

CERTIFICATION TEST REPORT

Report Number. : S-4792147575-E1V2

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

Model : SM-F971U, SM-F971U1

FCC ID : A3LSMF971U

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

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

Date Of Issue:
2026-04-28

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	2026-04-17	Initial issue	Yeonghwan Hong
V2	2026-04-28	Updated to address TCB's question	Yeonghwan Hong

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. TEST MODE AND WORST-CASE ORIENTATION.....	7
5.3. DESCRIPTION OF TEST SETUP.....	8
6. TEST AND MEASUREMENT EQUIPMENT	10
7. APPLICABLE LIMITS AND TEST RESULTS	11
7.1. RADIATED EMISSIONS	11
7.1.1. Above 1 GHz	12
7.1.2. Below 1 GHz.....	15
7.2. AC MAINS LINE CONDUCTED EMISSIONS.....	18
7.2.1 CONDUCTED EMISSIONS	19

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/be, NFC, WPT, UWB and NB NTN

MODEL NUMBER: SM-F971U, SM-F971U1

SERIAL NUMBER: R3GL20D3TNY (RADIATED)

DATE TESTED: 2026-02-24 – 2026-04-17

APPLICABLE STANDARD	
STANDARD	TEST RESULTS
FCC PART 15B	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:



Yeonghwan Hong
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 C63.4-2014

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:

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

$$\begin{aligned} \text{AC Corrected Reading (dBuV)} &= \text{Meter Voltage (dBuV)} + \text{External Cord Loss} \\ &\text{(dB)} + \text{Cableloss (dB)} \\ 44.72 \text{ dBuV} &= 34.72 \text{ dBuV} + 9.9 \text{ dB} + 0.1 \text{ dB} \end{aligned}$$

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	1.84 dB
Radiated Disturbance, 30 MHz to 1 GHz	3.78 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.25 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 Clause 4.3.3 in IEC Guide 115:2023.

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/be, NFC, WPT, UWB and NB NTN. This test report addresses the WWAN Receiver operational mode.

5.2. TEST MODE AND WORST-CASE ORIENTATION

The EUT was tested while operating in licensed band Rx mode.

The EUT operate 30 MHz – 960 MHz in following bands :
GSM 850, WCDMA B5, LTE B5, LTE B12, LTE B13, LTE B14, LTE B26, LTE B29, LTE B71,
NR n5, n12, n14, n26, n29, n71.

Only the worst case emissions are reported. Worst Case is LTE B26.

The fundamental and radiated spurious emission were investigated in three orthogonal orientations X, Y and Z and folded conditions it was determined that below orientation was worst-case orientation for each band.

- Worst Axis Condition

Band	Worst Case		
	X	Y	Z
LTE B26	-	-	Open

5.3. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacture	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37N3FS0G88DK3	N/A
Data Cable	SAMSUNG	N/A	N/A	N/A

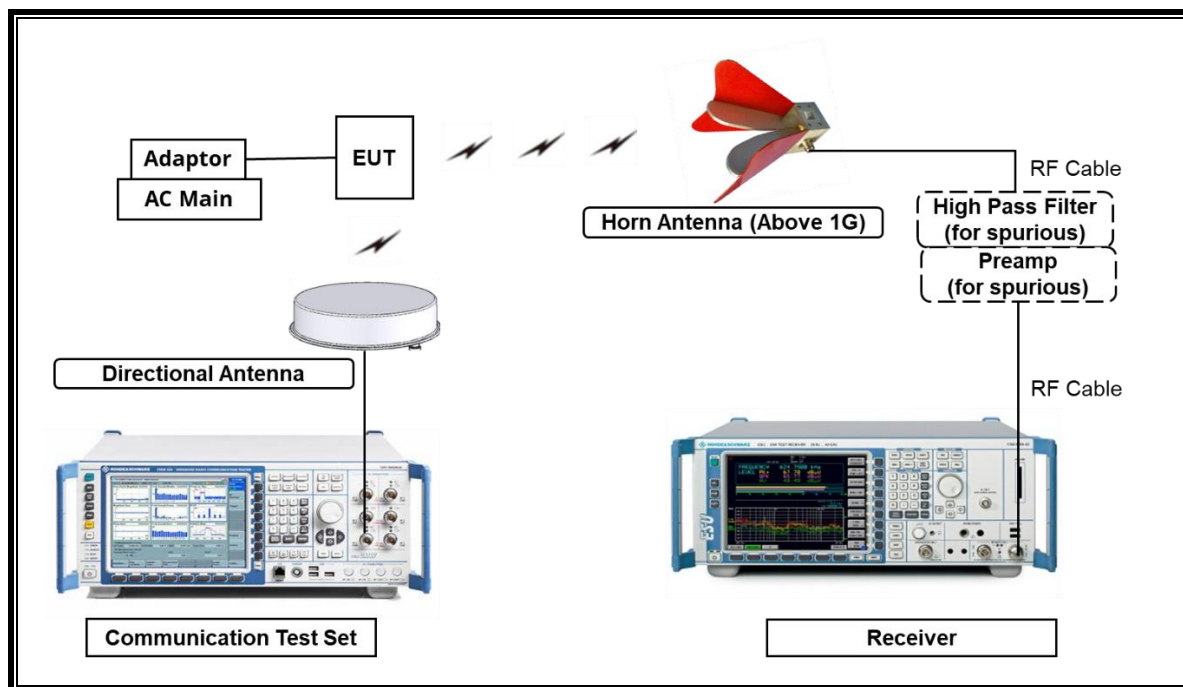
I/O CABLE

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

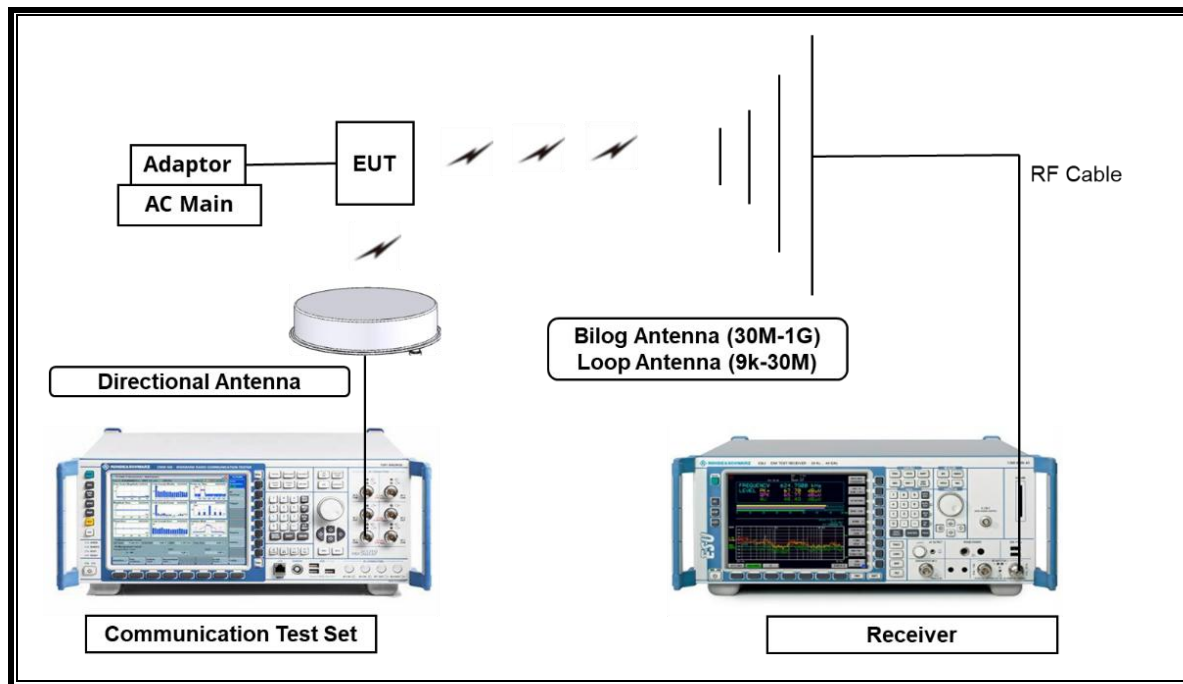
TEST SETUP

The EUT is continuously communicated with the call box during the tests. Also attached with travel adapter for the worst case condition.

SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP) Above 1G



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP) Below 1G



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, Tuned Dipole 400~1000 MHz	ETS	3121D DB-4	00164753	2027-01-08
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	750	2026-07-30
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	845	2026-07-30
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	749	2026-08-12
Antenna, Horn, 18 GHz	ETS	3115	00167211	2026-07-17
Antenna, Horn, 18 GHz	ETS	3115	00161451	2026-07-17
Antenna, Horn, 18 GHz	ETS	3117	00168724	2026-07-17
Antenna, Horn, 18 GHz	ETS	3117	00168717	2026-07-17
Communications Test Set	R&S	CMW500	169797	2026-07-21
Preamplifier, 1000 MHz	Sonoma	310N	341282	2026-07-21
Preamplifier, 1000 MHz	Sonoma	310N	370599	2026-07-21
Preamplifier, 1000 MHz	Sonoma	310N	351741	2026-07-21
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2026-07-21
Preamplifier, 18 GHz	B&Z Technologies, LLC	BZR-01001800-231040-182020	28451	2026-07-21
Preamplifier, 18 GHz	B&Z Technologies, LLC	BZR-01001800-231040-181515	23576	2026-07-22
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2026-07-21
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2026-07-21
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	80108-0004	N/A
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	110367-0003	N/A
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G005	2026-07-23
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	2026-07-23
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	2026-07-23
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	2026-07-23
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	2026-07-23
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	2026-07-23
Attenuator	PASTERNAK	PE7087-10	A009	2026-07-22
Attenuator	PASTERNAK	PE7087-10	A001	2026-07-22
Attenuator	PASTERNAK	PE7087-10	A008	2026-07-22
Attenuator	PASTERNAK	PE7004-10	1	2026-07-22
Attenuator	PASTERNAK	PE7395-10	A011	2026-07-22
EMI Test Receive	R&S	ESW 8	101227	2026-07-17
LISN	R&S	ENV216	101836	2026-07-22
LISN	R&S	ENV216	101837	2026-07-22
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 C63.4-2014

LIMIT

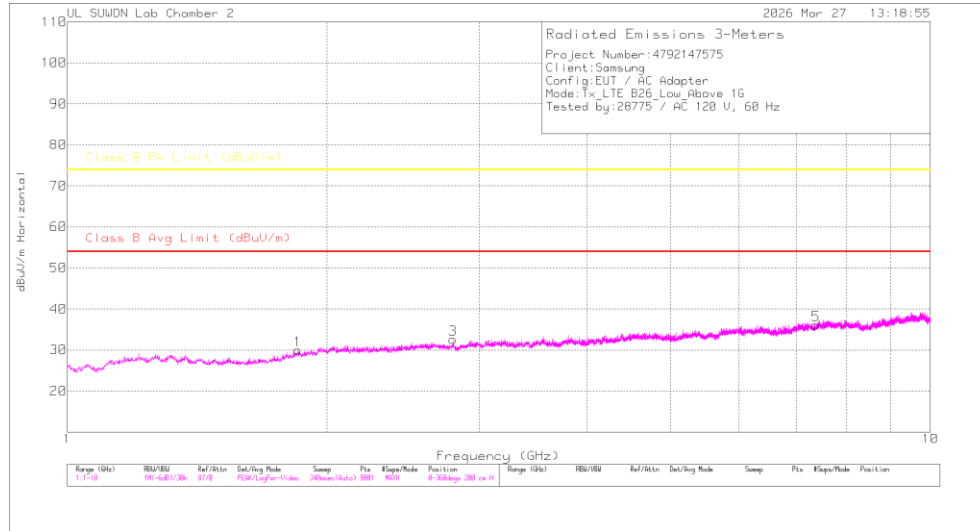
§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dB μ V/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960 MHz	54
Note: The lower limit shall apply at the transition frequency.	

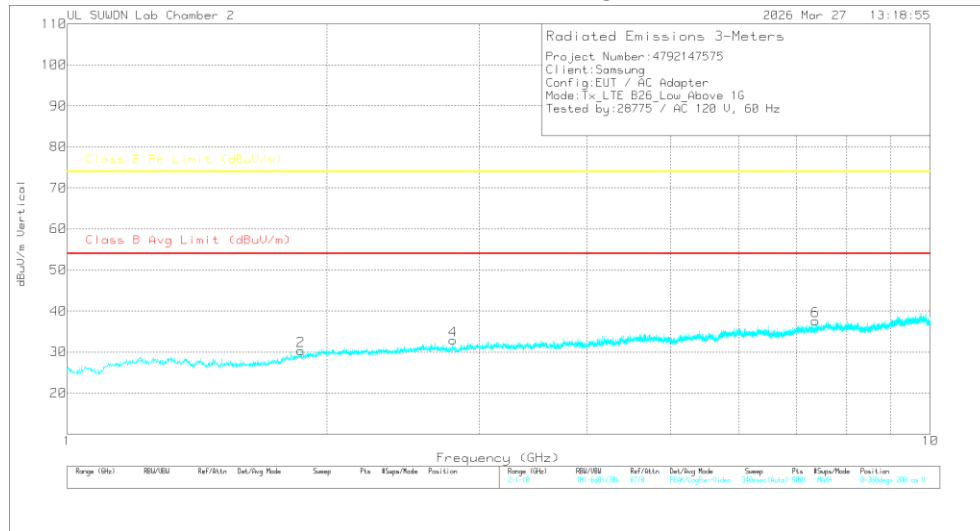
7.1.1. Above 1 GHz

LOW CHANNEL(876.50 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

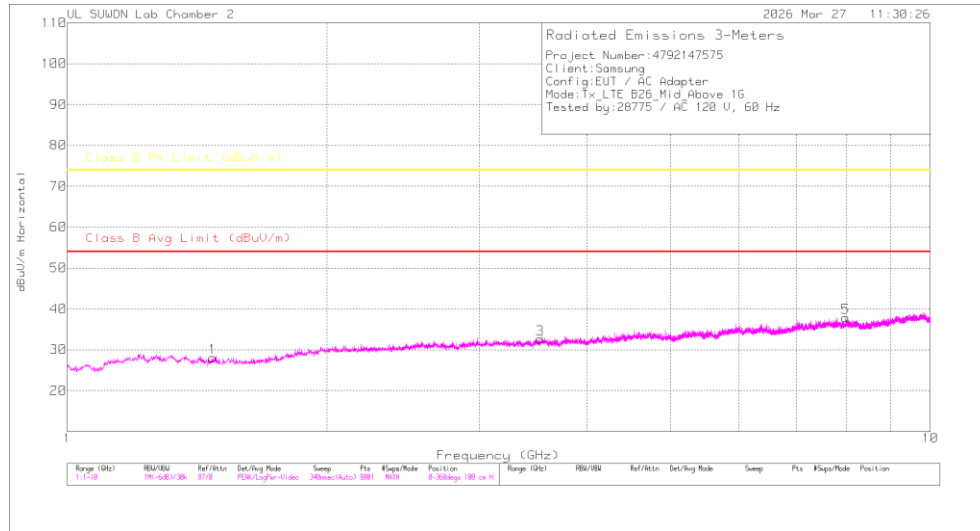
Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Factor (dB/m)	1-18GHz_Path Loss(dB)	1G_HPFF_Path loss(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.85	41.53	Pk	30.4	-35.6	.6	36.93	-	-	74	-37.07	0	100	H
1.85	29.36	Ca	30.4	-35.6	.6	24.76	54	-29.24	-	-	0	100	H
1.865	41.15	Pk	30.5	-35.6	.6	36.65	-	-	74	-37.35	0	100	V
1.865	29.19	Ca	30.5	-35.6	.6	24.69	54	-29.31	-	-	0	100	V
2.801	40.24	Pk	32.1	-34.3	.6	38.64	-	-	74	-35.36	0	100	H
2.801	28.26	Ca	32.1	-34.3	.6	26.66	54	-27.34	-	-	0	100	H
2.798	40.65	Pk	32.1	-34.3	.6	39.05	-	-	74	-34.95	0	100	V
2.798	28.25	Ca	32.1	-34.3	.6	26.65	54	-27.35	-	-	0	100	V
7.373	37.42	Pk	35.7	-28.7	.6	45.02	-	-	74	-28.98	0	100	H
7.373	25.02	Ca	35.7	-28.7	.6	32.62	54	-21.38	-	-	0	100	H
7.365	36.71	Pk	35.7	-28.7	.5	44.21	-	-	74	-29.79	0	100	V
7.365	24.93	Ca	35.7	-28.7	.5	32.43	54	-21.57	-	-	0	100	V

Pk - Peak detector

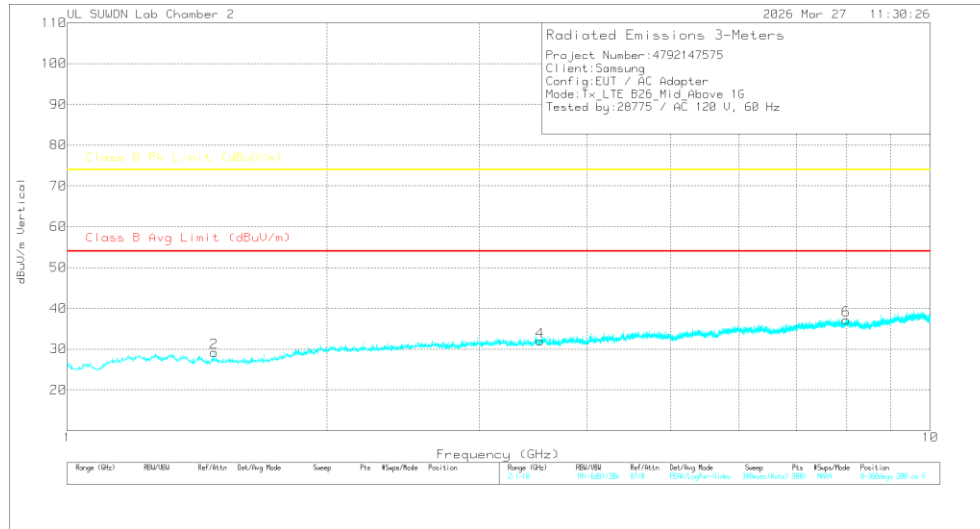
Ca - CISPR average detection

MID CHANNEL(881.50 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

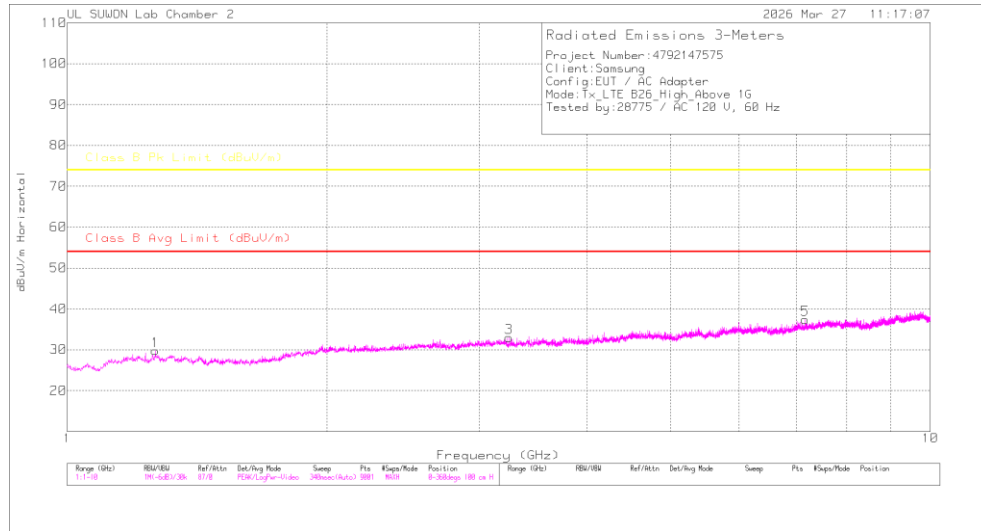
Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Factor (dB/m)	1-18GHz_Path loss(dB)	1G_HPFF_Path loss(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.475	41.66	Pk	28.4	-35.9	.7	34.86	-	-	74	-39.14	0	100	H
1.475	29.6	Ca	28.4	-35.9	.7	22.8	54	-31.2	-	-	0	100	H
1.48	41.82	Pk	28.4	-35.9	.7	35.02	-	-	74	-38.98	0	100	V
1.48	29.85	Ca	28.4	-35.9	.7	23.05	54	-30.95	-	-	0	100	V
3.53	39.55	Pk	32.8	-33.4	.6	39.55	-	-	74	-34.45	0	100	H
3.53	27.28	Ca	32.8	-33.4	.6	27.28	54	-26.72	-	-	0	100	H
3.533	39.24	Pk	32.8	-33.4	.6	39.24	-	-	74	-34.76	0	100	V
3.533	27.26	Ca	32.8	-33.4	.6	27.26	54	-26.74	-	-	0	100	V
7.984	36.51	Pk	35.8	-27.9	.6	45.01	-	-	74	-28.99	0	100	H
7.984	24.15	Ca	35.8	-27.9	.6	32.65	54	-21.35	-	-	0	100	H
7.995	36.1	Pk	35.8	-27.8	.6	44.7	-	-	74	-29.3	0	100	V
7.995	24.15	Ca	35.8	-27.8	.6	32.75	54	-21.25	-	-	0	100	V

Pk - Peak detector

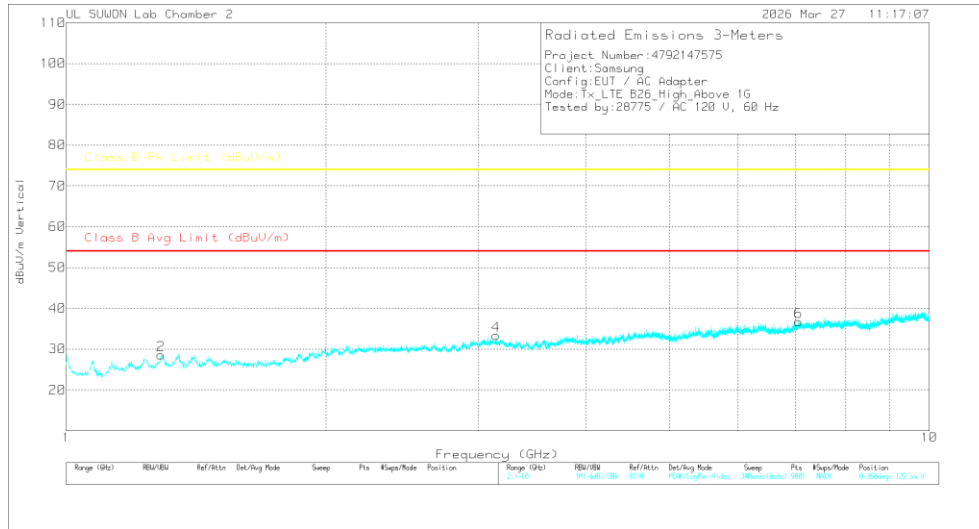
Ca - CISPR average detection

HIGH CHANNEL(886.50 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

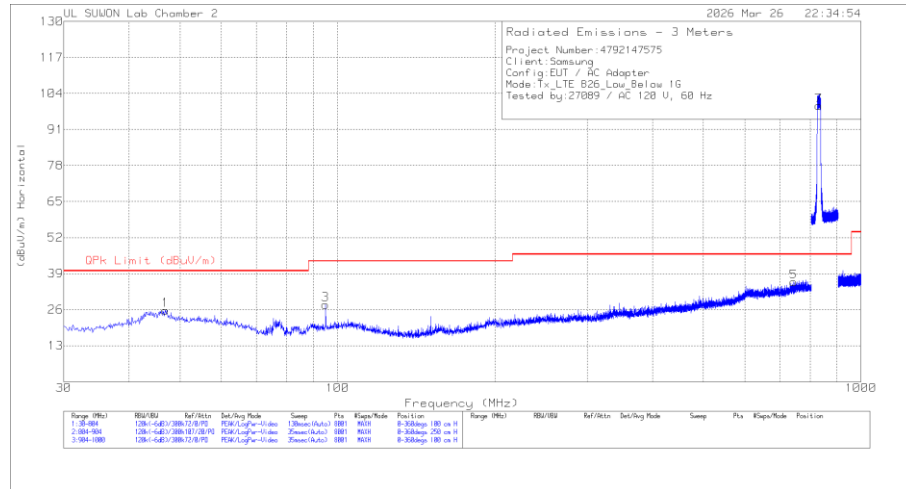
Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Factor (dB/m)	1-18GHz Path Loss (dB)	1G HPF Path Loss (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.265	42.71	Pk	29.6	-36.3	.8	36.81	-	-	74	-37.19	0	100	H
1.265	30.08	Ca	29.6	-36.3	.8	24.18	54	-29.82	-	-	0	100	H
1.287	41.87	Pk	29.7	-36.3	.7	35.97	-	-	74	-38.03	0	100	V
1.287	29.27	Ca	29.7	-36.3	.7	23.37	54	-30.63	-	-	0	100	V
3.249	38.88	Pk	32.8	-33.8	.7	38.58	-	-	74	-35.42	0	100	H
3.249	27.27	Ca	32.8	-33.8	.7	26.97	54	-27.03	-	-	0	100	H
3.149	39.94	Pk	32.7	-33.9	.7	39.44	-	-	74	-34.56	0	100	V
3.149	28.06	Ca	32.7	-33.9	.7	27.56	54	-26.44	-	-	0	100	V
7.163	36.53	Pk	35.7	-29	.5	43.73	-	-	74	-30.27	0	100	H
7.163	25.03	Ca	35.7	-29	.5	32.23	54	-21.77	-	-	0	100	H
7.059	36.81	Pk	35.7	-29.2	.5	43.81	-	-	74	-30.19	0	100	V
7.059	24.88	Ca	35.7	-29.2	.5	31.88	54	-22.12	-	-	0	100	V

Pk - Peak detector
Ca - CISPR average detection

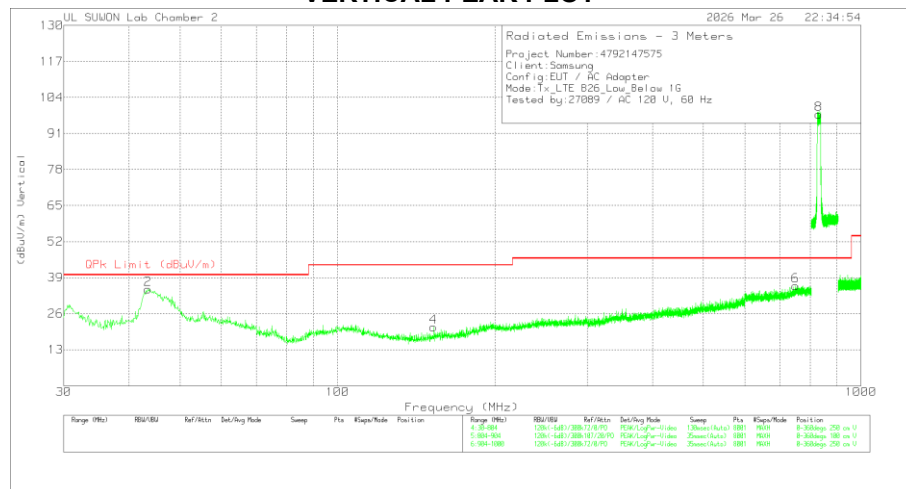
7.1.2. Below 1 GHz

LOW CHANNEL(876.50 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna_Factor (dB/m)	Below_1G_Bypass_Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	46.9313	5.27	Pk	19.7	.8	25.77	40	-14.23	0-360	100	H
3	94.9193	10.19	Pk	16.5	1.1	27.79	43.52	-15.73	0-360	100	H
5	744.3053	6.26	Pk	26.4	3.3	35.96	46.02	-10.06	0-360	100	H
7	831.5	69.12	Pk	26.9	3.5	99.52	46.02	53.5	0-360	250	H
2	43.4483	14.57	Pk	19.4	.9	34.87	40	-5.13	0-360	250	V
4	152.4855	5.93	Pk	13.9	1.4	21.23	43.52	-22.29	0-360	250	V
6	750.594	6.19	Pk	26.6	3.3	36.09	46.02	-9.93	0-360	250	V
8	831.5	67.51	Pk	26.9	3.5	97.91	46.02	51.89	0-360	100	V

Pk - Peak detector

Radiated Emissions

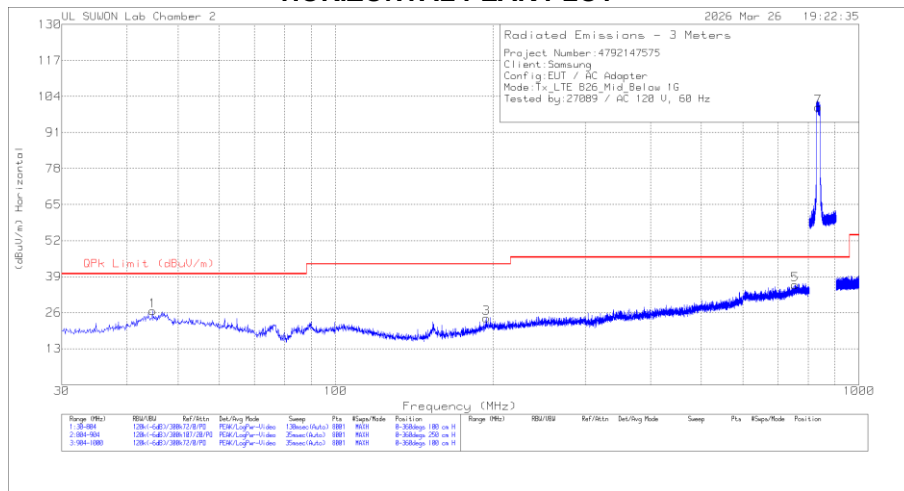
Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna_Factor (dB/m)	Below_1G_Bypass_Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
43.4483	10.61	Qp	19.4	.9	30.91	40	-9.09	273	100	V

Qp - Quasi-Peak detector

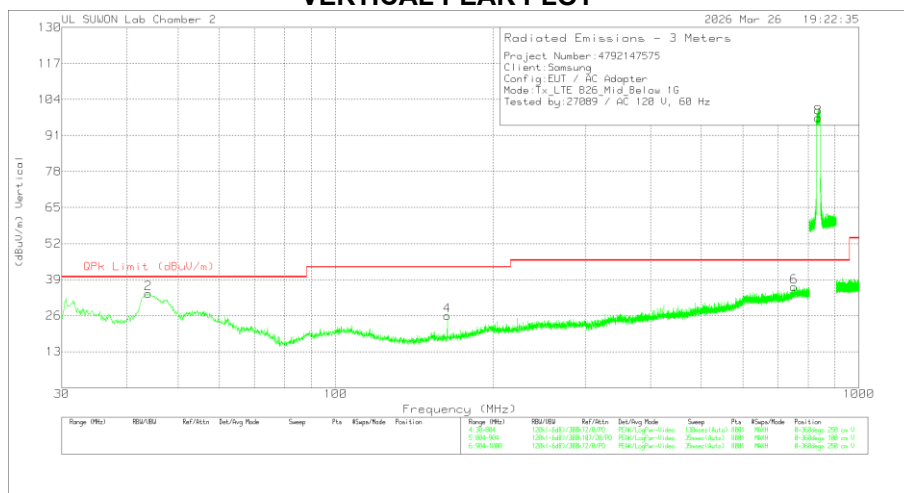
Note: Unwanted emissions captured from 831.5 MHz to 841.5 MHz and from 876.5 MHz to 886.5 MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.50 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Factor (dB/m)	Below_1G_Bypass_Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	44.706	6.2	Pk	19.5	.9	26.6	40	-13.4	0-360	100	H
3	193.9913	5.34	Pk	17	1.7	24.04	43.52	-19.48	0-360	100	H
5	754.851	5.98	Pk	26.7	3.3	35.98	46.02	-10.04	0-360	100	H
7	836.5	69.66	Pk	26.9	3.5	100.06	46.02	54.04	0-360	250	H
2	43.932	13.63	Pk	19.4	1	34.03	40	-5.97	0-360	250	V
4	163.515	10.05	Pk	14.4	1.5	25.95	43.52	-17.57	0-360	250	V
6	751.368	6.4	Pk	26.7	3.3	36.4	46.02	-9.62	0-360	250	V
8	836.5	66.95	Pk	26.9	3.5	97.35	46.02	51.33	0-360	100	V

Pk - Peak detector

Radiated Emissions

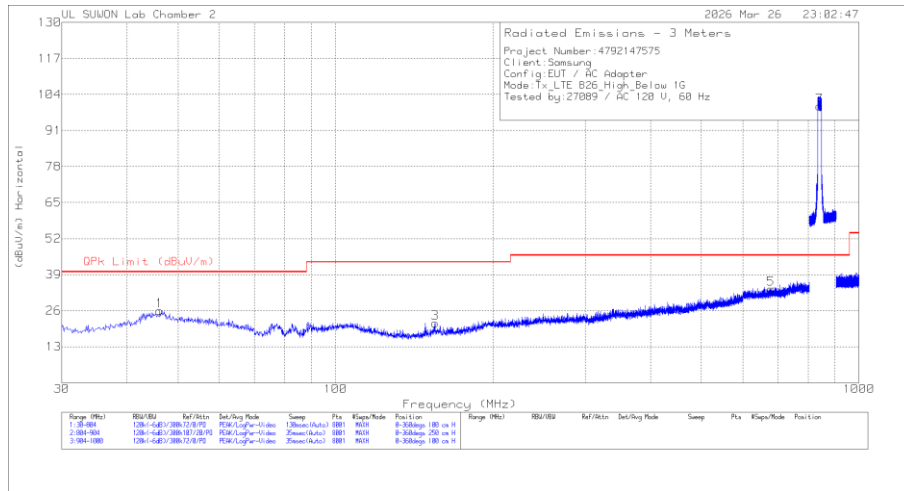
Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Factor (dB/m)	Below_1G_Bypass_Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
43.932	10.97	Qp	19.4	1	31.37	40	-8.63	268	100	V

Qp - Quasi-Peak detector

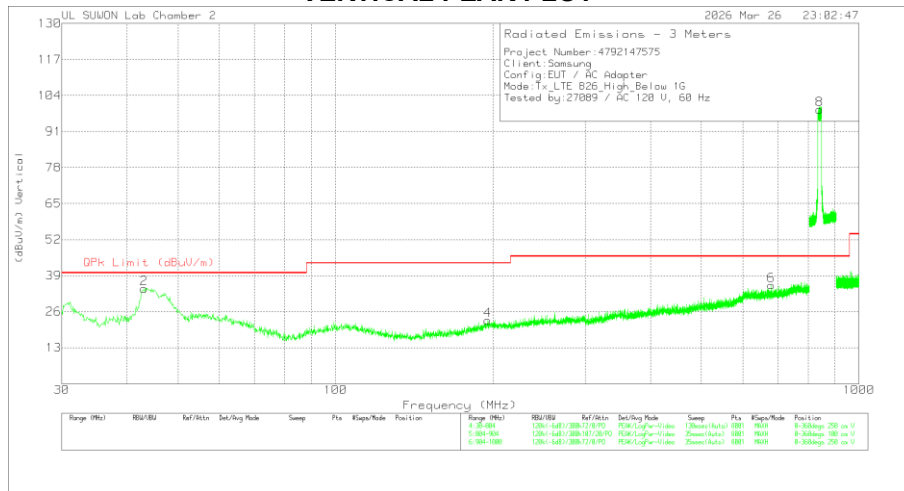
Note: Unwanted emissions captured from 831.5 MHz to 841.5 MHz and from 876.5 MHz to 886.5 MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(886.50 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna_Factor (dB/m)	Below_1G_Bypass_Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	46.1573	5.62	Pk	19.7	.7	26.02	40	-13.98	0-360	100	H
3	155.001	6.08	Pk	14	1.5	21.58	43.52	-21.94	0-360	100	H
5	678.5153	5.25	Pk	25.3	3.2	33.75	46.02	-12.27	0-360	100	H
7	841.5125	69.24	Pk	27	3.5	99.74	46.02	53.72	0-360	250	H
2	43.0613	14.29	Pk	19.3	.8	34.39	40	-5.61	0-360	250	V
4	195.5393	3.81	Pk	17.3	1.7	22.81	43.52	-20.71	0-360	250	V
6	679.773	7.1	Pk	25.3	3.2	35.6	46.02	-10.42	0-360	250	V
8	841.5125	68.4	PK	27	3.5	98.9	46.02	52.88	0-360	100	V

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna_Factor (dB/m)	Below_1G_Bypass_Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
43.0613	10.39	Qp	19.3	.8	30.49	40	-9.51	264	100	V

Qp - Quasi-Peak detector

Note: Unwanted emissions captured from 831.5 MHz to 841.5 MHz and from 876.5 MHz to 886.5 MHz were the TX and RX signals generated from the call-simulator.

7.2. AC MAINS LINE CONDUCTED EMISSIONS

TEST PROCEDURE

ANSI C63.4-2014

LIMIT

§15.107 (a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

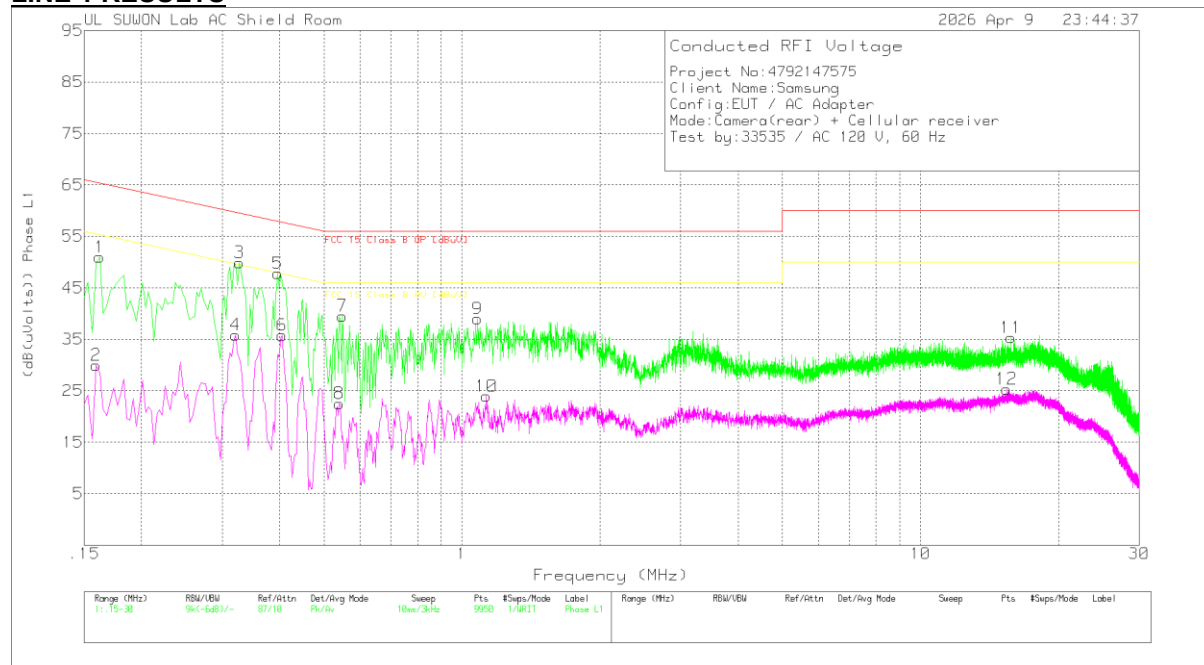
Frequency range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Notes: 1. The lower limit shall apply at the transition frequencies 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

7.2.1 CONDUCTED EMISSIONS

WORST EMISSIONS(GSM 850 + Rear camera on)

Line-L1 .15 – 30 MHz

LINE 1 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_L1 [dB]	Cable Loss [dB]	Corrected Reading (dB(uVolts))	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
1	.162	40.96	Pk	9.9	.1	50.96	65.36	-14.4	-	-
2	.159	20.05	Av	9.8	.1	29.95	-	-	55.52	-25.57
3	.327	40.11	Pk	9.7	.1	49.91	59.53	-9.62	-	-
4	.321	26.02	Av	9.7	.1	35.82	-	-	49.68	-13.86
5	.396	37.88	Pk	9.8	.1	47.78	57.94	-10.16	-	-
6	.405	25.87	Av	9.8	.1	35.77	-	-	47.75	-11.98
7	.549	29.5	Pk	9.9	.1	39.5	56	-16.5	-	-
8	.54	12.52	Av	9.9	.1	22.52	-	-	46	-23.48
9	1.08	29.17	Pk	9.7	.1	38.97	56	-17.03	-	-
10	1.131	14.15	Av	9.7	.1	23.95	-	-	46	-22.05
11	15.759	25.02	Pk	10	.3	35.32	60	-24.68	-	-
12	15.411	15.01	Av	10	.3	25.31	-	-	50	-24.69

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

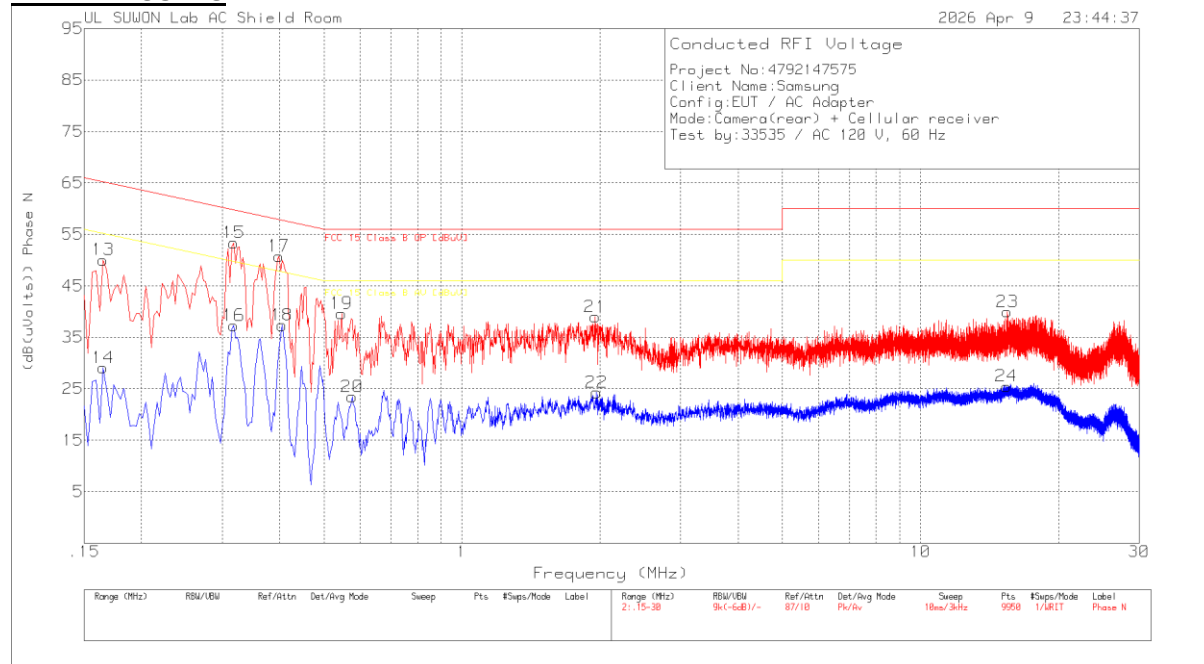
Range 1: Phase L1 .15 - 30MHz									
Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_L1 [dB]	Cable Loss [dB]	Corrected Reading (dB(uVolts))	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
32625	37.08	Qp	9.7	1	46.88	59.55	-12.67	-	-

Qp - Quasi-Peak detector

WORST EMISSIONS(GSM 850 + Rear camera on)

Line-L2 .15 – 30 MHz

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_N [dB]	Cable Loss [dB]	Corrected Reading (dB(uVolts))	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
13	.165	40.05	Pk	9.9	.1	50.05	65.21	-15.16	-	-
14	.165	19.06	Av	9.9	.1	29.06	-	-	55.21	-26.15
15	.318	43.56	Pk	9.7	.1	53.36	59.76	-6.4	-	-
16	.318	27.49	Av	9.7	.1	37.29	-	-	49.76	-12.47
17	.399	40.87	Pk	9.8	.1	50.77	57.87	-7.1	-	-
18	.405	27.45	Av	9.8	.1	37.35	-	-	47.75	-10.4
19	.546	29.62	Pk	9.9	.1	39.62	56	-16.38	-	-
20	.576	13.54	Av	9.8	.1	23.44	-	-	46	-22.56
21	1.953	29.19	Pk	9.7	.1	38.99	56	-17.01	-	-
22	1.965	14.48	Av	9.7	.1	24.28	-	-	46	-21.72
23	15.474	29.57	Pk	10.1	.3	39.97	60	-20.03	-	-
24	15.393	15.07	Av	10.1	.3	25.47	-	-	50	-24.53

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz									
Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_N [dB]	Cable Loss [dB]	Corrected Reading (dB(uVolts))	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
.31815	39.67	Qp	9.7	.1	49.47	59.75	-10.28	-	-
.39975	37.68	Qp	9.8	.1	47.58	57.86	-10.28	-	-

Qp - Quasi-Peak detector

END OF TEST REPORT