

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	Xpress R
Brand Name	Sirius
Model Name	XMCK20
Received Date	Dec. 02, 2009
Final Test Date	Dec. 04, 2009

1. General Description of Equipment under Test

Part	Description of Test	Under Limit
3.1	Radiated Emissions	-24.33 dB
3.2	Field Strength of Fundamental Emissions	-1.20 dB

Note: Due to the frequency shift for PK data equipment, the PK frequency should follow the AV data equipment in pat 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) + XMCK20

Mode 2: Small Car (Toyota, COROLLA) + XMCK20

Mode 3: Large Car (Ford, IXION) + XMCK20

2.3 Table for Testing Locations

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

Semi Anechoic Chamber (SAC)

2.4 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>

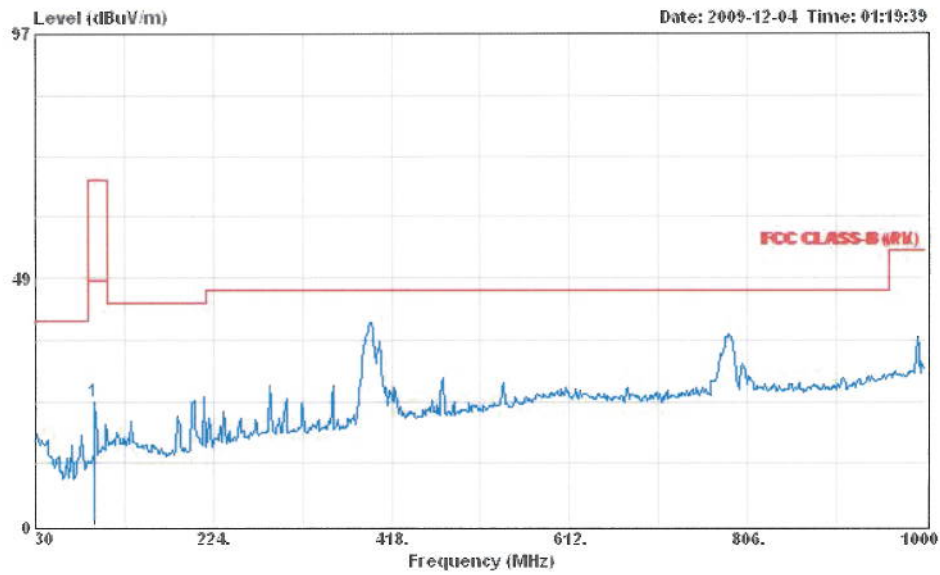
Receiver Parameter	Setting
Attenuation	Auto
Center Frequency	Fundamental Frequency
RB	120 KHz
Detector	Peak / QP / Average

3. TEST RESULT

3.1 Results for Radiated Emissions

Temperature	20°C	Humidity	58%
Configurations	96.9 MHz/ 0° / Mode 1		

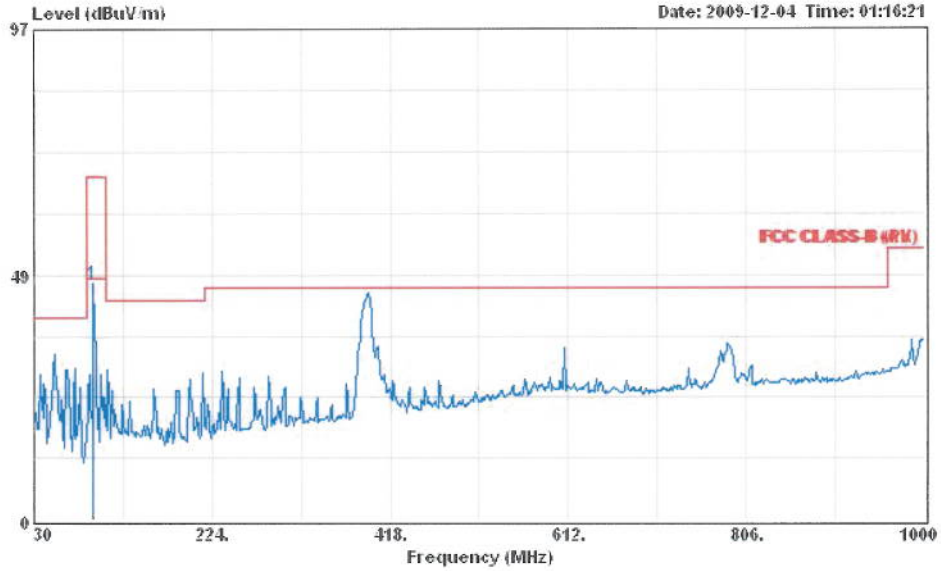
Horizontal



Site : 10CH01-HY
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL
 EUT : Xpress R
 Power :
 model : FM 96.9M
 Memo : FORD MONDEO
 Memo : 0度

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	94.990	24.17	-43.83	68.00	39.42	2.25	10.61	28.11	Peak	---	---

Vertical

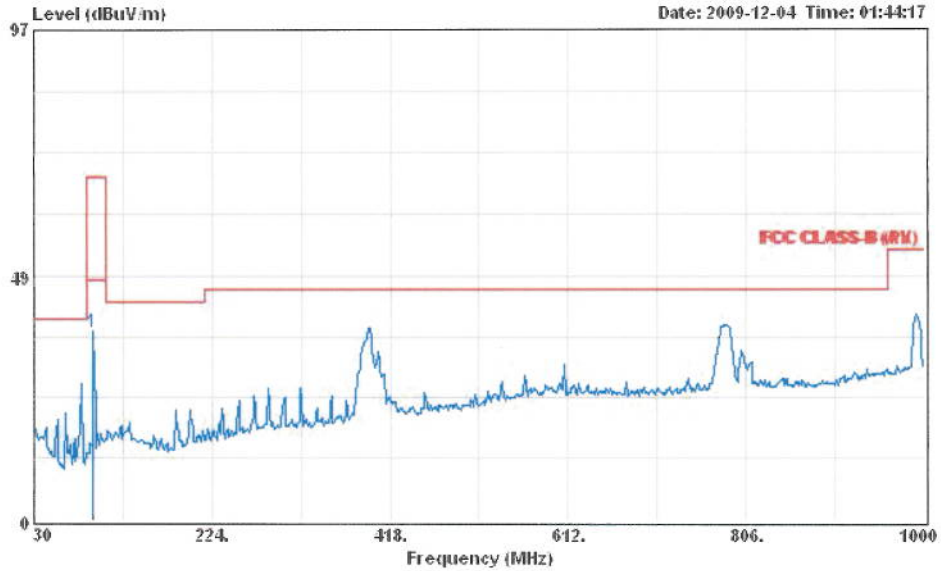


Site : 10CH01-HY
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL
 EUT : Xpress R
 Power :
 model : FM 96.9M
 Memo : FORD MONDEO
 Memo : 0度

	Freq	Level	Over	Limit	Read	Cable	Probe	Preamp	Remark	Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Factor		Pos	Pos
			dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	94.990	47.08	-20.92	68.00	62.33	2.25	10.61	28.11	Peak	---	---

Temperature	20°C	Humidity	58%
Configurations	96.9 MHz/ 45° / Mode 1		

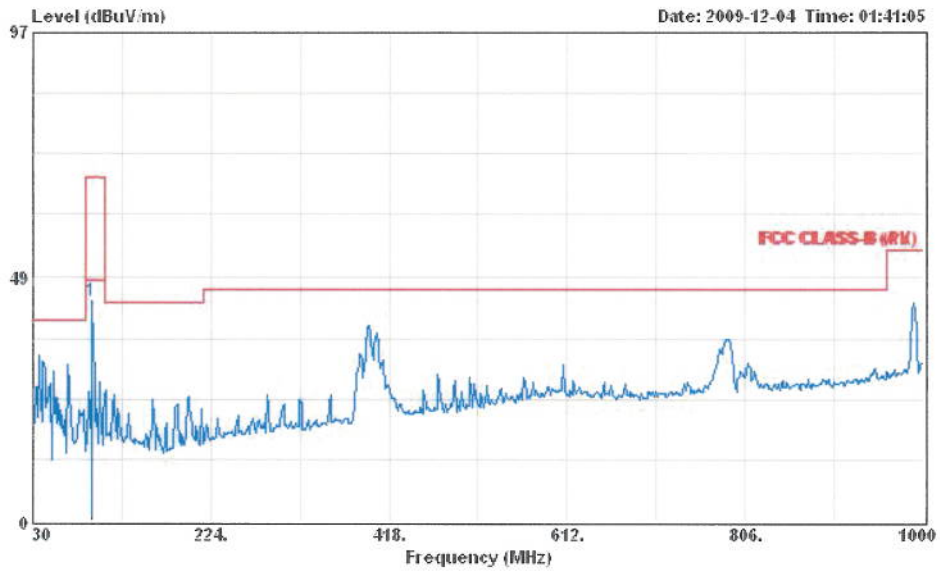
Horizontal



Site : 10CH01-HY
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL
 EUT : Xpress R
 Power :
 model : FM 96.9M
 Memo : FORD MONDEO
 Memo : 45度

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	94.990	37.57	-30.43	68.00	52.82	2.25	10.61	28.11	Peak	---	---

Vertical

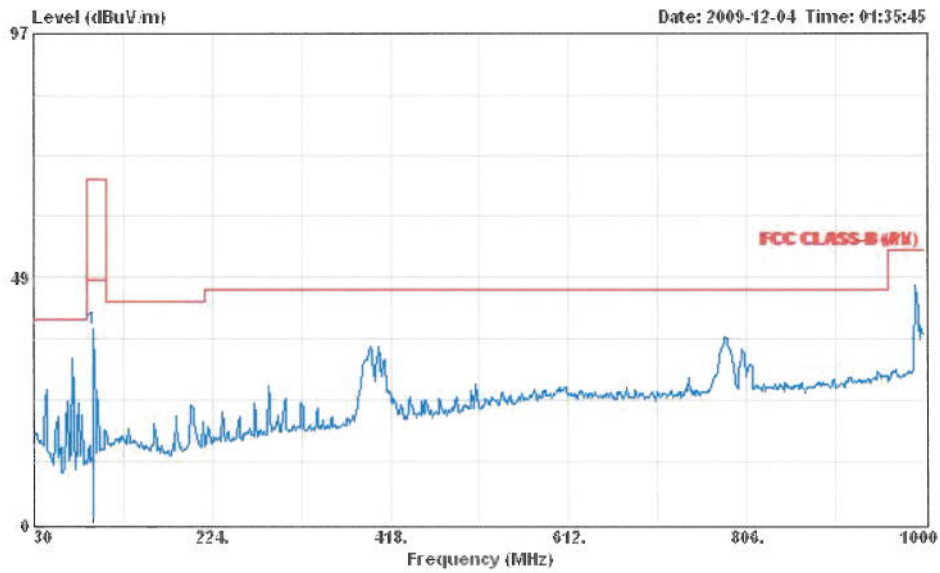


Site : 10CH01-HY
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL
 EUT : Xpress R
 Power :
 model : FM 96.9M
 Memo : FORD MONDEO
 Memo : 45度

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	94.990	43.67	-24.33	68.00	58.92	2.25	10.61	28.11	Peak	---	---

Temperature	20°C	Humidity	58%
Configurations	96.9 MHz/ 90° / Mode 1		

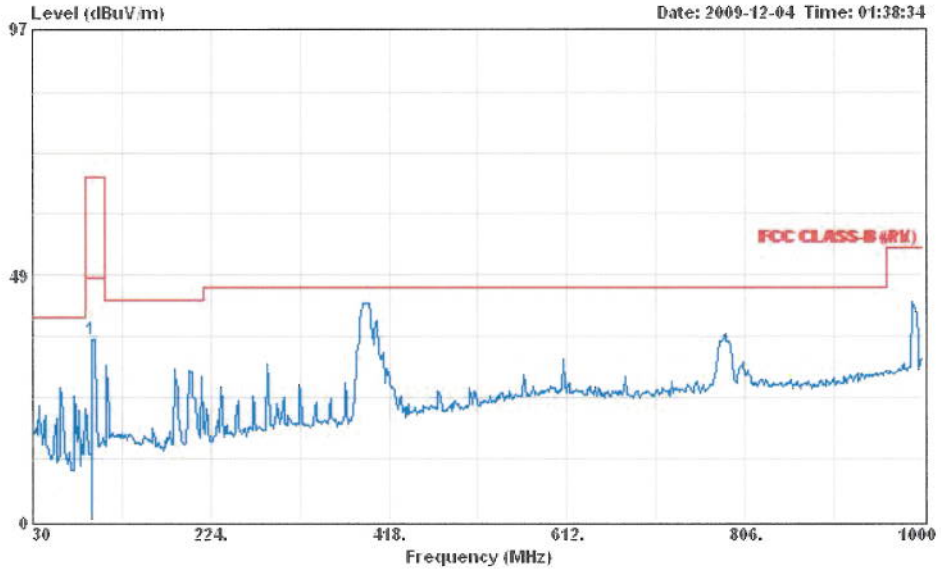
Horizontal



Site : 10CH01-HY
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL
 EUT : Xpress R
 Power :
 model : FM 96.9M
 Memo : FORD MONDEO
 Memo : 90度

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	94.990	38.09	-29.91	68.00	53.34	2.25	10.61	28.11	Peak	---	---

Vertical

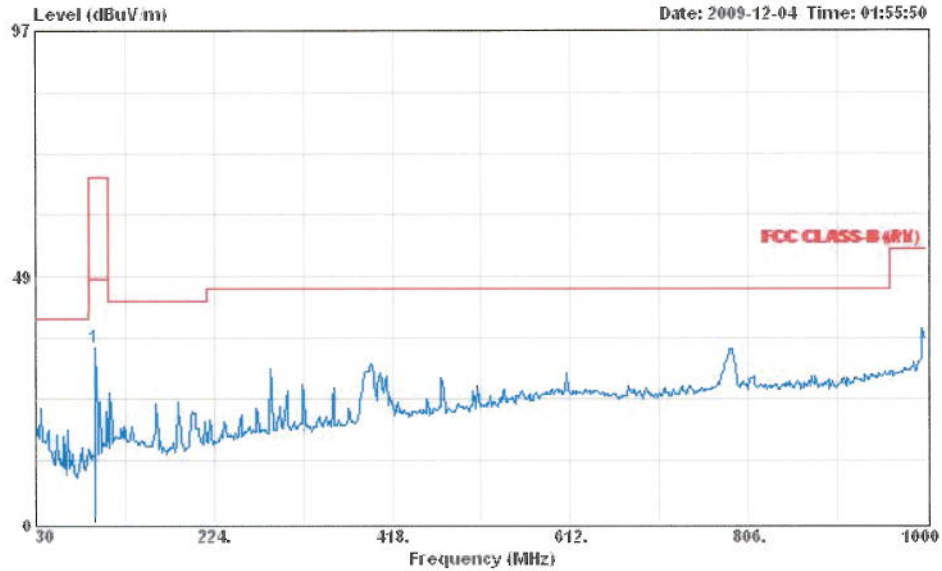


Site : 10CH01-HY
 Condition : FCC CLASS-B (PK) 3m AT-2681 VERTICAL
 EUT : Xpress R
 Power :
 model : FM 96.9M
 Memo : FORD MONDEO
 Memo : 90度

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	94.990	35.68	-32.32	68.00	50.93	2.25	10.61	28.11	Peak	---	---

Temperature	20°C	Humidity	58%
Configurations	96.9 MHz/ 135° / Mode 1		

Horizontal



Site : 10CH01-HY
 Condition : FCC CLASS-B (PK) 3m AT-2681 HORIZONTAL
 EUT : Xpress R
 Power :
 model : FM 96.9M
 Memo : FORD MONDEO
 Memo : 135度

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	94.990	34.44	-33.56	68.00	49.69	2.25	10.61	28.11	Peak	---	---