G4B(www.g4b.go.kr)진위확인코드 : YnSFsrX3VQc=



KESK

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EMC TEST REPORT

Test Report No.	:	KES-EM-23T0851	
Date of Issue	:	Sep. 22, 2023	
Product name	:	Hand grip strength dynamometer	
Model/Type No.	:	IB-HGSm	
Variant Model	:	IB-HGS	
Applicant	:	InBody Co., Ltd.	
Applicant Address	:	InBody Bldg., 625, Eonju-ro, Gangn	am-gu, Seoul 06106 KOREA
Manufacturer	:	InBody Co., Ltd.	
Manufacturer Address	:	InBody Bldg., 625, Eonju-ro, Gangn	am-gu, Seoul 06106 KOREA
FCC ID	:	F6OIBHGSM	
Date of Receipt	:	Jul. 27, 2023	
Test date	:	Aug. 01, 2023	
Test Results	:	⊠ In Compliance	☐ Not in Compliance

Tested by

75

Reviewed by

0 20%

Dae Hyun, Kim EMC Test Engineer Dong II, Lee EMC Technical Manager

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REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Sep. 22, 2023	KES-EM-23T0851	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Division	Characteristic
Frequency	Bluetooth
Power	DC 3 V (AA Battery x 2 EA)
Components	EUT x 1 EA

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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.

Battery (AA Battery x 2 EA)

1.2 Variant Model Differences

products for marketing

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
Hand grip strength dynamometer	IB-HGSm	-	InBody Co., Ltd.	EUT

1.5 Support Equipments

Dese	cription	Model Number	Serial Number	Manufacturer	Remarks
Sma	rtPhone	SM-G955N	-	Samsung Electronics Co., Ltd.	-

1.6 External I/O Cabling

Sta	rt	ENI	Cable Spec.		
Description	I/O Port	Description	I/O Port	Length	Shield
Hand grip strength dynamometer (EUT)	Wireless	SmartPhone	Wireless	-	-

* Unshielded = U, Shielded = S

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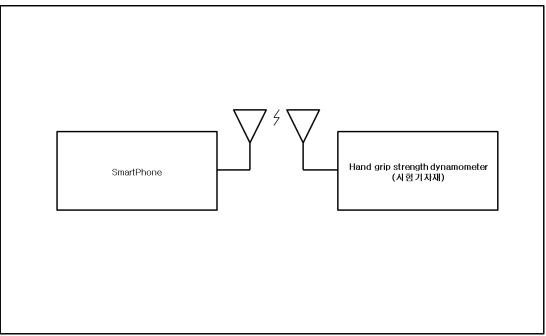
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1.7 EUT Operating Mode(s)

Test mode	operating
Operating	Tested while checking the normal operation status on the application (BLE Scanner) of the SmartPhone.

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

1.8 Configuration



EUT – Smartphone : Bluetooth

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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^{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 C63.4-2014 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 **Scope of Accreditation** Agency Country Logo EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) KOREA RRA EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) KR0100 EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) International KOLAS EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions) 3 m & 10 m Semi-Anechoic Chamber Conducted USA FCC test site to perform FCC Part 15/18 measurements. 3 m & 10 m Semi-Anechoic Chamber ISED Canada and Conducted test site 23298 (G EMI (3 m & 10 m Semi-Anechoic Chamber and VCCI JAPAN conducted test site) C-20136, T-20137, R-20181, G-20176 EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) TÜV SÜD Europe EMS (ESD, RS, EFT/Burst, Surge, CS, SUD Magnetic, Dips and interruptions) CARAT 001633 0004

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🛛 Class B



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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

🖂 ANSI C63.4a-2017 🛛 🗌 Class A

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2.1 Conducted Emissions at Mains Power Ports

Test Date N/A

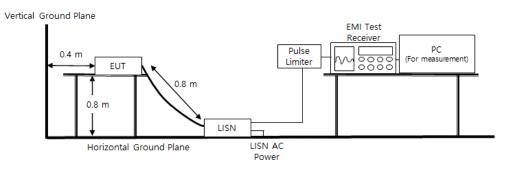
Test Location

Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
	EMI Test S/W	EMC32	R & S	9.12.00	-	-
	EMI TEST RECEIVER	ESR3	R & S	101783	11, 11, 2023	1 Year
	LISN	ENV216	R & S	101787	11, 10, 2023	1 Year
	LISN	ESH2-Z5	R & S	100450	11, 10, 2023	1 Year
	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 10, 2023	1 Year

Diagram of test setup



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Test Conditions

Temperature: Relative Humidity: ℃ % R.H.

Frequency Range of Measurement 150 KHz to 30 KHz

Instrument Settings IF Band Width: 9 kHz

Test Results

The requirements are:

□ PASS
 □ NOT PASS
 ⊠ NOT APPLICABLE

Remarks

The EUT applied portable Use equipment.

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2.2 Radiated Electric Field Emissions(Below 1 GHz)

Test Date

Aug. 01, 2023

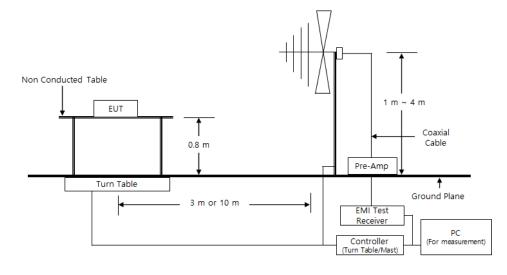
Test Location

SEMI ANECHOIC CHAMBER #4(10m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
\square	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-	-
\square	EMI TEST RECEIVER	ESU26	R & S	100551	03, 31, 2023	1 Year
\boxtimes	AMPLIFIER	SCU 01	R & S	100603	11, 10, 2023	1 Year
	TRILOG- BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	11, 17, 2024	2 Year
\boxtimes	ATTENUATOR	8491A	HP	32173	03, 03, 2024	1 Year

Diagram of test setup



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Test Conditions

 Temperature:
 $(24,9 \pm 0,1)$ °C

 Relative Humidity:
 $(47,1 \pm 0,0)$ % 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 See Appendix A for test data.

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2.3 Radiated Electric Field Emissions(Above 1 GHz)

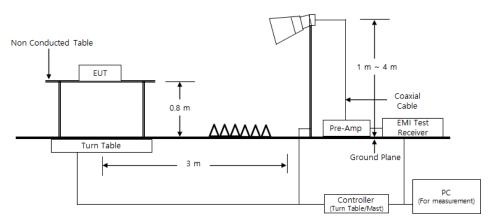
Test Date Aug. 01, 2023

Test Location SEMI ANECHOIC CHAMBER #5

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due	calibration interval
\square	EMI Test S/W	ES10/RE	TOYO Corporation	2022.01.000	-	-
\boxtimes	EMI TEST RECEIVER	ESU26	Rohde & Schwarz	100552	03, 21, 2024	1 Year
\boxtimes	HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1802	11, 08, 2023	1 Year
\boxtimes	PREAMPLIFIER	8449B	HP	3008A00538	05, 31, 2024	1 Year
	ATTENUATOR	8491B	HP	23094	03, 21, 2024	1 Year

Diagram of test setup



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Test Conditions

Temperature: Relative Humidity: (24,9 ± 0,1) °C (45,9 ± 0,1) % R.H.

Frequency Range of Measurement

1 GHz to 5 GHz

Instrument Settings

Test Results The requirements are:



Remarks See Appendix A for test data.

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APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports HOT LINE

N/A

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NEUTRAL LINE

N/A

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))

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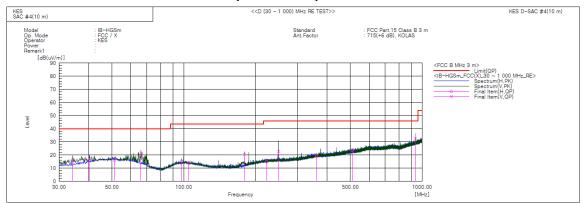
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Radiated Electric Field Emissions(Below 1 GHz)



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	34.244	V	41.1	-24.7	16.4	40.0	23.6	100.0	349.0	
2	40.306	V	39.3	-22.5	16.8	40.0	23.2	135.0	23.0	
3	51.219	Н	37.0	-20.9	16.1	40.0	23.9	260.0	290.0	
4	66.133	V	45.0	-23.6	21.4	40.0	18.6	100.0	211.0	
5	97.779	Н	38.2	-22.8	15.4	43.5	28.1	380.0	18.0	
6	105.054	Н	36.3	-22.8	13.5	43.5	30.0	200.0	343.0	
7	179.986	V	44.5	-24.0	20.5	43.5	23.0	112.0	144.0	
8	222.666	Н	35.2	-20.4	14.8	46.0	31.2	255.0	230.0	
9	249.948	V	42.5	-19.8	22.7	46.0	23.3	105.0	166.0	
10	361.013	Н	34.9	-15.6	19.3	46.0	26.7	290.0	324.0	
11	509.180	Н	35.4	-11.8	23.6	46.0	22.4	365.0	225.0	
12	937.556	V	37.9	-5.1	32.8	46.0	13.2	268.0	237.0	

* The Fundamental of the EUT was investigated in three orthogonal orientations X, Y, Z It was determed that X orientation was worst-case orientation; therefore, al tinal radiated testing was performed with the EUT in X orientation.

◆ Calculation – SAC #4(10 m)
 Result(QP) [dB(𝒫/m)] = (Reading(QP)[dB(𝒫/)] + c.f[dB(1/m)]
 Margin(QP)[dB] = Limit[dB(𝒫/m)] - Result(QP) [dB(𝒫/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

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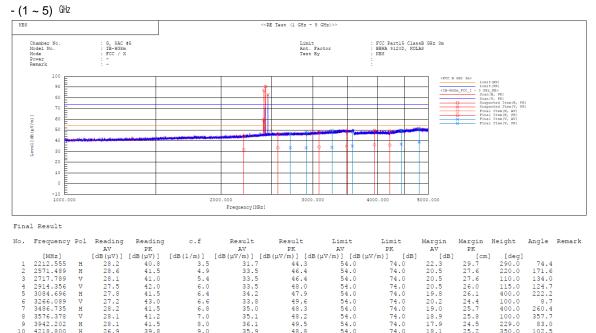
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100.0
229.0
350.0

400.0 400.0 100.0

Radiated Electric Field Emissions(Above 1 6Hz)



3576.378	v	28.1	41.2	7.0	35.1	48.2	54.0	74.0	18.9	25.8
3942.202	н	28.1	41.5	8.0	36.1	49.5	54.0	74.0	17.9	24.5
4218.800	Н	26.9	39.8	9.0	35.9	48.8	54.0	74.0	18.1	25.2
4439.817	v	26.5	39.4	10.2	36.7	49.6	54.0	74.0	17.3	24.4
4803.770	v	27.2	40.2	11.5	38.7	51.7	54.0	74.0	15.3	22.3
2412.000	Н			4.3						
2419.600	н			4.4						
2435.600	Н			4.4						
2461.600	v			4.5						

* Exclusion bands

- Fundamental Frequency: (2 402 ~ 2 480) GHz

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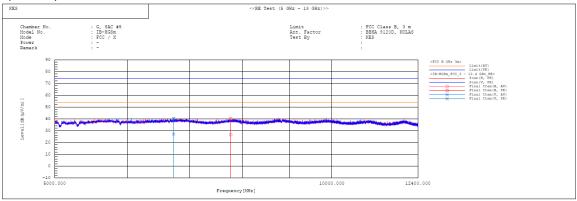
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- (5 ~ 12.4) GHz



- PK

F	Frequency (MHz)	Reading PK (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
6	734,201	40,300	Н	1,000	34,920	7,560	34,800	47,980	74,000	26,020
7	767,525	40,100	V	1,000	36,460	8,480	33,720	51,320	74,000	22,680

- CISPR AV

ſ	F	requency (MHz)	Reading CISPR AV (dBuV)	Polarization	Height (m)	ANT Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Result (dBu∀/m)	Limit (dBu∨/m)	Margin (dB)
	6	734,200	27,100	Н	1,000	34,920	7,560	34,800	34,780	54,000	19,220
	7	767,525	26,700	V	1,000	36,460	8,480	33,720	37,920	54,000	16,080

* No Spurious emission were dectected above 5 GHz.

Calculation

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

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

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: Margin value

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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-23T0851 Page (21) of (23)

APPENDIX B - Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports

N/A

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