2.1053(a) Field_strength_of_spurious_emissions:

NAME OF TEST: RADIATED SPURIOUS EMISSIONS

REQUIREMENTS: Emissions must be 43 +10log(Po) dB below the
mean power output of the transmitter.
HIGH POWER 43 + 10log(4.88) = 49.88 dB
LOW POWER 43 + 10log(1) = 43 dB

TEST DATA:

HIGH POWER:

Emission Frequency MHz	Ant. Polarity	Corrected EUT Signal Reading	Coax Loss (dB)	Substitution Antenna (dBd)	dB Below Carrier (dBc)
156.00	V	32.60	0	0	0
312.00	H	-45.30	0	-1.22	79.12
468.10	H	-43.10	0	-1.46	77.16
624.10	H	-64.50	0	-1.54	98.64
780.20	V	-59.00	0	-1.31	92.91
936.20	V	-51.10	0	-1.33	85.03
1092.20	V	-55.60	1	-3.54	90.74
1248.20	V	-50.50	1	-4.08	86.18
1404.30	H	-57.70	1	-4.63	93.93
1560.40	V	-56.30	1.1	-5.03	92.83

LOW POWER

Emission Frequency MHz	Ant. Polarity	Corrected EUT Signal Reading	Coax Loss (dB)	Substitution Antenna (dBd)	dB Below Carrier (dBc)
156.00	V	25.7	0	0	0.00
312.00	H	-52.6	0	-1.22	79.52
468.10	H	-45	0	-1.46	72.16
624.10	V	-57	0	-1.54	84.24
780.20	V	-56.2	0	-1.31	83.21
936.20	V	-53.5	0	-1.33	80.53
1092.20	V	-55.7	1	-3.54	83.94
1248.20	V	-52	1	-4.08	80.78
1404.30	H	-59.2	1	-4.63	88.53
1560.40	V	-58.1	1.1	-5.03	87.73

2.1053(a) Field_strength_of_spurious_emissions:

NAME OF TEST: RADIATED SPURIOUS EMISSIONS

REQUIREMENTS: Emissions must be 43 +10log(Po) dB below the mean power output of the transmitter.

HIGH POWER 43 + 10log(4.88) = 49.88 dB
LOW POWER 43 + 10log(1) = 43 dB

TEST DATA CONTINUED:

HIGH POWER:

Emission Frequency MHz	Ant. Polarity	Corrected EUT Signal Reading	Coax Loss (dB)	Substitution Antenna (dBd)	dB Below Carrier (dBc)
157.40	V	33.00	0	0	0
314.80	H	-43.70	0	-1.22	77.92
472.20	H	-47.70	0	-1.46	82.16
629.60	V	-52.50	0	-1.54	87.04
787.00	V	-53.20	0	-1.31	87.51
944.50	V	-54.40	0	-1.33	88.73
1101.80	V	-55.10	1	-3.54	90.64
1259.20	V	-50.70	1	-4.08	86.78
1416.60	H	-51.90	1	-4.63	88.53
1574.10	V	-51.80	1.1	-5.03	88.73

LOW POWER

Emission Frequency MHz	Ant. Polarity	Corrected EUT Signal Reading	Coax Loss (dB)	Substitution Antenna (dBd)	dB Below Carrier (dBc)
157.40	V	28.3	0	0	0.00
314.80	H	-64.6	0	-1.22	94.12
472.20	H	-44.9	0	-1.46	74.66
629.60	V	-59.8	0	-1.54	89.64
787.00	V	-57.1	0	-1.31	86.71
944.50	V	-54	0	-1.33	83.63
1101.80	V	-58	1	-3.54	88.84
1259.20	V	-48.6	1	-4.08	79.98
1416.60	H	-56.5	1	-4.63	88.43
1574.10	V	-60.4	1.1	-5.03	92.63

METHOD OF MEASUREMENT: The tabulated data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 to at least the tenth harmonic of the fundamental. This test was conducted per TIA/EIA STANDARD 603 using the substitution method. Measurements were made at the open field test site of TIMCO ENGINEERING, INC. located at 849 N.W. State Road 45, Newberry, FL 32669.

Method of Measuring Radiated Spurious Emissions