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RECEIVER TEST DATA

Device Under Test	Noise Floor	AGC Thrshld	dB	100kHz Blocking	Sensitivity	LO Noise Spacing	kHz	Front End Selectivity	Filter Ultimate	Dynamic Range Wide Spaced	kHz	Dynamic Range Narrow Spaced	kHz
Drake R-4C/CF-600/6	-138 dBm	0.7 uV	3	130dB	0.15 uV	135 dBc	10	A- Preselector	130dB	85dB	20	85dB	2
AOR AR-7030	-122/-128*	2.2	3	130	0.5/0.22	130	10	D Hi /Lo Pass	90	100	20	82	2
Atlas 350-XL	-131	1.0	11	117	0.2	125	4	C Band Pass	95	81	20	81	2
Knwd TS-830/YK88	-129	1.5	3	122	0.1	114	2	C Preselector	85^	84	20	81	2
Yaesu 901-DM	-135	1.6	3	124	0.15	109	2	C Preselector	85	87	20	80^	3
Collins R-390A	-137	N.A.		130	0.2	130	2	A+ Trk Presel	85	81	20	79	2
Ten-Tec Corsair	-131#	0.1	14	130	0.2	132	5	C Band Pass	90	93	20	79	3
Icom IC-720A	-137	1.6	3	138	0.15	117	10	C 0.5 Octave	80	93	50	78	3

Kenwood TS-820S	-137	0.4	3	115	0.2	125	10	C Preselector	80	79	20	78	3
JRC NRD-515	-138	3.5	4	103	0.1	118	10	C 0.8 Octave	80	95	20	77^	2
Ten-Tec Omni V	-134	1.2	6	135	0.18	134	10	C Band Pass	100	89	20	76	2
Atlas 210/215X	-120#	N.A.		123	0.5	N.A.		C Band Pass	95	76	20	76	2
Drake R-7	-135/140*	1.0/0.4*	3	145	0.28/0.15*	114	10	B 0.5 Octave	85	97	100	75	2
Drake TR-7	-134	1.3	3	146	0.5	116	10	B 0.5 Octave	90	99	100	75	2
Heath SB-104	-123	N.A.		92	0.5	N.A.		C Band Pass	75	79	20	75	4
WJ HF-1000	-129/136#*	0.11	3	123	0.23/0.13*	115	10	D Wideband	80	99	20	75	5
Ten-Tec Omni-B	-136	0.2	25	129	0.15	130	10	C Preselector	80	87	20	74	2
Icom IC-730	-140	1.5	3	135	0.1	118	10	C 0.5 Octave	80	92	50	74	3
Kenwood R-820S	-125	4.0	3	125	0.35	123	10	C Preselector	75	74	20	74	4
Collins 75-S3B	-146	1.1	15	122	0.1	120	4	B+ Preselector	85	88	20	74	2
Icom IC-781	-127/138*	2.0/0.5*	3	141	0.5/0.18*	129	10	B 0.5 Octave	90^	94	20	73	2
Kenwood TS-930S	-135	2.0	3	143	0.15	115	10	B- 0.5 Octave	80^	86	20	73	3
Icom IC-701	-129	5.5	6	130	0.3	125	10	C Band Pass	75	81	50	73	4
JRC NRD-525	-132#	0.9	3	123	0.2	120	10	B Trk Presel	65	95	50	72	5
Drake R-8	-128/131#*	0.6/0.3	3	130	0.25/0.18*	115	10	C 0.5 Octave	75^	90/85*	20	71	5
Icom IC-R72	-127/135#	3.1/1.2*	3	129	0.28/0.11*	122	10	C 0.5 Octave	75	87*	20	71	5
JRC NRD-535	-135#	0.9	3	114	0.1	117	10	B Trk Presel	70	92	50	70	5
Kenwood TS-830S	-136#	0.9	3	122	0.1	113	2	C Preselector	80	84	20	70	3

Icom IC-761	-131/-139*	2.0/0.7*	3	145	0.4/0.17*	129	10	B- 0.5 Octave	90^	87	20	70	2
Lowe HF-150	-126#	0.7	3	126	0.3	113	10	F No Bandpass	75	84	20	69	5
Kenwood TS-430S	-136#	0.6	3	134	0.1	102	10	C 0.5 Octave	70	78	20	69	5
Signal/One CX-11A	-122#	0.6	17	109	0.6	119	50	C 0.5 Octave	105	90	50	68	5^
Kenwood TS-180S	-139	0.9	3	115	0.15	120	10	C Preselector	80	70	20	68	3
Drake TR-4C	-124#	1.2	3	105	0.4	130	10	C Preselector	80	74	20	68	2
Icom IC-735	-126/133*	1.5	12	135	0.35/0.18*	123	10	C 0.5 Octave	90^	83	20	68	2
Drake SW8	-127#	0.9	3	125	0.32	113	10	N.A.	70	92	20	67	5
Racal 6790 GM	-128	0.3	1	145	0.7	130	10	D Broadband	85	95	20	66	2
Lowe HF-235	-126#	0.8	3	129	0.35	117	10	D Octave	80	71	20	66	5
AOR AR3030	-131#	2.0	10	130	0.16	117	10	C 0.5 Octave	85	90	20	66	5
Yaesu FRG-100	-133#	0.9	3	127	0.13	112	10	C 0.5 Octave	70	99	50	65	5
Kenwood R-5000	-131#	0.4	3	134	0.2	120	10	C 0.5 Octave	80^	86	20	65	5
Yaesu FRG-7700	-130#	1.3	3	123	0.2	100	10	D Octave	65	83	50	64^	5 t
Kenwood R-1000	-130#	0.9	3	119	0.2	107	10	D Octave	70	76	20	64^	3 t
Heath SB-303	-134	N.A.		104	0.5	N.A.		C Preselector	70	66	20	64	4
Collins KWM-380	-127#	1.1	5	123	0.3	99	10	B 0.5 Octave	70^	94	50	64^	2
Icom IC-751	-127/133*	6.3	3	138	0.4/0.2*	127	10	B- 0.5 Octave	90^	84	20	64	2
Kenwood TS-520	-139	N.A.		116	0.15	N.A.		C Preselector	70	63	20	63	3
Yaesu FT-One	-135	1.0	3	130	0.2	99	10	C 0.5 Octave	80^	91	50	63^	2

Collins 75-S3 Wing	-145	1.0	14	105	0.1	N.A.		B Preselector	75	75	20	63	3
JRC NRD-93	-141	1.6	3	128	0.15	133	10	A+ Trk Presel	80	94	20	63	2
Yaesu FT-980	-136	1.8	3	140	0.12	106	10	C 0.5 Octave	62^	96	50	63	2
Icom IC-R70/R-71A	-129/135*	3.1/1.4*	3	132	0.4/0.2*	128	10	B- 0.5 Octave	90^	86	20	62	3
Grundig Satellite 700	-127#	1.6	3	106	0.3	118	10	N.A.	85	76	20	62	5
Yaesu FT-101E	-141	N.A.		102	0.15	N.A.		C Preselector	70	60	20	59	3
Drake R-4C Stock	-139	0.7	3	133	0.15	130	10	A- Preselector	70	85	20	58	2
Yaesu FT-757	-120/134*	1.6	3	130	0.7/0.15*	109	10	C 0.5 Octave	70^	86	20	56	3
Kenwood R-2000	-130#	1.4	3	115	0.15	105	10	D Octave	70	71	20	45	5
Kenwood R-600	-130#	0.8	3	109	0.2	99	10	D Octave	65	68	20	F.L.	5
Yaesu FRG-8800	-132#	0.6	3	122	0.18	N.A.		D Octave	70	87	20	F.L.	5

Notes on Receiver Table Legend

One (1) dB blocking (gain compression) test done at 100 kHz to eliminate phase noise interaction.

N.A. = Data not available.

= Measured with SSB filter.

* = Built-in preamp actuated.

F.L. = Filter limited, no measurement was possible due to signal leakage around filter.

t = Readings would have been lower if 2-kHz spacing had been possible.

^ = Measurement was phase-noise limited rather than intermodulation limited.

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