

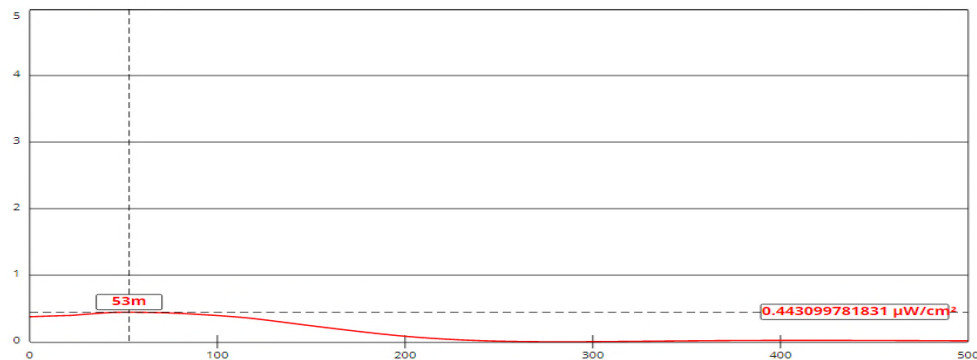
Columbus, OH - WLVQ(FM) (Digital Notification) Compliance with Radiofrequency Radiation Guidelines

The proposed facility complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments as set forth under §1.1307(b)(3) of the Commission's rules and the guidelines for RF radiation protection guidelines as set forth in OET Bulletin No. 65 (Edition 97-01), and the accompanying Supplement A, (Edition 97-01). The site is intended to house multiple transmitters, therefore the potential for human exposure to non-ionizing radiofrequency radiation has been evaluated with regard to the §1.1307(b)(3) "five percent (5%) contribution rule" utilizing the Commission's own FM Model web-based software application. The use and implementation of this FCC sanctioned software is a matter of record before the Commission.

With regard to the "five percent (5%) contribution rule", §1.1307(b)(3), five percent (5%) of the maximum permissible 200 $\mu\text{W}/\text{cm}^2$ uncontrolled limit yields a threshold value of 10 $\mu\text{W}/\text{cm}^2$. Five percent (5%) of the maximum permissible 1000 $\mu\text{W}/\text{cm}^2$ controlled limit yields a threshold value of 50 $\mu\text{W}/\text{cm}^2$. Therefore, single contributions of $\leq 10 \mu\text{W}/\text{cm}^2$ remain within the tolerances as allowed by §1.1307(b)(3) and its governing OET Bulletin No. 65 (Edition 97-01) for the more restrictive of either protection.

The WLVQ(FM) - Columbus, OH analog FM Station (Facility ID: 11277), operates on CH242B (96.3 MHz) with 18.0 kW ERP circular polarization (H&V). This facility operates with an antenna COR mounted 255 meters above ground level (AGL). The facility employs a three bay, ERI Model 1053-2CP antenna employing worst case EPA Type 1 elements as defined by the Commission's own FM Model - Appendix B (issued March 31, 2016). The antenna elements are spaced 1.0 wavelength (λ) apart. WLVQ(FM) operates with HD/IBOC facilities of -14 dBc power (0.720 kW ERP) circular polarization (H&V) (or $\text{Log}[0.04]*10 = -14 \text{ dBc}$) from the main antenna mounted 255 meters AGL. Therefore, this Form 335 Digital Notification RF Compliance Study has been conducted at a power of 0.720 kW (H&V) for the HD/IBOC contribution.

The results of the evaluation for the FM station have been shown at the end of this RF compliance discussion. To ensure complete protection, the maximum FM contribution has been assumed without regard to any restricted access fencing distance. In addition, the facility is, or will be, properly marked with signs. Entry is, or will be, restricted by means of fencing with locked doors or gates. Furthermore, coordination with other users of the site will be secured to reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.



[View Tabular Results +](#)

Channel Selection	Channel 242 (96.3 MHz) ▾		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other" ▾		
Height (m)	<input type="text" value="255"/>	Distance (m)	<input type="text" value="500"/>
ERP-H (W)	<input type="text" value="720"/>	ERP-V (W)	<input type="text" value="720"/>
Num of Elements	<input type="text" value="3"/>	Element Spacing (λ)	<input type="text" value="1"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	