

RF EXPOSURE EVALUATION METHOD

FCC ID: 2AW3E-A26

Applicable standard:

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEEC95.1-1992. and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

Per FCC KDB 447498 D01 v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances s 50 mm are determined by:

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.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
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	SAR Test Exclusion
1900	11	22	33	44	54	Threshold (mW)
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 \leq 50 mm are determined by:

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

f(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.

The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the [Σ of MPE ratios] is ≤ 1.0 .



T- AC6966B (U1)						
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict	
NVNT	1-DH1	2402	-2.13	21	Pass	
NVNT	1-DH1	2441	-2.51	21	Pass	
NVNT	1-DH1	2480	-1.81	21	Pass	
NVNT	2-DH1	2402	-2.81	21	Pass	
NVNT	2-DH1	2441	-1.66	21	Pass	
NVNT	2-DH1	2480	-1.16	21	Pass	
NVNT	3-DH1	2402	-3.04	21	Pass	
NVNT	3-DH1	2441	-1.12	21	Pass	
NVNT	3-DH1	2480	-0.67	21	Pass	

max possible output power (PK,conducted): 0±1dBm

-0.58dBm=0.87mW

2402MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] · [√f(GHz)]= 1.26/5*√2.402=0.391≤3.0

2441MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] · [√f(GHz)]= 1.26/5*√2.441=0.394≤3.0

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2480MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] · [√f(GHz)]= 1.26/5*√2.48=0.397≤3.0

BT- JL6976D (U4)

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	-1.62	21	Pass
NVNT	1-DH1	2441	-2.04	21	Pass
NVNT	1-DH1	2480	-2.77	21	Pass
NVNT	2-DH1	2402	-1.40	21	Pass
NVNT	2-DH1	2441	-1.46	21	Pass
NVNT	2-DH1	2480	-2.22	21	Pass

max possible output power (PK,conducted): -1±1dBm

-0.58dBm=0.87mW

2402MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] $\cdot [\sqrt{f(GHz)}] = 1/5^* \sqrt{2.402} = 0.31 \le 3.0$

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2441MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] $\cdot [\sqrt{f(GHz)}] = 1/5*\sqrt{2.441} = 0.312 \le 3.0$

2480MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] · [√f(GHz)]= 1.26/5*√2.48=0.315≤3.0

BT- JL6976D (U5)

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	-3.57	21	Pass
NVNT	1-DH1	2441	-3.75	21	Pass
NVNT	1-DH1	2480	-4.91	21	Pass
NVNT	2-DH1	2402	-2.80	21	Pass
NVNT	2-DH1	2441	-3.08	21	Pass
NVNT	2-DH1	2480	-4.19	21	Pass

max possible output power (PK,conducted): -2±1dBm

-0.58dBm=0.87mW

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2402MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] · [√f(GHz)]= 0.79/5*√2.402=0.245≤3.0

2441MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] · [√f(GHz)]= 1.26/5*√2.441=0.247≤3.0

2480MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] · [√f(GHz)]= 1.26/5*√2.48=0.249≤3.0

For the Max simultaneous transmission:

Evaluation mode	Result calculation	Total Result calculation	SAR Exclusion threshold	Result
BT- AC6966B (U1)	0.397		1.0	
BT- JL6976D (U4)	0.315	0.397/3+0.315/3+0.249/3=0.32		Pass
BT- JL6976D (U5)	0.249			



Conclusion:

For the max result : Max simultaneous transmission $0.32 \le FCC$ Limit 1.0 for 1g SAR, Maximum emission for a single function $0.397 \le FCC$ Limit 3.0 for 1g SAR