

CERTIFICATION TEST REPORT

Report Number. : S-4792147635 -E4V1

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

Model : SC-57G, SCG41

FCC ID : A3LSMF971JPN

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

Test Standard(s) : FCC 47 CFR PART 22 SUBPART H
FCC 47 CFR PART 24 SUBPART E
FCC 47 CFR PART 27 SUBPART F,H,L,M

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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

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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 and UWB

MODEL NUMBER: SC-57G, SCG41

SERIAL NUMBER: R3GL3080E5A, R3GL3080EFJ, R3GL3080D8L, R3GL3080D2A
(RADIATED, spot-check)

DATE TESTED: 2026-03-31 – 2026-05-18

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 22H, 24E, 27F,H,L,M	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:

Tested By:



Seokhwan Hong
Suwon Lab Engineer
UL KOREA LTD.

Yeonghwan Hong
Suwon Lab Engineer
UL KOREA LTD.

1.1. INTRODUCTION OF TEST DATA REUSE

This report references test data from original model: SM-F971U (FCC 47 CFR Part 22/24/27).

This data reuse has been conducted in accordance with KDB 484596 D01 Referencing Test Data v03 criteria, and RF performance equivalence between the two models (SM-F971U/U1 and SC-57G) has been verified through spot-check measurements.

The applicant takes full responsibility that the test data referenced in this report represent compliance for this FCC.

1.2. DIFFERENCE

Key differences between SM-F971U and SC-57G:

1. RF/Cellular Circuit Modifications:

The cellular band functionality has been modified through a combination of firmware changes, component addition, depopulation and pin to pin changes. The hardware changes consist solely of components addition on the main board, with no changes to the circuit board layout.

For detailed change information, please refer to the "FCC Data Reuse Inquiry" document.

2. Common Elements:

- The SC-57G BT/WIFI block diagram and antenna structure remain identical to the SM-F971U.
- All other aspects including form factors, materials, functions, PCB layouts, and common components are the same between both models.

1.3. DEVIATION CRITERIA

1. RF spot-check justification based on worst-case configuration per KDB 484596 D01 Referencing Test Data v03 Section 3.2
- Spot-check measurements shall be made in correspondence to the worst-case scenario reported in the reference device filing, i.e., for those conditions that are the closest to non-compliance.

- For EMC compliance test data (e.g., spurious emissions limits), the deviation between the variant and the parent model, for both field and power quantities, is expressed as:

$$d_{dB} = |V_{dB} - R_{dB}|$$

where V_{dB} is the variant spot-check level in dB, and R_{dB} is the corresponding reference measurement level in dB for the parent model. The spot-check will be deemed acceptable when:

$$d_{dB} \leq d_{dBmax}$$

where d_{dBmax} is the maximum deviation d_{dB} allowed for the EMC data for the spot-check to be considered acceptable. The definition of d_{dBmax} is based on "how far" the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the test under consideration. More specifically, if M_{dB} is the margin in dB from the compliance limit, expressed as

$$M_{dB} = |C_{dB} - R_{dB}|$$

then d_{dBmax} is defined as a function of M_{dB} , which increases linearly from 3 dB to 6 dB, according to:

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB}, & \text{for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB}, & \text{for } M_{dB} > 60 \text{ dB} \end{cases}$$

2. The conducted powers of the variant model will be spot checked to be within the tune-up tolerance.

Where relevant, the following sample calculation is provided:

$$\text{CRITERIA} = 3 + (\text{Test limit} - \text{Measured original value})/20$$

1.4. SPOT-CHECK VERIFICATION DATA (Worst case of the radiated fundamental power and spurious emissions)

Band	Test Item	Worst Mode	Frequency	Test Limit	Reference model	Variant model	Deviation	Criteria Value	Remark
					SM-F971U Results	SM-F971D Results			
GSM 850 (Ant. A)	ERP	GPRS	836.6 MHz	38.50 dBm	27.05 dBm	26.08 dBm	-0.97 dB	3.57 dB	
	RSE	GPRS	2509.8 MHz	-13.00 dBm	-57.20 dBm	-56.10 dBm	1.10 dB	5.21 dB	
GSM 850 (Ant. A+B)	ERP	GPRS	848.8 MHz	38.50 dBm	32.02 dBm	31.09 dBm	-0.93 dB	3.32 dB	
	RSE	GPRS	2546.4 MHz	-13.00 dBm	-50.80 dBm	-53.23 dBm	-2.43 dB	4.89 dB	
GSM 1900 (Ant. B)	EIRP	GPRS	1909.8 MHz	33.00 dBm	31.69 dBm	30.93 dBm	-0.76 dB	3.07 dB	
	RSE	GPRS	3760.0 MHz	-13.00 dBm	-44.60 dBm	-46.56 dBm	-1.96 dB	4.58 dB	
WCDMA Band 5 (Ant. A)	EIRP	REL99	836.6 MHz	38.50 dBm	18.87 dBm	19.96 dBm	1.09 dB	3.98 dB	
	RSE	REL99	1652.8 MHz	-13.00 dBm	-67.20 dBm	-67.35 dBm	-0.15 dB	5.71 dB	
WCDMA Band 5 (Ant. A+B)	EIRP	REL99	836.6 MHz	38.50 dBm	22.92 dBm	22.22 dBm	-0.70 dB	3.78 dB	
	RSE	REL99	1652.8 MHz	-13.00 dBm	-67.70 dBm	-67.02 dBm	0.68 dB	5.74 dB	
LTE Band 12 (Ant. A)	ERP	LTE12_10M_QPSK_RB 1/0	711.0 MHz	34.77 dBm	15.46 dBm	14.30 dBm	-1.16 dB	3.97 dB	
	RSE	LTE12_10M_QPSK_RB 1/49	1422.0 MHz	-13.00 dBm	-59.80 dBm	-58.55 dBm	1.25 dB	5.34 dB	
LTE Band 12 (Ant. A+B)	ERP	LTE12_5M_QPSK_RB 1/0	707.5 MHz	34.77 dBm	19.98 dBm	19.63 dBm	-0.35 dB	3.74 dB	
	RSE	LTE12_5M_QPSK_RB 1/49	2122.5 MHz	-13.00 dBm	-42.00 dBm	-46.38 dBm	-4.38 dB	4.45 dB	
LTE Band 25 (Ant. B)	ERP	LTE25_5M_QPSK_RB 1/24	1912.5 MHz	33.00 dBm	24.99 dBm	24.84 dBm	-0.15 dB	3.40 dB	
	RSE	LTE25_5M_QPSK_RB 1/24	5737.5 MHz	-13.00 dBm	-48.00 dBm	-48.56 dBm	-0.56 dB	4.75 dB	
LTE Band 25 (Ant. F)	ERP	LTE25_5M_QPSK_RB 1/24	1912.5 MHz	33.00 dBm	23.94 dBm	24.73 dBm	0.79 dB	3.45 dB	
	RSE	LTE25_5M_QPSK_RB 1/0	7650.0 MHz	-13.00 dBm	-59.50 dBm	-59.94 dBm	-0.44 dB	5.32 dB	
LTE Band 13 (Ant. A)	ERP	LTE13_5M_QPSK_RB 1/12	779.5 MHz	34.77 dBm	18.02 dBm	17.43 dBm	-0.59 dB	3.84 dB	
	RSE	LTE13_5M_QPSK_RB 1/13	1564.0 MHz	-40.00 dBm	-68.80 dBm	-69.49 dBm	-0.69 dB	4.44 dB	
LTE Band 13 (Ant. A+B)	ERP	LTE13_5M_QPSK_RB 1/12	779.5 MHz	34.77 dBm	21.61 dBm	20.87 dBm	-0.74 dB	3.66 dB	
	RSE	LTE13_5M_QPSK_RB 1/25	1559.0 MHz	-40.00 dBm	-68.60 dBm	-69.16 dBm	-0.56 dB	4.43 dB	
LTE Band 66 (Ant. B)	EIRP	LTE66_10M_QPSK_RB 1/49	1715.0 MHz	30.00 dBm	25.49 dBm	24.60 dBm	-0.89 dB	3.23 dB	
	RSE	LTE66_10M_QPSK_RB 1/49	5325.0 MHz	-13.00 dBm	-61.50 dBm	-58.56 dBm	2.94 dB	5.43 dB	
LTE Band 66 (Ant. F)	EIRP	LTE66_15M_QPSK_RB 1/74	1745.0 MHz	30.00 dBm	27.32 dBm	24.45 dBm	-2.87 dB	3.13 dB	
	RSE	LTE66_15M_QPSK_RB 1/0	5235.0 MHz	-13.00 dBm	-57.50 dBm	-60.27 dBm	-2.77 dB	5.23 dB	
LTE Band 41(PC3) (Ant. B)	EIRP	LTE41_20M_QPSK_RB 1/0	2593.0 MHz	33.00 dBm	25.61 dBm	25.69 dBm	0.08 dB	3.37 dB	
	RSE	LTE41_20M_QPSK_RB 1/0	7779.0 MHz	-25.00 dBm	-38.90 dBm	-42.10 dBm	-3.20 dB	3.70 dB	
LTE Band 41(PC3) (Ant. F)	EIRP	LTE41_20M_QPSK_RB 1/49	2593.0 MHz	33.00 dBm	25.69 dBm	24.90 dBm	-0.79 dB	3.37 dB	
	RSE	LTE41_20M_QPSK_RB 1/0	12530.0 MHz	-25.00 dBm	-45.60 dBm	-46.44 dBm	-0.84 dB	4.03 dB	
Band	Test Item	Worst Mode	Frequency	Test Limit	Reference model	Variant model	Deviation	Criteria Value	Remark
					SM-F971U Results	SM-F971D Results			
5G NR Band n66 (Ant. B)	EIRP	NR_n66_45M_QPSK_RB 1/1	1745.0 MHz	30.00 dBm	25.35 dBm	25.30 dBm	-0.05 dB	3.23 dB	
	RSE	NR_n66_45M_QPSK_RB 1/1	3515.0 MHz	-13.00 dBm	-63.30 dBm	-63.14 dBm	0.16 dB	5.52 dB	
5G NR Band n66 (Ant. F)	EIRP	NR_n66_40M_QPSK_RB 1/214	1760.0 MHz	30.00 dBm	27.44 dBm	24.91 dBm	-2.53 dB	3.13 dB	
	RSE	NR_n66_40M_QPSK_RB 1/1	5235.0 MHz	-13.00 dBm	-56.70 dBm	-58.86 dBm	-2.16 dB	5.19 dB	

1.5. REFERENCE DETAIL

Reference application that contains the reused reference data in the individual test reports:

Reference Model name (Parent)	Application Type	Exhibit Type	Reference FCC Test report number	FCC Test Report Number
SM-F971U	Original Grant	Test Report	Original: S-4792147575-E2_FCC Report WWAN Part 22 S-4792147575-E3_FCC Report WWAN Part 24 S-4792147575-E4_FCC Report WWAN Part 27	Original: S-4792147635-E2_FCC Report WWAN Part 22 S-4792147635-E3_FCC Report WWAN Part 27 Spot-check: S-4792147635-E4_FCC Report Licensed Band Spot-check Report

1.6. DATA RE-USE TEST BANDS

Test modes	Data re-use / Full test	Note.
GSM850	Re-use	-
GSM1900	Re-use	-
WCDMA B5	Re-use	-
LTE B5	Full test	-
LTE B12	Re-use	-
LTE B13	Re-use	-
LTE B25	Re-use	-
LTE B41	Re-use	-
LTE B41C	Full test	-
LTE B66	Re-use	-
NR n5	Full test	-
NR n41	Full test	-
NR n66	Re-use	-

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 22.
3. FCC 47 CFR Part 24.
4. FCC 47 CFR Part 27.
5. ANSI TIA-603-E, 2016
6. ANSI C63.26, 2015
7. KDB 971168 D01 Power Meas License Digital Systems v03r01
8. KDB 971168 D02 Misc Rev Approv License Devices v02r02
9. KDB 412172 D01 Determining ERP and EIRP v01r01

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:

ERP = SG reading with EUT worst orientation (dBm) – cable loss(between the SG and substitution antenna) + Substitution Antenna Factor (dBd)

EIRP = SG reading with EUT worst orientation (dBm) – cable loss(between the SG and substitution antenna) + Substitution Antenna Factor (dBi)

For Radiated Spurious Emission (dBm) = SA reading with EUT worst orientation (dBm) + Antenna Factor (dB/m) + Cable Loss (dB) + Conversion Factor(dB)

SA reading with EUT worst orientation (dBm) = Measured amplitude level (dBuV) +107
Conversion Factor = $107 + 20 \log(D) - 104.8 = 107 + 9.54 - 104.8 = 11.74 \text{ dB}$
where D is the measurement distance (in the far field) in m

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, 9 kHz to 30 MHz	2.41 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 and UWB. This test report addresses the WWAN Operational mode.

5.2. WORST-CASE ORIENTATION

The fundamental and radiated spurious emissions were investigated in three orthogonal orientations (X, Y, and Z) and folded conditions. The worst-case spot-check orientation for each band follows the worst-case axis identified from the original model.

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

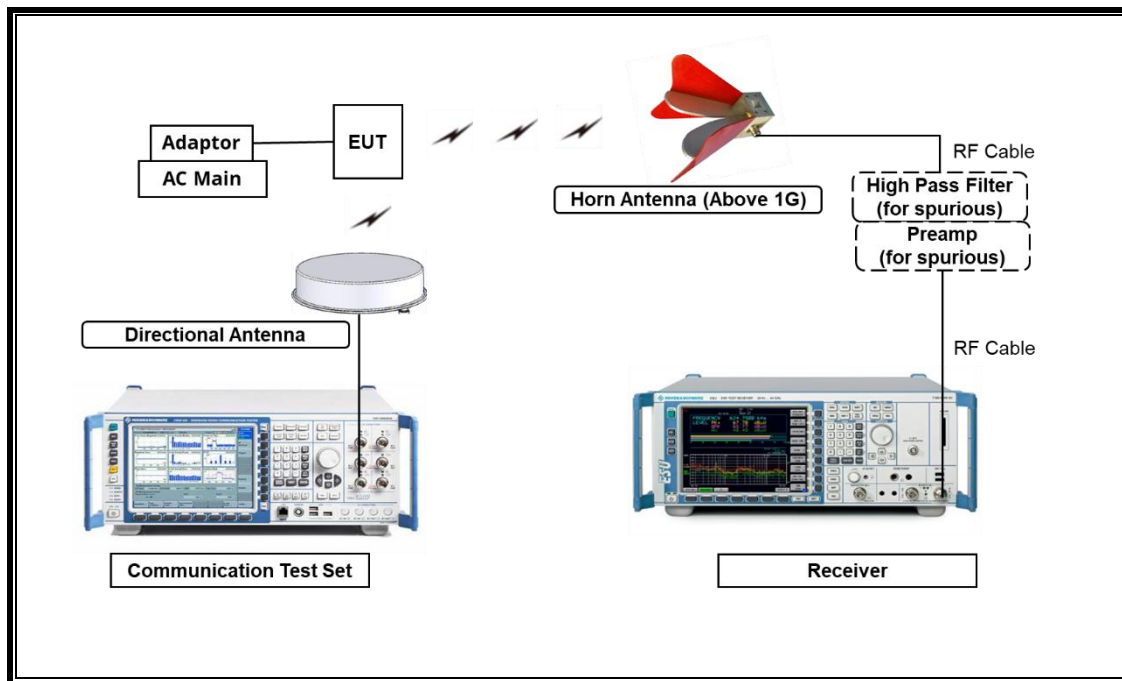
I/O CABLE

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

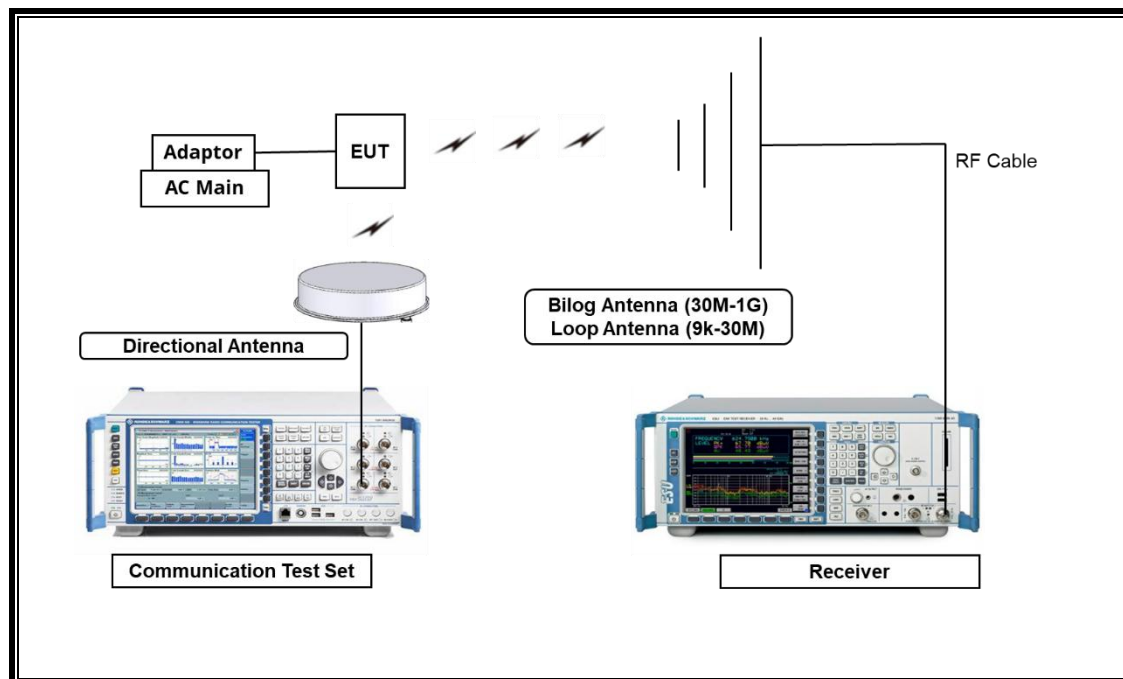
TEST SETUP

The EUT is continuously communicated with the call box during the tests.

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
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	110367-0003	N/A
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	80108-0004	N/A
Antenna, Horn, 40 GHz	ETS	3116C	00166155	2026-07-23
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2027-07-23
Preamplifier	ETS	3116C-PA	00168841	2026-07-28
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
DC Power Supply	KIKUSUI	PWR2001ML	AX001947	2026-07-23
Preamplifier, 18 GHz	Mteq	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
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	2026-07-21
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	2026-12-29
Spectrum Analyzer, 44 GHz	KEYSIGHT	N9030B	MY57143717	2026-07-21
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2026-07-21
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2026-07-21
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	2	2026-07-22
Attenuator	PASTERNAK	PE7395-10	A011	2026-07-22
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2E	100900	2027-07-24
Temperature Chamber	ESPEC	SH-642	93001109	2026-07-21
Power Splitter	MINI-CIRCUITS	WA1534	UL003	2026-12-29
Power Splitter	MINI-CIRCUITS	WA1534	UL004	2027-01-06
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY57510655	2026-12-30
Notch Filter	MICRO-TRONICS	BRC50705-02	G024	2026-07-23
Notch Filter	MICRO-TRONICS	BRM50702-02	G036	2026-07-23
Notch Filter	MICRO-TRONICS	BRM50707-02	G002	2026-07-23
Notch Filter	MICRO-TRONICS	BRM50709-02	G001	2026-07-23
Notch Filter	MICRO-TRONICS	BRM50713-02	G001	2026-07-23
Notch Filter	MICRO-TRONICS	BRM50716-2	006	2026-07-23
UL Software				
Description	Manufacturer	Model	Version	
Antenna port test software	UL	CLT	Ver 3.4	
Radiated software	UL	UL EMC	Ver 9.5	
Antenna port test software (5G NR FR1)	UL	UL iM	Ver 1.06	

7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Results
22.913(a)(5)	Effective Radiated Power	38.5 dBm	Radiated	Complies
27.50(b)(10)		34.77 dBm		
24.232(c) 27.50(h)(2)	Effective Isotropic Radiated Power	33 dBm		Complies
27.50(d)(4)		30 dBm		Complies
22.917(a) 24.238(a) 27.53(c) 27.53(h)	Radiated Spurious Emission	-13 dBm		Complies
27.53(f)		-40 dBm		Complies
27.53(m)		-25 dBm		Complies

7. RADIATED RESULTS

7.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50

LIMITS

§22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

§24.232(c)

Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

§27.50:

(b)(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

(d)(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

(h) The following power limits shall apply in the BRS and EBS:

(2) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

TEST PROCEDURE

ANSI / TIA / EIA 603 E Clause 2.2.17; ESU40 setting reference to 971168 D01 v03r01

For radiated output power measurement with a ESU40:

- a) Set the RBW $\geq 1\%$ to 5% of the OBW;
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span $\geq 2 \times$ to $3 \times$ the OBW.;
- d) Sweep time = auto couple or Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.;
- e) Detector = rms;
- f) Ensure that the number of measurement points $\geq 2 \times \text{span/RBW}$;
- g) Trace mode = average;
- h) If the EUT can be configured to transmit continuously, then set the trigger to free run.
- i) If the EUT cannot be configured to transmit continuously, then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Verify that the sweep time is less than or equal to the transmission burst duration. Time gating can also be used under similar constraints (i.e., configured such that measurement data is collected only during active full-power transmissions).
- j) Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over multiple symbols, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.
- k) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function, with the band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

TEST RESULTS

See the following pages.

7.1.1. ERP & EIRP TEST RESULT

GSM 850 (ANT A)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147635							
Date:		2026-05-06							
Test Engineer:		26087							
Configuration:		EUT / Z-Position, FF							
Location:		Chamber 1							
Mode:		GPRS 850 MHz Fundamentals							
Test Equipment:									
Receiving: VULB9163-750, and Chamber 1 SMA Cables									
Substitution: Dipole 3121_DB4, 8.5m SMA-type Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
Mid Ch									
836.60	29.61	V	3.0	-0.5	26.08	405.94	38.5	-12.4	

GSM 850 (ANT A+B)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147635							
Date:		2026-05-06							
Test Engineer:		26087							
Configuration:		EUT / Z-Position, Open							
Location:		Chamber 1							
Mode:		GPRS 850 MHz Fundamentals							
Test Equipment:									
Receiving: VULB9163-750, and Chamber 1 SMA Cables									
Substitution: Dipole 3121_DB4, 8.5m SMA-type Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
High Ch									
848.80	34.59	V	3.0	-0.5	31.09	1285.51	38.5	-7.4	

GSM 1900 (ANT B)

**UL Verification Services, Inc.
High Frequency Substitution Measurement**

Company: Samsung
Project #: 4792147635
Date: 2026-04-29
Test Engineer: 28183
Configuration: EUT / X-Position, Open
Location: Chamber 4
Mode: GPRS 1900 MHz Fundamentals

Test Equipment:

Receiving: Horn 3117[205959], and Chamber 4 SMA Cables
Substitution: Horn 3115[00167211], 8.5m SMA-type Cable

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
High Ch									
1909.80	26.60	H	4.5	8.9	30.93	1237.39	33.0	-2.1	

WCDMA Band 5 (ANT A)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147635							
Date:		2026-05-06							
Test Engineer:		26087							
Configuration:		EUT / Z-Position, FF							
Location:		Chamber 1							
Mode:		Rel99 Band 5 Fundamentals							
Test Equipment:									
Receiving: VULB9163-750, and Chamber 1 SMA Cables									
Substitution: Dipole 3121_DB4, 8.5m SMA-type Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
Mid Ch									
836.60	23.49	V	3.0	-0.5	19.96	99.19	38.5	-18.5	

WCDMA Band 5 (ANT A+B)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147635							
Date:		2026-05-06							
Test Engineer:		26087							
Configuration:		EUT / Z-Position, Open							
Location:		Chamber 1							
Mode:		Rel99 Band 5 Fundamentals							
Test Equipment:									
Receiving: VULB9163-750, and Chamber 1 SMA Cables									
Substitution: Dipole 3121_DB4, 8.5m SMA-type Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
Mid Ch									
836.60	25.75	V	3.0	-0.5	22.22	166.90	38.5	-16.3	

LTE Band 12 (ANT A)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147635							
Date:		2026-05-06							
Test Engineer:		26087							
Configuration:		EUT / X-Position, FF							
Location:		Chamber 1							
Mode:		LTE_QPSK Band 12 Fundamentals, 10MHz Bandwidth							
Test Equipment:									
Receiving: VULB9163-750, and Chamber 1 SMA Cables									
Substitution: Dipole 3121_DB4, 8.5m SMA-type Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
High Ch									
711.00	18.18	H	2.8	-1.1	14.30	26.89	34.8	-20.5	

LTE Band 12 (ANT A+B)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147635							
Date:		2026-05-06							
Test Engineer:		26087							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 1							
Mode:		LTE_QPSK Band 12 Fundamentals, 5MHz Bandwidth							
Test Equipment:									
Receiving: VULB9163-750, and Chamber 1 SMA Cables									
Substitution: Dipole 3121_DB4, 8.5m SMA-type Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
Mid Ch									
707.50	23.53	H	2.8	-1.1	19.63	91.90	34.8	-15.1	

LTE Band 13 (ANT A)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147635							
Date:		2026-05-06							
Test Engineer:		26087							
Configuration:		EUT / X-Position, FF							
Location:		Chamber 1							
Mode:		LTE_QPSK Band 13 Fundamentals, 5MHz Bandwidth							
Test Equipment:									
Receiving: VULB9163-750, and Chamber 1 SMA Cables									
Substitution: Dipole 3121_DB4, 8.5m SMA-type Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
Low Ch									
779.50	21.10	H	2.9	-0.8	17.43	55.32	34.8	-17.3	

LTE Band 13 (ANT A+B)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147635							
Date:		2026-05-06							
Test Engineer:		26087							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 1							
Mode:		LTE_QPSK Band 13 Fundamentals, 5MHz Bandwidth							
Test Equipment:									
Receiving: VULB9163-750, and Chamber 1 SMA Cables									
Substitution: Dipole 3121_DB4, 8.5m SMA-type Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
Low Ch									
779.50	24.54	H	2.9	-0.8	20.87	122.14	34.8	-13.9	

LTE Band 25 (ANT B)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147635							
Date:		2026-05-15							
Test Engineer:		27089							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 4							
Mode:		LTE_QPSK Band 25 Fundamentals, 5MHz Bandwidth							
Test Equipment:									
Receiving: Horn 3117[205959], and Chamber 4 SMA Cables									
Substitution: Horn 3115[00167211], 8.5m SMA-type Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
High Ch									
1912.50	20.56	H	4.5	8.8	24.84	305.02	33.0	-8.2	

LTE Band 25 (ANT F)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147635							
Date:		2026-05-15							
Test Engineer:		27089							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 4							
Mode:		LTE_QPSK Band 25 Fundamentals, 5MHz Bandwidth							
Test Equipment:									
Receiving: Horn 3117[205959], and Chamber 4 SMA Cables									
Substitution: Horn 3115[00167211], 8.5m SMA-type Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
High Ch									
1912.50	20.45	H	4.5	8.8	24.73	297.39	33.0	-8.3	

LTE Band 41(PC3) (ANT B)

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: Samsung
Project #: 4792147635
Date: 2026-04-29
Test Engineer: 28183
Configuration: EUT / X-Position, Open
Location: Chamber 4
Mode: LTE_QPSK Band 41 Fundamentals, 20MHz Bandwidth

Test Equipment:

Receiving: Horn 3117[205959], and Chamber 4 SMA Cables
Substitution: Horn 3115[00167211], 8.5m SMA-type Cable

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
Mid Ch									
2593.00	21.09	H	5.3	9.9	25.69	370.75	33.0	-7.3	

LTE Band 41(PC3) (ANT F)

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: Samsung
Project #: 4792147635
Date: 2026-04-29
Test Engineer: 28183
Configuration: EUT / X-Position, Half folded
Location: Chamber 4
Mode: LTE_QPSK Band 41 Fundamentals, 20MHz Bandwidth

Test Equipment:

Receiving: Horn 3117[205959], and Chamber 4 SMA Cables
Substitution: Horn 3115[00167211], 8.5m SMA-type Cable

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
Mid Ch									
2593.00	20.30	H	5.3	9.9	24.90	308.87	33.0	-8.1	

LTE Band 66 (ANT B)

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: Samsung
Project #: 4792147635
Date: 2026-04-29
Test Engineer: 28183
Configuration: EUT / X-Position, Open
Location: Chamber 4
Mode: LTE_QPSK Band 66 Fundamentals, 10MHz Bandwidth

Test Equipment:

Receiving: Horn 3117[205959], and Chamber 4 SMA Cables
Substitution: Horn 3115[00167211], 8.5m SMA-type Cable

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
Low Ch									
1715.00	19.41	H	4.3	9.5	24.60	288.31	30.0	-5.4	

LTE Band 66 (ANT F)

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: Samsung
Project #: 4792147635
Date: 2026-04-29
Test Engineer: 28183
Configuration: EUT / X-Position, Open
Location: Chamber 4
Mode: LTE_QPSK Band 66 Fundamentals, 15MHz Bandwidth

Test Equipment:

Receiving: Horn 3117[205959], and Chamber 4 SMA Cables
Substitution: Horn 3115[00167211], 8.5m SMA-type Cable

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
Mid Ch									
1745.00	19.20	H	4.3	9.6	24.45	278.84	30.0	-5.5	

NR Band n66 DFT-s OFDM (ANT B)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147635							
Date:		2026-04-29							
Test Engineer:		28775							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 4							
Mode:		5G NR_QPSK NR n66 Fundamentals, 45MHz Bandwidth							
Test Equipment:									
Receiving: Horn 3117[205959], and Chamber 4 SMA Cables									
Substitution: Horn 3115[00167211], 8.5m SMA-type Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
Mid Ch									
1745.00	20.04	H	4.3	9.6	25.30	338.58	30.0	-4.7	

NR Band n66 DFT-s OFDM (ANT F)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147635							
Date:		2026-04-29							
Test Engineer:		28775							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 4							
Mode:		5G NR_QPSK NR n66 Fundamentals, 40MHz Bandwidth							
Test Equipment:									
Receiving: Horn 3117[205959], and Chamber 4 SMA Cables									
Substitution: Horn 3115[00167211], 8.5m SMA-type Cable									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	Notes
High Ch									
1760.00	19.65	H	4.3	9.6	24.91	309.96	30.0	-5.1	

7.2. RADIATED SPURIOUS EMISSION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53

LIMIT

§22.917(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

§24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

§27.53:

(c)(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB.

(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

(h) The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

(m) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

TEST PROCEDURE

ANSI / TIA / EIA 603 E Clause 2.2.12; ESU40 setting reference to 971168 D01 v03r01

For peak power measurement with a ESU40:

- a) Set the RBW = 100 kHz for emission below 1 GHz and 1 MHz for emissions above 1 GHz.
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points $\geq 2 \times$ span/RBW;
- g) Trace mode = average(WCDMA, LTE, 5G NR), Maxhold(GSM);

NOTE1

For LTE B14 / NR n14 Bands, No emission exhibiting discrete or narrowband characteristics was observed during the evaluation.

RESULTS

See the following pages.

7.2.1. SPURIOUS RADIATION RESULT

GSM850

GPRS ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147635 Date: 2026-04-29 Test Engineer: 27089 Configuration: EUT / Y-Position, FF Location: Chamber 2 Mode: GPRS 850 MHz Harmonics Test Votage: AC 120 V, 60 Hz <table><tr><th>f MHz</th><th>SA reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>AFCL (dB/m)</th><th>Conversion Factor(dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Mid Ch, 836.6MHz</td></tr><tr><td>2509.80</td><td>-66.2</td><td>H</td><td>3.0</td><td>-1.6</td><td>11.74</td><td>-56.1</td><td>-13.0</td><td>-43.1</td><td></td></tr><tr><td colspan="10">NF : Noise Floor</td></tr></table>										f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch, 836.6MHz										2509.80	-66.2	H	3.0	-1.6	11.74	-56.1	-13.0	-43.1		NF : Noise Floor									
	f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																								
	Mid Ch, 836.6MHz																																																	
	2509.80	-66.2	H	3.0	-1.6	11.74	-56.1	-13.0	-43.1																																									
NF : Noise Floor																																																		
GPRS ANT A+B	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147635 Date: 2026-04-30 Test Engineer: 26087 Configuration: EUT / X-Position, Open Location: Chamber 1 Mode: GPRS 850 MHz Harmonics Test Votage: AC 120 V, 60 Hz <table><tr><th>f MHz</th><th>SA reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>AFCL (dB/m)</th><th>Conversion Factor(dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">High Ch, 848.8MHz</td></tr><tr><td>2546.40</td><td>-62.5</td><td>H</td><td>3.0</td><td>-2.4</td><td>11.74</td><td>-53.2</td><td>-13.0</td><td>-40.2</td><td></td></tr><tr><td colspan="10">NF : Noise Floor</td></tr></table>										f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	High Ch, 848.8MHz										2546.40	-62.5	H	3.0	-2.4	11.74	-53.2	-13.0	-40.2		NF : Noise Floor									
	f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																								
	High Ch, 848.8MHz																																																	
	2546.40	-62.5	H	3.0	-2.4	11.74	-53.2	-13.0	-40.2																																									
NF : Noise Floor																																																		

GSM1900

GPRS ANT B	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147635 Date: 2026-04-29 Test Engineer: 27089 Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 2 Mode: GPRS 1900 MHz Harmonics Test Voltage: AC 120 V, 60 Hz <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 10%;">f MHz</th> <th style="width: 10%;">SA reading (dBm)</th> <th style="width: 10%;">Ant. Pol. (H/V)</th> <th style="width: 10%;">Distance (m)</th> <th style="width: 10%;">AFCL (dB/m)</th> <th style="width: 10%;">Conversion Factor(dB)</th> <th style="width: 10%;">EIRP (dBm)</th> <th style="width: 10%;">Limit (dBm)</th> <th style="width: 10%;">Delta (dB)</th> <th style="width: 10%;">Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch, 1880MHz</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3760.00</td> <td style="background-color: #e0f7fa;">-59.3</td> <td style="text-align: center;">H</td> <td style="text-align: center;">3.0</td> <td style="text-align: center;">0.9</td> <td style="text-align: center;">11.74</td> <td style="background-color: #f5f5f5;">-46.6</td> <td style="text-align: center;">-13.0</td> <td style="text-align: center;">-33.6</td> <td></td> </tr> </tbody> </table> NF : Noise Floor	f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch, 1880MHz										3760.00	-59.3	H	3.0	0.9	11.74	-46.6	-13.0	-33.6	
f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																						
Mid Ch, 1880MHz																															
3760.00	-59.3	H	3.0	0.9	11.74	-46.6	-13.0	-33.6																							

WCDMA Band 5

REL99
ANT A

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 4792147635
Date: 2026-04-29
Test Engineer: 27089
Configuration: EUT / AC Adapter, X-Position, FF
Location: Chamber 2
Mode: Rel99 Band 5 Harmonics
Test Votage: AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.4MHz									
1652.80	-72.7	H	3.0	-6.4	11.74	-67.4	-13.0	-54.4	
NF : Noise Floor									

REL99
ANT A+B

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 4792147635
Date: 2026-05-04
Test Engineer: 26087
Configuration: EUT / AC Adapter, Y-Position, Open
Location: Chamber 1
Mode: Rel99 Band 5 Harmonics
Test Votage: AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.4MHz									
1652.80	-71.5	V	3.0	-7.2	11.74	-67.0	-13.0	-54.0	
NF : Noise Floor									

LTE Band 12

QPSK ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147635 Date: 2026-04-29 Test Engineer: 27089 Configuration: EUT / X-Position, FF Location: Chamber 2 Mode: LTE_QPSK Band 12 Harmonics, 10MHz Bandwidth Test Votage: AC 120 V, 60 Hz									
	f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	High Ch, 711MHz									
	1422.00	-64.2	H	3.0	-6.1	11.74	-58.5	-13.0	-45.5	
	NF : Noise Floor									
QPSK ANT A+B	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147635 Date: 2026-05-06 Test Engineer: 26087 Configuration: EUT / AC Adapter, X-Position, HF Location: Chamber 1 Mode: LTE_QPSK Band 12 Harmonics, 5MHz Bandwidth Test Votage: AC 120 V, 60 Hz									
	f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Mid Ch, 707.5MHz									
	2122.50	-54.6	V	3.0	-3.6	11.74	-46.4	-13.0	-33.4	
	NF : Noise Floor									

LTE Band 25

QPSK

ANT B

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Test Votage:

Samsung

4792147635

2026-05-15

28183

EUT / AC Adapter, X-Position, FF

Chamber 2

LTE_QPSK Band 25 Harmonics, 5MHz Bandwidth

AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
High Ch, 1912.5MHz									
5737.50	-65.0	V	3.0	4.7	11.74	-48.6	-13.0	-35.6	NF
NF : Noise Floor									

QPSK

ANT F

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Test Votage:

Samsung

4792147635

2026-05-15

28183

EUT / AC Adapter, X-Position, Open

Chamber 2

LTE_QPSK Band 25 Harmonics, 5MHz Bandwidth

AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
High Ch, 1912.5MHz									
7650.00	-80.2	H	3.0	8.5	11.74	-59.9	-13.0	-46.9	
NF : Noise Floor									

LTE Band 13

QPSK ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147635 Date: 2026-04-29 Test Engineer: 27089 Configuration: EUT / AC Adapter, Y-Position, FF Location: Chamber 2 Mode: LTE_QPSK Band 13 Harmonics, 5MHz Bandwidth Test Votage: AC 120 V, 60 Hz <table><tr><th>f MHz</th><th>SA reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>AFCL (dB/m)</th><th>Conversion Factor(dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Mid Ch, 782MHz</td></tr><tr><td>1564.00</td><td>-74.6</td><td>V</td><td>3.0</td><td>-6.7</td><td>11.74</td><td>-69.5</td><td>-40.0</td><td>-29.5</td><td>NF</td></tr><tr><td colspan="10">NF : Noise Floor</td></tr></table>										f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch, 782MHz										1564.00	-74.6	V	3.0	-6.7	11.74	-69.5	-40.0	-29.5	NF	NF : Noise Floor									
	f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																								
	Mid Ch, 782MHz																																																	
	1564.00	-74.6	V	3.0	-6.7	11.74	-69.5	-40.0	-29.5	NF																																								
NF : Noise Floor																																																		
QPSK ANT A+B	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147635 Date: 2026-05-06 Test Engineer: 26087 Configuration: EUT / AC Adpater, X-Position, Open Location: Chamber 1 Mode: LTE_QPSK Band 13 Harmonics, 5MHz Bandwidth Test Votage: AC 120 V, 60 Hz <table><tr><th>f MHz</th><th>SA reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>AFCL (dB/m)</th><th>Conversion Factor(dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, 779.5MHz</td></tr><tr><td>1559.00</td><td>-73.3</td><td>H</td><td>3.0</td><td>-7.6</td><td>11.74</td><td>-69.2</td><td>-40.0</td><td>-29.2</td><td></td></tr><tr><td colspan="10">NF : Noise Floor</td></tr></table>										f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 779.5MHz										1559.00	-73.3	H	3.0	-7.6	11.74	-69.2	-40.0	-29.2		NF : Noise Floor									
	f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																								
	Low Ch, 779.5MHz																																																	
	1559.00	-73.3	H	3.0	-7.6	11.74	-69.2	-40.0	-29.2																																									
NF : Noise Floor																																																		

LTE Band 41(PC3)

QPSK

ANT B

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Test Votage:

Samsung

4792147635

2026-04-28

27089

EUT / AC Adapter, Y-Position, Open

Chamber 2

LTE_QPSK Band 41 Harmonics, 20MHz Bandwidth

AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Mid Ch, 2593MHz									
7779.00	-62.7	V	3.0	8.9	11.74	-42.1	-25.0	-17.1	NF
NF : Noise Floor									

QPSK

ANT F

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Test Votage:

Samsung

4792147635

2026-04-29

27089

EUT / AC Adapter, Y-Position, HF

Chamber 2

LTE_QPSK Band 41 Harmonics, 20MHz Bandwidth

AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2506MHz									
12530.00	-76.4	H	3.0	18.2	11.74	-46.4	-25.0	-21.4	NF
NF : Noise Floor									

LTE Band 66

QPSK

ANT B

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Test Votage:

Samsung

4792147635

2026-04-29

27089

EUT / X-Position, FF

Chamber 2

LTE_QPSK Band 66 Harmonics, 10MHz Bandwidth

AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
High Ch, 1775MHz									
5325.00	-74.2	V	3.0	3.9	11.74	-58.6	-13.0	-45.6	
NF : Noise Floor									

QPSK

ANT F

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Test Votage:

Samsung

4792147635

2026-04-29

27089

EUT / Y-Position, FF

Chamber 2

LTE_QPSK Band 66 Harmonics, 15MHz Bandwidth

AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Mid Ch, 1745MHz									
5235.00	-75.8	V	3.0	3.8	11.74	-60.3	-13.0	-47.3	
NF : Noise Floor									

NR Band n66 DFT-s OFDM

QPSK
ANT B

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 4792147575
Date: 2026-04-30
Test Engineer: 28775
Configuration: EUT / AC Adapter, X-Position, Open
Location: Chamber 2
Mode: 5G NR_QPSK NR n66 Harmonics, 45MHz Bandwidth
Test Votage: AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
High Ch, 1757.5MHz									
3515.00	-75.1	V	3.0	0.3	11.74	-63.1	-13.0	-50.1	
NF : Noise Floor									

QPSK
ANT F

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 4792147575
Date: 2026-04-30
Test Engineer: 28775
Configuration: EUT / AC Adapter, X-Position, FF
Location: Chamber 2
Mode: 5G NR_QPSK NR n66 Harmonics, 40MHz Bandwidth
Test Votage: AC 120 V, 60 Hz

f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Mid Ch, 1745MHz									
5235.00	-74.4	H	3.0	3.8	11.74	-58.9	-13.0	-45.9	
NF : Noise Floor									

END OF REPORT