



## EVALUATION REPORT

### Applicant Name:

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

### Date of Evaluation:

02/13/2017

### Test Site/Location:

PCTEST Lab, Columbia, MD, USA

### FCC ID:

**A3LSMG9550**

### APPLICANT:

**SAMSUNG ELECTRONICS CO. , LTD.**

#### Test Data Re-Use Summary

##### Introduction

FCC ID: A3LSMG9550  
Equipment Class(es) for Re-Use: DTS, NII, DSS, DXX  
Rule Part(s) for Re-Use: 2, 15  
Frequency Bands for Re-Use: 2.4 GHz WLAN, 5 GHz WLAN, Bluetooth, ANT+, NFC  
Attestation: The applicant takes full responsibility that the test data referenced below represents compliance for this FCC ID

##### Differences

Brief Description: The Bluetooth, WLAN, and ANT+ hardware and software of this device are identical to the implementation in A3LSMG955U. 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 |
|----------|---------------------|--------------------|---------|
| SAR      | 2.4 GHz WLAN, Ant 1 | Head               | Share   |
|          |                     | Body-Worn          | Share   |
|          |                     | Hotspot            | Share   |
|          | 2.4 GHz WLAN, Ant 2 | Head               | Share   |
|          |                     | Body-Worn          | Share   |
|          |                     | Hotspot            | Share   |
|          | 5 GHz WLAN, Ant 1   | Head               | Retest  |
|          |                     | Body-Worn          | Share   |
|          |                     | Hotspot            | Share   |
|          | 5 GHz WLAN, Ant 2   | Phablet            | Share   |
|          |                     | Head               | Share   |
|          |                     | Body-Worn          | Share   |
| EMC      | 2.4 GHz WLAN        | Hotspot            | Share   |
|          |                     | Phablet            | Share   |
|          |                     | Head               | Share   |
|          | 5 GHz WLAN          | Body-Worn          | Share   |
|          |                     | Hotspot            | Share   |
|          |                     | Phablet            | Share   |
|          | Bluetooth           | Head               | Share   |
|          |                     | Body-Worn          | Share   |
|          |                     | Hotspot            | Share   |
|          | ANT+                | Phablet            | Share   |
|          |                     | Band Edge          | Share   |
|          |                     | Spurious Emissions | Share   |
|          | NFC                 | Band Edge          | Share   |
|          |                     | Spurious Emissions | Share   |
|          |                     | Spurious Emissions | Share   |

#### Reference Detail Section

| Equipment Class | Reference FCC ID | Report Title        | Shared Data                                    |
|-----------------|------------------|---------------------|------------------------------------------------|
| DTS             | A3LSMG955U       | WLAN DTS Report     | All Sections                                   |
|                 | A3LSMG955U       | Bluetooth LE Report | All Sections                                   |
|                 | A3LSMG955U       | SAR Report          | All 2.4 GHz WLAN SAR Data                      |
| NII             | A3LSMG955U       | UNII Report         | All Sections                                   |
|                 | A3LSMG955U       | DFS Report          | All Sections                                   |
|                 | A3LSMG955U       | SAR Report          | All 5 GHz WLAN SAR Data, except Ant 1 Head SAR |
| DSS             | A3LSMG955U       | Bluetooth Report    | All Sections                                   |
|                 | A3LSMG955U       | SAR Report          | All Bluetooth SAR Data                         |
|                 | A3LSMG955U       | ANT+ Test Report    | All Sections                                   |
| DXX             | A3LSMG955U       | NFC Test Report     | All Sections                                   |
|                 | A3LSMG955U       | NFC Test Report     | All Sections                                   |

|                                   |                                                                                     |                   |                                                                                       |                                 |
|-----------------------------------|-------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID A3LSMG9550                 |  | EVALUATION REPORT |  | Reviewed by:<br>Quality Manager |
| Date of Evaluation:<br>02/13/2017 | DUT Type:<br>Portable Handset                                                       |                   |                                                                                       | Page 1 of 2                     |

## SPOT CHECK VERIFICATION DATA

### SAR Verification Data Section

| Band/Mode                 | Exposure Condition | A3LSMG955U<br>Measured SAR<br>(W/kg) | A3LSMG9550<br>Measured SAR<br>(W/kg) | Verdict |
|---------------------------|--------------------|--------------------------------------|--------------------------------------|---------|
| 2.4 GHz WLAN<br>Antenna 1 | Head               | 0.458                                | 0.337                                | Share   |
|                           | Body-w orn         | 0.163                                | 0.128                                | Share   |
|                           | Hotspot            | 0.306                                | 0.172                                | Share   |
| 2.4 GHz WLAN<br>Antenna 2 | Head               | 0.379                                | 0.344                                | Share   |
|                           | Body-w orn         | 0.100                                | 0.091                                | Share   |
|                           | Hotspot            | 0.256                                | 0.172                                | Share   |
| 5 GHz WLAN<br>Antenna 1   | Head               | 0.298                                | 0.436                                | Retest  |
|                           | Body-w orn         | 0.218                                | 0.222                                | Share   |
|                           | Hotspot            | 0.166                                | 0.173                                | Share   |
|                           | Phablet            | 0.851                                | 0.882                                | Share   |
| 5 GHz WLAN<br>Antenna 2   | Head               | 0.273                                | 0.223                                | Share   |
|                           | Body-w orn         | 0.228                                | 0.203                                | Share   |
|                           | Hotspot            | 0.137                                | 0.090                                | Share   |
|                           | Phablet            | 0.737                                | 0.796                                | Share   |
| Bluetooth                 | Head               | 0.079                                | 0.032                                | Share   |
|                           | Body-w orn         | 0.027                                | 0.024                                | Share   |
|                           | Hotspot            | 0.030                                | 0.001                                | Share   |
|                           | Phablet            | 0.482                                | 0.385                                | Share   |

### EMC Verification Data Section

| Band/Mode    | Test Case | Frequency<br>(MHz) | A3LSMG955U<br>(dBμV/m) | A3LSMG9550<br>(dBμV/m) | Verdict |
|--------------|-----------|--------------------|------------------------|------------------------|---------|
| 2.4 GHz WLAN | Band Edge | 2462.0             | 51.97                  | 51.44                  | Share   |
| 2.4 GHz WLAN | RSE       | 4874.0             | 43.47                  | 39.69                  | Share   |
| 5 GHz WLAN   | Band Edge | 5210.0             | 51.68                  | 50.83                  | Share   |
| 5 GHz WLAN   | RSE       | 10560.0            | 50.98                  | 50.89                  | Share   |
| Bluetooth    | Band Edge | 2480.0             | 36.40                  | 34.24                  | Share   |
| Bluetooth    | RSE       | 4882.0             | 54.55                  | 52.74                  | Share   |
| ANT+         | Band Edge | 2480.0             | 66.51                  | 56.98                  | Share   |
| ANT+         | RSE       | 4960.0             | 56.02                  | 50.42                  | Share   |
| NFC          | RSE       | 67.8               | 36.55                  | 38.85                  | Share   |

|                                   |                                                                                     |                   |                                                                                       |                                 |
|-----------------------------------|-------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Date of Evaluation:<br>02/13/2017 | DUT Type:<br>Portable Handset                                                       |                   |                                                                                       | Page 2 of 2                     |