

TEST REPORT

Applicant: ARMOR Technologies, Inc.
Address: 411 Walnut St., #20470, Green Cove Springs,
FL, 32043-3443
Equipment Type: Asset Management Device
Model Name: ARMOR 4+
Brand Name: ARMOR
FCC ID: 2BSOO-ARMOR4P
Test Standard: 47 CFR Part 2.1091
KDB 447498 D04 v01
Sample Arrival Date: N/A
Test Date: N/A
Date of Issue: Dec. 08, 2025

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center



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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Dec. 08, 2025</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	3
1.1	Test Laboratory	3
1.2	Test Location	3
2	PRODUCT INFORMATION	4
2.1	Applicant Information.....	4
2.2	Manufacturer Information	4
2.3	General Description for Equipment under Test (EUT)	4
2.4	Technical Information	5
3	SUMMARY OF TEST RESULT	6
3.1	Test Standards.....	6
3.2	Limit Standards	6
4	DEVICE CATEGORY AND LEVELS LIMITS	7
5	ASSESSMENT RESULT	9
5.1	Output Power	9
5.2	Tune-up power	10
5.3	RF Exposure Evaluation Result.....	11
5.4	Collocated Power Calculation.....	12
5.5	Conclusion	12

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 29671.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	ARMOR Technologies, Inc.
Address	411 Walnut St., #20470, Green Cove Springs, FL,32043-3443

2.2 Manufacturer Information

Manufacturer	ARMOR Technologies, Inc.
Address	411 Walnut St., #20470, Green Cove Springs, FL,32043-3443

2.3 General Description for Equipment under Test (EUT)

EUT Name	Asset Management Device
Model Name Under Test	ARMOR 4+
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.01
Software Version	R00A01V08
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	2G Network GPRS/EGPRS 850/1900 MHz 4G Network CAT-M: B2/B4/B5/B12/B13/B25/B66/B85 NB-IoT: B2/B4/B5/B12/B13/B25/B66/71/B85 Bluetooth, 2.4G WIFI GPS, GLONASS, BDS, Galileo
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, LTE, Bluetooth, 2.4 WIFI		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE CAT-M B2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE CAT-M B4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE CAT-M B5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE CAT-M B12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE CAT-M B13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE CAT-M B25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	LTE CAT-M B66	TX: 1710 ~ 1780 MHz	RX: 2135 ~ 2155 MHz
	LTE CAT-M B85	TX: 698 ~ 716 MHz	RX: 728 ~ 746 MHz
	LTE NB-IoT B2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE NB-IoT B4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE NB-IoT B5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE NB-IoT B12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE NB-IoT B13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE NB-IoT B25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	LTE NB-IoT B66	TX: 1710 ~ 1780 MHz	RX: 2135 ~ 2155 MHz
	LTE NB-IoT B71	TX: 663~ 698MHz	RX: 617 ~ 652 MHz
	LTE NB-IoT B85	TX: 698 ~ 716 MHz	RX: 728 ~ 746MHz
	802.11b/g /n(HT20/HT40)	2412 ~ 2462 MHz	
	Bluetooth	2402 ~ 2480 MHz	
Antenna Type	WWAN	PIFA Antenna	
	Bluetooth	Chip Antenna	
	WIFI	Chip Antenna	
Exposure Category	General Population/Uncontrolled Exposure		
Product Type	Mobile Device		

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01

3.2 Limit Standards

No.	Identity	Document Title
1	47 CFR Part 2.1091	Radiofrequency radiation exposure evaluation: mobile devices

4 DEVICE CATEGORY AND LEVELS LIMITS

Mobile Devices:

CFR Title 47 §2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

FCC KDB 447498 D04 General RF Exposure Guidance v01 Limit

Evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i. e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).
The example values shown in Table B.2 are for illustration only.

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 ASSESSMENT RESULT

5.1 Output Power

GSM					
Mode	Burst Average Power(dBm)		Division	Frame-Averaged power (dBm)	
	GSM 850	GSM 1900	Factors	GSM 850	GSM 1900
GPRS (GMSK, 1-Slot)	33.30	30.89	9.19	24.11	21.70
GPRS (GMSK, 2-Slots)	31.76	29.42	6.13	25.63	23.29
GPRS (GMSK, 3-Slots)	29.87	28.38	4.42	25.45	23.96
GPRS (GMSK, 4-Slots)	28.41	26.96	3.18	25.23	23.78
EGPRS (8PSK, 1-Slot)	27.57	25.82	9.19	18.38	16.63
EGPRS (8PSK, 2-Slots)	26.48	24.95	6.13	20.35	18.82
EGPRS (8PSK, 3-Slots)	25.24	23.19	4.42	20.82	18.77
EGPRS (8PSK, 4-Slots)	23.98	22.19	3.18	20.80	19.01
Antenna Gain (dB)	-0.76	-1.20	N/A	-0.76	-1.20

Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC2140498-501(G1) for more details.

LTE CAT-M								
Mode	Band 2	Band 4	Band 5	Band 12	Band 13	Band 25	Band 66	Band 85
Conducted Power (dBm)	22.98	22.79	22.80	22.80	22.66	24.65	22.48	22.49
Antenna Gain (dBi)	-1.20	-0.90	-0.76	-3.00	-0.81	-1.20	-0.90	-2.40
EIRP/ERP (dBm)	21.78	21.89	19.89	17.65	19.70	21.30	21.58	17.94

Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC2140498-501(G1) for more details.

LTE NB-IoT									
Mode	Band 2	Band 4	Band 5	Band 12	Band 13	Band 25	Band 66	Band 71	Band 85
Conducted Power (dBm)	22.4	22.39	22.40	22.34	22.37	24.45	22.31	21.88	22.29
Antenna Gain (dBi)	-1.20	-0.90	-0.76	-3.00	-0.81	-1.20	-0.90	-4.10	-2.40
EIRP/ERP (dBm)	21.20	21.49	19.49	17.19	19.41	21.10	21.41	15.63	17.74

Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-EC2140498-501(G1) for more details.

Bluetooth		
Mode	BLE 1M	BLE 2M
Conducted Power (dBm)	9.51	9.63
Antenna Gain (dBi)	3.52	3.52
EIRP (dBm)	13.03	13.15
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-SZ2591451-601 for more details.		

WLAN	
Mode	2.4G WIFI
Conducted Power (dBm)	23.06
Antenna Gain (dBi)	3.52
EIRP (dBm)	26.58
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-SZ2591451-602 for more details.	

5.2 Tune-up power

Mode		Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
GSM	GSM 850	【25.00,27.00】	/	【22.09,24.09】
	GSM 1900	【23.00,25.00】	【21.80,23.80】	【19.65,21.65】
LTE CAT-M	Band 2	【22.00,24.00】	【20.80,22.80】	【18.65,20.65】
	Band 4	【22.00,24.00】	【21.10,23.10】	【18.95,20.95】
	Band 5	【22.00,24.00】	/	【19.09,21.09】
	Band 12	【22.00,24.00】	/	【16.85,18.85】
	Band 13	【22.00,24.00】	/	【19.04,21.04】
	Band 25	【24.00,26.00】	【22.80,24.80】	【20.65,22.65】
	Band 66	【21.00,23.00】	【20.10,22.10】	【17.95,19.95】
	Band 85	【21.00,23.00】	/	【16.45,18.45】
LTE NB-IoT	Band 2	【21.00,23.00】	【19.80,21.80】	【17.65,19.65】
	Band 4	【21.00,23.00】	【20.10,22.10】	【17.95,19.95】
	Band 5	【21.00,23.00】	/	【18.09,20.09】
	Band 12	【21.00,23.00】	/	【15.85,17.85】
	Band 13	【21.00,23.00】	/	【18.04,20.04】
	Band 25	【23.00,25.00】	【21.80,23.80】	【19.65,21.65】
	Band 66	【21.00,23.00】	【20.10,22.10】	【17.95,19.95】
	Band 71	【21.00,23.00】	/	【14.75,16.75】
	Band 85	【21.00,23.00】	/	【16.45,18.45】
Bluetooth		【9.00,11.00】	【12.52,14.52】	【10.37,12.37】
WIFI		【22.00,24.00】	【25.52,27.52】	【23.37,25.37】
Note1: ERP= EIRP -2.15dB.				

Note2: According KDB 447498 D04, used the greater of maximum conducted power and ERP to compare with the threshold value Pth.

5.3 RF Exposure Evaluation Result

Evolution mode		Frequency (MHz)	Distance (cm)	Maximum power Tune up(dBm)	Maximum power (mw)	Threshold Power (mW)	P/Plimit	Verdict
GSM	GSM850	824	20	27.00	501.19	1680.96	0.2982	Pass
	GSM1900	1850	20	25.00	316.23	3060.00	0.1033	Pass
LTE CAT-M	Band 2	1850	20	24.00	251.19	3060.00	0.0821	Pass
	Band 4	1710	20	24.00	251.19	3060.00	0.0821	Pass
	Band 5	824	20	24.00	251.19	1680.96	0.1494	Pass
	Band 12	699	20	24.00	251.19	1425.96	0.1762	Pass
	Band 13	777	20	24.00	251.19	1585.08	0.1585	Pass
	Band 25	1850	20	26.00	398.11	3060.00	0.1301	Pass
	Band 66	1710	20	23.00	199.53	3060.00	0.0652	Pass
	Band 85	698	20	23.00	199.53	1423.92	0.1401	Pass
LTE NB-IoT	Band 2	1850	20	23.00	199.53	3060.00	0.0652	Pass
	Band 4	1710	20	23.00	199.53	3060.00	0.0652	Pass
	Band 5	824	20	23.00	199.53	1680.96	0.1187	Pass
	Band 12	699	20	23.00	199.53	1425.96	0.1399	Pass
	Band 13	777	20	23.00	199.53	1585.08	0.1259	Pass
	Band 25	1850	20	25.00	316.23	3060.00	0.1033	Pass
	Band 66	1710	20	23.00	199.53	3060.00	0.0652	Pass
	Band 71	663	20	23.00	199.53	1352.52	0.1475	Pass
	Band 85	698	20	23.00	199.53	1423.92	0.1401	Pass
Bluetooth		2402	20	12.37	17.26	3060.00	0.0056	Pass
2.4G WIFI		2412	20	25.37	344.35	3060.00	0.1125	Pass

5.4 Collocated Power Calculation

Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power / Limit})$ of WWAN + WLAN	Verdict
GSM850	824MHz ~ 849 MHz	0.2982	0.4107	Pass
2.4G WLAN	2412MHz ~ 2462MHz	0.1125		

Note:

1. $\Sigma(\text{Power / Limit})$: This is a summation of [(power for each transmitter/ antenna included in the simultaneous transmission)/ (corresponding Power limit)], for WWAN+ WLAN.
2. Both of the WWAN+ WLAN can transmit simultaneously, the formula of calculated the Power is $CP1 / LP1 + CP2 / LP2 + \dots \text{etc.} < 1$
 CP = Calculation power
 LP = Limit of power
3. The worst-case situation is 0.4107, which is less than "1". This confirmed that the device comply with FCC KDB 447498 D04 Power limit.
4. More power list please refer to RF test report.

5.5 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
3. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the test report stamp.
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5. This report shall not be partially reproduced without the written permission of the Testing Center.
6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--