



Nemko

Test Report: 5W54150.2

Applicant: BelAir Networks Inc.,
603 March Road,
Ottawa, ON
K2K 2M5

Apparatus: BRM 3

FCC ID: RAR20001003

In Accordance With: FCC Part 15 Subpart E, 15.407
Unlicensed National Information Infrastructure
Devices

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

Authorized By: 
Sim Jagpal, General Manager

Date: January 16, 2006

Total Number of Pages: 106

Report Summary

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart E, 15.407. 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:	BRM 3
Specification:	FCC Part 15.407, Subpart E
Compliance Status:	Complies
Exclusions:	None
Non-compliances:	None
Report Release History:	Original Release

Author: Xu Jin, Wireless 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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Section 1 : Equipment Under Test

1.1 Product Identification

The Equipment Under Test was identified as follows:
BRM3

1.2 Samples Submitted for Assessment

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

Sample No.	Description	Serial No.
1	BRM3	K001362009
2	Digital board LMP	K001245162
3	H&S 23dBi Antenna	00445
4	15dBi Belair Patch Antenna	203-B
5	MaxRad omnidirectional Antenna 4dBi	MMO58004NF
6	MaxRad omnidirectional Antenna 10dBi	MMO58010NF

The first samples were received on: Oct.17, 2005

1.3 Technical Specifications of the EUT

Manufacturer:	BelAir Networks Inc.
Frequency Band	5250MHz-5350MHz
Operation Frequency	5265MHz-5330MHz
Rated Maximum Conducted Output Power*:	20dBm for 10dBi &4dBi Maxrad Antenna 15dBm for 15dBi Belair Patch Antenna 7dBm for 23dBi H&S Antenna
Emission Designator	20M9G1W
Modulation:	802.11 a
Antenna Data:	(1).Maxrad 10dBi Antenna (2).Maxrad 4dBi Antenna (3) 15dBi BelAir Patch Antenna (4) H&S 23dBi Antenna
Antenna Connector:	MCX

* Manufacture's rated power is average power measured using a wide band power meter with a thermocouple detector.

Section 2: Test Conditions

2.1 Specifications

The apparatus was assessed against the following specifications:

FCC Part 15 Subpart E, 15.407, Unlicensed National Information Infrastructure Devices

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 Test Equipment

Equipment	Manufacturer	Model No.	Asset/Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Rohde & Schwarz	FSP	FA001920	March 22/05	March 22/06
Spectrum Analyzer	Rohde & Schwarz	FSU	FA001877	May 17/05	May 17/06
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
Biconical (1) Antenna	EMCO	3109	FA000805	April 22/05	April 22/06
Log Periodic Antenna #1	EMCO	LPA-25	FA000477	Aug. 29/05	Aug. 29/06
Horn Antenna #1	EMCO	3115	FA000649	Dec. 22/04	Dec. 22/05
18.0 – 40.0GHz Horn Antenna	EMCO	3116	FA001847	April 25/05	April 25/06
1.0 – 2.0 GHz Amplifier	JCA	12-400	FA001498	July 14/05	July 14/06
2.0 – 4.0 GHz Amplifier	JCA	24-600	FA001496	July 14/05	July 14/06
4.0 – 8.0 GHz Amplifier	JCA	48-600	FA001497	July 14/05	July 14/06
5.0 - 18GHz Amplifier	Narda	DWT-186N23U40	FA001409	COU	COU
18.0 – 26.0 GHz Amplifier	NARDA	BBS-1826N612	FA001550	COU	COU
26 – 40.0 GHz Amplifier	NARDA	DBL-2640N610	FA001556	COU	COU
Signal Generator	Rhode & Schwarz	SMR 40	FA001879	July 13/05	July 13/06
Power Meter	HP	4418B	FA001678	Mar 8/05	Mar 8/06
Power Probe	HP	8487A	FA001741	May 26/05	May 26/06
LISN	EMCO	4825/2	FA001545	Jan 13/05	Jan 13/06
Transient Limiter	Hewlett-Packard	1194 7A	FA000975	May 25/05	May 25/06
Climate Chamber	Thermotron	SM-16C	15649-S	COU	COU

* COU (Calibrate 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.

Section 4 : Results Summary

This section contains the following:

FCC Part 15.407, Subpart E: Test Result

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 E, 15.407 : Test Results

Section	Clause	Test Description	Required	Result
1	15.207(a)	Powerline Conducted Emissions	Y	PASS
2	15.403(i)	Emission Bandwidth	Y	PASS
3	15.407(a)(2)	Peak Conducted Transmit Output Power	Y	PASS
4	15.407(b)(2)	Spurious Emissions not within restricted bandwidth	Y	PASS
5	15.407(b)(7)	Spurious Emissions within restricted bandwidth	Y	PASS
6	15.407(a)(2)	Peak Power Spectral Density	Y	PASS
7	15.31(e)	Supply Voltage Variation	Y	PASS
8	15.407(a)(6)	Peak Excursion Measurement	Y	PASS
9	15.407(g)	Frequency Stability	Y	PASS

Appendix A: Test Results

Section 1. Power Line Conducted Emissions

Criteria: Clause 15.207(a)

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:

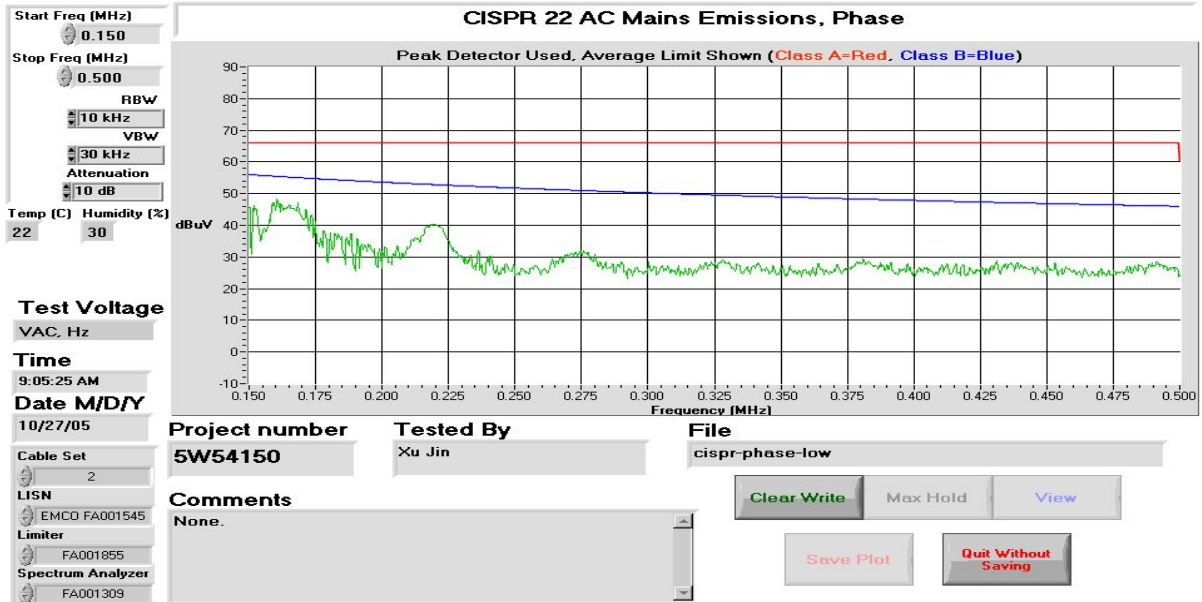
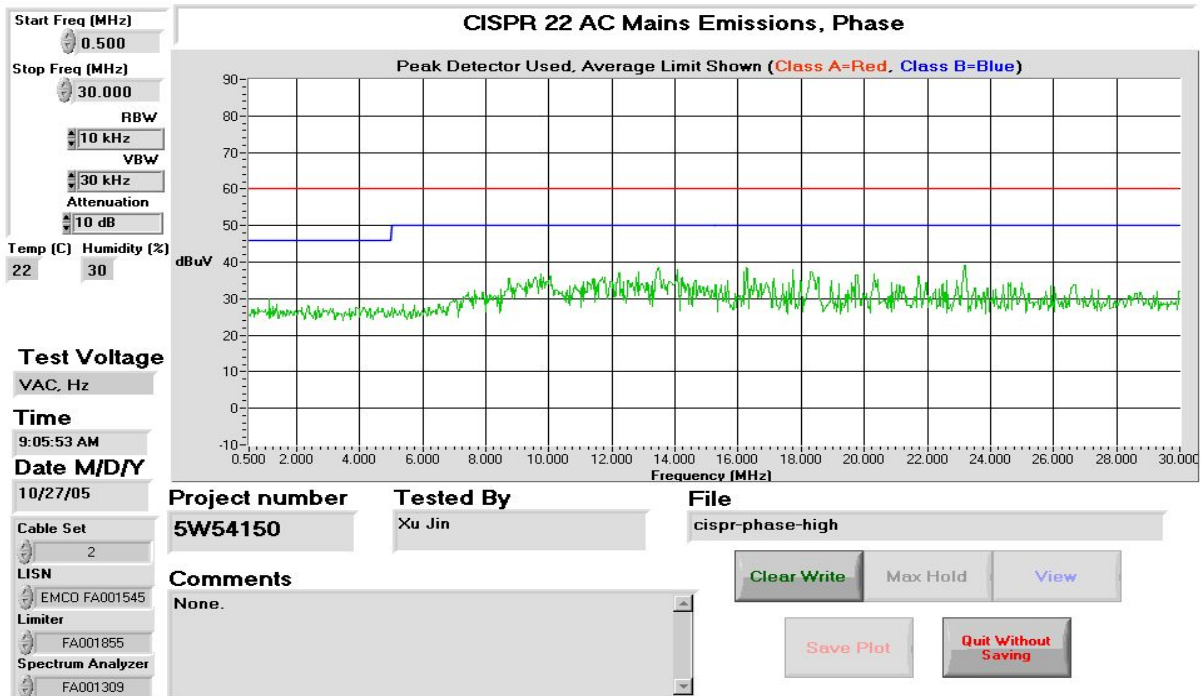
Sample Number:	1,2	Temperature:	22 °C
Date:	Oct.27, 2005	Humidity:	50 %
Modification State:	0	Tester:	Xu Jin
		Laboratory:	Ottawa

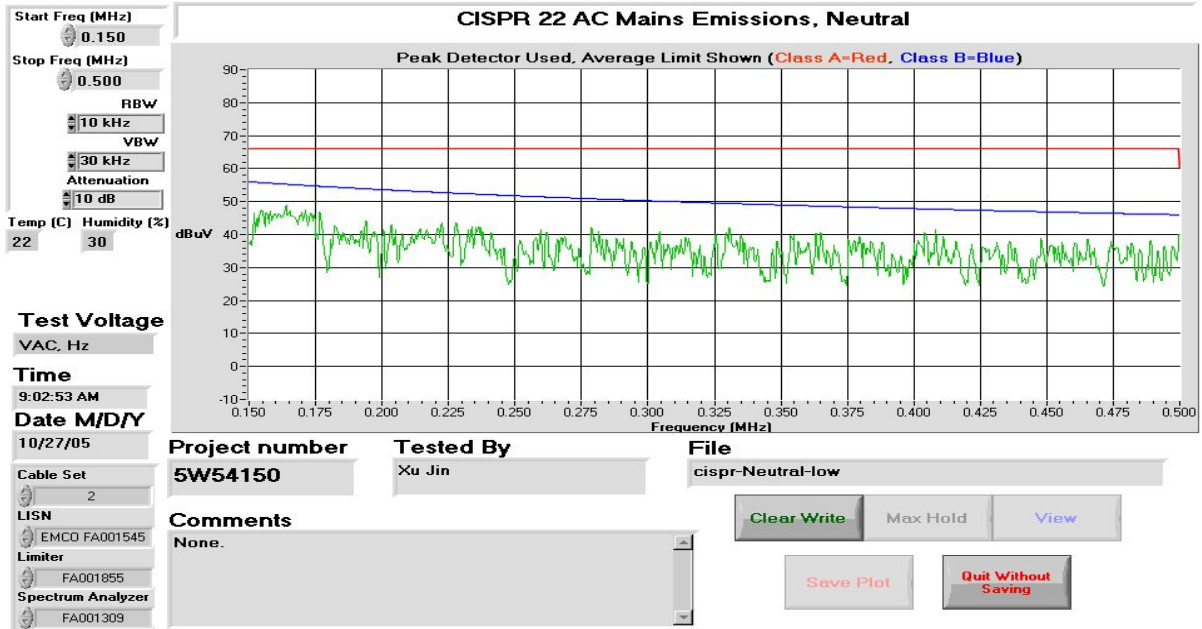
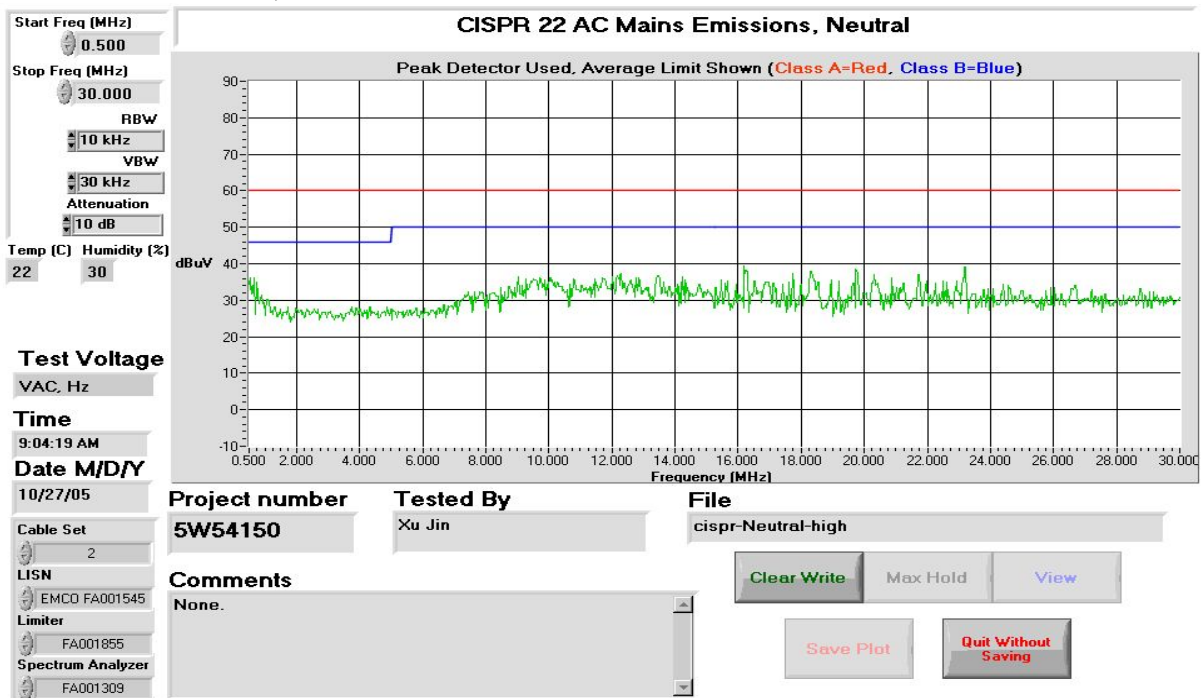
Test Results: Complies

Test Data: See Attached Plots and Tables.

Conducted Disturbance at Mains, Setup Photos



Conducted Disturbance at Mains, Plots**Phase, 0.150 – 0.500 MHz****Phase, 0.500 – 30 MHz**

Conducted Disturbance at Mains Plots, continued**Neutral, 0.150 – 0.500 MHz****Neutral, 0.500 – 30 MHz**

Section 2. Emission Bandwidth**Criteria: Clause 15.403(i)**

(i) Emission bandwidth. For purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Determination of the emissions bandwidth is based on the use of measurement instrumentation employing a peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

Test Conditions:

Sample Number:	1,2	Temperature:	22 °C
Date:	Oct. 24, 2005	Humidity:	50 %
Modification State:	0	Tester:	Xu Jin
		Laboratory:	Ottawa

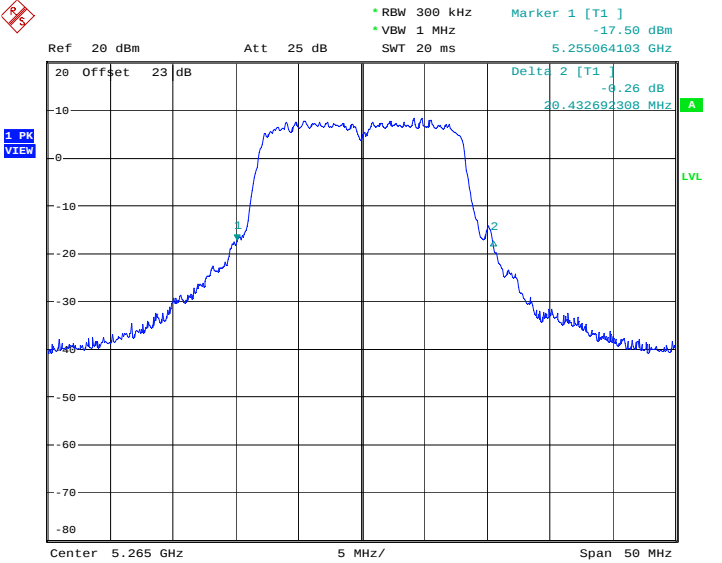
Test Results: Complies

Test Data: See attached table and graphics

26dB Bandwidth (MHz)

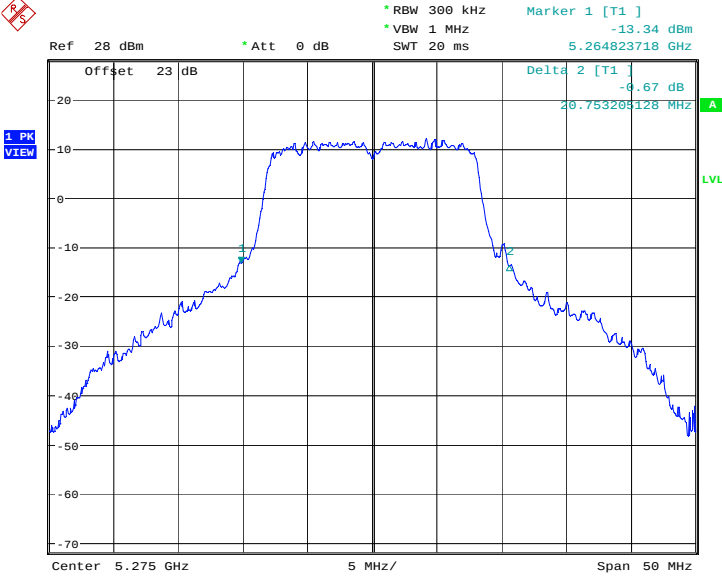
Data Rate	5265MHz	5275MHz	5295MHz	5325MHz	5330MHz
6 Mb/s	20.43	20.75	20.95	20.99	19.79
54 Mb/s	18.99	19.63	19.7	20.03	18.99

6Mb/s---5265MHz



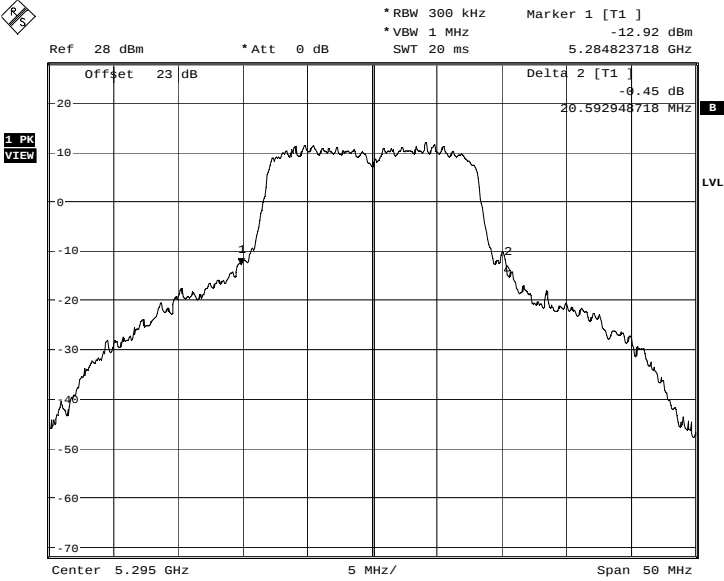
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6Mb/s---5275MHz



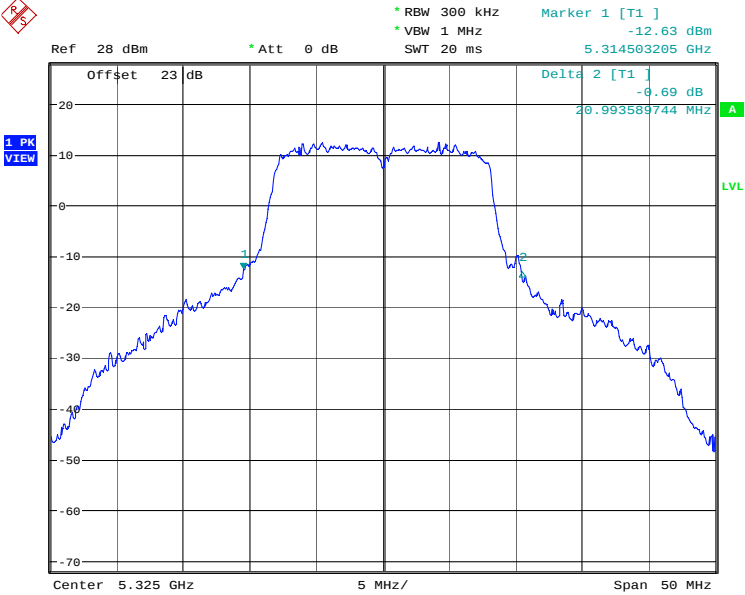
Date: 28.OCT.2005 14:24:04

6Mb/s---5295MHz



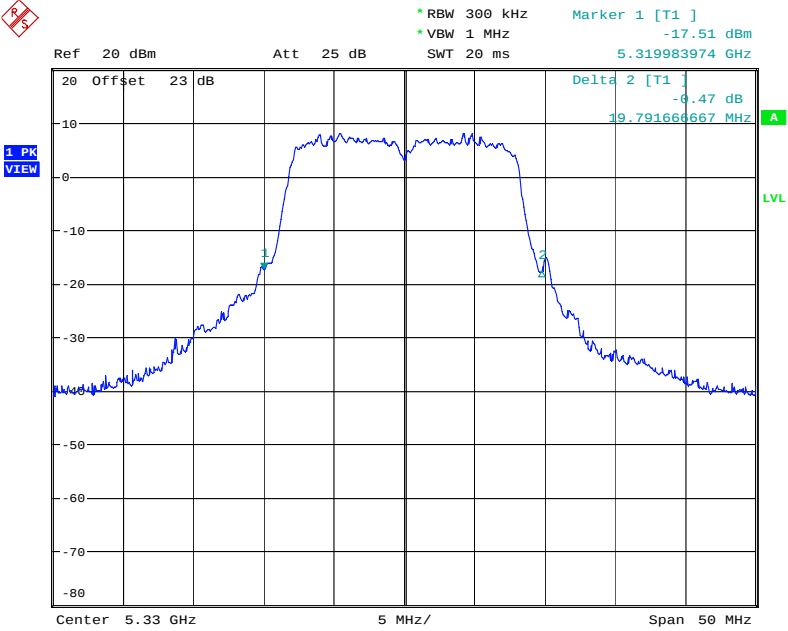
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6Mb/s---5325MHz



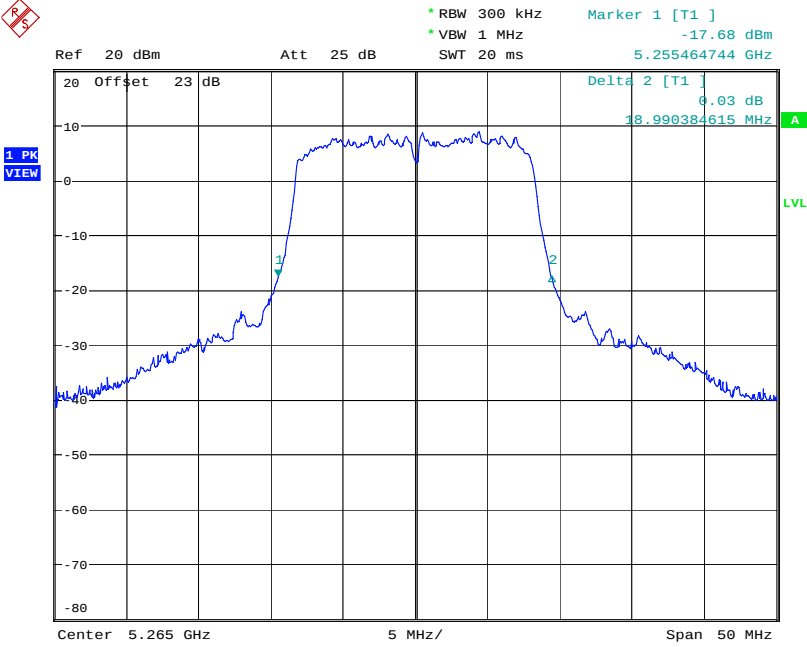
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6Mb/s---5330MHz



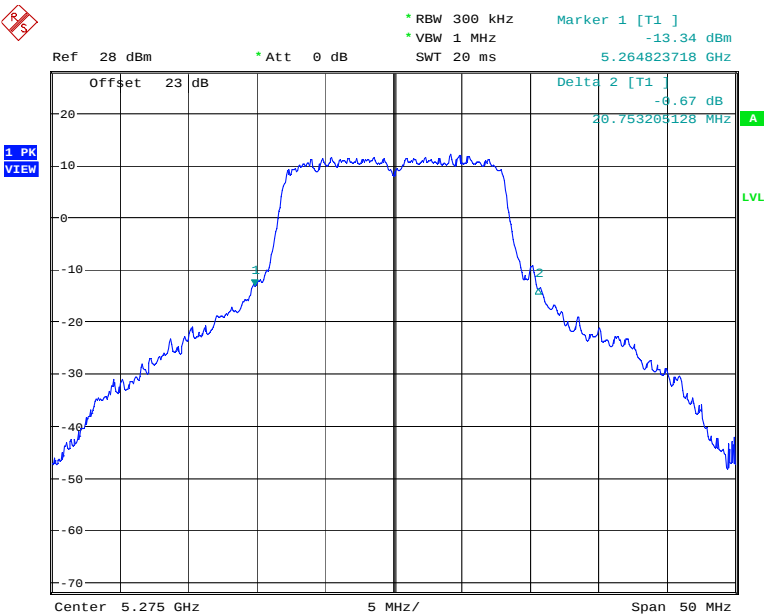
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54Mb/s---5265MHz



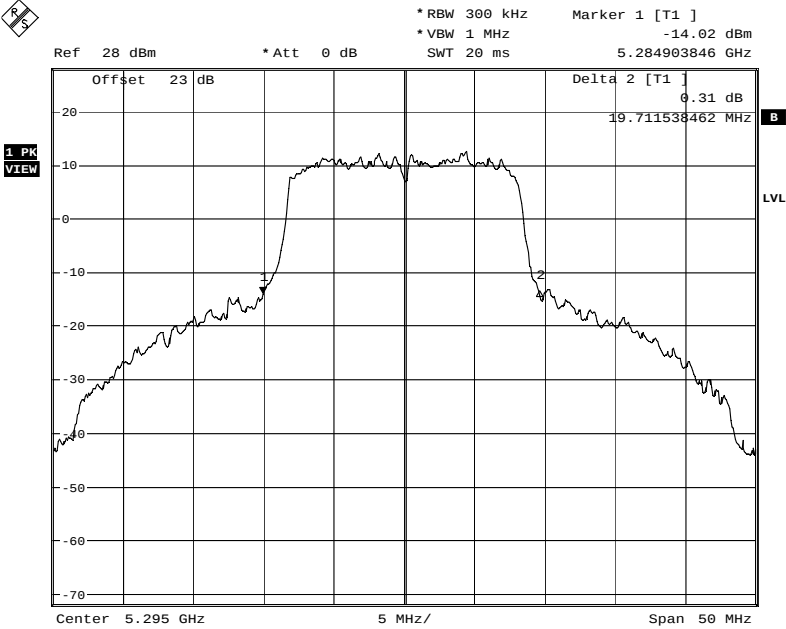
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54Mb/s---5275MHz



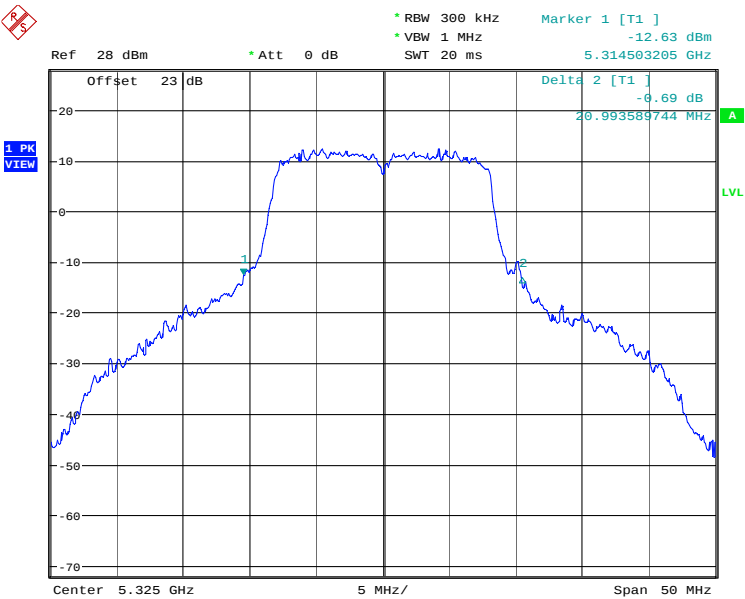
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54Mb/s---5295MHz



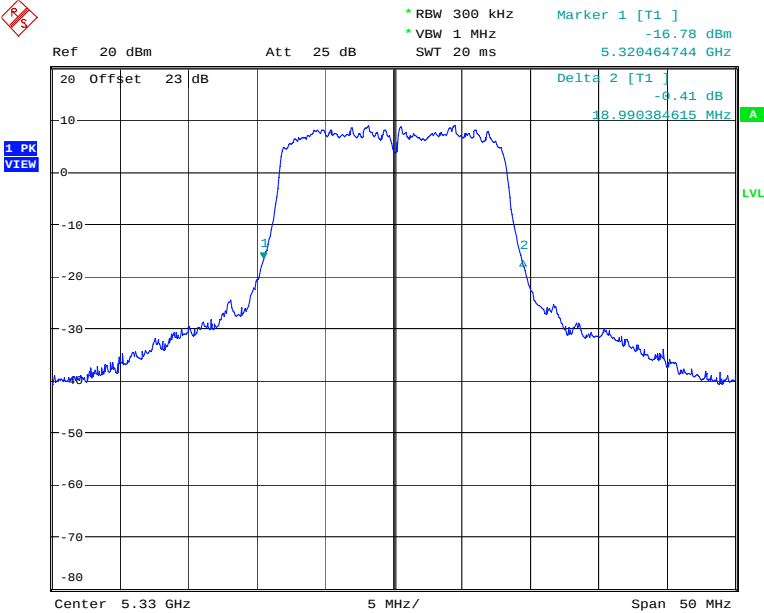
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54Mb/s---5325MHz



Date: 28.OCT.2005 14:27:11

54Mb/s---5330MHz



Date: 9.DEC.2005 13:47:23

Section 3. Output Power**Criteria: Clause 15.407(a)(2)**

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Conditions:

Sample Number:	1,2	Temperature:	22 °C
Date:	Oct. 24, 2005	Humidity:	50 %
Modification State:	0	Tester:	Xu Jin
		Laboratory:	Ottawa

Test Method: Output power was measured using sample detector on the spectrum analyser according to FCC Public Notice: DA 02-2138.

Test Results: Complies

Test Data: See attached table and graphics

10dBi and 4dBi Maxrad Antenna Conducted Output Power Test Data (dBm)

Frequency (MHz)		6 Mb/s	54 Mb/s
5265	10dBi	16.52	16.05
	4dBi	19.16	19.65
5275 10dBi & 4dBi		20.16	20.17
5295 10dBi & 4dBi		19.73	19.90
5325 10dBi & 4dBi		20.19	20.53
5330	10dBi	16.26	16.34
	4dBi	17.39	17.83

Note: To achieve the restricted band and band edge requirement, the power level for 10dBi Maxrad antenna at frequency of 5265MHz and 5330MHz have been reduced to 17dBm*. For 4dBi Maxrad antenna, the power level at 5330MHz has be reduced to 18dBm* as shown in the table above.

*Customer rated power is average power measured using a wide band power meter with a thermocouple detector

Manufacturer has declared there is 1dB cable loss between the radio module and antenna connector.

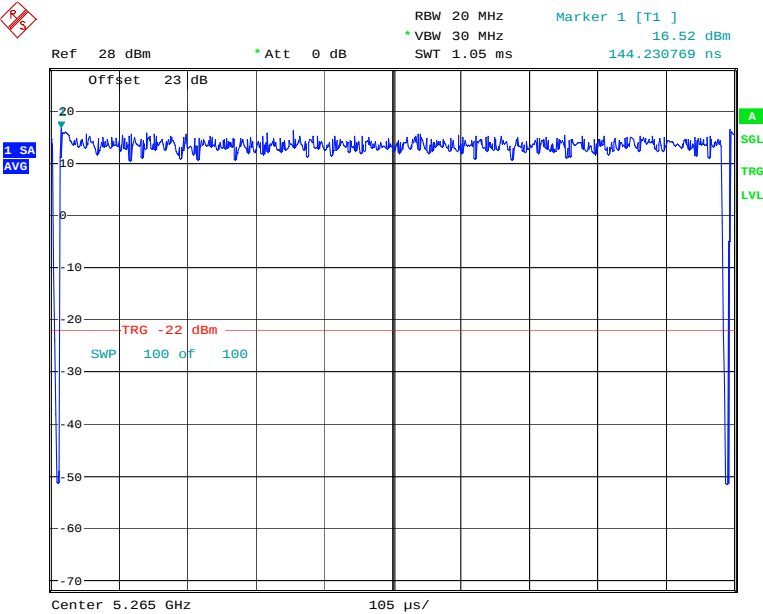
The Maximum Conducted Power for 10dBi and 4dBi antenna
=20.53dBm-1dB=19.53dBm

Limit:

(1). Conducted Power Limit for 10dBi Maxrad Antenna
 $24\text{dBm} - (10\text{dBi} - 6\text{dBi}) = 20\text{dBm}$

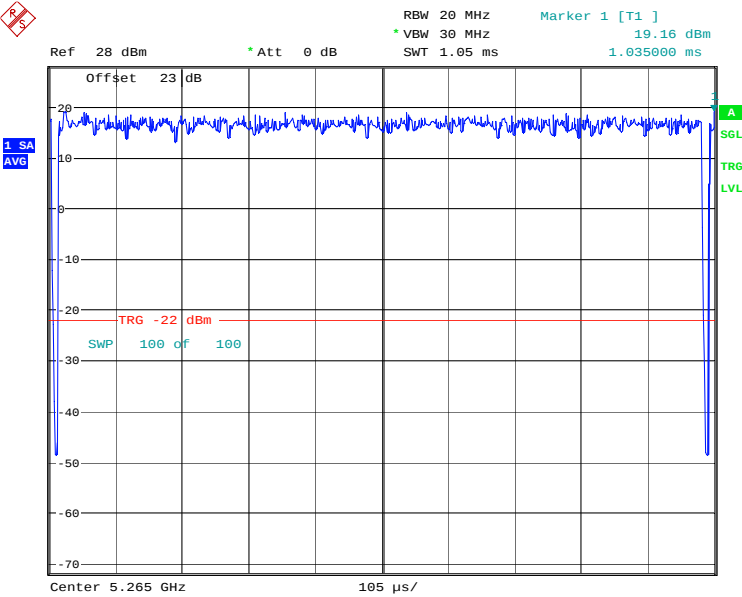
(2).Conducted Power Limit for 4dBi Maxrad Antenna
24dBm

6Mb/s-5265MHz—10dBi Maxrad Antenna



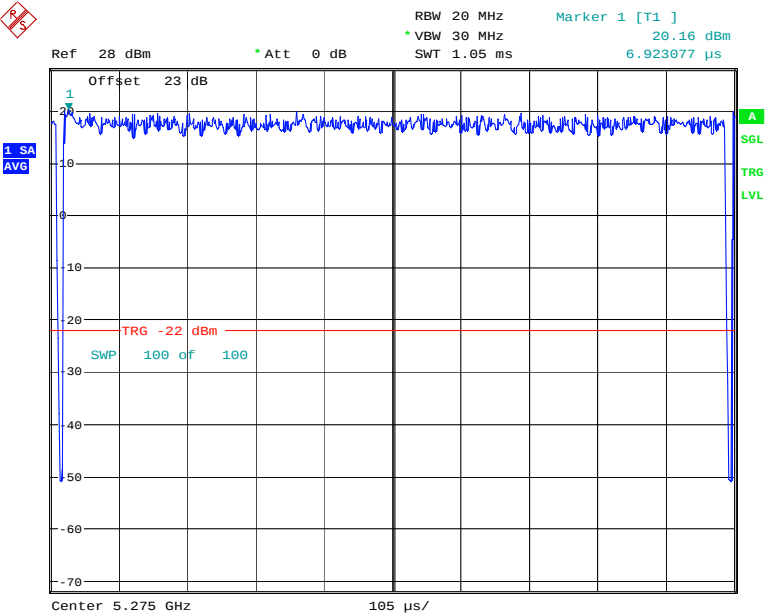
Date: 9.DEC.2005 15:44:54

6Mb/s-5265MHz—4dBi Maxrad Antenna



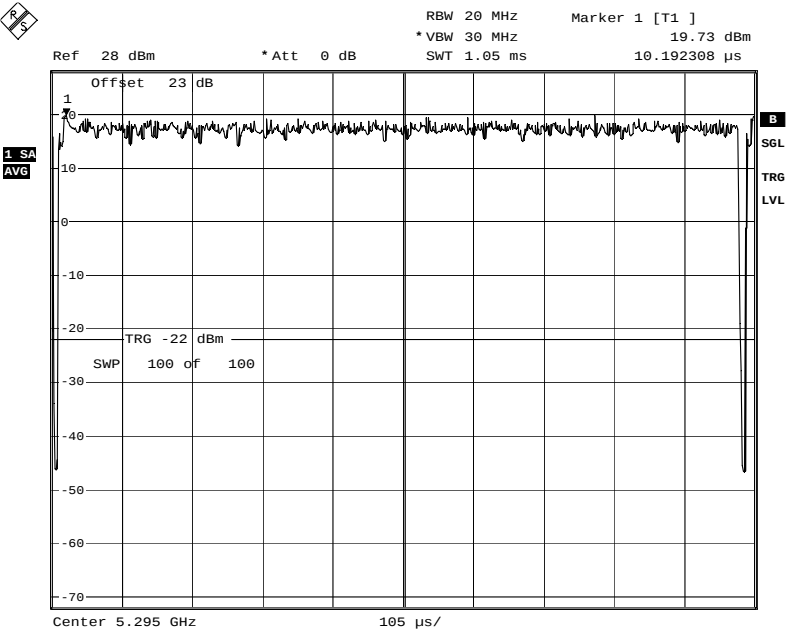
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6Mb/s-5275MHz



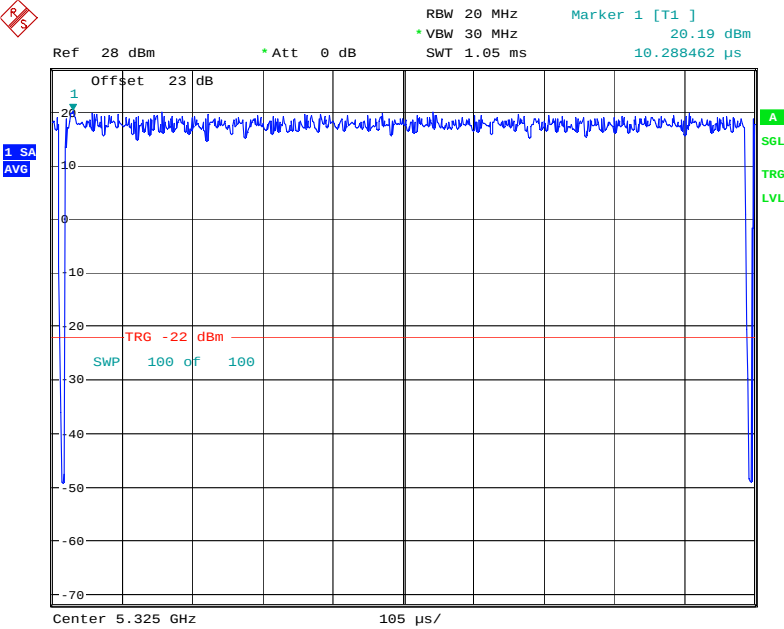
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6Mb/s-5295MHz



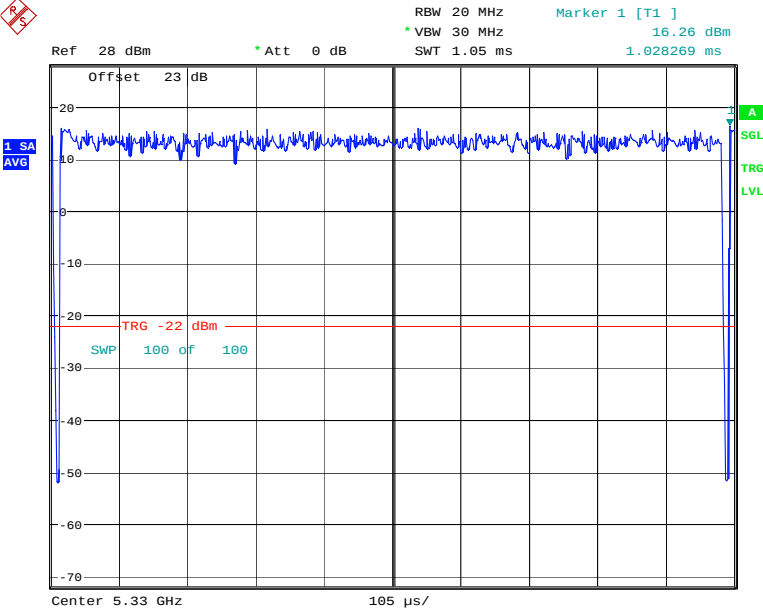
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6Mb/s-5325MHz



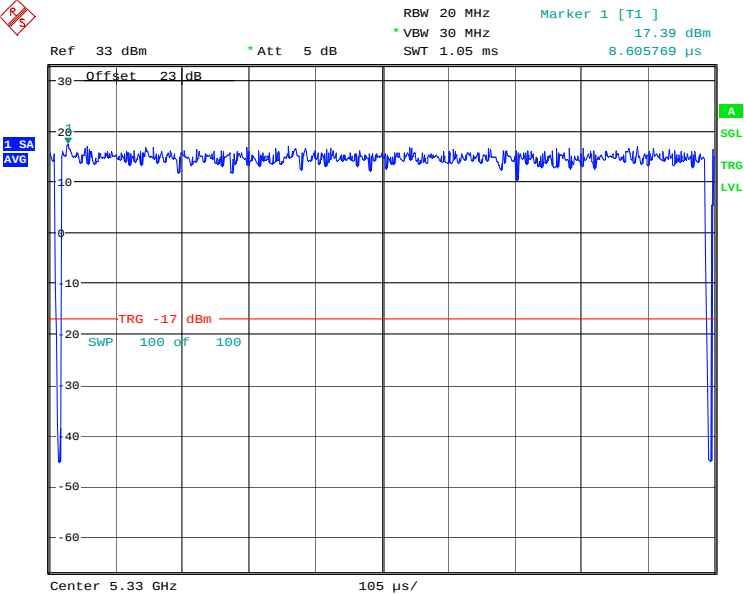
Date: 31.OCT.2005 09:23:53

6Mb/s-5330MHz---10dBi Maxrad Antenna



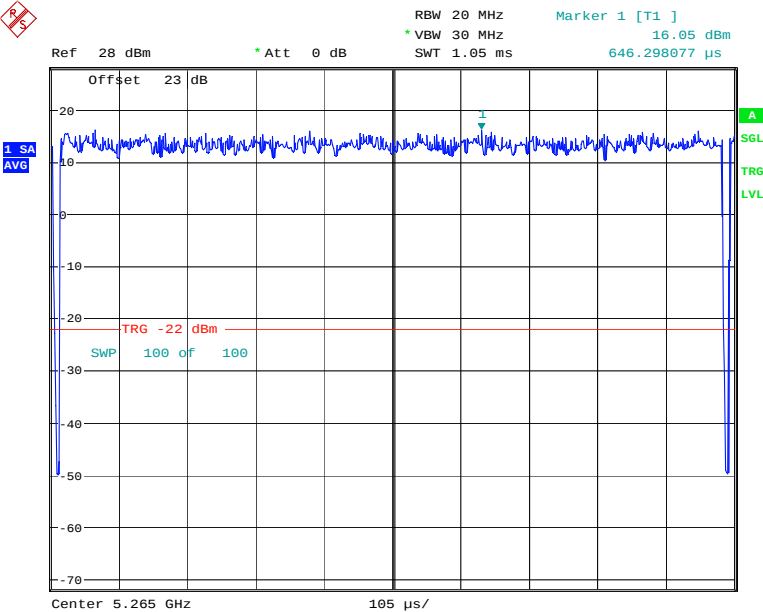
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6Mb/s-5330MHz---4dBi Maxrad Antenna



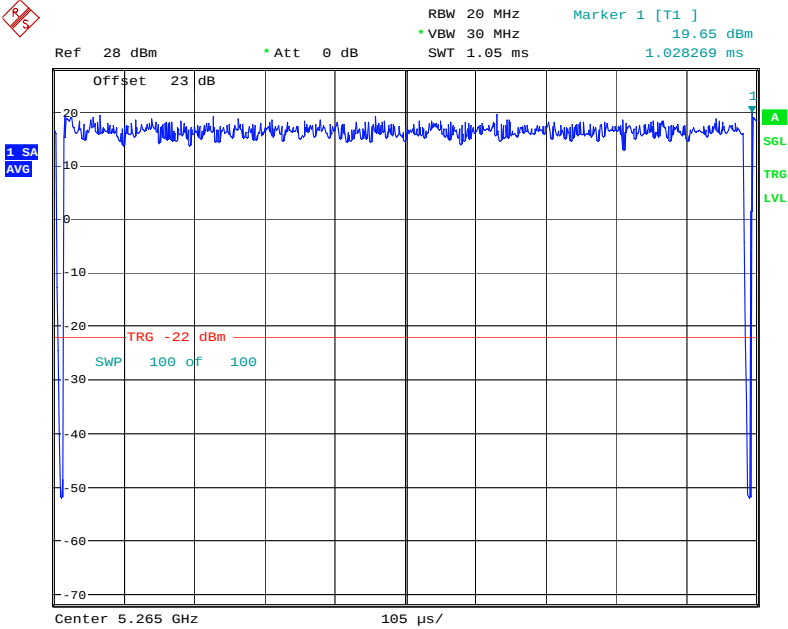
Date: 14.DEC.2005 08:57:46

54Mb/s-5265MHz---10dBi Maxrad Antenna



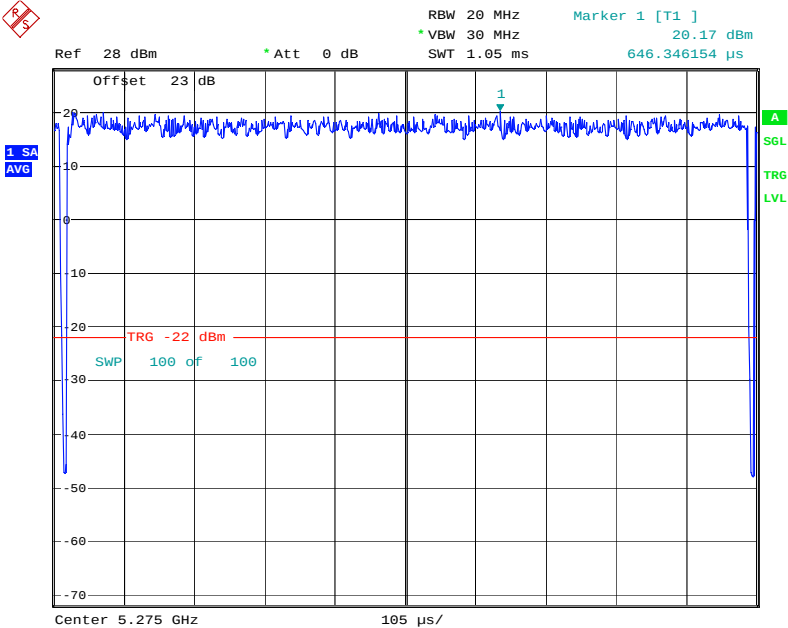
Date: 9.DEC.2005 15:45:47

54Mb/s-5265MHz---4dBi Maxrad Antenna



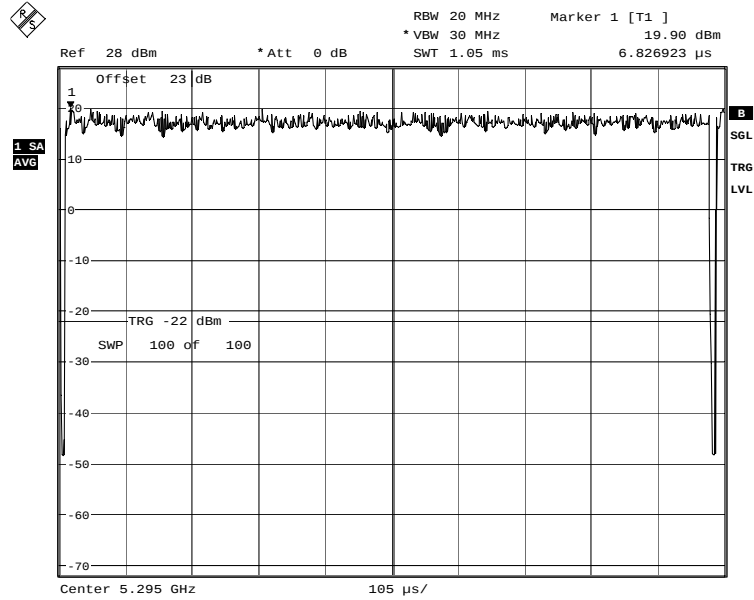
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54Mb/s-5275MHz



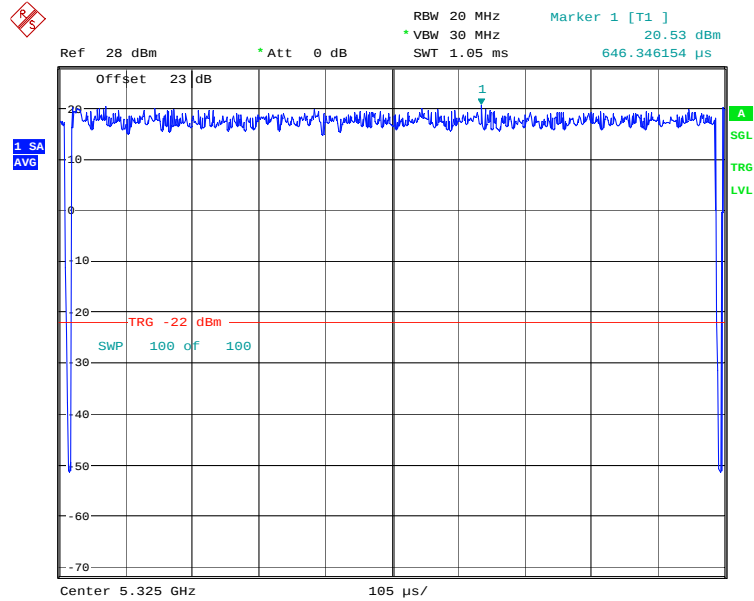
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54Mb/s-5295MHz



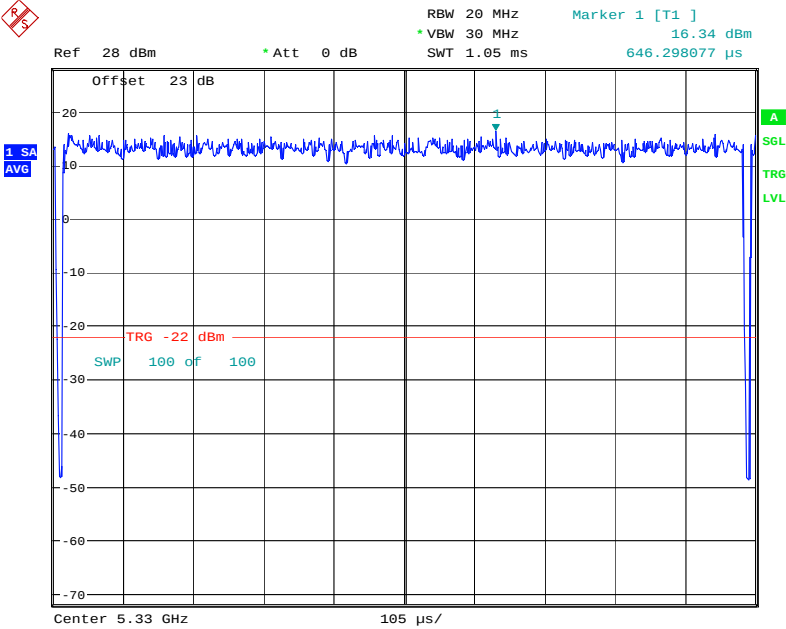
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54Mb/s-5325MHz



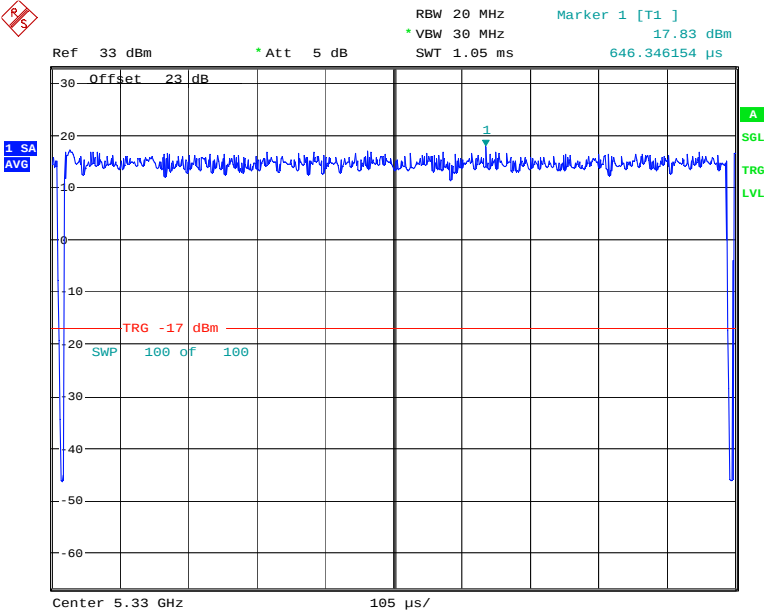
Date: 31.OCT.2005 09:25:41

54Mb/s-5330MHz---10dBi Maxrad Antenna



Date: 9.DEC.2005 15:47:26

54Mb/s-5330MHz---4dBi Maxrad Antenna



Date: 14.DEC.2005 08:56:49

**15dBi Belair Patch Antenna
Conducted Output Power Test Data (dBm)**

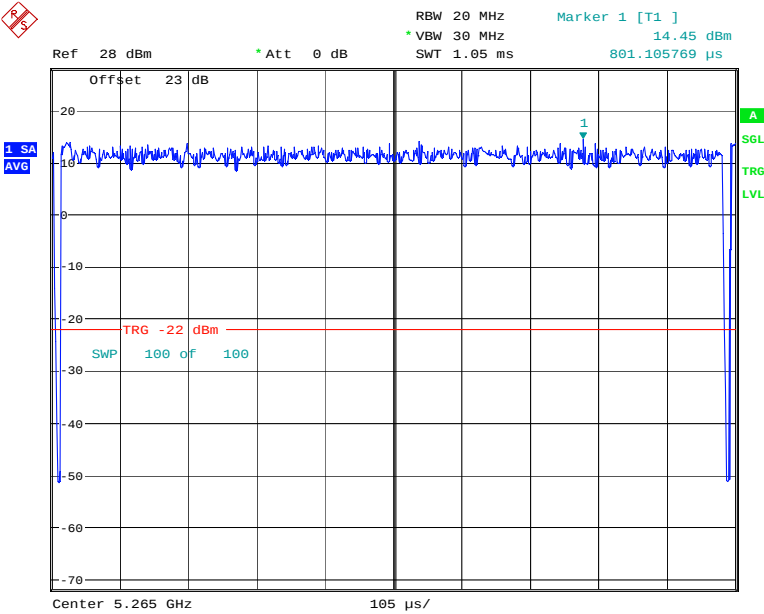
Frequency (MHz)	6 Mb/s	54 Mb/s
5265	14.45	14.33
5275	15.02	15.18
5295	15.16	15.03
5325	15.07	15.31
5330	14.48	14.75

Manufacturer has declared there is 1dB cable loss between the radio module and antenna connector.

The Maximum Conducted Power for 15dBi Belair Patch Antenna
=15.31dBm-1dB=14.31dBm

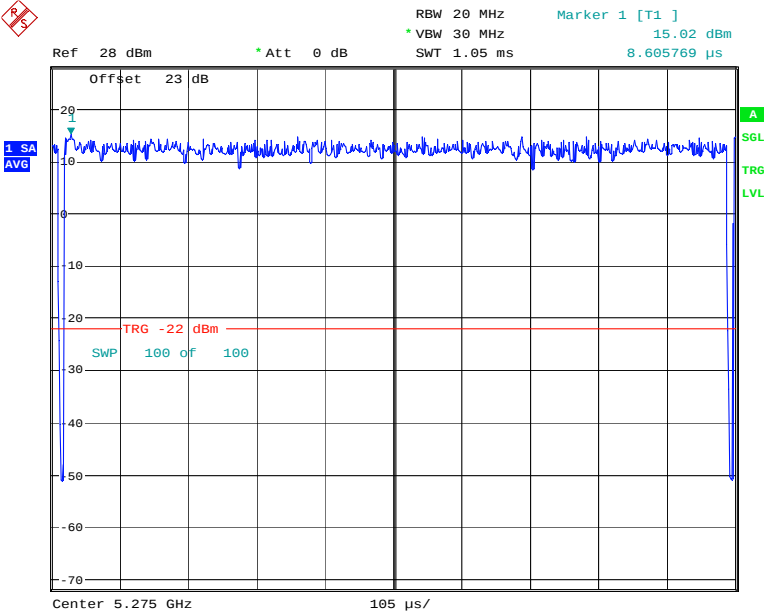
Limit: Conducted Power Limit for 15dBi Belair Patch Antenna
 $24\text{dBm} - (15\text{dBi} - 6\text{dBi}) = 15\text{dBm}$

6Mb/s-5265MHz



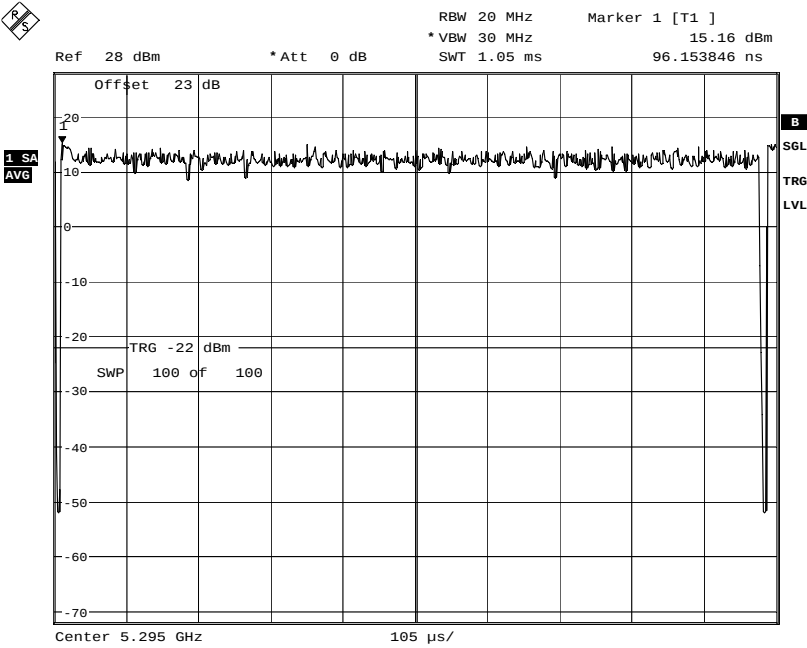
Date: 13.DEC.2005 10:29:07

6Mb/s-5275MHz



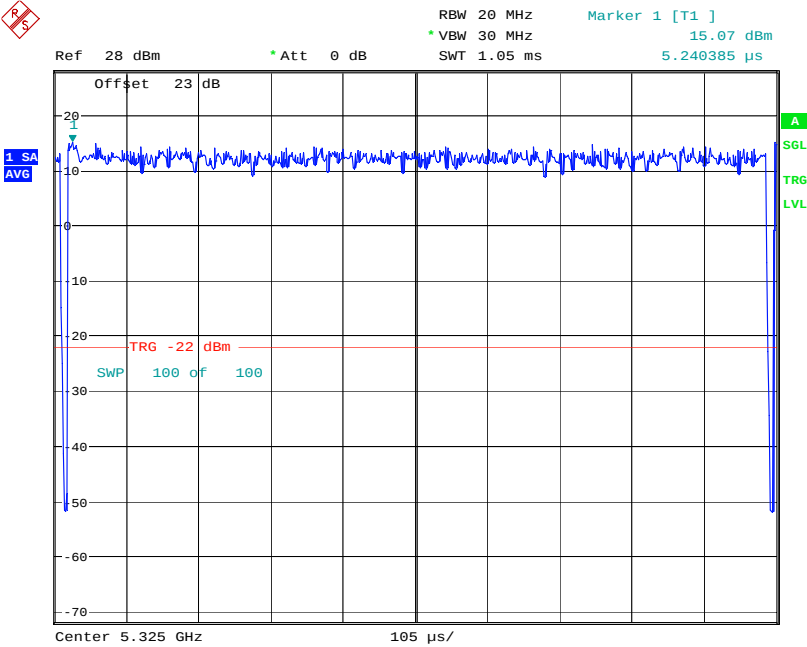
Date: 31.OCT.2005 09:36:46

6Mb/s-5295MHz



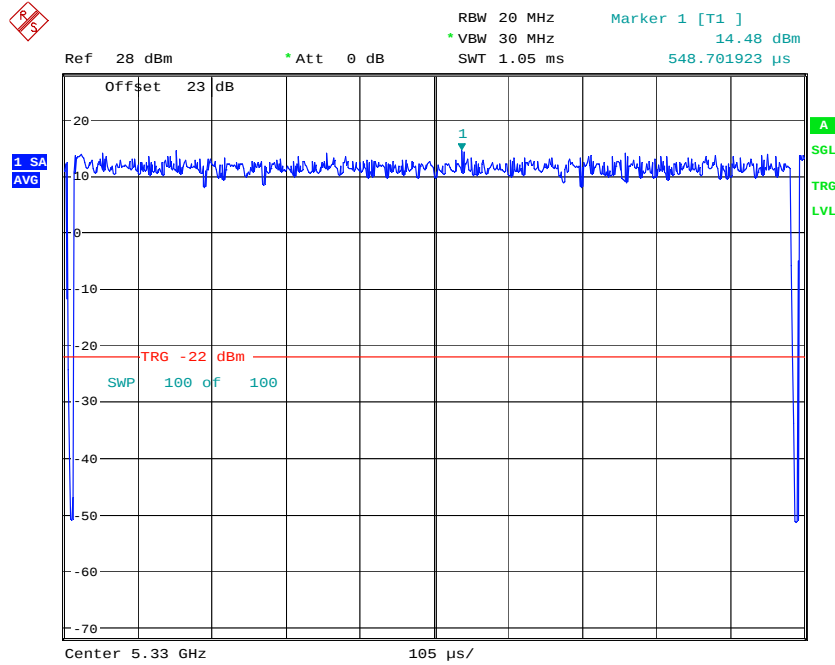
Date: 24.OCT.2005 15:30:36

6Mb/s-5325MHz



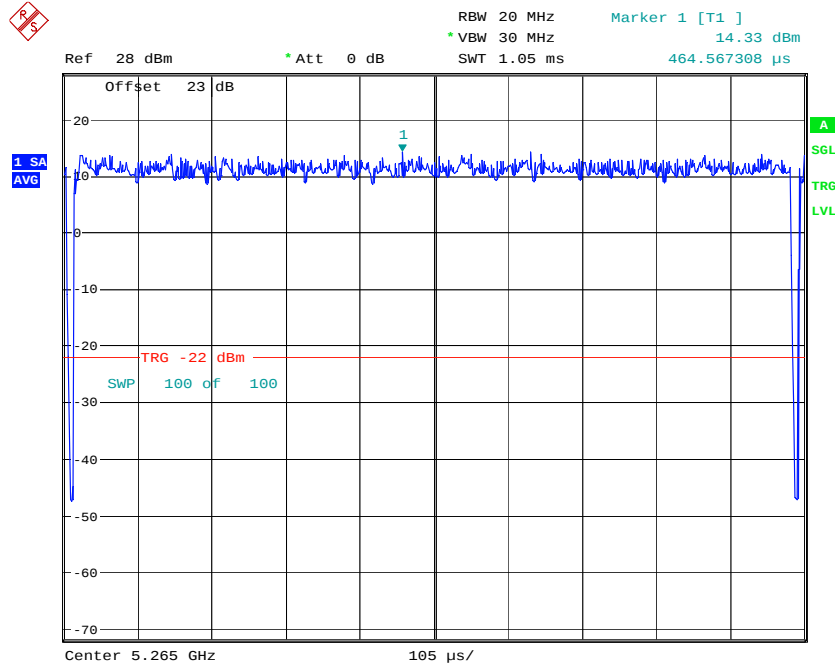
Date: 31.OCT.2005 09:49:12

6Mb/s-5330MHz



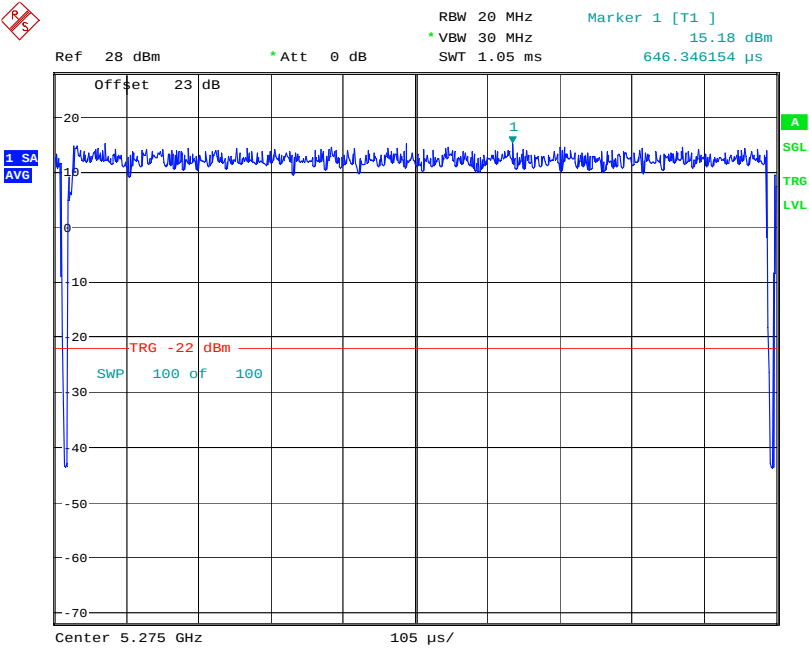
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54Mb/s-5265MHz



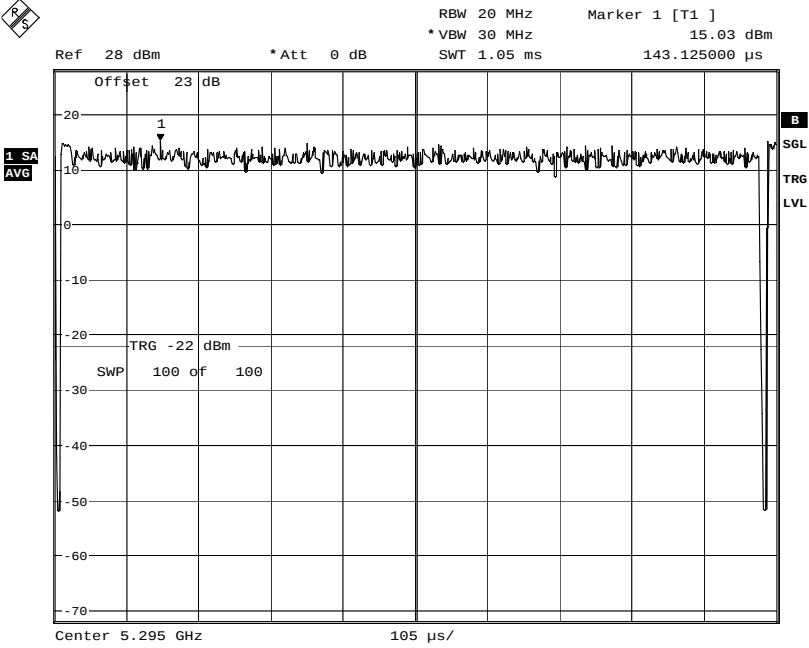
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54Mb/s-5275MHz



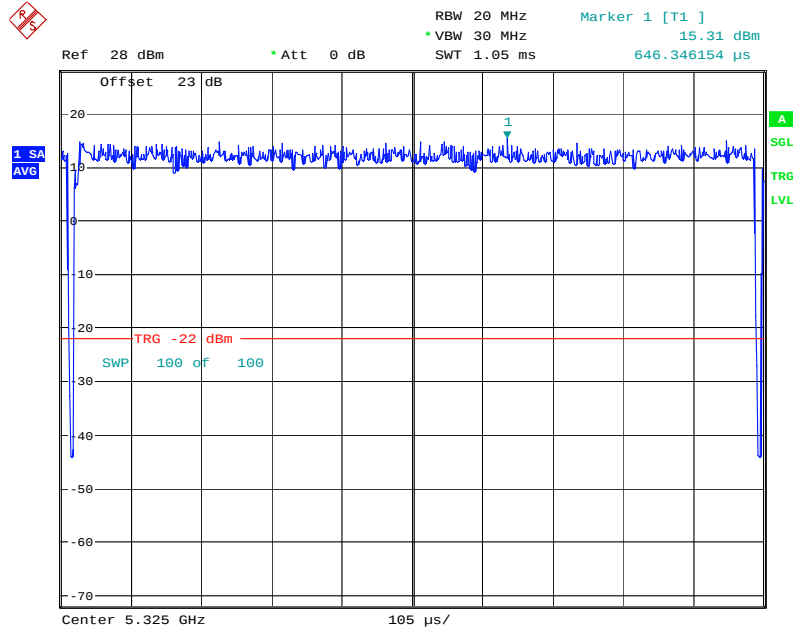
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54Mb/s-5295MHz



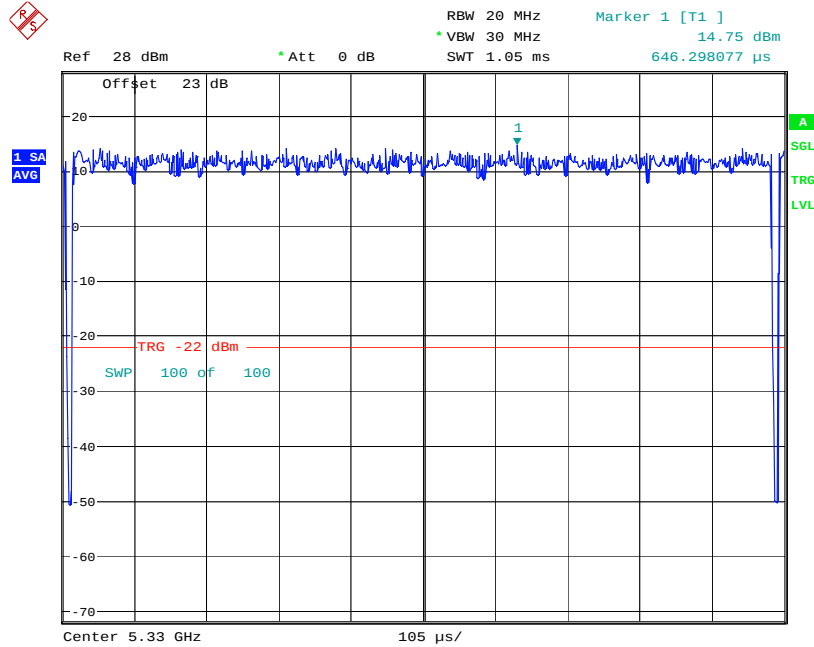
Date: 24.OCT.2005 15:31:16

54Mb/s-5325MHz



Date: 31.OCT.2005 09:49:57

54Mb/s-5330MHz



Date: 13.DEC.2005 10:31:41

23dBi Belair Patch Antenna**Conducted Output Power Test Data (dBm)**

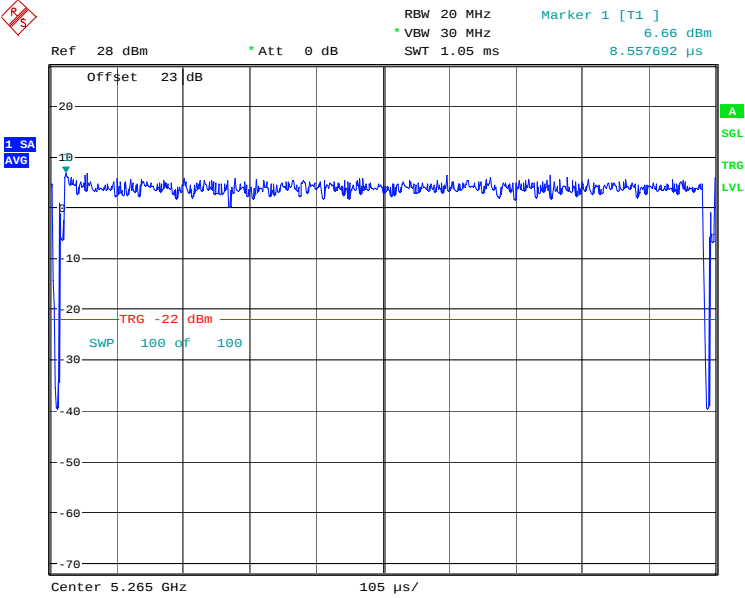
Frequency (MHz)	6 Mb/s	54 Mb/s
5265	6.66	6.57
5275	7.24	7.35
5295	6.89	7.49
5325	7.44	7.65
5330	6.31	6.59

Manufacturer has declared there is 1dB cable loss between the radio module and antenna connector.

The Maximum Conducted Power for 23dBi H&S Antenna
=7.65dBm-1dB=6.65dBm

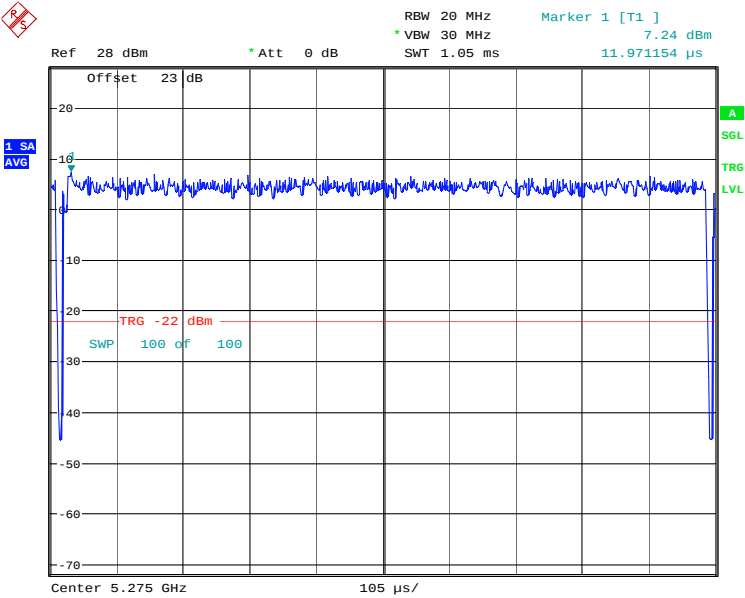
Limit: Conducted Power Limit for 23dBi H&S Antenna
24dBm-(23dBi-6dBi)=7dBm

6Mb/s-5265MHz



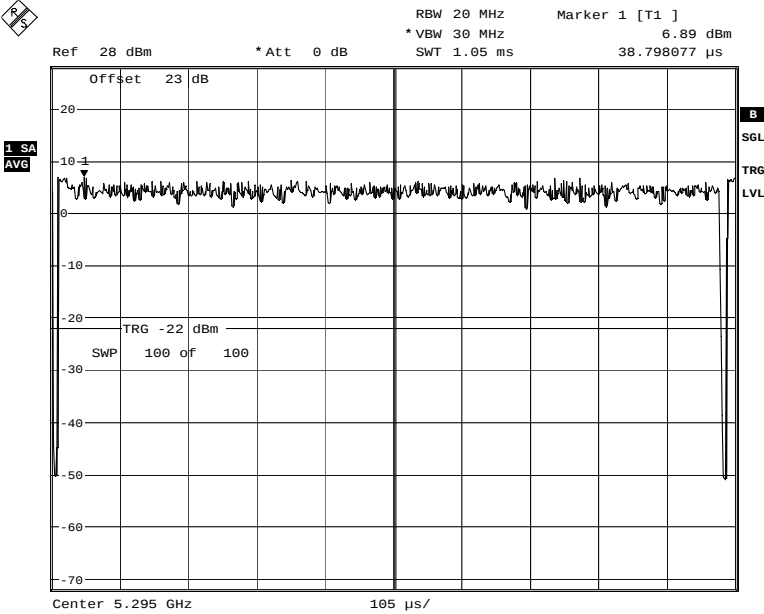
Date: 13.DEC.2005 11:03:17

6Mb/s-5275MHz



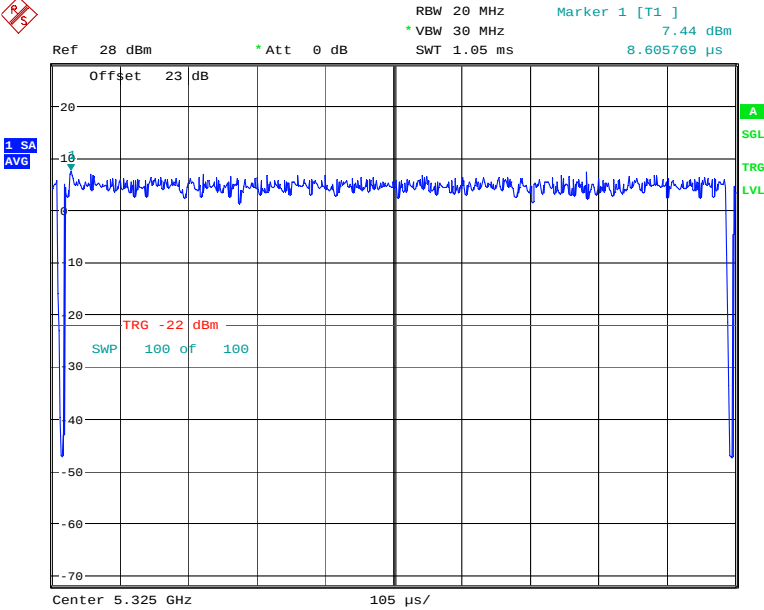
Date: 31.OCT.2005 09:56:10

6Mb/s-5295MHz



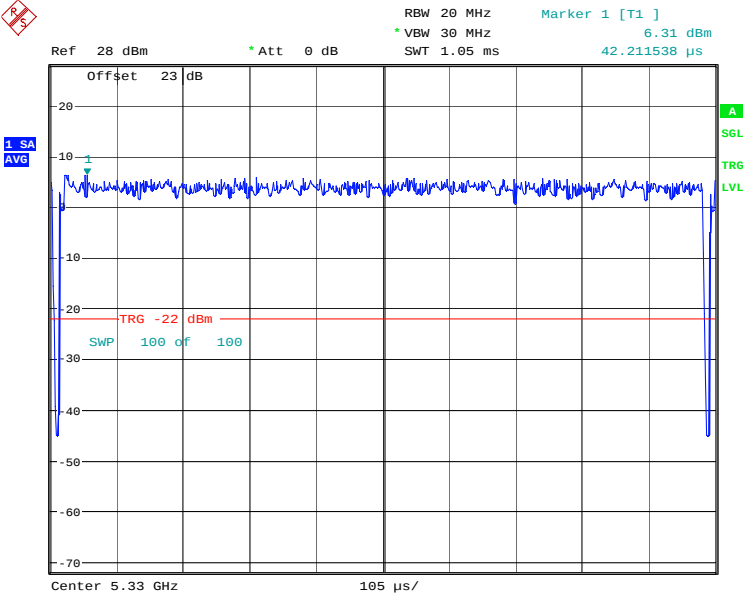
Date: 24.OCT.2005 15:47:26

6Mb/s-5325MHz



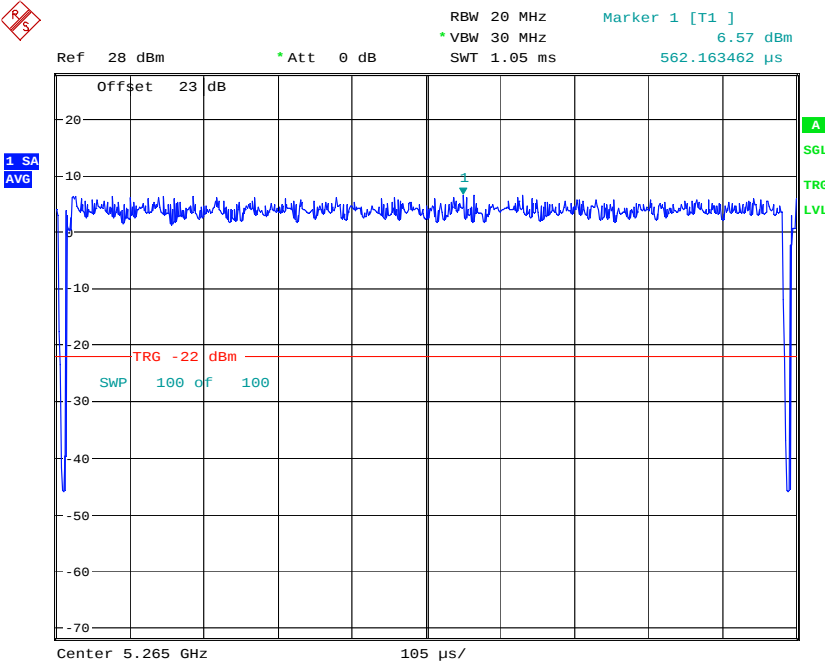
Date: 31.OCT.2005 09:58:38

6Mb/s-5330MHz



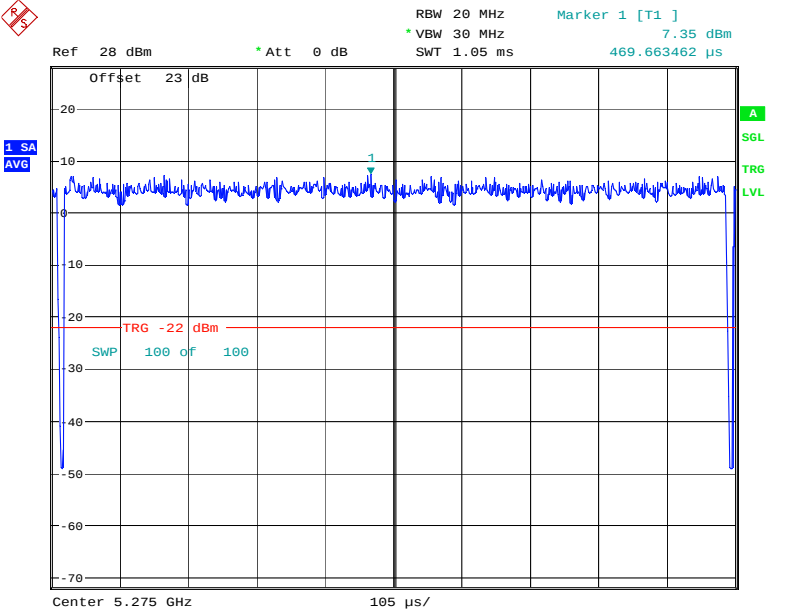
Date: 13.DEC.2005 11:04:53

54Mb/s-5265MHz



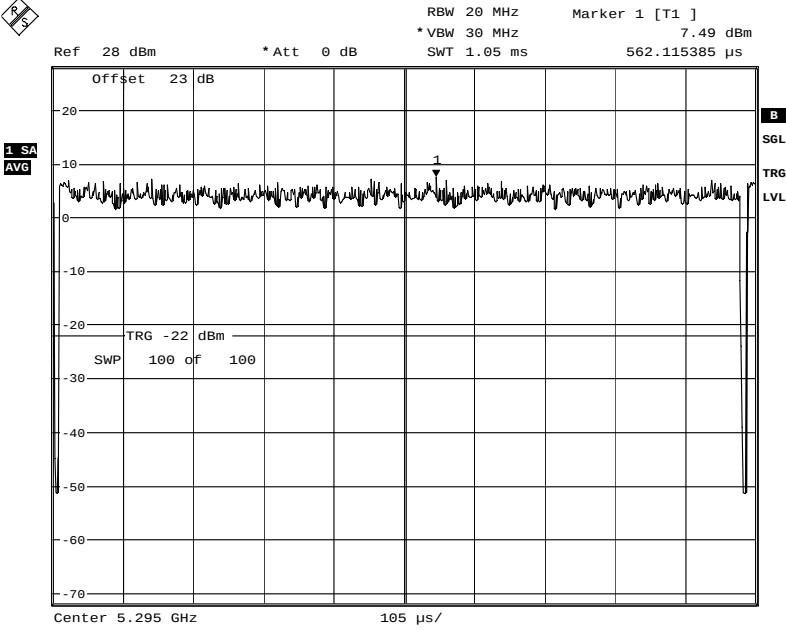
Date: 13.DEC.2005 11:04:03

54Mb/s-5275MHz



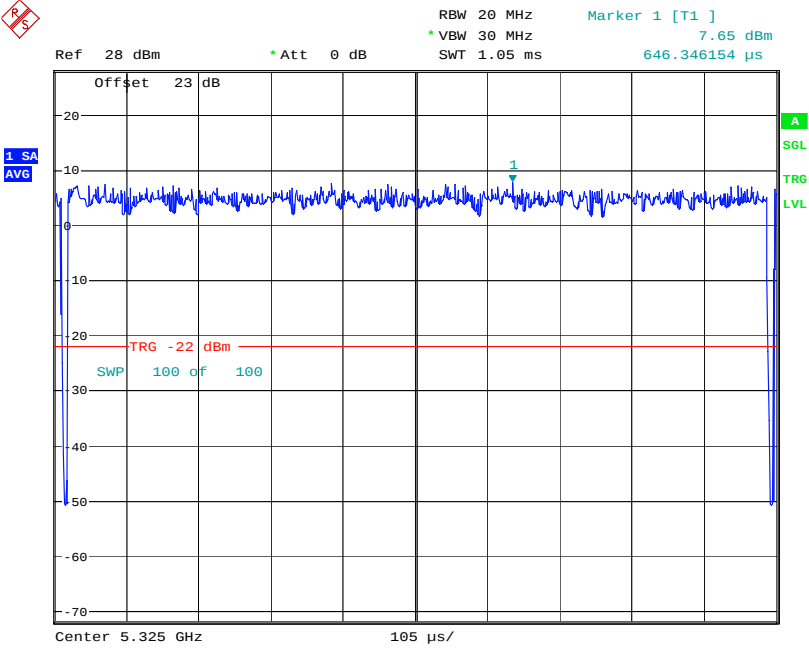
Date: 31.OCT.2005 09:57:46

54Mb/s-5295MHz



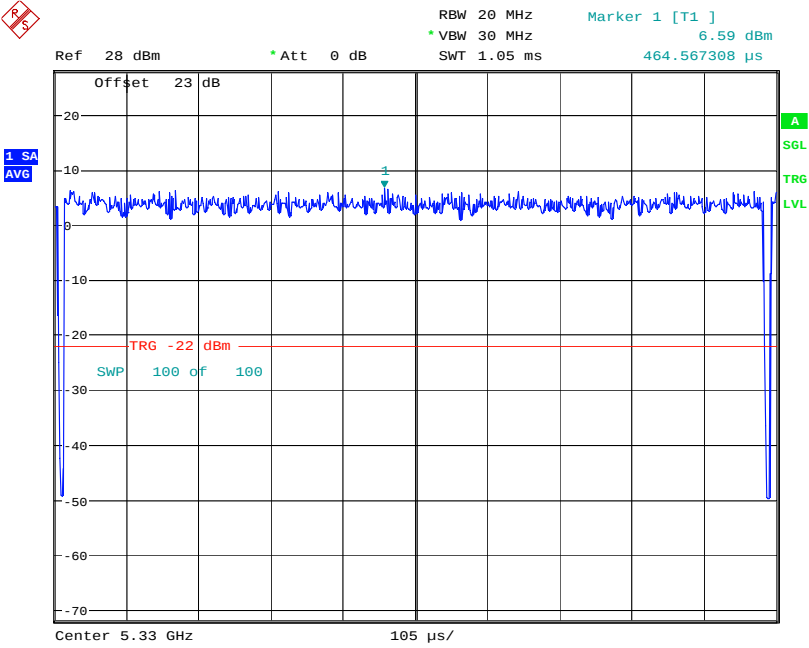
Date: 24.OCT.2005 15:48:21

54Mb/s-5325MHz



Date: 31.OCT.2005 09:59:22

54Mb/s-5330MHz



Date: 13.DEC.2005 11:05:36

Section 4. Spurious Emissions not in Restricted Band**Criteria: Clause 15.407(b)(2)**

(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.

Criteria: Clause 15.407(b)(6)

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209

Test Conditions:

Sample Number:	1,2,3,4,5,6,	Temperature:	22 °C
Date:	Oct. 27 2005	Humidity:	50 %
Modification State:	0	Tester:	Xu Jin
		Laboratory:	Ottawa

Test Result: Complies

Test Data: See attached plots and tables

Note:

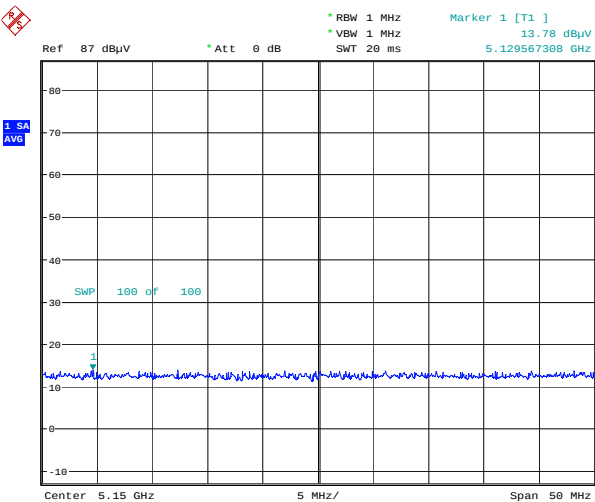
Emissions were searched for all possible antenna configurations.

The DUT was searched from 30MHz to the 10th harmonic of the EUT, and for low, medium and high frequencies. Only worst case was reported.

10dBi Maxrad Antenna

Band Edge Check, _Ch53, 5265MHz,

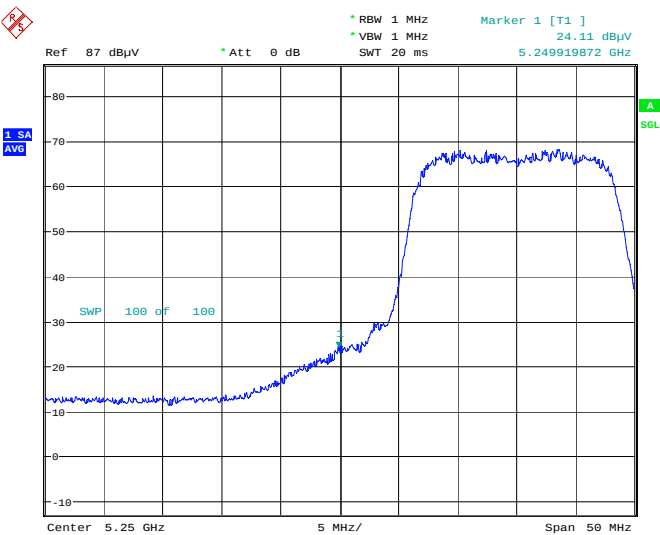
Band Edge Level (dBuV)	Signal Substitution Level (dB)	Emission Level (dBm/MHz)	Limit (dBm/MHz)
13.73	-56.59	-42.86	-27.0



Date: 6.DEC.2005 10:24:38

Band Edge Check, _Ch53, 5265MHz,

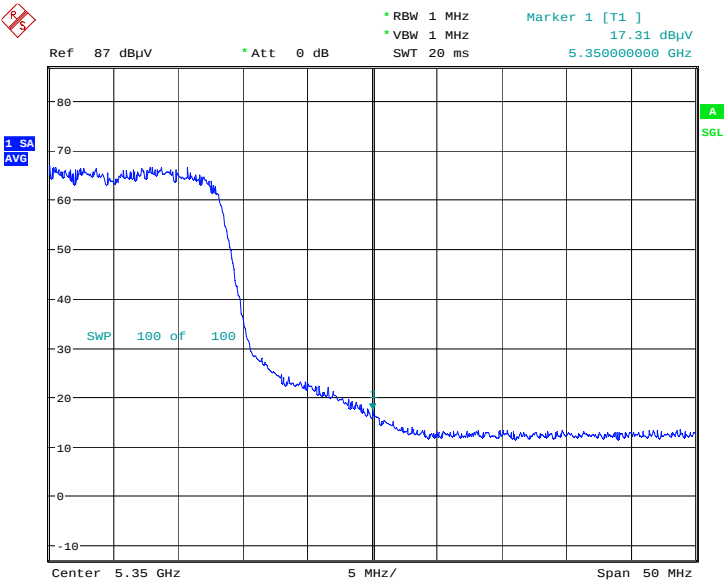
Band Edge Level (dBuV)	Signal Substitution Level (dB)	Emission Level (dBm/MHz)	Limit (dBm/MHz)
24.11	-56.59	-32.48	-27.0



Date: 6.DEC.2005 10:25:17

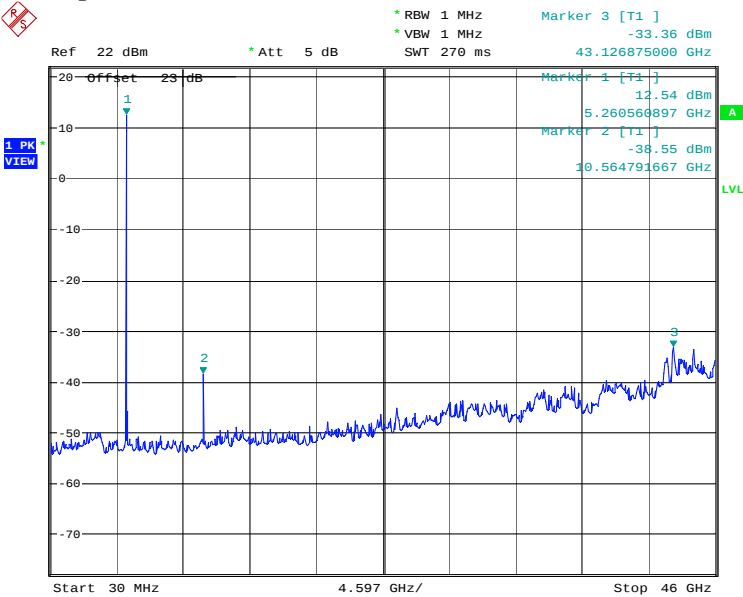
Band Edge Check, _Ch66, 5330MHz,

Band Edge Level (dBuV)	Signal Substitution Level (dB)	Emission Level (dBm/MHz)	Limit (dBm/MHz)
17.31	-56.59	-39.28	-27.0



Date: 6.DEC.2005 10:26:46

Full Span_ Conducted Emissions

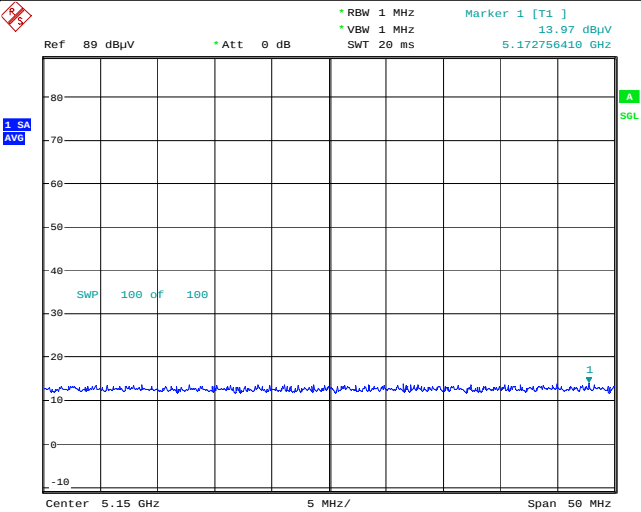


Date: 14.DEC.2005 09:08:52

4dBi Maxrad Antenna

Band Edge Check, _Ch53, 5265MHz,

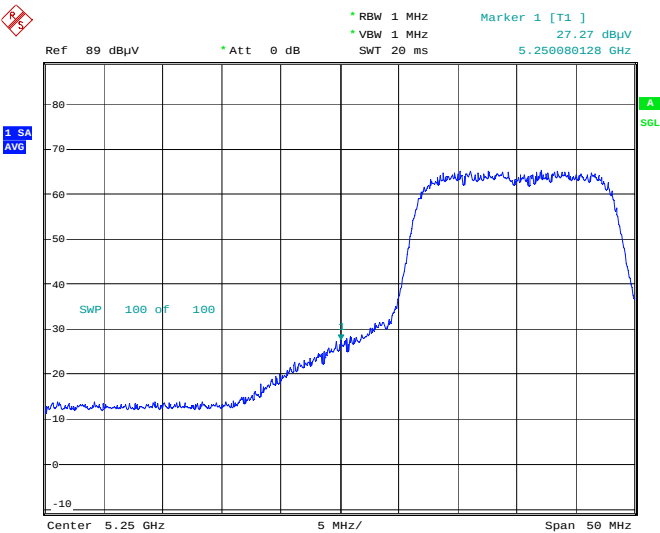
Band Edge Level (dBuV)	Signal Substitution Level (dB)	Emission Level (dBm/MHz)	Limit (dBm/MHz)
13.97	-56.59	-42.62	-27.0



Date: 13.DEC.2005 13:50:28

Band Edge Check, _Ch53, 5265MHz,

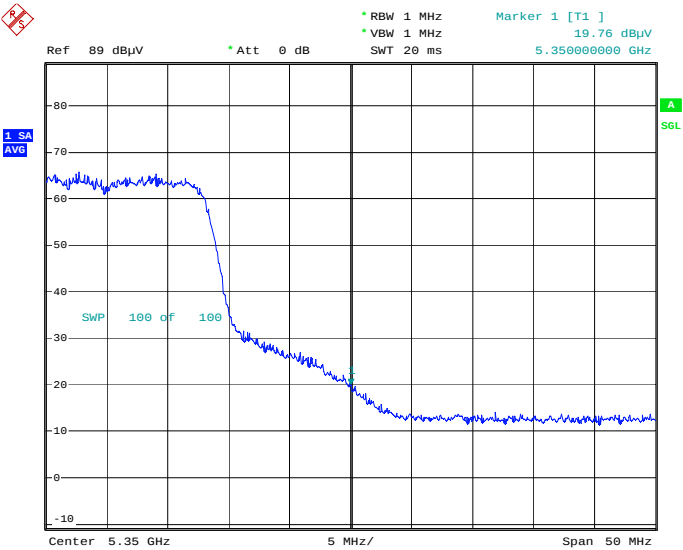
Band Edge Level (dBuV)	Signal Substitution Level (dB)	Emission Level (dBm/MHz)	Limit (dBm/MHz)
27.27	-56.59	-29.32	-27.0



Date: 13.DEC.2005 13:49:50

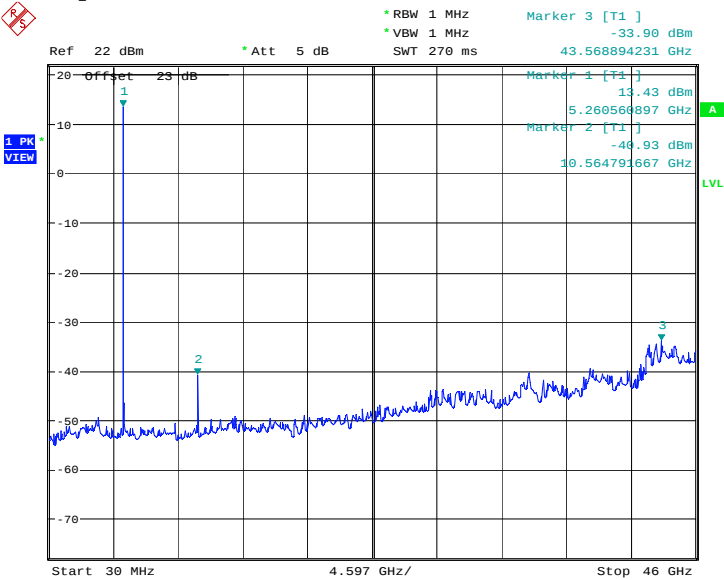
Band Edge Check, _Ch66, 5330MHz,

Band Edge Level (dBuV)	Signal Substitution Level (dB)	Emission Level (dBm/MHz)	Limit (dBm/MHz)
19.76	-56.59	-36.83	-27.0



Date: 13.DEC.2005 13:51:57

Full Span_ Conducted Emissions

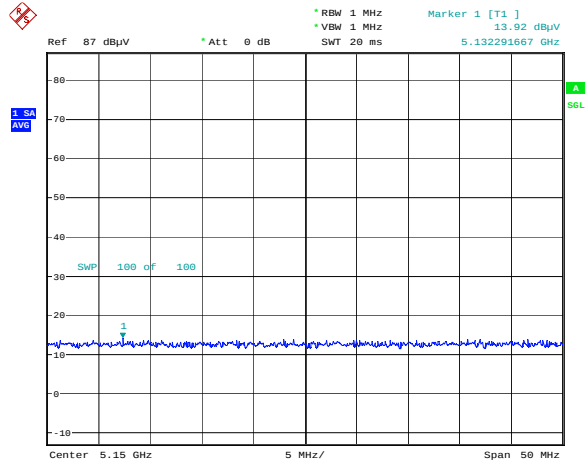


Date: 14.DEC.2005 09:09:36

15dBi Belair Patch Antenna

Band Edge Check, _Ch53, 5265MHz,

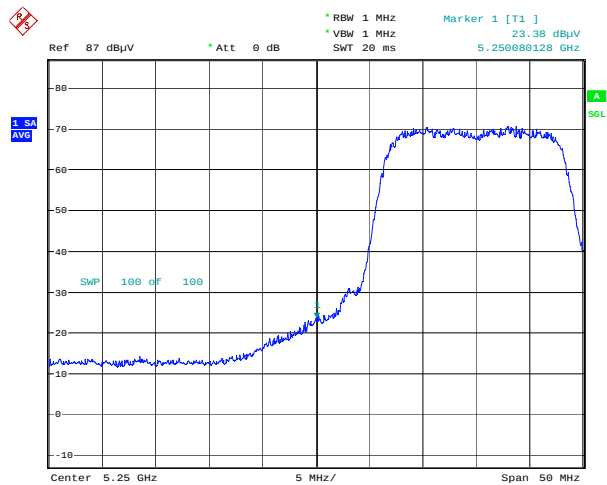
Band Edge Level (dBuV)	Signal Substitution Level (dB)	Emission Level (dBm/MHz)	Limit (dBm/MHz)
13.92	-56.59	-42.67	-27.0



Date: 6.DEC.2005 10:40:33

Band Edge Check, _Ch53, 5265MHz,

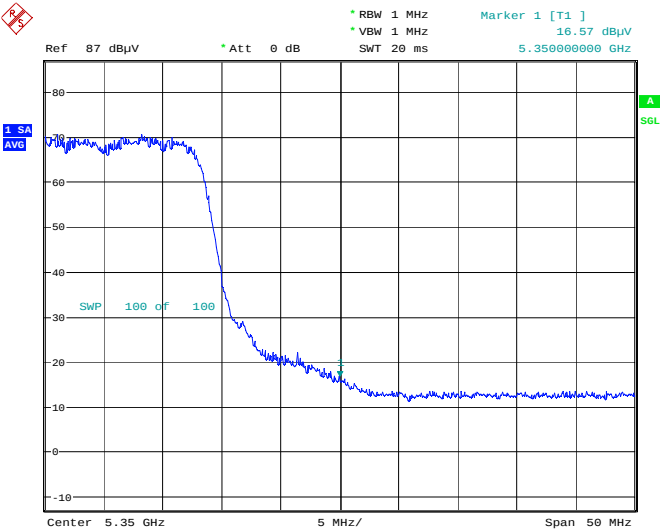
Band Edge Level (dBuV)	Signal Substitution Level (dB)	Emission Level (dBm/MHz)	Limit (dBm/MHz)
23.38	-56.59	-33.21	-27.0



Date: 6.DEC.2005 10:41:16

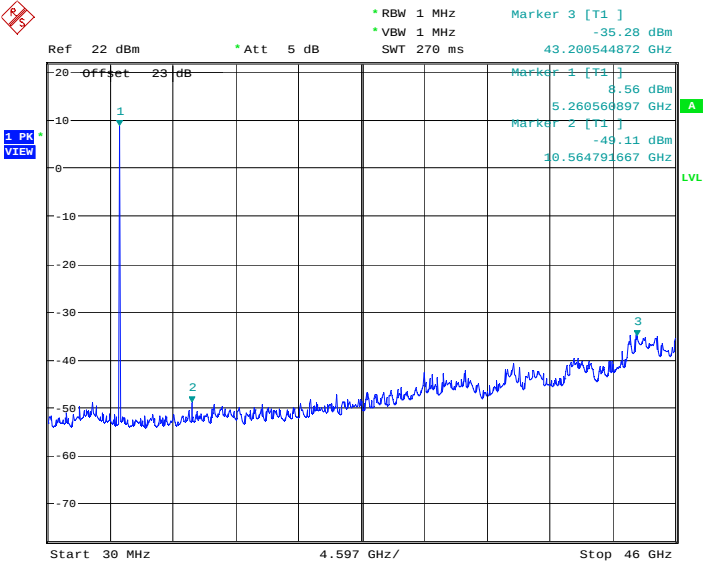
Band Edge Check, _Ch66, 5330MHz,

Band Edge Level (dBuV)	Signal Substitution Level (dB)	Emission Level (dBm/MHz)	Limit (dBm/MHz)
16.57	-56.59	-40.02	-27.0



Date: 6.DEC.2005 10:39:29

Full Span_ Conducted Emissions

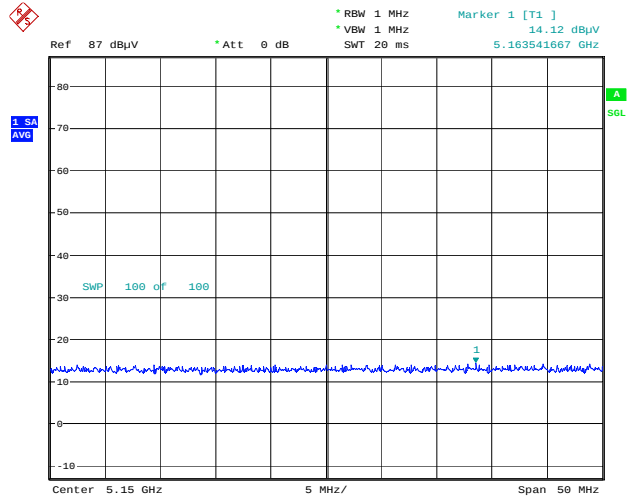


Date: 14.DEC.2005 09:11:17

23dBi H&S Antenna

Band Edge Check, _Ch53, 5265MHz,

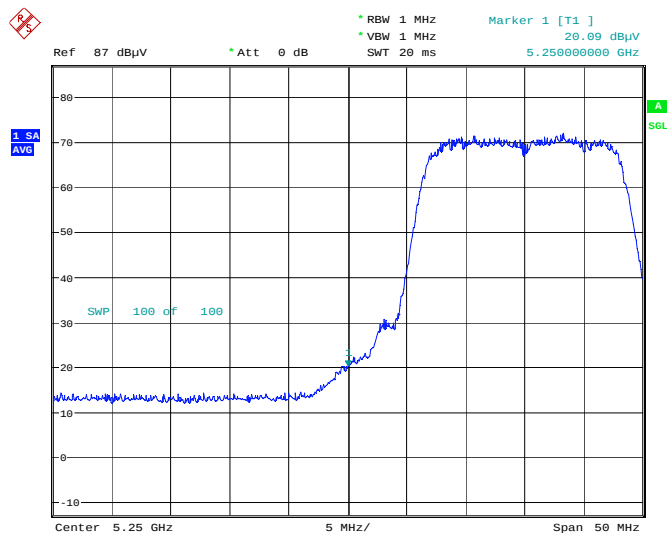
Band Edge Level (dBuV)	Signal Substitution Level (dB)	Emission Level (dBm/MHz)	Limit (dBm/MHz)
14.12	-56.59	-42.47	-27.0



Date: 6.DEC.2005 11:35:47

Band Edge Check, _Ch53, 5265MHz,

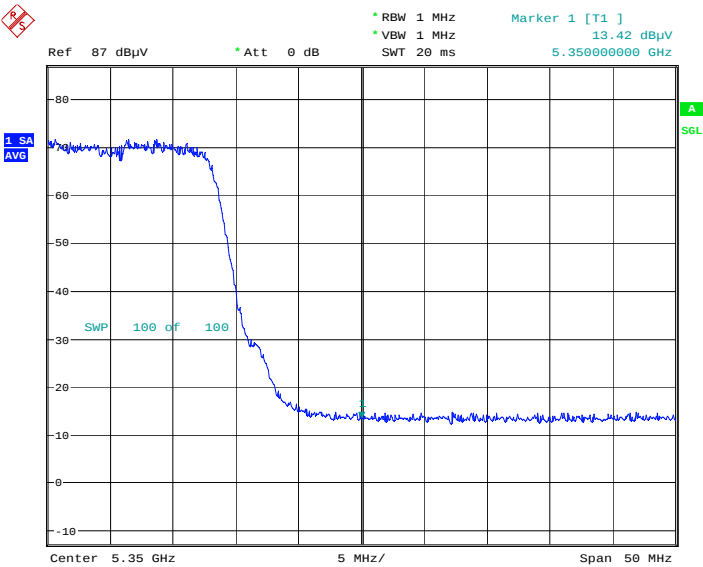
Band Edge Level (dBuV)	Signal Substitution Level (dB)	Emission Level (dBm/MHz)	Limit (dBm/MHz)
20.09	-56.59	-36.5	-27.0



Date: 6.DEC.2005 11:36:27

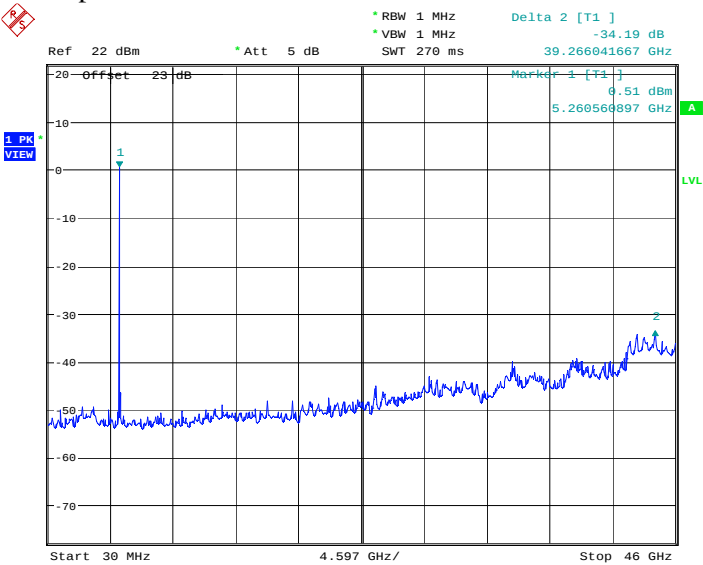
Band Edge Check, _Ch66, 5330MHz,

Band Edge Level (dBuV)	Signal Substitution Level (dB)	Emission Level(dBm/MHz)	Limit (dBm/MHz)
13.42	-56.59	-43.17	-27.0



Date: 6.DEC.2005 11:40:06

Full Span_ Conducted Emissions

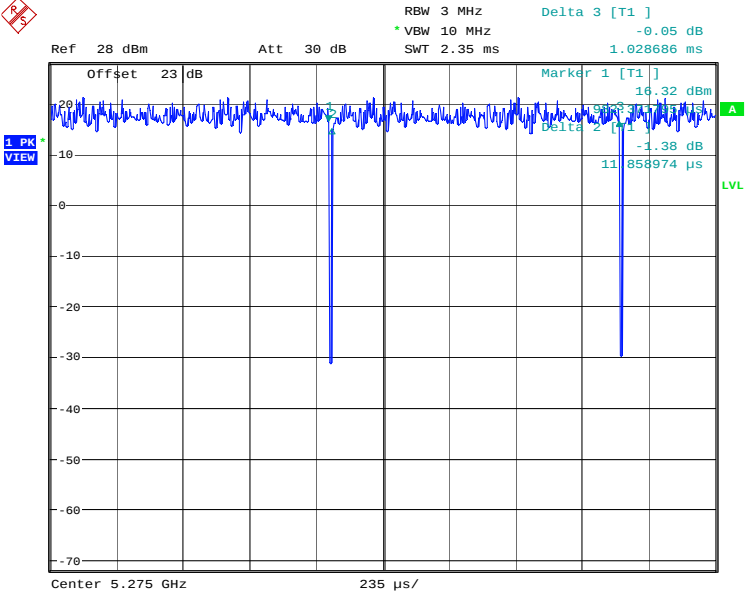


Date: 14.DEC.2005 09:12:28

Radiated Emissions Test Data

Test Date: Nov. 2, 2005										
Engineer's Name: Xu Jin										
Tested as per: Table Top										
Mains Input Voltage: 120VAC							Mains Input Frequency: 60Hz			
Test Distance (meters): 3							Dome: 1			
Freq. (MHz)	Ant.	Po l. V/ H	RCVD Signal (dBμV)	Ant. Factor (dB)	Amp. Gain (dB)	Cable Loss (dB)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
115.4000	BC2	H	14.8	11.4	N/A	1.8	28.0	43.5	15.5	Q-Peak
115.4000	BC2	V	18.3	12.1	N/A	1.8	32.2	43.5	11.3	Q-Peak
375.0200	LP1	V	17.2	15.5	N/A	2.9	35.5	46.0	10.5	Q-Peak
375.0200	LP1	H	21.2	15.7	N/A	2.9	39.7	46.0	6.3	Q-Peak
561.6000	LP1	V	14.6	19.0	N/A	3.3	36.9	46.0	9.1	Q-Peak
561.1000	LP1	H	17.3	19.7	N/A	3.3	40.3	46.0	5.8	Q-Peak
795.4000	LP1	V	13.1	21.4	N/A	4.3	38.8	46.0	7.3	Q-Peak
795.4000	LP1	H	10.6	21.9	N/A	4.3	36.8	46.0	9.2	Q-Peak
808.9000	LP1	V	10.4	21.5	N/A	4.3	36.2	46.0	9.8	Q-Peak
808.9000	LP1	H	9.8	22.1	N/A	4.3	36.2	46.0	9.8	Q-Peak
825.4000	LP1	V	13.4	21.8	N/A	4.3	39.5	46.0	6.5	Q-Peak
825.4000	LP1	H	15.3	22.6	N/A	4.3	42.2	46.0	3.8	Q-Peak
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, 10Hz VBW, Peak=1.0MHz RBW, 1.0MHz VBW										

Duty Cycle



Date: 2.NOV.2005 15:25:04

Duty Cycle=(1-11.9μs/1029μs)×100%=98.84%

Section 5. Spurious Emissions within Restricted Bands**Criteria: Clause 15.407(b)(7)**

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

Criteria: 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:	1,2,3,4,5,6,	Temperature:	22 °C
Date:	Oct. 28 2005	Humidity:	50 %
Modification State:	0	Tester:	Xu Jin
		Laboratory:	Ottawa

Test Result: Complies

Test Data: See attached plots and tables

Note:

Emissions were searched for all possible antenna configurations, and for low, medium and high frequencies

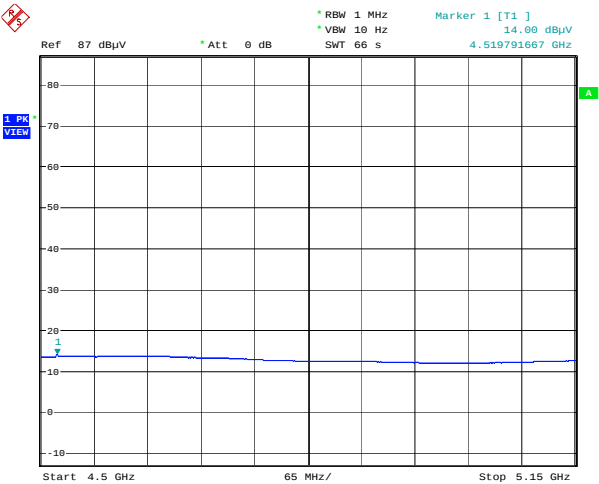
Only worst case was reported.

Restricted Band Check

10dBi Maxrad Antenna

4.5GHz-5.15GHz Range -----Ch53, 5265MHz

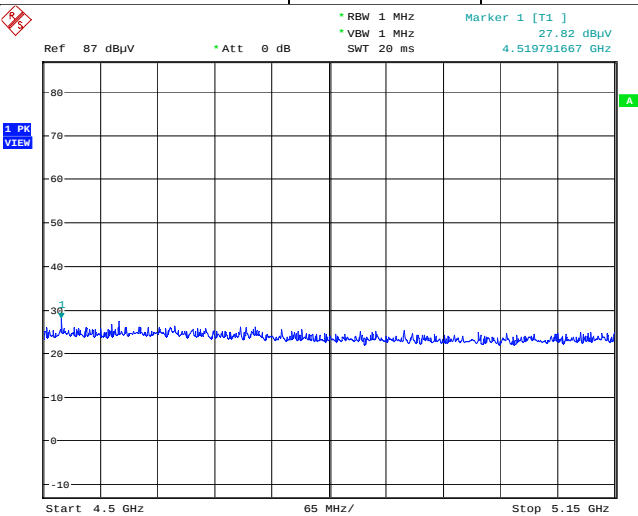
Band Edge Level (Avg) (dBμv)	Af (dB/m)	Cable Loss (dB)	Emission Level (dBμv/m)	Limit (dBμv/m)
14.00	32.66	4	50.66	54



Date: 6.DEC.2005 10:10:58

4.5GHz-5.15GHz Range -----Ch53, 5265MHz

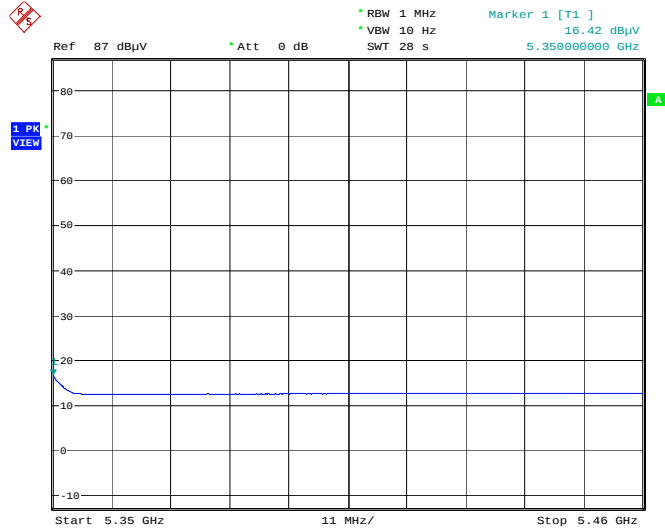
Band Edge Level (PK) (dBμv)	Af (dB/m)	Cable Loss(dB)	Emission Level (dBμv/m)	Limit (dBμv/m)
27.82	32.66	4	64.48	74



Date: 6.DEC.2005 10:11:37

5.35GHz-5.46GHz Range---Ch66, 5330MHz

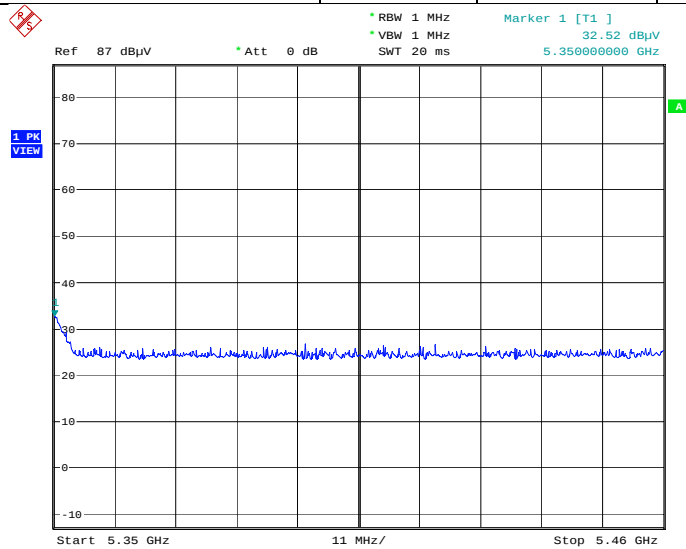
Band Edge Level (Avg) (dB μ v)	Af (dB/m)	Cable Loss (dB)	Emission Level (dB μ v/m)	Limit (dB μ v/m)
16.42	32.66	4	53.08	54



Date: 6.DEC.2005 10:08:37

5.35GHz-5.46GHz Range---Ch66, 5330MHz

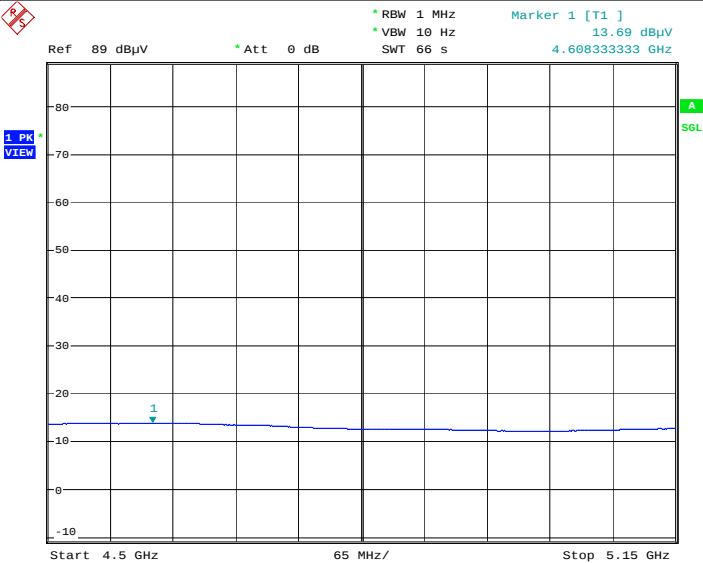
Band Edge Level (PK) (dB μ v)	Af (dB/m)	Cable Loss (dB)	Emission Level (dB μ v/m)	Limit (dB μ v/m)
32.52	32.66	4	69.18	74



Date: 6.DEC.2005 10:07:17

4dBi Maxrad Antenna
4.5GHz-5.15GHz Range -----Ch53, 5265MHz

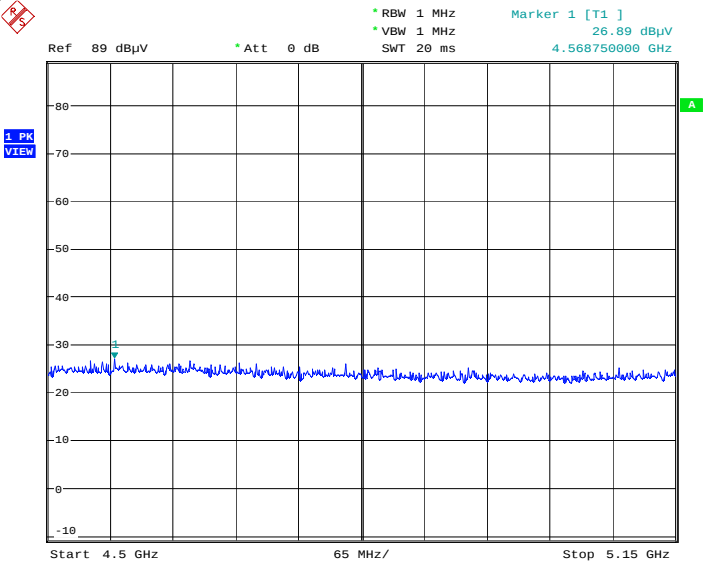
Band Edge Level (Avg) (dBμV)	Af (dB/m)	Cable Loss (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)
13.69	32.66	4	50.35	54



Date: 13.DEC.2005 14:03:56

4.5GHz-5.15GHz Range -----Ch53, 5265MHz

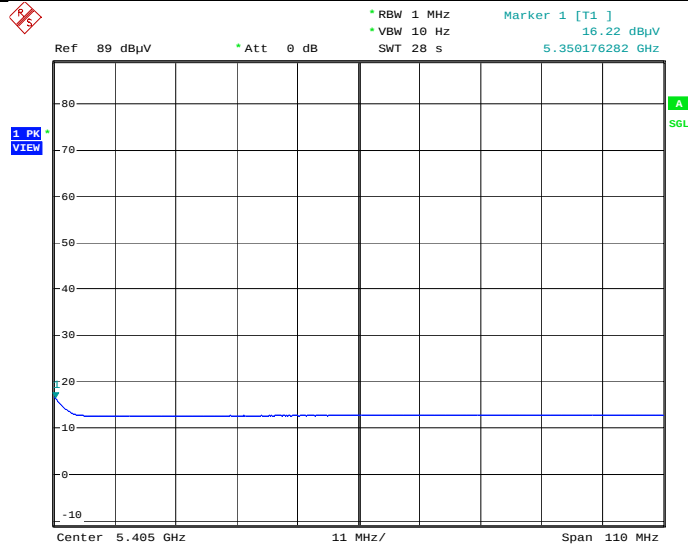
Band Edge Level (PK) (dBμV)	Af (dB/m)	Cable Loss(dB)	Emission Level (dBμV/m)	Limit (dBμV/m)
26.89	32.66	4	63.55	74



Date: 13.DEC.2005 14:04:33

5.35GHz-5.46GHz Range---Ch66, 5330MHz

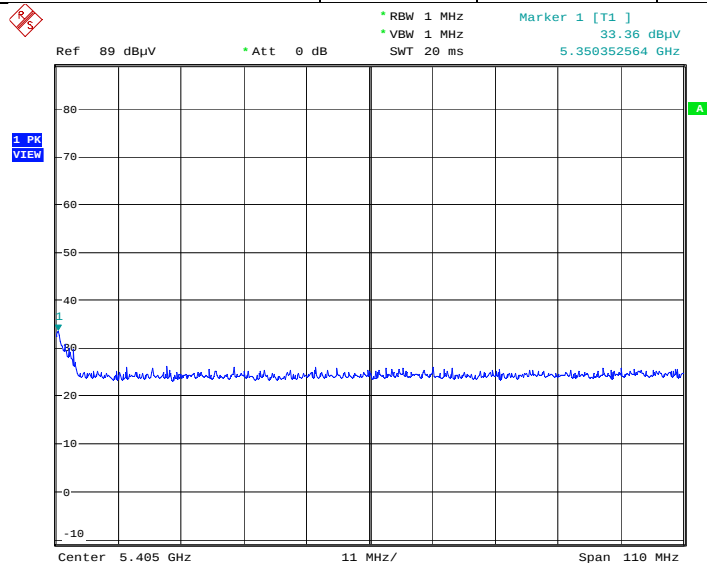
Band Edge Level (Avg) (dB μ v)	Af (dB/m)	Cable Loss (dB)	Emission Level (dB μ v/m)	Limit (dB μ v/m)
16.22	32.66	4	52.88	54



Date: 13.DEC.2005 15:49:04

5.35GHz-5.46GHz Range---Ch66, 5330MHz

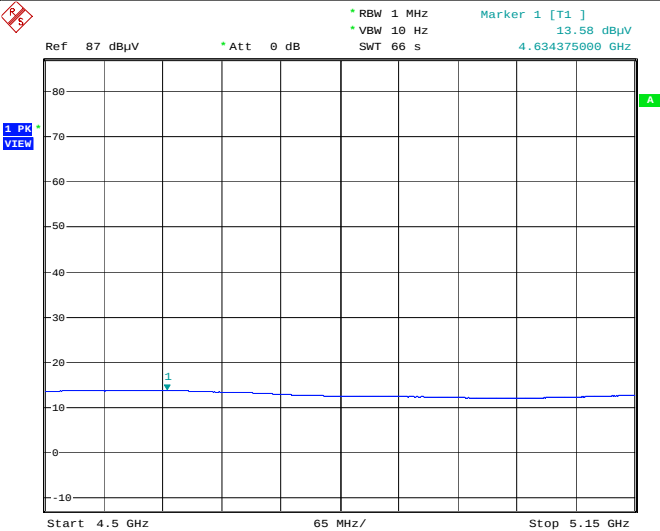
Band Edge Level (PK) (dB μ v)	Af (dB/m)	Cable Loss (dB)	Emission Level (dB μ v/m)	Limit (dB μ v/m)
33.22	32.66	4	69.88	74



Date: 13.DEC.2005 15:49:40

15dBi Belair Patch Antenna
4.5GHz-5.15GHz Range---Ch53, 5265MHz

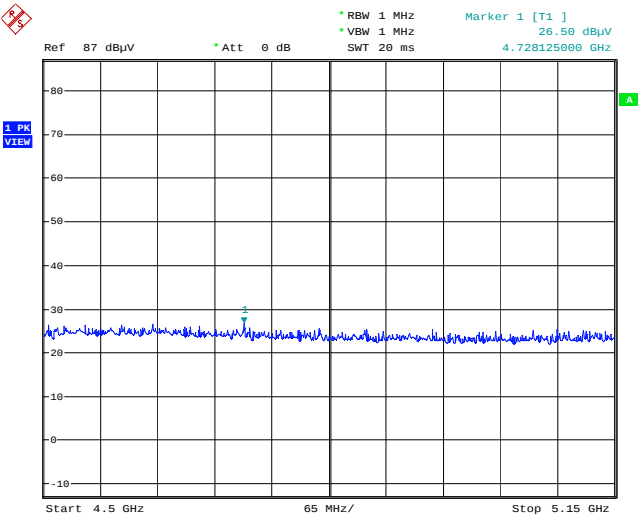
Band Edge Level (Avg) (dBμV)	Af (dB/m)	Cable Loss (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)
13.58	32.66	4	50.24	54



Date: 6.DEC.2005 11:03:14

4.5GHz-5.15GHz Range---Ch53, 5265MHz

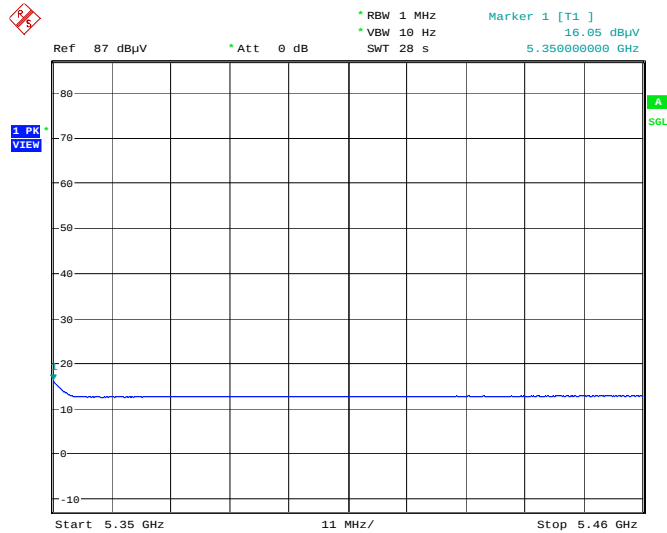
Band Edge Level (PK) (dBμV)	Af (dB/m)	Cable Loss (dB)	Emission Level (dBμV/m)	Limit (dBμV/m)
26.50	32.66	4	63.16	74



Date: 6.DEC.2005 10:54:40

5.35GHz-5.46GHz Range --- Ch66, 5330MHz

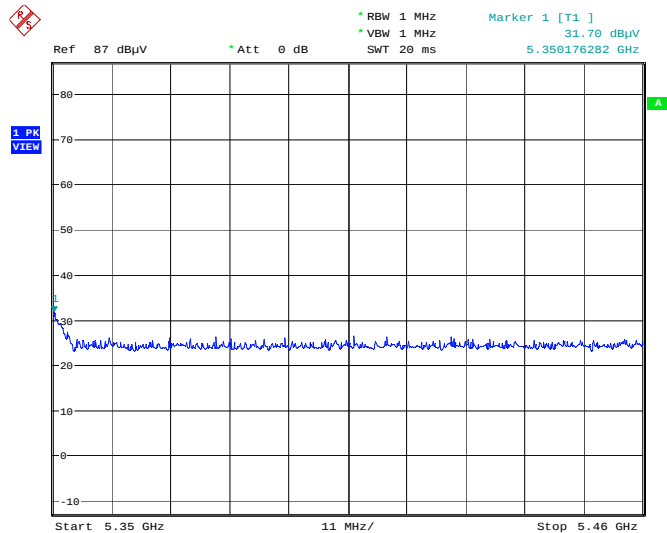
Band Edge Level (Avg) (dB μ v)	Af (dB/m)	Cable Loss (dB)	Emission Level (dB μ v/m)	Limit (dB μ v/m)
16.05	32.66	4	52.71	54



Date: 6.DEC.2005 11:04:44

5.35GHz-5.46GHz Range --- Ch66, 5330MHz

Band Edge Level (PK) (dB μ v)	Af (dB/m)	Cable Loss(dB)	Emission Level (dB μ v/m)	Limit (dB μ v/m)
31.70	32.66	4	68.36	74

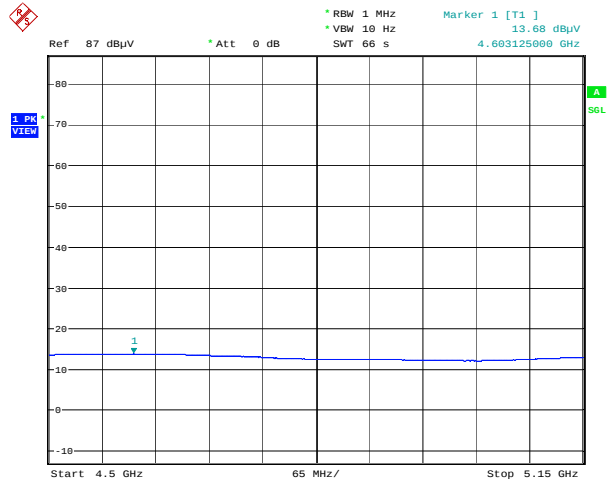


Date: 6.DEC.2005 11:05:48

23dBi Antenna

4.5GHz-5.15GHz Range---Ch53, 5265MHz

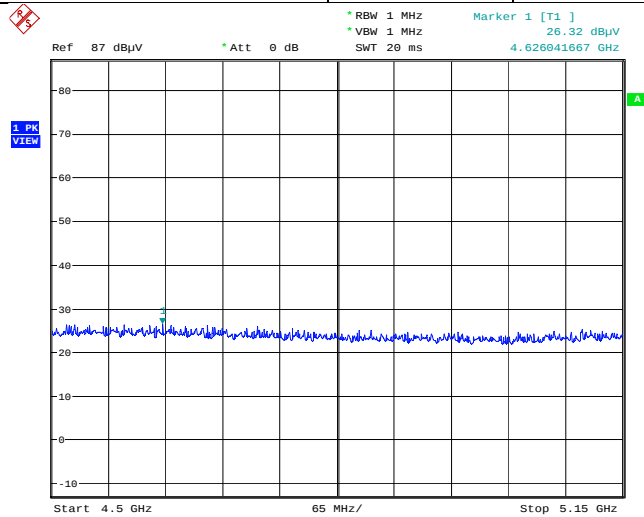
Band Edge Level (Avg) (dB μ V)	Af (dB/m)	Cable Loss (dB)	Emission Level (dB μ V/m)	Limit (dB μ V/m)
13.68	32.66	4	50.34	54



Date: 6.DEC.2005 11:24:21

4.5GHz-5.15GHz Range---Ch53, 5265MHz

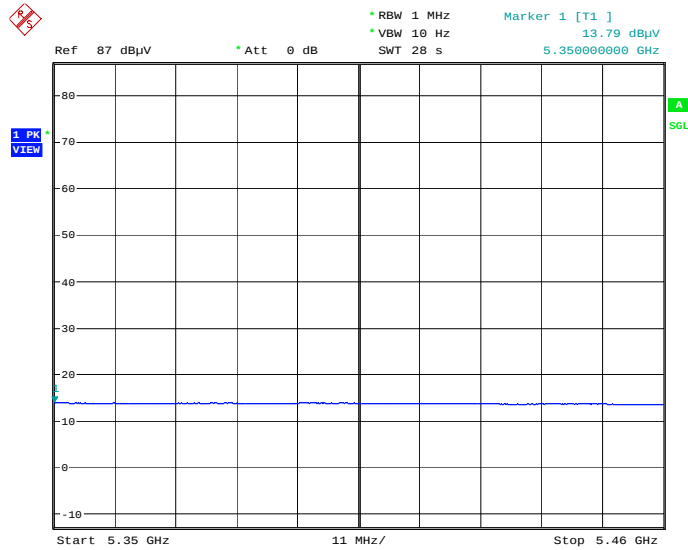
Band Edge Level (PK) (dB μ V)	Af (dB/m)	Cable Loss(dB)	Emission Level (dB μ V/m)	Limit (dB μ V/m)
26.32	32.66	4	62.98	74



Date: 6.DEC.2005 11:22:20

5.35GHz-5.46GHz Range --- Ch66, 5330MHz

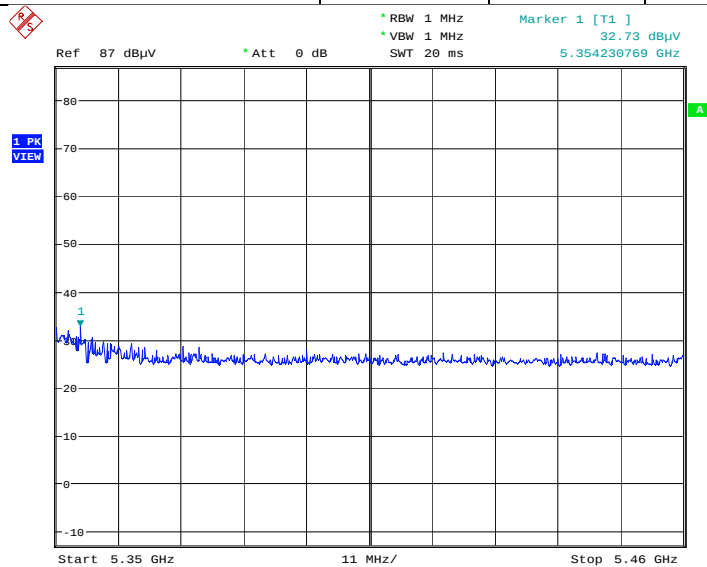
Band Edge Level (Avg) (dB μ v)	Af (dB/m)	Cable Loss (dB)	Emission Level (dB μ v/m)	Limit (dB μ v/m)
13.79	32.66	4	50.45	54



Date: 6.DEC.2005 11:19:24

5.35GHz-5.46GHz Range --- Ch66, 5330MHz

Band Edge Level (PK) (dB μ v)	Af (dB/m)	Cable Loss (dB)	Emission Level (dB μ v/m)	Limit (dB μ v/m)
32.73	32.66	4	69.39	74



Date: 6.DEC.2005 11:18:13

Section 6. Peak Power Spectrum Density**Criteria: Clause 15.407(a)(2)**

In addition, the peak power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Conditions:

Sample Number:	1,2	Temperature:	22 °C
Date:	Oct.25, 2005	Humidity:	45 %
Modification State:	0	Tester:	Xu Jin
		Laboratory:	Ottawa

Test Method: Test was conducted according to FCC Public Notice: DA 02-2138

Test Result: Complies

Test Data: See Attached Tables and Graphics

**10dBi and 4dBi Maxrad Antenna
PPSD Measurement Data (dBm/MHz)**

Frequency (MHz)		6 Mb/s	54 Mb/s
5265	10dBi	4.43	4.46
	4dBi	7.18	6.89
5275 10dBi & 4dBi		7.80	7.71
5295 10dBi & 4dBi		7.63	7.33
5325 10dBi & 4dBi		7.91	7.95
5330	10dBi	4.40	4.56
	4dBi	5.20	5.33

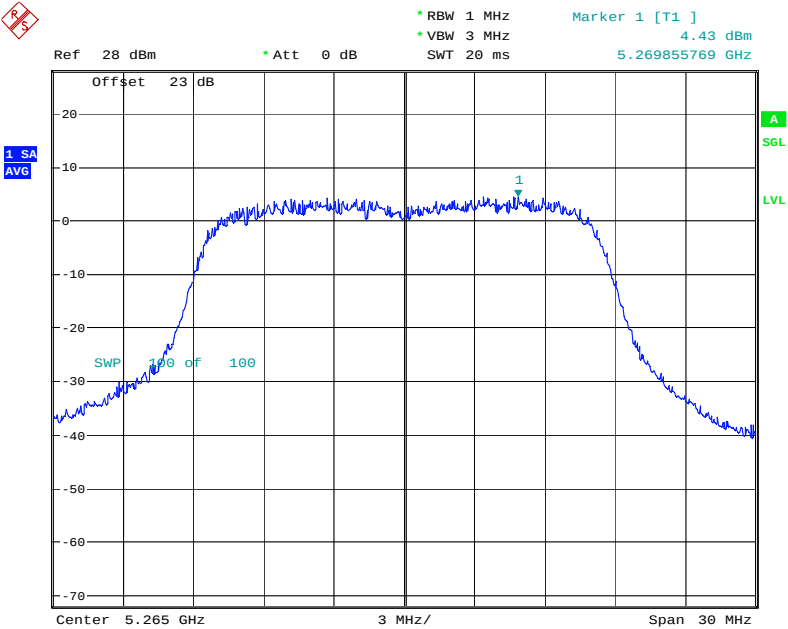
Manufacturer has declared there is 1dB cable loss between the radio module and antenna connector.

The Maximum PPSD Value for 10dBi & 4dBi Maxrad antenna
=7.95dBm/MHz-1dB=6.95dBm/MHz

Limit:

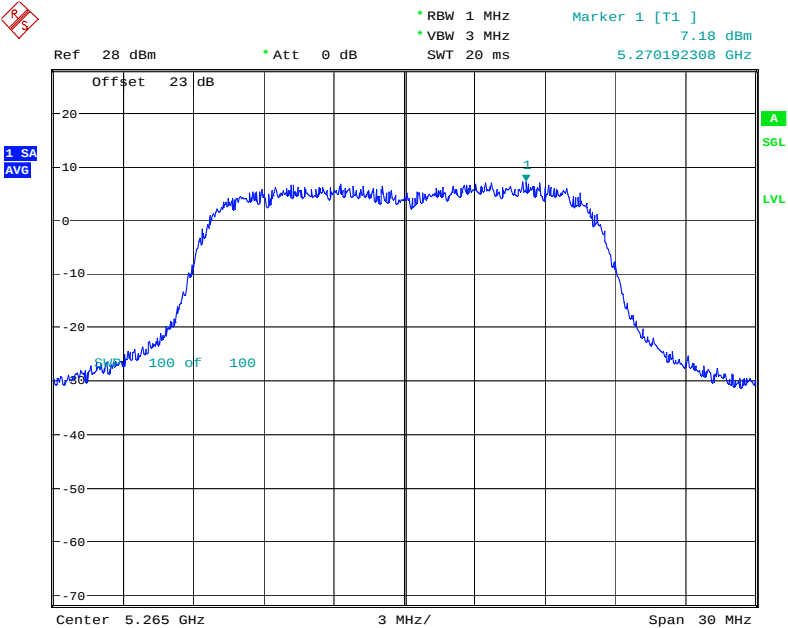
- (1). Conducted PPSD Limit for 10dBi Maxrad Antenna
11Bm/MHz -(10dBi-6dBi)=7dBm/MHz
- (2). Conducted PPSD Limit for 4dBi Maxrad Antenna
11dB/MHz

6Mb/s---5265MHz---10dBi Maxrad Antenna



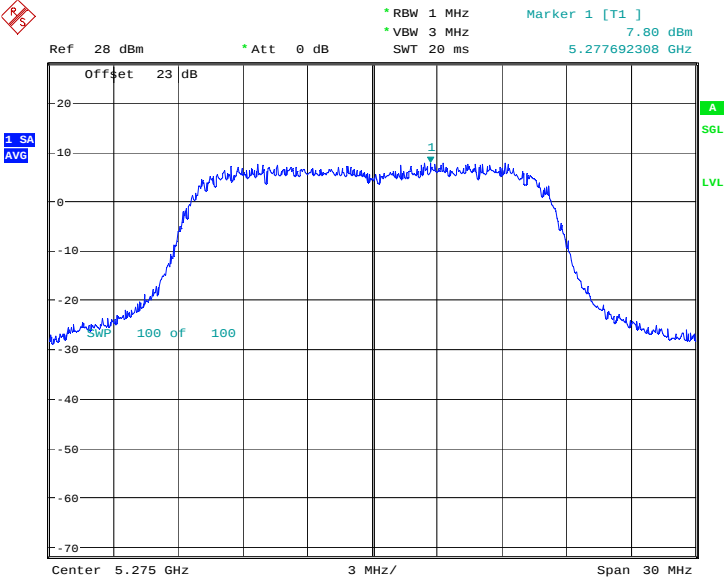
Date: 13.DEC.2005 11:50:12

6Mb/s---5265MHz---4dBi Maxrad Antenna



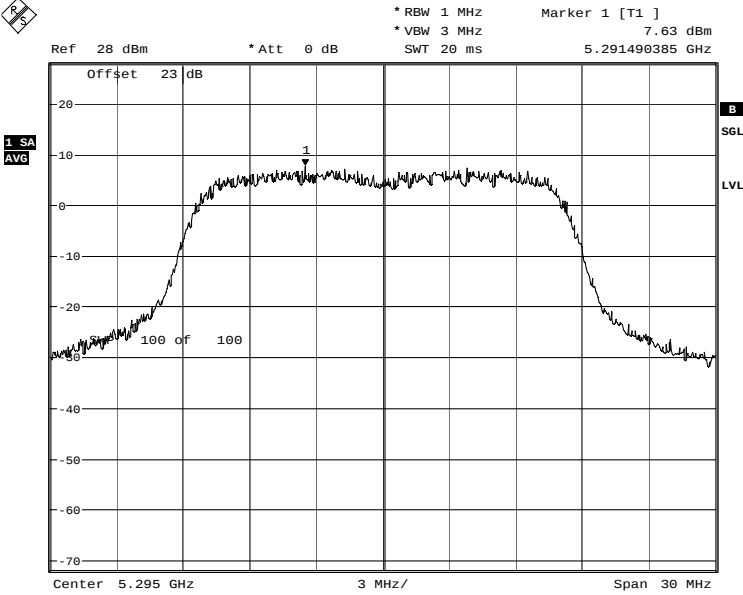
Date: 13.DEC.2005 12:01:09

6Mb/s---5275MHz



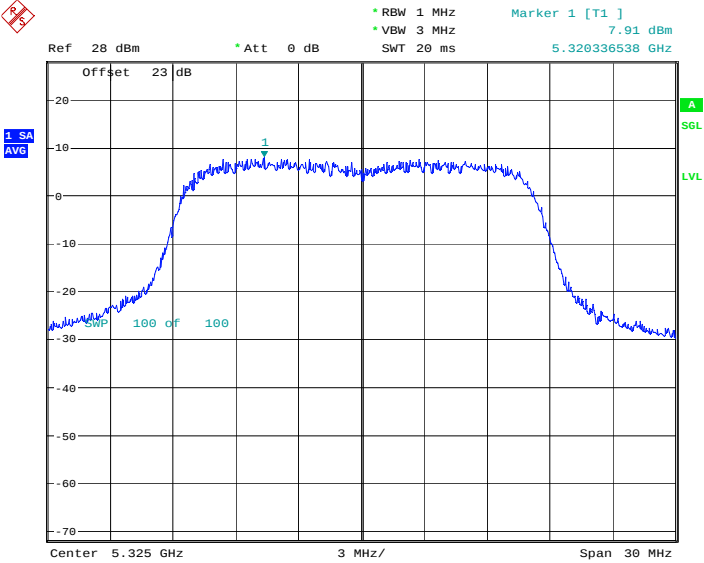
Date: 31.OCT.2005 11:06:15

6Mb/s---5295MHz



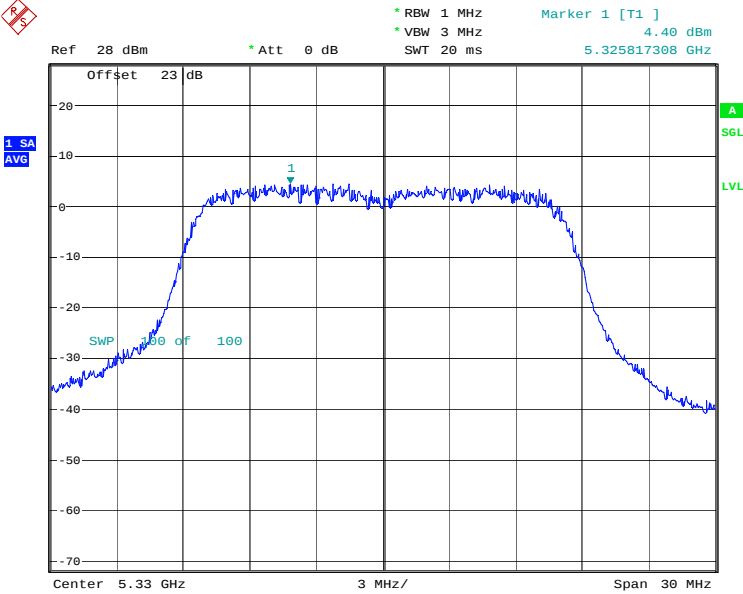
Date: 25.OCT.2005 10:07:14

6Mb/s---5325MHz



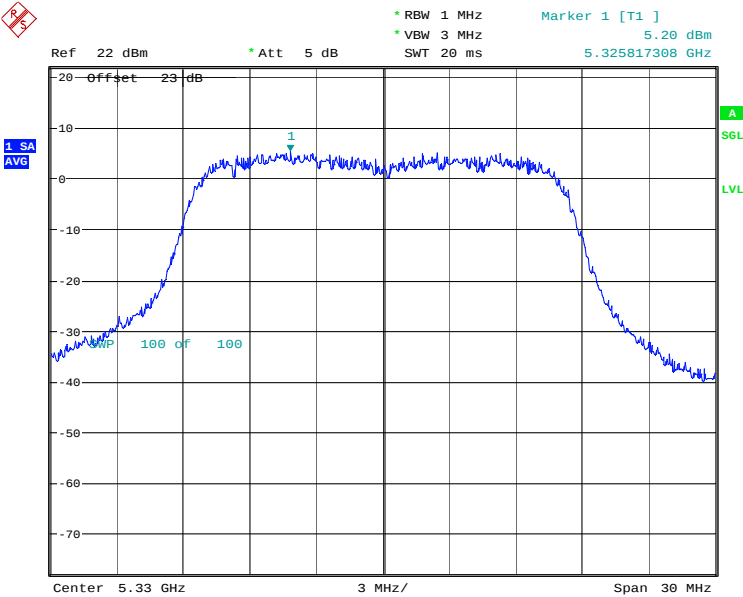
Date: 31.OCT.2005 11:09:30

6Mb/s---5330MHz---10dBi Maxrad Antenna



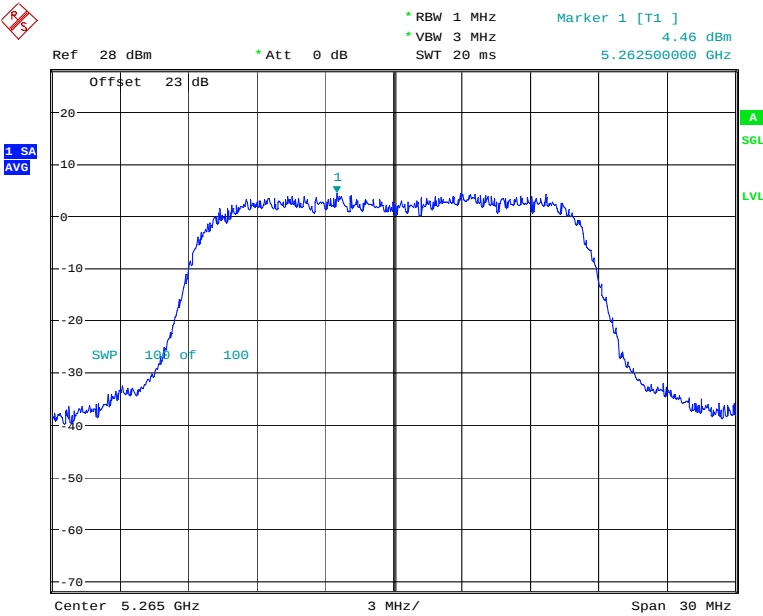
Date: 13.DEC.2005 11:48:27

6Mb/s-5330MHz---4dBi Maxrad Antenna



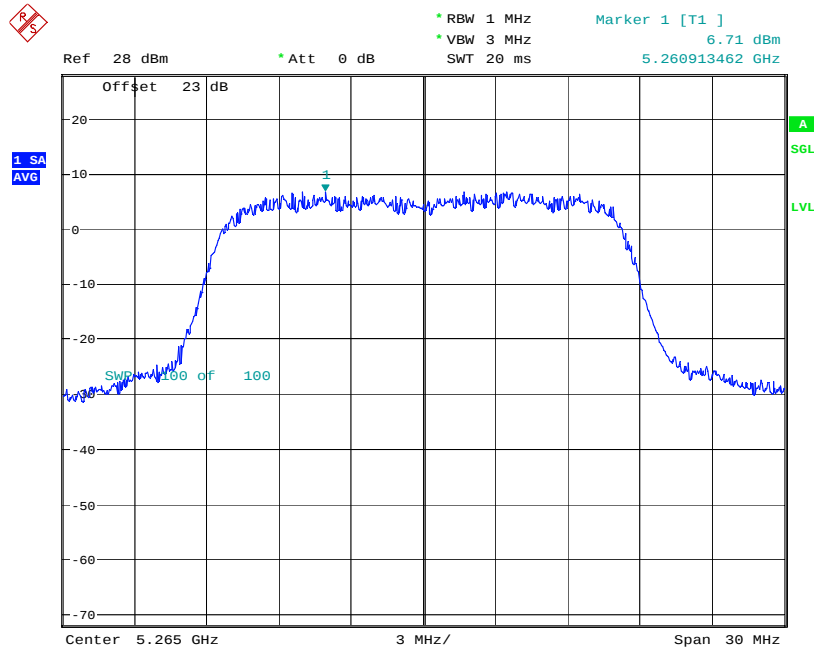
Date: 14.DEC.2005 09:19:24

54Mb/s---5265MHz---10dBi Maxrad Antenna



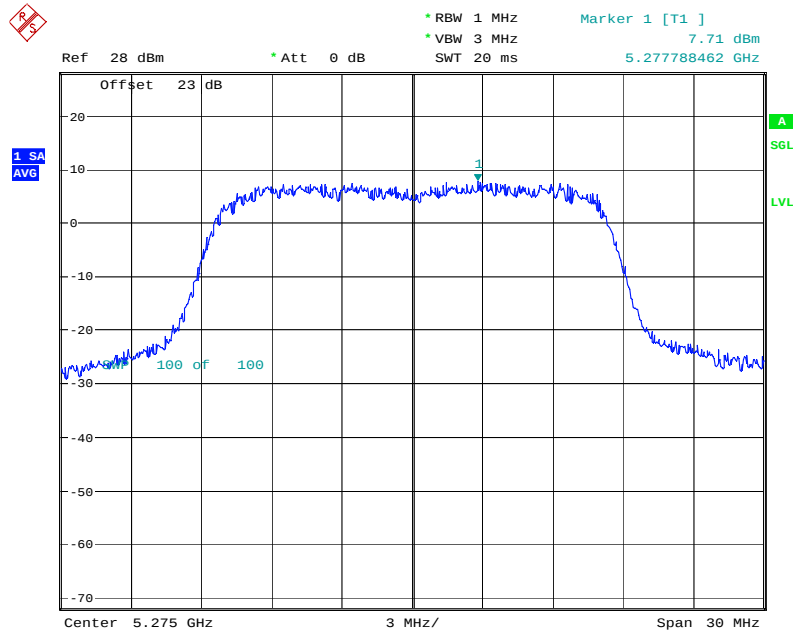
Date: 13.DEC.2005 11:51:05

54Mb/s---5265MHz---4dBi Maxrad Antenna



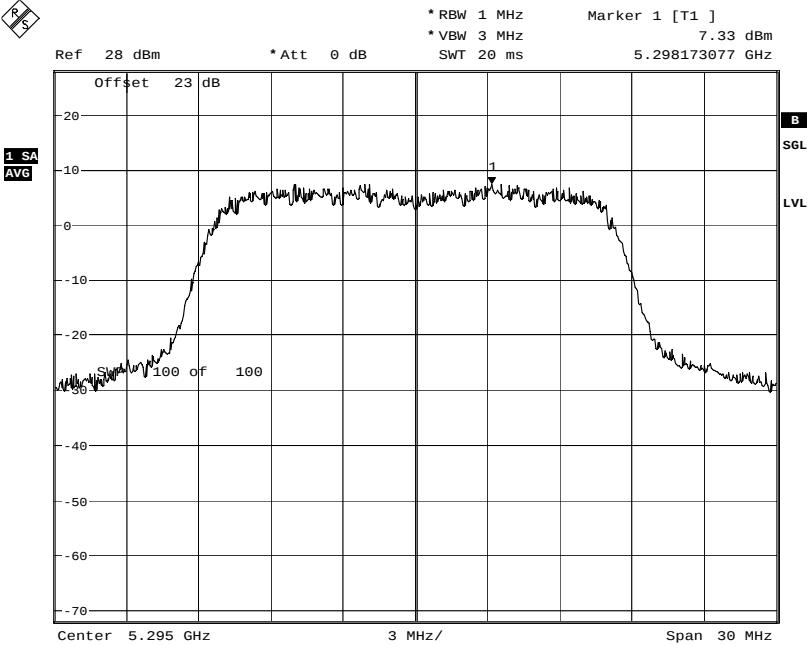
Date: 13.DEC.2005 12:02:02

54Mb/s---5275MHz



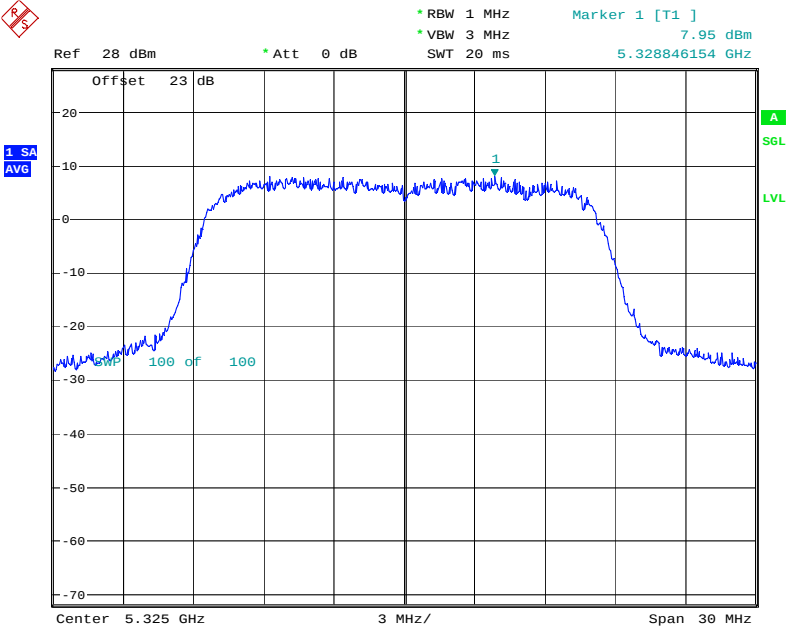
Date: 31.OCT.2005 11:07:44

54Mb/s---5295MHz



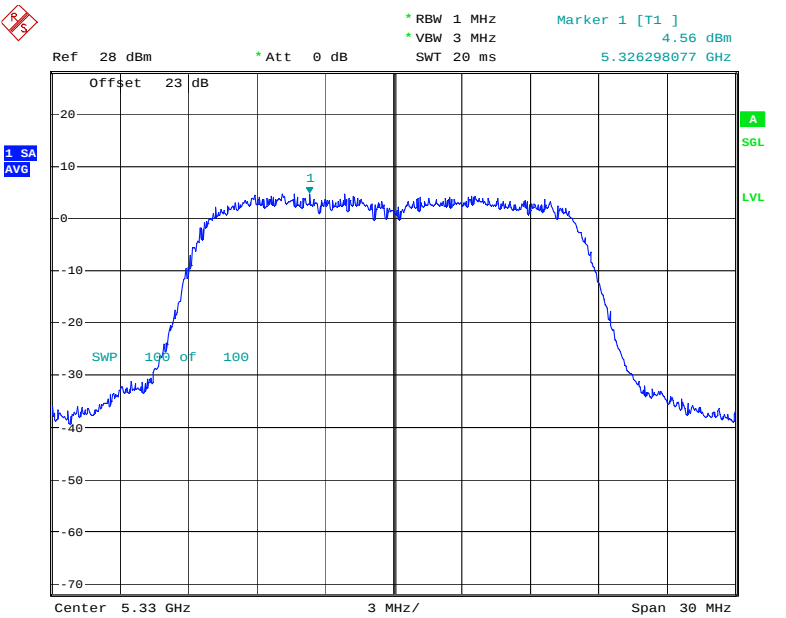
Date: 25.OCT.2005 10:08:45

54Mb/s---5325MHz



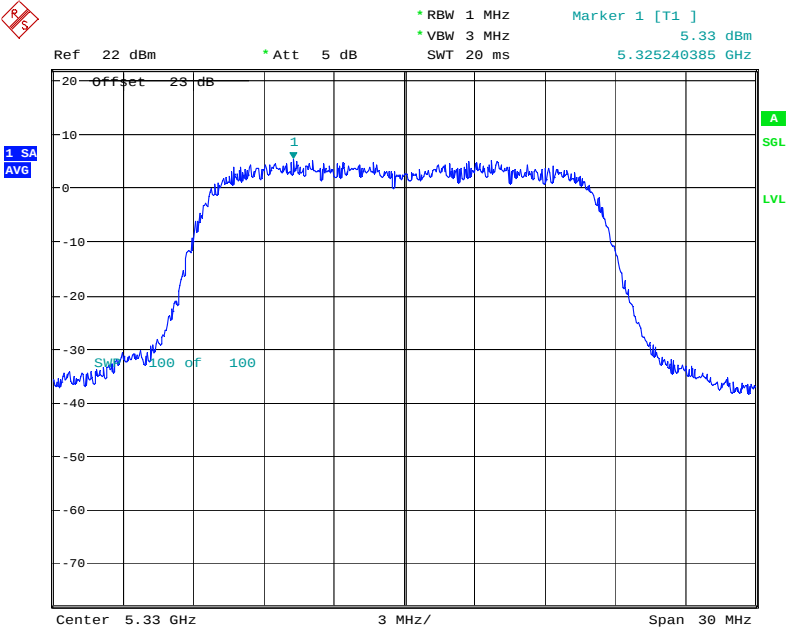
Date: 31.OCT.2005 11:11:23

54Mb/s---5330MHz---10dBi Maxrad Antenna



Date: 13.DEC.2005 11:49:20

54Mb/s---5330MHz---4dBi Maxrad Antenna



Date: 14.DEC.2005 09:28:19

15dBi Belair Patch Antenna**PPSD Measurement Data (dBm/MHz)**

Frequency (MHz)	Data Rate 6 Mb/s	Data Rate 54 Mb/s
5265	2.06	2.06
5275	2.74	2.83
5295	2.77	2.76
5325	2.99	2.94
5330	2.03	2.10

Manufacturer has declared there is 1dB cable loss between the radio module and antenna connector.

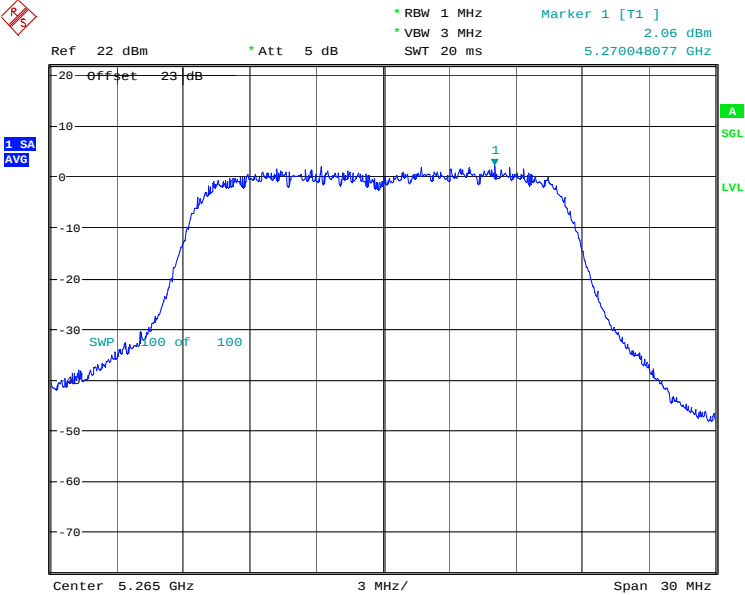
The Maximum PPSD Value

=2.99dBm/MHz-1dB=1.99dBm/MHz

Limit: Conducted PPSD Limit for 15dBi Belair Patch Antenna

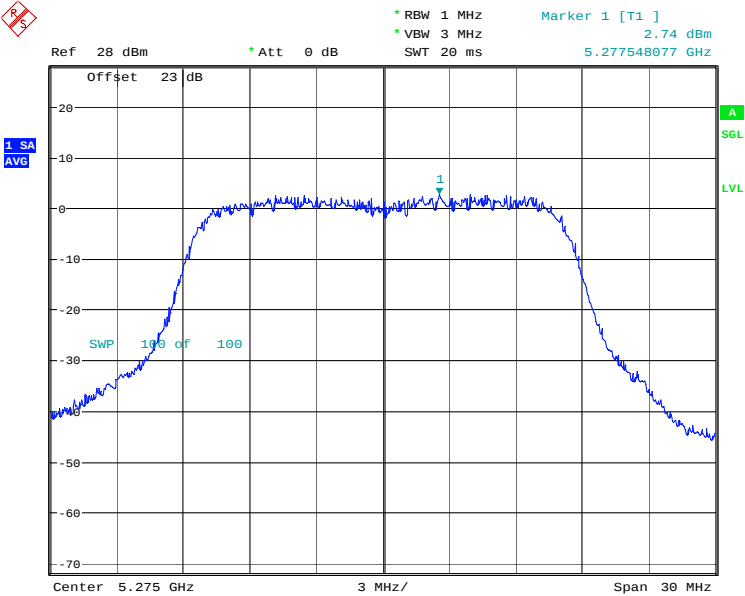
11Bm/MHz -(15dBi-6dBi)=2dBm/MHz

6Mb/s---5265MHz



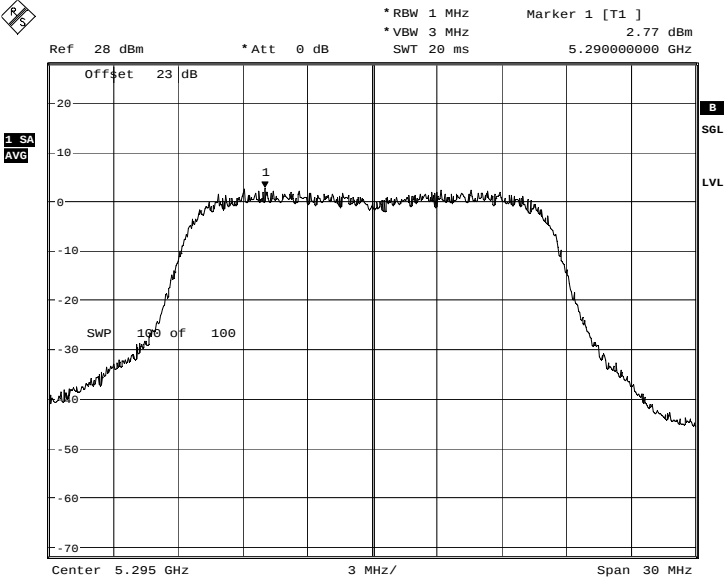
Date: 14.DEC.2005 10:09:50

6Mb/s---5275MHz



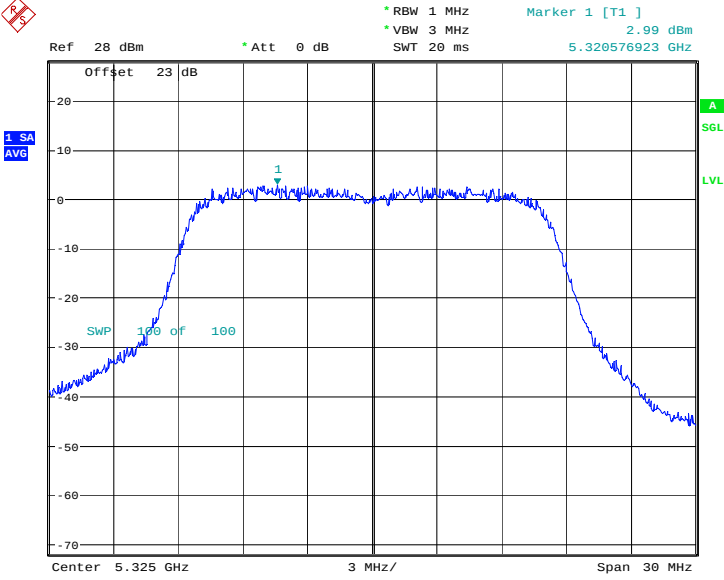
Date: 31.OCT.2005 11:34:14

6Mb/s---5295MHz



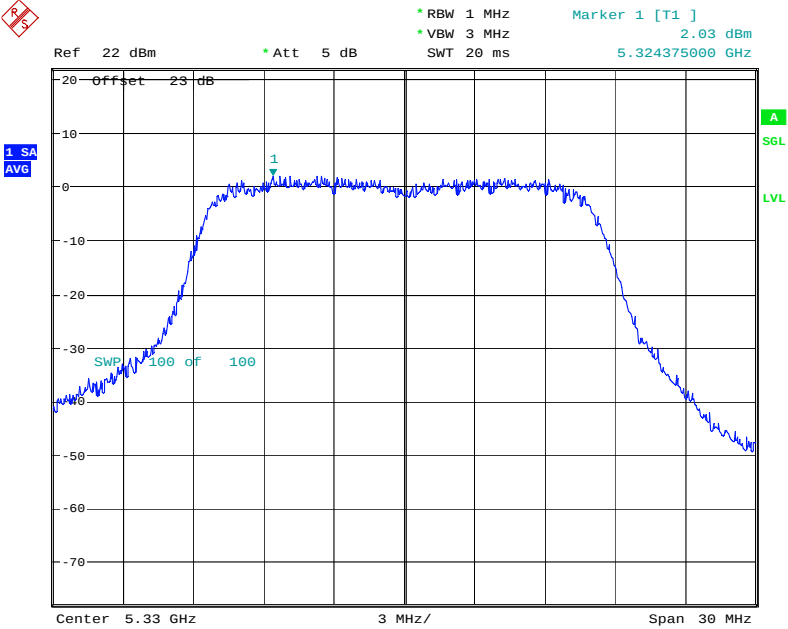
Date: 25.OCT.2005 10:27:52

6Mb/s---5325MHz



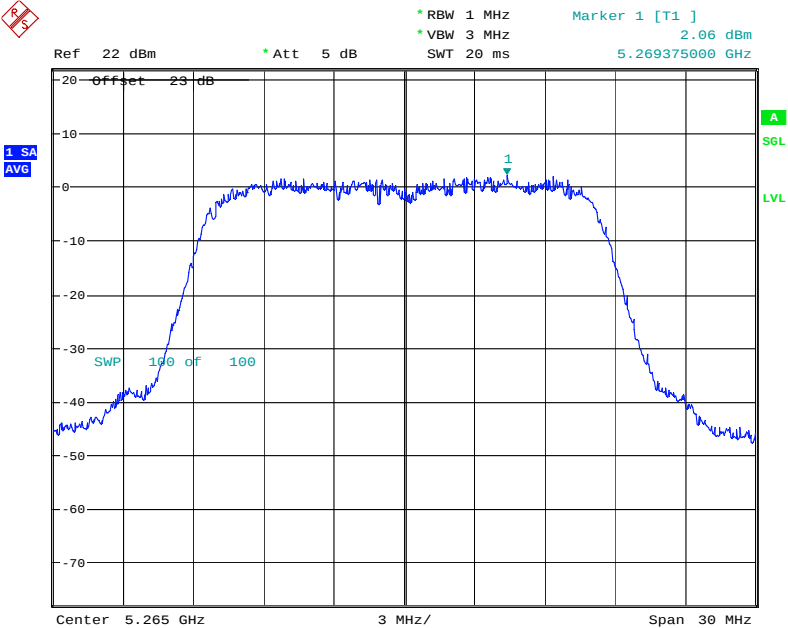
Date: 31.OCT.2005 11:42:26

6Mb/s---5330MHz



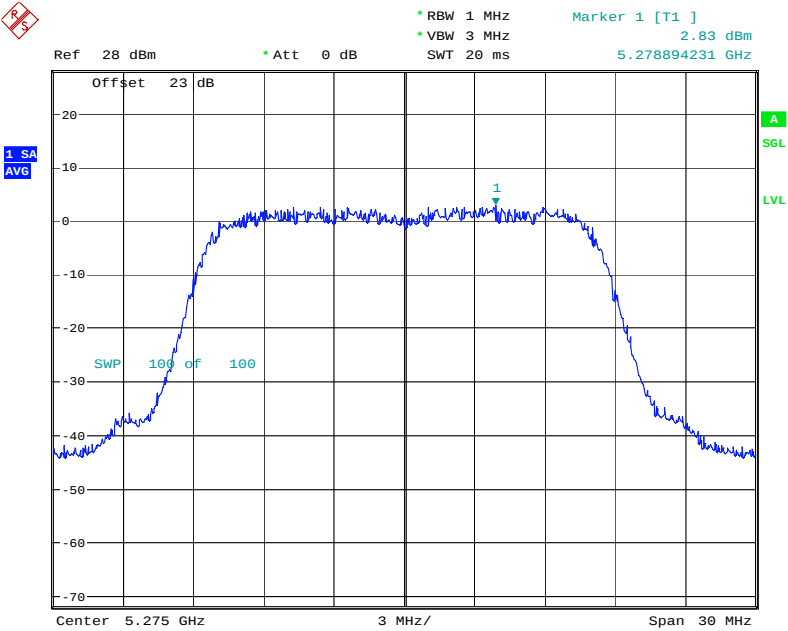
Date: 14.DEC.2005 10:02:14

54Mb/s---5265MHz



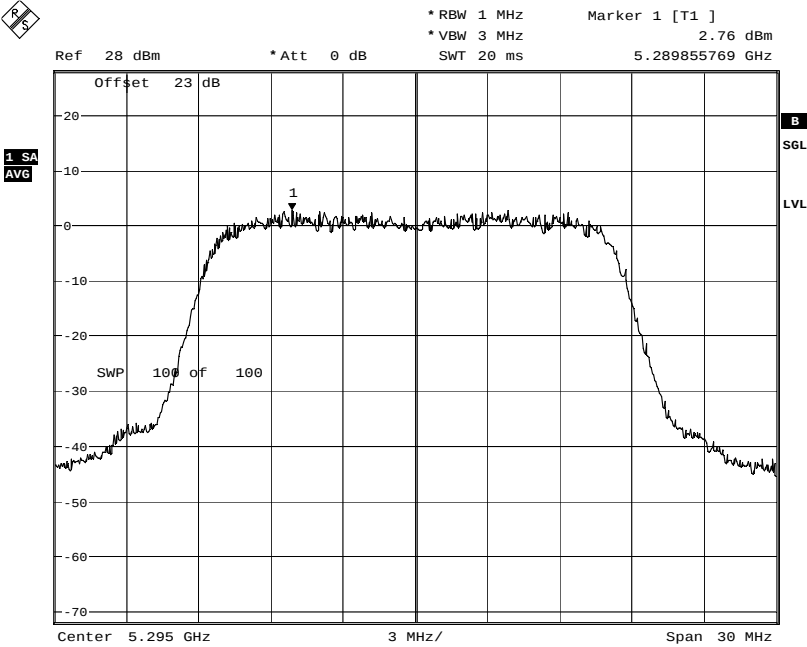
Date: 14.DEC.2005 09:44:54

54Mb/s---5275MHz



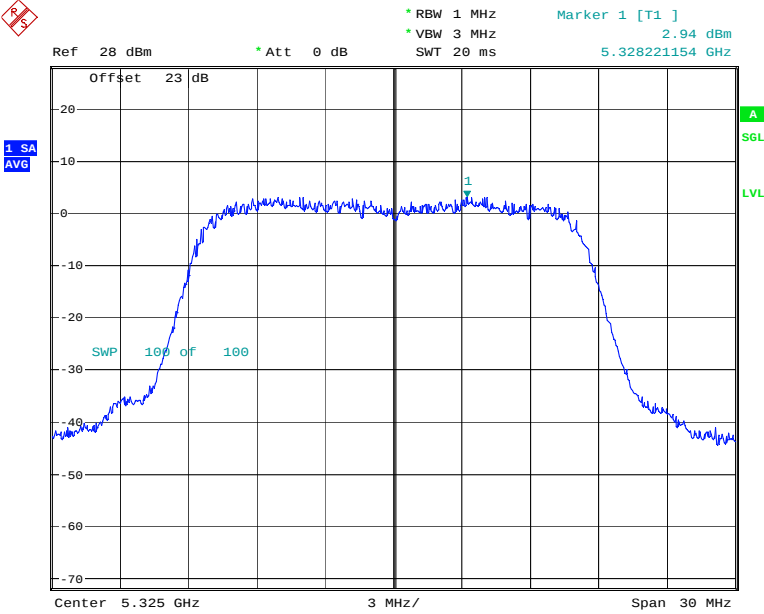
Date: 31.OCT.2005 11:40:28

54Mb/s---5295MHz



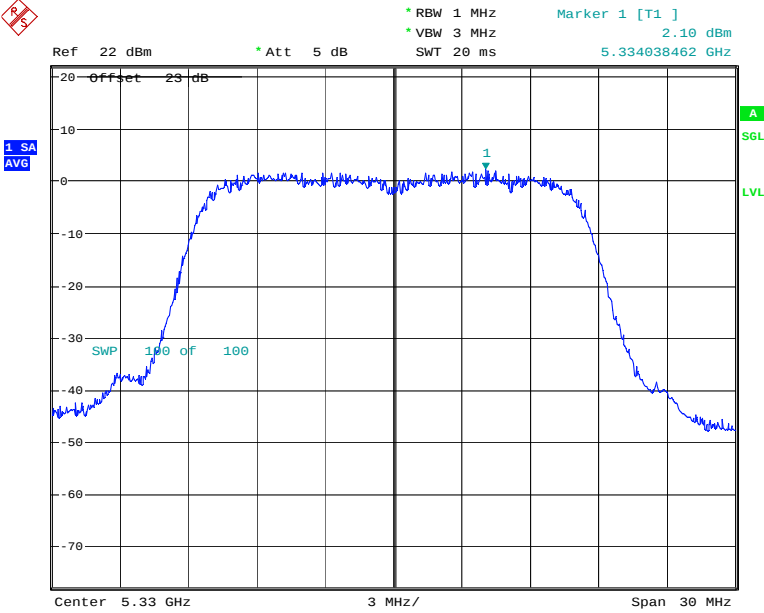
Date: 25.OCT.2005 10:28:45

54Mb/s---5325MHz



Date: 31.OCT.2005 11:44:27

54Mb/s---5330MHz



Date: 14.DEC.2005 09:53:22

23dBi H&S Antenna**PPSD Measurement Data (dBm/MHz)**

Frequency (MHz)	Data Rate 6 Mb/s	Data Rate 54 Mb/s
5265	-5.57	-5.09
5275	-5.74	-5.31
5295	-5.17	-5.26
5325	-5.28	-5.01
5330	-5.51	-5.34

Manufacturer has declared there is 1dB cable loss between the radio module and antenna connector.

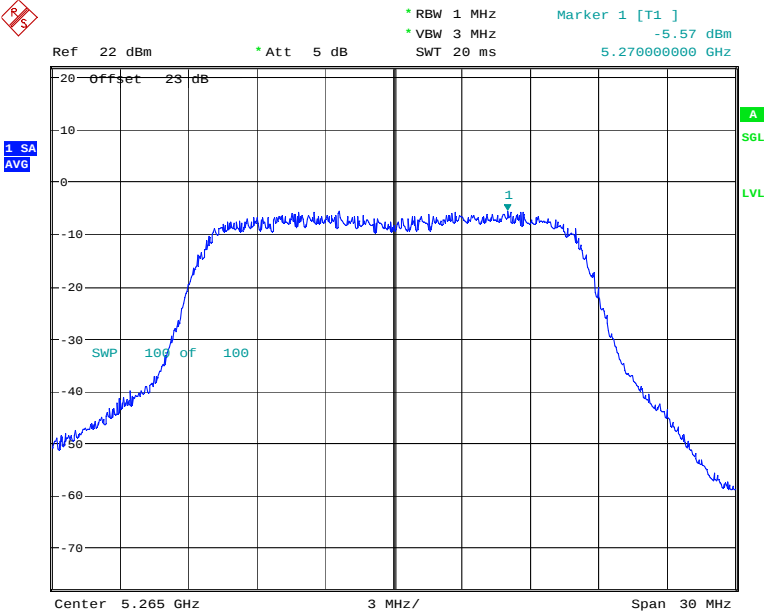
The Maximum PSD Value

= -5.01dBm/MHz - 1dB = -6.01dBm/MHz

Limit: Conducted PSD Limit for 23dBi H&S Antenna

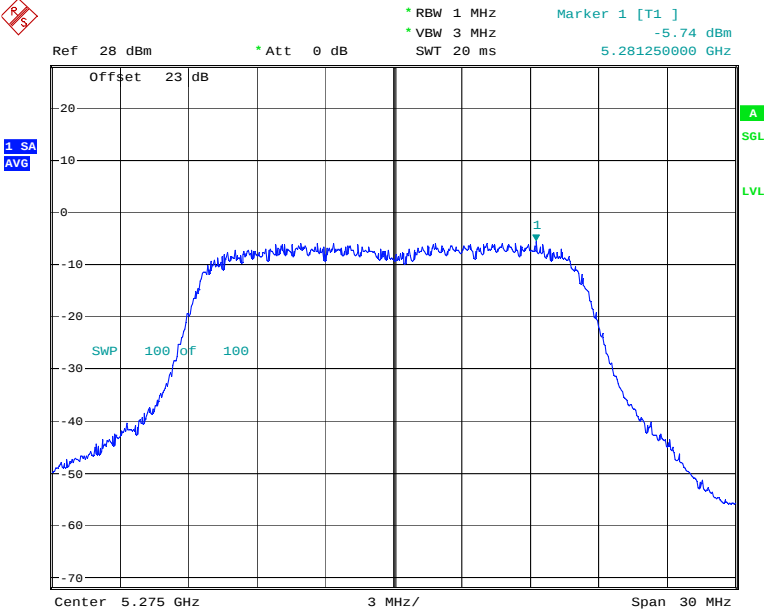
11Bm/MHz -(23dBi-6dBi)=-6dBm/MHz

6Mb/s---5265MHz



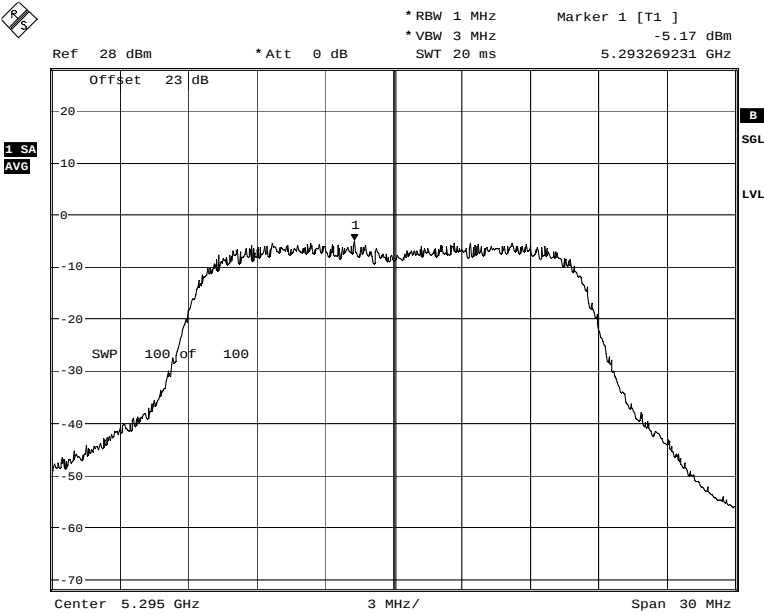
Date: 14.DEC.2005 10:21:23

6Mb/s---5275MHz



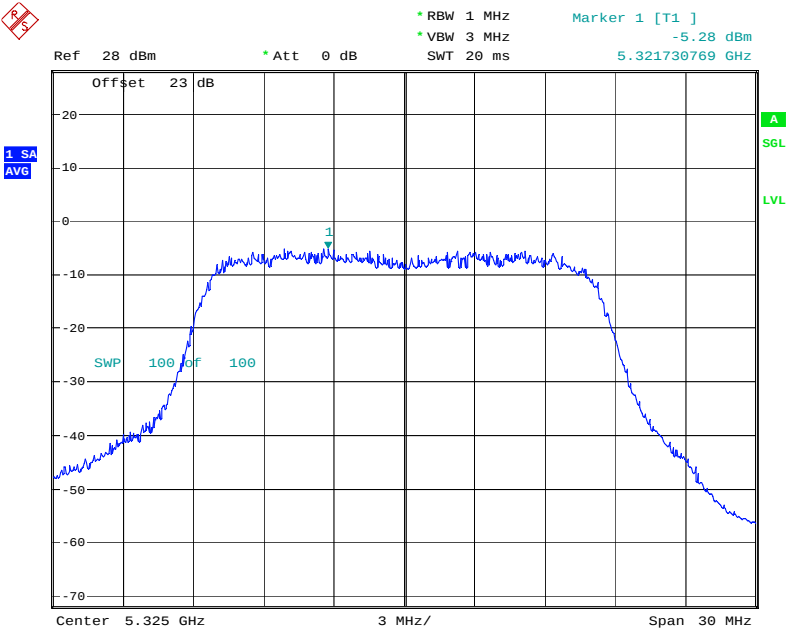
Date: 31.OCT.2005 11:59:52

6Mb/s---5295MHz



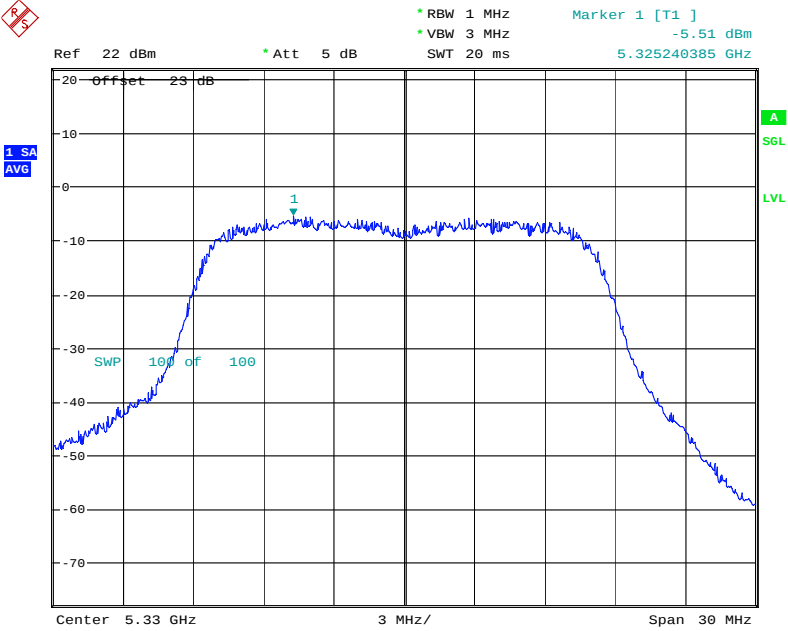
Date: 25.OCT.2005 11:10:23

6Mb/s---5325MHz



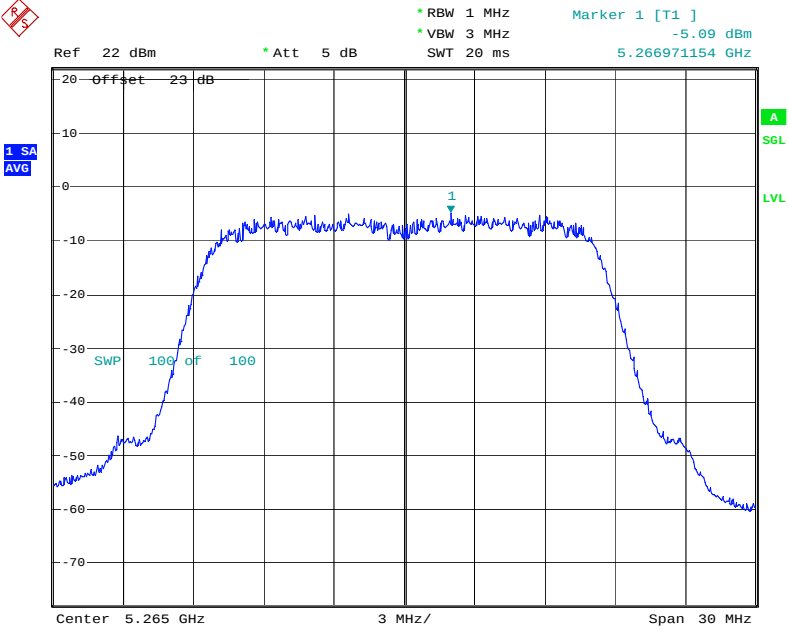
Date: 31.OCT.2005 12:02:08

6Mb/s---5330MHz



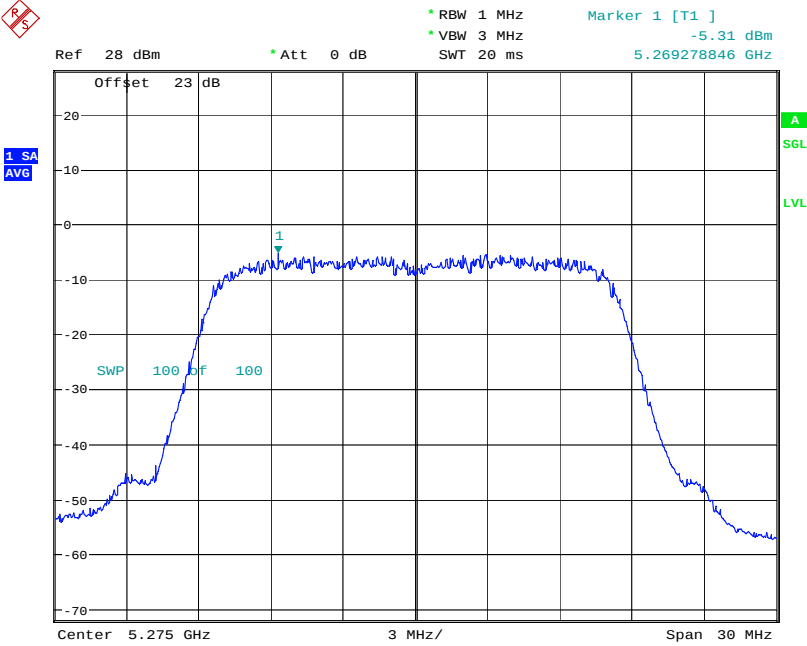
Date: 14.DEC.2005 10:33:04

54Mb/s---5265MHz



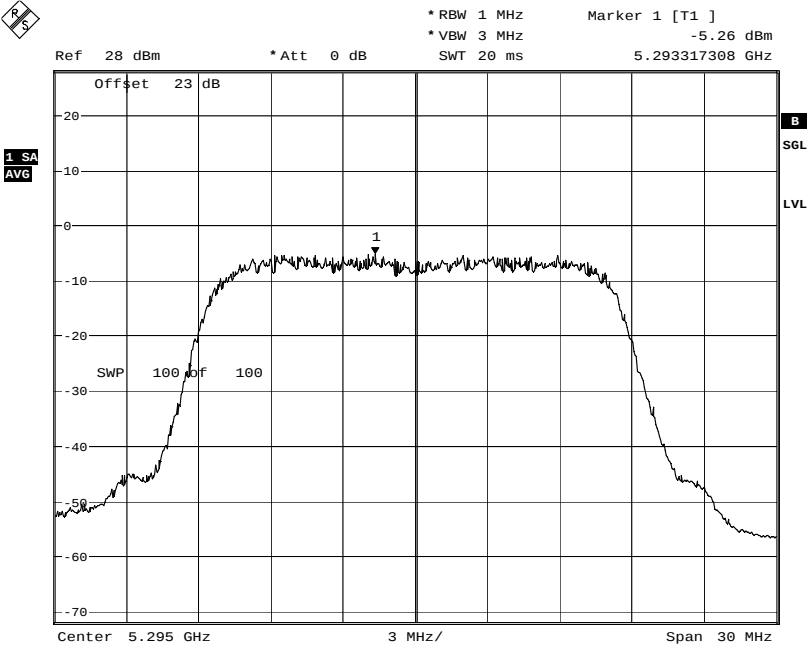
Date: 14.DEC.2005 10:22:15

54Mb/s---5275MHz



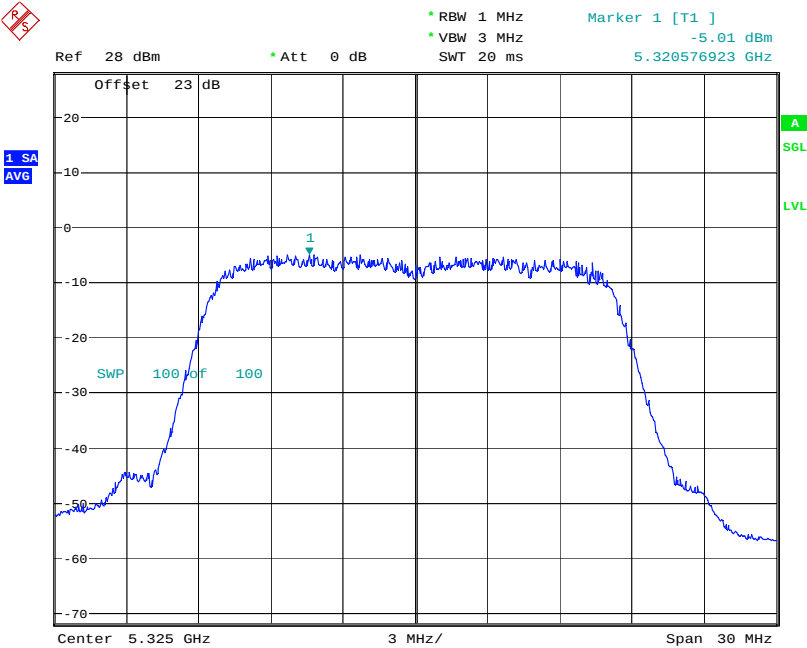
Date: 31.OCT.2005 12:00:57

54Mb/s---5295MHz



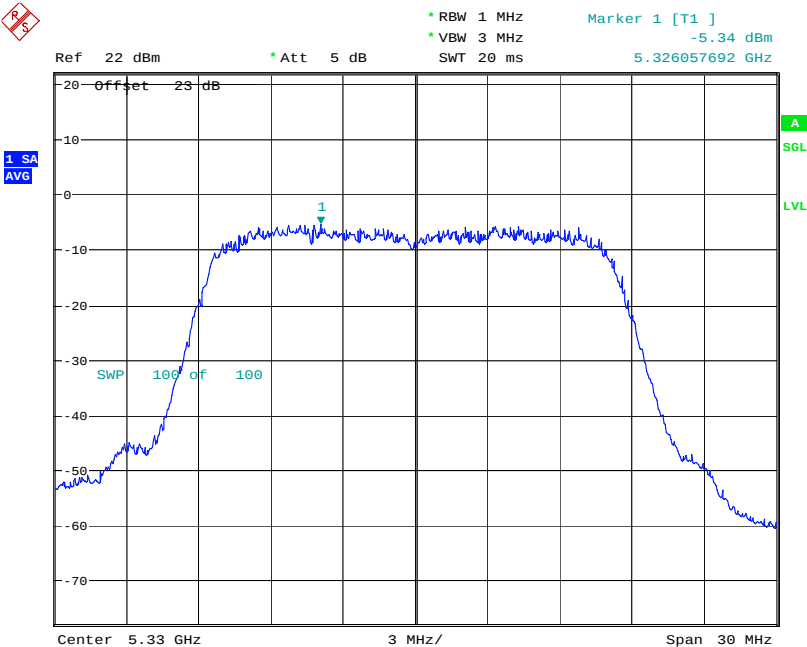
Date: 25.OCT.2005 11:11:40

54Mb/s---5325MHz



Date: 31.OCT.2005 12:08:04

54Mb/s---5330MHz



Date: 14.DEC.2005 10:31:57

Section 7. Supply Voltage Variation

Criteria: Clause 15.31

§ 15.31 (e) For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery-operated equipment, the equipment tests shall be performed using a new battery.

Test Conditions:

Sample Number:	1,2	Temperature:	22 °C
Date:	Nov.1, 2005	Humidity:	45 %
Modification State:	0	Tester:	Xu Jin
		Laboratory:	Ottawa

Test Method: Average power was verified under voltage extreme conditions using a wideband power meter with thermocouple detector.

Extreme Voltage: $\pm 15\%$ of AC Mains

Test Result: No major changed was noticed during the test.
Refer to the attached tables.

	120VAC	Low Voltage Extreme		High Voltage Extreme	
Frequency	Ave. Power	Ave. Power	Deviation	Ave. Power	Deviation
5275MHz	20.18dBm	20.18dBm	0%	20.19dBm	0.0005%

Section 8. Peak Excursion Measurement**Criteria: Clause 15.407(a)(6)**

(6) The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

Test Conditions:

Sample Number:	1,2	Temperature:	22 °C
Date:	Oct. 25, 2005	Humidity:	45 %
Modification State:	0	Tester:	Xu Jin
		Laboratory:	Ottawa

Test Method: Test was conducted with spectrum analyzer with sample detector and peak detector.

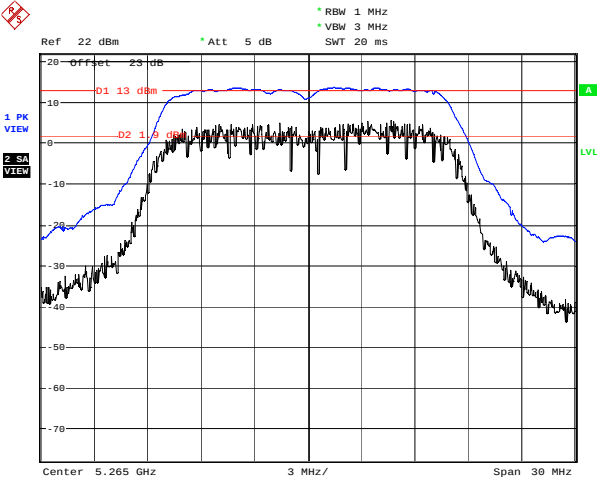
Test Result: Complies

Test Data: See attached tables and graphics

10dBi and 4dBi Maxrad Antenna
Peak Excursion Measurement Data (dB)

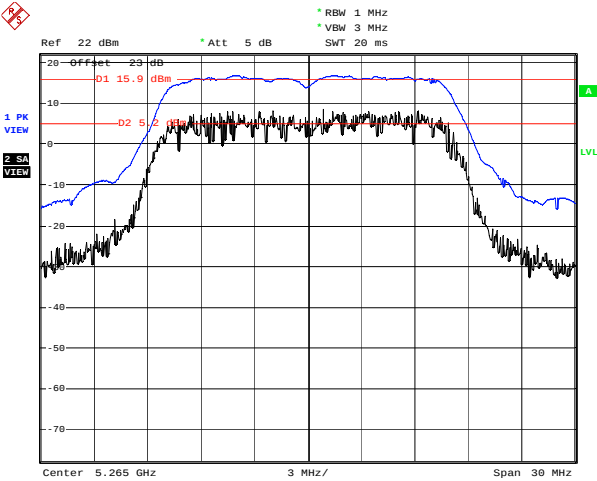
Frequency (MHz)		6 Mb/s	54 Mb/s
5265	10dBi	11.1	11.8
	4dBi	10.7	11.3
5275 10dBi &4dBi		10.7	11.4
5295 10dBi & 4dBi		10.7	11.3
5325 10dBi & 4dBi		11.0	11.7
5330	10dBi	11.1	11.6
	4dBi	11.1	11.8

6Mb/s---5265MHz--10dBi Maxrad Antenna



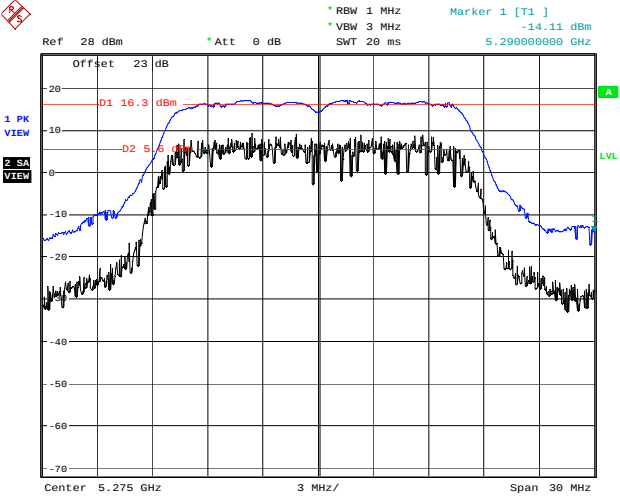
Date: 14.DEC.2005 11:11:35

6Mb/s---5265MHz--4dBi Maxrad Antenna



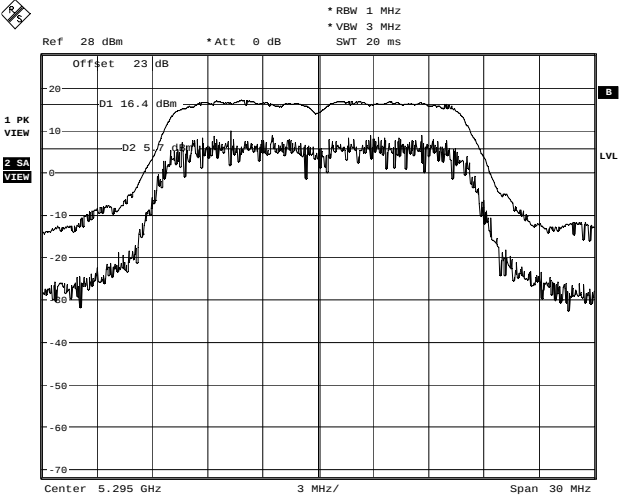
Date: 14.DEC.2005 11:59:44

6Mb/s---5275MHz



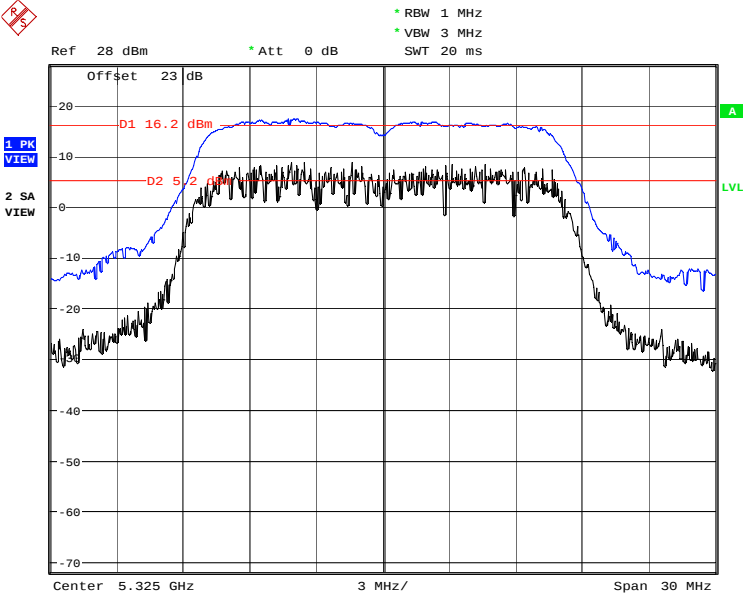
Date: 31.OCT.2005 13:17:04

6Mb/s---5295MHz



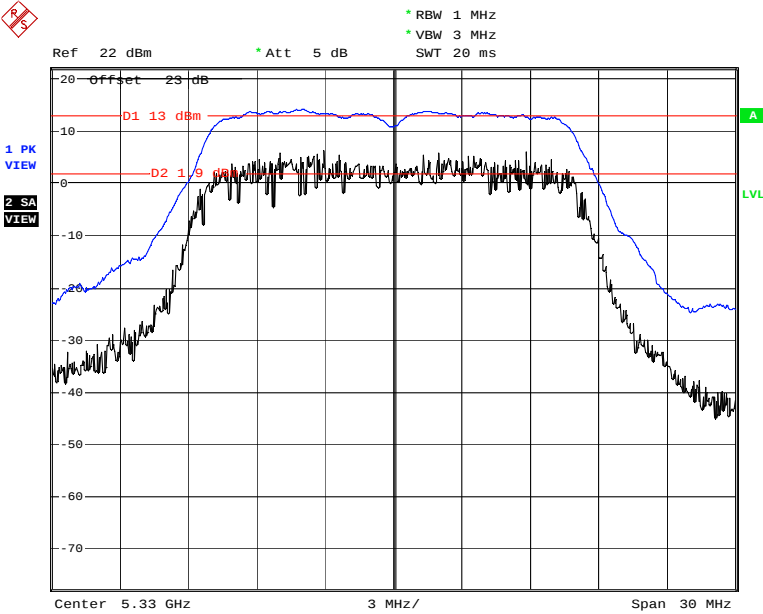
Date: 25.OCT.2005 12:03:34

6Mb/s---5325MHz



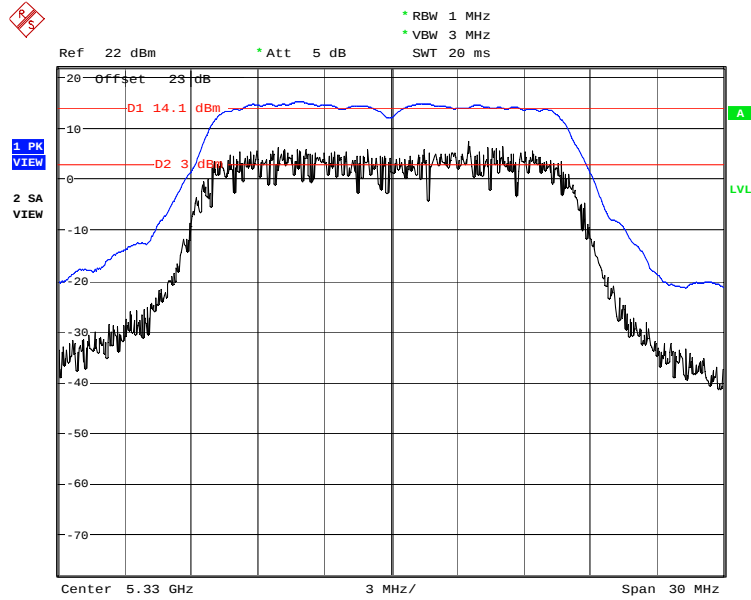
Date: 31.OCT.2005 13:21:02

6Mb/s---5330MHz---10dBi Maxrad Antenna



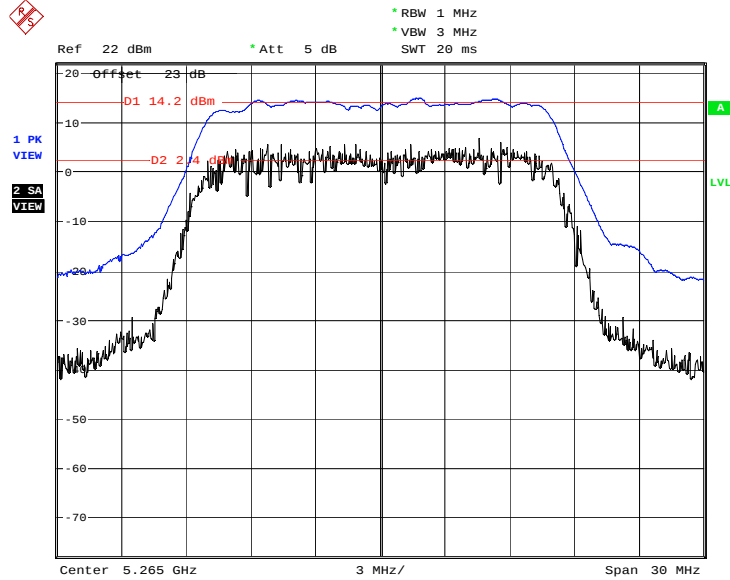
Date: 14.DEC.2005 11:52:03

6Mb/s---5330MHz---4dBi Maxrad Antenna



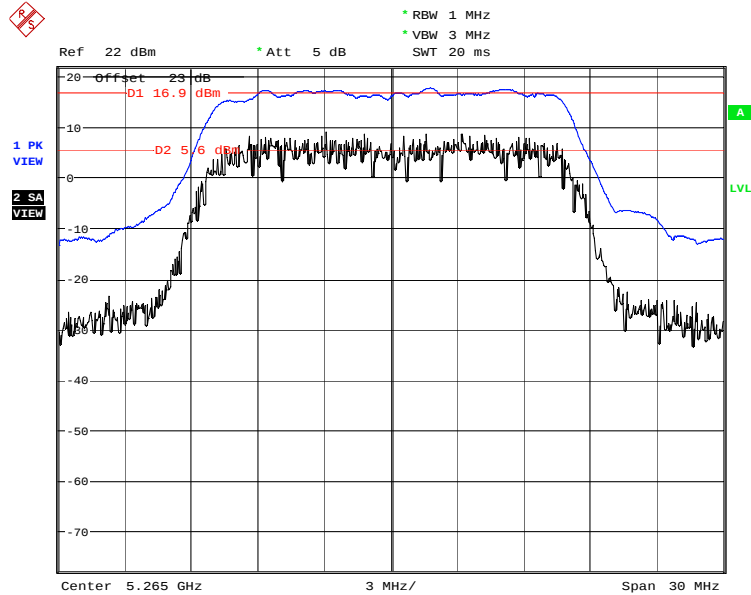
Date: 14.DEC.2005 13:43:31

54Mb/s---5265MHz---10dBi Maxrad Antenna



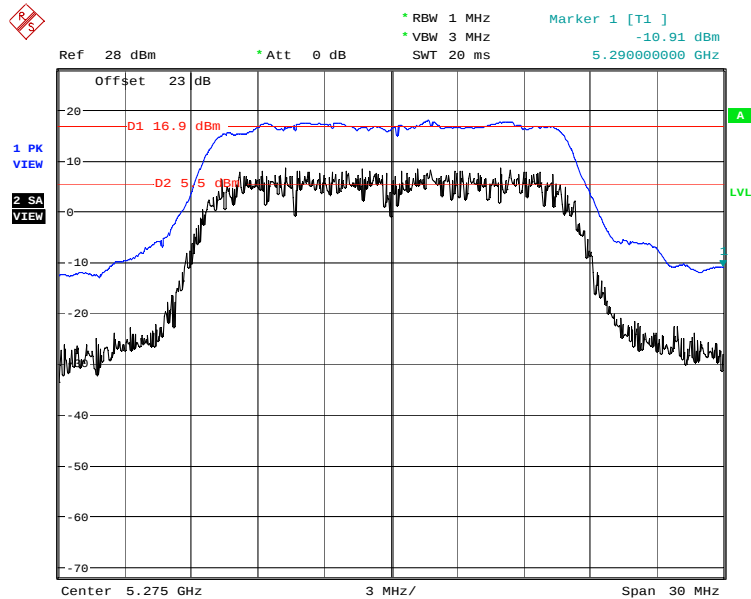
Date: 14.DEC.2005 11:55:41

54Mb/s---5265MHz---4dBi Maxrad Antenna



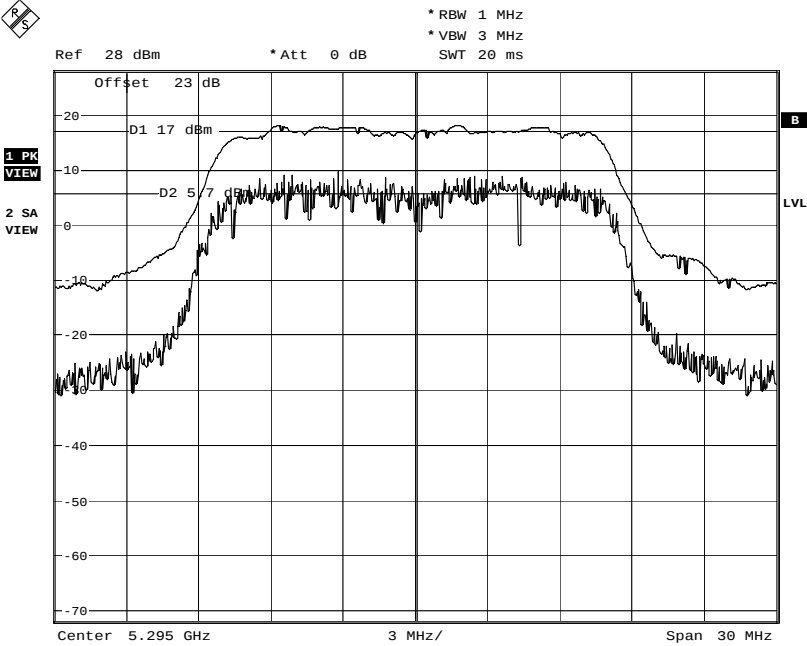
Date: 14.DEC.2005 12:01:38

54Mb/s---5275MHz



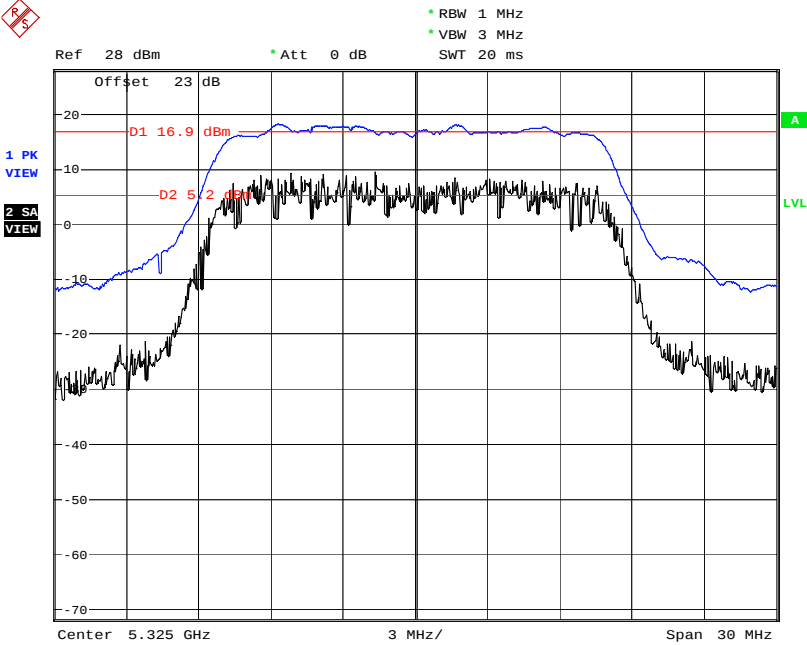
Date: 31.OCT.2005 13:19:17

54Mb/s---5295MHz



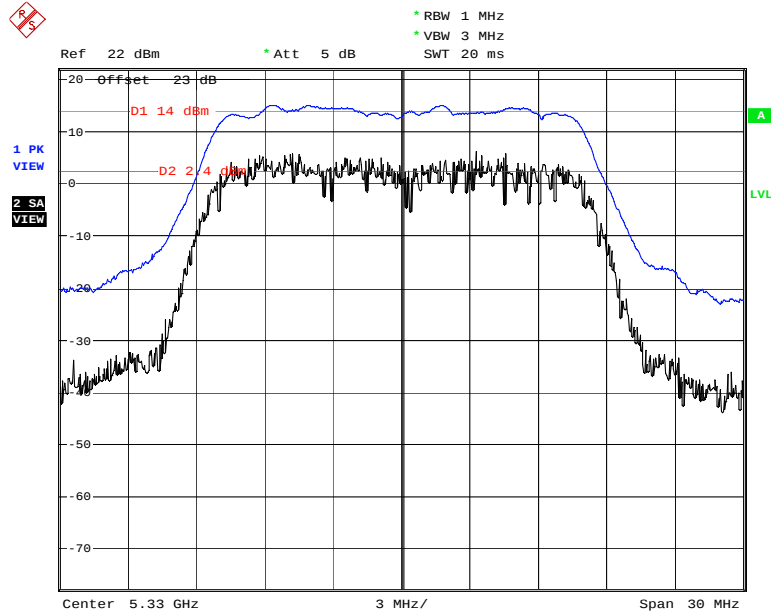
Date: 25.OCT.2005 12:05:30

54Mb/s---5325MHz



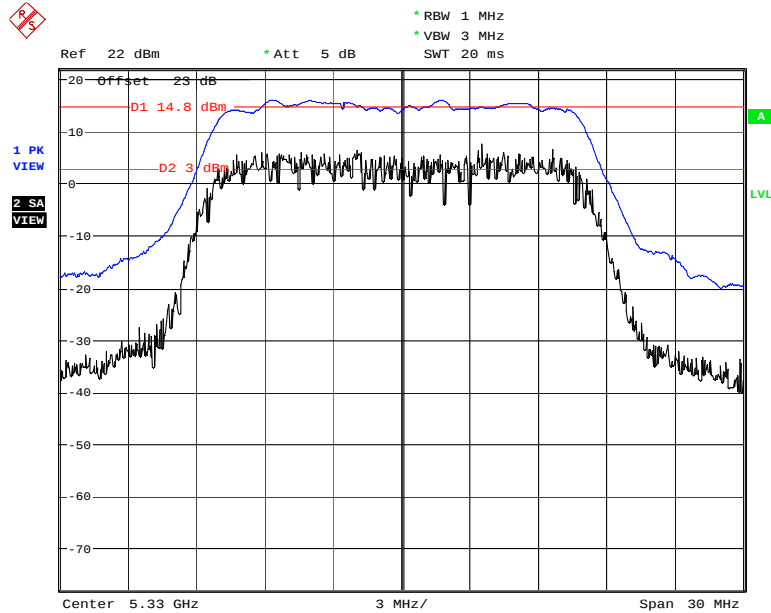
Date: 31.OCT.2005 13:22:10

54Mb/s---5330MHz ---10dBi Maxrad Antenna



Date: 14.DEC.2005 11:53:08

54Mb/s---5330MHz ---4dBi Maxrad Antenna

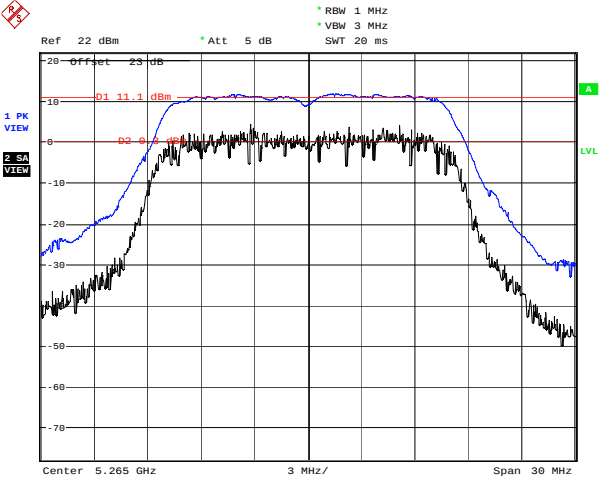


Date: 14.DEC.2005 13:51:40

15dBi Belair Patch Antenna
Peak Excursion Measurement Data (dB)

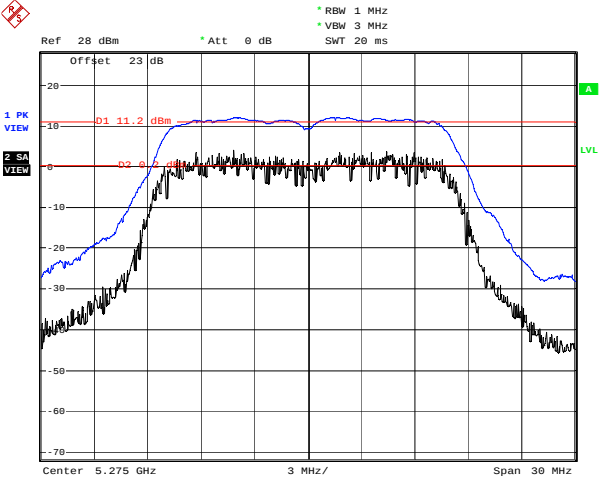
Frequency (MHz)	Data Rate 6 Mb/s	Data Rate 54 Mb/s
5265	10.8	11.0
5275	11.0	11.3
5295	11.0	11.7
5325	10.6	11.6
5330	12.1	11.0

6Mb/s---5265MHz



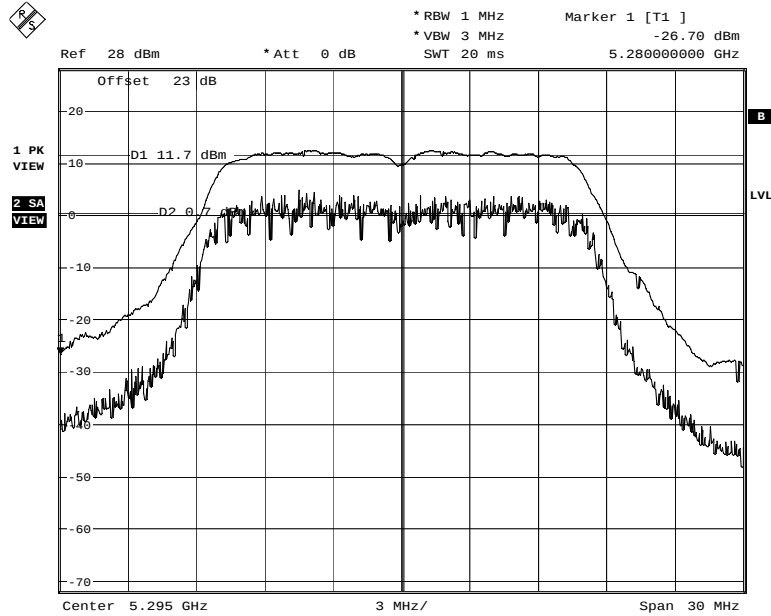
Date: 14.DEC.2005 14:27:29

6Mb/s---5275MHz



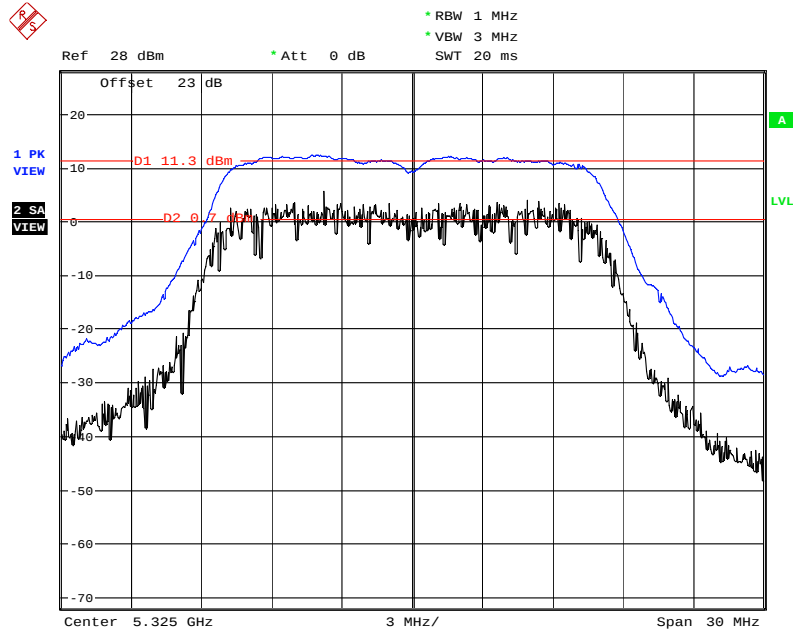
Date: 31.OCT.2005 13:29:44

6Mb/s---5295MHz



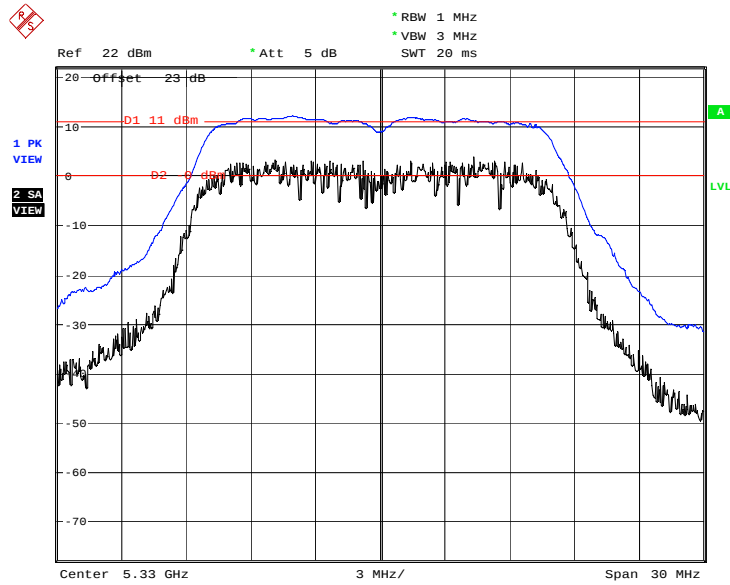
Date: 25.OCT.2005 14:07:29

6Mb/s---5325MHz



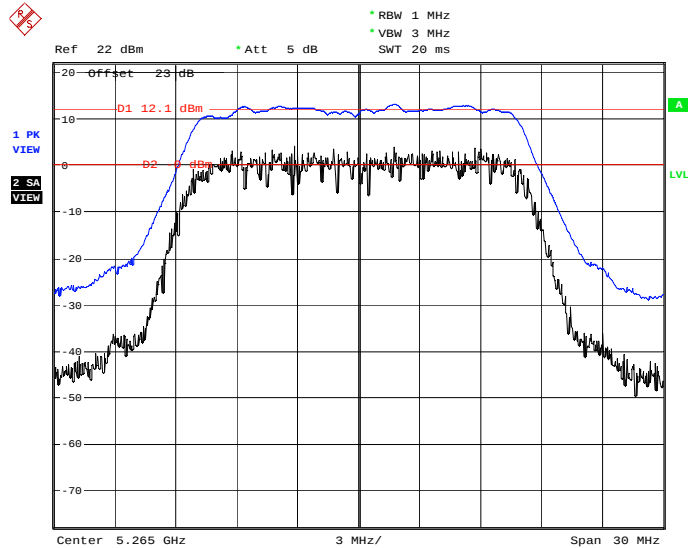
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6Mb/s---5330MHz



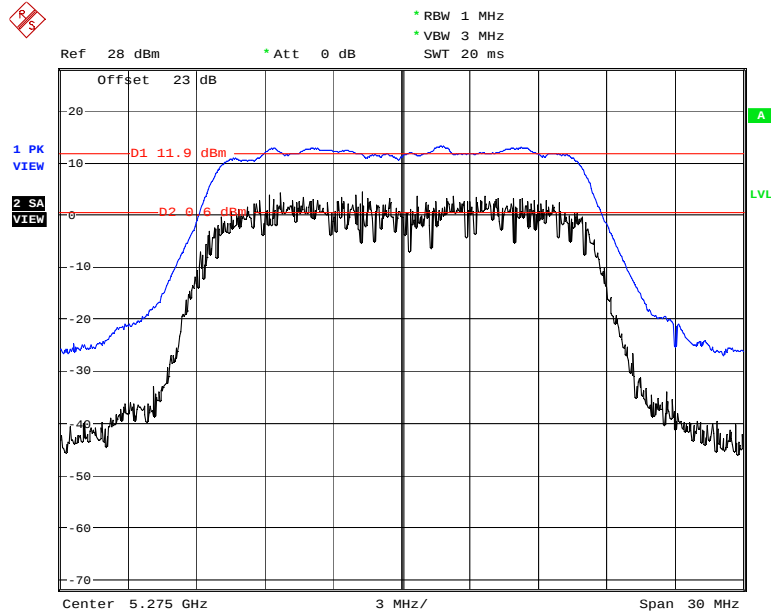
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54Mb/s---5265MHz



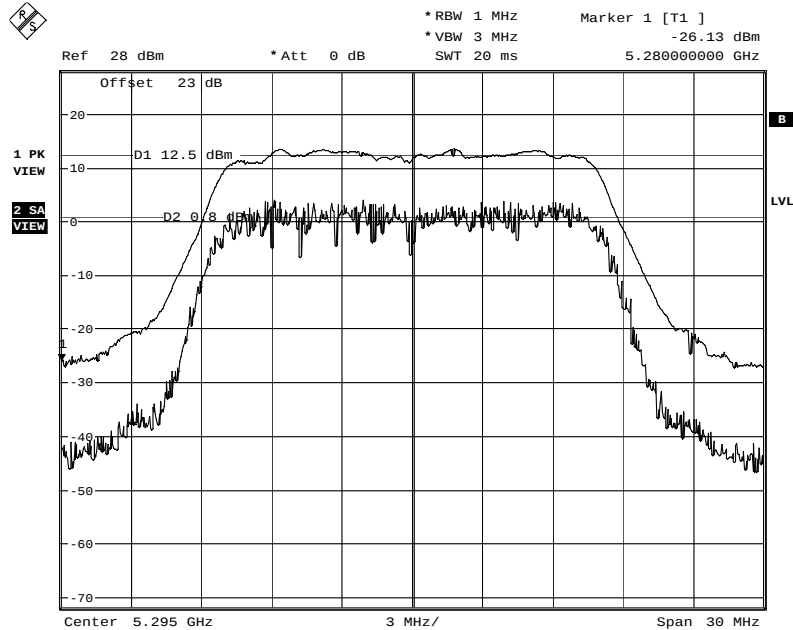
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54Mb/s---5275MHz



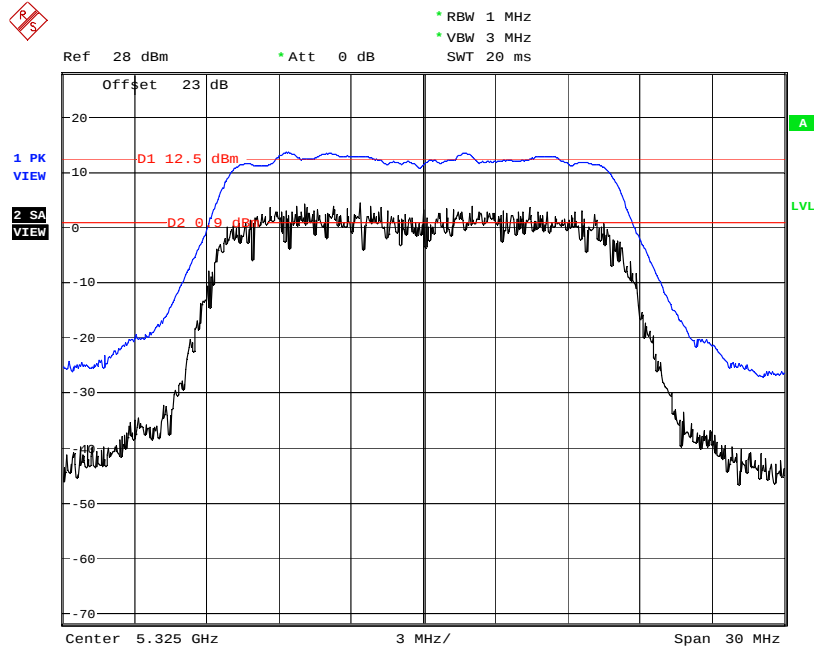
Date: 31.OCT.2005 13:30:47

54Mb/s---5295MHz



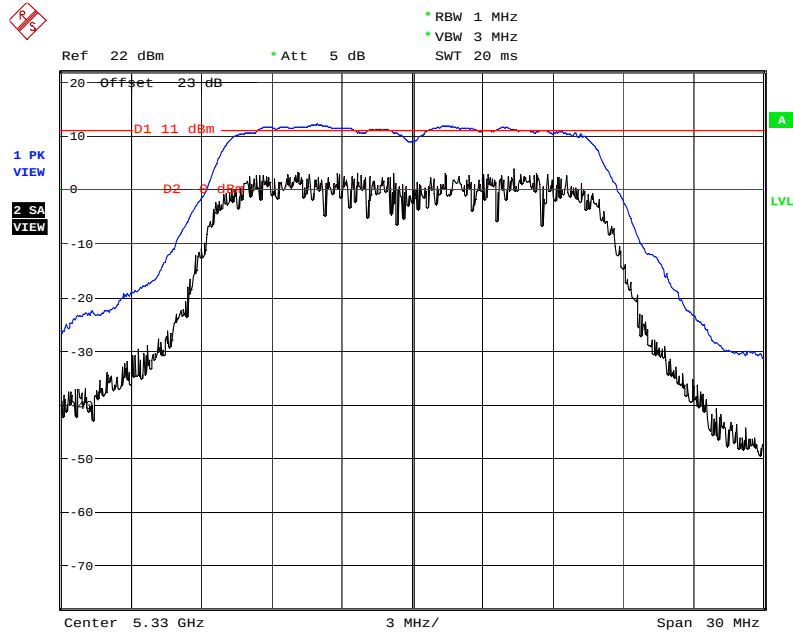
Date: 25.OCT.2005 14:08:54

54Mb/s---5325MHz



Date: 31.OCT.2005 13:33:08

54Mb/s---5330MHz

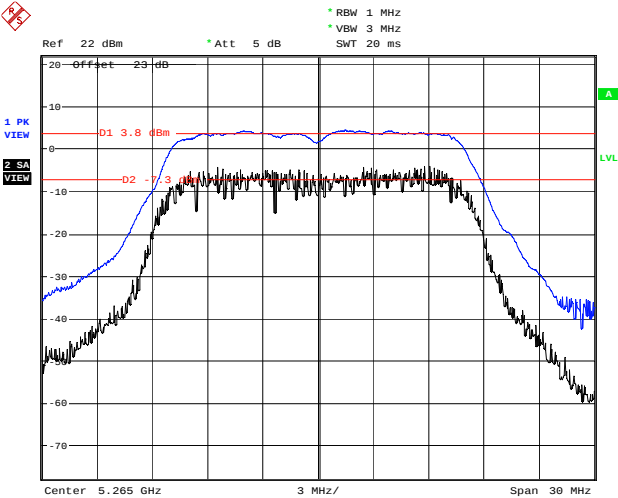


Date: 14.DEC.2005 14:31:01

23dBi H&S Antenna
Peak Excursion Measurement Data (dB)

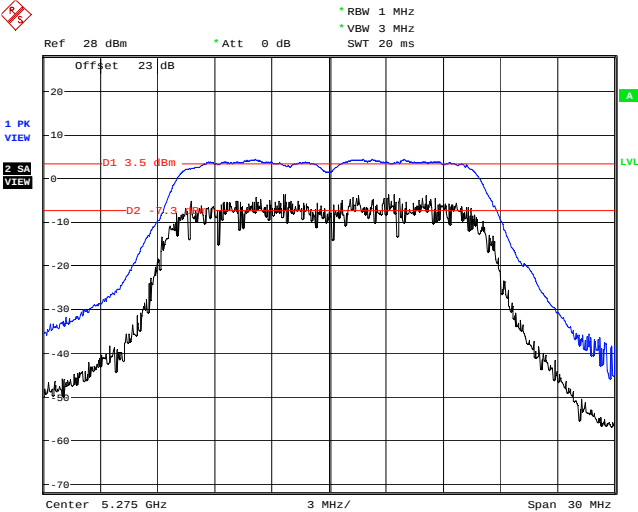
Frequency (MHz)	Data Rate 6 Mb/s	Data Rate 54 Mb/s
5265	11.1	12.0
5275	10.8	12.0
5295	11.2	11.3
5325	11.2	11.6
5330	10.8	11.8

6Mb/s---5265MHz



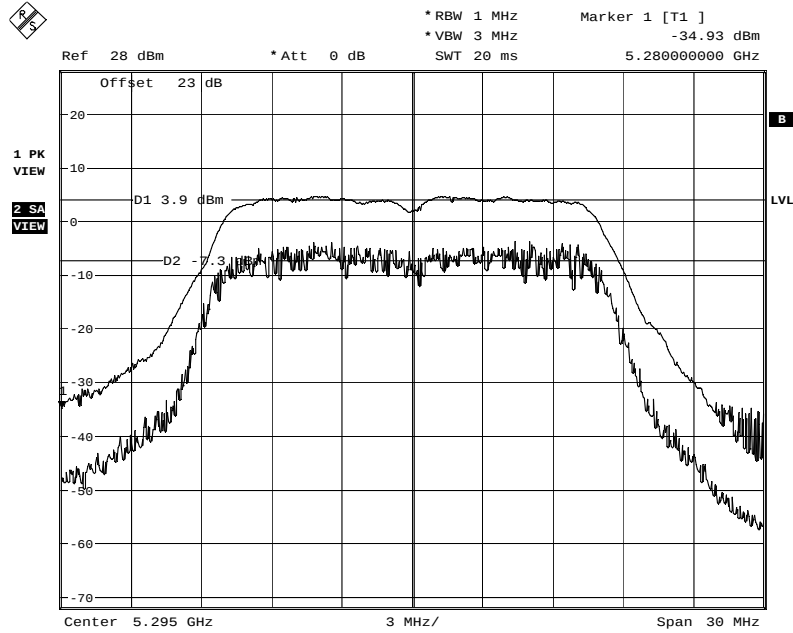
Date: 14.DEC.2005 15:29:42

6Mb/s---5275MHz



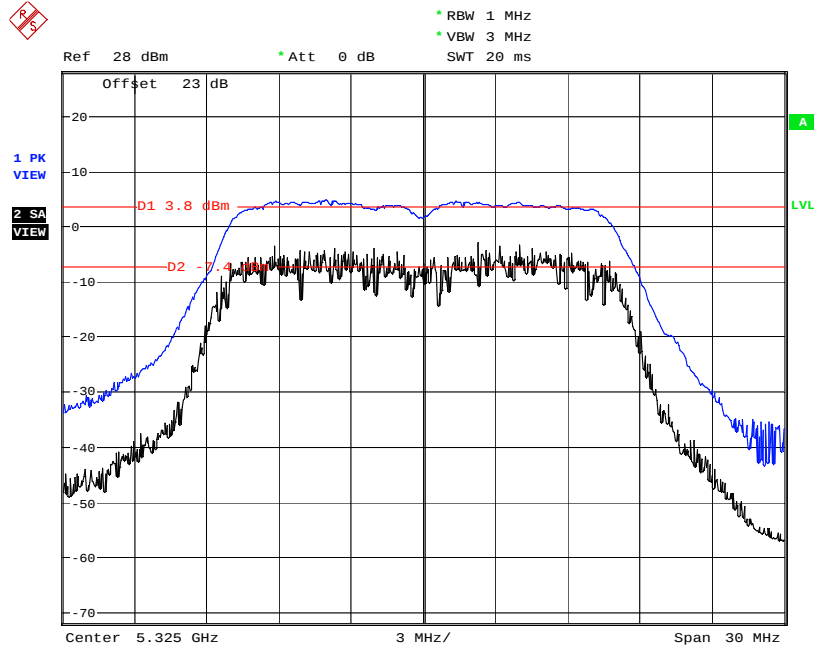
Date: 31.OCT.2005 13:45:29

6Mb/s---5295MHz



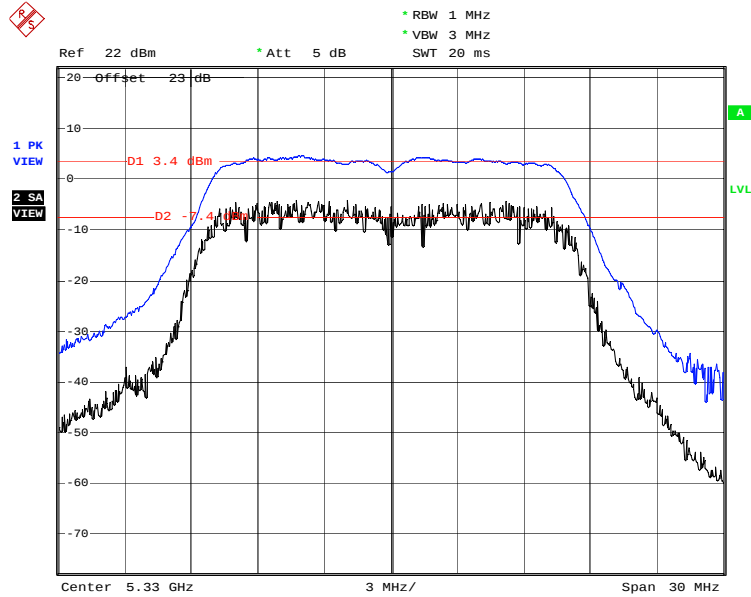
Date: 25.OCT.2005 14:30:23

6Mb/s---5325MHz



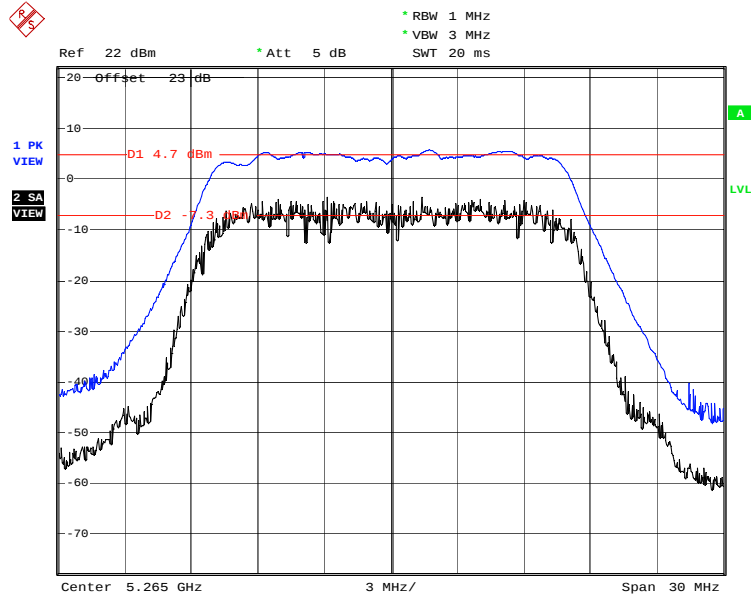
Date: 31.OCT.2005 13:47:58

6Mb/s---5330MHz



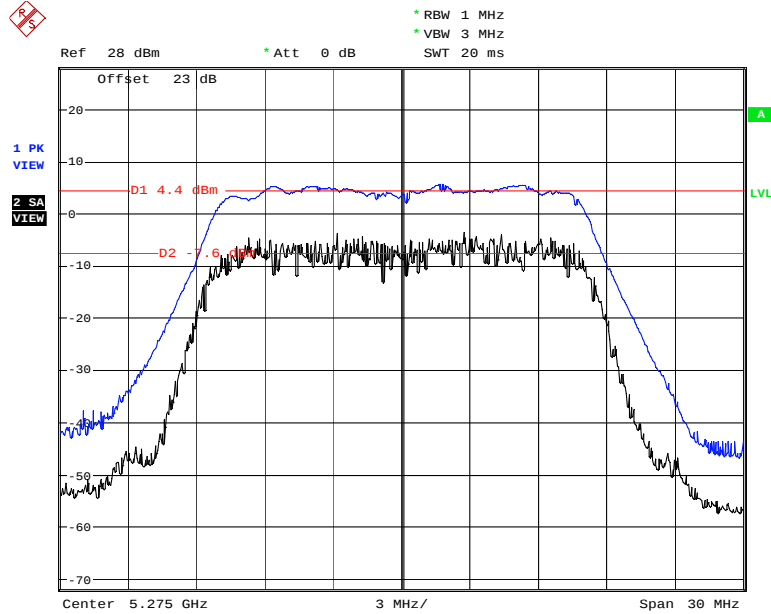
Date: 14.DEC.2005 15:28:29

54Mb/s---5265MHz



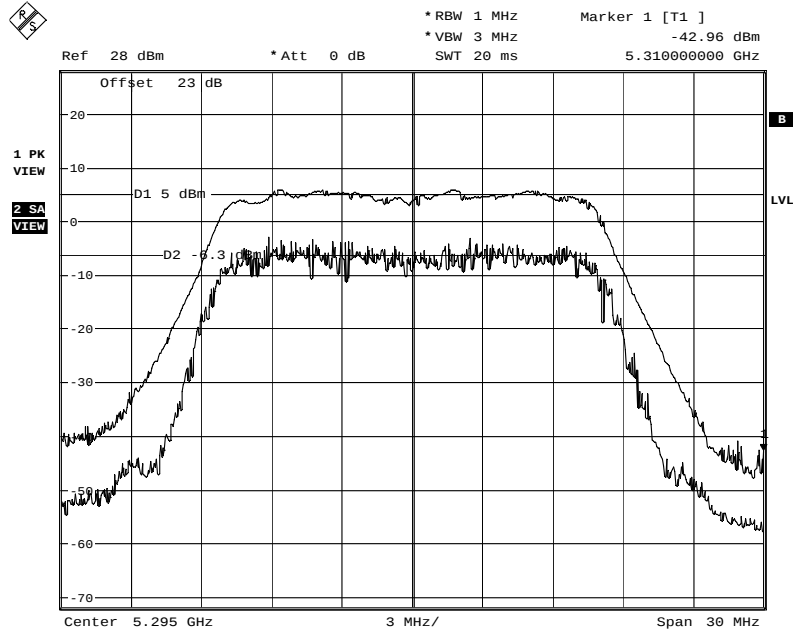
Date: 14.DEC.2005 15:30:48

54Mb/s---5275MHz



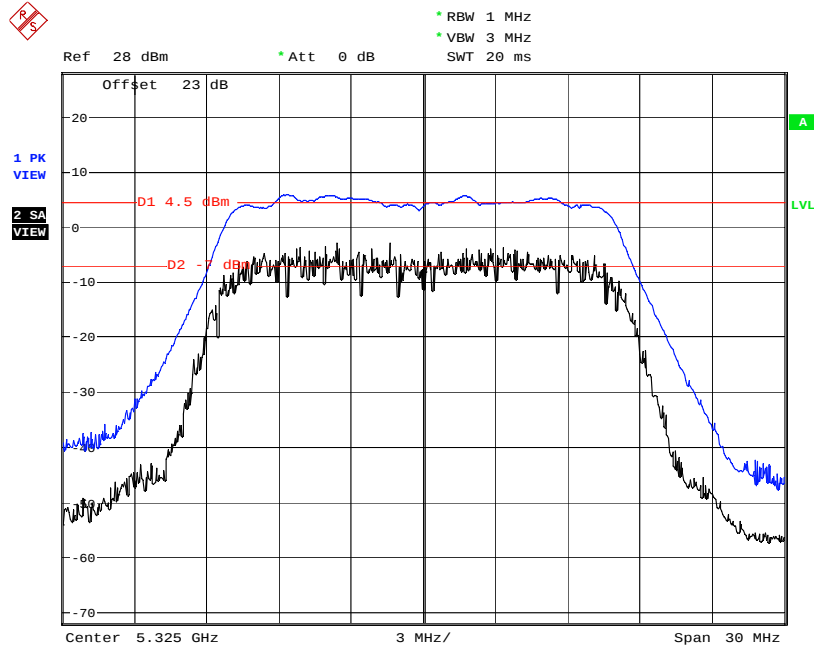
Date: 31.OCT.2005 13:46:43

54Mb/s---5295MHz



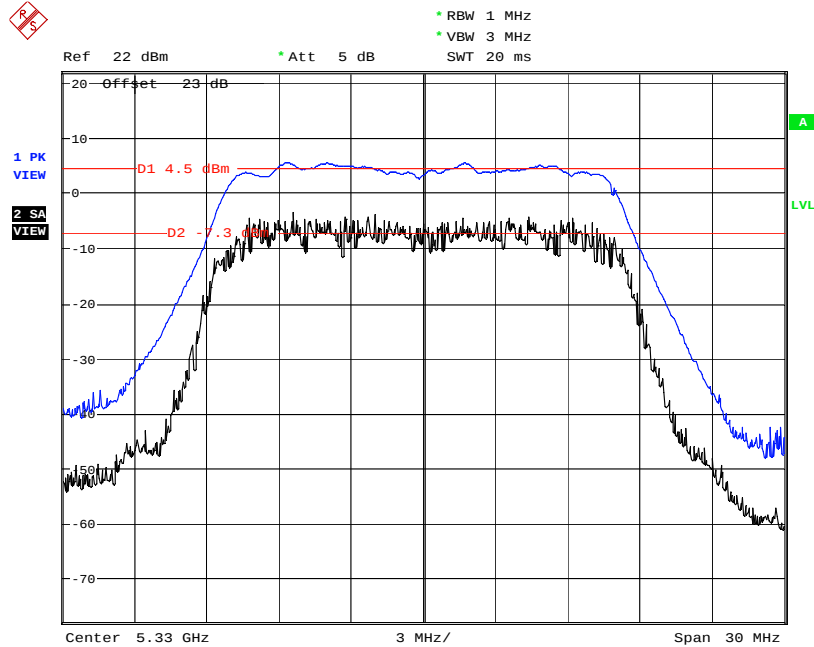
Date: 25.OCT.2005 14:37:32

54Mb/s---5325MHz



Date: 31.OCT.2005 13:49:03

54Mb/s---5330MHz



Date: 14.DEC.2005 15:27:28

Section 9. Frequency Stability

Clause 15.407(g)

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Test Conditions:

Sample Number:	1,2	Temperature:	21 °C
Date:	Nov.2, 2005	Humidity:	45 %
Modification State:	0	Tester:	Xu Jin
		Laboratory:	Ottawa

Test Results: Complies

Test Conditions Ambient Temperature: 21°C
Extreme Temperature: -30°C to +50°C
Extreme Voltage Conditions: +/-15% of 120VAC

Test Data: See Attached tables

Frequency Stability Test Data

Test Condition	Measured Frequency (MHz)	Frequency Drift (ppm)
+21°C, 120VAC	5294.984571	----
+21°C, 102VAC	5294.984542	-0.006
+21°C, 138VAC	5294.984533	-0.007
+50°C, 120VAC	5294.960483	-4.5
+40°C, 120VAC	5294.961905	-4.3
+30°C, 120VAC	5294.967052	-3.3
+20°C, 120VAC	5294.968209	-3.1
+10°C, 120VAC	5294.99104	1.2
0°C, 120VAC	5295.013088	5.4
-10°C, 120VAC	5295.020598	6.8
-20°C, 120VAC	5295.027986	8.2
-30°C, 120VAC	5295.020449	6.8

Appendix B: Setup Photographs

Radiated Emission Setup Photos_Front



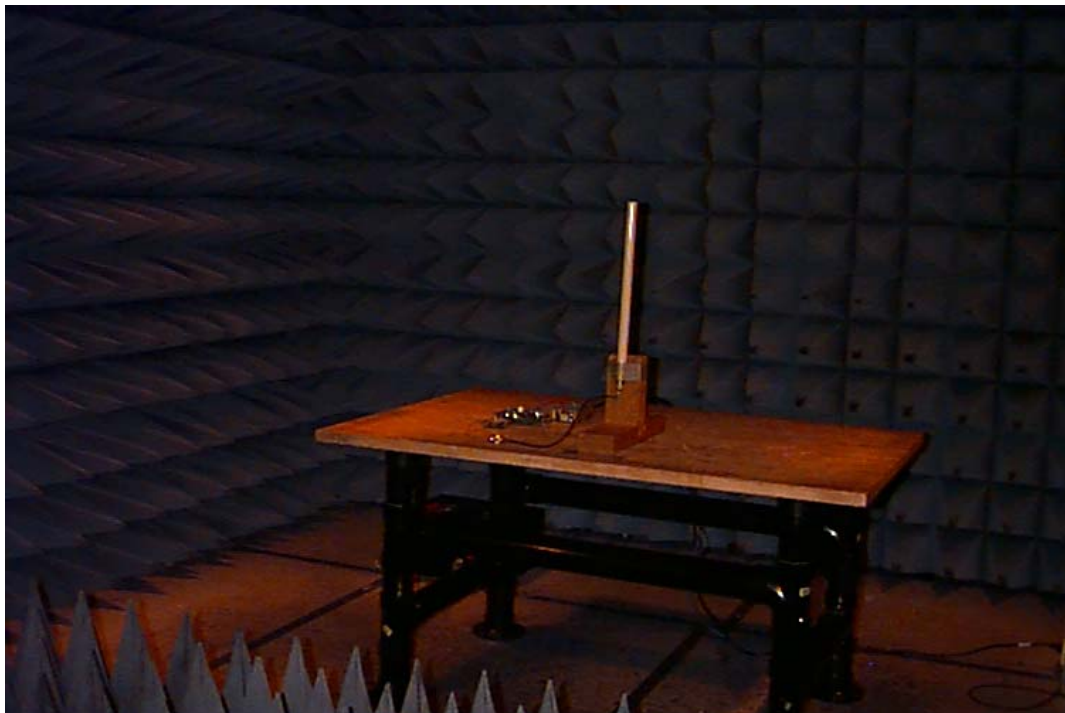
Radiated Emissions Setup Photos_Back



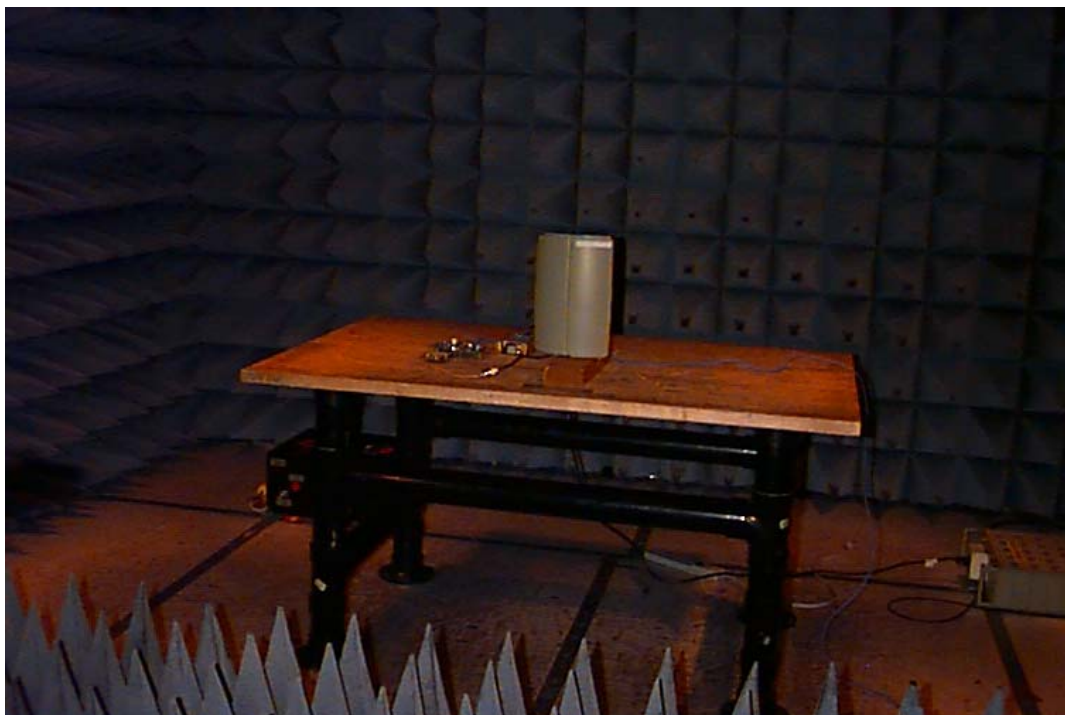
4dBi Maxrad Antenna



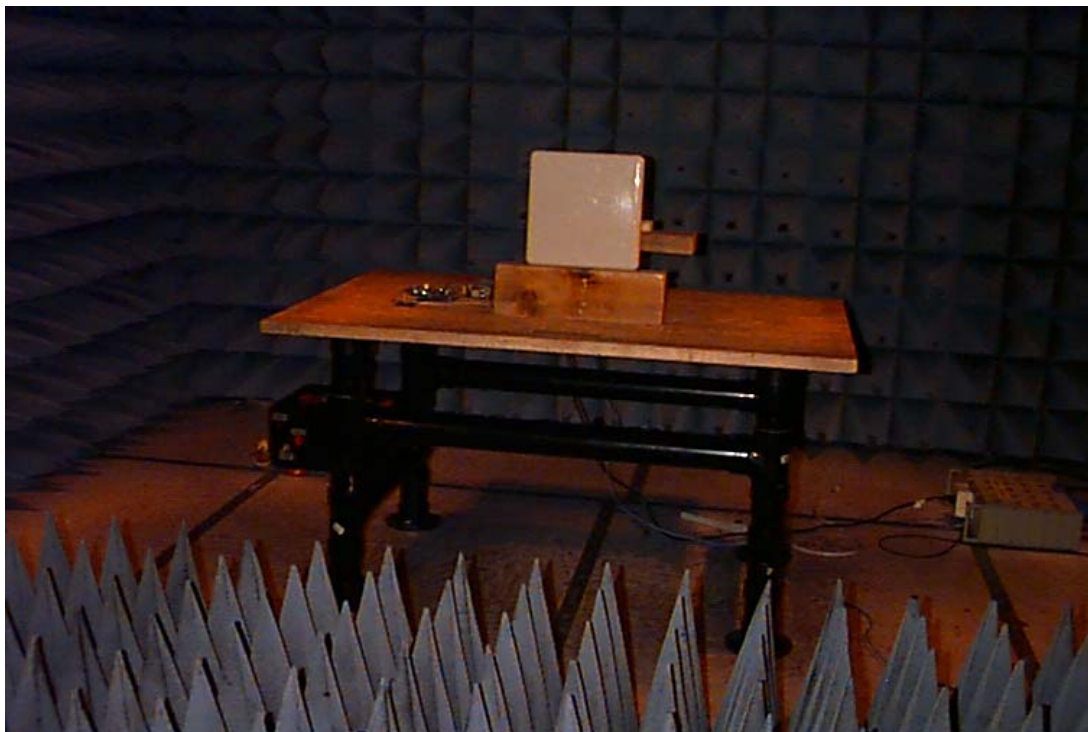
10dBi Maxrad Antenna



15dBi Belair Patch Antenna

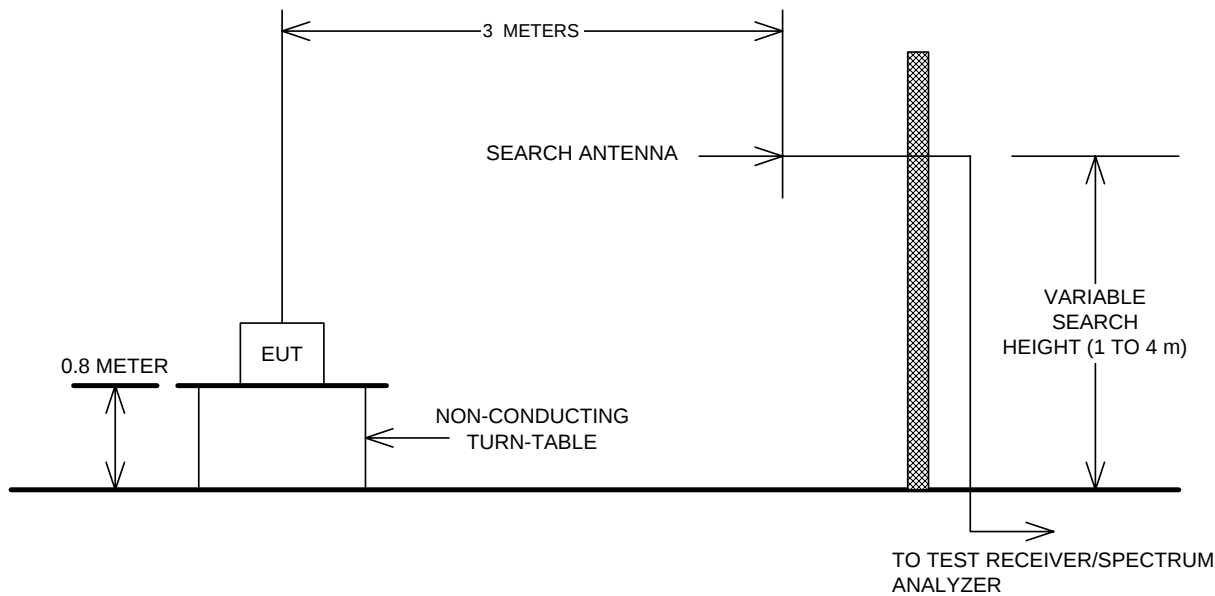


23dBi H&S Antenna

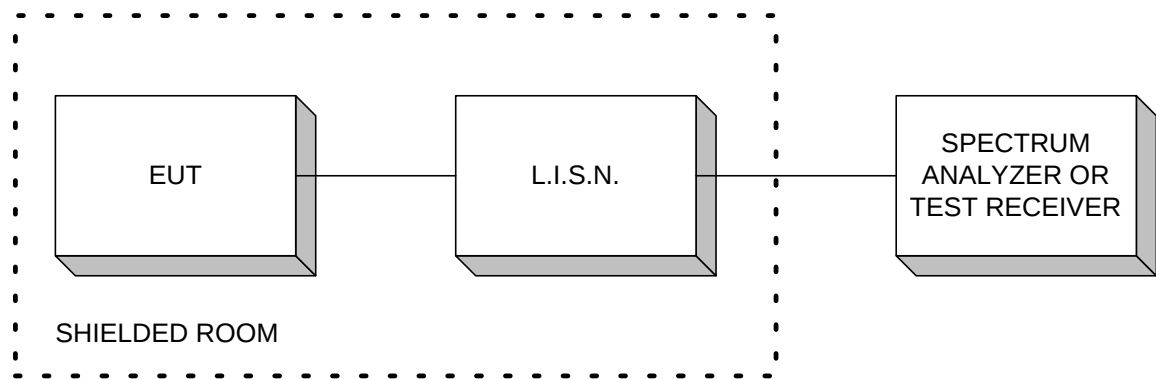


Appendix C : Block Diagram of Test Setups

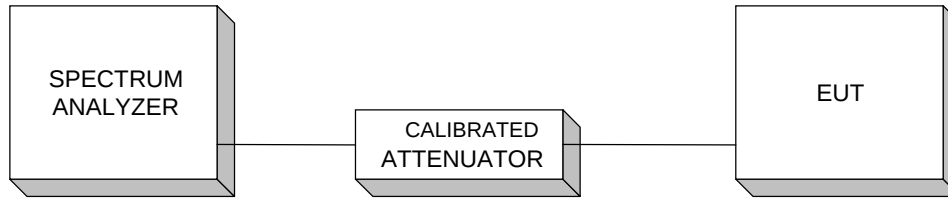
Test Site For Radiated Emissions



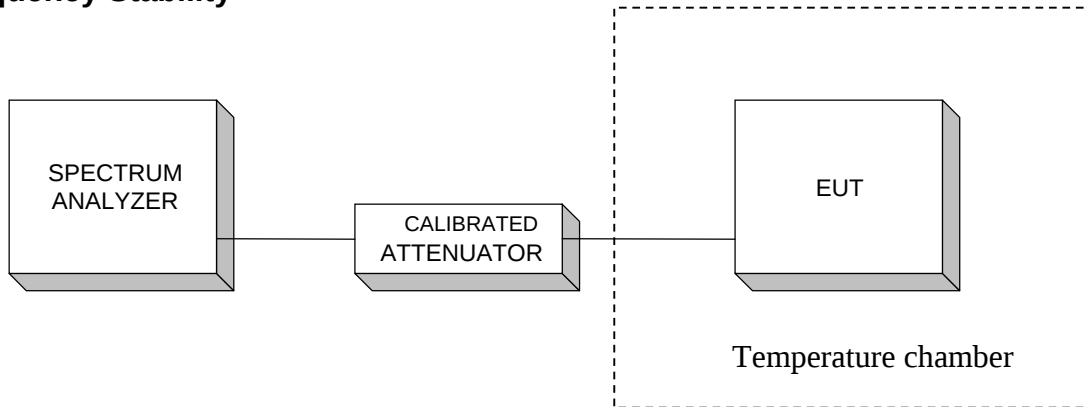
Conducted Emissions



Conducted Measurements



Frequency Stability



TIA/EIA 603, Signal Substitution Method

