



**FCC 47 CFR PART 15 SUBPART B**

**TEST REPORT**

**For**

**PS/2 Pocket Point RF Receiver**

**Model: PPRF**

**Trade Name: VISION**

Issued for

**Vision Automobile Electronics Industrial Co., Ltd.**

**No. 17, Alley 92, Lane 189, Sec. 1, An Chung Rd.,**

**Tainan, Taiwan, R.O.C.**

Issued by

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# 1 TEST RESULT CERTIFICATION

**Applicant:** **Vision Automobile Electronics Industrial Co., Ltd.**  
No. 17, Alley 92, Lane 189, Sec. 1, An Chung Rd.,  
Tainan, Taiwan, R.O.C.

**Manufacturer:** **Vision Automobile Electronics Industrial Co., Ltd.**  
No. 17, Alley 92, Lane 189, Sec. 1, An Chung Rd.,  
Tainan, Taiwan, R.O.C.

**Equipment Under Test:** PS/2 Pocket Point RF Receiver

**Trade Name:** VISION

**Model:** PPRF

**Detailed EUT Description:** See Item 2 of this report

**Date of Test:** July 15, 2004 & August 2, 2004

Applicable Standard	Class / Limit	Test Result
FCC Part 15 Subpart B	Class B	No non-compliance noted
<b>Deviation from Applicable Standard</b>		
None		

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, Subpart B and the measurement procedures were according to ANSI C63.4. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

**Approved by:**

**Reviewed by:**

David Wang  
Manager of Hsintien Laboratory  
Compliance Certification Services Inc.

Vince Chiang  
Section Manager of Hsintien Laboratory  
Compliance Certification Services Inc.



## 2 EUT DESCRIPTION

<b>Product</b>	PS/2 Pocket Point RF Receiver
<b>Trade Name</b>	VISION
<b>Model</b>	PPRF
<b>Housing Type</b>	Plastic
<b>EUT Power Rating</b>	DC 5V from Host PC
<b>AC Power During Test</b>	120VAC / 60Hz to Host PC
<b>Power Supply Manufacturer</b>	COMPAQ
<b>Power Supply Model Number</b>	DPS-250RB A
<b>AC Power Cord Type</b>	Unshielded, 1.8m (Detachable)
<b>OSC/Clock Frequency</b>	6MHz; 13.225MHz
<b>Receiver Frequency</b>	433.92 MHz
<b>Number of Channels</b>	1 Channel
<b>Operating Mode</b>	Point-to-Point
<b>Antenna Type</b>	Internal loop, which is built in EUT
<b>EUT I/O Cable Type</b>	PS/2: Shielded, 1.4m (Detachable) USB: Shielded, 1.4m (Detachable)

*Note: The product is a composite system includes Transmitter and Receiver. This submittal(s) (test report) is intended for FCC ID: KFR-LSRRS filing to comply with FCC Part 15 Subpart B Rules. The composite system (Transmitter) is intended for FCC ID: KFR-LSRST is compliance with FCC Part 15 Subpart C Rules.*

### I/O PORT OF EUT

I/O Port Type	Q'TY	TESTED WITH
1). PS/2 Port	1	1
2). USB Port	1	1

*Note: Client consigns only one model sample (Model Number is PPRF) to test.*



### 3 TEST METHODOLOGY

#### 3.1 EUT SYSTEM OPERATION

1. Windows XP boots system.
2. Select a PowerPoint file in EUT to execute and page up or down by remote controller.
3. Run Emctest.exe to activate all peripherals and display “H” pattern on monitor screen.

*Note: Test program is self-repeating throughout the test.*

#### 3.2 DECISION OF FINAL TEST MODE

1. The following test mode(s) were scanned during the preliminary test:

**Conduction:**

1. **USB Mode**
2. **PS/2 Mode**

**Radiation:**

1. **USB Mode**
2. **PS/2 Mode**

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

**Conduction:** Mode 1

**Radiation:** Mode 1

Then, the EUT configuration and cable configuration of the above highest emission mode was recorded for all final test items.



## 4 SETUP OF EQUIPMENT UNDER TEST

### Setup Diagram

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

### Support Equipment

No	Device Type	Model	Serial No.	FCC ID/ BSMI ID	Brand	Data Cable	Power Cord
1	PS/2 Mouse	M-S34	LNA12301809	BSMI ID: 4862A011	Logitech	Shielded, 1.8m	N/A
2	PS/2 Keyboard	6311-TW4C16	N/A	BSMI ID: 4862A064	ACER	Shielded, 1.8m	N/A
3	Printer	C60	N/A	BSMI ID: 3902E006	EPSON	Shielded, 1.8m	Unshielded, 1.8m
4	Monitor	171T	GH17H4LT702617D	BSMI ID: 3902B332	SAMSUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
5	Host PC	P Evo D510C	N/A	BSMI ID: 3912Q007	COMPAQ	Shielded, 1.4m	Unshielded, 1.8m
6	Modem	1414	0304012277	IFAXDM1414	ACEEX	Shielded, 0.9m	Unshielded, 1.8m

*Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.*

*Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.*



## 5 FACILITIES AND ACCREDITATIONS







### 5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at CCS Taiwan Hsintien Lab at No. 165, Chungshen Road, Hsintien City, Taipei Hsien, Taiwan.

The measurement facilities are constructed in conformance with the requirements of CISPR 16-1, ANSI C63.4 and other equivalent standards.

### 5.2 LABORATORY ACCREDITATIONS AND LISTINGS

The test facilities used to perform Electromagnetic compatibility tests are registered or accredited by the organizations listed in the following table which includes the recognized scope specifically.

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	CFR 47, FCC Part 15/18 using ANSI 63.4; AS/NZS 3548; VCCI V3; CNS 13438; CNS 13439; CNS 13783; CNS 14115; CISPR 11/EN 55011; CISPR 14-1/EN 55014-1; CISPR 15/EN 55015; CISPR 22/EN 55022; EN 50081-1/EN 61000-6-3; EN 50082-1/EN 61000-6-4; IEC/EN 61000-4-2, IEC/EN 61000-4-3, IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6, IEC/EN 61000-4-8, IEC/EN 61000-4-11, IEC/EN 61000-3-2, IEC/EN 61000-3-3; CISPR 24/EN 55024; CISPR 14-2/EN 55014-2; EN 50081-2/EN 61000-6-1; EN 50082-2/EN 61000-6-2.	 824.01
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	 250366
Japan	VCCI	3/10 meter Open Area Test Sites and Line Conducted Test Room to perform conducted/radiated measurements	 R-1434/1630~4 C-1511/1882
Norway	NEMKO	EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2/3/4, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, Cispr 16-1/2/3/4	 ELA 103
Taiwan	CNLA	47 CFR FCC Part 15 Subpart B, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 13438, AS/NZS 3548, VCCI, CNS 13022-1/2/3, EN 55022, EN 55013, EN 55014-1, EN 61000-4-2/3/4/5/6/8/11, ENV 50204, ENV 50141, ENV 50142	 1108 ILAC MRA
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439	 SL2-IN-E-0005 SL2-A1-E-0005 SL2-R1-E-0005 SL2-R2-E-0005

*Note: No part of this report may be used to claim or imply product endorsement by CNLA, A2LA or other government agency.*



## 6 INSTRUMENT AND CALIBRATION

### 6.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

### 6.2 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and other equivalent standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective manual.

#### Equipment Used for Emission Measurement

Open Area Test Site # E				
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE
SITE NSA	CCS	E Site	N/A	09/13/2004
EMI TEST RECEIVER	R&S	DSAI-D / ESBI-RF	827832/001 82706/003	03/08/2005
ANTENNA	SCHAFFNER	CBL 6112B	2802	09/27/2004
AMPLIFIER	H.P.	8447D A	2727A05764	04/30/2005
CABLE	BELDEN	9913	N-TYPE#E2&E3	03/05/2005
THERMO-HYGRO METER	TFA	N/A	NO.6	11/23/2004

**Note:** The measurement uncertainty is less than +/- 3.36dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

Conducted Emission Test Site # A				
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE
TEST RECEIVER	R&S	ESHS20	840455/006	03/07/2005
LISN (EUT)	SCHWARZBECK	NSLK 8127	8127382	01/05/2005
LISN	SOLAR	8012-50-R-24-BNC	8305114	02/10/2005
BNC CABLE	MIYAZAKI	5D-FB	BNC A1	01/30/2005

**Note:** The measurement uncertainty is less than +/- 2.83dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.





## 7 LINE CONDUCTED & RADIATED EMISSION TEST

### 7.1 LIMIT

#### Maximum permissible level of Line Conducted Emission

FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

**Note:** The lower limit shall apply at the transition frequency.

#### Maximum permissible level of Radiated Emission measured at 3 meter

FREQUENCY (MHz)	Class B (dBuV/m)
	Peak
30-88	40
88-216	43.5
216-960	46
Above 960	54

**Note:** The lower limit shall apply at the transition frequency.



## 7.2 TEST PROCEDURE OF LINE CONDUCTED EMISSION

### Procedure of Preliminary Test

- The EUT was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test system with EUT received AC power, 120V/60Hz, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All support equipment received power from a second LISN.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a EMI Test Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to the Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Receiver.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.2 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.2 producing the highest emission level.
- The EUT configuration and cable configuration of the above highest emission level were recorded for reference of the final test.

**Procedure of Final Test**

- EUT and support equipment were set up on the test bench as per step 10 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the AV. limit in Q.P. mode, then the emission signal was re-checked using an AV. detector.
- The test data of the worst-case condition(s) was recorded.

**Data Sample:**

Freq. MHz	Read Level dBuV	Factor dB	Level dBuV	Limit dBuV	Over Limit dB	Reading Type (P/Q/A)	Line (L1/L2)
x.xx	42.95	0.55	43.50	56	-12.50	Q	L1

- Freq. = Emission frequency in MHz  
 Read Level = Uncorrected Analyzer/Receiver reading  
 Factor = Insertion loss of LISN + Cable Loss  
 Level = Read Level + Factor  
 Limit = Limit stated in standard  
 Over Limit = Reading in reference to limit  
 P = Peak Reading  
 Q = Quasi-peak Reading  
 A = Average Reading  
 L1 = Hot side  
 L2 = Neutral side

**Calculation Formula**

Over Limit (dB) = Level (dBuV) – Limit (dBuV)



## **7.3 TEST PROCEDURE OF RADIATED EMISSION**

### **Procedure of Preliminary Test**

- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC power source, 120VAC/60Hz, from the outlet socket under the turntable. All support equipment received power from another socket under the turntable.
- The antenna was placed at 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 2000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.2 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.2 producing the highest emission level.
- The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

**Procedure of Final Test**

- EUT and support equipment were set up on the turntable as per step 8 of the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 2000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.
- The test data of the worst case condition(s) was recorded.

**Data Sample:**

Freq. MHz	Read Level dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Over Limit dB	Reading Type (P/Q/A)	Pol. (H/V)
x.xx	14.0	12.2	26.2	40	-13.8	Q	H

Freq. = Emission frequency in MHz

Read Level = Uncorrected Analyzer/Receiver reading

Factor = Antenna Factor + Cable Loss + Attenuator (3/6/10dB) – Amplifier Gain

Level = Read Level + Factor

Limit = Limit stated in standard

Over Limit = Reading in reference to limit

P = Peak Reading

Q = Quasi-peak Reading

A = Average Reading

H = Antenna Polarization: Horizontal

V = Antenna Polarization: Vertical

**Calculation Formula**

Over Limit (dB) = Level (dBuV/m) – Limit (dBuV/m)



## 7.4 TEST RESULTS

### Line Conducted Emission

**Model:** PPRF**Test Mode:** Mode 1**Temperature:** 29 °C**Humidity:** 54% RH**Test Results:** Pass**Tested by:** Alex Pan

(The chart below shows the highest readings taken from the final data, see **Appendix II** for details.)

<b>Six Highest Conducted Emission Readings</b>							
<b>Frequency Range Investigated</b>				<b>150 kHz to 30 MHz</b>			
<b>Freq (MHz)</b>	<b>Read Level (dBuV)</b>	<b>Factor (dB)</b>	<b>Level (dBuV)</b>	<b>Limit Line (dBuV)</b>	<b>Over Limit (dB)</b>	<b>Reading Type (P/Q/A)</b>	<b>Line (L1/L2)</b>
<b>0.150</b>	<b>41.84</b>	<b>0.11</b>	<b>41.95</b>	<b>66.00</b>	<b>-24.05</b>	<b>P</b>	<b>L1</b>
<b>0.234</b>	<b>36.30</b>	<b>0.11</b>	<b>36.41</b>	<b>62.30</b>	<b>-25.89</b>	<b>P</b>	<b>L1</b>
<b>0.282</b>	<b>36.16</b>	<b>0.12</b>	<b>36.28</b>	<b>60.76</b>	<b>-24.48</b>	<b>P</b>	<b>L1</b>
<b>0.152</b>	<b>39.47</b>	<b>0.11</b>	<b>39.58</b>	<b>65.91</b>	<b>-26.33</b>	<b>P</b>	<b>L2</b>
<b>0.234</b>	<b>36.64</b>	<b>0.11</b>	<b>36.75</b>	<b>62.30</b>	<b>-25.55</b>	<b>P</b>	<b>L2</b>
<b>0.282</b>	<b>35.90</b>	<b>0.12</b>	<b>36.02</b>	<b>60.76</b>	<b>-24.74</b>	<b>P</b>	<b>L2</b>

*NOTE: The emission level was or more than 2dB below the Average limit, so no re-check anymore.*

**Radiated Emission****Model:** PPRF**Test Mode:** Mode 1**Temperature:** 33°C**Humidity:** 43% RH**Test Results:** Pass**Tested by:** Alex Pan(The chart below shows the highest readings taken from the final data, see **Appendix II** for details.)

<b>Six Highest Radiated Emission Readings</b>							
<b>Frequency Range Investigated</b>				<b>30 MHz to 2000 MHz at 10m</b>			
<b>Freq (MHz)</b>	<b>Read Level (dBuV)</b>	<b>Factor (dB/m)</b>	<b>Level (dBuV/m)</b>	<b>Limit Line (dBuV/m)</b>	<b>Over Limit (dB)</b>	<b>Reading Type (P/Q/A)</b>	<b>Pol. (H/V)</b>
<b>51.278</b>	<b>47.48</b>	<b>-19.40</b>	<b>28.08</b>	<b>40.00</b>	<b>-11.92</b>	<b>P</b>	<b>V</b>
<b>84.256</b>	<b>49.56</b>	<b>-19.56</b>	<b>30.00</b>	<b>40.00</b>	<b>-10.00</b>	<b>P</b>	<b>V</b>
<b>429.856</b>	<b>44.35</b>	<b>-8.09</b>	<b>36.27</b>	<b>46.00</b>	<b>-9.74</b>	<b>P</b>	<b>V</b>
<b>72.197</b>	<b>54.87</b>	<b>-21.24</b>	<b>33.63</b>	<b>40.00</b>	<b>-6.37</b>	<b>P</b>	<b>H</b>
<b>84.267</b>	<b>53.06</b>	<b>-19.56</b>	<b>33.50</b>	<b>40.00</b>	<b>-6.50</b>	<b>P</b>	<b>H</b>
<b>733.222</b>	<b>37.50</b>	<b>-3.46</b>	<b>34.04</b>	<b>46.00</b>	<b>-11.96</b>	<b>P</b>	<b>H</b>

*NOTE: None.*



## APPENDIX I - PHOTOGRAPHS OF TEST SETUP

### LINE CONDUCTED EMISSION TEST







### RADIATED EMISSION TEST





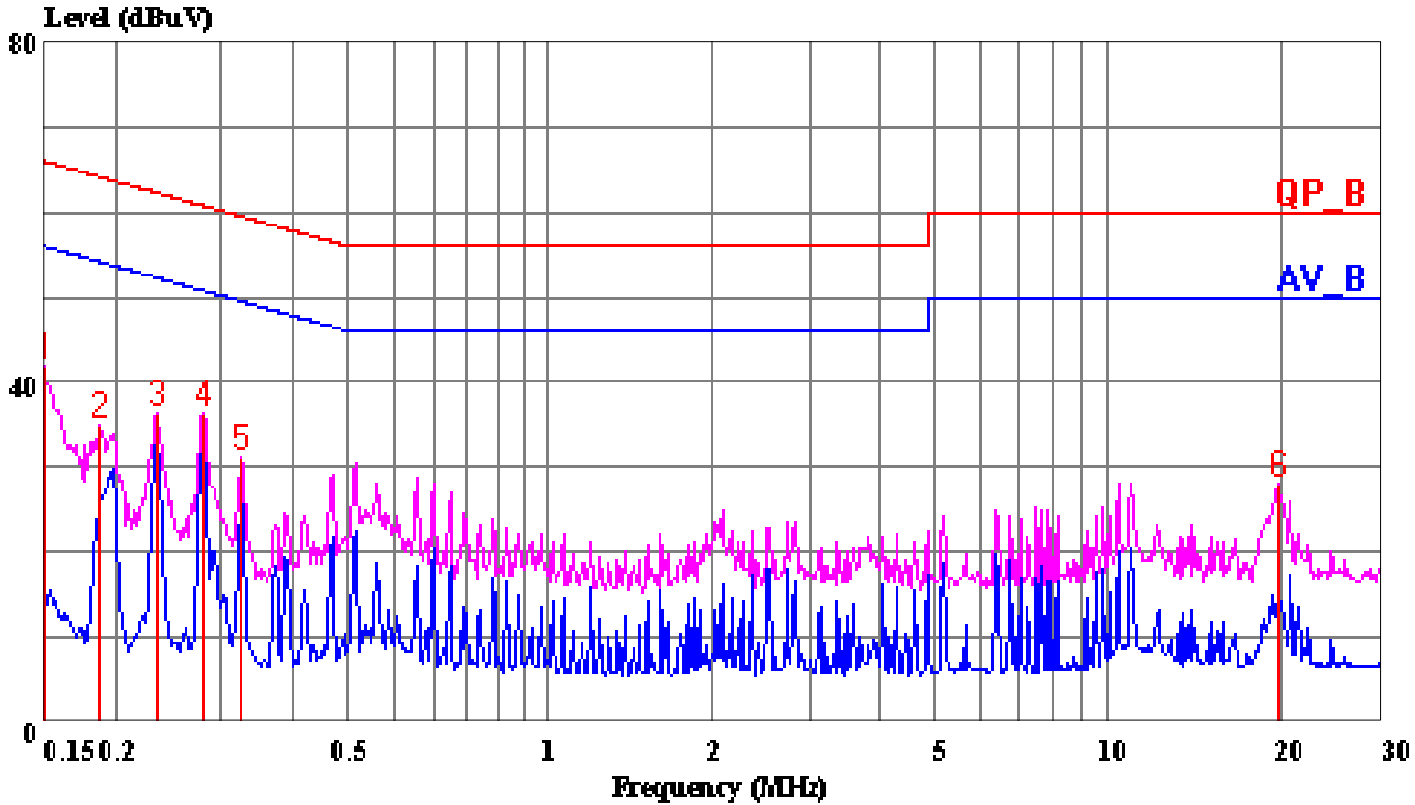
## **APPENDIX II - TEST RESULT OF FINAL DATAS**

### **Conducted Emission Plot**

### **Radiated Emission Data**

Data#: 6 File#: 40707412C.EMI

Date: 2004-07-15 Time: 17:25:01



**(Conduction A)**

Trace: 2 1

Ref Trace:

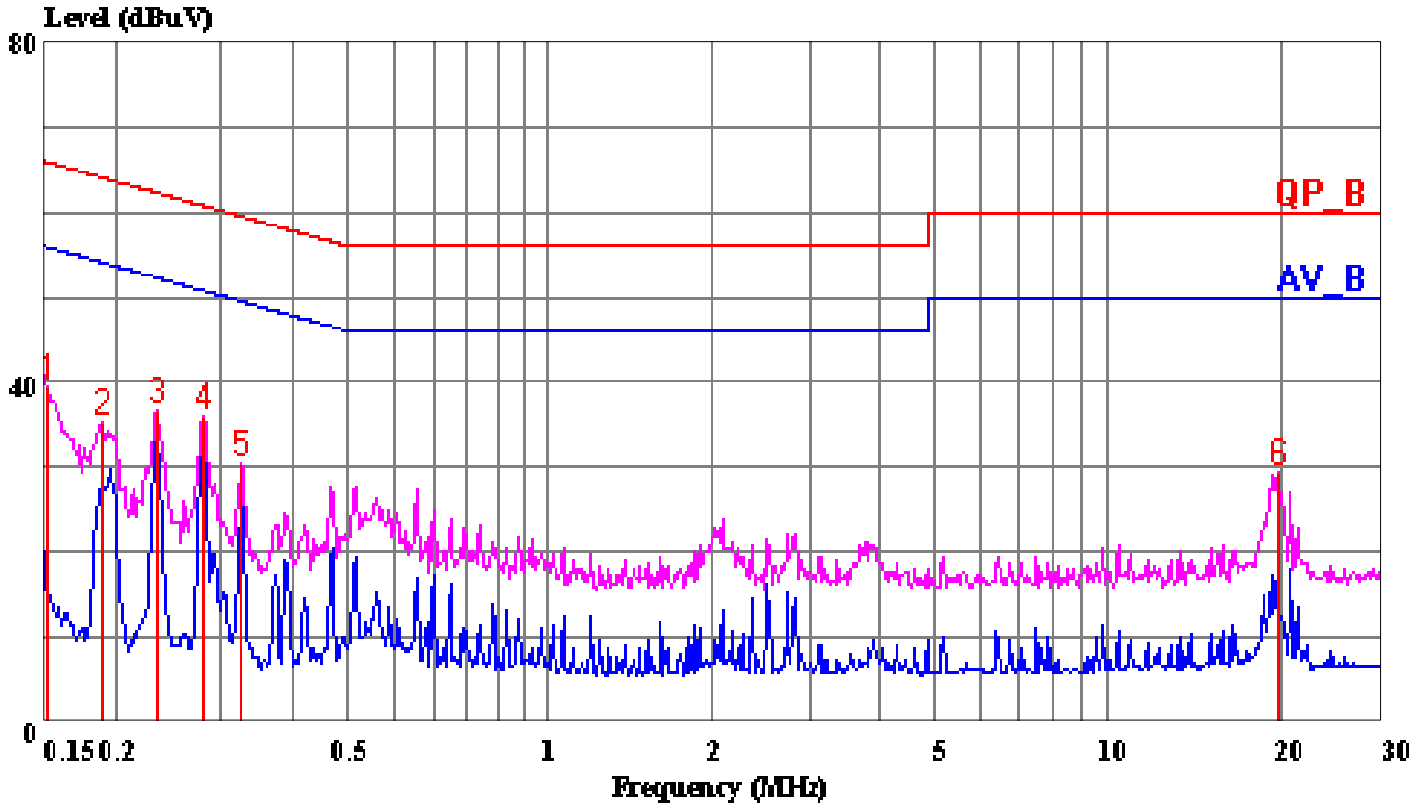
Condition: LINE  
Report No. : 40707412  
Test Engr. : ALEX PAN  
Company : Vision Automobile Electronics Industrial Co., Ltd.  
EUT : PPRF  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS B  
Mode of Op. : USB MODE (WORST)

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	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	41.84	0.11	41.95	66.00	-24.05	Peak
2	0.187	34.86	0.11	34.97	64.15	-29.18	Peak
3	0.234	36.30	0.11	36.41	62.30	-25.89	Peak
4	0.282	36.16	0.12	36.28	60.76	-24.48	Peak
5	0.327	31.12	0.12	31.24	59.53	-28.29	Peak
6	19.845	27.28	0.87	28.15	60.00	-31.85	Peak

Data#: 5 File#: 40707412C.EMI

Date: 2004-07-15 Time: 17:24:40



**(Conduction A)**

Trace: 4 3

Ref Trace:

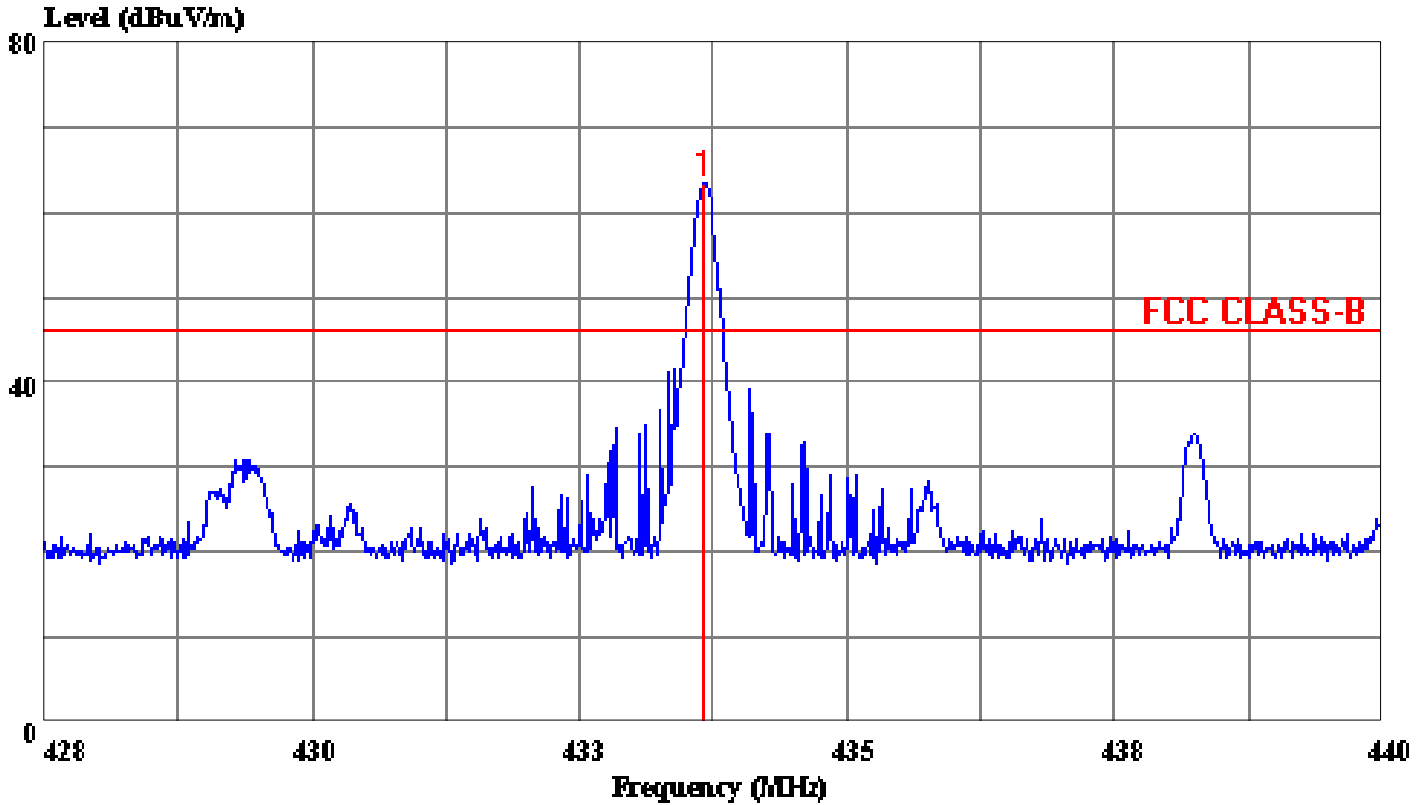
Condition: NEUTRAL  
Report No. : 40707412  
Test Engr. : ALEX PAN  
Company : Vision Automobile Electronics Industrial Co., Ltd.  
EUT : PPRF  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS B  
Mode of Op. : USB MODE (WORST)

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	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.152	39.47	0.11	39.58	65.91	-26.33	Peak
2	0.188	35.10	0.11	35.21	64.11	-28.90	Peak
3	0.234	36.64	0.11	36.75	62.30	-25.55	Peak
4	0.282	35.90	0.12	36.02	60.76	-24.74	Peak
5	0.327	30.20	0.12	30.32	59.53	-29.21	Peak
6	19.845	28.58	0.87	29.45	60.00	-30.55	Peak

Data#: 6 File#: 40707412E.EMI

Date: 2004-08-02 Time: 11:02:35



**(Compliance E- Site)**

Trace: 5

Ref Trace:

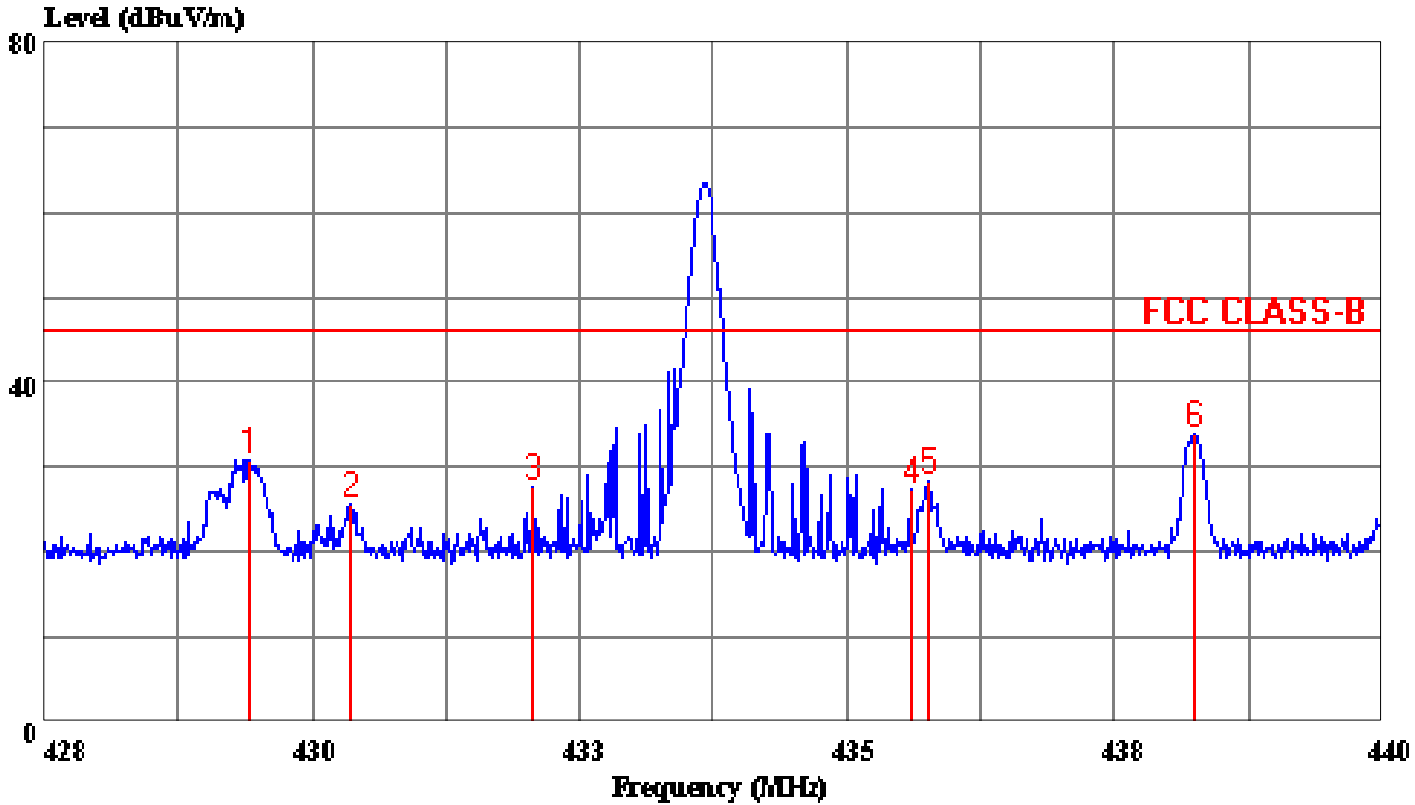
Condition: VERTICAL / 3m  
Report No. : 40707412  
Test Engr. : ALEX PAN  
Company : Vision Automobile Electronics Industrial Co., Ltd.  
EUT : PPRF  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS B  
Mode of Op. : RX MODE

Page: 1

	Read
Freq	Level
MHz	dBuV
1 *	433.916 71.52

Data#: 18 File#: 40707412E.EMI

Date: 2004-08-02 Time: 11:05:55



**(Compliance E- Site)**

Trace: 5

Ref Trace:

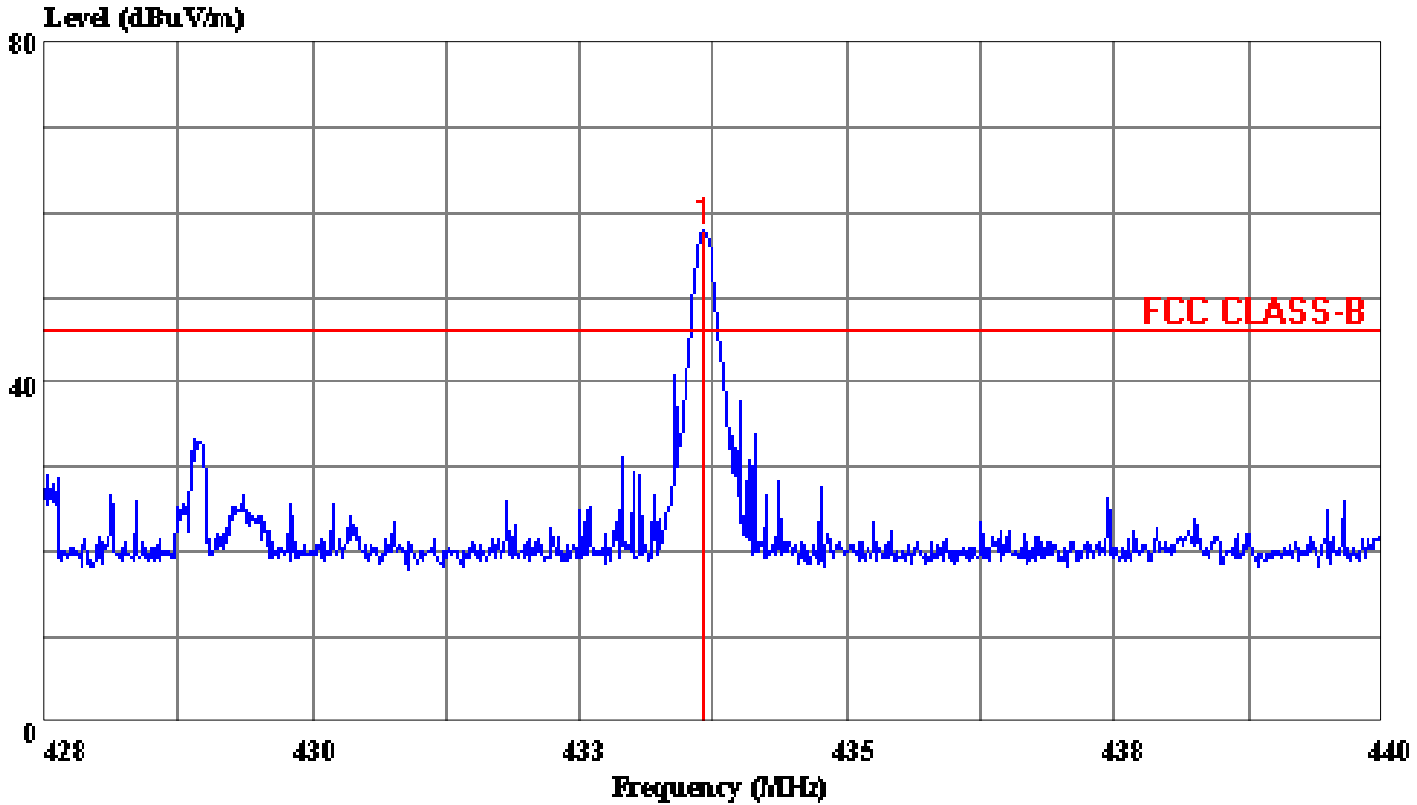
Condition: VERTICAL / 3m  
Report No. : 40707412  
Test Engr. : ALEX PAN  
Company : Vision Automobile Electronics Industrial Co., Ltd.  
EUT : PPRF  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS B  
Mode of Op. : RX MODE

Page: 1

	Read			Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	429.836	39.09	-8.12	30.97	46.00	-15.03 Peak
2	430.748	33.73	-8.14	25.59	46.00	-20.41 Peak
3	432.392	35.87	-8.04	27.82	46.00	-18.18 Peak
4	435.764	35.41	-7.99	27.41	46.00	-18.59 Peak
5	435.920	36.25	-8.00	28.25	46.00	-17.75 Peak
6	438.320	42.04	-7.99	34.05	46.00	-11.95 Peak

Data#: 11 File#: 40707412E.EMI

Date: 2004-08-02 Time: 11:16:32



**(Compliance E- Site)**

Trace: 10

Ref Trace:

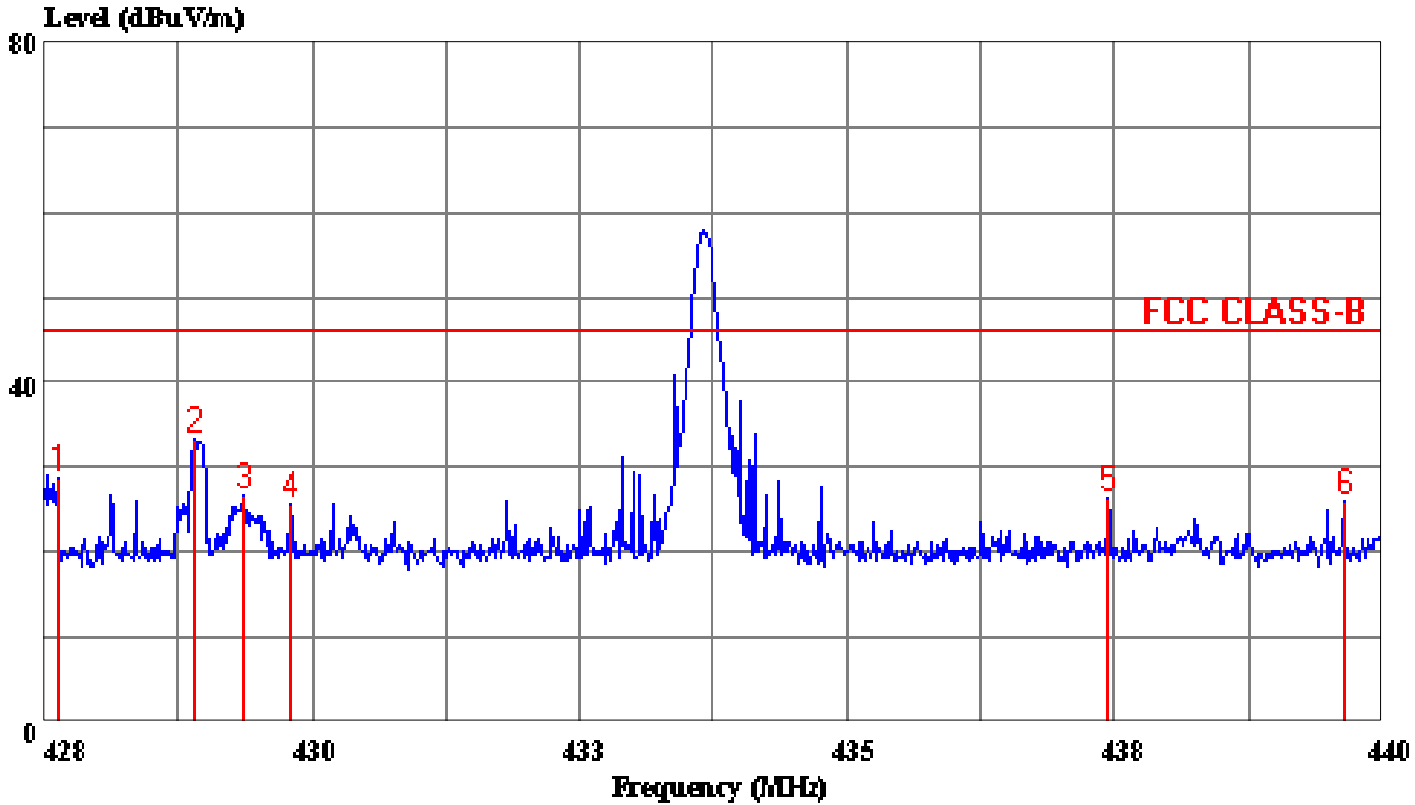
Condition: HORIZONTAL / 3m  
 Report No. : 40707412  
 Test Engr. : ALEX PAN  
 Company : Vision Automobile Electronics Industrial Co., Ltd.  
 EUT : PPRF  
 Test Config : EUT / ALL PERIPHERALS  
 Type of Test: FCC CLASS B  
 Mode of Op. : RX MODE

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	Read
Freq	Level
MHz	dBuV
1 *	433.916 65.88

Data#: 19 File#: 40707412E.EMI

Date: 2004-08-02 Time: 11:17:43



**(Compliance E- Site)**

Trace: 10

Ref Trace:

Condition: HORIZONTAL / 3m  
Report No. : 40707412  
Test Engr. : ALEX PAN  
Company : Vision Automobile Electronics Industrial Co., Ltd.  
EUT : PPRF  
Test Config : EUT / ALL PERIPHERALS  
Type of Test: FCC CLASS B  
Mode of Op. : RX MODE

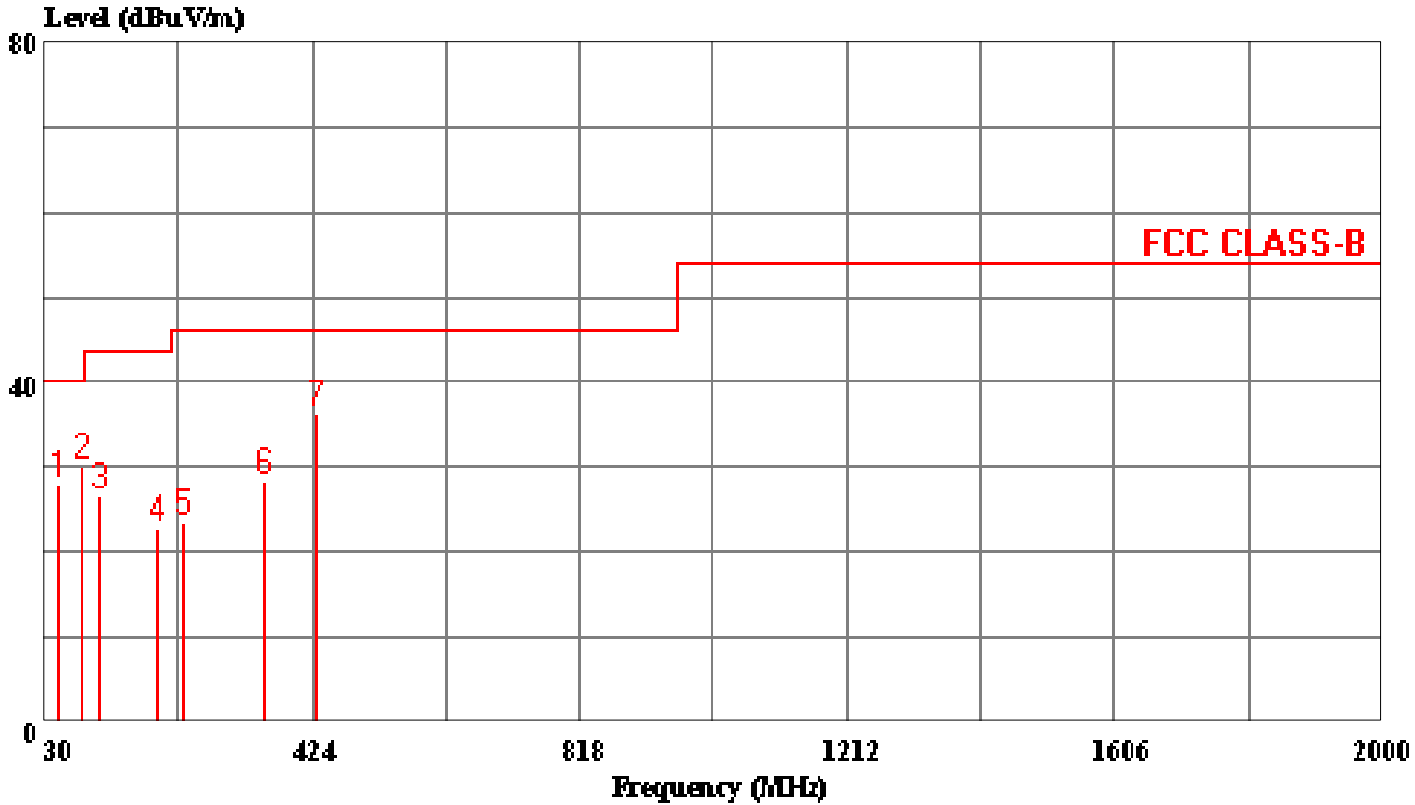
Page: 1

	Read			Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	428.120	36.78	-8.10	28.68	46.00	-17.32 Peak
2	429.356	41.17	-8.09	33.08	46.00	-12.92 Peak
3	429.800	34.85	-8.12	26.73	46.00	-19.27 Peak
4	430.208	33.61	-8.13	25.47	46.00	-20.53 Peak
5	437.540	34.42	-7.99	26.42	46.00	-19.58 Peak
6	439.652	34.09	-7.99	26.10	46.00	-19.90 Peak



Data#: 1 File#: 40707412E.EMI

Date: 2004-07-15 Time: 13:49:19



**(Compliance E- Site)**

Trace:

Ref Trace:

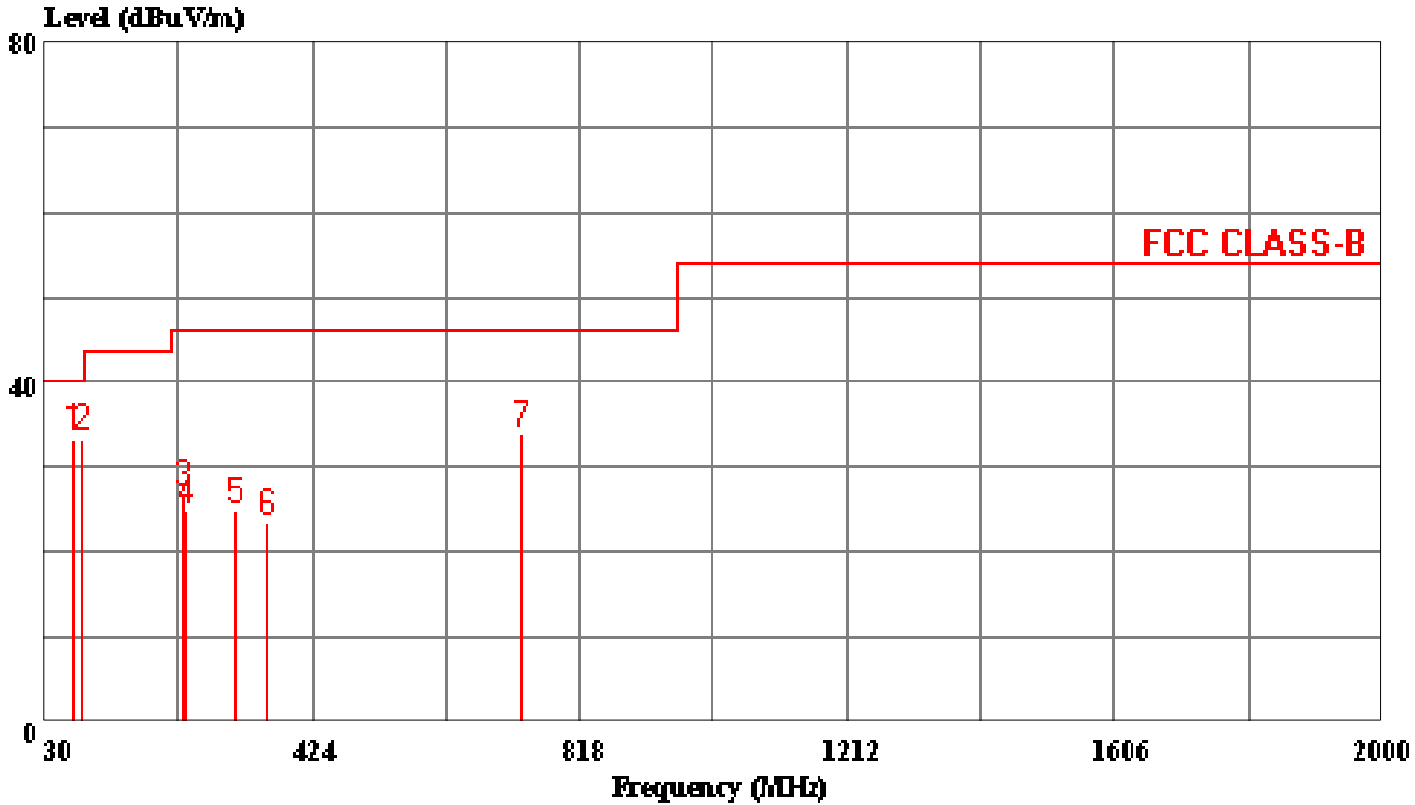
Condition: VERTICAL / 3m  
 Report No. : 40707412  
 Test Engr. : ALEX PAN  
 Company : Vision Automobile Electronics Industrial Co., Ltd.  
 EUT : PPRF  
 Test Config : EUT / ALL PERIPHERALS  
 Type of Test: FCC CLASS B  
 Mode of Op. : USB MODE (WORST)  
 : DATA READING FORM 30MHz TO 2GHz

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	Read	Limit	Over				
Freq	Level	Factor	Level	Line	Limit	Remark	
MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	51.278	47.48	-19.40	28.08	40.00	-11.92	Peak
2	84.256	49.56	-19.56	30.00	40.00	-10.00	Peak
3	109.600	42.04	-15.27	26.77	43.50	-16.73	Peak
4	196.622	39.02	-16.08	22.94	43.50	-20.56	Peak
5	232.844	37.24	-13.68	23.56	46.00	-22.44	Peak
6	352.111	38.26	-9.79	28.47	46.00	-17.53	Peak
7	429.856	44.35	-8.09	36.27	46.00	-9.74	Peak

Data#: 2 File#: 40707412E.EMI

Date: 2004-07-15 Time: 14:11:50



**(Compliance E- Site)**

Trace:

Ref Trace:

Condition: HORIZONTAL / 3m  
 Report No. : 40707412  
 Test Engr. : ALEX PAN  
 Company : Vision Automobile Electronics Industrial Co., Ltd.  
 EUT : PPRF  
 Test Config : EUT / ALL PERIPHERALS  
 Type of Test: FCC CLASS B  
 Mode of Op. : USB MODE (WORST)  
 : DATA READING FORM 30MHz TO 2GHz

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	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	72.197	54.87	-21.24	33.63	40.00	-6.37	Peak
2	84.267	53.06	-19.56	33.50	40.00	-6.50	Peak
3	233.522	40.85	-13.68	27.17	46.00	-18.83	Peak
4	240.022	38.28	-13.32	24.96	46.00	-21.04	Peak
5	312.200	35.92	-11.00	24.92	46.00	-21.08	Peak
6	358.311	33.26	-9.68	23.58	46.00	-22.42	Peak
7	733.222	37.50	-3.46	34.04	46.00	-11.96	Peak