

TEST REPORT

Report Number: R14956064-E3

Applicant : WHOOP, Inc.
1 Kenmore Square Ste 601
Boston, Massachusetts 02215, United States

Model : WB50

FCC ID : 2AJ2X-WB50

IC : 22056-WB50

EUT Description : Charger

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C: 2024
ISED RSS-216 ISSUE 3: 2024
ISED RSS-GEN ISSUE 5 + A1 + A2: 2021

Date Of Issue:

2025-03-11

Prepared by:

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REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2024-07-17	Initial Issue	Charles Moody
V2	2024-08-02	Editorial – corrected model number, FCC ID, and IC	Chandler Stanley
V3	2024-12-05	Updated Section 6.2	Charles Moody
V4	2024-12-16	Updated to latest version of RSS-216	Charles Moody
V5	2025-03-11	Included additional RSS-216 and RSS-GEN test methods and standards	Charles Moody

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME:

WHOOP, Inc.
1 Kenmore Square St 601
Boston, Massachusetts 02215, United States

EUT DESCRIPTION:

Charger

MODEL:

WB50

SERIAL NUMBER:

Strap: 5AMD002525
Battery: B5APD002344, B5APD002872, B5AP001494

SAMPLE RECEIVE DATE:

2024-06-17

DATE TESTED:

2024-06-17 TO 2024-06-25

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart C: 2024	Refer to Section 2
ISED RSS-216 Issue 3: 2024	Refer to Section 2
ISED RSS-GEN Issue 5 + A1 + A2	Refer to Section 2

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.

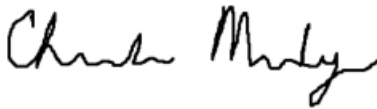
This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document.

Approved & Released For
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2. SUMMARY OF TEST RESULTS

FCC Clause	ISED Clause	Requirement	Result	Comment
15.209, 15.205, 15.225	RSS-216 (5.3.3.1, 5.3.3.2) RSS-GEN (8.9, 8.10)	Radiated Emissions	Compliant	None
15.215	RSS-GEN 6.7	Emissions Bandwidth	For Reporting Purposes only.	None.
15.207 (a)	RSS-216 5.3.2	AC Mains Conducted Emissions	Compliant	Note 1.
15.225(e)	RSS-216 (5.5)	Frequency Stability	Compliant.	None

Note 1: AC Mains scans were performed while the EUT was charging via WPT, as well as operating as intended while terminated into a dummy load.

3. TEST METHODOLOGY

- The tests documented in this report were performed in accordance with ANSI C63.10-2020, ANSI C63.30-2021, FCC CFR 47 Part 2, and FCC CFR 47 Part 15, FCC KDB 174176 D01 v01r01, KDB 414788 D01 Radiated Test Site, RSS-GEN Issue 5 + A1 and RSS-216 Issue 3: 2024.

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 RTP, NC 27709, 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%
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.
 $\text{dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a charger that is used to charge the battery of a wearable strap and contains both a BLE and WPT radio. This report covers the full emissions testing of the WPT radio.

6.2. MAXIMUM OUTPUT POWER

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

Fundamental Frequency (MHz)	Mode	E field (30m distance) FCC (dBuV/m)	H field (3m distance) IC (dBuA/m)
13.56	Config 1 – Charge Mode	11.98	-0.66

6.3. SOFTWARE AND FIRMWARE

The firmware version installed in the EUT during testing was 3.13.1.0.

6.4. WORST-CASE CONFIGURATION AND MODE

For the entire radiated emissions test, the EUT was examined on the following configuration. AC power line conducted emissions were also investigated on the following configurations:

Config	Mode	Descriptions
1	Charging Mode	Low Battery Level (<10%). Performed with battery only, and with battery plugged into AC adapter. AC adapter was found to be worst-case for radiated emissions.
2	Dummy Load	AC Lines Only – WPT radio was terminated into a dummy load antenna.

For all radiated emissions tests, the EUT was discharged to <10%, 40-60%, and 90% battery level prior to testing, and set to continuously charge during the entirety of the test. Pretesting determined <10% battery was worst-case and this was used for all final testing. The intended included USB cable and a representative AC Adaptor were connected to the strap used for all testing to represent worst case. The AC Adaptor will not be included with the end product.

The fundamental of the EUT was investigated in three orthogonal orientations, X, Y and Z to determine the worst case orientation. It was found that Y orientation was worst case. Therefore, all testing was performed in this orientation.

6.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Dell	Latitude 7320	FPC60F3	-
AC Adapter	DeWalt	DXMA1310851	C42107	NA
Laptop	Dell	P112F	N/A	N/A
Wearable Strap	Whoop	WS50	5AMD002525	2AJ2X-WS50

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB C	1	USB C	Shielded	<3m	Connects the battery to the AC Adapter

SETUP DIAGRAM

Please refer to R14956064-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 - 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	2024-04-04	2025-04-04
179892	Environmental Meter	Fisher Scientific	15-077-963	2023-07-26	2024-07-31
72095	LISN, 50-ohm/50-uH, 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50-25-2-01-550V	2023-08-01	2024-08-01
80391	LISN, 50-ohm/50-uH, 250uH 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50/250-25-2-01	2023-07-31	2024-07-31
75141	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2023-08-01	2024-08-01
52859	Transient Limiter, 0.009-100MHz	Electro-Metrics	EM-7600	2024-04-04	2025-04-04
PS216	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	2024-04-04	2025-04-04

Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	Common Equipment				
	Conducted Room 2				
90416	Spectrum Analyzer	Keysight Technologies	N9030A	2023-06-09	2024-06-30
76023	Temp/Humid Chamber	Cincinnati Sub-Zero	ZPH-8-3.5-SCT/AC	2024-01-12	2025-01-12
238710	Environmental Meter	Fisher Scientific	15-077-963	2023-06-27	2024-06-27
76021	DC Regulated Power Supply	CircuitSpecialists.Com	CSI3005X5	NA	NA
SOFTEMI	Antenna Port Software	UL	Version 2022.8.16	NA	NA
	Additional Equipment used				
-	Near Field Probe Kit	EMC Test Systems	7405	-	-

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	0.009-30MHz				
135144	Active Loop Antenna	ETS-Lindgren	6502	2024-01-24	2025-01-24
	30-1000 MHz				
90628	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2024-01-02	2026-01-02
	Gain-Loss Chains				
207638	Gain-loss string: 0.009-30MHz	Various	Various	2024-05-22	2025-05-22
207639	Gain-loss string: 25-1000MHz	Various	Various	2024-05-22	2025-05-22
	Receiver & Software				
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2024-04-16	2025-04-16
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
241204	Environmental Meter	Fisher Scientific	15-077-963	2023-09-05	2025-09-05

8. ANTENNA PORT TEST RESULTS

8.1. OCCUPIED BANDWIDTH

TEST PROCEDURE

The transmitter output is measured via a near field probe connected to the spectrum analyzer. The RBW is set to 1-5% of the OBW. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

EUT SETUP

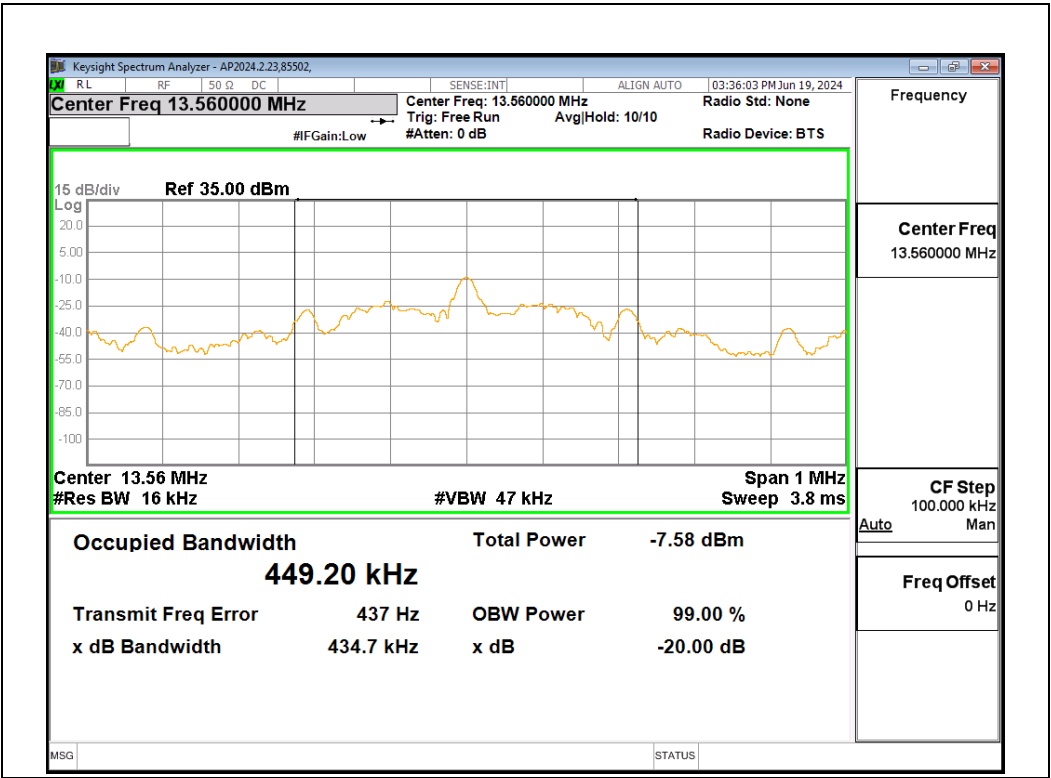
Configuration 1: Charger in charging mode with CW signal and duty cycle varied to control charge level via load modulation from watch.

Results for when the EUT was in standable battery mode, and while connected to AC Mains was investigated.

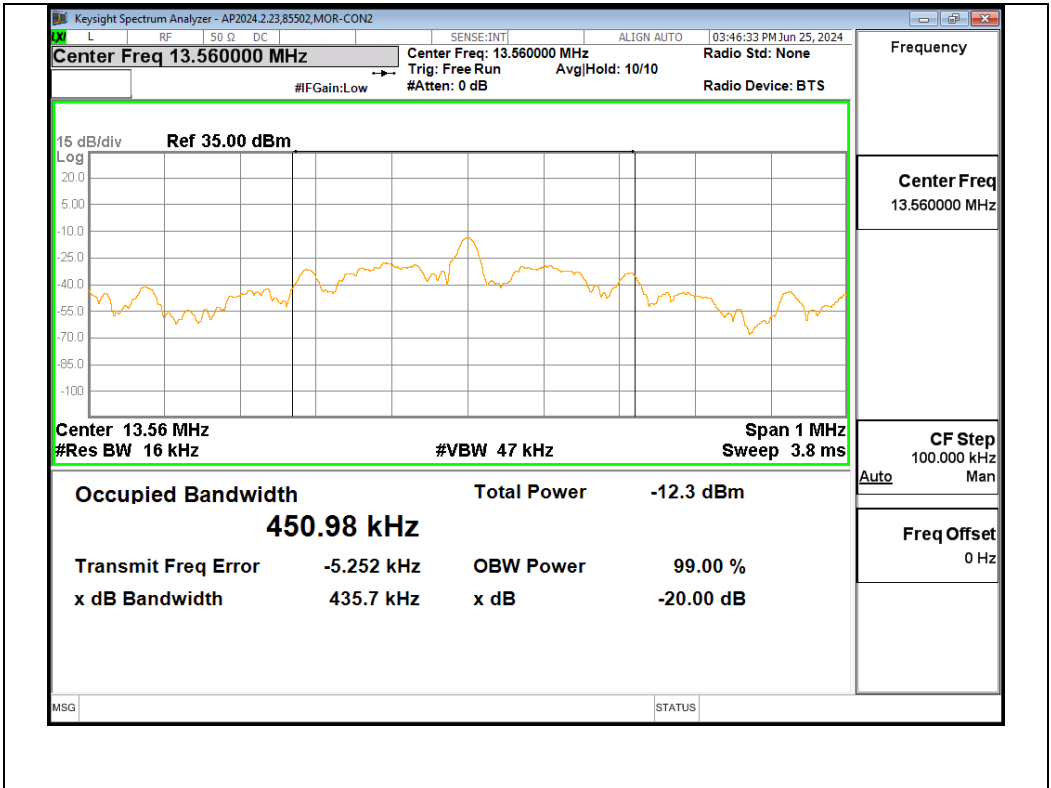
RESULTS

Configuration	Frequency measured	99% OBW Result	20dB BW Result
Battery	13.56 MHz	0.4492 MHz	0.4347 MHz
USB		0.4598 MHz	0.4357 MHz

8.1.1. CHARGING ON BATTERY MODE



8.1.2. CHARGING WHILE BATTERY IS CONNECTED TO AC MAINS



8.2. 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 the minimum to the maximum 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.

TEST PROCEDURE

ANSI C63.10-2020 Clause 6.8

RESULTS

No non-compliance noted.

8.2.1. USB

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)
5.00	50	13.5597741	0.777	13.5597670	1.300	13.5597700	1.082	13.5597695	1.119	± 100
5.00	40	13.5597854	-0.052	13.5597785	0.456	13.5597737	0.809	13.5597785	0.455	± 100
5.00	30	13.5598106	-1.911	13.5597961	-0.844	13.5597878	-0.232	13.5597838	0.063	± 100
5.00	20	13.5597847	0.000	13.5597808	0.289	13.5597761	0.631	13.5597741	0.779	± 100
5.00	10	13.5598552	-5.201	13.5598492	-4.762	13.5598476	-4.640	13.5598465	-4.563	± 100
5.00	0	13.5598827	-7.229	13.5598816	-7.147	13.5598804	-7.063	13.5598807	-7.081	± 100
5.00	-10	13.5598951	-8.143	13.5598907	-7.822	13.5598850	-7.397	13.5598829	-7.243	± 100
5.00	-20	13.5598935	-8.026	13.5598880	-7.620	13.5598946	-8.105	13.5598921	-7.920	± 100
4.25	20	13.5597777	0.516	13.5597774	0.540	13.5597780	0.492	13.5597775	0.532	± 100
5.75	20	13.5598032	-1.367	13.5597926	-0.585	13.5597846	0.005	13.5597778	0.507	± 100

Tested by: 85502

Test date: 2024-06-24

8.2.2. Battery

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)
4.50	50	13.5597846	3.743	13.5597763	4.355	13.5597724	4.646	13.5597735	4.563	± 100
4.50	40	13.5597689	4.904	13.5597564	5.826	13.5597491	6.361	13.5597495	6.331	± 100
4.50	30	13.5598022	2.448	13.5597850	3.717	13.5597735	4.561	13.5597668	5.059	± 100
4.50	20	13.5598354	0.000	13.5598255	0.730	13.5598180	1.283	13.5598128	1.667	± 100
4.50	10	13.5598672	-2.349	13.5598533	-1.320	13.5598533	-1.320	13.5598470	-0.855	± 100
4.50	0	13.5598846	-3.628	13.5598831	-3.521	13.5598816	-3.407	13.5598816	-3.411	± 100
4.50	-10	13.5598776	-3.116	13.5598817	-3.418	13.5598820	-3.440	13.5598826	-3.481	± 100
4.50	-20	13.5598780	-3.145	13.5598652	-2.201	13.5598601	-1.822	13.5598541	-1.379	± 100
3.00	20	13.5598250	0.765	13.5598159	1.439	13.5598066	2.120	13.5597970	2.832	± 100

Tested by: 85502

Test date: 2024-06-21

9. RADIATED EMISSION TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMIT

FCC §15.209 (a), 15.225(a)-(d)

Frequency (MHz)	FCC 15.209 Field Strength (microvolts/meter)	FCC 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 to 216	150	3
216 to 960	200	3
Above 960 MHz	500	3
Frequency (MHz)	FCC 15.225 Field Strength (microvolts/meter)	FCC Measurement Distance (m)
13.110-13.410	106	30
13.410-13.553	334	30
13.553-13.567	15848	30
13.567-13.710	334	30
13.710-14.010	106	30
Note:15.225 Limits outside of the 13.110 to 14.010 are shared with 15.209		

ICES-001 Section 6.2, IC RSS-216 6.2.2, and IC RSS-GEN Sections 8.9 and 8.10.

Table 2: Magnetic field strength radiated emission limits for induction cooking appliances

Frequency range (MHz)	Quasi-peak, at 3 m distance (dBμA/m)
0.009 – 0.07	69
0.07 – 0.15	69 to 39 *
0.15 – 30	39 to 7 *
* The limit level in dBμA/m decreases linearly with the logarithm of frequency.	

Table 4: Electric field strength radiated emission limits for induction cooking appliances

Frequency range (MHz)	OATS or SAC * 10 m measurement distance Quasi-peak (dBμV/m)	OATS or SAC * 3 m measurement distance Quasi-peak (dBμV/m)	FAR * 3 m measurement distance Quasi-peak (dBμV/m)
30 – 230	30	40	42 to 35**
230 – 1000	37	47	42
Note: The more stringent limit applies at the transition frequency. * OATS = open-area test site, SAC = semi-anechoic chamber, FAR = fully-anechoic room (see CSA CISPR 11:19). ** The limit level in dBμV/m decreases linearly with the logarithm of frequency.			

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

Resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9-150kHz range. Peak detection is used unless otherwise noted as quasi-peak.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

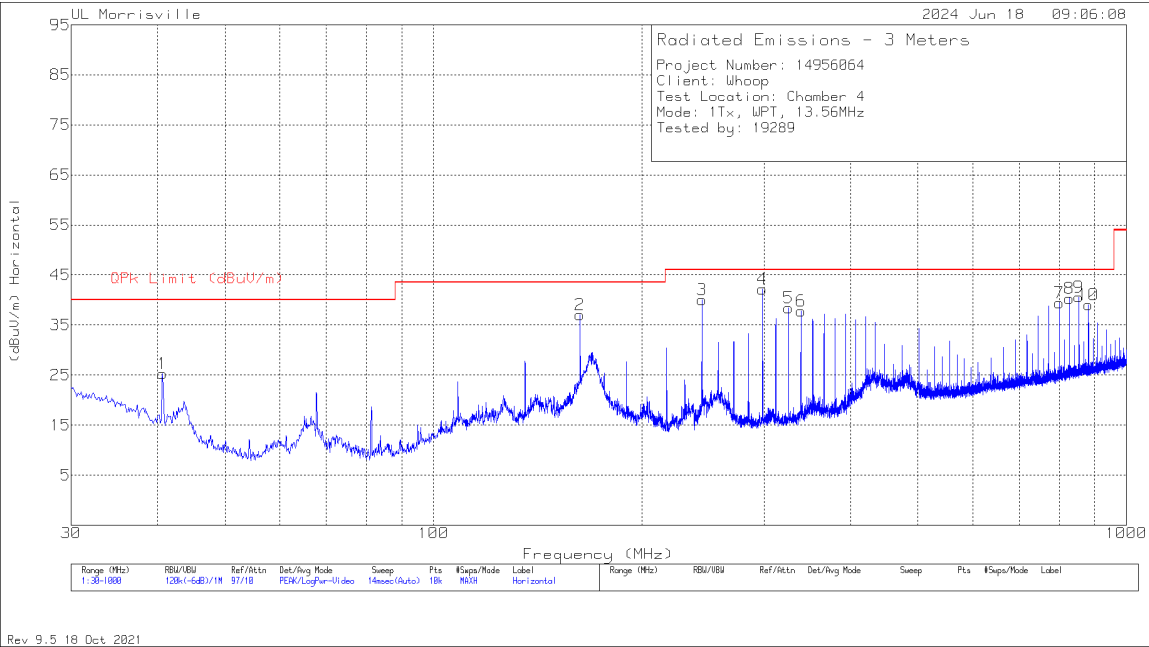
KDB 414788 Open Field Site (OFS) and Chamber Correlation Justification

OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

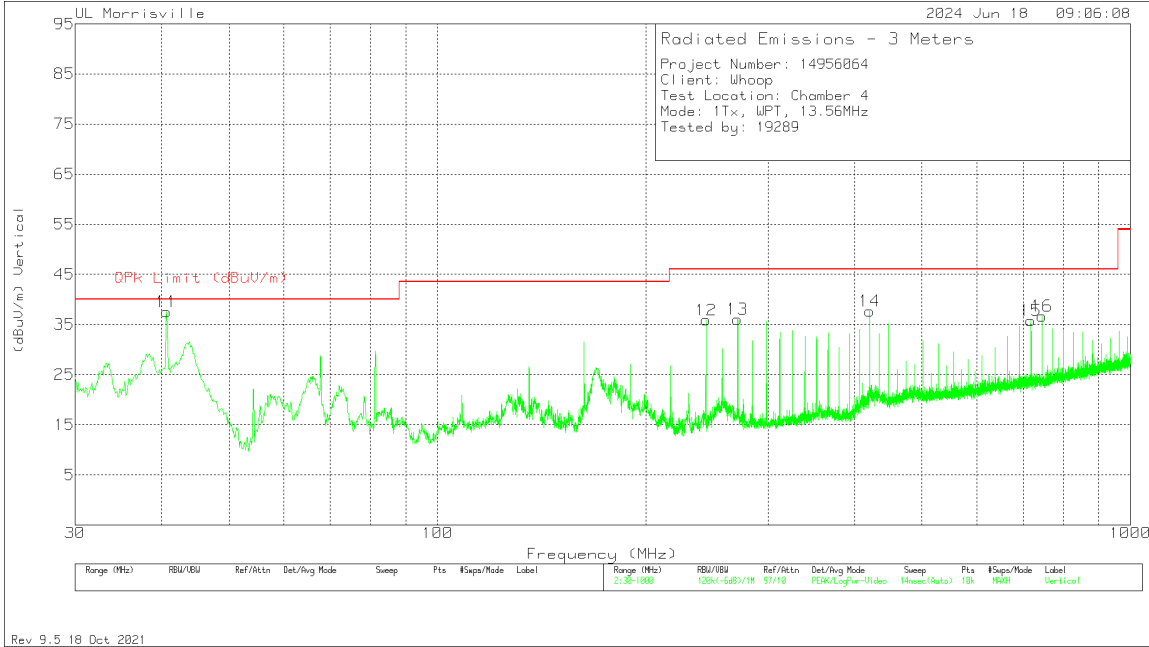
RESULTS

9.2. FCC TX SPURIOUS EMISSION 30 TO 1000 MHz

9.2.1. CONFIG 1



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

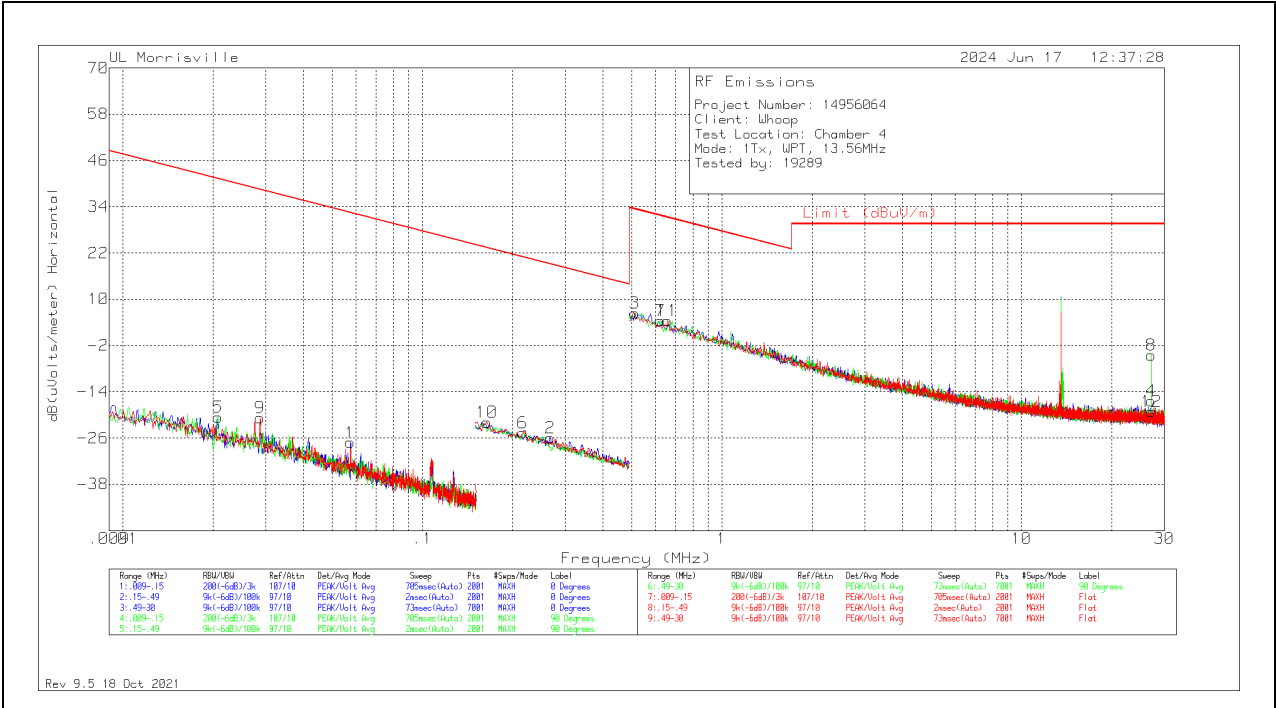
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	40.67	37.74	Pk	19.5	-32	25.24	40	-14.76	0-360	300	H
11	40.67863	48.56	Qp	19.5	-32	36.06	40	-3.94	56	103	V
2	162.696	49.77	Pk	18.4	-31.1	37.07	43.52	-6.45	0-360	100	H
3	244.07229	52.67	Qp	17.6	-30.6	39.67	46.02	-6.35	146	124	H
12	244.079	48.87	Pk	17.6	-30.6	35.87	46.02	-10.15	0-360	100	V
13	271.142	47.06	Pk	19.4	-30.4	36.06	46.02	-9.96	0-360	100	V
4	298.32694	48.01	Qp	19.5	-30.3	37.21	46.02	-8.81	139	102	H
5	325.462	48.54	Pk	20.1	-30.2	38.44	46.02	-7.58	0-360	100	H
6	339.042	47.83	Pk	20.1	-30.1	37.83	46.02	-8.19	0-360	100	H
14	420.328	45.07	Pk	22.4	-29.8	37.67	46.02	-8.35	0-360	200	V
15	718.7	38.24	Pk	26.5	-28.9	35.84	46.02	-10.18	0-360	100	V
16	745.86	38.91	Pk	26.5	-28.7	36.71	46.02	-9.31	0-360	100	V
7	800.083	40.58	Pk	27.2	-28.3	39.48	46.02	-6.54	0-360	100	H
8	827.14408	39.13	Qp	27.7	-28	38.83	46.02	-7.19	98	103	H
9	854.26572	37.77	Qp	27.8	-27.8	37.77	46.02	-8.25	100	107	H
10	881.466	38.68	Pk	28	-27.6	39.08	46.02	-6.94	0-360	100	H

Pk - Peak detector

Qp - Quasi-Peak detector

9.3. FCC TX FUNDAMENTAL & SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz

9.3.1. CONFIG 1 – E FIELD

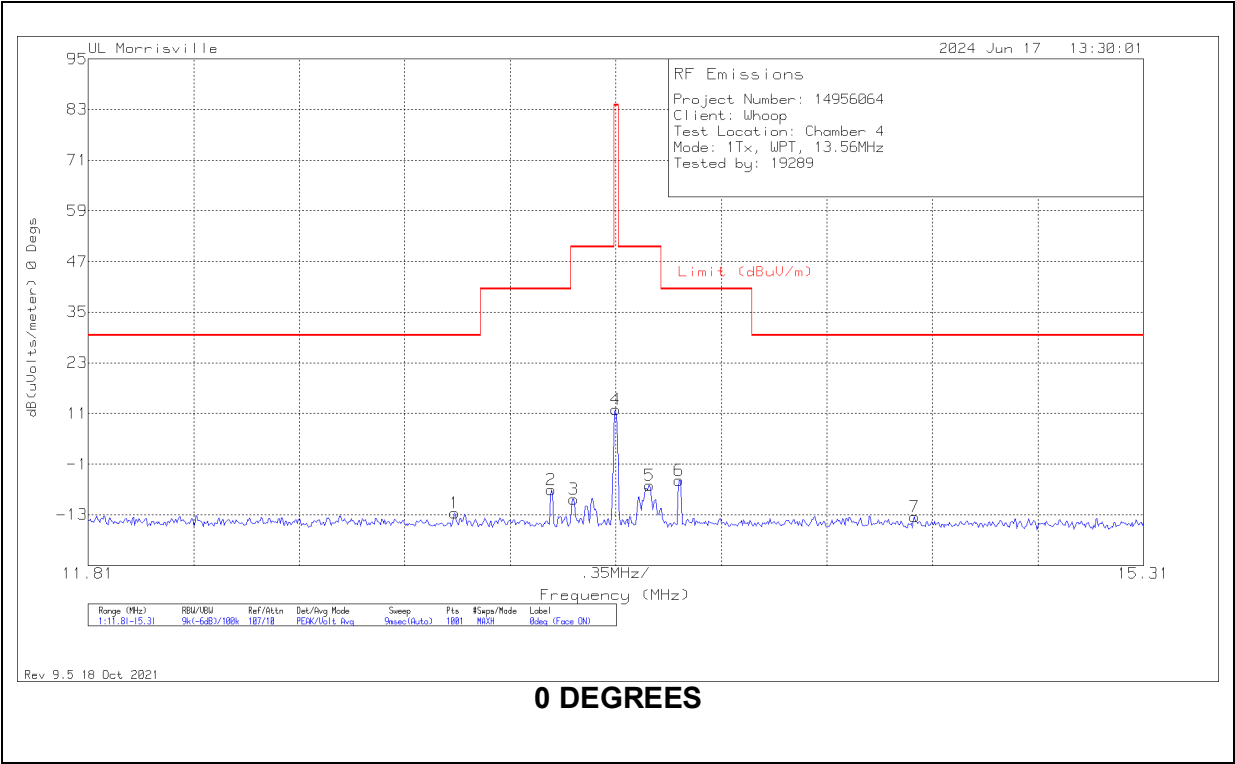


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dBuV/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
5	.02079	45.36	Pk	13.9	.1	-80	-20.64	41.25	61.25	-61.89	0-360	90 degs
9	.02874	45.51	Pk	13.6	.1	-80	-20.79	38.44	58.44	-59.23	0-360	Flat
1	.05756	41.02	Pk	11.7	.1	-80	-27.18	32.4	52.4	-59.58	0-360	0 degs
10	.16403	46.95	Pk	11.1	.1	-80	-21.85	23.31	43.31	-45.16	0-360	Flat
6	.21647	44.18	Pk	11.1	.1	-80	-24.62	20.9	40.9	-45.52	0-360	90 degs
2	.26662	42.84	Pk	11.1	.1	-80	-25.96	19.09	39.09	-45.05	0-360	0 degs
3	.51108	35.2	Pk	11.1	.1	-40	6.4	33.43	-	-27.03	0-360	0 degs
7	.62491	33.21	Pk	11.2	.1	-40	4.51	31.69	-	-27.18	0-360	90 degs
11	.65864	33	Pk	11.2	.2	-40	4.4	31.23	-	-26.83	0-360	Flat
4	27.12247	13.94	Pk	9	.7	-40	-16.36	29.54	-	-45.9	0-360	0 degs
8	27.12247	25.75	Pk	9	.7	-40	-4.55	29.54	-	-34.09	0-360	90 degs
12	27.16463	11.11	Pk	9	.7	-40	-19.19	29.54	-	-48.73	0-360	Flat

Pk - Peak detector

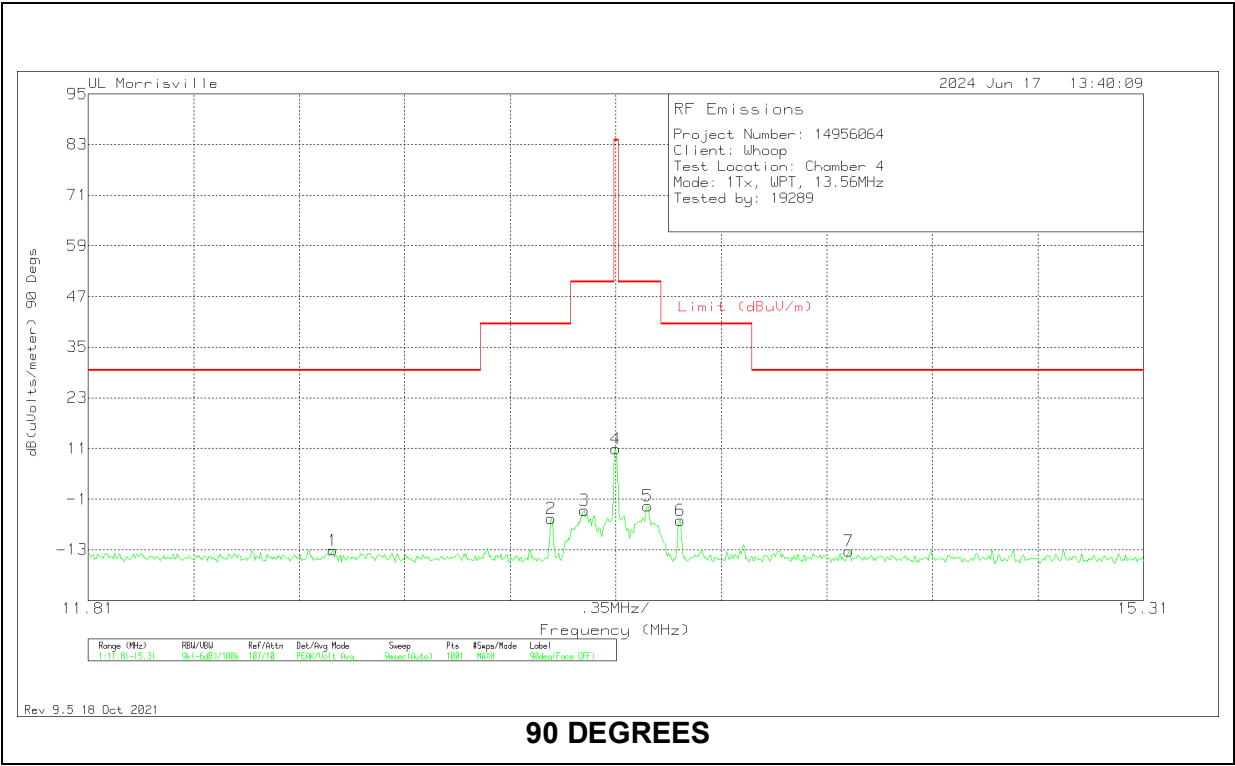
9.3.2. CONFIG 1 – Tx Mask



DATA – 0 Degrees

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dBuV/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	13.0245	16.21	Pk	10.7	.5	-40	-12.59	29.5	-42.09	162	100	0 degs
2	13.3465	21.7	Pk	10.7	.5	-40	-7.1	40.5	-47.6	162	100	0 degs
3	13.42	19.53	Pk	10.7	.5	-40	-9.27	50.5	-59.77	162	100	0 degs
4	13.56	40.78	Pk	10.7	.5	-40	11.98	84	-72.02	162	100	0 degs
5	13.672	22.76	Pk	10.7	.5	-40	-6.04	50.5	-56.54	162	100	0 degs
6	13.77	24	Pk	10.7	.5	-40	-4.8	40.5	-45.3	162	100	0 degs
7	14.5505	15.35	Pk	10.7	.5	-40	-13.45	29.5	-42.95	162	100	0 degs

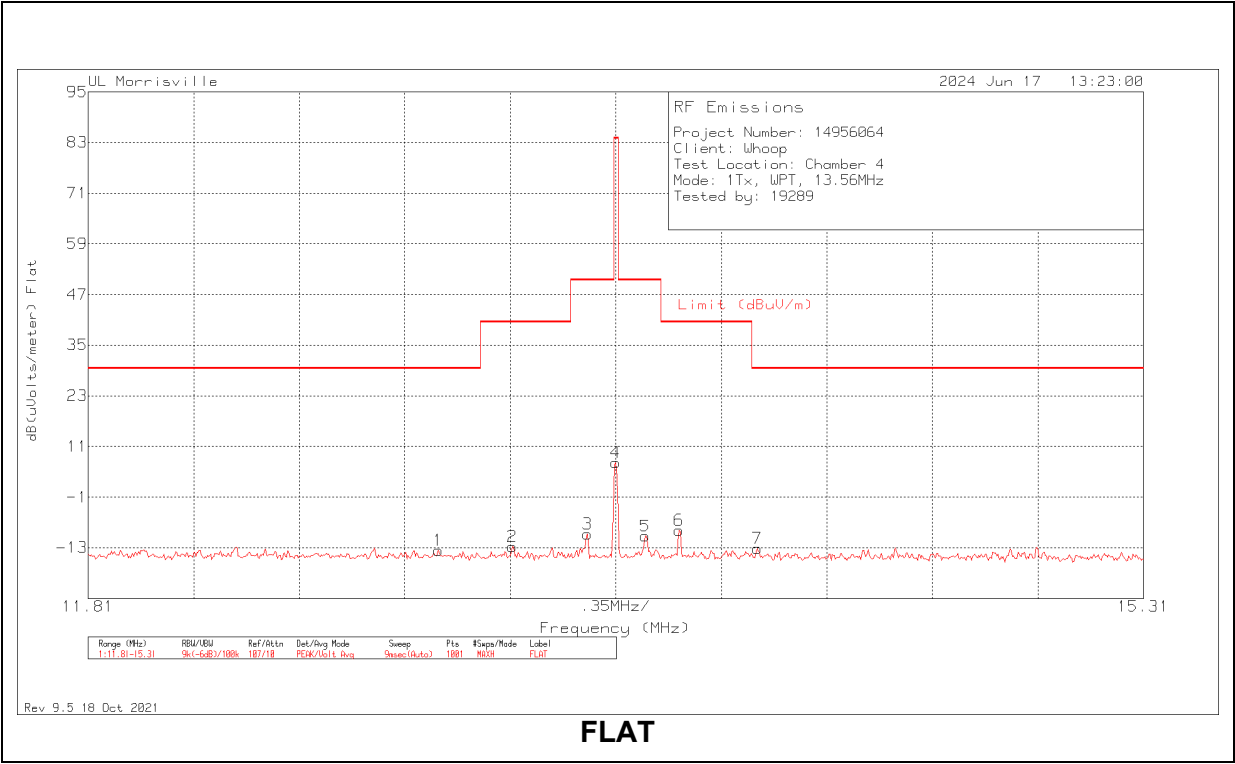
Pk - Peak detector



DATA – 90 Degrees

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dBuV/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degr)	Height (cm)	Loop Angle
1	12.622	15.61	Pk	10.8	.5	-40	-13.09	29.5	-42.59	252	100	90 degs
2	13.3465	23.26	Pk	10.7	.5	-40	-5.54	40.5	-46.04	252	100	90 degs
3	13.455	25.19	Pk	10.7	.5	-40	-3.61	50.5	-54.11	252	100	90 degs
4	13.56	39.69	Pk	10.7	.5	-40	10.89	84	-73.11	252	100	90 degs
5	13.665	26.25	Pk	10.7	.5	-40	-2.55	50.5	-53.05	252	100	90 degs
6	13.7735	22.72	Pk	10.7	.5	-40	-6.08	40.5	-46.58	252	100	90 degs
7	14.3335	15.5	Pk	10.7	.5	-40	-13.3	29.5	-42.8	252	100	90 degs

Pk - Peak detector



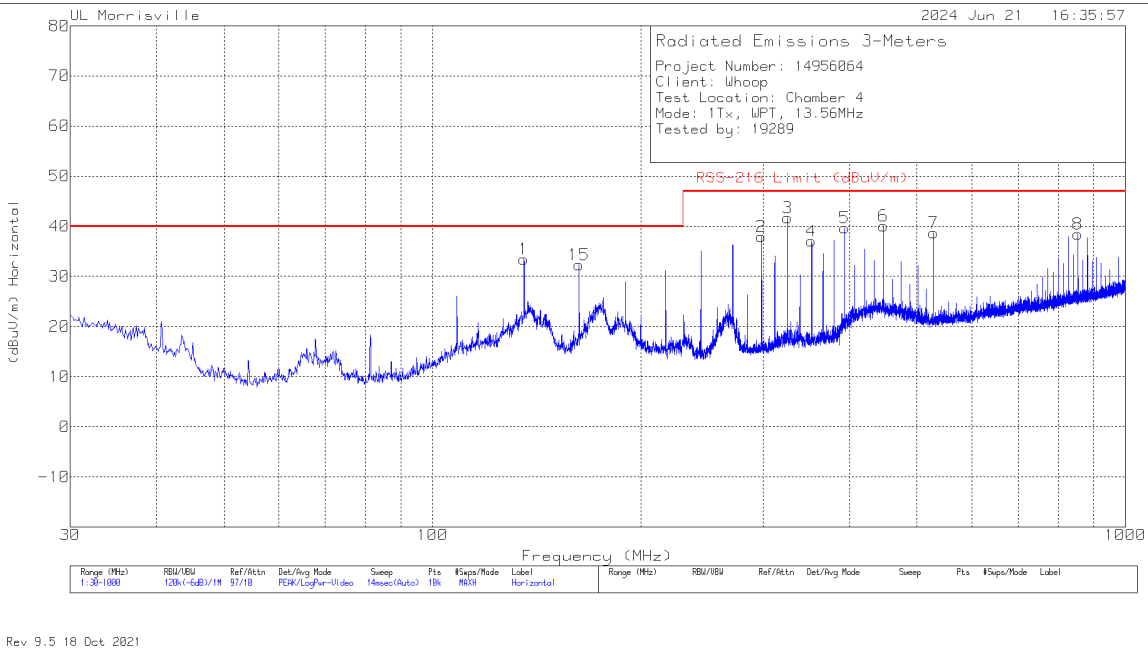
DATA – Flat

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dBuV/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	12.972	15.22	Pk	10.7	.5	-40	-13.58	29.5	-43.08	158	100	Flat
2	13.217	16.12	Pk	10.7	.5	-40	-12.68	40.5	-53.18	158	100	Flat
3	13.4655	19.11	Pk	10.7	.5	-40	-9.69	50.5	-60.19	158	100	Flat
4	13.56	35.96	Pk	10.7	.5	-40	7.16	84	-76.84	158	100	Flat
5	13.658	18.55	Pk	10.7	.5	-40	-10.25	50.5	-60.75	158	100	Flat
6	13.77	19.9	Pk	10.7	.5	-40	-8.9	40.5	-49.4	158	100	Flat
7	14.029	15.69	Pk	10.7	.5	-40	-13.11	29.5	-42.61	158	100	Flat

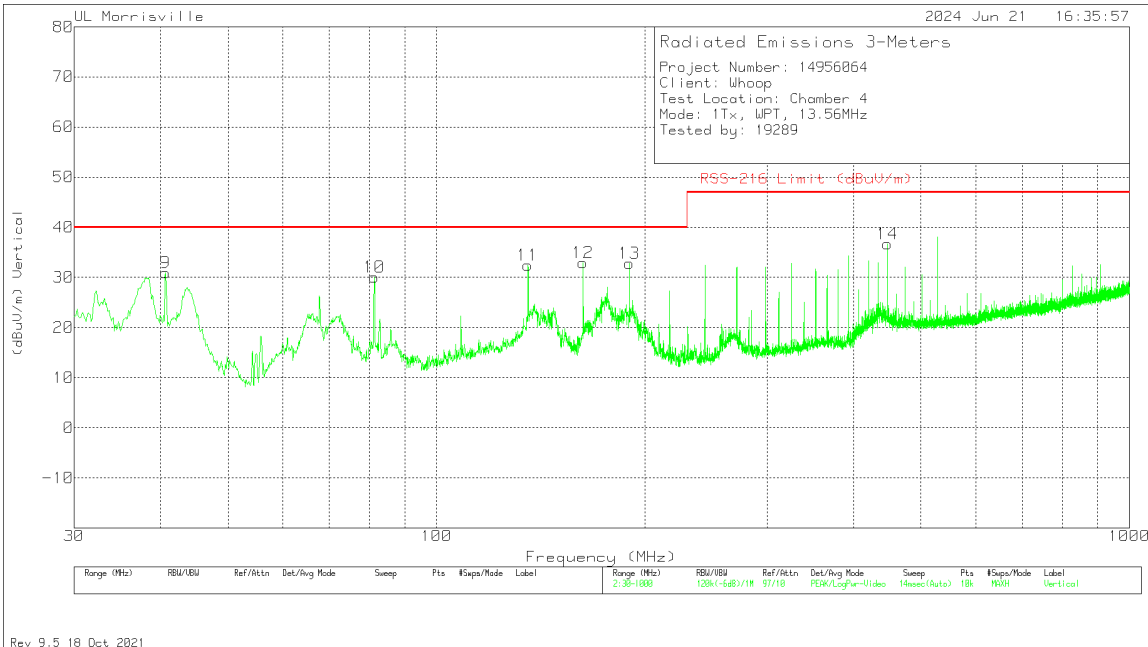
Pk - Peak detector

9.4. IC / RSS-216 TX SPURIOUS EMISSION 30 TO 1000 MHz

9.4.1. CONFIG 1



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

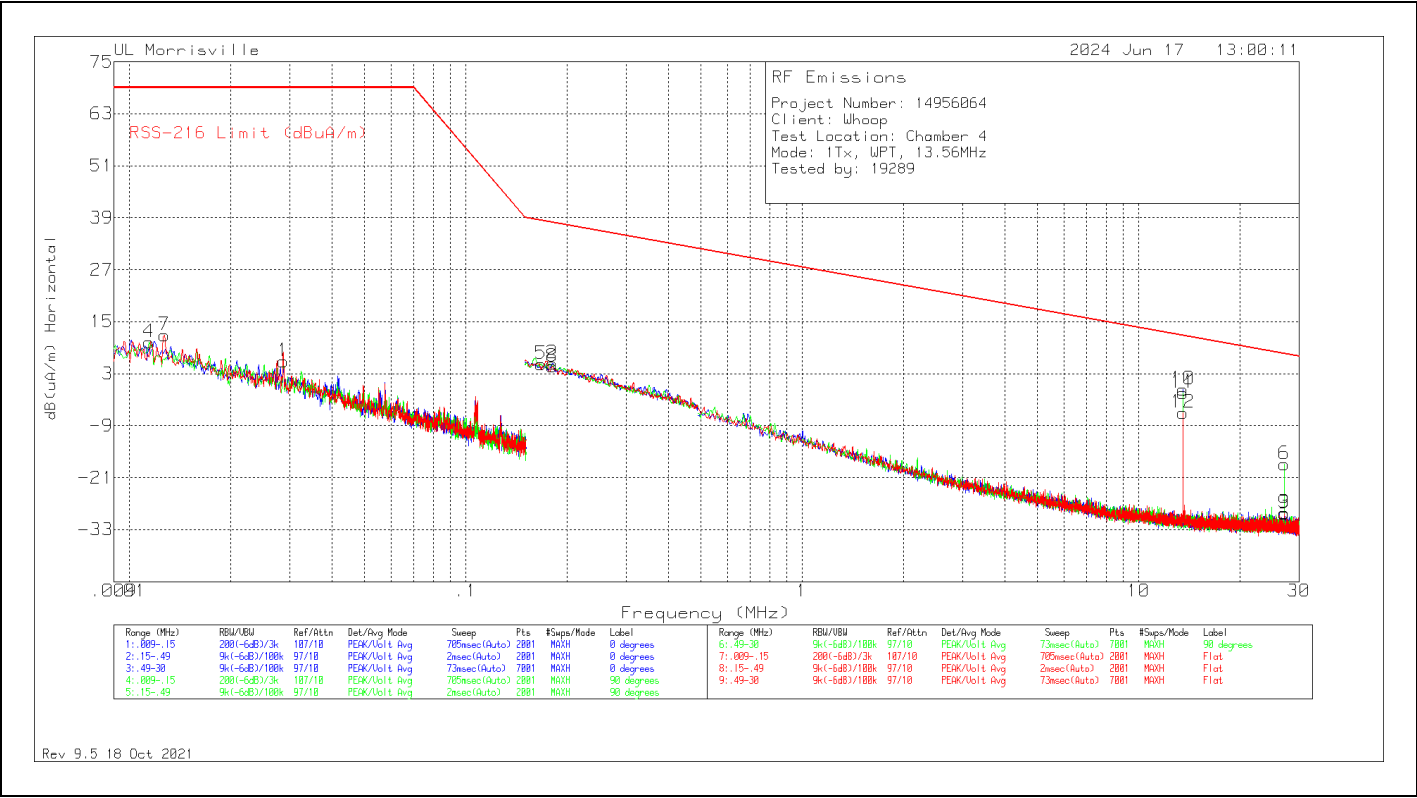
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	RSS-216 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9	40.67	43.42	Pk	19.5	-32	30.92	40	-9.08	0-360	100	V
10	81.313	48.21	Pk	13.6	-31.7	30.11	40	-9.89	0-360	100	V
1	135.536	45.03	Pk	19.6	-31.2	33.43	40	-6.57	0-360	100	H
11	135.536	44.08	Pk	19.6	-31.2	32.48	40	-7.52	0-360	100	V
15	162.696	45.02	Pk	18.4	-31.1	32.32	40	-7.68	0-360	100	H
12	162.696	45.69	Pk	18.4	-31.1	32.99	40	-7.01	0-360	100	V
13	189.856	46.41	Pk	17.3	-30.9	32.81	40	-7.19	0-360	100	V
2	298.302	48.77	Pk	19.5	-30.3	37.97	47	-9.03	0-360	100	H
3	325.42694	50.99	Qp	20.1	-30.2	40.89	47	-6.11	111	102	H
4	352.525	46.32	Pk	20.6	-29.9	37.02	47	-9.98	0-360	100	H
5	393.265	48.25	Pk	21.4	-29.9	39.75	47	-7.25	0-360	100	H
6	447.488	47.02	Pk	22.8	-29.7	40.12	47	-6.88	0-360	100	H
14	447.488	43.63	Pk	22.8	-29.7	36.73	47	-10.27	0-360	100	V
7	528.871	44.18	Pk	24	-29.5	38.68	47	-8.32	0-360	100	H
8	854.306	38.44	Pk	27.8	-27.8	38.44	47	-8.56	0-360	100	H

Pk - Peak detector

Qp - Quasi-Peak detector

9.5. RSS-216 FUNDAMENTAL & SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz

9.5.1. CONFIG 1



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	135144 (dBuA/m)	Gain/Loss (dB)	Corrected Reading dB(uA/m)	RSS-216 Limit (dBuA/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
4	.01141	43.93	Pk	-33.7	.1	10.33	69	-58.67	0-360	90 degs
7	.01269	45.99	Pk	-34.2	.1	11.89	69	-57.11	0-360	Flat
1	.02867	43.68	Pk	-37.9	.1	5.88	69	-63.12	0-360	0 degs
5	.16734	45.54	Pk	-40.4	.1	5.24	38.34	-33.1	0-360	90 degs
2	.18103	45.66	Pk	-40.4	.1	5.36	37.86	-32.5	0-360	0 degs
8	.18111	44.95	Pk	-40.4	.1	4.65	37.86	-33.21	0-360	Flat
10	13.5596	39.64	Pk	-40.8	.5	-.66	11.8	-12.46	0-360	0 degs
11	13.5596	38.79	Pk	-40.8	.5	-1.51	11.8	-13.31	0-360	90 degs
12	13.5596	34.36	Pk	-40.8	.5	-5.94	11.8	-17.74	0-360	Flat
3	27.12247	12.74	Pk	-42.5	.7	-29.06	7.61	-36.67	0-360	0 degs
6	27.12247	23.98	Pk	-42.5	.7	-17.82	7.61	-25.43	0-360	90 degs
9	27.12247	12.48	Pk	-42.5	.7	-29.32	7.61	-36.93	0-360	Flat

Pk - Peak detector

10. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

RSS-Gen 8.8; RSS-216 6.2.2.1

Frequency of Emission (MHz)	Conducted Limit (dB μ A)	
	Quasi-peak	Average
0.009-0.05	110	-
0.05-0.15	90 to 80 *	-
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

TEST PROCEDURE

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 for above 150kHz and 200Hz for below 150kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

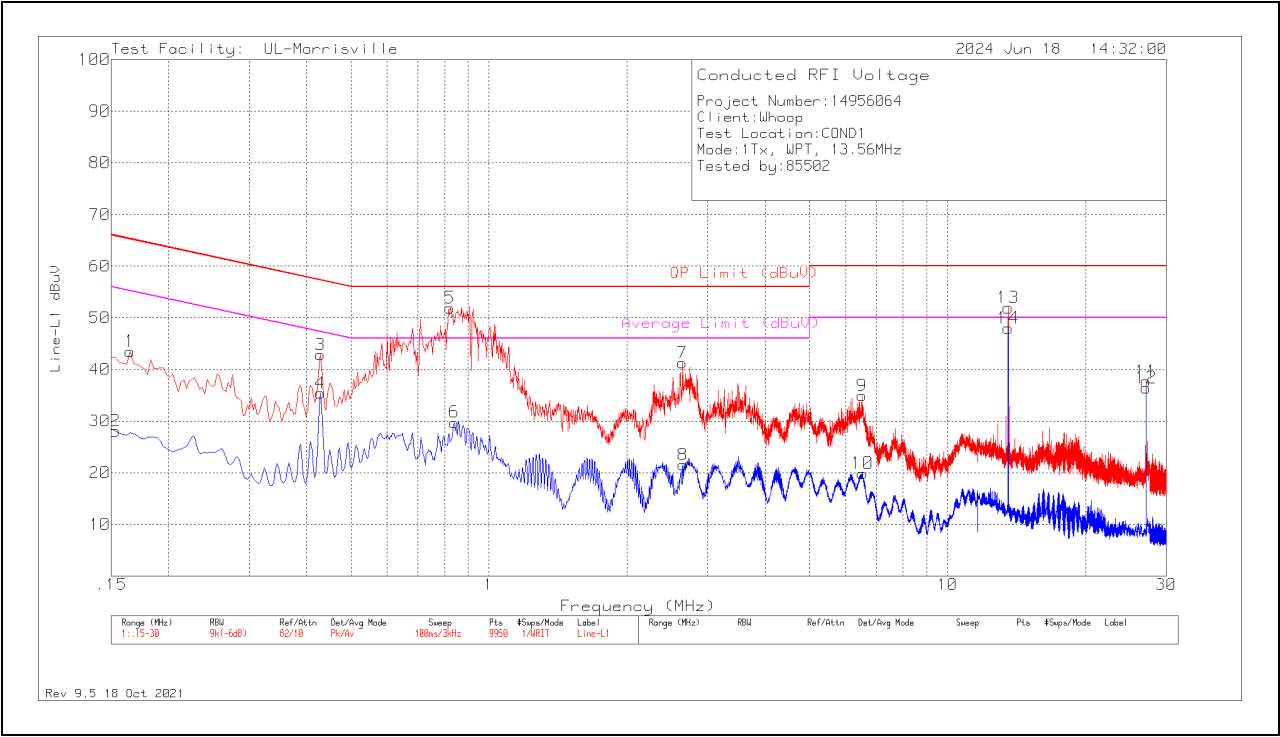
Line conducted data is recorded for both lines.

RESULTS

10.1. FCC 15.207 AC MAINS LINE CONDUCTED

10.1.1. CONFIG 1

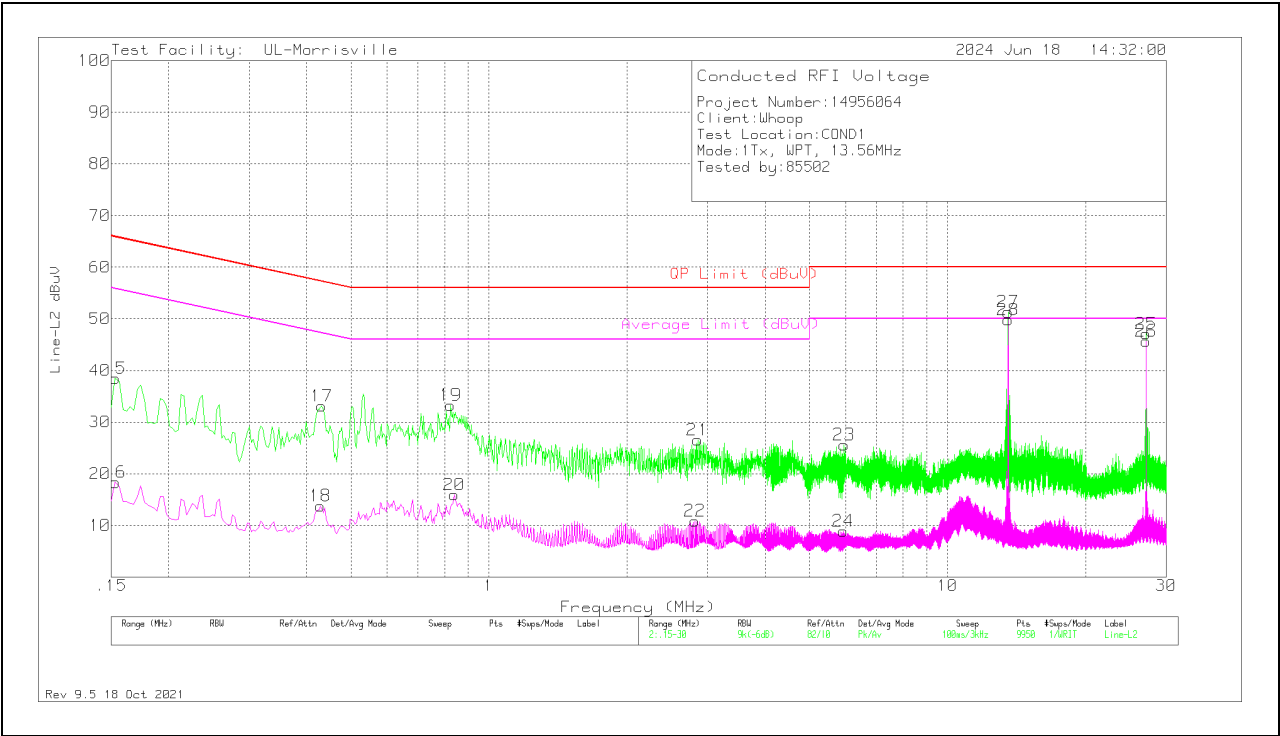
LINE 1 RESULTS



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	.165	33.4	Pk	.3	9.8	43.5	65.21	-21.71	-	-
2	.153	17.97	Av	.3	9.8	28.07	-	-	55.84	-27.77
3	.429	32.94	Pk	.1	9.8	42.84	57.27	-14.43	-	-
4	.429	25.52	Av	.1	9.8	35.42	-	-	47.27	-11.85
5	.80796	24.74	Qp	.1	9.8	34.64	56	-21.36	-	-
6	.84	19.86	Av	.1	9.8	29.76	-	-	46	-16.24
7	2.64	31.36	Pk	.1	9.8	41.26	56	-14.74	-	-
8	2.646	11.63	Av	.1	9.8	21.53	-	-	46	-24.47
9	6.516	24.92	Pk	.1	9.9	34.92	60	-25.08	-	-
10	6.522	9.86	Av	.1	9.9	19.86	-	-	50	-30.14
11	27.12	27.21	Pk	.3	10.2	37.71	60	-22.29	-	-
12	27.12	25.95	Av	.3	10.2	36.45	-	-	50	-13.55
*13	13.56	41.75	Pk	.2	10	51.95	60	-8.05	-	-
*14	13.56	37.78	Av	.2	10	47.98	-	-	50	-2.02

Pk - Peak detector
Qp - Quasi-Peak detector
Av - Average detection
*Note: Fundamental Frequency

LINE 2 RESULTS

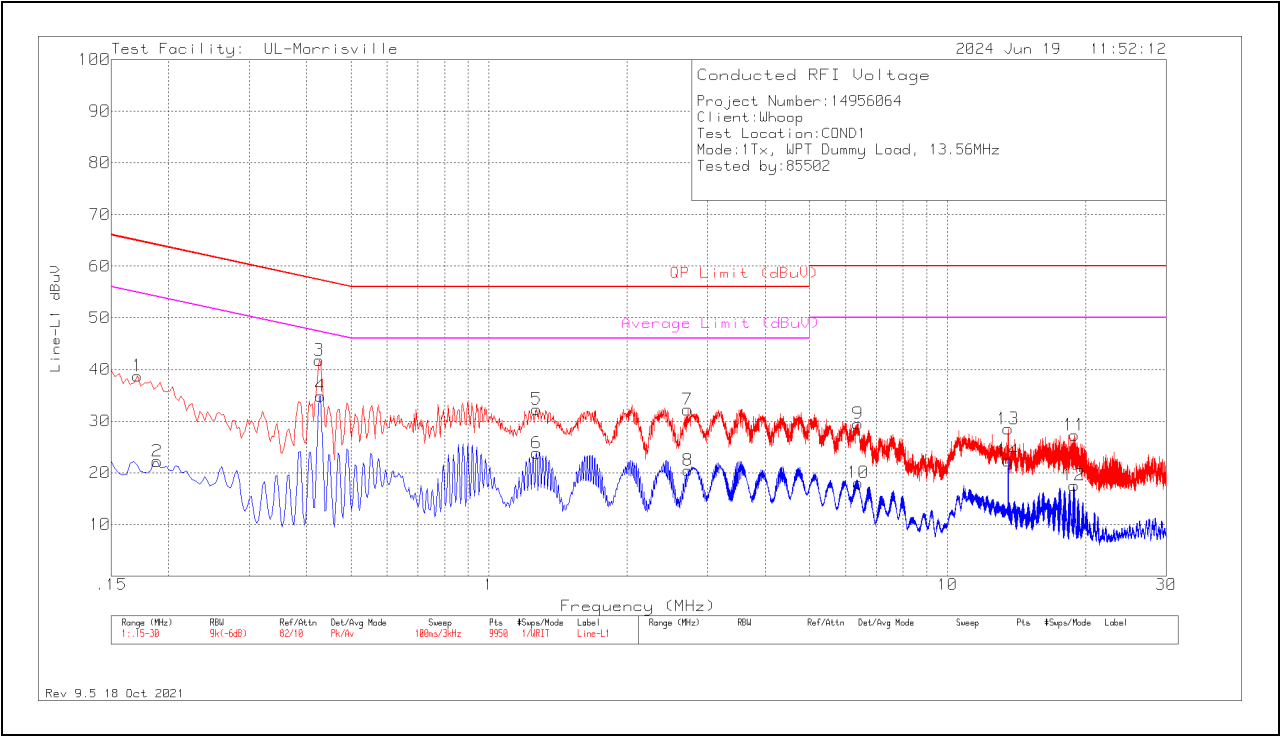


Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
15	.153	28.35	Pk	.3	9.8	38.45	65.84	-27.39	-	-
16	.153	8.23	Av	.3	9.8	18.33	-	-	55.84	-37.51
17	.432	23.2	Pk	.1	9.8	33.1	57.21	-24.11	-	-
18	.429	3.86	Av	.1	9.8	13.76	-	-	47.27	-33.51
19	.825	23.36	Pk	.1	9.8	33.26	56	-22.74	-	-
20	.84	6.02	Av	.1	9.8	15.92	-	-	46	-30.08
21	2.853	16.63	Pk	.1	9.8	26.53	56	-29.47	-	-
22	2.814	.97	Av	.1	9.8	10.87	-	-	46	-35.13
23	5.949	15.58	Pk	.1	9.9	25.58	60	-34.42	-	-
24	5.925	-1.12	Av	.1	9.9	8.88	-	-	50	-41.12
25	27.12	36.61	Pk	.3	10.2	47.11	60	-12.89	-	-
26	27.12	35.18	Av	.3	10.2	45.68	-	-	50	-4.32
*27	13.56	41.13	Pk	.2	10	51.33	60	-8.67	-	-
*28	13.56	39.58	Av	.2	10	49.78	-	-	50	-22

Pk - Peak detector
Qp - Quasi-Peak detector
Av - Average detection
*Note: Fundamental Frequency

10.1.2. CONFIG 2

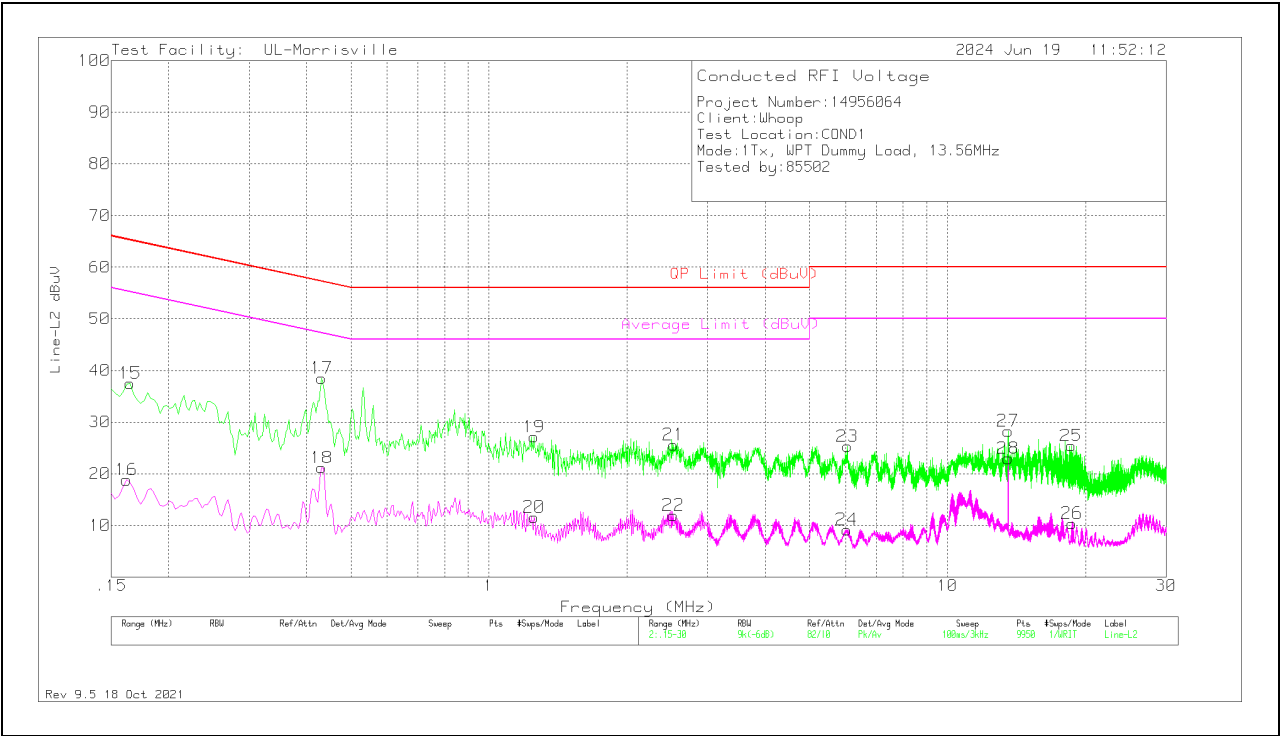
LINE 1 RESULTS



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	.171	28.65	Pk	.3	9.8	38.75	64.91	-26.16	-	-
2	.189	12.22	Av	.2	9.8	22.22	-	-	54.08	-31.86
3	.426	31.9	Pk	.1	9.8	41.8	57.33	-15.53	-	-
4	.429	24.96	Av	.1	9.8	34.86	-	-	47.27	-12.41
5	1.269	22.41	Pk	.1	9.8	32.31	56	-23.69	-	-
6	1.269	13.91	Av	.1	9.8	23.81	-	-	46	-22.19
7	2.712	22.31	Pk	.1	9.8	32.21	56	-23.79	-	-
8	2.718	10.56	Av	.1	9.8	20.46	-	-	46	-25.54
9	6.381	19.51	Pk	.1	9.9	29.51	60	-30.49	-	-
10	6.384	8.06	Av	.1	9.9	18.06	-	-	50	-31.94
11	18.903	17	Pk	.2	10.1	27.3	60	-32.7	-	-
12	18.885	7.28	Av	.2	10.1	17.58	-	-	50	-32.42
13	13.56	18.29	Pk	.2	10	28.49	60	-31.51	-	-
14	13.56	12.16	Av	.2	10	22.36	-	-	50	-27.64

Pk - Peak detector
Av - Average detection

LINE 2 RESULTS



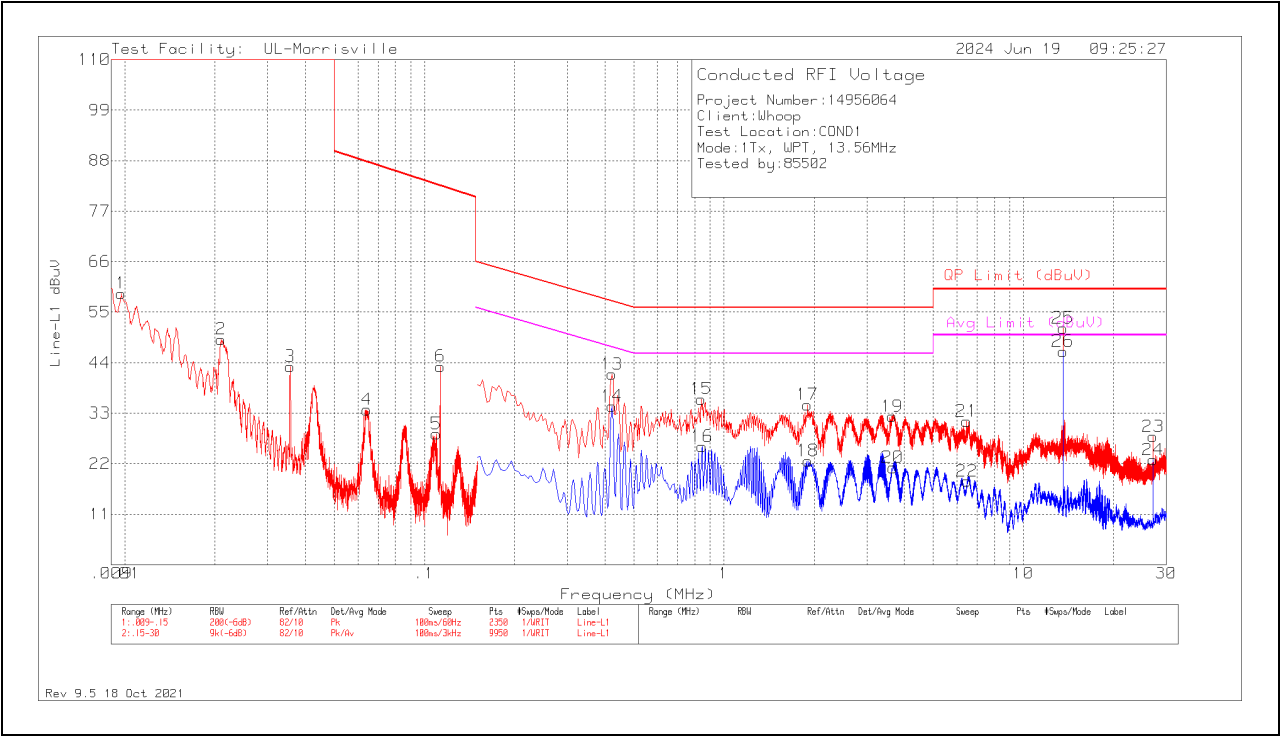
Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
15	.165	27.41	Pk	.3	9.8	37.51	65.21	-27.7	-	-
16	.162	8.73	Av	.3	9.8	18.83	-	-	55.36	-36.53
17	.432	28.61	Pk	.1	9.8	38.51	57.21	-18.7	-	-
18	.432	11.25	Av	.1	9.8	21.15	-	-	47.21	-26.06
19	1.254	17.23	Pk	.1	9.8	27.13	56	-28.87	-	-
20	1.254	1.68	Av	.1	9.8	11.58	-	-	46	-34.42
21	2.526	15.7	Pk	.1	9.8	25.6	56	-30.4	-	-
22	2.523	2.03	Av	.1	9.8	11.93	-	-	46	-34.07
23	6.051	15.3	Pk	.1	9.9	25.3	60	-34.7	-	-
24	6.03	-.85	Av	.1	9.9	9.15	-	-	50	-40.85
25	18.612	15.13	Pk	.2	10.1	25.43	60	-34.57	-	-
26	18.672	.07	Av	.2	10.1	10.37	-	-	50	-39.63
27	13.56	18.09	Pk	.2	10	28.29	60	-31.71	-	-
28	13.56	12.77	Av	.2	10	22.97	-	-	50	-27.03

Pk - Peak detector
Av - Average detection

10.2. RSS-216 AC MAINS LINE CONDUCTED

10.2.1. CONFIG 1

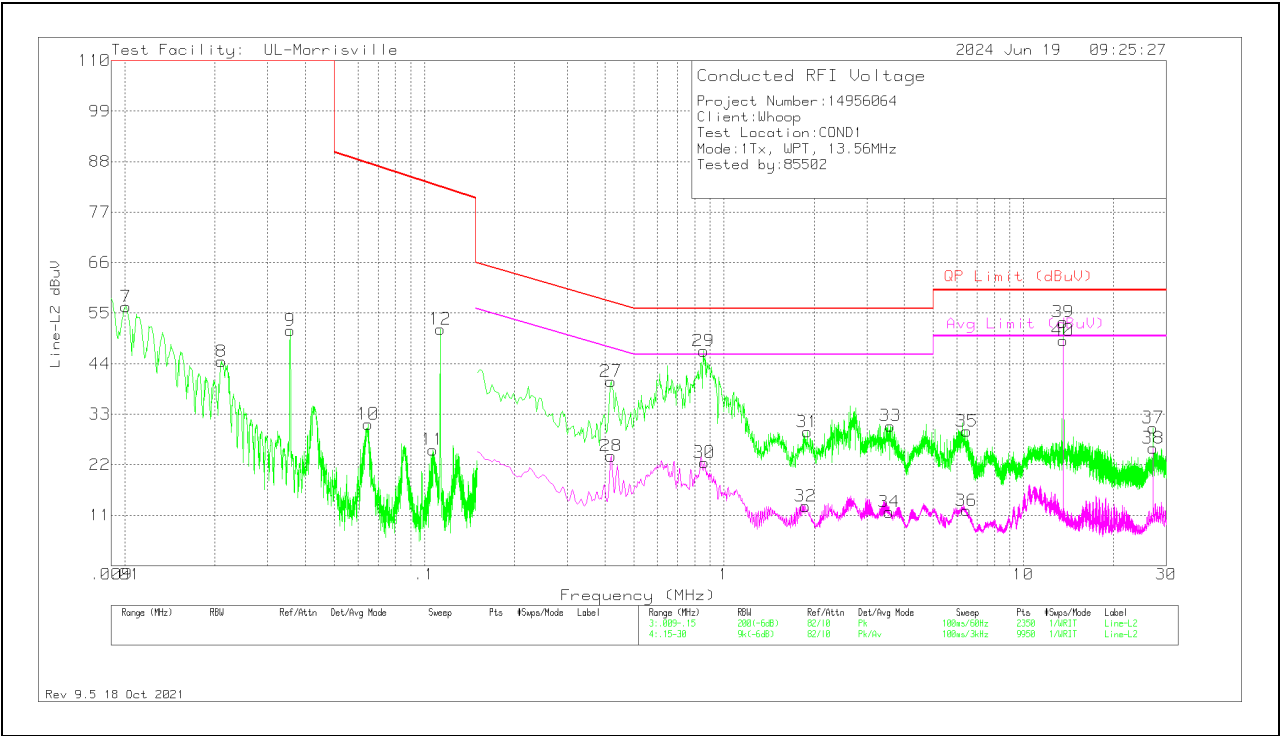
LINE 1 RESULTS



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	72095 (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Avg Limit (dBuV)	Margin (dB)
1	.00972	39.59	Pk	4.5	10.5	54.59	110	-55.41	-	-
2	.02094	35.59	Pk	1.6	10.3	47.49	110	-62.51	-	-
3	.03558	31.76	Pk	.7	10	42.46	110	-67.54	-	-
4	.0642	23.36	Pk	.3	9.8	33.46	87.7	-54.24	-	-
5	.10962	18.5	Pk	.1	9.8	28.4	82.79	-54.39	-	-
6	.11292	33.2	Pk	.1	9.8	43.1	82.52	-39.42	-	-
13	.423	31.48	Pk	.1	9.8	41.38	57.38	-16.0	-	-
14	.423	24.52	Av	.1	9.8	34.42	-	-	47.38	-12.96
15	.84	26.08	Pk	.1	9.8	35.98	56	-20.02	-	-
16	.846	15.75	Av	.1	9.8	25.65	-	-	46	-20.35
17	1.902	24.85	Pk	.1	9.8	34.75	56	-21.25	-	-
18	1.908	12.62	Av	.1	9.8	22.52	-	-	46	-23.48
19	3.648	22.18	Pk	.1	9.9	32.18	56	-23.82	-	-
20	3.66	11.06	Av	.1	9.9	21.06	-	-	46	-24.94
21	6.465	21.14	Pk	.1	9.9	31.14	60	-28.86	-	-
22	6.48	8.11	Av	.1	9.9	18.11	-	-	50	-31.89
23	27.12	17.52	Pk	.1	10.2	27.82	60	-32.18	-	-
24	27.12	12.45	Av	.1	10.2	22.75	-	-	50	-27.25
*25	13.56	41.32	Pk	.1	10	51.42	60	-8.58	-	-
*26	13.56	36.28	Av	.1	10	46.38	-	-	50	-3.62

Pk - Peak detector
Av - Average detection
*Note: Fundamental Frequency

LINE 2 RESULTS

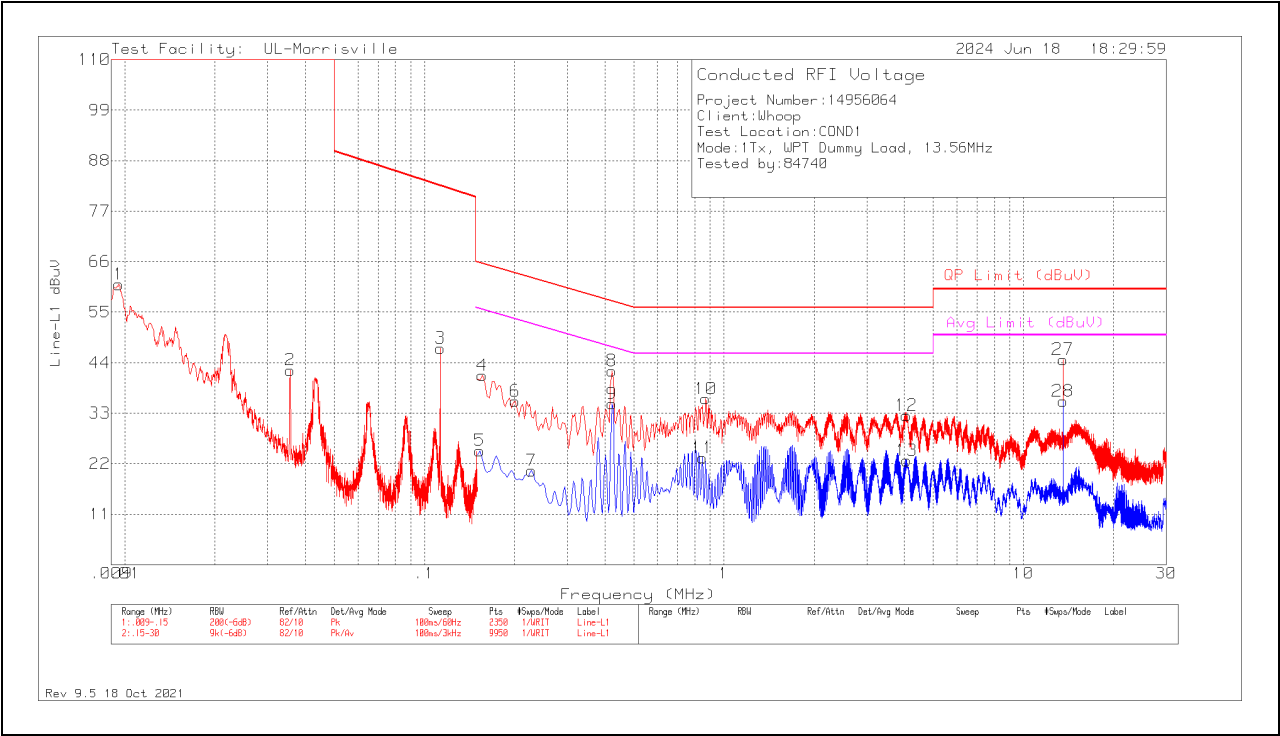


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	72095 (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Avg Limit (dBuV)	Margin (dB)
7	.01008	37.31	Pk	4.3	10.5	52.11	110	-57.89	-	-
8	.021	31	Pk	1.6	10.3	42.9	110	-67.1	-	-
9	.03558	39.84	Pk	.7	10	50.54	110	-59.46	-	-
10	.06486	20.43	Pk	.3	9.8	30.53	87.61	-57.08	-	-
11	.10656	15.25	Pk	.1	9.8	25.15	83.05	-57.9	-	-
12	.11292	41.51	Pk	.1	9.8	51.41	82.52	-31.11	-	-
27	.42	30.13	Pk	.1	9.8	40.03	57.44	-17.41	-	-
28	.42	13.92	Av	.1	9.8	23.82	-	-	47.44	-23.62
29	.855	36.79	Pk	.1	9.8	46.69	56	-9.31	-	-
30	.861	12.46	Av	.1	9.8	22.36	-	-	46	-23.64
31	1.899	19.15	Pk	.1	9.8	29.05	56	-26.95	-	-
32	1.872	2.94	Av	.1	9.8	12.84	-	-	46	-33.16
33	3.597	20.36	Pk	.1	9.9	30.36	56	-25.64	-	-
34	3.561	1.62	Av	.1	9.9	11.62	-	-	46	-34.38
35	6.471	19.2	Pk	.1	9.9	29.2	60	-30.8	-	-
36	6.45	1.94	Av	.1	9.9	11.94	-	-	50	-38.06
37	27.123	19.64	Pk	.1	10.2	29.94	60	-30.06	-	-
38	27.12	15.21	Av	.1	10.2	25.51	-	-	50	-24.49
*39	13.56	42.89	Pk	.1	10	52.99	60	-7.01	-	-
*40	13.56	38.86	Av	.1	10	48.96	-	-	50	-1.04

Pk - Peak detector
Av - Average detection
*Note: Fundamental Frequency

10.2.2. CONFIG 2

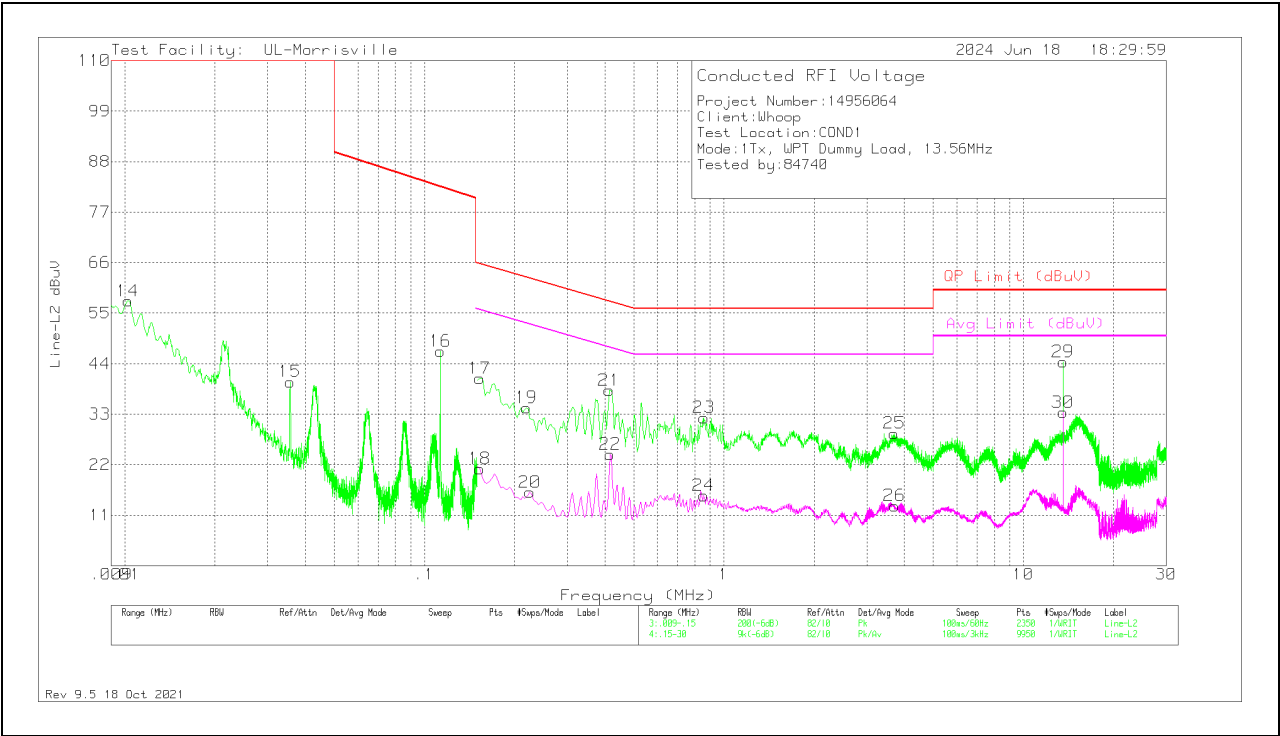
LINE 1 RESULTS



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	72095 (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Avg Limit (dBuV)	Margin (dB)
1	.00954	41.53	Pk	4.5	10.5	56.53	110	-53.47	-	-
2	.03558	30.98	Pk	.7	10	41.68	110	-68.32	-	-
3	.11298	37.16	Pk	.1	9.8	47.06	82.51	-35.45	-	-
5	.153	14.84	Av	.1	9.8	24.74	-	-	55.75	-31.01
4	.156	31.21	Pk	.1	9.8	41.11	65.59	-24.48	-	-
6	.201	25.62	Pk	.1	9.8	35.52	63.51	-27.99	-	-
7	.228	10.48	Av	.1	9.8	20.38	-	-	52.47	-32.09
8	.423	32.21	Pk	.1	9.8	42.11	57.38	-15.27	-	-
9	.423	25.04	Av	.1	9.8	34.94	-	-	47.38	-12.44
11	.849	13.29	Av	.1	9.8	23.39	-	-	46	-22.81
10	.87	26.13	Pk	.1	9.8	36.03	56	-19.97	-	-
12	4.068	22.38	Pk	.1	9.9	32.38	56	-23.62	-	-
13	4.074	12.59	Av	.1	9.9	22.59	-	-	46	-23.41
28	13.56	25.41	Av	.1	10	35.51	-	-	50	-14.49
27	13.563	34.47	Pk	.1	10	44.57	60	-15.43	-	-

Pk - Peak detector
Av - Average detection

LINE 2 RESULTS



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	72095 (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Avg Limit (dBuV)	Margin (dB)
14	.01023	38.76	Pk	4.2	10.5	53.46	110	-56.54	-	-
15	.03558	28.65	Pk	.7	10	39.35	110	-70.65	-	-
16	.11298	36.71	Pk	.1	9.8	46.61	82.51	-35.9	-	-
17	.153	30.8	Pk	.1	9.8	40.7	65.75	-25.05	-	-
18	.153	11.11	Av	.1	9.8	21.01	-	-	55.75	-34.74
19	.219	24.42	Pk	.1	9.8	34.32	62.8	-28.48	-	-
20	.225	6	Av	.1	9.8	15.9	-	-	52.58	-36.68
21	.414	28.19	Pk	.1	9.8	38.09	57.55	-19.46	-	-
22	.417	14.26	Av	.1	9.8	24.16	-	-	47.5	-23.34
24	.855	5.29	Av	.1	9.8	15.19	-	-	46	-30.81
23	.858	22.25	Pk	.1	9.8	32.15	56	-23.85	-	-
25	3.708	18.72	Pk	.1	9.9	28.72	56	-27.28	-	-
26	3.714	2.96	Av	.1	9.9	12.96	-	-	46	-33.04
30	13.56	23.19	Av	.1	10	33.29	-	-	50	-16.71
29	13.563	34.19	Pk	.1	10	44.29	60	-15.71	-	-

Pk - Peak detector
Av - Average detection

11. SETUP PHOTOS

Please refer to R14956064-EP1 for setup photos

END OF TEST REPORT