

Test Report:

5W45697, issue 2

Applicant:

Aastra Telecom Inc. 155 Snow Boulevard Concord, ON L4K 4N9

SDV480ICT

Equipment Under Test: (EUT)

In Accordance With:

FCC ID:

FCC Part 15, Subpart C Frequency Hopping Systems 2400 - 2483.5 MHz

480i Cordless Base Station

Tested By:

Nemko Canada Inc. 303 River Road, R.R. 5 Ottawa, Ontario K1V 1H2

Authorized By:

Sim Jagpal, General Manager

Date:

28 September 2005

Total Number of Pages:

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Section 1. Summary of Test Results

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 Frequency Hopping Spread Spectrum devices. 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.

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".

TESTED BY:

Xu Jin, Wireless Specialist

DATE: 28 September 2005

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This report applies only to the items tested.

Summary Of Test Data

Name Of Test	Para. No.	Result
Powerline Conducted Emissions	15.207(a)	Complied
Channel Separation	15.247(a)(1)	Complied
Time of Occupancy	15.247(a)(1)(iii)	Complied
20 dB Occupied Bandwidth	15.247(a)(1)	Complied
Number of Hopping Channels	15.247(a)(1)(iii)	Complied
Peak Power Output	15.247(b)(1)	Complied
Spurious Emissions (Antenna Conducted)	15.247(c)	N/A ⁽¹⁾
Spurious Emissions (Radiated)	15.247(c)	Complied

Footnotes For N/A's:

(1) No access port.

Test Conditions:

Indoor	Temperature: Humidity:	23°C 56 %
Outdoor	Temperature: Humidity:	24°C 70 %

Note:

Customer has declared that the radio circuitry is identical in the cordless handset to that previously assessed under Nemko Project 07975.(CM-16). They also declared that the external adaptor is identical to that assessed under Nemko Project 07975.

In this report, the test was only conducted against the 480i base station for EIRP and transmitter spurious emissions. The handset data and rest of the base station test result were taken from Nemko report 4W07975 and Nemko EMC report 5R45679.

Section 2. General Equip	General Equipment Specification		
Manufacturer:	Aastra Telecom Inc.		
Model No.:	Hand Unit: CM 16 Base Unit: 480i		
Serial No.:	Hand Unit: D80151401805 Base Unit: CLSBR004		
Date Received In Laboratory:	May 25, 2005		
Nemko Identification No.:	Hand Unit: CM 16#10 Base Unit: 480i#9		
Frequency Range:	2400-2483 MHz		
Modulation	GFSK		
Tunable Bands:	1		
Number of Channels:	Base: 94 channels Handset: 94 channels		
Min. Channel Spacing:	Base: 877 KHz Handset: 860 KHz		
Emissions Designator:	667KF1D		
User Frequency Adjustment:	None		
Output Power:	Base: 23.01dBm (0.2 W) Handset: 23.77dBm (0.238 W)		

Section 3. Power line Conducted Emissions

Para. No.: 15.207 (a)

Test Performed By: Michel Dorion

Date of Test: May 25, 2005

Minimum Standard: CISPR 22-96

Limits For Conducted Disturbance At The Mains Ports Of Class B

Frequency Range MHz	Limits	Result	
	Quasi-Peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.5 to 5	56	46	Complies
5 to 30	60	50	-
Note:			

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50MHz.

Test Results:

Complied.

Measurement Data: See attached graph(s).



Conducted Disturbance—Base Unit







Conducted Disturbance—Hand Unit

EQUIPMENT: 480i Cordless Base Station



FCC PART 15, SUBPART C FREQUENCY HOPPING TRANSMITTERS PROJECT NO.: 5W45697, issue 2

EQUIPMENT: 480i Cordless Base Station

Test Setup Photo



Section 4. Channel Separation

Para. No.: 15.247 (a)(1)

Test Performed By: Kevin Carr & Daxesh Thakker	Date of Test: 12 May 2004 &
	25 June 2004

Test Results: Complied.

Measurement Data:	Minimum Channel Separation
	Base: 877 KHz, 20dB BW = 700kHz
	Handset: 860 KHz. $20dB BW = 708kHz$

Channel Separation Plots

Base



Handset



Section 5. Number of Hopping Channels

Para. No.: 15.247(a)(1)(iii)

Test Performed By: Kevin Carr & Daxesh Thakker	Date of Test: 11 May 2004 &
	25 June 2004

Test Results: Complied

Measurement Data:	Number of Hopping Channel Frequencies:
	Base: 94 channels
	Handset: 94 channels

Number of Hopping Channels Base station





EQUIPMENT: 480i Cordless Base Station



Band 4 showing 20 channels

EQUIPMENT: 480i Cordless Base Station



Band 5 showing 17 channels

94 channels total

EQUIPMENT: 480i Cordless Base Station

Handset







Band 2 showing 19 channels

EQUIPMENT: 480i Cordless Base Station



Band 3 showing 19 channels



Band 4 showing 20 channels

EQUIPMENT: 480i Cordless Base Station



Band 5 showing 17 channels

94 channels total

Section 6. Time of Occupancy

Para. No.: 15.247 (a)(1)(iii)

Test Performed By: Kevin Carr & Daxesh Thakker	Date of Test: May 11, 2004
	June 12, 2004

Test Results: Complies

Measurement Data: Maximum Dwell Time On Any Channel: See Plots.

> Base: 32 mSec Handset: 25.76 mSec

Time Of Occupancy Plots.

Base



Active Slot showing 1 mSec On-Time

Time of Occupancy showing 32 hits per 30sec

32 * 1 = 32 mSec

Handset



Active Slot showing 805 µSec On-Time

Time of Occupancy showing 32 hits per 30sec

32 * 0.805 = 25.76 mSec

Section 7. Occupied Bandwidth

Para. No.: 15.247 (a)(1))

Test Performed By: Kevin Carr & Daxesh Thakker		Date of Test: 12 May 2004, 25 June 2004, 18 Oct. 2004	
Test Results:	Complied		
Measurement Data:	See attached graphs.		
	Maximum 20 dB Bandwidtl	h	
	Base: 700 KHz		
	Handset: 708 KHz		
	Maximum 99% Occupied B	andwidth	
	Base: 658 KHz		
	Handset: 667 KHz		



Mid. Channel



Upper Channel





Mid channel



EQUIPMENT: 480i Cordless Base Station

Upper channel



Section 8. Peak Power Output

Para. No.: 15.247 (b)(1)

Xu Ji	n			
			Date of Tes	st: 16, June 2005
For free band en hoppin hoppin	quency hopping mploying at leas g systems in the g systems in the	systems operating in st 75 non-overlapping e 5725-5850 MHz ba 2400-2483.5 MHz ba	the 2400-248 hopping cha nd: 1 watt. and: 0.125 w	33.5 MHz nnels, and all frequency For all other frequency atts.
Compl	ied.			
The m the equ	aximum peak ₁ uation P = {E ² 1	power output of the $R^2/30G$), where	transmitter i	is calculated with
		E, V/mtr @ 3m	R, mtr	G
	Base	0.97	3	1.41
	Handset	1.49	3	2.81
Base = Hands The Ba power The H	= 0.2W, 23.01d et = 0.238W, 2 ase Station was level was obse andset was test	Bm 23.77dBm s tested at +/- 15% c erved. ted with a fresh batte	of AC line ve	oltage. No change in
	For fre band en hoppin hoppin Compl The m the equ Base = Hands The Ba power The H	For frequency hopping band employing at least hopping systems in the hopping systems in the Complied. The maximum peak p the equation $P = \{E^2\}$ Base Handset Base = 0.2W, 23.01d Handset = 0.238W, 2 The Base Station was power level was obset The Handset was test	For frequency hopping systems operating in band employing at least 75 non-overlapping hopping systems in the 5725-5850 MHz ba hopping systems in the 2400-2483.5 MHz ba Complied. The maximum peak power output of the the equation $P = \{E^2R^2/30G\}$, where $\boxed{E, V/mtr @ 3m}$ $\boxed{Base = 0.2W, 23.01dBm}$ $Handset = 0.238W, 23.77dBm$ The Base Station was tested at +/- 15% of power level was observed. The Handset was tested with a fresh batter	For frequency hopping systems operating in the 2400-248 band employing at least 75 non-overlapping hopping cha hopping systems in the 5725-5850 MHz band: 1 watt. hopping systems in the 2400-2483.5 MHz band: 0.125 w Complied. The maximum peak power output of the transmitter is the equation $P = \{E^2R^2/30G\}$, where $\boxed{E, V/mtr @ 3m R, mtr}$ $\boxed{Base = 0.2W, 23.01dBm}$ $Handset = 0.238W, 23.77dBm$ The Base Station was tested at +/- 15% of AC line very power level was observed. The Handset was tested with a fresh battery.

This EUT was searched in 3 orthogonal axes to determine worst-case emissions.

Measurement Data:	Detachable antenna? Yes No If yes, state the type of non-standard connector used at the antenna port:
	Directional Gain of Antenna: Base: 1.5 dBi or 1.41 Numeric. Handset: 4.5 dBi or 2.81 Numeric.
	Base (worst Case) Field Strength: 119.7 dBµV/m @ 3m or 0.97 V/m @ 3m.
	Handset (worst Case) Field Strength: 123.5 dBµV/m @ 3m or 1.49 V/m @ 3m.

Radiated Emissions Test Data:

Test Date: 16 June, 2005									
Engineer's Name: Xu Jin									
Base Station fundamental									
Tested as per (Table Top/Floor Standing): Table Top									
Test Distan	nce (meter	rs): 3			Range: 1				
Freq.	Ant.	Pol.	RCVD Signal	Ant. Factor	Cable	Field Strength	Dataator		
(MHz)		V/H	(dBµV)	(dB)	Loss (dB)	(dBµV/m)	Delector		
2401.0560	Horn1	Н	85.3	28.8	5.2	119.3	Peak		
2401.0560	Horn1	V	82.4	28.8	5.2	116.4	Peak		
2440.8000	Horn1	V	84.2	28.8	5.8	118.8	Peak		
2440.8000	Horn1	Н	85.1	28.8	5.8	119.7	Peak		
2482.2720	Horn1	Н	82.4	28.8	6.4	117.6	Peak		
2482.2720	Horn1	V	83.7	28.8	6.4	118.9	Peak		
Note 1: Anter	nna Legend	: BC = 1	Biconical, BL = B	ilog, LP = Log-Pe	eriodic, Horn = H	orn, ED = EMCO Dipe	ole		
Note 2: Detec	Note 2: Detector Legend: Q-Peak = 120 kHz RBW, Average = 1.0 MHz RBW								
		Below	1GHz, Peak dete	ctor with 100 kHz	2 RBW, 100KHz V	VBW			
		Above	1GHz, Peak dete	ctor with 1.0MHz	RBW, 1.0MHz V	VBW			

Test Date: 24 June, 2004										
Engineer's Name: Daxesh Thakker										
Handset fu	Handset fundamental									
Tested as per (Table Top/Floor Standing): Table Top										
Test Distanc	e (meters)): 3		Rar	age: 1					
Freq.	Ant.	Pol.	RCVD	Ant. Factor	Cable	Field Strength				
(MHz)		V/H	Signal	(dB)	Loss (dB)	(dBµV/m)				
			(dBµV)							
2401.1530	Horn1	V	82.0	29.2	4.8	116.0				
2401.1530	Horn1	Н	86.9	29.2	4.8	120.9				
2440.9200	Horn1	V	81.5	29.2	5.3	116.0				
2440.9200	Horn1	Н	86.5	29.2	5.3	121.0				
2482.2820	Horn1	V	77.6	29.2	5.9	112.7				
2482.2820	Horn1	Н	88.4	29.2	5.9	123.5				
Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole Note 2: Detector Legend: Q-Peak = 120 kHz RBW, Average = 1.0 MHz RBW										
Notes:		Measurer	nent Receiv	er = H.P.8565E, RI	BW = 1MHz					

Section 9. Spurious Emissions (Radiated)

Para. No.: 15.247 (c)

Test Performed	By: Phil Taffinder & Daxesh Thakker	Date of Test: 19 April 2004 &
	Xu Jin	10 June 2004 June 16, 2005
Test Results:	Complied.	
Test Data:	See attached table.	
Duty Cycle Calcu	ulation: Base: $20Log\{(10 \times 0.8)/100\} = -21.94$ Handset: $20Log\{(10 \times 0.805)/100\} = -3$	dB. 38.11dB, Max. allowed -20 dB.
Note:	The Spectrum was searched from 30M	Hz to 25GHz.
	These results apply to emissions found in FCC Part 15 Subpart C, 15.205.	l in the restricted bands defined
	The EUT was measured on three ortho	gonal axis.
	Average measurements were calculated correction factor and the peak measure	d using the duty cycle ement.
	Only emissions within 20dB below the	e limit have been reported

Ramated Distarbance Test Data. Dast station											
Test Date: 16 June, 2005											
Engineer's	Name: X	Ku Jin									
Tested as per (Table Top/Floor Standing): Table Top											
Test Distar	nce (mete	rs): 3				Rai	nge: 1				
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dBµV)	Ant. Factor (dB)	Amp. Gain (dB)	Duty Cycle Corr. Factor (dB)	Cable Loss (dB)	Field Strength (dBµV/ m)	Limit (dBµV/m)	Margin (dB)	Detector
Ch. 00											
4802.1120	Horn1	v	71.0	33.4	53.2	-21.9	7.3	36.6	54.0	17.4	Average
1002.1120	1101111	•	, 1.0	55.1	55.2	21.9	7.5	58.5	74.0	15.5	Peak
4802.1120	Horn1	н	69.5	33.5	53.2	-21.9	7.3	35.2	54.0	18.8	Average
			0710		00.2	-119	, 10	57.1	74.0	16.9	Peak
7203.1680	Horn1	н	61.4	36.7	53.7	-21.9	11.0	33.5	54.0	20.5	Average
			0111	0017		-119	1110	55.4	74.0	18.6	Peak
7203.1680	Horn1	v	60.7	36.5	53.7	-21.9	11.0	32.5	54.0	21.5	Average
			0017	00.0	0017		1110	54.4	74	19.6	Peak
Ch. 47											
4991 6000	II	v	71.1	22.4	52.6	21.0	0.0	38.0	54.0	16.0	Average
4881.0000	Horn1	v	/1.1	33.4	52.0	-21.9	8.0	59.9	74.0	14.1	Peak
1991 6000	Uorm1	ц	69.2	22.5	52.6	21.0	8.0	35.2	54.0	18.8	Average
4001.0000	пошт	п	08.2	55.5	52.0	-21.9	8.0	57.1	74.0	16.9	Peak
7222 4000	Uorm1	п	627	267	527	21.0	10.0	33.8	54.0	20.2	Average
7322.4000	1101111	11	02.7	30.7	55.7	-21.9	10.0	55.7	74.0	18.3	Peak
7322 4000	Horn1	v	64.1	36.5	537	21.0	10.0	35.0	54.0	19.0	Average
7322.4000	1101111	v	04.1	50.5	55.7	-21.9	10.0	56.9	74.0	17.1	Peak
Ch. 94											
1961 5110	Horn1	v	65.3	33 /	523	21.0	8.4	32.9	54.0	21.1	Average
4904.3440	1101111	v	05.5	55.4	52.5	-21.9	0.4	54.8	74.0	19.2	Peak
1961 5110	Horn1	н	67.5	33.5	523	21.0	8.4	35.2	54.0	18.8	Average
4904.3440	1101111	11	07.5	33.5	52.5	-21.9	0.4	57.1	74.0	16.9	Peak
7446 8160	Horn1	н	63.6	367	53.2	21.0	8.0	34.1	54.0	19.9	Average
7440.8100	1101111	11	05.0	30.7	55.2	-21.9	0.9	56.0	74.0	18.0	Peak
7446 8160	Horn1	v	64.1	36.5	53.2	21.0	80	34.4	54.0	19.6	Average
0.0100	1101111	v	04.1	50.5	55.2	-21.7	0.9	56.3	74.0	17.7	Peak
Note 1: Anter	nna Legend	: BC =	Biconical,	BL = Bilo	g, LP = L	og-Periodic,	Horn = Hc	orn, $ED = EN$	ICO Dipole		
Note 2: Detec	ctor Legend	l: Q-Peal	k = 120 kH	Iz RBW, A	Average =	1.0 MHz RE	BW				
Below 1GHz, Peak detector with 100 kHz RBW, 100KHz VBW											

Radiated Disturbance Test Data: Base station

Above 1GHz, Peak detector with 1.0MHz RBW, 1.0MHz VBW

Radiated Disturbance Test Data: Handset

Test Date: 24 June, 2004											
Engineer's	Name: D	axesh '	Thakker								
Tested as per (Table Top/Floor Standing): Table Top											
Test Distance (meters): 3 Range: 1											
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dBµV)	Ant. Factor (dB)	Amp. Gain (dB)	Duty Cycle Corr. Factor (dB)	Cable Loss (dB)	Field Strength (dBµV/m)	Limit (dBµV/ m)	Margin (dB)	Amp.
Ch. 00											
4802.2110	Horn1	V	62.8	34.3	53.2	-20.0	8.1	32.0	54.0	22.0	4-8GHz
4802.2110	Horn1	Н	61.4	34.1	53.2	-20.0	8.1	30.4	54.0	23.6	4-8GHz
7203.3170	Horn1	V	67.5	36.5	53.7	-20.0	11.3	41.6	54.0	12.4	4-8GHz
7203.3170	Horn1	Η	63.9	36.5	53.7	-20.0	11.3	38.0	54.0	16.0	4-8GHz
Ch. 47											
4842.0250	Horn1	V	59.6	34.3	52.9	-20.0	8.5	29.5	54.0	24.5	4-8GHz
4842.0250	Horn1	Н	60.4	34.2	52.9	-20.0	8.5	30.1	54.0	23.9	4-8GHz
7243.1310	Horn1	V	60.5	36.5	53.7	-20.0	11.2	34.6	54.0	19.4	4-8GHz
7243.1310	Horn1	Н	60.6	36.5	53.7	-20.0	11.2	34.6	54.0	19.4	4-8GHz
Ch. 94											
4964.5000	Horn1	V	60.0	34.4	52.3	-20.0	9.5	31.5	54.0	22.5	4-8GHz
4964.5000	Horn1	Η	60.0	34.2	52.3	-20.0	9.5	31.3	54.0	22.7	4-8GHz
7446.7500	Horn1	V	60.3	36.5	53.2	-20.0	11.1	34.8	54.0	19.2	4-8GHz
7446.7500	Horn1	Н	60.6	36.5	53.2	-20.0	11.1	35.1	54.0	18.9	4-8GHz
Note 1: Anter Note 2: Detec Note 3: The	nna Legend ctor Legend EUT was	BC = 1 : Q-Peal searche	Biconical, E k = 120 kHz ed up to 10	BL = Bilog z RBW, A harmoni	g, LP = Lo verage = 1 cs of the	g-Periodic, 1.0 MHz RB fundament	Horn = Horn, E W tal.	ED = EMCO D	Dipole		
Notes:		Meas	surement 1	Receiver	= H.P.8	8565E, RE	BW = 1MHz				

Digital Emissions											
Test Date:	01-June	-2005									
Engineer's	s Name: l	Michel	l Dorion								
Tested as per: Table Top											
Mains Input Voltage: 120 VACMains Input Frequency: 60 Hz											
						I					
Enclosure	e Investi	gation	n Data								
Test Dista	nce (met	ers): 3				Do	me: 2				
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dBµV)	Ant. Factor (dB)	Amp. Gain (dB)	Cable Loss (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Amp.
499.9820	LP1	V	22.7	17.6	N/A	4.1	44.4	46.0	1.6	Q-Peak	N/A
599.9792	LP1	V	19.8	18.8	N/A	4.5	43.1	46.0	2.9	Q-Peak	N/A
599.9810	LP1	Н	18.7	19.8	N/A	4.5	43.0	46.0	3.0	Q-Peak	N/A
699.9748	LP1	V	18.1	21.0	N/A	4.9	44.0	46.0	2.0	Q-Peak	N/A
699.9777	LP1	Н	16.8	21.2	N/A	4.9	42.9	46.0	3.1	Q-Peak	N/A
799.9725	LP1	Н	15.6	22.5	N/A	5.2	43.3	46.0	2.7	Q-Peak	N/A
Legend: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole Detector Legend: Q-Peak = 120kHz RBW, Average = 1.0MHz RBW											

FCC PART 15, SUBPART C FREQUENCY HOPPING TRANSMITTERS PROJECT NO.: 5W45697, issue 2

EQUIPMENT: 480i Cordless Base Station

Duty Cycle Plots Base station



Date: 16.JUN.2005 15:17:58



Date: 16.JUN.2005 15:21:55

Handset



20dB Band Edge Handset



EQUIPMENT: 480i Cordless Base Station



EQUIPMENT: 480i Cordless Base Station

20 dB Band Edge Base Unit __Low band edge Hopping off



Date: 16.JUN.2005 15:30:35

Hopping on



Date: 16.JUN.2005 17:04:36



Base Unit___ High Band Edge Hopping off

Date: 16.JUN.2005 15:37:31

Hopping on



Date: 16.JUN.2005 17:17:30



Band Edge (Restricted Band) Marker Delta Method Calculation: Handset

Date: 25.JUN.2004 00:44:50

Peak Level, Band Edge = 88.4 dBuV + 29.2dB + 5.9 = 123.5dBuV @ 3m. Peak Band Edge Level (Marker Delta): = 123.5 dBuV/m – 49.84 = 73.66dBuV/m at 3 m. Average = 73.66 dBuV/m -20 = 53.66 dBuV/m @ 3m. Limit is 54 dBuV/m @ 3m.

EQUIPMENT: 480i Cordless Base Station



Restricted Band Check---- Marker Delta Measurement

Date: 16.JUN.2005 17:53:08

Measured Peak Field Strength for highest Channel 94: 118.9dBuV/m at 3m. Delta Value from Higher Level of Fundamental to Restricted Band Edge=-45.51dB

Peak Band Edge Level (Marker Delta): = 118.9dBuV/m - 45.51dB = 73.39dBuV/m at 3 m. Limit=74dBuV/m at 3m.

Average = 73.39dBuV/m -21.94dB(Duty Cycle) = 51.45dBuV/m at 3m. Limit is 54dBuV/m at 3m.

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EQUIPMENT: 480i Cordless Base Station

Set-up photo:

Base



FCC PART 15, SUBPART C FREQUENCY HOPPING TRANSMITTERS PROJECT NO.: 5W45697, issue 2

EQUIPMENT: 480i Cordless Base Station

Handset



Section 10. Block Diagrams

Test Site For Radiated Emissions



Conducted Emissions



Section 11. Test Equipment List

EQUIPMENT	MANUFACTURE	MODEL	SERIAL	LAST	NEXT
-	R			CAL.	CAL.
Spectrum Analyzer	Rohde & Schwarz	FSP	FA001920	Mar 22/05	Mar 22/06
Spectrum Analyzer	Hewlett-Packard	8566B	FA001309	May 18/05	May 18/06
Spectrum Analyzer Display	Hewlett-Packard	85662A	FA001309	May 18/05	May 18/06
0.1 – 1300 MHz Amplifier	Hewlett Packard	8447D	FA001909	Jan. 13/05	Jan. 13/06
1.0 – 2.0 GHz Amplifier	JCA	12-400	FA001498	June 18/04	June 18/05
2.0 – 4.0 GHz Amplifier	JCA	24-600	FA001496	June 18/04	June 18/05
4.0 – 8.0 GHz Amplifier	JCA	48-600	FA001497	June 18/04	June 18/05
5.0 – 18.0 GHz Amplifier	NARDA	DWT-186N23U40	FA001409	COU	COU
18.0 – 26.0 GHz Amplifier	Narda	BBS-1826N612	FA001550	COU	COU
Biconical Antenna	EMCO	3109	FA000904	Aug. 03/04	Aug. 03/05
Horn Antenna #1	EMCO	3115	FA000649	Dec. 22/04	Dec. 22/05
Log Periodic Antenna	EMCO	LPA-25	FA000477	Aug. 26/04	Aug. 26/05
LISN	EMCO	4825/2	FA001545	Jan. 13/05	Jan. 13/06
LISN	Tegam	95300-50	FA000986	Jan. 20/05	Jan. 20/06
LISN	Tegam	95300-50	FA000987	Jan. 20/05	Jan. 20/06
Transient Limiter	Hewlett-Packard	1194 7A	FA000975	May 25/05	May 25/06