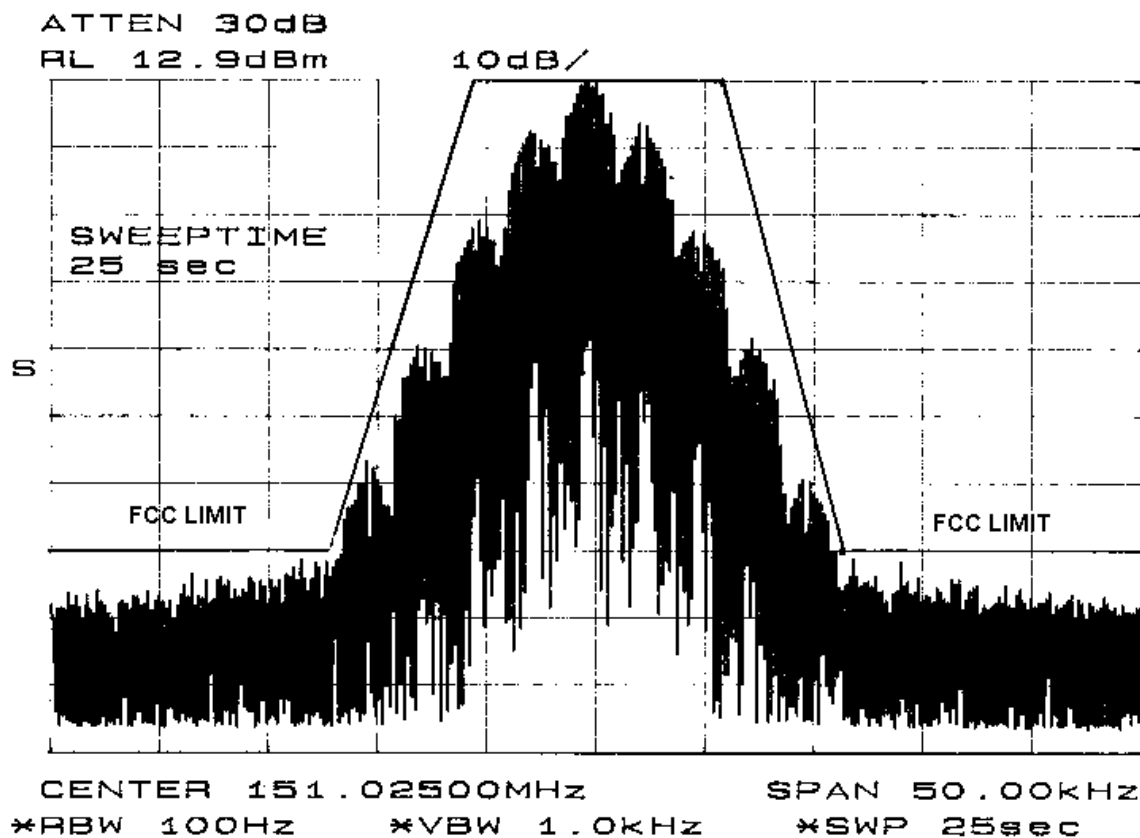


Subject FCCID: ARUSRV50B (Correspondence ID: 3991, Form 731 ID EA91175)

In response to your request for additional data via email on Friday, September 25, 1998, answers are provided below using the same item numbers and order.

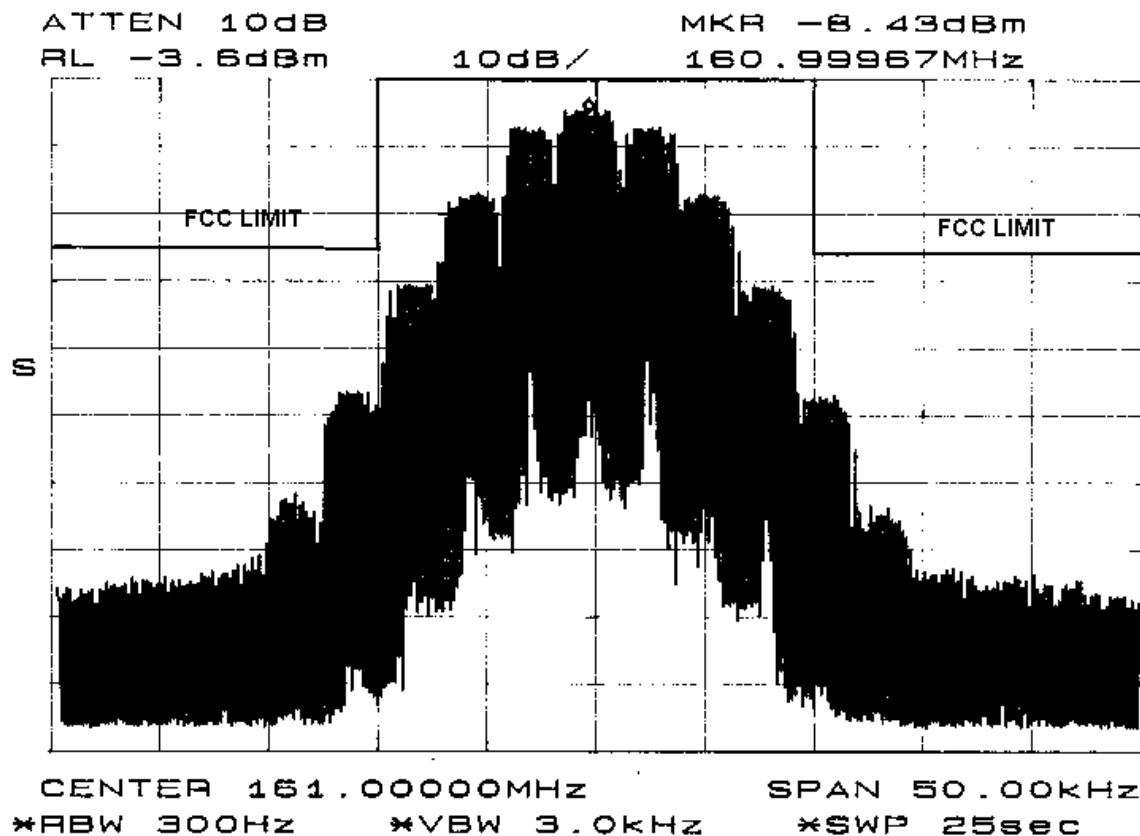
1. The 16K0F9W and 11K0F9W were added in an attempt to be more exact in the emission area. These signals are a summation of an NRZ filtered low frequency data signal directly modulating the frequency of the transmitter reference and VCO signals to produce a deviation of about 750 Hz and a limited/filtered voice signal. The voice portion is set to provide a maximum deviation of 4.25 kHz to guarantee that the overall deviation does not exceed five kilohertz in a 16K0 channel or 2.5 kHz for the 11K0 channel. The bandwidth plots are shown below.



Occupied Bandwidth Test Graph

Tested by: Kenneth Klyberg-Engineering Tech
12.5KHz Input 2500Hz Tone w/ DCS modulation

11K0F9W



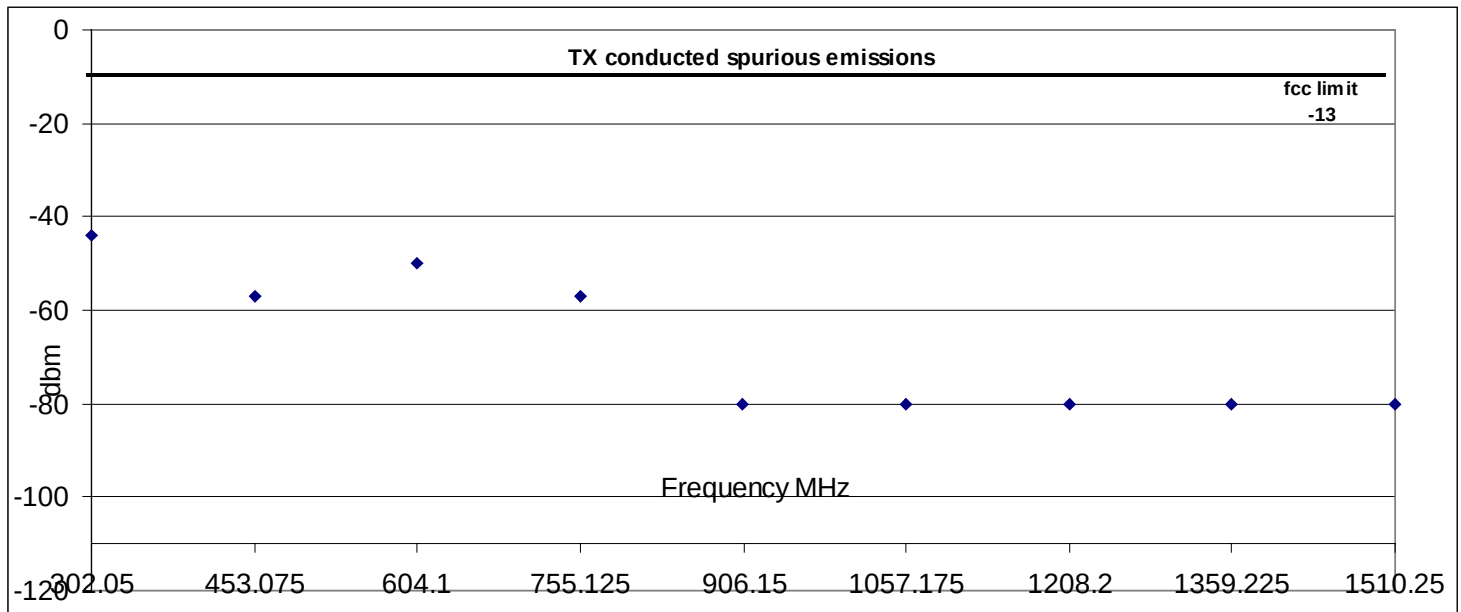
Tested by: Kenneth Klyberg-Engineering Tech
Occupied Bandwidth Test Graph 25KHz Input 2500Hz Tone w/ DCS modulation 16K0F9W

2. Yes, the power is indeed variable from 10 to 50 watts. The conducted spurious were measured at the reduced power level of 10 watts. The results of these measurements are shown below. The data was measured at the low end, middle, and high end of the band.

FCC Type Acceptance			
ARUSRV50B	Correspondence ID : 3991		
TX conducted Spurious Emmissions			
	Freq(MHz)	Level(dbm)	RF Power (Watts)
Fundamental	151.025		10
	302.05	-44	
	453.075	-57	
	604.1	-50	
	755.125	-57	
	906.15	-80	
	1057.175	-80	
	1208.2	-80	
	1359.225	-80	
	1510.25	-80	

Tested By
Technician

Tested By: Kenneth Klyberg-Engineering Technician



FCC Type Acceptance

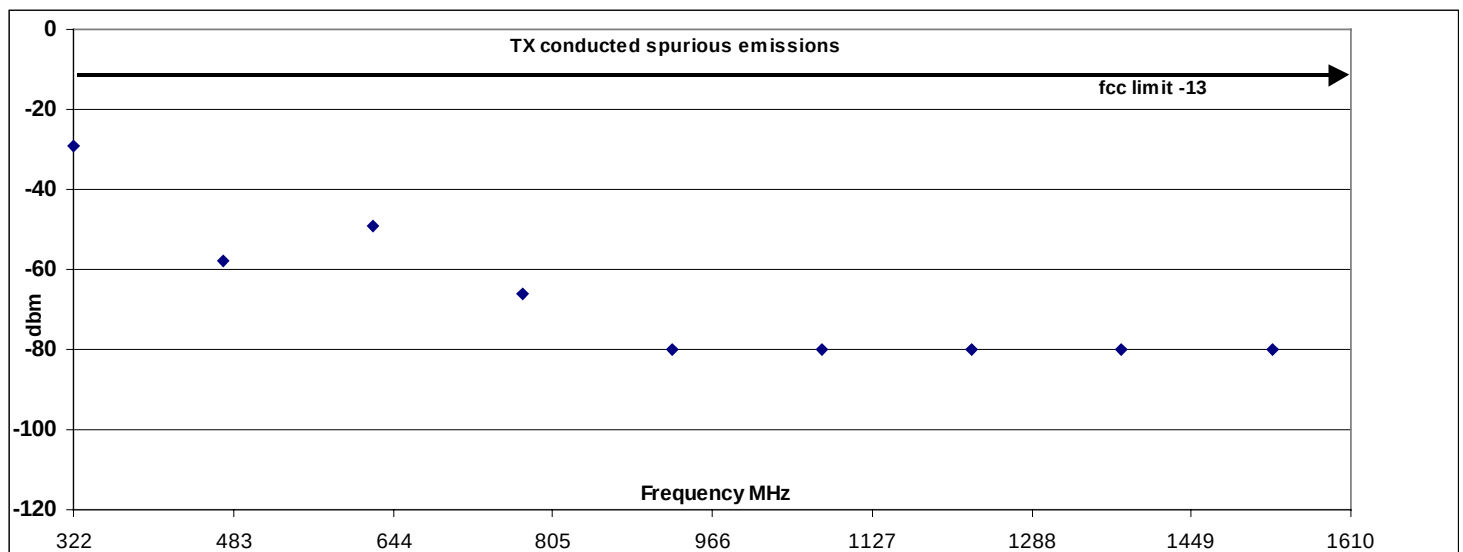
ARUSRV50B

Correspondence ID : 3991

TX conducted Spurious Emissions

	Freq(MHz)	Level(dbm)	RF Power (Watts)
center	161		10
	322	-29	
	473.025	-58	
	624.05	-49	
	775.075	-66	
	926.1	-80	
	1077.125	-80	
	1228.15	-80	
	1379.175	-80	
	1530.2	-80	

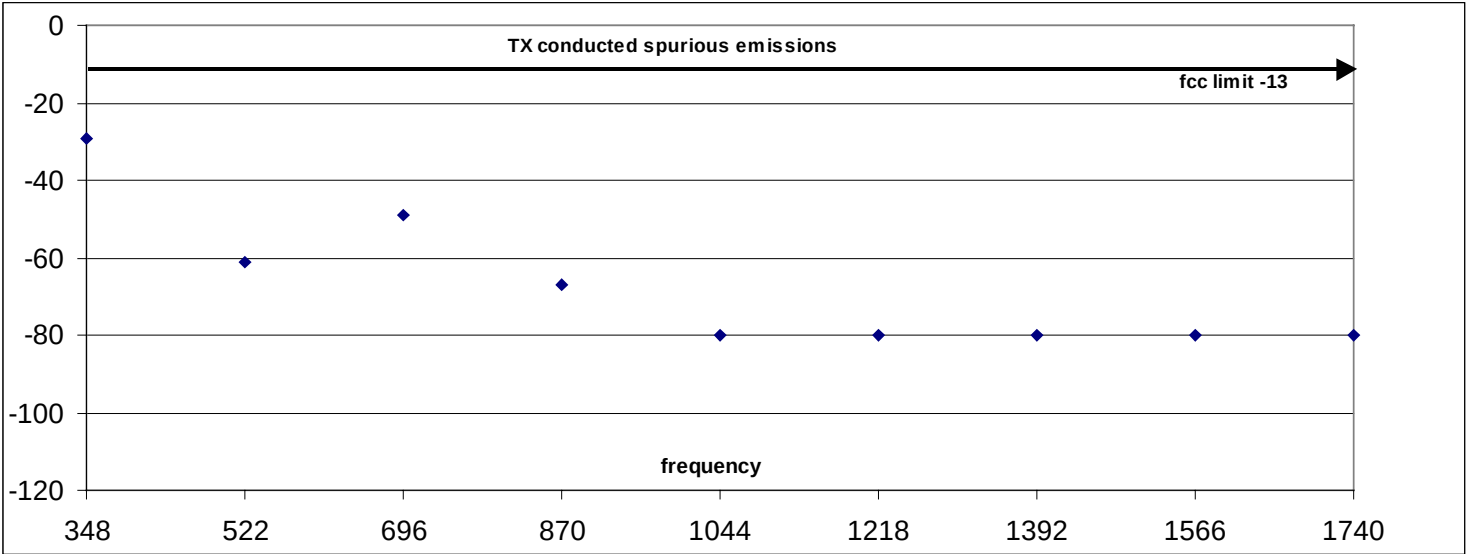
Tested By: Kenneth Klyberg-Engineering Technician



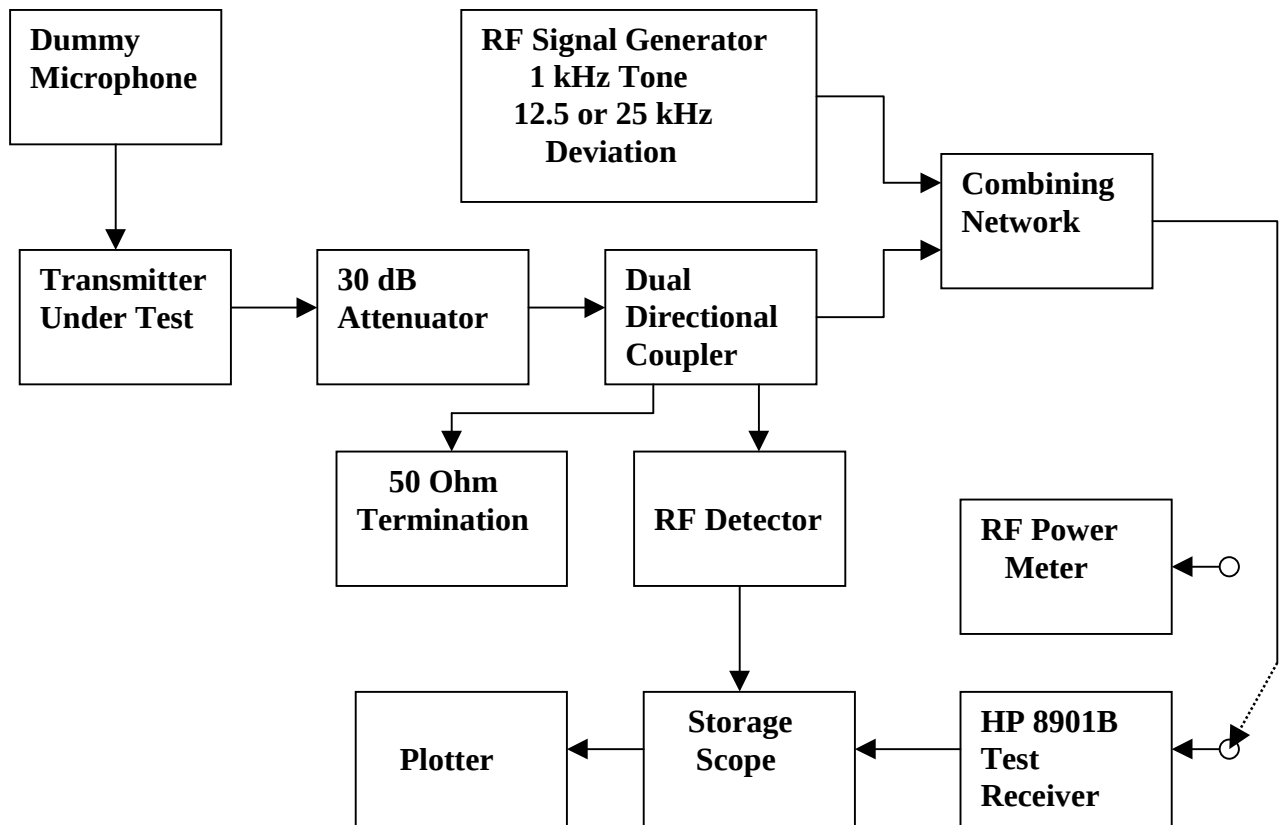
FCC Type Acceptance	
ARUSRV50B	Correspondence ID : 3991
TX conducted Spurious Emissions	

	Freq(MHz)	Level(dbm)	RF Power (Watts)
center	174		10
	348	-29	
	522	-61	
	696	-49	
	870	-67	
	1044	-80	
	1218	-80	
	1392	-80	
	1566	-80	
	1740	-80	

Tested By: Kenneth Klyberg-Engineering Technician



3. The transient frequency behavior test was performed according to TIA/EIA-603. The block diagram is shown below.



The level at the combining network input from the transmitter under test at the 50 watt level is about – 10 dBm. Additional attenuation was used in the 30 dB block that was not show. The RF signal generator was set at -30 dBm for the pictures sent which is per TIA/EIA-603 procedure. There is a degree of co-channel interference between the signal generator and the transmitter under test which accounts for the noise on the center line. We repeated the test with the signal generator set at –40 dBm. The characteristics are identical but the center line is now slightly less noisy.

4. The lower part of the original request contained a statement NOT to reply back but to just upload the data. We will send an email immediately after an upload from now on. Sorry for our confusion.

Thank you.

Walter Simcock

Engineering Manager