



LCIE SUD EST
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FCCID: VPQ-EZ3NDTNFC

RF Exposure Information KDB 447498

Calculations:

For transmitter:	RFID on pixium 2430 EZ3 NDT	
Frequency:	13.56	MHz
Prediction distance:	20.00	cm (Portable:0.5cm / Mobile:20cm)
Output Power:	-34.43	at the antenna terminal (dBm)
Antenna gain(typical):	0.00	(dBi)
MPE limit for uncontrolled exposure at prediction frequency:	1.00	

Calculation:

Maximum peak output power at the antenna terminal:	-34.43	(dBm)
Maximum peak output power at the antenna terminal:	0.00	(mW)
Antenna gain(typical):	0.00	(dBi)
Maximum antenna gain:	1.00	(numeric)
Prediction distance:	20.00	(cm)
Prediction frequency:	13.56	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1.00	(mW/cm ²)

Power density at prediction frequency:	0.0000001	(mW/cm ²)
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For transmitter:	WIFI 2.4GHz (worst case)	
Frequency:	2480.00	MHz
Prediction distance:	0.50	cm (Portable:0.5cm / Mobile:20cm)
Output Power:	-3.49	at the antenna terminal (dBm)
Antenna gain(typical):	2.50	(dBi)
MPE limit for uncontrolled exposure at prediction frequency:	1.00	

Calculation:

Maximum peak output power at the antenna terminal:	-3.49	(dBm)
Maximum peak output power at the antenna terminal:	0.45	(mW)
Antenna gain(typical):	2.50	(dBi)
Maximum antenna gain:	1.78	(numeric)
Prediction distance:	20.00	(cm)
Prediction frequency:	2480.00	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1.00	(mW/cm ²)

Power density at prediction frequency:	0.00016	(mW/cm ²)
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Calculation : $(P_d(2.4\text{GHz}) / L_{P_d}(2.4\text{GHz})) + (P_d(\text{FM}) / L_{P_d}(\text{FM})) = 0.0141 \text{ mW/cm}^2 < 1$

Colocation:	0.00016	<1
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Conclusion:

The device complies with FCC's RF radiation exposure limit for general population as a **mobile** device (**d>20cm**) under the collocation conditions described above.