

## KCFR and KVOD Spurious Emissions

March 27, 2018

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Measurements were made with an Anritsu model S322E Spectrum Analyzer at the output of the combining network.

Harmonics for KCFR (90.1MHz) were measured to 910.0MHz. All harmonics were below 80dB below carrier level.

Harmonics for KVOD (88.1MHz) were measured to 881.0MHz. All harmonics were below 76dB below carrier level.

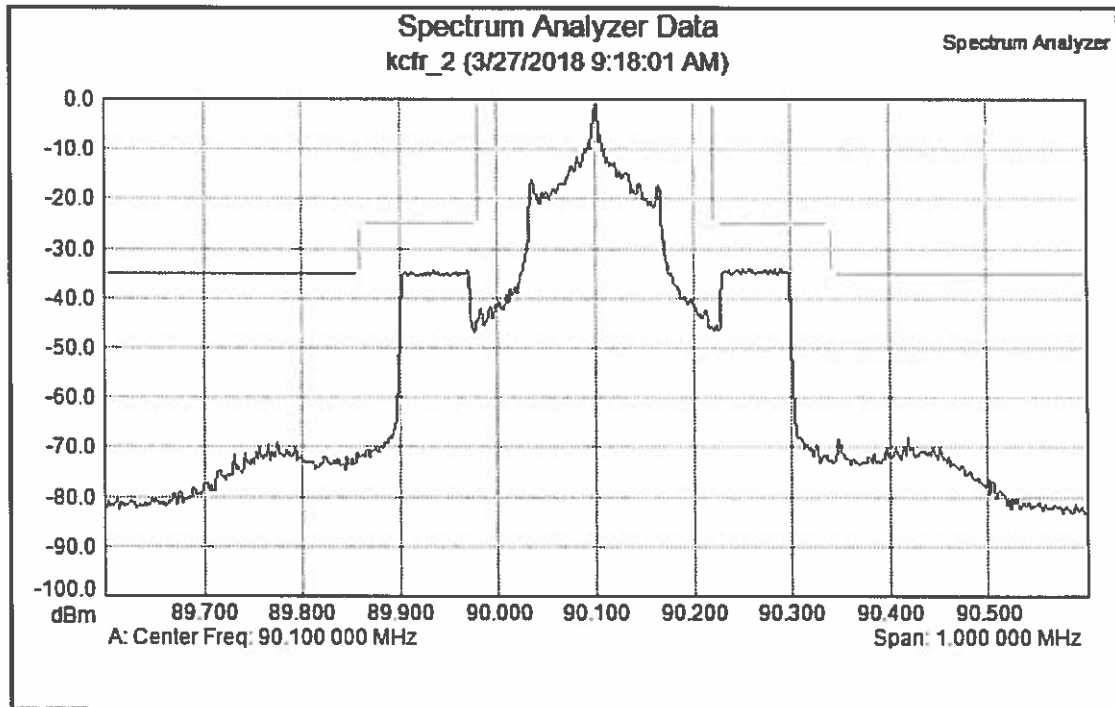
Intermodulation products were measured by Electronics Research Inc.

Spectrum plots show compliance with 73.318 b, c and d. On KCFR plot: 89.3MHz is KUVO and 91.1MHz is KLDV

# KCFR Emissions

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Date: 3/27/2018 9:18:01



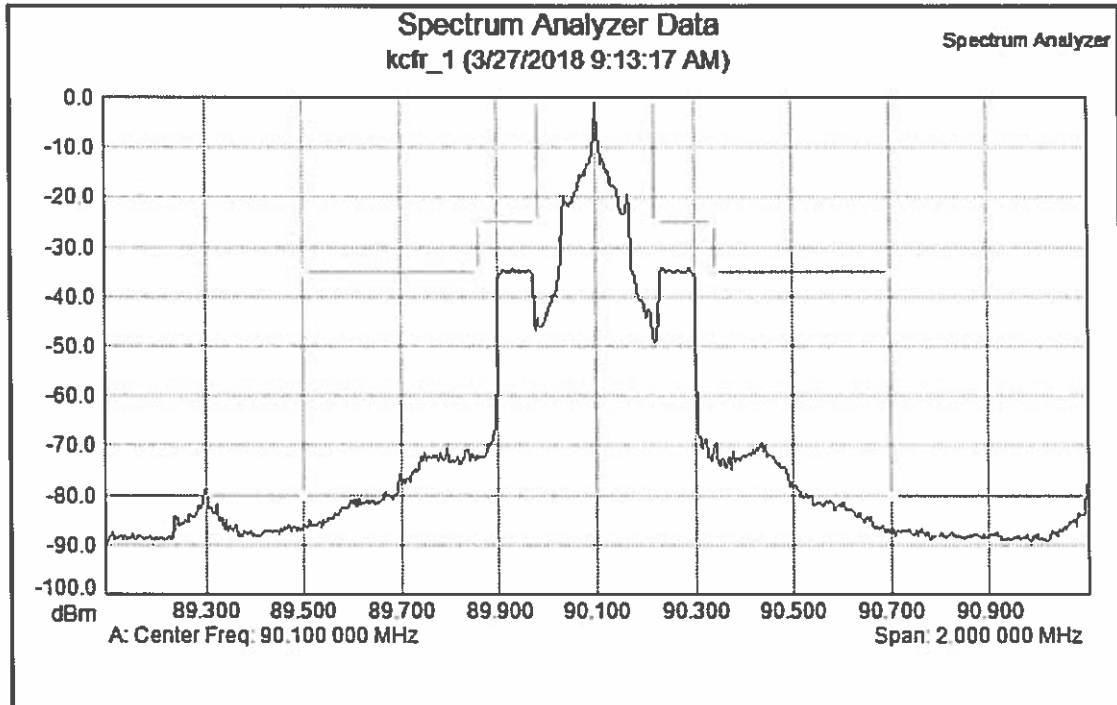
Measurement Summary			
Trace A data		VBW	100.0 Hz
Trace Mode	Max Hold	Detection	Peak
Preamp	OFF	Center Frequency	90.100 000 MHz
Min Sweep Time	0.001 S	Start Frequency	89.600 000 MHz
Reference Level Offset	-14.5 dB	Stop Frequency	90.600 000 MHz
Input Attenuation	10.0 dB	Frequency Span	1.000 000 MHz
RBW	300.0 Hz	Reference Level	-14.500 dBm

Device Summary			
Serial Number	1342041	Model	S332E
Base Ver.	V5.87	Options	10, 21, 31, 411, 431, 509
App Ver.	V7.12	Date	3/27/2018 9=18=01 AM

# KCFR Emissions

Colorado Public Radio

Date: 3/27/2018 9:13:17



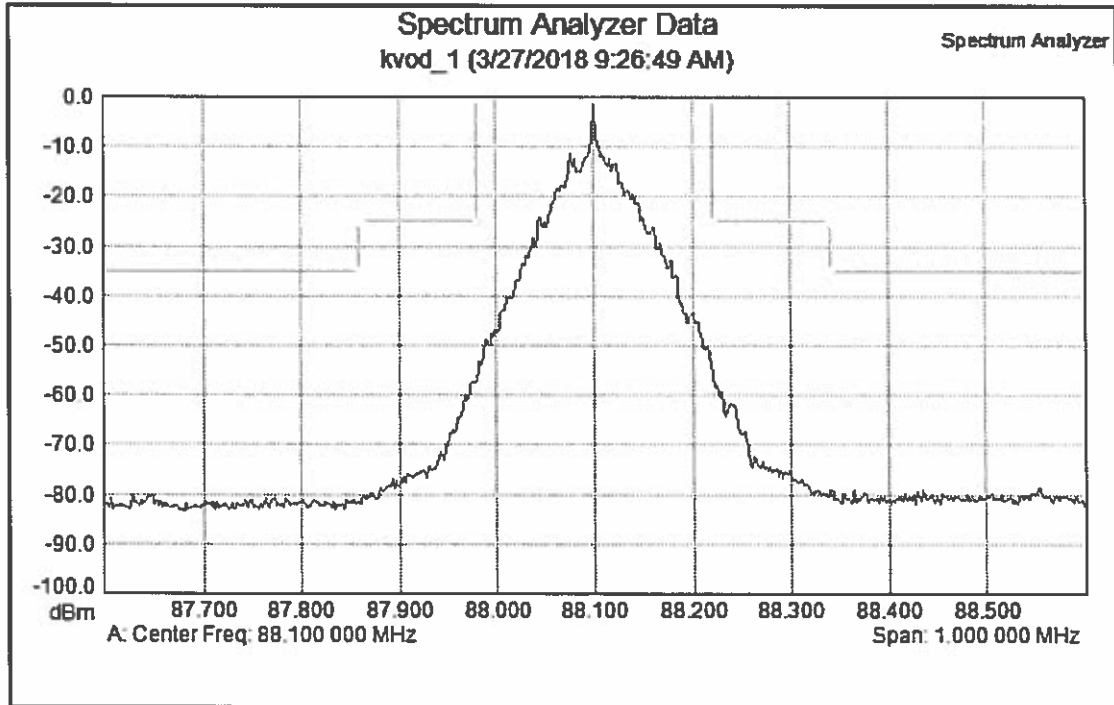
Measurement Summary			
Trace A data		VBW	100.0 Hz
Trace Mode	Max Hold	Detection	Peak
Preamplifier	OFF	Center Frequency	90.100 000 MHz
Min Sweep Time	0.001 S	Start Frequency	89.100 000 MHz
Reference Level Offset	-14.5 dB	Stop Frequency	91.100 000 MHz
Input Attenuation	10.0 dB	Frequency Span	2.000 000 MHz
RBW	300.0 Hz	Reference Level	-14.500 dBm

Device Summary			
Serial Number	1342041	Model	S332E
Base Ver.	V5.87	Options	10, 21, 31, 411, 431, 509
App Ver.	V7.12	Date	3/27/2018 9=13=17 AM

# KVOD Emissions

Colorado Public Radio

Date: 3/27/2018 9:26:49



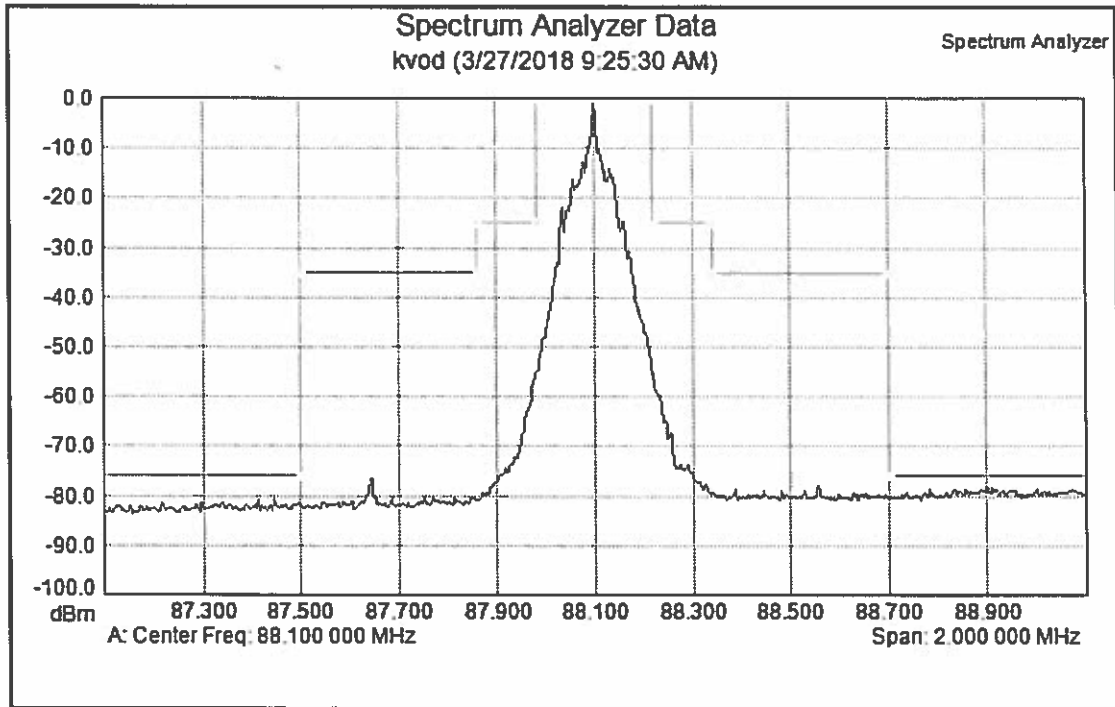
Measurement Summary			
Trace A data		VBW	100.0 Hz
Trace Mode	Max Hold	Detection	Peak
Preamplifier	OFF	Center Frequency	88.100 000 MHz
Min Sweep Time	0.001 S	Start Frequency	87.600 000 MHz
Reference Level Offset	-25 dB	Stop Frequency	88.600 000 MHz
Input Attenuation	0.0 dB	Frequency Span	1.000 000 MHz
RBW	300.0 Hz	Reference Level	-25.000 dBm

Device Summary			
Serial Number	1342041	Model	S332E
Base Ver.	V5.87	Options	10, 21, 31, 411, 431, 509
App Ver.	V7.12	Date	3/27/2018 9:26:49 AM

# KVOD Emissions

Colorado Public Radio

Date: 3/27/2018 9:25:30



Measurement Summary			
Trace A data		VBW	100.0 Hz
Trace Mode	Max Hold	Detection	Peak
Preamplifier	OFF	Center Frequency	88.100 000 MHz
Min Sweep Time	0.001 S	Start Frequency	87.100 000 MHz
Reference Level Offset	-25 dB	Stop Frequency	89.100 000 MHz
Input Attenuation	0.0 dB	Frequency Span	2.000 000 MHz
RBW	300.0 Hz	Reference Level	-25.000 dBm

Device Summary			
Serial Number	1342041	Model	S332E
Base Ver.	V5.87	Options	10, 21, 31, 411, 431, 509
App Ver.	V7.12	Date	3/27/2018 9=25=30 AM