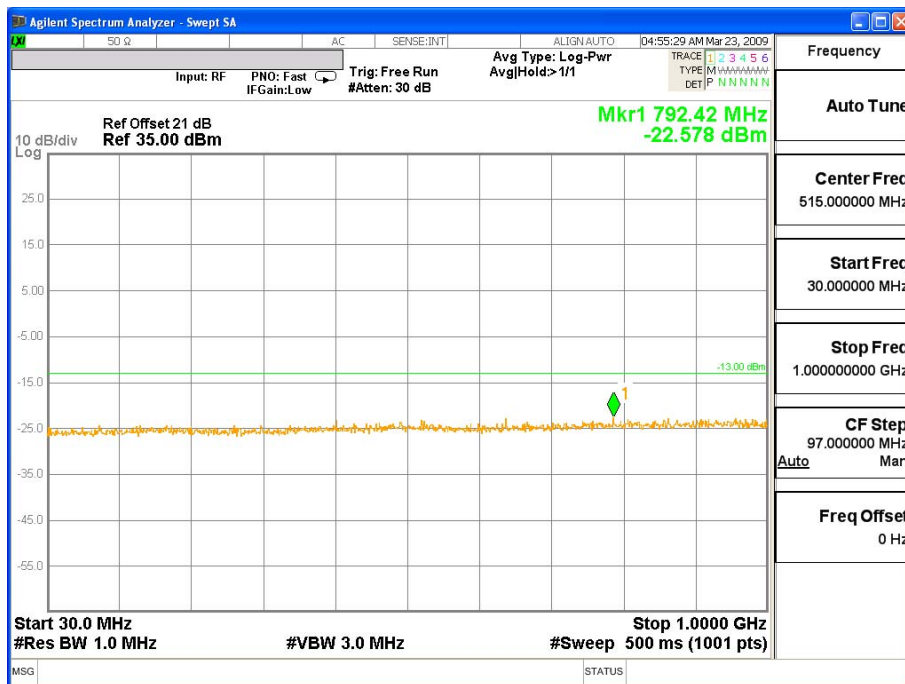
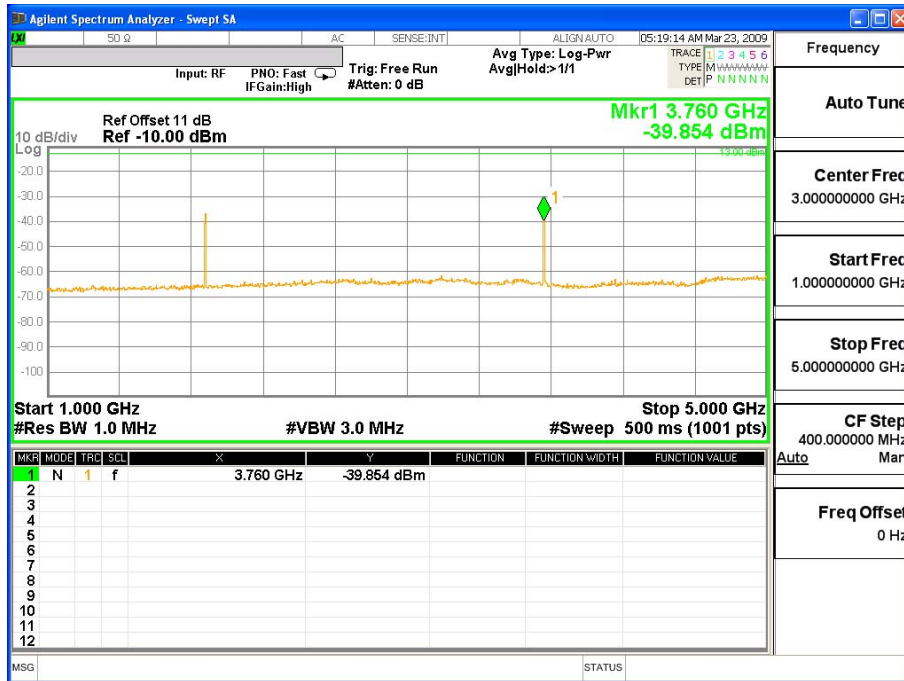


Product	Notebook		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2009/03/28	Test Site	CTR
Test Condition	WCDMA BAND II HSDPA	Test Range	30MHz~20GHz

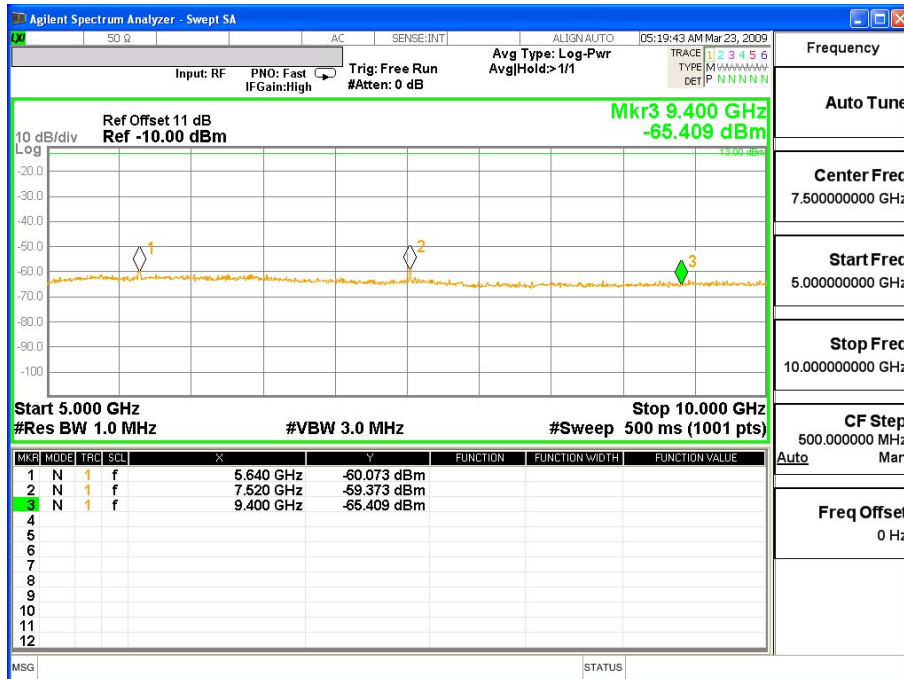
**WCDMA BAND II HSDPA Mid-Channel 9400**

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
3760	-39.854	1.1	-38.754	-13
5640	-60.073	1.23	-58.843	-13
7520	-59.373	1.59	-57.783	-13
9400	-65.409	1.89	-63.519	-13
11280	-63.585	2.07	-61.515	-13
13160	-63.224	2.26	-60.964	-13
15040	-60.831	2.64	-58.191	-13
16920	-61.231	3.5	-57.731	-13
18800	-58.958	3.7	-55.258	-13

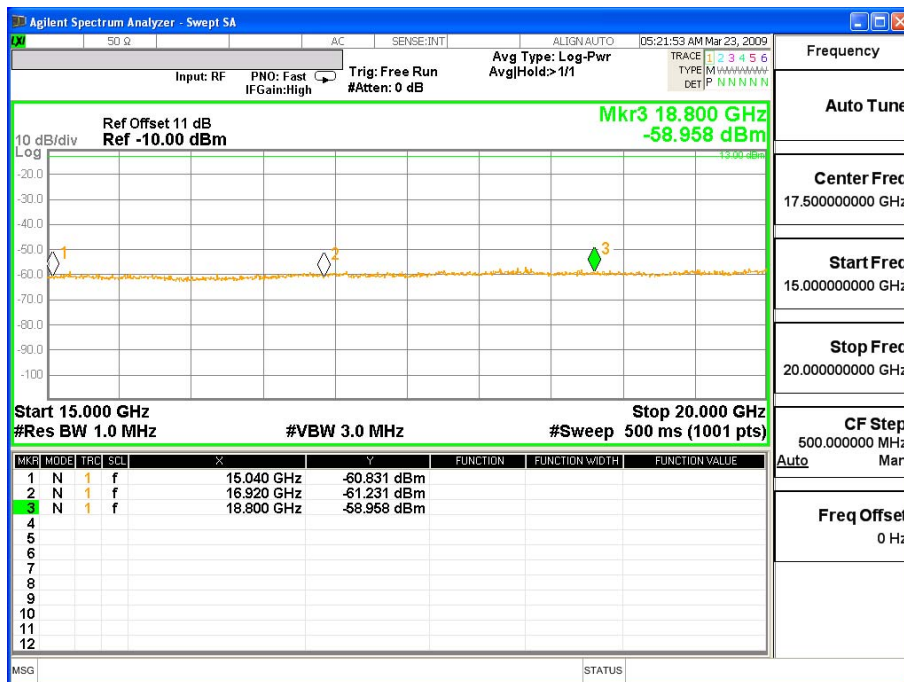
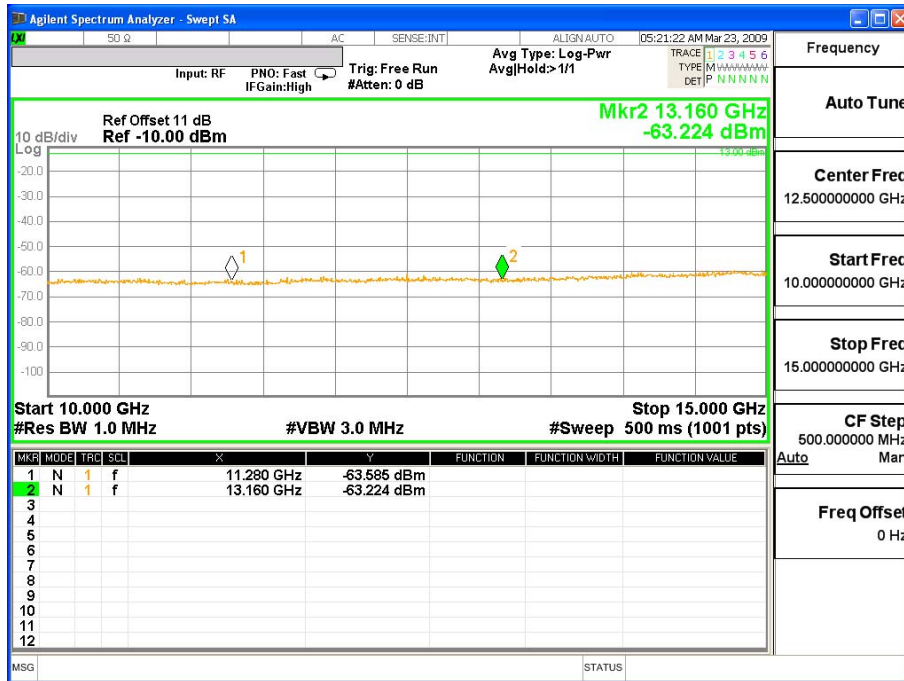




Frequency
Auto Tune
Center Freq 3.000000000 GHz
Start Freq 1.000000000 GHz
Stop Freq 5.000000000 GHz
CF Step 400.0000000 MHz
Auto Man
Freq Offset 0 Hz



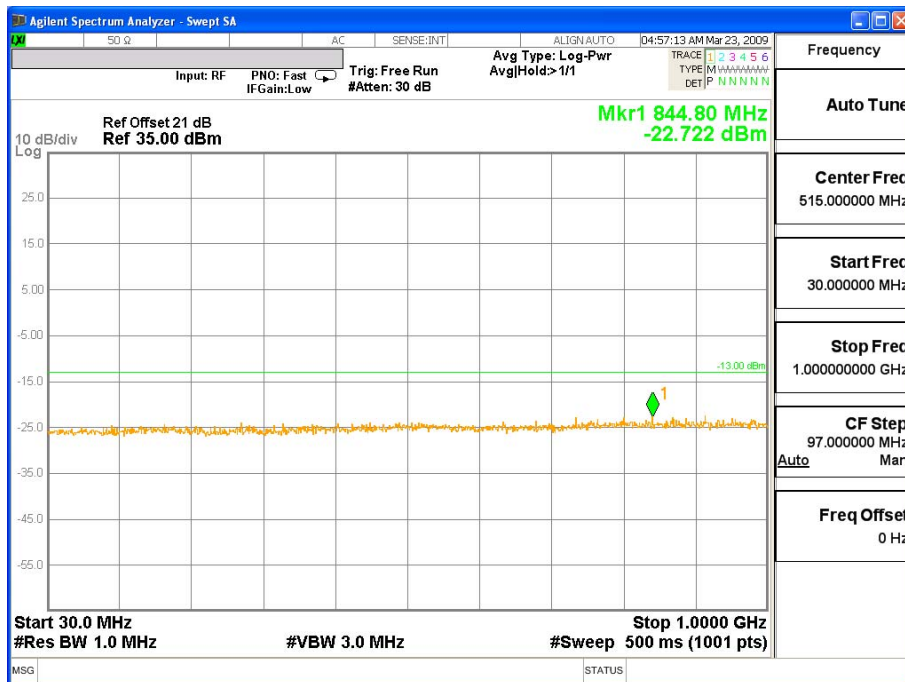
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Auto Tune
Center Freq 7.500000000 GHz
Start Freq 5.000000000 GHz
Stop Freq 10.000000000 GHz
CF Step 500.0000000 MHz
Auto Man
Freq Offset 0 Hz

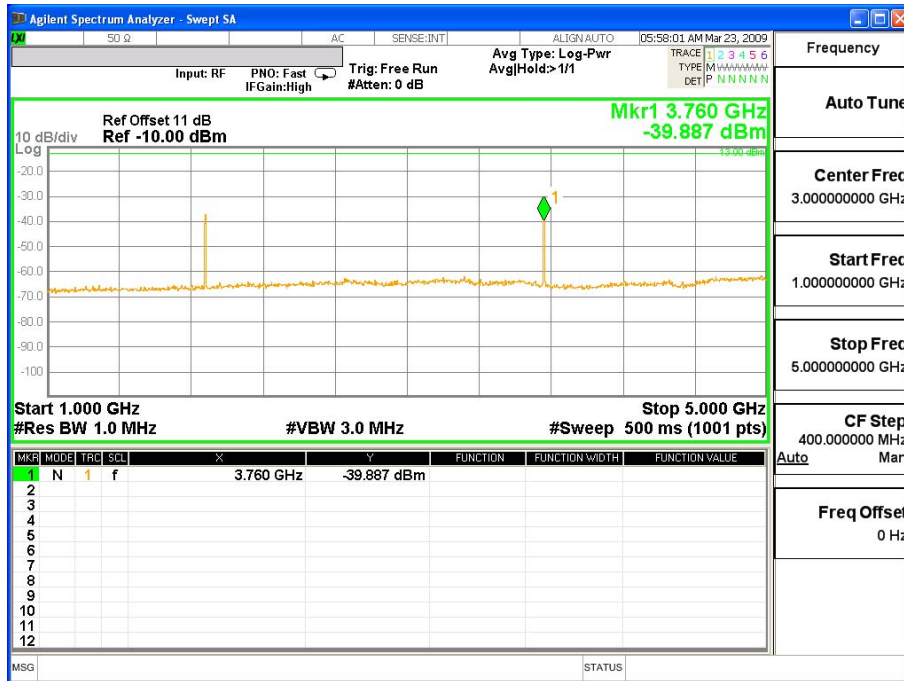


Product	Notebook		
Test Mode	Spurious Emission (Conducted)		
Date of Test	2009/03/28	Test Site	CTR
Test Condition	WCDMA BAND II HSUPA	Test Range	30MHz~20GHz

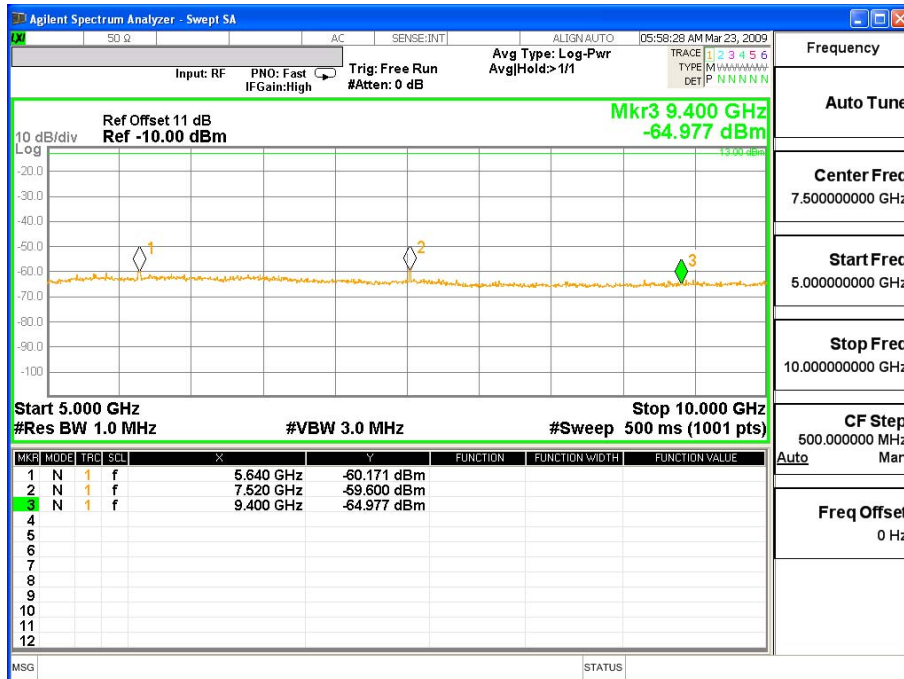
**WCDMA BAND II HSUPA Mid-Channel 9400**

Frequency (MHz)	Reading Level (dBm)	Path Loss (dB)	Emission Level (dBm)	Limit (dBm)
3760	-39.887	1.1	-38.787	-13
5640	-60.171	1.23	-58.941	-13
7520	-59.600	1.59	-58.010	-13
9400	-64.977	1.89	-63.087	-13
11280	-63.832	2.07	-61.762	-13
13160	-64.462	2.26	-62.202	-13
15040	-59.949	2.64	-57.309	-13
16920	-58.475	3.5	-54.975	-13
18800	-58.016	3.7	-54.316	-13

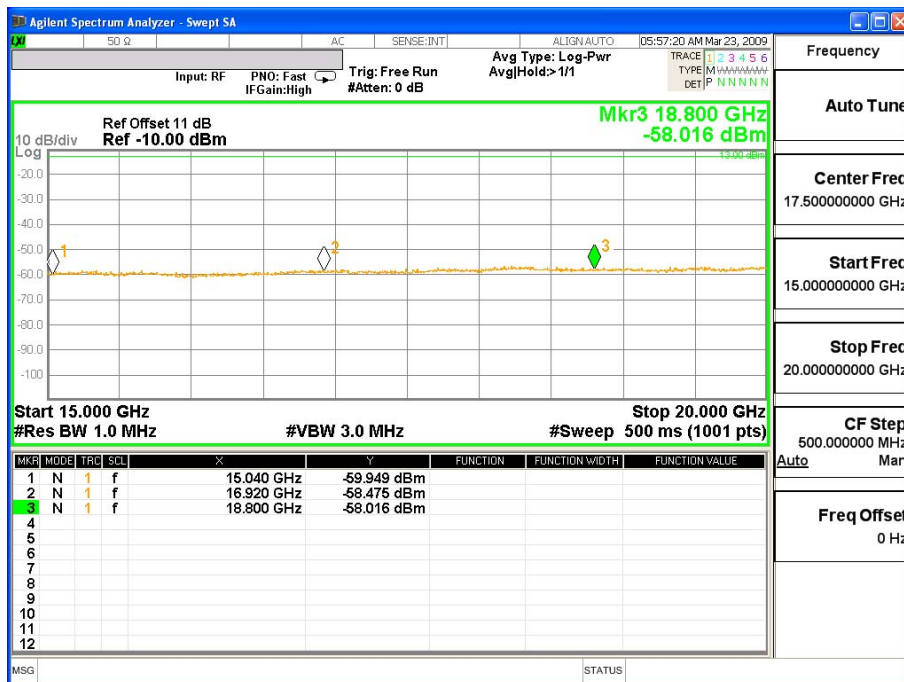
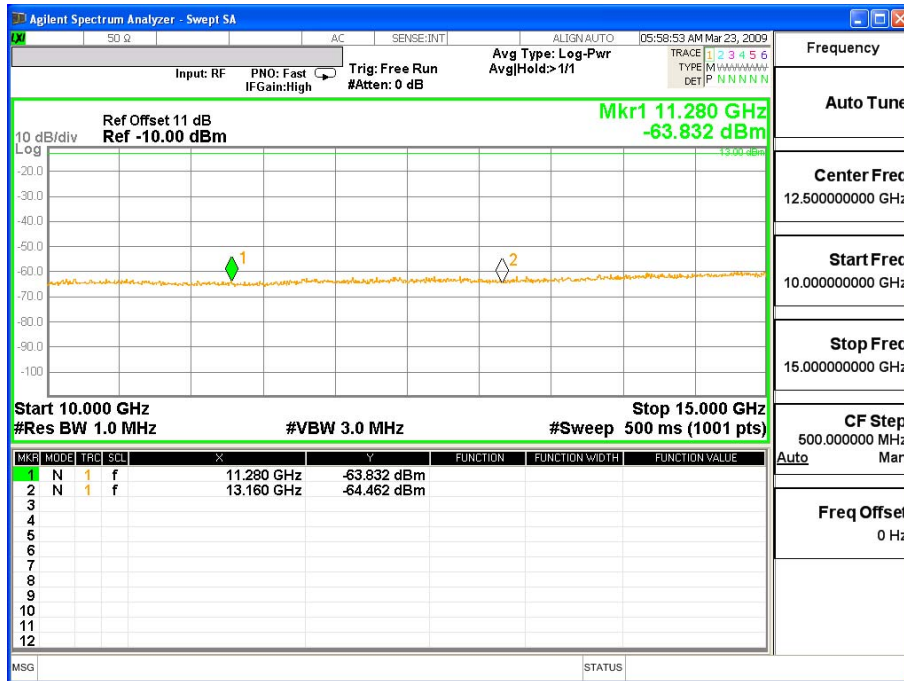




Frequency
Auto Tune
Center Freq 3.000000000 GHz
Start Freq 1.000000000 GHz
Stop Freq 5.000000000 GHz
CF Step 400.0000000 MHz
Auto Man
Freq Offset 0 Hz



Frequency
Auto Tune
Center Freq 7.500000000 GHz
Start Freq 5.000000000 GHz
Stop Freq 10.000000000 GHz
CF Step 500.0000000 MHz
Auto Man
Freq Offset 0 Hz



Product	Notebook		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/03/28	Test Site	OATS 3
Test Condition	Channel 189 (GSM 850 GPRS)	Test Range	30MHz~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

### Horizontal Emissions

1672.8	-46.501	-51.192	1.630	9.800	-43.022	-13
2509.2	-50.688	-50.855	2.100	10.600	-42.355	-13
3345.6	-59.642	-61.065	2.350	12.300	-51.115	-13
4182	-60.100	-59.584	2.700	12.600	-49.684	-13
5018.4	-58.434	-54.684	2.830	12.700	-44.814	-13
5854.8	-61.237	-55.787	3.200	13.000	-45.987	-13

### Vertical Emissions

1672.8	-50.021	-54.338	1.630	9.800	-46.168	-13
2509.2	-53.214	-53.911	2.100	10.600	-45.411	-13
3345.6	-59.636	-61.570	2.350	12.300	-51.620	-13
4182	-59.129	-58.267	2.700	12.600	-48.367	-13
5018.4	-53.066	-50.180	2.830	12.700	-40.310	-13
5854.8	-62.142	-57.197	3.200	13.000	-47.397	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	Notebook		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/03/28	Test Site	OATS 3
Test Condition	Channel 189 (GSM 850 EGPRS)	Test Range	30MHz~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

### Horizontal Emissions

1672.8	-52.281	-56.972	1.630	9.800	-48.802	-13
2509.2	-56.699	-56.860	2.100	10.600	-48.360	-13
3345.6	-58.962	-60.410	2.350	12.300	-50.460	-13
4182	-59.534	-59.055	2.700	12.600	-49.155	-13
5018.4	-58.635	-55.115	2.830	12.700	-45.245	-13
5854.8	-62.131	-56.706	3.200	13.000	-46.906	-13

### Vertical Emissions

1672.8	-54.509	-58.824	1.630	9.800	-50.654	-13
2509.2	-54.959	-55.715	2.100	10.600	-47.215	-13
3345.6	-58.732	-60.703	2.350	12.300	-50.753	-13
4182	-59.397	-58.805	2.700	12.600	-48.905	-13
5018.4	-53.394	-50.501	2.830	12.700	-40.631	-13
5854.8	-62.248	-57.301	3.200	13.000	-47.501	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.



Product	Notebook		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/03/28	Test Site	OATS 3
Test Condition	Channel 661 (PCS1900 GPRS)	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

### Horizontal Emissions

3760	-56.103	-56.633	2.530	12.600	-46.563	-13
5640	-57.508	-53.012	3.050	13.100	-42.962	-13
7520	-60.464	-49.464	3.650	11.500	-41.614	-13
9400	-61.462	-45.404	3.850	12.000	-37.254	-13
11280	-61.814	-46.676	4.580	12.000	-39.256	-13

### Vertical Emissions

3760	-55.249	-56.061	2.530	12.600	-45.991	-13
5640	-58.221	-54.221	3.050	13.100	-44.171	-13
7520	-59.868	-49.172	3.650	11.500	-41.322	-13
9400	-61.104	-45.076	3.850	12.000	-36.926	-13
11280	-60.888	-46.186	4.580	12.000	-38.766	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	Notebook		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/03/28	Test Site	OATS 3
Test Condition	Channel 661 (PCS1900 EGPRS)	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

#### Horizontal Emissions

3760	-56.480	-57.010	2.530	12.600	-46.940	-13
5640	-59.570	-55.074	3.050	13.100	-45.024	-13
7520	-60.306	-49.306	3.650	11.500	-41.456	-13
9400	-59.685	-43.718	3.850	12.000	-35.568	-13
11280	-60.661	-45.595	4.580	12.000	-38.175	-13

#### Vertical Emissions

3760	-58.572	-59.384	2.530	12.600	-49.314	-13
5640	-59.878	-55.861	3.050	13.100	-45.811	-13
7520	-61.082	-50.382	3.650	11.500	-42.532	-13
9400	-61.018	-45.016	3.850	12.000	-36.866	-13
11280	-60.636	-46.053	4.580	12.000	-38.633	-13

#### Note:

1. Receiver setting (Peak Detector) : RBW:1MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	Notebook		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/03/28	Test Site	OATS 3
Test Condition	Channel 4183 (WCDMA BAND V )	Test Range	30MHz~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

### Horizontal Emissions

1672.8	-62.940	-67.632	1.630	9.800	-59.462	-13
2509.2	-61.720	-61.887	2.100	10.600	-53.387	-13
3352	-63.130	-64.550	2.350	12.300	-54.600	-13
4182	-65.080	-64.619	2.700	12.600	-54.719	-13
5018.4	-61.770	-58.039	2.830	12.700	-48.169	-13
5854.8	-66.570	-61.135	3.200	13.000	-51.335	-13

### Vertical Emissions

1672.8	-58.320	-62.637	1.630	9.800	-54.467	-13
2509.2	-56.250	-56.947	2.100	10.600	-48.447	-13
3352	-63.130	-65.060	2.350	12.300	-55.110	-13
4182	-65.370	-64.634	2.700	12.600	-54.734	-13
5018.4	-54.610	-51.492	2.830	12.700	-41.622	-13
5854.8	-65.620	-60.661	3.200	13.000	-50.861	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	Notebook		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/03/28	Test Site	OATS 3
Test Condition	Channel 4183 (WCDMA BAND V HSDPA)	Test Range	30MHz~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

### Horizontal Emissions

1672.8	-62.500	-67.192	1.630	9.800	-59.022	-13
2509.2	-61.540	-61.707	2.100	10.600	-53.207	-13
3345.6	-62.710	-64.130	2.350	12.300	-54.180	-13
4182	-64.740	-64.279	2.700	12.600	-54.379	-13
5018.4	-61.030	-57.425	2.830	12.700	-47.555	-13
5854.8	-65.530	-60.095	3.200	13.000	-50.295	-13

### Vertical Emissions

1672.8	-58.540	-62.700	1.630	9.800	-54.530	-13
2509.2	-57.000	-57.723	2.100	10.600	-49.223	-13
3345.6	-63.540	-65.419	2.350	12.300	-55.469	-13
4182	-65.050	-64.314	2.700	12.600	-54.414	-13
5018.4	-54.040	-50.922	2.830	12.700	-41.052	-13
5854.8	-65.620	-60.661	3.200	13.000	-50.861	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	Notebook		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/03/28	Test Site	OATS 3
Test Condition	Channel 4183 (WCDMA BAND V HSUPA)	Test Range	30MHz~10GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

### Horizontal Emissions

1672.8	-62.280	-66.972	1.630	9.800	-58.802	-13
2509.2	-61.260	-61.427	2.100	10.600	-52.927	-13
3345.6	-63.770	-65.190	2.350	12.300	-55.240	-13
4182	-65.140	-64.679	2.700	12.600	-54.779	-13
5018.4	-61.640	-57.909	2.830	12.700	-48.039	-13
5854.8	-65.190	-59.755	3.200	13.000	-49.955	-13

### Vertical Emissions

1672.8	-63.190	-67.465	1.630	9.800	-59.295	-13
2509.2	-57.110	-57.833	2.100	10.600	-49.333	-13
3345.6	-62.960	-64.890	2.350	12.300	-54.940	-13
4182	-63.620	-62.884	2.700	12.600	-52.984	-13
5018.4	-53.310	-50.419	2.830	12.700	-40.549	-13
5854.8	-64.880	-59.921	3.200	13.000	-50.121	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 6 GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	Notebook		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/03/28	Test Site	OATS 3
Test Condition	Channel 9400 (WCDMA BAND II )	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

#### Horizontal Emissions

3760	-43.000	-43.530	2.530	12.600	-33.460	-13
5640	-66.100	-61.604	3.050	13.100	-51.554	-13
7520	-67.400	-56.400	3.650	11.500	-48.550	-13
9400	-68.160	-52.133	3.850	12.000	-43.983	-13
11280	-66.990	-51.852	4.580	12.000	-44.432	-13

#### Vertical Emissions

3760	-46.570	-47.382	2.530	12.600	-37.312	-13
5640	-65.370	-61.300	3.050	13.100	-51.250	-13
7520	-66.060	-55.364	3.650	11.500	-47.514	-13
9400	-68.470	-52.468	3.850	12.000	-44.318	-13
11280	-67.880	-53.208	4.580	12.000	-45.788	-13

#### Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	Notebook		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/03/28	Test Site	OATS 3
Test Condition	Channel 9400 (WCDMA BAND II HSDPA)	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

### Horizontal Emissions

3760	-44.640	-45.170	2.530	12.600	-35.100	-13
5640	-66.540	-62.044	3.050	13.100	-51.994	-13
7520	-66.770	-55.770	3.650	11.500	-47.920	-13
9400	-67.830	-51.803	3.850	12.000	-43.653	-13
11280	-66.080	-50.942	4.580	12.000	-43.522	-13

### Vertical Emissions

3760	-47.220	-48.032	2.530	12.600	-37.962	-13
5640	-64.740	-60.670	3.050	13.100	-50.620	-13
7520	-66.810	-56.114	3.650	11.500	-48.264	-13
9400	-67.070	-51.068	3.850	12.000	-42.918	-13
11280	-66.730	-52.058	4.580	12.000	-44.638	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.

Product	Notebook		
Test Mode	Spurious Emission (Radiated)		
Date of Test	2009/03/28	Test Site	OATS 3
Test Condition	Channel 9400 (WCDMA BAND II HSUPA)	Test Range	30MHz~20GHz

Frequency	Reading Level	Signal Generator Level	Cable Loss	Antenna Gain	EIRP Value	Limit
(GHz)	(dBm)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)

### Horizontal Emissions

3760	-43.710	-44.240	2.530	12.600	-34.170	-13
5640	-65.610	-61.114	3.050	13.100	-51.064	-13
7520	-66.180	-55.180	3.650	11.500	-47.330	-13
9400	-68.460	-52.433	3.850	12.000	-44.283	-13
11280	-67.180	-52.042	4.580	12.000	-44.622	-13

### Vertical Emissions

3760	-47.830	-48.642	2.530	12.600	-38.572	-13
5640	-66.240	-62.170	3.050	13.100	-52.120	-13
7520	-67.040	-56.344	3.650	11.500	-48.494	-13
9400	-67.810	-51.808	3.850	12.000	-43.658	-13
11280	-67.890	-53.218	4.580	12.000	-45.798	-13

Note:

1. Receiver setting (Peak Detector) : RBW:3MHz; VBW:3MHz
2. EIRP Value = Signal Generator Level + Antenna Gain - Cable Loss
3. Spurious emissions past 12GHz are not shown, due to the magnitude of spurious emissions attenuated more than 20 dB below the limit.



## 6. Frequency Stability Under Temperature & Voltage Variations

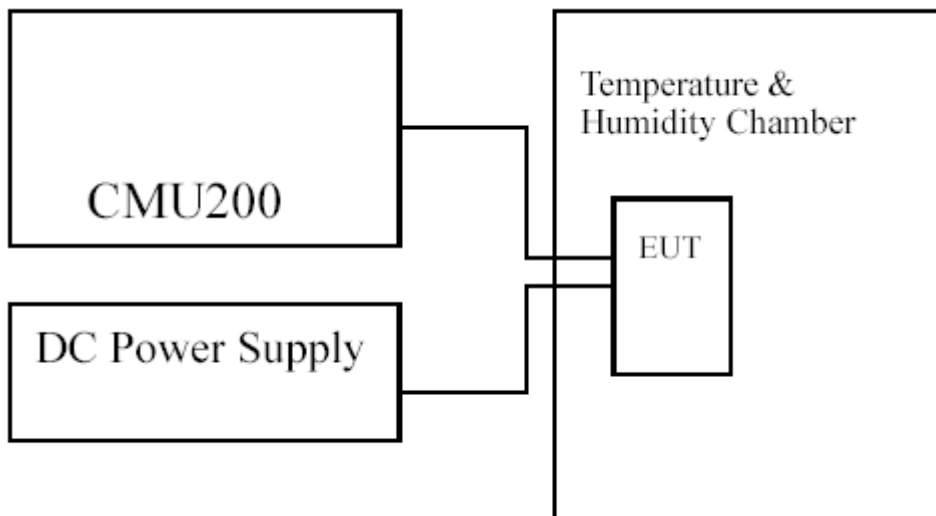
### 6.1. Test Equipment

The following test equipments are used during the frequency stability test:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Universal Radio Communication Tester	R & S	CMU200 / 104846	Apr., 2009
Standard Temperature & Humidity Chamber	WIT	TH-1S-B / 108210	Aug., 2008
DC Power Supply	Topward	6303D / 670302	N/A

Note: All equipments upon which need to be calibrated are with calibration period of 1 year

### 6.2. Test Setup



### 6.3. Limits

Limit	<math>\pm 2.5\text{ppm}</math>
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#### 6.4. Test Procedure

The frequency stability of transmitter is measured by:

- (a) Temperature: The temperature is varied from  $-30^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  in  $10^{\circ}\text{C}$  increment using a standard temperature & Humidity chamber.
- (b) Primary Supply Voltage: The primary supply voltage is varied 85% to 115% of the nominal value for non hand-carried equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating endpoint which shall be specified by the manufacturer.

The EUT was connected via the base station simulator. Universal Radio Communication Tester, (CMU200), was used to measure The Frequency Error. The maximum result of measurements was recorded.

#### 6.5. Test Specification

According to Part 2.1055,22.355,24.235

### 6.6. Test Result of Frequency Stability Under Temperature Variations

Product	Notebook		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/03/28	Test Site	CTR
Test Condition	GSM 850 GPRS / Channel 189	Test Range	-30°C ~+50°C

#### Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	0.836	32	±2.09
-20	0.836	-30	±2.09
-10	0.836	-35	±2.09
0	0.836	-42	±2.09
10	0.836	-41	±2.09
20	0.836	-49	±2.09
30	0.836	-43	±2.09
40	0.836	-30	±2.09
50	0.836	-47	±2.09

#### Voltage Variations

DC Voltage (V)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
138	0.836	-47	±2.09
120	0.836	-49	±2.09
102	0.836	54	±2.09

Product	Notebook		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/03/28	Test Site	CTR
Test Condition	GSM 850 EGPRS / Channel 189	Test Range	-30°C ~+50°C

#### Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	0.836	-29	±2.09
-20	0.836	27	±2.09
-10	0.836	-32	±2.09
0	0.836	-39	±2.09
10	0.836	39	±2.09
20	0.836	-46	±2.09
30	0.836	-37	±2.09
40	0.836	-28	±2.09
50	0.836	-44	±2.09

#### Voltage Variations

DC Voltage (V)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
138	0.836	-44	±2.09
120	0.836	-46	±2.09
102	0.836	-40	±2.09

Product	Notebook		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/03/28	Test Site	CTR
Test Condition	PCS 1900 GPRS / Channel 661	Test Range	-30°C ~+50°C

#### Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	1.88	-51	±4.7
-20	1.88	-82	±4.7
-10	1.88	-66	±4.7
0	1.88	-69	±4.7
10	1.88	-79	±4.7
20	1.88	-68	±4.7
30	1.88	-87	±4.7
40	1.88	-64	±4.7
50	1.88	-99	±4.7

#### Voltage Variations

DC Voltage (V)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
138	1.88	-70	±4.7
120	1.88	-68	±4.7
102	1.88	-62	±4.7

Product	Notebook		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/03/28	Test Site	CTR
Test Condition	PCS 1900 EGPRS / Channel 661	Test Range	-30°C ~+50°C

#### Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	1.88	-56	±4.7
-20	1.88	-77	±4.7
-10	1.88	59	±4.7
0	1.88	-56	±4.7
10	1.88	-64	±4.7
20	1.88	72	±4.7
30	1.88	-90	±4.7
40	1.88	-68	±4.7
50	1.88	-89	±4.7

#### Voltage Variations

DC Voltage (V)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
138	1.88	69	±4.7
120	1.88	72	±4.7
102	1.88	71	±4.7

Product	Notebook		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/03/28	Test Site	CTR
Test Condition	WCDMA BAND V / Channel 4183	Test Range	-30°C ~+50°C

#### Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	0.836	17	±2.09
-20	0.836	19	±2.09
-10	0.836	-19	±2.09
0	0.836	-18	±2.09
10	0.836	21	±2.09
20	0.836	-14	±2.09
30	0.836	-21	±2.09
40	0.836	-22	±2.09
50	0.836	23	±2.09

#### Voltage Variations

DC Voltage (V)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
138	0.836	22	±2.09
120	0.836	-14	±2.09
102	0.836	18	±2.09

Product	Notebook		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/03/28	Test Site	CTR
Test Condition	WCDMA BAND V HSDPA / Channel 4183	Test Range	-30°C ~+50°C

#### Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	0.836	21	±2.09
-20	0.836	-26	±2.09
-10	0.836	-27	±2.09
0	0.836	25	±2.09
10	0.836	29	±2.09
20	0.836	-18	±2.09
30	0.836	-22	±2.09
40	0.836	-37	±2.09
50	0.836	-21	±2.09

#### Voltage Variations

DC Voltage (V)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
138	0.836	21	±2.09
120	0.836	-18	±2.09
102	0.836	-14	±2.09



Product	Notebook		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/03/28	Test Site	CTR
Test Condition	WCDMA BAND V HSUPA / Channel 4183	Test Range	-30°C ~+50°C

#### Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	0.836	-28	±2.09
-20	0.836	23	±2.09
-10	0.836	20	±2.09
0	0.836	22	±2.09
10	0.836	28	±2.09
20	0.836	22	±2.09
30	0.836	19	±2.09
40	0.836	26	±2.09
50	0.836	-36	±2.09

#### Voltage Variations

DC Voltage (V)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
138	0.836	23	±2.09
120	0.836	22	±2.09
102	0.836	-29	±2.09

Product	Notebook		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/03/28	Test Site	CTR
Test Condition	WCDMA BAND II / Channel 9400	Test Range	-30°C ~+50°C

#### Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	1.88	-41	±4.7
-20	1.88	-49	±4.7
-10	1.88	-36	±4.7
0	1.88	-46	±4.7
10	1.88	-33	±4.7
20	1.88	-42	±4.7
30	1.88	-31	±4.7
40	1.88	-35	±4.7
50	1.88	-49	±4.7

#### Voltage Variations

DC Voltage (V)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
138	1.88	-36	±4.7
120	1.88	-42	±4.7
102	1.88	37	±4.7

Product	Notebook		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/03/28	Test Site	CTR
Test Condition	WCDMA BAND II HSDPA / Channel 9400	Test Range	-30°C ~+50°C

#### Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	1.88	24	±4.7
-20	1.88	-32	±4.7
-10	1.88	-26	±4.7
0	1.88	-37	±4.7
10	1.88	43	±4.7
20	1.88	-28	±4.7
30	1.88	33	±4.7
40	1.88	36	±4.7
50	1.88	43	±4.7

#### Voltage Variations

DC Voltage (V)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
138	1.88	-37	±4.7
120	1.88	-28	±4.7
102	1.88	-32	±4.7

Product	Notebook		
Test Mode	Frequency Stability Under Temperature Variations & Voltage Variations		
Date of Test	2009/03/28	Test Site	CTR
Test Condition	WCDMA BAND II HSUPA / Channel 9400	Test Range	-30°C ~+50°C

#### Frequency Stability Under Temperature Variations

Temperature Interval(°C)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
-30	1.88	-48	±4.7
-20	1.88	-36	±4.7
-10	1.88	-49	±4.7
0	1.88	39	±4.7
10	1.88	-55	±4.7
20	1.88	-53	±4.7
30	1.88	-50	±4.7
40	1.88	33	±4.7
50	1.88	45	±4.7

#### Voltage Variations

DC Voltage (V)	Test Frequency (GHz)	Deviation (Hz)	Limit (KHz)
138	1.88	-49	±4.7
120	1.88	-53	±4.7
102	1.88	55	±4.7

## 7. EMI Reduction Method During Compliance Testing

No modification was made during testing.