


## Occupied Bandwidth and Spurious Emissions Measurements

Measurements were conducted to demonstrate that KSAB(FM), Robstown, TX operating into a combined auxiliary antenna system, complies with section 73.317(b) through 73.317(d) of the FCC Rules and Regulations as specified in "Special operating conditions or restrictions" 2 of the KSAB(FM) construction permit BXPB-20130905ABT.

The most likely intermodulation frequencies in the range 2.5 MHz to 550 MHz that could be produced by the combined operation of KMXR(FM), KRYF(FM) and KSAB(FM) and harmonic frequencies through the 5<sup>th</sup> harmonic were calculated and the results of the measurements at these frequencies are listed in Table 1.

While special attention was given to the "product" frequencies listed in Table 1, measurements were conducted covering the entire range of frequencies between 2.5 MHz and 550 MHz. Over this frequency range, no signals were detected at levels greater than 80 dB below the fundamental.

The results of these measurements confirm that the combined operations of KSAB(FM) into the shared auxiliary antenna is in full compliance with section 73.317(b) through 73.317(d) of the FCC Rules and Regulations.

  
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# Table 1

	FREQ (MHz)	REFERENCE LEVEL (dBm)
Frequency A	99.9	-1
Frequency B	99.1	
Frequency C	93.9	

DESCRIPTION	FREQ. MHZ	MEASURED LEVEL (dBm)	FILTER LOSS (dB)	ATTENUATION (dBc)
A + B	199	> -88	-1.4	> -85.6
A - B	0.8	> -88	-1.4	> -85.6
A + (2 X B)	298.1	> -88	-1.4	> -85.6
B + (2 X A)	298.9	> -88	-1.4	> -85.6
A + (3 X B)	397.2	> -88	-1.4	> -85.6
B + (3 X A)	398.8	> -88	-1.4	> -85.6
2 X A	199.8	> -88	-1.4	> -85.6
(2 X A) - B	100.7	> -88	-3	> -84
2 X B	198.2	> -88	-1.4	> -85.6
(2 X B) - A	98.3	> -88	-2.9	> -84.1
(2 X A) + (2 X B)	398	> -88	-1.4	> -85.6
(2 X A) - (2 X B)	1.6	> -88	-1.4	> -85.6
(2 X A) + (3 X B)	497.1	> -88	-1.4	> -85.6
(2 X B) + (3 X A)	497.9	> -88	-1.4	> -85.6
3 X A	299.7	> -88	-1.4	> -85.6
(3 X A) - B	200.6	> -88	-1.4	> -85.6
3 X B	297.3	> -88	-1.4	> -85.6
(3 X B) - A	197.4	> -88	-1.4	> -85.6
(3 X A) - (2 X B)	101.5	> -88	-0.5	> -86.5
(3 X B) - (2 X A)	97.5	-82	-0.7	-80.3
(3 X A) - (3 X B)	2.4	> -88	-1.4	> -85.6
A + C	193.8	> -88	-1.4	> -85.6
A - C	6	> -88	-1.4	> -85.6
A + (2 X C)	287.7	> -88	-1.4	> -85.6
C + (2 X A)	293.7	> -88	-1.4	> -85.6
A + (3 X C)	381.6	> -88	-1.4	> -85.6
C + (3 X A)	393.6	> -88	-1.4	> -85.6
(2 X A) - C	105.9	> -88	-1.4	> -85.6
2 X C	187.8	> -88	-1.4	> -85.6
(2 X C) - A	87.9	> -88	-1.4	> -85.6
(2 X A) + (2 X C)	387.6	> -88	-1.4	> -85.6
(2 X A) - (2 X C)	12	> -88	-1.4	> -85.6
(2 X A) + (3 X C)	481.5	> -88	-1.4	> -85.6
(2 X C) + (3 X A)	487.5	> -88	-1.4	> -85.6
(3 X A) - C	205.8	> -88	-1.4	> -85.6

Measured signal identified as KFTX-FM

3 X C	281.7	>	-88	-1.4	>	-85.6
(3 X C) - A	181.8	>	-88	-1.4	>	-85.6
(3 X A) - (2 X C)	111.9	>	-88	-1.4	>	-85.6
(3 X C) - (2 X A)	81.9	>	-88	-1.4	>	-85.6
(3 X A) - (3 X C)	18	>	-88	-1.4	>	-85.6
B + C	193	>	-88	-1.4	>	-85.6
B - C	5.2	>	-88	-1.4	>	-85.6
B + (2 X C)	286.9	>	-88	-1.4	>	-85.6
C + (2 X B)	292.1	>	-88	-1.4	>	-85.6
B + (3 X C)	380.8	>	-88	-1.4	>	-85.6
C + (3 X B)	391.2	>	-88	-1.4	>	-85.6
(2 X B) - C	104.3	>	-88	-1.4	>	-85.6
(2 X C) - B	88.7		-81	-1.4		-78.6
(2 X B) + (2 X C)	386	>	-88	-1.4	>	-85.6
(2 X B) - (2 X C)	10.4	>	-88	-1.4	>	-85.6
(2 X B) + (3 X C)	479.9	>	-88	-1.4	>	-85.6
(2 X C) + (3 X B)	485.1	>	-88	-1.4	>	-85.6
(3 X B) - C	203.4	>	-88	-1.4	>	-85.6
(3 X C) - B	182.6	>	-88	-1.4	>	-85.6
(3 X B) - (2 X C)	109.5	>	-88	-1.4	>	-85.6
(3 X C) - (2 X B)	83.5	>	-88	-1.4	>	-85.6
(3 X B) - (3 X C)	15.6	>	-88	-1.4	>	-85.6
4 X A	399.6	>	-88	-1.4	>	-85.6
4 X B	396.4	>	-88	-1.4	>	-85.6
4 X C	375.6	>	-88	-1.4	>	-85.6
5 X A	499.5	>	-88	-1.4	>	-85.6
5 X B	495.5	>	-88	-1.4	>	-85.6
5 X C	469.5	>	-88	-1.4	>	-85.6

Measured signal identified as KKLM-FM

**97.5 and 88.7 were found to be originating from KFTX and KKLM.**