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RADIO REPORT FOR CERTIFICATION to 47 CFR Part 15 Subpart C (Section 15.247)		
Test Report Number: S190733-2 v3		
FCC ID:	PN2-BZT1	
Report Number:	S190733-2 v3	
Tested For: Device under Test : Model Number : Serial Numbers:	Adherium (NZ) Ltd Hailie Sensor (for Breztri Aersphere) NF0103 000001, 000002, 000003 and 000005	
Issue Date:	16 th July 2020	

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REVISION TABLE

Version	Sec/Para Changed	Change Made	Date
1		Initial issue of document	26/09/2019
2	All	Inclusion of FCC ID: PN2-BZT1	08/07/2020
	1.1	KDB Reference version updated	
	2.5	Equipment Table updated	
	Page 4	Update address	
3	3	Updated Contents Page	16/07/2020
	All	Amend to version 3 and update of Issue Date of Report	16/07/2020



RADIO REPORT FOR CERTIFICATION

47 CFR Part 15 Subpart C (Section 15.247)

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	EMC
	Technologies
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RADIO REPORT FOR CERTIFICATION

Test Report No:	S190733-2 v3		
Product :	Hailie Sensor (for Breztri Aerosphere)		
Model Number: Serial Numbers:	NF0103 000001, 000002, 000003 and 000005		
Manufacturer:	Adherium (NZ) Ltd		
Tested for: Address:	Adherium (NZ) Ltd Level 11, 16 Kingston Street, Auckland, 1010, New Zealand		
Phone:	+64 9 307 2771		
Contact:	Mr Chris Mander		
FCC ID:	PN2-BZT1		
Standards:	47 CFR Part 15 – Radio Frequen Subpart C – Intentional Radiator Section 15.247 – Operation wi 2400-2483.5 MHz, and 5725-585	icy Devices s thin the bands 902-928 MHz, 0 MHz	
Test Dates:	15 th August 2019 to 12 th Septemb	per 2019	
Issue Date:	16 th July 2020		
Attestation:	I hereby certify that the device(s as described in this report and tha was obtained during such testing) described herein were tested t the data included is that which	
Test Engineer:	A	A ER	
	Dong Feng	Quinn Wu	
Authorised Signatory:	Zmluturon		
	Robert Middleton		

Robert Middleton Sydney Branch Manager EMC Technologies Pty Ltd.

Issued by: EMC Technologies Pty. Ltd., Unit 3, 87 Station Road, Seven Hills, NSW, 2147, Australia. Phone: +61 2 9624 2777 E-mail: <u>emc-general@emctech.com.au</u> Web: <u>www.emctech.com.au</u>



RADIO REPORT FOR CERTIFICATION to 47 CFR Part 15 Subpart C (section 15.247)

1.0 INTRODUCTION

Radio tests were performed on Hailie Sensor (for Breztri Aerosphere) with Model Number: NF0103, in accordance with the applicable requirements of 47 CFR, Part 15 Subpart C – Section 15.247 operating within the band: 2400 MHz to 2483.5 MHz.

1.1 Test Procedure

Radio measurements were performed in accordance with the appropriate procedures of ANSI C63.10: 2013 and KDB 558074 v05r02 - Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

The measurement instrumentation conformed to the requirements of ANSI C63.2: 2016.

FCC Part 15 Subpart C	Test Performed	Results
15.203	Antenna requirement	Complied
15.204	Antenna information	Complied
15.205	Restricted bands of operation	Complied
15.207	Disturbance voltage on AC Mains	Not Applicable EUT is DC powered
15.247(c)	Spurious radiated emission 15.209 limit applied	Complied
15.247 (a2)	6 dB Bandwidth	Complied
15.247 (e)	3 kHz Peak Power Density	Complied
15.247 (b)	Peak Output Power	Complied
15.247 (c)	Antenna Gain > 6 dBi	Not Applicable
15.247 (d)	Out of Band Emissions	Complied
15.247 (f)	Hybrid Systems	Not Applicable
15.247 (i)	99% Occupied bandwidth	Complied

1.2 Summary of 47 CFR Part 15 Subpart C Results

1.3 Modifications by EMC Technologies

No modifications were performed on the EUT in order to achieve compliance.



2.0 GENERAL INFORMATION

2.1 EUT (Transmitter) Details

The Equipment Under Test (EUT) was identified as follows:

FCC ID:	PN2-BZT1
Manufacturer:	Adherium (NZ) Ltd
Product :	Hailie Sensor (for Breztri Aerosphere)
Model Number:	NF0103
Serial Number:	000001, 000002, 000003 and 000005
Operating Band:	2.40 – 2.48GHz
Modulation:	GFSK (1Mb/s)
Antenna type and gain:	Integral Omni directional 1dBi
Nominal Power:	2.5nW
Channels:	40
Data Cable:	RG-316 coaxial cable for the antenna extension
	for test samples with antenna
Classification	Transceiver
Туре:	Bluetooth
Support Equipment:	Empty Brezti Aerosphere Inhaler
	Docking cradle with USB Lead

2.2 Test Sample Description

The EUT is a hand-held battery operated electronic medical device that clips onto a metered dose inhaler (MDI) to log when medication is used and remind when medication is due.

2.3 Test Configuration

The Test Model firmware for operating mode selected from PC software, and RF modes selected from device control button.

2.4 Test Facility

2.4.1 General

EMC Technologies Pty Ltd is listed by the FCC as a test laboratory able to perform compliance testing for the public. EMC Technologies is listed as an FCC part 47CFR2.948 test lab and may perform the testing required under Parts 15 and 18 – FCC Registration Number 90560.

EMC Technologies Pty Ltd has been accredited as a Conformity Assessment Body (CAB) by Australian Communications and Media Authority (ACMA) under the APECTEL MRA and is designated to perform compliance testing on equipment subject to Declaration of Conformity (DoC) and Certification under Parts 15 and 18 of the FCC Commission's rules – **Designation number AU0002.**

Measurements in this report were performed at EMC Technologies' laboratory in Seven Hills, New South Wales Australia.



2.4.2 NATA Accreditation

NATA is the Australian National laboratory accreditation body and has accredited EMC Technologies to operate to the IEC/ISO17025 requirements. A major requirement for accreditation is the assessment of the company and its personnel as being technically competent in testing to the standards. This requires fully documented test procedures, continued calibration of all equipment to the National Standard at the National Measurements Institute (NMI) and an internal quality system to ISO 9002. NATA has mutual recognition agreements with the National Voluntary Laboratory Accreditation Program (NVLAP) and the American Association for Laboratory Accreditation (A²LA).

EMC Technologies is accredited in Australia by the National Association of Testing Authorities (NATA). All testing in this report has been conducted in accordance with EMC Technologies' scope of NATA accreditation.

The current full scope of accreditation can be found on the NATA website: www.nata.asn.au

2.5 Test Equipment Calibration

Measurement instrumentation and transducers were calibrated in accordance with the applicable standards by an independent NATA registered laboratory All equipment calibration is traceable to Australian national standards at the National Measurements Institute.

Equipment Type	Make/Model Serial Number	Asset No:	Due Date DD/MM/YY
EMI Receivers	Model: ESCI S/N: 100012 9Hz – 3GHz	R-029	27/04/21
	Rohde & Schwarz, 20Hz -40GHz Model: EU40I, S/N: 100138	R-038	27/03/21
Antenna	Double Ridged Horn Antenna 1-18GHz Model: EMCO 3115 S/N: 3823	A-324	29/01/21
	Sunar RF Motion Model: JB1 S/N: A021318	A-430	08/03/21
	ETS Horn Antenna S/N: 00066033	A-305	12/06/21
	EMCO 6502 ELECTRIC ANTENNA S/N: 9108-2660	A-008	12/12/21
Cables	13m RG214 N-Type, 0.1- 6000MHz	SC-028	16/07/20
Preamplifier	HP 8449B Preamplifier Model: HP 8449B S/N: 3008A01113	A-138	07/08/20

TEST SITES

Equipment Type	Make/Model Serial Number	Due Date DD/MM/YY
Shielded Room/ Test Laboratory	7.23m imes 4.83m imes 2.45m	N/A
Indoor Open Area Test Site (iOATS)	RFI Industries S800 Serial Number: 876, 3 metre site iOATS situated at Seven Hills, NSW	20/04/21



3.0 TEST RESULTS

3.1 §15.203 Antenna Requirement

Requirement:

No antenna other than that furnished by the responsible party shall be used with the device.

Integral omnidirectional

NA

1 dBi

Results:

The antenna was integral to the device ensuring that it could not be replaced. EUT was fully enclosed.

Conclusion: Complied

3.2 §15.204 Antenna Information

Requirement:

Provide information for every antenna proposed for the use with the EUT.

Results:

- a) Antenna type:
- b) Manufacture and model No.:
- c) Gain with reference to an isotropic radiator:

Conclusion: Complied

3.3 §15.207 Conducted Limits

Testing on AC mains not applicable as the EUT is DC battery powered.

3.4 §15.247(a2) 6 dB Bandwidth

Requirement:

Systems using digital modulation techniques may operate in the 902-928MHz, 2400- 2483.5MHz, and 5725-5850MHz bands. The minimum 6dB bandwidth shall be at least 500kHz.

Results:

6 dB Emission Bandwidth:

Centre Frequency [MHz]	6 dB Bandwidth [kHz]
2402	504
2440	504
2480	528









Date: 15.AUG.2019 14:03:02





Date: 15.AUG.2019 14:10:54

Conclusion: Complied



3.5 §15.247(e) 3 kHz Peak Power Density

Requirement:

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Results:

Centre Frequency [MHz]	3 kHz Peak Power density [dBm]
2402	-10.97
2440	-7.58
2480	-8.45







Date: 15.AUG.2019 14:24:15

Channel 2480 MHz



Date: 15.AUG.2019 14:24:41



3.6 §15.247(b) Peak Output power

For system using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz Bands: 1 Watt.

1W=30dBm.

The antenna gain of integral antenna is 1 dBi.

Results:

Frequency (MHz)	Conducted Power Measured (dBm)
2402	2.98
2440	3.05
2480	3.11

Channel 2402 MHz



Date: 15.AUG.2019 09:14:38





Date: 15.AUG.2019 09:16:07



Date: 15.AUG.2019 09:17:16

Conclusion: Complied



3.7 §15.205 Restricted Bands of Operation

Requirement:

Radiated emissions which fall in the restricted bands, as defined in 15.205(a), Must also comply with the radiated emission limits specified in 15.209(a).

Results:

The15.209 limit was applied across the applicable spectrum and therefore complied with the restricted band requirements. Refer to result plots in 3.8 of this report. Two restricted bands are located either side of operating band: 2310-2390MHz, 2483.5-2500MHz. 2390MHz was checked as band edge of bottom channel and 2483.5MHz was checked as band edge of top channel. Refer to result plots in 3.9 of this report.

Conclusion: Complied

3.8 §15.247(d) Spurious Radiated Emission

Requirement:

In any 100KHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a)

Limits of 15.209(a) was applied cross the applicable spectrum as that is the most stringent requirement.

Radiated spurious emission measurements were performed in a semi-anechoic chamber compliant with ANSI C63.4: 2014.

The test frequency range was sub-divided into smaller bands with sufficient frequency resolution to permit reliable display and identification of emissions.

Frequency range [MHz]	Measurement Bandwidth [kHz]	Measurement Distance [m]	Antenna
0.009 to 30	9	3	Active loop antenna
30 to 1000	120	3	Biconilog antenna
1000 to 18 000	1000	3	Broad band horn
18 000 to 25 000	1000	1	Broad band horn

The sample was slowly rotated with the spectrum analyser set to Max-Hold. This was performed for at least two antenna heights. When an emission was located, it was positively identified and its maximum level found by rotating the automated turntable and by varying the antenna height. Devices design for a fixed position were tested in that position, portable devices were prescanned in three orthogonal orientations to decide maximum emission direction.

The measurement data for each frequency range was corrected for cable losses, antenna factors and preamplifier gain. This process was performed for both horizontal and vertical antenna polarisations.

Calculation of field strength

The field strength was calculated automatically by software using pre-stored calibration data. The method of calculation is shown below:

versus frequency)

E = V + AF - G + L

Where:

	-	
E	=	Radiated Field Strength in dBµV/m.
V	=	EMI Receiver Voltage in dBµV. (measured value)
AF	=	Antenna Factor in dB. (stored as a data array)
G	=	Preamplifier Gain in dB. (stored as a data array)
L	=	Cable loss in dB. (stored as a data array of Insertion Loss



3.8.1 Frequency Band: 0.009 - 30 MHz

Measurements were made at a distance of 3 metres. The measurement of emissions between 0.009 - 30 MHz were made with a resolution bandwidth (RBW) of 9 kHz and the video bandwidth (VBW) of 30 kHz.

The §15.209 limit applied

Test Result:

All measured frequencies complied with the Limit by a margin of greater than 10dB.

Channel 2402, Perpendicular Polarisation



Channel 2402, Parallel Polarisation





Channel 2402, Ground-Parallel Polarisation



Channel 2440, Perpendicular Polarisation





Channel 2440, Parallel Polarisation



Channel 2440, Ground-Parallel Polarisation





Channel 2480, Perpendicular Polarisation



Channel 2480, Parallel Polarisation





Channel 2480, Ground-Parallel Polarisation



3.8.2 Frequency Band: 30 - 1000 MHz

Measurements were made at a distance of 3 metres. The measurement of emissions between 30 - 1000 MHz were made with a resolution bandwidth (RBW) of 120 kHz and the video bandwidth (VBW) of 300 kHz.

The §15.209 limit applied

Test Result: All measured frequencies complied with the Limit by a margin of greater than 10dB.







All measured frequencies complied with the Limit by a margin of greater than 10dB.



All measured frequencies complied with the limit by a margin of greater than 10dB.





All measured frequencies complied with the limit by a margin of greater than 10dB.



Horizontal Polarisation

29 to 1000MHz



All measured frequencies complied with the limit by a margin of greater than 10dB.





All measured frequencies complied with the limit by a margin of greater than 10dB.



All measured frequencies complied with the limit by a margin of greater than 10dB.



3.8.3 Frequency Band: 1000 – 18000 MHz

Measurements from 1 to 18 GHz were made at a distance of 3 metres. The average measurements were made with a resolution bandwidth (RBW) of 1000 kHz and the video bandwidth (VBW) of 10kHz. The §15.209(a) limits applied.

Test Result:

All measured frequencies complied with the Limit by a margin of at least 4.2dB*. * This measurement falls within the laboratory's measurement uncertainty.

Channel 1 – Average Measurements



All measured frequencies complied with the Limit by a margin of at least 4.4dB*. * This measurement falls within the laboratory's measurement uncertainty.





All measured frequencies complied with the Limit by a margin of greater than 10dB.



Channel 1 – Peak Measurements



All measured frequencies complied with the peak limit by a margin of at least 8.9dB.



All measured frequencies complied with the peak limit by a margin of greater than 10dB.



Channel 2 – Average Measurements



Vertical Polarisation

1000 to 18000 MHz



All measured frequencies complied with the average limits by a margin of at least 4.2dB*. * This measurement falls within the laboratory's measurement uncertainty.



Horizontal Polarisation

1000 to 18000 MHz



All measured frequencies complied with the average limit by a margin of greater than 10dB.





Channel 2 – Peak Measurements

All measured frequencies complied with the peak limit by a margin of greater than 10dB.



All measured frequencies complied with the peak limit by a margin of greater than 10dB.



70.0

1000 to 18000 MHz

GRAPH No. 24

Channel 3



Vertical Polarisation Average Measurements EMC Technologies Pty. Ltd. - Global Product Certification FCC Part15C Radiated Emissions (dBuV/m) p:\PCF\\$190733RF_24.PCF Job No: \$190733 Test Date: 12/09/2019 - Ambient = AV Value



All measured frequencies complied with the average limit by a margin of at least 4.9dB.

Graph 25 **Average Measurements Horizontal Polarisation** 1000 to 18000 MHz



All measured frequencies complied with the average limit by a margin of greater than 10dB





Channel 3 – Peak Measurements

All measured frequencies complied with the peak limit by a margin of at least 7.8dB.



All measured frequencies complied with the peak limit by a margin of at least 7.7dB.

Conclusion: The EUT complied with the limits of FCC Rule Part 15 Subpart C, 15.209.



3.8.3 Frequency Band: 18000 - 26500 MHz

Measurements from 18 ti 26.5GHz were made at a distance of 1 metres. The average measurements were made with a resolution bandwidth (RBW) of 1000 kHz and the video bandwidth (VBW) of 10kHz. The §15.209(a) limits applied.





All measured frequencies complied with the average limit by a margin of greater than 10dB.



All measured frequencies complied with average limit by a margin of greater than 10dB.



Channel 1 – Peak Measurements



All measured frequencies complied with the peak limit by a margin of greater than 10dB.



All measured frequencies complied with the peak limit by a margin of greater than 10dB.







All measured frequencies complied with the average limit by a margin of greater than 10dB.



All measured frequencies complied with the average limit by a margin of greater than 10dB.



Channel 2 – Peak Measurements



All measured frequencies complied with the peak limit by a margin of greater than 10dB.



All measured frequencies complied with the peak limit by a margin of greater than 1d0B.







All measured frequencies complied with average limit by a margin of greater than 10dB.



All measured frequencies complied with the average limit by a margin of greater than 10dB.



Channel 2 – Peak Measurements



All measured frequencies complied with the peak limit by a margin of greater than 10dB.



All measured frequencies complied with the peak limit by a margin of greater than 10dB.

Conclusion: The EUT complied with the limits of FCC Rule Part 15 Subpart C, 15.209.



3.9 15.247(d) Out of Band Emissions

Requirement:

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

The §15.209(a) limits are for reference only.



3.9.1 Authorized-band band-edge

Test was done by conducted measurement according to C63.10 Clause 6.10.4

Results:



Date: 15.AUG.2019 14:43:53

Channel 2480 MHz, Top Band Edge:



Date: 15.AUG.2019 14:50:44



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Date: 15.AUG.2019 15:05:08



Date: 15.AUG.2019 15:10:50

Conclusion: Complied.



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3.9.2 Restricted-band band-edge

This was done by radiated measurement according to C63.10 Clause 6.10.5

The peak measurements were made with a resolution bandwidth (RBW) of 1000 kHz and the video bandwidth (VBW) of 1000 kHz, The average measurement were made with a resolution bandwidth(RBW) of 1000kHz and the video bandwidth(VBW) of 10kHz.

Results:

Mark1 and Mark2 being set to around 2390MHz and 2483.5MHz

Channel 2402 – Average Measurements



Vertical Polarization 2350 to 2500MHz



Graph 29

Horizontal Polarization

2350 to 2500MHz





Channel 2402 – Peak Measurements



Graph 31 Horizontal Polarization 2350 to 2500MHz





Channel 2480 – Average Measurements



Graph 33 Horizontal Polarization 2350 to 2500MHz





Channel 2480 – Peak Measurements



Graph 35 Horizontal Polarization 2350 to 2500MHz





Hopping on – Average Measurements



Vertical Polarization 2350 t

2350 to 2500MHz



Graph 37 Horizontal Polarization 2350 to 2500MHz





Hopping on – Peak Measurements



Vertical Polarization

2350 to 2500MHz



Graph 39 Horizontal Polarization 2350 to 2500MHz





3.10 §15.247(i) Maximum Permissible Exposure

Table 1—Limits for Maximum Permissible Exposure (MPE)								
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)				
(A) Limits for Occupational/Controlled Exposure								
0.3-3.0	614	1.63	*100	6				
3.0-30	1842/f	4.89/f	*900/f2	6				
30-300	61.4	0.163	1.0	6				
300-1,500			f/300	6				
1,500-100,000			5	6				
(B) Limits for General Population/Uncontrolled Exposure								
0.3-1.34	614	1.63	*100	30				
1.34-30	824/f	2.19/f	*180/f2	30				
30-300	27.5	0.073	0.2	30				
<mark>300-1,500</mark>			<mark>f/1500</mark>	30				
1,500-100,000			1.0	30				

.....

Requirement:

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the commision's guidelines. See §1.1307(b)(1) of this chaper.

Due to the nature of EUT, Calculations were performed according to devices used within 20 cm of person (FCC2.1093) - < 50mm test separation.

KDB 447498 D01 v06 was used to calculate the minimum separation distance allowed before SAR measurements were required.

1-g Head or Body SAR: $\left(\frac{max.channel \ power,mW}{min.separation \ distance,mm}\right) \times \sqrt{f(GHz)} \leq 3.0$

10-g Extremity SAR:

 $\left(\frac{max. channel power, mW}{min. separation distance, mm}\right) \times \sqrt{f(GHz)} \le 7.5$

Result:

Maximum measured power, E.I.R.P. = 3.11dBm + 1dBi = 4.11dBm = 2.57mW Minimum separation distance = 5mm Highest frequency = 2.48 GHz

 $(2.57 \text{mW} / 5 \text{ mm}) \times \sqrt{2.48} \text{ GHz} = 0.82 < 3.0 \text{ and } 7.5$

Conclusion: Complied.



3.11 §2.1049 Occupied bandwidth – 99% power

The bandwidth containing 99% power of the transmitted signal was measured using the procedure from ANSI C63.10 section 6.9.

Channel [kHz]	99% Bandwidth [MHz]	Low Frequency [GHz]	High Frequency [GHz]
2402	1.02	2.401556	2.402576
2402	0.996	2.439556	2.440552
2480	1.008	2.479556	2.480564



99% Occupied Bandwidth

Date: 15.AUG.2019 11:26:03



99% Occupied Bandwidth



Date: 15.AUG.2019 12:31:05



99% Occupied Bandwidth

Date: 15.AUG.2019 11:30:47



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4.0 COMPLIANCE STATEMENT

The Hailie Sensor (for Breztri Aersphere) with Model Number: NF0103 tested on behalf of Adherium (NZ) Ltd, complied with the requirements of 47 CFR, Part 15 Subpart C - Rules for Radio Frequency Devices (intentional radiators) operating within the band: 2400 MHz to 2483.5 MHz.

5.0 MEASUREMENT UNCERTAINTY

EMC Technologies has evaluated the equipment and the methods used to perform the emissions testing. The estimated measurement uncertainties for emissions tests shown within this report are as follows:

Radiated Emissions:	9 kHz to 30 MHz 30 MHz to 300 MHz 300 MHz to 1000 MHz 1 GHz to 18 GHz	±4.1 dB ±5.1 dB ±4.7 dB ±4.6 dB
Peak Output Power:		±1.5 dB
Peak Power Spectral Density:		±1.5 dB

The above expanded uncertainties are based on standard uncertainties multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

