EMC TEST REPORT

Project No.	LBE20210632	**Issue No.**	1
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	September 28, 2021	
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	A3LSMA136U	
	Kind of product	Mobile Phone	
	Model No.	SM-A136U	
	Variant Model No.	Refer to clause 4.6	
	Manufacturer	Samsung Electronics Vietnam THAI NGUYEN Co. Ltd. Yen Binh industrial, Dong Tien Ward, Pho Yen Town, Thai Nguyen province, Viet Nam	
Applied Standards		47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014	
Test Period		September 30, 2021 ~ October 5, 2021	
Issue date		October 20, 2021	

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 : Chang-Eun Park C.E-Park	**Reviewed by** : Sun-Ho Kim 

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	October 7, 2021	There are no revisions and this version is basic test report.
Issue 1	October 20, 2021	The information of test peripheral is modified. (clause 4.1)

※ Remark
Compliance with Part 15B requirements for the receiver part of the licensed transmitter (equipment code CXX) is covered by other test report.

2. Summary of test results

2.1 Emission

The EUT has been tested according to the following specifications:

Applied	Test type	Applied standard	Result
■	Conducted 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	SM-A136U	-	SAMSUNG	A3LSMA136U
Battery	EB-BA136ABY	-	SDI	-
Headset	EHS64AV	-	ALMUS	-
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	CN57BA5903634A DV8JJCD4371	SAMSUNG	DoC
Mouse	SNJ-B138	Z5F8353	SAMSUNG	DoC
Router	DIR-806A	RF0F1D8018454	D-Link	DoC
Router	DIR-806A	RF0F1D8011504	D-Link	DoC
Travel Adapter	EP-TA800	R37N9AQ96V8SE3	RF TECH	-
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 (LTE B26 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)
3	Video + Audio playback from internal memory
4	USB data communication with PC (from external memory)

4.3 Details of Sampling

Customer selected, single unit.

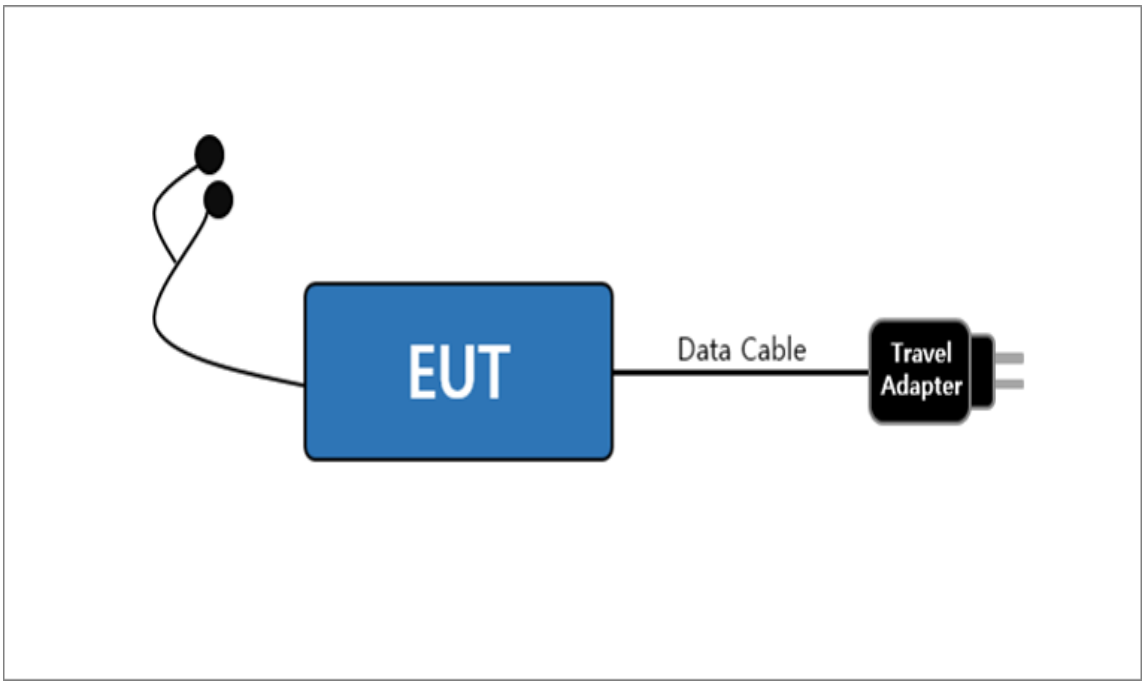
4.4 Used cable description

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:

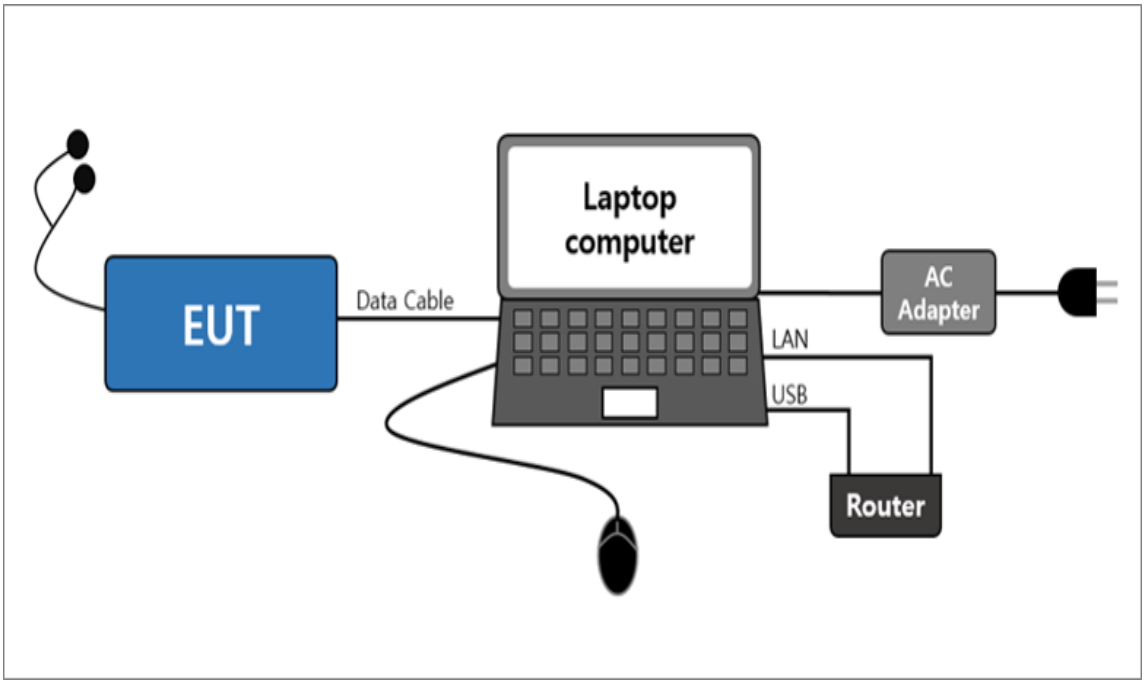
Connected cable	Length [m]	Shielded [Y/N]	Note
Data Cable	1.0	Y	From EUT to Laptop Computer or Travel Adapter
Headset	1.2	N	For EUT
Power	1.8	N	From Laptop Computer to AC Adapter
Power	1.5	N	For Laptop AC Adapter
LAN	1.5	N	From Laptop Computer to Router
USB	0.8	Y	From Laptop Computer to Router for DC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

4.5 Test arrangement

4.5.1 Conducted Emission

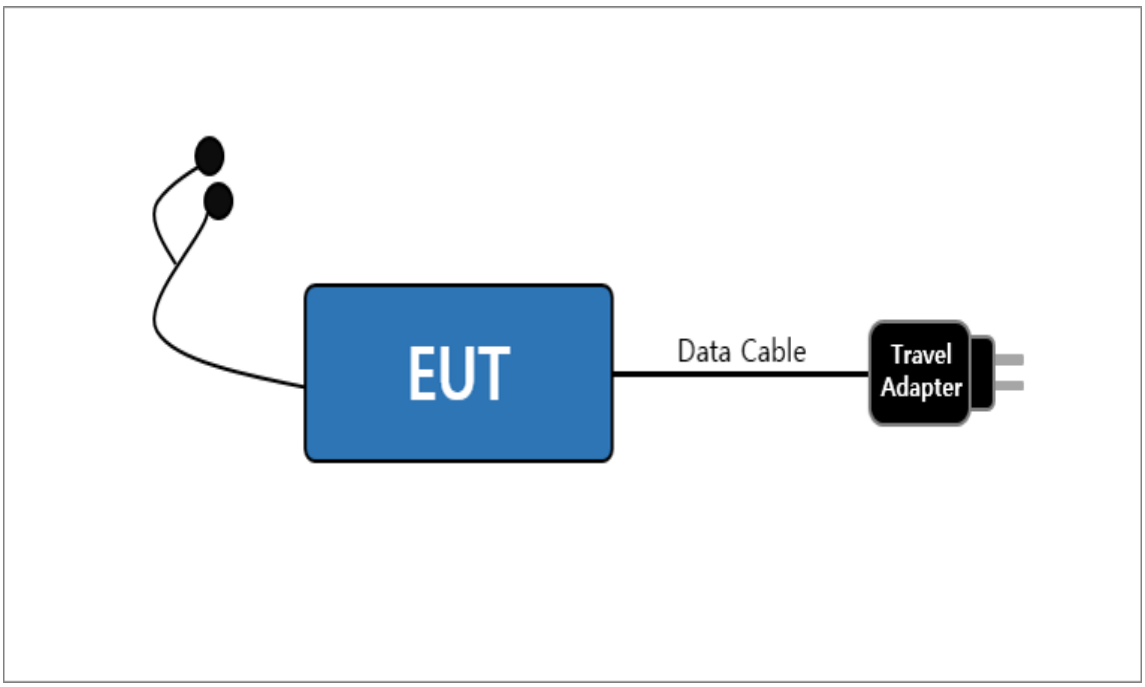


[Mode 1 – 3]

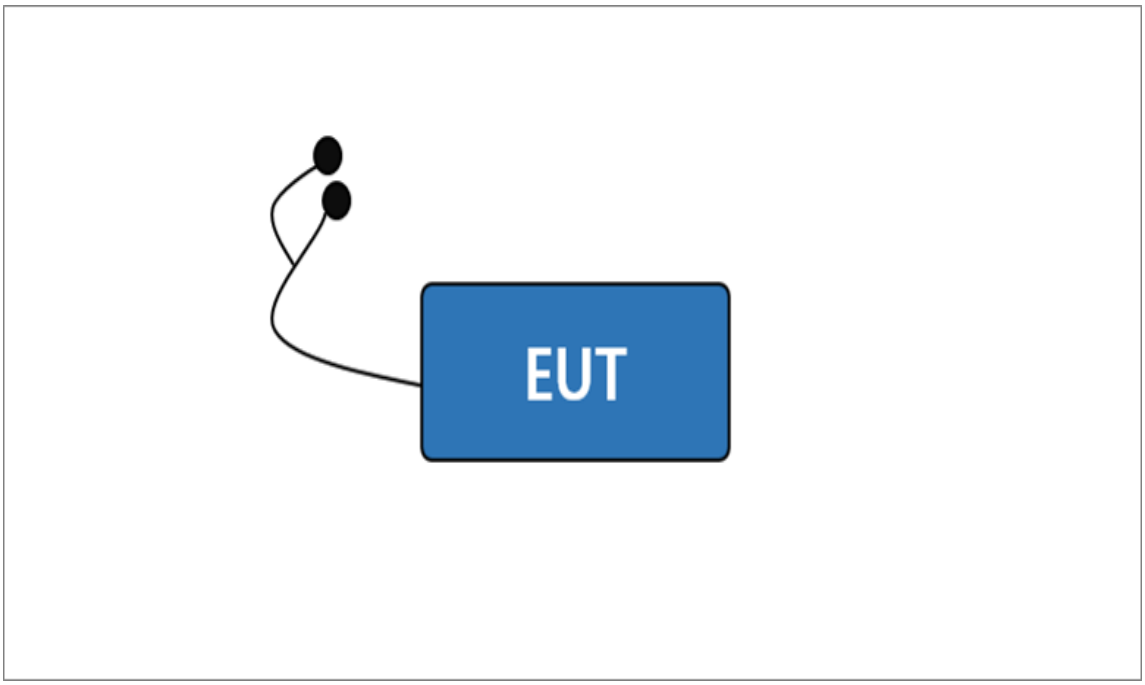


[Mode 4]

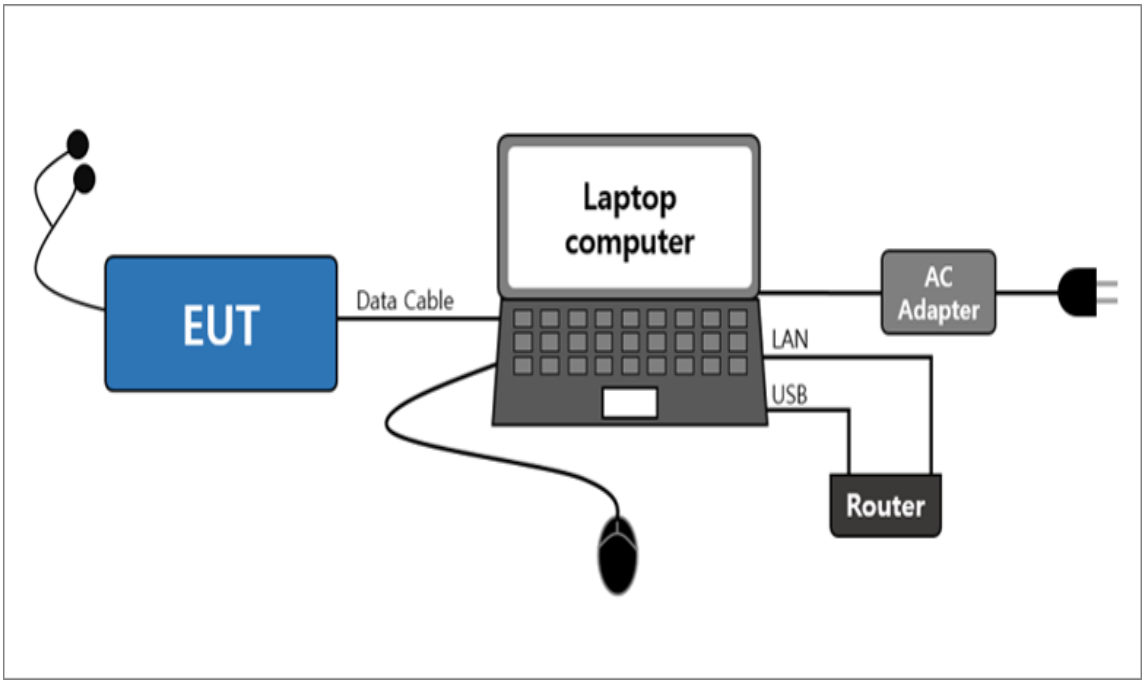
4.5.2 Radiated Emission



[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 1/2/4/5/8, LTE FDD 1/2/3/4/5/7/12/13/14/20/25/26/29/30/66/71, LTE TDD 38/39/40/41/48, 5G NR n 2/5/25/41/48/66/71/77/78, and incorporates a Bluetooth, Wi-Fi (802.11 b/g/n/a/ac), Camera, Audio, Video, GNSS, SD Card and NFC.

4.6.1 The variant models

- SM-A136U1, SM-S136DL

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 was performed with the LTE FDD B26 RX Test mode at center frequency. All licensed communication (850MHz) RX mode, GSM/WCDMA/LTE, test results are not significantly different.

The video and audio were repetitively played with the earphone connected.

The camera of the EUT was operated continuously.

Power source for the EUT operating was supplied by CVCF made by the Pacific Corp.

- Test Voltage : AC 120 V, 60 Hz

4.9 Measurement uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus : (According to CISPR 16-4-2 and UKAS M3003)

Test type		**Measurement uncertainty (C.L. approximately 95 %, *k* = 2)**
Conducted Emission	AC Mains	2.82 dB
Radiated Emission (Below 1 GHz)	Horizontal	5.03 dB
	Vertical	6.13 dB
Radiated Emission (Above 1 GHz)	Horizontal	4.99 dB
	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 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

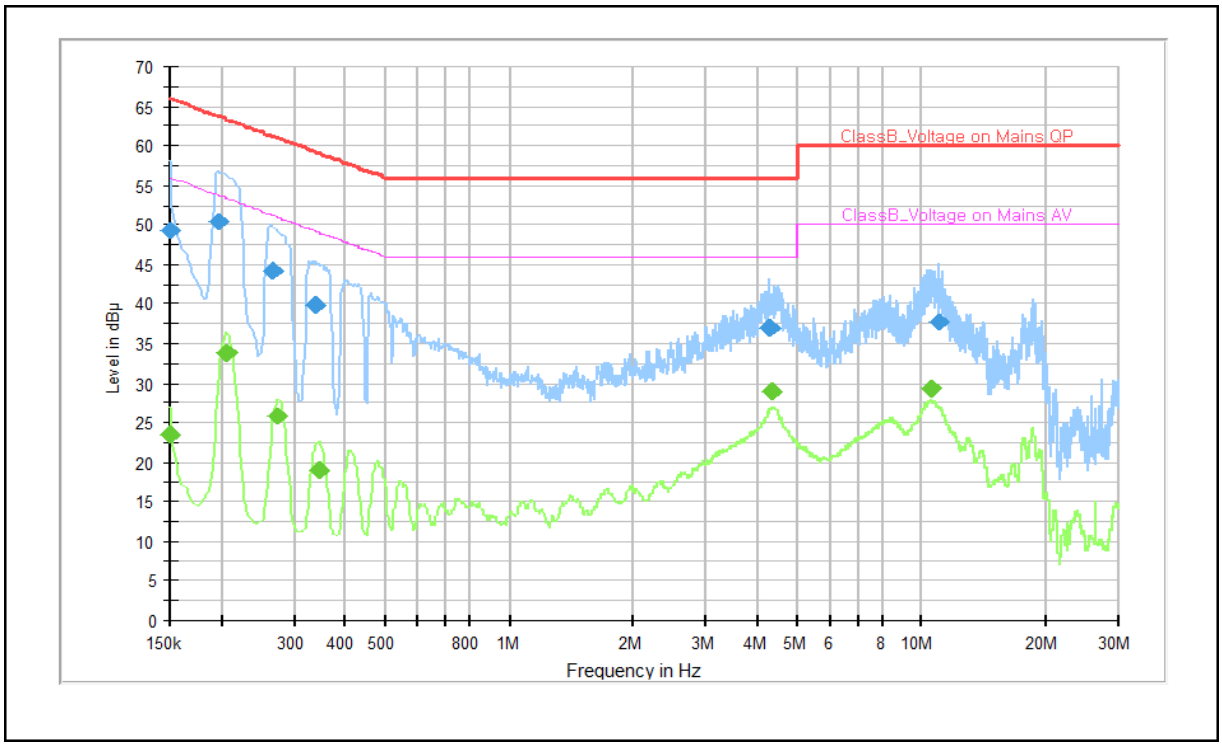
EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Next Calibration	
					Date	Interval (Month)
E5I-006	LTE Communicator	CMW500	R&S	132728	2022-04-06	12
E5I-127	Two-Line V-Network	ENV216	R&S	102061	2022-08-02	12
E5I-016	EMI Test Receiver	ESU8	R&S	100482	2022-06-03	12
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

5.1.2 Temperature and humidity condition

Test date	2021-10-05	Test engineer	Chang-Eun Park
Climate condition	Ambient temperature	(21.9 ± 0.5) ℃	Limit (15.0 to 35.0) ℃
	Relative humidity	(56.7 ± 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)		

5.1.3 Test Results

□ Operating Mode 1: AC Mains



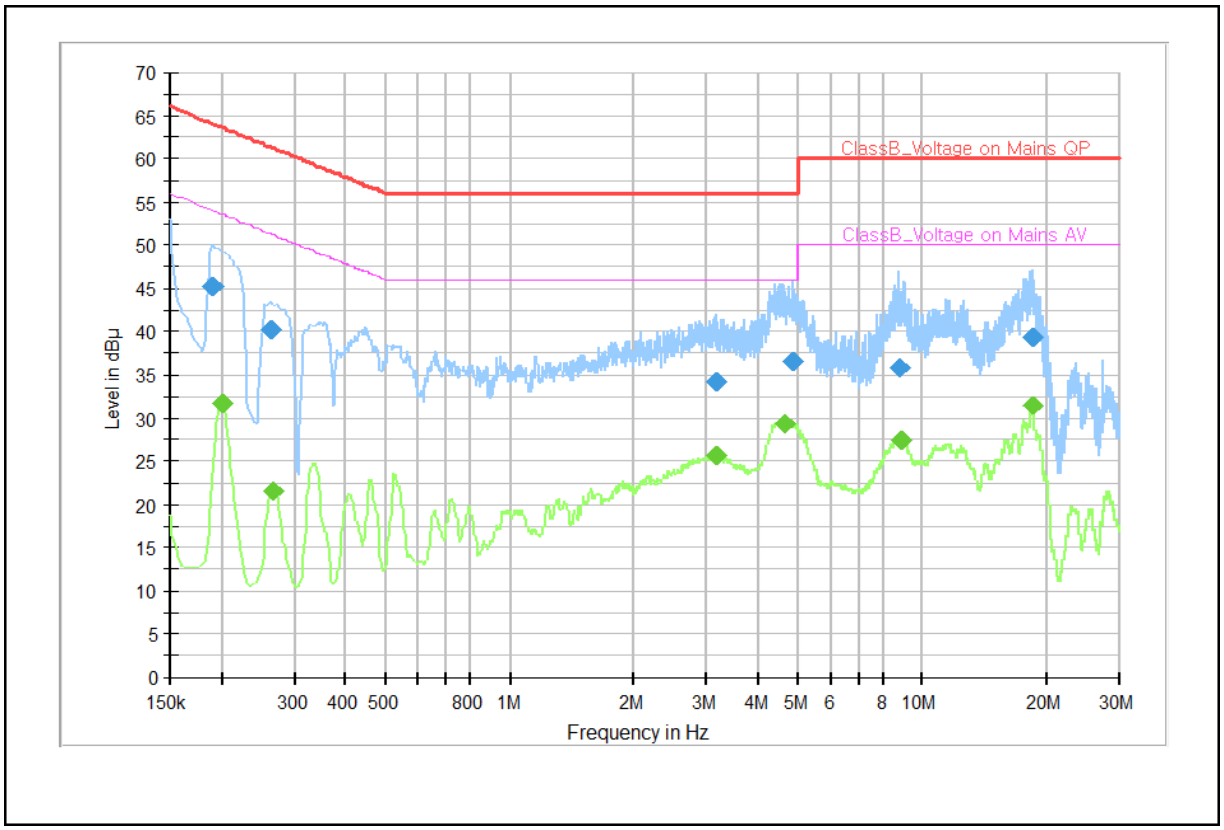
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150	---	23.5	56.0	32.5	N	9.8
0.150	49.3	---	66.0	16.7	L1	9.9
0.197	50.5	---	63.7	13.2	N	10.0
0.206	---	33.8	53.4	19.5	L1	10.0
0.267	44.2	---	61.2	17.1	N	9.8
0.274	---	25.8	51.0	25.2	L1	9.9
0.339	40.0	---	59.2	19.3	N	10.1
0.346	---	18.9	49.1	30.1	N	10.1
4.279	36.9	---	56.0	19.1	N	9.9
4.358	---	28.9	46.0	17.1	L1	9.9
10.577	---	29.4	50.0	20.6	N	10.2
10.977	37.7	---	60.0	22.3	N	10.2

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



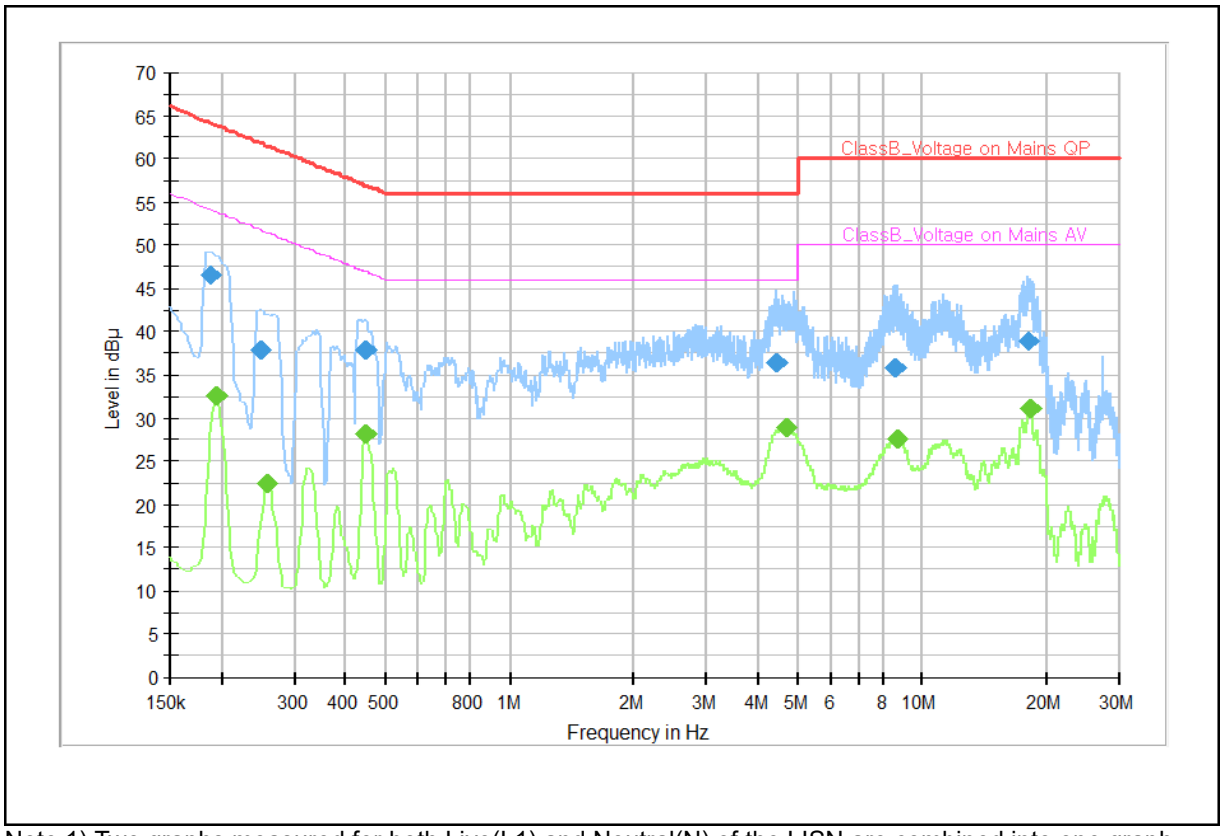
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.191	45.2	---	64.0	18.8	N	10.0
0.202	---	31.7	53.5	21.8	L1	10.0
0.263	40.3	---	61.4	21.1	L1	9.9
0.265	---	21.5	51.3	29.8	N	9.8
3.147	34.2	---	56.0	21.8	N	9.9
3.163	---	25.6	46.0	20.4	L1	9.9
4.634	---	29.3	46.0	16.7	L1	9.9
4.835	36.6	---	56.0	19.4	N	9.9
8.813	35.8	---	60.0	24.2	N	10.1
8.862	---	27.4	50.0	22.6	L1	10.1
18.416	39.3	---	60.0	20.7	N	10.6
18.418	---	31.4	50.0	18.6	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 3: AC Mains



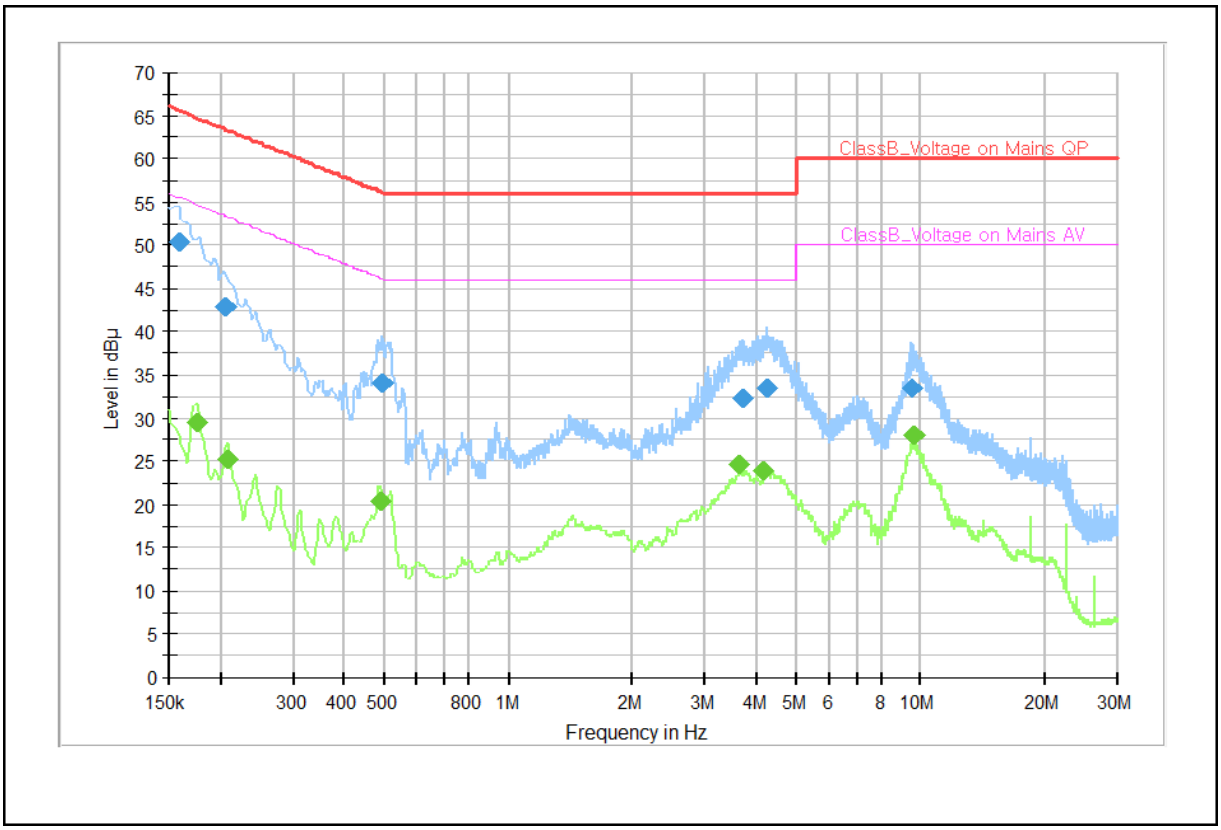
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.188	46.6	---	64.1	17.5	N	10.0
0.195	---	32.6	53.8	21.2	L1	10.0
0.249	38.0	---	61.8	23.8	N	9.7
0.258	---	22.6	51.5	28.9	L1	9.9
0.447	---	28.2	46.9	18.8	L1	10.2
0.447	38.0	---	56.9	18.9	L1	10.2
4.418	36.3	---	56.0	19.7	N	9.9
4.666	---	29.0	46.0	17.0	L1	9.9
8.648	35.7	---	60.0	24.3	N	10.1
8.684	---	27.5	50.0	22.5	L1	10.1
18.114	38.9	---	60.0	21.1	N	10.5
18.236	---	31.1	50.0	18.9	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 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)
0.159	50.4	---	65.5	15.2	L1	10.0
0.175	---	29.5	54.7	25.2	L1	10.0
0.206	42.7	---	63.4	20.6	L1	10.0
0.209	---	25.2	53.3	28.1	L1	10.0
0.488	---	20.3	46.2	25.9	L1	10.2
0.494	33.9	---	56.1	22.2	L1	10.2
3.633	---	24.7	46.0	21.3	N	9.9
3.687	32.3	---	56.0	23.7	L1	9.9
4.162	---	23.9	46.0	22.1	N	9.9
4.250	33.4	---	56.0	22.6	N	9.9
9.575	33.4	---	60.0	26.6	L1	10.2
9.654	---	28.0	50.0	22.0	L1	10.2

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 [kHz]	Video Bandwidth [kHz]	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 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

EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Next Calibration	
					Date	Interval (Month)
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2022-02-04	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-093	Preamplifier	310N	SONOMA	273122	2022-01-21	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-037	WideBand Horn Antenna	WBH 18-40K	R&S	11201	2023-02-15	24
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	-	-

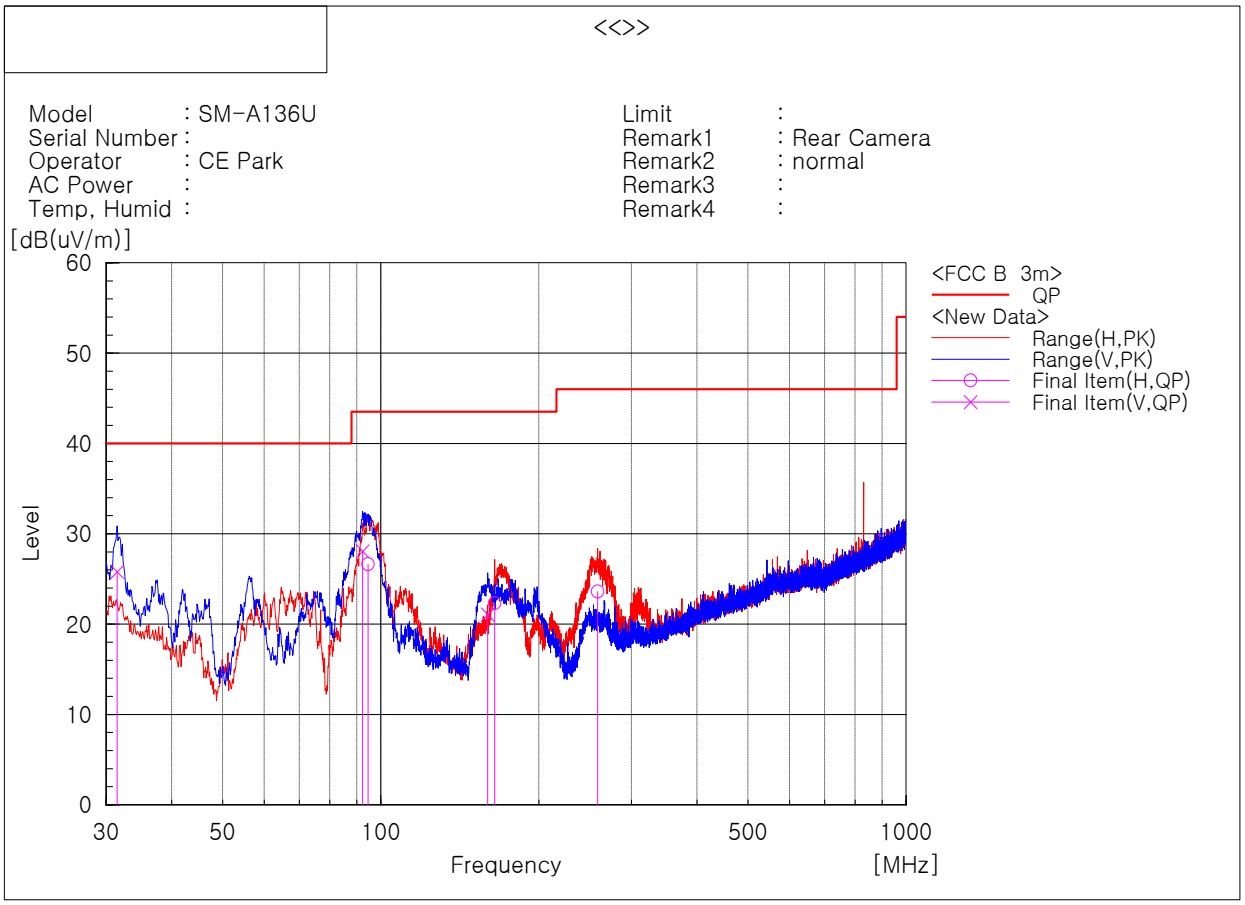
5.2.1 Temperature and humidity condition

Test date	2021-09-30 ~ 2021-10-01	**Test engineer**	Chang-Eun Park
Climate condition	Ambient temperature	(22.3 ± 0.5) ℃	Limit (15.0 to 35.0) ℃
	Relative humidity	(57.1 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.
	Atmospheric pressure	(100.4 ± 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



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]	Remark
1	31.455	V	33.1	-7.3	25.8	40.0	14.2	102	23	
2	92.322	V	43.7	-15.6	28.1	43.5	15.4	113	71	
3	94.505	H	41.7	-15.1	26.6	43.5	16.9	201	124	
4	159.738	V	35.3	-14.2	21.1	43.5	22.4	100	115	
5	164.709	H	36.5	-14.2	22.3	43.5	21.2	185	94	
6	258.678	H	33.9	-10.3	23.6	46.0	22.4	132	48	

Note1) Receiving antenna polarization : Horizontal, Vertical

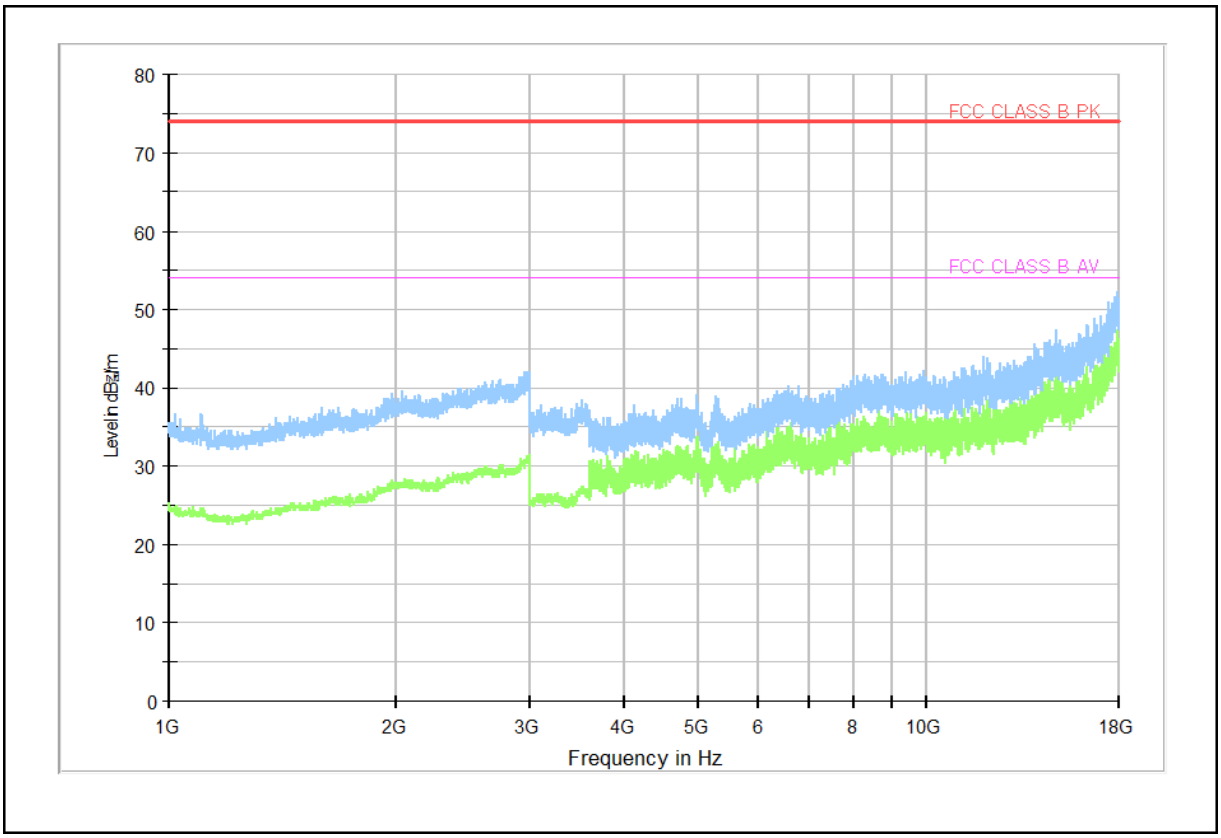
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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

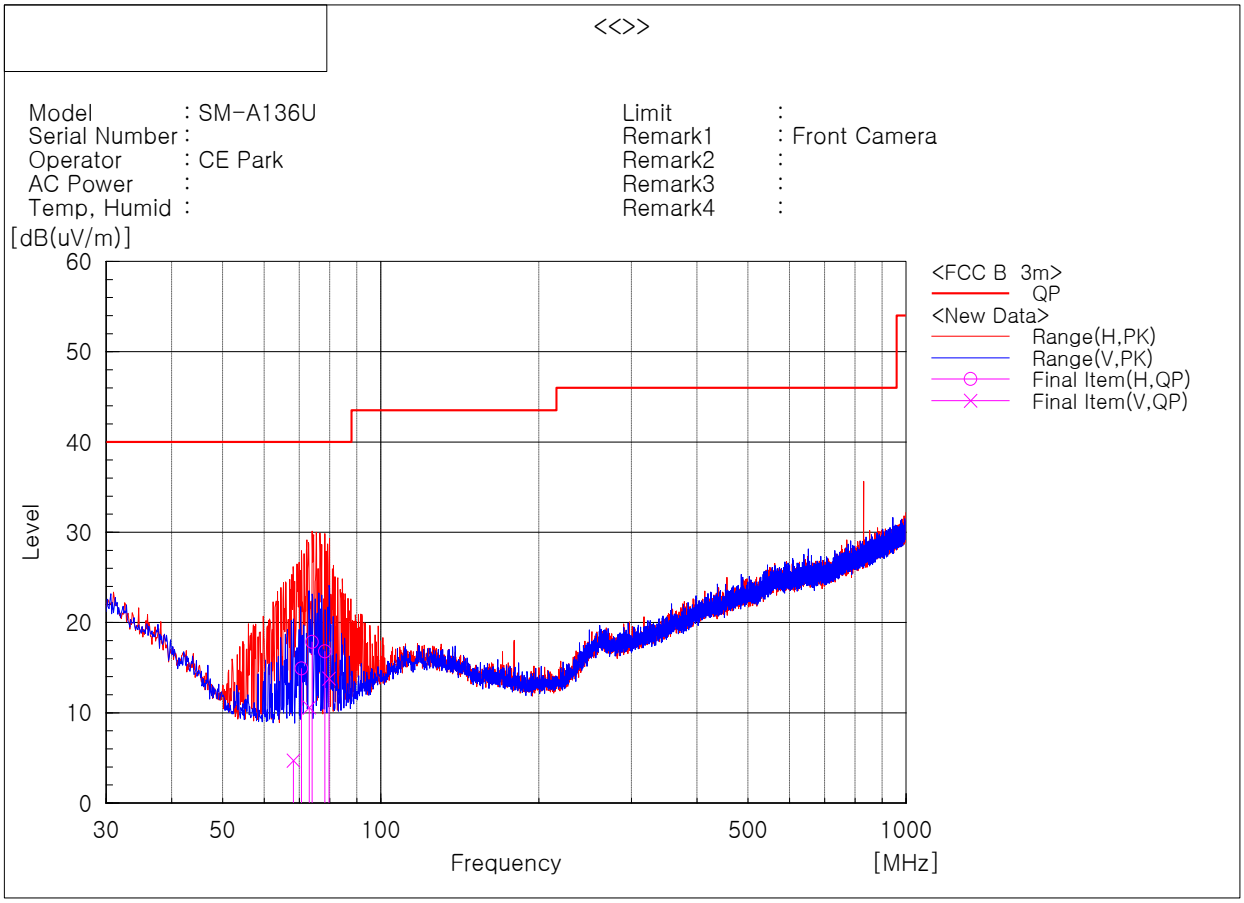
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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



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]	Remark
1	68.194	V	23.1	-18.4	4.7	40.0	35.3	120	97	
2	70.619	H	33.1	-18.2	14.9	40.0	25.1	263	360	
3	73.044	V	28.7	-18.1	10.6	40.0	29.4	306	82	
4	74.014	H	35.9	-18.1	17.8	40.0	22.2	247	352	
5	78.258	H	34.6	-17.8	16.8	40.0	23.2	257	143	
6	79.712	V	31.4	-17.6	13.8	40.0	26.2	270	57	

Note1) Receiving antenna polarization : Horizontal, Vertical

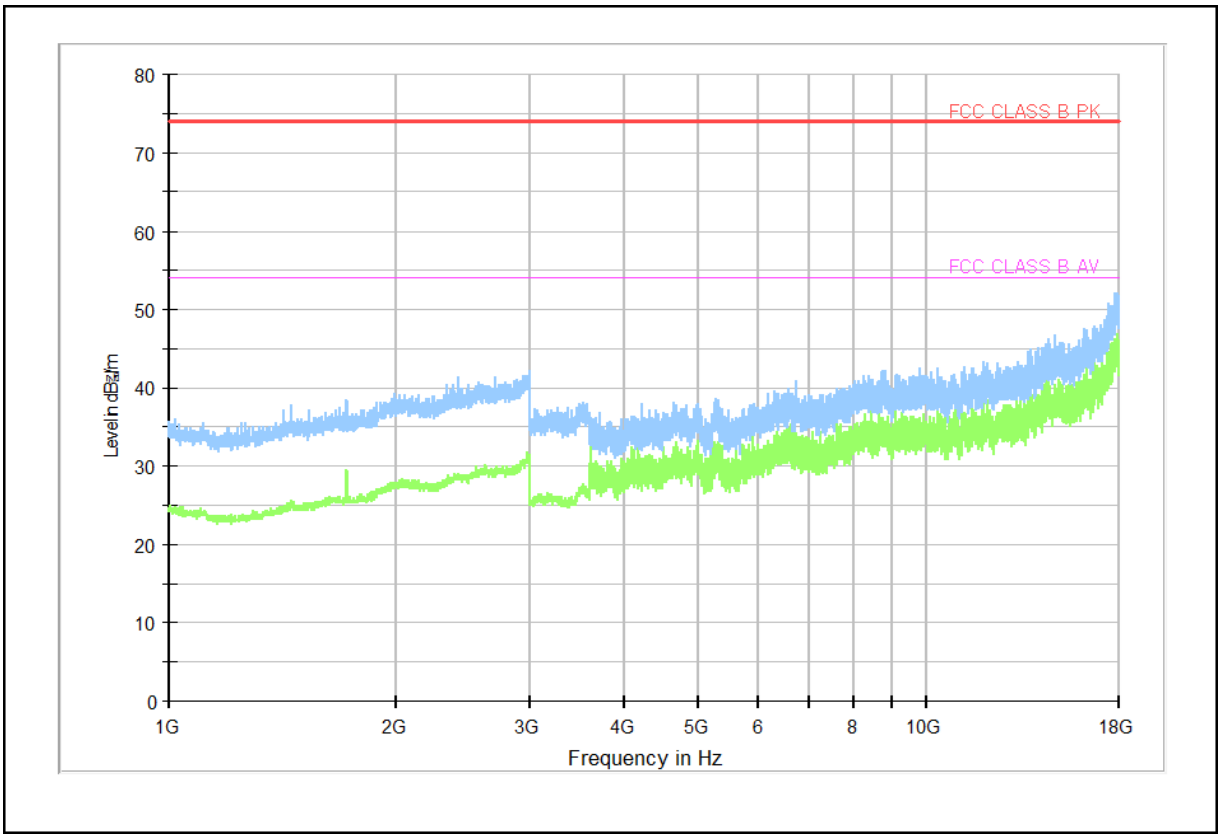
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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

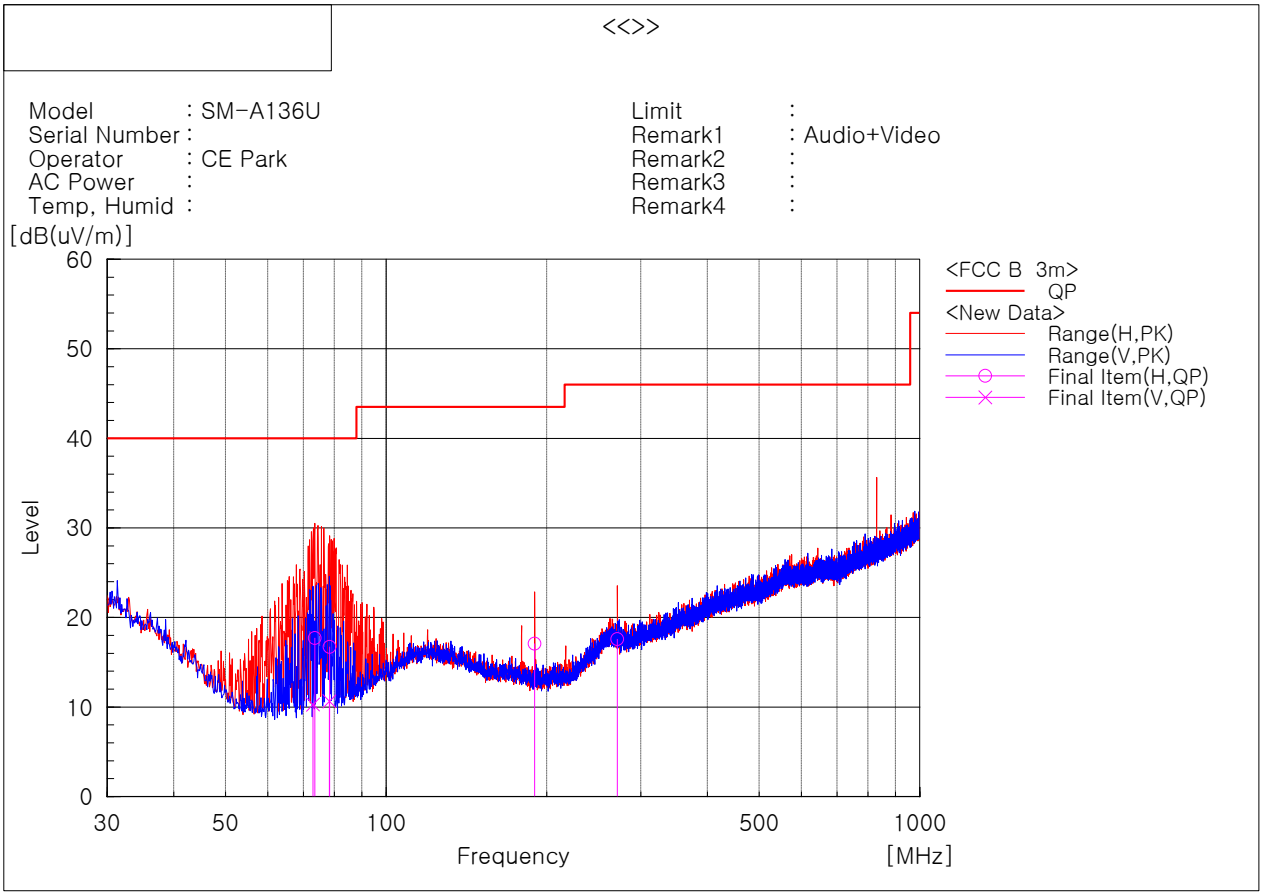
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

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

□ Operating Mode 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]	Remark
1	72.922	V	28.4	-18.1	10.3	40.0	29.7	306	35	
2	73.529	H	35.8	-18.1	17.7	40.0	22.3	261	351	
3	78.258	V	28.4	-17.8	10.6	40.0	29.4	315	43	
4	78.379	H	34.4	-17.7	16.7	40.0	23.3	238	114	
5	189.808	H	32.2	-15.1	17.1	43.5	26.4	152	359	
6	271.166	H	28.1	-10.5	17.6	46.0	28.4	107	84	

Note1) Receiving antenna polarization : Horizontal, Vertical

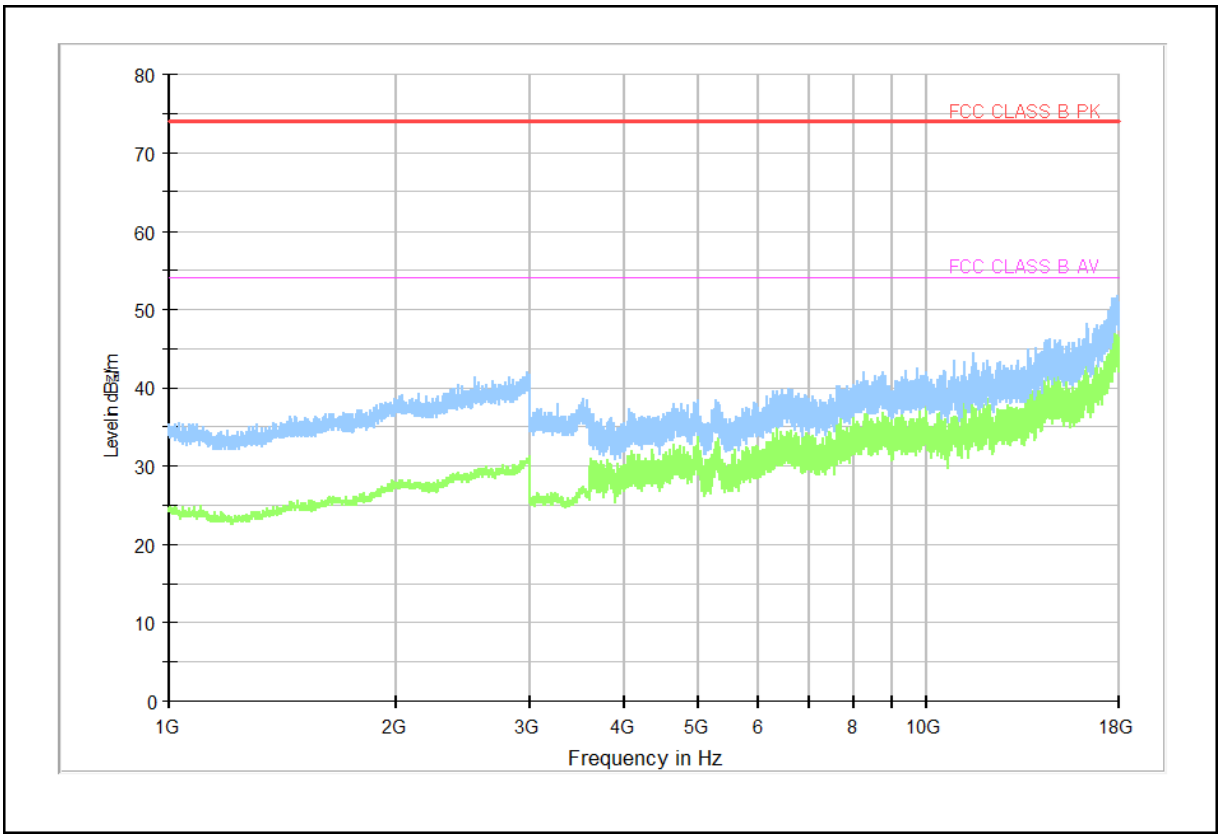
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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

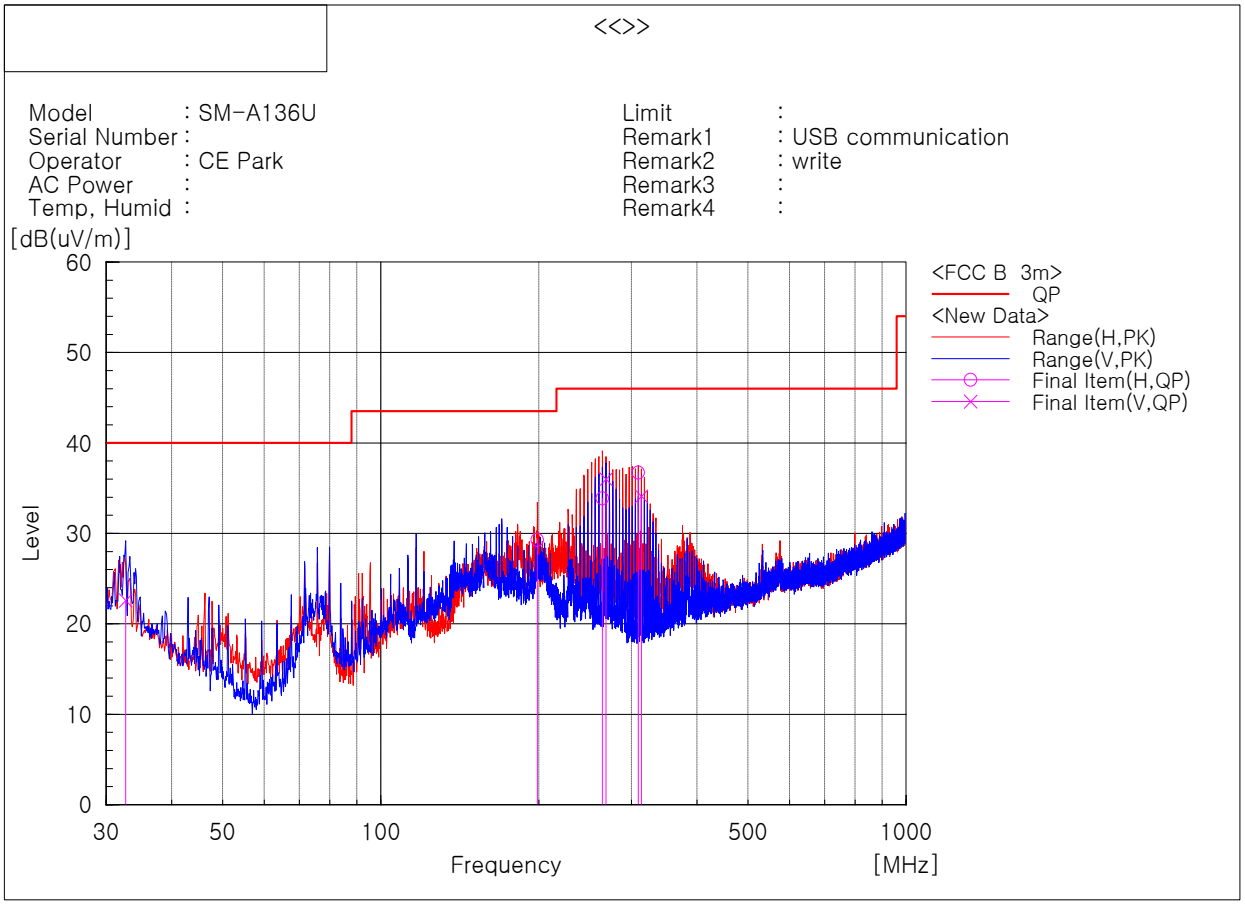
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

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

□ Operating Mode 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]	Remark
1	32.668	V	30.5	-7.9	22.6	40.0	17.4	100	49	
2	198.659	H	44.1	-14.8	29.3	43.5	14.2	100	280	
3	264.134	H	44.2	-10.3	33.9	46.0	12.1	100	288	
4	268.256	V	46.4	-10.4	36.0	46.0	10.0	179	234	
5	309.239	H	46.5	-9.8	36.7	46.0	9.3	100	263	
6	313.361	V	43.8	-9.7	34.1	46.0	11.9	156	322	

Note1) Receiving antenna polarization : Horizontal, Vertical

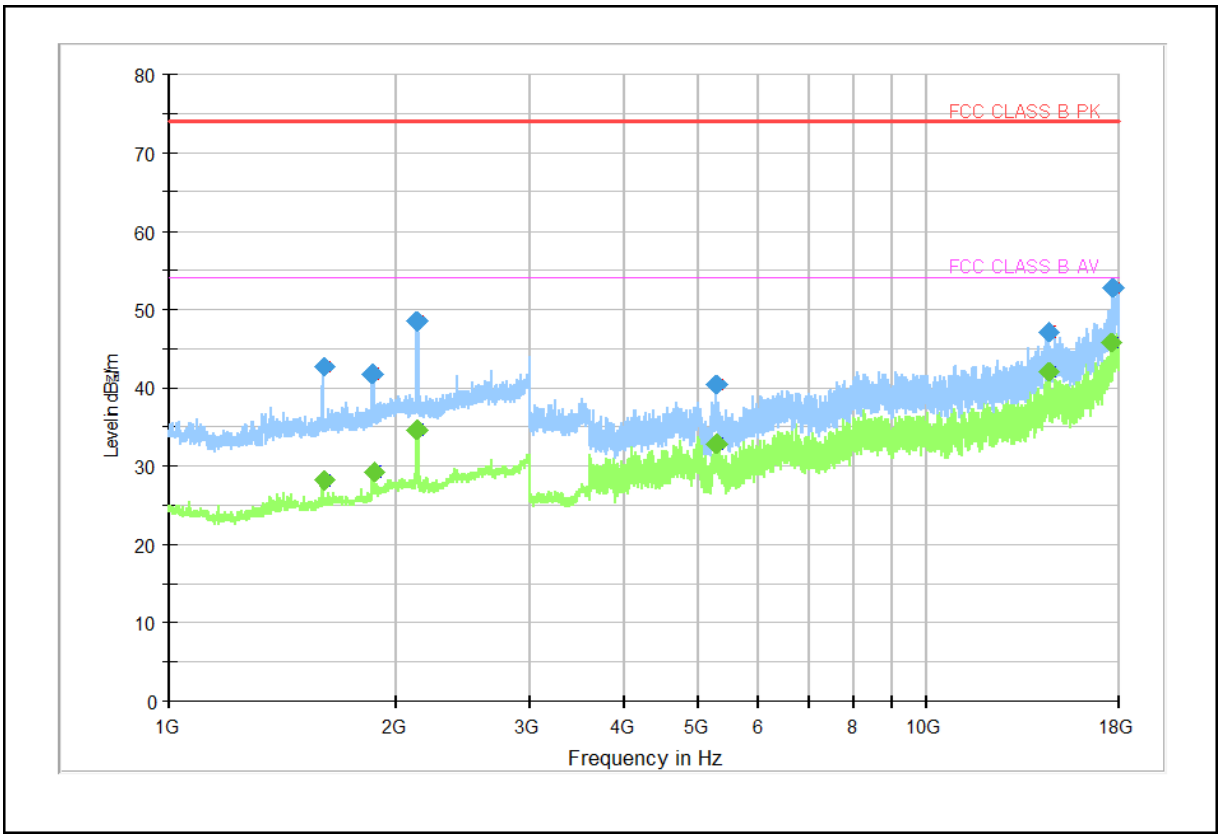
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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)
1 599.000	42.61	---	74.00	31.39	112.60	V	143.00	9.30
1 599.500	---	28.13	54.00	25.87	105.10	V	143.00	9.30
1 860.000	41.83	---	74.00	32.17	137.80	V	0.00	10.40
1 865.500	---	29.31	54.00	24.69	101.10	V	0.00	10.40
2 126.000	48.44	---	74.00	25.56	104.60	V	249.00	11.90
2 129.000	---	34.53	54.00	19.47	113.90	V	245.00	11.90
5 298.500	40.42	---	74.00	33.58	100.00	V	228.00	8.50
5 299.500	---	32.89	54.00	21.11	108.50	V	71.00	8.50
14 492.000	47.09	---	74.00	26.91	103.60	V	47.00	29.70
14 501.000	---	42.04	54.00	11.97	127.00	H	359.00	29.70
17 511.500	---	45.70	54.00	8.30	112.70	H	290.00	37.20
17 711.500	52.80	---	74.00	21.20	109.70	H	90.00	38.10

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