



MAXLAB Testing Co.,Ltd.

Report No.: MAX25110200P01-R01RF

RF TEST REPORT

Report Reference No..... : MAX25110200P01-R01RF

FCC ID..... : 2BTI7-COMMANDO14

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Applicant's name..... : Huizhou iFlight intelligent Technology Co., LTD

Address..... : F2, F5-F6, Building B2, Galaxy IMC, Beixin Road, No.6, Zhongkai Avenue, Huizhou 516006, Guangdong, CHINA

Test specification..... :

Standard..... : FCC 1.1310

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Test item description..... : remote control Commando 14

Trade Mark..... : iFlight

Manufacturer..... : Huizhou iFlight intelligent Technology Co., LTD

Model/Type reference..... : Commando 14

Listed Models : Commando 14 Lite, Commando 14 PRO

Modulation Type..... : GFSK, π /4DQPSK, 8-DPSK
CCK/ DSSS/ OFDM
FSK

Operation Frequency..... : From 2402MHz to 2480MHz
From 2412-2462MHz
From 903MHz-927MHz

Rating..... : DC 5-20V

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



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RF EXPOSURE EVALUATION METHOD

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)

EUT Specification

Frequency band (Operating)	☒ WLAN: 2.412GHz ~ 2.462GHz ☐ WLAN: 5.150GHz ~ 5.250GHz ☐ WLAN: 5.725GHz ~ 5.850GHz ☒ BT:2402-2480MHz ☒ Others :903-927MHz
Device category	☒ Portable (<20cm separation) ☐ Mobile (>20cm separation) ☐ Others
Exposure classification	☒ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
Antenna diversity	☐ Single antenna ☒ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Max. output power	7.856dBm (0.0061W) 92.20dBuV/m (LORA)
Antenna gain (Max)	2.36 dBi (LORA) 2.81 dBi (WIFI)
Evaluation applied	☐ MPE Evaluation ☒ SAR Evaluation

RF EXPOSURE EVALUATION METHOD

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
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	

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Maximum measured transmitter power.

BR/EDR+BLE

Operating Mode	Frequency	Measured Power	max. power	Antenna Gain	min. test separation distance	[$\sqrt{f}$ (GHz)]	Result	Limit
	(MHz)	(dBm)	(mW)	(dBi)	(mm)			
GFSK	2402	3.92	2.47	2.81	5	1.550	0.7644	3
	2441	3.15	2.07	2.81	5	1.562	0.6454	3
	2480	3.36	2.17	2.81	5	1.575	0.6827	3
$\pi/4$ DQPSK	2402	5.02	3.18	2.81	5	1.550	0.9847	3
	2441	4.20	2.63	2.81	5	1.562	0.8219	3
	2480	4.48	2.81	2.81	5	1.575	0.8836	3
8-DPSK	2402	5.20	3.31	2.81	5	1.550	1.0264	3
	2441	4.43	2.77	2.81	5	1.562	0.8666	3
	2480	4.70	2.95	2.81	5	1.575	0.9295	3
GFSK	2402	3.81	2.40	2.81	5	1.550	0.7453	3
	2440	2.90	1.95	2.81	5	1.562	0.6093	3
	2480	3.21	2.09	2.81	5	1.575	0.6596	3

WiFi 2.4G

Operating Mode	Frequency	Measured Power	max. power	Antenna Gain	min. test separation distance	[$\sqrt{f}$ (GHz)]	Result	Limit
	(MHz)	(dBm)	(mW)	(dBi)	(mm)			
802.11b	2412	7.856	6.10	2.81	5	1.553	1.8959	3
	2437	7.652	5.82	2.81	5	1.561	1.8183	3
	2462	7.415	5.51	2.81	5	1.569	1.7305	3
802.11g	2412	6.524	4.49	2.81	5	1.553	1.3951	3
	2437	6.354	4.32	2.81	5	1.561	1.3485	3
	2462	6.241	4.21	2.81	5	1.569	1.3206	3
802.11n (HT20)	2412	5.421	3.48	2.81	5	1.553	1.0822	3
	2437	5.234	3.34	2.81	5	1.561	1.0420	3
	2462	5.324	3.41	2.81	5	1.569	1.0692	3
802.11n (HT40)	2422	3.854	2.43	2.81	5	1.556	0.7560	3
	2437	3.654	2.32	2.81	5	1.561	0.7242	3
	2452	3.421	2.20	2.81	5	1.566	0.6885	3

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

The test Result is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

LORA

Operating Mode	Frequency	Field strength	EIRP	Max tune-up	Antenna Gain	min. test separation distance	Result	Limit
	(MHz)	(dBuV/m @3)	(dBm)	(mW)	(dBi)	(mm)		
FSK	903	92.20	-7.76	0.167	2.36	5	0.0318	3
FSK	915	89.80	-10.16	0.096	2.36	5	0.0184	3
FSK	927	86.02	-13.94	0.040	2.36	5	0.0078	3

$$\text{EIRP} = E_{\text{Meas}} + 20 \log(d_{\text{Meas}}) - 109.5$$

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBuV/m

d_{Meas} is the measurement distance, in m

Bluetooth and WiFi cannot be transmitted simultaneously.

Simultaneous Transmission MPE Evaluation

$$\text{MPE}_{\text{WIFI2.4}} + \text{MPE}_{\text{BT}} + \text{MPE}_{\text{LORA}} = 1.8959 + 1.0264 + 0.0318 = 2.9541 < 3.0$$

Conclusion: No SAR is required.