RF Exposure Evaluation Report

Applicant:	Arrival LTD
Address of Applicant:	Beaumont House, Kensington Village, London, W14 8TSб

Equipment Under Test (EUT)

Product Name:	Key Fob
Model No.:	KF10
Trade mark:	ARRIVAL
FCC ID:	2A7RQ-KF10
Applicable standards:	FCC CFR Title 47 Part 2 Subpart J Section 2.1093
Date of sample receipt:	28 Jun., 2022
Date of Test:	29 Jun., to 22 Jul., 2022
Date of report issue:	22 Jul., 2022
Test Result:	PASS*

Authorized Signature:

Bruce Zhang
Laboratory Manager

2 Version

Version No.	Date	Description
00	*22 Jul., 2022*	*Original*

Tested by: Mike.ou ***Date:*** *22 Jul., 2022*

Test Engineer

Reviewed by: Winner Zhang ***Date:*** *22 Jul., 2022*

Project Engineer

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4 General Information

4.1 Client Information

Applicant:	Arrival LTD
Address:	Beaumont House, Kensington Village, London, W14 8TSб
Manufacturer/Factory:	Arrival LTD
Address:	Beaumont House, Kensington Village, London, W14 8TSб

4.2 General Description of E.U.T.

Product Name:	Key Fob
Model No.:	KF10
Operation Frequency:	BLE: 2402MHz~2480MHz UWB: CH5: 6498.6MHz, CH6: 6988.8MHz CH8: 7488.8MHz,CH9: 7987.2 MHz
Modulation technology:	BLE: GFSK,UWB
Antenna Type:	Internal Antenna
Antenna gain:	BLE: 0 dBi,UWB: 0 dBi
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

4.3 Operating Modes

Operating mode	Detail description
BLE mode	Keep the EUT in continuously transmitting in BLE mode
UWB mode	Keep the EUT in continuously transmitting in UWB mode

4.4 Additions to, deviations, or exclusions from the method

No

4.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

4.6 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.
Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info-JYTee@lets.com, Website: http://jyt.lets.com

5 Technical Requirements Specification in FCC CFR Title 47 Part 2.1093

5.1 Limits

According to 447498 D01 General RF Exposure Guidance v06 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.
The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

5.2 Result

Frequency (MHz)	Output power (dBm)	Gain (dBi)	E.I.R.P (dBm)	Distance (mm)	Max. tune-up Power (dBm)	Max. Power (mW)
BLE						
2480.00	-0.909	0	-0.909	5.00	-0.5	0.89
6.4986	-6.56	0	-6.56	5.00	-6.0	0.25

Note:Peak Power= -31.0(dBm/3MHz)= -15.36(dBm/50MHz)

5.3 Conclusion

The device is exempt from the SAR test and satisfies RF exposure evaluation.

------End of report------