EMC TEST REPORT

Project No.	LBE20220272	Issue No.	1	
5	Name of organization	Samsung Electr	ronics Co., Ltd.	
Applicant	Address	(Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea		
	Date of receipt	May 11, 2022		
	Type of device	Class B pers	vivers subject to Part 15 onal computers and peripherals B digital devices and peripherals st Receiver	
	Equipment authorization	Certification	☐ Supplier's Declaration of Conformity	
	FCC ID	A3LSMF721B		
	Kind of product	Mobile Phone		
EUT	Model No.	SM-F721B		
	Variant Model No.	Refer to clause	4.6	
	Manufacturer		onics Vietnam Co., Ltd. PYentrung Commune, Yenphong Dist., ce, Vietnam	
			onics Vietnam THAI NGUYEN Co., Ltd. rial Zone Pho Ten Dist., Thai Nguyen ım	
		Samsung Electro 302, 3 Gongdan Republic of Kore	3-ro, Gumi-si, Gyengsangbuk-do, 39388,	
Applied Standards		47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014		
Test Period		May 27, 2022 ~ June 7, 2022		
Issue date		June 23, 2022		
Test result:	Complied	oo compliant with	the applied standards	

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

Tested by : Eun-Kyung Oh

Reviewed by : Chang-Eun Park

C. E. Park

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* Not KOLAS report

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

Table of Contents

1. Report Information	3
1.1 Revision history	3
2. Summary of test results	3
2.1 Emission	3
3. General Information	3
3.1 Test facility	3
4. Test Setup configuration	4
4.1 Test Peripherals	4
4.2 EUT operating mode	5
4.3 Details of Sampling	5
4.4 Used cable description	6
4.5 Test arrangement	7
4.6 EUT Description	10
4.7 EUT Frequencies	10
4.8 Test configuration and condition	11
4.9 Measurement uncertainty	11
5. Results of individual test	12
5.1 Conducted Emission	12
5.2 Radiated Emission	18

Mobile Phone: SM-F721B

1. Report Information

1.1 Revision history

No.	Date of Issue	Revised detailed information			
Issue 0	June 10, 2022	There are no revisions and this version is basic test report			
Issue 1	June 23, 2022	Changed the highest frequency of Wi-Fi.			

X Remark

Only compliance with Part 15B (Section 15.107 Conducted limits) requirements for the receiver part of the licensed transmitter (equipment code CXX) is covered by this 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 Emission (Mains port)	47 CFR Part 15 Subpart B /	Complied
	Radiated Emission	ANSI C63.4-2014 (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, 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.

Mobile Phone: SM-F721B

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:

Description	Model No.	Serial No.	Manufacturer / Trademark	FCC ID
Mobile Phone	SM-F721B	-	SAMSUNG	A3LSMF721B
Battery	EB-BF723ABY (Sub) EB-BF724ABY (Main)	-	ATL ATL	-
Headset	AMD-20HS	-	ALMUS	-
Data Cable	EP-DN980	-	RFTECH	-
Laptop Computer	Latitude5580	1WYRYM2	Dell	DoC
Laptop Computer	Latitude5580	D3HRYM2	Dell	DoC
Laptop AC Adapter	LA65NM130	5DEA	Dell	DoC
Laptop AC Adapter	LA65NM130	5B3C	Dell	DoC
Mouse	AA-SM7PCPB	CN57BA5903634AD V8JJCD4371	SAMSUNG	DoC
Mouse	SMH-210UB	TAKGA05788Z	SAMSUNG	DoC
Router	DIR-806A	RF0F1D8018454	D-Link	DoC
Router	DIR-806A	RF0F1D8011504	D-Link	DoC
Travel Adapter	EP-TA800	R37N8LN4PW8SE3	SOLU-M	-

Mobile Phone: SM-F721B

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 (small display) + Charging (w/ TA)
3	Camera Front (large display) + Charging (w/ TA)
4	Audio + Video playback from internal memory + Charging (w/ TA)
5	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 (small display) (w/ Headset)
3	Camera Front (large display) (w/ Headset)
4	Audio + Video playback from internal memory (w/ Headset)
5	USB Data Communication with PC (from internal memory data)

4.3 Details of Sampling

Customer selected, single unit.

Mobile Phone: SM-F721B

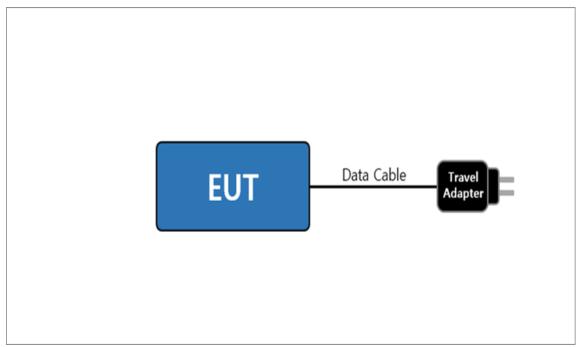
4.4 Used cable description

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:

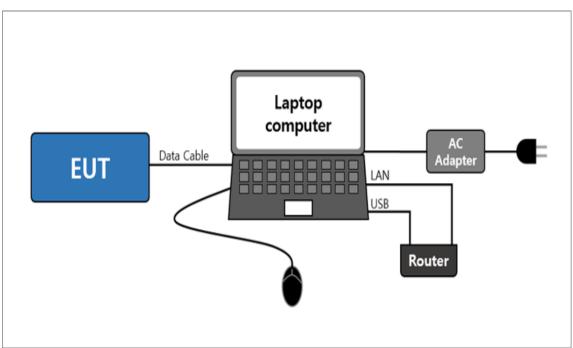
Connected cable	Length [m]	Shielded [Y/N]	Note	
Data Cable	1.0	Y	From EUT to Laptop Computer or Travel Adapter	
Headset	1.2	N	For EUT	
Power	1.8	N	From Laptop Computer to AC Adapter	
Power	1.5	N	For Laptop AC Adapter	
LAN	1.5	N	From Laptop Computer to Router	
USB	0.8	Y	From Laptop Computer to Router for DC Power	
USB	1.8	Y	From Laptop Computer to Mouse	

4.5 Test arrangement

4.5.1 Conducted Emission

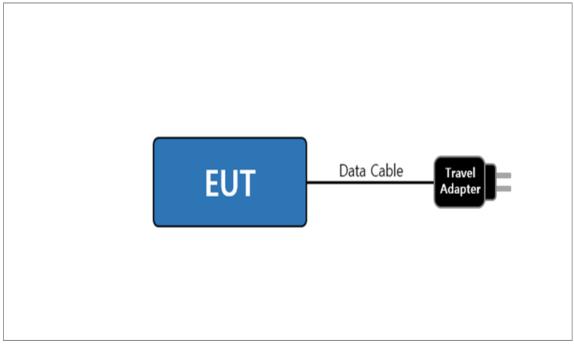


[Mode 1 – 4]

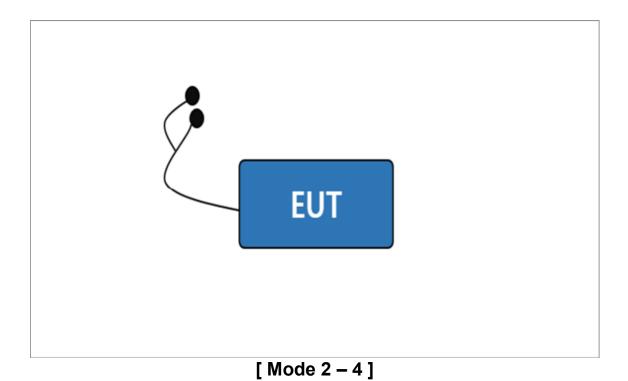


[Mode 5]

4.5.2 Radiated Emission

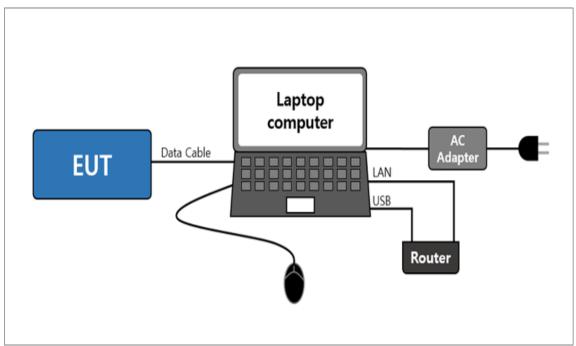


[Mode 1]



-8/29-

Mobile Phone: SM-F721B



[Mode 5]

Mobile Phone: SM-F721B

4.6 EUT Description

The EUT is a foldable type mobile phone which can operate on GSM 850/900/1800/1900, WCDMA FDD 1/2/4/5/8, LTE FDD 1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/32/66, LTE TDD 38/39/40/41, 5G NR n1/2/3/5/7/8/12/20/25/28/38/40/41/66/75/77/78 and incorporates a Bluetooth, Wi-Fi (802.11 b/g/n/a/ac/ax), Camera, Audio, Video, GNSS, NFC, Wireless Charging and Wireless power sharing.

4.6.1 The variant models

- None

4.7 EUT Frequencies

The highest frequencies (Generated and used)	Frequency [MHz]	
Wi-Fi	5 885	

Mobile Phone: SM-F721B

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 for AC conducted emission test 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(1 kHz sound) 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)

Test	type	Measurement uncertainty (C.L. approximately 95 %, <i>k</i> = 2)	
Conducted Emission	AC Mains	2.83 dB	
Radiated Emission	Horizontal	4.15 dB	
(Below 1 GHz)	Vertical	4.51 dB	
Radiated Emission	Horizontal	4.99 dB	
(Above 1 GHz)	Vertical	4.99 dB	

^{*} Remark

1) The values for uncertainty of conducted and radiated emissions are less than the Corresponding values of Ucispr given in CISPR 16-4-2. Therefore no adjustment of measurement results is necessary when comparing them with the relevant limits.

Mobile Phone: SM-F721B

5. Results of individual test

5.1 Conducted Emission

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 emission at the mains ports of Class B

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

EMC		Model	Manufacturer	Serial No.	Next Calibration	
No.	Test Instrument	name			Date	Interval (Month)
E5I-006	LTE Communicator	CMW500	R&S	132728	2023-04-12	12
E5I-127	Two-Line V-Network	ENV216	R&S	102061	2023-01-17	12
E5I-018	EMI Test Receiver	ESU8	R&S	100484	2023-05-26	12
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

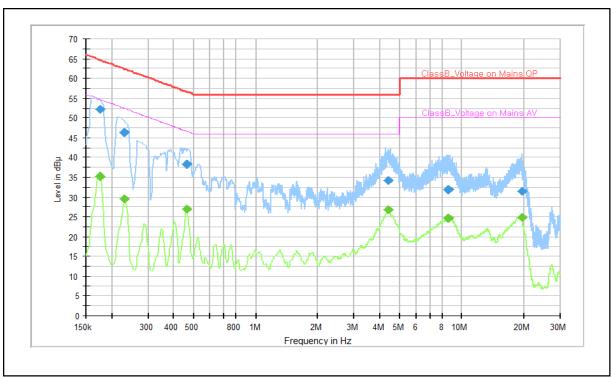
5.1.2 Temperature and humidity condition

Test date	2022-06-07	Test engineer	Eun-Kyung Oh	
	Ambient temperature	(23.4 ± 0.5) °C	Limit (15.0 to 35.0) °C	
Climate condition	Humidity	(37.3 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.	
	Atmospheric pressure	(100.3 ± 0.5) kPa	Limit (86.0 to 106.0) kPa	
Test place		Shield Room (SR8	3)	

Mobile Phone: SM-F721B

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:

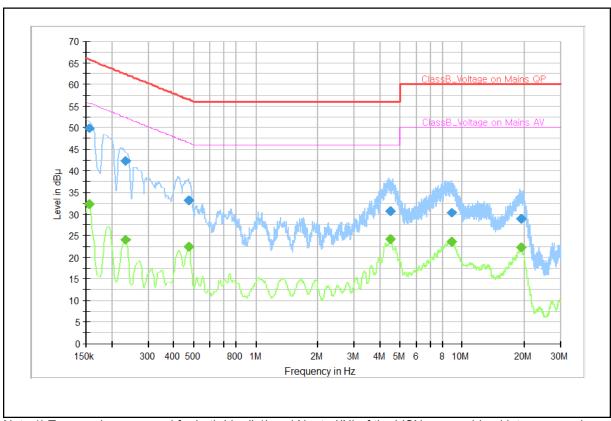
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.175		35.1	54.7	19.6	L1	10.3
0.175	52.3		64.7	12.4	L1	10.3
0.231		29.5	52.4	22.9	N	9.9
0.231	46.4		62.4	16.0	N	9.9
0.463	27.0		46.6	46.6 19.7	N	10.1
0.463	38.4		56.6	18.3	N	10.1
4.394		26.9	46.0	19.1	N	10.0
4.394	34.2		56.0	21.8	N	10.0
8.619		24.6	50.0	25.4	N	10.2
8.619	31.9		60.0	28.1	N	10.2
19.529		24.8	50.0	25.2	N	10.7
19.529	31.6		60.0	28.4	N	10.7

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 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:

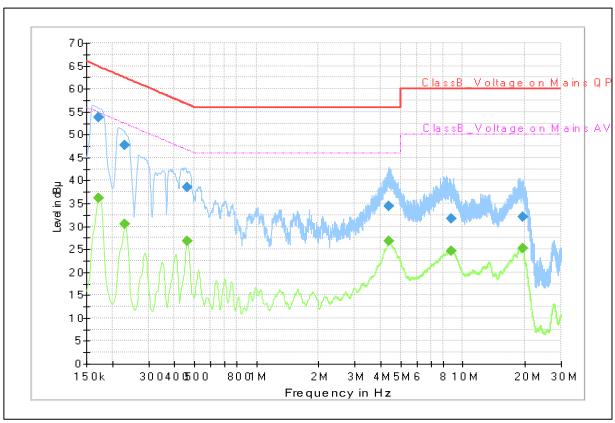
Frequency (MHz)	QP (dBµV)	CAV (dBµV)			Line	Corr. (dB)
0.155	49.9		65.8	15.9	N	10.0
0.155		32.3	55.8	23.5	N	10.0
0.233		24.1	52.3	28.2	N	9.9
0.233	42.2		62.3	20.2	N	9.9
0.474		22.4	2.4 46.4 24.0		N	10.1
0.474	33.1		56.4	23.3	N	10.1
4.477		24.3	46.0	21.7	N	10.0
4.477	30.8		56.0	25.2	N	10.0
8.948		23.7	50.0	26.3	N	10.2
8.948	30.4		60.0	29.6	N	10.2
19.246		22.2	50.0	27.8	N	10.7
19.246	28.9		60.0	31.1	N	10.7

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:

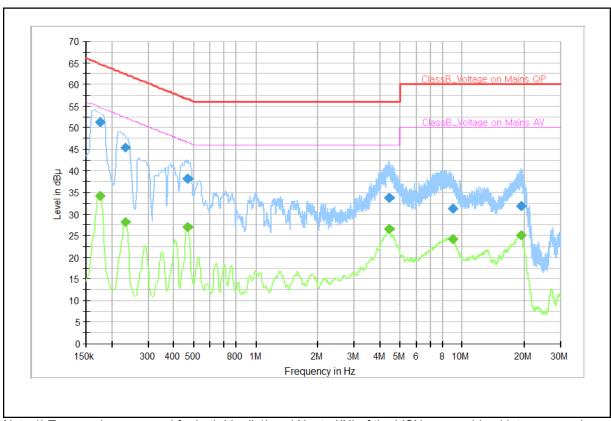
Frequency (MHz)	QP (dBµV)	-		Limit Margin (dBµV) (dB)		Corr. (dB)	
0.173		36.3	54.8	18.6	L1	10.3	
0.173	53.8		64.8	11.1	L1	10.3	
0.231		30.5	52.4	21.9	N	9.9	
0.231	47.7		62.4	14.7	N	9.9	
0.463		26.8	46.6	19.8	N	10.1	
0.463	38.6		56.6	18.0	N	10.1	
4.376		26.9	46.0	19.1	N	10.0	
4.376	34.4		56.0	21.6	N	10.0	
8.790		24.6	50.0	25.4	N	10.2	
8.790	31.8		60.0	28.2	N	10.2	
19.484		25.2	50.0	24.8	N	10.7	
19.484	32.1		60.0	27.9	N	10.7	

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:

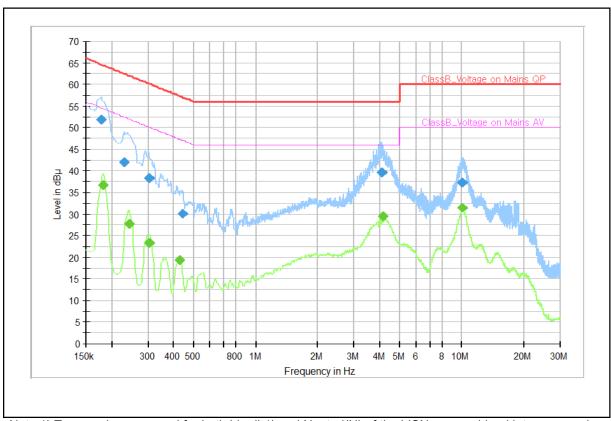
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	3		Line	Corr. (dB)	
0.175		34.2	54.7	20.6	L1	10.3	
0.175	51.3		64.7	13.5	L1	10.3	
0.233	45.5		62.3	16.9	L1	9.9	
0.233		28.1	52.3	24.3	L1	9.9	
0.467		27.0	46.6	19.5	N	10.1	
0.467	38.1		56.6	18.5	N	10.1	
4.423		26.5	46.0	19.5	N	10.0	
4.423	33.8		56.0	22.2	N	10.0	
8.970		24.3	50.0	25.7	N	10.2	
8.970	31.4		60.0	28.6	N	10.2	
19.433		25.0	50.0	25.0	N	10.7	
19.433	31.8		60.0	28.2	N	10.7	

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)
0.177	51.8		64.6	12.8	L1	10.1
0.182		36.7	54.4	17.7	N	10.0
0.231	42.0		62.4	20.4	L1	9.8
0.242		27.7	52.0	24.3	N	9.8
0.303		23.2	50.2	27.0	N	9.8
0.305	38.4		60.1	21.7	L1	9.8
0.427		19.3	47.3	28.0	L1	10.0
0.443	30.1		57.0	27.0	L1	10.0
4.092	39.7		56.0	16.3	N	9.8
4.128		29.5	46.0	16.5	N	9.8
10.025	37.3		60.0	22.7	L1	9.9
10.097		31.4	50.0	18.6	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-F721B

5.2 Radiated Emission

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]	_		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]	<u> </u>		Video Bandwidth [MHz]	Turntable position [degrees]	
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 emission of Class B 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 D1(3m) to D2(10m)

: Limit at D2 = Limit at D1 + 20Log(D1/D2)

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

Mobile Phone: SM-F721B

5.2.1 Test instrumentation

ЕМС		Model			Next Calib	oration
No.	Test Instrument	name	Manufacturer	Serial No.	Date	Interval (Month)
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2023-01-28	12
E5I-020	EMI Test Receiver	ESU40	R&S	100375	2022-09-23	12
E5I-069	BiLog Antenna	CBL6112D	TESEQ	35382	2023-08-09	24
E5I-138	6 dB Fixed Attenuator	8491A	Keysight	MY52462285	2023-08-09	24
E5I-071	BiLog Antenna	CBL6112D	TESEQ	35384	2023-08-09	24
E5I-136	6 dB Fixed Attenuator	8491A	Keysight	MY52462355	2023-08-09	24
E5I-073	Preamplifier	310N	SONOMA	332016	2023-05-02	12
E5I-074	Preamplifier	310N	SONOMA	332017	2023-05-02	12
E5I-035	Horn Antenna	HF907	R&S	100506	2022-09-28	12
E5I-039	Signal Conditioning Unit	SCU-18	R&S	10211	2023-04-18	12
E5I-243	WideBand Horn Antenna	QMS-00880	STEATITE	25187	2022-11-17	12
E5I-042	Signal Conditioning Unit	SCU-40A	R&S	10004	2022-09-10	12
-	Test software	EP7RE	TOYO	Ver 8.0.20	-	-
-	Test software	EMC32	R&S	Ver 9.25.00	-	-

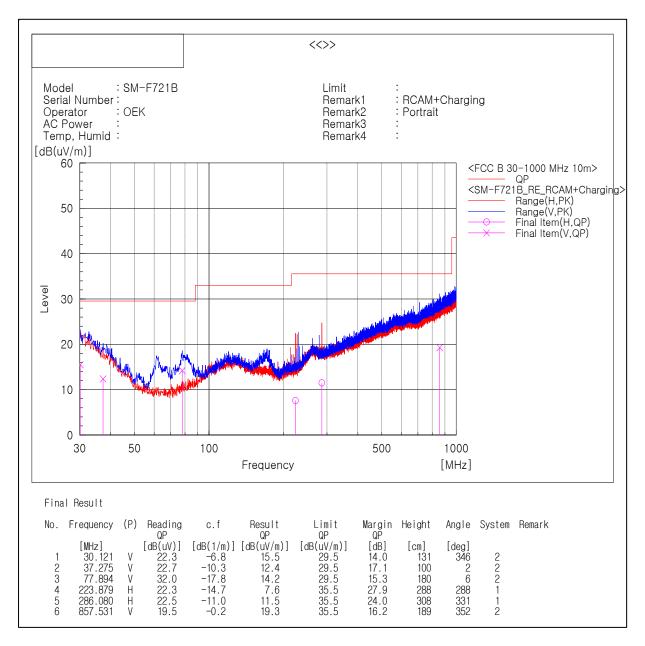
5.2.1 Temperature and humidity condition

Test date	2022-05-27	Test engineer	Eun-Kyung Oh		
	Ambient temperature	(23.2 ± 0.5) °C	Limit (15.0 to 35.0) °C		
Climate condition	Humidity	(46.1 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.		
	Atmospheric pressure	(99.8 ± 0.5) kPa	Limit (86.0 to 106.0) kPa		
Test place	Semi-Anechoic Chamber (SAC5)				

5.2.3 Test Results

□ Operating Mode 1

- Frequencies below 1 GHz



Note1) Receiving antenna polarization: Horizontal, Vertical

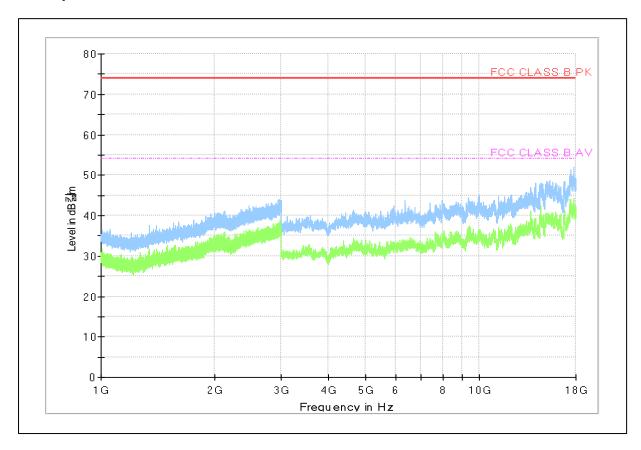
Test Distance: 10 m, Antenna Height: 1 to 4 meters

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

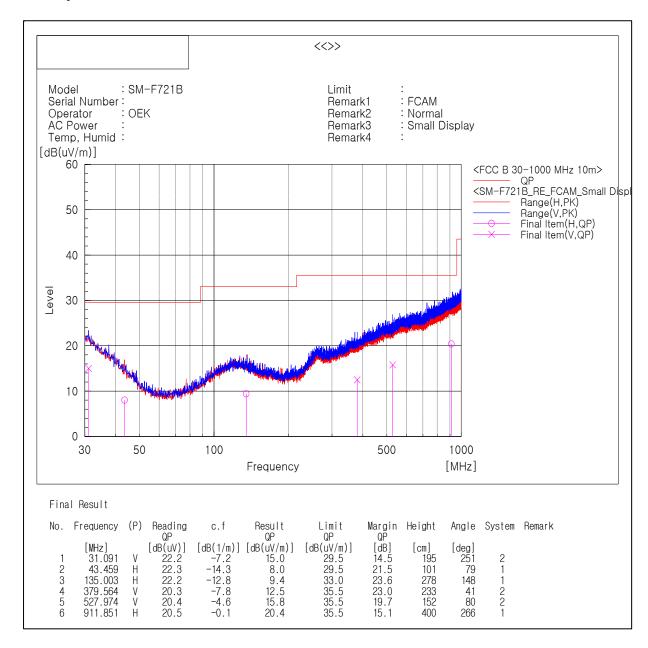
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

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

□ Operating Mode 2

- Frequencies below 1 GHz



Note1) Receiving antenna polarization: Horizontal, Vertical

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

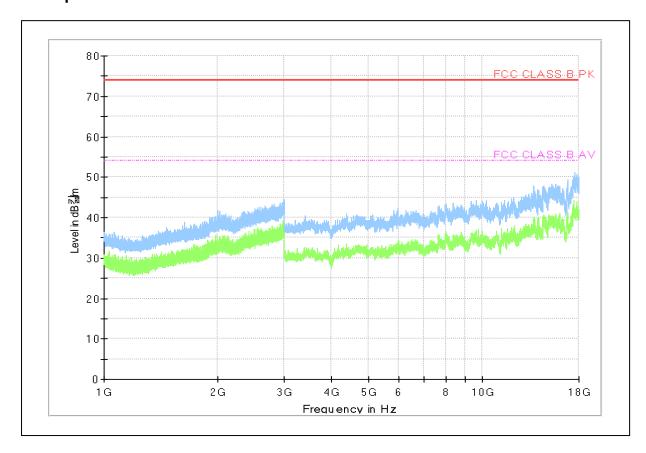
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

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

Mobile Phone: SM-F721B

- 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

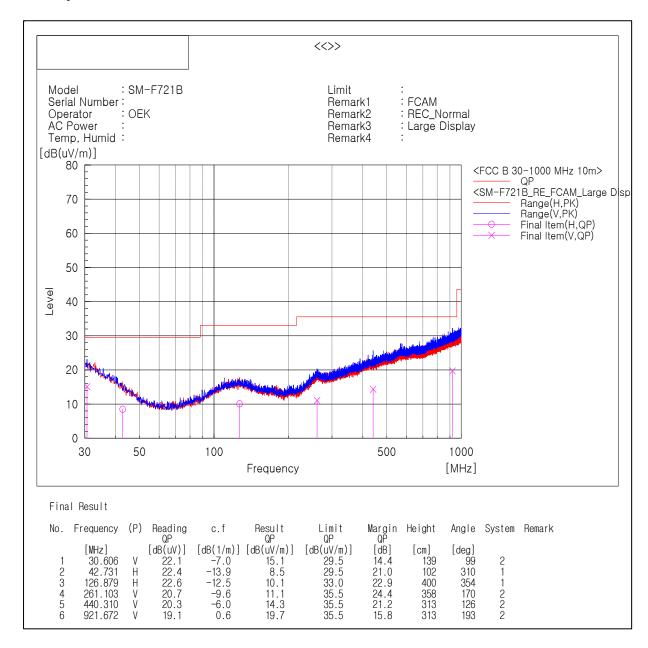
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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



Note1) Receiving antenna polarization: Horizontal, Vertical

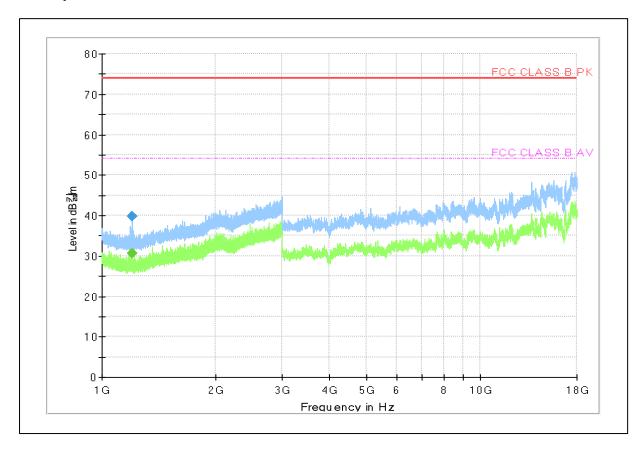
Test Distance : 10 m, Antenna Height : 1 to 4 meters

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)
1 200.000		30.64	54.00	23.36	100.0	Н	20.0	6.99
1 200.000	39.77		74.00	34.23	100.0	Η	20.0	6.99

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

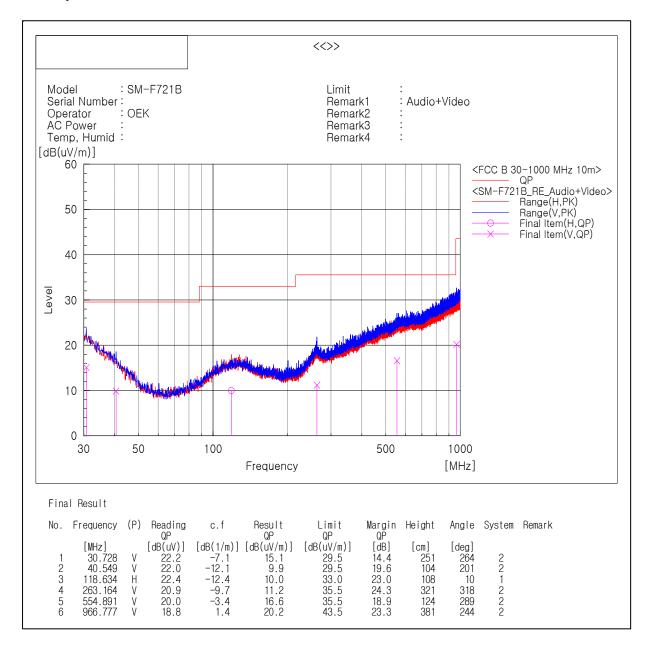
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

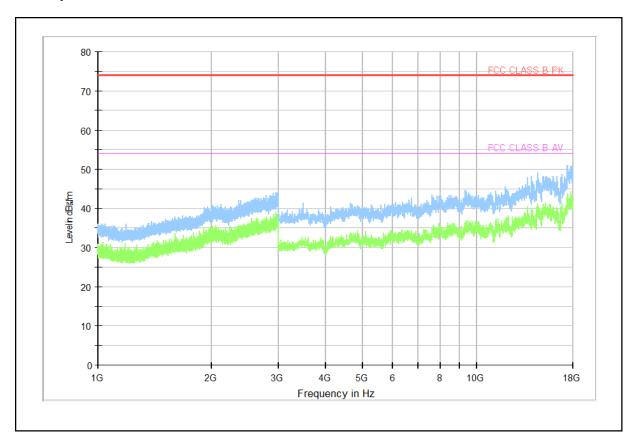
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

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

Mobile Phone: SM-F721B

- 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

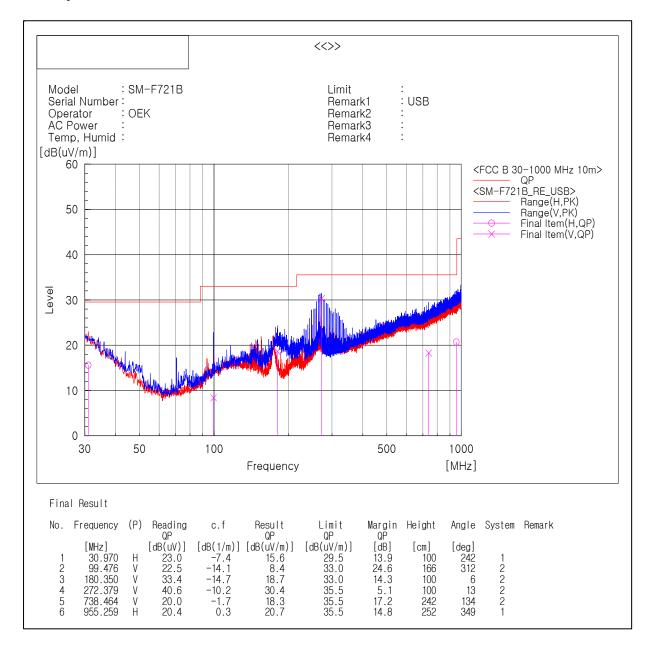
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

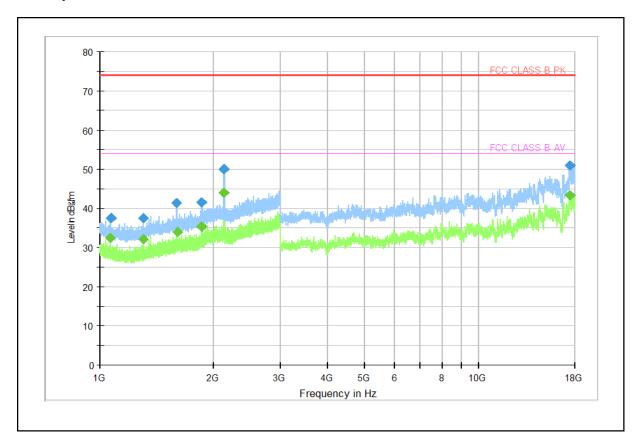
Test Distance : 10 m, Antenna Height : 1 to 4 meters

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/m)	CAV (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 062.800		32.34	54.00	21.66	109.0	Н	315.0	7.31
1 066.800	37.64		74.00	36.36	101.2	V	70.0	7.28
1 301.400		32.17	54.00	21.83	102.5	V	0.0	7.81
1 301.400	37.48		74.00	36.52	102.4	V	0.0	7.81
1 595.400	41.38		74.00	32.62	100.6	V	133.0	10.84
1 597.600		33.94	54.00	20.06	100.8	V	138.0	10.86
1 861.000	41.53		74.00	32.47	101.4	V	0.0	12.18
1 861.000		35.29	54.00	18.71	101.1	V	0.0	12.18
2 124.400	50.01		74.00	23.99	101.9	V	341.0	13.83
2 124.400		43.98	54.00	10.02	101.7	V	341.0	13.83
17 418.000		43.30	54.00	10.70	102.0	Н	75.0	36.88
17 442.000	50.98		74.00	23.02	102.1	Н	205.0	36.73

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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