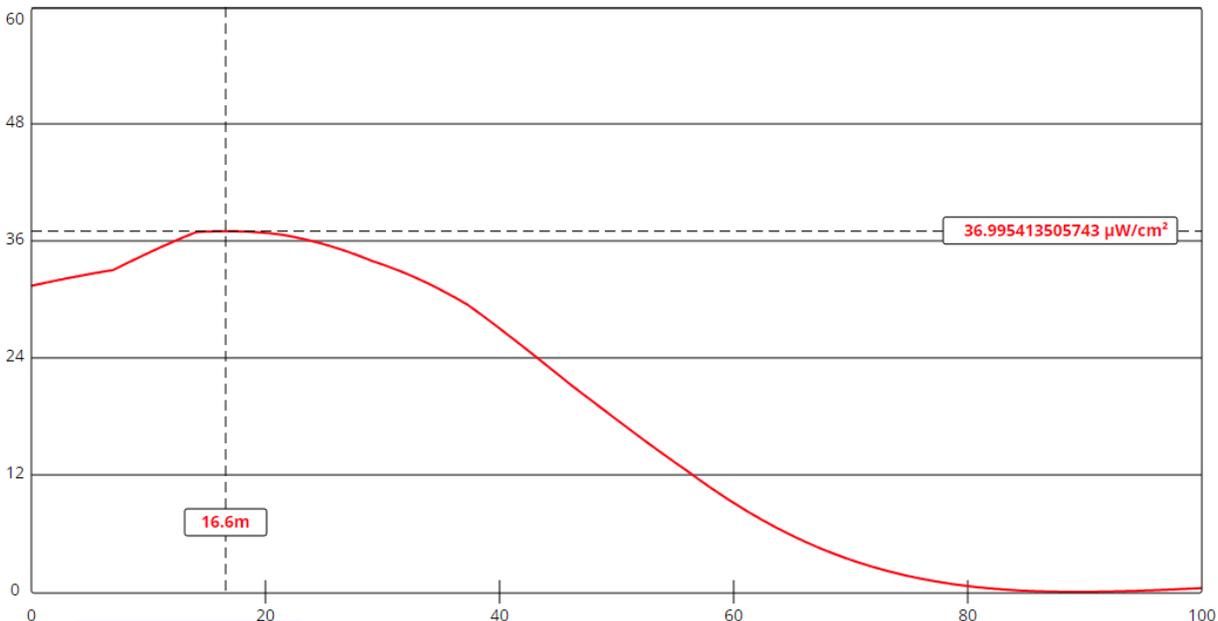


Power Density VS Distance
WNFK, Perry, FL FAC# 54918
December 2, 2023



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Channel Selection	Channel 221 (92.1 MHz) ▾		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other" ▾		
Height (m)	<input type="text" value="82"/>	Distance (m)	<input type="text" value="100"/>
ERP-H (W)	<input type="text" value="6000"/>	ERP-V (W)	<input type="text" value="6000"/>
Num of Elements	<input type="text" value="3"/>	λ	<input type="text" value="1"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	

USING A THREE ELEMENT, SHIVELY 6812-3, EPA TYPE 1 ANTENNA, AT FULL WAVE SPACING, FM MODEL PREDICTS A MAXIMUM POWER DENSITY OF 37.0 MICROWATTS PER SQUARE CENTIMETER AT A DISTANCE OF 16.6 METERS FROM THE TOWER. THIS REPRESENTS 18.5% OF THE 200 MICROWATS PER SQUARE CM LIMIT FOR GENERAL POPULATION EXPOSURE; HENCE, THIS APPLICATION IS COMPLIANT WITH THE GUIDELINES FOR HUMAN EXPOSURE AS SPECIFIED IN OET BULLETIN NO. 65, EDITION 97-01, AUGUST 1997. PLEASE REFER TO THE ATTACHED POWER DENSITY VS DISTANCE GRAPH.