

CERTIFICATION TEST REPORT

Report Number. : 4790748041-E14V2

Applicant : SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
GYEONGGI-DO, 16677, KOREA

Model : SM-F946U, SM-F946U1

FCC ID : A3LSMF946U

EUT Description : GSM/WCDMA/LTE 5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax,
NFC, WPT and UWB

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

Date Of Issue:
2023-05-23

Prepared by:
UL KOREA LTD.
26th floor, 152, Teheran-ro, Gangnam-gu Seoul, 06236, Korea

Suwon Test Site: UL KOREA LTD. Suwon Laboratory
218 Maeyeong-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16675, Korea
TEL: (031) 337-9902
FAX: (031) 213-5433

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2023-05-16	Initial issue	Dexter(Hyunsik) Yun
V2	2023-05-23	Updated to address TCB's question	Dexter(Hyunsik) Yun

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. CALIBRATION AND UNCERTAINTY	6
4.1. MEASURING INSTRUMENT CALIBRATION.....	6
4.2. SAMPLE CALCULATION.....	6
4.3. MEASUREMENT UNCERTAINTY	6
4.4. DECISION RULE	6
5. EQUIPMENT UNDER TEST	7
5.1. DESCRIPTION OF EUT.....	7
5.2. MAXIMUM E-FIELD STRENGTH.....	7
5.3. PRELIMINARY TEST CONFIGURATIONS.....	7
5.4. WORST-CASE CONFIGURATION AND MODE	8
5.5. MODIFICATIONS.....	9
5.6. DESCRIPTION OF TEST SETUP.....	9
6. TEST AND MEASUREMENT EQUIPMENT	12
7. APPLICABLE LIMITS AND TEST RESULTS	13
7.1. RADIATED EMISSIONS	13
7.1. AC MAINS LINE CONDUCTED EMISSIONS.....	16

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC, WPT and UWB

MODEL NUMBER: SM-F946U, SM-F946U1

SERIAL NUMBER: R3CW30K681J (RADIATED);

DATE TESTED: 2023-04-12 ~ 2023-05-22

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
47 CFR Part 15 Subpart C	Complies

UL KOREA LTD. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL KOREA LTD. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL KOREA LTD. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL KOREA LTD. 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 IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL KOREA LTD. By:



Seokhwan Hong
Suwon Lab Engineer
UL KOREA LTD.

Tested By:



Dexter(Hyunsik) Yun
Suwon Lab Engineer
UL KOREA LTD.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

1. FCC 47 CFR Part 2.
2. FCC 47 CFR Part 15.
3. ANSI C63.10-2013.
4. KDB 680106 D01 RF Exposure Wireless Charging Apps v03.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro	
☒	Chamber 1(3m semi-anechoic chamber)
☒	Chamber 2(3m semi-anechoic chamber)
☐	Chamber 3(3m semi-anechoic chamber)
☐	Chamber 4(3m Full-anechoic chamber)
☐	Chamber 5(3m Full-anechoic chamber)

UL KOREA LTD. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamplifier Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

$$\begin{aligned} \text{Corrected Reading (dBuV)} &= \text{Meter Reading (dBuV)} + \text{External Cable (dB)} + \\ &\text{Cableloss (dB)} \\ 46.62 \text{ dBuV} + 9.8 \text{ dB} + 0.1 \text{ dB} &= 56.52 \text{ dBuV} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	2.80 dB
Radiated Disturbance, 9 kHz to 30 MHz	1.69 dB
Radiated Disturbance, 30 MHz to 1 GHz	3.92 dB

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

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Procedure 2, Clause 4.4.3 in IEC Guide 115:2021.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC, WPT and UWB. This test report addresses the wireless low power transmitter(DCD) operational mode.

Representative model	Difference	Derivative model
		SM-F946U1
SM-F946U	Hardware	Same as SM-F946U
	Software	Different UI

Thus, SM-F946U was set for final test.

5.2. MAXIMUM E-FIELD STRENGTH

- Mode 1

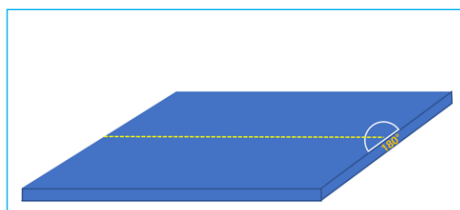
Fundamental Frequency (kHz)	Test Case	E-Field (30m distance) FCC (dBuV/m)
110 - 148	3	3.25

- Mode 2

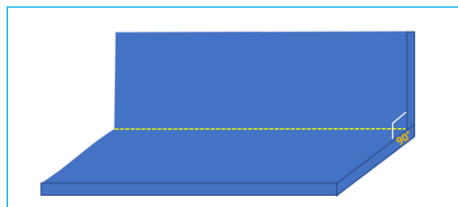
Fundamental Frequency (kHz)	Test Case	E-Field (30m distance) FCC (dBuV/m)
531 - 593	8	6.29

5.3. PRELIMINARY TEST CONFIGURATIONS

	Power sharing mode	Digitizer
Worst case of antenna axis	Y	Z
Foldable condition	Half-folded	Half-folded



Open



Half-folded



Full-folded

5.4. WORST-CASE CONFIGURATION AND MODE

Mode 1	Test Case	Description
Power sharing mode	1	Charging from EUT to Phone
	2	Charging from EUT(Charging from TA) to Phone
	3	Charging from EUT to Phone (Cross position)
	4	Charging from EUT(Charging from TA) to Phone (Cross position)
	5	Charging from EUT to Wearable device
	6	Charging from EUT(Charging from TA) to Wearable device

Mode 2	Test Case	Description
Digitizer	7	Charging from EUT to S-Pen through Display Scan
	8	Charging from EUT (with TA) to S-Pen through Display Scan

For radiated test, test case 1/3/5/7, the EUT can operate the power sharing mode when battery level is over 30%. Because test results are not different between fully charged status and battery level 30% status(EUT condition), test were performed fully charged condition.

Also according to current client device's(Phone and Wearable device) battery level, test results are different. Because the test results were worst when the battery level was 1%~20%, tests were performed when the battery level was 1%~20%. (Client device)
For S-pen, both fully charged and non-fully charged condition were investigated, test case 7/8/9 were performed non-fully charged condition as worst case.

During radiated test for test case 1/3/5/7, the EUT didn't connected AC adapter, but for AC line conducted test for all test case was performed with connected with AC adapter.

For power sharing mode, test results of case 3 is worst case and Digitizer mode, test results of case 8 is worst, so this test report described test case 3 and test case 8.

5.5. MODIFICATIONS

No modifications were made during testing.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT & PERIPHERALS

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37N9QP4SL9DK3	N/A
Data Cable	SAMSUNG	WBR0062M	GH39-02112A	N/A

I/O CABLES

I/O Cable List						
Cable No.	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	C Type	Shielded	1.0 m	N/A

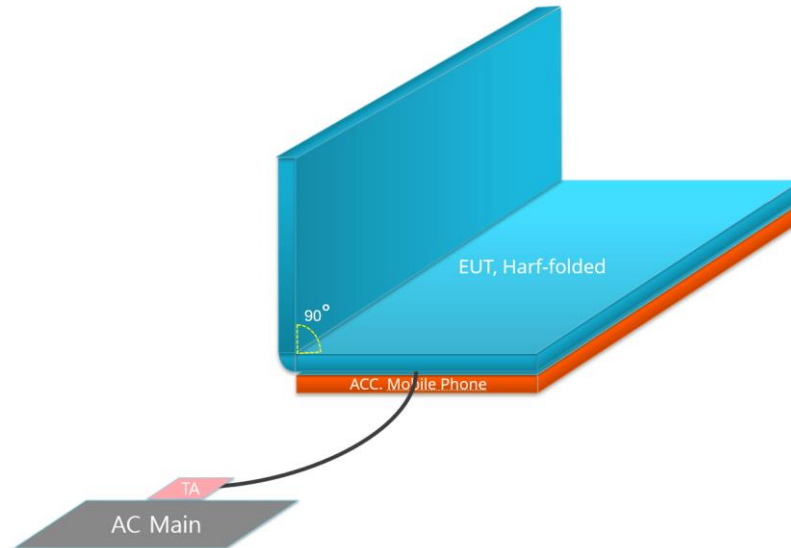
TEST SETUP

The EUT is installed in a typical configuration. Charging from EUT.

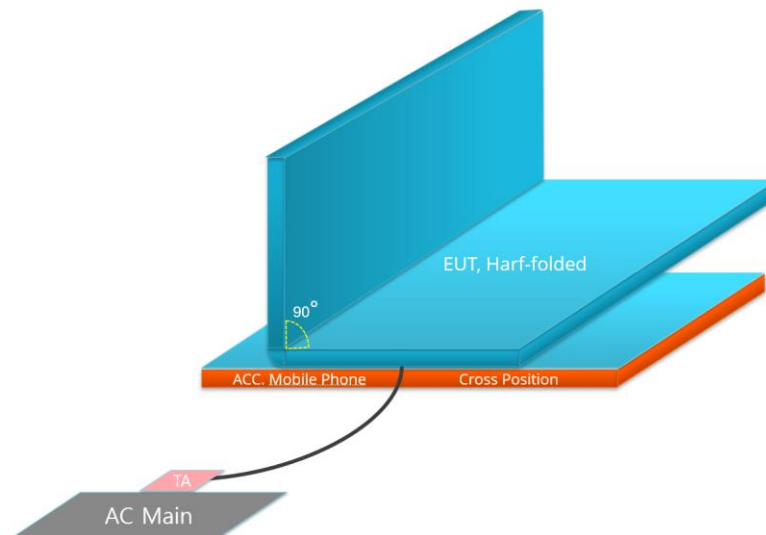
TEST SETUP DIAGRAM

NOTE : Test case 1/3/5/7, EUT did not connected with Travel adapter(AC Main) in below set-up diagram for radiated test.

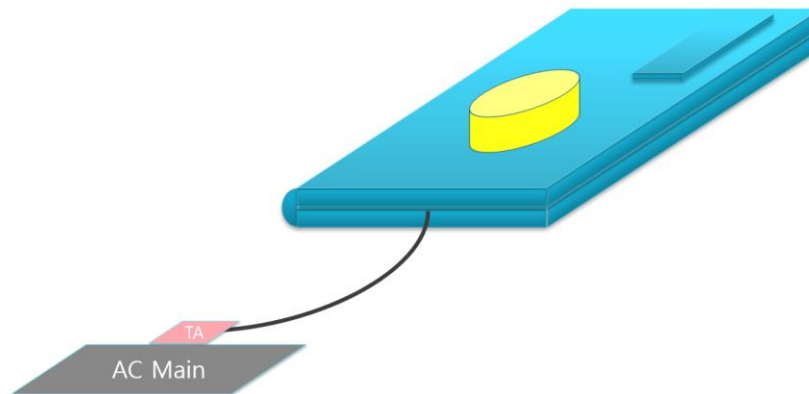
- Test Case1 and 2 : Charging Phone



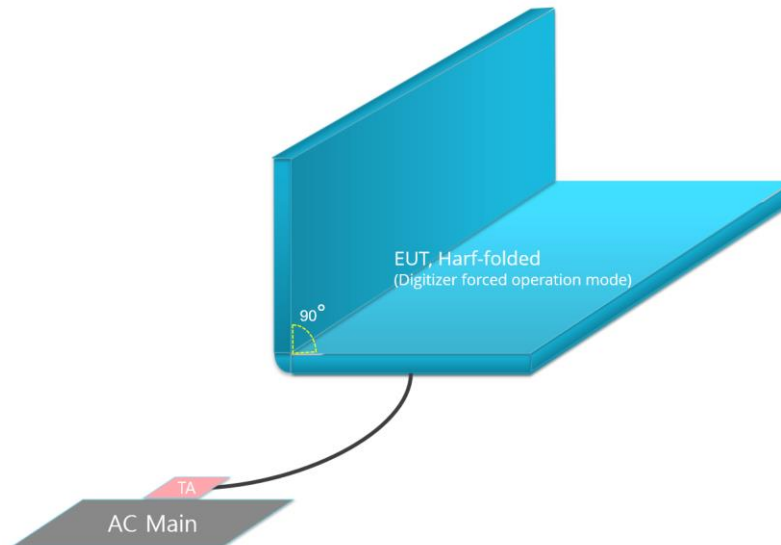
- Test Case 3 and 4 : Charging Phone(Cross position)



- Test Case 5 and 6 : Charging Wearable device



- Test case 7 and 8 : Digitizer



6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	2024-08-15
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	2024-08-15
Preamplifier, 1000 MHz	Sonoma	310N	341282	2023-08-02
Preamplifier, 1000 MHz	Sonoma	310N	351741	2023-08-02
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2023-07-29
EMI Test Receive, 3 GHz	R&S	ESR3	101832	2023-08-01
Spectrum Analyzer, 7 GHz	Agilent / HP	N9010A	MY54200580	2023-08-01
LISN	R&S	ENV-216	101837	2023-08-04
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2	100418	2023-10-06
UL Software				
Description	Manufacturer	Model	Version	
Radiated software	UL	UL EMC	Ver 9.5	
AC Line Conducted software	UL	UL EMC	Ver 9.5	

7. APPLICABLE LIMITS AND TEST RESULTS

7.1. RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.10: 2013

The highest clock frequency generated or used in the EUT is 600 kHz therefore the frequency range was investigated from 9 kHz to 30 MHz.

LIMIT

FCC §15.209 (a)

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

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.		

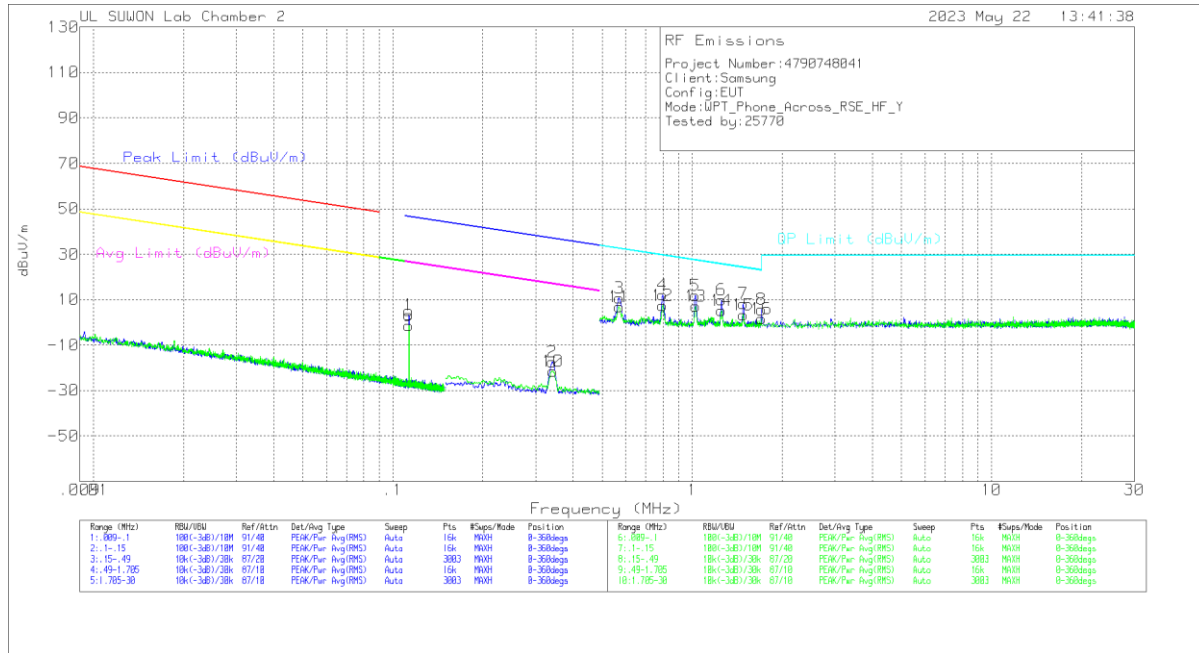
RESULTS

The EUT belongs to Test Case 3 and 8.

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

RADIATED EMISSIONS 9 KHz to 30 MHz(Power sharing mode Test Case 3)



TEST DATA

Trace Markers

[Face On]

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	HFH2-Z2_Loop Antenna	Cable Loss	Dist Corr 300m	Corrected Reading dBuV/m	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
**1	.11323	63.15	Pk	20	.1	-80	3.25	46.55	-43.3	26.55	-23.3	0-360
2	.34125	42.52	Pk	19.9	.1	-80	-17.48	36.95	-54.43	16.95	-34.43	0-360

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	HFH2-Z2_Loop Antenna	Cable Loss	Dist Corr 30m	Corrected Reading dBuV/m	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	.57079	30.55	Pk	20	.1	-40	10.65	32.48	-21.83	0-360
4	.79609	31.83	Pk	20	.2	-40	12.03	29.6	-17.57	0-360
5	1.02462	31.67	Pk	20	.2	-40	11.87	27.41	-15.54	0-360
6	1.25285	29.7	Pk	20	.2	-40	9.9	25.67	-15.77	0-360
7	1.48146	28.14	Pk	20	.2	-40	8.34	24.22	-15.88	0-360
8	1.705	25.36	Pk	20.1	.2	-40	5.66	23	-17.34	0-360

[Face Off]

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	HFH2-Z2_Loop Antenna	Cable Loss	Dist Corr 300m	Corrected Reading dBuV/m	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
**9	.11324	58.56	Pk	20	.1	-80	-1.34	46.55	-47.89	26.55	-27.89	0-360
10	.34238	38.51	Pk	19.9	.1	-80	-21.49	36.92	-58.41	16.92	-38.41	0-360

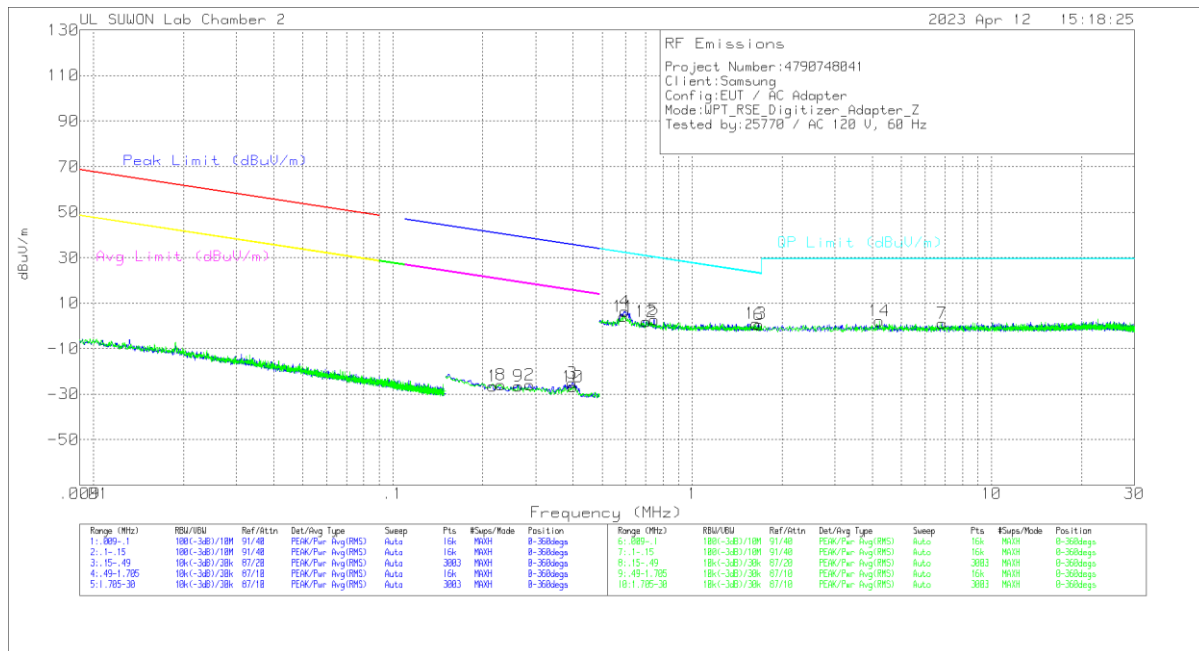
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	HFH2-Z2_Loop Antenna	Cable Loss	Dist Corr 30m	Corrected Reading dBuV/m	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
11	.56976	26.83	Pk	20	.1	-40	6.93	32.49	-25.56	0-360
12	.79643	27.28	Pk	20	.2	-40	7.48	29.59	-22.11	0-360
13	1.02527	26.86	Pk	20	.2	-40	7.06	27.41	-20.35	0-360
14	1.25391	25.01	Pk	20	.2	-40	5.21	25.66	-20.45	0-360
15	1.48005	23.2	Pk	20	.2	-40	3.4	24.23	-20.83	0-360
16	1.705	21.38	Pk	20.1	.2	-40	1.68	23	-21.32	0-360

Pk - Peak detector

** Fundamental

Note : Radiated test were investigated with three receiving antenna axes: Face-on, Face-off and horizontal (parallel to the ground plane) and the worse orientations of Face-on and Face-off were set for final test.

RADIATED EMISSIONS 9 KHz to 30 MHz(Digitizer mode Test case 8)



TEST DATA

Trace Markers

[Face on]

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	HFH2-Z2_Loop Antenna	Cable Loss	Dist Corr 300m	Corrected Reading dBuV/m	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.21554	33.64	Pk	19.9	.1	-80	-26.36	40.95	-67.31	20.95	-47.31	0-360
2	.28633	34.2	Pk	19.9	.1	-80	-25.8	38.48	-64.28	18.48	-44.28	0-360
3	.39832	34.92	Pk	19.9	.1	-80	-25.08	35.6	-60.68	15.6	-40.68	0-360

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	HFH2-Z2_Loop Antenna	Cable Loss	Dist Corr 30m	Corrected Reading dBuV/m	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
**4	.59579	26.19	Pk	20	.1	-40	6.29	32.11	-25.82	0-360
5	.74601	22.65	Pk	20	.2	-40	2.85	30.16	-27.31	0-360
6	1.66982	20.33	Pk	20.1	.2	-40	.63	23.18	-22.55	0-360
7	6.84163	20.45	Pk	20.2	.4	-40	1.05	29.5	-28.45	0-360

[Face off]

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	HFH2-Z2_Loop Antenna	Cable Loss	Dist Corr 300m	Corrected Reading dBuV/m	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
8	.22916	34.1	Pk	19.9	.1	-80	-25.9	40.41	-66.31	20.41	-46.31	0-360
9	.26249	33.66	Pk	19.9	.1	-80	-26.34	39.23	-65.57	19.23	-45.57	0-360
10	.39973	33.35	Pk	19.9	.1	-80	-26.65	35.57	-62.22	15.57	-42.22	0-360

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	HFH2-Z2_Loop Antenna	Cable Loss	Dist Corr 30m	Corrected Reading dBuV/m	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
**11	.59138	24.07	Pk	20	.1	-40	4.17	32.17	-28	0-360
12	.7031	21.78	Pk	20	.1	-40	1.88	30.67	-28.79	0-360
13	1.63148	20.67	Pk	20.1	.2	-40	.97	23.38	-22.41	0-360
14	4.22148	21.68	Pk	20.2	.3	-40	2.18	29.5	-27.32	0-360

Pk - Peak detector

**Fundamental

Note 1: Radiated test were investigated with three receiving antenna axes: Face-on, Face-off and horizontal (parallel to the loop plane) and the worse orientations of Face-on and Face-off were set for final test.

7.1. AC MAINS LINE CONDUCTED EMISSIONS

TEST PROCEDURE

ANSI C63.10: 2013

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.

LIMIT

FCC §15.207 (a)

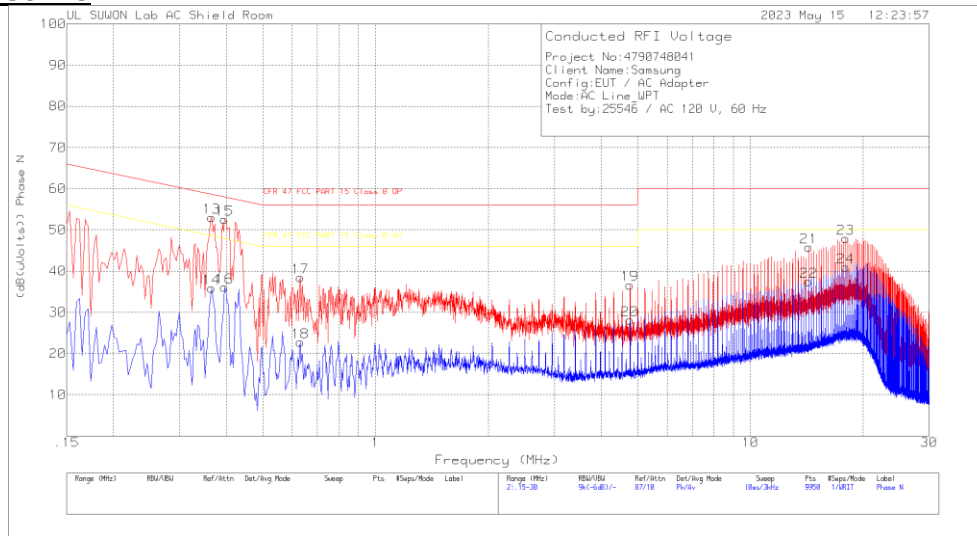
Frequency range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50
*Decreases with the logarithm of the frequency.		

RESULTS

The EUT belongs to Test Case 4 and 8.

Line-L2 .15 - 30MHz

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.366	43.04	Pk	9.8	.2	53.04	58.59	-5.55	-	-
14	.366	25.87	Av	9.8	.2	35.87	-	-	48.59	-12.72
15	.396	42.52	Pk	9.8	.2	52.52	57.94	-5.42	-	-
16	.396	26.1	Av	9.8	.2	36.1	-	-	47.94	-11.84
17	.63	28.45	Pk	9.8	.2	38.45	56	-17.55	-	-
18	.63	12.77	Av	9.8	.2	22.77	-	-	46	-23.23
19	4.776	26.66	Pk	9.7	.3	36.66	56	-19.34	-	-
20	4.776	18.09	Av	9.7	.3	28.09	-	-	46	-17.91
21	14.328	35.43	Pk	10	.4	45.83	60	-14.17	-	-
22	14.328	27.05	Av	10	.4	37.45	-	-	50	-12.55
23	17.967	37.31	Pk	10.2	.4	47.91	60	-12.09	-	-
24	17.967	30.32	Av	10.2	.4	40.92	-	-	50	-9.08

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

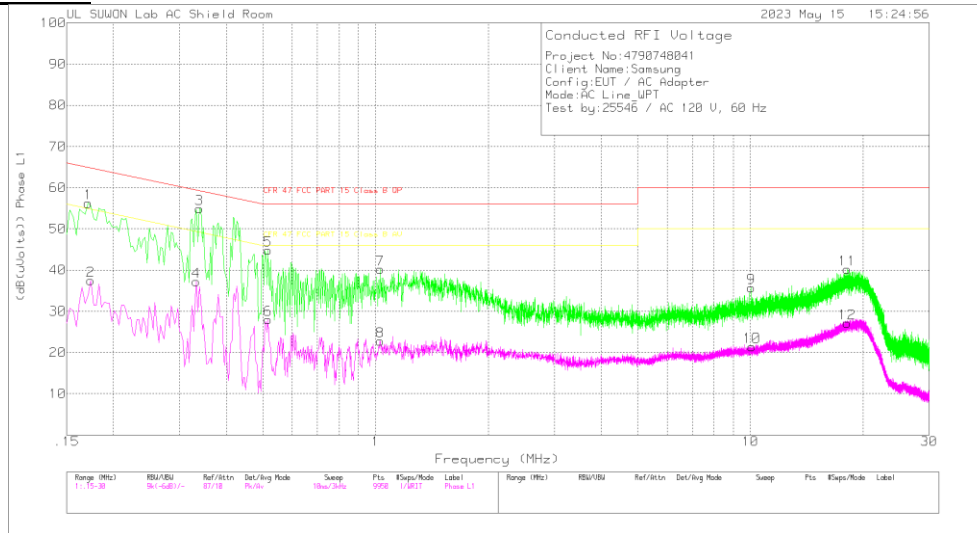
Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.36675	41.15	Qp	9.8	.2	51.15	58.57	-7.42	-	-
.39675	40.18	Qp	9.8	.2	50.18	57.92	-7.74	-	-
17.9663	30.72	Qp	10.2	.4	41.32	60	-18.68	-	-

Qp - Quasi-Peak detector

WORST EMISSIONS (Digitizer mode Test case 8)

Line-L1 .15 - 30MHz

LINE 1 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.171	46.03	Pk	10	.2	56.23	64.91	-8.68	-	-
2	.174	27.27	Av	10	.2	37.47	-	-	54.77	-17.3
3	.339	44.95	Pk	9.8	.2	54.95	59.23	-4.28	-	-
4	.333	27.27	Av	9.8	.2	37.27	-	-	49.38	-12.11
5	.516	34.68	Pk	9.9	.2	44.78	56	-11.22	-	-
6	.516	17.89	Av	9.9	.2	27.99	-	-	46	-18.01
7	1.029	30.25	Pk	9.7	.3	40.25	56	-15.75	-	-
8	1.029	12.78	Av	9.7	.3	22.78	-	-	46	-23.22
9	10.062	25.43	Pk	9.9	.4	35.73	60	-24.27	-	-
10	10.092	11.15	Av	9.9	.4	21.45	-	-	50	-28.55
11	18.105	29.72	Pk	10.1	.4	40.22	60	-19.78	-	-
12	18.102	16.64	Av	10.1	.4	27.14	-	-	50	-22.86

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

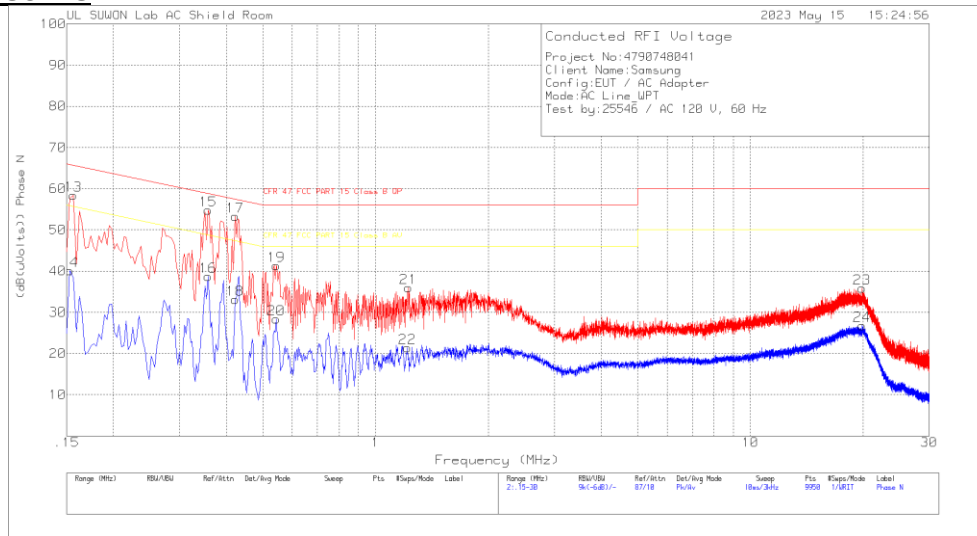
Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_L1[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.17025	39.37	Qp	10	.2	49.57	64.95	-15.38	-	-
.17325	36.4	Qp	10	.2	46.6	64.8	-18.2	-	-
.33825	32.61	Qp	9.8	.2	42.61	59.25	-16.64	-	-
.33375	34.58	Qp	9.8	.2	44.58	59.36	-14.78	-	-

Qp - Quasi-Peak detector

Line-L2 .15 - 30MHz

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.156	48.54	Pk	9.8	.1	58.44	65.67	-7.23	-	-
14	.153	30.18	Av	9.8	.1	40.08	-	-	55.84	-15.76
15	.357	44.84	Pk	9.8	.2	54.84	58.8	-3.96	-	-
16	.357	28.74	Av	9.8	.2	38.74	-	-	48.8	-10.06
17	.423	43.25	Pk	9.8	.2	53.25	57.39	-4.14	-	-
18	.423	23.06	Av	9.8	.2	33.06	-	-	47.39	-14.33
19	.543	31.23	Pk	9.9	.2	41.33	56	-14.67	-	-
20	.543	18.29	Av	9.9	.2	28.39	-	-	46	-17.61
21	1.224	26	Pk	9.7	.3	36	56	-20	-	-
22	1.218	11.43	Av	9.7	.3	21.43	-	-	46	-24.57
23	19.848	25.22	Pk	10.2	.4	35.82	60	-24.18	-	-
24	19.848	16.21	Av	10.2	.4	26.81	-	-	50	-23.19

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N[dB]	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
.15675	38.65	Qp	9.8	.1	48.55	65.63	-17.08	-	-
.15375	38.27	Qp	9.8	.1	48.17	65.79	-17.62	-	-
.35775	22.09	Qp	9.8	.2	32.09	58.78	-26.69	-	-
.42225	37.33	Qp	9.8	.2	47.33	57.4	-10.07	-	-

Qp - Quasi-Peak detector

END OF TEST REPORT