

Straubing, December 12, 2001

**T E S T - R E P O R T**

**No. 55503-10715**

**for**

**Interlink**

**Flight Simulator**

Applicant: **Futaba Corporation**

Purpose of testing: To show compliance with

**FCC Code of Federal Regulations,  
Part 15 Subpart B Class B**

**Industry Canada Radio Standards  
Specification RSS-210 Issue 2,  
Section 6.1 (Category I Equipment)**

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**Note:**

The test data of this report relate only to the individual item which has been tested. This report shall not be reproduced except in full extent without the written approval of the testing laboratory.

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## 1. Administrative Data

Equipment Under Test (EUT): Interlink

Serial number(s): ---

Type of equipment: Flight Simulator

Parts/accessories: ---

FCC-ID: ---

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Applicant:  
(full address) Futaba Corporation.  
1080, Yabutsuka Chosei-mura,  
Chosei-gun, Chiba-ken  
299-4395 Japan

Contract identification: ---

Contact person: Mr. Kanetsuna

Manufacturer: Futaba Corporation

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Receipt of EUT: October 30, 2001

Date of test: November 28 to 30, 2001

Note: ---

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Responsible for testing: Karl Roidt

Responsible for test report: Karl Roidt (cj)

## 2. Identification of Test Laboratory

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Test Laboratory:  
(full address): Senton GmbH EMI/EMC Test Center  
Aeussere Fruehlingstrasse 45  
D-94315 Straubing  
Germany

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Contact person: Mr. Johann Roidt  
Communication: Telephone (+49) 0 94 21 / 55 22-0  
Fax (+49) 0 94 21 / 55 22-99  
eMail: Office@senton.de

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FCC registration number: 90926  
Industry Canada file number: IC 3050

### 3. Summary of Test Results

The tested sample complies with the limits forth in the Code of Regulations

**FCC Part 15 Subpart B Class B  
of the Federal Communication Commission (FCC).**

and the

**Radio Standards Specification RSS-210 Issue 2, Section 6.1 for Low Power  
Licence-Exempt Radiocommunication Devices of Industry Canada.**



Johann Roidt  
Technical Manager



Karl Roidt  
Test Engineer

#### **4. Operation Mode of EUT**

normal usage

## 5. Configuration of EUT and Peripheral Devices

### Configuration of cables of EUT

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### Configuration of peripheral devices connected to EUT

PC	Dell Dimension 4100
monitor	Siemens MCM 174 S26361-12575-V150
mouse	Microsoft PS2 ITE 78CJ
printer parallel	HP Think Jet 2225D+ # Inv. no. C-1240
printer serial	HP Think Jet 2225D+ # Inv. no. C-1237

## **6. Measuring Methods**

### **6.1. Conducted Emission 0.45 MHz - 30 MHz (§15.107) / RSS-210 Section 7.4)**

Conducted emissions were measured in the frequency range 0.45 MHz to 30 MHz. The bandwidth of the EMI-Receiver was set to 9 kHz and the detector-function was set to CISPR quasi-peak.

The test setup was made in accordance with ANSI C63.4-1992.

Measurements were performed on phase and neutral lines of the power-cords of the tested system. Preliminary scans were taken with the detector-function of the EMI-receiver set to peak to determine the conducted EMI-profile of the EUT. At the final test the cables and equipment were placed and moved within the range of positions likely to find their maximum emissions.

See figure 1 for the measurement setup.

Test equipment used (see equipment list for details):  
04, 22, 23, 60, 63

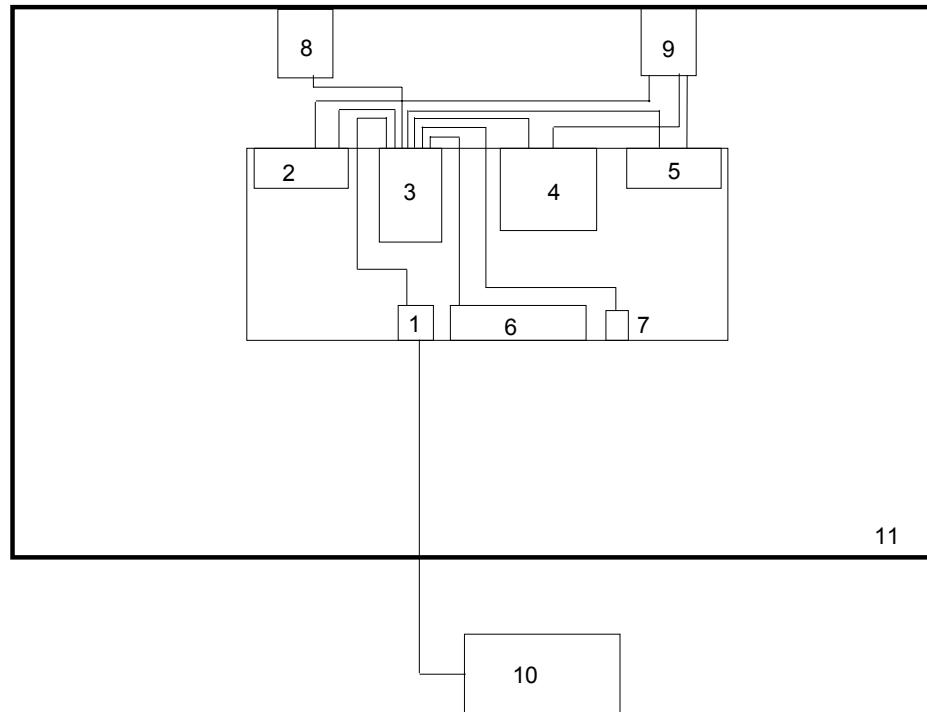


Figure 1: Measurement setup for conducted emission test

- |          |                  |           |                               |
|----------|------------------|-----------|-------------------------------|
| <b>1</b> | EUT              | <b>8</b>  | LISN for PC                   |
| <b>2</b> | Parallel Printer | <b>9</b>  | LISN for peripheral device(s) |
| <b>3</b> | PC               | <b>10</b> | Test receiver                 |
| <b>4</b> | Monitor          | <b>11</b> | Shielded room                 |
| <b>5</b> | Serial Printer   |           |                               |
| <b>6</b> | Keyboard         |           |                               |
| <b>7</b> | Mouse            |           |                               |

## 6.2. Radiated Emission 30 MHz - 1 GHz (FCC §15.109 / RSS-210 Section 7.3)

Radiated emissions are measured over the frequency range from 30 MHz to 1 GHz. The bandwidth of the EMI-receiver is set to 120 kHz and the detector-function is set to CISPR quasi-peak.

The test setup is made in accordance with ANSI C63.4-1992.

Measurements are made in both the horizontal and vertical planes of polarization.

Preliminary scans are taken in a semi-anechoic room using a spectrum analyzer with the detector function set to peak. Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing.

All tests are performed at a test-distance of 3 meters.

For final testing an open-area test-site is used. During the tests the EUT is rotated all around and the receiving-antenna is raised and lowered from 1 meter to 4 meters to find the maximum levels of emissions. The cables and equipment is placed and moved within the range of position likely to find their maximum emissions.

See figure 2 for the measurement setup.

Test equipment used (see equipment list for details):

01, 02, 05, 12, 38, 39, 40, 41, 58, 61, 64, 66

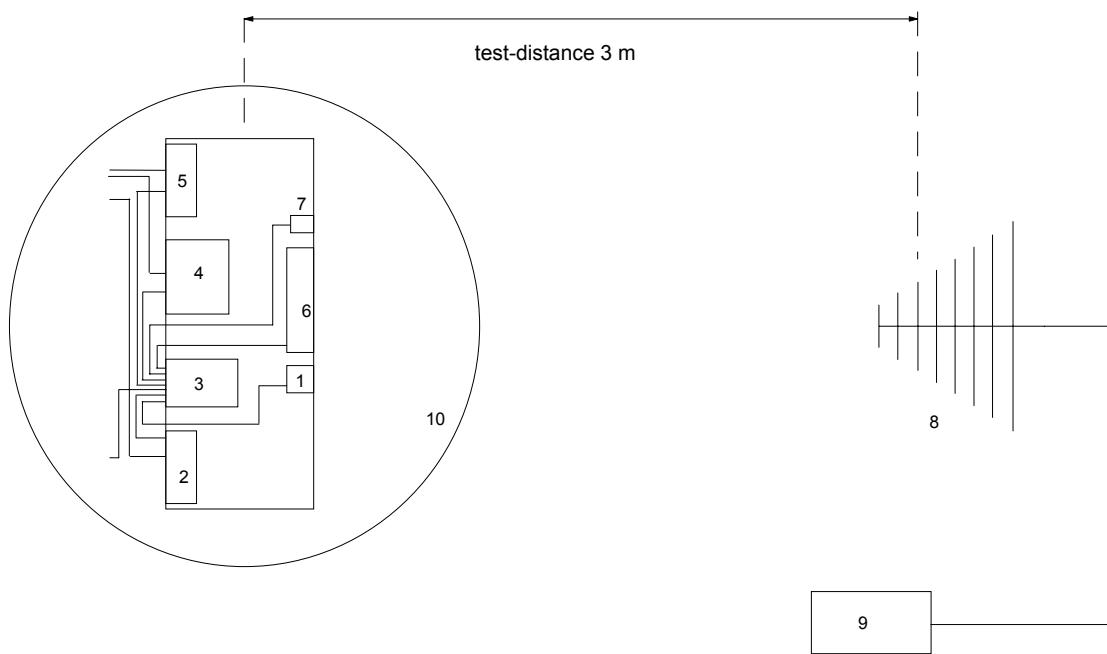


Figure 2: Measurement setup for radiated emission test below 1 GHz

- |   |                  |    |                     |
|---|------------------|----|---------------------|
| 1 | EUT              | 8  | Measurement antenna |
| 2 | Parallel Printer | 9  | Test receiver       |
| 3 | PC               | 10 | Turn table          |
| 4 | Monitor          |    |                     |
| 5 | Serial Printer   |    |                     |
| 6 | Keyboard         |    |                     |
| 7 | Mouse            |    |                     |

### 6.3. Radiated Emission 1 GHz - 2 GHz (FCC §15.109 / RSS-210 Sections 7.3)

Radiated emissions are measured in the frequency range 1 GHz to 2 GHz. Resolution and video bandwidth of the spectrum analyzer are set to 1 MHz.

Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing.

Additional measurements are performed at critical frequencies with reduced span. EUT is rotated all around and receiving antenna is raised and lowered to find the maximum levels of emission. The cables and equipment are placed and moved within the range of position likely to find their maximum emissions.

All tests are performed in a semi-anechoic chamber with a test-distance of 3 meters. If possible preamplifiers are used for the whole frequency range. Special care is taken to avoid overload in transmit mode (using appropriate attenuators or filters if necessary).

See figure 3 for the measurement setup.

Test equipment used (see equipment list for details):  
02, 13, 14, 16, ,42, 44, 45, 57, 64

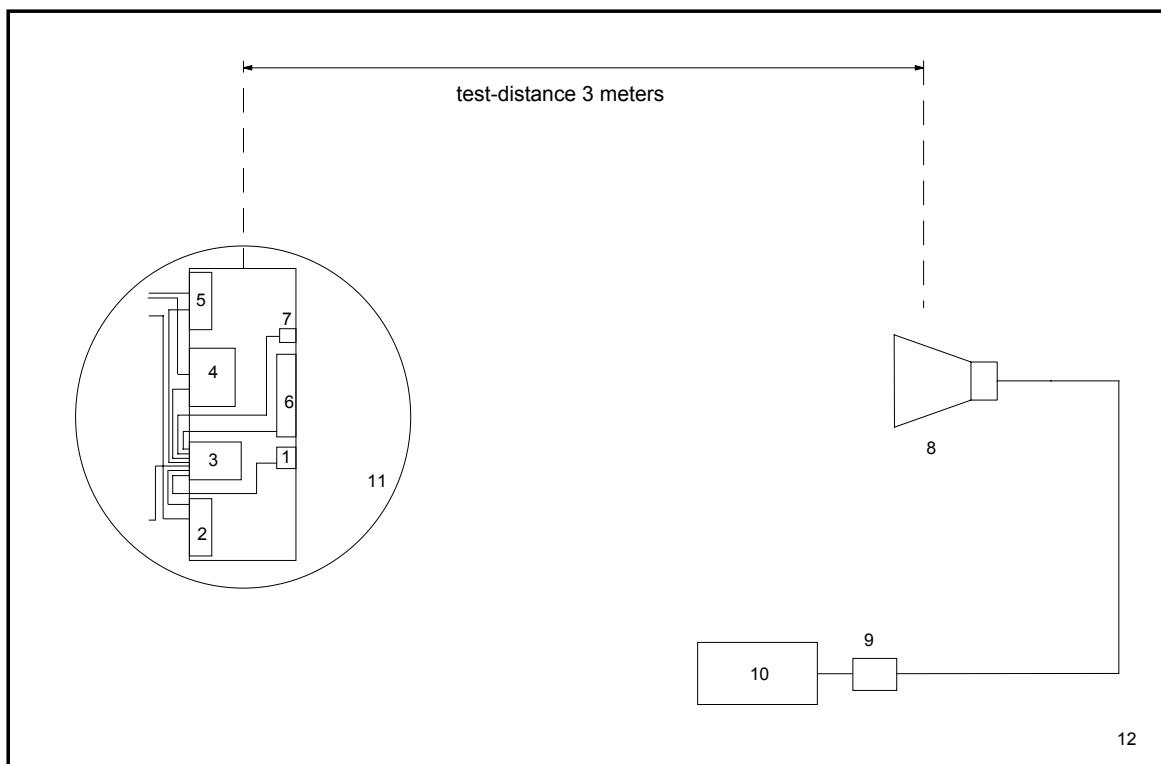


Figure 3: Measurement setup for radiated emission test above 1 GHz

- |   |                  |    |                              |
|---|------------------|----|------------------------------|
| 1 | EUT              | 8  | Measurement antenna          |
| 2 | Parallel Printer | 9  | Preamplifier (if applicable) |
| 3 | PC               | 10 | Spectrum analyzer            |
| 4 | Monitor          | 11 | Turn table                   |
| 5 | Serial Printer   | 12 | Semi anechoic room           |
| 6 | Keyboard         |    |                              |
| 7 | Mouse            |    |                              |

## 7. Equipment List

To facilitate reference to test equipment used for related tests, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory.

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	R 3271	05050023	Advantest
02	EMI Test Receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
03	Test Receiver	ESH 3	880112/032	Rohde & Schwarz
04	Test Receiver	ESHS 10	860043/016	Rohde & Schwarz
05	Test Receiver	ESV	881414/009	Rohde & Schwarz
06	Test Receiver	ESVP	881120/024	Rohde & Schwarz
07	Audio Analyzer	UPA	862954	Rohde & Schwarz
08	Power Meter	NRVS	836856/015	Rohde & Schwarz
09	Power Sensor	NRV-Z52	837901/030	Rohde & Schwarz
10	Power Sensor	NRV-Z4	863828/015	Rohde & Schwarz
11	Preamplifier	ESV-Z3	860907/004	Rohde & Schwarz
12	Preamplifier	R14601		Advantest
13	Preamplifier	ACX/080-3030	32640	CTT
14	Preamplifier	ACO/180-3530	32641	CTT
15	Signal Generator	SMS	872166/039	Rohde & Schwarz
16	Signal Generator	HP 8673 D	2930A00966	Hewlett Packard
17	Waveform Generator	HP 33120 A	US34005375	Hewlett Packard
18	Attenuator 20 dB	4776-20	9503	Narda
19	Attenuator 10 dB	4776-10	9412	Narda
20	Pulse Limiter	ESH 3-Z2	1144	Rohde & Schwarz
21	Pulse Limiter	11947 A	3107A00566	Hewlett Packard
22	V-Network	ESH 3-Z5	862770/018	Rohde & Schwarz
23	V-Network	ESH 3-Z5	894785/005	Rohde & Schwarz
24	V-Network	ESH 3-Z5	830952/025	Rohde & Schwarz
25	V-Network	ESH 3-Z6	830722/010	Rohde & Schwarz
26	V-Network	NSLK 8127	8127152	Schwarzbeck
27	V-Network	NNLA 8119	8119148	Schwarzbeck
28	V-Network	SE 01	01	Senton
29	T-Network	ESH 3-Z4	890602/011	Rohde & Schwarz
30	T-Network	ESH 3-Z4	890602/012	Rohde & Schwarz
31	High Impedance Probe	TK 9416	01	Schwarzbeck
32	High Impedance Probe	TK 9416	02	Schwarzbeck
33	Current Probe	ESH 2-Z1	863366/18	Rohde & Schwarz
34	Current Probe	ESV-Z1	862553/3	Rohde & Schwarz

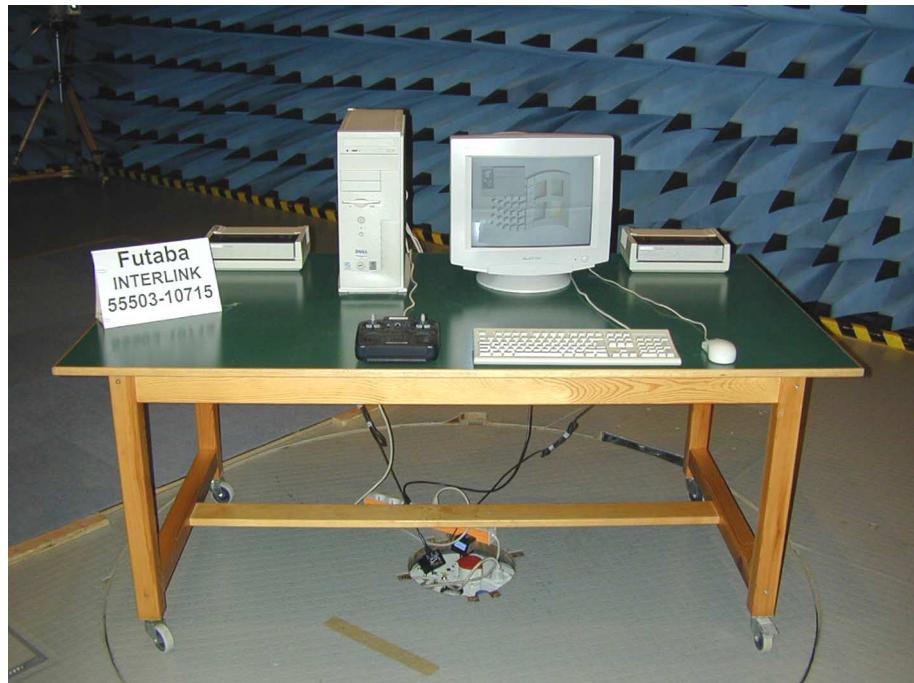
No.	Type	Model	Serial Number	Manufacturer
35	Absorbing Clamp	MDS 21	80911	Lüthi
36	Absorbing Clamp	MDS 21	79690	Lüthi
37	Loop Antenna	HFH2-Z2	882964/1	Rohde & Schwarz
38	Biconical Antenna	HK 116	842204/001	Rohde & Schwarz
39	Biconical Antenna	HK 116	836239/02	Rohde & Schwarz
40	Log. Periodic Antenna	HL 223	841516/023	Rohde & Schwarz
41	Log. Periodic Antenna	HL 223	834408/12	Rohde & Schwarz
42	Horn Antenna	3115	9508-4553	Emco
43	Horn Antenna	3160-03	9112-1003	Emco
44	Horn Antenna	3160-04	9112-1001	Emco
45	Horn Antenna	3160-05	9112-1001	Emco
46	Horn Antenna	3160-06	9112-1001	Emco
47	Horn Antenna	3160-07	9112-1008	Emco
48	Horn Antenna	3160-08	9112-1002	Emco
49	Horn Antenna	3160-09	9403-1025	Emco
50	Digital multimeter	199	463386	Keithley
51	DC Power Supply	NGSM 32/10	203	Rohde & Schwarz
52	DC Power Supply	NGB	2455	Rohde & Schwarz
53	DC Power Supply	NGA	386	Rohde & Schwarz
54	Temperature Test Chamber	HT4010	07065550	Heraeus
55	Cable	RG214	1309	Senton
56	Cable	200CM_001	1357	Rosenberger
57	Cable	150CM_001	1479	Rosenberger
58	Cable Set EG1	RG214	1189 - 1191	Senton
59	Cable Set Cabine 1	RG214		Senton
60	Cable Set Cabine 2	RG214		Senton
61	Cable Set Cabine 3	RG214		Senton
62	Shielded Room	No. 1	1451	Senton
63	Shielded Room	No. 2	1452	Senton
64	Semi-anechoic Chamber	No. 3	1453	Siemens
65	Shielded Room	No. 4	1454	Euroshield
66	Open Area Test Site	EG 1		Senton
67	Test fixture			Senton

**8. Photographs Taken During Testing**

**Photos No. 8.1****Test setup for conducted emission test 450 kHz - 30 MHz**

## Photos No. 8.2

**Test setup for radiated emission pre-test 30 MHz - 1 GHz  
(semi anechoic room) and final test 1 GHZ - 2 GHz**



## Photos No. 8.3

**Test setup for radiated emission final test 30 MHz - 1 GHz  
(open area test site)**



**9. List of Measurements**

**9.1. List of Measurements According To FCC Part 15 Subpart B**

<b>FCC Part 15 Subpart B</b>			
<b>Section(s):</b>	<b>Test</b>	<b>Page(s)</b>	<b>Result</b>
<b>§15.107</b>	Conducted emission test 450 kHz - 30 MHz		Passed
<b>§15.109</b>	Radiated emission test 9 kHz - 30 MHz	---	Not Applicable (acc. to §15.33)
<b>§15.109</b>	Radiated emission test 30 MHz - 1000 MHz		Passed

**9.2. List of Measurements According To Industry Canada RSS-210**

Industry Canada RSS-210 Issue 2			
Section(s):	Test	Page(s)	Result
7.4	Conducted emission test 450 kHz - 30 MHz		Passed
7.3	Radiated emission test 30 MHz - 1000 MHz		Passed

## 10. Referenced Regulations

All tests were performed with reference to the following regulations and standards:

<input checked="" type="checkbox"/>	FCC Part 15 Subpart A	Code of Regulations Part 15 (Radio Frequency Devices), Subpart A (General) of the Federal Communication Commission (FCC)	October 20, 1997
<input checked="" type="checkbox"/>	FCC Part 15 Subpart B	Code of Regulations Part 15 (Radio Frequency Devices), Subpart B (Unintentional Radiators) of the Federal Communication Commission (FCC)	October 20, 1997
<input type="checkbox"/>	FCC Part 15 Subpart C	Code of Regulations Part 15 (Radio Frequency Devices), Subpart C (Intentional Radiators) of the Federal Communication Commission (FCC)	October 20, 1997
<input checked="" type="checkbox"/>	ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz - 40 GHz	October, 1992
<input checked="" type="checkbox"/>	RSS-210	Radio Standards Specification RSS-210 Issue 2 for Low Power Licence-Exempt Radiocommunication Devices of Industry Canada	February 24, 1996

## **11. Test Results**

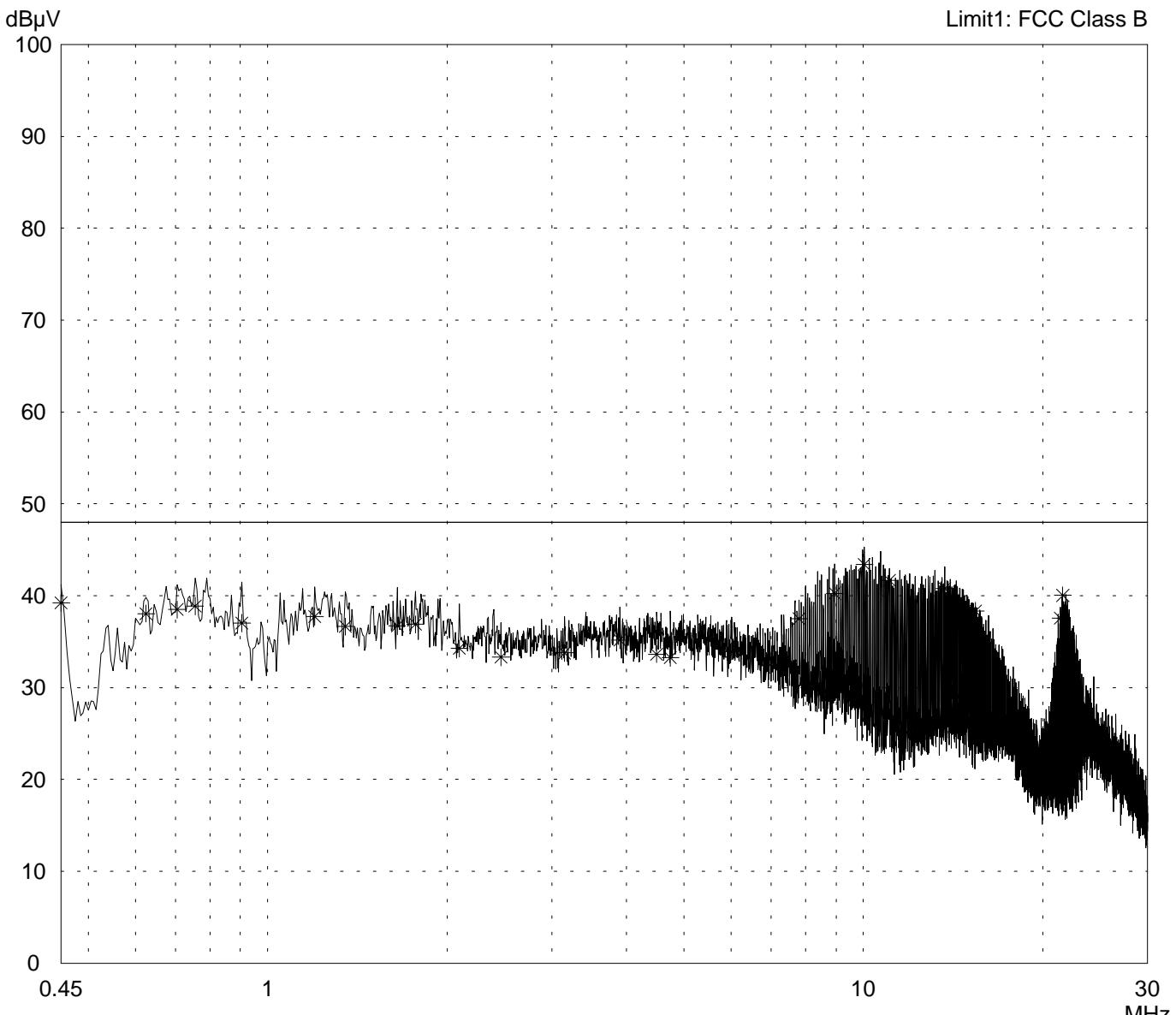
# Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart B Class B

Model: <b>INTERLINK</b>	
Serial no.: --	
Applicant: <b>Futaba Corporation</b>	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord PC (with EUT) Phase L1	
Date of test: <b>11/28/2001</b>	Operator: <b>K. Roidt</b>
Test performed: <b>automatically</b>	File name:

Mode: <b>Normal operation</b>
FCC testsetup

Detector:  
**Peak / Final Results: QP**

Final results:  
**20 dB Margin**      **25 Subranges**



**Result:**  
**Limit kept**

**Project file:**  
**55503-10715**      **Page 25 of 44 Pages**

**Conducted Emission Test 450 kHz - 30 MHz  
according to FCC Part 15 Subpart B Class B**

Model: <b>INTERLINK</b>	
Serial no.: --	
Applicant: <b>Futaba Corporation</b>	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord PC (with EUT) Phase L1	
Date of test: 11/28/2001	Operator: K. Roidt
Test performed: automatically	File name:

Mode: <b>Normal operation</b>	
FCC testsetup	

Detector: Peak / Final Results: QP	
---------------------------------------	--

Final results: 20 dB Margin	25 Subranges
--------------------------------	--------------

Frequency MHz	Reading dB $\mu$ V	Correction factor dB	Value dB $\mu$ V	Limit dB $\mu$ V	Limit exceeded
0.450	39.2		39.2	48.0	
0.625	38.1		38.1	48.0	
0.705	38.5		38.5	48.0	
0.755	38.9		38.9	48.0	
0.905	37.0		37.0	48.0	
1.200	37.7		37.7	48.0	
1.350	36.7		36.7	48.0	
1.650	36.7		36.7	48.0	
1.770	36.9		36.9	48.0	
2.100	34.3		34.3	48.0	
2.465	33.3		33.3	48.0	
3.150	33.8		33.8	48.0	
3.905	35.2		35.2	48.0	
4.500	33.6		33.6	48.0	
4.745	33.2		33.2	48.0	
6.015	33.9		33.9	48.0	
7.805	37.5		37.5	48.0	
8.960	40.3		40.3	48.0	
10.045	43.4		43.4	48.0	
11.070	41.7		41.7	48.0	
13.690	40.8		40.8	48.0	
15.420	38.3		38.3	48.0	
21.435	37.5		37.5	48.0	
21.625	40.0		40.0	48.0	

Result: <b>Limit kept</b>	
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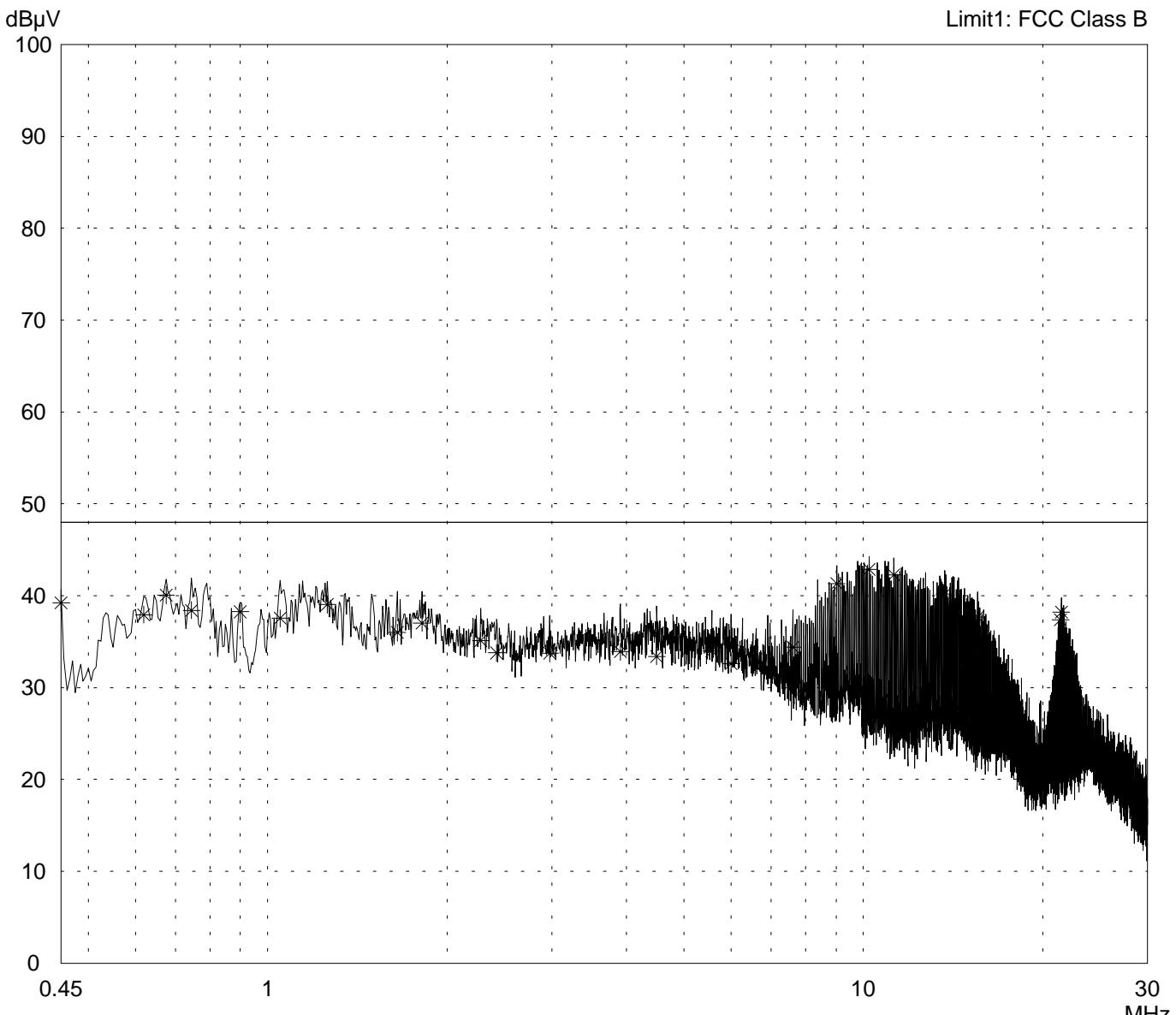
# Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart B Class B

Model: <b>INTERLINK</b>	
Serial no.: --	
Applicant: <b>Futaba Corporation</b>	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord PC (with EUT) Phase N	
Date of test: <b>11/28/2001</b>	Operator: <b>K. Roidt</b>
Test performed: <b>automatically</b>	File name:

Mode: <b>Normal operation</b>
FCC testsetup

Detector:  
**Peak / Final Results: QP**

Final results:  
**20 dB Margin**      **25 Subranges**



**Result:**  
**Limit kept**

**Project file:**  
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**Conducted Emission Test 450 kHz - 30 MHz  
according to FCC Part 15 Subpart B Class B**

Model: <b>INTERLINK</b>	
Serial no.: --	
Applicant: <b>Futaba Corporation</b>	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord PC (with EUT) Phase N	
Date of test: 11/28/2001	Operator: K. Roidt
Test performed: automatically	File name:

Mode: <b>Normal operation</b>
FCC testsetup

Detector: <b>Peak / Final Results: QP</b>
--

Final results: <b>20 dB Margin</b>	<b>25 Subranges</b>
---------------------------------------	---------------------

Frequency MHz	Reading dB $\mu$ V	Correction factor dB	Value dB $\mu$ V	Limit dB $\mu$ V	Limit exceeded
0.450	39.2		39.2	48.0	
0.620	37.9		37.9	48.0	
0.675	40.1		40.1	48.0	
0.745	38.4		38.4	48.0	
0.900	38.2		38.2	48.0	
1.050	37.5		37.5	48.0	
1.260	39.1		39.1	48.0	
1.650	36.0		36.0	48.0	
1.815	37.0		37.0	48.0	
2.280	35.1		35.1	48.0	
2.425	33.8		33.8	48.0	
2.975	33.7		33.7	48.0	
3.910	33.9		33.9	48.0	
4.500	33.4		33.4	48.0	
5.565	34.0		34.0	48.0	
6.000	32.6		32.6	48.0	
7.615	34.4		34.4	48.0	
9.020	41.3		41.3	48.0	
10.235	42.9		42.9	48.0	
11.260	42.3		42.3	48.0	
13.690	40.2		40.2	48.0	
15.545	37.7		37.7	48.0	
21.435	37.4		37.4	48.0	
21.495	38.2		38.2	48.0	

Result: <b>Limit kept</b>
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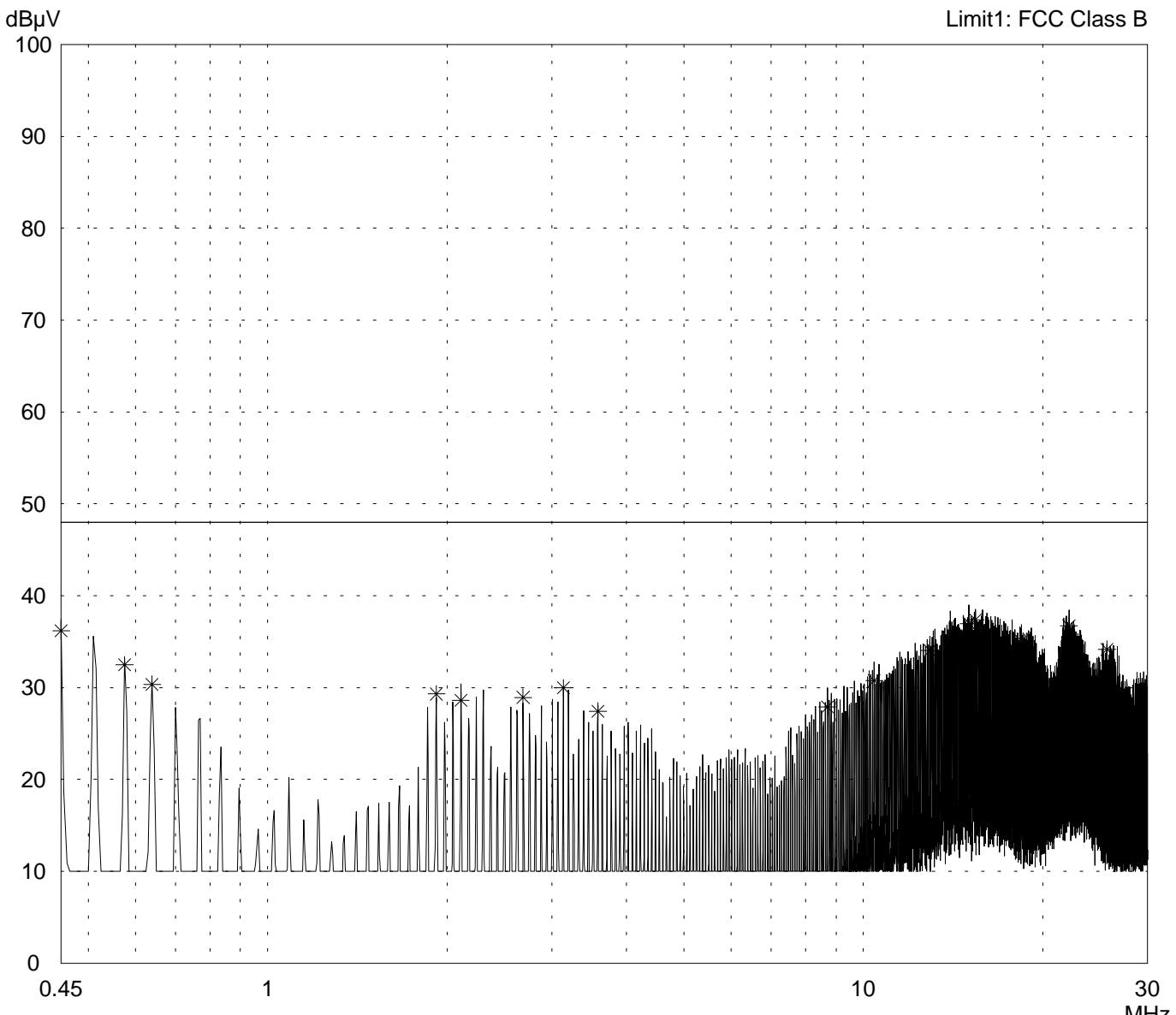
# Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart B Class B

Model: <b>INTERLINK</b>	
Serial no.: --	
Applicant: <b>Futaba Corporation</b>	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord Peripherie Phase L1	
Date of test: <b>11/28/2001</b>	Operator: <b>K. Roidt</b>
Test performed: <b>automatically</b>	File name:

Mode: <b>Normal operation</b>
FCC testsetup

Detector:  
**Peak / Final Results: QP**

Final results:  
**20 dB Margin**      **25 Subranges**



**Result:**  
**Limit kept**

**Project file:**  
**55503-10715**

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**Conducted Emission Test 450 kHz - 30 MHz  
according to FCC Part 15 Subpart B Class B**

Model: <b>INTERLINK</b>	
Serial no.: --	
Applicant: <b>Futaba Corporation</b>	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord Peripherie Phase L1	
Date of test: 11/28/2001	Operator: K. Roidt
Test performed: automatically	File name:

Mode: <b>Normal operation</b>
FCC testsetup

Detector: <b>Peak / Final Results: QP</b>
--

Final results: <b>20 dB Margin</b>	<b>25 Subranges</b>
---------------------------------------	---------------------

Frequency MHz	Reading dB $\mu$ V	Correction factor dB	Value dB $\mu$ V	Limit dB $\mu$ V	Limit exceeded
0.450	36.2		36.2	48.0	
0.575	32.5		32.5	48.0	
0.640	30.3		30.3	48.0	
1.920	29.3		29.3	48.0	
2.110	28.6		28.6	48.0	
2.685	28.9		28.9	48.0	
3.135	30.0		30.0	48.0	
3.585	27.4		27.4	48.0	
8.700	27.9		27.9	48.0	
10.430	30.7		30.7	48.0	
12.925	34.0		34.0	48.0	
15.035	37.0		37.0	48.0	
15.420	37.4		37.4	48.0	
18.425	35.0		35.0	48.0	
22.135	36.7		36.7	48.0	
25.655	34.2		34.2	48.0	

Result: <b>Limit kept</b>
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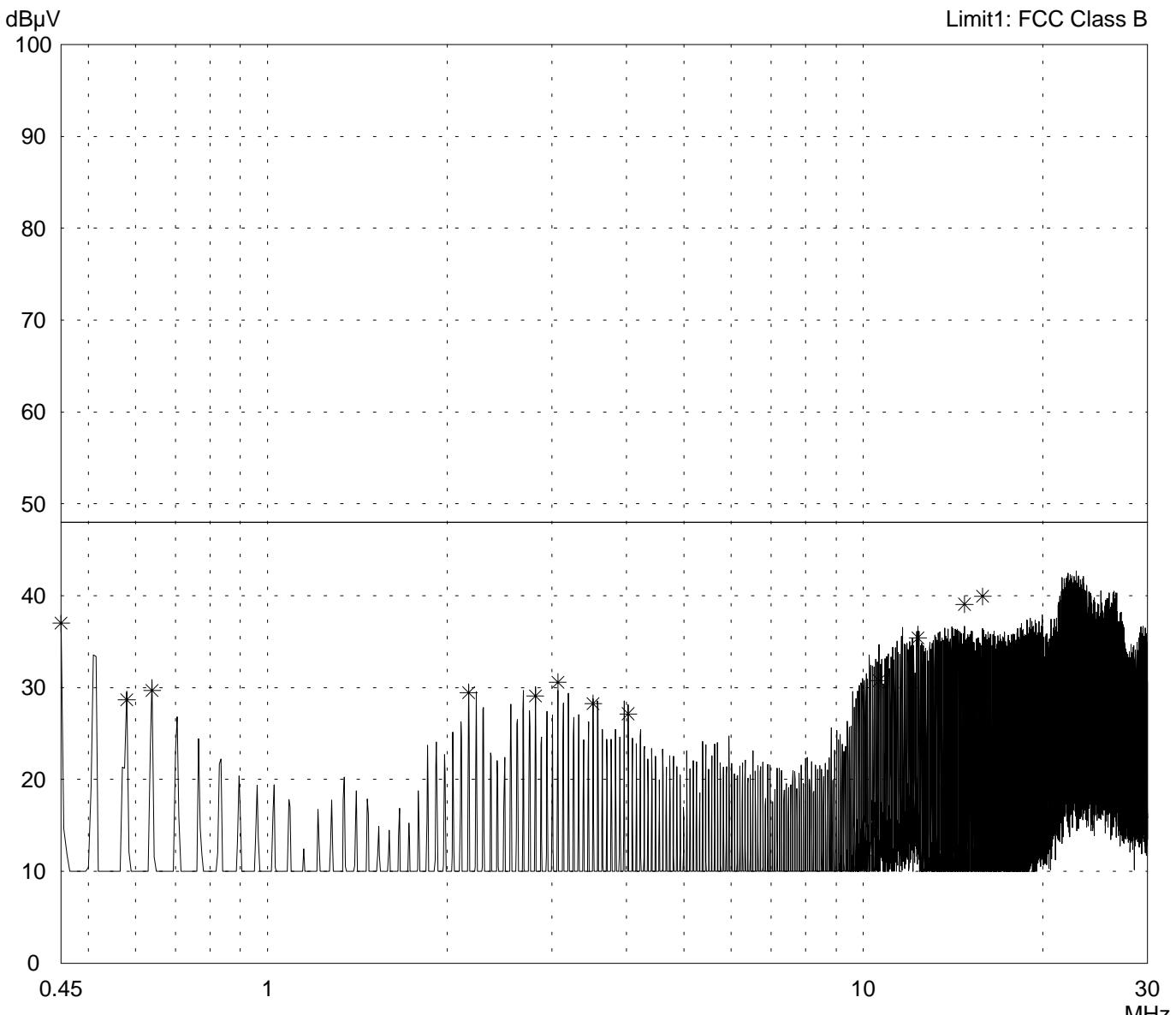
# Conducted Emission Test 450 kHz - 30 MHz according to FCC Part 15 Subpart B Class B

Model: <b>INTERLINK</b>	
Serial no.: --	
Applicant: <b>Futaba Corporation</b>	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord Peripherie Phase N	
Date of test: <b>11/28/2001</b>	Operator: <b>K. Roidt</b>
Test performed: <b>automatically</b>	File name:

Mode: <b>Normal operation</b>
FCC testsetup

Detector:  
**Peak / Final Results: QP**

Final results:  
**20 dB Margin**      **25 Subranges**



**Result:**  
**Limit kept**

**Project file:**  
**55503-10715**

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**Conducted Emission Test 450 kHz - 30 MHz  
according to FCC Part 15 Subpart B Class B**

Model: <b>INTERLINK</b>	
Serial no.: --	
Applicant: <b>Futaba Corporation</b>	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord Peripherie Phase N	
Date of test: 11/28/2001	Operator: K. Roidt
Test performed: automatically	File name:

Mode: <b>Normal operation</b>
FCC testsetup

Detector: <b>Peak / Final Results: QP</b>
--

Final results: <b>20 dB Margin</b>	<b>25 Subranges</b>
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<i>Frequency</i> MHz	<i>Reading</i> dB $\mu$ V	<i>Correction factor</i> dB	<i>Value</i> dB $\mu$ V	<i>Limit</i> dB $\mu$ V	<i>Limit exceeded</i>
0.450	37.0		37.0	48.0	
0.580	28.7		28.7	48.0	
0.640	29.7		29.7	48.0	
2.175	29.5		29.5	48.0	
2.815	29.1		29.1	48.0	
3.070	30.6		30.6	48.0	
3.520	28.3		28.3	48.0	
4.030	27.2		27.2	48.0	
10.620	30.8		30.8	48.0	
12.350	35.4		35.4	48.0	
14.780	39.1		39.1	48.0	
15.865	39.9		39.9	48.0	
21.370	32.5		32.5	48.0	
22.775	36.3		36.3	48.0	
26.360	33.3		33.3	48.0	

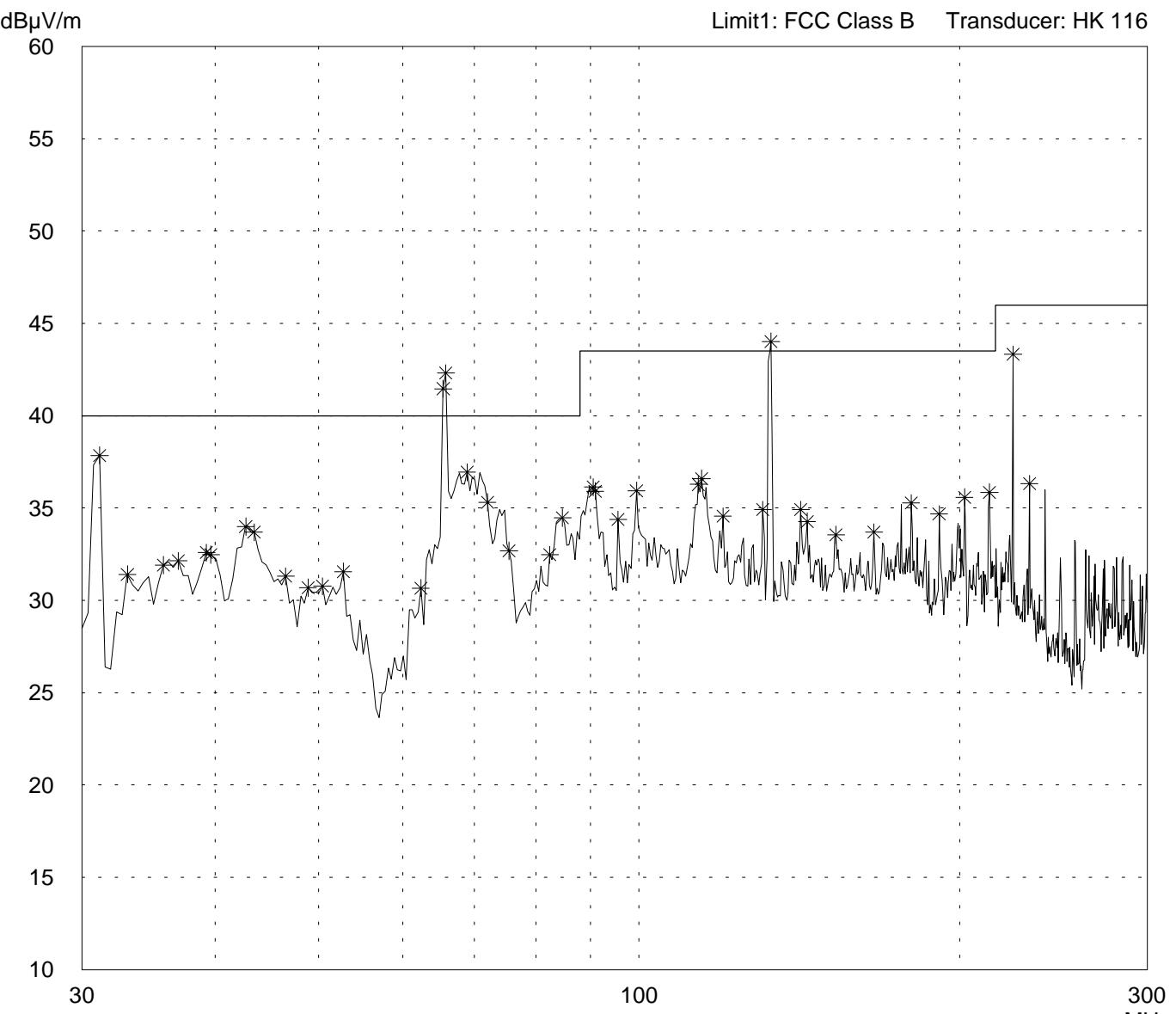
<b>Result:</b> <b>Limit kept</b>
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<b>Project file:</b> <b>55503-10715</b>	<b>Page 32 of 44 Pages</b>
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# Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart B Class B

Model: <b>INTERLINK</b>	
Serial no.: --	
Applicant: <b>Futaba Corporation</b>	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 11/28/2001	Operator: K. Roidt
Test performed: automatically	File name:

Mode: Normal operation
FCC testsetup



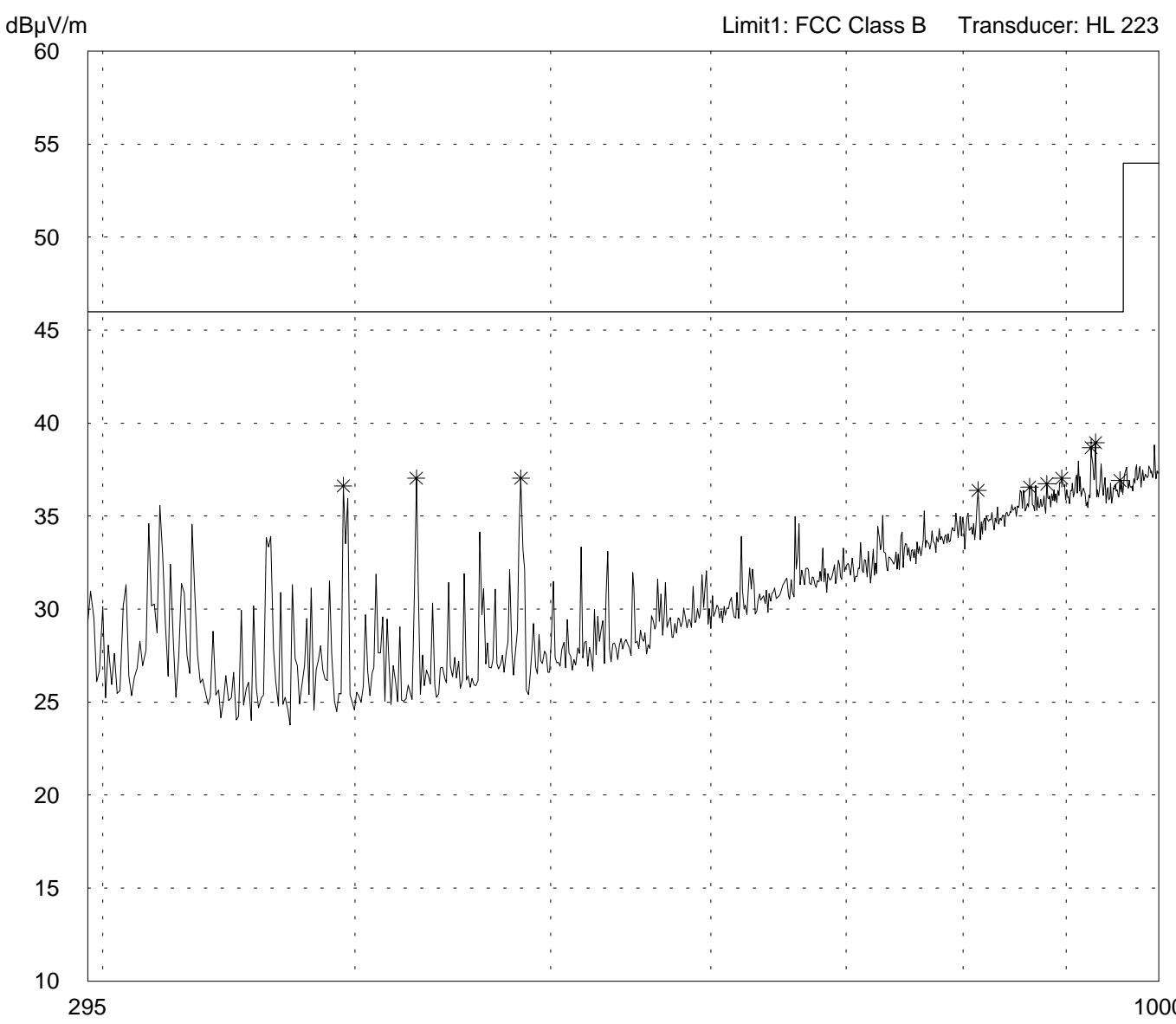
Result: <b>Prescan</b>
---------------------------

Project file: <b>55503-10715</b>
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# Radiated Emission Test 295 MHz - 1 GHz according to FCC Part 15 Subpart B Class B

Model: <b>INTERLINK</b>	
Serial no.: --	
Applicant: <b>Futaba Corporation</b>	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 11/28/2001	Operator: K. Roidt
Test performed: automatically	File name:

Mode: Normal operation
FCC testsetup



Result:  
**Prescan**

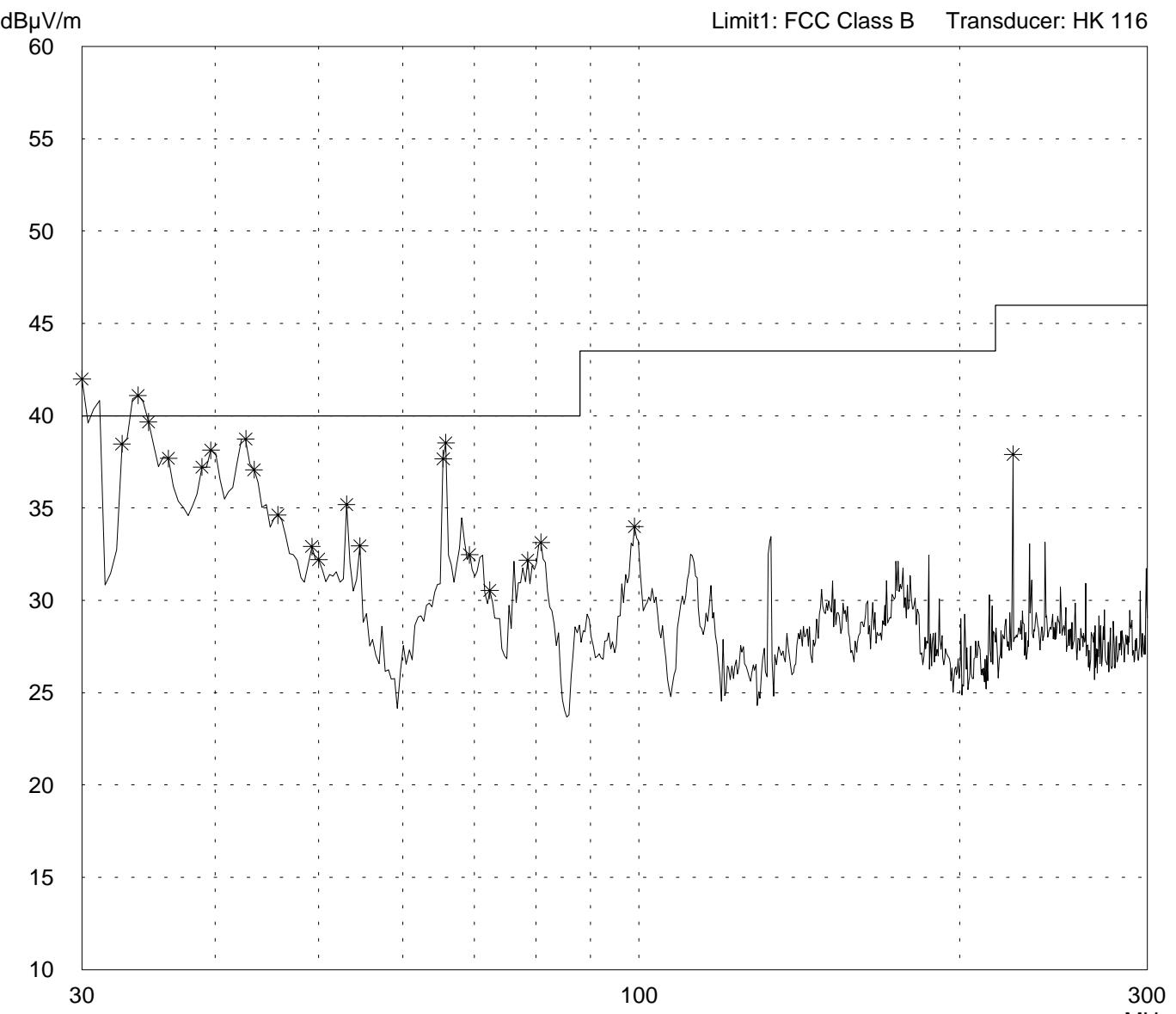
Project file:  
**55503-10715**

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# Radiated Emission Test 30 MHz - 300 MHz according to FCC Part 15 Subpart B Class B

Model: <b>INTERLINK</b>	
Serial no.: --	
Applicant: <b>Futaba Corporation</b>	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 11/28/2001	Operator: K. Roidt
Test performed: automatically	File name:

Mode: <b>Normal operation</b>
FCC testsetup



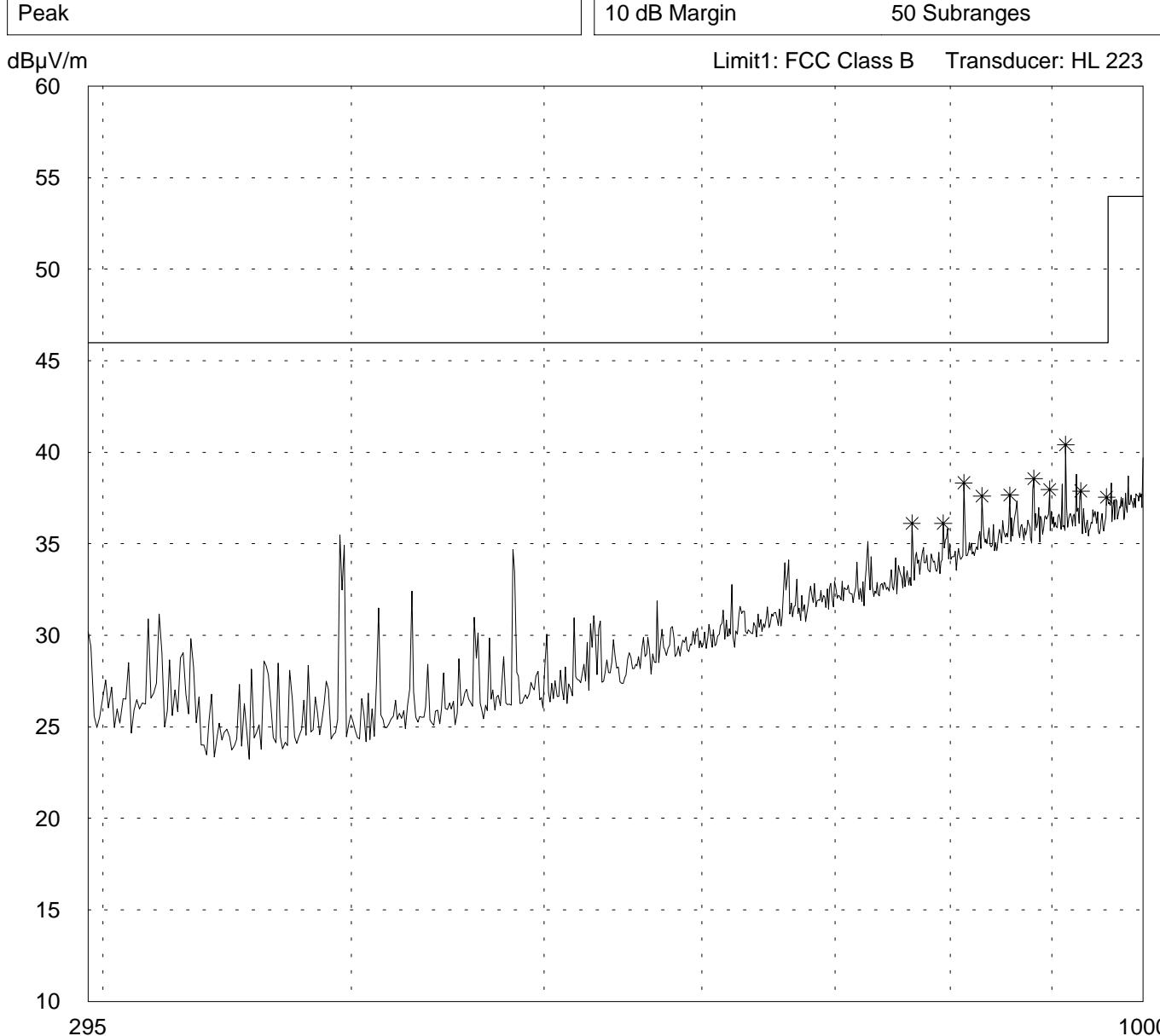
Result: <b>Prescan</b>
---------------------------

Project file: <b>55503-10715</b>
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# Radiated Emission Test 295 MHz - 1 GHz according to FCC Part 15 Subpart B Class B

Model: <b>INTERLINK</b>	
Serial no.: --	
Applicant: <b>Futaba Corporation</b>	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 11/28/2001	Operator: K. Roidt
Test performed: automatically	File name:

Mode: Normal operation
FCC testsetup



Result: <b>Prescan</b>
---------------------------

Project file: <b>55503-10715</b>
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Radiated Emission Test 30 MHz - 1 GHz  
according to FCC Part 15 Subpart B Class B

Model:  
**INTERLINK**

---

Serial no.:  
--

---

Applicant:  
**Futaba Corporation**

---

Test site:  
**Open area test-site I**

---

Tested on:  
**Test distance 3 metres**  
**Horizontal Polarization**

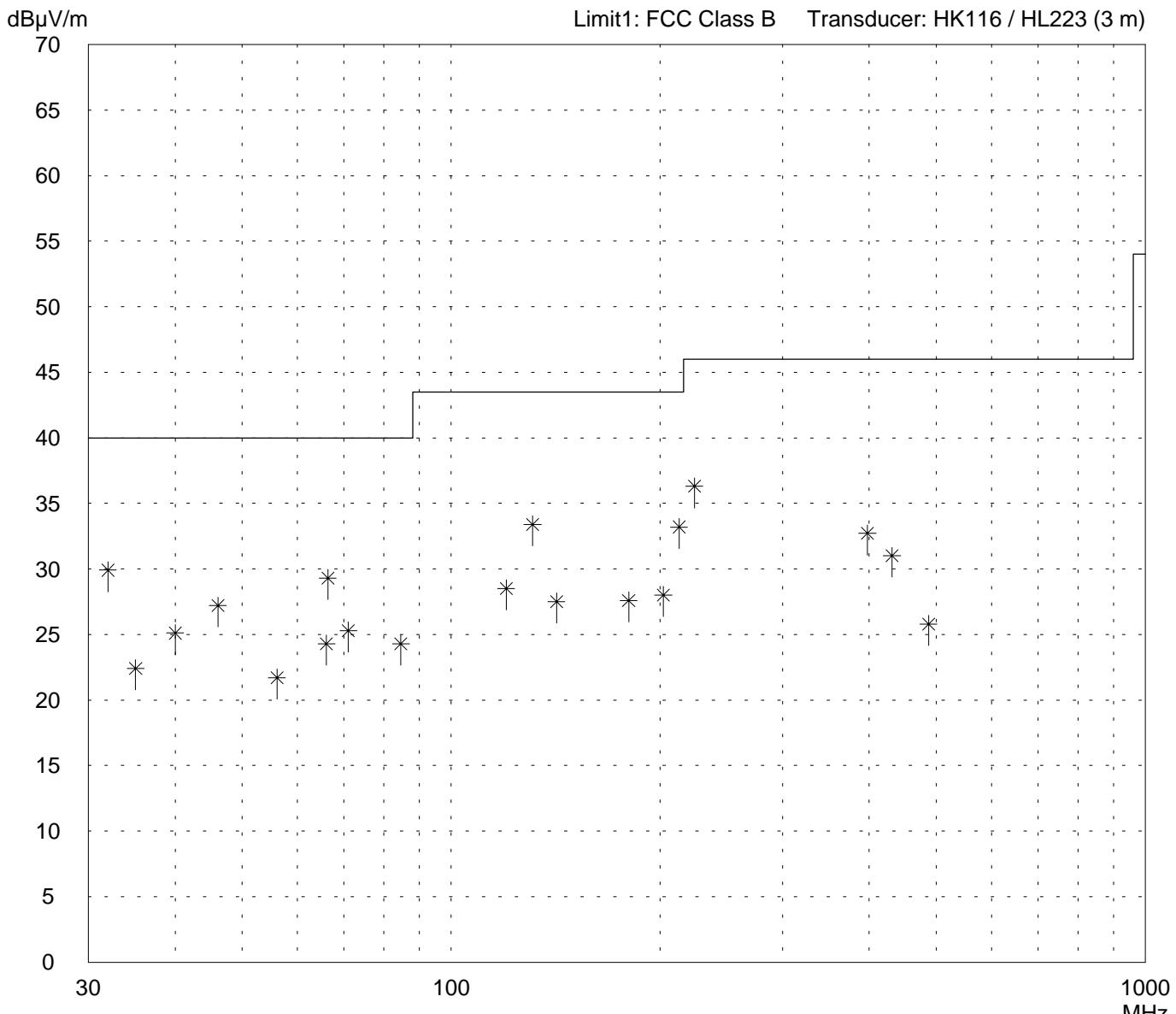
---

Date of test: <b>11/28/2001</b>	Operator: <b>K. Roidt</b>
Test performed: <b>by hand</b>	File name:

---

Detector:  
**Quasi-Peak**

Mode:  
Normal operation  
  
FCC testsetup



Result:  
Limit kept

Project file:  
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**Radiated Emission Test 30 MHz - 1 GHz**  
**according to FCC Part 15 Subpart B Class B**

Model:  
**INTERLINK**

Serial no.:  
**--**

Applicant:  
**Futaba Corporation**

Test site:  
**Open area test-site I**

Tested on:  
**Test distance 3 metres**  
**Horizontal Polarization**

Date of test: **11/28/2001**      Operator: **K. Roidt**

Test performed: **by hand**      File name:

Mode:  
**Normal operation**

FCC testsetup

Detector:  
**Quasi-Peak**

List of values:  
**Selected by hand**

<i>Frequency MHz</i>	<i>Reading dB<math>\mu</math>V</i>	<i>Correction factor dB</i>	<i>Value dB<math>\mu</math>V/m</i>	<i>Limit dB<math>\mu</math>V/m</i>	<i>Limit exceeded</i>
32.0	15.2	14.7	29.9	40.0	
35.1	8.5	13.9	22.4	40.0	
40.0	12.2	12.9	25.1	40.0	
46.1	15.2	12.0	27.2	40.0	
56.1	10.5	11.2	21.7	40.0	
66.1	13.5	10.8	24.3	40.0	
66.4	18.5	10.8	29.3	40.0	
71.1	14.5	10.8	25.3	40.0	
84.6	13.2	11.1	24.3	40.0	
120.0	14.0	14.5	28.5	43.5	
131.0	18.1	15.3	33.4	43.5	
141.8	11.6	15.9	27.5	43.5	
180.1	9.7	17.9	27.6	43.5	
202.1	8.9	19.1	28.0	43.5	
212.9	13.8	19.4	33.2	43.5	
224.0	16.5	19.8	36.3	46.0	
397.7	10.4	22.3	32.7	46.0	
431.5	7.8	23.2	31.0	46.0	
487.2	1.2	24.6	25.8	46.0	

Result:  
**Limit kept**

Project file:  
**55503-10715**

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# Radiated Emission Test 30 MHz - 1 GHz according to FCC Part 15 Subpart B Class B

Model:  
**INTERLINK**

Serial no.:  
--

Applicant:  
**Futaba Corporation**

Test site:  
**Open area test-site I**

Tested on:  
**Test distance 3 metres**  
**Vertical Polarization**

Date of test: **11/28/2001** Operator: **K. Roidt**

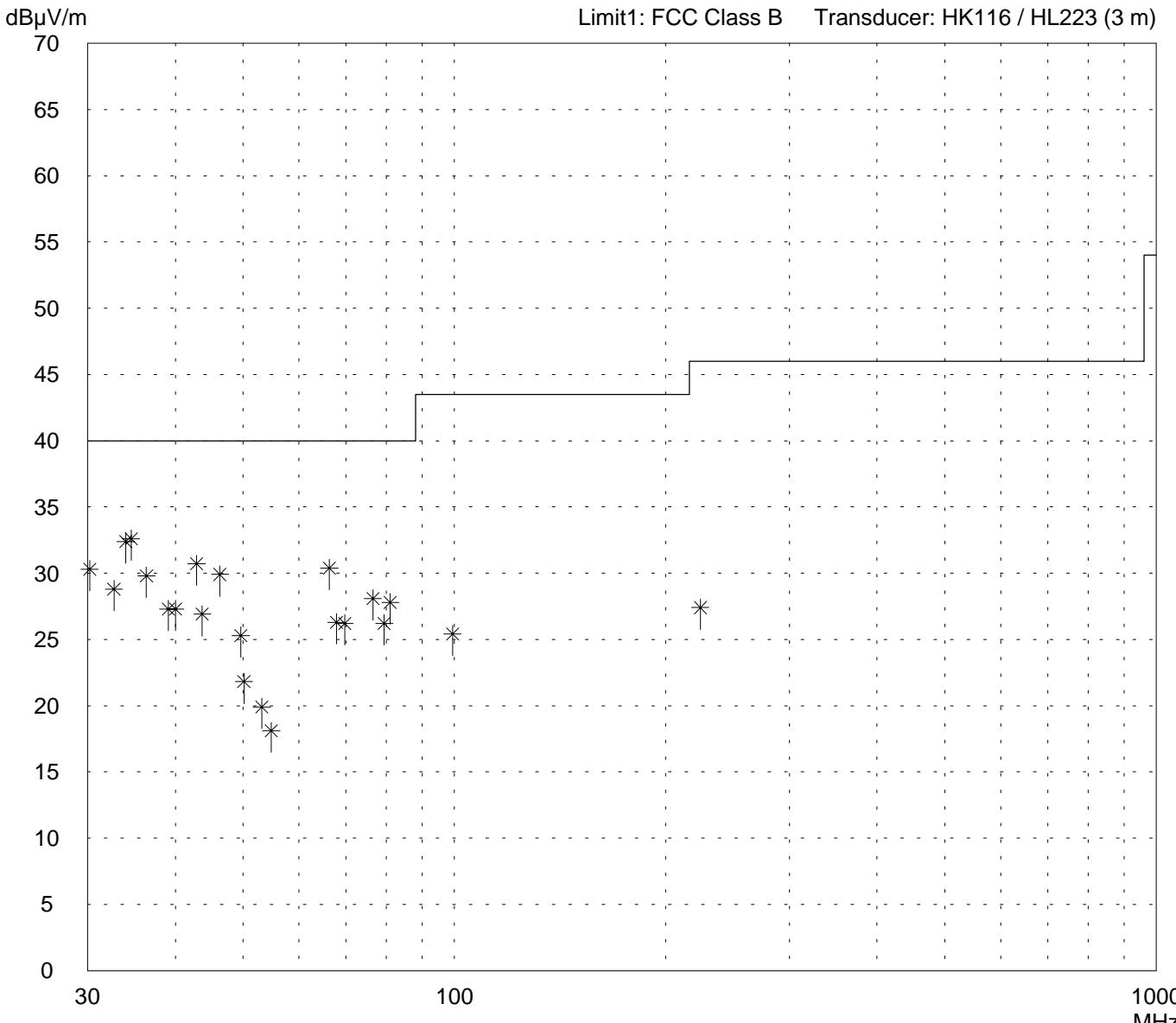
Test performed: **by hand** File name:

Mode:  
**Normal operation**

FCC testsetup

Detector:  
**Quasi-Peak**

List of values:  
**Selected by hand**



Result:  
**Limit kept**

Project file:  
**55503-10715**

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**Radiated Emission Test 30 MHz - 1 GHz**  
**according to FCC Part 15 Subpart B Class B**

Model: INTERLINK	
Serial no.: --	
Applicant: Futaba Corporation	
Test site: Open area test-site I	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 11/28/2001	Operator: K. Roidt
Test performed: by hand	File name:

Mode: Normal operation
FCC testsetup

Detector: Quasi-Peak
-------------------------

List of values: Selected by hand
-------------------------------------

Frequency MHz	Reading dB $\mu$ V	Correction factor dB	Value dB $\mu$ V/m	Limit dB $\mu$ V/m	Limit exceeded
30.20	15.2	15.1	30.3	40.0	
32.70	14.3	14.5	28.8	40.0	
34.00	18.3	14.1	32.4	40.0	
34.60	18.6	14.0	32.6	40.0	
36.40	16.2	13.6	29.8	40.0	
39.10	14.2	13.1	27.3	40.0	
40.00	14.4	12.9	27.3	40.0	
42.90	18.3	12.4	30.7	40.0	
43.70	14.6	12.3	26.9	40.0	
46.30	17.9	12.0	29.9	40.0	
49.58	13.7	11.6	25.3	40.0	
50.10	10.2	11.6	21.8	40.0	
53.14	8.5	11.4	19.9	40.0	
54.80	6.9	11.2	18.1	40.0	
66.30	19.6	10.8	30.4	40.0	
67.90	15.5	10.8	26.3	40.0	
69.70	15.4	10.8	26.2	40.0	
76.50	17.2	10.9	28.1	40.0	
79.40	15.3	10.9	26.2	40.0	
81.00	16.8	11.0	27.8	40.0	
99.30	13.3	12.1	25.4	43.5	
224.00	7.6	19.8	27.4	46.0	

Result: Limit kept
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Radiated Emission Test 1 GHz - 2 GHz  
according to FCC Part 15 Subpart B Class B

Model:  
**INTERLINK**

Serial no.:  
--

Applicant:  
**Futaba Corporation**

Test site:  
Semi anechoic room, cabin no. 3

Tested on:  
Test distance 3 metres  
Horizontal Polarization

Date of test:                  Operator:  
**11/28/2001**                  **K. Roidt**

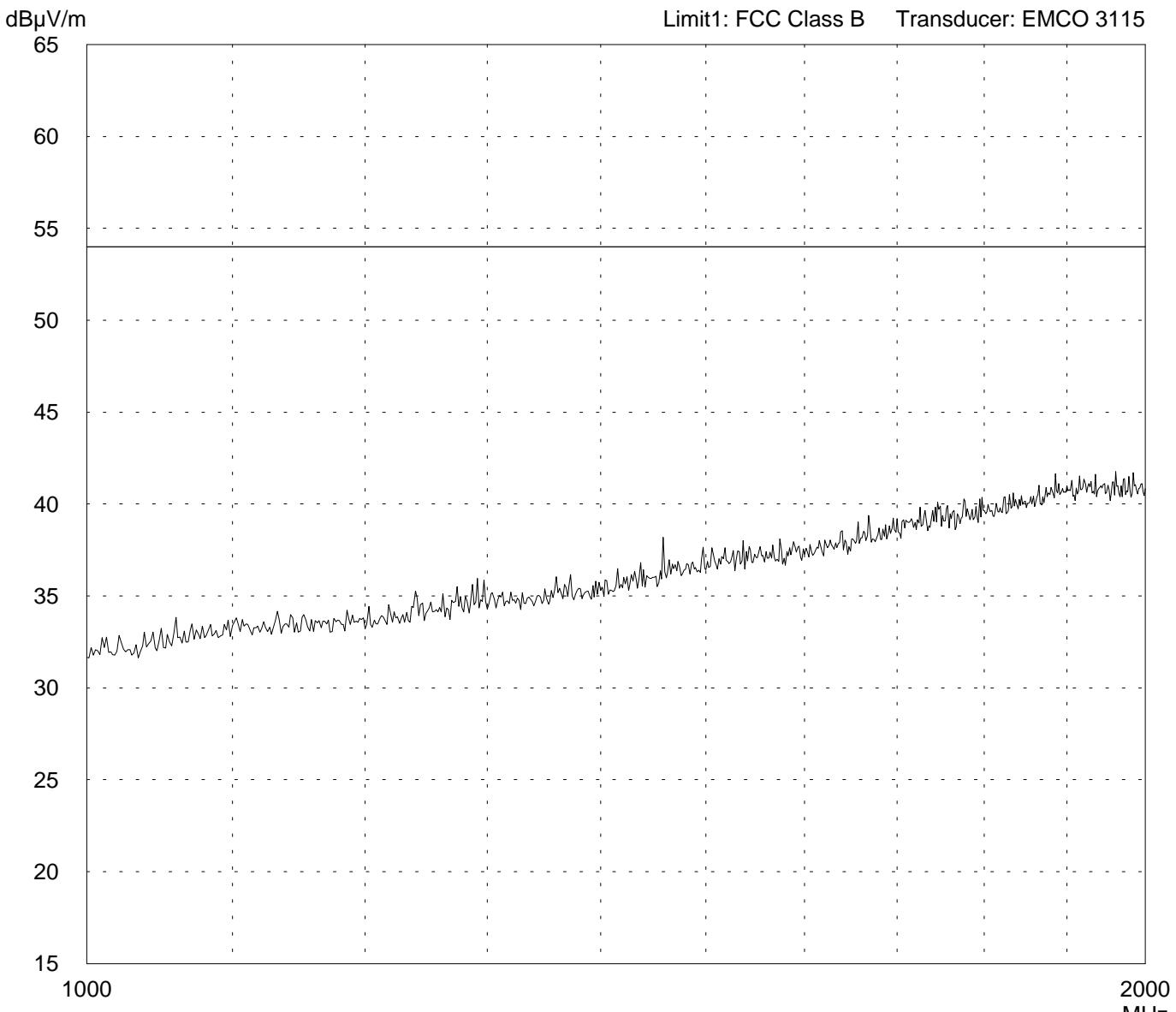
Test performed:                  File name:  
**automatically**

Mode:  
**Normal operation**

FCC testsetup

Detector:  
**Peak**

List of values:  
**10 dB Margin**                  **50 Subranges**



**Result:**  
**Limit kept**

**Project file:**  
**55503-10715**

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**Radiated Emission Test 1 GHz - 2 GHz  
according to FCC Part 15 Subpart B Class B**

Model: <b>INTERLINK</b>	
Serial no.: --	
Applicant: <b>Futaba Corporation</b>	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 11/28/2001	Operator: K. Roidt
Test performed: automatically	File name:

Mode: Normal operation	
FCC testsetup	

Detector: <b>Peak</b>
--------------------------

List of values: 10 dB Margin	50 Subranges
---------------------------------	--------------

<i>Frequency MHz</i>	<i>Reading dB<math>\mu</math>V</i>	<i>Correction factor dB</i>	<i>Value dB<math>\mu</math>V/m</i>	<i>Limit dB<math>\mu</math>V/m</i>	<i>Limit exceeded</i>
no results					

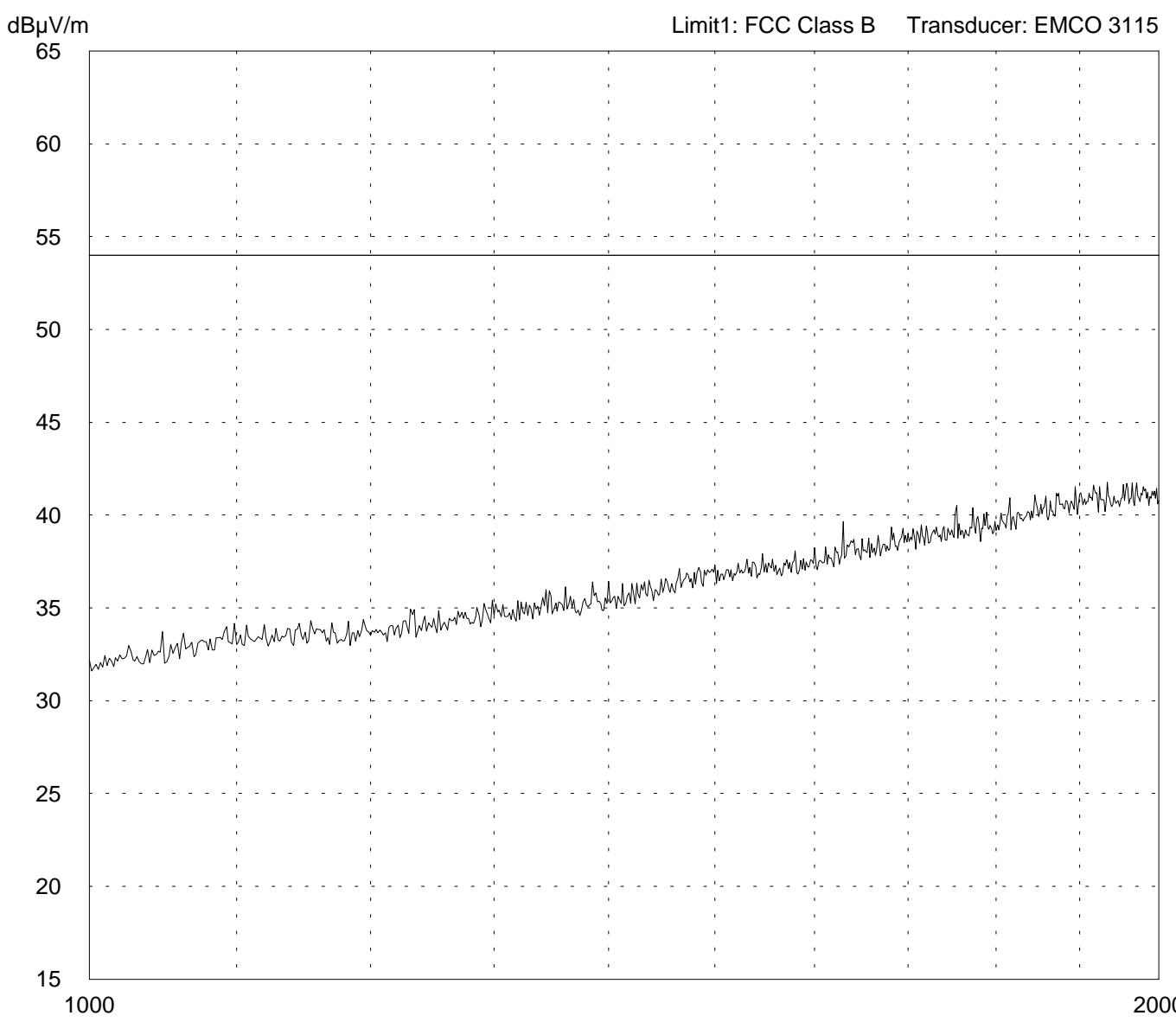
<b>Result:</b> Limit kept
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# Radiated Emission Test 1 GHz - 2 GHz according to FCC Part 15 Subpart B Class B

Model: <b>INTERLINK</b>
Serial no.: --
Applicant: <b>Futaba Corporation</b>
Test site: Semi anechoic room, cabin no. 3
Tested on: Test distance 3 metres Vertical Polarization
Date of test: 11/28/2001      Operator: K. Roidt
Test performed: automatically      File name:

Mode: Normal operation
FCC testsetup



Result:  
Limit kept

Project file:  
**55503-10715**

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**Radiated Emission Test 1 GHz - 2 GHz  
according to FCC Part 15 Subpart B Class B**

Model: <b>INTERLINK</b>	
Serial no.: --	
Applicant: <b>Futaba Corporation</b>	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 11/28/2001	Operator: K. Roidt
Test performed: automatically	File name:

Mode: Normal operation	
FCC testsetup	

Detector: <b>Peak</b>
--------------------------

List of values: 10 dB Margin	50 Subranges
---------------------------------	--------------

<i>Frequency MHz</i>	<i>Reading dB<math>\mu</math>V</i>	<i>Correction factor dB</i>	<i>Value dB<math>\mu</math>V/m</i>	<i>Limit dB<math>\mu</math>V/m</i>	<i>Limit exceeded</i>
no results					

Result: <b>Limit kept</b>
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