



CTC Laboratories, Inc.

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Maximum Permissible Exposure Evaluation

FCC ID: 2AYMH-PC160

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

| | |
|----------------------------|--|
| Product Name: | electronic shelf label |
| Trade Mark: | Hanshow |
| Model/Type reference: | Polaris-C-160R |
| Listed Model(s): | Polaris-C-160R-N |
| Frequency band (Operating) | 2.4G: 2402MHz ~ 2480MHz |
| Device category | <input type="checkbox"/> Portable (<5mm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Fixed (>20cm separation) <input type="checkbox"/> Others ____ |
| 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 |
| Antenna Gain (Max) | 0.85dBi |

Limit

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:

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

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 values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

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 according to 4.1 f) is applied to determine SAR test exclusion.

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Measurement Result

| Mode | Frequency (MHz) | Max. Measured Power (dBm) | Max. Tune up Power (dBm) | Result | Limit | Verdict |
|------|-----------------|---------------------------|--------------------------|---------|-------|---------|
| 2.4G | 2441 | -8.83 | -8 | 0.00004 | 1 | Pass |

The highest test data with is: 86.33dBuV/m @3m

$EIRP = 86.33 - 104.7 + 20\log^3 = -8.83\text{dBm}$

Note:

1. Calculate in the worst-case mode.
2. Max. Tune Up Power is declared by manufacturer, and used to calculate.
3. For a more detailed features description, please refer to the RF Test Report.

*****THE END*****