

3701, 40, Simin-daero 365beon-gil,
Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea
Tel: +82-31-425-6200 / Fax: +82-31-424-0450
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Report No.: KES-EM-22T0892 Page (1) of (23)

EMC TEST REPORT

Test Report No. : KES-EM-22T0892

Date of Issue : Nov. 04, 2022

Product name : InBirdie TEMPO Plus

Model/Type No. : InBirdie TEMPO Plus

Variant Mode : -

Applicant : DMBH Co., Ltd.

Applicant Address : #401-603, Bucheon Techno-park, 655, Pyeongcheon-ro,

Wonmi-gu, Bucheon-si, Gyeonggi-do, Korea

Manufacturer : DMBH Co., Ltd.

Manufacturer Address : #401-603, Bucheon Techno-park, 655, Pyeongcheon-ro,

Wonmi-gu, Bucheon-si, Gyeonggi-do, Korea

FCC ID : 2A3CB-INBIRDIETP3

Date of Receipt : Oct. 26, 2022

Test date : Oct. 29, 2022

Test Results : 🛛 In Compliance 🔲 Not in Compliance

Tested by Reviewed by

Seon Ho, Choi Dong Hun, Jang EMC Test Engineer EMC Technical Manager



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REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Nov. 04, 2022	KES-EM-22T0892	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Division	Characteristic		
Communication method	Bluetooth (2 402 ~ 2 480) MHz		
Power	DC 5 V (USB type C)		
6:	Product Size(WxHxD in)	13 * 12 * 1.5	
Size	Mat Size(WxL in) 12 * 75		
Product Weight	4 989 g		
Port	USB C Type x 1 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.

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
InBirdie TEMPO Plus	InBirdie TEMPO Plus	-	DMBH Co., Ltd.	EUT

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Adapter	-	-	-	-
SmartPhone	-	-	-	-

1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
InBirdie TEMPO Plus (EUT)	USB C Type	Adapter	USB	1.2	U
	Wireless	SmartPhone	Wireless	-	-

^{*} Unshielded = U, Shielded = S



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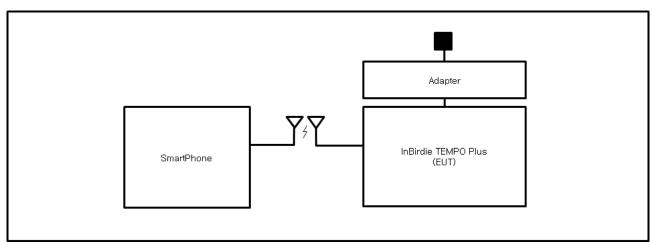
1.7 EUT Operating Mode(s)

Test mode	operating
Oprate	After connecting the power to the product, check the normal operation through the application on the smartphone.

EUT Test operating S/W			
Name	Version	Manufacture Company	
InBirdie Game	3.092	DMBH Co., Ltd	

1.8 Configuration

■ AC Main
□ DC Main



EUT - SmartPhone : Bluetooth 2.4 GHz Band



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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 kHz. 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 C63.4-2014 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

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)	TESTING NO. KTAB9 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.	FC 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	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 2			
2.0	i est	Keau	lations

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



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2.1 Conducted Emissions at Mains Power Ports

Test Date

Oct. 29, 2022

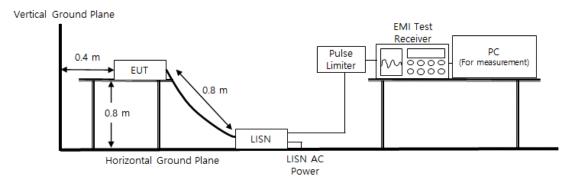
Test Location

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	-	-
\boxtimes	EMI TEST RECEIVER	ESR3	R & S	101783	12, 28, 2022	1 Year
\boxtimes	LISN	ENV216	R & S	101787	12, 27, 2022	1 Year
	LISN	ESH2-Z5	R & S	100450	12, 27, 2022	1 Year
\boxtimes	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022	1 Year

Diagram of test setup





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Test Conditions

Temperature: $(22,8 \pm 0,2) ^{\circ}$ Relative Humidity: $(47,2 \pm 0,3) ^{\circ}$ 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.



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2.2 Radiated Electric Field Emissions (Below 1 %)

Test Date

Oct. 29, 2022

Test Location

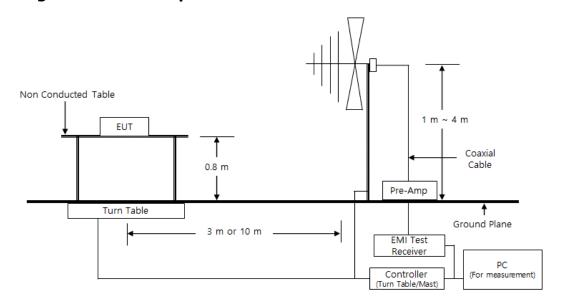
OPEN AREA TEST SITE #2

SEMI ANECHOIC CHAMBER #4(10m)

Test Equipment

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

Diagram of test setup





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Test Conditions

Temperature: $(22,2\pm0,3)$ °C Relative Humidity: $(47,8\pm0,3)$ % R.H.

Frequency Range of Measurement

30 MHz to 1 GHz

Instrument Settings

IF Band Width: 120 kHz

Test Results

The requirements are:

\boxtimes	PASS

☐ NOT PASS

■ NOT APPLICABLE

Remarks

See Appendix A for test data.



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2.3 Radiated Electric Field Emissions (Above 1 @lz)

Test Date

Oct. 29, 2022

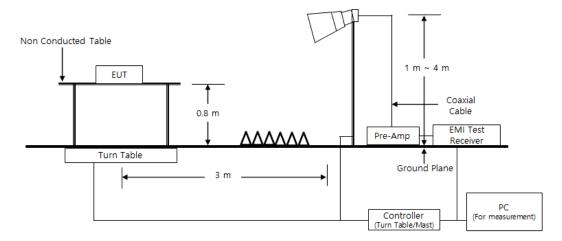
Test Location

SEMI ANECHOIC CHAMBER #4(10 m)

Test Equipment

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

Diagram of test setup





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Test Conditions

Temperature: $(22,2 \pm 0,3)$ °C Relative Humidity: $(47,8 \pm 0,4)$ % R.H.

Frequency Range of Measurement

1 GHz to 5 GHz

Instrument Settings

IF Band Width: 1 MHz

Test Results

The requirements are:

☐ 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

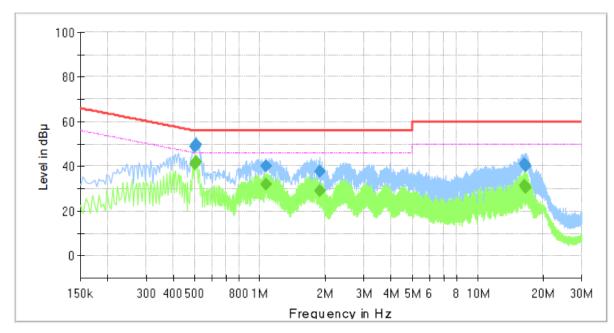
Common Information

Test Description: Conducted Emission Model No.: InBirdie TEMPO Plus

Phase:

Mode:

Operator Name: KES



Final_Result

Frequency	QuasiPeak	CAverage	Limit	Margin	Meas.	Bandwidth	Line	Corr.
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)	Time	(kHz)		(dB)
	` ' '	` ' '	` '		(ms)			
0.502000		41.27	46.00	4.73	1000.0	9.000	L1	19.7
0.502000	49.06		56.00	6.94	1000.0	9.000	L1	19.7
0.510000		41.96	46.00	4.04	1000.0	9.000	L1	19.7
0.510000	49.90		56.00	6.10	1000.0	9.000	L1	19.7
1.062000		32.08	46.00	13.92	1000.0	9.000	L1	20.1
1.062000	39.96		56.00	16.04	1000.0	9.000	L1	20.1
1.882000		29.18	46.00	16.82	1000.0	9.000	L1	20.3
1.882000	37.97		56.00	18.03	1000.0	9.000	L1	20.3
16.330000		31.45	50.00	18.55	1000.0	9.000	L1	19.9
16.330000	40.99		60.00	19.01	1000.0	9.000	L1	19.9
16.550000		30.55	50.00	19.45	1000.0	9.000	L1	19.9
16.550000	40.37		60.00	19.63	1000.0	9.000	L1	19.9



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NEUTRAL LINE

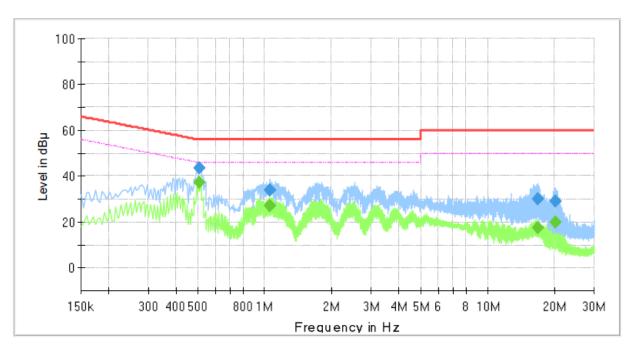
Common Information

Test Description: Conducted Emission Model No.: InBirdie TEMPO Plus

Phase: N

Mode:

Operator Name: KES



Final_Result

Frequency	QuasiPeak	CAverage	Limit	Margin	Meas.	Bandwidth	Line	Corr.
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)	Time (ms)	(kHz)		(dB)
0.506000		37.24	46.00	8.76	1000.0	9.000	N	19.7
0.506000	43.68		56.00	12.32	1000.0	9.000	N	19.7
1.054000		27.12	46.00	18.88	1000.0	9.000	N	20.1
1.054000	33.75		56.00	22.25	1000.0	9.000	N	20.1
1.058000		27.11	46.00	18.89	1000.0	9.000	N	20.1
1.058000	33.76		56.00	22.24	1000.0	9.000	N	20.1
16.702000		17.73	50.00	32.27	1000.0	9.000	N	19.9
16.702000	30.16		60.00	29.84	1000.0	9.000	N	19.9
20.090000		20.06	50.00	29.94	1000.0	9.000	N	20.2
20.090000	29.17		60.00	30.83	1000.0	9.000	N	20.2

♦ Calculation

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

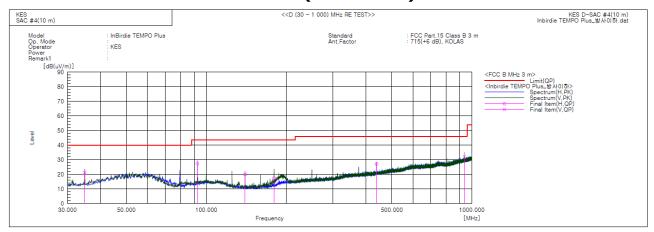
QuasiPeak / CAverage : The Final Value Reading Value : Not shown in the table.

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



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Radiated Electric Field Emissions(Below 1 6 ₪)



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	34.850	V	46.0	-24.8	21.2	40.0	18.8	100.0	5.0	
2	92.565	Н	51.4	-24.1	27.3	43.5	16.2	306.0	42.0	
3	139.974	V	45.9	-25.9	20.0	43.5	23.5	101.0	1.0	
4	179.986	Н	41.5	-24.1	17.4	43.5	26.1	400.0	119.0	
5	437.521	Н	41.4	-14.3	27.1	46.0	18.9	395.0	359.0	
6	937.556	٧	37.2	-5.1	32.1	46.0	13.9	185.0	167.0	

♦ 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(M/m)] - Result(QP)[dB(M/m)]

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

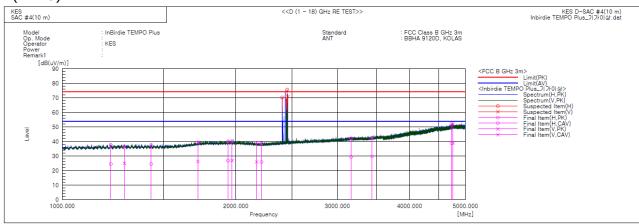
Limit(QP): Limit value, c.f: (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value



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Radiated Electric Field Emissions(Above 1 础)

- (1 ~ 5) GHz



Final Result

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	1214.156	Н	42.7	29.6	-5.0	37.7	24.6	74.0	54.0	36.3	29.4	302.0	100.0	
2	1281.696	V	41.2	29.7	-4.7	36.5	25.0	74.0	54.0	37.5	29.0	195.0	157.0	
3	1426.556	Н	41.8	28.7	-4.1	37.7	24.6	74.0	54.0	36.3	29.4	400.0	204.0	
4	1718.046	V	40.7	27.6	-1.3	39.4	26.3	74.0	54.0	34.6	27.7	105.0	290.0	
5	1938.652	Н	40.4	27.3	-0.3	40.1	27.0	74.0	54.0	33.9	27.0	395.0	342.0	
6	1970.566	V	40.6	27.1	-0.2	40.4	26.9	74.0	54.0	33.6	27.1	192.0	113.0	
7	2172.117	V	39.8	26.5	-0.5	39.3	26.0	74.0	54.0	34.7	28.0	185.0	56.0	
8	2215.884	Н	39.2	26.4	-0.5	38.7	25.9	74.0	54.0	35.3	28.1	306.0	85.0	
9	3168.125	Н	38.0	25.2	4.2	42.2	29.4	74.0	54.0	31.8	24.6	385.0	40.0	
10	3443.345	V	37.3	24.5	5.3	42.6	29.8	74.0	54.0	31.4	24.2	181.0	161.0	
11	4729.502	Н	37.1	23.8	15.1	52.2	38.9	74.0	54.0	21.8	15.1	311.0	242.0	
12	4760.699	V	36.8	23.5	15.3	52.1	38.8	74.0	54.0	21.9	15.2	100.0	271.0	
13	2405.500	Н			0.6			74.0	54.0			200.0	290.0	
14	2446.500	V			0.8			74.0	54.0			200.0	342.0	
15	2454.500	Н			0.8			74.0	54.0			100.0	219.0	
16	2461.000	V			0.8			74.0	54.0			200.0	131.0	

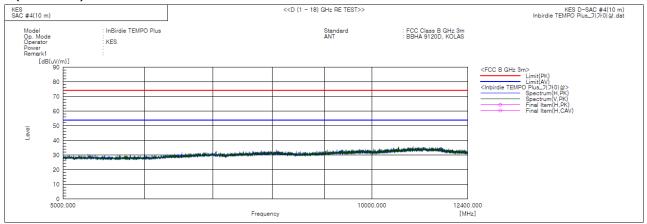
* Mode Exclusion bands

- Fundamental Frequency: 2.4 GHz Band



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- (5 ~ 12.4) GHz



* 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(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