

EVALUATION REPORT

Applicant Name:
SAMSUNG Electronics Co., Ltd.**Address:**
129, Samsung-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Rep. of Korea**Date of Issue:**

March 11, 2019

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

FCC ID:	A3LSMT510
IC:	649E-SMT510
APPLICANT:	SAMSUNG Electronics Co., Ltd.

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

Rule Part(s) : 15

Application's Statement : The applicant takes full responsibility that the test data referenced below represents compliance for this FCC ID.

Differences
Brief Description : Bluetooth & WLAN hardware and software of this device are identical to the implementation in A3LSMT515. 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.

Test Reference : KDB 484596 D01 Reference Test Data v01

The detail test data can be found in this documents, Appendix A.

Category	Spot Check	Verdict
Unlicensed EMC	Band Edge	Share
	Spurious Emissions	Share

Reference Detail Section

Reference FCC ID	Equipment Class	Report Title	Section
A3LSMT515	DSS	Bluetooth Report	All sections
	DTS	WLAN DTS Report	All sections
		BT LE Report	All sections
	UNII	UNII Test Report	All sections
	DXX	ANT+ Report	All sections



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Engineer of Telecommunication testing center



Approved by : Kwon Jeong

Manager of Telecommunication testing center

Appendix A. The Spot check test data

1. Summary of the spot check for Unlicensed EMC

	Test Item	Mod / Channel	Measured Frequency	SM-T515 Result [dBuV/m]		SM-T510 Result [dBuV/m]		Deviation (dB)	
				Average	Peak	Average	Peak	Average	Peak
BT	Band Edge	3DH5 / ch78	Fundamental	-	102.81	-	104.04	-	-1.23
		Delta-marker method	Delta-Marker	-	49.80	-	49.27	-	0.53
			2 485.5 MHz ~ 2 500 MHz	-	60.88	-	61.78	-	-0.90
	RSE	DH5	7 440 MHz	41.69	55.66	42.01	55.45	-0.32	0.21
BT LE	Band Edge	2M / 37bytes	2 483.5 MHz ~ 2 500 MHz	48.64	65.84	49.08	67.28	-0.44	-1.44
	RSE	2M / 37bytes	7440 MHz	48.26	55.75	48.67	56.22	-0.41	-0.47
DTS	Band Edge	g / ch10	2 483.5 MHz ~ 2 500 MHz	51.88	65.30	50.08	64.39	1.80	0.91
		n / ch 13		51.59	66.23	51.16	66.41	0.43	-0.18
	RSE	b / ch6	4 874 MHz	48.55	53.88	47.63	54.00	0.92	-0.12
UNII	Band Edge	a / ch 100	5 460 ~ 5 470 MHz	-	64.41	-	61.25	-	3.16
		n / ch 100	5 460 ~ 5 470 MHz	-	64.37	-	61.33	-	3.04
	RSE	a / ch 36	15 540 MHz	50.91	65.97	47.88	63.26	3.03	2.71
ANT+	Fundamental	Period 128 / ch 39	2 441 MHz	65.55	97.43	66.25	98.13	-0.70	-0.70
	Band Edge	Period 128 / ch 0	2 310 ~ 2 400 MHz	32.37	64.25	31.63	63.51	0.74	0.74
	RSE	Period 128 / ch 78	7 440 MHz	25.11	56.99	25.22	57.10	-0.11	-0.11

2. List of test equipment for EMC

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	04/06/2017	Biennial	760
Schwarzbeck	VULB 9168 / Hybrid Antenna	08/09/2018	Annual	3368
Schwarzbeck	BBHA 9120D / Horn Antenna	06/30/2017	Biennial	1300
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 40 GHz) / Spectrum Analyzer	07/24/2018	Annual	100843
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	01/03/2019	Annual	F6
Wainwright Instruments	WHFX7.0/18G-8SS / High Pass Filter	05/09/2018	Annual	29
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/29/2018	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2019	Annual	2
Weinschel	2-3 / Attenuator (3 dB)	10/10/2018	Annual	BR0617
H+S	5910-N-50-010 / Attenuator(10 dB)	11/08/2018	Annual	NONE
CERNEX	CBLU1183540B-01 / Power Amplifier	12/21/2018	Annual	25540
CERNEX	CBL06185030 / Power Amplifier	03/28/2018	Annual	28550
CERNEX	CBL18265035 / Power Amplifier	01/03/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/29/2018	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/27/2018	Annual	3000C000276