

■ Field strength of fundamental and harmonics

Frequency	Antenna	Cable	Reading	Preamplifier Factor	Limits	Emission	Margin	Detect	
Polarity	Factor	Loss							
(MHz)	(dB/m)	(dB)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Mode	
2436.000	V	28.29	1.76	110.90	41.17	-	99.78	-	Peak
2436.000	V	28.29	1.76	104.83	41.17	-	93.71	-	AV
2440.000	H	28.30	1.77	116.96	41.17	-	105.86	-	Peak
2436.000	H	28.29	1.76	110.99	41.17	-	99.87	-	AV
4876.000	V	33.17	2.52	66.76	42.44	74.00	60.01	-13.99	Peak
4876.000	V	33.17	2.52	57.00	42.44	54.00	50.25	-3.75	AV
4876.000	H	33.17	2.52	56.11	42.44	74.00	49.36	-24.64	Peak
4875.900	H	33.17	2.52	42.43	42.44	54.00	35.68	-18.32	AV
7236.000	V/H	-	-	-	-	-	-	-	AV/Peak
9648.000	V/H	-	-	-	-	-	-	-	AV/Peak
12060.000	V/H	-	-	-	-	-	-	-	AV/Peak
14472.000	V/H	-	-	-	-	-	-	-	AV/Peak
16884.000	V/H	-	-	-	-	-	-	-	AV/Peak
19296.000	V/H	-	-	-	-	-	-	-	AV/Peak
21708.000	V/H	-	-	-	-	-	-	-	AV/Peak
24120.000	V/H	-	-	-	-	-	-	-	AV/Peak

Remark:

1. The emission emitted by the EUT is too low to be measured except the emission listed above,
2. Reading = Reading on SA-Preamplifier Factor

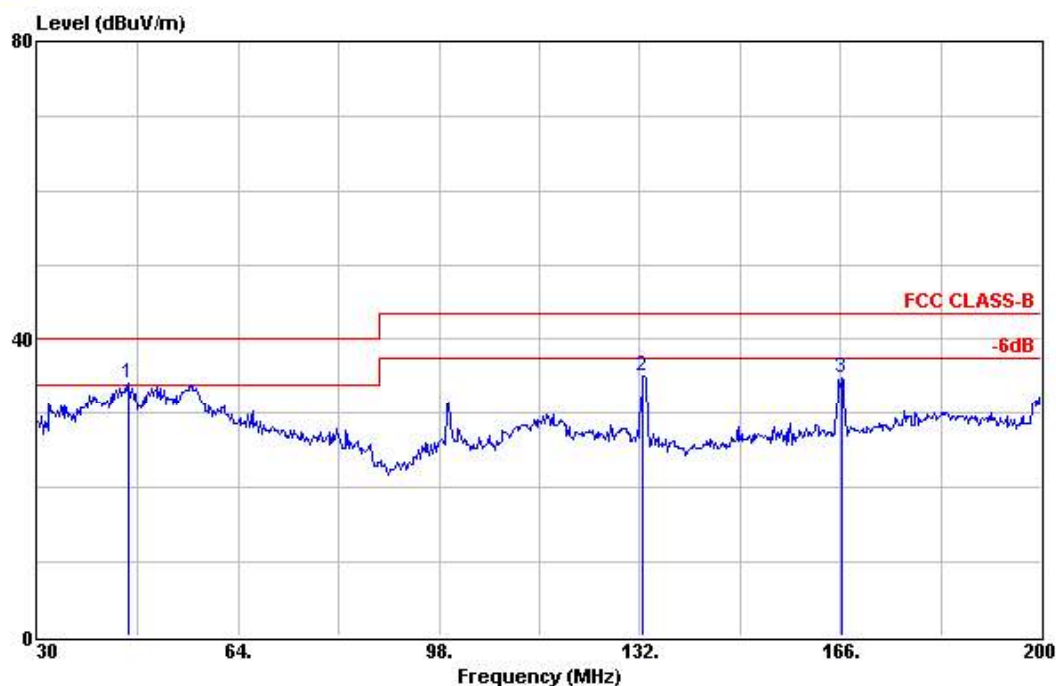
Test Engineer : 

Jay

7.4.3 Test Mode: Mode 3 802.11b TX CH11

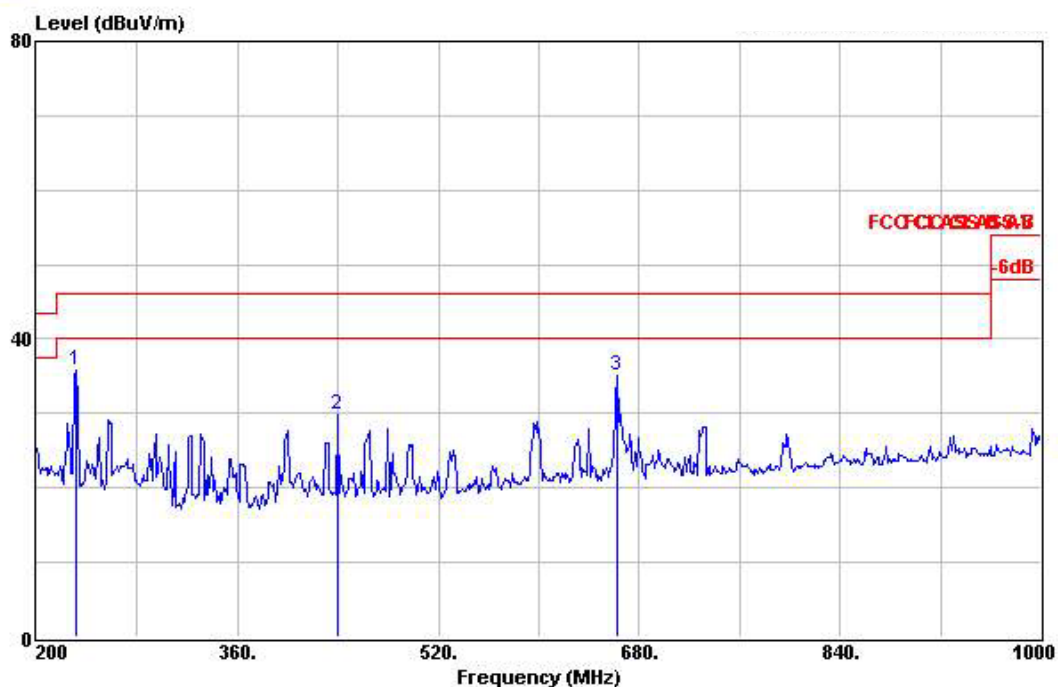
- Test Distance : 3 m
- Temperature : 26°C
- Relative Humidity :55 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading : Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

■ The test that passed at minimum margin was marked by the frame in the following table.



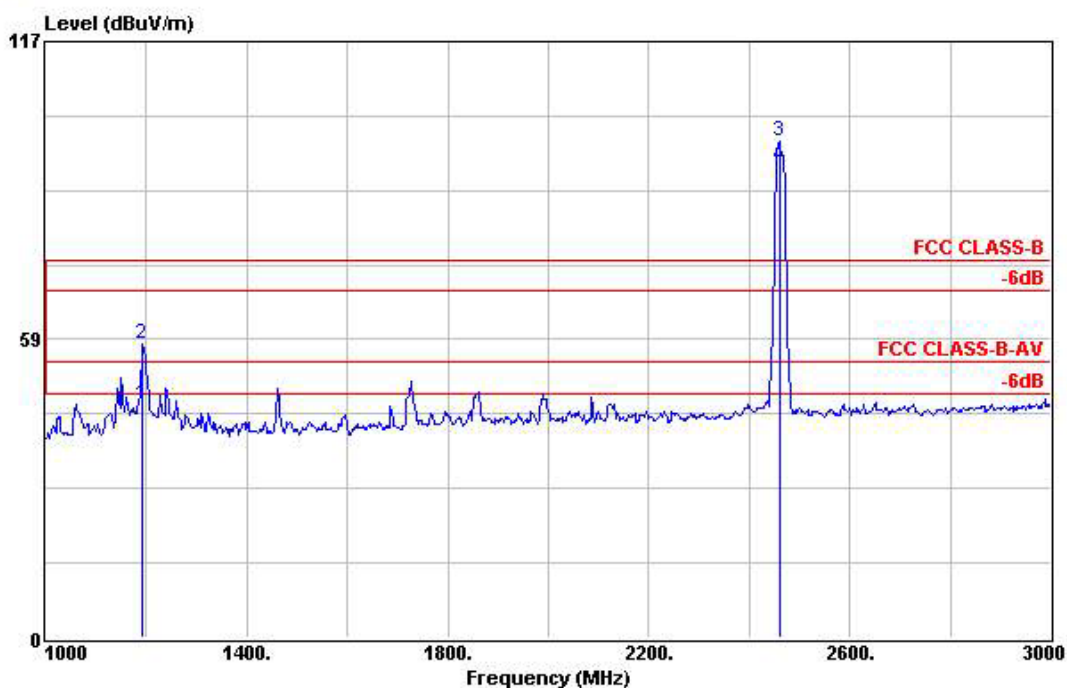
Site : 03CH03-HY
 Condition : FCC CLASS-B 3m BIC-9124--301 VERTICAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11b TX CH11

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1 !	45.300	34.25	-5.75	40.00	50.52	10.59	1.15	28.01	Peak	---	---
2	132.510	35.13	-8.37	43.50	49.45	11.46	2.05	27.83	Peak	---	---
3	166.340	34.91	-8.59	43.50	47.30	13.05	2.33	27.77	Peak	---	---



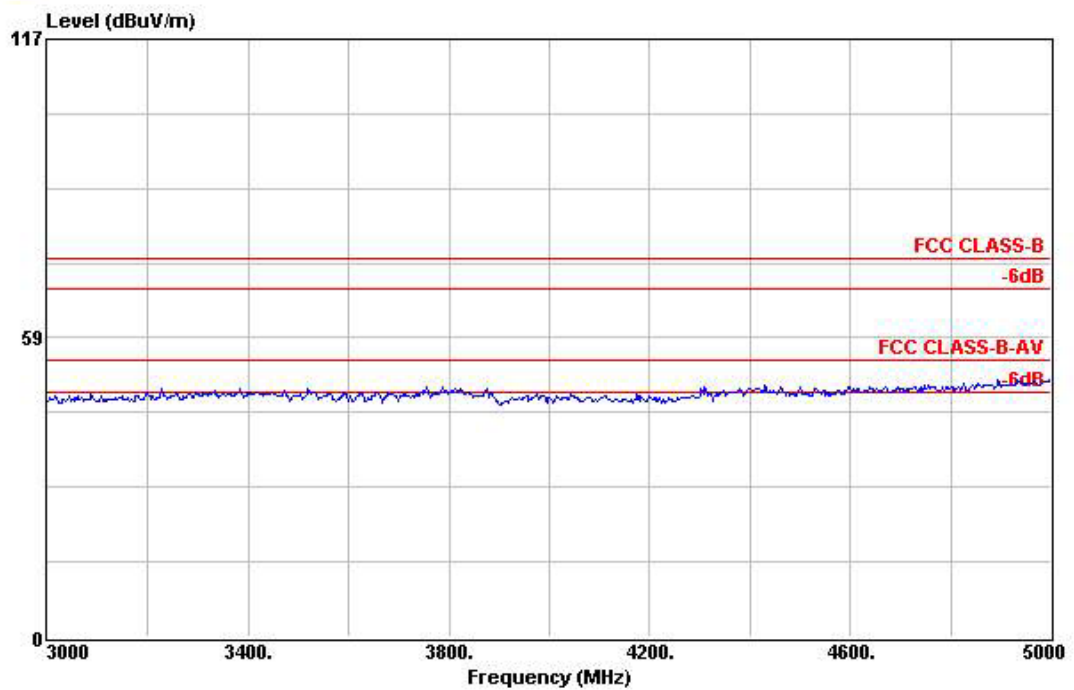
Site : 03CH03-HY
 Condition : FCC CLASS-B 3m LOG-9111-221 VERTICAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11b TX CH11

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	231.200	35.78	-10.22	46.00	47.21	13.40	2.75	27.58	Peak	---	---
2	439.200	29.74	-16.26	46.00	37.94	16.31	3.64	28.15	Peak	---	---
3	662.400	35.12	-10.88	46.00	40.15	19.04	4.67	28.74	Peak	---	---



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11b TX CH11

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1190.000	45.61	-8.39	54.00	60.11	24.58	1.22	40.30	Average	100	223
2	1190.000	57.77	-16.23	74.00	72.27	24.58	1.22	40.30	Peak	100	223
3 X	2460.000	97.40			108.46	28.34	1.78	41.18	Peak	100	337
4 X	2460.000	92.52			103.58	28.34	1.78	41.18	Average	100	337

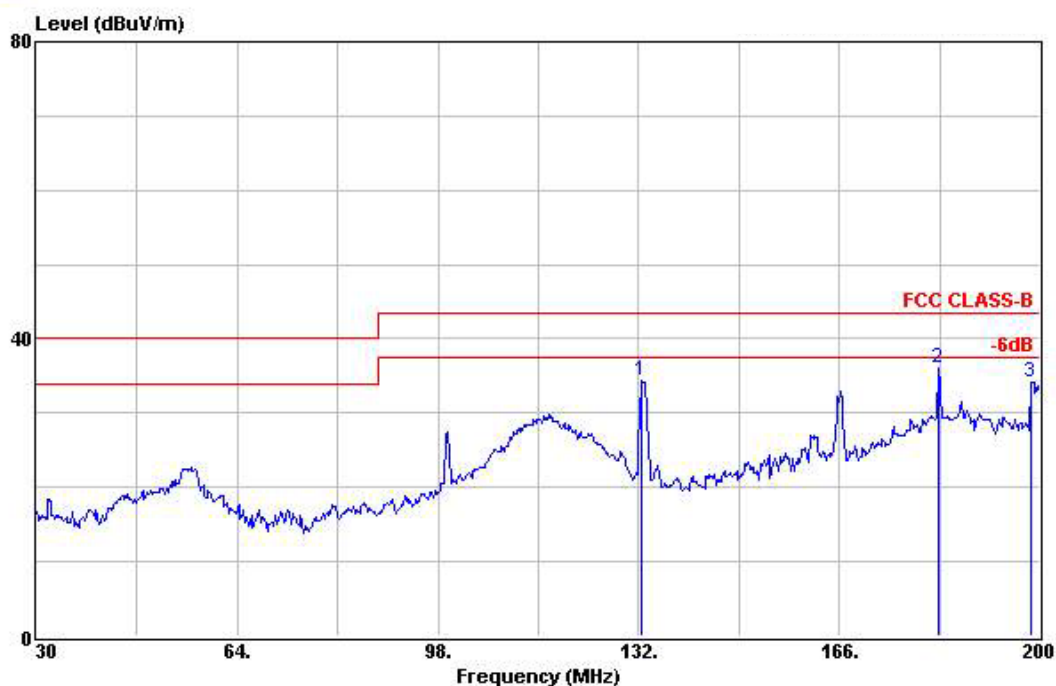


Site : 03CH03-HY
Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL
EUT : PCMCIA
Power :
Model : EW-7108PCG
Memo : 11b TX CH11

Remark: The "X" represent a fundamental frequency.

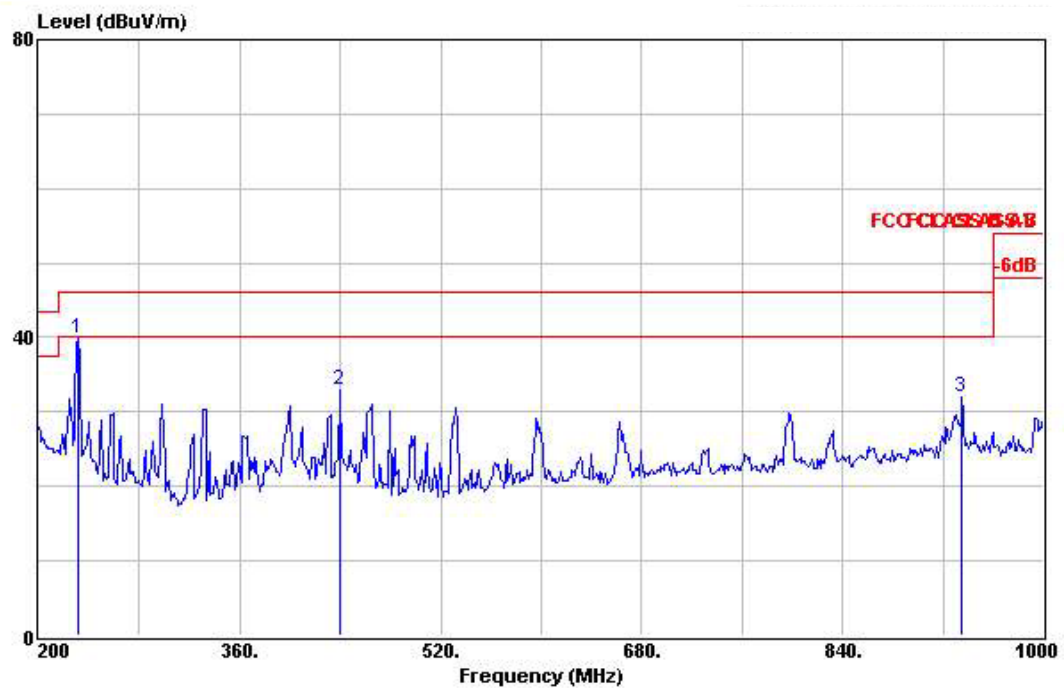
For 5GHz ~ 25GHz

Frequency from 5000MHz to 25000MHz, the emission emitted by the EUT is too low to be measured



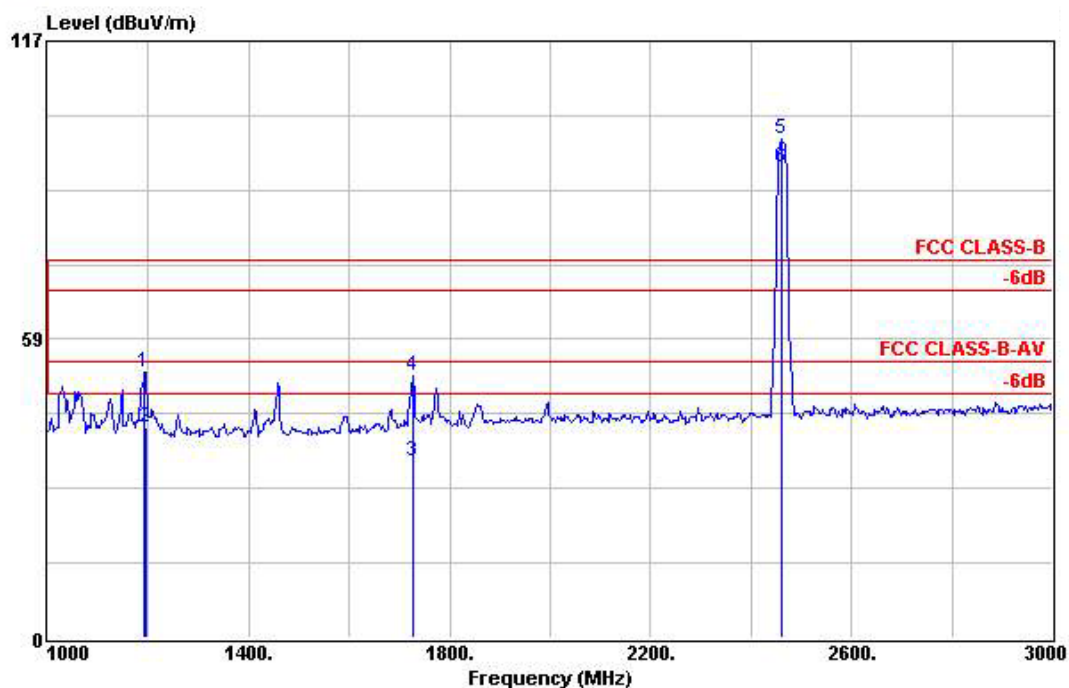
Site : 03CH03-HY
 Condition : FCC CLASS-B 3m BIC-9124--301 HORIZONTAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11b TX CH11

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB	dB	dB		cm	deg
1	132.510	34.33	-9.17	43.50	48.65	11.46	2.05	27.83	Peak	---	---
2	182.830	36.11	-7.39	43.50	47.56	13.84	2.44	27.73	Peak	---	---
3	198.470	34.14	-9.36	43.50	44.52	14.76	2.56	27.70	Peak	---	---



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m LOG-9111-221 HORIZONTAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11b TX CH11

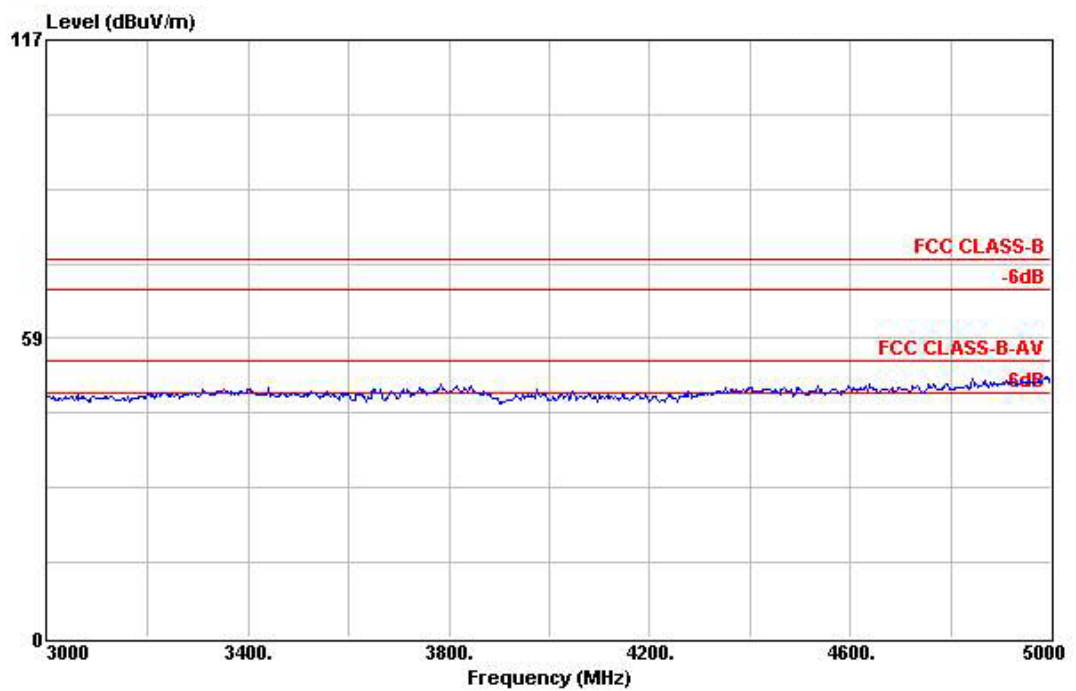
	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
			dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	231.200	39.82	-6.18	46.00	51.25	13.40	2.75	27.58	Peak	---	---
2	439.200	33.04	-12.96	46.00	41.24	16.31	3.64	28.15	Peak	---	---
3	935.200	32.09	-13.91	46.00	33.30	21.61	5.44	28.26	Peak	---	---



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11b TX CH11

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1192.000	52.00	-22.00	74.00	66.49	24.59	1.22	40.30	Peak	---	---
2	1196.000	41.18	-12.82	54.00	55.67	24.60	1.22	40.31	Average	100	147
3	1728.000	34.57	-19.43	54.00	47.55	26.30	1.46	40.74	Average	100	224
4	1728.000	51.20	-22.80	74.00	64.18	26.30	1.46	40.74	Peak	100	224
5 X	2460.000	97.81			108.87	28.34	1.78	41.18	Peak	---	---
6 X	2460.000	92.20			103.26	28.34	1.78	41.18	Average	100	327

Remark: The "X" represent a fundamental frequency.



Site : 03CH03-HY
Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL
EUT : PCMCIA
Power :
Model : EW-7108PCG
Memo : 11b TX CH11

For 5GHz ~ 25GHz

Frequency from 5000MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

Frequency	Antenna	Cable	Reading	Preamplifier Factor	Limits	Emission	Margin	Detect	
Polarity	Factor	Loss							
(MHz)	(dB/m)	(dB)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Mode	
2460.000	V	28.34	1.78	108.46	41.18	-	97.40	-	Peak
2460.000	V	28.34	1.78	103.58	41.18	-	92.52	-	AV
2460.000	H	28.34	1.78	108.87	41.18	-	97.81	-	Peak
2460.000	H	28.34	1.78	103.26	41.18	-	92.20	-	AV
4824.000	V/H	-	-	-	-	-	-	-	AV/Peak
7236.000	V/H	-	-	-	-	-	-	-	AV/Peak
9648.000	V/H	-	-	-	-	-	-	-	AV/Peak
12060.000	V/H	-	-	-	-	-	-	-	AV/Peak
14472.000	V/H	-	-	-	-	-	-	-	AV/Peak
16884.000	V/H	-	-	-	-	-	-	-	AV/Peak
19296.000	V/H	-	-	-	-	-	-	-	AV/Peak
21708.000	V/H	-	-	-	-	-	-	-	AV/Peak
24120.000	V/H	-	-	-	-	-	-	-	AV/Peak

Remark:

1. The emission emitted by the EUT is too low to be measured except the emission listed above,
2. Reading = Reading on SA-Preamplifier Factor

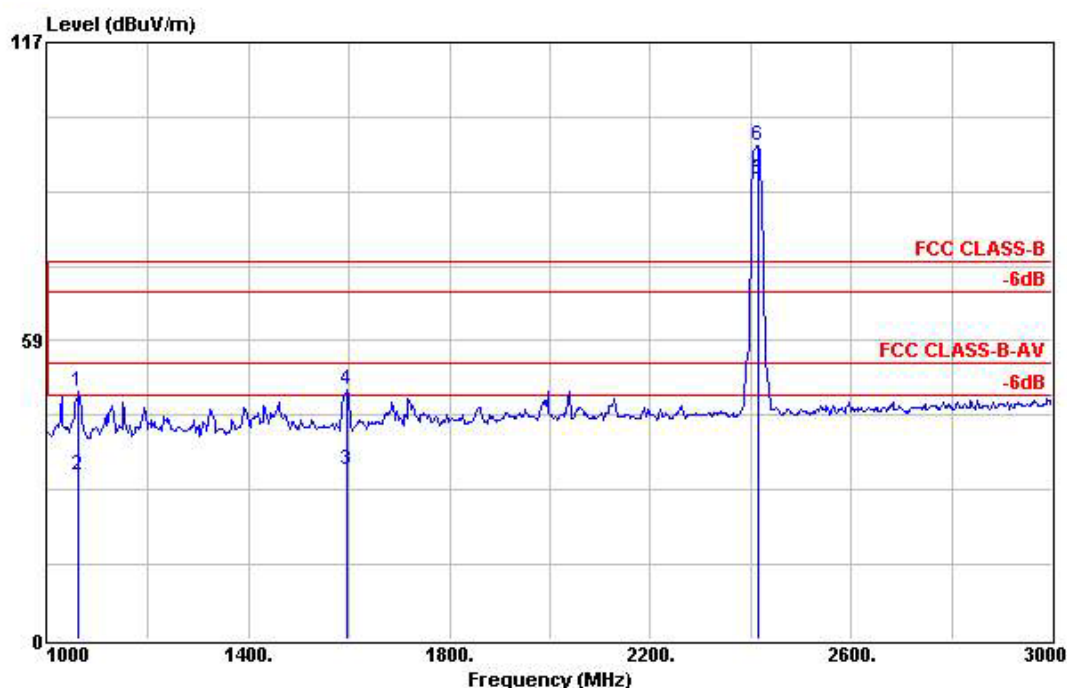
Test Engineer : 

Jay

7.4.4 Test Mode: Mode 4 802.11g TX CH01

- Test Distance : 3 m
- Temperature : 26°C
- Relative Humidity :55 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading : Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

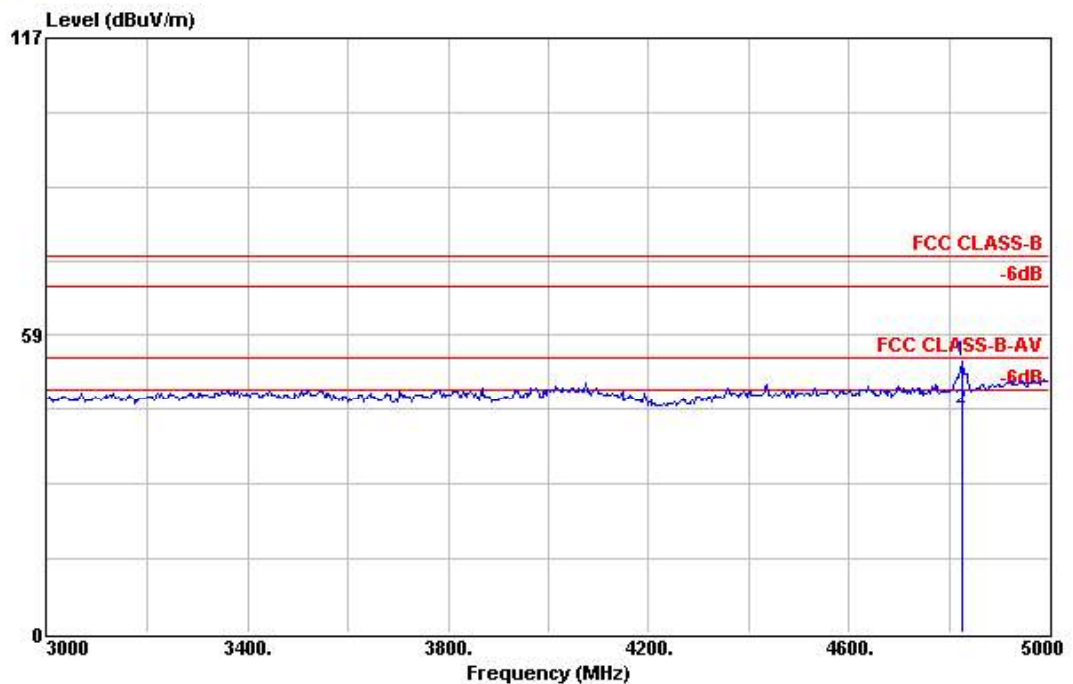
■ The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH01

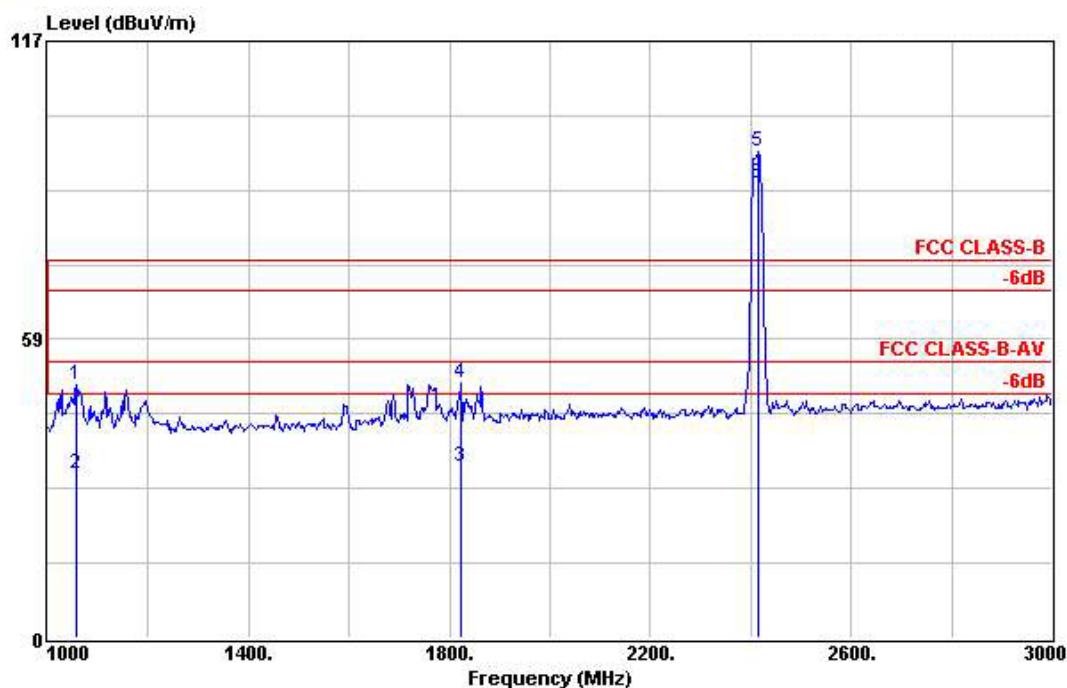
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1062.000	48.46	-25.54	74.00	63.17	24.27	1.19	40.17	Peak	---	---
2	1062.000	32.23	-21.77	54.00	46.94	24.27	1.19	40.17	Average	---	---
3	1596.000	33.20	-20.80	54.00	46.60	25.75	1.51	40.66	Average	---	---
4	1596.000	48.90	-25.10	74.00	62.30	25.75	1.51	40.66	Peak	---	---
5 X	2414.000	90.07			101.24	28.25	1.74	41.16	Average	144	284
6 X	2414.000	96.73			107.90	28.25	1.74	41.16	Peak	144	284

Remark: The "X" represent a fundamental frequency.



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH01

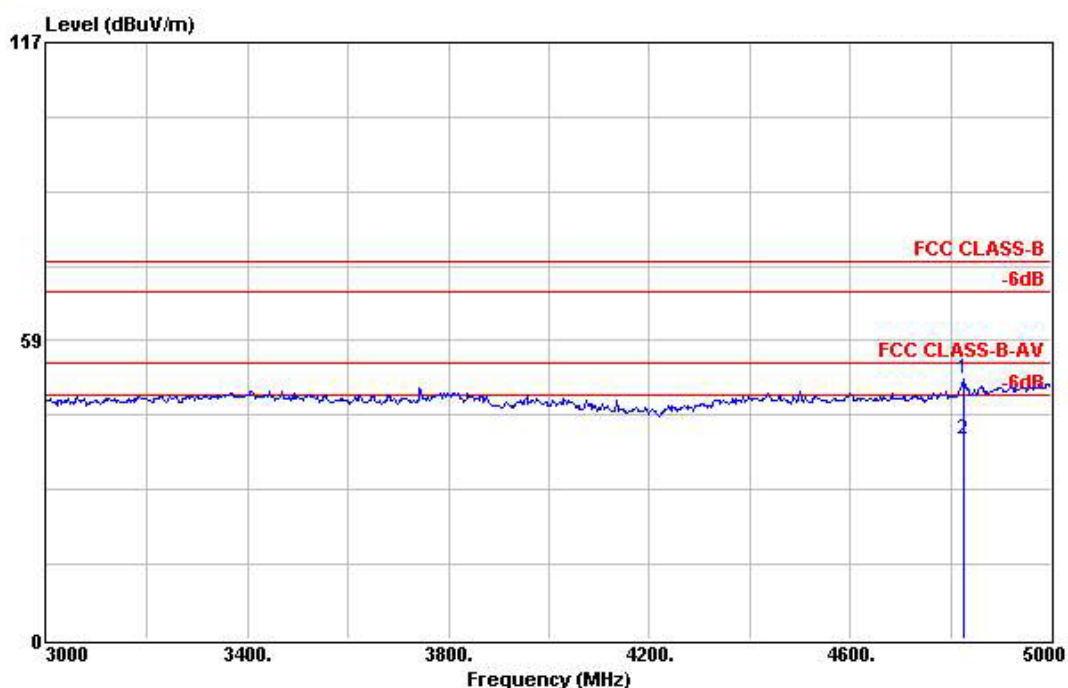
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4828.000	53.29	-20.71	74.00	60.10	33.08	2.49	42.38	Peak	182	326
2	4828.000	44.07	-9.93	54.00	50.88	33.08	2.49	42.38	Average	182	326



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH01

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1058.000	49.42	-24.58	74.00	64.14	24.26	1.19	40.17	Peak	---	---
2	1058.000	32.15	-21.85	54.00	46.87	24.26	1.19	40.17	Average	---	---
3	1822.000	33.41	-20.59	54.00	45.91	26.68	1.62	40.80	Average	---	---
4	1822.000	49.90	-24.10	74.00	62.40	26.68	1.62	40.80	Peak	---	---
5 X	2414.000	95.32			106.49	28.25	1.74	41.16	Peak	---	---
6 X	2414.000	89.02			100.19	28.25	1.74	41.16	Average	105	332

Remark: The "X" represent a fundamental frequency.



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH01

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4828.000	50.95	-23.05	74.00	57.76	33.08	2.49	42.38	Peak	100	312
2	4828.000	39.15	-14.85	54.00	45.96	33.08	2.49	42.38	Average	100	312

For 5GHz ~ 25GHz

Frequency from 5000MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

Frequency	Antenna	Cable	Reading	Preamp	Factor	Limits	Emission	Margin	Detect
Polarity	Factor	Loss							
(MHz)	(dB/m)	(dB)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		Mode
2414.000	V	28.25	1.74	107.90	41.16	-	96.73	-	Peak
2414.000	V	28.25	1.74	101.24	41.16	-	90.07	-	AV
2414.000	H	28.25	1.74	106.49	41.16	-	95.32	-	Peak
2414.000	H	28.25	1.74	100.19	41.16	-	89.02	-	AV
4828.000	V	33.08	2.49	60.10	42.38	74.00	53.29	-20.71	Peak
4828.000	V	33.08	2.49	50.88	42.38	54.00	44.07	-9.93	AV
4828.000	H	33.08	2.49	57.76	42.38	74.00	50.95	-23.05	Peak
4828.000	H	33.08	2.49	45.96	42.38	54.00	39.15	-14.85	AV
7236.000	V/H	-	-	-	-	-	-	-	AV/Peak
9648.000	V/H	-	-	-	-	-	-	-	AV/Peak
12060.000	V/H	-	-	-	-	-	-	-	AV/Peak
14472.000	V/H	-	-	-	-	-	-	-	AV/Peak
16884.000	V/H	-	-	-	-	-	-	-	AV/Peak
19296.000	V/H	-	-	-	-	-	-	-	AV/Peak
21708.000	V/H	-	-	-	-	-	-	-	AV/Peak
24120.000	V/H	-	-	-	-	-	-	-	AV/Peak

Remark:

1. The emission emitted by the EUT is too low to be measured except the emission listed above,
2. Reading = Reading on SA-Preamp Factor

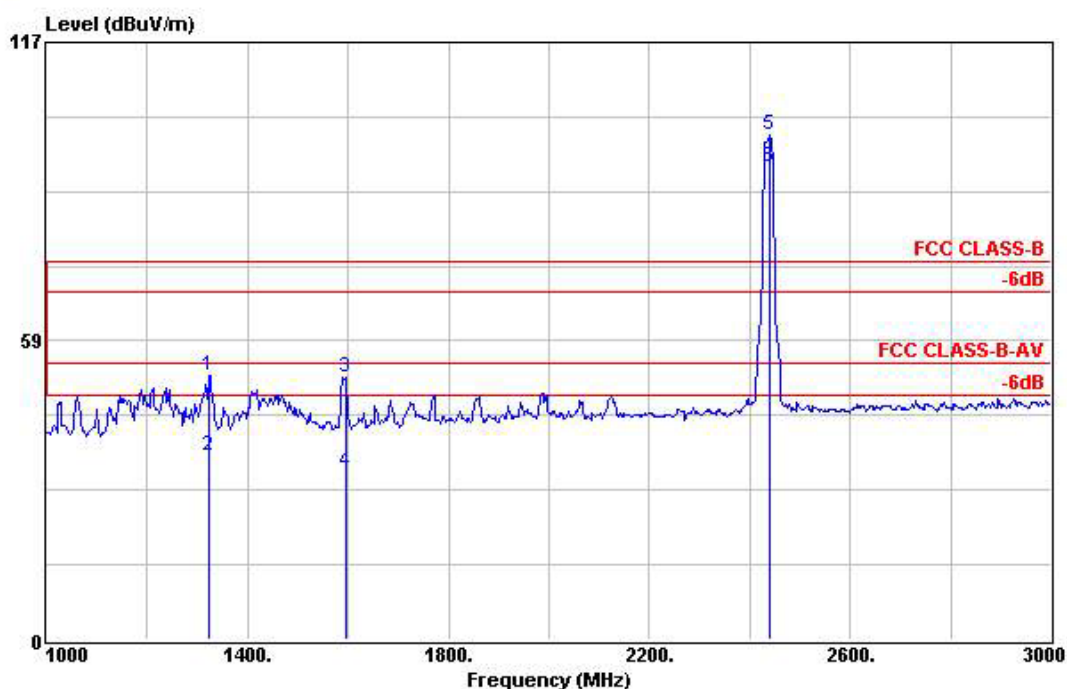
Test Engineer : 

Jay

7.4.5 Test Mode: Mode 5 802.11g TX CH06

- Test Distance : 3 m
- Temperature : 26°C
- Relative Humidity :55 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading : Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

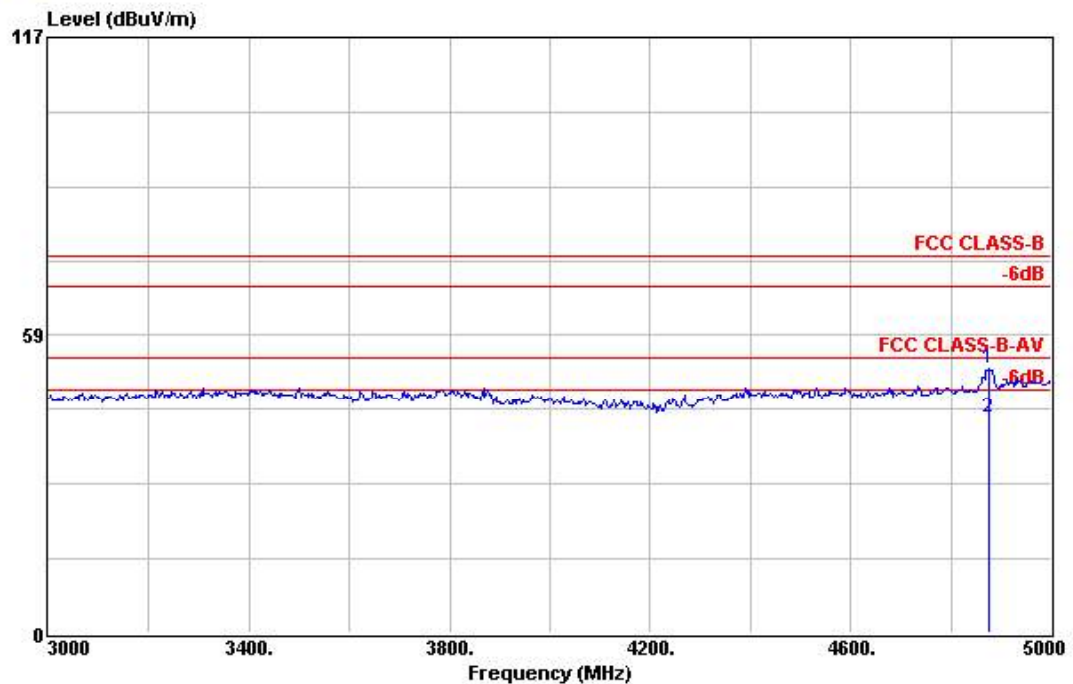
■ The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH06

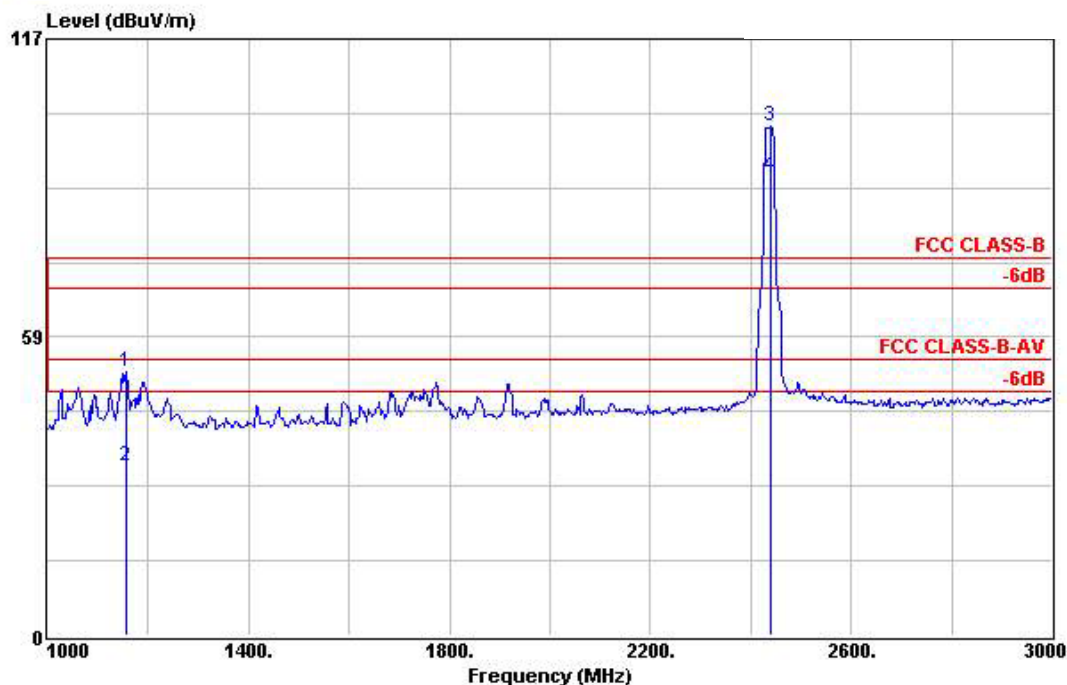
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1324.000	51.83	-22.17	74.00	66.00	24.91	1.36	40.44	Peak	100	172
2	1324.000	36.02	-17.98	54.00	50.19	24.91	1.36	40.44	Average	100	172
3	1596.000	51.48	-22.52	74.00	64.88	25.75	1.51	40.66	Peak	100	133
4	1596.000	32.79	-21.21	54.00	46.19	25.75	1.51	40.66	Average	100	133
5 X	2438.000	98.86			109.97	28.30	1.76	41.17	Peak	105	333
6 X	2438.000	92.57			103.68	28.30	1.76	41.17	Average	105	333

Remark: The "X" represent a fundamental frequency.



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH06

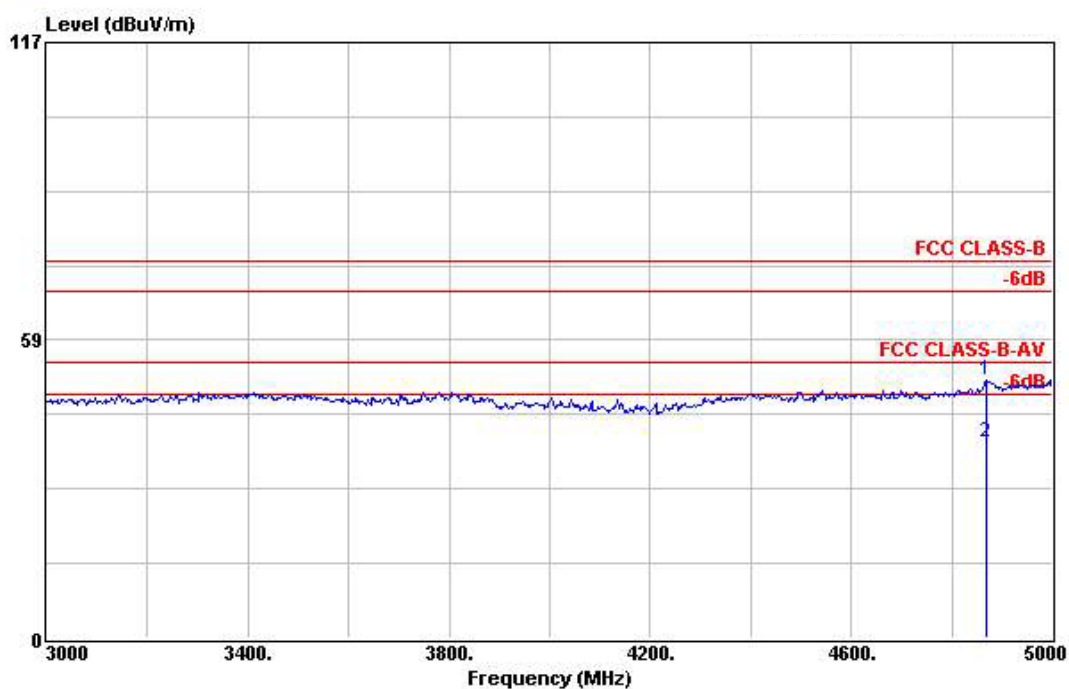
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamplifier Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4876.000	51.94	-22.06	74.00	58.69	33.17	2.52	42.44	Peak	180	344
2	4876.000	42.14	-11.86	54.00	48.89	33.17	2.52	42.44	Average	180	344



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH06

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1156.000	51.83	-22.17	74.00	66.38	24.50	1.22	40.27	Peak	100	265
2	1156.000	33.15	-20.85	54.00	47.70	24.50	1.22	40.27	Average	100	265
3 X	2438.000	99.75			110.86	28.30	1.76	41.17	Peak	---	---
4 X	2438.000	90.24			101.35	28.30	1.76	41.17	Average	100	238

Remark: The "X" represent a fundamental frequency.



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH06

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4868.000	50.60	-23.40	74.00	57.35	33.16	2.52	42.43	Peak	100	313
2	4868.000	38.54	-15.46	54.00	45.29	33.16	2.52	42.43	Average	100	313

For 5GHz ~ 25GHz

Frequency from 5000MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

Frequency	Antenna	Cable	Reading	Preamp	Factor	Limits	Emission	Margin	Detect
Polarity	Factor	Loss							
(MHz)	(dB/m)	(dB)	(dBuV)		(dB)	(dBuV/m)	(dBuV/m)	(dB)	Mode
2438.000	V	28.30	1.76	109.77	41.17	-	98.86	-	Peak
2438.000	V	28.30	1.76	103.68	41.17	-	92.57	-	AV
2438.000	H	28.30	1.76	110.86	41.17	-	99.75	-	Peak
2438.000	H	28.30	1.76	101.35	41.17	-	90.24	-	AV
4876.000	V	33.17	2.52	58.69	42.44	74.00	51.94	-22.06	Peak
4876.000	V	33.17	2.52	48.89	42.44	54.00	42.14	-11.86	AV
4868.000	H	33.16	2.52	57.34	42.43	74.00	50.60	-23.40	Peak
4868.000	H	33.16	2.52	45.28	42.43	54.00	38.54	-15.46	AV
7236.000	V/H	-	-	-	-	-	-	-	AV/Peak
9648.000	V/H	-	-	-	-	-	-	-	AV/Peak
12060.000	V/H	-	-	-	-	-	-	-	AV/Peak
14472.000	V/H	-	-	-	-	-	-	-	AV/Peak
16884.000	V/H	-	-	-	-	-	-	-	AV/Peak
19296.000	V/H	-	-	-	-	-	-	-	AV/Peak
21708.000	V/H	-	-	-	-	-	-	-	AV/Peak
24120.000	V/H	-	-	-	-	-	-	-	AV/Peak

Remark:

1. The emission emitted by the EUT is too low to be measured except the emission listed above,
2. Reading = Reading on SA-Preamp Factor

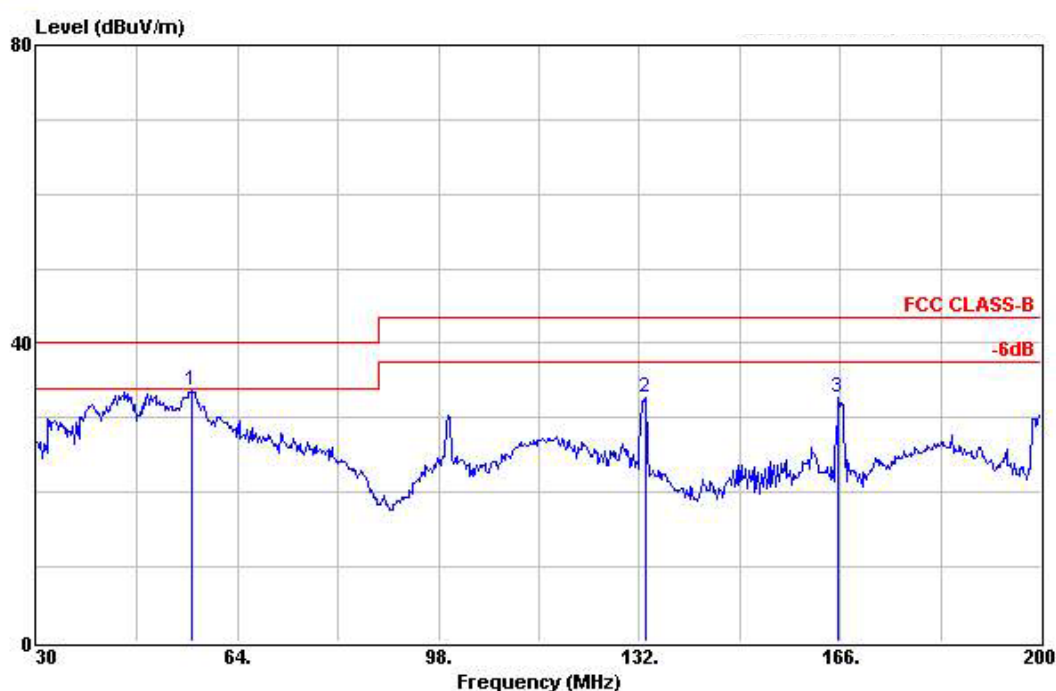
Test Engineer : 

Jay

7.4.6 Test Mode: Mode 6 802.11g TX CH11

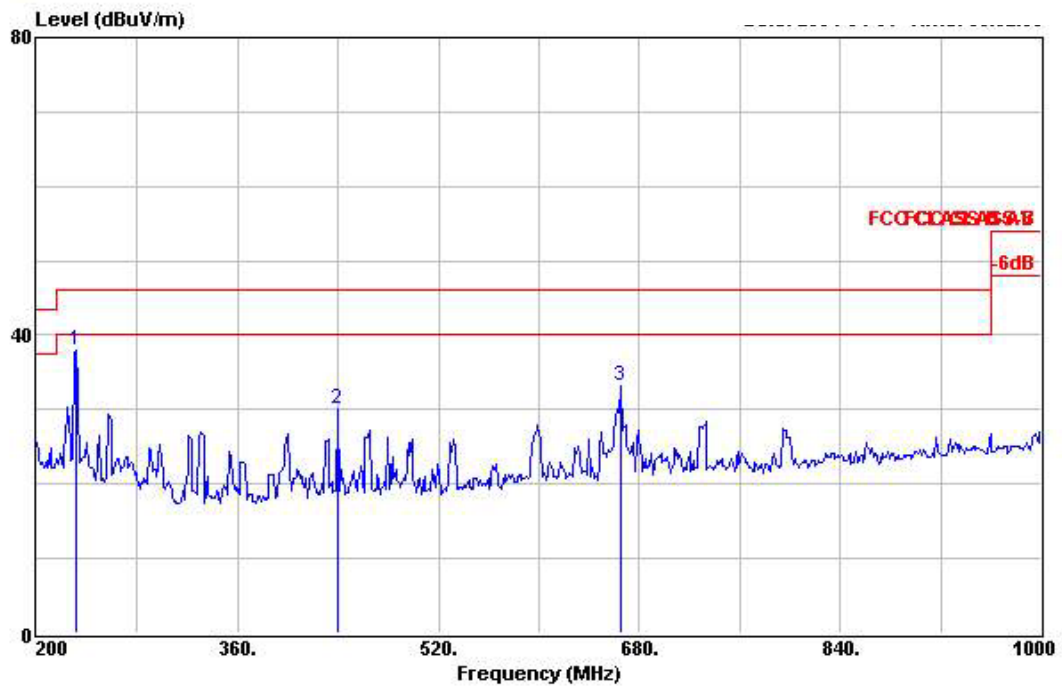
- Test Distance : 3 m
- Temperature : 26°C
- Relative Humidity :55 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading : Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

■ The test that passed at minimum margin was marked by the frame in the following table.



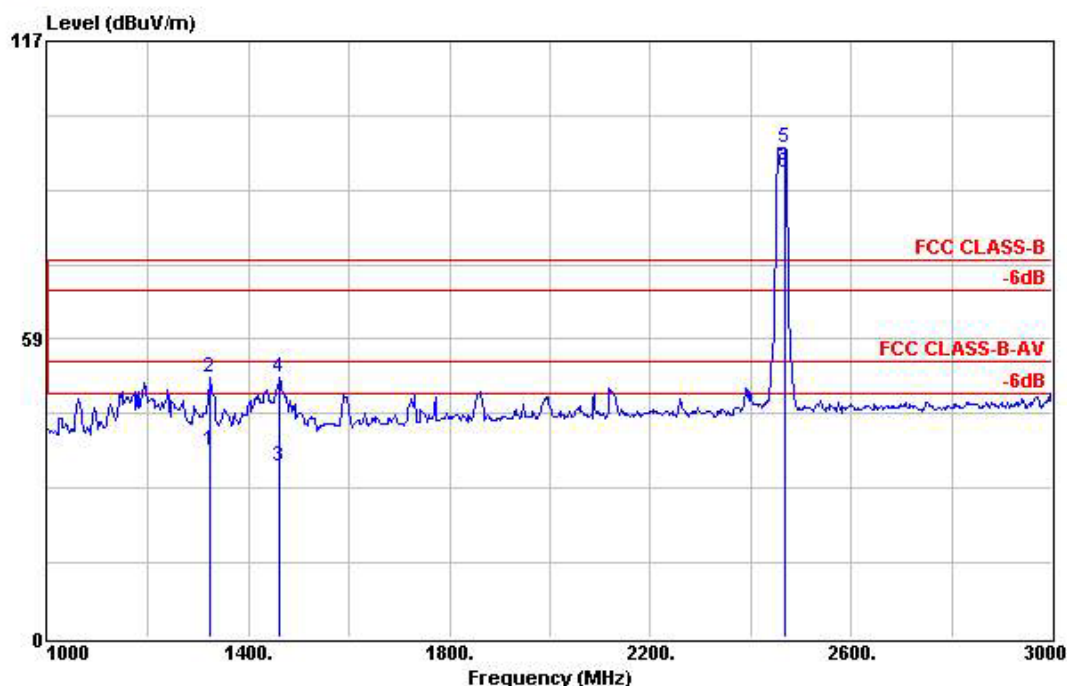
Site : 03CH03-HY
 Condition : FCC CLASS-B 3m BIC-9124--301 VERTICAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH11

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	56.350	33.61	-6.39	40.00	50.02	10.31	1.27	27.99	Peak	---	---
2	133.020	32.62	-10.88	43.50	46.94	11.48	2.03	27.83	Peak	---	---
3	165.660	32.80	-10.70	43.50	45.23	13.01	2.33	27.77	Peak	---	---



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m LOG-9111-221 VERTICAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH11

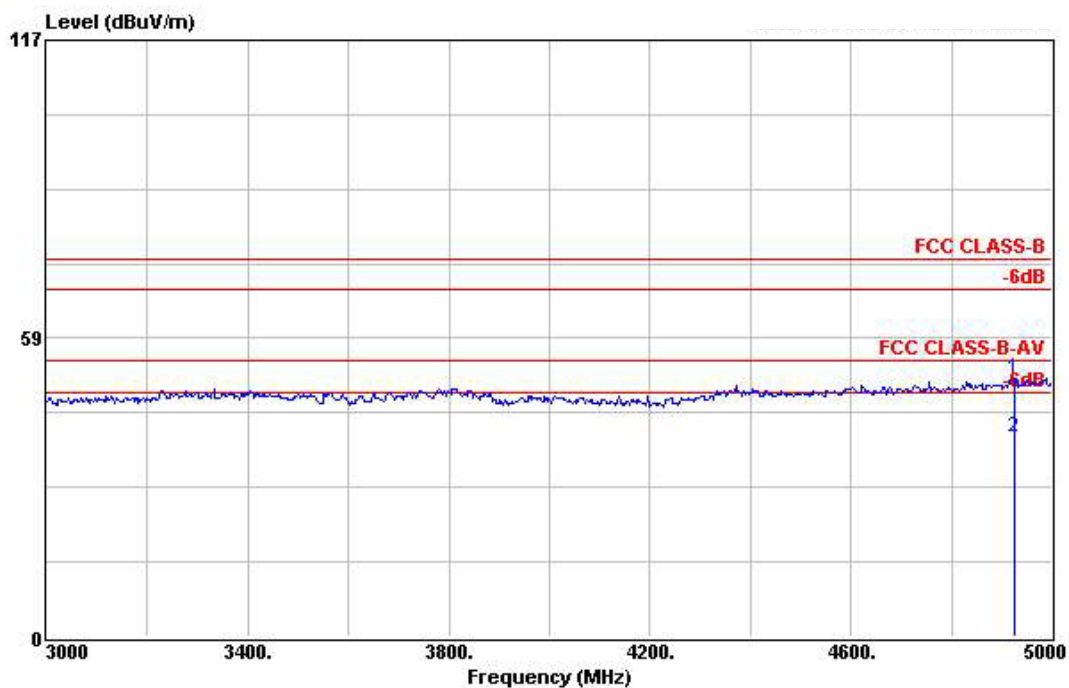
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	231.200	38.08	-7.92	46.00	49.51	13.40	2.75	27.58	Peak	---	---
2	439.200	30.05	-15.95	46.00	38.25	16.31	3.64	28.15	Peak	---	---
3	665.600	33.20	-12.80	46.00	38.18	19.10	4.65	28.73	Peak	---	---



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH11

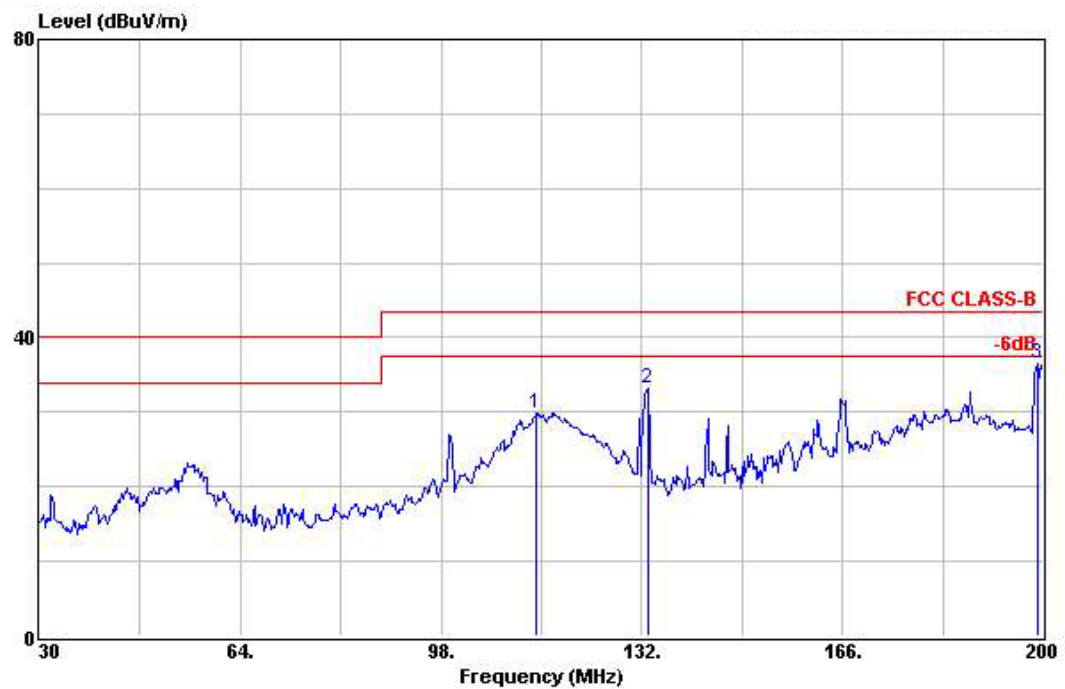
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1324.000	36.74	-17.26	54.00	50.91	24.91	1.36	40.44	Average	100	171
2	1324.000	51.08	-22.92	74.00	65.25	24.91	1.36	40.44	Peak	100	171
3	1462.000	33.45	-20.55	54.00	47.32	25.24	1.46	40.57	Average	100	195
4	1462.000	51.16	-22.84	74.00	65.03	25.24	1.46	40.57	Peak	100	195
5 X	2468.000	96.04			107.08	28.36	1.79	41.19	Peak	100	339
6 X	2468.000	91.04			102.08	28.36	1.79	41.19	Average	100	339

Remark: The "X" represent a fundamental frequency.



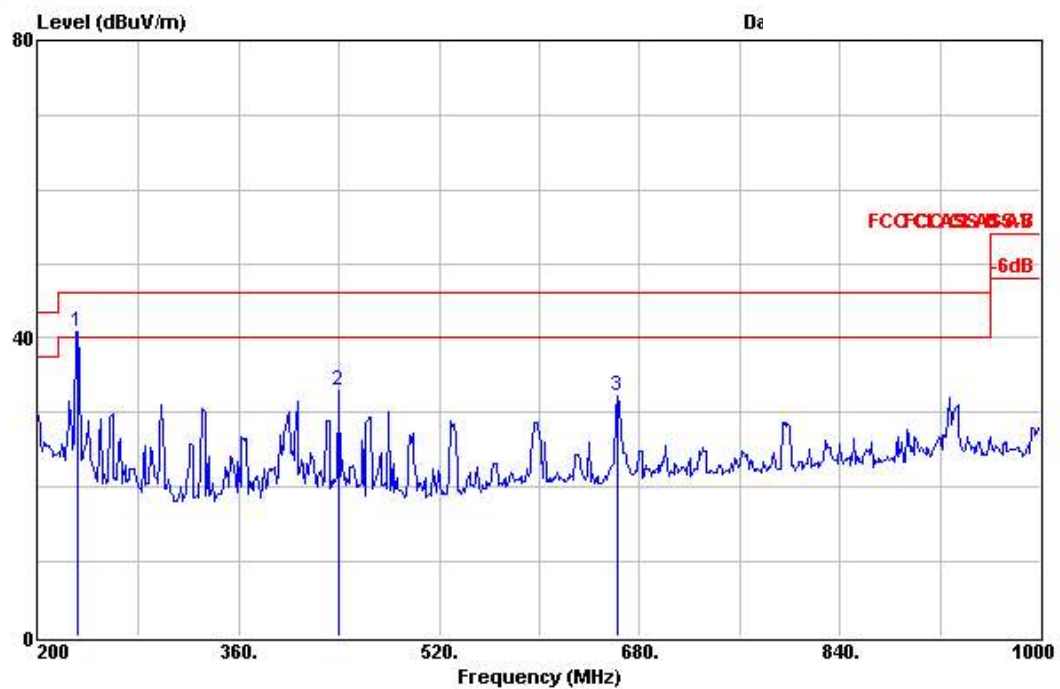
Site : 03CH03-HY
 Condition : FCC CLASS-B 3m HORN-ANT-6741 VERTICAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH11

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4924.000	50.63	-23.37	74.00	57.40	33.27	2.47	42.51	Peak	180	337
2	4924.000	39.21	-14.79	54.00	45.98	33.27	2.47	42.51	Average	180	337



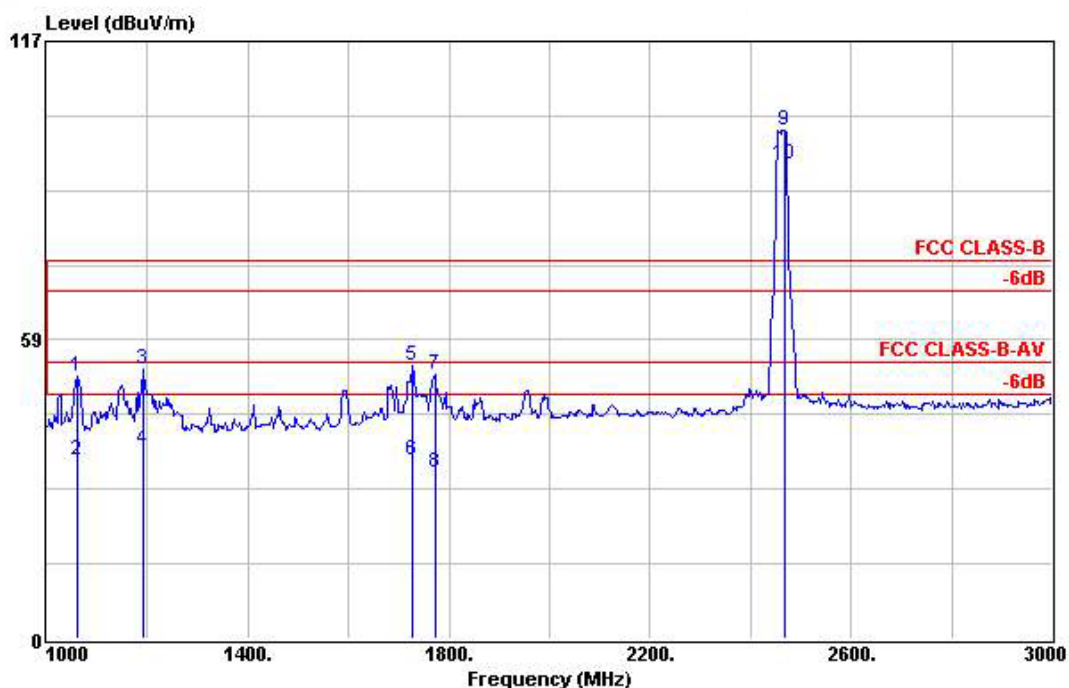
Site : 03CH03-HY
 Condition : FCC CLASS-B 3m BIC-9124--301 HORIZONTAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH11

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	114.150	29.90	-13.60	43.50	45.36	10.50	1.91	27.87	Peak	---	---
2	133.020	33.13	-10.37	43.50	47.45	11.48	2.03	27.83	Peak	---	---
3	198.980	36.47	-7.03	43.50	46.82	14.78	2.57	27.70	Peak	---	---



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m LOG-9111-221 HORIZONTAL
 EUT : PCMCIA
 Power : 23
 Model : EW-7108PCG
 Memo : 11g TX CH11

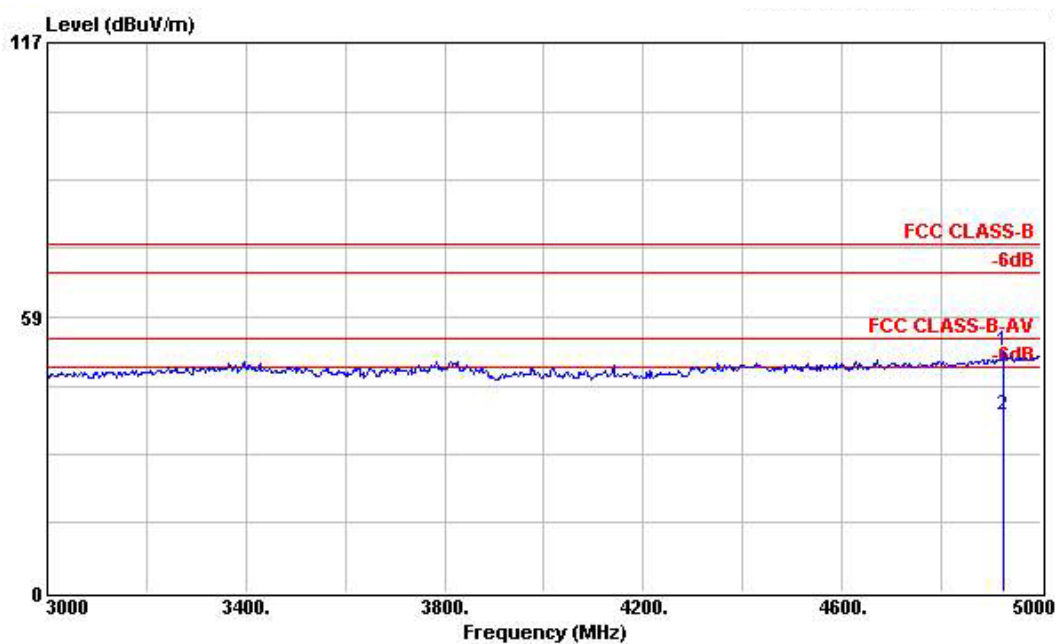
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamplifier	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	231.200	40.76	-5.24	46.00	52.19	13.40	2.75	27.58	Peak	---	---
2	439.200	33.04	-12.96	46.00	41.24	16.31	3.64	28.15	Peak	---	---
3	662.400	32.35	-13.65	46.00	37.38	19.04	4.67	28.74	Peak	---	---



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH11

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	1060.000	51.32	-22.68	74.00	66.03	24.27	1.19	40.17	Peak	100	321
2	1060.000	34.84	-19.16	54.00	49.55	24.27	1.19	40.17	Average	100	321
3	1190.000	52.59	-21.41	74.00	67.09	24.58	1.22	40.30	Peak	100	156
4	1190.000	36.98	-17.02	54.00	51.48	24.58	1.22	40.30	Average	100	156
5	1726.000	53.44	-20.56	74.00	66.44	26.29	1.45	40.74	Peak	100	153
6	1726.000	34.98	-19.02	54.00	47.98	26.29	1.45	40.74	Average	100	153
7	1772.000	51.52	-22.48	74.00	64.28	26.48	1.53	40.77	Peak	100	153
8	1772.000	32.55	-21.45	54.00	45.31	26.48	1.53	40.77	Average	100	153
9 X	2468.000	99.70			110.74	28.36	1.79	41.19	Peak	132	335
10 X	2468.000	93.05			104.09	28.36	1.79	41.19	Average	132	335

Remark: The "X" represent a fundamental frequency.



Site : 03CH03-HY
 Condition : FCC CLASS-B 3m HORN-ANT-6741 HORIZONTAL
 EUT : PCMCIA
 Power :
 Model : EW-7108PCG
 Memo : 11g TX CH11

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp		Ant	Table
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB		cm	deg
1	4926.000	51.33	-22.67	74.00	58.09	33.28	2.47	42.51	Peak	100	314
2	4926.000	37.58	-16.42	54.00	44.34	33.28	2.47	42.51	Average	100	314

For 5GHz ~ 25GHz

Frequency from 5000MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

Frequency	Antenna	Cable	Reading	Preamp	Factor	Limits	Emission	Margin	Detect
Polarity	Factor	Loss							
(MHz)	(dB/m)	(dB)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		Mode
2468.000	V	28.36	1.79	107.08	41.19	-	96.04	-	Peak
2468.000	V	28.36	1.79	102.08	41.19	-	91.04	-	AV
2468.000	H	28.36	1.79	110.74	41.19	-	99.70	-	Peak
2468.000	H	28.36	1.79	104.09	41.19	-	93.05	-	AV
4924.000	V	33.27	2.47	57.40	42.51	74.00	50.63	-23.37	Peak
4924.000	V	33.27	2.47	45.98	42.51	54.00	39.21	-14.79	AV
4926.000	H	33.28	2.47	58.09	42.51	74.00	51.33	-22.67	Peak
4926.000	H	33.28	2.47	44.34	42.51	54.00	37.58	-16.42	AV
7236.000	V/H	-	-	-	-	-	-	-	AV/Peak
9648.000	V/H	-	-	-	-	-	-	-	AV/Peak
12060.000	V/H	-	-	-	-	-	-	-	AV/Peak
14472.000	V/H	-	-	-	-	-	-	-	AV/Peak
16884.000	V/H	-	-	-	-	-	-	-	AV/Peak
19296.000	V/H	-	-	-	-	-	-	-	AV/Peak
21708.000	V/H	-	-	-	-	-	-	-	AV/Peak
24120.000	V/H	-	-	-	-	-	-	-	AV/Peak

Remark:

1. The emission emitted by the EUT is too low to be measured except the emission listed above,
2. Reading = Reading on SA-Preamp Factor

Test Engineer : 

Jay

8. Antenna Requirements

The EUT use a printed PCB antenna without using any RF connector . It is considered to meet antenna requirement of FCC.

8.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no other antenna except assembled by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

8.2. Antenna Connected Construction

The antenna used in this product is printed antenna without using any RF connector.

9. List of Measuring Equipments Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100132	9 KHz – 2.75 GHz	Jun. 12, 2003	Conduction (CO01-HY)
LISN	MessTec	NNB-2/16Z	2001-008	9 KHz – 30 MHz	Apr. 30, 2003	Conduction (CO01-HY)
LISN (Support Unit)	MessTec	NNB-2/16Z	2001-009	9 KHz – 30 MHz	Apr. 30, 2003	Conduction (CO01-HY)
EMI Filter	LINDGREN	LRE-2060	1004	< 450 Hz	N/A	Conduction (CO01-HY)
EMI Filter	LINDGREN	N6006	201052	0 ~ 60 Hz	N/A	Conduction (CO01-HY)
RF Cable-CON	Suhner Switzerland	RG223/U	CB029	9KHz~30MHz	Dec. 24, 2003	Conduction (CO01-HY)
50 ohm BNC type Terminal	NOBLE	50ohm	TM013	50 ohm	Apr. 24, 2003	Conduction (CO01-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	Jun. 21, 2003	Radiation (03CH03-HY)
Spectrum analyzer	R&S	FSP40	100004	9KHz~40GHz	Aug. 23, 2003	Radiation (03CH03-HY)
Amplifier	HP	8447D	2944A09072	100KHz – 1.3GHz	Nov. 05, 2003	Radiation (03CH03-HY)
Biconical Antenna	SCHWARZBECK	VHBB 9124	301	30MHz – 200MHz	Jul. 24, 2003	Radiation (03CH03-HY)
Log Antenna	SCHWARZBECK	VUSLP 9111	221	200MHz -1GHz	Jul. 24, 2003	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz~1GHz	Dec. 03, 2003	Radiation (03CH03-HY)
Amplifier	MITEQ	AFS44	879981	100MHz~26.5GHz	Jul. 23, 2003	Radiation (03CH03-HY)
Horn Antenna	COM-POWER	3115	6741	1GHz – 18GHz	Apr. 08, 2003	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)
Horn Antenna	Schwarzbeck	BBHA9170	154	15GHz~40GHz	Jun. 02, 2003	Radiation (03CH03-HY)
RF Cable-HIGH	Jye Bao	RG142	CB030-HIGH	1GHz~29.5GHz	Dec. 05, 2003	Radiation (03CH03-HY)

※ Calibration Interval of instruments listed above is one year, except for Horn Antenna, BBHA9170.

※ Calibration Interval of instruments listed above is one year.

10. Uncertainty Measurement

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.10	Normal(k=2)	0.05
Cable loss	0.10	Normal(k=2)	0.05
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.39	Rectangular	0.80
Mismatch Receiver VSWR Γ_1 = LISN VSWR Γ_2 = Uncertainty= $20\log(1-\Gamma_1*\Gamma_2)$	+0.34/-0.35	U-shape	0.24
combined standard uncertainty Uc(y)	1.13		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.26		

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.15	Normal(k=2)	0.08
Antenna factor calibration	1.12	Normal(k=2)	0.56
Cable loss calibration	0.12	Normal(k=2)	0.06
Pre Amplifier Gain calibration	0.13	Normal(k=2)	0.07
RCV/SPA specification	2.5	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1	Rectangular	0.29
Site imperfection	2.1	Rectangular	1.21
Mismatch Receiver VSWR Γ_1 = 0.20 Antenna VSWR Γ_2 = 0.23 Uncertainty= $20\log(1-\Gamma_1*\Gamma_2)$	+0.39/-0.41	U-shaped	0.28
combined standard uncertainty Uc(y)	1.58		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	3.16		

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncertainty of x_i		$u(x_i)$	C_i	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	± 0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	± 1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	± 0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	± 2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	± 1.50	Rectangular	0.87	1	0.87
Site imperfection	± 2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20 \log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty $U_c(y)$	2.36				
Measuring uncertainty for a level of confidence of 95% $U = 2U_c(y)$	4.72				