



13. Radio Frequency Exposure

13.1 Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in FCC Part 2 (Section 2.1091)

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

13.2 EUT Specification

Frequency band (Operating)	☐ WLAN: 2412MHz ~ 2462MHz ☐ WLAN: 5150MHz ~ 5250MHz ☐ WLAN: 5250MHz ~ 5350MHz ☐ WLAN: 5470MHz ~ 5725MHz ☐ WLAN: 5725MHz ~ 5850MHz ☒ Bluetooth: 2402MHz ~ 2480MHz
Device category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation)
Exposure classification	☐ Occupational/Controlled exposure ☒ General Population/Uncontrolled exposure
Antenna diversity	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Evaluation applied	☒ MPE Evaluation* ☐ SAR Evaluation ☐ N/A

Remark:

1. The maximum output power is 8.87 dBm (7.709mW) at 2480MHz (with 7.17 dBi antenna gain.)
2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.
3. For mobile or fixed location transmitters, no SAR consideration applied.

**13.3 Maximum Permissible Exposure**

Modulation Mode	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Max. Tune up e.r.p. Power (dBm)	Max. Tune up e.r.p. power (mW)	Limit (mW)
GFSK	2402-2480	8.87	9.37	7.17	14.39	27.48	3060
$\pi/4$ -DQPSK	2402-2480	6.99	7.49	7.17	12.51	17.82	3060
8DPSK	2402-2480	7.00	7.50	7.17	12.52	17.86	3060

Maximum Permissible Exposure (Co-location)

Beamforming

Modulation Type	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	MPE Ratio
GFSK	2480	8.87	9.37	7.17	14.39	27.48	3060.000	0.009
11ax HE20	5825	25.16	25.66	9.27	32.78	1896.71	3060.000	0.620
Co-location Total								0.629
Σ MPE ratios Limit								1

Beamforming

Modulation Type	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Max. Tune up e.r.p. Power (dBm)	Max. Tune up e.r.p. power (mW)	Limit (mW)	MPE Ratio
GFSK	2480	8.87	9.37	7.17	14.39	27.48	3060	0.009
11ax HE20	2437	24.56	25.06	10.41	33.32	2148.03	3060	0.702
Co-location Total								0.711
Σ MPE ratios Limit								1

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