



RF Exposure Report

Applicant: DIGIVIEW TECHNOLOGY LIMITED

Address of Applicant: Room 509, 5/F, Tian Shu Block, Xinggang Tongchuanghui,
No.6099 Baoan District, Shenzhen, GuangDong, China

Manufacturer/Factory: DIGIVIEW TECHNOLOGY LIMITED

**Address of
Manufacturer/Factory:** Room 509, 5/F, Tian Shu Block, Xinggang Tongchuanghui,
No.6099 Baoan District, Shenzhen, GuangDong, China

Equipment Under Test (EUT)

Product Name: BLUETOOTH SPEAKER

Trade Mark: 

Model No.: DSBT150-A

Applicable standards: EN 62311:2008

Date of sample receipt: November 28, 2023

Date of Test: November 28, 2023 To December 8, 2023

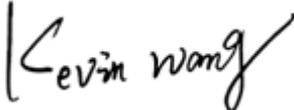
Date of report issue: December 8, 2023

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

Authorized Signature



Kevin Wang
Laboratory Manager





2 Version

Version No.	Date	Description
01	December 8, 2023	Original

Prepared By:

Gang Wang

Date:

December 8, 2023

Project Engineer

Reviewed By:

Kevin Wang

Date:

December 8, 2023

Reviewer





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4 General Information

4.1 General Description of EUT

Product Name:	BLUETOOTH SPEAKER
Brand Name:	
Model No.:	DSBT150-A
Power Supply:	DC 5V ---0.7A (power by type c port charging) or DC 3.7V 2600mAh battery
Antenna Type:	Integral antenna
Antenna Gain:	0.0 dBi (Declared by Applicant)
Operation Frequency:	2402~2480MHz
Channel numbers:	BT BLE:40
Channel separation:	BT BLE:2MHz
Modulation technology:	BT BLE:GFSK

4.2 Description of Support Units

None.

4.3 Deviation from Standards

None.

4.4 Abnormalities from Standard Conditions

None.

4.5 Other Information Requested by the Customer

None.



5 Technical Requirements Specification in EN 62311

Test Requirement:	EN 62311																																																												
Test Method:	EN 62311																																																												
General Description of Applied Standards	EN 62311 Generic standard to demonstrate the compliance of electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (0 Hz–300 GHz) is to demonstrate the compliance of apparatus with the basic restrictions or reference levels on exposure of the general public related to electric, magnetic, electromagnetic fields as well as induced and contact current.																																																												
Limit:	<p>According to EN 62311, the criteria listed in the below table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified table 2 of Council Recommendation 1999/519/EC.</p> <p style="text-align: center;">Reference levels for electric, magnetic and electromagnetic fields (0 Hz to 300 GHz, unperturbed rms values)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Frequency range</th> <th style="text-align: center;">E-field strength (V/m)</th> <th style="text-align: center;">H-field strength (A/m)</th> <th style="text-align: center;">B-field (μT)</th> <th style="text-align: center;">Equivalent plane wave power density S_{eq} (W/m²)</th> </tr> </thead> <tbody> <tr> <td>0-1 Hz</td> <td style="text-align: center;">—</td> <td style="text-align: center;">$3,2 \times 10^4$</td> <td style="text-align: center;">4×10^4</td> <td style="text-align: center;">—</td> </tr> <tr> <td>1-8 Hz</td> <td style="text-align: center;">10 000</td> <td style="text-align: center;">$3,2 \times 10^4 f^2$</td> <td style="text-align: center;">$4 \times 10^4 f^2$</td> <td style="text-align: center;">—</td> </tr> <tr> <td>8-25 Hz</td> <td style="text-align: center;">10 000</td> <td style="text-align: center;">$4 000/f$</td> <td style="text-align: center;">$5 000/f$</td> <td style="text-align: center;">—</td> </tr> <tr> <td>0,025-0,8 kHz</td> <td style="text-align: center;">$250/f$</td> <td style="text-align: center;">$4/f$</td> <td style="text-align: center;">$5/f$</td> <td style="text-align: center;">—</td> </tr> <tr> <td>0,8-3 kHz</td> <td style="text-align: center;">$250/f$</td> <td style="text-align: center;">5</td> <td style="text-align: center;">6,25</td> <td style="text-align: center;">—</td> </tr> <tr> <td>3-150 kHz</td> <td style="text-align: center;">87</td> <td style="text-align: center;">5</td> <td style="text-align: center;">6,25</td> <td style="text-align: center;">—</td> </tr> <tr> <td>0,15-1 MHz</td> <td style="text-align: center;">87</td> <td style="text-align: center;">$0,73/f$</td> <td style="text-align: center;">$0,92/f$</td> <td style="text-align: center;">—</td> </tr> <tr> <td>1-10 MHz</td> <td style="text-align: center;">$87/f^{1/2}$</td> <td style="text-align: center;">$0,73/f$</td> <td style="text-align: center;">$0,92/f$</td> <td style="text-align: center;">—</td> </tr> <tr> <td>10-400 MHz</td> <td style="text-align: center;">28</td> <td style="text-align: center;">0,073</td> <td style="text-align: center;">0,092</td> <td style="text-align: center;">2</td> </tr> <tr> <td>400-2 000 MHz</td> <td style="text-align: center;">$1,375 f^{1/2}$</td> <td style="text-align: center;">$0,0037 f^{1/2}$</td> <td style="text-align: center;">$0,0046 f^{1/2}$</td> <td style="text-align: center;">$f/200$</td> </tr> <tr> <td>2-300 GHz</td> <td style="text-align: center;">61</td> <td style="text-align: center;">0,16</td> <td style="text-align: center;">0,20</td> <td style="text-align: center;">10</td> </tr> </tbody> </table> <p>Notes: 1. <i>f</i> as indicated in the frequency range column.</p>	Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density S_{eq} (W/m ²)	0-1 Hz	—	$3,2 \times 10^4$	4×10^4	—	1-8 Hz	10 000	$3,2 \times 10^4 f^2$	$4 \times 10^4 f^2$	—	8-25 Hz	10 000	$4 000/f$	$5 000/f$	—	0,025-0,8 kHz	$250/f$	$4/f$	$5/f$	—	0,8-3 kHz	$250/f$	5	6,25	—	3-150 kHz	87	5	6,25	—	0,15-1 MHz	87	$0,73/f$	$0,92/f$	—	1-10 MHz	$87/f^{1/2}$	$0,73/f$	$0,92/f$	—	10-400 MHz	28	0,073	0,092	2	400-2 000 MHz	$1,375 f^{1/2}$	$0,0037 f^{1/2}$	$0,0046 f^{1/2}$	$f/200$	2-300 GHz	61	0,16	0,20	10
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Test method:	<p>According to the Far field calculation formula:</p> <p style="text-align: center;">Far Field Calculation Formula</p> $E = \frac{\sqrt{30PG(\theta, \phi)}}{r}$ <p style="text-align: center;"> G = antenna gain relative to an isotropic antenna θ, ϕ = elevation and azimuth angles to point of investigation r = distance from observation point to the antenna </p> <p>The antenna of the product, under normal use condition is at least 20cm away from the body of the user. Warning statement of the user for keeping 20cm separation distance and the prohibition of operating to a person has been printed on the user manual. So, this product under normal use is located on electromagnetic far field between the human body.</p>																																																												
Result:	Pass																																																												

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Measurement Data:

Distance to human body: 20cm

BLE mode					
Frequency (MHz)	Output Power (dBm)	Output Power (mW)	E Field Strength (V/m)	Limit (V/m)	Result
2402~2480	0.87	1.22	1.21	61.00	Pass

-----End-----

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