



## RF exposure report

For

### KBX GROUP

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**FCC ID: 2AAPW-QD-705GR-TV**

2014-03-23

This Report Concerns:	Equipment Type:
Original Report	MID
Test Engineer:	
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## FCC §15.247 (i) & §2.1093 – RF EXPOSURE

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### Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance v05

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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:

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

### Result

According to FCC KDB 447498 D01 General RF Exposure Guidance v05 generic portable criteria

**Maximum measured transmitter power: 802.11b:**

Conducted Power (dBm)	Conducted Power (mw)	Max Antenna Gain (dBi)	EIRP (mw)
8.41	6.93	0	6.93

**Maximum measured transmitter power: 802.11g:**

Conducted Power (dBm)	Conducted Power (mw)	Max Antenna Gain (dBi)	EIRP (mw)
8.31	6.78	0	6.78

**Maximum measured transmitter power: 802.11n:**

Conducted Power (dBm)	Conducted Power (mw)	Max Antenna Gain (dBi)	EIRP (mw)
7.79	6.01	0	6.01

**Worse case is as below: [2462MHz 8.41dBm(6.93mW) output power]**

$(6.93\text{mW} / 5\text{mm}) \cdot [\sqrt{2.462(\text{GHz})}] = 2.175 < 3.0$  for 1-g SAR

**Then SAR evaluation is not required**