

TEST REPORT

Applicant: WalTech International Inc
Address: P O Box 244, Kiel WI- 53042 USA
Equipment Type: WalTech UST
Model Name: WLTUST03
Brand Name: N/A
FCC ID: 2BTPW-WLTUST03
Test Standard: 47 CFR Part 2.1091
KDB 447498 D04 v01
Sample Arrival Date N/A
Test Date: N/A
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ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center.

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(Laboratory Manager)

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Jan. 19, 2026</u>	<u>Initial Issue</u>

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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	WalTech International Inc
Address	P O Box 244, Kiel WI- 53042 USA

2.2 Manufacturer Information

Manufacturer	WalTech International Inc
Address	P O Box 244, Kiel WI- 53042 USA

2.3 General Description for Equipment under Test (EUT)

EUT Name	WalTech UST
Model Name Under Test	WLTUST03
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	3
Software Version	16.31.36 (m0.stm.esp)
Dimensions (Approx.)	5.5 in (L) x 3.25 in (W) x 1.25 in (H)
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	LTE(Cat M1/NB2) Cat-M:B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 27/ 28/ 66/ 85 Cat-NB:B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 28/ 66/ 71/ 85 2.4G WIFI BLE Zigbee
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	LTE, 2.4GWIFI, BLE, Zigbee		
Frequency Range	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	LTE Band 26	TX: 814 ~ 849 MHz	RX: 859 ~ 894 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz

	LTE Band 71	TX: 663 ~ 698 MHz	RX: 617 ~ 652 MHz
	LTE Band 85	TX: 698 ~ 716 MHz	RX: 728 ~ 746 MHz
	2.4G WIFI	2412 ~ 2462 MHz	
	BLE	2402 ~ 2480 MHz	
	Zigbee	2400 to 2483.5MHz	
Antenna Type	WWAN: External Antenna WIFI: PCB Antenna Bluetooth: PCB 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	47 CFR Part 2.1091	Radiofrequency radiation exposure evaluation: mobile devices
2	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01

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

According with FCC KDB 447498 D04, Appendix A, Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

When maximum available power each individual transmitting antenna within the same time averaging period is ≤ 1 mW, and the nearest parts of the antenna structures of the simultaneously operating transmitters are separated by at least 2 cm.

When the aggregate maximum available power of all transmitting antennas is ≤ 1 mW in the same time-averaging period.

5 ASSESSMENT RESULT

5.1 Output Power

Cat-M									
Mode	Band 2	Band 4	Band 5	Band 12	Band 13	Band 25	Band 26	Band 66	Band 85
Conducted Power (dBm)	21.83	21.69	22.00	21.53	21.66	21.67	21.43	21.56	21.58
Antenna Gain (dBi)	-1.80	-1.80	-2.30	-5.40	-5.40	-1.80	-2.30	-1.80	-5.40
EIRP/ERP (dBm)	20.03	19.89	17.55	13.98	14.11	19.87	16.98	19.76	14.03
Note: This report listed the worst case conducted power value, please refer to RF test report No.R2106A0549-R1, R2106A0549-R2,R2106A0549-R3 and R2106A0549-R7 for more details.									

NB-IoT									
Mode	Band 2	Band 4	Band 5	Band 12	Band 13	Band 25	Band 66	Band 71	Band 85
Conducted Power (dBm)	21.01	21.08	20.65	20.62	20.93	21.02	21.13	21.92	20.78
Antenna Gain (dBi)	-1.80	-1.80	-2.30	-5.40	-5.40	-1.80	-1.80	-5.40	-5.40
EIRP/ERP (dBm)	19.21	19.28	16.20	13.07	13.38	19.22	19.33	14.37	13.23
Note: This report listed the worst case conducted power value, please refer to RF test report No.R2108A0735-R3 and R2108A0735-R4 for more details.									

WIFI				
Mode	802.11b	802.11g	802.11 n HT20	802.11 n HT40
Conducted Power (dBm)	22.77	25.56	25.32	25.22
Antenna Gain (dBi)	1.95	1.95	1.95	1.95
EIRP/ERP (dBm)	24.72	27.51	27.27	27.17
Note: This report listed the worst case conducted power value, please refer to RF test report No.FR1N0920B for more details.				

BLE		
Mode	BLE 1M	BLE 2M
Conducted Power (dBm)	-4.49	-3.27
Antenna Gain (dBi)	1.95	1.95
EIRP/ERP (dBm)	-2.54	-1.32
Note: This report listed the worst case conducted power value, please refer to RF test report No.BL-SH25A1142-601 for more details.		

Zigbee	
Mode	
Conducted Power (dBm)	2.60
Antenna Gain (dBi)	1.95
EIRP/ERP (dBm)	4.55
Note: This report listed the worst case conducted power value, please refer to RF test report No.BL-SH25A1142-602 for more details.	

5.2 Tune-up power

Mode	Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
Cat-M Band 2	【21.00,23.00】	【19.20,21.20】	【17.05,19.05】
Cat-M Band 4	【21.00,23.00】	【19.20,21.20】	【17.05,19.05】
Cat-M Band 5	【21.00,23.00】	【18.70,20.70】	【16.55,18.55】
Cat-M Band 12	【21.00,23.00】	【15.60,17.60】	【13.45,15.45】
Cat-M Band 13	【21.00,23.00】	【15.60,17.60】	【13.45,15.45】
Cat-M Band 25	【21.00,23.00】	【19.20,21.20】	【17.05,19.05】
Cat-M Band 26	【21.00,23.00】	【18.70,20.70】	【16.55,18.55】
Cat-M Band 66	【21.00,23.00】	【19.20,21.20】	【17.05,19.05】
Cat-M Band 85	【21.00,23.00】	【15.60,17.60】	【13.45,15.45】
NB-IoT Band 2	【20.00,22.00】	【18.20,20.20】	【16.05,18.05】
NB-IoT Band 4	【20.00,22.00】	【18.20,20.20】	【16.05,18.05】
NB-IoT Band 5	【20.00,22.00】	【17.70,19.70】	【15.55,17.55】
NB-IoT Band 12	【20.00,22.00】	【14.60,16.60】	【12.45,14.45】
NB-IoT Band 13	【20.00,22.00】	【14.60,16.60】	【12.45,14.45】
NB-IoT Band 25	【20.00,22.00】	【18.20,20.20】	【16.05,18.05】
NB-IoT Band 66	【20.00,22.00】	【18.20,20.20】	【16.05,18.05】
NB-IoT Band 71	【21.00,23.00】	【15.60,17.60】	【13.45,15.45】
NB-IoT Band 85	【20.00,22.00】	【14.60,16.60】	【12.45,14.45】
2.4G WIFI	【25.00,27.00】	【27.00,29.00】	【24.85,26.85】
Bluetooth	【-4.00,-2.00】	【-2.05,-0.05】	【-4.20,-2.20】
Zigbee	【2.00,4.00】	【3.95,5.95】	【1.80,3.80】
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		f(MHz)	Distance (cm)	Maximum power (dBm)	Maximum power (mW)	Threshold Power (mW)	P/Plimit	Verdict
LTE	Cat-M Band 2	1850	20	23.00	199.53	3060.00	0.0652	Pass
	Cat-M Band 4	1710	20	23.00	199.53	3060.00	0.0652	Pass
	Cat-M Band 5	824	20	23.00	199.53	1680.96	0.1187	Pass
	Cat-M Band 12	699	20	23.00	199.53	1425.96	0.1399	Pass
	Cat-M Band 13	777	20	23.00	199.53	1585.08	0.1259	Pass
	Cat-M Band 25	1850	20	23.00	199.53	3060.00	0.0652	Pass
	Cat-M Band 26	814	20	23.00	199.53	1660.56	0.1202	Pass
	Cat-M Band 66	1710	20	23.00	199.53	3060.00	0.0652	Pass
	Cat-M Band 85	698	20	23.00	199.53	1423.92	0.1401	Pass
	NB-IoT Band 2	1850	20	22.00	158.49	3060.00	0.0518	Pass
	NB-IoT Band 4	1710	20	22.00	158.49	3060.00	0.0518	Pass
	NB-IoT Band 5	824	20	22.00	158.49	1680.96	0.0943	Pass
	NB-IoT Band 12	699	20	22.00	158.49	1425.96	0.1111	Pass
	NB-IoT Band 13	777	20	22.00	158.49	1585.08	0.1000	Pass
	NB-IoT Band 25	1850	20	22.00	158.49	3060.00	0.0518	Pass
	NB-IoT Band 66	1710	20	22.00	158.49	3060.00	0.0518	Pass
	NB-IoT Band 71	663	20	23.00	199.53	1352.52	0.1475	Pass
	NB-IoT Band 85	698	20	22.00	158.49	1423.92	0.1113	Pass
2.4G WIFI		2412	20	27.00	501.19	3060.00	0.1638	Pass
Bluetooth		2402	20	-2.00	0.63	3060.00	0.0002	Pass
Zigbee		2405	20	4.00	2.51	3060.00	0.0008	Pass

5.4 Collocated Power Density Calculation

Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of WWAN + WLAN	Verdict
NB-IoT Band 71	663 ~ 698 MHz	0.1475	0.3113	Pass
2.4G WLAN	2412 ~ 2462 MHz	0.1638		

Note:

- $\Sigma(\text{Power} / \text{Limit})$: This is a summation of [(power for each transmitter/ antenna included in the simultaneous transmission)/ (corresponding Power limit)], for WWAN + WLAN or WWAN + BT or WWAN + Zigbee.
- Both of the WWAN + WLAN or WWAN + BT 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 0.3113, 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.
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6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--