

GENERAL INFORMATION REQUIRED
FOR TYPE ACCEPTANCE

2.1033 (C)(1)(2) RADIOSHACK CORPORATION will sell the FCCID:
AA01901208 UHF BUSINESS BAND transceiver
in quantity, for use under FCC
RULES PART 22, 90

RADIOSHACK CORPORATION
100 THROCKMORTON STREET SUITE 1300
FT. WORTH, TX 76102-2802 U.S.A.

2.1033(C)(3) A copy of the instruction manual is included as
Exhibit 6.

(4) ALLOWED AUTHORIZED BANDWIDTH = 11.25kHz.
90.209(b)(5)

$$B_n = 2M + 2DK$$

$$M = 3000$$

$$D = 2625 \text{ (Peak Deviation)}$$

$$K = 1$$

$$B_n = 2(3.0K) + 2(2625)(1) = 6.0K + 5250 = 11.25 K$$

Type of Emission: 11K25F3E

2.1033(C)(5) Frequency Range: 464.5000-467.9250 MHz

(6) Power Range and Controls: This UUT has two (2) power
ranges, 1.0 and 5.0 watts

(7) Maximum Power Rating: 5.0 Watts
into a 50 ohm resistive load.

(8) DC Voltages and Current Final Amplifier:
FINAL AMPLIFIER ONLY
Vce = 8.4 Volts DC Ice = 0.92A
Pin = 7.70 Watts

(9) The tuning procedure is included as
Exhibit 8A-8C.

(10) A schematic is included in Exhibit 5.

(11) Photograph or drawing of the label showing the FCC
ID and the location of the label is shown in
Exhibits 1 and 2.

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FCC ID: AA01901208

DATE: MAY 3, 2001

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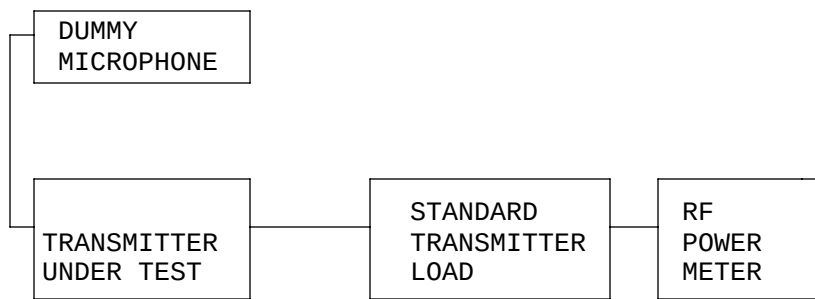
- 2.1033(c)(12) Photographs completely documenting the radio are shown in Exhibits 3A-3D.
- 2.1033(c)(13) N/A This is for devices that use digital modulation.
- 2.1033(c)(14) The data required by 2.1046 through 2.1057 follows;

- 2.1046(a) RF power output. The test procedure used was TIA/EIA-603 S2.2.1. RF power is measured by connecting a 50 ohm, resistive wattmeter to the RF output connector. With a nominal battery voltage of 8.4V, and the transmitter properly adjusted the RF output measures:

INPUT POWER: $(8.4V)(0.9A) = 7.7\text{Watts}$
OUTPUT POWER: 5.0 Watts Efficiency: 59%

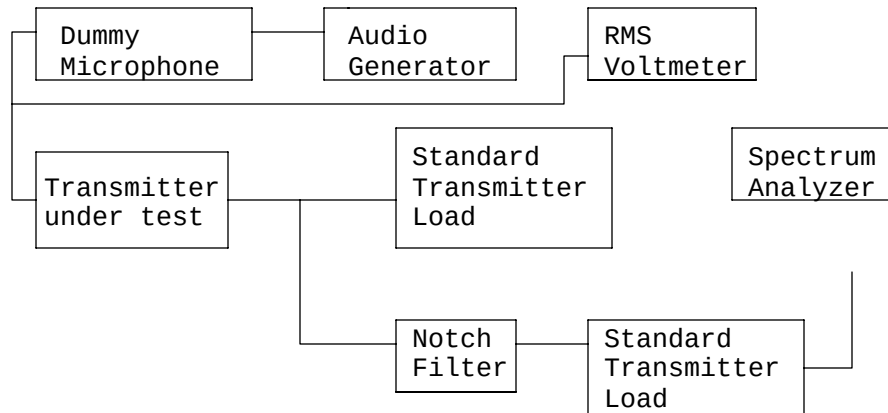
INPUT POWER(MED): $(8.4V)(0.4) = 3.36\text{ Watts}$
OUTPUT POWER(L0): 1.0 Watts Efficiency: 29%

- 2.1046(a) RF power output. The test procedure used was TIA/EIA-603 S2.2.1.



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2.1051 Spurious emissions at antenna terminals(conducted):
The following data shows the level of conducted spurious responses at the antenna terminal. The test procedure used was TIA/EIA 603 S2.2.13 with the exception that the emissions were recorded in dBc. The spectrum was scanned from 0.4 to at least the 10th harmonic of the fundamental.



Method of Measuring Conducted Spurious Emissions

NAME OF TEST: SPURIOUS EMISSIONS AT ANTENNA TERMINALS

REQUIREMENTS: Emissions must be $50 + 10\log(P_o)$ dB below the mean power output of the transmitter.

HIGH POWER $50 + 10\log(5.0) = 56.99\text{dB}$ OR 70dB Whichever is the lessor
LOW POWER $50 + 10\log(1.0) = 50.00\text{dB}$ OR 70dB Whichever is the lessor

EMISSION FREQUENCY MHZ	dB BELOW CARRIER	EMISSION FREQUENCY MHZ	dB BELOW CARRIER
HIGH POWER		LOW POWER	
464.50	00.0	467.80	0.0
929.00	75.2	935.60	58.8
1393.50	63.6	1403.40	55.7
1858.00	79.7	1817.20	65.7
2322.50	66.9	2339.00	64.0
2787.00	81.9	2806.80	81.4
3251.50	65.7	3274.60	82.7
3716.00	70.4	3742.20	80.0
4180.50	72.2	4210.20	87.7
4645.00	96.3	4678.00	85.3

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2.1053 (b) Field strength of spurious emissions:

The tabulated Data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 to 4.7 GHz. This test was conducted per ANSI C63.4-1992 with the exception of briefly connecting the transmitter to a half wave dipole for the purpose of establishing a reference.

NAME OF TEST: RADIATED SPURIOUS EMISSIONS

REQUIREMENTS:

HIGH POWER $50 + 10\log(5.0) = 56.99\text{dB}$ OR 70dB Whichever is the lessor

LOW POWER $50 + 10\log(1.0) = 50.00\text{db}$ OR 70dB Whichever is the lessor

TEST DATA:

EMISSION FREQUENCY MHZ	MR @ 3m dB	COAX LOSS dB	ACF dB	FIELD STRENGTH DbuV/m	FCC. LIMIT dB	ATTN dB	MARGIN dB	ANT. POL
HIGH POWER								
464.50	112.40	1.60	18.48	132.48	0.00	0.00	0.00	V
929.00	30.60	2.90	24.13	57.63	56.99	74.85	18.50	V
1393.60	24.00	1.00	25.57	50.57	56.99	81.91	24.92	V
1858.10	15.30	1.01	27.43	43.74	56.99	88.74	31.75	V
2322.70	29.70	1.08	28.81	59.59	56.99	72.90	15.90	V
2787.20	12.20	1.15	29.97	43.32	56.99	89.17	32.17	V
3251.70	24.30	1.22	31.13	56.65	56.99	75.84	18.84	H
3716.30	4.80	1.29	32.29	38.38	56.99	94.11	37.11	H
4180.80	1.00	1.36	33.20	35.56	56.99	96.92	39.93	V
4645.40	1.30	1.43	33.73	36.45	56.99	96.03	39.04	H
LOW								
464.50	105.20	1.60	18.48	125.28	0.00	0.00	0.00	V
929.00	30.00	2.90	24.13	57.03	50.00	68.25	18.25	V
1393.60	19.50	1.00	25.57	46.07	50.00	79.21	29.21	V
1858.10	14.50	1.01	27.43	42.94	50.00	82.34	32.34	V
2322.70	26.00	1.08	28.81	55.89	50.00	69.40	19.40	V
2787.20	5.60	1.15	29.97	36.72	50.00	88.57	38.57	V
3251.70	9.80	1.22	31.13	42.15	50.00	83.14	33.14	H
4645.40	1.50	1.43	33.73	36.65	50.00	88.63	38.63	V

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