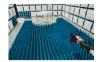


PCTEST ENGINEERING LABORATORY, INC.

7185 Oakland Mills Road, Columbia, MD 21046 USA Tel. 410.290.6652 / Fax 410.290.6654 http://www.pctest.com



MEASUREMENT REPORT FCC PART 15.407

Applicant Name:

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

Date of Testing: 01/22 - 05/17/2019 **Test Site/Location:** PCTEST Lab. Columbia, MD, USA **Test Report Serial No.:** 1M1904220064-09.A3L

FCC ID:

A3LSMF907B

APPLICANT:

Samsung Electronics Co., Ltd.

| Application Type: | Certification |
|-----------------------|---|
| Model: | SM-F907B |
| EUT Type: | Client Only Device, No Radar Detection Capability |
| Max. RF Output Power: | 62.951 mW (17.99 dBm) Conducted |
| | (802.11n UNII Band 2A) |
| | 62.806 mW (17.98 dBm) Conducted |
| | (802.11a UNII Band 2C) |
| Frequency Range: | 5260 – 5320 MHz (UNII-2A Band) |
| | 5500 – 5720 MHz (UNII-2C Band) |
| FCC Classification: | Unlicensed National Information Infrastructure (UNII) |
| FCC Rule Part(s): | Part 15.407(UNII) |
| Test Procedure(s): | KDB 905462 D02 v02 |

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 KDB 905462 D02 v02 Compliance Measurement Procedures for Unlicensed-National Information Infrastructure Devices Operating in the 5.25 - 5.35 GHz and 5.47 - 5.725 GHz Bands Incorporating Dynamic Frequency Selection. 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.





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.0 INTRODUCTION

1.1 Scope

This report has been prepared to demonstrate compliance with the requirements for Dynamic Frequency Selection (DFS) as stated in KDB 905462 D02 v02. Testing was performed on the Samsung Portable Handset FCC ID: A3LSMF907B. As of July 20, 2007 all devices operating in the 5250 - 5350 MHz and/or the 5470 - 5725 MHz bands must comply with the DFS requirements. As the EUT does not have radar detection capability it was evaluated as a Client Only Device. All test results reported herein are applicable to the sample selected for testing. The unit used for testing was supplied by Samsung Electronics Co., Ltd..

1.2 Evaluation Procedure

Conducted test methodology was used for the DFS evaluation procedure of the EUT. No deviations to the test procedure and test methods occurred during the evaluation of the EUT.

1.3 Summary of Test Results

The EUT was found to be compliant with the requirements for DFS as required for a Client Device per Part 15.407(h), RSS-247 and KDB 905462 D02 v02. The following table lists the measured parameters. The actual data and plots can be found in Section 5 and 6 of this report.

| | Parameter | Measured | Limit | Result |
|------------------|-----------------------------------|--|---|--------|
| 5 MHz Band | Channel Move Time | 0.22 s | 10 seconds | Pass |
| – 5725 – 2C B | Channel Closing Transmission Time | < 200ms + 0.00 ms (aggregate) | 200ms + aggregate of 60ms over remaining 10 second period | Pass |
| 5470 UNII | Client beacon test | Monitored for 10 minutes with no client transmission | No client transmission occurred | Pass |

Table 1-1. DFS Test Results Summary

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0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the Samsung Portable Handset FCC ID: A3LSMF907B.

Mode of Operation:

| Master Device | |
|------------------------------------|-------------|
| Client Device (No radar detection) | \boxtimes |
| Client Device with Radar Detection | |

| Parameters of EUT: | |
|--------------------|--|
| Frequency | 5260 – 5320 MHz 5500 – 5720 MHz |
| Output Power: | 62.951 mW (17.99 dBm) Conducted (802.11n UNII Band 2A) 62.806 mW (17.98 dBm) Conducted (802.11a UNII Band 2C) |
| Modulation: | OFDM |
| Channel Bandwidth: | 20, 40, 80 MHz |

Table 2-1. Parameters of EUT

Test Device Serial No.: 2166M, 2219M

2.2 EUT Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA, 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII, Bluetooth (1x, EDR, LE), NFC, ANT+, Wireless Power Transfer

2.3 Modifications

No modifications to the EUT were required in order to comply with the DFS specifications.

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3.0 DESCRIPTION OF DYNAMIC FREQUENCY SELECTION TEST

3.1 Applicability

The following table from KDB 905462 D02 v02 lists the applicable requirements for the DFS testing. The device evaluated in this report is considered a client device without radar detection capability.

| Requirement | Operational Mode | | |
|---------------------------------|------------------|-----------------------------------|--------------------------------|
| | Master | Client Without Radar Detection | Client With Radar Detection |
| Non-Occupancy Period | Yes | Not required | Yes |
| DFS Detection Threshold | Yes | Not required | Yes |
| Channel Availability Check Time | Yes | Not required | Not required |
| Uniform Spreading | Yes | Not required | Not required |
| U-NII Detection Bandwidth | Yes | Not required | Yes |

Table 3-1. DFS Applicability

| Requirement | Operational Mode | | |
|-----------------------------------|------------------|--------------------------------------|-----------------------------------|
| | Master | Client Without Radar Detection | Client With Radar Detection |
| DFS Detection Threshold | Yes | Not required | Yes |
| Channel Closing Transmission Time | Yes | Yes | Yes |
| Channel Move Time | Yes | Yes | Yes |
| U-NII Detection Bandwidth | Yes | Not required | Yes |
| Client Beacon Test | N/A | Yes | Yes |

 Table 3-2. DFS Applicability During Normal Operation

3.2 Requirements

Per KDB 905462 D02 v02 the following are the requirements for Client Devices:

- a) A Client Device will not transmit before having received appropriate control signals from a Master Device.
- b) A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing Transmission Time requirements.

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The Client Device will not resume any transmissions until it has again received control signals from a Master Device.

- c) If a Client Device is performing In-Service Monitoring and detects a Radar Waveform above the DFS Detection Threshold, it will inform the Master Device. This is equivalent to the Master Device detecting the Radar Waveform and d) through f) of section 5.1.1 apply.
- d) Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.

Channel Move Time and Channel Closing Transmission Time requirements are listed in the following table.

| Parameter | Value |
|-----------------------------------|---|
| Non-occupancy period | Minimum 30 minutes |
| Channel Availability Check Time | 60 seconds |
| Channel Move Time | 10 seconds See Note 1. |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2. |
| U-NII Detection Bandwidth | Minimum 80% of the U- NII 99% transmission power bandwidth. See Note 3. |

Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

• For the Short Pulse Radar Test Signals this instant is the end of the Burst.

 For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.

 For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Table 3-3: DFS Response Requirements

| FCC ID: A3LSMF907B | | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager | |
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3.3 DFS Detection Threshold Values

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring. These detection thresholds are listed in the following table.

| Maximum Transmit Power | Value (See Notes 1 and 2) | | |
|--|------------------------------|--|--|
| ≥ 200 milliwatt | -64 dBm | | |
| < 200 milliwatt | -62 dBm | | |
| Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. | | | |

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Table 3-4: Detection Thresholds for Master Devices and Client Devices with Radar Detection

3.4 Parameters of DFS Test Signals

As the EUT is a Client Device with no Radar Detection only one type radar pulse is required for the testing. Radar Pulse type 1 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time. Table 3-5 lists the parameters for the Short Pulse Radar Waveforms. A plot of the Radar Pulse Type 1 used for testing is included in Section 5.0 of this report.

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|---------------|-----------------------|---------------|------------------------|---|--------------------------------|
| 1 | 1 | 1428 | 18 | 60% | 30 |
| 2 | 1-5 | 150-230 | 23-29 | 60% | 30 |
| 3 | 6-10 | 200-500 | 16-18 | 60% | 30 |
| 4 | 11-20 | 200-500 | 12-16 | 60% | 30 |
| Aggregate (Ra | adar Types 1-4) | 80% | 120 | | |

Table 3-5: Parameters for Short Pulse Radar Waveforms

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (µsec) | Number of Pulses per <i>Burst</i> | Number of <i>Bursts</i> | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|---------------|--------------------------|-------------------------|---------------|---|----------------------------|---|--------------------------------|
| 5 | 50 - 100 | 5 - 20 | 5 – 20 | 1 - 3 | 8 - 20 | 60% | 30 |

Table 3-6. Parameters for Long Pulse Radar Waveforms

| FCC ID: A3LSMF907B | | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
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| Radar Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|---------------|--------------------------|---------------|----------------------|--------------------------|---|--|-----------------------------------|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 70% | 30 |

Table 3-7. Parameters for Frequency Hopping Radar Waveforms

3.5 Procedure

KDB 905462 D02 v02 describes a radiated test setup and a conducted test setup. The conducted test setup was used for this testing. Figure 3-1 shows the typical test setup. In Band 2A, one channel selected between 5260 and 5350 MHz is chosen for the testing. In Band 2C, one channel selected between 5500 and 5720 MHz was chosen for testing.

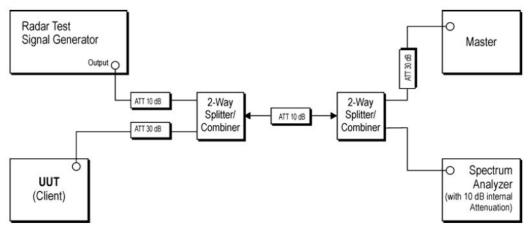


Figure 3-1. Conducted Test Setup for DFS

- 1. The "Aeroflex PXI DFS Radar Simulator and Analyzer Test Suite" is setup to provide a simulated radar pulse at the frequency that the Master and Client are operating. A Type 0 radar pulse was used.
- The Client Device (EUT) is set up per the diagram in Figure 3-1 and communications between the Master device and the Client is established.
- An MPEG or data file that is typical for the device is streamed from the Master to the Client to properly load the network.
- 4. The "Aeroflex PXI DFS Radar Simulator and Analyzer Test Suite" is set to record and display 12 seconds of time, starting from where the simulated radar is generated. This time domain plot captures any transmissions occurring up to and after 10sec. Aggregate time is computed to ensure compliance. (Note: the channel may be different since the Master and Client have changed channels due to the detection of the initial radar pulse.)
- 5. After the initial radar burst the channel is monitored for 10 minutes to ensure no transmissions or beacons occur. A second monitoring setup is used to verify that the Master and Client have both moved to different channels.

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1.0 TEST EQUIPMENT

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2006.

| Manufacturer | Model | Description | Cal Date | Cal Interval | Cal Due | Serial Number |
|--------------|--------|--|-----------|--------------|-----------|---------------|
| Aeroflex | 3035C | PXI RF Digitizer 250 kHz - 6 GHz with 90 MBHz BW | 2/18/2019 | Biennial | 2/18/2021 | 303570427 |
| Agilent | E4448A | PSA (3Hz-50GHz) Spectrum Analyzer | 6/15/2018 | Annual | 6/15/2019 | US42510244 |
| Agilent | N9038A | MXE EMI Receiver | 6/11/2018 | Annual | 6/11/2019 | MY51210133 |

Table 4-1. Annual Test Equipment Calibration Schedule

Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

4.1 Additional Equipment

The following equipment was used in support of the DFS testing.

| Device | Manufacturer | Model/Description | Description | S/N: |
|--------|----------------|-------------------|--------------|-------------|
| Maatar | Master Samsung | WEA453e | Access Point | 2XLU060011P |
| waster | | WEC8050 | Controller | 2XGV250016L |

Table 4-2. Support Equipment

| FCC ID: A3LSMF907B | | MEASUREMENT REPORT (CERTIFICATION) | SAMSUNG | Approved by: Quality Manager |
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5.0 TEST RESULTS

Channel Loading Notes:

Per KDB 905462 D02 v02, timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, you can zero span the spectrum analyzer and approximate the transmission time.

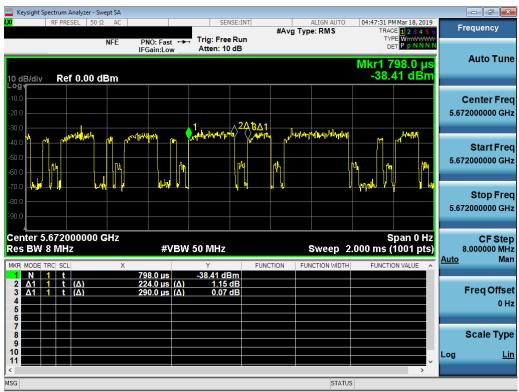


Figure 5-1. Band 2C Pulse Width and Period

Channel Loading = Pulse Width / Period = 224µs / 290µs = 77.2%

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Move Time and Aggregate Time Notes:

- 1. Trigger Threshold was configured to only capture client pulses. The pulses shown in the plots below have been determined to be from the Master AP.
- 2. Marker Info and Aggregate time results are shown on the right side of the plots below.

| Settings IF Frequency: 5.670.000000 + MHz DUT Peak Input Level: -20.00 + dBm DUT Peak Output Level: 0.00 + dBm | | | | | Start Wavefor Generator |
|---|---|-------------------------|------------------|------------------------------|------------------------------|
| VSG Path Loss/Gain: 0.00 a dB VSA Path Loss: 0.00 d dB | | | | | |
| ure Waveform Measurement / Analysis Playb | ack Waveform | | | | |
| gger Settings | Display Settin | | Captured Info | | Marker Info |
| External Trig (I/O): | -40.0 🔶 dBm Display Re | ference Level: 49.7 dBm | Capture Duration | : 12 Sec | Start Waveform |
| T0 (out) Pre-Trigger: | 1000 🌩 ms | | | | 0 Sec |
| | | | | | End Waveform |
| | | | | C 905462 D02 v01 C Type 0 | 0.025706 Sec |
| 40 | | | | | 200ms Boundary |
| | | | | | 0.225706 Sec |
| 20 | | | | antinantinantina | |
| _ 0 | | 'Test Status : Pass' | | | 10s Boundary 10.025706 Se |
| | | | | | 10.023700 36 |
| -20 | | | | cantina ana ana | Channel Move Tin |
| -20 -40 | | Trigger Threshold | | | 0.217014 Sec |
| | | rigger meaning | | | |
| -60 | | | | | Aggregates Burst Qty: |
| -80 | | | | | 200ms Total |
| -00 | | | | | 0.0038 |
| | | | | | Burst Qty: |
| | | | | | 9.8s Total |
|)FS\FCC 905462 D02 v02\Type 0\FCC Type 0 | . Tue width . 1429 ve PRI - 18 oulees aid | | | Select ARB File | 0.0000 |
| | Prepare | | | Save Data | Burst Qty: |
| Channel Move 12 Auto | | | | Save Data | 10s Total |

Figure 5-2. Band 2C Move Time and Aggregate Time

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| 🔤 Keysight Sp | ectrum Analyz | | pt SA | | | | | | | | | |
|---------------------|---------------|--------|------------|--------------------------|-------------------------|-------------------|---------------|----------------------|-------------------------|-----------------------|------|---------------------|
| XI | RF PRESEL | 1 | AC | | | ISE:INT | #Avg Typ | ALIGN AUTO e: RMS | TRAC | Mar 18, 2019 | F | requency |
| | | | | PNO: Fast ↔ FGain:Low | Trig: Free Atten: 10 | | | | DE | | | |
| 10 dB/div Log | Ref 0.0 |)0 dB | m | | | | | | ΔMkr2 | 600.0 s 1.25 dB | | Auto Tune |
| Log | | | | | | | | | | | | Center Freq |
| -10.0 | | | | | | | | | | | 5.67 | '0000000 GHz |
| -20.0 | | | | | | | | | | | | Start Freq |
| -30.0 | | | | | | | | | | | 5.67 | 0000000 GHz |
| -40.0 | | | | | | | | | | | | Stop Freq |
| -50.0 | | | | | | | | | | | 5.67 | 0000000 GHz |
| | | | | | | | | | | | | CF Step |
| -60.0 | | | | | | | | | | | Auto | 1.000000 MHz Man |
| -70.0 | A. L.M. L | ية بال | nd llacat. | ա. հետ են | al contra | L. M. L. Maralita | oto ar kasada | ւե.Աւնտ | 2∆ • • • • • • • • • | 1 <u> </u> | | |
| -80.0 | wakila wala | M | IN PARTY | MANNA M | NIT PROVIDENT | | | AN WALLAND | | a a tha the | | Freq Offset 0 Hz |
| -90.0 | | | | | | | | | | | | |
| | | | | | | | | | | | | Scale Type |
| Center 5. Res BW | | 00 G | Hz | #\/R\A | / 3.0 MHz | | | Sween | S | pan 0 Hz 1001 pts) | Log | Lin |
| MSG | | | | #VDV | - SAV IVITIZ | | | Status | | roor pis) | | |

Figure 5-3. Band 2C Client Beacon Test – Monitoring live spectrum – Elapse time 10 minutes

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6.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMF907B** is in compliance with the DFS requirements for a Client Device without radar detection in accordance with Part 15.407 of the FCC Rules.

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