

FCC RF EXPOSURE REPORT

FCC ID: QCI2075

Project No. : 1703C171
Equipment : LCD MONITOR
Model : SBD-2075
Applicant : SMART Technologies Inc.
Address : 3636 Research Road, Calgary NT AB T2L
1Y1,CANADA
According: : FCC Guidelines for Human Exposure IEEE
C95.1 & FCC Part 2.1091

B T L I N C .

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

BT/LE/WIFI 2.4G:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	FOXCONN ®	ANTS2M2-CZZ 02-EF	Internal	N/A	2.732

WIFI 5G:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	FOXCONN ®	ANTS2M2-CZZ 02-EF	Internal	N/A	3.07222	UNII-1
2	FOXCONN ®	ANTS2M2-CZZ 02-EF	Internal	N/A	2.07361	UNII-2A
3	FOXCONN ®	ANTS2M2-CZZ 02-EF	Internal	N/A	1.046	UNII-2C
4	FOXCONN ®	ANTS2M2-CZZ 02-EF	Internal	N/A	0.698066	UNII-3

TEST RESULTS

EUT :	LCD MONITOR	Model Name :	SBD-2075
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		

2.4G WIFI

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.732	1.8759	22.42	174.5822	0.06519	1	Complies

5G Band UNII-1

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.07222	2.0287	12.84	19.2309	0.00777	1	Complies

5G Band UNII-2A

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.07361	1.6120	12.84	19.2309	0.00617	1	Complies

5G Band UNII-2C

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.046	1.2723	12.27	16.8655	0.00427	1	Complies

5G Band UNII-3

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
0.698066	1.1744	8.92	7.7983	0.00182	1	Complies

BT

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.732	1.8759	8.77	7.5336	0.00281	1	Complies

LE

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.732	1.8759	3.02	2.0045	0.00075	1	Complies

For 2.4G+5G simultaneous transmission MPE:

$$0.06519/1+0.00777/1=0.07296$$

Note: the calculated distance is 20 cm.