

TEST REPORT

Report Number: R15110020-E2

Applicant : Sony Corporation
1-7-1 Konan Minato-Ku
Tokyo, 108-0075, Japan

FCC ID : PY7-13187R

EUT Description : GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT & NFC

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C: 2024

Date Of Issue:
2024-03-13

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REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2024-03-13	Initial Issue	Charles Moody

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Sony Corporation
1-7-1 Konan Minato-ku
Tokyo, 108-0075, Japan

EUT DESCRIPTION: GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax,
GPS, WPT & NFC

SERIAL NUMBER: QV77008ZLG

SAMPLE RECEIPT DATE: 2024-01-29

DATE TESTED: 2024-03-07 to 2024-03-08

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Complies

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 UL LLC By:



Mike Antola
Staff Engineer
Consumer Technology Division
UL LLC

Prepared By:



Charles Moody
Engineer
Consumer Technology Division
UL LLC

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC 47 CFR Part 2, and FCC 47 CFR Part 15.

3. 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	

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.)

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)	141.2 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%

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE/5G Phone with BT, DTS, /UNII a/b/g/n/ac/ax, GPS, WPT & NFC. This report covers WPT testing.

5.2. MAXIMUM ELECTRIC FIELD STENGTH

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

Fundamental Frequency (kHz)	Mode	E field (300m distance) FCC (dBuV/m)
115.5	Charging Config 1	-4.58
115.6	Charging Config 2	-4.28

5.3. SOFTWARE AND FIRMWARE

The software version used during testing was 0.662.

5.4. WORST-CASE CONFIGURATION AND MODE

The EUT is a WPT charger operating from 111-148 kHz. Testing on the EUT was performed in the following configurations:

Config	Mode	Descriptions
1	Server: Charging Phone (parallel position)	EUT charging phone in parallel position
2	Server: Charging Phone (perpendicular)	EUT charging phone in perpendicular position

For all radiated emissions tests, both configurations were tested. The device being charged was also tested at several battery percentages. It was determined that a state of 5% charged was the worst case mode of operation. Therefore all emissions testing was performed with the battery at 5%. Both configurations were investigated for worst case emissions. Configuration 1 and Configuration 2 showed worst case emissions when the phones were off center.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel); parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 300 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 D01.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	Sony	Type: AC-0540-JP	3223W09206247	--
Sony Phone Client device for WPT	Sony	XQ-EC72	QV77008ULG	NA
Headphones	Sony	--	--	--

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 EUT to AC Mains

TEST SETUP

The EUT is placed into one of the two configurations prior to testing. Either with the EUT being charged by a client Sony Phone in a parallel, or perpendicular orientation. The EUT was left charging throughout the duration of the test.

SETUP DIAGRAM

Refer to R15110020-EP2 for setup diagrams.

6. 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.
	Common Equipment				
	Conducted Room 1				
90416	Spectrum Analyzer	Keysight Technologies	N9030A	2023-06-09	2024-06-30
90411	Spectrum Analyzer	Keysight Technologies	N9030A	2023-08-02	2024-08-02
207726	Temp/Humid Chamber	Thermotron	SM-32-8200	2024-01-12	2025-01-12
-	DC Regulated Power Supply	Elektro-Automatik GmbH	PSI 9040-60 T	NA	NA
179892	Environmental Meter	Fisher Scientific	15-077-963	2023-07-26	2024-06-31
SOFTEMI	Antenna Port Software	UL	Version 2022.8.16	NA	NA

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 2)

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
85717	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB1	2023-03-01	2024-03-31
	Gain-Loss Chains				
91975	Gain-loss string: 0.009-30MHz	Various	Various	2023-06-06	2024-06-06
91978	Gain-loss string: 25-1000MHz	Various	Various	2023-06-06	2024-06-06
	Receiver & Software				
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2023-04-10	2024-04-10
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
200540	Environmental Meter	Fisher Scientific	15-077-963	2023-07-19	2025-07-19

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	2023-04-04	2024-04-04
179892	Environmental Meter	Fisher Scientific	15-077-963	2023-07-26	2024-06-31
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	2023-04-04	2024-04-04
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	2023-09-18	2024-09-18

7. 20 dB BANDWIDTH

LIMITS

FCC §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.

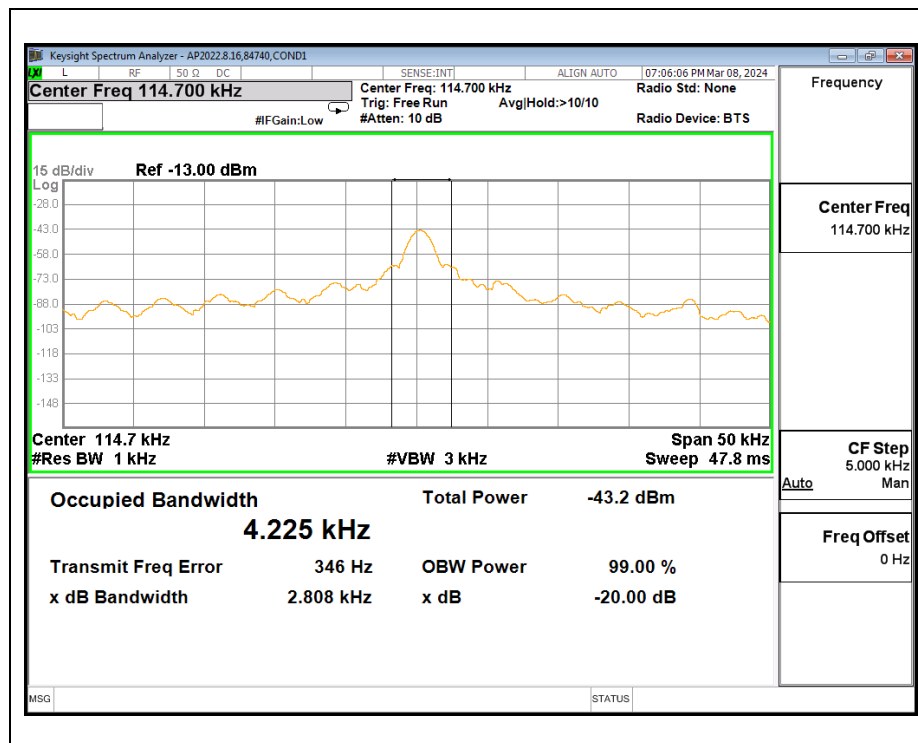
TEST PROCEDURE

The transmitter output is measured on a spectrum analyzer using a near-field probe. 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 20dB bandwidth function is utilized.

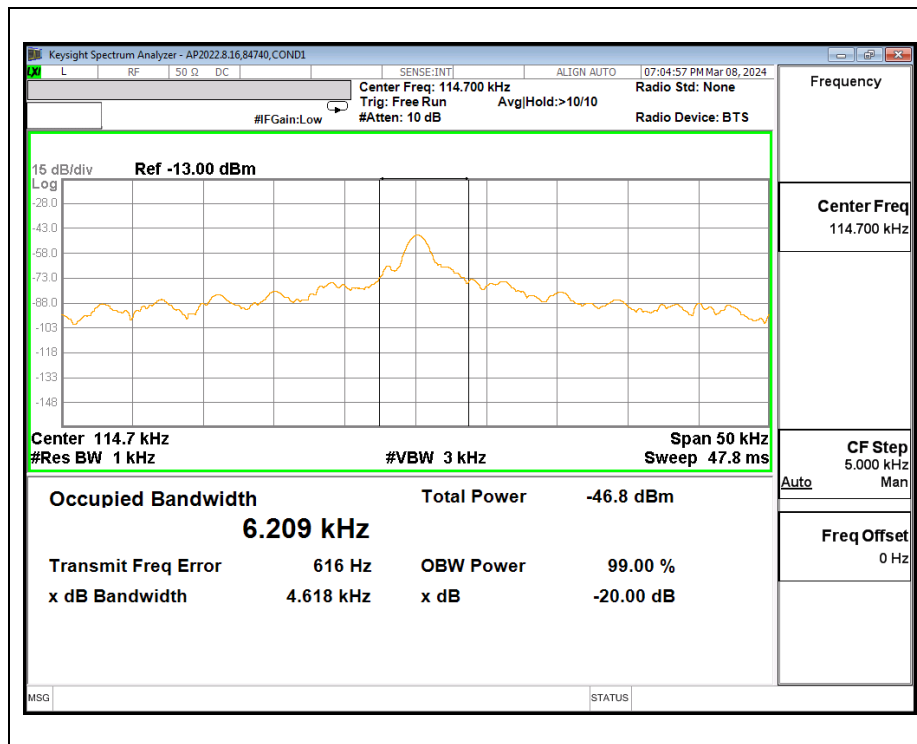
Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

RESULTS

7.1. CONFIG 1



7.2. CONFIG 2



8. RADIATED EMISSION TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMIT

FCC §15.209 (a)

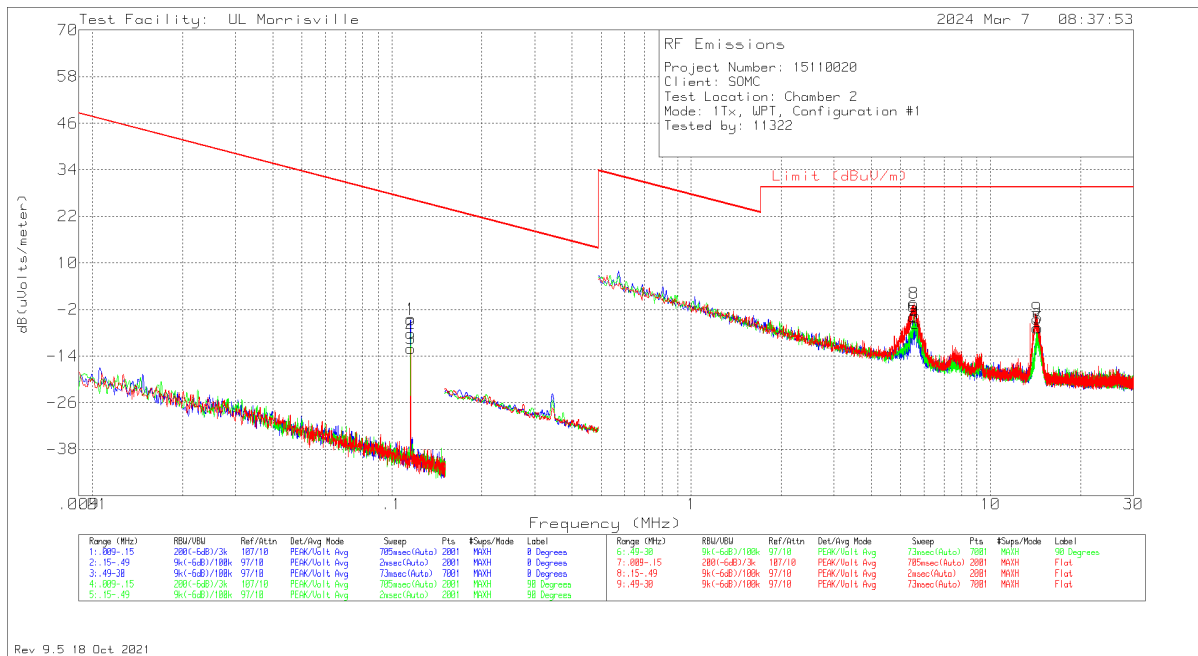
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (m)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100	3
88 to 216	150	3
216 to 960	200	3
Above 960 MHz	500	3
Note: The lower limit shall apply at the transition frequency.		

RESULTS

8.2. FCC TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz

Note: 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 $40 \cdot \log(\text{test distance} / \text{specification distance})$.

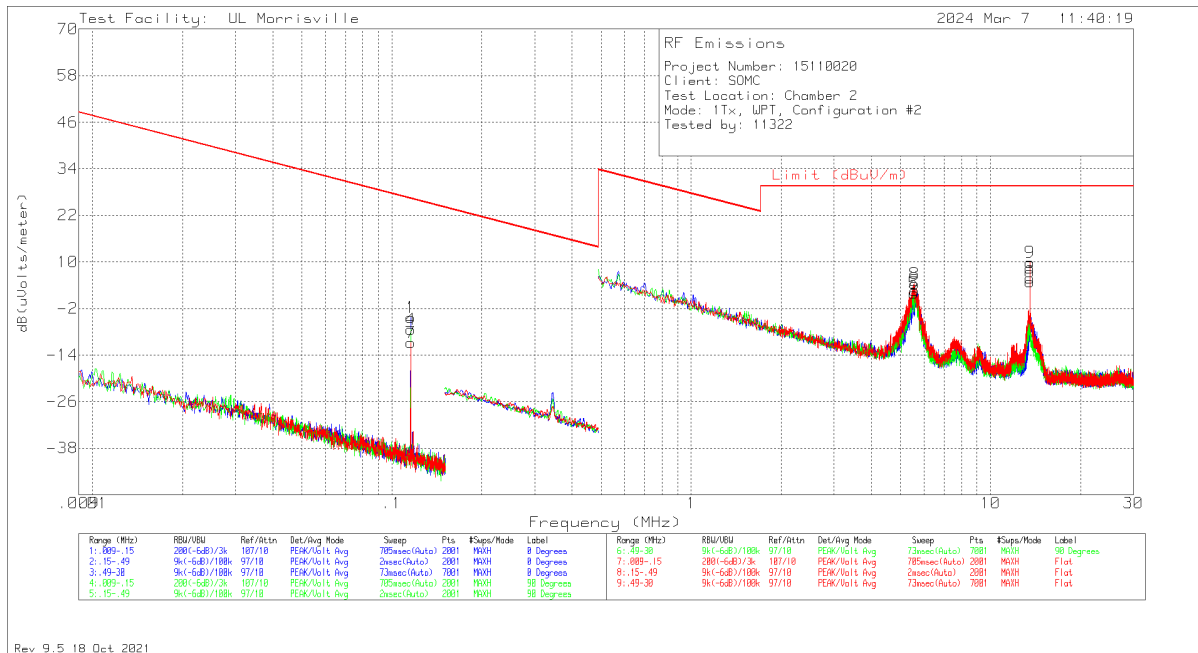
8.2.1. CONFIG 1



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
1	.1155	64.22	Pk	11.1	.1	-80	-4.58	26.35	46.35	-30.93	0-360	0 degs
2	.11557	60.54	Pk	11.1	.1	-80	-8.26	26.35	46.35	-34.61	0-360	90 degs
3	.11564	56.73	Pk	11.1	.1	-80	-12.07	26.34	46.34	-38.41	0-360	Flat
6	5.53655	24.41	Pk	11.3	.4	-40	-3.89	29.54	-	-33.43	0-360	90 degs
8	5.54077	27.79	Pk	11.3	.4	-40	-.51	29.54	-	-30.05	0-360	Flat
4	5.59979	22.69	Pk	11.3	.4	-40	-5.61	29.54	-	-35.15	0-360	0 degs
9	14.26367	24.18	Pk	10.7	.7	-40	-4.42	29.54	-	-33.96	0-360	Flat
7	14.31005	21.84	Pk	10.7	.7	-40	-6.76	29.54	-	-36.3	0-360	90 degs
5	14.38594	21.83	Pk	10.7	.7	-40	-6.77	29.54	-	-36.31	0-360	0 degs

Pk - Peak detector

8.2.2. CONFIG 2



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
1	.11564	64.52	Pk	11.1	.1	-80	-4.28	26.34	46.34	-30.62	0-360	0 degs
4	.11564	61.33	Pk	11.1	.1	-80	-7.47	26.34	46.34	-33.81	0-360	90 degs
7	.11564	57.99	Pk	11.1	.1	-80	-10.81	26.34	46.34	-37.15	0-360	Flat
5	5.54077	30.2	Pk	11.3	.4	-40	1.9	29.54	-	-27.64	0-360	90 degs
2	5.57028	30.9	Pk	11.3	.4	-40	2.6	29.54	-	-26.94	0-360	0 degs
8	5.5745	32.64	Pk	11.3	.4	-40	4.34	29.54	-	-25.2	0-360	Flat
3	13.5596	34.6	Pk	10.7	.6	-40	5.9	29.54	-	-23.64	0-360	0 degs
6	13.5596	33.57	Pk	10.7	.6	-40	4.87	29.54	-	-24.67	0-360	90 degs
9	13.5596	38.58	Pk	10.7	.6	-40	9.88	29.54	-	-19.66	0-360	Flat

Pk - Peak detector

9. 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.

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.

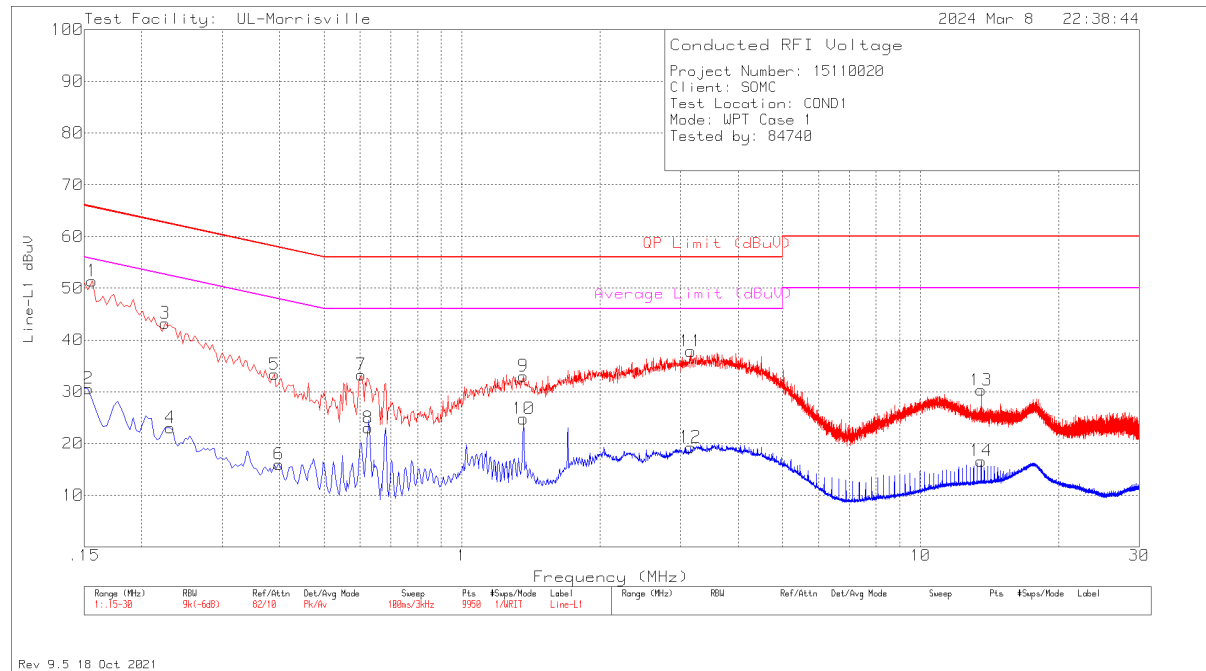
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both lines.

RESULTS

9.1.1. CONFIG 1

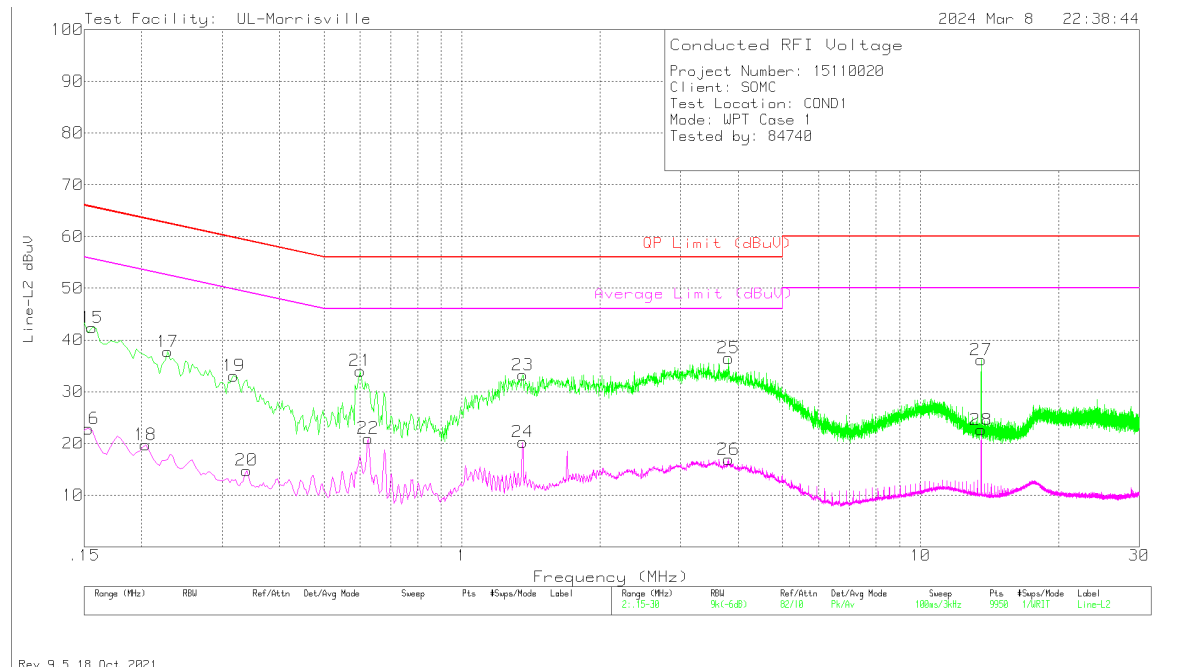
LINE 1 RESULTS



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	.156	41.33	Pk	.3	9.8	51.43	65.67	-14.24	-	-
2	.153	20.51	Av	.3	9.8	30.61	-	-	55.84	-25.23
3	.225	33.25	Pk	.2	9.8	43.25	62.63	-19.38	-	-
4	.231	13.01	Av	.2	9.8	23.01	-	-	52.41	-29.4
5	.39	23.46	Pk	.1	9.8	33.36	58.06	-24.7	-	-
6	.399	6.09	Av	.1	9.8	15.99	-	-	47.87	-31.88
7	.603	23.36	Pk	.1	9.8	33.26	56	-22.74	-	-
8	.624	13.11	Av	.1	9.8	23.01	-	-	46	-22.99
9	1.362	23.14	Pk	.1	9.8	33.04	56	-22.96	-	-
10	1.362	14.89	Av	.1	9.8	24.79	-	-	46	-21.21
11	3.156	27.93	Pk	.1	9.8	37.83	56	-18.17	-	-
12	3.15	9.37	Av	.1	9.8	19.27	-	-	46	-26.73
13	13.563	20.11	Pk	.2	10	30.31	60	-29.69	-	-
14	13.56	6.41	Av	.2	10	16.61	-	-	50	-33.39

Pk - Peak detector
Av - Average detection

LINE 2 RESULTS

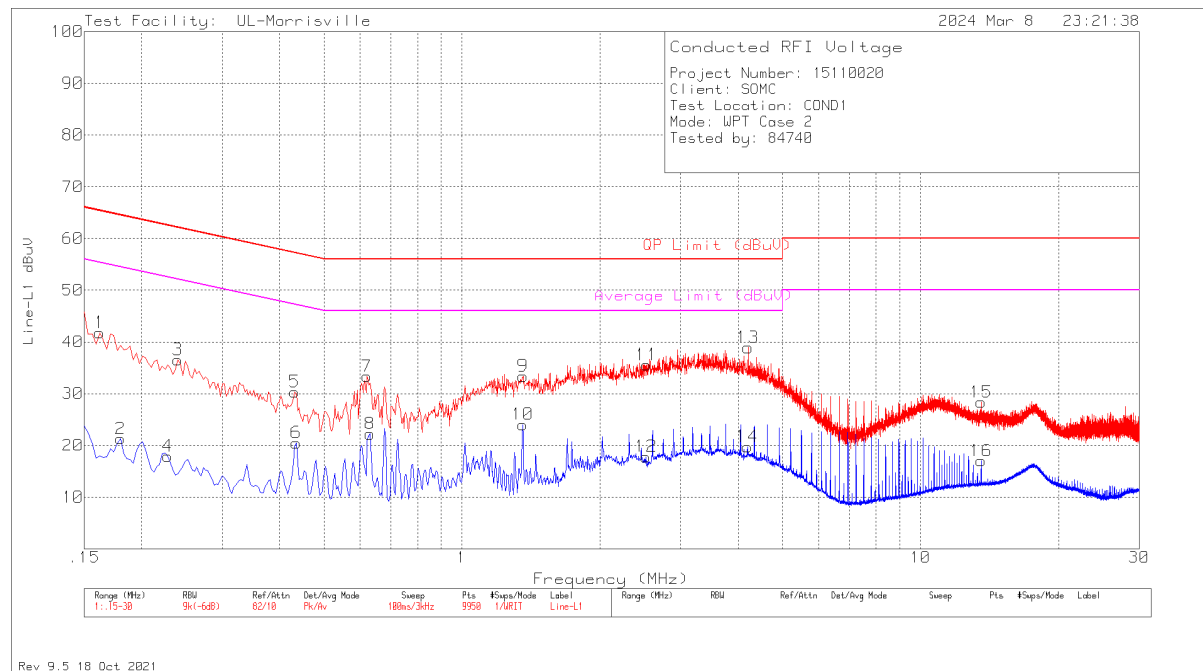


Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
15	.156	32.27	Pk	.3	9.8	42.37	65.67	-23.3	-	-
16	.153	12.74	Av	.3	9.8	22.84	-	-	55.84	-33
17	.228	27.74	Pk	.2	9.8	37.74	62.52	-24.78	-	-
18	.204	9.72	Av	.2	9.8	19.72	-	-	53.45	-33.73
19	.318	23.17	Pk	.1	9.8	33.07	59.76	-26.69	-	-
20	.339	4.88	Av	.1	9.8	14.78	-	-	49.23	-34.45
21	.6	24.13	Pk	.1	9.8	34.03	56	-21.97	-	-
22	.624	11.08	Av	.1	9.8	20.98	-	-	46	-25.02
23	1.356	23.33	Pk	.1	9.8	33.23	56	-22.77	-	-
24	1.356	10.37	Av	.1	9.8	20.27	-	-	46	-25.73
25	3.813	26.47	Pk	.1	9.9	36.47	56	-19.53	-	-
26	3.813	6.91	Av	.1	9.9	16.91	-	-	46	-29.09
27	13.56	25.94	Pk	.2	10	36.14	60	-23.86	-	-
28	13.56	12.43	Av	.2	10	22.63	-	-	50	-27.37

Pk - Peak detector
Av - Average detection

9.1.2. CONFIG 2

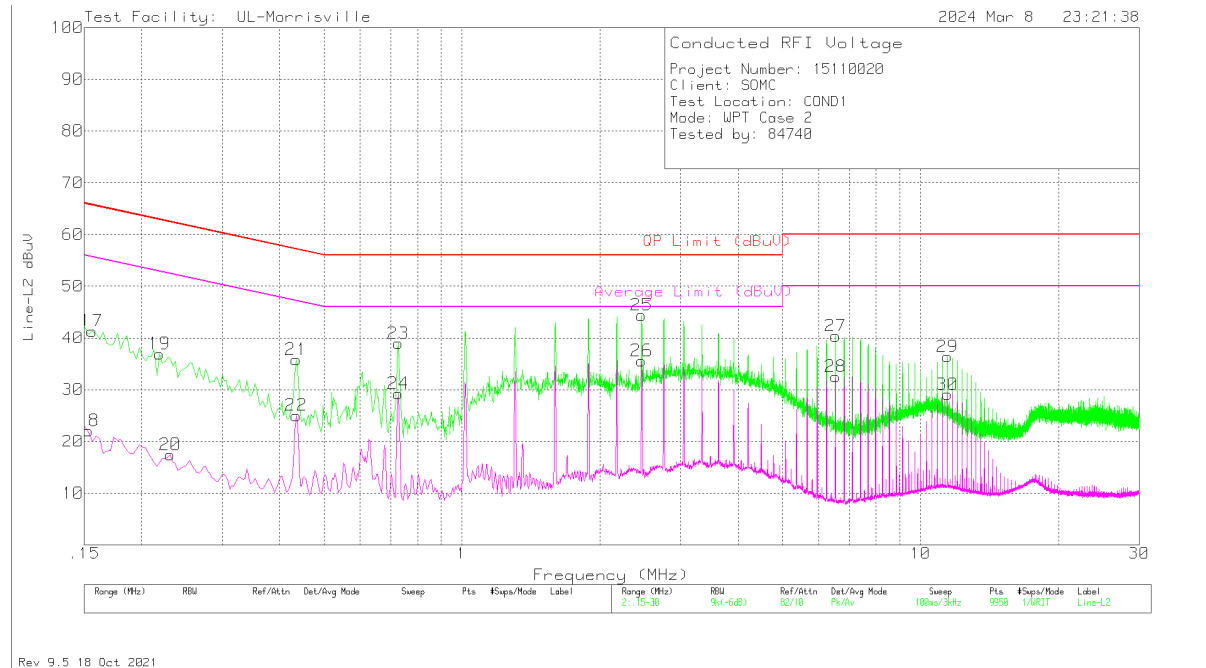
LINE 1 RESULTS



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	.162	31.68	Pk	.3	9.8	41.78	65.36	-23.58	-	-
2	.18	11.18	Av	.3	9.8	21.28	-	-	54.49	-33.21
3	.24	26.56	Pk	.2	9.8	36.56	62.1	-25.54	-	-
4	.228	7.91	Av	.2	9.8	17.91	-	-	52.52	-34.61
5	.432	20.45	Pk	.1	9.8	30.35	57.21	-26.86	-	-
6	.435	10.61	Av	.1	9.8	20.51	-	-	47.16	-26.65
7	.621	23.46	Pk	.1	9.8	33.36	56	-22.64	-	-
8	.63	12.33	Av	.1	9.8	22.23	-	-	46	-23.77
9	1.359	23.5	Pk	.1	9.8	33.4	56	-22.6	-	-
10	1.356	14.14	Av	.1	9.8	24.04	-	-	46	-21.96
11	2.529	25.66	Pk	.1	9.8	35.56	56	-20.44	-	-
12	2.52	7.93	Av	.1	9.8	17.83	-	-	46	-28.17
13	4.206	28.91	Pk	.1	9.9	38.91	56	-17.09	-	-
14	4.194	9.74	Av	.1	9.9	19.74	-	-	46	-26.26
15	13.56	18.16	Pk	.2	10	28.36	60	-31.64	-	-
16	13.563	6.82	Av	.2	10	17.02	-	-	50	-32.98

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)
17	.156	31.24	Pk	.3	9.8	41.34	65.67	-24.33	-	-
18	.153	11.97	Av	.3	9.8	22.07	-	-	55.84	-33.77
19	.219	26.92	Pk	.2	9.8	36.92	62.86	-25.94	-	-
20	.231	7.41	Av	.2	9.8	17.41	-	-	52.41	-35
21	.435	25.9	Pk	.1	9.8	35.8	57.16	-21.36	-	-
22	.435	15.11	Av	.1	9.8	25.01	-	-	47.16	-22.15
23	.726	29.06	Pk	.1	9.8	38.96	56	-17.04	-	-
24	.726	19.33	Av	.1	9.8	29.23	-	-	46	-16.77
25	2.466	34.49	Pk	.1	9.8	44.39	56	-11.61	-	-
26	2.466	25.67	Av	.1	9.8	35.57	-	-	46	-10.43
27	6.528	30.38	Pk	.1	9.9	40.38	60	-19.62	-	-
28	6.528	22.51	Av	.1	9.9	32.51	-	-	50	-17.49
29	11.457	26.3	Pk	.1	10	36.4	60	-23.6	-	-
30	11.457	18.97	Av	.1	10	29.07	-	-	50	-20.93

Pk - Peak detector
Av - Average detection

10. SETUP PHOTOS

Please refer to R15110020-EP2 for setup photos

END OF TEST REPORT