EMC TEST REPORT

Project No.	LBE20191234	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	October 14, 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 				
EUT	Equipment authorization	□ Certification □ Supplier's Declaration of Conformity				
	FCC ID	A3LSMG770F				
	Kind of product	Mobile Phone				
	Model No.	SM-G770F/DS				
	Variant Model No.	Refer to clause 4.6				
	Manufacturer	SAMSUNG ELECTRONICS VIETNAM CO.,LTD. Kcn Yen Binh1, huyen pho Yen Tinh Thai Nguyen VIETNAM				
Applied Sta	ındards	47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014				
Test Period	1	October 15, 2019 ~ October 24, 2019				
Issue date		November 5, 2019				
Test result: Complied The equipment under test has found (Refer to the attached test result for		d to be compliant with the applied standards. more detail.)				
	: Eun-Kyung Oh	Reviewed by : Sung-Wook Choi				
J.	In Mo	S. W. Cho 2				

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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-G770F/DS

1. Report Information

1.1 Revision history

No.	Date of Issue	Revised detailed information
Issue 0	November 5, 2019	There are no revisions and this version is basic test report.

1.2 Equipment code CXX

Remark

Compliance with Part 15 B 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
\boxtimes	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.

Mobile Phone: SM-G770F/DS

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-G770F/DS	-	SAMSUNG	A3LSMG770F
В	Battery	EB-BA907ABY L	-	SAMSUNG	-
С	Headset	GH59-15203A	-	SAMSUNG	-
D	Data Cable	EP-DN975BBE	-	SAMSUNG	-
Е	Micro SD Card	64GB	-	SAMSUNG	DoC
F	Laptop Computer	Lannoessau	1CHRYM2	Dell	DoC
F			D3HRYM2	Dell	DoC
	Laptop	1 A CENINA 4 CO	5D77	Dell	DoC
G	AC Adapter	LA65NM130	5B3C	Dell	DoC
Н	Mouse	AA-SM7PCPB	CN57BA5903634ADV 8JJCD4371	SAMSUNG	DoC
	modes	SNJ-B138	Z5F8353	SAMSUNG	DoC
	Router	ter DIR-806A	RF0F1D5000688	D-Link	DoC
'			RF0F1D8011504	D-Link	DoC
J	Travel Adapter	EP-TA845	R37M96L1QQ1SE3	SAMSUNG	-

Mobile Phone : SM-G770F/DS

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 (LTE26 Center Frequency)
2	Camera (front) + Charging (w/ TA)
3	Video + Audio playback from internal memory data + Charging (w/ TA)
4	USB Data Communication with PC (from external memory data)

4.2.2 Radiated Emission

No.	Operating mode
1	Camera (rear) + 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)
6	Charging (w/ TA)

4.3 Details of Sampling

Customer selected, single unit.

Mobile Phone: SM-G770F/DS

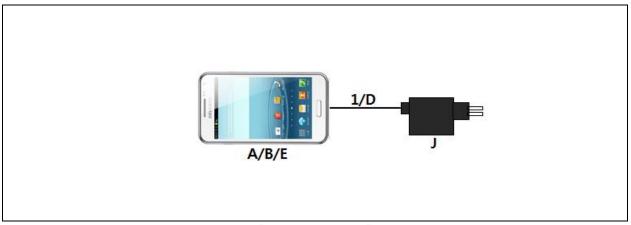
4.4 Used cable description

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:

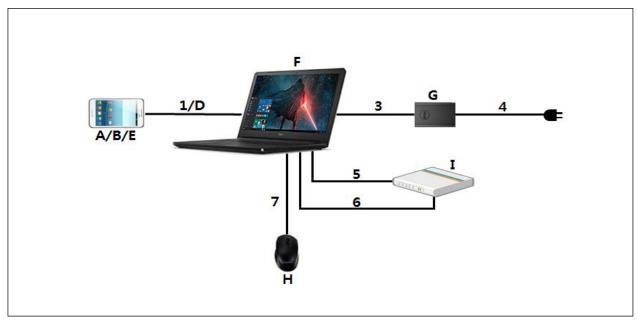
No.	Connected cable	Length [m]	Shielded [Y/N]	Note
1	Data Cable	1.0	Y	From EUT to Laptop Computer
2	Headset	1.2	N	For EUT
3	Power	1.8	N	For Laptop Computer to Laptop AC Adapter
4	Power	1.5	N	For Laptop AC Adapter
5	LAN	1.5	N	From Laptop Computer to Router
6	USB	0.8	N	From Laptop Computer to Router for DC Power
7	USB	1.8	N	For Mouse

4.5 Test arrangement

4.5.1 Conducted Emission



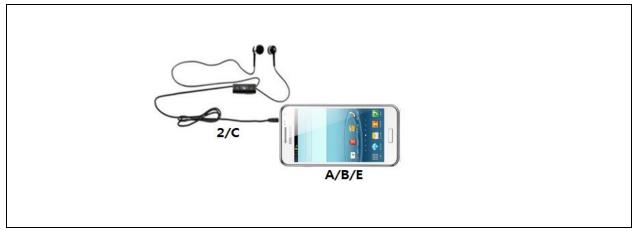
[Mode 1 - 3]



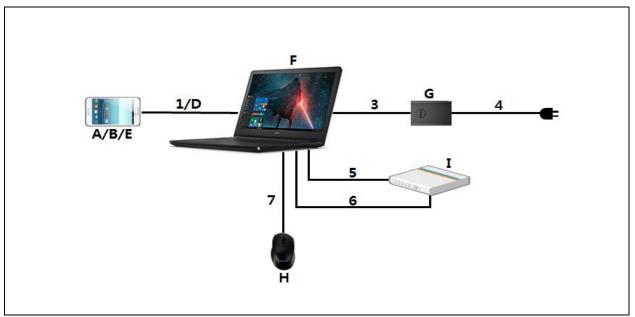
[Mode 4]

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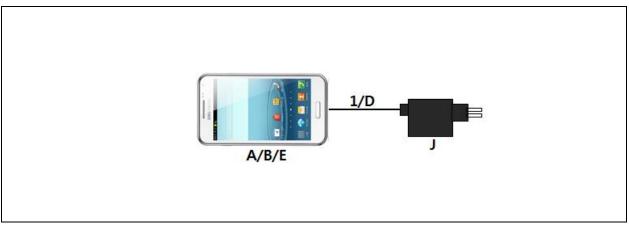
4.5.2 Radiated Emission



[Mode 1 - 4]



[Mode 5]



[Mode 6]

Mobile Phone: SM-G770F/DS

4.6 EUT Description

The EUT is a bar type Mobile Phone which can operate on GSM850/900/1800/1900, WCDMA FDD1/2/4/5/8, LTE FDD1/2/3/4/5/7/8/12/13/17/20/26/28/66, LTE TDD38/40/41 and Incorporates a Bluetooth, ANT+, Wi-Fi, Camera, FM Radio, GNSS, NFC, MST, Audio and Video.

4.6.1 The variant models

- SM-G770F/DSM, SM-G770F

4.7 EUT Frequencies

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

Mobile Phone: SM-G770F/DS

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.

Cellular RX mode testing was performed with the LTE FDD26 RX Test mode at center frequency. All licensed communication Cellular 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 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	2.83 dB
Radiated Disturbance	Horizontal	4.99 dB
(Below 1 GHz)	Vertical	4.90 dB
Radiated Disturbance	Horizontal	5.13 dB
(Above 1 GHz)	Vertical	5.12 dB

Mobile Phone: SM-G770F/DS

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	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.

5.1.1 Test instrumentation

	Test Instrument	Model name	Manufacturer	Serial No.	Calibration	
EMC No.					Date	Interval (Month)
E5I-171	LTE Communicator	CMW500	R&S	154667	2019-08-06	12
E5I-017	EMI Test Receiver	ESU8	R&S	100483	2019-01-16	12
E5I-127	Two-Line V-Network	ENV216	R&S	102061	2019-08-01	12
-	Test software	EMC32	R&S	Ver 9.26.01	-	-

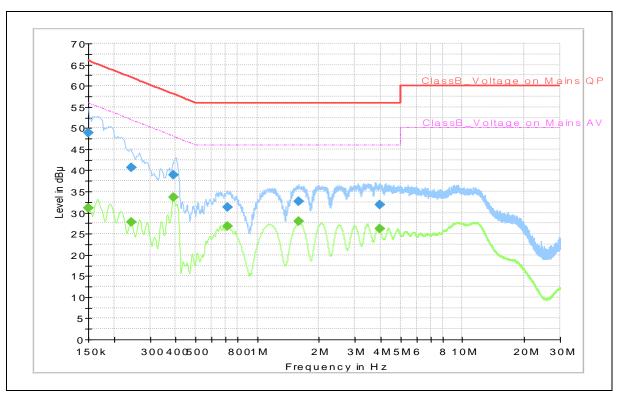
5.1.2 Temperature and humidity condition

Test date	2019-10-24	Test engineer	Eun-Kyung Oh				
	Ambient temperature	(26.5 ~ 26.8) ℃	Limit (15.0 to 35.0) ℃				
Climate condition	Relative humidity	(39.5 ~ 39.8) % R.H.	Limit (25.0 to 75.0) % R.H.				
	Atmospheric pressure	Limit (86.0 to 106.0) kPa					
Test place	Shield Room (SR8)						

Mobile Phone: SM-G770F/DS

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)
0.150	48.9		66.0	17.1	N	9.9
0.150		31.0	56.0	25.0	N	9.9
0.242	40.6		62.0	21.4	L1	9.8
0.242		27.8	52.0	24.2	L1	9.8
0.389	38.9		58.1	19.2	L1	10.1
0.389		33.7	48.1	14.4	L1	10.1
0.715		26.7	46.0	19.3	L1	10.0
0.715	31.4		56.0	24.6	L1	10.0
1.599	32.6		56.0	23.4	N	9.9
1.599		27.9	46.0	18.1	N	9.9
3.975		26.3	46.0	19.7	L1	9.9
3.975	31.9		56.0	24.1	L1	9.9

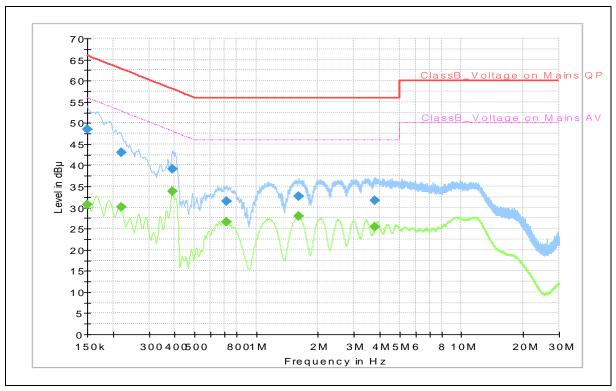
Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)

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

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

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☐ 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:

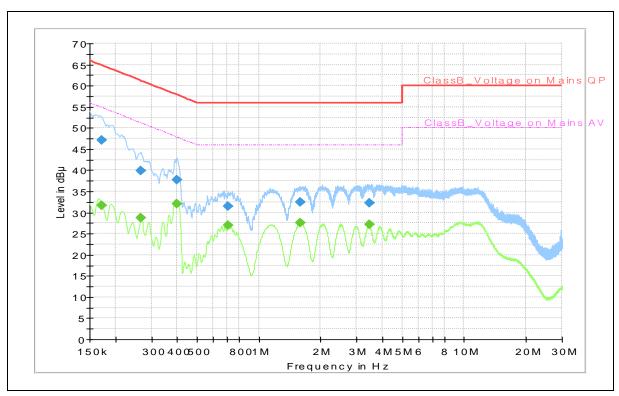
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150	48.6		66.0	17.4	N	9.9
0.150		30.8	56.0	25.2	N	9.9
0.220	43.0		62.8	19.8	N	9.9
0.220		30.0	52.8	22.8	N	9.9
0.389	39.1		58.1	19.0	L1	10.1
0.389		33.8	48.1	14.3	L1	10.1
0.717	31.4		56.0	24.6	L1	10.0
0.717		26.6	46.0	19.4	L1	10.0
1.608		27.9	46.0	18.1	N	9.9
1.608	32.7		56.0	23.3	N	9.9
3.775		25.4	46.0	20.6	N	10.0
3.775	31.7		56.0	24.3	N	10.0

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:

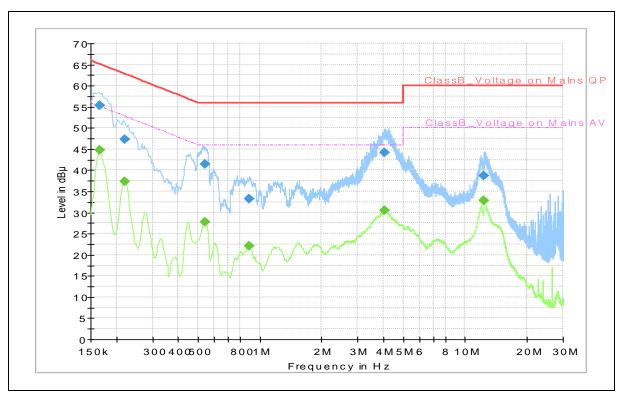
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.173	47.2		64.8	17.6	N	10.3
0.173		31.6	54.8	23.2	N	10.3
0.265	39.8		61.3	21.5	L1	9.8
0.265		28.8	51.3	22.5	L1	9.8
0.398	37.7		57.9	20.2	L1	10.1
0.398		32.1	47.9	15.8	L1	10.1
0.706	31.4		56.0	24.6	L1	10.0
0.706		27.0	46.0	19.0	L1	10.0
1.590		27.6	46.0	18.4	N	9.9
1.590	32.4		56.0	23.6	N	9.9
3.449		27.2	46.0	18.8	N	10.0
3.449	32.3		56.0	23.7	N	10.0

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)
0.166		44.8	55.2	10.4	L1	10.1
0.166	55.4		65.2	9.8	L1	10.1
0.220	47.4		62.8	15.4	L1	9.8
0.220		37.3	52.8	15.5	L1	9.8
0.542		27.8	46.0	18.2	L1	10.1
0.542	41.4		56.0	14.6	L1	10.1
0.888	33.2		56.0	22.8	L1	9.9
0.888		22.1	46.0	23.9	L1	9.9
4.047		30.5	46.0	15.5	N	9.8
4.047	44.1		56.0	11.9	N	9.8
12.404		32.9	50.0	17.1	L1	9.9
12.404	38.8		60.0	21.2	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

Mobile Phone: SM-G770F/DS

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]	- Antonna Polarisation		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	Antenna Polarisation Resolution 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				

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.

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Mobile Phone: SM-G770F/DS

5.2.1 Test instrumentation

					Calibr	ation
EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Date	Interval (Month)
E5I-002	Universal Radio Communicator	CMU200	R&S	100612	2019-08-14	12
E5I-016	EMI Test Receiver	ESU8	R&S	100482	2019-05-29	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-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
E5I-120	BiLog Antenna	CBL6112D	TESEQ	36997	2018-04-23	24
E5I-072	BiLog Antenna	CBL6112D	TESEQ	36009	2018-04-23	24
E5I-073	Preamplifier	310N	SONOMA	332016	2019-05-09	12
E5I-074	Preamplifier	310N	SONOMA	332017	2019-05-09	12
-	Test software	EP7RE	TOYO	Ver 5.8.2	-	-
-	Test software	EMC32	R&S	Ver 9.25.00	-	-

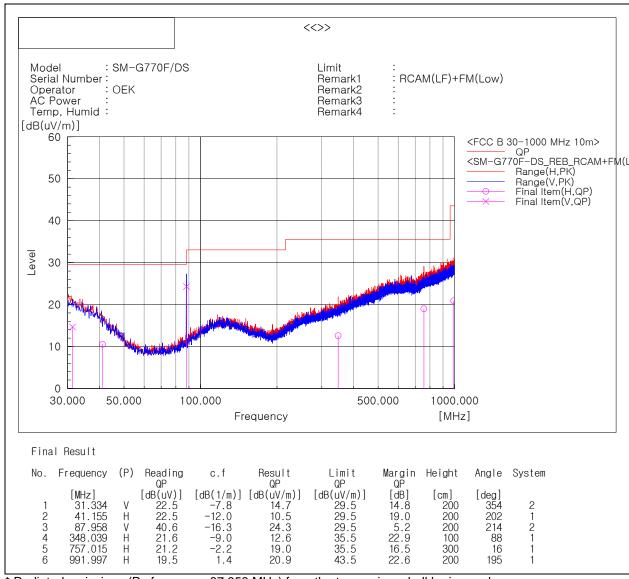
5.2.2 Temperature and humidity condition

Test date	2019-10-15, 2019-10-18	Test engineer	Eun-Kyung Oh			
	Ambient temperature	(22.5 ~ 22.9) ℃	Limit (15.0 to 35.0) ℃			
Climate condition	Relative humidity	(47.2 ~ 47.5) % R.H.	Limit (25.0 to 75.0) % R.H.			
	Atmospheric pressure	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

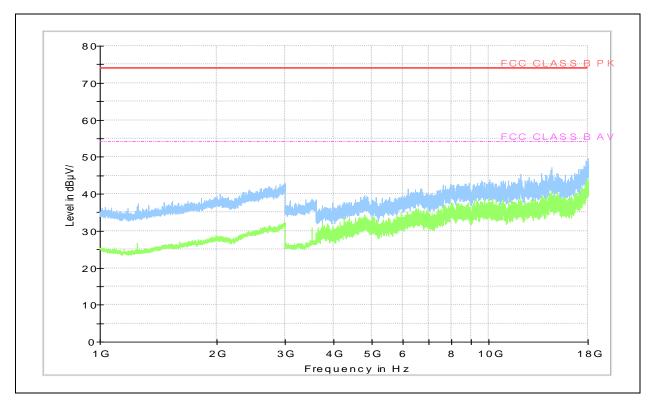
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

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

Mobile Phone: SM-G770F/DS

- 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)

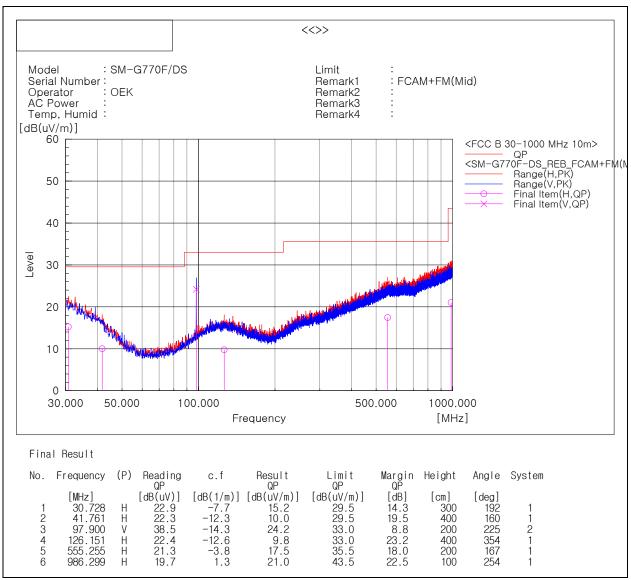
Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

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

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☐ Operating Mode 2

- Frequencies below 1 GHz



^{*} Radiated emissions (Rx frequency 97.900 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)

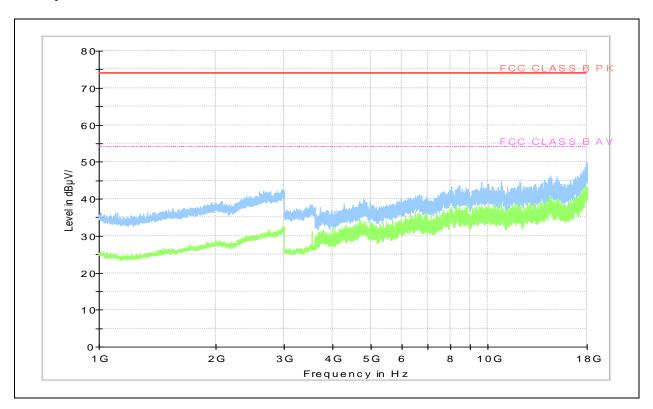
Margin (QP) = Limit – Level (QP)

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

.

Mobile Phone: SM-G770F/DS

- 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)

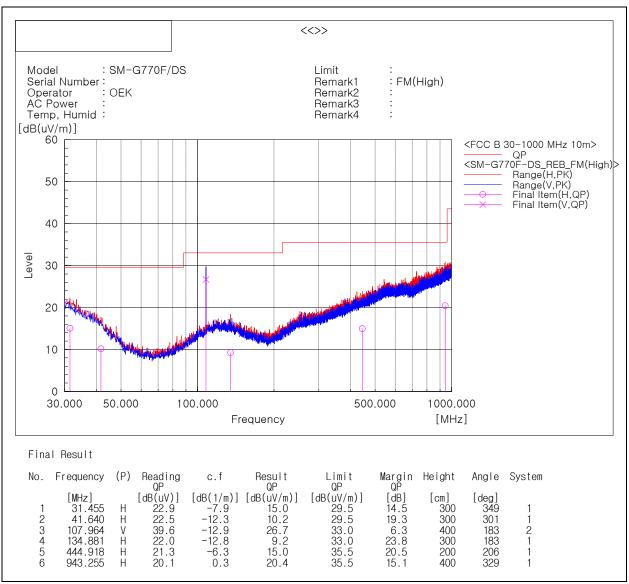
Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

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

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☐ 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

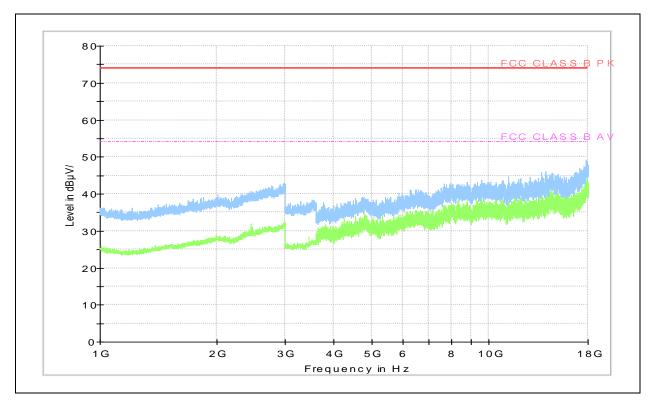
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

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

Mobile Phone: SM-G770F/DS

- 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)

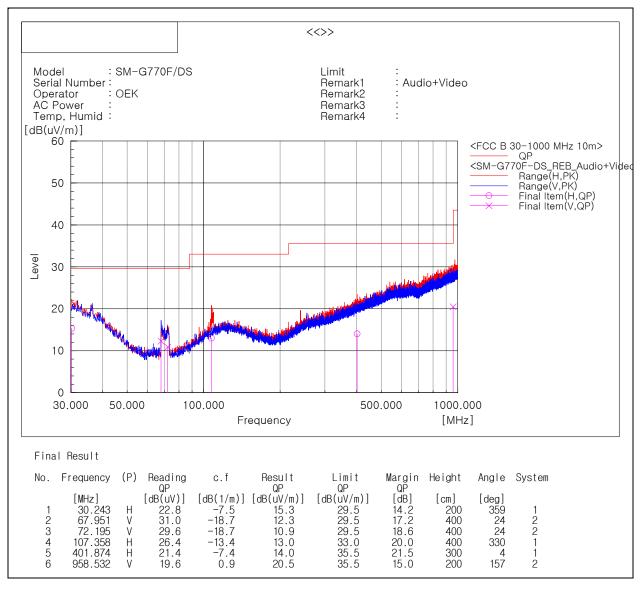
Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

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

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□ Operating Mode 4

- Frequencies below 1 GHz



Note1) Receiving antenna polarization: Horizontal, Vertical

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

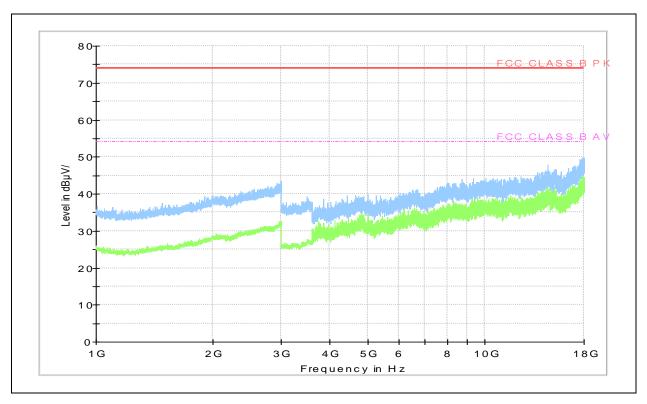
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

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

Mobile Phone: SM-G770F/DS

- 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)

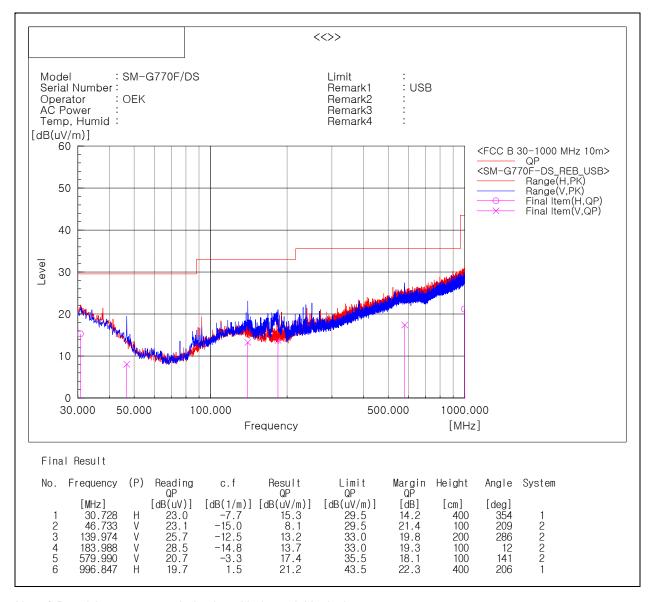
Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

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

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☐ Operating Mode 5

- Frequencies below 1 GHz



Note1) Receiving antenna polarization: Horizontal, Vertical

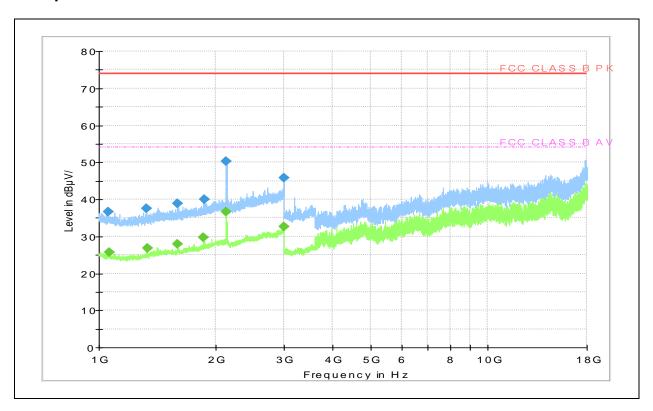
Test Distance: 10 m, Antenna Height: 1 to 4 meters

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)
1 058.400	36.7		74.0	37.3	192.0	٧	140.0	7.0
1 066.400		25.8	54.0	28.2	164.0	V	1.0	7.1
1 328.000	37.6		74.0	36.4	129.0	٧	0.0	8.3
1 330.000		26.8	54.0	27.2	145.0	٧	129.0	8.3
1 594.000	38.9		74.0	35.1	247.0	V	125.0	10.1
1 594.000		27.9	54.0	26.1	284.0	٧	125.0	10.1
1 861.200		29.7	54.0	24.3	185.0	٧	0.0	11.7
1 862.400	40.0		74.0	34.0	232.0	٧	0.0	11.7
2 126.400		36.6	54.0	17.4	135.0	٧	17.0	12.9
2 127.200	50.2		74.0	23.8	178.0	٧	143.0	12.9
2 995.600		32.6	54.0	21.4	148.0	V	338.0	16.8
2 997.600	45.8		74.0	28.2	214.0	V	0.0	16.8

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

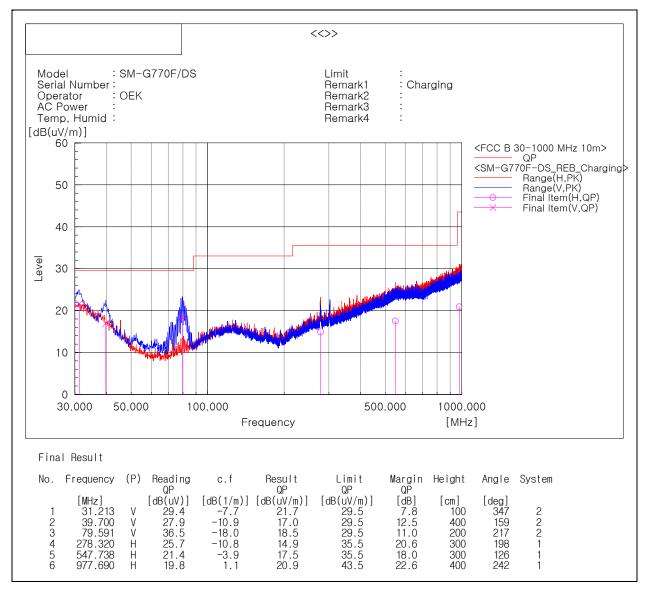
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

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

☐ Operating Mode 6

- Frequencies below 1 GHz



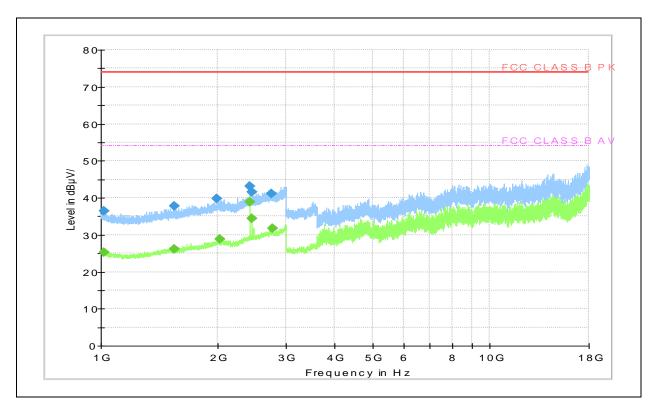
Note1) Receiving antenna polarization : Horizontal, Vertical Test Distance : 10 m, Antenna Height : 1 to 4 meters

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)
1 020.000		25.2	54.0	28.8	180.0	٧	80.0	7.2
1 021.600	36.3		74.0	37.7	162.0	٧	310.0	7.2
1 546.400	37.7		74.0	36.3	117.0	Н	337.0	9.9
1 546.800		26.1	54.0	27.9	186.0	Н	199.0	9.9
1 985.200	39.8		74.0	34.2	118.0	Н	284.0	12.8
2 018.800		28.8	54.0	25.2	124.0	Н	217.0	13.0
2 415.200		38.9	54.0	15.1	148.0	V	102.0	13.8
2 415.200	43.2		74.0	30.8	224.0	V	102.0	13.8
2 447.600		34.5	54.0	19.5	195.0	V	243.0	13.9
2 448.000	41.5		74.0	32.5	237.0	V	243.0	13.9
2 752.000	41.2		74.0	32.8	182.0	Н	239.0	15.5
2 756.800		31.7	54.0	22.3	156.0	V	250.0	15.5

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)

 ${\sf PK} = {\sf Peak}, \, {\sf CAV} = {\sf CISPR}\text{-}{\sf Average}, \, {\sf Corr.} = {\sf Correction} \,\, {\sf Factor}$