

Site 07 – Single Residence 1313 35th St, San Pedro, CA

(N338 42.973' / W 1188 18.351') – 53.50 km. to Tx

Predicted FI (LR9090): 34 dBu Actual FI Outside: 44.37 dBu Actual FI Inside: 41.56 dBu Atten: 2.81 dB



This is the most distant site from the KROQ main transmitter site. It is a single-family/single story residence of wood and stucco construction. It is located in a very hilly neighborhood overlooking the Pacific Ocean, and due to the over-water propagation path many San Diego FM and TV stations are routinely received here. The 106.3 MHz signal from Santa Ana was again very noticeable, and at none of various locations checked throughout the house was clean analog reception of KROQ possible; nor was digital reception possible anywhere in the house, with the digital carrier ratio at -20 dBc. Even when the carrier ratio was changed to -10 dBc, digital reception was marginal; we did locate one area in the living room where we did achieve good digital reception and that is the location where our measurements were made. It is interesting to note that because of the construction of the house the signal levels were mostly uniform throughout the structure.

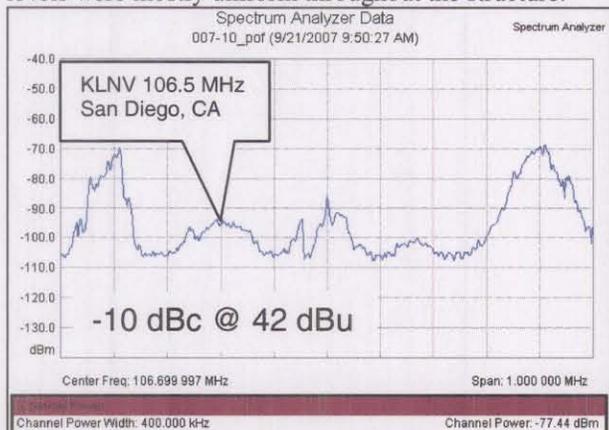


Figure 1 - #7 1313 (Inside POF @ -10 dBc)

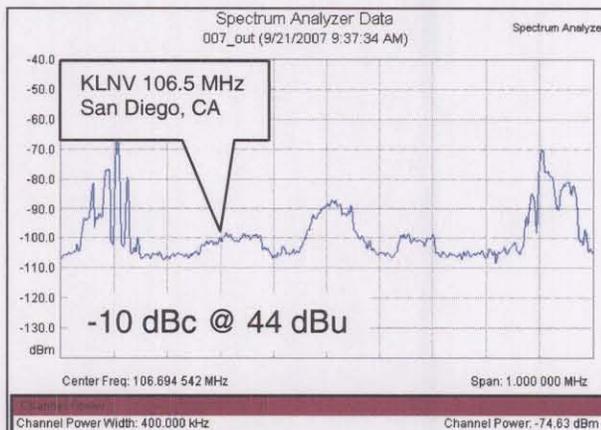


Figure 2 - #7 1313 (Outside @ -10 dBc)

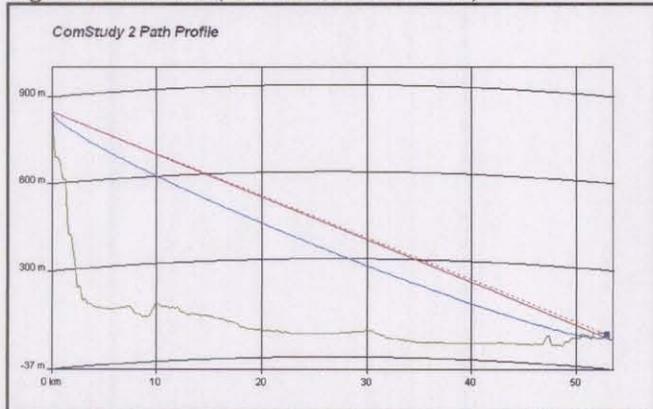


Figure 3 - #7 1313 (Terrain to Tx)

Site 08 – 36 Unit Apt. Complex 4646 Cahuenga Blvd, Toluca Lake, CA

(N348 09.274' / W1188 21.667') - 10.59 km. to Tx

Predicted FI (LR9090): 69 dBμ Actual FI Outside: 68.1 dBμ Actual FI Inside: 73.6 dBu Atten: N/A

This is an apartment on the top (2nd) floor of a two-story apartment building in the San Fernando Valley, where KROQ enjoys excellent coverage. There was no loss of digital signal at either -10 or -20 dBc, anywhere in the apartment. As with Site 07 the construction of the building yielded nearly uniform attenuation throughout the structure.

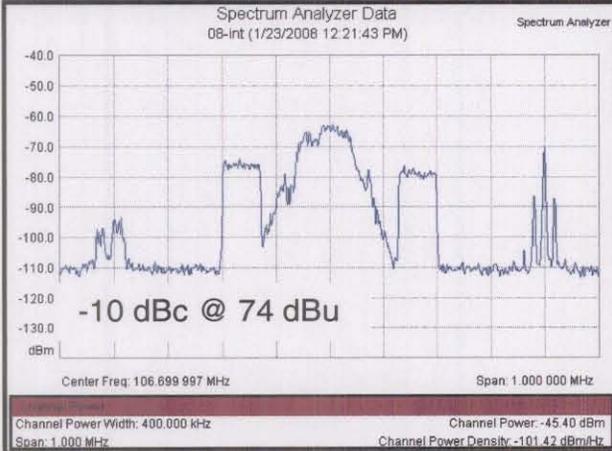
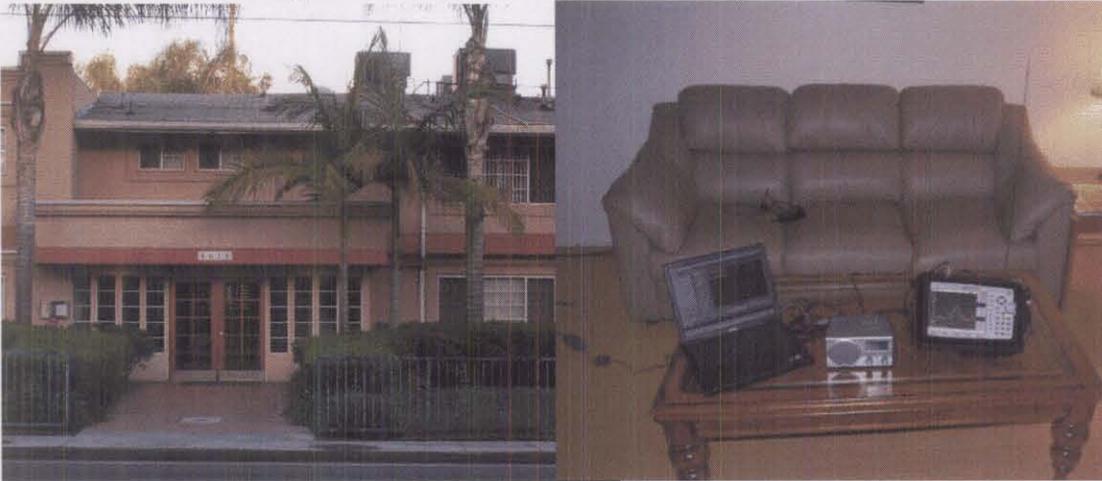


Figure 1 - #8 4646 (Window @ -10 dBc)

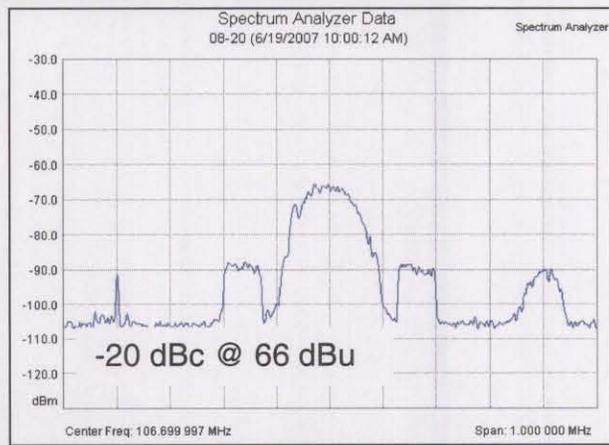


Figure 2 - #8 4646 (Inside @ -20 dBc)

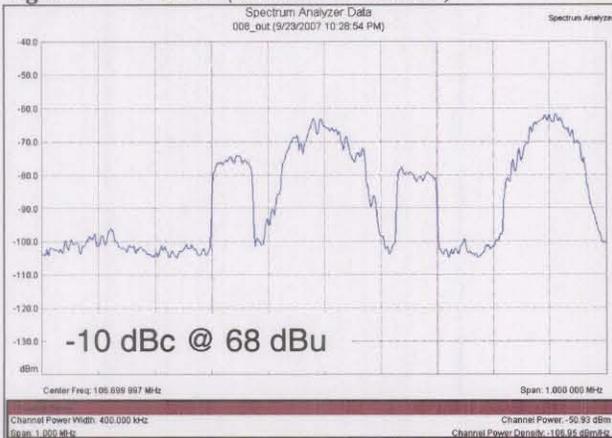


Figure 3 - #8 4646 (Outside @ -10 dBc)

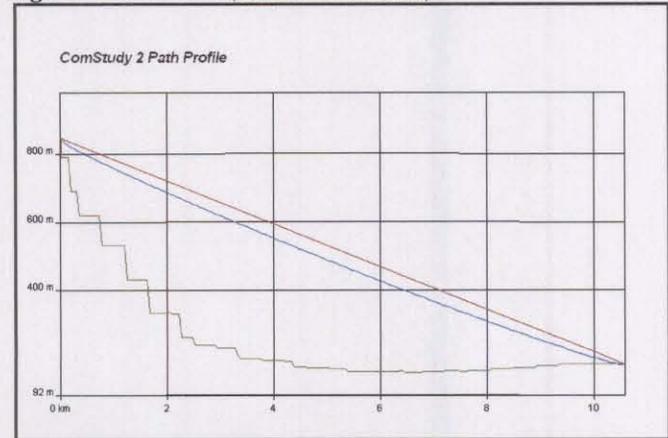


Figure 4 - #8 4646 (Terrain to Tx)

Site 09 – Parking Garage 11239 Ventura Blvd., Studio City, CA

(N348 08.507' / W1188 22.493') - 12.37 km. to Tx

Predicted FI (LR9090): 68 dBμ Actual FI Outside: 82.61 dBμ u Actual FI Inside: 55.74 dBμ Atten: 26.87 dB



This is an underground parking structure, also in the San Fernando Valley in an area at the base of the Santa Monica Mountains known locally as Studio City. We found parking structures to be well suited to the measurement program due to ease of access, ability to keep our measuring equipment inside a vehicle, and ability to power the equipment from the vehicular electrical system using an inverter. The vehicle can be slowly driven in the direction away from the transmitter site, and a continuous decrease in received signal level is observed as the vehicle moves further into the structure. At the specified point of failure, the vehicle is stopped while spectrum analyzer traces are captured and photographs taken.

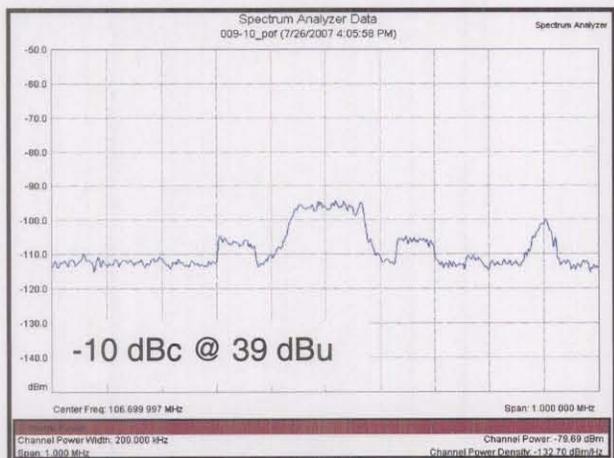


Figure 1 - #9 Parking Garage POF @ -10 dBc

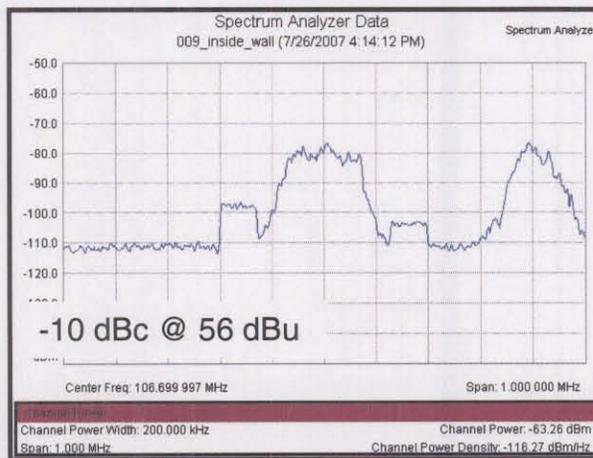


Figure 2 - #9 Parking Garage (Inside @ -10 dBc)

Site 09 – Continued.....

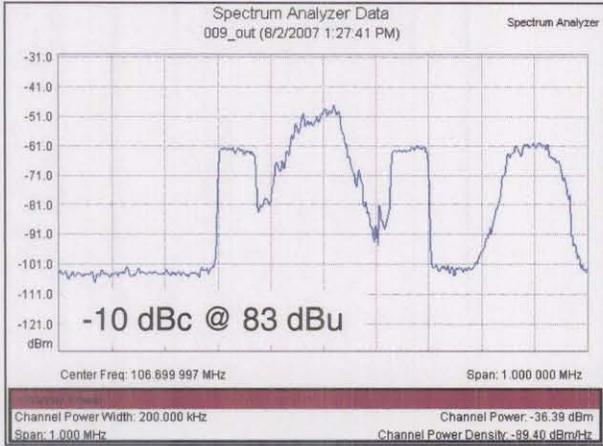


Figure 3 - #9 Parking Garage (Outside @ -10 dBc)

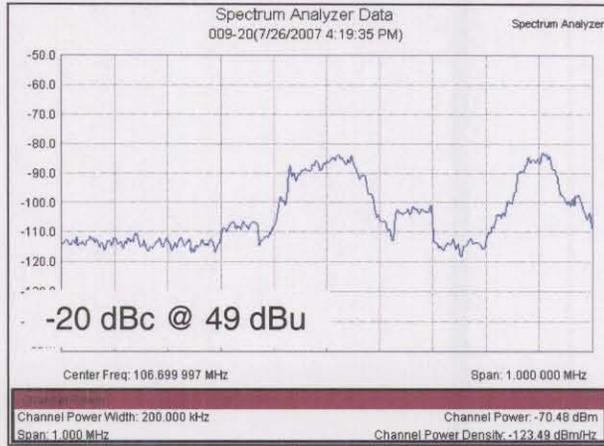


Figure 4 - #9 Parking Garage (Outside @ -20 dBc)



Figure 5 - #9 Parking Garage (Terrain to Tx)

Site 10 – Parking Garage 211 N. Glendale Ave., Glendale, CA

(N348 08.897' / W1188 14.769') - 5.55 km. to Tx

Predicted FI (LR9090): 75 dBμ Actual FI Outside: 68.23 dBμ Actual FI Inside: 49.35 dBμ Atten: 18.88 dB

This site is similar to site 09; a concrete and steel commercial building with an underground parking lot within the commercial district of Glendale. This site is 5.5 km from the KROQ transmitter site. Outdoor reception of KROQ's analog and -20 dBc digital signal is good, however, when the test vehicle was driven more than 25 – 30 feet into the garage, the -20 dBc digital signal became unusable. With the digital subcarrier power increased to -10 dBc, the digital reception was solid up to 165 feet inside the facility. At that point, the analog reception had deteriorated to a degree that most listeners would not tolerate. The analog and digital signals both became unusable at distances greater than 165 feet.

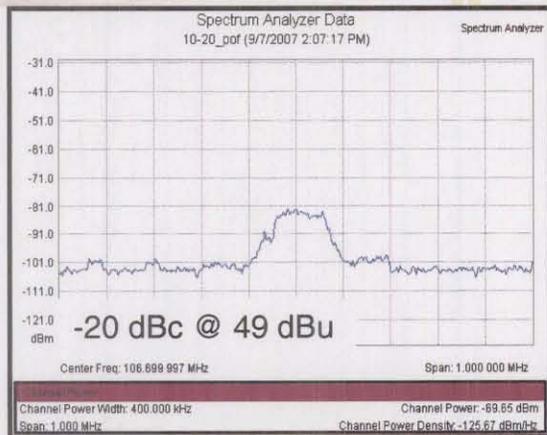


Figure 1- #10 Parking Garage (-20 dBc POF)

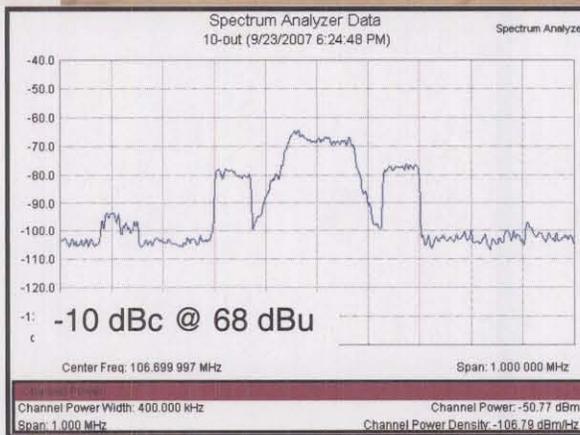


Figure 2- #10 Parking Garage (-10 dBc Outside)

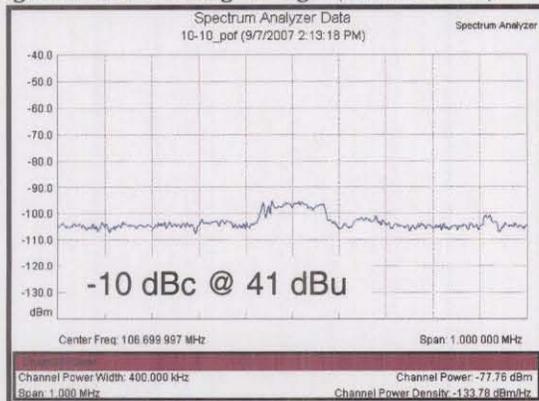


Figure 2- #10 Parking Garage (-10 dBc POF)

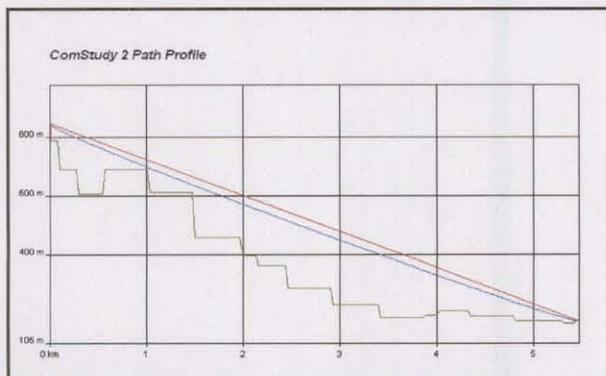


Figure 4 - #10 Parking Garage (Terrain to Tx)

Appendix 11

Table of Audio Cuts

Follows a table of the analog recordings made in conjunction with the test program. The cuts document the quality of the analog reception at or near digital failure in each of the test locations.

Table of Audio Cuts		
Site	Analog Cuts	Cut Label
00	DNA	[no audio recorded at transmitter site]
01	-20 POF	01-20-dBc_POF_Analog
02	-20 POF	02-20-dBc_POF_Analog
03	-10 POF	03-10-dBc_POF_Analog
04	-20 POF	04-20-dBc_POF_Analog
05	-20 POF	05-20-dBc_POF_Analog
06	-20 POF	06-20-dBc_POF_Analog
07	-10 outside	07-10-dBc_Analog
08	-10 POF	08-10-dBc_POF-Analog
09	-10 POF	09-10-dBc_POF_Analog
10	-10 POF	10-10-dBc_POF_Analog