



## EVALUATION REPORT

### Applicant Name:

Samsung Electronics Co., Ltd.  
129, Samsung-ro, Maetan dong,  
Yeongtong-gu, Suwon-si  
Gyeonggi-do, 16677, Korea

### Date of Evaluation:

04/17/2017

### Test Site/Location:

PCTEST Lab, Columbia, MD, USA

### FCC ID:

**A3LSMN935F**

### APPLICANT:

**SAMSUNG ELECTRONICS CO. , LTD.**

### Test Data Re-Use Summary

#### Introduction

FCC ID: A3LSMN935F  
Equipment Class(es): PCE, DTS, NII, DSS, DXX  
Rule Part(s): 2, 15, 22, 24, 27, 90  
Frequency Bands: See table below  
Attestation: The applicant takes full responsibility that the test data referenced below represents compliance for this FCC ID

#### Differences

Brief Description: The 2G3G, LTE, Bluetooth, WLAN, ANT+ and NFC hardware and software of this device are identical to the implementation in A3LSMN930F. The operational description includes detailed information about the changes between the devices. The data from that application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the summary table below.

### Spot Check Verification Result Summary (See following pages for data)

| Category | Frequency Band   | Test Condition     | Verdict |
|----------|------------------|--------------------|---------|
| EMC      | Pt. 22           | ERP                | Share   |
|          | Pt. 22           | RSE                | Share   |
|          | Pt. 24           | ERP                | Share   |
|          | Pt. 24           | RSE                | Share   |
|          | Pt. 27 (700MHz)  | ERP                | Share   |
|          | Pt. 27 (700MHz)  | RSE                | Share   |
|          | Pt. 27 (1700MHz) | ERP                | Share   |
|          | Pt. 27 (1700MHz) | RSE                | Share   |
|          | Pt. 27 (2600MHz) | EIRP               | Share   |
|          | Pt. 27 (2600MHz) | RSE                | Share   |
|          | Pt. 90 (800MHz)  | ERP                | Share   |
|          | Pt. 90 (800MHz)  | RSE                | Share   |
|          | 2.4 GHz WLAN     | Band Edge          | Share   |
|          |                  | Spurious Emissions | Share   |
|          |                  | Conducted Power    | Share   |
|          | 5 GHz WLAN       | Band Edge          | Share   |
|          |                  | Spurious Emissions | Share   |
|          |                  | Conducted Power    | Share   |
|          | Bluetooth        | Band Edge          | Share   |
|          |                  | Spurious Emissions | Share   |
|          |                  | Conducted Power    | Share   |
|          | ANT+             | In Band Power      | Share   |
|          |                  | RSE                | Share   |
|          | RFID             | In Band Power      | Share   |
|          |                  | RSE                | Share   |

### Reference Detail Section

| Equipment Class | Reference FCC ID | Report Title        | Shared Data  |
|-----------------|------------------|---------------------|--------------|
| PCE             | A3LSMN930F       | 2G3G Report         | All Sections |
|                 | A3LSMN930F       | LTE Report          | All Sections |
|                 | A3LSMN930F       | Pt. 90 Report       | All Sections |
| DTS             | A3LSMN930F       | WLAN DTS Report     | All Sections |
|                 | A3LSMN930F       | Bluetooth LE Report | All Sections |
| NII             | A3LSMN930F       | UNII Report         | All Sections |
|                 | A3LSMN930F       | DFS Report          | All Sections |
| DSS             | A3LSMN930F       | Bluetooth Report    | All Sections |
| DXX             | A3LSMN930F       | ANT+ Test Report    | All Sections |
|                 | A3LSMN930F       | RFID Test Report    | All Sections |

|                                   |                                                                                     |                   |                                                                                       |                                 |
|-----------------------------------|-------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID : A3LSMN935F               |  | EVALUATION REPORT |  | Reviewed by:<br>Quality Manager |
| Date of Evaluation:<br>04/17/2017 | DUT Type:<br>Portable Handset                                                       |                   |                                                                                       | Page 1 of 2                     |

# SPOT CHECK VERIFICATION DATA

## EMC Verification Data Section

| Band/Mode        | Test Case     | Frequency (MHz) | A3LSMN930F | Unit   | A3LSMN935F | Unit   | Verdict |
|------------------|---------------|-----------------|------------|--------|------------|--------|---------|
| Pt. 22           | ERP           | 836.6           | 22.45      | dBm    | 21.38      | dBm    | Share   |
| Pt. 22           | RSE           | 1652.8          | -42.73     | dBm    | -46.89     | dBm    | Share   |
| Pt. 24           | EIRP          | 1880            | 28.97      | dBm    | 27.55      | dBm    | Share   |
| Pt. 24           | RSE           | 3700.4          | -40.14     | dBm    | -44.08     | dBm    | Share   |
| Pt. 27 (700MHz)  | ERP           | 713.5           | 19.84      | dBm    | 17.53      | dBm    | Share   |
| Pt. 27 (700MHz)  | RSE           | 2122.5          | -42.00     | dBm    | -70.63     | dBm    | Share   |
| Pt. 27 (1700MHz) | EIRP          | 1711.5          | 22.94      | dBm    | 23.30      | dBm    | Share   |
| Pt. 27 (1700MHz) | RSE           | 5260.5          | -44.09     | dBm    | -55.25     | dBm    | Share   |
| Pt. 27 (2600MHz) | EIRP          | 2593            | 20.90      | dBm    | 21.37      | dBm    | Share   |
| Pt. 27 (2600MHz) | RSE           | 5186            | -36.63     | dBm    | -39.72     | dBm    | Share   |
| Pt. 90 (800MHz)  | Cond. Power   | 823.3           | 23.30      | dBm    | 22.56      | dBm    | Share   |
| Pt. 90 (800MHz)  | RSE           | 1646.6          | -32.92     | dBm    | -46.66     | dBm    | Share   |
| 2.4 GHz WLAN     | Band Edge     | 2390.0          | 51.49      | dBμV/m | 47.05      | dBμV/m | Share   |
| 2.4 GHz WLAN     | RSE           | 4924.0          | 44.58      | dBμV/m | 40.84      | dBμV/m | Share   |
| 5 GHz WLAN       | Band Edge     | 5460.0          | 51.88      | dBμV/m | 49.95      | dBμV/m | Share   |
| 5 GHz WLAN       | RSE           | 17355.0         | 65.20      | dBμV/m | 65.11      | dBμV/m | Share   |
| Bluetooth        | Band Edge     | 2483.5          | 36.81      | dBμV/m | 32.97      | dBμV/m | Share   |
| Bluetooth        | RSE           | 12400.0         | 47.65      | dBμV/m | 47.23      | dBμV/m | Share   |
| ANT+             | In Band Power | 2402.0          | 98.66      | dBμV/m | 93.56      | dBμV/m | Share   |
| ANT+             | RSE           | 12400.0         | 60.66      | dBμV/m | 56.22      | dBμV/m | Share   |
| RFID             | In Band Power | 13.56           | 12.04      | dBμV/m | 11.34      | dBμV/m | Share   |
| RFID             | RSE           | 40.68           | 19.26      | dBμV/m | 11.79      | dBμV/m | Share   |

|                                   |                                                                                                                                   |                   |                                                                                       |                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID : A3LSMN935F               |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | EVALUATION REPORT |  | Reviewed by:<br>Quality Manager |
| Date of Evaluation:<br>04/17/2017 | DUT Type:<br>Portable Handset                                                                                                     |                   |                                                                                       | Page 2 of 2                     |