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Test Report: 101189-1TRFWL

Applicant: DragonWave Inc.
600-411 Legget Drive
Ottawa, Ontario
K2K 3C9

Apparatus: Horizon Compact CUSP24UFC

FCC ID: QB8HC-24UL

In Accordance With: FCC Part 15 Subpart C, 15.249
Operation in the 902-928MHz, 2400 - 2483.5 MHz,
5725-5875MHz and 24.0-24.25 GHz

Tested By: Nemko Canada Inc.
303 River Road
Ottawa, Ontario
K1V 1H2

Authorized By:

A handwritten signature in blue ink, appearing to read 'Heng Lin'.

Heng Lin EMC/Wireless Specialist

Date: February 21, 2008

Total Number of Pages: 31

Report Summary

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart C. Radiated tests were conducted in 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.

The assessment summary is as follows:

Apparatus Assessed:	Horizon Compact CUSP24UFC
Specification:	FCC Part 15 Subpart C, 15.249
Compliance Status:	Complies
Exclusions:	None
Non-compliances:	None
Report Release History:	Original Release

Author: Jason Nixon, Wireless/Telecom Specialist

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025.

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TABLE OF CONTENTS

Report Summary.....	2
Section 1 : Equipment Under Test.....	4
1.1 Product Identification	4
1.2 Samples Submitted for Assessment.....	4
1.3 Theory of Operation	4
1.4 Technical Specifications of the EUT	5
1.5 Block Diagram of the EUT.....	5
Section 2 : Test Conditions.....	6
2.1 Specifications	6
2.2 Deviations From Laboratory Test Procedures	6
2.3 Test Environment	6
2.4 Measurement Uncertainty.....	6
2.5 Test Equipment.....	7
Section 3 : Observations	8
3.1 Modifications Performed During Assessment	8
3.2 Record Of Technical Judgements	8
3.3 EUT Parameters Affecting Compliance	8
3.4 Test Deleted.....	8
3.5 Additional Observations.....	8
Section 4 : Results Summary	9
4.1 FCC Part 15 Subpart C : Test Results	10
Appendix A : Test Results.....	11
Clause 15.207(a) Powerline Conducted Emissions	11
Clause 15.209(a) Radiated Emissions within Restricted Bands	14
Clause 15.215(c) 20dB Bandwidth.....	15
Clause 15.249(b) Fixed Point-to-Point operation in the 24.0-24.25 GHz Band	21
Clause 15.249(d) Spurious emissions (except Harmonics).....	23
Appendix B : Setup Photographs	28
Appendix C : Block Diagram of Test Setups.....	31

Section 1 : Equipment Under Test

1.1 Product Identification

The Equipment Under Test was identified as follows:

Horizon Compact CUSP24UFC

1.2 Samples Submitted for Assessment

The following samples of the apparatus have been submitted for type assessment:

Sample No.	Description	Serial No.
1	12 inch Andrews VHLP1-26DW Antenna (DragonWave P/N: 74-000116-01)	06DESA0118904
2	24 inch Andrews VHLP2-26DW Antenna (DragonWave P/N: 74-000116-02)	None
3	30 inch Andrews VHLP2.5-26DW Antenna (DragonWave P/N: 74-000068-06)	07DESA0897040
4	Horizon Compact radio (M/N: CUSP24UFC)	24UL004
5	Power injector (PoE)/Lightning arrestor (P/N: 60-000355-01)	DW4A0131
6	AC Adapter (M/N: TR100A48023E13)	100480-008641

The first samples were received on: September 20, 2007

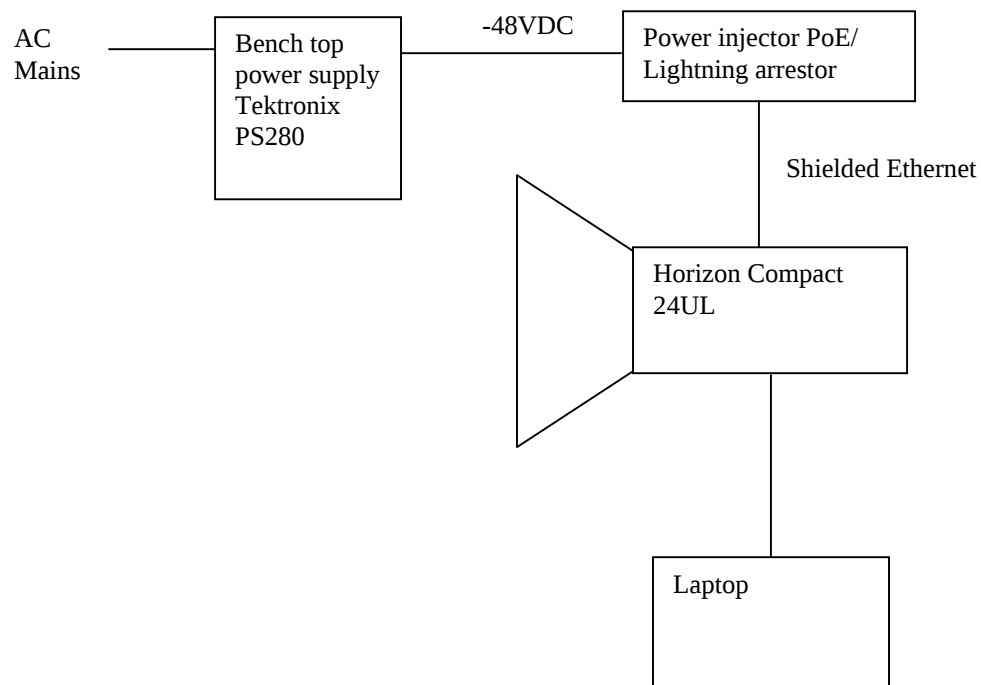
1.3 Theory of Operation

The EUT is a multi-data rate, 40MHz bandwidth, Point-to-point radio system.

1.4 Technical Specifications of the EUT

Operating Frequency:	24.0785GHz – 24.2215GHz split into 4 channels 24.0785GHz, 24.126167GHz, 24.173833GHz and 24.2215GHz
Emission Designator	D7W
Modulation:	QPSK, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Antenna Data:	12 inch antenna/36.2dBi 24 inch antenna/40.8dBi 30 inch antenna/43.7dBi
Antenna Connector:	Clip Mount
Power Source:	-48VDC PoE

1.5 Block Diagram of the EUT



Section 2 : Test Conditions

2.1 Specifications

The apparatus was assessed against the following specifications:

FCC Part 15 Subpart C, 15.249

Operation in the 902-928MHz, 2400 - 2483.5 MHz, 5725-5875MHz
and 24.0-24.25 GHz bands

2.2 Deviations From Laboratory Test Procedures

No deviations were made from laboratory test procedures.

2.3 Test Environment

All tests were performed under the following environmental conditions:

Temperature range	:	15 – 30 °C
Humidity range	:	20 - 75 %
Pressure range	:	86 - 106 kPa
Power supply range	:	+/- 5% of rated voltages

2.4 Measurement Uncertainty

Nemko Canada measurement uncertainty has been calculated using guidance of UKAS LAB 34:2003 and TIA-603-B Nov 7, 2002. All calculations have been performed to provide a confidence level of 95% and can be found in Nemko Canada document MU-003.

2.5 Test Equipment

Equipment	Manufacturer	Model No.	Asset/Serial No.	Next Cal.
Spectrum Analyzer	Rohde & Schwarz	FSU46	FA001877	Jan 23/09
Power Meter	HP	E4418B	FA001413	Jun 12/08
Power Sensor	HP	8487A	FA001908	Jun 12/08
High Pass Filter	K&L	1.7GHz	FA001434	COU
High Pass Filter	K&L	3.9GHz	FA001340	COU
Mixer/Antenna (40-60GHz)	Olsen	M19HWA	FA001523	VOU
Mixer/Antenna (60-90GHz)	Olsen	M12HWA	FA001524	VOU
Mixer/Antenna (90-140GHz)	Olsen	M08HWA	FA001525	VOU
Harmonic Generator	Olsen	40200WGS	FA001546	VOU
Signal Generator	Rohde & Schwarz	SMR40	FA001879	Aug 8/08
Frequency Counter	HP	5352B	FA001915	Dec 3/08
Temperature Chamber	Thermotron	SM-16C	FA001030	NCR
Multimeter	Fluke	16	FA001831	Jan 14/09
EMI 3m Test Chamber	TDK	SAC-3	FA002047	May 19/08
Bilog	Sunol	JB3	FA002108	Jan. 21/09
Biconical	Sunol	BC2	FA002078	July 25/08
Log Periodic Antenna	Sunol	LP5	FA002077	July 25/08
Flush Mount Turntable	Sunol	FM2022	FA002082	NCR
Controller	Sunol	SC104V	FA002060	NCR
Mast	Sunol	TLT2	FA002061	NCR
LISN	Rohde & Schwarz	ENV216	FA002023	Sept. 04/08
Receiver/Spectrum Analyzer	Rohde & Schwarz	ESU 26	FA002043	Dec. 07/08
International Power Supply	California Inst.	3001i	FA001021	Jan. 16/09
Horn Antenna #1	EMCO	3115	FA000649	Feb 13/09
18.0 – 40.0GHz Horn Antenna	EMCO	3116	FA001847	May 9/08
1.0 – 2.0 GHz Amplifier	JCA	12-400	FA001498	Aug. 21/08
2.0 – 4.0 GHz Amplifier	JCA	24-600	FA001496	Aug. 21/08
4.0 – 8.0 GHz Amplifier	JCA	48-600	FA001497	Aug. 21/08
5.0 – 18.0 GHz Amplifier	NARDA	DWT-186N23U40	FA001409	COU
18.0 – 26.0 GHz Amplifier	NARDA	BBS-1826N612	FA001550	COU
26 – 40.0 GHz Amplifier	NARDA	DBL-2640N610	FA001556	COU

COU – Calibrate on Use

VOU – Verified on Use

NCR – No Calibration Required

Section 3 : Observations

3.1 Modifications Performed During Assessment

No modifications were performed during assessment.

3.2 Record Of Technical Judgements

No technical judgements were made during the assessment.

3.3 EUT Parameters Affecting Compliance

The user of the apparatus could not alter parameters that would affect compliance.

3.4 Test Deleted

No Tests were deleted from this assessment.

3.5 Additional Observations

There were no additional observations made during this assessment.

Section 4 : Results Summary

This section contains the following:

FCC Part 15 Subpart C : Test Results

The column headed 'Required' indicates whether the associated clauses were invoked for the apparatus under test. The following abbreviations are used:

- N No : not applicable / not relevant.
- Y Yes : Mandatory i.e. the apparatus shall conform to these tests.
- N/T Not Tested, mandatory but not assessed. (See section 3.4 Test deleted)

The results contained in this section are representative of the operation of the apparatus as originally submitted.

4.1 FCC Part 15 Subpart C : Test Results

Part 15	Test Description	Required	Result
15.31(e)	Variation of power supply	Y	PASS
15.207(a)	Powerline Conducted Emissions	Y	PASS
15.209(a)	Radiated Emissions within Restricted Bands	Y	PASS
15.215(c)	20dB Bandwidth	Y	PASS
15.249(a)	Radiated emissions not in Restricted Bands	Y	PASS
15.249(b)	Fixed Point-to-Point operation in the 24.0-24.25 GHz Band	Y	PASS
15.249(d)	Spurious emissions (except Harmonics)	Y	PASS

Notes:

Appendix A : Test Results

Clause 15.207(a) Powerline Conducted Emissions

Frequency of Conducted limit (dB μ V)		
Emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
* Decreases with the logarithm of the frequency.		

Test Conditions:

Sample Number:	4	Temperature (°C):	23
Date:	February 15, 2008	Humidity (%):	21
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	3m EMI Chamber

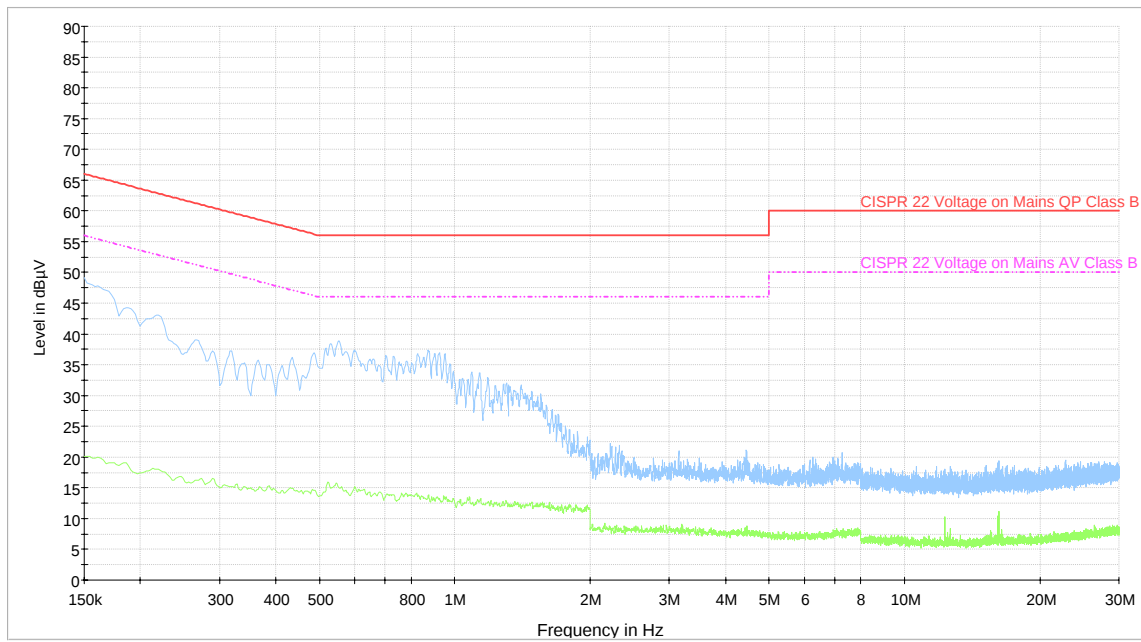
Test Results: See Attached Plots and Table.

Additional Observations:

Plots were obtained using a scanning receiver with IF bandwidth set to 9kHz Peak Detector and Average detector. Cable and LISN losses were included to show compliance. The Correction factor includes both cable loss and LISN loss.

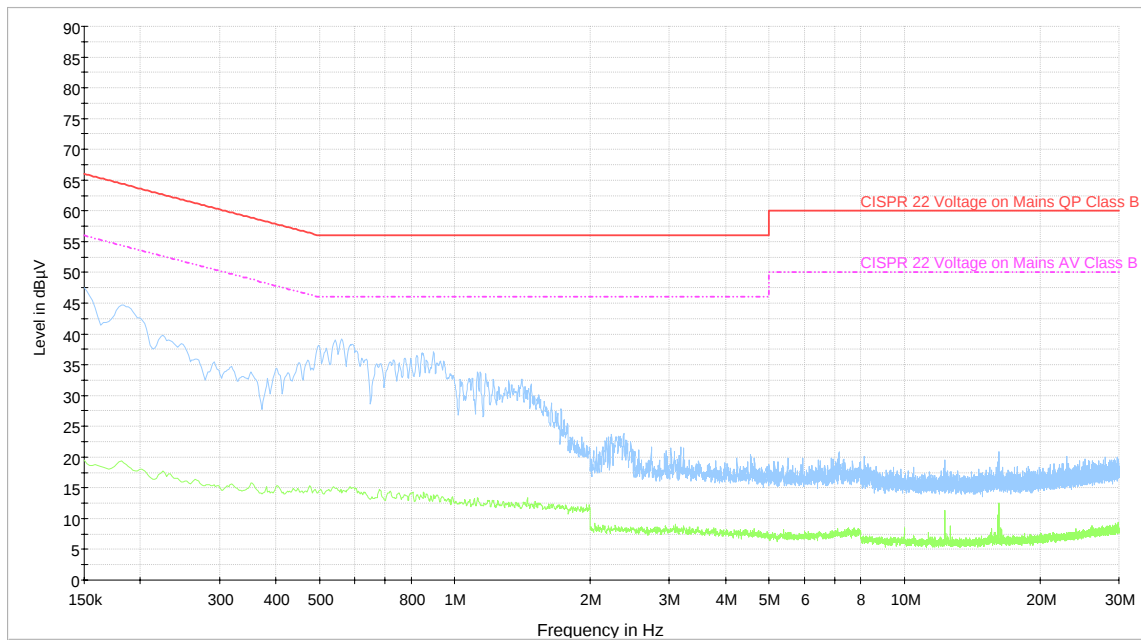
The EUT is not supplied with a power supply, therefore testing was completed with an off the shelf bench power supply, Tektronix PS280, Nemko Asset Number FA001528.

Phase Conductor



AC Powerline Conducted - Phase Conductor
 CISPR 22 Voltage on Mains QP Class B.LimitLine
 CISPR 22 Voltage on Mains AV Class B.LimitLine
 Peak Detector
 Average Detector

Neutral Conductor



AC Power line Conducted - Neutral Conductor
 CISPR 22 Voltage on Mains QP Class B.LimitLine
 CISPR 22 Voltage on Mains AV Class B.LimitLine
 Peak Detector
 Average Detector

Clause 15.209(a) Radiated Emissions within Restricted Bands

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	24000/F (kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Conditions:

Sample Number:	4	Temperature (°C):	23
Date:	February 12, 2008	Humidity (%):	12
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	Shielded Room

Test Results:

See Attached Table for Results

Additional Observations:

The Spectrum was searched from 30MHz to the 100GHz.

These results apply to emissions found in the Restricted bands defined in FCC Part 15 Subpart C, 15.205.

All emissions were measured using a Peak detector with 1MHz RBW/3MHz VBW and for average measurements a Peak Detector with 1MHz RBW/10Hz VBW was used.

Measurements were performed at 3 meters from 30MHz to 10GHz and at 1 meter above 10GHz. Emissions measured at 1 meter have a distance correction included in the correction value of $20\log(1/3) = -9.5\text{dB}$.

Frequency MHz	Emission dBμV/m	Bandwidth kHz	Antenna height cm	Polarity	Turntable position deg	Corr. dB	Margin dB	Limit dBμV/m
12039.26	57.67	1000.00	99.91	H	18.00	0.54	16.33	74.00
12039.26	55.42	1000.00	100.04	V	97.00	0.45	18.58	74.00
12039.26	53.16	1000.00	99.91	H	18.00	0.54	0.84	54.00
12039.26	51.51	1000.00	100.04	V	97.00	0.45	2.49	54.00

Clause 15.215(c) 20dB Bandwidth

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Test Conditions:

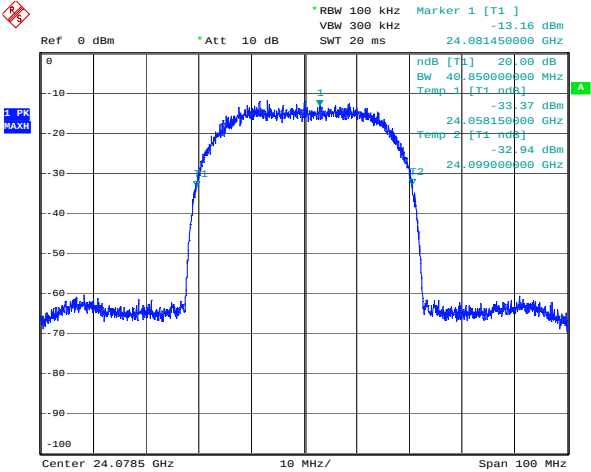
Sample Number:	4	Temperature (°C):	23
Date:	February 11, 2008	Humidity (%):	11
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	Wireless

Test Results: See Attached Plots.

20dB Bandwidth

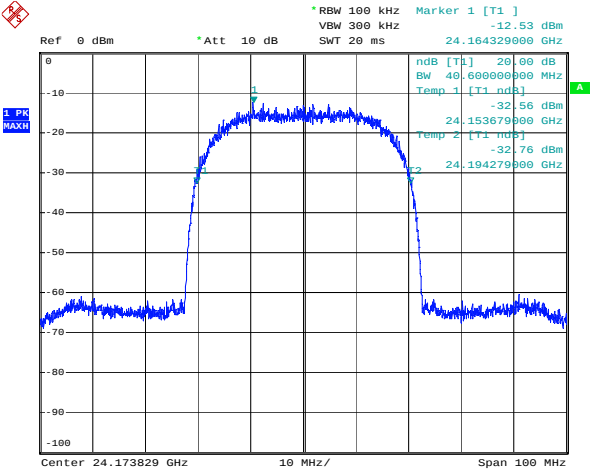
Modulation	Low Channel	Mid Channel	High Channel
QPSK	40.65MHz	40.60MHz	40.60MHz
16QAM	44.30MHz	44.25MHz	44.20MHz
32QAM	44.55MHz	44.00MHz	44.10MHz
64QAM	46.00MHz	45.90MHz	46.05MHz
128QAM	45.20MHz	45.65MHz	45.75MHz
256QAM	48.30MHz	48.50MHz	49.00MHz

QPSK – Low Channel



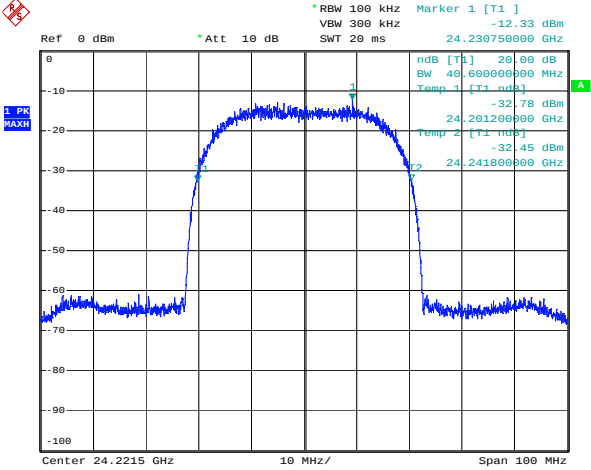
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QPSK – Mid Channel



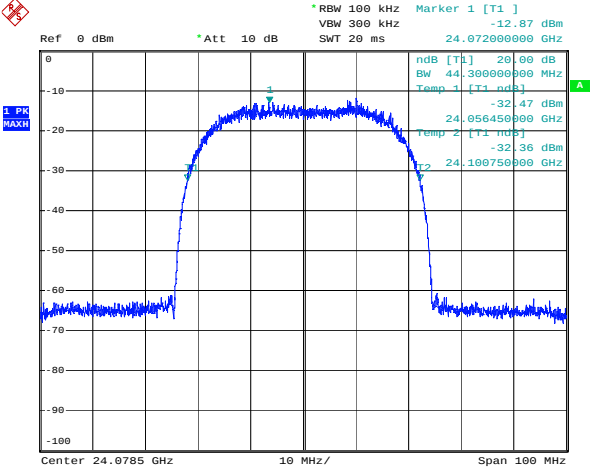
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QPSK – High Channel



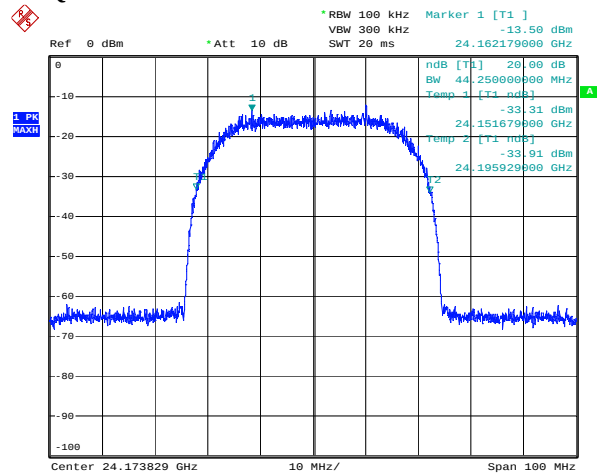
Date: 11.FEB.2008 13:15:51

16QAM – Low Channel

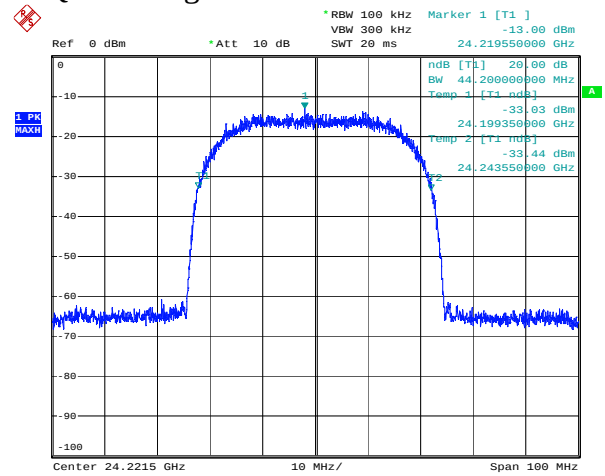


Date: 11.FEB.2008 14:32:15

16QAM – Mid Channel



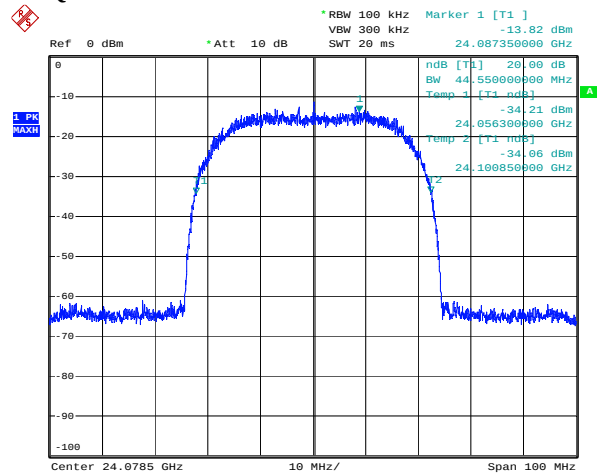
16QAM – High Channel



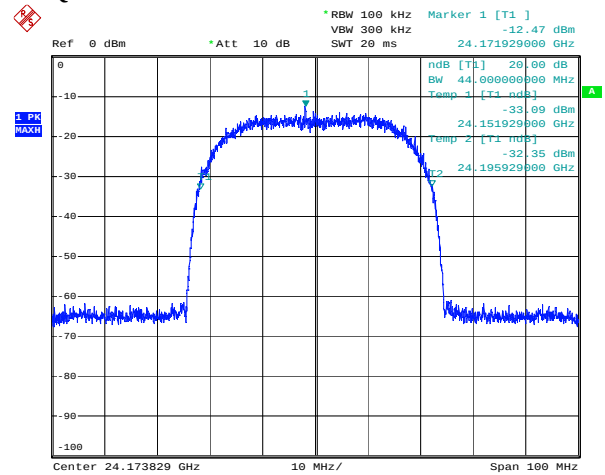
Date: 11.FEB.2008 14:31:17

Date: 11.FEB.2008 13:12:39

32QAM – Low Channel



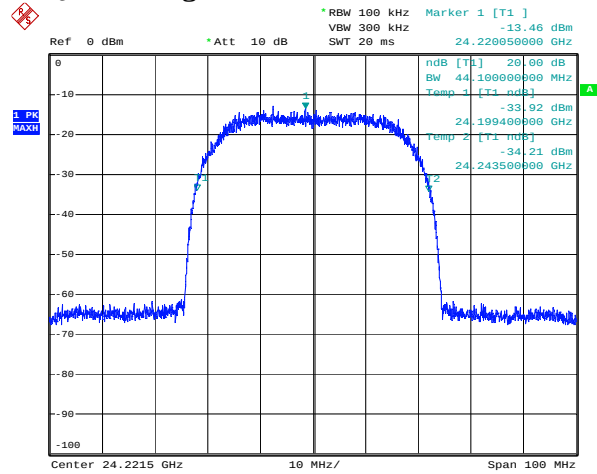
32QAM – Mid Channel



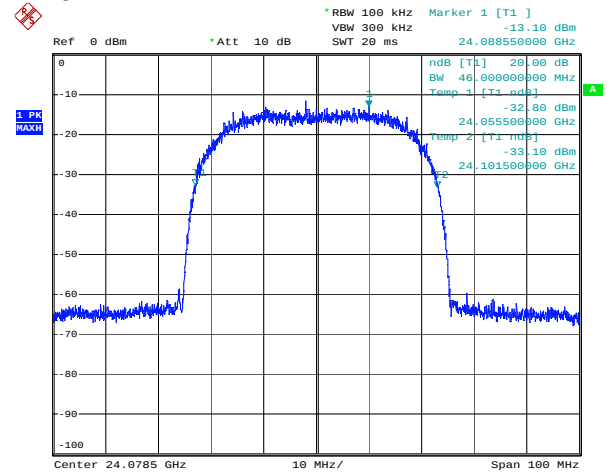
Date: 11.FEB.2008 14:21:14

Date: 11.FEB.2008 14:22:12

32QAM – High Channel



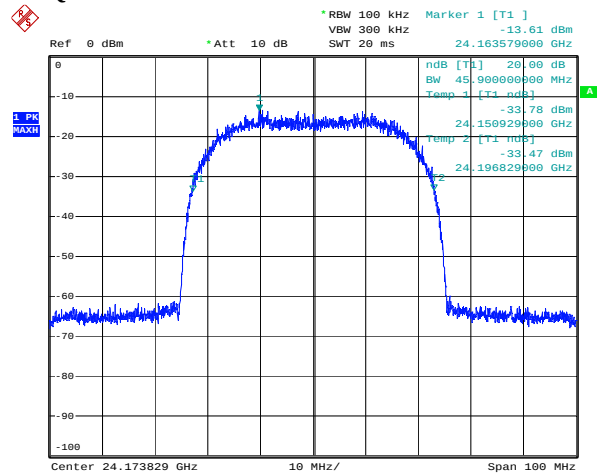
64QAM – Low Channel



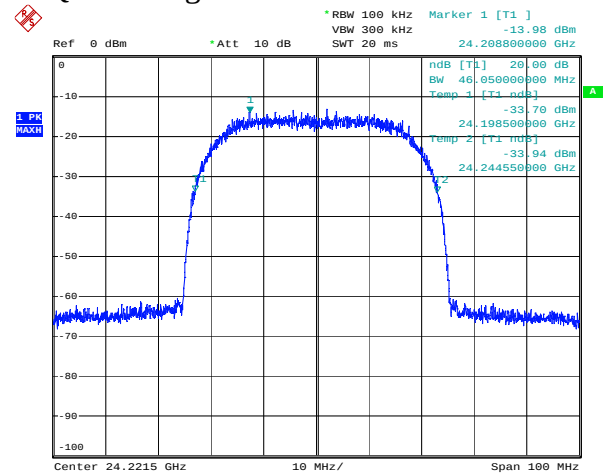
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Date: 11.FEB.2008 14:16:33

64QAM – Mid Channel



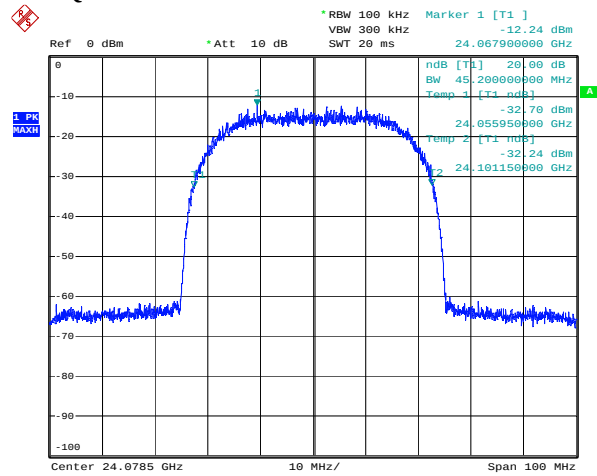
64QAM – High Channel



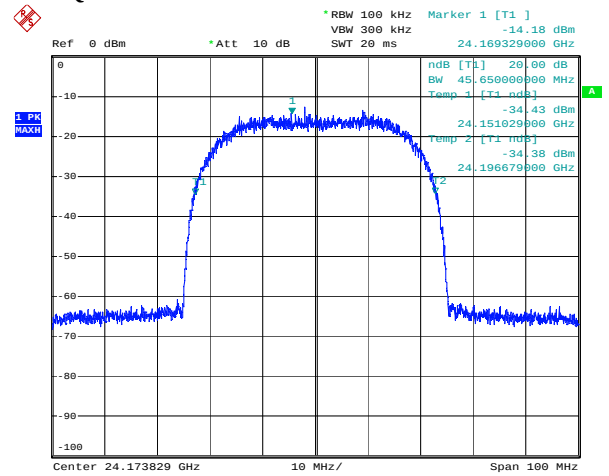
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Date: 11.FEB.2008 13:06:39

128QAM – Low Channel



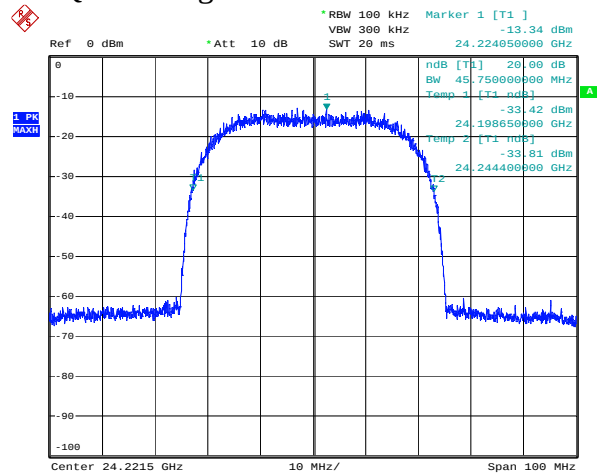
128QAM – Mid Channel



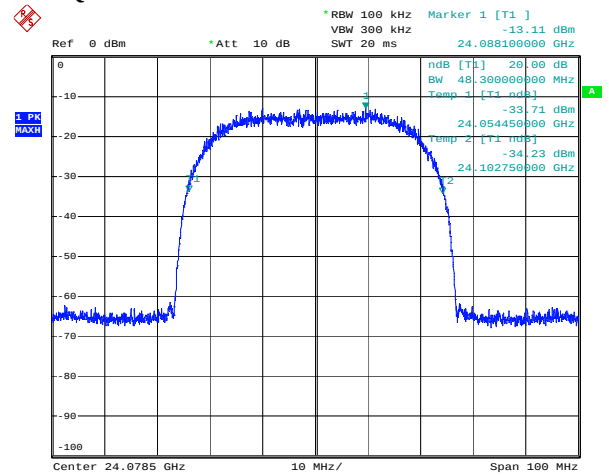
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Date: 11.FEB.2008 14:10:25

128QAM – High Channel



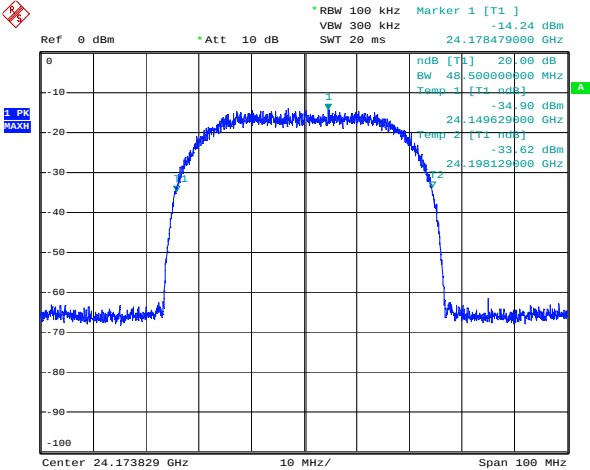
256QAM – Low Channel



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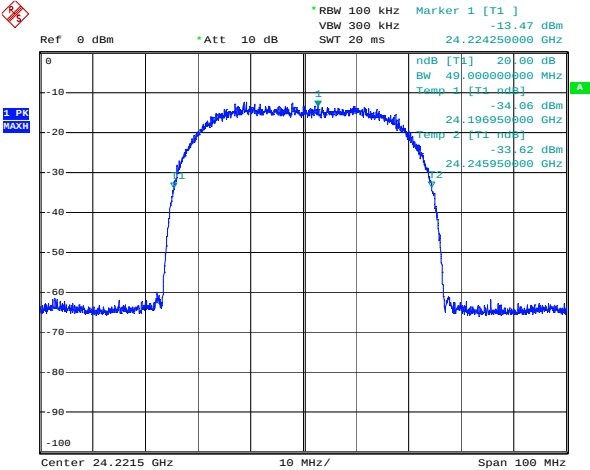
Date: 11.FEB.2008 14:07:04

256QAM – Mid Channel



Date: 11.FEB.2008 14:05:58

256QAM – High Channel



Date: 11.FEB.2008 12:58:51

Clause 15.249(b) Fixed Point-to-Point operation in the 24.0-24.25 GHz Band

Fixed, point-to-point operation as referred to in this paragraph shall be limited to systems employing a fixed transmitter transmitting to a fixed remote location. Point-to-multipoint systems, omnidirectional applications, and multiple co-located intentional radiators transmitting the same information are not allowed. Fixed, point-to-point operation is permitted in the 24.05-24.25 GHz band subject to the following conditions:

- (1) The field strength of emissions in this band shall not exceed 2500 millivolts/meter.
- (2) The frequency tolerance of the carrier signal shall be maintained within +/- 0.001% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary 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.
- (3) Antenna gain must be at least 33 dBi. Alternatively, the main lobe beamwidth must not exceed 3.5 degrees. The beamwidth limit shall apply to both the azimuth and elevation planes. At antenna gains over 33 dBi or beamwidths narrower than 3.5 degrees, power must be reduced to ensure that the field strength does not exceed 2500 millivolts/meter.

Test Conditions:

Sample Number:	4	Temperature (°C):	23
Date:	February 12, 2008	Humidity (%):	12
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	Shielded Room

Test Results:

All measurements were maximized along the antenna boresight using a peak detector with 1MHz RBW/3MHz VBW.

Final results include antenna factor (45.1dB) and cable loss (3.5dB) in the final measurements reported.

Measurements were performed in both Vertical and Horizontal polarizations and only the worst case are reported.

Harmonic emissions were searched up to 100GHz and no emissions were detected within 20dB below the limit.

The rated voltage was varied +/-15% and no deviation was detected in the fundamental field strength.

Measurements were performed at 3 meters from 30MHz to 10GHz and at 1 meter above 10GHz. Emissions measured at 1 meter have a distance correction included in the correction value of $20\log(1/3) = -9.5\text{dB}$.

Radiated Field Strength 12 inch Antenna

Modulation	Low Channel	Mid Channel	High Channel
QPSK	127.80dBuV/m	127.60dBuV/m	127.40dBuV/m
16QAM	127.90dBuV/m	127.70dBuV/m	127.60dBuV/m
32QAM	127.90dBuV/m	127.80dBuV/m	127.70dBuV/m
64QAM	127.10dBuV/m	126.60dBuV/m	126.10dBuV/m
128QAM	126.60dBuV/m	126.10dBuV/m	125.60dBuV/m
256QAM	126.10dBuV/m	125.9dBuV/m	125.40dBuV/m

Radiated Field Strength 24 inch Antenna

Modulation	Low Channel	Mid Channel	High Channel
QPSK	122.51dBuV/m	123.92dBuV/m	121.28dBuV/m
16QAM	122.06dBuV/m	120.36dBuV/m	119.85dBuV/m
32QAM	120.74dBuV/m	121.47dBuV/m	120.79dBuV/m
64QAM	120.19dBuV/m	119.32dBuV/m	118.99dBuV/m
128QAM	119.66dBuV/m	119.93dBuV/m	118.49dBuV/m
256QAM	119.47dBuV/m	119.10dBuV/m	118.76dBuV/m

Radiated Field Strength 30 inch Antenna

Modulation	Low Channel	Mid Channel	High Channel
QPSK	121.97dBuV/m	122.98dBuV/m	122.28dBuV/m
16QAM	119.58dBuV/m	119.89dBuV/m	119.82dBuV/m
32QAM	120.90dBuV/m	120.86dBuV/m	120.66dBuV/m
64QAM	120.50dBuV/m	119.89dBuV/m	119.69dBuV/m
128QAM	118.90dBuV/m	119.38dBuV/m	118.40dBuV/m
256QAM	118.31dBuV/m	118.31dBuV/m	117.77dBuV/m

Frequency Stability

Conditions	Frequency (Hz)	Offset (ppm)
+50°C, Nominal power	24174602171	0.156
+40°C, Nominal power	24174602840	0.184
+30°C, Nominal power	24174594062	-0.179
+20°C, +15% power	24174598361	-0.002
+20°C, Nominal power	24174598398	—
+20°C, -15% power	24174598404	0.000
+10°C, Nominal power	24174586100	-0.509
0°C, Nominal power	24174586598	-0.488
-10°C, Nominal power	24174598510	0.005
-20°C, Nominal power	24174606836	0.349

Limit = 0.001% which is 10ppm

Clause 15.249(d) Spurious emissions (except Harmonics)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Test Conditions:

Sample Number:	4	Temperature (°C):	23
Date:	February 15, 2008	Humidity (%):	21
Modification State:	0	Tester:	Jason Nixon
		Laboratory:	3m EMI Chamber

Test Results:

See Attached Table for Results

Additional Observations:

The Spectrum was searched from 30MHz to the 100GHz Harmonic. The emissions were evaluated for all antennas and only the worst case was reported.

All measurements were performed using a Quasi-Peak Detector with 120kHz RBW below 1GHz and a 1MHz RBW/VBW Peak Detector above 1GHz at a distance of 3 meters. Measurements above 10GHz were performed at 1 meter. Emissions measured at 1 meter have a distance correction included in the correction value of $20\log(1/3) = -9.5\text{dB}$.

The lowest fundamental field strength of the transmitter was 117.77dBuV/m @ 3 meters, therefore the emission limit for 50dBc is 67.77dBuV/m @ 3 meters.

Emissions below 1GHz

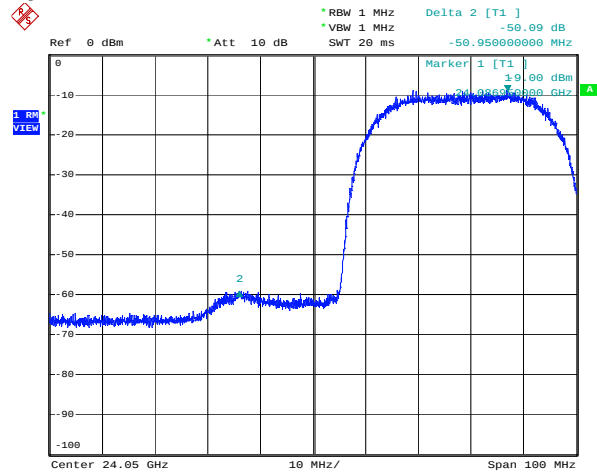
Frequency MHz	QuasiPeak dBμV/m	Bandwidth kHz	Antenna height cm	Polarity	Turntable position deg	Corr. dB	Margin dB	Limit dBμV/m
30.75	29.42	120.00	99.00	V	87.00	20.46	10.60	40.00
36.93	27.24	120.00	98.95	V	120.00	15.98	12.80	40.00
37.77	25.82	120.00	103.00	V	121.00	15.38	14.20	40.00
61.20	23.50	120.00	385.95	H	0.00	8.26	16.50	40.00
71.61	26.05	120.00	101.00	V	227.00	7.66	14.00	40.00
77.52	24.04	120.00	101.04	V	210.00	8.69	16.00	40.00
87.42	22.82	120.00	129.00	V	215.00	9.33	17.20	40.00
108.90	25.75	120.00	108.95	V	222.00	13.49	17.70	43.50
147.48	20.49	120.00	108.08	V	312.00	13.88	23.00	43.50
152.01	28.43	120.00	99.00	V	320.00	13.86	15.10	43.50
159.99	38.80	120.00	136.95	H	257.00	13.48	4.70	43.50
300.00	37.03	120.00	100.00	H	0.00	15.53	9.00	46.00
300.00	36.71	120.00	99.95	H	22.00	15.53	9.30	46.00
499.98	43.48	120.00	200.00	V	28.00	19.48	2.50	46.00
559.98	43.61	120.00	168.91	V	0.00	20.61	2.39	46.00
624.99	38.94	120.00	100.04	H	276.00	22.04	7.10	46.00
699.00	35.00	120.00	104.00	H	294.00	22.89	11.00	46.00
699.51	43.31	120.00	100.04	H	294.00	22.89	2.70	46.00
699.99	36.55	120.00	100.00	H	294.00	22.89	9.40	46.00
700.47	42.80	120.00	100.00	H	302.00	22.91	3.20	46.00
720.00	40.73	120.00	105.00	H	323.00	23.27	5.30	46.00
750.00	35.93	120.00	153.00	H	56.00	23.70	10.10	46.00
900.00	38.14	120.00	202.00	H	300.00	25.15	7.90	46.00
1000.00	37.69	120.00	237.00	H	322.00	26.69	8.31	46.00

Emissions above 1GHz

Frequency MHz	MaxPeak dBμV/m	Bandwidth kHz	Antenna height cm	Polarity	Turntable position deg	Corr. dB	Margin dB	Limit dBμV/m
1799.98	50.91	1000.00	100.08	V	0.00	-18.57	16.86	67.77
1799.99	52.82	1000.00	399.95	H	289.00	-18.51	14.95	67.77
5743.46	60.40	1000.00	125.26	V	9.00	-13.33	7.37	67.77
5743.46	59.41	1000.00	188.34	H	0.00	-13.38	8.36	67.77
6019.63	57.58	1000.00	400.00	H	249.00	-13.82	10.19	67.77
6019.63	55.58	1000.00	291.34	V	33.00	-13.73	12.19	67.77
34460.50	65.04	1000.00	100.00	V	0.0	18.2	2.73	67.77
34460.50	64.74	1000.00	100.00	H	0.0	17.9	3.03	67.77

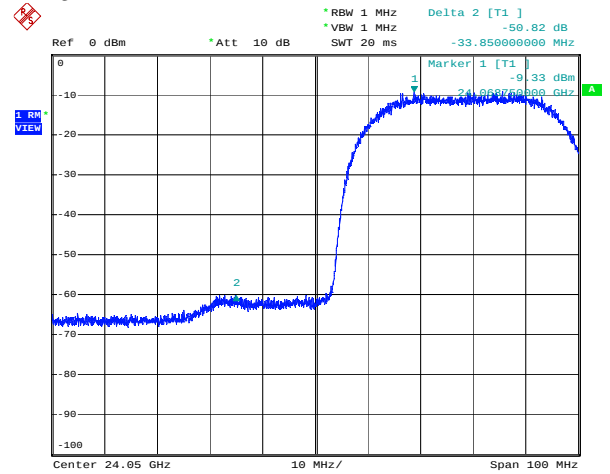
Note: Emission levels already include the correction value stated in the table.

Lower Bandedge:
QPSK



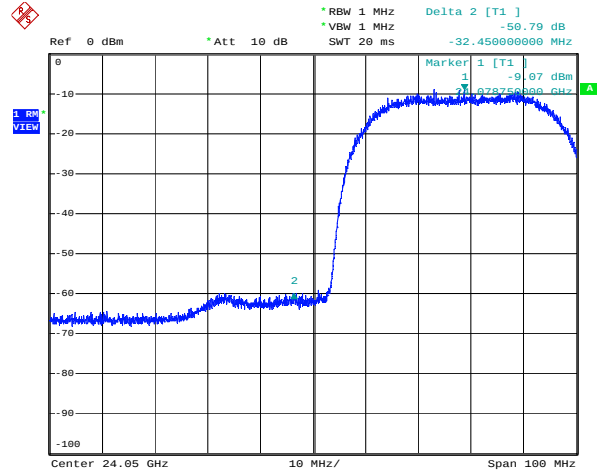
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16QAM



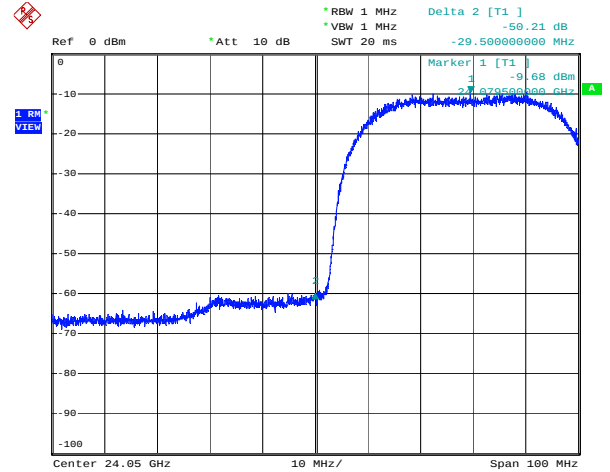
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32QAM



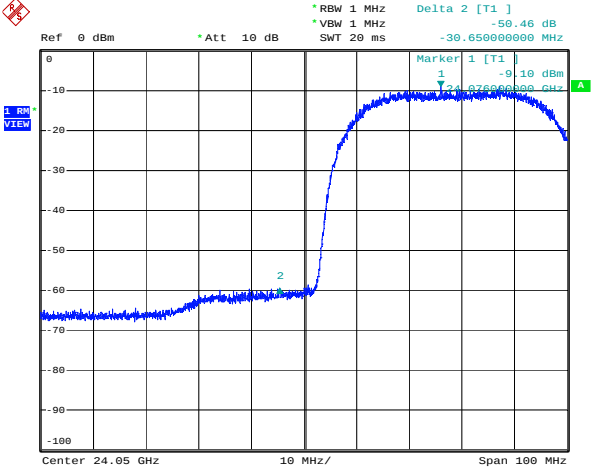
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64QAM



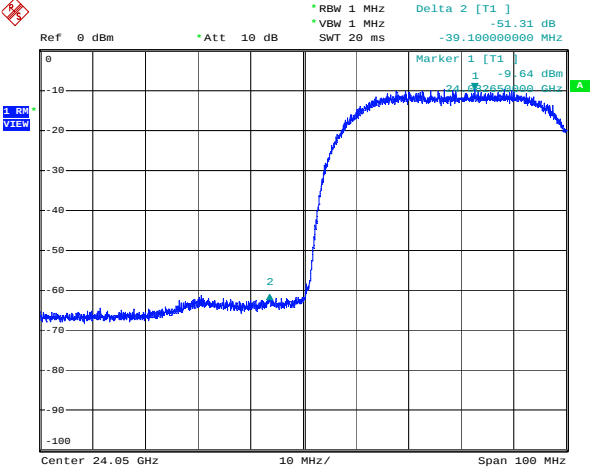
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128QAM



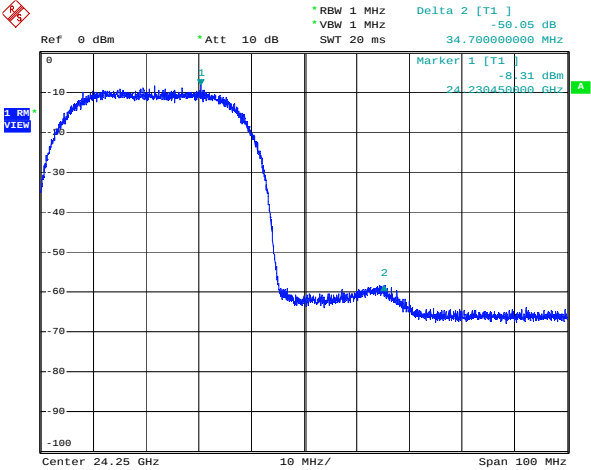
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256QAM



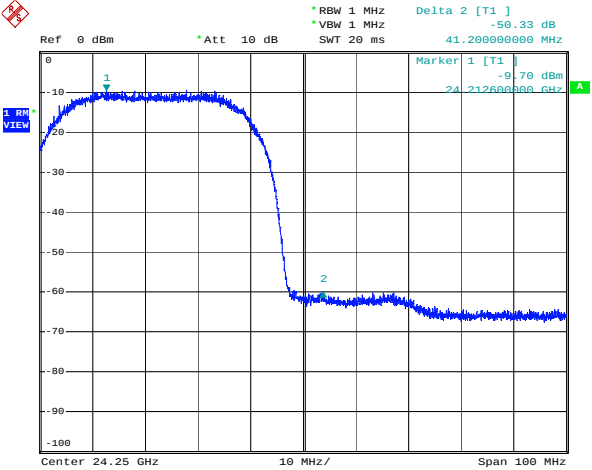
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Upper Bandedge:
QPSK



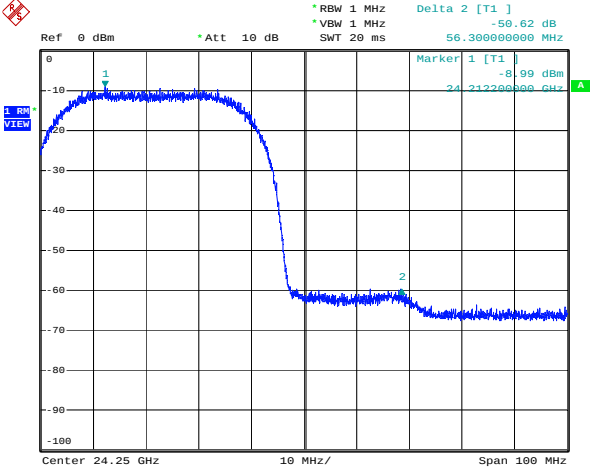
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16QAM



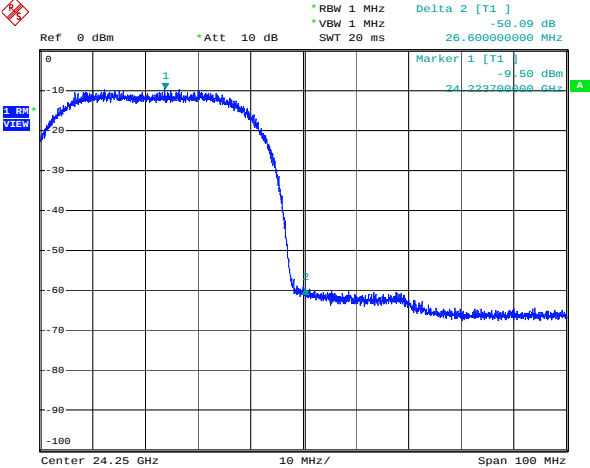
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32QAM



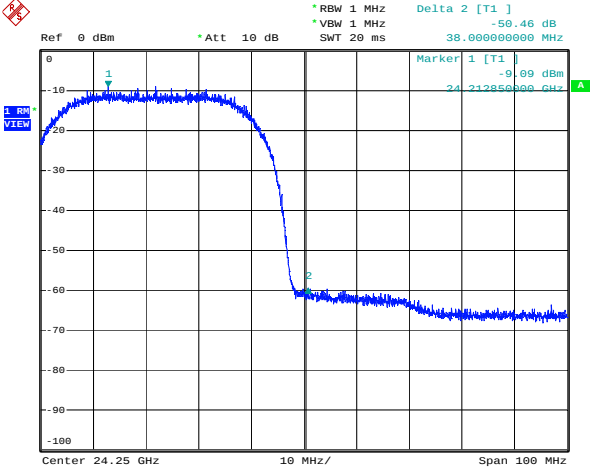
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64QAM



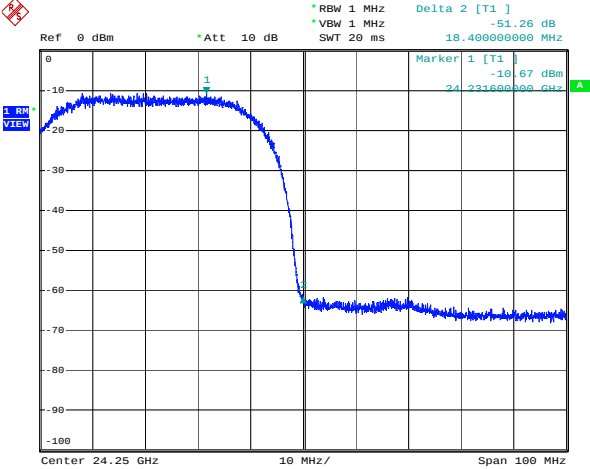
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128QAM



Date: 12.FEB.2008 08:32:23

256QAM



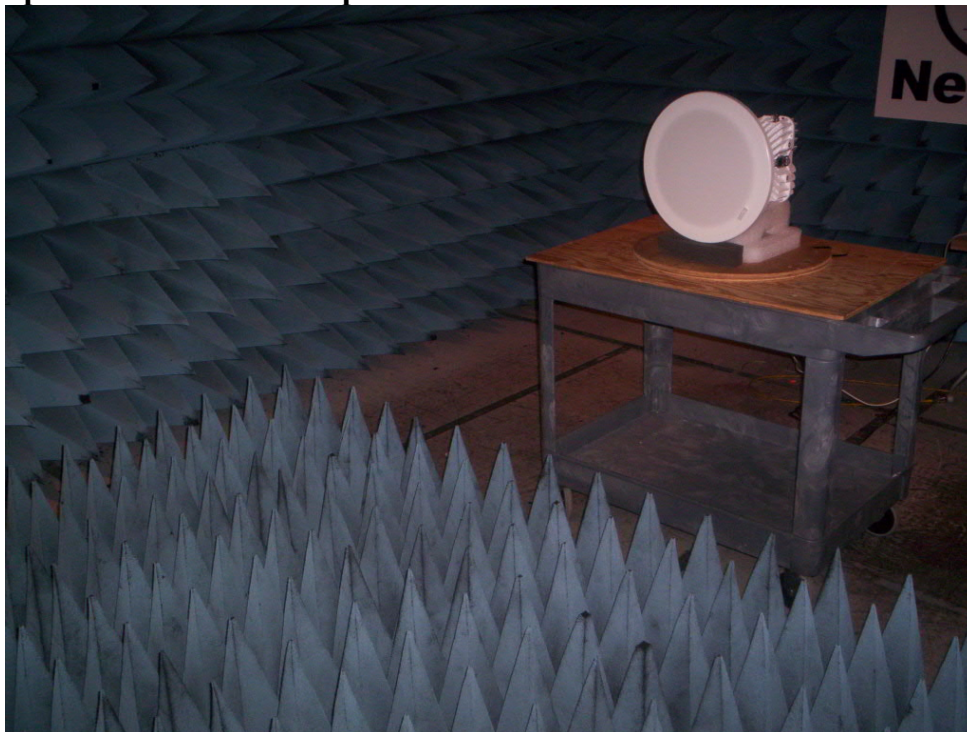
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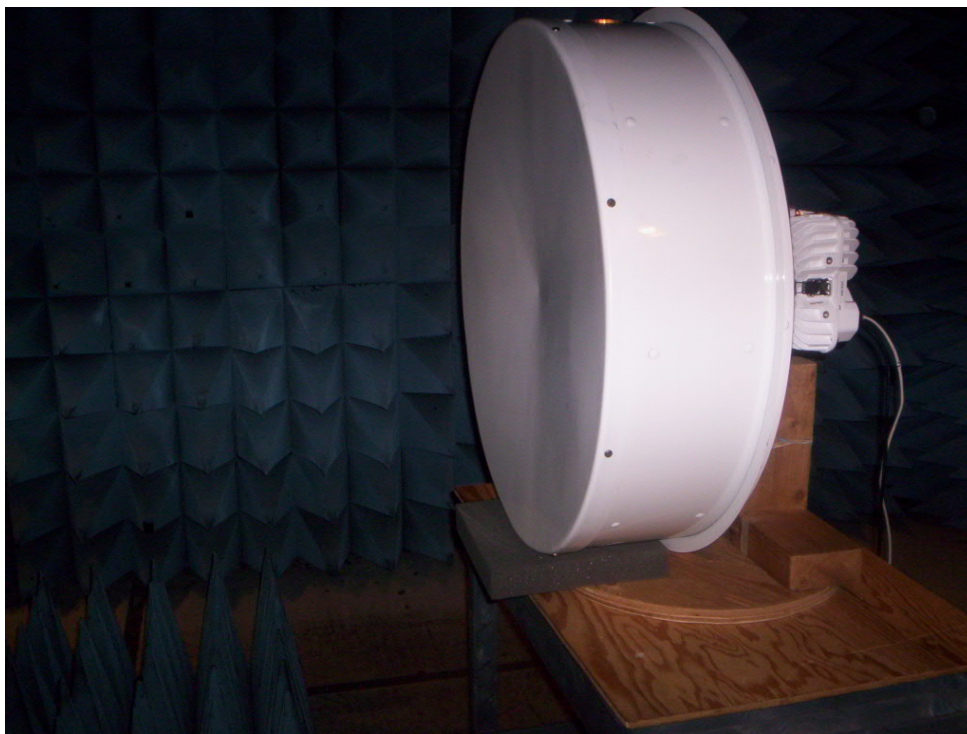
Appendix B : Setup Photographs

Conducted Emissions Setup:



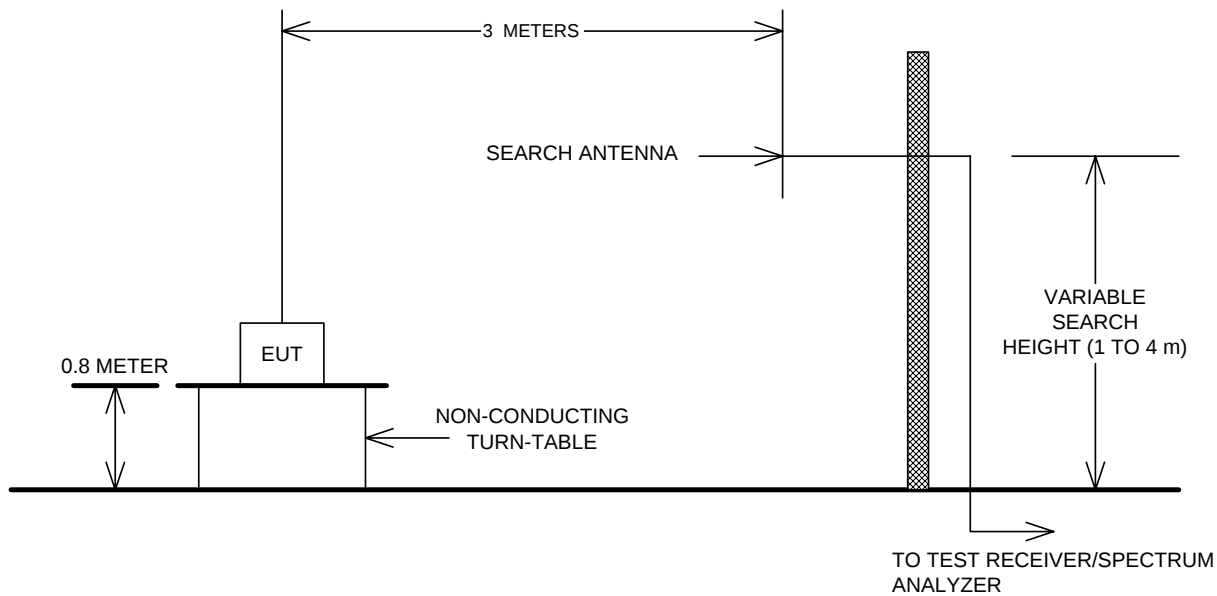
Spurious Emissions Setup:





Appendix C : Block Diagram of Test Setups

Test Site For Radiated Emissions



Conducted Emissions

