

Broadcast Engineering Consultants 385 AIRPORT DRIVE – PO BOX 220 COLDWATER, MICHIGAN 49036-0220

TELEPHONE 517-278-7339 INTERNET www.munn-reese.com

September 30, 2022

Hello Broadcaster:

Re: NRSC Measurements for your station WSAM(AM).

Please find attached the AM Spectrum Analysis report for your station. This field measurement includes a check for compliance with the NRSC-2 Broadcast Transmission Bandwidth Specifications, along with the annual spurious and harmonic checks required for the station. A frequency measurement is also included. This information is to be kept on file with your Engineering records at the station in the event an FCC inspector requests it. No filing of this data with the FCC in Washington, D.C. is required.

I am pleased to report that the station passed all of the measurement tests for this calendar year. I am supplying you with an original PDF copy of the spectrum analyzer results. Feel free to make as many copies as deemed necessary.

If you have questions regarding this information, please do not hesitate to contact Mr. Ed Trombley, senior engineer, or myself.

Sincerely,

Bruce Bellamy, President

ENGINEERING REPORT OCCUPIED SPECTRUM ANALYSIS

CFR 47 §73.44 Compliance

WSAM(AM) - Saginaw, MI

1400 kHz

September 2022

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AM OCCUPIED SPECTRUM ANALYSIS

Station Data

Call: WSAM(AM) City of License: Saginaw, MI Frequency: 1400 kHz Operating Mode: ND1 Schedule: Unlimited Day Power: 1.0 kW Facility ID: 65930 Measurement Date: 09/21/2022

Discussion

The measurement data obtained for this report indicates the operation of WSAM(AM) to be IN COMPLIANCE with the provisions of CFR 47 §73.44 of the FCC rules regarding AM Broadcast Stations. Occupied Spectrum measurements were taken during the regular broadcast day by Edmond R. Trombley, staff engineer in the regular employ of Munn-Reese. In addition, spurious emission and harmonic measurements were made using a calibrated field strength meter. All measurements were made within 1 km of the transmitter, to provide sufficient signal to the analyzer.

Equipment employed

Anritsu MS2721B Spectrum Master. Technical specifications of the Anritsu MS2721B are available on the Internet at <u>www.anritsu.com</u>.

Potomac Instruments FIM-41, Field Meter, Serial No: 1149 Calibration Date: 06/24/2021. Technical specifications of the FIM-41 field intensity meter are available at <u>www.pi-usa.com</u>.

EXHIBITS

<u>Measured Carrier Frequency</u> – 1,399,993.362 Hz.

Figure A - Plot of Occupied Spectrum - Span 50 kHz

Figure B - Plot of Occupied Spectrum - Span 200 kHz

Figure C - Tabulation of Harmonic Measurement Data

HARMONIC MEASUREMENT DATA

Operating Power:	1.00 kW	
Required Attenuation:	-73.00 dB	
Fundamental Field:	2875 mV/M	
2nd. Harmonic:	0.024 mV/m	-101.57 dB below reference
3rd. Harmonic:	0.037 mV/m	-97.81 dB below reference

This report has been prepared by properly trained electronics specialists under the direction of the undersigned whose qualifications are a matter of record before the Federal Communications Commission. I declare under penalty of laws of perjury that the contents of this report are true and accurate to the best of my knowledge and belief.

By

Edmond R. Trombley, Senior Engineer



