

Equipment Performance Measurements
Radio Station KZCT
Vallejo, California
Ozcat Entertainment

The following measurements were made on the new KZCT transmitter to comply with §73.317 on September 2, 2010.

1. Operating power was determined using a calibrated 20 dB power attenuator and a calibrated spectrum analyzer with an unmodulated carrier. The calculated Transmitter Power Output was 4.0 Watts or +36.0 dBm. The output of the transmitter was connected through the attenuator to the spectrum analyzer and adjusted to display +16.2 dBm on the analyzer. This, plus 19.8 dB of attenuation (20 dB nominal) was a total of +36.0 dBm or 4.0 Watts. The transmitter power output meter indicated "4.8" at this point.


2. The occupied bandwidth of the transmitter with normal modulation was monitored in the Maximum Hold mode of the spectrum analyzer.

At -120 kHz the sidebands measured -43.2 dBm; at -240 kHz the sidebands measured -66.4 dBm; at +120 kHz the sidebands measured -41.1 dBm; and at +240 kHz the sidebands measured -66.2 dBm, all referenced to the +16.2 dBm unmodulated carrier. This measurement meets the requirements of §73.317 (b) and (c).

3. The spectrum to 1 GHz was measured and no spurious signals were observed above the analyzer noise floor at -60 dBm. This measurement meets the requirements of §73.317 (d).

Spectrum plots are attached to this report.

Respectfully submitted,



William F. Ruck, NCE
PG-12-7920

Master Software Tools Report

Prepared for:

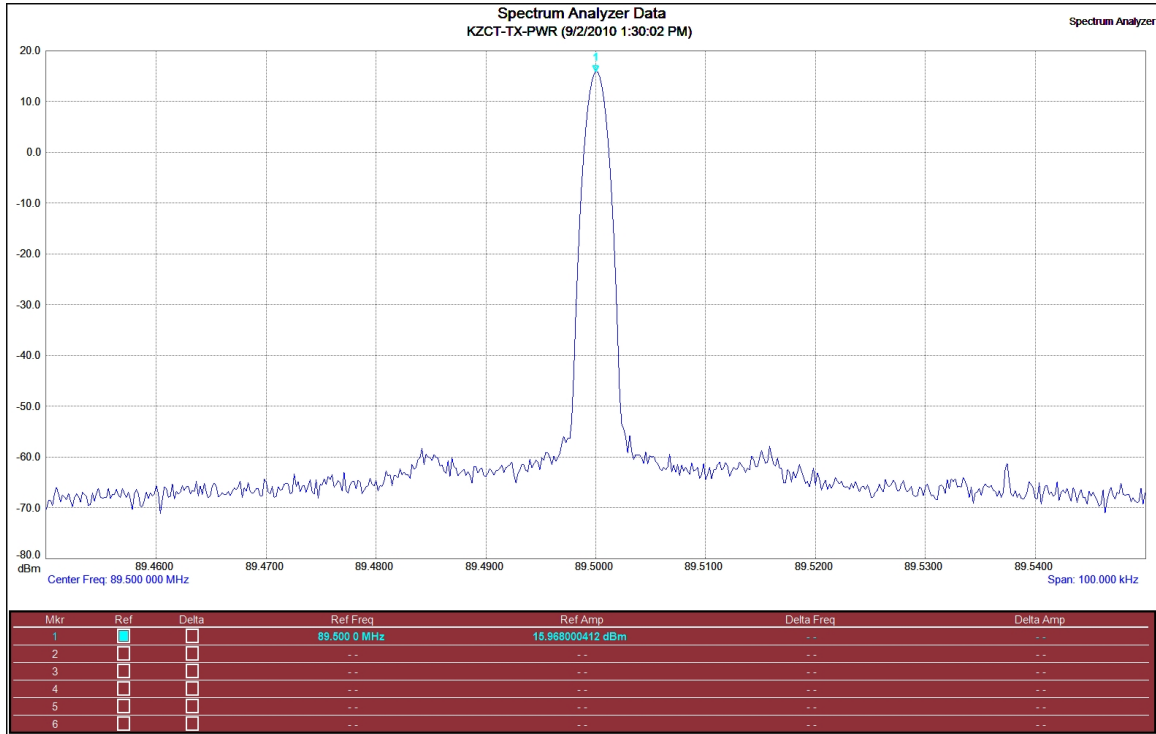
Location:

Date:

KZCT Vallejo, Ozcat Entertainment

N 38° 9'5" W 122° 11'29"

Date: 9/2/2010 1:30:02 PM



Measurement Summary			
Trace A data		Center Frequency	89.500 000 MHz
.	.	Start Frequency	89.450 000 MHz
.	.	Stop Frequency	89.550 000 MHz
Trace Mode	Normal	Frequency Span	100.000 000 kHz
Preamp	OFF	Reference Level	20.000 dBm
Min Sweep Time	0.005 S	Scale	10.0 dB/div
Reference Level Offset	0.0 dB	.	.
Input Attenuation	40.0 dB	GPS Longitude	W 122 11 29
RBW	1.0 kHz	GPS Latitude	N 38 9 5
VBW	100.0 Hz	GPS Fix Time	09 02 2010 20 32 47

Device Summary			
Serial Number	716152	App Ver.	V3.15
Base Ver.	V1.97	Date	9/2/2010 1=30=02 PM

Master Software Tools Report

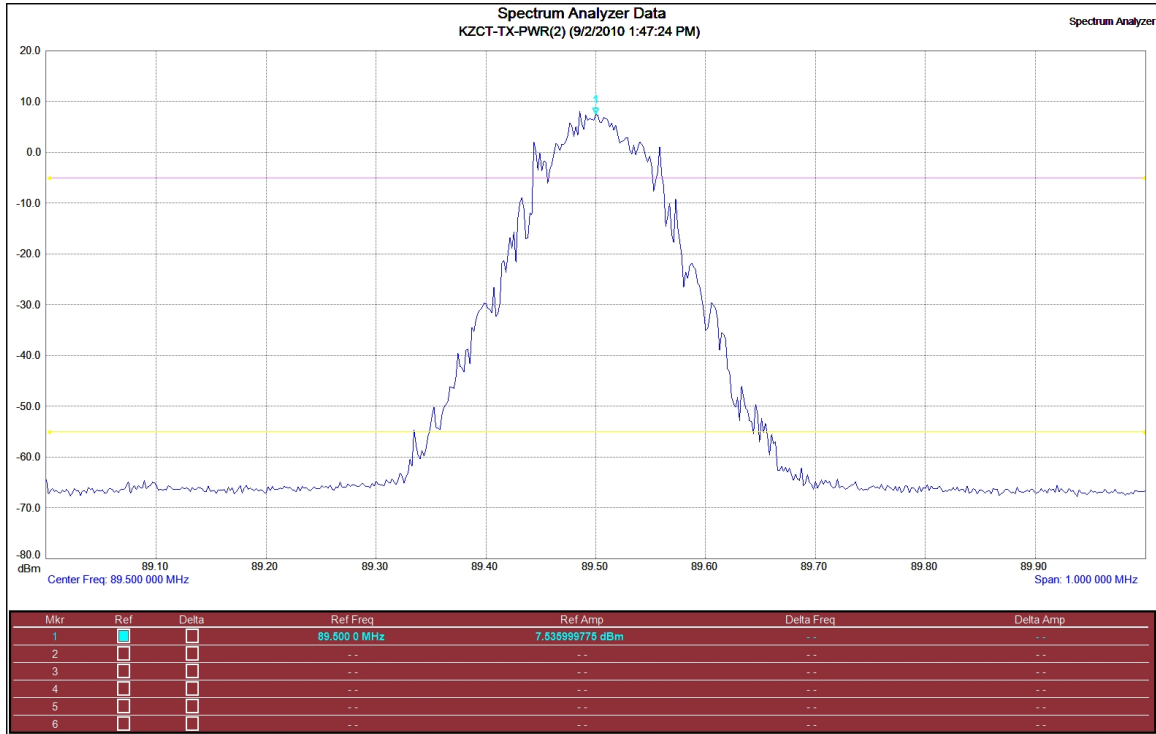
Prepared for:

Location:

Date:

KZCT Vallejo, Ozcat Entertainment
N 38° 9'5" W 122° 11'29"

Date: 9/2/2010 1:47:24 PM



Measurement Summary			
Trace A data		Center Frequency	89.500 000 MHz
.	.	Start Frequency	89.000 000 MHz
.	.	Stop Frequency	90.000 000 MHz
Trace Mode	Max Hold	Frequency Span	1.000 000 MHz
Preamp	OFF	Reference Level	20.000 dBm
Min Sweep Time	0.005 S	Scale	10.0 dB/div
Reference Level Offset	0.0 dB	.	.
Input Attenuation	40.0 dB	GPS Longitude	W 122 11 29
RBW	3.0 kHz	GPS Latitude	N 38 9 5
VBW	300.0 Hz	GPS Fix Time	09 02 2010 20 50 07

Device Summary			
Serial Number	716152	App Ver.	V3.15
Base Ver.	V1.97	Date	9/2/2010 1=47=24 PM

Master Software Tools Report

Prepared for:

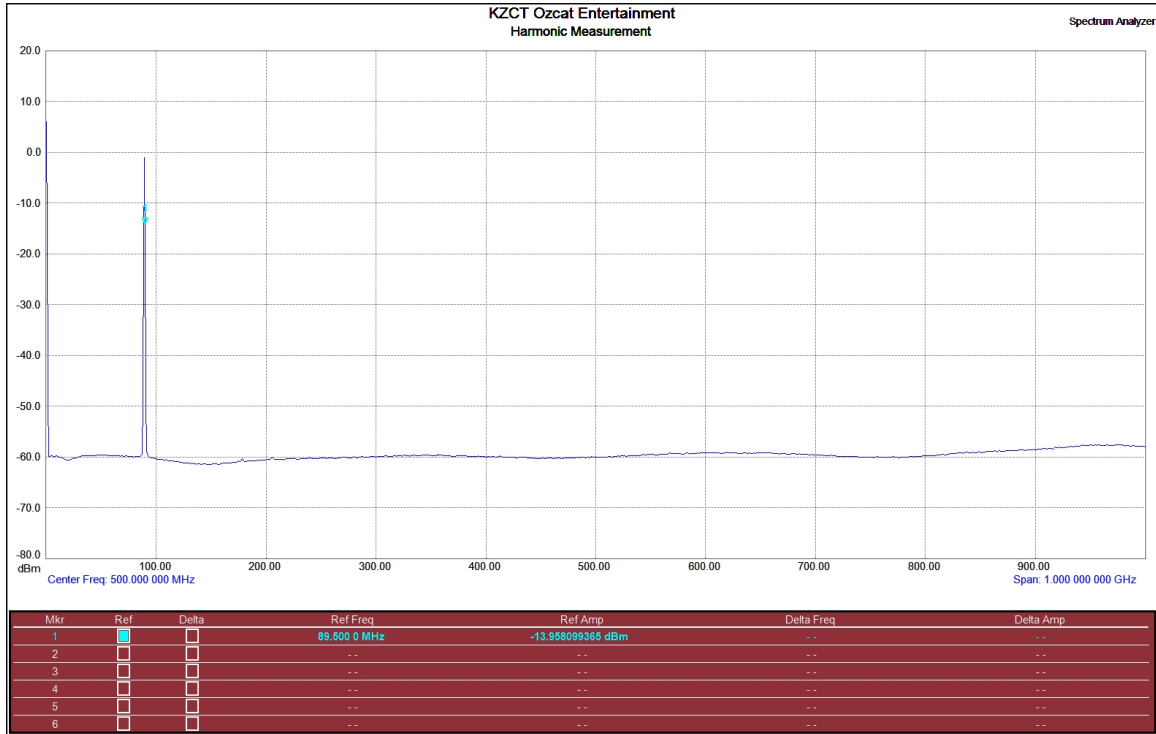
Location:

Date:

KZCT Vallejo, Ozcat Entertainment

N 38° 9'5" W 122° 11'29"

Date: 9/2/2010 1:54:47 PM



Measurement Summary			
Trace A data		Center Frequency	500.000 000 MHz
.	.	Start Frequency	0.000 000 Hz
.	.	Stop Frequency	1.000 000 GHz
Trace Mode	Max Hold	Frequency Span	1.000 000 GHz
Preamp	OFF	Reference Level	20.000 dBm
Min Sweep Time	0.005 S	Scale	10.0 dB/div
Reference Level Offset	0.0 dB	.	.
Input Attenuation	40.0 dB	GPS Longitude	W 122 11 29
RBW	30.0 kHz	GPS Latitude	N 38 9 5
VBW	3.0 kHz	GPS Fix Time	09 02 2010 20 57 32

Device Summary			
Serial Number	716152	App Ver.	V3.15
Base Ver.	V1.97	Date	9/2/2010 1=54=47 PM