

EVALUATION REPORT

Applicant Name:

Samsung Electronics Co., Ltd.

Address:

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do, 16677, Korea

Date of Evaluation:

June 15, 2016

Test Site/Location:

HCT CO., LTD., 74,Seoicheon-ro 578beon-gil,Majang-
myeo,Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

FCC ID : A3LSMA910F

APPLICANT : Samsung Electronics Co., Ltd.

Test Data Re-Use Summary

Introduction

FCC ID: A3LSMA910F

Equipment Class(es): DXX, NII, DTS, DSS

Rule Part(s): 2,15

Applicant's Statement: The applicant takes full responsibility that the test data referenced below represents compliance for this FCC ID. This is confirmed by the applicant (Samsung Electronics Co., Ltd.).

Differences

Brief Description: The Bluetooth, WLAN, NFC, ANT+ hardware and software of this device are identical to the implementation in A3LSMA9100. The Product Equality Declaration document 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

(Note: The detail test data can be found in this documents, Appendix A, hereafter)

Category	Spot Check	Verdict
SAR:	2.4 GHz WLAN	Share
	5 GHz WLAN	Share
Unlicensed EMC	Band Edge	Share
	Spurious Emissions	Share

Reference Detail Section

Equipment Class	Reference FCC ID	Folder Test/RF Exposure	Report Title/Section
DXX	A3LSMA9100	ANT+ report	All Sections
	A3LSMA9100	NFC report	All Sections
DSS	A3LSMA9100	Bluetooth Report	All Sections
DTS	A3LSMA9100	WLAN DTS Report	All Sections
	A3LSMA9100	Bluetooth LE Report	All Sections
	A3LSMA9100	SAR report	All Sections
NII	A3LSMA9100	UNII report	All Sections
	A3LSMA9100	SAR report	All Sections
	A3LSMA9100	DFS report	All Sections

Appendix A. The Spot check test data

1. Summary of the spot check Part 15C and Part 15E

Report	Test Item	Ch	Measured Frequency	A3LSMA9100 Result [dBuV/m]		A3LSMA910F Result [dBuV/m]		Gap [dB]	
				Peak	Avg	Peak	Avg	Peak	Avg
ANT+	Fundamental	78	2480 MHz	93.83	-	95.44	-	-1.61	-
	Band Edge	0	2398 MHz	56.86	-0.55	56.83	-0.45	0.03	-0.10
	RSE	0	4804 MHz	47.44	36.5	46.59	35.3	0.85	1.20
			7206 MHz	52.72	41.28	53.29	41.65	-0.57	-0.37
BT	Band Edge	78	2483.5 MHz~ 2500 MHz	65.29	37.79	65.67	38.11	-0.38	-0.32
	RSE	39	4882 MHz	48.78	36.95	47.68	35.45	1.1	1.50
			7323 MHz	56.54	47.66	56.25	47.21	0.29	0.45
BT LE	Band Edge	39	2483.5 MHz~ 2500 MHz	59.2	47.49	58.53	46.62	0.67	0.87
	RSE	19	4882 MHz	47.62	35.45	46.97	34.83	0.65	0.62
			7323 MHz	53.76	41.33	53.6	41.25	0.16	0.08
DTS	Band Edge	11	2483.5 MHz~ 2500 MHz	68.00	50.28	65.51	48.9	2.49	1.38
	RSE	1	4824 MHz	50.07	43.05	48.83	42	1.24	1.05
			7236 MHz	-	-	-	-	-	-
NFC	Fundamental	-	13.56 MHz						
UNII (20MHz)	Band Edge	100	5350 MHz~ 5460 MHz	59.59	47.74	58.61	47.63	0.98	0.11
	RSE	165	11650 MHz	59.72	48.48	58.05	47.05	1.67	1.43
UNII (40MHz)	Band Edge	38	4500 MHz~ 5150 MHz	59.59	47.53	61.52	47.17	-1.93	0.36
	RSE	159	11590 MHz	58.75	47.7	57.97	46.55	0.78	1.15
UNII (80MHz)	Band Edge	106	5460 MHz~ 5470 MHz	68.67		65.89		2.78	
	RSE	155	11550 MHz	58.05	46.4	57.54	45.79	0.51	0.61

2. Subject: Summary of the spot check for SAR

To determine data reuse, we did spot check as below table.

Band	A3LSMA9100 Result Measured 1g SAR (W/kg)	A3LSMA910F Result Measured 1g SAR (W/kg)	Deviation
2.4GHZ WLAN	0.77	0.751	-2.5%
5GHz WLAN	0.721	0.629	-12.8%

Note: Per FCC guidance, the unlicensed transmitter was spot checked for major band to demonstrate compliance.