EMC TEST REPORT

Project No.	LBE20200592	Issue No.	1		
	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 receipt	May 27, 2020			
	Type of device	⊠ Class B Perso	reivers subject to part15 onal Computers and peripherals B digital devices and peripherals of Receiver		
	Equipment authorization	□ Certification □ Supplier's Declaration of Conformity			
	FCC ID	A3LSMF707B			
EUT	Kind of product	Mobile Phone			
	Model No.	SM-F707B			
	Variant Model No.	Refer to clause 4.6			
	Manufacturer	SAMSUNG ELECTRONICS CO., LTD. 302, 3 Gongdan 3-ro, Gumi-si, Gyengsangbuk-do, 39 Republic of Korea			
Applied Sta	indards	47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014			
Test Period		May 27, 2020 ~ May 28, 2020			
Issue date		June 16, 2020			
Tost result	Test result : Complied				

Test result : Complied

The equipment under test has found to be compliant with the applied standards. (Refer to the attached test result for more detail.)

Tested by : Soo-Joon Kim

S. I Kom

Reviewed by : Sun-Ho Kim

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Samsung Electronics Co Ltd, Global CS Center (Maetan dong) 129, Samsung-ro, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do 16677, Korea

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1. Report Information

1.1 Revision history

No.	Date of Issue	Revised detailed information			
Issue 0	2 June 2020	There are no revisions and this version is basic test report.			
Issue 1	16 June 2020	The variant model SCG04 was added on clause 4.6.1 as per customer's request.			

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 accredited testing laboratory by the National Radio Research Agency with designation No. KR0004. for EMC testing.

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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	
А	Mobile Phone	SM-F707B	-	SAMSUNG	A3LSMF707B	
В	Battery	Main: EB-BF707ABY Sub: EB-BF708ABY	-	SAMSUNG	-	
С	Headset	YBD-19HS	-	SAMSUNG	-	
D	Data Cable	EP-DF700BBE	-	SAMSUNG	-	
_	Laptop	Latitude5580	1CHRYM2	Dell	DoC	
-	E Computer	Latitude5580	D3HRYM2	Dell	DoC	
F	Laptop	LA65NM130	5D77	Dell	DoC	
-	AC Adapter LA65NM130		5B3C	Dell	DoC	
G	Mayaa	A A CMZDODD	CN57BA5903634AD V8JJCD4371	SAMSUNG	DoC	
G	Mouse AA-SM7PCPB	CNBA5903634ADV8 J31O3050	SAMSUNG	DoC		
Н	DID 0004	RF0F1D8011501	D-Link	DoC		
	Router	DIR-806A	RF0F1D8011504	D-Link	DoC	
I	Travel Adapter	EP-TA200	R37N4AA0042DK3	SAMSUNG	-	

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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 (LTE FDD26 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 internal memory data)

4.2.2 Radiated Emission

No.	Operating mode
1	Camera (rear) + Charging (w/ TA)
2	Camera (front) with headset connected
3	Video + Audio playback from internal memory data(w/ Headset)
4	USB Data Communication with PC (from internal memory data)

4.3 Details of Sampling

Customer selected, single unit.

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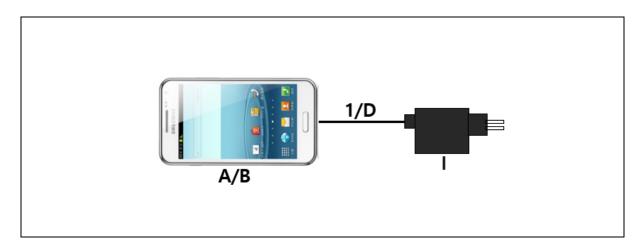
4.4 Used cable description

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:

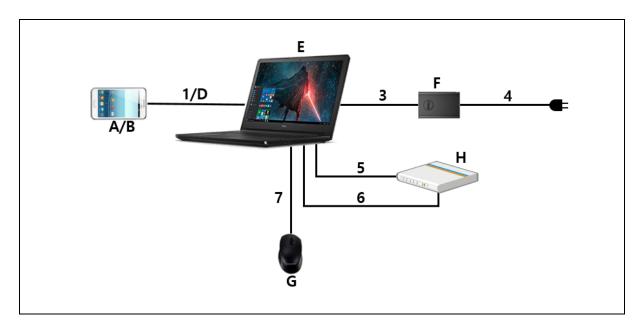
No.	Connected cable	Length [m]	Shielded [Y/N]	Note	
1	Data Cable	1.0	From EUT to Laptop Computer / From EUT to Travel Adapter		
2	Headset	1.3	N	For EUT	
3	Power	1.8	N	From Laptop Computer to AC Adapter	
4	Power	1.5	N	For Laptop AC Adapter	
5	LAN	1.5	N	From Laptop Computer to Router	
6	USB	0.8	Y	From Laptop Computer to Router for DC Power	
7	USB	1.8	Y	From Laptop Computer to Mouse	

4.5 Test arrangement

4.5.1 Conducted Emission

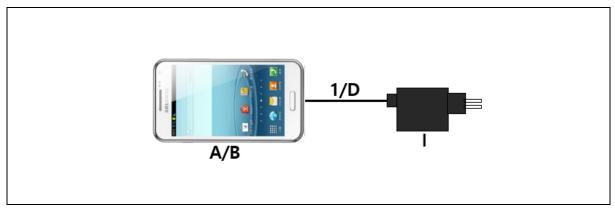


[Mode 1 - 3]

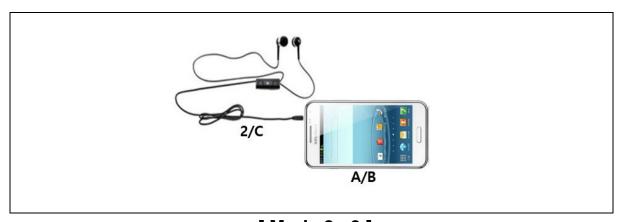


[Mode 4]

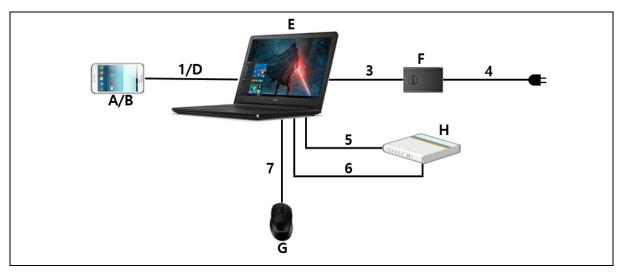
4.5.2 Radiated Emission



[Mode 1]



[Mode 2 - 3]



[Mode 4]

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4.6 EUT Description

The EUT is a foldable type mobile phone which can operate on GSM850/900/1800/1900, WCDMA FDD1/2/4/5/8, LTE FDD1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/66, LTE TDD38/39/40/41, 5G NR n1/n3/n5/n7/n8/n28/n40/n41/n77/n78 bands and incorporates a Bluetooth, ANT+, Wi-Fi, Camera, Audio, Video, GNSS, NFC, Wireless Charging and MST.

4.6.1 The variant models

- SCG04

4.7 EUT Frequencies

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

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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 (if available), 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 LTE FDD26 RX Test mode at center frequency. All licensed communication (850MHz) RX mode, GSM/WCDMA/LTE, test results are not significantly different.

The video and audio were repetitively played with the 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)

4.9.1 Emission

Test type	Measurement uncertainty (C.L. 95 %, k = 2)	
Conducted disturbance	AC Mains	2.92 dB
Radiated Disturbance	Horizontal	4.08 dB
(Below 1 GHz)	Vertical	4.58 dB
Radiated Disturbance	Horizontal	5.21 dB
(Above 1 GHz)	Vertical	5.22 dB

^{*} Remark

1) The values for uncertainty of conducted and radiated emissions are less than the Corresponding values of Ucispr given in CISPR 55016-4-2. Therefore no adjustment of measurement results is necessary when comparing them with the relevant limits.

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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

				-	Next Calibration	
EMC No.	Test Instrument	Model name	Manufacturer	ufacturer Serial No.		Interval (Month)
E5I-007	LTE Communicator	CMW500	R&S	132729	2021-03-27	12
E5I-017	EMI Test Receiver	ESU8	R&S	100483	2021-01-20	12
E5I-127	LISN	ENV216	R&S	102061	2020-08-01	12
-	Test software	EMC32	R&S	Ver 9.26.01	-	-

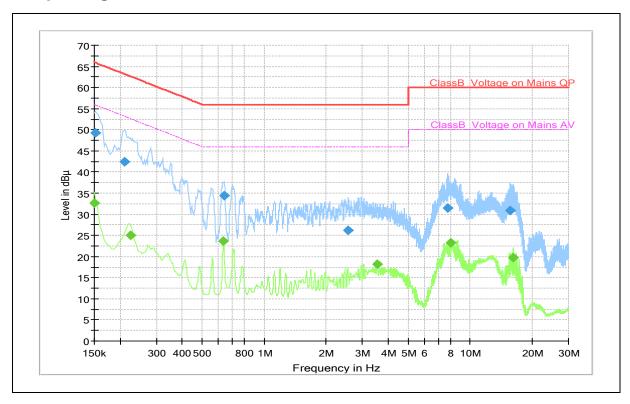
5.1.2 Temperature and humidity condition

Test date	2020-05-28	Test engineer	Soo-Joon Kim	
	Ambient temperature	(21.4 ± 0.5) ℃	Limit (15.0 to 35.0) ℃	
Climate condition	Relative humidity	(53.1 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.	
	Atmospheric pressure	Limit (86.0 to 106.0) kPa		
Test place		Shield Room (SR8)		

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5.1.3 Test results

☐ Operating Mode 1: AC Mains



QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150		32.6	56.0	23.4	N	9.9
0.152	49.2		65.9	16.7	N	10.0
0.211	42.4		63.2	20.8	L1	9.9
0.224		25.0	52.7	27.7	N	9.9
0.636		23.7	46.0	22.3	L1	10.0
0.638	34.3		56.0	21.7	L1	10.0
2.560	26.1		56.0	29.9	N	9.9
3.532		18.3	46.0	27.7	N	10.0
7.809	31.4		60.0	28.6	N	10.2
8.039		23.2	50.0	26.8	N	10.2
15.675	31.0		60.0	29.0	N	10.5
16.161		19.7	50.0	30.3	N	10.5

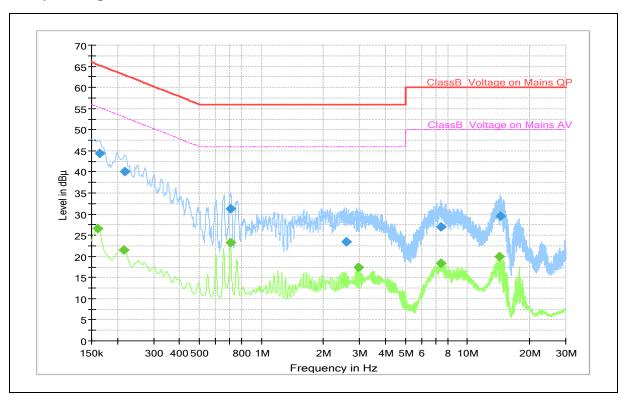
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

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:

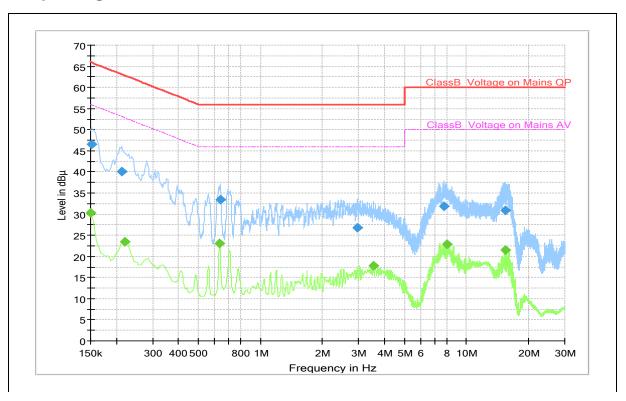
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.161		26.7	55.4	28.7	N	10.2
0.164	44.4		65.3	20.9	N	10.2
0.215		21.6	53.0	31.4	N	10.0
0.218	40.1		62.9	22.9	Ν	10.0
0.708		23.2	46.0	22.8	N	10.1
0.708	31.4		56.0	24.6	N	10.1
2.582	23.4		56.0	32.6	N	9.9
2.965		17.5	46.0	28.5	Ν	9.9
7.409	26.9		60.0	33.1	N	10.1
7.433		18.3	50.0	31.7	N	10.1
14.325		19.9	50.0	30.1	N	10.4
14.429	29.4		60.0	30.6	N	10.4

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 final measurement results table:

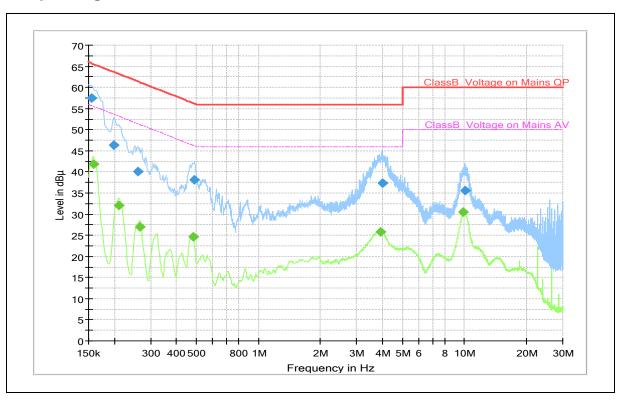
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150		30.3	56.0	25.7	N	9.9
0.152	46.6		65.9	19.3	N	10.0
0.213	40.0		63.1	23.1	N	10.0
0.220		23.4	52.8	29.4	N	9.9
0.636		23.1	46.0	22.9	L1	10.0
0.638	33.4		56.0	22.6	L1	10.0
2.958	26.7		56.0	29.3	N	9.9
3.530		17.9	46.0	28.1	N	10.0
7.800	31.9		60.0	28.1	N	10.2
8.032		22.9	50.0	27.1	N	10.2
15.430	30.9		60.0	29.1	N	10.5
15.504		21.5	50.0	28.5	N	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 4: AC Mains



OP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.355		30.1	48.9	18.8	L1	10.0
0.359	37.3		58.7	21.4	L1	10.0
0.710		34.0	46.0	12.0	L1	10.0
0.719	42.0		56.0	14.0	L1	10.0
1.349		24.6	46.0	21.4	N	10.0
1.352	34.9		56.0	21.1	L1	9.9
2.200		22.7	46.0	23.3	N	9.9
2.211	31.1		56.0	24.9	L1	9.9
4.047		28.0	46.0	18.0	N	10.0
4.848	32.9		56.0	23.1	N	10.0
12.941	38.5		60.0	21.5	L1	10.1
13.144		29.7	50.0	20.3	L1	10.2

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)

 $\mathsf{QP} = \mathsf{Quasi\text{-}Peak}, \, \mathsf{CAV} = \mathsf{CISPR\text{-}Average}, \, \mathsf{Corr.} = \mathsf{Correction} \, \, \mathsf{Factor}$

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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]	ight Antenna Polarisation Resolution Bandwid		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	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 formula 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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5.2.1 Test instrumentation

гис		Madal			Next Calibration		
EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Date	Interval (Month)	
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2021-01-31	12	
E5I-018	EMI Test Receiver	ESU8	R&S	100484	2021-05-22	12	
E5I-149	Horn Antenna	HF907	R&S	102525	2020-06-15	24	
E5I-039	Signal Conditioning Unit	SCU-18	R&S	10211	2021-01-23	12	
E5I-037	WideBand Horn Antenna	WBH 18-40K	R&S	11201	2021-01-31	24	
E5I-042	Signal Conditioning Unit	SCU-40A	R&S	10004	2020-09-11	12	
E5I-069	BiLog Antenna	CBL6112D	TESEQ	35382	2021-08-30	24	
E5I-071	BiLog Antenna	CBL6112D	TESEQ	35384	2021-08-30	24	
E5I-073	Preamplifier	310N	SONOMA	332016	2021-05-07	12	
E5I-074	Preamplifier	310N	SONOMA	332017	2021-05-07	12	
-	Test software	EP7RE	TOYO	Ver 5.8.2	-	-	
-	Test software	EMC32	R&S	Ver 9.25.00	-	-	

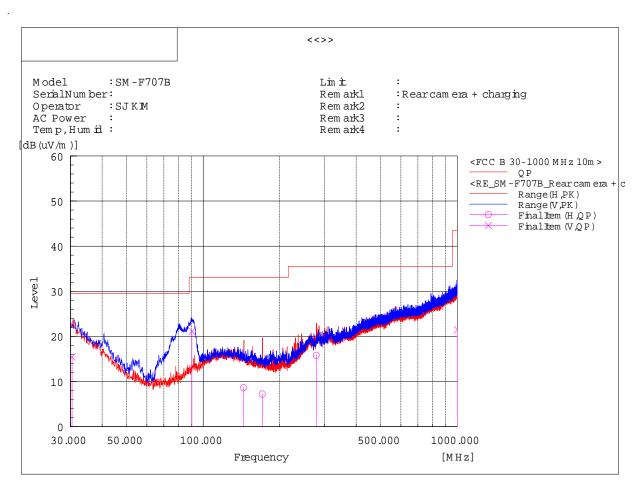
5.2.2 Temperature and humidity condition

Test date	2020-05-27 ~ 2020-05-28	Test engineer	Soo-Joon Kim		
	Ambient temperature	(23.2 ± 0.5) °C	Limit (15.0 to 35.0) ℃		
Climate condition	Relative humidity	(51.5 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.		
	Atmospheric pressure	(100.6 ± 0.5) 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



Final Result

No.	Frequency	(P)	Reading	c.f	Result	Limit	Margin	Height	Angle	System
			QP		QP	QP	QP			
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	30.457	V	21.9	-6.4	15.5	29.5	14.0	124	327	2
2	90.208	V	36.1	-15.0	21.1	33.0	11.9	147	250	2
3	144.173	Η	22.4	-13.8	8.6	33.0	24.4	239	259	1
4	170.759	Η	22.1	-14.9	7.2	33.0	25.8	353	208	1
5	278.466	Η	26.9	-11.1	15.8	35.5	19.7	344	27	1
6	999.884	V	18.7	2.8	21.5	43.5	22.0	154	248	2

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)

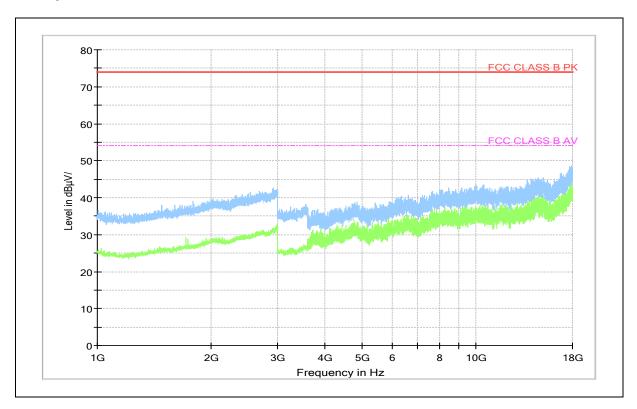
Margin (QP) = Limit - Level (QP)

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

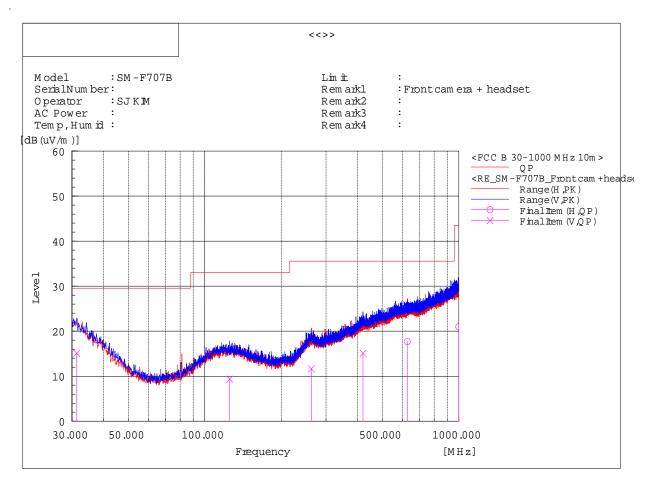
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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



Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	31.334	V	21.9	-6.8	15.1	29.5	14.4	382	103	2
2	125.303	V	21.0	-11.6	9.4	33.0	23.6	150	359	2
3	262.558	V	20.5	-8.9	11.6	35.5	23.9	220	178	2
4	419.455	V	20.3	-5.2	15.1	35.5	20.4	347	62	2
5	627.399	Η	21.7	-4.0	17.7	35.5	17.8	199	245	1
6	998.545	Η	19.9	1.1	21.0	43.5	22.5	285	267	1

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)

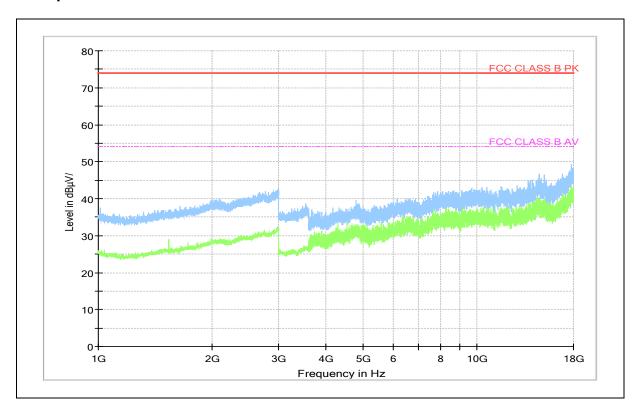
Margin (QP) = Limit - Level (QP)

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

.

Mobile Phone: SM-F707B

- 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

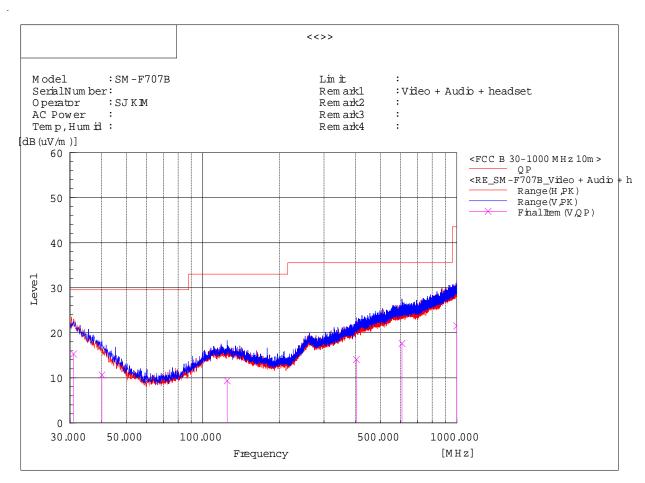
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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



Final Result

No.	Frequency	(P)	Reading	c.f	Result	Limit	Margin	Height	Angle	System
	[2077]		QP	[-3m/1/\]	QP	QP	QP	r 1	f.a1	
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	30.970	V	21.9	-6.6	15.3	29.5	14.2	168	304	2
2	40.064	V	21.8	-11.2	10.6	29.5	18.9	238	122	2
3	124.696	V	21.0	-11.6	9.4	33.0	23.6	399	7	2
4	402.116	V	20.1	-6.0	14.1	35.5	21.4	355	280	2
5	608.605	V	20.1	-2.5	17.6	35.5	17.9	340	0	2
6	998.787	V	18.7	2.8	21.5	43.5	22.0	139	169	2

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)

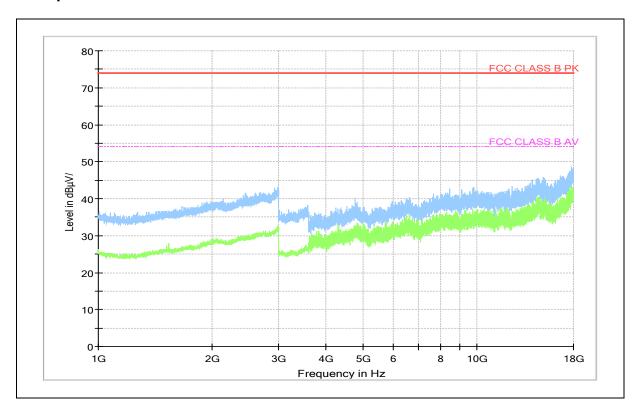
Margin (QP) = Limit - Level (QP)

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

.

Mobile Phone: SM-F707B

- 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

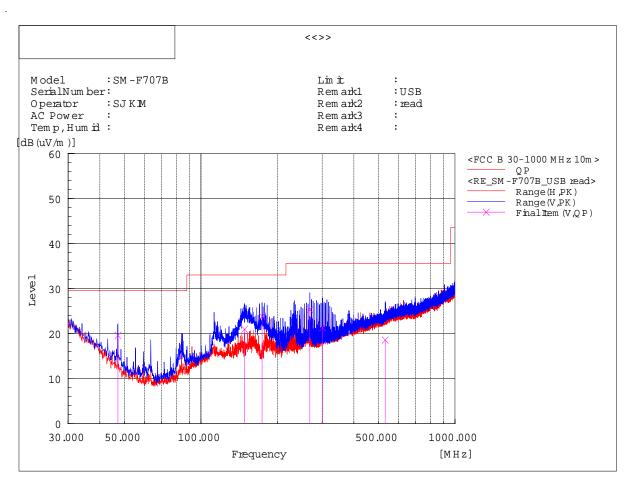
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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



Final	Result

No.	Frequency	(P)	Reading QP	c.f	Result OP	Limit OP	Margin QP	Height	Angle	System
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	47.096	V	34.6	-15.0	19.6	29.5	9.9	100	192	2
2	148.583	V	33.8	-12.8	21.0	33.0	12.0	111	320	2
3	174.045	V	37.5	-13.6	23.9	33.0	9.1	101	358	2
4	268.256	V	34.6	-9.2	25.4	35.5	10.1	100	188	2
5	300.994	V	30.5	-9.2	21.3	35.5	14.2	100	23	2
6	531.005	V	22.5	-3.9	18.6	35.5	16.9	329	212	2

Note1) Receiving antenna polarization: Horizontal, Vertical

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

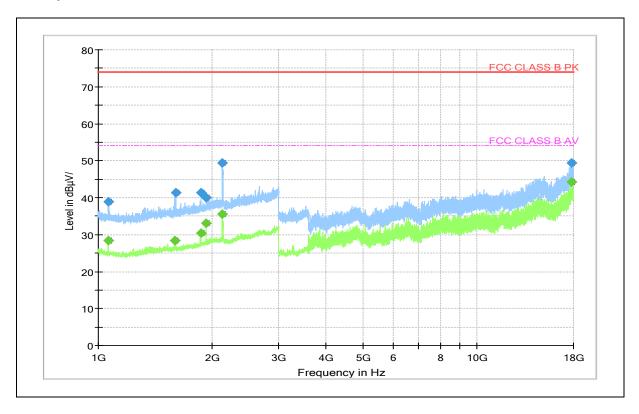
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

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

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- Frequencies above 1 GHz



Frequency (MHz)	PK (dBµV/	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 065.2000	38.9		74.0	35.1	100.0	٧	292.0	7.1
1 065.6000		28.4	54.0	25.6	102.0	٧	292.0	7.1
1 594.4000		28.3	54.0	25.7	100.0	٧	136.0	10.1
1 600.0000	41.4		74.0	32.6	100.0	٧	117.0	10.1
1 865.2000		30.3	54.0	23.7	110.0	٧	131.0	11.7
1 865.2000	41.2		74.0	32.8	100.0	>	131.0	11.7
1 926.8000		33.2	54.0	20.8	100.0	٧	152.0	12.2
1 926.8000	40.0		74.0	34.0	112.6	٧	152.0	12.2
2 124.8000	49.4		74.0	24.6	100.0	٧	347.0	12.9
2 127.6000		35.6	54.0	18.4	100.0	٧	347.0	12.9
17 819.5000	49.3		74.0	24.7	101.0	V	200.0	35.8
17 821.0000		44.3	54.0	9.7	100.0	Н	21.0	35.7

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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