

SELLMEYER ENGINEERING
BROADCAST & COMMUNICATION CONSULTING ENGINEERS
P. O. Box 356 McKinney, Texas 75070
MEMBER AFCCE

EXHIBIT E-1

EXHIBIT E-1
ENGINEERING STATEMENT IN SUPPORT OF APPLICATION FOR STATION LICENSE
RADIO STATION WRR
CHANNEL 266C, 98 KW-HOR, 100 KW-MAX, 508 METERS AAT
DALLAS, TEXAS
C.P. FILE NO. BPH-20030925ATO
FACILITY NO. 11451

MAY, 2006

SELLMEYER ENGINEERING
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EXHIBIT E-1

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FCC FORM 302-FM

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Certification of Engineer	

SECTION III PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name J. S. Sellmeyer, P.E.		Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer	
Signature <i>J S Sellmeyer</i>		Date 05/18/2006	
Mailing Address Sellmeyer Engineering, P.O. Box 356			
City McKinney		State or Country (if foreign address) Texas	ZIP Code 75070
Telephone Number (include area code) 214-495-9764		E-Mail Address (if available) jack@sellmeyerengineering.com	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001).
AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)),
AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).



Section III - Engineering

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1. Channel: <u>266</u>				
2. a. Effective Radiated Power: _____ <u>98</u> kW (H) _____ <u>98</u> kW (V)				
b. Maximum Effective Radiated Power: <input type="checkbox"/> Not applicable _____ <u>100</u> kW (H) _____ <u>100</u> kW (V) (Beam-Tilt Antenna ONLY)				
3. Transmitter Power Output: _____ <u>37.6</u> kW				
4. Antenna Data				
<table border="1"><tr><td>Manufacturer HAR/DIE</td><td>Model TAC-8FMB-3/24</td><td>Number of Sections 8</td><td>Spacing Between Sections 1.0 (wavelength)</td></tr></table>	Manufacturer HAR/DIE	Model TAC-8FMB-3/24	Number of Sections 8	Spacing Between Sections 1.0 (wavelength)
Manufacturer HAR/DIE	Model TAC-8FMB-3/24	Number of Sections 8	Spacing Between Sections 1.0 (wavelength)	

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

CERTIFICATION

All applicants must complete this section.

5. **Main Studio Location.** The main studio location complies with 47 C.F.R. Section 73.1125. Yes No

See Explanation in Exhibit No. E-1
--
6. **Transmitter Power Output.** The operating transmitter power output produces the authorized effective radiated power. Yes No

See Explanation in Exhibit No. E-1
--

APPLICATIONS FILED TO COVER A CONSTRUCTION PERMIT.

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

7. **Constructed Facility.** The facility was constructed as authorized in the underlying construction permit or complies with 47 C.F.R. Section 73.1690. Yes No

See Explanation in Exhibit No. E-1
--
8. **Special Operating Conditions.** The facility was constructed in compliance with all special operating conditions, terms, and obligations described in the construction permit. Yes No

See Explanation in Exhibit No. E-1
--
- An exhibit may be required.** Review the underlying construction permit.

Exhibit No. E-1

PREPARER'S CERTIFICATION ON PAGE 3 MUST BE COMPLETED AND SIGNED.

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MEMBER AFCCE

EXHIBIT E-1
ENGINEERING STATEMENT RE: LICENSE APPLICATION
FCC FORM 302-FM
FILE NUMBER: BPH-20030925ATO
FACILITY ID: 11451
RADIO STATION WRR
CHAN 266C, 0.98 KW-HOR, 100 KW-(MAX, 508 MTRS AAT
DALLAS, TEXAS

This Firm represents the City of Dallas, Texas, licensee of Station WRR, Dallas, Texas. This Engineering Statement addresses the conditions imposed on the instant construction permit.

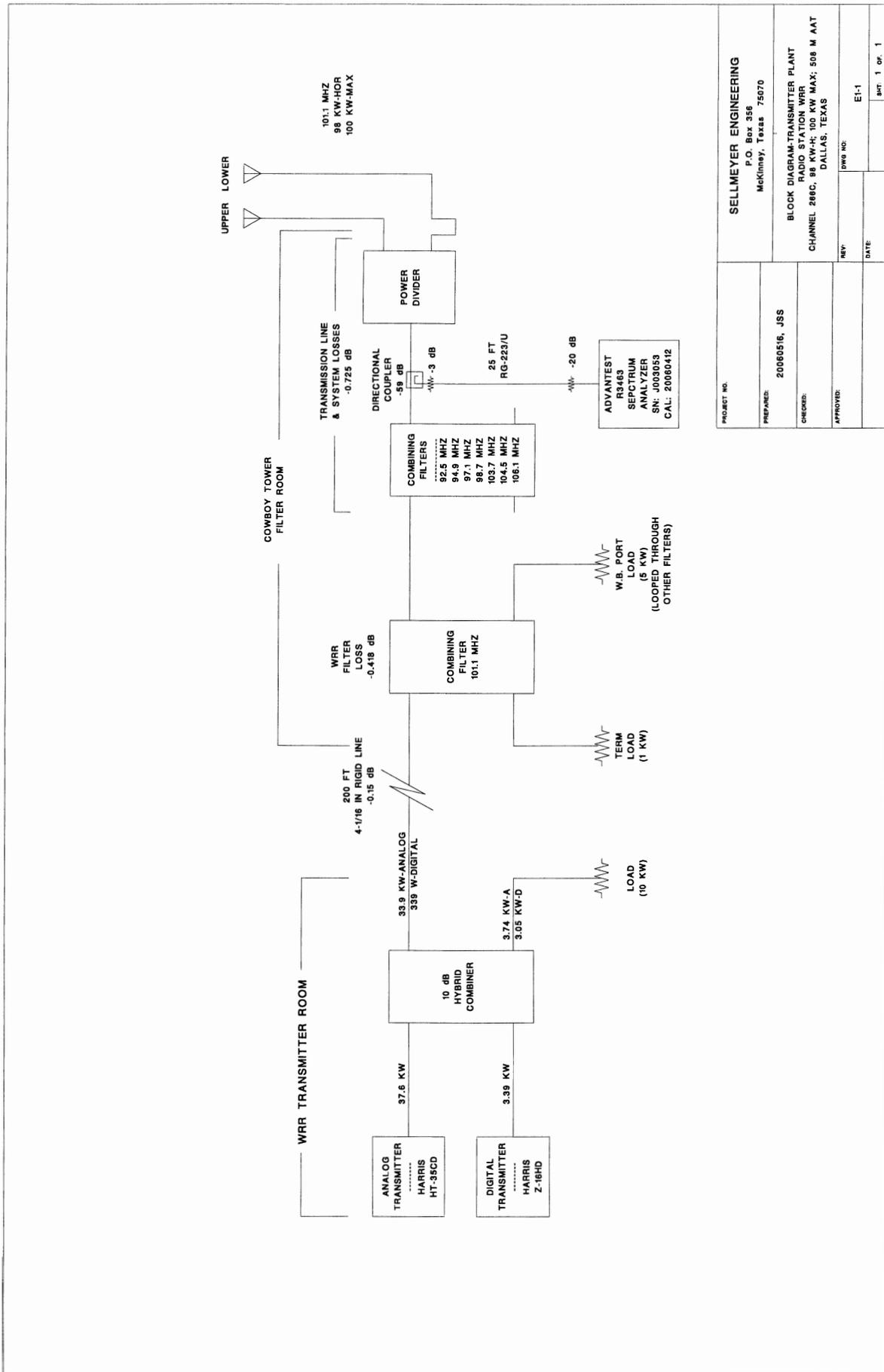
Station WRR is authorized to construct a new main transmitter plant at the Cowboy Tower Transmission Site at Cedar Hill, Texas. The construction has been completed and measurements to document compliance with Section 73.317 of the Rules have been completed. The conditions imposed on the construction permit are as follows:

- 1: "The permittee shall submit a copy of the vertical plane pattern for the beam tilt antenna authorized in this construction permit...." The elevation pattern plot appears herein as **Exhibit E1-2A**. The vertical pattern plot appears herein as **Exhibit E1-2B**. The pattern tabulation appears herein as **Exhibit E1-2C**.
- 2: "BEFORE PROGRAM TESTS COMMENCE, sufficient measurements shall be made to establish that the operation authorized in this construction permit is in compliance with the spurious emissions requirements of Sections 73.317(b) through 73.317(d)."
The results of the measurements appear herein as Exhibit E1-4.
- 3: "The permittee/licensee in coordination with other users of the site must 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."
The owner of the tower has a procedure in effect to assure compliance with this requirement. The City of Dallas will comply with the established procedures.

A block diagram of the WRR Main Transmitter Plant appears herein as Exhibit E1-1. The transmitter power output of the analog and digital transmitters was established according the calculations shown in Exhibit E1-3, attached herein.

The digital transmission system was adjusted to comply with the NRSC-5 FM FM Mask. The system appears to be in full compliance with the Ibiqity published standards.

All measurements were made by the undersigned in accordance with accepted industry practices.



PROJECT NO.	SELLMEYER ENGINEERING
PREPARED:	P.O. Box 356 McKinney, Texas 75070
CHECKED:	20060516, JSS
APPROVED:	BLOCK DIAGRAM-TRANSMITTER PLANT RADIO STATION WRR CHANNEL 286C, 98 KW-H; 100 KW MAX; 508 M AAT DALLAS, TEXAS
REV:	DWG NO: EI-1
DATE:	part 1 of 1

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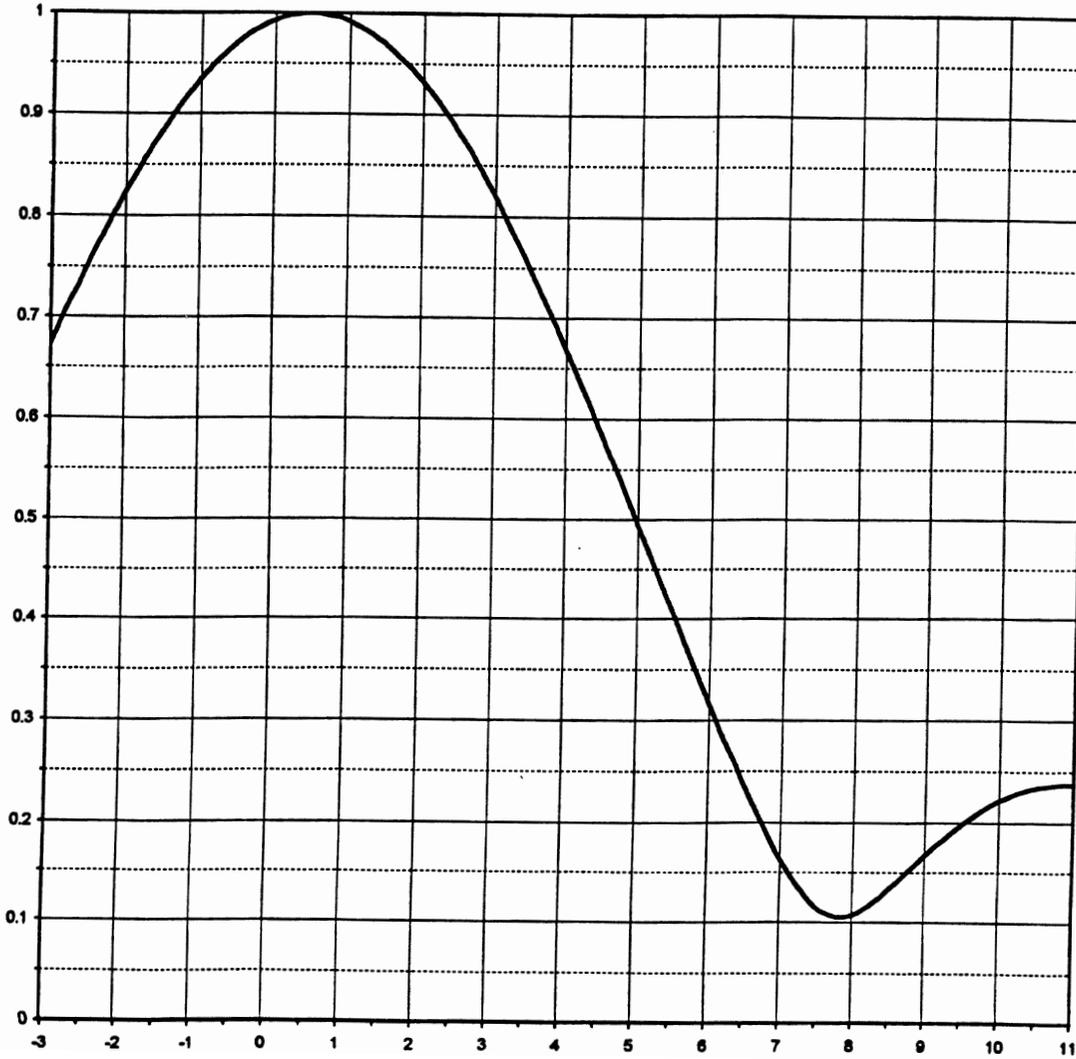
EXHIBIT E1-2A
PLOT OF ELEVATION PATTERN OF ANTENNA
RADIO STATION WRR



Proposal Number
Date **10-Jan-03**
Call Letters
Location **Dallas, TX**
Customer **Cowboy Tower**
Antenna Type **TAC-8FMB-3/24**

ELEVATION PATTERN

RMS Gain at Main Lobe	3.98 (6.00 dB)	Beam Tilt	0.50 deg
RMS Gain at Horizontal	3.90 (5.91 dB)	Frequency	101.10 MHz
Calculated / Measured	Calculated	Drawing #	08C040050



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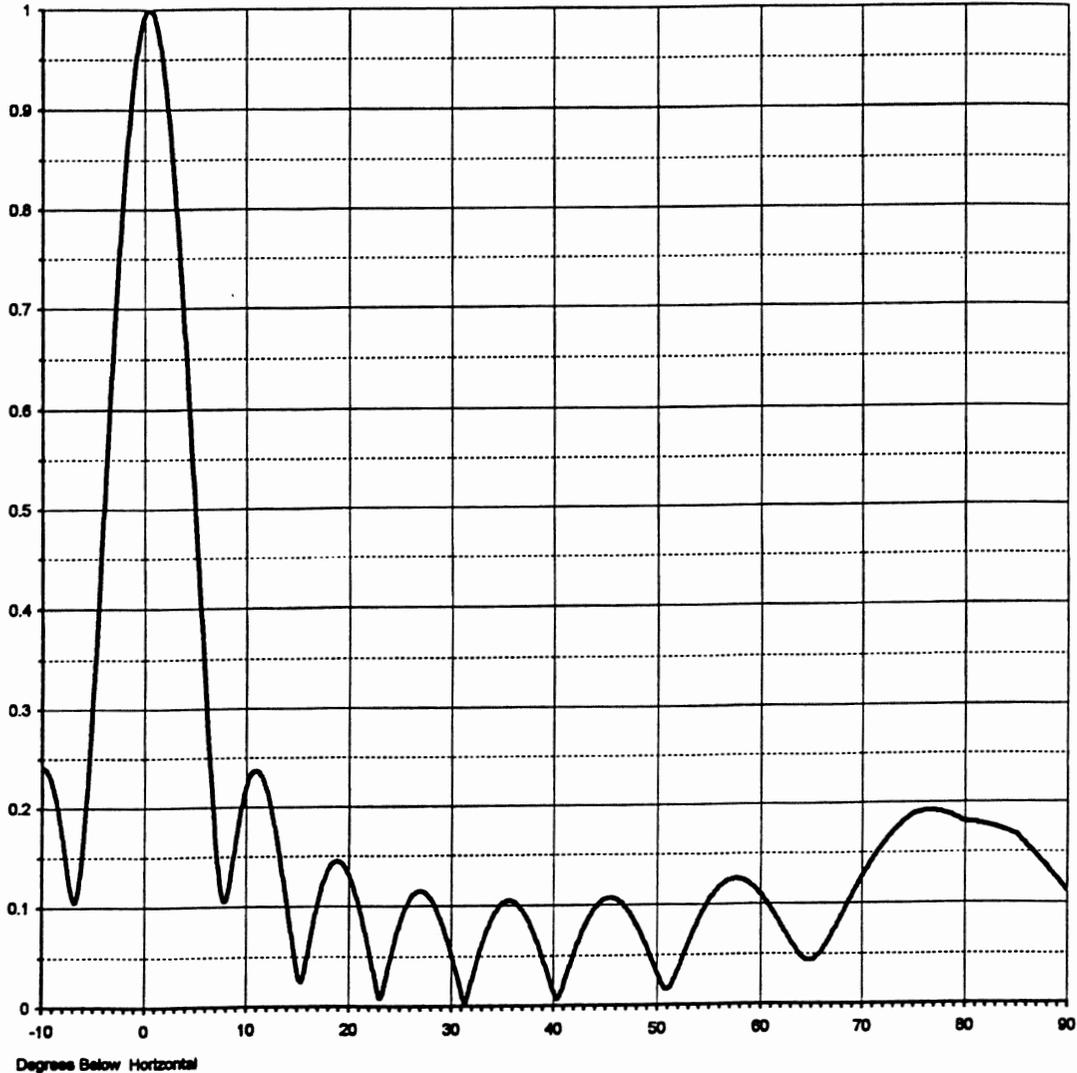
EXHIBIT E1-2B
PLOT OF ELEVATION PATTERN OF ANTENNA
RADIO STATION WRR

Dielectric

Proposal Number
Date **10-Jan-03**
Call Letters
Location **Dallas, TX**
Customer **Cowboy Tower**
Antenna Type **TAC-8FMB-3/24**

ELEVATION PATTERN

RMS Gain at Main Lobe	3.98 (6.00 dB)	Beam Tilt	0.50 deg
RMS Gain at Horizontal	3.90 (5.91 dB)	Frequency	101.10 MHz
Calculated / Measured	Calculated	Drawing #	08C040050-90



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EXHIBIT E1-2C
 TABULATION OF ELEVATION PATTERN OF ANTENNA
 RADIO STATION WRR



Proposal Number
 Date **10-Jan-03**
 Call Letters
 Location **Dallas, TX**
 Customer **Cowboy Tower**
 Antenna Type **TAC-8FMB-3/24**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **08C040050-90**

Angle	Field										
-10.0	0.241	2.4	0.893	10.8	0.234	30.5	0.036	51.0	0.016	71.5	0.151
-9.5	0.237	2.8	0.870	10.8	0.236	31.0	0.017	51.5	0.022	72.0	0.158
-9.0	0.223	2.8	0.846	11.0	0.237	31.5	0.003	52.0	0.033	72.5	0.165
-8.5	0.200	3.0	0.820	11.5	0.233	32.0	0.023	52.5	0.047	73.0	0.171
-8.0	0.168	3.2	0.792	12.0	0.221	32.5	0.041	53.0	0.060	73.5	0.176
-7.5	0.133	3.4	0.763	12.5	0.200	33.0	0.058	53.5	0.072	74.0	0.181
-7.0	0.107	3.6	0.733	13.0	0.174	33.5	0.073	54.0	0.084	74.5	0.185
-6.5	0.116	3.8	0.701	13.5	0.142	34.0	0.085	54.5	0.094	75.0	0.189
-6.0	0.185	4.0	0.668	14.0	0.108	34.5	0.094	55.0	0.103	75.5	0.190
-5.5	0.237	4.2	0.635	14.5	0.072	35.0	0.101	55.5	0.110	76.0	0.192
-5.0	0.320	4.4	0.600	15.0	0.039	35.5	0.104	56.0	0.117	76.5	0.192
-4.5	0.408	4.6	0.565	15.5	0.025	36.0	0.105	56.5	0.121	77.0	0.192
-4.0	0.498	4.8	0.530	16.0	0.047	36.5	0.102	57.0	0.124	77.5	0.191
-3.5	0.587	5.0	0.494	16.5	0.075	37.0	0.096	57.5	0.125	78.0	0.190
-3.0	0.673	5.2	0.458	17.0	0.100	37.5	0.088	58.0	0.125	78.5	0.188
-2.8	0.708	5.4	0.422	17.5	0.120	38.0	0.077	58.5	0.124	79.0	0.186
-2.6	0.737	5.6	0.386	18.0	0.134	38.5	0.064	59.0	0.121	79.5	0.184
-2.4	0.768	5.8	0.351	18.5	0.143	39.0	0.049	59.5	0.117	80.0	0.181
-2.2	0.797	6.0	0.316	19.0	0.146	39.5	0.034	60.0	0.111	80.5	0.180
-2.0	0.824	6.2	0.282	19.5	0.143	40.0	0.018	60.5	0.105	81.0	0.180
-1.8	0.850	6.4	0.250	20.0	0.134	40.5	0.007	61.0	0.098	81.5	0.179
-1.6	0.874	6.6	0.219	20.5	0.121	41.0	0.018	61.5	0.090	82.0	0.178
-1.4	0.896	6.8	0.190	21.0	0.103	41.5	0.034	62.0	0.081	82.5	0.177
-1.2	0.917	7.0	0.163	21.5	0.082	42.0	0.049	62.5	0.072	83.0	0.175
-1.0	0.935	7.2	0.140	22.0	0.059	42.5	0.063	63.0	0.064	83.5	0.174
-0.8	0.951	7.4	0.122	22.5	0.035	43.0	0.076	63.5	0.056	84.0	0.172
-0.6	0.965	7.6	0.110	23.0	0.011	43.5	0.087	64.0	0.049	84.5	0.170
-0.4	0.977	7.8	0.105	23.5	0.018	44.0	0.095	64.5	0.044	85.0	0.168
-0.2	0.986	8.0	0.107	24.0	0.040	44.5	0.101	65.0	0.044	85.5	0.163
0.0	0.993	8.2	0.115	24.5	0.061	45.0	0.106	65.5	0.047	86.0	0.157
0.2	0.998	8.4	0.126	25.0	0.079	45.5	0.107	66.0	0.052	86.5	0.152
0.4	1.000	8.6	0.139	25.5	0.094	46.0	0.106	66.5	0.060	87.0	0.147
0.6	1.000	8.8	0.153	26.0	0.105	46.5	0.103	67.0	0.069	87.5	0.141
0.8	0.997	9.0	0.167	26.5	0.112	47.0	0.098	67.5	0.078	88.0	0.136
1.0	0.992	9.2	0.180	27.0	0.115	47.5	0.091	68.0	0.088	88.5	0.130
1.2	0.984	9.4	0.192	27.5	0.114	48.0	0.082	68.5	0.098	89.0	0.124
1.4	0.974	9.6	0.203	28.0	0.108	48.5	0.072	69.0	0.108	89.5	0.118
1.6	0.962	9.8	0.208	28.5	0.099	49.0	0.060	69.5	0.117	90.0	0.112
1.8	0.948	10.0	0.217	29.0	0.087	49.5	0.047	70.0	0.127		
2.0	0.932	10.2	0.224	29.5	0.072	50.0	0.034	70.5	0.135		
2.2	0.913	10.4	0.230	30.0	0.055	50.5	0.022	71.0	0.143		

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EXHIBIT E1-3
CALCULATION OF TRANSMITTER POWER OUTPUT
RADIO STATION WRR
CHANNEL 266C, 98 KW-HOR, 100 KW-MAX, 508 MTRS AAT
DALLAS, TEXAS

The transmitter power outputs of the analog and digital transmitters were calculated on the basis of the antenna gain and loss data for the transmission lines and combining filters furnished by the manufacturer. The master antenna system for the Cowboy Tower at Cedar Hill, Texas was manufactured by Harris Corporation and the transmission lines and filters were manufactured by Dielectric Communications which acted as the general contractor for the installation. Dielectric has since absorbed the Harris Antenna Division. The antenna system is designed for nine full power Class C transmission systems and one Class C1 transmission system. The system presently accommodates eight Class C transmission systems including that of Station WRR.

The transmitting antenna is an eight level, three element per level cavity backed radiator located on a ten foot face tower. The upper four sections are fed with a single 6-1/8 inch diameter rigid transmission line. The lower four sections are fed with an identical line. The two lines are fed with equal power levels by a power divider located in the combiner room of the FM Transmitter Building adjacent to the tower. The combining filters for each of the eight stations connected to the antenna system are located in the combiner room.

The WRR transmitters are located in the Television Transmitter Building adjacent to the FM Transmitter building. The combined outputs of the analog and digital transmitters are fed to the WRR Combining Filter by a 200 foot length of 4-1/16 inch rigid transmission line.

The transmitter power output calculations appear below:

<u>GAINS:</u>	<u>ANTENNA</u>	<u>ANTENNA INPUT POWER:</u>		
	3.98 (MAX)	100 KW/3.98 = 25.13 KW		
	3.90 (HOR)			
<u>LOSSES:</u>	<u>WRR FILTER</u>	<u>XMSN LINE & PWR DVDR</u>	<u>WRR XMSN LINE</u>	<u>TOTAL</u>
	-0.418 dB	-0.725 dB	-0.15 dB	-1.298 dB

POWER INPUT TO WRR TRANSMISSION LINE:

$$25.13 \text{ KW} / 0.7417 = 33.876 \text{ KW}$$

ANALOG TRANSMITTER OUTPUT:

$$33.876 \text{ KW} / 0.90 = \underline{37.64 \text{ KW}} \quad \text{REJECT POWER} = \underline{3.76 \text{ KW}}$$

DIGITAL TRANSMITTER OUTPUT:

$$0.3388 \text{ KW} / 0.1 = \underline{3.39 \text{ KW}} \quad \text{REJECT POWER} = \underline{3.05 \text{ KW}}$$

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EXHIBIT E1-4
SECTION 73.317 COMPLIANCE
RADIO STATION WRR
CHAN. 266C, 98 KW-HOR, 100 KW-MAX, 508 MTRS AAT
DALLAS, TEXAS

The measurements demonstrating compliance with Section 73.317 (b) through 73.317(d) were made by the undersigned on May 15, 2006 using the test setup attached herein as Exhibit E1-4(a). An Advantest R3463 spectrum analyzer was connected to the forward power directional coupler of the combiner output line of the Cowboy Tower master antenna system. The directional coupler was manufactured by Dielectric Communications and supplied as part of the original installation. This port has a coupling loss of 59 dB. The directional coupler was terminated in a 3 dB, 5 watt attenuator. A twenty five foot length of RG-223/U double shielded coaxial cable was connected between the attenuator output and a 20 dB, 5 watt attenuator connected to the spectrum analyzer. The analyzer bears serial number J-003053 and was calibrated by a certified laboratory on April 12, 2006.

The system was first calibrated with an unmodulated carrier to full scale on the spectrum analyzer at a reference level of -7.7 dBm. The resolution bandwidth was maintained at 1.0 kilohertz as recommended by Iqivity and the sweep speed was adjusted automatically according to the frequency span. This permits an instrument dynamic range greater than 83 dBc without the need for individual filters.

Occupied bandwidth measurements centered around the operating frequency appear herein on pages 1 through 3. It is evident that the WRR transmission system complies with Section 73.317(b) of the Rules as well as the NRSC-5 emission mask.

The spurious emissions measurements were made from 76 megahertz through 1 gigahertz with particular emphasis on calculated third order intermodulation combinations between the WRR operating frequency of 101.1 megahertz and the other seven stations on the master antenna system. These frequencies begin at 78.9 megahertz and extend to 212.2 megahertz. The spectral photographs for the potential intermodulation responses appear herein on pages 4 through 9. Pages 9 through 13 cover the region through 1.0 gigahertz.

Where suspicious responses were encountered, each was individually investigated. Where the response could be traced to a station operating from a nearby tower, such as the channel 5 television plant noted on page 5, it is so identified. Where a station operating from the Cowboy Tower Master Antenna system was encountered, such as those on pages 5 and 6, the individual stations are obvious and are not identified. Only very low level responses near -80 dBc relative to station WRR are individually identified. Two suspicious responses were identified on page 6 in the

vicinity of 105.696 megahertz and 106.616 megahertz. The absolute levels of both responses were subject to changes with time of up ten decibels. The WRR Cowboy Tower transmitter was turned off and service resumed from the Milton Tower transmitter, the present main transmitter, located nearby while the responses were observed. No significant difference in levels was noted. The Milton Tower transmitter was turned off and service was resumed from the Dallas Fair Park auxiliary transmitter. No apparent difference in level of either response was observed. It is concluded that none of the WRR facilities contribute significantly to the products.

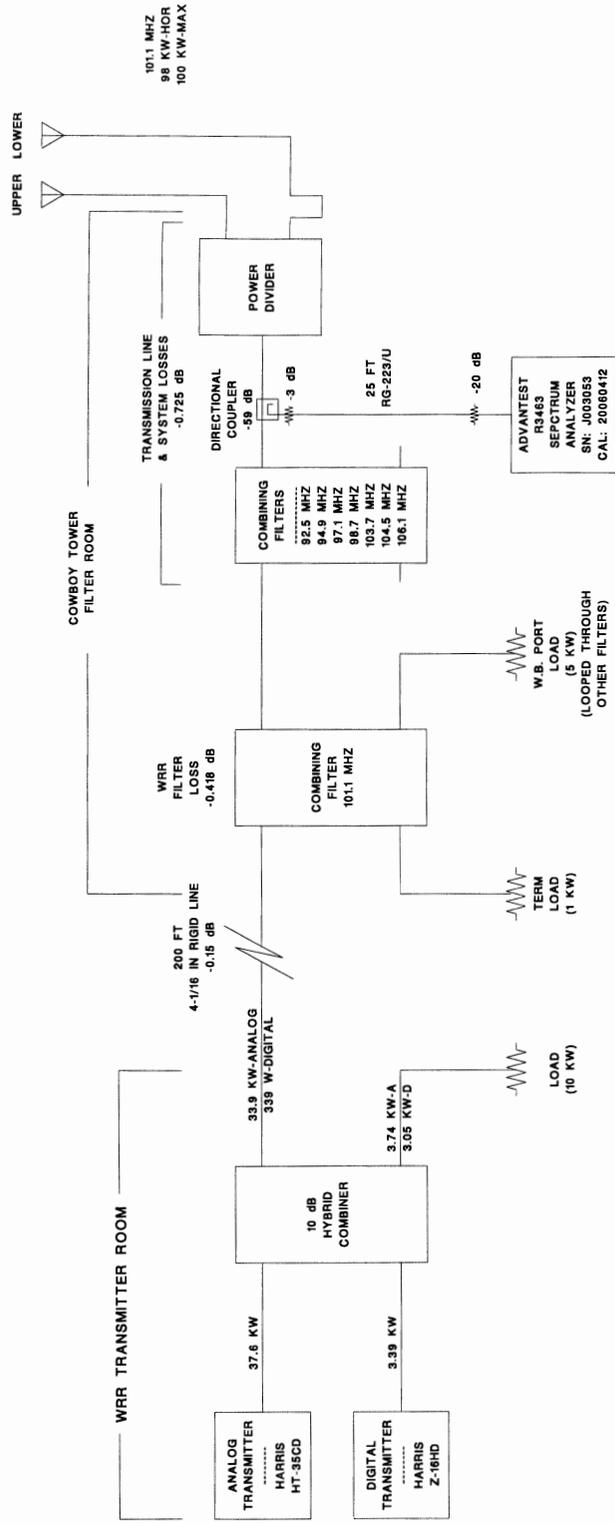
Particular attention was devoted to the air navigation band from 108 through 118 megahertz and the aircraft communications band from 118 through 136 megahertz. No products were noted within this group of frequencies as noted on pages 7 and 8.

The individual harmonic frequencies for station WRR were examined on a narrow band basis with a slow sweep permitting observation of each harmonic to greater than 90 dBc. No responses were observed greater than 90 dBc for any harmonic from the second to the ninth.

Finally the balance of the band through 1000 megahertz was examined and found to be free of any responses above -80 dBc relative to the WRR analog transmitter carrier.

CONCLUSIONS

In summary, no attributable responses at levels greater than -80 dB relative to the WRR unmodulated carrier were observed. It is therefore concluded that the new WRR Main Transmission System meets or exceeds the requirements of Section 73.317 of the Rules.

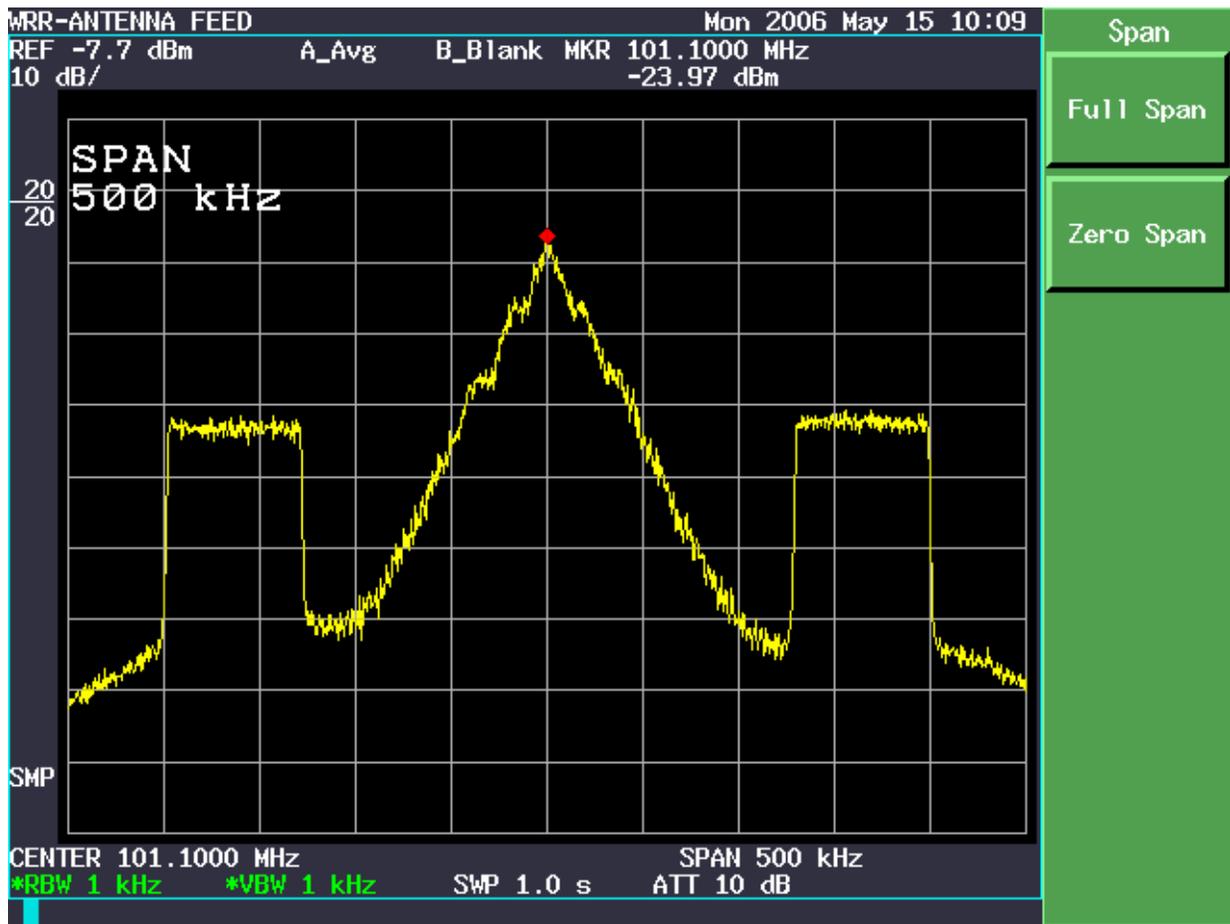


PROJECT NO:	SELLMEYER ENGINEERING
PREPARED:	P.O. Box 356 McKinney, Texas 75070
CHECKED:	BLOCK DIAGRAM-TRANSMITTER PLANT
APPROVED:	RADIO STATION WRR CHANNEL 286C, 98 KW-H; 100 KW MAX; 508 M AAT DALLAS, TEXAS
DWG NO	REV.
DATE	E1-4(b)
SHEET: 1 OF 1	

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MEMBER AFCCE

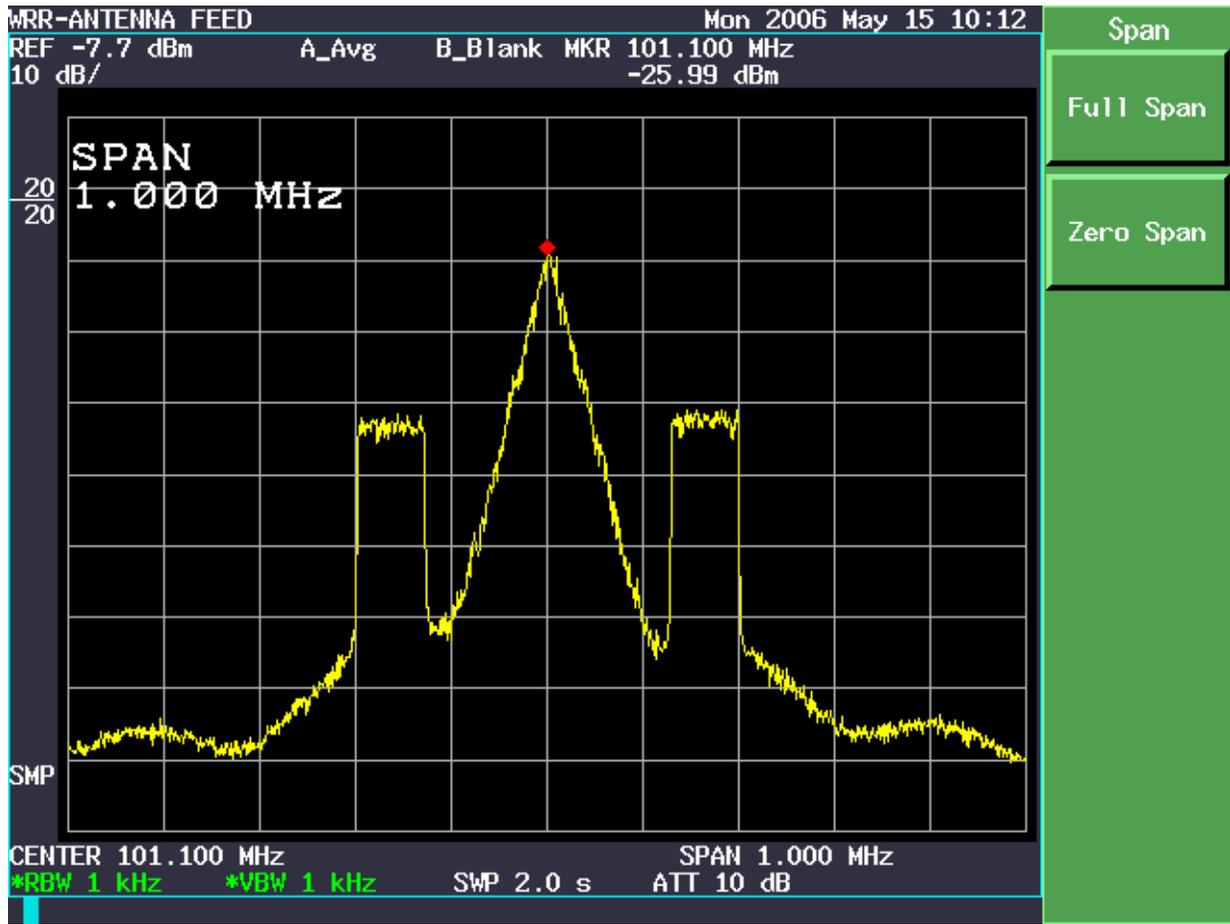
EXHIBIT E1-4
SECTION 73.317 COMPLIANCE MEASUREMENTS
RADIO STATION WRR
CHAN. 266C, 98 KW-HOR, 100 KW-MAX, 508 MTRS AAT
DALLAS, TEXAS

OCCUPIED BANDWIDTH
CARRIER +/- 250 KHZ



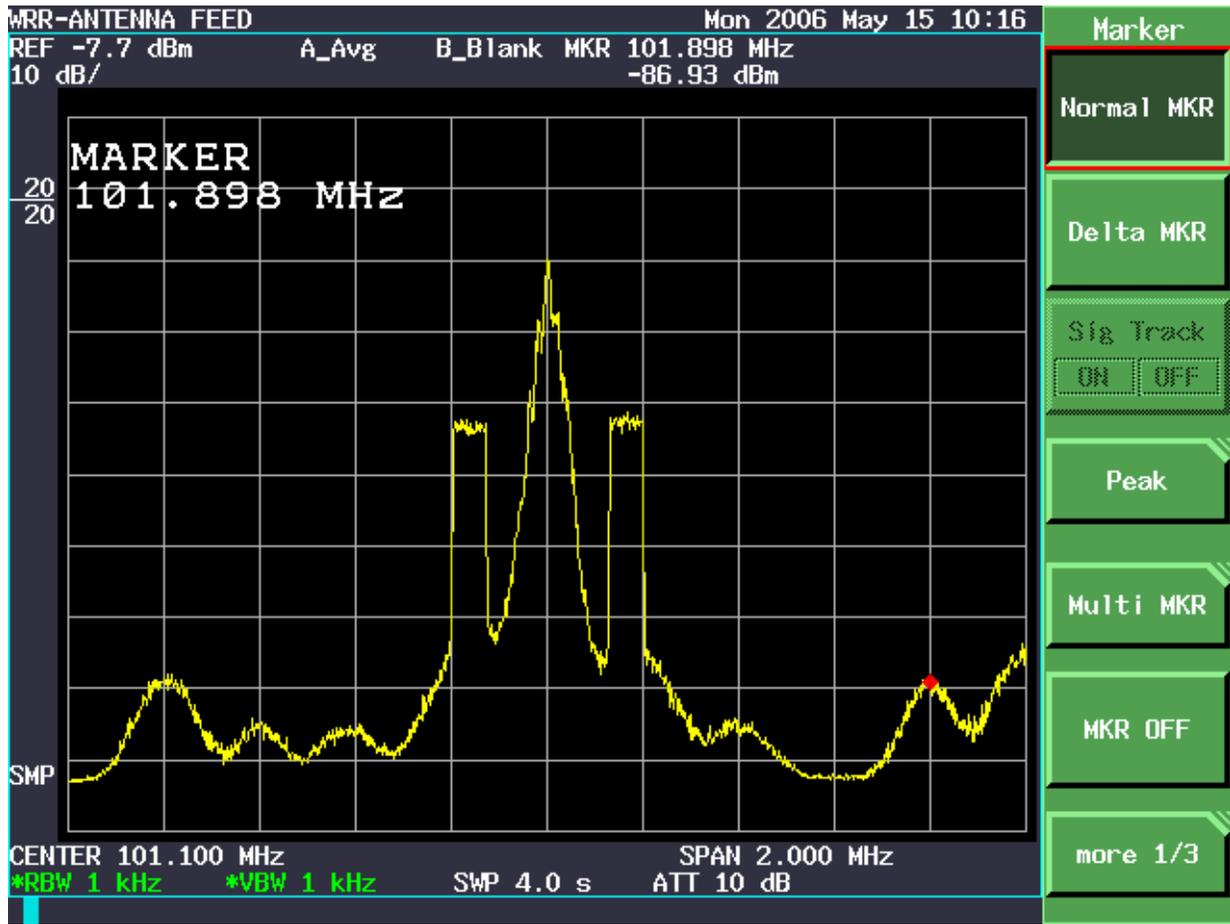
Unmodulated carrier set to full scale (-7.7 dBm)

**RADIO STATION WRR
OCCUPIED BANDWIDTH
CARRIER +/- 500 KHZ**



Unmodulated carrier set to full scale (-7.7 dBm)

**RADIO STATION WRR
OCCUPIED BANDWIDTH
CARRIER +/- 2.0 MHZ**



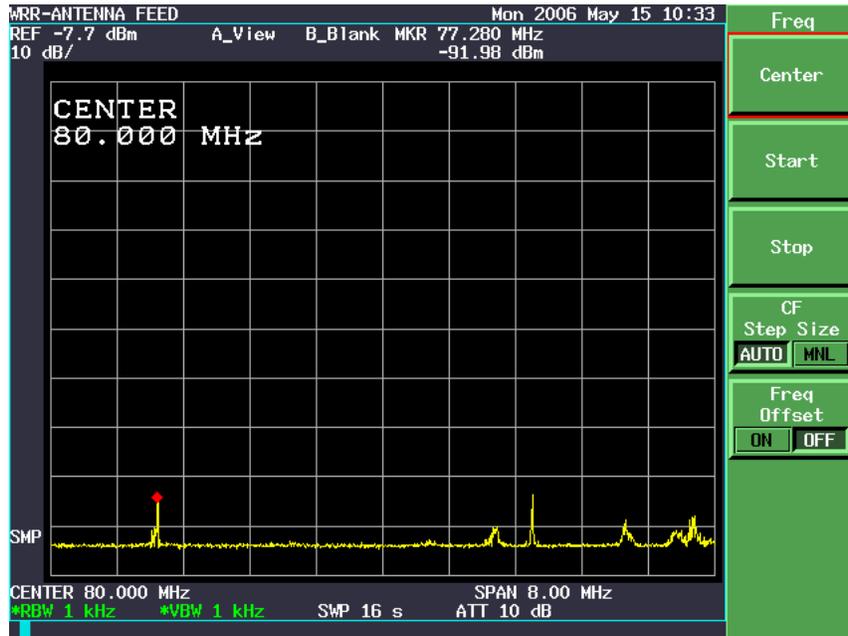
Unmodulated carrier set to full scale (-7.7 dBm)

<u>DELTA F</u>	<u>IDENTIFICATION</u>	<u>RELATIVE LVL</u>
-800 KHZ	KJKK	-79.20 dBc
+800 KHZ	UNKOWN	-79.23 dBc

Neither response is related to WRR

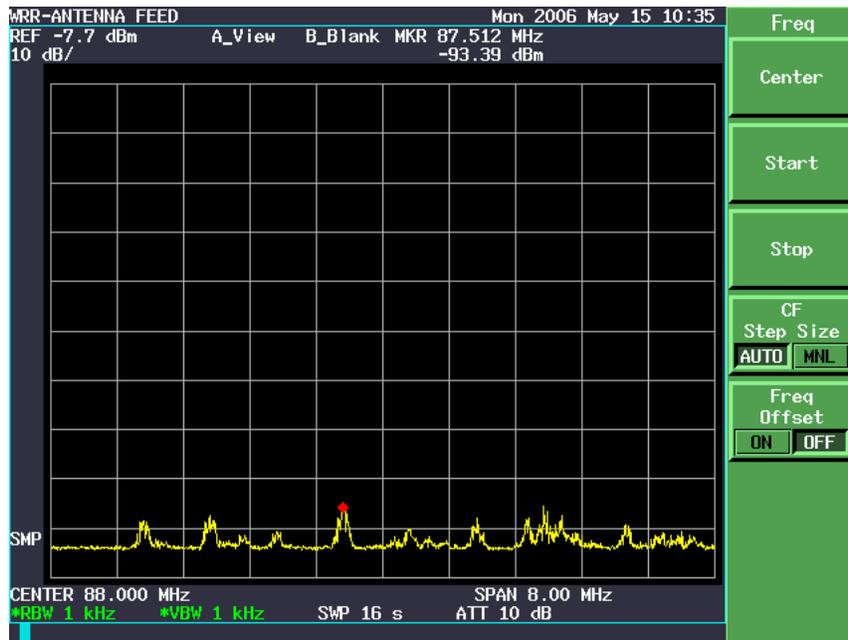
RADIO STATION WRR
SPECTRUM RESPONSE IN 3RD ORDER INTERMODULATION REGIONS

76 – 84 MHz/C.F. = 80 MHz



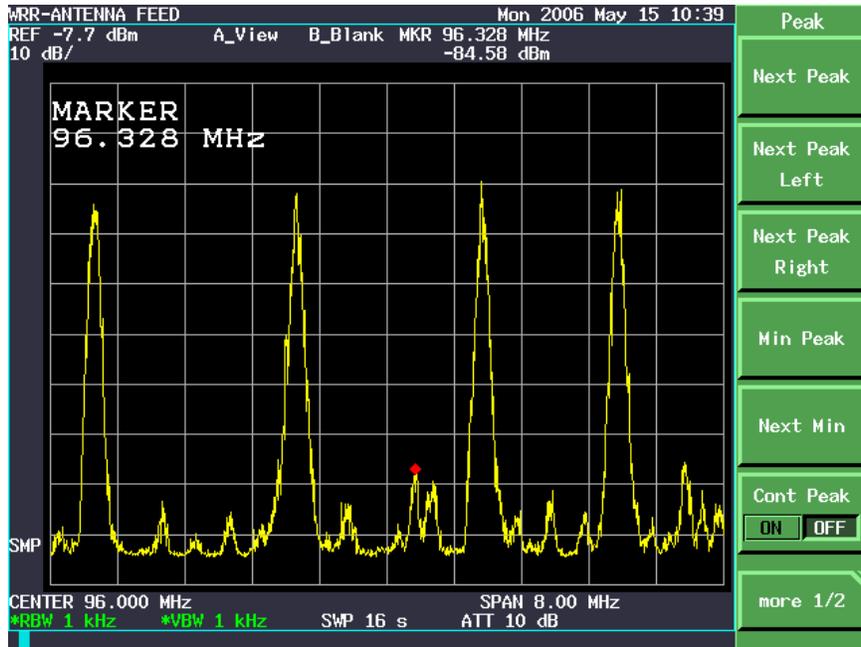
<u>FREQUENCY</u>	<u>RELATIVE LEVEL</u>	<u>IDENTIFICATION</u>
77.280	-84.28 dBc	CHANNEL – 5 TV

84 – 92 MHz/C.F. = 88 MHz



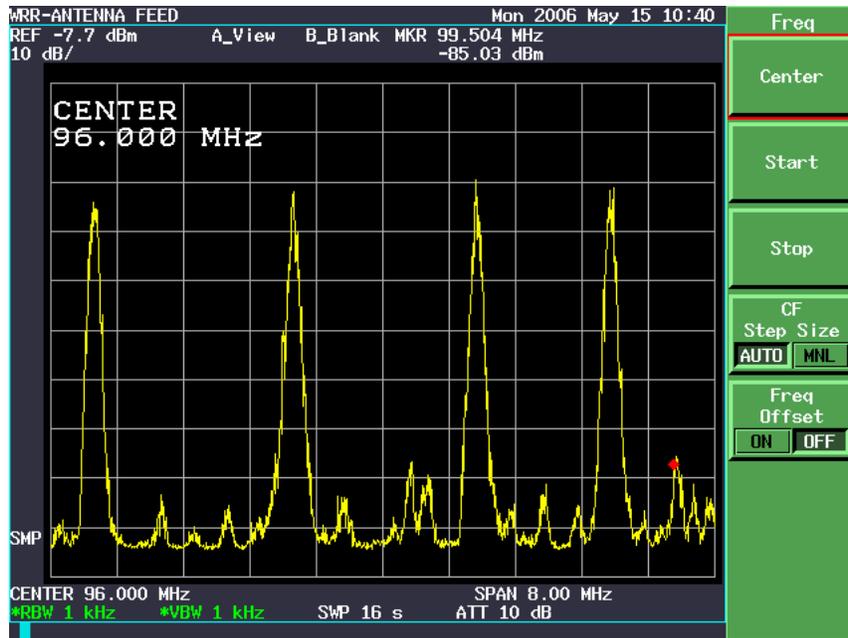
NO RESPONSE ABOVE -80 dBc

RADIO STATION WRR
92 – 100 MHz/C.F. = 96 MHz



<u>FREQUENCY</u>	<u>RELATIVE LEVEL</u>	<u>IDENTIFICATION</u>
96.328	-76.88 dBc	KSCS

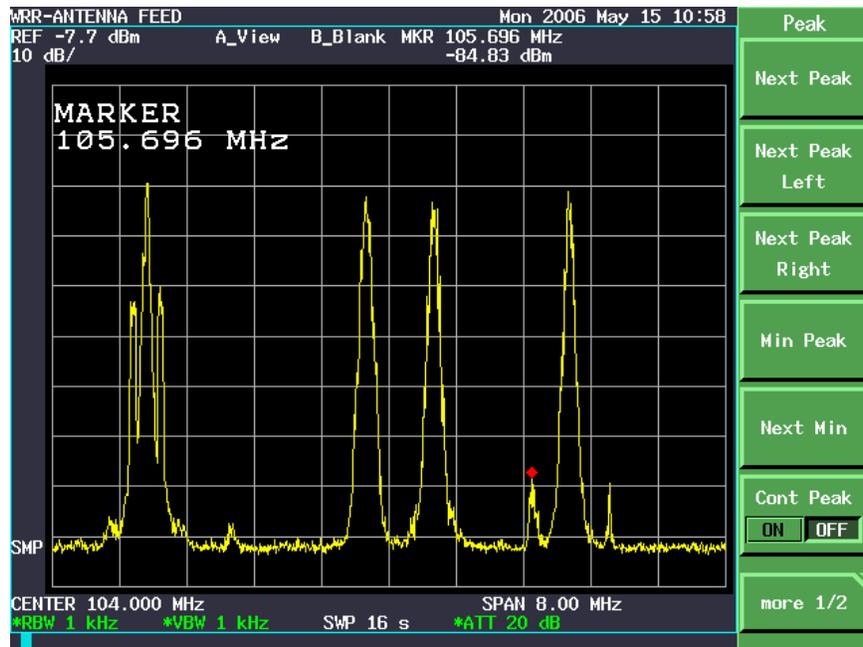
92 – 100 MHz/C.F. = 96 MHz



<u>FREQUENCY</u>	<u>RELATIVE LEVEL</u>	<u>IDENTIFICATION</u>
99.500	77.33 dBc	KPLX

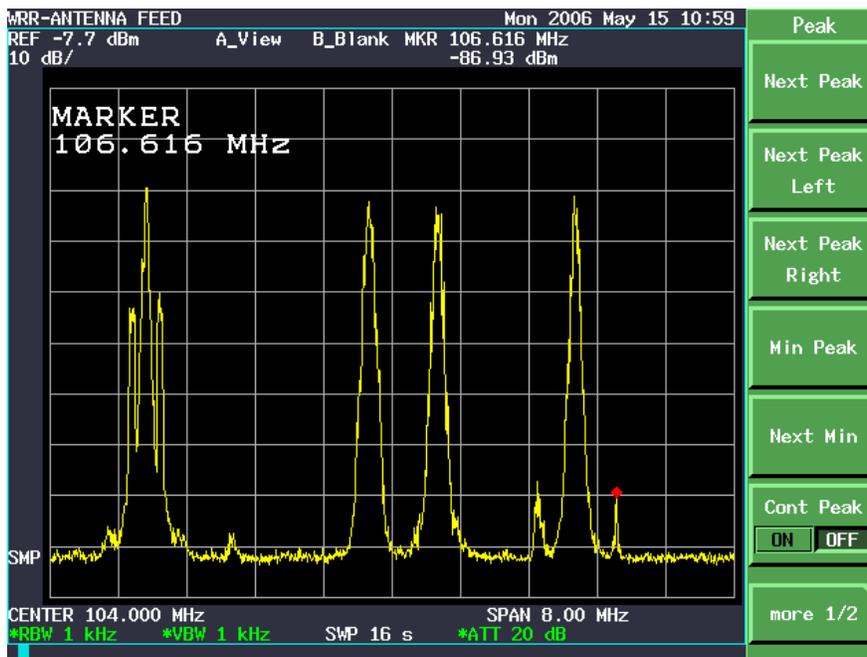
RADIO STATION WRR

100 - 108 MHz/C.F. = 104 MHz



<u>FREQUENCY</u>	<u>RELATIVE LEVEL</u>	<u>IDENTIFICATION</u>
105.696 MHz	77.13 dBc	UNKNOWN
NOT RELATED TO WRR		

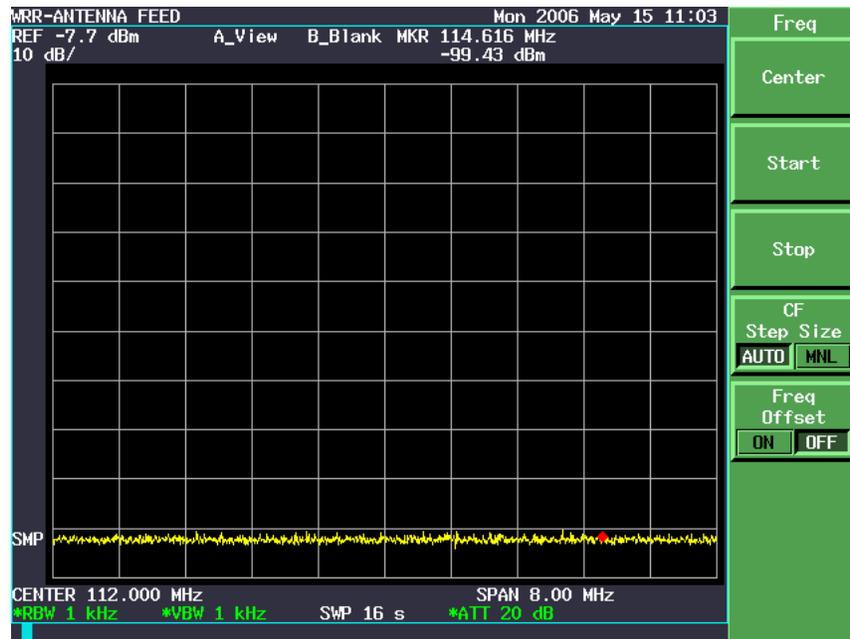
100 - 108 MHz/C.F. = 104 MHz



<u>FREQUENCY</u>	<u>RELATIVE LEVEL</u>	<u>IDENTIFICATION</u>
106.616 MHz	79.23 dBc	UNKNOWN
NOT RELATED TO WRR		

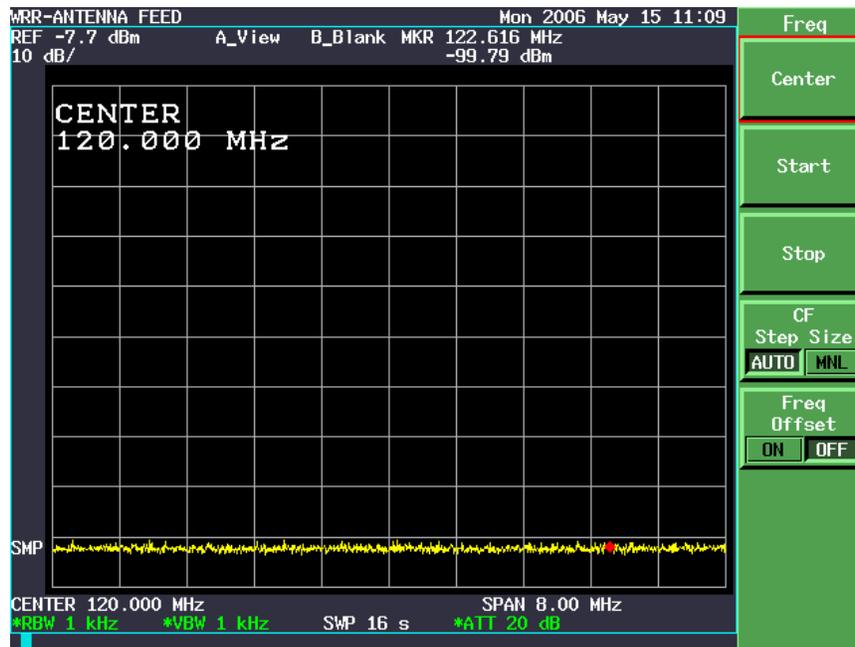
RADIO STATION WRR

108 – 116 MHz/C.F. = 112 MHz



NO RESPONSE ABOVE -80 dBc

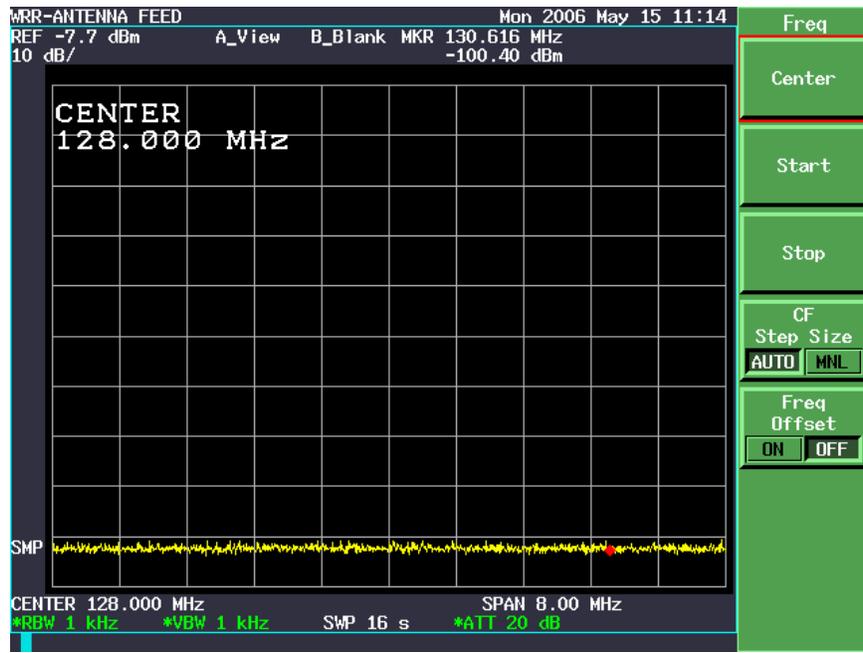
116 – 124 MHz/C.F. = 120 MHz



NO RESPONSE ABOVE -80 dBc

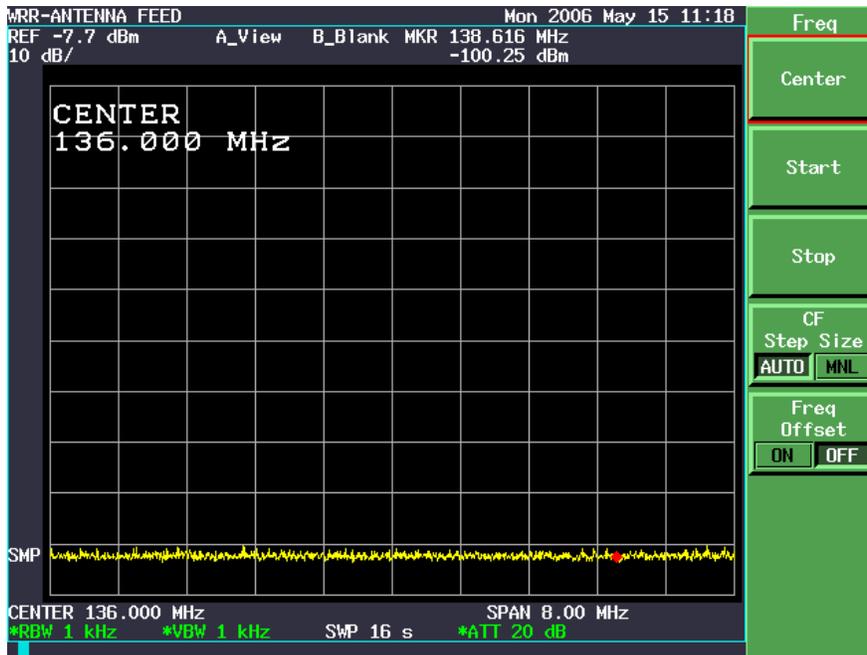
RADIO STATION WRR

124 - 132 MHz/C.F. = 128 MHz



NO RESPONSE ABOVE -80 dBc

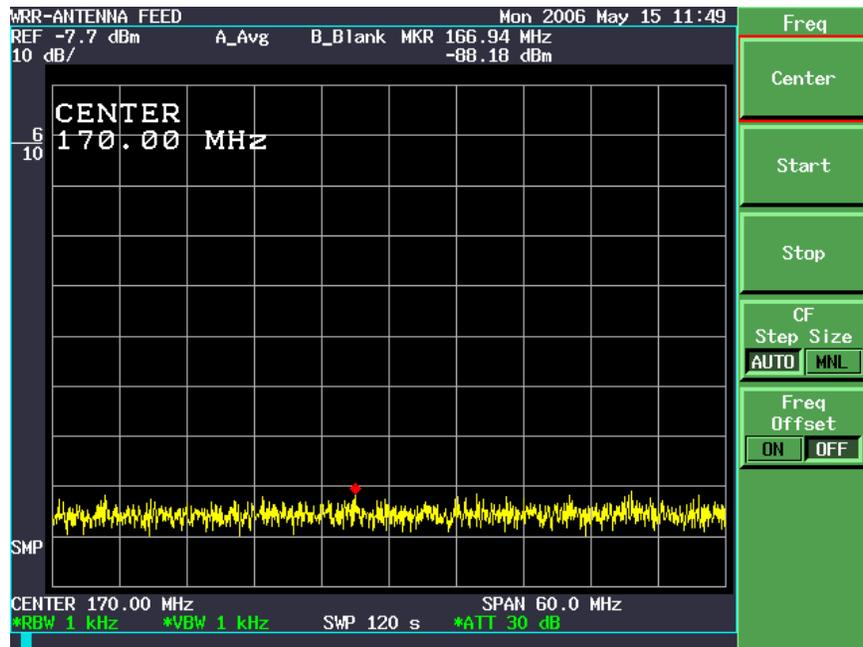
132 - 140 MHz/C.F. = 136 MHz



NO RESPONSE ABOVE -80 dBc

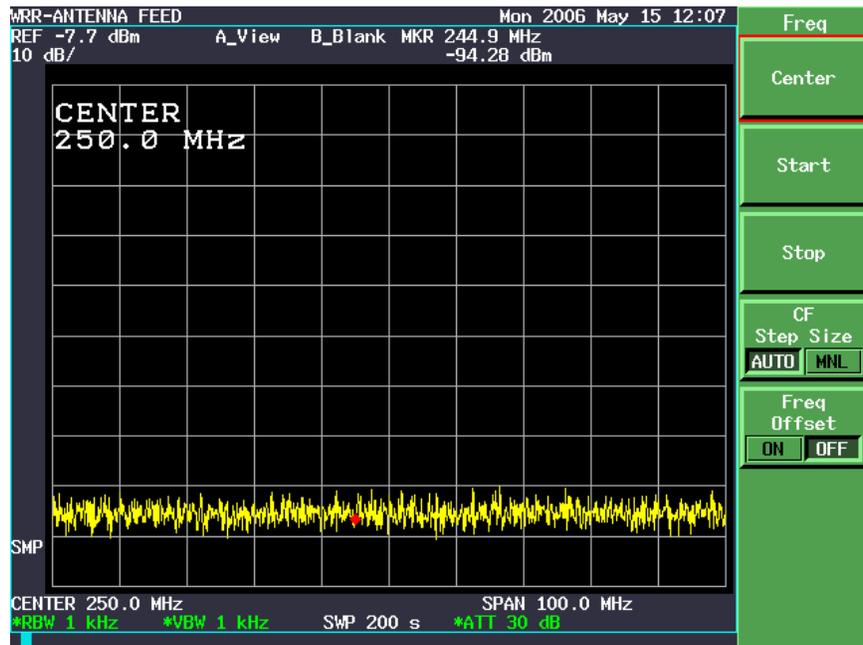
RADIO STATION WRR

140 – 200 MHz/C.F. = 170 MHz



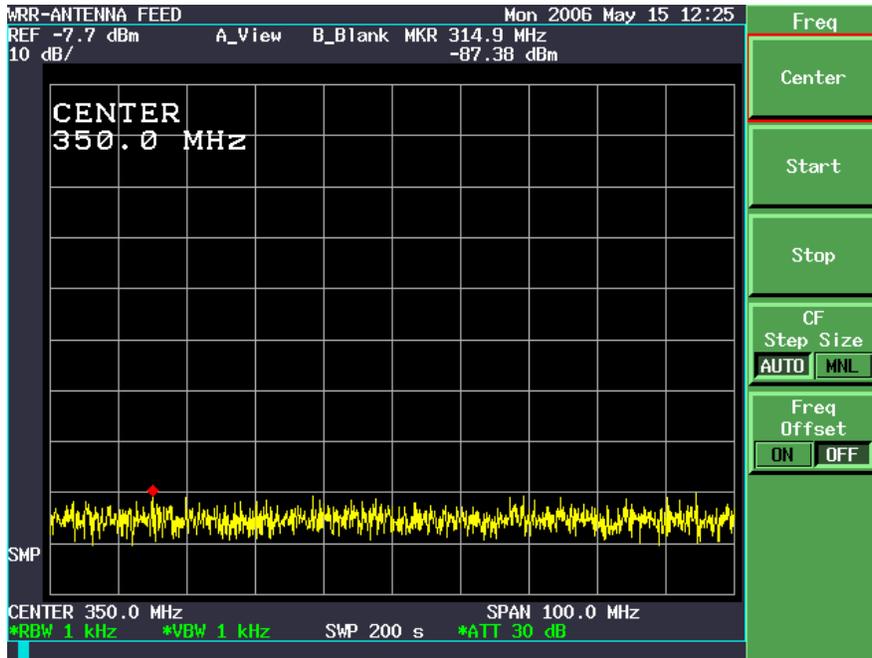
NO RESPONSE ABOVE -80 dBc

200 – 300 MHz/C.F. = 250 MHz



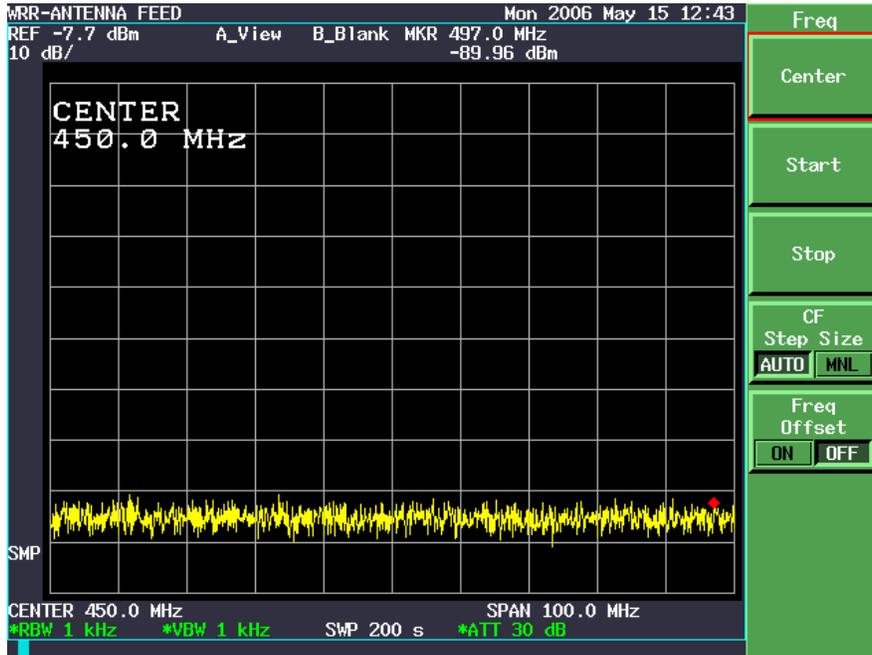
NO RESPONSE ABOVE -80 dBc

RADIO STATION WRR
300 – 400 MHz/C.F. = 350 MHz



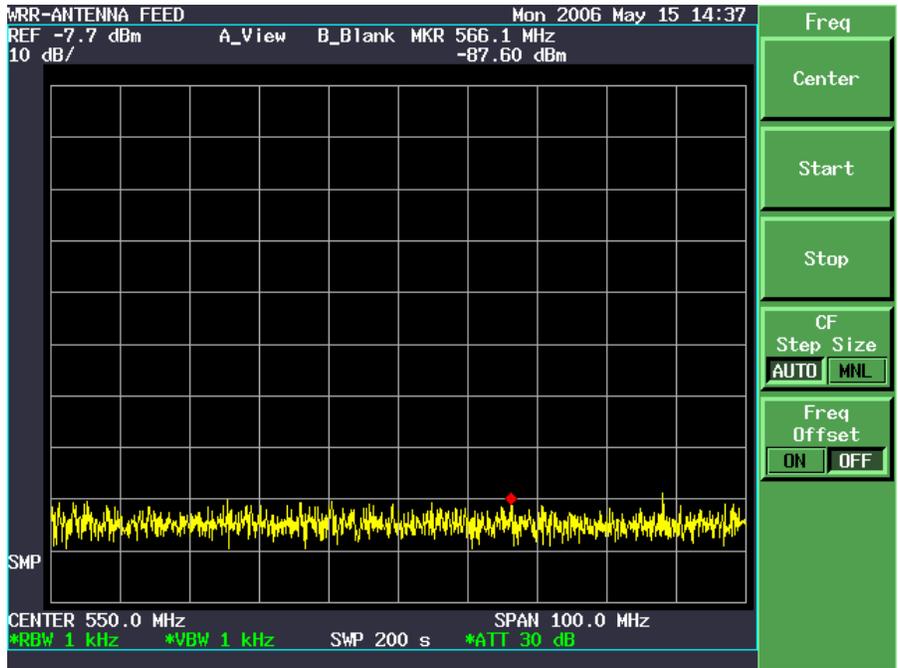
NO RESPONSE ABOVE -80 dBc

400 – 500 MHz/C.F. = 450 MHz



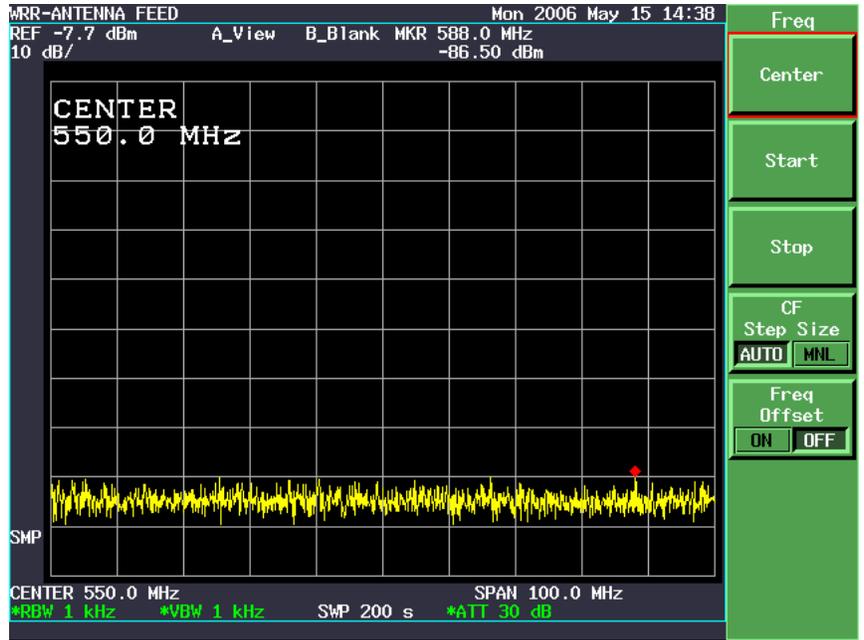
NO RESPONSE ABOVE -80 dBc

RADIO STATION WRR
500 – 600 MHz/C.F. = 550 MHz



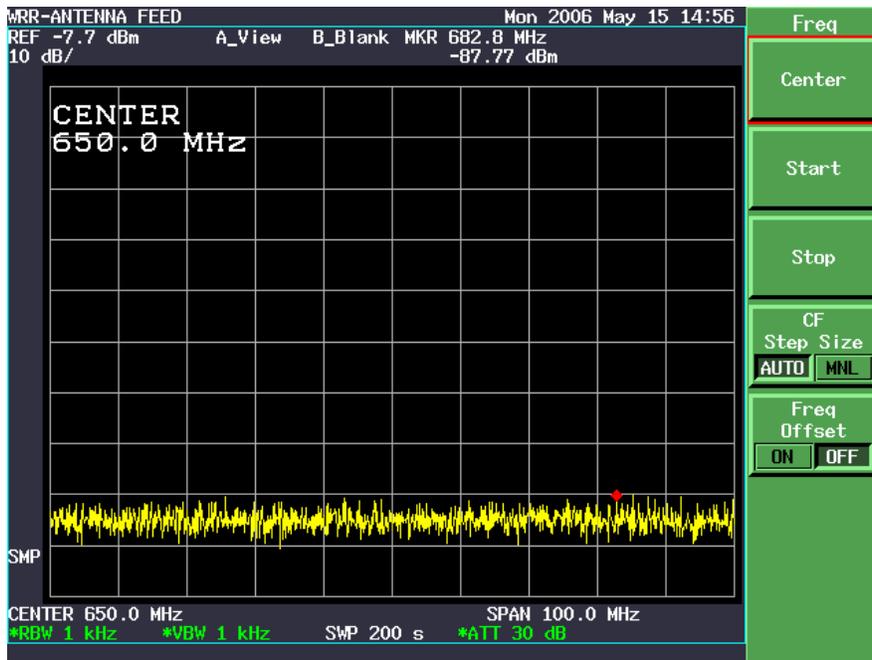
NO RESPONSE ABOVE -80 dBc

500 – 600 MHz/C.F. = 550 MHz



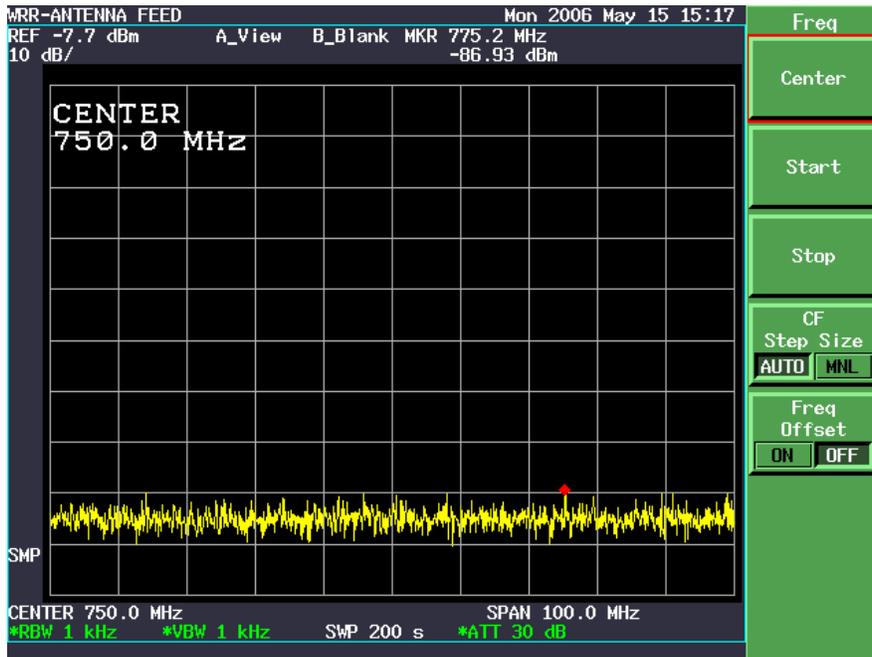
NO RESPONSE ABOVE -80 dBc

RADIO STATION WRR
600 – 700 MHz/C.F. = 650 MHz



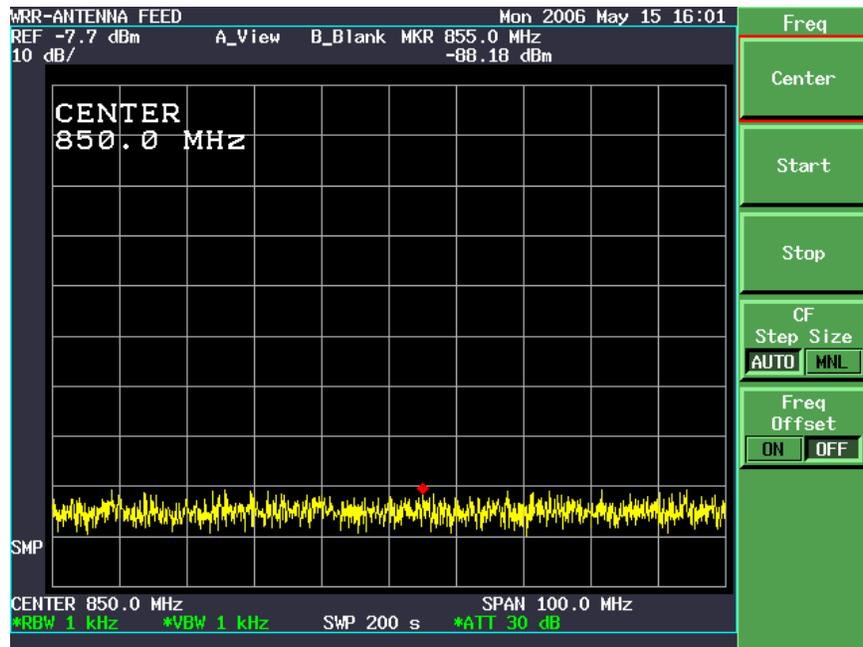
NO RESPONSE ABOVE -80 dBc

700 – 800 MHz/C.F. = 750 MHz



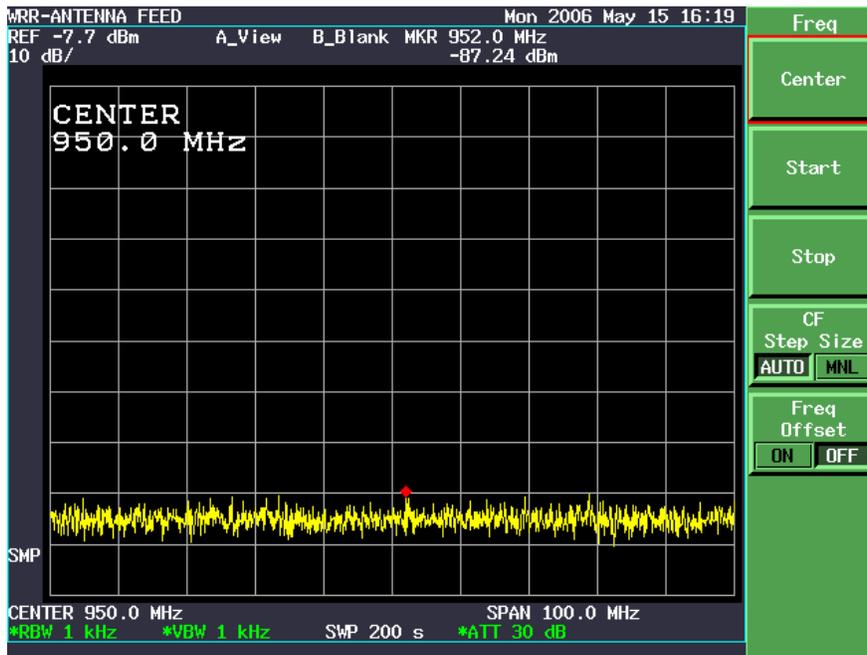
NO RESPONSE ABOVE -80 dBc

RADIO STATION WRR
800 – 900 MHz/C.F. = 850 MHz



NO RESPONSE ABOVE -80 dBc

900 – 1000 MHz/C.F. = 950 MHz



NO RESPONSE ABOVE -80 dBc

SELLMEYER ENGINEERING
BROADCAST & COMMUNICATION CONSULTING ENGINEERS
P. O. Box 356 McKinney, Texas 75070
MEMBER AFCCE

CERTIFICATION OF ENGINEER

I hereby state that:

I am President of Sellmeyer Engineering

The Firm of Sellmeyer Engineering has been retained by the City of Dallas, Texas to prepare this Engineering Exhibit

I am a graduate of Arizona State University with the degree of Bachelor of Science in Engineering

I am a Registered Professional Engineer in the States of Ohio and Texas

My qualifications as an Engineer are a matter of record with the Federal Communications Commission

This Engineering Exhibit was prepared by me personally or under my direct supervision, and

All facts stated herein are true and correct to the best of my knowledge and belief.



J. S. Sellmeyer, P. E.

May 18, 2006

P. O. Box 356
McKinney, Texas 75070
214-495-9764

