Project No.	LBE20201017	Issue No.	2	
	Name of organization	Samsung Elec	tronics Co., Ltd.	
Applicant	Address	(Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea		
	Date of receipt	November 9, 2020		
	Type of device	🛛 Class B Perso	eivers subject to part15 onal Computers and peripherals 3 digital devices and peripherals t Receiver	
	Equipment authorization	Certification	Supplier's Declaration of Conformity	
	FCC ID	A3LSMA125F		
	Kind of product	Mobile Phone		
FUT	Model No.	SM-A125F/DSN		
EUT	Variant Model No.	Refer to clause 4.6		
		SAMSUNG ELECTRONICS VIETNAM CO.,LTD Yenphong 1 - I.P Yentrung Commune, Yenphong Dist., Bac Ninh Province, Vietnam		
	Manufacturer	Samsung Electronics Vietnam Thai Nguyen Co., Ltd. Yen Binh Industrial Zone Pho Ten Dist., Thai Nguyen Province, Vietnam		
		SAMSUNG INDIA ELECTRONICS PVT LTD B-1 Sector-81, Phase-II NOIDA U.P. INDIA		
Applied Sta	Indards	47 CFR Part 15	, Subpart B, Class B / ANSI C63.4-2014	
Test Period	1	November 9, 20	20 ~ November 12, 2020	
Issue date		March 16, 2021		
The equip	: Complied oment under test has found the attached test result for		with the applied standards.	
	: Soo-Joon Kim S. J. Kim		ed 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	November 13, 2020	There are no revisions and this version is basic test report.
Issue 1	November 16, 2020	The variant models (SM-A125F, SM-A125F/DS) were added on clause 4.6.1 as per customer's request.
Issue 2	March 16, 2021	The variant models (SM-A125F, SM-A125F/DS) were deleted on clause 4.6.1 as per customer's request.

※ 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 Disturbance (Mains port)	47 CFR Part 15 Subpart B / ANSI C63.4-2014	Complied
	Radiated Disturbance	(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, Republic of 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:

Mark	Description	Model No.	Serial No.	Manufacturer / Trademark	FCC ID	
A	Mobile Phone	SM-A125F/DSN	-	SAMSUNG	A3LSMA125F	
В	Battery	EB-A217ABY	-	SDI	-	
С	Headset	EHS64AVFWE	-	Cresyn	-	
D	Data Cable	EP-DR140	-	RFTECH	-	
E	Micro SD Card	64GB	-	SAMSUNG	DoC	
	F Laptop Computer	Laptop		1WYRYM2	Dell	DoC
		Latitude5580	D3HRYM2	Dell	DoC	
G	Laptop	Laptop	5DEA	Dell	DoC	
G	AC Adapter	LA65NM130	5B3C	Dell	DoC	
н	Mouse	AA-SM7PCPB	CN57BA5903634ADV 8JJCD4371	SAMSUNG	DoC	
		SNJ-B138	Z5F8353	SAMSUNG	DoC	
	Router DIR-80		RF0F1D8018454	D-Link	DoC	
		Router DIR-806A	RF0F1D8011504	D-Link	DoC	
J	Travel Adapter	EP-TA200	R37N4E400C2SE3	SOLU-M	-	

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 (GSM850 Center Frequency) + FM (Low Ch.)
2	Camera (front) + Charging (w/ TA) + FM (Mid Ch.)
3	Charging (w/ TA) + FM (High Ch.)
4	Video + Audio playback from internal memory data + Charging (w/ TA)
5	USB Data Communication with PC (from external memory data)

4.2.2 Radiated Emission

No.	Operating mode
1	Camera (rear) + Charging (w/ TA) + FM (Low Ch.)
2	Camera (front) + FM (Mid Ch.)
3	FM (High Ch.)
4	Video + Audio playback from internal memory data
5	USB Data Communication with PC (from external memory data)

4.3 Details of Sampling

Customer selected, single unit.

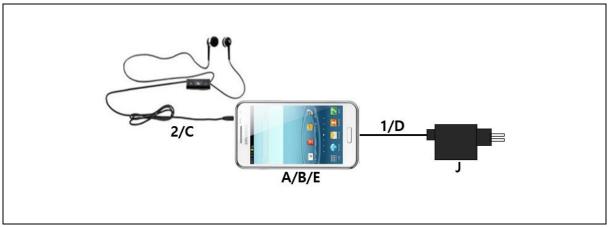
4.4 Used cable description

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:

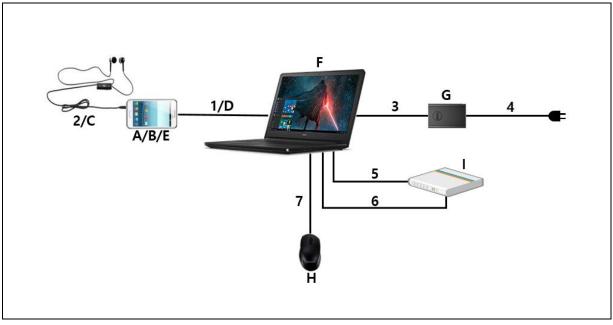
No.	Connected cable	Length [m]	Shielded [Y/N]	Note
1	Data Cable	0.8	Y	From EUT to Laptop Computer or TA
2	Headset	1.2	N	For EUT
3	Power	1.8	N	From Laptop Computer to AC Adapter
4	Power	1.5	N	For Laptop AC Adapter
5	LAN	1.5	N	From Laptop Computer to Router
6	USB	0.8	Y	From Laptop Computer to Router for DC Power
7	USB	1.8	Y	From Laptop Computer to Mouse

4.5 Test arrangement

4.5.1 Conducted Emission

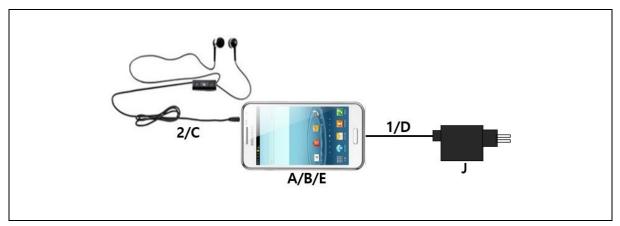


[Mode 1 - 4]

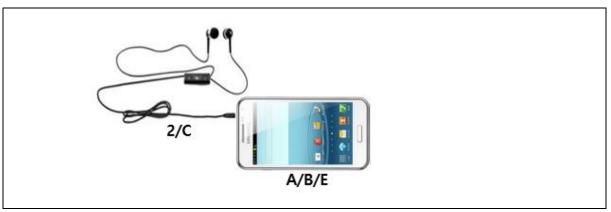


[Mode 5]

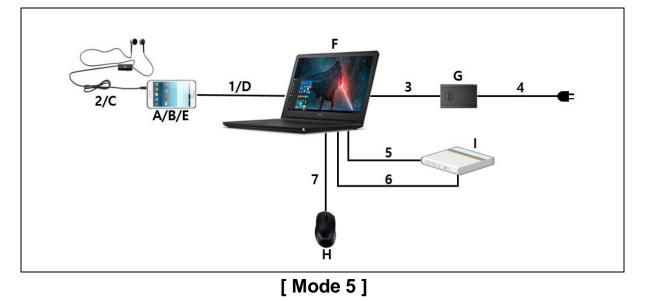
4.5.2 Radiated Emission



[Mode 1]







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4.6 EUT Description

The EUT is a bar type Mobile Phone which can operate on GSM850/900/1800/1900, WCDMA FDD1/5/8, LTE FDD 1/3/5/7/8/20/28, LTE TDD 38/40/41 and incorporates a Bluetooth, Wi-Fi, Camera, FM Radio, GNSS, NFC, Audio and Video.

4.6.1 The variant models

- None

4.7 EUT Frequencies

The highest frequencies (Generated and used)	Frequency [MHz]	
Bluetooth	2 480	

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, 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 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 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)

Measurement uncertainty Test type (C.L. approximately 95 %, k = 2) Conducted disturbance AC Mains 2.83 dB Horizontal 3.97 dB Radiated Disturbance (Below 1 GHz) Vertical 4.39 dB Horizontal 5.21 dB **Radiated Disturbance** (Above 1 GHz) Vertical 5.21 dB

4.9.1 Emission

* 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 disturbance

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.

Frequency range Limits	Resolution Bandwidth Limits [dB(µV)		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 ap	NOTE 1 The lower limit shall apply at the transition frequency.					
NOTE 2 The limit decreases line	early with the logarithm of the fre	equency in the range 0.	15 MHz to 0.50 MHz.			

Limits for conducted disturbance at the mains ports of Class B ITE

5.1.1 Test instrumentation

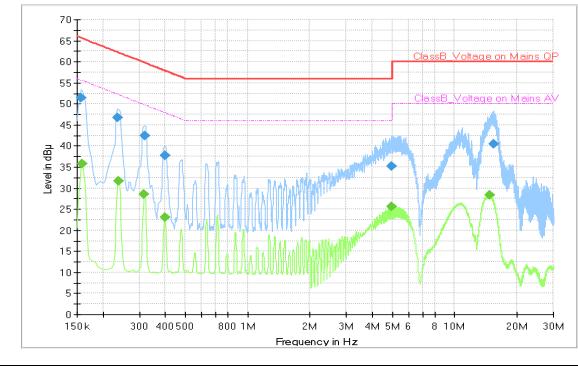
					Next Calibration	
EMC No.	Test Instrument	Fest Instrument Model name Manufacturer Serial No.		Date	Interval (Month)	
E5I-002	Universal Radio Communicator	CMU200	R&S	100612	2021-08-12	12
E5I-023	Signal Generator	SMB100A	R&S	175857	2021-01-29	12
E5I-017	EMI Test Receiver	ESU8	R&S	100483	2021-01-20	12
E5I-127	LISN	ENV216	R&S	102061	2021-07-29	12
-	Test software	EMC32	R&S	Ver 9.26.01	-	-

5.1.2 Temperature and humidity condition

Test date	2020-11-12	Test engineer	Soo-Joon Kim	
	Ambient temperature	temperature (22.5 ± 0.5) °C Limit (15.0 to 35.		
Climate condition	Relative humidity	(37.7 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.	
	Atmospheric pressure	(102.7 ± 0.5) kPa	Limit (86.0 to 106.0) kPa	
Test place	Shield Room (SR8)			

70-65 <u>/oltage on Mains Q</u> B. 60 55 50 45 40 Level in dBµ 35 30 25 20 15 10 5 0 150k 300 400500 800 1M 4M 5M 6 8 10M 20M 30M 2M 3M Frequency in Hz

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.

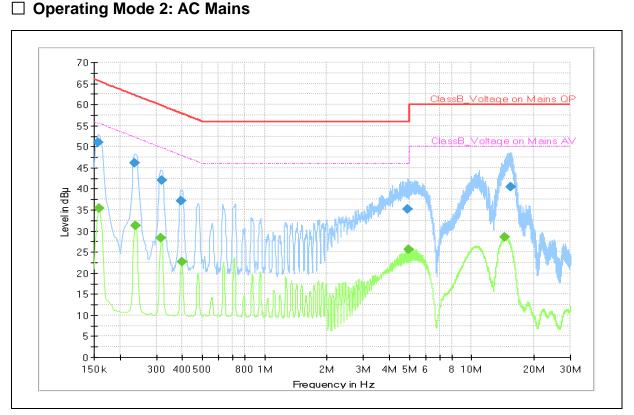
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.157	51.47		65.63	14.16	Ν	10.1
0.159		35.87	55.52	19.65	N	10.1
0.236	46.72		62.25	15.53	Ν	9.9
0.238		31.74	52.17	20.43	N	9.9
0.317		28.46	49.80	21.34	Ν	10.1
0.319	42.40		59.74	17.34	N	10.1
0.398	37.68		57.91	20.23	L1	10.2
0.398		23.09	47.91	24.82	N	10.2
4.945	35.18		56.00	20.82	L1	10.0
4.956		25.58	46.00	20.42	Ν	10.0
14.690		28.30	50.00	21.70	Ν	10.4
15.396	40.43		60.00	19.57	L1	10.3

QP / CAV final measurement	roculte table.

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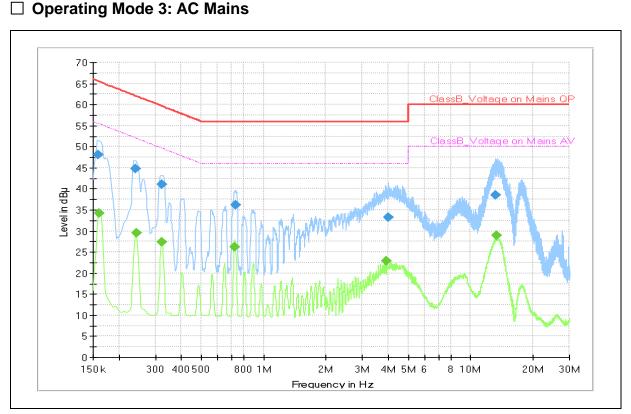
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.157	51.06		65.63	14.57	N	10.1
0.159		35.41	55.52	20.11	N	10.1
0.236	46.24		62.25	16.01	N	9.9
0.238		31.36	52.17	20.81	N	9.9
0.317		28.30	49.80	21.50	N	10.1
0.319	42.04		59.74	17.70	N	10.1
0.395	37.20		57.95	20.75	L1	10.2
0.398		22.75	47.91	25.16	N	10.2
4.931	35.13		56.00	20.87	L1	10.0
4.949		25.64	46.00	20.36	N	10.0
14.467		28.51	50.00	21.49	N	10.4
15.423	40.52		60.00	19.48	L1	10.3

QP / CAV final	measurement results table:

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

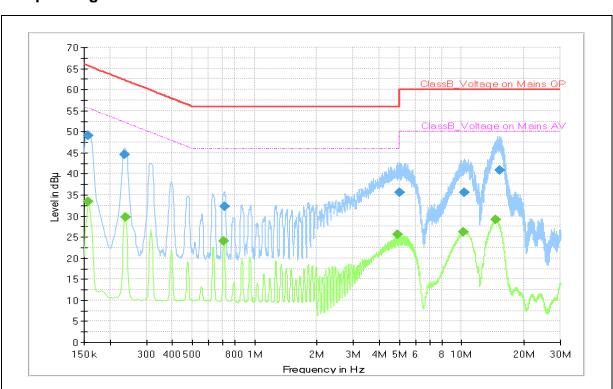
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.159	48.18		65.52	17.34	L1	10.1
0.161		34.29	55.40	21.11	L1	10.2
0.240	44.80		62.10	17.30	L1	9.9
0.242		29.59	52.02	22.43	N	9.9
0.321	41.04		59.68	18.64	N	10.1
0.323		27.39	49.62	22.23	N	10.1
0.728		26.19	46.00	19.81	N	10.1
0.731	36.25		56.00	19.75	N	10.1
3.930		22.82	46.00	23.18	N	10.0
3.989	33.30		56.00	22.70	L1	10.0
13.259	38.60		60.00	21.40	L1	10.3
13.362		28.98	50.00	21.02	Ν	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

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□ Operating Mode 4: AC Mains

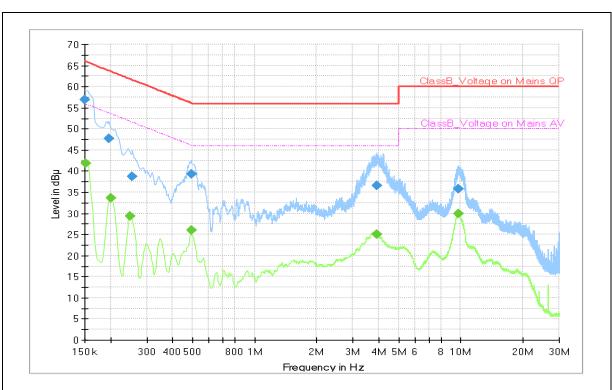
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.157		33.48	55.63	22.15	N	10.1
0.157	49.09		65.63	16.54	N	10.1
0.236	44.64		62.25	17.61	N	9.9
0.238		29.69	52.17	22.48	N	9.9
0.710		24.10	46.00	21.90	N	10.1
0.717	32.28		56.00	23.72	N	10.1
4.927		25.52	46.00	20.48	L1	10.0
4.994	35.67		56.00	20.33	L1	10.0
10.217		26.22	50.00	23.78	L1	10.2
10.295	35.68		60.00	24.32	L1	10.2
14.609		29.09	50.00	20.91	N	10.4
15.356	40.83		60.00	19.17	L1	10.3

QP / CAV final measurement results tables	Output A content of the second sec	sults table:
---	---	--------------

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

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



□ Operating Mode 5: AC Mains

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

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150	56.96		66.00	9.04	N	9.8
0.152		41.75	55.88	14.13	L1	9.9
0.197	47.79		63.73	15.94	L1	10.0
0.202		33.59	53.54	19.95	L1	9.9
0.249		29.23	51.79	22.56	L1	9.7
0.256	38.62		61.57	22.95	N	9.8
0.492		26.03	46.13	20.10	L1	10.1
0.494	39.25		56.10	16.85	L1	10.1
3.917		25.02	46.00	20.98	N	9.8
3.917	36.58		56.00	19.42	N	9.8
9.724		30.00	50.00	20.00	L1	9.8
9.771	35.70		60.00	24.30	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 disturbance

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 Polarisation	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 Polarisation	Resolution Bandwidth [MHz]	Video Bandwidth [MHz]	Turntable position
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 disturbance of Class B ITE 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 $D_1(3m)$ to $D_2(10m)$

: Limit at D_2 = Limit at D_1 + 20Log(D_1 / D_2)

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

5.2.1 Test instrumentation

ENO		Madal			Next Cali	ibration
EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Date	Interval (Month)
E5I-002	Universal Radio Communicator	CMU200	R&S	100612	2021-08-12	12
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2021-01-31	12
E5I-016	EMI Test Receiver	ESU8	R&S	100482	2021-06-04	12
E5I-070	BiLog Antenna	CBL6112D	TESEQ	35383	2020-10-12	24
E5I-121	BiLog Antenna	CBL6112D	TESEQ	36999	2020-10-12	24
E5I-073	Preamplifier	310N	SONOMA	332016	2021-05-07	12
E5I-074	Preamplifier	310N	SONOMA	332017	2021-05-07	12
E5I-035	Horn Antenna	HF907	R&S	100506	2021-08-30	24
E5I-040	Signal Conditioning Unit	SCU-18	R&S	10210	2021-04-06	12
-	Test software	EP7RE	ΤΟΥΟ	Ver 5.8.2	-	-
-	Test software	EMC32	R&S	Ver 9.25.00	-	-

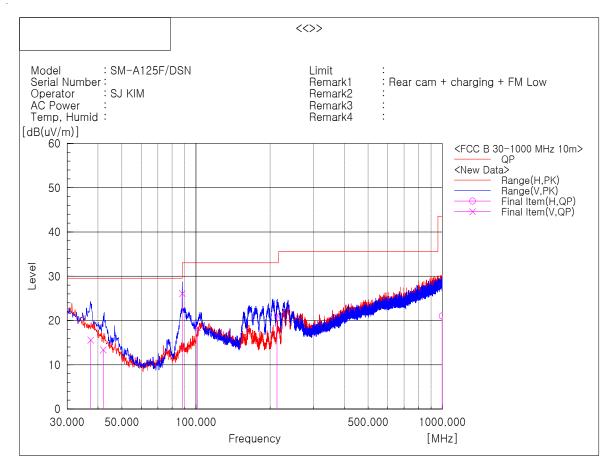
5.2.2 Temperature and humidity condition

Test date	2020-11-09	Test engineer	Soo-Joon Kim					
	Ambient temperature	(24.2 ± 0.5) ℃	Limit (15.0 to 35.0) °C					
Climate condition	Relative humidity	(45.5 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.					
	Atmospheric pressure	(101.8 ± 0.5) kPa	Limit (86.0 to 106.0) kPa					
Test place	Semi-Anechoic Chamber (SAC5)							

5.2.3 Test results

□ Operating Mode 1

- Frequencies below 1 GHz



Final Result

No	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
	37.357	V	24.4	-8.8	15.6	29.5	13.9	106	360	2
2	41.978	V	24.7	-11.3	13.4	29.5	16.1	101	360	2
3	87.989	V	42.0	-15.9	26.1	29.5	3.4	132	22	2
4	101.459	V	32.0	-13.6	18.4	33.0	14.6	141	201	2
Ę	213.162	V	35.6	-14.4	21.2	33.0	11.8	131	286	2
E	997, 488	Н	19.8	1.2	21.0	43.5	22.5	382	119	1

* Radiated emissions (Rx frequency 87.989 MHz) from the transceiver shall be ignored

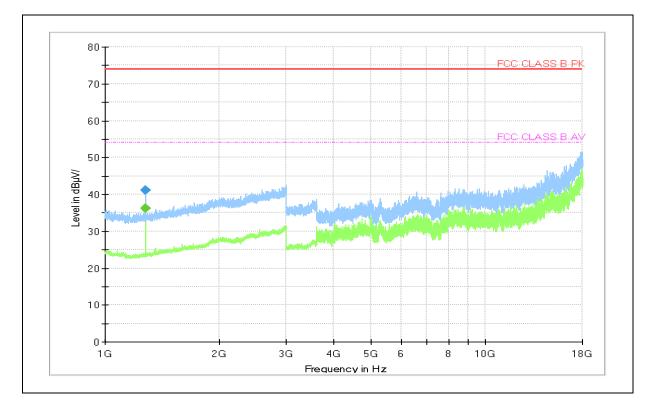
Note1) Receiving antenna polarization : Horizontal, Vertical

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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- Frequencies above 1 GHz

Frequency (MHz)	PK (dBμV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 278.000		36.15	54.00	17.85	101.2	Н	52.0	6.6
1 278.000	41.05		74.00	32.95	102.1	Н	52.0	6.6

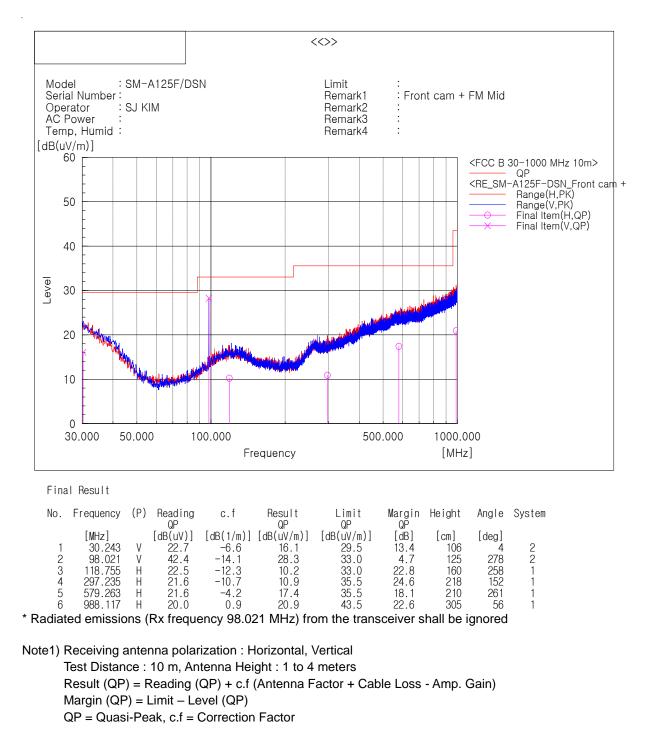
Note 1) Receiving antenna polarization : Horizontal, Vertical

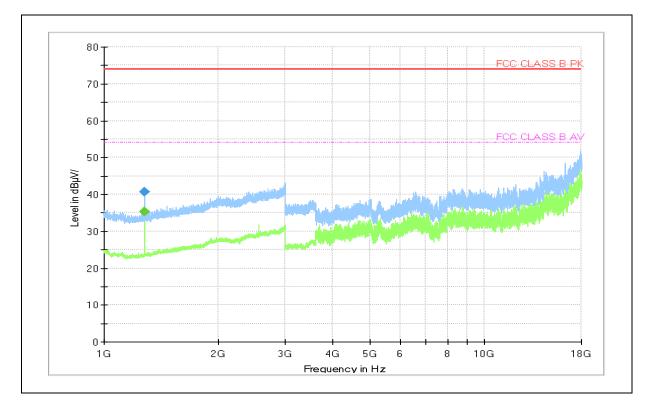
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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





- Frequencies above 1 GHz

Frequency (MHz)	PK (dBμV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 278.000		35.23	54.00	18.77	102.8	Н	50.0	6.6
1 278.000	40.71		74.00	33.29	101.1	Н	50.0	6.6

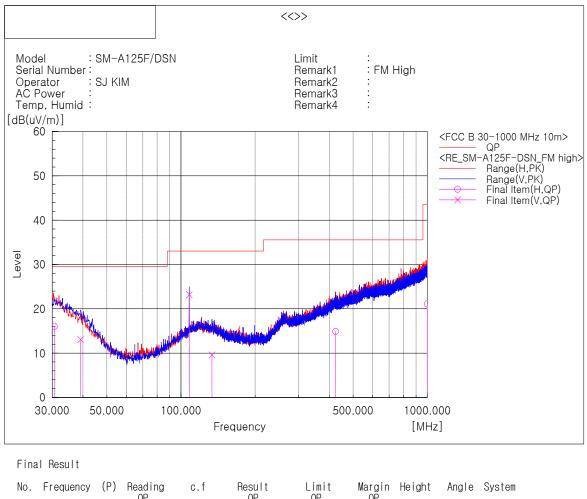
Note 1) Receiving antenna polarization : Horizontal, Vertical

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



6	998.302	Н	19.9	1.2	21.1	43.5	22.4	390	269	1
5	424.063	Н	21.7	-6.8	14.9	35.5	20.6	138	359	1
4	133.548	V	21.7	-12.1	9.6	33.0	23.4	109	32	2
3	107.964	V	35.7	-12.5	23.2	33.0	9.8	109	205	2
2	39.094	V	22.7	-9.6	13.1	29.5	16.4	111	78	2
1	30.606	Н	23.1	-7.0	16.1	29.5	13.4	104	336	1
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
			QP		QP	QP	QP			
No.	Frequency	(P)	Reading	c.t	Result	Limit	Margin	Height	Angle	System

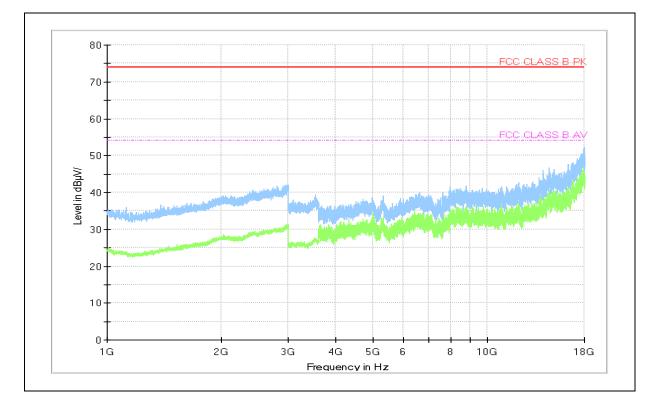
* Radiated emissions (Rx frequency 107.964 MHz) from the transceiver shall be ignored

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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Project No. : LBE20201017

Mobile Phone : SM-A125F/DSN

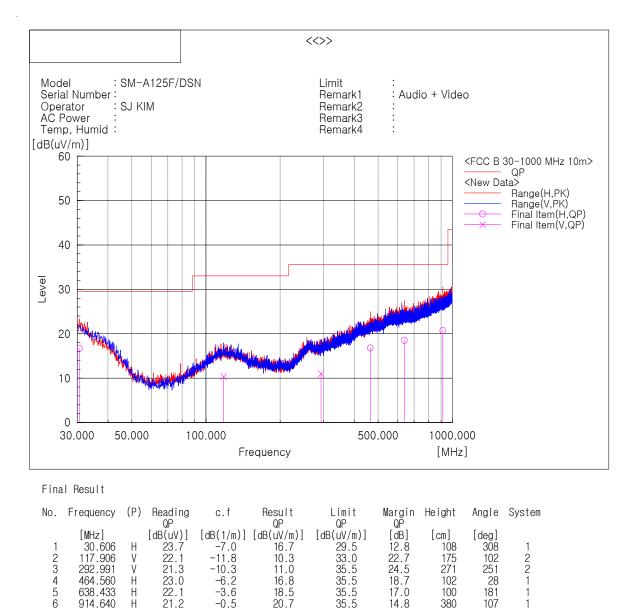


- Frequencies above 1 GHz

Note 1) 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

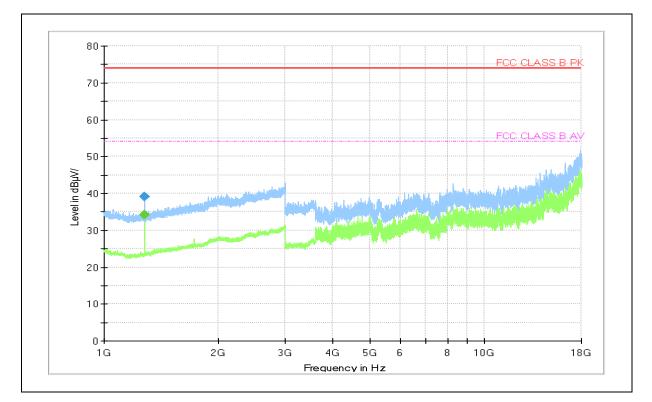


-0.5 914.640 21.2 14.8 380 107 Note1) Receiving antenna polarization : Horizontal, Vertical Test Distance : 10 m, Antenna Height : 1 to 4 meters Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain) Margin (QP) = Limit - Level (QP)QP = Quasi-Peak, c.f = Correction Factor

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1



- Frequencies above 1 GHz

Frequency (MHz)	PK (dBμV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 278.000		34.15	54.00	19.85	101.9	Н	67.0	6.6
1 278.000	39.14		74.00	34.86	100.8	Н	67.0	6.6

Note 1) Receiving antenna polarization : Horizontal, Vertical

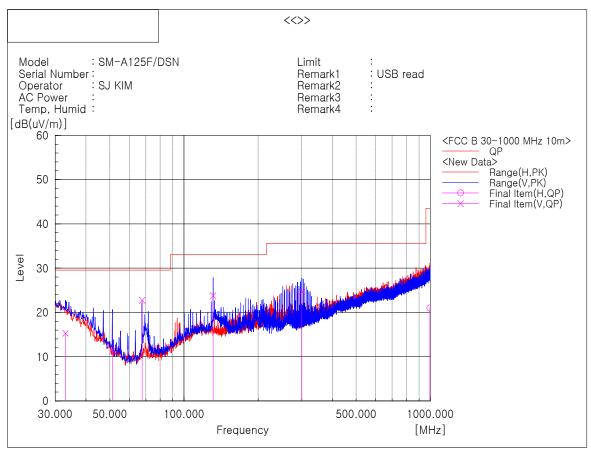
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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 – CISPP Average Corr. – Correction Factor

 $\mathsf{PK} = \mathsf{Peak}, \, \mathsf{CAV} = \mathsf{CISPR}\text{-}\mathsf{Average}, \, \mathsf{Corr.} = \mathsf{Correction} \; \mathsf{Factor}$

□ Operating Mode 5

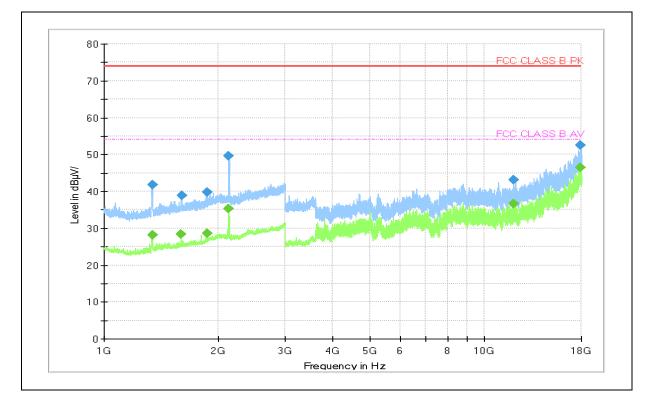
- Frequencies below 1 GHz



Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	33.031	V	22.6	-7.3	15.3	29.5	14.2	102	280	2
2	51.219	V	28.7	-17.3	11.4	29.5	18.1	100	71	2
3	67.588	V	41.4	-18.7	22.7	29.5	6.8	217	253	2
4	131.244	V	35.8	-12.0	23.8	33.0	9.2	102	288	2
5	300.994	V	34.7	-10.0	24.7	35.5	10.8	100	193	2
6	995.877	Н	19.8	1.2	21.0	43.5	22.5	131	149	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



- Frequencies above 1 GHz

Frequency (MHz)	PK (dBµV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 343.000		28.12	54.00	25.88	100.5	Н	62.0	7.2
1 343.500	41.84		74.00	32.16	100.0	Н	62.0	7.2
1 591.500		28.29	54.00	25.71	102.4	V	326.0	9.2
1 598.000	38.79		74.00	35.21	105.1	V	154.0	9.2
1 862.000	39.86		74.00	34.14	100.0	V	109.0	10.6
1 863.500		28.67	54.00	25.33	100.0	V	148.0	10.6
2 128.000		35.22	54.00	18.78	107.5	V	347.0	11.6
2 128.000	49.52		74.00	24.48	102.9	V	347.0	11.6
11 935.500	43.14		74.00	30.86	100.0	Н	82.0	21.5
11 960.000		36.56	54.00	17.44	100.2	Н	135.0	21.4
17 899.500		46.38	54.00	7.62	100.0	Н	316.0	38.6
17 923.500	52.57		74.00	21.43	100.0	V	87.0	38.4

Note 1) 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)

 $\mathsf{PK} = \mathsf{Peak}, \mathsf{CAV} = \mathsf{CISPR}\text{-}\mathsf{Average}, \mathsf{Corr.} = \mathsf{Correction} \mathsf{Factor}$