

PART 25 SCS TEST REPORT**Applicant Name:**

Samsung Electronics Co., Ltd.
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Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea

Date of Testing:

1/6/2025 - 2/28/2025

Test Report Issue Date:

6/25/2025

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2501020001-51.A3L

FCC ID:

A3LSMG766U

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-G766U

Additional Model(s):

SM-G766U1

EUT Type:

Portable Handset

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part:

2, 22, 24, 25, 27, 90R

Test Procedure(s):

ANSI C63.26-2015, KDB 273109 D02 v01r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



RJ Ortanez
Executive Vice President



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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

1.2 Element Test Location

Measurements were conducted at the Element laboratory(ies) indicated in Section 1.3 below. All measurement facilities are compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element lab located in Columbia, MD 21046, U.S.A.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Washington DC LLC facility is a registered (2451B) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMG766U**.

Test Device Serial No.: 3719M, 3704M, 4500M, 1969M, 4413M

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-Band LTE, MultiBand 5G NR (FR1), 802.11b/g/n/ac/ax WLAN, 802.11a/n/ac/ax UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), NFC, SCS

2.3 Test Configuration

The EUT was tested per the guidance of ANSI C63.26-2015.

2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version C766USQ0AXL3 installed on the EUT.

2.5 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

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3.0 SCS COMPLIANCE ASSESSMENT

This EUT supports Supplemental Coverage from Space (SCS) capabilities as allowed by FCC KDB Publication 273109 D02 and several sections of Part 25, including §25.109, §25.204, §25.125, and §25.115. The technical service rules for demonstration of compliance fall under FCC Parts 22, 24, and 27 within the allowed operating bands specified in Section 3 of KDB 273109 D02.

This EUT supports SCS capabilities only in bands shown in the table below. The last column of the table indicates the serial number of the test report to reference within the filing to review the technical compliance data for the supported SCS band.

CMRS Band	3GPP Band Reference	DL Frequency (MHz)	UL Frequency (MHz)	FCC Rule Part	Reference Report Serial Number
600 MHz	71	617 – 652	663 – 698	27	1M2501020001-09.A3L
700 MHz	12	728 – 746	699 – 716	27	1M2501020001-09.A3L
700 MHz	13	746 – 756	777 – 787	27	1M2501020001-09.A3L
700 MHz	14	758 – 768	788 – 798	90R	1M2501020001-12.A3L
800 MHz (Cellular)	5/26	869 – 894	824 – 849	22	1M2501020001-07.A3L
PCS (1900 MHz)	2/25	1930 – 1995	1850 – 1915	24	1M2501020001-08.A3L
AWS-H Block	70	1995 – 2000	1915 – 1920	27	1M2501020001-09.A3L

Table 3-1. SCS Supported Bands

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