



RF EXPOSURE Test Report

Report No.: MTi240925018-01E5

Date of issue: 2024-11-12

Applicant: Beijing Cozyla Technology Ltd.

Product: Cozyla Calendar+ Go

Model(s): Cozyla CD-8S541P

FCC ID: 2BCES-CD8S541P

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>



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Test Result Certification	
Applicant:	Beijing Cozyla Technology Ltd.
Address:	Room A419 Building1, No. 12 Shangdi Information Road, Haidian District, Beijing PRC 100080
Manufacturer:	Beijing Cozyla Technology Ltd.
Address:	Room A419 Building1, No. 12 Shangdi Information Road, Haidian District, Beijing PRC 100080
Product description	
Product name:	Cozyla Calendar+ Go
Trademark:	N/A
Model name:	Cozyla CD-8S541P
Serial Model:	N/A
Standards:	N/A
Test procedure:	KDB 447498 D01 v06
Date of Test	
Date of test:	2024-11-04 to 2024-11-12
Test result:	Pass

Test Engineer	:	<i>James Qin</i>
		(James Qin)
Reviewed By	:	<i>David. Lee</i>
		(David Lee)
Approved By	:	<i>Leon Chen</i>
		(Leon Chen)



RF EXPOSURE EVALUATION

According to FCC 1.1310: 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 §1.1307(b)

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 Exposure				
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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

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 = Numeric gain of the antenna relative to isotropic antenna

π = 3.1415926

R = distance between observation point and center of the radiator in cm(20cm)

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

Measurement Result

BT&BLE:

Operation Frequency: 2402-2480MHz

ANT Gain: 2.74dBi

Power density limited: 1mW/ cm²

BR&EDR:

Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density Limits
		(dBm)		tune-up power		Gain		(mW/cm²)	(mW/cm²)
				(dBm)	(mW)	(dBi)	Numeric		
2402	GFSK	7.66	7±1	8	6.310	2.74	1.88	0.0024	1
2441		7.97	7±1	8	6.310	2.74	1.88	0.0024	1
2480		5.98	5±1	6	3.981	2.74	1.88	0.0015	1
2402	π/4-DQPSK	7.86	7±1	8	6.310	2.74	1.88	0.0024	1
2441		7.93	7±1	8	6.310	2.74	1.88	0.0024	1
2480		6.52	6±1	7	5.012	2.74	1.88	0.0019	1
2402	8DPSK	8.08	8±1	9	7.943	2.74	1.88	0.0030	1
2441		8.25	8±1	9	7.943	2.74	1.88	0.0030	1
2480		6.75	6±1	7	5.012	2.74	1.88	0.0019	1

BLE:

Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density Limits
		(dBm)		tune-up power		Gain			
				(dBm)	(mW)	(dBi)	Numeric	(mW/cm2)	(mW/cm2)
2402	GFSK-1M	-0.41	0±1	1	1.259	2.74	1.88	0.0005	1
2440		0.30	0±1	1	1.259	2.74	1.88	0.0005	1
2480		-1.76	-1±1	0	1.000	2.74	1.88	0.0004	1
2402	GFSK-2M	-0.54	0±1	1	1.259	2.74	1.88	0.0005	1
2440		0.12	0±1	1	1.259	2.74	1.88	0.0005	1
2480		-1.97	-1±1	0	1.000	2.74	1.88	0.0004	1

2.4G WIFI:

Operation Frequency: WIFI 802.11b/g/n HT20: 2412-2462MHz,

ANT Gain: 2.74dBi

 Power density limited: 1mW/ cm²

Channel Freq. (MHz)	modulation	conducted power	Tune-up power	Max		Antenna	Evaluation result at 20cm	Power density Limits
		(dBm)	(dBm)	tune-up power		Gain	Power density(mW/cm ²)	(mW/cm ²)
				(dBm)	(mW)	Numeric		
2412	802.11b	18.38	18±1	18	63.096	2.02	0.02539	1
2437		19.42	19±1	20	100.000	2.02	0.04025	1
2462		17.62	17±1	18	63.096	2.02	0.02539	1
2412	802.11g	24.28	24±1	25	316.228	2.02	0.12727	1
2437		24.77	24±1	25	316.228	2.02	0.12727	1
2462		23.15	23±1	24	251.189	2.02	0.10110	1
2412	802.11n H20	24.38	24±1	25	316.228	2.02	0.12727	1
2437		24.84	24±1	25	316.228	2.02	0.12727	1
2462		23.29	23±1	24	251.189	2.02	0.10110	1
2422	802.11n H40	24.03	24±1	25	316.228	2.02	0.12727	1
2437		24.43	24±1	25	316.228	2.02	0.12727	1
2452		23.90	23±1	24	251.189	2.02	0.10110	1

802.11a/n(HT20)/ac(HT20):

U-NII 1: 5180MHz to 5240MHz;

U-NII 3: 5745MHz to 5825MHz;

802.11n(HT40)/ac(HT40):

U-NII 1: 5190MHz to 5230MHz;

U-NII 3: 5755MHz to 5795MHz;

802.11ac(HT80):

U-NII 1: 5210MHz;

U-NII 3: 5775MHz

ANT Gain: U-NII Band 1: 3.46dBi; U-NII Band 3: 3.46dBi;

Power density limited: 1mW/ cm²

Channel Freq. (MHz)	modulation	conducted power	Tune-up power	Max		Antenna	Evaluation result at 20cm	Power density Limits
		(dBm)	(dBm)	tune-up power		Gain	Power density(mW/cm ²)	(mW/cm ²)
				(dBm)	(mW)	Numeric		
5180	11A	14.07	14±1	15	31.623	2.22	0.01049	1
5200		15.05	15±1	16	39.811	2.22	0.01320	1
5240		15.20	15±1	16	39.811	2.22	0.01320	1
5745		12.81	12±1	13	19.953	2.22	0.00662	1
5785		12.87	12±1	13	19.953	2.22	0.00662	1
5825		14.02	14±1	15	31.623	2.22	0.01049	1
5180	11N20SISO	14.05	14±1	15	31.623	2.22	0.01049	1
5200		14.97	14±1	15	31.623	2.22	0.01049	1
5240		15.34	15±1	16	39.811	2.22	0.01320	1
5745		11.86	11±1	12	15.849	2.22	0.00526	1
5785		12.35	12±1	13	19.953	2.22	0.00662	1
5825		14.91	14±1	15	31.623	2.22	0.01049	1
5190	11N40SISO	12.96	12±1	13	19.953	2.22	0.00662	1
5230		13.77	13±1	14	25.119	2.22	0.00833	1
5755		12.91	12±1	13	19.953	2.22	0.00662	1
5795		12.42	12±1	13	19.953	2.22	0.00662	1
5180	11AC20SISO	13.12	13±1	14	25.119	2.22	0.00833	1
5200		13.64	13±1	14	25.119	2.22	0.00833	1
5240		14.23	14±1	15	31.623	2.22	0.01049	1
5745		12.56	12±1	13	19.953	2.22	0.00662	1
5785		13.09	13±1	14	25.119	2.22	0.00833	1
5825		14.41	14±1	15	31.623	2.22	0.01049	1
5190	11AC40SISO	13.08	13±1	14	25.119	2.22	0.00833	1
5230		13.89	13±1	14	25.119	2.22	0.00833	1
5755		13.56	13±1	14	25.119	2.22	0.00833	1
5795		14.24	14±1	15	31.623	2.22	0.01049	1
5210	11AC80SISO	13.49	13±1	14	25.119	2.22	0.00833	1
5775		14.51	14±1	15	31.623	2.22	0.01049	1



Conclusion:

SIMULTANEOUS TRANSMISSIONS

When a number of sources at different frequencies, and/or broadband sources, contribute to the total exposure, it becomes necessary to weigh each contribution relative to the MPE. To comply with the MPE, the fraction of the MPE in terms of E2, H2 (or power density) incurred within each frequency interval should be determined and the sum of all such fractions should not exceed unity. In order to ensure compliance with the MPE for a controlled environment, the sum of the ratios of the power density to the corresponding MPE should not exceed unity. That is

$$\sum_{i=1}^n \frac{S_i}{MPE_i} \leq 1$$

Simultaneous transmit:

Operating Band	The MPE ratio
BR&EDR	0.003
BLE	0.0005
2.4G WIFI	0.12727
5G WIFI	0.01320

So the simultaneous transmitting antenna pairs as below:

BR&EDR+5G WIFI=0.003+0.01320=0.0162

BR&EDR+2.4G WIFI=0.003+0.12727=0.13027

BLE+5G WIFI = 0.0005+ 0.01320=0.0137

BLE+2.4G WIFI = 0.0005+ 0.12727=0.12777

For the max result: 0.13027≤ 1.0, No SAR is required.

----END OF REPORT----