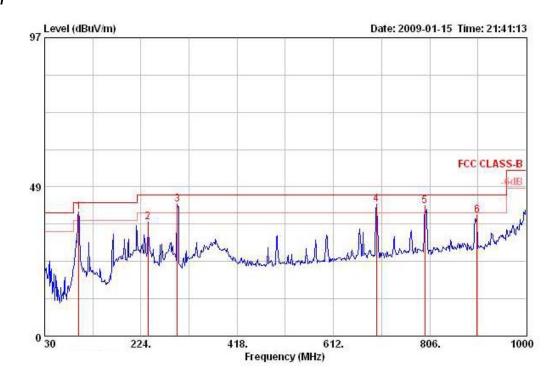


4.5.8. Results of Radiated Emissions (30MHz~1GHz)

Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	Normal Link / Mode 3

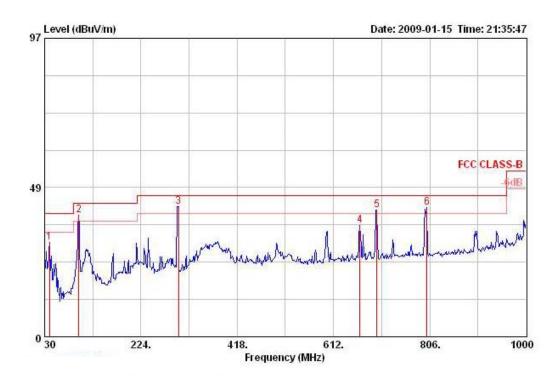
Horizontal



			Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	- dB	dB	-	<u></u>	deg	cm
1 @	98.870	40.37	-3.13	43.50	56.00	10.79	27.61	1.18	Peak	HORIZONTAL	22	115
2	238.550	36.97	-9.03	46.00	50.23	11.91	27.02	1.85	Peak	HORI ZONTAL	0	100
3 @	297.720	42.72	-3.28	46.00	54.19	13.34	26.91	2.09	Peak	HORI ZONTAL	0	100
4 0	698.330	42.73	-3.27	46.00	48.34	19.08	28.00	3.31	Peak	HORI ZONTAL	0	100
5 !	796.300	42.26	-3.74	46.00	46.82	19.74	27.62	3.32	Peak	HORIZONTAL	0	100
6	901.060	39.19	-6.81	46.00	42.45	20.54	27.39	3.60	Peak	HORIZONTAL	0	100

Report Format Version: 01 Page No. : 48 of 89
FCC ID: TX2-RTL8191SE Issued Date : Jan. 16, 2009





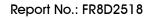
			Over	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	ф	dBuV/m	dBuV	dB/m	<u>ав</u>	dВ	99		deg	cm
1	39.700	30.74	-9.26	40.00	44.73	13.11	27.80	0.70	Peak	VERTICAL	0	400
2 !	98.870	39.45	-4.05	43.50	55.08	10.79	27.61	1.18	Peak	VERTICAL	0	400
3 @	299.660	42.33	-3.67	46.00	53.78	13.36	26.90	2.10	Peak	VERTICAL	0	400
4	665.350	36.31	-9.69	46.00	41.93	18.98	28.03	3.44	Peak	VERTICAL	0	400
5 !	699.300	41.14	-4.86	46.00	46.75	19.09	28.00	3.30	Peak	VERTICAL	0	400
6 !	800.180	41.98	-4.02	46.00	46.51	19.77	27.60	3.30	Peak	VERTICAL	0	400

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

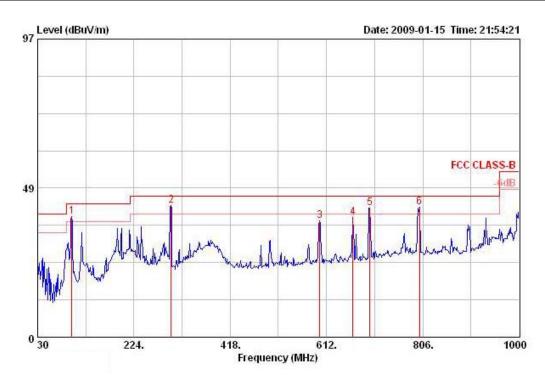


: 50 of 89



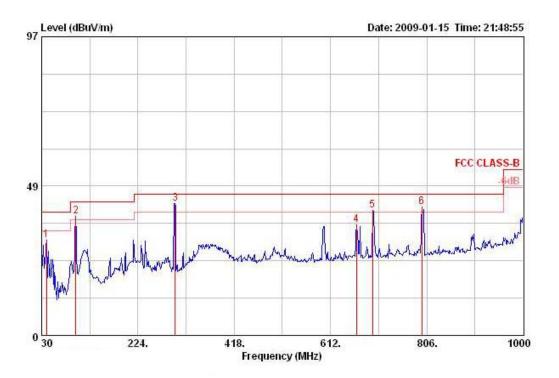
Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	Normal Link / Mode 4

Horizontal



			Over	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
	Free	I Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	мн	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1!	98.87	39.29	-4.21	43.50	54.93	10.79	27.61	1.18	Peak	HORIZONTAL	0	100
2 @	298.69	42.80	-3.20	46.00	54.26	13.35	26.90	2.10	Peak	HORI ZONTAL	0	100
3	598.42	37.89	-8.11	46.00	44.35	18.75	28.10	2.90	Peak	HORIZONTAL	0	100
4	665.35	38.95	-7.05	46.00	44.57	18.98	28.03	3.44	Peak	HORIZONTAL	0	100
5 !	699.30	42.11	-3.89	46.00	47.72	19.09	28.00	3.30	Peak	HORIZONTAL	0	100
6 @	799.21	42.32	-3.68	46.00	46.86	19.76	27.61	3.30	Peak	HORI ZONTAL	0	100





				Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
		Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	5 -	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dВ	dB	*		deg	cm
1	3	9.700	30.94	-9.06	40.00	44.93	13.11	27.80	0.70	Peak	VERTICAL	0	400
2 !	9	8.870	38.56	-4.94	43.50	54.19	10.79	27.61	1.18	Peak	VERTICAL	0	400
3 @	29	8.690	42.89	-3.11	46.00	54.34	13.35	26.90	2.10	Peak	VERTICAL	87	100
4	66	4.380	35.90	-10.10	46.00	41.51	18.98	28.04	3.44	Peak	VERTICAL	0	400
5 !	69	6.390	40.74	-5.26	46.00	46.35	19.08	28.00	3.32	Peak	VERTICAL	0	400
6 !	79	6.300	41.67	-4.33	46.00	46.22	19.74	27.62	3.32	Peak	VERTICAL	0	400

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Page No. : 51 of 89

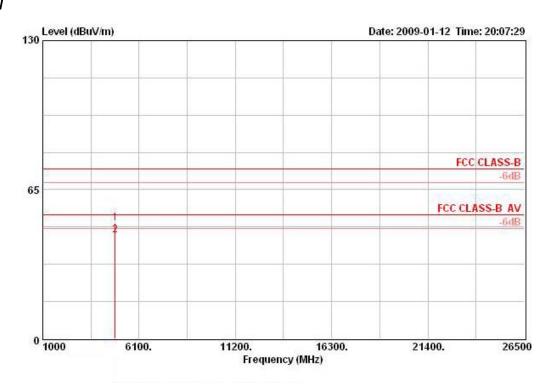
Issued Date : Jan. 16, 2009



4.5.9. Results for Radiated Emissions (1GHz \sim 10th Harmonic)

Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	Draft n MCS0 20MHz Ch 1 / Mode 3

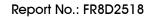
Horizontal



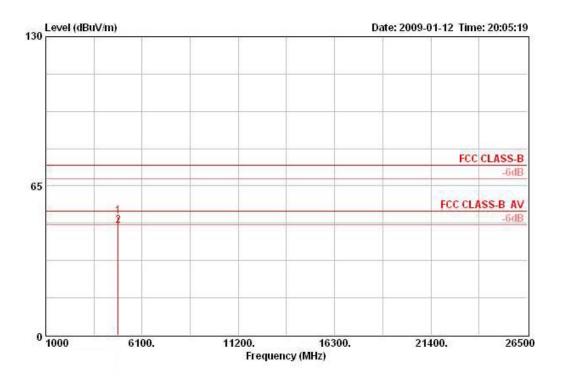
			Over	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	₫В	dB	-		deg -	cm
1	4823.970	50.38	-23.62	74.00	48.40	33.06	35.04	3.96	PEAK	HORIZONTAL	133	116
2 13	4823 990	45 04	-8 96	54 00	43 06	33 06	35 04	3 96	AVERAGE	HORTZONTAL	133	116

 Report Format Version: 01
 Page No.
 : 52 of 89

 FCC ID: TX2-RTL8191SE
 Issued Date
 : Jan. 16, 2009







			Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m		dBuV/m	dBuV	dB/m	<u>ав</u>	dВ			deg -	cm
1	4823.710	51.83	-22.17	74.00	49.86	33.06	35.04	3.96	PEAK	VERTICAL	116	117
2 19	4823.970	47.72	-6.28	54.00	45.74	33.06	35.04	3.96	AVERAGE	VERTICAL	116	117

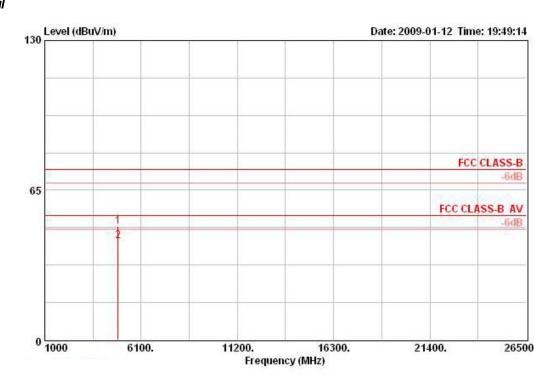
Report Format Version: 01 Page No. : 53 of 89
FCC ID: TX2-RTL8191SE Issued Date : Jan. 16, 2009



Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	Draft n MCS0 20MHz Ch 6 / Mode 3

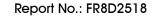
Horizontal

1 2



		0ver	Limit	Read	Antenna	Preamp	Cable			Table	Ant
Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
MHz	dBuV/m	dВ	dBuV/m	dBuV	dB/m	ф	dB	-		deg -	cm
4873.880	49.27	-24.73	74.00	47.17	33.16	35.03	3.97	PEAK	HORIZONTAL	138	102
4972 970	42 94	-11 06	54 00	40 94	22 16	25 02	2 97	DUEDACE	HODE TONTOL	120	102

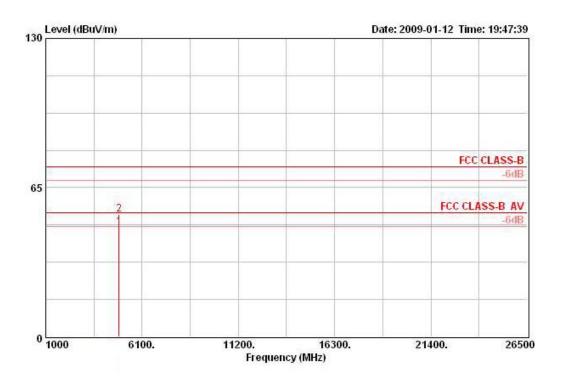
Report Format Version: 01 Page No. : 54 of 89
FCC ID: TX2-RTL8191SE Issued Date : Jan. 16, 2009



: 55 of 89



Vertical

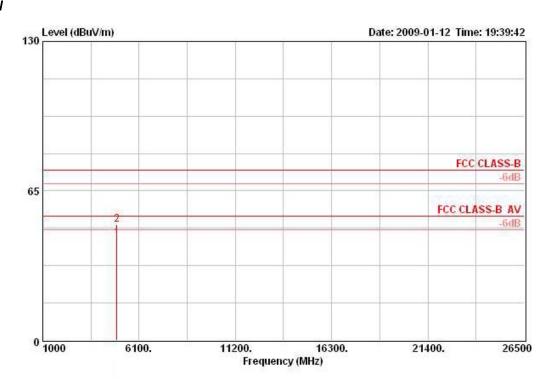


			Over	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	Iz dBuV/m dB dBuV/m dBuV	dB/m	dB	dB			deg	cm.			
1 @	4873.950	47.93	-6.07	54.00	45.83	33.16	35.03	3.97	AVERAGE	VERTICAL	120	130
2	4873.960	53.31	-20.69	74.00	51.21	33.16	35.03	3.97	PEAK	VERTICAL	120	130



Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	Draft n MCS0 20MHz Ch11 / Mode 3

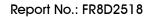
Horizontal



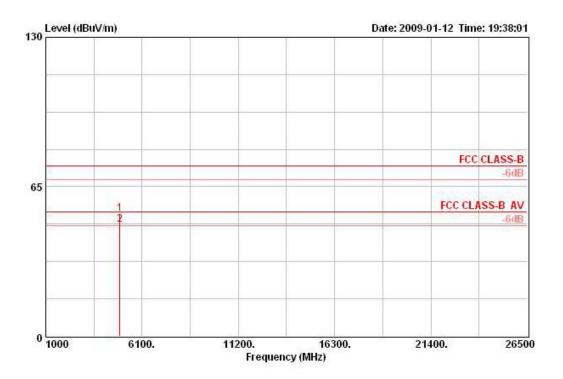
		Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		_	deg -	cm
4923.970	44.46	-9.54	54.00	42.24	33.26	35.02	3.97	AVERAGE	HORIZONTAL	138	115
4924 170	50.46	-23.54	74.00	48.24	33.26	35.02	3.97	PEAK	HORIZONTAL	138	115

 Report Format Version: 01
 Page No.
 : 56 of 89

 FCC ID: TX2-RTL8191SE
 Issued Date
 : Jan. 16, 2009







			Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	dВ	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1	4923.920	53.27	-20.73	74.00	51.05	33.26	35.02	3.97	PEAK	VERTICAL	125	100
2 @	4923.970	48.68	-5.32	54.00	46.46	33.26	35.02	3.97	AVERAGE	VERTICAL	125	100

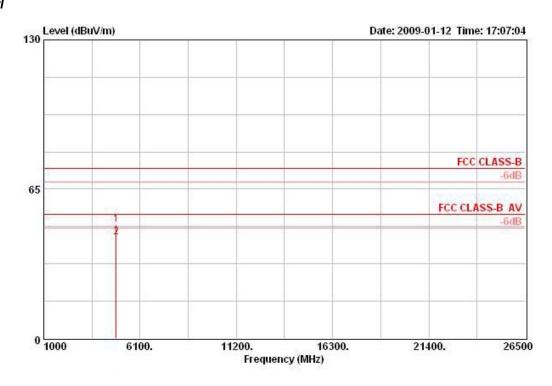
 Report Format Version: 01
 Page No.
 : 57 of 89

 FCC ID: TX2-RTL8191SE
 Issued Date
 : Jan. 16, 2009



Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	Draft n MCS0 40MHz Ch 3 / Mode 3

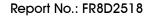
Horizontal



			Over	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	MHz dBuV/m	- dB	dB dBuV/m	dBuV dB/m	dB	dB	dB	-11	deg	cm	
1	4843.830	49.76	-24.24	74.00	47.74	33.09	35.03	3.96	PEAK	HORIZONTAL	137	116
2	4843.970	44.14	-9.86	54.00	42.12	33.09	35.03	3.96	AVERAGE	HORI ZONTAL	137	116

 Report Format Version: 01
 Page No.
 : 58 of 89

 FCC ID: TX2-RTL8191SE
 Issued Date
 : Jan. 16, 2009







			Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	ıV/m dBuV	dB/m	n dB	B dB	dB		deg	cm
1 @	4843.970	49.09	-4.91	54.00	47.07	33.09	35.03	3.96	AVERAGE	VERTICAL	121	102
2	4843.970	53.38	-20.62	74.00	51.36	33.09	35.03	3.96	PEAK	VERTICAL	121	102

Report Format Version: 01
FCC ID: TX2-RTL8191SE

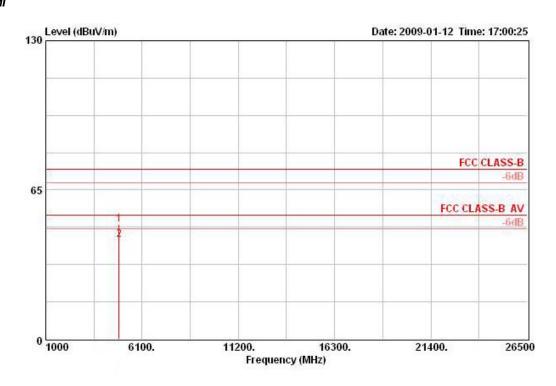
Page No. : 59 of 89

Issued Date : Jan. 16, 2009

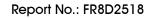


Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	Draft n MCS0 40MHz Ch 6 / Mode 3

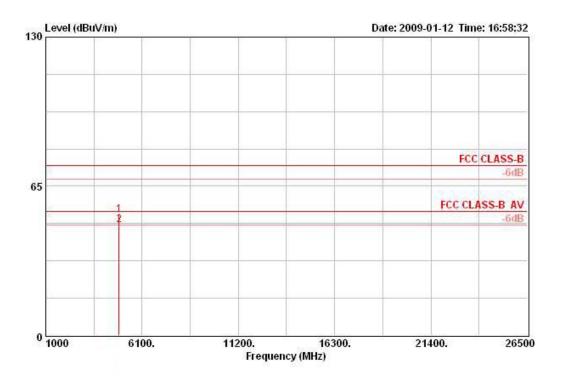
Horizontal



			Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	MHz dBuV/m dB dB	dBuV/m	dBuV	dB/m	dB	dB			deg -	cm.	
í	4873.660	50.15	-23.85	74.00	48.05	33.16	35.03	3.97	PEAK	HORIZONTAL	139	113
,	4873 970	43 51	-10 49	54 00	41 41	33 16	35 03	3 97	DUEPACE	HORT ZONTAL	139	113







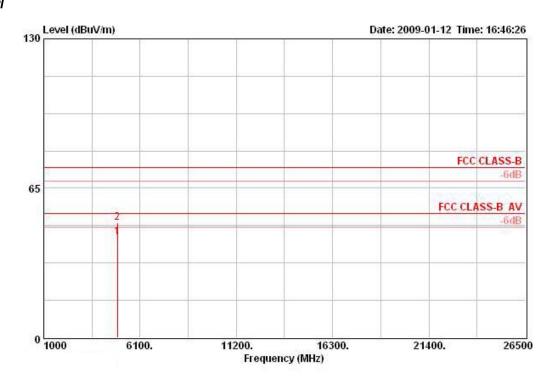
			0ver	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Level Limit		Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	B	-11	deg	cm
1	4873.830	52.69	-21.31	74.00	50.59	33.16	35.03	3.97	PEAK	VERTICAL	120	143
2 @	4873.970	48.18	-5.82	54.00	46.08	33.16	35.03	3.97	AVERAGE	VERTICAL	120	143

Report Format Version: 01 Page No. : 61 of 89
FCC ID: TX2-RTL8191SE Issued Date : Jan. 16, 2009



Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	Draft n MCS0 40MHz Ch 9 / Mode 3

Horizontal

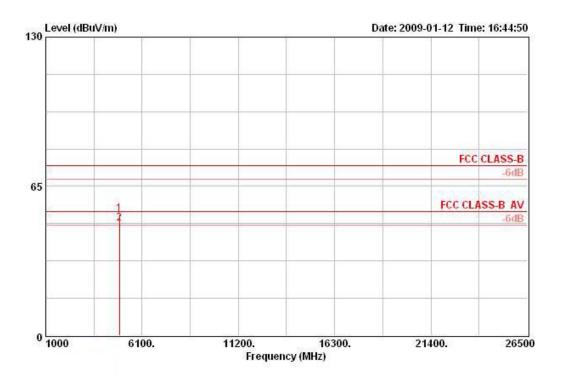


		Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
Mc	dBuV/m	dB	dBuV/m	dBuV	dB/m	ф	dB			deg -	cm.
4903.990	43.57	-10.43	54.00	41.43	33.19	35.02	3.97	AVERAGE	HORIZONTAL	141	103
4904.020	50.11	-23.89	74 00	47.97	33 19	35.02	3.97	PEAK	HORTZONTAL	141	103

: 62 of 89 Page No. FCC ID: TX2-RTL8191SE Issued Date : Jan. 16, 2009

1 2

Vertical



			0ver	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ф	dВ	-	_1	deg -	cm
1	4903.850	53.10	-20.90	74.00	50.96	33.19	35.02	3.97	PEAK	VERTICAL	138	103
2 @	4903.950	48.83	-5.17	54.00	46.69	33.19	35.02	3.97	AVERAGE	VERTICAL	138	103

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

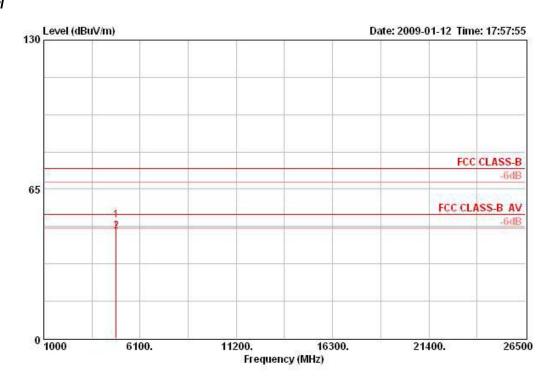
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Report Format Version: 01 Page No. : 63 of 89
FCC ID: TX2-RTL8191SE Issued Date : Jan. 16, 2009



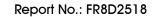
Temperature	25 ℃	Humidity	56%
Test Engineer	Alan Huang	Configurations	802.11b CH 1 / Mode 3

Horizontal

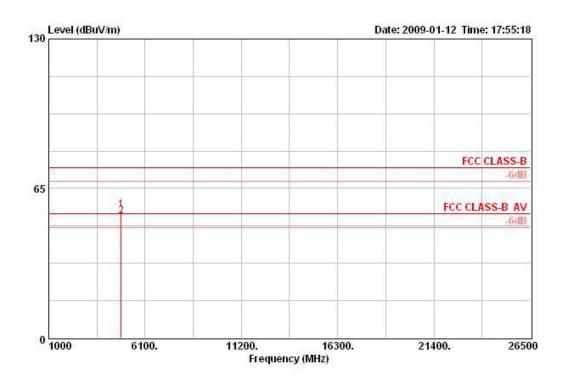


			Over	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	Mtz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	-11	deg -	cm
1	4823.660	51.58	-22.42	74.00	49.60	33.06	35.04	3.96	PEAK	HORIZONTAL	119	100
2 @	4823.970	46.50	-7.50	54.00	44.52	33.06	35.04	3.96	AVERAGE	HORIZONTAL	119	100

Report Format Version: 01 Page No. : 64 of 89
FCC ID: TX2-RTL8191SE Issued Date : Jan. 16, 2009





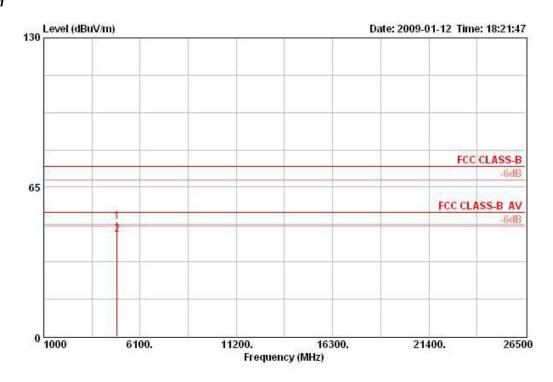


			0ver	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	- dB	dBuV/m	dBuV	dB/m	dB	dB	-		deg	cm
1	4823.980	55.72	-18.28	74.00	53.74	33.06	35.04	3.96	PEAK	VERTICAL	122	104
2 @	4823.990	52.89	-1.11	54.00	50.91	33.06	35.04	3.96	AVERAGE	VERTICAL	122	104



Temperature	25 ℃	Humidity	56%
Test Engineer	Alan Huang	Configurations	802.11b CH 6 / Mode 3

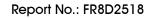
Horizontal



			Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ф	dB		_	deg -	cm
1	4873.960	50.04	-23.96	74.00	47.94	33.16	35.03	3.97	PEAK	HORIZONTAL	134	166
2	4873 970	44 53	-9 47	54 00	42 43	33 16	35 03	3 97	AVERAGE	HORT ZONTAL	134	166

 Report Format Version: 01
 Page No.
 : 66 of 89

 FCC ID: TX2-RTL8191SE
 Issued Date
 : Jan. 16, 2009



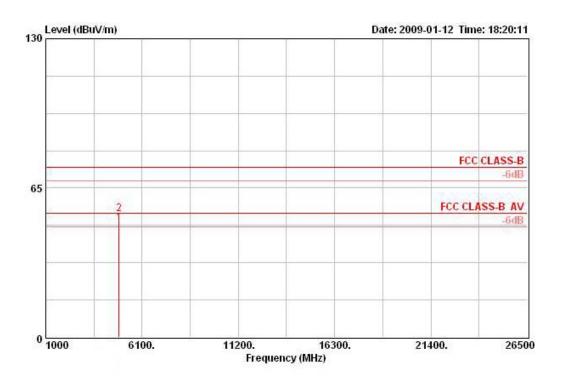
: 67 of 89

Issued Date : Jan. 16, 2009

Page No.



Vertical



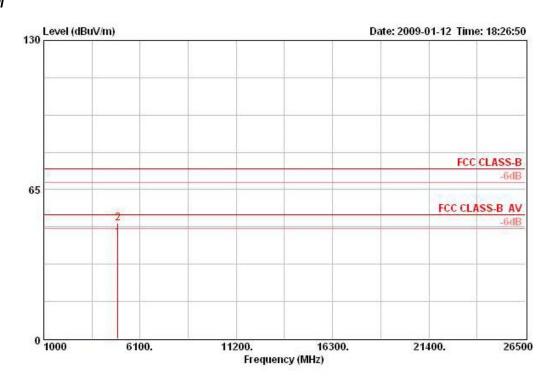
			0ver	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			deg	cm
1 @	4873.950	49.74	-4.26	54.00	47.65	33.16	35.03	3.97	AVERAGE	VERTICAL	113	101
2	4873 950	53 88	-20 12	74 00	51 78	33 16	35 03	3 97	PEAK	VERTICAL.	113	101



Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	802.11b CH 11 / Mode 3

Horizontal

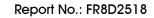
1 2



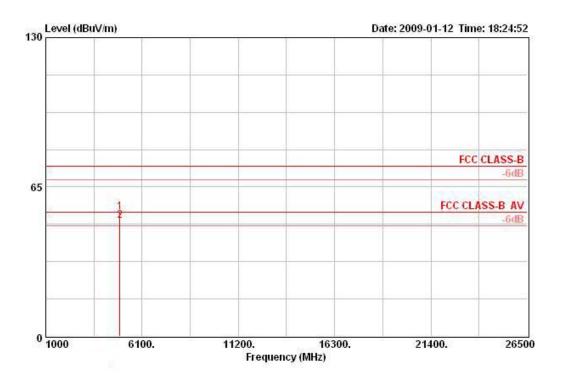
		Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	ф	dB			deg	cm
4923.970	44.13	-9.87	54.00	41.91	33.26	35.02	3.97	AVERAGE	HORIZONTAL	147	162
4924 080	50 27	-23 73	74 00	48 05	33 26	35 02	3 97	DEBE	HORT ZONTAL	147	162

 Report Format Version: 01
 Page No.
 : 68 of 89

 FCC ID: TX2-RTL8191SE
 Issued Date
 : Jan. 16, 2009







			Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
		dBuV/m		dBuV/m	dBuV	dB/m	dB	dB	-	_1	deg -	cm.
1	4923.950	53.93	-20.07	74.00	51.71	33.26	35.02	3.97	PEAK	VERTICAL	130	100
2 @	4923.970	50.25	-3.75	54.00	48.04	33.26	35.02	3.97	AVERAGE	VERTICAL	130	100

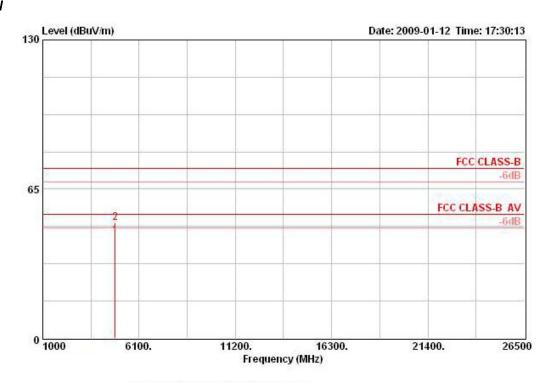
 Report Format Version: 01
 Page No.
 : 69 of 89

 FCC ID: TX2-RTL8191SE
 Issued Date
 : Jan. 16, 2009



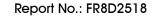
Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	802.11g CH 1 / Mode 3

Horizontal

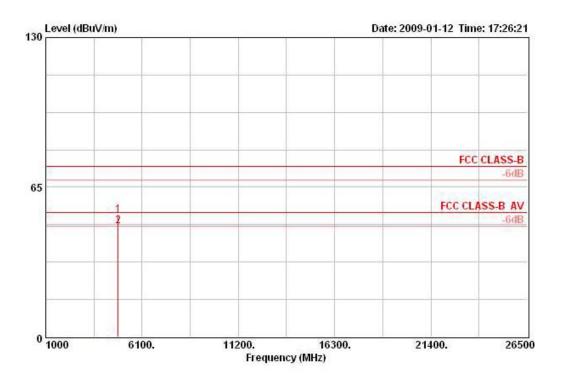


			Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	uV/m dBuV	dB/m	dB	dB	i —	-	deg _	cm.
1	4823.990	44.66	-9.34	54.00	42.68	33.06	35.04	3.96	AVERAGE	HORIZONTAL	135	104
2	4824.000	50.53	-23.47	74.00	48.55	33.06	35.04	3.96	PEAK	HORI ZONTAL	135	104

Report Format Version: 01 Page N
FCC ID: TX2-RTL8191SE Issued







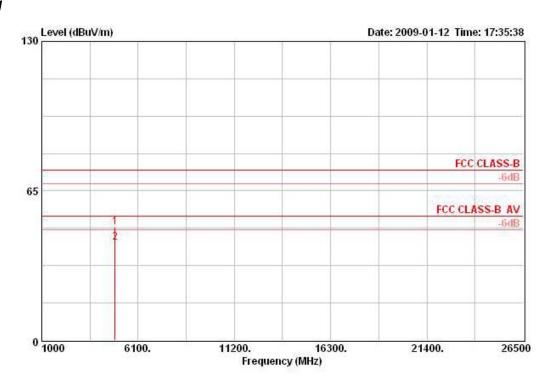
			Over	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-		deg	cm
1	4823.910	53.02	-20.98	74.00	51.04	33.06	35.04	3.96	PEAK	VERTICAL	118	103
2 @	4823.970	48.31	-5.69	54.00	46.33	33.06	35.04	3.96	AVERAGE	VERTICAL	118	103

Report Format Version: 01 Page No. : 71 of 89
FCC ID: TX2-RTL8191SE Issued Date : Jan. 16, 2009



Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	802.11g CH 6 / Mode 3

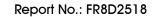
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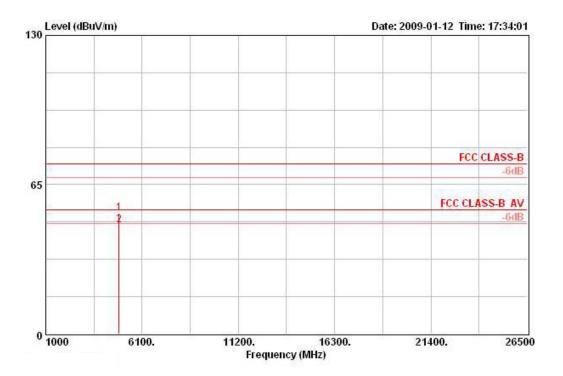
		Over	Limit	Read	Antenna	Preamp	Cable			Table	Ant
Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-	-	deg	cm
4873.950	49.23	-24.77	74.00	47.13	33.16	35.03	3.97	PEAK	HORIZONTAL	138	114
4873.990	42.47	-11.53	54.00	40.37	33.16	35.03	3.97	AVERAGE	HORI ZONTAL	138	114

 Report Format Version: 01
 Page No.
 : 72 of 89

 FCC ID: TX2-RTL8191SE
 Issued Date
 : Jan. 16, 2009







				Limit							Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	Mtz	MHz dB	dBuV/m	BuV/m dB	dBuV/m dBuV	dB/m	₫В	dB dB	dB		deg	cm.
1	4873.800	52.57	-21.43	74.00	50.47	33.16	35.03	3.97	PEAK	VERTICAL	119	142
2 @	4873.990	47.51	-6.49	54.00	45.41	33.16	35.03	3.97	AVERAGE	VERTICAL	119	142

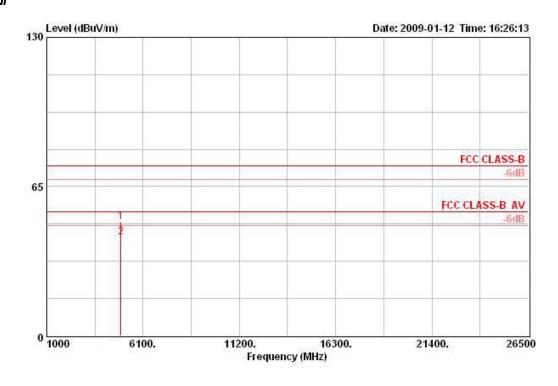
 Report Format Version: 01
 Page No.
 : 73 of 89

 FCC ID: TX2-RTL8191SE
 Issued Date
 : Jan. 16, 2009



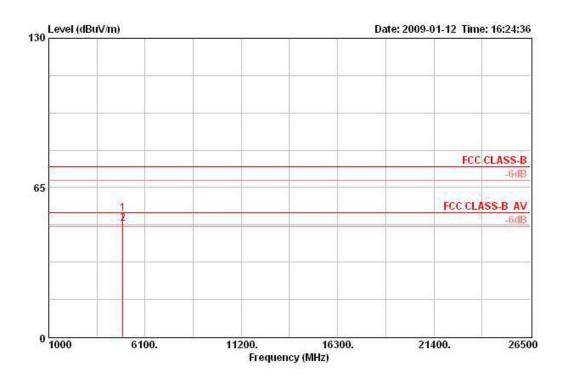
Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	802.11g CH 11 / Mode 3

Horizontal



		Level		Limit Line			Preamp Factor		Remark	Pol/Phase	Table Pos	Ant Pos
		MKz dBuV/m dB dBuV			dBuV	dB/m	ф	dB dB			deg	cm
1	4923.860	49.47	-24.53	74.00	47.25	33.26	35.02	3.97	PEAK	HORIZONTAL	140	113
2	4923.970	42.93	-11.07	54.00	40.71	33.26	35.02	3.97	AVERAGE	HORI ZONTAL	140	113

Vertical



			0ver	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	limit Line		Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	IBuV/m dB dBuV/m dBuV dB/m	dB	dB	deg	cm					
1	4923.910	53.71	-20.29	74.00	51.49	33.26	35.02	3.97	PEAK	VERTICAL	124	142
2 @	4923.970	49.11	-4.89	54.00	46.89	33.26	35.02	3.97	AVERAGE	VERTICAL	124	142

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Report Format Version: 01 Page No. : 75 of 89
FCC ID: TX2-RTL8191SE Issued Date : Jan. 16, 2009



4.6. Band Edge Emissions Measurement

4.6.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

·		
Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100 KHz /100 KHz for Peak

4.6.3. Test Procedures

- 1. The test procedure is the same as section 4.5.3, only the frequency range investigated is limited to 100MHz around bandedges.
- 2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

4.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.5.4.

4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

 Report Format Version: 01
 Page No.
 : 76 of 89

 FCC ID: TX2-RTL8191SE
 Issued Date
 : Jan. 16, 2009

4.6.7. Test Result of Band Edge and Fundamental Emissions

Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	Draft n MCS0 20MHz Ch 1, 6, 11 / Mode 3
Test Date	Jan. 12, 2009		

Channel 1

	Freq	Level	Over Limit	85,000			Preamp Factor			Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m		dBuV/m	dBuV	dB/m		dB	-	-17	deg -	cm
1 @	2390.000	48.27	-5.73	54.00	17.34	28.17	0.00	2.76	AVERAGE	HORIZONTAL	101	119
2	2390.000	63.66	-10.34	74.00	32.73	28.17	0.00	2.76	PEAK	HORIZONTAL	101	119
3 @	2408.800	103.83			72.84	28.21	0.00	2.77	PEAK	HORIZONTAL	101	119
4 @	2408.800	92.69			61.71	28.21	0.00	2.77	AVERAGE	HORIZONTAL	101	119

Item 3, 4 are the fundamental frequency at 2412 MHz

Channel 6

			0ver	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m		dBuV/m	dBuV	dB/m	dB	dB	-	_47	deg -	cm.
1	2389.400	56.32	-17.68	74.00	25.38	28.17	0.00	2.76	PEAK	HORIZONTAL	99	113
2	2390.000	44.36	-9.64	54.00	13.43	28.17	0.00	2.76	AVERAGE	HORI ZONTAL	99	113
3 @	2440.600	102.83			71.76	28.29	0.00	2.78	PEAK	HORI ZONTAL	99	113
4 @	2442.400	92.26			61.19	28.29	0.00	2.78	AVERAGE	HORI ZONTAL	99	113
5 @	2483.500	45.71	-8.29	54.00	14.52	28.38	0.00	2.81	AVERAGE	HORIZONTAL	99	113
6	2483.700	57.53	-16.47	74.00	26.34	28.38	0.00	2.81	PEAK	HORI ZONTAL	99	113

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 11

		Freq	Level	Over Limit				Preamp Factor		Remark	Pol/Phase	Table Pos	Ant Pos
		MHz	dBuV/m		dBuV/m	dBuV	dB/m		- dB		_112	deg	cm.
1 @	į	2467.400	93.55			62.42	28.33	0.00	2.80	AVERAGE	HORIZONTAL	98	109
2 @	į	2468.000	104.46			73.33	28.33	0.00	2.80	PEAK	HORI ZONTAL	98	109
3 @	Ĭ.	2483.500	53.17	-0.83	54.00	21.99	28.38	0.00	2.81	AVERAGE	HORI ZONTAL	98	109
4 @	į	2483.500	68.26	-5.74	74.00	37.08	28.38	0.00	2.81	PEAK	HORIZONTAL	98	109

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	Draft n MCS0 40MHz Ch 3, 6, 9 / Mode 3
Test Date	Jan. 12, 2009		

Channel 3

	Freq	Level	Over Limit				Preamp Factor		Remark	Pol/Phase	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		_17	deg -	cm
1	2388.800	64.23	-9.77	74.00	33.30	28.17	0.00	2.76	PEAK	HORIZONTAL	99	119
2 @	2390.000	51.10	-2.90	54.00	20.17	28.17	0.00	2.76	AVERAGE	HORI ZONTAL	99	119
3 @	2412.400	100.38			69.40	28.21	0.00	2.77	PEAK	HORI ZONTAL	99	119
4 @	2412.400	89.72			58.74	28.21	0.00	2.77	AVERAGE	HORIZONTAL	99	119

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

			0ver	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	<u>ав</u>	dB			deg	CM.
1	2389.200	59.10	-14.90	74.00	28.17	28.17	0.00	2.76	PEAK	HORIZONTAL	254	128
2 @	2390.000	45.58	-8.42	54.00	14.65	28.17	0.00	2.76	AVERAGE	HORI ZONTAL	254	128
3 @	2443.800	89.03			57.96	28.29	0.00	2.78	AVERAGE	HORI ZONTAL	254	128
4 @	2444.200	99.86			68.79	28.29	0.00	2.78	PEAK	HORI ZONTAL	254	128
5 @	2483.500	49.43	-4.57	54.00	18.24	28.38	0.00	2.81	AVERAGE	HORIZONTAL	254	128
6	2483.900	64.39	-9.61	74.00	33.20	28.38	0.00	2.81	PEAK	HORI ZONTAL	254	128

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 9

			0ver	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	<u>ав</u>	dBuV/m	dBuV	dB/m	ф	dB			deg	cm
1 @	2454.800	96.93			65.80	28.33	0.00	2.80	PEAK	HORI ZONTAL	274	109
2 @	2455.600	88.79			57.66	28.33	0.00	2.80	AVERAGE	HORI ZONTAL	274	109
3 @	2483.500	53.34	-0.66	54.00	22.15	28.38	0.00	2.81	AVERAGE	HORI ZONTAL	274	109
4 @	2485.100	66.81	-7.19	74.00	35.58	28.42	0.00	2.81	PEAK	HORI ZONTAL	274	109

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

 Report Format Version: 01
 Page No.
 : 78 of 89

 FCC ID: TX2-RTL8191SE
 Issued Date
 : Jan. 16, 2009



Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	802.11b CH 1, 6, 11 / Mode 3
Test Date	Jan. 12, 2009		

Channel 1

				0ver	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
		Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
		MHz	dBuV/m		dBuV/m	dBuV	dB/m	<u>ав</u>	dB	-		deg –	cm
1	. @	2386.400	47.00	-7.00	54.00	16.07	28.17	0.00	2.76	AVERAGE	HORIZONTAL	102	120
2		2387.200	58.12	-15.88	74.00	27.19	28.17	0.00	2.76	PEAK	HORI ZONTAL	102	120
3	@	2411.000	104.87			73.89	28.21	0.00	2.77	PEAK	HORI ZONTAL	102	120
4	@	2411.200	100.24			69.26	28.21	0.00	2.77	AVERAGE	HORI ZONTAL	102	120

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

			0ver	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m		dBuV/m	dBuV	dB/m	<u>ав</u>	dB			deg	CM.
1	2389.800	56.94	-17.06	74.00	26.01	28.17	0.00	2.76	PEAK	HORIZONTAL	97	117
2	2390.000	44.33	-9.67	54.00	13.40	28.17	0.00	2.76	AVERAGE	HORI ZONTAL	97	117
3 @	2437.800	99.62			68.55	28.29	0.00	2.78	AVERAGE	HORI ZONTAL	97	117
4 @	2438.200	104.48			73.41	28.29	0.00	2.78	PEAK	HORI ZONTAL	97	117
5	2483.500	57.72	-16.28	74.00	26.54	28.38	0.00	2.81	PEAK	HORI ZONTAL	97	117
6 @	2483.500	45.10	-8.90	54.00	13.91	28.38	0.00	2.81	AVERAGE	HORI ZONTAL	97	117

Item 3, 4 are the fundamental frequency at 2437MHz.

Channel 11

			0ver	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	dВ	dBuV/m	dBuV	dB/m	dВ	dB	-	_	deg	cm
1 @	2462.800	102.41			71.28	28.33	0.00	2.80	AVERAGE	HORIZONTAL	63	112
2 @	2463.200	107.08			75.95	28.33	0.00	2.80	PEAK	HORI ZONTAL	63	112
3	2488.100	61.87	-12.13	74.00	30.64	28.42	0.00	2.81	PEAK	HORI ZONTAL	63	112
4 @	2488.500	52.60	-1.40	54.00	21.37	28.42	0.00	2.81	AVERAGE	HORI ZONTAL	63	112

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	56%
Test Engineer	Alan Huang	Configurations	802.11g CH 1, 6, 11 / Mode 3
Test Date	Jan. 12, 2009		

Channel 1

			0ver	Limit	Readi	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	dВ	dBuV/m	dBuV	dB/m	dB	₫В	-	_	deg -	cm
1 @	2390.000	47.20	-6.80	54.00	16.27	28.17	0.00	2.76	AVERAGE	HORI ZONTAL	102	118
2	2390.000	60.51	-13.49	74.00	29.58	28.17	0.00	2.76	PEAK	HORI ZONTAL	102	118
3 @	2407.800	103.81			72.83	28.21	0.00	2.77	PEAK	HORI ZONTAL	102	118
4 @	2408.800	93.42			62.44	28.21	0.00	2.77	AVERAGE	HORI ZONTAL	102	118

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

			0ver	Limit	Read	Antenna	Preamp	Cable			Table	Ant
	Freq	Level	Limit	Line	Level	Factor	Factor	Loss	Remark	Pol/Phase	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	фВ	dB	-		deg	cm.
1	2388.800	56.57	-17.43	74.00	25.63	28.17	0.00	2.76	PEAK	HORIZONTAL	101	116
2	2390.000	44.43	-9.57	54.00	13.50	28.17	0.00	2.76	AVERAGE	HORI ZONTAL	101	116
3 @	2442.400	103.18			72.11	28.29	0.00	2.78	PEAK	HORI ZONTAL	101	116
4 @	2443.200	93.10			62.03	28.29	0.00	2.78	AVERAGE	HORI ZONTAL	101	116
5	2483.500	58.07	-15.93	74.00	26.88	28.38	0.00	2.81	PEAK	HORI ZONTAL	101	116
6 @	2483.500	45.60	-8.40	54.00	14.41	28.38	0.00	2.81	AVERAGE	HORI ZONTAL	101	116

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freg	Level	Over Limit	Limit Line			Preamp Factor	Cable Loss	Remark	Pol/Phase	Table Pos	Ant Pos
	4	dBuV/m		dBuV/m	dBuV	dB/m		dB	-		dea -	100
1 @	2466.800		200		74.59			100000 1000000	PEAK	HORIZONTAL	218	cm 106
2 @	2468.200				63.99		0.00		AVERAGE	HORIZONTAL	218	106
3 @	2483.500	53.63	-0.37	54.00	22.45	28.38	0.00	2.81	AVERAGE	HORIZONTAL	218	106
4 @	2483.500	71.37	-2.63	74.00	40.18	28.38	0.00	2.81	PEAK	HORI ZONTAL	218	100

Item 1, 2 are the fundamental frequency at 2462 MHz.

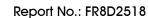
Note:

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

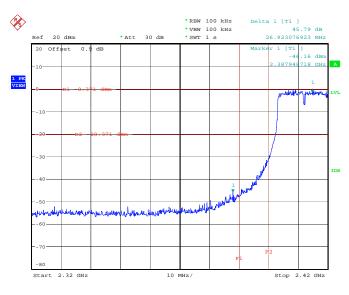
 Report Format Version: 01
 Page No.
 : 80 of 89

 FCC ID: TX2-RTL8191SE
 Issued Date
 : Jan. 16, 2009



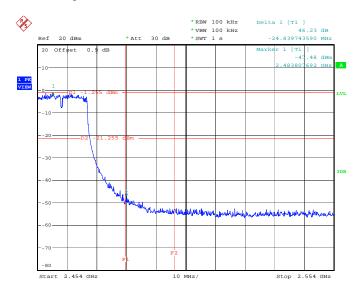


For Emission not in Restricted Band Low Band Edge Plot on Configuration Draft n MCS0 20MHz Ant. A / 2412 MHz

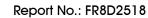


Date: 13.JAN.2009 14:57:43

High Band Edge Plot on Configuration Draft n MCSO 20MHz Ant. A $\!\!/$ 2462 MHz

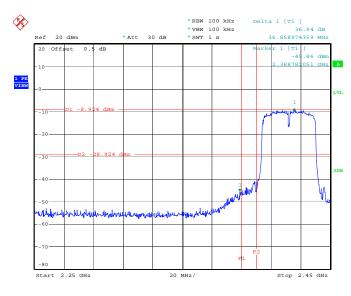


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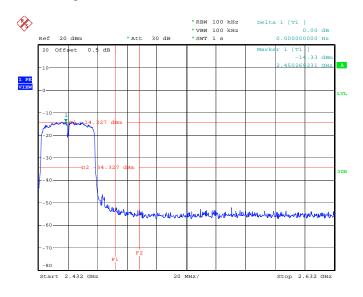


For Emission not in Restricted Band Low Band Edge Plot on Configuration Draft n MCS0 40MHz Ant. A / 2422 MHz

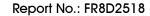


Date: 15.JAN.2009 13:48:38

High Band Edge Plot on Configuration Draft n MCSO 40MHz Ant. A $\!\!/$ 2452 MHz

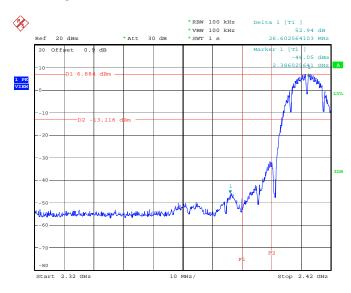


Date: 15.JAN.2009 13:54:46



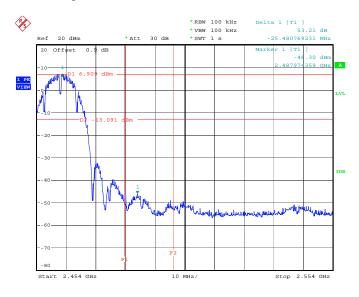


Low Band Edge Plot on Configuration IEEE 802.11b Ant. A / 2412 MHz

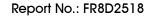


Date: 13.JAN.2009 13:08:11

High Band Edge Plot on Configuration IEEE 802.11b Ant. A / 2462 MHz

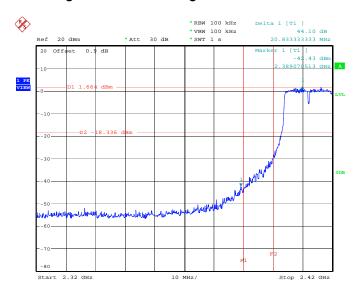


Date: 13.JAN.2009 14:02:46



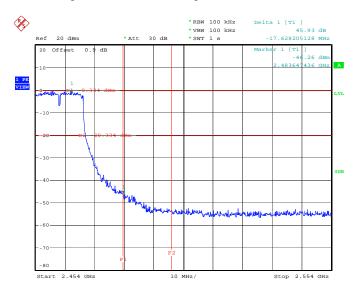


Low Band Edge Plot on Configuration IEEE 802.11g Ant. A / 2412 MHz



Date: 13.JAN.2009 14:14:36

High Band Edge Plot on Configuration IEEE 802.11g Ant. A / 2462 MHz



Date: 13.JAN.2009 13:16:05



4.7. Antenna Requirements

4.7.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.7.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

Report Format Version: 01 Page No. : 85 of 89
FCC ID: TX2-RTL8191SE Issued Date : Jan. 16, 2009



5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Mar. 03, 2008	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2008	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2008	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2008	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN ST08	21653	9kHz –30MHz	Mar. 27, 2008	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 14, 2008	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	COA9231A	18667	9 kHz - 2 GHz	Jan. 14, 2008	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	Jul. 21, 2008	Radiation (03CH03-HY)
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5 GHz - 40 GHz	Jan. 22, 2007*	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP30	100023	9 kHz - 30 GHz	Jan. 10, 2008	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	Jul 28, 2008*	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30 MHz – 1 GHz	Jul. 12, 2008	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	Apr. 04, 2008	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jan.18, 2008	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Dec. 01, 2008	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Dec. 01, 2008	Radiation (03CH03-HY)
Turn Table	HD	DS 420	420/650/00	0 – 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	HD	MA 240 240/560/00 1 m - 4 m		N/A	Radiation (03CH03-HY)	
Spectrum Analyzer	R&S	FSP30	100023	9kHz ~ 30GHz	Jan. 10, 2008	Conducted (TH01-HY)
Power Meter	R&S NRVS 100444 DC ~ 40GHz Jul.		Jul. 11, 2008	Conducted (TH01-HY)		
Power Sensor	R&S NRV-Z51 100458		DC ~ 30GHz	Jul. 11, 2008	Conducted (TH01-HY)	
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jul. 11, 2008	Conducted (TH01-HY)
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	May 30, 2008*	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 13, 2008	Conducted (TH01-HY)
Temp. and Humidity Chamber Giant Force		GTH-225-20-S	MAB0103-001	N/A	Jul. 18, 2008	Conducted (TH01-HY)

Report Format Version: 01
FCC ID: TX2-RTL8191SE

Page No. : 86 of 89 Issued Date : Jan. 16, 2009



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 01, 2008	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 01, 2008	Conducted (TH01-HY)
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Dec. 14, 2008	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 10, 2008	Conducted (TH01-HY)
Oscilloscope	Tektonix	TDS380	B016197	400MHz/ 2GS/s	Jun. 27, 2008	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is one year.

Note: *Calibration Interval of instruments listed above is two year.



6. TEST LOCATION

SHIJR	ADD	:	6FI., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
	TEL	:	886-2-2696-2468
	FAX	:	886-2-2696-2255
HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
	TEL	:	886-3-327-3456
	FAX	:	886-3-318-0055
LINKOU	ADD	:	No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
	TEL	:	886-2-2601-1640
	FAX	:	886-2-2601-1695
DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
	TEL	:	886-2-2631-4739
	FAX	:	886-2-2631-9740
JUNGHE	ADD	:	7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.
	TEL	:	886-2-8227-2020
	FAX	:	886-2-8227-2626
NEIHU	ADD	:	4FI., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C.
	TEL	:	886-2-2794-8886
	FAX	:	886-2-2794-9777
JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
	TEL	:	886-3-656-9065
	FAX	:	886-3-656-9085



7. TAF CERTIFICATE OF ACCREDITATION



Certificate No.: L1190-081212

Certificate of Accreditation

This is to certify that

Sporton International Inc.

EMC & Wireless Communications Laboratory

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2005

Accreditation Number : 1190

Originally Accredited : December 15, 2003

Effective Period : January 10, 2007 to January 09, 2010

Accredited Scope : Testing Field, see described in the Appendix

: Accreditation Program for Designated Testing Laboratory Specific Accreditation

Program for Commodities Inspection Accreditation Program for Telecommunication Equipment

Testing Laboratory

Accreditation Program for BSMI Mutual Recognition

Arrangment with Foreign Authorities

Jay-San Chen

President, Taiwan Accreditation Foundation

Date: December 12, 2008

P1, total 18 pages

The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix

Report Format Version: 01 : 89 of 89 Page No. FCC ID: TX2-RTL8191SE Issued Date : Jan. 16, 2009