

Nemko Test Report:	4078RUS1
Applicant:	Stemco LP 300 Industrial Blvd. Longview, Tx 75062 USA
Equipment Under Test: (E.U.T.)	8200001
In Accordance With:	FCC Part 15, Subpart C, 15.247 Digital Transmission System Transmitter
Tested By:	Nemko USA, Inc. 802 N. Kealy Lewisville, Texas 75057-3136
TESTED BY: David Light, Senior V	Wireless Engineer DATE: 08 October 2007
	DATE: 10 October, 2007
Γ	Number of Pages: 25

Table of Contents

SECTION 1.	SUMMARY OF TEST RESULTS	3
SECTION 2.	EQUIPMENT UNDER TEST (E.U.T.)	5
SECTION 3.	OCCUPIED BANDWIDTH	6
SECTION 4.	MAXIMUM PEAK OUTPUT POWER	9
SECTION 5.	SPURIOUS EMISSIONS	10
SECTION 6.	PEAK POWER SPECTRAL DENSITY	14
SECTION 7.	TEST EQUIPMENT LIST	15
ANNEX A - TE	ST DETAILS	16
ANNEX B - TE	ST DIAGRAMS	23

EQUIPMENT: 8200001

FCC PART 15, SUBPART C
Digital Transmission Systems
Test Report No.: 4078RUS1

Section 1. Summary of Test Results

Manufacturer: Stemco LP

Model No.: 8200001

Serial No.: None

General: All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart C, Paragraph 15.247 for Digital Transmission Systems. Radiated tests were conducted is accordance with ANSI C63.4-2003. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.

\boxtimes	New Submission	\boxtimes	Production Unit
	Class II Permissive Change		Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See "Summary of Test Data".



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Summary Of Test Data

NAME OF TEST	PARA. NO.	RESULT
Powerline Conducted Emissions	15.207(a)	NA
Minimum 6 dB Bandwidth	15.247(a)(2)	Complies
Maximum Peak Power Output	15.247(b)(3)	Complies
Spurious Emissions (Antenna Conducted)	15.247(d)	Not tested
Spurious Emissions (Restricted Bands)	15.247(d)/15.209(a)	Complies
Peak Power Spectral Density	15.247(e)	Complies

Footnotes:

The device does not have an external antenna connector.

The device is powered via USB interface.

EQUIPMENT: 8200001

FCC PART 15, SUBPART C
Digital Transmission Systems
Test Report No.: 4078RUS1

Section 2.	Equipment Under Test (E.U.T.)

General Equipment Information

Frequency Band (MHz): 902-928 2400-2483.5 5725-5850

Operating Frequency of Test Sample: 2403 to 2479 MHz

User Frequency Adjustment: Software controlled

FCC PART 15, SUBPART C
Digital Transmission Systems
Test Report No.: 4078RUS1

EQUIPMENT: 8200001

Section 3. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth PARA. NO.: 15.247(a)(2)

TESTED BY: David Light DATE: 08 October

Test Results: Complies.

Measurement Data: See 6 dB BW plot

Measured 6 dB bandwidth:

880 KHZ

Measured 20 dB bandwidth:

1.47 MHZ

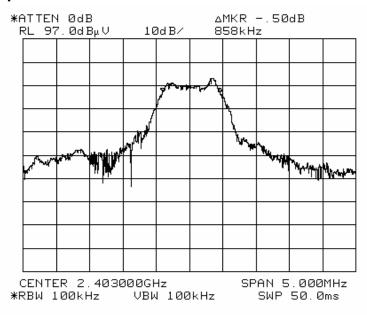
Test Conditions: 22 %RH

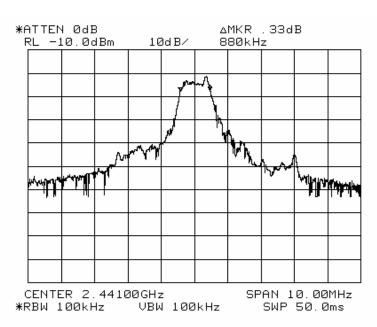
45 °C

Measurement Uncertainty: +/-1x10⁻⁷ ppm

Test Equipment Used: 993-1464-1484-1485

Test Data – Occupied Bandwidth

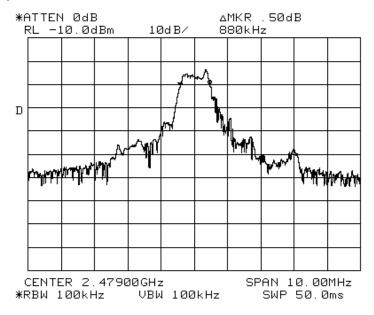




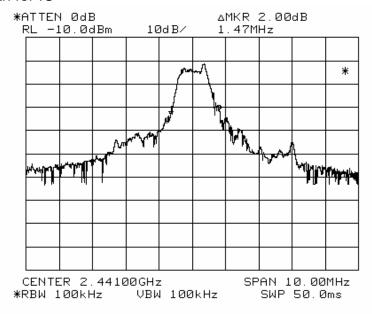
4078RUS1

EQUIPMENT: 8200001

Test Data - Occupied Bandwidth



20 dB Bandwidth for IC



FCC PART 15, SUBPART C Digital Transmission Systems

EQUIPMENT: 8200001 Test Report No.: 4078RUS1

Section 4. Maximum Peak Output Power

NAME OF TEST: Maximum Peak Output power PARA. NO.: 15.247(b)(3)

TESTED BY: David Light DATE: 08 October 2007

Test Results: Complies.

Measurement Data:

Frequency (MHz)	Measured Power (dBm)	Measured Power (mW)	Antenna Gain (dBi)	Calculated Conducted Power (mW)
2403	-8.6	0.138	3	0.069
2441	-7.0	0.200	3	0.100
2479	-5.4	0.288	3	0.144

Test Conditions: 22 %RH

45 °C

Measurement Uncertainty: +/-1.7 dB

Test Equipment Used: 1464-1484-1485-993

This device was tested at +/- 15% input power per 15.31(e), with no variation in output power.

For battery powered equipment, the device was tested with a fresh battery per 15.31(e).

The device was tested on three channels per 15.31(l).

This test was performed radiated.

FCC PART 15, SUBPART C
Digital Transmission Systems
Test Report No.: 4078RUS1

EQUIPMENT: 8200001

Section 5. Spurious Emissions

NAME OF TEST: Radiated Emissions PARA. NO.: 15.247 (d)

TESTED BY: David Light DATE: 08 October 2007

Test Results: Complies.

Measurement Data: See attached.

Test Conditions: 22 %RH

°C

45

Measurement Uncertainty: +/-1.7 dB

Test Equipment Used: 1464-1484-1485-993-759-760-1016-791

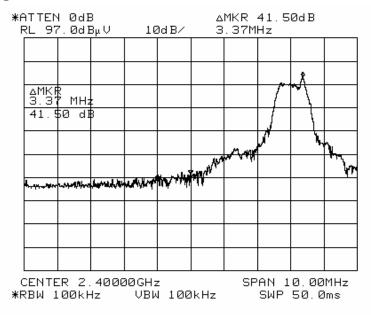
Notes:

	For handheld devices, the EUT was tested on three orthogonal axis'
\boxtimes	The device was tested from 30 MHz to the tenth harmonic of the highest fundamental frequency per 15.33
	The device was tested on three channels per 15.31(I).
	No emissions were detected within 20 dB of the specification limit therefore none are reported per 15.31(o). Band edge data is presented below.

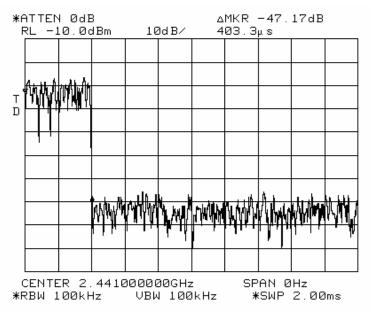
RBW=VBW=100 kHz below 1000 MHz RBW=VBW=1 MHz above 1000 MHz

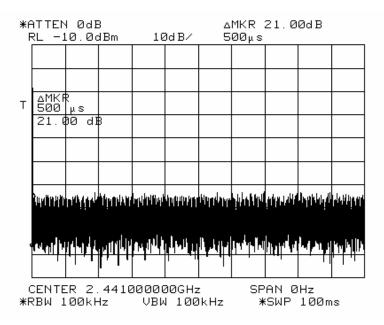
EQUIPMENT: 8200001 Test Report No.: 4078RUS1

Lower Band Edge Emissions



Duty Cycle Correction





Radiated Emissions

Freq MHz Rdng MHz Cable dBμV Cable dB dB Horn Duty dB Dist Dist Dist Dist Day dB dB dB Corr Spec Margin dBμV/m dBμV/m dBμV/m dBμV/m dBμV/m dB An Dist Day Day Dist Day Dist Day
MHz dBμV dB dB dB dB Table dBμV/m dBμV/m dBμV/m dBμV/m dB An Low Channel An Low Channel 4806.00 63.3 +1.0 +3.2 +33.1 -32.5 +0.0 68.1 74.0 -5.9 Hor
Low Channel 4806.00 63.3 +1.0 +3.2 +33.1 -32.5 +0.0 68.1 74.0 -5.9 Hor Peak 4806.00 63.3 +1.0 +3.2 +33.1 -32.5 +0.0 20.2 54.0 -33.8 Hor Average 7209.00 47.8 +1.2 +3.9 +35.8 -32.1 +0.0 56.6 74.0 -17.4 Hor Peak 7209.00 47.8 +1.2 +3.9 +35.8 -32.1 +0.0 8.7 54.0 -45.3 Hor Peak 4806.00 48.2 +1.0 +3.2 +33.1 -32.5 +0.0 53.0 54.0 -1.0 Verify Ve
4806.00 63.3 +1.0 +3.2 +33.1 -32.5 +0.0 68.1 74.0 -5.9 Hor Peak 4806.00 63.3 +1.0 +3.2 +33.1 -32.5 +0.0 20.2 54.0 -33.8 Hor Average 7209.00 47.8 +1.2 +3.9 +35.8 -32.1 +0.0 56.6 74.0 -17.4 Hor Average 4806.00 47.8 +1.2 +3.9 +35.8 -32.1 +0.0 8.7 54.0 -45.3 Hor Average 4806.00 48.2 +1.0 +3.2 +33.1 -32.5 +0.0 53.0 54.0 -1.0 Verick Peak +0.0 4882.00 57.2 +1.0 +3.3 +33.4 -32.6 +0.0 62.3 74.0 -11.7 Verick Average -47.9 4881.70 68.2 +1.0 +3.3 +33.4 -32.6 +0.0 73.3 74.0 -0.7 Hor Hor Average 4881.70 68.2 +1.0 +3.3 +33.4 -32.6 +0.0 <
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4806.00 63.3 +1.0 +3.2 +33.1 -32.5 +0.0 20.2 54.0 -33.8 Hor Average 7209.00 47.8 +1.2 +3.9 +35.8 -32.1 +0.0 56.6 74.0 -17.4 Hor Average 7209.00 47.8 +1.2 +3.9 +35.8 -32.1 +0.0 8.7 54.0 -45.3 Hor Average 4806.00 48.2 +1.0 +3.2 +33.1 -32.5 +0.0 53.0 54.0 -1.0 Verage Peak +0.0 4882.00 57.2 +1.0 +3.3 +33.4 -32.6 +0.0 62.3 74.0 -11.7 Verage 4881.70 68.2 +1.0 +3.3 +33.4 -32.6 +0.0 73.3 74.0 -0.7 Hor
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Mid Channel 4882.00 57.2 +1.0 +3.3 +33.4 -32.6 +0.0 62.3 74.0 -11.7 Ve Peak +0.0 4882.00 57.2 +1.0 +3.3 +33.4 -32.6 +0.0 14.4 54.0 -39.6 Ve Average -47.9 4881.70 68.2 +1.0 +3.3 +33.4 -32.6 +0.0 73.3 74.0 -0.7 Hor Peak +0.0
4882.00 57.2 +1.0 +3.3 +33.4 -32.6 +0.0 62.3 74.0 -11.7 Ve Peak +0.0 4882.00 57.2 +1.0 +3.3 +33.4 -32.6 +0.0 14.4 54.0 -39.6 Ve Average -47.9 4881.70 68.2 +1.0 +3.3 +33.4 -32.6 +0.0 73.3 74.0 -0.7 Hor Peak +0.0
Peak +0.0 4882.00 57.2 +1.0 +3.3 +33.4 -32.6 +0.0 14.4 54.0 -39.6 Verenage Average -47.9 4881.70 68.2 +1.0 +3.3 +33.4 -32.6 +0.0 73.3 74.0 -0.7 Horenage Peak +0.0
Peak +0.0 4882.00 57.2 +1.0 +3.3 +33.4 -32.6 +0.0 14.4 54.0 -39.6 Verenage Average -47.9 4881.70 68.2 +1.0 +3.3 +33.4 -32.6 +0.0 73.3 74.0 -0.7 Horestand Peak +0.0
4882.00 57.2 +1.0 +3.3 +33.4 -32.6 +0.0 14.4 54.0 -39.6 Verage -47.9 4881.70 68.2 +1.0 +3.3 +33.4 -32.6 +0.0 73.3 74.0 -0.7 Hor Peak
Average -47.9 4881.70 68.2 +1.0 +3.3 +33.4 -32.6 +0.0 73.3 74.0 -0.7 Hor Peak +0.0
4881.70 68.2 +1.0 +3.3 +33.4 -32.6 +0.0 73.3 74.0 -0.7 Hor Peak +0.0
Peak +0.0
400 L/U
Average -47.9
7322.70 45.5 +1.2 +4.0 +35.8 -32.3 +0.0 54.2 74.0 -19.8 Hor
Peak +0.0
7322.70 45.5 +1.2 +4.0 +35.8 -32.3 +0.0 6.3 54.0 -47.7 Hor
Average -47.9
High Channel
2483.50 64.5 +0.8 +2.3 +29.0 -32.8 +0.0 63.8 74.0 -10.2 Hor
Peak +0.0 +0.8 +2.3 +29.0 -32.8 +0.0 63.8 74.0 -10.2 Hol
2483.50 64.5 +0.8 +2.3 +29.0 -32.8 +0.0 15.9 54.0 -38.1 Hor
Average -47.9
4958.00 66.8 +1.0 +3.3 +33.7 -32.6 +0.0 72.2 74.0 -1.8 Hor
Peak +0.0
4958.00 66.8 +1.0 +3.3 +33.7 -32.6 +0.0 24.3 54.0 -29.7 Hor
Average -47.9
7437.00 41.2 +1.2 +4.1 +35.9 -32.5 +0.0 49.9 54.0 -4.1 Hor
Peak +0.0
2483.50 63.7 +0.8 +2.3 +29.0 -32.8 +0.0 63.0 74.0 -11.0 Ve
Peak +0.0
2483.50 63.7 +0.8 +2.3 +29.0 -32.8 +0.0 15.1 54.0 -38.9 Ve
Average -47.9
4958.00 56.2 +1.0 +3.3 +33.7 -32.6 +0.0 61.6 74.0 -12.4 Ve
Peak +0.0
4958.00 56.2 +1.0 +3.3 +33.7 -32.6 +0.0 13.7 54.0 -40.3 Ve
Average -47.9

EQUIPMENT: 8200001

FCC PART 15, SUBPART C
Digital Transmission Systems
Test Report No.: 4078RUS1

Section 6. Peak Power Spectral Density

NAME OF TEST: Peak Power Spectral Density PARA. NO.: 15.247(e)

TESTED BY: David Light DATE: 08 October

Test Results: Complies.

Measurement Data: See attached data..

Frequency (MHz)	Measured Power (dBm)	Antenna Gain (dBi)	Calculated Spectral Density (dBm)
2403	-23.1	3	-26.1
2441	-21.9	3	-24.9
2479	-20.2	3	-23.2

Test Conditions: 22 %RH

45 °C

Measurement Uncertainty: +/-1.7 dB

Test Equipment Used: 1464-1484-1485-993

Section 7. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/24/07	01/24/09
1484	Cable	Storm PR90-010-072	N/A	05/02/07	05/01/08
1485	Cable	Storm PR90-010-216	N/A	05/02/07	05/01/08
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	05/01/07	04/30/08
791	PREAMP, 25dB	Nemko USA, Inc. LNA25	398	05/01/07	04/30/08
993	Horn antenna	A.H. Systems SAS-200/571	XXX	08/31/07	08/31/09
759	ANTENNA, LOG PERIODIC	A.H. SYSTEMS SAS-200/510	556	03/30/07	03/29/08
760	Antenna biconical	Electro Metrics MFC-25	477	01/19/07	01/19/08

FCC PART 15, SUBPART C
Digital Transmission Systems
Test Report No.: 4078RUS1

EQUIPMENT: 8200001

ANNEX A - TEST DETAILS

FCC PART 15, SUBPART C
Digital Transmission Systems
Test Report No.: 4078RUS1

EQUIPMENT: 8200001

NAME OF TEST: Occupied Bandwidth PARA. NO.: 15.247(a)(2)

Minimum Standard: The minimum 6 dB bandwidth shall be at least 500 kHz

NAME OF TEST: Maximum Peak Output Power PARA. NO.: 15.247(b)(3)

Minimum Standard:

The maximum peak output power shall not exceed 1 watt.

If transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point to point operation may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceed 6 dBi.

Systems operating in the 5725 – 5850 MHz band that are used exclusively for fixed, point-to-point operation may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.

Direct Measurement Method For Detachable Antennas:

If the antenna is detachable, a peak power meter is used to measure the power output with the transmitter operating into a 50 ohm load. The dBi gain of the antenna(s) employed shall be reported.

Substitution Antenna Method for Integral Antennas:

The peak field strength of the carrier is measured in a worst-case configuration with a RBW > 5 times the occupied bandwidth of the transmitted waveform. For cases where the RBW of the test instrument is not sufficient, the power is measured using a peak power meter instead of the spectrum analyzer.

The RBW of the spectrum analyzer shall be set to a value greater than the measured 6 dB occupied bandwidth of the E.U.T.

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

FCC PART 15, SUBPART C
Digital Transmission Systems
est Report No.: 4078RUS1

EQUIPMENT: 8200001 Test Report No.: 4078RUS1

NAME OF TEST: Occupied Bandwidth PARA. NO.: 15.247(a)(2)

Minimum Standard: Systems using digital modulation techniques may

operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth

shall be at least 500 kHz.

Method Of Measurement:

The spectrum analyzer is set as follows:

RBW = VBW = 100 kHz.

Span: Sufficient to display 6 dB bandwidth

LOG dB/div.: 10 dB

Sweep: Auto

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

NAME OF TEST: Spurious Emissions(conducted) PARA. NO.: 15.247(d)

Minimum Standard: In any 100kHz bandwidth outside the frequency band in which the

transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits. Emissions falling in the

restricted bands of 15.205 shall not exceed the following field

strength limits:

Frequency (MHz)	Field Strength (μV/m @ 3m)	Field Strength (dB @ 3m)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

THE SPECTRUM IS SEARCHED TO THE 10th HARMONIC OF THE HIGHEST FREQUENCY GENERATED IN THE EUT.

Method Of Measurement:

30 MHz - 10th harmonic plot

RBW: 100 kHz VBW: 300 kHz Sweep: Auto Display line: -20 dBc

Lower Band Edge

RBW: At least 1% of span/div.

VBW: >RBW

Span: As necessary to display any spurious at band edge.

Sweep: Auto

Center Frequency: 902 MHz, 2400 MHz, or 5725 MHz

Marker: Peak of fundamental emission

Marker Δ : Peak of highest spurious level below center frequency.

Upper Band Edge

RBW: At least 1% of span/div.

VBW: >RBW

Span: As necessary to display any spurious at band edge.

Sweep: Auto

Center Frequency: 928 MHz, 2483.5 MHz, or 5850 MHz

Marker: Peak of fundamental emission

Marker Δ : Peak of highest spurious level above center frequency.

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

Digital Transmission Systems
Test Report No.: 4078RUS1

NAME OF TEST: Radiated Spurious Emissions PARA. NO.: 15.247(c)

Minimum Standard: In any 100kHz bandwidth outside the frequency band in which the

transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the

following field strength limits:

Emissions falling in the restricted bands of 15.205 shall not exceed the following field strength limits:

Frequency (MHz)	Field Strength (μV/m @ 3m)	Field Strength (dB @ 3m)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

THE SPECTRUM WAS SEARCHED TO THE 10th HARMONIC

15.205 Restricted Bands

MHz	MHz	MHz	GHz
0.09-0.11	16.42-16.423	399.9-410	4.5-5.25
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.125-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41	1718		

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

FCC PART 15, SUBPART C
Digital Transmission Systems
Test Report No.: 4078RUS1

EQUIPMENT: 8200001

NAME OF TEST: Transmitter Power Density PARA. NO.: 15.247(d)

Minimum Standard: The transmitted power density averaged over any 1 second

interval shall not be greater than +8 dBm in any 3 kHz

bandwidth.

Method Of Measurement: The spectrum analyzer is set as follows:

RBW: 3 kHz VBW: >3 kHz

Span: => measured 6 dB bandwidth

Sweep: Span(kHz)/3 (i.e. for a span of 1.5 MHz the sweep

rate is 1500/3 = 500 sec. LOG dB/div.: 2 dB

Note: For devices with spectrum line spacing =< 3 kHz, the RBW of the

analyzer is reduced until the spectral lines are resolved. The measurement data is normalized to 3 kHz by summing the power of all the individual spectral lines within a 3 kHz band in linear

power units.

For Devices With Integral Antenna:

For devices with non-detachable antennas, the received field strength is peaked and the spectrum analyzer is set as above. The peak emission level is then measured and converted to a field strength by adding the appropriate antenna factor and cable loss. This field strength is then converted to an equivalent isotropic radiated power using the same method as described for Peak Power output.

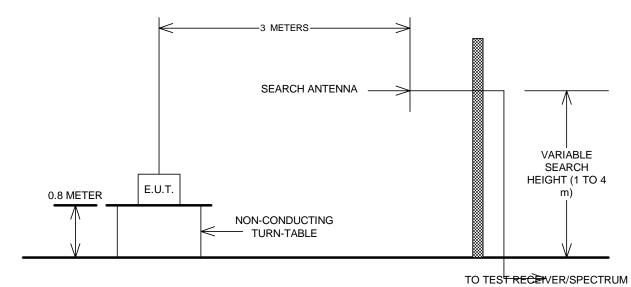
Tuning Range	Number Of Channels Tested	Channel Location In Band
1 MHz or Less	1	Middle
1 to 10 MHz	2	Top And Bottom
More Than 10 MHz	3	Top, Middle, Bottom

FCC PART 15, SUBPART C
Digital Transmission Systems
Test Report No.: 4078RUS1

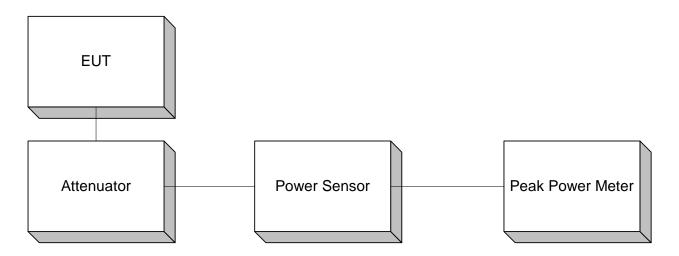
EQUIPMENT: 8200001

ANNEX B - TEST DIAGRAMS

Test Site For Radiated Emissions



Peak Power At Antenna Terminals



Note: A spectrum analyzer may be substituted for Peak Power Meter given that the measurement bandwidth is sufficient to capture the 6 dB bandwidth of the transmitter.

Minimum 6 dB Bandwidth Peak Power Spectral Density Spurious Emissions (conducted)

