

FCC TEST REPORT

according to

FCC Part 15, Subpart C (15.231) / ANSI C63.4: 2003

Applicant	Mommy I'm Here Inc.
Address	4428 Technology Drive, Fremont, CA, 94538, USA
Equipment	Child Locator & Alert
Model No.	CL-305
FCC ID	SQR-CL305S
Trade Name	Mommy I'm Here Inc.

Laboratory Accreditation



- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of **Exclusive Certification Corp.** the test report shall not be reproduced except in full.

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CERTIFICATE OF COMPLIANCE

according to

FCC Part 15, Subpart C (15.231) / ANSI C63.4: 2003

Applicant	Mommy I'm Here Inc.
Address	4428 Technology Drive, Fremont, CA, 94538, USA
Equipment	Child Locator & Alert
Model No.	CL-305
FCC ID	SQR-CL305S

I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4**. The equipment was **passed** the test performed according to **FCC Part 15, Subpart C (15.231) / ANSI C63.4: 2003**.

The test was carried out on May. 30, 2008 at **Exclusive Certification Corp.**

Signature


Anson Chou / Manager

1. Report of Measurements and Examinations

1.1. List of Measurements and Examinations

FCC Rule	Test Type	Result	Remark
15.207	Conducted Emission	N/A	6Vdc from batteries
15.209 15.231	Radiated Emission	Pass	Minimum Passing margin is -7.98dB at 946.80MHz
15.231	20 dB Occupied Bandwidth Measurement	Pass	Meet the requirement of limit

Note: the information of measurement uncertainty is available upon the customer's request.

2. Test Configuration of Equipment under Test

2.1. Test Mode and Test Software

One channel is provided in the EUT:

Channel	Frequency
1	433.92 MHz

NOTE: Since the EUT is considered a portable unit, it was pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane. There for only the test data of this Z-plane was used for Radiated test.

2.2. Description of Test System

Device	Manufacturer	Model No.	Description
N/A			

2.3. Connection Diagram of Test System



2.4. Feature of Equipment under Test

- A compact, lovely Teddy Bear Shaped Two Way Baby Alert.
- Combines functions of Baby Locator and Baby Proximeter into one set of devices. It's a friendly-use alert for baby guard, especially in crowded spots, such as: stores, supermarkets, etc.

2.5. RF Module Specifications

Modulation	99% FSK
Power Supply(Nominal)	6VDC
Operation Frequency	433.92MHz
Antenna Gain	-8.13 dBi

☐ Additional attachment as following record:

[illegible]

3. General Information of Test

Test Site:	Exclusive Certification Corp. 4F-2, No. 28, Lane 78, Xing-Ai Rd. Nei-hu, Taipei City 114 Taiwan R.O.C.
Test Site Location (OATS1-SD):	No.68-1, Shihbachongsi, shihding Township, Taipei County 223, Taiwan, R.O.C.
FCC Registration Number	632249
Test Voltage:	DC 6V from Battery
Test in Compliance with:	FCC Part 15, Subpart C (15.231) / ANSI C63.4: 2001
Frequency Range Investigated:	Radiation: from 30 MHz to 4500 MHz
Modulation Type:	FSK
Test Distance:	The test distance of radiated emission above 1GHz from antenna to EUT is 3 M.

4. Test of Radiated Emission

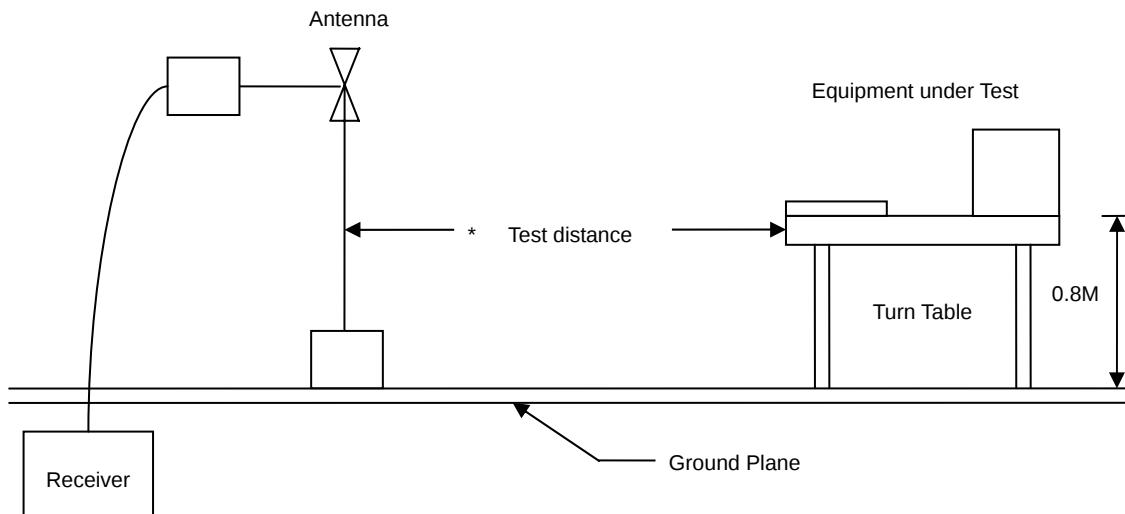
4.1. Test Procedures

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.
- "Cone of radiation" has been considered to be 3dB beamwidth of the measurement antenna.

NOTE:

- (1) The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- (2) The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
- (3) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

4.2. Typical Test Setup Layout of Radiated Emission



4.3. Limits of Radiated Emission

According to 15.231 the field strength of emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

Frequency (MHz)	Field Strength of Fundamental		Field Strength of Spurious	
	$\mu\text{V}/\text{m}$	$\text{dB}\mu\text{V}/\text{m}$	$\mu\text{V}/\text{m}$	$\text{dB}\mu\text{V}/\text{m}$
40.66 ~ 40.70	2250	67.04	225	48.04
70 ~130	1250	61.94	125	41.94
130 ~ 174	1250 ~ 3750	61.94 ~ 71.48	125 ~ 375	41.94 ~ 51.48
174 ~ 260	3750	71.48	375	51.48
260 ~ 470	3750 ~ 12500	71.48 ~ 81.94	375 ~ 1250	51.48 ~ 61.94
Above 470	12500	81.94	1250	61.94

NOTE:

- (1) Where F is the frequency in MHz, the formula for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, $\mu\text{V}/\text{m}$ at 3 meters = $56.81818(F)-6136.3636$; for the band 260-470 MHz, $\mu\text{V}/\text{m}$ at 3 meters = $41.6667(F)-7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.
- (2) The above field strength limits are specified at a distance of 3meters. The tighter limits apply at the band edges.

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequency (MHz)	Distance	Limit ($\mu\text{V}/\text{m}$)
0.09 ~ 0.490	300m	$2400/F(\text{kHz})$
0.490 ~ 1.705	30m	$24000/ F(\text{kHz})$
1.705 ~ 30	30m	30
30 ~ 88	3m	100
88 ~ 216	3m	150
216 ~ 960	3m	200
Above 960	3m	500

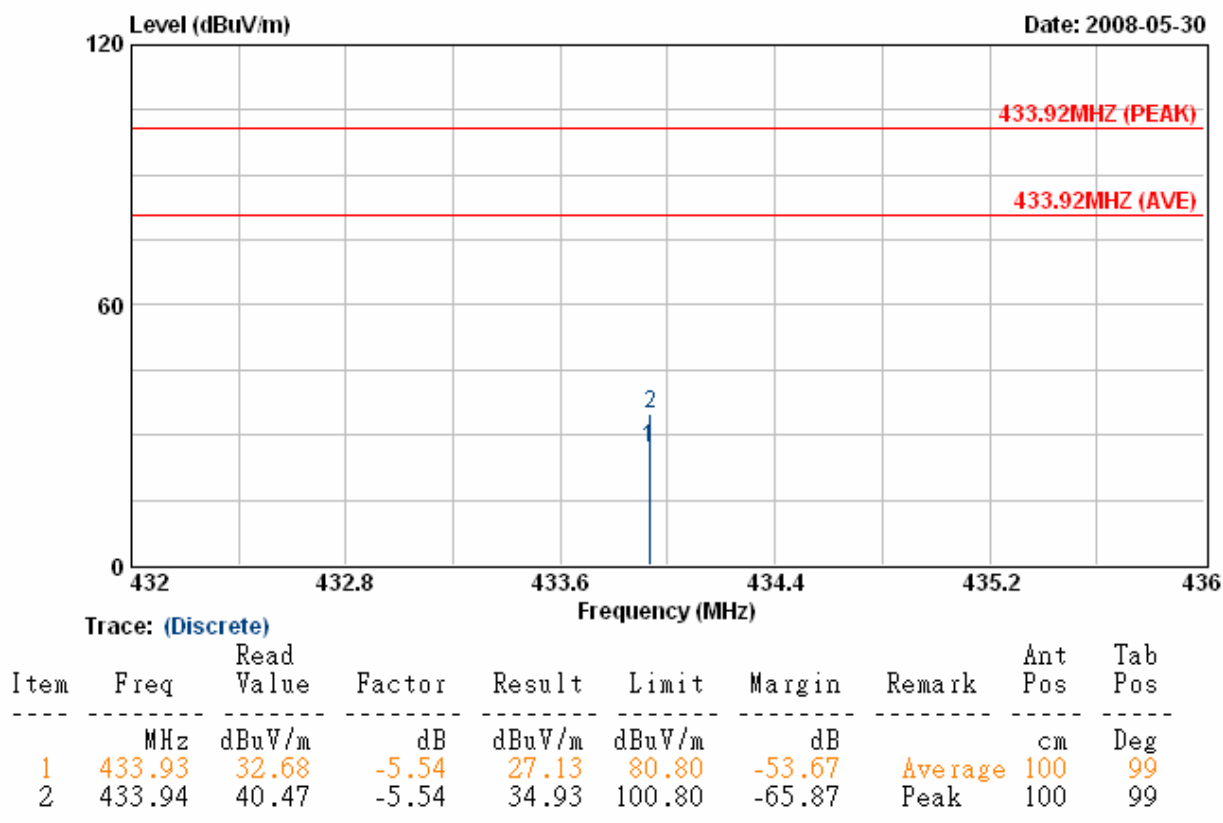
As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.4. Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Receiver	85460A	HP	3807A00454	2007/06/05	2008/06/04
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21
Horn Antenna	3115	EMCO	31589	2008/03/28	2009/03/27
Horn Antenna	3116	EMCO	31970	2008/04/08	2009/04/07
Bilog Antenna	CBL6112B	Schaffner	2840	2008/04/26	2009/04/25
Amplifier	8449B	Agilent	3008A01954	2008/01/24	2009/01/23
Amplifier	8447D	Agilent	2944A10531	2007/09/26	2008/09/25

4.5. Test Result of Radiated Emission

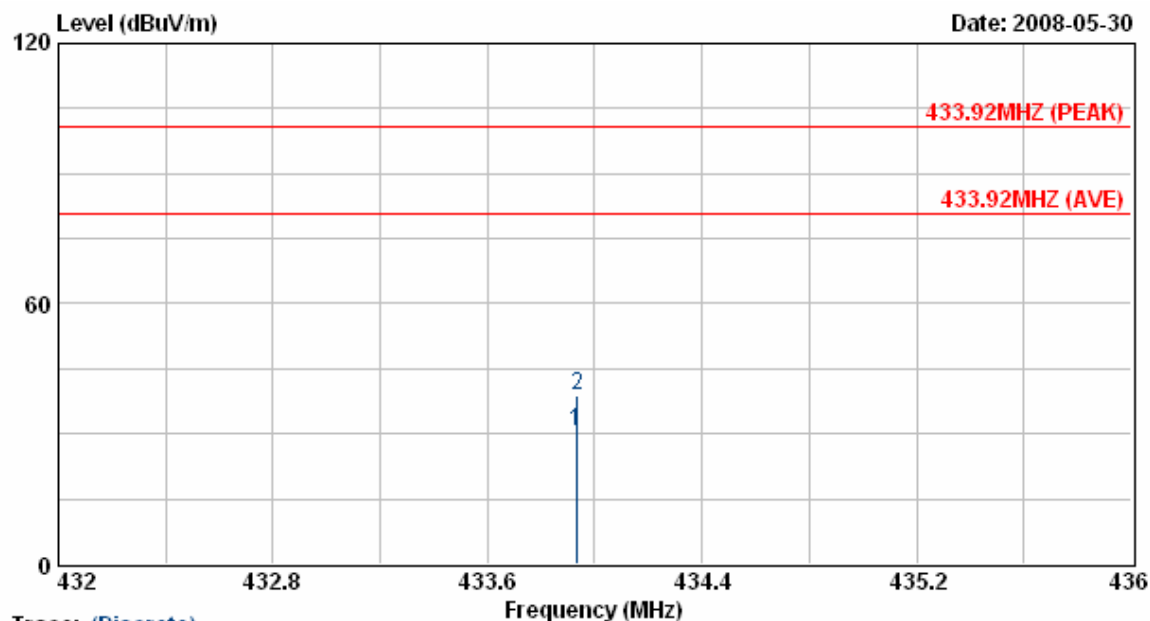
Power	: DC 6V	Pol/Phase	: VERTICAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: X	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	: Bear		



Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	: DC 6V	Pol/Phase	: HORIZONTAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: X	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	: Bear		



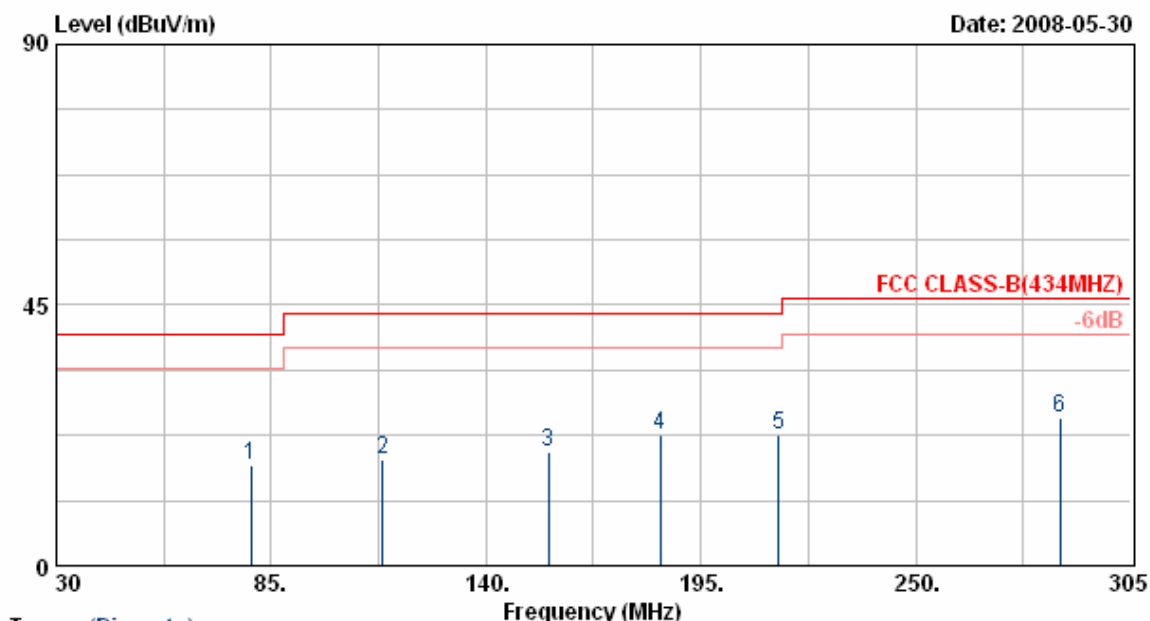
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Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	433.93	40.06	-9.34	30.71	80.80	-50.09	Average	100	155
2	433.94	48.09	-9.34	38.74	100.80	-62.06	Peak	100	155

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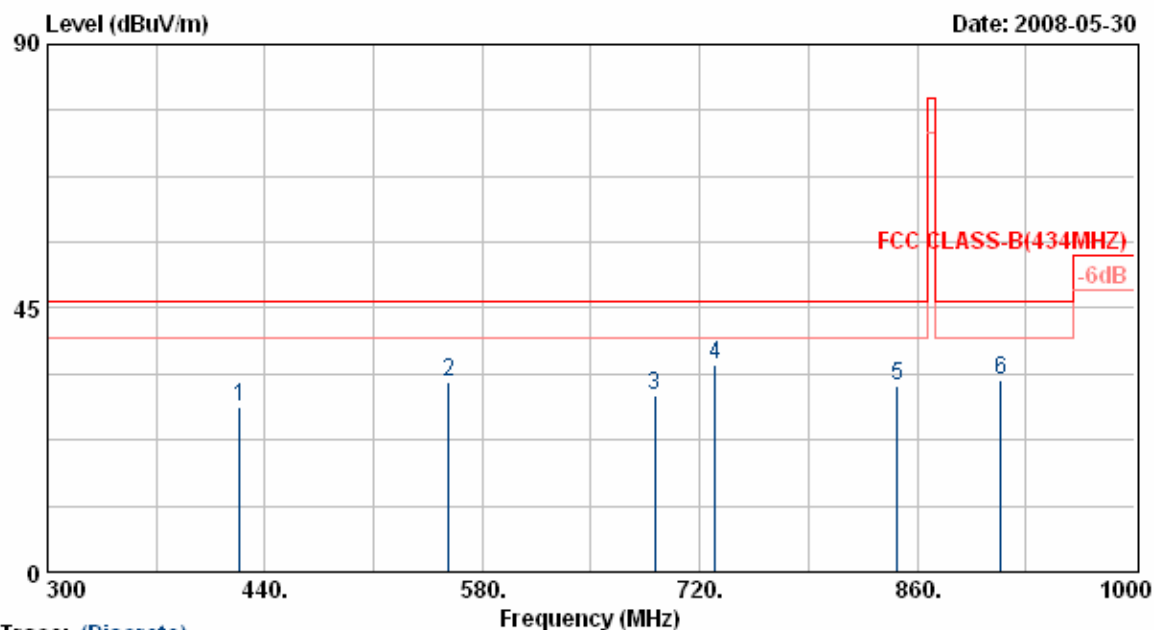
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Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	79.78	33.63	-16.22	17.41	40.00	-22.59	Peak	100	124
2	113.60	31.13	-12.88	18.25	43.50	-25.25	Peak	100	112
3	155.95	31.37	-11.82	19.55	43.50	-23.95	Peak	100	48
4	184.55	32.00	-9.51	22.49	43.50	-21.01	Peak	100	97
5	214.80	34.08	-11.64	22.44	43.50	-21.06	Peak	100	133
6	286.85	31.75	-6.19	25.56	46.00	-20.44	Peak	100	124

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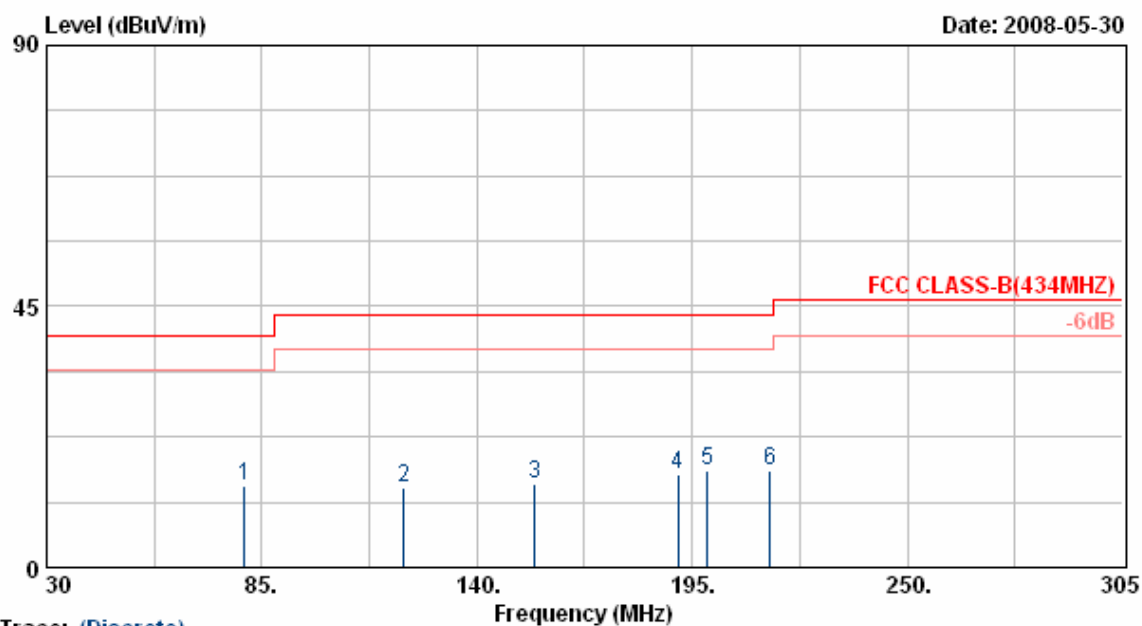
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Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	423.90	32.11	-3.81	28.30	46.00	-17.70	Peak	100	114
2	558.30	31.58	0.90	32.47	46.00	-13.53	Peak	100	132
3	691.30	31.56	-1.36	30.21	46.00	-15.79	Peak	100	124
4	729.80	31.95	3.24	35.19	46.00	-10.81	Peak	100	104
5	847.40	31.17	0.58	31.74	46.00	-14.26	Peak	100	124
6	913.90	32.17	0.66	32.83	46.00	-13.17	Peak	100	111

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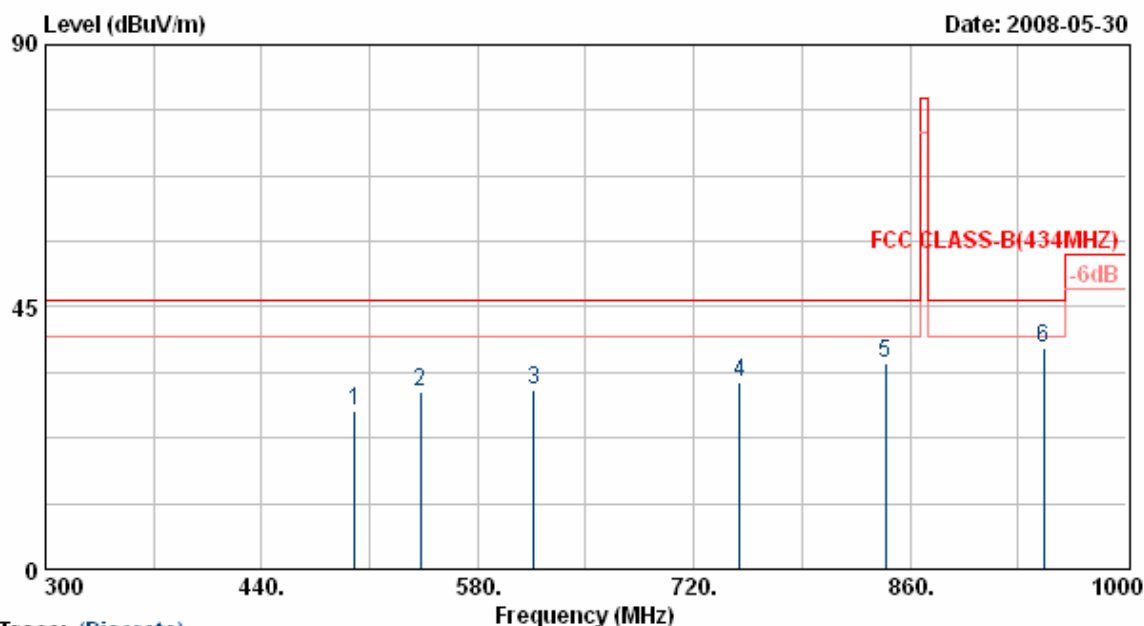
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Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	80.60	34.11	-20.13	13.97	40.00	-26.03	Peak	100	122
2	121.30	32.64	-18.84	13.80	43.50	-29.70	Peak	100	127
3	154.85	31.09	-16.53	14.56	43.50	-28.94	Peak	100	98
4	191.43	32.68	-16.49	16.19	43.50	-27.31	Peak	100	88
5	198.85	31.74	-14.91	16.82	43.50	-26.68	Peak	100	123
6	214.80	35.10	-18.46	16.65	43.50	-26.85	Peak	100	77

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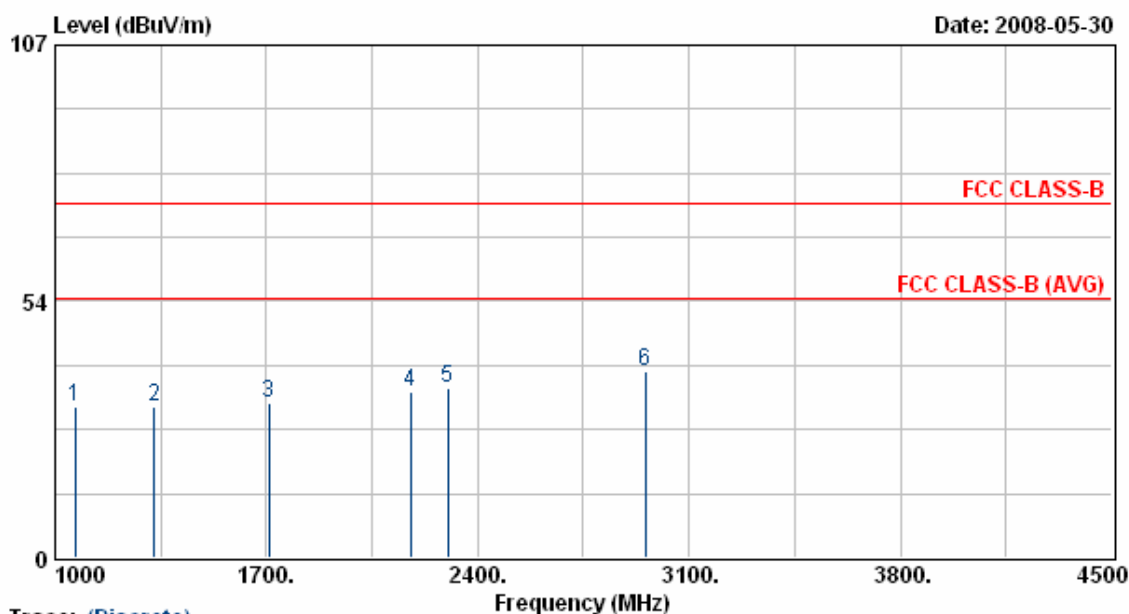


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	500.20	31.59	-4.27	27.32	46.00	-18.68	Peak	100	144
2	542.90	31.82	-1.33	30.49	46.00	-15.51	Peak	100	106
3	616.40	31.42	-0.62	30.80	46.00	-15.20	Peak	100	112
4	749.40	31.60	0.34	31.94	46.00	-14.06	Peak	100	106
5	843.90	31.43	3.87	35.31	46.00	-10.69	Peak	100	127
6	946.80	32.61	5.42	38.02	46.00	-7.98	Peak	100	113

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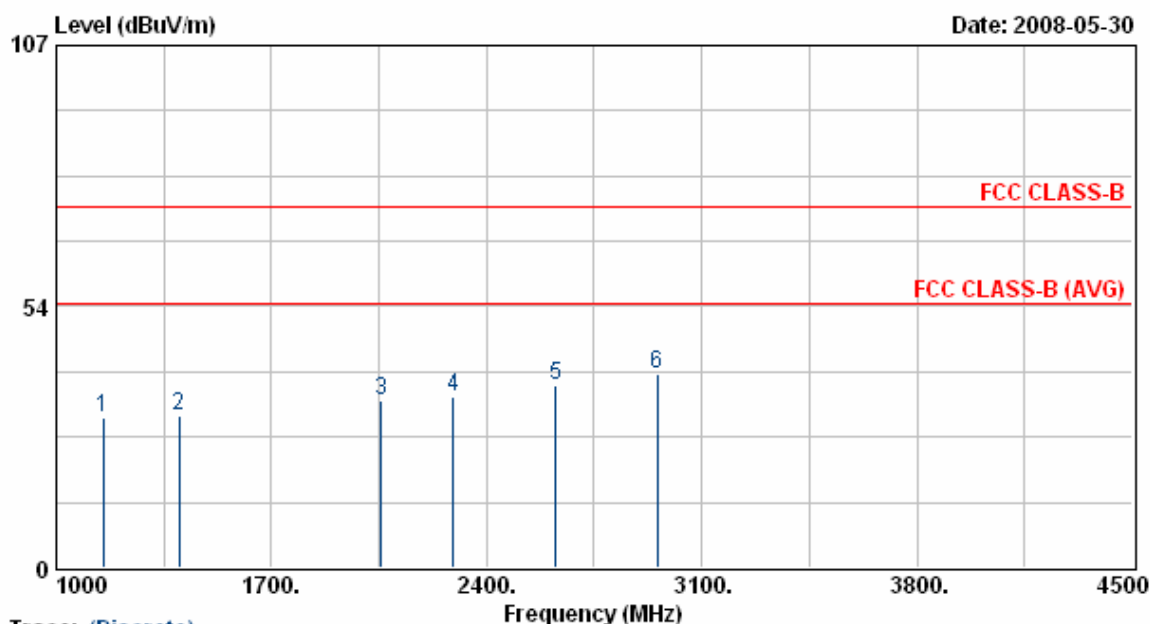
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Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	1066.50	41.26	-9.93	31.33	74.00	-42.67	Peak	100	0
2	1329.00	40.16	-8.46	31.70	74.00	-42.30	Peak	100	0
3	1707.00	38.79	-6.34	32.45	74.00	-41.55	Peak	100	0
4	2176.00	38.87	-4.07	34.81	74.00	-39.19	Peak	100	0
5	2302.00	38.83	-3.61	35.22	74.00	-38.78	Peak	100	0
6	2956.50	39.62	-0.80	38.82	74.00	-35.18	Peak	100	0

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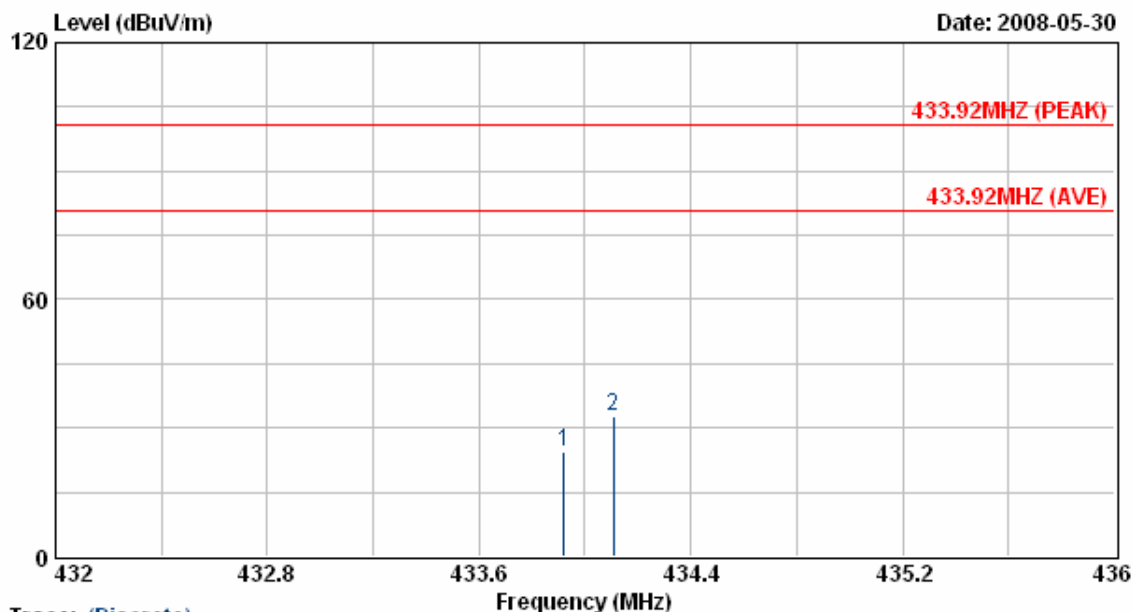
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Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	1154.00	40.12	-9.44	30.68	74.00	-43.32	Peak	100	360
2	1399.00	39.25	-8.07	31.18	74.00	-42.82	Peak	100	360
3	2057.00	38.83	-4.49	34.33	74.00	-39.67	Peak	100	360
4	2291.50	38.67	-3.65	35.02	74.00	-38.98	Peak	100	360
5	2624.00	39.85	-2.33	37.52	74.00	-36.48	Peak	100	360
6	2956.50	40.53	-0.80	39.73	74.00	-34.27	Peak	100	360

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Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
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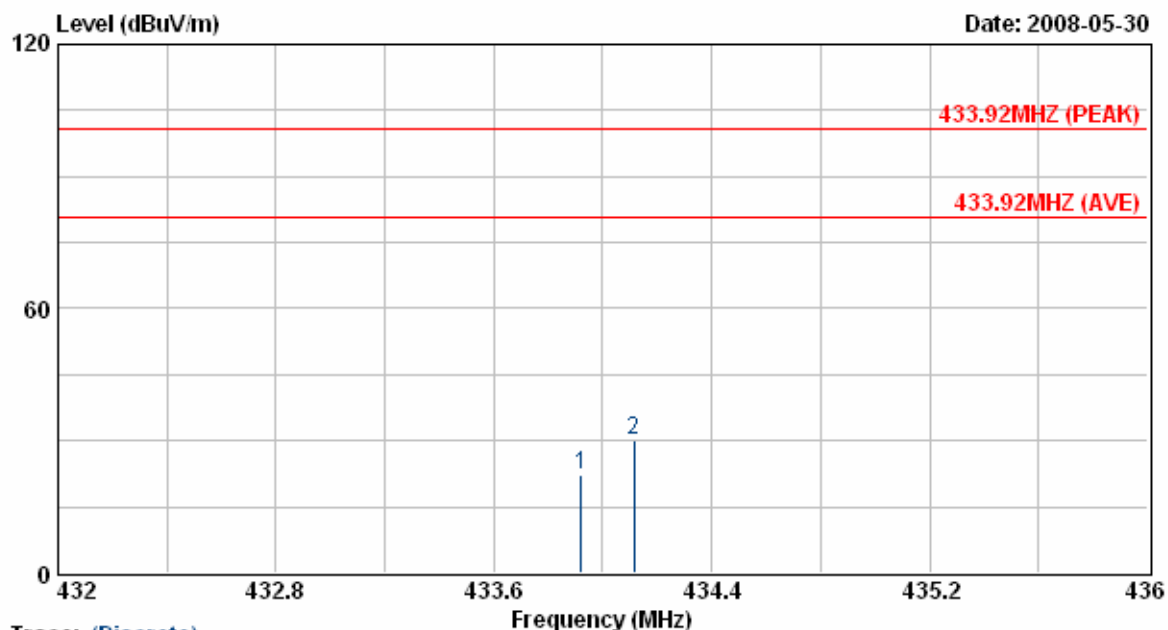
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Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	433.92	30.20	-5.54	24.65	80.80	-56.15	Average	100	101
2	434.11	38.10	-5.53	32.57	100.80	-68.23	Peak	100	101

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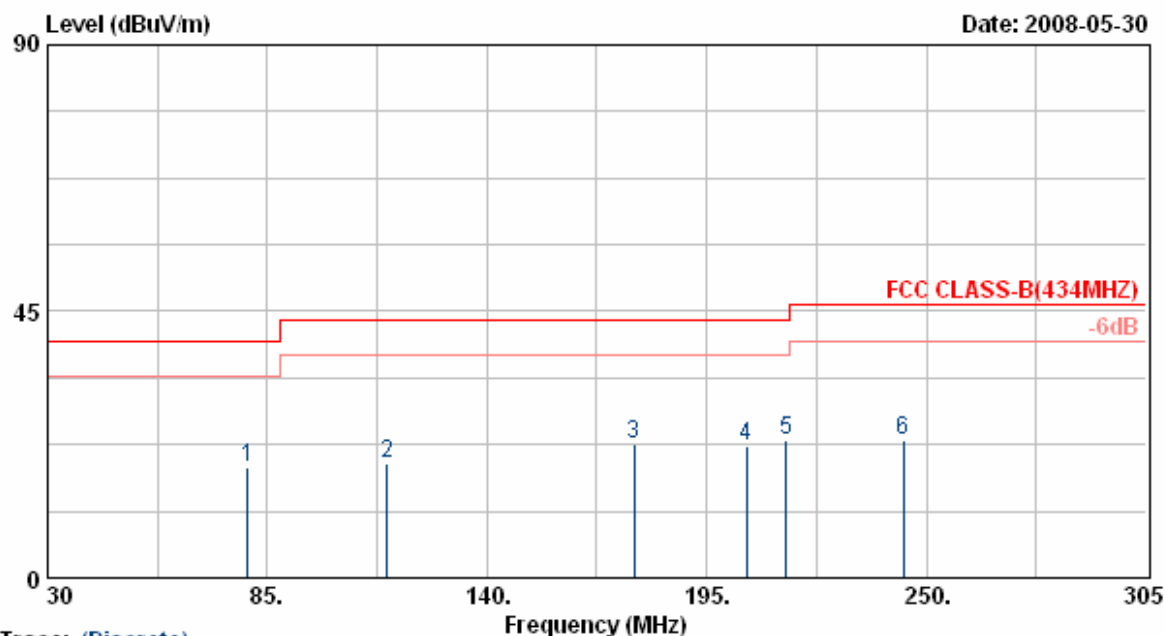
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	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	433.92	31.48	-9.35	22.13	80.80	-58.67	Average	100	171
2	434.12	39.41	-9.31	30.10	100.80	-70.70	Peak	100	171

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Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	: Bear		



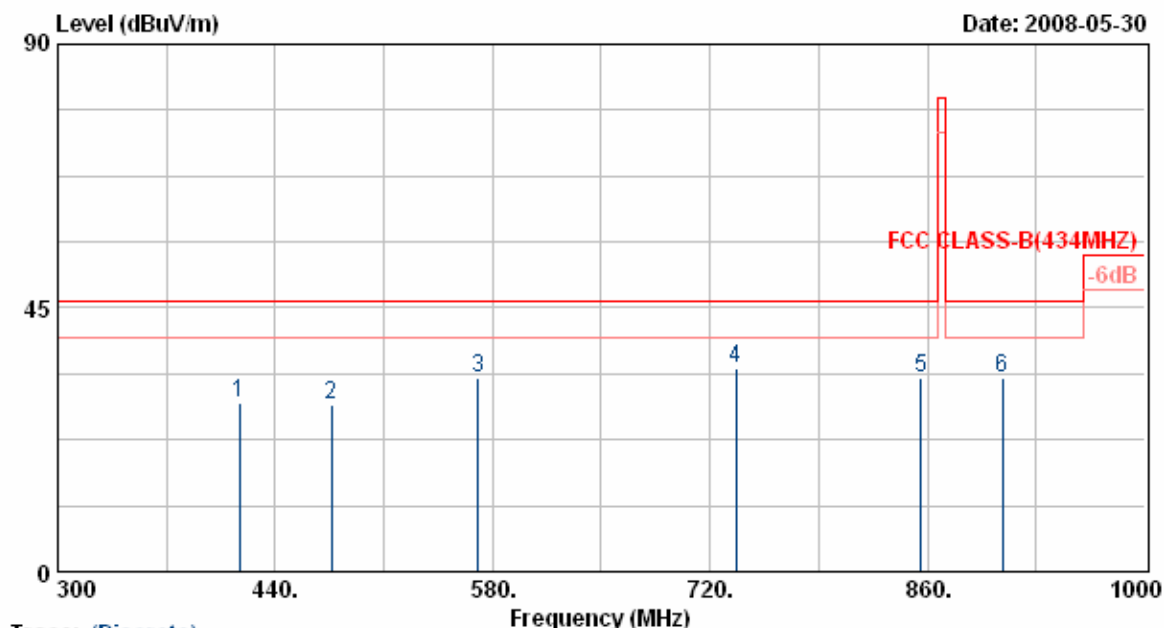
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	80.05	34.76	-16.19	18.57	40.00	-21.43	Peak	100	115
2	114.98	31.95	-12.69	19.26	43.50	-24.24	Peak	100	107
3	176.85	32.08	-9.59	22.50	43.50	-21.00	Peak	100	117
4	204.90	33.24	-10.94	22.31	43.50	-21.19	Peak	100	122
5	214.80	34.75	-11.64	23.11	43.50	-20.39	Peak	100	139
6	244.23	33.47	-10.32	23.16	46.00	-22.84	Peak	100	103

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	: DC 6V	Pol/Phase	: VERTICAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: Y	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	: Bear		



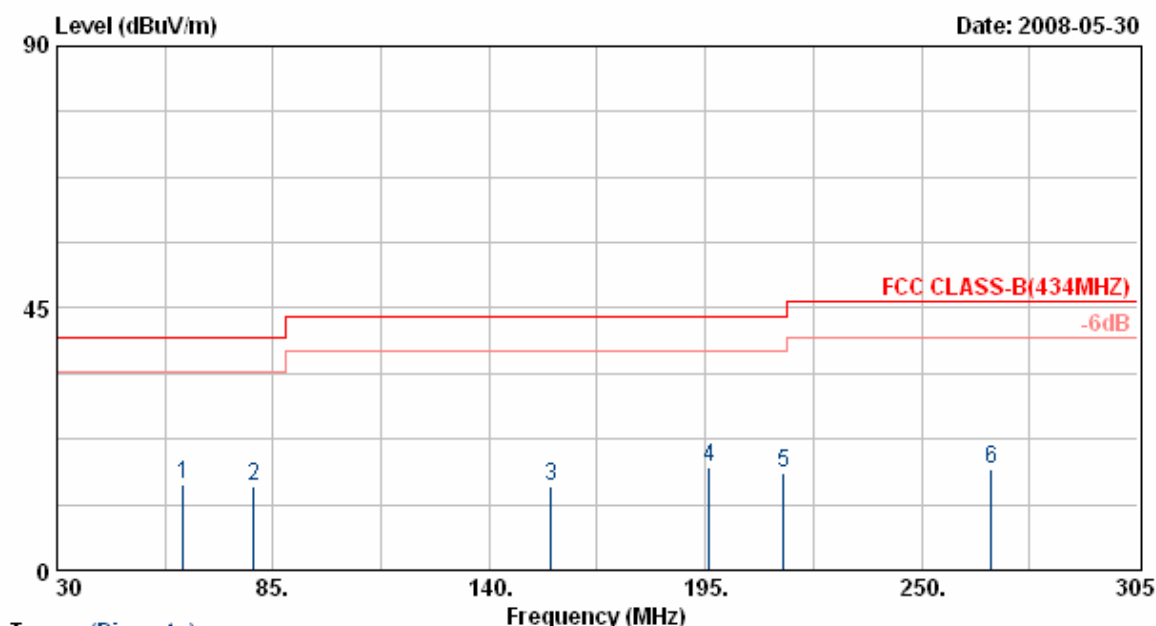
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	416.90	32.81	-4.17	28.65	46.00	-17.35	Peak	100	126
2	476.40	33.22	-4.76	28.47	46.00	-17.53	Peak	100	107
3	570.90	32.12	0.79	32.91	46.00	-13.09	Peak	100	114
4	736.80	31.75	2.84	34.59	46.00	-11.41	Peak	100	112
5	855.80	33.10	-0.16	32.95	46.00	-13.05	Peak	100	136
6	908.30	32.19	0.96	33.16	46.00	-12.84	Peak	100	122

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	: DC 6V	Pol/Phase	: HORIZONTAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: Y	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	Bear		



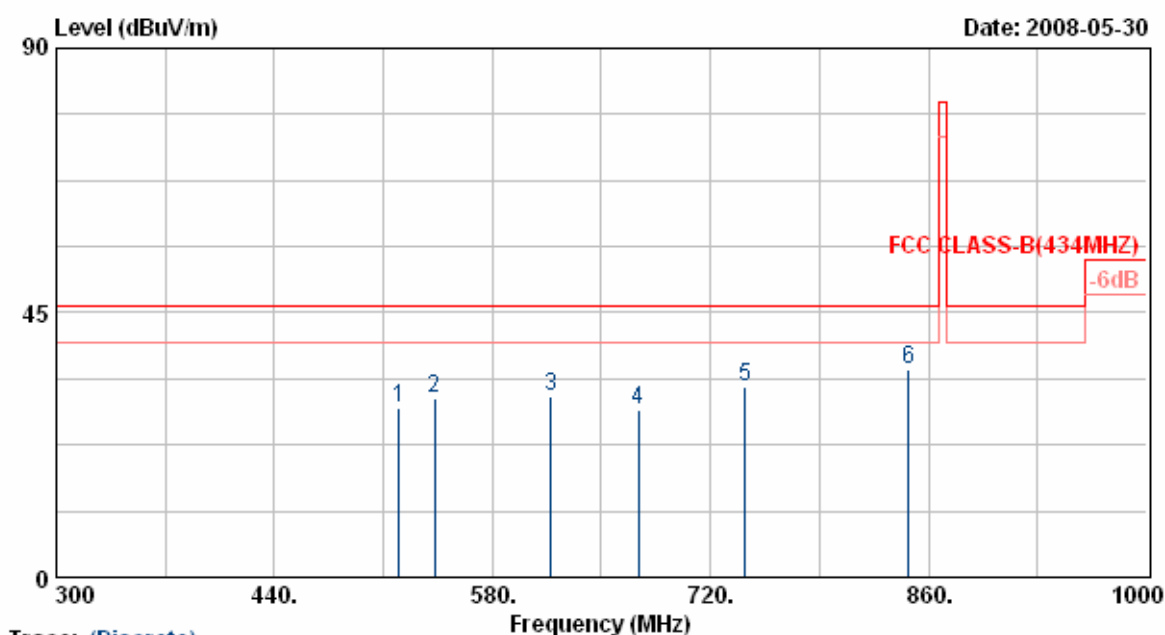
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	62.18	38.57	-23.78	14.78	40.00	-25.22	Peak	100	99
2	80.05	34.50	-20.20	14.30	40.00	-25.70	Peak	100	122
3	155.68	31.15	-16.68	14.47	43.50	-29.03	Peak	100	111
4	196.10	33.47	-15.93	17.55	43.50	-25.95	Peak	100	105
5	214.80	35.11	-18.46	16.66	43.50	-26.84	Peak	100	111
6	267.88	32.87	-15.43	17.44	46.00	-28.56	Peak	100	77

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	: DC 6V	Pol/Phase	: HORIZONTAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: Y	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	: Bear		



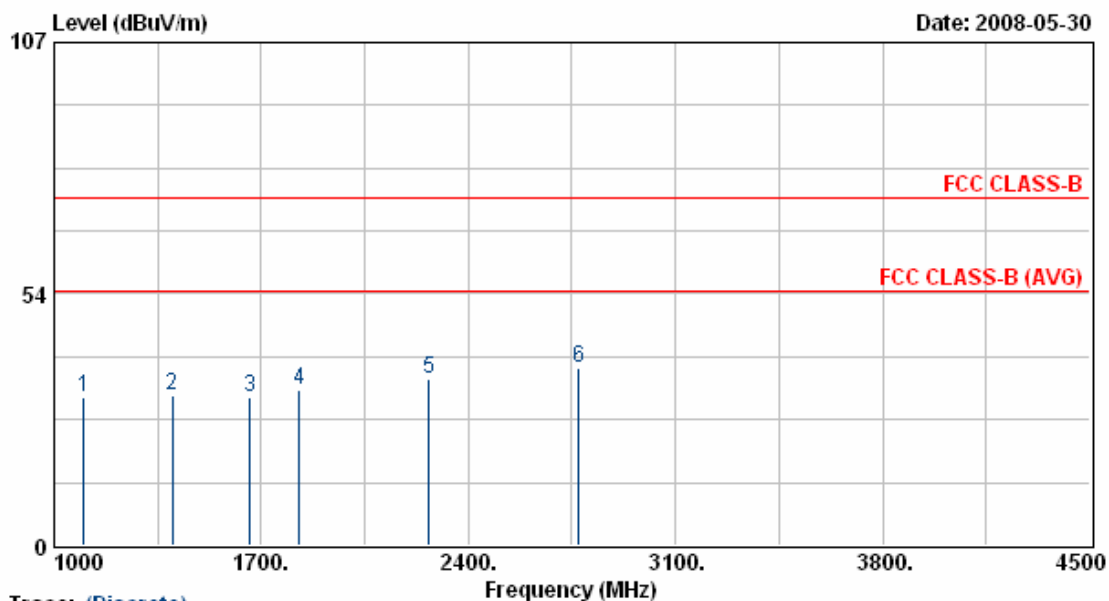
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	519.80	32.20	-3.32	28.88	46.00	-17.12	Peak	100	79
2	542.90	31.70	-1.33	30.37	46.00	-15.63	Peak	100	72
3	617.80	31.35	-0.74	30.61	46.00	-15.39	Peak	100	95
4	673.80	33.04	-4.45	28.59	46.00	-17.41	Peak	100	83
5	742.40	32.16	0.24	32.40	46.00	-13.60	Peak	100	144
6	847.40	31.49	3.99	35.48	46.00	-10.52	Peak	100	123

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	: DC 6V	Pol/Phase	: VERTICAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: Y	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	: Bear		



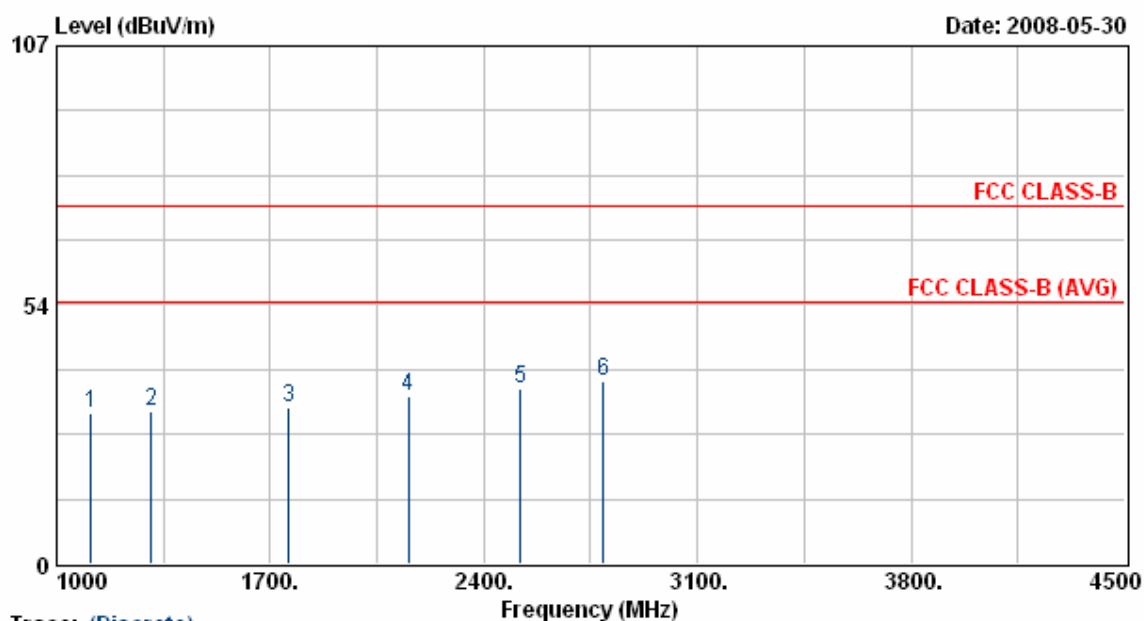
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	1101.50	41.36	-9.73	31.63	74.00	-42.37	Peak	100	0
2	1399.00	39.88	-8.07	31.81	74.00	-42.19	Peak	100	0
3	1661.50	38.00	-6.60	31.41	74.00	-42.59	Peak	100	0
4	1829.50	38.65	-5.65	33.00	74.00	-41.00	Peak	100	0
5	2267.00	39.20	-3.74	35.46	74.00	-38.54	Peak	100	0
6	2774.50	39.55	-1.64	37.91	74.00	-36.09	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	: DC 6V	Pol/Phase	: HORIZONTAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: Y	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	Bear		



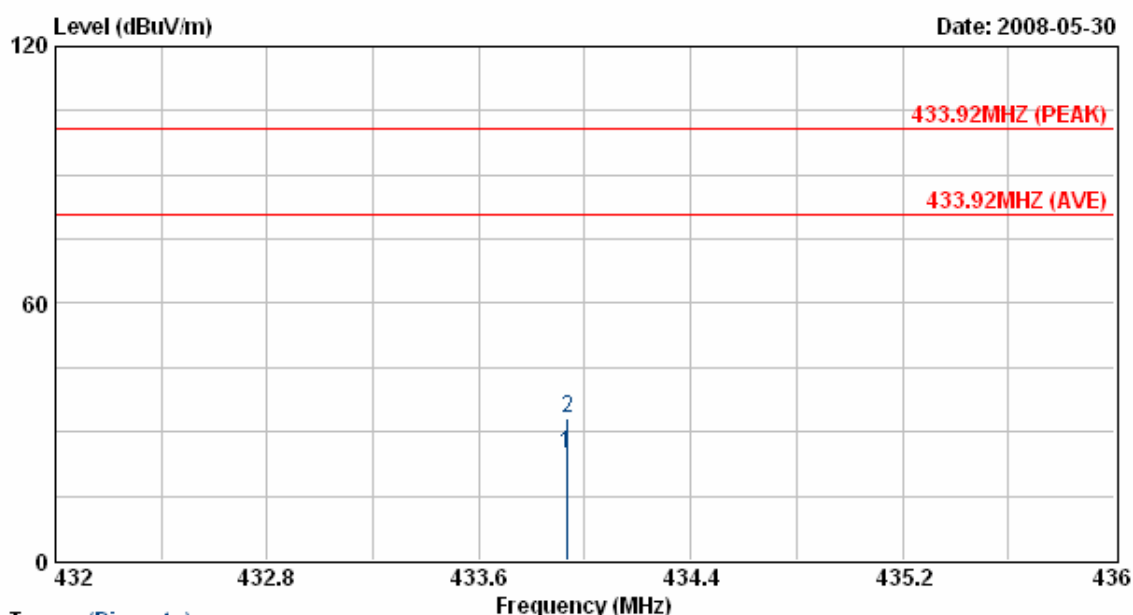
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	1112.00	40.96	-9.67	31.29	74.00	-42.71	Peak	100	360
2	1311.50	40.25	-8.56	31.70	74.00	-42.30	Peak	100	360
3	1759.50	38.21	-6.05	32.16	74.00	-41.84	Peak	100	360
4	2151.50	38.64	-4.15	34.48	74.00	-39.52	Peak	100	360
5	2519.00	38.90	-2.81	36.09	74.00	-37.91	Peak	100	360
6	2792.00	39.40	-1.56	37.84	74.00	-36.16	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	: DC 6V	Pol/Phase	: VERTICAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: Z	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	: Bear		

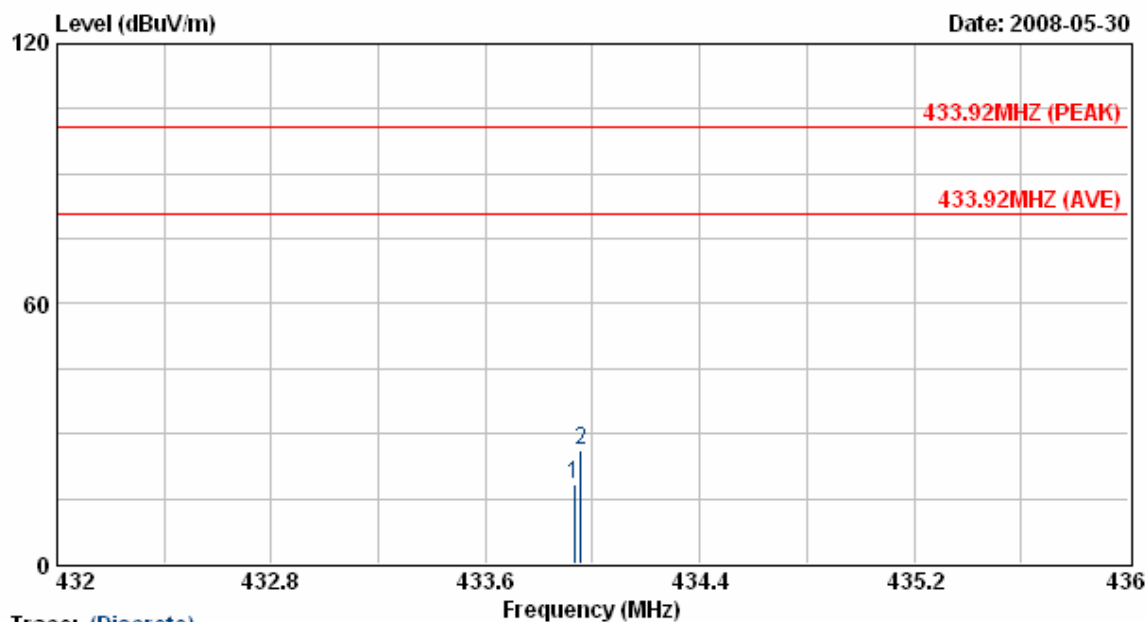


Trace: (Discrete)									
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	433.93	30.56	-5.54	25.01	80.80	-55.79	Average	100	154
2	433.94	38.76	-5.54	33.21	100.80	-67.59	Peak	100	154

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	: DC 6V	Pol/Phase	: HORIZONTAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: Z	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	: Bear		



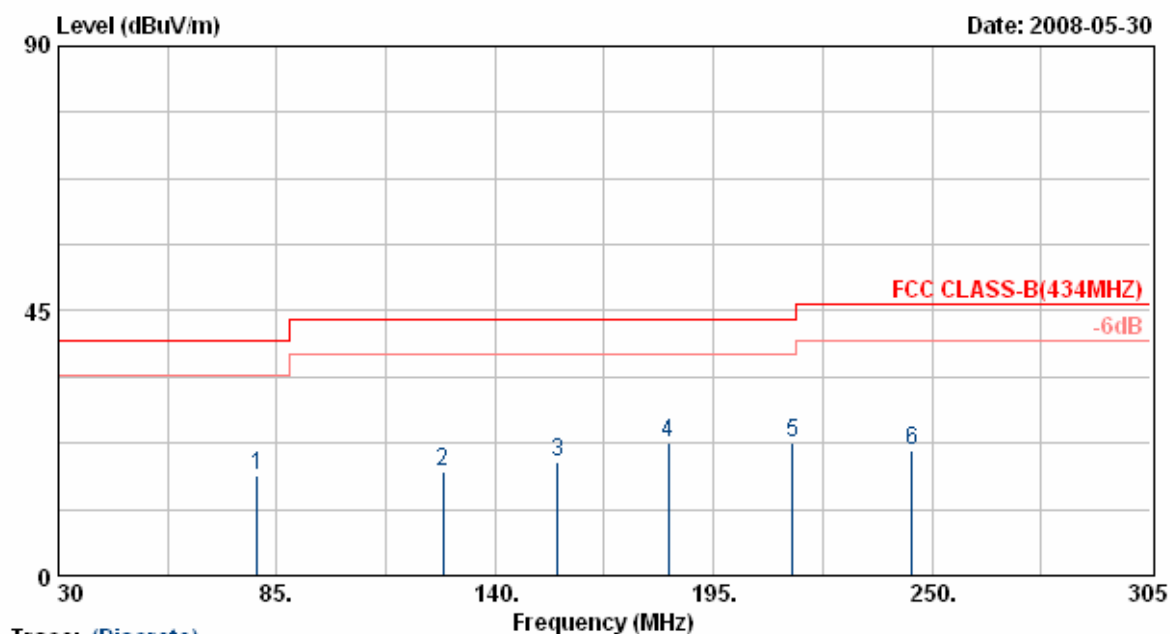
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Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	433.93	27.65	-9.34	18.30	80.80	-62.50	Average	100	139
2	433.96	35.60	-9.34	26.27	100.80	-74.53	Peak	100	139

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	: DC 6V	Pol/Phase	: VERTICAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: Z	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	: Bear		



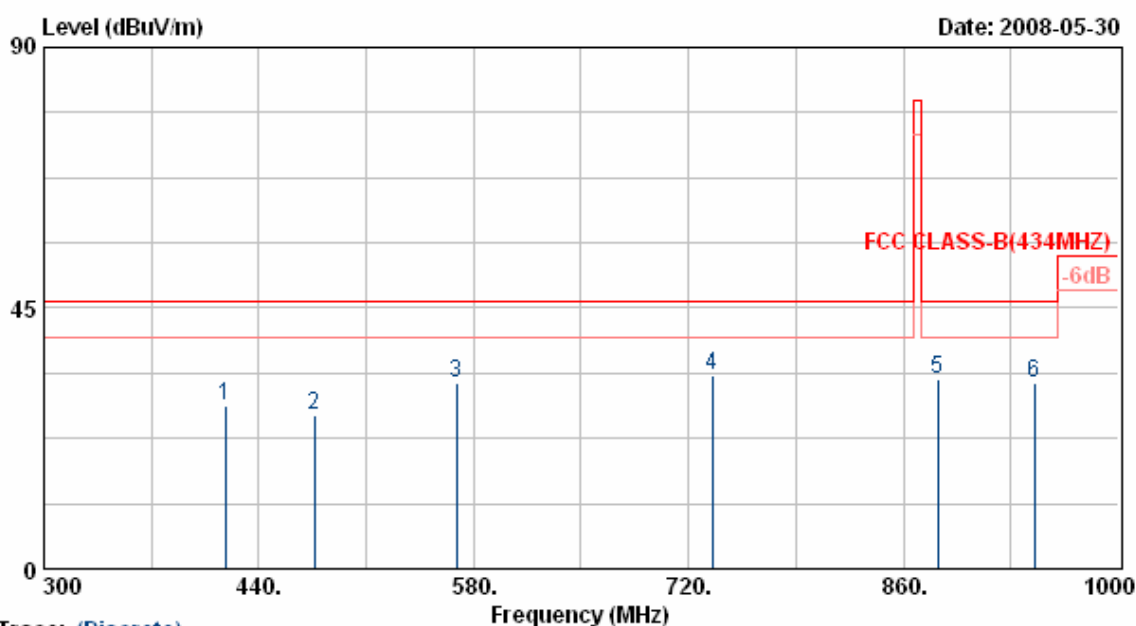
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	80.05	33.18	-16.19	17.00	40.00	-23.01	Peak	100	106
2	126.80	31.62	-13.95	17.67	43.50	-25.83	Peak	100	106
3	155.68	31.15	-11.72	19.42	43.50	-24.08	Peak	100	123
4	183.73	32.05	-9.47	22.58	43.50	-20.92	Peak	100	136
5	214.80	34.13	-11.64	22.49	43.50	-21.01	Peak	100	121
6	245.05	31.57	-10.18	21.39	46.00	-24.61	Peak	100	122

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	: DC 6V	Pol/Phase	: VERTICAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: Z	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	: Bear		



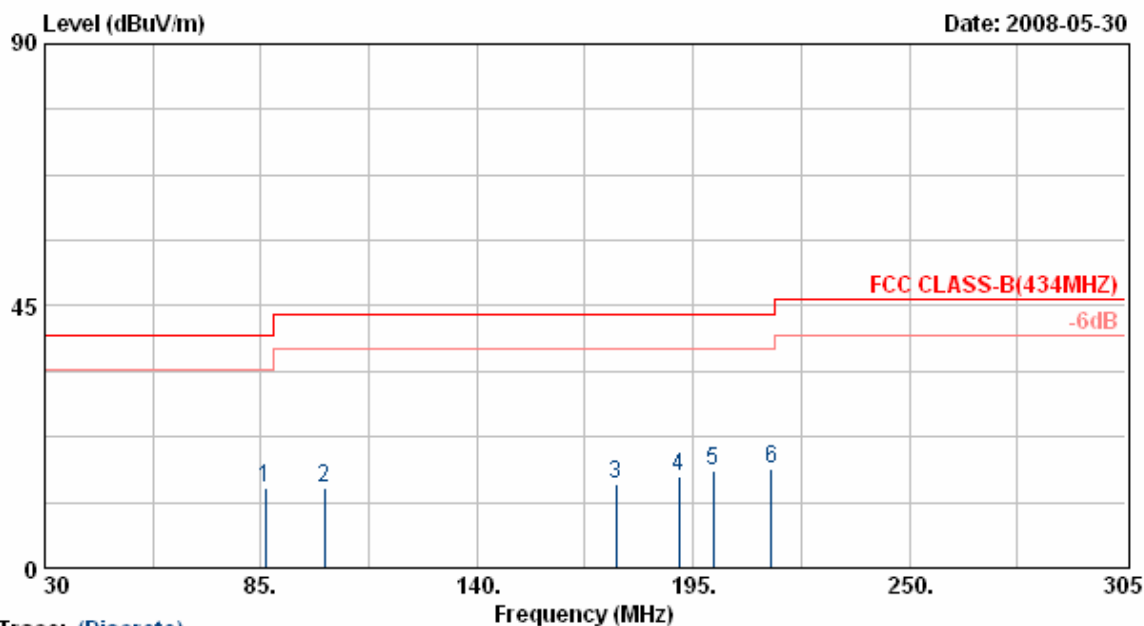
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	418.30	32.06	-3.94	28.11	46.00	-17.89	Peak	100	103
2	476.40	31.36	-4.76	26.60	46.00	-19.40	Peak	100	113
3	568.80	31.02	1.11	32.12	46.00	-13.88	Peak	100	106
4	735.40	30.54	2.71	33.25	46.00	-12.75	Peak	100	123
5	882.40	31.02	1.73	32.75	46.00	-13.25	Peak	100	98
6	945.40	30.92	1.23	32.15	46.00	-13.85	Peak	100	99

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	: DC 6V	Pol/Phase	: HORIZONTAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: Z	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	: Bear		



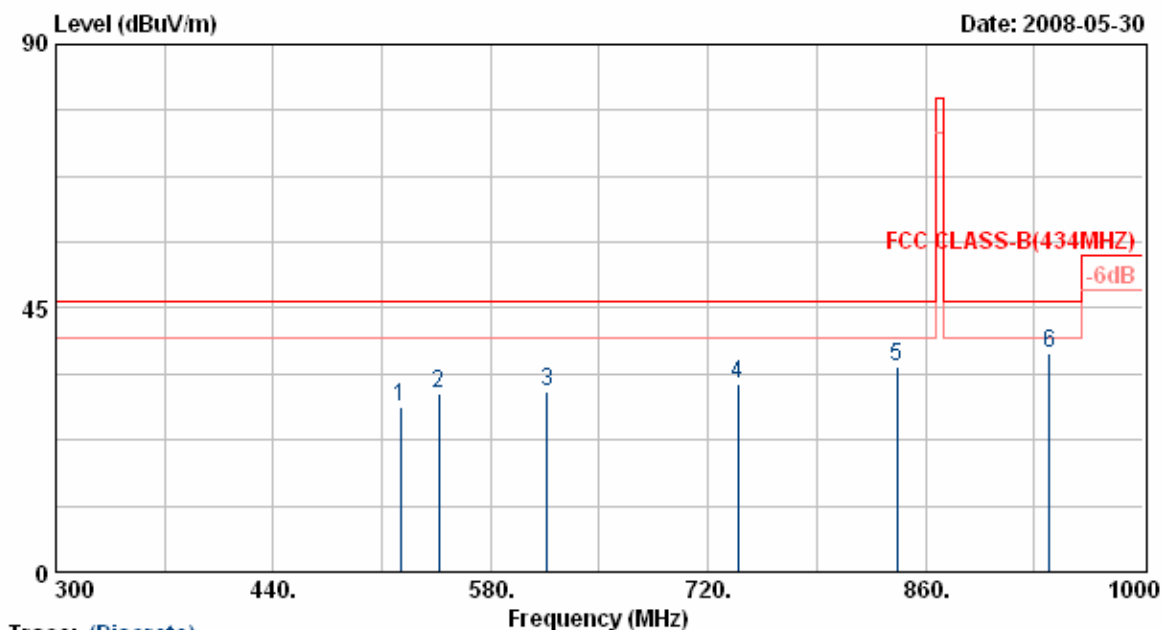
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	86.10	33.39	-19.64	13.76	40.00	-26.24	Peak	100	112
2	101.23	32.72	-18.99	13.73	43.50	-29.77	Peak	100	96
3	175.48	32.57	-18.11	14.46	43.50	-29.04	Peak	100	115
4	191.43	32.28	-16.49	15.79	43.50	-27.71	Peak	100	119
5	200.23	31.18	-14.58	16.60	43.50	-26.90	Peak	100	119
6	214.80	35.36	-18.46	16.90	43.50	-26.60	Peak	100	103

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	: DC 6V	Pol/Phase	: HORIZONTAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: Z	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	: Bear		



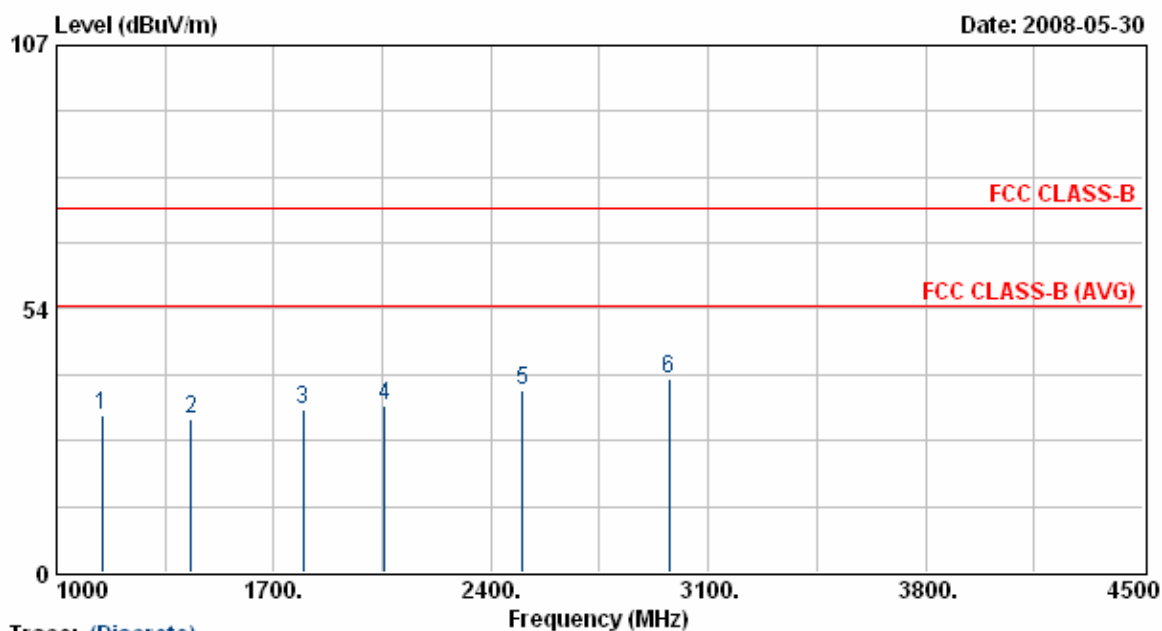
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	521.90	31.87	-3.85	28.02	46.00	-17.98	Peak	100	98
2	546.40	31.74	-1.18	30.56	46.00	-15.44	Peak	100	88
3	616.40	31.48	-0.62	30.86	46.00	-15.14	Peak	100	102
4	738.90	32.19	-0.15	32.04	46.00	-13.96	Peak	100	122
5	841.80	30.80	4.09	34.89	46.00	-11.11	Peak	100	154
6	939.80	31.63	5.53	37.16	46.00	-8.84	Peak	100	111

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	: DC 6V	Pol/Phase	: VERTICAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: Z	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	: Bear		



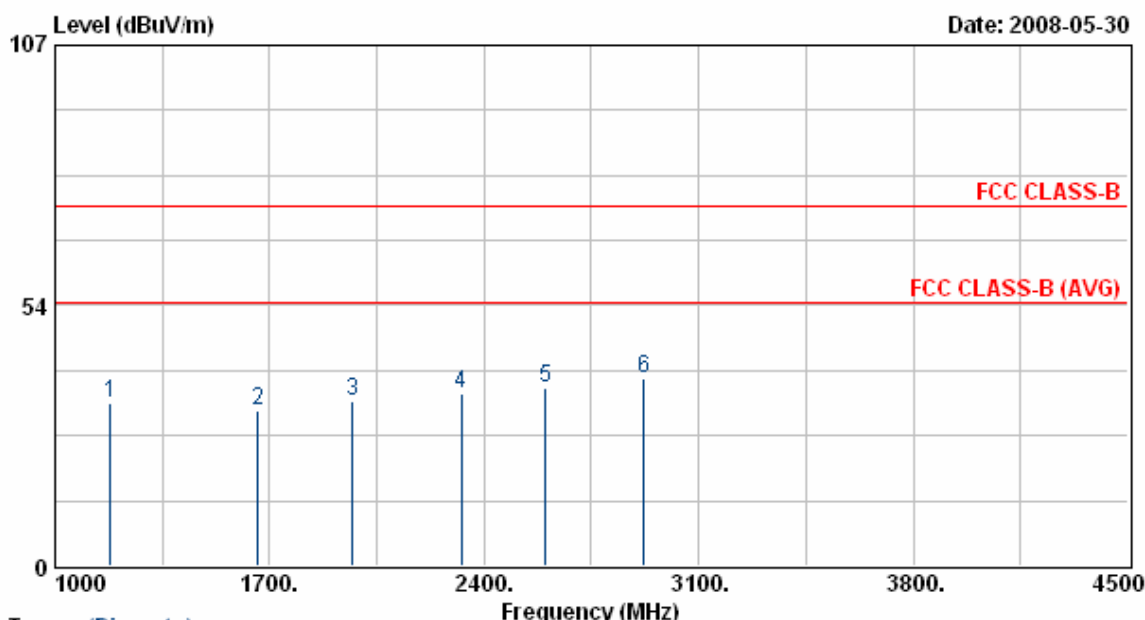
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	1147.00	41.27	-9.48	31.79	74.00	-42.21	Peak	100	0
2	1434.00	39.16	-7.87	31.30	74.00	-42.70	Peak	100	0
3	1794.50	38.91	-5.85	33.06	74.00	-40.94	Peak	100	0
4	2057.00	38.54	-4.49	34.04	74.00	-39.96	Peak	100	0
5	2501.50	39.73	-2.89	36.84	74.00	-37.16	Peak	100	0
6	2974.00	40.19	-0.72	39.47	74.00	-34.53	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	: DC 6V	Pol/Phase	: HORIZONTAL
Test Mode	: Transmit / Receive	Temperature	: 25 °C
Operation Axial	: Z	Humidity	: 65 %
Modulation Type	: FSK	Atmospheric Pressure	: 1020 hPa
Memo	: Bear		



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	1182.00	42.69	-9.28	33.41	74.00	-40.59	Peak	100	360
2	1661.50	38.61	-6.60	32.01	74.00	-41.99	Peak	100	360
3	1969.50	38.70	-4.87	33.83	74.00	-40.17	Peak	100	360
4	2326.50	38.84	-3.52	35.32	74.00	-38.68	Peak	100	360
5	2599.50	38.94	-2.44	36.49	74.00	-37.51	Peak	100	360
6	2921.50	39.67	-0.96	38.71	74.00	-35.29	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

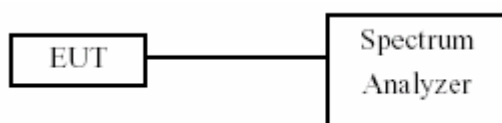
Test engineer: Ben

5. 20dB Occupied Bandwidth Measurement

5.1. Test Procedure

- The EUT placed on the turning table.
- The signal was coupled to the spectrum analyzer through an antenna.
- Set the resolution bandwidth to 100kHz and video bandwidth to 100kHz then select Peak function to scan the channel frequency.
- The 20dB bandwidth was measured and recorded.

5.2. Test Setup Layout



5.3. Limits of Band Edges Measurement

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for device operating above 70 MHz and below 900 MHz.

Frequency (MHz)	Limit of 20dB Bandwidth (KHz)
433.92	1084.8

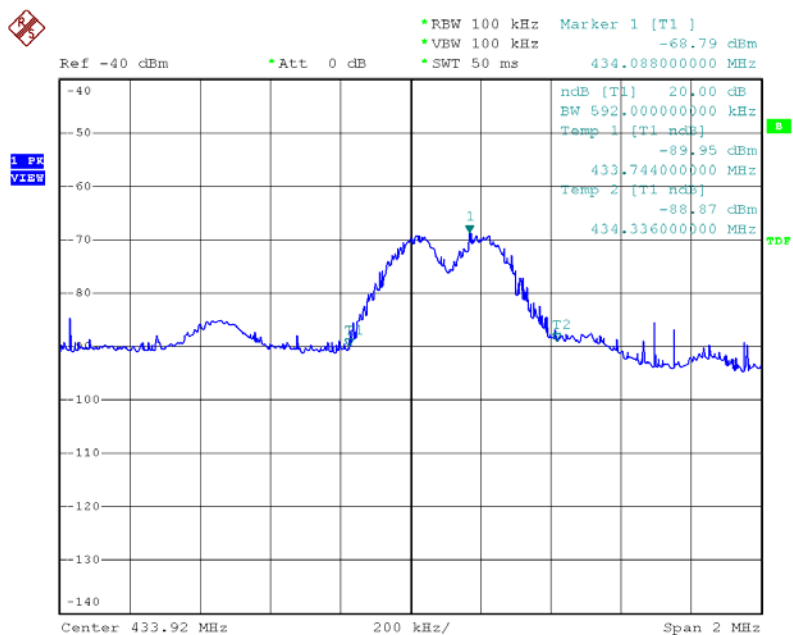
5.4. Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21

5.5. Test Result

Frequency (MHz)	20 dB bandwidth (KHz)	Maximum (KHz)	PASS / FAIL
433.92	592.00	1084.80	PASS

The plot of test result is attached as below:



Date: 3.JUN.2008 16:47:56