

April 06, 2022

CESI SPA
Via Raffaele Rubattino 54
Milano, Italy 20134

Dear Francesca Gaetani,

Enclosed is the EMC Wireless test report for compliance testing of the CESI SPA, JuiceBox 2.01 40A Commercial as tested to the requirements of Title 47 of the CFR, Ch. 1 (10-1-06 ed.), Part 15 Subpart C for Intentional Radiators.

Thank you for using the services of Eurofins Electrical and Electronic Testing NA, Inc. If you have any questions regarding these results or if Eurofins Electrical and Electronic Testing NA, Inc. can be of further service to you, please feel free to contact me.

Gary Chou

Documentation Department
Eurofins Electrical and Electronic Testing NA, Inc.

Reference: WIR113585-FCC-BLE Report



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FCC Test Report

Applicant name: CESI S.p.A

Product: EV Charger

Report: WIR113585-FCC-BLE

Applicant Address:

**Via Raffaele Rubattino 54
Milano, Italy 20134**

Prepared By:
Eurofins Electrical and Electronic Testing NA, Inc.
3162 Belick St.
Santa Clara CA, 95054

FCC Test Report

Applicant name : CESI S.p.A

Product: EV Charger

Standard
47 CFR FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10: 2013 2009

Gary Chou

Gary Chou
Wireless Engineering Manager, Wireless Laboratory

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. 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 of Part 22 Subpart H and Part 24 Subpart E and Part 27 Subpart L of the FCC Rules under normal use and maintenance.

Eleazar Zuniga

Eleazar Zuniga,
Director, Wireless Laboratory

Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	April 06, 2022	Initial Issue.

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I. Executive Summary

A. Executive Summary

47 CFR FCC Part 15, Subpart C (SECTION 15.247)			
FCC/ IC Cluse	Test Item	Result	Remarks
15.205 &15.209 & 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth & 99% bandwidth	N/A	Note 2
15.247(b)	Conducted power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	N/A	Note 2
15.203	Antenna Requirement	PASS	PCB antenna (without connector) meet the requirement.

Note:

1.Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2 Please refer FCC report: QOQ13

II. Equipment Information

A. Overview

EUT Summary Table

Product:	EV Charger	
Brand:	CESI S.p.A	
Model(s) Tested:	JuiceBox 2.01 40A	
Series Model:	JuiceBox 2.01 32A, JuiceBox 2.01 48A, JuiceBox 2.01 80A	
Filing Status:	Original	
EUT Specifications:	Primary Power:	120Vac.
	Voltage: 120Vac.	
	Voltage Frequency:	50/60 Hz
	Technology / Type of Modulations:	WLAN 802.11 B/G/N: DSSS/ OFDM NFC : ASK UMTS : OFDM LTE : OFDM BLE : GFSK
	Operating Frequency :	NFC:13.56 MHz WLAN: 2412-2462 MHz BLE: 2402-2480MHz Cellular: WCDMA: BAND 2 1850 MHz- 1910 MHz BAND 5 824 MHz-849 MHz LTE: BAND 2 1850 MHz- 1910 MHz BAND 4 1710 MHz- 1755 MHz BAND 5 824 MHz-849 MHz BAND 12 699 MHz- 712 MHz BAND 13 777 MHz- 787 MHz
	FCC ID:	2A4LRJB201NA
	ISED ID:	N/A
	Hardware Rev:	09
	Firmwave Rev:	05
	Antenna Type:	WLAN: Chip Antenna 1.86dBi

		BLE: PCB Antenna 1dBi RFID: PCB LOOP Antenna Cellular (WCDMA/ LTE): Flexible Ultra Wide Band Antenna -Band 2/ 5: 5 dBi -Band 12/ 13: 2.7 dBi
Analysis:	The results obtained relate only to the item(s) tested.	
Environmental Test Conditions:	Temperature: 20.3° C	
	Relative Humidity: 47.5%	
	Barometric Pressure: 860-1060 mbar	
Evaluated by:	Gary Chou	
Issue Date(s):	April 06, 2022	

NOTE: The following modules can be chosen to be configured in the EUT.

	Model No.	FCC ID	Note
Cellular	Telit	RI7LE910NAV2	-
WLAN	Silicon Labs	QOQWGM160P	-
RFID	NXP	OWRCLEV6630B	-
BLE	Silicon Labs	QOQ13	-

B. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
B	Laptop	ACER	A315-51-533U	NXGNPAA0167300AA597600	-	-

Note: (Describe the outline of a simulator, if used for the tests, as a note under the table.)

Insert Cable Connections to/from EUT provided by test team.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
	-	-	-	-	0	-

Note: The core(s) is(are) originally attached to the cable(s).

General Description of Applied Standards

C. References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

- o 47 CFR FCC Part 15, Subpart C (Section 15.247)
- o 558074 D01 15.247 Meas Guidance v05r02
- o ANSI C63.10:2013

D. Test Site

All testing was performed at Eurofins Electrical and Electronic Testing NA, Inc., 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 Electrical and Electronic Testing NA, Inc. has been accredited by the American Association for Laboratory Accreditation (A2LA) (Certificate #: 0591.02) in accordance with ISO/IEC 17025:2017.

Eurofins Electrical and Electronic Testing NA, Inc. is part of the Eurofins Electrical & Electronics (E&E) global compliance network.

E. Measurement Uncertainty

Test Method	Typical Expanded Uncertainty	K	Confidence Level
RF Frequencies	±4.52 Hz	2	95%
RF Power Conducted Emissions	±2.32 dB	2	95%
RF Power Conducted Spurious Emissions	±2.25 dB	2	95%
RF Power Radiated Emissions	±3.01 dB	2	95%

Uncertainty Calculations Summary

F. Modifications

a) Modifications to EUT

No modifications were made to the EUT.

b) Modifications to Test Standard

No modifications were made to the test standard.

G. Disposition of EUT

The test sample including all support equipment (if any), submitted to the Electromagnetic Compatibility Lab for testing was returned to CESI S.p.A upon completion of testing.

III. Electromagnetic Compatibility Criteria for Intentional Radiators

Radiated Emission and Bandage Measurement

Limits of Radiated Emission and Bandage Measurement:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

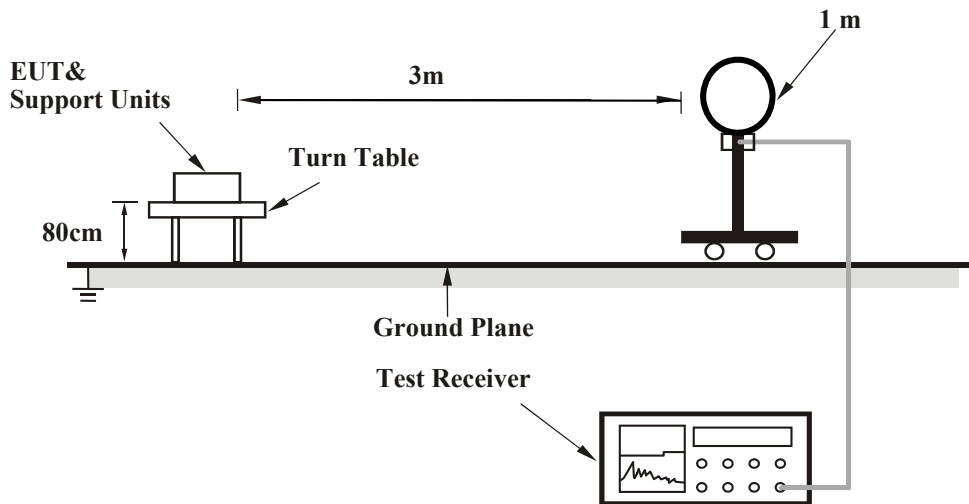
Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Test Procedures:

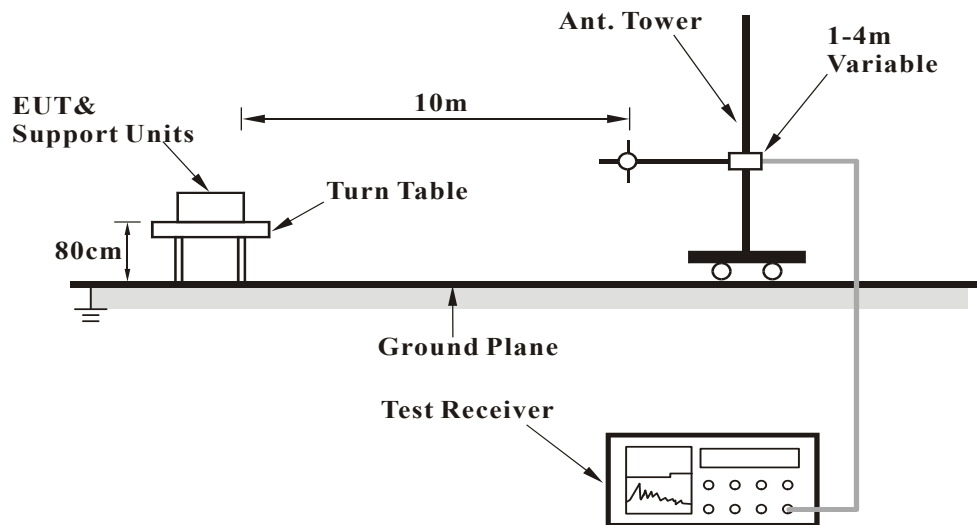
The transmitter was turned on. Measurements were performed of the low, mid and high Channels. The EUT was rotated orthogonally through all three axes. Plots shown are corrected for both antenna correction factor and distance and compared to a 3 m limit line. Only noise floor was measured above 18 GHz.

Test Setup

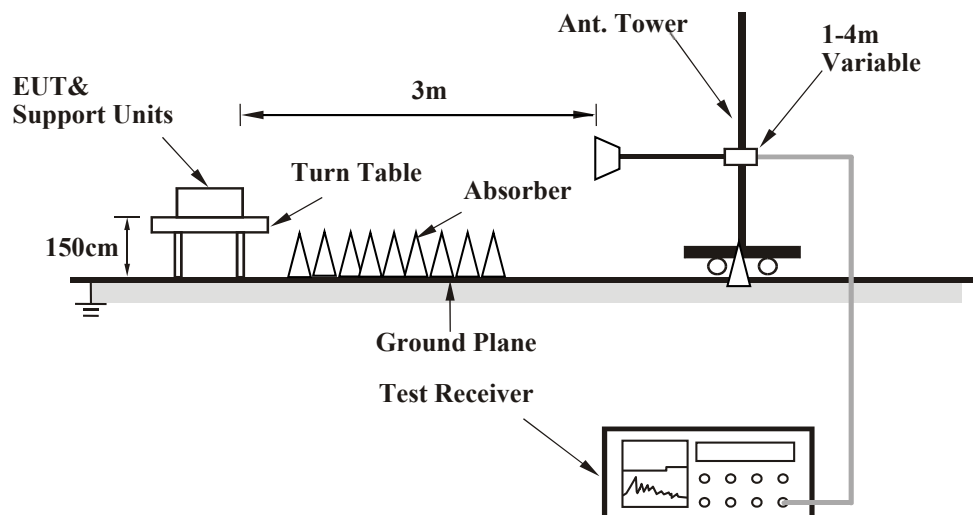
For Radiated Emission Below 30MHz



For Radiated emission 30 MHz to 1GHz



For Radiated emission 30 MHz to 1GHz



Test Results: The EUT was tested is **compliant** with Radiated Spurious Emissions Requirements.

Test Equipment List

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

Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S2003	EMI Test Receiver	ROHDE & SCHWARZ	N9030B	10/08/2021	10/08/2022
1S2399	Turntable Controller	SUNOL SCIENCE	SC99V	Not Required	Not Required
1S2486	5 Meter Chamber Control Room	Panashield	5 Meter Control Room	Not Required	Not Required
1S2435	Horn Antenna	ETS-LINDGREN	3117	03/03/2021	03/09/2023
N/A	Preamplifier	EMC Instrument	EMC118A45SE	Note 1	Note 1
1S2668	Preamplifier	Sonoma Instrument	310N	Note 1	Note 1
1S2600	Antenna	TESEQ GmbH	D-12623	05/ 11/ 2021	05/ 11/ 2023
1S3983	Loop Antenna	ETS-LINDGREN	6512	10/ 14 /2021	10/ 14 /2023
Note 1: Verified by calibrated instrumentation at the time of testing					

Test Engineer: Rafael Aguilar

Test Date(s): 02/28/2022

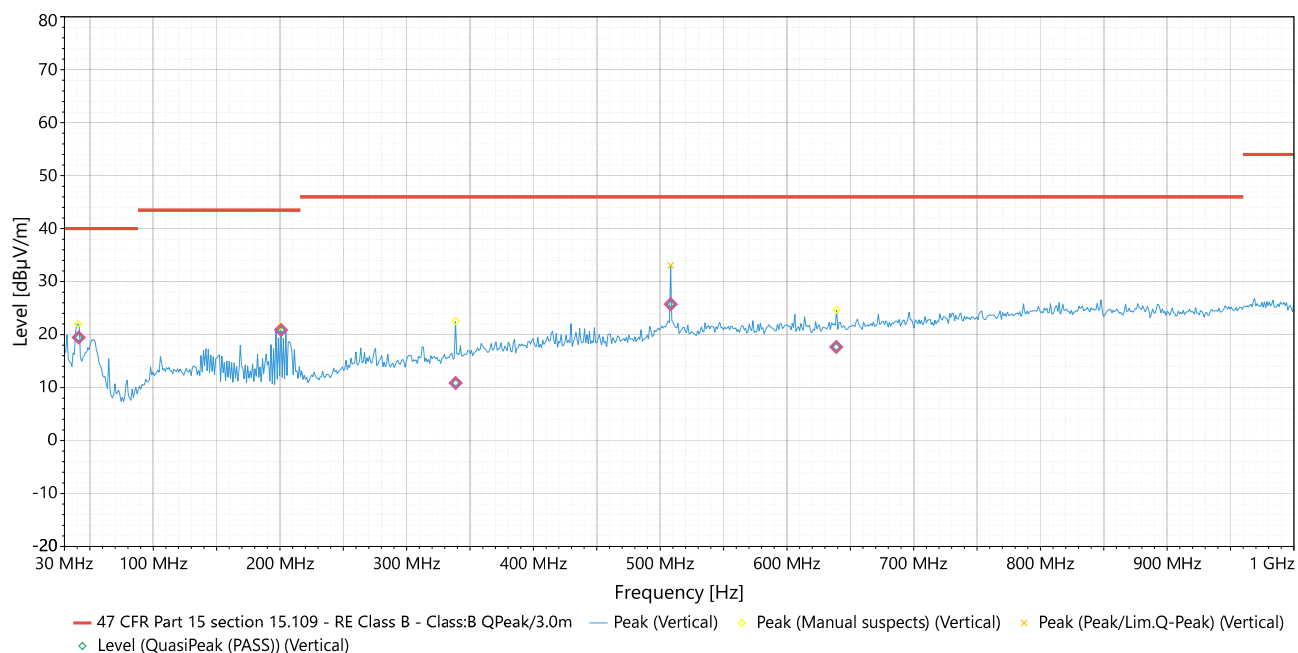
Note: 9KHz-30MHz, 18GHz-26GHz unwanted mission were not found so result is not record.

Test Data

Radiated Emissions (30 MHz~1000 MHz)

EUT Test Condition		Measurement Detail	
Input Power	120 Vac	Frequency Range	30MHz-1GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Rafael Aguilar
Test Mode	TX MODE BLE 2440 MHz		

#1 - 30MHz-1GHz (Vertical)



Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level Peak [dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (cm)	Angle (Deg)	Factor [dB(1/m)]	Pass/Fail
1	41.15	Vertical	19.43	40	-20.57	1	351	-15.95	Pass
2	200.9	Vertical	20.85	43.5	-22.65	1.65	252	-15.72	Pass
3	338.652	Vertical	10.88	46	-35.12	1.01	299	-10.7	Pass
4	508.234	Vertical	25.74	46	-20.26	1.7	242	-6.99	Pass
5	638.944	Vertical	17.65	46	-28.35	2.55	105	-5.03	Pass

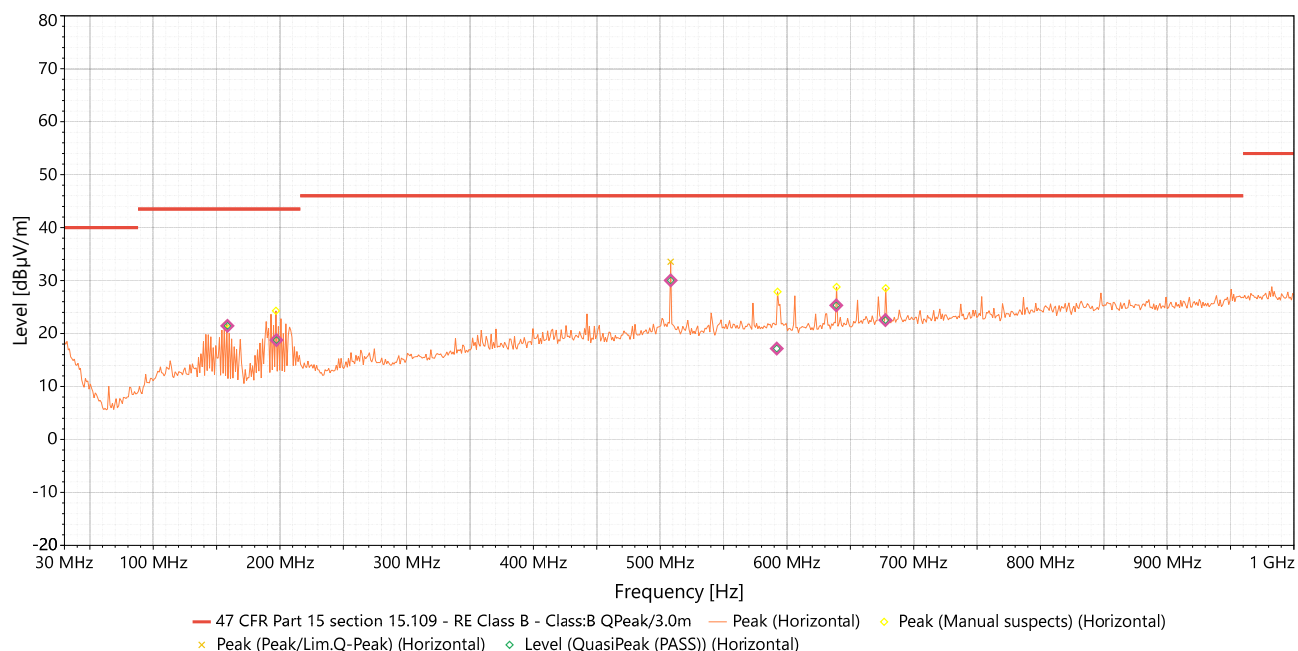
REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.

4. The emission levels of other frequencies were less than 20dB margin against the limit.

EUT Test Condition		Measurement Detail	
Input Power	120 Vac	Frequency Range	30MHz-1GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Rafael Aguilar
Test Mode	TX MODE BLE 2440 MHz		

#2 - 30MHz-1GHz (Horizontal)



Antenna Polarity & Test Distance: Horizontal at 3m									
No.	Frequency (MHz)	Polarization	Level Peak[dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (cm)	Angle (Deg)	Factor [dB(1/m)]	Pass/Fail
1	158.52	Horizontal	21.46	43.5	-22.04	1.26	347	-16.27	Pass
2	197.21	Horizontal	18.77	43.5	-24.73	1.41	172	-16.23	Pass
3	508.25	Horizontal	30.03	46	-15.97	3.76	24	-6.79	Pass
4	591.94	Horizontal	17.16	46	-28.84	1	326	-5.61	Pass
5	638.96	Horizontal	25.31	46	-20.69	1.11	78	-4.83	Pass
6	677.66	Horizontal	22.53	46	-23.47	2.09	0	-4.48	Pass

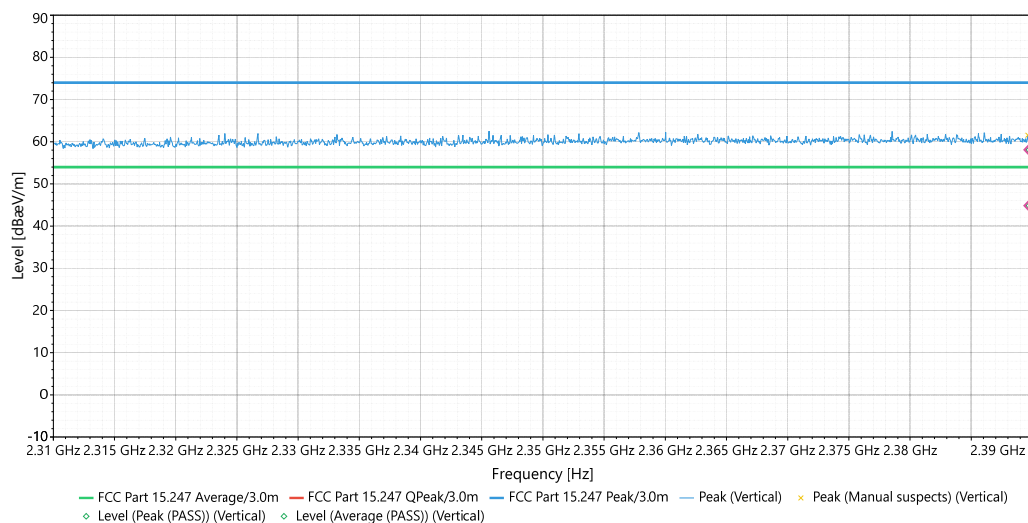
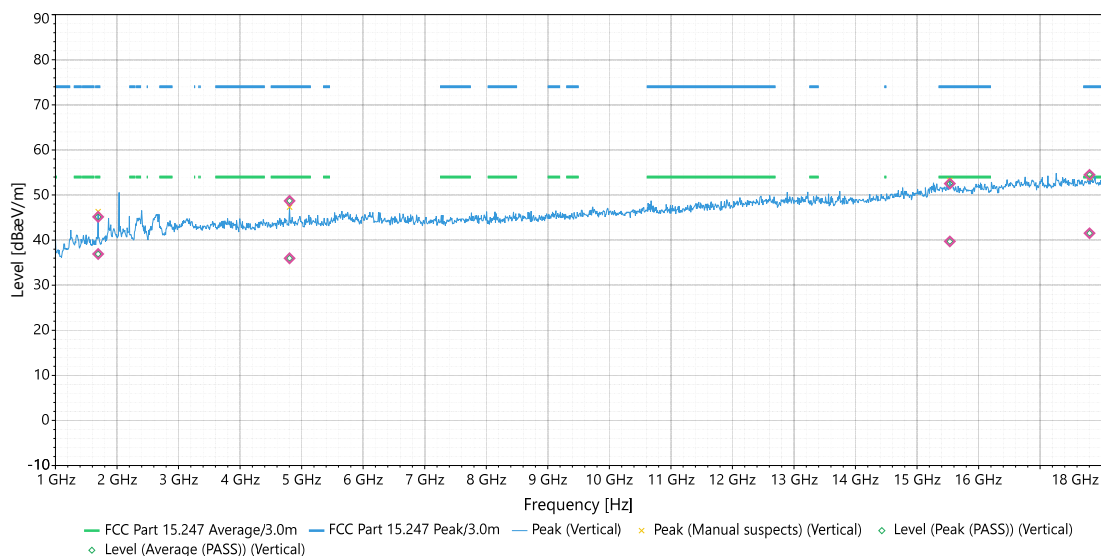
REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.

4. The emission levels of other frequencies were less than 20dB margin against the limit.

Radiated Emissions (Above 1GHz)

EUT Test Condition		Measurement Detail	
Input Power	120 Vac	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Rafael Aguilar
Test Mode	TX MODE BLE 2402 MHz		

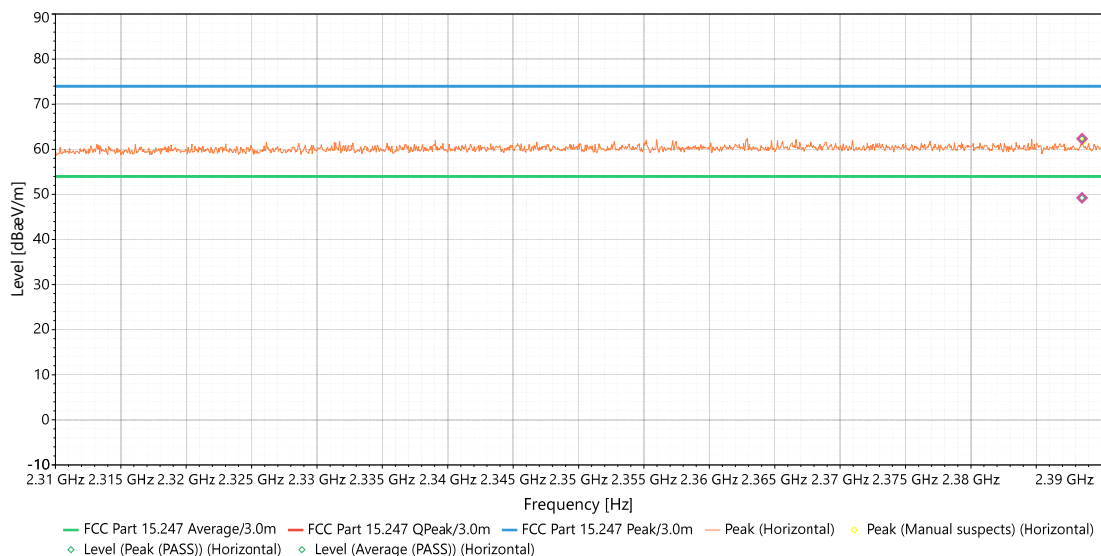
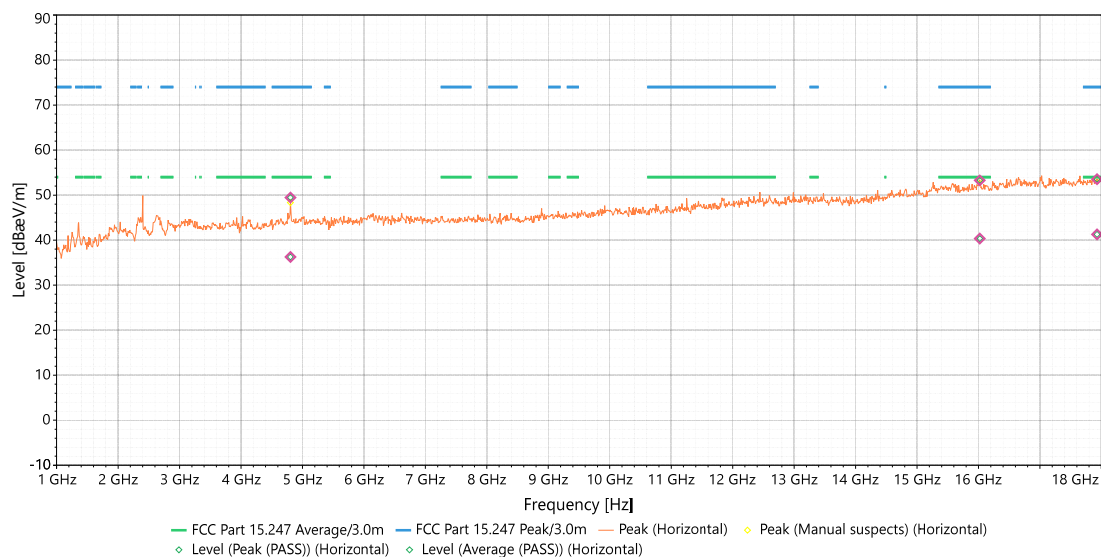


Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level Peak[dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (cm)	Angle (Deg)	Factor [dB(1/m)]	Pass/Fail
1	1693.6	Vertical	45.15	74	-28.85	1.67	348	-2.43	Pass
2	1693.6	Vertical	36.91	54	-17.09	1.67	348	-2.43	Pass
3	4804.6	Vertical	48.71	74	-25.29	2.55	0	1.73	Pass
4	4804.6	Vertical	35.97	54	-18.03	2.55	0	1.73	Pass
5	15533	Vertical	52.53	74	-21.47	1.77	194	4.82	Pass
6	15533	Vertical	39.71	54	-14.29	1.77	194	4.82	Pass
7	17803	Vertical	54.47	74	-19.53	1.15	34	3.27	Pass
8	17803	Vertical	41.52	54	-12.48	1.15	34	3.27	Pass
9	2389.7	Vertical	58.08	74	-15.92	1	195	37.46	Pass
10	2389.7	Vertical	44.86	54	-9.14	1	195	37.46	Pass

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

EUT Test Condition		Measurement Detail	
Input Power	120 Vac	Frequency Range	30MHz-1GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Rafael Aguilar
Test Mode	TX MODE BLE 2402 MHz		

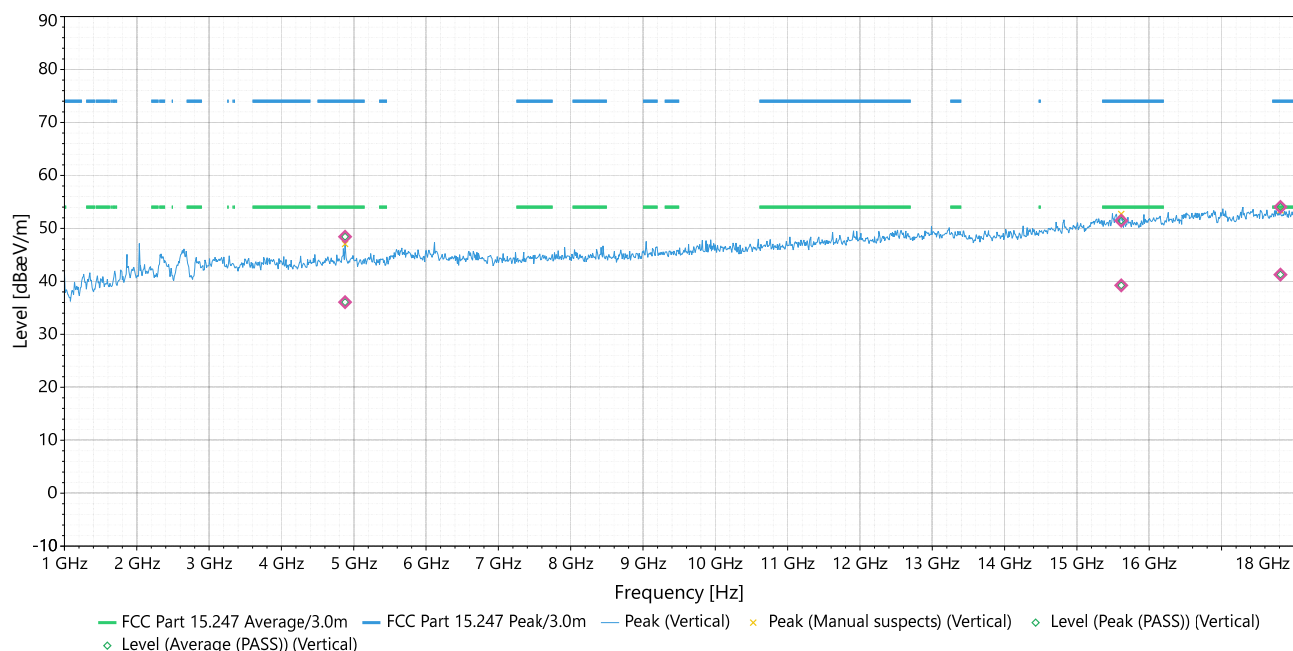


Antenna Polarity & Test Distance: Horizontal at 3m									
No.	Frequency (MHz)	Polarization	Level Peak[dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (cm)	Angle (Deg)	Factor [dB(1/m)]	Pass/Fail
1	4804.6	Horizontal	49.47	74	-24.53	2.47	1	2.29	Pass
2	4804.6	Horizontal	36.27	54	-17.73	2.47	1	2.29	Pass
3	16021	Horizontal	53.28	74	-20.72	2.75	65	5.26	Pass
4	16021	Horizontal	40.35	54	-13.65	2.75	65	5.26	Pass
5	17929	Horizontal	53.55	74	-20.45	1.4	7	3.08	Pass
6	17929	Horizontal	41.28	54	-12.72	1.4	7	3.08	Pass
7	2388.5	Horizontal	62.35	74	-11.65	1.52	202	37.51	Pass
8	2388.5	Horizontal	49.25	54	-4.75	1.52	202	37.51	Pass

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

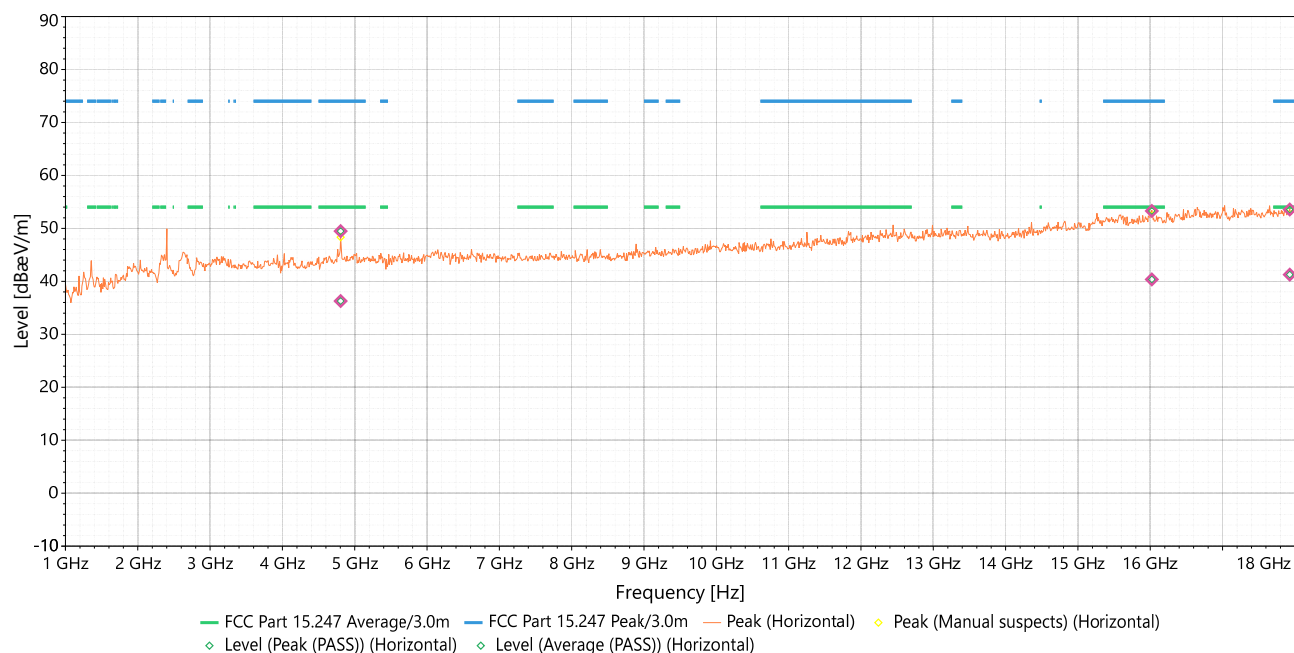
EUT Test Condition		Measurement Detail	
Input Power	120 Vac	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Rafael Aguilar
Test Mode	TX MODE BLE 2440 MHz		



Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level Peak[dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (cm)	Angle (Deg)	Factor [dB(1/m)]	Pass/Fail
1	4879.4	Vertical	48.42	74	-25.58	2.66	98	1.85	Pass
2	4879.4	Vertical	36.08	54	-17.92	2.66	98	1.85	Pass
3	15613	Vertical	51.46	74	-22.54	1.58	343	4.76	Pass
4	15613	Vertical	39.24	54	-14.76	1.58	343	4.76	Pass
5	17813	Vertical	54.04	74	-19.96	2.86	119	3.25	Pass
6	17813	Vertical	41.28	54	-12.72	2.86	119	3.25	Pass

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

EUT Test Condition		Measurement Detail	
Input Power	120 Vac	Frequency Range	30MHz-1GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Rafael Aguilar
Test Mode	TX MODE BLE 2440 MHz		

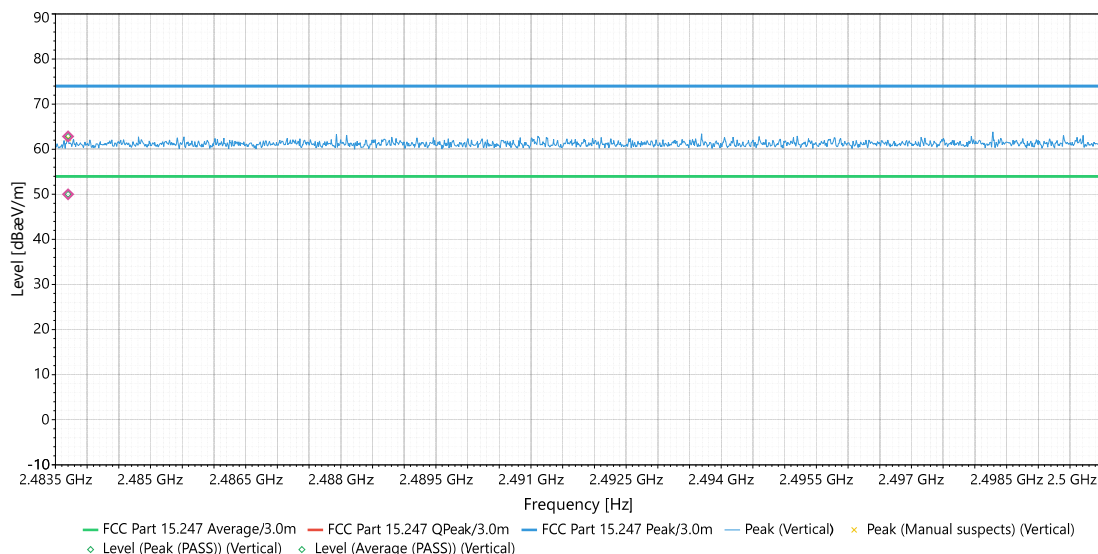
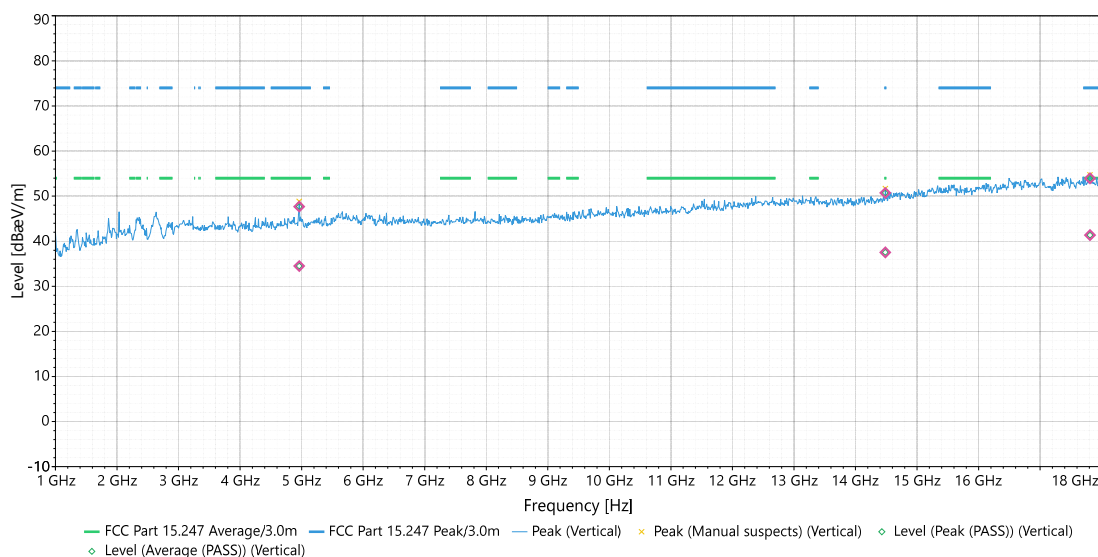


Antenna Polarity & Test Distance: Horizontal at 3m									
No.	Frequency (MHz)	Polarization	Level Peak[dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (cm)	Angle (Deg)	Factor [dB(1/m)]	Pass/Fail
1	4879.4	Horizontal	51.01	74	-22.99	1.48	111	2.29	Pass
2	4879.4	Horizontal	38.72	54	-15.28	1.48	111	2.29	Pass
3	16038	Horizontal	53.21	74	-20.79	1.45	74	5.3	Pass
4	16038	Horizontal	39.89	54	-14.11	1.45	74	5.3	Pass
5	17820	Horizontal	54.17	74	-19.83	1.2	219	3.23	Pass
6	17820	Horizontal	41.16	54	-12.84	1.2	219	3.23	Pass

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

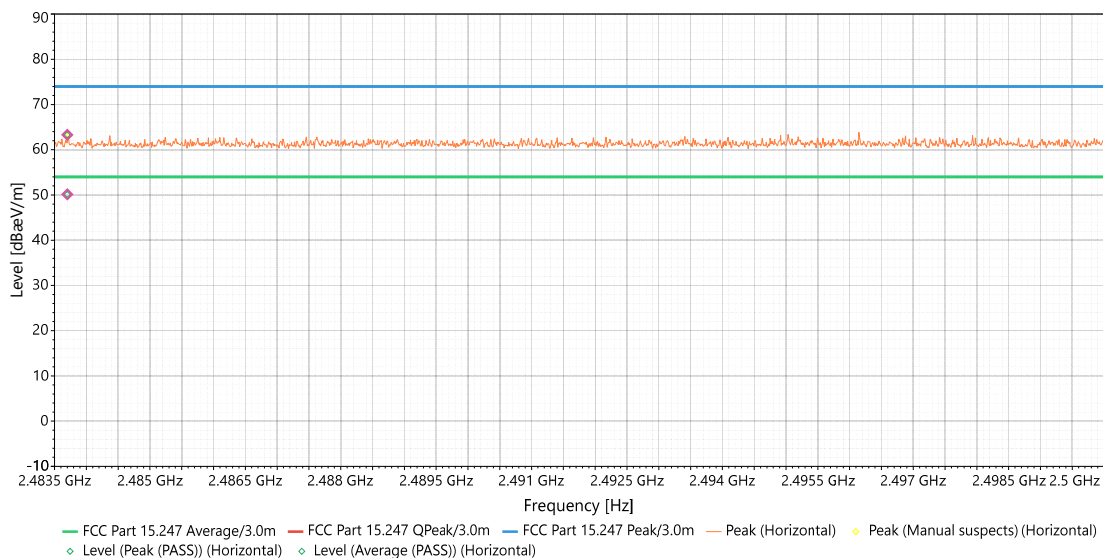
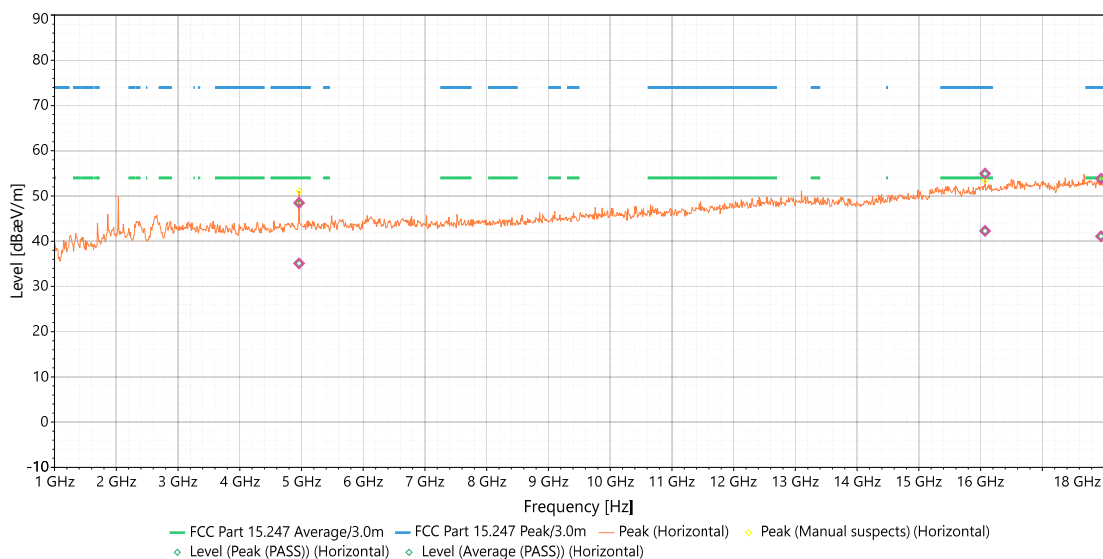
EUT Test Condition		Measurement Detail	
Input Power	120 Vac	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Rafael Aguilar
Test Mode	TX MODE BLE 2480 MHz		



Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level Peak[dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (cm)	Angle (Deg)	Factor [dB(1/m)]	Pass/Fail
1	4961	Vertical	47.69	74	-26.31	2.07	90	1.98	Pass
2	4961	Vertical	34.49	54	-19.51	2.07	90	1.98	Pass
3	14484	Vertical	50.71	74	-23.29	2.45	336	3.28	Pass
4	14484	Vertical	37.53	54	-16.47	2.45	336	3.28	Pass
5	17810	Vertical	53.95	74	-20.05	2.5	24	3.26	Pass
6	17810	Vertical	41.35	54	-12.65	2.5	24	3.26	Pass
7	2483.7	Vertical	62.84	74	-11.16	2.36	341	37.84	Pass
8	2483.7	Vertical	50.00	54	-4.00	2.36	341	37.84	Pass

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

EUT Test Condition		Measurement Detail	
Input Power	120 Vac	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Rafael Aguilar
Test Mode	TX MODE BLE 2480 MHz		



Antenna Polarity & Test Distance: Horizontal at 3m									
No.	Frequency (MHz)	Polarization	Level Peak[dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (cm)	Angle (Deg)	Factor [dB(1/m)]	Pass/Fail
1	4961	Horizontal	48.48	74	-25.52	2.75	128	2.56	Pass
2	4961	Horizontal	35.09	54	-18.91	2.75	128	2.56	Pass
3	16072	Horizontal	54.94	74	-19.06	2.29	274	5.33	Pass
4	16072	Horizontal	42.29	54	-11.71	2.29	274	5.33	Pass
5	17952	Horizontal	53.81	74	-20.19	2.33	263	3.04	Pass
6	17952	Horizontal	41.08	54	-12.92	2.33	263	3.04	Pass
7	2483.7	Horizontal	63.30	74	-10.70	1.06	24	37.96	Pass
8	2483.7	Horizontal	50.13	54	-3.87	1.06	24	37.96	Pass

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

Conducted Output Power Measurement

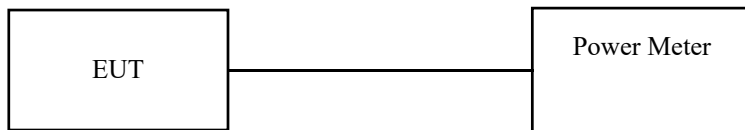
Limits of Conducted Output Power Measurement:

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

Test Procedures:

A power meter sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level

Test Setup:



Test Results: The EUT was tested is **compliant** with Conducted Output Power Measurement.

Test Equipment List

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

Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
N/A	Power Meter	ROHDE & SCHWARZ	NRQ6	10/08/2021	10/08/2022
Note 1: Verified by calibrated instrumentation at the time of testing					

Test Engineer: Rafael Aguilar

Test Date(s): 02/28/2022

Test Data

Data Rate: 1Mbps (Peak Power)

Channel	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Pass/Fail
37	2402	18.52	30	Pass
17	2440	18.14	30	Pass
39	2480	18.49	30	Pass

Data Rate: 1Mbps (Time-Average Power)

Channel	Frequency (MHz)	Conducted Power (dBm)
37	2402	15.22
17	2440	14.84
39	2480	15.19

IV. Pictures of test Arrangements

Please see setup photo file

V. Model difference declaration letter:

Enel X North America, Inc.
360 Industrial Road
San Carlos, CA 94070
USA

03/04/2022

Eurofins Electrical and Electronic Testing NA, Inc.
914 West Patapsco Avenue
Baltimore, MD 21230

RE: Model Declaration

We, Enel X North America, declare that following JuiceBox 2.01 product family filed under FCC ID: 2A4LRJB201NA.

JuiceBox 32, JuiceBox 40, JuiceBox 48 and JuiceBox 80, all have the same main board with the same RF devices. The only difference is the charging power output. JuiceBox 48 and JuiceBox 80 has a different relay board but it has no impact to emission.

Please contact me if there is any information you may need.

Sincerely,



Giovanni Bertolino
Head of e-Mobility, North America

END OF REPORT