Nemko Dallas Test Report:	2L0132RUS2
Applicant:	Indyme 9085 Aero Avenue San Diego, CA 92123
Equipment Under Test: (E.U.T.)	CB520 Callbox
In Accordance With:	FCC Part 15, Subpart C For Low Power Transmitters Operating Periodically In The Band 40.66 - 40.77 MHz And Above 70 MHz
Tested By:	Nemko Dallas, Inc. 802 N. Kealy Lewisville, TX 75057-3136
Authorized By:	John Fish, EMC Engineer
Date:	5/31/02
Total Number of Pages:	28

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FCC PART 15, SUBPART C LOW POWER TRANSMITTERS PROJECT NO.:2L0132RUS2

EQUIPMENT: CB520 Callbox

Section 1.	Summary of Test R	Results								
Manufacturer:	Indyme									
Model No.:	CB520 Callbox									
Sample No.:	2	2								
General: All measurements are traceable to national standards.										
compliance wi measurement p	ere conducted on a sample of the theorem of the Part 15, Subpart C, Paragramoredure ANSI C63.4-1992. Ration of the test facility is on file were	raph 15.231. All adiated emissions	l tests were conducted using							
	New Submission		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. NONE See "Summary of Test Data".



NVLAP LAB CODE: 100426-0

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This report applies only to the items tested.

Summary Of Test Data

Name of Test	Paragraph No.	Results		
Transmission Requirements	15.231(a)	Complies		
Radiated Emissions	15.231(b)	Complies		
Occupied Bandwidth	15.231(c)	Complies		
Frequency Tolerance	15.231(d)	N/A		
Alternate Field Strength Requirements	15.231(e)	N/A		
Powerline Conducted Emissions	15.207	N/A		

Footnotes:

- 1) The device operates above 70 MHz
- 2) The device is not a periodic transmitter
- 3) The device is battery powered.

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

General Equipment Information

Frequency Range: 303.825 MHz (Nominal)

Operating Frequency(ies) of Sample: 303.78 MHz

Type of Emission: Digital

Supply Power Requirement: Lifetime integral battery

Duty Cycle Correction Factor: -15.1 dB

FCC PART 15, SUBPART C LOW POWER TRANSMITTERS PROJECT NO.:2L0132RUS2

EQUIPMENT: CB520 Callbox

Description of E.U.T.

The unit is a microprocessor controlled callbox that is a self contained low transmit power unit with an integral lifetime battery (estimated lifetime is 7-10 years under normal use). It is installed in a nonconductive plastic enclosure with customer specific graphic overlays.

The unit operates at a nominal frequency of 303.825 MHz using an RFM HX1002-1 hybrid transmitter module and a permanently attached wire antenna

Modifications Incorporated in E.U.T.

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

FCC PART 15, SUBPART C LOW POWER TRANSMITTERS PROJECT NO.:2L0132RUS2

EQUIPMENT: CB520 Callbox

Justification

The E.U.T. was configured for testing as per typical installation.

The following combinations were investigated to establish worst case configuration:

- (1) Lying flat
- (2) Upright
- (3) Lying on edge

Exercise Mode

The E.U.T. exercise mode used during radiated and conducted testing was designed to exercise the various system components in a manner similar to typical use.

Exercise mode:

- (1) Transmit full power
- (2)
- (3)
- (4)
- (5)
- (6)

Section 3. Equipment Configuration

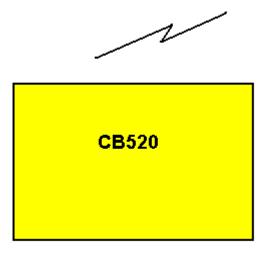
Equipment Configuration List:

Item	Description	Model No.	Serial.	Rev.
(A)	Callbox	CB520	None	
(B)				

Inter-connection Cables:

Item	Description	Length (m)
(1)	There are no interconnecting cables	
(2)		

Configuration of the Equipment Under Test (E.U.T)



Section 4. Transmission Requirements

NAME OF TEST: Transmission Requirements PARA. NO.: 15.231(a)

TESTED BY: David Light DATE: 5/30/2002

Minimum Standard:

15.231(a) Continuous transmissions such as voice, video or data transmissions are not permitted.

15.231(a)(1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds after being released.

15.231(a)(2) A transmitter activated automatically shall cease transmission within 5 seconds of activation.

15.231(a)(3) Periodic transmissions at regular predetermined intervals are not permitted. However polling or supervisory transmissions to determine system integrity of transmitters used in security or safety applications are allowed if the periodic rate of transmission does not exceed one transmission of not more than one second duration per hour for each transmitter.

15.231(a)(4) Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm.

Test Results: Complies.

Test Data: Compliance was determined by verification of technical

specifications and a functional test on the equipment.

FCC PART 15, SUBPART C LOW POWER TRANSMITTERS PROJECT NO.:2L0132RUS2

EQUIPMENT: CB520 Callbox

Rationale for Compliance with Transmission Requirements

15.231(a)(1) 15.231(a)(2):	Manual activation Automatic activation	TX deactivation time:
15.231(a)(3):	Regular, predetermined transmissions Polling or supervisory transmissions	TX rate and duration:
15.231(a)(4):	Alarm device operating during the pendancy Non-alarm device	of alarm condition

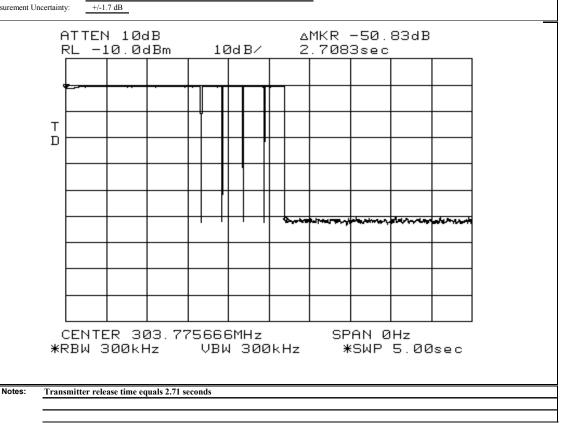
Test Data – Transmission Requirements



Nemko Dallas, Inc.

Dallas Headquarters:
802 N. Kealy
Lewisville, TX 75057
Tel: (972) 436-9600
Fax: (972) 436-2667

Data Plot **Transmitter Release Time** Page <u>1</u> of <u>1</u> Complete X Date: 5/30/2002 Preliminary: Job No.: 2L0132 Temperature(°C): Specification: 15.231(a)(1) 24 Tested By: David Light Relative Humidity(%) E.U.T.: CB520 Configuration: TX Sample Number: Lab 1 RBW: Refer to plots Location: Measurement Distance: Detector Type: Peak VBW: Refer to plots Test Equipment Used Directional Coupler: Antenna: Pre-Amp: Cable #1: 1629 Filter: Cable #2: 1464 Receiver: Cable #3: Attenuator #1 Cable #4: Attenuator #2 Mixer: Additional equipment used: Measurement Uncertainty:



EQUIPMENT: CB520 Callbox PROJECT NO.:2L0132RUS2

Section 5. Radiated Emissions

NAME OF TEST: Radiated Emissions PARA. NO.: 15.231(b)

TESTED BY: David Light DATE: 5/31/2002

Minimum Standard:

Permissible Field Strength Limits (Momentarily Operated Devices

Fundamental Frequency (MHz)	Field Strength of Fundamental Microvolts/Meter at 3 meters; (watts)	Field Strength of Unwanted Emissions Microvolts/Meter at 3 meters; (watts)				
40.66 - 40.70	2,250	225				
70-130	1, 250	125				
130-174	1,250 to 3,750*	125 to 375				
174-260 (note 1)	3,750	375				
260-470 (note 1)	3,750 to 12,500*	375 to 1,250				
Above 470	12,500	1,250				

Notes:

# Use quasi-peak or averaging meter.	For 130 - 174 MHz: FS (microvolts/m) = $(56.82 x F) - 6136$
* Linear interpolation with frequency F in MHz	For 260 - 470 MHz: FS (microvolts/m) = $(41.67 x F) - 7083$

Any emissions that fall within the restricted bands of 15.205 shall not exceed the following 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

Test Results: Complies. The worst-case emission level is $50.0 \text{ dB}\mu\text{V/m}$ @ 3m at 911.4 MHz. This is 4.7 dB below the specification limit of $54.7 \text{ dB}\mu\text{V/m}$.

Test Data: See attached table.

Above 1 GHz a spectrum analyzer and low noise amplifier are used to measure emission levels. The spectrum analyzer resolution bandwidth was set to 1 MHz and video bandwidth was 3 MHz.

In the case of handheld equipment, the E.U.T. is rotated in three planes to obtain worst-case results.

Test Data - Radiated Emissions



Dallas Headquarters:

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Nemko Dallas, Inc.

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Tested By:	David L	ight					ty(%)	40	_								
E.U.T.:	CB520								_								
Configuration:	TX											_					
Sample Number:												_					
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Pre-Amp:								Cable #									
Filter:												_					
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Test Data – Continued



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Page 2 c	of 2																							ŀ
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EQUIPMENT: CB520 Callbox PROJECT NO.:2

Test Data – Continued



Dallas Headquarters:

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Radiated Emissions Data											
Complete Preliminary	X	-		Nadiak	su Lilliss	nons Da	Job#:	2L0132 Page		Test # : <u>RE-1</u> of 1	
Client Name: EUT Name: EUT Model # EUT Part #: EUT Serial #: EUT Config.:	NA	X	case) Tx	full powe	er						
Specification: Rod. Ant. #: Bicon Ant.#: Log Ant.#: Bilog Ant.#: Dipole Ant.#: Cable#: Preamp#: Limiter#: Atten #: Detector#:	15.231(b 1034 1983 791 NA NA 1464) - - - - - -			22 45 AOATS 3m	Time : 6:30 Staff : Light Photo ID: None Peak Bandwidth:100 kHz Video Bandwidth100 kHz					
Meas. Ant. Freq. Pol. (MHz) (H/V)	Duty Cycle (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. limit (dBuV/m)	CR/SL Diff. (dB)	Pass Fail Unc.	Comment	
303.8 V 607.6 V 911.4 V	-15.1 -15.1 -15.1	54.5 36.2 31.5	20.4 19.2 24.7	4.6 6.7 8.6	0.0 0.0 0.0	64.4 47.0 49.7	74.7 54.7 54.7	-10.3 -7.7 -5.0	Pass Pass Pass	Noise floor	
303.8 H 607.6 H 911.4 H	-15.1 -15.1 -15.1	59.2 35.8 34.7	20.4 18.9 21.8	4.6 6.7 8.6	0.0 0.0 0.0	69.1 46.3 50.0	74.7 54.7 54.7	-5.6 -8.4 -4.7	Pass Pass Pass		
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Test Data - Continued



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Radiated Emissions

Page 1 of 1 2L0132 Date: 5/31/02 Job No.: Specification: 15.231 Temperature(°C): 22 Relative Humidity(%) 45 Tested By: David Light

E.U.T.: CB520

UPRIGHT - TX FULL POWER Configuration: Sample Number: 2

Location: AC 3 RBW: 1 MHz Detector Type: VBW: 1 MHz Peak

Test Equipment Used

1304 #N/A Directional Coupler: Antenna: Cable #1: 1484 Pre-Amp: 1016 Filter: #N/A Cable #2: 1485 #N/A 1464 Cable #3: Receiver: #N/A Attenuator #1 #N/A Cable #4: Attenuator #2: #N/A #N/A Mixer:

an average measurement was not made.

Measurement +/- .7 dB Uncertainty:

Frequency (GHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Pre-Amp Gain (dB)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Delta (dB)	Comment
								Refer to legend below
1.215	52.5	23.1	1.6	32.2	45.0	54.0	-9.0	H - RB - P
1.519	50.5	24.3	2.4	32.8	44.4	54.0	-9.6	H - RB - P
1.823	45.0	27.6	2.7	33.3	42.0	54.7	-12.7	H - NF - P
2.127	38.7	27.9	2.9	33.3	36.2	54.7	-18.5	H - DC
2.430	42.9	28.2	3.1	33.8	40.4	54.7	-14.3	H - DC
2.734	55.3	28.2	3.7	33.5	53.7	74.0	-20.3	H - RB - P
2.734	40.2	28.2	3.7	33.5	38.6	54.0	-15.4	H - RP - A
3.038	29.9	30.0	3.4	33.8	29.5	54.7	-25.2	H - DC
1.215	51.0	23.1	1.6	32.2	43.5	54.0	-10.5	V - RB - P
1.519	46.3	24.3	2.4	32.8	40.2	54.0	-13.8	V - RB - P
1.823	35.1	27.6	2.7	33.3	32.1	54.7	-22.6	V - P
2.127	37.7	27.9	2.9	33.3	35.2	54.7	-19.5	V - DC
2.430	46.6	28.2	3.1	33.8	44.1	54.7	-10.6	V - DC
2.734	54.1	28.2	3.7	33.5	52.5	74.0	-21.5	V - RB - P
2.734	39.0	28.2	3.7	33.5	37.4	54.0	-16.6	V - RP - A
3.038	32.9	30.0	3.4	33.8	32.5	54.7	-22.2	V - DC
Legend:	V=Vertical							
	H=Horizon	ıtal	Scanned to the 10th					
	P=Peak De	tector	harmonic					
	A=Average	detector						
Notes:	If the PEAl	K measurem	bands by n	nore than 2 dB, then Avera				

Radiated Photographs (Worst Case Configuration)

FRONT VIEW



REAR VIEW



FCC PART 15, SUBPART C LOW POWER TRANSMITTERS PROJECT NO.:2L0132RUS2

EQUIPMENT: CB520 Callbox

Section 6. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth PARA. NO.: 15.231(c)

TESTED BY: David Light DATE: 5/30/2002

Minimum Standard: 15.231(c) The bandwidth of the emission shall be no wider than

0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the

modulated carrier.

Test Results: Complies. See attached graph.

Test Data: See attached graph.

-120

Date: Notes:

Center 303.7989579 MHz

11.JUL.2002 09:04:22

EQUIPMENT: CB520 Callbox

Test Data - Occupied Bandwidth



Dallas Headquarters: 802 N. Kealy

802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667

Nemko Dallas, Inc. Data Plot 20 dB Bandwidth Page $\underline{1}$ of $\underline{1}$ Complete Date: 7/11/2002 Preliminary: Job No.: 21.0132 Specification: 15.231(c) Temperature(°C): Tested By: David Light Relative Humidity(%) EUT: CB520 Configuration: Sample Number: Location: Lab 1 RBW: Refer to plots Measurement Detector Type: Peak VBW: Refer to plots Distance: na Test Equipment Used Antenna: Directional Coupler: Pre-Amp: Cable #1: Filter: Cable #2: 1036 Receiver: Cable #3: Attenuator #1 Cable #4: Attenuator #2: 802 Additional equipment used: Measurement Uncertainty: +/-1.7 dB 1U dB кви Ref Lv1 -36.69 dBm VBW 50 kHz -20 dBm 303.76326152 MHz SWT 5 ms Un ī t dBm -20 -3E 69 dBn Α 3.76326 152 MHz -30 8.53208 413 kHz -40 -50 1AP **1VIFU** -60 -70 -80 _ 1 N C -110

118.75 kHz/

Span 1.1875 MHz

Section 7. Frequency Tolerance Devices in the Frequency Band 40.66 - 40.77 MHz

NAME OF TEST: Frequency Tolerance PARA. NO.: 15.231(d)

TESTED BY: DATE:

Minimum Standard: 15.231(d) For devices operating within the frequency band 40.66 -

40.70 MHz, the bandwidth of the emission shall be confined within the band edges and the frequency tolerance of the carrier shall be $\pm 0.01\%$. This frequency tolerance shall be maintained for a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary power supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the

equipment tests shall be performed using a new battery.

Test Results: Not Applicable. The device does not operate in this range.

Test Data: See attached graph.

Section 8. Periodic Alternate Field Strength Requirements

NAME OF TEST: Periodic Alternate Field Strength Requirements	PARA. NO.: 15.231(e)
TESTED BY:	DATE:

Minimum Standard:

15.231(e) Intentional radiators may operate at a periodic rate exceeding that specified in paragraph (a) of this section and may be employed for any type of operation, including operation prohibited in paragraph (a) of this section, provided the intentional radiator complies with the provisions of paragraphs (b) through (d) of this section, except the field strength table in paragraph (b) of this section is replaced by the following.

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	1,000	100
70 - 130	500	50
130 - 174	500 to 1,500	50 to 150
174 - 260	1,500	150
260-470	1,500 to 5,000	150 to 500
Above 470	5,000	500

In addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

Test Results: Not applicable. The device is not a periodic transmitter.

Test Data: See attached table.

FCC PART 15, SUBPART C LOW POWER TRANSMITTERS PROJECT NO.:2L0132RUS2

EQUIPMENT: CB520 Callbox

Section 9. Powerline Conducted Emissions

NAME OF TEST: Powerline Conducted Emissions	PARA. NO.: 15.207
TESTED BY:	DATE:

Minimum Standard:

Frequency(MHz)	Maximum Powerline Conducted RF Voltage					
	μV	dΒμV				
0.45 - 30.0	250	48				

Test Results: Not applicable. The device is battery powered.

Test Data: See attached graphs and table.

Method Of Measurement: (Procedure ANSI C63.4-1992)

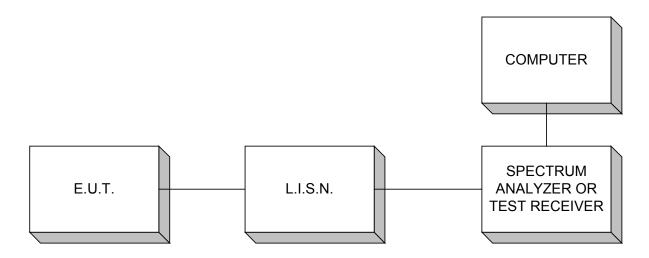
Measurements were made using a spectrum analyzer with 10 kHz RBW, Peak detector. Any emissions that are close to the limit are measured using a test receiver with 10 kHz bandwidth, CISPR Quasi-Peak detector.

Broadband emissions are identified by switching the receiver detector function from Quasi-Peak to Average. If the amplitude of the emission drops by 6 dB or more then the emission is classified as broadband and the Quasi-Peak level is reduced by a factor of 13 dB.

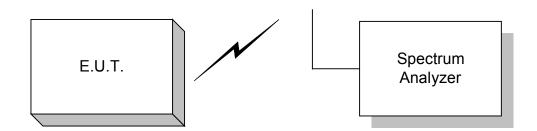
All emissions within 10 dB of limit have been recorded.

Section 10. Block Diagrams

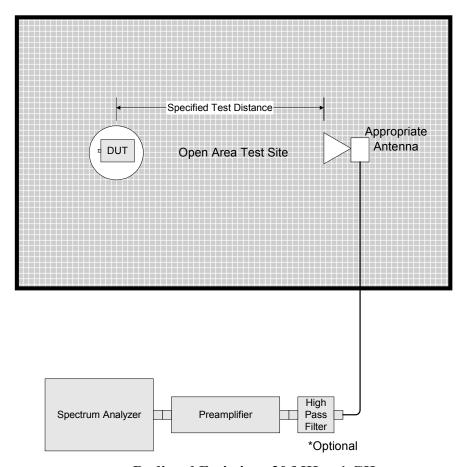
Conducted Emissions



Occupied Bandwidth, Duty Cycle

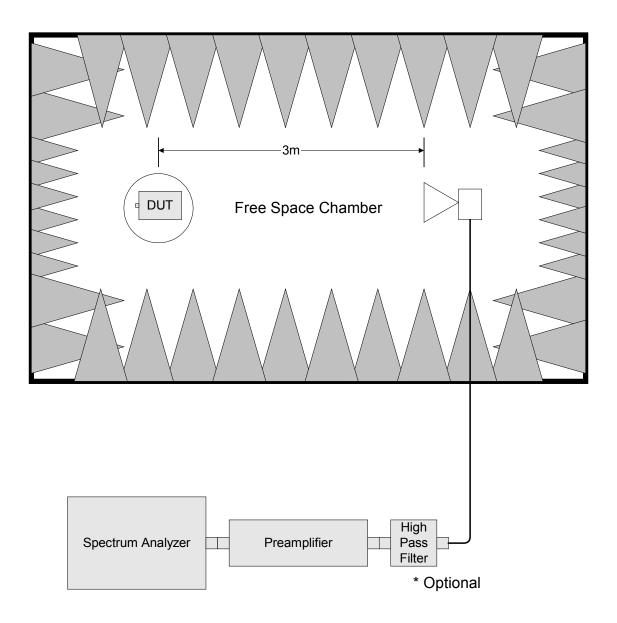


Outdoor Test Site For Radiated Emissions



Radiated Emissions 30 MHz - 1 GHz

The spectrum was searched up to the 10th harmonic of the fundamental frequency of operation.



Radiated Emissions above 1 GHz

Section 11. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	06/01/01
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	06/01/01
1464	Spectrum analyzer (2 yr cal)	Hewlett Packard 8563E	3551A04428	01/02/01
1304	HORN ANTENNA	ELECTRO METRICS RGA-60	6151	07/30/01
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	05/30/01
791	PREAMP, 25dB	ICC LNA25	398	08/16/01
1034	ANTENNA,LP	A.H. SYSTEMS SAS-200/510	121	05/09/02
1983	CABLE	KTL Site A OATS	N/A	09/25/01
1629	CABLE, 6 ft	MEGAPHASE 10311 1GVT4	N/A	CBU
802	Near Field Probe Set	EMCO 7405	103	N/A
1036	Spectrum analyzer 2 yr cal	Rohde & Schwarz FSEK30	830844/006	12/18/01

ANNEX A - RESTRICTED BANDS

Annex A Restricted Bands of Operation

(a) Except as shown in paragraph (d) of this section , only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42-16.423	399.9-410	4.5-5.15
0.49 - 0.51	16.69475-16.69525	608-614	5.35-5.46
2.1735 - 2.1905	16.80425-16.80475	960-1240	7.25-7.75
3.020 - 3.026	25.5-25.67	1300-1427	8.025-8.5
4.125 - 4.128	37.5-38.25	1435-1626.6	9.0-9.2
4.17725 - 4.17775	73-74.6	1645.5-1646.5	9.3-9.5
4.20725 - 4.20775	74.8-75.2	1660-1710	10.6-12.7
6.215 - 6.218	108-121.94	1718.8-1722.2	13.25-13.4
6.31175 - 6.31225	123-138	2220-2300	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		_	