

CERTIFICATION TEST REPORT

Report Number. : S-4792147620-E4V3

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

Model : SM-F971B

FCC ID : A3LSMF971B

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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Revision History

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V2	2026-05-18	Updated to address TCB's question	Yeonghwan Hong
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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: SM-F971B

SERIAL NUMBER: R37L200G60R, R37L200G6FK, R37L200GH0M, R37L200G6YY, R37L200G6NE (RADIATED, spot-check)

DATE TESTED: 2026-03-09 – 2026-05-20

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.

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1.1. INTRODUCTION OF TEST DATA REUSE

This report references test data from original model: SM-F971U (FCC 47 CFR Part 22/24/27/90).

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 SM-F971B) 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 SM-F971B:

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 SM-F971B 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-F971B Results			
GSM 850 (Ant. A)	ERP	GPRS	848.8 MHz	38.50 dBm	28.50 dBm	29.30 dBm	0.80 dB	3.50 dB	
	RSE	GPRS	2509.8 MHz	-13.00 dBm	-57.22 dBm	-56.70 dBm	0.52 dB	5.21 dB	
GSM 850 (Ant. D)	ERP	GPRS	848.8 MHz	38.50 dBm	29.19 dBm	28.24 dBm	-0.95 dB	3.47 dB	
	RSE	GPRS	2509.8 MHz	-13.00 dBm	-44.60 dBm	-46.77 dBm	-2.17 dB	4.58 dB	
GSM 850 (Ant. A+B)	ERP	GPRS	848.8 MHz	38.50 dBm	32.02 dBm	31.39 dBm	-0.63 dB	3.32 dB	
	RSE	GPRS	2546.4 MHz	-13.00 dBm	-50.80 dBm	-51.74 dBm	-0.94 dB	4.89 dB	
GSM 1900 (Ant. B)	EIRP	GPRS	1909.8 MHz	33.00 dBm	31.69 dBm	31.46 dBm	-0.23 dB	3.07 dB	
	RSE	GPRS	3760.0 MHz	-13.00 dBm	-44.60 dBm	-46.47 dBm	-1.87 dB	4.58 dB	
WCDMA Band 2 (Ant. F)	EIRP	REL99	1907.6 MHz	33.00 dBm	22.45 dBm	24.98 dBm	2.53 dB	3.53 dB	
	RSE	REL99	7630.4 MHz	-13.00 dBm	-59.40 dBm	-59.77 dBm	-0.37 dB	5.32 dB	
WCDMA Band 4 (Ant. F)	EIRP	REL99	1732.6 MHz	30.00 dBm	26.20 dBm	26.09 dBm	-0.11 dB	3.19 dB	
	RSE	REL99	7010.4 MHz	-13.00 dBm	-60.50 dBm	-60.88 dBm	-0.38 dB	5.38 dB	
WCDMA Band 5 (Ant. A)	EIRP	REL99	846.6 MHz	38.50 dBm	19.37 dBm	20.24 dBm	0.87 dB	3.96 dB	
	RSE	REL99	1652.8 MHz	-13.00 dBm	-67.19 dBm	-68.28 dBm	-1.09 dB	5.71 dB	
WCDMA Band 5 (Ant. D)	EIRP	REL99	846.6 MHz	38.50 dBm	20.38 dBm	19.65 dBm	-0.73 dB	3.91 dB	
	RSE	REL99	1673.2 MHz	-13.00 dBm	-68.50 dBm	-69.46 dBm	-0.96 dB	5.78 dB	
WCDMA Band 5 (Ant. A+B)	EIRP	REL99	836.6 MHz	38.50 dBm	22.92 dBm	22.58 dBm	-0.34 dB	3.78 dB	
	RSE	REL99	1652.8 MHz	-13.00 dBm	-67.70 dBm	-66.90 dBm	0.80 dB	5.74 dB	
LTE B26 (Ant. A)	EIRP	3M_QPSK_RB 1/8	847.5 MHz	38.50 dBm	19.32 dBm	20.82 dBm	1.50 dB	3.96 dB	
	RSE	3M_QPSK_Part90_RB 1/14	1631.0 MHz	-13.00 dBm	-66.18 dBm	-65.67 dBm	0.51 dB	5.66 dB	
LTE B26 (Ant. D)	EIRP	10M_QPSK_RB 1/0	844.0 MHz	38.50 dBm	20.57 dBm	18.99 dBm	-1.58 dB	3.90 dB	
	RSE	10M_QPSK_RB 1/25	2532.0 MHz	-13.00 dBm	-63.30 dBm	-65.12 dBm	-1.82 dB	5.52 dB	
LTE B26 (Ant. A+B)	EIRP	15M_QPSK_RB 1/74	836.5 MHz	38.50 dBm	22.25 dBm	22.75 dBm	0.50 dB	3.81 dB	
	RSE	3M_QPSK_Part90_RB 1/8	1645.0 MHz	-13.00 dBm	-60.90 dBm	-61.66 dBm	-0.76 dB	5.40 dB	
LTE Band 12 (Ant. A)	ERP	10M_QPSK_RB 1/0	707.5 MHz	34.77 dBm	15.46 dBm	17.52 dBm	2.06 dB	3.97 dB	
	RSE	10M_QPSK_RB 1/49	1422.0 MHz	-13.00 dBm	-59.80 dBm	-58.19 dBm	1.61 dB	5.34 dB	
LTE Band 12 (Ant. D)	ERP	10M_QPSK_RB 1/49	707.5 MHz	34.77 dBm	17.25 dBm	14.54 dBm	-2.71 dB	3.88 dB	
	RSE	10M_QPSK_RB 1/25	1422.0 MHz	-13.00 dBm	-65.60 dBm	-68.92 dBm	-3.32 dB	5.63 dB	
LTE Band 12 (Ant. A+B)	ERP	5M_QPSK_RB 1/0	707.5 MHz	34.77 dBm	19.98 dBm	19.67 dBm	-0.31 dB	3.74 dB	
	RSE	5M_QPSK_RB 1/49	2122.5 MHz	-13.00 dBm	-42.00 dBm	-46.32 dBm	-4.32 dB	4.45 dB	
LTE Band 13 (Ant. A)	ERP	5M_QPSK_RB 1/12	779.5 MHz	34.77 dBm	18.02 dBm	19.01 dBm	0.99 dB	3.84 dB	
	RSE	5M_QPSK_RB 1/13	1564.0 MHz	-40.00 dBm	-68.80 dBm	-69.33 dBm	-0.53 dB	4.44 dB	
LTE Band 13 (Ant. D)	ERP	10M_QPSK_RB 1/0	782.0 MHz	34.77 dBm	18.80 dBm	15.94 dBm	-2.86 dB	3.80 dB	
	RSE	10M_QPSK_RB 1/25	1564.0 MHz	-40.00 dBm	-68.90 dBm	-69.70 dBm	-0.80 dB	4.45 dB	
LTE Band 13 (Ant. A+B)	ERP	5M_QPSK_RB 1/12	779.5 MHz	34.77 dBm	21.61 dBm	20.77 dBm	-0.84 dB	3.66 dB	
	RSE	5M_QPSK_RB 1/25	1559.0 MHz	-40.00 dBm	-68.60 dBm	-69.28 dBm	-0.68 dB	4.43 dB	
LTE Band 25 (Ant. B)	EIRP	5M_QPSK_RB 1/24	1912.5 MHz	33.00 dBm	24.99 dBm	24.41 dBm	-0.58 dB	3.40 dB	
	RSE	5M_QPSK_RB 1/24	5737.5 MHz	-13.00 dBm	-48.00 dBm	-49.08 dBm	-1.08 dB	4.75 dB	
LTE Band 25 (Ant. F)	EIRP	5M_QPSK_RB 1/24	1912.5 MHz	33.00 dBm	23.94 dBm	23.87 dBm	-0.07 dB	3.45 dB	
	RSE	5M_QPSK_RB 1/0	7650.0 MHz	-13.00 dBm	-59.50 dBm	-59.83 dBm	-0.33 dB	5.33 dB	
LTE Band 66 (Ant. B)	EIRP	10M_QPSK_RB 1/49	1715.0 MHz	30.00 dBm	25.49 dBm	25.18 dBm	-0.31 dB	3.23 dB	
	RSE	10M_QPSK_RB 1/49	5325.0 MHz	-13.00 dBm	-61.50 dBm	-58.41 dBm	3.09 dB	5.43 dB	
LTE Band 66 (Ant. F)	EIRP	15M_QPSK_RB 1/74	1745.0 MHz	30.00 dBm	27.32 dBm	26.37 dBm	-0.95 dB	3.13 dB	
	RSE	15M_QPSK_RB 1/0	5235.0 MHz	-13.00 dBm	-57.50 dBm	-54.62 dBm	2.88 dB	5.23 dB	

Band	Test Item	Worst Mode	Frequency	Test Limit	Reference model	Variant model	Deviation	Criteria Value	Remark
					SM-F971U Results	SM-F971B Results			
5G NR Band n71 (Ant. A)	ERP	5M_QPSK_RB 1/1	680.5 MHz	34.77 dBm	14.80 dBm	16.29 dBm	1.49 dB	4.00 dB	
	RSE	5M_QPSK_RB 1/23	1331.0 MHz	-13.00 dBm	-59.03 dBm	-60.41 dBm	-1.38 dB	5.30 dB	
5G NR Band n71 (Ant. D)	ERP	20M_QPSK_RB 1/1	680.5 MHz	34.77 dBm	16.46 dBm	13.15 dBm	-3.31 dB	3.92 dB	
	RSE	20M_QPSK_RB 1/104	1346.0 MHz	-13.00 dBm	-64.70 dBm	-64.54 dBm	0.16 dB	5.59 dB	
5G NR Band n71 (Ant. A+B)	ERP	20M_QPSK_RB 1/1	688.0 MHz	34.77 dBm	18.85 dBm	17.11 dBm	-1.74 dB	3.80 dB	
	RSE	20M_QPSK_RB 1/104	2019.0 MHz	-13.00 dBm	-59.50 dBm	-63.40 dBm	-3.90 dB	5.33 dB	
5G NR Band n25 (Ant. B)	EIRP	40M_QPSK_RB 1/1	1895.0 MHz	33.00 dBm	25.35 dBm	25.49 dBm	0.14 dB	3.38 dB	
	RSE	40M_QPSK_RB 1/1	5647.5 MHz	-13.00 dBm	-58.70 dBm	-54.62 dBm	4.08 dB	5.29 dB	
5G NR Band n25 (Ant. F)	EIRP	20M_QPSK_RB 1/104	1905.0 MHz	33.00 dBm	24.34 dBm	25.02 dBm	0.68 dB	3.43 dB	
	RSE	20M_QPSK_RB 1/107	7530.0 MHz	-13.00 dBm	-59.40 dBm	-59.77 dBm	-0.37 dB	5.32 dB	
5G NR Band n66 (Ant. B)	EIRP	45M_QPSK_RB 1/1	1745.0 MHz	30.00 dBm	25.35 dBm	25.42 dBm	0.07 dB	3.23 dB	
	RSE	45M_QPSK_RB 1/1	3515.0 MHz	-13.00 dBm	-63.30 dBm	-63.38 dBm	-0.08 dB	5.52 dB	
5G NR Band n66 (Ant. F)	EIRP	40M_QPSK_RB 1/214	1760.0 MHz	30.00 dBm	27.44 dBm	26.96 dBm	-0.48 dB	3.13 dB	
	RSE	40M_QPSK_RB 1/1	5235.0 MHz	-13.00 dBm	-56.70 dBm	-58.33 dBm	-1.63 dB	5.19 dB	
5G NR Band n77 (Low) (Ant. E)	ERP	50M_QPSK_RB 1/66	3475.0 MHz	30.00 dBm	27.43 dBm	27.46 dBm	0.03 dB	3.13 dB	
	RSE	50M_QPSK_RB 1/1	10425.0 MHz	-13.00 dBm	-53.20 dBm	-54.53 dBm	-1.33 dB	5.01 dB	
5G NR Band n77 (Low_SRS#2) (Ant. A)	ERP	100M_SRS#2_QPSK_RB 1/1	3500.0 MHz	30.00 dBm	21.37 dBm	22.67 dBm	1.30 dB	3.43 dB	
	RSE	100M_SRS#2_QPSK_RB 1/1	10499.9 MHz	-13.00 dBm	-52.40 dBm	-50.16 dBm	2.24 dB	4.97 dB	
5G NR Band n77 (Low_SRS#3) (Ant. F)	ERP	100M_SRS#3_QPSK_RB 1/1	3500.0 MHz	30.00 dBm	26.30 dBm	24.12 dBm	-2.18 dB	3.19 dB	
	RSE	100M_SRS#3_QPSK_RB 1/1	10499.9 MHz	-13.00 dBm	-47.90 dBm	-49.49 dBm	-1.59 dB	4.75 dB	
5G NR Band n77 (Low_SRS#4) (Ant. C)	ERP	90M_SRS#4_QPSK_RB 1/1	3505.0 MHz	30.00 dBm	21.55 dBm	20.02 dBm	-1.53 dB	3.42 dB	
	RSE	90M_SRS#4_QPSK_RB 1/1	10485.0 MHz	-13.00 dBm	-53.00 dBm	-54.59 dBm	-1.59 dB	5.00 dB	
5G NR Band n77 (High) (Ant. E)	ERP	10M_QPSK_RB 1/22	3975.0 MHz	30.00 dBm	26.94 dBm	26.23 dBm	-0.71 dB	3.15 dB	
	RSE	10M_QPSK_RB 1/22	15900.0 MHz	-13.00 dBm	-47.90 dBm	-47.70 dBm	0.20 dB	4.75 dB	
5G NR Band n77 (High_SRS#2) (Ant. A)	ERP	100M_SRS#2_QPSK_RB 1/1	3930.0 MHz	30.00 dBm	21.47 dBm	19.08 dBm	-2.39 dB	3.43 dB	
	RSE	100M_SRS#2_QPSK_RB 1/1	15720.0 MHz	-13.00 dBm	-51.90 dBm	-49.92 dBm	1.98 dB	4.95 dB	
5G NR Band n77 (High_SRS#3) (Ant. F)	ERP	100M_SRS#3_QPSK_RB 1/1	3840.0 MHz	30.00 dBm	27.79 dBm	25.06 dBm	-2.73 dB	3.11 dB	
	RSE	100M_SRS#3_QPSK_RB 1/1	11520.0 MHz	-13.00 dBm	-54.10 dBm	-52.62 dBm	1.48 dB	5.06 dB	
5G NR Band n77 (High_SRS#4) (Ant. C)	ERP	100M_SRS#4_QPSK_RB 1/1	3750.0 MHz	30.00 dBm	18.03 dBm	15.42 dBm	-2.61 dB	3.60 dB	
	RSE	100M_SRS#4_QPSK_RB 1/1	15720.0 MHz	-13.00 dBm	-48.93 dBm	-49.04 dBm	-0.11 dB	4.80 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 22/90 S-4792147575-E3_FCC Report WWAN Part 24 S-4792147575-E4_FCC Report WWAN Part 27	Original: S-4792147620-E2_FCC Report WWAN Part 22 S-4792147620-E3_FCC Report WWAN Part 27 Spot-check: S-4792147620-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 B2	Re-use	-
WCDMA B4	Re-use	-
WCDMA B5	Re-use	-
LTE B12	Re-use	-
LTE B13	Re-use	-
LTE B26	Re-use	-
LTE B66	Re-use	-
LTE B41	Full test	-
LTE B25	Re-use	-
NR n71	Re-use	-
NR n5	Full test	-
NR n66	Re-use	-
NR n25	Re-use	-
NR n41	Full test	-
NR n77	Re-use	-

Note 1: LTE B17 is covered by LTE B12 because the conducted output power verification result of LTE B17 is lower than LTE B12

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 22,90.
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

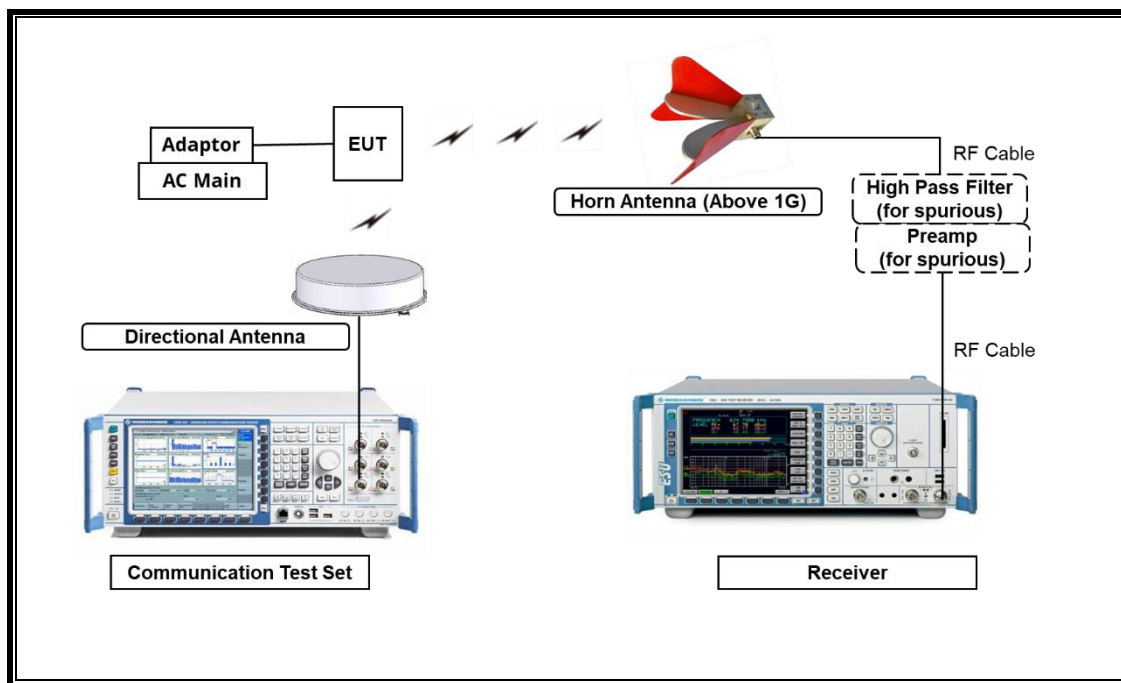
I/O CABLE

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

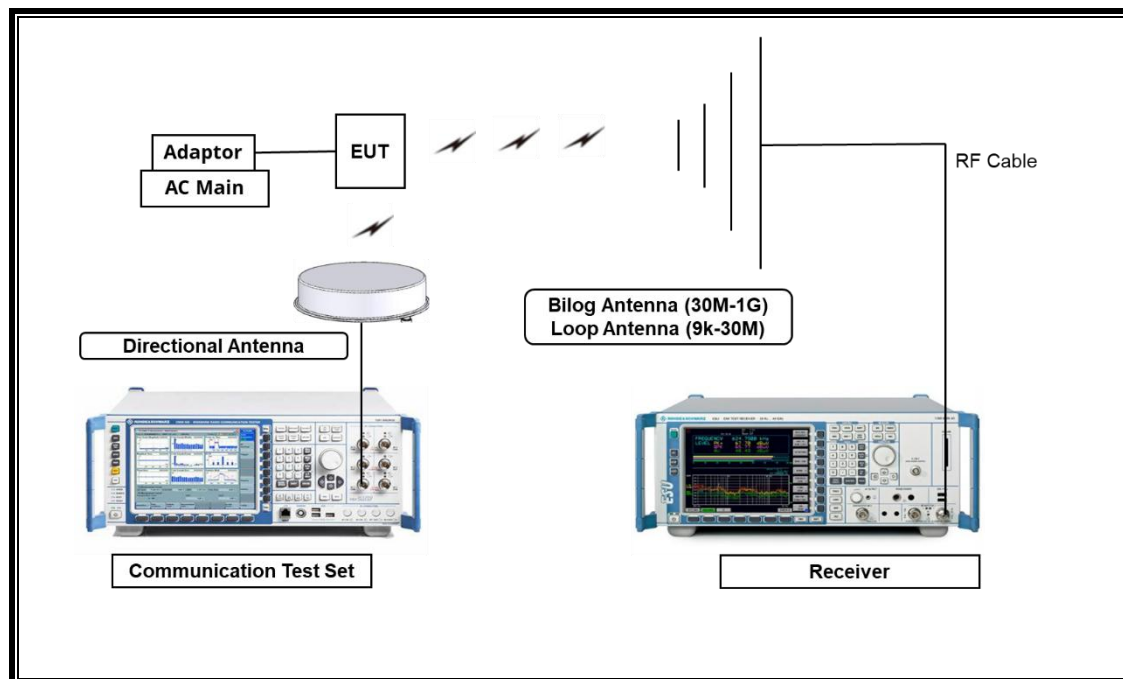
TEST SETUP

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		
90.542(a)(7)		50 dBm		
90.635(b)	Effective Isotropic Radiated Power	33 dBm		Complies
24.232(c)		30 dBm		Complies
27.50(h)(2)				
27.50(d)(4)	Radiated Spurious Emission	-13 dBm		Complies
22.917(a)		-40 dBm		Complies
90.543(c)		-25 dBm		Complies
90.691(a)				
24.238(a)				
27.53(c)				
27.53(h)				
27.53(f)				
90.543(f)				
27.53(m)				

7. RADIATED RESULTS

7.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50, §90.542 and §90.635

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.

§90.542(a)(7) - Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

§90.635(b) The maximum output power of the transmitter for mobile stations is 100 watts (20dBw).

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 #:		4792147620							
Date:		2026-04-23							
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
High Ch									
848.80	32.80	V	3.0	-0.5	29.30	851.29	38.5	-9.2	

GSM 850 (ANT D)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-23							
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	31.74	V	3.0	-0.5	28.24	666.92	38.5	-10.3	

GSM 850 (ANT A+B)

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-23
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	34.89	V	3.0	-0.5	31.39	1377.45	38.5	-7.1	

GSM 1900 (ANT B)

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-16
Test Engineer: 27089
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	27.13	H	4.5	8.9	31.46	1397.99	33.0	-1.5	

WCDMA Band 2 (ANT F)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-16							
Test Engineer:		27089							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 4							
Mode:		Rel99 Band 2 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									
1907.60	20.61	H	4.5	8.9	24.98	314.53	33.0	-8.0	

WCDMA Band 4 (ANT F)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-16							
Test Engineer:		27089							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 4							
Mode:		Rel99 Band 4 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
Mid Ch									
1732.60	20.86	H	4.3	9.5	26.09	406.36	30.0	-3.9	

WCDMA Band 5 (ANT A)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-23							
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
High Ch									
846.60	23.75	V	3.0	-0.5	20.24	105.76	38.5	-18.3	

WCDMA Band 5 (ANT D)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-23							
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
High Ch									
846.60	23.16	V	3.0	-0.5	19.65	92.33	38.5	-18.8	

WCDMA Band 5 (ANT A+B)

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-23
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	26.11	V	3.0	-0.5	22.58	181.33	38.5	-15.9	

LTE Band 26 (ANT A)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-23							
Test Engineer:		26087							
Configuration:		EUT / Z-Position, FF							
Location:		Chamber 1							
Mode:		LTE_QPSK Band 26 Fundamentals, 3MHz 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									
847.50	24.32	V	3.0	-0.5	20.82	120.79	38.5	-17.7	

LTE Band 26 (ANT D)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-23							
Test Engineer:		26087							
Configuration:		EUT / Z-Position, Open							
Location:		Chamber 1							
Mode:		LTE_QPSK Band 26 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									
844.00	22.50	V	3.0	-0.5	18.99	79.29	38.5	-19.5	

LTE Band 26 (ANT A+B)

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-23
Test Engineer: 26087
Configuration: EUT / Z-Position, Open
Location: Chamber 1
Mode: LTE_QPSK Band 26 Fundamentals, 15MHz 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									
836.50	26.28	V	3.0	-0.5	22.75	188.47	38.5	-15.7	

LTE Band 12 (ANT A)

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: Samsung
Project #: 4792147620
Date: 2026-04-23
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
Mid Ch									
707.50	21.42	H	2.8	-1.1	17.52	56.54	34.8	-17.2	

LTE Band 12 (ANT D)

UL Verification Services, Inc.
High Frequency Substitution Measurement

Company: Samsung
Project #: 4792147620
Date: 2026-04-23
Test Engineer: 26087
Configuration: EUT / X-Position, HF
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
Mid Ch									
707.50	18.44	H	2.8	-1.1	14.54	28.47	34.8	-20.2	

LTE Band 12 (ANT A+B)

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-23
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	23.57	H	2.8	-1.1	19.67	92.75	34.8	-15.1	

LTE Band 13 (ANT A)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-23							
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	22.68	H	2.9	-0.8	19.01	79.59	34.8	-15.8	

LTE Band 13 (ANT D)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-23							
Test Engineer:		26087							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 1							
Mode:		LTE_QPSK Band 13 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
Mid Ch									
782.00	19.60	H	2.9	-0.7	15.94	39.25	34.8	-18.8	

LTE Band 13 (ANT A+B)

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-23
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	24.44	H	2.9	-0.8	20.77	119.36	34.8	-14.0	

LTE Band 25 (ANT B)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-16							
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	20.13	H	4.5	8.8	24.41	276.27	33.0	-8.6	

LTE Band 25 (ANT F)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-16							
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	19.59	H	4.5	8.8	23.87	243.97	33.0	-9.1	

LTE Band 66 (ANT B)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-16							
Test Engineer:		27089							
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	19.99	H	4.3	9.5	25.18	329.51	30.0	-4.8	

LTE Band 66 (ANT F)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-16							
Test Engineer:		27089							
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	21.12	H	4.3	9.6	26.37	433.87	30.0	-3.6	

NR Band n71 DFT-s OFDM (ANT A)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-23							
Test Engineer:		26087							
Configuration:		EUT / X-Position, FF							
Location:		Chamber 1							
Mode:		5G NR_QPSK NR n71 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									
680.50	20.20	H	2.7	-1.2	16.29	42.61	34.8	-18.5	

NR Band n71 DFT-s OFDM (ANT D)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-23							
Test Engineer:		26087							
Configuration:		EUT / X-Position, HF							
Location:		Chamber 1							
Mode:		5G NR_QPSK NR n71 Fundamentals, 20MHz 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									
680.50	17.06	H	2.7	-1.2	13.15	20.68	34.8	-21.6	

NR Band n71 DFT-s OFDM (ANT A+B)

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-23
Test Engineer: 26087
Configuration: EUT / X-Position, Open
Location: Chamber 1
Mode: 5G NR_QPSK NR n71 Fundamentals, 20MHz 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									
688.00	21.02	H	2.7	-1.2	17.11	51.40	34.8	-17.7	

NR Band n25 DFT-s OFDM (ANT B)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-20							
Test Engineer:		28183							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 4							
Mode:		5G NR_QPSK NR n25 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									
1895.00	20.95	H	4.5	9.1	25.49	353.68	33.0	-7.5	

NR Band n25 DFT-s OFDM (ANT F)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-20							
Test Engineer:		28183							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 4							
Mode:		5G NR_QPSK NR n25 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
High Ch									
1905.00	20.61	H	4.5	8.9	25.02	317.33	33.0	-8.0	

NR Band n66 DFT-s OFDM (ANT B)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-20							
Test Engineer:		28183							
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	20.17	H	4.3	9.6	25.42	348.63	30.0	-4.6	

NR Band n66 DFT-s OFDM (ANT F)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-20							
Test Engineer:		28183							
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	21.69	H	4.3	9.6	26.96	496.13	30.0	-3.0	

NR Band n77(PC2, 3450-3550 MHz) DFT-s OFDM (ANT E)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-20							
Test Engineer:		28183							
Configuration:		EUT / Z-Position, Open							
Location:		Chamber 4							
Mode:		5G NR_QPSK NR n77 LO Fundamentals, 50MHz 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									
3475.02	22.97	H	6.1	10.6	27.46	557.14	30.0	-2.5	

NR Band n77 (PC2, 3450-3550 MHz, SRS2, ANT A)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-21							
Test Engineer:		28183							
Configuration:		EUT / Z-Position, Open							
Location:		Chamber 4							
Mode:		5G NR n77 LQ(SRS) Fundamentals, 100MHz 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									
3499.98	18.18	H	6.2	10.7	22.67	185.03	30.0	-7.3	

NR Band n77 (PC2, 3450-3550 MHz, SRS3, ANT F)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147575							
Date:		2026-04-01							
Test Engineer:		33535							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 4							
Mode:		5G NR n77 LQ(SRS) Fundamentals, 100MHz 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									
3499.98	19.63	H	6.2	10.7	24.12	258.37	30.0	-5.9	

NR Band n77 (PC2, 3450-3550 MHz, SRS4, ANT C)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-21							
Test Engineer:		28183							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 4							
Mode:		5G NR n77 LQ(SRS) Fundamentals, 90MHz 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									
3504.99	15.54	H	6.2	10.7	20.02	100.57	30.0	-10.0	

NR Band n77 (PC2, 3700-3980 MHz) DFT-s OFDM (ANT E)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-20							
Test Engineer:		28183							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 4							
Mode:		5G NR_QPSK NR n77 UP 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
High Ch									
3975.00	22.21	H	6.6	10.6	26.23	419.31	30.0	-3.8	

NR Band n77 (PC2, 3700-3980 MHz, SRS2, ANT A)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-21							
Test Engineer:		28183							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 4							
Mode:		5G NR n77 UP(SRS) Fundamentals, 100MHz 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									
3930.00	15.04	H	6.6	10.6	19.08	80.85	30.0	-10.9	

NR Band n77 (PC2, 3700-3980 MHz, SRS3, ANT F)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-21							
Test Engineer:		28183							
Configuration:		EUT / X-Position, Open							
Location:		Chamber 4							
Mode:		5G NR n77 UP(SRS) Fundamentals, 100MHz 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									
3840.00	20.86	H	6.5	10.7	25.06	320.35	30.0	-4.9	

NR Band n77 (PC2, 3700-3980 MHz, SRS4, ANT C)

UL Verification Services, Inc. High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4792147620							
Date:		2026-04-22							
Test Engineer:		28183							
Configuration:		EUT / X-Position, HF							
Location:		Chamber 4							
Mode:		5G NR n77 UP(SRS) Fundamentals, 100MHz 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									
3750.00	11.04	H	6.4	10.8	15.42	34.80	30.0	-14.6	

7.2. RADIATED SPURIOUS EMISSION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53, §90.543 and §90.691

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.

§90.543(c)

On any frequency outside of the frequency ranges covered by the ACP tables in this section, the power of any emission must be reduced below the mean output power (P) by at least $43 + 10 \log(P)$ dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz

§90.543(f)

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics 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.

§90.691(a):

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. (NOTE : Use 100kHz reference bandwidth)

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

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 #: 4792147620 Date: 2026-04-22 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>Mid Ch, 836.6MHz</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2509.80</td><td>-66.8</td><td>H</td><td>3.0</td><td>-1.6</td><td>11.74</td><td>-56.7</td><td>-13.0</td><td>-43.7</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></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, 836.6MHz										2509.80	-66.8	H	3.0	-1.6	11.74	-56.7	-13.0	-43.7											
	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	-66.8	H	3.0	-1.6	11.74	-56.7	-13.0	-43.7																																	

GPRS ANT D	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147620 Date: 2026-04-22 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>Mid Ch, 836.6MHz</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2509.80</td><td>-56.0</td><td>H</td><td>3.0</td><td>-2.5</td><td>11.74</td><td>-46.8</td><td>-13.0</td><td>-33.8</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></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, 836.6MHz										2509.80	-56.0	H	3.0	-2.5	11.74	-46.8	-13.0	-33.8											
	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	-56.0	H	3.0	-2.5	11.74	-46.8	-13.0	-33.8																																	

GPRS ANT A+B	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement																																																
	Company: Samsung Project #: 4792147620 Date: 2026-04-22 Test Engineer: 26087 Configuration: EUT / X-Position, Open Location: Chamber 1 Mode: GPRS 850 MHz Harmonics Test Voltage: AC 120 V, 60 Hz																																																
	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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 colspan="10" style="text-align: left; padding-left: 5px;">High Ch, 848.8MHz</td> </tr> <tr> <td>2546.40</td> <td>-61.0</td> <td>H</td> <td>3.0</td> <td>-2.4</td> <td>11.74</td> <td>-51.7</td> <td>-13.0</td> <td>-38.7</td> <td></td> </tr> <tr> <td colspan="10" style="text-align: left; padding-left: 5px;">NF : Noise Floor</td> </tr> </tbody> </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	-61.0	H	3.0	-2.4	11.74	-51.7	-13.0	-38.7		NF : Noise Floor								
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2546.40	-61.0	H	3.0	-2.4	11.74	-51.7	-13.0	-38.7																																									
NF : Noise Floor																																																	

GSM1900

GPRS ANT B	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement																																																	
	Company: Samsung																																																	
	Project #: 4792147620																																																	
	Date: 2026-04-21																																																	
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; text-align: center;"> <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 colspan="10" style="text-align: left; padding-left: 5px;">Mid Ch, 1880MHz</td> </tr> <tr> <td style="background-color: #e0f7fa;">3760.00</td> <td style="background-color: #e0f7fa;">-59.2</td> <td>H</td> <td>3.0</td> <td>0.9</td> <td>11.74</td> <td style="background-color: #f5f5f5;">-46.5</td> <td style="background-color: #f5f5f5;">-13.0</td> <td style="background-color: #f5f5f5;">-33.5</td> <td></td> </tr> <tr> <td colspan="10" style="padding: 5px;">NF : Noise Floor</td> </tr> </tbody> </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, 1880MHz										3760.00	-59.2	H	3.0	0.9	11.74	-46.5	-13.0	-33.5		NF : Noise Floor									
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3760.00	-59.2	H	3.0	0.9	11.74	-46.5	-13.0	-33.5																																										
NF : Noise Floor																																																		

WCDMA Band 2

GPRS ANT F	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147620 Date: 2026-04-21 Test Engineer: 27089 Configuration: EUT / AC Adapter, X-Position, Open Location: Chamber 2 Mode: Rel99 Band 2 Harmonics Test Voltage: 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, 1907.6MHz									
	7630.40	-80.0	H	3.0	8.5	11.74	-59.8	-13.0	-46.8	NF
NF : Noise Floor										

WCDMA Band 4

GPRS ANT F	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147620 Date: 2026-04-21 Test Engineer: 27089 Configuration: EUT / AC Adapter, X-Position, Open Location: Chamber 2 Mode: Rel99 Band 4 Harmonics Test Voltage: 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, 1752.6MHz									
	7010.40	-80.0	H	3.0	7.4	11.74	-60.9	-13.0	-47.9	NF
NF : Noise Floor										

WCDMA Band 5

REL99 ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147620 Date: 2026-04-22 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	-73.6	H	3.0	-6.4	11.74	-68.3	-13.0	-55.3	
	NF : Noise Floor									
REL99 ANT D	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147620 Date: 2024-04-22 Test Engineer: 26087 Configuration: EUT / AC Adapter, X-Position, HF 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
	Mid Ch, 836.6MHz									
	1673.20	-74.1	H	3.0	-7.1	11.74	-69.5	-13.0	-56.5	
	NF : Noise Floor									

REL99 ANT A+B	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147620 Date: 2026-04-22 Test Engineer: 26087 Configuration: EUT / AC Adapter, Y-Position, Open Location: Chamber 1 Mode: HSDPA Band 5 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 colspan="10">Low Ch, 826.4MHz</td> </tr> <tr> <td>1652.80</td> <td style="background-color: #e0f7fa;">-71.4</td> <td style="text-align: center;">V</td> <td style="text-align: center;">3.0</td> <td style="text-align: center;">-7.2</td> <td style="text-align: center;">11.74</td> <td style="background-color: #e0f7fa;">-66.9</td> <td style="text-align: center;">-13.0</td> <td style="text-align: center;">-53.9</td> <td></td> </tr> <tr> <td colspan="10">NF : Noise Floor</td> </tr> </tbody> </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, 826.4MHz										1652.80	-71.4	V	3.0	-7.2	11.74	-66.9	-13.0	-53.9		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, 826.4MHz																																									
1652.80	-71.4	V	3.0	-7.2	11.74	-66.9	-13.0	-53.9																																	
NF : Noise Floor																																									

LTE Band 26

QPSK
ANT A

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-22
Test Engineer: 27089
Configuration: EUT / Y-Position, FF
Location: Chamber 2
Mode: LTE_QPSK Band 26(Part90) Harmonics, 3MHz 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
Low Ch, 815.5MHz									
1631.00	-70.9	V	3.0	-6.5	11.74	-65.7	-13.0	-52.7	
NF : Noise Floor									

QPSK
ANT D

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-22
Test Engineer: 26087
Configuration: EUT / AC Adapter, X-Position, Open
Location: Chamber 1
Mode: LTE_QPSK Band 26 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, 844MHz									
2532.00	-74.4	H	3.0	-2.5	11.74	-65.1	-13.0	-52.1	
NF : Noise Floor									

QPSK ANT A+B	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement																																						
	Company: Samsung Project #: 4792147620 Date: 2026-04-22 Test Engineer: 26087 Configuration: EUT / AC Adapter, X-Position, Open Location: Chamber 1 Mode: LTE_QPSK Band 26(Part90) Harmonics, 3MHz Bandwidth Test Votage: AC 120 V, 60 Hz																																						
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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, 822.5MHz																																							
1645.00	-66.1	H	3.0	-7.3	11.74	-61.7	-13.0	-48.7																															

LTE Band 12

QPSK ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Project #: Date: Test Engineer: Configuration: Location: Mode: Test Votage: Samsung 4792147620 2026-04-21 27089 EUT / X-Position, FF Chamber 2 LTE_QPSK Band 12 Harmonics, 10MHz Bandwidth AC 120 V, 60 Hz																																																		
	<table><tr><th>f</th><th>SA reading</th><th>Ant. Pol.</th><th>Distance</th><th>AFCL</th><th>Conversion</th><th>EIRP</th><th>Limit</th><th>Delta</th><th>Notes</th></tr><tr><th>MHz</th><th>(dBm)</th><th>(H/V)</th><th>(m)</th><th>(dB/m)</th><th>Factor(dB)</th><th>(dBm)</th><th>(dBm)</th><th>(dB)</th><th></th></tr><tr><td colspan="10">High Ch, 711MHz</td></tr><tr><td>1422.00</td><td>-63.8</td><td>H</td><td>3.0</td><td>-6.1</td><td>11.74</td><td>-58.2</td><td>-13.0</td><td>-45.2</td><td></td></tr><tr><td colspan="10">NF : Noise Floor</td></tr></table>	f	SA reading	Ant. Pol.	Distance	AFCL	Conversion	EIRP	Limit	Delta	Notes	MHz	(dBm)	(H/V)	(m)	(dB/m)	Factor(dB)	(dBm)	(dBm)	(dB)		High Ch, 711MHz										1422.00	-63.8	H	3.0	-6.1	11.74	-58.2	-13.0	-45.2		NF : Noise Floor									
	f	SA reading	Ant. Pol.	Distance	AFCL	Conversion	EIRP	Limit	Delta	Notes																																									
	MHz	(dBm)	(H/V)	(m)	(dB/m)	Factor(dB)	(dBm)	(dBm)	(dB)																																										
High Ch, 711MHz																																																			
1422.00	-63.8	H	3.0	-6.1	11.74	-58.2	-13.0	-45.2																																											
NF : Noise Floor																																																			

QPSK ANT D	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Project #: Date: Test Engineer: Configuration: Location: Mode: Test Votage: Samsung 4792147620 2026-04-22 26087 EUT / AC Adapter, X-Position, Open Chamber 1 LTE_QPSK Band 12 Harmonics, 10MHz Bandwidth AC 120 V, 60 Hz																																																		
	<table><tr><th>f</th><th>SA reading</th><th>Ant. Pol.</th><th>Distance</th><th>AFCL</th><th>Conversion</th><th>EIRP</th><th>Limit</th><th>Delta</th><th>Notes</th></tr><tr><th>MHz</th><th>(dBm)</th><th>(H/V)</th><th>(m)</th><th>(dB/m)</th><th>Factor(dB)</th><th>(dBm)</th><th>(dBm)</th><th>(dB)</th><th></th></tr><tr><td colspan="10">High Ch, 711MHz</td></tr><tr><td>1422.00</td><td>-73.5</td><td>H</td><td>3.0</td><td>-7.1</td><td>11.74</td><td>-68.9</td><td>-13.0</td><td>-55.9</td><td></td></tr><tr><td colspan="10">NF : Noise Floor</td></tr></table>	f	SA reading	Ant. Pol.	Distance	AFCL	Conversion	EIRP	Limit	Delta	Notes	MHz	(dBm)	(H/V)	(m)	(dB/m)	Factor(dB)	(dBm)	(dBm)	(dB)		High Ch, 711MHz										1422.00	-73.5	H	3.0	-7.1	11.74	-68.9	-13.0	-55.9		NF : Noise Floor									
	f	SA reading	Ant. Pol.	Distance	AFCL	Conversion	EIRP	Limit	Delta	Notes																																									
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1422.00	-73.5	H	3.0	-7.1	11.74	-68.9	-13.0	-55.9																																											
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QPSK ANT A+B	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147620 Date: 2026-04-22 Test Engineer: 26087 Configuration: EUT / AC Adapter, X-Position, HF Location: Chamber 1 Mode: LTE_QPSK Band 12 Harmonics, 5MHz Bandwidth 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 colspan="10">Mid Ch, 707.5MHz</td> </tr> <tr> <td style="background-color: #e0f7fa;">2122.50</td> <td style="background-color: #e0f7fa;">-54.5</td> <td style="background-color: #e0f7fa;">V</td> <td style="background-color: #e0f7fa;">3.0</td> <td style="background-color: #e0f7fa;">-3.6</td> <td style="background-color: #e0f7fa;">11.74</td> <td style="background-color: #e0f7fa;">-46.3</td> <td style="background-color: #e0f7fa;">-13.0</td> <td style="background-color: #e0f7fa;">-33.3</td> <td></td> </tr> <tr> <td colspan="10">NF : Noise Floor</td> </tr> </tbody> </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, 707.5MHz										2122.50	-54.5	V	3.0	-3.6	11.74	-46.3	-13.0	-33.3		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																																
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2122.50	-54.5	V	3.0	-3.6	11.74	-46.3	-13.0	-33.3																																	
NF : Noise Floor																																									

LTE Band 13

QPSK ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147620 Date: 2026-04-21 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									
	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	-74.4	V	3.0	-6.7	11.74	-69.3	-40.0	-29.3	
	NF : Noise Floor									
QPSK ANT D	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147620 Date: 2026-04-22 Test Engineer: 26087 Configuration: EUT / AC Adapter, X-Position, Open Location: Chamber 1 Mode: LTE_QPSK Band 13 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
	Mid Ch, 782MHz									
	1564.00	-73.8	H	3.0	-7.6	11.74	-69.7	-40.0	-29.7	
	NF : Noise Floor									

QPSK ANT A+B	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement																																																
	Company: Samsung																																																
	Project #: 4792147620																																																
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f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	AFCL (dB/m)	Conversion Factor(dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																								
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1559.00	-73.4	H	3.0	-7.6	11.74	-69.3	-40.0	-29.3																																									
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

4792147620

2026-04-21

27089

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	-65.5	V	3.0	4.7	11.74	-49.1	-13.0	-36.1	
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

4792147620

2026-04-21

27089

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	-80.1	H	3.0	8.5	11.74	-59.8	-13.0	-46.8	NF
NF : Noise Floor									

LTE Band 66

QPSK
ANT B

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

Company: Samsung

Project #: 4792147620

Date: 2026-04-21

Test Engineer: 27089

Configuration: EUT / X-Position, FF

Location: Chamber 2

Mode: LTE_QPSK Band 66 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, 1775MHz									
5325.00	-74.0	V	3.0	3.9	11.74	-58.4	-13.0	-45.4	
NF : Noise Floor									

QPSK
ANT F

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

Company: Samsung

Project #: 4792147620

Date: 2026-04-21

Test Engineer: 27089

Configuration: EUT / Y-Position, FF

Location: Chamber 2

Mode: LTE_QPSK Band 66 Harmonics, 15MHz 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	-70.2	V	3.0	3.8	11.74	-54.6	-13.0	-41.6	
NF : Noise Floor									

NR Band n71 DFT-s OFDM

QPSK ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147620 Date: 2026-04-21 Test Engineer: 27089 Configuration: EUT / X-Position, FF Location: Chamber 2 Mode: 5G NR_QPSK NR n71 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, 665.5MHz</td></tr><tr><td>1331.00</td><td>-66.5</td><td>H</td><td>3.0</td><td>-5.7</td><td>11.74</td><td>-60.4</td><td>-13.0</td><td>-47.4</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, 665.5MHz										1331.00	-66.5	H	3.0	-5.7	11.74	-60.4	-13.0	-47.4		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, 665.5MHz																																																	
1331.00	-66.5	H	3.0	-5.7	11.74	-60.4	-13.0	-47.4																																										
NF : Noise Floor																																																		

QPSK ANT D	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147620 Date: 2026-04-23 Test Engineer: 26087 Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 1 Mode: 5G NR_QPSK NR n71 Harmonics, 20MHz 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, 673MHz</td></tr><tr><td>1346.00</td><td>-69.7</td><td>H</td><td>3.0</td><td>-6.6</td><td>11.74</td><td>-64.5</td><td>-13.0</td><td>-51.5</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, 673MHz										1346.00	-69.7	H	3.0	-6.6	11.74	-64.5	-13.0	-51.5		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, 673MHz																																																	
1346.00	-69.7	H	3.0	-6.6	11.74	-64.5	-13.0	-51.5																																										
NF : Noise Floor																																																		

QPSK ANT A+B	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement																																																
	Company: Samsung																																																
	Project #: 4792147620																																																
	Date: 2026-04-23																																																
Test Engineer: 26087																																																	
Configuration: EUT / AC Adapter, X-Position, FF																																																	
Location: Chamber 1																																																	
Mode: 5G NR_QPSK NR n71 Harmonics, 20MHz Bandwidth																																																	
Test Voltage: AC 120 V, 60 Hz																																																	
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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 colspan="10" style="padding: 2px;">Low Ch, 673MHz</td> </tr> <tr> <td style="padding: 2px;">2019.00</td> <td style="padding: 2px;">-71.5</td> <td style="padding: 2px;">H</td> <td style="padding: 2px;">3.0</td> <td style="padding: 2px;">-3.6</td> <td style="padding: 2px;">11.74</td> <td style="padding: 2px;">-63.4</td> <td style="padding: 2px;">-13.0</td> <td style="padding: 2px;">-50.4</td> <td style="padding: 2px;"></td> </tr> <tr> <td colspan="10" style="padding: 2px;">NF : Noise Floor</td> </tr> </tbody> </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, 673MHz										2019.00	-71.5	H	3.0	-3.6	11.74	-63.4	-13.0	-50.4		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, 673MHz																																																	
2019.00	-71.5	H	3.0	-3.6	11.74	-63.4	-13.0	-50.4																																									
NF : Noise Floor																																																	

NR Band n25 DFT-s OFDM

QPSK ANT B	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147620 Date: 2026-04-22 Test Engineer: 27089 Configuration: EUT / Z-Position, FF Location: Chamber 2 Mode: 5G NR_QPSK NR n25 Harmonics, 40MHz Bandwidth Test Voltage: 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, 1882.5MHz</td></tr><tr><td>5647.50</td><td>-70.8</td><td>H</td><td>3.0</td><td>4.4</td><td>11.74</td><td>-54.6</td><td>-13.0</td><td>-41.6</td><td></td></tr><tr><td colspan="10"></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, 1882.5MHz										5647.50	-70.8	H	3.0	4.4	11.74	-54.6	-13.0	-41.6												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, 1882.5MHz																																																												
	5647.50	-70.8	H	3.0	4.4	11.74	-54.6	-13.0	-41.6																																																				
	NF : Noise Floor																																																												
	QPSK ANT F	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4792147620 Date: 2026-04-22 Test Engineer: 27089 Configuration: EUT / AC Adapter, X-Position, Open Location: Chamber 2 Mode: 5G NR_QPSK NR n25 Harmonics, 20MHz Bandwidth Test Voltage: 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, 1882.5MHz</td></tr><tr><td>7530.00</td><td>-79.8</td><td>H</td><td>3.0</td><td>8.3</td><td>11.74</td><td>-59.8</td><td>-13.0</td><td>-46.8</td><td>NF</td></tr><tr><td colspan="10"></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, 1882.5MHz										7530.00	-79.8	H	3.0	8.3	11.74	-59.8	-13.0	-46.8	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, 1882.5MHz																																																											
		7530.00	-79.8	H	3.0	8.3	11.74	-59.8	-13.0	-46.8	NF																																																		
NF : Noise Floor																																																													

NR Band n66 DFT-s OFDM

QPSK

ANT B

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Test Votage:

Samsung

4792147620

2026-04-22

27089

EUT / AC Adapter, X-Position, Open

Chamber 2

5G NR_QPSK NR n66 Harmonics, 45MHz 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, 1757.5MHz									
3515.00	-75.4	V	3.0	0.3	11.74	-63.4	-13.0	-50.4	
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

4792147620

2026-04-22

27089

EUT / AC Adapter, X-Position, FF

Chamber 2

5G NR_QPSK NR n66 Harmonics, 40MHz 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	-73.9	H	3.0	3.8	11.74	-58.3	-13.0	-45.3	
NF : Noise Floor									

NR Band n77(PC2, 3450-3550 MHz) DFT-s OFDM

QPSK
ANT E

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-22
Test Engineer: 27089
Configuration: EUT / AC Adapter, Z-Position, HF
Location: Chamber 2
Mode: 5G NR_QPSK NR n77 LO Harmonics, 50MHz 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
Low Ch, 3475MHz									
10425.00	-80.6	V	3.0	14.3	11.74	-54.5	-13.0	-41.5	
NF : Noise Floor									

QPSK
ANT A
SRS 2

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-24
Test Engineer: 27089
Configuration: EUT / AC Adapter, Y-Position, Open
Location: Chamber 2
Mode: 5G NR n77 LO(SRS) Harmonics, 100MHz 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, 3499.98MHz									
10499.94	-76.6	H	3.0	14.7	11.74	-50.2	-13.0	-37.2	
NF : Noise Floor									

QPSK

ANT F

SRS 3

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Test Votage:

Samsung

4792147620

2026-04-24

27089

EUT / AC Adapter, Z-Position, HF

Chamber 2

5G NR n77 LQ(SRS) Harmonics, 100MHz 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, 3499.98MHz									
10499.94	-75.9	V	3.0	14.7	11.74	-49.5	-13.0	-36.5	
NF : Noise Floor									

QPSK

ANT C

SRS 4

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Test Votage:

Samsung

4792147620

2026-04-24

27089

EUT / AC Adapter, Y-Position, FF

Chamber 2

5G NR n77 LQ(SRS) Harmonics, 90MHz 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, 3495MHz									
10485.00	-81.0	H	3.0	14.6	11.74	-54.6	-13.0	-41.6	
NF : Noise Floor									

NR Band n77 (PC2, 3700-3980 MHz) DFT-s OFDM

QPSK
ANT E

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-22
Test Engineer: 27089
Configuration: EUT / AC Adapter, X-Position, Open
Location: Chamber 2
Mode: 5G NR_QPSK NR n77 UP 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, 3975MHz									
15900.00	-82.2	H	3.0	22.7	11.74	-47.7	-13.0	-34.7	NF
NF : Noise Floor									

QPSK
ANT A
SRS 2

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-24
Test Engineer: 27089
Configuration: EUT / AC Adapter, X-Position, Open
Location: Chamber 2
Mode: 5G NR n77 UP(SRS) Harmonics, 100MHz 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, 3930MHz									
15720.00	-82.8	H	3.0	21.2	11.74	-49.9	-13.0	-36.9	NF
NF : Noise Floor									

QPSK
ANT F
SRS 3

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-24
Test Engineer: 27089
Configuration: EUT / AC Adapter, X-Position, Open
Location: Chamber 2
Mode: 5G NR n77 UP(SRS) Harmonics, 100MHz Bandwidth
Test Voltage: 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, 3840MHz									
11520.00	-80.9	H	3.0	16.6	11.74	-52.6	-13.0	-39.6	
NF : Noise Floor									

QPSK
ANT C
SRS 4

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

Company: Samsung
Project #: 4792147620
Date: 2026-04-24
Test Engineer: 27089
Configuration: EUT / AC Adapter, Z-Position, HF
Location: Chamber 2
Mode: 5G NR n77 UP(SRS) Harmonics, 100MHz Bandwidth
Test Voltage: 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, 3930MHz									
15720.00	-81.9	V	3.0	21.2	11.74	-49.0	-13.0	-36.0	
NF : Noise Floor									

END OF REPORT