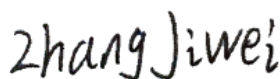


TEST REPORT

Applicant: MediaTek Inc.
Address: No. 1, Dusing 1st Rd., Hsinchu Science Park
Hsinchu City 30078 Taiwan
Equipment Type: 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Model Name: MT7925B22M
Brand Name: N/A
FCC ID: RAS-MT7925B22M
ISED Number: 7542A-MT7925B22M
Test Standard: KDB 388624 D02 v18
RSS-102 Issue 6
Sample Arrival Date: Oct. 28, 2024
Test Date: Nov. 19, 2024
Date of Issue: Dec. 10, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Zhang Jiwei**Checked by:** Xu Rui**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Dec. 10, 2024</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The laboratory is a testing organization accredited by ISED as a accredited testing laboratory. The company number is 11524A and CAB identifier number is CN0030.

1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	MediaTek Inc.
Address	No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City 30078 Taiwan

2.2 Manufacturer Information

Manufacturer	MediaTek Inc.
Address	No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City 30078 Taiwan

2.3 General Description for Equipment under Test (EUT)

EUT Name	2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Model Name Under Test	MT7925B22M
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.3.1 Host Information:

Product Name	Notebook Computer
Model Name	Yoga 7 2-in-1 16ILL10
Brand Name	Lenovo

2.3.2 Antenna Information:

Antenna Port	Model Name	Antenna Manufacturer	Antenna Type	Antenna Gain (dBi)								
				2.4 GHz	5.15-5.25 GHz	5.25-5.35 GHz	5.47-5.725 GHz	5.725-5.895 GHz	5.925-6.425 GHz	6.425 - 6.525 GHz	6.525 - 6.875 GHz	6.875 - 7.125 GHz
Main Antenna	AYL6Y-100054	AWAN	PIFA	1.26	1.47	1.05	3.32	2.98	3.13	3.21	3.21	2.95
Auxiliary Antenna	AYL6Y-100055		PIFA	1.23	-0.32	0.73	3.10	3.16	3.37	3.01	3.35	2.79
Main Antenna	L01RF456-NB-H	Luxshare-ICT	PIFA	-0.32	1.44	1.44	2.38	3.04	2.49	2.07	2.78	2.43
Auxiliary Antenna	L01RF455-NB-H		PIFA	-0.58	-0.27	0.46	2.79	3.17	3.33	2.73	2.65	1.54

2.4 Ancillary Equipment

Note: Not applicable.

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, VHT, 802.11ac, 802.11ax and 802.11be
-----------------------------------	---

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	2.4G WLAN; 5G WLAN; 6G WLAN; Bluetooth	
Frequency Range	802.11b/g	2412 ~ 2472 MHz
	VHT20/VHT40	2412 ~ 2472 MHz
	802.11ax(HE20/HE40)	2412 ~ 2472 MHz
	802.11be(EHT20/EHT40)	2412 ~ 2472 MHz
	802.11a	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11n(HT20/HT40)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ac(VHT20/VHT40/VHT80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ax(HE20/HE40/HE80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11be(EHT20/EHT40/EHT80)	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
		5815 ~ 5885 MHz
	802.11ac(VHT160)/ 802.11ax(HE160)/ 802.11be(EHT160)	5150 ~ 5250 MHz
		5470 ~ 5725 MHz
		5815 ~ 5885 MHz
		5925 ~ 6425 MHz

	802.11ax(HE20/HE40/HE80/HE160)	6425 ~ 6525 MHz
		6525 ~ 6875 MHz
	802.11be(EHT20/EHT40/EHT80/EHT160)	6875 ~ 7125 MHz
	Bluetooth	2402 ~ 2480 MHz
Antenna Type	WLAN	PIFA
	Bluetooth	PIFA
Hotspot Function	N/A	
Exposure Category	General Population/Uncontrolled exposure	
Product Type	Portable Device	
EUT Type	☒ Production unit	☐ Identical prototype

2.6 Remarks and Comments

The test report is validation of the G sensor functionality.

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	KDB 388624 D02 v18	Pre-Approval Guidance List v18, PRE-APPROVAL GUIDANCE LIST
2	RSS-102 Issue 6	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

3.2 Test Results Summary

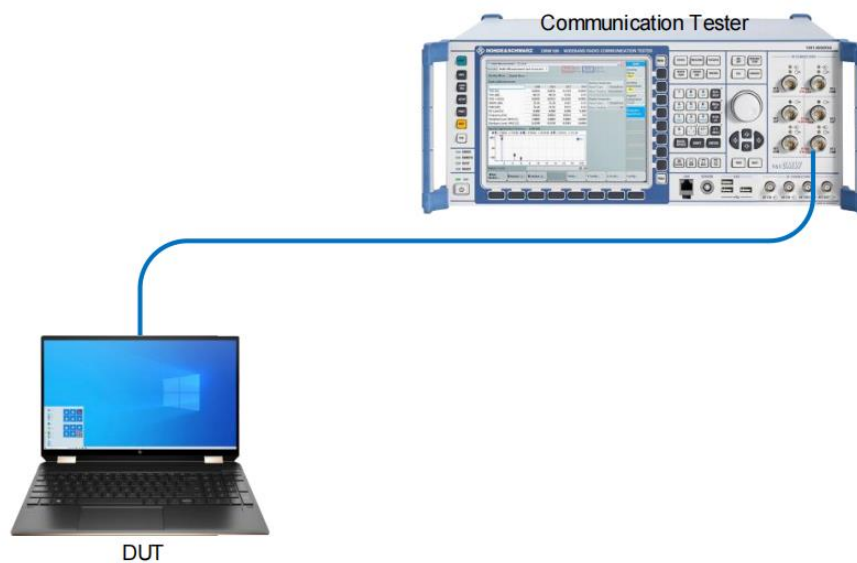
Device Mode	Lid Angle range	WLAN 2.4GHz (802.11b Channel 6)				WLAN 5GHz (802.11ac80 Channel 58)				WLAN 6GHz (802.11ax160 Channel 111)			
		Tune-up Power (dBm)		Measured Power (dBm)		Tune-up Power (dBm)		Measured Power (dBm)		Tune-up Power (dBm)		Measured Power (dBm)	
		Main. Antenna	Aux. Antenna	Main. Antenna	Aux. Antenna	Main. Antenna	Aux. Antenna	Main. Antenna	Aux. Antenna	Main. Antenna	Aux. Antenna	Main. Antenna	Aux. Antenna
Laptop	0° - 350°	16.00	16.00	15.38	15.58	13.00	11.00	12.87	10.58	11.50	10.00	11.18	9.38
Tablet	350° - 360°	15.50	15.50	14.88	15.07	11.00	9.00	10.88	8.52	8.50	8.00	8.28	7.36

4 MEASUREMENT SYSTEM

4.1 Conducted Power Test Setup

The conducted power measurement test setup is described in the following and illustrated in below figure.

1. The DUT is convertible PC from Lenovo . The connectivity module is installed.
2. A control PC is used to configure the call box as an access point to manage the uplink and downlink data traffic.
3. Uplink signal power is measured with the Call Box.
4. Path loss in the power measurement setup from the wireless module antenna port to the Call Box.



4.2 G-Sensor Conducted Power Test Procedure

The following additional guidance applies only to convertible laptops whose screen rotates around one axis, from 0 degrees to 360 degrees, in a clamshell style, i.e., from closed mode to open mode, to “tent” mode, and finally, to tablet mode. This process must be followed to determine the lid angle where a power reduction occurs, by taking power measurements at each step, as indicated in the step listed here below:

1. From the lid in closed mode (0 degrees), open the screen in 10-degree steps until laptop mode is obtained.
2. Lower the screen by 5 degrees increments to verify that the “closed mode” is triggered.
3. From the position of the previous step, open the screen in 1-degree increments until laptop mode is triggered again.
4. Continue opening the screen in 1-degree increments until at least 5 degrees past where “laptop mode” was obtained, then continue opening the screen in 10-degree steps until the device switches to tablet mode.
5. Reverse the previous procedure to go from tablet mode back down to closed mode.

5 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Communication Tester	Rohde &Schwartz	CMW500	167190	2024/5/8	2025/5/7
RF Cable	N/A	N/A	N/A	N/A	N/A
Note: RF cable loss was verified before usage.					

ANNEX A CONDUCTED POWER TEST RESULT

A.1 Trigger lid angle detection and power verification 2.4GHz

A.1.1 The lid is rotating from 0° to 360°

Mode	Angle (degrees)	Measured Power	
		2.4GHz 802.11b Ch6	
		(dBm)	
		Main	Aux.
Laptop	0	15.13	15.57
	10	15.13	15.54
	20	15.12	15.58
	30	15.18	15.43
	40	15.35	15.52
	50	15.34	15.32
	60	15.26	15.47
	70	15.18	15.45
	80	15.37	15.44
	90	15.36	15.31
	100	15.17	15.37
	110	15.23	15.54
	120	15.22	15.39
	130	15.12	15.32
	140	15.38	15.32
	150	15.36	15.51
	160	15.35	15.38
	170	15.11	15.54
	180	15.20	15.33
	190	15.35	15.48
	200	15.36	15.35
	210	15.31	15.44
	220	15.17	15.32
	230	15.11	15.33
	240	15.22	15.34
	250	15.20	15.41
	260	15.28	15.44
	270	15.38	15.43
	280	15.32	15.37
	290	15.36	15.34

	300	15.17	15.35
	310	15.15	15.49
	320	15.36	15.55
	330	15.26	15.42
	340	15.25	15.54
Tablet	350	14.63	15.07
Laptop	345	15.22	15.48
	346	15.25	15.47
	347	15.20	15.41
	348	15.19	15.31
	349	15.19	15.56
Tablet	350	14.65	15.02
	351	14.83	15.04
	352	14.69	14.98
	353	14.86	14.86
	354	14.88	14.97
	355	14.83	14.91
	360	14.88	15.05

A.1.2 The lid is rotating from 360° to 0°

Mode	Angle (degrees)	Measured Power	
		2.4GHz 802.11b Ch6	
		(dBm)	
		Main	Aux.
Tablet	360	14.69	15.00
	350	14.87	14.98
Laptop	340	15.19	15.36
	345	15.29	15.56
Tablet	350	14.87	14.94
Laptop	349	15.26	15.49
	348	15.17	15.42
	347	15.24	15.36
	346	15.36	15.46
	345	15.29	15.35
	340	15.24	15.56
	330	15.15	15.55
	320	15.36	15.55
	310	15.18	15.31
	300	15.24	15.54
	290	15.24	15.45
	280	15.23	15.41
	270	15.27	15.41
	260	15.22	15.45
	250	15.32	15.47
	240	15.27	15.52
	230	15.27	15.55
	220	15.18	15.41
	210	15.17	15.41
	200	15.13	15.31
	190	15.18	15.48
	180	15.19	15.57
	170	15.13	15.45
	160	15.15	15.51
	150	15.30	15.56
	140	15.11	15.57
	130	15.31	15.33
	120	15.24	15.50
	110	15.17	15.53

	100	15.20	15.58
	90	15.33	15.54
	80	15.11	15.35
	70	15.18	15.56
	60	15.31	15.56
	50	15.27	15.35
	40	15.12	15.39
	30	15.32	15.51
	20	15.16	15.41
	10	15.36	15.49
	0	15.11	15.48

A.2 Trigger lid angle detection and power verification 5GHz

A.2.1 The lid is rotating from 0° to 360°

Mode	Angle (degrees)	Measured Power	
		5GHz 802.11ac80 Ch58	
		(dBm)	
		Main	Aux.
Laptop	0	12.75	10.48
	10	12.66	10.50
	20	12.81	10.47
	30	12.68	10.50
	40	12.77	10.46
	50	12.82	10.50
	60	12.81	10.51
	70	12.73	10.57
	80	12.86	10.46
	90	12.68	10.49
	100	12.84	10.44
	110	12.79	10.58
	120	12.80	10.49
	130	12.65	10.35
	140	12.74	10.45
	150	12.67	10.52
	160	12.81	10.57
	170	12.69	10.35
	180	12.64	10.45
	190	12.79	10.32
	200	12.70	10.34
	210	12.72	10.35
	220	12.63	10.32
	230	12.77	10.54
	240	12.71	10.45
	250	12.62	10.32
	260	12.61	10.44
	270	12.61	10.45
	280	12.62	10.58
	290	12.75	10.42
	300	12.70	10.45
	310	12.79	10.37

	320	12.61	10.48
	330	12.78	10.54
	340	12.62	10.48
Tablet	350	10.86	8.43
Laptop	345	12.64	10.44
	346	12.71	10.48
	347	12.72	10.40
	348	12.85	10.37
	349	12.66	10.32
Tablet	350	10.77	8.41
	351	10.75	8.52
	352	10.65	8.52
	353	10.65	8.34
	354	10.80	8.39
	355	10.66	8.40
	360	10.75	8.39

A.2.2 The lid is rotating from 360° to 0°

Mode	Angle (degrees)	Measured Power	
		5GHz 802.11ac80 Ch58	
		(dBm)	
		Main	Aux.
Tablet	360	10.75	8.31
	350	10.88	8.32
Laptop	340	12.63	10.47
	345	12.68	10.37
Tablet	350	10.79	8.50
Laptop	349	12.76	10.37
	348	12.80	10.37
	347	12.72	10.53
	346	12.86	10.52
	345	12.63	10.41
	340	12.61	10.56
	330	12.75	10.50
	320	12.78	10.50
	310	12.78	10.33
	300	12.85	10.33
	290	12.80	10.43
	280	12.76	10.47
	270	12.78	10.34
	260	12.87	10.45
	250	12.80	10.44
	240	12.72	10.37
	230	12.86	10.58
	220	12.78	10.50
	210	12.83	10.56
	200	12.78	10.58
	190	12.63	10.44
	180	12.84	10.48
	170	12.61	10.40
	160	12.83	10.43
	150	12.83	10.38
	140	12.81	10.37
	130	12.63	10.57
	120	12.87	10.48
	110	12.71	10.51

	100	12.76	10.56
	90	12.61	10.32
	80	12.86	10.32
	70	12.64	10.58
	60	12.68	10.54
	50	12.68	10.34
	40	12.75	10.58
	30	12.72	10.47
	20	12.75	10.46
	10	12.64	10.51
	0	12.61	10.46

A.3 Trigger lid angle detection and power verification 6GHz

A.3.1 The lid is rotating from 0° to 360°

Mode	Angle (degrees)	Measured Power	
		6GHz 802.11ax160 Ch111	
		(dBm)	
		Main	Aux.
Laptop	0	11.00	9.13
	10	11.18	9.27
	20	11.15	9.38
	30	10.98	9.23
	40	11.03	9.31
	50	10.93	9.12
	60	11.03	9.12
	70	10.95	9.13
	80	11.08	9.17
	90	11.09	9.14
	100	11.18	9.31
	110	11.09	9.36
	120	11.00	9.24
	130	11.08	9.12
	140	10.97	9.11
	150	11.14	9.20
	160	11.12	9.12
	170	11.09	9.36
	180	11.13	9.27
	190	11.00	9.28
	200	11.02	9.19
	210	11.10	9.16
	220	11.12	9.34
	230	11.00	9.31
	240	11.12	9.37
	250	10.95	9.26
	260	11.04	9.29
	270	11.02	9.28
	280	11.18	9.25
	290	10.98	9.18
	300	11.06	9.12
	310	11.01	9.34

	320	11.16	9.21
	330	11.00	9.30
	340	11.07	9.21
Tablet	350	8.26	7.16
Laptop	345	11.17	9.14
	346	11.18	9.34
	347	11.02	9.37
	348	11.03	9.22
	349	11.17	9.17
Tablet	350	8.09	7.36
	351	8.11	7.26
	352	8.23	7.36
	353	8.20	7.28
	354	8.16	7.34
	355	8.28	7.14
	360	8.07	7.28

A.3.2 The lid is rotating from 360° to 0°

Mode	Angle (degrees)	Measured Power	
		6GHz 802.11ax160 Ch111	
		(dBm)	
		Main	Aux.
Tablet	360	8.28	7.35
	350	8.15	7.17
Laptop	340	11.17	9.30
	345	11.02	9.19
Tablet	350	8.20	7.16
Laptop	349	10.96	9.33
	348	11.00	9.29
	347	10.96	9.25
	346	11.05	9.11
	345	11.07	9.24
	340	11.07	9.31
	330	10.99	9.33
	320	10.97	9.37
	310	11.08	9.30
	300	11.12	9.35
	290	11.14	9.23
	280	11.06	9.11
	270	10.94	9.25
	260	11.05	9.30
	250	10.91	9.25
	240	11.00	9.27
	230	11.14	9.20
	220	11.04	9.20
	210	11.16	9.36
	200	11.06	9.34
	190	11.13	9.38
	180	11.16	9.35
	170	11.13	9.17
	160	11.03	9.30
	150	11.18	9.36
	140	11.00	9.12
	130	11.10	9.24
	120	11.16	9.35
	110	11.09	9.19

	100	10.93	9.21
	90	11.03	9.34
	80	10.99	9.15
	70	11.08	9.25
	60	11.00	9.28
	50	11.07	9.25
	40	11.05	9.34
	30	11.02	9.28
	20	11.14	9.17
	10	10.99	9.17
	0	11.13	9.28

Statement

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