



FCC Test Report

According to

47 CFR Part 15 Subpart C

Equipment : Tablet computer

Trade Name : CReTE

Model No. : DR886 EX

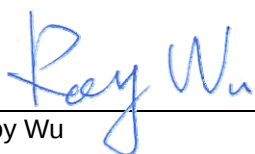
FCC ID : IR5DR886EX

Filing Type : Certification

Applicant : CReTE SYSTEMS INC.

7F, No. 250, Sec. 3, Pei Shen Rd., Shen Keng
Hsiang, Taipei County, Taiwan

- The CReTE / DR886 EX is use Intel / WM3945ABG WLAN module. Therefore, only retest RSE in this report and all test data of conducted can be referred to Aegis report number INTEL-060331F as appendix C.
- The test result refers exclusively to the test presented test model / sample.
- Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.
- The data shown in this test report were carried out on Aug. 17, 2008 at **Sporton International Inc. LAB.**
- Report No.: FR840719A, Report Version: Rev.02



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Report Version: Rev.02

Table of Contents

History of this test report	ii
1. General Description of Equipment under Test.....	1
1.1 Applicant.....	1
1.2 Manufacturer	1
1.3 Basic Description of Accessories.....	1
1.4 Feature of Equipment under Test.....	1
2. Test Configuration of Equipment under Test	2
2.1 Test Manner	2
2.2 Test Mode	2
2.3 Connection Diagram of Test System	2
3. RF Utility	3
4. General Information of Test	4
4.1 Test Voltage	4
4.2 Standard for Methods of Measurement	4
4.3 Test Compliance.....	4
4.4 Frequency Range	4
4.5 Test Distance.....	4
5. Test Data and Test Result	5
5.1 List of Measurements and Examinations.....	5
5.2 Radiated Emission Measurement.....	6
5.3 Antenna Requirements	44
6. List of Measuring Equipments	45
7. Uncertainty Evaluation	46
Appendix A. Photographs of EUT	
Appendix B. Setup Photographs	
Appendix C. WLAN Module Report	

History of this test report

Report Issue Date: Aug. 20, 2008

Report No.	Description

1. General Description of Equipment under Test

1.1 Applicant

CReTE SYSTEMS INC.

7F, No. 250, Sec. 3, Pei Shen Rd., Shen Keng Hsiang, Taipei County, Taiwan

1.2 Manufacturer

CReTE SYSTEMS INC.

7F, No. 250, Sec. 3, Pei Shen Rd., Shen Keng Hsiang, Taipei County, Taiwan

1.3 Basic Description of Accessories

AC Adapter	Brand Name	FranMar
	Model Name	F10903-A
	Power Rating	I/P: 100-240Vac, 50-60Hz, 1.2A; O/P: 19Vdc, 4.75A
Battery	Brand Name	J.S. POWER
	Model Name	BD83A
	Power Rating	11.1Vdc, 4800mAh
	Type	Li-ion

Remark: Above EUT's information was declared by manufacturer. Please refer to the specifications of manufacturer or User's Manual for more detailed features description.

1.4 Feature of Equipment under Test

Product Feature & Specification	
DUT Type :	Tablet computer
Trade Name :	CReTE
Model Name :	DR886 EX
FCC ID :	IR5DR886EX
Frequency Range :	802.11b/g : 2400 MHz ~ 2483.5 MHz 802.11a : 5725 MHz ~ 5850 MHz
Number of Channels :	802.11b/g : 11 802.11a : 5
Carrier Frequency of Each Channel :	802.11b/g : 2412+(n-1)*5 MHz; n=1~11 802.11a : 5000+n*5 MHz, n=149, 153, 157, 161, 165
Type of Antenna Connector :	N/A
Antenna Type :	PIFA Antenna
Antenna Gain :	-1 dBi
HW Version :	V03
WLAN Module :	Intel / WM3945ABG
Type of Modulation :	DSSS / OFDM
DUT Stage :	Production Unit

2. Test Configuration of Equipment under Test

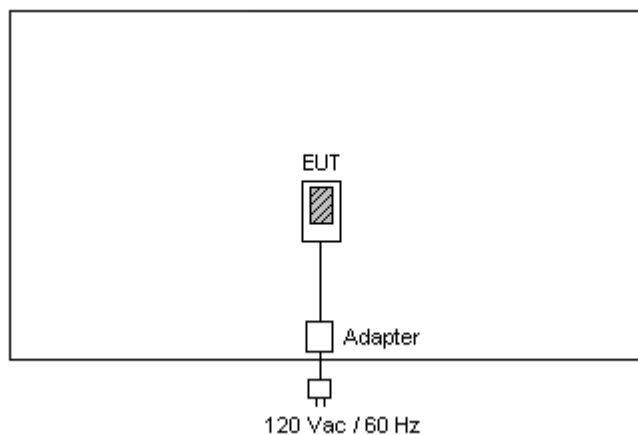
2.1 Test Manner

- The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.
- The EUT is programmed to transmit signal continuously for all testings.
- Frequency range investigated: radiation 30 MHz to 25000MHz.
- All test data of conducted can be referred to Aegis report number INTEL-060331F as appendix C.

2.2 Test Mode

Application	Test Mode		
Radiated Emission	802.11b	802.11g	802.11a
	Mode 1: CH01_2412 MHz	Mode 4: CH01_2412 MHz	Mode 7: CH149_5745 MHz
	Mode 2: CH06_2437 MHz	Mode 5: CH06_2437 MHz	Mode 8: CH157_5785 MHz
	Mode 3: CH11_2462 MHz	Mode 6: CH11_2462 MHz	Mode 9: CH165_5825 MHz

2.3 Connection Diagram of Test System



3. RF Utility

Programmed RF utility "CRTU" installed in EUT provides functions like channel selection and power level for continuous transmitting and receiving signal.

4. General Information of Test

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
TEL : 886-3-327-3456
FAX : 886-3-328-4978
Test Site No : 03CH06-HY
FCC Designation No : TW1022

4.1 Test Voltage

AC 120V / 60Hz

4.2 Standard for Methods of Measurement

ANSI C63.4-2003

4.3 Test Compliance

47 CFR Part 15 Subpart C

4.4 Frequency Range

a. Radiation: from 30 MHz to 25000 MHz

4.5 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.

5. Test Data and Test Result

5.1 List of Measurements and Examinations

The Emission Mode: Wireless LAN

FCC Rule	Description of Test	Result
15.209(a) 15.247(d)	Radiated Emission	Pass

5.2 Radiated Emission Measurement

5.2.1 Measuring Instruments

As described in chapter 6 of this Report.

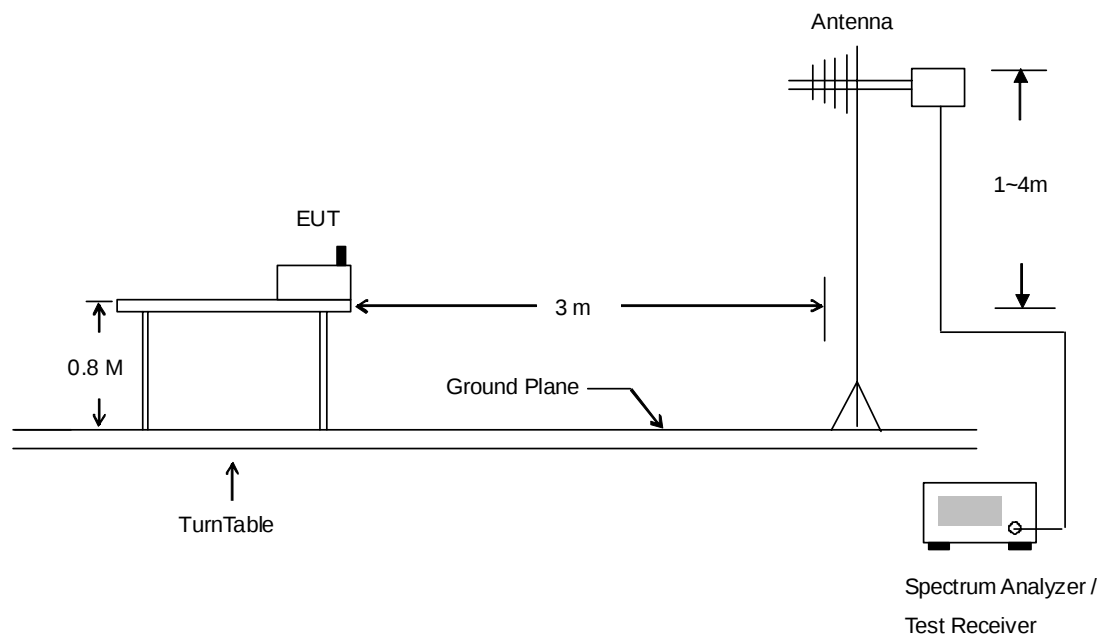
The spectrum analyzer setting :

30 ~ 1000 MHz	Detector : Quasi – Peak Bandwidth : 120 KHz
1 ~ 25 GHz	Detector : Peak and Average Bandwidth : 1 MHz

5.2.2 Test Procedures

1. The EUT was placed on a rotatable table top 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. For testing below 1GHz, If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average 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.

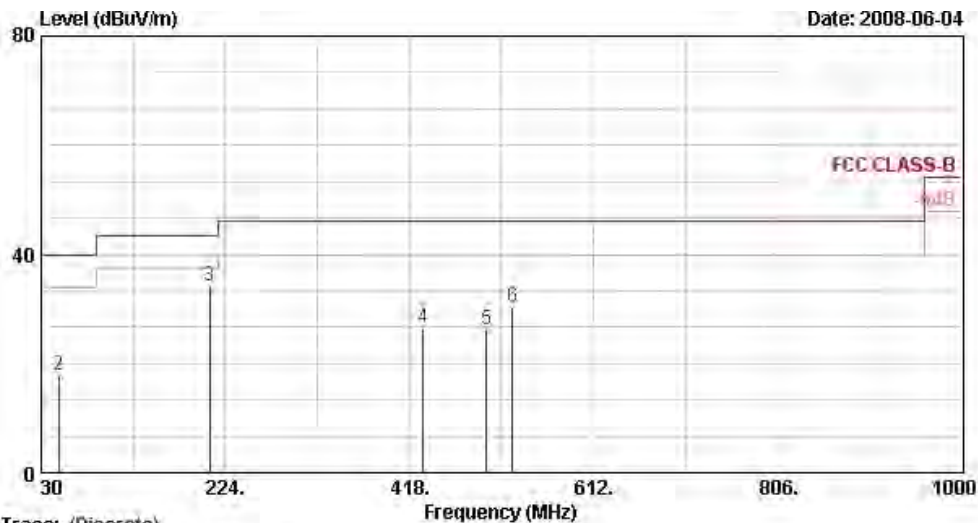
5.2.3 Typical Test Setup Layout of Radiated Emission



5.2.4 Test Data

- Temperature : 21~26°C
- Relating Humidity : 49~58%
- Test Enginner : Sun
- Test Mode : Mode 1
- Polarization : Horizontal (30MHz-1GHz)

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

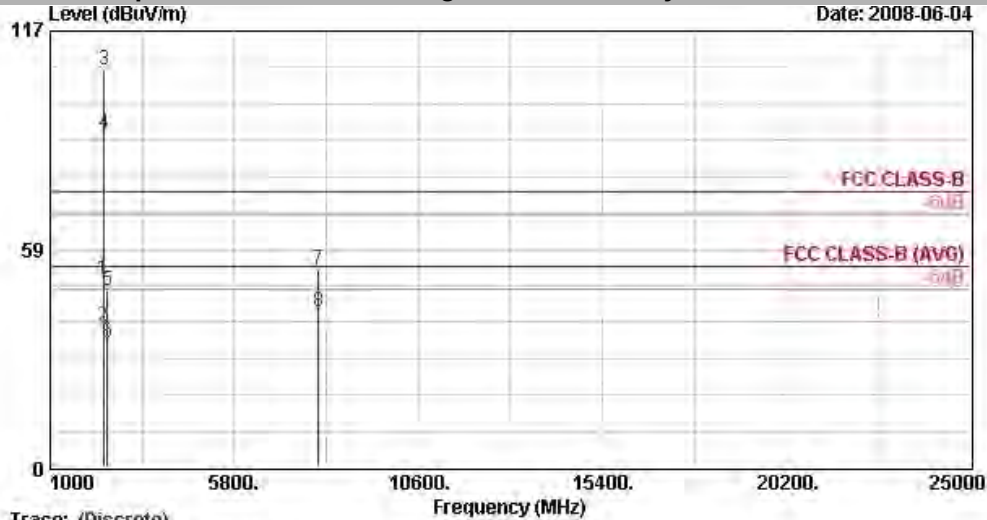


Trace: (Discrete)
 Site : D3CH08-RV
 Condition : FCC CLASS-B 3m LF-ANT(951121) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 1
 Data Rate : 11

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	22.77	-17.23	40.00	36.31	19.66	0.30	33.50	---	---	Peak
2	48.63	17.92	-22.08	40.00	41.69	9.06	0.30	33.14	---	---	Peak
3 @	207.39	34.13	-9.37	43.50	57.28	9.76	0.60	33.52	100	259	Peak
4	432.30	26.47	-19.53	46.00	42.48	16.31	0.83	33.15	---	---	Peak
5	498.80	26.09	-19.91	46.00	41.05	17.40	0.98	33.34	---	---	Peak
6	526.80	30.41	-15.59	46.00	45.00	17.70	0.93	33.22	---	---	Peak

- Polarization : Horizontal (1GHz-25GHz)

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



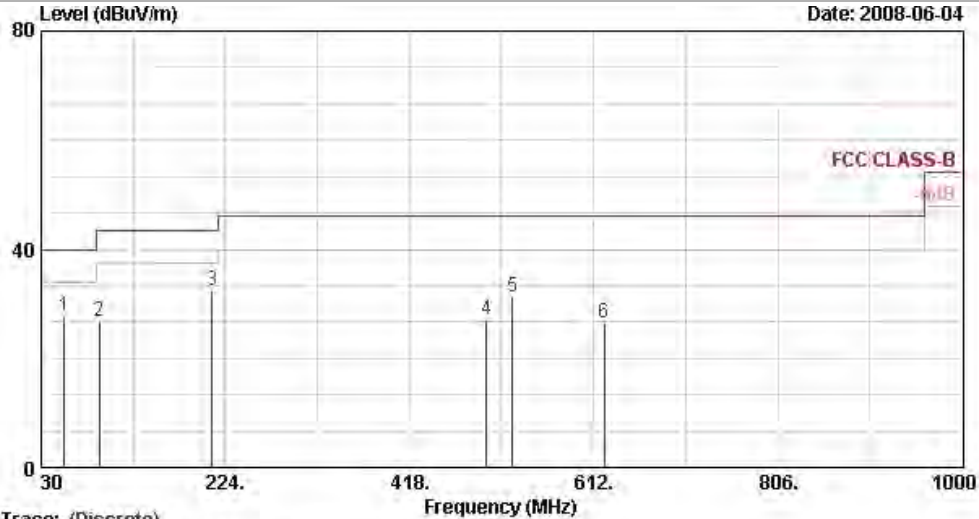
Trace: (Discrete)
 Site : D3CR06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 1
 Data Rate : 11

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2385.05	50.27	-23.73	74.00	50.17	31.86	3.92	35.68	100	0 Peak
2	2385.05	37.77	-16.23	54.00	37.69	31.83	3.92	35.68	100	228 Average
3 @	2412.00	106.53			106.38	31.88	3.95	35.68	100	0 Peak
4 @	2412.00	89.77			89.62	31.88	3.95	35.68	100	228 Average
5	2486.00	47.25	-26.75	74.00	46.92	31.98	4.05	35.70	100	0 Peak
6	2486.00	33.29	-20.71	54.00	32.96	31.98	4.05	35.70	100	228 Average
7	7986.00	53.08	-20.92	74.00	46.17	35.70	7.51	36.30	100	0 Peak
8	7986.00	41.93	-12.07	54.00	35.02	35.70	7.51	36.30	100	279 Average

Remark: #3 and #4 are Fundamental Signals

- Polarization : Vertical (30MHz-1GHz)

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

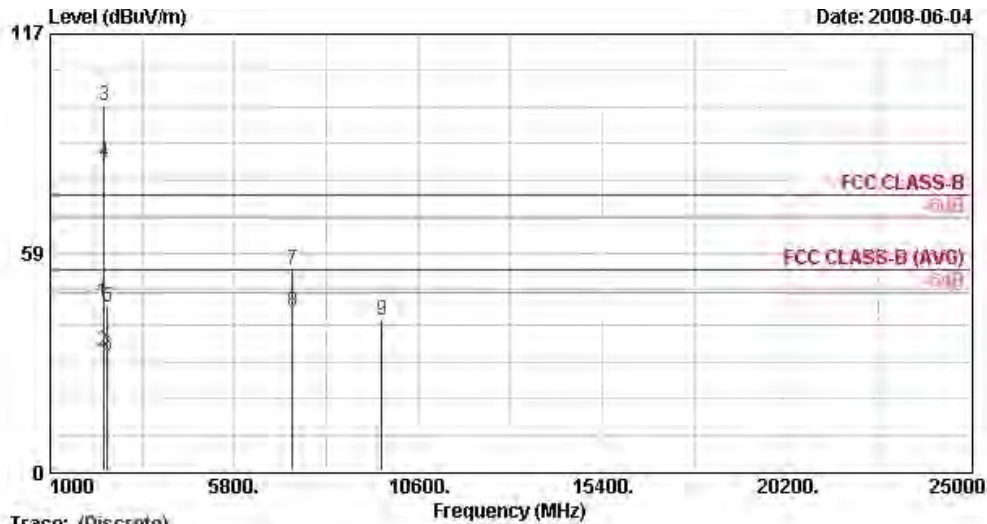


Trace: (Discrete)
 Site : D3CH06-HY
 Condition : FCC CLASS-B 3m LP-ANT(051121) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 1
 Data Rate : 11

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	54.03	27.63	-12.37	40.00	53.08	7.50	0.38	33.33	---	---	Peak
2	91.29	26.90	-16.60	43.50	50.47	9.23	0.50	33.30	---	---	Peak
3	210.09	32.33	-11.17	43.50	55.32	9.93	0.60	33.51	100	171	Peak
4	498.80	27.04	-18.96	46.00	42.01	17.40	0.98	33.34	---	---	Peak
5	526.80	31.30	-14.70	46.00	45.89	17.70	0.93	33.22	---	---	Peak
6	623.40	26.50	-19.50	46.00	39.80	18.57	1.06	32.93	---	---	Peak

- Polarization : Vertical (1GHz-25GHz)

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



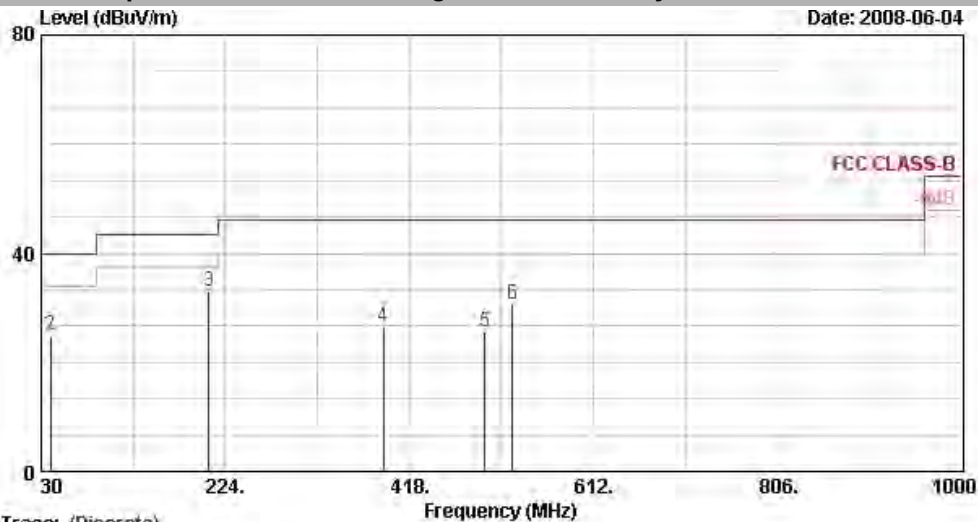
Site : D3CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
EUT : 手提電腦
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode 1
Data Rate : 11

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2388.85	45.12	-28.88	74.00	45.02	31.88	3.92	35.68	100	0 Peak
2	2388.85	32.22	-21.78	54.00	32.12	31.88	3.92	35.68	181	95 Average
3 @	2412.00	97.87			97.71	31.88	3.95	35.68	100	0 Peak
4 @	2412.00	82.43			82.28	31.88	3.95	35.68	181	95 Average
5	2500.00	44.04	-29.96	74.00	43.89	32.00	4.05	35.70	100	0 Peak
6	2500.00	30.98	-23.02	54.00	30.83	32.00	4.05	35.70	181	95 Average
7	7311.00	53.88	-20.12	74.00	47.13	35.68	7.20	36.12	100	0 Peak
8	7311.00	42.77	-11.23	54.00	36.01	35.68	7.20	36.12	100	149 Average
9	9642.00	40.55	-33.45	74.00	79.43	-10.09	7.94	36.73	100	0 Peak

Remark: #3 and #4 are Fundamental Signals

- Test Mode : Mode 2
- Polarization : Horizontal (30MHz-1GHz)

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

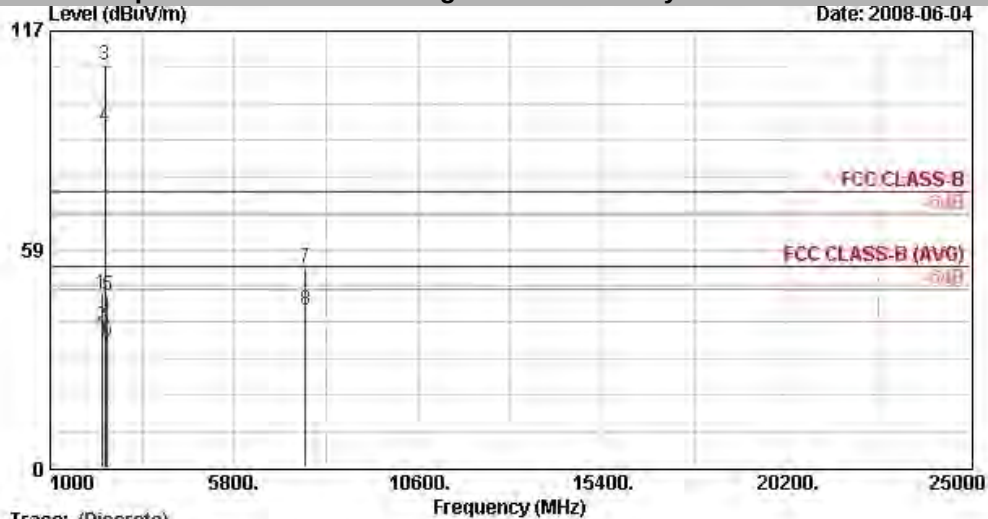


Trace: (Discrete)
 Site : D3CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(051121) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 2
 Data Rate : 11

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	23.81	-16.19	40.00	37.35	19.66	0.30	33.50	---	---	Peak
2	39.99	24.87	-15.13	40.00	44.26	13.51	0.30	33.20	---	---	Peak
3 @	208.58	33.16	-10.34	43.50	56.38	9.70	0.60	33.52	100	172	Peak
4	390.30	26.34	-19.66	46.00	43.10	15.51	0.80	33.08	---	---	Peak
5	497.40	25.67	-20.33	46.00	40.66	17.38	0.97	33.34	---	---	Peak
6	526.80	30.50	-15.50	46.00	45.09	17.70	0.93	33.22	---	---	Peak

- Polarization : Horizontal (1GHz-25GHz)

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



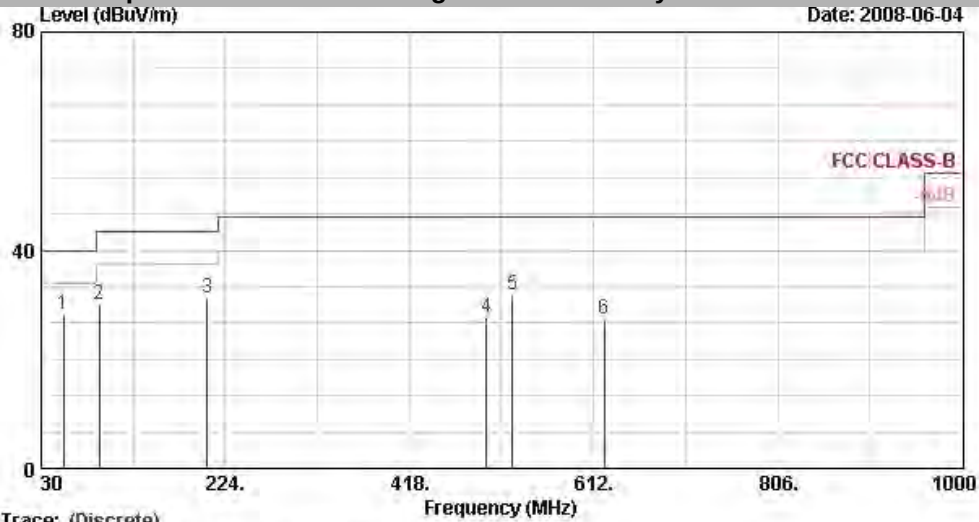
Trace: (Discrete)
 Site : D3CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 2
 Data Rate : 11

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2334.00	46.37	-27.63	74.00	46.42	31.76	3.86	35.67	100	0	Peak
2	2334.00	37.89	-16.11	54.00	37.94	31.76	3.86	35.67	100	230	Average
3 @	2437.00	107.74			107.54	31.90	3.99	35.69	100	0	Peak
4 @	2437.00	91.16			90.93	31.93	3.99	35.69	100	230	Average
5	2500.00	46.01	-27.99	74.00	45.66	32.00	4.05	35.70	100	0	Peak
6	2500.00	33.83	-20.17	54.00	33.48	32.00	4.05	35.70	100	230	Average
7	7656.00	53.29	-20.71	74.00	46.54	35.63	7.34	36.23	100	0	Peak
8	7656.00	42.05	-11.95	54.00	35.31	35.63	7.34	36.23	100	85	Average

Remark: #3 and #4 are Fundamental Signals

- Polarization : Vertical (30MHz-1GHz)

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

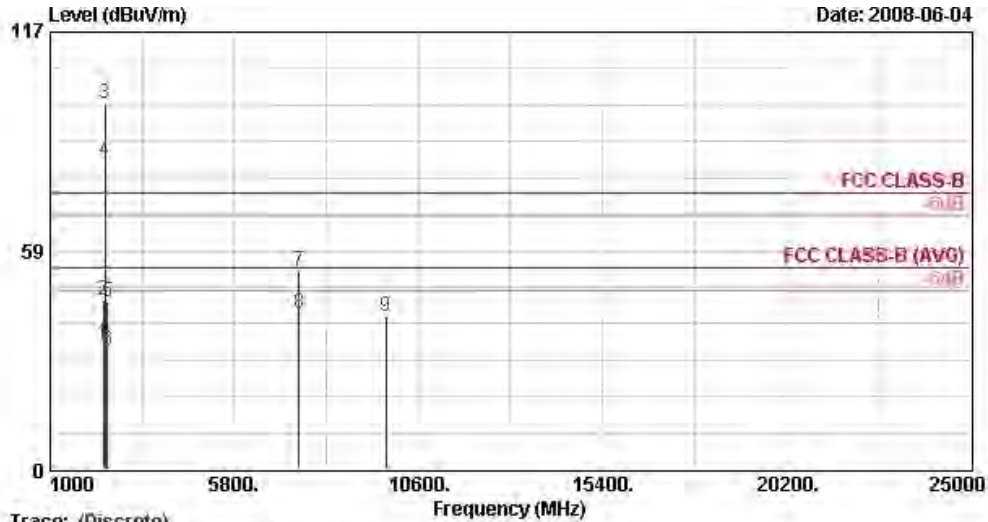


Trace: (Discrete)
 Site : D3CH06-HY
 Condition : FCC CLASS-B 3m LP-ANT(051121) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 2
 Data Rate : 11

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	53.49	28.25	-11.75	40.00	53.53	7.64	0.36	33.28	100	218 Peak
2	91.29	30.09	-13.41	43.50	53.66	9.23	0.50	33.30	---	--- Peak
3	204.69	31.29	-12.21	43.50	54.63	9.59	0.60	33.52	---	--- Peak
4	498.80	27.75	-18.25	46.00	42.72	17.40	0.98	33.34	---	--- Peak
5	526.80	31.71	-14.29	46.00	46.30	17.70	0.93	33.22	---	--- Peak
6	623.40	27.25	-18.75	46.00	40.55	18.57	1.06	32.93	---	--- Peak

- Polarization : Vertical (1GHz-25GHz)

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



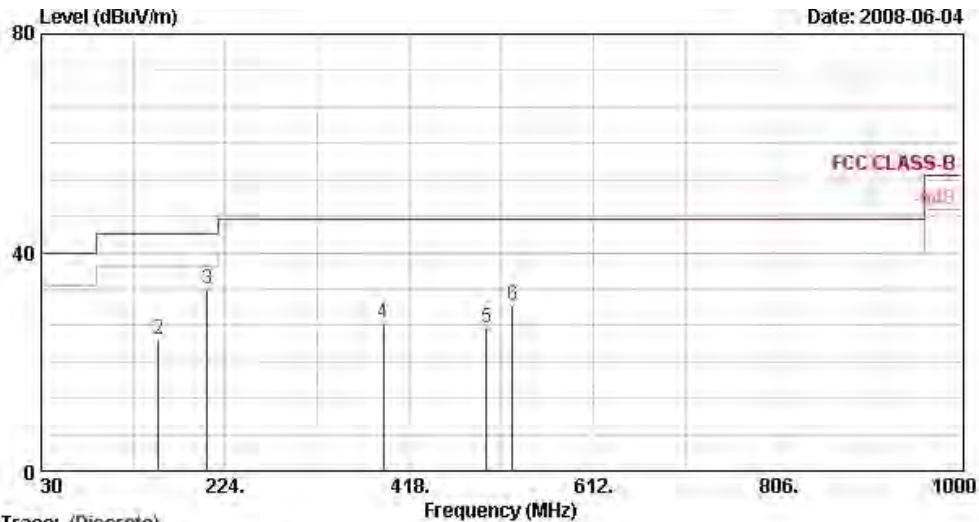
Site : D3CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
EUT : 手機電腦
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode 2
Data Rate : 11

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.00	33.49	-20.51	54.00	33.39	31.86	3.92	35.68	100	106 Average
2	2390.00	45.38	-28.62	74.00	45.28	31.86	3.92	35.68	100	0 Peak
3 @	2437.00	97.89			97.69	31.90	3.99	35.69	100	0 Peak
4 @	2437.00	82.53			82.30	31.93	3.99	35.69	100	106 Average
5	2484.00	44.81	-29.19	74.00	44.48	31.98	4.05	35.70	100	0 Peak
6	2484.00	31.55	-22.45	54.00	31.22	31.98	4.05	35.70	100	106 Average
7	7482.00	53.09	-20.91	74.00	46.41	35.61	7.26	36.19	100	0 Peak
8	7482.00	41.92	-12.08	54.00	35.24	35.61	7.26	36.19	100	204 Average
9	9747.00	40.78	-33.22	74.00	79.39	-9.85	7.98	36.75	100	0 Peak

Remark: #3 and #4 are Fundamental Signals

- Test Mode : Mode 3
- Polarization : Horizontal (30MHz-1GHz)

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

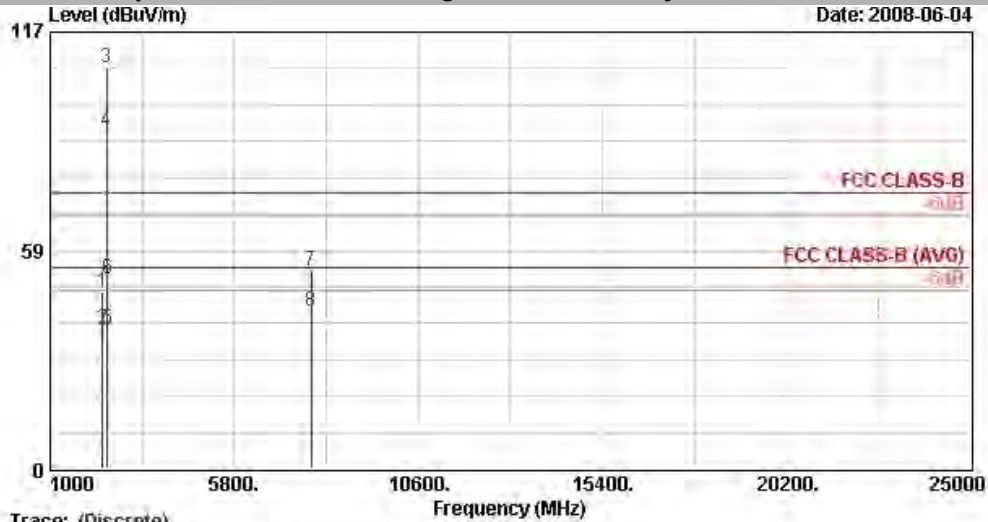


Trace: (Discrete)
 Site : D3CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(951121) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 3
 Data Rate : 11

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	23.74	-16.26	40.00	37.28	19.66	0.30	33.50	---	---	Peak
2	153.93	24.11	-19.39	43.50	46.75	10.29	0.60	33.53	---	---	Peak
3	204.69	33.40	-10.10	43.50	56.73	9.59	0.60	33.52	100	121	Peak
4	390.30	27.01	-18.99	46.00	43.78	15.51	0.80	33.08	---	---	Peak
5	498.80	26.09	-19.91	46.00	41.05	17.40	0.98	33.34	---	---	Peak
6	526.80	30.22	-15.78	46.00	44.81	17.70	0.93	33.22	---	---	Peak

- Polarization : Horizontal (1GHz-25GHz)

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



Trace: (Discrete)

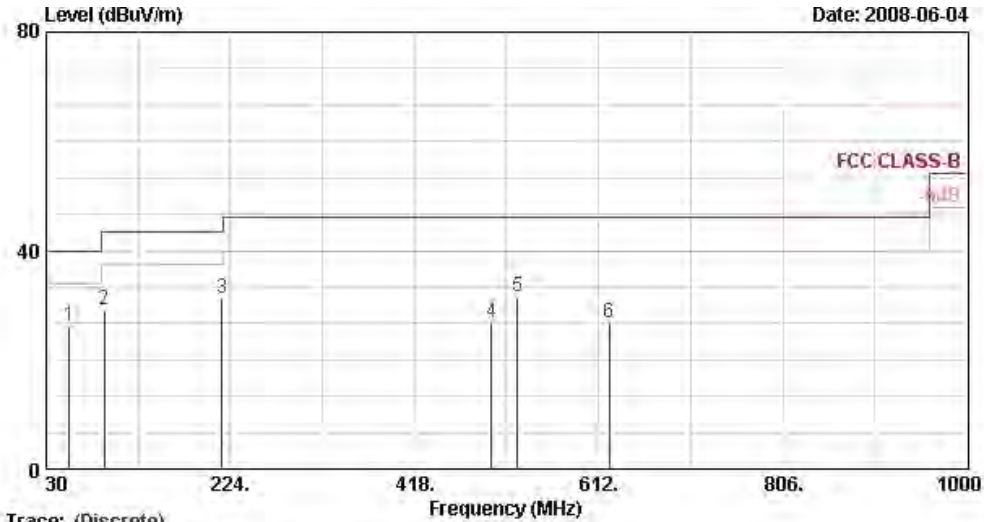
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
EUT : 手機電腦
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode 3
Data Rate : 11

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2358.00	47.44	-26.56	74.00	47.41	31.81	3.89	35.67	100	0	Peak
2	2358.00	37.53	-16.47	54.00	37.51	31.81	3.89	35.67	100	228	Average
3 @	2462.00	107.48			107.20	31.95	4.02	35.69	100	0	Peak
4 @	2462.00	90.63			90.35	31.95	4.02	35.69	100	228	Average
5	2491.26	37.34	-16.66	54.00	36.99	32.00	4.05	35.70	100	228	Average
6	2491.26	50.70	-23.30	74.00	50.37	31.98	4.05	35.70	100	0	Peak
7	7812.00	53.23	-20.77	74.00	46.40	35.66	7.42	36.26	100	0	Peak
8	7812.00	42.07	-11.93	54.00	35.24	35.66	7.42	36.26	100	103	Average

Remark: #3 and #4 are Fundamental Signals

- Polarization : Vertical (30MHz-1GHz)

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



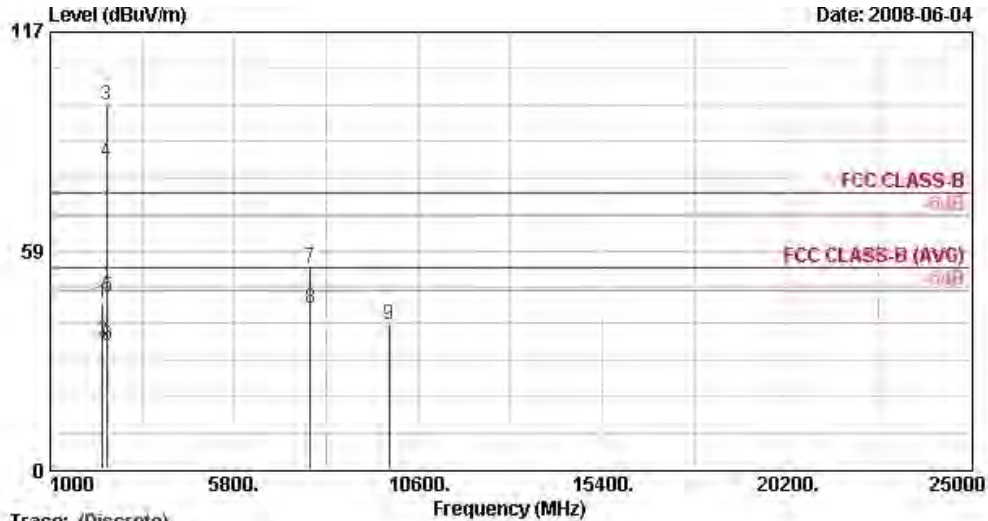
Trace: (Discrete)

Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(951121) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 3
 Data Rate : 11

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	54.03	26.18	-13.82	40.00	51.63	7.50	0.38	33.33	---	Peak
2	91.29	29.04	-14.46	43.50	52.61	9.23	0.50	33.30	---	Peak
3	215.49	31.18	-12.32	43.50	53.82	10.21	0.65	33.50	100	192 Peak
4	498.80	26.88	-19.12	46.00	41.84	17.40	0.98	33.34	---	Peak
5	526.80	31.66	-14.34	46.00	46.25	17.70	0.93	33.22	---	Peak
6	623.40	26.86	-19.14	46.00	40.16	18.57	1.06	32.93	---	Peak

- Polarization : Vertical (1GHz-25GHz)

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



Trace: (Discrete)

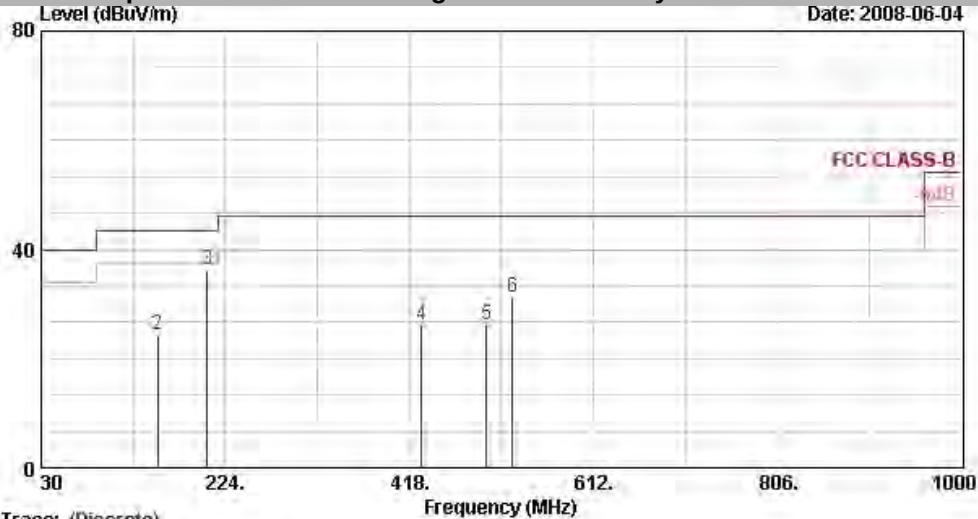
Site : D3CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
EUT : 平板电脑
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode 3
Data Rate : 11

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2356.00	44.56	-29.44	74.00	44.56	31.81	3.86	35.67	100	0 Peak
2	2356.00	34.21	-19.79	54.00	34.22	31.81	3.86	35.67	100	107 Average
3 X	2462.00	97.55			97.27	31.95	4.02	35.69	100	0 Peak
4 @	2462.00	82.25			81.97	31.95	4.02	35.69	100	107 Average
5	2485.94	46.04	-27.96	74.00	45.71	31.98	4.05	35.70	100	0 Peak
6	2485.94	33.24	-20.76	54.00	32.91	31.98	4.05	35.70	100	107 Average
7	7776.00	53.91	-20.09	74.00	47.11	35.66	7.40	36.26	100	0 Peak
8	7776.00	42.84	-11.16	54.00	36.04	35.66	7.40	36.26	100	201 Average
9	9846.00	38.60	-35.40	74.00	76.97	-9.63	8.04	36.77	100	0 Peak

Remark: #3 and #4 are Fundamental Signals

- Test Mode : Mode 4
- Polarization : Horizontal (30MHz-1GHz)

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



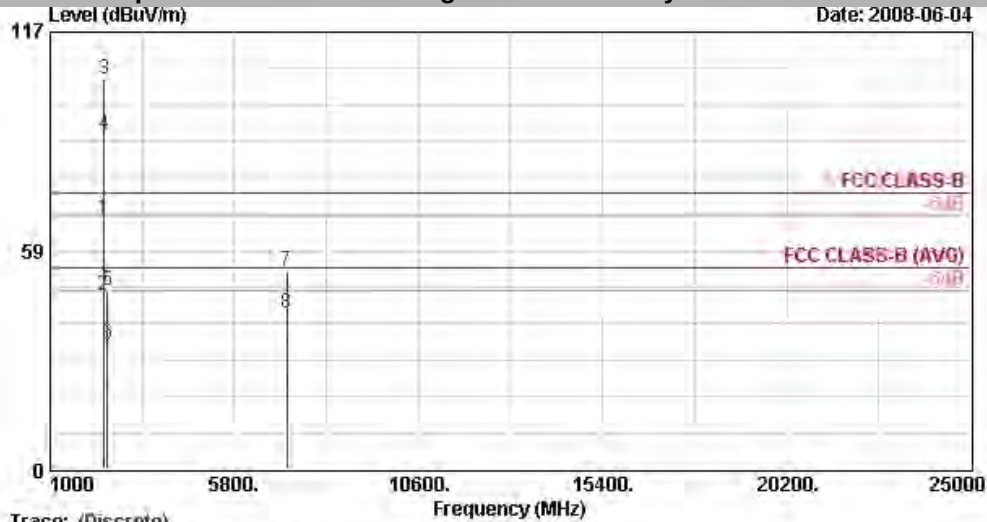
Trace: (Discrete)

Site : D3CH06-RY
Condition : FCC CLASS-B 3m LF-ANT(051121) HORIZONTAL
EUT : 平板电脑
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode 4
Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	23.67	-16.33	40.00	37.21	19.66	0.30	33.50	---	---	Peak
2	152.58	24.53	-18.97	43.50	47.13	10.35	0.60	33.55	---	---	Peak
3	205.23	36.35	-7.15	43.50	59.63	9.64	0.60	33.52	100	140	Peak
4	430.90	26.31	-19.69	46.00	42.37	16.27	0.81	33.14	---	---	Peak
5	498.80	26.14	-19.86	46.00	41.10	17.40	0.98	33.34	---	---	Peak
6	526.80	31.29	-14.71	46.00	45.88	17.70	0.93	33.22	---	---	Peak

- Polarization : Horizontal (1GHz-25GHz)

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



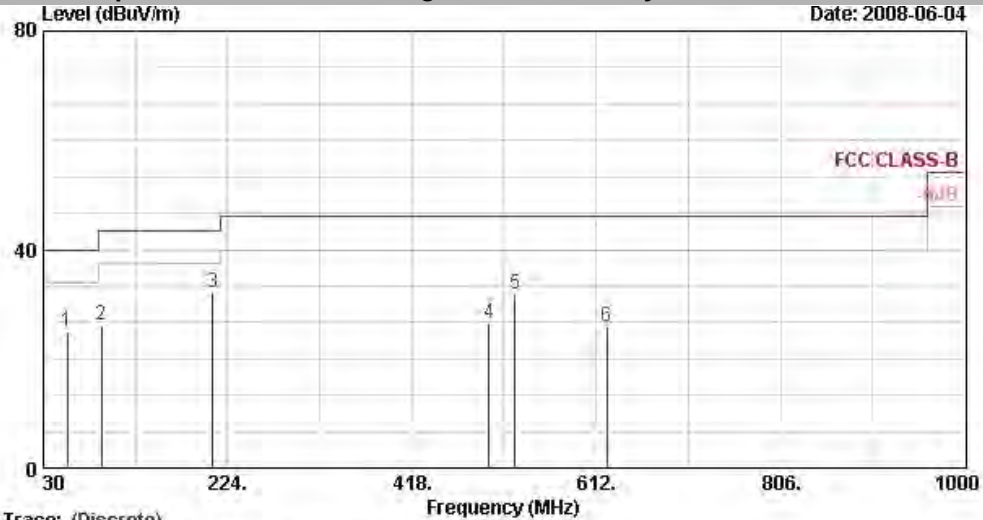
Trace: (Discrete)
 Site : D3CR06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
 EUT : 手機電腦
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 4
 Data Rate : 8

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2389.42	67.06	-6.94	74.00	66.96	31.86	3.92	35.68	100	0	Peak
2	2389.42	46.68	-7.32	54.00	46.58	31.86	3.92	35.68	100	228	Average
3 @	2412.00	104.59			104.44	31.88	3.95	35.68	100	0	Peak
4 @	2412.00	89.68			89.53	31.88	3.95	35.68	100	228	Average
5	2484.00	47.81	-26.19	74.00	47.48	31.98	4.05	35.70	100	0	Peak
6	2484.00	33.68	-20.32	54.00	33.35	31.98	4.05	35.70	100	228	Average
7	7167.00	53.22	-20.78	74.00	46.41	35.73	7.15	36.07	100	0	Peak
8	7167.00	41.97	-12.03	54.00	35.16	35.73	7.15	36.07	100	192	Average

Remark: #3 and #4 are Fundamental Signals

- Polarization : Vertical (30MHz-1GHz)

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

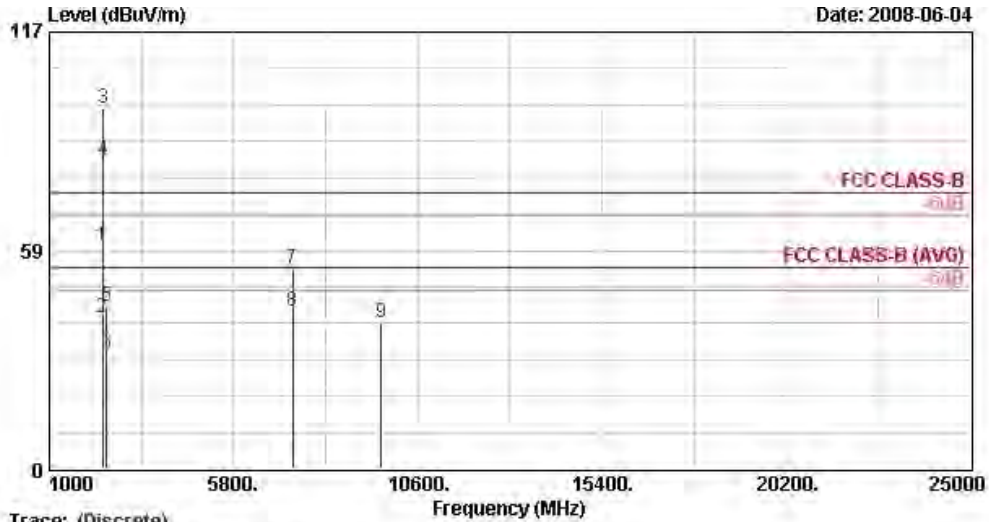


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(951121) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 4
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	54.84	24.86	-15.14	40.00	50.48	7.35	0.40	33.37	---	Peak
2	91.29	26.24	-17.26	43.50	49.81	9.23	0.50	33.30	---	Peak
3	207.93	31.99	-11.51	43.50	55.15	9.76	0.60	33.52	100	205 Peak
4	498.80	26.40	-19.60	46.00	41.36	17.40	0.98	33.34	---	Peak
5	526.80	31.80	-14.20	46.00	46.39	17.70	0.93	33.22	---	Peak
6	623.40	25.95	-20.05	46.00	39.25	18.57	1.06	32.93	---	Peak

- Polarization :Vertical (1GHz-25GHz)

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



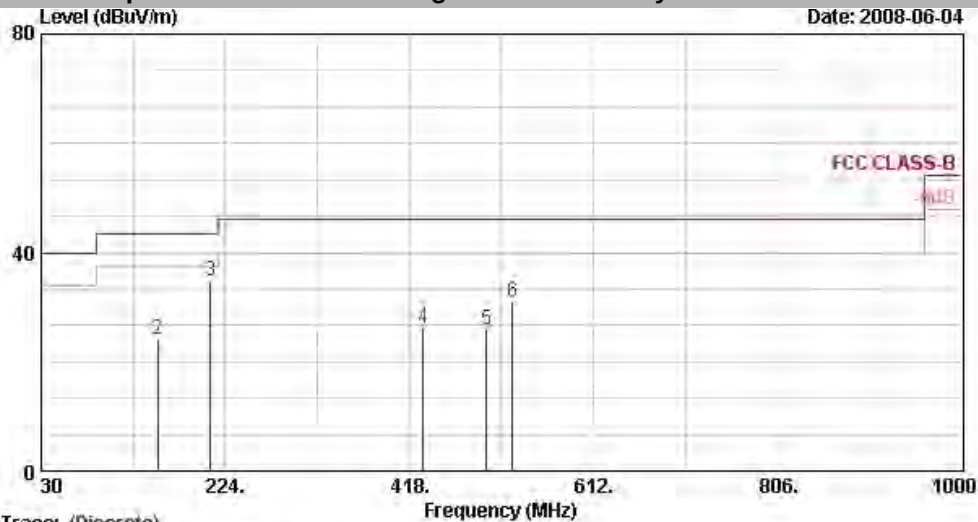
Trace: (Discrete)
 Site : D3CH06-RY
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 4
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2389.99	59.44	-14.56	74.00	59.34	31.86	3.92	35.68	100	0 Peak
2	2389.99	40.27	-13.73	54.00	40.17	31.86	3.92	35.68	140	106 Average
3 X	2412.00	96.44			96.29	31.88	3.95	35.68	100	0 Peak
4 @	2412.00	82.57			82.42	31.88	3.95	35.68	140	106 Average
5	2494.00	43.59	-30.41	74.00	43.24	32.00	4.05	35.70	100	0 Peak
6	2494.00	31.07	-22.93	54.00	30.72	32.00	4.05	35.70	140	106 Average
7	7332.00	53.42	-20.58	74.00	46.67	35.67	7.21	36.13	100	0 Peak
8	7332.00	42.26	-11.74	54.00	35.51	35.67	7.21	36.13	100	210 Average
9	9642.00	39.12	-34.88	74.00	78.00	-10.09	7.94	36.73	100	0 Peak

Remark: #3 and #4 are Fundamental Signals

- Test Mode : Mode 5
- Polarization : Horizontal (30MHz-1GHz)

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



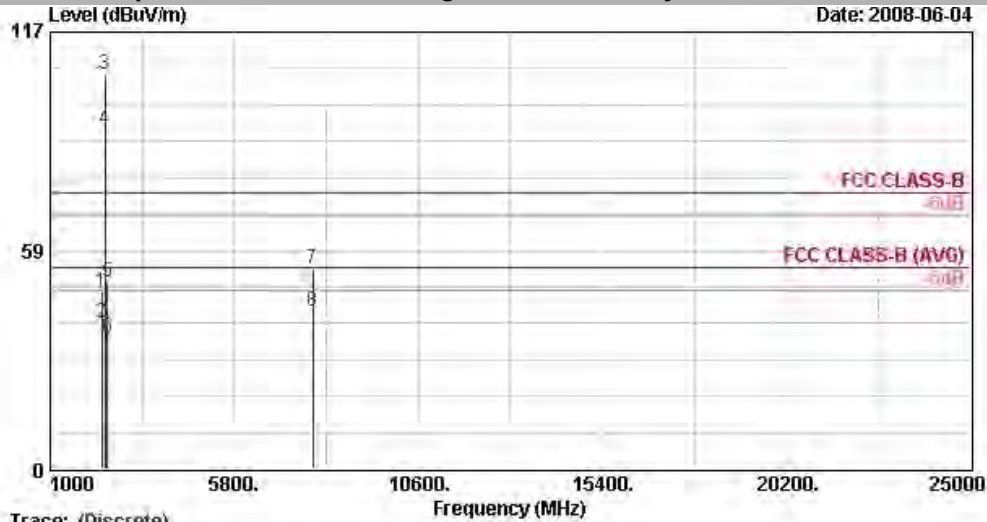
Trace: (Discrete)

Site : D3CH08-HY
Condition : FCC CLASS-B 3m LF-ANT(051121) HORIZONTAL
EUT : 平板电脑
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode 5
Data Rate : 5

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	23.36	-16.64	40.00	36.90	19.66	0.30	33.50	---	---	Peak
2	152.58	24.11	-19.39	43.50	46.71	10.35	0.60	33.55	---	---	Peak
3	207.93	34.79	-8.71	43.50	57.94	9.76	0.60	33.52	100	171	Peak
4	432.30	26.19	-19.81	46.00	42.20	16.31	0.83	33.15	---	---	Peak
5	498.80	25.96	-20.04	46.00	40.93	17.40	0.98	33.34	---	---	Peak
6	526.80	31.05	-14.95	46.00	45.64	17.70	0.93	33.22	---	---	Peak

- Polarization : Horizontal (1GHz-25GHz)

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



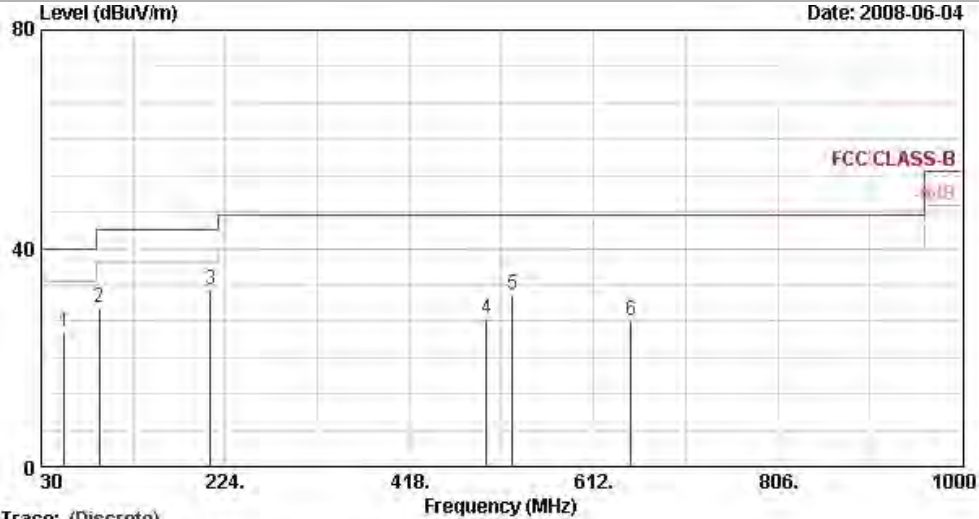
Trace: (Discrete)
 Site : D3CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 5
 Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2334.00	47.39	-26.61	74.00	47.44	31.76	3.86	35.67	100	0	Peak
2	2334.00	39.18	-14.82	54.00	39.23	31.76	3.86	35.67	100	229	Average
3 @	2437.00	105.82			105.62	31.90	3.99	35.69	100	0	Peak
4 @	2437.00	90.88			90.65	31.93	3.99	35.69	100	229	Average
5	2484.00	49.97	-24.03	74.00	49.64	31.98	4.05	35.70	100	0	Peak
6	2484.00	35.39	-18.61	54.00	35.06	31.98	4.05	35.70	100	229	Average
7	7836.00	53.28	-20.72	74.00	46.45	35.67	7.44	36.27	100	0	Peak
8	7836.00	42.05	-11.95	54.00	35.21	35.67	7.44	36.27	100	204	Average

Remark: #3 and #4 are Fundamental Signals

- Polarization : Vertivcal (30MHz-1GHz)

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

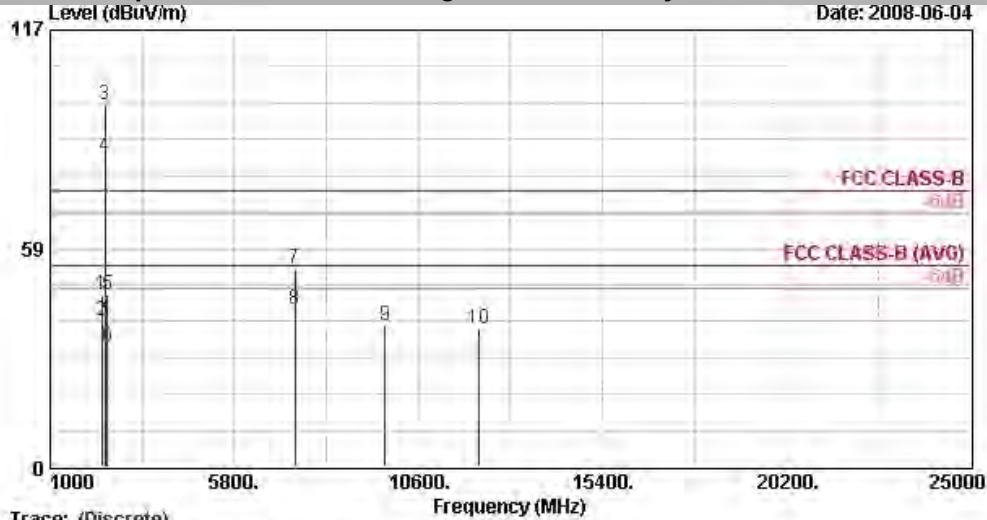


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(051121) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 5
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	54.03	24.67	-15.33	40.00	50.12	7.50	0.38	33.33	---	---	Peak
2	91.29	29.15	-14.35	43.50	52.72	9.23	0.50	33.30	---	---	Peak
3	208.74	32.53	-10.97	43.50	55.63	9.81	0.60	33.51	100	113	Peak
4	498.80	27.02	-18.98	46.00	41.98	17.40	0.98	33.34	---	---	Peak
5	526.80	31.47	-14.53	46.00	46.06	17.70	0.93	33.22	---	---	Peak
6	651.40	26.68	-19.32	46.00	39.91	18.69	1.10	33.02	---	---	Peak

- Polarization : Vertical (1GHz-25GHz)

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



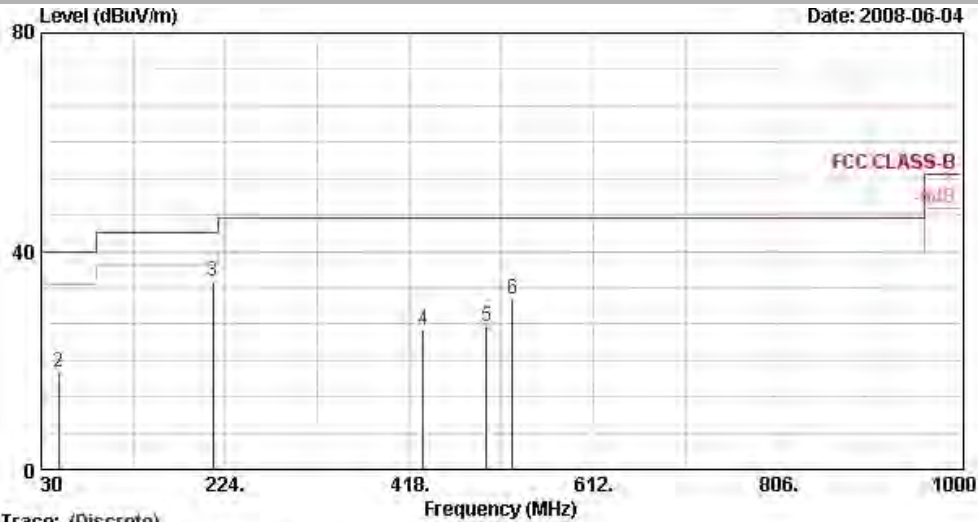
Trace: (Discrete)
 Site : D3CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 5
 Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2334.00	46.04	-27.96	74.00	46.09	31.76	3.86	35.67	100	0 Peak
2	2334.00	39.02	-14.98	54.00	39.07	31.76	3.86	35.67	100	106 Average
3 X	2437.00	97.20			97.00	31.90	3.99	35.69	100	0 Peak
4 @	2437.00	83.15			82.92	31.93	3.99	35.69	100	106 Average
5	2484.00	46.12	-27.88	74.00	45.79	31.98	4.05	35.70	100	0 Peak
6	2484.00	32.12	-21.88	54.00	31.79	31.98	4.05	35.70	100	106 Average
7	7386.00	53.25	-20.75	74.00	46.53	35.64	7.23	36.15	100	0 Peak
8	7386.00	42.14	-11.86	54.00	35.42	35.64	7.23	36.15	100	112 Average
9	9732.00	37.70	-36.30	74.00	76.35	-9.89	7.98	36.75	100	0 Peak
10	12186.00	37.06	-36.94	74.00	74.10	-10.25	9.39	36.18	100	0 Peak

Remark: #3 and #4 are Fundamental Signals

- Test Mode : Mode 6
- Polarization : Horizontal (30MHz-1GHz)

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

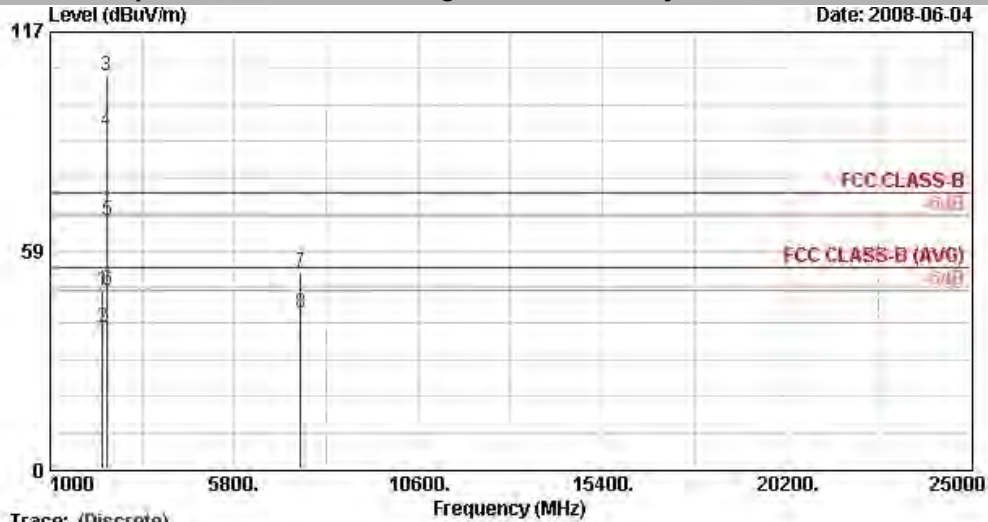


Trace: (Discrete)
 Site : D3CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(051121) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 6
 Data Rate : 5

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	22.98	-17.02	40.00	36.52	19.66	0.30	33.50	---	---	Peak
2	48.63	17.86	-22.14	40.00	41.64	9.06	0.30	33.14	---	---	Peak
3	210.63	34.42	-9.08	43.50	57.40	9.93	0.60	33.51	100	206	Peak
4	432.30	25.69	-20.31	46.00	41.70	16.31	0.83	33.15	---	---	Peak
5	498.80	26.19	-19.81	46.00	41.15	17.40	0.98	33.34	---	---	Peak
6	526.80	31.17	-14.83	46.00	45.76	17.70	0.93	33.22	---	---	Peak

- Polarization : Horizontal (1GHz-25GHz)

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



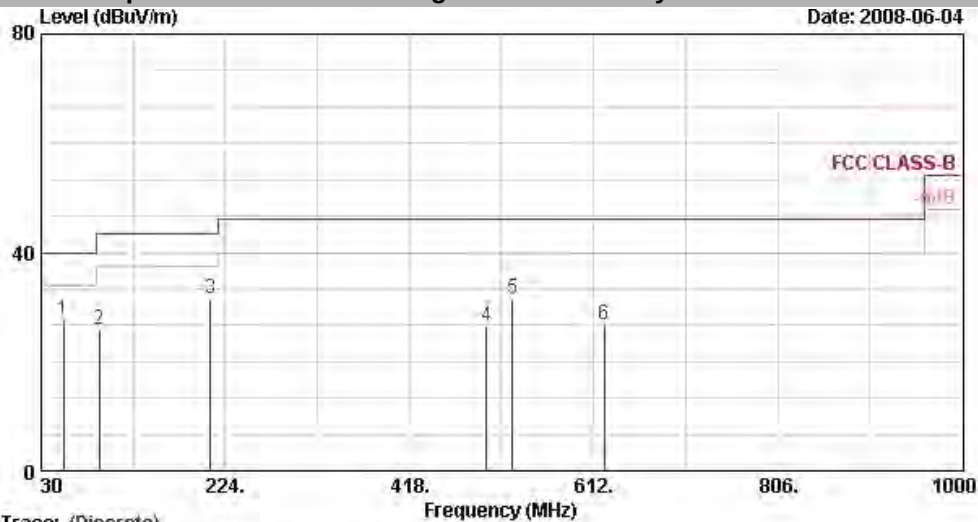
Trace: (Discrete)
 Site : D3CH06-HY
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
 EUT : 手機電腦
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 6
 Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2358.00	47.81	-26.19	74.00	47.79	31.81	3.89	35.67	100	0	Peak
2	2358.00	37.66	-16.34	54.00	37.64	31.81	3.89	35.67	100	227	Average
3 @	2462.00	105.29			105.01	31.95	4.02	35.69	100	0	Peak
4 @	2462.00	90.43			90.20	31.93	3.99	35.69	100	227	Average
5	2483.66	66.41	-7.59	74.00	66.08	31.98	4.05	35.70	100	0	Peak
6	2483.66	47.65	-6.35	54.00	47.32	31.98	4.05	35.70	100	227	Average
7	7536.00	52.62	-21.38	74.00	45.94	35.61	7.28	36.21	100	0	Peak
8	7536.00	41.55	-12.45	54.00	34.87	35.61	7.28	36.21	100	207	Average

Remark: #3 and #4 are Fundamental Signals

- Polarization : Vertical (30MHz-1GHz)

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

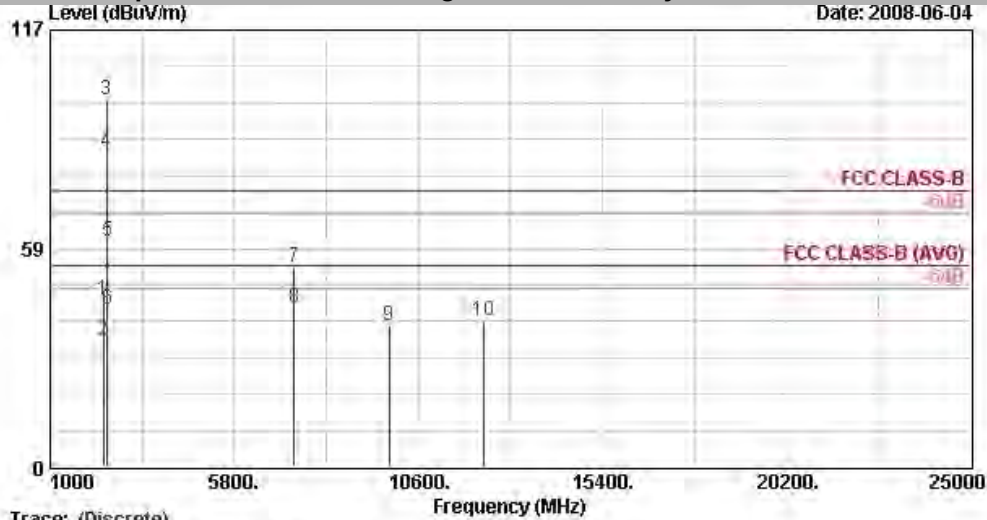


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(051121) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 6
 Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	53.49	27.58	-12.42	40.00	52.86	7.64	0.36	33.28	---	---	Peak
2	91.29	25.81	-17.69	43.50	49.38	9.23	0.50	33.30	---	---	Peak
3	208.74	31.60	-11.90	43.50	54.70	9.81	0.60	33.51	100	209	Peak
4	498.80	26.56	-19.44	46.00	41.52	17.40	0.98	33.34	---	---	Peak
5	526.80	31.55	-14.45	46.00	46.14	17.70	0.93	33.22	---	---	Peak
6	623.40	26.68	-19.32	46.00	39.98	18.57	1.06	32.93	---	---	Peak

- Polarization : Vertical (1GHz-25GHz)

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



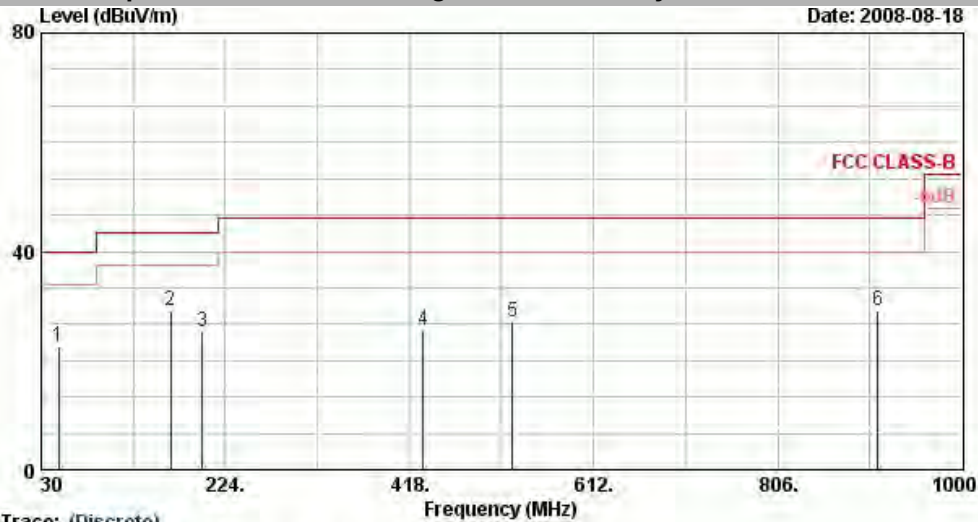
Site : D3CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
EUT : 平板电脑
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode 6
Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2388.00	44.67	-29.33	74.00	44.57	31.86	3.92	35.68	100	0 Peak
2	2388.00	33.88	-20.12	54.00	33.78	31.86	3.92	35.68	100	107 Average
3 X	2462.00	98.39			98.11	31.95	4.02	35.69	100	0 Peak
4 @	2462.00	84.21			83.93	31.95	4.02	35.69	100	107 Average
5	2483.85	60.54	-13.46	74.00	60.21	31.98	4.05	35.70	100	0 Peak
6	2483.85	42.37	-11.63	54.00	42.04	31.98	4.05	35.70	100	107 Average
7	7356.00	53.60	-20.40	74.00	48.87	35.66	7.22	36.14	100	0 Peak
8	7356.00	42.44	-11.56	54.00	35.71	35.66	7.22	36.14	100	167 Average
9	9837.00	37.93	-36.07	74.00	76.33	-9.65	8.03	36.77	100	0 Peak
10	12306.00	39.08	-34.92	74.00	76.39	-10.65	9.47	36.12	100	0 Peak

Remark: #3 and #4 are Fundamental Signals

- Test Mode : Mode 7
- Polarization : Horizontal (30MHz-1GHz)

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

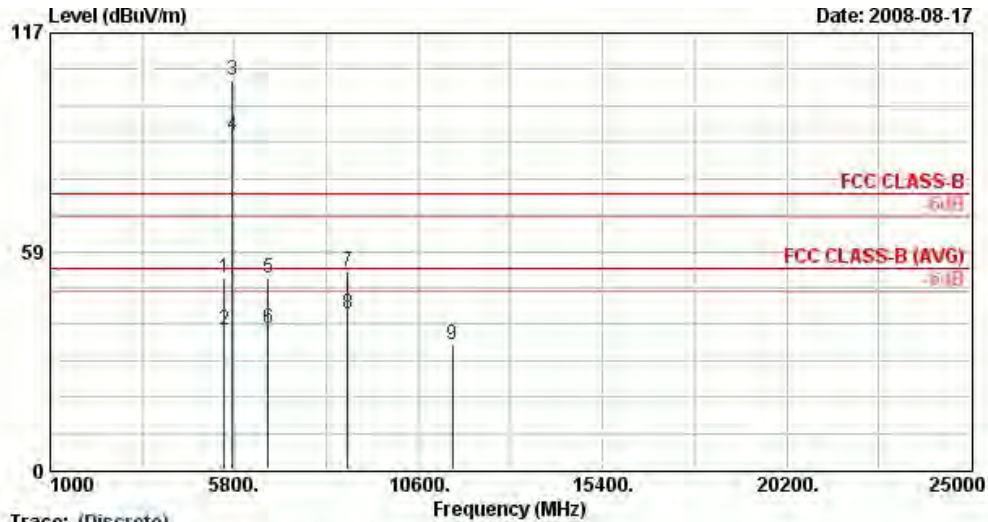


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(951121) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 7
 Data Rate : 6

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Preamp Loss Factor	Ant Pos	Table Pos	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	48.63	22.54	-17.46	40.00	45.10	9.06	0.30	31.91	---	---	Peak
2	166.08	29.22	-14.28	43.50	50.52	10.01	0.60	31.91	100	26	Peak
3	199.83	25.35	-18.15	43.50	47.56	9.30	0.60	32.11	---	---	Peak
4	432.30	25.70	-20.30	46.00	40.56	16.31	0.83	31.99	---	---	Peak
5	526.80	26.95	-19.05	46.00	40.41	17.70	0.93	32.10	---	---	Peak
6	911.80	29.14	-16.86	46.00	38.86	20.61	1.28	31.61	---	---	Peak

- Polarization : Horizontal (1GHz-25GHz)

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



Trace: (Discrete)

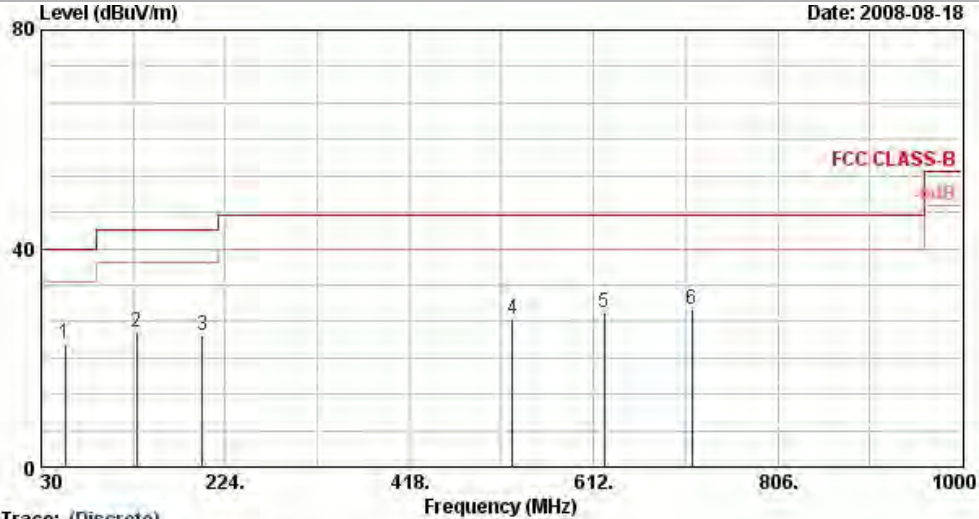
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
EUT : 手機電腦
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode 7
Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5542.00	51.19	-22.81	74.00	44.36	36.33	6.21	35.71	100	0	Peak
2	5542.00	37.58	-16.42	54.00	30.75	36.33	6.21	35.71	152	103	Average
3 X	5745.00	104.38			97.22	36.49	6.42	35.75	100	0	Peak
4 X	5745.00	89.74			82.58	36.49	6.42	35.75	152	103	Average
5	6678.00	51.38	-22.62	74.00	43.24	37.14	6.94	35.94	100	0	Peak
6	6678.00	37.85	-16.15	54.00	29.71	37.14	6.94	35.94	152	103	Average
7	8764.00	53.19	-20.81	74.00	43.80	38.31	7.53	36.45	100	0	Peak
8	8764.00	41.91	-12.09	54.00	32.51	38.31	7.53	36.45	100	181	Average
9	11487.00	33.54	-40.46	74.00	72.79	-11.73	8.77	36.29	100	0	Peak

Remark: #3 and #4 are Fundamental Signals

- Polarization : Vertical (30MHz-1GHz)

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



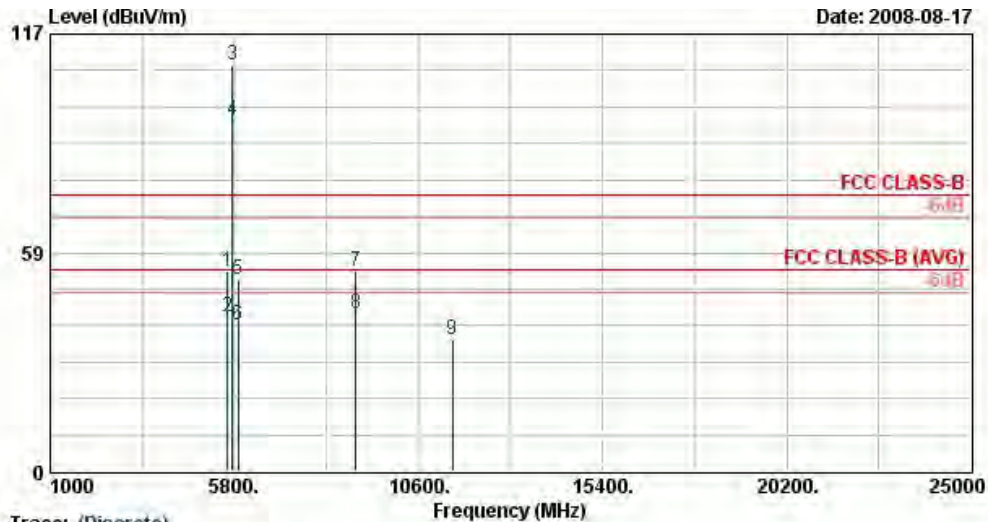
Trace: (Discrete)

Site : 03CH06-HY
Condition : FCC CLASS-B 3m LP-ANT(951121) VERTICAL
EUT : 平板电脑
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode 7
Data Rate : 8

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Preamp Loss Factor	Ant Pos	Table Pos	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	55.38	22.64	-17.36	40.00	46.79	7.35	0.40	31.90	---	---	Peak
2	130.44	24.67	-18.83	43.50	44.17	11.70	0.50	31.69	---	---	Peak
3	199.83	24.03	-19.47	43.50	46.24	9.30	0.60	32.11	---	---	Peak
4	526.80	26.94	-19.06	46.00	40.41	17.70	0.93	32.10	---	---	Peak
5	623.40	28.30	-17.70	46.00	40.71	18.57	1.06	32.04	---	---	Peak
6	715.80	28.82	-17.18	46.00	40.93	19.03	1.20	32.35	100	44	Peak

- Polarization : Vertical (1GHz-25GHz)

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



Trace: (Discrete)

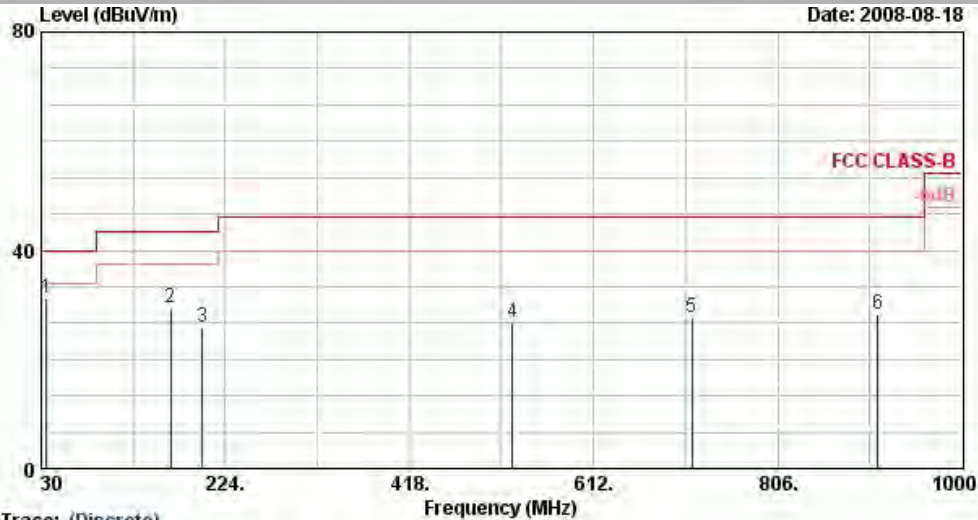
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
EUT : 平板电脑
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode 7
Data Rate : 6

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5622.00	53.38	-20.62	74.00	47.37	35.42	6.31	35.73	100	0 Peak
2	5622.00	41.50	-12.50	54.00	35.50	35.42	6.31	35.73	129	195 Average
3 X	5745.00	108.69			102.57	35.45	6.42	35.75	100	0 Peak
4 @	5745.00	93.83			87.71	35.45	6.42	35.75	129	195 Average
5	5894.00	51.47	-22.53	74.00	45.21	35.48	6.56	35.78	100	0 Peak
6	5894.00	39.11	-14.89	54.00	32.86	35.48	6.56	35.78	129	195 Average
7	8974.00	53.69	-20.31	74.00	44.83	37.67	7.77	36.59	100	0 Peak
8	8974.00	42.02	-11.98	54.00	33.16	37.67	7.77	36.59	100	294 Average
9	11487.00	35.21	-38.79	74.00	74.45	-11.73	8.77	36.29	100	0 Peak

Remark: #3 and #4 are Fundamental Signals

- Test Mode : Mode 8
- Polarization : Horizontal (30MHz-1GHz)

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

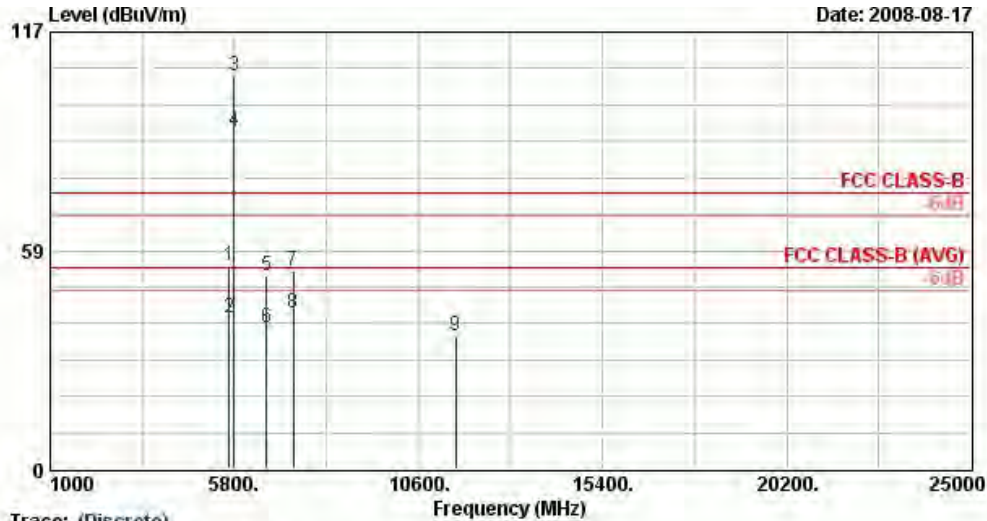


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(951121) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 8
 Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	35.94	31.30	-8.70	40.00	47.20	15.61	0.30	31.80	100	233	Peak
2	166.08	29.49	-14.01	43.50	50.79	10.01	0.60	31.91	---	---	Peak
3	199.83	25.82	-17.68	43.50	48.03	9.30	0.60	32.11	---	---	Peak
4	526.80	26.73	-19.27	46.00	40.19	17.70	0.93	32.10	---	---	Peak
5	715.80	27.73	-18.27	46.00	39.84	19.03	1.20	32.35	---	---	Peak
6	911.80	28.29	-17.71	46.00	38.00	20.61	1.28	31.61	---	---	Peak

- Polarization : Horizontal (1GHz-25GHz)

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



Trace: (Discrete)

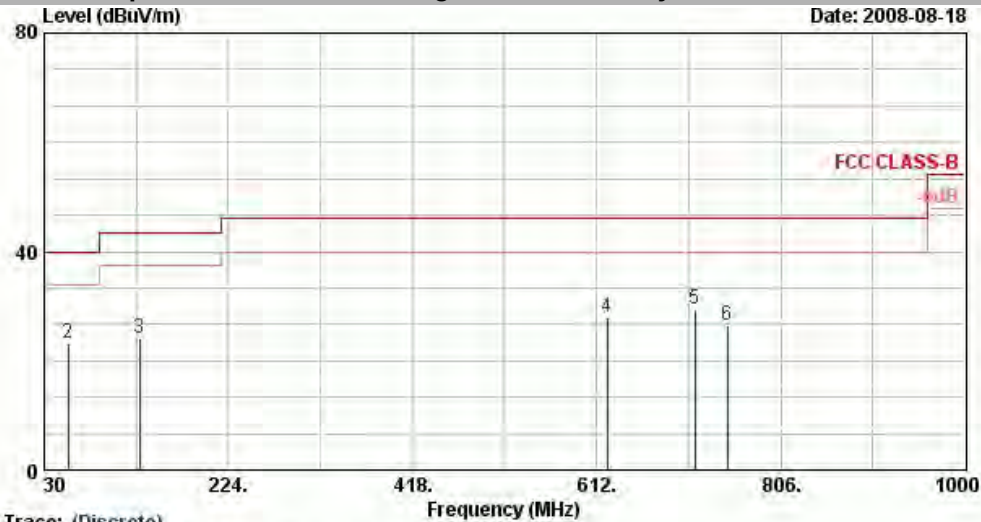
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
EUT : 平板电脑
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode B
Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5660.00	54.33	-19.67	74.00	47.31	36.42	6.33	35.74	100	0	Peak
2	5660.00	40.62	-13.38	54.00	33.60	36.42	6.33	35.74	191	158	Average
3 X	5785.00	105.07			97.87	36.52	6.44	35.76	100	0	Peak
4 X	5785.00	90.29			83.09	36.52	6.44	35.76	191	158	Average
5	6646.00	51.73	-22.27	74.00	43.66	37.09	6.91	35.93	100	0	Peak
6	6646.00	38.01	-15.99	54.00	29.93	37.09	6.91	35.93	191	158	Average
7	7348.00	53.11	-20.89	74.00	44.17	37.88	7.21	36.14	100	0	Peak
8	7348.00	41.97	-12.03	54.00	33.02	37.88	7.21	36.14	100	154	Average
9	11571.00	35.59	-38.41	74.00	74.56	-11.49	8.82	36.30	100	0	Peak

Remark: #3 and #4 are Fundamental Signals

- Polarization : Vertical (30MHz-1GHz)

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

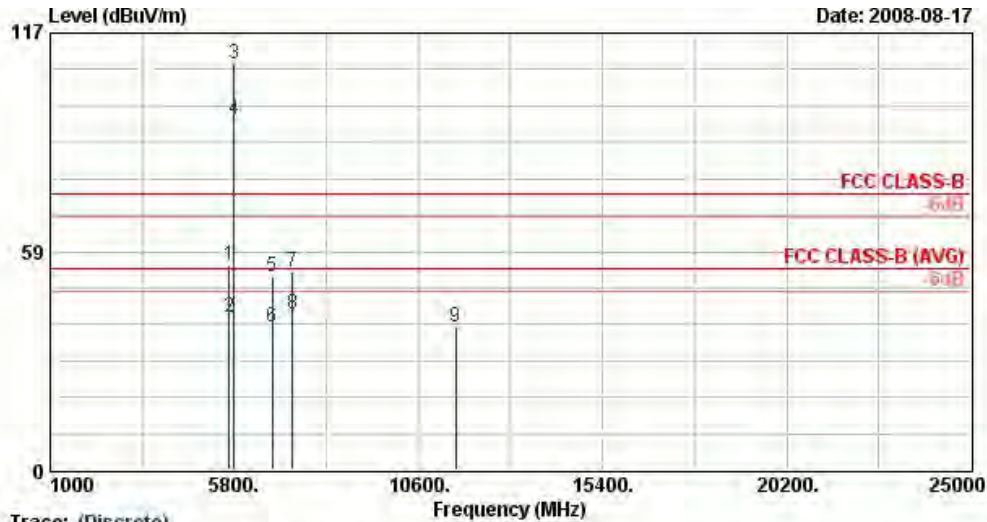


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LP-ANT(051121) VERTICAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 8
 Data Rate : 8

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	30.54	24.87	-15.13	40.00	37.23	18.95	0.30	31.61	100	156 Peak
2	55.38	23.14	-16.86	40.00	47.29	7.35	0.40	31.90	---	---
3	130.44	23.99	-19.51	43.50	43.49	11.70	0.50	31.69	---	---
4	623.40	27.90	-18.10	46.00	40.31	18.57	1.06	32.04	---	---
5	715.80	29.32	-16.68	46.00	41.44	19.03	1.20	32.35	---	---
6	749.40	26.44	-19.56	46.00	38.05	19.35	1.10	32.06	---	---

- Polarization : Vertical (1GHz-25GHz)

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



Trace: (Discrete)

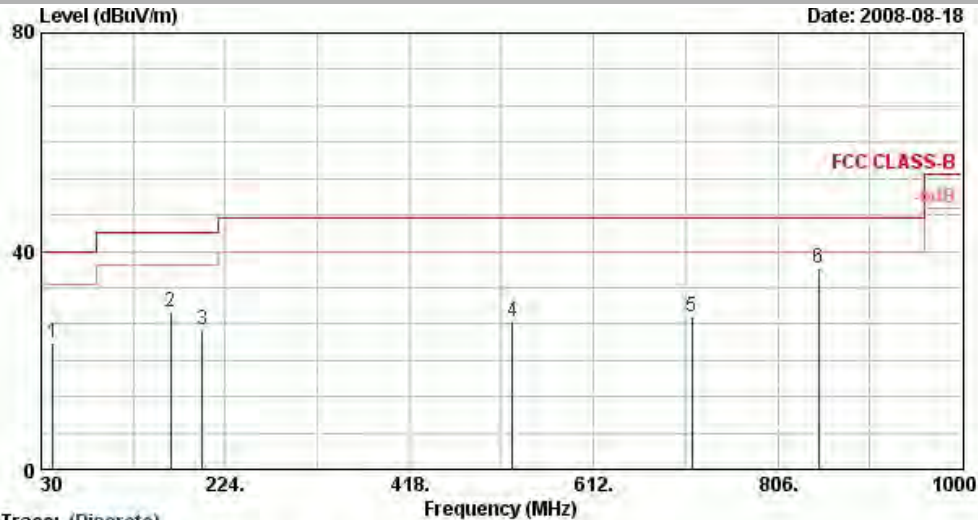
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
EUT : 手機電腦
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode B
Data Rate : B

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	5662.00	54.79	-19.21	74.00	48.77	35.43	6.33	35.74	100	0 Peak
2	5662.00	40.68	-13.32	54.00	34.65	35.43	6.33	35.74	190	199 Average
3 X	5785.00	108.65			102.51	35.46	6.44	35.76	100	0 Peak
4 X	5785.00	93.78			87.64	35.46	6.44	35.76	190	199 Average
5	6782.00	51.56	-22.44	74.00	44.29	36.24	6.98	35.96	100	0 Peak
6	6782.00	38.23	-15.77	54.00	30.96	36.24	6.98	35.96	190	199 Average
7	7328.00	53.03	-20.97	74.00	45.09	36.86	7.21	36.13	100	0 Peak
8	7328.00	41.96	-12.04	54.00	34.02	36.86	7.21	36.13	100	306 Average
9	11571.00	38.24	-35.76	74.00	77.21	-11.49	8.82	36.30	100	0 Peak

Remark: #3 and #4 are Fundamental Signals

- Test Mode : Mode 9
- Polarization : Horizontal (30MHz-1GHz)

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

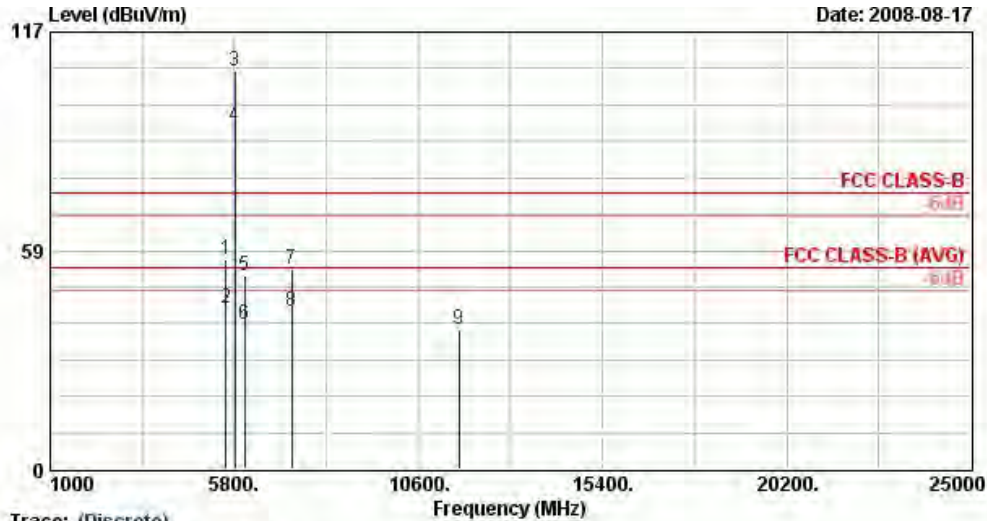


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B 3m LF-ANT(951121) HORIZONTAL
 EUT : 平板电脑
 Power : 120Vac/60Hz
 Model : FR 840719
 Memo : Mode 9
 Data Rate : 8

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	42.69	23.31	-16.69	40.00	42.70	12.02	0.30	31.71	---	Peak
2	166.08	28.87	-14.63	43.50	50.17	10.01	0.60	31.91	---	Peak
3	199.83	25.50	-18.00	43.50	47.71	9.30	0.60	32.11	---	Peak
4	526.80	27.21	-18.79	46.00	40.67	17.70	0.93	32.10	---	Peak
5	715.80	28.06	-17.94	46.00	40.17	19.03	1.20	32.35	---	Peak
6	848.80	36.96	-9.04	46.00	47.99	20.16	1.20	32.40	100	66 Peak

- Polarization : Horizontal (1GHz-25GHz)

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



Trace: (Discrete)

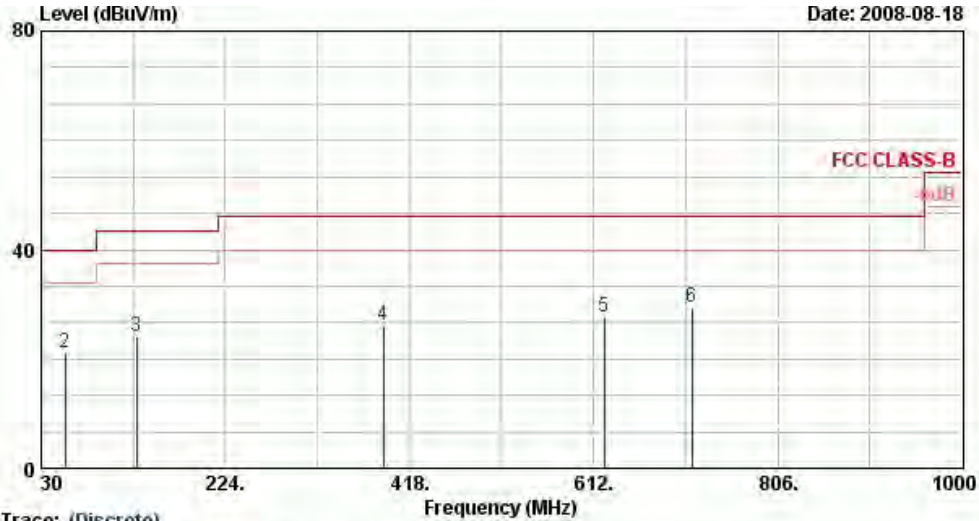
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL
EUT : 手機電腦
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode 9
Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5588.00	56.17	-17.83	74.00	49.26	36.37	6.26	35.72	100	0	Peak
2	5588.00	42.88	-11.12	54.00	35.97	36.37	6.26	35.72	186	174	Average
3 X	5825.00	106.35			99.07	36.56	6.49	35.77	100	0	Peak
4 X	5825.00	91.91			84.63	36.56	6.49	35.77	186	174	Average
5	6060.00	51.61	-22.39	74.00	44.02	36.73	6.68	35.81	100	0	Peak
6	6060.00	38.69	-15.31	54.00	31.09	36.73	6.68	35.81	186	174	Average
7	7298.00	53.38	-20.62	74.00	44.47	37.83	7.19	36.12	100	0	Peak
8	7298.00	42.16	-11.84	54.00	33.25	37.83	7.19	36.12	100	126	Average
9	11652.00	37.45	-36.55	74.00	75.97	-11.14	8.92	36.30	100	0	Peak

Remark: #3 and #4 are Fundamental Signals

- Polarization : Vertical (30MHz-1GHz)

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



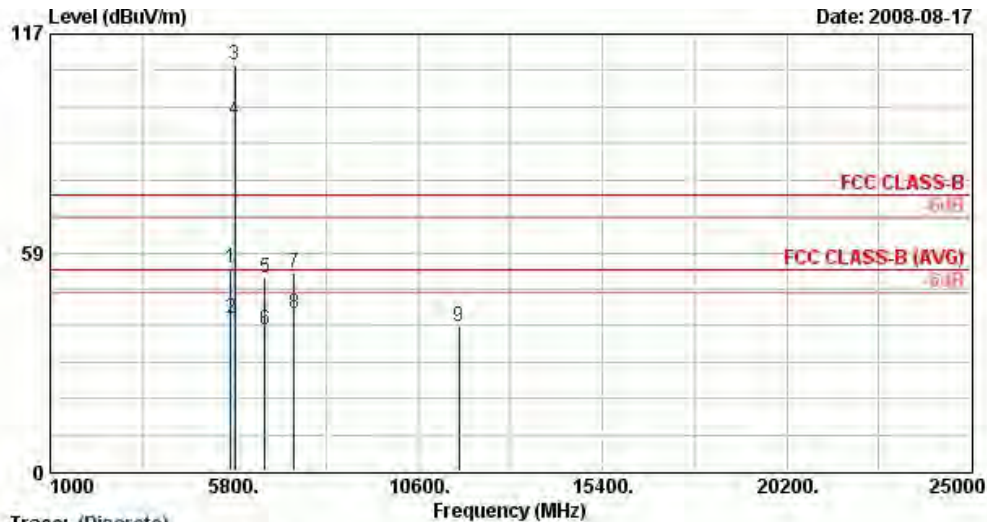
Trace: (Discrete)

Site : 03CH06-HV
Condition : FCC CLASS-B 3m LP-ANT(051121) VERTICAL
EUT : 平板电脑
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode 9
Data Rate : 8

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	19.55	-20.45	40.00	31.15	19.66	0.30	31.56	---	---	Peak
2	55.38	21.26	-18.74	40.00	45.41	7.35	0.40	31.90	---	---	Peak
3	130.44	23.99	-19.51	43.50	43.49	11.70	0.50	31.69	---	---	Peak
4	390.30	26.23	-19.77	46.00	41.77	15.51	0.80	31.85	---	---	Peak
5	623.40	27.79	-18.21	46.00	40.20	18.57	1.06	32.04	---	---	Peak
6	715.80	29.51	-16.49	46.00	41.63	19.03	1.20	32.35	100	99	Peak

- Polarization : Vertical (1GHz-25GHz)

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



Trace: (Discrete)

Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL
EUT : 手機電腦
Power : 120Vac/60Hz
Model : FR 840719
Memo : Mode 9
Data Rate : 6

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	5710.00	54.34	-19.66	74.00	48.27	35.44	6.37	35.75	100	0	Peak
2	5710.00	40.83	-13.17	54.00	34.76	35.44	6.37	35.75	174	187	Average
3 X	5825.00	108.76			102.57	35.47	6.49	35.77	100	0	Peak
4 @	5825.00	94.12			87.93	35.47	6.49	35.77	174	187	Average
5	6604.00	51.78	-22.22	74.00	44.83	35.97	6.90	35.92	100	0	Peak
6	6604.00	37.93	-16.07	54.00	30.99	35.97	6.90	35.92	174	187	Average
7	7358.00	53.15	-20.85	74.00	45.18	36.89	7.22	36.14	100	0	Peak
8	7358.00	42.02	-11.98	54.00	34.05	36.89	7.22	36.14	100	162	Average
9	11652.00	38.53	-35.47	74.00	77.05	-11.14	8.92	36.30	100	0	Peak

Remark: #3 and #4 are Fundamental Signals

5.3 Antenna Requirements

5.3.1 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.

5.3.2 Antenna Connected Construction

The antenna used in this product is PIFA Antenna for WLAN without connector and it is considered to meet antenna requirement of FCC.

5.3.3 Antenna Gain

The antenna gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

6. List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz~2GHz	Dec. 01, 2007	Nov. 31, 2008	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	66583	1G~18G	Aug. 29, 2007	Aug. 28, 2008	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-251	15G~40GHz	Oct. 17, 2007	Oct. 16, 2008	Radiation (03CH06-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211028	9KHz~26.5GHz	Oct. 17, 2007	Oct. 16, 2008	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/003	20~1000MHz	Apr. 24, 2008	Apr. 23, 2009	Radiation (03CH06-HY)
Pre Amplifier	Agilent	310N	186713	9KHz~1GHz	Apr. 21, 2008	Apr. 20, 2009	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G~26.5G	Nov. 22, 2007	Nov. 21, 2008	Radiation (03CH06-HY)

7. Uncertainty Evaluation

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

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.11	Normal(k=2)	0.06
Antenna factor calibration	0.91	Normal(k=2)	0.46
Cable loss calibration	0.12	Normal(k=2)	0.06
Pre Amplifier Gain calibration	0.15	Normal(k=2)	0.08
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.52	Rectangular	0.88
Mismatch	+0.45/-0.48	U-shaped	0.33
Combined standard uncertainty Uc(y)	1.30		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.60		

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

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 Uc(y)	2.36				
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	4.72				

The measured result is : y dBuV ± U dB

for a level of confidence of approximately 95% , (k = 2)

Appendix A. Photographs of EUT

Please refer to Sporton report number EP840719.

Appendix C. WLAN Module Report

Please refer to Aegis report number INTEL-060331F as below.



AEGIS LABS INC.

Class II Permissive Change
Test Report
And Application for Grant of Equipment Authorization

Pertaining To:

EUT	FCC ID:
Intel PRO/Wireless 3945ABG Network Connection, MN: WM3945ABG	PD9WM3945ABG

Configuration
802.11a / 802.11b / 802.11g with a set of Fujitsu Gilia Antenna2

MEASUREMENTS PERFORMED IN ACCORDANCE WITH

Regulatory Standard(s)
47 CFR Part 15, Subpart C Section 15.247
Test Method: ANSI C63.4: 2003 American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz



Certificate Number: 1111.01

APPLICANT:

Intel Corporation
2111 NE 25th Avenue
Hillsboro, Oregon 97124

Contact(s): Mr. Robert Paxman

PREPARED BY:

Aegis Labs, Inc.
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Rancho S. Margarita, CA 92688

Agent(s): Mr. Steve Kuiper
Mr. Rick Candelas
Mr. Johnny Candelas

Test Report #: INTEL-060331F
Test Report Revision: None

	REPORT BODY	APPENDICES	TOTAL PAGES
		A	
PAGES	18	32	50

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Page 1 of 18
Report Number: INTEL-060331F
FCC ID: PD9WM3945ABG



TABLE OF CONTENTS

SECTION	TITLE	PAGE
	COVER SHEET.....	01
	TABLE OF CONTENTS.....	02
1.0	CERTIFICATION OF TEST DATA.....	03
2.0	SUMMARY OF TEST RESULTS.....	04
3.0	ADMINISTRATIVE DATA AND TEST DESCRIPTION.....	07
4.0	DESCRIPTION OF EUT.....	08
4.1	EUT Description.....	08
4.1.1	Channel Number and Frequencies.....	09
4.2	EUT Configuration.....	10
4.3	List of EUT Sub-Assemblies and Host Equipment.....	11
4.4	I/O Cabling Diagram and Description.....	12
5.0	TEST EQUIPMENT AND TEST SETUPS.....	13
5.1	AC Power Line Conducted Emissions.....	13
5.2	Spurious Radiated Emissions.....	14
5.3	Conducted Emissions At The Antenna Port.....	14
5.4	Test and Measurement Equipment Used.....	15
6.0	SAMPLE CALCULATIONS.....	16
7.0	MODIFICATIONS AND RECOMMENDATIONS.....	18

APPENDICES

A	Test Data
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AEGIS LABS INC.

1.0 CERTIFICATION OF TEST DATA

Aegis Labs, Inc. operates as both a Nevada and California Corporation with no organizational or financial relationship with any company, institution, or private individual.

Testing and engineering functions provided by Aegis Labs are furnished through the use of part-time, full-time or consulting engineers with the appropriate qualifications to carry out their duties. The intended purpose of this test report is to describe the measurement procedure and to determine whether the equipment under test "EUT" complies with both the conducted and radiated limits. Limits for emissions testing are described under Subpart C of Part 15 of the FCC rules.

The data, data evaluation and equipment configuration represented herein are a true and accurate representation of the Equipment Under Test (EUT) under the requirements specified in the emissions standard as described below. The test results contained in this report are only representative of the test sample tested as described in Section 3.0 of this report. Certification of the EUT is required as a prerequisite to marketing as defined in Part 2 of the FCC Rules.

Report Prepared By:

Johnny Candelas
Test Technician
Aegis Labs, Inc

04/04/06

Date:

Report Reviewed By:

Rick Candelas
Lab Manager
Aegis Labs, Inc.

04/04/06

Date:

Report Approved By:

Steve J. Kuiper
Quality Assurance Manager
Aegis Labs, Inc.

04/04/06

Date:

Page 3 of 18

Report Number: INTEL-060331F

FCC ID: PD9WM3945ABG



2.0 SUMMARY OF TEST RESULTS

The test results provided within this report, indicate that the EUT has been found to be in **COMPLIANCE** with the test specifications based upon the following RF compliance standards:

Pass/Fail determination is based upon the nominal values of the test data.

802.11a Mode (5745-5825 MHz)

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
15.247(a)(2)	The minimum 6dB bandwidth shall be at least 500 kHz.	PASSED	5745 MHz = 16.58 MHz 5785 MHz = 16.67 MHz 5825 MHz = 16.67 MHz <i>Per Original Filing</i>
15.247(b)(3)	The maximum peak output power of the intentional radiator shall not exceed 1 watt.	PASSED	5745 MHz = 19.50 dBm = 89.13 mW 5785 MHz = 19.90 dBm = 97.72 mW 5825 MHz = 19.40 dBm = 87.10 mW
15.247(b)(5)	The intentional radiator shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the FCC guidelines per Section 1.1307(b)(1).	PASSED	Refer to MPE Calculations Exhibit
15.247(c)	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.	PASSED	See Data Sheets
15.247(c)	Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc.	PASSED	See Data Sheets
15.247(d)	The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.	PASSED	5745 MHz = -8.50 dB 5785 MHz = -9.50 dB 5825 MHz = -9.83 dB <i>Per Original Filing</i>
15.207	AC Conducted Emissions	PASSED	<i>See Original Filing</i>
15.209	Radiated Emissions (30-1000 MHz)	PASSED	<i>See Original Filing</i>



2.0 Summary of Test Results (Continued)

The test results provided within this report, indicate that the EUT has been found to be in **COMPLIANCE** with the test specifications based upon the following RF compliance standards:

Pass/Fail determination is based upon the nominal values of the test data.

802.11b Mode (2412-2462 MHz)

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
15.247(a)(2)	The minimum 6dB bandwidth shall be at least 500 kHz.	PASSED	2412 MHz = 8.33 MHz 2437 MHz = 8.83 MHz 2462 MHz = 9.17 MHz <i>Per Original Filing</i>
15.247(b)(3)	The maximum peak output power of the intentional radiator shall not exceed 1 watt.	PASSED	2412 MHz = 19.83 dBm = 96.16 mW 2437 MHz = 20.73 dBm = 118.30 mW 2462 MHz = 20.51 dBm = 112.46 mW
15.247(b)(5)	The intentional radiator shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the FCC guidelines per Section 1.1307(b)(1).	PASSED	Refer to MPE Calculations Exhibit
15.247(c)	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.	PASSED	See Data Sheets
15.247(c)	Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc.	PASSED	See Data Sheets
15.247(d)	The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.	PASSED	2412 MHz = -10.33 dB 2437 MHz = -7.83 dB 2462 MHz = -8.83 dB <i>Per Original Filing</i>
15.207	AC Conducted Emissions	PASSED	<i>See Original Filing</i>
15.209	Radiated Emissions (30-1000 MHz)	PASSED	<i>See Original Filing</i>



2.0 Summary of Test Results (Continued)

The test results provided within this report, indicate that the EUT has been found to be in **COMPLIANCE** with the test specifications based upon the following RF compliance standards:

Pass/Fail determination is based upon the nominal values of the test data.

802.11g Mode (2412-2462 MHz)

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
15.247(a)(2)	The minimum 6dB bandwidth shall be at least 500 kHz.	PASSED	2412 MHz = 16.58 MHz 2437 MHz = 16.67 MHz 2462 MHz = 16.67 MHz <i>Per Original Filing</i>
15.247(b)(3)	The maximum peak output power of the intentional radiator shall not exceed 1 watt.	PASSED	2412 MHz = 24.33 dBm = 271.02 mW 2437 MHz = 24.84 dBm = 304.79 mW 2462 MHz = 24.05 dBm = 254.10 mW
15.247(b)(5)	The intentional radiator shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the FCC guidelines per Section 1.1307(b)(1).	PASSED	Refer to MPE Calculations Exhibit
15.247(c)	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.	PASSED	See Data Sheets
15.247(c)	Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc.	PASSED	See Data Sheets
15.247(d)	The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.	PASSED	2412 MHz = -9.17 dB 2437 MHz = -8.17 dB 2462 MHz = -9.17 dB <i>Per Original Filing</i>
15.207	AC Conducted Emissions	PASSED	<i>See Original Filing</i>
15.209	Radiated Emissions (30-1000 MHz)	PASSED	<i>See Original Filing</i>



3.0 ADMINISTRATIVE DATA AND TEST DESCRIPTION

DEVICE TESTED:	ITE Type: Intel PRO/Wireless 3945ABG Network Connection Model Number(s): WM3945ABG Serial Number: 00B11A295CVD26965002 FCC ID: PD9WM3945ABG
TEST DATE (S):	March 31 – April 3, 2006
DATE EUT RECEIVED:	March 15, 2006
ORIGIN OF TEST SAMPLE(S):	Production Unit
RESPONSIBLE PARTY:	Intel Corporation 2111 NE 25 th Avenue Hillsboro, Oregon 97124
CLIENT CONTACT:	Mr. Robert Paxman
MANUFACTURER:	Intel Corporation
TEST LOCATION:	Aegis Labs, Inc. 32231 Trabuco Creek Road Trabuco Canyon, CA 92678 Conducted Site #2 Radiated Site #2
A2LA CERTIFICATE:	1111.01, Valid through April 30, 2006
PURPOSE OF TEST:	To demonstrate compliance with the relevant standards described in Section 2.0 of this report.
TEST(S) PERFORMED:	Refer to Table in Section 2.0 of this report.

All calibration vendors were responsible for certifying Aegis Labs, Inc. test equipment as per the manufacturer's specifications and that the equipment is calibrated using instruments and standards where the accuracy is traceable to the National Institute of Standards and Technology (NIST). Calibration of all test equipment conforms to ANSI/NCSL Z540-1 and ISO 10012-1 and/or ISO/IEC Guide 17025 compliance (Additionally, other pertinent test equipment will carry MIL-STD-45662A). All calibration documents are on file with Aegis Labs, Inc., with copies provided upon request.



4.0 DESCRIPTION OF EUT

4.1 EUT Description

Equipment Under Test (EUT)	
Trade Name:	Intel PRO/Wireless 3945ABG Network Connection
Model Number:	WM3945ABG
Frequency Range:	802.11a = 5745 – 5825 MHz 802.11b/g = 2412 – 2462MHz
Type of Transmission:	Direct Sequence Spread Spectrum
Transfer Rate:	1/5.5/11 Mbps for 802.11b mode 6/36/54 Mbps for 802.11g and 802.11a modes
Number of Channels:	802.11a mode (5725-5850 MHz) = 5 802.11b mode (2400-2483.5 MHz) = 11 802.11g mode (2400-2483.5 MHz)= 11
Modulation Type:	DBPSK, DQPSK, CCK, OFDM
Antenna Type:	Main/Aux = Monopole
Antenna Gain (See Note 2):	1.50 dBi @ 5 GHz / 2.20 dBi @ 2.4 GHz
Transmit Output Power:	18-20 dBm (Typical) for 802.11a mode 20 dBm (Typical) for 802.11b mode 24-25 dBm (Typical) for 802.11g mode Please see Appendix A (Data Sheets) for actual output power.
Power Supply:	3.3VDC from computer MPCPI slot.
Number of External Test Ports Exercised:	2 Antenna Ports (1 Main & 1 Auxiliary)

The Intel PRO/Wireless 3945ABG Network Connection is an embedded 802.11a/b/g network adapter operating in the 2.4 GHz and 5 GHz spectrum. The EUT is based on the Mini Card form factor designed to meet the space and size requirements for thin and light notebook PCs. It is capable of a data rate of up to 52 Mbps.

NOTE 1: For a more detailed description, please refer to the manufacture's specifications or User's Manual.

NOTE 2: The EUT was tested with a set of antennas. (Refer to the antenna specifications exhibits).

Page 8 of 18

Report Number: INTEL-060331F

FCC ID: PD9WM3945ABG



4.1.1 Channel Number and Frequencies

802.11a Mode		802.11b Mode		802.11g Mode	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	1	2412	1	2412
153	5765	2	2417	2	2417
157	5785	3	2422	3	2422
161	5805	4	2427	4	2427
165	5825	5	2432	5	2432
		6	2437	6	2437
		7	2442	7	2442
		8	2447	8	2447
		9	2452	9	2452
		10	2457	10	2457
		11	2462	11	2462



4.2 EUT Configuration

The EUT was tested installed in the Mini PCI-E slot of the host computer as a modular device using a PCI extender board to extend the EUT outside the computer chassis. The EUT was then connected to a set of antennas via its Main and AUX antenna ports. Data for a set of Fujitsu Gilia Antenna2 can be found in Appendix A (Data Sheets)

The low, middle, and high channels were tested in 802.11a, b, & g modes. Also, the EUT was tested once transmitting from the MAIN antenna port and once transmitting from the AUX antenna port. The EUT was placed in either continuous transmit or continuous receive mode by a program provided by the manufacturer (GRTT *Version 1.1.1*).



4.3 List of EUT, Sub-Assemblies, and Host Equipment

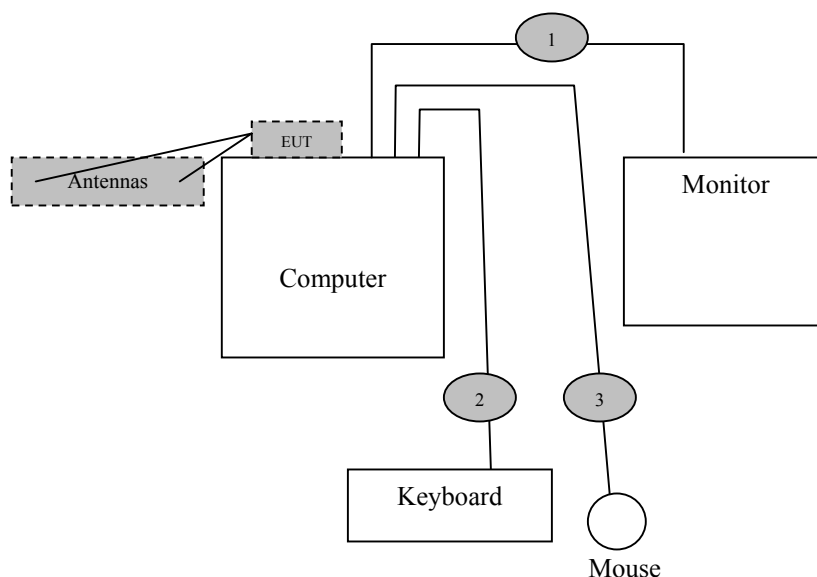
LIST OF EUT AND SUB-ASSEMBLIES			
Equipment Name	Manufacturer	Model Number	Serial Number
Intel PRO/Wireless 3945ABG Network Connection	Intel Corporation	WM3945ABG	00B11A295CV D26965002
EUT Sub-Assemblies			
Main Multi Band Antenna	Panasonic	CP279185	N/A
Auxiliary Multi Band Antenna	Panasonic	CP279186	N/A

HOST EQUIPMENT LIST			
Equipment Name	Manufacturer	Model Number	Serial Number
Computer	Intel	Generic	IZTGUVV4312035
Monitor	Compaq	473A	545AF16AD243
Keyboard	Logitech	Y-BF37	MCTZ5200581
Mouse	Logitech	M-BJ58	LZE14759424

NOTE: All the power cords of the above support equipment are standard non-shielded, 1.8 meters long.



4.4 I/O Cabling Diagram and Description



- Cable 1: This is a 6-foot braid and foil shielded round cable connecting the host computer with the monitor. It has metallic DB-15 type connector at the computer end and is hardwired to the monitor. The cable is bundled to a length of one meter and the shield of the cable is grounded to the chassis of both devices via the connector shells.
- Cable 2: This is a 6-foot braid and foil shielded round cable connecting the host computer to the keyboard. It has a metallic 6-pin mini din type connector at the computer end and is hardwired to the keyboard. The shield of the cable is grounded to the chassis of the computer via the connector shell.
- Cable 3: This is a 6-foot braid and foil shielded round cable connecting the host computer to the mouse. It has a metallic 6-pin mini din type connector at the computer end and is hardwired to the mouse. The shield of the cable is grounded to the chassis of the computer via the connector shell.



5.0 TEST EQUIPMENT AND TEST SETUPS

The test equipment settings and functions are selected using the guidance of ANSI C63.4-2003. All test equipment setups and operations during conducted and radiated emissions testing are in accordance with this reference document.

5.1 AC Power Line Conducted Emissions

During conducted emissions measurements, a spectrum analyzer was used as the measuring instrument along with a preselector and quasi-peak detector. A 10 dB attenuation pad was used for the protection of the spectrum analyzer input stage. The conducted emissions from the EUT in the frequency range from 150 kHz to 30 MHz were captured for graphical display through the use of automated LABVIEW EMI measurement software. All graphical readings were measured in the “Peak” mode only to reduce testing time. Upon completion of the graphical scan, the test lab personnel performed the conducted measurement scan manually using the spectrum analyzer front panel keys. All peak measurements coming within 3 dB of the limit line were “Averaged” and/or “Quasi-Peaked” and denoted appropriately in the EXCEL spreadsheet.

The Equipment Under Test (EUT) was configured as a system with peripherals connected, so that at least one interface port of each type is connected to one external peripheral when tested for conducted emissions according to ANSI C63.4: 2003. Excess power cord length was wrapped in a bundle 30 to 40 centimeters in length near the center of the cord. The EUT was tested in a tabletop configuration.

The emission readings for Line 1 and Line 2 are highlighted on the data sheets in Appendix A. The graphical scans only reflect peak readings while the tabulated data sheets reflect peak, average, and/or quasi-peak readings which ever applies.



5.2 Spurious Radiated Emissions

A spectrum analyzer was used as the measuring instrumentation along with a preselector and quasi-peak-detector. The pre-amplifiers were used to increase the sensitivity of the instrument. The spectrum analyzer was used in the peak detector mode with the “max-hold” feature activated and in Positive Peak mode. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. The quasi-peak detector was used only for those readings, which are marked accordingly in the data sheet. The effective measurement bandwidth used for the radiated emissions test was 120 kHz for (30 MHz- 1000 MHz). The spectrum analyzer operated such that the modulation of the signal was filtered out to set the analyzer in linear mode. For testing beyond 1000 MHz a spectrum analyzer capable of taking reading above 1000 MHz was connected to the high frequency amplifier, where these measurement readings were taken with the transducer placed at a 3-meter test distance from the EUT.

The Open Area Test Sites (OATS) was used for radiated emission testing. These test sites are designed according to ANSI C63.4: 2003 and ANSI C63.7: 1992 guidelines. The Measurements were conducted in accordance with ANSI C63.4: 2003 and ANSI C63.7: 1992 requirements.

Broadband biconical, log periodic, and horn antennas were used as transducers during the measurement reading phase. The frequency spans were wide (30 MHz-88 MHz, 88 MHz- 216 MHz, 216 MHz- 300 MHz, and 300 MHz- 1000 MHz). After 1000 MHz the horn antenna was used to measure emissions. The emission readings in both horizontal and vertical polarities are highlighted on the data sheets in Appendix A.

5.3 Conducted Emissions at the Antenna Port

A spectrum analyzer or power meter was used as the measuring instrumentation along with an attenuator and/or filter connected to the EUT antenna port. The attenuator and filters are used to ensure that the front end of the measurement instrument is not overloaded by the fundamental transmission. . The instruments recorded the measured readings with the bandwidths (video and resolution) set in accordance with the FCC Rules and regulations.

For the power out measurements in 802.11b and 802.11g modes a peak power meter was used along with a peak power sensor with a wide enough bandwidth to capture the entire fundamental transmission. For 802.11a mode a spectrum analyzer with “Channel Power Measurement” function was used to measure the peak output power.

The measured readings are on the data sheets in Appendix A.



5.4 Test and Measurement Equipment Used

TEST EQUIPMENT USED					
Equipment Name	Manufacturer	Model Number	Serial Number	Calibration Due Date	Calibration Cycle
Spectrum Analyzer	Agilent	8564EC	4046A00387	08/15/06	1 Year
Horn Antenna	EMCO	3115	2230	02/06/07	1 Year
Preamp	Miteq	JS42-01001800-25-10P	815980	07/21/06	1 Year
18 Foot Coax	Semflex	X116BFSX10216	546	12/14/06	1 Year
Antenna - 18-26.5 GHz Pre-amplified Horn	Aegis Labs, Inc.	H042	SLK-35-3W	02/08/07	1 Year
Antenna - 26.5-40 GHz Pre-amplified Horn	Aegis Labs, Inc.	H028	GM1260-10	02/08/07	1 Year
2.4 GHz Notch Filter	Micro-Tronics	BRM50702-02	003	04/21/06	1 Year
5.15-5.35 GHz Notch Filter	Microwave Circuits	N0452502	3173-01	06/27/06	1 Year
5.725-5.850 GHz Notch Filter	Microwave Circuits	N0257881	3173-01	06/27/06	1 Year
Temperature/Humidity Monitor	Dickson	TH550	7255185	N/A	N/A
Power Meter	Anritsu	ML2487A	6K00001785	04/05/06	1 Year
Wide Bandwidth Sensor	Anritsu	MA2491A	31193	04/05/06	1 Year
12dB Attenuator	Narda	4779-12	203	07/09/06	1 Year



6.0 SAMPLE CALCULATIONS

If a preamplifier is used during the Radiated Emissions Testing, it is required that the amplifier gain be subtracted from the Spectrum Analyzer (Meter) Reading. In addition, a correction factor for the antenna, cable and a distance factor, if any, must be applied to the Meter Reading before a true field strength reading can be obtained. In the Automatic Mode of A.R.M.S. measurements, these considerations are automatically presented as a part of the printout. In the case of manual measurements and for greater efficiency and convenience, usage of the calibration correction factors in the Appendices is necessary to calculate the Corrected Meter Reading. These correlation factors for each meter reading, shall be modified to reflect these correlation factors at each frequency value so that the meter readings can be compared directly to the modified specification limit. This modified specification limit is referred to as the "Corrected Meter Reading Limit" (CML).

The equation shall be derived in the following manner:

$$\text{Corrected Meter Reading} = \text{Meter Reading} + F + C - G - D$$

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor

Therefore, the equation for determining the Corrected Meter Reading Limit (CML) is:

$$\text{CML} = \text{Specification Limit} - F - C + G + D$$

For the manual mode of measurement, a table of corrected meter reading limits shall be used to permit immediate comparison of the meter reading to determine if the measured emission amplitude exceeded the specification limit at that specific frequency. There shall be two calculation sheets done, one for three meter and one for ten-meter measurement distances, where applicable. The correction factors for the antenna and the amplifier gain are attached in the Appendices.



6.0 Sample Calculations (Continued)

Peak Transmit Power Output:

A correction factor for the cable must be applied to the Conducted Power before a true power reading can be obtained. This is referred to as the “Corrected Power” (CP).

The equation shall be derived in the following manner:

Corrected Power Reading = Conducted Power Reading + C

Where, C = Cable Factor

The conducted power is taken in units of dBm. To obtain units of mW the following equation is used:

$$\text{mW} = 10^{(\text{dBm}/10)}$$



7.0 MODIFICATIONS AND RECOMMENDATIONS

No modifications were made to the EUT.



AEGIS LABS INC.

APPENDIX A

TEST DATA

Page 1 of 32 (Appendix A)
Report Number: INTEL-060331F
FCC ID: PD9WM3945ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

CLIENT:	Intel Corporation	DATE:	04/03/06
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-060331
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC/BM
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's mini PCI slot in 802.11a (5745-5825 MHz) mode with the Fujitsu Gilia Antenna2.	TEMPERATURE:	17 C
		HUMIDITY:	54% RH
		TIME:	11:25 AM

Standard:	FCC CFR 47, Part 15.247(c)
Description:	Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc.
Results:	Passes (See Data Sheets)

Unwanted Spurious Emissions Limits			
Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m) (Emissions in the restricted bands)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)
Above 960	500	54.00 (Average) 74.00 (Peak)	< -20 dBc

Page 2 of 32 (Appendix A)
Report Number: INTEL-060331F
FCC ID: PD9WM3945ABG



Spurious Radiated Emissions Test Results (Continued)

Fundamental Measurements in 802.11a mode (5745-5825 MHz)
Channels 149, 157, & 165
Continuous TX at MAIN Antenna port with Fujitsu Gilia Antenna2
Aegis Labs, Inc. File #: INTEL-060331-02

RADIATED EMISSIONS - Horizontal Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
5745.00	65.00	100	135				4.99	35.05	105.03		
5745.00				55.57	A		4.99	35.05	95.60		
5785.00	65.83	100	135				5.01	35.07	105.91		
5785.00				56.55	A		5.01	35.07	96.63		
5825.00	66.00	100	135				5.02	35.10	106.12		
5825.00				57.24	A		5.02	35.10	97.36		

RADIATED EMISSIONS – Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
5745.00	61.17	100	135				4.99	34.85	101.00		
5745.00				52.48	A		4.99	34.85	92.31		
5785.00	65.83	100	135				5.01	34.87	105.71		
5785.00				56.45	A		5.01	34.87	96.33		
5825.00	65.83	150	135				5.02	34.90	105.75		
5825.00				57.04	A		5.02	34.90	96.96		



Spurious Radiated Emissions Test Results (Continued)

Band Edge Field Strength Measurements in 802.11a mode (5745-5825 MHz)**Channels 149, 157, & 165****Continuous TX at MAIN Antenna port with Fujitsu Gilia Antenna2****Aegis Labs, Inc. File #: INTEL-060331-02****RADIATED EMISSIONS - Horizontal Antenna Polarization**

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
5725.00	31.67	100	135			4.98	35.04	71.68	85.03	-13.35
5850.00	31.33	100	135			5.03	35.11	71.47	86.12	-14.64

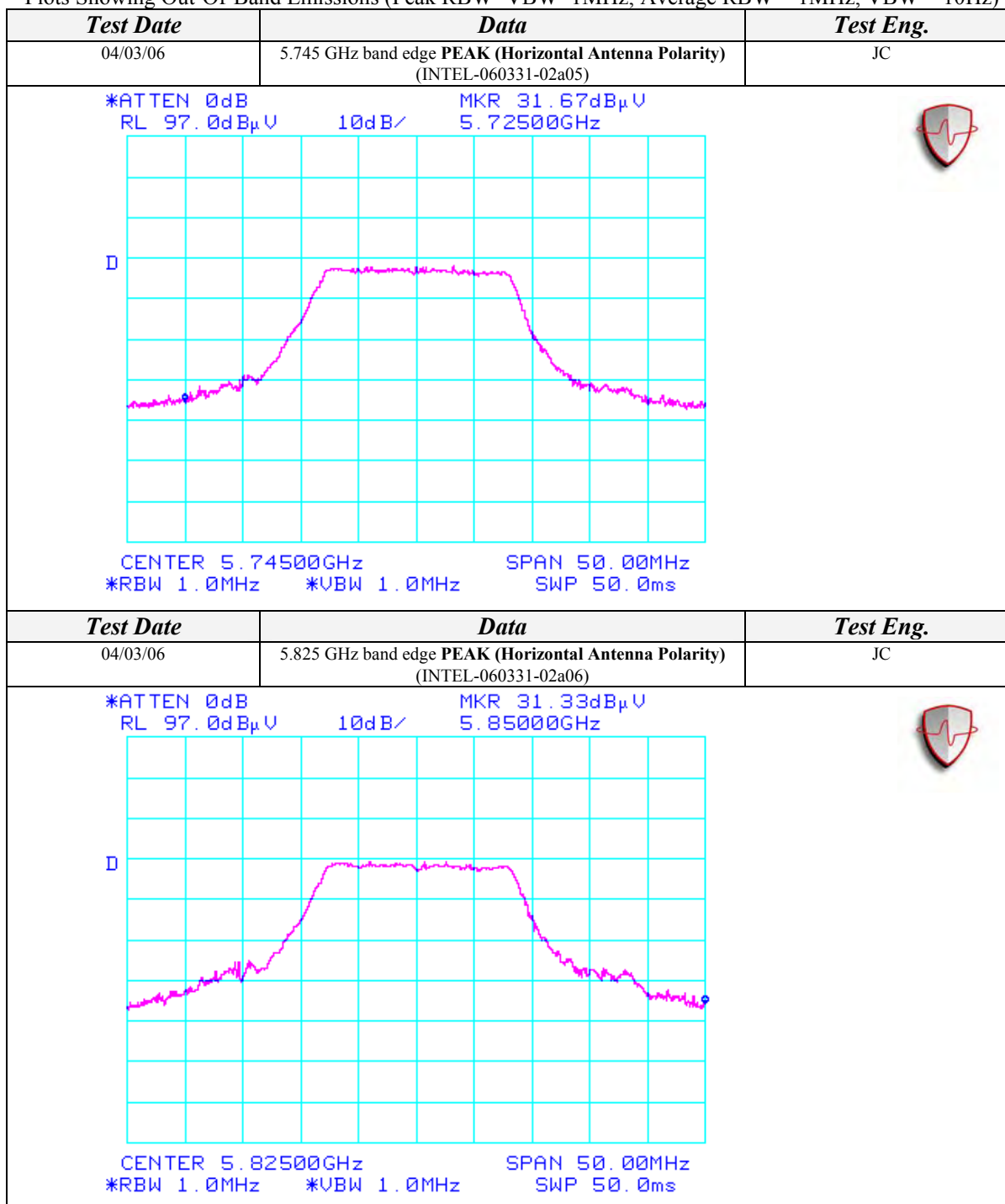
RADIATED EMISSIONS – Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
5725.00	31.17	100	135			4.98	34.84	70.98	81.00	-10.02
5850.00	30.67	100	135			5.03	34.91	70.61	85.75	-15.13



Spurious Radiated Emissions Test Results (Continued)

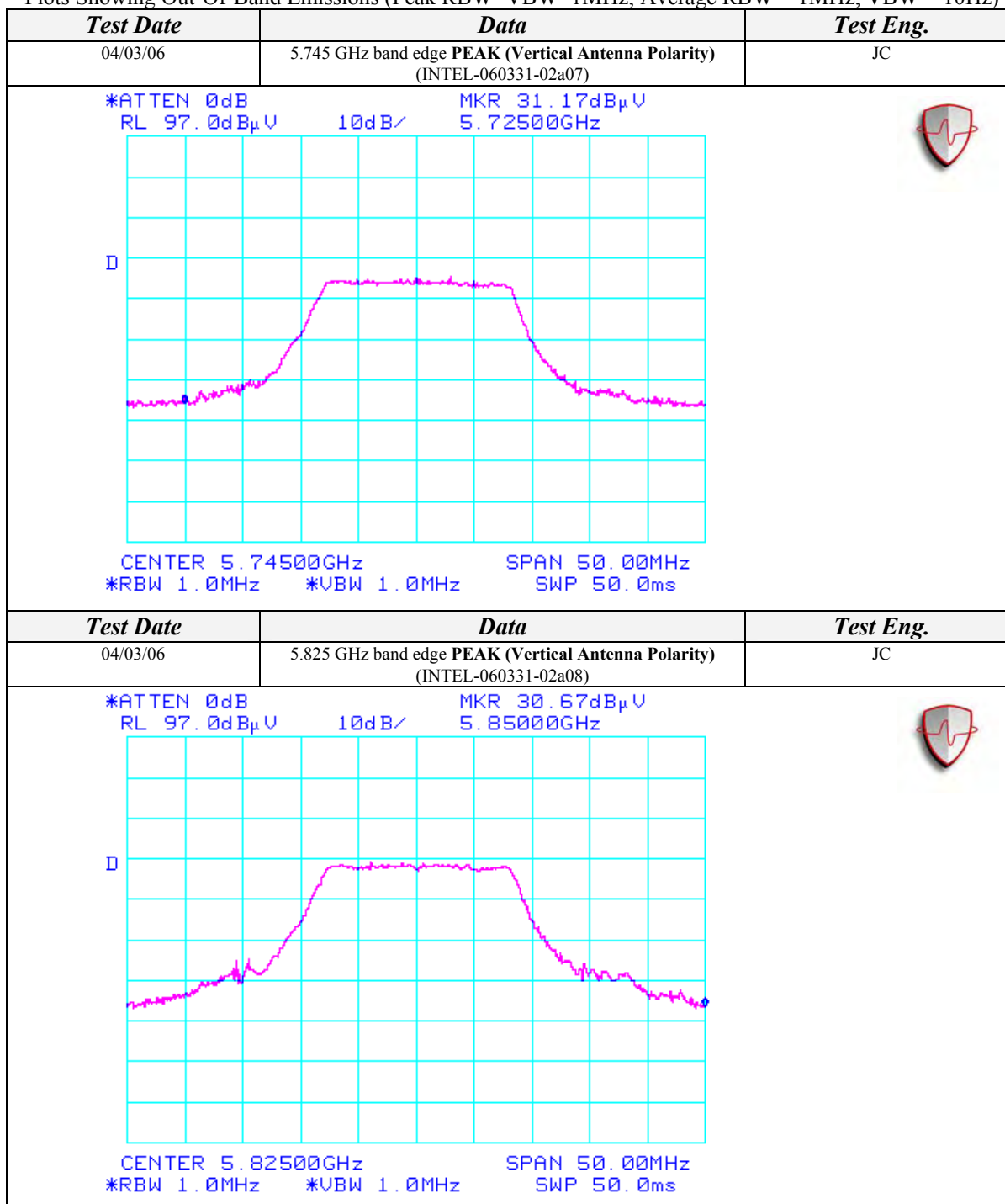
Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)





Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)





Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)
Channels 149, 157, & 165
Continuous TX at MAIN Antenna port with Fujitsu Gilia Antenna2
Aegis Labs, Inc. File #: INTEL-060331-04*

RADIATED EMISSIONS - Horizontal Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 149 (5.745 GHz)											
3830.00	53.00	100	225			46.75	4.05	32.46	42.76	74.00	-31.24
3830.00				41.32	A	46.75	4.05	32.46	31.08	54.00	-22.92
11490.00	60.17	100	180			44.97	7.41	39.49	62.10	74.00	-11.90
11490.00				47.76	A	44.97	7.41	39.49	49.69	54.00	-4.31
17235.00	54.83	100	225			43.94	9.09	42.97	62.95	85.03	-22.08
EUT in Continuous Transmit Mode on Channel 157 (5.785 GHz)											
3856.66	53.50	100	180			46.74	4.07	32.53	43.35	74.00	-30.65
3856.66				41.91	A	46.74	4.07	32.53	31.76	54.00	-22.24
7713.33	53.17	100	180			45.52	5.83	37.58	51.06	74.00	-22.94
7713.33				43.21	A	45.52	5.83	37.58	41.10	54.00	-12.90
11570.00	58.00	100	180			44.97	7.42	39.53	59.98	74.00	-14.02
11570.00				44.60	A	44.97	7.42	39.53	46.58	54.00	-7.42
17355.00	55.00	100	225			43.88	9.11	43.62	63.84	85.91	-22.07
EUT in Continuous Transmit Mode on Channel 165 (5.825 GHz)											
3883.33	53.83	100	225			46.74	4.08	32.60	43.78	74.00	-30.22
3883.33				41.83	A	46.74	4.08	32.60	31.78	54.00	-22.22
11650.00	57.50	100	180			44.96	7.42	39.56	59.51	74.00	-14.49
11650.00				41.70	A	44.96	7.42	39.56	43.71	54.00	-10.29
17475.00	54.33	100	180			43.81	9.12	44.27	63.90	86.12	-22.22



Spurious Radiated Emissions Test Results (Continued)

RADIATED EMISSIONS - Vertical Antenna Polarization											
<i>Freq. (MHz)</i>	<i>Meter Reading (dBuV)</i>	<i>Antenna Height (cm)</i>	<i>Azimuth (degrees)</i>	<i>Quasi pk or AVG (dBuV)</i>		<i>Preamp Factor (dB)</i>	<i>Cable Factor (dB)</i>	<i>Ant. Factor (dB)</i>	<i>Corrected Reading (dBuV)</i>	<i>Limits (dBuV)</i>	<i>Diff (dB) +=FAIL</i>
EUT in Continuous Transmit Mode on Channel 149 (5.745 GHz)											
3830.00	53.17	100	135			46.75	4.05	32.46	42.93	74.00	-31.07
3830.00				40.59	A	46.75	4.05	32.46	30.35	54.00	-23.65
11490.00	58.17	100	135			44.97	7.41	39.49	60.11	74.00	-13.89
11490.00				44.80	A	44.97	7.41	39.49	46.74	54.00	-7.26
17235.00	55.33	100	180			43.94	9.09	43.02	63.50	81.00	-17.50
EUT in Continuous Transmit Mode on Channel 157 (5.785 GHz)											
3856.66	53.86	125	180			46.74	4.07	32.53	43.71	74.00	-30.29
3856.66				42.29	A	46.74	4.07	32.53	32.14	54.00	-21.86
11570.00	55.67	100	180			44.97	7.42	39.54	57.66	74.00	-16.34
11570.00				43.01	A	44.97	7.42	39.54	45.00	54.00	-9.00
17355.00	56.67	100	225			43.88	9.11	43.65	65.54	85.71	-20.17
EUT in Continuous Transmit Mode on Channel 165 (5.825 GHz)											
3883.33	54.17	100	135			46.74	4.08	32.60	44.12	74.00	-29.88
3883.33				41.57	A	46.74	4.08	32.60	31.52	54.00	-22.48
11650.00	57.50	100	135			44.96	7.42	39.59	59.54	74.00	-14.46
11650.00				41.62	A	44.96	7.42	39.59	43.66	54.00	-10.34



Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)
Channels 149, 157, & 165
Continuous TX at MAIN Antenna port with Fujitsu Gilia Antenna2
Aegis Labs, Inc. File #: INTEL-060331-05*

RADIATED EMISSIONS - Horizontal Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Cable Factor (dB)	Antenna/ Preamp Factor (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 149 (5745 MHz)									
22980.00	45.83	100	180			10.62	-5.02	51.43	74.00 -22.57
22980.00				32.77	A	10.62	-5.02	38.37	54.00 -15.63
EUT in Continuous Transmit Mode on Channel 157 (5785 MHz)									
23140.00	46.67	100	135			10.66	-5.12	52.22	85.91 -33.69
EUT in Continuous Transmit Mode on Channel 165 (5825 MHz)									
23300.00	47.00	100	180			10.71	-5.20	52.51	86.12 -33.61

RADIATED EMISSIONS - Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Cable Factor (dB)	Antenna/ Preamp Factor (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 149 (5745 MHz)									
22980.00	46.33	100	135			10.62	-4.99	51.96	74.00 -22.05
22980.00				33.46	A	10.62	-4.99	39.09	54.00 -14.92
EUT in Continuous Transmit Mode on Channel 157 (5785 MHz)									
23140.00	47.00	100	135			10.66	-5.09	52.57	85.71 -33.14
EUT in Continuous Transmit Mode on Channel 165 (5825 MHz)									
23300.00	47.83	100	135			10.71	-5.16	53.37	85.75 -32.38



Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)
Channels 149, 157, & 165
Continuous RX at MAIN Antenna port with Fujitsu Gilia Antenna2
Aegis Labs, Inc. File #: INTEL-060331-04*

RADIATED EMISSIONS - Horizontal Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Receive Mode on Channel 149 (5.745 GHz)											
3830.00	53.50	100	135			46.75	4.05	32.46	43.26	74.00	-30.74
3830.00				42.18	A	46.75	4.05	32.46	31.94	54.00	-22.06
7660.00	52.67	100	135			45.56	5.81	37.34	50.26	74.00	-23.74
7660.00				42.26	A	45.56	5.81	37.34	39.85	54.00	-14.15
EUT in Continuous Receive Mode on Channel 157 (5.785 GHz)											
3856.62	54.00	100	135			46.74	4.07	32.53	43.85	74.00	-30.15
3856.62				42.64	A	46.74	4.07	32.53	32.49	54.00	-21.51
7713.32	53.33	100	135			45.52	5.83	37.58	51.22	74.00	-22.78
7713.32				43.02	A	45.52	5.83	37.58	40.91	54.00	-13.09
EUT in Continuous Receive Mode on Channel 165 (5.825 GHz)											
3883.34	54.33	100	135			46.73	4.08	32.60	44.28	74.00	-29.72
3883.34				42.13	A	46.73	4.08	32.60	32.08	54.00	-21.92
7766.62	53.00	100	135			45.48	5.85	37.83	51.20	74.00	-22.80
7766.62				43.85	A	45.48	5.85	37.83	42.05	54.00	-11.95



Spurious Radiated Emissions Test Results (Continued)

RADIATED EMISSIONS - Vertical Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Receive Mode on Channel 149 (5.745 GHz)											
3830.00	53.67	100	180			46.75	4.05	32.46	43.43	74.00	-30.57
3830.00				42.20	A	46.75	4.05	32.46	31.96	54.00	-22.04
7660.00	51.67	100	135			45.56	5.81	37.34	49.26	74.00	-24.74
7660.00				40.29	A	45.56	5.81	37.34	37.88	54.00	-16.12
EUT in Continuous Receive Mode on Channel 157 (5.785 GHz)											
3856.65	53.83	100	180			46.74	4.07	32.53	43.68	74.00	-30.32
3856.65				42.03	A	46.74	4.07	32.53	31.88	54.00	-22.12
7713.29	53.83	100	135			45.52	5.83	37.62	51.76	74.00	-22.24
7713.29				42.52	A	45.52	5.83	37.62	40.45	54.00	-13.55
EUT in Continuous Receive Mode on Channel 165 (5.825 GHz)											
3883.35	54.50	100	180			46.73	4.08	32.60	44.45	74.00	-29.55
3883.35				42.17	A	46.73	4.08	32.60	32.12	54.00	-21.88
7766.63	52.17	100	135			45.48	5.85	37.88	50.42	74.00	-23.58
7766.63				41.68	A	45.48	5.85	37.88	39.93	54.00	-14.07



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Spurious Radiated Emissions Test Results (Continued)

CLIENT:	Intel Corporation	DATE:	04/03/06
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-060331
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC/BM
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's mini PCI slot in 802.11b (2412-2462 MHz) mode with the Fujitsu Gilia Antenna2.	TEMPERATURE:	17 C
		HUMIDITY:	54% RH
		TIME:	11:25 AM

Standard:	FCC CFR 47, Part 15.247(c)
Description:	Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc.
Results:	Passes (See Data Sheets)

Unwanted Spurious Emissions Limits			
Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m) (Emissions in the restricted bands)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)
Above 960	500	54.00 (Average) 74.00 (Peak)	< -20 dBc

Page 12 of 32 (Appendix A)
Report Number: INTEL-060331F
FCC ID: PD9WM3945ABG



Spurious Radiated Emissions Test Results (Continued)

Fundamental Measurements in 802.11b mode (2412-2462 MHz)
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Fujitsu Gilia Antenna2
Aegis Labs, Inc. File #: INTEL-060331-02

RADIATED EMISSIONS - Horizontal Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
2412.00	74.67	100	135				3.19	29.22	107.08		
2412.00				71.19	A		3.19	29.22	103.60		
2437.00	75.17	100	135				3.20	29.27	107.65		
2437.00				71.62	A		3.20	29.27	104.10		
2462.00	74.83	100	135				3.22	29.32	107.38		
2462.00				71.37	A		3.22	29.32	103.92		

RADIATED EMISSIONS – Vertical Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
2412.00	70.83	100	270				3.19	29.42	103.44		
2412.00				67.35	A		3.19	29.42	99.96		
2437.00	71.33	100	270				3.20	29.47	104.01		
2437.00				67.96	A		3.20	29.47	100.64		
2462.00	71.17	100	270				3.22	29.52	103.92		
2462.00				67.78	A		3.22	29.52	100.53		

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Spurious Radiated Emissions Test Results (Continued)

Band Edge Field Strength Measurements in 802.11b mode (2412-2462 MHz)**Channels 1, 6, & 11****Continuous TX at MAIN Antenna port with Fujitsu Gilia Antenna2****Aegis Labs, Inc. File #: INTEL-060331-02****RADIATED EMISSIONS - Horizontal Antenna Polarization**

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
2390.00								52.75	74.00	-21.25
2390.00					A			41.43	54.00	-12.57
2400.00	32.50	100	135			3.18	29.20	64.88	87.08	-22.20
2483.50								53.05	74.00	-20.95
2483.50					A			42.42	54.00	-11.58
2487.00								53.88	74.00	-20.12
2487.00					A			42.58	54.00	-11.42

RADIATED EMISSIONS – Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
2390.00								49.11	74.00	-24.89
2390.00					A			37.79	54.00	-16.21
2400.00	32.00	100	270			3.18	29.40	64.58	83.44	-18.86
2483.50								49.59	74.00	-24.41
2483.50					A			39.03	54.00	-14.97
2487.00								50.42	74.00	-23.58
2487.00					A			39.19	54.00	-14.81

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

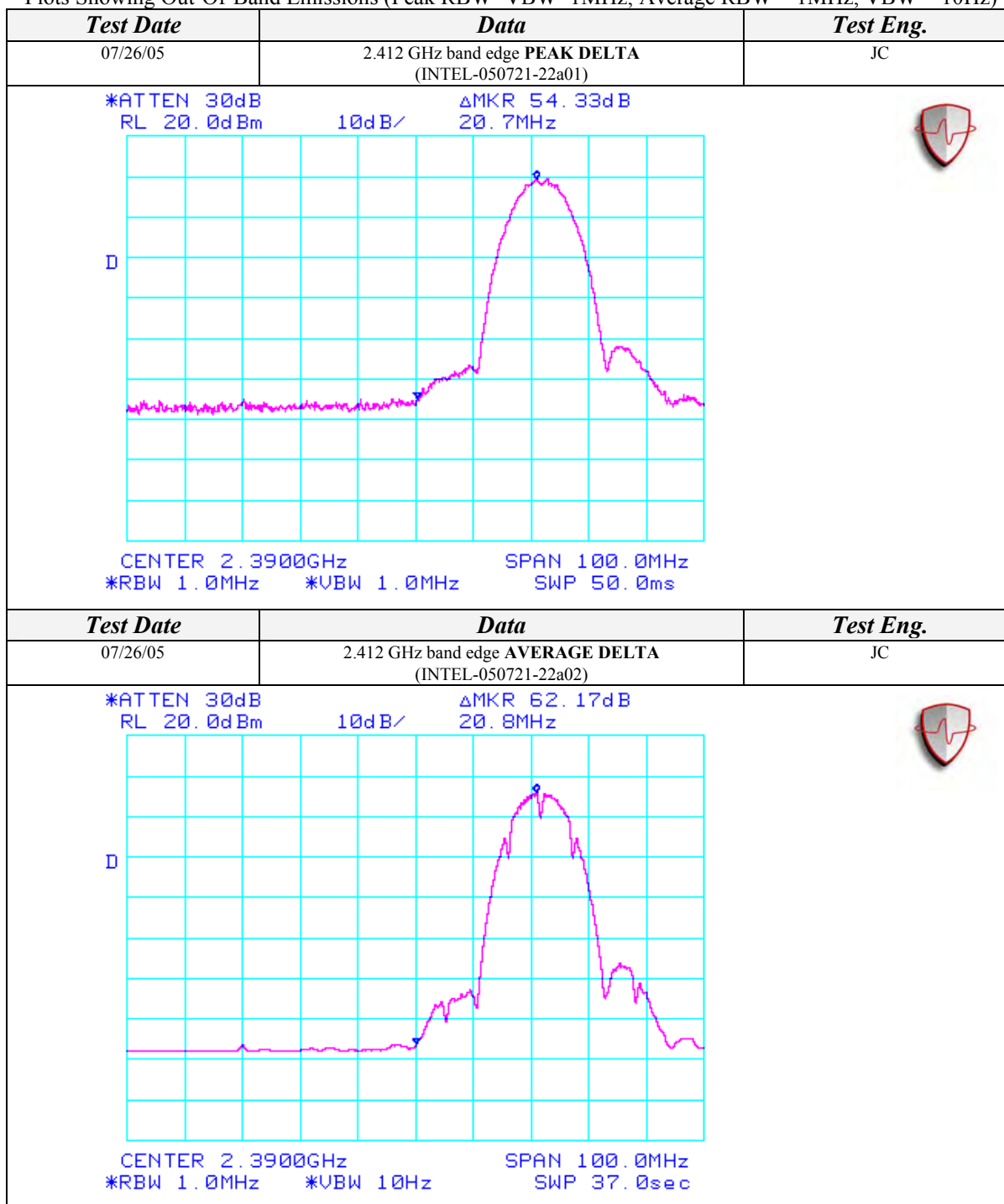
Δm = Measured Conducted Band Edge Delta (Peak or Average)



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Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



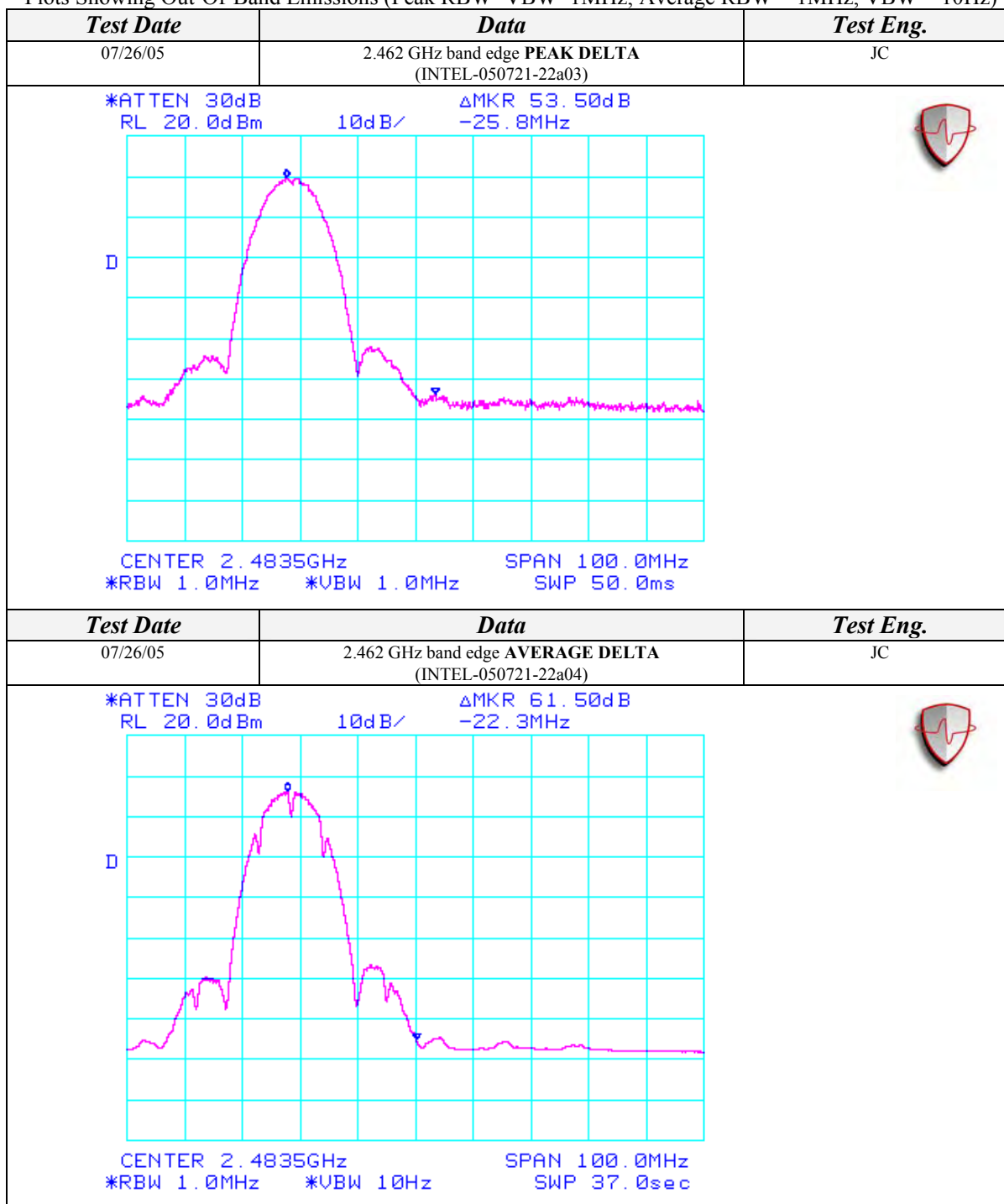
Page 15 of 32 (Appendix A)
Report Number: INTEL-060331F
FCC ID: PD9WM3945ABG



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Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



Page 16 of 32 (Appendix A)
Report Number: INTEL-060331F
FCC ID: PD9WM3945ABG



Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode (2412-2462 MHz)
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Fujitsu Gilia Antenna2
Aegis Labs, Inc. File #: INTEL-060331-03*

RADIATED EMISSIONS - Horizontal Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		1 Meter Distance Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)											
2312.00	32.00	100	225			9.54	1.97	29.02	53.45	74.00	-20.55
2312.00				16.86	A	9.54	1.97	29.02	38.31	54.00	-15.69
2360.00	31.33	100	225			9.54	1.99	29.12	52.90	74.00	-21.10
2360.00				15.71	A	9.54	1.99	29.12	37.28	54.00	-16.72
EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)											
2336.00	32.83	100	225			9.54	1.98	29.07	54.34	74.00	-19.66
2336.00				17.94	A	9.54	1.98	29.07	39.45	54.00	-14.55
2360.00	32.17	100	225			9.54	1.99	29.12	53.74	74.00	-20.26
2360.00				17.22	A	9.54	1.99	29.12	38.79	54.00	-15.21
EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)											
2358.66	32.33	100	225			9.54	1.99	29.12	53.90	74.00	-20.10
2358.66				16.78	A	9.54	1.99	29.12	38.35	54.00	-15.65
2360.00	31.50	100	225			9.54	1.99	29.12	53.07	74.00	-20.93
2360.00				16.12	A	9.54	1.99	29.12	37.69	54.00	-16.31



Spurious Radiated Emissions Test Results (Continued)

RADIATED EMISSIONS - Vertical Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		1 Meter Distance Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)											
2312.00	31.67	100	225			9.54	1.97	29.22	53.32	74.00	-20.68
2312.00				16.87	A	9.54	1.97	29.22	38.52	54.00	-15.48
2360.00	31.17	100	225			9.54	1.99	29.32	52.94	74.00	-21.06
2360.00				15.69	A	9.54	1.99	29.32	37.46	54.00	-16.54
EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)											
2336.00	32.50	100	225			9.54	1.98	29.27	54.21	74.00	-19.79
2336.00				17.71	A	9.54	1.98	29.27	39.42	54.00	-14.58
2360.00	31.33	100	225			9.54	1.99	29.32	53.10	74.00	-20.90
2360.00				15.88	A	9.54	1.99	29.32	37.65	54.00	-16.35
EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)											
2358.66	32.00	100	225			9.54	1.99	29.32	53.77	74.00	-20.23
2358.66				17.15	A	9.54	1.99	29.32	38.92	54.00	-15.08
2360.00	31.00	100	225			9.54	1.99	29.32	52.77	74.00	-21.23
2360.00				15.42	A	9.54	1.99	29.32	37.19	54.00	-16.81

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 3 meters.



Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode (2412-2462 MHz)
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Fujitsu Gilia Antenna2
Aegis Labs, Inc. File #: INTEL-060331-04*

RADIATED EMISSIONS - Horizontal Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)											
3216.00	55.00	100	180			46.82	3.71	30.98	42.86	87.08	-44.22
4824.00	57.50	100	270			46.57	4.57	34.10	49.60	74.00	-24.40
4824.00				48.75	A	46.57	4.57	34.10	40.85	54.00	-13.15
9648.01	60.50	100	135			44.78	6.56	38.11	60.38	87.08	-26.70
14472.00	52.33	125	225			45.41	8.22	41.63	56.77	74.00	-17.23
14472.00				42.27	A	45.41	8.22	41.63	46.71	54.00	-7.29
EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)											
3249.32	56.17	100	180			46.82	3.72	31.05	44.12	87.65	-43.53
4873.99	58.00	100	180			46.57	4.59	34.27	50.29	74.00	-23.71
4873.99				49.70	A	46.57	4.59	34.27	41.99	54.00	-12.01
7311.19	54.33	100	225			45.88	5.67	36.79	50.91	74.00	-23.09
7311.19				41.88	A	45.88	5.67	36.79	38.46	54.00	-15.54
9747.96	64.83	100	180			44.80	6.60	38.25	64.87	87.65	-22.78
12185.00	53.50	100	180			44.96	7.48	39.59	55.61	74.00	-18.39
12185.00				41.83	A	44.96	7.48	39.59	43.94	54.00	-10.06
EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)											
3282.66	54.83	100	180			46.82	3.74	31.12	42.87	87.38	-44.51
4924.00	59.67	100	180			46.58	4.61	34.44	52.14	74.00	-21.86
4924.00				48.89	A	46.58	4.61	34.44	41.36	54.00	-12.64
7386.00	58.17	100	180			45.80	5.70	36.71	54.79	74.00	-19.21
7386.00				47.06	A	45.80	5.70	36.71	43.68	54.00	-10.32
9848.01	61.50	100	180			44.83	6.64	38.39	61.70	87.38	-25.68
12310.00	54.00	100	180			44.97	7.53	39.51	56.07	74.00	-17.93
12310.00				42.80	A	44.97	7.53	39.51	44.87	54.00	-9.13



Spurious Radiated Emissions Test Results (Continued)

RADIATED EMISSIONS - Vertical Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)											
3216.00	53.83	100	180			46.82	3.71	31.09	41.81	83.44	-41.63
4824.01	56.67	100	180			46.57	4.57	34.07	48.74	74.00	-25.26
4824.01				49.22	A	46.57	4.57	34.07	41.29	54.00	-12.71
9648.01	58.17	100	180			44.78	6.56	38.17	58.11	83.44	-25.33
14472.00	52.83	100	180			45.41	8.22	41.63	57.27	74.00	-16.73
14472.00				40.10	A	45.41	8.22	41.63	44.54	54.00	-9.46
EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)											
3249.32	57.00	125	180			46.82	3.72	31.15	45.05	84.01	-38.96
4873.99	61.00	100	180			46.57	4.59	34.22	53.24	74.00	-20.76
4873.99				50.56	A	46.57	4.59	34.22	42.80	54.00	-11.20
7311.19	56.17	100	180			45.88	5.67	36.71	52.67	74.00	-21.33
7311.19				44.63	A	45.88	5.67	36.71	41.13	54.00	-12.87
9747.96	62.50	100	135			44.80	6.60	38.35	62.64	84.01	-21.37
12185.00	51.67	100	135			44.96	7.48	39.65	53.84	74.00	-20.16
12185.00				39.04	A	44.96	7.48	39.65	41.21	54.00	-12.79
EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)											
3282.66	55.67	100	135			46.82	3.74	31.21	43.80	83.92	-40.12
4924.00	60.50	100	135			46.58	4.61	34.37	52.90	74.00	-21.10
4924.00				52.17	A	46.58	4.61	34.37	44.57	54.00	-9.43
7386.00	56.17	100	225			45.80	5.70	36.67	52.74	74.00	-21.26
7386.00				44.42	A	45.80	5.70	36.67	40.99	54.00	-13.01
9848.01	62.00	100	135			44.83	6.64	38.53	62.34	83.92	-21.58



Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in in802.11b mode (2412-2462 MHz)
Channels 1, 6, & 11
Continuous RX at MAIN Antenna port with Fujitsu Gilia Antenna2
Aegis Labs, Inc. File #: INTEL-060331-04*

RADIATED EMISSIONS - Horizontal Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)										
3216.02	53.50	100	180			46.82	3.71	30.98	41.36	74.00 -32.64
3216.02				42.66	A	46.82	3.71	30.98	30.52	54.00 -23.48
EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)										
3249.32	55.17	100	180			46.82	3.72	31.05	43.12	74.00 -30.88
3249.32				44.83	A	46.82	3.72	31.05	32.78	54.00 -21.22
EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)										
3282.66	54.83	100	180			46.82	3.74	31.12	42.87	74.00 -31.13
3282.66				44.12	A	46.82	3.74	31.12	32.16	54.00 -21.84

RADIATED EMISSIONS - Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)										
3216.00	54.17	100	135			46.82	3.71	31.09	42.15	74.00 -31.85
3216.00				43.19	A	46.82	3.71	31.09	31.17	54.00 -22.83
EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)										
3249.32	55.33	100	135			46.82	3.72	31.15	43.38	74.00 -30.62
3249.32				45.16	A	46.82	3.72	31.15	33.21	54.00 -20.79
EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)										
3282.67	55.83	100	135			46.82	3.74	31.21	43.96	74.00 -30.04
3282.67				47.64	A	46.82	3.74	31.21	35.77	54.00 -18.23



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

CLIENT:	Intel Corporation	DATE:	04/03/06
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-060331
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC/BM
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's mini PCI slot in 802.11g (2412-2462 MHz) mode with the Fujitsu Gilia Antenna2	TEMPERATURE:	17 C
		HUMIDITY:	54% RH
		TIME:	11:25 AM

Standard:	FCC CFR 47, Part 15.247(c)
Description:	Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc.
Results:	Passes (See Data Sheets)

Unwanted Spurious Emissions Limits			
Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m) (Emissions in the restricted bands)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)
Above 960	500	54.00 (Average) 74.00 (Peak)	< -20 dBc

Page 22 of 32 (Appendix A)
Report Number: INTEL-060331F
FCC ID: PD9WM3945ABG



Spurious Radiated Emissions Test Results (Continued)

Fundamental Measurements in 802.11g mode (2412-2462 MHz)
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Fujitsu Gilia Antenna2
Aegis Labs, Inc. File #: INTEL-060331-02

RADIATED EMISSIONS - Horizontal Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
2412.00	73.83	100	135			3.19	29.22	106.24		
2412.00				65.03	A	3.19	29.22	97.44		
2437.00	76.00	100	135			3.20	29.27	108.48		
2437.00				67.25	A	3.20	29.27	99.73		
2462.00	73.33	100	135			3.22	29.32	105.88		
2462.00				65.11	A	3.22	29.32	97.66		

RADIATED EMISSIONS – Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
2412.00	70.67	100	180			3.19	29.42	103.28		
2412.00				62.26	A	3.19	29.42	94.87		
2437.00	72.17	100	180			3.20	29.47	104.85		
2437.00				63.50	A	3.20	29.47	96.18		
2462.00	69.67	100	135			3.22	29.52	102.42		
2462.00				61.48	A	3.22	29.52	94.23		

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Spurious Radiated Emissions Test Results (Continued)

Band Edge Field Strength Measurements in 802.11g mode (2412-2462 MHz)**Channels 1, 6, & 11****Continuous TX at MAIN Antenna port with Fujitsu Gilia Antenna2****Aegis Labs, Inc. File #: INTEL-060331-02****RADIATED EMISSIONS - Horizontal Antenna Polarization**

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
2390.00								69.41	74.00	-4.59
2390.00					A			50.61	54.00	-3.39
2400.00	49.17	100	135			3.18	29.20	81.55	86.24	-4.69
2483.50								65.71	74.00	-8.29
2483.50					A			48.16	54.00	-5.84

RADIATED EMISSIONS – Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
2390.00								66.45	74.00	-7.55
2390.00					A			48.04	54.00	-5.96
2400.00	45.17	100	180			3.18	29.40	77.75	83.28	-5.53
2483.50								62.25	74.00	-11.75
2483.50					A			44.73	54.00	-9.27

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

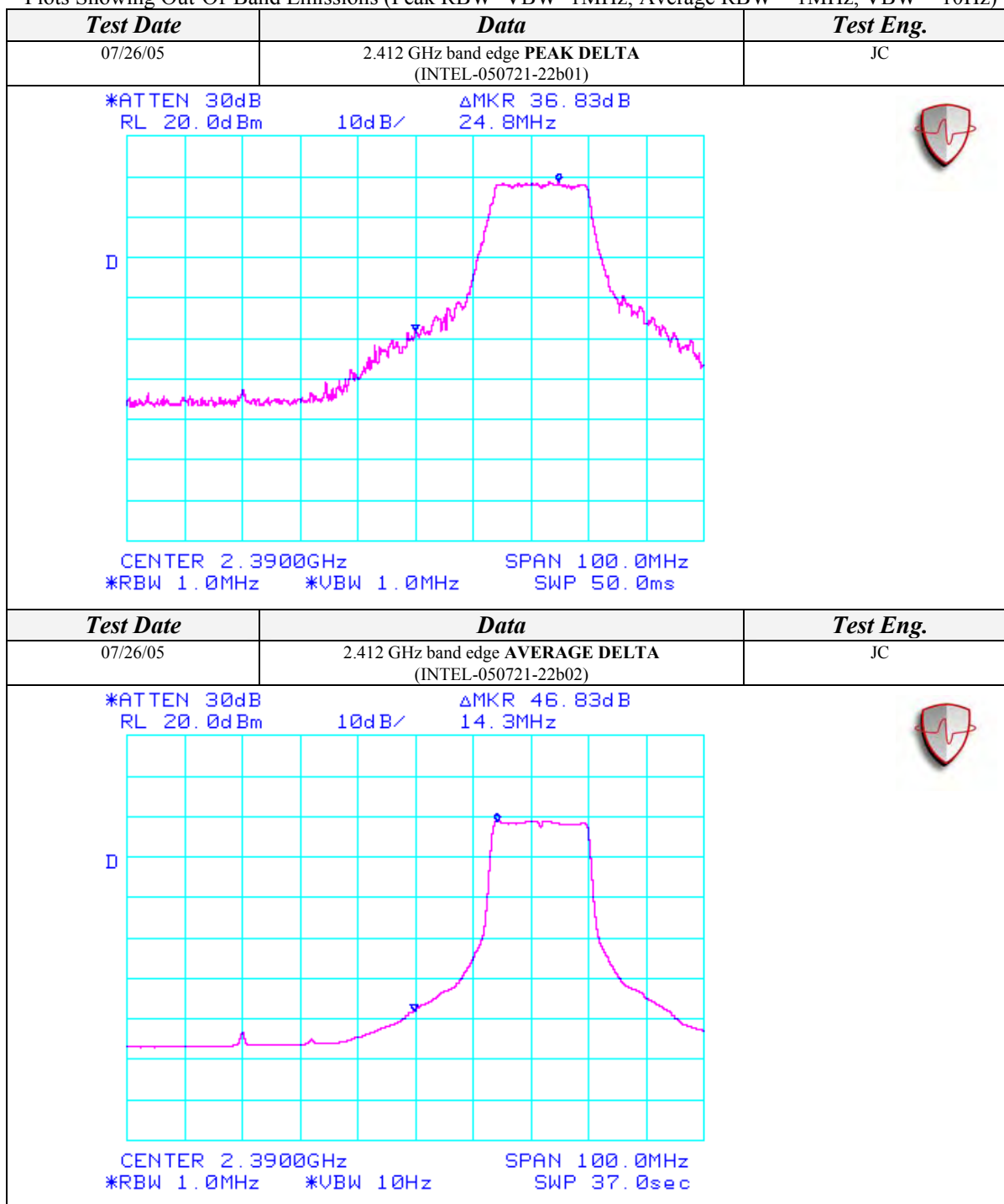
Δm = Measured Conducted Band Edge Delta (Peak or Average)



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



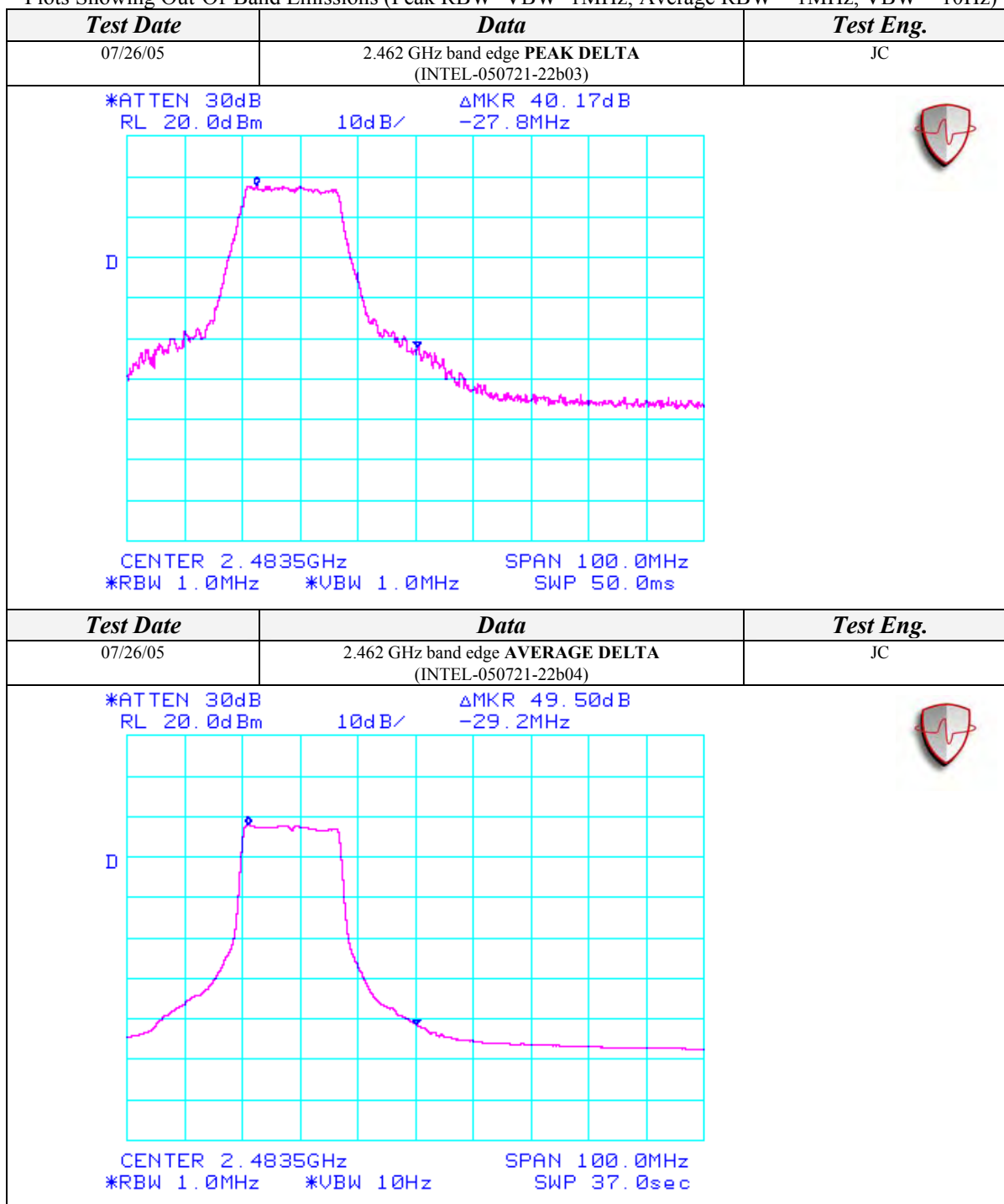
Page 25 of 32 (Appendix A)
Report Number: INTEL-060331F
FCC ID: PD9WM3945ABG



AEGIS LABS INC.

Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



Page 26 of 32 (Appendix A)
Report Number: INTEL-060331F
FCC ID: PD9WM3945ABG



Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Fujitsu Gilia Antenna2
Aegis Labs, Inc. File #: INTEL-060331-03*

RADIATED EMISSIONS - Horizontal Antenna Polarization											
<i>Freq. (MHz)</i>	<i>Meter Reading (dBuV)</i>	<i>Antenna Height (cm)</i>	<i>Azimuth (degrees)</i>	<i>Quasi pk or AVG (dBuV)</i>		<i>1 Meter Distance Factor (dB)</i>	<i>Cable Factor (dB)</i>	<i>Ant. Factor (dB)</i>	<i>Corrected Reading (dBuV)</i>	<i>Limits (dBuV)</i>	<i>Diff (dB) +=FAIL</i>
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)											
2312.00	31.83	100	225			9.54	1.97	29.02	53.28	74.00	-20.72
2312.00				16.76	A	9.54	1.97	29.02	38.21	54.00	-15.79
2360.00	31.33	100	225			9.54	1.99	29.12	52.90	74.00	-21.10
2360.00				15.31	A	9.54	1.99	29.12	36.88	54.00	-17.12
EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)											
2336.00	34.17	100	225			9.54	1.98	29.07	55.68	74.00	-18.32
2336.00				24.85	A	9.54	1.98	29.07	46.36	54.00	-7.64
2360.00	32.83	100	225			9.54	1.99	29.12	54.40	74.00	-19.60
2360.00				18.64	A	9.54	1.99	29.12	40.21	54.00	-13.79
EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)											
2358.66	32.17	100	225			9.54	1.99	29.12	53.74	74.00	-20.26
2358.66				17.52	A	9.54	1.99	29.12	39.09	54.00	-14.91
2360.00	31.50	100	225			9.54	1.99	29.12	53.07	74.00	-20.93
2360.00				15.26	A	9.54	1.99	29.12	36.83	54.00	-17.17



Spurious Radiated Emissions Test Results (Continued)

RADIATED EMISSIONS - Vertical Antenna Polarization											
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		1 Meter Distance Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)											
2312.00	31.83	100	225			9.54	1.97	29.22	53.48	74.00	-20.52
2312.00				16.99	A	9.54	1.97	29.22	38.64	54.00	-15.36
2360.00	31.50	100	225			9.54	1.99	29.32	53.27	74.00	-20.73
2360.00				15.74	A	9.54	1.99	29.32	37.51	54.00	-16.49
EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)											
2336.00	33.00	100	225			9.54	1.98	29.27	54.71	74.00	-19.29
2336.00				20.78	A	9.54	1.98	29.27	42.49	54.00	-11.51
2360.00	32.67	100	225			9.54	1.99	29.32	54.44	74.00	-19.56
2360.00				19.06	A	9.54	1.99	29.32	40.83	54.00	-13.17
EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)											
2358.66	32.00	100	225			9.54	1.99	29.32	53.77	74.00	-20.23
2358.66				17.40	A	9.54	1.99	29.32	39.17	54.00	-14.83
2360.00	31.67	100	225			9.54	1.99	29.32	53.44	74.00	-20.56
2360.00				15.64	A	9.54	1.99	29.32	37.41	54.00	-16.59

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 3 meters.



Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)
Channels 1, 6, & 11
Continuous TX at MAIN Antenna port with Fujitsu Gilia Antenna2
Aegis Labs, Inc. File #: INTEL-060331-04*

RADIATED EMISSIONS - Horizontal Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)										
3216.00	54.17	100	180			46.82	3.71	30.98	42.03	86.24 -44.21
9648.00	53.17	100	180			44.78	6.56	38.11	53.05	86.24 -33.19
EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)										
3249.32	53.67	100	180			46.82	3.72	31.05	41.62	88.48 -46.86
9747.96	56.17	100	180			44.80	6.60	38.25	56.21	88.48 -32.27
EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)										
3282.66	54.33	100	180			46.82	3.74	31.12	42.37	85.88 -43.51
9848.01	53.83	100	180			44.83	6.64	38.39	54.03	85.88 -31.85

RADIATED EMISSIONS - Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)										
3216.00	54.50	100	180			46.82	3.71	31.09	42.48	83.28 -40.80
9648.00	51.83	100	180			44.78	6.56	38.17	51.77	83.28 -31.51
EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)										
3249.32	55.67	100	180			46.82	3.72	31.15	43.72	84.85 -41.13
9747.96	58.00	100	180			44.80	6.60	38.35	58.14	84.85 -26.71
EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)										
3282.66	56.67	100	180			46.82	3.74	31.21	44.80	82.42 -37.62
9848.01	53.67	100	180			44.83	6.64	38.53	54.01	82.42 -28.41



Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)
Channels 1, 6, & 11
Continuous RX at MAIN Antenna port with Fujitsu Gilia Antenna2
Aegis Labs, Inc. File #: INTEL-060331-04*

RADIATED EMISSIONS - Horizontal Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)										
3216.00	55.17	100	180			46.82	3.71	30.98	43.03	74.00 -30.97
3216.00				45.03	A	46.82	3.71	30.98	32.89	54.00 -21.11
EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)										
3249.32	54.83	100	180			46.82	3.72	31.05	42.78	74.00 -31.22
3249.32				44.87	A	46.82	3.72	31.05	32.82	54.00 -21.18
EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)										
3282.66	54.50	100	180			46.82	3.74	31.12	42.54	74.00 -31.46
3282.66				44.39	A	46.82	3.74	31.12	32.43	54.00 -21.57

RADIATED EMISSIONS - Vertical Antenna Polarization

Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)	Preamp Factor (dB)	Cable Factor (dB)	Ant. Factor (dB)	Corrected Reading (dBuV)	Limits (dBuV)	Diff (dB) +=FAIL
EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)										
3216.00	55.17	100	135			46.82	3.71	31.09	43.15	74.00 -30.85
3216.00				44.75	A	46.82	3.71	31.09	32.73	54.00 -21.27
EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)										
3249.33	55.50	100	135			46.82	3.72	31.15	43.55	74.00 -30.45
3249.33				45.07	A	46.82	3.72	31.15	33.12	54.00 -20.88
EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)										
3282.67	56.33	100	135			46.82	3.74	31.21	44.46	74.00 -29.54
3282.67				45.51	A	46.82	3.74	31.21	33.64	54.00 -20.36



AEGIS LABS INC.

PEAK TRANSMIT POWER

CLIENT:	Intel Corporation	DATE:	03/31/06
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-060331
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	00B11A295CVD26965002	SITE #:	2
CONFIGURATION:	Tested installed in the host computer's mini PCI slot.	TEMPERATURE:	17 C
		HUMIDITY:	53% RH
		TIME:	3:00 PM

Standard:	FCC CFR 47, Part 15.247(b)(3)
Description:	The maximum peak output power of the intentional radiator shall not exceed 1 watt.
Results:	See Data Sheet

Peak Transmit Power Limits	
Frequency (MHz)	Output Power (W)
5725-5850	1
2412-2462	1

Page 31 of 32 (Appendix A)
Report Number: INTEL-060331F
FCC ID: PD9WM3945ABG



Peak Transmit Power (Continued)

Mode	Channel	Frequency (MHz)	Rate (Mbps)	Average Power (dBm)	Average Power (mW)	Peak Power (dBm)	Peak Power (mW)
802.11a	149	5745	6	17.03	50.47	19.50	89.13
802.11a	157	5785	6	17.24	52.97	19.90	97.72
802.11a	165	5825	6	16.91	49.09	19.40	87.10
802.11b	1	2412	1	17.25	53.09	19.83	96.16
802.11b	6	2437	1	18.27	67.14	20.73	118.30
802.11b	11	2462	1	18.06	63.97	20.51	112.46
802.11g	1	2412	6	15.94	39.26	24.33	271.02
802.11g	6	2437	6	17.01	50.23	24.84	304.79
802.11g	11	2462	6	15.09	32.28	24.05	254.10

NOTE: The output power measurement is conducted.