

SAR EXCLUSION REPORT

Manufacturer: Transducers Direct, LLC

12115 Ellington Court

Cincinnati, Ohio 45249 USA

Applicant: Same As Above

Product Name: TDWLB Series Wireless Bluetooth Pressure Transducer,

Ver.2

Product Description: Bluetooth Enabled Wireless Pressure Transducer Version 2

Model: TDWLBG2

Part Number: TDWLB0100031*

*Denotes actual part number tested as representative of product

family identified in Section 5.0 of this Test Report.

FCC ID: 2ACGE-TDWLBG2

Standards:

KDB447498 Appendix A

Report Constructed by:

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Joe Knepper

Report Reviewed by:

Ken Littell, Director of EMC & Wireless Operations

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Applicant: Transducers Direct, LLC

Model: TDWLBG2

1 ADMINISTRATIVE INFORMATION

1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

1.2 Document History

Document Number	Description	Issue Date	Approved By
F2LQ8686B-03E	First Issue	Feb. 17, 2017	K. Littell

Report Number: F2LQ8686B-03E Page 3 of 7 Issue Date: Feb. 17, 2017



Applicant: Transducers Direct, LLC Model: TDWLBG2

2 **SUMMARY OF RESULTS**

	Standard(s)	Results
SAR Exclusion	KDB447498, Appendix A	Complies

Modif	ications Made to the Equipment
	None

Applicant: Transducers Direct, LLC

Model: TDWLBG2

3 ENGINEERING STATEMENT

This report has been prepared on behalf of Transducers Direct, LLC to provide documentation for the SAR Exclusion herein. This equipment has been tested and found to comply with the SAR Exclusion levels listed in Appendix A of KDB447498. The highest peak output power measured from the EUT was 3.78mW and the highest EIRP was 6.14mW which is well below the exclusion limit of 10mW at 5mm.

Appendix A

SAR Test Exclusion Thresholds for 100 MHz − 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	SAR Test Exclusion Threshold (mW)
1900	11	22	33	44	54	
2450	10	19	29	38	48	Tra esnota (III VI)
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	mm
150	232	271	310	349	387	
300	164	192	219	246	274	
	.01					1
450	134	157	179	201	224	
450 835		157 115	179 131	201 148	224 164	-
	134	1.500	18.55	Contract 1		
835	134 98	115	131	148	164	SAR Test
835 900	134 98 95	115 111	131 126	148 142	164 158	Exclusion
835 900 1500	134 98 95 73	115 111 86	131 126 98	148 142 110	164 158 122	
835 900 1500 1900	134 98 95 73 65	115 111 86 76	131 126 98 87	148 142 110 98	164 158 122 109	Exclusion
835 900 1500 1900 2450	134 98 95 73 65 57	115 111 86 76 67	131 126 98 87 77	148 142 110 98 86	164 158 122 109 96	Exclusion
835 900 1500 1900 2450 3600	134 98 95 73 65 57 47	115 111 86 76 67 55	131 126 98 87 77 63	148 142 110 98 86 71	164 158 122 109 96 79	Exclusion

Note: 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g SAR Test Exclusion Thresholds indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.

Applicant: Transducers Direct, LLC

Model: TDWLBG2

4 EUT INFORMATION AND DATA

4.1 Equipment Under Test:

Product: TDWLB Series Wireless Bluetooth Pressure Transducer, Ver.2

Model: TDWLBG2

Part No.: TDWLB0100031* Serial No.: None Specified FCC ID: 2ACGE-TDWLBG2

*Denotes actual part number tested as representative of product family identified in Section 5.0 of this Test Report.

4.2 Trade Name:

Transducers Direct, LLC

4.3 Power Supply:

Battery-operated

4.4 Applicable Rules:

KDB447498

4.5 Equipment Category:

Radio Transmitter-DTS

4.6 Antenna:

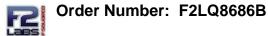
2.1dBi Integral Antenna

4.7 Accessories:

N/A

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5.0 PRODUCT FAMILY IDENTIFICATION

