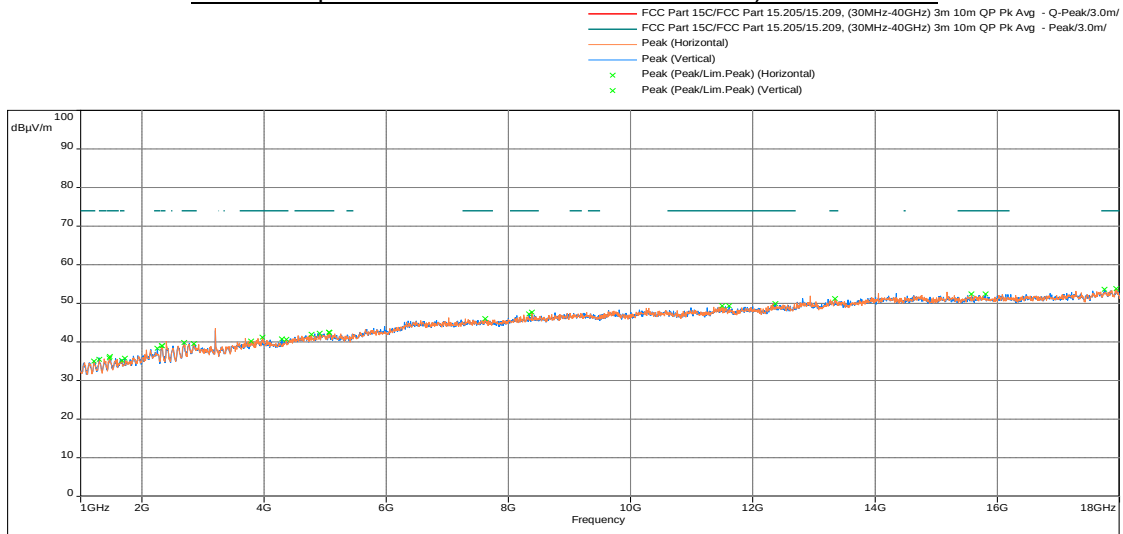


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

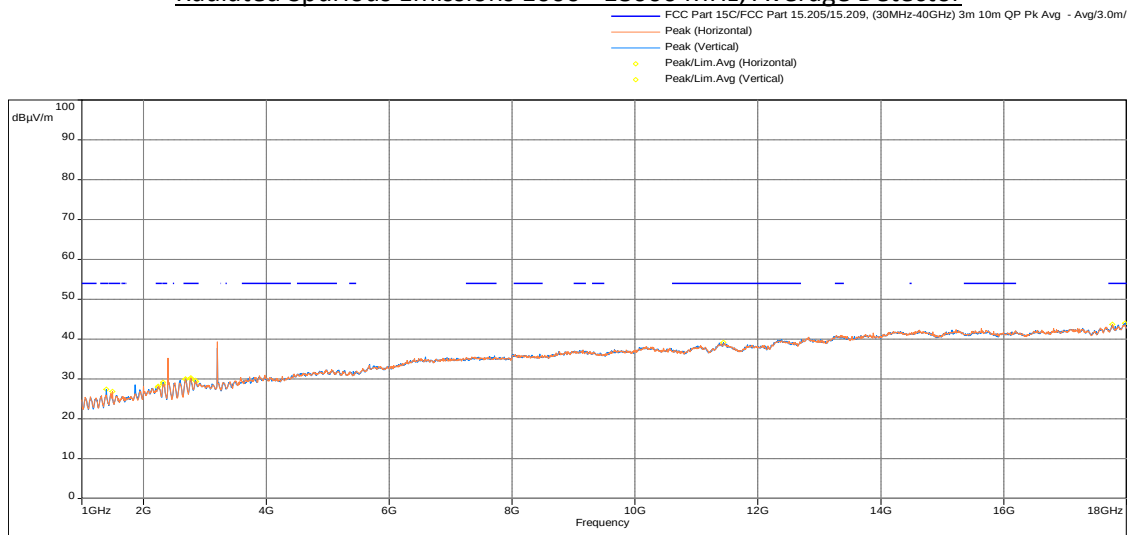


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
1000.000	32.74	54.00	-21.26	226.32	Vertical	0.54
1000.000	32.07	54.00	-21.93	131.16	Horizontal	0.54
399.990	22.37	46.00	-23.63	186.78	Horizontal	-10.44
399.990	21.85	46.00	-24.15	6.56	Vertical	-10.44
609.737	21.21	46.00	-24.79	173.22	Vertical	-6.35
612.841	21.06	46.00	-24.94	354.60	Horizontal	-6.16

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



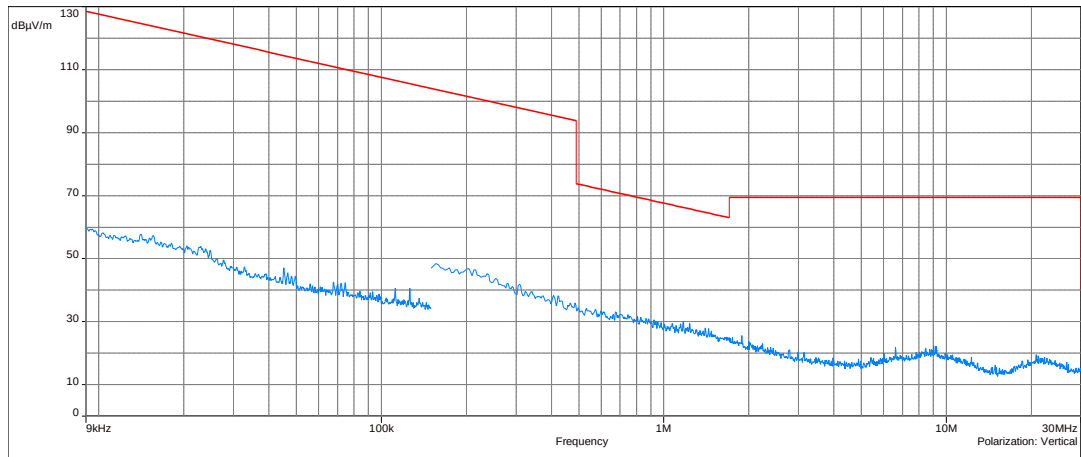
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17949.000	Peak	53.84	74.00	-20.16	220.19	Horizontal	5.59
17756.333	Peak	53.59	74.00	-20.41	86.50	Vertical	5.45
15575.800	Peak	52.41	74.00	-21.59	271.92	Horizontal	5.28
17971.100	Average	43.95	54.00	-10.05	226.13	Vertical	5.61
17766.533	Average	43.71	54.00	-10.29	0.00	Horizontal	5.45
11442.533	Average	39.21	54.00	-14.79	0.00	Vertical	4.73

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

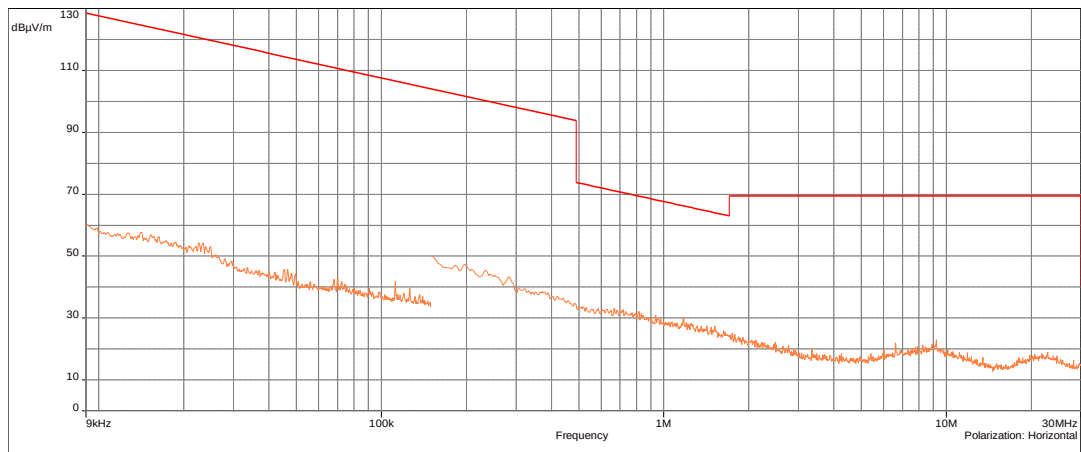
**Test Results: 15.209 Radiated Spurious Emissions, GFSK Tx at 2440 MHz
Charging Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

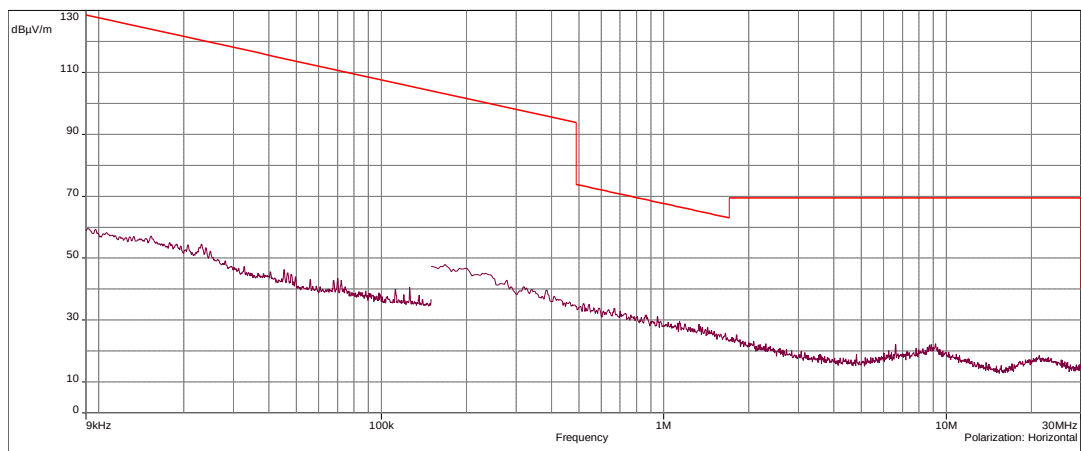
Antenna
Position -
Coaxial



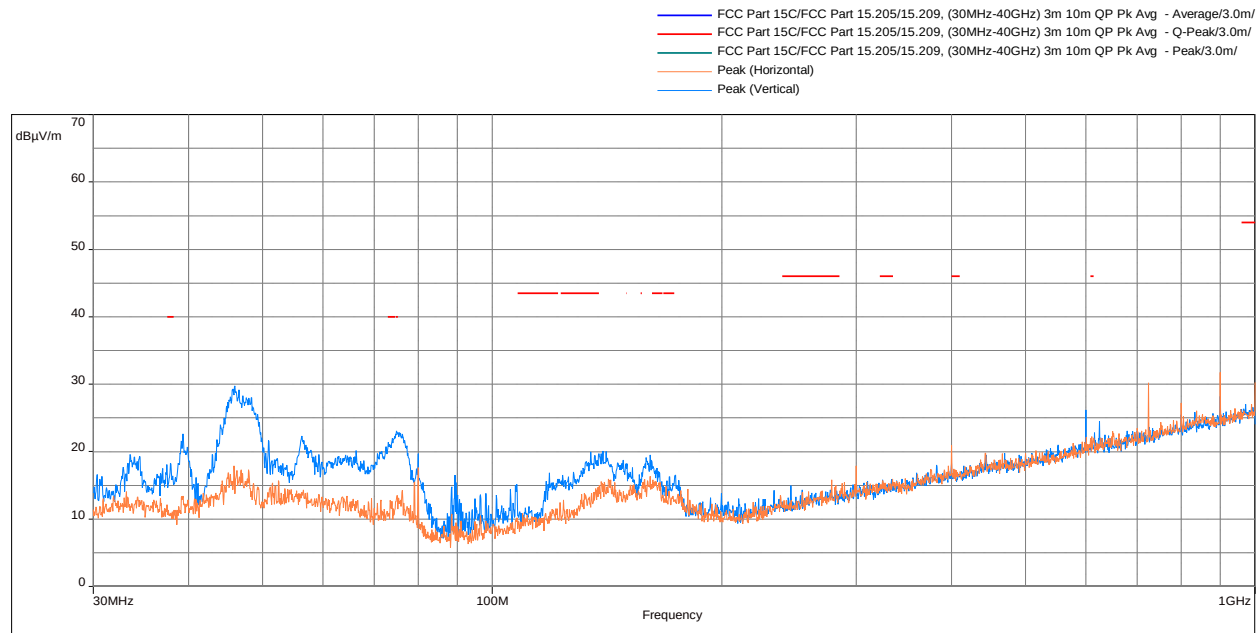
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

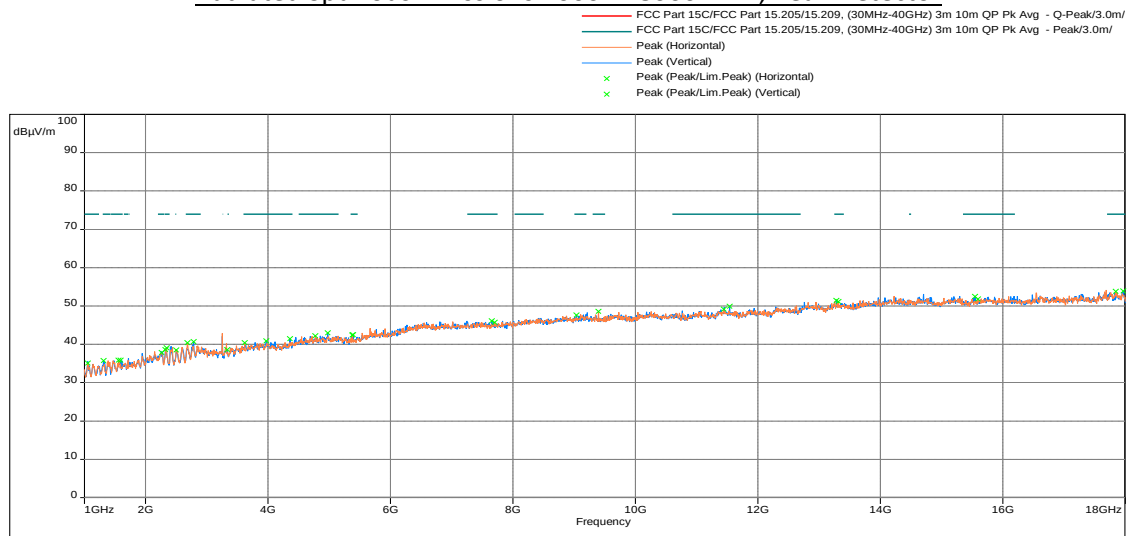


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

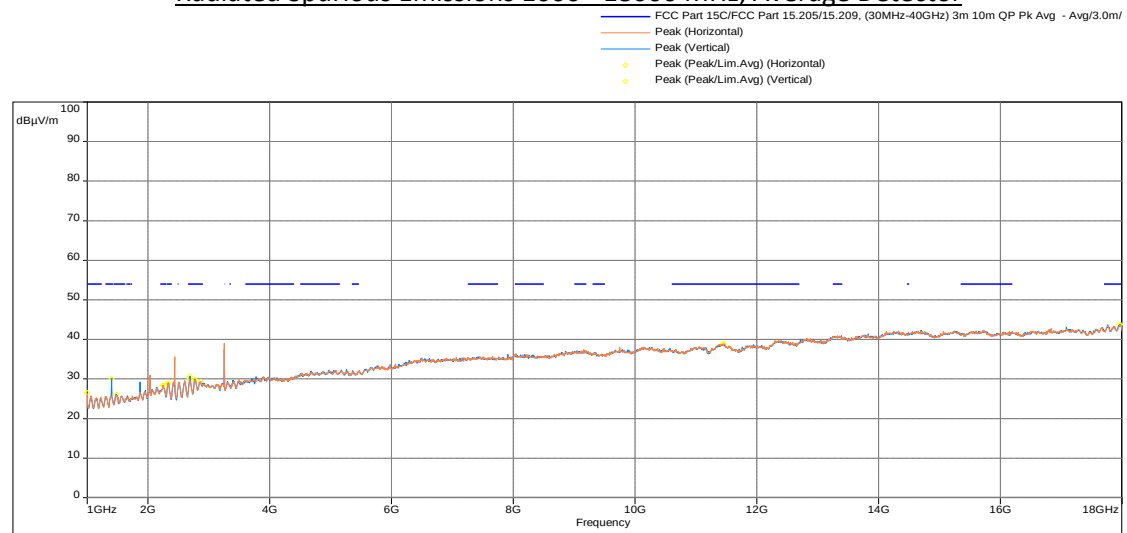


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
74.943	23.06	40.00	-16.94	259.89	Vertical	-17.13
37.889	18.28	40.00	-21.72	359.99	Vertical	-14.10
134.566	19.94	43.50	-23.56	188.25	Vertical	-14.90
1000.000	30.28	54.00	-23.72	227.37	Horizontal	0.54
610.545	22.25	46.00	-23.75	336.81	Horizontal	-6.30
608.670	21.96	46.00	-24.04	81.57	Horizontal	-6.39

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



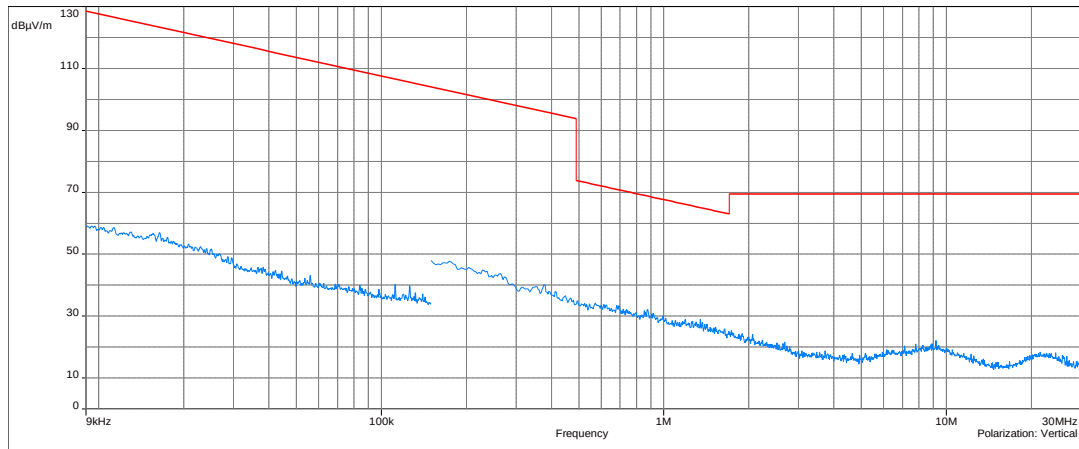
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17967.133	Peak	53.92	74.00	-20.08	327.45	Vertical	5.61
17847.000	Peak	53.80	74.00	-20.20	65.00	Horizontal	5.52
15542.367	Peak	52.47	74.00	-21.53	48.86	Vertical	5.30
17964.867	Average	43.87	54.00	-10.13	342.92	Vertical	5.61
17962.033	Average	43.74	54.00	-10.26	318.55	Horizontal	5.60
11459.533	Average	39.02	54.00	-14.98	41.93	Horizontal	4.71

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

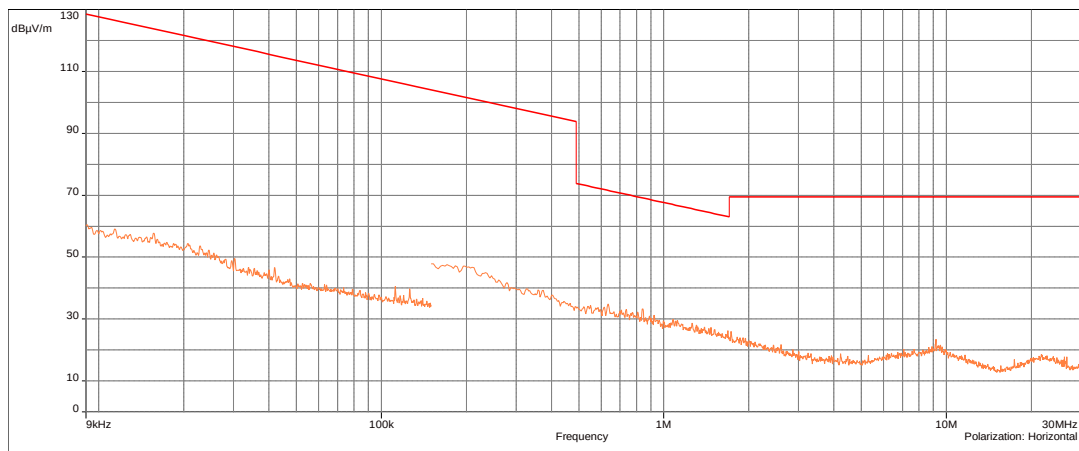
**Test Results: 15.209 Radiated Spurious Emissions, GFSK Tx at 2440 MHz
Battery Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

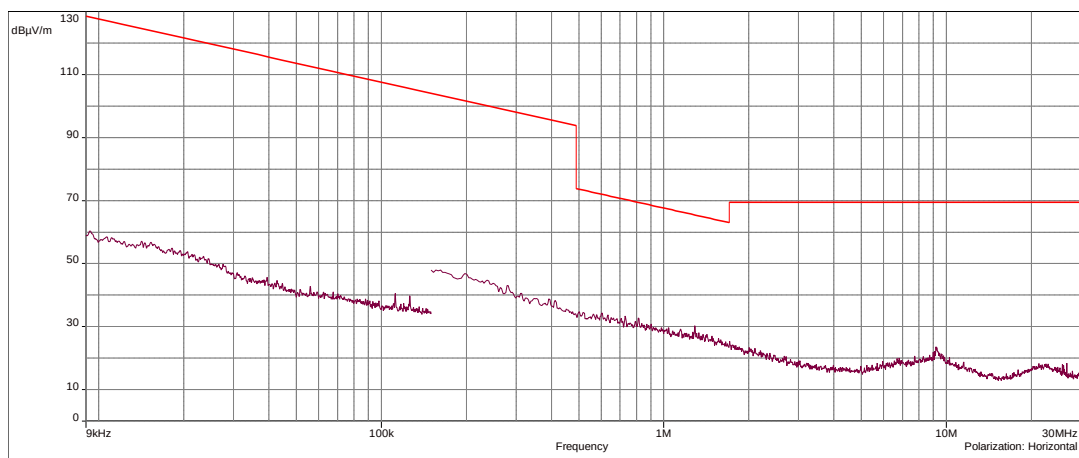
Antenna
Position -
Coaxial



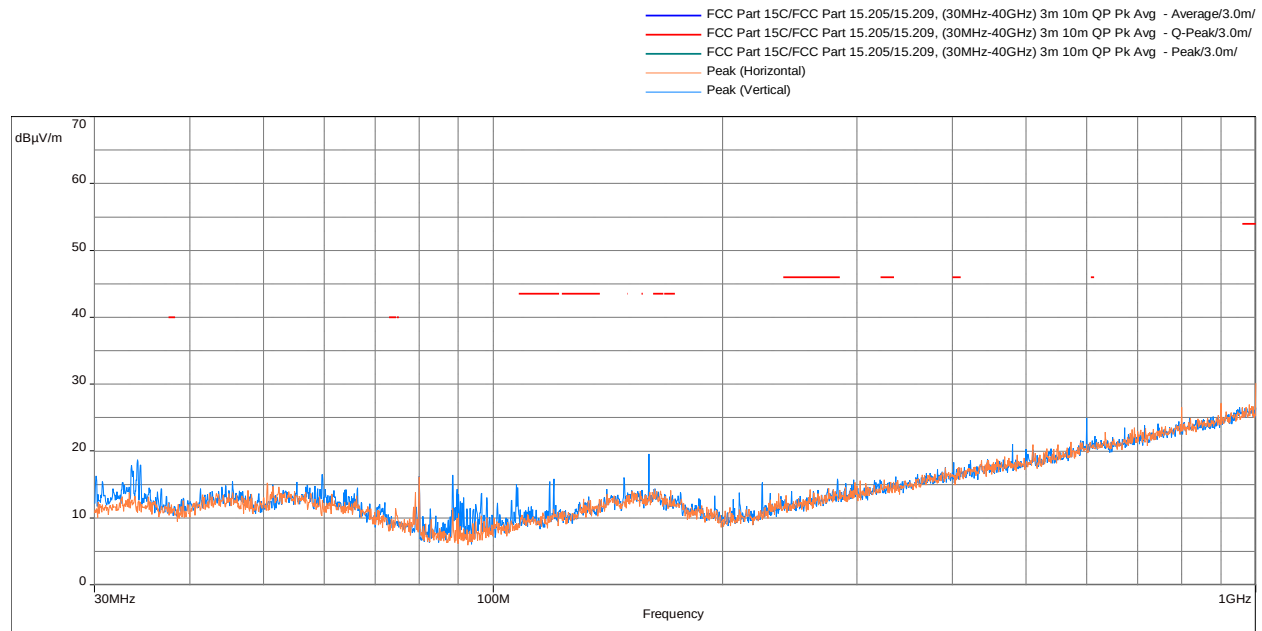
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

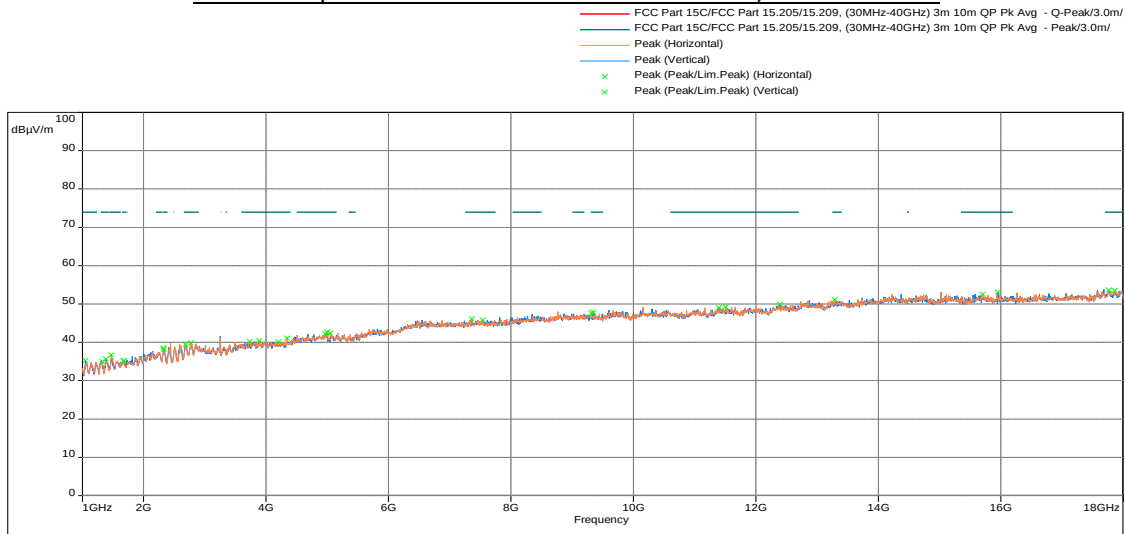


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

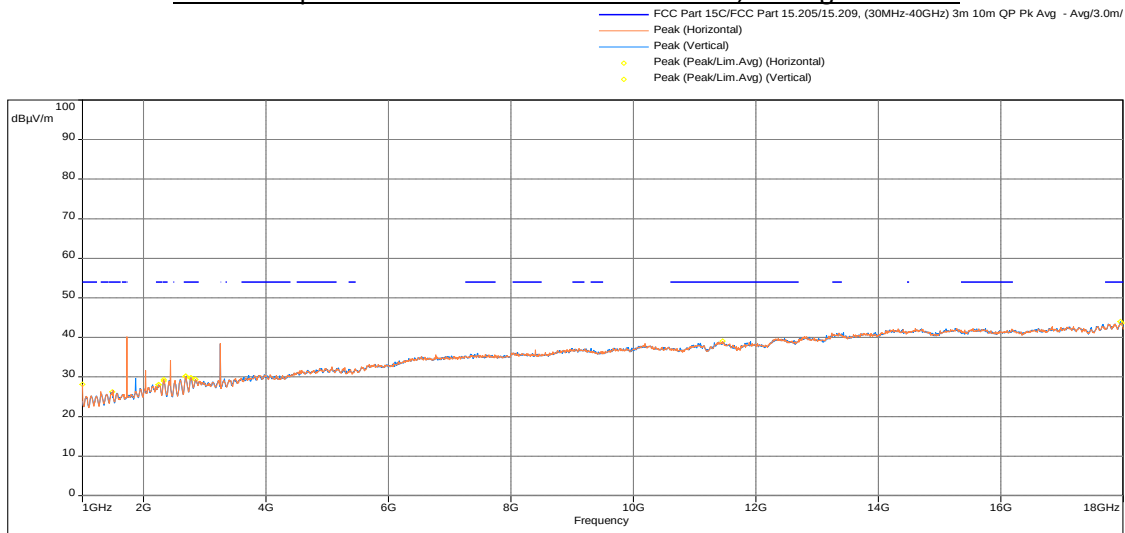


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
1000.000	30.16	54.00	-23.84	191.28	Horizontal	0.54
610.513	21.59	46.00	-24.41	258.90	Vertical	-6.30
612.776	20.99	46.00	-25.01	359.97	Horizontal	-6.17
610.060	20.91	46.00	-25.09	358.77	Vertical	-6.35
609.446	20.82	46.00	-25.18	347.06	Vertical	-6.35
980.600	26.95	54.00	-27.05	255.90	Horizontal	0.10

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



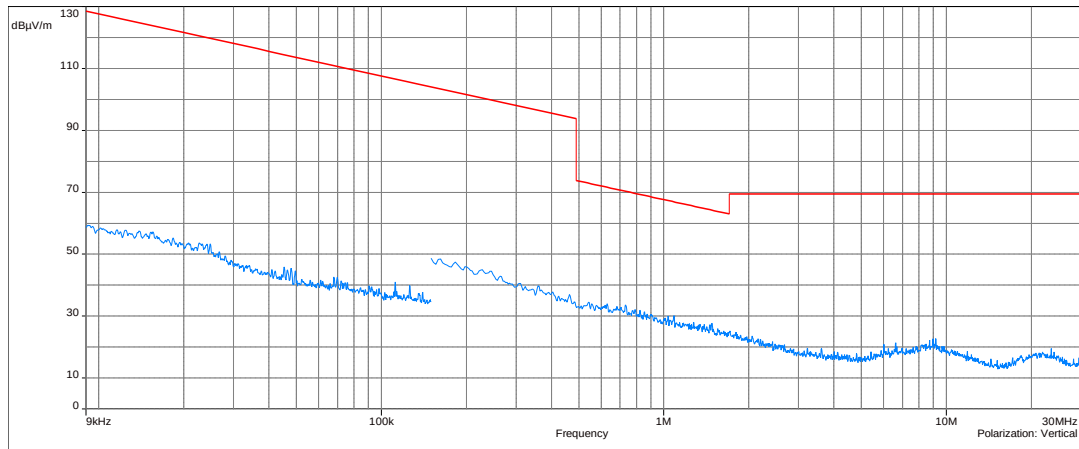
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17764.267	Peak	53.61	74.00	-20.39	98.61	Horizontal	5.45
17857.200	Peak	53.55	74.00	-20.45	102.41	Vertical	5.53
15954.333	Peak	53.01	74.00	-20.99	237.90	Vertical	5.70
17952.400	Average	44.00	54.00	-10.00	0.00	Vertical	5.60
17975.633	Average	43.65	54.00	-10.35	202.15	Horizontal	5.62
11453.867	Average	39.10	54.00	-14.90	248.52	Horizontal	4.72

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

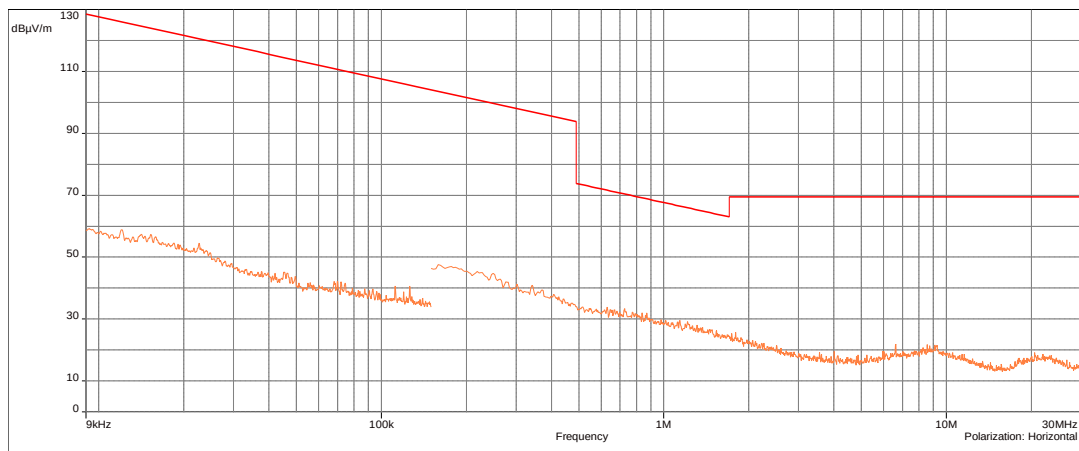
**Test Results: 15.209 Radiated Spurious Emissions, GFSK Tx at 2480 MHz
Charging Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

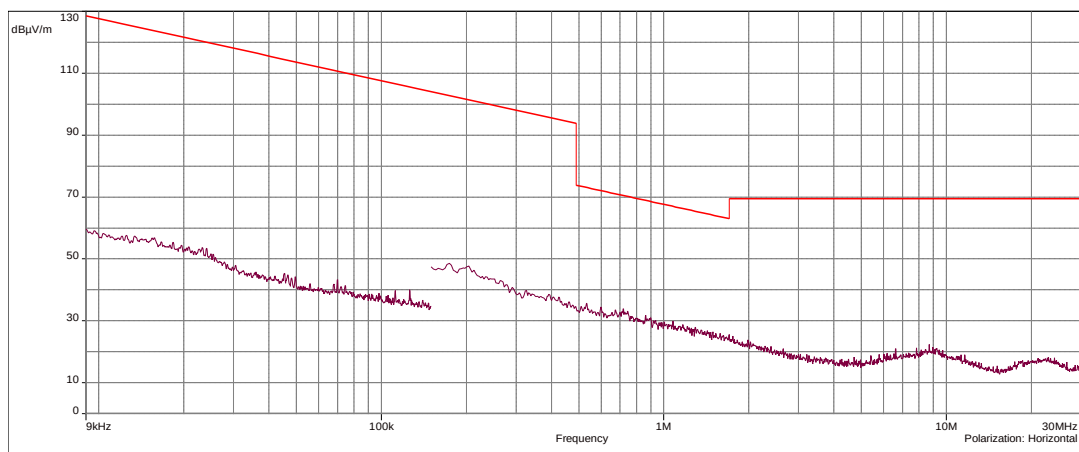
Antenna
Position -
Coaxial



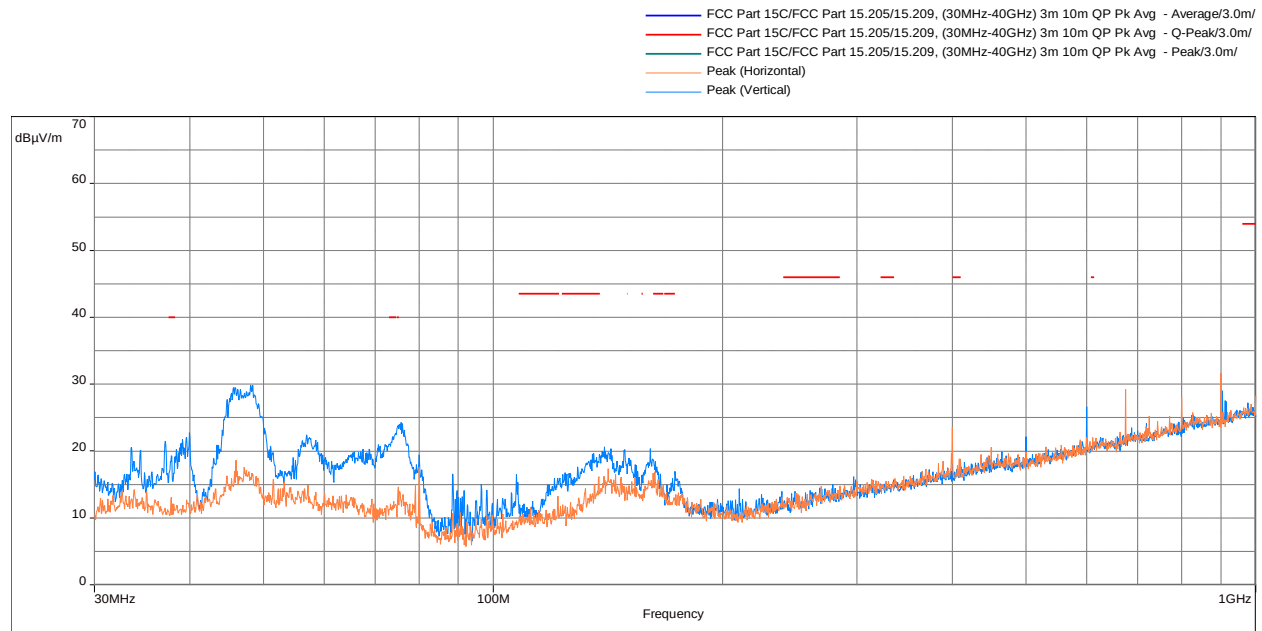
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

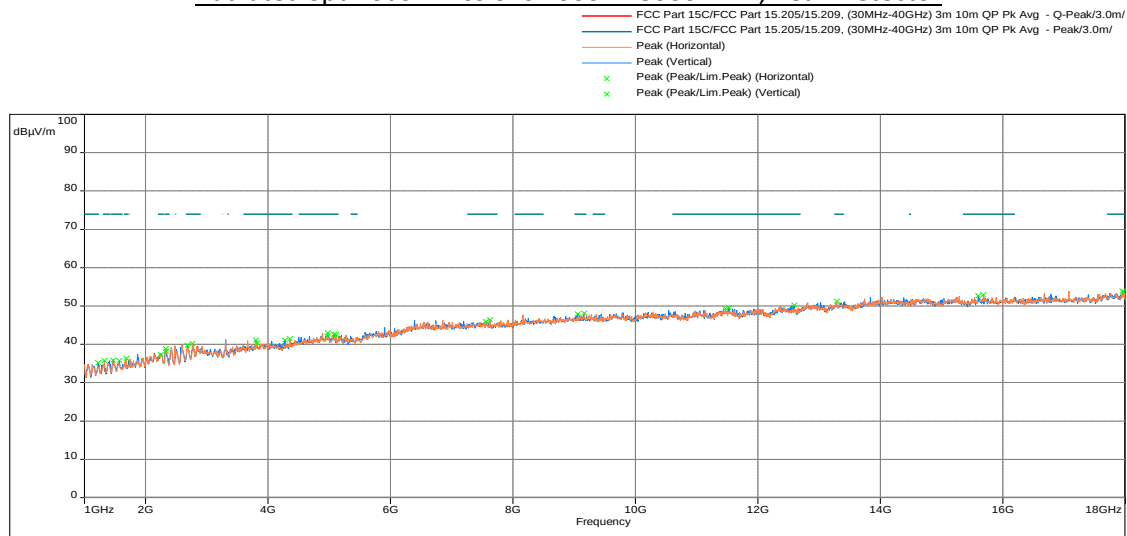


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

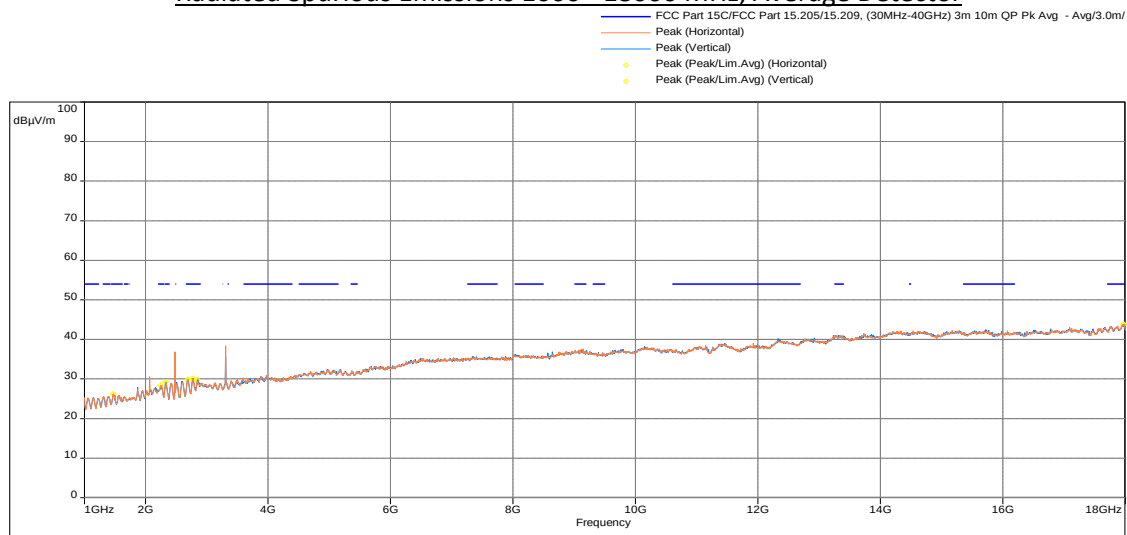


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
37.857	19.33	40.00	-20.67	197.79	Vertical	-14.10
399.990	23.57	46.00	-22.43	146.19	Horizontal	-10.44
135.439	19.65	43.50	-23.85	190.77	Vertical	-14.77
134.954	19.58	43.50	-23.92	175.74	Vertical	-14.86
611.095	22.01	46.00	-23.99	3.45	Horizontal	-6.25
75.073	14.67	40.00	-25.33	206.31	Horizontal	-17.16

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



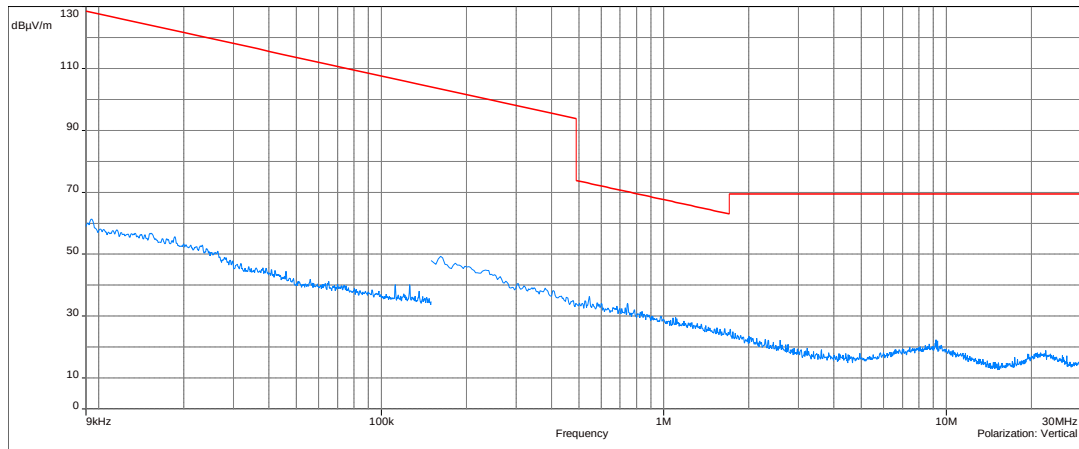
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17950.133	Peak	53.91	74.00	-20.09	79.32	Vertical	5.59
17966.000	Peak	53.59	74.00	-20.41	341.76	Horizontal	5.61
15683.467	Peak	52.96	74.00	-21.04	250.84	Horizontal	5.45
17976.767	Average	43.85	54.00	-10.15	295.37	Horizontal	5.62
17963.167	Average	43.84	54.00	-10.16	87.90	Vertical	5.61
2769.700	Average	30.10	54.00	-23.90	226.13	Horizontal	-2.91

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

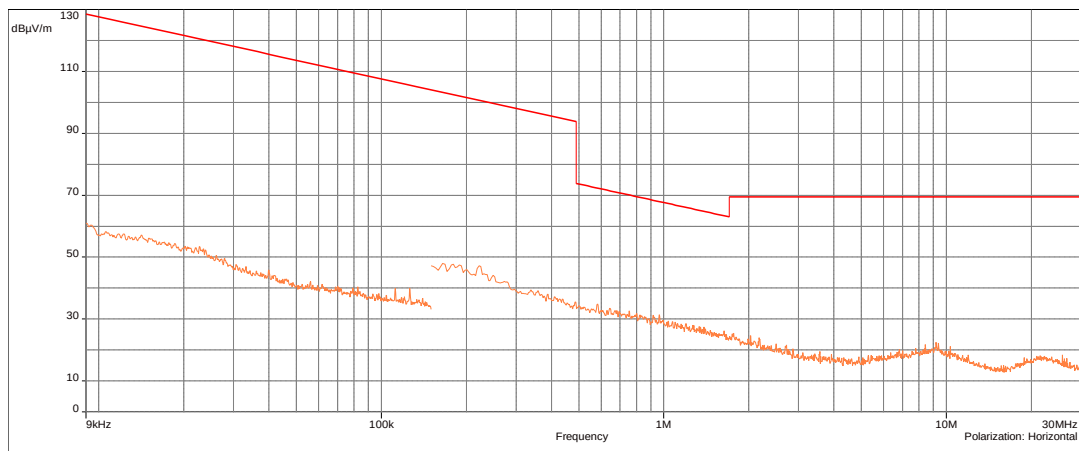
**Test Results: 15.209 Radiated Spurious Emissions, GFSK Tx at 2480 MHz
Battery Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

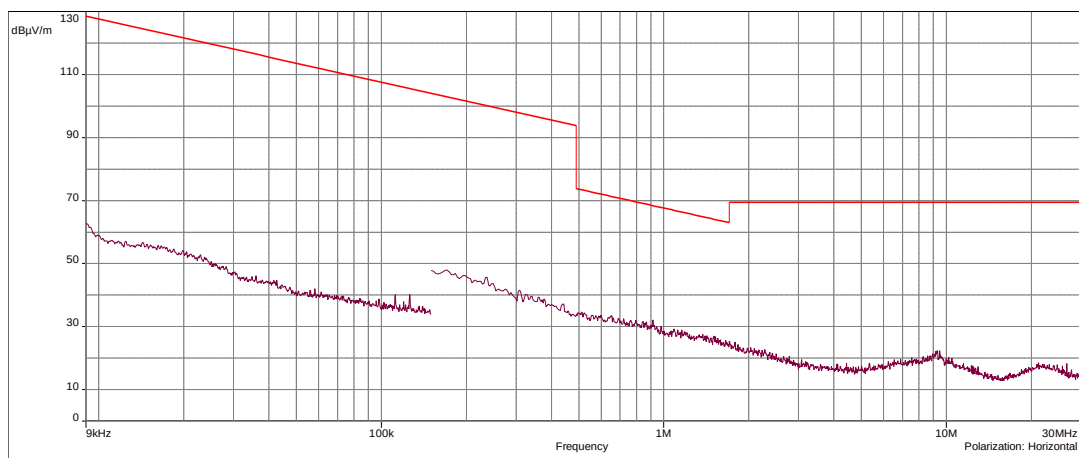
Antenna
Position -
Coaxial



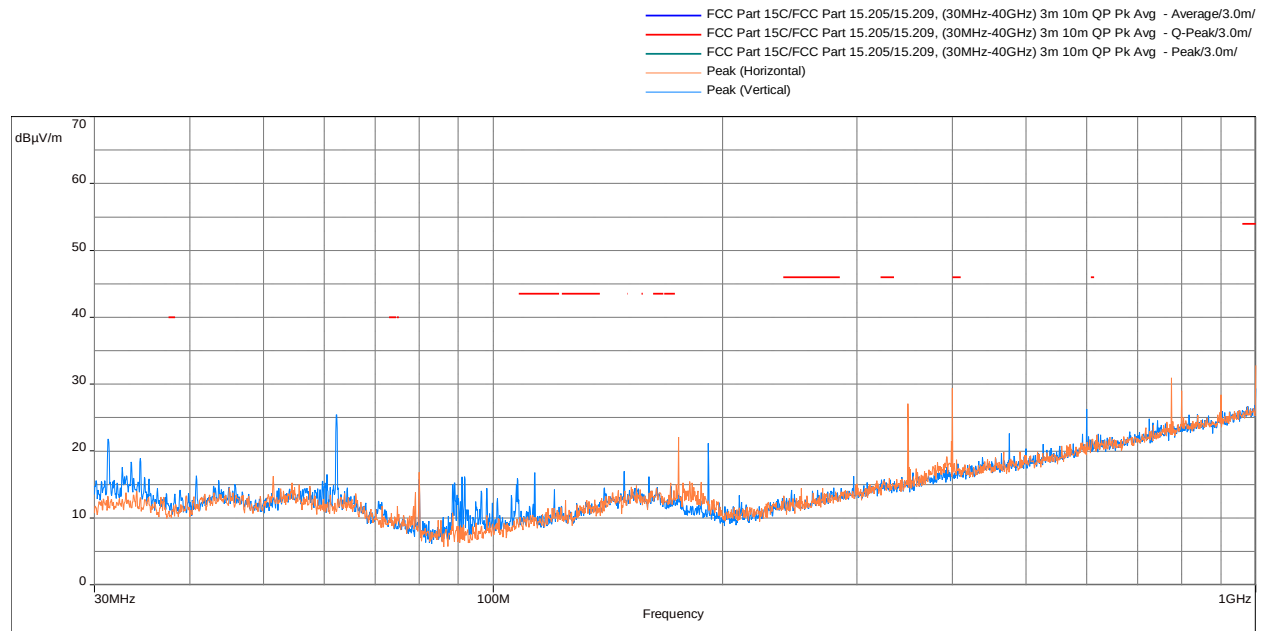
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

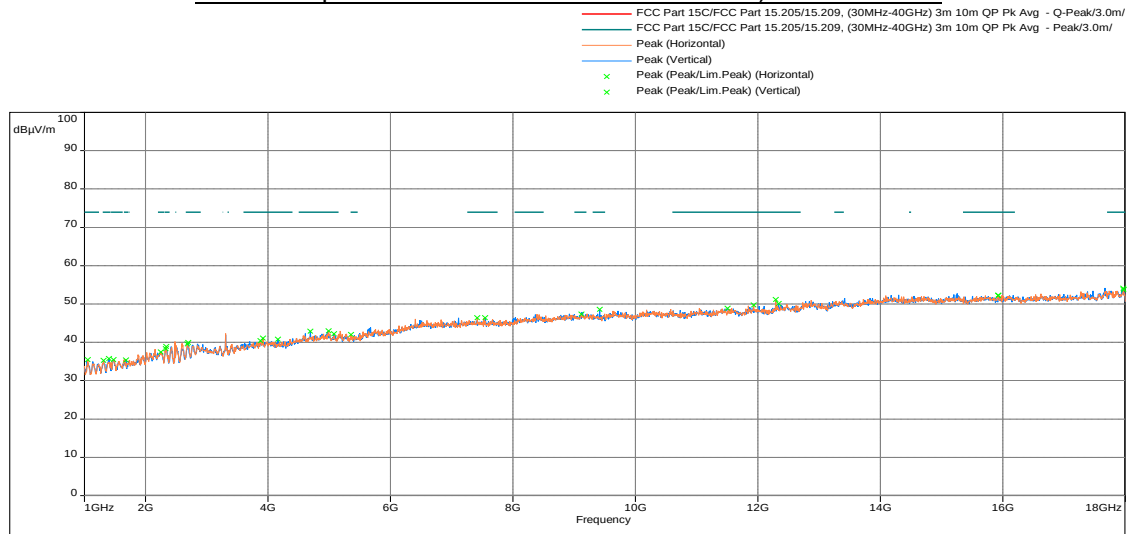


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

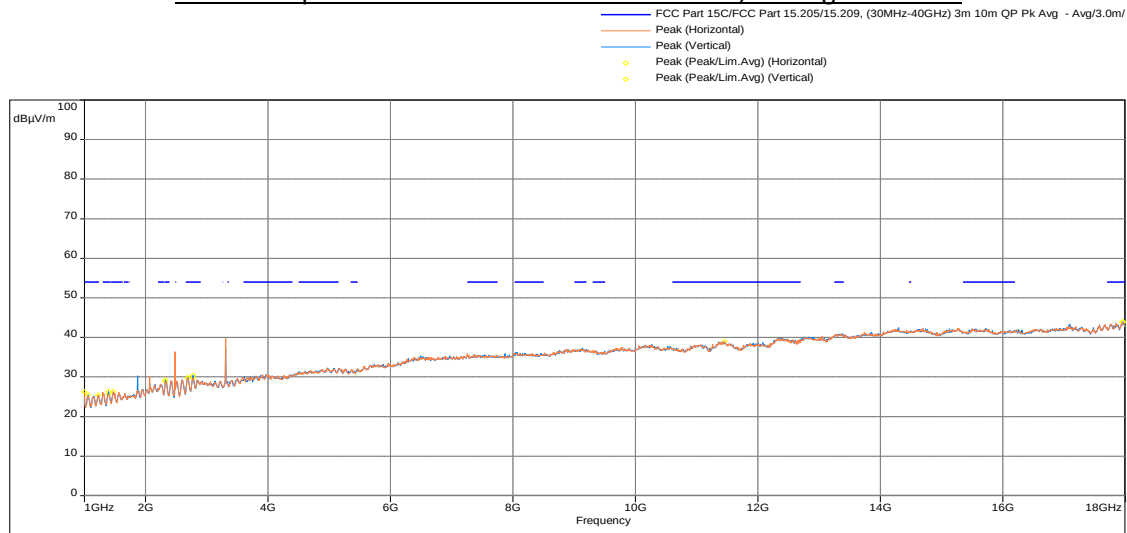


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	29.43	46.00	-16.57	70.05	Horizontal	-10.44
1000.000	32.79	54.00	-21.21	70.05	Horizontal	0.54
610.771	21.76	46.00	-24.24	119.64	Horizontal	-6.27
609.187	21.70	46.00	-24.30	157.71	Horizontal	-6.35
610.707	21.52	46.00	-24.48	122.64	Vertical	-6.28
1000.000	29.37	54.00	-24.63	171.24	Vertical	0.54

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



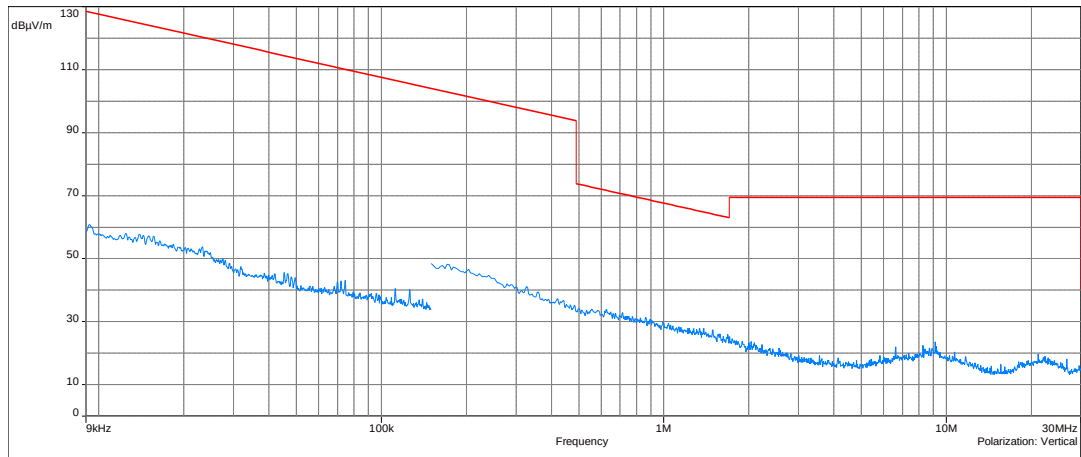
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17964.300	Peak	54.10	74.00	-19.90	0.00	Vertical	5.61
17975.067	Peak	53.70	74.00	-20.30	117.53	Horizontal	5.62
15923.733	Peak	52.28	74.00	-21.72	115.53	Horizontal	5.70
17964.867	Average	43.97	54.00	-10.03	0.00	Vertical	5.61
17954.667	Average	43.94	54.00	-10.06	179.76	Horizontal	5.60
11455.000	Average	38.95	54.00	-15.05	133.79	Horizontal	4.72

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

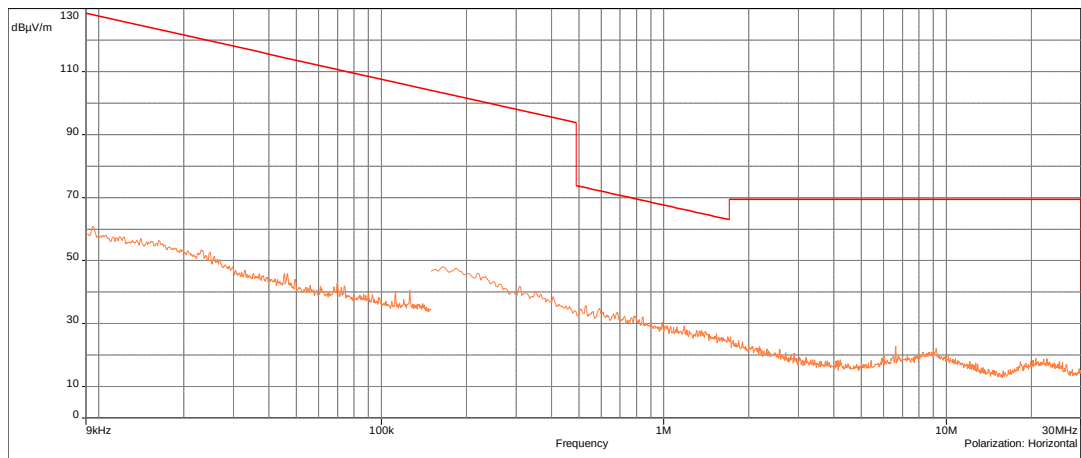
**Test Results: 15.209 Radiated Spurious Emissions, $\pi/4$ -DQPSK Tx at 2402 MHz
Charging Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

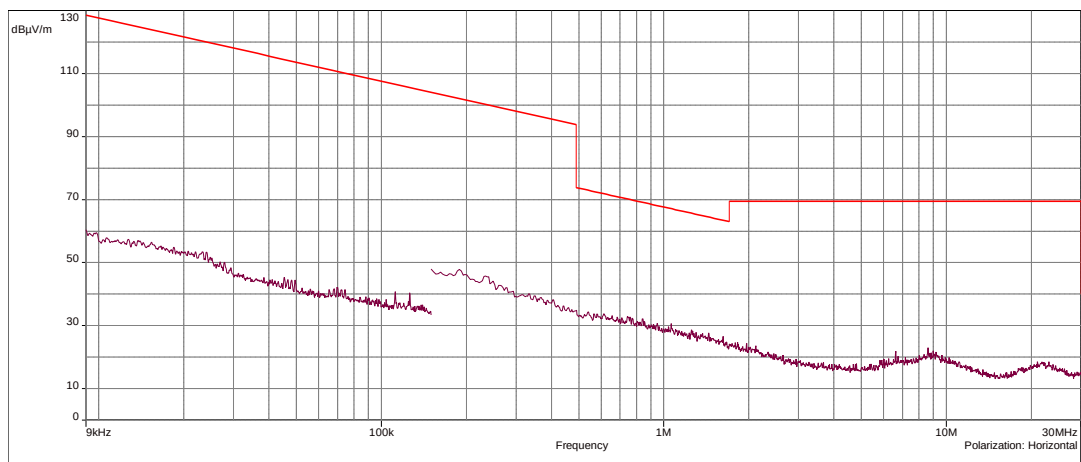
Antenna
Position -
Coaxial



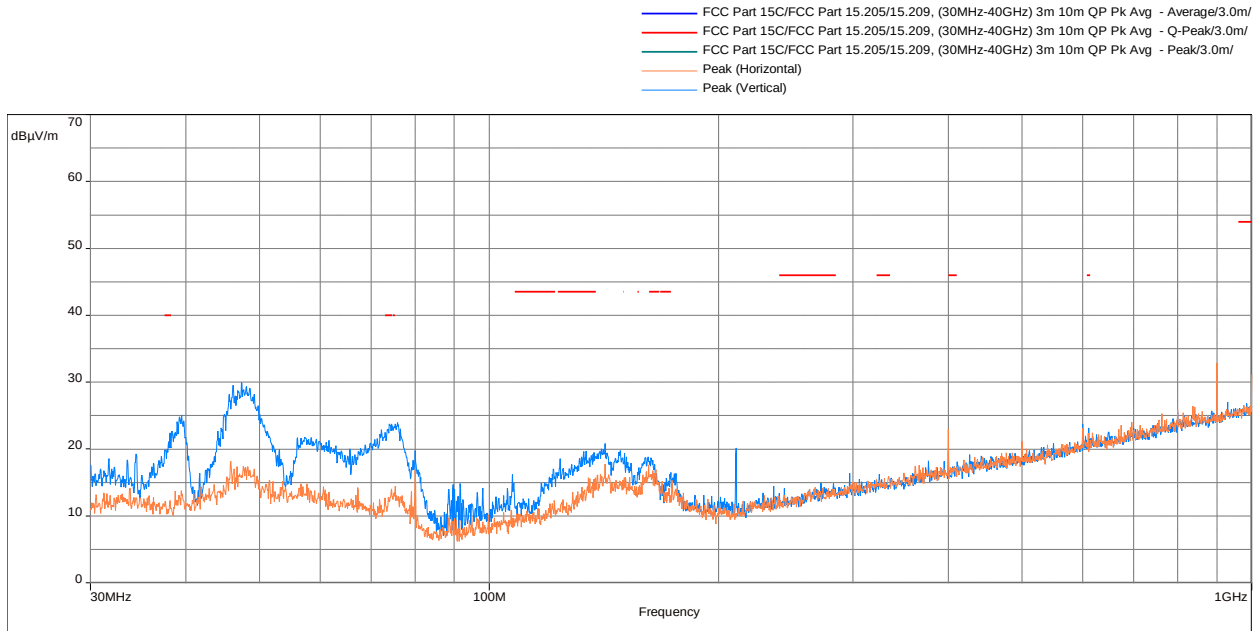
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

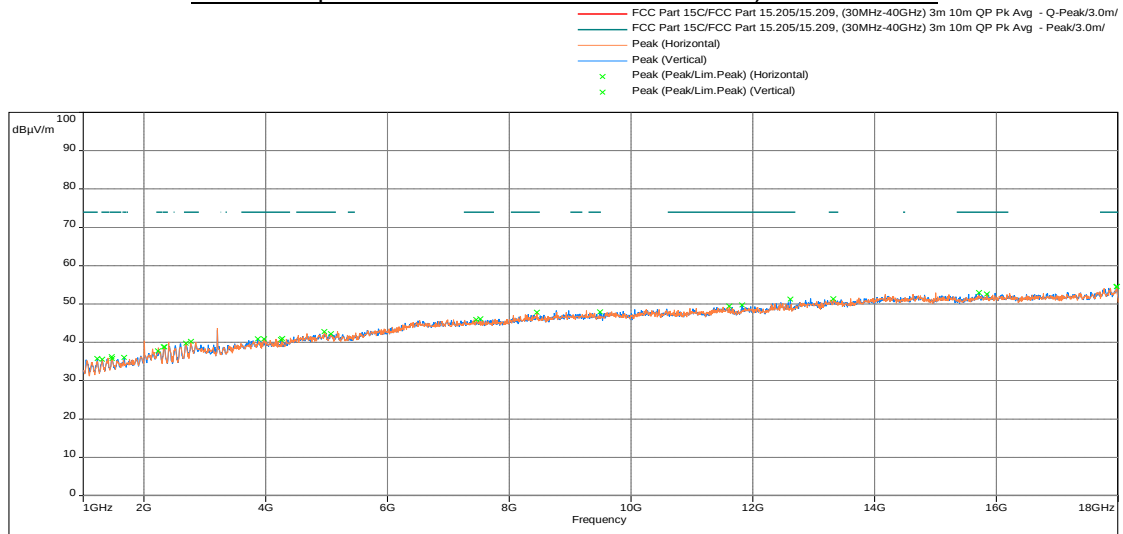


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

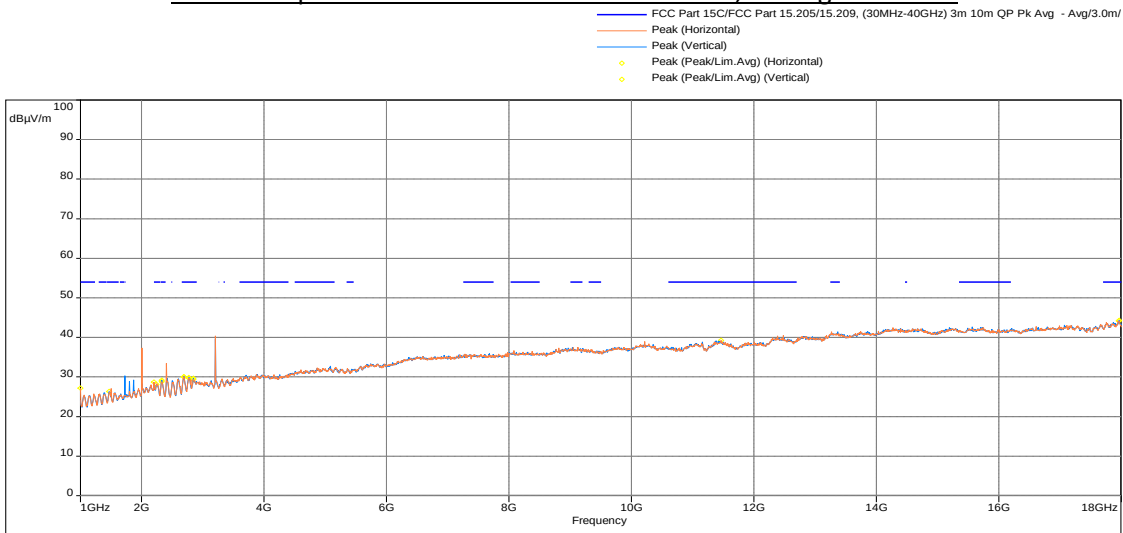


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
611.353	23.17	46.00	-22.83	188.25	Vertical	-6.25
1000.000	31.14	54.00	-22.86	240.87	Horizontal	0.54
399.990	22.96	46.00	-23.04	150.69	Horizontal	-10.44
609.995	22.37	46.00	-23.63	59.52	Horizontal	-6.35
133.952	19.73	43.50	-23.77	161.70	Vertical	-14.97
132.982	19.64	43.50	-23.86	203.28	Vertical	-15.07

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



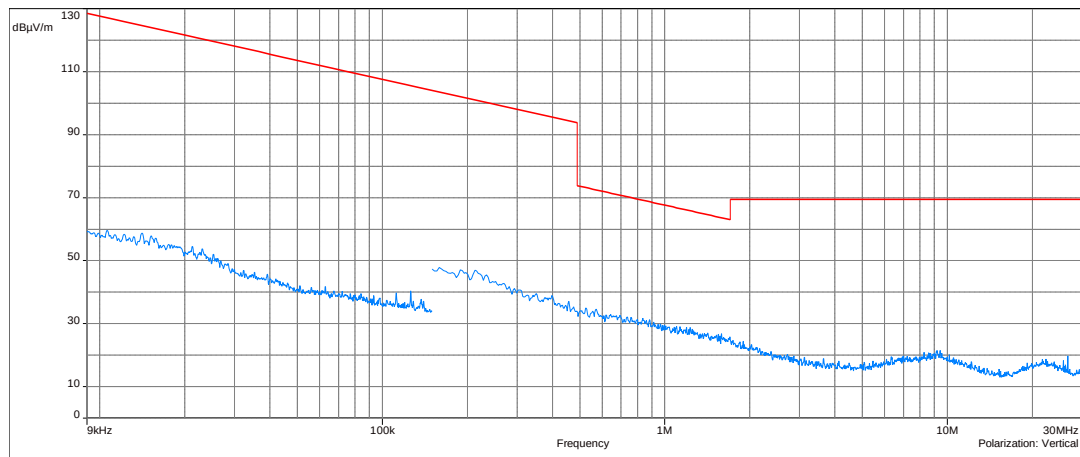
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17979.033	Peak	54.61	74.00	-19.39	28.79	Horizontal	5.62
17972.233	Peak	54.43	74.00	-19.57	212.25	Vertical	5.61
15715.200	Peak	52.95	74.00	-21.05	10.68	Vertical	5.49
17969.400	Average	44.28	54.00	-9.72	203.03	Vertical	5.61
17962.033	Average	44.19	54.00	-9.81	156.97	Horizontal	5.60
11464.067	Average	39.27	54.00	-14.73	156.97	Horizontal	4.71

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

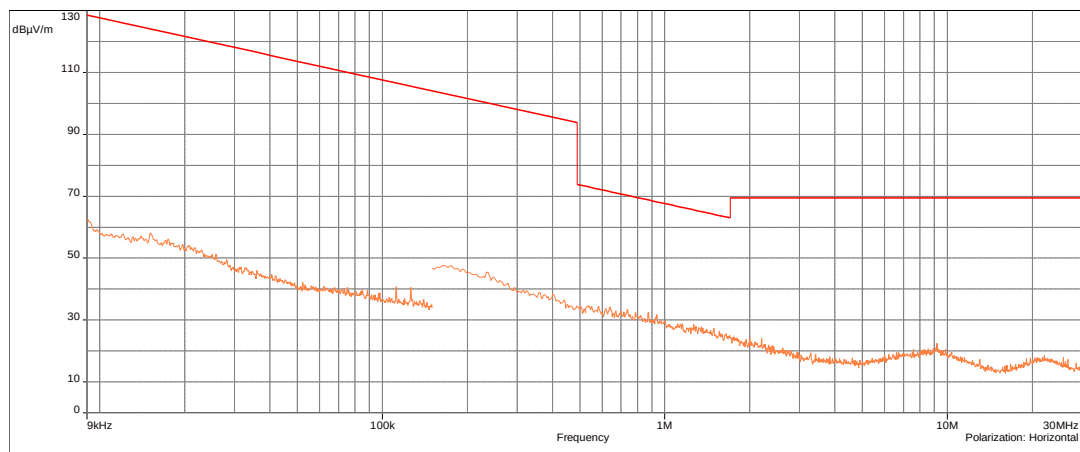
**Test Results: 15.209 Radiated Spurious Emissions, $\Pi/4$ -DQPSK Tx at 2402 MHz
Battery Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

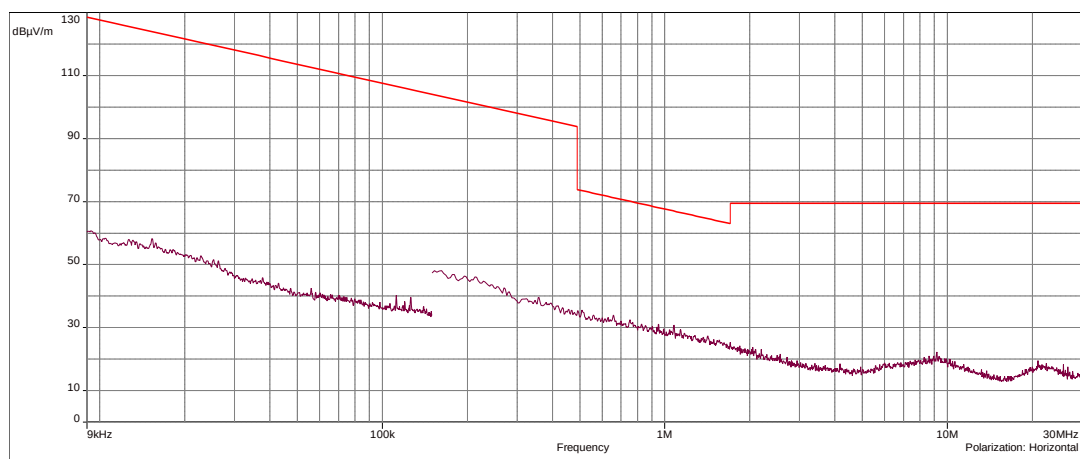
Antenna
Position -
Coaxial



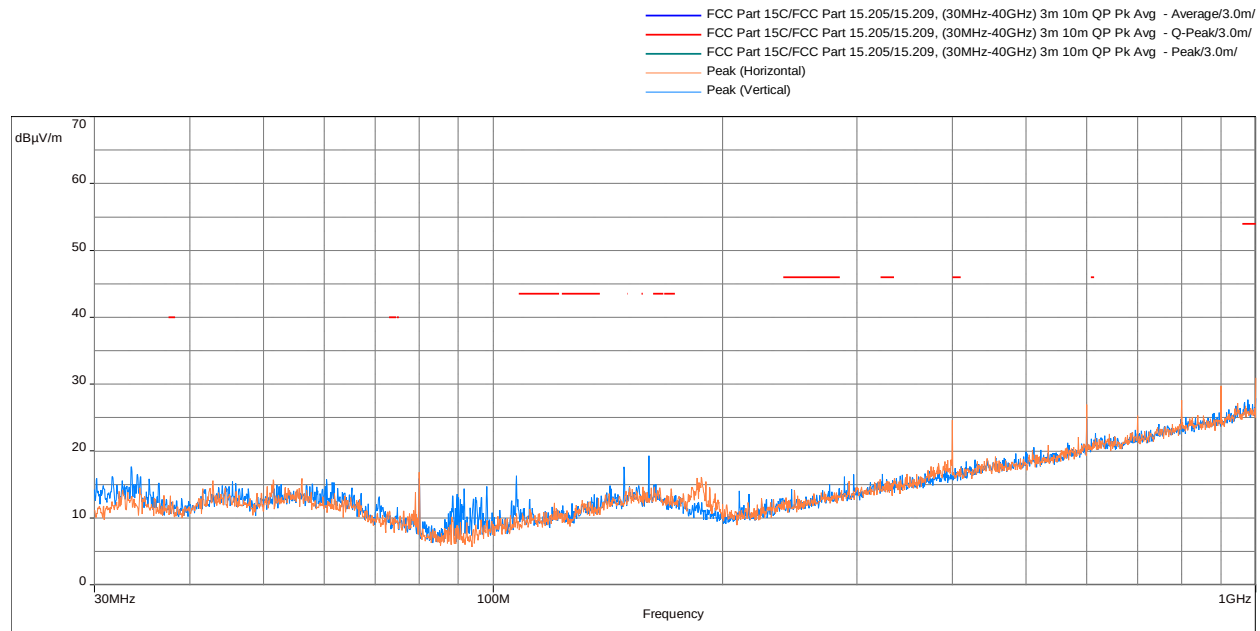
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

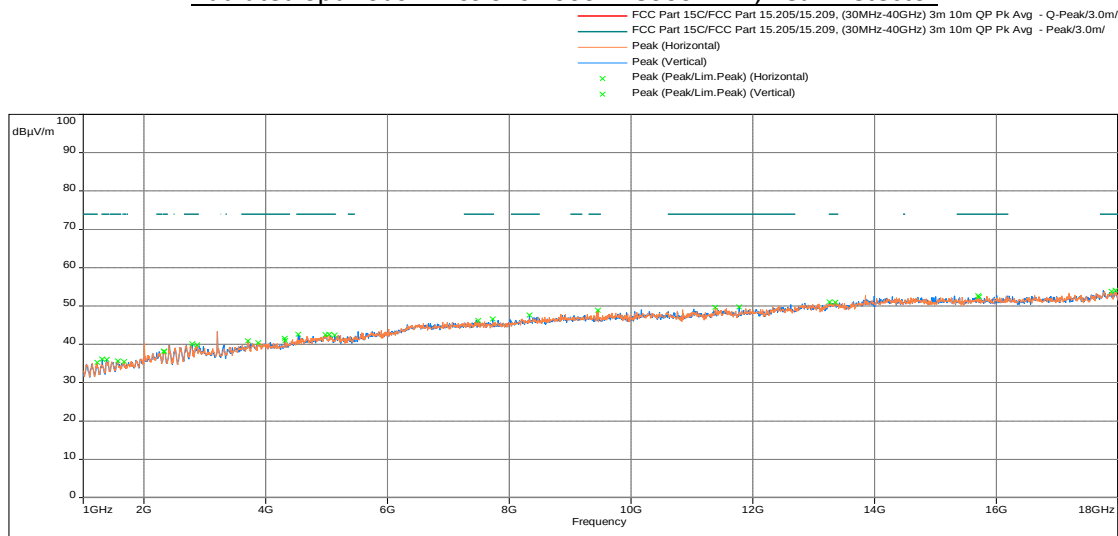


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

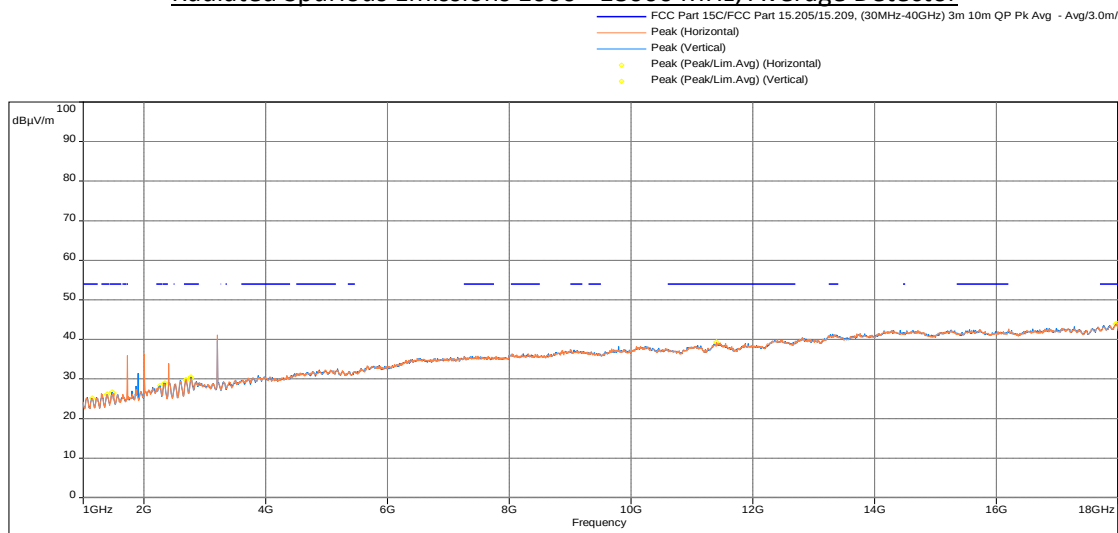


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	24.65	46.00	-21.35	112.62	Horizontal	-10.44
1000.000	30.97	54.00	-23.03	213.33	Horizontal	0.54
608.637	21.81	46.00	-24.19	0.06	Vertical	-6.39
613.746	21.70	46.00	-24.30	285.45	Vertical	-6.14
612.808	21.44	46.00	-24.56	266.43	Horizontal	-6.16
1000.000	27.88	54.00	-26.12	221.82	Vertical	0.54

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



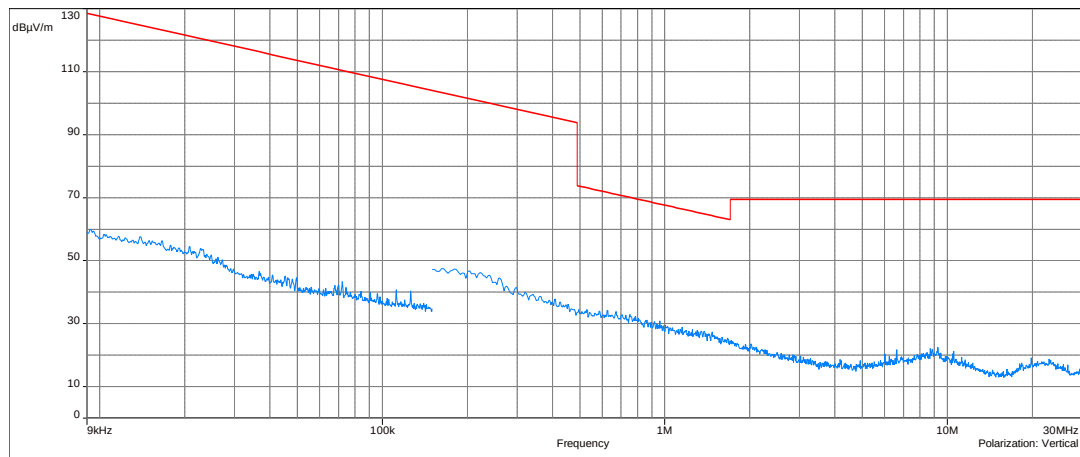
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17962.033	Peak	54.13	74.00	-19.87	342.16	Vertical	5.60
17892.900	Peak	53.79	74.00	-20.21	106.59	Horizontal	5.56
15699.900	Peak	52.67	74.00	-21.33	0.00	Horizontal	5.49
17977.333	Average	44.01	54.00	-9.99	156.58	Horizontal	5.62
17961.467	Average	43.88	54.00	-10.12	272.10	Vertical	5.60
11400.600	Average	39.37	54.00	-14.63	226.21	Horizontal	4.78

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

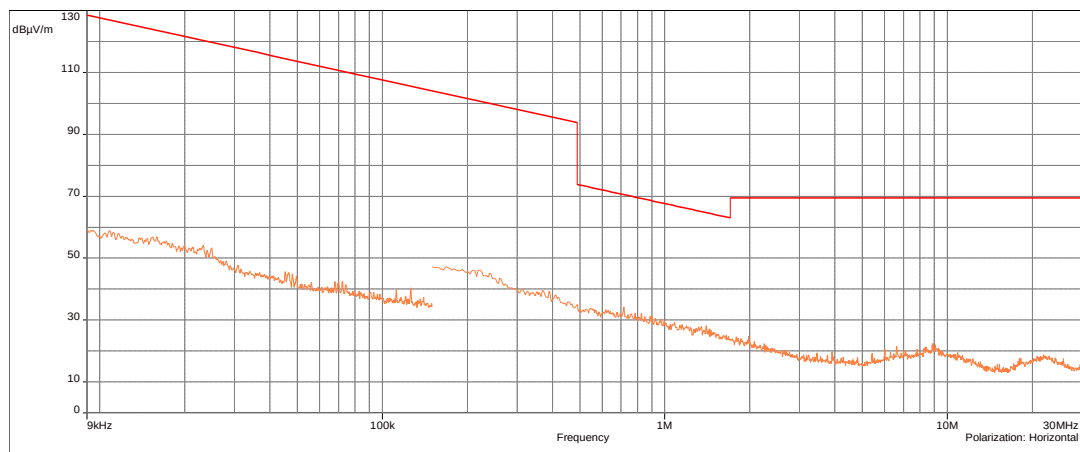
**Test Results: 15.209 Radiated Spurious Emissions, $\pi/4$ -DQPSK Tx at 2440 MHz
Charging Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

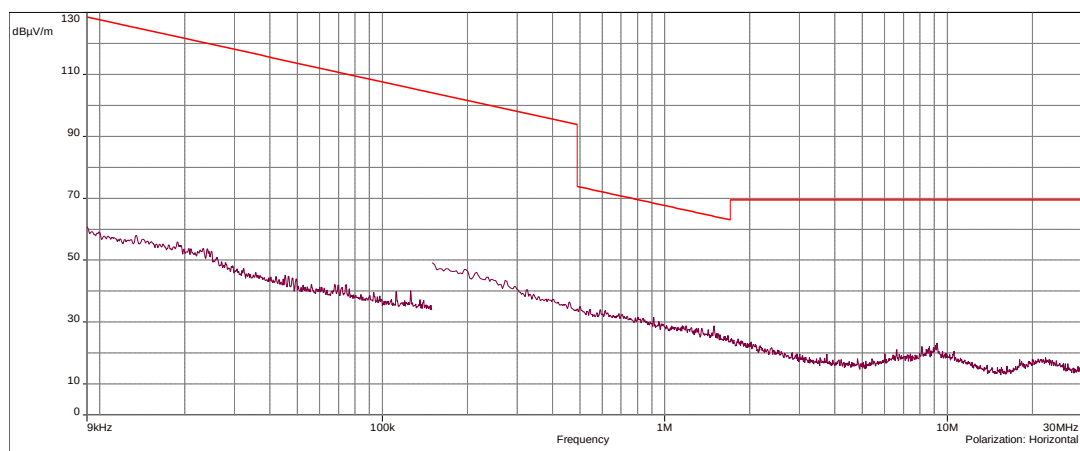
Antenna
Position -
Coaxial



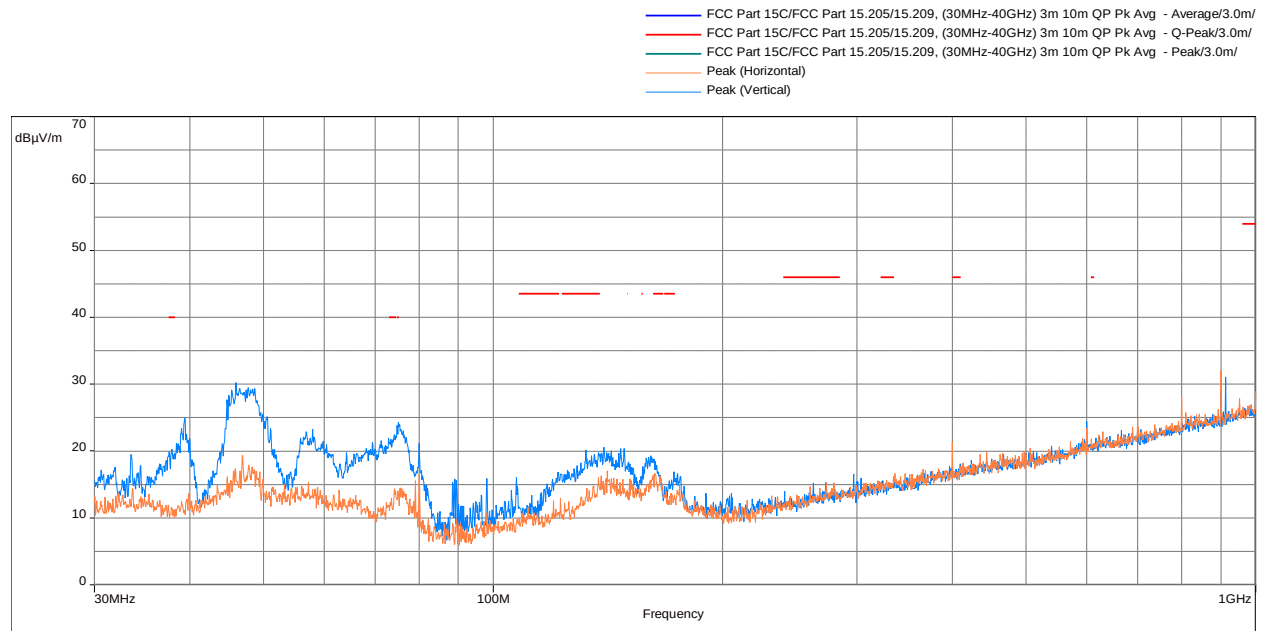
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

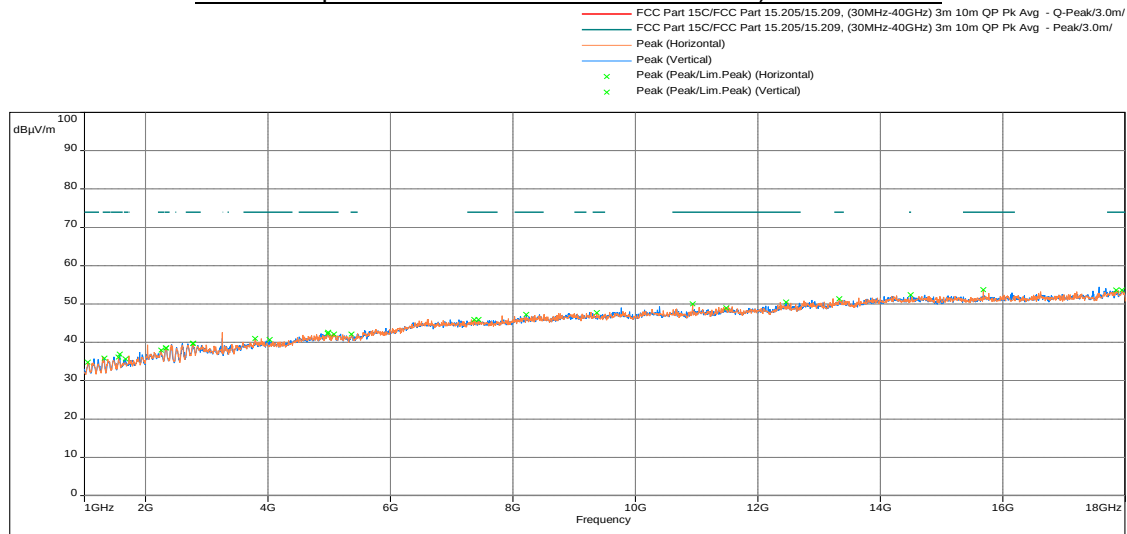


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

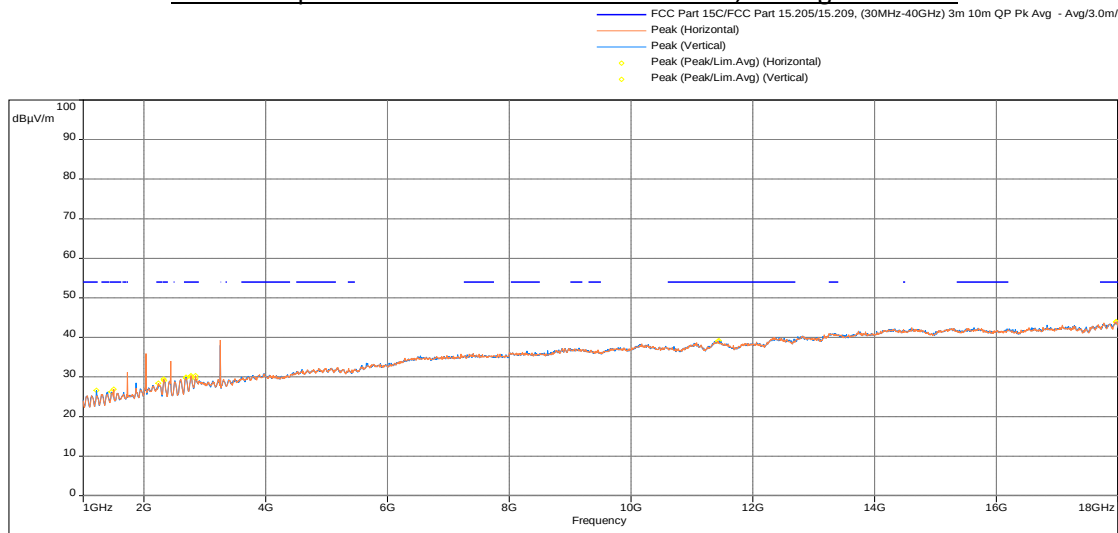


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
75.105	24.31	40.00	-15.69	263.40	Vertical	-17.17
132.303	20.15	43.50	-23.35	175.74	Vertical	-15.14
137.476	19.76	43.50	-23.74	168.72	Vertical	-14.50
608.573	21.83	46.00	-24.17	0.61	Horizontal	-6.40
399.990	21.27	46.00	-24.73	202.80	Horizontal	-10.44
613.390	21.19	46.00	-24.81	12.59	Vertical	-6.14

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



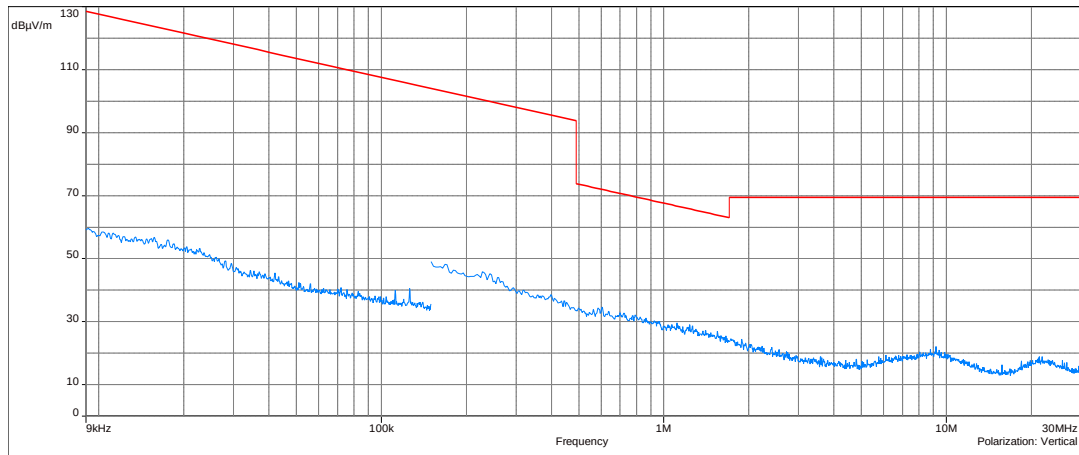
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
15680.067	Peak	53.73	74.00	-20.27	201.70	Horizontal	5.45
17851.533	Peak	53.66	74.00	-20.34	304.35	Vertical	5.52
17945.600	Peak	53.65	74.00	-20.35	216.43	Horizontal	5.59
17966.567	Average	43.97	54.00	-10.03	248.52	Horizontal	5.61
17964.867	Average	43.94	54.00	-10.06	156.17	Vertical	5.61
11442.533	Average	39.14	54.00	-14.86	318.16	Vertical	4.73

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

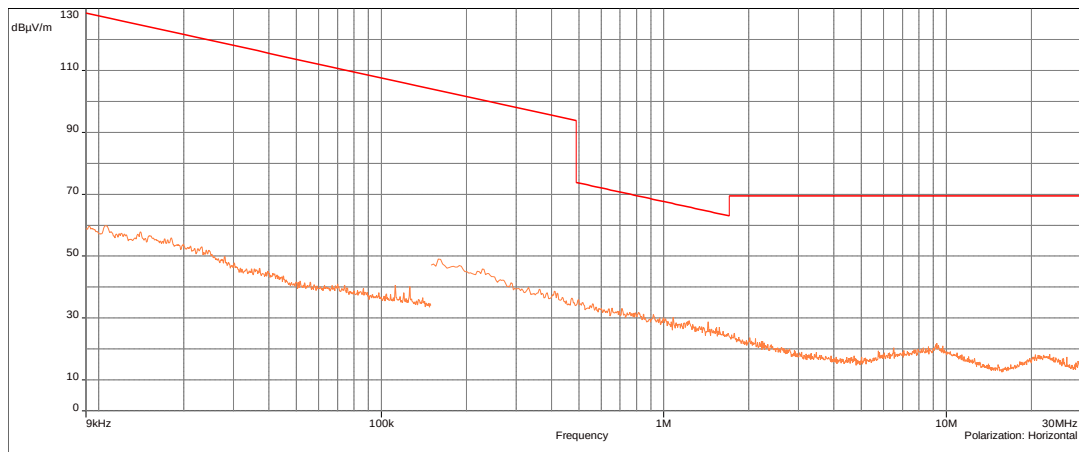
**Test Results: 15.209 Radiated Spurious Emissions, $\Pi/4$ -DQPSK Tx at 2440 MHz
Battery Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

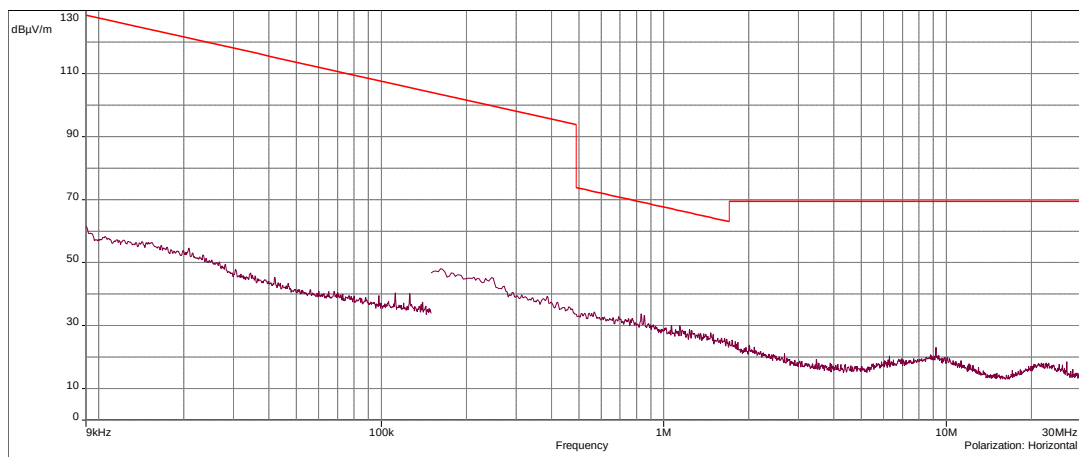
Antenna
Position -
Coaxial



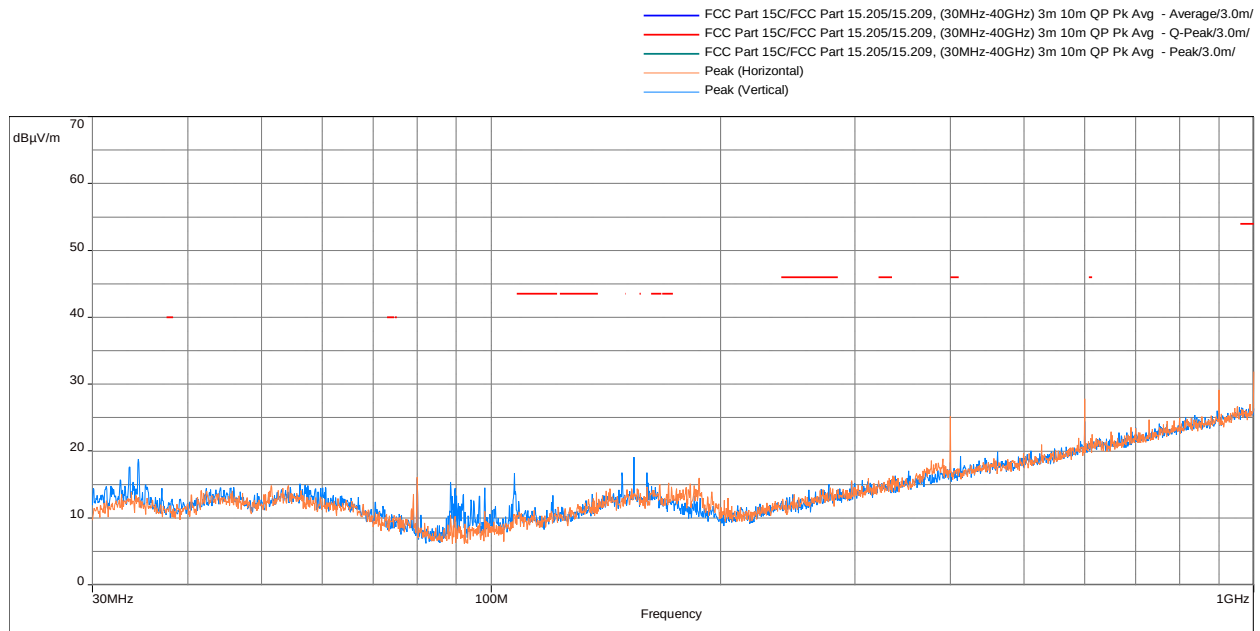
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

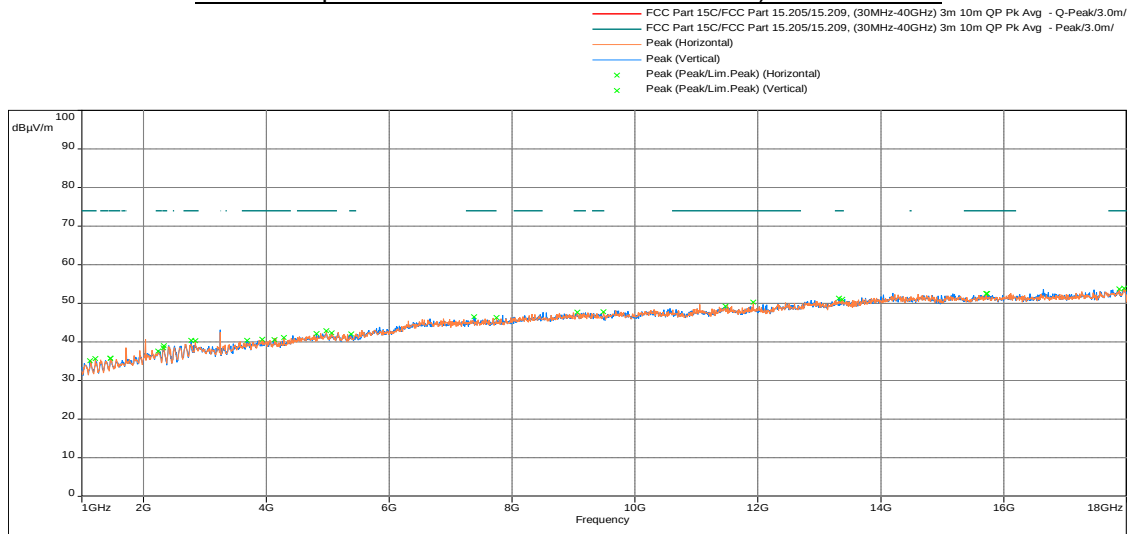


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

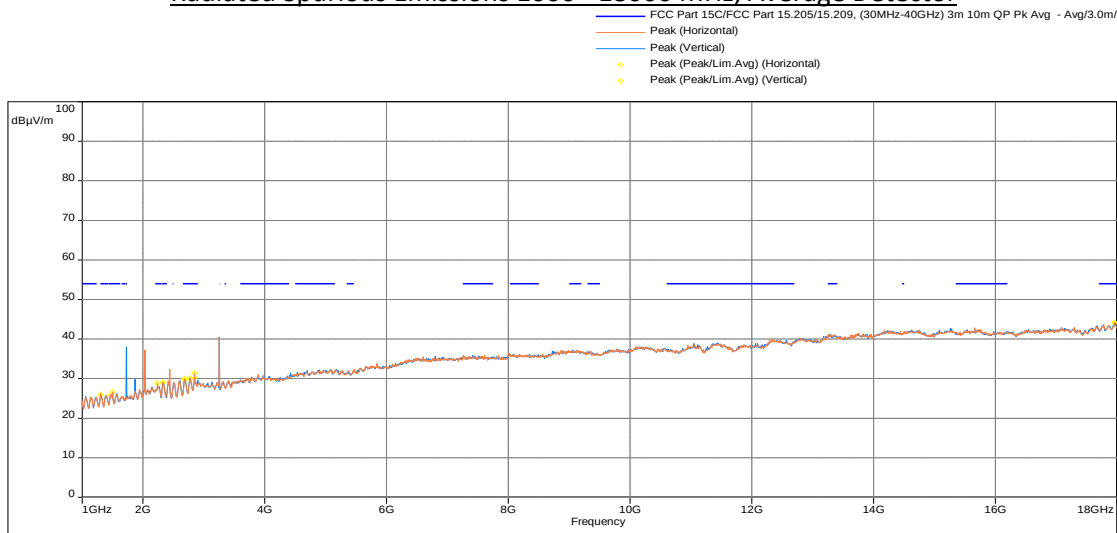


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	25.25	46.00	-20.75	66.54	Horizontal	-10.44
1000.000	31.85	54.00	-22.15	214.32	Horizontal	0.54
613.423	22.52	46.00	-23.48	127.65	Horizontal	-6.14
611.095	21.92	46.00	-24.08	51.51	Horizontal	-6.25
608.540	21.18	46.00	-24.82	51.51	Vertical	-6.40
988.651	27.03	54.00	-26.97	359.90	Horizontal	0.37

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



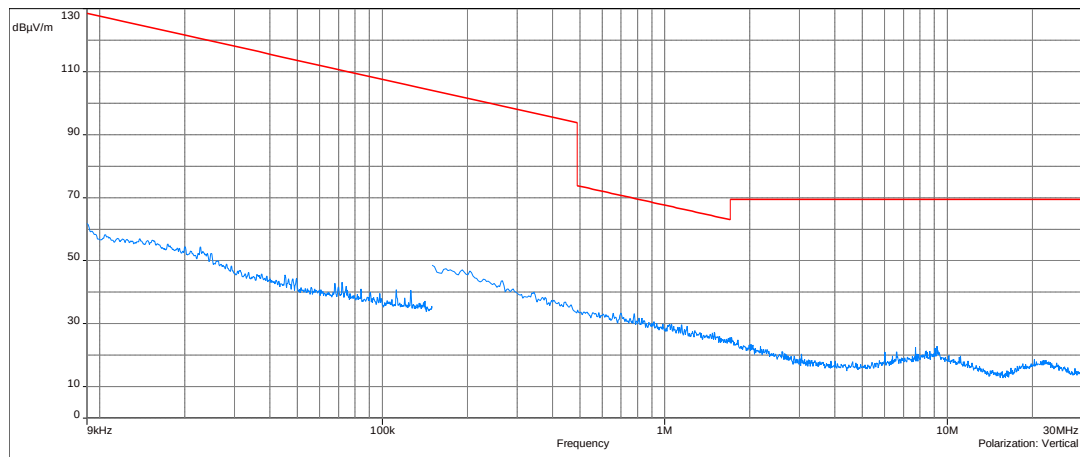
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17960.333	Peak	53.91	74.00	-20.09	213.04	Horizontal	5.60
17883.833	Peak	53.70	74.00	-20.30	208.85	Vertical	5.55
15716.900	Peak	52.53	74.00	-21.47	16.64	Horizontal	5.49
17954.100	Average	44.18	54.00	-9.82	17.87	Horizontal	5.60
17963.167	Average	44.10	54.00	-9.90	0.00	Vertical	5.61
2846.200	Average	31.45	54.00	-22.55	318.55	Horizontal	-2.70

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

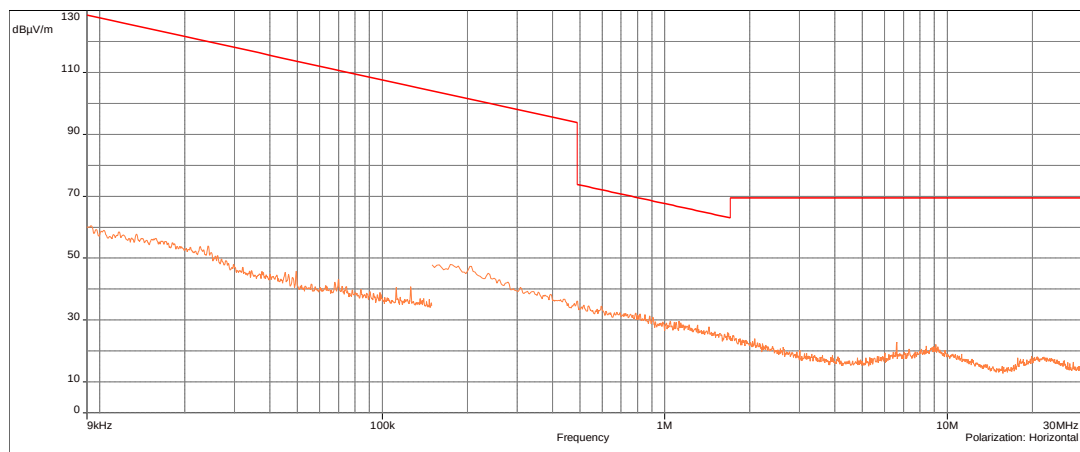
**Test Results: 15.209 Radiated Spurious Emissions, $\Pi/4$ -DQPSK Tx at 2480 MHz
Charging Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

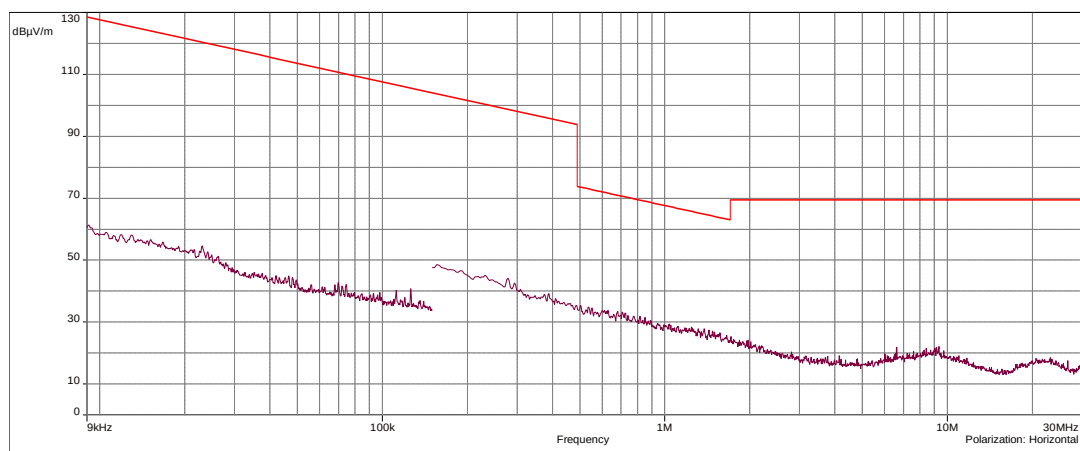
Antenna
Position -
Coaxial



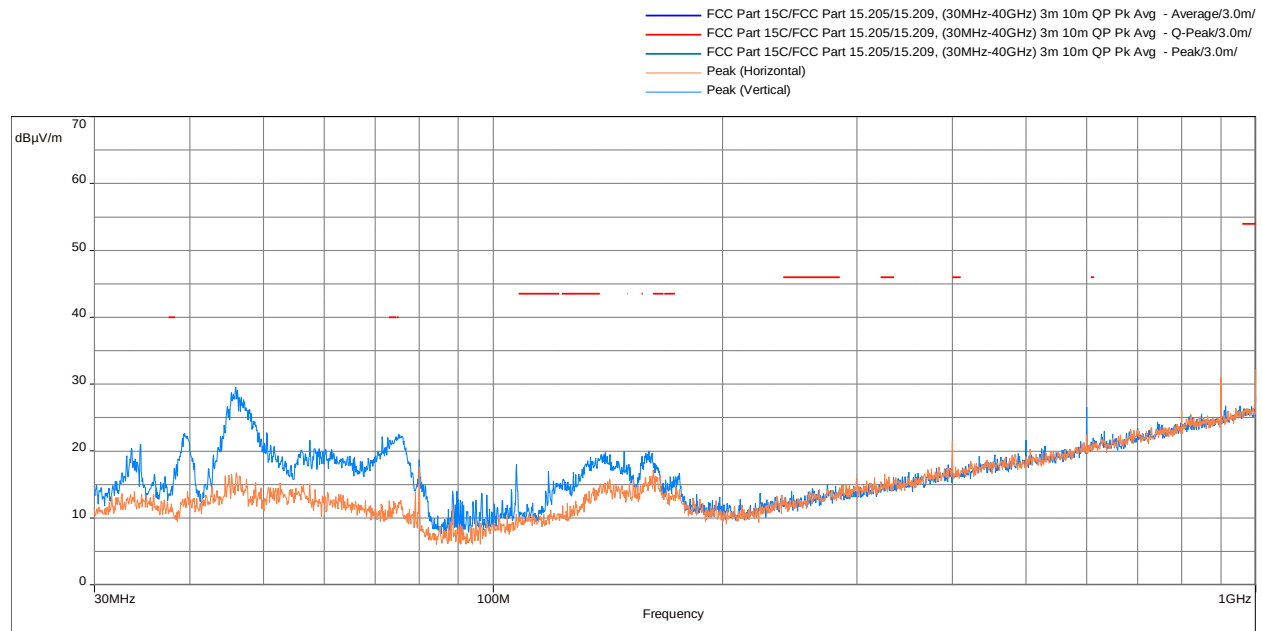
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

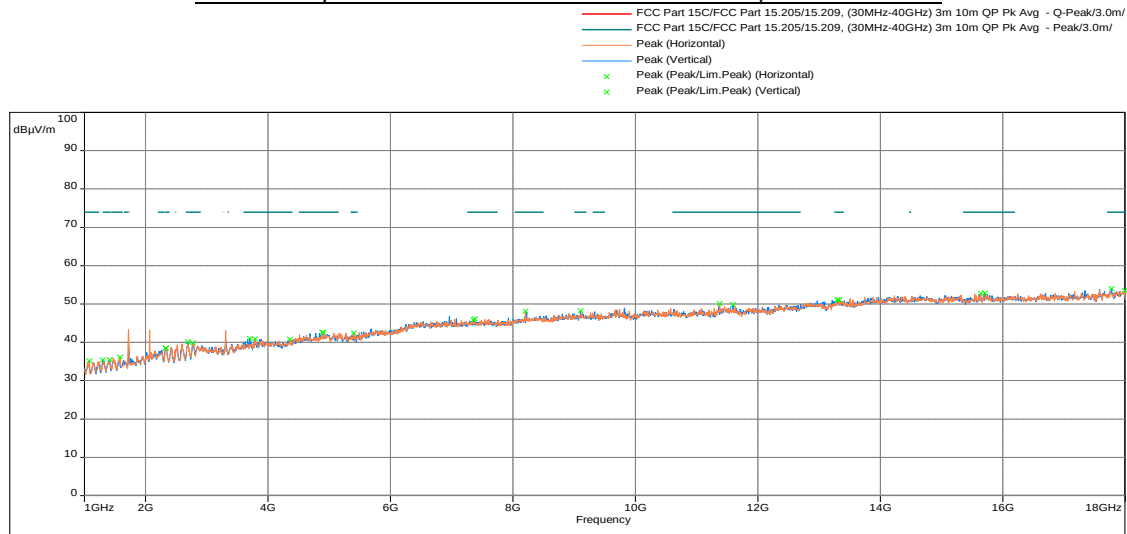


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

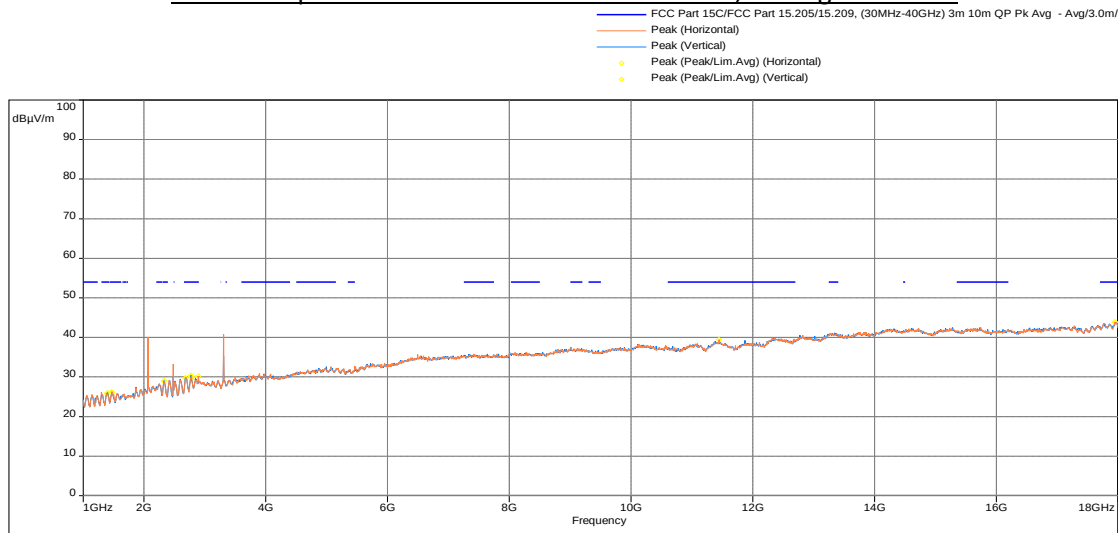


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
75.170	22.57	40.00	-17.43	237.84	Vertical	-17.18
1000.000	32.19	54.00	-21.81	324.03	Horizontal	0.54
612.356	21.96	46.00	-24.04	249.36	Vertical	-6.21
156.714	19.23	43.50	-24.27	132.63	Vertical	-13.37
134.178	19.10	43.50	-24.40	166.20	Vertical	-14.94
613.164	21.52	46.00	-24.48	119.64	Horizontal	-6.14

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



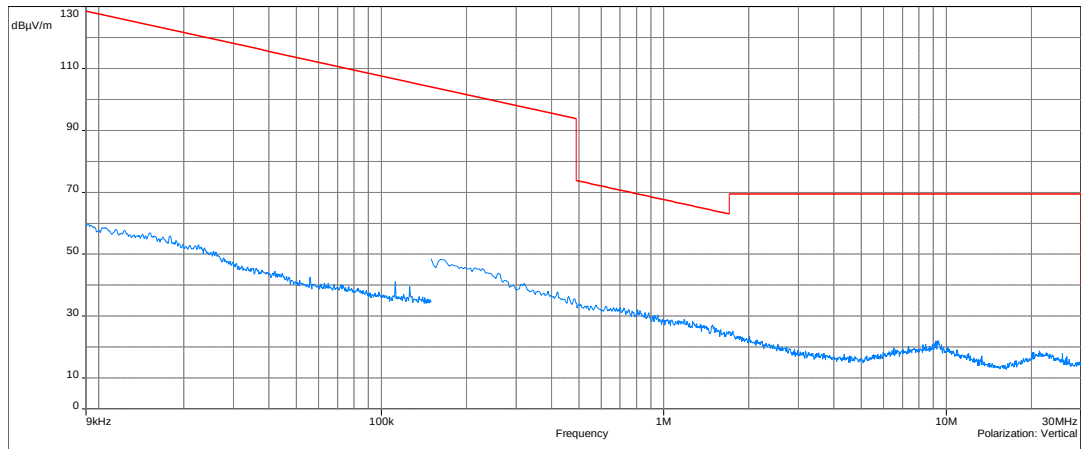
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17777.867	Peak	53.98	74.00	-20.02	186.97	Vertical	5.46
17990.933	Peak	53.56	74.00	-20.44	17.85	Horizontal	5.63
15706.133	Peak	52.83	74.00	-21.17	267.35	Vertical	5.49
17949.000	Average	43.88	54.00	-10.12	179.76	Horizontal	5.59
17949.567	Average	43.84	54.00	-10.16	341.26	Vertical	5.59
11442.533	Average	39.45	54.00	-14.55	156.58	Horizontal	4.73

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

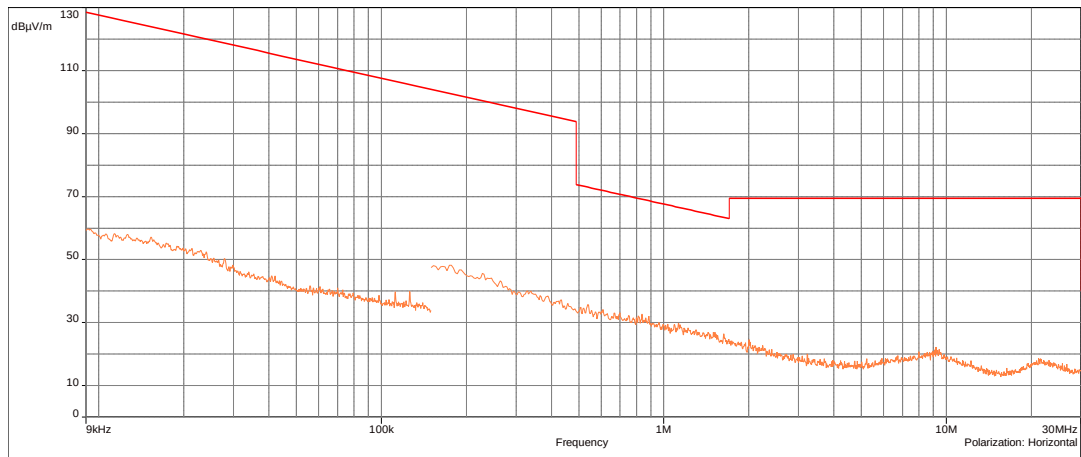
**Test Results: 15.209 Radiated Spurious Emissions, $\Pi/4$ -DQPSK Tx at 2480 MHz
Battery Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

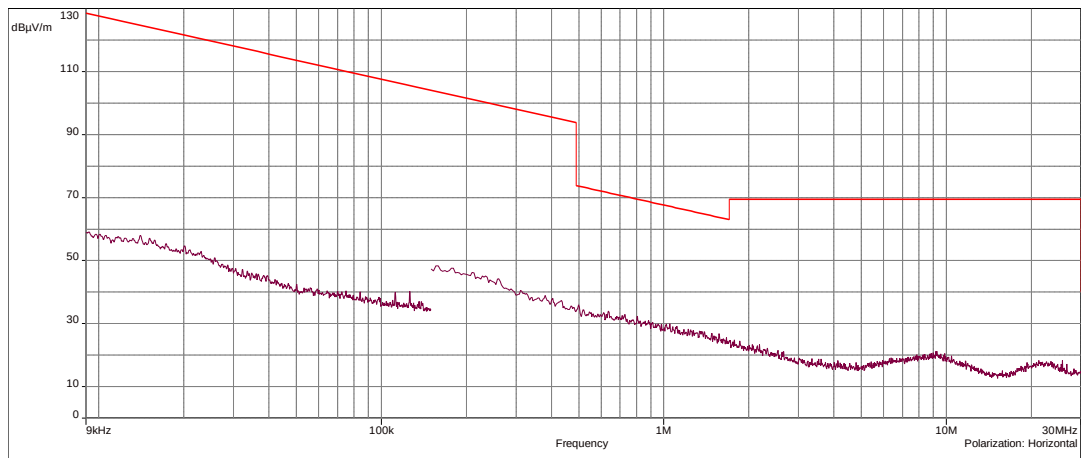
Antenna
Position -
Coaxial



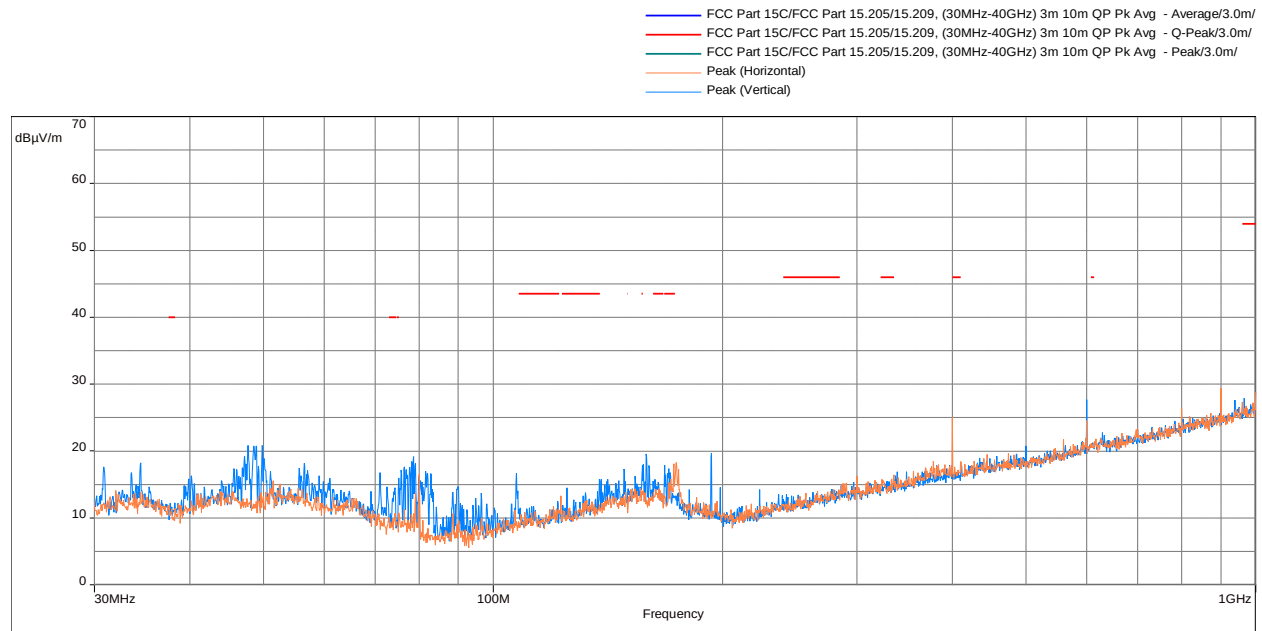
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

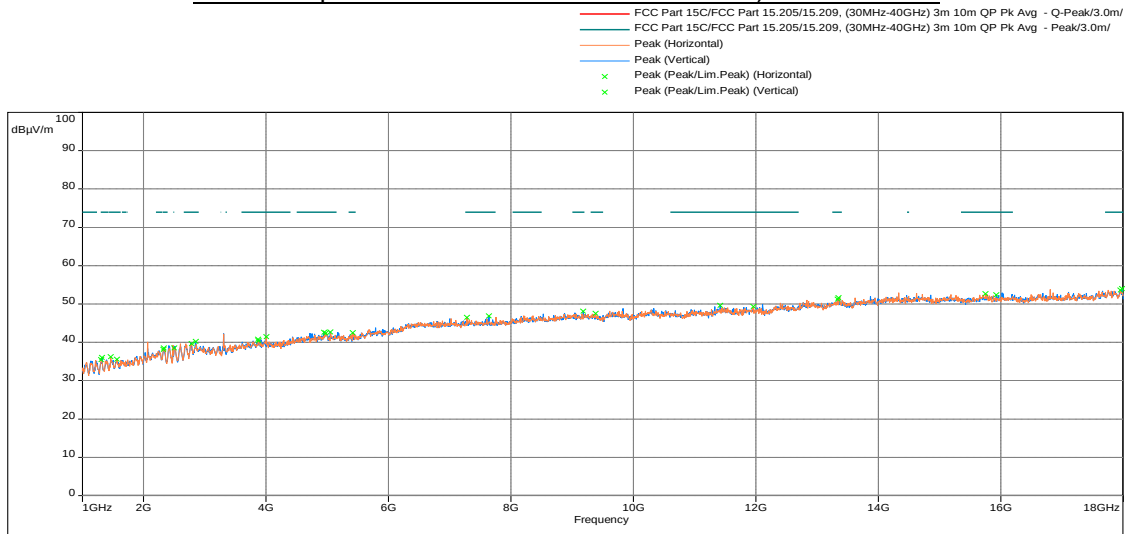


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

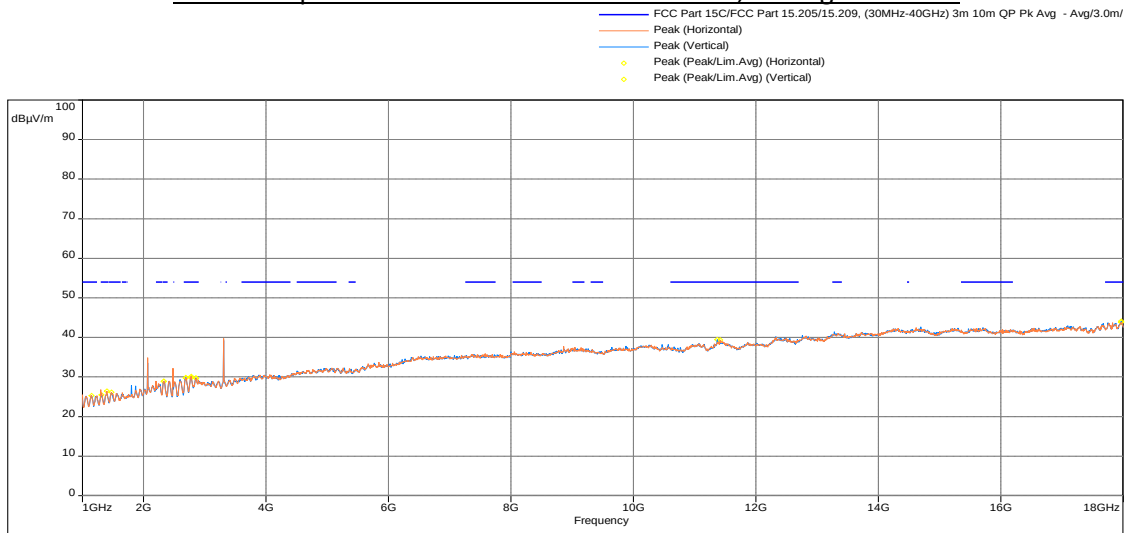


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	25.03	46.00	-20.97	254.40	Horizontal	-10.44
611.030	21.23	46.00	-24.77	271.92	Vertical	-6.25
612.647	21.20	46.00	-24.80	230.34	Vertical	-6.18
608.605	21.17	46.00	-24.83	8.35	Horizontal	-6.39
610.610	21.15	46.00	-24.85	214.32	Vertical	-6.29
1000.000	28.80	54.00	-25.20	300.48	Horizontal	0.54

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



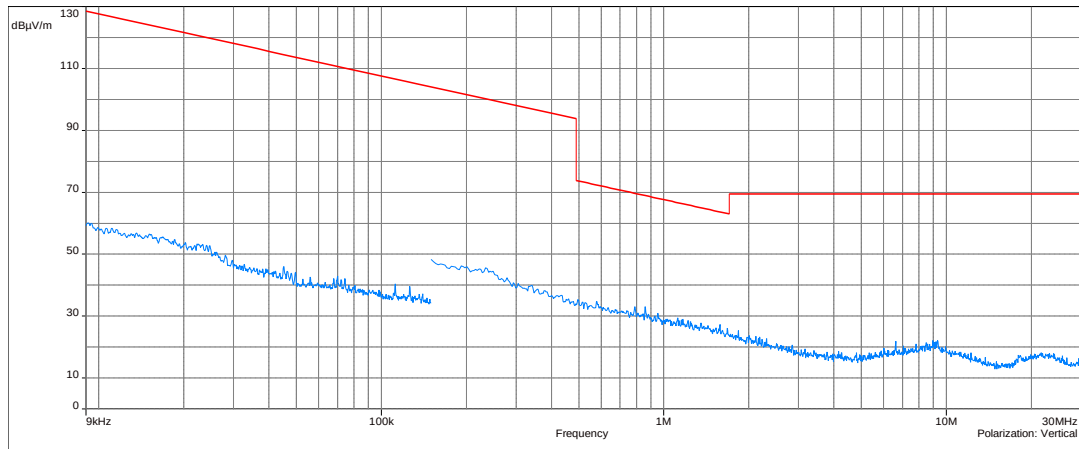
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17980.733	Peak	53.99	74.00	-20.01	168.85	Vertical	5.62
17950.700	Peak	53.66	74.00	-20.34	164.69	Horizontal	5.59
15746.933	Peak	52.65	74.00	-21.35	274.90	Horizontal	5.51
17963.733	Average	44.11	54.00	-9.89	88.30	Vertical	5.61
17965.433	Average	43.85	54.00	-10.15	156.58	Horizontal	5.61
11368.300	Average	39.41	54.00	-14.59	272.58	Vertical	4.78

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

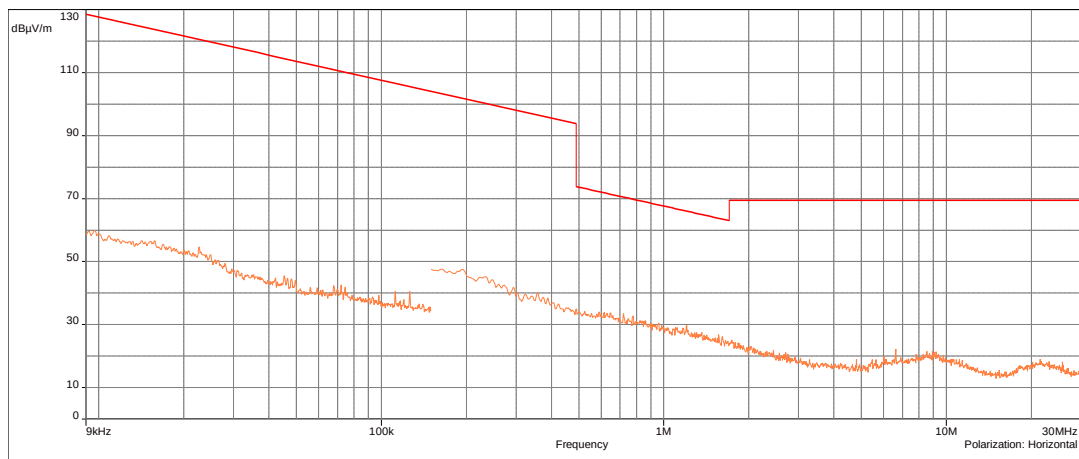
**Test Results: 15.209 Radiated Spurious Emissions, 8-DPSK Tx at 2402 MHz
Charging Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

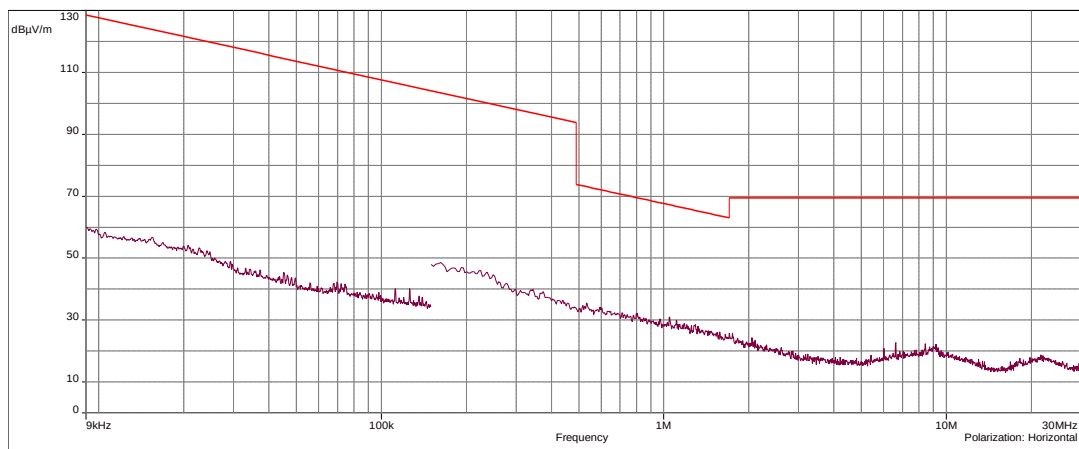
Antenna
Position -
Coaxial



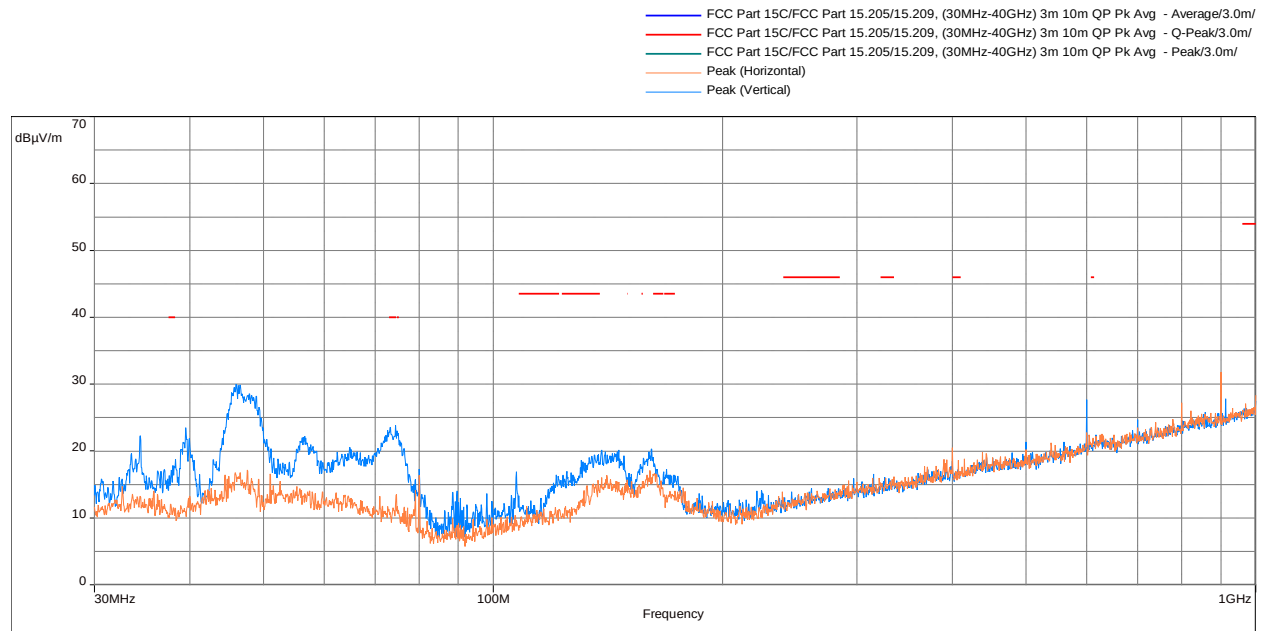
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

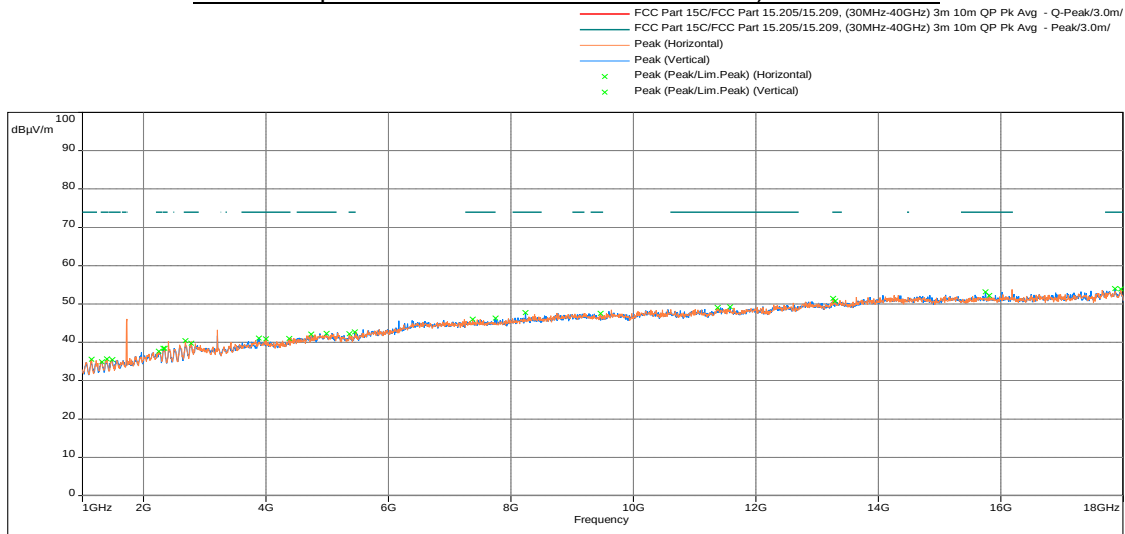


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

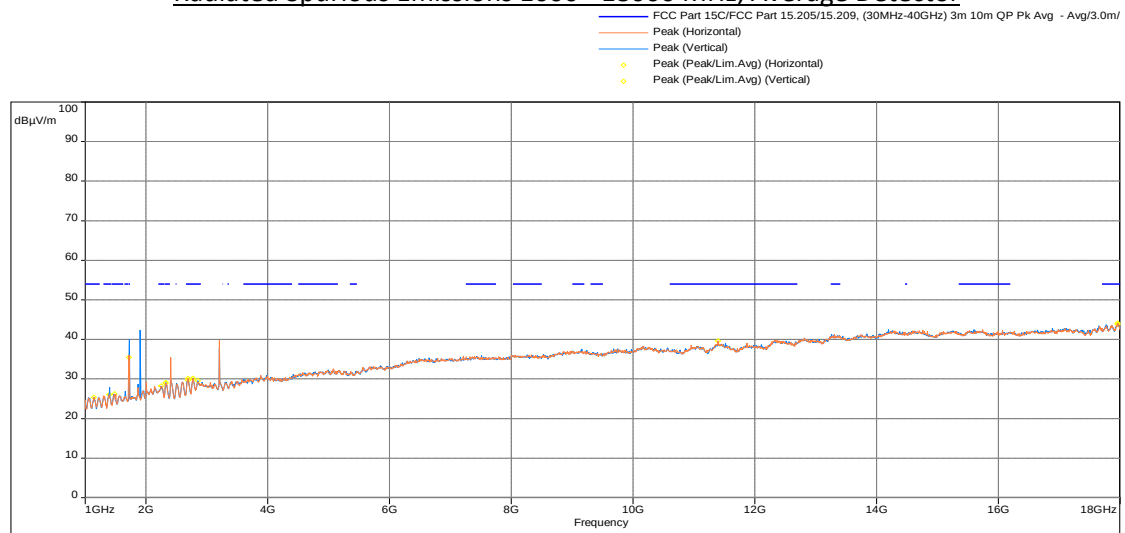


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
74.491	23.83	40.00	-16.17	269.94	Vertical	-17.00
612.226	21.98	46.00	-24.02	2.47	Horizontal	-6.22
611.418	21.79	46.00	-24.21	43.98	Horizontal	-6.25
134.663	19.22	43.50	-24.28	164.73	Vertical	-14.89
133.628	19.07	43.50	-24.43	175.26	Vertical	-15.00
130.524	18.66	43.50	-24.84	29.46	Vertical	-15.42

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



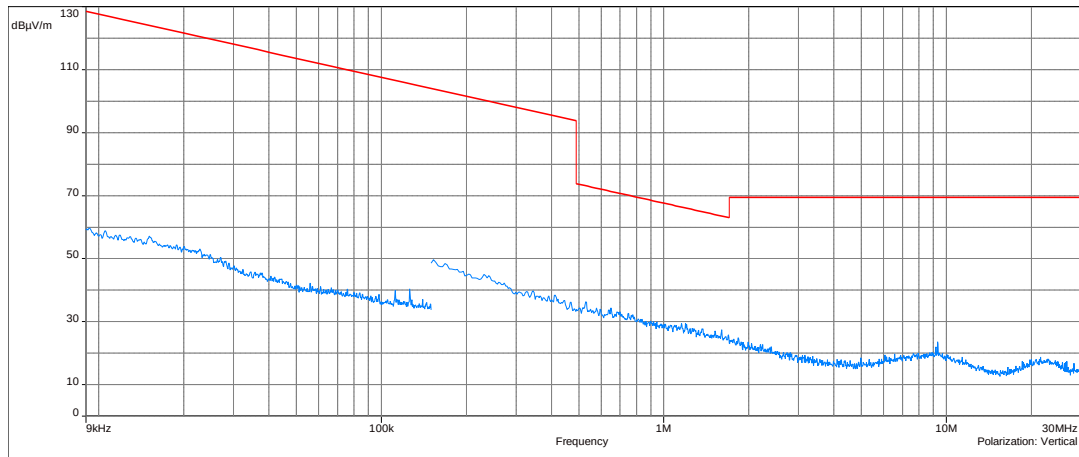
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17867.400	Peak	53.96	74.00	-20.04	320.68	Vertical	5.53
17962.033	Peak	53.89	74.00	-20.11	321.47	Horizontal	5.60
15747.500	Peak	53.13	74.00	-20.87	342.16	Vertical	5.51
17956.933	Average	44.11	54.00	-9.89	225.34	Horizontal	5.60
17957.500	Average	43.78	54.00	-10.22	18.74	Vertical	5.60
11394.933	Average	39.62	54.00	-14.38	40.66	Horizontal	4.78

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

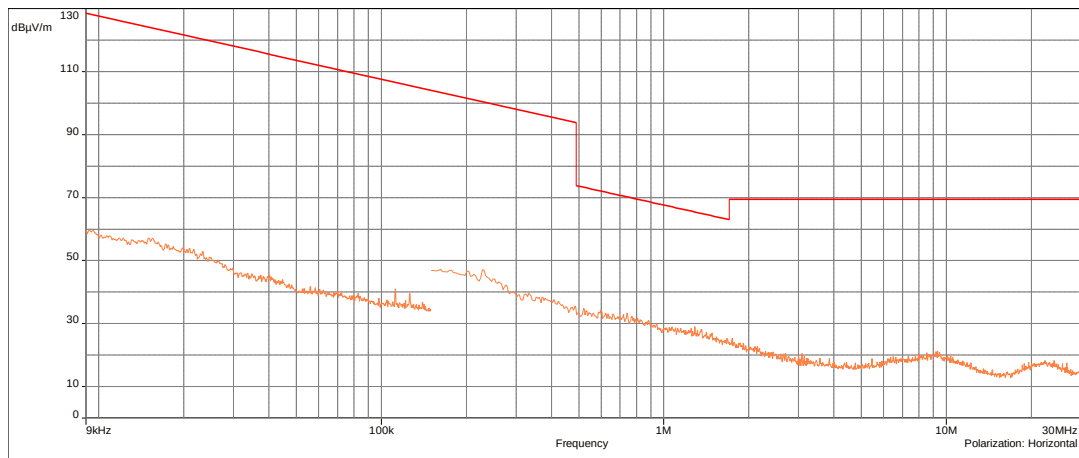
**Test Results: 15.209 Radiated Spurious Emissions, 8-DPSK Tx at 2402 MHz
Battery Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

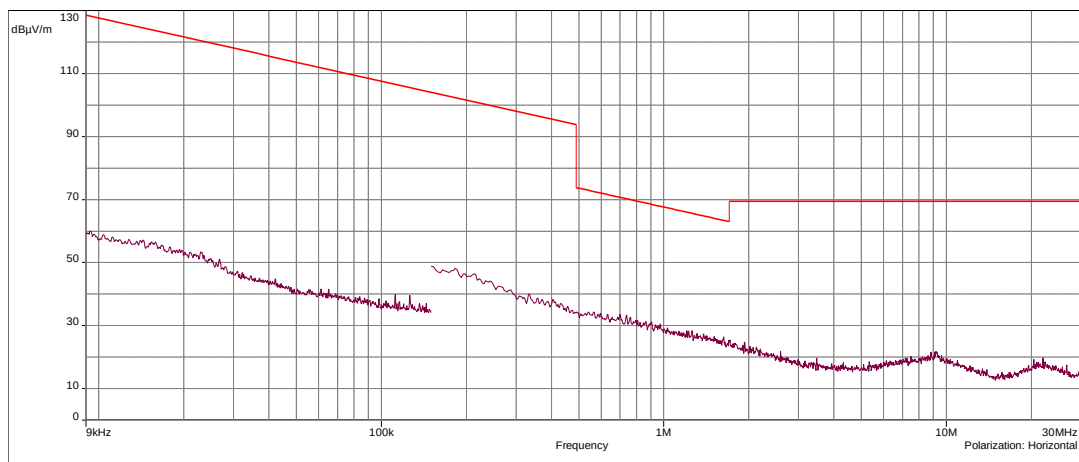
Antenna
Position -
Coaxial



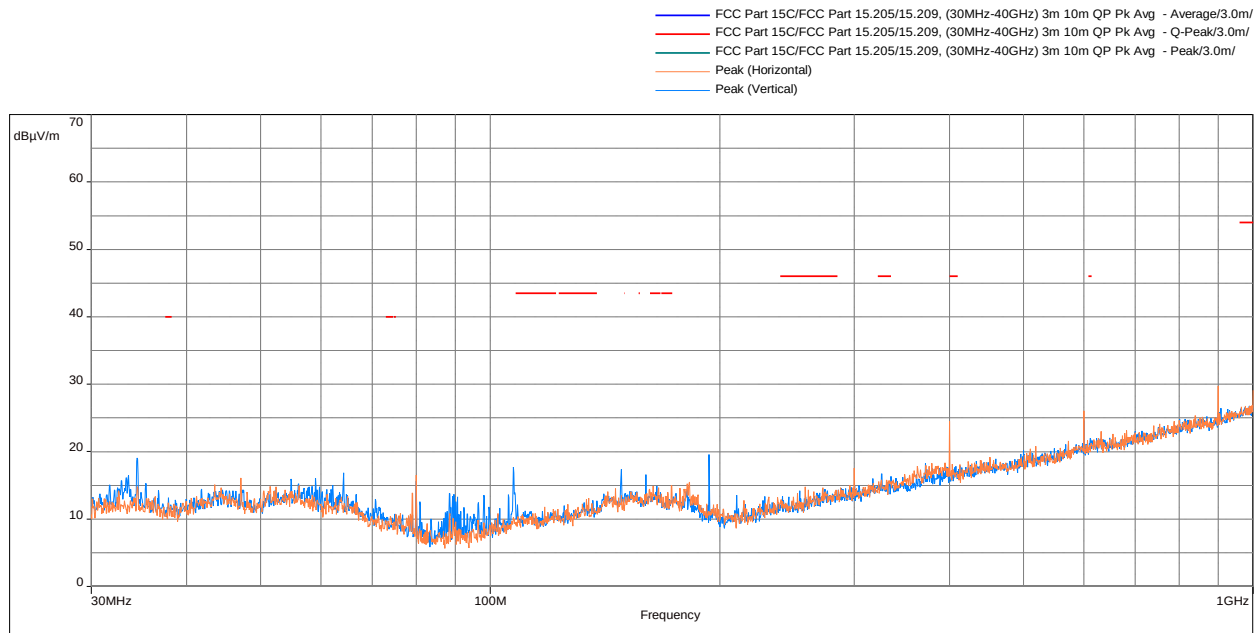
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

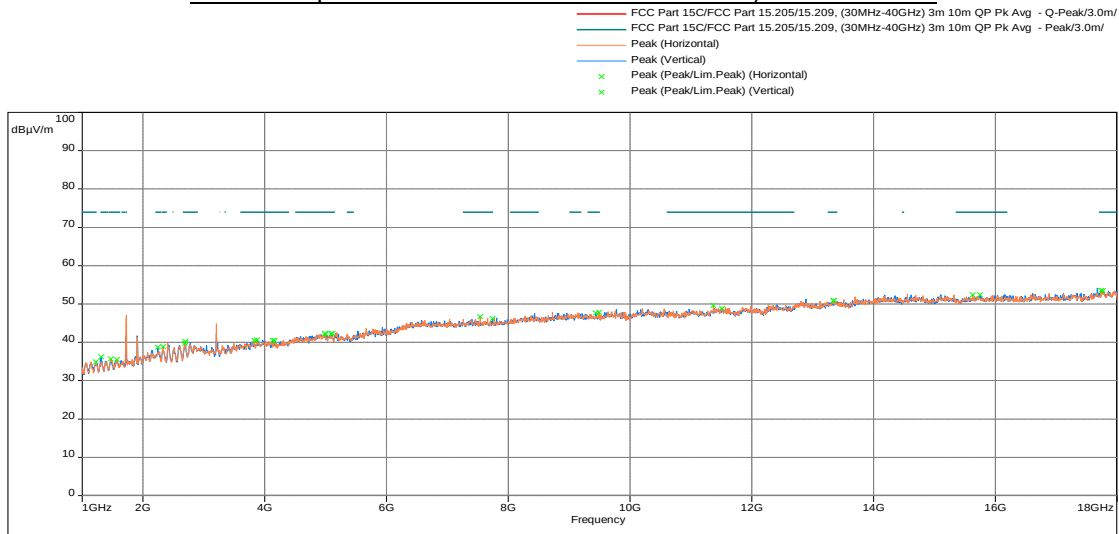


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

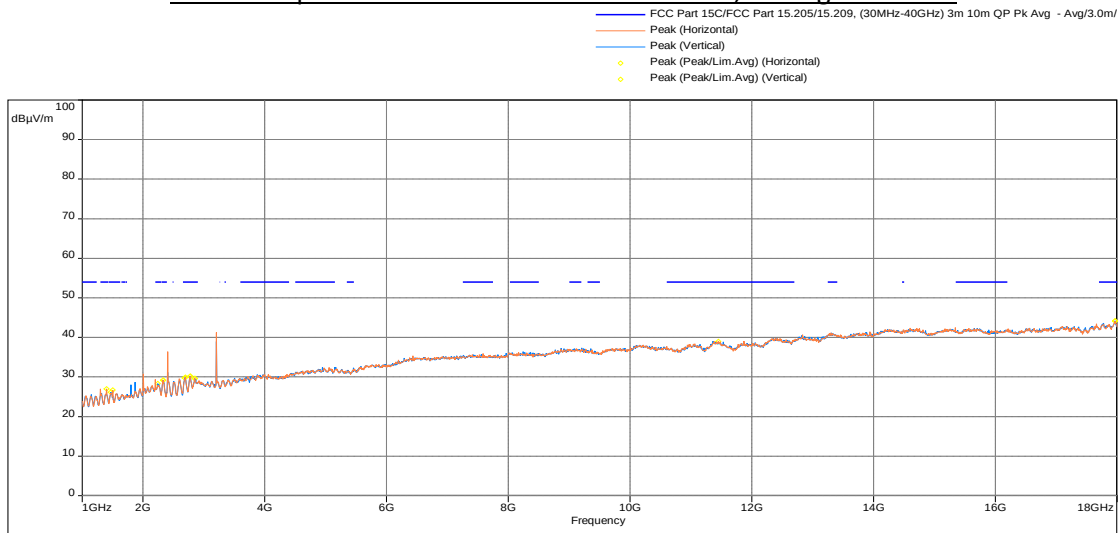


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	24.52	46.00	-21.48	72.06	Horizontal	-10.44
611.968	21.98	46.00	-24.02	269.94	Vertical	-6.24
612.970	21.27	46.00	-24.73	330.54	Horizontal	-6.15
1000.000	29.14	54.00	-24.86	72.06	Horizontal	0.54
995.700	26.85	54.00	-27.15	159.72	Horizontal	0.39
976.817	26.79	54.00	-27.21	242.88	Horizontal	0.06

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



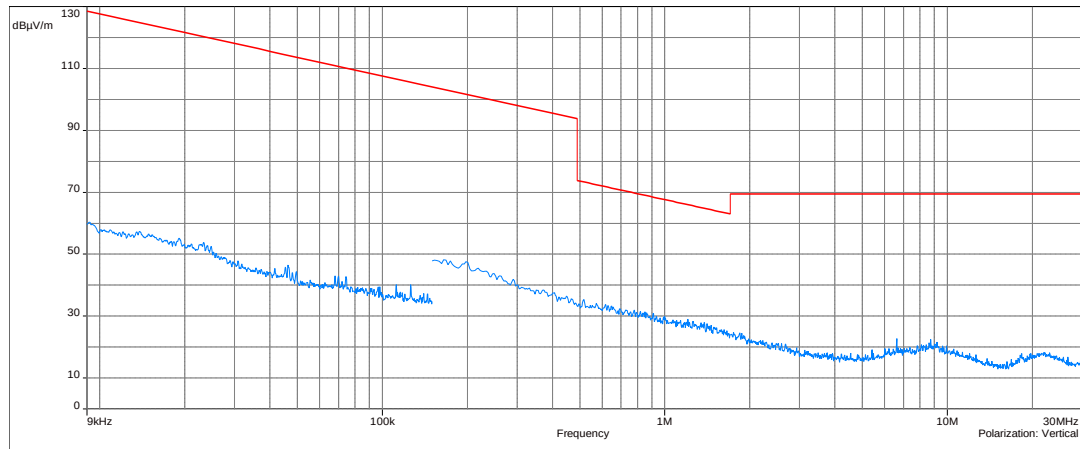
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17737.067	Peak	53.49	74.00	-20.51	230.75	Horizontal	5.43
17760.867	Peak	53.40	74.00	-20.60	284.86	Vertical	5.45
15751.467	Peak	52.43	74.00	-21.57	106.98	Vertical	5.51
17969.400	Average	44.21	54.00	-9.79	202.55	Vertical	5.61
17967.133	Average	44.11	54.00	-9.89	271.70	Horizontal	5.61
11451.600	Average	39.02	54.00	-14.98	0.00	Horizontal	4.72

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

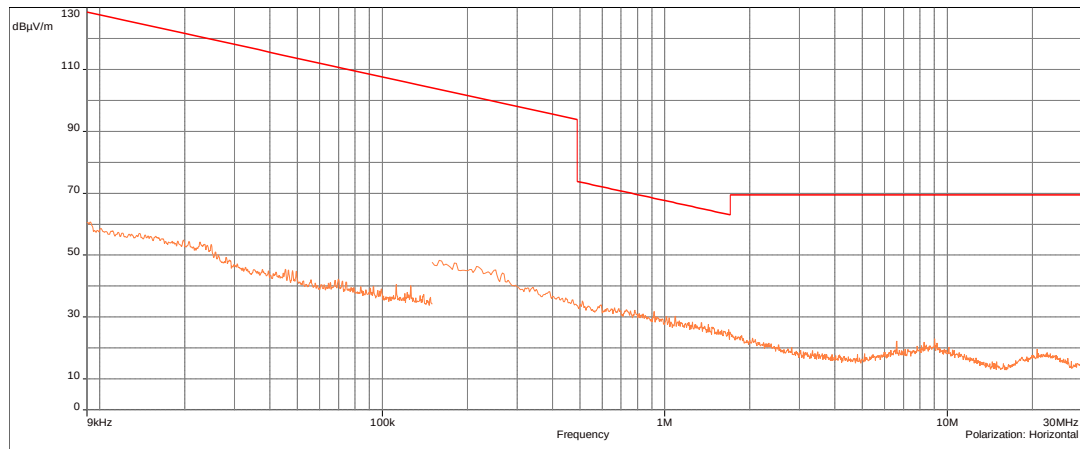
**Test Results: 15.209 Radiated Spurious Emissions, 8-DPSK Tx at 2440 MHz
Charging Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

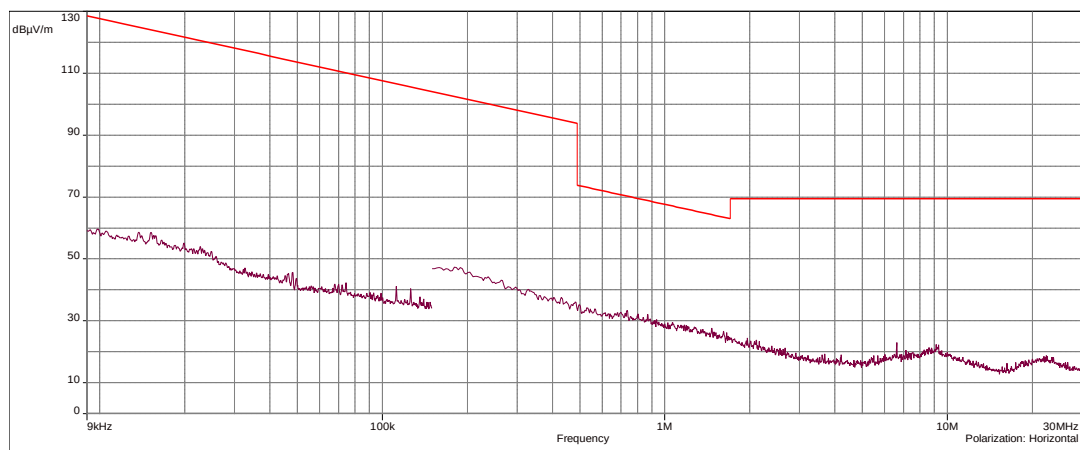
Antenna
Position -
Coaxial



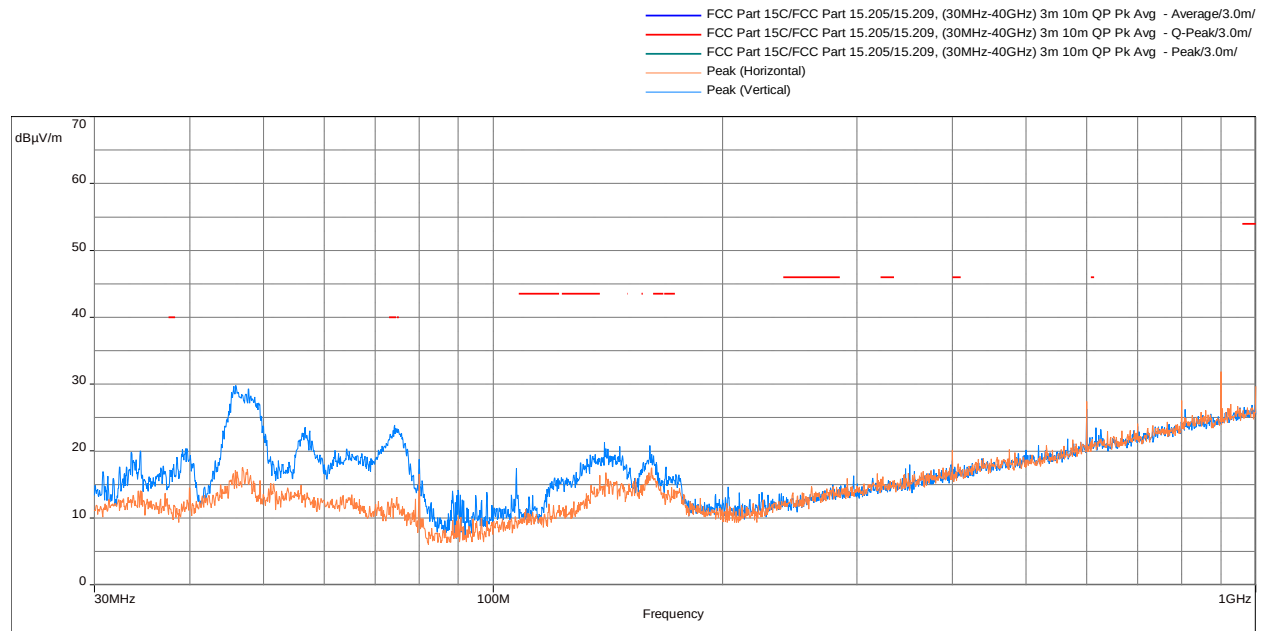
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

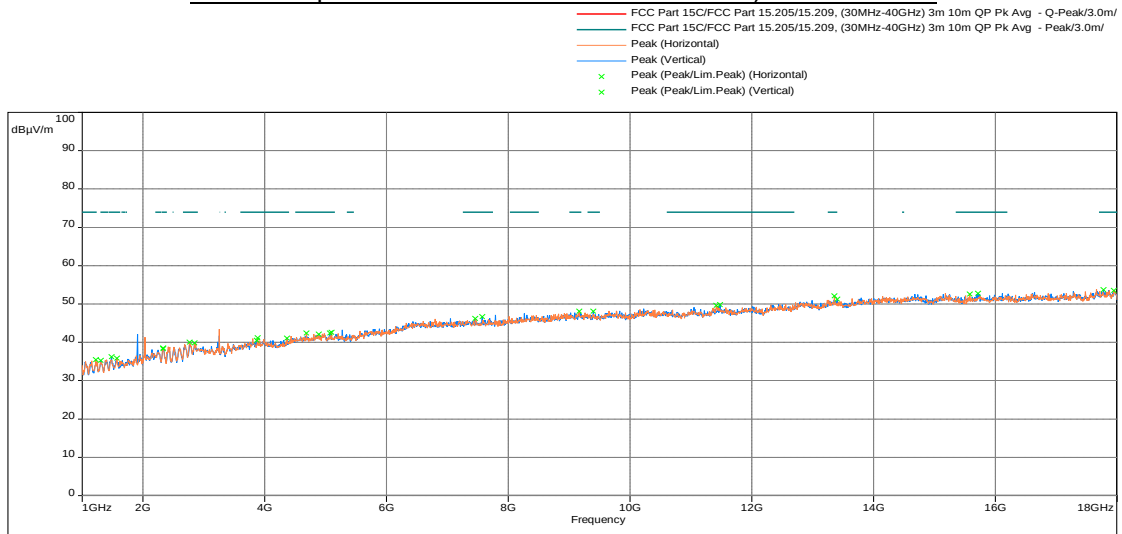


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

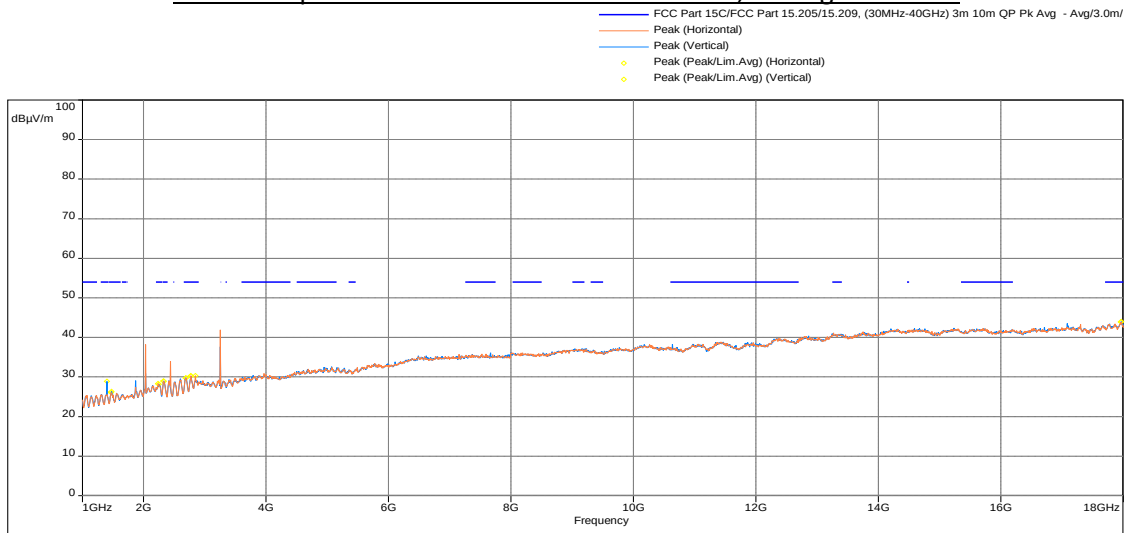


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
74.232	23.86	40.00	-16.14	255.90	Vertical	-16.92
610.060	22.09	46.00	-23.91	247.89	Vertical	-6.35
134.081	19.47	43.50	-24.03	206.31	Vertical	-14.95
610.674	21.76	46.00	-24.24	44.97	Horizontal	-6.28
1000.000	29.65	54.00	-24.35	41.46	Horizontal	0.54
608.476	21.45	46.00	-24.55	320.01	Horizontal	-6.41

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



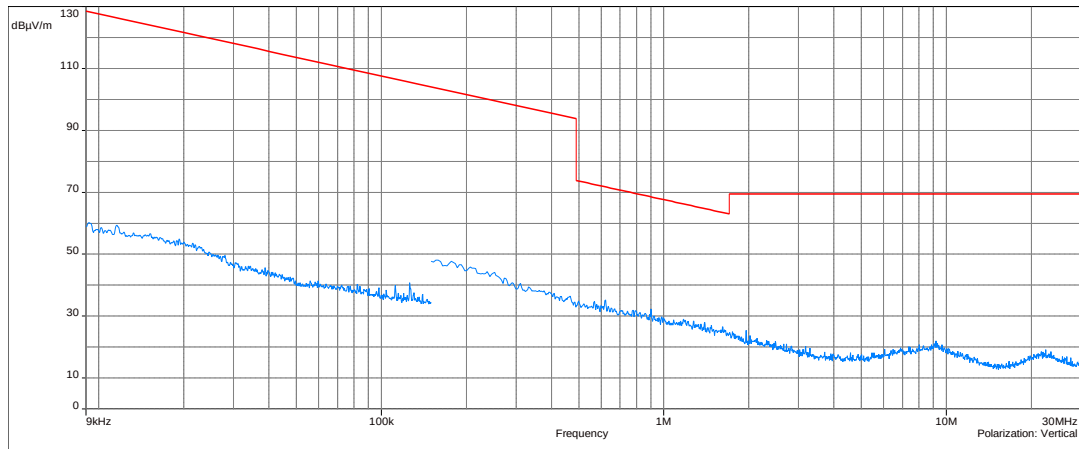
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17773.333	Peak	53.68	74.00	-20.32	130.66	Vertical	5.46
17949.000	Peak	53.54	74.00	-20.46	265.15	Horizontal	5.59
15715.200	Peak	52.74	74.00	-21.26	39.74	Vertical	5.49
17968.833	Average	44.06	54.00	-9.94	226.21	Vertical	5.61
17959.767	Average	43.91	54.00	-10.09	271.70	Horizontal	5.60
2768.000	Average	30.36	54.00	-23.64	87.90	Horizontal	-2.91

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

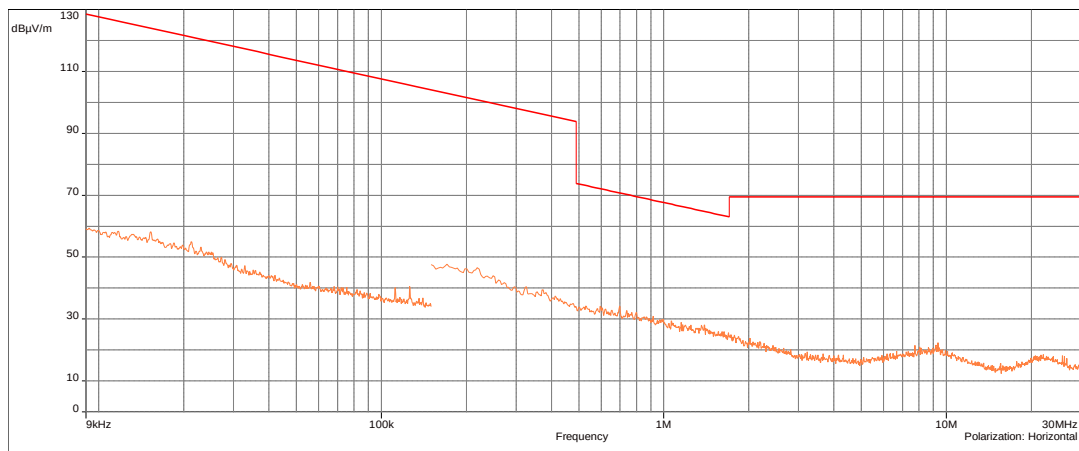
**Test Results: 15.209 Radiated Spurious Emissions, 8-DPSK Tx at 2440 MHz
Battery Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

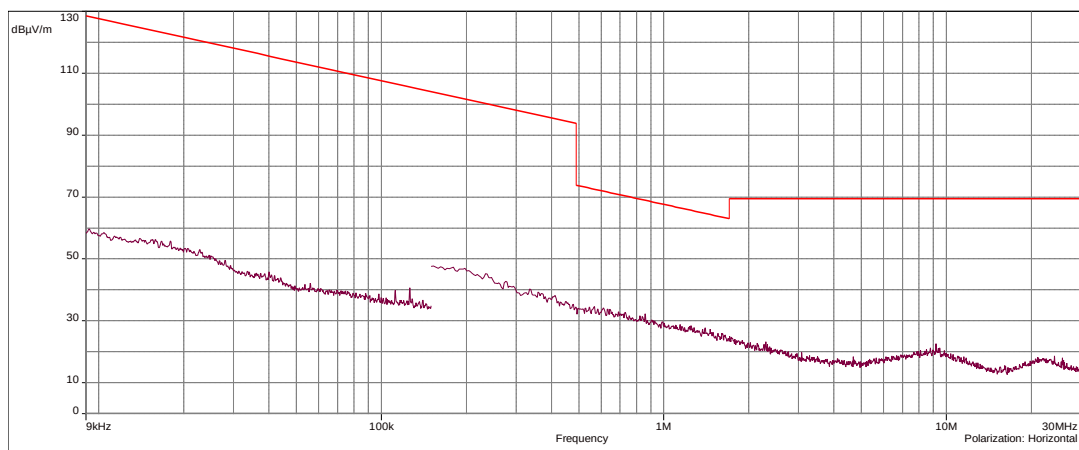
Antenna
Position -
Coaxial



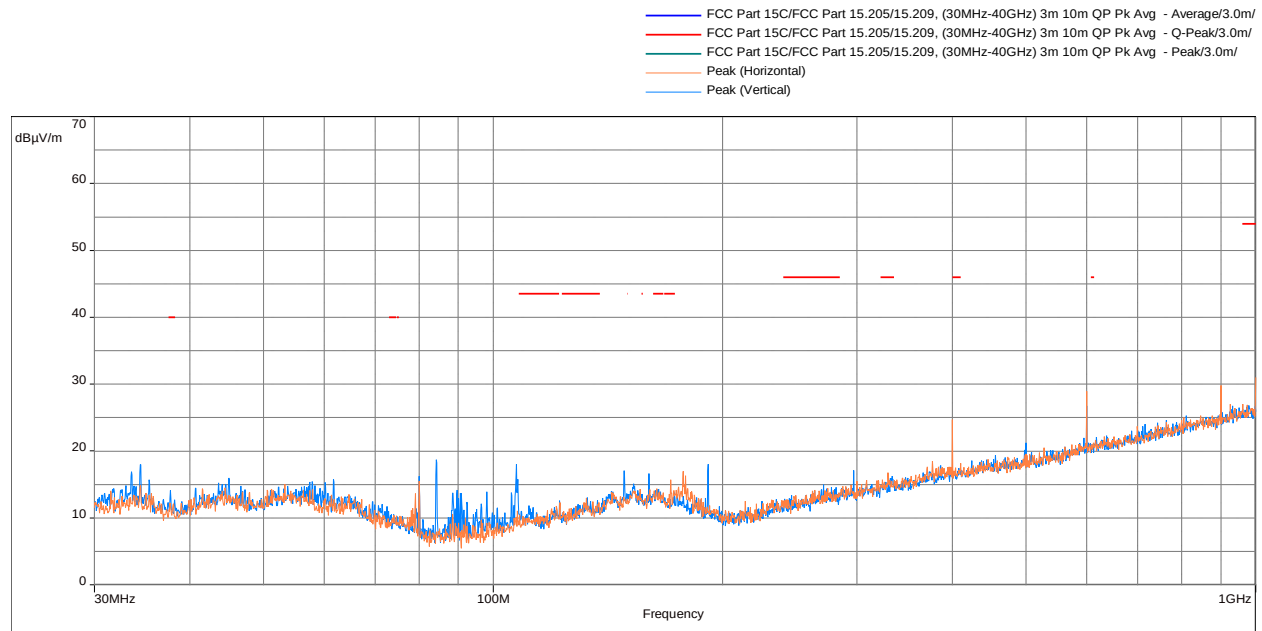
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

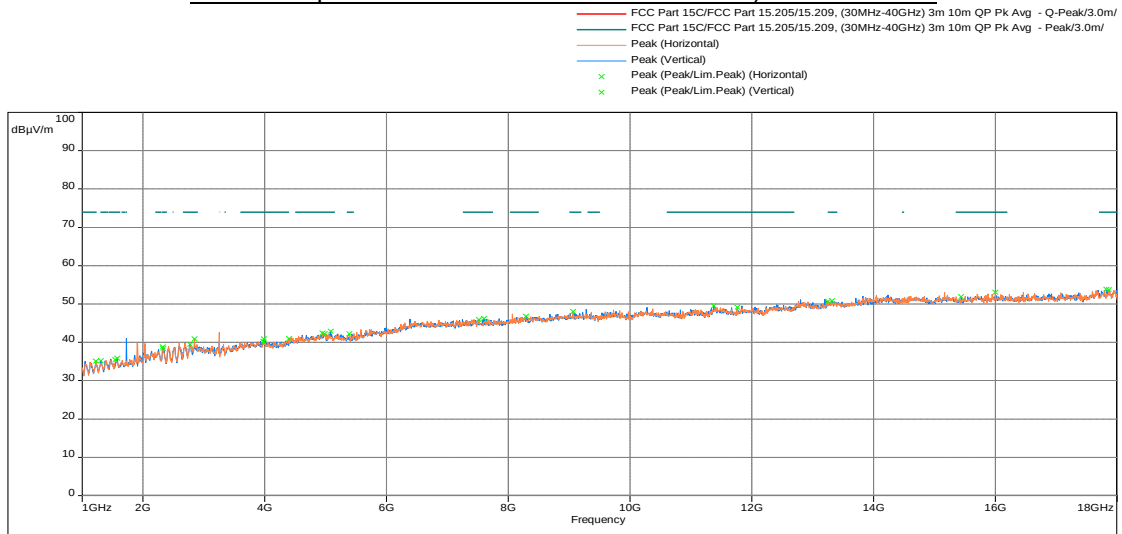


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

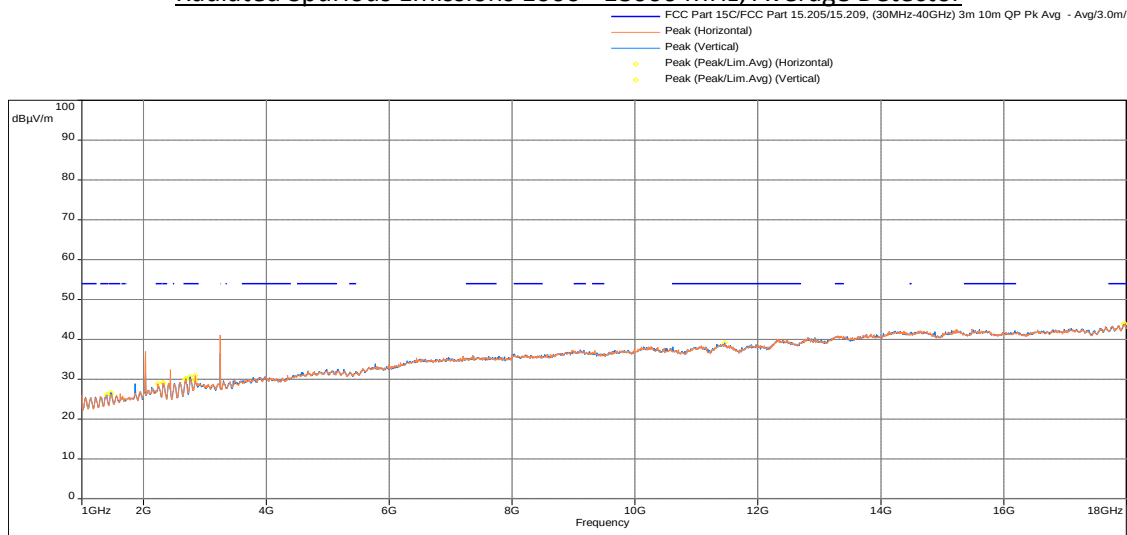


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	24.66	46.00	-21.34	76.02	Horizontal	-10.44
1000.000	31.04	54.00	-22.96	347.06	Horizontal	0.54
609.349	20.98	46.00	-25.02	347.06	Horizontal	-6.35
37.728	14.10	40.00	-25.90	115.14	Vertical	-14.10
961.847	26.99	54.00	-27.01	331.53	Horizontal	-0.13
998.513	26.90	54.00	-27.10	355.22	Horizontal	0.53

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



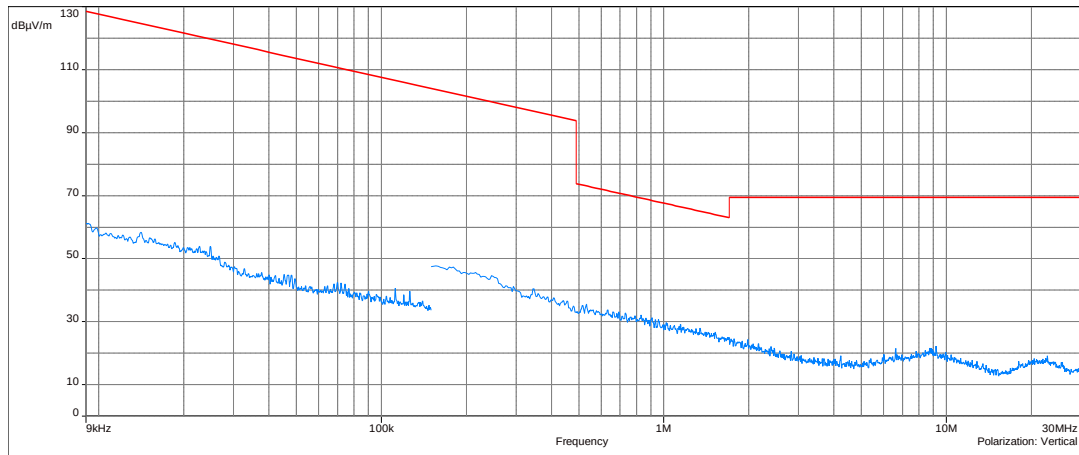
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17820.933	Peak	53.80	74.00	-20.20	304.75	Vertical	5.50
17863.433	Peak	53.75	74.00	-20.25	102.39	Horizontal	5.53
15999.667	Peak	53.05	74.00	-20.95	209.26	Horizontal	5.73
17960.900	Average	43.88	54.00	-10.12	0.00	Horizontal	5.60
17971.667	Average	43.86	54.00	-10.14	18.74	Vertical	5.61
11460.100	Average	39.15	54.00	-14.85	87.81	Vertical	4.71

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

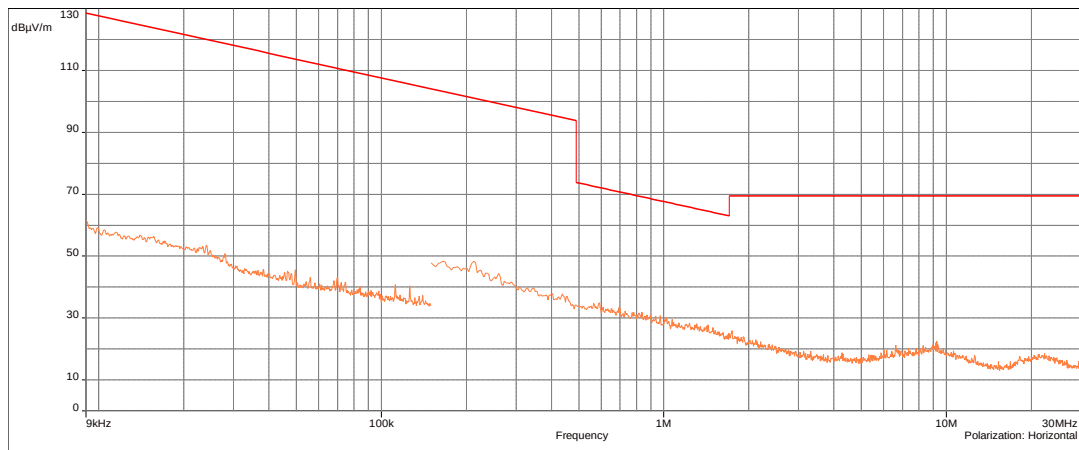
**Test Results: 15.209 Radiated Spurious Emissions, 8-DPSK Tx at 2480 MHz
Charging Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

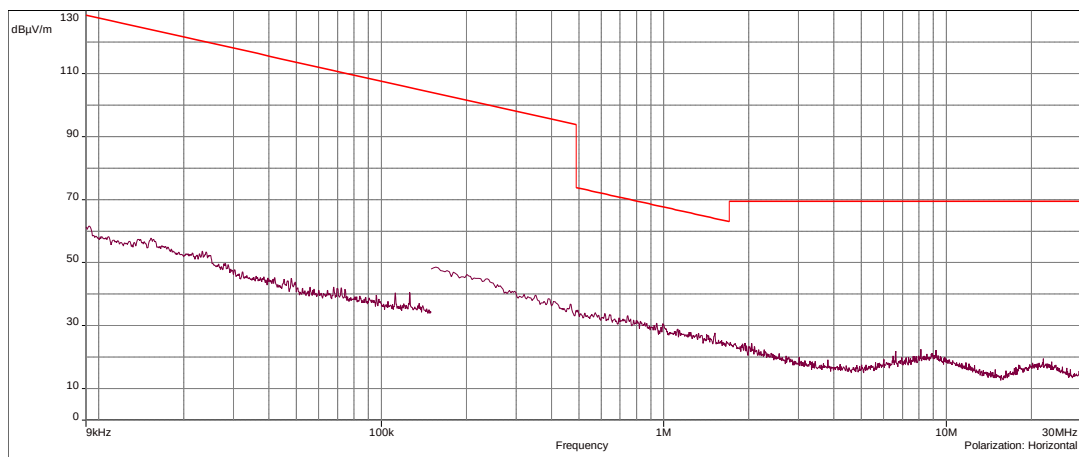
Antenna
Position -
Coaxial



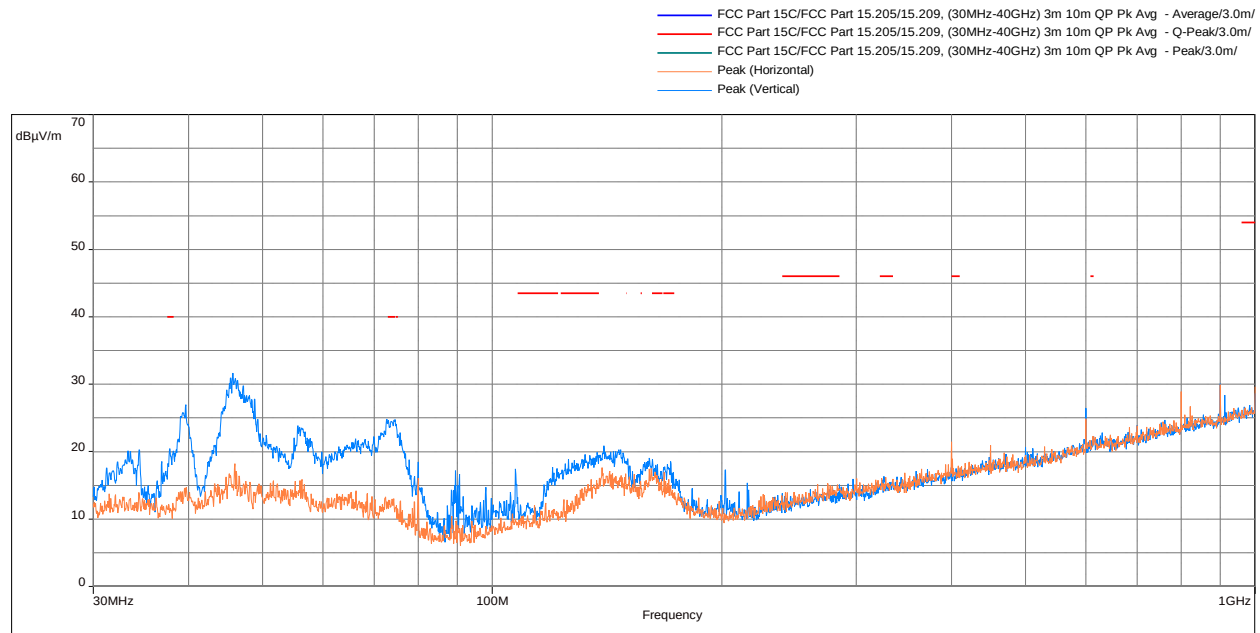
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

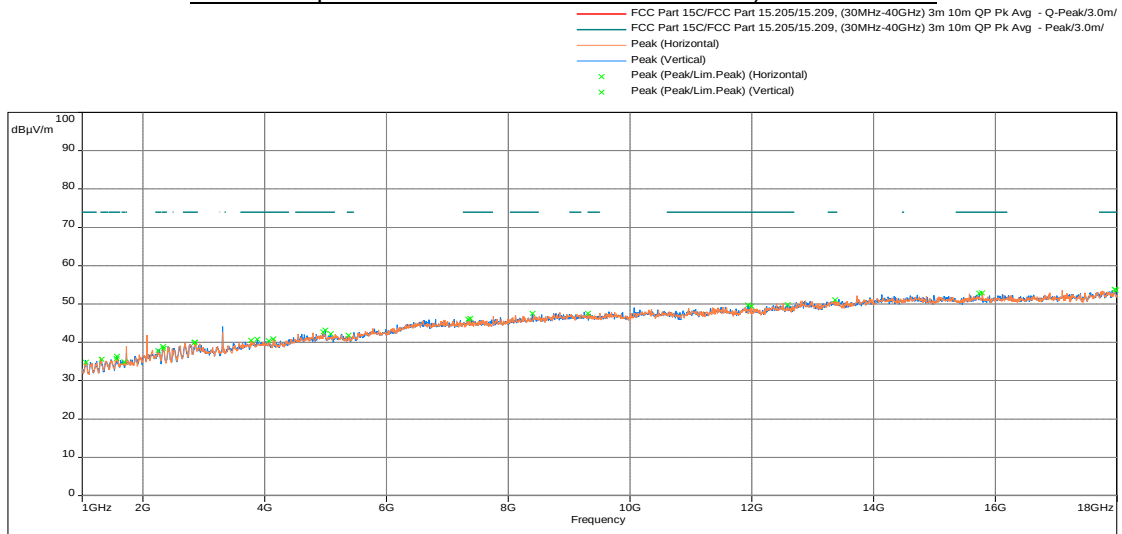


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

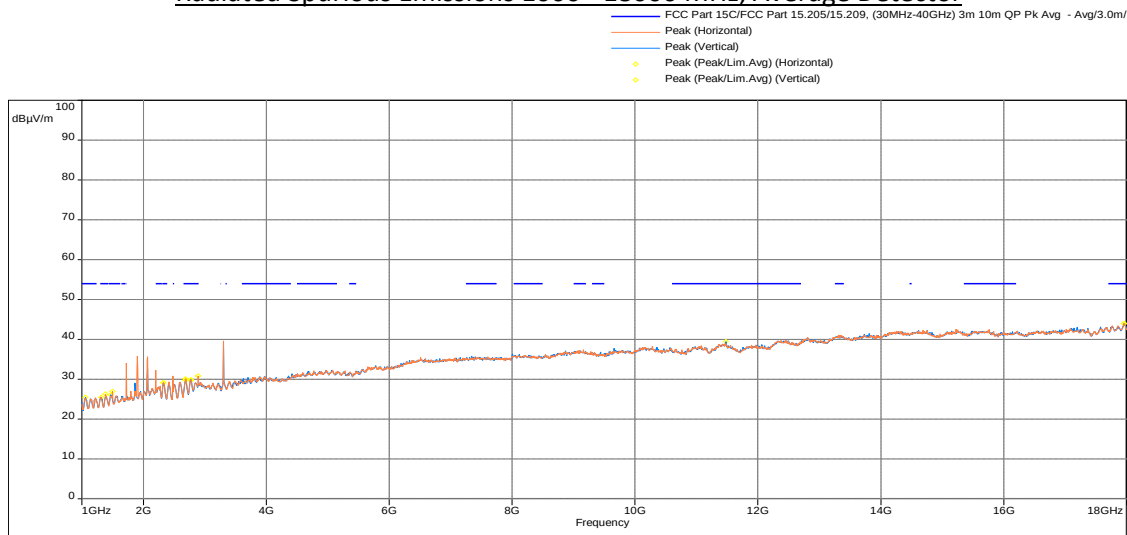


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
612.873	22.33	46.00	-23.67	262.41	Horizontal	-6.16
132.367	19.60	43.50	-23.90	206.31	Vertical	-15.13
611.159	21.64	46.00	-24.36	169.23	Vertical	-6.25
1000.000	29.60	54.00	-24.40	74.04	Horizontal	0.54
136.344	19.06	43.50	-24.44	180.75	Vertical	-14.62
399.990	21.45	46.00	-24.55	33.45	Horizontal	-10.44

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



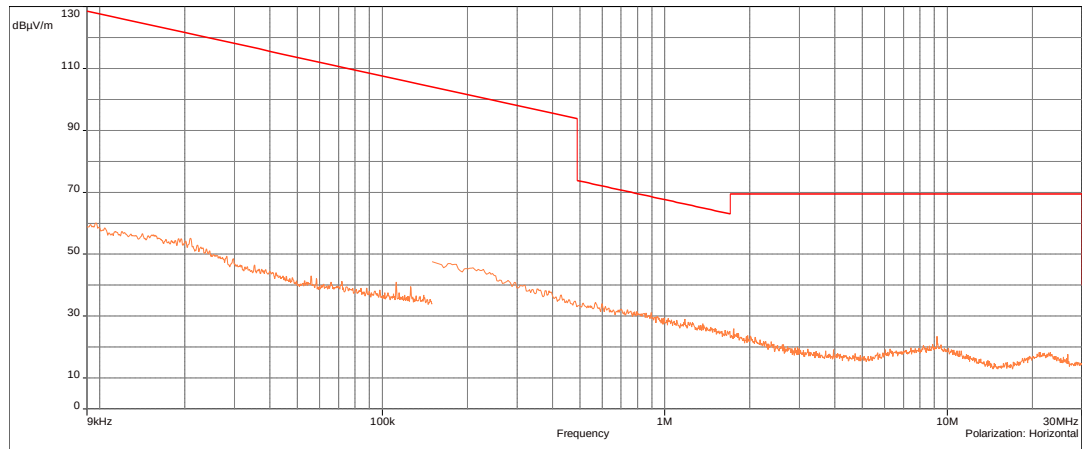
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17960.900	Peak	53.78	74.00	-20.22	193.33	Horizontal	5.60
17977.900	Peak	53.63	74.00	-20.37	255.61	Vertical	5.62
15785.467	Peak	52.90	74.00	-21.10	150.36	Horizontal	5.54
17951.833	Average	43.98	54.00	-10.02	359.99	Vertical	5.59
17957.500	Average	43.96	54.00	-10.04	110.21	Horizontal	5.60
11479.933	Average	39.47	54.00	-14.53	41.04	Vertical	4.69

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

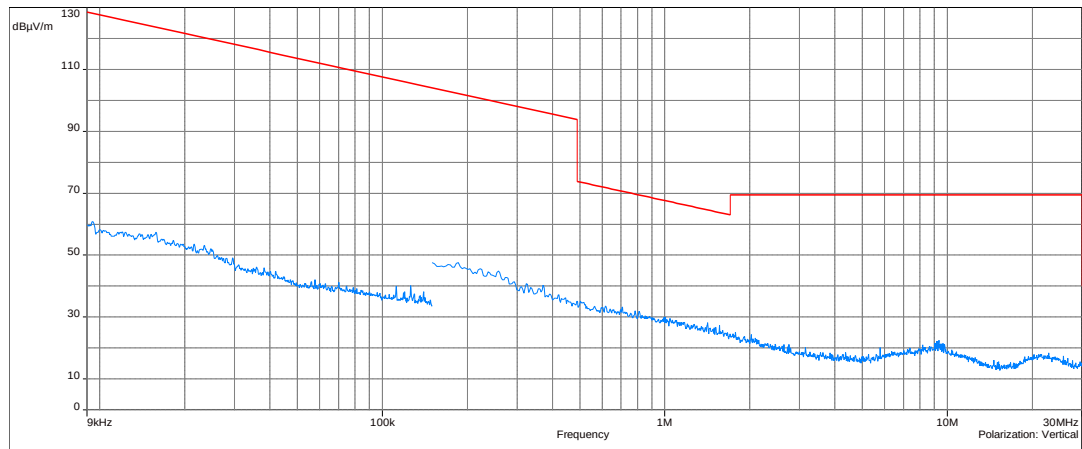
**Test Results: 15.209 Radiated Spurious Emissions, 8-DPSK Tx at 2480 MHz
Battery Mode**

Radiated Spurious Emissions 9 kHz to 30 MHz, Peak Scan vs QP Limit

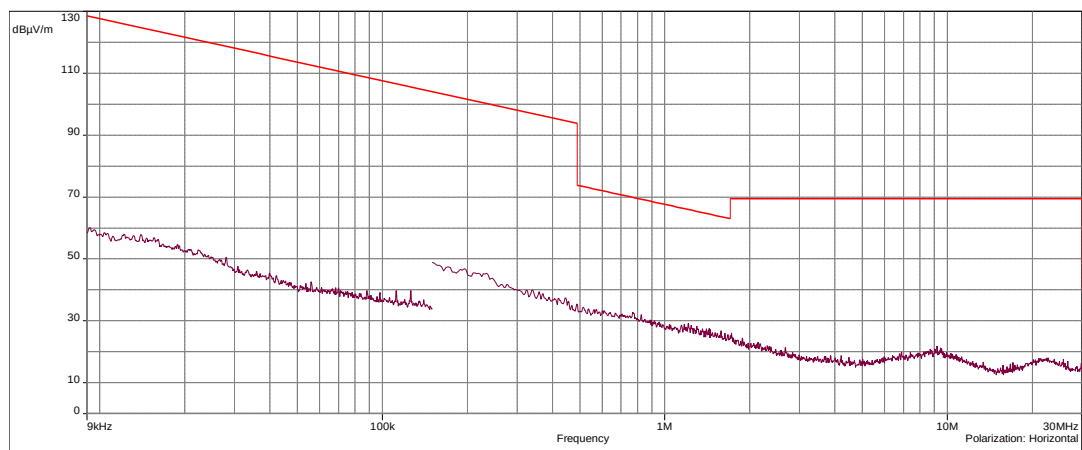
Antenna
Position -
Coaxial



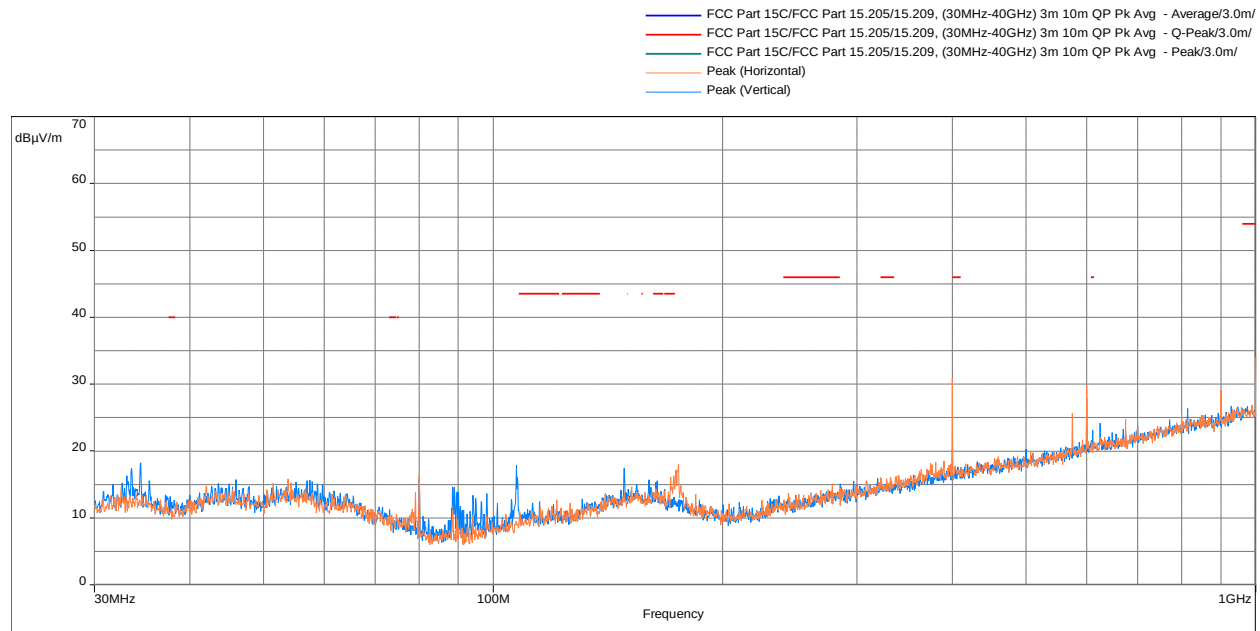
Antenna
Position -
Coplanar



Antenna
Position -
Horizontal

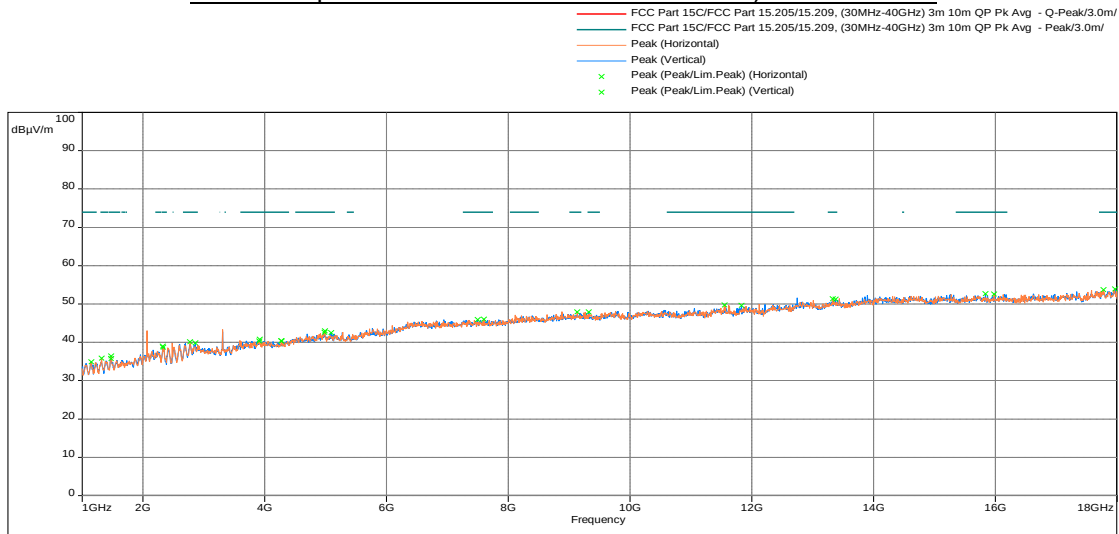


Out-of-Band Radiated Spurious Emissions - 30 MHz to 1000 MHz

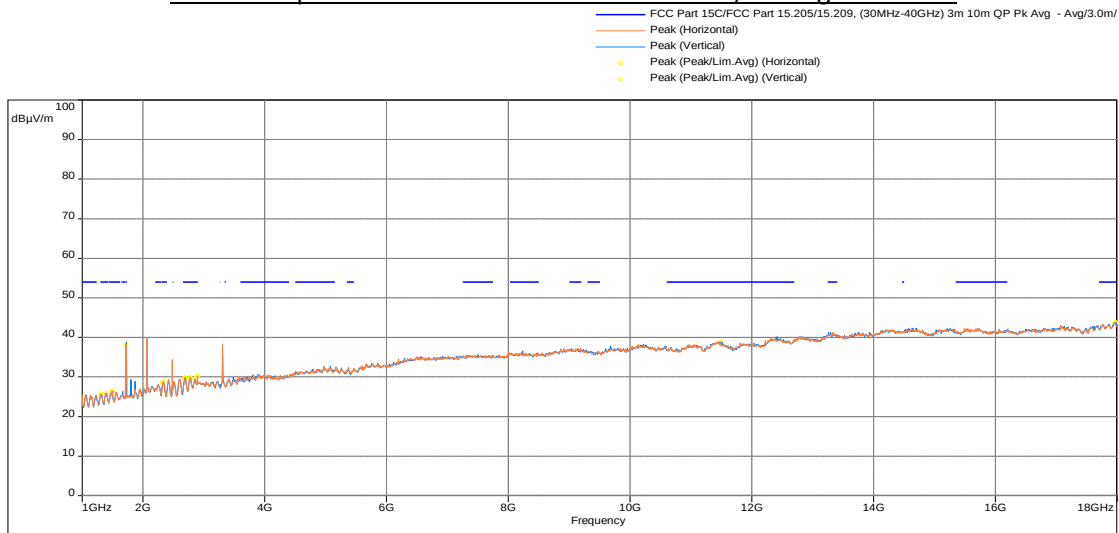


Freq. (MHz)	QPeak@ 3m (dBμV/m)	Lim. QPeak @3m (dBμV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	30.86	46.00	-15.14	31.47	Horizontal	-10.44
1000.000	34.02	54.00	-19.98	88.08	Horizontal	0.54
610.965	23.10	46.00	-22.90	59.52	Vertical	-6.25
608.961	21.54	46.00	-24.46	115.14	Vertical	-6.36
609.252	21.32	46.00	-24.68	96.09	Horizontal	-6.35
608.573	21.06	46.00	-24.94	266.91	Horizontal	-6.40

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBμV/m)	PK/AV Limit dB(μV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17964.867	Peak	53.88	74.00	-20.12	216.42	Vertical	5.61
17776.733	Peak	53.75	74.00	-20.25	54.86	Horizontal	5.46
15834.767	Peak	52.70	74.00	-21.30	0.00	Vertical	5.63
17980.167	Average	43.81	54.00	-10.19	318.47	Vertical	5.62
17962.600	Average	43.70	54.00	-10.30	179.76	Horizontal	5.60
11496.367	Average	38.97	54.00	-15.03	295.28	Horizontal	4.67

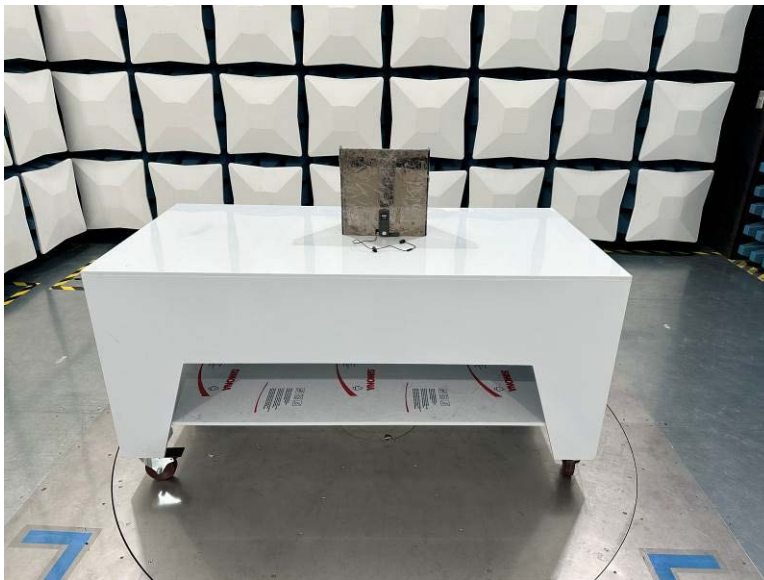
Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

4.2.5 Test Setup Configuration

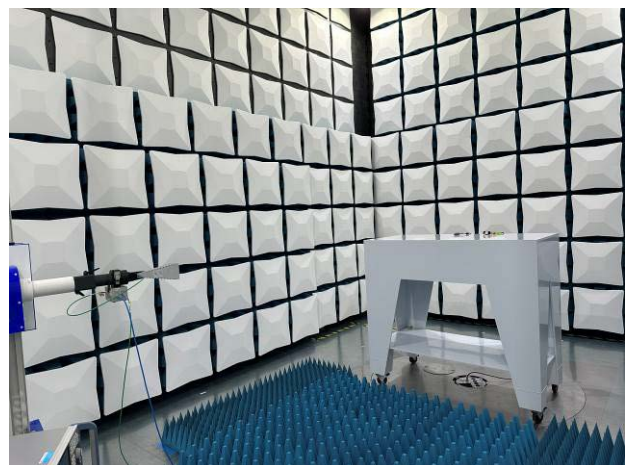
The following photographs show the testing configurations used.



Charging Mode



Battery Mode



5.0 List of Test Equipment

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

Equipment	Manufacturer	Model/Type	Asset #	Cal Int	Cal Due
EMI Receiver	Rohde and Schwarz	ESW44	ITS 02016	12	05/30/25
Loop Antenna	ETS-Lindgren	6512	ITS 01573	12	12/02/25
1-18GHz Horn Antenna	RF Spin	DRH18-E	ITS 02114	12	10/02/25
18-40GHz Horn Antenna	RF Spin	DRH0844	ITS 02115	12	10/03/25
Trilog Antenna	Schwarzbeck	VULB 9168	ITS 02097	12	08/21/25
9kHz-1GHz Preamplifier	Sonoma Instrument	310N	ITS 02129	12	10/02/25
1-18GHz Preamp	EMC Instruments	EMC118A45SE	ITS 02113	12	10/02/25
18-40GHz Preamp	EMC Instruments	EMC184045SE	ITS 02112	12	10/02/25
RF Cable	TRU Corporation	TRU CORE 300	ITS 01342	12	09/13/25
RF Cable	TRU Corporation	TRU CORE 300	ITS 01343	12	07/25/25
RF Cable	TRU Corporation	TRU CORE 300	ITS 01344	12	09/13/25
RF Cable	Absolute EMC	50915-236	ITS 02109	12	08/19/25
RF Cable	Absolute EMC	50586-39	ITS 02098	12	08/19/25
RF Cable	Absolute EMC	50586-197	ITS 02199	12	10/02/25
Band Reject Filter	MICRO-TRONICS	BRM50716	ITS 02062	12	02/18/26

Software used for emission compliance testing utilized the following:

Name	Manufacturer	Version	Template/Profile
BAT-EMC	Nexio	3.20.0.23	Vocera Radio BT Classic.bpp
RS Commander	Rohde Schwarz	1.6.4	Not Applicable (Screen grabber)

6.0 Document History

Revision/ Job Number	Writer Initials	Reviewers Initials	Date	Change
1.0 / G105964951	GC	AS	April 16, 2025	Original Document

END OF REPORT