

Transmit Composite Noise Radio Comparisons

By Rob Sherwood, NC0B*
and Robi Vilhar, S53WW

*Some of the TX Noise measured
by Ken Long, N0QO

	Radio	Offset Frequency		
		10 kHz	20 kHz	100 kHz
^	Apache 7000DLE	-145	-147	-151
^^	Flex 6700	-143	n/a	-148
^^^	K3S	-141	n/a	-143
^^^	K4D	-137	-141	-151
^^^	FTdx-101D	-137	-138	-141
^^^	@FTdx-101D	-134	-137	-140
^^^	FTdx-101MP	-134	-136	-139
^^^	@K3	-133	-140	-149
^^^	FTdx10	-130	-131	-135
^^^	IC-7851	-129	n/a	-138
^^^	@IC-7610	-129	-133	-141
^^^	FT-710	-129	-131	-134
^^^	IC-7610	-128	-130	-142
^^^	@FT-1000 MP	-123	-129	-133
^^^	@IC-7600	-122	-130	-142
^^^	Flex 6400	-122	-127	-139
^^^	IC-705 ^	-121	-122	-128
^^^	IC-7300	-121	-121	-124
^^^	FTdx-3000	-120	n/a	-121
^^^	TS-890S	-119	-127	-139
^^^	@TS-590SG	-119	-133	-139
^^^	@Flex 6600	-118	-123	-141
^^^	@TS-890S	-117	-127	-138
^^^	@FT-2000	-117	-127	-130
^^^	@Flex 1500 #	-116	-119	-120
^^^	@IC-7300 *	-112	-112	-118
^^^	IC-7300 +	-110	-109	-116

NOTES

Data sorted by 10 kHz composite noise column

Results shown in dBc/Hz using

Measurements made on 20 meters

TX power: 100 Watts, (unless indicated)

Robi Vilhar's (S53WW) data was measured using a QS1R SDR Receiver; (data preceded by @)

Rob Sherwood's (NC0B) data was measured using a Perseus SDR Receiver

LEGEND

n/a = data not available

^ Power at 10 watts IC-705

Power at 5 watts Flex 1500

* Measured at 50 watts for IC-7300

+ Measured at 30 watts for IC-7300

@ [Model] = data from Robi Vilhar, S53WW

Note: although we used two different types of receivers, where we measured the same model of transceiver, the data correlation was reasonably good. We are comfortable publishing this combined chart.