EMC TEST REPORT					
Project No.	LBE20220096	Issue No. 1			
Applicant	Name of organization	Samsung Elect	ronics Co., Ltd.		
	Address		129, Samsung-ro, Yeongtong-gu, onggi-do, 16677, Korea		
	Date of receipt	February 23, 20)22		
	Type of device	Class B pers	eivers subject to Part 15 sonal computers and peripherals B digital devices and peripherals st Receiver		
	Equipment authorization	Certification	Supplier's Declaration of Conformity		
EUT	FCC ID	A3LSMA536JP	N		
	Kind of product	Mobile Phone			
	Model No.	SC-53C/SCG15			
	Variant Model No.	Refer to clause 4.6			
	Manufacturer	Samsung Electronics Vietnam THAI NGUYEN Co., Ltd Yen Binh Industrial Zone Pho Ten Dist., Thai Nguyen Province, Vietnam			
Applied Sta	andards	47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014			
Test Period		March 02, 2022 ~ March 15, 2022			
Issue date		March 18, 2022			
	: Complied ent under test has found to e attached test result for mo	•	n the applied standards.		
Tested by	: Soo-Joon Kim S. J. Mim	Reviewed by : Young-Ju Ryu			
	ults in this report only apply I, without written permission		nple. This report must not be reproduced, center. * Not KOLAS report		
(Maeta	•		., Global CS Center uwon-Si,Gyeonggi-Do 16677, Korea		

Mobile Phone: SC-53C/SCG15

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1. Report Information

1.1 Revision history

No.	Date of Issue	Revised detailed information			
Issue 0	March 17, 2022	There are no revisions and this version is basic test report.			
Issue 1	March 18, 2022	5G NR n41/77 band was added in clause 4.6.			

※ 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.

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	SC-53C/SCG15	-	SAMSUNG	A3LSMA536JPN	
Battery	EB-BA536ABY	-	SDI	-	
Headset	EO-IC100	-	BUJEON	-	
Data Cable	EP-DN980	-	RF TECH	-	
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		R37N8HT12X8DK3	Dongyang E&P	-	
Micro SD Card 64GB		-	SAMSUNG	-	

4.2 EUT operating mode

To achieve compliance applied standard specification including CXX, JAB and JBP requirement, the following mode(s) were made during compliance testing:

4.2.1 Conducted Emission

No.	Operating mode
1	Camera (Rear) + Charging (w/TA) + Cellular receiver (GSM 850 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 external memory)

4.2.2 Radiated Emission

No.	Operating mode
1	Camera (Rear) + Charging (w/TA)
2	Camera (Front) + FM(low ch.) (w/Headset)
3	FM(mid ch.) (w/Headset)
4	FM(high ch.) (w/Headset)
5	Video + Audio playback from internal memory (w/Headset)
6	USB data communication with PC (from external memory)

4.3 Details of Sampling

Customer selected, single unit.

4.4 Used cable description

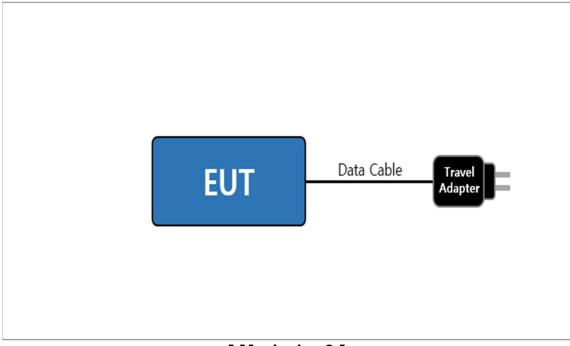
The EUT is configured, installed, arranged and operated in a manner consistent with typical applications. Interface cables/loads/devices are connected to at least one of each type of interface port of the EUT, and where practical, each cable shall be terminated in a device typical of actual usage. The type(s) of interconnecting cables to be used and the interface port (of the EUT) to which these were connected:

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	Power 1.8 N		From Laptop Computer to AC Adapter	
Power 1.5 N		N	For Laptop AC Adapter	
LAN	1.5 N Fr		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	

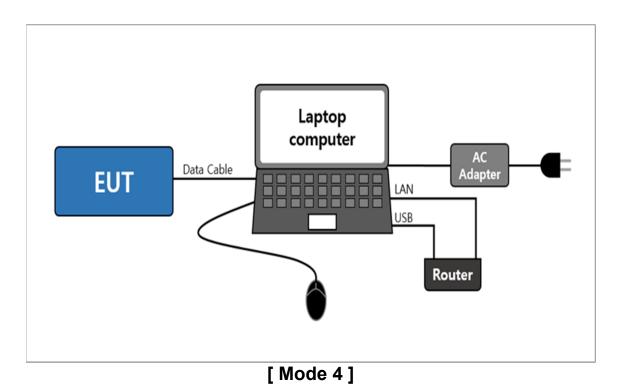
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4.5 Test arrangement

4.5.1 Conducted Emission





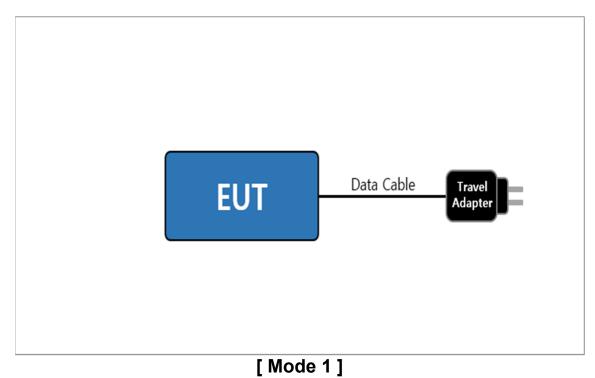


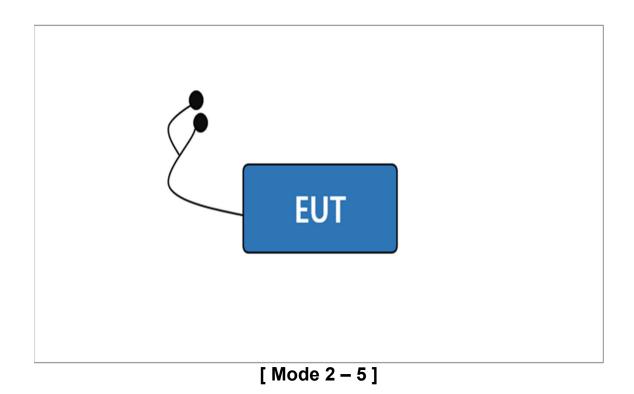
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4.5.2 Radiated Emission

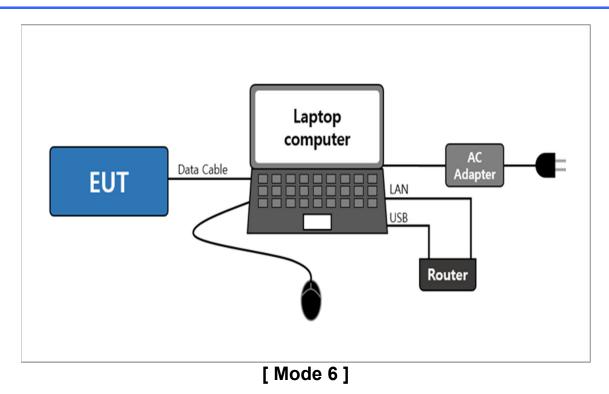




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4.6 EUT Description

The EUT is a bar type mobile phone which can operate on GSM 850/900/1800/1900, WCDMA FDD 1/5, LTE FDD 1/3/5/12/18/19/21, LTE TDD 38/39/41/42, 5G NR n1/28/41/77/78/79, and incorporates a Bluetooth, Wi-Fi (802.11 b/g/n/a/ac), Camera, Audio, Video, GNSS, FM Radio, SD Card and NFC.

4.6.1 The variant models

- None

4.7 EUT Frequencies

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

4.8 Test configuration and condition

The system was configured for testing in a typical fashion that a customer would normally use. Cables were attached to each of the available I/O Ports. Where applicable, peripherals were attached to the I/O cables.

All the external I/O ports are exercised, as well as internal and the external SD card(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 GSM850 RX Test mode at center frequency. All licensed communication (850MHz) RX mode, GSM/WCDMA/LTE, test results are not significantly different.

The FM radio mode radiated testing was performed with the Low/Mid/High channel.

The video and audio were repetitively played with 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	4.06 dB	
(Below 1 GHz)	Vertical	4.74 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.

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 worstcase data points for each tested configuration. The EUT measured in accordance with the methods described in standards.

Frequency range Limits	Resolution Bandwidth	Limits [dB(µV)]			
[MHz]	[kHz]	Quasi-peak	Average		
0.15 to 0.50	9	66 to 56	56 to 46		
0.50 to 5	9	56	46		
5 to 30	9	60	50		
NOTE 1 The lower limit shal	E 1 The lower limit shall apply at the transition frequency.				
NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.					

Limits for Conducted emission at the mains ports of Class B

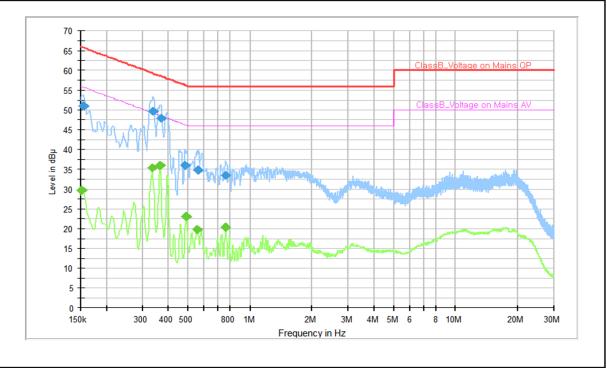
5.1.1 Test instrumentation

EMC		Model	Manufacturer	Serial No.	Next Calibration	
No.	Test Instrument	name			Date	Interval (Month)
E5I-109	Universal Radio Communicator	CMU200	R&S	110431	2022-12-08	12
E5I-127	Two-Line V-Network	ENV216	R&S	102061	2023-01-17	12
E5I-016	EMI Test Receiver	ESU8	R&S	100482	2022-06-03	12
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

5.1.2 Temperature and humidity condition

Test date	2022-03-02, 2022-03-10	Soo-Joon Kim			
	Ambient temperature	(25.2 ± 0.5) °C	Limit (15.0 to 35.0) ℃		
Climate condition	Relative humidity	(34.2 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.		
	Atmospheric pressure	(101.2 ± 0.5) kPa	Limit (86.0 to 106.0) kPa		
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.

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.152		29.6	55.9	26.2	Ν	10.0
0.155	51.0		65.8	14.8	L1	10.0
0.335		35.4	49.3	14.0	L1	10.1
0.339	49.6		59.2	9.6	L1	10.1
0.366		35.9	48.6	12.7	L1	10.2
0.371	48.0		58.5	10.5	L1	10.2
0.485	35.9		56.2	20.3	L1	10.2
0.490		23.1	46.2	23.1	L1	10.2
0.553		19.8	46.0	26.2	L1	10.2
0.562	34.8		56.0	21.2	L1	10.2
0.760	33.4		56.0	22.6	L1	10.1
0.762		20.3	46.0	25.7	L1	10.1

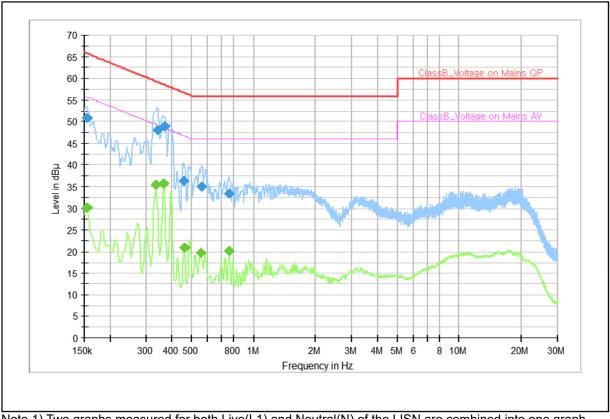
	QP / CAV fin	al measurement	results table:
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Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss) Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

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

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Operating Mode 2: AC Mains



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

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.155		30.1	55.8	25.6	L1	10.0
0.155	50.9		65.8	14.8	L1	10.0
0.335		35.4	49.3	13.9	L1	10.1
0.341	48.1		59.2	11.1	L1	10.1
0.366		35.8	48.6	12.8	L1	10.2
0.368	48.8		58.5	9.7	L1	10.2
0.458	36.4		56.7	20.3	L1	10.2
0.461		20.9	46.7	25.8	L1	10.2
0.553		19.8	46.0	26.2	L1	10.2
0.560	35.0		56.0	21.0	L1	10.2
0.760	33.5		56.0	22.5	L1	10.1
0.762		20.2	46.0	25.8	L1	10.1

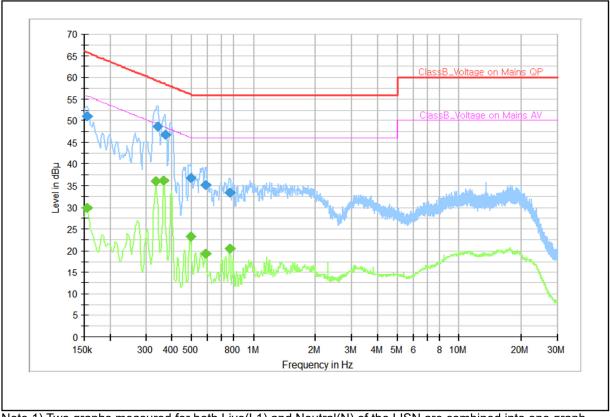
QP / CAV final measurement results tak	ole:
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Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss) Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

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

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Operating Mode 3: AC Mains



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

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.155		29.9	55.8	25.9	L1	10.0
0.155	51.0		65.8	14.8	L1	10.0
0.335		36.0	49.3	13.3	L1	10.1
0.341	48.7		59.2	10.5	L1	10.1
0.366		36.2	48.6	12.4	L1	10.2
0.373	46.7		58.4	11.7	L1	10.2
0.492		23.3	46.1	22.8	L1	10.2
0.494	36.8		56.1	19.3	L1	10.2
0.582		19.5	46.0	26.5	L1	10.2
0.584	35.2		56.0	20.8	L1	10.2
0.767		20.6	46.0	25.4	L1	10.1
0.769	33.4		56.0	22.6	L1	10.1

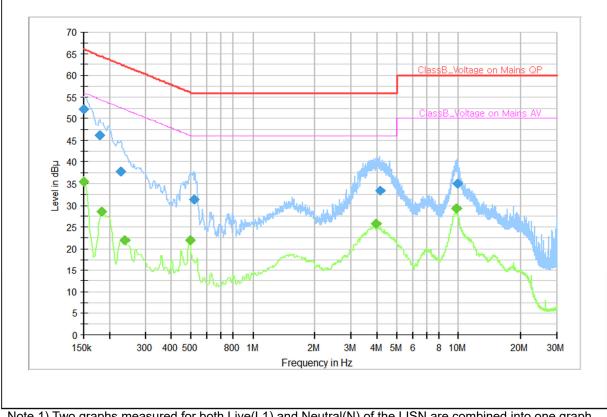
QP / CAV final measurement results tak	ole:
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Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss) Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

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

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Operating Mode 4: AC Mains



Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined	d into one graph.
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Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150	52.1		66.0	13.9	Ν	9.8
0.150		35.4	56.0	20.6	Ν	9.8
0.179	46.2		64.5	18.4	L1	10.1
0.184		28.5	54.3	25.8	L1	10.0
0.227	37.8		62.6	24.8	L1	9.8
0.238		21.9	52.2	30.2	L1	9.8
0.492		21.9	46.1	24.2	L1	10.0
0.515	31.3		56.0	24.7	L1	10.0
3.939		25.8	46.0	20.2	Ν	9.8
4.162	33.5		56.0	22.5	L1	9.8
9.695		29.4	50.0	20.6	L1	9.9
9.872	35.0		60.0	25.0	L1	9.9

QP/0	CAV final	measurement	results table:
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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]	Antenna Polarization	Resolution Bandwidth [MHz]	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.

5.2.1 Test instrumentation

ЕМС		Model			Next Cali	bration
No.	Test Instrument	name	Manufacturer	Serial No.	Date	Interval (Month)
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2023-01-28	12
E5I-018	EMI Test Receiver	ESU8	R&S	100484	2022-05-26	12
E5I-020	EMI Test Receiver	ESU40	R&S	100375	2022-09-23	12
E5I-072	BiLog Antenna	CBL6112D	TESEQ	36009	2022-05-15	24
E5I-223	6 dB Fixed Attenuator	8491B-006	Agilent	58359	2022-05-15	24
E5I-120	BiLog Antenna	CBL6112D	TESEQ	36997	2022-05-15	24
E5I-189	6 dB Fixed Attenuator	8491A	Keysight	MY52462295	2022-05-15	24
E5I-075	Preamplifier	310N	SONOMA	332018	2022-05-26	12
E5I-076	Preamplifier	310N	SONOMA	332019	2022-05-26	12
E5I-149	Horn Antenna	HF907	R&S	102525	2022-07-10	24
E5I-040	Signal Conditioning Unit	SCU-18	R&S	10210	2022-04-06	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
E5I-023	Signal Generator	SMB100A	R&S	175857	2023-01-28	12
-	Test software	EP7RE	ΤΟΥΟ	Ver 8.0.20	-	-
-	Test software	EMC32	R&S	Ver 9.25.00	-	-

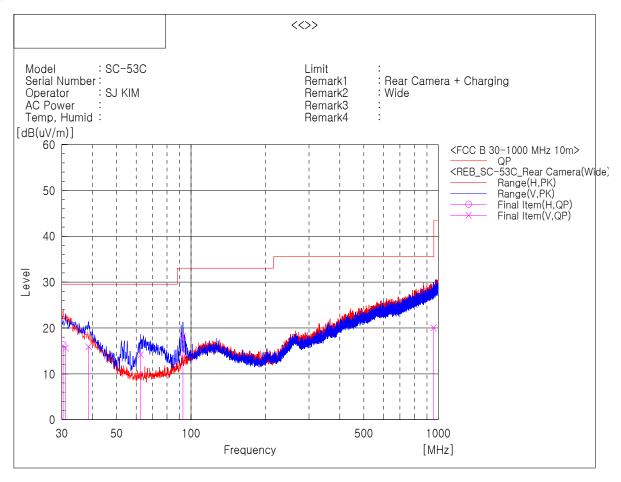
5.2.1 Temperature and humidity condition

Test date	2022-03-04, 2022-03-07, 2022-03-15	Test engineer	Soo-Joon Kim						
	Ambient temperature	(23.2 ± 0.5) ℃	Limit (15.0 to 35.0) ℃						
Climate condition	Relative humidity	(39.2 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.						
	Atmospheric pressure	Limit (86.0 to 106.0) kPa							
Test place	S	Semi-Anechoic Chamber (SAC5)							

5.2.3 Test Results

□ Operating Mode 1

- Frequencies below 1 GHz



Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]		
1	30.364	Н	22.9	-6.5	16.4	29.5	13.1	106	356	1	
2	31.091	V	22.5	-6.9	15.6	29.5	13.9	105	196	2	
3	38.488	V	25.3	-9.4	15.9	29.5	13.6	101	355	2	
4	62.616	V	33.2	-19.0	14.2	29.5	15.3	294	177	2	
5	92.686	V	33.1	-15.0	18.1	33.0	14.9	111	235	2	
6	956.714	V	19.0	1.0	20.0	35.5	15.5	195	235	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)

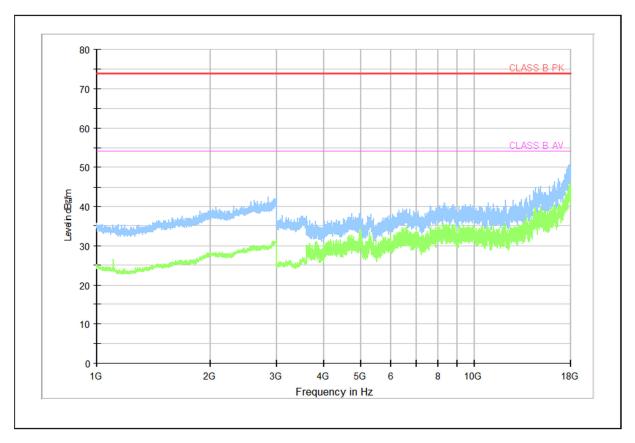
Margin (QP) = Limit – Level (QP)

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

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Mobile Phone: SC-53C/SCG15

- 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

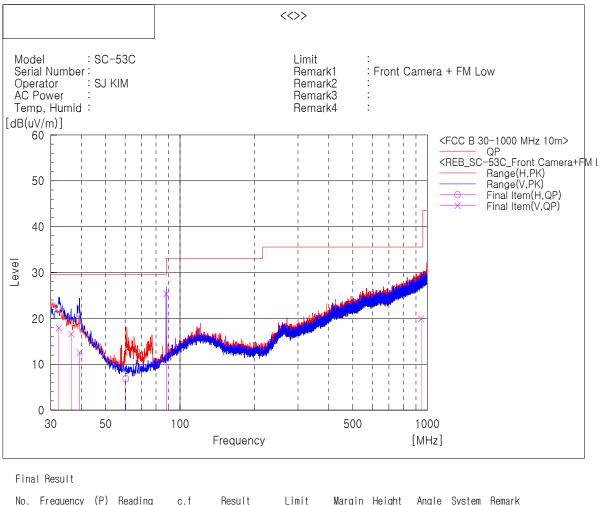
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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



No.	Frequency	(P)	Reading	c.f	Result	Limit	Margin	Height	Angle	System	Remark
			QP		QP	QP	QP				
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]		
1	32.304	V	25.1	-7.2	17.9	29.5	11.6	399	0	2	
2	36.305	V	25.0	-8.4	16.6	29.5	12.9	158	250	2	
3	39.215	V	22.2	-9.7	12.5	29.5	17.0	100	3	2	
4	60.313	Н	25.7	-18.8	6.9	29.5	22.6	400	0	1	
5	87.958	V	41.3	-16.0	25.3	29.5	4.2	142	97	2	
6	944.710	V	19.2	0.7	19.9	35.5	15.6	149	213	2	

Remark : Radiated emission (Rx frequency - 87.958 MHz) from the transceiver shall be ignored.

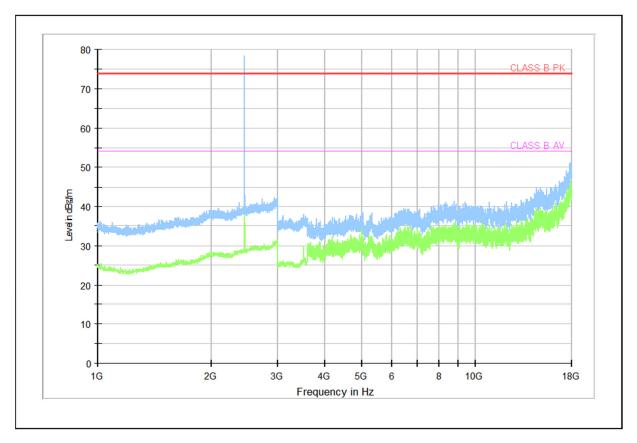
Note1) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 10 m, Antenna Height : 1 to 4 meters Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain) Margin (QP) = Limit – Level (QP) QP = Quasi-Peak, c.f = Correction Factor

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Mobile Phone: SC-53C/SCG15

- 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

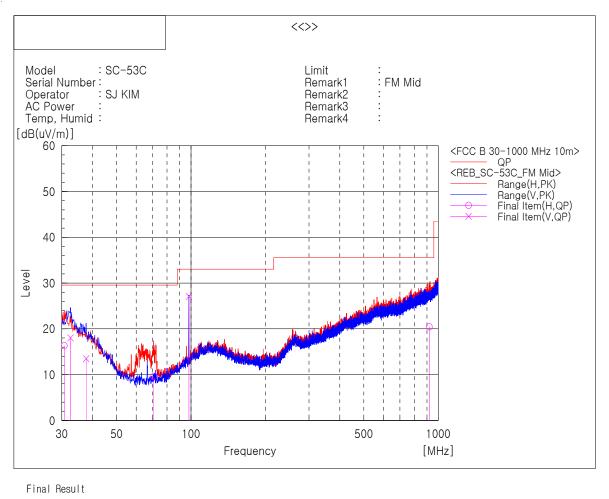
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain) Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

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

- 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 3

- Frequencies below 1 GHz



No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]		
1	30.728	Н	23.0	-6.7	16.3	29.5	13.2	107	272	1	
2	32.546	V	25.3	-7.3	18.0	29.5	11.5	355	357	2	
3	37.639	V	22.5	-9.0	13.5	29.5	16.0	400	349	2	
4	70.619	Н	28.0	-18.4	9.6	29.5	19.9	400	146	1	
5	98.021	V	41.3	-14.2	27.1	33.0	5.9	123	358	2	
6	919.732	Н	21.1	-0.6	20.5	35.5	15.0	104	6	1	

Remark : Radiated emission (Rx frequency - 98.021 MHz) from the transceiver shall be ignored.

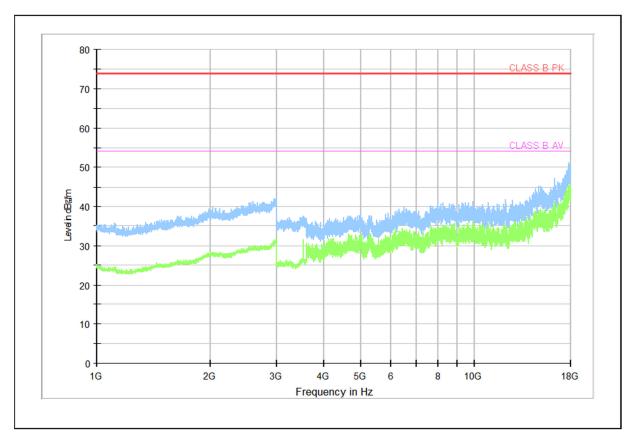
Note1) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 10 m, Antenna Height : 1 to 4 meters Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain) Margin (QP) = Limit – Level (QP) QP = Quasi-Peak, c.f = Correction Factor

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Mobile Phone: SC-53C/SCG15

- 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

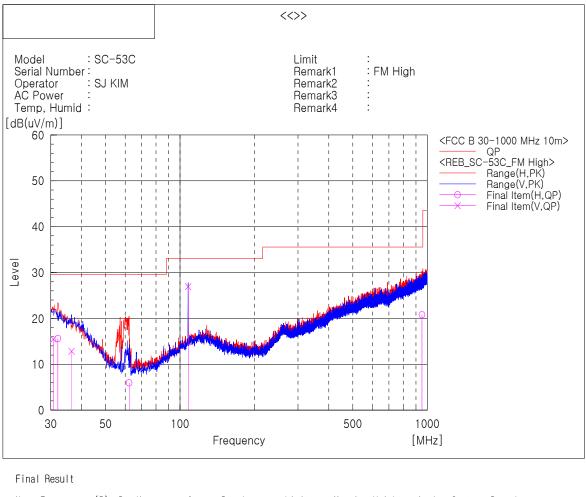
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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



No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]		
1	30.728	V	22.3	-6.8	15.5	29.5	14.0	306	184	2	
2	32.061	Н	22.9	-7.3	15.6	29.5	13.9	103	208	1	
3	36.426	V	21.3	-8.5	12.8	29.5	16.7	164	102	2	
4	62.253	Н	24.8	-18.8	6.0	29.5	23.5	275	182	1	
5	107.964	V	39.4	-12.5	26.9	33.0	6.1	115	218	2	
6	952.106	Н	20.8	0.0	20.8	35.5	14.7	341	0	1	

Remark : Radiated emission (Rx frequency - 107.964 MHz) from the transceiver shall be ignored.

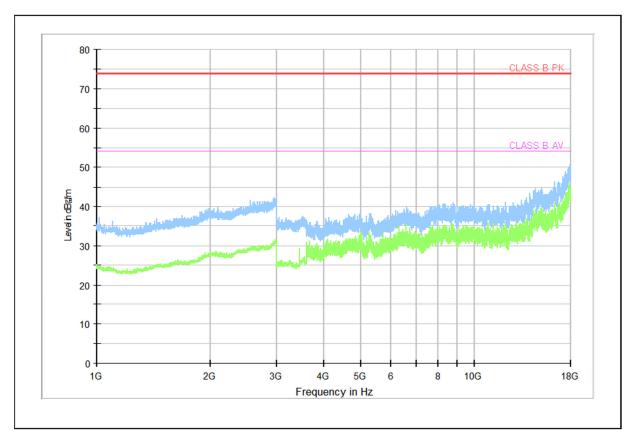
Note1) Receiving antenna polarization : Horizontal, Vertical

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

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Mobile Phone: SC-53C/SCG15

- 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

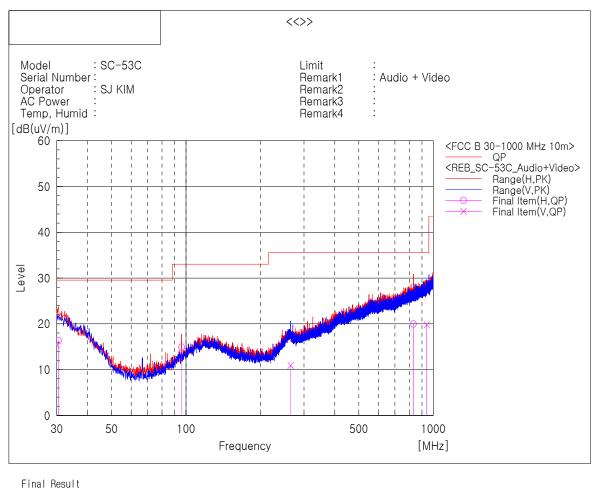
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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



No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]		
1	30.000	V	22.0	-6.6	15.4	29.5	14.1	349	57	2	
2	30.485	Н	22.9	-6.6	16.3	29.5	13.2	102	83	1	
3	95.960	Н	30.0	-15.0	15.0	33.0	18.0	400	337	1	
4	264.983	V	20.7	-9.8	10.9	35.5	24.6	302	205	2	
5	831.099	Н	21.8	-1.8	20.0	35.5	15.5	106	28	1	
6	940.951	V	19.2	0.6	19.8	35.5	15.7	296	149	2	

Note1) Receiving antenna polarization : Horizontal, Vertical

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

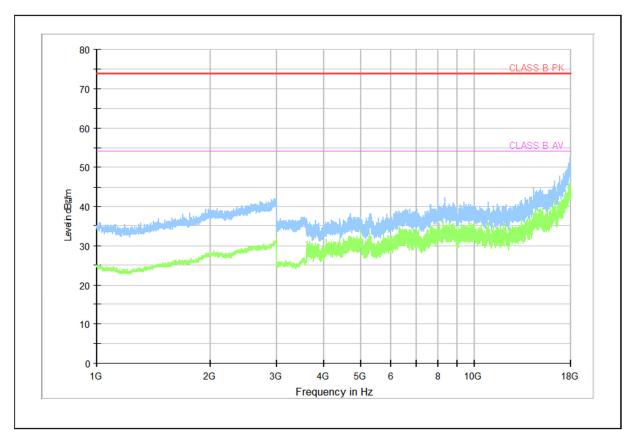
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

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

Mobile Phone: SC-53C/SCG15

- 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

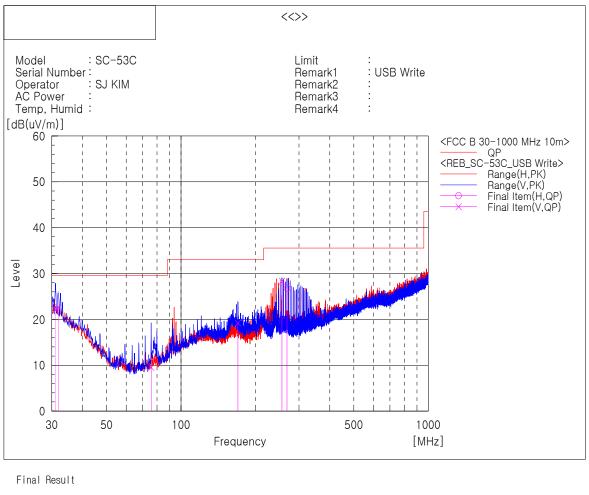
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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 6

- Frequencies below 1 GHz



No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]		
1	31.091	V	29.1	-6.9	22.2	29.5	7.3	100	55	2	
2	31.819	V	29.7	-7.1	22.6	29.5	6.9	100	51	2	
3	75.711	V	27.6	-18.1	9.5	29.5	20.0	175	358	2	
4	169.923	V	33.4	-14.2	19.2	33.0	13.8	100	311	2	
5	256.010	V	38.2	-9.9	28.3	35.5	7.2	100	180	2	
6	268.256	Н	37.5	-10.7	26.8	35.5	8.7	266	285	1	

Note1) Receiving antenna polarization : Horizontal, Vertical

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

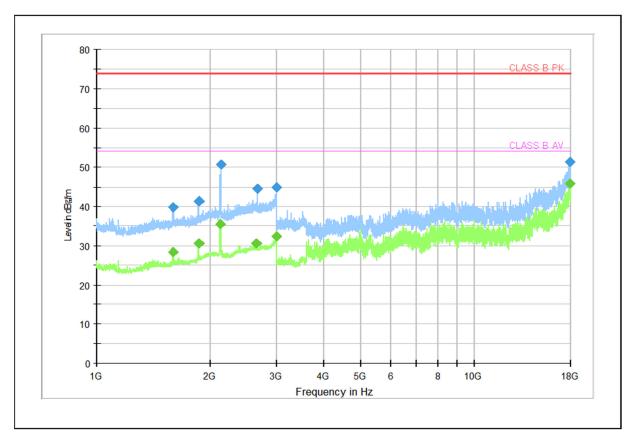
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

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

Mobile Phone: SC-53C/SCG15

- Frequencies above 1 GHz



Frequency (MHz)	PK (dBµV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 593.500		28.29	54.00	25.71	100.10	V	143.00	9.27
1 593.500	39.83		74.00	34.17	100.60	V	143.00	9.27
1 864.500		30.54	54.00	23.46	100.30	V	0.00	10.42
1 866.000	41.43		74.00	32.57	101.50	V	0.00	10.45
2 127.500		35.48	54.00	18.52	101.30	V	114.00	11.89
2 131.500	50.73		74.00	23.27	100.90	V	22.00	11.90
2 655.000		30.68	54.00	23.32	100.20	V	331.00	13.97
2 657.000	44.55		74.00	29.45	101.10	V	350.00	13.97
2 986.500	44.87		74.00	29.13	100.40	V	277.00	15.63
2 990.500		32.30	54.00	21.70	100.80	V	358.00	15.67
17 883.000		45.91	54.00	8.09	100.00	Н	110.00	38.88
17 936.500	51.36		74.00	22.64	100.70	V	169.00	38.54

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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