



FCC LISTED, REGISTRATION  
NUMBER: 2764.01

Test report No:  
3007ERM.001

ISED LISTED REGISTRATION  
NUMBER: 23595-1

## Test report

FCC Rules and Regulations CFR 47, Part 15, Subpart B (10-1-19 Edition)  
&  
ICES-003 ISSUE 7 – October (2020)

(*) Identification of item tested	Bluetooth LE device for data gathering as it relates to sports activities.
(*) Trademark	UA
(*) Model and /or type reference tested	UAFP3
Other identification of the product	-
(*) Features	Bluetooth LE
Manufacturer	Under Armour 211 Walter Seaholm Dr, Suite 200 Austin, TX 78701
Test method requested, standard	FCC Rules and Regulations CFR 47, Part 15, Subpart B (10-1-19 Edition) ICES-003 ISSUE 7 – October (2020)
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager
Date of issue	09-11-2021
Report template No	FDT08_23 (*) "Data provided by the client"

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## Competences and guarantees

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DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the Certificate 2764.01

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA Certification Inc. has a calibration and maintenance program for its measurement equipment.

DEKRA Certification Inc. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Certification at the time of performance of the test.

DEKRA Certification Inc. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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## General conditions

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1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Certification Inc.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Certification Inc. and the Accreditation Bodies.

## Uncertainty

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Uncertainty (factor k=2) was calculated according to the DEKRA Certification internal document PODT000.

	Frequency (MHz)	U(k=2)	Units
Radiated emission	30 - 1000	5.94	dB
	1000-18000	5.89	dB

## Data provided by the client

Data gathering (Accelerometer) device intended for wearable products.

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

## Usage of samples

Samples undergoing test have been selected by **The Client**.

Sample S/01 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
3007/05	Radiated sample	280721	MLCD010DB0V4K	08/10/2021

Following Auxiliary items were used with Sample S/01 to perform testing:

Control Nº	Description	Model	Serial Nº
Dekra 6	Iphone 8	MQ6V2LL/A	356396101339598

1. Sample S/01 has undergone following test(s): Radiated emission test indicated in appendix A

## Test sample description

Ports.....:	Port name and description	Cable							
		Specified length [m]	Attached during test	Shielded	Coupled to patient				
	No Data Provided	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A				
Supplementary information to the ports.....:	No Data Provided								
Rated power supply .....	Voltage and Frequency	Reference poles							
		L1	L2	L3	N				
	<input type="checkbox"/> AC:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
	<input type="checkbox"/> AC:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
	<input checked="" type="checkbox"/> DC: 3.0V								
	<input type="checkbox"/> DC:								
Rated Power .....	0.05W								
Clock frequencies.....:	38.5MHz								
Other parameters .....	No Data Provided								
Software version .....	0.15								
Hardware version .....	Rev B2								
Dimensions in mm (W x H x D) ...:	23.3mm x 35.1mm x 5.5mm								
Mounting position .....	<input type="checkbox"/>	Table top equipment							
	<input type="checkbox"/>	Wall/Ceiling mounted equipment							
	<input type="checkbox"/>	Floor standing equipment							
	<input type="checkbox"/>	Hand-held equipment							
	<input type="checkbox"/>	Other:							
Modules/parts.....:	Module/parts of test item	Type			Manufacturer				
	No Data Provided								
Accessories (not part of the test item) .....	Description	Type			Manufacturer				
	No Data Provided								

Documents as provided by the applicant .....	Description	File name	Issue date
	Declaration Equipment Data	FDT30_18 Declaration Equipment Data_rev2	08/26/2021
<b>Copy of marking plate:</b>			
			

## Identification of the client

Under Armour  
211 Walter Seaholm Dr, Suite 200  
Austin, TX 78701

## Testing period and place

<b>Test Location</b>	DEKRA Certification Inc.
<b>Date (start)</b>	08-11-2021
<b>Date (finish)</b>	08-12-2021

## Document history

Report number	Date	Description
3007ERM.001	09-11-2021	First release

## Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 30 % Max. = 75 %
<b>Air pressure</b>	Min. = 860 mbar Max. = 1060 mbar

In the semi-anechoic chamber, the following limits were not exceeded during the test.

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 30 % Max. = 75 %
<b>Air pressure</b>	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 30 % Max. = 60 %
<b>Air pressure</b>	Min. = 860 mbar Max. = 1060 mbar

## Remarks and comments

1. The tests have been performed by the technical personnel: Koji Nishimoto, Nasir Khan and Lourdes Valverde.

## Testing verdicts

Not applicable :	N/A
Pass :	P
Fail :	F
Not measured :	N/M

## Summary

Emission Test				
Report Section	Requirement – Test case	Verdict	Remark	
A.1	Radiated emission test (30 MHz – 1000 MHz)	P	N/A	
A.1	Radiated emission test (1 GHz – 18 GHz)	P	N/A	
-	Radiated emission test (18 GHz – 40 GHz)	N/A	Refer 1	
-	Conducted emission test (150 kHz to 30 MHz)	N/A	Refer 2	

Supplementary information and remarks:

- 1) According with the requirements of FCC Rules and Regulations, title 47, Chapter I, Subchapter A, Part 15, Subpart A, §15.33 Frequency range of radiated measurements, (b) for unintentional radiators, (1) due to The Highest frequency generated or used in the device above 1000MHz, The Upper frequency of measurement range is up to 5th harmonic of the highest frequency or 40GHz, whichever is lower.
- 2) According with the requirements of FCC Rules and Regulations, title 47, Chapter I, Subchapter A, Part 15, Subpart B, §15.107 Conducted limits, (d) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provision for, the use of battery chargers which permit operating while charging, AC adaptors or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

## List of equipment used during the test

### Radiated Emission Equipment

CONTROL NUMBER	DESCRIPTION	MANUFACTURER	MODEL	LAST CALIBRATION	NEXT CALIBRATION
1012	EMI Test Receiver	Rohde & Schwarz	ESR26	2019/12	2021/12
1057	Horn Antenna	ETS Lindgren	3115	2020/05	2023/05
1065	Biconical log Antenna	ETS Lindgren	3142E	2020/08	2023/08
0981	RF pre-amplifier 1- 18 GHz	Bonn Elektronik	BLMA 0118-2A	2020/11	2022/11
1108	Ethernet SNMP Thermometer- CR Room	HW Group	HWg-STE Plain	2020/08	2022/08
1111	Ethernet SNMP Thermometer- SAC	HW Group	HWg-STE Plain	2020/08	2022/08
1179	Semi-Anechoic Chamber	Frankonia	SAC 3plus 'L'	N/A	N/A
1314	Wireless measurement software EMC 32	Rohde & Schwarz	-	N/A	N/A

## Appendix A: Test results

## Appendix A Content

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## DESCRIPTION OF THE OPERATION MODES

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The operation modes described in this paragraph represent functionalities of the sample under test.

The following operation modes of the samples were used during the test executions:

OPERATION MODE	DESCRIPTION
OM#01	DUT ON. Power supply 3 Vdc. <ul style="list-style-type: none"><li>• BTLE in IDLE mode.</li></ul>

## A.1. RADIATED EMISSION ELECTROMAGNETIC FIELD

<b>LIMITS:</b>	Product standard:	FCC CFR 47, Part 15, Subpart B (10-1-19 Edition), Secs. 15.109 & ICES-003 Issue 7 – October (2020)
	Test standard:	FCC CFR 47, Part 15, Subpart B (10-1-19 Edition), Secs. 15.109 & ICES-003 Issue 7 – October (2020); ANSI C63.4 (2014)

### Limits of interference Class B

The applied limit for radiated emissions, 3 m distance, according with the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B (10-01-19 Edition), Secs. 15.109 & ICES-003 Issue 7 – October (2020) in the frequency range 30 MHz to 40 GHz for class B equipment.

Frequency range (MHz)	QP Limit for 3 m	
	( $\mu$ V/m)	(dB $\mu$ V/m)
30 to 88	100	40
88 to 216	150	43.5
216 to 960	200	46
Above 960	500	54

Frequency range (MHz)	AVG Limit for 3 m		PK Limit for 3 m (1)
	( $\mu$ V/m)	(dB $\mu$ V/m)	(dB $\mu$ V/m)
Above 1000	500	54	74

(1) Frequencies above 1 GHz, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test, as per §15.35(b)

### TEST SETUP

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 3 m for the frequency range 30-100 MHz (Bilog antenna) and 1-18 GHz (Double ridge horn antenna).

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

TEST SETUP (CONT.)

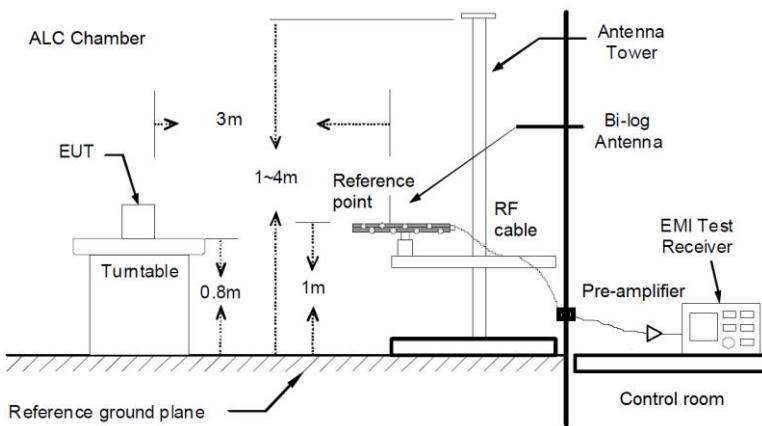


Fig A1: Generic setup for measurements from 30 to 1000MHz

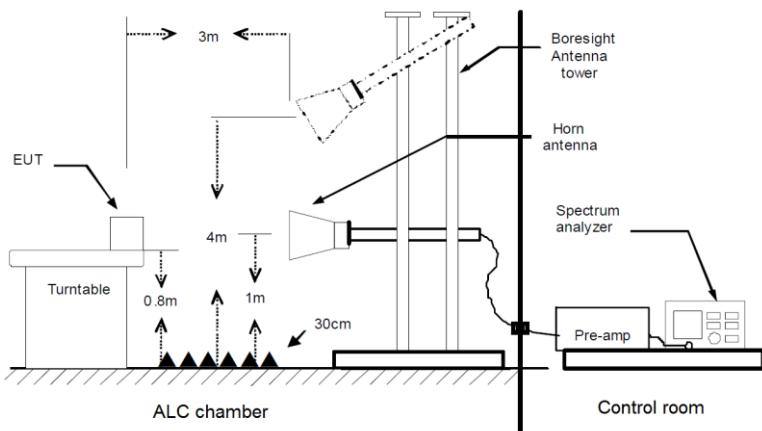
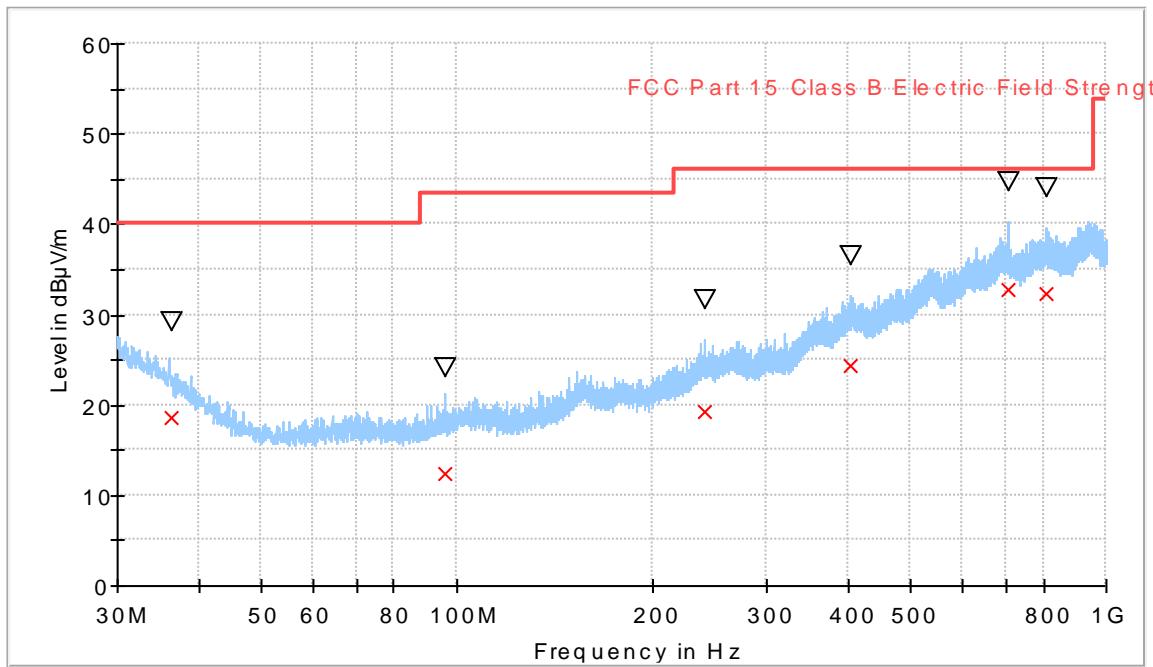


Fig A2: Generic setup for measurements from 1 to 18GHz

<b>TESTED SAMPLES:</b>	S/01	
<b>TESTED CONDITIONS MODES:</b>	OM#01	
<b>TEST RESULTS:</b>	CRmmnnxx: CR: Radiation Condition, mm: Sample number, nn: Operation mode, xx: Frequency Range	
CRmmnnxx	Description	Result
CR0101LR	Range: 30 MHz - 1000 MHz Horizontal and Vertical Polarization	P
CR0101HR	Range: 1GHz - 18 GHz Horizontal and Vertical Polarization	P

TEST RESULTS (Cont.):

CR0101LR

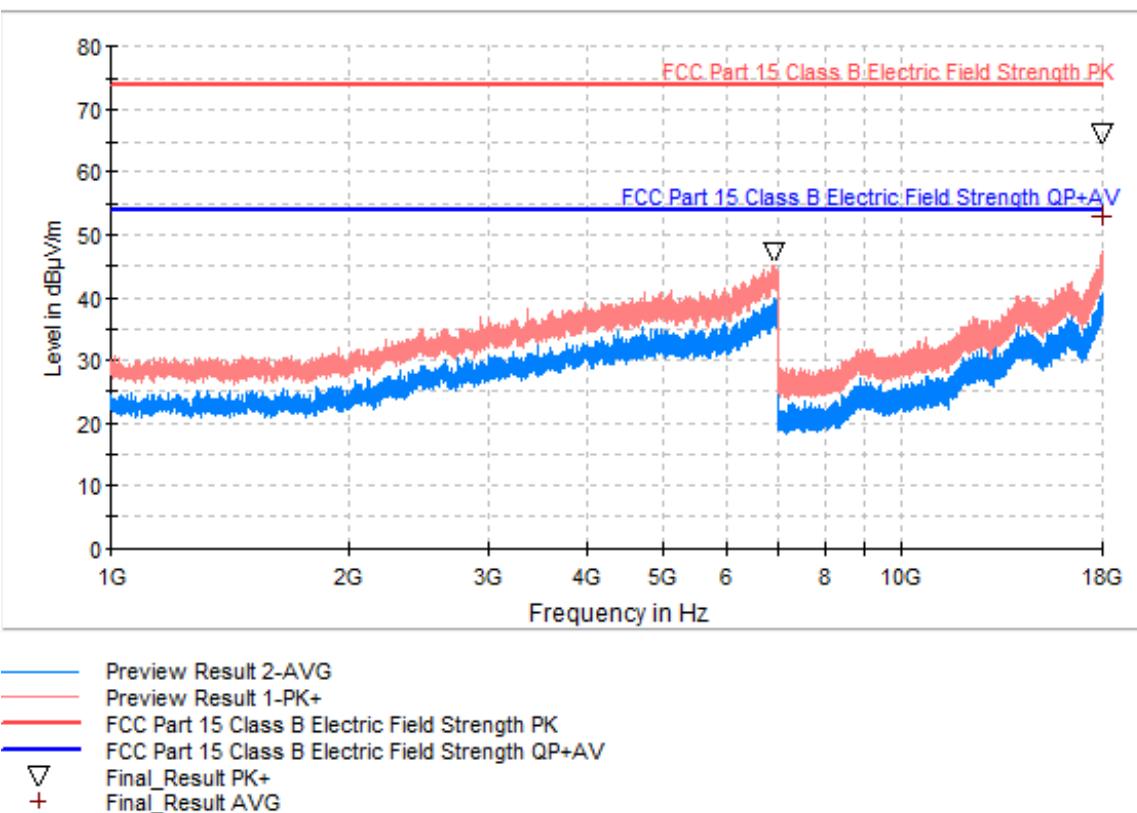


- Preview Result 1-PK+
- FCC Part 15 Class B Electric Field Strength QP+AV
- Final\_Result QPK
- Final\_Result PK+

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	MaxPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
36.195500	18.53	29.22	40.00	21.47	122.0	V	132.0
95.714500	12.32	24.07	43.50	31.18	235.0	H	-70.0
241.514500	19.37	31.72	46.00	26.63	237.0	V	91.0
404.360500	24.43	36.55	46.00	21.57	125.0	H	-131.0
706.942000	32.67	44.62	46.00	13.33	114.0	V	103.0
808.457000	32.43	44.17	46.00	13.57	234.0	V	113.0

TEST RESULTS (Cont.):

CR0101HR



Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
6893.200000	47.34	---	73.90	26.56	180.0	H	37.0
17994.490000	66.10	---	73.90	7.80	129.0	H	-7.0
17996.193200	---	52.86	53.90	1.04	136.0	H	82.0
17998.860000	---	52.86	53.90	1.04	210.0	H	53.0