



## SAR Exclusion Report

Applicant	Blue Ops Ltd.
Applicant Address	7 Shmuel Hanagid St., Raanana 4342004, Israel
Product	Dry Fire System
FCC ID	2BCGGXM1
Standard(s)	47CFR15 Section 15.247
Test Report No.	Ra271900.01

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## 1 EUT Information

Model No.	xMAG
Antenna type	Integral
Antenna gain	+3.3 dBi
Assigned frequency range	ISM
Operating frequency range	2.4GHz
Transmit power (conducted)	-1.4 dBm
Modulation bandwidth	2 MHz
Bit rate	1 Mbit/s
Distance from human body (min.)	8 mm

## 2 Evaluation Method and Limits

### 2.1 Limits

For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

### 2.2 SAR assessment

$$-1.4 \text{ dBm}/8 \cdot \sqrt{2.4 \text{ (GHz)}} = -1.4/8 \cdot 1.55 = -0.113$$



## Appendix A

### *SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and $\leq 50$ mm*

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	<i>SAR Test Exclusion Threshold (mW)</i>
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	mm
150	232	271	310	349	387	<i>SAR Test Exclusion Threshold (mW)</i>
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	
1500	73	86	98	110	122	
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	

## 3 Conclusion

The measurement results comply with the limits per the abovementioned FCC requirements.

**End of Report**