

Exhibit 10

Directional Antenna - Pattern Test - Data Analysis
Spurious and Harmonic Measurements

KATHREIN
SCALE DIVISION

Antenna & Fibers

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October 20, 2004

Mr. Jon Banks
Sunlight Peak LLC
Fax: (970) 947-9658
Glenwood Springs, CO

Ref: System No. 759 12171, 3x3 754 154 / 757 629
Broadband FM, Circular Polarized Antenna System
KCJX KDNK & KVOV - Antenna Measurement System

Dear Jon,

The azimuth patterns for the above referenced antenna system were measured at the Kathrein-Werke KG factory (Plant II) in Rosenheim, Germany. The measuring system consists of a full scale measuring system located on the roof of the Kathrein factory. Patterns taken at the actual operating frequency, not scaled.

The measurement system consists of a Rohde & Schwarz ZVRE vector network analyzer, a test positioner with synchrotransmitter (provides azimuth data of the test tower) and a PC to record the resulting data. The tower used in this test was of identical dimensions as that installed in Glenwood Springs, Colorado with mounting dimensions also identical to that installed in Glenwood Springs.

The antenna system was comprised of a single bay (the actual antenna system comprised of three bays). The power feeding and phase to each face of the tower was identical to that of the actual installation. A mechanical drawing of the test system is included herein.

Mr. Manfred Schlentner, Senior Antenna Engineer, at the Kathrein Company, supervised the antenna pattern testing. Mr. Schlentner, Dipl.-Ing. is a graduate in civil engineering with a technical degree obtained in 1968 at the Technical University in Munich, Germany. The statement of Mr. Schlentner is appended herewith.

The analysis of the range data was performed by Mr. Michael Wm. Bach, Broadcast Sales Engineer at Kathrein Inc., Scale Division located in Medford, Oregon. Mr. Bach's credentials:

- AA Degree in Electronics Technology 1973
- RF and Microwave Circuit Design
- 1973 to 1991, Varian Corporation and Vitalink Satellite Communications
- 1991 to present, Kathrein Inc., Scale Division, Antenna Sales Applications Engineer



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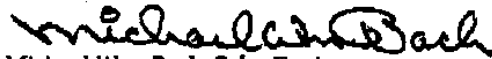
The pattern test data analysis performed by Mr. Bach (appended herewith) appears as:

- Article I, Station KCJX 88.9 MHz, Carbondale, Colorado
- Article II, Station KDNK 90.5 MHz, Carbondale, Colorado
- Article III, Station KVOV 88.1 MHz, Glenwood Springs, Colorado

The elevation gains of the horizontally and vertically polarized patterns are shown below. The elevation gains are determined by computer calculation, based on single bay, range measured patterns.

KVOV, frequency 88.1 MHz -	
Elevation gain, H polarized azimuth pattern	5.14 dB
Elevation gain, V polarized azimuth pattern	3.27 dB
KCJX, frequency 88.9 MHz -	
Elevation gain, H polarized azimuth pattern	5.08 dB
Elevation gain, V polarized azimuth pattern	3.53 dB
KDNK, frequency 90.5 MHz -	
Elevation gain, H polarized azimuth pattern	5.01 dB
Elevation gain, V polarized azimuth pattern	3.53 dB

Respectfully submitted by:



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Antennas • Filters

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Article I, Station KCJX 88.9 MHz, Carbondale, Colorado
Pattern Test Data Analysis

With supporting data:

- Plot of the Horizontally and Vertically Polarized Horizontal Patterns
- Tabulated Data for the Horizontally Polarized Horizontal Pattern
- Tabulated Data for the Vertically Polarized Horizontal Pattern
- Plotted Elevation Pattern for the Horizontal Polarized Pattern and Calculated Elevation Gain
- Plotted Elevation Pattern for the Vertical Polarization and Calculated Elevation Gain
- Method of Measurement, Facilities, and Equipment

The calculated RMS value of the horizontally polarized azimuth pattern is:	0.766
The calculated RMS value of the vertically polarized azimuth pattern is:	0.641
The maximum value of vertically polarized radiation occurs at 0° azimuth and is:	0.940
The calculated elevation gain of the horizontally polarized component is:	5.08 dB
Or a decimal gain of:	3.221
The calculated elevation gain of the vertically polarized component is:	3.53 dB
Or a decimal gain of:	2.254
The horizontal azimuth gain = $1 / (\text{Hpol RMS})^2 = 1 / (0.766)^2$	1.704
The vertical azimuth gain = $1 / (\text{Vpol RMS} / \text{Vpol Max})^2 = 1 / (0.641 / 0.940)^2$	2.150
The total Hpol gain = $(\text{Hpol Elev gain})(\text{Hpol Azm gain}) / 2 = (1.704)(3.221) / 2$	2.744
The total Vpol gain = $(\text{Vpol Elev gain})(\text{Vpol Azm gain}) / 2 = (2.254)(2.150) / 2$	2.423

The factor 1/2 in the above gain calculations accounts for the power divider that evenly splits the antenna input energy between the horizontal and vertical radiating elements.

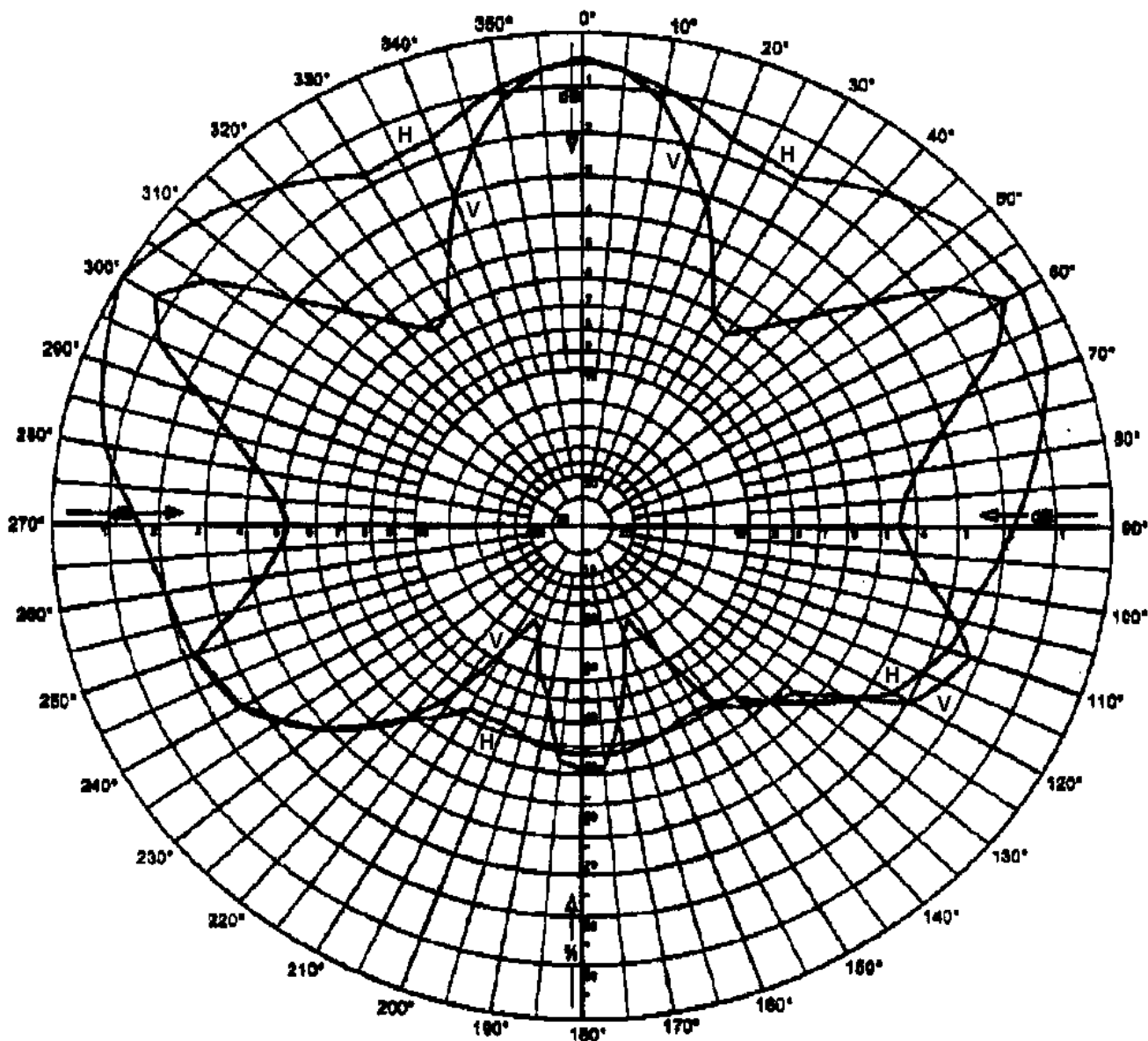
The authorized ERP is 4.0 kW	
The antenna input power is $(\text{H-ERP} / \text{total Hpol gain}) = 4.0 / 2.744$	1.46 kW
Vertical ERP = $(\text{antenna input power})(\text{total Vpol gain}) = (1.46)(2.423)$	3.53 kW
Alternately,	
Vertical ERP = $(\text{Maximum Vpol value})^2 (\text{Max ERP}) = (.940)^2 (4.0)$	3.53 kW

Consistent results for the calculated Vertical ERP give confidence in the analysis

The calculated RMS value of the authorized CP pattern is:	0.784
The calculated RMS of the measured composite pattern is:	0.774
So the ratio of the measured composite RMS / authorized pattern RMS is:	0.987

Or 98.7%





KCJX - FM

88.9 MHz

Horizontal Polarization Horizontal Plane

KATHALIN
SCALA DIVISION
 For: Office Box 4590 Phone: (841) 778-6300
 Medford, OR 97501 (USA) Fax: (841) 778-6981
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Vertical Polarization Horizontal Plane

KATHARIS SCALA DIVISION

KCUX-FM

HORIZONTAL POLARIZATION

HORIZONTAL PLANE PATTERN

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel dB	dBd	PwrMult
0	0.949	-0.45	-0.45	0.90	180	0.462	-6.71	-6.71	0.21
5	0.926	-0.67	-0.67	0.86	185	0.457	-6.80	-6.80	0.21
10	0.902	-0.90	-0.90	0.81	190	0.452	-6.90	-6.90	0.20
15	0.867	-1.24	-1.24	0.75	195	0.439	-7.14	-7.14	0.19
20	0.832	-1.60	-1.60	0.69	200	0.427	-7.39	-7.39	0.18
25	0.823	-1.69	-1.69	0.68	205	0.427	-7.39	-7.39	0.18
30	0.815	-1.78	-1.78	0.66	210	0.427	-7.39	-7.39	0.18
35	0.848	-1.43	-1.43	0.72	215	0.475	-6.47	-6.47	0.23
40	0.881	-1.10	-1.10	0.78	220	0.513	-5.80	-5.80	0.26
45	0.907	-0.85	-0.85	0.82	225	0.585	-4.66	-4.66	0.34
50	0.933	-0.60	-0.60	0.87	230	0.646	-3.80	-3.80	0.42
55	0.944	-0.50	-0.50	0.89	235	0.694	-3.18	-3.18	0.48
60	0.955	-0.40	-0.40	0.91	240	0.741	-2.60	-2.60	0.55
65	0.944	-0.50	-0.50	0.89	245	0.759	-2.40	-2.40	0.58
70	0.933	-0.60	-0.60	0.87	250	0.776	-2.20	-2.20	0.60
75	0.902	-0.90	-0.90	0.81	255	0.785	-2.10	-2.10	0.62
80	0.871	-1.20	-1.20	0.76	260	0.794	-2.00	-2.00	0.63
85	0.842	-1.49	-1.49	0.71	265	0.813	-1.80	-1.80	0.66
90	0.813	-1.80	-1.80	0.66	270	0.832	-1.60	-1.60	0.69
95	0.786	-2.09	-2.09	0.62	275	0.872	-1.19	-1.19	0.76
100	0.759	-2.40	-2.40	0.58	280	0.912	-0.80	-0.80	0.83
105	0.746	-2.55	-2.55	0.56	285	0.935	-0.58	-0.58	0.87
110	0.733	-2.70	-2.70	0.54	290	0.958	-0.37	-0.37	0.92
115	0.704	-3.04	-3.04	0.50	295	0.979	-0.18	-0.18	0.96
120	0.676	-3.40	-3.40	0.46	300	1.000	0.00	0.00	1.00
125	0.616	-4.21	-4.21	0.38	305	0.975	-0.22	-0.22	0.95
130	0.556	-5.10	-5.10	0.31	310	0.950	-0.45	-0.45	0.90
135	0.504	-5.95	-5.95	0.25	315	0.920	-0.72	-0.72	0.85
140	0.452	-6.90	-6.90	0.20	320	0.891	-1.00	-1.00	0.79
145	0.437	-7.19	-7.19	0.19	325	0.853	-1.38	-1.38	0.73
150	0.422	-7.49	-7.49	0.18	330	0.816	-1.77	-1.77	0.67
155	0.435	-7.24	-7.24	0.19	335	0.823	-1.69	-1.69	0.68
160	0.447	-6.99	-6.99	0.20	340	0.830	-1.62	-1.62	0.69
165	0.454	-6.85	-6.85	0.21	345	0.866	-1.25	-1.25	0.75
170	0.462	-6.71	-6.71	0.21	350	0.902	-0.90	-0.90	0.81
175	0.462	-6.71	-6.71	0.21	355	0.925	-0.67	-0.67	0.86

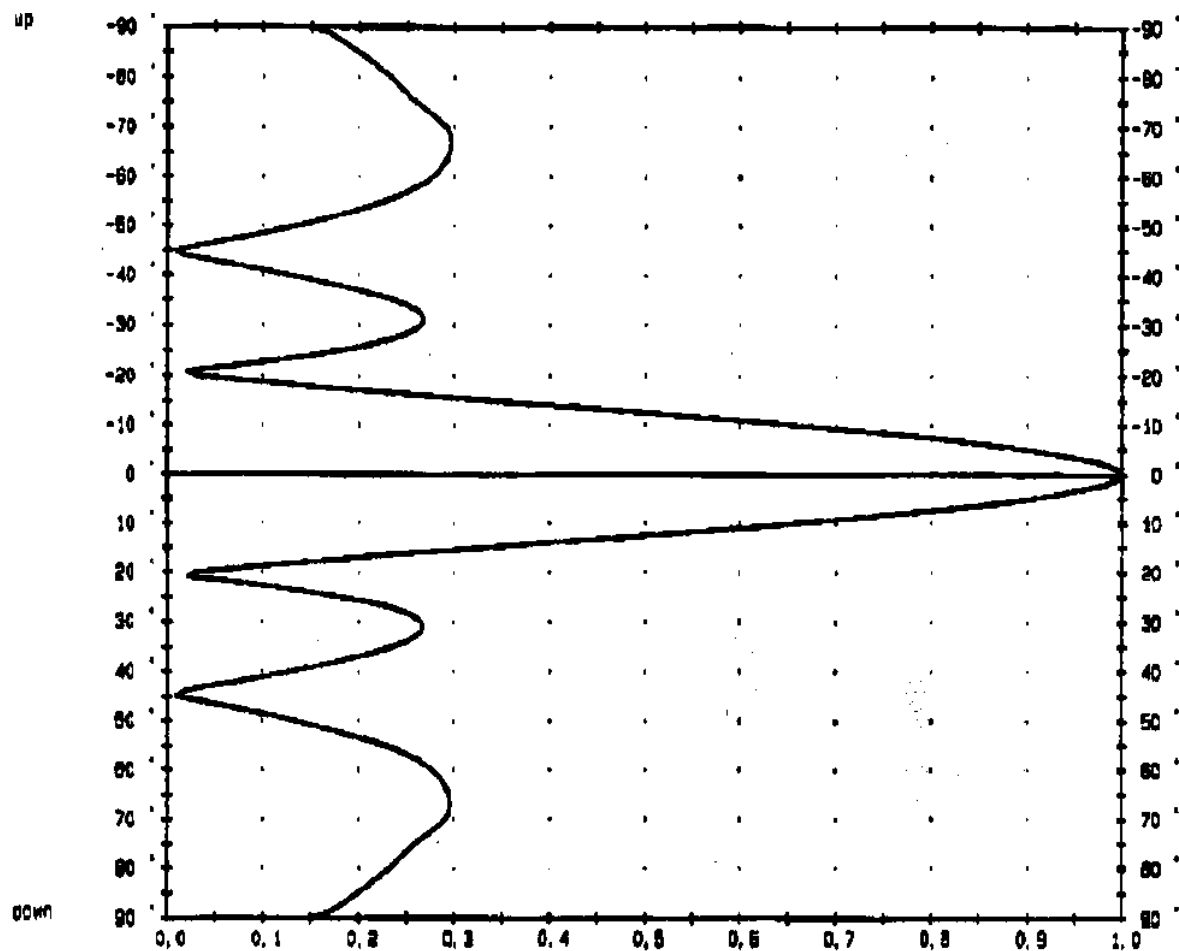
KATHARIS SCALA DIVISION

KCUX - FM

VERTICAL POLARIZATION

HORIZONTAL PLANE PATTERN

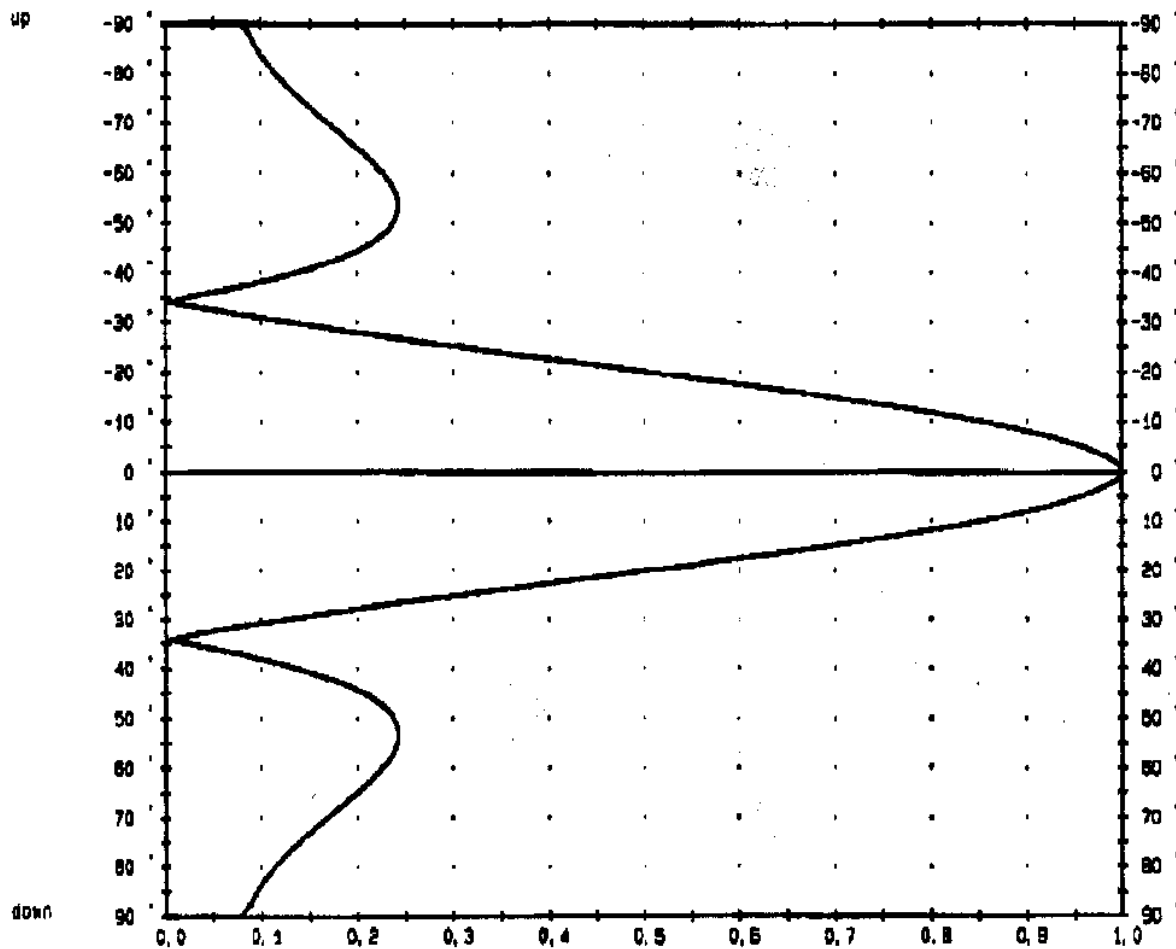
Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	0.840	-0.54	-0.54	0.88	180	0.490	-6.20	-6.20	0.24
5	0.927	-0.66	-0.66	0.86	185	0.478	-6.41	-6.41	0.23
10	0.874	-1.17	-1.17	0.76	190	0.356	-8.97	-8.97	0.13
15	0.778	-2.18	-2.18	0.61	195	0.310	-10.17	-10.17	0.10
20	0.690	-3.22	-3.22	0.48	200	0.230	-12.77	-12.77	0.05
25	0.587	-4.63	-4.63	0.34	205	0.210	-13.56	-13.56	0.04
30	0.494	-6.13	-6.13	0.24	210	0.281	-11.03	-11.03	0.08
35	0.474	-6.48	-6.48	0.22	215	0.412	-7.70	-7.70	0.17
40	0.525	-5.60	-5.60	0.28	220	0.509	-5.87	-5.87	0.26
45	0.597	-4.48	-4.48	0.36	225	0.574	-4.82	-4.82	0.33
50	0.700	-3.10	-3.10	0.49	230	0.640	-3.88	-3.88	0.41
55	0.845	-1.46	-1.46	0.71	235	0.688	-3.25	-3.25	0.47
60	0.917	-0.75	-0.75	0.84	240	0.736	-2.66	-2.66	0.54
65	0.865	-1.26	-1.26	0.75	245	0.752	-2.48	-2.48	0.57
70	0.762	-2.36	-2.36	0.58	250	0.770	-2.27	-2.27	0.59
75	0.690	-3.22	-3.22	0.48	255	0.675	-3.41	-3.41	0.46
80	0.639	-3.89	-3.89	0.41	260	0.609	-4.31	-4.31	0.37
85	0.608	-4.32	-4.32	0.37	265	0.572	-4.85	-4.85	0.33
90	0.597	-4.48	-4.48	0.36	270	0.551	-5.18	-5.18	0.30
95	0.622	-4.12	-4.12	0.39	275	0.572	-4.85	-4.85	0.33
100	0.663	-3.57	-3.57	0.44	280	0.614	-4.24	-4.24	0.38
105	0.727	-2.77	-2.77	0.53	285	0.677	-3.39	-3.39	0.46
110	0.777	-2.19	-2.19	0.60	290	0.762	-2.36	-2.36	0.58
115	0.750	-2.50	-2.50	0.56	295	0.875	-1.16	-1.16	0.77
120	0.716	-2.90	-2.90	0.51	300	0.927	-0.66	-0.66	0.86
125	0.600	-4.44	-4.44	0.36	305	0.859	-1.32	-1.32	0.74
130	0.525	-5.60	-5.60	0.28	310	0.712	-2.95	-2.95	0.51
135	0.501	-6.00	-6.00	0.25	315	0.607	-4.34	-4.34	0.37
140	0.478	-6.41	-6.41	0.23	320	0.534	-5.45	-5.45	0.29
145	0.444	-7.05	-7.05	0.20	325	0.482	-6.34	-6.34	0.23
150	0.300	-10.46	-10.46	0.09	330	0.500	-6.02	-6.02	0.25
155	0.210	-13.56	-13.56	0.04	335	0.594	-4.52	-4.52	0.35
160	0.230	-12.77	-12.77	0.05	340	0.704	-3.05	-3.05	0.50
165	0.310	-10.17	-10.17	0.10	345	0.794	-2.00	-2.00	0.63
170	0.400	-7.96	-7.96	0.16	350	0.874	-1.17	-1.17	0.76
175	0.490	-6.20	-6.20	0.24	355	0.927	-0.66	-0.66	0.86



frequency in MHz 88.900
 output in 1.0
 gain-dir in dBd 5.08

Colorado Public Radio

KATHREIN Rosenheim Germany	3 x 3 754 154 Circular Polarized array	Typ Nr.
BCA/HB 20.10.77 12:34	88.9 MHz, H-pol, V-Plane pattern	Bl.:



frequency in MHz 88.900
 azimuth in 0
 omni-dir in dBd 3.53

Colorado Public Radio

KATHREIN Rosenheim Germany	3 x 3 754 154 Circular Polarized array	Typ Nr.
BCA/HB 20.10.94 12:46	88.9 MHz, V-pol, V-Plane pattern	B1.:

KATHREIN-Werke KG, P. O. Box 100 444, D-83004 Rosenheim

Broadcast Antennas

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e-mail: broadcast@kathrein.de

UST-ident.Nr.: DE 131 158 993

TO WHOM IT MAY CONCERN

Your ref.

Our ref.
BCA/Sl-Wt

Date
02.09.04

Ref: FM Antenna System Glenwood Springs (Sunlight Peak)
Project-No. 759 12171

STATEMENT

For the FM-CP-Transmitting Antenna 759 12171 Glenwood Springs, a temporary measuring setup was installed on the turntable of our measuring field, in accordance with the enclosed sketches. The measuring equipment was a Vector Network Analyzer 10 Hz / 9 kHz - 4 GHz ZVRE from Rohde & Schwarz.

This is to confirm that the measuring setup had the correct dimensions and that we used the correct frequencies.

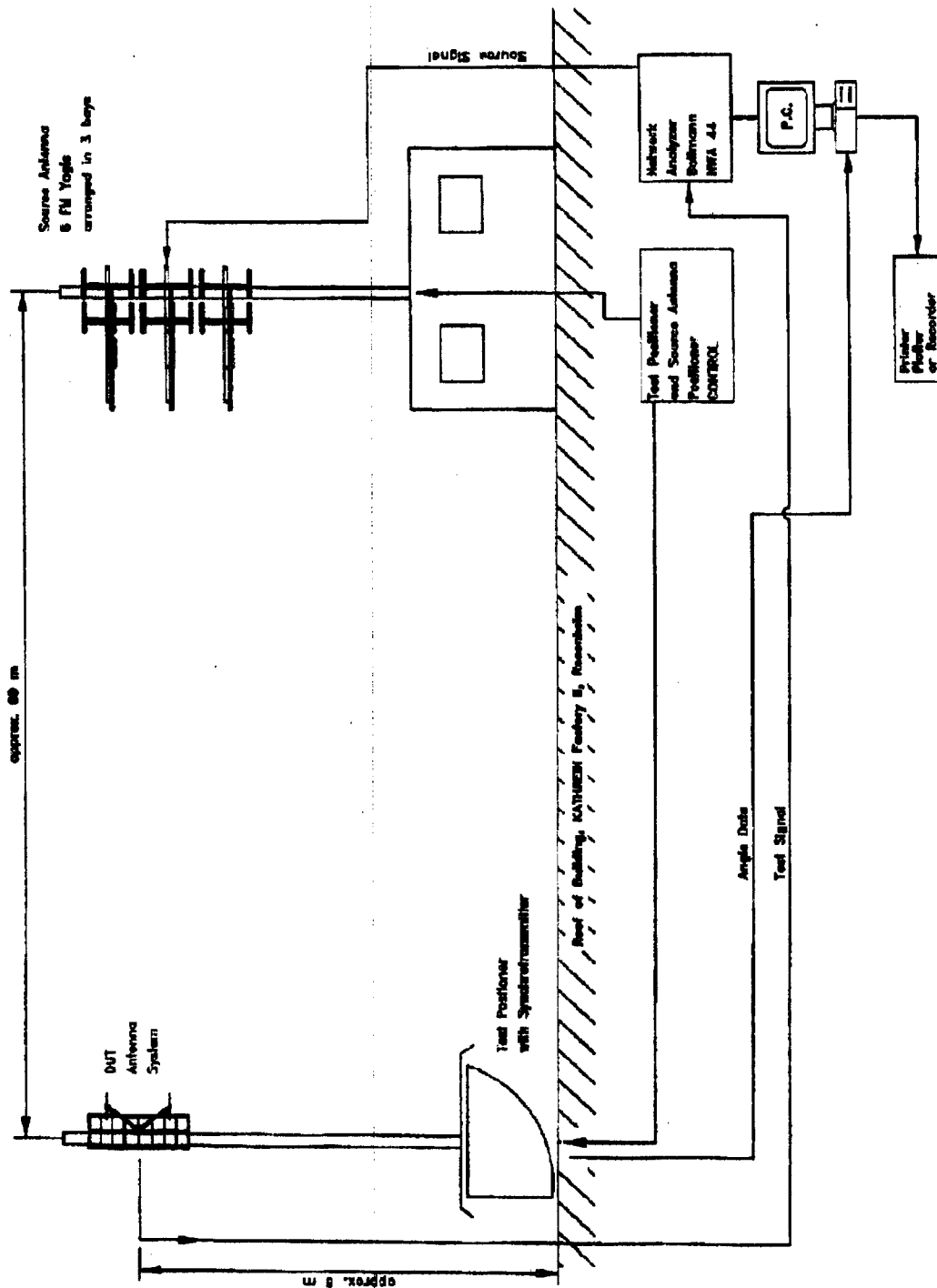
Sincerely yours,
KATHREIN - Werke KG



Manfred Schlentner
Kathrein Antenna Engineer

Rosenheim, September 2nd, 2004

Mechanical and Electrical Setup



KATHREIN

Day
19.03.95
Name

FM Antenna Test Range of
KATHREIN, PTR

Type No.

sheet:

Equipment Performance Measurements

Station: KCJX-FM Carbondale 88.9 MHz

Date: 9/2/04

Equipment performance measurements were conducted to confirm compliance with section 73.317 of the FCC Rules, copy attached. Measurements were taken at the station's transmitter site, using:

- ☐ Coaxial Dynamics model 87036 directional coupler (60 dB)
- ☐ Coaxial Dynamics model 6019 attenuator (20 dB)
- ☒ Bird model 10A-MFN-10 attenuator (10 dB)
- ☒ Bird model 2A-MFN-10 attenuator (10 dB)
- ☒ Microwave Filter Company model 6367-2 Tunable Notch Filter (two section)
- ☒ EMR FM-6354 dual cavity bandpass filter
- ☒ RG-142 double shielded cables
- ☐ A non-directional coupler in the station's transmission line
- ☒ A directional coupler in the station's transmission line
- ☐ A broadband receive antenna directed at the transmit antenna of the station
- ☒ Tektronix 2712 spectrum analyzer, S/N B044222
- ☐ _____

and,

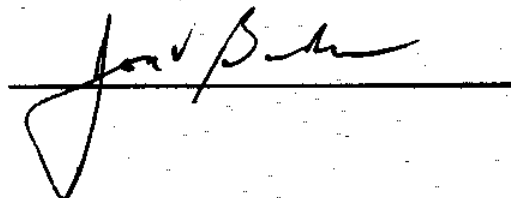
- ☒ The station was in compliance with section 73.317
- ☐ The station was not in compliance with section 73.317.

Comments:

The station's construction permit required measurements be made with KDNK (90.5 MHz) and KVOV (88.1 MHz) also operating at the site into the common antenna. Special attention was given to the possibility of intermodulation among these stations and other nearby transmitters, as described in the test procedure. At KCJX's licensed EPR of 4.0 kW, the ultimate required suppression is 79 dBc.

Occupied bandwidth standards were met easily ± 600 kHz. The second harmonic was measured at -84 dB reference carrier, and the other harmonics were below -87 dBc. One intermodulation product was observed at 89.7 MHz, but it was -80 dBc.

Signed



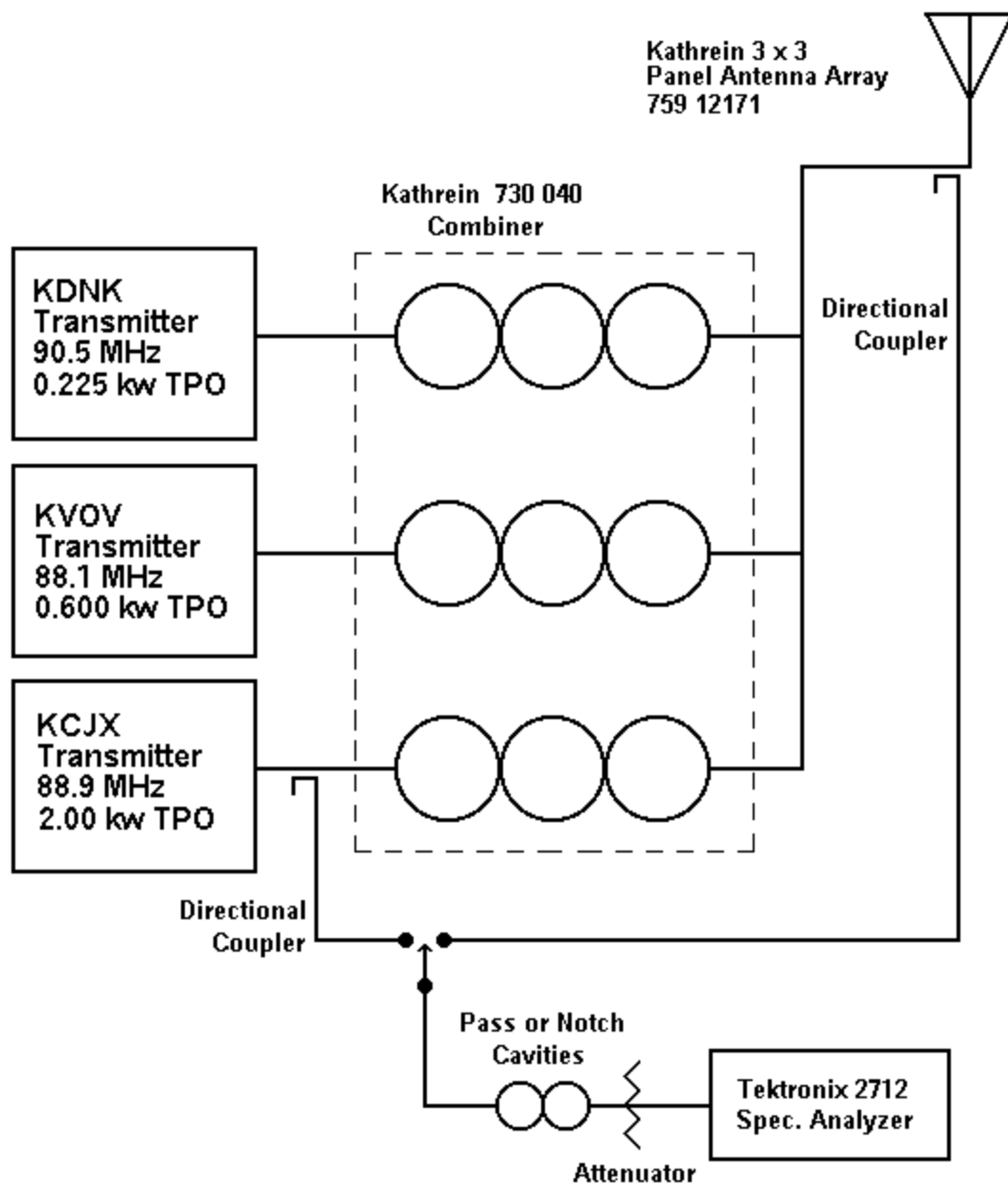
Test Procedure:

KCJX is one of three stations using a Kathrein combiner and common antenna at this site. FM broadcast station KKCH (92.7 MHz) is also located on a nearby tower. In addition to normal occupied bandwidth and harmonic measurements, special attenuation was given to possible third order intermod products on the following 2A-B or A+B-C frequencies that were determined by calculation; only those products that had KCJX's frequency of 88.9 MHz as a contributor are listed:

A	B	C	A+B-C or 2A-B
88.1	88.9	92.7	84.3
88.9	88.9	92.7	85.1
88.1	88.9	90.5	86.5
88.9	90.5	92.7	86.7
88.1	88.1	88.9	87.3
88.9	88.9	90.5	87.3
88.1	90.5	88.9	88.7
88.9	88.9	88.1	88.7
88.9	92.7	90.5	91.1
88.9	90.5	88.1	91.3
88.1	92.7	88.9	91.9
90.5	90.5	88.9	92.1
88.9	92.7	88.1	93.5
90.5	92.7	88.9	94.3
92.7	92.7	88.9	96.5

No intermodulation products were noted with KKCH (92.7) as a contributing factor. The only significant product observed was between KCJX (88.9) and KVOV (88.1) of the 2A-B form resulting in a spur on 89.7 MHz. That product was measured at -80 dB reference the KCJX carrier, meeting the spurious emissions requirements of -79 dB at their 4 kw ERP.

Attenuators were used to reduce the level of the KCJX carrier to prevent overload induced intermodulation in the spectrum analyzer. Bandpass or notch filters were used to extend the dynamic range of the spectrum analyzer without overload. The spectrum analyzer's tracking generator was used to verify the tuning and loss of the filters. Stations were operating at their specified ERP's of 4 kw (KCJX), 1.2 kw (KVOV) and 450 w (KDNK) at the time of the measurements.



KCJX Spurious Emissions Test Setup