

Out of Band Harmonics Data

Northwest EMC, Inc.

Equipment Tested: Falcon 335 w/ internal patch
Serial Number:
Manufacturer: Percon
Job Number: PERC0011
Test Date: 05-24-1999
Tested By: Jennifer Hewitt, TE04
Test Distance: 3 meters.
Comments: Falcon 335 w/ internal Toko patch antenna
 Low, Mid & High Levels

FCC Class B (3 Meter Limit)

Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Horizontal Vertical	Preamp Gain (dB)	Cable Loss (dB)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Table Azimuth (degree)	Antenna Height (meters)	Compared (To Limit) (dB)
7387.000	42.8	PK High, Channel 11	37.9	VHRN	33.1	5.3	52.9	54.0	0.0	1.0	-1.1
7387.000	31.5	AV High, Channel 11	37.9	VHRN	33.1	5.3	41.6	54.0	0.0	1.0	-12.4
4924.000	39.6	AV High, Channel 11	35.3	VHRN	35.0	4.5	44.4	54.0	330.0	1.0	-9.6
4924.000	41.2	PK High, Channel 11	35.3	HHRN	35.0	4.5	46.0	54.0	90.0	1.0	-8.0
4924.000	37.7	AV High, Channel 11	35.3	HHRN	35.0	4.5	42.5	54.0	90.0	1.0	-11.5
4924.000	43.8	PK High, Channel 11	35.3	VHRN	35.0	4.5	48.6	54.0	330.0	1.0	-5.4
7387.000	42.2	PK High, Channel 11	37.9	HHRN	33.1	5.3	52.3	54.0	90.0	1.0	-1.7
7387.000	31.8	AV High, Channel 11	37.9	HHRN	33.1	5.3	41.9	54.0	90.0	1.0	-12.1
9850.000	42.0	PK High, Channel 11	38.9	VHRN	34.6	6.0	52.3	54.0	0.0	1.0	-1.7
9850.000	31.4	AV High, Channel 11	38.9	HHRN	34.6	6.0	41.7	54.0	90.0	1.0	-12.3
9850.000	41.2	PK High, Channel 11	38.9	HHRN	34.6	6.0	51.5	54.0	90.0	1.0	-2.5
9850.000	31.1	AV High, Channel 11	38.9	VHRN	34.6	6.0	41.4	54.0	0.0	1.0	-12.6

Jennifer Hewitt
Signature

Northwest EMC, Inc.

Version 98.3, April. 1999
Margin Sort

Equipment Tested: LXE w/ Cushcraft Antenna

Serial Number:

Manufacturer: Percon

Job Number: PERC0012

Test Date: 06-04-1999

Tested By: Dan Haas, TE04

Test Distance: 3 meters.

Comments: Low, Mid, and High XMIT frequencies. New Lucent antenna cable.

Run #3. New Cushcraft antenna w/ new Lucent Card (S/N 99UT01333812)

FCC Class B (3 Meter Limit)

Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Horizontal Vertical	Preamp Gain (dB)	Cable Loss (dB)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Table Azimuth (degree)	Antenna Height (meters)	Compared (To Limit) (dB)
4864.000	48.0 X-mit Mid.	PK	35.1	HHRN	35.0	4.4	52.5	54.0	180.0	1.5	-1.5
4864.000	47.7 X-mit Mid.	PK	35.1	VHRN	35.0	4.4	52.2	54.0	50.0	1.4	-1.8
4824.000	47.6 X-mit Low	PK	35.0	HHRN	35.0	4.4	52.0	54.0	180.0	1.5	-2.0
4824.000	47.2 X-mit Low	PK	35.0	VHRN	35.0	4.4	51.6	54.0	90.0	1.4	-2.4
4924.000	46.8 X-mit High	PK	35.3	VHRN	35.0	4.5	51.6	54.0	95.0	1.4	-2.4
4924.000	46.7 X-mit High	PK	35.3	HHRN	35.0	4.5	51.5	54.0	100.0	1.4	-2.5
7387.000	36.8 X-mit High	AV	37.9	HHRN	33.1	5.3	46.9	54.0	135.0	1.5	-7.1
4864.000	41.4 X-mit Mid.	AV	35.1	VHRN	35.0	4.4	45.9	54.0	50.0	1.4	-8.1
4824.000	41.3 X-mit Low	AV	35.0	HHRN	35.0	4.4	45.7	54.0	180.0	1.5	-8.3
7387.000	35.5 X-mit High	AV	37.9	VHRN	33.1	5.3	45.6	54.0	250.0	1.1	-8.4
4824.000	40.9 X-mit Low	AV	35.0	VHRN	35.0	4.4	45.3	54.0	90.0	1.4	-8.7
4864.000	40.7 X-mit Mid.	AV	35.1	HHRN	35.0	4.4	45.2	54.0	180.0	1.5	-8.8

SignatureTemperature 70F 40% Humidity
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Northwest EMC, Inc.Version 5.2, Jan. 1998
Margin Sort

Equipment Tested: Falcon 325 w/ Lucent Waveline
Serial Number: F299063020
Manufacturer: Percon, Inc.
Job Number: PERC0010
Test Date: 05-03-1999
Tested By: Mark Daley, TE03
Test Distance: 3 meters.
Comments: Hubert & Suhner 9090.16.0001 Antenna
 Run #4

FCC Class B (3 Meter Limit)

Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor	Antenna Horizontal (dB/m)	Antenna Vertical	Preamp Gain (dB)	Cable Loss (dB)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Table Azimuth (degree)	Antenna Height (meters)	Compared (To Limit) (dB)
7235.850 Low frequency	47.3	PK	37.1	HHRN	32.9	4.6	56.1	54.0	330.0	1.7	2.1	
9847.950 High frequency	45.3	PK	39.4	HHRN	34.6	5.9	56.0	54.0	0.0	1.0	2.0	
9647.850 Low frequency	44.7	PK	39.4	HHRN	34.7	5.8	55.2	54.0	0.0	1.0	1.2	
9647.850 Low frequency	44.6	PK	39.4	VHRN	34.7	5.8	55.1	54.0	0.0	1.0	1.1	
9847.950 High frequency	44.3	PK	39.4	VHRN	34.6	5.9	55.0	54.0	0.0	1.0	1.0	
4873.988 Mid frequency	51.8	PK	34.7	HHRN	35.0	3.0	54.5	54.0	270.0	1.0	0.5	
9747.950 Mid frequency	43.8	PK	39.4	HHRN	34.7	5.9	54.4	54.0	0.0	1.0	0.4	
9747.950 Mid frequency	43.8	PK	39.4	VHRN	34.7	5.9	54.4	54.0	0.0	1.0	0.4	
4873.988 Mid frequency	50.3	PK	34.7	VHRN	35.0	3.0	53.0	54.0	270.0	1.0	-1.0	
4923.950 High frequency	49.6	PK	34.8	HHRN	35.0	3.0	52.4	54.0	315.0	1.0	-1.6	
4823.963 Low frequency	49.4	PK	34.6	VHRN	35.0	3.0	52.0	54.0	270.0	1.4	-2.0	
7310.950 Mid frequency	42.4	AV	37.3	HHRN	33.0	4.6	51.3	54.0	315.0	1.8	-2.7	

Temperature 71F 40% Humidity

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Run #4

FCC Class B (3 Meter Limit)

Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Horizontal Vertical	Preamp Gain (dB)	Cable Loss (dB)	Adjusted Level (dBuV/m)	Spec Limit (dBuV/m)	Table Azimuth (degree)	Antenna Height (meters)	Compared (To Limit) (dB)
7385.950 High frequency	41.6	AV	37.5	HHRN	33.1	4.7	50.7	54.0	180.0	1.8	-3.3
4823.963 Low frequency	48.1	PK	34.6	HHRN	35.0	3.0	50.7	54.0	110.0	1.0	-3.3
7385.950 High frequency	40.4	AV	37.5	VHRN	33.1	4.7	49.5	54.0	270.0	1.6	-4.5
4923.950 High frequency	45.0	AV	34.8	HHRN	35.0	3.0	47.8	54.0	315.0	1.0	-6.2
12059.850 Low frequency	33.0	AV	40.8	VHRN	33.6	7.4	47.7	54.0	0.0	1.0	-6.3
12059.850 Low frequency	33.0	AV	40.8	HHRN	33.6	7.4	47.6	54.0	0.0	1.0	-6.4
4923.950 High frequency	44.5	AV	34.8	VHRN	35.0	3.0	47.3	54.0	270.0	1.5	-6.7
4873.988 Mid frequency	44.3	AV	34.7	HHRN	35.0	3.0	47.0	54.0	270.0	1.0	-7.0
12309.950 High frequency	32.5	AV	40.6	HHRN	33.6	7.5	47.0	54.0	0.0	1.0	-7.0
12184.950 Mid frequency	32.3	AV	40.7	VHRN	33.6	7.5	46.9	54.0	0.0	1.0	-7.1
12184.950 Mid frequency	32.2	AV	40.7	HHRN	33.6	7.5	46.8	54.0	0.0	1.0	-7.2
12309.950 High frequency	32.3	AV	40.6	VHRN	33.6	7.5	46.8	54.0	0.0	1.0	-7.2

Temperature 71F 40% Humidity

