

Spurious Emissions Measurement for K245DC

Spectrum measurements to detect unwanted intermodulation products and other spurious emissions were conducted on Americom Limited Partnership's combined FM antenna system located on McClellan Peak in Carson City, Nevada.

These measurements were made using an Anritsu MS2721A Spectrum Analyzer on August 31, 2018. Both translators, K245DC and K249ES were operating at full power via the combined antenna system.

Sweeps of the entire FM band were performed both with and without K245DC operating. As can be seen on the following spectrum analyzer plots, no spurious emissions were observed from the addition of K245DC to the antenna system.

The signal displayed at 96.9 MHz with K245DC not operating is from K245BV in Reno.

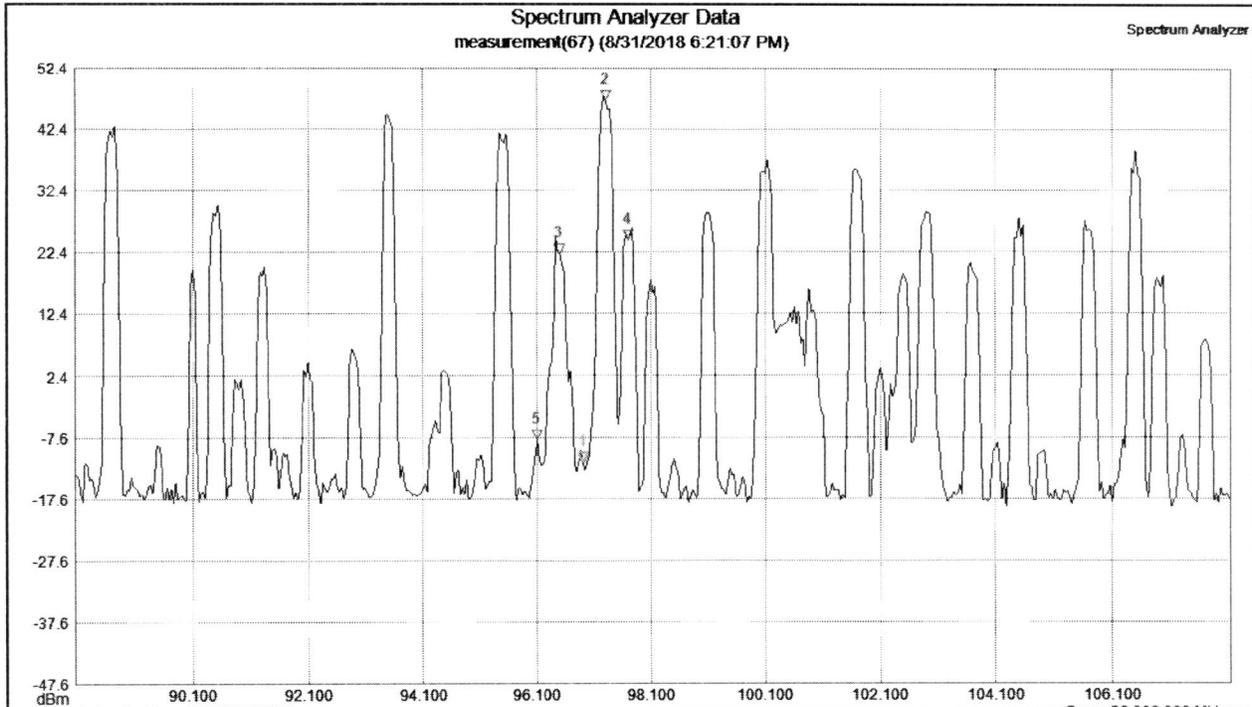
These measurements were taken inside the equipment room at the base of the tower.

It is thus believed that the addition of K245DC to the combined antenna system is compliant with 47CFR 73.317(b-d) in that there are no undesired spurious or mix products generated.

A handwritten signature in black ink, appearing to read "Dennis Christensen". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Dennis Christensen

September 4, 2018



Measurement Parameters			
Trace Mode	Max Hold	Start Frequency	88.100 000 MHz
Trace Mode	Max Hold	Stop Frequency	108.100 000 MHz
Preamp	OFF	Frequency Span	20.000 000 MHz
Min Sweep Time	5E-05 S	Reference Level	6.300 dBm
Reference Level Offset	-46.1 dB	Scale	10.0 dB/div
Input Attenuation	30.0 dB	Serial Number	647154
REW	30.0 kHz	Base Ver.	V1.78
VBW	3.0 MHz	App Ver.	V1.79
Detection	Peak	Date	8/31/2018 6:21:07 PM
Center Frequency	98.100 000 MHz	Device Name	

Spectrum Display without K245DC operating

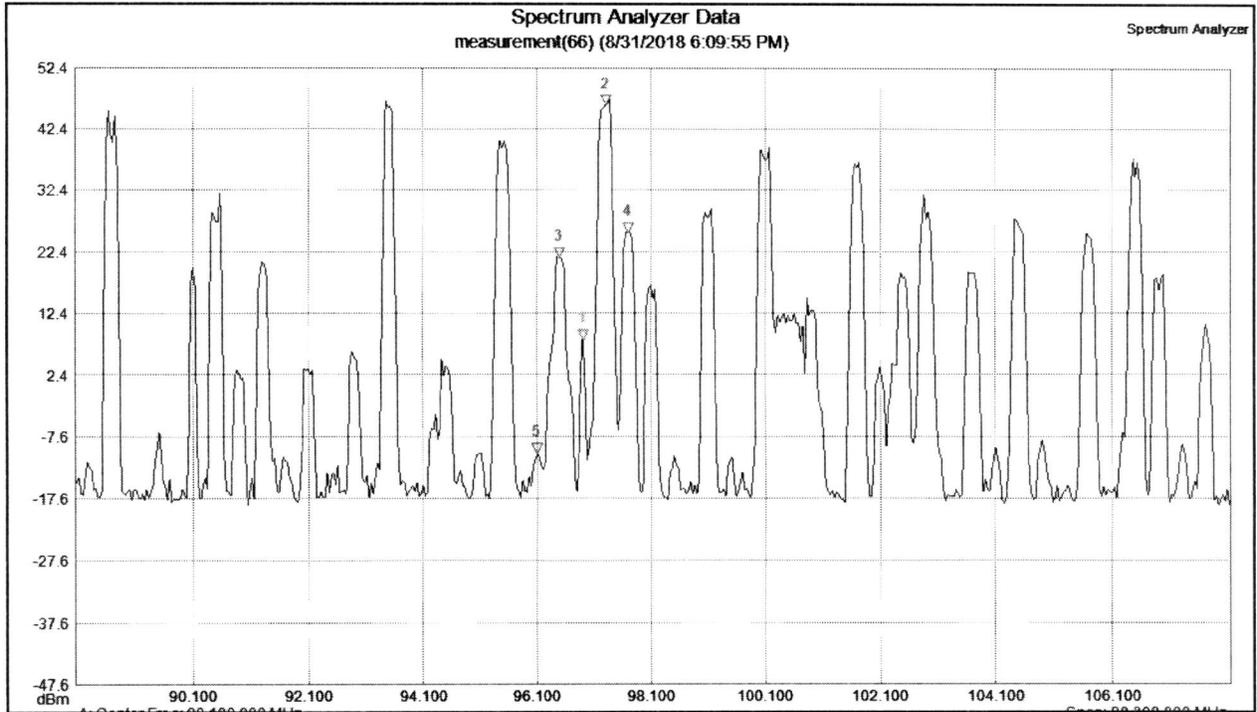
Marker (1) is K245BV (Reno) (96.9)

Marker (2) is KOLC (97.3)

Marker (3) is KLCA (96.5)

Marker (4) is K249ES (97.7)

Marker (5) is K241AK (96.1)



Measurement Parameters			
Trace Mode	Max Hold	Start Frequency	88.100 000 MHz
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Input Attenuation	30.0 dB	Serial Number	647154
RBW	30.0 kHz	Base Ver.	V1.78
VBW	3.0 MHz	App Ver.	V1.79
Detection	Peak	Date	8/31/2018 6:09:55 PM
Center Frequency	98.100 000 MHz	Device Name	

Spectrum Display with K245DC operating

Marker (1) is K245DC (96.9)

Marker (2) is KOLC (97.3)

Marker (3) is KLCA (96.5)

Marker (4) is K249ES (97.7)

Marker (5) is K241AK (96.1)