

Product Name	Slate PC
Model No	S1080XX, R2005XX(X=0-9,A-Z,a-z or blank)
FCC ID.	JCK-S2005

Applicant	GIGA-BYTE TECHNOLOGY CO., LTD
Address	No.6, Bao Chiang Road, Hsin-Tien Dist., New Taipei City
	231,Taiwan

Date of Receipt	Mar. 03, 2011
Issue Date	Apr. 15, 2011
Report No.	113054R-RFUSP42V01
Report Version	V1.0

The test results relate only to the samples tested.

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Testing Laboratory

0914

Test Report Certification

Issue Date: Apr. 15, 2011 Report No.: 113054R-RFUSP42V01



Accredited by NIST (NVLAP) NVLAP Lab Code: 200533-0

Product Name	Slate PC		
Applicant	GIGA-BYTE TECHNOLOGY CO., LTD		
Address	No.6, Bao Chiang Road, Hsin-Tien Dist., New Taipei City 231, Taiwan		
Manufacturer	GIGA-BYTE TECHNOLOGY CO., LTD		
Model No.	S1080XX, R2005XX(X=0-9,A-Z,a-z or blank)		
FCC ID.	JCK-S2005		
EUT Rated Voltage	AC 100-240V, 50-60Hz		
EUT Test Voltage	AC 120V/60Hz		
Trade Name	GIGABYTE		
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2010		
	ANSI C63.4: 2009		
Test Result	Complied		

The test results relate only to the samples tested.

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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Slate PC			
Trade Name	GIGABYTE			
Model No.	S1080XX, R2005XX(X=0-9,A-Z,a-z or blank)			
FCC ID.	JCK-S2005			
Frequency Range	2412-2462MHz for 802.11b/g/n-20BW, 2422-2452MHz for 802.11n-40BW			
Number of Channels	802.11b/g/n-20MHz: 11, n-40MHz: 7			
Data Speed	802.11b: 1-11Mbps, 802.11g: 6-54Mbps, 802.11n: up to 150Mbps			
Type of Modulation	802.11b:DSSS (DBPSK, DQPSK, CCK)			
	802.11g/n:OFDM (BPSK, QPSK, 16QAM, 64QAM)			
Antenna Type	Printed on PCB			
Antenna Gain	Refer to the table "Antenna List"			
Channel Control	Auto			
Power Adapter	MFR: DELTA, M/N: ADP-40PH BB			
	Input: AC 100-240V, 50-60Hz, 1.2A			
	Output: DC 19V, 2.1A			
	Cable Out: Non-shielded, 1.8m, with one ferrite core bonded.			

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	GIGA-BYTE	WLAN-BT	Printed on PCB	1.9dBi

Note: The antenna of EUT is conform to FCC 15.203

802.11b/g/n-20MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	2412 MHz	Channel 02:	2417 MHz	Channel 03:	2422 MHz	Channel 04:	2427 MHz
Channel 05:	2432 MHz	Channel 06:	2437 MHz	Channel 07:	2442 MHz	Channel 08:	2447 MHz
Channel 09:	2452 MHz	Channel 10:	2457 MHz	Channel 11:	2462 MHz		

802.11n-40MHz Center Frequency of Each Channel:

```
Channel
                         Channel
            Frequency
                                   Frequency
                                               Channel
                                                          Frequency
                                                                      Channel
                                                                                Frequency
Channel 01: 2422 MHz Channel 02:
                                  2427 MHz
                                             Channel 03:
                                                        2432 MHz Channel 04:
                                                                               2437 MHz
Channel 05: 2442 MHz Channel 06: 2447 MHz
                                             Channel 07:
                                                        2452 MHz
```

- 1. The EUT is a Slate PC build-in a 2.4GHz Transceiver.
- 2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
- 3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 1Mbps \$802.11g is 6Mbps \$802.11n(20M-BW) is 7.2Mbps and \$802.11n(40M-BW) is 15Mbps)
- 4. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11b/g/n transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices

1.2. Operational Description

The EUT is a Slate PC, This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps and the device of RF carrier is DBPSK, DQPSK and CCK (IEEE 802.11b). The device provided of eight kinds of transmitting speed 6, 9, 12, 18, 24, 36, 48 and 54Mbps the device of RF carrier is BPSK, QPSK, 16QAM and 64QAM (IEEE 802.11g).

The device provided of eight kinds of transmitting speed 7.2,14.4,21.7,28.9,43.3,57.8.65 and 72.2Mbps in 802.11n(20M-BW) mode and 15,30,45,60,90,120,135 and 150Mbps(40M-BW) the device of RF carrier is BPSK, QPSK, 16QAM and 64QAM (IEEE 802.11n), The IEEE 802.11n is Multiple In, Multiple Out" (MIMO) technology and two antennas to support 2(Transmit) * 2(Receive) MIMO technology.

This Slate PC, compliant with IEEE 802.11b and IEEE 802.11g/n, is a high-efficiency Wireless LAN adapter. It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. Operation in 2.4GHz Direst Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM) radio transmission, the Slate PC Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any IEEE 802.11b and IEEE 802.11g/n network.

This device use WLAN and Bluetooth combo module which not transmit simultaneous.

Test Mode:	Mode 1: Transmit (802.11b 1Mbps)
	Mode 2: Transmit (802.11g 6Mbps)
	Mode 3: Transmit (802.11n HT0 7.2Mbps 20M-BW)
	Mode 4: Transmit (802.11n HT0 15Mbps 40M-BW)

NOTE: In n-20 and n-40 mode the power combiner is used, the factor of combiner is 10dB and offset it in test instrument.

1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Pro	duct	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Monitor	Dell	2407WFPb	CN-0FC255-46633-67T-0	DoC	Non-Shielded, 1.8m
				4GS		
2	USB Mouse	DELL	M056U0A	F0Y01YEQ	DoC	N/A
3	Keyboard	DELL	SK-8115	MY-0DJ325-71619-7A2-	DoC	N/A
				0330		
4	Microphone &	Ergotech	ET-E201	N/A	N/A	N/A
	Earphone					

	Signal Cable Type	Signal cable Description
А	VGA Cable	Shielded, 1.8m, with two ferrite cores bonded.
В	USB Mouse Cable	Shielded, 1.8m
С	USB Keyboard Cable	Shielded, 1.8m
D	Microphone & Earphone Cable	Non-Shielded, 1.8m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4.
- (2) Execute ".Realtek.exe" on the EUT.
- (3) Configure the test mode, the test channel, and the data rate to start the continuous transmit
- (4) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from

QuieTek Corporation's Web Site: <u>http://www.quietek.com/tw/ctg/cts/accreditations.htm</u> The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site: <u>http://www.quietek.com/</u>

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> Accreditation on NVLAP NVLAP Lab Code: 200533-0





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FCC Accreditation Number: TW1014



2. Conducted Emission

2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2010	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2010	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2010	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2010	
5	No.1 Shielded Roor	n		N/A	

Note: All instruments are calibrated every one year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit						
Frequency	Limits					
MHz	QP	AVG				
0.15 - 0.50	66-56	56-46				
0.50-5.0	56	46				
5.0 - 30	60	50				

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product	:	Slate PC
Test Item	:	Conducted Emission Test
Power Line	:	Line 1
Test Mode	:	Mode 4: Transmit (802.11n HT0 15Mbps 40M-BW) (2437MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV	dB	dBuV
Line 1					
Quasi-Peak					
0.189	9.790	43.250	53.040	-11.846	64.886
0.209	9.790	36.090	45.880	-18.434	64.314
0.255	9.790	34.550	44.340	-18.660	63.000
0.767	9.770	26.650	36.420	-19.580	56.000
4.470	9.820	29.860	39.680	-16.320	56.000
15.884	10.110	30.210	40.320	-19.680	60.000
Average					
0.189	9.790	31.320	41.110	-13.776	54.886
0.209	9.790	17.110	26.900	-27.414	54.314
0.255	9.790	22.770	32.560	-20.440	53.000
0.767	9.770	22.820	32.590	-13.410	46.000
4.470	9.820	18.710	28.530	-17.470	46.000
15.884	10.110	23.010	33.120	-16.880	50.000

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " " means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

Product	: Slate PC									
Test Item	: Conducted Emission Test									
Power Line	: Line 2									
Test Mode	: Mode 4: Transmit (802.11n HT0 15Mbps 40M-BW) (2437MHz)									
Frequency	Correct	Reading	Measurement	Margin	Limit					
	Factor	Level	Level							
MHz	dB	dBuV	dBuV	dB	dBuV					
Line 2										
Quasi-Peak										
0.181	9.790	42.680	52.470	-12.644	65.114					
0.197	9.790	41.510	51.300	-13.357	64.657					
0.263	9.790	32.170	41.960	-20.811	62.771					
0.767	9.790	26.440	36.230	-19.770	56.000					
4.474	9.830	30.440	40.270	-15.730	56.000					
15.048	10.190	26.780	36.970	-23.030	60.000					
Average										
0.181	9.790	25.300	35.090	-20.024	55.114					
0.197	9.790	31.010	40.800	-13.857	54.657					
0.263	9.790	18.410	28.200	-24.571	52.771					
0.767	9.790	22.360	32.150	-13.850	46.000					
4.474	9.830	18.030	27.860	-18.140	46.000					
15.048	10.190	20.950	31.140	-18.860	50.000					

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. "means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

QuieTer

3. Peak Power Output

3.1. Test Equipment

_	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Х	Power Meter	Anritsu	ML2495A/6K00003357	May, 2010
Х	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2010
Х	8-WAY Power Divider	JFW	50PD-647 / 526770 0916	Apr., 2011

Note:

- 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
- 2. The test instruments marked with "X" are used to measure the final test results.
- 3. The power combiner is used for measure 11n mode.

3.2. Test Setup

Conducted Measurement



3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Procedure

The EUT was tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

3.5. Uncertainty

 \pm 1.27 dB

3.6. Test Result of Peak Power Output

Product	:	Slate PC
Test Item	:	Peak Power Output Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps)

Channel No. Frequency		For d	Average ifferent Da	e Power ata Rate (N	lbps)	Peak Power	Required	Pogult
	(MHz)	1	2	5.5	11	1	Limit	Result
			Measur	ement Lev	vel (dBm)			
01	2412	14.92				17.44	<30dBm	Pass
06	2437	17.2	17.02	16.88	16.54	19.42	<30dBm	Pass
11	2462	15.03				17.44	<30dBm	Pass

:	Slate PC
:	Peak Power Output Data
:	No.3 OATS
:	Mode 2: Transmit (802.11g 6Mbps)
	: : : :

	Fraguanov	Average PowerPeakFor different Data Rate (Mbps)Power								Peak Power	Paguirad	
Channel No	(MHz)	6	9	12	18	24	36	48	54	6	Limit	Result
				Ν	Aeasure	ement I	level (d	lBm)				
01	2412	4.58								15.5	<30dBm	Pass
06	2437	8.52	8.41	8.34	8.2	8.02	7.94	7.78	7.62	19.45	<30dBm	Pass
11	2462	6.04								16.19	<30dBm	Pass

:	Slate PC
:	Peak Power Output Data
:	No.3 OATS
:	Mode 3: Transmit (802.11n HT0 7.2Mbps 20M-BW)

		Average Power Peak						Peak				
	Frequency		For different Data Rate (Mbps) Power						Required			
Channel No	(MHz)	HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	HT7	Limit	Result
	Measurement Level (dBm)											
01	2412	6.14								15.71	<30dBm	Pass
06	2437	9.04	8.88	8.72	8.66	8.37	8.22	8.13	8.07	18.8	<30dBm	Pass
11	2462	5.07								14.81	<30dBm	Pass

Product	:	Slate PC
Test Item	:	Peak Power Output Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit (802.11n HT0 15Mbps 40M-BW)

	Fraquanay	Average PowerPeakFor different Data Rate (Mbps)Power					Peak Power	Paquirad				
Channel No	(MHz)	HT0	HT1	HT2	HT3	HT4	HT5	HT6	HT7	HT7	Limit	Result
				Ν	Measure	ement I	level (d	Bm)				
01	2422	4.91								14.76	<30dBm	Pass
04	2437	7.7	7.54	7.31	7.22	7.04	6.95	6.88	6.62	16.82	<30dBm	Pass
07	2452	4.82								14.71	<30dBm	Pass

4. Radiated Emission

4.1. Test Equipment

The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 3	Х	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2010
	Х	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2010
	Х	Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2010
	Х	Pre-Amplifier	Agilent	8447D/2944A09549	Sep., 2010
	Х	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2010
	Х	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2010
	Х	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2011
	Х	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	Х	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. The test instruments marked with "X" are used to measure the final test results.

4.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits							
Frequency MHz	uV/m@3m	dBuV/m@3m					
30-88	100	40					
88-216	150	43.5					
216-960	200	46					
Above 960	500	54					

Remarks: E field strength $(dBuV/m) = 20 \log E$ field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2009 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement. The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna. The worst radiated emission is measured in the Open Area Test Site on the Final Measurement. The frequency range from 30MHz to 10th harminics is checked.

4.5. Uncertainty

- ± 3.9 dB above 1GHz
- ± 3.8 dB below 1GHz

4.6. Test Result of Radiated Emission

Product	:	Slate PC
Test Item	:	Harmonic Radiated Emission Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.261	38.420	41.681	-32.319	74.000
7236.000	10.650	39.050	49.700	-24.300	74.000
9648.000	13.337	37.420	50.756	-23.244	74.000
Avaraga Datactor:					
Average Detector.					
vertical					
Peak Detector:					
4824.000	6.421	41.400	47.821	-26.179	74.000
7236.000	11.495	41.500	52.995	-21.005	74.000
9648.000	13.807	37.250	51.056	-22.944	74.000

Average Detector:

--

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: Slate PC							
Test Item	: Harmoni	: Harmonic Radiated Emission Data						
Test Site	: No.3 OA	: No.3 OATS						
Test Mode	: Mode 1:	Transmit (802.11	b 1Mbps) (2437 MH	z)				
Frequency	Correct	Reading	Measurement	Margin	Limit			
	Factor	Level	Level					
MHz	dB	dBuV	dBuV/m	dB	dBuV/m			
Horizontal								
Peak Detector:								
4874.000	3.038	39.250	42.287	-31.713	74.000			
7311.000	11.795	39.350	51.144	-22.856	74.000			
9748.000	12.635	37.350	49.985	-24.015	74.000			
Average Detector:								
Vertical								
Peak Detector:								
4874.000	5.812	39.450	45.261	-28.739	74.000			
7311.000	12.630	42.300	54.929	-19.071	74.000			
9748.000	13.126	37.250	50.376	-23.624	74.000			
Average Detector:								
7311.000	12.630	34.910	47.539	-6.461	54.000			

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: Slate PC							
Test Item	: Harmonic Radiated Emission Data							
Test Site	: No.3 OATS							
Test Mode	: Mode 1:	Transmit (802.11	lb 1Mbps) (2462 MH	z)				
Frequency	Correct	Reading	Measurement	Margin	Limit			
	Factor	Level	Level					
MHz	dB	dBuV	dBuV/m	dB	dBuV/m			
Horizontal								
Peak Detector:								
4924.000	2.858	39.050	41.907	-32.093	74.000			
7386.000	12.127	38.020	50.148	-23.852	74.000			
9848.000	12.852	37.040	49.893	-24.107	74.000			
Average Detector:								
Vertical								
Peak Detector:								
4924.000	5.521	37.620	43.140	-30.860	74.000			
7386.000	13.254	37.210	50.464	-23.536	74.000			
9848.000	13.367	37.030	50.397	-23.603	74.000			

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- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: Slate PC							
Test Item	: Harmon	: Harmonic Radiated Emission Data						
Test Site	: No.3 OATS							
Test Mode	: Mode 2:	Transmit (802.11	lg 6Mbps) (2412MHz	z)				
Frequency	Correct	Reading	Measurement	Margin	Limit			
	Factor	Level	Level					
MHz	dB	dBuV	dBuV/m	dB	dBuV/m			
Horizontal								
Peak Detector:								
4824.000	3.261	38.180	41.441	-32.559	74.000			
7236.000	10.650	37.350	48.000	-26.000	74.000			
9648.000	13.337	36.420	49.756	-24.244	74.000			
Average Detector:								
Vertical								
Peak Detector:								
4824.000	6.421	38.050	44.471	-29.529	74.000			
7236.000	11.495	37.610	49.105	-24.895	74.000			
9648.000	13.807	36.120	49.926	-24.074	74.000			

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- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: Slate PC						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OATS						
Test Mode	: Mode 2:	Transmit (802.11	lg 6Mbps) (2437 MH	z)			
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4874.000	3.038	38.000	41.037	-32.963	74.000		
7311.000	11.795	35.600	47.394	-26.606	74.000		
9748.000	12.635	36.750	49.385	-24.615	74.000		
Average Detector:							
Peak Detector:							
4874.000	5.812	37.120	42.931	-31.069	74.000		
7311.000	12.630	36.230	48.859	-25.141	74.000		
9748.000	13.126	36.850	49.976	-24.024	74.000		
9748.000	13.126	36.850	49.976	-24.024	74.000		

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- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: Slate PC						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OATS						
Test Mode	: Mode 2:	Transmit (802.11	g 6Mbps) (2462 MH	z)			
Frequency	Correct	Reading	Measurement	Margin	Limit		
riequency	Factor	Level	Level	Muight			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4824.000	3.261	38.010	41.271	-32.729	74.000		
7386.000	12.127	37.110	49.238	-24.762	74.000		
9848.000	12.852	37.320	50.173	-23.827	74.000		
Average Detector:							
Vertical							
Peak Detector:							
4924.000	5.521	38.230	43.750	-30.250	74.000		
7386.000	13.254	36.110	49.364	-24.636	74.000		
9848.000	13.367	36.760	50.127	-23.873	74.000		

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- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: Slate PC						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OA	ATS					
Test Mode	: Mode 3: Transmit (802.11n HT0 7.2Mbps 20M-BW)(2412MHz)						
E.					T • • •		
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4824.000	3.261	38.250	41.511	-32.489	74.000		
7236.000	10.650	36.580	47.230	-26.770	74.000		
9648.000	13.337	36.470	49.806	-24.194	74.000		
Average Detector:							
Vertical							
Peak Detector:							
4824.000	6.421	37.440	43.861	-30.139	74.000		
7236.000	11.495	36.380	47.875	-26.125	74.000		
9648.000	13.807	36.650	50.456	-23.544	74.000		

Note:

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- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	:	Slate PC
Test Item	:	Harmonic Radiated Emission Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit (802.11n HT0 7.2Mbps 20M-BW) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.038	37.660	40.697	-33.303	74.000
7311.000	11.795	35.580	47.374	-26.626	74.000
9748.000	12.635	36.420	49.055	-24.945	74.000
Average Detector:					
Vertical					
Peak Detector:					
4874.000	5.812	38.390	44.201	-29.799	74.000
7311.000	12.630	35.550	48.179	-25.821	74.000
9748.000	13.126	36.820	49.946	-24.054	74.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	:	Slate PC
Test Item	:	Harmonic Radiated Emission Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit (802.11n HT0 7.2Mbps 20M-BW) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4924.000	2.858	37.670	40.527	-33.473	74.000
7386.000	12.127	35.210	47.338	-26.662	74.000
9848.000	12.852	36.880	49.733	-24.267	74.000
Average Detector:					
Vertical					
Peak Detector:					
4924.000	5.521	37.820	43.340	-30.660	74.000
7386.000	13.254	35.230	48.484	-25.516	74.000
9848.000	13.367	36.780	50.147	-23.853	74.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product	:	Slate PC
Test Item	:	Harmonic Radiated Emission Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit (802.11n HT0 15Mbps 40M-BW)(2422MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4844.000	3.171	37.450	40.621	-33.379	74.000
7266.000	11.162	36.330	47.492	-26.508	74.000
9688.000	12.964	36.800	49.765	-24.235	74.000
Average Detector:					
Vertical					
Peak Detector:					
4844.000	6.178	37.810	43.988	-30.012	74.000
7266.000	11.982	35.930	47.912	-26.088	74.000
9688.000	13.507	36.420	49.928	-24.072	74.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: Slate PC						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OA	ATS					
Test Mode	: Mode 4: Transmit (802.11n HT0 15Mbps 40M-BW) (2437 MHz)						
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4874.000	3.038	37.680	40.717	-33.283	74.000		
7311.000	11.795	35.630	47.424	-26.576	74.000		
9748.000	12.635	36.560	49.195	-24.805	74.000		
Average Detector:							
Vertical							
Peak Detector:							
4874.000	5.812	37.680	43.491	-30.509	74.000		
7311.000	12.630	35.530	48.159	-25.841	74.000		
9748.000	13.126	36.650	49.776	-24.224	74.000		

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: Slate PC							
Test Item	: Harmonic Radiated Emission Data							
Test Site	: No.3 OA	ATS						
Test Mode	: Mode 4:	: Mode 4: Transmit (802.11n HT0 15Mbps 40M-BW)(2452 MHz)						
Frequency	Correct	Reading	Measurement	Margin	Limit			
	Factor	Level	Level					
MHz	dB	dBuV	dBuV/m	dB	dBuV/m			
Horizontal								
Peak Detector:								
4904.000	2.914	38.310	41.225	-32.775	74.000			
7356.000	11.995	35.450	47.444	-26.556	74.000			
9808.000	12.475	36.940	49.415	-24.585	74.000			
Average Detector:								
Vertical								
Peak Detector:								
4904.000	5.530	38.120	43.651	-30.349	74.000			
7356.000	13.005	35.520	48.524	-25.476	74.000			
9808.000	12.901	36.780	49.681	-24.319	74.000			

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Test Item Test Site Test Mode	: Slate Po : Genera : No.3 O : Mode 1	C l Radiated Emissio ATS : Transmit (802.11	n Data b 1Mbps)(2437 MHz	<u>z)</u>	
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
99.840	-7.471	48.173	40.702	-2.798	43.500
348.160	-2.268	36.684	34.416	-11.584	46.000
400.540	-2.276	37.947	35.671	-10.329	46.000
497.540	-0.273	34.611	34.338	-11.662	46.000
623.640	1.959	32.624	34.583	-11.417	46.000
697.360	3.171	36.437	39.608	-6.392	46.000
Vertical					
35.820	-2.159	39.222	37.063	-2.937	40.000
99.840	-0.021	42.434	42.413	-1.087	43.500
348.160	-3.458	37.115	33.657	-12.343	46.000
398.600	-4.678	35.671	30.993	-15.007	46.000
497.540	-1.393	36.259	34.866	-11.134	46.000
697.360	1.311	33.791	35.102	-10.898	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: Slate PC					
Test Item	: General Radiated Emission Data					
Test Site	: No.3 OATS					
Test Mode	: Mode 2	: Transmit (802.11	g 6Mbps)(2437 MHz	z)		
			8	-)		
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Horizontal						
99.840	-7.471	48.215	40.744	-2.756	43.500	
348.160	-2.268	43.512	41.244	-4.756	46.000	
398.600	-2.268	33.840	31.572	-14.428	46.000	
497.540	-0.273	30.899	30.626	-15.374	46.000	
648.860	2.038	35.988	38.026	-7.974	46.000	
697.360	3.171	39.960	43.131	-2.869	46.000	
Vertical						
99.840	-0.021	40.465	40.444	-3.056	43.500	
317.120	-6.895	37.271	30.376	-15.624	46.000	
348.160	-3.458	36.828	33.370	-12.630	46.000	
398.600	-4.678	36.629	31.951	-14.049	46.000	
497.540	-1.393	36.756	35.363	-10.637	46.000	
697.360	1.311	34.592	35.903	-10.097	46.000	

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: Slate PC						
Test Item	: General Radiated Emission Data						
Test Site	: No.3 OATS						
Test Mode	: Mode 3	: Transmit (802.11	n HT0 7.2Mbps 20M	I-BW)(2437 MHz	z)		
			-				
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
99.840	-7.471	48.231	40.760	-2.740	43.500		
138.640	-10.435	44.509	34.074	-9.426	43.500		
165.800	-11.079	40.555	29.476	-14.024	43.500		
348.160	-2.268	35.364	33.096	-12.904	46.000		
648.860	2.038	32.752	34.790	-11.210	46.000		
697.360	3.171	36.441	39.612	-6.388	46.000		
Vertical							
47.460	-5.701	42.729	37.029	-2.971	40.000		
99.840	-0.021	40.740	40.719	-2.781	43.500		
136.700	-5.143	44.521	39.378	-4.122	43.500		
348.160	-3.458	31.348	27.890	-18.110	46.000		
497.540	-1.393	32.503	31.110	-14.890	46.000		

697.360

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.

37.903

-8.097

46.000

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.

36.592

4. Measurement Level = Reading Level + Correct Factor.

1.311

- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Test Item Test Site Test Mode	: Slate PC : General : No.3 O. : Mode 4	C Radiated Emissio ATS : Transmit (802.11	n Data n HT0 15Mbps 40M	-BW)(2437 MHz)
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
99.840	-7.471	48.184	40.713	-2.787	43.500
348.160	-2.268	38.197	35.929	-10.071	46.000
472.320	0.637	35.140	35.777	-10.223	46.000
579.020	3.414	35.987	39.401	-6.599	46.000
604.240	4.770	34.296	39.066	-6.934	46.000
697.360	3.171	40.059	43.230	-2.770	46.000
Vertical					
99.840	-0.021	40.798	40.777	-2.723	43.500
319.060	-6.897	39.201	32.304	-13.696	46.000
348.160	-3.458	35.941	32.483	-13.517	46.000
398.600	-4.678	35.582	30.904	-15.096	46.000
497.540	-1.393	34.925	33.532	-12.468	46.000
697.360	1.311	34.658	35.969	-10.031	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

5. **RF** antenna conducted test

5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2010
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2010
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2011
Х	8-WAY Power Divider	JFW	50PD-647 / 526770 0916	Apr., 2011

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. The test instruments marked with "X" are used to measure the final test results.

3. The power combiner is used for measure 11n mode.

5.2. Test Setup

RF antenna Conducted Measurement:



5.3. Limits

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, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.5. Uncertainty

The measurement uncertainty Conducted is defined as ± 1.27 dB

5.6. Test Result of RF antenna conducted test

Product	:	Slate PC
Test Item	:	RF antenna conducted test
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps)

Channel 01 (2412MHz) 30-25GHz

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-60.0	- 10				1		and the states	الأذر رحاريت معما	A CONTRACT		
	- <i>r</i>	and and	بقيليقل يطقق فاست	المتأثر الإيدريا بتنا	ALL DE LAND		1.000	L. A. Barner	T		
-70.0			And the second second								Freq Offset
											0 Hz
-80.0		_									
Star	t 1.00	GHz						1210	Stop 2	5.00 GHz	
#Res	s BW '	00 kHz		#VBW	1.0 MHz			Sweep	2.22 s (1	0001 pts)	
MSG								STATUS	6		

🗊 Agi	ilent Spect	rum Analyzer	- Swept SA		- 40	48	- 13				
IXI Star	t Erog	50 Ω		A	C SE	NSE:INT	Ανα Τισε	ALIGNAUTO	04:34:17 F	M Apr 22, 2011	Frequency
Star	ггеч	50.0000	Input: RF PI	NO: Fast 😱 Gain:Low	Trig: Free Atten: 20	e Run dB	Avg Hold:	>100/100	TYI		
10 di	B/div	Ref 10.00	dBm					Mki	1 279.9 -55.4	69 MHz 61 dBm	Auto Tune
Log 0.00					-						Center Freq 515.000000 MHz
-10.0											
-20.0				<u>.</u>						-17.89 dBm	Start Freq 30.000000 MHz
-30.0											Stop Freq 1.000000000 GHz
-40.0			↓ 1-								CF Step 97.000000 MHz
-60.0											<u>Auto</u> Man
-70.0	h din da tana di Anna ara ang	na judi kuraksi kiris mga kasara				ita hindu animitati Alifani alifani animi			attuspadų bergatetai 10 juliu – spinaliniju mi	rent bern a desi a ti. Penjara sere pripan	Freq Offset 0 Hz
-80.0											
Star #Re	t 30.0 s BW 1	MHz 00 kHz		#VBW	1.0 MHz			Sweep 9	Stop 1.0 0.0 ms (1	0000 GHz 0001 pts)	
MSG								STATUS	3		



Channel 06	(2437MHz)	30-25GHz
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💴 Agilent Sp	oectrum Analyzer -	Swept SA								
Start Fre	50 Ω eq 1.000000 In	0000 GHz 1put: RF P1	/ ! 10: Fast 😱	Trig: Free	Run	Avg Type Avg Hold:	ALIGN AUTO : Log-Pwr : 12/100	04:35:36 F TRAC TYP	M Apr 22, 2011 E 1 2 3 4 5 6 E MWWWWW	Frequency
10 dB/div	Ref 10.00	dBm	Gain:Low	Atten: 20	dВ		Mk	r1 2.437 4.7	76 GHz 54 dBm	Auto Tune
	● 1		7							Center Freq 13.000000000 GHz
-10.0									-15.25 dBm	Start Freq 1.000000000 GHz
-30.0										Stop Freq 25.000000000 GHz
-50.0									1 and	CF Step 2.400000000 GHz Auto Man
-60.0	A.		~~^\~		المجاور الغوي		ililatere _v ida			Freq Offset
-80.0	0.047							Stop 2	5 00 CH2	
#Res BW	100 kHz		#VBW	1.0 MHz			Sweep	2.22 s (1	0001 pts)	
MSG							STATUS			
MSG	nectrum Analyzer -	Swont SA					STATUS			
MSG Agilent Sp XI Start Fre	pectrum Analyzer - 50 Ω eq 30.00000 In	Swept SA	10: Fast 😱	AC SE	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO 2: Log-Pwr > 100/100	04:35:59 P TRAC TYP	M Apr 22, 2011 E 1 2 3 4 5 6 E M WWWWWW	Frequency
MSG Agilent Sp (X) Start Fre 10 dB/div	ectrum Analyzer - 50 Ω eq 30.00000 In Ref 10.00	Swept SA 00 MHz Iput: RF Ph IFC dBm	10: Fast ⊂⊨ Sain:Low	AC SE Trig: Free Atten: 20	NSE:INT ≥ Run dB	Avg Type Avg Hold:	ALIGN AUTO 2: Log-Pwr >100/100 Mkr	04:35:59 F TRAC TYI DO 1 279.9 -58.1	MApr 22, 2011 = 1 2 3 4 5 6 = MWWMMM = P NNNN 69 MHz 94 dBm	Frequency Auto Tune
MSG MSG MSG MSG MSG MSG MSG MSG	ectrum Analyzer - 50 Q eq 30.00000 In Ref 10.00	Swept SA DO MHZ IPUT: RF PN IFC dBm	40: Fast G	AC SE Trig: Free Atten: 20	NSE:INT ≩ Run dB	Avg Type Avg Hold:	ALIGN AUTO 21 Log-Pwr >100/100 Mkr	04:35:59 F TRAC TY 00 -58.11	MApr 22, 2011 E 1 2 3 4 5 6 E MWWWWW TP NNNN 69 MHz 94 dBm	Frequency Auto Tune Center Freq 515.00000 MHz
MSG 20 Agilent Sp 20 5 Cart Fre 10 dB/div 0.00 -10.0 -20.0	Ref 10.00	Swept SA DO MHz IPPut: RF PN IFC dBm	10: Fast (particular for a second sec	AC SE	NSE:INT Run dB	Avg Type Avg Hold:	alignauto :: Log-Pwr >100/100 Mkr	04:35:59 F	MApr 22, 2011 E [1 2 3 4 5 6 E [M-WHWWW F]P NNNN 69 MHz 94 dBm -15 25 dBm	Frequency Auto Tune Center Freq 515.00000 MHz Start Freq 30.00000 MHz
MSG 201 Agilent Sp 201 Start Fre 10 dB/div Log 0.00 -10.0 -20.0 -30.0	Ref 10.00	Swept SA	10: Fast C	AC SE	NSE:INT Run dB	Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr >100/100 Mkr	04:35:59 F	MApr 22, 2011 IE [1 2 3 4 5 6 RE[MUMMAN ETP NNNNN 69 MHz 94 dBm -1525 dBm	Frequency Auto Tune Center Freq 515.00000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz
MSG PD: Agilent Sp 24 Start Fre 0.00 -10.0 -20.0 -30.0 -40.0 -50.0	Ref 10.00	Swept SA	10: Fast C	AC SE	NSE:INT	Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr >100/100 Mkr	04:35:59 F	MApr 22, 2011 IE [1 2 3 4 5 6 EM MANANANA EM MANANANANANANANANANANANANANANANANANANA	Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz L00000000 GHz CF Step 97.000000 MHz
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Agilent Sp	pectrum Analyze	г - эмерт эл		4 m	and and and		0100111		
art Fre	eq 1.0000	00000 GH2	Z NO: Fast 🖵	Trig: Free F	Run A	vg Type: Log-Pwr vg Hold: 13/100	04:37:141 TRA(TY D	CE 1 2 3 4 5 6 PE MWWWWW ET P N N N N N	Frequency
dB/div	Ref 10.0	0 dBm	Gain:Luw	Atten: 20 u		MI	(r1 2.45) 2.8	9 2 GHz 46 dBm	Auto Tui
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art 1.0 Res BW	0 GHz V 100 kHz	*	#VBW	(1.0 MHz		Sweep statu	Stop 2 2.22 s (1 s	5.00 GHZ 0001 pts)	
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art 1.0 Res BW Agilent Sp art Fre	0 GHz V 100 kHz Dectrum Analyze 50 Ω eq 30.000	r - Swept SA 000 MHz Input: RF P	#VBW	AC SENS	e:int A Run A: IB	Sweep statu ALIGNAUTO vyg Type: Log-Pwr vg[Hold:>100/100	Stop 2 2.22 s (1 s 04:37:361 TRA4 TY D	20001 pts)	Frequency
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art 1.0 Res BW Agilent Sp art Fre	0 GHz	r - Swept SA 000 MHz Input: RF P IFI 0 dBm	#VBW	AC SENS Trig: Free P Atten: 20 d	E:INT Run A B	Sweep statu ALIGNAUTO wg Type: Log-Pwr vg Hold>100/100 Mk	2.22 s (1 2.22 s (1 s 04:37:361 TRAI TY D r1 359.9 -59.0	23.00 GHz 0001 pts) 24 GHZ 27 GHZ	Frequency Auto Tu Center Fr
art 1.0 Res BW Agilent Sp art Fre	0 GHz	r - Swept SA 000 MHz Input: RF P IF1 0 dBm	#VBW	AC SENS Trig: Free F Atten: 20 d	e:int Aun A B	Sweep statu ALIGNAUTO wg Type: Log-Pwr vg Hold>100/100 Mk	2.22 s (1 2.22 s (1 s 04:37:361 TRA TY TY TY TA TY TY TY -59.0	9.00 GHz 0001 pts) MApr 22, 2011 12 3 4 5 6 PMAWWWW 12 3 4 5 6 PMAWWWWWW 94 MHz 47 dBm	Frequency Auto Tu Center Fr 515.00000 N
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Agilent Sp art Fre	0 GHz 100 kHz 20 Ω eq 30.000 Ref 10.0	r - Swept SA 000 MHz Input: RF P IFI 0 dBm	#VBW	AC SENS Trig: Free F Atten: 20 d	E:INT Run A B	Sweep statu ALIGNAUTO wg Type: Log-Pwr vg Hold>100/100 Mk	2.22 s (1 2.22 s (1 s 04:37:361 TRAI TRAI TRAI TRAI	23.00 GHz 0001 pts) MApr 22,2011 25 12 3 4 5 6 P N N N N 94 MHz 47 dBm -17.54 dBm	Frequency Auto Tu Center Fr 515.00000 M Start Fr 30.00000 M
Agilent Sp Agilent Sp art Fre 00 00 00 00 00 00 00 00 00 00 00 00 00	0 GHz	r - Swept SA 000 MHz Input: RF P IF1 0 dBm	#VBW	AC SENS Trig: Free F Atten: 20 d	SE:INT A	Sweep statu ALIGNAUTO wg Type: Log-Pwr vg Hold>100/100 Mk	2.22 s (1 2.22 s (1 s 04:37:361 TRAI TV TV TV TV TV TV TV TV TV TV TV TV TV	-17.54 dBm	Frequency Auto Tu Center Fr 515.000000 M Start Fr 30.000000 M Stop Fr 1.000000000 G
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dB/div g g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 GHz 100 kHz 100 kHz 50 Ω eq 30.000 Ref 10.0	r - Swept SA 000 MHz Input: RF P IFI 0 dBm	#VBW	AC SENS Trig: Free P Atten: 20 d	E:INT	Sweep statu ALIGNAUTO vg Type: Log-Pwr vg IHold:>100/100 Mk	2.22 s (1 2.22 s (1 s 04:37:361 TRAI TRAI TRAI TRAI TRAI	23.00 GHz 0001 pts) MApr 22,2011 E [1 2 3 4 5 6 M MADR 22,2011 E [1 2 3 4 5 6 M M M M M M M M M M M M M M M M M M M	Frequency Auto Tu Center Fr 515.000000 M Start Fr 30.000000 M Stop Fr 1.000000000 M Quito
Apilent Sp Apilent Sp art Fre 00 00 00 00 00 00 00 00 00 00 00 00 00	0 GHz 100 kHz ectrum Analyze 50 Ω eq 30.000 Ref 10.0	r - Swept SA OOO MHz Input: RF P IFI O dBm	#VBW	AC SENS Trig: Free F Atten: 20 d	SE:INT	Sweep statu vg Type: Log-Pwr vg Hold>100/100 Mk	2.22 s (1 2.22 s (1 s 04:37:361 TRAI TRAI TRAI	23.00 GHz 0001 pts) MApr 22, 2011 ET 1 2 3 4 5 6 P N N N N 94 MHz 47 dBm -17.54 dBm	Frequency Auto Tu Center Fit 515.000000 M Start Fit 30.000000 M Stop Fit 1.000000000 M Quito Tu Frequency Auto Tu 515.000000 M Stop Fit 1.000000000 M Freq Offs 0
art 1.0 les BW legitent Sp art Fre g g 0 0 0 0 0 0 0 0 0 0 0 0 0	0 GHz 100 kHz 9 ctrum Analyze 50 Ω eq 30.000 Ref 10.0	r - Swept SA 000 MHz Input: RF P IF 0 dBm	#VBW	AC SENS Trig: Free F Atten: 20 d	SE:INT	Sweep	2.22 s (1 2.22 s (1 s 04:37:361 TRAI TRAI TRAI TRAI	23.00 GHz 0001 pts) PM Apr 22, 2011 ET 1 2 3 4 5 6 PM NNNN PM MHz 47 dBm -17.54 dBm -17.54 dBm	Frequency Auto Tu Center Fr 515.000000 M Start Fr 30.000000 M Stop Fr 1.00000000 G CF St 97.00000 M Auto N Freq Offa
Agilent Sp art Fre art Fre art Fre 00 00 00 00 00 00 00 00 00 0	0 GHz 100 kHz 20 2 eq 30.000 Ref 10.0 0 MHz	r - Swept SA 000 MHz Input: RF P IFI 0 dBm	#VBW	AC SENS Trig: Free F Atten: 20 d	EINT	Sweep	Stop 2 2.22 s (1 s 04:37:361 TRAI TRAI TRAI	23.00 GHz 0001 pts) 24.001 pts) 25.12 3 4 5 6 27.22 2011 27.22 2011 27.23 4 5 6 27.23 4 5	Center Fr 515.000000 M Start Fr 30.000000 M Stop Fr 1.000000000 M Freq Offs 97.000000 M Freq Offs 0

Channel 11 (2462MHz) 30-25GHz

Product	:	Slate PC [u1]
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps)

Channel 01 (2412MHz) 30-25GHz

🛛 Agilent Sp	ectrum Analyzer	- Swept SA								
d Stort Ero	50 Ω		-	AC SE	NSE:INT		ALIGN AUTO	04:40:06 F	M Apr 22, 2011	Frequency
start Fre	q 1.0000	Input: RF P	Z NO: Fast 🕞 Gain:Low	Trig: Free Atten: 20	e Run I dB	Avg Hold:	15/100	TYP	E MWWWWW P NNNNN	
0 dB/div	Ref 10.00	dBm					Mk	r1 2.416 -8.14	60 GHz 48 dBm	Auto Tune
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0.00										13 00000000 CH
	1									13.0000000 GH
10.0		_				-				
										Start Free
20.0										1.00000000 GH
0.0									-28.15 dBm	
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tart 1.00	GHz		#\/D\A				Swoon	Stop 2	5.00 GHz	
Res DW	100 KHZ		#VDV	1.0 MHZ			Sweep	2.22 5 (1	0001 pts)	
6							STATUS			
Agilent Sp	ectrum Analyzer	- Swept SA				Ť		04:40:24 0	MApr 22, 2011	
art Fre	q 30.000	000 MHz			B	Avg Type	: Log-Pwr	TRAC	E123456	Frequency
		Input: RF P	NO: Fast 🕞 Gain:Low	Atten: 20	dB	Avginola.	>100/100	DE	PNNNNN	
) dB/div	Ref 10.00	dBm					Mkr	1 359.9 -60.24	94 MHz 43 dBm	Auto Tun
°g										0
.00										515 000000 MH
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tart 30.0) MHz 100 kHz		#\/B\A	(10 MH=			Sween 0	Stop 1.0	0000 GHz	
	100 102		#VDV	. 1.0 191112			encep a	iiis (1	000 i proj	
SG							SIMUS			



🛛 Agilent Sp	ectrum Analyzer	- swept sa								
a Start Fre	eq 1.00000	10000 GHz	10: Fast 🖵	Trig: Free	Run	Avg Type Avg Hold:	ALIGNAUTO : Log-Pwr 7/100	04:41:25 F TRAC TYP	M Apr 22, 2011 E 1 2 3 4 5 6 E MWWWWWW T P N N N N N	Frequency
0 dB/div	Ref 10.00	dBm	ain:Low	Atten: 20			Mk	r1 2.442 -7.43	2 4 GHz 30 dBm	Auto Tun
- ^{og}										Center Fre
0.00	♦ ¹									13.000000000 GH
10.0										Start Fre
30.0									-27.43 dBm	
40.0										Stop Fre 25.000000000 GH
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70.0			~~~		بالجرياطيع أطليم	~~~~				Freq Offse
80.0										
								Stop 2	5 00 CH2	
start 1.0	0 GHz						120	Stop 2	5.00 GHZ	
Start 1.0 Res BW	0 GHz / 100 kHz		#VBW	1.0 MHz			Sweep STATUS	2.22 s (1	0001 pts)	
Start 1.0 Res BW	0 GHz / 100 kHz pectrum Analyzer	- Swept SA	#VBW	1.0 MHz			Sweep Status	2.22 s (1	0001 pts)	
Start 1.0 Res BW sg Agilent Sp Start Fro	0 GHz 100 kHz <u>so α</u> eq 30.0000	- Swept SA	#VBW	1.0 MHz	SE:INT	Avg Type	Sweep status ALIGN AUTO : Log-Pwr	04:41:59 P	MApr 22, 2011	Frequency
Start 1.0 Res BW sg Agilent Sp Start Fre	0 GHz 100 kHz 50 Ω eq 30.0000	- Swept SA 00 MHz nput: RF PN IFC	#VBW	Trig: Free Atten: 20 of	SE:INT Run dB	Avg Type Avg Hold:	Sweep status ALIGN AUTO : Log-Pwr >100/100 Mkr	04:41:59 F TRAC TYI D 1 279.9	MApr 22, 2011 1 2 3 4 5 6 MMMMMMM TP NNNN 69 MHz	Frequency Auto Tur
itart 1.0 Res BW G Agilent Sp itart Fre	0 GHz	- Swept SA 100 MHz nput: RF Pt IFC dBm	#VBW	AC SEN Trig: Free Atten: 20 of	SE:INT Run dB	Avg Type Avg Hold:	Sweep status status : Log-Pwr >100/100 Mkr	2.22 s (1 04:41:59 F TRAC TY1 D 1 279.9 -58.65	MApr 22,2011 ± 1 2 3 4 5 6 mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	Frequency Auto Tur
Start 1.0 Res BW sg Agilent Sp itart Fre	0 GHz / 100 kHz bectrum Analyzer 50 Q eq 30.0000 Ref 10.00	- Swept SA 00 MHz nput: RF PP IFC dBm	#VBW	AC SEN Trig: Free Atten: 20 of	se:INT Run dB	Avg Type Avg Hold:	Sweep status ALIGNAUTO : Log-Pwr >100/100 Mkr	04:41:59 04:41:59 Trac Try D 1 279.9 -58.6	MApr 22, 2011 12 11 23 4 5 6 MMAPr 22, 2011 12 11 23 4 5 6 MMAPR 22, 2011 12 11 23 4 5 6 MMAPR 22, 2011 12 11 24 5 6 12 12 3 4 5 6 12 12 12 12 12 12 12 12 12 12 12 12 12 1	Frequency Auto Tur Center Fre 515.00000 MH
Start 1.0 Res BW sc Agilent Sp Start Fro 0 dB/div 0.00	0 GHz 100 kHz 50 Ω eq 30.0000 Ref 10.00	- Swept SA 00 MHz nput: RF PP IFC dBm	#VBW	AC SEN Trig: Free Atten: 20 o	se:INT Run dB	Avg Type Avg Hold:	Sweep status align auto : Log-Pwr >100/100 Mkr	04:41:59F 1 279.9 -58.61	MApr 22, 2011 12 11 23 4 5 6 MADR 22, 2011 12 11 23 4 5 6 MADR 22, 2011 12 11 23 4 5 6 MADR 22, 2011 12 11 24 5 6 13 4 5 6 14 4 12 14 5 14 4 14 14 14 14 14 14 14 14 14 14 14 14	Frequency Auto Tur Center Fre 515.00000 MH
Start 1.0 Res BM SG Agilent S; Start From 0 dB/div 0 0 20.0	0 GHz / 100 kHz pectrum Analyzer 50 Ω eq 30.00000 Ref 10.00	- Swept SA 100 MHz nput: RF PP IFC	#VBW	AC SEN Trig: Free Atten: 20 o	se:INT Run dB	Avg Type Avg Hold:	Sweep status aLIGN AUTO : Log-Pwr >100/100 Mkr	04:41:59 F TRAC TRAC TRAC TRAC	MApr 22, 2011 E 11 23 4 5 6 MMAPr 22, 2011 E 11 2 4 5 6 MMAPR 24 6	Frequency Auto Turn Center Fre 515.000000 MH Start Fre 30.000000 MH
Start 1.0 #Res BW sc Agilent S; Start Fre 0.00 10.0 20.0 30.0	0 GHz	- Swept SA 100 MHz nput: RF PP IFC dBm	#VBW	Trig: Free Atten: 20 of	SE:INT Run dB	Avg Type Avg Hold:	Sweep status align auto : Log-Pwr -100/100 Mkr	1 279.9 -58.6	MApr 22, 2011 E 11 23 4 5 6 MMADR 20 MMADR 20 M	Frequency Auto Turn Center Fre 515.00000 MH Start Fre 30.000000 MH
Start 1.0 #Res BW sc #Agilent S; #Start Free 0 dB/div ************************************	0 GHz	- Swept SA 100 MHz nput: RF Ph IFC dBm	#VBW	Trig: Free Atten: 20 of	SE:INT Run dB	Avg Type Avg Hold:	Sweep status aLIGN AUTO : Log-Pwr >100/100 Mkr	1 279.9 -58.6	-27.43 dBm	Center Fre 515.000000 MH Start Fre 30.000000 MH Stop Fre 1.000000000 GH
Start 1.0 #Res BW ssg Agitent S; Start Free Start Free 0 dB/div 20.0 30.0 40.0 50.0	0 GHz	- Swept SA 100 MHz nput: RF PP IFC dBm	#VBW	AC SEN Trig: Free Atten: 20 o	SE:INT	Avg Type Avg Hold:	Sweep status aLIGN AUTO : Log-Pwr >100/100 Mkr	04:41:59F 1 279.9 -58.61	MApr 22, 2011 E 1 2 3 4 5 6 MWWWWW E P N N N N 69 MHz 88 dBm -27 43 dBm	Frequency Auto Tur Center Fre 515.000000 MH Start Fre 30.0000000 GH 1.000000000 GH 97.000000 MH Auto M#
Start 1.0 #Res BW ssg Agilent S; #Start Free 0 dB/div *9 0.00 10.0 20.0 40.0 50.0 60.0 70.0	0 GHz	- Swept SA 100 MHz nput: RF PN IFC dBm 1 1 1 1 1 1 1	#VBW	Trig: Free Atten: 20 of	SE:INT Run dB	Avg Type Avg Hold:	Sweep status aLIGNAUTO : Log-Pwr >100/100 Mkr	2.22 s (1	-27 43 dBm	Center Fre 515.000000 MH Start Fre 30.000000 GH 1.00000000 GH 97.000000 MH Auto Turn Auto Turn Start Fre 30.00000 MH Example Stop Fre 1.00000000 GH Freq Offse
Start 1.0 #Res BW SG Agilent S; Start Free 0 dB/div 0 g Start Free 0.00 9 g 10.0 9 g 10.0 9 g 10.0 9 g 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1	0 GHz	- Swept SA	#VBW	Trig: Free Atten: 20 of		Avg Type Avg Hold:	Sweep status ALIGNAUTO : Log-Pwr >100/100 Mkr	1 279.9 -58.6	Apr 22, 2011 E 12 3 4 5 6 E M M Apr 22, 2011 E 12 3 4 5 6 E M M Apr 22, 2011 E 12 3 4 5 6 E M Apr 22, 2011 E 12 3 4 5 6 E M Apr 22, 2011 E 12 3 4 5 6 E E Apr 22, 2011 E E E E E E E E E E E E E E E E E E E	Center Fre 515.000000 MH Start Fre 30.000000 GH 1.00000000 GH 0 F Step Fre 97.000000 MH Auto Tur Preq Offse 0 H
Start 1.0 #Res BW ssg Agilent S; Start Free 0 dB/div °9 0.00 10.0 20.0 30.0 40.0 50.0 60.0 70.0 10.0	0 GHz 100 kHz 50 0 eq 30.0000 Ref 10.00 0 Hbz	- Swept SA	#VBW	AC SEN Trig: Free Atten: 20 of	SEINT	Avg Type Avg Hold:	Sweep status status i Log-Pwr >100/100 Mkr	2.22 s (1	-27.43 dBm	Frequency Auto Tun Center Fre 515.00000 MH Start Fre 30.000000 MH Stop Fre 1.000000000 GH QF Ste 97.000000 MH Auto Ma Freq Offse 0 H
33 Agilent 5; Agilent 5; Start From 5; Start From 5; Start From 5; 0 dB/div 0 0	0 GHz / 100 kHz ectrum Analyzer 50 a eq 30.0000 Ref 10.00 	- Swept SA	#VBW	1.0 MHz	SEINT	Avg Type Avg]Hold:	Sweep status aLIGN AUTO : Log-Pwr >100/100 Mkr 	2.22 s (1 04:41:59 Tradi 1 279.9 -58.60	MApr 22, 2011 E [12 3 4 5 6 MMApr 22, 2011 E [12 4	Frequency Auto Tun Center Fre 515.000000 MH Start Fre 30.000000 GH Stop Fre 1.000000000 GH CF Stej 97.00000 MH Auto Ma Freq Offse 0 H

Channel 06 (2437MHz) 30-25GHz



DAgilent Sp	ectrum Analyze	r - Swept SA								
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			Guilleon				Mk	r1 2.45	9 2 GHz	Auto Tune
10 dB/div	Ref 10.0	0 dBm	.03					-9.7	40 dBm	
Lug										Center Fred
0.00		-								13.00000000 GHz
-10.0	∮ ¹									
10.0										Start Fred
-20.0			8							1.00000000 GHz
-30.0									-29.74 dBm	
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Start 1.0 #Res BM	0 GHz / 100 kHz		#VBV	V 1.0 MHz			Sween	Stop 2	5.00 GHz 0001 pts)	
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							STATUS			
							STATUS			
D Agilent Sp	ectrum Analyze 50 Ω	r - Swept SA		AC SE	NSE:INT		STATUS ALIGN AUTO	04:43:10 F	MApr 22, 2011	
Agilent Sp XI Start Fre	ectrum Analyze 50 Ω eq 30.000	r - Swept SA	NO: Fast	AC SE	NSE:INT	Avg Type Avg Hold:	ALIGNAUTO 2: Log-Pwr >100/100	04:43:10 F TRAC TYI	M Apr 22, 2011 ≅ 1 2 3 4 5 6 ™ ₩₩₩₩₩₩	Frequency
Magilent Sp W Start Fre	ectrum Analyze 50 Ω eq 30.000	r - Swept SA 000 MHz Input: RF P IFI	NO: Fast Gain:Low	AC SE	NSE:INT ≥ Run dB	Avg Type Avg Hold:	ALIGNAUTO e: Log-Pwr >100/100	04:43:10 P TRAC TYI D	MApr 22, 2011 1 2 3 4 5 6 MMMMMM T P N N N N 20 MH	Frequency Auto Tune
P Agilent Sp XI Start Fre	ectrum Analyze 50 Ω eq 30.000 Ref 10.00	r - Swept SA 000 MHz Input: RF P IFI 0 dBm	NO: Fast G Gain:Low	AC SEI Trig: Free Atten: 20	NSE:INT ≩ Run dB	Avg Type Avg Hold:	alignauto e: Log-Pwr >100/100 Mkr	04:43:10 F TRAC TYI D 1 320.0 -59.5	MApr 22, 2011 ¹² 1 2 3 4 5 6 ¹² MWWWWW TP NNNN 30 MHz 31 dBm	Frequency Auto Tune
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10 dB/div 0.00	ectrum Analyze 50 Ω eq 30.000 Ref 10.00	r - Swept SA OOO MHz Input: RF P IFr 0 dBm	NO: Fast G Gain:Low	AC SE	NSE:INT ≥ Run dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr >100/100 Mkr	04:43:10 f TRA TY D 1 320.0 -59.5	MApr 22, 2011 = 1 2 3 4 5 6 = MWWWWW = P NNNN 30 MHz 31 dBm	Frequency Auto Tune Center Frec 515.000000 MHz
Agilent Sp Xart Fro Start Fro 0.00	ectrum Analyze 50 Q eq 30.000 Ref 10.00	r - Swept SA 000 MHz Input: RF P IF1 0 dBm	NO: Fast Gain:Low	AC SEI	NSE:INT BRUN dB	Avg Type Avg Hold:	status ALIGNAUTO 2: Log-Pwr >100/100 MKr	04:43:10 f TRA TY D 1 320.0 -59.5	30 MHz 31 dBm	Frequency Auto Tune Center Frec 515.00000 MHz
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10 dB/div Start Fro	ectrum Analyze 50 Ω eq 30.000 Ref 10.00	r - Swept SA 000 MHz Input: RF P IFi 0 dBm	N0: Fast Gain:Low	AC SE Trig: Free Atten: 20	NSE:INT e Run dB	Avg Type Avg Hold:	status ALIGNAUTO :: LogPwr >100/100 Mkr	04:43:10 TRAC TY 0 1 320.0 -59.5	MApr 22, 2011 1 2 3 4 5 6 MMMMMM 1 2 3 4 5 6 MMMMMMM 2 3 4 5 6 MMP 2 3 5 6 MMP 2 3 5 6 MMP 2 3 5 6	Frequency Auto Tune Center Frec 515.000000 MHz Start Frec 30.000000 MHz
10 Agilent Sp 24 Start Fre 0.00 -10.0 -20.0	ectrum Analyze 50 Ω eq 30.000 Ref 10.0	r - Swept SA 000 MHz Input: RF P IF1 0 dBm	NO: Fast G	AC SE	NSE:INT Run dB	Avg Type Avg Hold:	ALIGNAUTO :: Log-Pwr >100/100 Mkr	04:43:10 TRA TY 1 320.0 -59.5	MApr 22, 2011 E 1 2 3 4 5 6 FM WANNAN 30 MHz 31 dBm	Frequency Auto Tune Center Frec 515.00000 MHz Start Frec 30.00000 MHz
Agilent S; Start Fru 10 dB/div Log 0.00 -10.0 -20.0 -30.0 -40.0	Ref 10.04	r - Swept SA 000 MHz Input: RF P IFI 0 dBm	NO: Fast G	AC SEI	NSE:INT	Avg Type Avg Hold:	ALIGNAUTO :: Log.Pwr >100/100 Mkr	04:43:101 TRAI TRAI TRAI TRAI TRAI TRAI TRAI TRAI	MApr 22, 2011 E 1 2 3 4 5 6 E M WWWWW FP NNNN 30 MHz 31 dBm	Frequency Auto Tune Center Frec 515.00000 MHz Start Frec 30.000000 MHz 1.00000000 GHz
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10 Agitent Sp. 10 dB/div Start Free 0.00 -10.0 -20.0 -30.0 -40.0	ectrum Analyze 50 Ω eq 30.000 Ref 10.0	r - Swept SA	N0: Fast Gain:Low	AC SE	NSE:INT	Avg Type Avg Hold:	status ALIGNAUTO :: Log-Pwr >100/100 Mkr	04:43:10 TRA TY 1 320.0 -59.5	MApr 22, 2011 E 1 2 3 4 5 6 FM WWWWWW 30 MHz 31 dBm -29.74 dBm	Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz OF Stop Freq 97.000000 MHz
10 Agitent Sp. 20 Start Fre 10 dB/div 0.00 -10.0 -20.0 -30.0 -40.0 -60.0	ectrum Analyze 50 Ω eq 30.000 Ref 10.0	r - Swept SA OOO MHz Input: RF P O dBm	NO: Fast G	AC SEI	NSE:INT AB	Avg Type Avg Hold:	status ALIGNAUTO E Log-Pwr >100/100 Mkr	04:43:10 TRA TY 1 320.0 -59.5	22,2011 E 1 2 3 4 5 6 FM WANNAN 30 MHz 31 dBm	Frequency Frequency Auto Tune Center Frec 515.000000 MHz Start Frec 30.000000 MHz CF Step 97.000000 MHz Auto Mar
10 Agilent S; 30 Start Fri 0 dB/div 0 00 -10.0	ectrum Analyze 50 Ω eq 30.0000 Ref 10.00	r - Swept SA	NO: Fast G	AC SE	NSE:INT	Avg Type Avg Hold:	ALIGNAUTO :: Log-Pwr >100/100 Mkr	04:43:101 TRAI TRAI TRAI TRAI	29.74 dBm	Frequency Frequency Auto Tune Center Frec 515.00000 MHz Start Frec 30.000000 MHz CF Step 97.000000 MHz Auto Mar Ereq Offset
J. Agilent S; Y Start Free 10 dB/div 0.00 -10.0 -20.0 -30.0 -40.0 -60.0 -70.0	etrum Analyze 50 Ω eq 30.000 Ref 10.00	r - Swept SA 000 MHz Input: RF P IFI 0 dBm	NO: Fast Gain:Low	AC SE	NSE:INT		ALIGNAUTO :: Log-Pwr >100/100 Mkr	04:43:101 TRAC TRAC 1 320.0 -59.5	MApr 22, 2011 E 1 2 3 4 5 6 MWWWWW T P NNNN 30 MHz 31 dBm -29.74 dBm	Frequency Frequency Auto Tune Center Frec 515.000000 MHz Start Frec 30.000000 GHz CF Step 97.00000 MHz Auto Mar Freq Offset 0 Hz
J. Agilent Sp. J2 Agilent Sp.	Ref 10.00	Swept SA OOO MHz Input: RF P IF O dBm O dBm	NO: Fast Gain:Low	AC SE	NSE:INT		ALIGNAUTO :: Log-Pwr >100/100 Mkr	04:43:10 TRA TY 1 320.0 -59.5	MApr 22, 2011 E 1 2 3 4 5 6 FM WANNAW 30 MHz 31 dBm -29.74 dBm	Frequency Frequency Auto Tune Center Frec 515.000000 MH2 Start Frec 30.000000 MH2 CF Step 97.000000 MH2 Auto Mar Freq Offset 0 H2
Agitent Sp. Magitent Sp. Start Fre 10 dB/div 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 -80.0	ectrum Analyze 50 Ω eq 30.000 Ref 10.0	r - Swept SA	NO: Fast Gain:Low	AC SEE	NSE:INT		ALIGNAUTO :: Log-Pwr >100/100 Mkr	04:43:10 Trai Ty 1 320.0 -59.5	29.74 dBm	Frequency Auto Tune Center Frec 515.000000 MHz Start Frec 30.000000 MHz CF Step 97.000000 MHz Auto Mar Freq Offset 0 Hz
Agitent Sport 20 Start Fre 0:00 -10:0 -20:0 -30:0 -40:0 -60:0 -70:0 -80:0 -70:0 Start 30.0	ectrum Analyze 50 Ω eq 30.000 Ref 10.0	r - Swept SA	NO: Fast Gain:Law	AC SEE	NSE:INT		ALIGNAUTO :: LogPwr >100/100 Mkr	04:43:101 TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC	MApr 22, 2011 E 1 2 3 4 5 6 E M WWWWW E P NNNN 30 MHz 31 dBm -29.74 dBm -29.74 dBm	Frequency Auto Tune Center Frec 515.00000 MHz Start Frec 30.000000 MHz CF Step 97.000000 GHz Auto Mar Freq Offset 0 Hz
Agjient S; Y Start Fro Start Fro -00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Willim -80.0 Start 30. #Res BW	ectrum Analyze 50 Ω eq 30.000 Ref 10.00	r - Swept SA	NO: Fast Gain:Low	AC SET		Avg Type Avg Hold:	ALIGNAUTO :: Log-Pwr >100/100 Mkr	04:43:101 TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC	MApr 22, 2011 E 1 2 3 4 5 6 MWMMWY TP NNNN 30 MHz 31 dBm -29.74 dBm -29.74 dBm -29.74 dBm -29.74 dBm	Frequency Frequency Auto Tune Center Frec 515.000000 MHz Start Frec 30.000000 GHz CF Step 97.00000 MHz Auto Mar Freq Offset 0 Hz

Channel 11 (2462MHz) 30-25GHz

:	Slate PC
:	RF Antenna Conducted Spurious
:	No.3 OATS
:	Mode 3: Transmit (802.11n HT0 7.2Mbps 20M-BW)
	:

Channel 01 (2412MHz) 30-25GHz

💴 Agilent Spe	ectrum Analyzer -	Swept SA								
XI Start Fre	50 Ω eq 1.00000 Ir	0000 GHz	NO: Fast G	Trig: Fre	e Run	Avg Type Avg Hold:	ALIGN AUTO : Log-Pwr : 5/100	04:43:54 F TRAC TYF	M Apr 22, 2011 E 1 2 3 4 5 6 E MWWWWW T P N N N N N	Frequency
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0.00	¥1									13.000000000 GH:
10.0	•									
-10.0										Start Fred
-20.0										1.00000000 GHz
-30.0									-27.55 dBm	
-30.0										Stop Free
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-70.0	A AND A	ار بسرمار براز	1997 1 19							0 Hi
-80.0									<u> </u>	
Start 1.00) GHz						100	Stop 2	5.00 GHz	
#Res BW	100 KHZ		#VBV	¥ 1.0 MHz			Sweep	2.22 s (1	0001 pts)	
MSG							STATUS	1		
Magilent Spe IXI	ectrum Analyzer - 50 Ω	Swept SA		AC SE	ENSE:INT		ALIGN AUTO	04:44:14 F	M Apr 22, 2011	
Start Fre	q 30.0000	00 MHz	NO: Eact	Trig: Fre	e Run	Avg Type Avg Hold:	e: Log-Pwr > 100/100	TRAC	E 1 2 3 4 5 6 E MWWWWW	Frequency
		IFO	Gain:Low	Atten: 20) dB			DE		Auto Tune
10 dB/div	Ref 10.00	dBm	.65	50			MKr	-56.8	69 MHz 60 dBm	
209										Center Free
0.00					-					515.000000 MH
10.0										
-10.0										Start Free
-20.0										30.000000 MH
20.0									-27.55 dBm	
-30.0										Stop Free
-40.0	4									1.000000000 GH
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-50.0		▲ 1								97.000000 MH
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-70.0		C DOG DOG DO	a patricage and a state of the	n nativitati andi	a na	an and an				0 Hz
-80.0										
Start 30.0	0 MHz	4						Stop 1.0	0000 GHz	
#Res BW	100 kHz		#VBV	/ 1.0 MHz			Sweep 9	0.0 ms (1	0001 pts)	
							OTATIO			



Agilent Spe	ectrum Analyzer	- Swept SA	1		100	AL TONI AL ITTO	04:45:04		
art Fre	q 1.00000	00000 GHz	: 10: Fast 😱	Trig: Free Ru	Avg Tyj n Avg Hol	pe: Log-Pwr d: 7/100	TRAC TY D	CE 1 2 3 4 5 6 PE MWWWW ET P N N N N N	Frequency
dB/div	Ref 10.00	dBm	Jam.Luw	TREEN. LO UD		Mk	r1 2.43 -4.1	5 2 GHz 42 dBm	Auto Tur
g			<u> </u>						Center Fre
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0.0									
art 1.00) GHz		#\/B\M			Swoon	Stop 2	5.00 GHz	
art 1.00 Res BW) GHz 100 kHz		#VBW	1.0 MHz		Sweep STATUS	Stop 2 2.22 s (1	5.00 GHz 0001 pts)	
art 1.00 Res BW) GHz 100 kHz	- Swent S&	#VBW	1.0 MHz		Sweep status	Stop 2 2.22 s (1	25.00 GHz 0001 pts)	
art 1.00 Res BW) GHz 100 kHz ectrum Analyzer 50 Ω	- Swept SA	#VBW	1.0 MHz	۱۳۱۰ - ۲۷۱ Аνа Ти	Sweep STATUS ALIGN AUTO De: Log-Pwr	Stop 2 2.22 s (1	25.00 GHz 0001 pts)	Frequency
art 1.00 Res BW Agilent Spe art Fre	2 GHz 100 kHz ectrum Analyzer 50 Ω 2 g 30.0000	- Swept SA 000 MHz Input: RF PI	#VBW	Trig: Free Ru Atten: 20 dB	VT Avg Tyj Avg Tyj h Avg Hol	Sweep status ALIGN AUTO pe: Log-Pwr d>100/100	Stop 2 2.22 s (1 04:45:27 F	25.00 GHz 0001 pts) 2001 pts 2001 pts 2	Frequency
Agilent Spe art T.00 Agilent Spe art Fre	0 GHz 100 kHz ectrum Analyzer 50 Ω q 30.00000 Ref 10.000	- Swept SA 000 MHz Input: RF Pt IFC	#VBW	AC SENSE: Trig: Free Ru Atten: 20 dB	NT Avg Tyj Avg Tyj n Avg Hol	Sweep status ALIGNAUTO pe: Log-Pwr d:>100/100 Mkr	Stop 2 2.22 s (1 04:45:27 f TRAC TY D 1 279.9 -58.7	25.00 GHz 0001 pts) 2001 pts 1 2 3 4 5 6 21 2 3 4 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	Frequency Auto Tu
Agilent Spo art Fre	9 GHz 100 kHz 200 kHz 50 Ω 20 30.0000 Ref 10.00	- Swept SA DOO MHZ Input: RF Pt IFC	#VBW	AC SENSE: Trig: Free Ru Atten: 20 dB	VT Avg Tyj Avg Tyj Avg Hol	Sweep status ALIGNAUTO pe: Log-Pwr d:> 100/100 Mkr	Stop 2 2.22 s (1 04:45:27 f TRAC TY D 1 279.9 -58.7	25.00 GHz 0001 pts) 2001 pts 2001 pts 2	Frequency Auto Tu Center Fr
Agilent Spe art Fre) GHz 100 kHz setrum Analyzer 50 2 eq 30.00000 Ref 10.00	- Swept SA 1000 MHz Input: RF PP IFC	#VBW	AC SENSE: Trig: Free Ru Atten: 20 dB	VT Avg Tyj Avg Tyj n Avg Hol	Sweep status ALIGNAUTO pe: Log-Pwr d:>100/100 Mkr	Stop 2 2.22 s (1 04:45:27 TRAK TY 1 279.9 -58.7	25.00 GHz 0001 pts) MApr 22, 2011 12 1 2 3 4 5 6 FEI MINININ 69 MHz 13 dBm	Auto Tu Center Fr 515.00000 M
dB/div	0 GHz 100 kHz ≤etrum Analyzer 50 Ω q 30.00000 Ref 10.000	- Swept SA DOO MHz Input: RF PP IFC	#VBW	AC SERVSE: Trig: Free Ru Atten: 20 dB	Avg Ty Avg Ty Avg Hol	Sweep status ALIGNAUTO pe: Log-Pwr d:>100/100 Mkr	Stop 2 2.22 s (1	25.00 GHz 0001 pts) MApr 22, 2011 12 1 2 3 4 5 6 FP NNNNN 669 MHz 13 dBm	Frequency Auto Tu Center Fr 515.00000 M
dB/div g dB/div g art Fre	Contract of the sector of the	- Swept SA DOO MHZ Input: RF PP IFC	#VBW	AC SENSE: Trig: Free Ru Atten: 20 dB	Avg Ty Avg Ty Avg Hol	Sweep status ALIGNAUTO pe: Log-Pwr d>100/100	Stop 2 2.22 s (1	25.00 GHz 0001 pts) MApr 22, 2011 12 1 2 3 4 5 6 PM MAY 22 1 2 3 4 5 6 PM MAY 22 13 dBm -24.14 dBm	Frequency Auto Tu Center Fr 515.000000 M Start Fr 30.000000 M
Agilent Spe a dB/div	2 GHz 100 kHz cetrum Analyzer 50 Ω q 30.0000 Ref 10.000	- Swept SA DOO MHZ Input: RF PI IFC D dBm	#VBW	AC SENSE() Trig: Free Ru Atten: 20 dB	VT Avg Ty Avg Hol	Sweep status ALIGNAUTO pe: Log-Pwr d:> 100/100 Mkr	Stop 2 2.22 s (1	25.00 GHz 0001 pts)	Frequency Auto Tu Center Fr 515.000000 M Start Fr 30.000000 M Stop Fr 1.000000000 G
Agilent Spo Agilent Spo art Fre	Carl Control	- Swept SA	#VBW	AC SENSE:	Avg Tyj Avg Tyj Avg Hol	Sweep status ALIGNAUTO pe: Log-Pwr d:>100/100 Mkr	Stop 2 2.22 s (1	25.00 GHz 0001 pts)	Frequency Auto Tu Center Fi 515.000000 M Start Fi 30.000000 M Stop Fi 1.000000000 C CF St
Agilent Spe art Fre dB/div 9 00 00 00 00 00 00 00 00 00 00 00 00 0	D GHz 100 kHz so ∞ o g 30.0000 Ref 10.000	- Swept SA DOO MHz Input: RF PP IFC	#VBW	AC SENSE: Trig: Free Ru Atten: 20 dB	Avg Tyj Avg Hol	Sweep status ALIGNAUTO pe: Log-Pwr d:>100/100 Mkr	Stop 2 2.22 s (1	25.00 GHz 0001 pts)	Frequency Auto TL Center Fit 515.000000 M Start Fit 30.000000 M Stop Fit 1.000000000 M 97.000000 M Auto M
art 1.00 Res BW art free art Free dB/div 9 00	D GHz 100 kHz so ∞	- Swept SA DOO MHz Input: RF PP IFC	#VBW	AC SENSE:		Sweep status ALIGNAUTO pe: Log-Pwr d:>100/100 Mkr	Stop 2 2.22 s (1	25.00 GHz 0001 pts)	Frequency Auto Tu Center Fr 515.000000 M Start Fr 30.000000 M Stop Fr 1.000000000 G CF St 97.000000 M Auto M Freq Off 0
Agilent Spo art Fre dB/div g 00 00 00 00 00 00 00 00 00 00 00 00 0	D GHz 100 kHz 20 Ω 30.0000 Ref 10.000 	- Swept SA DOO MHz Input: RF PP IFC D dBm	#VBW	AC SENSE: Trig: Free Ru Atten: 20 dB		Sweep status aLIGNAUTO pe: Log-Pwr d:> 100/100 Mkr	Stop 2 2.22 s (1	25.00 GHz 0001 pts)	Frequency Auto Tu Center Fr 515.00000 M Start Fr 30.000000 M Stop Fr 1.00000000 G CF St 97.00000 M Auto N Freq Offa
Agilent Spe art Fre	D GHz 100 kHz ectrum Analyzer S0 Ω q 30.0000 Ref 10.00 0 0 0 0 0 0 0 0 0 0 0 0	- Swept SA	#VBW	AC SENSE:		Sweep status ALIGNAUTO pe: Log-Pwr d>100/100 Mkr	Stop 1.0	25.00 GHz 0001 pts)	Frequency Auto Tu Center Fit 515.000000 M Start Fit 30.000000 M Stop Fit 1.000000000 G Gr Stop Fit 97.000000 M Auto Tu Freq Offs 0

Channel 06 (2437MHz) 30-25GHz



🔟 Agilent Sp	pectrum Analyzer	- Swept SA								
× Start Fro	eq 1.00000	10000 GHz nput: RF PI	Z NO: Fast 🖵	Trig: Free	Run	Avg Type Avg Hold:	ALIGNAUTO : Log-Pwr 10/100	04:46:24 F TRAC TYP	M Apr 22, 2011 E 1 2 3 4 5 6 E M WWWWW T P N N N N N	Frequency
10 dB/div	Ref 10.00	dBm	Gain:Low	Atten: 20	aB		Mk	r1 2.46 [°] -10.8	16 GHz 52 dBm	Auto Tune
										Center Freq
0.00	≜ ¹									13.00000000 GHz
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Channel 11 (2462MHz) 30-25GHz

Product	:	Slate PC [u2]
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit (802.11n HT0 15Mbps 40M-BW)

Channel 01 (2422MHz) 30-25GHz





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Channel 04 (2437MHz) 30-25GHz



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Channel 07 (2452MHz) 30-25GHz

6. Band Edge

6.1. Test Equipment

RF Conducted Measurement

The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2010
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2010
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2011
Х	8-WAY Power Divider	JFW	50PD-647 / 526770 0916	Apr., 2011

Note:

- 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
- 2. The test instruments marked with "X" are used to measure the final test results.
- 3. The power combiner is used for measure 11n mode.

RF Radiated Measurement:

The following test equipments are used during the band edge tests:

Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
Site # 3		Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2010
	Х	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2010
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2010
	Х	Pre-Amplifier	Agilent	8447D/2944A09549	Sep., 2010
	Х	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2010
		Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2010
	Х	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2011
	Х	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

Note:

1. All instruments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

6.2. Test Setup

RF Conducted Measurement



RF Radiated Measurement:



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2009 on radiated measurement.

6.5. Uncertainty

- ± 3.9 dB above 1GHz
- ± 3.8 dB below 1GHz

6.6. Test Result of Band Edge

Product	:	Slate PC
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps)

Fundamental Filed Strength

Antenna	Frequency	Correction Factor	Reading Level	Emission Level	Detector
Pole	[MHz]	[dB/m]	[dBuV]	[dBuV/m]	
Horizontal	2412	31.639	69.2	100.838	Peak
Horizontal	2412	31.639	65.12	96.758	Average
Vertical	2412	30.95	62.25	93.199	Peak
Vertical	2412	30.95	58.35	89.299	Average

Note: 1:Spectrum Analyzer setting:

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Peak detector: RBW=1MHz, VBW=1MHz
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Average detector: RBW=1MHz, VBW=10Hz

Band Edge Test Data

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	Δ(dB)	Band Edge Field Strength (dBuV/m)	Detector
Horizontal	2390	100.838	48.469	52.369	Peak
Horizontal	2371.2	96.758	57.687	39.071	Average
Vertical	2390	93.199	48.469	44.73	Peak
Vertical	2371.2	89.299	57.687	31.612	Average

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:

Band Edge field Strength = $F - \Delta$

F = Fundamental field Strength (Peak or Average)

 Δ = Conducted Band Edge Delta (Peak or Average)



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Peak Detector of conducted Band Edge Delta

Average Detector of conducted Band Edge Delta

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Product	:	Slate PC
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (802.11b 1Mbps)

Fundamental Filed Strength

Antenna	Frequency	Correction Factor	Reading Level	Emission Level	Detector
Pole	[MHz]	[dB/m]	[dBuV]	[dBuV/m]	
Horizontal	2462	32.019	69.21	101.229	Peak
Horizontal	2462	32.019	65.23	97.249	Average
Vertical	2462	31.29	61.2	92.49	Peak
Vertical	2462	31.29	57.25	88.54	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

Band Edge Test Data

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	Δ (dB)	Band Edge Field Strength (dBuV/m)	Detector
Horizontal	2483.5	101.229	48.066	53.163	Peak
Horizontal	2483.5	97.249	56.832	40.417	Average
Vertical	2483.5	92.49	48.066	44.424	Peak
Vertical	2483.5	88.54	56.832	31.708	Average

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:

Band Edge field Strength = F - Δ

F = Fundamental field Strength (Peak or Average)

 Δ = Conducted Band Edge Delta (Peak or Average)

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Peak Detector of conducted Band Edge Delta

Average Detector of conducted Band Edge Delta

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Center Freq 2.4835	500000 GHz	AC SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr AvglHold: 5/100	05:14:39 PM Apr 07, 2011 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Save As
10 dB/div Ref 10.00	dBm	#Atten: 20 dB	M	kr2 2.483 5 GHz -55.490 dBm	Save
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-60.0					Save As type
Center 2.48350 GHz #Res BW 1.0 MHz MXR MODE TRC SCL	#VBV	V 10 Hz	Swee	Span 100.0 MHz p 7.80 s (1001 pts)	Dp One Leve
1 N 1 f 2 N 1 f 3 4 5 5 6 7 7 8	2.461 4 GHz 2.483 5 GHz	1.342 dBm -55.490 dBm			Create Nev Folde
/ / 8					Cance
MSG			STATU	s	

Product	:	Slate PC
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit (802.11g 6Mbps)

Fundamental Filed Strength

Antenna	Frequency	Correction Factor	Reading Level	Emission Level	Detector
Pole	[MHz]	[dB/m]	[dBuV]	[dBuV/m]	
Horizontal	2412	31.639	62.45	94.088	Peak
Horizontal	2412	31.639	53.15	84.788	Average
Vertical	2412	30.95	54.7	85.649	Peak
Vertical	2412	30.95	45.62	76.569	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

Band Edge Test Data

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	Δ (dB)	Band Edge Field Strength (dBuV/m)	Detector
Horizontal	2389	94.088	44.954	49.134	Peak
Horizontal	2390	84.788	47.531	37.257	Average
Vertical	2389	85.649	44.954	40.695	Peak
Vertical	2390	76.569	47.531	29.038	Average

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:

Band Edge field Strength = F - Δ

F = Fundamental field Strength (Peak or Average)

 Δ = Conducted Band Edge Delta (Peak or Average)



D Ag	ilent S	Spect	rum	Analyzer -	Swept SA							8			
w Cer	nter	Fre	50 S 9 q	2.3900	00000	GHz			Ave	A Type: Hold:>:	LIGN AUTO Log-Pwr 100/100	04:48:59 F TRAC	M Apr 07, 2011	Sav	ve As
				In	put: RF	PNO: Fast FGain:Low	Atten:	30 dB	018	In long 2	NAL	DI 0 11			Save
10 d	B/div	,	Ref	20.00	dBm						IVIK	0.8	4 4 GHZ 36 dBm		
10.0			_								1			F	ile/Folder
0.00									[-				List
-20.0															
-30.0	\vdash		+					//32 /				No.		F	ile name:
-40.0 -50.0	ended.	+~~~+	الإسعم	وستبدريه ومراء	entransa and	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	r	when	-				and the second second		
-60.0			-												Save As
-70.0															type:
Cer #Re	nter : es Bl	2.39 N 1	900 .0 P	0 GHz /IHz		#VI	BW 1.0 MH	łz		#	Sweep	Span 1 500 ms (00.0 MHz 1001 pts)	1	Up One
MKR 1	MODE	TRC 1	SCL		× 2.41	4.4.6.4.7	Y 0.936	dRm	FUNCTION	FUNC	TION WIDTH	FUNCTIO	ON VALUE		Level
23	NN	1	f		2.39	0 0 GHz 9 0 GHz	-44.586 -44.118	dBm dBm							rooto Now
4										-				90	Folder
7				5						-					
9 10															Cancel
11 12															
MSG											STATUS	5			

Peak Detector of conducted Band Edge Delta

Average Detector of conducted Band Edge Delta

🎾 Agilent Spectrum Anal	yzer - Swept SA					
VI 50 Ω Center Freq 2.3	390000000 GHz	AC SENSE:IN	T ALIG Avg Type: Log AvalHold: 8/10	NAUTO 05:11:53 F g-Pwr TRAC 0 TYP	M Apr 07, 2011 E 1 2 3 4 5 6 E M WWWWWW	Save As
10 dB/div Ref 10	IFGain:Low	/ #Atten: 20 dB		Mkr2 2.390 -63.3	0 0 GHz 56 dBm	Save
-10.0			mm	n'n		File/Folder List
-30.0		2				File name
-60.0 -70.0 -80.0						Save As type
Center 2.39000 G #Res BW 1.0 MH MKR MODE TRO SCL	Hz z #V	BW 10 Hz	FUNCTION FUNCTION	Span 1 Weep 7.80 s (00.0 MHz 1001 pts) N VALUE	Dup One
1 N 1 f 2 N 1 f 3 4 5 6	2.416 3 GHz 2.390 0 GHz	-15.825 dBm -63.356 dBm				Create New Folde
/ 8 9 10 11 12						Cance
MSG				STATUS		