

RF TEST REPORT

Report Reference No..... : MAX25061713-P01R01

FCC ID..... : 2BQIK-TX8

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Applicant's name..... : Shenzhen Yingying Trading Co., Ltd

Address.....: 206, Building 37, Yintian Industrial Zone, Yantian Community, Xixiang Street, Bao'an District, Shenzhen

Test specification..... :

Standard.....: FCC 1.1310

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Test item description..... : TV Stick

Trade Mark.....: N/A

Manufacturer.....: Shenzhen Yingying Trading Co., Ltd

Model/Type reference.....: TX8

Listed Models: Tanix TX1, TX1

Modulation Type.....: CCK/ DSSS/ OFDM

Operation Frequency.....: From 2412 - 2462MHz

Rating.....: DC 5V

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

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)	<input checked="" type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.150GHz ~ 5.250GHz <input type="checkbox"/> WLAN: 5.725GHz ~ 5.850GHz <input type="checkbox"/> Others BT:2402-2480MHz
Device category	<input checked="" type="checkbox"/> Portable (<20cm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Max. output power	8.421dBm (0.00695W)
Antenna gain (Max)	4.65dBi
Evaluation applied	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> 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.

Operating Mode	Frequency (MHz)	Measured Power (dBm)	max. power (mW)	Antenna Gain (dBi)	min. test separation distance (mm)	[$\sqrt{f(\text{GHz})}$]	Result	Limit
802.11b	2412	8.421	6.95	4.65	5	1.553	2.1593	3
	2437	8.241	6.67	4.65	5	1.561	2.0824	3
	2462	8.034	6.36	4.65	5	1.569	1.9956	3
802.11g	2412	7.562	5.70	4.65	5	1.553	1.7718	3
	2437	7.354	5.44	4.65	5	1.561	1.6977	3
	2462	7.241	5.30	4.65	5	1.569	1.6625	3
802.11n (HT20)	2412	6.562	4.53	4.65	5	1.553	1.4074	3
	2437	6.452	4.42	4.65	5	1.561	1.3793	3
	2462	6.321	4.29	4.65	5	1.569	1.3452	3
802.11n (HT40)	2422	4.526	2.84	4.65	5	1.556	0.8825	3
	2437	4.635	2.91	4.65	5	1.561	0.9077	3
	2452	4.248	2.66	4.65	5	1.566	0.8329	3

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 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 \leq 7.5 for 10-g extremity SAR.

Conclusion: No SAR is required.