

TEST REPORT

Report Number: R16215818-E3

Applicant : Microsoft Corporation
One Microsoft Way
Redmond, Washington
United States 98052-6399

Model : 2149

FCC ID : C3K2149

IC : 3048A-2149

EUT Description : Portable Computing Device

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C: 2026
RSS-210 ISSUE 11: 2024
RSS-GEN ISSUE 5 + A1 + A2: 2021

Date Of Issue:
2026-07-07

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2026-07-07	Initial Issue	Manish Baral

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Microsoft Corporation
One Microsoft Way
Redmond, Washington
United States 98052-6399

EUT DESCRIPTION: Portable Computing Device

MODEL: 2149

SERIAL NUMBER: 0F4TDYV26093WK

SAMPLE RECEIPT DATE: 2026-04-07

DATE TESTED: 2026-05-20 TO 2026-07-07

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C: 2026	
ISED RSS-210 Issue 11: 2024	Refer to Section 3
ISED RSS-GEN Issue 5 + A1 + A2: 2021	

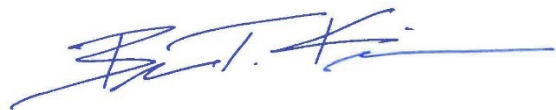
UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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 LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC 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, or any agency of the U.S. government.

Approved & Released
For UL LLC By:

Prepared By:



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Sr. Project Engineer
Consumer, Medical and IT Segment
UL LLC



Manish Baral
Engineer
Consumer, Medical and IT Segment
UL LLC

2. TEST METHODOLOGY

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

- FCC ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- ISED ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
- FCC 47 CFR Part 2
- FCC 47 CFR Part 15C
- RSS-GEN Issue 5 + A1 + A2: 2021
- RSS-210 Issue 11: 2024
- KDB 414788 D01 Radiated Test Site v01r01

3. SUMMARY OF TEST RESULTS

Requirement Description	Requirement Clause Number	Result	Remarks
Occupied Bandwidth	FCC §15.215 (c) RSS-Gen 6.7	Compliant	None
Fundamental Measurements.	FCC §15.225 (a-d) FCC §15.209 (d)		
Tx Spurious Emissions	IC RSS-210, Annex B.6 IC RSS-GEN, Section 8.9 (Transmitter)		
Frequency Stability	FCC §15.225 (e) RSS-210, Annex B.6		
AC Mains Line Conducted Emissions	FCC §15.207 IC RSS-GEN, Section 8.8		

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, Certificate Number #0751.06, 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: 12 Laboratory Dr Durham, NC 27713, U.S.A	US0067	2180C	825374
☒	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A		27265	

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. 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.

5.2. 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.)

5.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Radio Frequency (Spectrum Analyzer)	141.2 Hz
Occupied Channel Bandwidth	1.22%
RF output power, conducted	1.3 dB (PK) 0.45 dB (AV)
Power Spectral Density, conducted	2.47 dB
Unwanted Emissions, conducted	1.94 dB
All emissions, radiated	6.01 dB
Conducted Emissions (0.150-30MHz) - LISN	3.40 dB
Temperature	0.57°C
Humidity	3.39%
DC Supply voltages	1.70%
Time	3.39%

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

5.4. 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)

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

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.

$$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$$

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a Portable Computing Device. This report covers the full testing of the NFC radio.

6.2. MAXIMUM ELECTRIC FIELD STRENGTH

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

Fundamental Frequency (MHz)	E-Field at 30m (dBuV/m)
13.56	8.36

6.3. SOFTWARE AND FIRMWARE

SW Version: 10.0.28000 Build 28000

FW Version: NFC SPB Peripheral Driver V1.0.3.0

6.4. WORST-CASE CONFIGURATION AND MODE

The EUT was investigated in three orthogonal orientations: X, Y, and Z. The Z orientation was determined to be the worst-case orientation. Therefore, all final radiated testing was performed with the EUT in the Z orientation.

In addition, the manufacturer provided maximum output power scripts allowing for the testing of Type A, B, AB, AF, and F were investigated and it was determined that Type B, 106kbps was worst case; therefore, Type B was selected for all final tests.

6.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Power Adapter	Microsoft	2105	0C130X03XFD5B	N/A

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Proprietary	1	Proprietary	Shielded	<3m	Charges to USB C

SETUP DIAGRAM

Please refer to R16215818-EP1 for setup diagrams

7. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
Conducted Room 1					
90410	Spectrum Analyzer	Keysight Technologies	N9030A	2025-07-10	2026-07-10
76023	Temp/Humid Chamber	Cincinnati Sub-Zero	ZPH-8-3.5-SCT/AC	2026-01-29	2027-01-29
245765	Environmental Meter	Control Company	06-662-4	2026-03-10	2027-03-10
SOFTEMI	Antenna Port Software	UL	Version 2022.8.16	NA	NA
NA	NFC Probe Kit	EMCO	7405	NA	NA

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 1)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
0.009-30MHz					
65682	Active Loop Antenna	ETS-Lindgren	6502	2025-10-14	2027-10-14
	30-1000 MHz				
90629	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2026-03-16	2028-03-16
	Gain-Loss Chains				
**91974	Gain-loss string: 0.009-30MHz	Various	Various	2025-05-31	2026-05-31
**91976	Gain-loss string: 25-1000MHz	Various	Various	2025-05-31	2026-05-31
	Receiver & Software				
206496	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-07-29	2026-07-29
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
241205	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05

****NOTE:** At the time of testing, all equipment was in calibration.

Test Equipment Used - Line-Conducted Emissions – Voltage (Morrisville – Conducted 1)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
CBL087	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3W06143-240	2026-05-11	2027-05-11
179892	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2026-08-05
80391	LISN, 50-ohm/50-uH, 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50-25-2-01-550V	2025-08-01	2026-08-01
75141	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2025-07-30	2026-07-30
52859	Transient Limiter, 0.009-100MHz	Electro-Metrics	EM-7600	2026-05-11	2027-05-11
PS214	AC Power Source	Elgar	CW2501M	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Miscellaneous (if needed)					
84681	ANSI C63.4 1m extension cable.	UL	Per Annex B of ANSI C63.4	2026-05-11	2027-05-11

8. 20dB and 99% BANDWIDTH

LIMITS

§15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

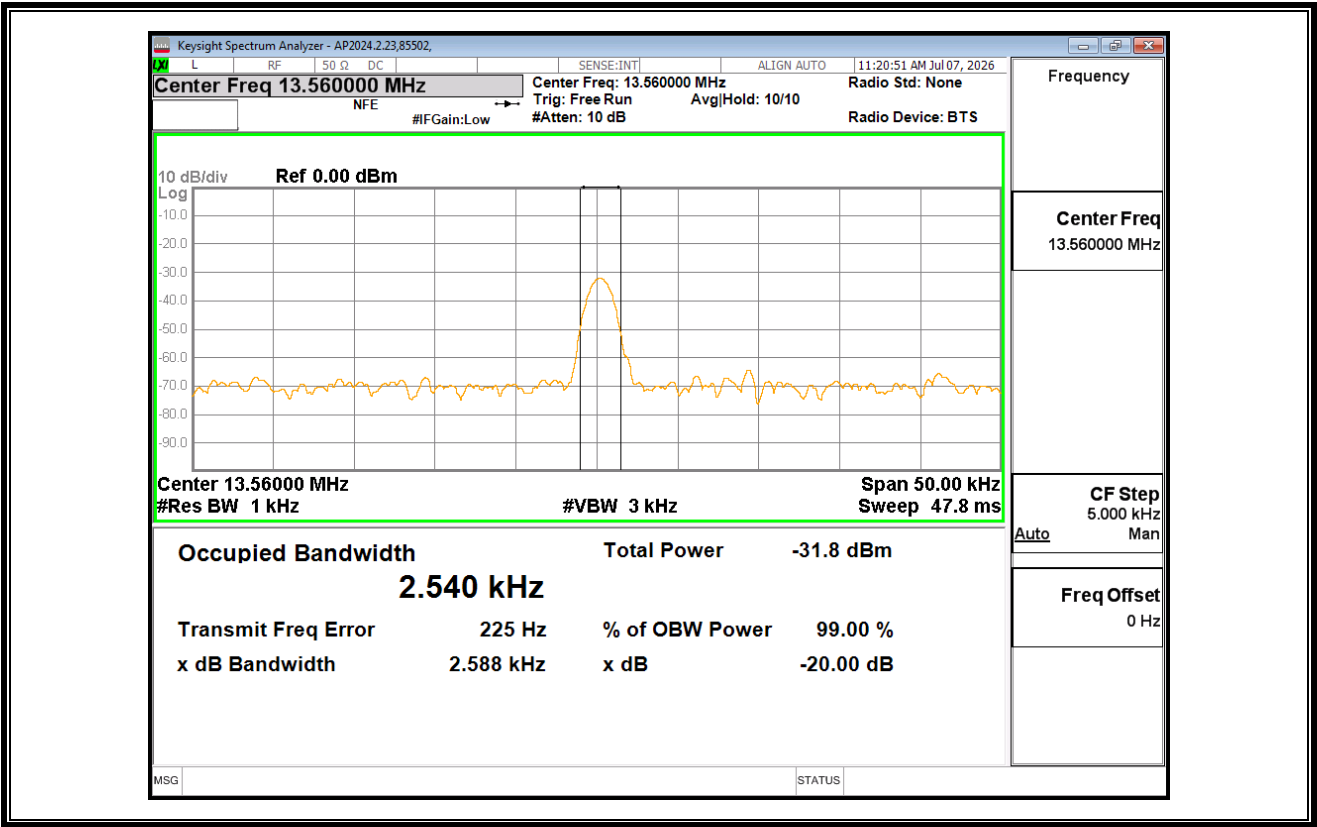
TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1-5% of the 20dB bandwidth. 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-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW. A minimum RBW of 100Hz is maintained per C63.10 Amendment 1 guidelines for operation in this frequency range.

RESULTS

Mode	Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)
Type B	13.56	2.588	2.540



9. RADIATED EMISSION TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMIT

FCC §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		
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

RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uA/m) at 3 m	Field Strength Limit (dBuA/m) at 3 m
0.009-0.490	6.37/F(kHz) @ 300 m	-
0.490-1.705	63.7/F(kHz) @ 30 m	-
1.705 - 30	0.08 @ 30m	-
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

** 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)

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

The 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 9kHz to the 10th harmonic of the highest fundamental frequency, or 1000 MHz, whichever is greater.

Note: For all Below 30MHz test data, all measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were $40 \cdot \log(\text{test distance} / \text{specification distance})$.

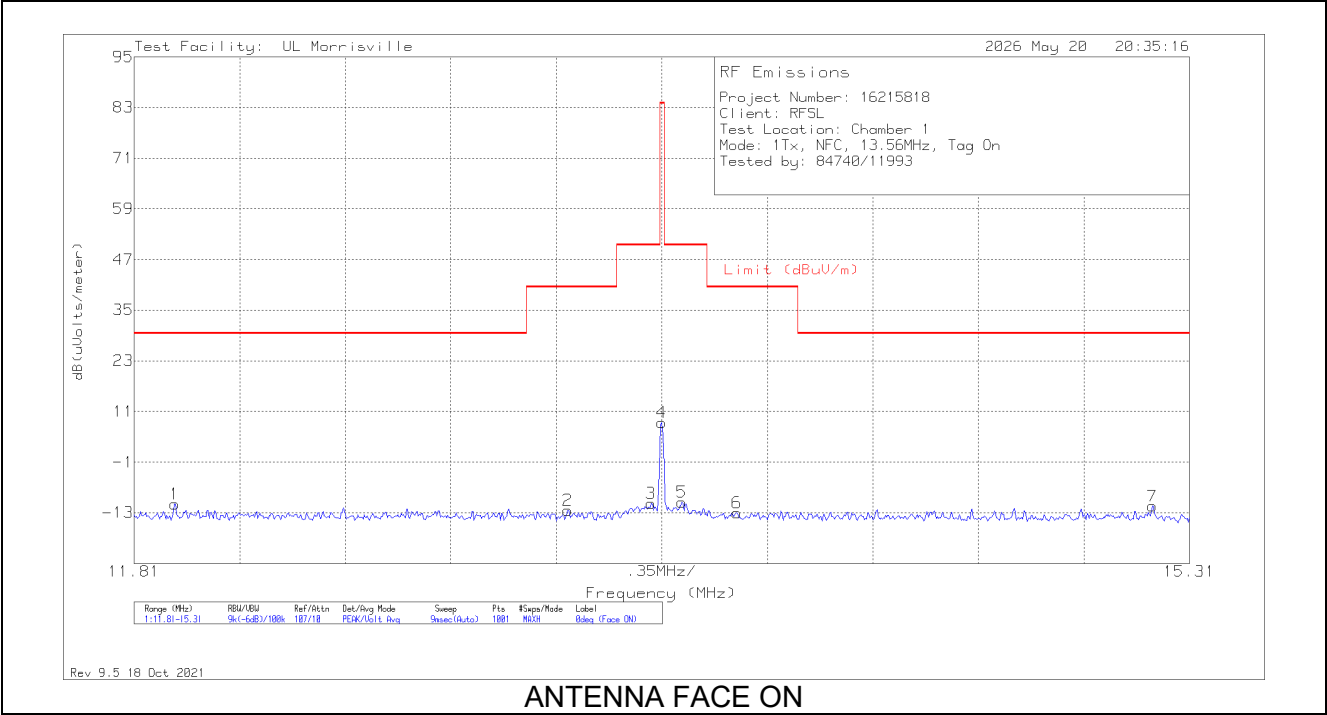
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field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

RESULTS

9.2. FUNDAMENTAL AND SPURIOUS EMISSIONS (<30MHz)

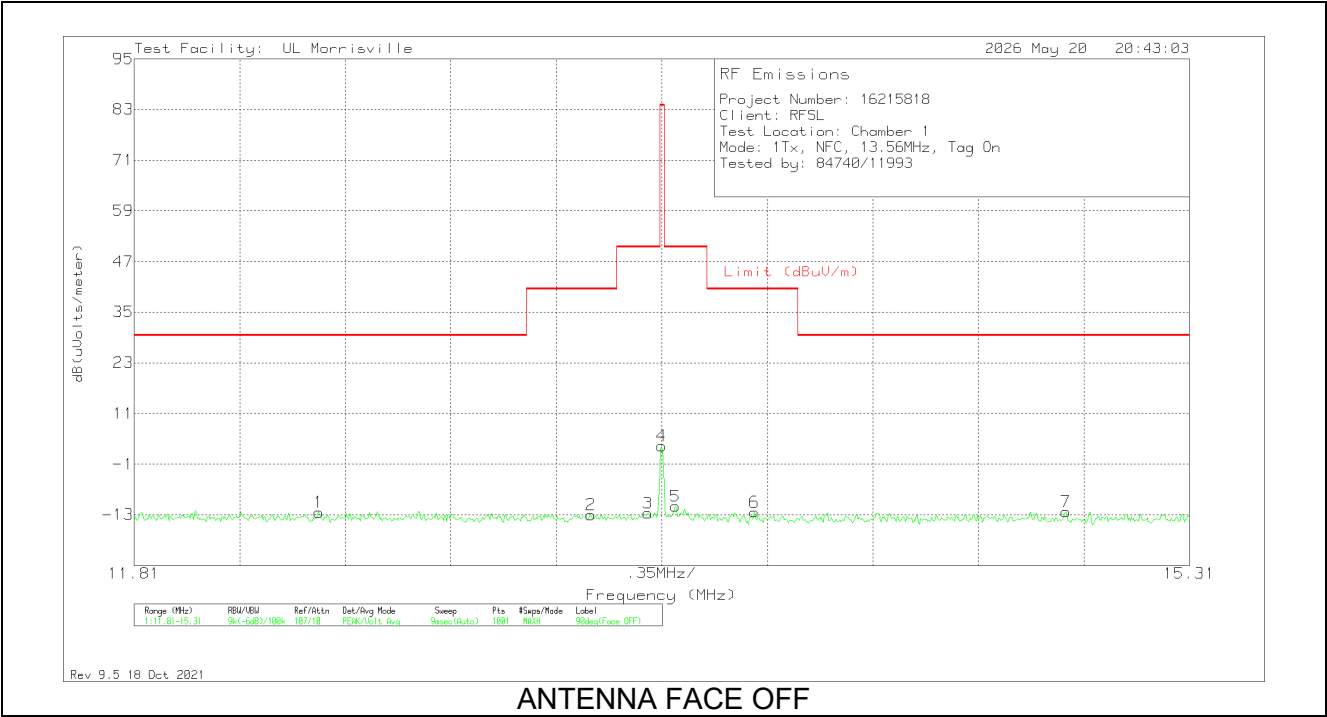
9.2.1. TYPE B

FUNDAMENTAL



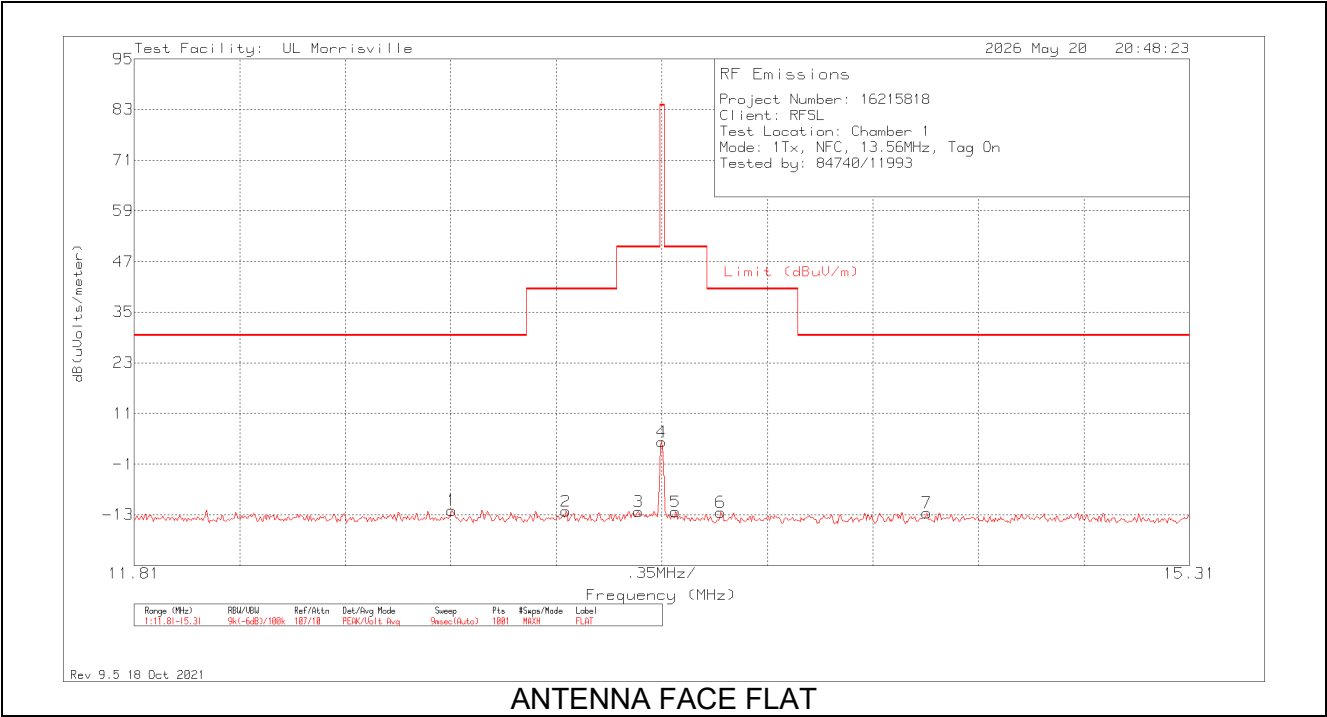
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
1	11.94475	17.98	Pk	10.6	.5	-40	-10.92	29.5	-40.42	93	100	0 degs
2	13.2485	16.33	Pk	10.6	.6	-40	-12.47	40.5	-52.97	93	100	0 degs
3	13.525	18.03	Pk	10.6	.6	-40	-10.77	50.5	-61.27	93	100	0 degs
4	13.56	37.16	Pk	10.6	.6	-40	8.36	84	-75.64	93	100	0 degs
5	13.6265	18.35	Pk	10.6	.6	-40	-10.45	50.5	-60.95	93	100	0 degs
6	13.8085	15.85	Pk	10.6	.6	-40	-12.95	40.5	-53.45	93	100	0 degs
7	15.1875	17.45	Pk	10.5	.6	-40	-11.45	29.5	-40.95	93	100	0 degs

Pk - Peak detector



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
1	12.4225	16.39	Pk	10.6	.6	-40	-12.41	29.5	-41.91	3	100	90 degs
2	13.3255	15.78	Pk	10.6	.6	-40	-13.02	40.5	-53.52	3	100	90 degs
3	13.5145	16.17	Pk	10.6	.6	-40	-12.63	50.5	-63.13	3	100	90 degs
4	13.56	32.13	Pk	10.6	.6	-40	3.33	84	-80.67	3	100	90 degs
5	13.6055	17.8	Pk	10.6	.6	-40	-11	50.5	-61.5	3	100	90 degs
6	13.868	16.45	Pk	10.6	.6	-40	-12.35	40.5	-52.85	3	100	90 degs
7	14.9005	16.57	Pk	10.6	.6	-40	-12.23	29.5	-41.73	3	100	90 degs

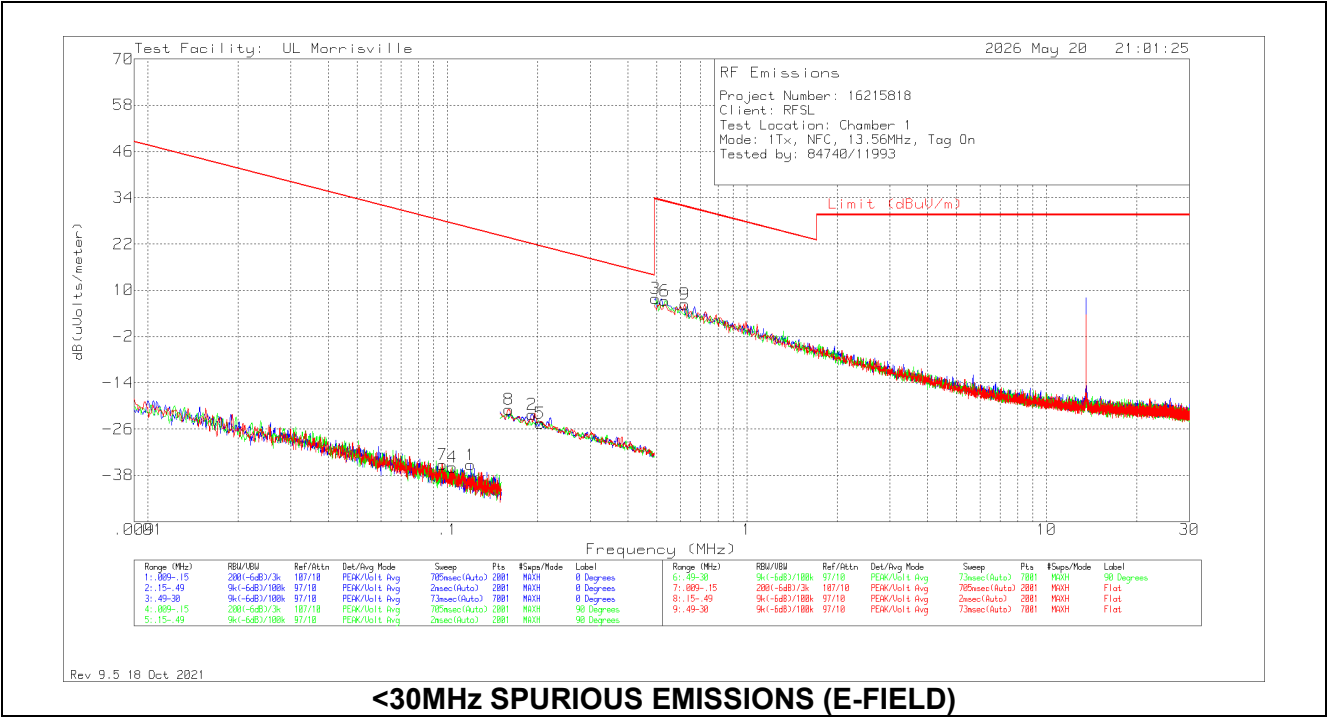
Pk - Peak detector



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
1	12.8635	16.87	Pk	10.6	.6	-40	-11.93	29.5	-41.43	160	100	Flat
2	13.2415	16.61	Pk	10.6	.6	-40	-12.19	40.5	-52.69	160	100	Flat
3	13.483	16.57	Pk	10.6	.6	-40	-12.23	50.5	-62.73	160	100	Flat
4	13.56	33.09	Pk	10.6	.6	-40	4.29	84	-79.71	160	100	Flat
5	13.6055	16.47	Pk	10.6	.6	-40	-12.33	50.5	-62.83	160	100	Flat
6	13.756	16.37	Pk	10.6	.6	-40	-12.43	40.5	-52.93	160	100	Flat
7	14.4385	16.27	Pk	10.6	.6	-40	-12.53	29.5	-42.03	160	100	Flat

Pk - Peak detector

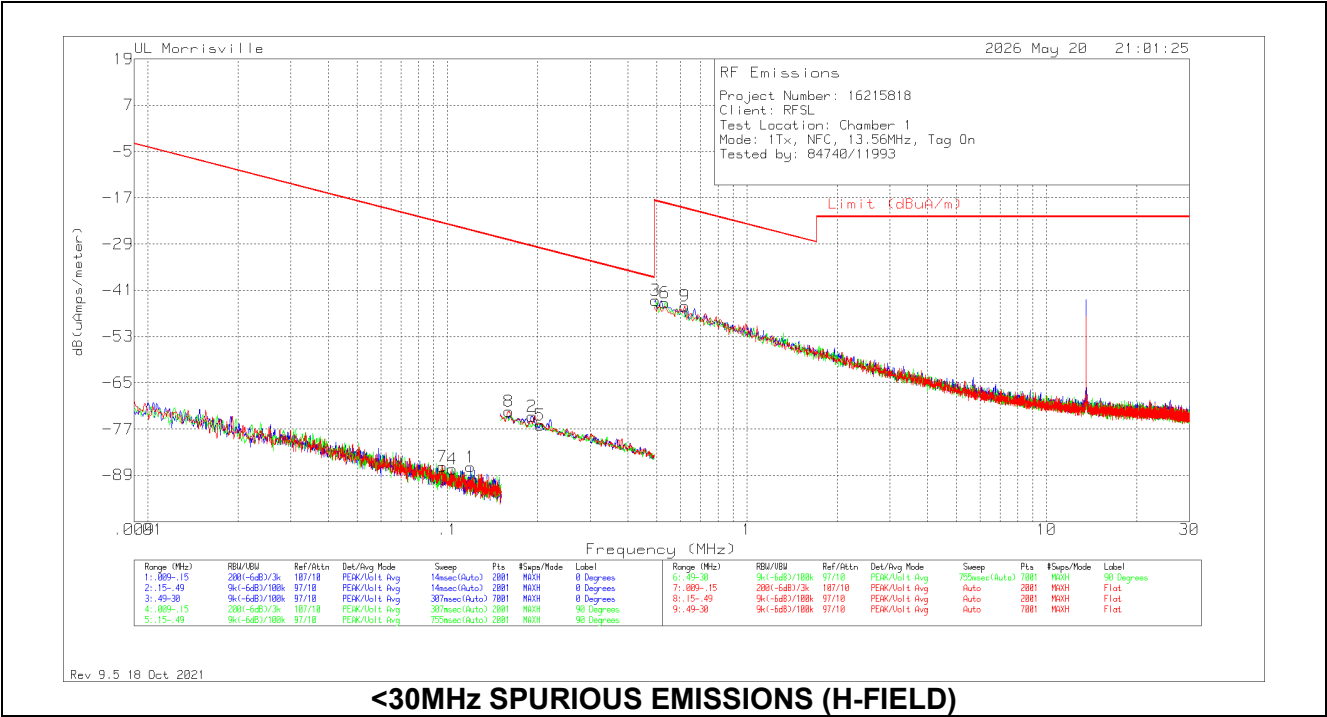
SPURIOUS EMISSION – E FIELD



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
7	.0964	33.57	Pk	11.1	.1	-80	-35.23	27.92	47.92	-63.15	0-360	Flat
4	.10393	32.97	Pk	11.1	.1	-80	-35.83	27.27	-	-63.1	0-360	90 degs
1	.11962	33.48	Pk	11.1	.1	-80	-35.32	26.05	46.05	-61.37	0-360	0 degs
8	.16029	48.01	Pk	11	.1	-80	-20.89	23.51	43.51	-44.4	0-360	Flat
2	.19157	46.73	Pk	11	.1	-80	-22.17	21.96	41.96	-44.13	0-360	0 degs
5	.20372	44.5	Pk	10.9	.1	-80	-24.5	21.42	41.42	-45.92	0-360	90 degs
3	.49422	36.81	Pk	11	.1	-40	7.91	33.73	-	-25.82	0-360	0 degs
6	.53216	36.19	Pk	11	.1	-40	7.29	33.08	-	-25.79	0-360	90 degs
9	.6207	35.33	Pk	11	.1	-40	6.43	31.75	-	-25.32	0-360	Flat

Pk - Peak detector

SPURIOUS EMISSION – H FIELD



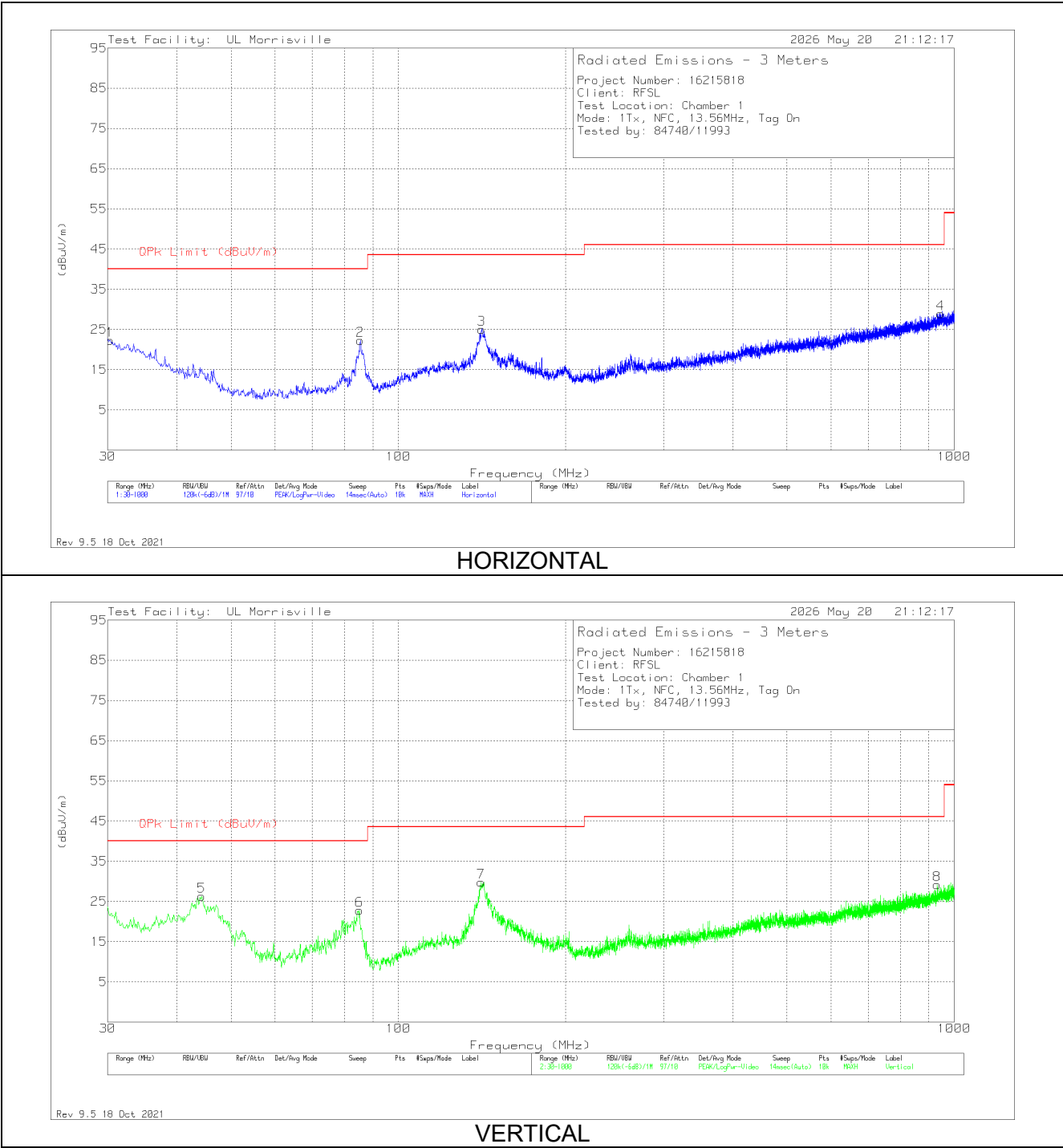
<30MHz SPURIOUS EMISSIONS (H-FIELD)

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uAmps/meter)	QP/AV Limit (dBuA/m)	PK Limit (dBuA/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
7	.0964	33.57	Pk	-40.4	.1	-80	-86.73	-23.58	-3.58	-63.15	0-360	Flat
4	.10393	32.97	Pk	-40.4	.1	-80	-87.33	-24.23	-	-63.1	0-360	90 degs
1	.11962	33.48	Pk	-40.4	.1	-80	-86.82	-25.45	-5.45	-61.37	0-360	0 degs
8	.16029	48.01	Pk	-40.5	.1	-80	-72.39	-27.99	-7.99	-44.4	0-360	Flat
2	.19157	46.73	Pk	-40.5	.1	-80	-73.67	-29.54	-9.54	-44.13	0-360	0 degs
5	.20372	44.5	Pk	-40.6	.1	-80	-76	-30.08	-10.08	-45.92	0-360	90 degs
3	.49422	36.81	Pk	-40.5	.1	-40	-43.59	-17.77	-	-25.82	0-360	0 degs
6	.53216	36.19	Pk	-40.5	.1	-40	-44.21	-18.42	-	-25.79	0-360	90 degs
9	.6207	35.33	Pk	-40.5	.1	-40	-45.07	-19.75	-	-25.32	0-360	Flat

Pk - Peak detector

9.3. TX SPURIOUS EMISSION 30 TO 1000 MHz

9.3.1. TYPE B



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90629 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.291	26.75	Pk	26.8	-31.3	22.25	40	-17.75	0-360	199	H
5	44.259	40.83	Pk	16.9	-31.4	26.33	40	-13.67	0-360	100	V
6	85.096	40.36	Pk	13.7	-31.3	22.76	40	-17.24	0-360	100	V
2	85.387	39.75	Pk	13.7	-31.2	22.25	40	-17.75	0-360	199	H
7	140.871	41.02	Pk	19.1	-30.3	29.82	43.52	-13.7	0-360	100	V
3	141.259	36.4	Pk	19.1	-30.5	25	43.52	-18.52	0-360	199	H
8	931.518	26.44	Pk	28.8	-26.1	29.14	46.02	-16.88	0-360	100	V
4	945.68	26.08	Pk	29	-26.2	28.88	46.02	-17.14	0-360	299	H

Pk - Peak detector

10. FREQUENCY STABILITY

LIMIT

§15.225 (e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ 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 $\pm 0.01\%$ (± 100 ppm).

TEST PROCEDURE

ANSI C63.10-2020 Clause 6.8

RESULTS

No non-compliance noted.

10.1. TYPE B

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
7.58	40	13.5601755	1.138	13.5601750	1.172	13.5601749	1.178	13.5601751	1.161	± 100
7.58	30	13.5601874	0.259	13.5601867	0.305	13.5601865	0.326	13.5601863	0.334	± 100
7.58	20	13.5601909	0.000	13.5601909	-0.002	13.5601910	-0.005	13.5601911	-0.015	± 100
7.58	10	13.5602271	-2.674	13.5602258	-2.574	13.5602252	-2.529	13.5602245	-2.482	± 100
7.58	0	13.5602338	-3.163	13.5602339	-3.171	13.5602338	-3.165	13.5602337	-3.156	± 100
7.58	-10	13.5602254	-2.548	13.5602266	-2.638	13.5602274	-2.691	13.5602277	-2.713	± 100
7.58	-20	13.5602054	-1.070	13.5602036	-0.938	13.5602024	-0.848	13.5602013	-0.770	± 100
8.80	20	13.5601911	-0.019	13.5601912	-0.023	13.5601913	-0.027	13.5601918	-0.067	± 100
6.00	20	13.5601919	-0.077	13.5601924	-0.112	13.5601928	-0.144	13.5601932	-0.172	± 100

Note: EUT would operate up to 40°C.

Tested by: 85502

Test date: 2026-06-11

11. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207
IC RSS-GEN, Section 8.8

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

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.

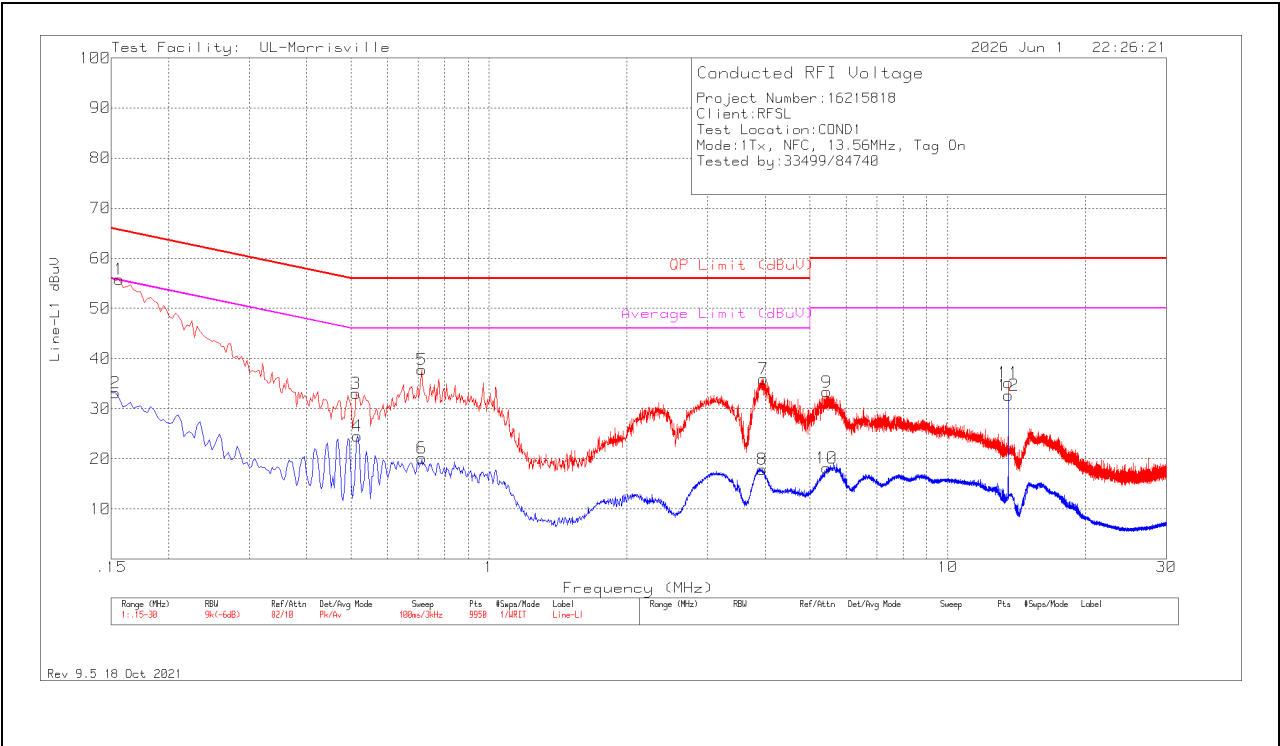
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

No non-compliance noted:

11.1. TYPE B

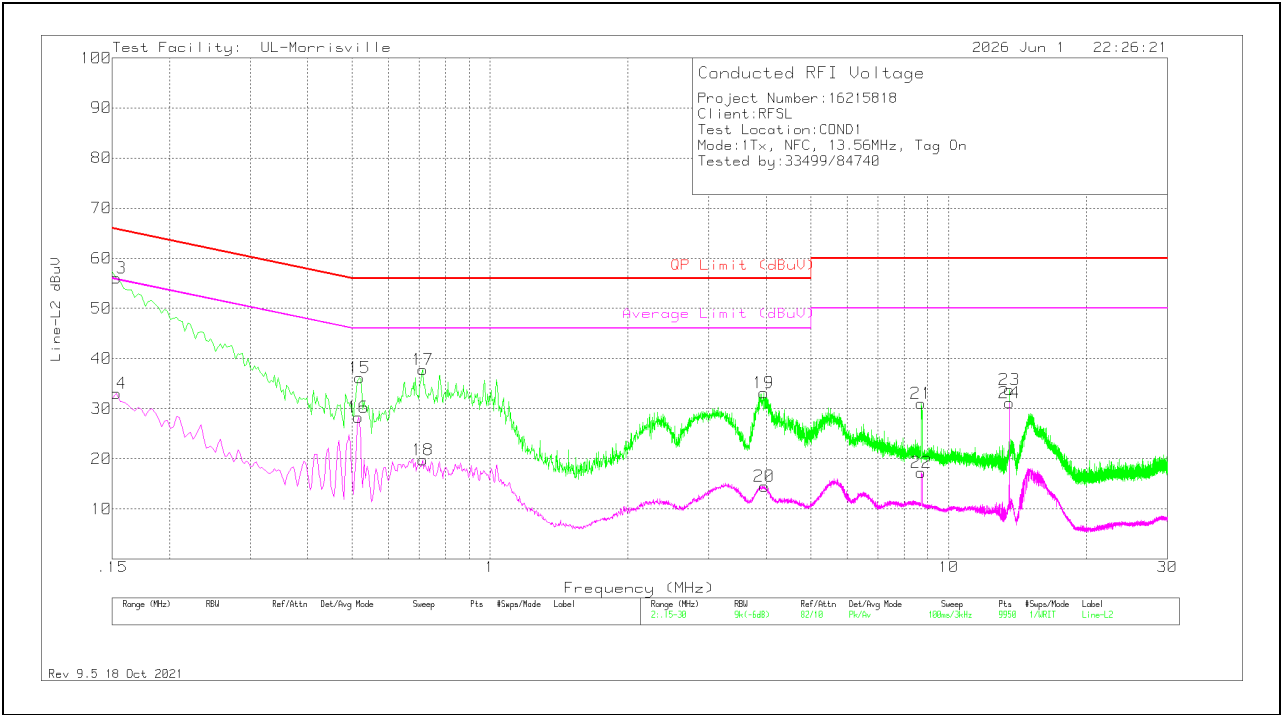
LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.156	45.78	Pk	.2	9.8	55.78	65.67	-9.89	-	-
2	.153	23.15	Av	.2	9.8	33.15	-	-	55.84	-22.69
3	.513	23.19	Pk	0	9.8	32.99	56	-23.01	-	-
4	.516	14.7	Av	0	9.8	24.5	-	-	46	-21.5
5	.714	27.99	Pk	0	9.8	37.79	56	-18.21	-	-
6	.714	10.32	Av	0	9.8	20.12	-	-	46	-25.88
7	3.96	25.98	Pk	0	9.9	35.88	56	-20.12	-	-
8	3.939	7.98	Av	0	9.9	17.88	-	-	46	-28.12
9	5.457	23.45	Pk	0	9.9	33.35	60	-26.65	-	-
10	5.457	8.24	Av	0	9.9	18.14	-	-	50	-31.86
11	13.56	24.95	Pk	.1	10.1	35.15	60	-24.85	-	-
12	13.56	22.43	Av	.1	10.1	32.63	-	-	50	-17.37

Pk - Peak detector
Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
13	.153	46.06	Pk	.2	9.8	56.06	65.84	-9.78	-	-
14	.153	23.03	Av	.2	9.8	33.03	-	-	55.84	-22.81
15	.519	26.4	Pk	0	9.8	36.2	56	-19.8	-	-
16	.516	18.48	Av	0	9.8	28.28	-	-	46	-17.72
17	.714	27.96	Pk	0	9.8	37.76	56	-18.24	-	-
18	.714	10	Av	0	9.8	19.8	-	-	46	-26.2
19	3.948	23.27	Pk	0	9.9	33.17	56	-22.83	-	-
20	3.96	4.65	Av	0	9.9	14.55	-	-	46	-31.45
21	8.712	20.97	Pk	.1	10	31.07	60	-28.93	-	-
22	8.721	7.19	Av	.1	10	17.29	-	-	50	-32.71
23	13.56	23.63	Pk	.1	10.1	33.83	60	-26.17	-	-
24	13.56	20.95	Av	.1	10.1	31.15	-	-	50	-18.85

Pk - Peak detector
Av - Average detection

12. SETUP PHOTOS

Please refer to R16215818-EP1 for setup photos

END OF TEST REPORT