EMC TEST REPORT

Project No.	LBE20230323	Issue No.	1	
Applicant	Name of organization	Samsung Elect	ronics Co., Ltd.	
	Address	(Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea		
	Date of receipt	June 12, 2023		
	Type of device	Class B pers	eivers subject to Part 15 sonal computers and peripherals B digital devices and peripherals ast Receiver	
	Equipment authorization	■ Certification □ Supplier's Declaration of Conformit		
	FCC ID	A3LSMS711B		
	Kind of product	Mobile Phone		
EUT	Model No.	SM-S711B/DS		
	Variant Model No.	Refer to clause 4.6		
	Manufacturer	Samsung Electronics Vietnam Co., Ltd. Yenphong 1 - I.P Yentrung Commune, Yenphong Disting Bac Ninh Province, Vietnam Samsung Electronics Vietnam THAI NGUYEN Co. Yen Binh Industrial Zone Pho Ten Dist., Thai Nguyen Province, Vietnam Samsung Electronics Co., LTD. 302, 3 Gongdan 3-ro, Gumi-si, Gyengsangbuk-do, 39 Republic of Korea		
Applied Standards		47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014		
Test Period .		June 16, 2023 ~ July 6, 2023		
Issue date		August 22, 2023		

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. J. Kim

Reviewed by : Chang-Eun Park

C. E-Park

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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	July 20, 2023	There are no revisions and this version is basic test report.			
Issue 1	August 22, 2023	The operating bands on clause 4.6 was modified.			

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.

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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:

Description	Description Model No.		Manufacturer / Trademark	FCC ID	
Mobile Phone	SM-S711B/DS	-	SAMSUNG	A3LSMS711B	
Headset	YBD-19HS	-	CRESYN	-	
Data Cable	EP-DN980	-	RF TECH	-	
Laptop Computer	Latitude5580	1CHRYM2	Dell	DoC	
Laptop Computer	Latitude5580	1WYRYM2	Dell	DoC	
Laptop Computer	Latitude5580	D3HRYM2	Dell	DoC	
Laptop AC Adapter	LA65NM130	5D77	Dell	DoC	
Laptop AC Adapter	LA65NM130	5DEA	Dell	DoC	
Laptop AC Adapter	LA65NM130	5B3C	Dell	DoC	
Mouse	AA-SM7PCPB	CNBA5903634ADV8 J3211309	SAMSUNG	DoC	
Mouse	AA-SM7PCPB	CN57BA5903634AD V8JJCD4371	SAMSUNG	DoC	
Mouse	Mouse SMH-210UB TAk		SAMSUNG	DoC	
Router	Router DIR-806A RF0F		D-Link	DoC	
Router	Router DIR-806A RI		D-Link	DoC	
Router	DIR-806A	RF0F1D8011504	D-Link	DoC	
Travel Adapter	EP-TA800	R37R5DR5S38SE3	R37R5DR5S38SE3 SoluM		
DP Monitor	DP Monitor 27DU88 7		LG	DoC	
DP Monitor Power Supply	LCAP31	EH8NN62949005506 2	LG	DoC	
		BW2K1709000770	J5CREATE	-	

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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 + Charging (w/TA)
4	USB data communication with PC (from internal memory)

4.2.2 Radiated Emission

No.	Operating mode
1	Camera (Rear) + Charging (w/TA)
2	Camera (Front) (w/Headset)
3	Video + Audio playback from internal memory (w/Headset)
4	Video + Audio playback from internal memory + Display out (w/ USB to Direct DP cable)
5	USB data communication with PC (from internal memory)

4.3 Details of Sampling

Customer selected, single unit.

Mobile Phone: SM-S711B/DS

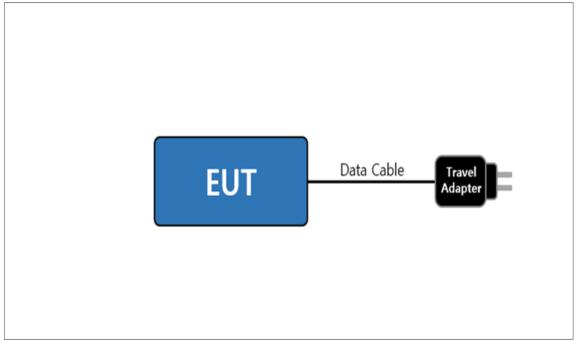
4.4 Used cable description

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:

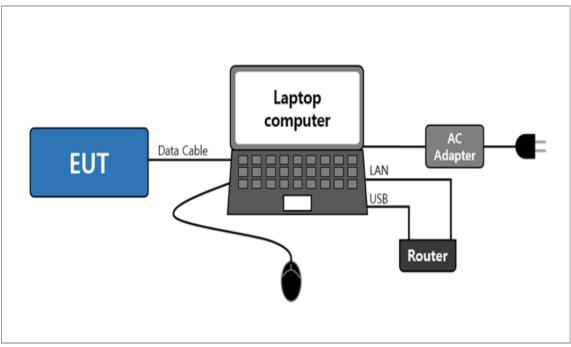
Connected cable	Length [m]	Shielded [Y/N]	Note	
Data Cable	1.0	Y	From EUT to Laptop Computer or Travel Adapter	
Headset	1.2	N	For EUT	
Power	1.8	N	From Laptop Computer to AC Adapter	
Power	1.5	N	For Laptop AC Adapter	
LAN	1.5	N	From Laptop Computer to Router	
USB	0.8	Y	From Laptop Computer to Router for DC Power	
USB	1.8	Y	From Laptop Computer to Mouse	
DP Cable	1.1	Y	From EUT to DP Monitor	
Power	1.2	N	From DP Monitor to Power Supply	
Power	2.2	N	For DP Monitor Power Supply	

4.5 Test arrangement

4.5.1 Conducted Emission

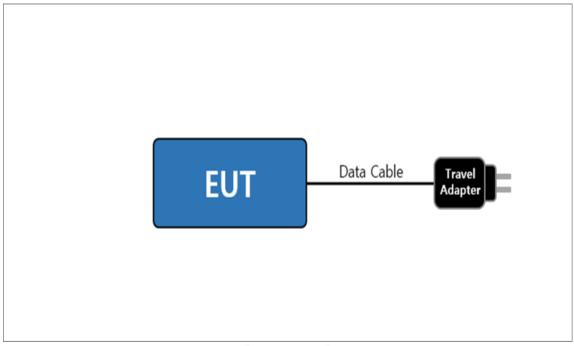


[Mode 1 – 3]

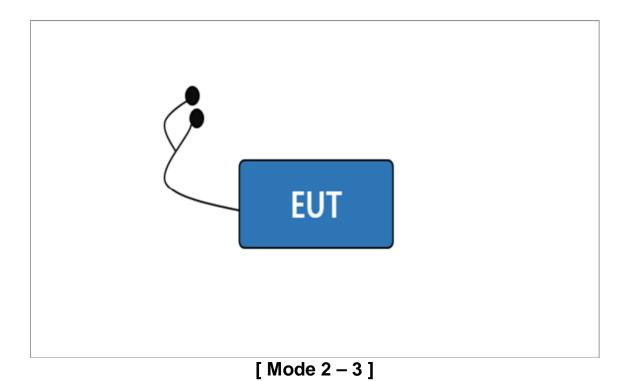


[Mode 4]

4.5.2 Radiated Emission

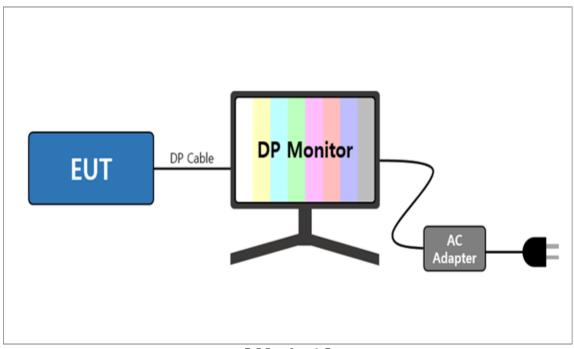


[Mode 1]

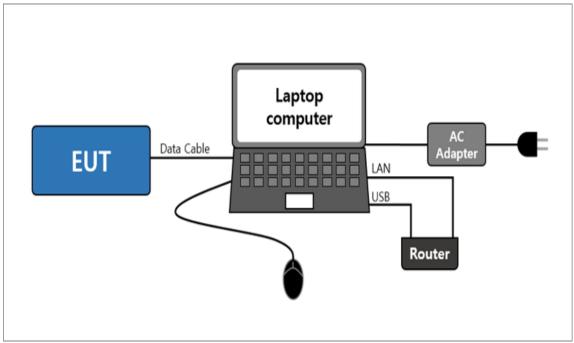


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[Mode 4]



[Mode 5]

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4.6 EUT Description

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

4.6.1 The variant models

- SM-S711B

4.7 EUT Frequencies

The highest frequencies (Generated and used)	Frequency [MHz]	
Wi-Fi	7 125	

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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.

For the AC conducted emissions test, the conducted emissions of receiver modes which operate within the frequency range of 30-960 MHz were compared through preliminary tests. However, no significant differences were found to affect the conducted emission, so the test result for one representative receiver frequency band (LTE FDD26) were reported.

The video and audio(1 kHz sound) were repetitively played with the earphone connected.

The video and audio(1 kHz sound) were played on monitor through display out function using direct DP cable.

The camera of the EUT was operated continuously.

Power source for the EUT operating was supplied by CVCF.

- 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	2.82 dB	
Radiated Emission	Horizontal	4.16 dB	
(Below 1 GHz)	Vertical	4.93 dB	
Radiated Emission	Horizontal	5.18 dB	
(Above 1 GHz)	Vertical	5.18 dB	

^{*} Remark

 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.

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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

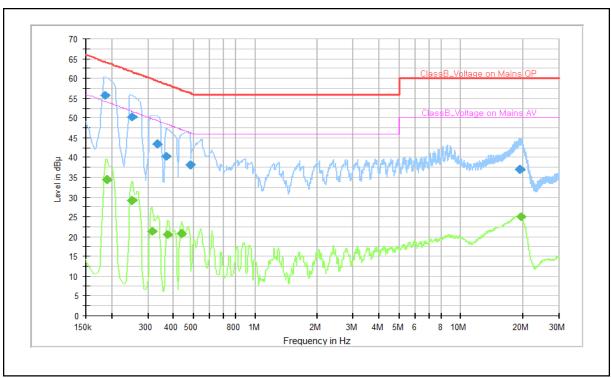
EMC		Model	Manufacturer	Serial No.	Next Calibration	
No.	Test Instrument	name			Date	Interval (Month)
E5I-006	LTE Communicator	CMW500	R&S	132728	2024-04-05	12
E5I-127	Two-Line V-Network	ENV216	R&S	102061	2024-01-20	12
E5I-247	EMI Test Receiver	ESW8	R&S	103124	2023-07-20	12
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

5.1.2 Temperature and humidity condition

Test date	2023-06-16	Test engineer	Soo-Joon Kim			
	Ambient temperature	(23.4 ± 0.5) °C	Limit (15.0 to 35.0) ℃			
Climate condition	Humidity	(46.8 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.			
	Atmospheric pressure (100.1 ± 0.5) kPa Limit (86.0 to 106.0)					
Test place	Shield Room (SR8)					

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:

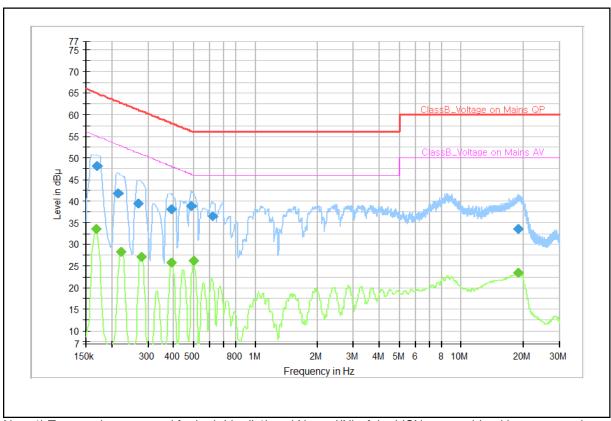
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.186	55.7		64.2	8.6	N	10.2
0.191		34.5	54.0	19.6	N	10.1
0.251		29.0	51.7	22.7	N	9.8
0.251	50.2		61.7	11.5	N	9.8
0.314		21.4	49.9	28.5	N	10.0
0.332	43.4		59.4	16.0	N	10.1
0.371	40.3		58.5	18.2	N	10.2
0.375		20.6	48.4	27.8	N	10.2
0.438		20.7	47.1	26.4	N	10.2
0.483	38.1		56.3	18.2	N	10.2
19.412	36.9		60.0	23.1	N	10.6
19.606		25.0	50.0	25.0	N	10.6

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:

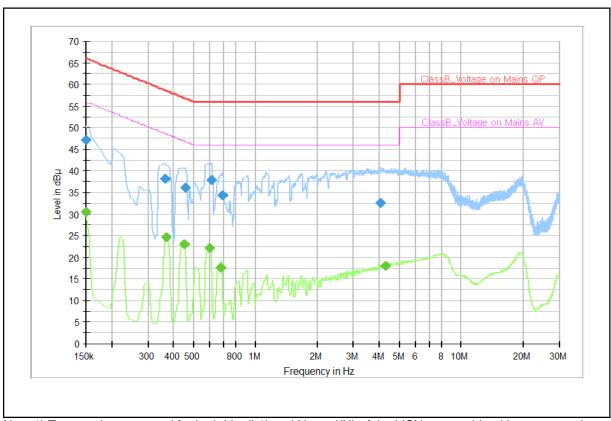
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.168		33.5	55.1	21.5	N	10.3
0.170	48.1		64.9	16.9	N	10.3
0.215	41.8		63.0	21.2	N	10.0
0.222		28.3	52.7	24.4	N	10.0
0.269	39.4		61.1	21.7	N	9.9
0.278		27.1	50.9	23.8	N	9.9
0.389	38.1		58.1	20.0	N	10.2
0.391		25.8	48.0	22.2	N	10.2
0.490	38.9		56.2	17.2	N	10.2
0.501		26.2	46.0	19.8	N	10.2
0.620	36.5		56.0	19.5	N	10.1
18.814		23.5	50.0	26.5	N	10.5
18.888	33.6		60.0	26.4	N	10.5

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.

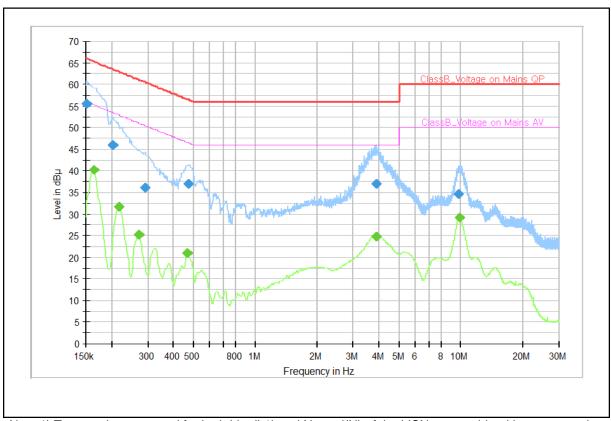
QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150		30.5	56.0	25.5	L1	10.0
0.150	47.1		66.0	18.9	N	10.0
0.364	38.1		58.6	20.6	N	10.2
0.371		24.7	48.5	23.8	L1	10.2
0.452		23.1	46.8	23.7	L1	10.2
0.456	36.3		56.8	20.5	N	10.2
0.600		22.1	46.0	23.9	L1	10.2
0.611	38.0		56.0	18.0	L1	10.2
0.681		17.7	46.0	28.3	L1	10.1
0.690	34.5		56.0	21.5	L1	10.1
4.065	32.6		56.0	23.4	L1	10.0
4.268		18.0	46.0	28.0	L1	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)
0.152	55.5		65.9	10.4	N	9.9
0.164		40.3	55.3	15.0	L1	10.1
0.204	45.9		63.4	17.6	L1	9.9
0.218		31.7	52.9	21.2	L1	9.9
0.272		25.1	51.1	25.9	L1	9.8
0.292	36.1		60.5	24.4	L1	9.8
0.467		20.9	46.6	25.6	L1	10.0
0.472	37.0		56.5	19.5	L1	10.0
3.858		24.9	46.0	21.1	N	9.8
3.860	37.0		56.0	19.0	N	9.8
9.695	34.6		60.0	25.4	L1	9.8
9.836		29.1	50.0	20.9	L1	9.8

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

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

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

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5.2 Radiated 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]	Antenna Polarization	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]			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	500 54.0 43.5				

Note) Distance correction formula 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.

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5.2.1 Test instrumentation

EMC		Model			Next Calib	oration
No.	Test Instrument	name	Manufacturer	Serial No.	Date	Interval (Month)
E5I-015	EMI Test Receiver	ESU8	R&S	100481	2023-06-29	12
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2024-01-30	12
E5I-020	EMI Test Receiver	ESU40	R&S	100375	2023-09-28	12
E5I-017	EMI Test Receiver	ESU8	R&S	100483	2024-01-27	12
E5I-248	EMI Test Receiver	ESW44	R&S	103129	2023-07-20	12
E5I-121	BiLog Antenna	CBL6112D	TESEQ	36999	2023-07-12	24
E5I-137	6 dB Fixed Attenuator	8491A	Keysight	MY52462298	2023-07-12	24
E5I-070	BiLog Antenna	CBL6112D	TESEQ	35383	2023-07-12	24
E5I-228	6 dB Fixed Attenuator	8491B-006	Agilent	58358	2023-07-12	24
E5I-073	Preamplifier	310N	SONOMA	332016	2024-04-05	12
E5I-074	Preamplifier	310N	SONOMA	332017	2024-04-05	12
E5I-035	Horn Antenna	HF907	R&S	100506	2023-10-25	12
E5I-039	Signal Conditioning Unit	SCU-18	R&S	10211	2024-04-05	12
E5I-243	WideBand Horn Antenna	QMS-00880	STEATITE	25187	2023-11-23	12
E5I-042	Signal Conditioning Unit	SCU-40A	R&S	10004	2023-09-21	12
-	Test software	EP7RE	TOYO	Ver 8.0.20	-	-
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

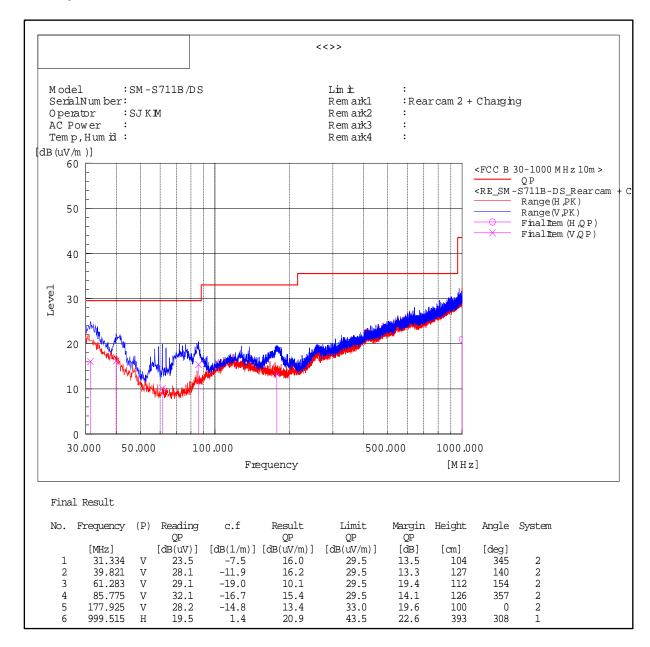
5.2.1 Temperature and humidity condition

Test date	2023-06-26 ~ 2023-07-06	Test engineer	Soo-Joon Kim				
	Ambient temperature	(22.2 ± 0.5) °C	Limit (15.0 to 35.0) °C				
Climate condition	Humidity	(53.4 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.				
	Atmospheric pressure	Limit (86.0 to 106.0) kPa					
Test place	Semi-A	Semi-Anechoic Chamber (SAC4 and 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

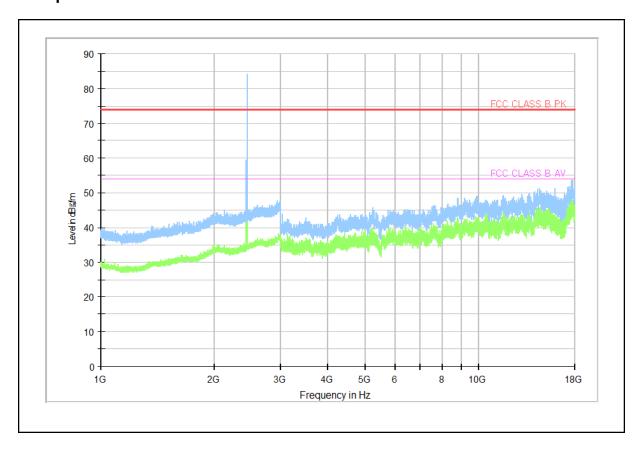
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

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

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- Frequencies above 1 GHz



Note 1) We have also tested from 18 GHz to 40 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)

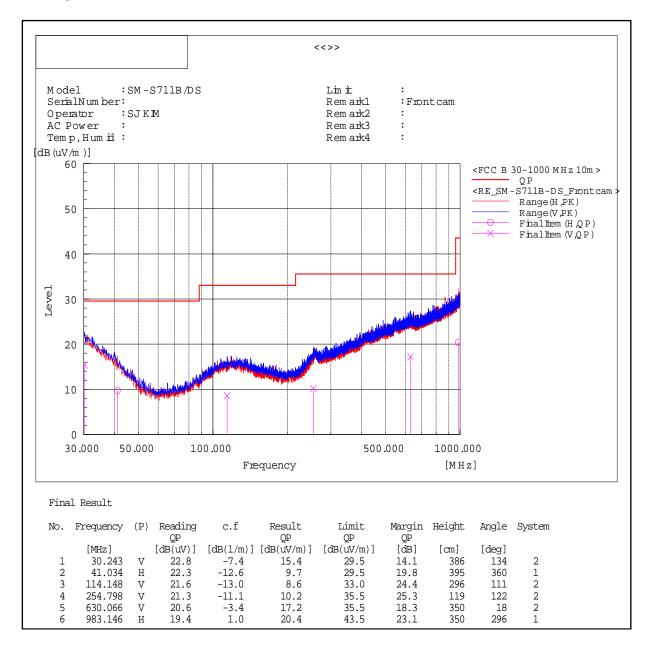
PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

Note 3) Radiated emissions (Tx / Rx frequency) from the transceiver shall be ignored.

- Data transmission in the 2.4 GHz ISM band (Bluetooth/Wi-Fi)
- : Operating frequencies (2 400 ~ 2 483.5) MHz

□ Operating Mode 2

- Frequencies below 1 GHz



Note1) Receiving antenna polarization: Horizontal, Vertical

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

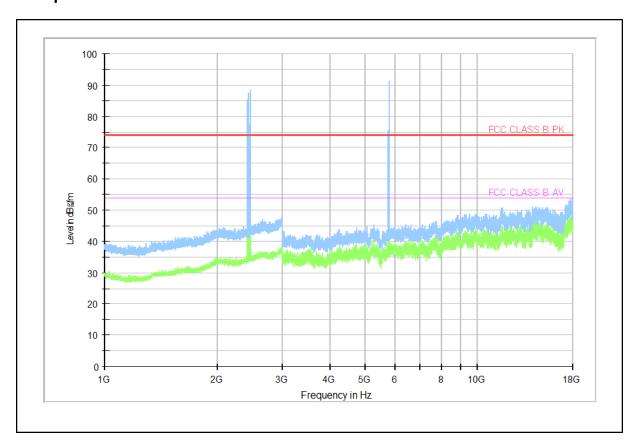
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

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

Mobile Phone: SM-S711B/DS

- Frequencies above 1 GHz



Note 1) We have also tested from 18 GHz to 40 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)

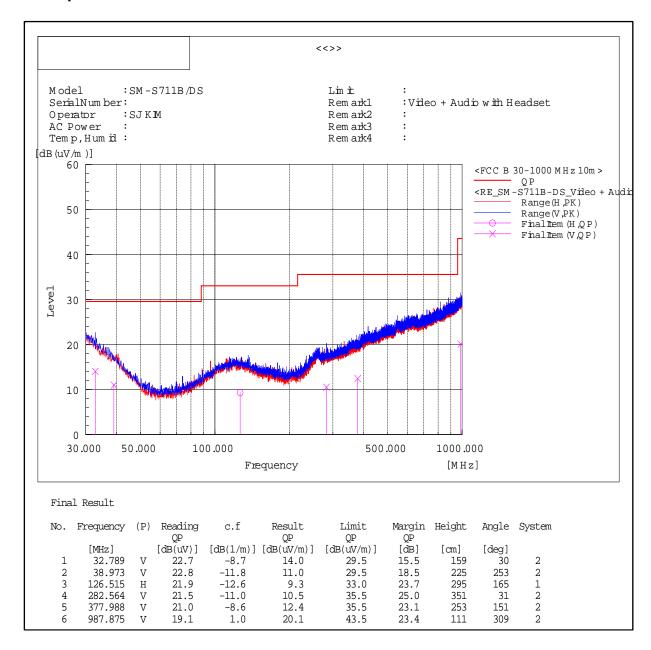
PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

Note 3) Radiated emissions (Tx / Rx frequency) from the transceiver shall be ignored.

- Data transmission in the 2.4 GHz ISM band (Bluetooth/Wi-Fi) and 5 GHz RLAN
- : Operating frequencies (2 400 ~ 2 483.5) MHz and (5 150 ~ 5 850) MHz

□ Operating Mode 3

- Frequencies below 1 GHz



Note1) Receiving antenna polarization: Horizontal, Vertical

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

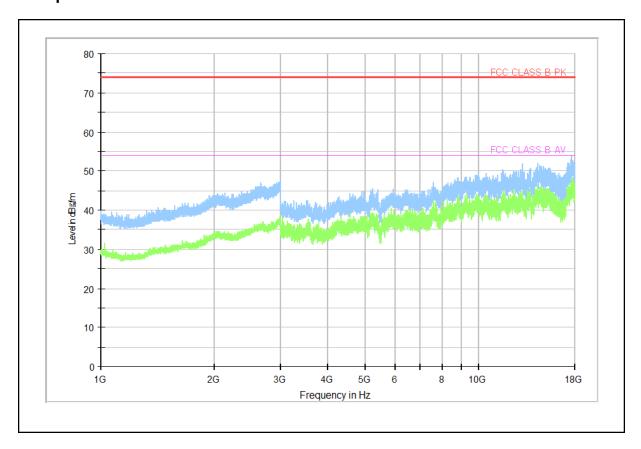
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

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

Mobile Phone: SM-S711B/DS

- Frequencies above 1 GHz



Note 1) We have also tested from 18 GHz to 40 GHz and found no emissions.

Note 2) Receiving antenna polarization: Horizontal, Vertical

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

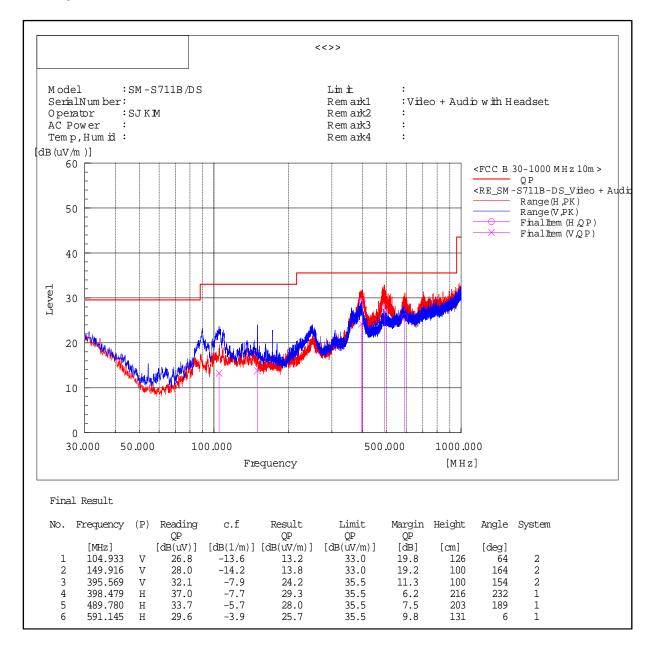
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

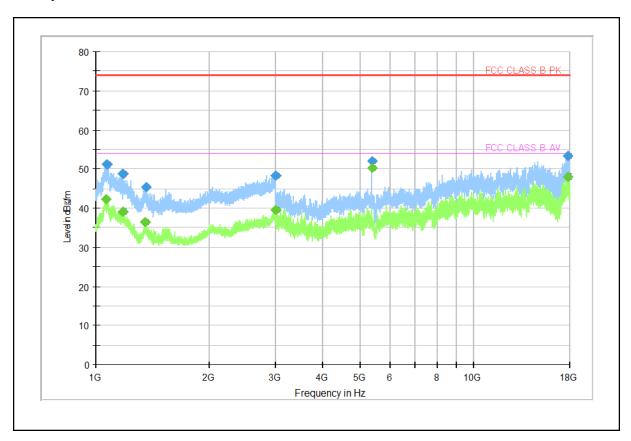
Test Distance: 10 m, Antenna Height: 1 to 4 meters

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



Frequency (MHz)	PK (dBµV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 066.200		42.27	54.00	11.73	100.50	Н	225.00	10.10
1 072.000	51.19		74.00	22.81	101.20	Н	225.00	10.10
1 182.000		39.18	54.00	14.82	100.00	Н	263.00	9.90
1 182.200	48.64		74.00	25.36	101.00	Н	263.00	9.90
1 352.200		36.53	54.00	17.47	100.30	Н	121.00	11.60
1 356.200	45.27		74.00	28.73	100.00	Н	128.00	11.70
2 986.800		39.47	54.00	14.53	100.90	Н	128.00	21.20
2 994.400	48.37		74.00	25.63	102.70	Н	101.00	21.40
5 400.000		50.22	54.00	3.78	103.80	Н	122.00	12.10
5 400.000	52.16		74.00	21.84	102.40	Н	122.00	12.10
17 757.000		48.09	54.00	5.91	100.00	V	128.00	39.60
17 829.000	53.36		74.00	20.64	100.00	V	1.00	40.70

Note 1) We have also tested from 18 GHz to 40 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)

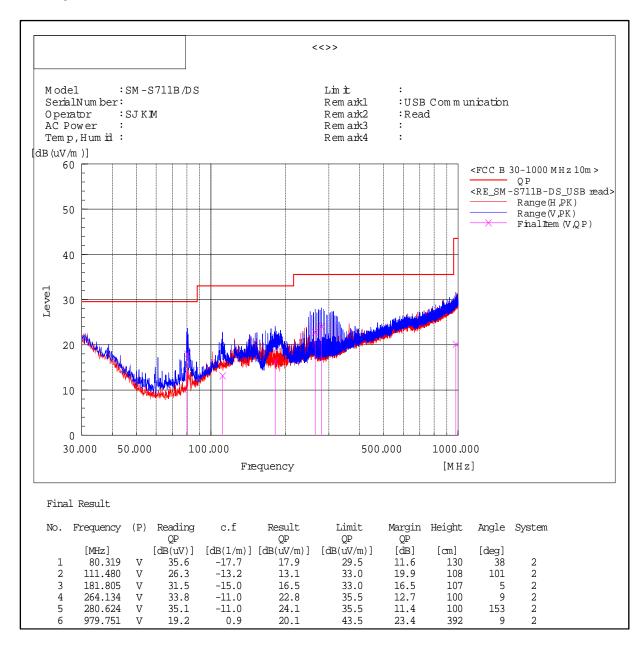
Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

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

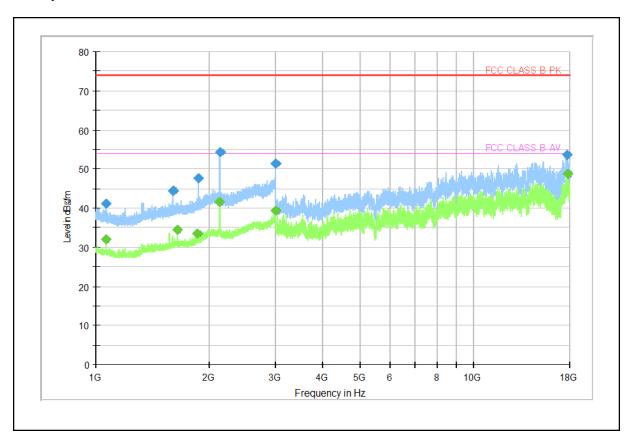
Test Distance: 10 m, Antenna Height: 1 to 4 meters

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)
1 062.400		31.93	54.00	22.07	100.90	Н	349.00	10.10
1 063.600	41.03		74.00	32.97	100.00	Н	349.00	10.10
1 599.000	44.39		74.00	29.61	103.10	V	136.00	13.70
1 642.400		34.44	54.00	19.56	100.70	V	325.00	14.00
1 860.800		33.59	54.00	20.41	100.00	V	20.00	15.20
1 863.600	47.64		74.00	26.36	100.10	V	6.00	15.30
2 126.200		41.51	54.00	12.49	101.40	V	276.00	17.00
2 133.400	54.38		74.00	19.62	100.20	V	26.00	16.90
2 999.000	51.50		74.00	22.50	101.80	V	160.00	21.40
2 999.000		39.31	54.00	14.69	102.10	V	160.00	21.40
17 710.000	53.65		74.00	20.35	100.00	Н	324.00	40.10
17 807.500		48.70	54.00	5.30	100.00	V	54.00	40.80

Note 1) We have also tested from 18 GHz to 40 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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