



KES Co., Ltd.

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Report No.:
KES-EM-22T0760-R1
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EMC TEST REPORT

Test Report No. : KES-EM-22T0760-R1
Date of Issue : Sep. 21, 2022
Product name : Bmat
Model/Type No. : Uneekor Bmat
Variant Mode : -
Applicant : Morethings Co., Ltd.
Applicant Address : Complex-1014, IT Valley. 13, Heungdeok1-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea.
Manufacturer : Morethings Co., Ltd.
Manufacturer Address : Complex-1014, IT Valley. 13, Heungdeok1-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea.
FCC ID : 2A4D4-UBMAT1
Date of Receipt : Aug. 26, 2022
Test date : Aug. 26, 2022 ~ Aug. 29, 2022
Test Results : **In Compliance** **Not in Compliance**

Tested by

Dae Soo, Kim
EMC Test Engineer

Reviewed by

Dong Hun, Jang
EMC Technical Manager

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REPORT REVISION HISTORY

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1.0 General Product Description

Main Specifications of EUT are:

Division	Specificity
PRODUCT SIZE	1133 x 608 x 21 mm
SENSOR SIZE	1033 x 600 x 6 mm
POWER	DC 5 V / 1 A

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1.1 Test Voltage & Frequency

Unless indicated otherwise on the individual data sheet or test results, the test voltage and frequency was as indicated below.

AC 120 V, 60 Hz

1.2 Variant Model Differences

Not applicable

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
Bmat	Uneekor Bmat	-	Morethings Co., Ltd.	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
LAPTOP	HSN-Q07C	5CD8367KND	HP	-
LAPTOP ADAPTOR	HSTNN-CA40	WFTKU0ERLB4QC H	HP	-
AC / DC ADAPTOR	A1487	-	APPLE	-

1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
Bmat (EUT)	USB-TYPE C	AC / DC ADAPTOR	USB	1.0	U
	RJ-45	LAPTOP	RJ-45	3.0	U

* Unshielded = U, Shielded = S

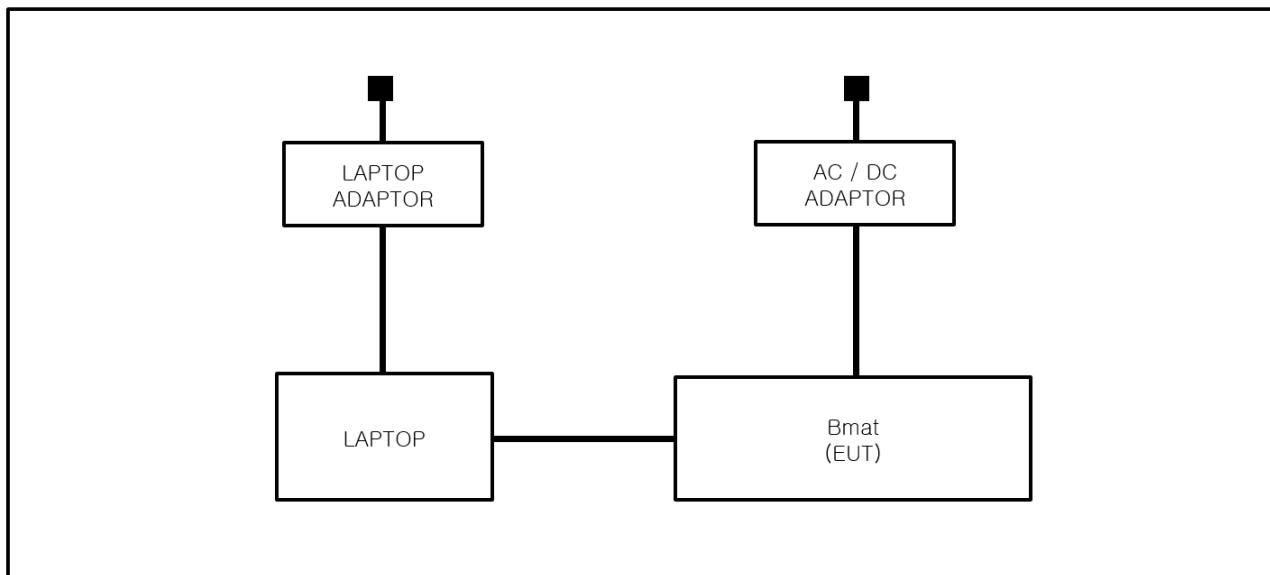
1.7 EUT Operating Mode(s)

Test mode	operating
OPERATING	It was tested using the ping test of LAPTOP and a dedicated program to verify that it was operating normally.

EUT Test operating S/W		
Name	Version	Manufacture Company
BalanceMat	1.0.0.0	Uneekor Inc.

1.8 Configuration

- AC Main
- DC Main





1.9 Remarks when standards applied

N/A

1.10 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less.

1.11 Test Facility

The measurement facility is located at 473-21, Gayeo-ro, Yeoju-si, Gyeonggi-do, 12658, Korea, Republic of. The sites are constructed in conformance with the requirements of ANSI C63.4a-2017 and CISPR 16-1-4:2019

1.12 Measurement Procedure

- Conducted Emissions

The conducted emission levels were measured on each current-carrying line with the spectrum analyzer operating in the CISPR quasi-peak mode (or peak mode if applicable). The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. If the conducted emission exceed the average limit with the instrument set to the quasi-peak mode, the measurements are made in the average mode. The emission spectrum was scanned from 150 kHz to 30 MHz. The highest emission amplitudes relative to the appropriate limits were measured and have been recorded. Quasi-peak readings are distinguished with a "QP".

- Radiated Electric Field Emissions

The test was done at a SEMI ANECHOIC CHAMBER with quasi-peak detector. The final test data was measured using a Quasi-Peak detector below 1 GHz at 10 m or 3 m distance and a Peak and Average detector above 1 GHz at 3 m distance. Test was proceeded worst case test mode and cable configuration.

Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency.

Measurement procedures was In accordance with ANSI C63.4a:2017 7.3.3, 7.3.4, 8.3.1.1, 8.3.1.2, 8.3.2.1, 8.3.2.2



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1.13 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
KOREA	RRA	EMI (3 m & 10 m Semi-Aechoic Chamber ,10 m Open Area and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KR0100
International	KOLAS	EMI (3 m & 10 m Semi-Aechoic Chamber , and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KT489
USA	FCC	3 m & 10 m Semi-Aechoic Chamber, 10 m Open Area and Conducted test site to perform FCC Part 15/18 measurements.	 KR0100
Canada	ISED	3 m & 10 m Semi-Aechoic Chamber and Conducted test site	 23298
JAPAN	VCCI	Mains Ports Conducted Interference Measurement, Telecommunication Ports Conducted Disturbance Measurement and Radiation 10 meter site, Facility for measuring radiated disturbance above 1 GHz	 R-20056, C-20036 T-20040, G-20057
Europe	TÜV SÜD	EMI (3 m & 10 m Semi-Aechoic Chamber , 10 m Open Area and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 CARAT 001633 0004

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2.0 Test Regulations

The emissions tests were performed according to following regulations:

47 CFR Part 15, Subpart B

<input type="checkbox"/> CISPR 22:2009 +A1:2010	<input type="checkbox"/> Class A	<input type="checkbox"/> Class B
<input checked="" type="checkbox"/> ANSI C63.4a-2017	<input type="checkbox"/> Class A	<input checked="" type="checkbox"/> Class B

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2.1 Conducted Emissions at Mains Power Ports

Test Date

Aug. 29, 2022

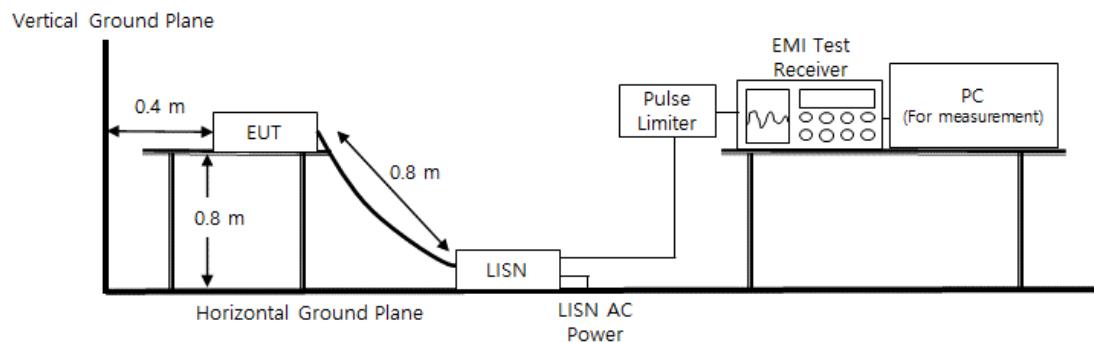
Test Location

Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
<input checked="" type="checkbox"/>	EMI Test S/W	EMC32	R & S	9.12.00	-	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESR3	R & S	101783	12, 28, 2022	1 Year
<input checked="" type="checkbox"/>	LISN	ENV216	R & S	101787	12, 27, 2022	1 Year
<input checked="" type="checkbox"/>	LISN	ESH2-Z5	R & S	100450	12, 27, 2022	1 Year
<input checked="" type="checkbox"/>	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022	1 Year

Diagram of test setup





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Test Conditions

Temperature: (23,6 \pm 0,1) °C
Relative Humidity: (45,7 \pm 0,1) % R.H.

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Results

The requirements are:

- PASS
- NOT PASS
- NOT APPLICABLE

Remarks

See Appendix A for test data.

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2.2 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Aug. 26, 2022

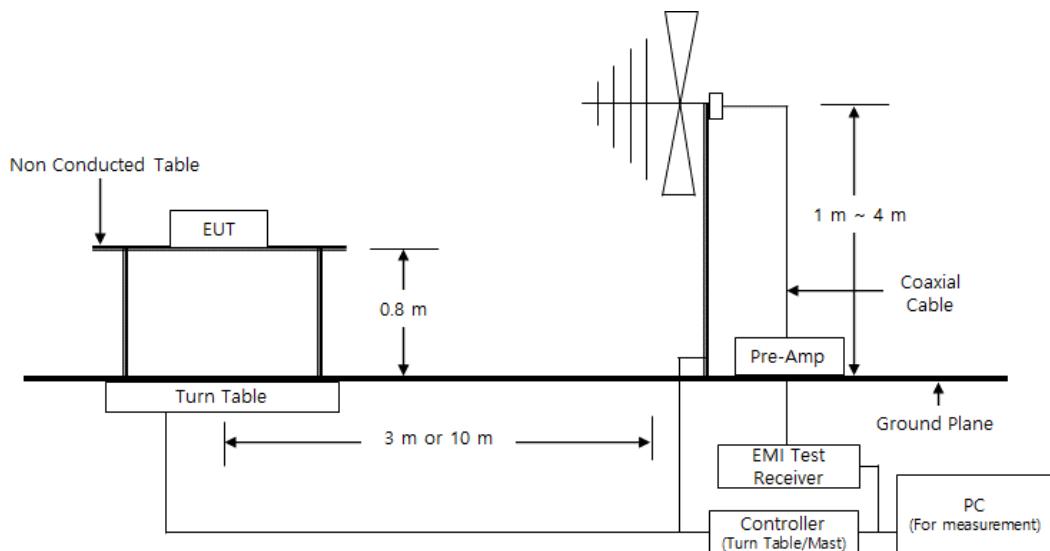
Test Location

OPEN AREA TEST SITE #2 SEMI ANECHOIC CHAMBER #4(10 m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
<input checked="" type="checkbox"/>	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESU26	R & S	100551	03, 31, 2023	1 Year
<input checked="" type="checkbox"/>	AMPLIFIER	SCU 01	R & S	100603	11, 24, 2022	1 Year
<input checked="" type="checkbox"/>	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022	2 Year
<input checked="" type="checkbox"/>	ATTENUATOR	8491A	HP	32173	03, 08, 2023	1 Year

Diagram of test setup





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Test Conditions

Temperature: (23,9 \pm 0,0) °C
Relative Humidity: (45,4 \pm 0,0) % R.H.

Frequency Range of Measurement

30 MHz to 1 GHz

Instrument Settings

IF Band Width: 120 kHz

Test Results

The requirements are:

- PASS
- NOT PASS
- NOT APPLICABLE

Remarks

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2.3 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Aug. 26, 2022

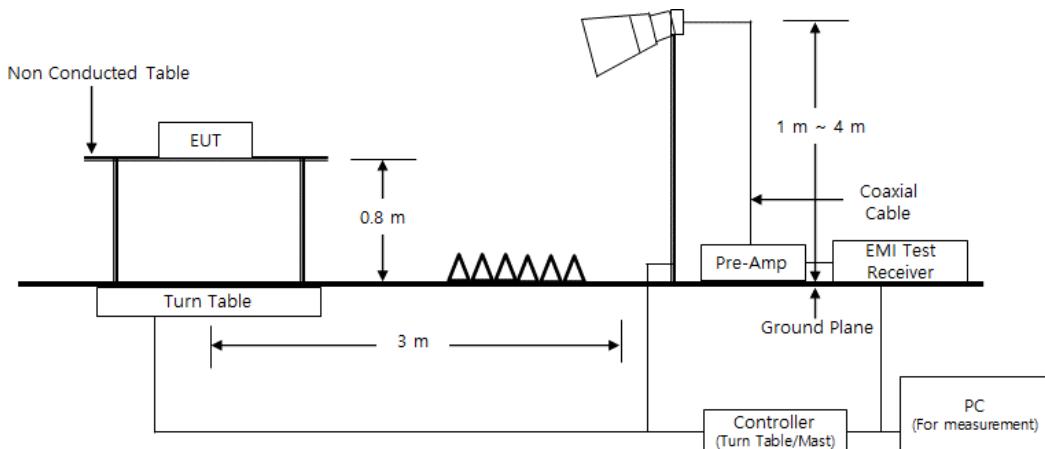
Test Location

SEMI ANECHOIC CHAMBER #4(10 m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
<input checked="" type="checkbox"/>	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESU26	R & S	100551	03, 31, 2023	1 Year
<input checked="" type="checkbox"/>	PREAMPLIFIER	8449B	AGILENT	3008A01742	12, 27, 2022	1 Year
<input checked="" type="checkbox"/>	ATTENUATOR	8491A	HP	35496	03, 08, 2023	1 Year
<input checked="" type="checkbox"/>	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 16, 2022	1 Year

Diagram of test setup





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Test Conditions

Temperature: (23,9 \pm 0,1) °C
Relative Humidity: (45,4 \pm 0,1) % R.H.

Frequency Range of Measurement

1 GHz to 12,5 GHz

Instrument Settings

IF Band Width: 1 MHz

Test Results

The requirements are:

- PASS
- NOT PASS
- NOT APPLICABLE

Remarks

See Appendix A for test data.

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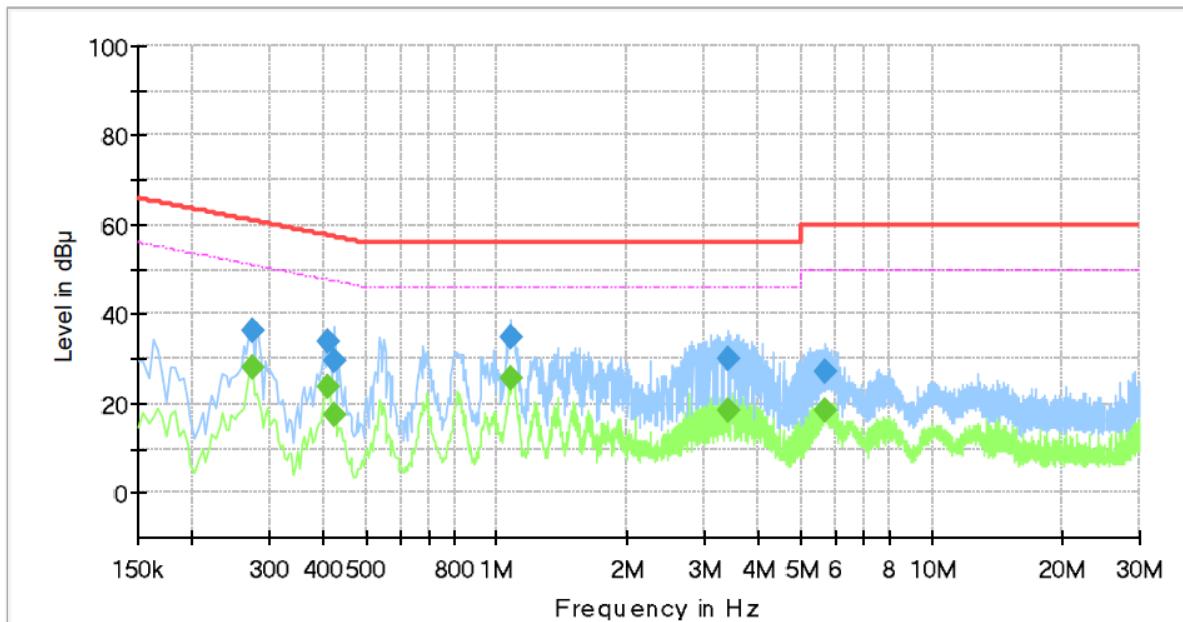
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Common Information

Test Description: Conducted Emission
 Model No.: NaSHOT-A
 Phase: H
 Mode:
 Operator Name: KES



Final Result

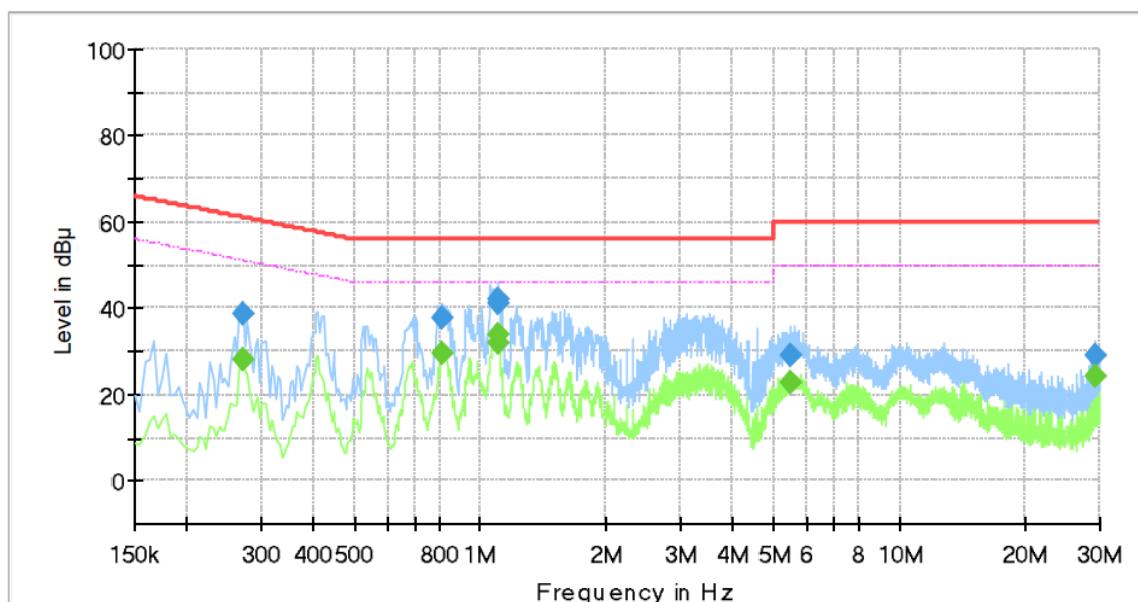
Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.274000	36.32	---	61.00	24.68	1000.0	9.000	L1	19.7
0.274000	---	27.96	51.00	23.04	1000.0	9.000	L1	19.7
0.410000	---	23.99	47.65	23.66	1000.0	9.000	L1	19.8
0.410000	33.94	---	57.65	23.71	1000.0	9.000	L1	19.8
0.422000	---	17.28	47.41	30.13	1000.0	9.000	L1	19.8
0.422000	29.63	---	57.41	27.78	1000.0	9.000	L1	19.8
1.078000	34.89	---	56.00	21.11	1000.0	9.000	L1	20.2
1.078000	---	25.66	46.00	20.34	1000.0	9.000	L1	20.2
3.410000	30.02	---	56.00	25.98	1000.0	9.000	L1	20.3
3.410000	---	18.31	46.00	27.69	1000.0	9.000	L1	20.3
5.694000	27.08	---	60.00	32.92	1000.0	9.000	L1	19.8
5.694000	---	18.58	50.00	31.42	1000.0	9.000	L1	19.8

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NEUTRAL LINE

Common Information

Test Description: Conducted Emission
 Model No.: NaSHOT-A
 Phase: N
 Mode:
 Operator Name: KES



Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.270000	38.60	---	61.12	22.52	1000.0	9.000	N	19.6
0.270000	---	27.88	51.12	23.24	1000.0	9.000	N	19.6
0.806000	---	29.44	46.00	16.56	1000.0	9.000	N	20.1
0.806000	37.88	---	56.00	18.12	1000.0	9.000	N	20.1
1.098000	---	33.68	46.00	12.32	1000.0	9.000	N	20.2
1.098000	42.28	---	56.00	13.72	1000.0	9.000	N	20.2
1.102000	---	32.20	46.00	13.80	1000.0	9.000	N	20.2
1.102000	41.14	---	56.00	14.86	1000.0	9.000	N	20.2
5.518000	---	22.85	50.00	27.15	1000.0	9.000	N	19.8
5.518000	29.10	---	60.00	30.90	1000.0	9.000	N	19.8
29.238000	---	24.26	50.00	25.74	1000.0	9.000	N	21.2
29.238000	29.25	---	60.00	30.75	1000.0	9.000	N	21.2

◆ Calculation

QuasiPeak[dB μ V] / CAverage [dB μ V] = Reading Value[dB μ V] + Corr. [dB]

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

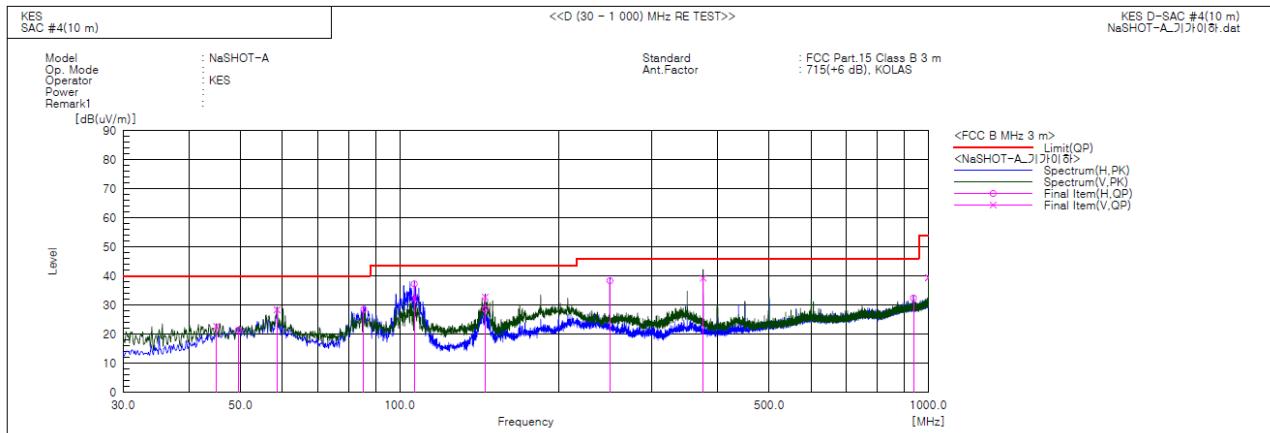
Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

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Radiated Electric Field Emissions(Below 1 GHz)



Final Result

No.	Frequency [MHz]	(P) [dB(uV)]	Reading QP [dB(1/m)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	45.035	V 44.4	-21.7	22.7	40.0	17.3	108.0	137.0		
2	49.521	H 42.8	-21.4	21.4	40.0	18.6	312.0	204.0		
3	58.615	V 50.6	-22.2	28.4	40.0	11.6	143.0	282.0		
4	85.533	H 55.0	-26.4	28.6	40.0	11.4	251.0	219.0		
5	106.630	H 60.3	-23.0	37.3	43.5	6.2	397.0	178.0		
6	106.630	V 55.3	-23.0	32.3	43.5	11.2	166.0	108.0		
7	145.188	H 54.8	-26.1	28.7	43.5	14.8	363.0	81.0		
8	145.188	V 58.9	-26.1	32.8	43.5	10.7	105.0	11.0		
9	249.948	H 58.5	-20.1	38.4	46.0	7.6	291.0	86.0		
10	374.956	V 55.2	-15.9	39.3	46.0	6.7	162.0	248.0		
11	937.556	H 38.0	-5.6	32.4	46.0	13.6	325.0	22.0		
12	1000.000	V 43.7	-4.3	39.4	54.0	14.6	111.0	352.0		

◆ Calculation – SAC #4(10 m)

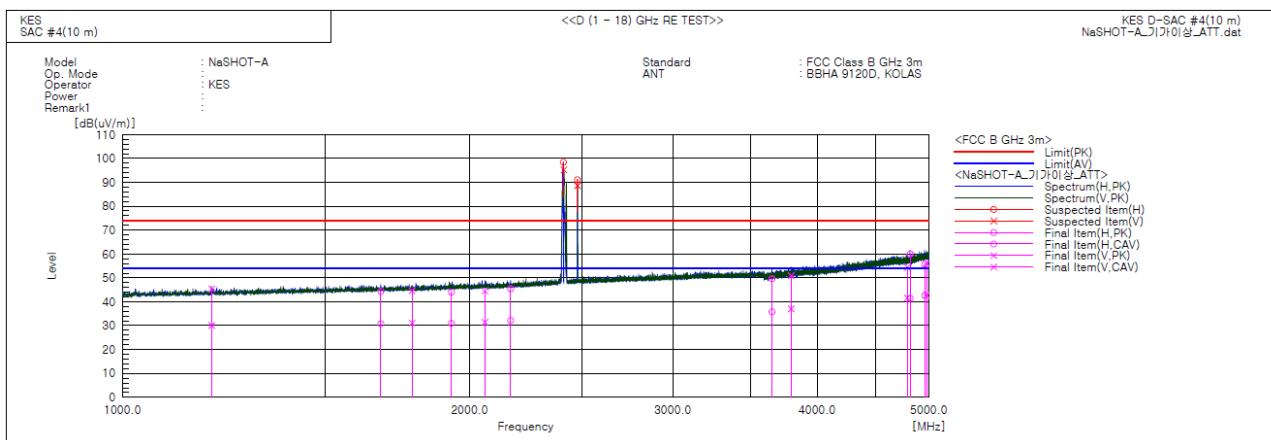
$$\text{Result(QP)} [\text{dB}(\mu\text{V}/\text{m})] = (\text{Reading(QP)} [\text{dB}(\mu\text{V})] + \text{c.f} [\text{dB}(1/\text{m})])$$

$$\text{Margin(QP)} [\text{dB}] = \text{Limit} [\text{dB}(\mu\text{V}/\text{m})] - \text{Result(QP)} [\text{dB}(\mu\text{V}/\text{m})]$$

Reading(QP) : Reading value, Result(QP) : Reading value + Factor value

Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value

Radiated Electric Field Emissions(Above 1 GHz)



Final Result

No.	Frequency (P) [MHz]	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB]	Limit AV [dB]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	1194.693	V 44.3	29.0	1.1	45.4	30.1	74.0	54.0	28.6	23.9	134.0	282.0	
2	1674.819	H 40.9	27.4	3.4	44.3	30.8	74.0	54.0	29.7	23.2	386.0	29.0	
3	1782.025	V 40.8	27.3	3.8	44.6	31.1	74.0	54.0	29.4	22.9	116.0	322.0	
4	1928.330	H 39.6	26.6	4.4	44.0	31.0	74.0	54.0	30.0	23.0	370.0	158.0	
5	2061.395	V 39.6	26.5	5.0	44.6	31.5	74.0	54.0	29.4	22.5	107.0	146.0	
6	2170.140	H 39.8	26.5	5.6	45.4	32.1	74.0	54.0	28.6	21.9	352.0	63.0	
7	3655.653	H 38.5	24.7	11.1	49.6	35.8	74.0	54.0	24.4	18.2	389.0	304.0	
8	3798.506	V 38.8	24.9	12.1	50.9	37.0	74.0	54.0	23.1	17.0	115.0	61.0	
9	4789.774	V 36.4	23.6	18.0	54.4	41.6	74.0	54.0	19.6	12.4	102.0	26.0	
10	4816.851	H 41.8	23.3	18.2	60.0	41.5	74.0	54.0	14.0	12.5	360.0	126.0	
11	4959.660	H 36.1	23.0	19.6	55.7	42.6	74.0	54.0	18.3	11.4	344.0	88.0	
12	4977.435	V 36.4	22.9	19.8	56.2	42.7	74.0	54.0	17.8	11.3	128.0	73.0	
13	2411.000	H -----	-----	6.9	-----	-----	74.0	54.0	-----	-----	100.0	144.0	
14	2479.500	H -----	-----	7.2	-----	-----	74.0	54.0	-----	-----	100.0	278.0	
15	2413.000	V -----	-----	6.9	-----	-----	74.0	54.0	-----	-----	100.0	140.0	
16	2480.500	V -----	-----	7.2	-----	-----	74.0	54.0	-----	-----	100.0	110.0	

* Exclusion Bands

- Fundamental Frequency: 2.4 GHz Band

♦ Calculation

$$\text{Result(PK/CAV)} [\text{dB}(\mu\text{V}/\text{m})] = (\text{Reading(PK/CAV)} [\text{dB}(\mu\text{V})] + \text{c.f} [\text{dB}(1/\text{m})])$$

$$\text{Margin(PK/CAV)} [\text{dB}] = \text{Limit} [\text{dB}(\mu\text{V}/\text{m})] - \text{Result(PK/CAV)} [\text{dB}(\mu\text{V}/\text{m})]$$

Reading(PK/CAV) : Reading value, Result(PK/CAV) : Reading value + Factor value

Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value