# 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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*Total number of pages of this test report: 34 pages*

*Total number of pages of photos: External photos 2 pages*
*Internal photos 6 pages*
*Setup photos 2 pages*

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# TEST REPORT CERTIFICATION

| | |
|---|---|
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| 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) |

The testing described in this report has been carried out to the best of our knowledge and ability, and our responsibility is limited to the exercise of reasonable care. This certification is not intended to believe the sellers from their legal and/or contractual obligations.

The compliance test is only certified for the test equipment and the results of the testing report relate only to the item tested. The compliance test of this report was conducted in accordance with the appropriate standards. It's not intention to assure the quality and performance of the product. This report shall not be reproduced except in full, without the approval of ETC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

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② ISO/IEC 17025: BSMI, CNLA, DGT, NVLAP, CCIBLAC, UL, Compliance
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

# Table of Contents Page

**1. GENERAL INFORMATION ..... 4**

1.1 PRODUCT DESCRIPTION ..... 4
1.2 CHARACTERISTICS OF DEVICE: ..... 4
1.3 TEST METHODOLOGY ..... 4
1.4 TEST FACILITY ..... 4

**2. DEFINITION AND LIMITS ..... 5**

2.1 DEFINITION ..... 5
2.2 RESTRICTED BANDS OF OPERATION ..... 5
2.3 LIMITATION ..... 6
2.4 LABELING REQUIREMENT ..... 7
2.5 USER INFORMATION ..... 7

**3. RADIATED EMISSION MEASUREMENT ..... 8**

3.1 APPLICABLE STANDARD ..... 8
3.2 MEASUREMENT PROCEDURE ..... 8
3.3 TEST DATA ..... 10
3.4 FIELD STRENGTH CALCULATION ..... 20
3.5 RADIATED TEST EQUIPMENT ..... 20
3.6 MEASURING INSTRUMENT SETUP ..... 27

**4. BANDWIDTH OF EMISSION ..... 28**

4.1 APPLICABLE STANDARD PLOT GRAPHIC OF BANDWIDTH ..... 28
4.2 TEST EQUIPMENT ..... 28
4.3 TEST RESULT ..... 28

**5. CONDUCTED EMISSION MEASUREMENT ..... 31**

**6. LIMIT OF TRANSMISSION TIME ..... 32**

6.1 APPLICABLE STANDARD ..... 32
6.2 ACTIVE TIME ..... 32

# 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 μV | Average dB μV |
|---|---|---|
| 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 μV/meter | dBμV/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 to 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 antennna 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

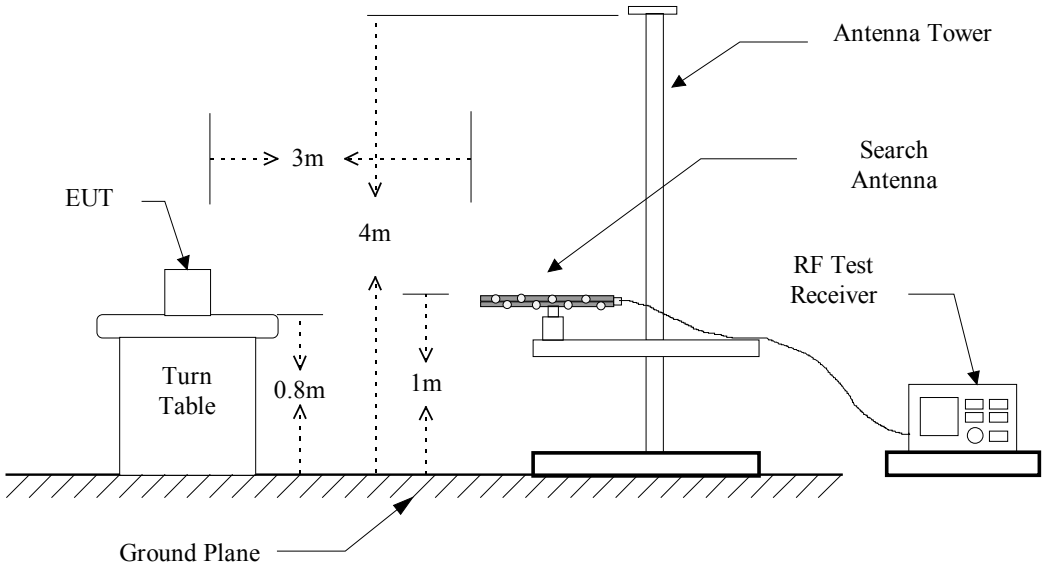
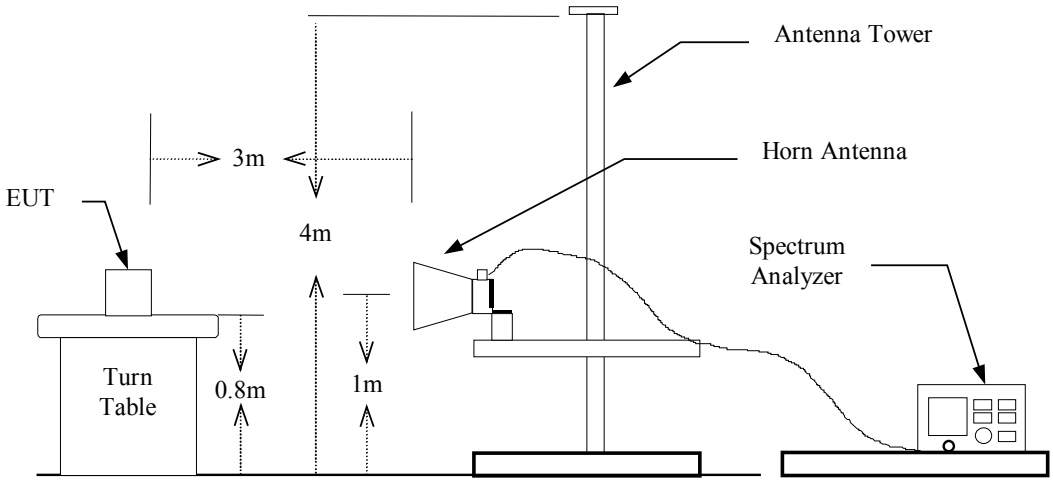



Figure 2 : Frequencies measured above 1 GHz configuration



## 3.3 Test Data

3.3.1 Fundamental and Harmonic (CH 01)

Operated mode : Transmitting (CH 01)

Test Date : Mar. 17, 2005 Temperature : 20 ℃ Humidity : 64 %

| Frequency (MHz) | Ant Pol H / V | Reading (dBuV) Peak | Correct Factor (dB) | Duty Factor (dB) | Result @3m (dBuV/m) Peak | Result @3m (dBuV/m) AVG | Limit @3m (dBuV/m) Peak | Limit @3m (dBuV/m) 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 ℃ 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 ℃ Humidity : 64 %

| Frequency (MHz) | Ant Pol H / V | Reading (dBuV) Peak | Correct Factor (dB) | Duty Factor (dB) | Result @3m (dBuV/m) Peak | Result @3m (dBuV/m) AVG | Limit @3m (dBuV/m) Peak | Limit @3m (dBuV/m) 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 ℃ 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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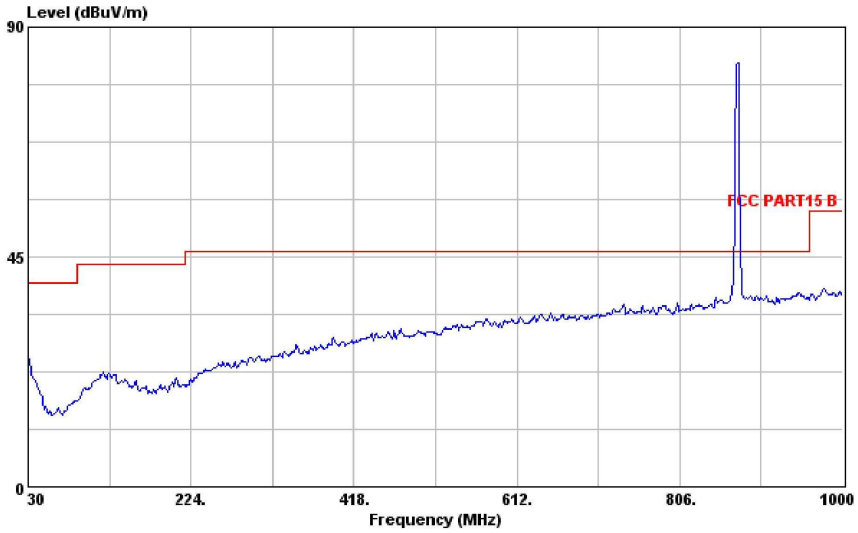


Site : MOO SITE
Condition : FCC PART15 B 3m HORIZONTAL
EUT : REMOTE CONTROLLER
Model : A5-PROP
Memo : CH01

ETC TEST LABORTARY

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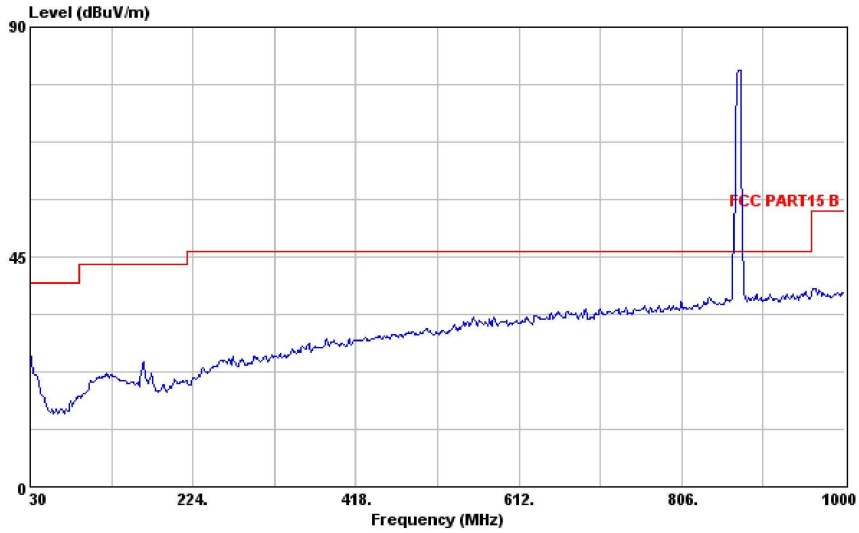


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EUT : REMOTE CONTROLLER
Model : A5-PROP
Memo : CH01

ETC TEST LABORTARY

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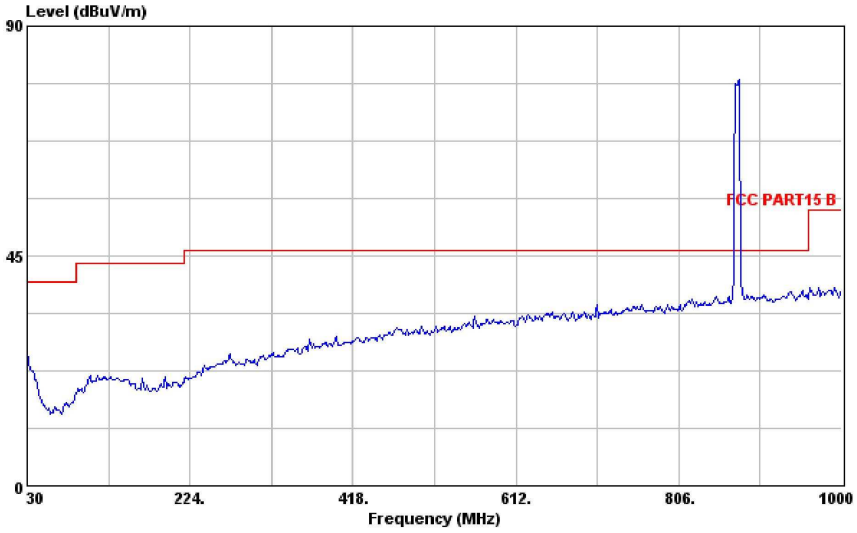


Site : MOO SITE
Condition : FCC PART15 B 3m HORIZONTAL
EUT : REMOTE CONTROLLER
Model : A5-PROP
Memo : CH20

ETC TEST LABORTARY

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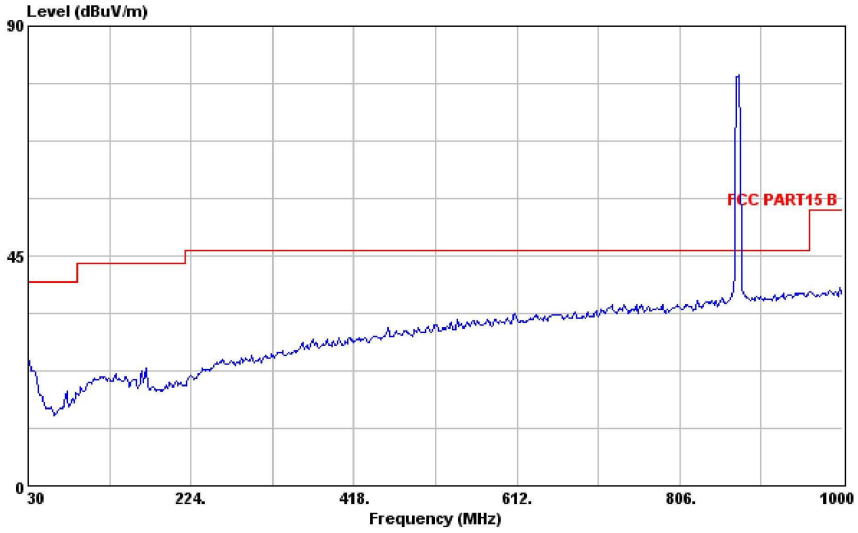
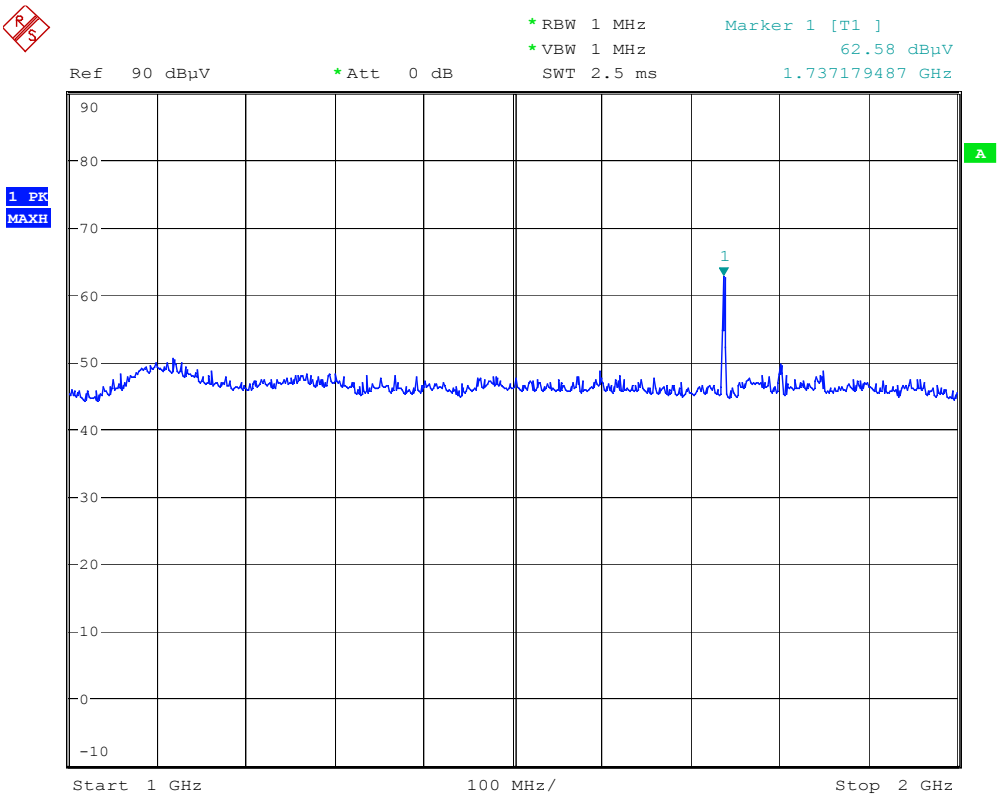
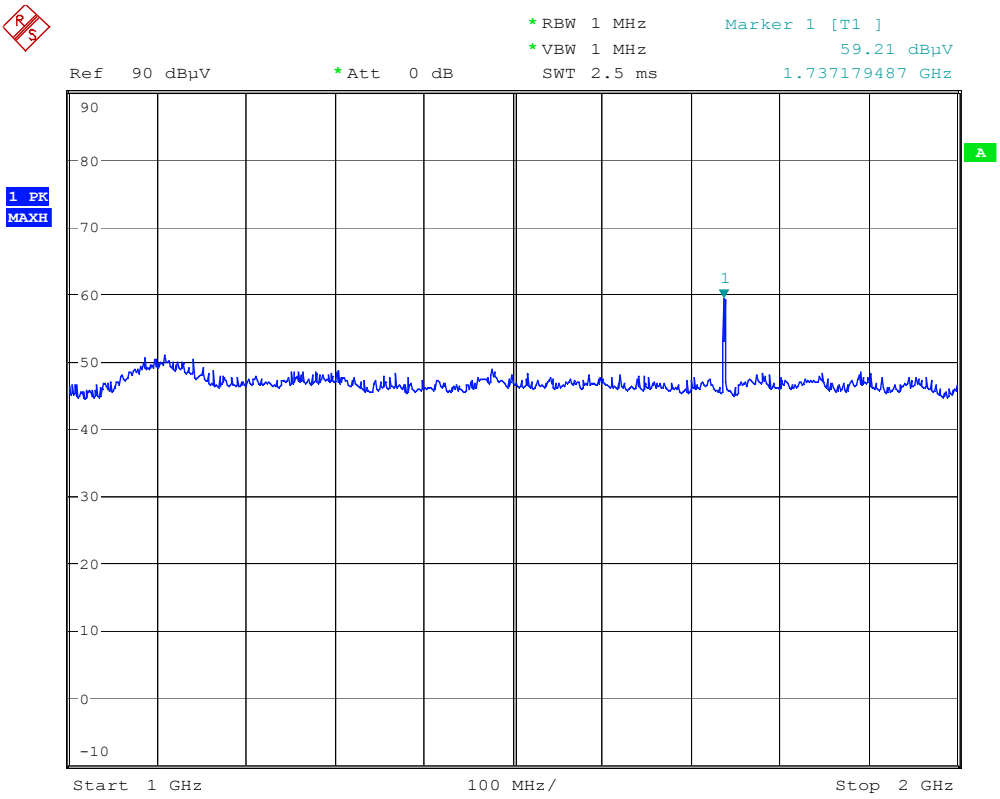



Site : MOO SITE
Condition : FCC PART15 B 3m VERTICAL
EUT : REMOTE CONTROLLER
Model : A5-PROP
Memo : CH20




Date: 17.MAR.2005 13:53:14

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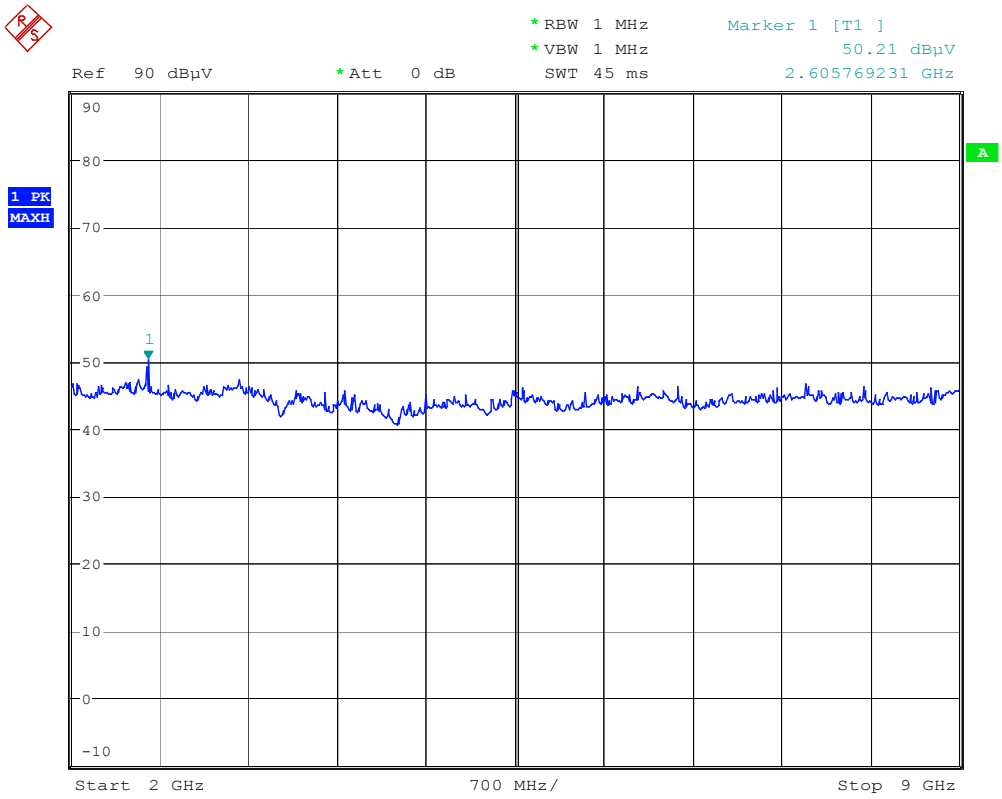


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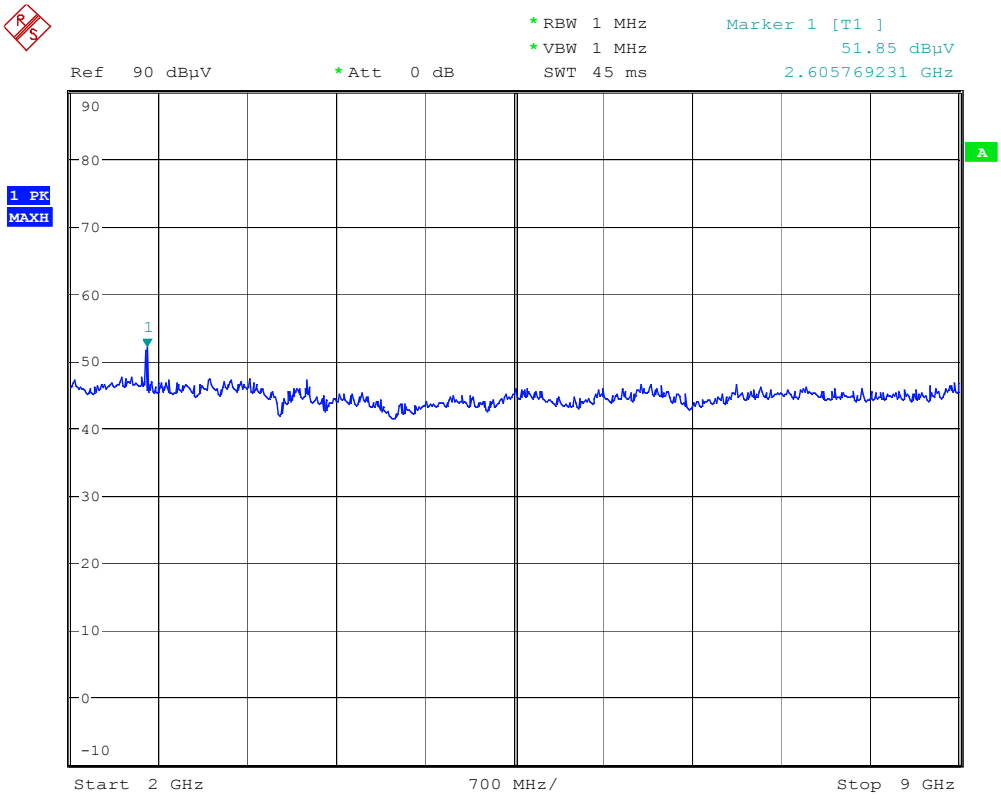


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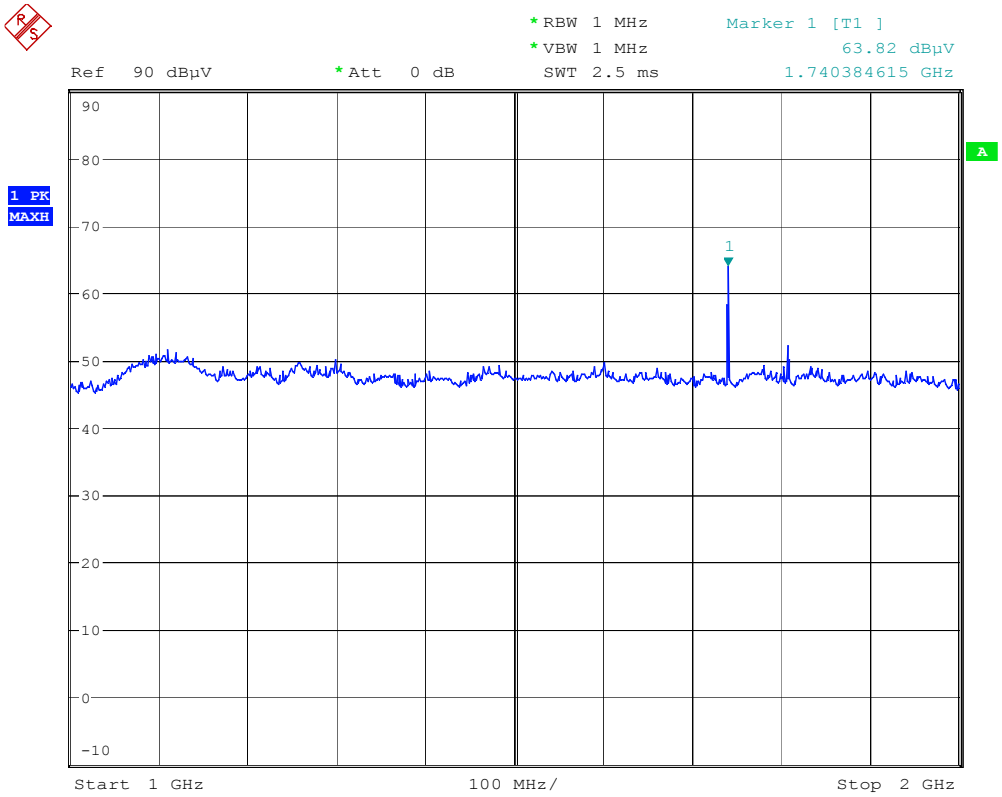


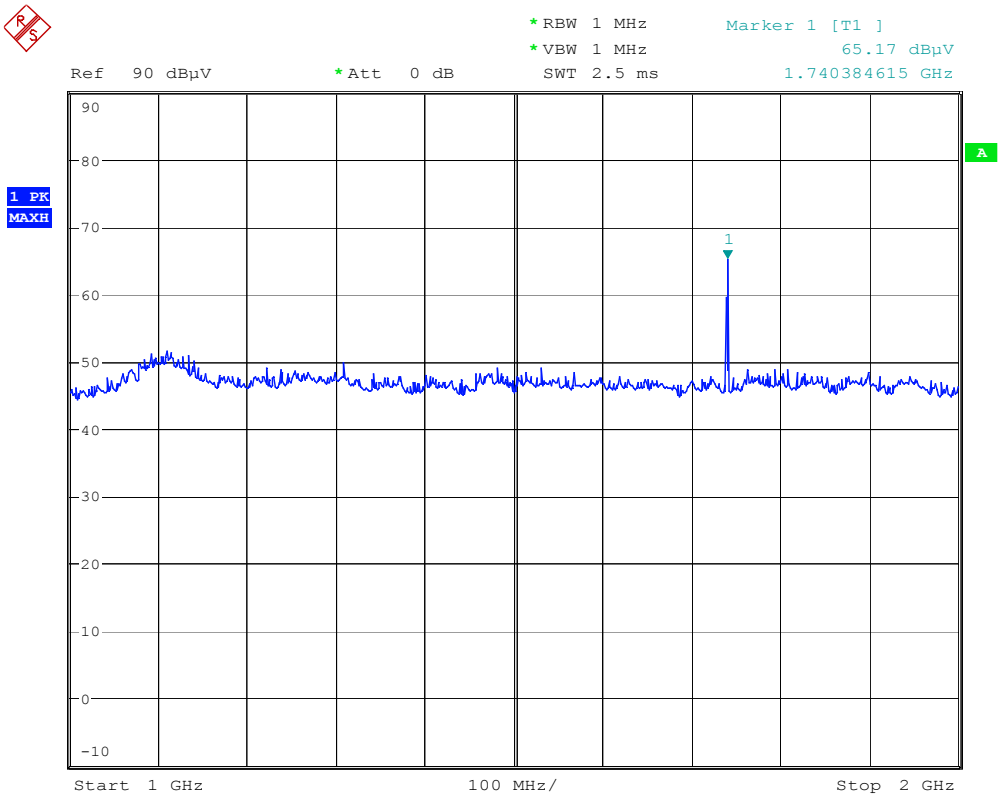


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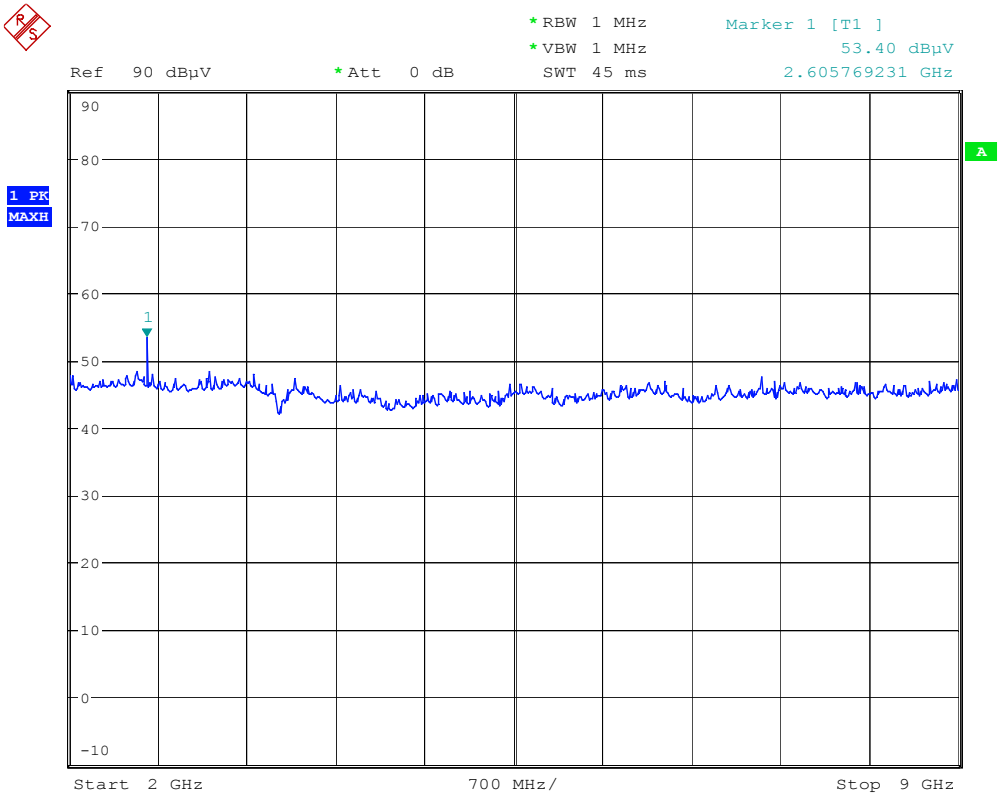


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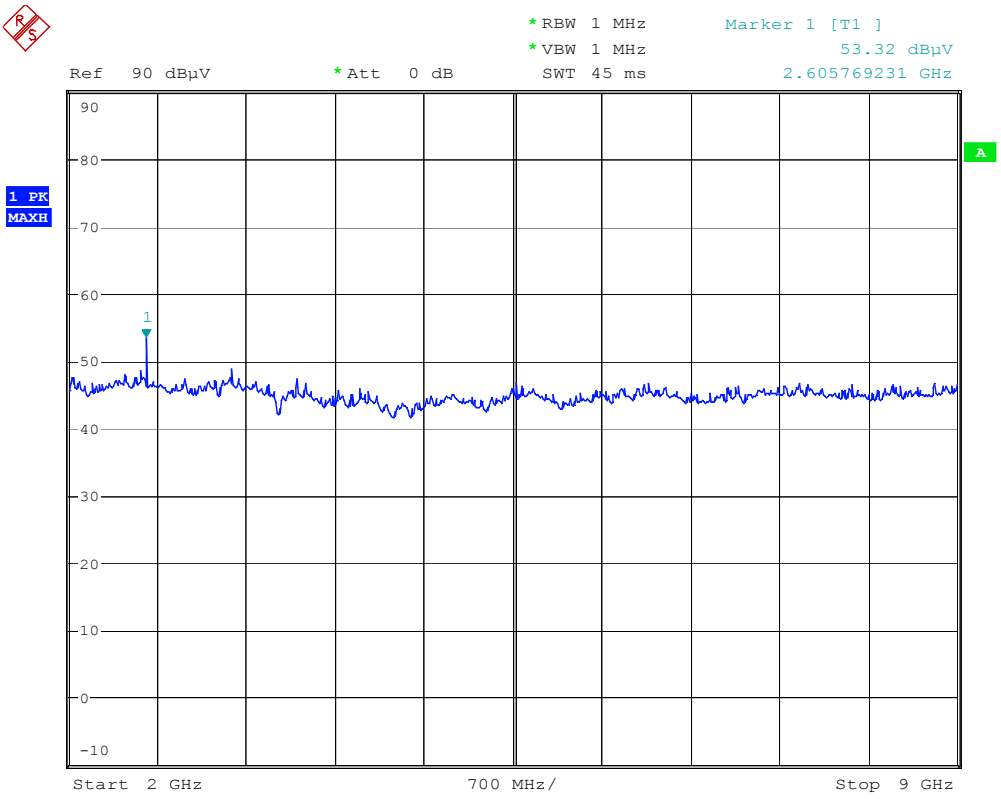



Date: 17.MAR.2005 13:25:12

## 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:

***RESULT = READING + CORR. FACTOR***

where CORR. FACTOR = Antenna FACTOR + Cable FACTOR

Assume a receiver reading of 62.4 dB $\mu$ 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 $\mu$ V/m.

RESULT = 62.4 + 14.1 + 3.4 = 79.9 dB $\mu$ V/m
Level in $\mu$ V/m = Common Antilogarithm[(79.9 dB $\mu$ V/m)/20] = 9885.5 $\mu$ 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.

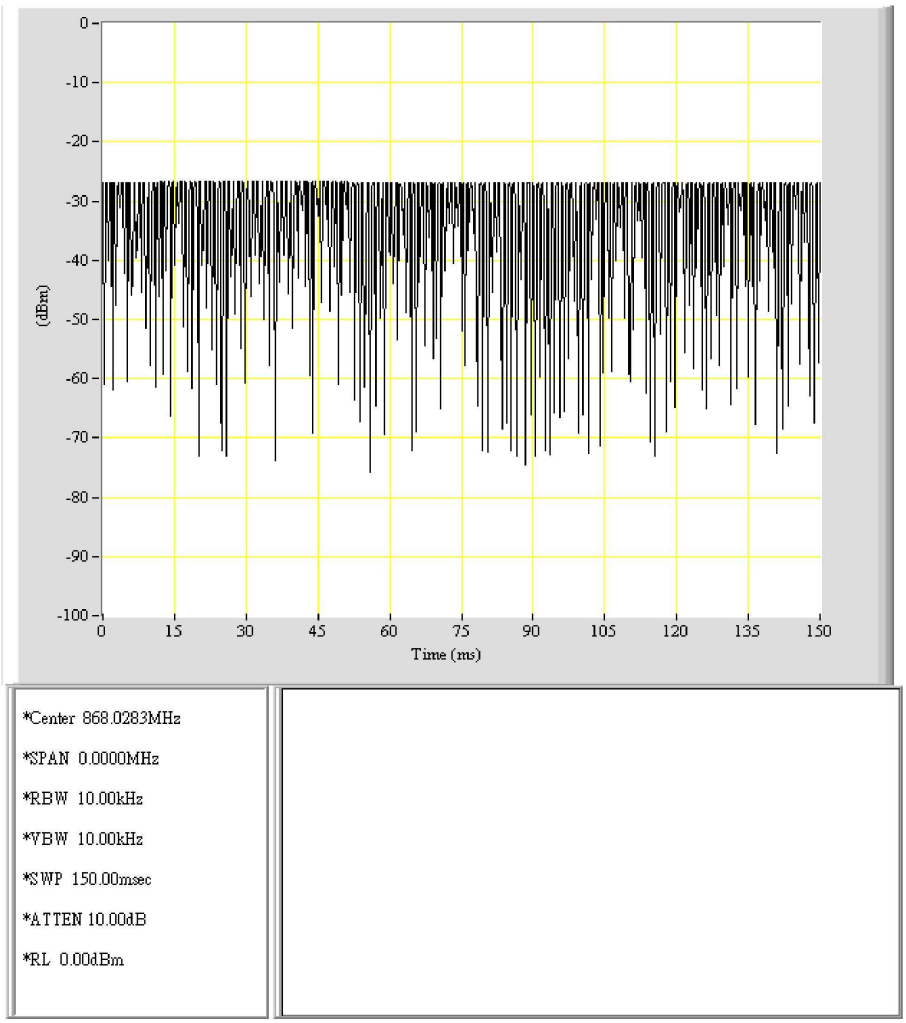
## 3.5 Radiated Test Equipment

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 |

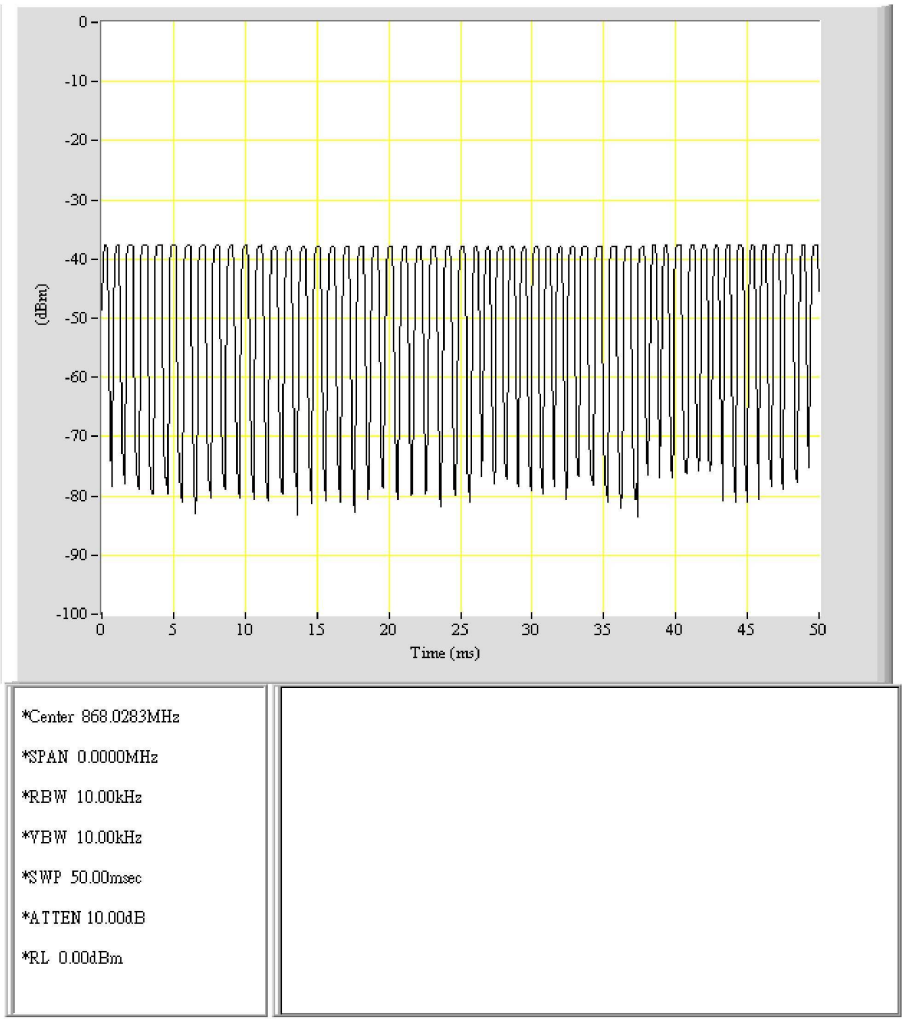
Note: The standards used to perform this calibration are traceable to NML/ROC, NIST/USA and NPL.

CH 1
Plotted graph 1 of Duty Factor



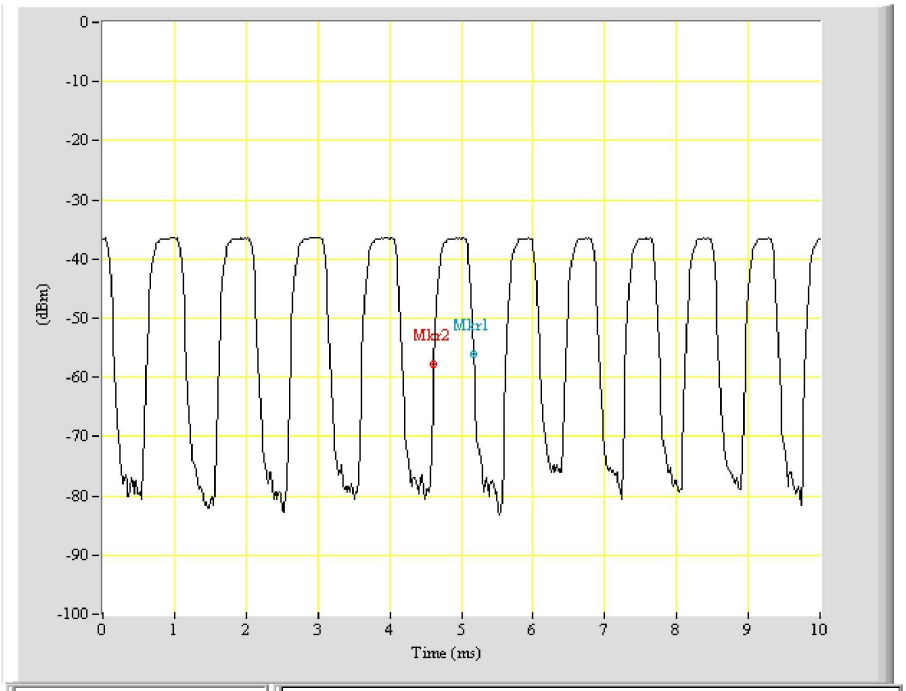

EUT: A5-PROP
Purpose: Duty_Cycle
Condition: Tx_868_CH1_1
Note:

Plotted graph 2 of Duty Factor




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

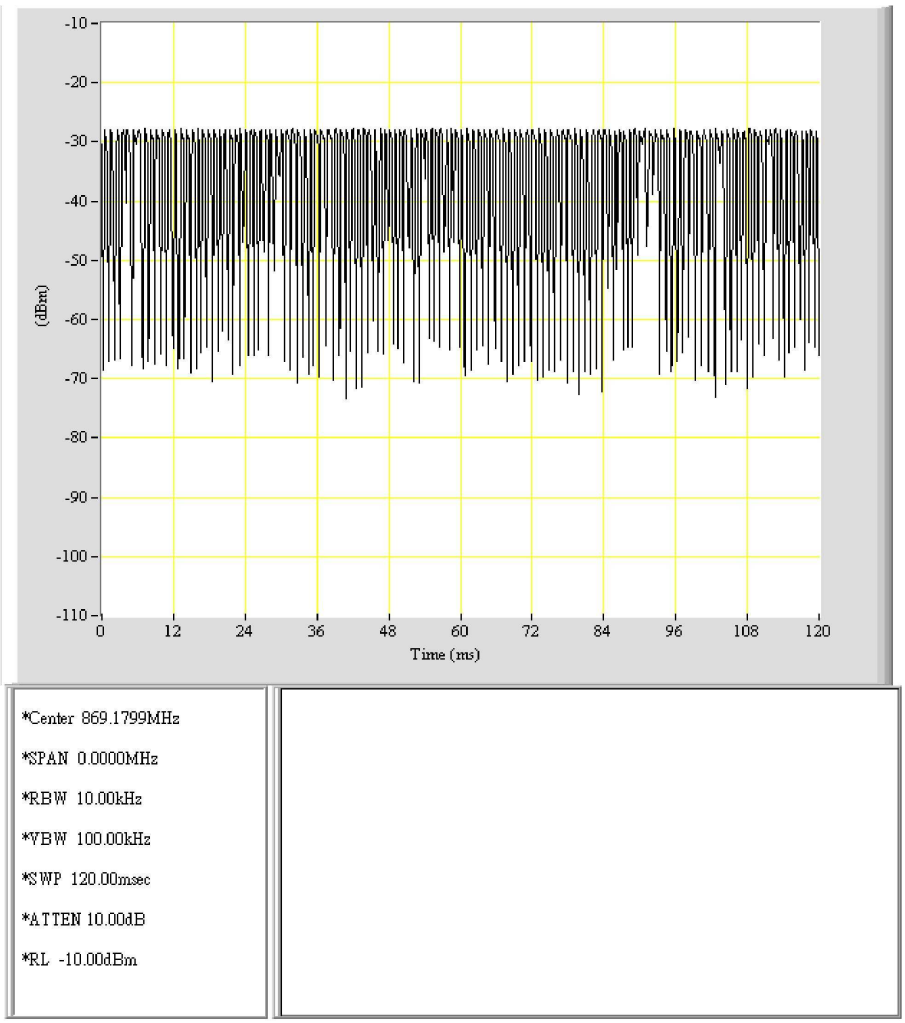
Plotted graph 3 of Duty Factor




| | |
|---|---|
| *Center 868.0283MHz | Δ Marker 0.5500msec -1.830dB |
| *SPAN 0.0000MHz | Mkr1 5.1667msec -56.000dBm |
| *RBW 10.00kHz | Mkr2 4.6167msec -57.830dBm |
| *VBW 10.00kHz | |
| *SWP 10.00msec | |
| *ATTEN 10.00dB | |
| *RL 0.00dBm | |

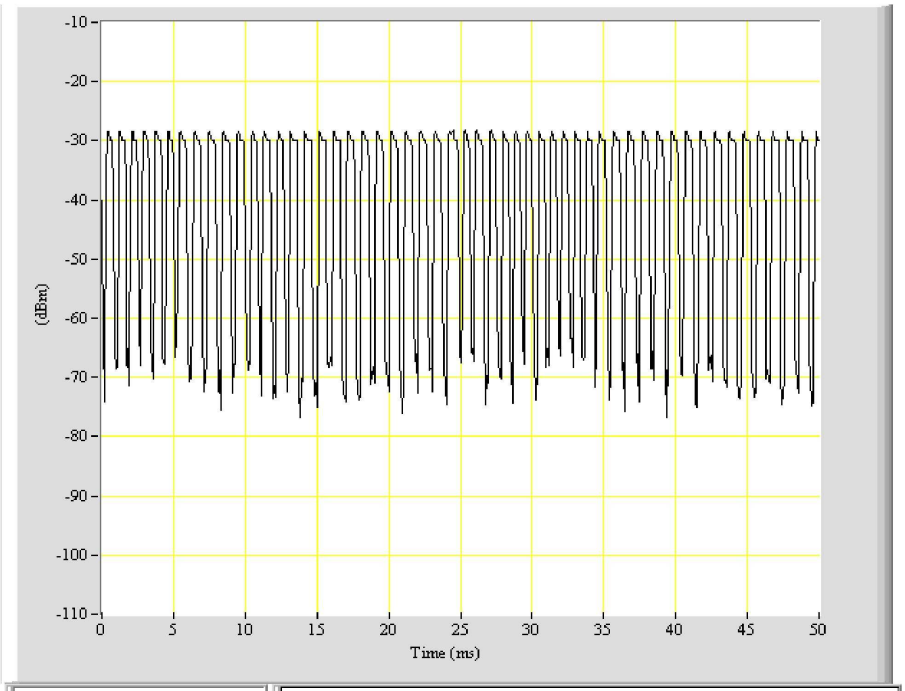
EUT: A5-PROP
Purpose: Duty_Cycle
Condition: Tx_868_CH1_3
Note:

CH 20
Plotted graph 1 of Duty Factor




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

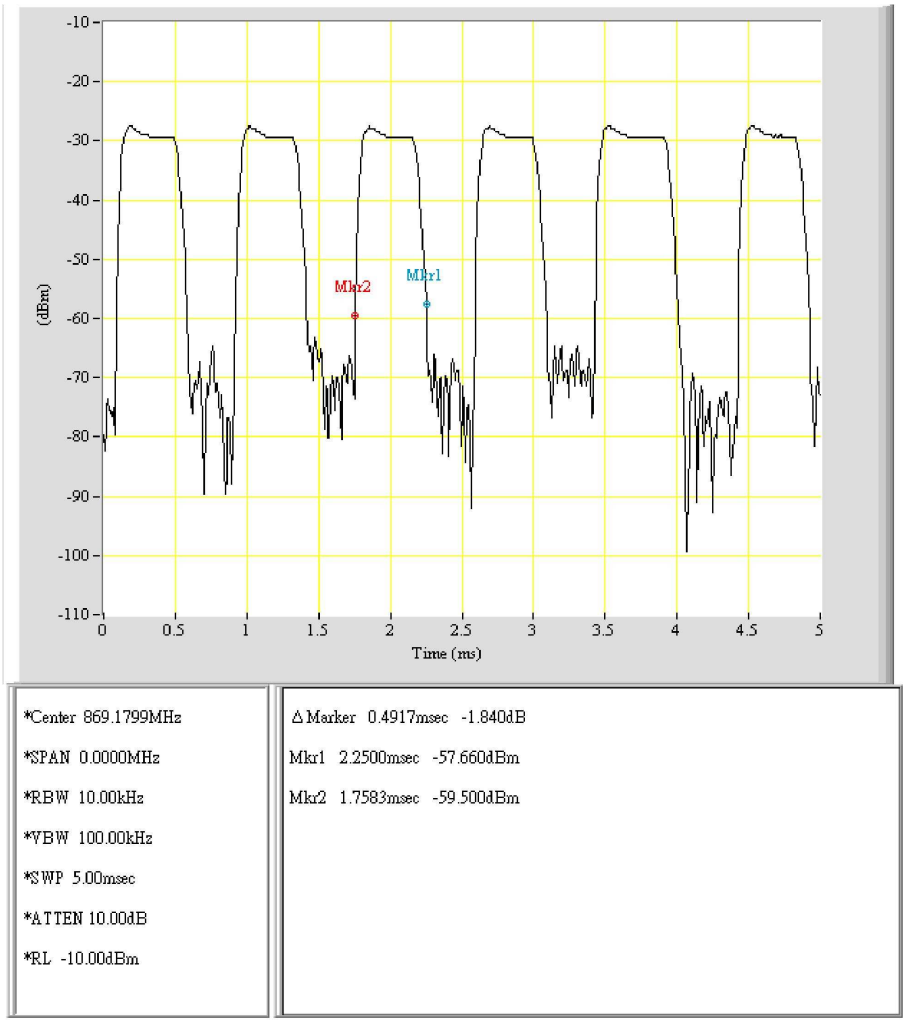
Plotted graph 2 of Duty Factor




*Center 869.1799MHz
*SPAN 0.0000MHz
*RBW 10.00kHz
*VBW 100.00kHz
*SWP 50.00msec
*ATTEN 10.00dB
*RL -10.00dBm

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 |