



CONFORMANCE TEST REPORT FOR FCC 47 CFR, Part 15 Subpart C

Report No.: ET94S-01-155-03

Client: 3-Elite Join Industrial Pte Ltd
Product: Industrial Radio Remote Control
Trade Name: Hercules
Model No.: A5-PROP
FCC ID: PCSHERCULES868305
Manufacturer/supplier: 3-Elite Join Industrial Pte Ltd

Date test item received: 2005/01/24
Date test campaign completed: 2005/03/17
Date of issue: 2005/03/18

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Internal photos 6 pages

Setup photos 2 pages

Test Engineer	Checked By	Approved By
 Lee-Ying Hsu	 Joe Hsieh	 Tsung-Ching Lin

ELECTRONICS TESTING CENTER, TAIWAN
NO.8, LANE 29, WEN-MING RD.,
LO-SHAN TSUN, KUI-SHAN HSIANG,
TAOYUAN HSIEN 333
TAIWAN, R.O.C.

TEL: (03) 3276170~4
INT: +886-3-3276170~4
FAX: (03) 3276188
INT: +886-3-3276188



TEST REPORT CERTIFICATION

Client : 3-Elite Join Industrial Pte Ltd (Representative Office)
Address : 5F-7 , No. 4, Lane 609, Sec 5 Chung Hsin Road, Sanchung City, Taipei Hsien, Taiwan
Manufacturer : 3-Elite Join Industrial Pte Ltd
Address : 5F-7 , No. 4, Lane 609, Sec 5 Chung Hsin Road, Sanchung City, Taipei Hsien, Taiwan
EUT : Industrial Radio Remote Control
Trade name : Hercules
Model No. : A5-PROP
Power Source : 9V DC
Regulations applied : FCC 47 CFR, Part 15 Subpart C (2004)

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- ③ Filing: FCC, Industry Canada, VCCI
- ④ MRA: Australia, Hong Kong, New Zealand, Singapore, USA, Japan, Korea, China, APLAC through CNLA
- ⑤ FCC Registration Number: 90588, 91094, 91095



NVLAP Lab Code 200133-0

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1. GENERAL INFORMATION

1.1 Product Description

- a) Type of EUT : Industrial Radio Remote Control
 b) Model No. : A5-PROP
 c) Trade Name : Hercules
 d) FCC ID : PCSHERCULES868305
 e) Working Frequency : 868.000 ~ 869.140 MHz
 f) Power Supply : 9V DC

1.2 Characteristics of Device:

The EUT is a industrial radio remote controller. In USA the band 868.000 ~ 869.140 MHz is available. In this band, 20 RF channels spaced 60 kHz apart are defined. FM modulation is used.

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	868.000 MHz	06	868.300 MHz	11	868.600 MHz	16	868.900 MHz
02	868.060 MHz	07	868.360 MHz	12	868.660 MHz	17	868.960 MHz
03	868.120 MHz	08	868.420 MHz	13	868.720 MHz	18	869.020 MHz
04	868.180 MHz	09	868.480 MHz	14	868.780 MHz	19	869.080 MHz
05	868.240 MHz	10	868.540 MHz	15	868.840 MHz	20	869.140 MHz

1.3 Test Methodology

Both Conducted and radiated testing were performed according to the procedures in chapter 13 of ANSI C63.4.

The equipment under test was operated continuously in its normal operating mode for the purpose of the measurements. In order to secure the continuous operation of the device under test, the circuit rewired by the manufacturer to affect its intended operation. The receiving antenna was varied from 1 to 4 meters and the wooden turntable was rotated through 360 degrees to obtain the highest reading on the field strength meter or on the display of the spectrum analyzer. And also, each emission was to be maximized by changing the orientation of the equipment under test.

1.4 Test Facility

The semi-anechoic chamber and conducted measurement facility used to collect the radiated and conducted data are located inside the Building at No.8, Lane 29, Wen-ming Road, Lo-shan Tsun, Kweishan Hsiang, Taoyuan, Taiwan, R.O.C.

This site has been accreditation as a FCC filing site.

2. DEFINITION AND LIMITS

2.1 Definition

Intentional radiator:

A device that intentionally generates and emits radio frequency energy by radiation or induction.

2.2 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42-16.423	399.9-410	4.5-5.25
0.495 - 0.505 **	16.69475 - 16.69525	608-614	5.35-5.46
2.1735 - 2.1905	16.80425 - 16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475 - 156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

Remark "***" : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

2.3 Limitation

(1) Conducted Emission Limits :

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the conducted limit is the following:

Frequency MHz	Quasi Peak dB μ V	Average dB μ V
0.15 - 0.5	66-56	56-46
0.5 - 5.0	56	46
5.0 - 30.0	60	50

(2) Radiated Emission Limits :

According to 15.231 ,Periodic operation in the band 40.66-40.70 MHz and above 70 MHz, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Frequency Band (MHz)	Field strength of Fundamental (uV/m)	Field strength of Spurious (uV/m)
40.66-40.70	2250	225
70-130	1250	125
130-174	*1,250 to 3,750	*125 to 375
174-260	3750	375
260-470	*3,750 to 12,500	*375 to 1250
Above 470	12500	1250

* Linear interpolations.

Field strength limits are at the distance of 3 meters, emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209,as following table:

Other Frequencies (MHz)	Field Strength of Fundamental	
	μ V/meter	dB μ V/meter
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

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 20 dB under any condition of modulation.

(3) Bandwidth of Emission Limit

Per FCC rule §15.231(c), the permitted emission bandwidth is no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

(4) Limit of transmission time

- a) A manually operated Remote Controller Transmitter shall employ a switch that will automatically deactivate the Remote Controller Transmitter within not more than 5 seconds of being released.
- b) A Remote Controller Transmitter activated automatically shall cease transmission within 5 seconds after activation.

2.4 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device :

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2.5 User Information

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. To comply with the FCC RF exposure compliance requirement, the device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

3. RADIATED EMISSION MEASUREMENT

3.1 Applicable Standard

For periodic operation intentional radiator, the radiated emission shall comply with § 15.231(b).

3.2 Measurement Procedure

A. Preliminary Measurement For Portable Devices.

For portable devices, the following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

B. Final Measurement

1. Setup the configuration per figure 1 and 2 for frequencies measured below and above 1 GHz respectively. Turn on EUT and make sure that it is in continuous operating function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a semi-anechoic chamber to determine the accurate frequencies of higher emissions and then each selected frequency is precisely measured. As the same purpose, for emission measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission measured below and above 1 GHz, set the spectrum analyzer on a 120 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading. A RF test receiver is also used to confirm emissions measured.

Figure 1 : Frequencies measured below 1 GHz configuration

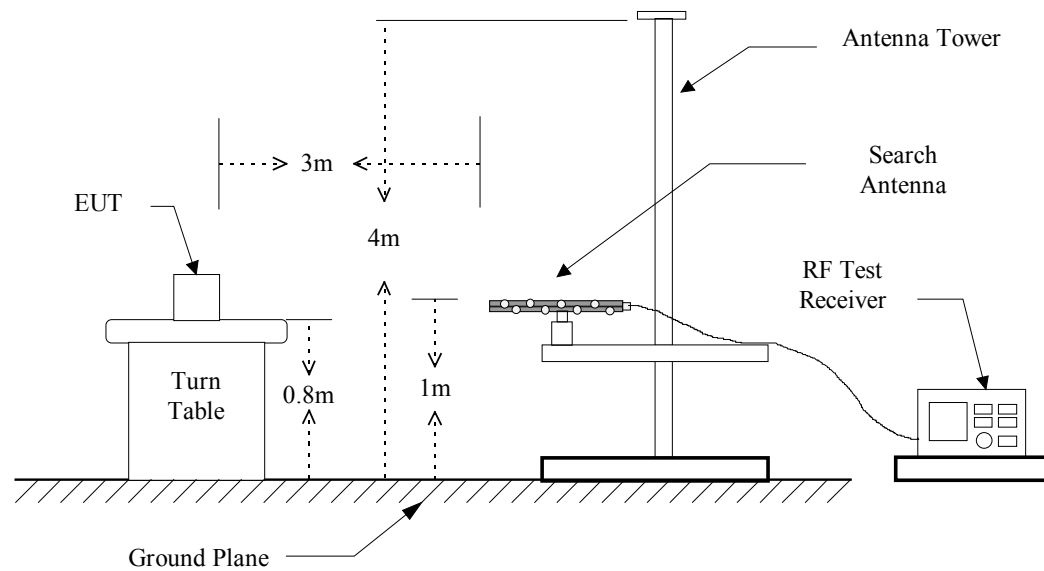
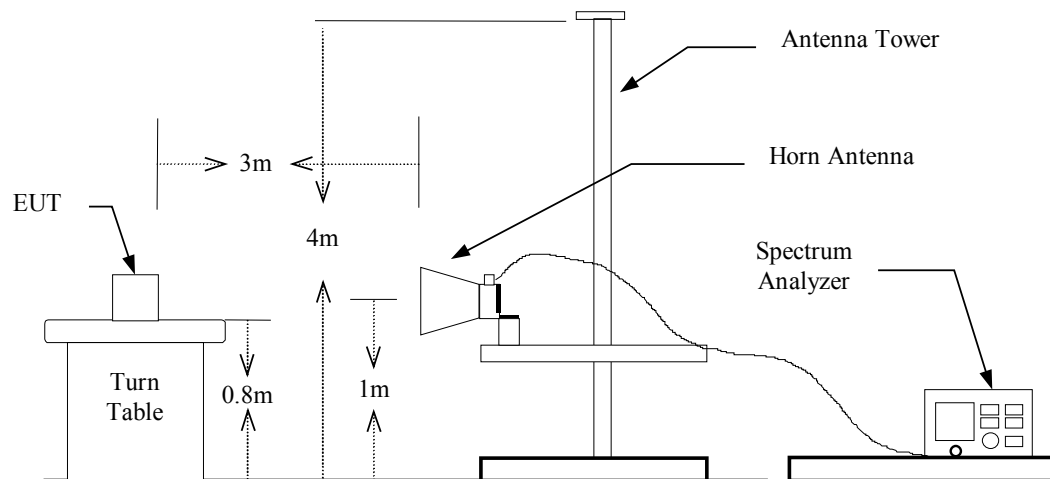


Figure 2 : Frequencies measured above 1 GHz configuration



3.3 Test Data

3.3.1 Fundamental and Harmonic (CH 01)

Operated mode : Transmitting (CH 01)Test Date : Mar. 17, 2005 Temperature : 20 °C Humidity : 64 %

Frequency (MHz)	Ant Pol H / V	Reading (dBuV) Peak	Correct Factor (dB)	Duty Factor (dB)	Result @3m (dBuV/m) Peak AVG		Limit @3m (dBuV/m) Peak AVG		Table Degree (Deg.)	Ant. High (m)
Fundamental										
867.971	H	54.7	28.4	-4.85	83.1	78.3	101.9	81.9	90	1.0
867.971	V	53.1	28.4	-4.85	81.5	76.7	101.9	81.9	90	1.0
Harmonic										
1735.942	H	62.6	-10.1	-4.85	52.5	47.7	81.9	61.9	90	1.0
1735.942	V	59.2	-10.1	-4.85	49.1	44.3	81.9	61.9	90	1.0
2603.913	H	50.2	-6.1	-4.85	44.1	39.3	81.9	61.9	90	1.0
2603.913	V	51.9	-6.1	-4.85	45.8	40.9	81.9	61.9	90	1.0
3471.884	H/V	----	----	-4.85	----	----	81.9	61.9	----	----
*8689.855	H/V	----	----	-4.85	----	----	74.0	54.0	----	----
5207.826	H/V	----	----	-4.85	----	----	81.9	61.9	----	----
6075.797	H/V	----	----	-4.85	----	----	81.9	61.9	----	----
6943.768	H/V	----	----	-4.85	----	----	81.9	61.9	----	----
7811.739	H/V	----	----	-4.85	----	----	81.9	61.9	----	----
8679.710	H/V	----	----	-4.85	----	----	81.9	61.9	----	----

Note:

1. Place of Measurement: Measuring site of the ETC.
2. Peak Result = Peak Reading + Correct Factor
3. AVG Result = Peak Result + Duty Factor
4. If the result of peak value is under the limit of average, the average value doesn't need to be measured.
5. "*" means the frequency is in the Restricted Bands.
6. Please refer to page 14 to page 19 for chart

3.3.2 Other Emission (CH 01)

Operated mode : Transmitting (CH 01)Test Date : Mar. 17, 2005 Temperature : 20 °C Humidity : 64 %

a) Emission frequencies below 1 GHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV) Q.P.	Corrected Factor (dB)	Result @3m (dBuV/m) Q.P.	Limit @3m (dBuV/m) Q.P.	Margin (dB)
119.240	H	8.9	13.5	22.4	43.5	-21.1
121.180	V	8.8	13.5	22.3	43.5	-21.2
164.830	V	9.4	14.9	24.3	43.5	-19.2
271.530	V	9.8	15.7	25.5	46.0	-20.5
276.380	H	8.7	15.7	24.4	46.0	-21.6
349.130	H	9.8	18.1	27.9	46.0	-18.1
383.080	V	10.1	18.8	28.9	46.0	-17.1
473.290	H	9.8	21.1	30.9	46.0	-15.1
502.390	V	9.6	21.5	31.1	46.0	-14.9
557.680	V	10.3	22.9	33.2	46.0	-12.8
615.880	H	8.8	24.5	33.3	46.0	-12.7
740.040	H	8.7	27.0	35.7	46.0	-10.3

b) Emission frequencies above 1 GHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)
Radiated emission frequencies above 1 GHz to 4.5 GHz were too low to be measured.						

Note : Please refer to page 14 to page 19 for chart

3.3.3 Fundamental and Harmonic (CH 20)

Operated mode : Transmitting (CH 20)Test Date : Mar. 17, 2005 Temperature : 20 °C Humidity : 64 %

Frequency (MHz)	Ant Pol H / V	Reading (dBuV) Peak	Correct Factor (dB)	Duty Factor (dB)	Result @3m (dBuV/m) Peak AVG		Limit @3m (dBuV/m) Peak AVG		Table Degree (Deg.)	Ant. High (m)
Fundamental										
869.180	H	51.1	28.4	-5.86	79.5	73.6	101.9	81.9	90	1.0
869.180	V	52.0	28.4	-5.86	80.4	74.5	101.9	81.9	90	1.0
Harmonic										
1738.360	H	63.8	-10.1	-5.86	53.7	47.8	81.9	61.9	90	1.0
1738.360	V	65.2	-10.1	-5.86	55.1	49.2	81.9	61.9	90	1.0
2604.570	H	53.4	-6.1	-5.86	47.3	41.4	81.9	61.9	90	1.0
2604.570	V	53.3	-6.1	-5.86	47.2	41.3	81.9	61.9	90	1.0
3472.760	H/V	----	----	-5.86	----	----	81.9	61.9	----	----
*4340.950	H/V	----	----	-5.86	----	----	74.0	54.0	----	----
5209.140	H/V	----	----	-5.86	----	----	81.9	61.9	----	----
6077.330	H/V	----	----	-5.86	----	----	81.9	61.9	----	----
6945.520	H/V	----	----	-5.86	----	----	81.9	61.9	----	----
7813.710	H/V	----	----	-5.86	----	----	81.9	61.9	----	----
8681.900	H/V	----	----	-5.86	----	----	81.9	61.9	----	----

Note:

1. Place of Measurement: Measuring site of the ETC.
2. Peak Result = Peak Reading + Correct Factor
3. AVG Result = Peak Result + Duty Factor
4. If the result of peak value is under the limit of average, the average value doesn't need to be measured.
5. "*" means the frequency is in the Restricted Bands.
6. Please refer to page 14 to page 19 for chart

3.3.4 Other Emission (CH 20)

Operated mode : Transmitting (CH 20)Test Date : Mar. 17, 2005 Temperature : 20 °C Humidity : 64 %

a) Emission frequencies below 1 GHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV) Q.P.	Corrected Factor (dB)	Result @3m (dBuV/m) Q.P.	Limit @3m (dBuV/m) Q.P.	Margin (dB)
114.390	H	9.2	12.5	21.7	43.5	-21.8
133.790	V	7.4	14.6	22.0	43.5	-21.5
168.680	V	7.8	15.4	23.2	43.5	-20.3
271.530	H	10.2	15.7	25.9	46.0	-20.1
326.820	V	8.5	17.5	26.0	46.0	-20.0
397.630	H	9.8	19.4	29.2	46.0	-16.8
412.180	V	9.5	19.4	28.9	46.0	-17.1
516.940	H	9.0	22.3	31.3	46.0	-14.7
541.190	V	9.8	22.9	32.7	46.0	-13.3
625.580	H	9.1	24.5	33.6	46.0	-12.4
708.030	H	9.3	26.1	35.4	46.0	-10.6
725.490	V	8.8	26.6	35.4	46.0	-10.6

b) Emission frequencies above 1 GHz

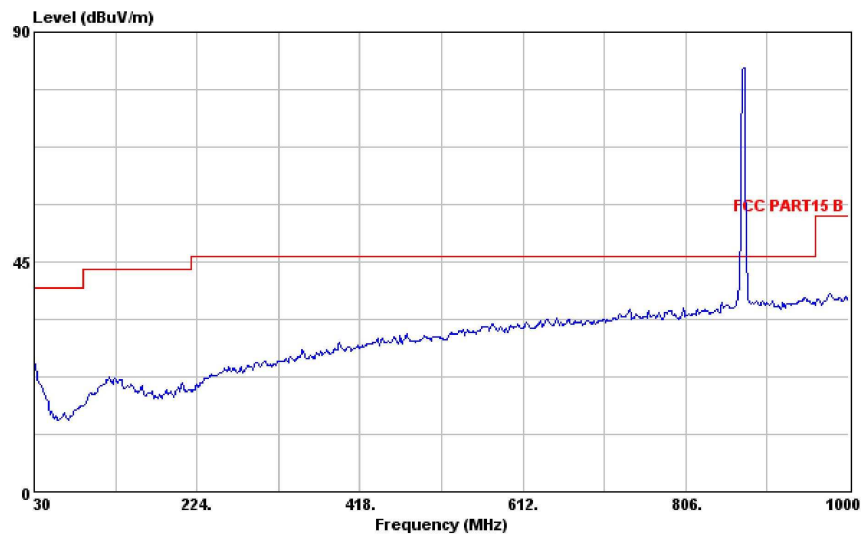
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)
Radiated emission frequencies above 1 GHz to 4.5 GHz were too low to be measured.						

Note : Please refer to page 14 to page 19 for chart



ETC TEST LABORTARY

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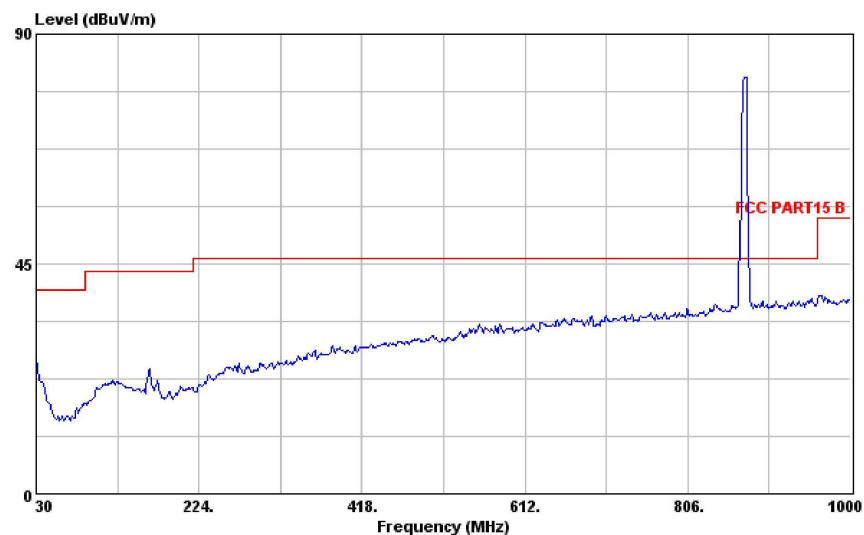


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Condition : FCC PART15 B 3m HORIZONTAL
EUT : REMOTE CONTROLLER
Model : A5-PROP
Memo : CH01



ETC TEST LABORTARY

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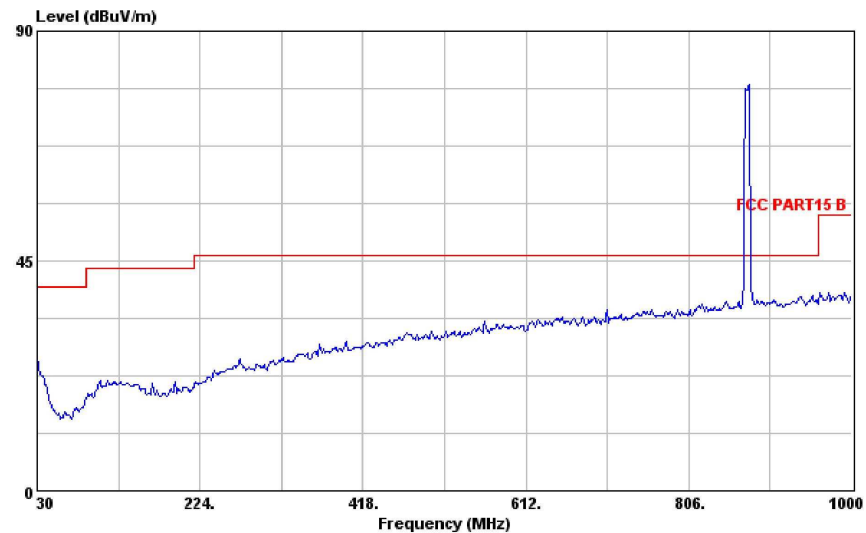


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Condition : FCC PART15 B 3m VERTICAL
EUT : REMOTE CONTROLLER
Model : A5-PROP
Memo : CH01



ETC TEST LABORTARY

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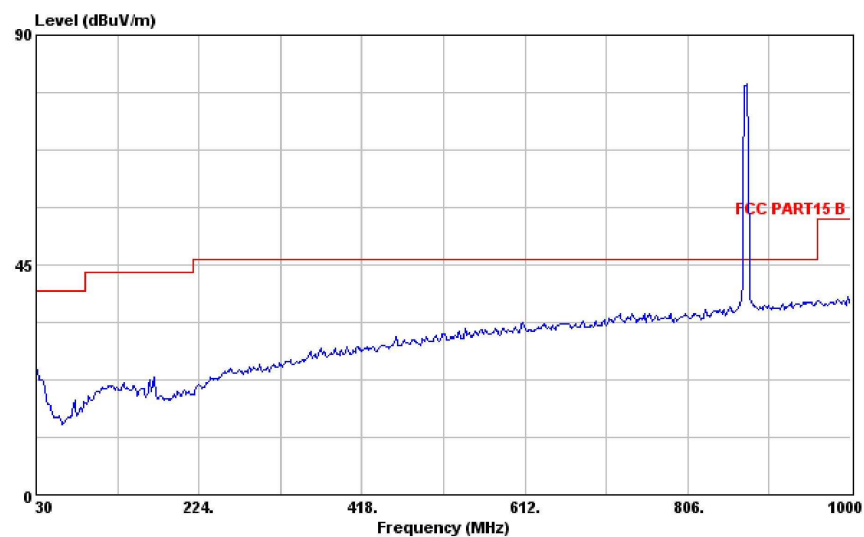


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EUT : REMOTE CONTROLLER
Model : A5-PROP
Memo : CH20

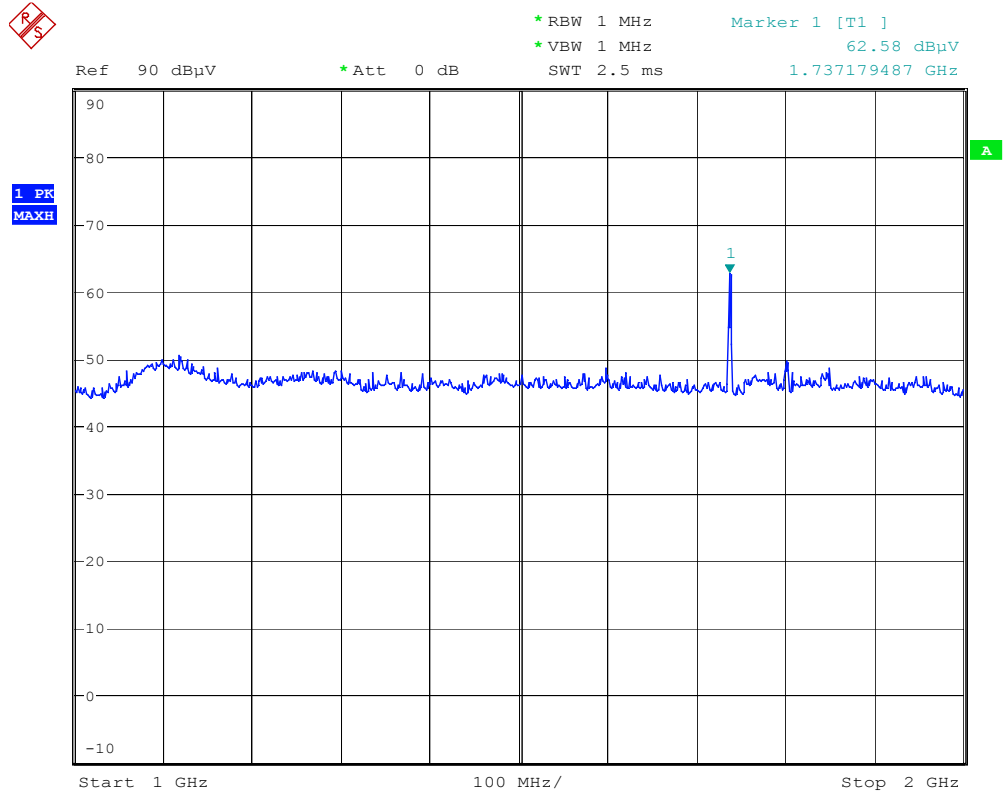


ETC TEST LABORTARY

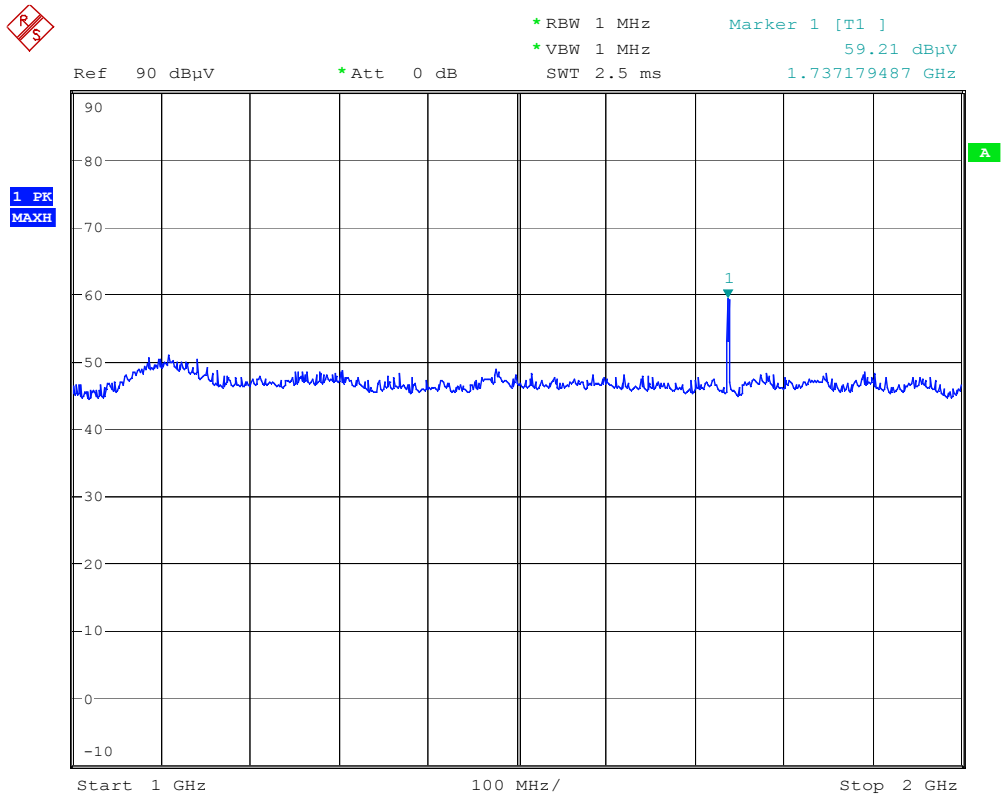
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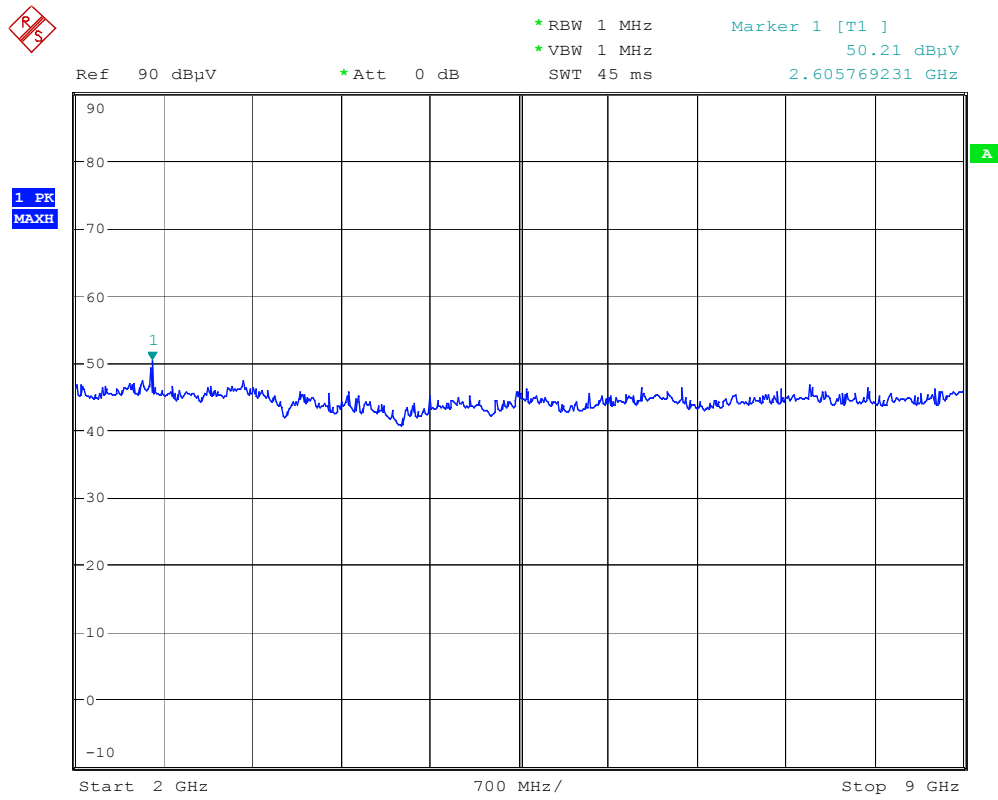
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Condition : FCC PART15 B 3m VERTICAL
EUT : REMOTE CONTROLLER
Model : A5-PROP
Memo : CH20



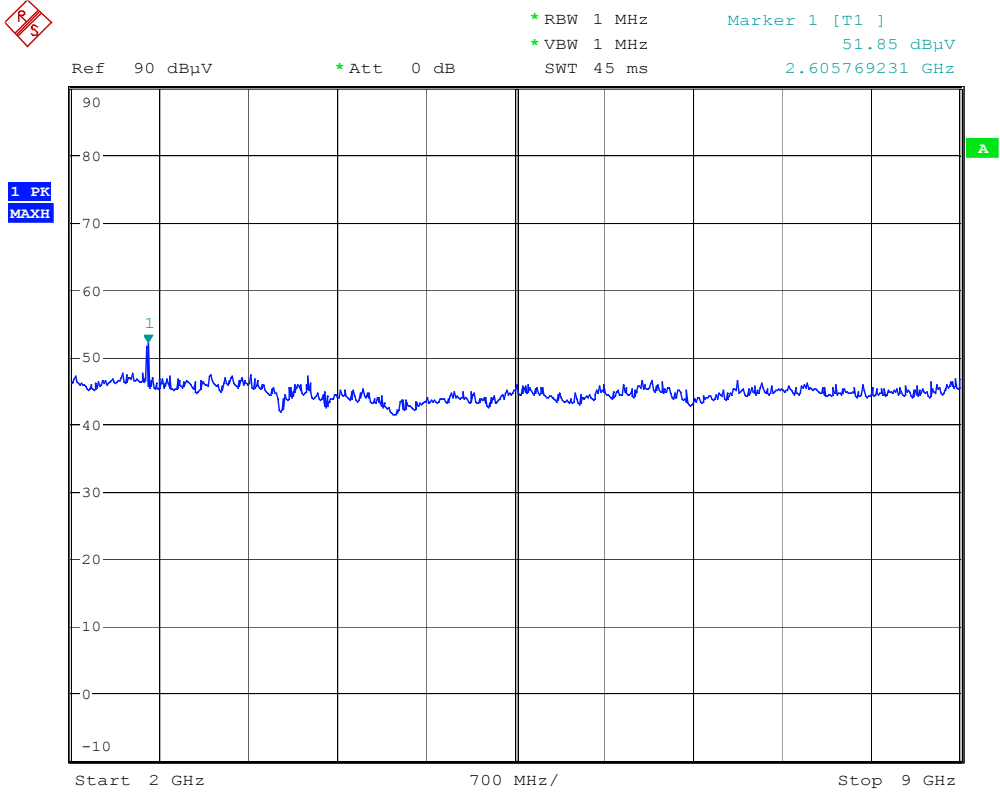
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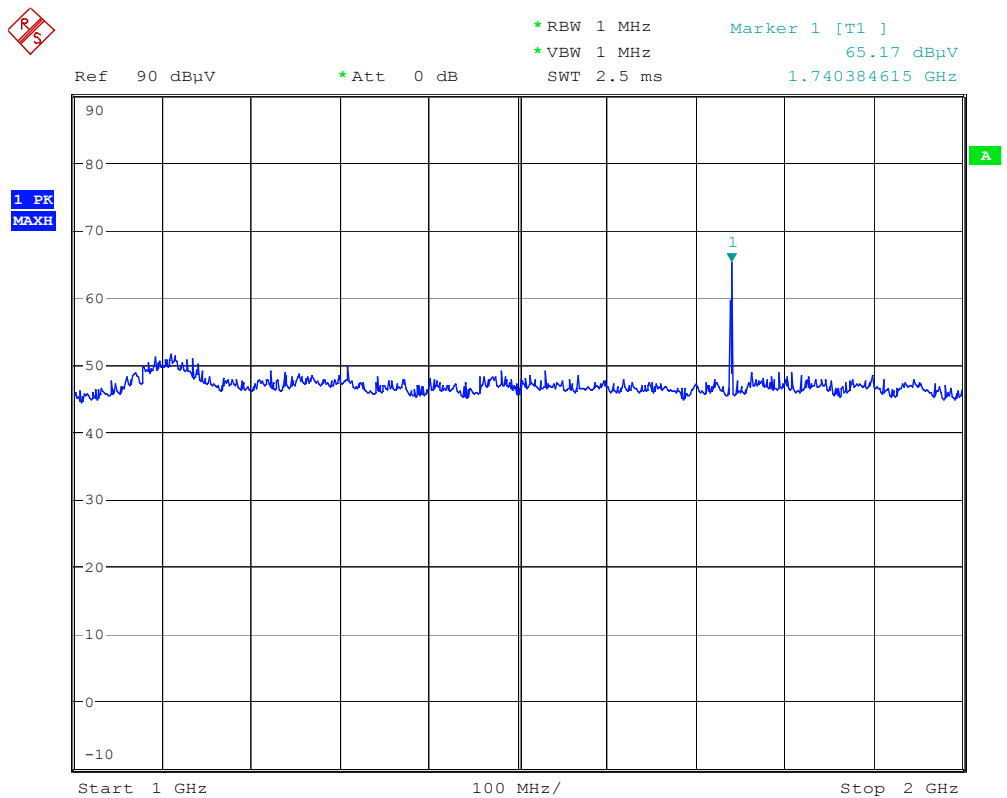
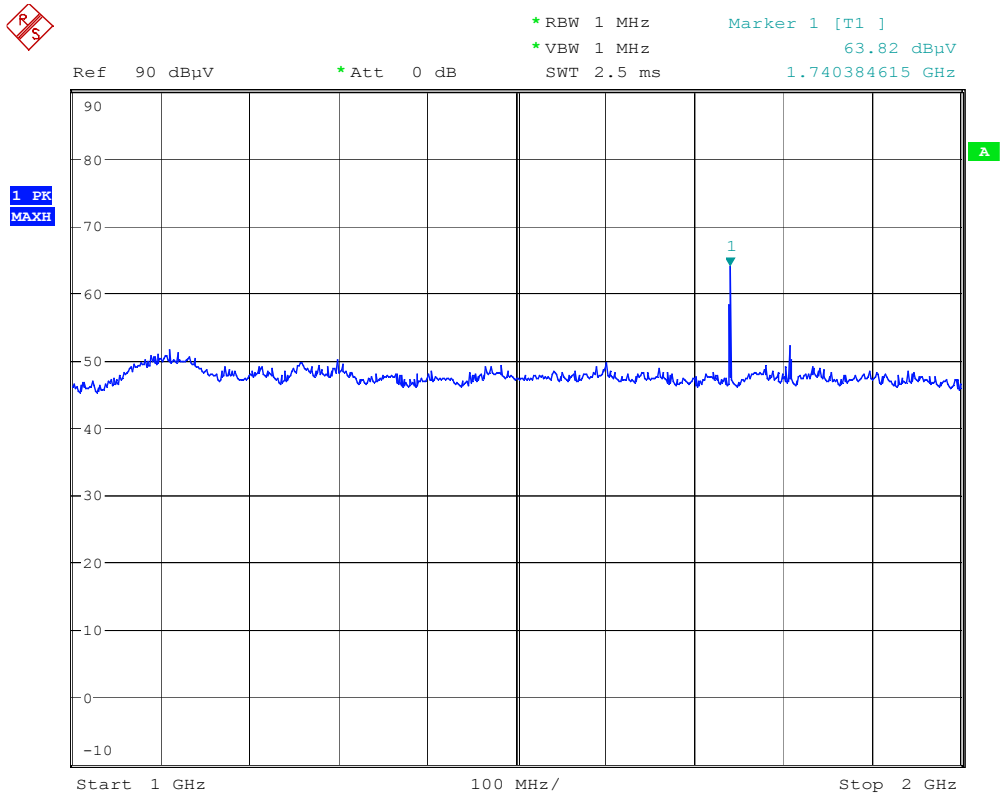
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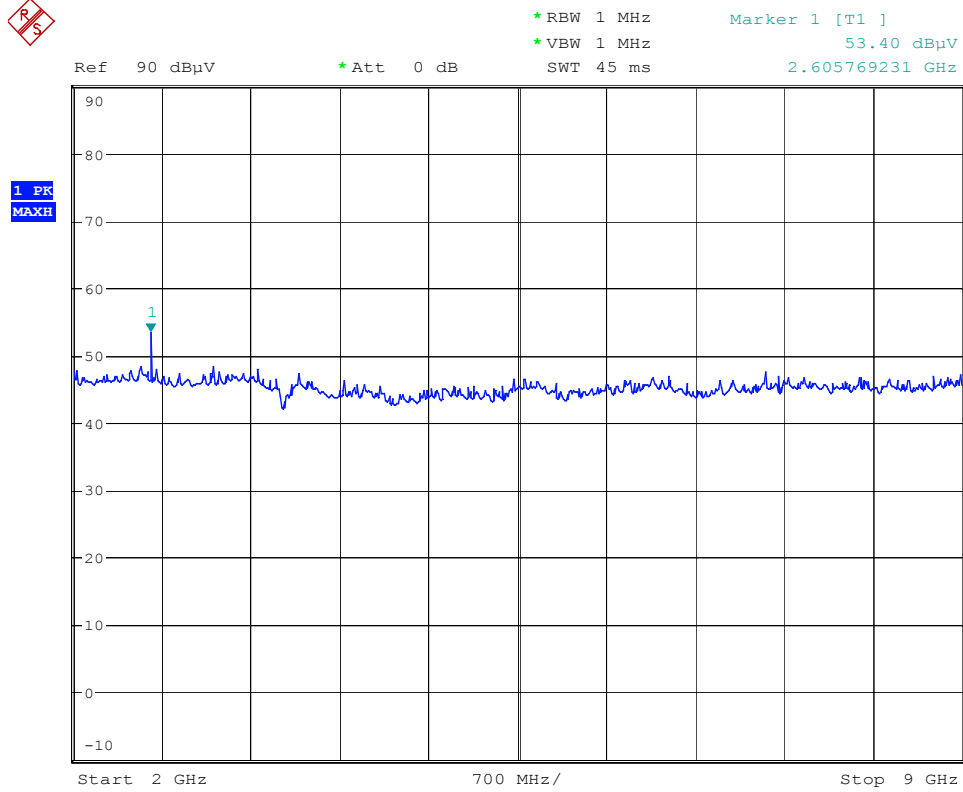
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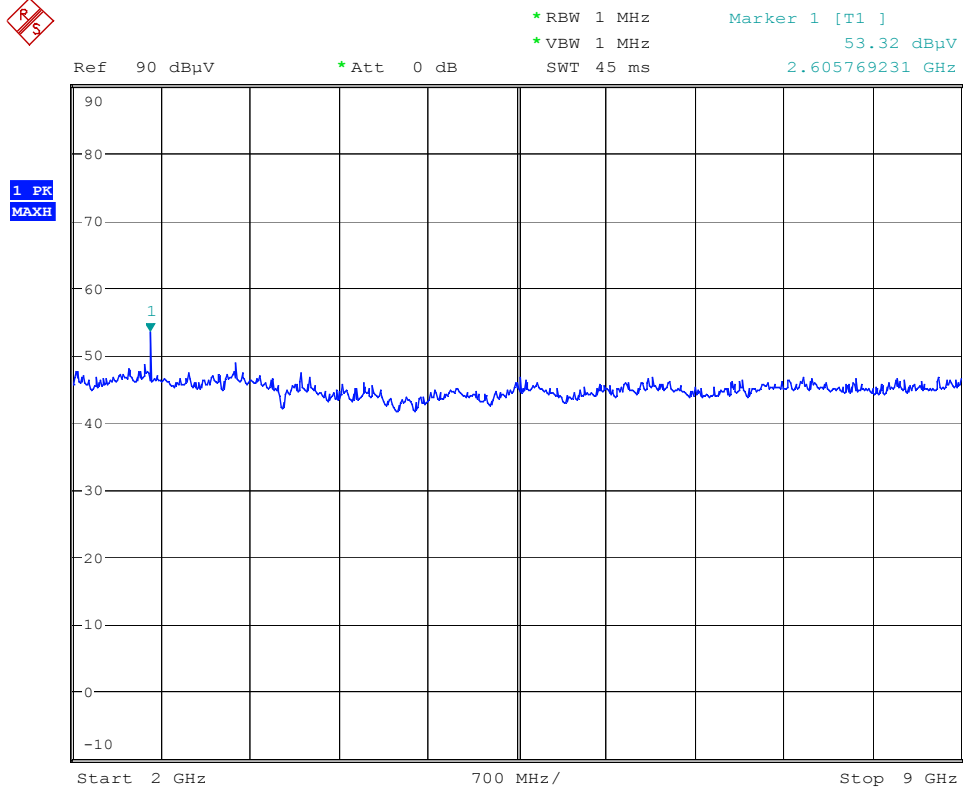
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Date: 17.MAR.2005 13:23:39



Date: 17.MAR.2005 13:25:12

3.4 Field Strength Calculation

(a) Field Strength:

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\text{RESULT} = \text{READING} + \text{CORR. FACTOR}$$

where CORR. FACTOR = Antenna FACTOR + Cable FACTOR

Assume a receiver reading of 62.4 dB μ V is obtained. The Antenna Factor of 14.1 and a Cable Factor of 3.4 is added. The total of field strength is 79.9 dB μ V/m.

$$\text{RESULT} = 62.4 + 14.1 + 3.4 = 79.9 \text{ dB } \mu \text{ V/m}$$

$$\text{Level in } \mu \text{ V/m} = \text{Common Antilogarithm}[(79.9 \text{ dB } \mu \text{ V/m})/20] = 9885.5 \text{ } \mu \text{ V/m}$$

(b) Duty Factor:

CH 1

$$20\log \frac{52(ms) \times 2 \times 0.55}{100(ms)} = -4.85 \text{ dB}$$

The plotted graph of Duty Factor please see page 21 ~ 23.

CH 20

$$20\log \frac{52(ms) \times 2 \times 0.49}{100(ms)} = -5.86 \text{ dB}$$

The plotted graph of Duty Factor please see page 24 ~ 26.

3.5 Radiated Test Equipment

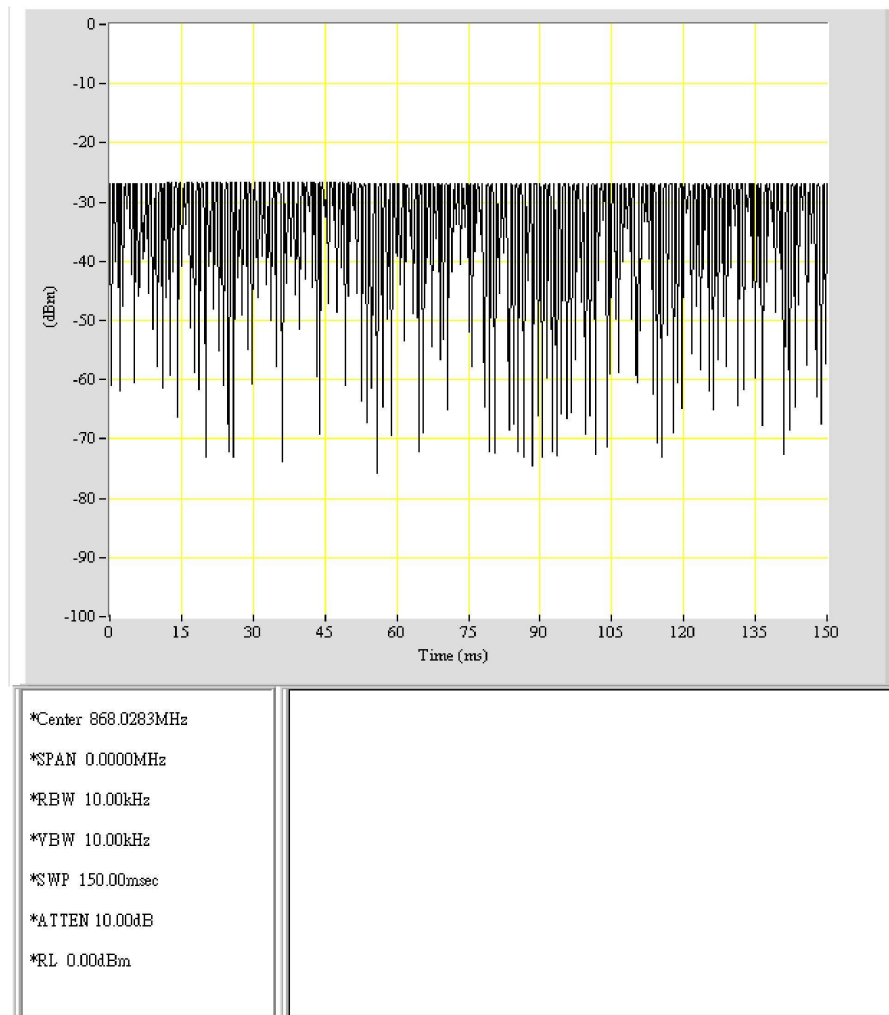
The following instrument are used for radiated emissions measurement :

Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
EMI Test Receiver	HP	8546A	13054404-001	Sep. 06, 2005
BiconiLog Antenna	Schwarzbeck	VULB 9160	13057310-001	Oct. 28,2005
Spectrum Analyzer	Rohde & Schwarz	FSU46	100051	Oct. 03,2005
Horn Antenna	EMCO	3115	9107-3729	Jun. 04, 2005

Note: The standards used to perform this calibration are traceable to NML/ROC, NIST/USA and NPL.

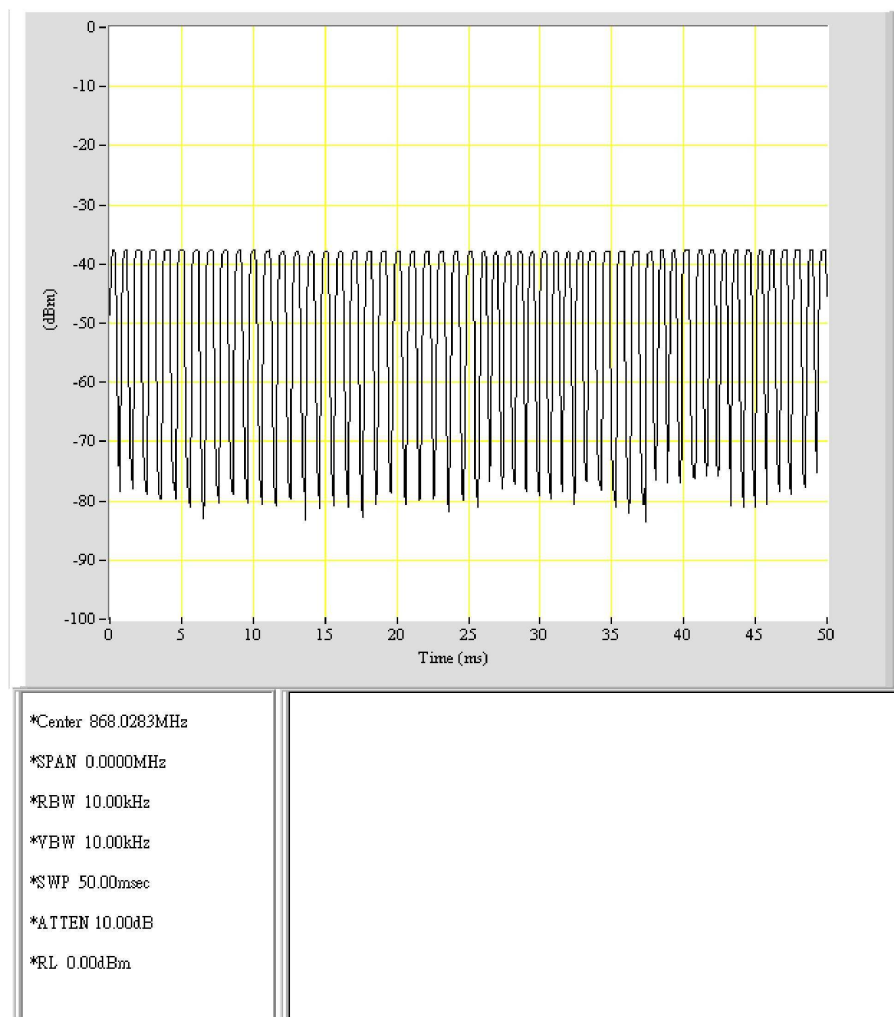
CH 1

Plotted graph 1 of Duty Factor



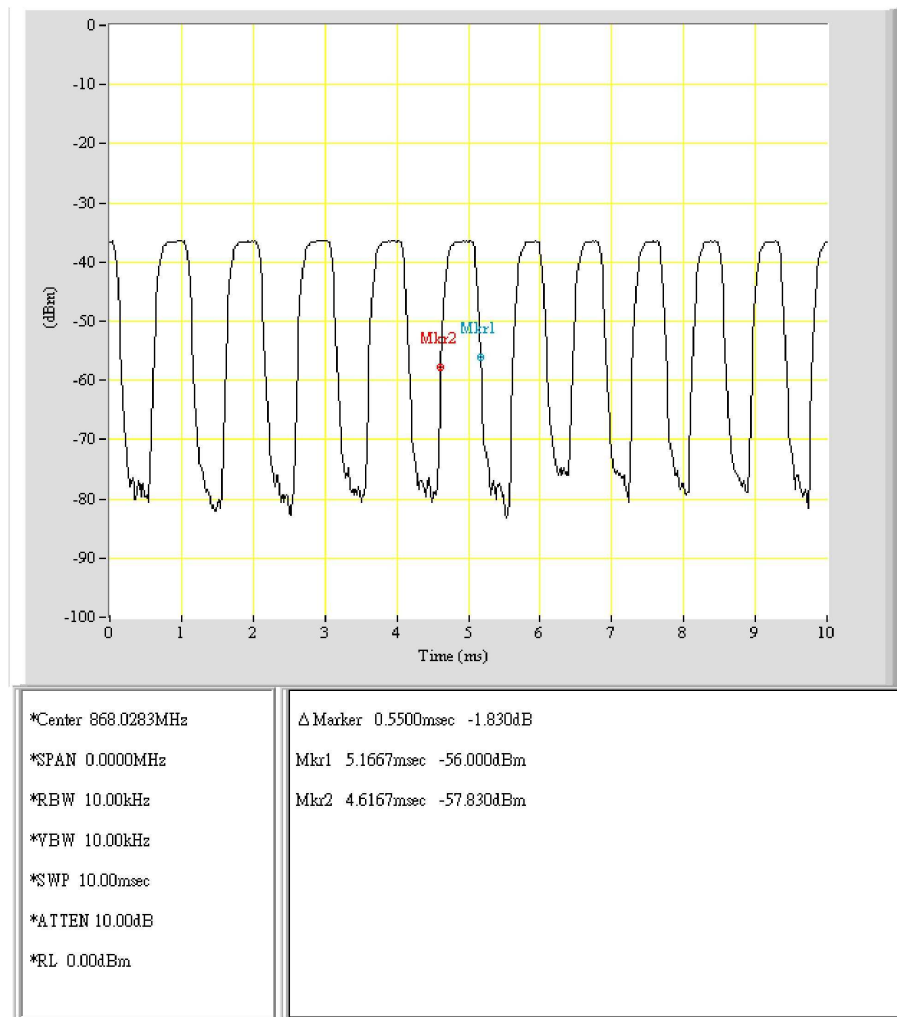
EUT: A5-PROP
Purpose: Duty_Cycle
Condition: Tx_868_CH1_1
Note:

Plotted graph 2 of Duty Factor



EUT: A5-PROP
Purpose: Duty_Cycle
Condition: Tx_868_CH1_2
Note:

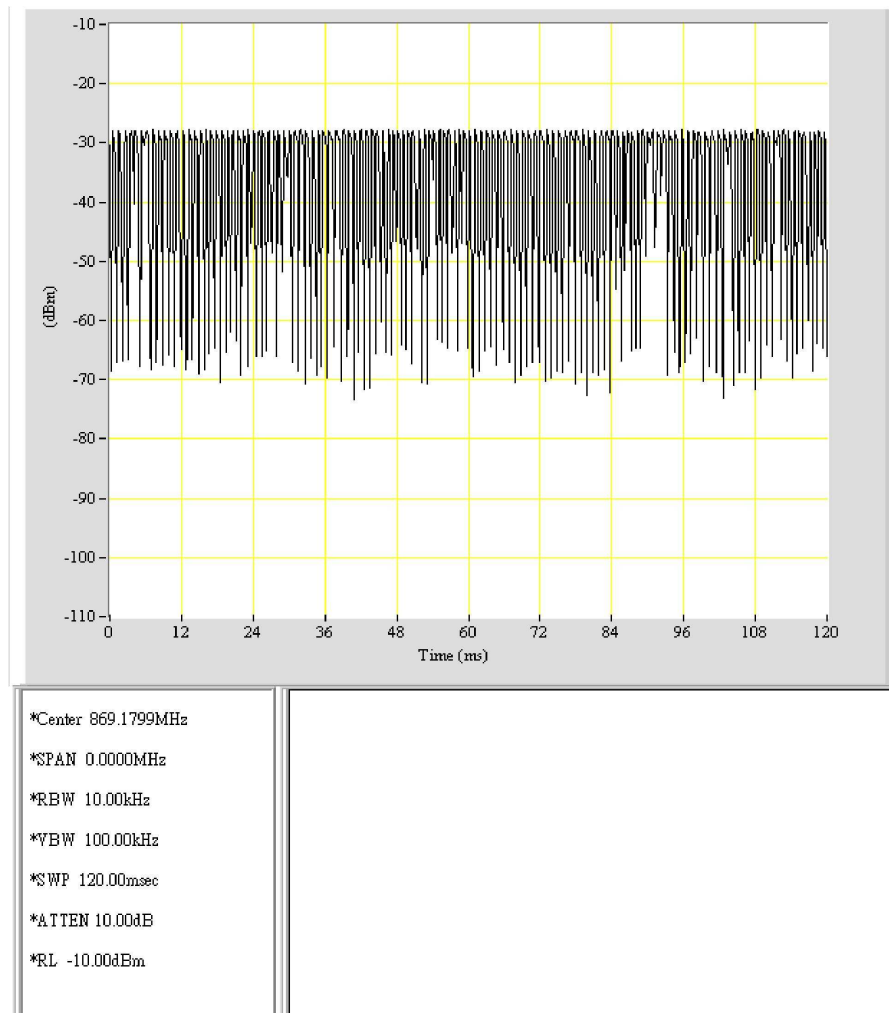
Plotted graph 3 of Duty Factor



EUT: A5-PROP
Purpose: Duty_Cycle
Condition: Tx_868_CH1_3
Note:

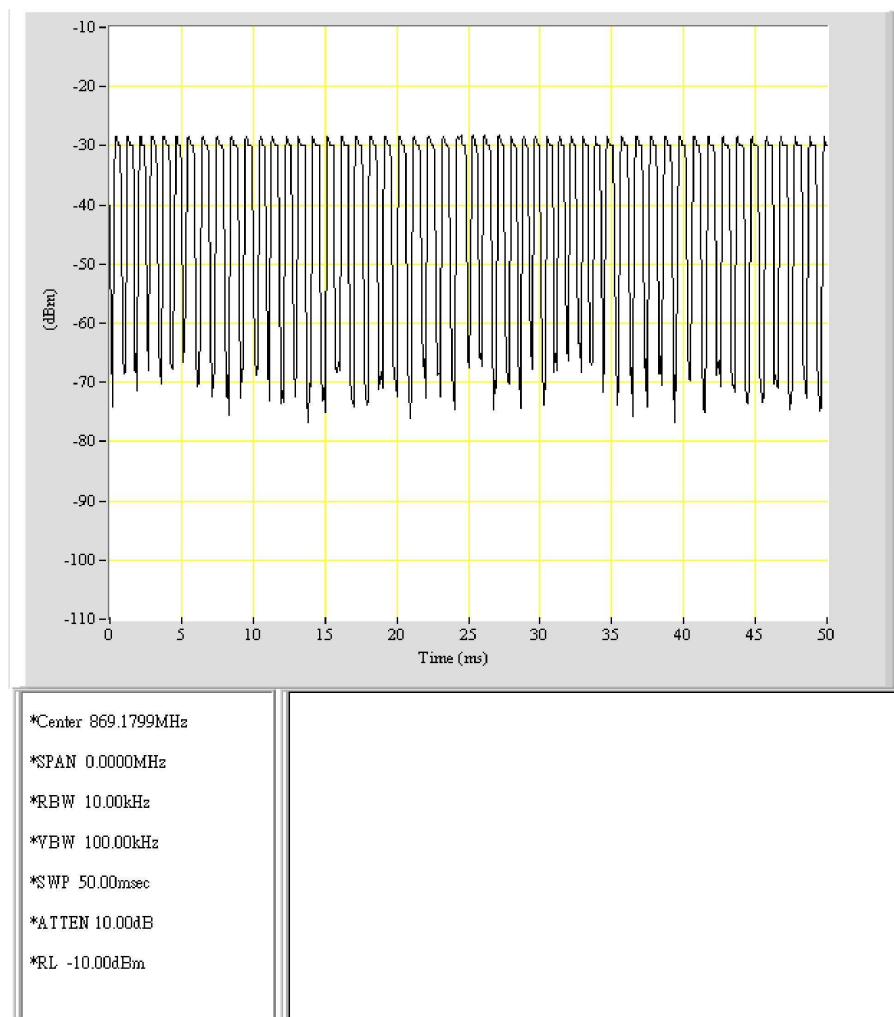
CH 20

Plotted graph 1 of Duty Factor



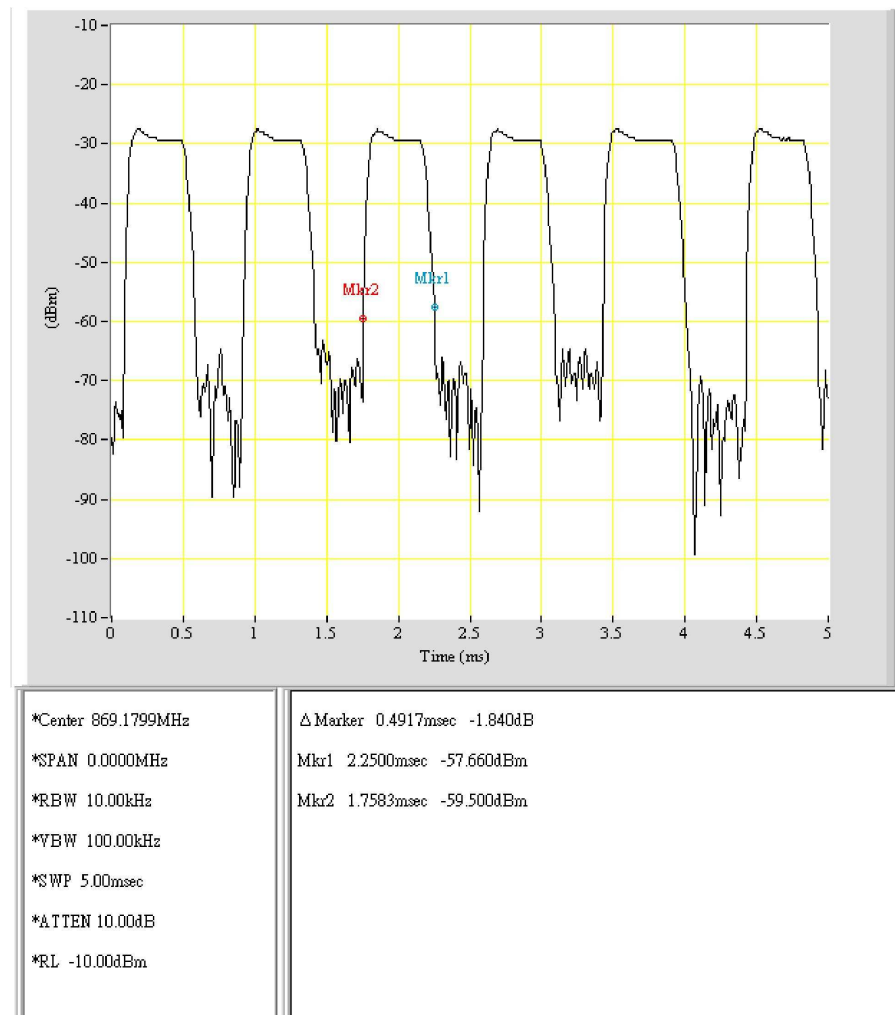
EUT: A5-PROP
Purpose: DUTY_CYCLE
Condition: Tx_868_CH2_01
Note:

Plotted graph 2 of Duty Factor



EUT: A5-PROP
Purpose: DUTY_CYCLE
Condition: Tx_868_CH2_02
Note:

Plotted graph 3 of Duty Factor



EUT: A5-PROP
Purpose: DUTY_CYCLE
Condition: Tx_868_CH2_03
Note:

3.6 Measuring Instrument Setup

Measuring instrument setup in measured frequency band when specified detector function is used :

Frequency Band (MHz)	Instrument	Function	Resolution Bandwidth	Video Bandwidth
30 to 1000	EMI Test Receiver	Peak	120 kHz	300 kHz
1000 to 5000	EMI Test Receiver	Peak	1 MHz	1 MHz