

# FCC RADIO TEST REPORT

Applicant's Company	SIRIUS SATELLITE RADIO.
Applicant Address	989 Lenox Drive Suite 212 Lawrenceville, New Jersey 08648
Manufacturer's Company	Wistron NeWeb Corporation
Manufacturer Address	No. 10-1, Li-hsin Road I, Science-Baded Industrial Park, Hsinchu 300, Taiwan, R.O.C.
Product Name	Sportster 5
Brand Name	Sirius
Model Name	SP5TK1
Received Date	Dec. 17, 2009
Final Test Date	Dec. 20, 2009

## 1. General Description of Equipment under Test

Part	Description of Test	Under Limit
3.1	Radiated Emissions	6.44 dB
3.2	Field Strength of Fundamental Emissions	5.24 dB

Note: Due to the frequency shift for PK data equipment, the PK frequency should follow the AV data equipment in section 3.2.

## 2. GENERAL INFORMATION

### 2.1 Table for Carrier Frequencies

Frequency Band	Channel No.	Frequency
88 ~ 108MHz	1	88.1 MHz
	2	88.3 MHz
	:	:
	50	97.9 MHz
	51	98.1 MHz
	52	98.3 MHz
	:	:
	99	107.7 MHz
	100	107.9 MHz

### 2.2 Test Modes

Mode 1: Medium Car (Ford, MONDEO) + SP5TK1

Mode 2: Small Car (Mitsubishi, Lancer ) + SP5TK1

Mode 3: Large Car (Ford, IXION) + SP5TK1

### 2.3 Table for Testing Locations

Test Site No.	Site Category	Location
10CH01-HY	SAC	Hwa Ya

Semi Anechoic Chamber (SAC)

## 2.4 Test Procedure

1. Put the vehicle in the center of turn table and put the **Radio with Van Mount** in the car. The distance between Vehicle edge and Bi-Log antenna is 3 meters (**Need to adjust for different Radial Angel**). Connect DNP, SDP1V1(car dock), iFMCLA, Car antenna and audio adapter.
2. Play SMIQ and to make sure Radio works properly with channel name showing.
3. Tune the FM TX to specified frequency (Refer to Table 1). Set the polarization to vertical.
4. Turn **8 radial angles** and continuously move antenna height from 1m to 4m to record the maximum emission strength, antenna height with frequency range from 30MHz to 1100MHz. **Record the azimuth (specified 8 radials) for each data point**.
5. Change polarization to horizontal and process the step 4 again.
6. Change Radio to other Radio and process the step 3 to 5 again.
7. Change to other 2 vehicles and process the step 3 to 6 again.

## 2.5 Measuring Instruments and Setting

### <Radiated Emissions>

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

### <Field Strength of Fundamental Emissions>

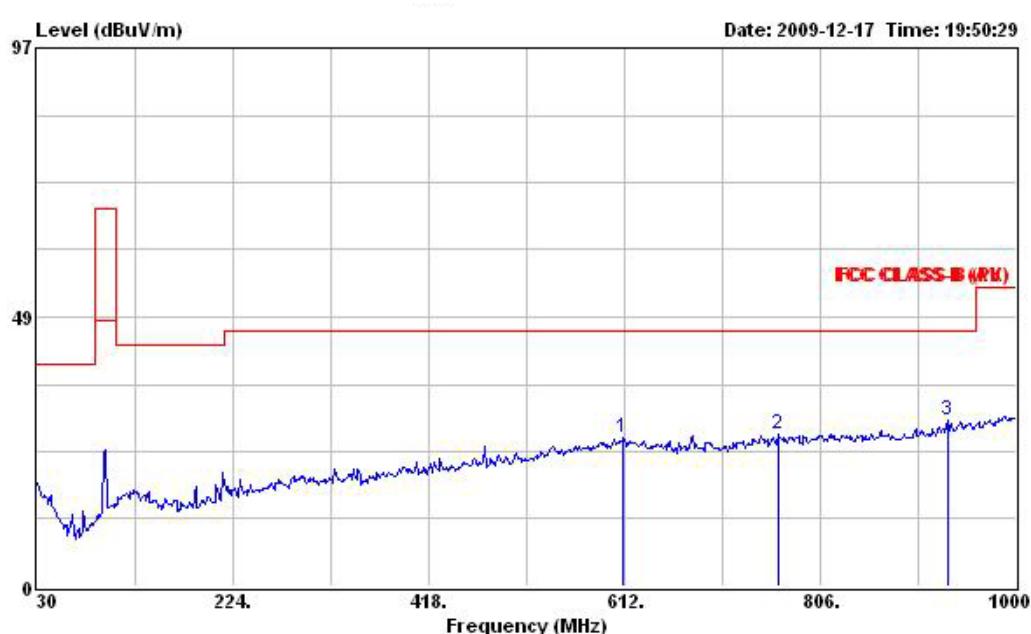
Receiver Parameter	Setting
Attenuation	Auto
Center Frequency	Fundamental Frequency
RB	120 KHz
Detector	Peak / QP / Average

### 3. TEST RESULT

#### 3.1 Results for Radiated Emissions

Temperature	20.3°C	Humidity	57.8%
Configurations	97.9 MHz/ 0° / Mode 1		

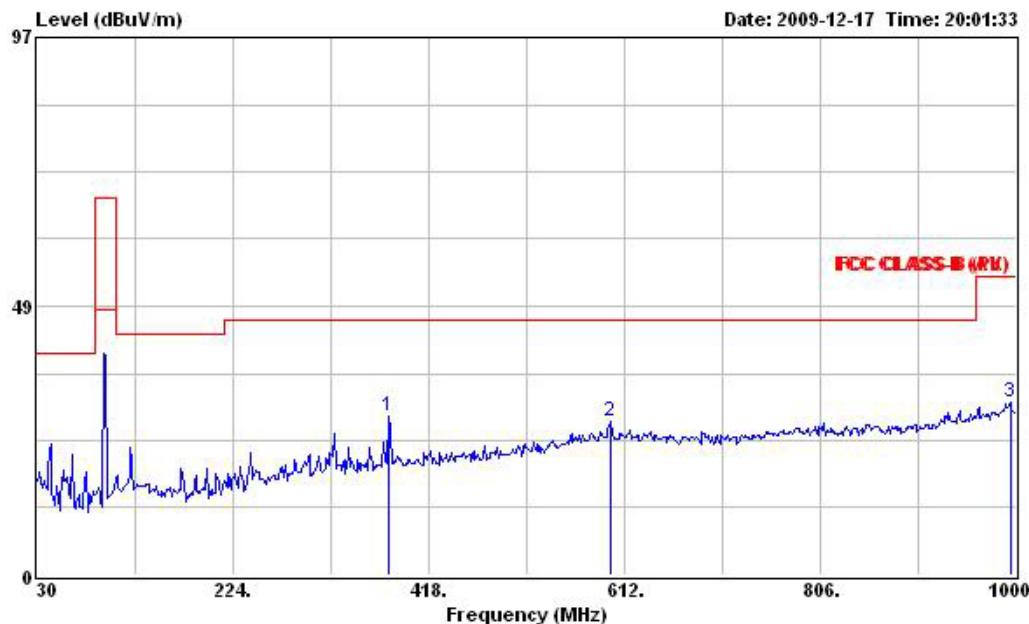
##### Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 0度

Freq	Level	Over Limit	Limit Line	Read Level	Cable Probe			Ant	Table Pos
					Cable Loss	Probe Factor	Preamp Factor		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	cm	deg
1	611.030	26.89	-19.11	46.00	30.07	5.25	19.96	28.39	Peak
2	765.260	27.55	-18.45	46.00	30.26	5.65	19.74	28.10	Peak
3	932.100	29.82	-16.18	46.00	30.52	6.04	20.73	27.47	Peak

## Vertical

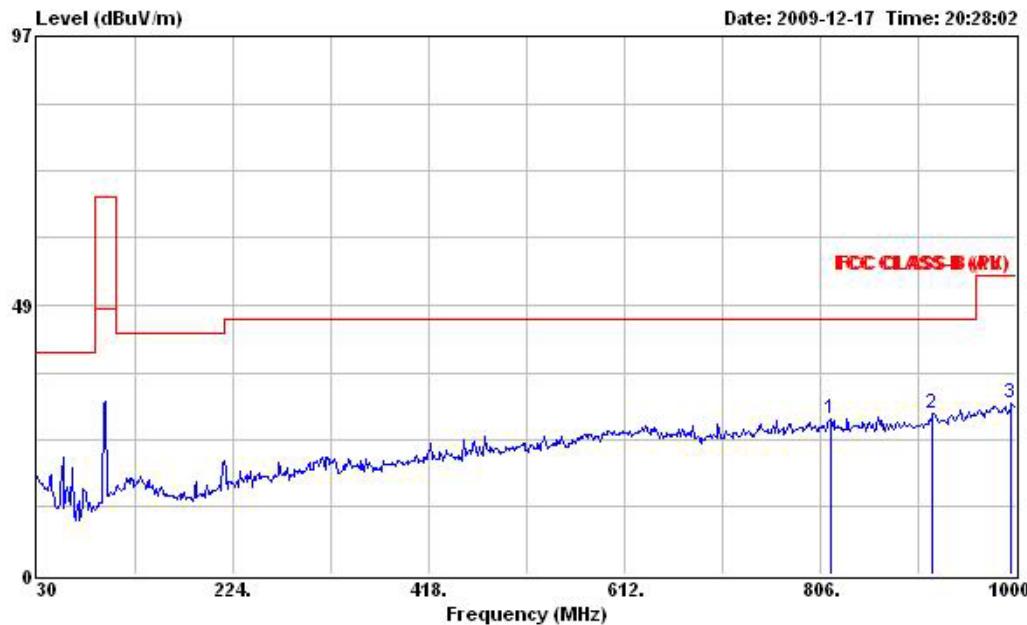


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 0

Freq	Level	Over Limit	Limit	Read Line	Cable	Probe	Preamp	Remark	Ant	Table
									Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	378.230	28.61	-17.39	46.00	37.30	4.16	15.00	27.85 Peak	---	---
2	598.420	27.86	-18.14	46.00	30.98	5.25	20.03	28.40 Peak	---	---
3	994.180	31.14	-22.86	54.00	29.83	6.16	22.37	27.22 Peak	---	---

Note: Emissions measured with the Average detector can be found in a separate section of this report.

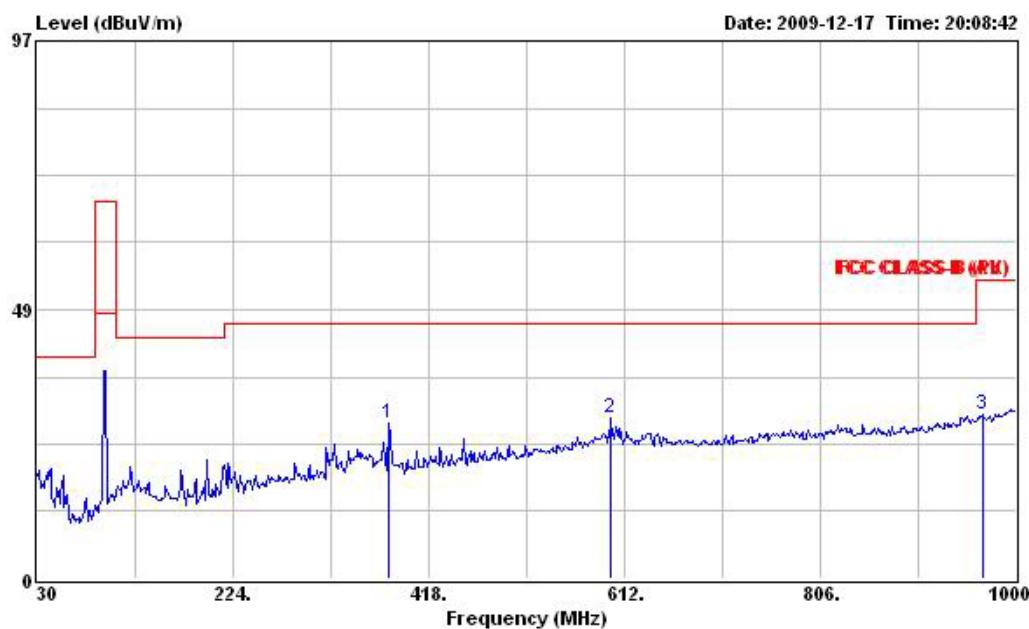
Temperature	20.3°C	Humidity	57.8%
Configurations	97.9 MHz/ 45° / Mode 1		

**Horizontal**

Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 45<sup>deg</sup>

Freq	Level	Over Limit	Limit	Read Line	Cable			Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
					dB	dBuV/m	dBuV					
1	815.700	27.97	-18.03	46.00	30.19	5.60	20.12	27.94	Peak	---	---	---
2	917.550	28.84	-17.16	46.00	29.98	6.05	20.34	27.53	Peak	---	---	---
3	995.150	30.94	-23.06	54.00	29.60	6.17	22.39	27.22	Peak	---	---	---

## Vertical



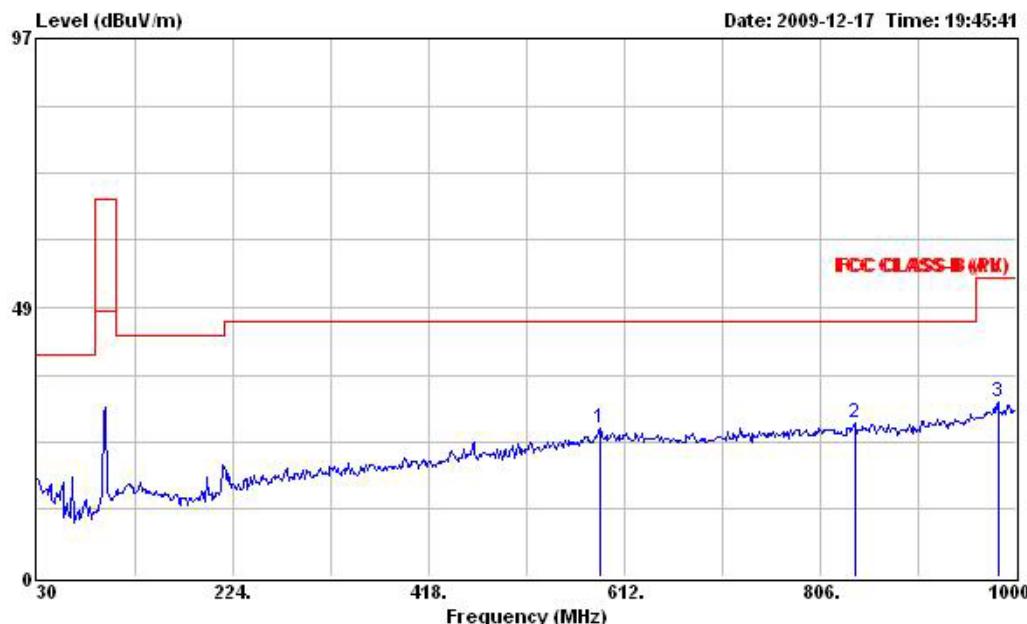
Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 45度

Freq	Level	Over Limit	Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant	Table
									Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1 378.230	27.98	-18.02	46.00	36.67	4.16	15.00	27.85	Peak	---	---
2 598.420	29.03	-16.97	46.00	32.15	5.25	20.03	28.40	Peak	---	---
3 967.020	29.49	-24.51	54.00	29.09	6.08	21.65	27.33	Peak	---	---

Note: Emissions measured with the Average detector can be found in a separate section of this report.

Temperature	20.3°C	Humidity	57.8%
Configurations	97.9 MHz/ 90° / Mode 1		

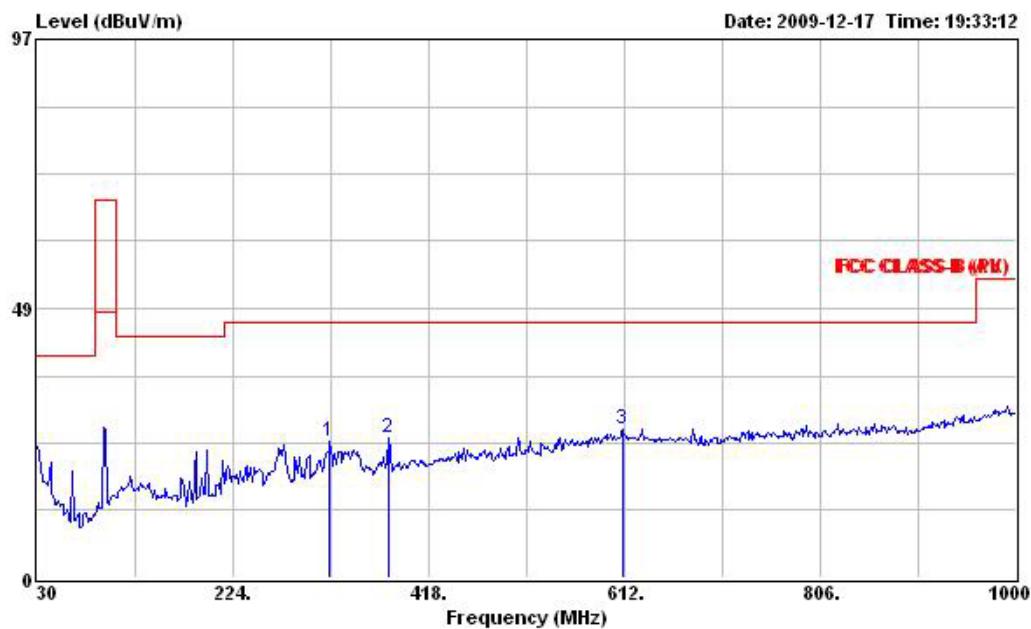
### Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 90度

Freq	Level	Over Limit	Limit	Read Line	Cable			Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
					dB	dBuV/m	dBuV					
1	587.750	26.84	-19.16	46.00	30.30	5.20	19.74	28.40	Peak	---	---	---
2	839.950	27.67	-18.33	46.00	29.66	5.80	20.05	27.84	Peak	---	---	---
3	982.540	31.46	-22.54	54.00	30.54	6.13	22.06	27.27	Peak	---	---	---

## Vertical

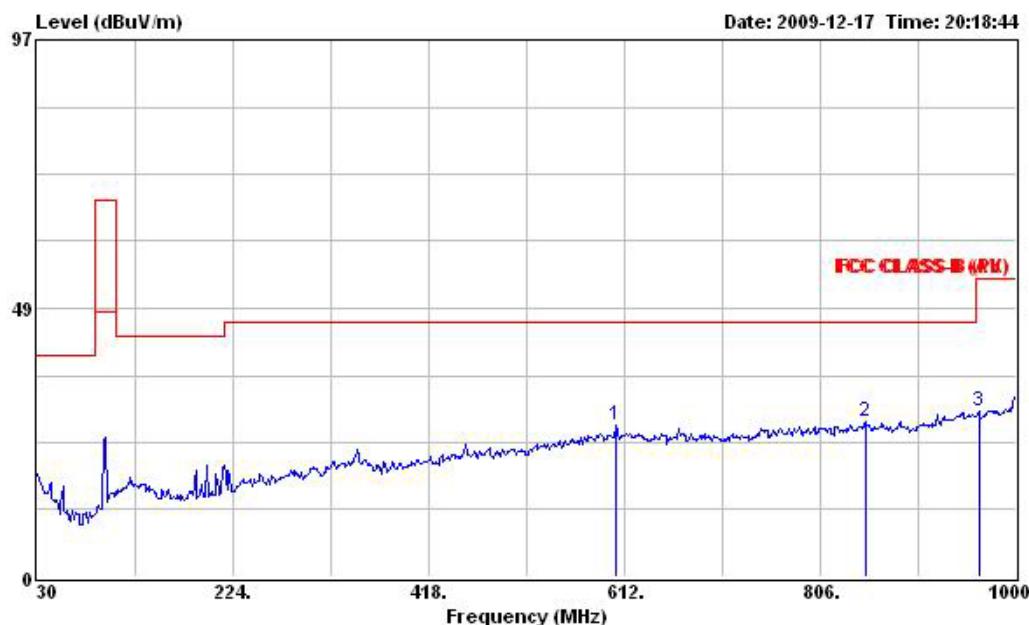


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 90度

Freq	Level	Over Limit	Limit	Read	Cable			Probe	Preamp	Ant	Table
					Line	Level	Loss				
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	dB	cm	deg
1	320.030	24.58	-21.42	46.00	34.00	3.91	14.11	27.44	Peak	---	---
2	378.230	25.14	-20.86	46.00	33.83	4.16	15.00	27.85	Peak	---	---
3	610.060	26.70	-19.30	46.00	29.87	5.25	19.97	28.39	Peak	---	---

Note: Emissions measured with the Average detector can be found in a separate section of this report.

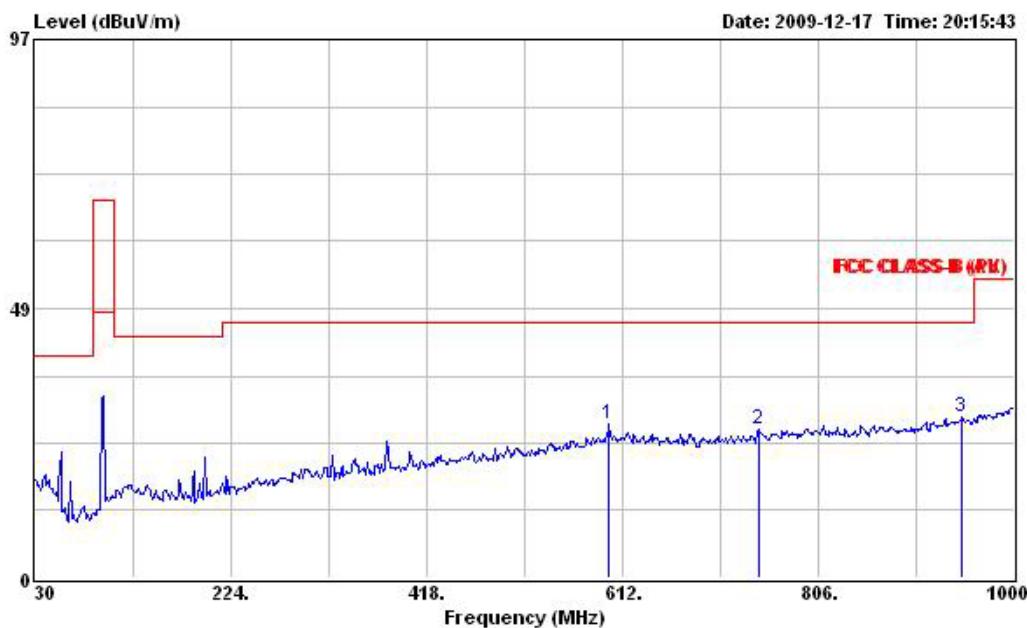
Temperature	20.3°C	Humidity	57.8%
Configurations	97.9 MHz/ 135° / Mode 1		

**Horizontal**

Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 135度

Freq	Level	Over Limit	Limit	Read Line	Cable Probe Preamp			Ant Pos	Table Pos
					dB	dBuV/m	dB		
603.270	27.27	-18.73	46.00	30.36	5.26	20.05	28.40	Peak	---
850.620	28.12	-17.88	46.00	30.01	5.89	20.02	27.80	Peak	---
963.140	29.99	-24.01	54.00	29.73	6.06	21.55	27.35	Peak	---

## Vertical



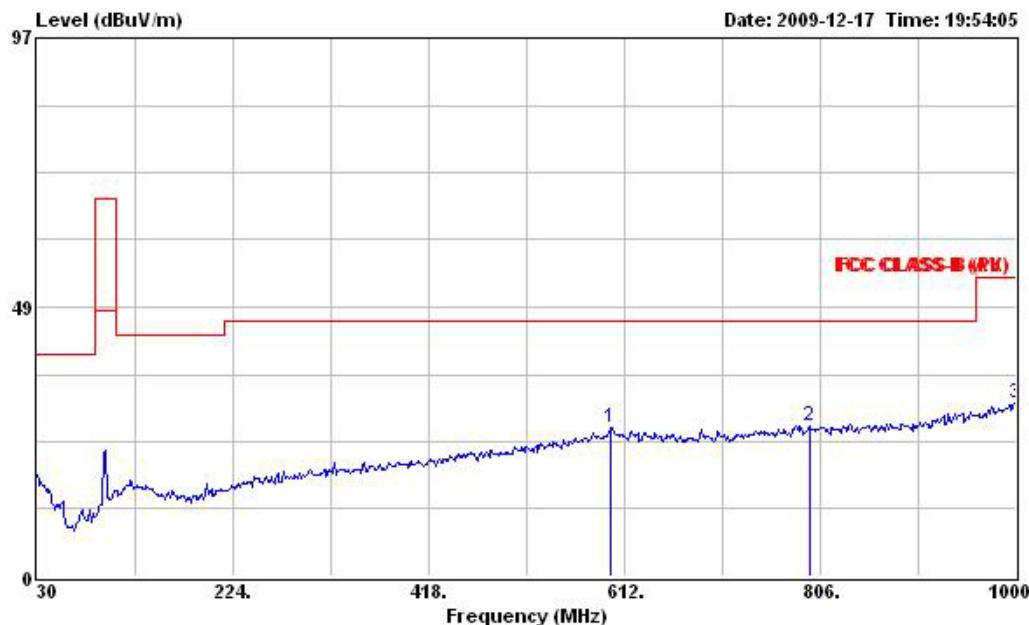
Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 135<sup>deg</sup>

Freq	Level	Over Limit	Limit	Read Line	Cable	Probe	Preamp	Remark	Ant	Table
									Pos	Pos
MHz	dBuV/m		dB	dBuV/m	dBuV	dB	dB	dB	cm	deg
1	598.420	27.87	-18.13	46.00	30.99	5.25	20.03	28.40 Peak	---	---
2	746.830	26.80	-19.20	46.00	29.73	5.72	19.51	28.16 Peak	---	---
3	948.590	29.06	-16.94	46.00	29.28	6.02	21.16	27.40 Peak	---	---

Note: Emissions measured with the Average detector can be found in a separate section of this report.

Temperature	20.3°C	Humidity	57.8%
Configurations	97.9 MHz/ 180° / Mode 1		

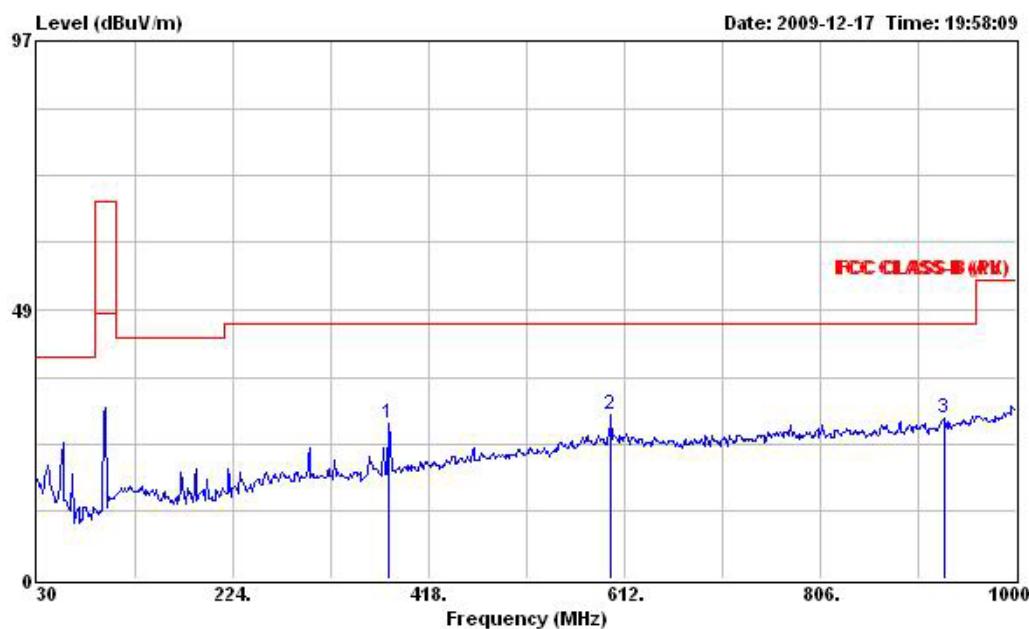
## Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 180度

Freq	Level	Over Limit	Limit	Read Line	Cable			Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
					dB	dBuV/m	dBuV					
1	598.420	26.84	-19.16	46.00	29.96	5.25	20.03	28.40	Peak	---	---	---
2	796.300	27.20	-18.80	46.00	29.59	5.50	20.12	28.01	Peak	---	---	---
3	1000.000	31.25	-22.75	54.00	29.75	6.18	22.52	27.20	Peak	---	---	---

## Vertical

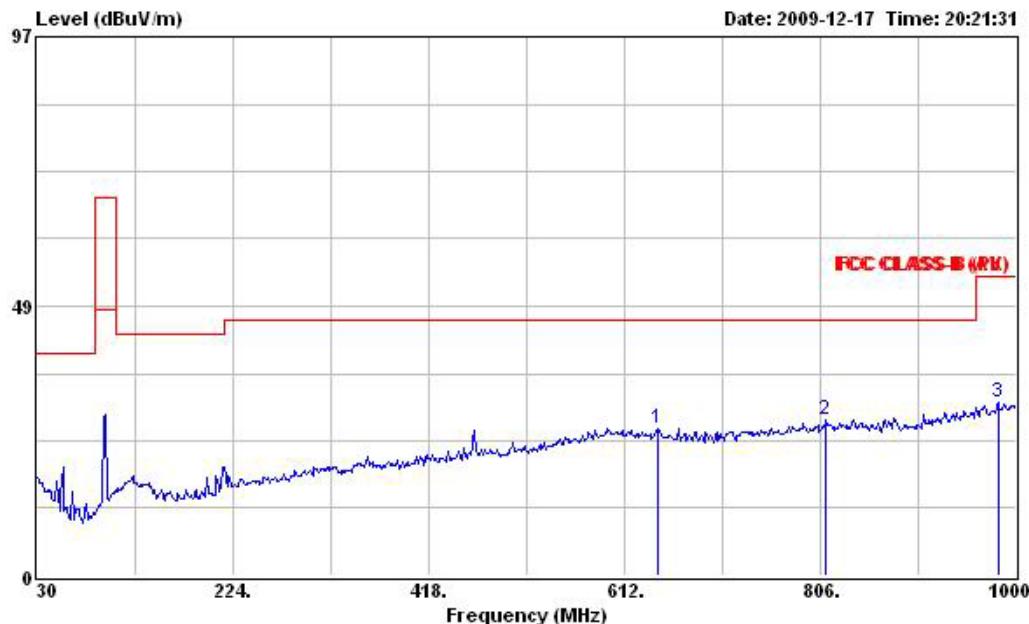


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 180度

Freq	Level	Over Limit	Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant	Table
									Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	378.230	28.08	-17.92	46.00	36.77	4.16	15.00	27.85 Peak	---	---
2	598.420	29.74	-16.26	46.00	32.86	5.25	20.03	28.40 Peak	---	---
3	928.220	28.90	-17.10	46.00	29.73	6.04	20.62	27.49 Peak	---	---

Note: Emissions measured with the Average detector can be found in a separate section of this report.

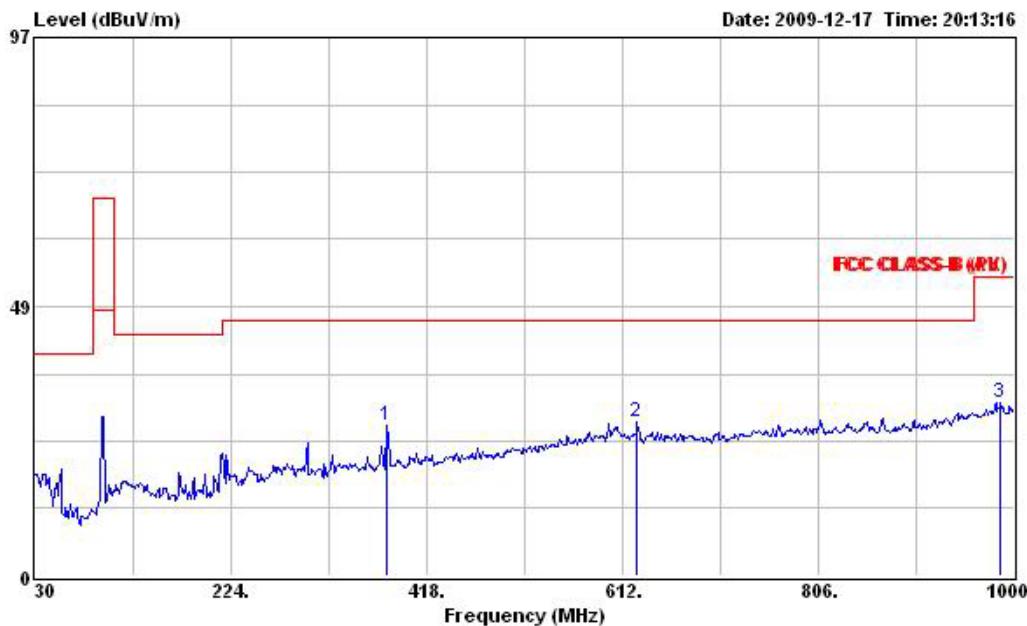
Temperature	20.3°C	Humidity	57.8%
Configurations	97.9 MHz/ 225° / Mode 1		

**Horizontal**

Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 225°

Freq	Level	Over Limit	Limit	Read Line	Cable			Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
					dB	dBuV/m	dBuV					
1	644.980	26.35	-19.65	46.00	29.90	5.23	19.57	28.35	Peak	---	---	---
2	811.820	27.90	-18.10	46.00	30.14	5.57	20.14	27.95	Peak	---	---	---
3	982.540	31.18	-22.82	54.00	30.26	6.13	22.06	27.27	Peak	---	---	---

## Vertical

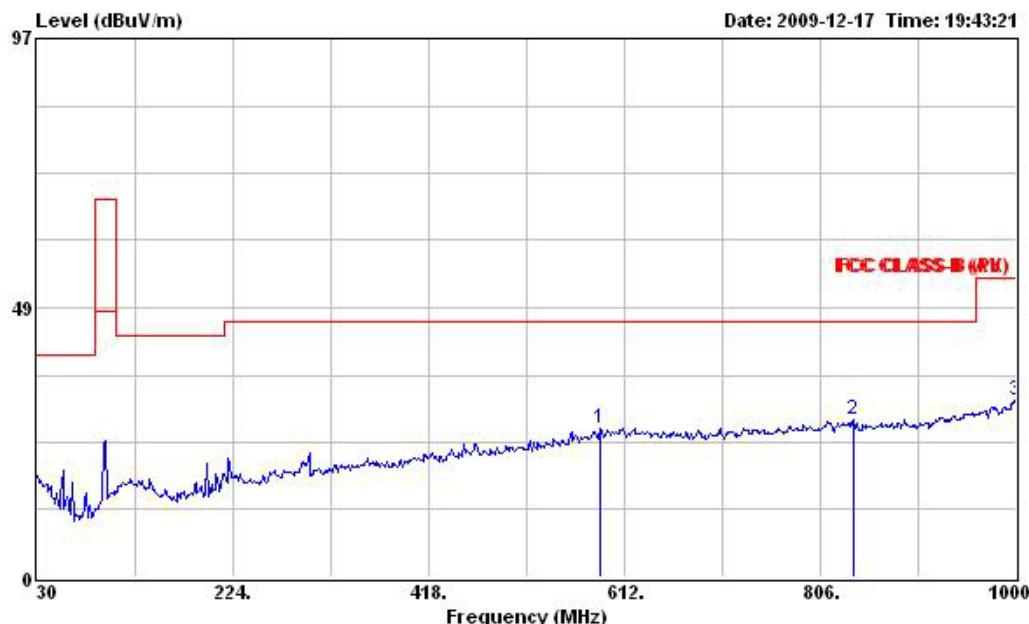


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 225

Freq	Level	Over Limit	Limit	Read Line	Cable	Probe	Preamp	Remark	Ant	Table
									Pos	Pos
MHz	dBuV/m		dB	dBuV/m	dBuV	dB	dB	dB	cm	deg
1	378.230	26.96	-19.04	46.00	35.65	4.16	15.00	27.85 Peak	---	---
2	626.550	27.58	-18.42	46.00	30.93	5.24	19.78	28.37 Peak	---	---
3	986.420	31.20	-22.80	54.00	30.15	6.14	22.16	27.25 Peak	---	---

Note: Emissions measured with the Average detector can be found in a separate section of this report.

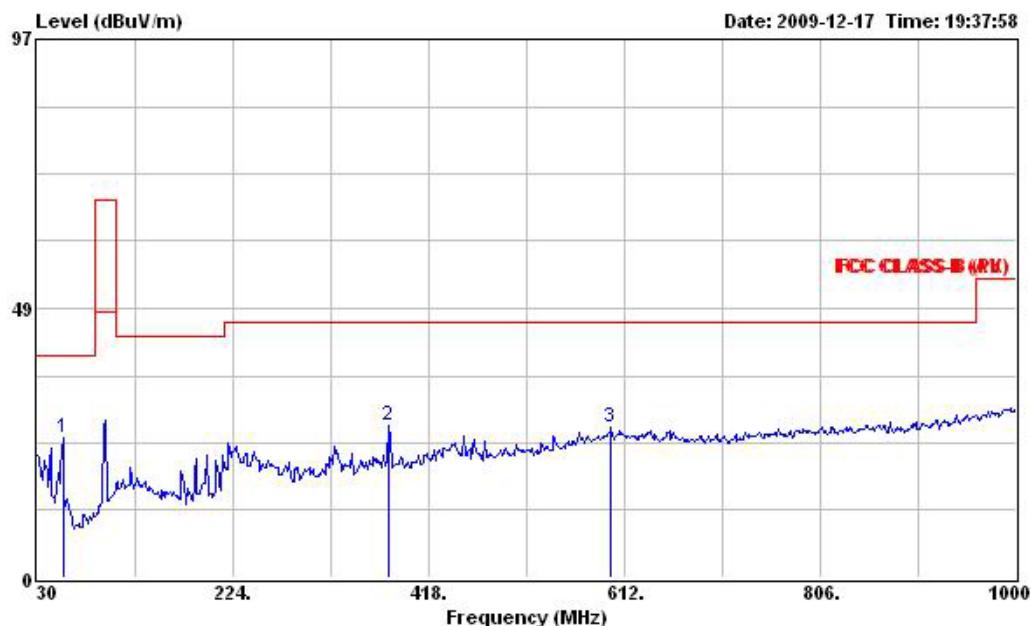
Temperature	20.3°C	Humidity	57.8%
Configurations	97.9 MHz/ 270° / Mode 1		

**Horizontal**

Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 270度

Freq	Level	Over Limit	Limit	Read Line	Cable			Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
					dB	dBuV/m	dBuV					
1 587.750	26.87	-19.13	46.00	30.33	5.20	19.74	28.40	Peak		---	---	
2 838.980	28.42	-17.58	46.00	30.41	5.79	20.06	27.84	Peak		---	---	
3 1000.000	31.70	-22.30	54.00	30.20	6.18	22.52	27.20	Peak		---	---	

## Vertical



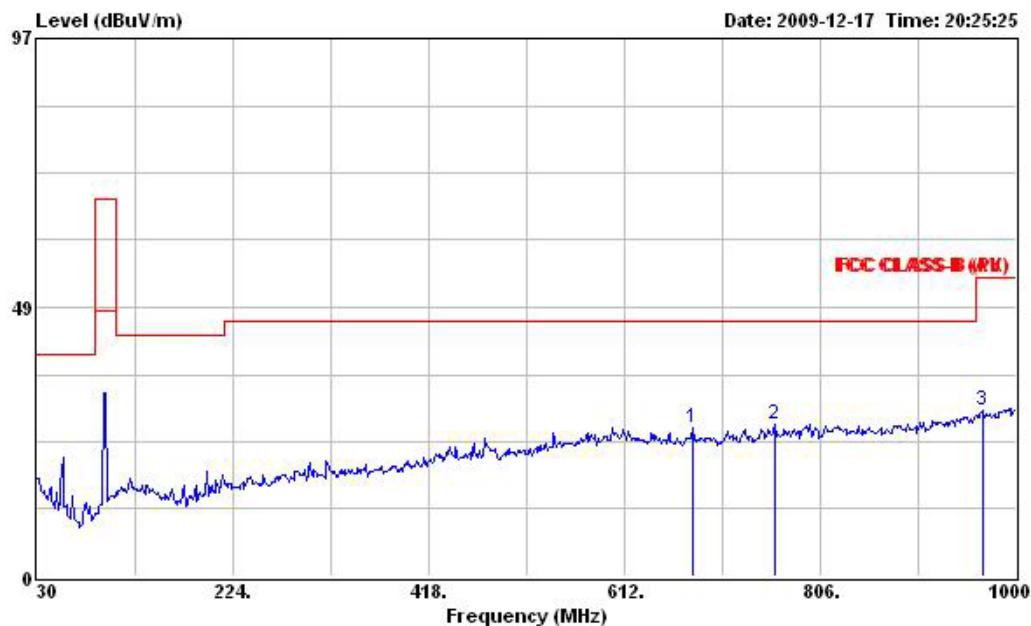
Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 270度

Freq	Level	Over	Limit	Read	Cable	Probe	Preamp	Remark	Ant Pos	Table Pos
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB			
1	55.220	25.32	-14.68	40.00	43.30	1.74	8.47	28.19 Peak	---	---
2	378.230	27.43	-18.57	46.00	36.12	4.16	15.00	27.85 Peak	---	---
3	598.420	27.01	-18.99	46.00	30.13	5.25	20.03	28.40 Peak	---	---

Note: Emissions measured with the Average detector can be found in a separate section of this report.

Temperature	20.3°C	Humidity	57.8%
Configurations	97.9 MHz/ 315° / Mode 1		

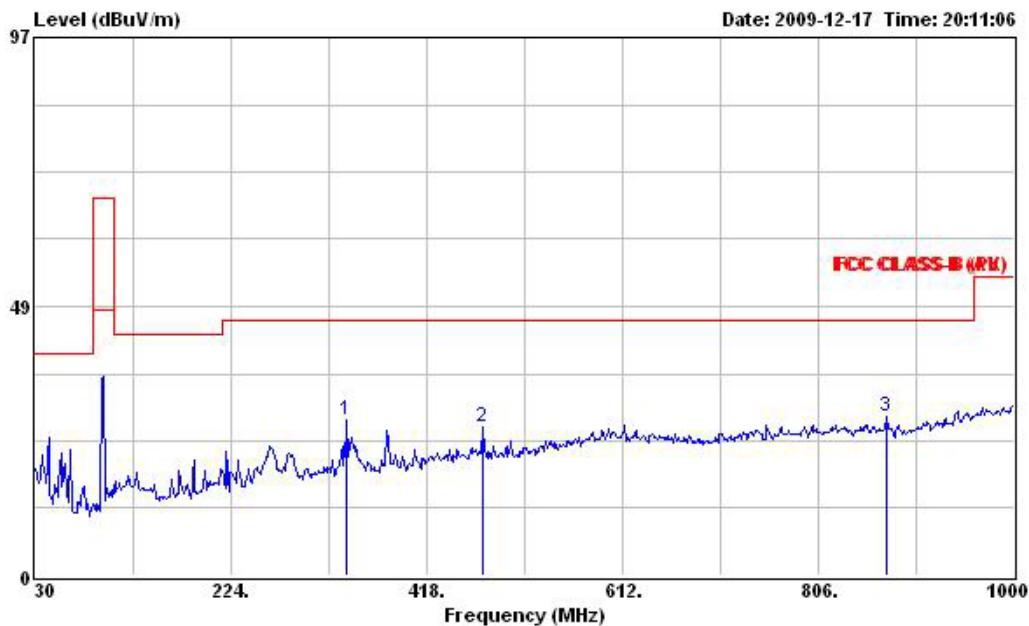
## Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 315度

Freq	Level	Over Limit	Limit	Read	Cable			Probe	Preamp	Ant	Table
					Line	Level	Cable				
MHz	dBuV/m		dB	dBuV/m		dB		dB		cm	deg
1	679.900	26.87	-19.13	46.00	30.62	5.41	19.16	28.32	Peak	---	---
2	761.380	27.49	-18.51	46.00	30.24	5.67	19.69	28.11	Peak	---	---
3	967.020	30.00	-24.00	54.00	29.60	6.08	21.65	27.33	Peak	---	---

## Vertical



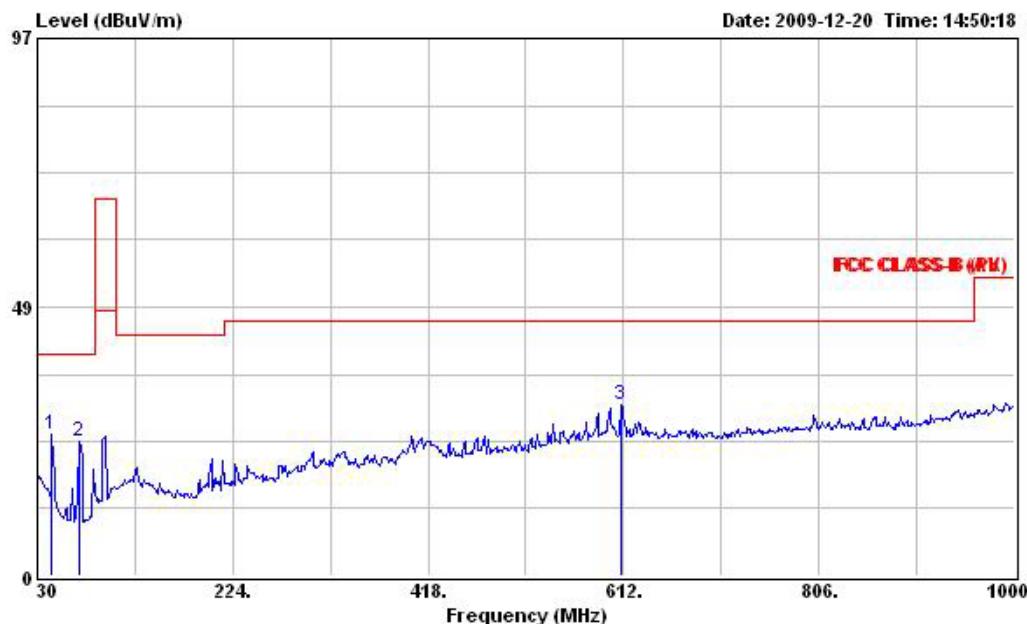
Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:PH3SP5  
 Memo : FM 97.9M  
 Memo : FORD MONDEO  
 Memo : Medium CAR  
 Memo : 315Hz

Freq	Level	Over Limit	Limit	Read Line	Cable			Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
					dB	dBuV/m	dBuV					
MHz	dBuV/m		dB	dBuV/m	dB		dB	dB	dB		cm	deg
1 338.460	28.00	-18.00	46.00	37.20	3.97	14.39	27.56	Peak			---	---
2 474.260	26.72	-19.28	46.00	33.63	4.57	16.82	28.30	Peak			---	---
3 873.900	28.55	-17.45	46.00	30.32	5.97	19.96	27.70	Peak			---	---

Note: Emissions measured with the Average detector can be found in a separate section of this report.

Temperature	20.3°C	Humidity	57.8%
Configurations	97.9 MHz/ 0° / Mode 2		

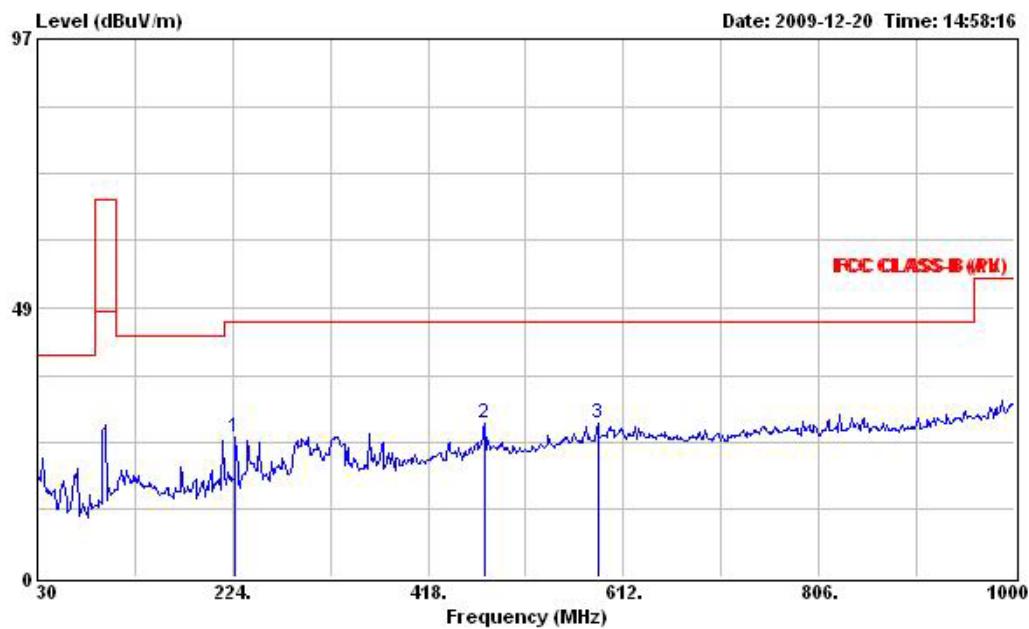
### Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 Model : SP5TK1  
 Memo : FCC ID:P3HSP5  
 Memo : FM 97.9M  
 Memo : Mitsubishi (LANCER GLXi)  
 Memo : Small CAR  
 Memo : 0度

Freq	Level	Over Limit	Limit	Read Line	Cable			Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
					dB	dBuV/m	dBuV					
1	44.550	25.43	-14.57	40.00	39.79	1.55	12.30	28.21	Peak	---	---	---
2	71.710	24.25	-15.75	40.00	43.35	1.96	7.10	28.16	Peak	---	---	---
3	610.060	30.78	-15.22	46.00	33.95	5.25	19.97	28.39	Peak	---	---	---

## Vertical



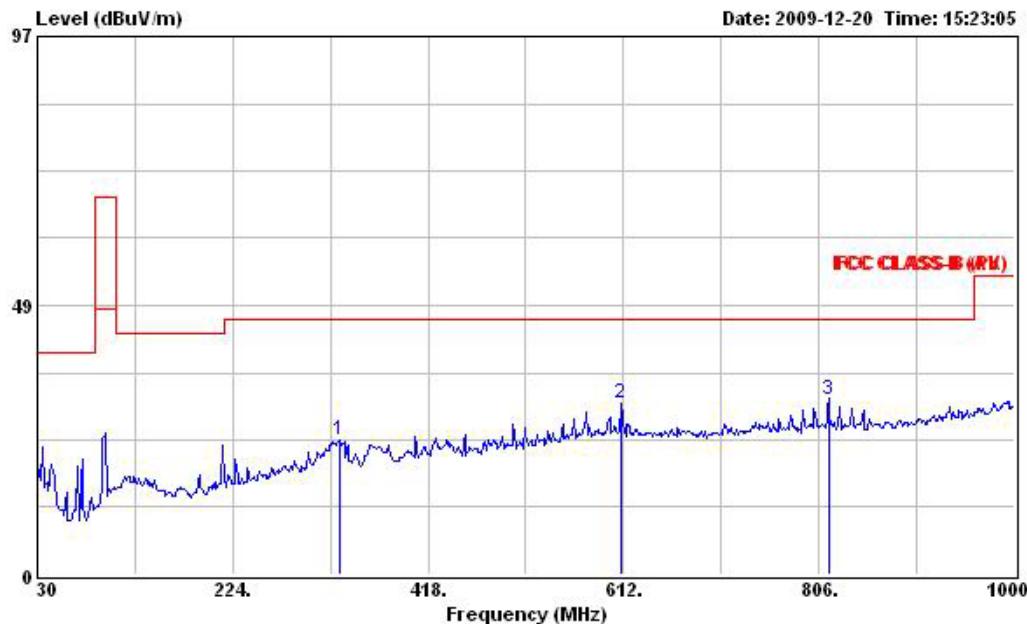
Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:P3HSP5  
 Memo : FM 97.9M  
 Memo : Mitsubishi (LANCER GLXi)  
 Memo : Small CAR  
 Memo : 0度

Freq	Level	Over Limit	Limit	Read Line	Cable			Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
					dB	dBuV/m	dBuV					
1	226.910	25.20	-20.80	46.00	37.69	3.30	11.73	27.52	Peak	---	---	---
2	474.260	27.64	-18.36	46.00	34.55	4.57	16.82	28.30	Peak	---	---	---
3	586.780	27.67	-18.33	46.00	31.16	5.20	19.71	28.40	Peak	---	---	---

Note: Emissions measured with the Average detector can be found in a separate section of this report.

Temperature	20.3°C	Humidity	57.8%
Configurations	97.9 MHz/ 45° / Mode 2		

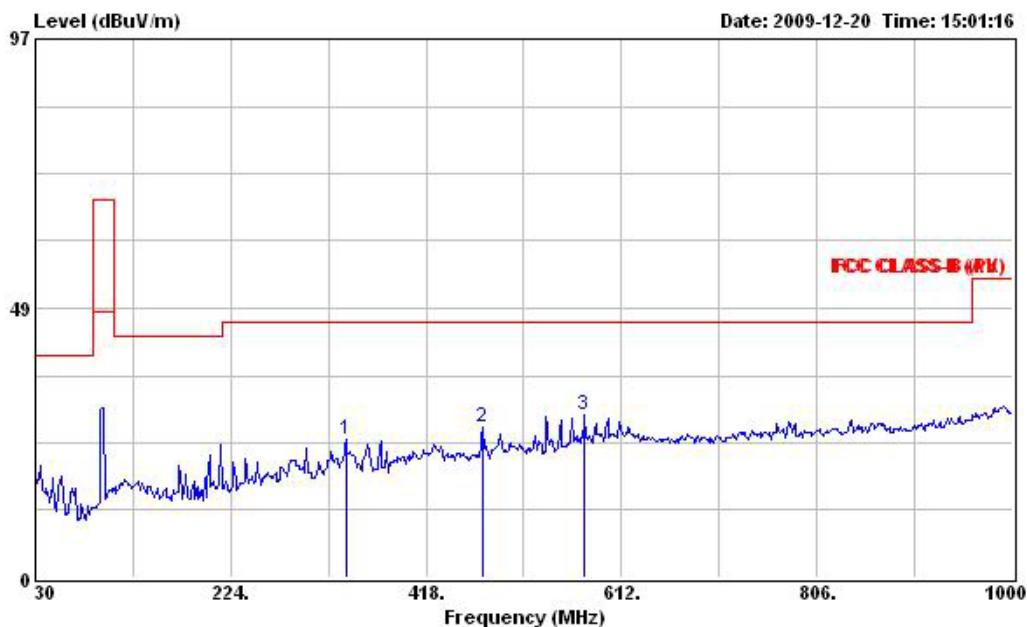
### Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 Model : SP5TK1  
 Memo : FCC ID:P3HSP5  
 Memo : FM 97.9M  
 Memo : Mitsubishi (LANCER GLXi)  
 Memo : Small CAR  
 Memo : 45°

Freq	Level	Over Limit	Limit	Read Line	Cable			Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
					dB	dBuV/m	dBuV					
330.700	24.36	-21.64	46.00	33.65	3.95	14.27	27.51	Peak	---	---	---	---
610.060	30.73	-15.27	46.00	33.90	5.25	19.97	28.39	Peak	---	---	---	---
815.700	31.65	-14.35	46.00	33.87	5.60	20.12	27.94	Peak	---	---	---	---

## Vertical

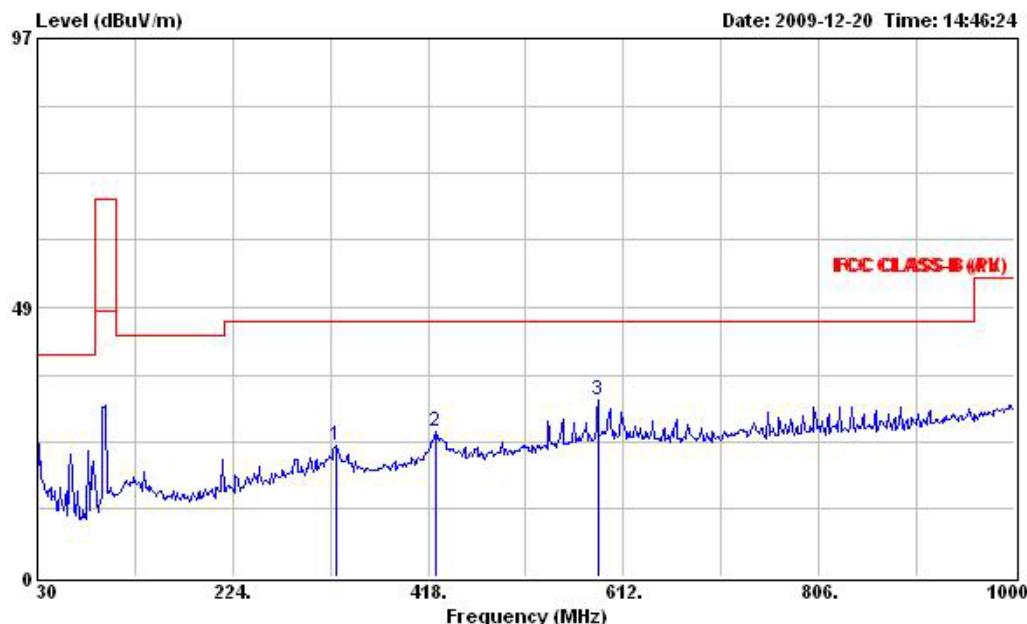


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:P3HSP5  
 Memo : FM 97.9M  
 Memo : Mitsubishi (LANCER GLXi)  
 Memo : Small CAR  
 Memo : 45

Freq	Level	Over Limit	Limit	Read Line	Cable			Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
					dB	dBuV/m	dBuV					
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	dB	dB	cm	deg
1	338.460	24.99	-21.01	46.00	34.19	3.97	14.39	27.56	Peak	---	---	
2	474.260	26.96	-19.04	46.00	33.87	4.57	16.82	28.30	Peak	---	---	
3	575.140	29.18	-16.82	46.00	33.05	5.14	19.39	28.40	Peak	---	---	

Note: Emissions measured with the Average detector can be found in a separate section of this report.

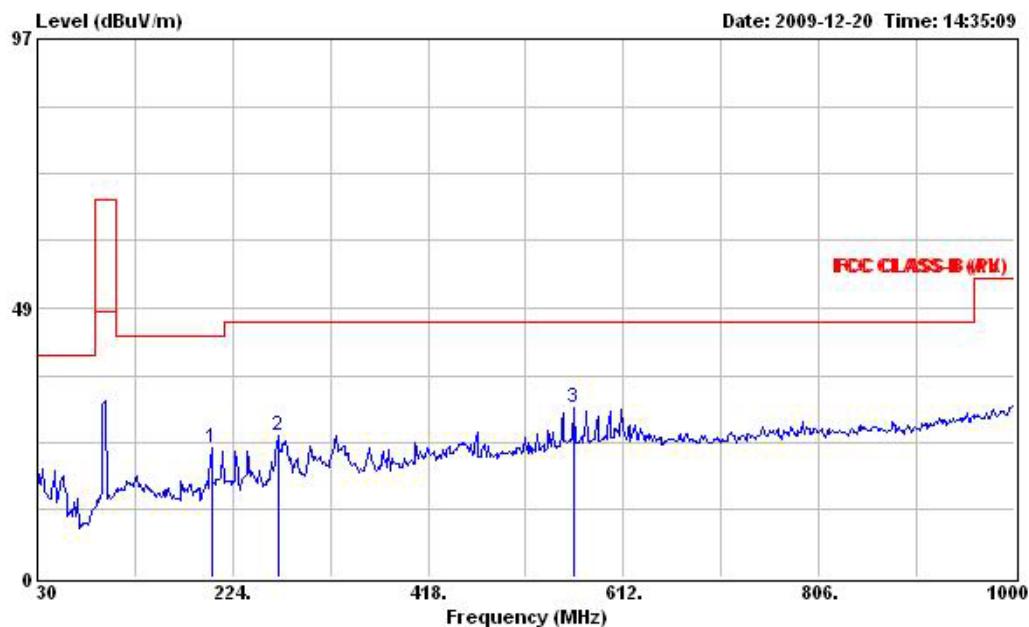
Temperature	20.3°C	Humidity	57.8%
Configurations	97.9 MHz/ 90° / Mode 2		

**Horizontal**

Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 Model : SP5TK1  
 Memo : FCC ID:P3HSP5  
 Memo : FM 97.9M  
 Memo : Mitsubishi (LANCER GLXi)  
 Memo : Small CAR  
 Memo : 90度

Freq	Level	Over Limit	Limit	Read Line	Cable	Probe	Preamp	Ant	Table	
									Pos	Pos
MHz	dBuV/m		dB	dBuV/m	dBuV	dB	dB	dB	cm	deg
1	326.820	23.50	-22.50	46.00	32.84	3.93	14.21	27.48	Peak	---
2	424.790	26.04	-19.96	46.00	33.91	4.40	15.83	28.10	Peak	---
3	586.780	31.74	-14.26	46.00	35.23	5.20	19.71	28.40	Peak	---

## Vertical



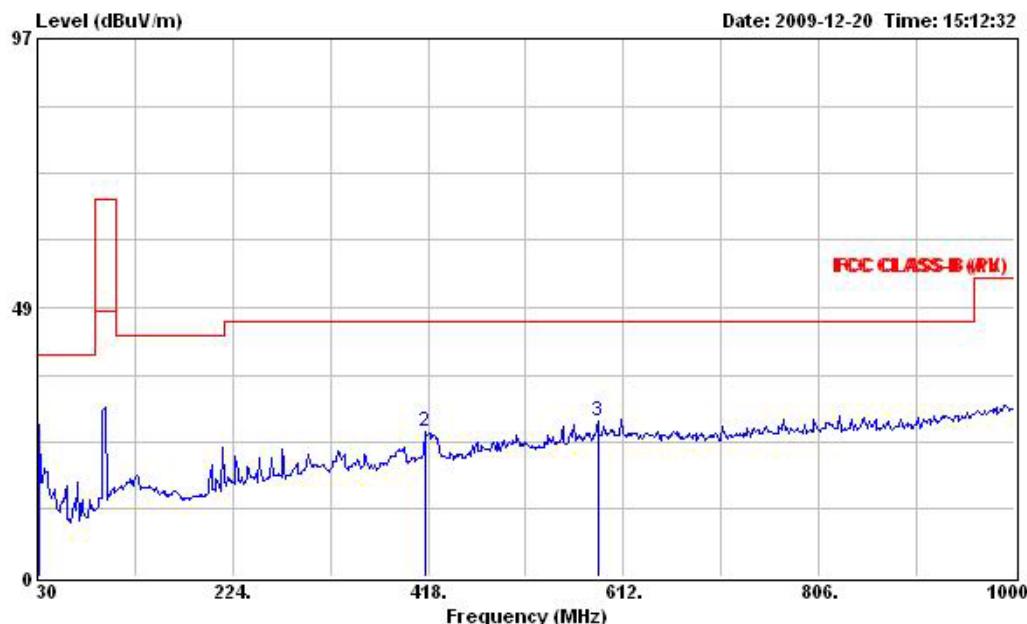
Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:P3HSP5  
 Memo : FM 97.9M  
 Memo : Mitsubishi (LANCER GLXi)  
 Memo : Small CAR  
 Memo : 90度

Freq	Level	Over Limit	Limit	Read Line	Cable	Probe	Preamp	Remark	Ant	Table
									Pos	Pos
MHz	dBuV/m		dB	dBuV/m	dBuV	dB	dB	dB	cm	deg
1	202.660	23.25	-20.25	43.50	37.01	3.20	10.63	27.59 Peak	---	---
2	268.620	25.54	-20.46	46.00	36.20	3.57	13.16	27.39 Peak	---	---
3	563.500	30.41	-15.59	46.00	34.65	5.09	19.07	28.40 Peak	---	---

Note: Emissions measured with the Average detector can be found in a separate section of this report.

<b>Temperature</b>	20.3°C	<b>Humidity</b>	57.8%
<b>Configurations</b>	97.9 MHz/ 135° / Mode 2		

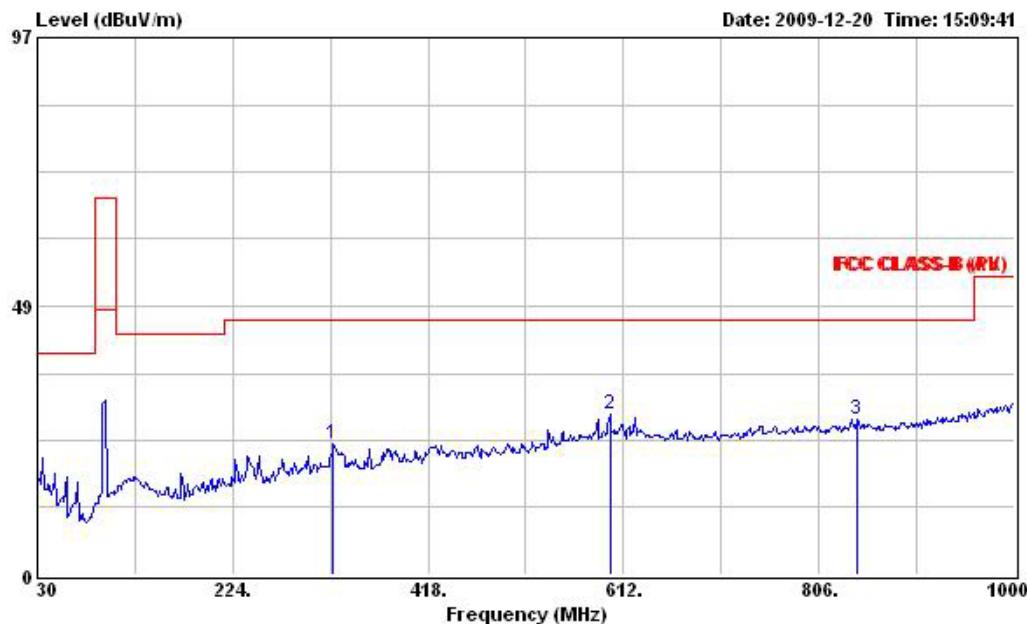
## Horizontal



Site : 10CH01-HY  
Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
Model : SP5TK1  
Memo : FCC ID:P3HSP5  
Memo : FM 97.9M  
Memo : Mitsubishi ( LANCER GLXi )  
Memo : Small CAR  
Memo : 135度

Item	Antenna Test Data										Ant Pos	Table Pos
	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark			
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	cm	deg		
1	31.940	27.43	-12.57	40.00	38.66	1.26	15.76	28.25	Peak	---	---	
2	416.060	26.13	-19.87	46.00	34.18	4.36	15.65	28.06	Peak	---	---	
3	586.780	28.07	-17.93	46.00	31.56	5.20	19.71	28.40	Peak	---	---	

## Vertical



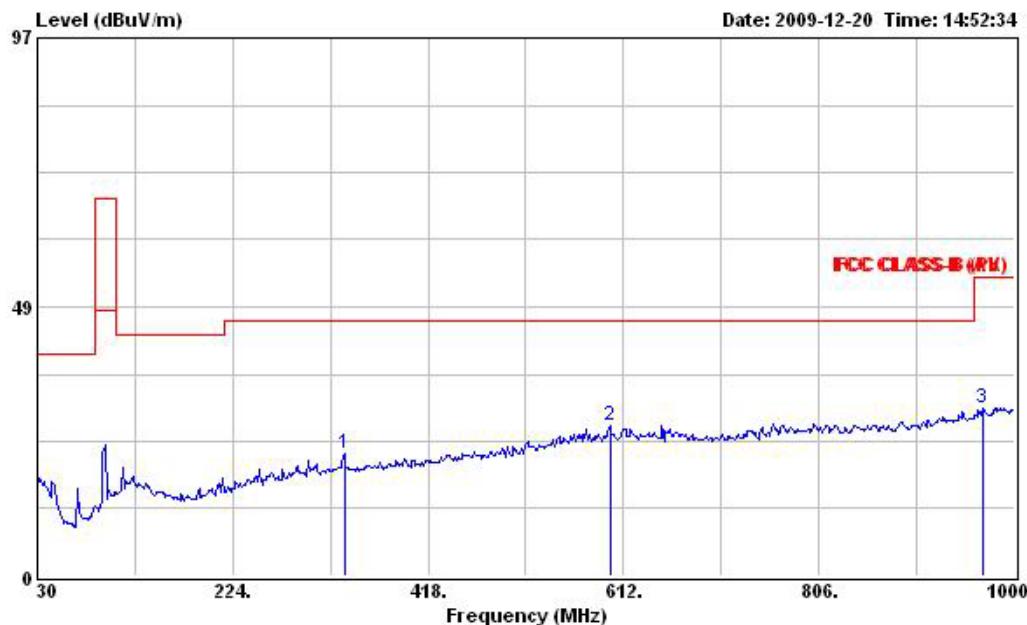
Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:P3HSP5  
 Memo : FM 97.9M  
 Memo : Mitsubishi (LANCER GLXi)  
 Memo : Small CAR  
 Memo : 135度

Freq	Level	Over Limit	Limit	Read Line	Cable Level	Probe Loss	Preamp Factor	Remark	Ant	Table
									Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	323.910	23.74	-22.26	46.00	33.10	3.93	14.17	27.46 Peak	---	---
2	598.420	29.10	-16.90	46.00	32.22	5.25	20.03	28.40 Peak	---	---
3	843.830	28.13	-17.87	46.00	30.07	5.84	20.04	27.82 Peak	---	---

Note: Emissions measured with the Average detector can be found in a separate section of this report.

Temperature	20.3°C	Humidity	57.8%
Configurations	97.9 MHz/ 225° / Mode 2		

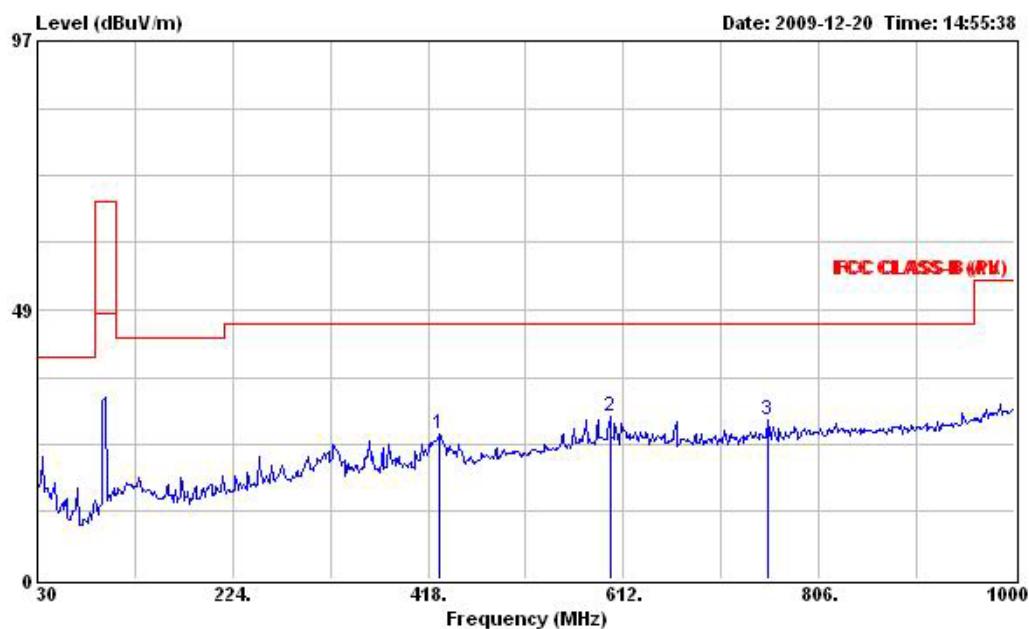
### Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 Model : SP5TK1  
 Memo : FCC ID:P3HSP5  
 Memo : FM 97.9M  
 Memo : Mitsubishi ( LANCER GLXi )  
 Memo : Small CAR  
 Memo : 180度

Freq	Level	Over Limit	Limit	Read Line	Cable Probe Preamp			Ant Pos	Table Pos
					dB	dBuV/m	dB		
1	334.580	22.12	-23.88	46.00	31.37	3.96	14.33	27.54 Peak	---
2	598.420	27.11	-18.89	46.00	30.23	5.25	20.03	28.40 Peak	---
3	967.990	30.35	-23.65	54.00	29.92	6.08	21.67	27.32 Peak	---

## Vertical



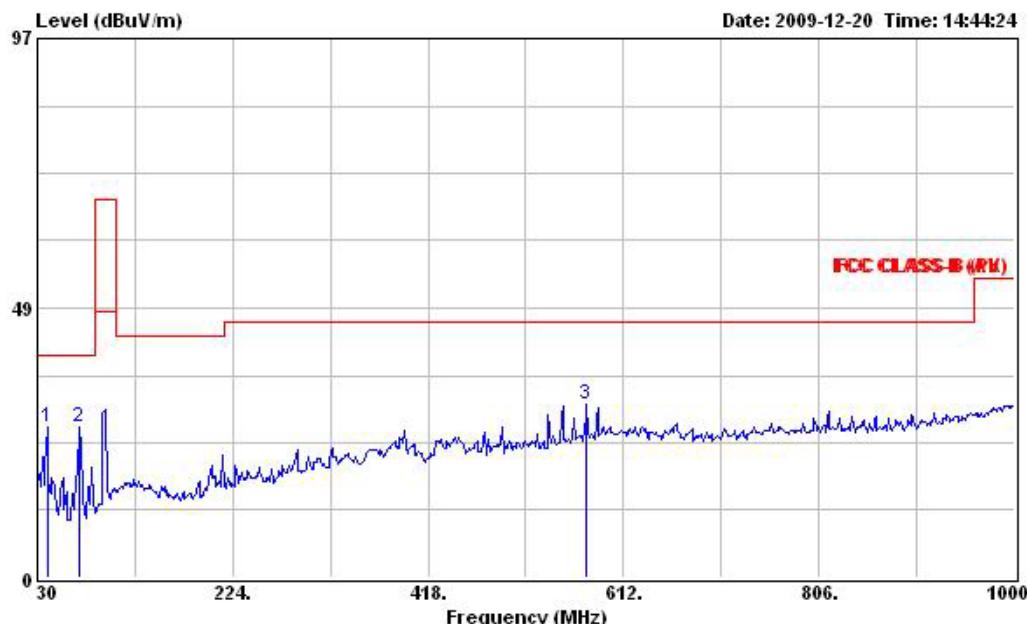
Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:P3HSP5  
 Memo : FM 97.9M  
 Memo : Mitsubishi (LANCER GLXi)  
 Memo : Small CAR  
 Memo : 180度

Freq	Level	Over Limit	Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant	Table
									Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1 428.670	26.01	-19.99	46.00	33.80	4.41	15.91	28.11	Peak	---	---
2 598.420	29.25	-16.75	46.00	32.37	5.25	20.03	28.40	Peak	---	---
3 754.590	28.68	-17.32	46.00	31.51	5.71	19.60	28.14	Peak	---	---

Note: Emissions measured with the Average detector can be found in a separate section of this report.

Temperature	20.3°C	Humidity	57.8%
Configurations	97.9 MHz/ 270° / Mode 2		

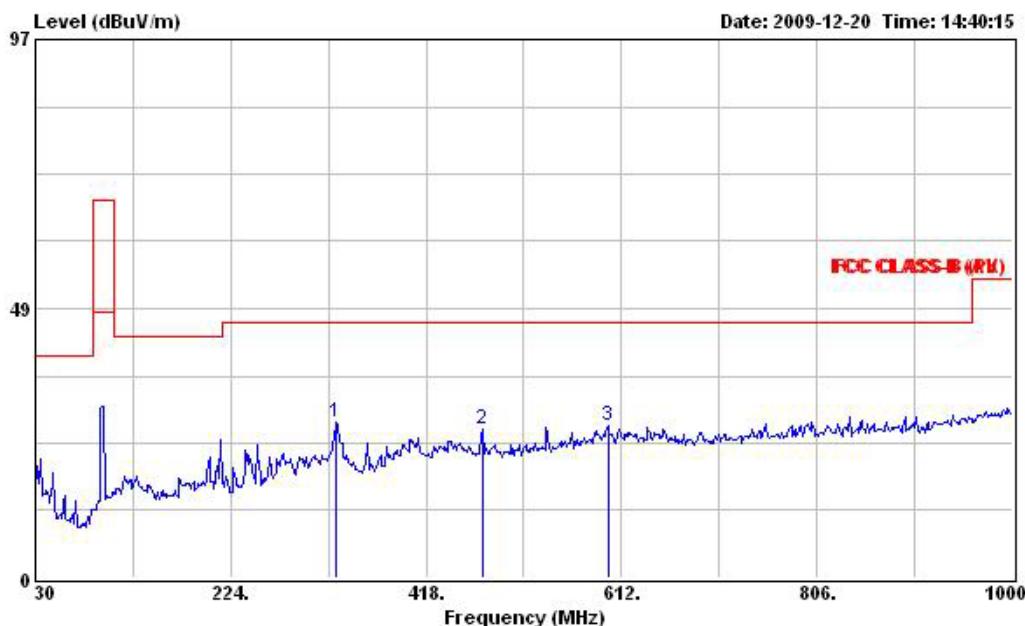
### Horizontal



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 Model : SP5TK1  
 Memo : FCC ID:P3HSP5  
 Memo : FM 97.9M  
 Memo : Mitsubishi ( LANCER GLXi )  
 Memo : Small CAR  
 Memo : 270度

Freq	Level	Over Limit	Limit	Read Line	Cable Probe Preamp			Ant Pos	Table Pos
					dB	dBuV/m	dB		
1	39.700	26.97	-13.03	40.00	40.12	1.43	13.65	28.23 Peak	---
2	71.710	27.05	-12.95	40.00	46.15	1.96	7.10	28.16 Peak	---
3	575.140	31.23	-14.77	46.00	35.10	5.14	19.39	28.40 Peak	---

## Vertical

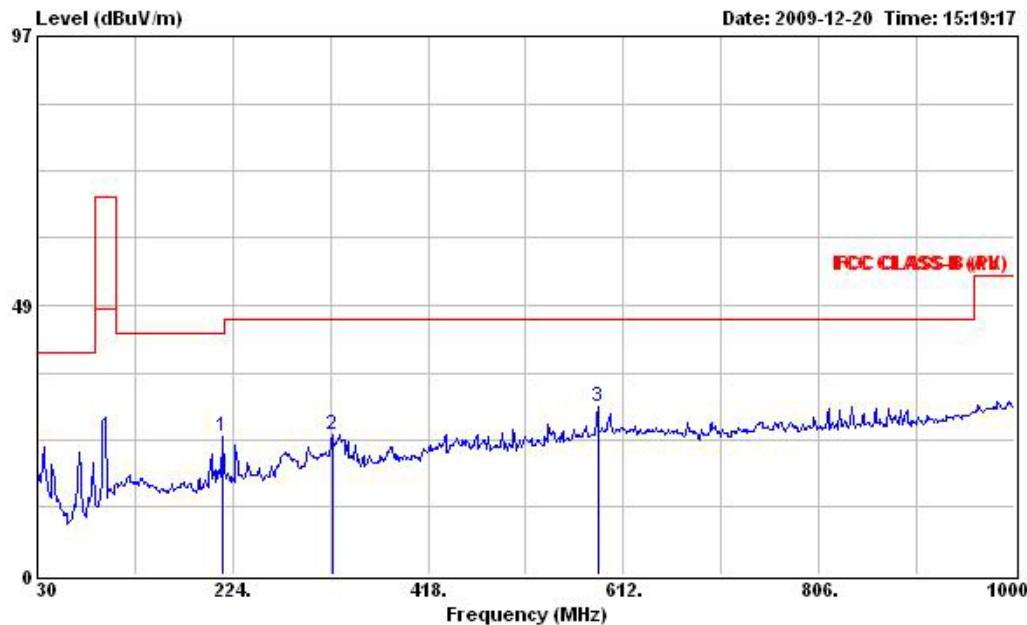


Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:P3HSP5  
 Memo : FM 97.9M  
 Memo : Mitsubishi (LANCER GLXi)  
 Memo : Small CAR  
 Memo : 270 ~~PK~~

Freq	Level	Over Limit	Limit	Read	Cable	Probe	Preamp	Remark	Ant	Table
									Pos	Pos
MHz	dBuV/m		dB	dBuV/m	dBuV		dB	dB		
1	327.790	28.15	-17.85	46.00	37.47	3.94	14.23	27.49	Peak	---
2	474.260	26.72	-19.28	46.00	33.63	4.57	16.82	28.30	Peak	---
3	598.420	27.41	-18.59	46.00	30.53	5.25	20.03	28.40	Peak	---

Note: Emissions measured with the Average detector can be found in a separate section of this report.

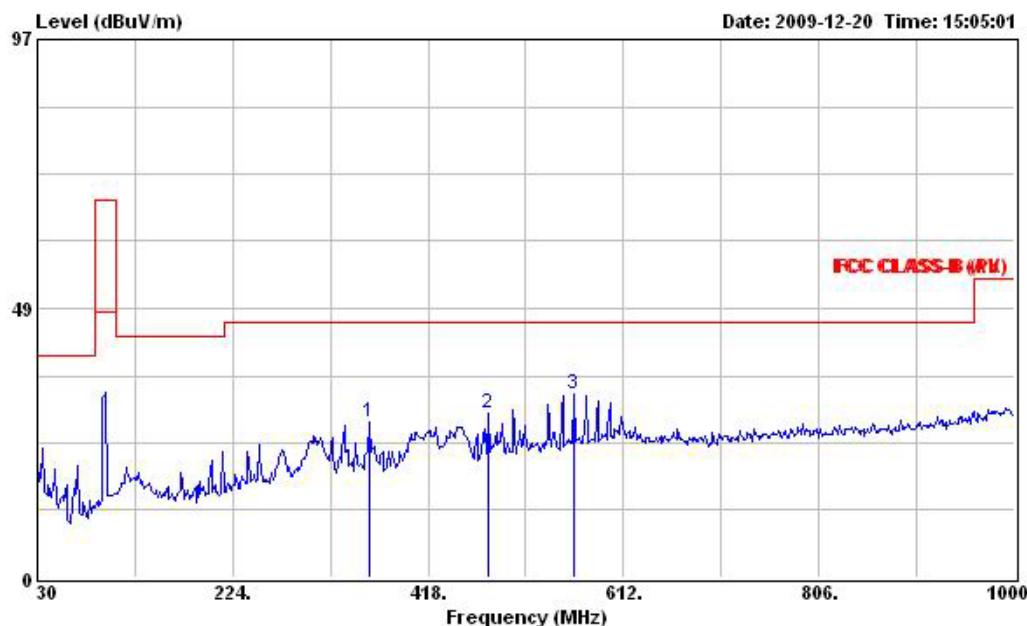
Temperature	20.3°C	Humidity	57.8%
Configurations	97.9 MHz/ 315° / Mode 2		

**Horizontal**

Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL  
 Model : SP5TK1  
 Memo : FCC ID:P3HSP5  
 Memo : FM 97.9M  
 Memo : Mitsubishi (LANCER GLXi)  
 Memo : Small CAR  
 Memo : 315~~Hz~~

Freq	Level	Over Limit	Limit	Read Line	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant	Table
									Pos	Pos
MHz	dBuV/m		dB	dBuV/m	dBuV	dB	dB	dB	cm	deg
1 214.300	24.82	-18.68	43.50	37.97	3.25	11.16	27.56	Peak	---	---
2 322.940	25.10	-20.90	46.00	34.48	3.92	14.15	27.45	Peak	---	---
3 586.780	30.08	-15.92	46.00	33.57	5.20	19.71	28.40	Peak	---	---

## Vertical



Site : 10CH01-HY  
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL  
 Model : SP5TK1  
 Memo : FCC ID:P3HSP5  
 Memo : FM 97.9M  
 Memo : Mitsubishi (LANCER GLXi)  
 Memo : Small CAR  
 Memo : 315Hz

Freq	Level	Over Limit	Limit	Read Line	Cable	Probe	Preamp	Remark	Ant	Table
									Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1 358.830	27.90	-18.10	46.00	36.86	4.05	14.70	27.71	Peak	---	---
2 478.140	29.53	-16.47	46.00	36.37	4.57	16.90	28.31	Peak	---	---
3 563.500	32.96	-13.04	46.00	37.20	5.09	19.07	28.40	Peak	---	---

Note: Emissions measured with the Average detector can be found in a separate section of this report.