EMC TEST REPORT

Project No.	LBE20190601	Issue No.	0	
	Name of organization	Samsung Electronics Co., Ltd.		
Applicant	Address	(Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea		
	Date of application	April 05, 2019		
	Type of device	 ✓ All other Receivers subject to part15 ✓ Class B Personal Computers and peripherals ✓ Other Class B digital devices and peripherals ✓ FM Broadcast Receiver 		
	Equipment authorization	□ Certification □ Supplier's Declaration of Conformity		
	FCC ID	A3LSMA205S		
EUT	Kind of product	Mobile Phone		
	Model No.	SM-A205S		
	Variant Model No.	Refer to clause 4.6		
	Manufacturer	Sammsung Electronics Vietnam Thai Nguyen Co., Ltd. Yen Binh Industrial Park, Pho Yen Town, Thai Nguyen Province, Vietnam		
Applied Sta	andards	47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014		
Test Period	d	April 19, 2019 ~ April 22, 2019		
Issue date		April 23, 2019		
The equip	: Complied oment under test has found the attached test result for	•	with the applied standards.	
Tested by	: Eun-Kyung Oh	Review	ved by : Young-Hun Kim	
I	2/6		Y. L. KIM	

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Global CS Center of Samsung Electronics Co., Ltd.

(Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea

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Mobile Phone: SM-A205S

1. Report Information

1.1 Revision history

No.	Revised detailed information
Issue 0	There are no revisions and this version is basic test report.

1.2 RSE test report no.

No.	Remark
4788869688-E1	The cellular receiver mode refers to the radiated spurious emissions test report.

2. Summary of test results

2.1 Emission

The EUT has been tested according to the following specifications:

Applied	Test type	Applied standard	Result
	Conducted Disturbance (Mains port)	47 CFR Part 15 Subpart B / ANSI C63.4-2014	Complied
	Radiated Disturbance	(Class B)	Complied

3. General Information

3.1 Test facility

The Global CS Center is located on Samsung Electronics Co., Ltd. at (Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea. All testing are performed in Semi-anechoic chambers conforming to the site attenuation characteristics defined by ANSI C63.4, CISPR 32, CISPR 16-1-4 and Shielded rooms. And all antennas are properly calibrated using ANSI C63.5:2017.

The Global CS Center is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:2005.

Mobile Phone: SM-A205S

4. Test Setup configuration

4.1 Test Peripherals

The cables used for these peripherals are either permanently attached by the peripheral manufacturer or coupled with an assigned cable as defined below.

The following is a listing of the EUT and peripherals utilized during the performance of EMC test:

Mark	Description	Model No.	Serial No.	Manufacturer / Trademark	FCC ID
Α	Mobile Phone	SM-A205S	-	SAMSUNG	A3LSMA205S
В	Battery	EB-BA505ABU	-	SAMSUNG	-
С	Headset	EHS64AVFBE	-	SAMSUNG	-
D	Data Cable	EP-DR140ABE	-	SAMSUNG	-
Е	Micro SD Card	64GB	-	SAMSUNG	-
F	Laptop	. I SUUUGAASU	1CHRYM2	Dell	-
F	Computer		D3HRYM2	Dell	-
G	Laptop AC Adapter	LA65NM130	5D77	Dell	-
G			5B3C	Dell	-
H M	Mayee	AA-SM7PCPB	CN57BA5903634ADV 8JK281082	SAMSUNG	-
	Mouse	Mouse AA-SM/FCFB	CNBA5903634ADV8J 31O3050	SAMSUNG	-
I	OTG Gender	EE-UG970	-	SAMSUNG	
	Router	DIR-806A	RF0F1D5000688	D-Link	-
J			RF0F1D8011504	D-Link	-
K	Travel Adapter	EP-TA200	R37M17T23V1SE3	SAMSUNG	-

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4.2 EUT operating mode

To achieve compliance applied standard specification, the following mode(s) were made during compliance testing:

4.2.1 Conducted Emission

No.	Operating mode
1	Camera (rear) + Charging (w/ TA) + Cellular receiver (LTE 5 Center Frequency) + FM (Low Ch.)
2	Camera (front) + Charging (w/ TA) + FM (Mid Ch.)
3	Charging (w/ TA) + FM (High Ch.)
4	Video + Audio playback from internal memory data + Charging (w/ TA)
5	USB Data Communication with PC (from external memory data)

4.2.2 Radiated Emission

No.	Operating mode
1	Camera (rear) + Charging (w/ TA) + FM (Low Ch.)
2	Camera (front) + FM (Mid Ch.)
3	FM (High Ch.)
4	Video + Audio playback from internal memory data
5	USB Data Communication with PC (from external memory data)

4.3 Details of Sampling

Customer selected, single unit.

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4.4 Used cable description

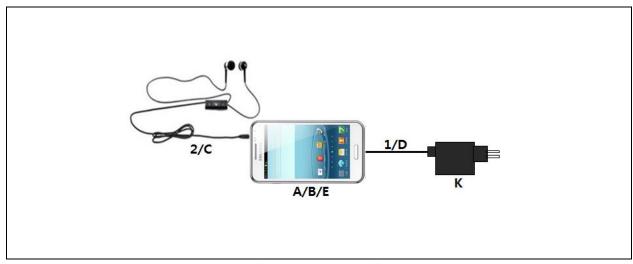
The EUT is configured, installed, arranged and operated in a manner consistent with typical applications. Interface cables/loads/devices are connected to at least one of each type of interface port of the EUT, and where practical, each cable shall be terminated in a device typical of actual usage. The type(s) of interconnecting cables to be used and the interface port (of the EUT) to which these were connected:

No.	Connected cable	Length [m]	Shielded [Y/N]	Note
1	Data Cable	1.2	Y	From EUT to Laptop Computer
2	Headset	1.2	N	For EUT
3	Power	1.8	N	For Laptop Computer to Laptop AC Adapter
4	Power	1.5	N	For Laptop AC Adapter
5	LAN	1.5	Y	From Laptop Computer to Router
6	USB	0.8	N	From Laptop Computer to Router for DC Power
7	USB	1.8	N	From OTG Gender to Mouse

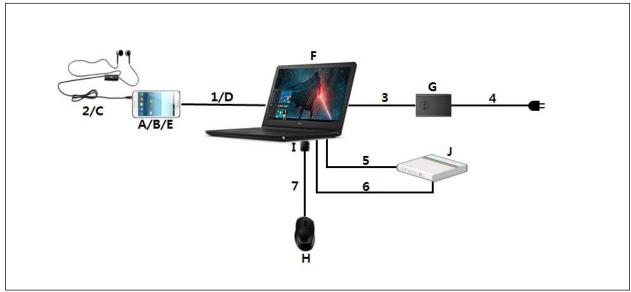
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4.5 Test arrangement

4.5.1 Conducted Emission

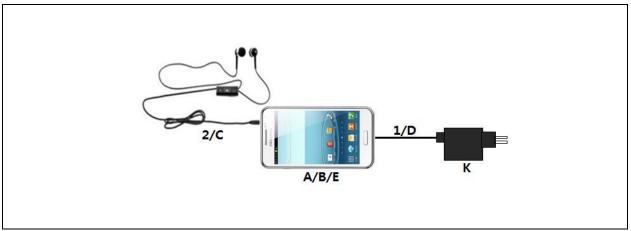


[Mode 1 - 4]

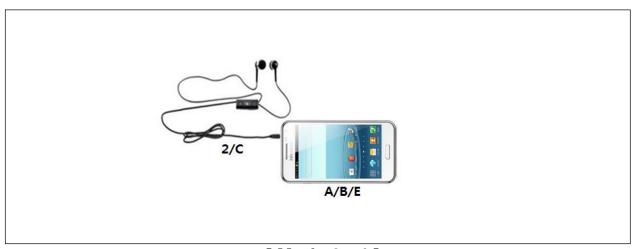


[Mode 5]

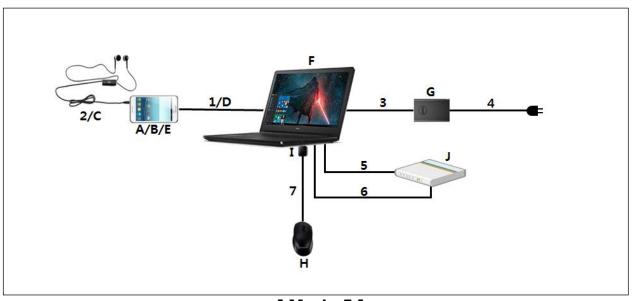
4.5.2 Radiated Emission



[Mode 1]



[Mode 2 - 4]



[Mode 5]

Mobile Phone: SM-A205S

4.6 EUT Description

The EUT is a bar type Mobile Phone which can operate on GSM900/1800/1900, WCDMA FDD1/2/5, LTE FDD1/2/3/5/7/8/17, LTE TDD38/40/41 and Incorporates a camera, Bluetooth, Wi-Fi, FM Radio, GNSS, NFC, T-DMB, Audio and Video.

4.6.1 The variant models

- None

4.7 EUT Frequencies

The highest frequencies (Generated and used)	Frequency [MHz]	
LTE TDD41	2 690	

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4.8 Test configuration and condition

The system was configured for testing in a typical fashion that a customer would normally use. Cables were attached to each of the available I/O Ports. Where applicable, peripherals were attached to the I/O cables. All the external I/O ports are exercised, as well as internal and the external SD card, by writing and reading arbitrary data or charging with TA.

The EUT was investigated in three orientations and the worst case orientation is reported.

RX mode(881.5 MHz) testing was performed with the LTE FDD5 RX Test mode at center frequency. All licensed communication (881.5 MHz) RX mode, WCDMA/LTE, test results are not significantly different.

The FM radio mode radiated testing was performed with the Low/Mid/High channel.

The video and music were repetitively played connected to the earphone.

The camera of the EUT was operated continuously.

Power source for the EUT operating was supplied by CVCF made by the Pacific Corp.

- Test Voltage : AC 120 V, 60 Hz

4.9 Measurement uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus: (According to CISPR 16-4-2 and UKAS M3003)

4.9.1 Emission

Test type	Measurement uncertainty (C.L. 95 %, k = 2)	
Conducted disturbance	AC Mains	3.52 dB
Radiated Disturbance	Horizontal	4.99 dB
(Below 1 GHz)	Vertical	4.90 dB
Radiated Disturbance	Horizontal	5.33 dB
(Above 1 GHz)	Vertical	5.32 dB

Mobile Phone: SM-A205S

5. Results of individual test

5.1 Conducted disturbance

The EUT is connected to a LISN via travel adapter. If the EUT is connected to the Laptop Computer USB port, the Laptop AC adapter is connected to a LISN.

Both conducted lines are measured in Quasi-Peak and CISPR-Average mode, including the worst-case data points for each tested configuration. The EUT measured in accordance with the methods described in standards.

Limits for conducted disturbance at the mains ports of Class B ITE

Frequency range Limits [MHz]	Resolution Bandwidth	Limits [dB(μV)]		
	[kHz]	Quasi-peak	Average	
0,15 to 0,50	9	66 to 56	56 to 46	
0,50 to 5	9	56	46	
5 to 30	9	60	50	

NOTE 1 The lower limit shall apply at the transition frequency.

NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

5.1.1 Test instrumentation

					Calibration	
EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Date	Interval (Month)
E5I-002	Universal Radio Communicator	CMU200	R&S	100612	2018-08-31	12
E5I-017	EMI Test Receiver	ESU8	R&S	100483	2019-01-16	12
E5I-127	LISN	ENV216	R&S	102061	2018-07-23	12
-	Test software	EMC32	R&S	Ver 9.26.01	-	-

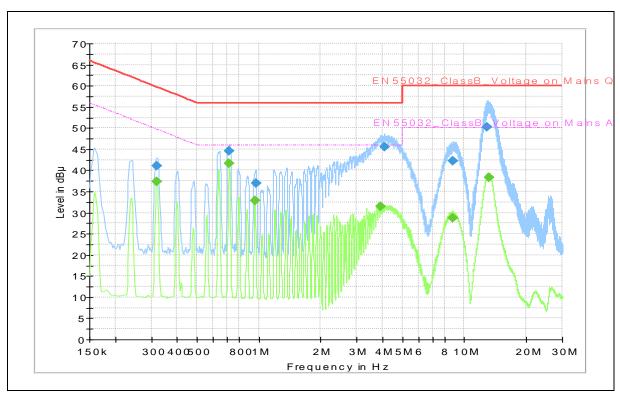
5.1.2 Temperature and humidity condition

Test date	2019-04-22	Test engineer	Eun-Kyung Oh		
	Ambient temperature	(22.7 ~ 23.0) ℃	Limit (15.0 to 35.0) ℃		
Climate condition	Relative humidity	(43.0 ~ 43.3) % R.H.	Limit (25.0 to 75.0) % R.H.		
	Atmospheric pressure	(100.7 ~ 101.0) kPa	Limit (86.0 to 106.0) kPa		
Test place	Shield Room (SR8)				

Mobile Phone: SM-A205S

5.1.3 Test results

☐ Operating Mode 1: AC Mains



Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.319		37.4	49.7	12.3	L1	10.1
0.319	41.1		59.7	18.6	L1	10.1
0.717		41.6	46.0	4.4	L1	10.1
0.719	44.5		56.0	11.5	L1	10.1
0.958		32.8	46.0	13.2	L1	10.0
0.969	36.9		56.0	19.1	N	10.0
3.919		31.5	46.0	14.5	L1	10.0
4.108	45.5		56.0	10.5	L1	10.0
8.770		28.8	50.0	21.2	L1	10.1
8.840	42.2		60.0	17.8	L1	10.1
12.923	50.2		60.0	9.8	L1	10.3
13.193		38.3	50.0	11.7	N	10.4

Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)

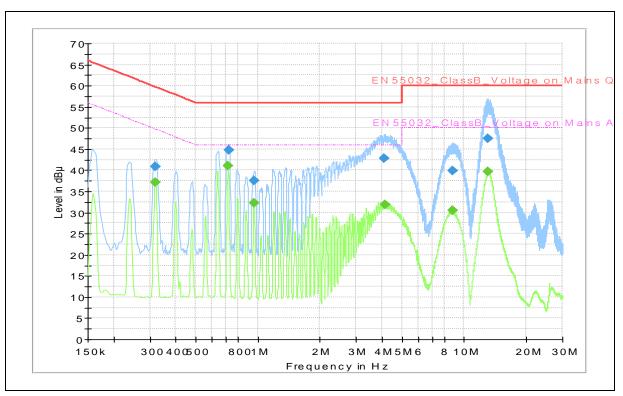
Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor

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☐ Operating Mode 2: AC Mains



Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

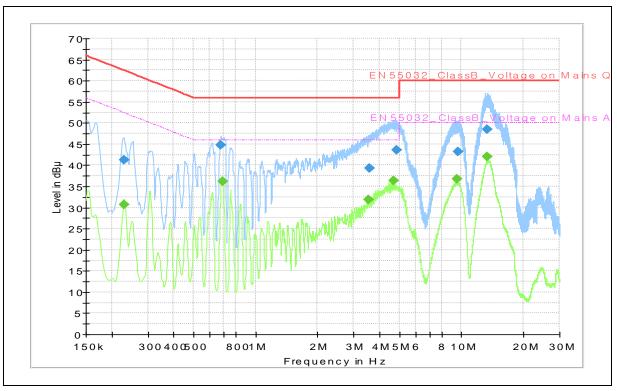
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.319		37.1	49.7	12.6	L1	10.1
0.319	40.9		59.7	18.8	L1	10.1
0.717		41.0	46.0	5.0	L1	10.1
0.722	44.7		56.0	11.3	L1	10.1
0.958		32.3	46.0	13.7	L1	10.0
0.960	37.6		56.0	18.4	N	10.0
4.099	42.9		56.0	13.1	N	9.9
4.146		31.9	46.0	14.1	L1	10.0
8.799		30.5	50.0	19.5	L1	10.1
8.828	39.8		60.0	20.2	L1	10.1
13.049	47.6		60.0	12.4	N	10.4
13.083		39.7	50.0	10.3	N	10.4

Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)

Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor

☐ Operating Mode 3: AC Mains



Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

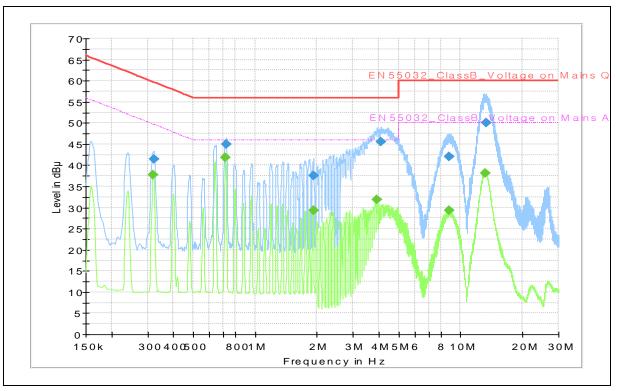
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.229	41.2		62.5	21.3	N	9.9
0.231		30.6	52.4	21.8	L1	9.9
0.681	44.8		56.0	11.2	L1	10.2
0.692		36.2	46.0	9.8	L1	10.1
3.548		31.9	46.0	14.1	L1	10.0
3.568	39.3		56.0	16.7	N	9.9
4.670		36.4	46.0	9.6	N	9.9
4.837	43.7		56.0	12.3	N	9.9
9.546		36.7	50.0	13.3	N	10.2
9.679	43.3		60.0	16.7	N	10.2
13.391		42.1	50.0	7.9	N	10.4
13.394	48.5		60.0	11.5	N	10.4

Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)

Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor

☐ Operating Mode 4: AC Mains



Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

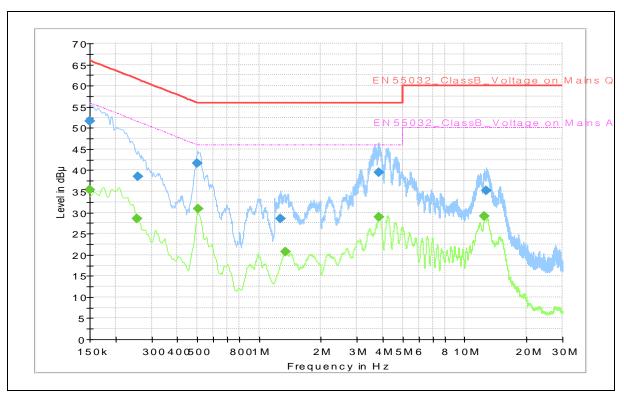
QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.319		37.6	49.7	12.1	L1	10.1
0.321	41.5		59.7	18.2	L1	10.1
0.717		41.7	46.0	4.3	L1	10.1
0.724	45.1		56.0	10.9	L1	10.1
1.921		29.4	46.0	16.6	L1	10.0
1.932	37.6		56.0	18.4	N	9.9
3.923		32.0	46.0	14.0	L1	10.0
4.115	45.6		56.0	10.4	L1	10.0
8.826		29.4	50.0	20.6	L1	10.1
8.849	42.1		60.0	17.9	L1	10.1
13.193		38.1	50.0	11.9	L1	10.3
13.403	50.0		60.0	10.0	L1	10.3

Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss) Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor

☐ Operating Mode 5: AC Mains



Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150	51.6		66.0	14.4	N	9.7
0.150		35.4	56.0	20.6	L1	9.8
0.256		28.6	51.6	23.0	L1	9.7
0.258	38.6		61.5	22.9	N	9.7
0.501	41.6		56.0	14.4	L1	10.0
0.506		30.8	46.0	15.2	L1	10.0
1.277	28.5		56.0	27.5	L1	9.8
1.347		20.7	46.0	25.3	N	9.7
3.838		28.9	46.0	17.1	N	9.7
3.845	39.4		56.0	16.6	N	9.7
12.521		29.2	50.0	20.8	L1	9.9
12.800	35.2		60.0	24.8	L1	9.9

Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss) Margin (QP and/or CAV) = Limit - Level (QP and/or CAV)

QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor

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5.2 Radiated disturbance

The following data lists the significant emission frequencies, measured levels, correction factors (for antenna and cables), orientation of table, polarization and height of antenna, the corrected reading, the limit, and the amount of margin.

Peak measurements were made over the changeable frequency range 30 MHz to 1 GHz at a measurement distance of 10 m for the following antenna and turntable arrangements:

Antenna Height [cm]	Antenna Polarisation	Resolution Bandwidth [kHz]	Video Bandwidth [kHz]	Turntable position [degrees]
100 ~ 400	Horizontal, Vertical	120	300	Continuous

Measurements within 6 dB of the limit were then maximized by adjusting turntable position. Final measurements were made using quasi-peak detector.

Peak/CISPR-Average measurements were made over the changeable frequency range 1 GHz to 40 GHz or 5th harmonics of the highest frequency generated or used in the device or on which the device operate or tunes at a measurement distance of 3 m for the following antenna and turntable arrangements. The measurements above 1 GHz were performed with the bore-sighting antenna aimed at the EUT.

Antenna Height [cm]	Antenna Polarisation	Resolution Bandwidth [MHz]	Video Bandwidth [MHz]	Turntable position
100 ~ 400	Horizontal, Vertical	1	3	Continuous

Measurements within 6 dB of the limit were then maximized by adjusting turntable position. Final measurements were made using peak and CISPR-average detectors.

Limits for radiated disturbance of Class B ITE at a measuring distance of 3 m and 10 m

Frequency range Limits	Field Strength				
[MHz]	3 m [μV/m]	3 m [dB(μV/m)]	10 m [dB(μV/m)]		
30 to 88	100	40.0	29.5		
88 to 216	150	43.5	33.0		
216 to 960	200	46.0	35.5		
Above 960	500	54.0	43.5		

Results checked manually; and points close to the limit line were re-measured.

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5.2.1 Test instrumentation

					Calibration	
EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Date	Interval (Month)
E5I-002	Universal Radio Communicator	CMU200	R&S	100612	2018-08-31	12
E5I-016	EMI Test Receiver	ESU8	R&S	100482	2018-06-08	12
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2019-01-30	12
E5I-149	Horn Antenna	HF907	R&S	102525	2018-06-15	24
E5I-039	Signal Conditioning Unit	SCU-18	R&S	10211	2019-01-23	12
E5I-120	BiLog Antenna	CBL6112D	TESEQ	36997	2018-04-23	24
E5I-072	BiLog Antenna	CBL6112D	TESEQ	36009	2018-04-23	24
E5I-075	Preamplifier	310N	SONOMA	332018	2018-05-25	12
E5I-076	Preamplifier	310N	SONOMA	332019	2018-05-25	12
-	Test software	EP7RE	TOYO	Ver 5.8.2	-	-
-	Test software	EMC32	R&S	Ver 9.25.00	-	-

5.2.2 Temperature and humidity condition

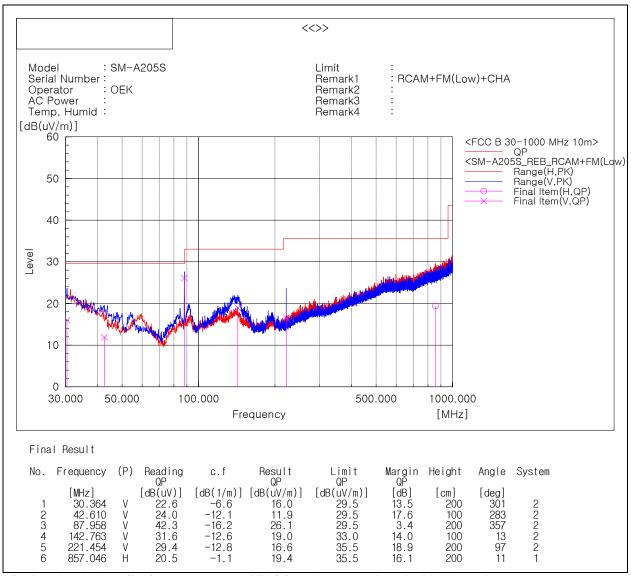
Test date	Test date 2019-04-19		Eun-Kyung Oh		
	Ambient temperature	(22.9 ~ 23.2) ℃	Limit (15.0 to 35.0) $^{\circ}{\mathbb{C}}$		
Climate condition	Relative humidity	(44.3 ~ 44.6) % R.H.	Limit (25.0 to 75.0) % R.H.		
	Atmospheric pressure (100.8 ~ 101.1) kPa Limit (86.0 to 106.0) kPa				
Test place	Semi-Anechoic Chamber (SAC4)				

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5.2.3 Test results

□ Operating Mode 1

- Frequencies below 1 GHz



^{*} Radiated emissions (Rx frequency 87.958 MHz) from the transceiver shall be ignored

Note1) Receiving antenna polarization : Horizontal, Vertical

Test Distance: 10 m, Antenna Height: 1 to 4 meters

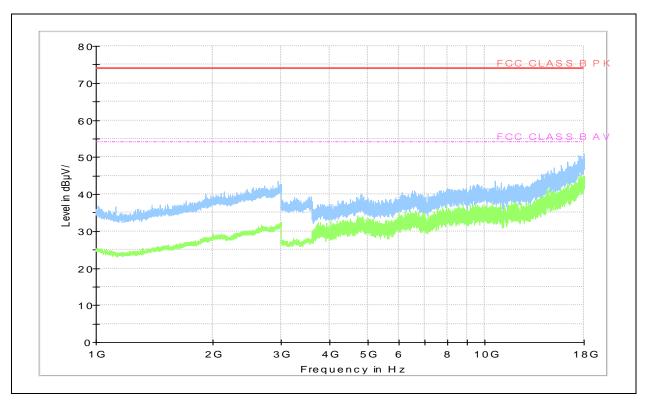
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

QP = Quasi-Peak, c.f = Correction Factor

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- Frequencies above 1 GHz



Note 1) Receiving antenna polarization: Horizontal, Vertical

Test Distance: 3 m, Antenna Height: 1 to 4 meters

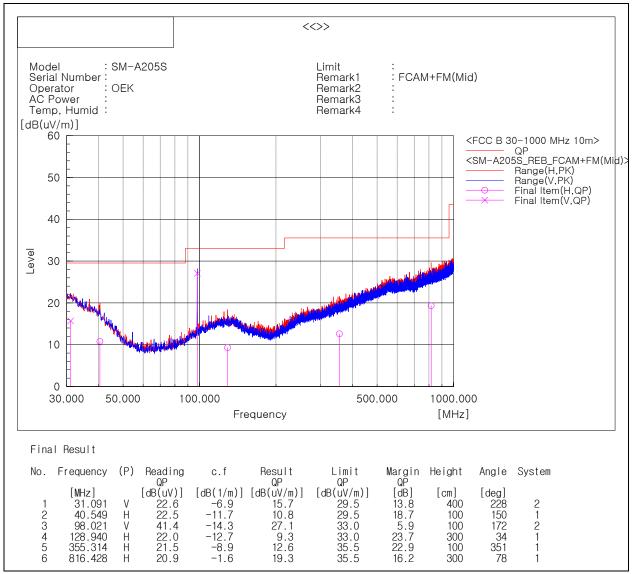
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

☐ Operating Mode 2

- Frequencies below 1 GHz



^{*} Radiated emissions (Rx frequency 98.021 MHz) from the transceiver shall be ignored

Note1) Receiving antenna polarization : Horizontal, Vertical

Test Distance: 10 m, Antenna Height: 1 to 4 meters

Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

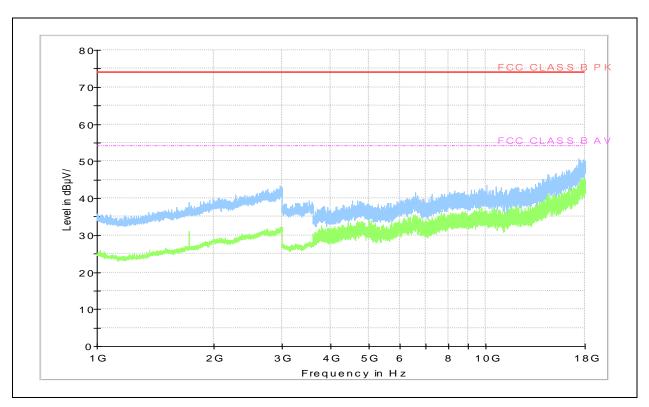
Margin (QP) = Limit - Level (QP)

QP = Quasi-Peak, c.f = Correction Factor

.

Mobile Phone: SM-A205S

- Frequencies above 1 GHz



Note 1) Receiving antenna polarization: Horizontal, Vertical

Test Distance: 3 m, Antenna Height: 1 to 4 meters

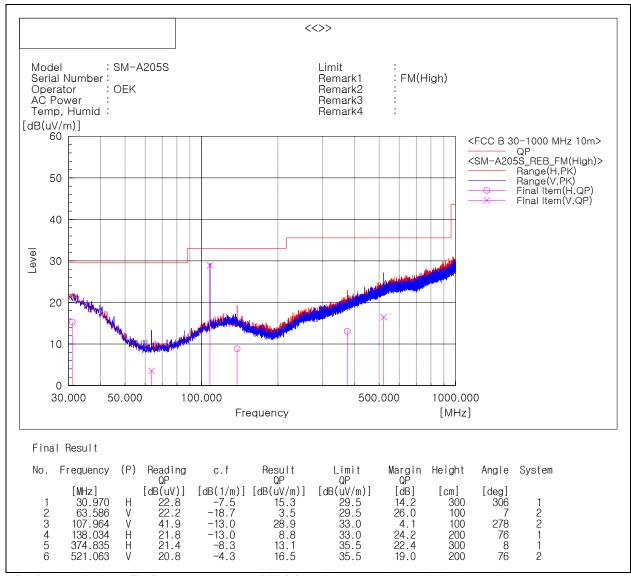
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

□ Operating Mode 3

- Frequencies below 1 GHz



^{*} Radiated emissions (Rx frequency 107.964 MHz) from the transceiver shall be ignored

Note1) Receiving antenna polarization: Horizontal, Vertical

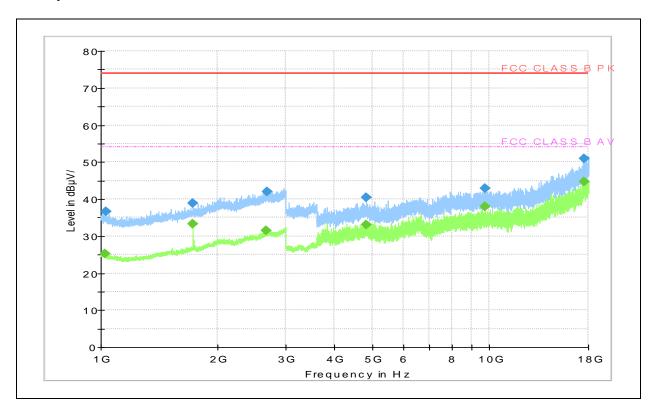
Test Distance: 10 m, Antenna Height: 1 to 4 meters

Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

QP = Quasi-Peak, c.f = Correction Factor

- Frequencies above 1 GHz



Frequency (MHz)	PK (dBµV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 025.600		25.3	54.0	28.7	100.0	٧	0.0	6.8
1 028.400	36.7		74.0	37.3	100.0	٧	332.0	6.8
1 722.000	38.9		74.0	35.1	100.0	I	297.0	10.8
1 722.400		33.2	54.0	20.8	100.0	Н	297.0	10.8
2 671.200		31.4	54.0	22.6	100.0	٧	291.0	15.5
2 674.000	41.9		74.0	32.1	100.0	Н	315.0	15.5
4 818.000		33.0	54.0	21.0	100.0	V	135.0	5.8
4 825.500	40.4		74.0	33.6	100.0	I	195.0	5.8
9 777.500		38.1	54.0	15.9	100.0	I	141.0	15.8
9 777.500	42.9		74.0	31.1	100.0	Н	141.0	15.8
17 595.500		44.8	54.0	9.2	100.0	Н	1.0	34.6
17 598.500	50.8		74.0	23.2	100.0	V	100.0	34.6

Note 1) Receiving antenna polarization: Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 4 meters

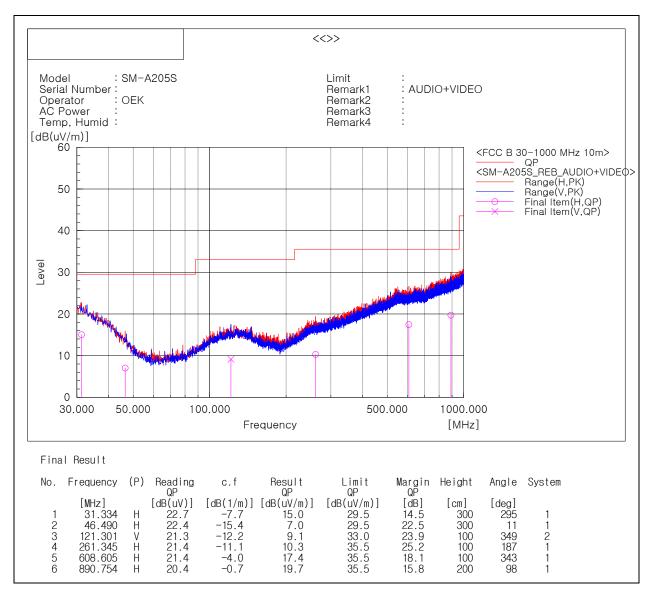
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

□ Operating Mode 4

- Frequencies below 1 GHz



Note1) Receiving antenna polarization: Horizontal, Vertical

Test Distance: 10 m, Antenna Height: 1 to 4 meters

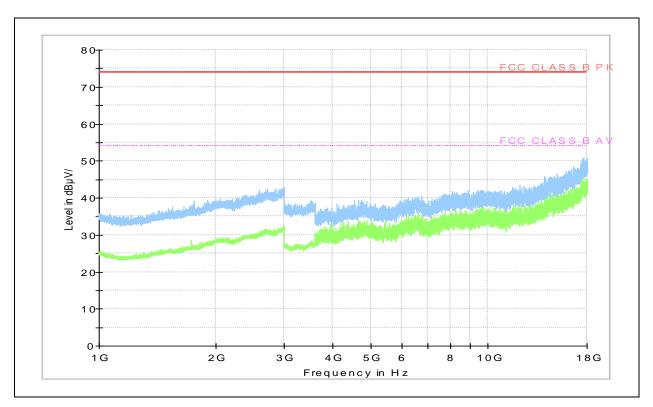
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

QP = Quasi-Peak, c.f = Correction Factor

Mobile Phone: SM-A205S

- Frequencies above 1 GHz



Note 1) Receiving antenna polarization: Horizontal, Vertical

Test Distance: 3 m, Antenna Height: 1 to 4 meters

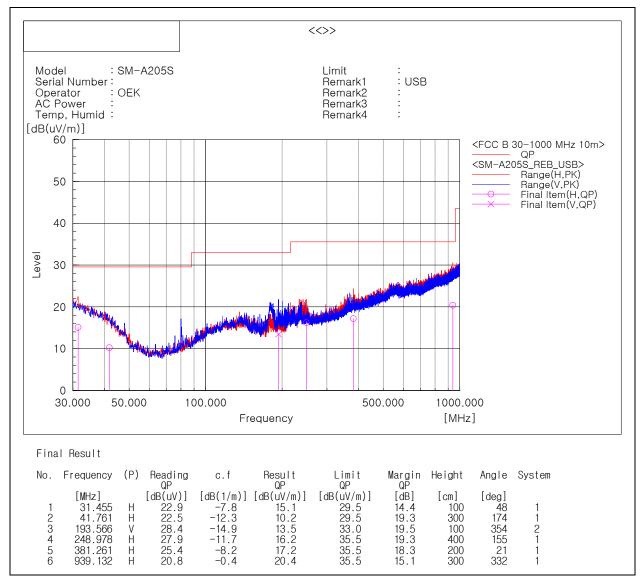
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

☐ Operating Mode 5

- Frequencies below 1 GHz



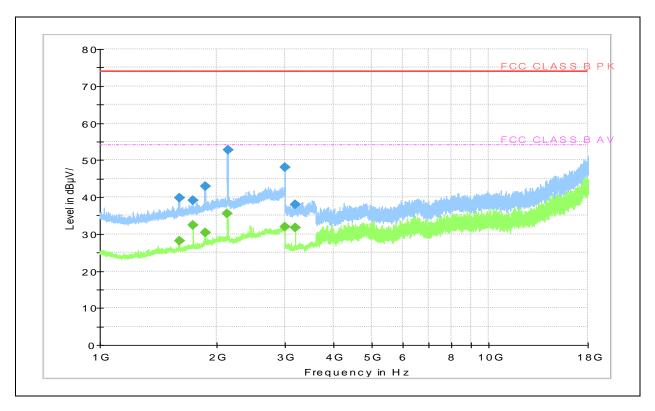
Note1) Receiving antenna polarization : Horizontal, Vertical Test Distance : 10 m, Antenna Height : 1 to 4 meters

Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

QP = Quasi-Peak, c.f = Correction Factor

- Frequencies above 1 GHz



Frequency (MHz)	PK (dBµV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 599.200	39.7		74.0	34.3	100.0	٧	0.0	9.8
1 599.200		28.2	54.0	25.8	100.0	٧	0.0	9.8
1 731.600	39.1		74.0	34.9	100.0	٧	11.0	10.8
1 732.000		32.4	54.0	21.6	100.0	٧	11.0	10.8
1 862.400		30.5	54.0	23.5	100.0	٧	102.0	11.7
1 866.000	42.9		74.0	31.1	100.0	٧	123.0	11.7
2 125.600		35.4	54.0	18.6	100.0	٧	338.0	12.9
2 131.200	52.8		74.0	21.2	100.0	٧	346.0	12.9
2 990.000		32.0	54.0	22.0	100.0	٧	313.0	16.7
2 990.000	48.0		74.0	26.0	100.0	V	313.0	16.7
3 183.500		31.7	54.0	22.3	100.0	٧	282.0	0.9
3 183.500	38.0		74.0	36.0	100.0	V	282.0	0.9

Note 1) Receiving antenna polarization: Horizontal, Vertical

Test Distance: 3 m, Antenna Height: 1 to 4 meters

Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor