RF Exposure Evaluation

1. Client Information

FCC ID: 2A8WK-CL-WA-01	Anbore And tek anboret Anbor ok borek Anb
EUT ofek Anbors And	CATLINK AI Water Fountain-Pure2
Model Name	CL-WA-01, CL-WA-02, CL-WA-03, CL-WA-04, CL-WA-05,
Model Name	CL-WA-06, CL-WA-07, CL-WA-08, CL-WA-09
Frequency band (Operating)	BT: 2.402GHz ~ 2.480GHz
joi Ai sotek Anbotei	🛛 WLAN: 2.412GHz ~ 2.462GHz
nboten Anbe ek botek	WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz
hotek Anbote And	WLAN: 5.745GHz ~ 5825GHz
And ok botek Anbor	⊠ Others(175KHz)
Device category	Portable (<20cm separation)
K nbotek Anbo	Mobile (>20cm separation)
An An An	Others
Antenna diversity	Single antenna
	Multiple antennas
	Tx diversity
	Rx diversity
abotek Anbo, Ali	Tx/Rx diversity
Evaluation applied	MPE Evaluation
Anbo k hotek Anb	SAR Evaluation

2. The RF Exposure Evaluation for FCC

Single RF	Sources Exemptions:	An- poter	Anbo	Aupor Ar.								
Option	Refer Standard	Standard Exemption Exposure Thresholds										
A Anboter	§ 1.1307(b)(3)(i)(A)	The available maximum tir	me-averaged power is no	o more than 1 mW								
B Anbor	§ 1.1307(b)(3)(i)(B)	$(ERP_{20 \text{ cm}}(d/2$	$(0 \text{ cm})^x$ $d \le 20 \text{ cm}$	Anbotek								
otek Ant	oter Ant Anbotek	$P_{\rm th} (\rm mW) = \begin{cases} \\ ERP_{20} \rm cm \end{cases}$	$20 \text{ cm} < d \le 40$	cm ek Anbotek								
Anbotek	Anbotek Anbotek	$\chi = -\log_{10}\left(\frac{60}{ERP_{20}\mathrm{cm}\sqrt{f}}\right)$	Anbotek Anbotek									
Anboten	K Anbotek Anbote	$ERP_{20 \text{ cm}} (\text{mW}) = \begin{cases} 2040f \\ 3060 \end{cases}$	$0.3 \text{ GHz} \le f < 1.5 \text{ GHz}$ $1.5 \text{ GHz} \le f \le 6 \text{ GHz}$									
C Anto	§ 1.1307(b)(3)(i)(C)	RF Source frequency (MHz)	Threshold ERP (watts)	Anbotek Anbotek								
Anubotek	Anbotek Anbor	0.3-1.34	1,920 R ² .	Anbo, An								
Ano	anbotek Anbor	1.34-30	3,450 R ² /f ² .	Anbor Ar								
Anbo	tek Anbotek Anbr	30-300	3.83 R ² .	K Anboto A								
rek Anbe	An wotek	300-1,500	0.0128 R ² f.	otek Anbotek								
Notek A	boten Anbo	1,500-100,000	19.2R ² .	tek abotek								
Hay	abotek Anbors	f is in MHz, R is in meter	rs, R>λ/2π	Anboit k hotek								

Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 0755–26066440 Fax:(86) 0755–26014772 Email:service@anbotek.com Hotline 400–003–0500 www.anbotek.com.cn





Example power threshold for separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive).

bu.	V.	100	able B.	2—Ex	ample	Power	Thresh	nolds (m	וW)	711.	1		
	Distance (mm)												
6		5	10	15	20	25	30	35	40	45	50		
(Z	300	39	65	88	110	129	148	166	184	201	217		
(ZHM)	450	22	44	67	89	112	135	158	180	203	226		
	835	9	25	44	66	90	116	145	175	207	240		
Frequency	1900	3	12	26	44	66	92	122	157	195	236	100	
nbə	2450	3	10	22	38	59	83	111	143	179	219	3	
Fre	3600	2	8	18	32	49	71	96	125	158	195		
-	5800	1	6	14	25	40	58	80	106	136	169	1	

Table B.2—Example Power Thresholds (mW)

Simultaneous Transmission SAR Test Exemption:

Refer Standard	Exemption Exposure Thresholds
§ 1.1307(b)(3)(ii)(A)	The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required).
§ 1.1307(b)(3)(ii)(B)	$\sum_{i=1}^{a} \frac{P_i}{P_{\text{th},i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{\text{th},j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$
	a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for <i>Pth</i> , including existing exempt transmitters and those being added.
	b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.
	c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.
	Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source <i>i</i> at a distance between 0.5 cm and 40 cm (inclusive).
	<i>Pth,i</i> = the exemption threshold power (<i>Pth</i>) according to paragraph (b)(3)(i)(B of this section for fixed, mobile, or portable RF source <i>i</i> .
k Anbote, And otek Anbotek Anbo botek Anbotek An	<i>ERPj</i> = the ERP of fixed, mobile, or portable RF source <i>j</i> . <i>ERPth,j</i> = exemption threshold ERP for fixed, mobile, or portable RF source <i>j</i> , at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph

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(b)(3)(i)(C) of this section.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.

Calculation:

N	le. VUP		NO.		r	N.	100	0.00	
ration: 20cm		- atek	Anboi	by.	-ak	abo ^{ter}	AND		tek (
Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	ERP (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mW)	Option	Limit P _{th} (mW)
2402	2.63	-0.68	1.95	-0.20	±1 bot	0.80	1.202	B	3060
2441	3.85	-0.68	3.17	1.02	±1	2.02	1.592	B	3060
2480	4.67	-0.68	3.99	1.84	ter ±1 An	2.84	1.923	Boile	3060
2412	15.98	-0.68	15.30	13.15	tel±1	14.15	26.002	B	3060
2437	15.79	-0.68	15.11	12.96	±1	13.96	24.889	В	3060
2462	16.46	-0.68	15.78	13.63	±1	14.63	29.040	BM	3060
2412	16.48	-0.68	15.80	13.65	±1 tek	14.65	29.174	, B	3060
2437	16.42	-0.68	15.74	13.59	±1	14.59	28.774	В	3060
2462	16.25	-0.68	15.57	13.42	±1,1001	14.42	27.669	botB	3060
2412	16.67	-0.68	15.99	13.84	±1	14.84	30.479	Brok	3060
2437	16.57	-0.68	15.89	13.74	±1 A	14.74	29.785	PUB	3060
2462	17.10	-0.68	16.42	14.27	ote ^k ±1	15.27	33.651	Babo	3060
	Frequency (MHz) 2402 2441 2480 2412 2437 2462 2412 2437 2462 2412 2437 2462 2412 2437	Frequency (MHz)Conducted Power (dBm)24022.6324413.8524804.67241215.98243715.79246216.46241216.48243716.42246216.57246316.57	Frequency (MHz)Conducted Power (dBm)Gain (dBi)24022.63-0.6824022.63-0.6824413.85-0.6824804.67-0.68241215.98-0.68243715.79-0.68246216.46-0.68243716.42-0.68243716.42-0.68246216.25-0.68241216.67-0.68243716.57-0.68243716.57-0.68243716.57-0.68243716.57-0.68243716.57-0.68	Frequency (MHz)Conducted Power (dBm)Gain (dBi)EIRP (dBm)24022.63-0.681.9524413.85-0.683.1724804.67-0.683.99241215.98-0.6815.30243715.79-0.6815.11246216.46-0.6815.78241216.42-0.6815.74246216.25-0.6815.74243716.67-0.6815.99243716.67-0.6815.99243716.57-0.6815.99	Frequency (MHz)Conducted Power (dBm)Gain (dBi)EIRP (dBm)ERP (dBm)24022.63-0.681.95-0.2024413.85-0.683.171.0224804.67-0.683.991.84241215.98-0.6815.3013.15243715.79-0.6815.1112.96246216.46-0.6815.7813.63241216.48-0.6815.7413.59246216.25-0.6815.7413.59246216.25-0.6815.7713.42241216.67-0.6815.9913.84243716.57-0.6815.9913.74	Frequency (MHz)Conducted Power (dBm)Gain (dBi)EIRP (dBm)ERP (dBm)Turn-up Power tolerance (dB)24022.63-0.681.95-0.20±124413.85-0.683.171.02±124804.67-0.683.991.84±1241215.98-0.6815.3013.15±1243715.79-0.6815.1112.96±1246216.46-0.6815.7813.63±1243716.42-0.6815.7413.59±1243716.42-0.6815.7713.42±1241216.67-0.6815.9913.84±1243716.57-0.6815.9913.74±1243716.57-0.6815.8913.74±1	Frequency (MHz)Conducted Power (dBm)Gain (dBi)EIRP (dBm)ERP (dBm)Turn-up Power (dBm)Max power of tune up tolerance (dB)24022.63-0.681.95-0.20±10.8024413.85-0.683.171.02±12.0224804.67-0.683.991.84±12.84241215.98-0.6815.3013.15±114.15243715.79-0.6815.1112.96±113.96246216.46-0.6815.7813.63±114.63243716.42-0.6815.7413.59±114.59246216.25-0.6815.7713.42±114.42241216.67-0.6815.9913.84±114.84243716.57-0.6815.9913.74±114.74	Frequency (MHz)Conducted Power (dBm)Gain (dBi)EIRP (dBm)ERP (dBm)Turn-up Power (dBm)Max power of tune up tolerance (dB)Max power of tune up tolerance (dBm)24022.63-0.681.95-0.20±10.801.20224413.85-0.683.171.02±12.021.59224804.67-0.683.991.84±12.841.923241215.98-0.6815.3013.15±114.1526.002243715.79-0.6815.7112.96±113.9624.889246216.46-0.6815.7813.63±114.6329.040241216.48-0.6815.7413.59±114.6529.174243716.42-0.6815.5713.42±114.4227.669241216.67-0.6815.9913.84±114.8430.479243716.57-0.6815.8913.74±114.7429.785	Frequency (MHz)Conducted Power (dBm)Gain (dBi)EIRP (dBm)ERP (dBm)Turn-up Power (dBn)Max power of tune up tolerance (dBn)Max power of tune up tolerance (dBn)Option24022.63-0.681.95-0.20±10.801.202B24413.85-0.683.171.02±12.021.592B24804.67-0.683.991.84±12.841.923B241215.98-0.6815.3013.15±114.1526.002B243715.79-0.6815.1112.96±113.9624.889B246216.46-0.6815.7813.63±114.6329.040B243716.42-0.6815.7713.42±114.6529.174B246216.25-0.6815.5713.42±114.4227.669B241216.67-0.6815.9913.84±114.4430.479B243716.57-0.6815.9913.74±114.7429.785B243716.57-0.6815.8913.74±114.7429.785B

EIRP= Conducted Power(dBm)+Gain(dBi)

ERP(dBm)=EIRP(dBm)-2.15

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D04, No SAR is required.

Test se	eparation: 200	cm	+ex-	boter	And k sotek			Anbor print vek			bote
Test Mode	Frequency (MHz)	Max. output power (dBuV/m)	Power (dBm)	Gain (dBi)	EIRP (dBm)	ERP (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mW)	Option	Limit Pth(mW)
lo≫RF ID	0.175	70.59	-24.668	0	-24.67	-26.82	nbotek	-25.82	0.0026	A	nboten
	= Conducte	1		dBi)	PUDO	-alt	botek	Anbore	v pier	over	Anboten

ERP(dBm)=EIRP(dBm)-2.15

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D04, No SAR is required.

The 2.4G band and 175KHz function can not simultaneous transmitting.

---END OF REPORT---

Shenzhen Anbotek Compliance Laboratory Limited

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