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Report No.:
KES-EM-21T0749
Page (1) of (21)

EMC TEST REPORT

Test Report No. : KES-EM-21T0749
Date of Issue : Aug. 27, 2021
Product name : ANESTHESIA INJECTION SYSTEM(CRADLE)
Model/Type No. : AN100-C
Variant Model : -
Applicant : DENTIS CO., LTD.
Applicant Address : 99, Seongseoseo-ro, Dalseo-gu, Daegu, Republic of Korea
Manufacturer : DENTIS CO., LTD.
Manufacturer Address : 99, Seongseoseo-ro, Dalseo-gu, Daegu, Republic of Korea
FCC ID : 2AXRNAN100-C
Date of Receipt : Jul. 12, 2021
Test date : Jul. 13, 2021 ~ Jul. 14, 2021
Test Results : **In Compliance** **Not in Compliance**

Tested by

Min Seong, Kim
EMC Test Engineer

Reviewed by

Dong Hun, Jang
EMC Technical Manager

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Report No.:
KES-EM-21T0749
Page (2) of (21)

REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Aug. 27, 2021	KES-EM-21T0749	Issued

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TABLE OF CONTENTS

1.0	General Product Description.....	4
1.1	Test Voltage & Frequency	5
1.2	Variant Model Differences	5
1.3	Device Modifications	5
1.4	Equipment Under Test.....	5
1.5	Support Equipments	5
1.6	External I/O Cabling	6
1.7	EUT Operating Mode(s)	6
1.8	Configuration.....	7
1.9	Remarks when standards applied	8
1.10	Calibration Details of Equipment Used for Measurement	8
1.11	Test Facility	8
1.12	Measurement Procedure.....	8
1.13	Laboratory Accreditations and Listings	9
2.0	Test Regulations.....	10
2.1	Conducted Emissions at Mains Power Ports	12
2.2	Radiated Electric Field Emissions(Below 1 GHz)	13
2.3	Radiated Electric Field Emissions(Above 1 GHz)	14
APPENDIX A – TEST DATA.....		15
	Conducted Emissions at Mains Power Ports.....	15
	Radiated Electric Field Emissions(Below 1 GHz)	17
	Radiated Electric Field Emissions(Above 1 GHz)	18
APPENDIX B - Test Setup Photos and Configuration.....		19
	Radiated Electric Field Emissions(Below 1 GHz)	20
	Radiated Electric Field Emissions(Above 1 GHz)	21

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Report No.:
KES-EM-21T0749
Page (4) of (21)

1.0 General Product Description

Main Specifications of EUT are:

List	Category	Unit	Specification	etc
ANESTHESIA INJECTION SYSTEM(CRADLE)	Weight	g	140	
	Size	mm	176 X 41.4 X 75.3	
Adapter	Rated input	V	AC 100 - 240	
		Hz	50/60	
	Rated output	V	DC 5	
		A	2.0	
	Weight	g	104	

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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
ANESTHESIA INJECTION SYSTEM(CRADLE)	AN100-C	-	DENTIS CO., LTD.	EUT
ANESTHESIA INJECTION SYSTEM	AN100	-	DENTIS CO., LTD.	-
Adapter	ATM012T-W050V	-	Adapter Technology Co., Ltd.	EUT
Battery	TW 601750 3.7 V	-	-	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
-	-	-	-	-



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Report No.:
KES-EM-21T0749
Page (6) of (21)

1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
ANESTHESIA INJECTION SYSTEM	Charging	ANESTHESIA INJECTION SYSTEM(CRADLE)	Charging	-	-
Adapter (EUT)	DC Jack	_EUT	DC Jack	2.0	U

* Unshielded = U, Shielded = S

1.7 EUT Operating Mode(s)

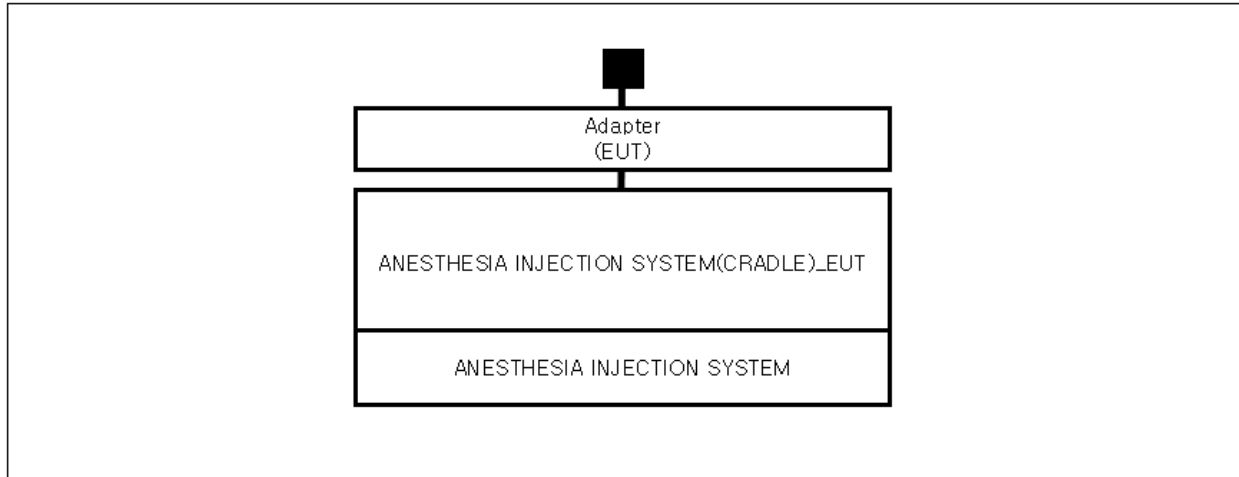
Test mode	operating	Test Voltages
Charging	Check the LED while charging the ANESTHESIA INJECTION SYSTEM with the ANESTHESIA INJECTION SYSTEM(CRADLE).	120 V, 60 Hz

EUT Test operating S/W		
Name	Version	Manufacture Company
-	-	-

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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, Yeosu-si, Gyeonggi-do, 12658, Korea. The sites are constructed in conformance with the requirements of ANSI C63.4:2014 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 1GHz 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 C63.4-2014 7.3.3, 7.3.4, 8.3.1.1, 8.3.1.2, 8.3.2.1, 8.3.2.2

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	 23298-1
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:

EMC – Directive 2014/30/EU

EN 61000-6-3:2011

EN 61000-6-1:2007

EN 61000-6-4:2007 +A1:2011

EN 61000-6-2:2005

EN 55011:2007 +A1:2010

Group 1

Group 2

Class A

Class B

EN 55014-1:2006 +A2:2011

EN 55014-2:1997 +A2:2008

EN 55015:2013

EN 55032:2015

Class A

Class B

EN 55024:2010

EN 50130-4:2011 +A1:2014

EN 61000-3-2:2014

EN 61000-3-3:2013

EN 61326-1:2013



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Report No.:
KES-EM-21T0749
Page (11) of (21)

-
- | | | |
|--|----------------------------------|---|
| <input type="checkbox"/> VCCI V-3 / 2015.04 | <input type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input type="checkbox"/> AS/NZS:2013 | <input type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input checked="" type="checkbox"/> 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 C63.4-2017 | <input type="checkbox"/> Class A | <input checked="" type="checkbox"/> Class B |
| <input type="checkbox"/> IC Regulation ICES-003 : 2016 | | |
| <input type="checkbox"/> CAN/CSA CISPR 22-10 | <input type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input type="checkbox"/> ANSI C63.4-2014 | <input type="checkbox"/> Class A | <input type="checkbox"/> Class B |
| <input type="checkbox"/> RE- Directive 2014/53/EU | | |
| <input type="checkbox"/> EN 301 489-1 V1.9.2 | | |
| <input type="checkbox"/> Equipment for fixed use | | |
| <input type="checkbox"/> Equipment for vehicular use | | |
| <input type="checkbox"/> Equipment for portable use | | |
| <input type="checkbox"/> EN 301 489-3 V1.6.1 | | |
| <input type="checkbox"/> EN 301 489-17 V2.2.1 | | |
| <input type="checkbox"/> EN 60945:2002 | | |

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2.1 Conducted Emissions at Mains Power Ports

Test Date

Jul. 13, 2021

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	01, 15, 2022	1 Year
<input checked="" type="checkbox"/>	LISN	ENV216	R & S	101787	12, 29, 2021	1 Year
<input type="checkbox"/>	LISN	ESH2-Z5	R & S	100450	12, 29, 2021	1 Year
<input checked="" type="checkbox"/>	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 29, 2021	1 Year

Test Conditions

Temperature: (24,7 ± 0,1) °C
Relative Humidity: (47,1 ± 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.



2.2 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Jul. 13, 2021

Test Location

OPEN AREA TEST SITE #2

SEMI ANECHOIC CHAMBER #4

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	04, 01, 2022	1 Year
<input checked="" type="checkbox"/>	AMPLIFIER	SCU 01	R & S	100603	11, 25, 2021	2 Year
<input checked="" type="checkbox"/>	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022	1 Year
<input checked="" type="checkbox"/>	ATTENUATOR	8491A	HP	32173	03, 10, 2022	1 Year

Test Conditions

Temperature: (24,6 ± 0,2) °C

Relative Humidity: (46,7 ± 0,4) % 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

- See Appendix A for test data.

- The fundamental of the EUT was investigated in there orthogonal orientations X, Y and Z.

2.3 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Jul. 14, 2021

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	04, 01, 2022	1 Year
<input checked="" type="checkbox"/>	PREAMPLIFIER	8449B	AGILENT	3008A01742	12, 29, 2021	1 Year
<input type="checkbox"/>	ATTENUATOR	8491A	HP	35496	03, 10, 2022	1 Year
<input checked="" type="checkbox"/>	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 14, 2021	1 Year

Test Conditions

Temperature: (24,9 ± 0,3) °C

Relative Humidity: (47,0 ± 0,5) % R.H.

Frequency Range of Measurement

1 GHz to 18 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.

- The fundamental of the EUT was investigated in there orthogonal orientations X, Y and Z.

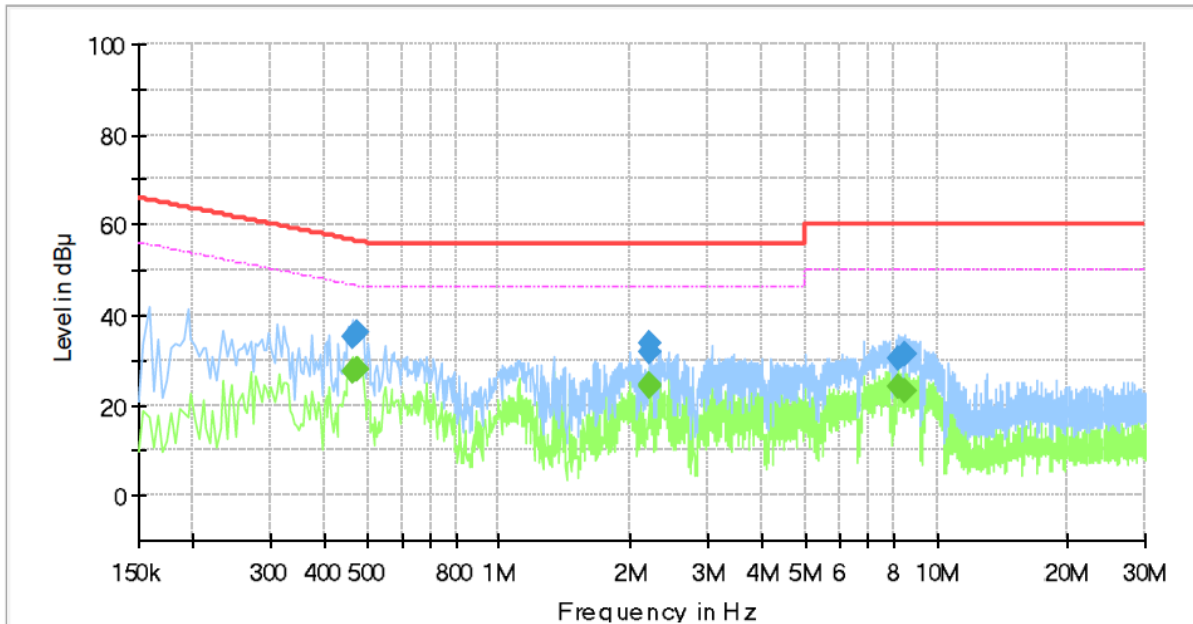
APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Common Information

Test Description:	Conducted Emission
Model No.:	AN100
Phase:	H
Mode:	Charging
Operator Name:	KES



Final Result

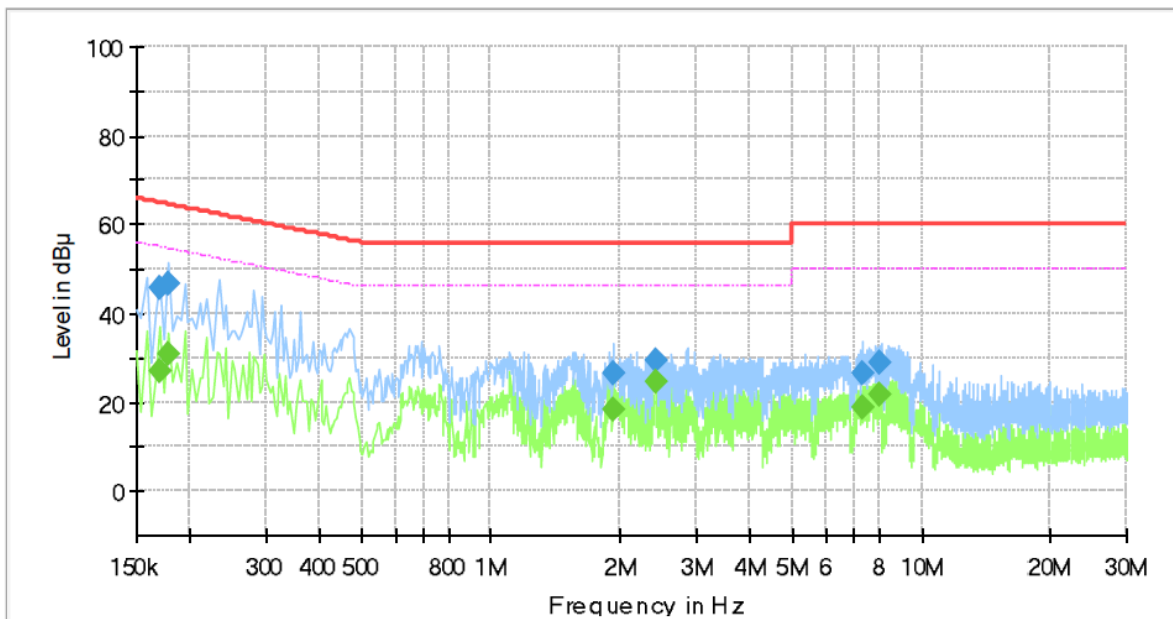
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.462000	---	27.60	46.66	19.06	1000.0	9.000	L1	20.0
0.462000	35.35	---	56.66	21.31	1000.0	9.000	L1	20.0
0.474000	---	28.15	46.44	18.29	1000.0	9.000	L1	20.0
0.474000	36.22	---	56.44	20.22	1000.0	9.000	L1	20.0
2.214000	---	24.48	46.00	21.52	1000.0	9.000	L1	20.6
2.214000	31.64	---	56.00	24.36	1000.0	9.000	L1	20.6
2.218000	---	24.20	46.00	21.80	1000.0	9.000	L1	20.6
2.218000	33.64	---	56.00	22.36	1000.0	9.000	L1	20.6
8.170000	---	23.98	50.00	26.02	1000.0	9.000	L1	20.1
8.170000	30.54	---	60.00	29.46	1000.0	9.000	L1	20.1
8.426000	---	22.97	50.00	27.03	1000.0	9.000	L1	20.2
8.426000	31.20	---	60.00	28.80	1000.0	9.000	L1	20.2

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NEUTRAL LINE

Common Information

Test Description:	Conducted Emission
Model No.:	AN100
Phase:	N
Mode:	Charging
Operator Name:	KES



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.170000	---	26.76	54.96	28.20	1000.0	9.000	N	19.7
0.170000	45.90	---	64.96	19.06	1000.0	9.000	N	19.7
0.178000	---	30.96	54.58	23.62	1000.0	9.000	N	19.7
0.178000	46.77	---	64.58	17.81	1000.0	9.000	N	19.7
1.930000	---	18.54	46.00	27.46	1000.0	9.000	N	20.6
1.930000	26.60	---	56.00	29.40	1000.0	9.000	N	20.6
2.410000	---	24.78	46.00	21.22	1000.0	9.000	N	20.6
2.410000	29.34	---	56.00	26.66	1000.0	9.000	N	20.6
7.314000	---	18.78	50.00	31.22	1000.0	9.000	N	20.0
7.314000	26.32	---	60.00	33.68	1000.0	9.000	N	20.0
8.002000	---	21.50	50.00	28.50	1000.0	9.000	N	20.1
8.002000	28.69	---	60.00	31.31	1000.0	9.000	N	20.1

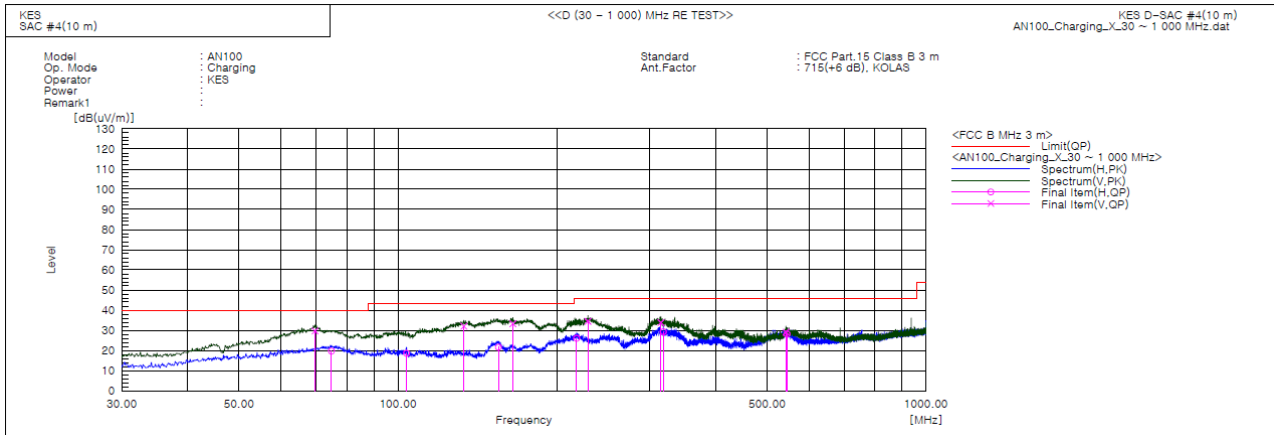
◆ Calculation

QuasiPeak [dBµV] / CAverage [dBµV] = Reading Value [dBµV] + 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)	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	69.649	V	54.9	-25.2	29.7	40.0	10.3	124.0	263.0	
2	74.863	H	47.0	-27.3	19.7	40.0	20.3	375.0	105.0	
3	103.841	H	41.7	-23.1	18.6	43.5	24.9	400.0	272.0	
4	133.305	V	58.0	-26.0	32.0	43.5	11.5	153.0	147.0	
5	155.009	H	47.1	-25.5	21.6	43.5	21.9	338.0	231.0	
6	165.073	V	58.3	-25.0	33.3	43.5	10.2	100.0	181.0	
7	217.938	H	47.1	-21.1	26.0	46.0	20.0	312.0	20.0	
8	228.971	V	55.2	-20.7	34.5	46.0	11.5	100.0	133.0	
9	314.816	V	51.9	-18.1	33.8	46.0	12.2	138.0	226.0	
10	318.090	H	47.2	-17.9	29.3	46.0	16.7	398.0	75.0	
11	542.645	V	41.1	-12.0	29.1	46.0	16.9	127.0	25.0	
12	545.313	H	40.1	-12.0	28.1	46.0	17.9	400.0	102.0	

it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

◆ Calculation – SAC #4(10 m)

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

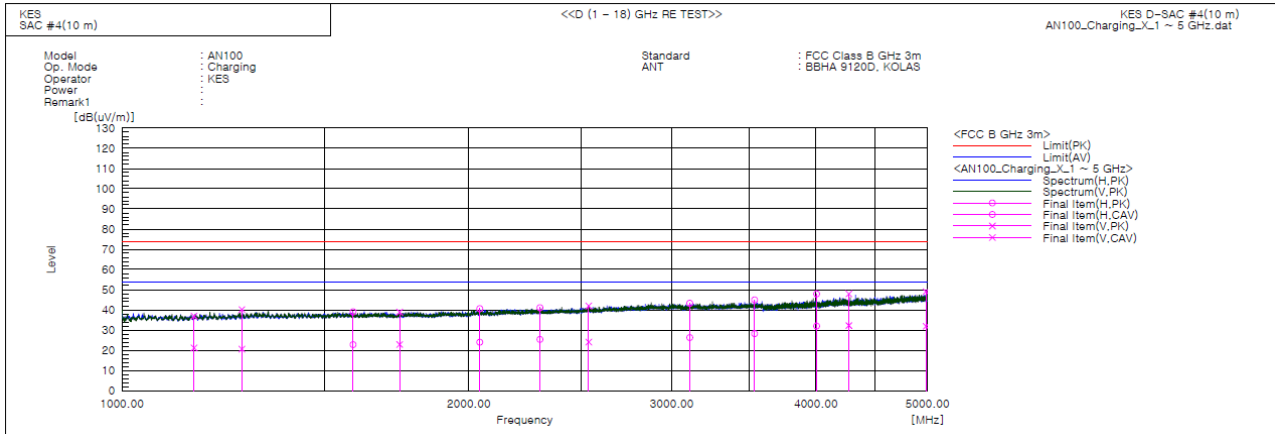
$$\text{Margin(QP)}[\text{dB}] = \text{Limit}[\text{dB}(\mu\text{V}/\text{m})] - \text{Result(QP)} [\text{dB}(\mu\text{V}/\text{m})]$$

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 [MHz]	(P)	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(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	1155.005	V	41.5	25.7	-4.5	37.0	21.2	74.0	54.0	37.0	32.8	147.0	76.0	
2	1270.430	V	44.0	24.4	-3.8	40.2	20.6	74.0	54.0	33.8	33.4	100.0	344.0	
3	1586.745	H	41.2	24.9	-2.1	39.1	22.8	74.0	54.0	34.9	31.2	334.0	53.0	
4	1741.505	V	40.4	24.3	-1.4	39.0	22.9	74.0	54.0	35.0	31.1	141.0	239.0	
5	2043.520	H	40.6	24.0	0.0	40.6	24.0	74.0	54.0	33.4	30.0	358.0	128.0	
6	2305.045	H	39.8	24.1	1.3	41.1	25.4	74.0	54.0	32.9	28.6	400.0	317.0	
7	2540.120	V	39.5	21.6	2.5	42.0	24.1	74.0	54.0	32.0	29.9	100.0	174.0	
8	3109.345	H	38.5	21.5	4.8	43.3	26.3	74.0	54.0	30.7	27.7	368.0	128.0	
9	3539.450	H	39.0	22.2	6.0	45.0	28.2	74.0	54.0	29.0	25.8	344.0	30.0	
10	4006.015	H	39.4	23.5	8.5	47.9	32.0	74.0	54.0	26.1	22.0	396.0	128.0	
11	4272.535	V	38.6	22.9	9.4	48.0	32.3	74.0	54.0	26.0	21.7	108.0	53.0	
12	4982.570	V	36.9	19.7	12.2	49.1	31.9	74.0	54.0	24.9	22.1	100.0	243.0	

- No spurious emission were detected above 6 GHz.

it was determined that X orientation was worst-case orientation; therefore, al final radiated testing was performed with the EUT in X orientation.

◆ Calculation

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

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

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: Marjin value

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