

4.3. Radiated Emissions Measurement

4.3.1. Limit

The field strength of any emissions which appear outside of this band shall not exceed the general radiated emissions limits in Section 15.209(a)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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

4.3.2. Measuring Instruments and Setting

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

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

4.3.3. Test Procedures

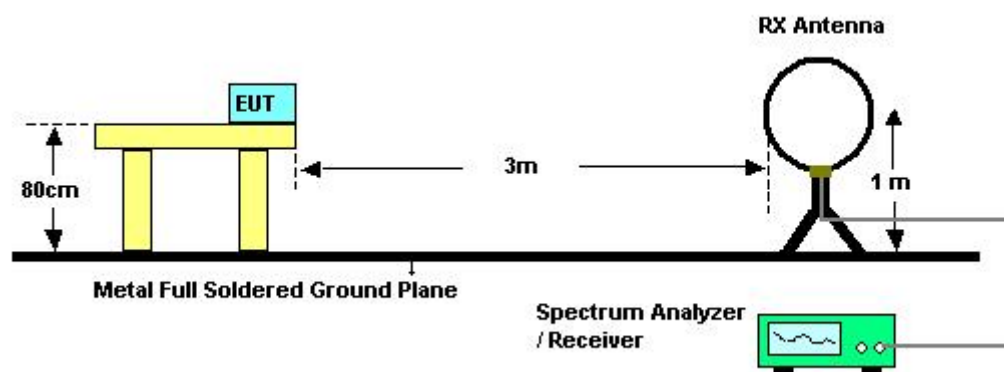
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical

polarization.

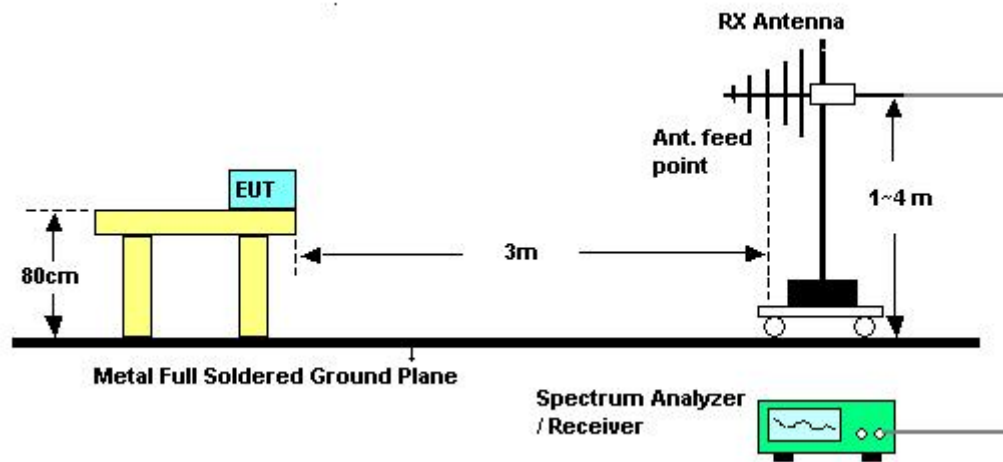
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

4.3.4. Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



4.3.5. Test Deviation

There is no deviation with the original standard.

4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.3.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	24℃	Humidity	64%
Test Engineer	Beck Wu	Configurations	Channel 51 / Ant. 1 / Ant. 1 + Ant. 2/ Antenna without bundle of cable / Antenna with bundle of cable

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

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

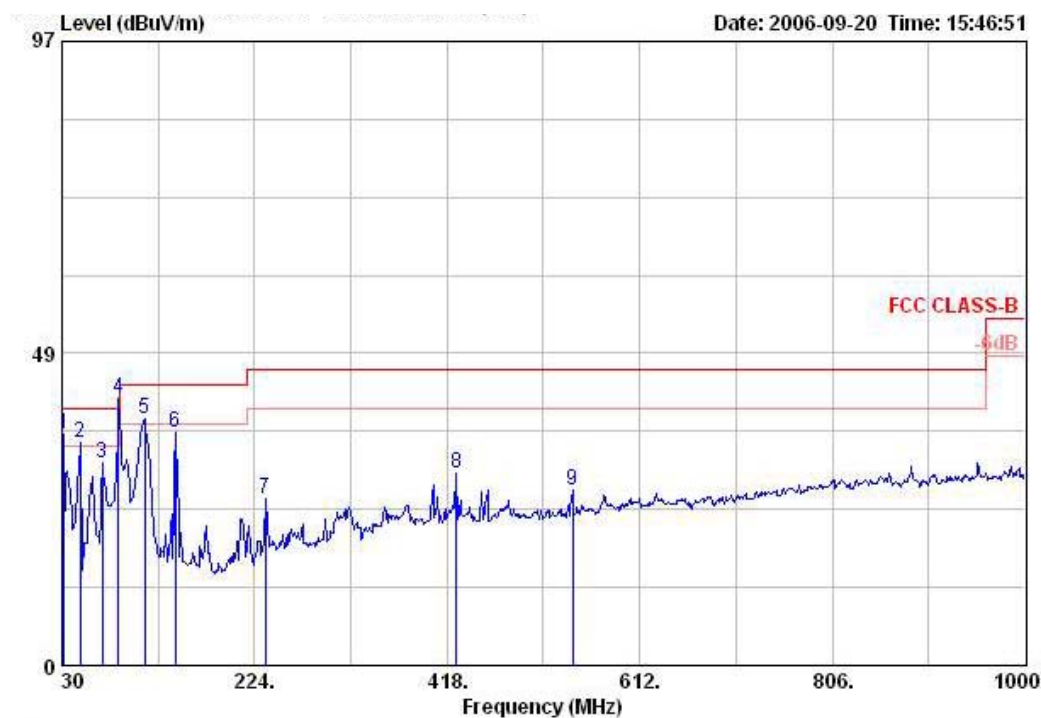
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

4.3.8. Results for Radiated Emissions (30MHz~10th Harmonic)

Temperature	24°C	Humidity	64%
Test Engineer	Beck Wu	Configurations	Channel 1 / Antenna without bundle of cable / Ant. 1

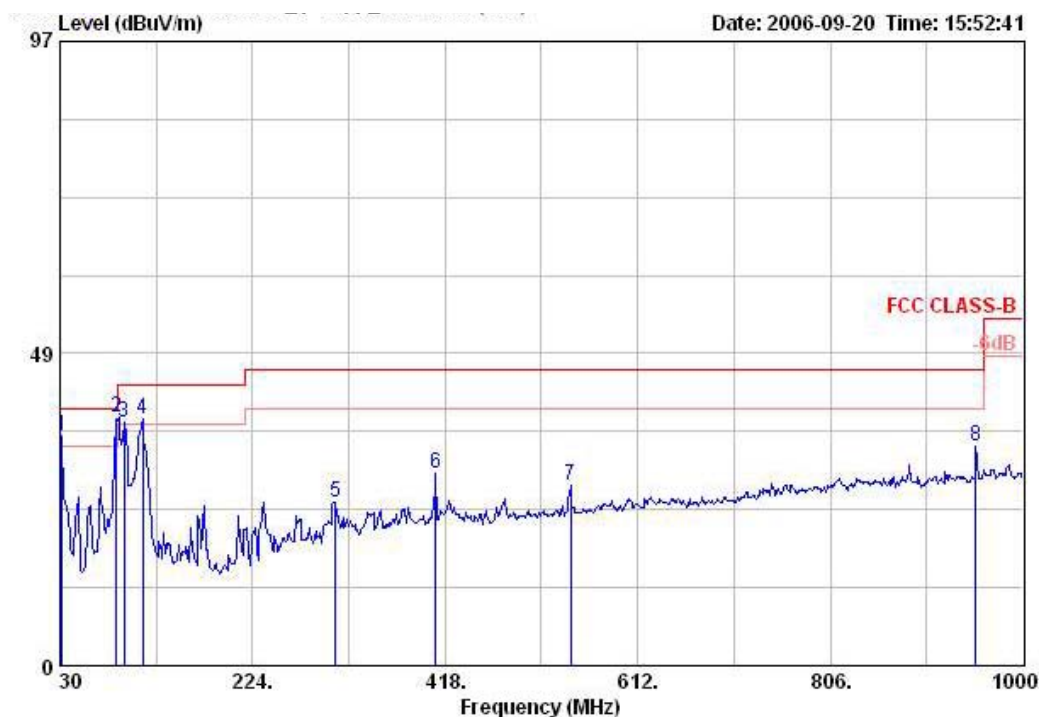
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 !	31.940	35.86	-4.14	40.00	43.06	18.96	0.32	26.49	Peak	400	0
2 !	48.430	34.58	-5.42	40.00	50.62	9.77	0.67	26.47	Peak	400	0
3	70.740	31.47	-8.53	40.00	50.33	6.88	0.39	26.14	Peak	400	0
4 @	87.230	41.60			58.37	8.82	0.54	26.13	Peak	400	0
5 !	113.420	38.31	-5.19	43.50	50.96	12.61	0.70	25.96	Peak	400	0
6	144.460	36.26	-7.24	43.50	49.89	11.64	0.53	25.80	Peak	400	0
7	234.670	25.84	-20.16	46.00	38.43	11.75	1.09	25.43	Peak	400	0
8	427.700	29.77	-16.23	46.00	37.14	16.89	1.50	25.76	Peak	400	0
9	544.100	27.24	-18.76	46.00	33.38	18.51	1.63	26.28	Peak	400	0

Item 4 is fundamental frequency.

Horizontal

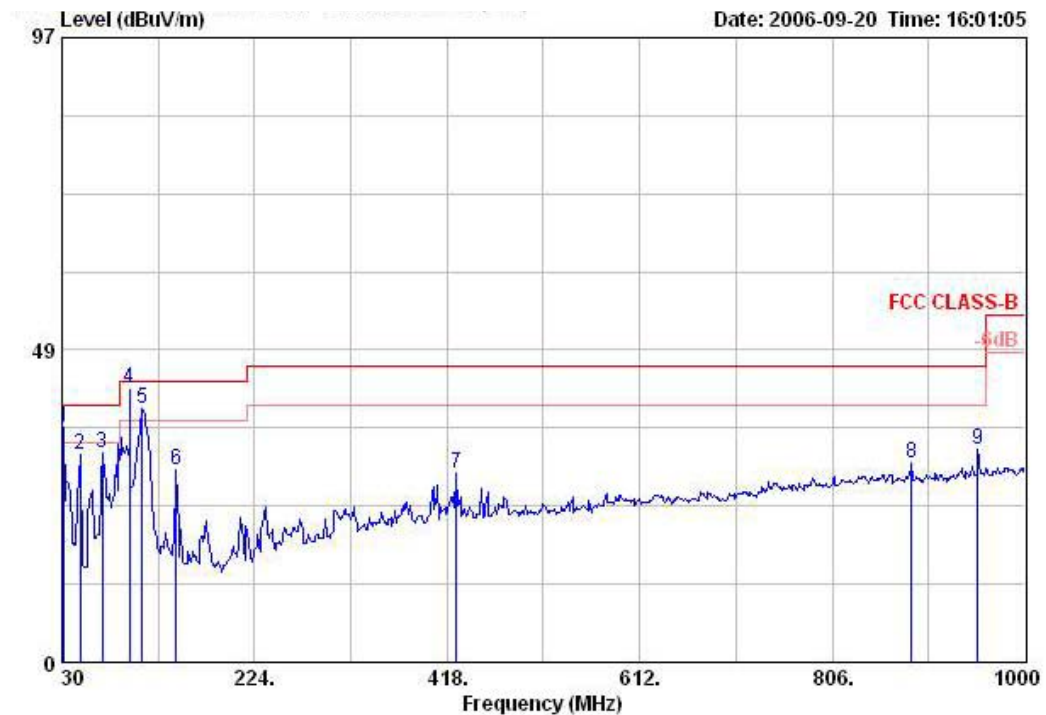


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 !	31.940	35.69	-4.31	40.00	42.90	18.96	0.32	26.49	Peak	100	0
2 !	87.230	38.59			55.36	8.82	0.54	26.13	Peak	100	0
3 !	94.990	37.71	-5.79	43.50	52.95	10.25	0.61	26.10	Peak	100	0
4 !	113.420	38.33	-5.17	43.50	50.98	12.61	0.70	25.96	Peak	100	0
5	307.420	25.37	-20.64	46.00	35.05	14.12	1.14	24.95	Peak	100	0
6	408.300	29.85	-16.15	46.00	37.26	16.62	1.58	25.61	Peak	100	0
7	544.100	28.07	-17.93	46.00	34.21	18.51	1.63	26.28	Peak	100	0
8	952.470	34.03	-11.97	46.00	34.43	22.02	3.06	25.47	Peak	100	0

Item 2 is fundamental frequency.

Temperature	24°C	Humidity	64%
Test Engineer	Beck Wu	Configurations	Channel 51 / Antenna without bundle of cable / Ant. 1

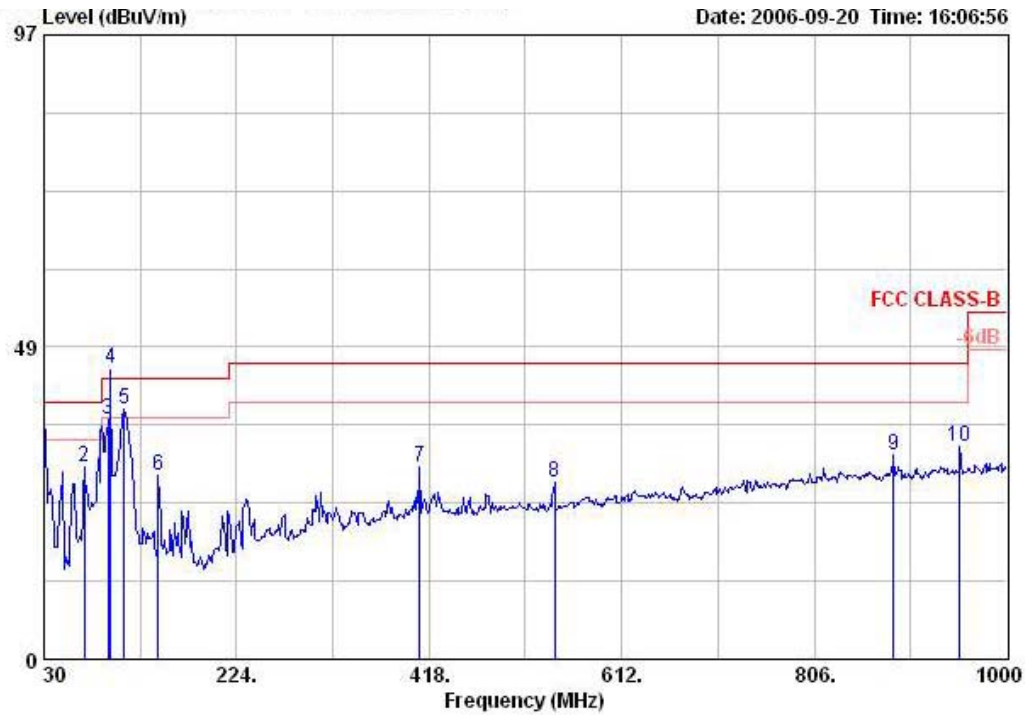
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 !	31.940	36.43	-3.57	40.00	43.64	18.96	0.32	26.49	Peak	400	0
2	48.430	32.24	-7.76	40.00	48.28	9.77	0.67	26.47	Peak	400	0
3	70.740	32.58	-7.42	40.00	51.45	6.88	0.39	26.14	Peak	400	0
4 !	97.610	42.45			57.20	10.82	0.42	26.00	Peak	400	0
5 !	110.510	39.40	-4.10	43.50	52.22	12.53	0.61	25.96	Peak	400	0
6	145.430	29.77	-13.73	43.50	43.45	11.56	0.54	25.79	Peak	400	0
7	427.700	29.40	-16.60	46.00	36.77	16.89	1.50	25.76	Peak	400	0
8	885.540	31.02	-14.98	46.00	32.04	21.47	2.65	25.14	Peak	400	0
9	952.470	33.05	-12.95	46.00	33.45	22.02	3.06	25.47	Peak	400	0

Item 4 is fundamental frequency.

Horizontal

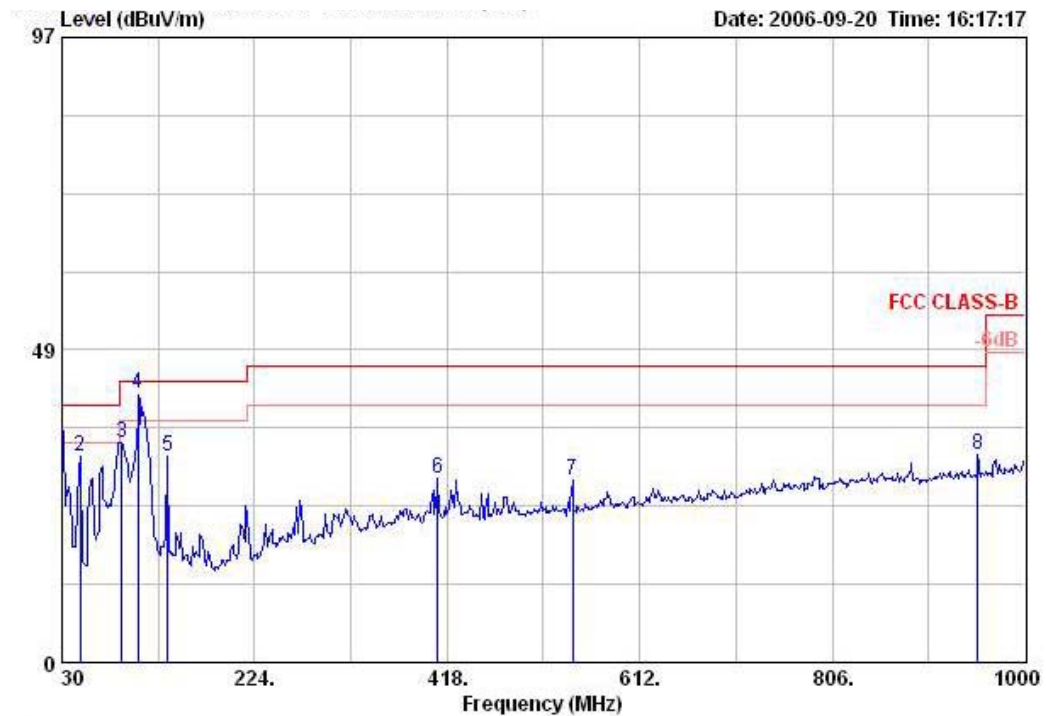


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 !	30.000	35.86	-4.14	40.00	41.90	20.20	0.44	26.68	Peak	100	0
2	70.740	29.95	-10.05	40.00	48.82	6.88	0.39	26.14	Peak	100	0
3	94.990	37.34	-6.16	43.50	52.58	10.25	0.61	26.10	Peak	100	0
4 @	97.450	45.25			60.00	10.82	0.42	26.00	Peak	100	0
5 !	110.510	38.87	-4.63	43.50	51.69	12.53	0.61	25.96	Peak	100	0
6	145.430	28.56	-14.94	43.50	42.25	11.56	0.54	25.79	Peak	100	0
7	408.300	29.81	-16.19	46.00	37.22	16.62	1.58	25.61	Peak	100	0
8	544.100	27.62	-18.38	46.00	33.76	18.51	1.63	26.28	Peak	100	0
9	885.540	31.85	-14.15	46.00	32.87	21.47	2.65	25.14	Peak	100	0
10	952.470	32.99	-13.01	46.00	33.38	22.02	3.06	25.47	Peak	100	0

Item 4 is fundamental frequency.

Temperature	24°C	Humidity	64%
Test Engineer	Beck Wu	Configurations	Channel 100 /Antenna without bundle of cable /Ant. 1

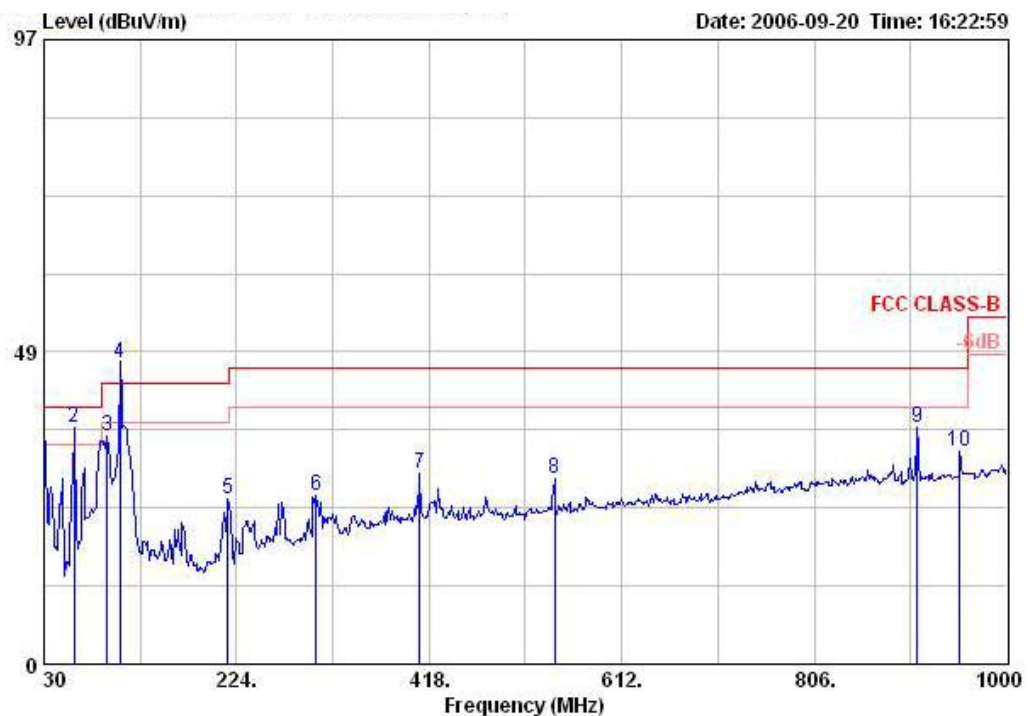
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 !	30.000	36.43	-3.57	40.00	42.47	20.20	0.44	26.68	Peak	400	0
2	48.430	31.89	-8.11	40.00	47.93	9.77	0.67	26.47	Peak	400	0
3	90.140	34.17	-9.33	43.50	50.40	9.30	0.59	26.12	Peak	400	0
4 !	106.630	41.76			55.10	12.11	0.50	25.95	Peak	400	0
5	136.700	32.09	-11.41	43.50	45.24	12.15	0.53	25.84	Peak	400	0
6	408.300	28.68	-17.32	46.00	36.09	16.62	1.58	25.61	Peak	400	0
7	544.100	28.25	-17.75	46.00	34.39	18.51	1.63	26.28	Peak	400	0
8	952.470	32.11	-13.89	46.00	32.51	22.02	3.06	25.47	Peak	400	0

Item 4 is fundamental frequency.

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 !	30.000	35.32	-4.68	40.00	41.36	20.20	0.44	26.68 Peak	100	94
2 !	60.070	36.79	-3.21	40.00	55.56	7.10	0.51	26.38 Peak	100	94
3	94.020	35.39	-8.11	43.50	50.83	10.06	0.61	26.10 Peak	100	94
4 @	106.630	46.66			60.00	12.11	0.50	25.95 Peak	100	94
5	215.270	25.61	-17.89	43.50	39.39	10.65	1.02	25.45 Peak	100	94
6	304.510	26.29	-19.71	46.00	36.06	14.03	1.14	24.94 Peak	100	94
7	408.300	29.70	-16.30	46.00	37.11	16.62	1.58	25.61 Peak	100	94
8	544.100	28.84	-17.16	46.00	34.98	18.51	1.63	26.28 Peak	100	94
9	909.790	36.86	-9.14	46.00	37.81	21.60	2.77	25.32 Peak	100	94
10	952.470	32.94	-13.06	46.00	33.33	22.02	3.06	25.47 Peak	100	94

Item 4 is fundamental frequency.

Note:

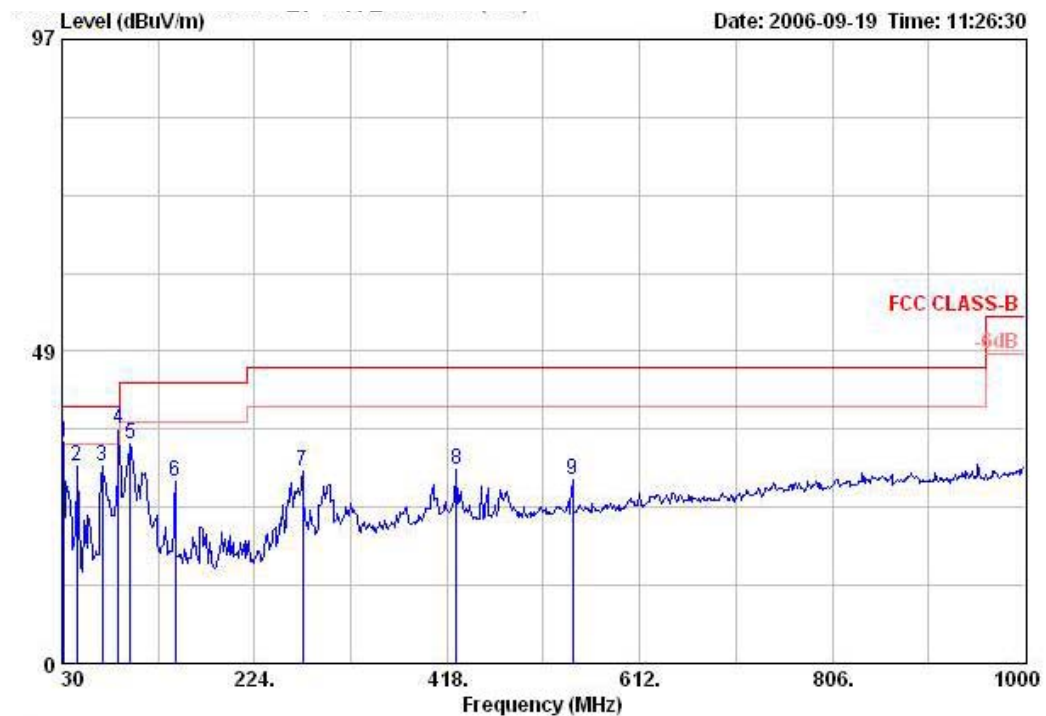
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

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

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

Temperature	24°C	Humidity	64%
Test Engineer	Beck Wu	Configurations	Channel 1 / Antenna with bundle of cable / Ant. 1

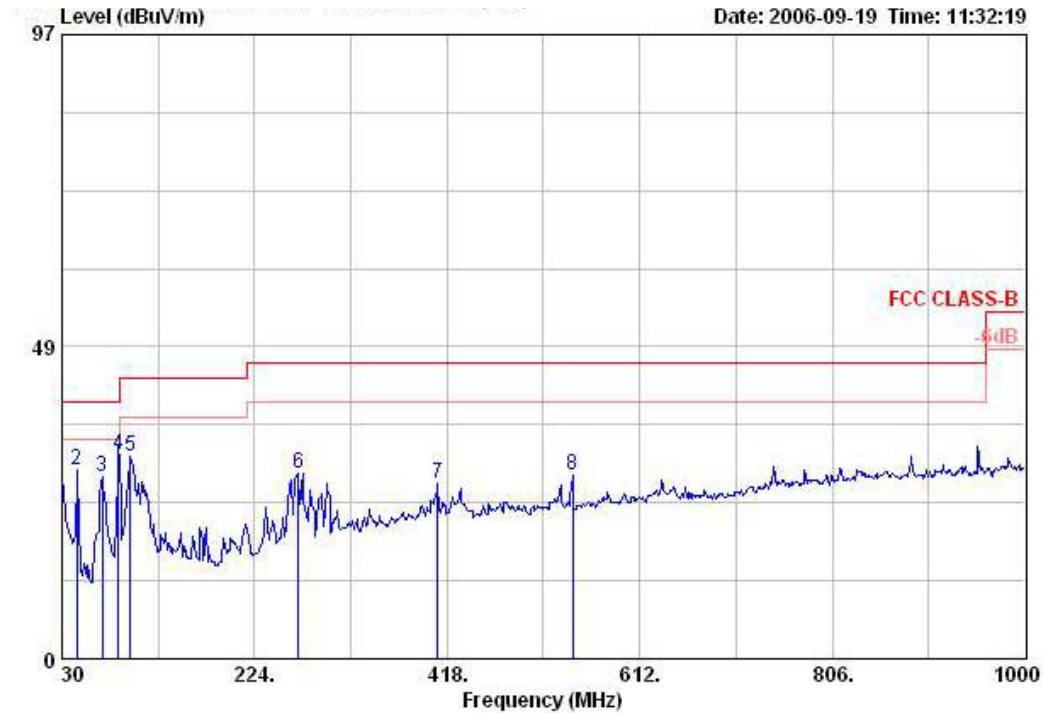
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 !	31.940	34.39	-5.61	40.00	41.59	18.96	0.32	26.49	Peak	400	0
2	44.550	30.55	-9.45	40.00	45.02	11.50	0.51	26.48	Peak	400	0
3	70.740	30.68	-9.32	40.00	49.55	6.88	0.39	26.14	Peak	400	0
4 @	87.230	36.53			53.30	8.82	0.54	26.13	Peak	400	0
5	98.870	34.16	-9.34	43.50	48.75	11.01	0.36	25.96	Peak	400	0
6	144.460	28.34	-15.16	43.50	41.97	11.64	0.53	25.80	Peak	400	0
7	272.500	29.92	-16.08	46.00	40.47	13.50	1.15	25.20	Peak	400	0
8	427.700	30.01	-15.99	46.00	37.38	16.89	1.50	25.76	Peak	400	0
9	544.100	28.42	-17.58	46.00	34.56	18.51	1.63	26.28	Peak	400	0

Item 4 is fundamental frequency.

Horizontal

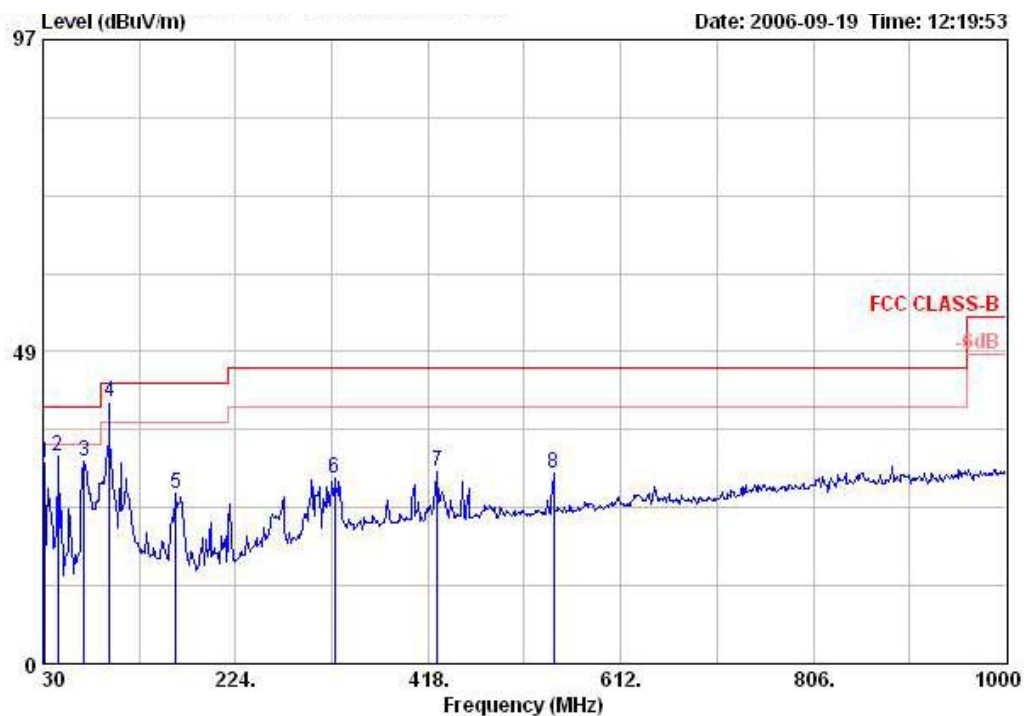


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	30.000	28.44	-11.56	40.00	34.48	20.20	0.44	26.68	Peak	100	0
2	44.550	29.27	-10.73	40.00	43.74	11.50	0.51	26.48	Peak	100	0
3	70.740	28.33	-11.67	40.00	47.20	6.88	0.39	26.14	Peak	100	0
4	87.230	31.78			48.55	8.82	0.54	26.13	Peak	100	0
5	98.870	31.45	-12.05	43.50	46.04	11.01	0.36	25.96	Peak	100	0
6	268.620	28.87	-17.13	46.00	39.42	13.55	1.15	25.24	Peak	100	0
7	408.300	27.11	-18.89	46.00	34.52	16.62	1.58	25.61	Peak	100	0
8	544.100	28.43	-17.57	46.00	34.57	18.51	1.63	26.28	Peak	100	0

Item 4 is fundamental frequency.

Temperature	24°C	Humidity	64%
Test Engineer	Beck Wu	Configurations	Channel 51 / Antenna with bundle of cable / Ant. 1

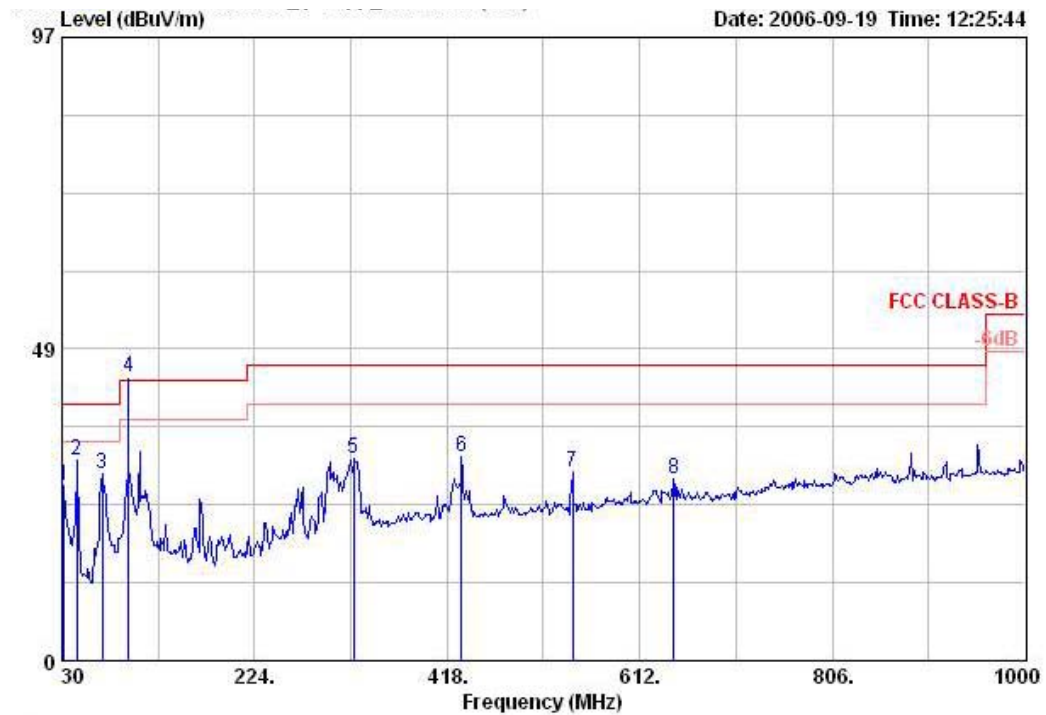
Vertical



	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	31.940	31.29	-8.71	40.00	38.50	18.96	0.32	26.49	Peak	400	0
2	44.550	32.21	-7.79	40.00	46.68	11.50	0.51	26.48	Peak	400	0
3	71.710	31.52	-8.48	40.00	50.33	6.96	0.39	26.16	Peak	400	0
4 @	97.330	40.57			55.49	10.63	0.49	26.03	Peak	400	0
5	163.860	26.31	-17.19	43.50	40.89	10.38	0.72	25.68	Peak	400	0
6	323.910	28.76	-17.24	46.00	38.00	14.57	1.15	24.96	Peak	400	0
7	427.700	29.78	-16.22	46.00	37.15	16.89	1.50	25.76	Peak	400	0
8	544.100	29.50	-16.50	46.00	35.64	18.51	1.63	26.28	Peak	400	0

Item 4 is fundamental frequency.

Horizontal

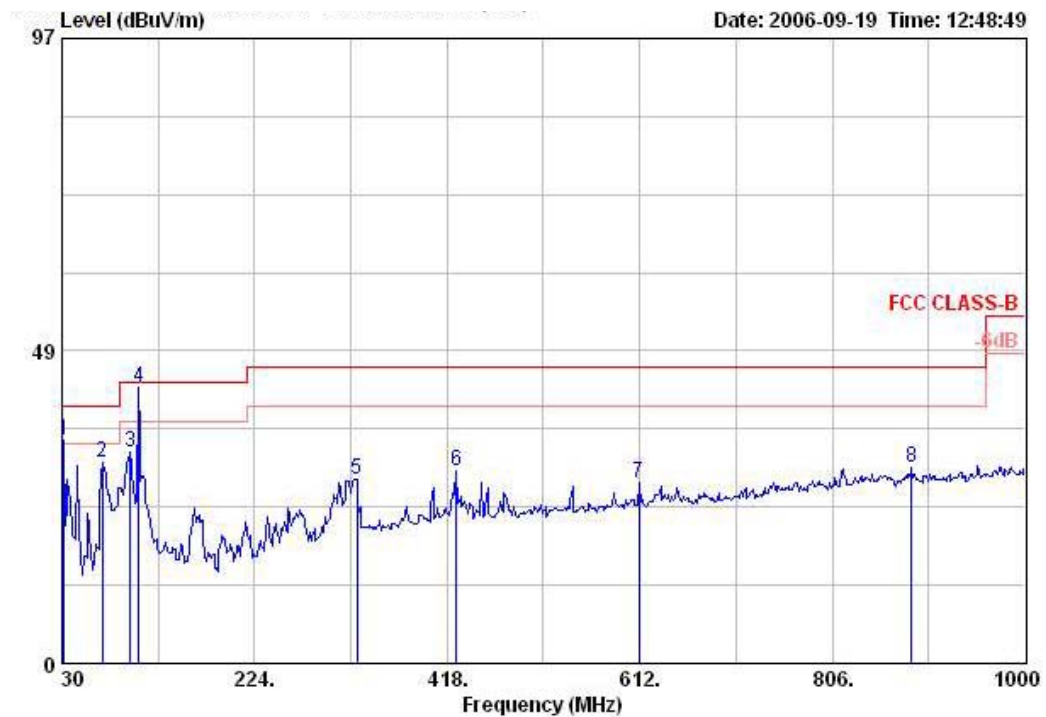


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	31.940	27.20	-12.80	40.00	34.41	18.96	0.32	26.49	Peak	100	0
2	44.550	31.24	-8.76	40.00	45.71	11.50	0.51	26.48	Peak	100	0
3	70.740	28.94	-11.06	40.00	47.81	6.88	0.39	26.14	Peak	100	0
4 @	97.330	44.18			59.10	10.63	0.49	26.03	Peak	100	0
5	323.910	31.37	-14.63	46.00	40.61	14.57	1.15	24.96	Peak	100	0
6	432.550	31.62	-14.38	46.00	38.98	16.96	1.49	25.80	Peak	100	0
7	544.100	29.44	-16.56	46.00	35.58	18.51	1.63	26.28	Peak	100	0
8	645.950	28.15	-17.85	46.00	32.65	19.55	2.14	26.20	Peak	100	0

Item 4 is fundamental frequency.

Temperature	24°C	Humidity	64%
Test Engineer	Beck Wu	Configurations	Channel 100 / Antenna with bundle of cable / Ant. 1

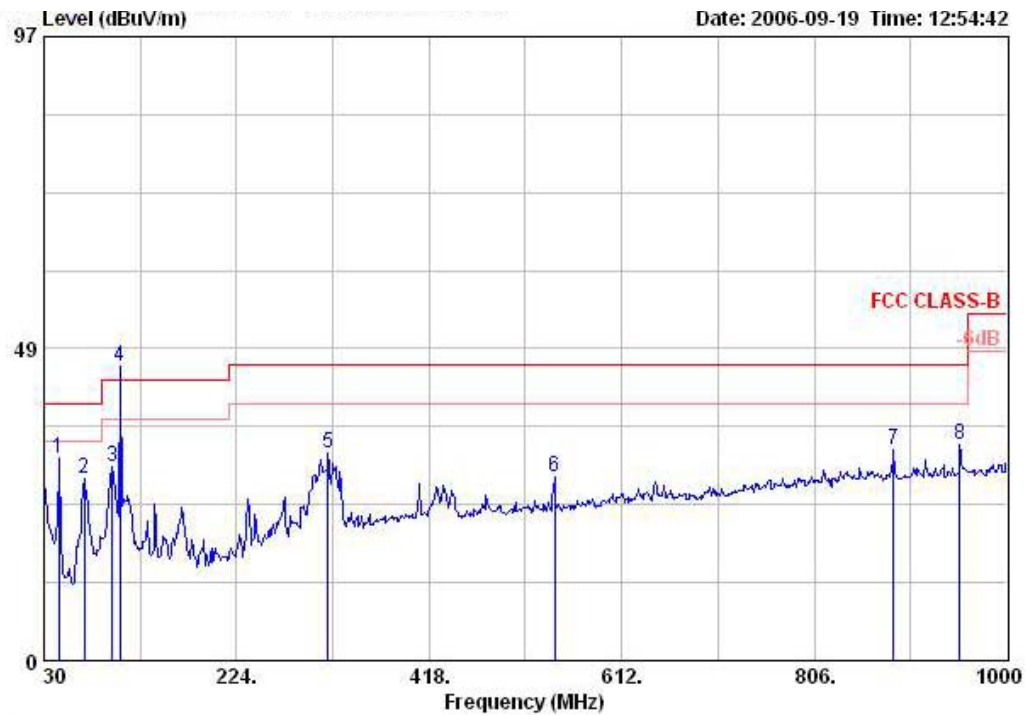
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 !	31.940	34.50	-5.50	40.00	41.70	18.96	0.32	26.49	Peak	400	0
2	70.740	31.31	-8.69	40.00	50.18	6.88	0.39	26.14	Peak	400	0
3	98.870	32.75	-10.75	43.50	47.34	11.01	0.36	25.96	Peak	400	0
4 @	107.600	42.81			55.99	12.24	0.53	25.95	Peak	400	0
5	326.820	28.62	-17.38	46.00	37.79	14.65	1.15	24.97	Peak	400	0
6	427.700	29.92	-16.08	46.00	37.29	16.89	1.50	25.76	Peak	400	0
7	611.030	27.97	-18.03	46.00	32.97	19.13	2.10	26.22	Peak	400	0
8	885.540	30.33	-15.67	46.00	31.35	21.47	2.65	25.14	Peak	400	0

Item 4 is fundamental frequency.

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor	Pos	Pos
					dBuV	dB/m	dB	dB	cm	deg
1	44.550	31.50	-8.50	40.00	45.97	11.50	0.51	26.48	100	0
2	70.740	28.18	-11.82	40.00	47.05	6.88	0.39	26.14	100	0
3	98.870	30.06	-13.44	43.50	44.65	11.01	0.36	25.96	100	0
4 @	106.630	45.78			59.12	12.11	0.50	25.95	100	0
5	316.150	32.35	-13.65	46.00	41.80	14.36	1.15	24.96	100	0
6	544.100	28.63	-17.37	46.00	34.77	18.51	1.63	26.28	100	0
7	885.540	32.67	-13.33	46.00	33.69	21.47	2.65	25.14	100	0
8	952.470	33.61	-12.39	46.00	34.00	22.02	3.06	25.47	100	0
								Remark		

Item 4 is fundamental frequency.

Note:

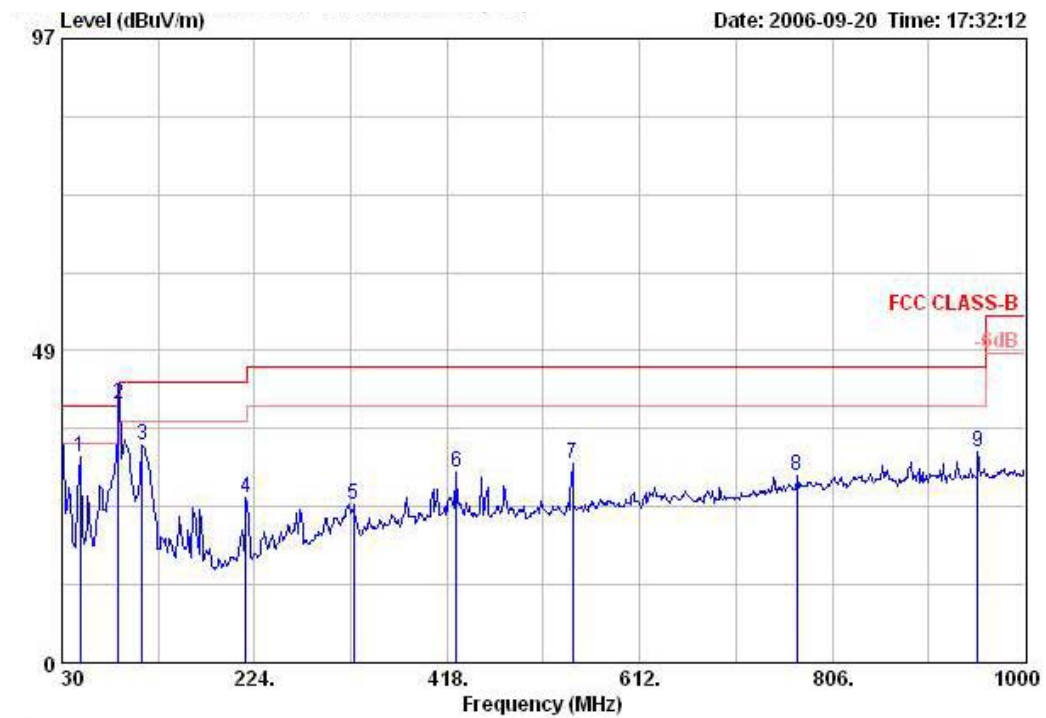
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

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

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

Temperature	24°C	Humidity	64%
Test Engineer	Beck Wu	Configurations	Channel 1 / Antenna without bundle of cable / Ant. 1 +Ant. 2

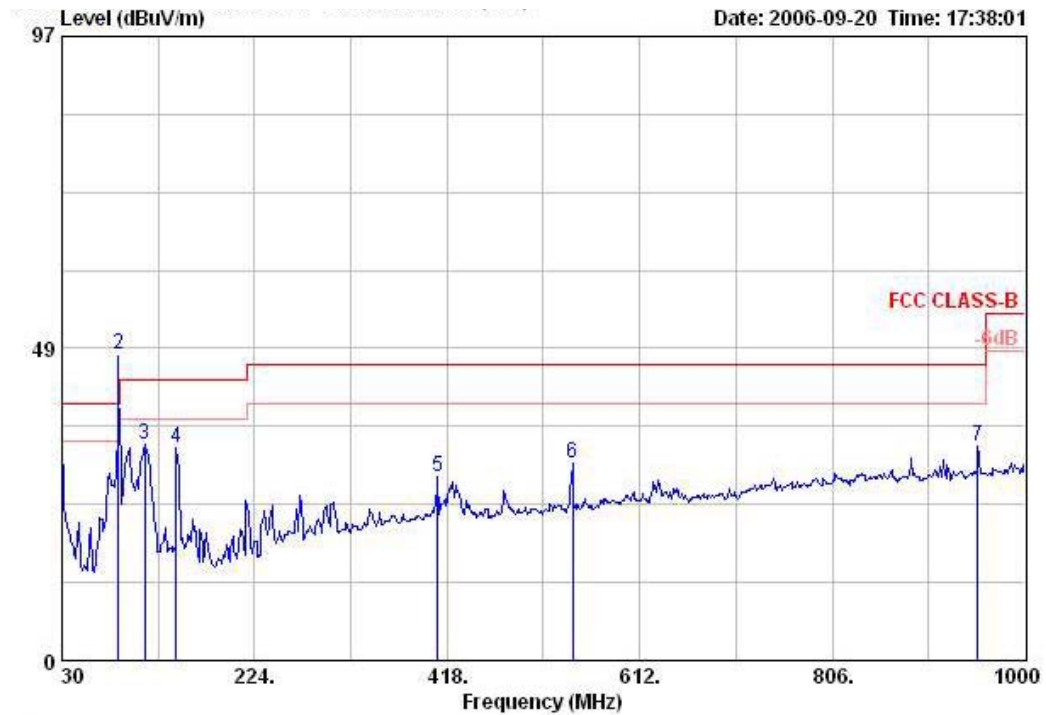
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	48.430	32.04	-7.96	40.00	48.07	9.77	0.67	26.47	Peak	400	0
2 @	87.230	40.22			56.99	8.82	0.54	26.13	Peak	400	0
3	110.510	33.83	-9.67	43.50	46.65	12.53	0.61	25.96	Peak	400	0
4	215.270	25.71	-17.79	43.50	39.49	10.65	1.02	25.45	Peak	400	0
5	323.910	24.66	-21.34	46.00	33.90	14.57	1.15	24.96	Peak	400	0
6	427.700	29.70	-16.30	46.00	37.07	16.89	1.50	25.76	Peak	400	0
7	544.100	30.83	-15.17	46.00	36.97	18.51	1.63	26.28	Peak	400	0
8	770.110	29.19	-16.81	46.00	31.46	20.34	2.49	25.11	Peak	400	0
9	952.470	32.84	-13.16	46.00	33.23	22.02	3.06	25.47	Peak	400	0

Item 2 is fundamental frequency.

Horizontal

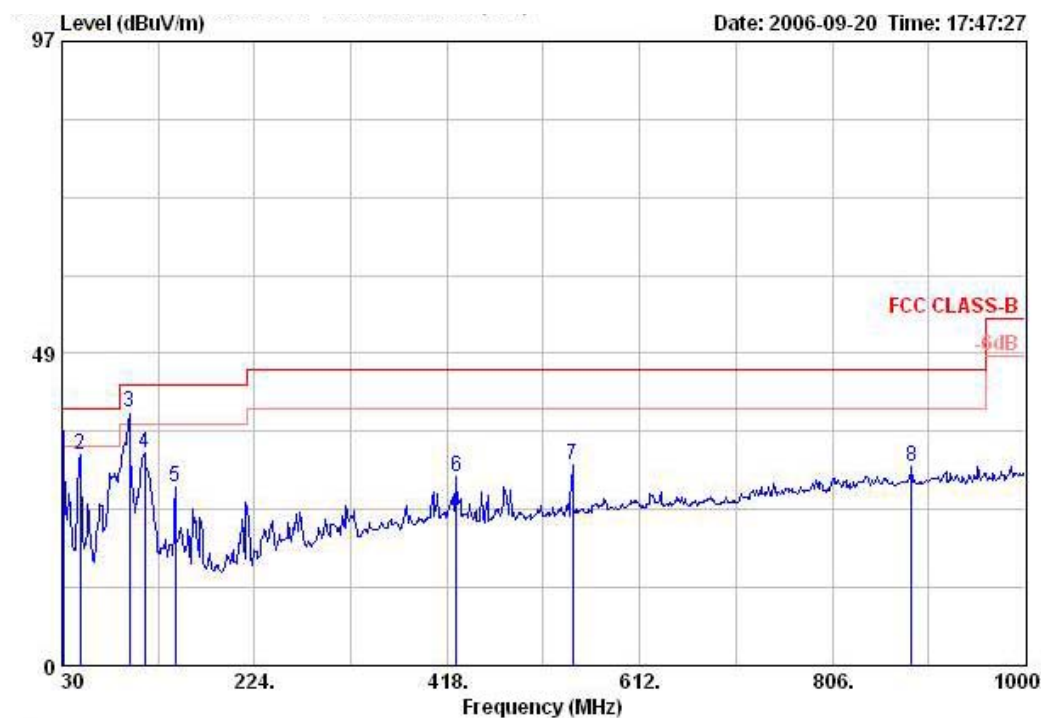


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	30.000	32.69	-7.31	40.00	38.73	20.20	0.44	26.68	Peak	100	0
2 @	87.230	47.50			64.27	8.82	0.54	26.13	Peak	100	0
3	113.420	33.51	-9.99	43.50	46.16	12.61	0.70	25.96	Peak	100	0
4	145.430	33.02	-10.48	43.50	46.71	11.56	0.54	25.79	Peak	100	0
5	408.300	28.46	-17.54	46.00	35.87	16.62	1.58	25.61	Peak	100	0
6	544.100	30.61	-15.39	46.00	36.75	18.51	1.63	26.28	Peak	100	0
7	952.470	33.42	-12.58	46.00	33.81	22.02	3.06	25.47	Peak	100	0

Item 2 is fundamental frequency.

Temperature	24°C	Humidity	64%
Test Engineer	Beck Wu	Configurations	Channel 51 / Antenna without bundle of cable / Ant. 1 +Ant. 2

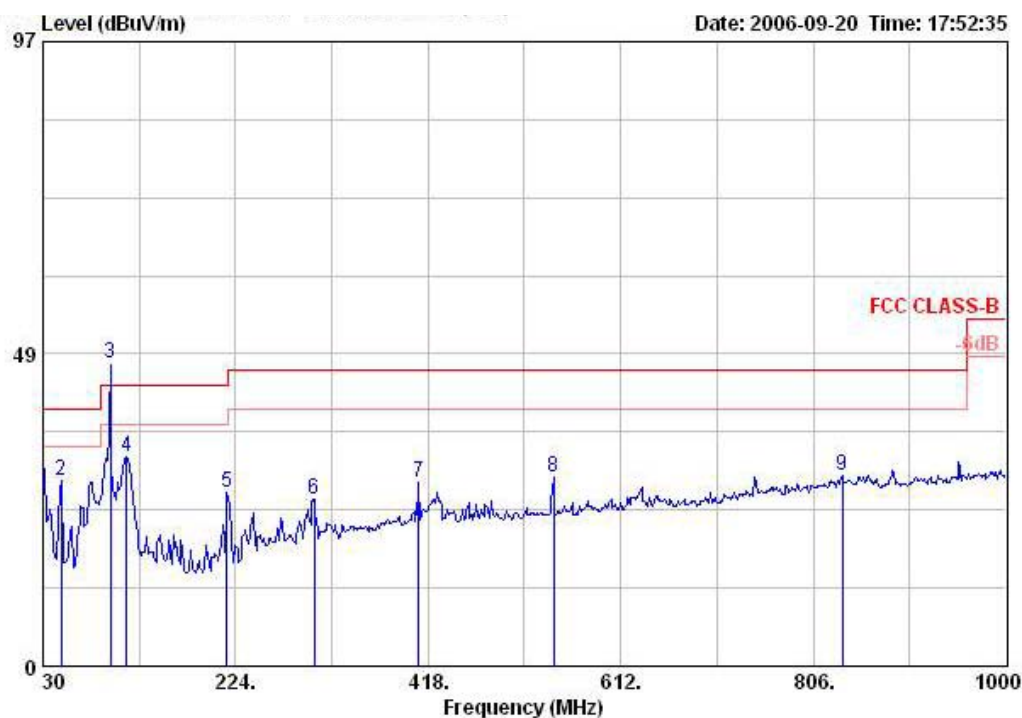
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 !	30.970	36.39	-3.61	40.00	43.01	19.58	0.38	26.59	Peak	400	0
2	48.430	32.76	-7.24	40.00	48.80	9.77	0.67	26.47	Peak	400	0
3 !	97.900	39.47			54.22	10.82	0.42	26.00	Peak	400	0
4	113.420	33.08	-10.42	43.50	45.74	12.61	0.70	25.96	Peak	400	0
5	144.460	27.78	-15.72	43.50	41.41	11.64	0.53	25.80	Peak	400	0
6	427.700	29.37	-16.63	46.00	36.74	16.89	1.50	25.76	Peak	400	0
7	544.100	31.19	-14.81	46.00	37.33	18.51	1.63	26.28	Peak	400	0
8	885.540	30.98	-15.02	46.00	32.00	21.47	2.65	25.14	Peak	400	0

Item 3 is fundamental frequency.

Horizontal

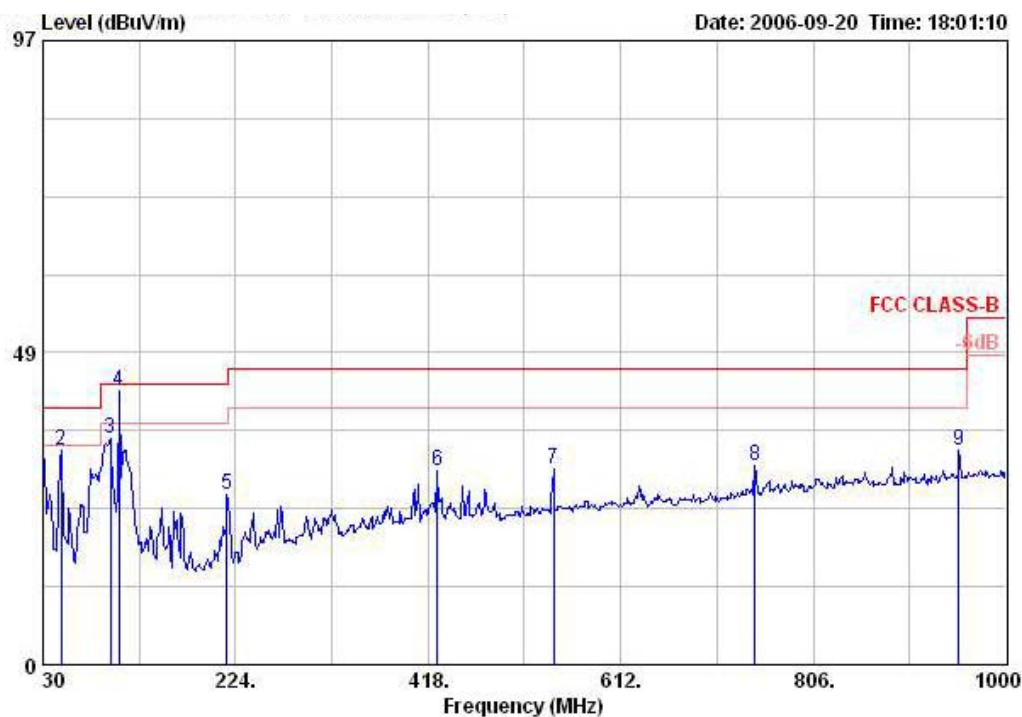


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	30.000	33.04	-6.96	40.00	39.08	20.20	0.44	26.68	Peak	100	0
2	48.430	28.86	-11.14	40.00	44.90	9.77	0.67	26.47	Peak	100	0
3 @	97.900	46.94			61.69	10.82	0.42	26.00	Peak	100	0
4	114.390	32.61	-10.89	43.50	45.21	12.64	0.73	25.97	Peak	100	0
5	215.270	26.87	-16.63	43.50	40.65	10.65	1.02	25.45	Peak	100	0
6	303.540	25.82	-20.18	46.00	35.61	14.01	1.14	24.94	Peak	100	0
7	408.300	28.46	-17.54	46.00	35.87	16.62	1.58	25.61	Peak	100	0
8	544.100	29.35	-16.65	46.00	35.49	18.51	1.63	26.28	Peak	100	0
9	835.100	29.72	-16.28	46.00	30.93	21.19	2.52	24.92	Peak	100	0

Item 3 is fundamental frequency.

Temperature	24°C	Humidity	64%
Test Engineer	Beck Wu	Configurations	Channel 100 / Antenna without bundle of cable / Ant. 1+Ant. 2

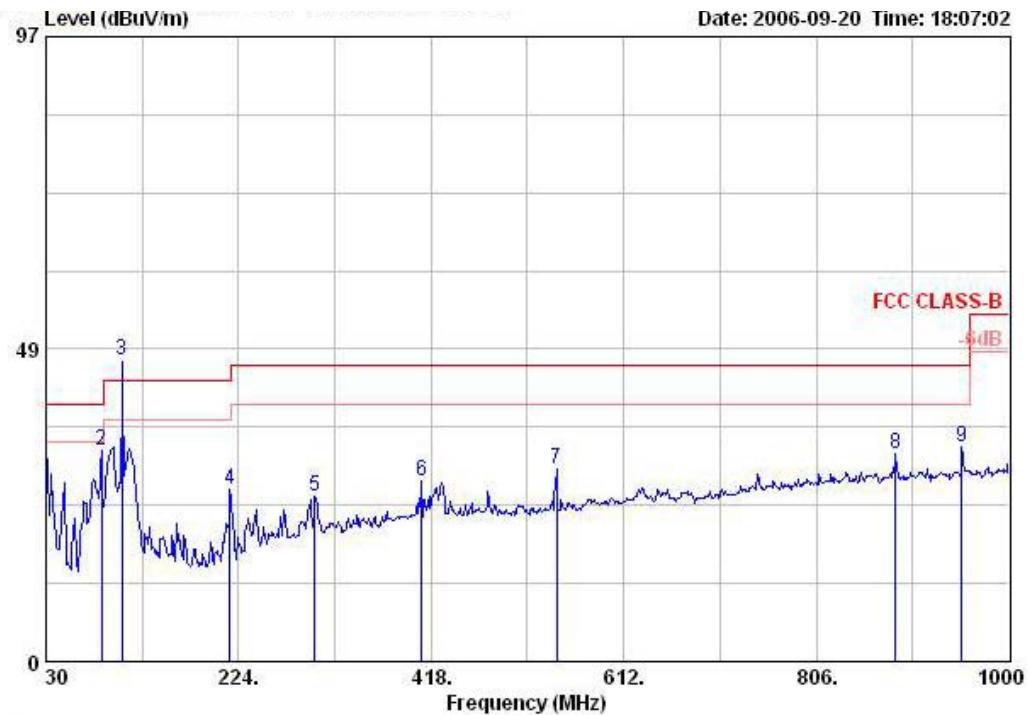
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 !	30.000	34.75	-5.25	40.00	40.79	20.20	0.44	26.68	Peak	400	0
2	48.430	33.30	-6.70	40.00	49.34	9.77	0.67	26.47	Peak	400	0
3	97.900	35.26	-8.24	43.50	50.02	10.82	0.42	26.00	Peak	400	0
4 !	106.630	42.46			55.80	12.11	0.50	25.95	Peak	400	0
5	215.270	26.55	-16.95	43.50	40.33	10.65	1.02	25.45	Peak	400	0
6	427.700	30.12	-15.88	46.00	37.48	16.89	1.50	25.76	Peak	400	0
7	544.100	30.29	-15.71	46.00	36.43	18.51	1.63	26.28	Peak	400	0
8	746.830	30.84	-15.16	46.00	33.41	20.08	2.46	25.10	Peak	400	0
9	952.470	33.28	-12.72	46.00	33.68	22.02	3.06	25.47	Peak	400	0

Item 4 is fundamental frequency.

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	30.000	33.81	-6.19	40.00	39.85	20.20	0.44	26.68	Peak	100	0
2	86.260	32.90	-7.10	40.00	49.85	8.66	0.52	26.13	Peak	100	0
3 @	106.630	46.66			60.00	12.11	0.50	25.95	Peak	100	0
4	215.270	26.63	-16.87	43.50	40.41	10.65	1.02	25.45	Peak	100	0
5	300.630	25.65	-20.35	46.00	35.52	13.93	1.14	24.94	Peak	100	0
6	408.300	27.93	-18.07	46.00	35.34	16.62	1.58	25.61	Peak	100	0
7	544.100	29.87	-16.13	46.00	36.01	18.51	1.63	26.28	Peak	100	0
8	885.540	32.11	-13.89	46.00	33.14	21.47	2.65	25.14	Peak	100	0
9	952.470	33.27	-12.73	46.00	33.66	22.02	3.06	25.47	Peak	100	0

Item 3 is fundamental frequency.

Note:

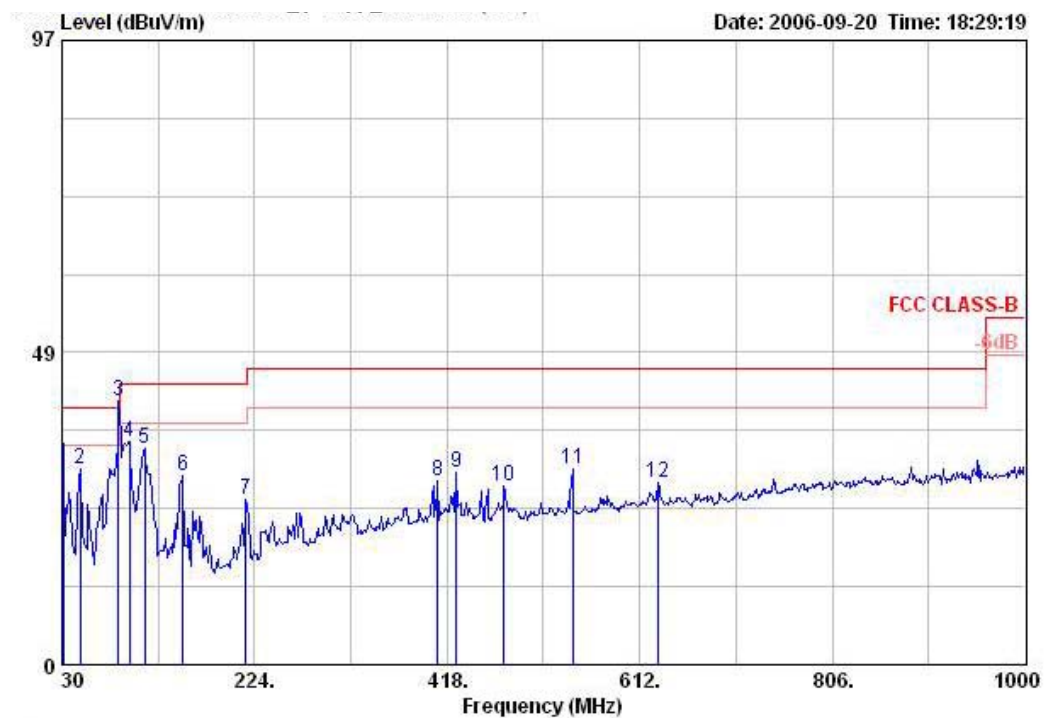
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

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

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

Temperature	24°C	Humidity	64%
Test Engineer	Beck Wu	Configurations	Channel 1 / Antenna with bundle of cable / Ant. 1+Ant. 2

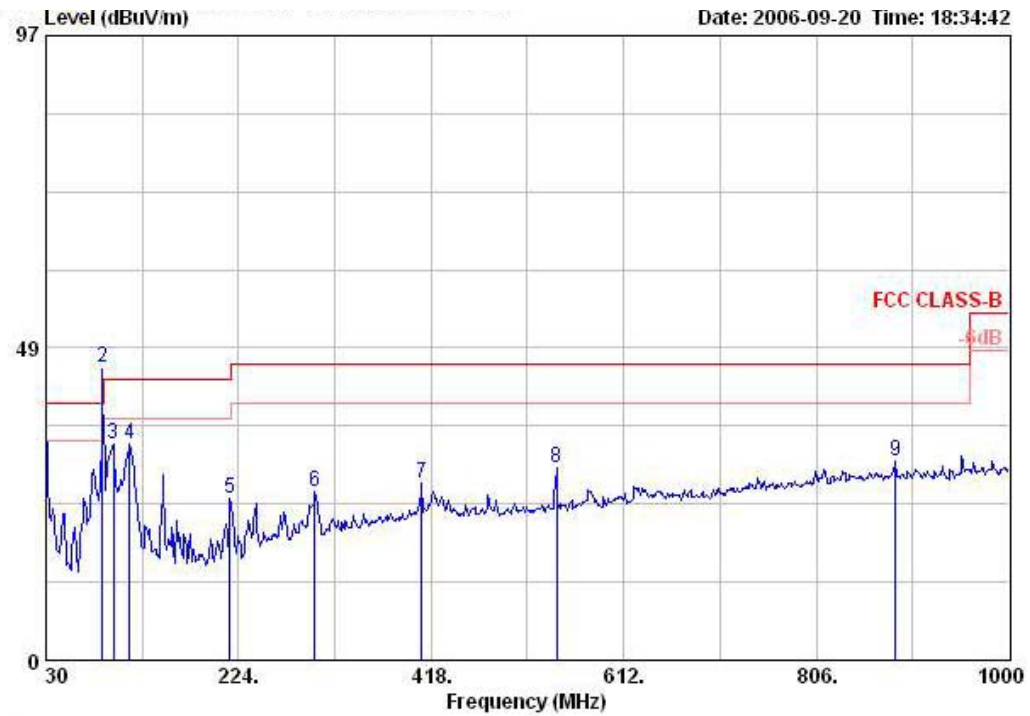
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 !	30.970	34.34	-5.66	40.00	40.96	19.58	0.38	26.59	Peak	400	0
2	48.430	30.42	-9.58	40.00	46.45	9.77	0.67	26.47	Peak	400	0
3 @	87.230	41.03			57.80	8.82	0.54	26.13	Peak	400	0
4	97.900	34.68	-8.82	43.50	49.43	10.82	0.42	26.00	Peak	400	0
5	113.420	33.66	-9.84	43.50	46.32	12.61	0.70	25.96	Peak	400	0
6	152.220	29.29	-14.21	43.50	43.38	11.06	0.63	25.77	Peak	400	0
7	215.270	25.74	-17.76	43.50	39.52	10.65	1.02	25.45	Peak	400	0
8	408.300	28.42	-17.58	46.00	35.83	16.62	1.58	25.61	Peak	400	0
9	427.700	29.73	-16.27	46.00	37.10	16.89	1.50	25.76	Peak	400	0
10	475.230	27.72	-18.28	46.00	34.75	17.50	1.62	26.15	Peak	400	0
11	544.100	30.52	-15.48	46.00	36.66	18.51	1.63	26.28	Peak	400	0
12	630.430	28.24	-17.76	46.00	32.97	19.36	2.12	26.21	Peak	400	0

Item 3 is fundamental frequency.

Horizontal

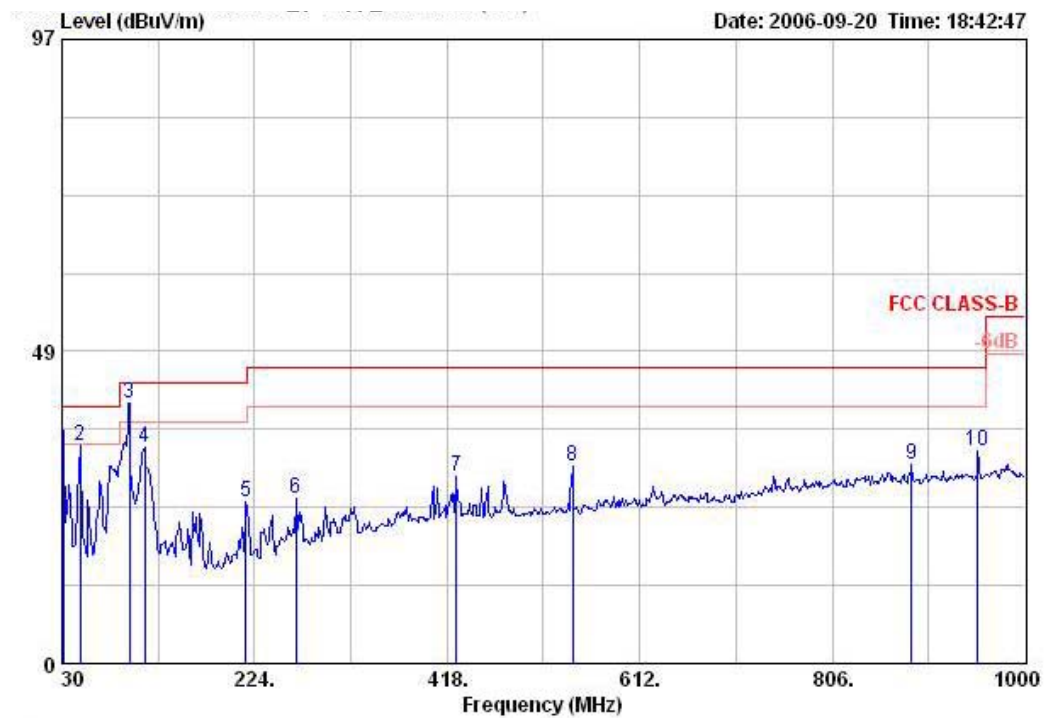


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 !	30.000	34.87	-5.13	40.00	40.91	20.20	0.44	26.68	Peak	100	305
2 @	87.230	45.38			62.15	8.82	0.54	26.13	Peak	100	305
3	97.900	33.58	-9.92	43.50	48.33	10.82	0.42	26.00	Peak	100	305
4	114.390	33.48	-10.02	43.50	46.08	12.64	0.73	25.97	Peak	100	305
5	215.270	25.17	-18.33	43.50	38.95	10.65	1.02	25.45	Peak	100	305
6	300.630	26.14	-19.86	46.00	36.01	13.93	1.14	24.94	Peak	100	305
7	408.300	27.60	-18.40	46.00	35.01	16.62	1.58	25.61	Peak	100	305
8	544.100	29.83	-16.17	46.00	35.97	18.51	1.63	26.28	Peak	100	305
9	885.540	31.03	-14.97	46.00	32.05	21.47	2.65	25.14	Peak	100	305

Item 2 is fundamental frequency.

Temperature	24°C	Humidity	64%
Test Engineer	Beck Wu	Configurations	Channel 51 / Antenna with bundle of cable / Ant. 1 +Ant. 2

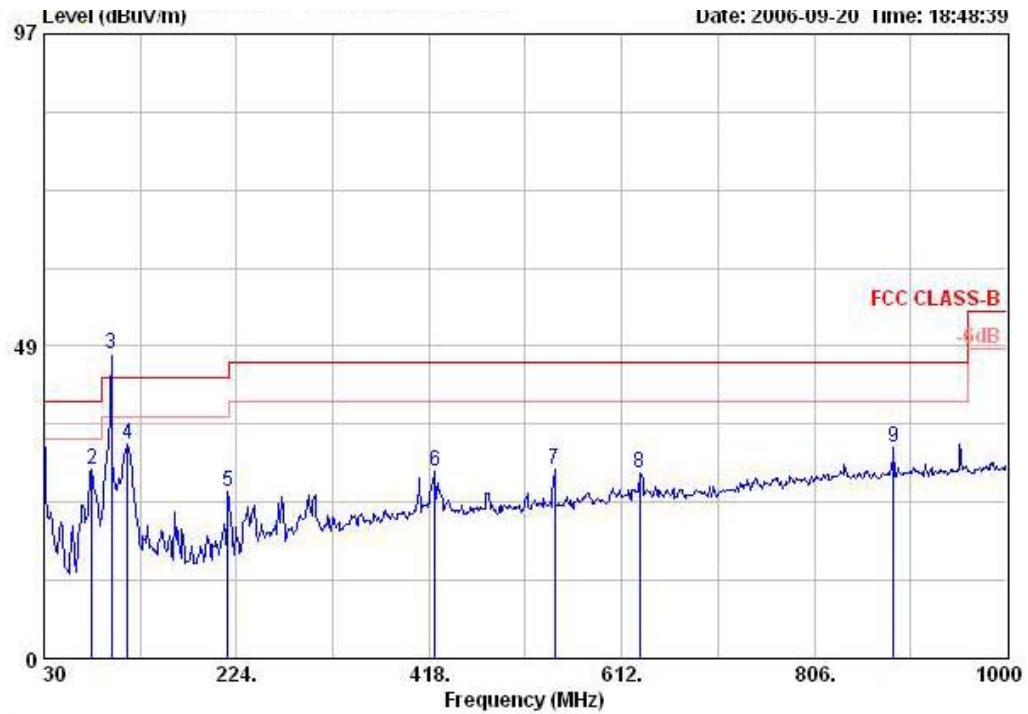
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 !	30.970	36.26	-3.74	40.00	42.88	19.58	0.38	26.59	Peak	400	0
2	48.430	33.74	-6.26	40.00	49.78	9.77	0.67	26.47	Peak	400	0
3 !	97.900	40.42			55.17	10.82	0.42	26.00	Peak	400	0
4	113.420	33.46	-10.04	43.50	46.11	12.61	0.70	25.96	Peak	400	0
5	215.270	25.13	-18.37	43.50	38.91	10.65	1.02	25.45	Peak	400	0
6	265.710	25.71	-20.29	46.00	36.14	13.70	1.15	25.27	Peak	400	0
7	427.700	29.14	-16.86	46.00	36.51	16.89	1.50	25.76	Peak	400	0
8	544.100	30.73	-15.27	46.00	36.87	18.51	1.63	26.28	Peak	400	0
9	885.540	31.00	-15.00	46.00	32.02	21.47	2.65	25.14	Peak	400	0
10	952.470	32.91	-13.09	46.00	33.30	22.02	3.06	25.47	Peak	400	0

Item 3 is fundamental frequency.

Horizontal

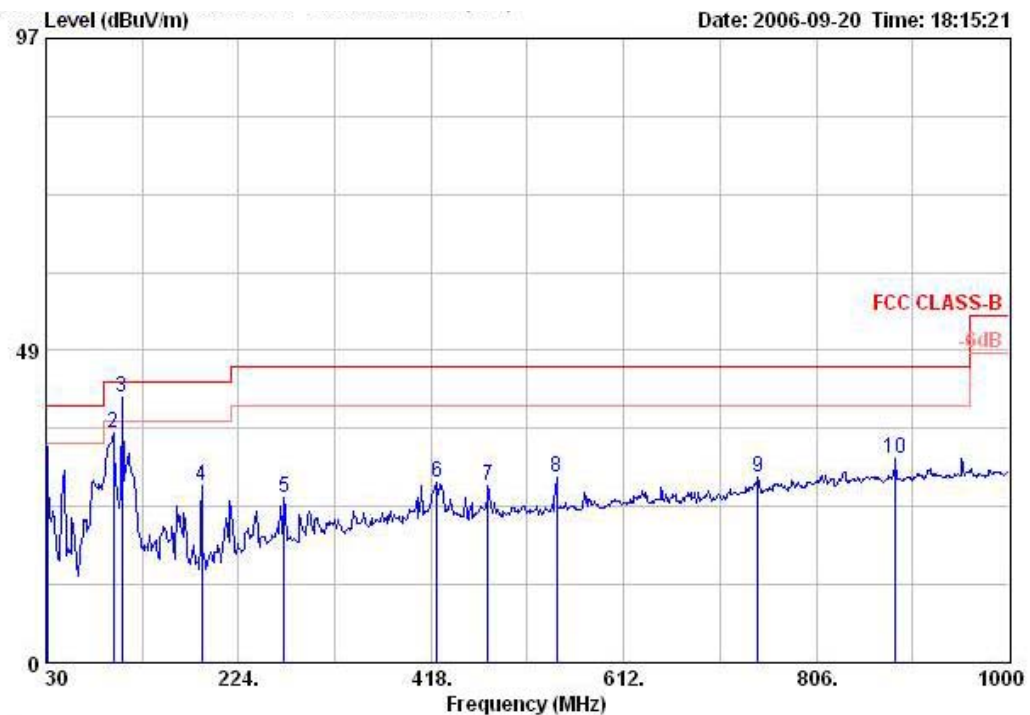


	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 !	30.000	35.25	-4.75	40.00	41.29	20.20	0.44	26.68	Peak	100	0
2	78.500	29.26	-10.74	40.00	47.61	7.54	0.33	26.21	Peak	100	0
3 @	97.900	47.35			62.10	10.82	0.42	26.00	Peak	100	0
4	114.390	33.22	-10.28	43.50	45.82	12.64	0.73	25.97	Peak	100	0
5	215.270	25.96	-17.54	43.50	39.74	10.65	1.02	25.45	Peak	100	0
6	423.820	29.01	-16.99	46.00	36.39	16.84	1.52	25.73	Peak	100	0
7	544.100	29.35	-16.65	46.00	35.49	18.51	1.63	26.28	Peak	100	0
8	630.430	28.78	-17.22	46.00	33.50	19.36	2.12	26.21	Peak	100	0
9	885.540	32.71	-13.29	46.00	33.73	21.47	2.65	25.14	Peak	100	0

Item 3 is fundamental frequency.

Temperature	24°C	Humidity	64%
Test Engineer	Beck Wu	Configurations	Channel 100 / Antenna with bundle of cable / Ant. 1+Ant. 2

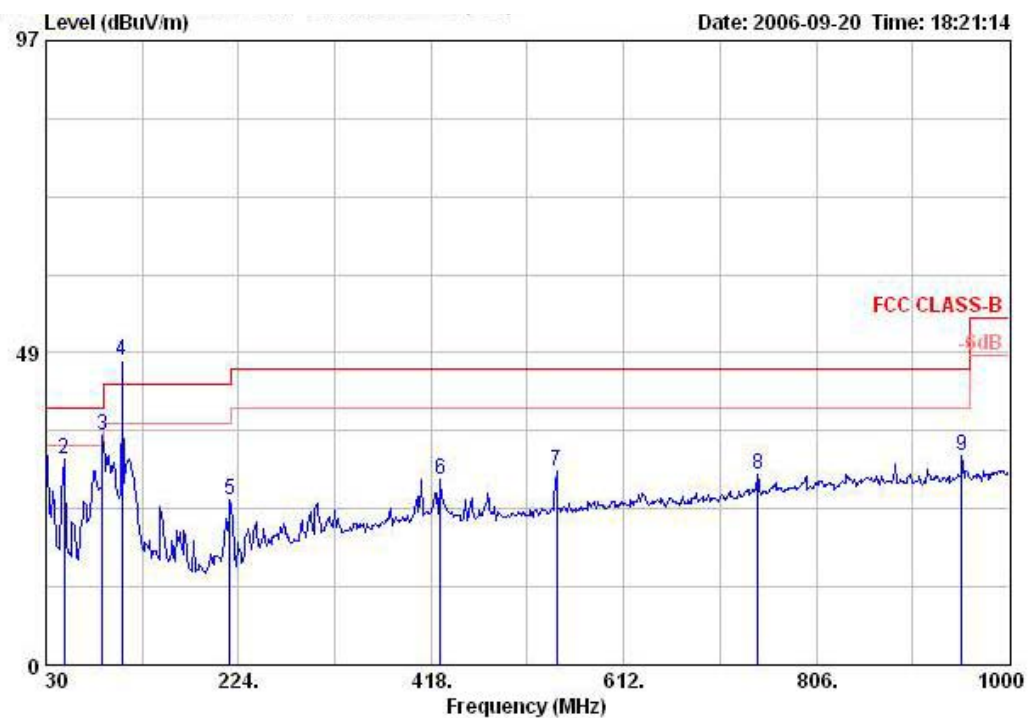
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	30.970	33.57	-6.43	40.00	40.20	19.58	0.38	26.59	Peak	400	0
2	97.900	35.65	-7.85	43.50	50.41	10.82	0.42	26.00	Peak	400	0
3 @	106.630	41.16			54.49	12.11	0.50	25.95	Peak	400	0
4	187.140	27.45	-16.05	43.50	42.51	9.56	0.78	25.40	Peak	400	0
5	269.590	25.64	-20.36	46.00	36.22	13.50	1.15	25.23	Peak	400	0
6	423.820	28.14	-17.86	46.00	35.52	16.84	1.52	25.73	Peak	400	0
7	475.230	27.60	-18.40	46.00	34.63	17.50	1.62	26.15	Peak	400	0
8	544.100	28.85	-17.15	46.00	34.99	18.51	1.63	26.28	Peak	400	0
9	746.830	28.76	-17.24	46.00	31.32	20.08	2.46	25.10	Peak	400	0
10	885.540	31.77	-14.23	46.00	32.79	21.47	2.65	25.14	Peak	400	0

Item 3 is fundamental frequency.

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 !	30.000	35.37	-4.63	40.00	41.41	20.20	0.44	26.68	Peak	100	0
2	48.430	31.91	-8.09	40.00	47.95	9.77	0.67	26.47	Peak	100	0
3 !	87.230	35.65	-4.35	40.00	52.42	8.82	0.54	26.13	Peak	100	0
4 @	106.630	47.34			60.68	12.11	0.50	25.95	Peak	100	0
5	215.270	25.70	-17.80	43.50	39.48	10.65	1.02	25.45	Peak	100	0
6	427.700	28.80	-17.20	46.00	36.17	16.89	1.50	25.76	Peak	100	0
7	544.100	30.26	-15.74	46.00	36.40	18.51	1.63	26.28	Peak	100	0
8	746.830	29.61	-16.39	46.00	32.18	20.08	2.46	25.10	Peak	100	0
9	952.470	32.62	-13.38	46.00	33.02	22.02	3.06	25.47	Peak	100	0

Item 4 is fundamental frequency.

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.

4.4. Band Edge Emissions Measurement

4.4.1. Limit

Band edge emissions outside of the frequency bands shown in below table.

Outside Frequency Band Edge	Limit (dBuV/m) at 3m
Below 88MHz	40.0 (QP)
Above 108MHz	43.5 (QP)

4.4.2. Measuring Instruments and Setting

Please refer to section 5 in this report. The following table is the setting of the receiver.

Receiver Parameter	Setting
Center Frequency	Fundamental Frequency
RB	120 KHz
Detector	QP or Peak

4.4.3. Test Procedures

The test procedure is the same as section 4.2.3, only the frequency range investigated is limited to 2MHz around bandedges.

4.4.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.2.4

4.4.5. Test Deviation

There is no deviation with the original standard.

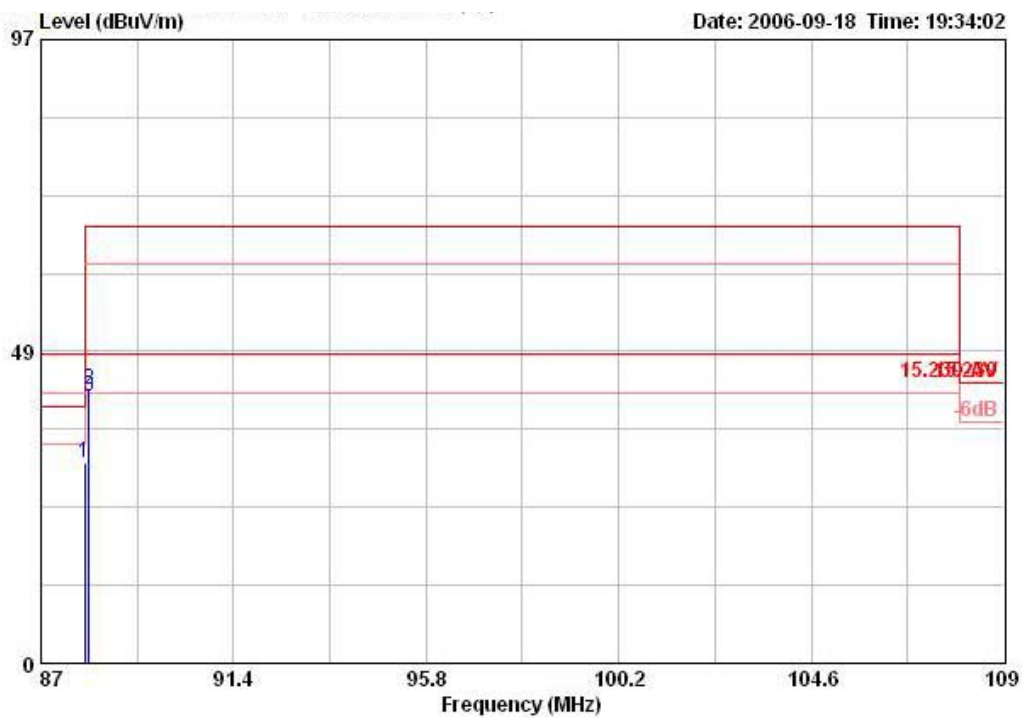
4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.4.7. Test Result of Band Edge and Fundamental Emissions

Temperature	24°C	Humidity	64%
Test Engineer	Leo Hung	Configurations	Channel 1, 100 / Antenna without bundle of cable / Ant. 1

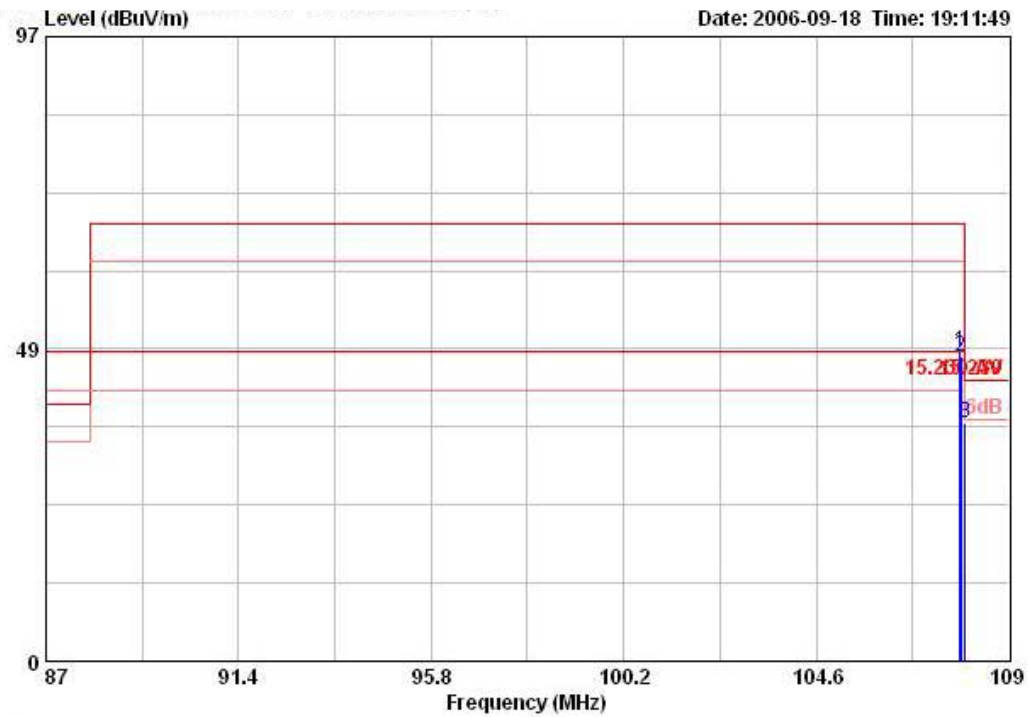
Channel 1



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	88.000	31.11	-8.89	40.00	47.70	8.98	0.55	26.12	QP	100	186

Item 1 is Band Edge.

Channel 100



		Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
3 @ 108.000	36.99	-6.51	43.50	50.17	12.24	0.53	25.95	QP	260	231

Item 3 is Band Edge.

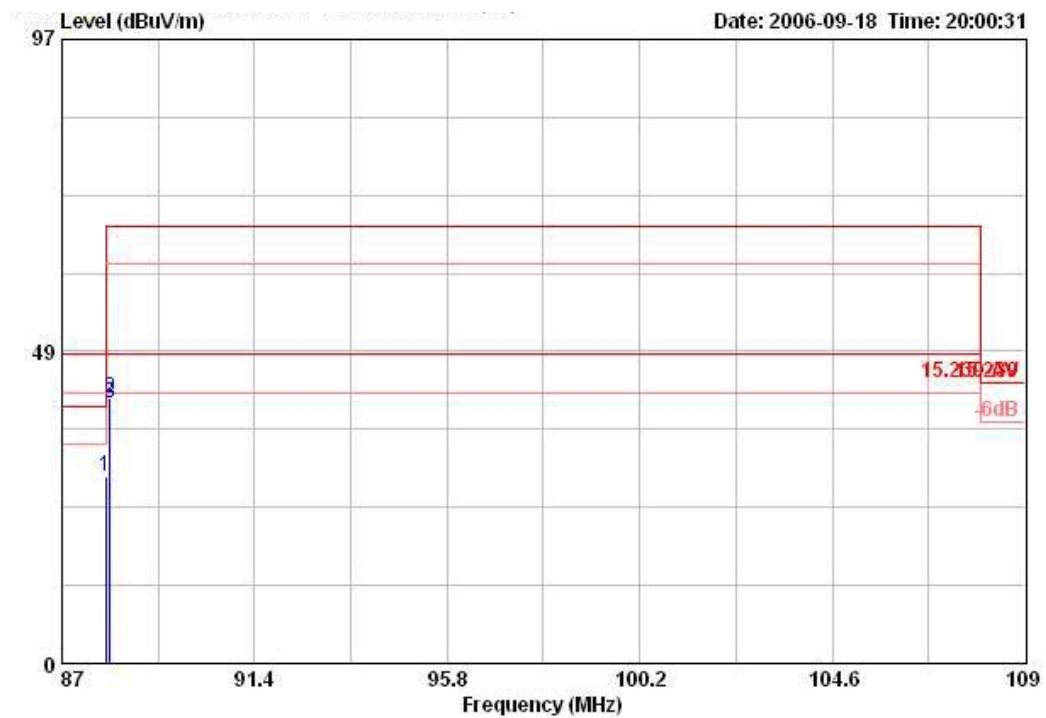
Note:

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

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

Temperature	24°C	Humidity	64%
Test Engineer	Leo Hung	Configurations	Channel 1, 100 / Antenna with bundle of cable / Ant. 1

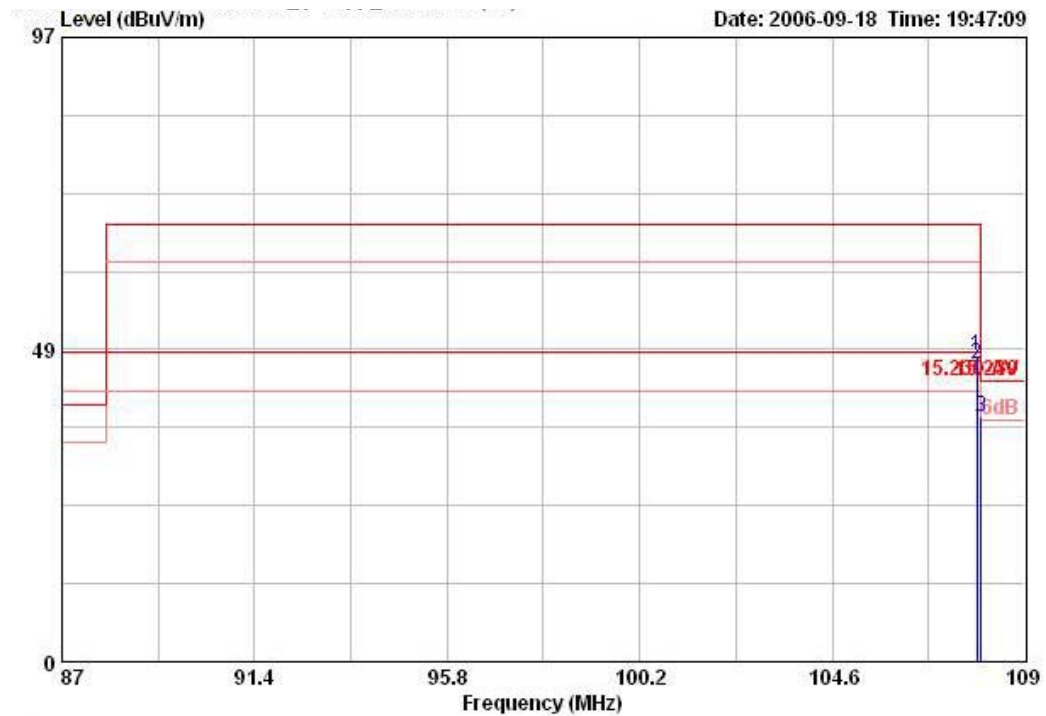
Channel 1



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBUV/m	dB	dBUV/m	dBUV	dB/m	dB	dB		cm	deg
1	88.000	29.18	-10.82	40.00	45.77	8.98	0.55	26.12	QP	100	187

Item 1 is Band Edge.

Channel 100



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
3 @	108.000	38.10	-5.40	43.50	51.28	12.24	0.53	25.95	QP	272	304

Item 3 is Band Edge.

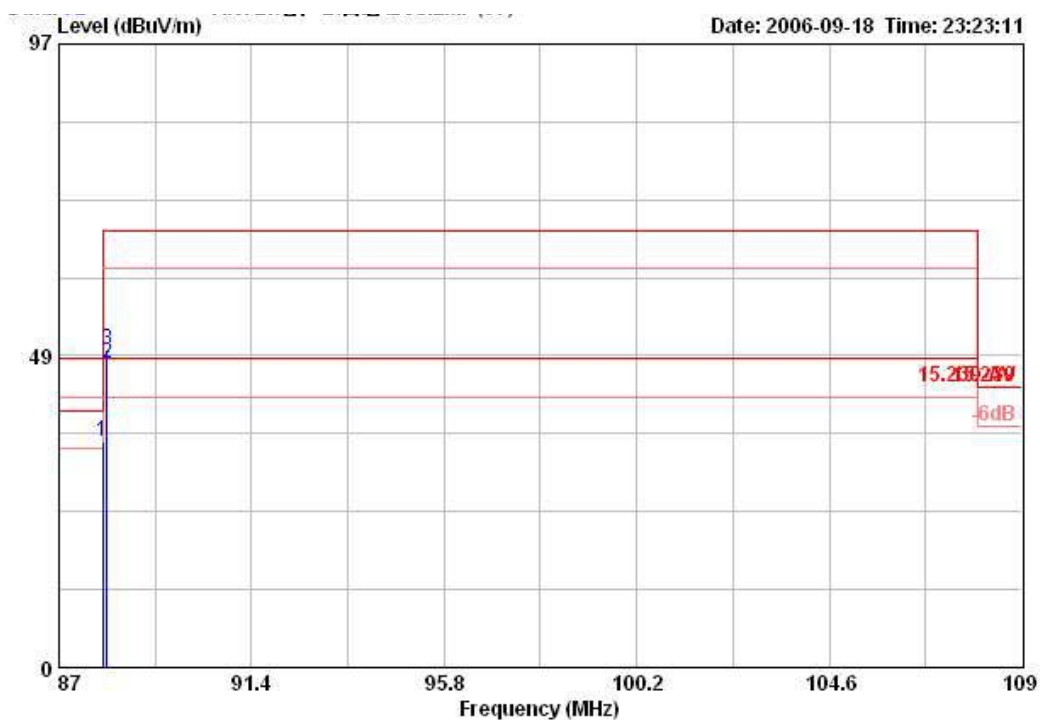
Note:

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

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

Temperature	24°C	Humidity	64%
Test Engineer	Leo Hung	Configurations	Channel 1, 100 / Antenna without bundle of cable / Ant. 1 + Ant. 2

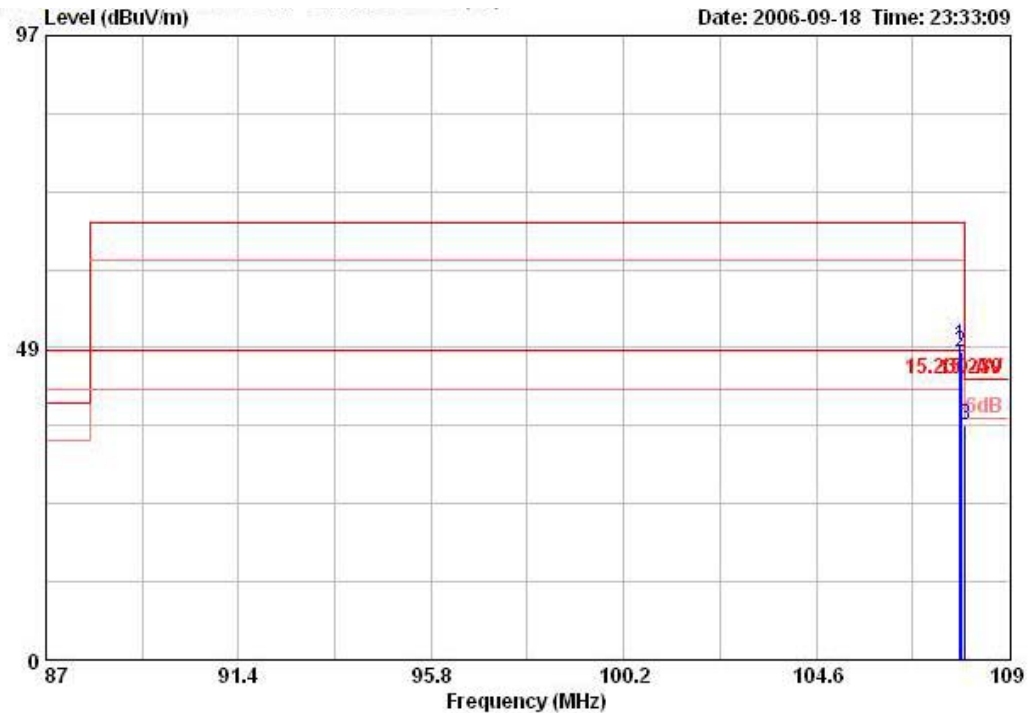
Channel 1



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB	dB		cm	deg
1 @	88.000	35.21	-4.79	40.00	51.80	8.98	0.55	26.12 QP	400	323

Item 1 is Band Edge.

Channel 100



	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Remark	Pos	Pos
3	108.000	36.36	-7.14	43.50	49.54	12.24	0.53	25.95	QP	400	300

Item 3 is Band Edge.

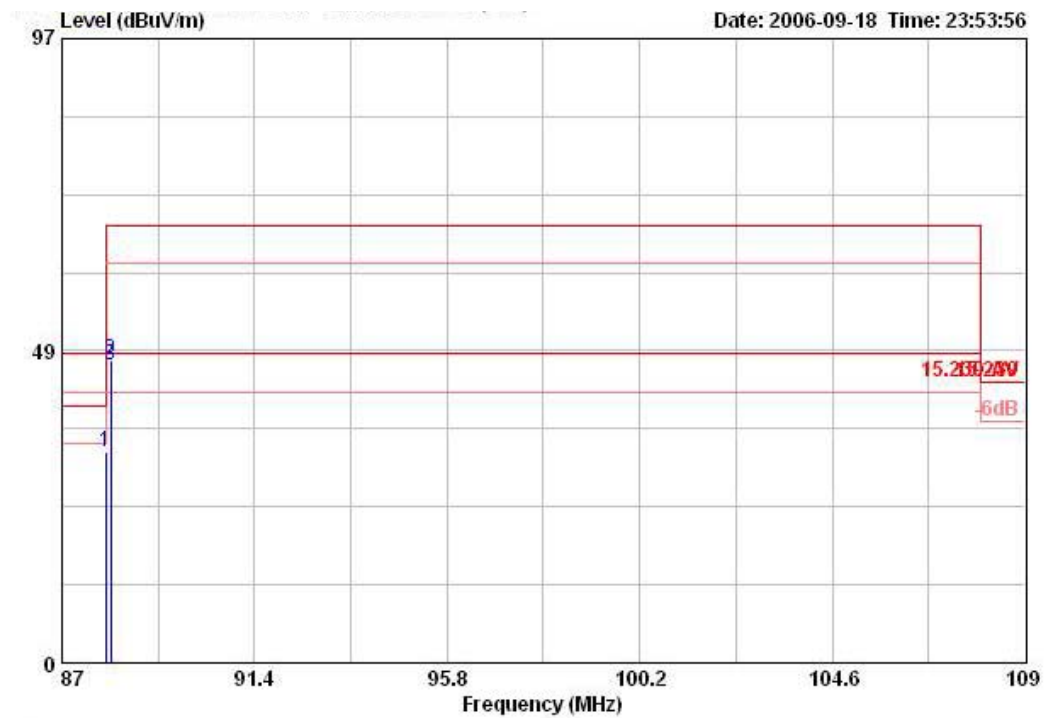
Note:

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

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

Temperature	24°C	Humidity	64%
Test Engineer	Leo Hung	Configurations	Channel 1, 100 / Antenna without bundle of cable / Ant. 1 + Ant. 2

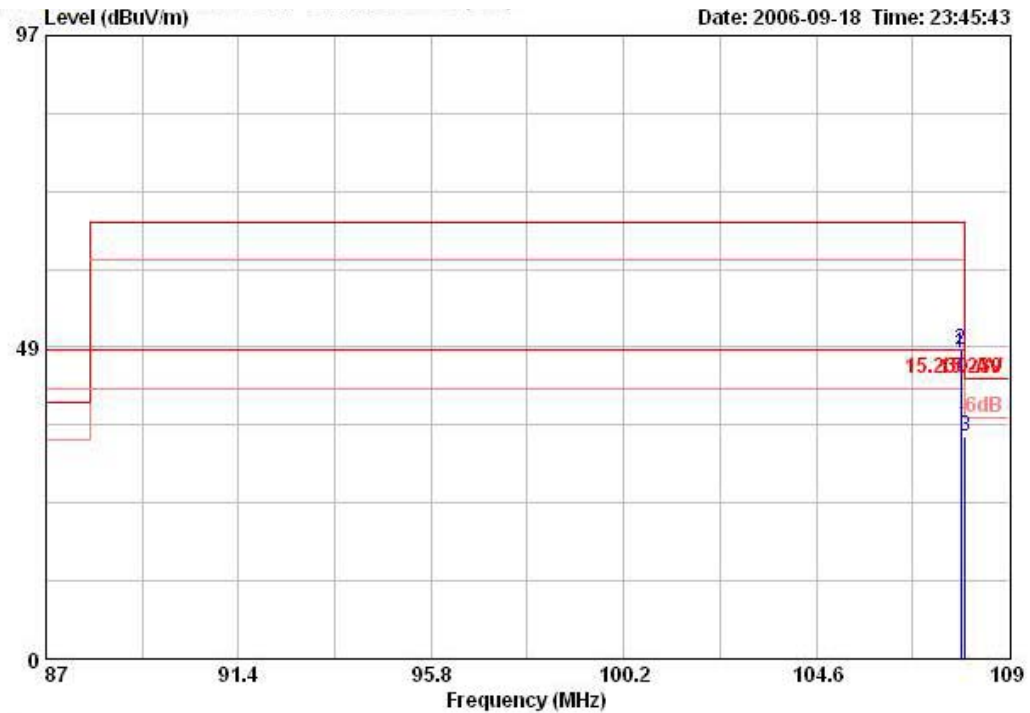
Channel 1



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB		cm	deg
1 @	88.000	32.88	-7.13	40.00	49.47	8.98	0.55	26.12	QP	400	266

Item 1 is Band Edge.

Channel 100



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
3	108.000	34.57	-8.93	43.50	47.75	12.24	0.53	25.95	QP	400	112

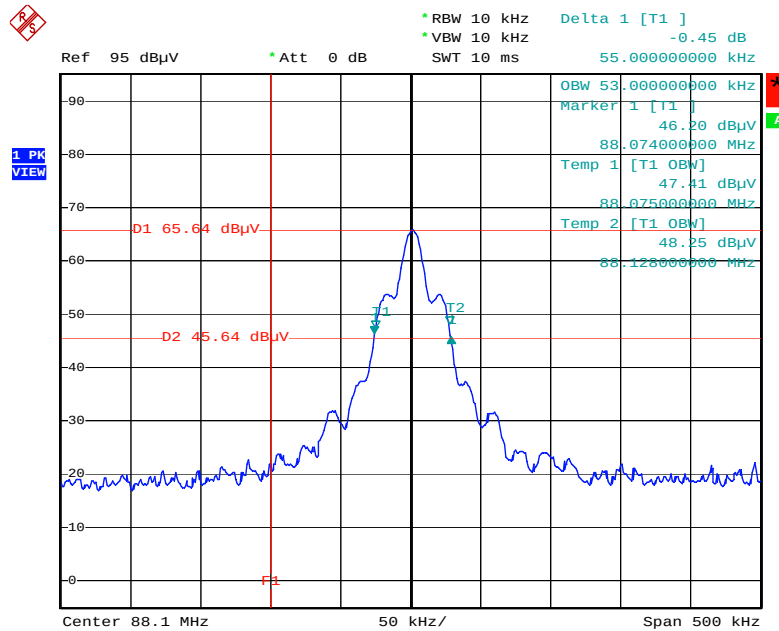
Item 3 is Band Edge.

Note:

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

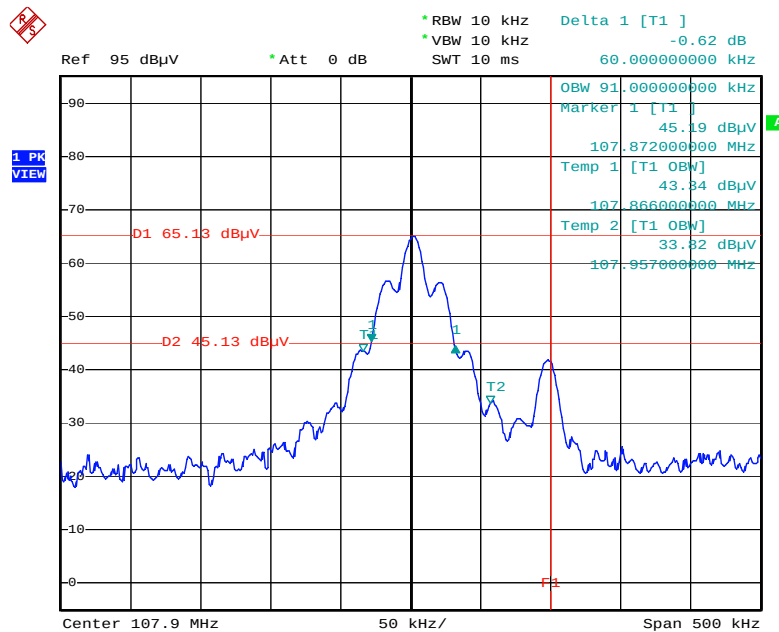
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Low Band Edge Plot on 88.1 MHz



Date: 6.JUL.2006 14:08:15

High Band Edge Plot on 107.9 MHz



Date: 6.JUL.2006 14:02:14

4.5. Antenna Requirements

4.5.1. 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,

4.5.2. Antenna Connector Construction

Please refer to section 3.1 in this test report, antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 15, 2006	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	CPA9231A	3565	9 kHz - 2 GHz	Jan. 18, 2006	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	May 29, 2006	Radiation (03CH03-HY)
Amplifier	MITEQ	AMF-6F-260400	923364	26.5 GHz - 40 GHz	Jan. 24, 2006*	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100004/040	9 kHz - 40 GHz	Sep. 30, 2005	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	May 23, 2006*	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30 MHz – 1 GHz	Jul. 24, 2006	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6903	1GHz ~ 18GHz	Mar. 15, 2006	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	NCR	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Dec.02, 2005	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Dec.02, 2005	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	Nov. 26, 2005	Conducted (TH01-HY)
Power meter	R&S	NRVS	100444	DC ~ 40GHz	Jun. 10,2006	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jun. 10,2006	Conducted (TH01-HY)
DC power source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Dec. 28, 2005	Conducted (TH01-HY)
Temp. and Humidity Chamber	KSON	THS-C3L	612	N/A	Oct. 01, 2005	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 30, 2005	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 30, 2005*	Conducted (TH01-HY)
AC power source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	Apr. 21, 2005*	Conducted (TH01-HY)
Oscilloscope	Tektronix	TDS1012	CO38515	100MHz / 1GS/s	Apr. 14, 2006*	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Dec. 30, 2005	Conducted (TH01-HY)
Data Generator	Tektronix	DG2030	063-2920-50	0.1Hz~400MHz	Jun. 16, 2006*	Conducted (TH01-HY)

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

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

Note: NCR means Non-Calibration required.

6. SPORTON COMPANY PROFILE

SPORTON Lab. was established in 1986 with one shielded room: the first private EMI test facility, offering local manufacturers an alternative EMI test facility apart from ERSO. In 1988, one 3M and 10M/3M open area test site were setup and also obtained official accreditation from FCC, VCCI and NEMKO. In 1993, a Safety laboratory was founded and obtained accreditation from UL of USA, CSA of Canada and TUV (Rhineland & PS) of Germany. In 1995, one EMC lab, including EMI and EMS test facilities was setup. In 1997, SPORTON Group has provided financial expense to relocate the headquarter to Orient Scientific Park in Taipei Hsien to offer more comprehensive, more qualified and better service to local suppliers and manufactures. In 1999, Safety Group and Component Group were setup. In 2001, SPORTON has established 3M/10M chamber in Hwa Ya Technology Park.

6.1. Test Location

SHIJR	ADD : 6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C. TEL : 02-2696-2468 FAX : 02-2696-2255
HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 03-327-3456 FAX : 03-318-0055
LINKOU	ADD : No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C TEL : 02-2601-1640 FAX : 02-2601-1695
DUNGHU	ADD : No. 3, Lane 238, Kangle St., Neihsu Chiu, Taipei, Taiwan 114, R.O.C. TEL : 02-2631-4739 FAX : 02-2631-9740
JUNGHE	ADD : 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. TEL : 02-8227-2020 FAX : 02-8227-2626
NEIHU	ADD : 4Fl., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C. TEL : 02-2794-8886 FAX : 02-2794-9777
JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C. TEL : 03-656-9065 FAX : 03-656-9085