

FCC ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT CERTIFICATION TO FCC PART 15 REQUIREMENTS

for

INTENTIONAL RADIATOR

of

CAR ALARM TRANSMITTER

FCC ID Number : ELVATCD
Trade Name : NUTEK CORPORATION
Model Number : APS99BT3SBCF4
Agency Series : N/A
Report Number : C30819410-RP
Date : October 20, 2003

Prepared for :

NUTEK CORPORATION
5F, NO. 3, ALLEY 6, LANE 45, PAO-HSING RD.,
HSING-TIEN CITY, TAIPEI, TAIWAN, R.O.C.

Prepared by :

Compliance Certification Services Inc.
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1. VERIFICATION OF COMPLIANCE

COMPANY NAME : NUTEK CORPORATION
5F, NO. 3, ALLEY 6, LANE 45, PAO-HSING RD.,
HSING-TIEN CITY, TAIPEI, TAIWAN, R.O.C.

CONTACT PERSON : RUBY HSIEH / MARKETING DEPT.

TELEPHONE NO. : (886-2) 2918-9478

EUT DESCRIPTION : CAR ALARM TRANSMITTER

MODEL NAME/NUMBER : APS99BT3SBCF4

FCC ID : ELVATCD

DATE TESTED : August 18, 2003 & August 19, 2003

REPORT NUMBER : C30819410-RP

| | |
|-----------------------|---|
| TYPE OF EQUIPMENT | SECURITY EQUIPMENT (INTENTIONAL RADIATOR) |
| EQUIPMENT TYPE | 433.92 MHz CAR ALARM TRANSMITTER |
| MEASUREMENT PROCEDURE | ANSI 63.4 / 1992 |
| LIMIT TYPE | CERTIFICATION |
| FCC RULE | CFR 47, PART 15 |

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in the FCC CFR 47, PART 15. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties. **Warning:** This document reports conditions under which testing was conducted and results of tests performed. This document may not be altered or revised in any way unless done so by Compliance Engineering Services, Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services Inc. will constitute fraud and shall nullify the document.

Vince Chiang / Supervisor
Compliance Certification Services Inc.

2. PRODUCT DESCRIPTION

| | |
|-----------------------|---|
| Fundamental Frequency | 433.92 MHz |
| Power Source | 12V Battery |
| Transmitting Time | Periodic \leq 5 seconds |
| Associated Receiver | Model: ELVAR8B |

3. TEST FACILITY

The open area test sites and conducted measurement facilities used to collect the radiated data are located at No. 165 & No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan R.O.C. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

4. MEASUREMENT STANDARDS

The site is constructed and calibrated in conformance with the requirements of ANSI C63.4/1992.

5. TEST METHODOLOGY

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 KHz, up to at least the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. (CFR 47 Section 15.33)



6. MEASUREMENT EQUIPMENT USED

| Manufacturer | Model Number | Description | Cal Due Date |
|---------------------|---------------------|----------------------------|---------------------|
| SCHAFFNER | SCR3501 | MEASURE RECEIVER | 06/16/04 |
| ADVANTEST | R3132 | SPECTRUM ANALYZER | 09/17/03 |
| SCHAFFNER | CBL 6112B | ANTENNA | 10/01/03 |
| BELDEN | 9913 | CABLE | 10/13/03 |
| SCHAFFNER | CPA9231A | PRE-AMPLIFIER | 10/30/03 |
| CCS | N/A | Site NSA | 09/22/03 |
| EMCO | 3115 | ANTENNA (1-18GHz) | 02/24/04 |
| HP | 8449B | AMPLIFIER (1-26.5GHz) | 02/20/04 |
| HUBER+SUHNER | SUCOFLEX 104 | CABLE (1-18GHz) | 02/20/04 |
| JYEBAO | LL143 | CABLE (1-18GHz) | 02/20/04 |
| JYEBAO | LL142 | CABLE (1-18GHz) | 02/20/04 |
| HP | 8566B | EMC ANALYZER (100Hz-22GHz) | 06/25/04 |

7. POWERLINE RFI LIMIT

| | |
|--|--|
| CONNECTED TO AC POWER LINE | SECTION 15.207 |
| CARRIER CURRENT SYSTEM IN THE FREQUENCY RANGE OF 450 KHz TO 30 MHz | SECTION 15.205 AND SECTION 15.209, 15.221, 15.223, 15.225 OR 15.227, AS APPROPRIATE. |
| BATTERY POWER | NO REQUIRED. |

8. RADIATED EMISSION LIMITS

| | |
|--|----------------|
| GENERAL REQUIREMENTS | SECTION 15.209 |
| RESTRICTED BANDS OF OPERATION | SECTION 15.205 |
| PERIODIC OPERATION IN THE BAND 40.66 -40.70 MHz AND ABOVE 70 MHz. | SECTION 15.231 |

9. SYSTEM TEST CONFIGURATION

Use a block of foam and combined it with EUT wrapping rubber band around it. This way it can test X.Y, and Z axis. To activate continuous transmission, place a small plastic block between rubber band and EUT push button.



Radiated Open Site Test Set-up

10. TEST PROCEDURE

Radiated Emissions, 15.231(4)(b)

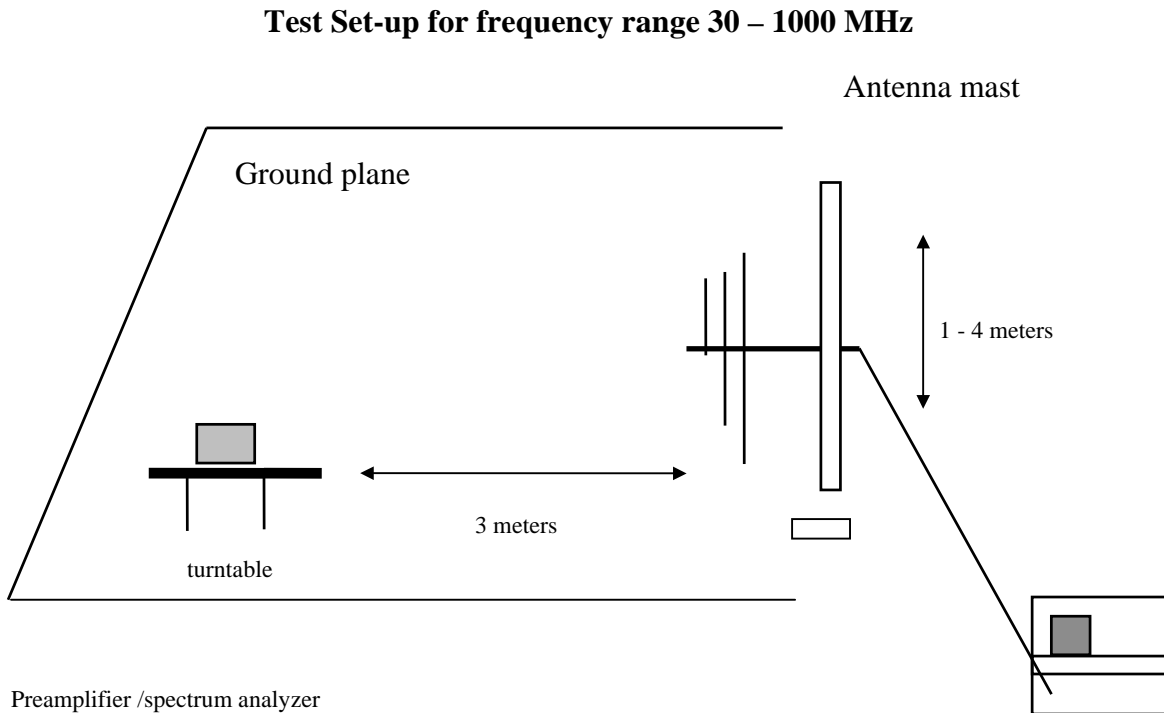


Fig. 1

1. The EUT was placed on a wooden table on the outdoor ground plane. The search antenna was placed 3-meters from the EUT.
2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205. The EUT was moved throughout the XY, XZ, and YZ planes to maximize emissions received by the search antenna.
3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.

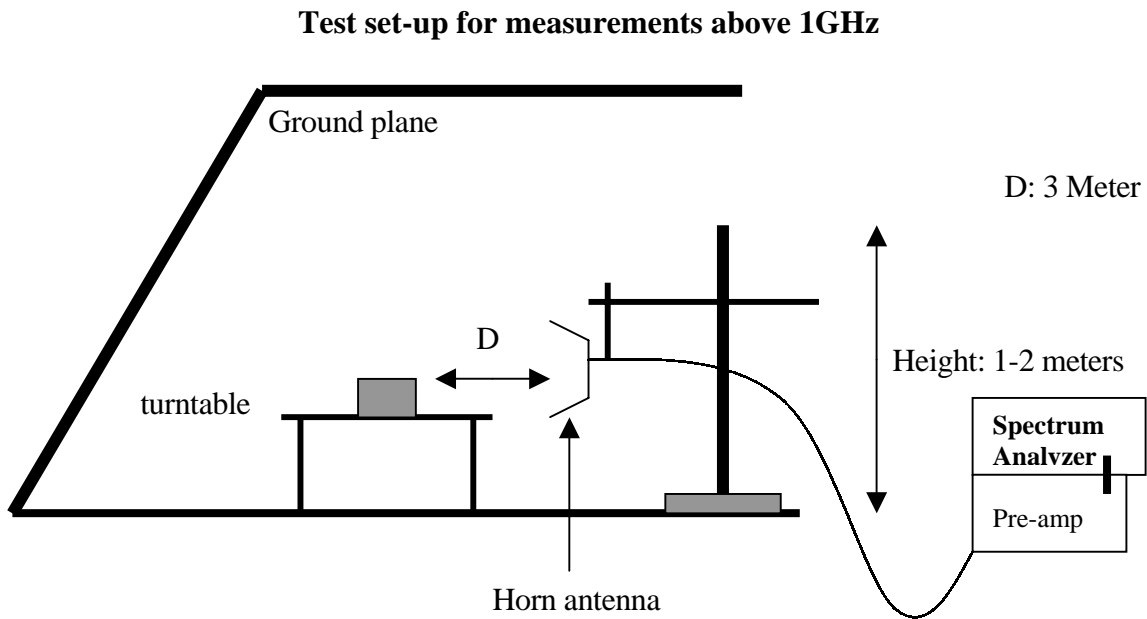


Fig. 2

1. The EUT was placed on a wooden table on the outdoor ground plane. The search antenna was placed 1-meters from the EUT. The EUT antenna was mounted vertically as per normal installation.
2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205. The EUT was moved throughout the XY, XZ, and YZ planes to maximize emissions received by the search antenna.
3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.

11. Equipment Modifications

To achieve compliance to FCC Section 15.231 technical limits, the following change(s) were made during compliance testing:

NONE

12. TEST RESULT

| Powerline RFI Class B | Eut | Radiated Emission Limits | Eut |
|--|------------|---------------------------------|------------|
| SECTION 15.207 | | SECTION 15.209 | X |
| SECTION 15.205, 15.209, 15.221, 15.223, x 15.225 OR 15.227 | | SECTION 15.205 | |
| BATTERY POWER | X | SECTION 15.231 (b) | X |
| | | SECTION 15.231 (e) | |

12.1 Maximum Modulation Percentage (M%)

CALCULATION:

$$\text{Average Reading} = \text{Peak Reading (dBuV/m)} + 20 \log (\text{Duty Cycle})$$

In order to determine possible Maximum Modulation percentage, alternations are made to the EUT.
 We measured:

WHERE 1 Period = 107.8 mS > 100 mS. use 100 mS for calculation
 Long pulse = 0.74 mS
 Short pulse = 0.25 mS
 No of Long pulse = 13
 No of Short pulse = 24

$$\text{Duty Cycle} = (N1L1 + N2L2 + \dots + Nn-1Ln-1 + NnLn) / 100 \text{ or } T$$

$$\text{Duty Cycle} = [(13 \times 0.74) + (24 \times 0.25)] / 100 = 0.1562 = 15.62 \% \text{ or } -16.126 \text{dB}$$

12.2 The Emissions Bandwidth

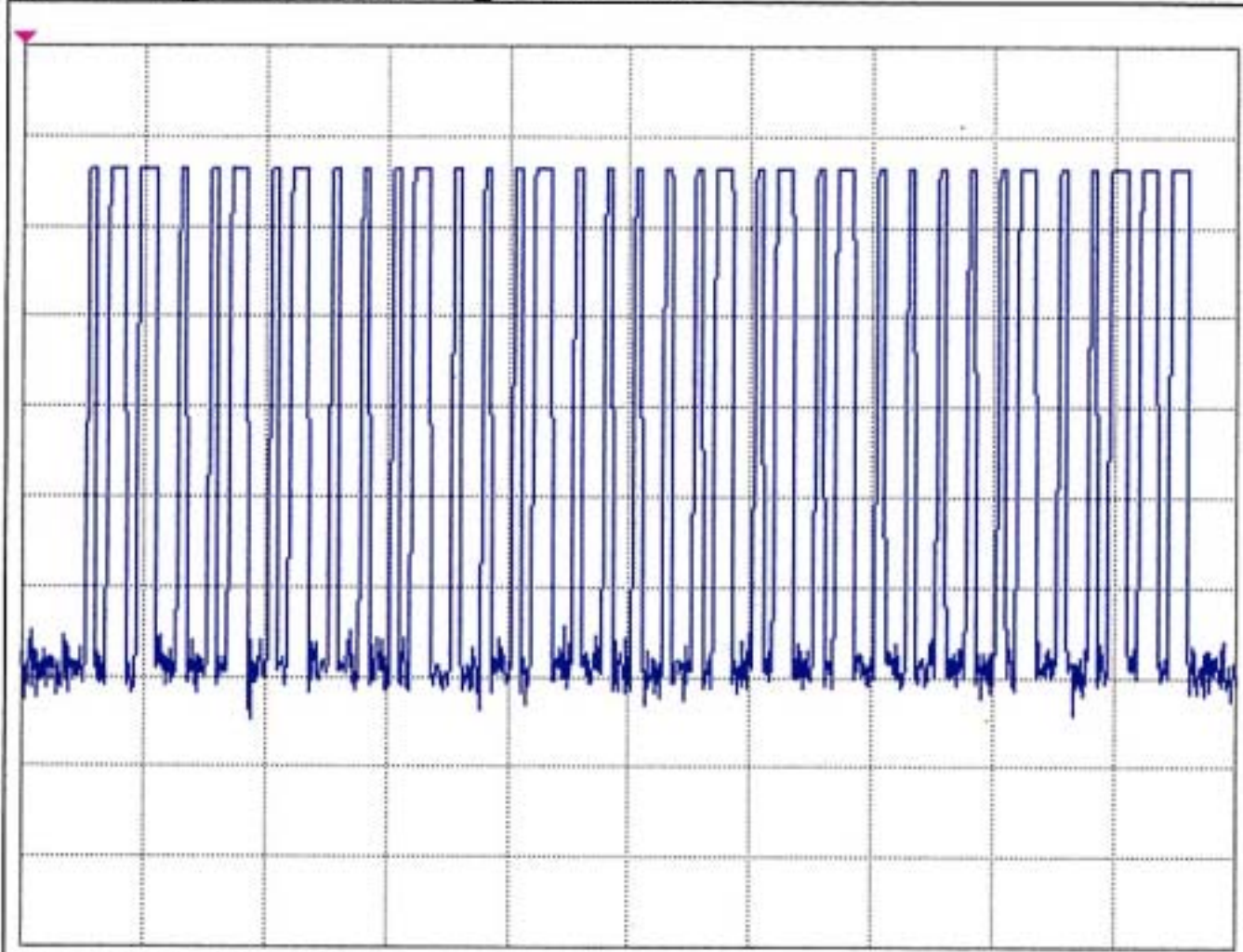
The bandwidth of the emissions were investigated per 15.231(c)

| Center Frequency | Measured | Limits |
|------------------|--------------------------------|---------------------------------|
| 433.92 MHz | 408.0 kHz < (refer to plot) | 433.92 MHz X 0.25% = 1084.8 kHz |

Mon 2003 Aug 18 09:28

REF 90.0 dB μ V
10dB/

A_Write Posi B_Write Posi



CENTER 433.894000 MHz

SPAN 0.000 kHz

*RBW 100 kHz

*VBW 100 kHz

*SWP 60 ms

*ATT 10dB

Mon 2003 Aug 18 09:25

REF 90.0 dB μ V

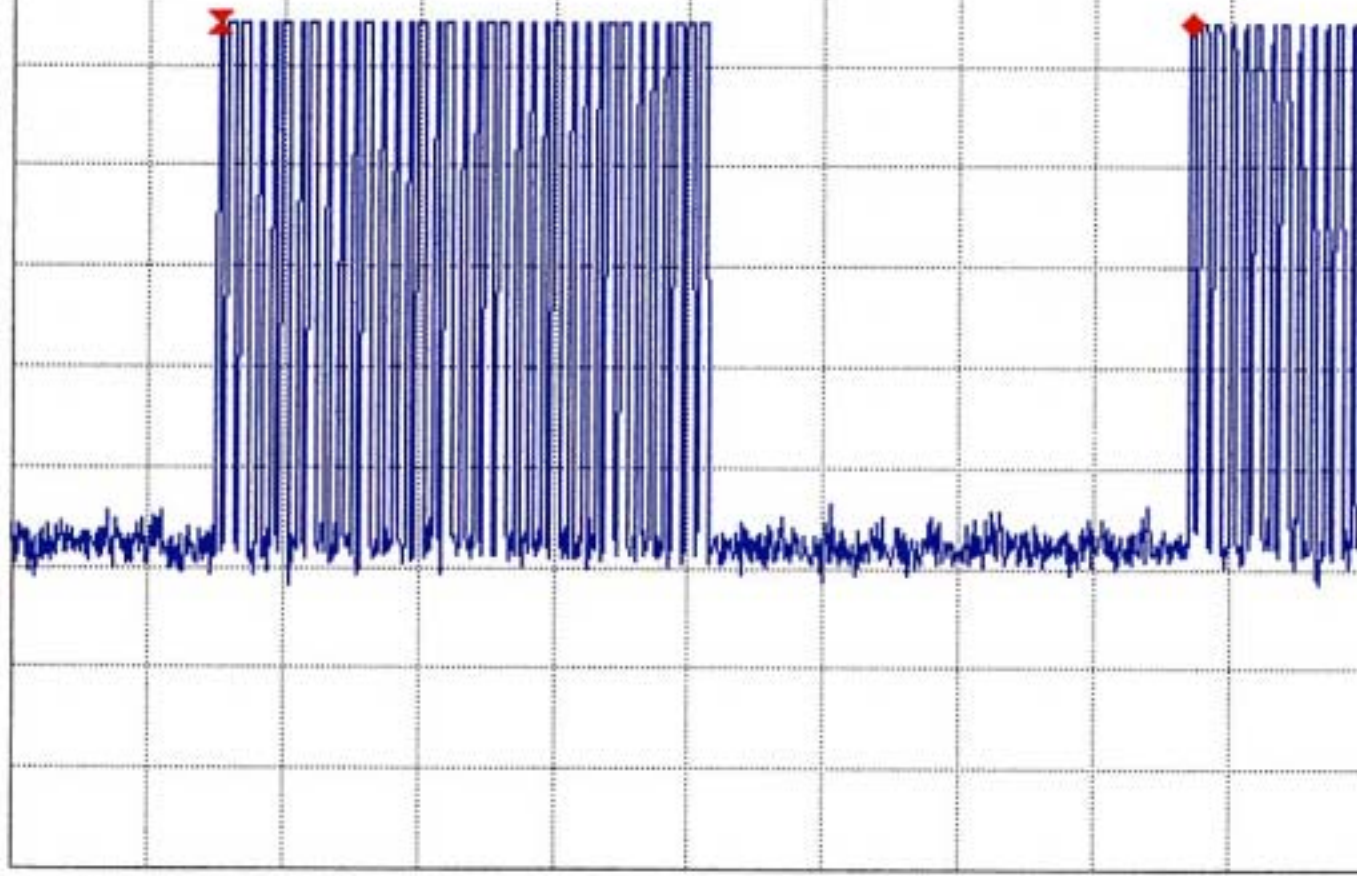
MK Δ 107.8 ms

10dB/

A_Write Posi B_Write Posi

0.03 dB

DELTA MKR
107.8 ms



CENTER 433.894000 MHz

SPAN 0.000 kHz

*RBW 100 kHz *VBW 100 kHz *SWP 150 ms *ATT 10dB

Mon 2003 Aug 18 09:33

REF 90.0 dB μ V

MK Δ 740.0 μ s

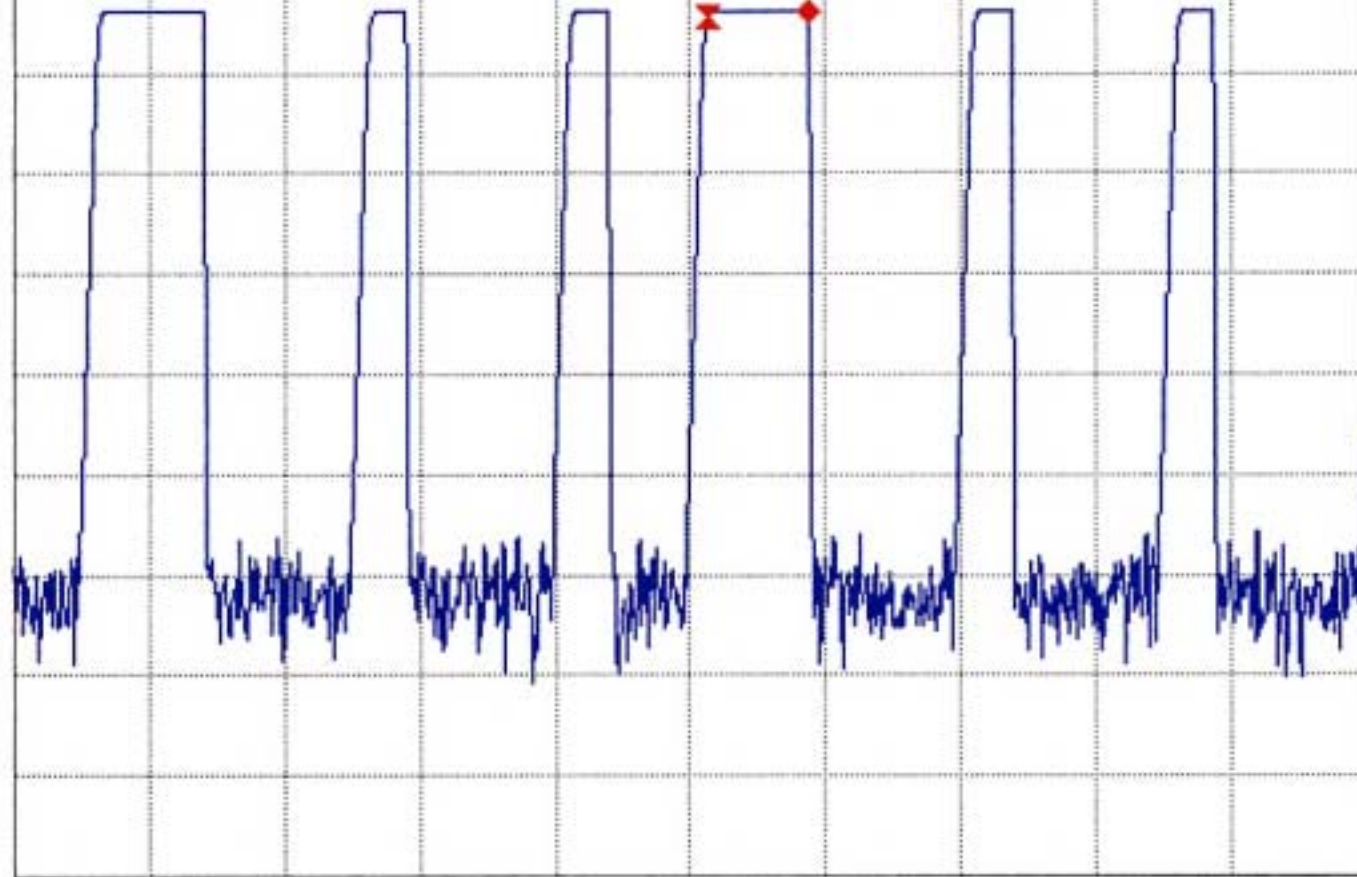
10dB/

A_Write Posi

B_Write Posi

0.55 dB

DELTA MKR
740.0 μ s



CENTER 433.894000 MHz

SPAN 0.000 kHz

*RBW 100 kHz

*VBW 100 kHz

*SWP 10 ms

*ATT 10dB

Mon 2003 Aug 18 09:31

REF 90.0 dB μ V

MK4 250.0 μ s

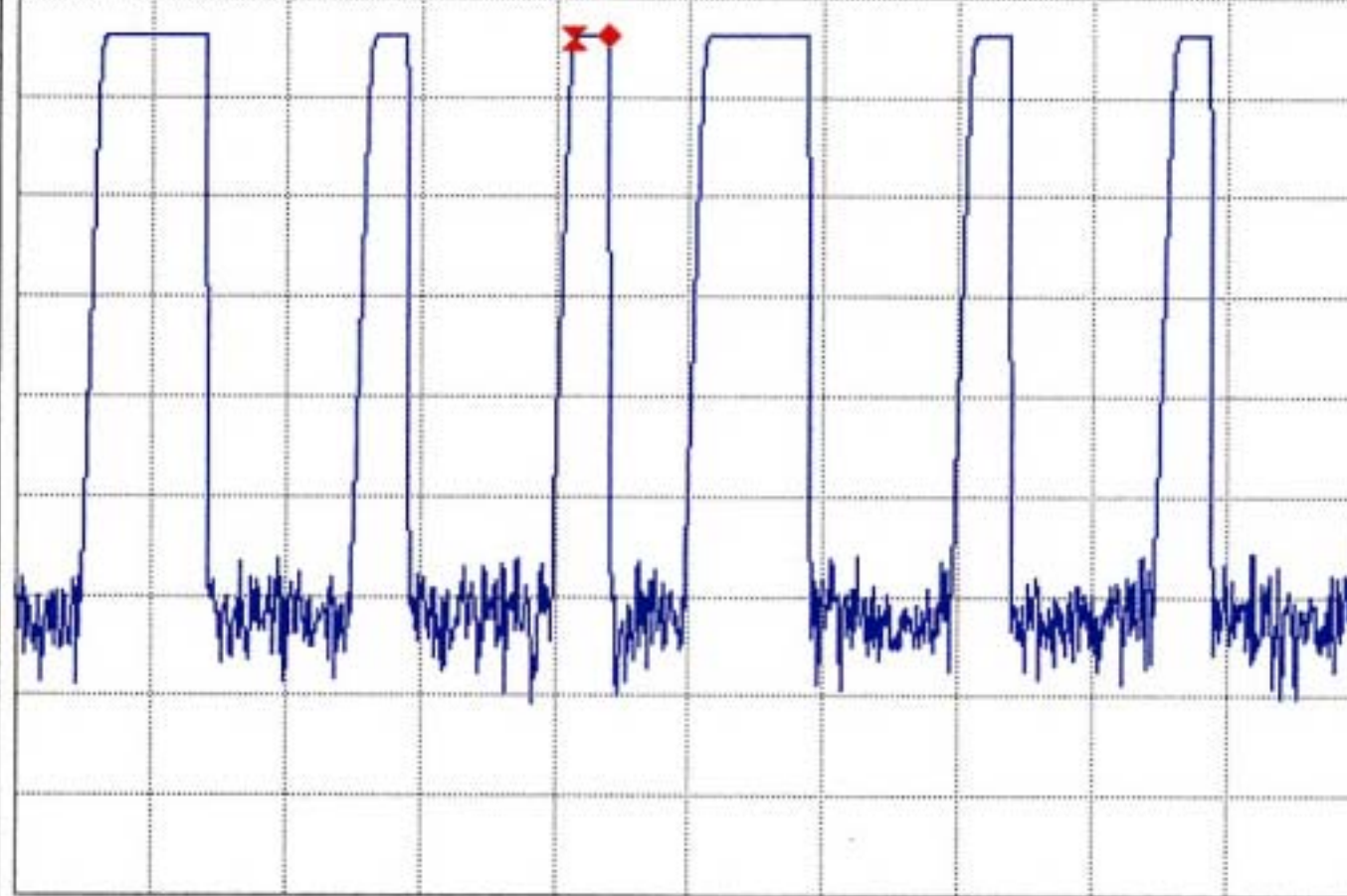
10dB/

A_Write Posi

B_Write Posi

0.38 dB

DELTA MKR
250.0 μ s



CENTER 433.894000 MHz

SPAN 0.000 kHz

*RBW 100 kHz

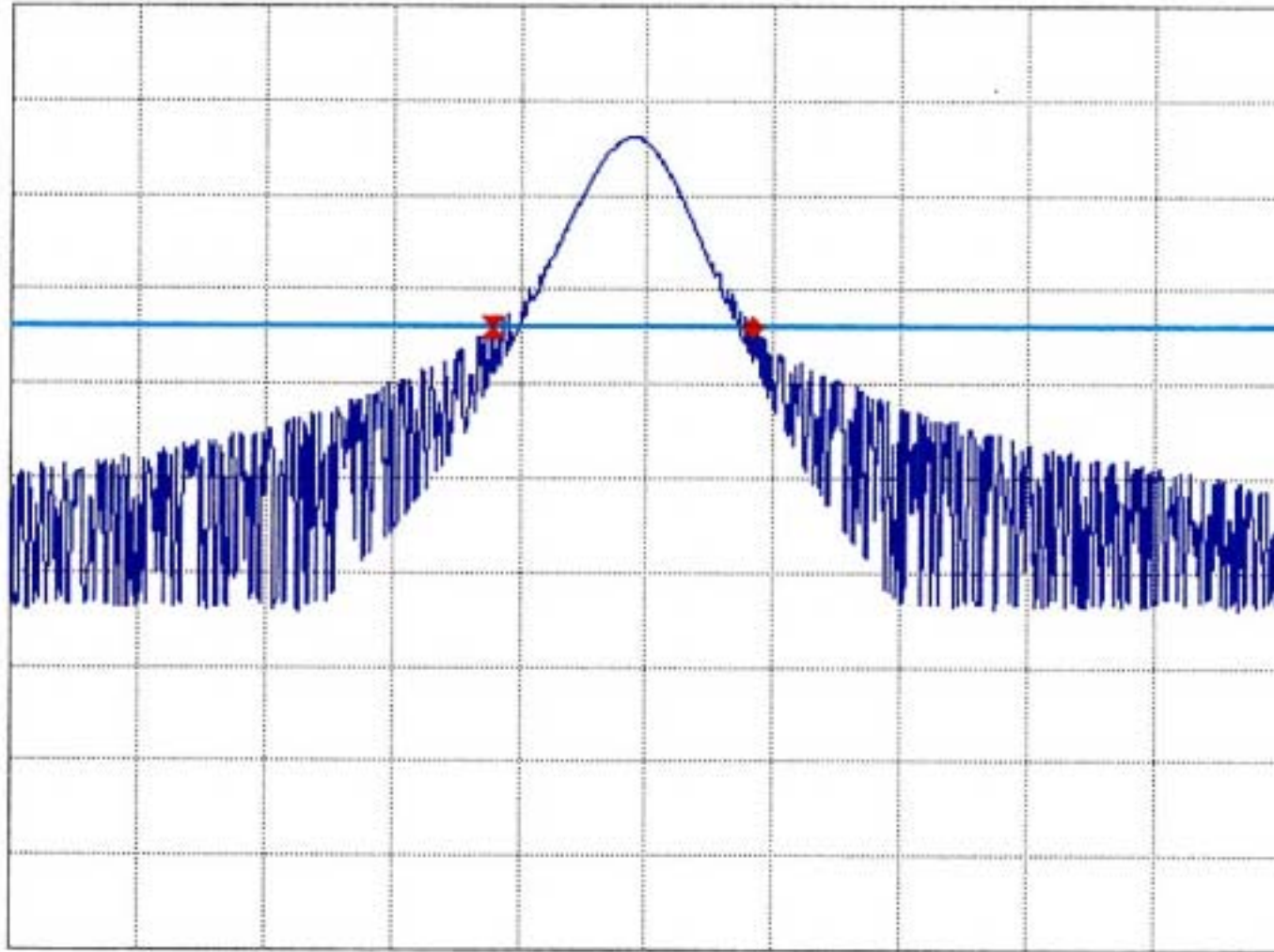
*VBW 100 kHz

*SWP 10 ms

*ATT 10dB

Mon 2003 Aug 18 09:19

REF 90.0 dB μ V DL 56.3 dB μ V MK Δ 408 kHz
10dB/ A_Max Posi B_Blank Posi 0.20 dB



CENTER 433.920 MHz SPAN 2.000 MHz
*RBW 100 kHz *VBW 100 kHz *SWP 10 ms *ATT 10dB

C&C Laboratory CO., LTD.

FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

No. 165, Chung Sheng Road,
Hsin Tien City, Taipei, Taiwan, R.O.C.
PHONE: 02-2217-0894 FAX: 02-2217-1029

Project #: C30819410
Report #: C30819410-RP
Date & Time: 2003/08/19
Test Engr: JIMMY CHEN

Company: NUTEK CORPORATION
EUT Description: APS99BT3SBCF4 (433.92MHz / CAR ALARM TRANSMITTER)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)
Mode of Operation: Normal Mode

IS ite

$$M\% = ((t1+t2+t3+\dots)/T) * 100\% = 15.62 \%$$

$$\begin{aligned} \text{Av Reading} &= \text{Pk Reading} + 20 * \log(M\%) \\ 20 * \log(M\%) &= -16.126 \end{aligned}$$

| | Freq. (MHz) | Pk Rdg (dBuV) | Av Rdg (dBuV) | AF/AT (dB) | Closs (dB) | Pre-amp (dB) | Level (dBuV/m) | Limit FCC_B | Margin (dB) | Pol (H/V) | Az (Deg) | Height (Meter) |
|---|----------------|------------------|------------------|---------------|---------------|-----------------|-------------------|----------------|----------------|--------------|-------------|-------------------|
| | Button #1: | | | | | | | | | | | |
| X | 433.90 | 67.84 | 51.71 | 27.12 | 3.28 | 29.68 | 52.43 | 80.82 | -28.39 | 3mV | 0 | 1.10 |
| | 867.80 | 42.91 | 26.78 | 32.74 | 5.02 | 28.79 | 35.75 | 60.82 | -25.07 | 3mV | 90 | 1.00 |
| Y | 433.90 | 78.98 | 62.85 | 27.12 | 3.28 | 29.68 | 63.57 | 80.82 | -17.25 | 3mV | 270 | 1.10 |
| | 867.79 | 53.43 | 37.30 | 32.74 | 5.02 | 28.79 | 46.27 | 60.82 | -14.55 | 3mV | 180 | 1.50 |
| Z | 433.90 | 78.18 | 62.05 | 27.12 | 3.28 | 29.68 | 62.77 | 80.82 | -18.05 | 3mV | 0 | 1.10 |
| | 867.80 | 52.30 | 36.17 | 32.74 | 5.02 | 28.79 | 45.14 | 60.82 | -15.68 | 3mV | 90 | 1.30 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| X | 433.90 | 75.55 | 59.42 | 27.12 | 3.28 | 29.68 | 60.14 | 80.82 | -20.68 | 3mH | 270 | 1.20 |
| | 867.80 | 46.55 | 30.42 | 32.74 | 5.02 | 28.79 | 39.39 | 60.82 | -21.43 | 3mH | 180 | 1.30 |
| Y | 433.91 | 75.60 | 59.47 | 27.12 | 3.28 | 29.68 | 60.19 | 80.82 | -20.63 | 3mH | 90 | 1.00 |
| | 867.79 | 49.24 | 33.11 | 32.74 | 5.02 | 28.79 | 42.08 | 60.82 | -18.74 | 3mH | 270 | 1.50 |
| Z | 433.90 | 64.20 | 48.07 | 27.12 | 3.28 | 29.68 | 48.79 | 80.82 | -32.03 | 3mH | 0 | 1.10 |
| | 867.80 | 46.69 | 30.56 | 32.74 | 5.02 | 28.79 | 39.53 | 60.82 | -21.29 | 3mH | 90 | 1.10 |

AF/AT=AF+10dB(ATTENUATOR)
Peak: RBW= 100KHz
VBW= 300KHz
A(Average): Pk Reading - 16.126dB

Total Data #12

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FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

No. 165, Chung Sheng Road,
Hsin Tien City, Taipei, Taiwan, R.O.C.
PHONE: 02-2217-0894 FAX: 02-2217-1029

Project #: C30819410
Report #: C30819410-RP
Date & Time: 2003/08/19
Test Engr: JIMMY CHEN

Company: NUTEK CORPORATION
EUT Description: APS99BT3SBCF4 (433.92MHz / CAR ALARM TRANSMITTER)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)
Mode of Operation: Normal Mode

IS ite

$$M\% = ((t1+t2+t3+...)/T) * 100\% = 15.62 \%$$

$$\begin{aligned} \text{Av Reading} &= \text{Pk Reading} + 20 * \log(M\%) \\ 20 * \log(M\%) &= -16.126 \end{aligned}$$

| | Freq. (MHz) | Pk Rdg (dBuV) | Av Rdg (dBuV) | AF/AT (dB) | Closs (dB) | Pre-amp (dB) | Level (dBuV/m) | Limit FCC_B | Margin (dB) | Pol (H/V) | Az (Deg) | Height (Meter) |
|---|----------------|------------------|------------------|---------------|---------------|-----------------|-------------------|----------------|----------------|--------------|-------------|-------------------|
| | Button #2: | | | | | | | | | | | |
| X | 433.89 | 60.95 | 44.82 | 27.12 | 3.28 | 29.68 | 45.54 | 80.82 | -35.28 | 3mV | 180 | 1.00 |
| | 867.80 | 47.17 | 31.04 | 32.74 | 5.02 | 28.79 | 40.01 | 60.82 | -20.81 | 3mV | 90 | 1.00 |
| Y | 433.90 | 78.01 | 61.88 | 27.12 | 3.28 | 29.68 | 62.60 | 80.82 | -18.22 | 3mV | 270 | 1.10 |
| | 867.80 | 51.17 | 35.04 | 32.74 | 5.02 | 28.79 | 44.01 | 60.82 | -16.81 | 3mV | 270 | 1.30 |
| Z | 433.90 | 79.04 | 62.91 | 27.12 | 3.28 | 29.68 | 63.63 | 80.82 | -17.19 | 3mV | 0 | 1.50 |
| | 867.81 | 52.84 | 36.71 | 32.74 | 5.02 | 28.79 | 45.68 | 60.82 | -15.14 | 3mV | 180 | 1.10 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| X | 433.90 | 77.34 | 61.21 | 27.12 | 3.28 | 29.68 | 61.93 | 80.82 | -18.89 | 3mH | 180 | 1.10 |
| | 867.79 | 52.01 | 35.88 | 32.74 | 5.02 | 28.79 | 44.85 | 60.82 | -15.97 | 3mH | 90 | 1.30 |
| Y | 433.90 | 68.99 | 52.86 | 27.12 | 3.28 | 29.68 | 53.58 | 80.82 | -27.24 | 3mH | 90 | 1.00 |
| | 867.80 | 53.19 | 37.06 | 32.74 | 5.02 | 28.79 | 46.03 | 60.82 | -14.79 | 3mH | 180 | 1.50 |
| Z | 433.90 | 65.88 | 49.75 | 27.12 | 3.28 | 29.68 | 50.47 | 80.82 | -30.35 | 3mH | 0 | 1.10 |
| | 867.80 | 50.52 | 34.39 | 32.74 | 5.02 | 28.79 | 43.36 | 60.82 | -17.46 | 3mH | 270 | 1.50 |

AF/AT=AF+10dB(ATTENUATOR)
Peak: RBW= 100KHz
VBW= 300KHz
A(Average): Pk Reading - 16.126dB

Total Data #12

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$$M\% = ((t1+t2+t3+\dots)/T) * 100\% = 15.62 \%$$

$$\begin{aligned} \text{Av Reading} &= \text{Pk Reading} + 20 * \log(M\%) \\ 20 * \log(M\%) &= -16.126 \end{aligned}$$

| | Freq. (MHz) | Pk Rdg (dBuV) | Av Rdg (dBuV) | AF/AT (dB) | Closs (dB) | Pre-amp (dB) | Level (dBuV/m) | Limit FCC_B | Margin (dB) | Pol (H/V) | Az (Deg) | Height (Meter) |
|---|----------------|------------------|------------------|---------------|---------------|-----------------|-------------------|----------------|----------------|--------------|-------------|-------------------|
| | Button #3: | | | | | | | | | | | |
| X | 433.90 | 62.15 | 46.02 | 27.12 | 3.28 | 29.68 | 46.74 | 80.82 | -34.08 | 3mV | 270 | 1.10 |
| | 867.81 | 38.93 | 22.80 | 32.74 | 5.02 | 28.79 | 31.77 | 60.82 | -29.05 | 3mV | 90 | 1.00 |
| Y | 433.90 | 77.25 | 61.12 | 27.12 | 3.28 | 29.68 | 61.84 | 80.82 | -18.98 | 3mV | 270 | 1.10 |
| | 867.81 | 48.03 | 31.90 | 32.74 | 5.02 | 28.79 | 40.87 | 60.82 | -19.95 | 3mV | 180 | 1.10 |
| Z | 433.90 | 79.35 | 63.22 | 27.12 | 3.28 | 29.68 | 63.94 | 80.82 | -16.88 | 3mV | 0 | 1.20 |
| | 867.80 | 51.46 | 35.33 | 32.74 | 5.02 | 28.79 | 44.30 | 60.82 | -16.52 | 3mV | 90 | 1.10 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| X | 433.90 | 76.64 | 60.51 | 27.12 | 3.28 | 29.68 | 61.23 | 80.82 | -19.59 | 3mH | 270 | 1.10 |
| | 867.79 | 48.42 | 32.29 | 32.74 | 5.02 | 28.79 | 41.26 | 60.82 | -19.56 | 3mH | 90 | 1.10 |
| Y | 433.90 | 77.25 | 61.12 | 27.12 | 3.28 | 29.68 | 61.84 | 80.82 | -18.98 | 3mH | 90 | 1.00 |
| | 867.81 | 50.05 | 33.92 | 32.74 | 5.02 | 28.79 | 42.89 | 60.82 | -17.93 | 3mH | 270 | 1.30 |
| Z | 433.90 | 69.72 | 53.59 | 27.12 | 3.28 | 29.68 | 54.31 | 80.82 | -26.51 | 3mH | 0 | 1.20 |
| | 867.80 | 49.40 | 33.27 | 32.74 | 5.02 | 28.79 | 42.24 | 60.82 | -18.58 | 3mH | 360 | 1.10 |

AF/AT=AF+10dB(ATTENUATOR)
 Peak: RBW= 100KHz
 VBW= 300KHz
 A(Average): Pk Reading - 16.126dB

Total Data #12

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FCC, VCCI, CISPR, CE, AUSTEL, NZ
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Mode of Operation: Normal Mode

IS ite

| Freq. | Pk Rdg | Av Rdg | AF | Closs | Pre-amp | Level | Limit | Margin | Pol | Az | Height | Mark |
|-------|--------|--------|-------|-------|---------|----------|-------|--------|-------|-------|---------|---------|
| (MHz) | (dBuV) | (dBuV) | (dB) | (dB) | (dB) | (dBuV/m) | FCC_B | (dB) | (H/V) | (Deg) | (Meter) | (P/Q/A) |
| 1302 | 57.20 | 41.07 | 25.19 | 4.75 | 32.04 | 38.97 | 54.00 | -15.03 | 3mV | 90 | 1.0 | A |
| 1736 | 45.40 | 29.27 | 26.43 | 5.58 | 32.76 | 28.52 | 60.82 | -32.30 | 3mV | 270 | 1.1 | A |
| 2170 | 44.20 | 28.07 | 27.76 | 6.25 | 33.15 | 28.93 | 60.82 | -31.89 | 3mV | 180 | 1.3 | A |
| 1302 | 49.30 | 33.17 | 25.19 | 4.75 | 32.04 | 31.07 | 54.00 | -22.93 | 3mH | 90 | 1.3 | A |
| 1736 | 44.50 | 28.37 | 26.43 | 5.58 | 32.76 | 27.62 | 60.82 | -33.20 | 3mH | 0 | 1.5 | A |
| 2170 | 44.40 | 28.27 | 27.76 | 6.25 | 33.15 | 29.13 | 60.82 | -31.69 | 3mH | 180 | 1.1 | A |

* No other emission were found within 20dB under the limits upto 4.5 GHz.

Total data #6
V.2d

P(Peak): RBW=VBW=1MHz
A(Average): Pk Reading -16.126dB