

RF Exposure Evaluation Report

Report Reference No...... : **MTEB26050044-H**

FCC ID..... : **A4C-1001BA**

Compiled by

(position+printed name+signature)..: File administrators Alisa Luo



Supervised by

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Approved by

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Date of issue..... : **May 09,2026**

Representative Laboratory Name. : **Shenzhen Most Technology Service Co., Ltd.**

Address..... : No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,
Nanshan, Shenzhen, Guangdong, China.

Applicant's name..... : **RM ACQUISITIONS LLC**

Address..... : 18022 Cowan Ste 185, Irvine, California 92614, United States

Test specification/ Standard..... : **47 CFR Part 1.1307;47 CFR Part 1.1310**
KDB447498D01 General RF Exposure Guidance v06

TRF Originator..... : Shenzhen Most Technology Service Co., Ltd.

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Test item description..... : GPS Device

Trade Mark..... : **RAND M^CNALLY**

Model/Type reference..... : RandTab8U

Listed Models : N/A

Modulation Type..... : GFSK, $\pi/4$ DQPSK, 8DPSK

802.11b: DSSS

802.11g/802.11n(H20)/802.11n(H40): OFDM
OFDM

Operation Frequency..... : BT: From 2402MHz to 2480MHz

WIFI2.4G: From 2412MHz to 2462MHz

WIFI 5G: From 5180MHz-5240MHz

From 5260MHz-5320MHz

From 5500MHz-5720MHz

From 5745MHz-5825MHz

Hardware Version..... : RAND TAB 7N-MT8365-01A-2

Software Version..... : RandTab8U-userdebug 13 TP1A.220624.014 RandTab8U_
mp_251224_6_release-keys

Rating..... : DC 3.7V by Battery

DC 5V by Car Charger

DC 5V by USB Port

Result..... : **PASS**

TEST REPORT

Equipment under Test : GPS Device

Model /Type : RandTab8U

Listed Models : N/A

Remark : N/A

Applicant : **RM ACQUISITIONS LLC**

Address : 18022 Cowan Ste 185, Irvine, California 92614, United States

Manufacturer : **SHEN ZHEN APICAL TECHNOLOGY CO., LTD**

Address : 9/F,B Building, Tinghua Unis Infoport, Langshan RD, North district, Hi-tech Industrial Park, Nanshan, Shenzhen

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2026.05.09	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.1.2 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$ Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.1.3 EUT RF Exposure

Antenna Gain: 1.8dBi
BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	2.76	2.76 ± 1	3.76
Middle(2441MHz)	2.18	2.18 ± 1	3.18
Highest(2480MHz)	2.68	2.68 ± 1	3.68

$\pi/4$ DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	3.62	3.62 ± 1	4.62
Middle(2441MHz)	3.01	3.01 ± 1	4.01
Highest(2480MHz)	3.58	3.58 ± 1	4.58

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-0.92	-0.92 ± 1	0.08
Middle(2441MHz)	-1.34	-1.34 ± 1	-0.34
Highest(2480MHz)	-0.74	-0.74 ± 1	0.26

Worst case: $\pi/4$ DQPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum Peak Conducted Output Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Lowest(2402MHz)	4.62	2.90	1.8	0.00087	1.0	Pass

Note: 1) Refer to report **MTEB26050044-R1** for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (2.90 \cdot 1.51) / (4 \cdot 3.1416 \cdot 20^2) = 0.00087$

Note: 3) EUT's Bluetooth module is more than 20cm away from the human body.

Antenna gain: 2dBi
WIFI 2.4G

802.11b			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412MHz)	14.55	14.55 ± 1	15.55
Middle(2437MHz)	14.25	14.25 ± 1	15.25
Highest(2462MHz)	14.71	14.71 ± 1	15.71

802.11g			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412MHz)	14.41	14.41 ± 1	15.41
Middle(2437MHz)	14.14	14.14 ± 1	15.14
Highest(2462MHz)	13.81	13.81 ± 1	14.81

802.11n(H20)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2412MHz)	14.04	14.04 ± 1	15.04
Middle(2437MHz)	13.74	13.74 ± 1	14.74
Highest(2462MHz)	14.13	14.13 ± 1	15.13

802.11n(H40)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2422MHz)	13.62	13.62 ± 1	14.62
Middle(2437MHz)	13.52	13.52 ± 1	14.52
Highest(2452MHz)	13.53	13.53 ± 1	14.53

WIFI 2.4G

Worst case: 802.11b						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Highest(2462MHz)	15.71	37.24	2	0.01171	1.0	Pass

Note: 1) Refer to report **MTEB26050044-R** for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (37.24 \cdot 1.58) / (4 \cdot 3.1416 \cdot 20^2) = 0.01171$

Note: 3) EUT's Wifi module is more than 20cm away from the human body.

WIFI 5G

Antenna gain: 4.2dBi

Mode	Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
IEEE 802.11a	5180	14.1382	14.1382±1	15.1382
	5200	14.6132	14.6132±1	15.6132
	5240	15.3181	15.3181±1	16.3181
	5260	16.1058	16.1058±1	17.1058
	5280	16.0758	16.0758±1	17.0758
	5320	15.7836	15.7836±1	16.7836
	5500	14.6181	14.6181±1	15.6181
	5600	15.0668	15.0668±1	16.0668
IEEE 802.11n_20	5700	13.8082	13.8082±1	14.8082
	5180	14.3767	14.3767±1	15.3767
	5200	14.5951	14.5951±1	15.5951
	5240	15.279	15.279±1	16.279
	5260	16.019	16.019±1	17.019
	5280	15.829	15.829±1	16.829
	5320	15.599	15.599±1	16.599
	5500	14.499	14.499±1	15.499
IEEE 802.11n_40	5600	14.9251	14.9251±1	15.9251
	5700	13.9716	13.9716±1	14.9716
	5190	10.8067	10.8067±1	11.8067
	5230	15.4162	15.4162±1	16.4162
	5270	16.299	16.299±1	17.299
	5310	12.029	12.029±1	13.029
	5510	10.669	10.669±1	11.669
IEEE 802.11ac_20	5590	15.3562	15.3562±1	16.3562
	5670	13.749	13.749±1	14.749
	5180	14.6467	14.6467±1	15.6467
	5200	14.5865	14.5865±1	15.5865
	5240	15.9136	15.9136±1	16.9136
	5260	16.0905	16.0905±1	17.0905
	5280	16.1137	16.1137±1	17.1137

	5320	15.7337	15.7337±1	16.7337
	5500	14.4348	14.4348±1	15.4348
	5600	15.2707	15.2707±1	16.2707
	5700	13.8637	13.8637±1	14.8637
IEEE 802.11ac_40	5190	10.5366	10.5366±1	11.5366
	5230	15.2792	15.2792±1	16.2792
	5270	16.5892	16.5892±1	17.5892
	5310	11.8192	11.8192±1	12.8192
	5510	10.5054	10.5054±1	11.5054
	5590	15.1455	15.1455±1	16.1455
	5670	13.6266	13.6266±1	14.6266
IEEE 802.11ac_80	5210	8.803	8.803±1	9.803
	5290	9.933	9.933±1	10.933
	5530	8.8054	8.8054±1	9.8054

Mode	Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
IEEE 802.11a	5745	15.3481	15.3481±1	16.3481
	5785	15.0232	15.0232±1	16.0232
	5825	13.8632	13.8632±1	14.8632
IEEE 802.11n_20	5745	15.1414	15.1414±1	16.1414
	5785	15.8914	15.8914±1	16.8914
	5825	14.7567	14.7567±1	15.7567
IEEE 802.11n_40	5755	15.2929	15.2929±1	16.2929
	5795	12.289	12.289±1	13.289
IEEE 802.11ac_20	5745	14.9683	14.9683±1	15.9683
	5785	15.8911	15.8911±1	16.8911
	5825	14.1288	14.1288±1	15.1288
IEEE 802.11ac_40	5755	16.5214	16.5214±1	17.5214
	5795	12.1466	12.1466±1	13.1466
IEEE 802.11ac_80	5775	9.9918	9.9918±1	10.9918

WIFI 5G U-NII 1

Worst case: IEEE 802.11n_40						
Channel	Maximum Peak Conducted Output Power	Maximum Peak Conducted Output Power	Antenna Gain	Power Density at R = 20 cm	Limit	Result
	(dBm)	(MW)	(dBi)	(mW/cm ²)		
(5230MHz)	16.4162	43.81	4.2	0.0229	1.0	Pass

Note: 1) Refer to report **MTEB26050044-R2** for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (43.81 * 2.63) / (4 * 3.1416 * 20^2) = 0.0229$

Note: 3) EUT's Wifi module is more than 20cm away from the human body.

WIFI 5G U-NII 2A

Worst case: IEEE 802.11ac_40						
Channel	Maximum Peak Conducted Output Power	Maximum Peak Conducted Output Power	Antenna Gain	Power Density at R = 20 cm	Limit	Result
	(dBm)	(MW)	(dBi)	(mW/cm ²)		
(5270MHz)	17.5892	57.40	4.2	0.0300	1.0	Pass

Note: 1) Refer to report **MTEB26050044-R2** for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (57.40 * 2.63) / (4 * 3.1416 * 20^2) = 0.0300$

Note: 3) EUT's Wifi module is more than 20cm away from the human body.

WIFI 5G U-NII 2C

Worst case: IEEE 802.11n_40						
Channel	Maximum Peak Conducted Output Power	Maximum Peak Conducted Output Power	Antenna Gain	Power Density at R = 20 cm	Limit	Result
	(dBm)	(MW)	(dBi)	(mW/cm ²)		
(5590MHz)	16.3562	43.21	4.2	0.0226	1.0	Pass

Note: 1) Refer to report **MTEB26050044-R2** for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (43.21 * 2.63) / (4 * 3.1416 * 20^2) = 0.0226$

Note: 3) EUT's Wifi module is more than 20cm away from the human body.

WIFI 5G U-NII 3

Worst case: IEEE 802.11ac_40						
Channel	Maximum Peak Conducted Output Power	Maximum Peak Conducted Output Power	Antenna Gain	Power Density at R = 20 cm	Limit	Result
	(dBm)	(MW)	(dBi)	(mW/cm ²)		
(5755MHz)	17.5214	56.51	4.2	0.0295	1.0	Pass

Note: 1) Refer to report **MTEB26050044-R2** for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (56.51 \cdot 2.63) / (4 \cdot 3.1416 \cdot 20^2) = 0.0295$

Note: 3) EUT's Wifi module is more than 20cm away from the human body.

LTE								
Band	Maximum tune-up Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
B2	23.89	23.89 ± 1	24.89	308.32	1.9	0.07546	1.0	Pass
B4	22.90	22.90 ± 1	23.90	245.47	1.8	0.05856	1.0	Pass
B66	23.49	23.49 ± 1	24.49	281.19	1.8	0.06709	1.0	Pass
B71	24.34	24.34 ± 1	25.34	341.98	-0.9	0.04393	0.41	Pass

Note: 1) Refer to report CTA26042301401 for EUT test Max Conducted average Output Power value for B2.

Note: 2) Refer to report CTA26042301402 for EUT test Max Conducted average Output Power value for B4.

Note: 3) Refer to report CTA26042301404 for EUT test Max Conducted average Output Power value for B66.

Note: 4) Refer to report CTA26042301405 for EUT test Max Conducted average Output Power value for B71.

Note: 5) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

Note: 6) EUT's WIFI module is more than 20cm away from the human body.