

RF Exposure Evaluation

Model Name : **N-Com Wireless Pro**
FCC ID : **S7A-SP206**

Device Category : **Portable device**
Separation distance : **See Table Below**

KDB 447498 - 4.3.1 a)

For 100 MHz to 6 GHz and test separation distances ≤ 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 ≤ 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

Modulation	Frequency (MHz)	Min. Test separation distance	Measured Maximum Average power	Turn-Up Power	Tune-up tolerance	Max. Power with tune-up tolerance		Standalone SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance ≤ 50 mm	Limit	Result
		(mm)	(dBm)	(dBm)	(dB)	(dBm)	(mW)			
BT1	2402	42.9	17.78	17.00	1.00	18.00	63.10	2.2794	3.00	PASS
	2441	42.9	17.45	17.00	1.00	18.00	63.10	2.2979	3.00	PASS
	2480	42.9	15.01	16.00	1.00	17.00	50.12	1.8398	3.00	PASS
BT2	2402	30.6	6.14	6.00	1.00	7.00	5.01	0.2538	3.00	PASS
	2441	30.6	6.40	6.00	1.00	7.00	5.01	0.2559	3.00	PASS
	2480	30.6	6.03	6.00	1.00	7.00	5.01	0.2579	3.00	PASS
MESH	2410	42.9	18.03	17.50	1.00	18.50	70.79	2.5618	3.00	PASS
	2445	42.9	17.50	17.50	1.00	18.50	70.79	2.5804	3.00	PASS
	2475	42.9	16.63	17.50	1.00	18.50	70.79	2.5962	3.00	PASS

KDB 447498 - 4.3.2 b)

When an antenna qualifies for the standalone SAR test exclusion of 4.3.1 and also transmits simultaneously with other antennas, the standalone SAR value must be estimated according to the following to determine the simultaneous transmission SAR test exclusion criteria:

1) $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/x}] \text{ W/kg}$, for test separation distances ≤ 50 mm;

where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR.

Modulation	Frequency (MHz)	Min. Test separation distance	Max. Power with tune-up tolerance		Estimated SAR, (x=7.5)	Simultaneous transmission SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance ≤ 50 mm	Limit	Result
		(mm)	(dBm)	(mW)	(W/kg)		(W/kg)	
BT1	2402 ~ 2480	42.90	18.00	63.10	0.31	0.6869	1.60	PASS
BT2	2402 ~ 2480	30.60	7.00	5.01	0.03			
Mesh	2410 ~ 2475	42.90	18.50	70.79	0.35			