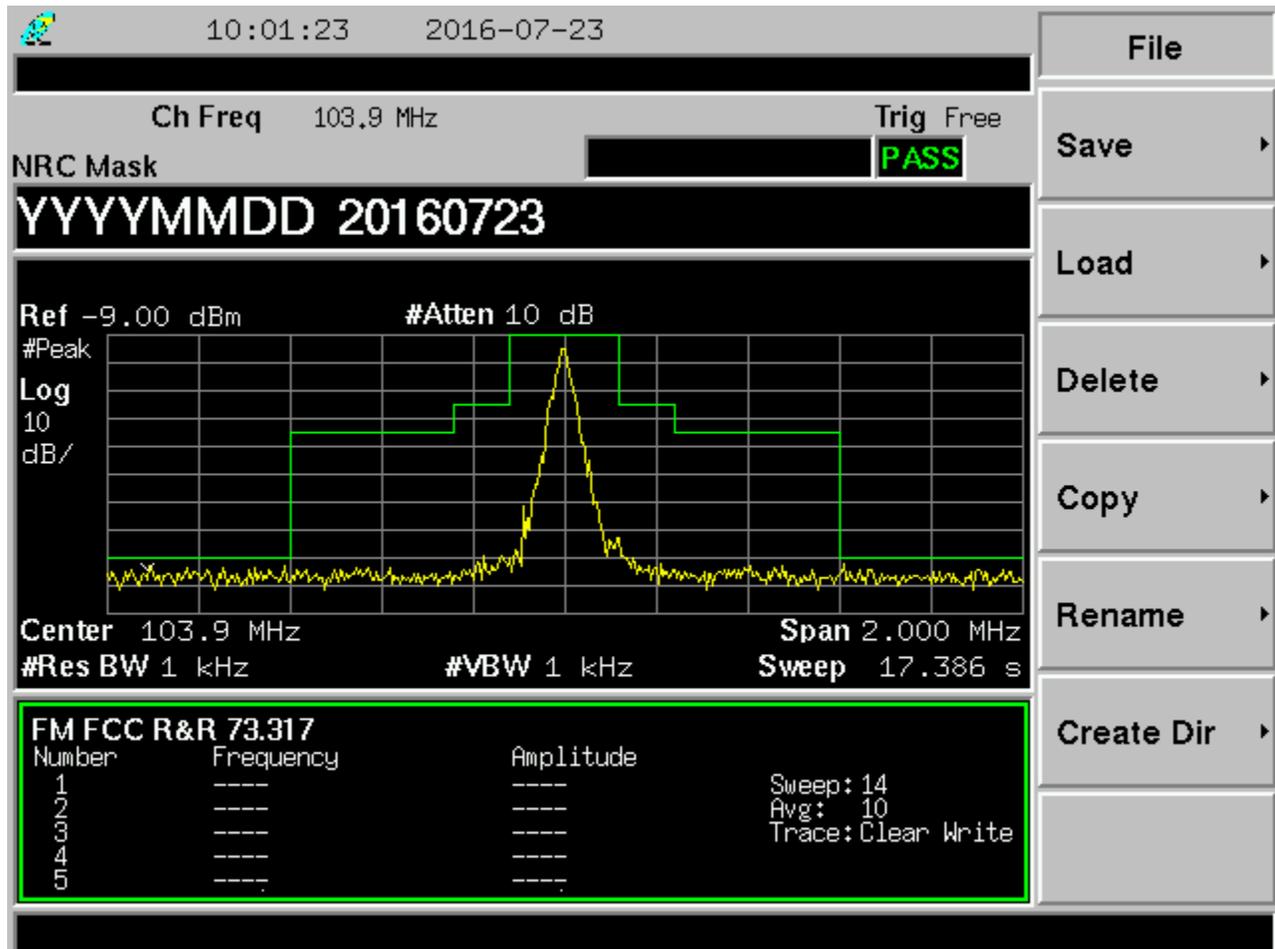


Report of compliance of 73.317 for K231CT

On 7-23-16 spectrum measurements were made to detect unwanted intermodulation products were made at the transmission site for KSVM 103.9, KTNH 107.3, and K231CT. The transmission site is located in Walla Walla, WA.

The power levels were set at 100% tpo and modulation was set and checked for each station. This was done using a narda 3020A directional coupler and a LPT3000 spectrum analyzer. I used 3 MFC tunable notch filters to notch out the 3 carrier frequencies and checked for all potential calculated intermod products in addition to checking the rest of the frequencies up to 1 GHz. The harmonic measurements were made using a Mini circuits 15542 hi pass filter (175 mhz and above).





10:04:35

2016-07-23

Ch Freq 107.3 MHz

Trig Free

NRC Mask

PASS

Avg 10

Ref 0.00 dBm

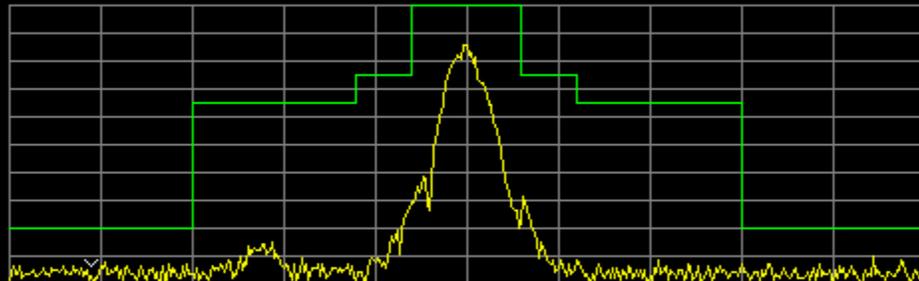
#Atten 10 dB

#Peak

Log

10

dB/



Center 107.3 MHz

Span 2.000 MHz

#Res BW 1 kHz

#VBW 1 kHz

Sweep 17.386 s

FM FCC R&R 73.317

Number	Frequency	Amplitude	
1	----	----	Sweep: 10
2	----	----	Avg: 10
3	----	----	Trace: Clear Write
4	----	----	
5	----	----	

File

Save

Load

Delete

Copy

Rename

Create Dir



10:52:34

2016-07-23

File

Ch Freq 94.10 MHz

Trig Free

NRC Mask

PASS

Save

Load

Delete

Copy

Rename

Create Dir

Ref -4.00 dBm

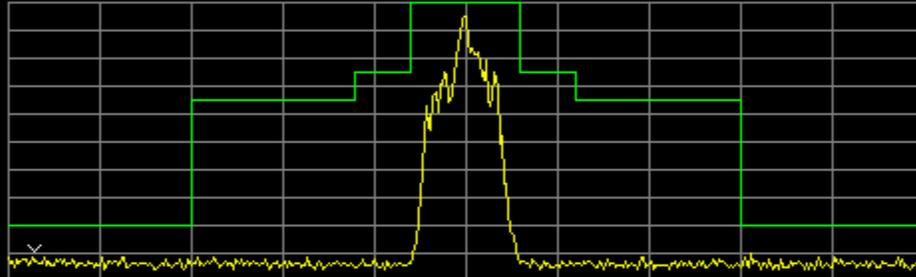
Atten 30 dB

#Peak

Log

10

dB/



Center 94.10 MHz

Span 2.000 MHz

#Res BW 300 Hz

VBW 3 kHz

Sweep 86.696 s

FM FCC R&R 73.317

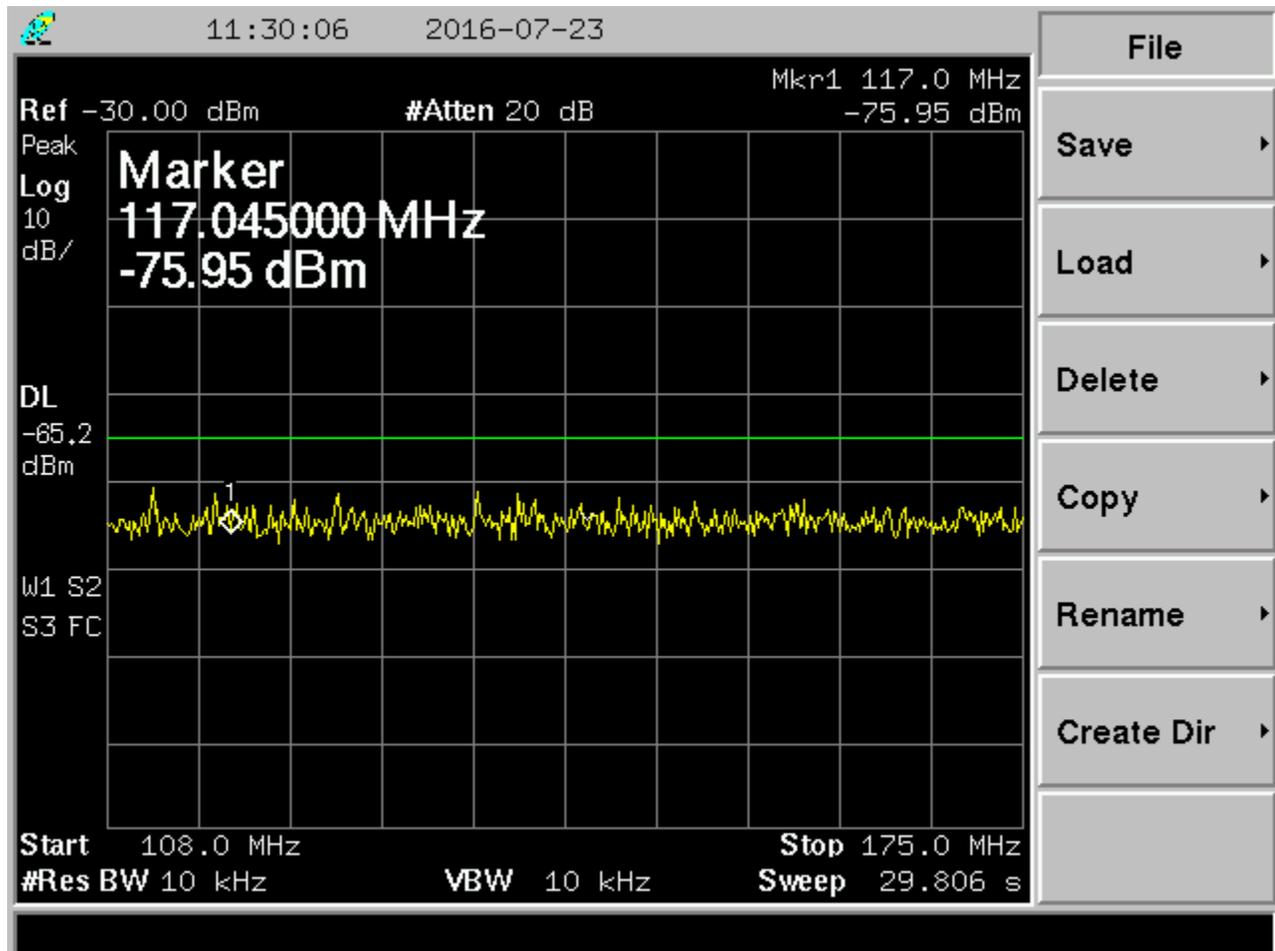
Number	Frequency	Amplitude
1	----	----
2	----	----
3	----	----
4	----	----
5	----	----

Sweep: 10

Avg: 10

Trace: Clear Write

A reference was set at +14.8dbm and a display line was set 80 db below at -65.2 dBm.





11:25:23

2016-07-23

File

Ref -30.00 dBm

#Atten 0 dB

Mkr1 277.3 MHz

-71.83 dBm

Peak

Log

10

dB/

Marker
277.375000 MHz
-75.14 dBm

Save

Load

Delete

Copy

Rename

Create Dir

DL

-65.2

dBm

W1 S2

S3 FC

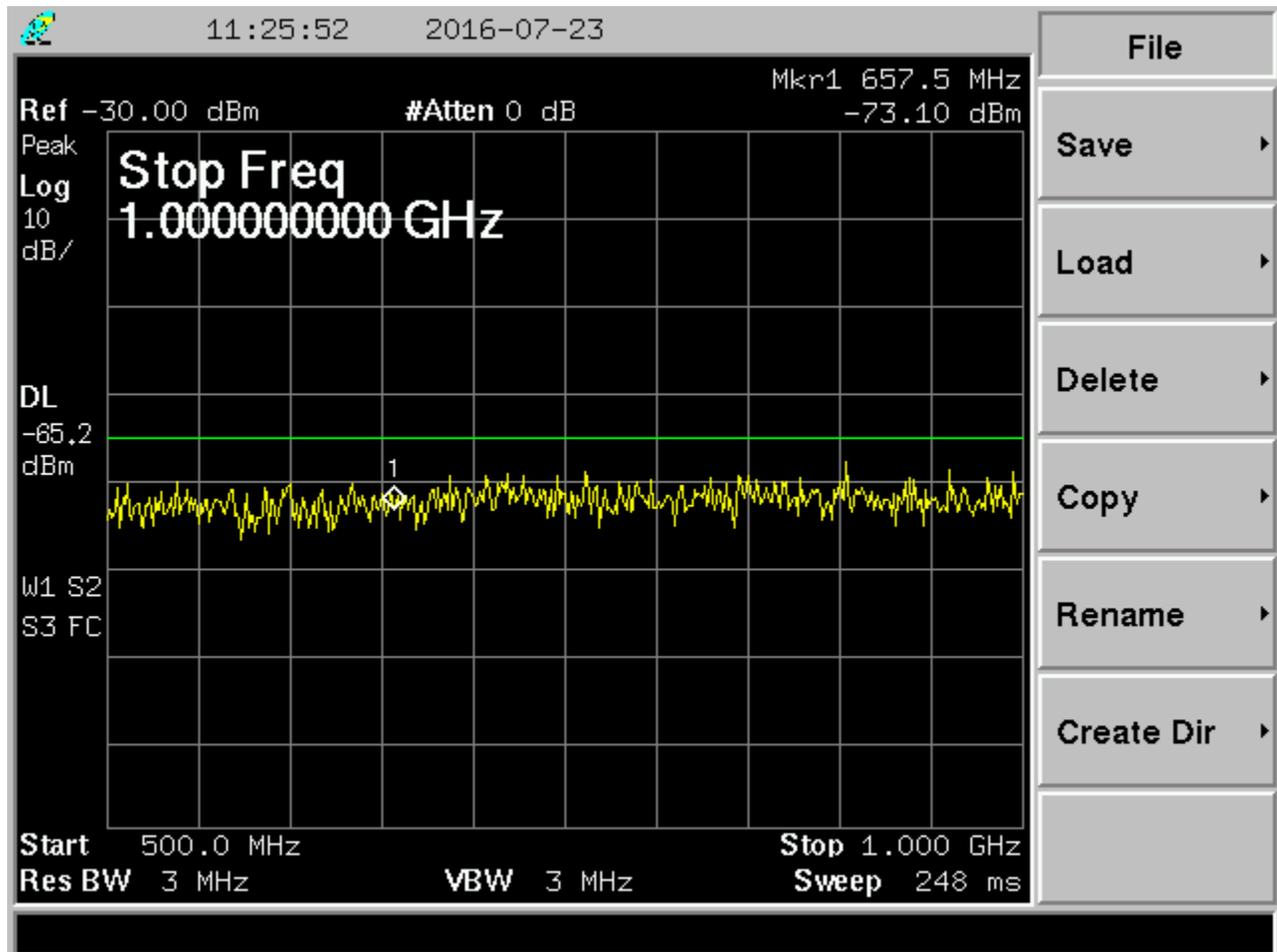
Start 175.0 MHz

Stop 500.0 MHz

Res BW 3 MHz

VBW 3 MHz

Sweep 72 ms



The stations were found to be in compliance with 73.317 transmission system requirements as required by the construction permit and ensuring that the combiner is operating correctly.

Rob Stilson
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