Project No.	LBE20200209	Issue No.	0		
	Name of organization	Samsung Elec	tronics Co., Ltd.		
Applicant	Address	(Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea			
	Date of application	February 19, 2020			
EUT	Type of device	Class B Perso	eivers subject to part15 onal Computers and peripherals 3 digital devices and peripherals t Receiver		
	Equipment authorization	Certification	Supplier's Declaration of Conformity		
	FCC ID	A3LSMA415FN			
	Kind of product	Mobile Phone			
	Model No.	SM-A415F/DSN			
	Variant Model No.	Refer to clause 4.6			
	Manufacturer	Samsung Electronics Vietnam Thai Nguyen Co., Ltd. YEN BINH 1 INDUSTRIAL PARK, DONG TIEN WARD, PHO YEN DISTRICT, THAI NGUYEN PROVINCE, VIET NAM.			
Applied St	andards	47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014			
Test Perio	d	February 20, 2020 ~ February 25, 2020			
Issue date		February 25, 2020			
The equi	: : Complied pment under test has found the attached test result for		with the applied standards.		
Tested by : Eun-Kyung Oh Reviewed by : Sung-Wook Choi					
	Sn MM	b S.W. Chol			
T I I I II	in this report only apply to the	tested sample. Th	is report must not be reproduced, except in fu		

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

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1. Report Information

1.1 Revision history

No.	Date of Issue	Revised detailed information	
Issue 0	25 February 2020	There are no revisions and this version is basic test report.	

※ Remark

Compliance with Part 15B requirements for the receiver part of the licensed transmitter (equipment code CXX) is covered by other 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 an ISO/IEC 17025:2005 accredited testing laboratory by the National Radio Research Agency with designation No. KR0004. for EMC testing.

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	
A	Mobile Phone	SM-A415F/DSN	-	SAMSUNG	A3LSMA415FN	
В	Battery	EB-BA415ABY		SAMSUNG	-	
С	Headset	EHS61ASFBE	-	SAMSUNG	-	
D	Data Cable	EP-DR140ABE	-	SAMSUNG	-	
E	microSD Card	64GB	-	SAMSUNG	-	
F	Laptop Computer	Latitude5580	1CHRYM2	Dell	DoC	
Г		Latitude5580	D3HRYM2	Dell	DoC	
G	Laptop AC Adapter	LA65NM130	5D77	Dell	DoC	
G		LA65NM130	5B3C	Dell	DoC	
н	Mouse	Mouse AA-SM7PCPB		CN57BA5903634AD V8JK281082	SAMSUNG	DoC
			CNBA5903634ADV8 J31O3050	SAMSUNG	DoC	
	Router	Router DIR-806A	RF0F1D5000688	D-Link	DoC	
			RF0F1D8011504	D-Link	DoC	
J	Travel Adapter	EP-TA200	R37M9N4K3F1SE3	SAMSUNG	-	

4.2 EUT operating mode

To achieve compliance applied standard specification including CXX, JAB and JBP requirement, 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 (GSM850 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.

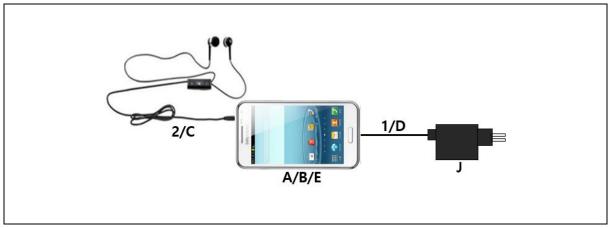
4.4 Used cable description

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:

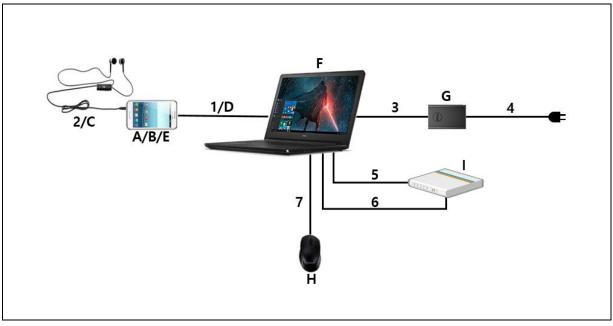
No.	Connected cable	Length [m]	Shielded [Y/N]	Note	
1	Data Cable	0.8	Y	From EUT to Laptop Computer	
2	Headset	1.6	N	For EUT	
3	Power	1.8	N	From Laptop Computer to AC Adapter	
4	Power	1.5	N	For Laptop AC Adapter	
5	LAN	1.5	N	From Laptop Computer to Router	
6	USB	0.8	N	From Laptop Computer to Router for DC Power	
7	USB	1.8	N	From Laptop Computer to Mouse	

4.5 Test arrangement

4.5.1 Conducted Emission

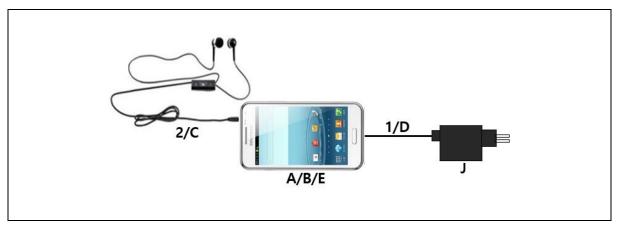


[Mode 1 - 4]

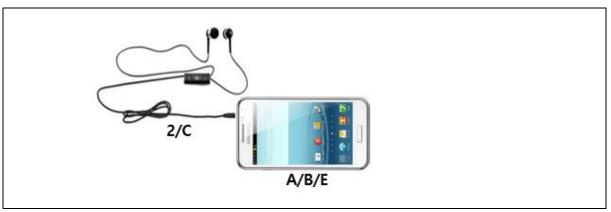


[Mode 5]

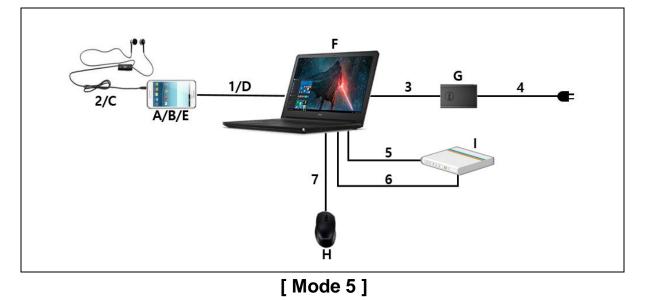
4.5.2 Radiated Emission



[Mode 1]







4.6 EUT Description

The EUT is a bar type mobile phone which can operate on GSM850/900/1800/1900, WCDMA FDD1/2/5/8, LTE FDD1/3/5/7/8/20/28, TDD38/40/41 bands and incorporates a Camera, Bluetooth, Wi-Fi, FM Radio, NFC, GNSS, Audio and Video.

4.6.1 The variant models - NONE

4.7 EUT Frequencies

The highest frequencies (Generated and used)	Frequency [MHz]	
Wi-Fi	5 825	

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(850MHz) testing was performed with the GSM850 RX Test mode at center frequency. All licensed communication (850MHz) RX mode, GSM/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 audio were repetitively played with earphone connected.

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)

Test type	Measurement uncertainty (C.L. 95 %, k = 2)	
Conducted disturbance	AC Mains	2.83 dB
Radiated Disturbance	Horizontal	4.99 dB
(30 MHz \sim 1 GHz)	Vertical	4.90 dB
Radiated Disturbance	Horizontal	4.96 dB
(1 GHz \sim 6 GHz)	Vertical	4.95 dB
Radiated Disturbance	Horizontal	5.13 dB
(6 GHz ~ 18 GHz)	Vertical	5.12 dB

4.9.1 Emission

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.

Frequency range Limits	Resolution Bandwidth	Limits [dB(µV)]			
[MHz]	[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.					

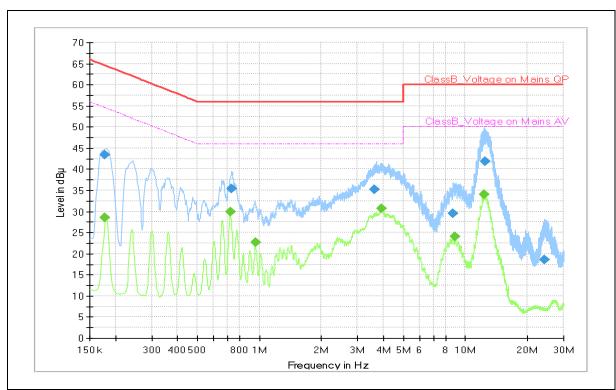
Limits for conducted disturbance at the mains ports of Class B ITE

5.1.1 Test instrumentation

EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Calibration	
					Date	Interval (Month)
E5I-002	Universal Radio Communicator	CMU200	R&S	100612	2019-08-14	12
E5I-022	Signal Generator	SMB100A	R&S	175856	2019-05-13	12
E5I-017	EMI Test Receiver	ESU8	R&S	100483	2020-01-20	12
E5I-127	LISN	ENV216	R&S	102061	2019-08-01	12
-	Test software	EMC32	R&S	Ver 9.26.01	-	-

5.1.2 Temperature and humidity condition

Test date	2020-02-24 ~ 2020-02-25 Test engin		Eun-Kyung Oh		
	Ambient temperature	(22.4 ~ 22.8) °C	Limit (15.0 to 35.0) ℃		
Climate condition	Relative humidity	(43.8 ~ 44.2) % R.H.	Limit (25.0 to 75.0) % R.H.		
	Atmospheric pressure	(101.7 ~ 102.1) kPa	Limit (86.0 to 106.0) kPa		
Test place	Shield Room (SR8)				



5.1.3 Test results

□ Operating Mode 1: AC Mains

QP / CAV	final measureme	ent results table.
	mai measureme	

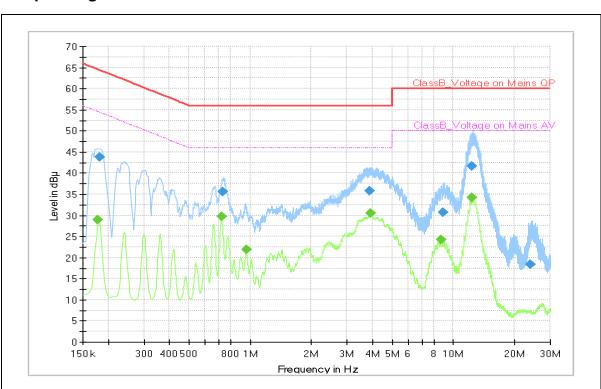
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.178		28.6	54.6	26.0	Ν	10.2
0.178	43.3		64.6	21.3	Ν	10.2
0.724		30.0	46.0	16.0	N	10.1
0.735	35.5		56.0	20.5	Ν	10.1
0.957		22.8	46.0	23.2	N	10.0
3.613	35.1		56.0	20.9	N	10.0
3.935		30.6	46.0	15.4	N	10.0
8.717	29.5		60.0	30.5	L1	10.0
8.939		24.0	50.0	26.0	N	10.2
12.341		34.1	50.0	15.9	N	10.3
12.416	41.8		60.0	18.2	L1	10.1
24.260	18.5		60.0	41.5	L1	10.5

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

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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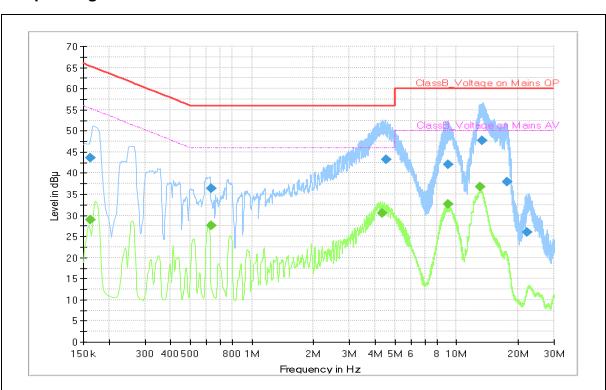
□ Operating Mode 2: AC Mains

QP /	CAV	final	measurement	results table:
------	-----	-------	-------------	----------------

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.178		28.9	54.6	25.7	N	10.2
0.182	43.8		64.4	20.6	N	10.2
0.721		29.7	46.0	16.3	N	10.1
0.732	35.7		56.0	20.3	N	10.1
0.959		21.9	46.0	24.1	N	10.0
3.881	35.8		56.0	20.2	N	10.0
3.926		30.5	46.0	15.5	N	10.0
8.691		24.3	50.0	25.7	N	10.2
8.912	30.7		60.0	29.3	N	10.2
12.384		34.2	50.0	15.8	N	10.3
12.389	41.7		60.0	18.3	L1	10.1
24.047	18.3		60.0	41.7	L1	10.5

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



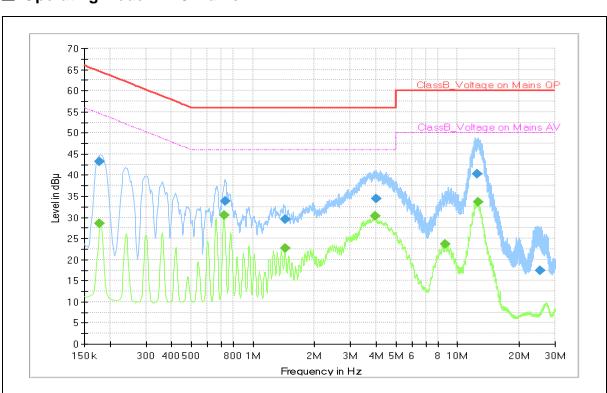
□ Operating Mode 3: AC Mains

QP /	CAV f	inal meas	urement	results	table:
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Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.162		28.9	55.4	26.5	N	10.2
0.162	43.6		65.4	21.8	N	10.2
0.633		27.6	46.0	18.4	N	10.2
0.633	36.5		56.0	19.5	N	10.2
4.326		30.6	46.0	15.4	N	10.0
4.517	43.2		56.0	12.8	N	10.0
9.064	42.1		60.0	17.9	N	10.2
9.096		32.7	50.0	17.3	N	10.2
13.083		36.7	50.0	13.3	N	10.4
13.405	47.7		60.0	12.3	N	10.4
17.664	37.9		60.0	22.1	N	10.6
22.232	25.9		60.0	34.1	Ν	10.7

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

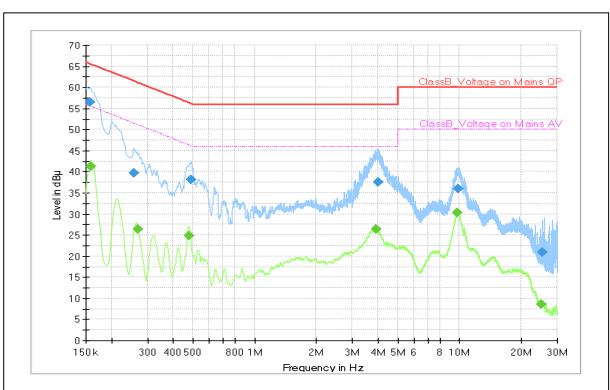
QP / CAV final measurement results ta

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.178	43.1		64.6	21.5	N	10.2
0.178		28.6	54.6	26.0	N	10.2
0.723		30.6	46.0	15.4	N	10.1
0.736	33.8		56.0	22.2	N	10.1
1.431	29.6		56.0	26.4	N	10.0
1.434		22.8	46.0	23.2	N	10.0
3.939		30.4	46.0	15.6	N	10.0
3.991	34.3		56.0	21.7	L1	9.9
8.674		23.6	50.0	26.4	N	10.2
12.517	40.3		60.0	19.7	L1	10.1
12.642		33.7	50.0	16.3	L1	10.1
25.349	17.3		60.0	42.7	L1	10.5

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

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

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.157	56.5		65.6	9.1	N	10.0
0.159		41.3	55.5	14.2	L1	10.0
0.258	39.6		61.5	21.9	N	9.8
0.269		26.3	51.1	24.8	L1	9.8
0.476		24.9	46.4	21.5	L1	10.1
0.490	38.2		56.2	18.0	L1	10.1
3.910		26.3	46.0	19.7	N	9.8
3.998	37.5		56.0	18.5	N	9.8
9.733		30.4	50.0	19.6	L1	9.8
9.800	36.0		60.0	24.0	L1	9.8
25.085		8.6	50.0	41.4	N	10.0
25.343	21.0		60.0	39.0	N	10.0

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

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

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 operates 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 [MHz]	Field Strength				
	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		

Note) Distance correction fomula from $D_1(3m)$ to $D_2(10m)$

: Limit at D_2 = Limit at D_1 + 20Log(D_1 / D_2)

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

5.2.1 Test instrumentation

EMC No.					Calibration	
	Test Instrument	Model name	Manufacturer	Serial No.	Date	Interval (Month)
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2020-01-31	12
E5I-016	EMI Test Receiver	ESU8	R&S	100482	2019-05-29	12
E5I-149	Horn Antenna	HF907	R&S	102525	2018-06-15	24
E5I-039	Signal Conditioning Unit	SCU-18	R&S	10211	2020-01-23	12
E5I-072	BiLog Antenna	CBL6112D	TESEQ	36009	2018-04-23	24
E5I-120	BiLog Antenna	CBL6112D	TESEQ	36997	2018-04-23	24
E5I-073	Preamplifier	310N	SONOMA	332016	2019-05-09	12
E5I-074	Preamplifier	310N	SONOMA	332017	2019-05-09	12
E5I-022	Signal Generator	SMB100A	R&S	175856	2019-05-13	12
E5I-037	WideBand Horn Antenna	WBH 18-40K	R&S	11201	2019-01-31	24
E5I-042	Signal Conditioning Unit	SCU-40A	R&S	10004	2019-09-11	12
	Test software	EP7RE	ΤΟΥΟ	Ver 5.8.2	-	
-	Test software	EMC32	R&S	Ver 9.25.00	-	-

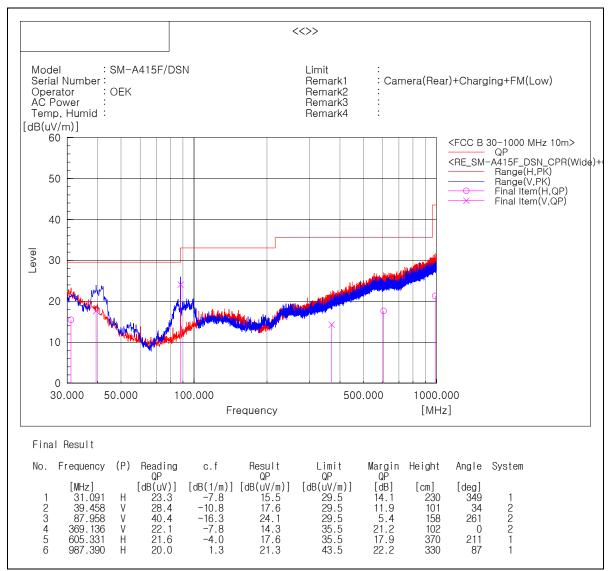
5.2.2 Temperature and humidity condition

Test date	date 2020-02-20 ~ 2020-02-21		Eun-Kyung Oh		
Climate condition	Ambient temperature	(21.5 ~ 21.9) °C	Limit (15.0 to 35.0) ℃		
	Relative humidity	(39.3 ~ 39.7) % R.H.	Limit (25.0 to 75.0) % R.H.		
	Atmospheric pressure	(102.7 ~ 103.1) kPa	Limit (86.0 to 106.0) kPa		
Test place	Semi-Anechoic Chamber (SAC4)				

5.2.3 Test results

□ Operating Mode 1

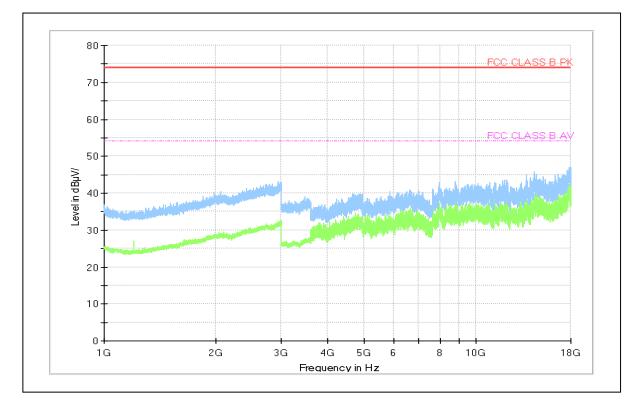
- Frequencies below 1 GHz



* 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

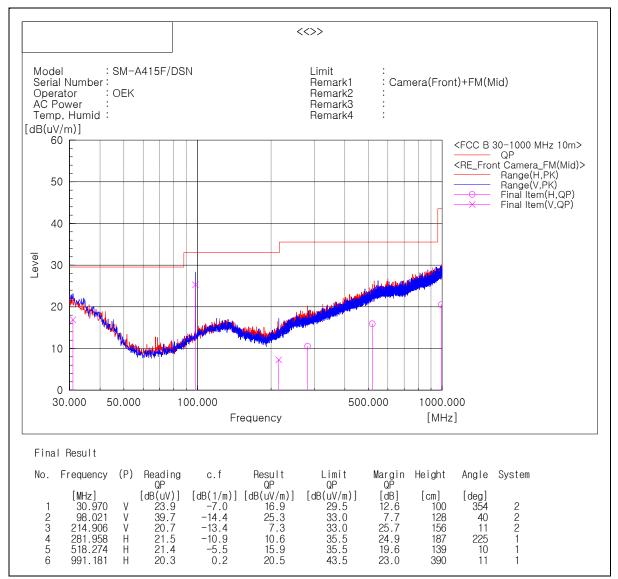
Note 1) We have also tested from 18 GHz to 30 GHz and found no emissions

Note 2) 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

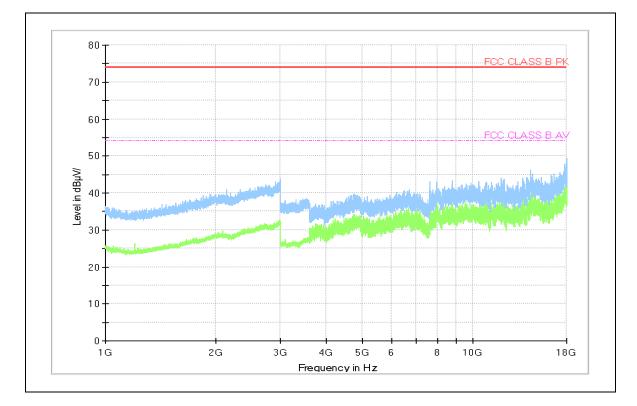
□ Operating Mode 2

- 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



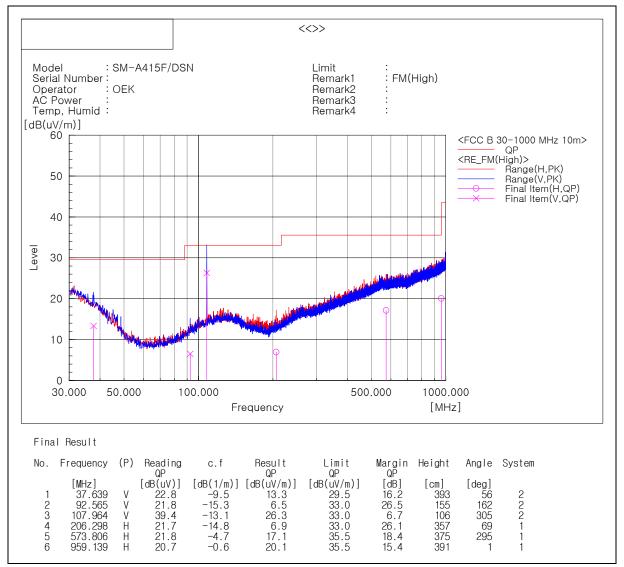
- Frequencies above 1 GHz

Note 1) We have also tested from 18 GHz to 30 GHz and found no emissions

Note 2) 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

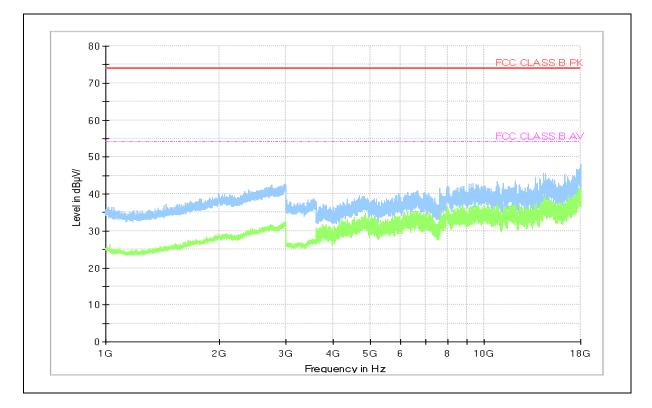
□ Operating Mode 3

- 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



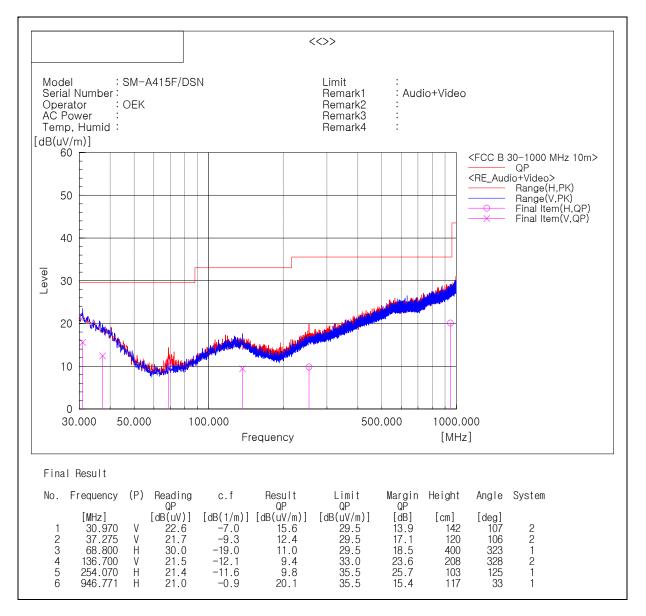
- Frequencies above 1 GHz

Note 1) We have also tested from 18 GHz to 30 GHz and found no emissions

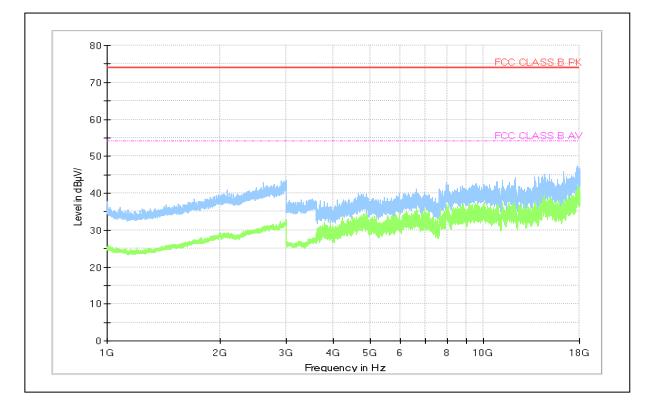
Note 2) Receiving antenna polarization : Horizontal, Vertical Test Distance : 3 m, Antenna Height : 1 to 4 meters Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain) Margin (PK and/or CAV) = Limit – Level (PK and/or CAV) PK = Peak, CAV = CISPR-Average, Corr. = 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



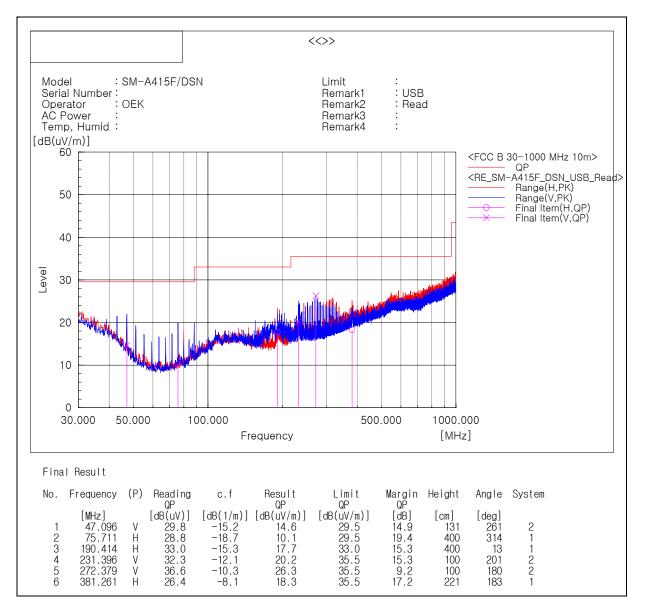
- Frequencies above 1 GHz

Note 1) We have also tested from 18 GHz to 30 GHz and found no emissions

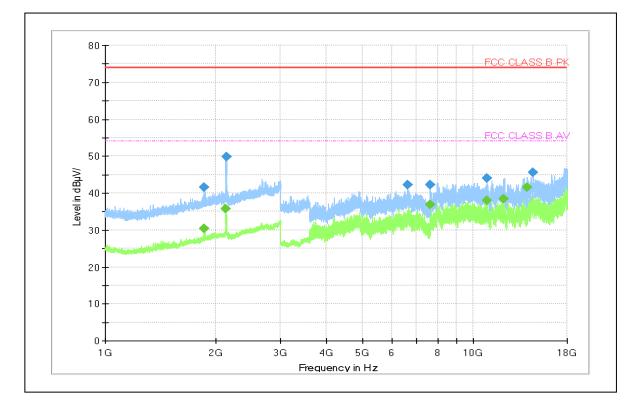
Note 2) Receiving antenna polarization : Horizontal, Vertical Test Distance : 3 m, Antenna Height : 1 to 4 meters Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain) Margin (PK and/or CAV) = Limit – Level (PK and/or CAV) PK = Peak, CAV = CISPR-Average, Corr. = 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/	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 860.000		30.3	54.0	23.7	100.0	V	0.0	11.7
1 861.600	41.5		74.0	32.5	121.0	V	0.0	11.7
2 125.600		35.9	54.0	18.1	189.0	V	26.0	12.9
2 130.800	49.8		74.0	24.2	175.0	V	145.0	12.9
6 637.500	42.1		74.0	31.9	254.0	V	0.0	11.5
7 639.500		36.9	54.0	17.1	226.0	Н	79.0	14.9
7 641.500	42.2		74.0	31.8	191.0	Н	67.0	14.9
10 862.000		38.0	54.0	16.0	204.0	Н	181.0	20.7
10 862.500	44.0		74.0	30.0	208.0	Н	297.0	20.6
12 055.000		38.4	54.0	15.6	206.0	V	276.0	22.8
14 000.500		41.6	54.0	12.4	100.0	V	193.0	27.2
14 487.000	45.5		74.0	28.5	109.0	Н	79.0	28.8

Note 1) We have also tested from 18 GHz to 30 GHz and found no emissions

Note 2) 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

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