

3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (1) of (28)

EMC TEST REPORT

Test Report No. : KES-EM-22T0792-R1

Date of Issue : Sep. 30, 2022

Product name : SMART INSOLE

Model/Type No. : ST-BTIN003R

Variant Model : -

Applicant : Salted Co., Ltd.

Applicant Address : 6F, 603, Eonju-ro, Gangnam-gu, Seoul, Republic of Korea

Manufacturer : Salted Co., Ltd.

Manufacturer Address : 6F, 603, Eonju-ro, Gangnam-gu, Seoul, Republic of Korea

FCC ID : 2AL6N-ST-BTIN003R

Date of Receipt : Jul. 27, 2022

Test date : Sep. 07, 2022 ~ Sep. 29, 2022

Test Results : 🛛 In Compliance 🔲 Not in Compliance

Tested by

Dae Hyun, Kim

EMC Test Engineer

Reviewed by

Dong-Hun, Jang

EMC Technical Manager



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (2) of (28)

REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Sep. 21, 2022	KES-EM-22T0792	Issued
Sep. 30, 2022	KES-EM-22T0792-R1	Re-issuance of EMC TEST REPORT due to retest (Radiated Electric Field emissions (Above 1 GHz))

This report shall not be reproduced except in full, without the written approval of KES Co., Ltd. This document may be altered or revised by KES Co., Ltd. personnel only, and shall be noted in the revision section of the document. Any alteration of this document not carried out by KES Co., Ltd. will constitute fraud and shall nullify the document.



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (3) of (28)

TABLE OF CONTENTS

1.0	General Product Description	4
$1.\overline{1}$	·	
1.2	· · · · · · · · · · · · · · · · · · ·	
1.3	Device Modifications	5
1.4	Equipment Under Test	5
1.5	Support Equipments	5
1.6		
1.7	EUT Operating Mode(s)	6
1.8	Configuration	7
1.9		
	0 Calibration Details of Equipment Used for Measurement	
	1 Test Facility	
	2 Measurement Procedure	
1.1	3 Laboratory Accreditations and Listings	9
2.0	5	
2.1		
2.2	,	
2.3	Radiated Electric Field Emissions(Above 1 %)	15
APF	PENDIX A - TEST DATA	17
	Conducted Emissions at Mains Power Ports	17
	Radiated Electric Field Emissions(Below 1 에z)	19
	Radiated Electric Field Emissions(Above 1 @)	21
	Test Setup Photos and Configuration	
	Radiated Electric Field Emissions(Below 1 GHz)	
	Radiated Electric Field Emissions (Above 1 @)	



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (4) of (28)

1.0 General Product Description

Main Specifications of EUT are:

Division	Characteristic		
Communication method	Bluetooth	(2 402 ~ 2 480) MHz	
Power	Charge : Wireless Charge Operating : DC 3.7 V (Battery)		
Size	(250 x 88 x 24) mm		
Weight	127 g		
Components	EUT x 1 EA		



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (5) of (28)

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.

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
SMART INSOLE	ST-BTIN003R	-	Salted Co., Ltd.	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Adapter	ETA-U90KWK	-	RFTech Bac Ninh Co.,Ltd	-
Wireless Charger for SMART INSOLE	ST-WPAD001	-	Salted Co., Ltd.	1
SmartPhone	SM-G955	-	Samsung Elctronics Co., Ltd	-



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (6) of (28)

1.6 External I/O Cabling

■ Wireless Charge Mode

Start		EN	Cable Spec.		
Description	I/O Port	Description I/O Port		Length	Shield
SMART INSOLE (EUT)	Wireless Area	Wireless Charger for SMART INSOLE	MART Wireless Area		-
Wireless Charger for SMART INSOLE	USB C Type	Adapter	USB	0.5	U

^{*} Unshielded = U, Shielded = S

■ Operating Mode

Start		END		Cable Spec.	
Description	I/O Port	Description I/O Port		Length	Shield
SMART INSOLE (EUT)	Wireless	SmartPhone	Wireless	-	-

^{*} Unshielded = U, Shielded = S

1.7 EUT Operating Mode(s)

Test mode	operating
Wireless Charge Mode	EUT were placed on Wireless Charger for SMART INSOLE and tested in the maximum operating state.
Operating	Connect EUT and Smartphone wirelessly. The normal operation state was confirmed through the application of Smartphone.

EUT Test operating S/W				
Name	Version	Manufacture Company		
SALTED GOLF	3.00.39	Salted Co., Ltd.		

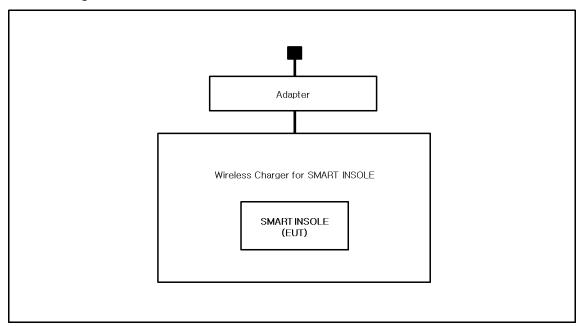


3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (7) of (28)

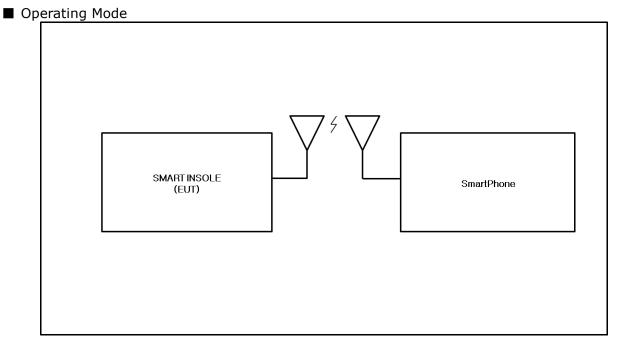
1.8 Configuration

■ AC Main
□ DC Main

■ Wireless Charge Mode



EUT - Wireless Charger for SMART INSOLE : 200 Hz Band



EUT - SmartPhone : Bluetooth 2.4 GHz Band



3701, 40, Simin-daero 365beon-gil,
Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea
Tel: +82-31-425-6200 / Fax: +82-31-424-0450
www.kes.co.kr

Report No.: KES-EM-22T0792-R1 Page (8) of (28)

1.9 Remarks when standards applied

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 $1^{\tiny GHZ}$ at 10 m or 3 m distance and a Peak and Average detector above 1 $^{\tiny GHZ}$ 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



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (9) of (28)

1.13 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
KOREA RRA		EMI (3 m & 10 m Semi-Anechoic 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-Anechoic Chamber , and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	KOLAS MESTING NO. KT489 KT489
USA	FCC	3 m & 10 m Semi-Anechoic Chamber, 10 m Open Area and Conducted test site to perform FCC Part 15/18 measurements.	FC KR0100
Canada ISED JAPAN VCCI Europe TÜV SÜD		3 m & 10 m Semi-Anechoic Chamber and Conducted test site	23298
		Mains Ports Conducted Interference Measurement, Telecommunication Ports Conducted Disturbance Measurement and Radiation 10 meter site, Facility for measuring radiated disturbance above 1	R-20056, C-20036, T-20040, G-20057
		EMI (3 m & 10 m Semi-Anechoic Chamber , 10 m Open Area and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	CARAT 001633 0004



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (10) of (28)

2.0 Test Regulations

The emissions tests were performed according to following regulations:					
□ 47 CFR Part 15, Subpart B					
☐ CISPR 22:2009 +A1:2010	☐ Class A	☐ Class B			
	☐ Class A				



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (11) of (28)

2.1 Conducted Emissions at Mains Power Ports

Test Date

Sep. 08, 2022

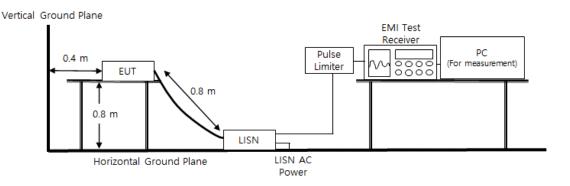
Test Location

Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
\boxtimes	EMI Test S/W	EMC32	R & S	9.12.00	-
\boxtimes	EMI TEST RECEIVER	ESR3	R & S	101783	12, 28, 2022
\boxtimes	LISN	ENV216	R & S	101787	12, 27, 2022
	LISN	ESH2-Z5	R & S	100450	12, 27, 2022
\boxtimes	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022

Diagram of test setup





3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (12) of (28)

Test Conditions

Temperature: $(23,5 \pm 0,1) ^{\circ}$ Relative Humidity: $(45,8 \pm 0,0) ^{\circ}$ 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.



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (13) of (28)

2.2 Radiated Electric Field Emissions (Below 1 %)

Test Date

Sep. 07, 2022

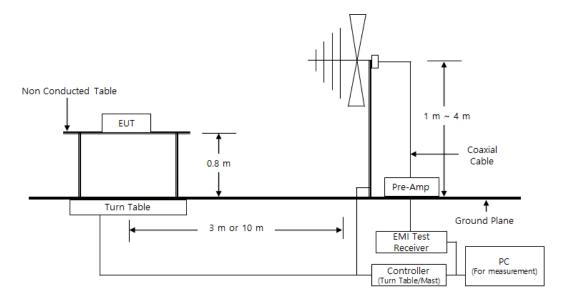
Test Location

SEMI ANECHOIC CHAMBER #4(10 m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
	EMI TEST RECEIVER	ESU26	R & S	100551	03, 31, 2023
\boxtimes	AMPLIFIER	SCU 01	R & S	100603	11, 22, 2022
\boxtimes	TRILOG- BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022
\boxtimes	ATTENUATOR	8491A	НР	32173	03, 08, 2023

Diagram of test setup





3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (14) of (28)

Test Conditions

Temperature: $(23.8 \pm 0.1) ^{\circ}$ Relative Humidity: $(46.9 \pm 0.1) ^{\circ}$ R.H.

Frequency Range of Measurement

30 MHz to 1 GHz

Instrument Settings

IF Band Width: 120 kHz

Test Results

The requirements are:

☐ NOT PASS

NOT APPLICABLE

Remarks

See Appendix A for test data.





3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (15) of (28)

2.3 Radiated Electric Field Emissions (Above 1 @lz)

Test Date

Sep. 29, 2022

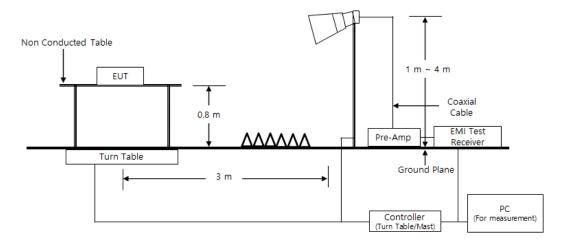
Test Location

SEMI ANECHOIC CHAMBER #4(10 m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
\boxtimes	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
\boxtimes	EMI TEST RECEIVER	ESU26	R & S	100551	03, 31, 2023
\boxtimes	PREAMPLIFIER	8449B	AGILENT	3008A01742	12, 27, 2022
	ATTENUATOR	8491A	НР	35496	03, 08, 2023
\boxtimes	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	12, 16, 2022

Diagram of test setup





3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (16) of (28)

Test Conditions

Temperature: $(23,1 \pm 0,1)$ °C Relative Humidity: $(49,9 \pm 0,0)$ % R.H.

Frequency Range of Measurement

1 GHz to 5 GHz

Instrument Settings

IF Band Width: 1 MHz

Test Results

The requirements are:

 $oxed{oxed}$ pass

☐ NOT PASS

NOT APPLICABLE

Remarks

See Appendix A for test data.



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (17) of (28)

APPENDIX A - TEST DATA

Conducted Emissions at Mains Power Ports

■ Wireless Charge Mode

HOT LINE

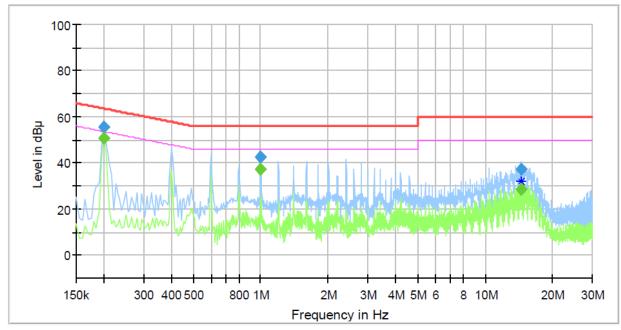
Common Information

Test Description: Conducted Emission Model No.: ST-BTIN003R

Phase:

Mode: Wireless Charge

Operator Name: KES



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.200000		50.83	53.61	2.78	1000.0	9.000	L1	19.4
0.200000	55.61		63.61	8.00	1000.0	9.000	L1	19.4
1.000000		37.27	46.00	8.73	1000.0	9.000	L1	20.0
1.000000	42.60		56.00	13.40	1000.0	9.000	L1	20.0
14.400000		28.75	50.00	21.25	1000.0	9.000	L1	19.9
14.400000	37.26		60.00	22.74	1000.0	9.000	L1	19.9



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (18) of (28)

NEUTRAL LINE

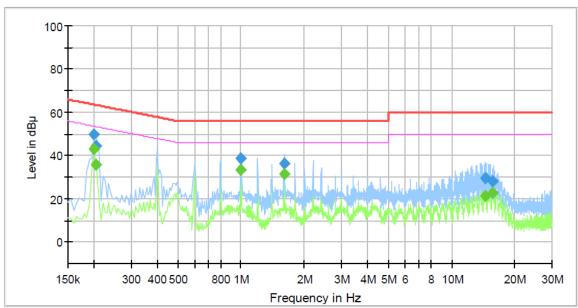
Common Information

Test Description: Conducted Emission Model No.: ST-BTIN003R

Phase:

Mode: Wireless Charge

Operator Name: KES



Final_Result

Frequency	QuasiPeak	CAverage	Limit	Margin	Meas.	Bandwidth	Line	Corr.
(MHz)	(dBμV)	(dBμV)	(dBµV)	(d B)	Time	(kHz)		(dB)
					(ms)			
0.200000		43.17	53.61	10.44	1000.0	9.000	N	19.4
0.200000	49.70		63.61	13.91	1000.0	9.000	N	19.4
0.205000		35.82	53.41	17.59	1000.0	9.000	N	19.4
0.205000	44.37		63.41	19.04	1000.0	9.000	N	19.4
1.000000		33.51	46.00	12.49	1000.0	9.000	N	20.0
1.000000	38.82		56.00	17.18	1000.0	9.000	N	20.0
1.600000		31.29	46.00	14.71	1000.0	9.000	N	20.2
1.600000	36.41		56.00	19.59	1000.0	9.000	N	20.2
14.490000		21.48	50.00	28.52	1000.0	9.000	N	19.9
14.490000	29.46		60.00	30.54	1000.0	9.000	N	19.9
15.730000		22.68	50.00	27.32	1000.0	9.000	N	19.9
15.730000	27.92		60.00	32.08	1000.0	9.000	N	19.9

♦ Calculation

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

QuasiPeak / Caverage : The Final Value Reading Value : Not shown in the table.

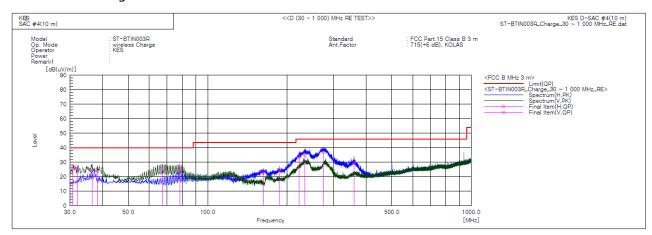
Corr.: Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (19) of (28)

Radiated Electric Field Emissions(Below 1 6 ₪)

■ Wireless Charge Mode



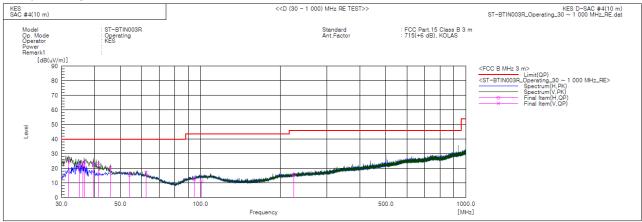
Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	30.849	٧	51.1	-25.3	25.8	40.0	14.2	100.0	208.0	
2	31.940	V	50.2	-25.1	25.1	40.0	14.9	123.0	208.0	
3	36.426	٧	48.9	-24.5	24.4	40.0	15.6	100.0	215.0	
4	38.245	٧	46.9	-23.6	23.3	40.0	16.7	132.0	189.0	
5	67.466	V	48.8	-24.3	24.5	40.0	15.5	145.0	278.0	
6	78.379	V	54.0	-27.9	26.1	40.0	13.9	159.0	86.0	
7	162.769	Η	48.7	-25.1	23.6	43.5	19.9	400.0	5.0	
8	187.504	Н	47.7	-23.1	24.6	43.5	18.9	299.0	26.0	
9	222.424	Η	54.6	-20.9	33.7	46.0	12.3	346.0	27.0	
10	234.185	Н	55.3	-20.5	34.8	46.0	11.2	350.0	23.0	
11	273.955	Н	56.2	-19.5	36.7	46.0	9.3	100.0	12.0	
12	359.558	Η	45.3	-15.9	29.4	46.0	16.6	400.0	335.0	



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (20) of (28)

■ Operating Mode



Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	31.819	٧	50.9	-25.1	25.8	40.0	14.2	100.0	197.0	
2	35.093	Н	46.8	-24.8	22.0	40.0	18.0	400.0	29.0	
3	36.184	Н	47.3	-24.6	22.7	40.0	17.3	400.0	26.0	
4	36.548	V	48.6	-24.4	24.2	40.0	15.8	100.0	275.0	
5	39.579	V	46.2	-22.9	23.3	40.0	16.7	127.0	26.0	
6	41.398	V	45.6	-22.2	23.4	40.0	16.6	100.0	26.0	
7	45.884	V	42.0	-21.5	20.5	40.0	19.5	132.0	201.0	
8	54.129	Η	36.9	-21.5	15.4	40.0	24.6	326.0	126.0	
9	62.495	V	39.8	-22.8	17.0	40.0	23.0	159.0	81.0	
10	94.869	Н	36.3	-23.8	12.5	43.5	31.0	330.0	108.0	
11	101.174	Η	34.1	-22.8	11.3	43.5	32.2	370.0	253.0	
12	225.091	Η	36.6	-20.8	15.8	46.0	30.2	400.0	201.0	

^{*} Operation Mode Orientation Worst Case : X

♦ Calculation - SAC #4(10 m)

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

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

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

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

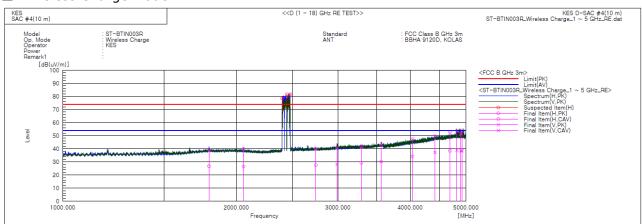
Marjin value



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (21) of (28)

Radiated Electric Field Emissions(Above 1 612)

■ Wireless Charge Mode



	Resul	

No.	Frequency	(P)	Reading PK	Reading CAV	c.f	Result PK	Result CAV	Limit PK	Limit AV	Margin PK	Margin CAV	Height	Angle	Remark
	[MHz]		[dB(uV)]	[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[dB]	[cm]	[deg]	
1	2988.125	٧	37.7	24.8	3.3	41.0	28.1	74.0	54.0	33.0	25.9	100.0	304.0	
2	3564.339	٧	37.4	23.9	6.3	43.7	30.2	74.0	54.0	30.3	23.8	122.0	205.0	
3	4419.935	٧	36.6	23.9	13.3	49.9	37.2	74.0	54.0	24.1	16.8	139.0	315.0	
4	4824.356	٧	38.4	23.4	15.5	53.9	38.9	74.0	54.0	20.1	15.1	105.0	181.0	
5	4897.766	V	35.7	22.8	15.6	51.3	38.4	74.0	54.0	22.7	15.6	100.0	331.0	
6	4925.332	٧	38.0	22.8	15.7	53.7	38.5	74.0	54.0	20.3	15.5	100.0	185.0	
7	1793.429	Н	40.0	27.3	-0.6	39.4	26.7	74.0	54.0	34.6	27.3	400.0	260.0	
8	2057.865	Н	40.1	26.7	-0.2	39.9	26.5	74.0	54.0	34.1	27.5	400.0	5.0	
9	2747.122	Н	38.2	25.4	2.1	40.3	27.5	74.0	54.0	33.7	26.5	374.0	19.0	
10	3295.250	Н	37.4	24.7	4.6	42.0	29.3	74.0	54.0	32.0	24.7	340.0	171.0	
11	4038.936	Н	37.2	24.0	10.2	47.4	34.2	74.0	54.0	26.6	19.8	400.0	11.0	
12	4690.004	Н	38.3	23.8	14.7	53.0	38.5	74.0	54.0	21.0	15.5	400.0	164.0	
13	2402.500	Н			0.5			74.0	54.0			100.0	356.0	
14	2446.000	Н			0.8			74.0	54.0			100.0	346.0	
15	2480.000	Н			0.9			74.0	54.0			100.0	353.0	

* Mode Exclusion bands

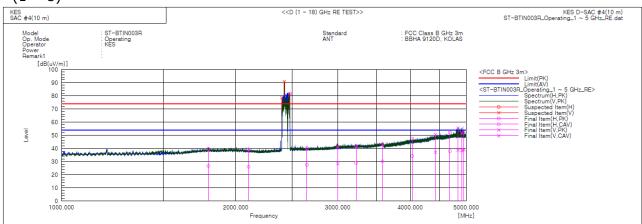
- Fundamental Frequency: 2.4 GHz



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (22) of (28)

■ Operating Mode

- (1 ~ 5) GHz



Final Result

No.	Frequency	(P)	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin		Height	Angle	Remark
			PK	CAV		PK .	CAV	PK	AV	_PK_	CAV			
	[MHz]		[dB(uV)]	[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[dB]	[cm]	[deg]	
1	1793.294	Н	40.2	27.3	-0.6	39.6	26.7	74.0	54.0	34.4	27.3	400.0	264.0	
2	2104.035	Н	39.5	26.4	-0.3	39.2	26.1	74.0	54.0	34.8	27.9	340.0	12.0	
3	2653.742	Н	38.6	25.8	1.7	40.3	27.5	74.0	54.0	33.7	26.5	380.0	156.0	
4	2999.465	V	37.9	25.0	3.4	41.3	28.4	74.0	54.0	32.7	25.6	100.0	305.0	
5	3227.593	Ĥ	37.7	24.6	4.4	42.1	29.0	74.0	54.0	31.9	25.0	400.0	2.0	
6	3582.526	V	36.5	23.8	6.5	43.0	30.3	74.0	54.0	31.0	23.7	100.0	5.0	
7	4033.160	Ĥ	37.3	24.0	10.2	47.5	34.2	74.0	54.0	26.5	19.8	400.0	10.0	
8	4424.199	V	37.2	23.8	13.3	50.5	37.1	74.0	54.0	23.5	16.9	137.0	116.0	
g	4685.994	Ĥ	37.3	23.3	14.7	52.0	38.0	74.0	54.0	22.0	16.0	400.0	18.0	
10	4840.208	v	40.0	23.2	15.5	55.5	38.7	74.0	54.0	18.5	15.3	100.0	186.0	
11	4913.732	Ň	36.2	22.8	15.6	51.8	38.4	74.0	54.0	22.2	15.6	165.0	338.0	
12	4951.098	v	37.5	23.3	15.7	53.2	39.0	74.0	54.0	20.8	15.0	100.0	342.0	
13	2402.000	V	07.0	20.0	0.5	50.2	09.0	74.0	54.0		15.0	100.0	294.0	
- 17		V												
14	2426.000	V			0.7			74.0	54.0			100.0	164.0	
15	2480.000	H			0.9			74.0	54.0			100.0	358.0	

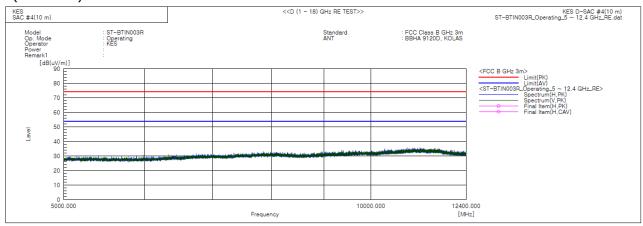
* Mode Exclusion bands

- Fundamental Frequency: 2.4 GHz



3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea Tel: +82-31-425-6200 / Fax: +82-31-424-0450 www.kes.co.kr Report No.: KES-EM-22T0792-R1 Page (23) of (28)

- (5 ~ 12.4) GHz



* No Spurious emission were dectected above 5 ^{GHz}.

♦ Calculation

Result(PK/CAV) [dB(μ V/m)] = (Reading(PK/CAV)[dB(μ V)] + c.f[dB(1/m)]

Margin(PK/CAV)[dB] = Limit[dB(μ V/m)] - Result(PK/CAV) [dB(μ 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: Margin value