TEST REPORT

Report Number : 15496224-E18V2

Applicant : APPLE INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A

Model : A3256 (Parent Model)
A3522, A3523, A3524 (Variant Models)

Brand : APPLE

FCC ID : BCG-E8949A (Parent Model)
BCG-E8957A, BCG-E8958A, BCG-E8959A (Variant Models)

IC : 579C-E8949A (Parent Model)
579C-E8957A, 579C-E8958A, 579C-E8959A (Variant Models)

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
ISED RSS-210 ISSUE 11
ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:
JULY 01, 2025

Prepared by:
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CERT #0751.05

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-06-24	Initial Issue	Darren Aung
V2	2025-07-01	Addressed TCB's Questions Updated Cover Page, Sections 2 & 5.1	Darren Aung

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME:	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A
EUT DESCRIPTION:	SMARTPHONE
MODEL:	A3256 (Parent Model) A3522, A3523, A3524 (Variant Models)
BRAND:	APPLE
SERIAL NUMBER:	L7CNWW4LFH, LH2GPQVTYY
SAMPLE RECEIPT DATE:	MAY 16, 2025
DATE TESTED:	MAY 28, 2025 TO JUNE 22, 2025

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC PART 15 SUBPART C	Complies
ISED RSS-210 Issue 11, Annex B	Complies
ISED RSS-GEN Issue 5 + A1 + A2	Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.

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Approved & Released For
UL Verification Services Inc. By:

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Staff Engineer
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UL Verification Services Inc.

Prepared By:

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Consumer Technology Division
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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- FCC CFR 47 Part 2
- FCC CFR 47 Part 15
- *ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- KDB 414788 D01 Radiated Test Site
- RSS-GEN Issue 5 + A1 + A2
- RSS-210 Issue 11

*Note: The use of ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 does not deviate from the testing procedures of ANSI C63.10-2020

3. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☐	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☐	Building 3: 843 Auburn Court, Fremont, CA 94538 USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538 USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538 USA			

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

4.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.).

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4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U_{Lab}
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.2%
Temperature	±0.57 %
Relative Humidity	3.39 %
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB

Uncertainty figures are valid to a confidence level of 95%.

4.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:
Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:
Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
36.5 dBuV + 0 dB +10.1 dB+ 0 dB = 46.6 dBuV

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5GNR1, 5GNR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible.

5.2. SOFTWARE AND FIRMWARE

The Software and Firmware version used at test is FT: Luck23A256.

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5.3. MAXIMUM E-FIELD STRENGTH

The transmitter has a maximum peak radiated E-field strength as follows:

Antenna	Frequency Range (MHz)	Mode		Kbps	E Field at 30m distance (dBuV/m)
Primary	13.56	Type A	Reader	848	28.96
			CE	848	28.19
			Tag	848	28.4
Secondary	13.56	Type A	Reader	848	5.71
			Tag	848	4.43

5.4. WORST-CASE CONFIGURATION AND MODE

The fundamental of the EUT was investigated under three orthogonal orientations X (Flatbed), Y (Landscape), and Z (Portrait). The Y (Landscape) orientation was determined to be the worst-case orientation.

The worst case position of the EUT was investigated under two configurations: EUT with power supply, EUT with earphones. The EUT with power supply configuration was determined to be worst-case configurations; therefore, all final tests were performed on the EUT with power supply.

In addition, Tag and Reader, tag with CE mode mode were investigated with Type A, B and F with data rates, such as 106Kbp/s, 212Kbp/s, 424Kbp/s and 848Kbp/s and ISO 15693 configuration to determine the worst case based on the highest power and spurious emissions. Type A 848Kbp/s Reader mode was determined to be the worst case and therefore Type A was selected for all final tests.

For below 30MHz testing, investigation was done on three antenna orientations: RX antenna Face-on, Face-off and horizontal (parallel to ground). The worst-case configurations were determined on RX antenna Face-on and Face-off; therefore, all final tests were performed using these two orientations.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 meter open area test site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

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6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
Laptop	Apple	Macbook Air	C2QLN093FKYR	FCC DoC
Laptop AC/DC adapter	Apple	Magsafe 2	A1436	NA
EUT AC Adapter	Apple	A2305	D292365CDYADHLHC3	NA

I/O CABLES

I/O Cable List						
Cable No	**Port**	**# of identical ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	AC	1	AC	Un-Shielded	1	N/A

TEST SETUP

The EUT is installed in a host laptop computer during the tests. Test software exercised the radio card.

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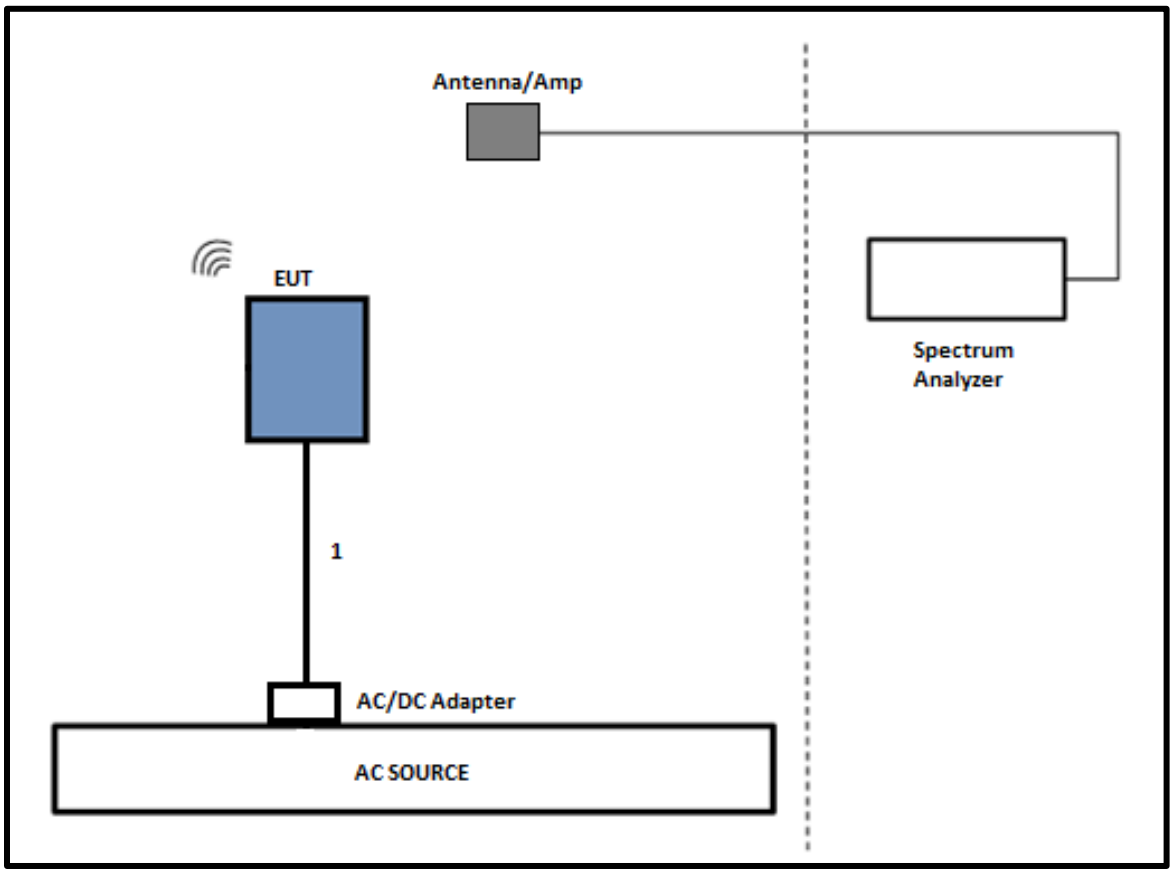
SETUP DIAGRAM FOR RADIATED TESTS



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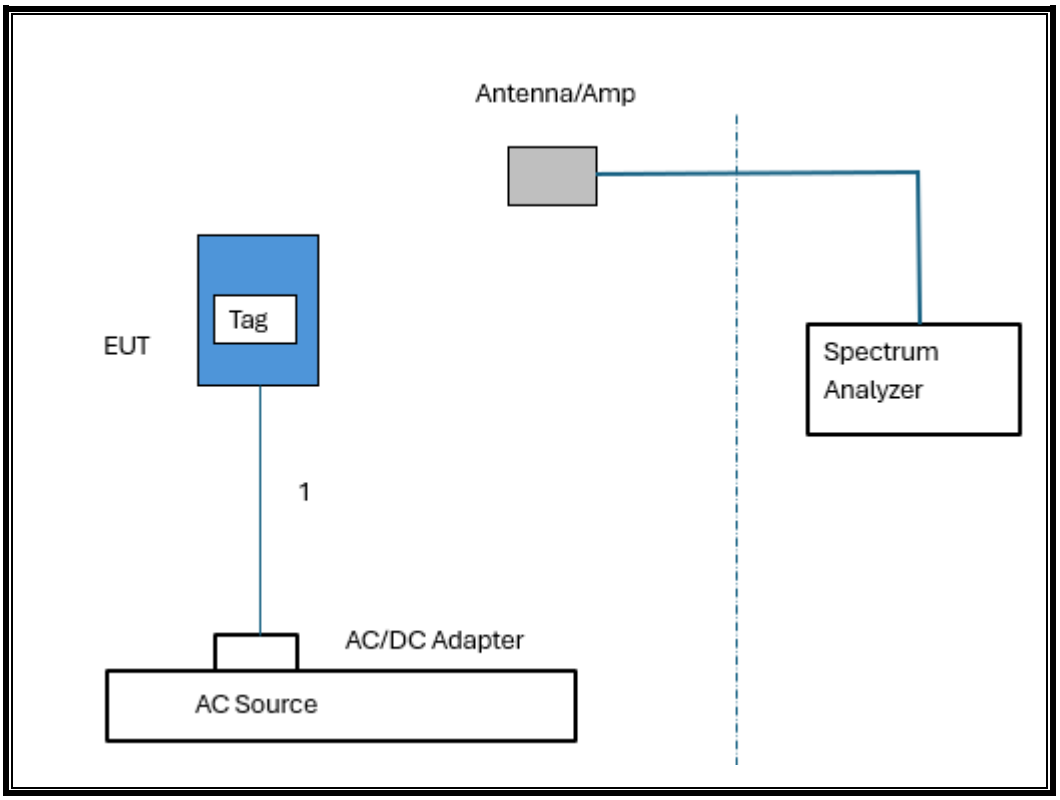
SETUP DIAGRAM FOR RADIATED TESTS (EUT with Tag Mode)



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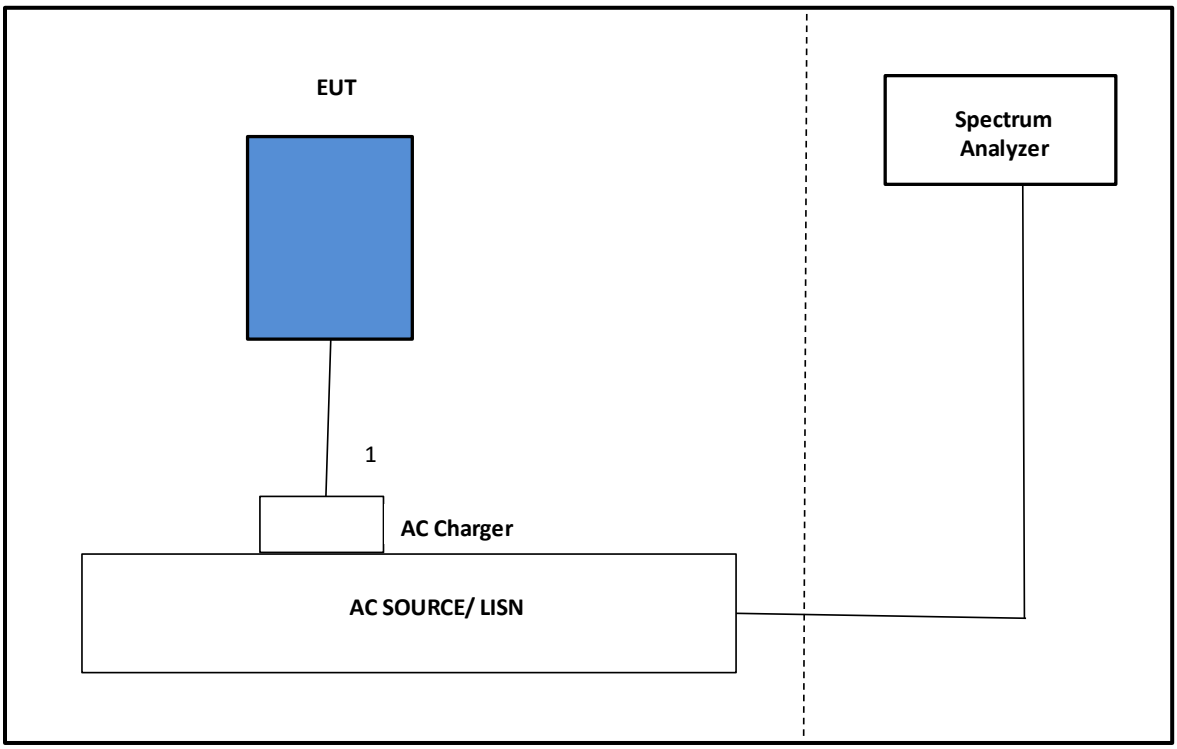
SETUP DIAGRAM FOR LINE CONDUCTED TESTS



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7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment were utilized for the tests documented in this report:

TEST EQUIPMENT LIST					
Description	**Manufacturer**	**Model**	**ID Num**	**Cal Due**	**Last Cal**
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	E4440A	79602	2026-01-31	2025-01-24
Antenna, Passive Loop 30Hz to 1MHz	Electro-Metrics	EM-6871	170014	2025-08-31	2023-08-31
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170016	2025-08-31	2023-08-31
Link File, @3m, 9kHz-1000MHz Hybrid Path Loss	UL-FR1	Port 0 Factors	224489	2026-05-31	2024-05-14
Antenna, BroadBand Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	80508	2025-06-30	2023-06-15
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223460	2026-02-28	2025-02-28
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	89097	2025-10-31	2025-04-03
Near Field Probes	Electro Metrics	EM-6992	N/A	N/A	N/A

AC Line Conducted					
Description	**Manufacturer**	**Model**	**ID Num**	**Cal Due**	**Last Cal**
EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESR	17646	2026-02-28	2025-02-18
LISN for Conducted Emissions CISPR-16	FISCHER CUSTOM COMMUNICATIONS	FCC-LISN-50/250-25-2-01-480V	175765	2026-01-31	2025-01-28
Transient Limiter	TE	TBFL1	207996	2025-09-30	2024-09-24

UL AUTOMATION SOFTWARE			
Radiated Software	UL	UL EMC	Ver 9.5, Mar 6, 2020
Conducted Software	UL	UL EMC	2020.2.26
AC Line Conducted Software	UL	UL EMC	Ver 9.5, February 21, 2020

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8. OCCUPIED BANDWIDTH

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 10kHz. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

Note: Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW

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RESULTS

99% and 20dB BW

Primary Antenna

Type A (Reader Mode)

Mode Kbps	Frequency (MHz)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
848	13.56	21.300	25.01

Type A (CE Mode)

Mode Kbps	Frequency (MHz)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
848	13.56	22.763	25.73

Type A (Tag Mode)

Mode Kbps	Frequency (MHz)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
848	13.56	21.286	24.96

Secondary Antenna

Type A (Reader Mode)

Mode Kbps	Frequency (MHz)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
848	13.56	21.221	24.94

Type A (Reader Mode)

Mode Kbps	Frequency (MHz)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
848	13.56	21.320	25.00

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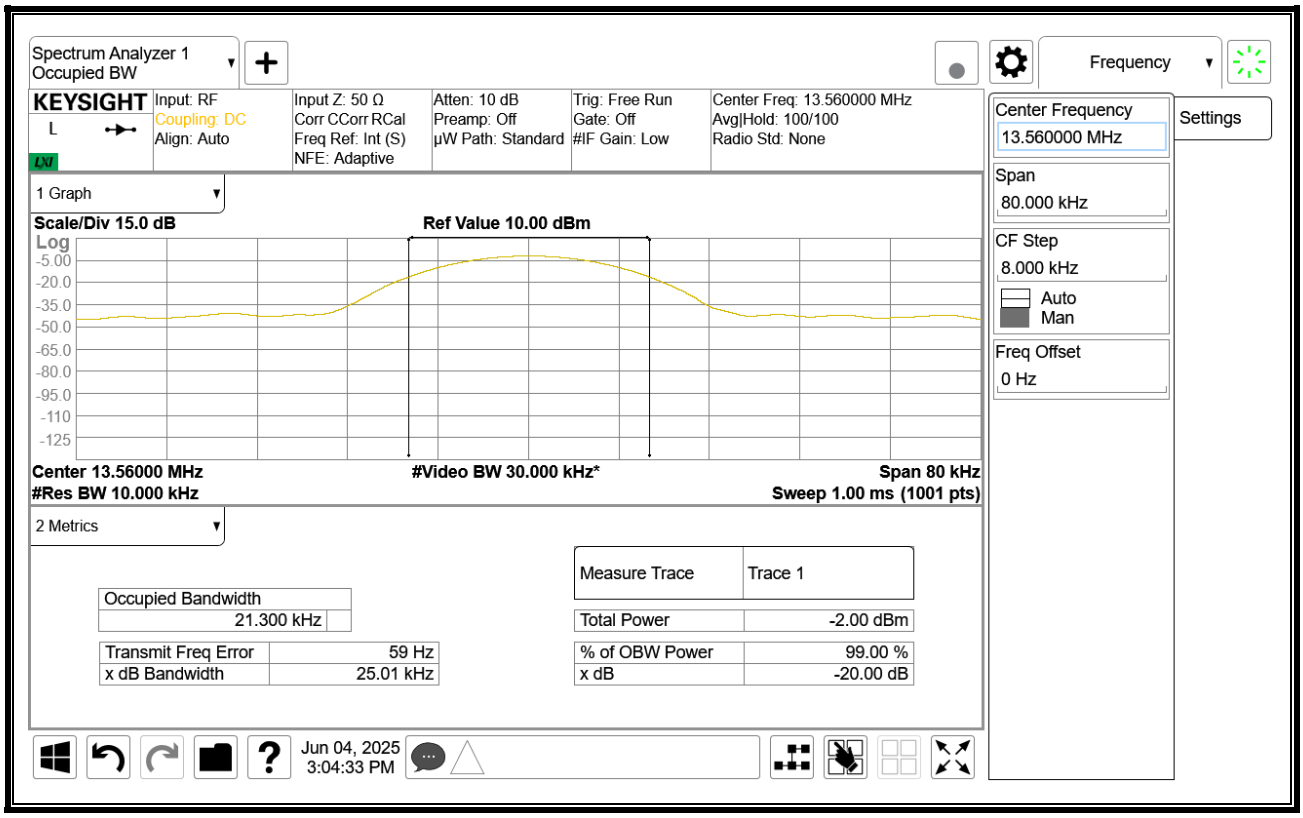
8.1. PRIMARY ANTENNA

Type A (Reader Mode),848Kbps



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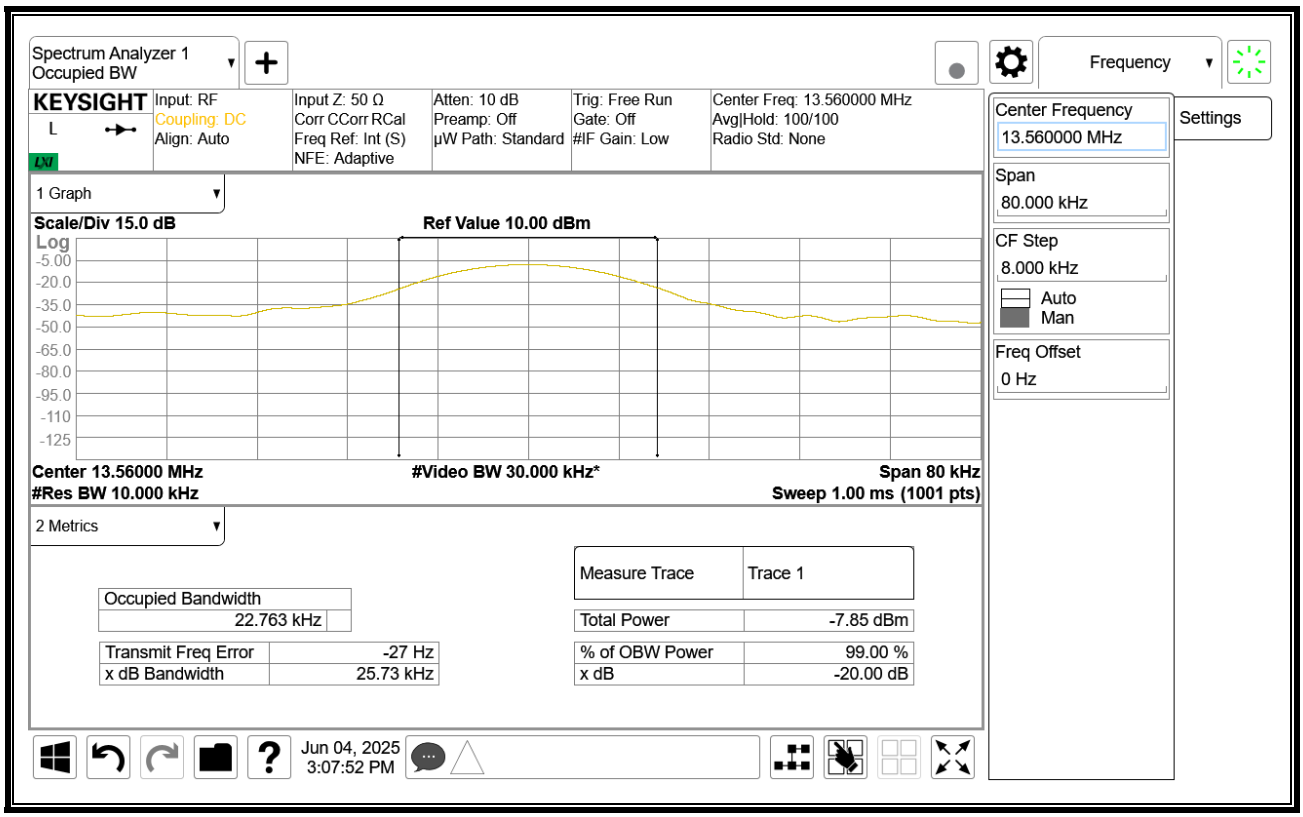
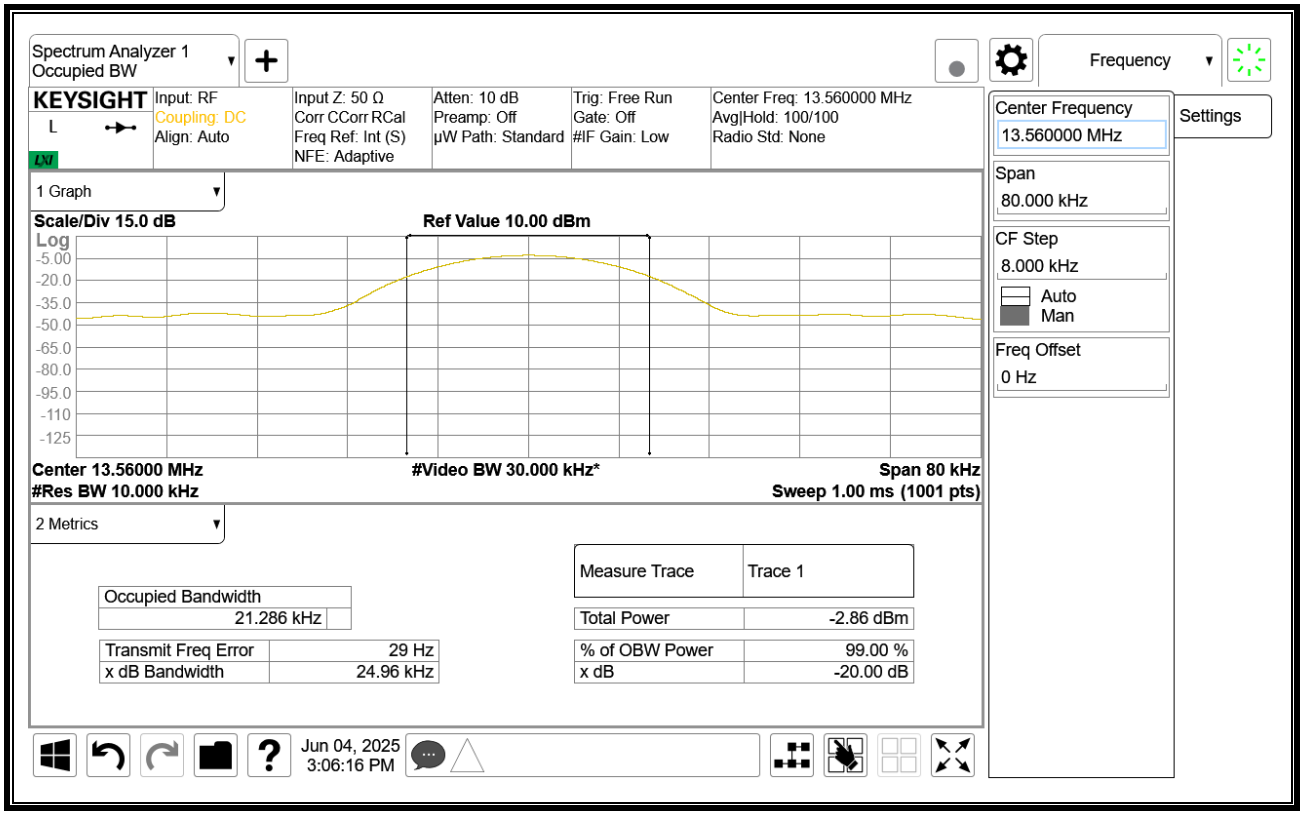
Type A (CE Mode),848Kbps



Type A (Tag Mode),848Kbps



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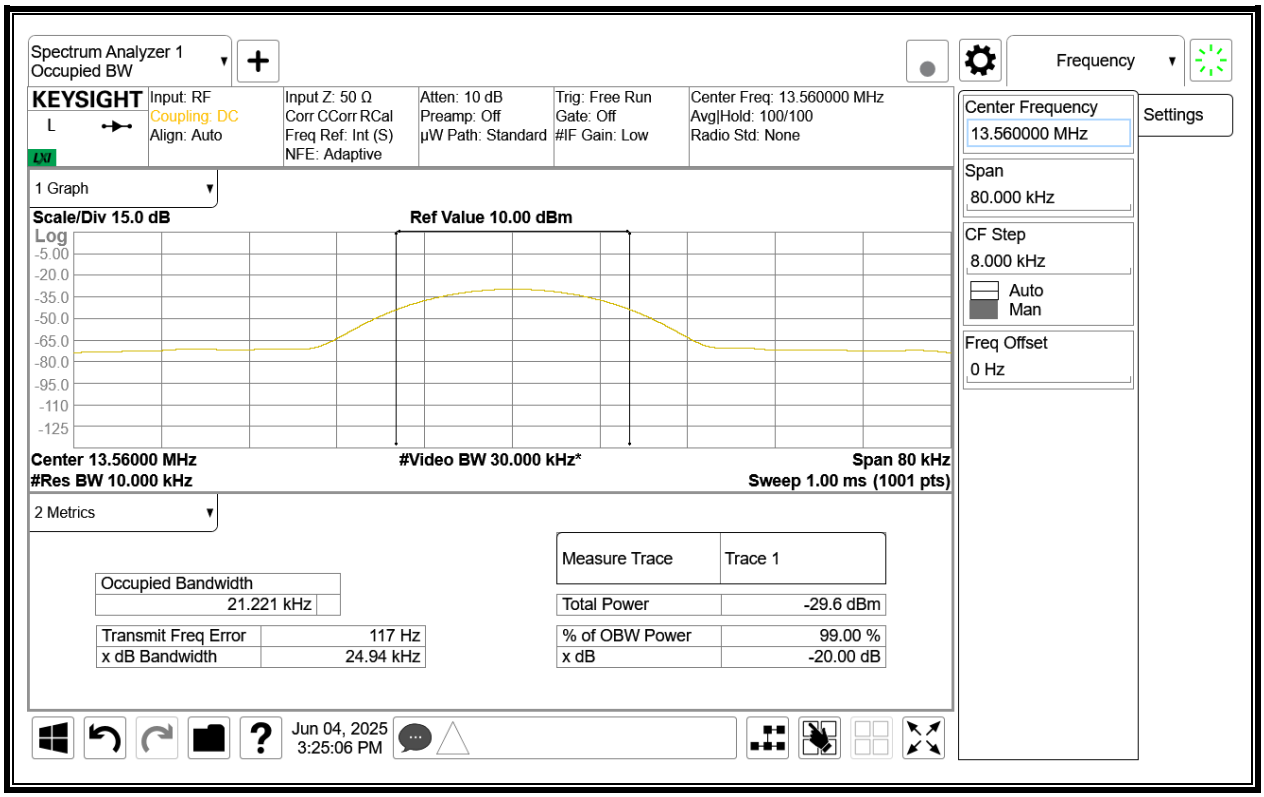
8.2. SECONDARY ANTENNA

Type A (Reader Mode),848Kbps



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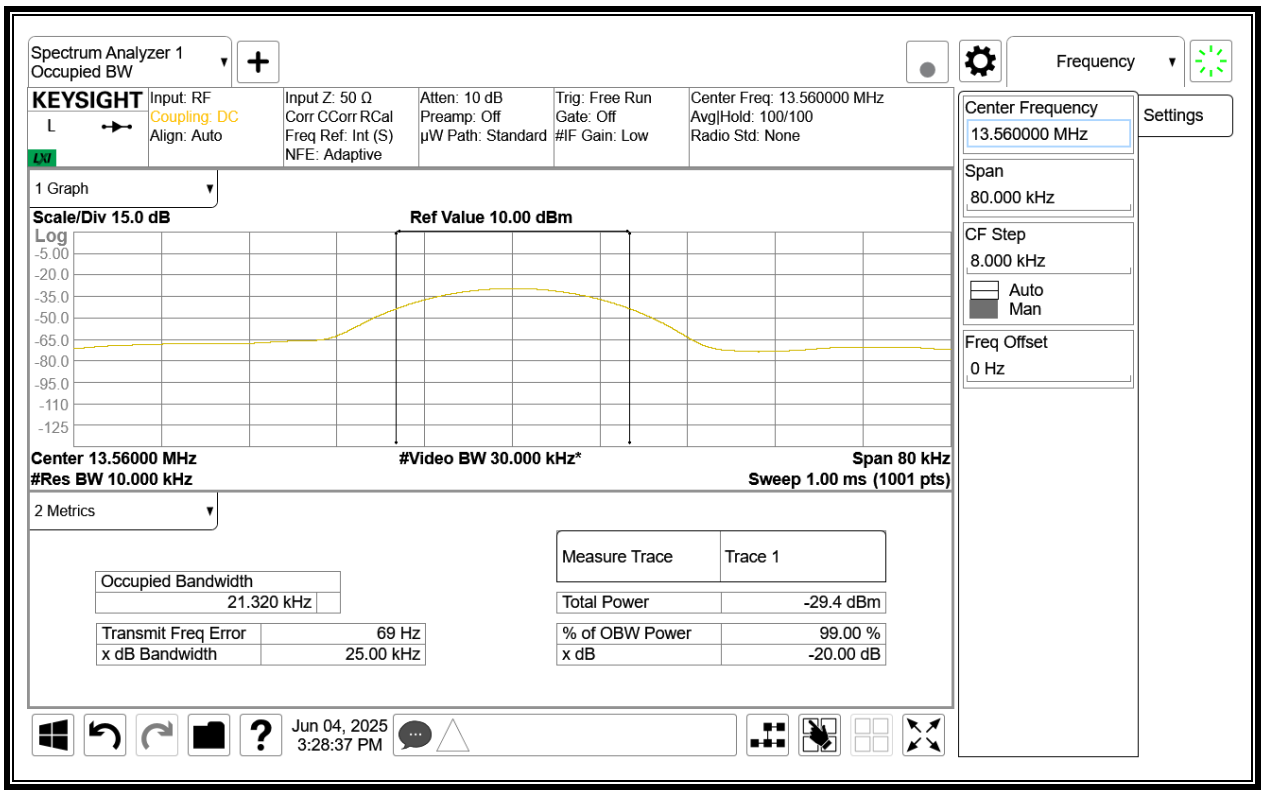
Type A (Tag Mode),848Kbps



9. RADIATED EMISSION TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMIT

§15.225
IC RSS-210, Annex B.6
IC RSS-GEN, Section 8.9 (Transmitter)

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/ meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110– 14.010 MHz and shall not exceed the general radiated emission limits in § 15.209 as follows:
§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Limits for radiated disturbance of an intentional radiator

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Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.
§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

Formula for converting the filed strength from uV/m to dBuV/m is:
Limit (dBuV/m) = 20 log limit (uV/m)

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In addition:

§15.209 (d) The emission limits shown the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

§15.209 (d) The provisions in §§ 15.225, measuring emissions at distances other than the distances specified in the above table, determining the frequency range over which radiated emissions are to be measured, and limiting peak emissions apply to all devices operated under this part.

TEST PROCEDURE

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024

EUT is an intentional radiator that incorporates a digital device, the highest fundamental frequency generated or used in the device is 13.56 MHz; therefore, the frequency range was investigated from 0.15 MHz to the 10th harmonic of the highest fundamental frequency, or 1000 MHz, whichever is greater.

RESULTS

Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as report in the table) using free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

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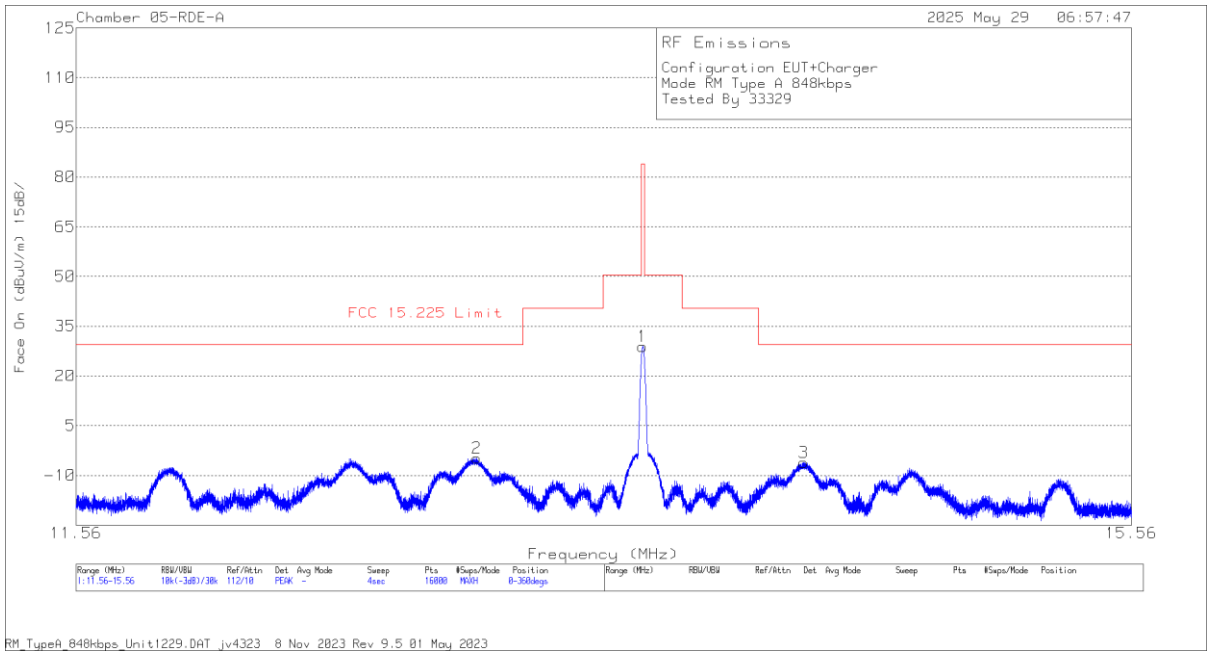
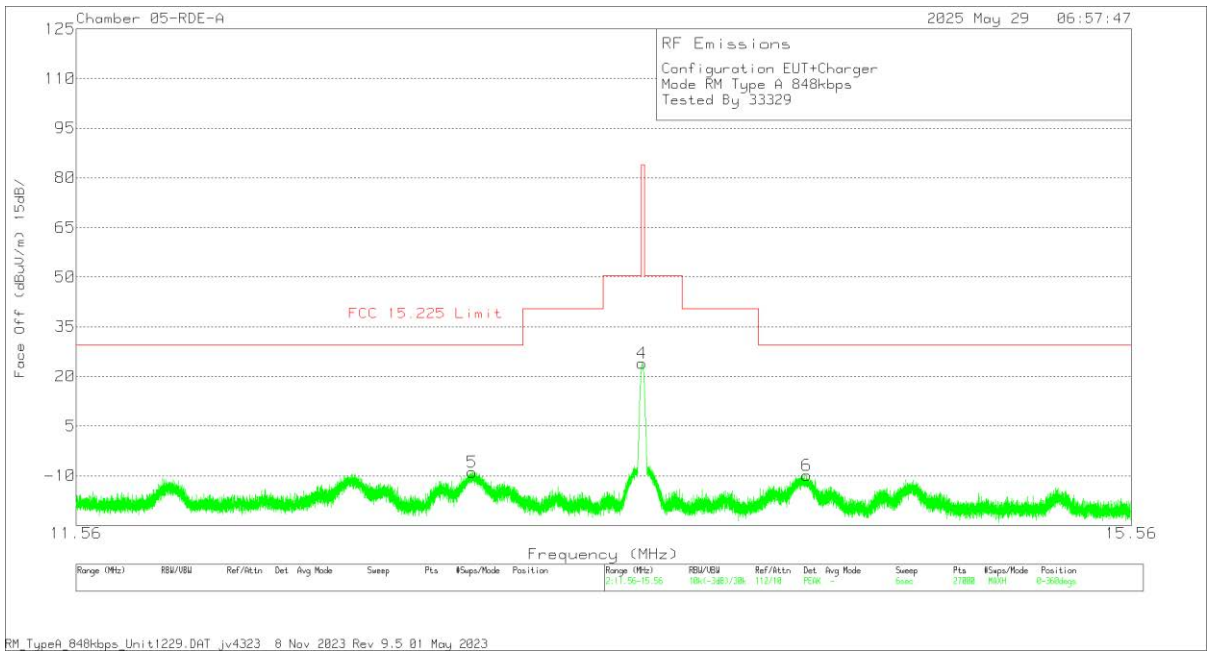
9.2. PRIMARY ANTENNA FUNDAMENTAL AND SPURIOUS EMISSIONS (0.15 - 30 MHz), EUT WITH AC/DC ADAPTER

9.2.1. READER MODE, TYPE A 848kbps

FUNDAMENTAL

ANTENNA LOOP FACE ON and FACE OFF





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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)	Polarity
1	13.5599	67.26	Pk	34.3	-32.6	-40	28.96	84	-55.04	0-360	Face-On
2	12.9405	33.76	Pk	34.4	-32.9	-40	-4.74	29.54	-34.28	0-360	Face-Off
3	14.1873	32.12	Pk	34.2	-32.5	-40	-6.18	29.54	-35.72	0-360	Face-On
4	13.5576	62.31	Pk	34.3	-32.6	-40	24.01	84	-59.99	0-360	Face-Off
5	12.9238	29.45	Pk	34.4	-32.8	-40	-8.95	29.54	-38.49	0-360	Face-On
6	14.2015	28.37	Pk	34.2	-32.5	-40	-9.93	29.54	-39.47	0-360	Face-Off

Pk - Peak detector

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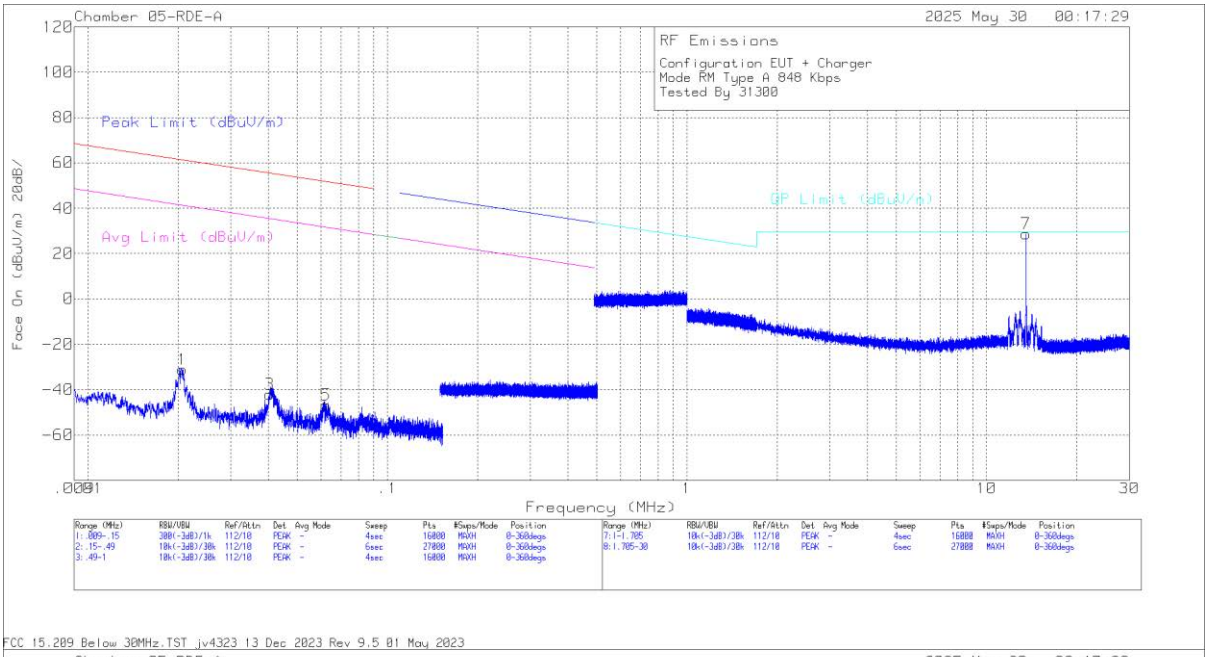
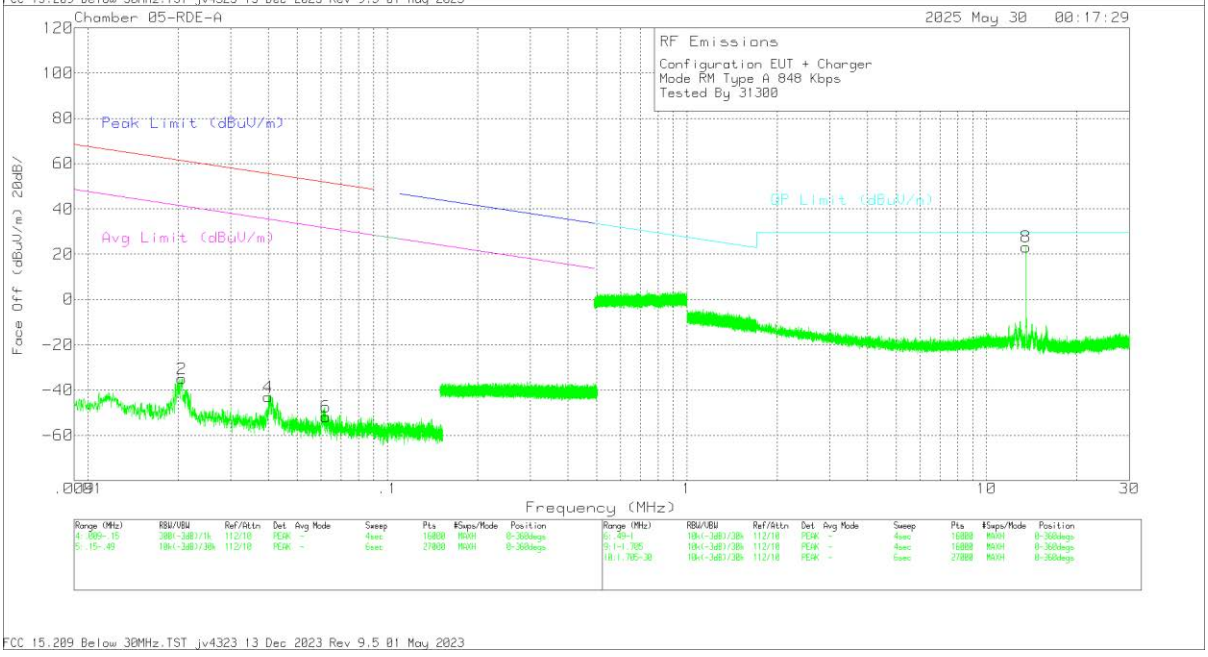
SPURIOUS EMISSION

ANTENNA LOOP FACE ON AND OFF





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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.0207	21.92	Pk	59	-32.1	-80	-31.18	61.26	-92.44	41.26	-72.44	0-360	Face-On
2	.0206	17.93	Pk	59	-32	-80	-35.07	61.31	-96.38	41.31	-76.38	0-360	Face-Off
3	.0403	13.2	Pk	57.2	-32.5	-80	-42.1	55.47	-97.57	35.47	-77.57	0-360	Face-On
4	.0401	12.19	Pk	57.2	-32.5	-80	-43.11	55.52	-98.63	35.52	-78.63	0-360	Face-Off
5	.0622	10.08	Pk	56.2	-33	-80	-46.72	51.71	-98.43	31.71	-78.43	0-360	Face-On
6	.0624	5	Pk	56.1	-33	-80	-51.9	51.69	-103.59	31.69	-83.59	0-360	Face-Off

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
7	13.56*	66.95	Pk	34.3	-32.6	-40	28.65	29.5	-.85	0-360	Face-On
8	13.56*	61.37	Pk	34.3	-32.6	-40	23.07	29.5	-6.43	0-360	Face-Off

Pk - Peak detector
*Fundamental Frequency

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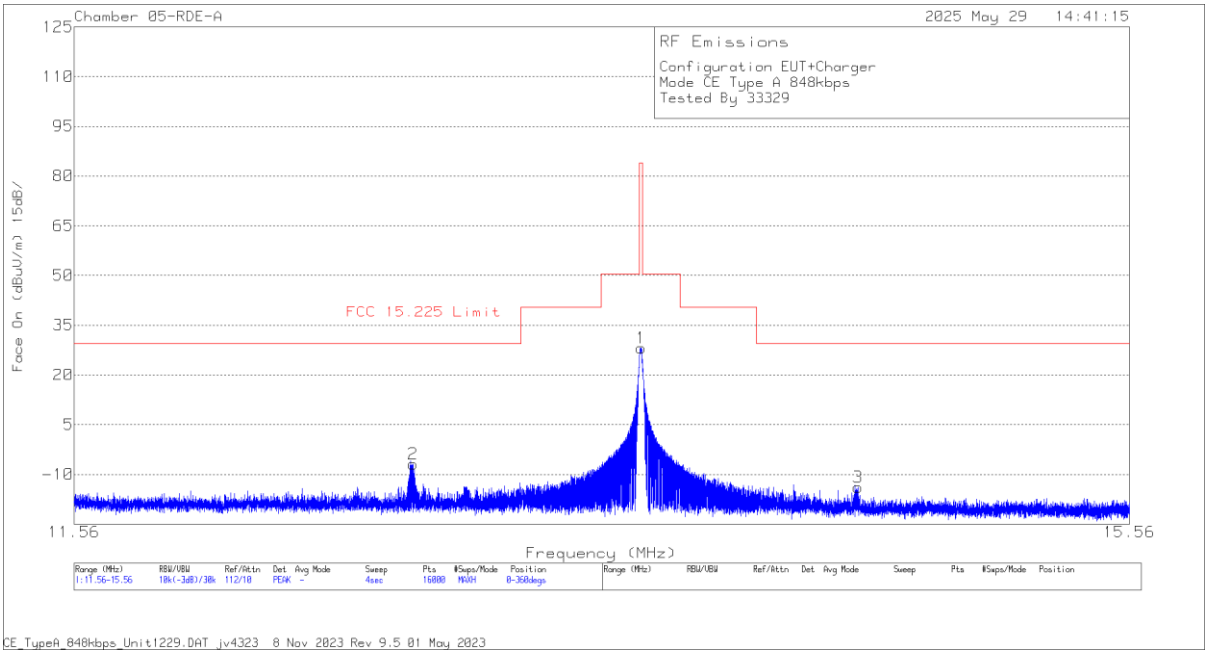
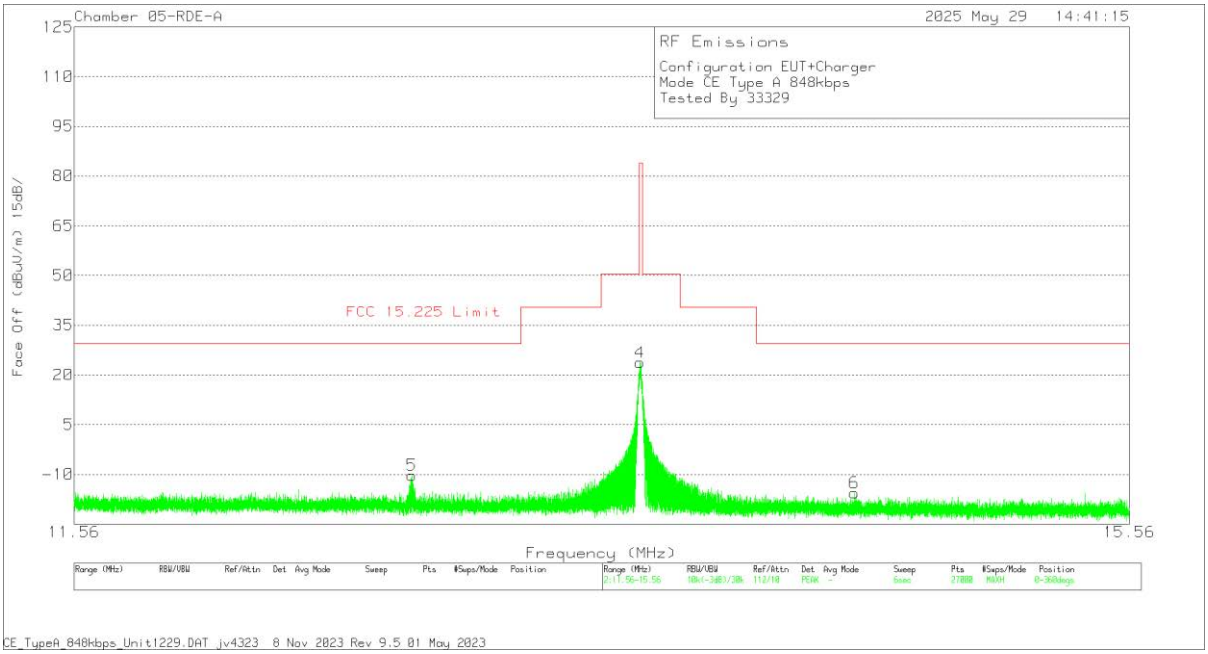
9.2.2. CE MODE, TYPE A 848kbps

FUNDAMENTAL

ANTENNA LOOP FACE ON & OFF





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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)	Polarity
1	13.5613	66.49	Pk	34.3	-32.6	-40	28.19	84	-55.81	0-360	Face-On
2	12.7178	31.68	Pk	34.5	-33	-40	-6.82	29.54	-36.36	0-360	Face-Off
3	14.415	24.8	Pk	34.2	-32.8	-40	-13.8	29.54	-43.34	0-360	Face-On
4	13.5573	62	Pk	34.3	-32.6	-40	23.7	84	-60.3	0-360	Face-Off
5	12.7128	28.4	Pk	34.5	-33.1	-40	-10.2	29.54	-39.74	0-360	Face-On
6	14.4	22.84	Pk	34.2	-32.6	-40	-15.56	29.54	-45.1	0-360	Face-Off

Pk - Peak detector

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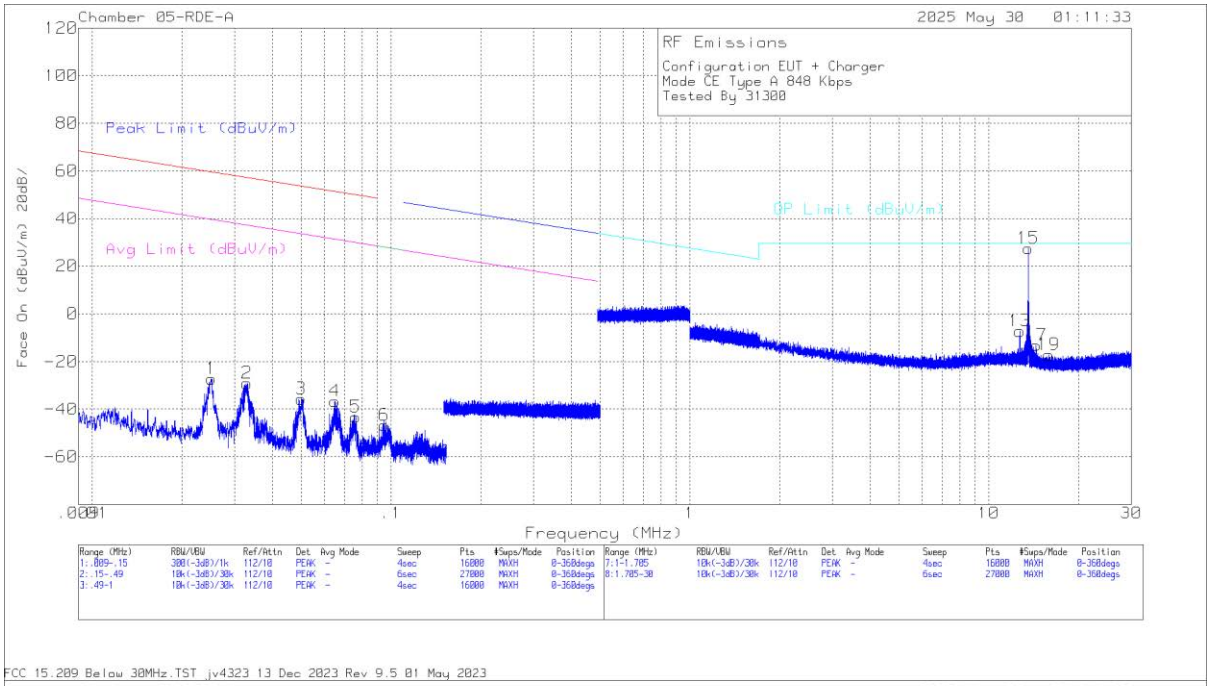
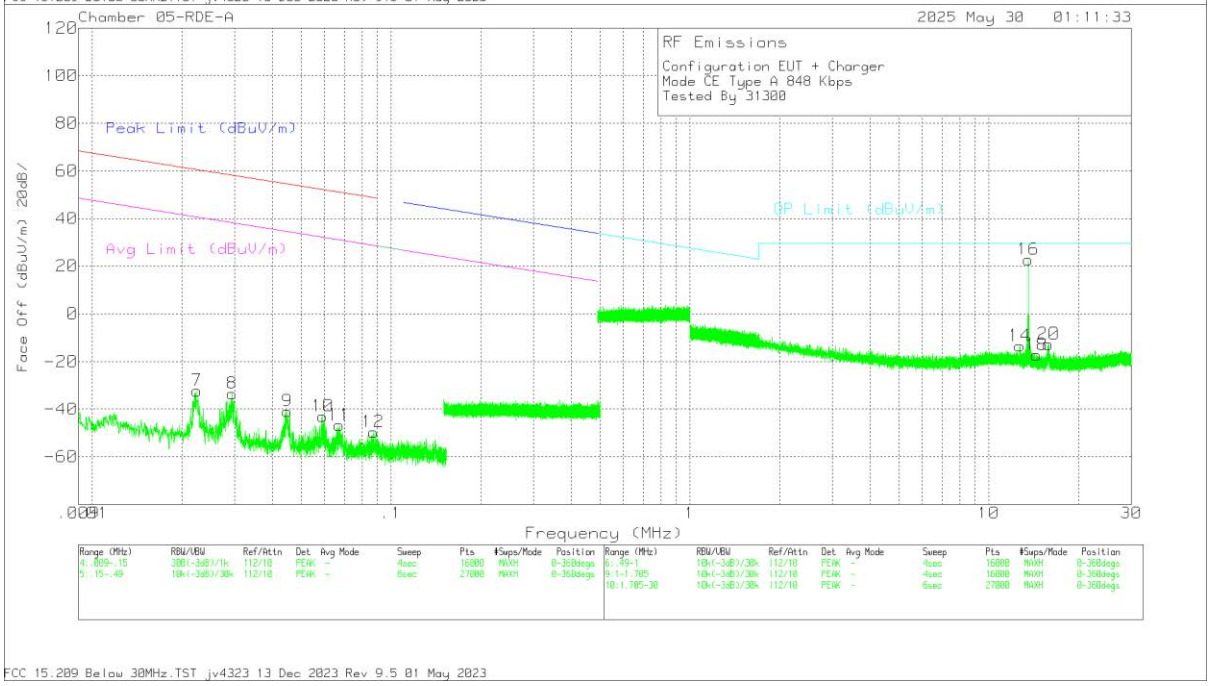
SPURIOUS EMISSION

ANTENNA LOOP FACE ON AND OFF





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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.0251	26.64	Pk	58.5	-32.4	-80	-27.26	59.59	-86.85	39.59	-66.85	0-360	Face-On
2	.0329	25.67	Pk	57.8	-32.6	-80	-29.13	57.23	-86.36	37.23	-66.36	0-360	Face-On
3	.0501	20.48	Pk	57.1	-33.3	-80	-35.72	53.59	-89.31	33.59	-69.31	0-360	Face-On
4	.0649	20.16	Pk	56.1	-32.9	-80	-36.64	51.34	-87.98	31.34	-67.98	0-360	Face-On
5	.0762	13.89	Pk	55.8	-33	-80	-43.31	49.95	-93.26	29.95	-73.26	0-360	Face-On
7	.0224	21.07	Pk	58.8	-32.2	-80	-32.33	60.57	-92.9	40.57	-72.9	0-360	Face-Off
8	.0294	21.16	Pk	58.1	-32.7	-80	-33.44	58.21	-91.65	38.21	-71.65	0-360	Face-Off
9	.045	14.83	Pk	57.2	-32.9	-80	-40.87	54.52	-95.39	34.52	-75.39	0-360	Face-Off
10	.059	13.73	Pk	56.3	-33	-80	-42.97	52.16	-95.13	32.16	-75.13	0-360	Face-Off
11	.0671	10.14	Pk	56	-32.9	-80	-46.76	51.05	-97.81	31.05	-77.81	0-360	Face-Off
12	.0873	7.54	Pk	55.8	-32.9	-80	-49.56	48.77	-98.33	28.77	-78.33	0-360	Face-Off

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
6	.0949	10.56	Pk	55.7	-33	-80	-46.74	28.05	-74.79	0-360	Face-On
13	12.7163	31.25	Pk	34.5	-33	-40	-7.25	29.5	-36.75	0-360	Face-On
14	12.7111	25.11	Pk	34.5	-33.1	-40	-13.49	29.5	-42.99	0-360	Face-Off
*15	13.56	65.75	Pk	34.3	-32.6	-40	27.45	29.5	-2.05	0-360	Face-On
*16	13.5605	61.09	Pk	34.3	-32.6	-40	22.79	29.5	-6.71	0-360	Face-Off
17	14.3994	25.27	Pk	34.2	-32.6	-40	-13.13	29.5	-42.63	0-360	Face-On
18	14.4518	21.61	Pk	34.2	-33.1	-40	-17.29	29.5	-46.79	0-360	Face-Off
19	15.8719	21.16	Pk	34.1	-32.5	-40	-17.24	29.5	-46.74	0-360	Face-On
20	15.8488	25.6	Pk	34.1	-32.5	-40	-12.8	29.5	-42.3	0-360	Face-Off

Pk - Peak detector
*Fundamental Frequency

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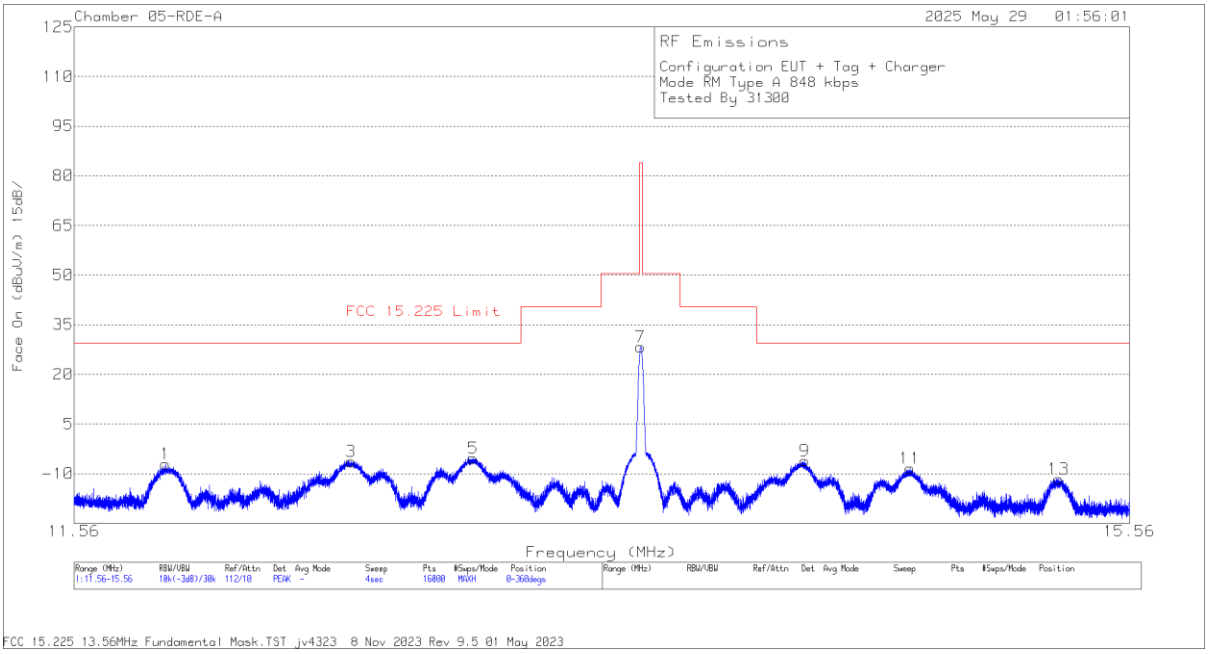
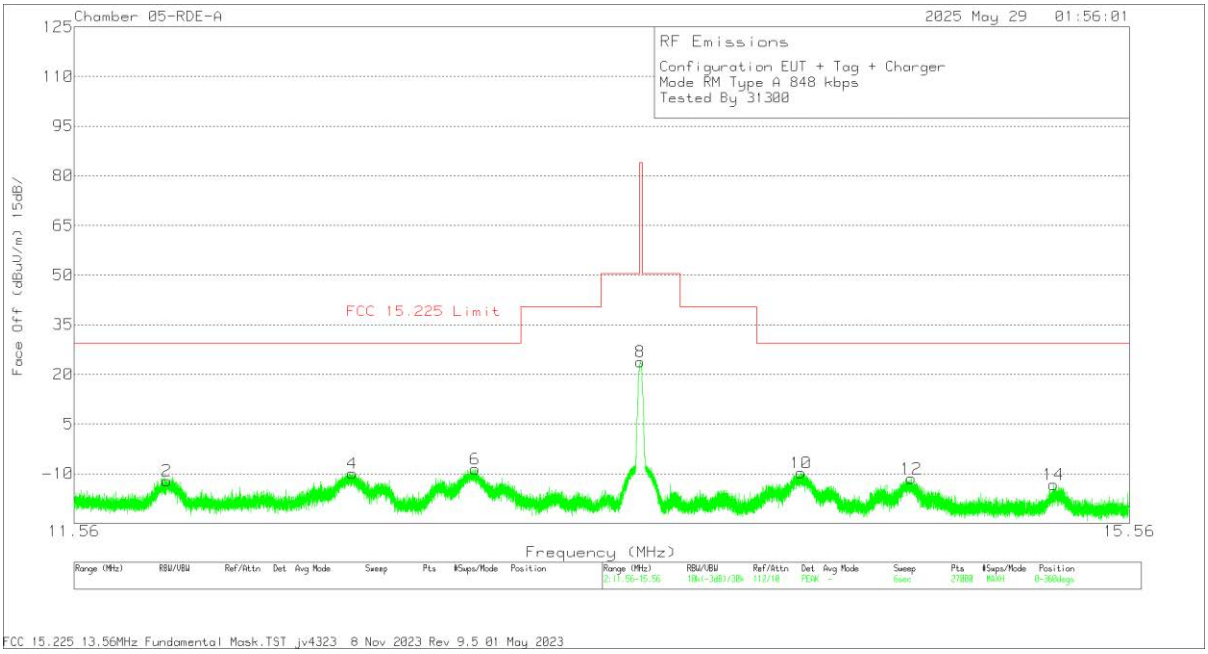
9.2.3. Tag MODE, TYPE A 848kbps

FUNDAMENTAL

ANTENNA LOOP FACE ON AND OFF





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Trace Markers

Markers	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)	Polarity
1	11.8603	30.91	Pk	34.7	-32.7	-40	-7.09	29.54	-36.63	0-360	Face-On
2	11.8655	25.88	Pk	34.7	-32.7	-40	-12.12	29.54	-41.66	0-360	Face-Off
3	12.4975	31.92	Pk	34.5	-32.7	-40	-6.28	29.54	-35.82	0-360	Face-On
4	12.5016	28.22	Pk	34.5	-32.7	-40	-9.98	29.54	-39.52	0-360	Face-Off
5	12.9345	32.97	Pk	34.4	-32.8	-40	-5.43	29.54	-34.97	0-360	Face-On
6	12.941	29.84	Pk	34.4	-32.9	-40	-8.66	29.54	-38.2	0-360	Face-Off
7	13.5596	66.7	Pk	34.3	-32.6	-40	28.4	84	-55.6	0-360	Face-Off
8	13.5577	62.13	Pk	34.3	-32.6	-40	23.83	84	-60.17	0-360	Face-On
9	14.1998	32.15	Pk	34.2	-32.5	-40	-6.15	29.54	-35.69	0-360	Face-Off
10	14.1845	28.5	Pk	34.2	-32.5	-40	-9.8	29.54	-39.34	0-360	Face-On
11	14.627	30.17	Pk	34.2	-32.8	-40	-8.43	29.54	-37.97	0-360	Face-On
12	14.6334	27.09	Pk	34.2	-32.8	-40	-11.51	29.54	-41.05	0-360	Face-Off
13	15.253	27.02	Pk	34.1	-32.7	-40	-11.58	29.54	-41.12	0-360	Face-Off
14	15.2303	25.32	Pk	34.1	-32.7	-40	-13.28	29.54	-42.82	0-360	Face-On

Pk - Peak detector

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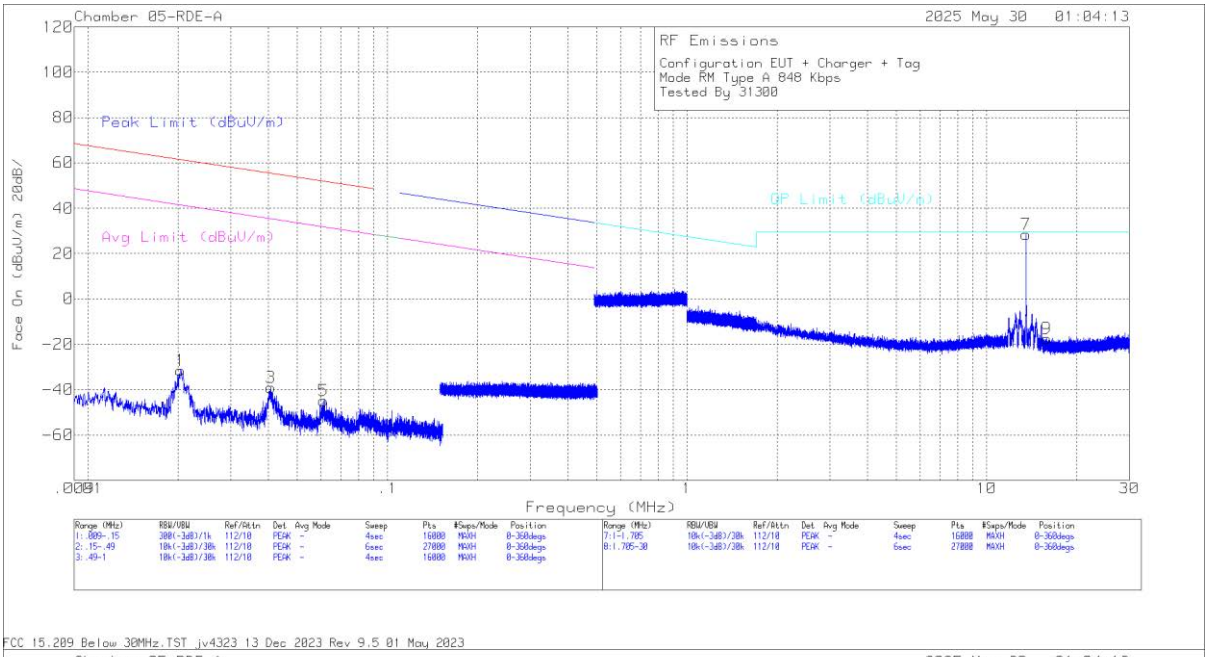
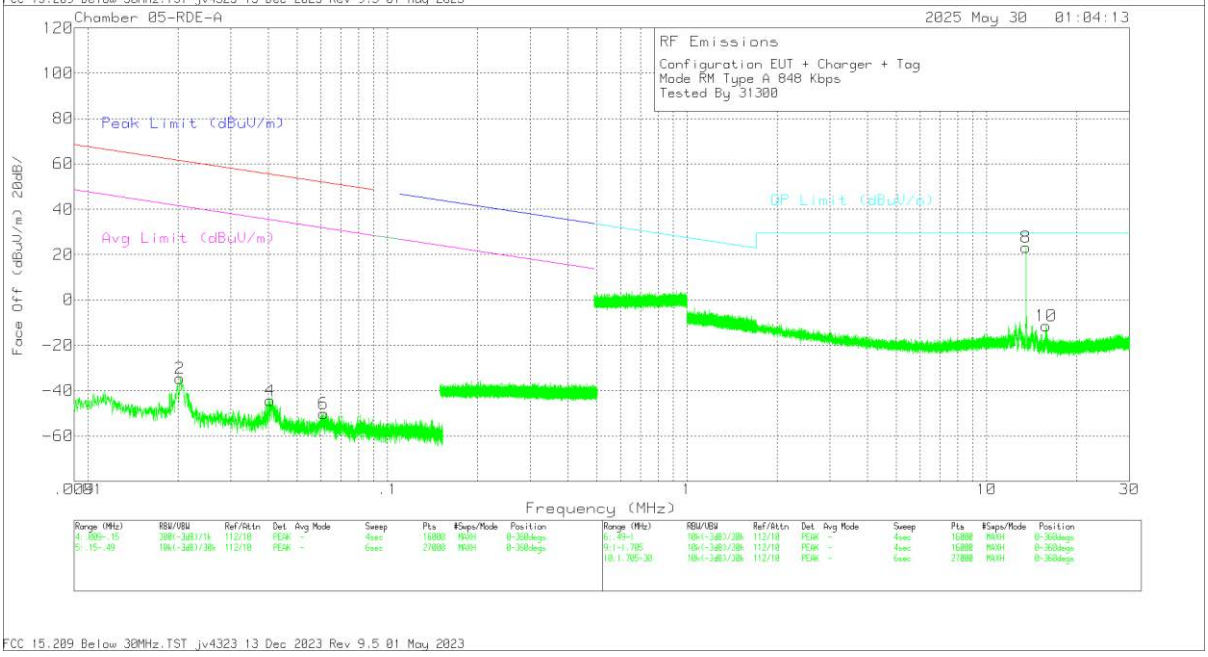
SPURIOUS EMISSION

ANTENNA LOOP FACE ON AND OFF





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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.0204	21.5	Pk	59	-32	-80	-31.5	61.4	-92.9	41.4	-72.9	0-360	Face-On
2	.0203	18.32	Pk	59	-32	-80	-34.68	61.43	-96.11	41.43	-76.11	0-360	Face-Off
3	.0407	16.37	Pk	57.2	-32.6	-80	-39.03	55.39	-94.42	35.39	-74.42	0-360	Face-On
4	.0406	10.83	Pk	57.2	-32.5	-80	-44.47	55.42	-99.89	35.42	-79.89	0-360	Face-Off
5	.0611	12.01	Pk	56.2	-33	-80	-44.79	51.86	-96.65	31.86	-76.65	0-360	Face-On
6	.0613	6.59	Pk	56.2	-33	-80	-50.21	51.84	-102.05	31.84	-82.05	0-360	Face-Off

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
7	*13.56	66.64	Pk	34.3	-32.6	-40	28.34	29.5	-1.16	0-360	Face-On
8	*13.56	61.43	Pk	34.3	-32.6	-40	23.13	29.5	-6.37	0-360	Face-Off
9	15.8546	20.99	Pk	34.1	-32.5	-40	-17.41	29.5	-46.91	0-360	Face-On
10	15.8352	26.96	Pk	34.1	-32.5	-40	-11.44	29.5	-40.94	0-360	Face-Off

Pk - Peak detector
*Fundamental Frequency

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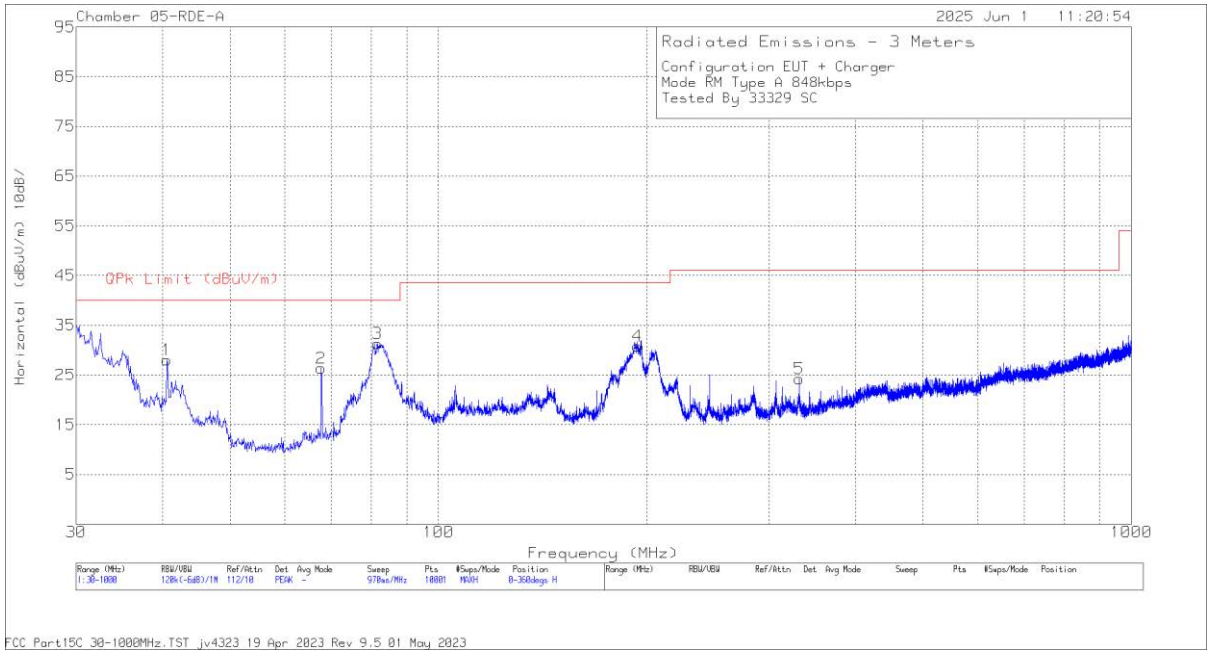
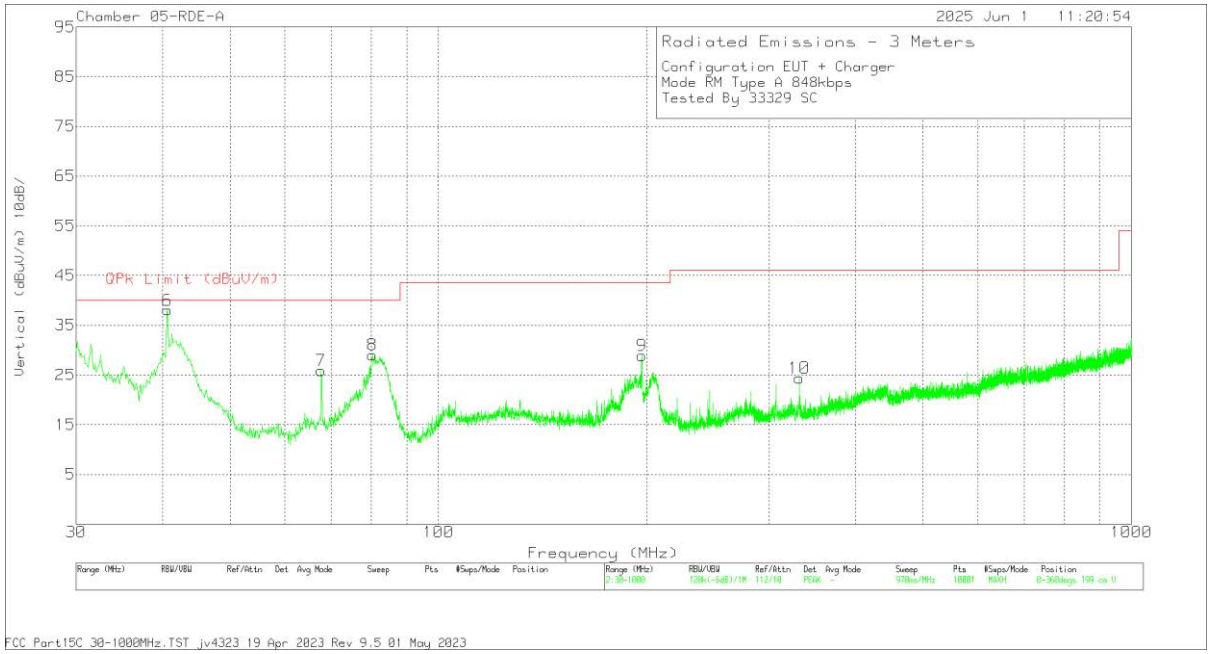
9.3. TX SPURIOUS EMISSION 30 TO 1000 MHz, EUT WITH AC/DC ADAPTER

9.3.1. Type A (Reader Mode), SPURIOUS EMISSION 848Kbps

Horizontal



Vertical



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DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80508 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	40.573	41.65	Pk	19.1	-32.7	28.05	40	-11.95	0-360	300	H
1	43.0238	30.82	Qp	17.3	-32.5	15.62	40	-24.38	36	108	H
2	67.733	44.43	Pk	14	-32.1	26.33	40	-13.67	0-360	199	H
2	69.4498	26.52	Qp	14	-32.2	8.32	40	-31.68	130	300	H
3	81.701	50.32	Pk	13.2	-32.2	31.32	40	-8.68	0-360	199	H
3	82.6549	47.84	Qp	13.1	-32	28.94	40	-11.06	147	192	H
4	193.833	44.74	Pk	17.8	-31.7	30.84	43.52	-12.68	0-360	101	H
4	196.541	45.28	Qp	18.2	-31.6	31.88	43.52	-11.64	90	112	H
5	331.476	35.79	Pk	19.8	-31.3	24.29	46.02	-21.73	0-360	101	H
5	331.606	35.91	Qp	19.8	-31.3	24.41	46.02	-21.61	205	110	H
6	40.67	51.75	Pk	19.1	-32.8	38.05	40	-1.95	0-360	101	V
6	41.4388	44.14	Qp	18.4	-32.8	29.74	40	-10.26	121	104	V
7	67.733	43.98	Pk	14	-32.1	25.88	40	-14.12	0-360	101	V
7	66.5576	24.51	Qp	14	-32.4	6.11	40	-33.89	161	353	V
8	80.343	47.79	Pk	13.3	-32.1	28.99	40	-11.01	0-360	101	V
8	80.9485	39.55	Qp	13.2	-32.1	20.65	40	-19.35	69	100	V
9	196.452	42.55	Pk	18.1	-31.7	28.95	43.52	-14.57	0-360	101	V
9	196.592	41.71	Qp	18.2	-31.6	28.31	43.52	-15.21	209	100	V
10	331.476	35.84	Pk	19.8	-31.3	24.34	46.02	-21.68	0-360	101	V
10	331.732	34.08	Qp	19.8	-31.4	22.48	46.02	-23.54	174	136	V

Pk - Peak detector
Qp – Quasi-Peak detector

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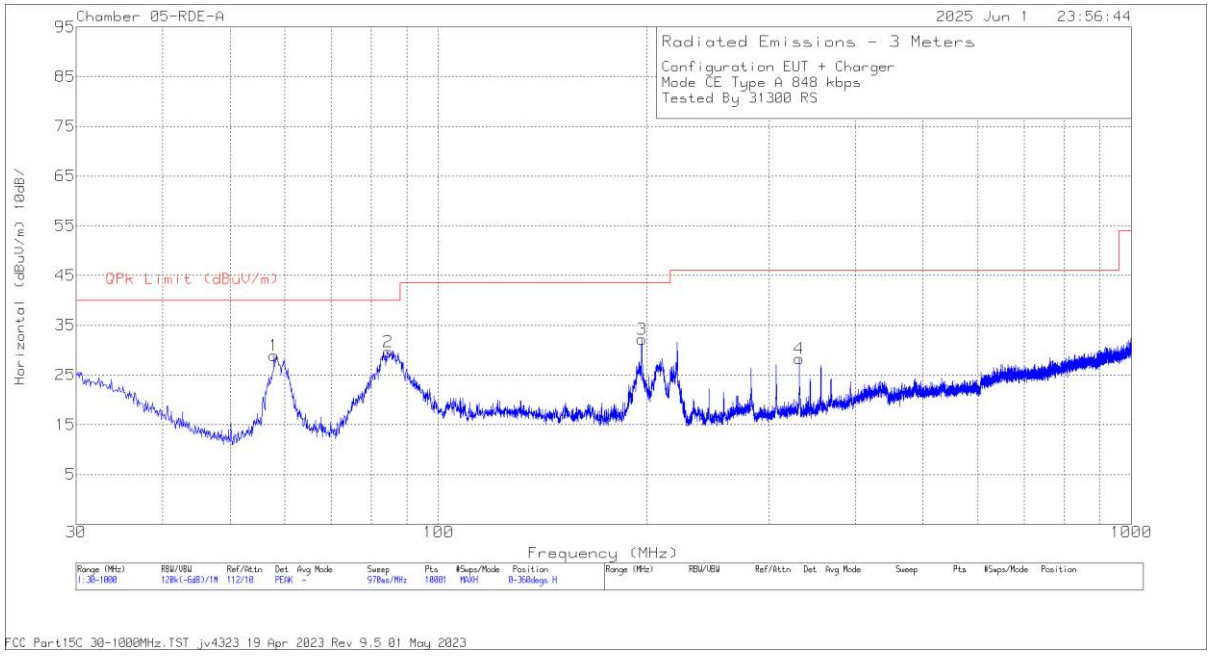
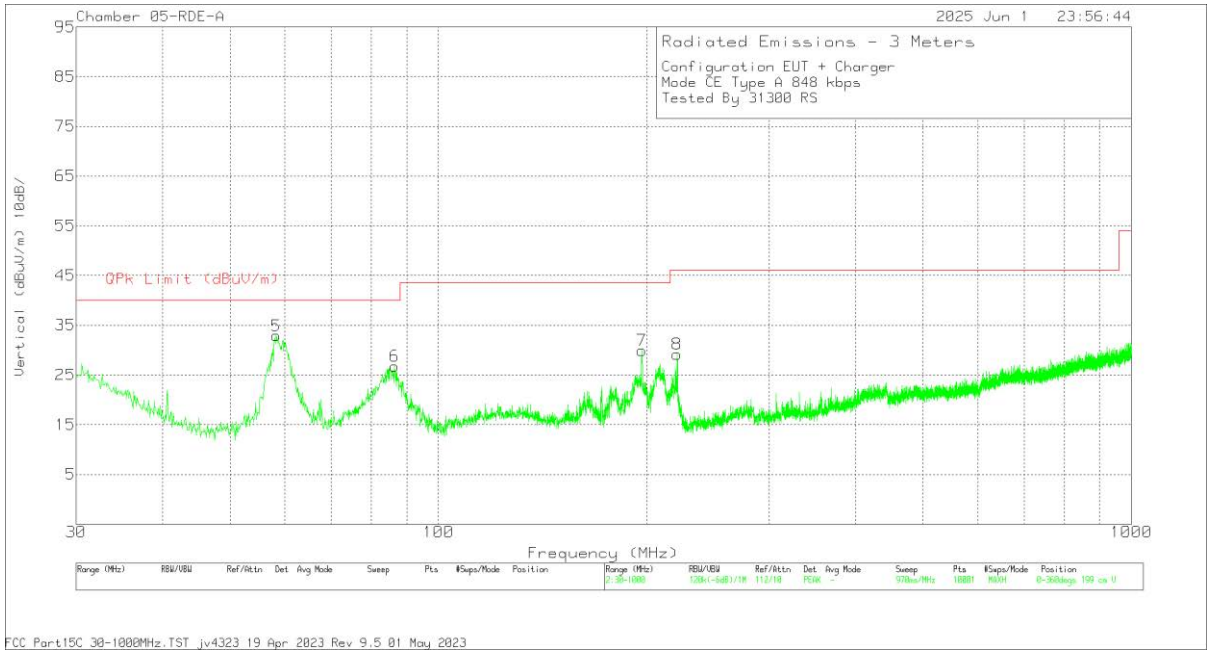
9.3.2. Type A (CE Mode), SPURIOUS EMISSION 848Kbps

Horizontal



Vertical



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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80508 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	57.936	48.08	Pk	13.2	-32.4	28.88	40	-11.12	0-360	399	H
2	84.514	48.31	Pk	13.1	-31.7	29.71	40	-10.29	0-360	199	H
3	196.549	45.63	Pk	18.2	-31.6	32.23	43.52	-11.29	0-360	101	H
4	331.573	39.75	Pk	19.8	-31.3	28.25	46.02	-17.77	0-360	101	H
5	58.324	51.98	Pk	13.2	-32.3	32.88	40	-7.12	0-360	100	V
6	86.454	45.62	Pk	13.2	-32.1	26.72	40	-13.28	0-360	199	V
7	196.549	43.3	Pk	18.2	-31.6	29.9	43.52	-13.62	0-360	100	V
8	221.09	44.06	Pk	16.5	-31.4	29.16	46.02	-16.86	0-360	100	V

Pk - Peak detector

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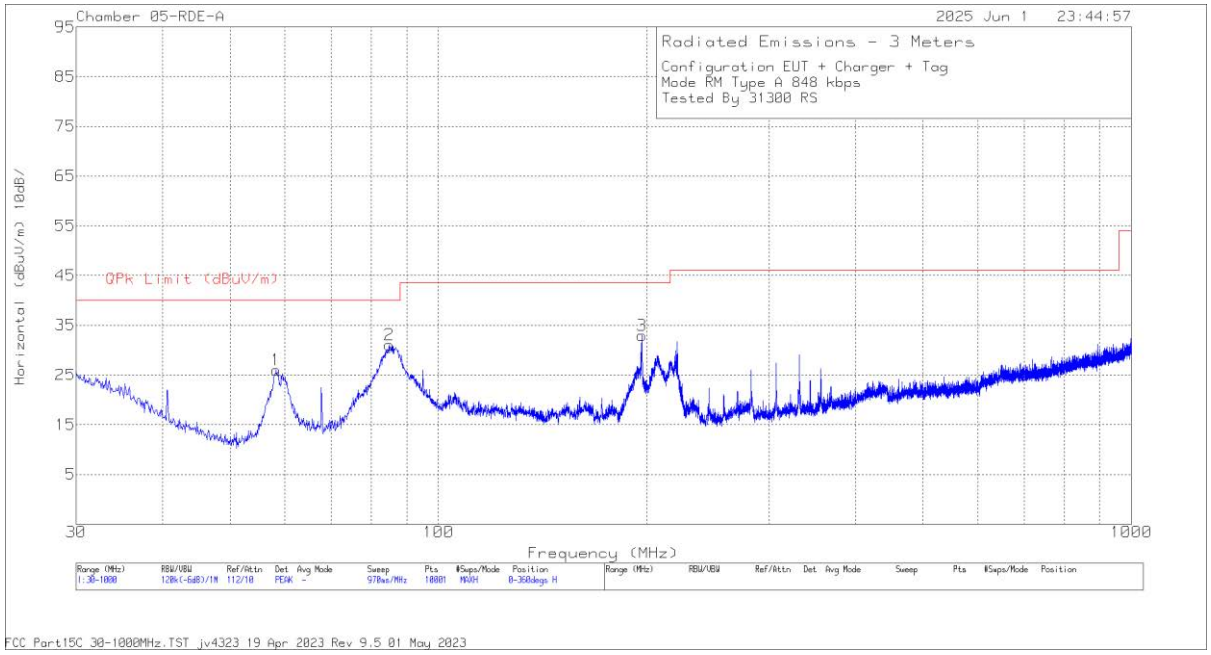
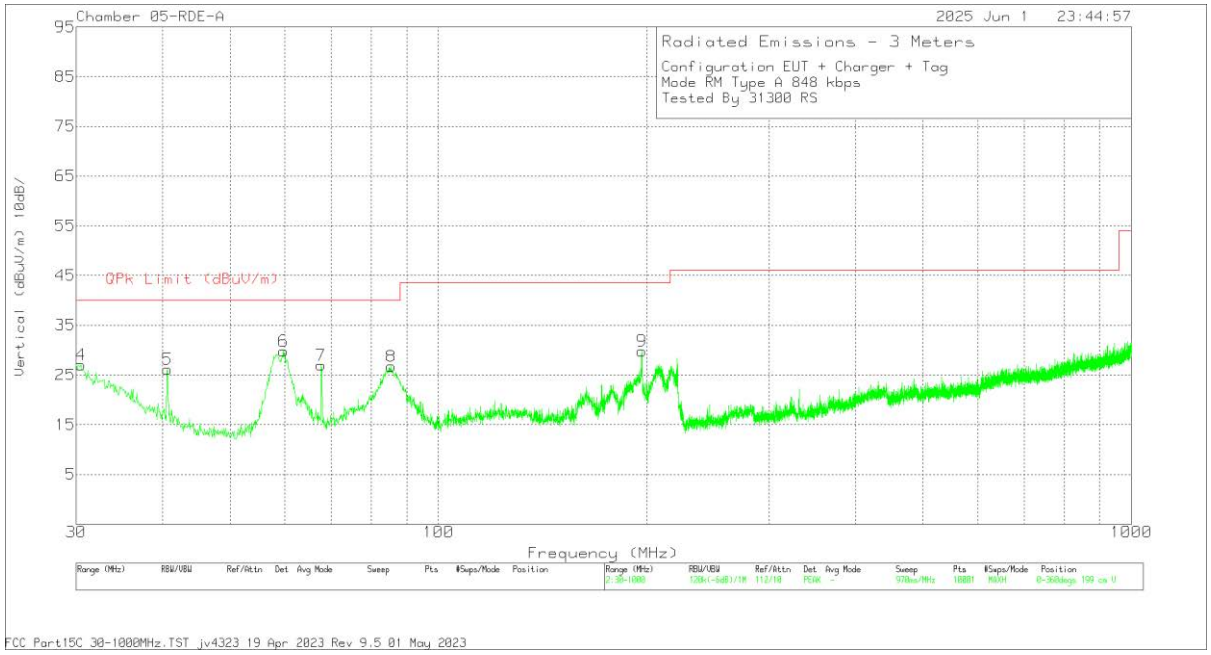
9.3.3. Type A (Tag Mode), SPURIOUS EMISSION 848Kbps

Horizontal



Vertical



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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80508 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	58.324	45.15	Pk	13.2	-32.3	26.05	40	-13.95	0-360	399	H
2	84.999	49.66	Pk	13.1	-31.7	31.06	40	-8.94	0-360	200	H
3	196.452	46.58	Pk	18.1	-31.7	32.98	43.52	-10.54	0-360	99	H
4	30.485	32.85	Pk	26.9	-32.7	27.05	40	-12.95	0-360	199	V
5	40.67	39.82	Pk	19.1	-32.8	26.12	40	-13.88	0-360	100	V
6	59.682	48.75	Pk	13.3	-32.3	29.75	40	-10.25	0-360	100	V
7	67.733	45.05	Pk	14	-32.1	26.95	40	-13.05	0-360	100	V
8	85.484	45.51	Pk	13.1	-31.9	26.71	40	-13.29	0-360	199	V
9	196.452	43.36	Pk	18.1	-31.7	29.76	43.52	-13.76	0-360	100	V

Pk - Peak detector

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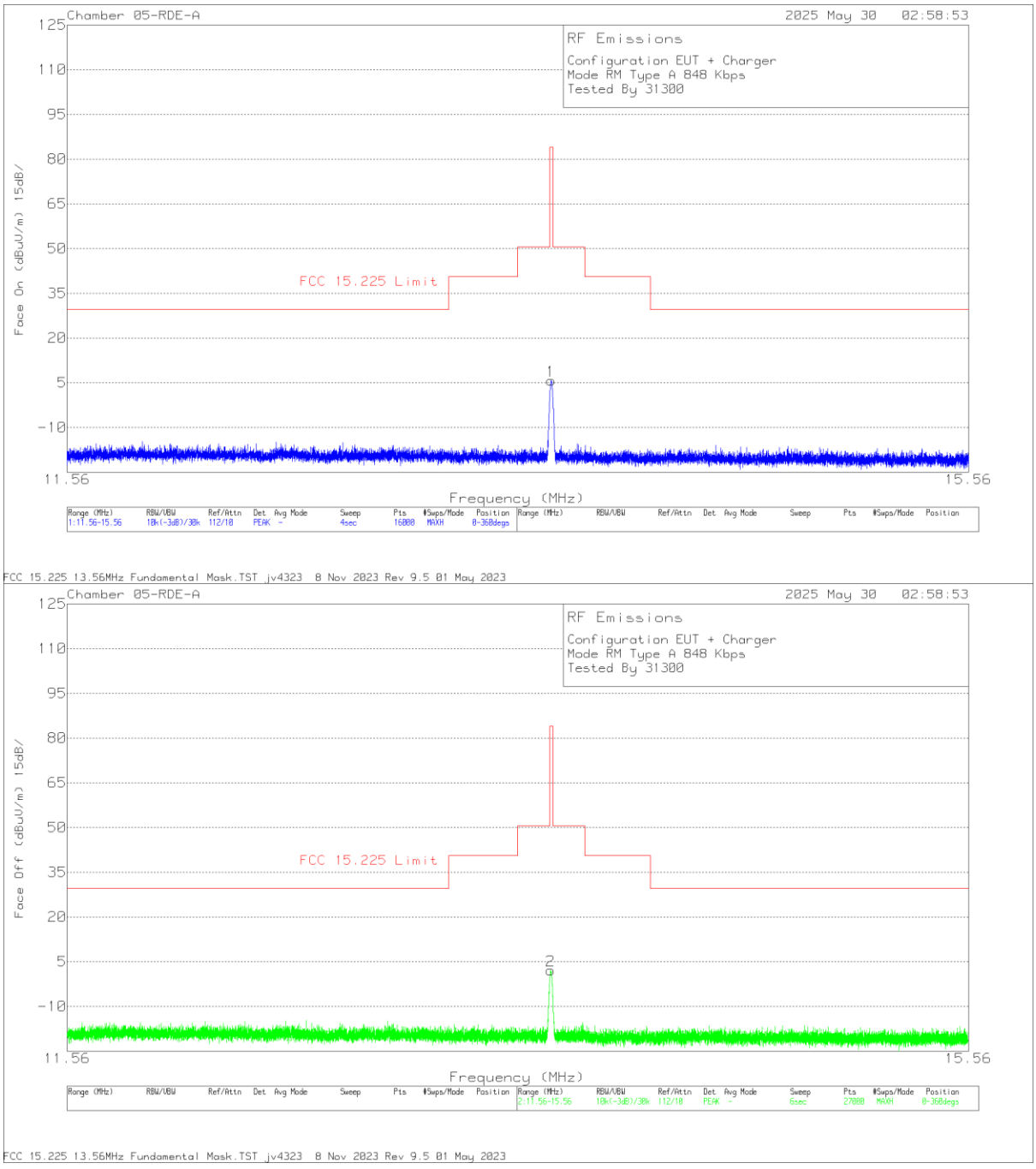
9.4. SECONDARY ANTENNA FUNDAMENTAL AND SPURIOUS EMISSIONS (0.15 - 30 MHz), EUT WITH AC/DC ADAPTER

9.4.1. READER MODE, TYPE A 848Kbps

FUNDAMENTAL

ANTENNA LOOP FACE ON and FACE OFF



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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)	Polarity
1	13.5594	44.31	Pk	34.3	-32.9	-40	5.71	84	-78.29	0-360	Face-On
2	13.557	40.67	Pk	34.3	-32.9	-40	2.07	84	-81.93	0-360	Face-Off

Pk - Peak detector

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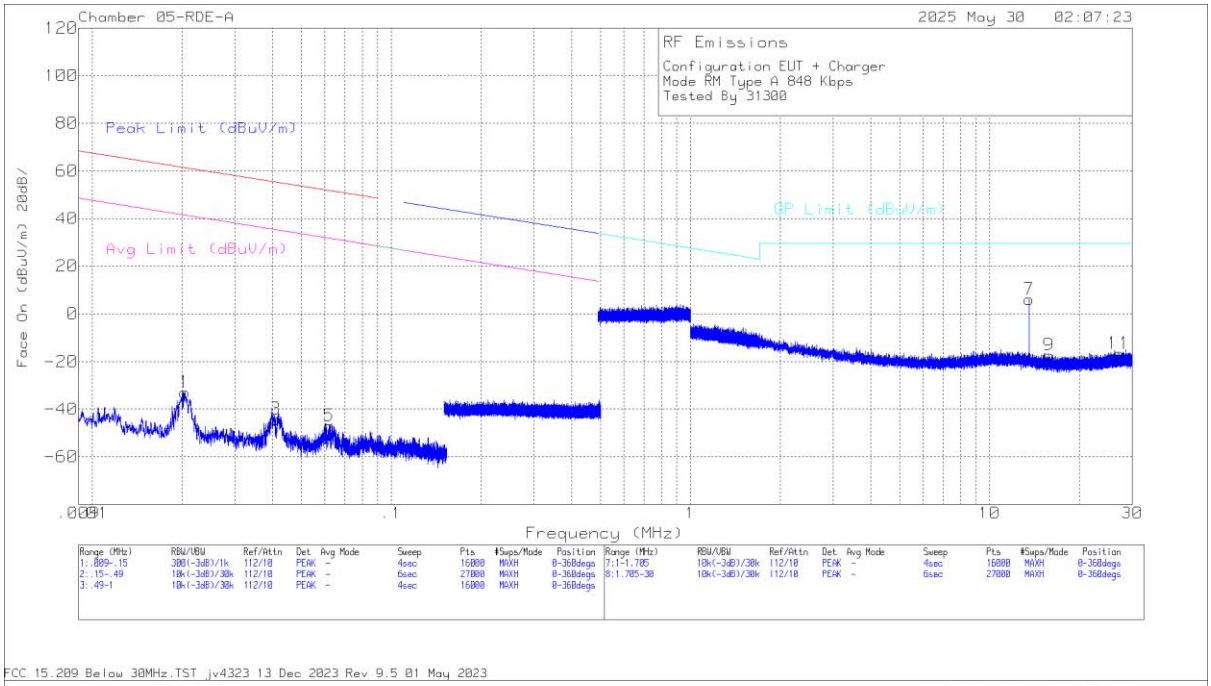
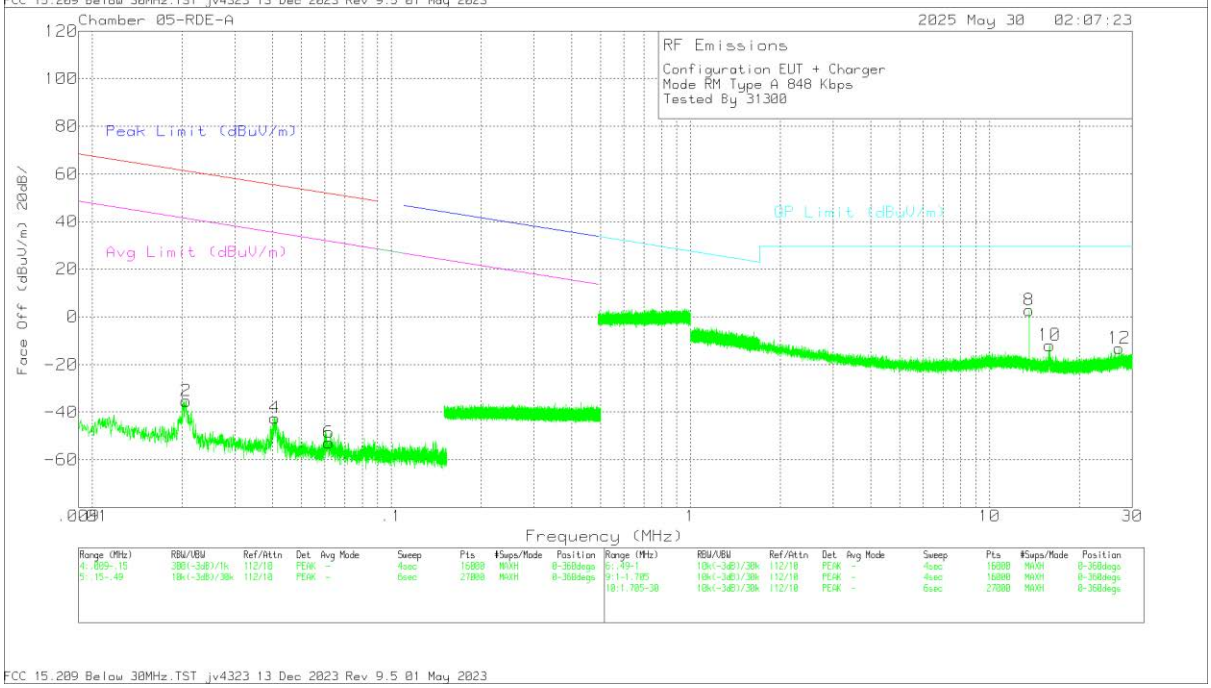
SPURIOUS EMISSION

ANTENNA LOOP FACE ON AND OFF





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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.0204	20.03	Pk	59	-32	-80	-32.97	61.39	-94.36	41.39	-74.36	0-360	Face-On
2	.0206	17.73	Pk	59	-32	-80	-35.27	61.3	-96.57	41.3	-76.57	0-360	Face-Off
3	.0411	11.19	Pk	57.2	-32.6	-80	-44.21	55.31	-99.52	35.31	-79.52	0-360	Face-On
4	.0408	12.99	Pk	57.2	-32.6	-80	-42.41	55.37	-97.78	35.37	-77.78	0-360	Face-Off
5	.0619	9.83	Pk	56.2	-33	-80	-46.97	51.75	-98.72	31.75	-78.72	0-360	Face-On
6	.0618	4.07	Pk	56.2	-33	-80	-52.73	51.76	-104.49	31.76	-84.49	0-360	Face-Off

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
9	15.787	21.17	Pk	34.1	-32.6	-40	-17.33	29.5	-46.83	0-360	Face-On
11	27.0729	22.11	Pk	33.5	-32.2	-40	-16.59	29.5	-46.09	0-360	Face-Off
10	15.8761	26.53	Pk	34.1	-32.6	-40	-11.97	29.5	-41.47	0-360	Face-On
12	27.119	25.38	Pk	33.5	-32.1	-40	-13.22	29.5	-42.72	0-360	Face-Off
7	13.56	44.4	Pk	34.3	-32.6	-40	6.1	29.5	-23.4	0-360	Face-On
8	13.56	41.07	Pk	34.3	-32.6	-40	2.77	29.5	-26.73	0-360	Face-Off

Pk - Peak detector

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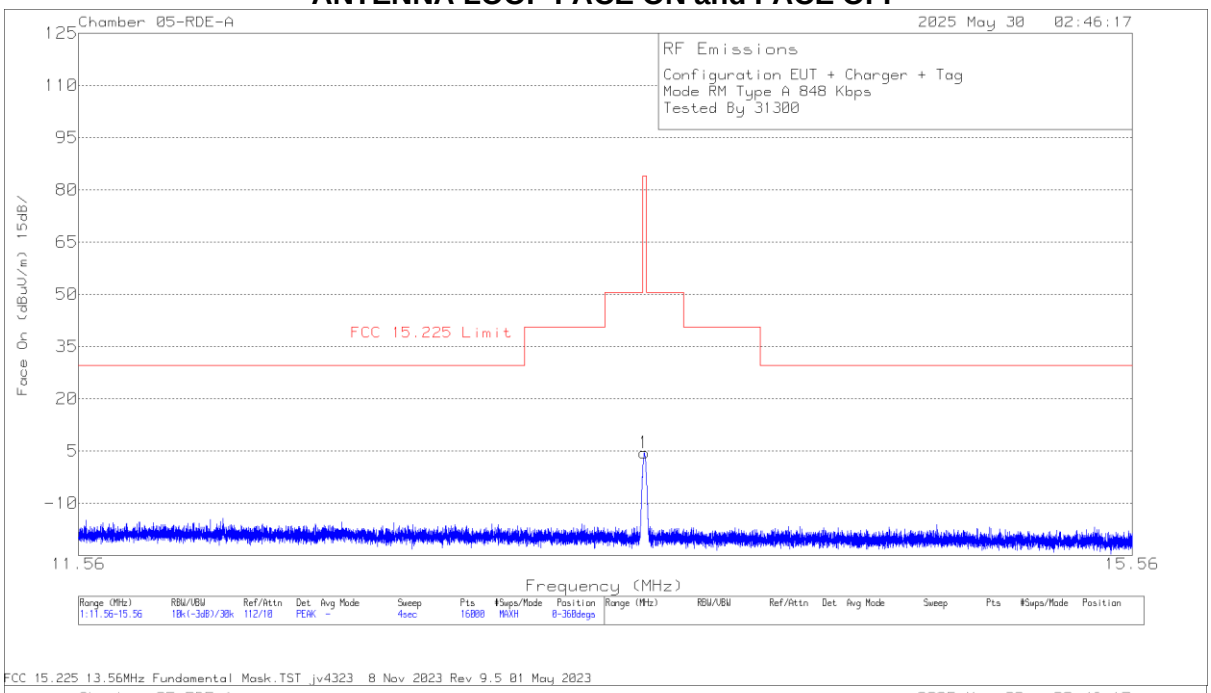
9.4.2. Tag MODE, TYPE A 848Kbps

FUNDAMENTAL

ANTENNA LOOP FACE ON and FACE OFF



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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)	Polarity
1	13.5593	43.03	Pk	34.3	-32.9	-40	4.43	84	-79.57	0-360	Face-On
2	13.557	41.58	Pk	34.3	-32.9	-40	2.98	84	-81.02	0-360	Face-Off

Pk - Peak detector

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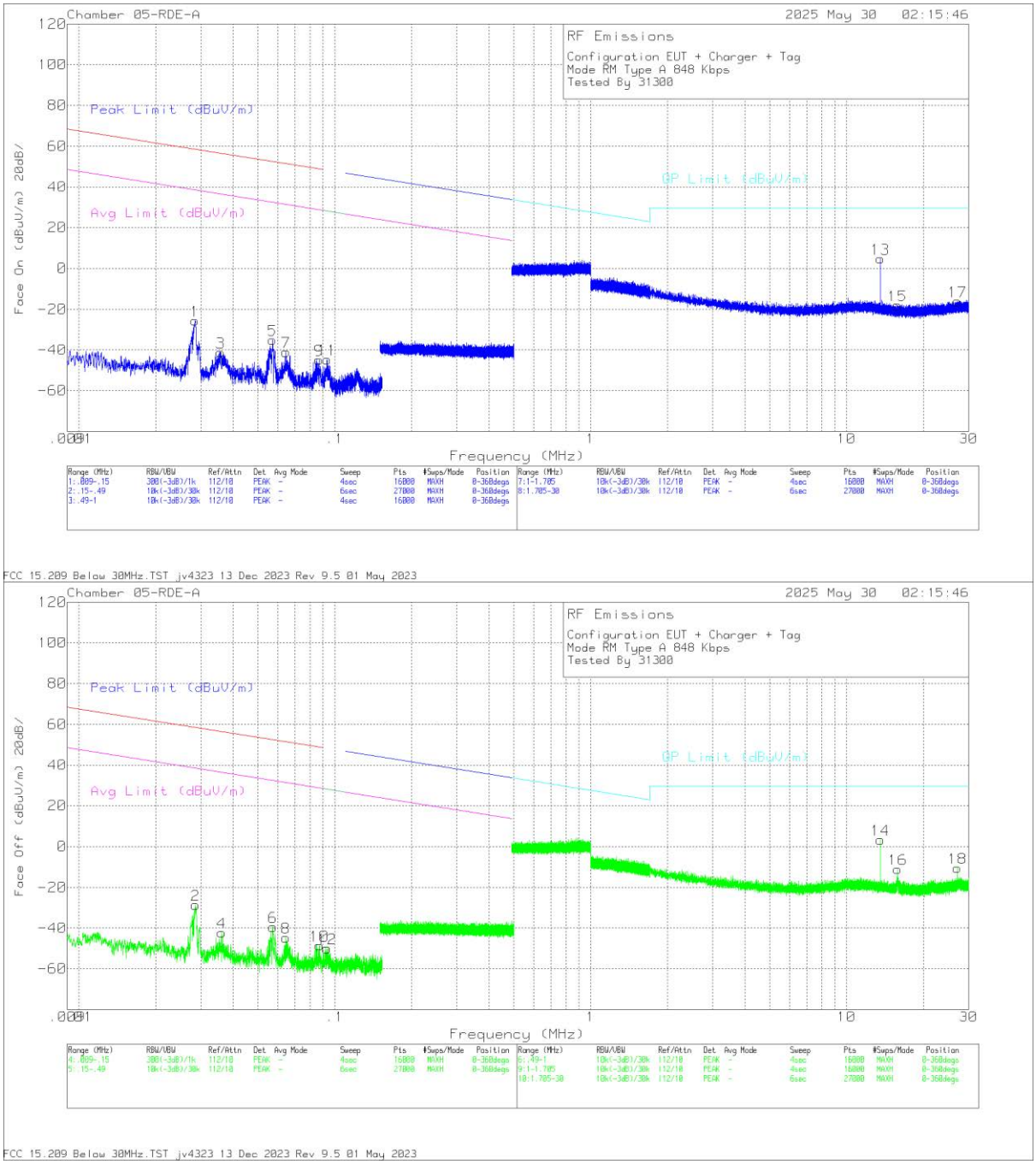
SPURIOUS EMISSION

ANTENNA LOOP FACE ON AND OFF



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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.0284	28.76	Pk	58.2	-32.6	-80	-25.64	58.51	-84.15	38.51	-64.15	0-360	Face-On
2	.0286	25.86	Pk	58.1	-32.6	-80	-28.64	58.46	-87.1	38.46	-67.1	0-360	Face-Off
3	.0358	13.8	Pk	57.6	-32.6	-80	-41.2	56.52	-97.72	36.52	-77.72	0-360	Face-On
4	.0362	12.95	Pk	57.5	-32.6	-80	-42.15	56.42	-98.57	36.42	-78.57	0-360	Face-Off
5	.057	21.5	Pk	56.5	-33.1	-80	-35.1	52.47	-87.57	32.47	-67.57	0-360	Face-On
6	.0574	17.23	Pk	56.4	-33.1	-80	-39.47	52.41	-91.88	32.41	-71.88	0-360	Face-Off
7	.0645	15.8	Pk	56.1	-32.9	-80	-41	51.39	-92.39	31.39	-72.39	0-360	Face-On
8	.0643	12.08	Pk	56.1	-32.9	-80	-44.72	51.42	-96.14	31.42	-76.14	0-360	Face-Off
9	.0868	12.18	Pk	55.8	-32.9	-80	-44.92	48.82	-93.74	28.82	-73.74	0-360	Face-On
10	.0871	8.53	Pk	55.8	-32.9	-80	-48.57	48.79	-97.36	28.79	-77.36	0-360	Face-Off

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(dB/m)	Amp/Cbl (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
11	.0934	12.49	Pk	55.7	-32.9	-80	-44.71	28.18	-72.89	0-360	Face-On
12	.0932	7.16	Pk	55.7	-32.9	-80	-50.04	28.21	-78.25	0-360	Face-Off
13	13.56	43.01	Pk	34.3	-32.6	-40	4.71	29.5	-24.79	0-360	Face-On
14	13.56	41.63	Pk	34.3	-32.6	-40	3.33	29.5	-26.17	0-360	Face-Off
15	15.7922	20.39	Pk	34.1	-32.6	-40	-18.11	29.5	-47.61	0-360	Face-On
16	15.8572	27.38	Pk	34.1	-32.5	-40	-11.02	29.5	-40.52	0-360	Face-Off
17	27.1201	22.43	Pk	33.5	-32.1	-40	-16.17	29.5	-45.67	0-360	Face-On
18	27.119	28.12	Pk	33.5	-32.1	-40	-10.48	29.5	-39.98	0-360	Face-Off

Pk - Peak detector

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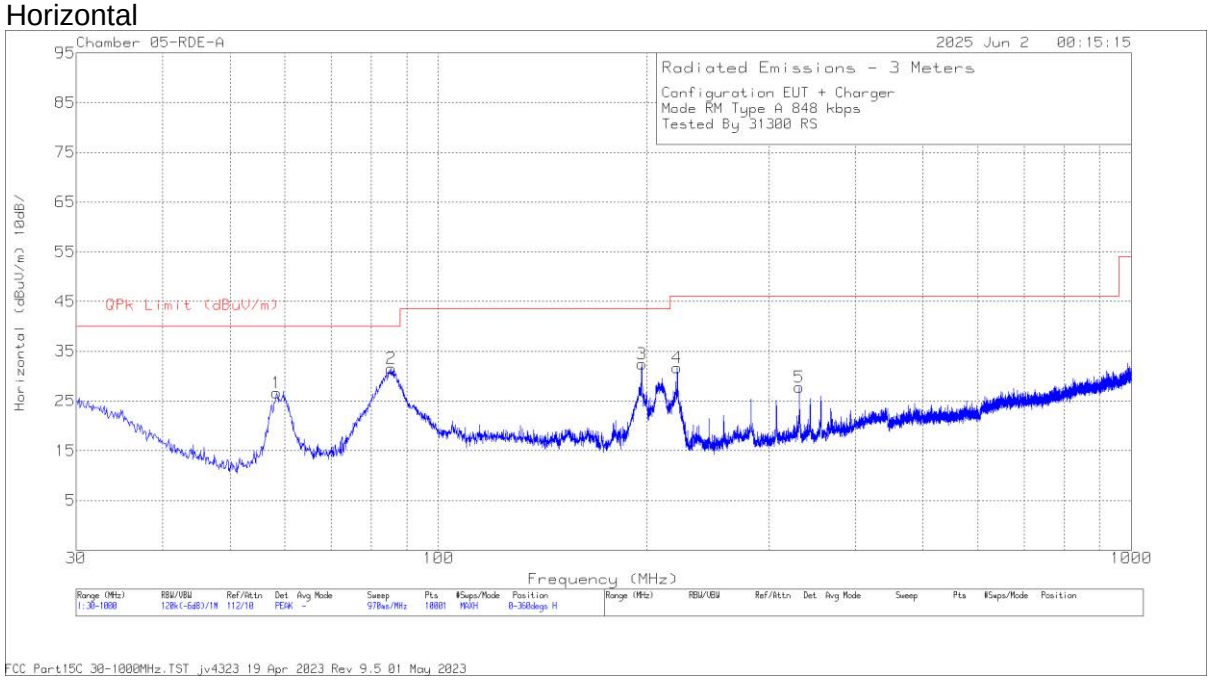
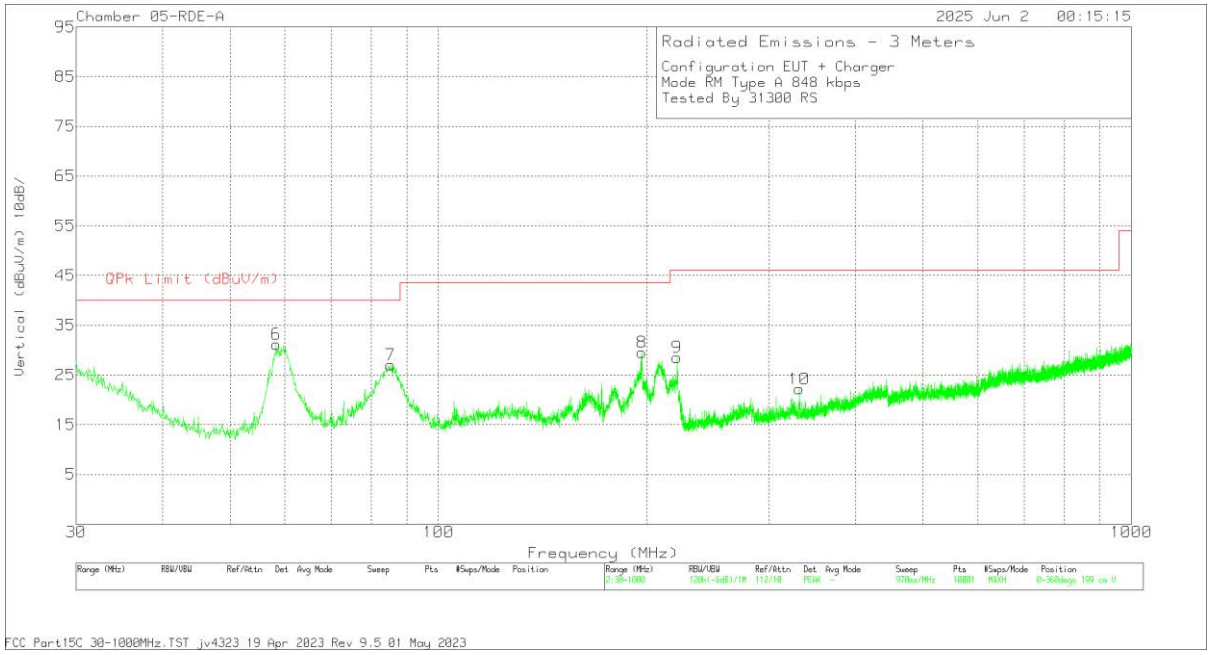
9.5. TX SPURIOUS EMISSION 30 TO 1000 MHz, EUT WITH AC/DC ADAPTER

9.5.1. Type A (Reader Mode), SPURIOUS EMISSION 848Kbps

Horizontal



Vertical



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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80508 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	58.421	45.62	Pk	13.2	-32.2	26.62	40	-13.38	0-360	400	H
2	85.484	50.35	Pk	13.1	-31.9	31.55	40	-8.45	0-360	199	H
3	196.452	46.01	Pk	18.1	-31.7	32.41	43.52	-11.11	0-360	99	H
4	220.993	46.56	Pk	16.5	-31.4	31.66	46.02	-14.36	0-360	99	H
5	331.67	39.38	Pk	19.8	-31.4	27.78	46.02	-18.24	0-360	99	H
6	58.324	50.29	Pk	13.2	-32.3	31.19	40	-8.81	0-360	100	V
7	85.29	45.68	Pk	13.1	-31.8	26.98	40	-13.02	0-360	199	V
8	196.452	43.12	Pk	18.1	-31.7	29.52	43.52	-14	0-360	100	V
9	221.09	43.39	Pk	16.5	-31.4	28.49	46.02	-17.53	0-360	100	V
10	331.67	33.77	Pk	19.8	-31.4	22.17	46.02	-23.85	0-360	100	V

Pk - Peak detector

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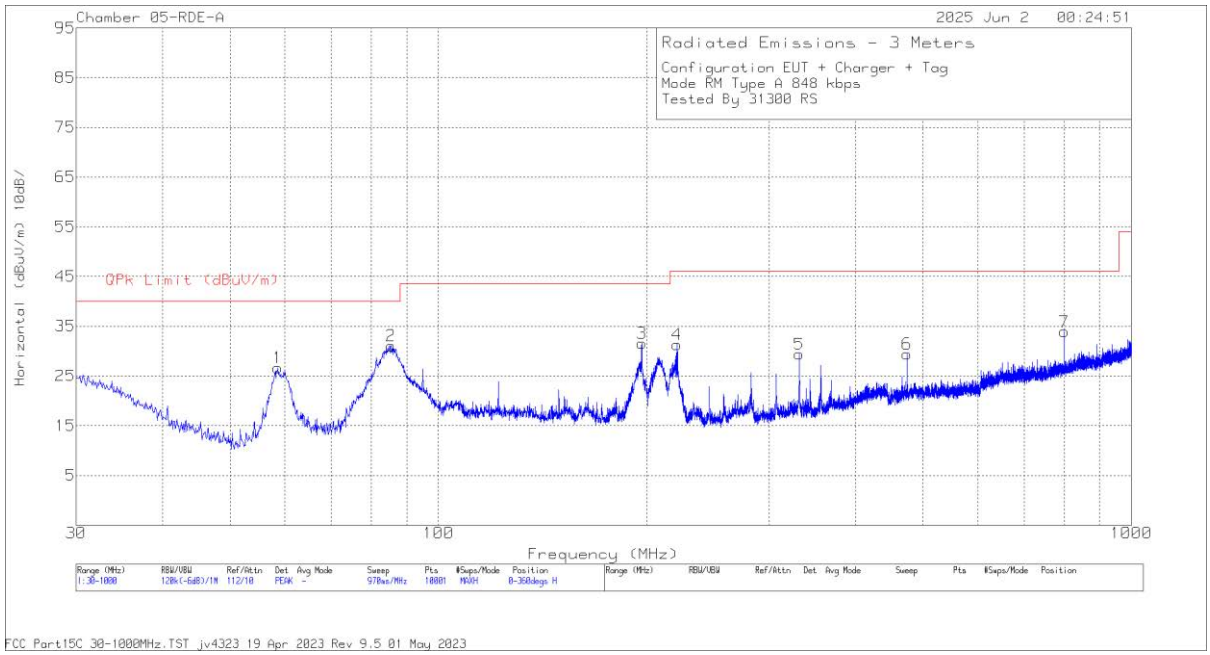
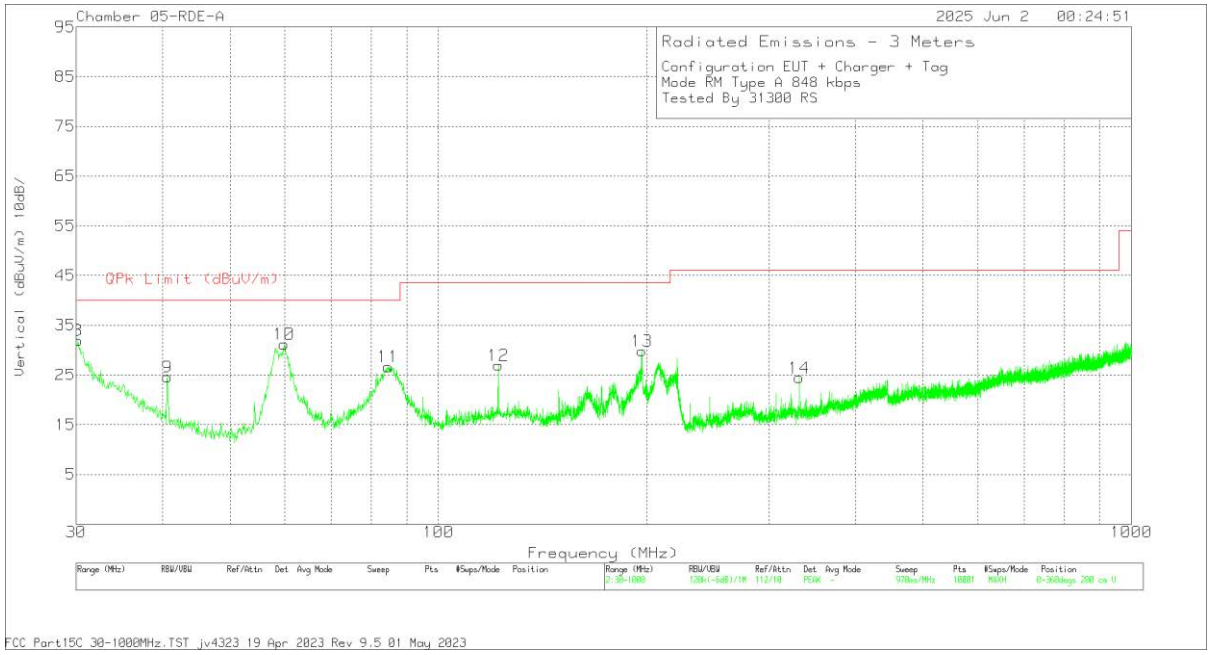
9.5.2. Type A (Tag Mode), SPURIOUS EMISSION 848Kbps

Horizontal



Vertical



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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80508 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	58.615	45.56	Pk	13.3	-32.2	26.66	40	-13.34	0-360	400	H
2	85.387	49.89	Pk	13.1	-31.9	31.09	40	-8.91	0-360	199	H
3	196.549	45.01	Pk	18.2	-31.6	31.61	43.52	-11.91	0-360	101	H
4	220.993	46.19	Pk	16.5	-31.4	31.29	46.02	-14.73	0-360	101	H
5	331.573	40.86	Pk	19.8	-31.3	29.36	46.02	-16.66	0-360	101	H
6	474.551	36.74	Pk	23.6	-30.9	29.44	46.02	-16.58	0-360	199	H
7	800.083	36.49	Pk	27	-29.6	33.89	46.02	-12.13	0-360	101	H
8	30.194	37.57	Pk	27.1	-32.7	31.97	40	-8.03	0-360	200	V
9	40.67	38.26	Pk	19.1	-32.8	24.56	40	-15.44	0-360	101	V
10	59.876	50.33	Pk	13.3	-32.4	31.23	40	-8.77	0-360	101	V
11	84.514	45.23	Pk	13.1	-31.7	26.63	40	-13.37	0-360	200	V
12	121.956	38.55	Pk	20	-31.6	26.95	43.52	-16.57	0-360	101	V
13	196.549	43.25	Pk	18.2	-31.6	29.85	43.52	-13.67	0-360	101	V
14	331.573	35.93	Pk	19.8	-31.3	24.43	46.02	-21.59	0-360	101	V

Pk - Peak detector

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10. FREQUENCY STABILITY

LIMIT

§15.225 (e) The frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency, over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

IC RSS-210, Annex B.6
Carrier frequency stability shall be maintained to ±0.01% (±100 ppm).

TEST PROCEDURE

ANSI C63.10-2020 Clause 6.8

RESULTS

ID:	33329	**Date:**	2025-6-19

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47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888
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10.1. PRIMARY ANTENNA

READER MODE, TYPE A 848Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20ºC										
Limit: ± 100 ppm = 1.35600 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapsed								
(VAC)	(ºC)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
	50	13.55987418	2.867	13.55986885	3.261	13.55986581	3.485	13.55986658	3.428	± 100
	40	13.55987881	2.526	13.5598729	2.962	13.55984	5.388	13.55985103	4.575	± 100
	30	13.55989523	1.315	13.55989238	1.526	13.55988901	1.774	13.55987928	2.492	± 100
3.80	***20***	***13.55991306***	***0.000***	***13.55990966***	***0.251***	***13.5599014***	***0.860***	***13.55989724***	***1.167***	***± 100***
	10	13.55992416	-0.818	13.55992301	-0.734	13.55992103	-0.588	13.55992112	-0.594	± 100
	0	13.55993438	-1.572	13.55993479	-1.602	13.55993612	-1.700	13.559936	-1.692	± 100
	-10	13.55993723	-1.782	13.55993478	-1.602	13.55993565	-1.666	13.55993624	-1.709	± 100
	-20	13.5599402	-2.001	13.55994075	-2.041	13.55994641	-2.459	13.55995362	-2.991	± 100
3.23	20	13.55988354	2.177	13.55988217	2.278	13.55988176	2.308	13.55988153	2.325	± 100
4.37	20	13.55988584	2.008	13.55988612	1.987	13.55988619	1.982	13.55988634	1.971	± 100

CE MODE, TYPE A 848Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20ºC										
Limit: ± 100 ppm = 1.35600 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapsed								
(VAC)	(ºC)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
	50	13.5591843	-7.145	13.55910925	-1.610	13.55926559	-13.139	13.55919379	-7.845	± 100
	40	13.55920553	-8.711	13.55937069	-20.890	13.55907379	1.005	13.55905241	2.581	± 100
	30	13.55928271	-14.402	13.55904985	2.770	13.55903846	3.610	13.55917966	-6.803	± 100
3.80	**20**	**13.55908742**	**0.000**	**13.55933464**	**-18.232**	**13.55945788**	**-27.320**	**13.55913773**	**-3.710**	**± 100**
	10	13.55907143	1.179	13.55945616	-27.193	13.55944376	-26.279	13.559278338	-14.080	± 100
	0	13.55900965	5.735	13.55883932	18.296	13.558943224	10.634	13.559216129	-9.492	± 100
	-10	13.559474416	-28.540	13.55937507	-21.214	13.558981002	7.848	13.559321801	-17.285	± 100
	-20	13.5598404140	13.560	13.55929647	-15.417	13.559284619	-14.543	13.559221146	-9.862	± 100
3.23	20	13.55917928	-6.774	13.55913314	-3.372	13.55920105	-8.380	13.55934483	-18.983	± 100
4.37	20	13.55901439	5.385	13.55912588	-2.837	13.55920958	-9.009	13.5589368	11.107	± 100

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Tag MODE, TYPE A 848Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20ºC										
Limit: ± 100 ppm = 1.35600 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapsed								
(VAC)	(ºC)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
	50	13.55987995	6.631	13.55987093	7.296	13.55986728	7.565	13.55986522	7.717	± 100
	40	13.55989232	5.719	13.55988138	6.526	13.55987271	7.165	13.55987138	7.263	± 100
	30	13.55994677	1.703	13.55992398	3.384	13.55991923	3.734	13.55990031	5.129	± 100
3.80	**20**	13.55996987	***0.000***	13.55996387	***0.442***	13.55992415	***3.371***	13.55991407	***4.114***	***± 100***
	10	13.55996763	0.165	13.55996233	0.556	13.55996311	0.498	13.55996781	0.151	± 100
	0	13.55996503	0.357	13.55996835	0.112	13.55996521	0.343	13.55996788	0.147	± 100
	-10	13.55996911	0.056	13.55996593	0.290	13.55996587	0.294	13.55996511	0.350	± 100
	-20	13.55996791	0.144	13.5599654	0.329	13.55996747	0.177	13.55997312	-0.240	± 100
3.23	20	13.55991383	4.133	13.55991096	4.344	13.55990024	5.135	13.55989553	5.482	± 100
4.37	20	13.55990672	4.657	13.5599026	4.960	13.55989808	5.294	13.55989754	5.334	± 100

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10.2. SECONDARY ANTENNA

READER MODE, TYPE A 848Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20ºC										
Limit: ± 100 ppm = 1.35600 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapsed								
(VAC)	(ºC)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
	50	13.55994502	-0.172	13.55994428	-0.118	13.55994418	-0.110	13.55996684	-1.781	± 100
	40	13.55995624	-1.000	13.5599559	-0.974	13.55995212	-0.696	13.55994887	-0.456	± 100
	30	13.55994456	-0.138	13.55994303	-0.025	13.55994056	0.157	13.55938396	41.204	± 100
3.80	**20**	***13.55994268***	***0.000***	***13.5599442***	***-0.112***	***13.55994562***	***-0.216***	***13.55994773***	***-0.372***	***± 100***
	10	13.55995288	-0.752	13.55995621	-0.998	13.55995869	-1.180	13.55996396	-1.569	± 100
	0	13.55997529	-2.405	13.55997758	-2.573	13.55998219	-2.913	13.55998895	-3.412	± 100
	-10	13.56001833	-5.579	13.56001294	-5.181	13.56001458	-5.302	13.56001838	-5.583	± 100
	-20	13.5600358	-6.867	13.56003155	-6.553	13.56003497	-6.806	13.56003744	-6.988	± 100
3.23	20	13.55994128	0.103	13.5599408	0.139	13.5599419	0.058	13.55994103	0.122	± 100
4.37	20	13.55994609	-0.251	13.55994713	-0.328	13.55994808	-0.398	13.55995059	-0.583	± 100

Tag MODE, TYPE A 848Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20ºC										
Limit: ± 100 ppm = 1.35600 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapsed								
(VAC)	(ºC)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
	50	13.55997229	-1.617	13.55995231	-0.144	13.55994687	0.257	13.5599432	0.528	± 100
	40	13.55994218	0.603	13.55994093	0.695	13.5599403	0.742	13.55994106	0.686	± 100
	30	13.55993941	0.807	13.55993975	0.782	13.55993962	0.792	13.55993961	0.793	± 100
3.80	**20**	***13.55995036***	***0.000***	***13.55994674***	***0.267***	***13.55994792***	***0.180***	***13.55995001***	***0.026***	***± 100***
	10	13.55997221	-1.612	13.55997292	-1.664	13.55998073	-2.239	13.55998111	-2.268	± 100
	0	13.55999548	-3.327	13.55999763	-3.486	13.55999613	-3.375	13.55999913	-3.597	± 100
	-10	13.56000192	-3.803	13.56000632	-4.127	13.56000687	-4.167	13.56000701	-4.178	± 100
	-20	13.56003954	-6.577	13.56003924	-6.555	13.56004132	-6.708	13.56004354	-6.872	± 100
3.23	20	13.55994976	0.044	13.55995002	0.025	13.55995012	0.018	13.55995027	0.006	± 100
4.37	20	13.55995356	-0.236	13.55995269	-0.172	13.55995382	-0.255	13.559954	-0.269	± 100

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11. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207
IC RSS-GEN, Section 8.8

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

Frequency range (MHz)	Limits (dBµV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Notes: 1. The lower limit shall apply at the transition frequencies 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

TEST PROCEDURE

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

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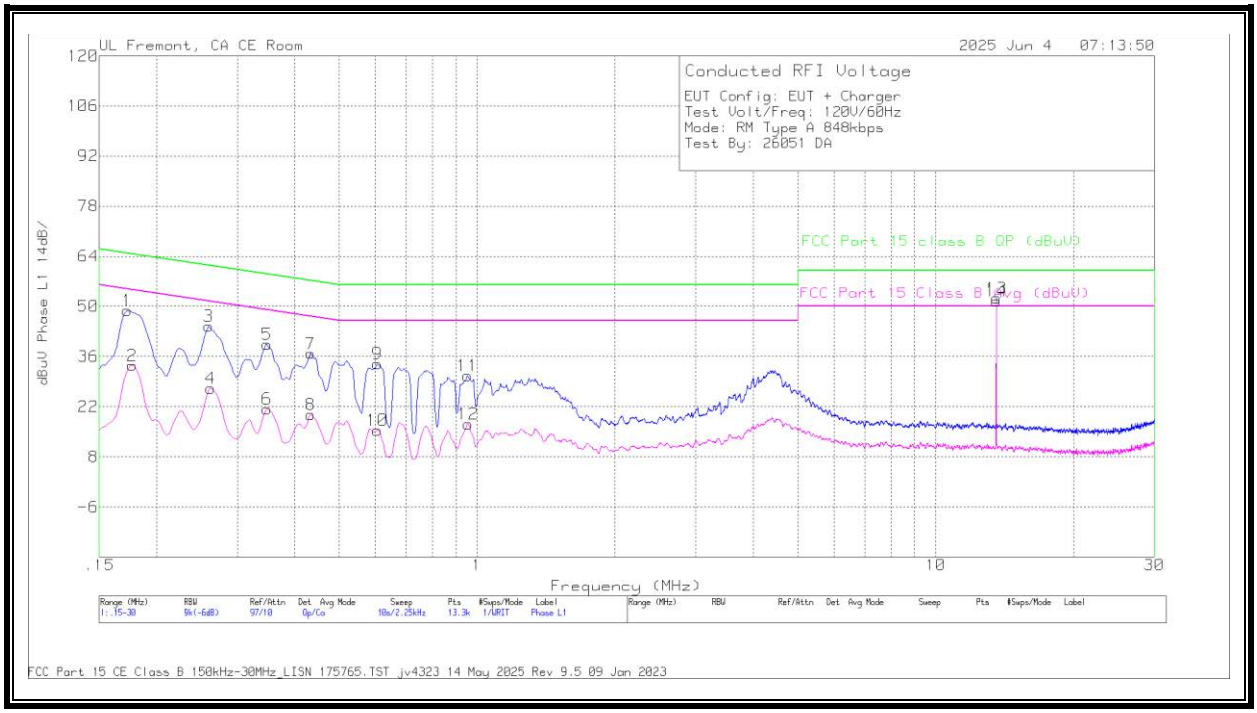
11.1. PRIMARY ANTENNA

11.1.1. READER MODE: Type A, 848 Kbps

LINE 1 RESULTS



Worst Emission

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.177	14.72	Ca	.3	.1	8.4	10	33.52	54.63	-21.11	-	-
4	.2625	8.97	Ca	-.1	0	8.2	10	27.07	51.35	-24.28	-	-
6	.348	3.37	Ca	-.4	0	8.4	10	21.37	49.01	-27.64	-	-
8	.4335	1.02	Ca	0	0	8.7	10	19.72	47.19	-27.47	-	-
10	.6068	-2.74	Ca	-.1	0	8.2	10	15.36	46	-30.64	-	-
12	.9555	-1.47	Ca	.3	0	8.3	10	17.13	46	-28.87	-	-
14	13.56	32.99	Ca	.2	.1	8.2	10	51.49	**50**	**1.49**	-	-
1	.1725	29.94	Qp	.3	.1	8.5	10	48.84	-	-	64.84	-16
3	.2603	26.34	Qp	-.1	0	8.2	10	44.44	-	-	61.42	-16.98
5	.348	21.44	Qp	-.4	0	8.4	10	39.44	-	-	59.01	-19.57
7	.4335	18.15	Qp	0	0	8.7	10	36.85	-	-	57.19	-20.34
9	.6068	15.81	Qp	-.1	0	8.2	10	33.91	-	-	56	-22.09
11	.9533	11.99	Qp	.3	0	8.3	10	30.59	-	-	56	-25.41
13	13.56	33.79	Qp	.2	.1	8.2	10	52.29	-	-	60	-7.71

Qp - Quasi-Peak detector
Ca - CISPR average detection

Note: 13.56MHz is a fundamental frequency of the EUT. Data under the following section 11.1.2 indicates that when the antenna terminal is terminated, the fundamental amplitude is below the limit line.

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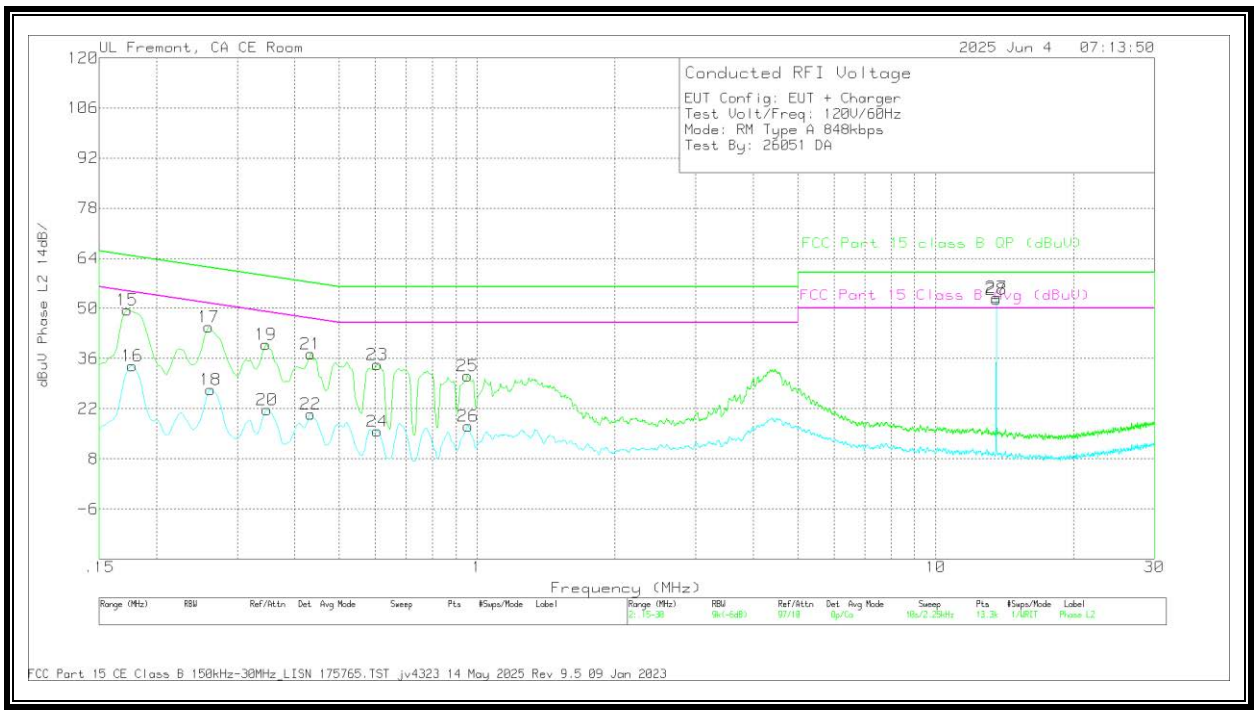
LINE 2 RESULTS



Worst Emission

Trace Markers

Range 2: Phase L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
16	.177	15.23	Ca	.3	0	8.4	10	33.93	54.63	-20.7	-	-
18	.2625	9.26	Ca	-.1	0	8.2	10	27.36	51.35	-23.99	-	-
20	.348	3.66	Ca	-.4	0	8.4	10	21.66	49.01	-27.35	-	-
22	.4335	1.79	Ca	0	0	8.7	10	20.49	47.19	-26.7	-	-
24	.6068	-2.44	Ca	-.1	0	8.2	10	15.66	46	-30.34	-	-
26	.9555	-1.47	Ca	.3	0	8.3	10	17.13	46	-28.87	-	-
28	13.56	34.08	Ca	.2	.1	8.2	10	52.58	**50**	**2.58**	-	-
15	.1725	30.81	Qp	.3	0	8.5	10	49.61	-	-	64.84	-15.23
17	.2603	26.71	Qp	-.1	0	8.2	10	44.81	-	-	61.42	-16.61
19	.3458	21.88	Qp	-.4	0	8.4	10	39.88	-	-	59.06	-19.18
21	.4335	18.55	Qp	0	0	8.7	10	37.25	-	-	57.19	-19.94
23	.6068	16.24	Qp	-.1	0	8.2	10	34.34	-	-	56	-21.66
25	.9533	12.59	Qp	.3	0	8.3	10	31.19	-	-	56	-24.81
27	13.56	34.62	Qp	.2	.1	8.2	10	53.12	-	-	60	-6.88

Qp - Quasi-Peak detector
Ca - CISPR average detection

Note: 13.56MHz is a fundamental frequency of the EUT. The data under the following section 11.1.2 indicates that when the antenna terminal is terminated, the fundamental amplitude is below the limit line.

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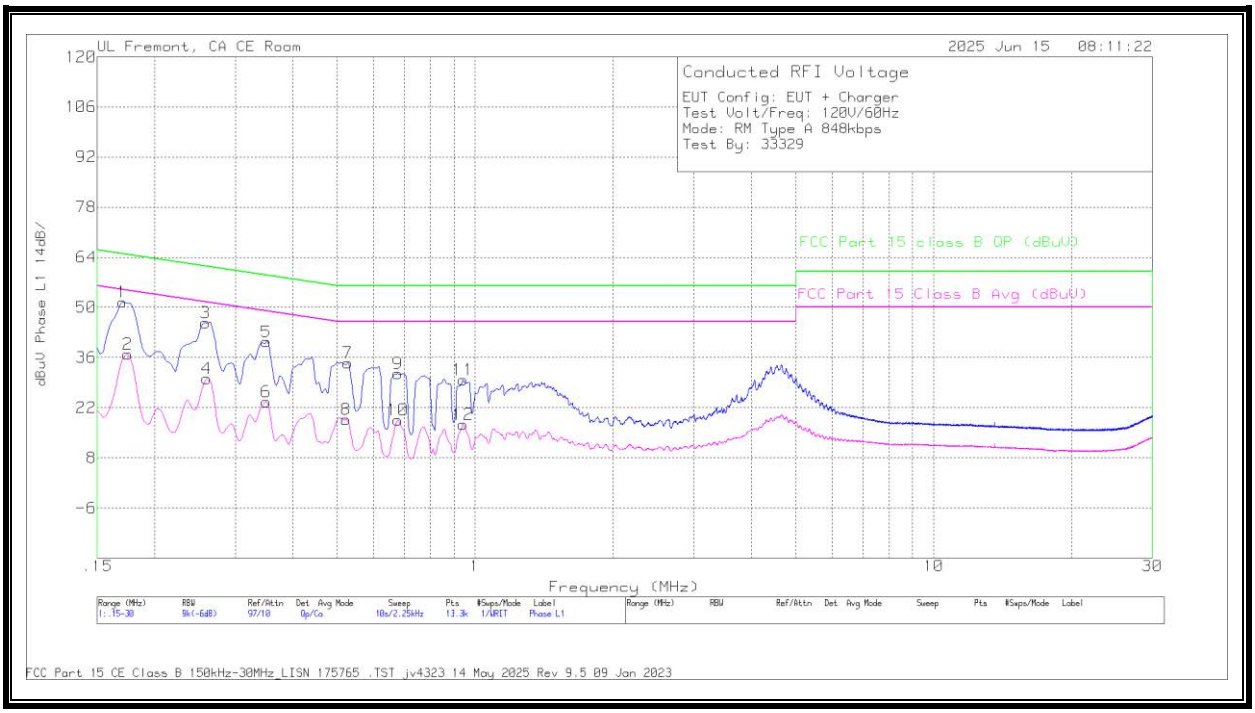
11.1.2. READER MODE: Type A, 848 Kbps (ANTENNA PORT TERMINATED)

LINE 1 RESULTS



Worst Emission

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 1 C3_C1_Limiter no Pad_UL (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1748	17.42	Ca	9.4	.1	10	36.92	54.73	-17.81	-	-
4	.2603	10.78	Ca	9.4	0	10	30.18	51.42	-21.24	-	-
6	.3503	4.24	Ca	9.4	0	10	23.64	48.96	-25.32	-	-
8	.5235	-.51	Ca	9.3	0	10	18.79	46	-27.21	-	-
10	.6788	-.79	Ca	9.4	0	10	18.61	46	-27.39	-	-
12	.942	-2.04	Ca	9.4	0	10	17.36	46	-28.64	-	-
1	.1703	31.97	Qp	9.4	.1	10	51.47	-	-	64.95	-13.48
3	.258	26.32	Qp	9.4	0	10	45.72	-	-	61.5	-15.78
5	.3503	20.97	Qp	9.4	0	10	40.37	-	-	58.96	-18.59
7	.528	15.21	Qp	9.3	0	10	34.51	-	-	56	-21.49
9	.6788	12.09	Qp	9.4	0	10	31.49	-	-	56	-24.51
11	.942	10.34	Qp	9.4	0	10	29.74	-	-	56	-26.26

Qp - Quasi-Peak detector
Ca - CISPR average detection

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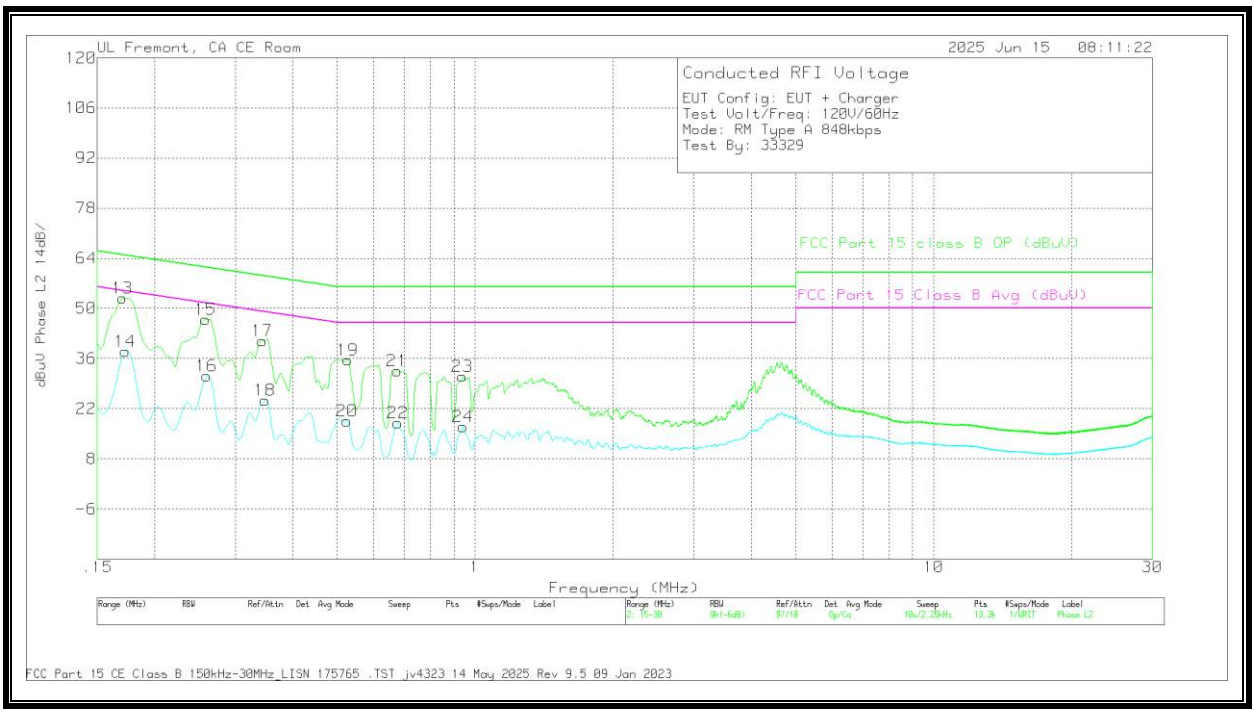
LINE 2 RESULTS



Worst Emission

Trace Markers

Range 2: Phase L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 2 C3_C2_Limiter no Pad_UL (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
14	.1725	18.58	Ca	9.4	0	10	37.98	54.84	-16.86	-	-
16	.2603	11.7	Ca	9.4	0	10	31.1	51.42	-20.32	-	-
18	.348	5.04	Ca	9.3	0	10	24.34	49.01	-24.67	-	-
20	.5258	-.72	Ca	9.3	0	10	18.58	46	-27.42	-	-
22	.6788	-1.29	Ca	9.3	0	10	18.01	46	-27.99	-	-
24	.942	-2.29	Ca	9.3	0	10	17.01	46	-28.99	-	-
13	.1703	33.52	Qp	9.4	0	10	52.92	-	-	64.95	-12.03
15	.258	27.49	Qp	9.4	0	10	46.89	-	-	61.5	-14.61
17	.3435	21.72	Qp	9.3	0	10	41.02	-	-	59.12	-18.1
19	.528	16.32	Qp	9.3	0	10	35.62	-	-	56	-20.38
21	.6765	13.26	Qp	9.3	0	10	32.56	-	-	56	-23.44
23	.9398	11.76	Qp	9.3	0	10	31.06	-	-	56	-24.94

Qp - Quasi-Peak detector
Ca - CISPR average detection

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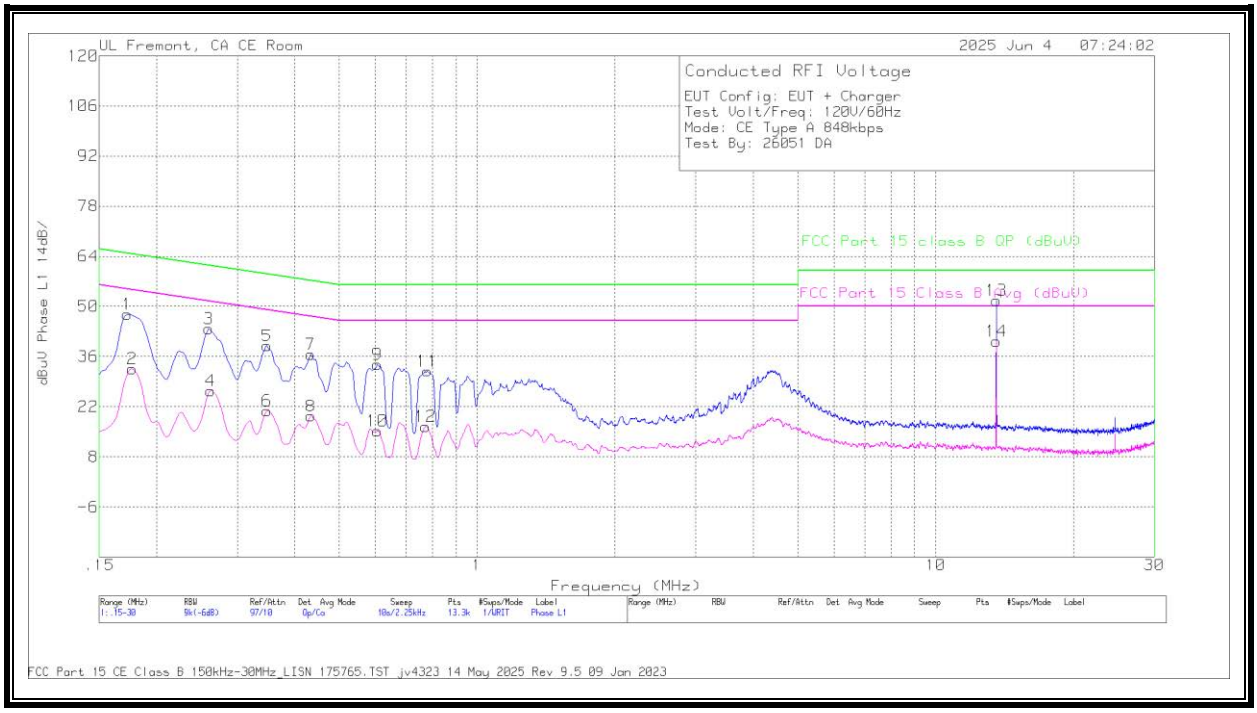
11.1.3. CE MODE: Type A, 848Kbps

NORMAL OPERATION

LINE 1 RESULTS



Worst Emission

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.177	13.75	Ca	.3	.1	8.4	10	32.55	54.63	-22.08	-	-
4	.2625	8.31	Ca	-.1	0	8.2	10	26.41	51.35	-24.94	-	-
6	.348	2.82	Ca	-.4	0	8.4	10	20.82	49.01	-28.19	-	-
8	.4346	.64	Ca	0	0	8.7	10	19.34	47.16	-27.82	-	-
10	.6068	-2.9	Ca	-.1	0	8.2	10	15.2	46	-30.8	-	-
12	.7733	-1.91	Ca	.1	0	8.3	10	16.49	46	-29.51	-	-
14	13.56	21.75	Ca	.2	.1	8.2	10	40.25	50	-9.75	-	-
1	.1725	28.98	Qp	.3	.1	8.5	10	47.88	-	-	64.84	-16.96
3	.2603	25.67	Qp	-.1	0	8.2	10	43.77	-	-	61.42	-17.65
5	.348	20.97	Qp	-.4	0	8.4	10	38.97	-	-	59.01	-20.04
7	.4335	17.88	Qp	0	0	8.7	10	36.58	-	-	57.19	-20.61
9	.6068	15.62	Qp	-.1	0	8.2	10	33.72	-	-	56	-22.28
11	.78	13.54	Qp	.2	0	8.2	10	31.94	-	-	56	-24.06
13	13.56	33.14	Qp	.2	.1	8.2	10	51.64	-	-	60	-8.36

Qp - Quasi-Peak detector
Ca - CISPR average detection

Note: 13.56MHz is a fundamental frequency of the EUT. Data under the following section 11.1.4 indicates that when the antenna terminal is terminated, the fundamental amplitude is below the limit line.

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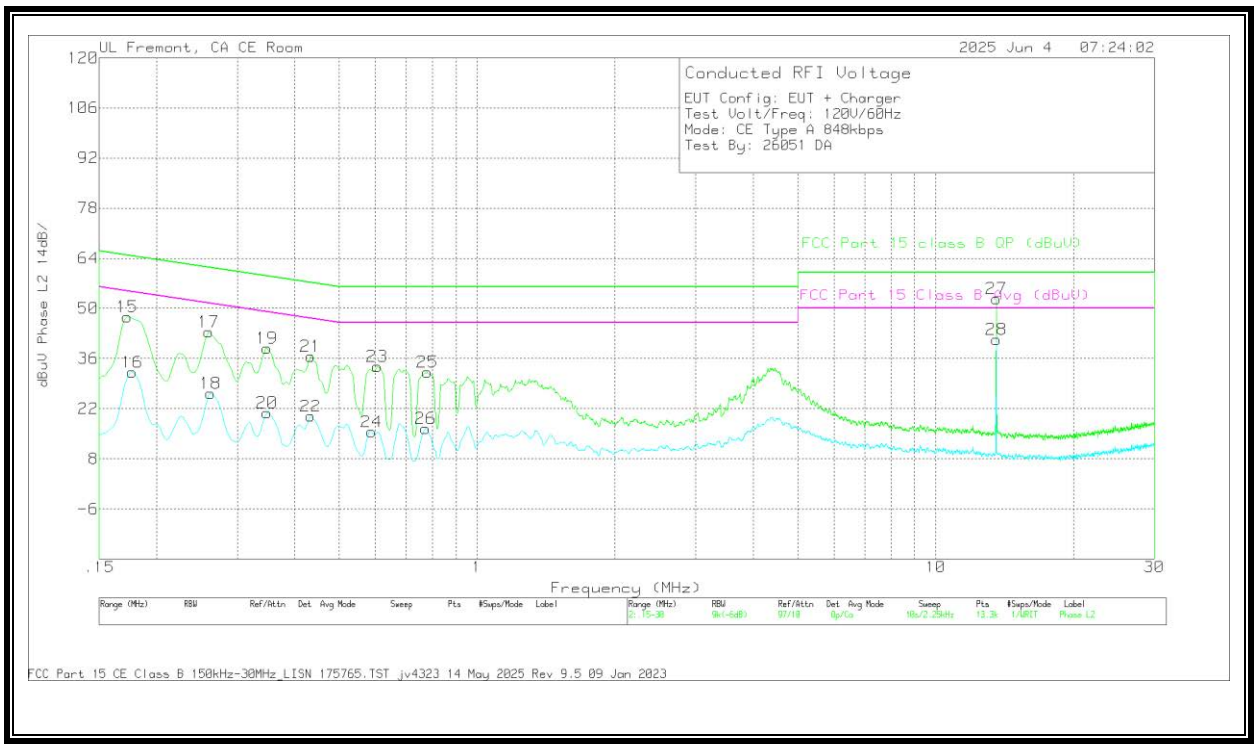
LINE 2 RESULTS



Worst Emission

Trace Markers

Range 2: Phase L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
16	.177	13.44	Ca	.3	0	8.4	10	32.14	54.63	-22.49	-	-
18	.2625	8.11	Ca	-.1	0	8.2	10	26.21	51.35	-25.14	-	-
20	.348	2.76	Ca	-.4	0	8.4	10	20.76	49.01	-28.25	-	-
22	.4335	1.17	Ca	0	0	8.7	10	19.87	47.19	-27.32	-	-
24	.5888	-2.41	Ca	-.2	0	8.1	10	15.49	46	-30.51	-	-
26	.7733	-2.02	Ca	.1	0	8.3	10	16.38	46	-29.62	-	-
28	13.56	22.77	Ca	.2	.1	8.2	10	41.27	50	-8.73	-	-
15	.1725	28.82	Qp	.3	0	8.5	10	47.62	-	-	64.84	-17.22
17	.2603	25.36	Qp	-.1	0	8.2	10	43.46	-	-	61.42	-17.96
19	.348	20.9	Qp	-.4	0	8.4	10	38.9	-	-	59.01	-20.11
21	.4335	17.85	Qp	0	0	8.7	10	36.55	-	-	57.19	-20.64
23	.6068	15.71	Qp	-.1	0	8.2	10	33.81	-	-	56	-22.19
25	.78	13.82	Qp	.2	0	8.2	10	32.22	-	-	56	-23.78
27	13.56	34.17	Qp	.2	.1	8.2	10	52.67	-	-	60	-7.33

Qp - Quasi-Peak detector
Ca - CISPR average detection

Note: 13.56MHz is a fundamental frequency of the EUT. Data under the following section 11.1.4 indicates that when the antenna terminal is terminated, the fundamental amplitude is below the limit line.

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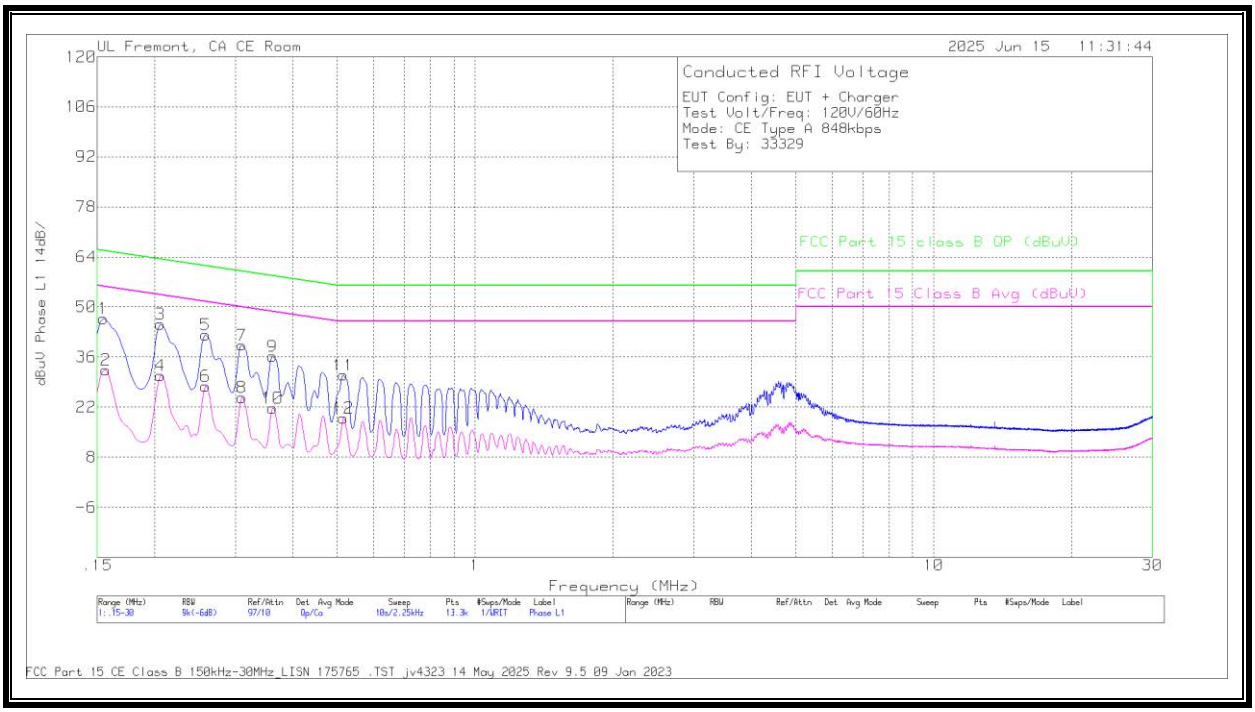
11.1.4. CE MODE: Type A, 848 Kbps (ANTENNA PORT TERMINATED)

LINE 1 RESULTS



Worst Emission

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 1 C3_C1_Limit er no Pad_UL (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1568	12.92	Ca	9.4	.1	10	32.42	55.63	-23.21	-	-
4	.2063	11.48	Ca	9.4	0	10	30.88	53.35	-22.47	-	-
6	.258	8.47	Ca	9.4	0	10	27.87	51.5	-23.63	-	-
8	.3098	5.23	Ca	9.4	0	10	24.63	49.98	-25.35	-	-
10	.3615	2.28	Ca	9.4	0	10	21.68	48.69	-27.01	-	-
12	.5168	-.36	Ca	9.3	0	10	18.94	46	-27.06	-	-
1	.1545	27.24	Qp	9.4	.1	10	46.74	-	-	65.75	-19.01
3	.2063	25.72	Qp	9.4	0	10	45.12	-	-	63.35	-18.23
5	.258	22.84	Qp	9.4	0	10	42.24	-	-	61.5	-19.26
7	.3098	19.9	Qp	9.4	0	10	39.3	-	-	59.98	-20.68
9	.3615	16.76	Qp	9.4	0	10	36.16	-	-	58.69	-22.53
11	.5168	11.6	Qp	9.3	0	10	30.9	-	-	56	-25.1

Qp - Quasi-Peak detector
Ca - CISPR average detection

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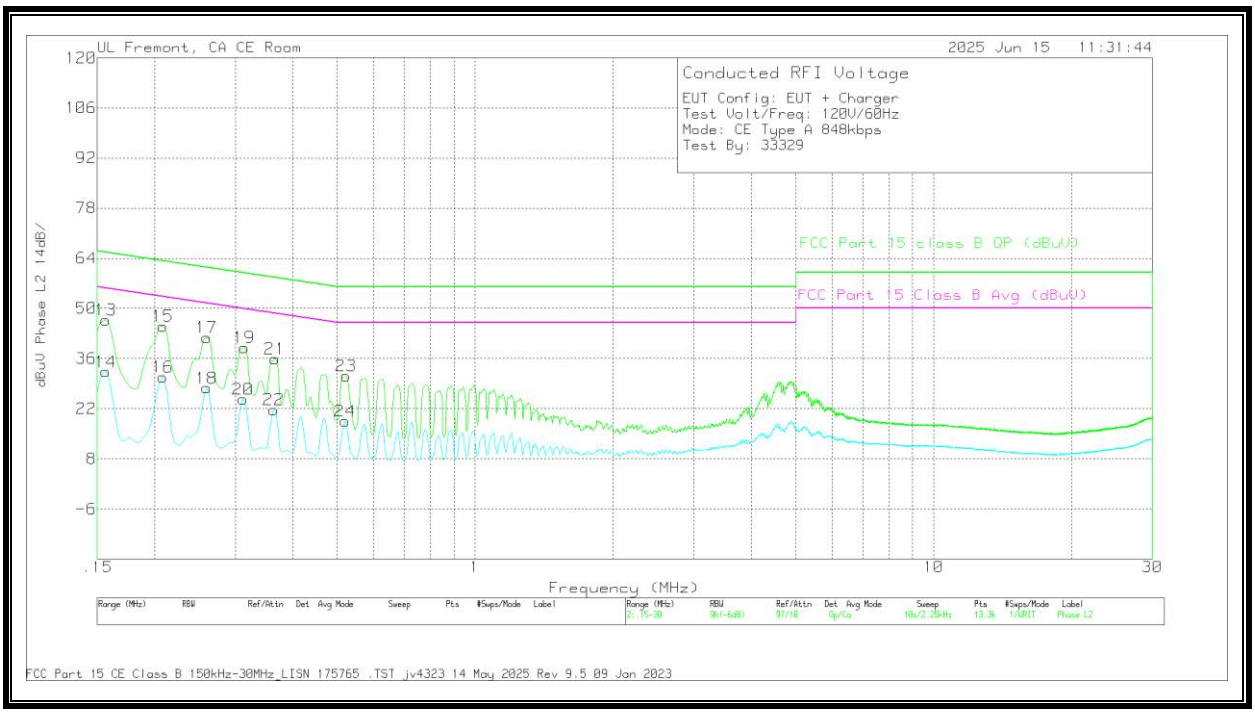
LINE 2 RESULTS



Worst Emission

Trace Markers

Range 2: Phase L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 2 C3_C2_Limiter no Pad_UL (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
14	.1568	12.8	Ca	9.4	.1	10	32.3	55.63	-23.33	-	-
16	.2085	11.43	Ca	9.4	0	10	30.83	53.26	-22.43	-	-
18	.2603	8.34	Ca	9.4	0	10	27.74	51.42	-23.68	-	-
20	.312	5.29	Ca	9.3	0	10	24.59	49.92	-25.33	-	-
22	.3638	2.37	Ca	9.3	0	10	21.67	48.64	-26.97	-	-
24	.5213	-.83	Ca	9.3	0	10	18.47	46	-27.53	-	-
13	.1568	27.3	Qp	9.4	.1	10	46.8	-	-	65.63	-18.83
15	.2085	25.6	Qp	9.4	0	10	45	-	-	63.26	-18.26
17	.2603	22.5	Qp	9.4	0	10	41.9	-	-	61.42	-19.52
19	.3143	19.81	Qp	9.3	0	10	39.11	-	-	59.86	-20.75
21	.366	16.56	Qp	9.3	0	10	35.86	-	-	58.59	-22.73
23	.5235	11.79	Qp	9.3	0	10	31.09	-	-	56	-24.91

Qp - Quasi-Peak detector
Ca - CISPR average detection

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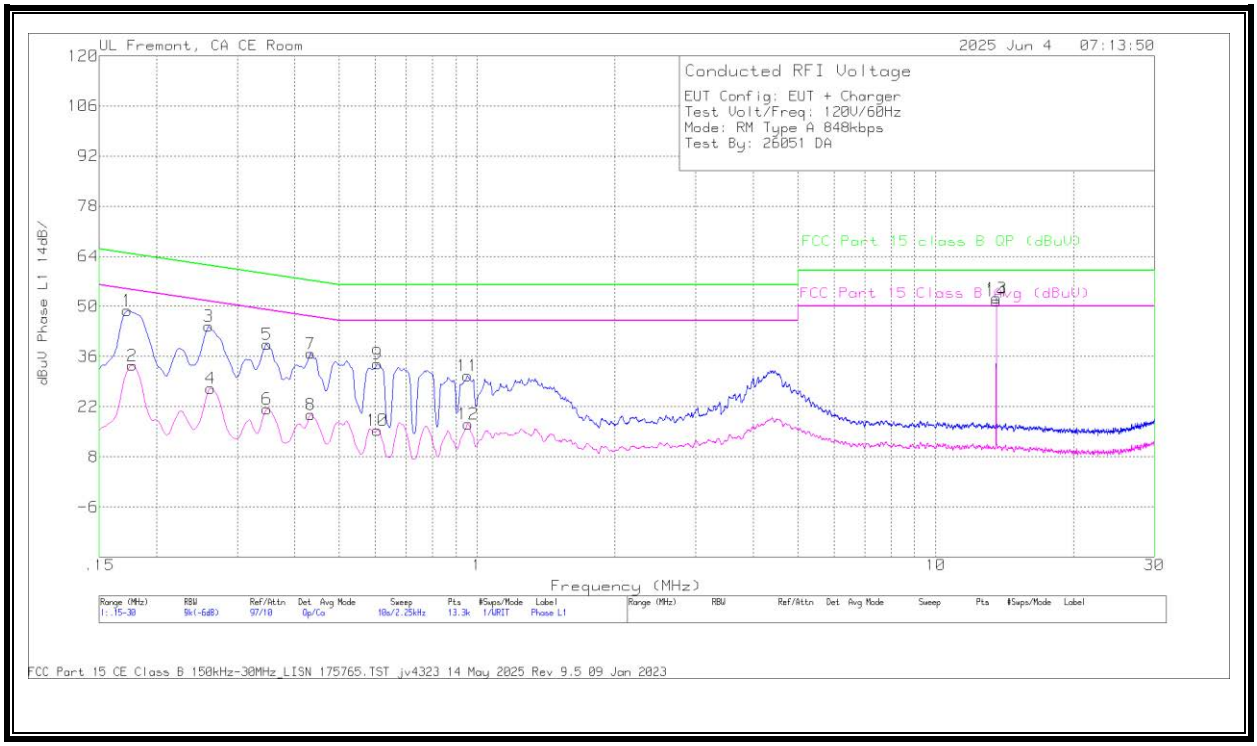
11.1.5. TAG MODE: Type A, 848kbps

NORMAL OPERATION

LINE 1 RESULTS



Worst Emission

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.177	14.72	Ca	.3	.1	8.4	10	33.52	54.63	-21.11	-	-
4	.2625	8.97	Ca	-.1	0	8.2	10	27.07	51.35	-24.28	-	-
6	.348	3.37	Ca	-.4	0	8.4	10	21.37	49.01	-27.64	-	-
8	.4335	1.02	Ca	0	0	8.7	10	19.72	47.19	-27.47	-	-
10	.6068	-2.74	Ca	-.1	0	8.2	10	15.36	46	-30.64	-	-
12	.9555	-1.47	Ca	.3	0	8.3	10	17.13	46	-28.87	-	-
14	13.56	32.99	Ca	.2	.1	8.2	10	51.49	**50**	**1.49**	-	-
1	.1725	29.94	Qp	.3	.1	8.5	10	48.84	-	-	64.84	-16
3	.2603	26.34	Qp	-.1	0	8.2	10	44.44	-	-	61.42	-16.98
5	.348	21.44	Qp	-.4	0	8.4	10	39.44	-	-	59.01	-19.57
7	.4335	18.15	Qp	0	0	8.7	10	36.85	-	-	57.19	-20.34
9	.6068	15.81	Qp	-.1	0	8.2	10	33.91	-	-	56	-22.09
11	.9533	11.99	Qp	.3	0	8.3	10	30.59	-	-	56	-25.41
13	13.56	33.79	Qp	.2	.1	8.2	10	52.29	-	-	60	-7.71

Qp - Quasi-Peak detector
Ca - CISPR average detection

Note: 13.56MHz is a fundamental frequency of the EUT. Data under the following section 11.1.6 indicates that when the antenna terminal is terminated, the fundamental amplitude is below the limit line.

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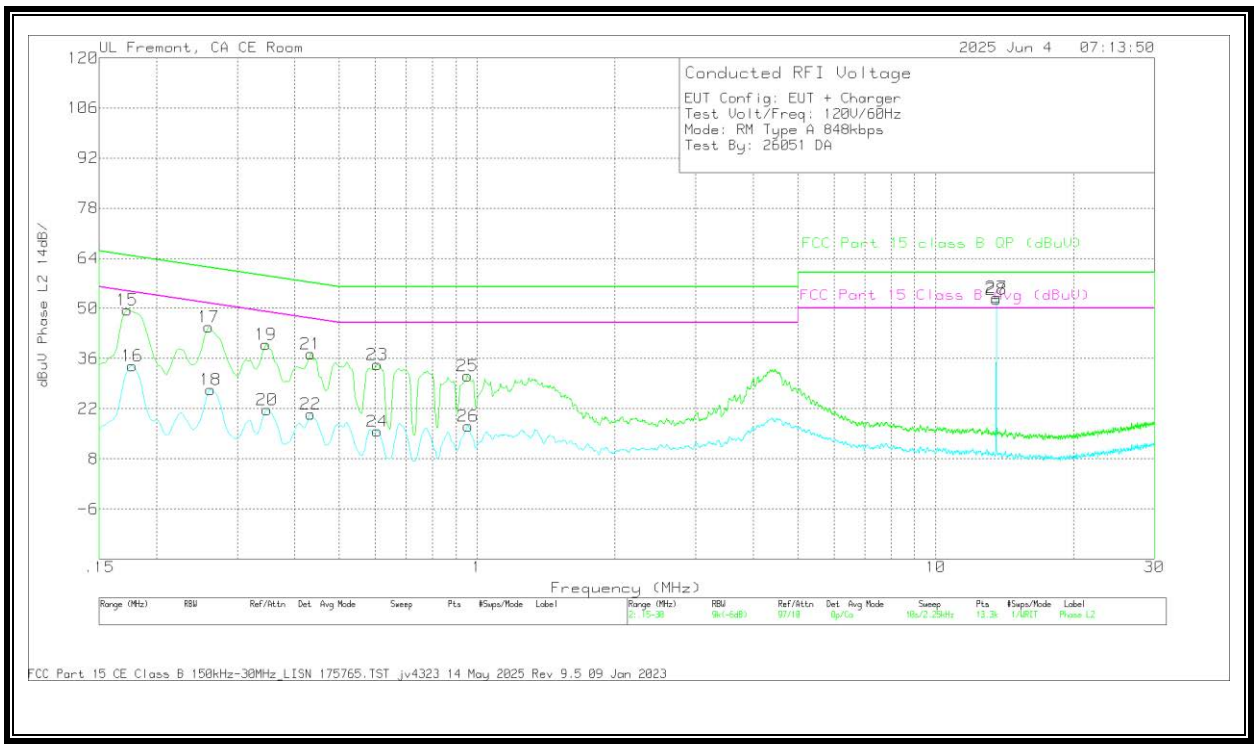
LINE 2 RESULTS



Worst Emission

Trace Markers

Range 2: Phase L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
16	.177	15.23	Ca	.3	0	8.4	10	33.93	54.63	-20.7	-	-
18	.2625	9.26	Ca	-.1	0	8.2	10	27.36	51.35	-23.99	-	-
20	.348	3.66	Ca	-.4	0	8.4	10	21.66	49.01	-27.35	-	-
22	.4335	1.79	Ca	0	0	8.7	10	20.49	47.19	-26.7	-	-
24	.6068	-2.44	Ca	-.1	0	8.2	10	15.66	46	-30.34	-	-
26	.9555	-1.47	Ca	.3	0	8.3	10	17.13	46	-28.87	-	-
28	13.56	34.08	Ca	.2	.1	8.2	10	52.58	**50**	**2.58**	-	-
15	.1725	30.81	Qp	.3	0	8.5	10	49.61	-	-	64.84	-15.23
17	.2603	26.71	Qp	-.1	0	8.2	10	44.81	-	-	61.42	-16.61
19	.3458	21.88	Qp	-.4	0	8.4	10	39.88	-	-	59.06	-19.18
21	.4335	18.55	Qp	0	0	8.7	10	37.25	-	-	57.19	-19.94
23	.6068	16.24	Qp	-.1	0	8.2	10	34.34	-	-	56	-21.66
25	.9533	12.59	Qp	.3	0	8.3	10	31.19	-	-	56	-24.81
27	13.56	34.62	Qp	.2	.1	8.2	10	53.12	-	-	60	-6.88

Qp - Quasi-Peak detector
Ca - CISPR average detection

Note: 13.56MHz is a fundamental frequency of the EUT. Data under the following section 11.1.6 indicates that when the antenna terminal is terminated, the fundamental amplitude is below the limit line.

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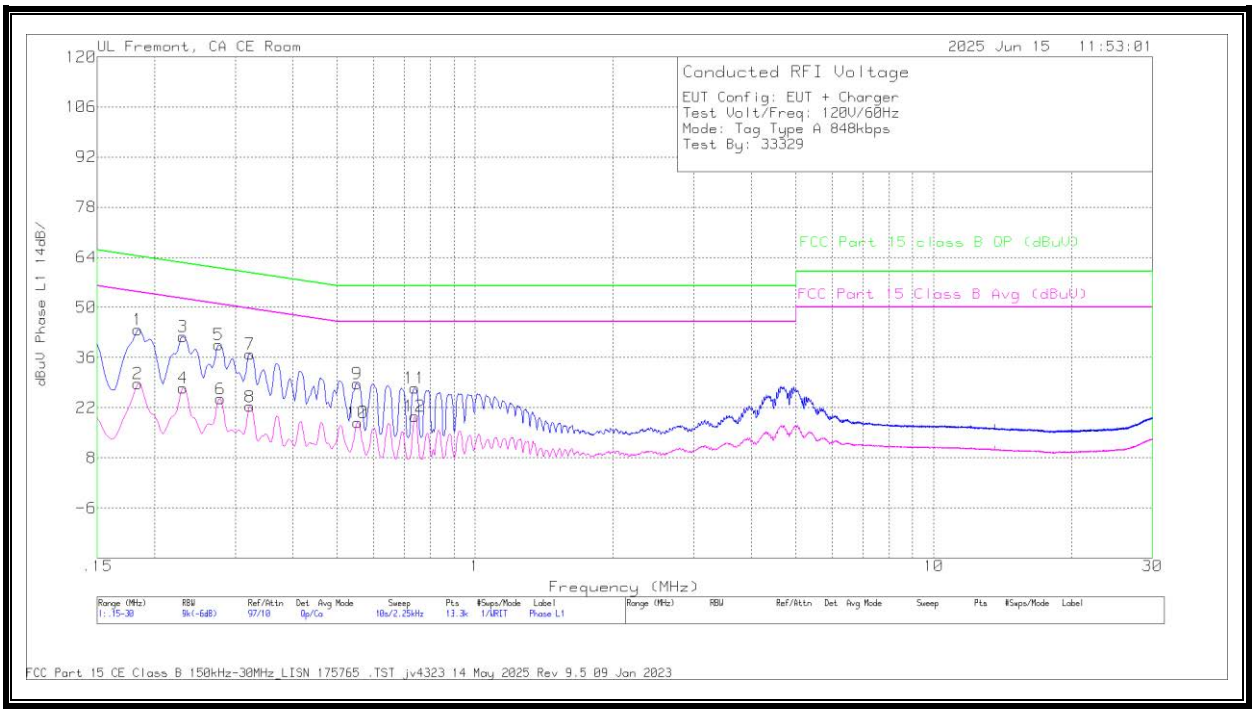
11.1.6. TAG MODE: Type A, 848 Kbps (ANTENNA PORT TERMINATED)

LINE 1 RESULTS



Worst Emission

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 1 C3_C1_Limit er no Pad_UL (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1838	9.21	Ca	9.4	.1	10	28.71	54.31	-25.6	-	-
4	.231	8.06	Ca	9.4	0	10	27.46	52.41	-24.95	-	-
6	.2783	5.02	Ca	9.4	0	10	24.42	50.87	-26.45	-	-
8	.3233	2.91	Ca	9.4	0	10	22.31	49.62	-27.31	-	-
10	.555	-1.39	Ca	9.3	0	10	17.91	46	-28.09	-	-
12	.7395	.2	Ca	9.4	0	10	19.6	46	-26.4	-	-
1	.1838	24.33	Qp	9.4	.1	10	43.83	-	-	64.31	-20.48
3	.231	22.44	Qp	9.4	0	10	41.84	-	-	62.41	-20.57
5	.276	20.12	Qp	9.4	0	10	39.52	-	-	60.94	-21.42
7	.3233	17.55	Qp	9.4	0	10	36.95	-	-	59.62	-22.67
9	.5528	9.41	Qp	9.3	0	10	28.71	-	-	56	-27.29
11	.7395	8.03	Qp	9.4	0	10	27.43	-	-	56	-28.57

Qp - Quasi-Peak detector
Ca - CISPR average detection

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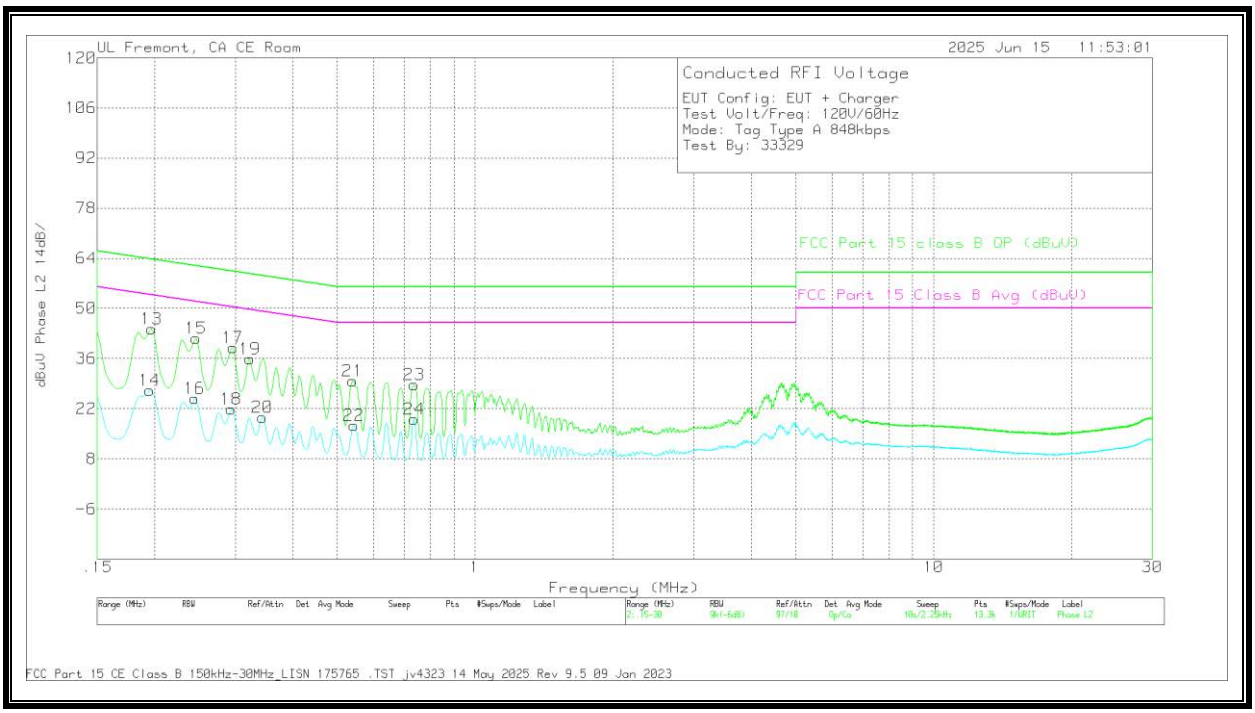
LINE 2 RESULTS



Worst Emission

Trace Markers

Range 2: Phase L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 2 C3_C2_Limiter no Pad_UL (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
14	.195	7.67	Ca	9.4	0	10	27.07	53.82	-26.75	-	-
16	.2445	5.46	Ca	9.4	0	10	24.86	51.94	-27.08	-	-
18	.294	2.61	Ca	9.3	0	10	21.91	50.41	-28.5	-	-
20	.3435	.23	Ca	9.3	0	10	19.53	49.12	-29.59	-	-
22	.5438	-2.05	Ca	9.3	0	10	17.25	46	-28.75	-	-
24	.7373	-.16	Ca	9.3	0	10	19.14	46	-26.86	-	-
13	.1973	24.91	Qp	9.4	0	10	44.31	-	-	63.73	-19.42
15	.2468	22.29	Qp	9.4	0	10	41.69	-	-	61.87	-20.18
17	.2963	19.69	Qp	9.3	0	10	38.99	-	-	60.35	-21.36
19	.3233	16.65	Qp	9.3	0	10	35.95	-	-	59.62	-23.67
21	.5415	10.53	Qp	9.3	0	10	29.83	-	-	56	-26.17
23	.7373	9.36	Qp	9.3	0	10	28.66	-	-	56	-27.34

Qp - Quasi-Peak detector
Ca - CISPR average detection

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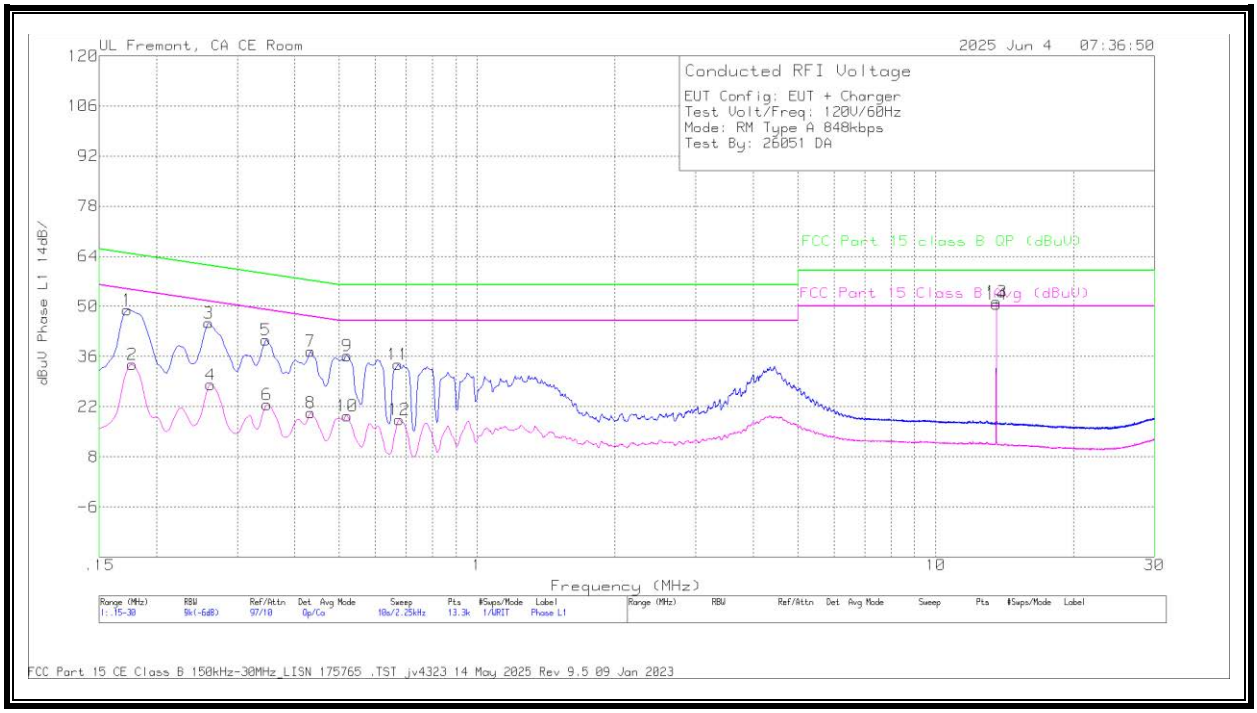
11.2. SECONDARY ANTENNA

11.2.1. READER MODE: TYPE A

LINE 1 RESULTS



Worst Emission

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 1 C3_C1_Limit er no Pad_UL (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.177	14.27	Ca	9.4	.1	10	33.77	54.63	-20.86	-	-
4	.2625	8.7	Ca	9.4	0	10	28.1	51.35	-23.25	-	-
6	.348	3.12	Ca	9.4	0	10	22.52	49.01	-26.49	-	-
8	.4335	.85	Ca	9.4	0	10	20.25	47.19	-26.94	-	-
10	.5213	.16	Ca	9.3	0	10	19.46	46	-26.54	-	-
12	.6765	-.97	Ca	9.3	0	10	18.33	46	-27.67	-	-
14	13.56	30.95	Ca	9.5	.1	10	50.55	**50**	**.55**	-	-
1	.1725	29.58	Qp	9.4	.1	10	49.08	-	-	64.84	-15.76
3	.2603	26.03	Qp	9.4	0	10	45.43	-	-	61.42	-15.99
5	.3458	21.21	Qp	9.4	0	10	40.61	-	-	59.06	-18.45
7	.4335	18.01	Qp	9.4	0	10	37.41	-	-	57.19	-19.78
9	.5213	16.95	Qp	9.3	0	10	36.25	-	-	56	-19.75
11	.6731	14.42	Qp	9.3	0	10	33.72	-	-	56	-22.28
13	13.56	31.79	Qp	9.5	.1	10	51.39	-	-	60	-8.61

Qp - Quasi-Peak detector
Ca - CISPR average detection

Note: 13.56MHz is a fundamental frequency of the EUT. Data under the following section 11.2.2 indicates that when the antenna terminal is terminated, the fundamental amplitude is below the limit line.

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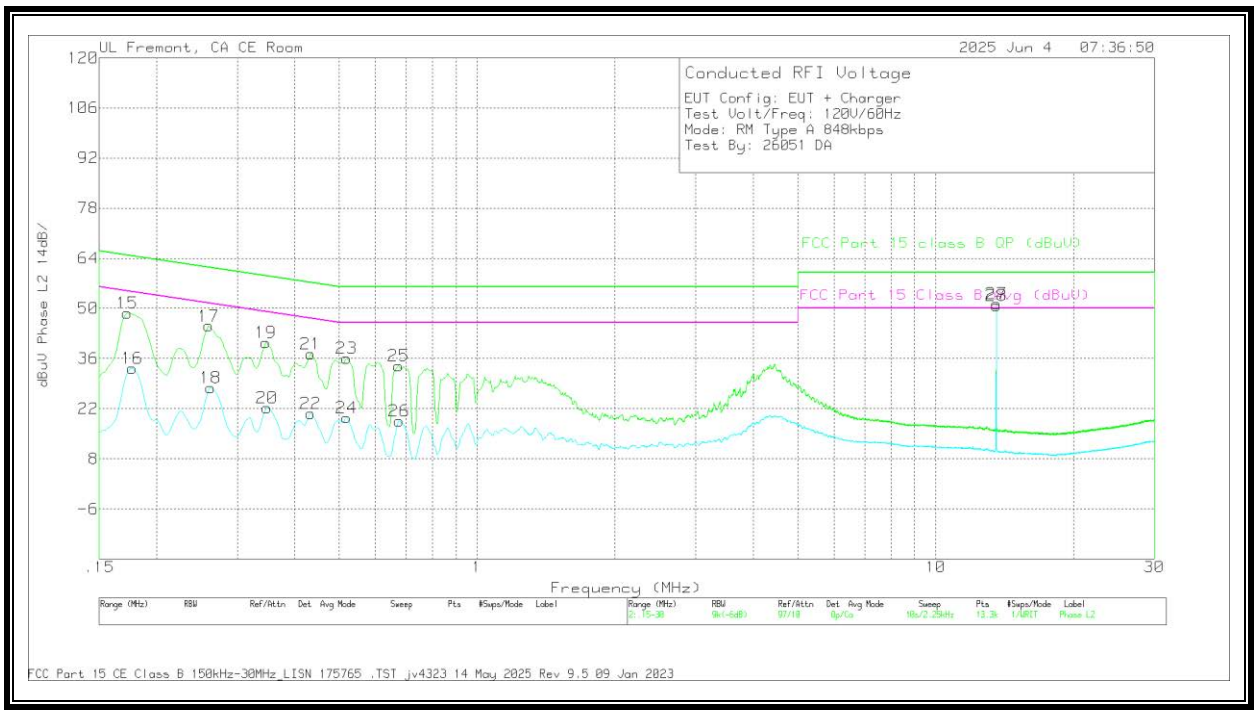
LINE 2 RESULTS



Worst Emission

Trace Markers

Range 2: Phase L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 1 C3_C1_Limiter no Pad_UL (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
16	.177	13.88	Ca	9.4	0	10	33.28	54.63	-21.35	-	-
18	.2625	8.42	Ca	9.4	0	10	27.82	51.35	-23.53	-	-
20	.348	2.98	Ca	9.3	0	10	22.28	49.01	-26.73	-	-
22	.4335	1.32	Ca	9.3	0	10	20.62	47.19	-26.57	-	-
24	.519	.2	Ca	9.3	0	10	19.5	46	-26.5	-	-
26	.6765	-.7	Ca	9.3	0	10	18.6	46	-27.4	-	-
28	13.56	31.13	Ca	9.5	.1	10	50.73	**50**	**.73**	-	-
15	.1725	29.35	Qp	9.4	0	10	48.75	-	-	64.84	-16.09
17	.2603	25.69	Qp	9.4	0	10	45.09	-	-	61.42	-16.33
19	.3458	21.09	Qp	9.3	0	10	40.39	-	-	59.06	-18.67
21	.4335	18.06	Qp	9.3	0	10	37.36	-	-	57.19	-19.83
23	.519	16.83	Qp	9.3	0	10	36.13	-	-	56	-19.87
25	.6743	14.65	Qp	9.3	0	10	33.95	-	-	56	-22.05
27	13.56	31.68	Qp	9.5	.1	10	51.28	-	-	60	-8.72

Qp - Quasi-Peak detector
Ca - CISPR average detection

Note: 13.56MHz is a fundamental frequency of the EUT. Data under the following section 11.2.4 indicates that when the antenna terminal is terminated, the fundamental amplitude is below the limit line.

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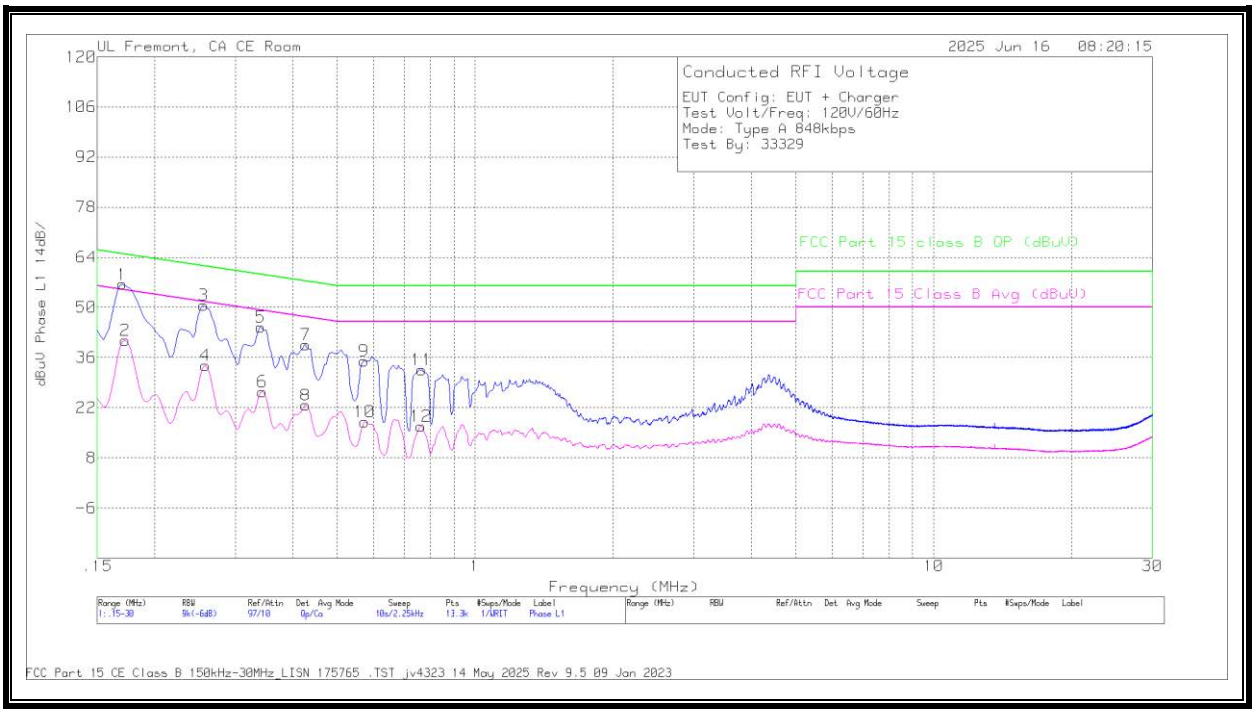
11.2.2. READER MODE: Type A, 848 Kbps (ANTENNA PORT TERMINATED)

LINE 1 RESULTS



Worst Emission

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 1 C3_C1_Limit er no Pad_UL (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1725	21.35	Ca	9.4	.1	10	40.85	54.84	-13.99	-	-
4	.258	14.33	Ca	9.4	0	10	33.73	51.5	-17.77	-	-
6	.3435	7.04	Ca	9.4	0	10	26.44	49.12	-22.68	-	-
8	.4268	3.37	Ca	9.3	0	10	22.67	47.32	-24.65	-	-
10	.5753	-1.32	Ca	9.3	0	10	17.98	46	-28.02	-	-
12	.762	-2.54	Ca	9.4	0	10	16.86	46	-29.14	-	-
1	.1703	36.98	Qp	9.4	.1	10	56.48	-	-	64.95	-8.47
3	.2558	31.26	Qp	9.4	0	10	50.66	-	-	61.57	-10.91
5	.3413	25.14	Qp	9.4	0	10	44.54	-	-	59.17	-14.63
7	.4268	20.22	Qp	9.3	0	10	39.52	-	-	57.32	-17.8
9	.573	15.74	Qp	9.3	0	10	35.04	-	-	56	-20.96
11	.7654	13.23	Qp	9.4	0	10	32.63	-	-	56	-23.37
2	.1725	21.35	Ca	9.4	.1	10	40.85	54.84	-13.99	-	-
4	.258	14.33	Ca	9.4	0	10	33.73	51.5	-17.77	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

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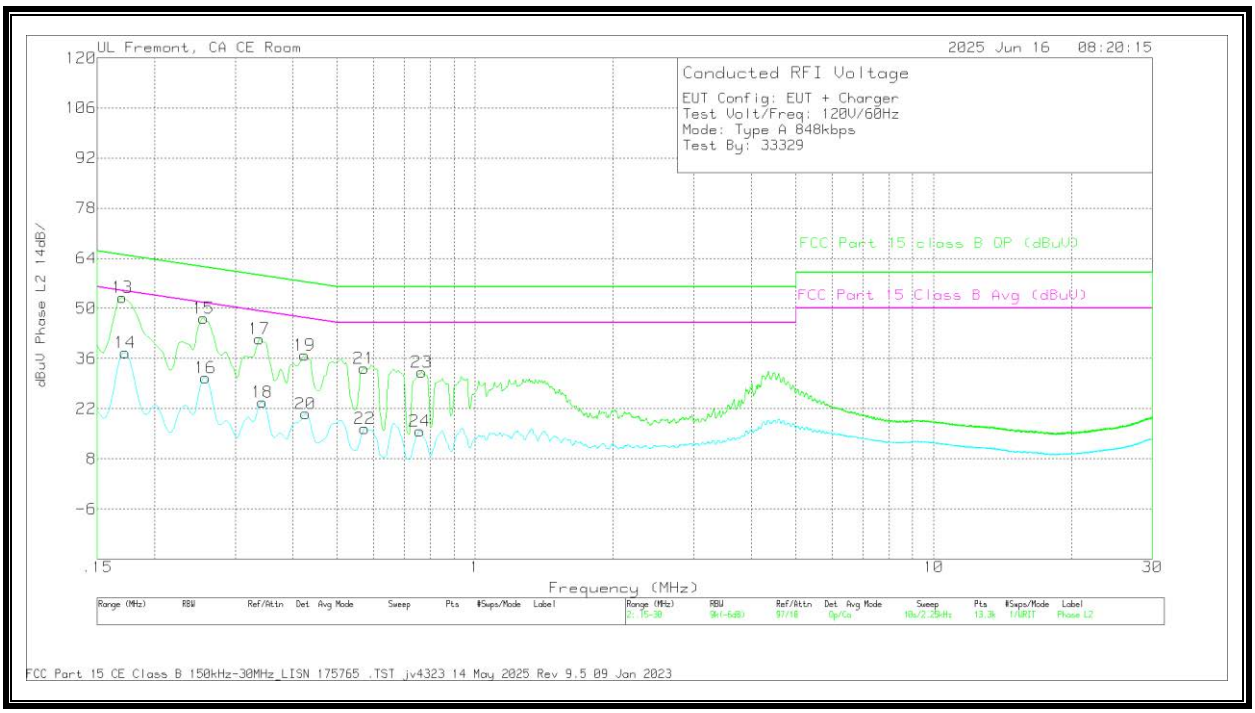
LINE 2 RESULTS



Worst Emission

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 1 C3_C1_Limiter no Pad_UL (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
14	.1725	18.29	Ca	9.4	0	10	37.69	54.84	-17.15	-	-
16	.258	11.24	Ca	9.4	0	10	30.64	51.5	-20.86	-	-
18	.3435	4.54	Ca	9.3	0	10	23.84	49.12	-25.28	-	-
20	.4268	1.27	Ca	9.3	0	10	20.57	47.32	-26.75	-	-
22	.5753	-2.8	Ca	9.3	0	10	16.5	46	-29.5	-	-
24	.7586	-3.49	Ca	9.3	0	10	15.81	46	-30.19	-	-
13	.1703	33.61	Qp	9.4	0	10	53.01	-	-	64.95	-11.94
15	.2558	27.83	Qp	9.4	0	10	47.23	-	-	61.57	-14.34
17	.339	22.17	Qp	9.3	0	10	41.47	-	-	59.23	-17.76
19	.4245	17.68	Qp	9.3	0	10	36.98	-	-	57.36	-20.38
21	.573	13.95	Qp	9.3	0	10	33.25	-	-	56	-22.75
23	.7643	12.94	Qp	9.3	0	10	32.24	-	-	56	-23.76
14	.1725	18.29	Ca	9.4	0	10	37.69	54.84	-17.15	-	-
16	.258	11.24	Ca	9.4	0	10	30.64	51.5	-20.86	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

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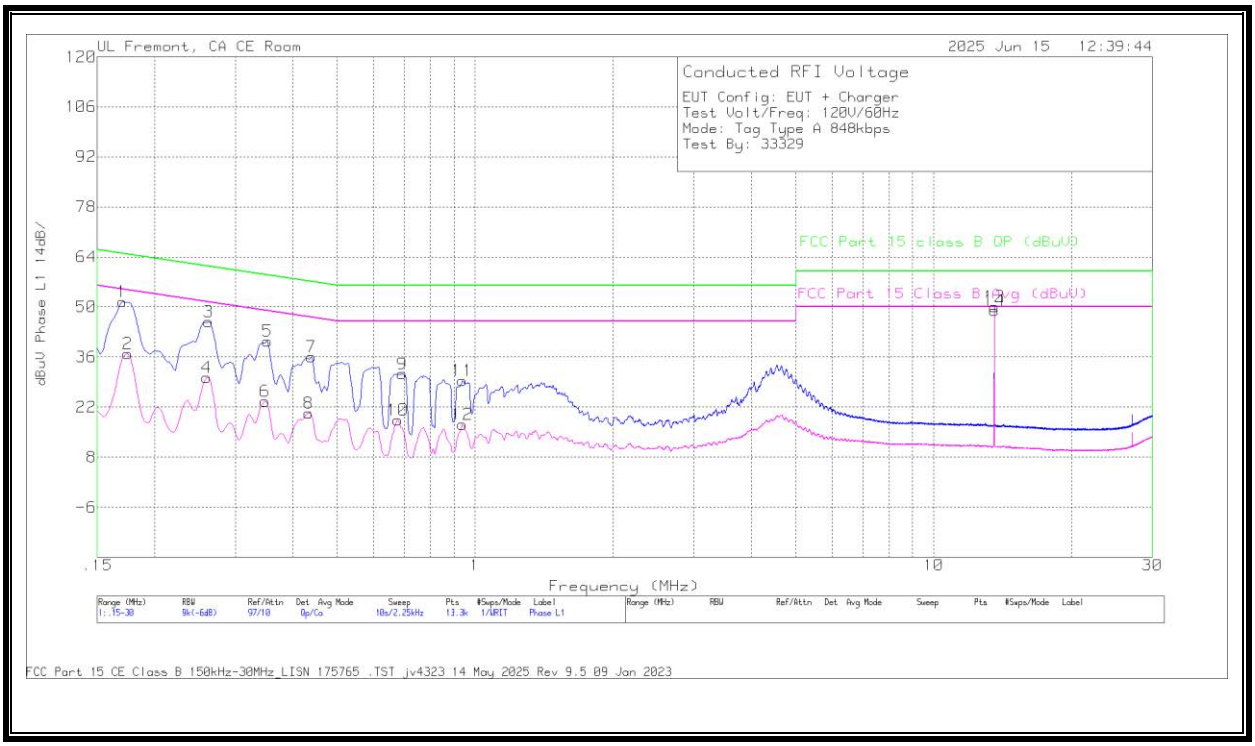
11.2.3. TAG MODE: Type A, 848 Kbps

LINE 1 RESULTS



Worst Emission

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 1 C3_C1_Limit er no Pad_UL (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1748	17.47	Ca	9.4	.1	10	36.97	54.73	-17.76	-	-
4	.2603	10.89	Ca	9.4	0	10	30.29	51.42	-21.13	-	-
6	.348	4.23	Ca	9.4	0	10	23.63	49.01	-25.38	-	-
8	.4335	.9	Ca	9.4	0	10	20.3	47.19	-26.89	-	-
10	.6788	-1.05	Ca	9.4	0	10	18.35	46	-27.65	-	-
12	.9398	-2.26	Ca	9.4	0	10	17.14	46	-28.86	-	-
14	13.56	29.49	Ca	9.5	.1	10	49.09	50	-.91	-	-
1	.1703	32	Qp	9.4	.1	10	51.5	-	-	64.95	-13.45
3	.2625	26.44	Qp	9.4	0	10	45.84	-	-	61.35	-15.51
5	.3525	21.06	Qp	9.4	0	10	40.46	-	-	58.9	-18.44
7	.4403	16.72	Qp	9.4	0	10	36.12	-	-	57.06	-20.94
9	.6945	11.86	Qp	9.4	0	10	31.26	-	-	56	-24.74
11	.9398	10.06	Qp	9.4	0	10	29.46	-	-	56	-26.54
13	13.56	30.49	Qp	9.5	.1	10	50.09	-	-	60	-9.91

Qp - Quasi-Peak detector
Ca - CISPR average detection

Note: 13.56MHz is a fundamental frequency of the EUT. Data under the following section 11.2.4 indicates that when the antenna terminal is terminated, the fundamental amplitude is below the limit line.

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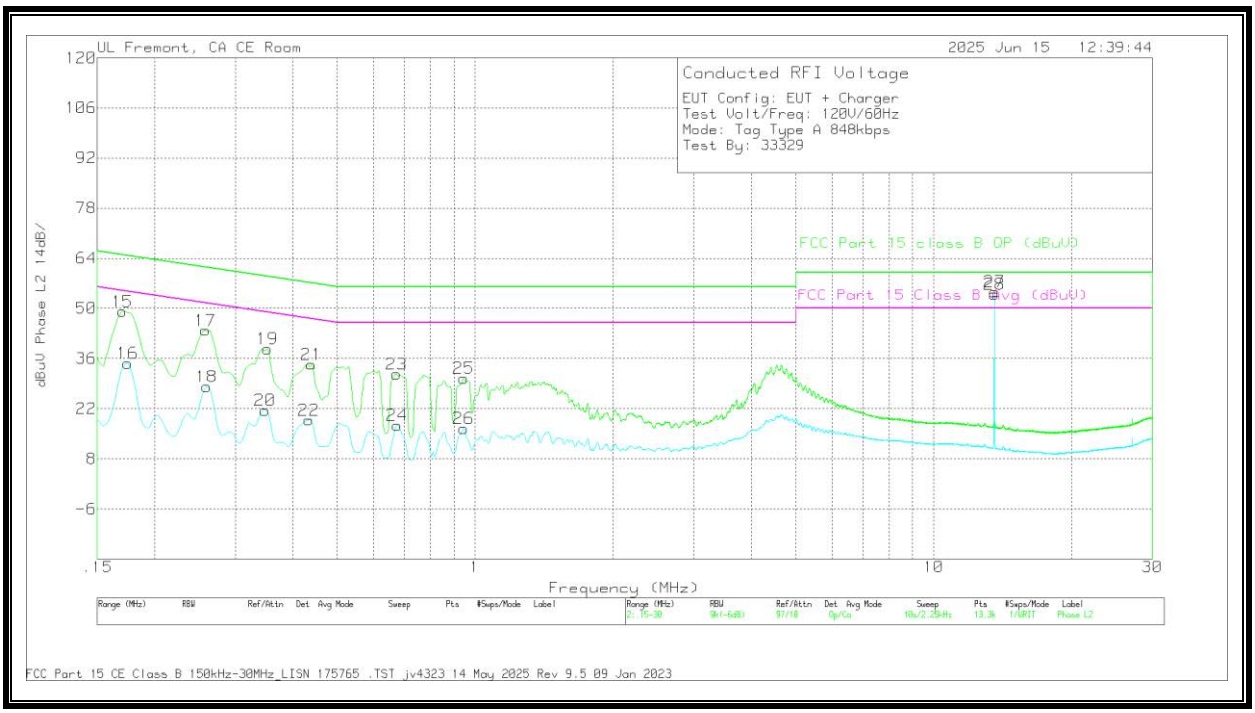
LINE 2 RESULTS



Worst Emission

Trace Markers

Range 2: Phase L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 2 C3_C2_Limit er no Pad_UL (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
16	.1748	15.2	Ca	9.4	0	10	34.6	54.73	-20.13	-	-
18	.2603	8.71	Ca	9.4	0	10	28.11	51.42	-23.31	-	-
20	.348	2.24	Ca	9.3	0	10	21.54	49.01	-27.47	-	-
22	.4346	-.5	Ca	9.3	0	10	18.8	47.16	-28.36	-	-
24	.6765	-2.02	Ca	9.3	0	10	17.28	46	-28.72	-	-
26	.9443	-2.83	Ca	9.3	0	10	16.47	46	-29.53	-	-
28	13.56	34.4	Ca	9.5	.1	10	54	**50**	**4**	-	-
15	.1703	29.72	Qp	9.4	0	10	49.12	-	-	64.95	-15.83
17	.258	24.46	Qp	9.4	0	10	43.86	-	-	61.5	-17.64
19	.3525	19.46	Qp	9.3	0	10	38.76	-	-	58.9	-20.14
21	.4403	15.09	Qp	9.3	0	10	34.39	-	-	57.06	-22.67
23	.6743	12.3	Qp	9.3	0	10	31.6	-	-	56	-24.4
25	.9443	11.19	Qp	9.3	0	10	30.49	-	-	56	-25.51
27	13.56	35.04	Qp	9.5	.1	10	54.64	-	-	60	-5.36

Qp - Quasi-Peak detector
Ca - CISPR average detection

Note: 13.56MHz is a fundamental frequency of the EUT. Data under the following section 11.2.4 indicates that when the antenna terminal is terminated, the fundamental amplitude is below the limit line.

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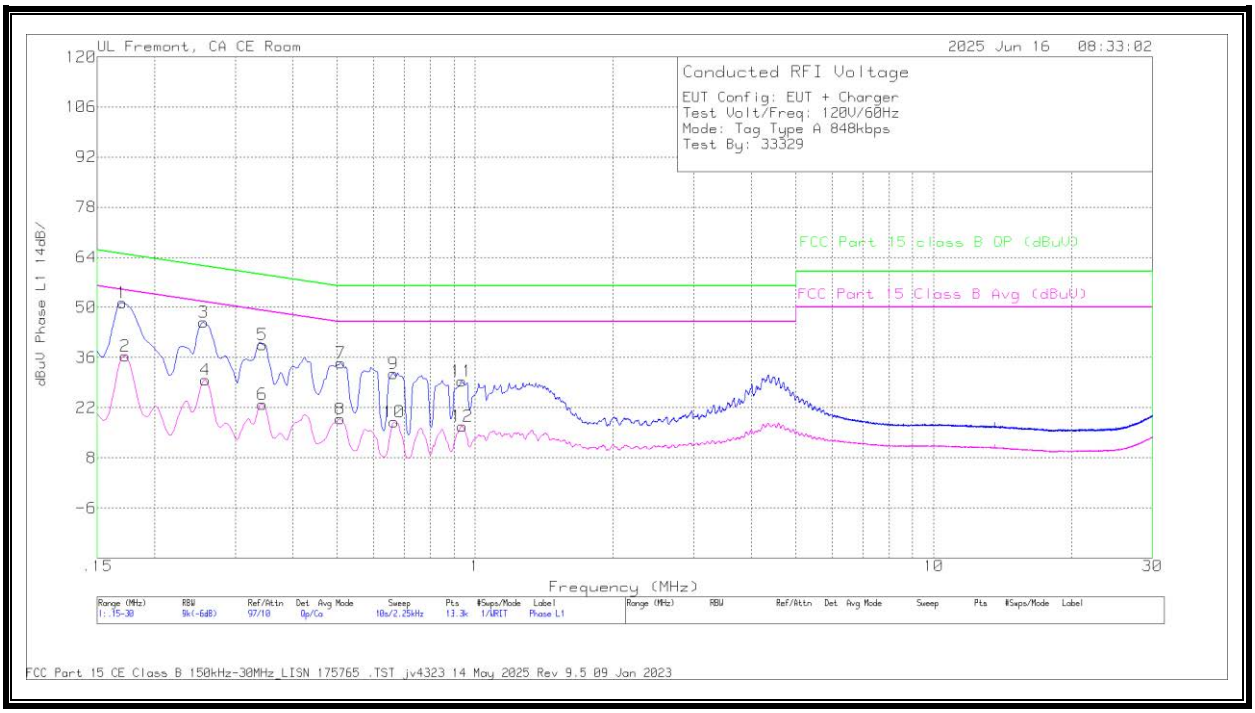
11.2.4. TAG MODE: Type A, 848 Kbps (ANTENNA PORT TERMINATED)

LINE 1 RESULTS



Worst Emission

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 1 C3_C1_Limit er no Pad_UL (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1725	21.35	Ca	9.4	.1	10	40.85	54.84	-13.99	-	-
4	.258	14.33	Ca	9.4	0	10	33.73	51.5	-17.77	-	-
6	.3435	7.04	Ca	9.4	0	10	26.44	49.12	-22.68	-	-
8	.4268	3.37	Ca	9.3	0	10	22.67	47.32	-24.65	-	-
10	.5753	-1.32	Ca	9.3	0	10	17.98	46	-28.02	-	-
12	.762	-2.54	Ca	9.4	0	10	16.86	46	-29.14	-	-
1	.1703	36.98	Qp	9.4	.1	10	56.48	-	-	64.95	-8.47
3	.2558	31.26	Qp	9.4	0	10	50.66	-	-	61.57	-10.91
5	.3413	25.14	Qp	9.4	0	10	44.54	-	-	59.17	-14.63
7	.4268	20.22	Qp	9.3	0	10	39.52	-	-	57.32	-17.8
9	.573	15.74	Qp	9.3	0	10	35.04	-	-	56	-20.96
11	.7654	13.23	Qp	9.4	0	10	32.63	-	-	56	-23.37
2	.1725	21.35	Ca	9.4	.1	10	40.85	54.84	-13.99	-	-
4	.258	14.33	Ca	9.4	0	10	33.73	51.5	-17.77	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

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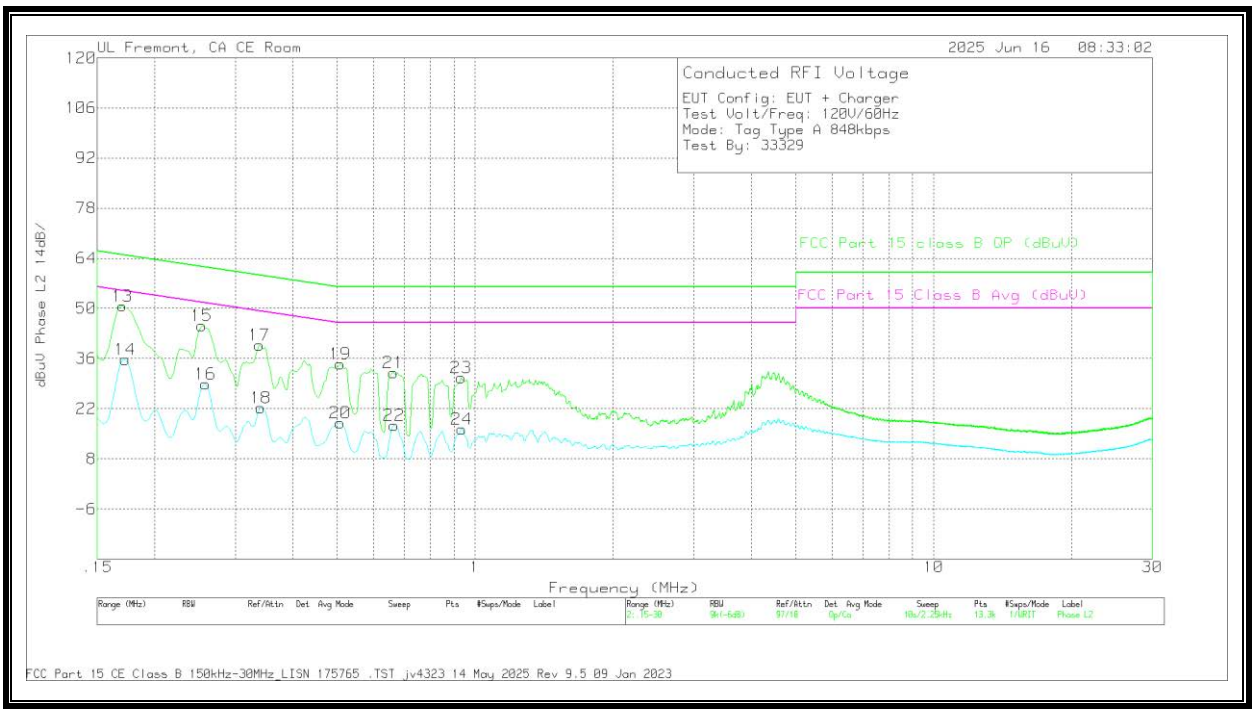
LINE 2 RESULTS



Worst Emission

Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Line 1 C3_C1_Limit er no Pad_UL (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
14	.1725	16.28	Ca	9.4	0	10	35.68	54.84	-19.16	-	-
16	.258	9.47	Ca	9.4	0	10	28.87	51.5	-22.63	-	-
18	.3413	2.96	Ca	9.3	0	10	22.26	49.17	-26.91	-	-
20	.5078	-1.33	Ca	9.3	0	10	17.97	46	-28.03	-	-
22	.6653	-1.93	Ca	9.3	0	10	17.37	46	-28.63	-	-
24	.9353	-3.05	Ca	9.3	0	10	16.25	46	-29.75	-	-
13	.1703	31.29	Qp	9.4	0	10	50.69	-	-	64.95	-14.26
15	.2535	25.72	Qp	9.4	0	10	45.12	-	-	61.64	-16.52
17	.339	20.43	Qp	9.3	0	10	39.73	-	-	59.23	-19.5
19	.5078	15.15	Qp	9.3	0	10	34.45	-	-	56	-21.55
21	.663	12.8	Qp	9.3	0	10	32.1	-	-	56	-23.9
23	.933	11.32	Qp	9.3	0	10	30.62	-	-	56	-25.38
14	.1725	16.28	Ca	9.4	0	10	35.68	54.84	-19.16	-	-
16	.258	9.47	Ca	9.4	0	10	28.87	51.5	-22.63	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

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12. SETUP PHOTOS

Please refer to 15496224-EP1V1 for setup photos.

APPENDIX A – SPOT CHECK EVALUATION

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1. SPOT CHECK EVALUATION

1.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3256, A3522, A3523 and A3524.

These models have the same PCB layout, design, common components, antennas, antenna locations and housing cases, except for FR2 is removed from variants and disabled/enabled cellular bands via software as shown below.

Model	FCC ID	IC ID	Feature Difference	Sim Support	Reference Model
A3256	BCG-E8949A	579C-E8949A	-With FR2/LTE/5GNR B14/29/71 -No B11/21 -With UL MIMO (n41/48/77)	eSIM	-
A3522	BCG-E8957A	579C-E8957A	-Without FR2 -Added B11/21 -No UL MIMO	eSIM	A3256
A3523	BCG-E8958A	579C-E8958A	-Without FR2 -No LTE/5GNR B14/29/71 -No LTE B11/21 -No UL MIMO	eSIM+pSIM	
A3524	BCG-E8959A	579C-E8959A	-Without FR2 -No LTE/5GNR B14/29/71 -No LTE B11/21 -With UL MIMO (n41/78/79) -No MSS / 5GNR B53	pSIM+pSIM	

Note:

The spot check plan allows for data reuse from the reference model where the variant model data meets the limits and has not changed by more than the criteria from KDB 484596 D01 v03 equation (4).

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20)\ dB & \text{, for } 0 \le M_{dB} \le 60\ dB \\ 6\ \text{dB} & \text{, for } M_{dB} > 60\ \text{dB} \end{cases} \quad (4)$$

Where: d_{dB} deviation from Reference data, V_{dB} variant spot check level, and R_{dB} measurement level

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1.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3522

A3522 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3256 FCC ID : BCG-E8949A IC : 579C-E8949A	Sub Model: A3522 FCC ID: BCG-E8957A IC : 579C-E8957A	Delta (dB or MHz)	Margin	Remarks
DXX / NFC (FCC/IC)	Operating	E-field (30m distance) FCC (dBµV/m)	13.56	28.96	28.06	-0.90	-55.94	Note 1
		Out-Of-Band Emissions (dBuV/m)	30 - 1000 (~40.6MHz)	38.05	34.47	-3.58	-5.53	Note 2

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.
Note 2: Full test performed as the delta between reference and variant models exceeds those allowed for data referencing. Please see below for test data.

1.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3523

A3523 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3256 FCC ID : BCG-E8949A IC : 579C-E8949A	Sub Model: A3523 FCC ID: BCG-E8958A IC : 579C-E8958A	Delta (dB or MHz)	Margin	Remarks
DXX / NFC (FCC/IC)	Operating	E-field (30m distance) FCC (dBµV/m)	13.56	28.96	29.58	0.62	-54.42	Note 1
		Out-Of-Band Emissions (dBuV/m)	30 - 1000 (~40.6MHz)	38.05	36.84	-1.21	-3.16	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.
Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596.
The value for the variant model is the maximized signal level across all three device orientations.

1.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3524

A3524 SPOT CHECK RESULTS								
Equipment Class / Technology	Worst Mode	Test Item	Measured Frequency (MHz)	Original Model: A3256 FCC ID : BCG-E8949A IC : 579C-E8949A	Sub Model: A3524 FCC ID: BCG-E8959A IC : 579C-E8959A	Delta (dB or MHz)	Margin	Remarks
DXX / NFC (FCC/IC)	Operating	E-field (30m distance) FCC (dBµV/m)	13.56	28.96	29.19	0.23	-54.81	Note 1
		Out-Of-Band Emissions (dBuV/m)	30 - 1000 (~40.6MHz)	38.05	36.69	-1.36	-3.31	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.
Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596.
The value for the variant model is the maximized signal level across all three device orientations.

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