

July 25, 2025

Bloodhound Tracking Device
Marco Maldonado
309 Henrietta St
Webster, TX 77598

Dear Marco Maldonado,

Enclosed is the Electromagnetic Compatibility for the Bloodhound Tracking Device, Communication Unit, tested to the requirements of:

- FCC Part 22H, 24E, 27 and 90

Thank you for using the services of Eurofins E&E Testing NA, LLC. Please contact me if you have any questions regarding these results or if Eurofins E&E can be of further service to you.

Sincerely,



Documentation Department
Eurofins E&E Testing NA, LLC.

Reference: EMCS135492-FCC Part 22H, 24E, 27 and 90 Rev. 1



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Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	July 16, 2025	Initial Issue.
1	July 25, 2025	EUT Configuration Form Updated

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1.0 Testing Summary

The Bloodhound Tracking Device, Communication Unit was found to be compliant to the following specification(s).

- FCC Part 22H, 24E, 27 & 90 and KDB 996369 D04 V.02 Module Integration Guide



Chin Ming Lui
EMC Laboratory Engineer

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements.



David Trevayne-Smith
Commercial Director-Wireless, California

2.0 Overview

Eurofins E&E Testing NA, LLC. was contracted by Bloodhound Tracking Device to perform testing on the Communication Unit, under purchase order number 0018.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of Bloodhound Tracking Device, Communication Unit.

The results obtained relate only to the item(s) tested.

Model(s) Tested:	Communication Unit
Equipment Emissions Class:	B

2.1 Test Site

All testing was performed at Eurofins E&E Testing NA, LLC., 3162 Belick St. Santa Clara, CA 95054. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology. Eurofins E&E Testing NA, LLC. has been accredited by the American Association for Laboratory Accreditation (A2LA) (Certificate #: 0591.02) in accordance with ISO/IEC 17025:2017.

2.2 Equipment Overview and Test Configuration

Name of EUT/Model:	Communication Unit
Additional Models Covered, but not tested:	N/A
Description of EUT and Intended Use:	Container Asset Tracking
Mode(s) of Operation:	LTE CAT M1 co-transmission with LoRa
Other Included Radio(s)	Iridium
Configuration(s):	Test Mode
EUT Power Requirement	
Voltage:	3.2 – 4.2 V
AC or DC	DC
Voltage Frequency:	N/A
Number of Phases:	N/A
Amperage:	N/A
Uses an external AC/DC Adapter:	No
Battery Return Configuration (DC-C, DC-I, or either):	--
Physical Description	
EUT Arrangement:	Mounted
System with Multiple Chassis:	N/A
Size (HxWxD) inches:	--
Weight (lbs):	--
Emissions Class Declaration:	B
Other Info:	
EUT Software (internal to EUT):	Custom firmware by Bloodhound Tracking Device
Support Software (used by support PC to exercise EUT):	Tera Term

Note: EUT information was provided by Bloodhound Tracking Device

Antenna Information

Radio	Antenna Type	Manufacturer	Part No	Frequency Range	Peak Gain
LoRa	--	--	--	--	-1.7 dBi

Note: Antenna information was provided by Bloodhound Tracking Device. Eurofins E&E Testing NA, LLC did not test or verify the accuracy of the antenna information.

2.3 Modifications to the EUT

No modifications were made to the EUT.

2.4 Modifications to the Standard

No modifications were made to the Test Standard.

2.5 Disposition of EUT

The test sample including all support equipment (if any), submitted to the Electromagnetic Compatibility Lab for testing was returned to Bloodhound Tracking Device upon completion of testing.

3.0 Electromagnetic Compatibility Criteria for Intentional Radiators

3.1 Radiated Spurious Emissions

Test Method: ANSI C63.26:2015; FCC KDB 996369 D04 V.02 Module Integration Guide

Test Requirement(s): The following standards specified below are covered in the scope of this section of the test report:

- FCC Part 22H, 24E & 27 and KDB 996369 D04 V.02 Module Integration Guide

22.917 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

24.238 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

27.53(c)(1) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB.

27.53(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

27.53(h)(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log(P)$ dB.

FCC §90.210 – Emission mask limits for applicable Part 90 bands.

Sample Calculation for Distance Correction factor (DCF) measurement:

$$F_d = 20 \cdot \log_{10} (D_m/D_s)$$

where:

- F_d = Distance Factor in dB
- D_m = Measurement Distance in meters
- D_s = Specification Distance in meters

Sample formula for calculating the Corrected Data for the Radiated Emissions Measurements:

Frequency (MHz)	Antenna Polarity	EUT Azimuth (Degrees)	Antenna Height (cm)	Uncorrected Amplitude (dB μ V)	ACF (dB/m) (+)	Pre Amp Gain (dB)(-)	CBL (dB) (+)	DCF (dB) (+)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
249.99	V	359.9	240.7	55.46	11.4	28.335	0	0	38.505	47	-8.495

$$\begin{aligned} \text{Corrected Amplitude (dB}\mu\text{V/m)} &= \text{Uncorrected Amplitude (dB}\mu\text{V)} + \text{ACF (dB/m)} - \text{Preamp Gain (dB)} + \text{CBL (dB)} + \text{DCF (dB)} \\ &= 55.46 + 11.4 - 28.335 + 0 + 0 = 38.505 \end{aligned}$$

Test Procedure:

The method of testing, test conditions, and test procedures of ANSI C63.26:2015 were used in addition to FCC KDB 996369 D04 Module Integration Guide. Any measured frequency that exhibits a margin of compliance that is less than 3 dB below the specification limit is marked. Eurofins E&E recommends that every emission measured has at least a 3 dB margin to allow for deviations in the emission characteristics that may occur during the production process.

For emissions between 30 MHz and 1000 MHz, the EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber a biconilog antenna was located 10m from the EUT on an adjustable mast. A pre-scan was first performed to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT was rotated, and the antenna height was varied between 1 m and 4 m to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. Unless otherwise specified, measurements were made using a quasi-peak detector with a 120 kHz resolution bandwidth.

For emissions between 1 GHz and 18 GHz, a double ridged guide horn was located 3 m from the EUT on an adjustable mast. The EUT was placed on a non-metallic table 150 cm above the ground plane inside a semi-anechoic chamber. A pre-scan was performed and used to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT was rotated, and the antenna height was varied depending on the geometry of the EUT. To ensure maximized emissions, the horn antenna was positioned both vertically and horizontally. Unless otherwise specified, measurements were made using a peak and average detector with a 1 MHz resolution bandwidth.

For emission between 18 GHz and 20 GHz, a high frequency standard gain horn antenna was located 3 m from the EUT on an adjustable mast. The EUT was placed on a non-metallic table 150 cm above the ground plane inside a semi-anechoic chamber. A pre-scan was performed and used to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT was rotated, and the antenna height was varied depending on the geometry of the EUT. To ensure maximized emissions, the horn antenna was positioned both vertically and horizontally. Unless otherwise specified, measurements were made using a peak and average detector with a 1 MHz resolution bandwidth.

Due to the size of the EUT, pre-liminary measurements were performed with the EUT rotated on different axis (X, Y, Z). The worst-case data is presented in this report.

Test Software Used:

Nexio BAT-EMC MSSQL Version: V2023.0.5.0 was used to perform this test.

Test Results:

Test Standard:	FCC Part 22H, 24E and 27 (Per FCC KDB 996369 D04 Module Integration Guide v02; ANSI C63.26:2015)
Test Name	Radiated Spurious Emissions
Test Dates:	06/25/2025 – 06/27/2025
Laboratory	Eurofins E&E Testing NA, LLC.
Test Engineer:	Chin Ming Lui
Test Results:	Compliant

Test Data (KDB 996369 D04 – LTE CAT-M1 Co-Transmission with LoRa)

FCC Part 22

Frequency (MHz)	Source	RMS (dBm)	RMS Limit (dBm)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
993.012	RMS (PASS)	-33.763	-13	-20.763	1	49	Horizontal	100000	0.1	18.835
993.139	RMS (PASS)	-40.786	-13	-27.786	2.95	51	Vertical	100000	0.1	18.837

Table 1. Radiated Spurious Emissions, LTE CAT-M1 Band 5 Mid Channel 836.5 MHz Co-Transmission with LoRa High Channel 914.9 MHz (30 MHz – 1 GHz) Test Results

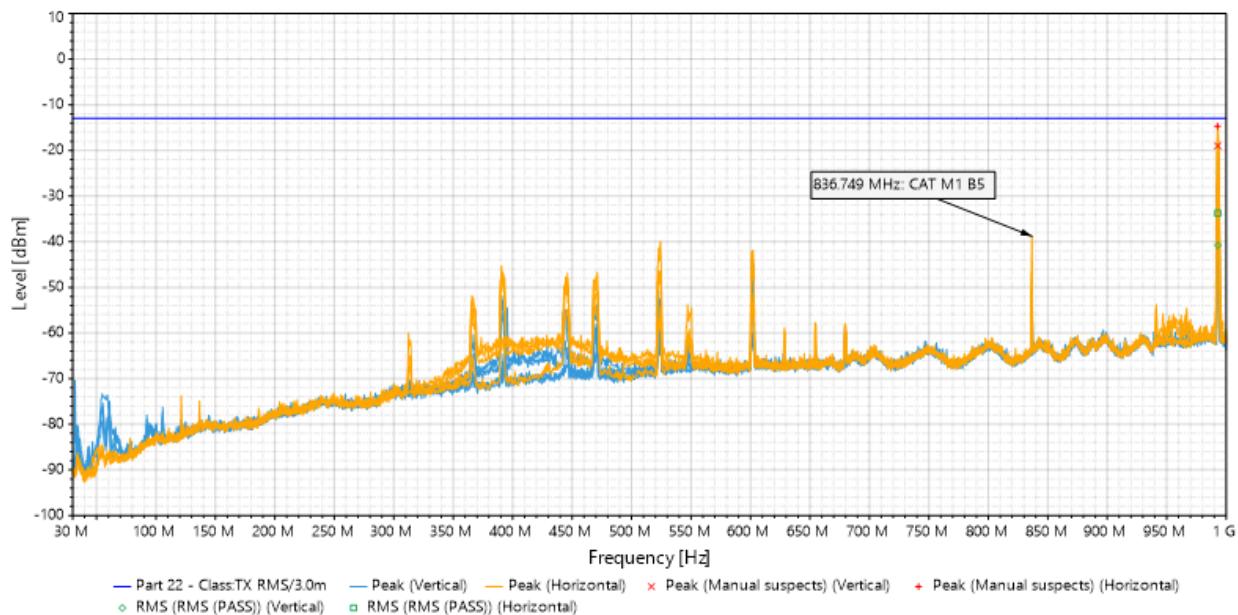


Figure 1. Radiated Spurious Emissions, LTE CAT-M1 Band 5 Mid Channel 836.5 MHz Co-Transmission with LoRa High Channel 914.9 MHz (30 MHz – 1 GHz) Plot

Frequency (MHz)	Source	RMS (dBm)	RMS Limit (dBm)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
1673.1	RMS (PASS)	-47.287	-13	-34.287	1.126	71	Vertical	1000000	0.1	14.032
1673.2	RMS (PASS)	-43.885	-13	-30.885	1.91	38	Horizontal	1000000	0.1	14.032
1751.5	RMS (PASS)	-45.297	-13	-32.297	1.13	47	Horizontal	1000000	0.1	14.402
2509.9	RMS (PASS)	-52.45	-13	-39.45	1.033	313	Horizontal	1000000	0.1	17.701

Table 2. Radiated Spurious Emissions, LTE CAT-M1 Band 5 Mid Channel 836.5 MHz Co-Transmission with LoRa High Channel 914.9 MHz (1 – 10 GHz) Test Results

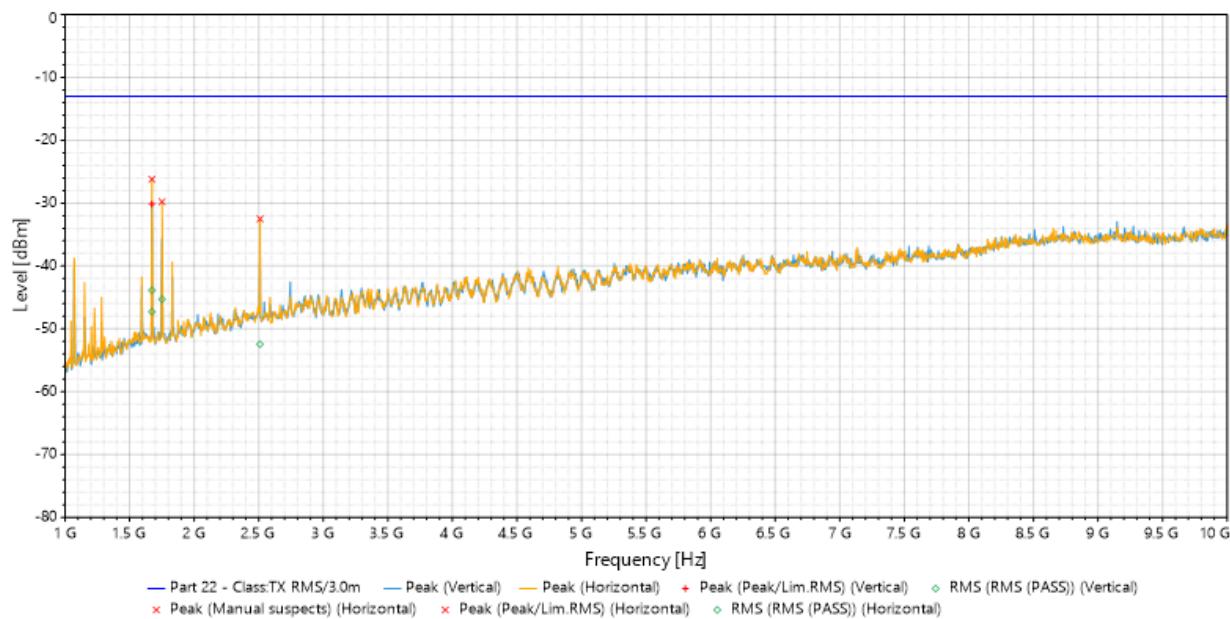
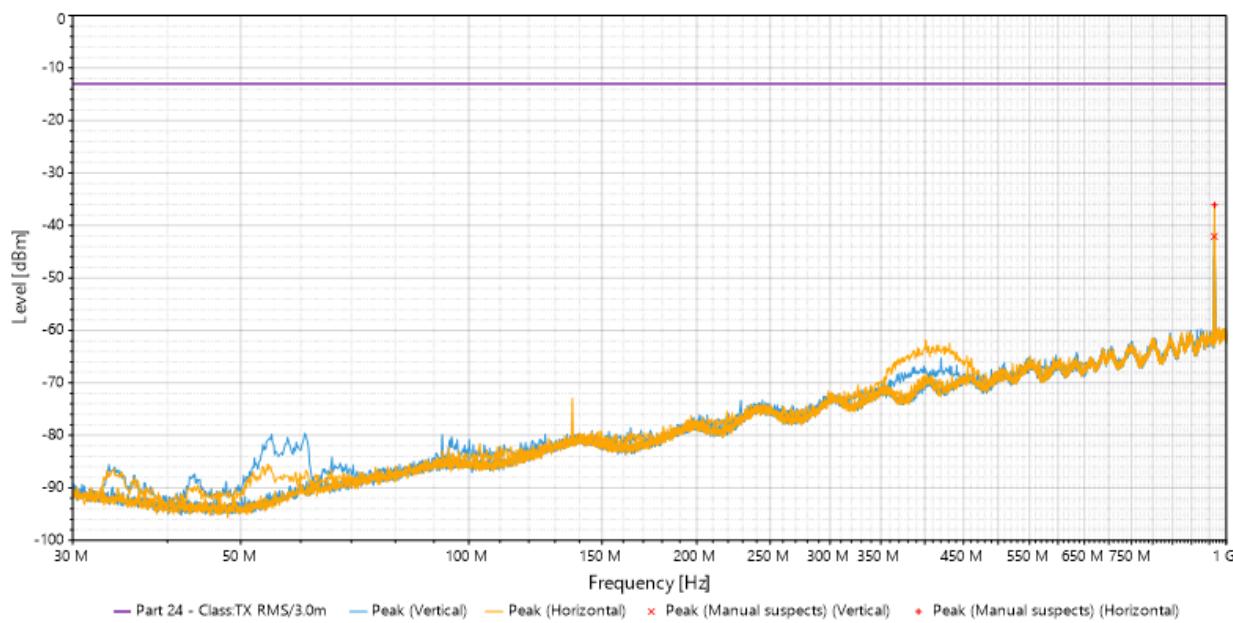


Figure 2. Radiated Spurious Emissions, LTE CAT-M1 Band 5 Mid Channel 836.5 MHz Co-Transmission with LoRa High Channel 914.9 MHz (1 – 10 GHz) Plot

FCC Part 24

Frequency (MHz)	Source	Peak (dBm)	Lim.RMS (dBm)	Height (m)	Azimuth (°)	Polarization	Correction (dB)
964.595	Manual suspects	-42.105	-13	2	274	Vertical	18.053
965.371	Manual suspects	-36.113	-13	1	232	Horizontal	18.083

Table 3. Radiated Spurious Emissions, LTE CAT-M1 Band 2 Mid Channel 1880 MHz Co-Transmission with LoRa High Channel 914.9 MHz Test Results

Figure 3. Radiated Spurious Emissions, LTE CAT-M1 Band 2 Mid Channel 1880 MHz Co-Transmission with LoRa High Channel 914.9 MHz Plot

Frequency (MHz)	Source	RMS (dBm)	RMS Limit (dBm)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
2795.1	RMS (PASS)	-39.05	-13	-26.05	1	96	Vertical	1000000	0.1	18.854
2795.2	RMS (PASS)	-40.744	-13	-27.744	1.131	5	Horizontal	1000000	0.1	18.855
2845.1	RMS (PASS)	-47.704	-13	-34.704	1	306	Horizontal	1000000	0.1	19.054
2845.4	RMS (PASS)	-45.613	-13	-32.613	1.571	260	Vertical	1000000	0.1	19.055

Table 4. Radiated Spurious Emissions, LTE CAT-M1 Band 2 Mid Channel 1880 MHz Co-Transmission with LoRa High Channel 914.9 MHz (1 – 18 GHz) Test Results

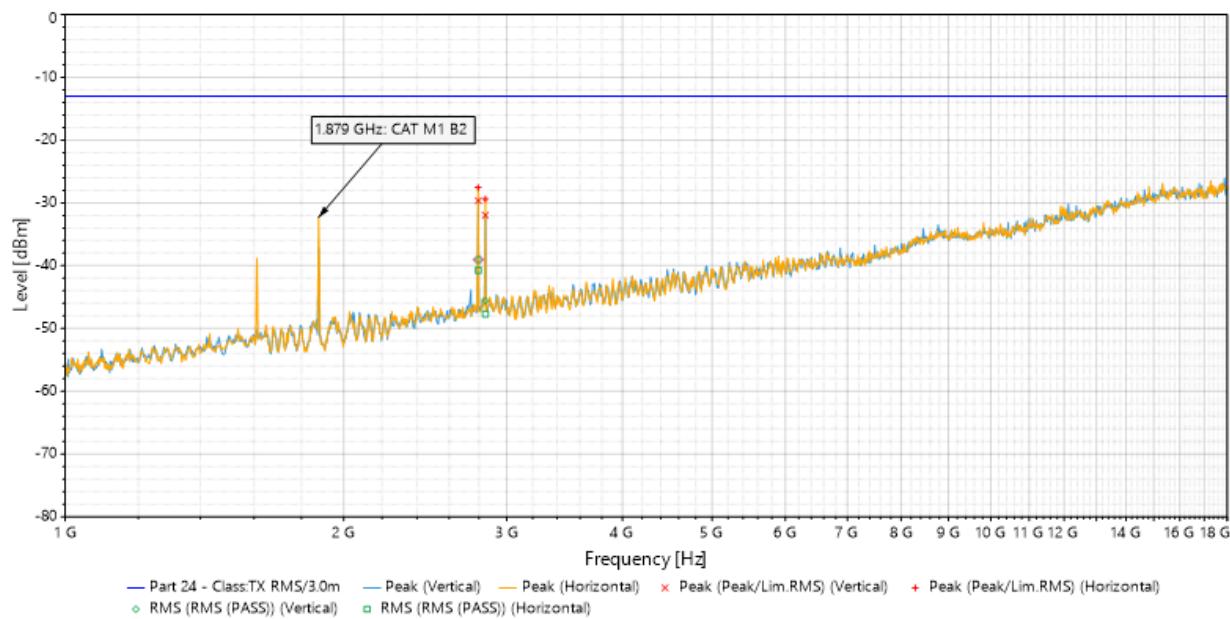


Figure 4. Radiated Spurious Emissions, LTE CAT-M1 Band 2 Mid Channel 1880 MHz Co-Transmission with LoRa High Channel 914.9 MHz (1 – 18 GHz) Plot

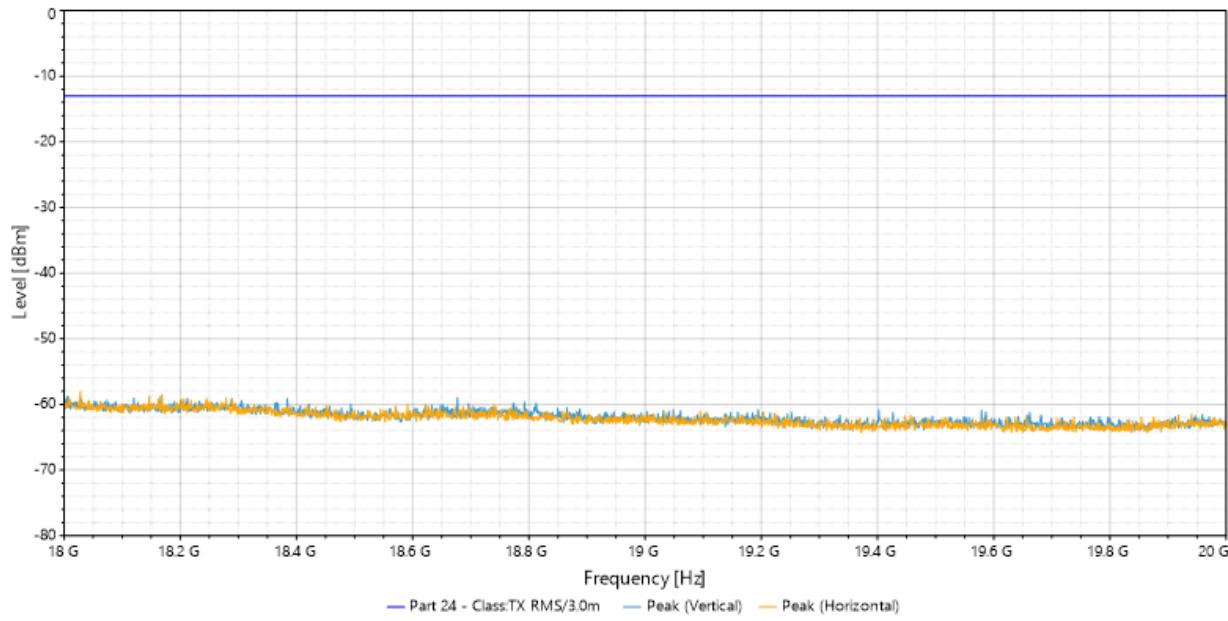


Figure 5. Radiated Spurious Emissions, LTE CAT-M1 Band 2 Mid Channel 1880 MHz Co-Transmission with LoRa High Channel 914.9 MHz (18 – 20 GHz) Plot

Note: Emissions verified to be noise floor

FCC Part 27

Frequency (MHz)	Source	Peak (dBm)	Lim.RMS (dBm)	Height (m)	Azimuth (°)	Polarization	Correction (dB)
896.889	Manual suspects	-60.014	-13	3	207	Horizontal	17.526
971.191	Manual suspects	-59.422	-13	1.001	279	Vertical	18.309

Table 5. Radiated Spurious Emissions, LTE CAT-M1 Band 4 Mid Channel 1732.5 MHz Co-Transmission with LoRa High Channel 914.9 MHz (30 MHz – 1 GHz) Test Results

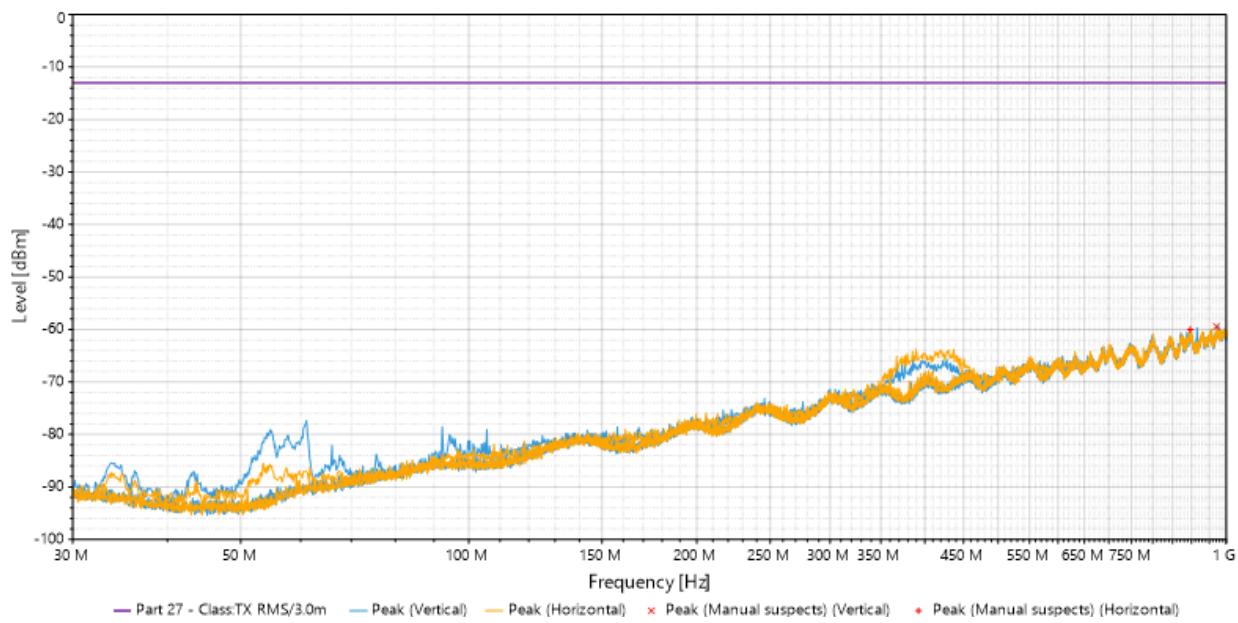


Figure 6. Radiated Spurious Emissions, LTE CAT-M1 Band 4 Mid Channel 1732.5 MHz Co-Transmission with LoRa High Channel 914.9 MHz (30 MHz – 1 GHz) Plot

Frequency (MHz)	Source	RMS (dBm)	RMS Limit (dBm)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
2550	RMS (PASS)	-49.356	-13	-36.356	1.468	55	Horizontal	1000000	0.1	17.719
2647.5	RMS (PASS)	-49.503	-13	-36.503	3.331	85	Horizontal	1000000	0.1	18.035
2647.6	RMS (PASS)	-46.423	-13	-33.423	1	311	Vertical	1000000	0.1	18.035
3465.2	RMS (PASS)	-43.111	-13	-30.111	1.465	169	Horizontal	1000000	0.1	20.947
3465.4	RMS (PASS)	-47.095	-13	-34.095	1.253	121	Vertical	1000000	0.1	20.947

Table 6. Radiated Spurious Emissions, LTE CAT-M1 Band 4 Mid Channel 1732.5 MHz Co-Transmission with LoRa High Channel 914.9 MHz (1 – 18 GHz) Test Results

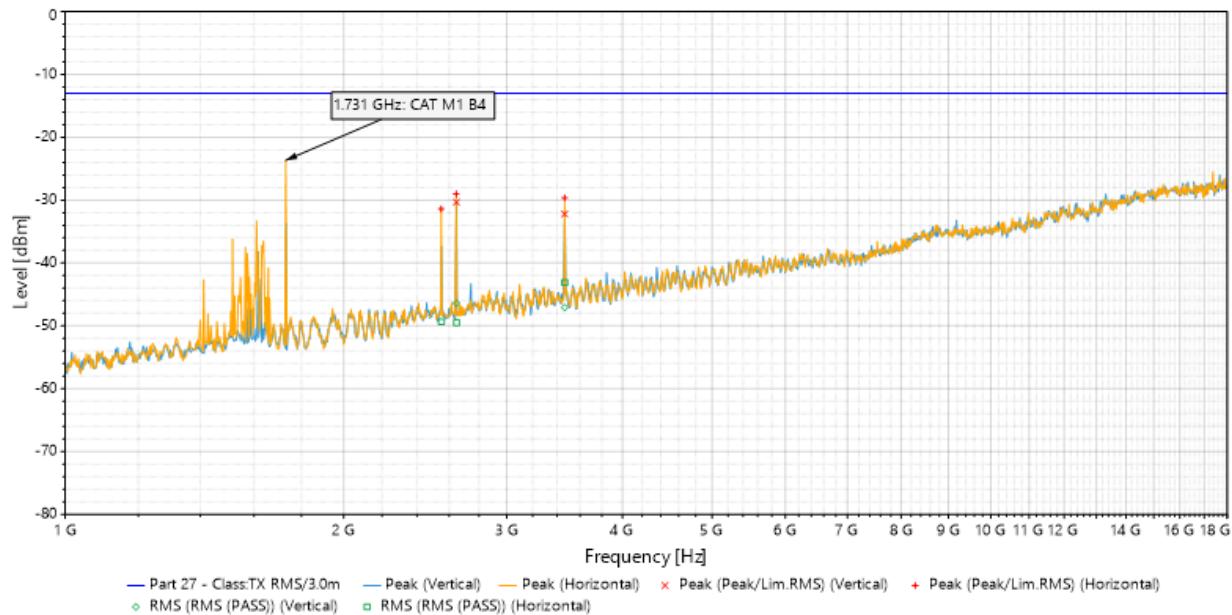


Figure 7. Radiated Spurious Emissions, LTE CAT-M1 Band 4 Mid Channel 1732.5 MHz Co-Transmission with LoRa High Channel 914.9 MHz (1 – 18 GHz) Plot

Frequency (MHz)	Source	RMS (dBm)	RMS Limit (dBm)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
413.957	RMS (PASS)	-43.048	-13	-30.048	3.518	29	Horizontal	100000	0.1	8.567
414.161	RMS (PASS)	-45.23	-13	-32.23	4	284	Vertical	100000	0.1	8.569
500.325	RMS (PASS)	-36.86	-13	-23.86	3.278	97	Vertical	100000	0.1	10.235
500.46	RMS (PASS)	-30.148	-13	-17.148	3.17	46	Horizontal	100000	0.1	10.237

Table 7. Radiated Spurious Emissions, LTE CAT-M1 Band 12 Mid Channel 707.5 MHz Co-Transmission with LoRa High Channel 914.9 MHz (30 MHz – 1 GHz) Test Results

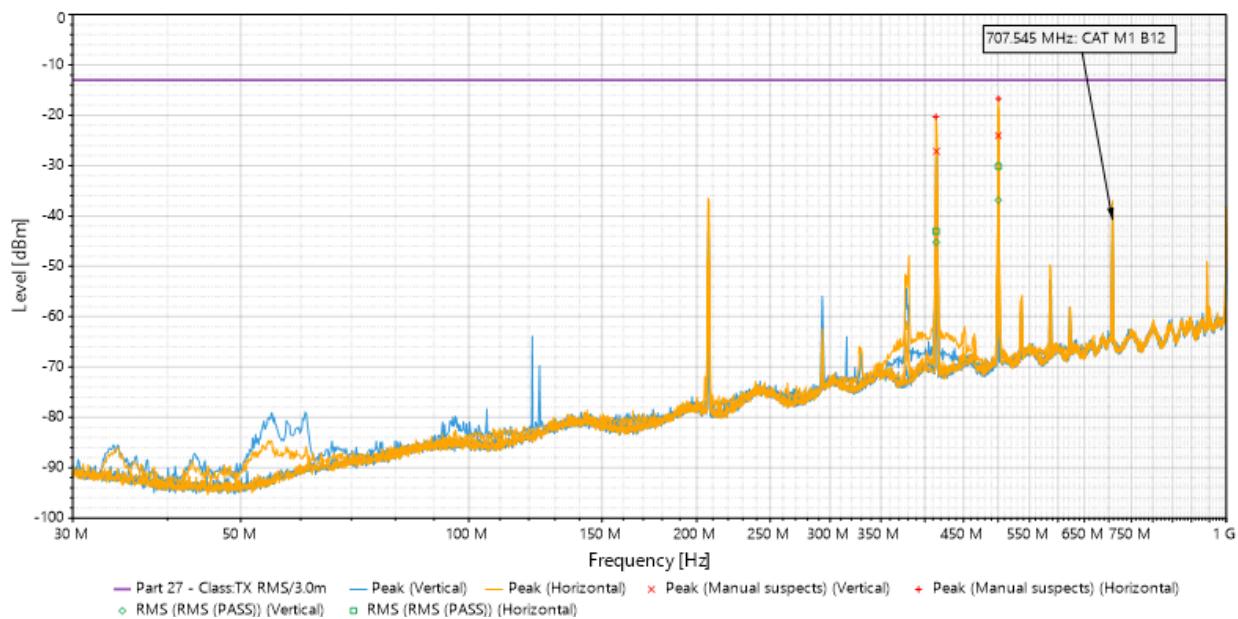


Figure 8. Radiated Spurious Emissions, LTE CAT-M1 Band 12 Mid Channel 707.5 MHz Co-Transmission with LoRa High Channel 914.9 MHz (30 MHz – 1 GHz) Plot

Frequency (MHz)	Source	RMS (dBm)	RMS Limit (dBm)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
1121.8	RMS (PASS)	-23.441	-13	-10.441	1.808	307	Horizontal	1000000	0.1	10.132
1122.7	RMS (PASS)	-31.882	-13	-18.882	2.041	233	Vertical	1000000	0.1	10.141
1207.2	RMS (PASS)	-40.709	-13	-27.709	2.284	191	Vertical	1000000	0.1	10.666
1207.8	RMS (PASS)	-30.549	-13	-17.549	1.579	265	Horizontal	1000000	0.1	10.67
1328.5	RMS (PASS)	-38.265	-13	-25.265	1.354	242	Horizontal	1000000	0.1	11.602
1328.8	RMS (PASS)	-42.442	-13	-29.442	3.276	270	Vertical	1000000	0.1	11.603
1414.9	RMS (PASS)	-46.317	-13	-33.317	2.737	242	Vertical	1000000	0.1	12.284
1415.2	RMS (PASS)	-36.976	-13	-23.976	1.473	241	Horizontal	1000000	0.1	12.287
1622.2	RMS (PASS)	-51.527	-13	-38.527	3.613	216	Horizontal	1000000	0.1	13.836

Table 8. Radiated Spurious Emissions, LTE CAT-M1 Band 12 Mid Channel 707.5 MHz Co-Transmission with LoRa High Channel 914.9 MHz (1 – 18 GHz) Test Results

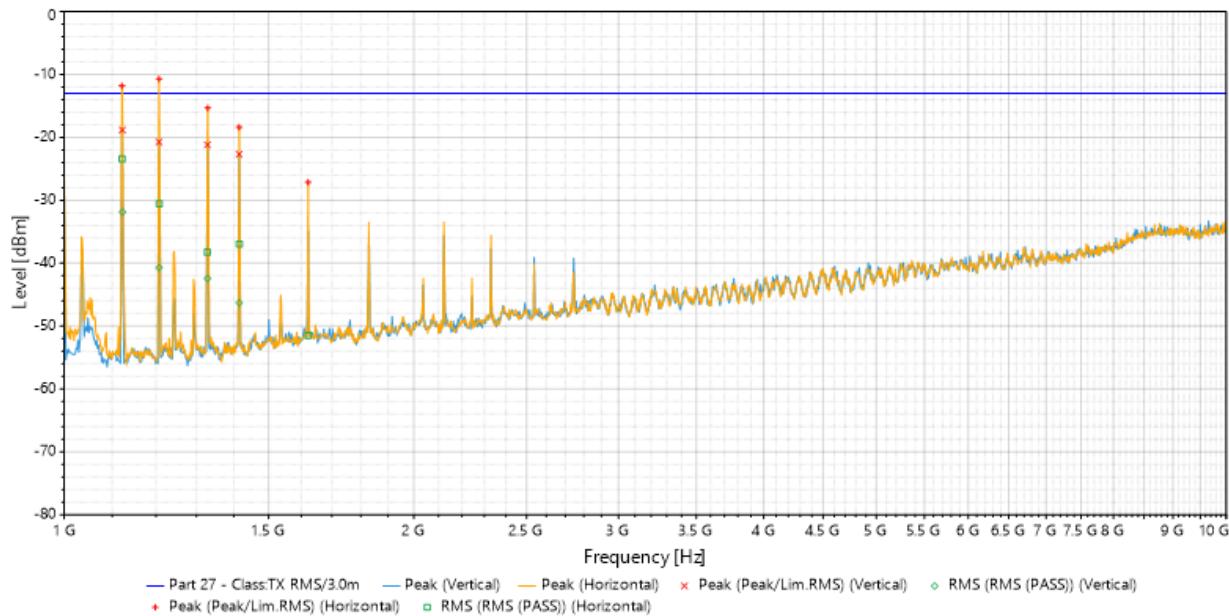


Figure 9. Radiated Spurious Emissions, LTE CAT-M1 Band 12 Mid Channel 707.5 MHz Co-Transmission with LoRa High Channel 914.9 MHz (1 – 18 GHz) Plot

Frequency (MHz)	Source	RMS (dBm)	RMS Limit (dBm)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
384.148	RMS (PASS)	-47.304	-13	-34.304	1	25	Horizontal	100000	0.1	7.708
397.179	RMS (PASS)	-51.588	-13	-38.588	1	10	Horizontal	100000	0.1	8.312
398.832	RMS (PASS)	-50.475	-13	-37.475	3.969	76	Vertical	100000	0.1	8.391
516.038	RMS (PASS)	-44.743	-13	-31.743	2.493	40	Vertical	100000	0.1	10.49
516.321	RMS (PASS)	-34.238	-13	-21.238	2.376	24	Horizontal	100000	0.1	10.495
649.289	RMS (PASS)	-43.997	-13	-30.997	3.393	40	Vertical	100000	0.1	12.809
649.479	RMS (PASS)	-32.716	-13	-19.716	1.708	22	Horizontal	100000	0.1	12.81

Table 9. Radiated Spurious Emissions, LTE CAT-M1 Band 13 Mid Channel 782 MHz Co-Transmission with LoRa High Channel 914.9 MHz (30 MHz – 1 GHz) Test Results

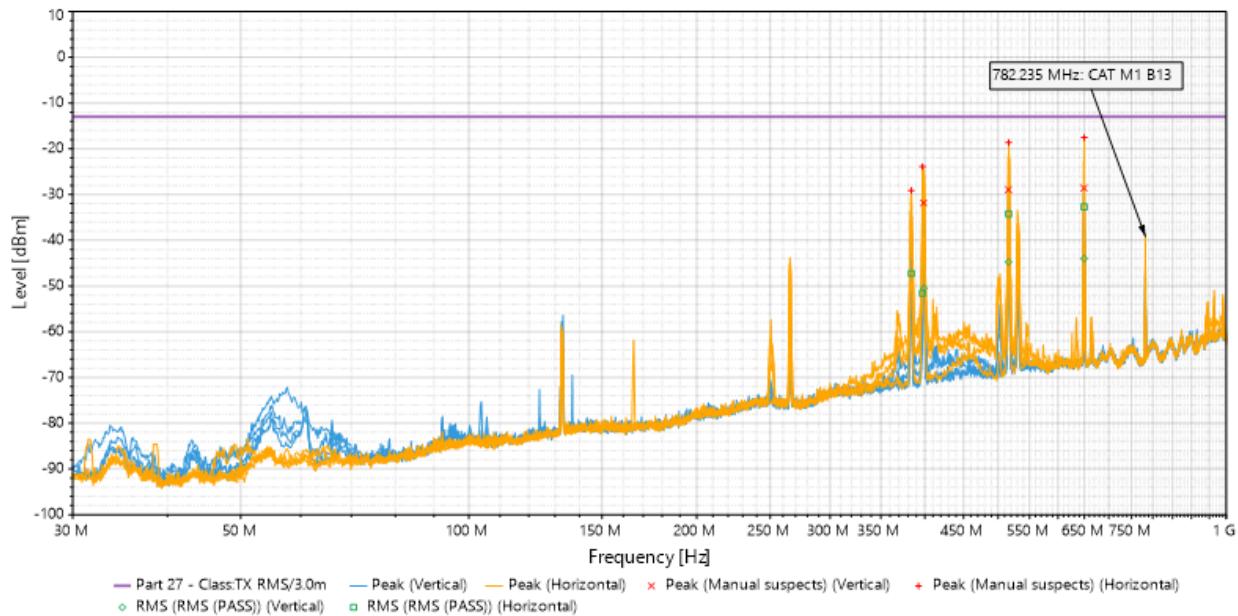


Figure 10. Radiated Spurious Emissions, LTE CAT-M1 Band 13 Mid Channel 782 MHz Co-Transmission with LoRa High Channel 914.9 MHz (30 MHz – 1 GHz) Plot

Frequency (MHz)	Source	RMS (dBm)	RMS Limit (dBm)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
1047.2	RMS (PASS)	-25.31	-13	-12.31	1.587	25	Horizontal	1000000	0.1	9.518
1048	RMS (PASS)	-26.088	-13	-13.088	4	75	Vertical	1000000	0.1	9.522
1166.8	RMS (PASS)	-48.323	-13	-35.323	1.579	52	Vertical	1000000	0.1	10.465
1167.1	RMS (PASS)	-43.225	-13	-30.225	1.584	110	Horizontal	1000000	0.1	10.467
1298.7	RMS (PASS)	-35.196	-13	-22.196	1	66	Horizontal	1000000	0.1	11.416
1298.8	RMS (PASS)	-40.549	-13	-27.549	3.286	78	Vertical	1000000	0.1	11.417
1312.6	RMS (PASS)	-40.635	-13	-27.635	1	66	Horizontal	1000000	0.1	11.503
1313.1	RMS (PASS)	-44.445	-13	-31.445	3.161	79	Vertical	1000000	0.1	11.506
1564.2	RMS (PASS)	-41.638	-13	-28.638	1.134	90	Vertical	1000000	0.1	13.523
1564.2	RMS (PASS)	-44.03	-13	-31.03	1.469	222	Horizontal	1000000	0.1	13.523

Table 10. Radiated Spurious Emissions, LTE CAT-M1 Band 13 Mid Channel 782 MHz Co-Transmission with LoRa High Channel 914.9 MHz (1 – 18 GHz) Test Results

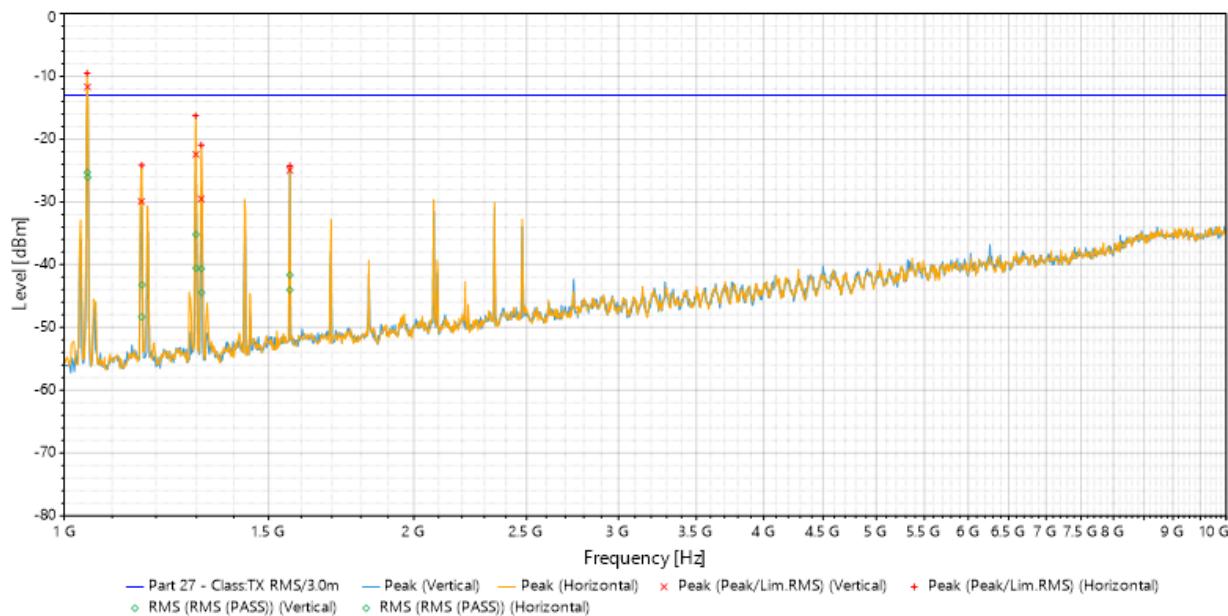


Figure 11. Radiated Spurious Emissions, LTE CAT-M1 Band 13 Mid Channel 782 MHz Co-Transmission with LoRa High Channel 914.9 MHz (1 – 18 GHz) Plot

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Frequency (MHz)	Source	RMS (dBm)	RMS Limit (dBm)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
384.63	RMS (PASS)	-58.391	-13	-45.391	3.497	4	Horizontal	100000	0.1	7.73
435.684	RMS (PASS)	-49.276	-13	-36.276	3.298	347	Horizontal	100000	0.1	8.947
531.753	RMS (PASS)	-47.46	-13	-34.46	2.141	197	Horizontal	100000	0.1	11.087
627.816	RMS (PASS)	-50.555	-13	-37.555	1.92	195	Horizontal	100000	0.1	12.509

Table 11. Radiated Spurious Emissions, LTE CAT-M1 Band 26 Mid Channel 819 MHz Co-Transmission with LoRa High Channel 914.9 MHz (30 MHz – 1 GHz) Test Results

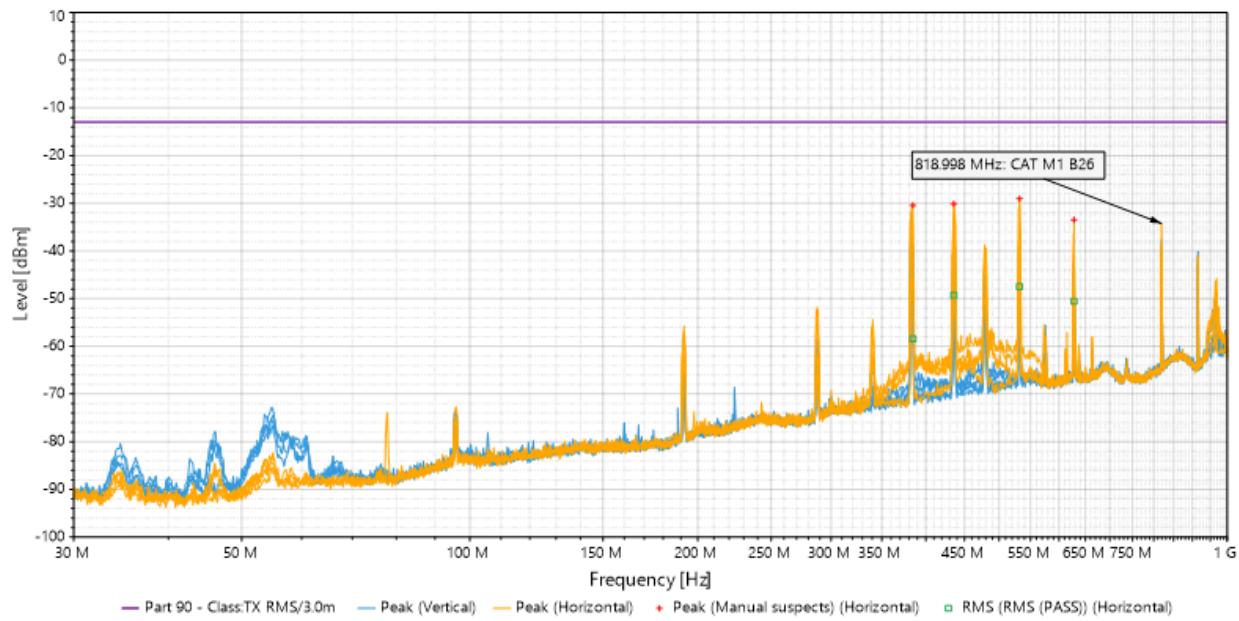


Figure 12. Radiated Spurious Emissions, LTE CAT-M1 Band 26 Mid Channel 819 MHz Co-Transmission with LoRa High Channel 914.9 MHz (30 MHz – 1 GHz) Plot

Frequency (MHz)	Source	RMS (dBm)	RMS Limit (dBm)	Margin (dB)	Height (m)	Azimuth (°)	Pol.	RBW (Hz)	Meas. Time (s)	Correction (dB)
1010.6	RMS (PASS)	-15.451	-13	-2.451	2.7	219	Horizontal	1000000	0.1	9.285
1010.6	RMS (PASS)	-17.612	-13	-4.612	3.365	275	Vertical	1000000	0.1	9.285
1105.6	RMS (PASS)	-39.938	-13	-26.938	2.84	274	Vertical	1000000	0.1	9.978
1105.8	RMS (PASS)	-32.552	-13	-19.552	1.821	309	Horizontal	1000000	0.1	9.98
1203	RMS (PASS)	-45.779	-13	-32.779	2.373	355	Vertical	1000000	0.1	10.642
1203.9	RMS (PASS)	-43.551	-13	-30.551	1.473	267	Horizontal	1000000	0.1	10.647
1297.2	RMS (PASS)	-41.148	-13	-28.148	1.47	244	Horizontal	1000000	0.1	11.406
1297.3	RMS (PASS)	-45.158	-13	-32.158	2.728	282	Vertical	1000000	0.1	11.407
1446	RMS (PASS)	-48.862	-13	-35.862	1.241	236	Horizontal	1000000	0.1	12.626
1638.2	RMS (PASS)	-40.352	-13	-27.352	1.13	232	Horizontal	1000000	0.1	13.896

Table 12. Radiated Spurious Emissions, LTE CAT-M1 Band 26 Mid Channel 819 MHz Co-Transmission with LoRa High Channel 914.9 MHz (1 – 10 GHz) Test Results

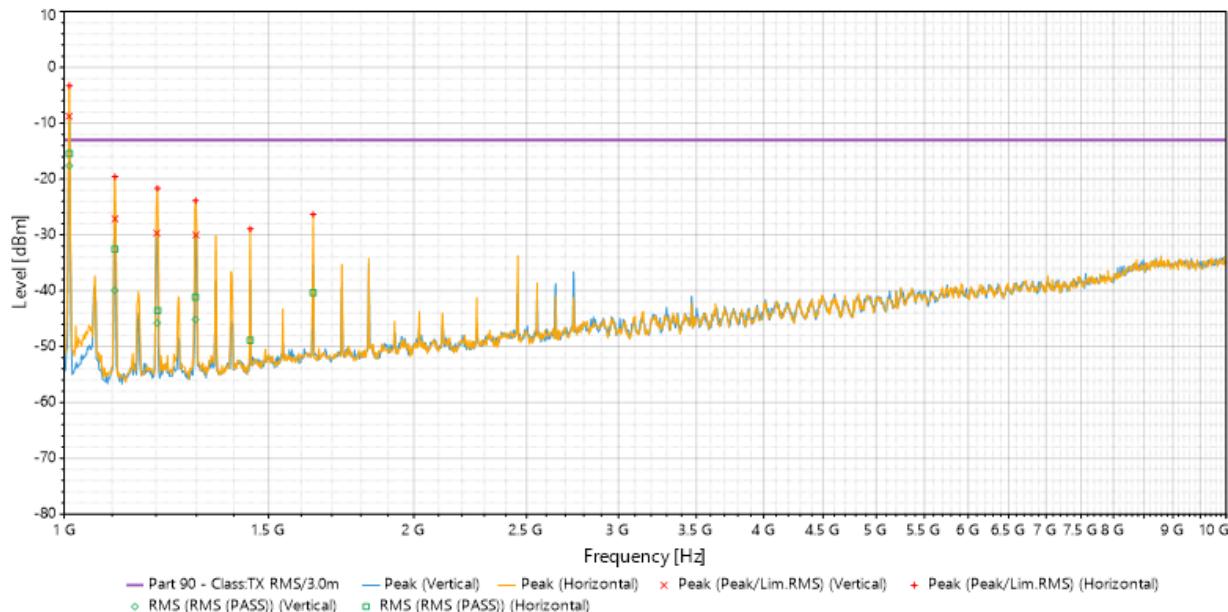


Figure 13. Radiated Spurious Emissions, LTE CAT-M1 Band 26 Mid Channel 819 MHz Co-Transmission with LoRa High Channel 914.9 MHz (1 – 10 GHz) Plot

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

Test Name: KDB 996369 D04 RSE			Test Date(s): 06/25/2025 – 06/27/2025		
Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S2399	Turntable Controller	Sunol Sciences	SC99V	See Note 1	
1S4856	Antenna Positioning Tower	ETS-Lindgren	2171B	See Note 1	
1S2482	5 Meter Chamber	Panashield - ETS	5 Meter Semi-Anechoic Chamber	See Note 2	
1S4852	Radio Communicator Analyzer	Anritsu	MT8821C	N/A	
1S4804	EMI Test Receiver	Rohde & Schwarz	ESW44	08/07/2024	08/07/2025
1S2485	Bilog Antenna	Teseq	CBL6112D	11/27/2024	11/27/2026
1S2435	Horn Antenna	ETS-Lindgren	3117	03/17/2025	03/17/2027
1U0327	DRG Horn Antenna	A.H. Systems, Inc.	SAS-574	11/28/2024	11/28/2026
1S2668	Pre-Amplifier	Sonoma Instruments	310 N	03/18/2025	03/18/2027
1S4802	Pre-Amplifier	EMC Instruments Corporation	EMC118A45SE	See Note 1	
1S3865	Table Top Amplifier	MITEQ	TTA1840-35-HG	See Note 1	

Note 1: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.
Note 2: Latest NSA and VSWR data available upon request.

Table 13. Radiated Spurious Emissions, Test Equipment

END OF REPORT