EMC TEST REPORT

Project No.	LBE20230748	**Issue No.**	2
Applicant	**Name of organization**	Samsung Electronics Co., Ltd.	
	Address	(Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea	
	Date of receipt	December 27, 2023	
EUT	**Type of device**	■ All other receivers subject to Part 15 ■ Class B personal computers and peripherals ■ Other Class B digital devices and peripherals ☐ FM Broadcast Receiver	
	Equipment authorization	■ Certification ☐ Supplier's Declaration of Conformity	
	FCC ID	A3LSMA556JPN	
	Kind of product	Mobile Phone	
	Model No.	SC-53E	
	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 Standards		47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014	
Test Period		January 5, 2024 ~ February 5, 2024	
Issue date		February 6, 2024	

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	**Reviewed by** : Chang-Eun Park

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	January 24, 2024	There are no revisions and this version is basic test report.
Issue 1	February 5, 2024	The LTE FDD26 band was removed as per cutomer's request.
Issue 1	February 5, 2024	Added LTE FDD26 on 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 / ANSI C63.4-2014 (Class B)	Complied
■	Radiated Emission		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-53E	-	SAMSUNG	A3LSMA556JPN
Headset	EHS64AVFWE	-	CRESYN	-
Data Link Cable	EP-DN980	-	RF TECH	-
Laptop Computer	Latitude5580	1WYRYM2	Dell	SDoC
Laptop Computer	Latitude5580	D3HRYM2	Dell	SDoC
Laptop AC Adapter	LA65NM130	5DEA	Dell	SDoC
Laptop AC Adapter	LA65NM130	5B3C	Dell	SDoC
Mouse	AA-SM7PCPB	CN57BA5903634AD V8JJCD4371	SAMSUNG	SDoC
Mouse	SMH-210UB	TAKGA05788Z	SAMSUNG	SDoC
Router	DIR-806A	RF0F1D8018454	D-Link	SDoC
Router	DIR-806A	RF0F1D8011504	D-Link	SDoC
Travel Adapter	EP-TA800	R37W88G8JCBDKA	Dongyang E&P	-
microSD Card	2567GB	-	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 (LTE FDD5 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) (w/Headset)
3	Video + Audio playback from internal memory (w/Headset)
4	USB data communication with PC (from external memory)

4.3 Details of Sampling

Customer selected, single unit.

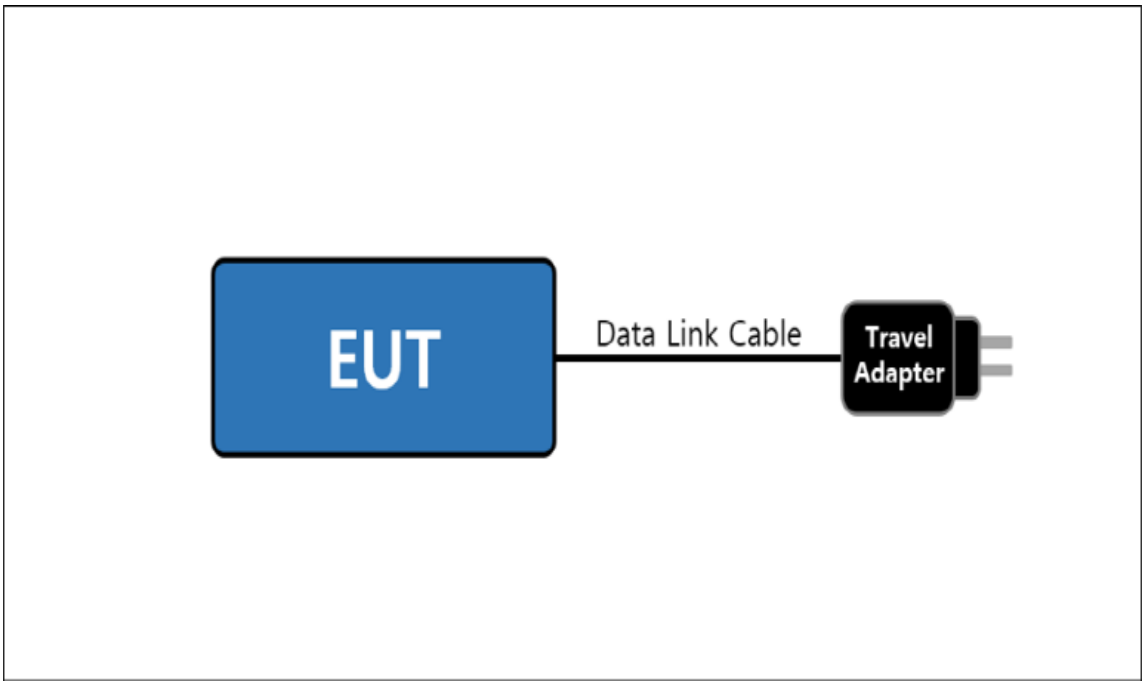
4.4 Used cable description

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:

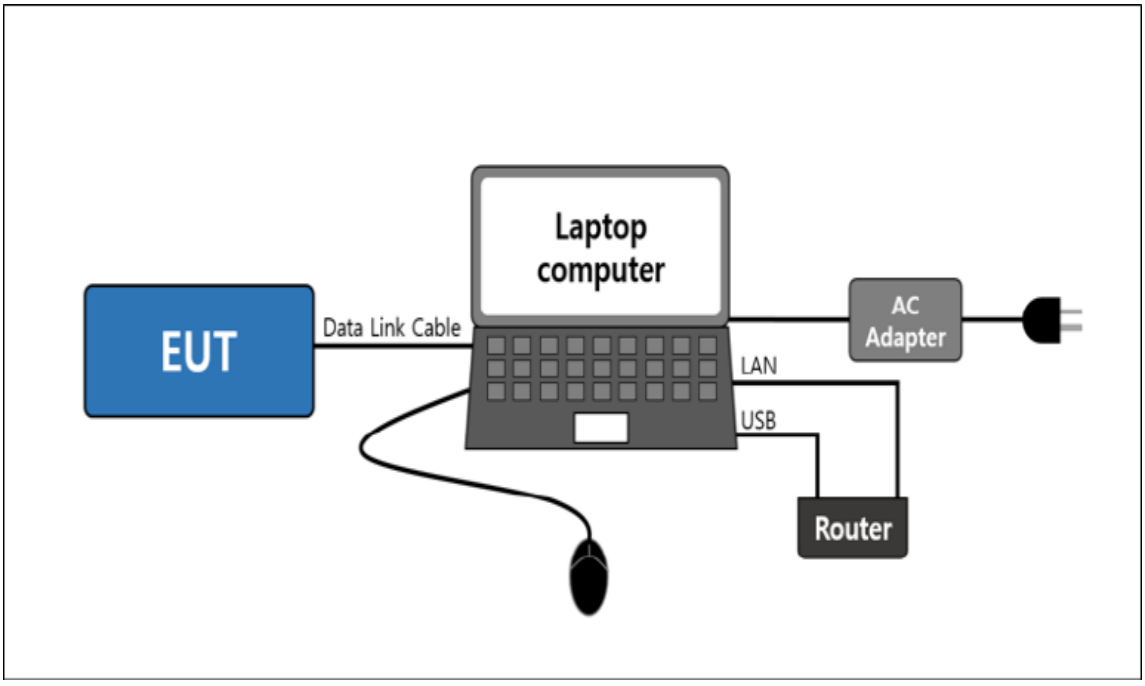
Connected cable	Length [m]	Shielded [Y/N]	Note
Data Link Cable	1.0	Y	From EUT to Laptop Computer or Travel Adapter
Headset	1.2	N	For EUT
Power	1.8	N	From Laptop Computer to AC Adapter
Power	1.5	N	For Laptop AC Adapter
LAN	1.5	N	From Laptop Computer to Router
USB	0.8	Y	From Laptop Computer to Router for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

4.5 Test arrangement

4.5.1 Conducted Emission

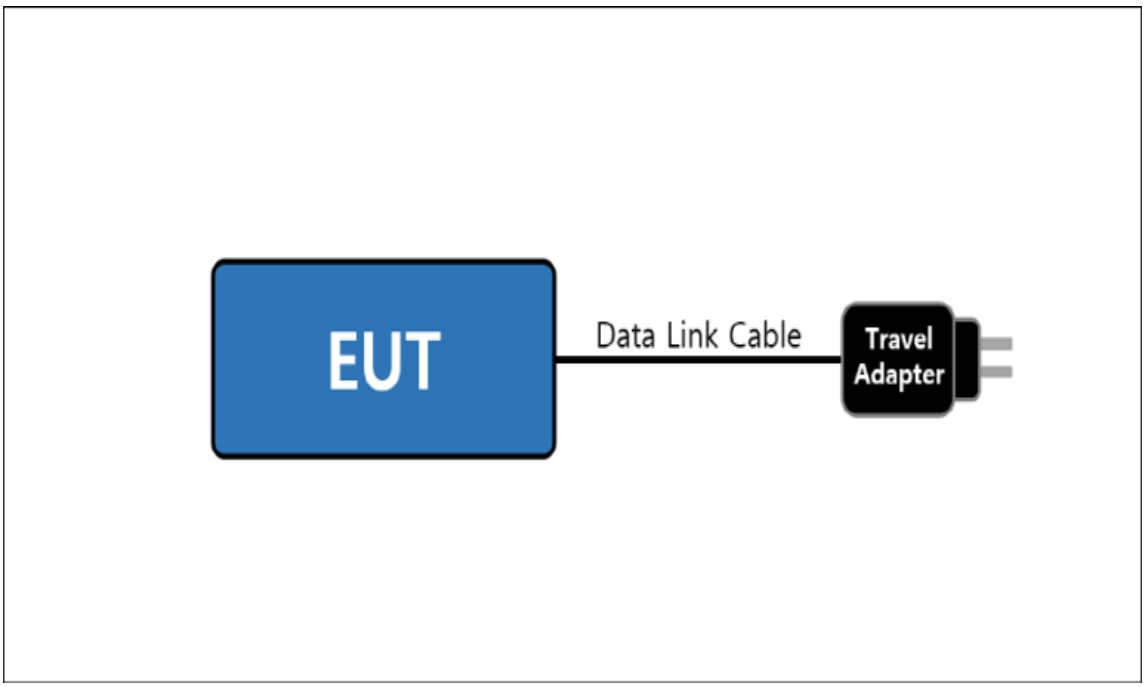


[Mode 1 – 3]

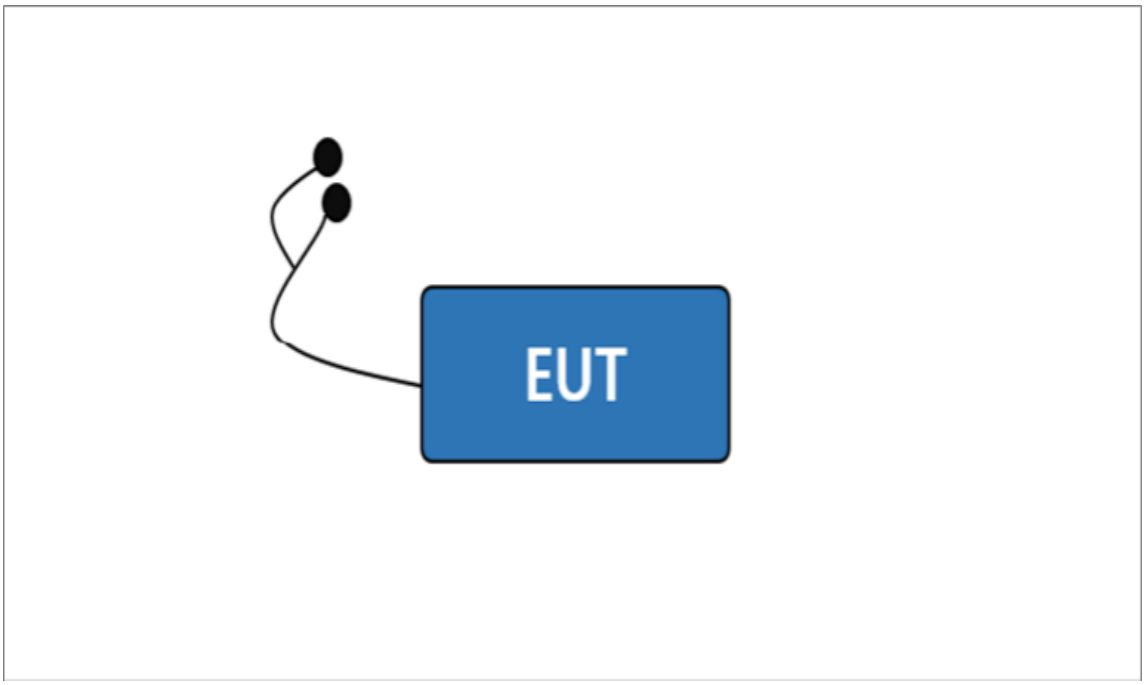


[Mode 4]

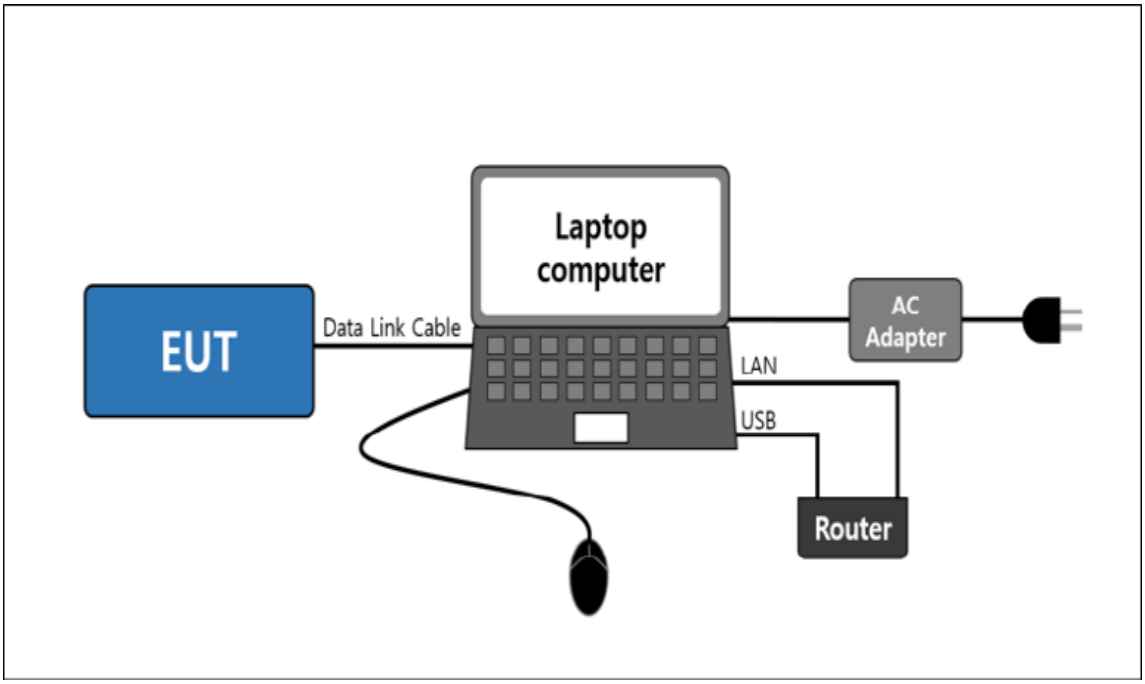
4.5.2 Radiated Emission



[Mode 1]



[Mode 2 – 3]



[Mode 4]

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 1/2/3/5/8/12/18/19/21/26/28/66, LTE TDD 38/39/41/42, 5G NR n1/3/5/28/41/77/78/79 and incorporates a Bluetooth, Wi-Fi (802.11 b/g/n/a/ac/ax), Camera, Audio, Video, GNSS and NFC.

4.6.1 The variant models

- SCG27

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 microSD 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 FDD5) were reported.

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

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 %, *k* = 2)**
Conducted Emission	AC Mains	2.8 dB
Radiated Emission (Below 1 GHz)	Horizontal	4.2 dB
	Vertical	5.9 dB
Radiated Emission (Above 1 GHz)	Horizontal	5.0 dB
	Vertical	5.0 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 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 [MHz]	Resolution Bandwidth [kHz]	Limits [dB(μV)]	
		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

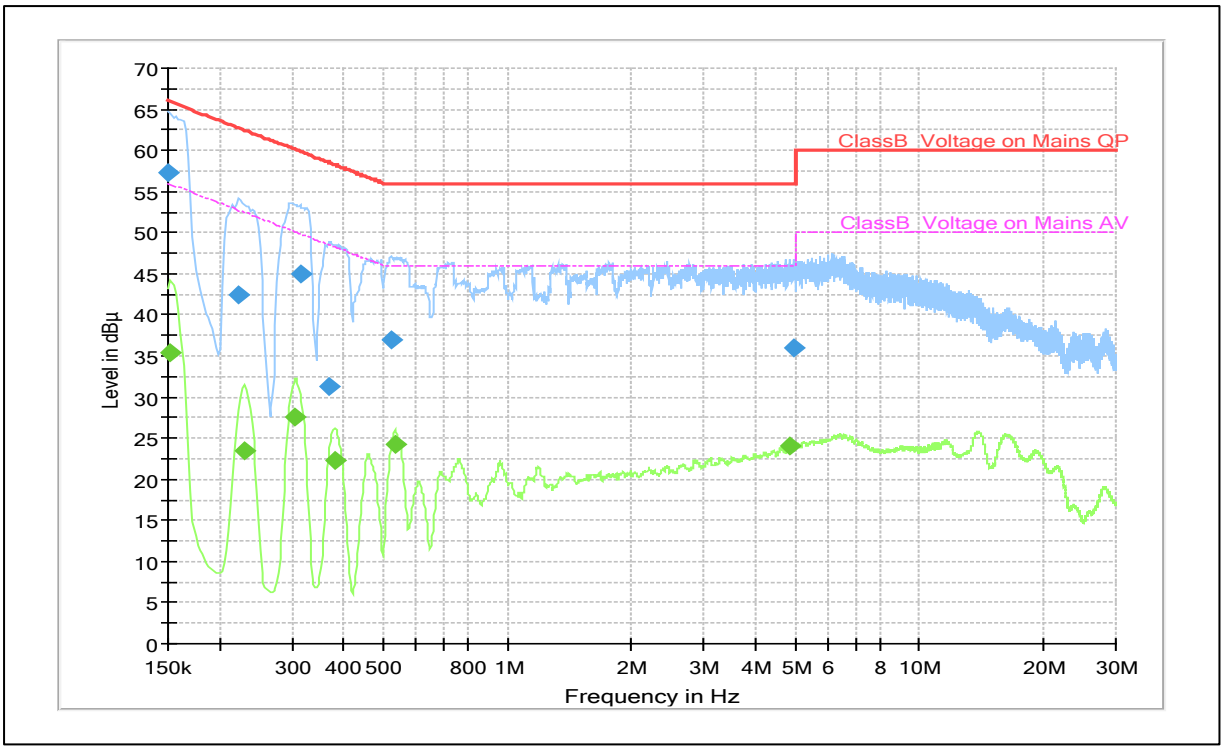
EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Next Calibration	
					Date	Interval (Month)
E5I-006	LTE Communicator	CMW500	R&S	132728	2024-04-05	12
E5I-127	Two-Line V-Network	ENV216	R&S	102061	2025-01-19	12
E5I-247	EMI Test Receiver	ESW8	R&S	103124	2024-07-21	12
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

5.1.2 Temperature and humidity condition

Test date	2024-01-05, 2024-02-05	**Test engineer**	Soo-Joon Kim
Climate condition	Ambient temperature	(23.0 ± 1.0) ℃	Limit (15.0 to 35.0) ℃
	Humidity	(39.4 ± 1.0) % R.H.	Limit (25.0 to 75.0) % R.H.
	Atmospheric pressure	(101.5 ± 1.0) kPa	Limit (86.0 to 106.0) kPa
Test place	Shield Room (SR8)		

5.1.3 Test Results

□ Operating Mode 1: AC Mains



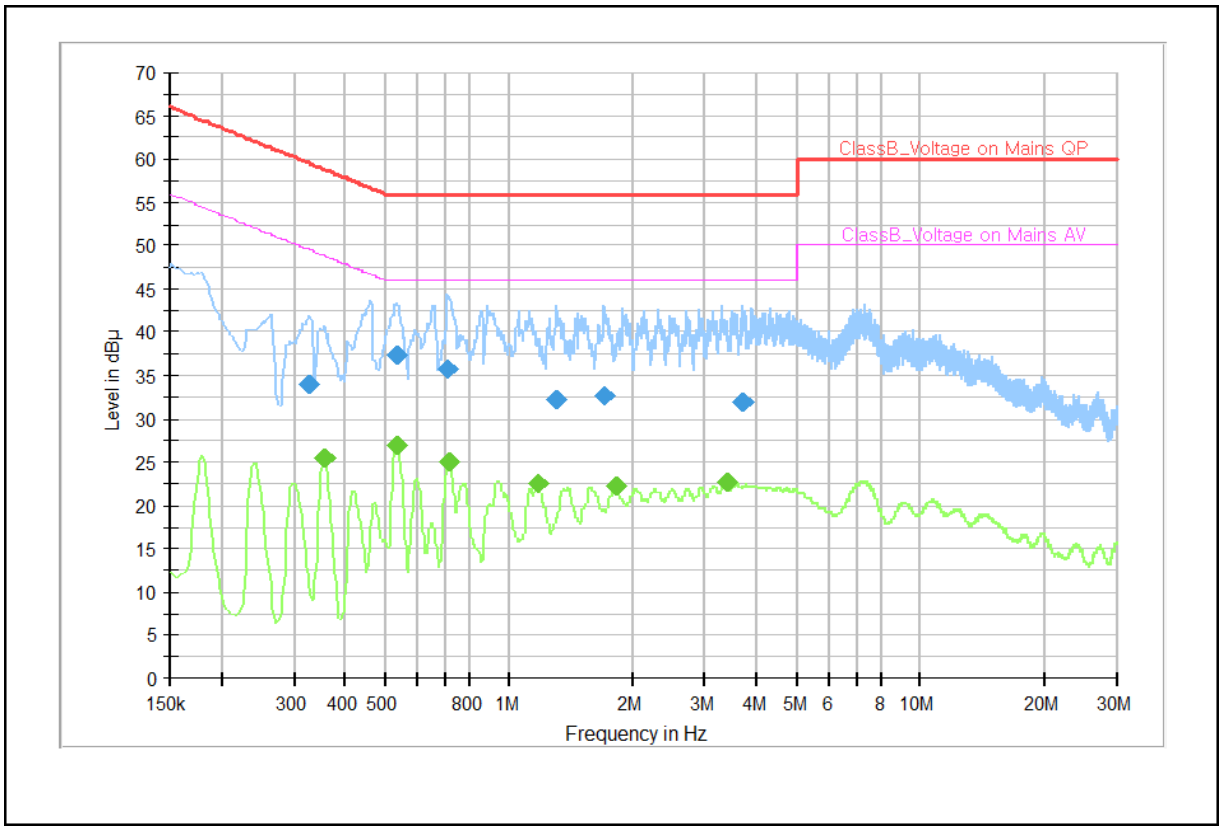
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150	57.3	---	66.0	8.7	N	10.4
0.152	---	35.4	55.9	20.5	N	10.4
0.222	42.4	---	62.7	20.3	N	10.4
0.229	---	23.4	52.5	29.0	N	10.4
0.305	---	27.6	50.1	22.5	N	10.5
0.314	45.1	---	59.9	14.8	N	10.5
0.368	31.2	---	58.5	27.3	N	10.6
0.382	---	22.3	48.2	25.9	N	10.7
0.521	37.0	---	56.0	19.0	N	10.7
0.535	---	24.2	46.0	21.8	N	10.7
4.850	---	24.1	46.0	21.9	N	10.4
4.956	36.1	---	56.0	19.9	N	10.4

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



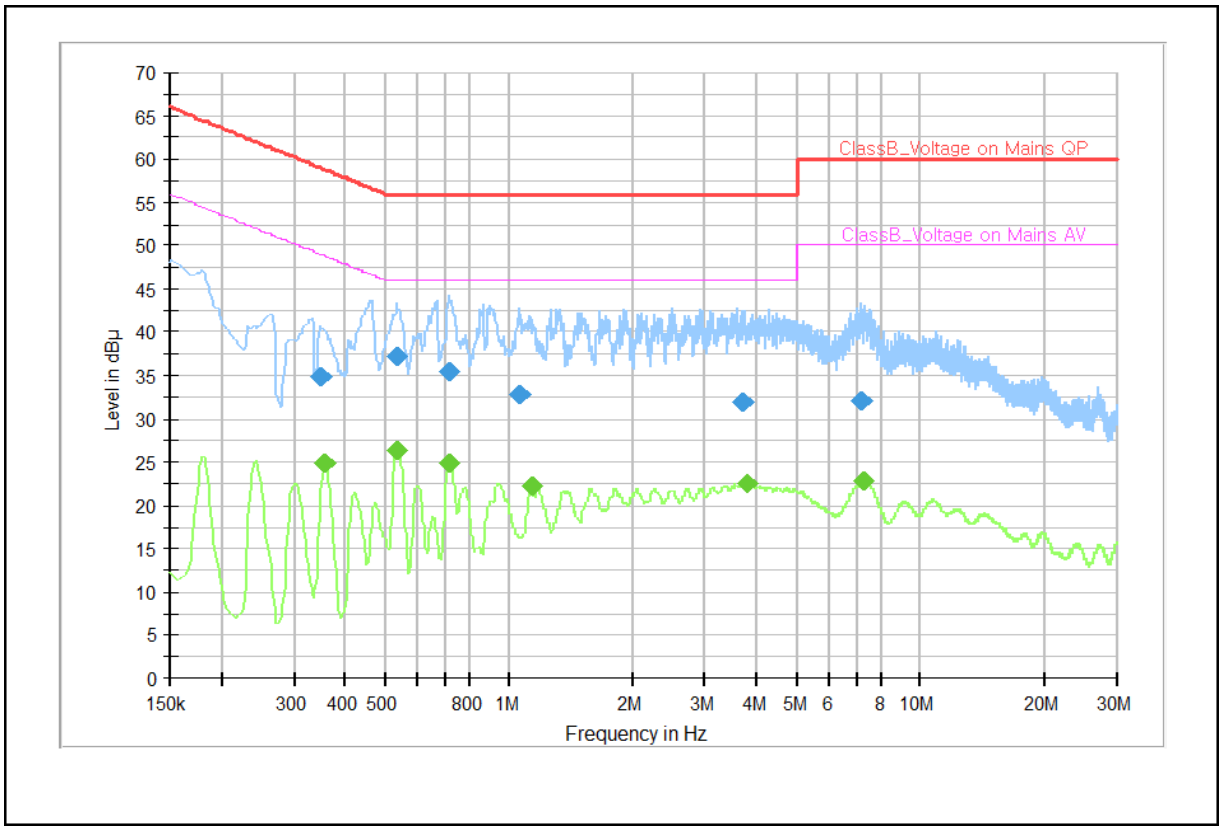
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.328	34.0	---	59.5	25.5	L1	10.1
0.355	---	25.5	48.9	23.3	L1	10.1
0.533	---	26.9	46.0	19.1	L1	10.2
0.533	37.3	---	56.0	18.7	L1	10.2
0.708	35.8	---	56.0	20.2	L1	10.1
0.715	---	24.9	46.0	21.1	L1	10.1
1.169	---	22.6	46.0	23.4	L1	10.0
1.298	32.3	---	56.0	23.7	L1	10.0
1.712	32.6	---	56.0	23.4	L1	10.0
1.813	---	22.2	46.0	23.8	L1	10.0
3.365	---	22.7	46.0	23.3	L1	10.0
3.710	31.9	---	56.0	24.1	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 3: AC Mains



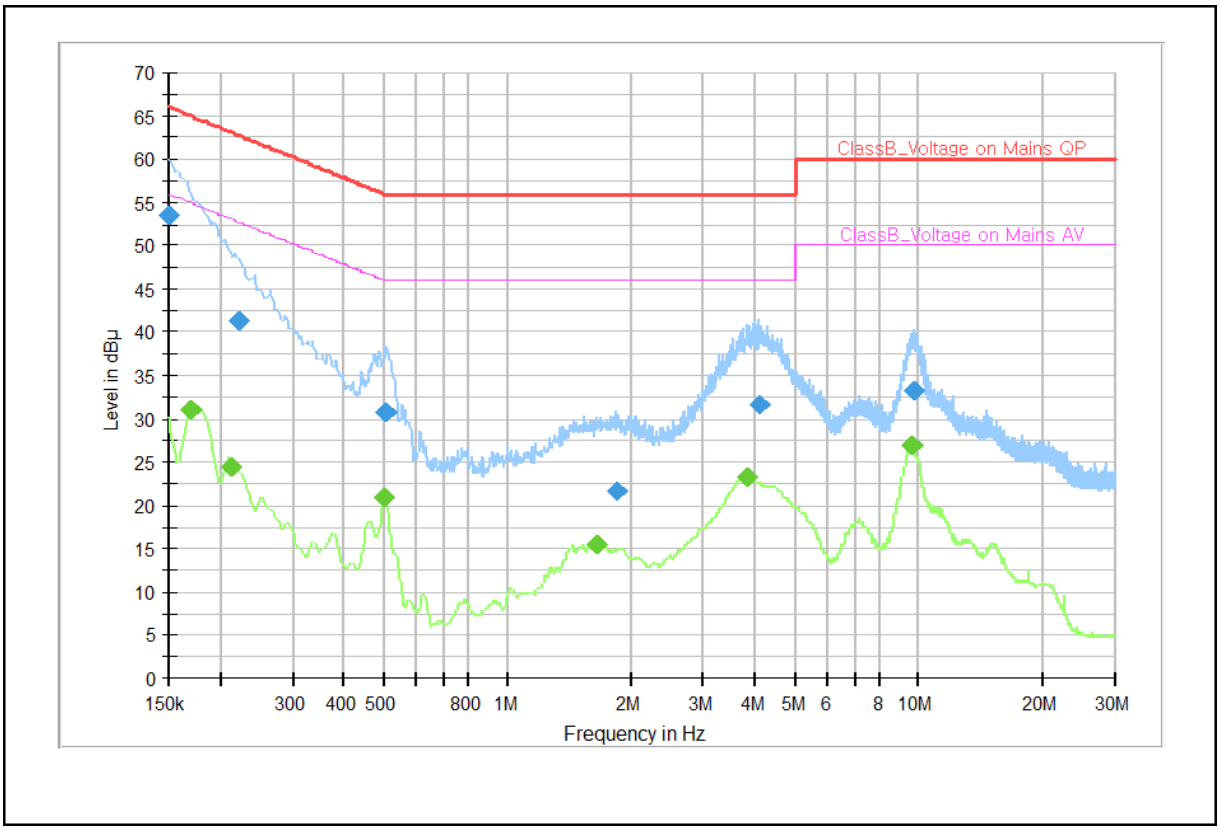
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.348	34.8	---	59.0	24.2	L1	10.1
0.357	---	24.8	48.8	24.0	L1	10.2
0.535	37.2	---	56.0	18.8	L1	10.2
0.537	---	26.5	46.0	19.5	L1	10.2
0.713	35.4	---	56.0	20.6	L1	10.1
0.719	---	24.9	46.0	21.1	L1	10.1
1.066	32.8	---	56.0	23.2	L1	10.0
1.133	---	22.3	46.0	23.7	L1	10.0
3.685	31.9	---	56.0	24.1	L1	10.0
3.791	---	22.6	46.0	23.4	L1	10.0
7.188	32.1	---	60.0	27.9	L1	10.0
7.231	---	22.9	50.0	27.1	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)
0.150	53.6	---	66.0	12.4	N	9.9
0.170	---	31.1	54.9	23.9	L1	10.1
0.213	---	24.4	53.1	28.7	L1	9.9
0.222	41.3	---	62.7	21.5	N	9.9
0.501	---	20.9	46.0	25.1	L1	10.0
0.508	30.7	---	56.0	25.3	L1	10.0
1.651	---	15.4	46.0	30.6	N	9.8
1.840	21.7	---	56.0	34.3	N	9.8
3.838	---	23.2	46.0	22.8	N	9.8
4.106	31.7	---	56.0	24.3	N	9.8
9.632	---	26.9	50.0	23.1	L1	9.8
9.744	33.2	---	60.0	26.8	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

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 3 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 [MHz]	Field Strength		
	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 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

EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Next Calibration	
					Date	Interval (Month)
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2024-01-30	12
E5I-015	EMI Test Receiver	ESU8	R&S	100481	2024-07-04	12
E5I-248	EMI Test Receiver	ESW44	R&S	103129	2024-07-21	12
E5I-070	BiLog Antenna	CBL6112D	TESEQ	35383	2025-07-21	24
E5I-228	6 dB Fixed Attenuator	8491B-006	Agilent	58358	2025-07-21	24
E5I-121	BiLog Antenna	CBL6112D	TESEQ	36999	2025-07-21	24
E5I-137	6 dB Fixed Attenuator	8491A	Keysight	MY52462298	2025-07-21	24
E5I-093	Preamplifier	310N	SONOMA	273122	2024-01-17	12
E5I-094	Preamplifier	310N	SONOMA	282363	2024-01-17	12
E5I-036	Horn Antenna	HF907	R&S	100507	2024-04-11	12
E5I-039	Signal Conditioning Unit	SCU-18	R&S	10211	2024-04-05	12
E5I-243	WideBand Horn Antenna	QMS-00880	STEATITE	25187	2024-12-05	12
E5I-042	Signal Conditioning Unit	SCU-40A	R&S	10004	2024-09-21	12
-	Test software	EP7RE	TOYO	Ver 8.0.20	-	-
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

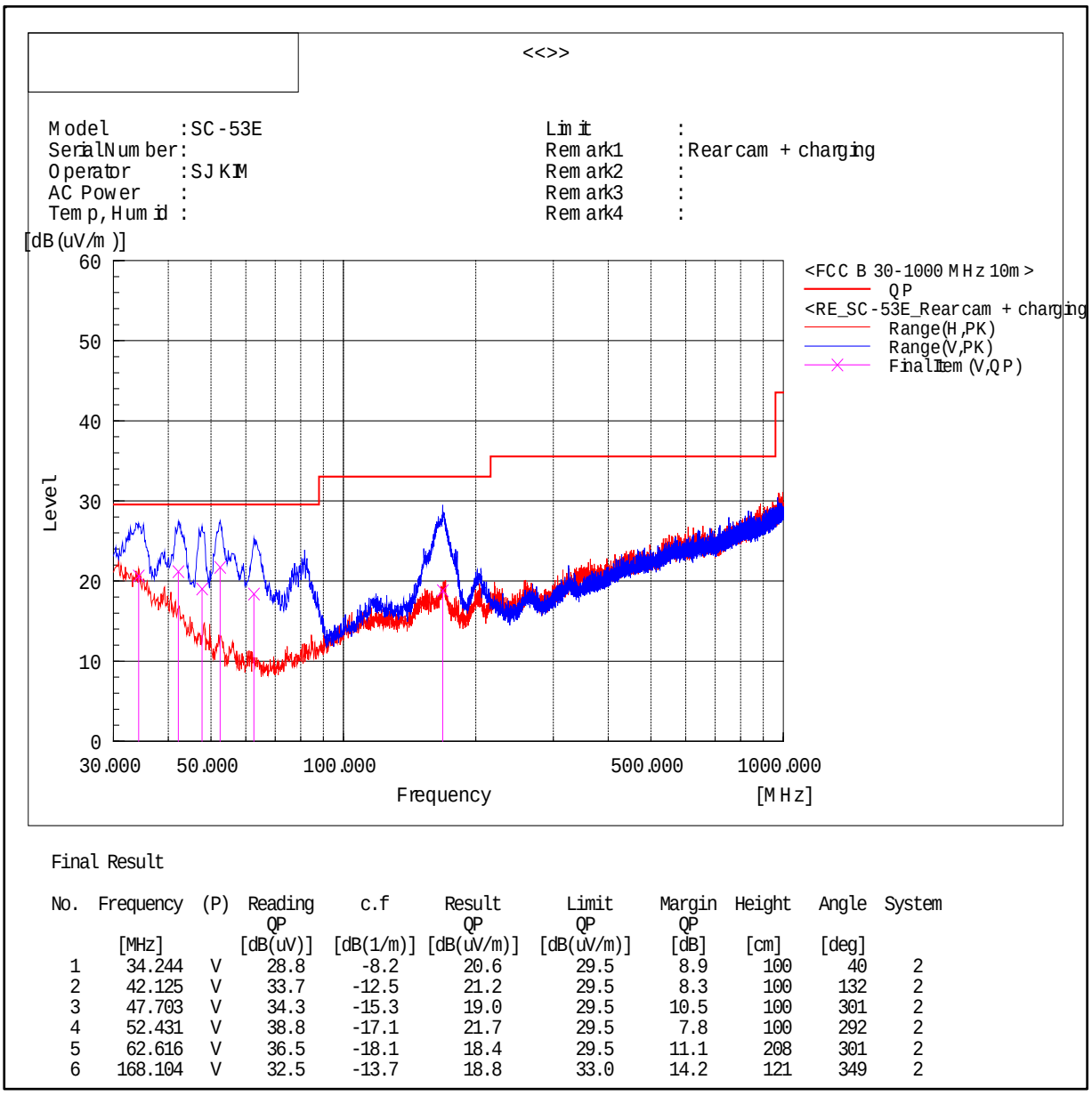
5.2.2 Temperature and humidity condition

Test date	2024-01-08 ~ 2024-01-12	**Test engineer**	Soo-Joon Kim
Climate condition	Ambient temperature	(23.4 ± 1.0) ℃	Limit (15.0 to 35.0) ℃
	Humidity	(30.5 ± 1.0) % R.H.	Limit (25.0 to 75.0) % R.H.
	Atmospheric pressure	(101.8 ± 1.0) 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



Final Result

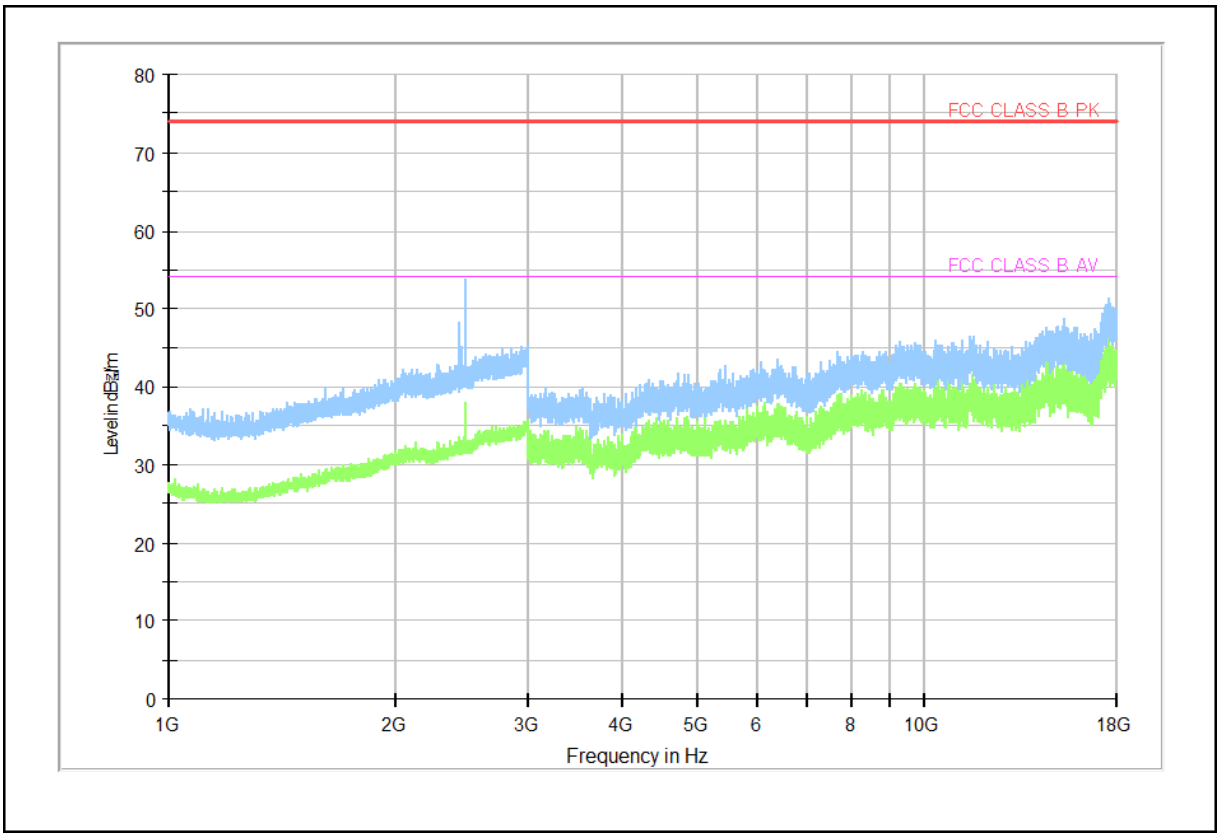
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	System
1	34.244	V	28.8	-8.2	20.6	29.5	8.9	100	40	2
2	42.125	V	33.7	-12.5	21.2	29.5	8.3	100	132	2
3	47.703	V	34.3	-15.3	19.0	29.5	10.5	100	301	2
4	52.431	V	38.8	-17.1	21.7	29.5	7.8	100	292	2
5	62.616	V	36.5	-18.1	18.4	29.5	11.1	208	301	2
6	168.104	V	32.5	-13.7	18.8	33.0	14.2	121	349	2

Note1) 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) 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

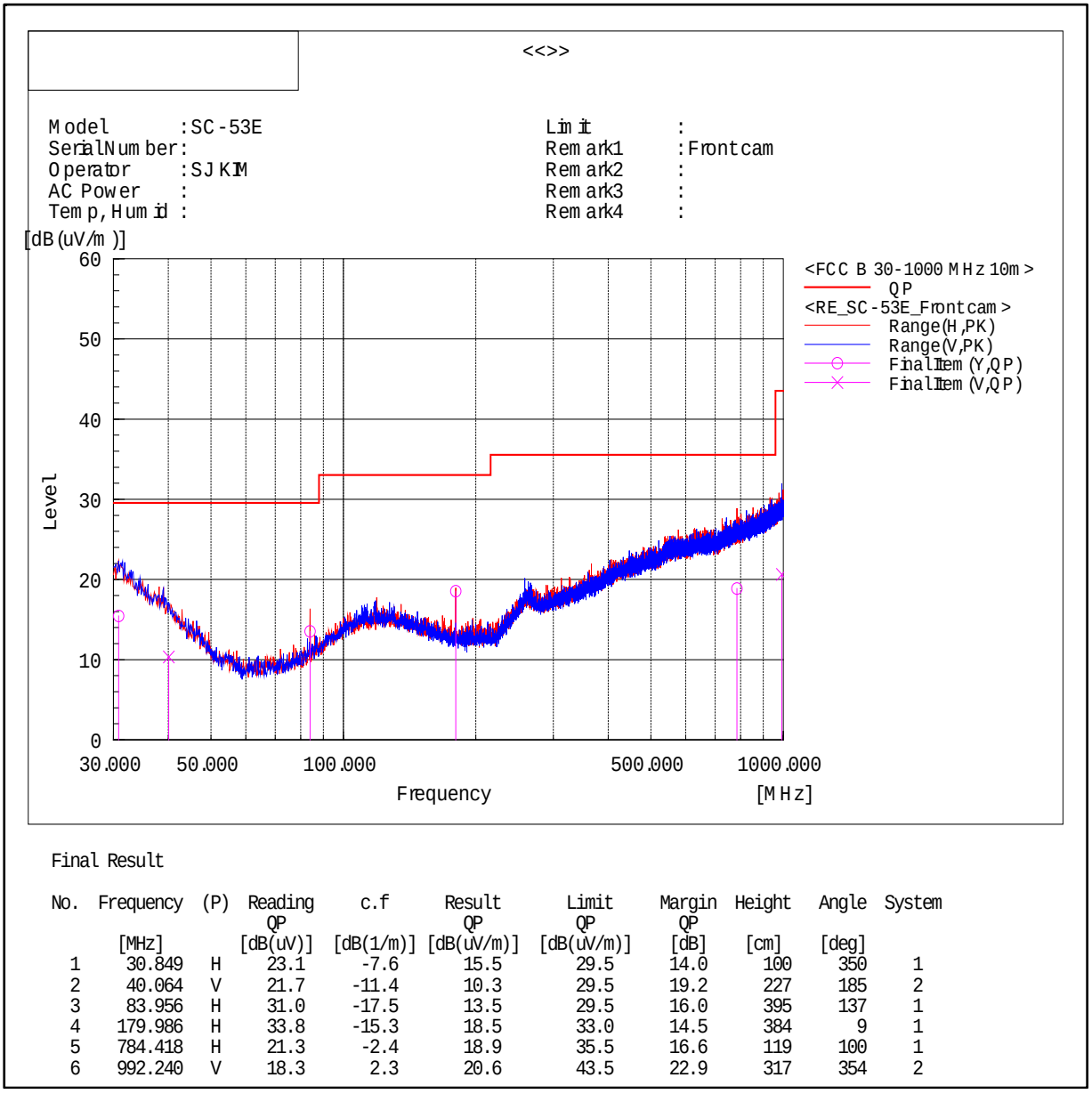
Note 3) Radiated emissions (Tx / Rx frequency) from the transceiver shall be ignored.

- 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



Final Result

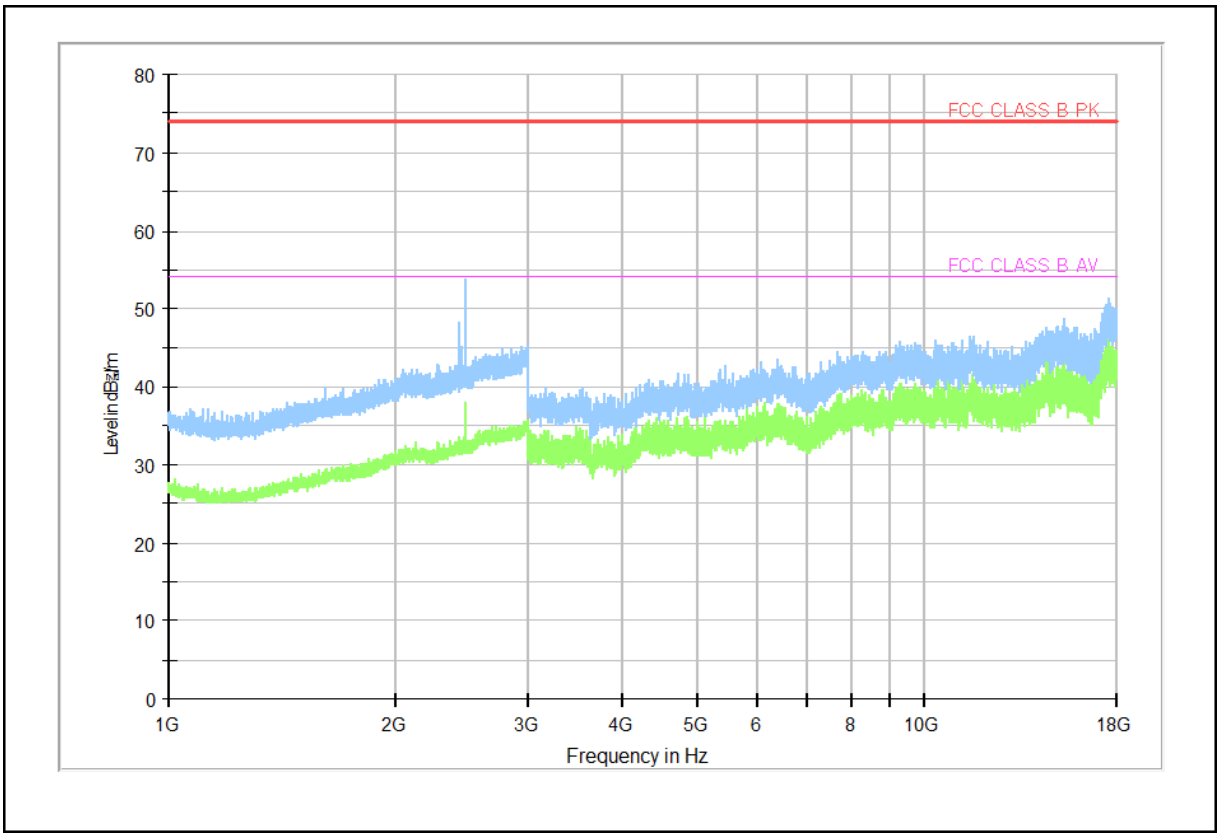
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	System
1	30.849	H	23.1	-7.6	15.5	29.5	14.0	100	350	1
2	40.064	V	21.7	-11.4	10.3	29.5	19.2	227	185	2
3	83.956	H	31.0	-17.5	13.5	29.5	16.0	395	137	1
4	179.986	H	33.8	-15.3	18.5	33.0	14.5	384	9	1
5	784.418	H	21.3	-2.4	18.9	35.5	16.6	119	100	1
6	992.240	V	18.3	2.3	20.6	43.5	22.9	317	354	2

Note1) 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)

Note 1) We have also tested from 18 GHz to 30 GHz and found no emissions.

Note 2) 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

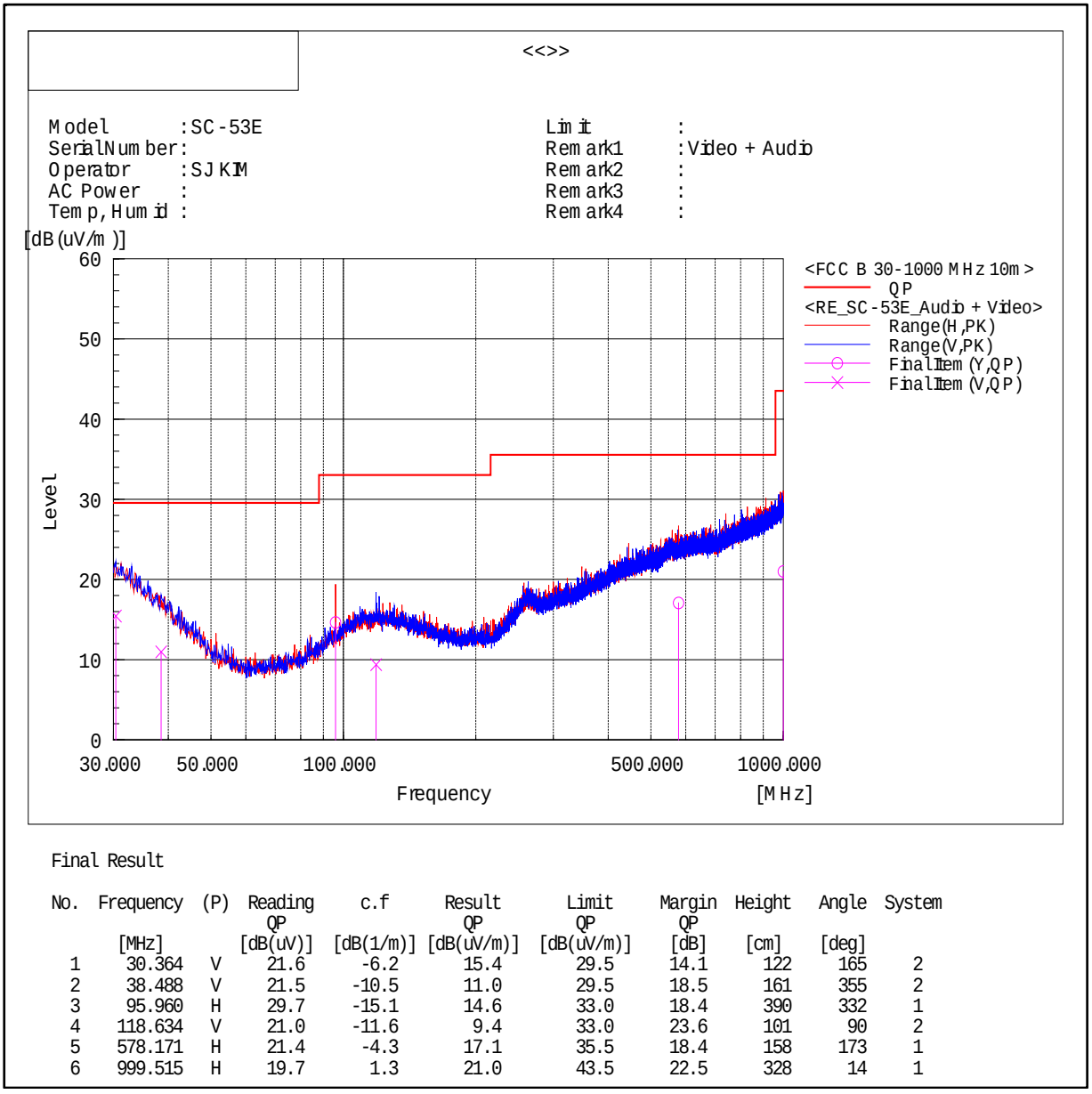
Note 3) Radiated emissions (Tx / Rx frequency) from the transceiver shall be ignored.

- 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



Final Result

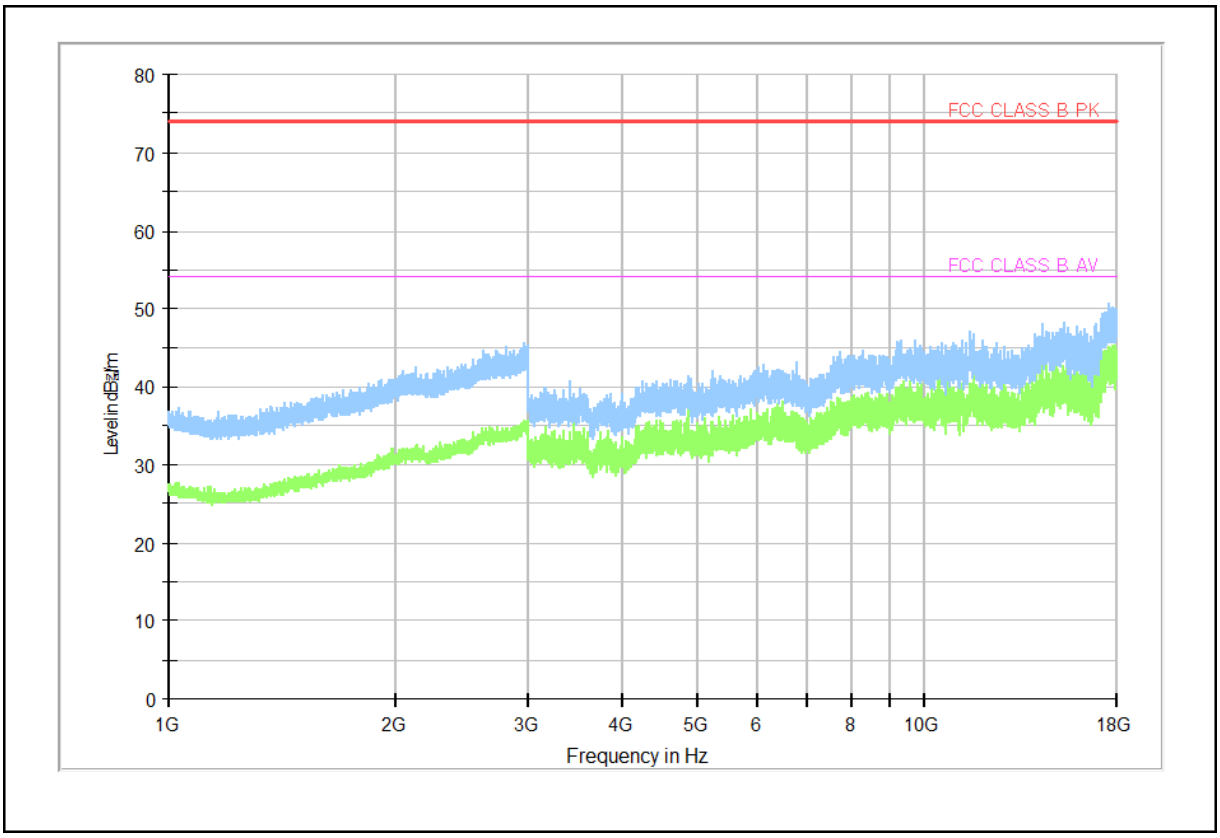
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	System
1	30.364	V	21.6	-6.2	15.4	29.5	14.1	122	165	2
2	38.488	V	21.5	-10.5	11.0	29.5	18.5	161	355	2
3	95.960	H	29.7	-15.1	14.6	33.0	18.4	390	332	1
4	118.634	V	21.0	-11.6	9.4	33.0	23.6	101	90	2
5	578.171	H	21.4	-4.3	17.1	35.5	18.4	158	173	1
6	999.515	H	19.7	1.3	21.0	43.5	22.5	328	14	1

Note1) 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.

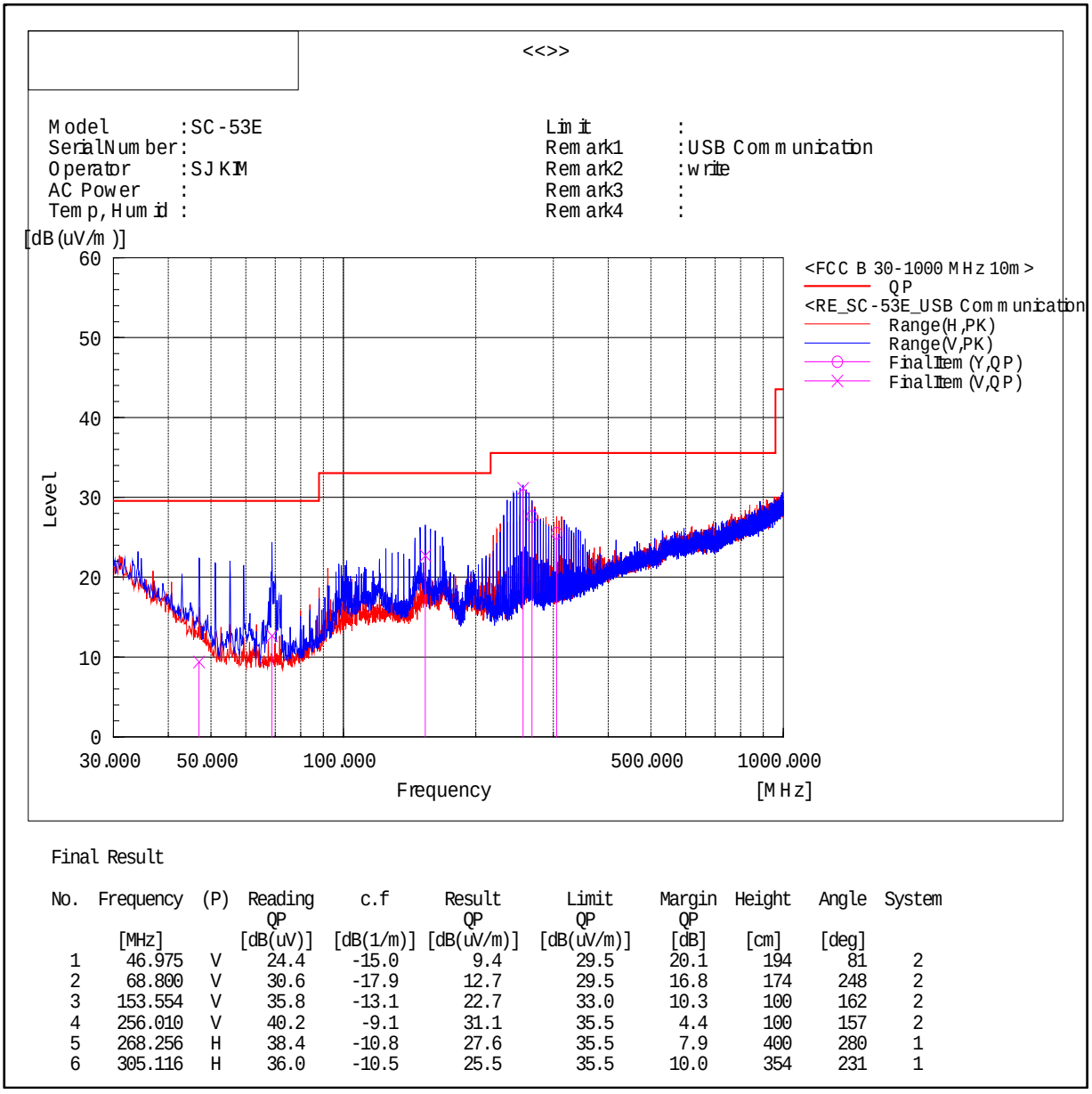
Note 2) Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

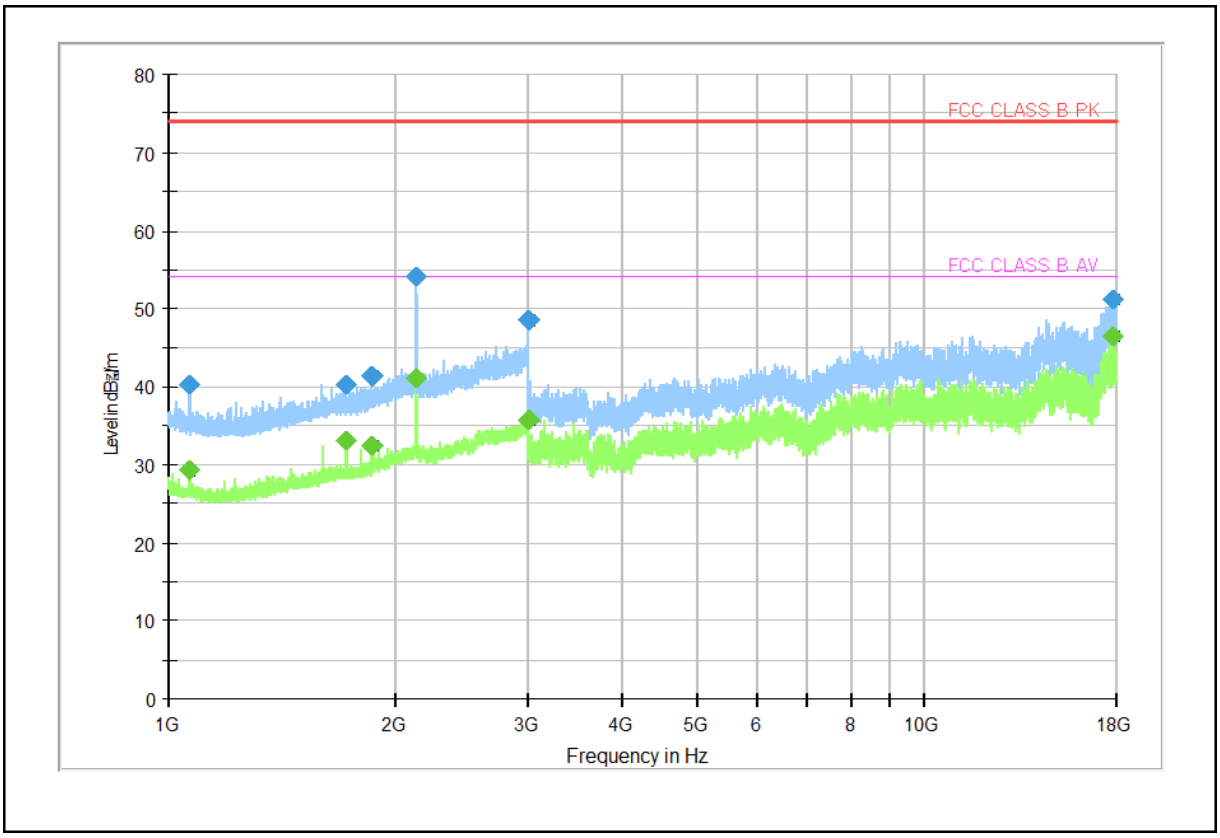
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	System
1	46.975	V	24.4	-15.0	9.4	29.5	20.1	194	81	2
2	68.800	V	30.6	-17.9	12.7	29.5	16.8	174	248	2
3	153.554	V	35.8	-13.1	22.7	33.0	10.3	100	162	2
4	256.010	V	40.2	-9.1	31.1	35.5	4.4	100	157	2
5	268.256	H	38.4	-10.8	27.6	35.5	7.9	400	280	1
6	305.116	H	36.0	-10.5	25.5	35.5	10.0	354	231	1

Note1) 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	40.2	---	74.0	33.8	100.2	H	1.0	7.7
1 066.000	---	29.3	54.0	24.7	100.0	H	0.0	7.7
1 717.800	40.3	---	74.0	33.7	100.0	V	246.0	12.0
1 719.200	---	33.2	54.0	20.8	100.0	H	254.0	12.0
1 859.600	41.3	---	74.0	32.7	100.7	V	116.0	13.0
1 859.600	---	32.3	54.0	21.7	100.4	V	116.0	13.0
2 126.200	---	41.0	54.0	13.0	100.9	V	0.0	14.9
2 127.800	54.0	---	74.0	20.0	101.0	V	0.0	14.9
2 996.400	---	35.7	54.0	18.3	100.2	V	12.0	18.9
2 996.600	48.5	---	74.0	25.5	100.6	V	356.0	18.9
17 807.000	51.2	---	74.0	22.8	102.1	V	42.0	38.6
17 822.000	---	46.5	54.0	7.5	100.1	H	238.0	38.5

Note 1) We have also tested from 18 GHz to 30 GHz and found no emissions.

Note 2) 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