



Produkte Products

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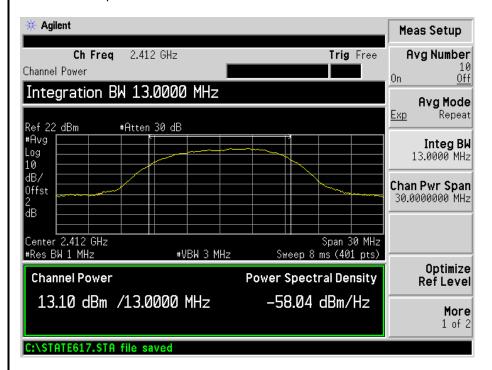
1. Maximum Peak Conducted Output Power

1.1 Test Datas

Test Mode	Frequency (MHz)	Reading (dBm)	Output Power (mW)	Limit (mW)
	2412	13.1	20.417	1000
802.11b (11Mbps)	2437	11.85	15.311	1000
	2462	11.91	15.524	1000
	2412	10.87	12.218	1000
802.11g (54Mbps)	2437	8.93	7.816	1000
	2462	8.62	7.278	1000
	2412	9.95	9.886	1000
802.11n-HT20 (MCS7)	2437	8.53	7.129	1000
	2462	10.17	10.399	1000
	2422	10.04	10.093	1000
802.11n-HT40 (MCS7)	2437	9.05	8.035	1000
	2452	9.74	9.419	1000

1.2 Test Plots

802.11b-11Mbps-Low Channel



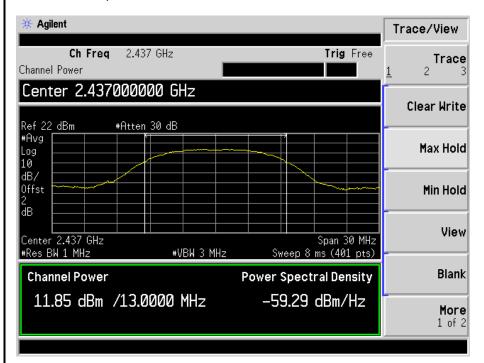
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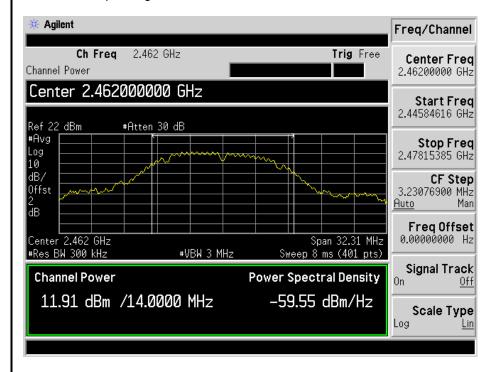
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802.11b -11Mbps-Middle Channel



802.11b -11Mpbs-High Channel





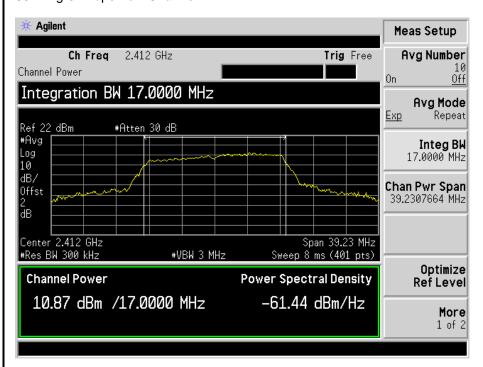
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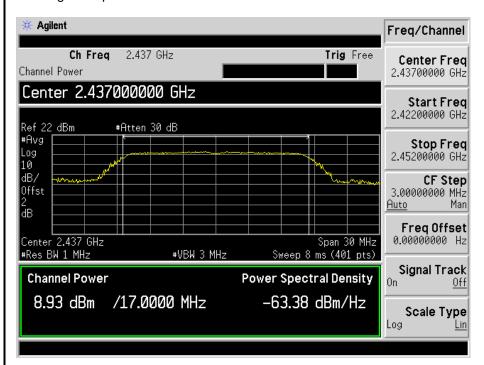
802.11g-54Mbps-Low Channel

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802.11g-54Mbps-Middle Channel



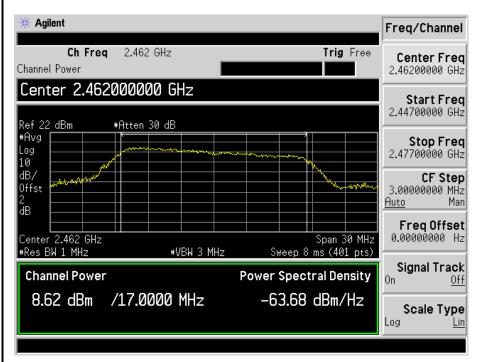
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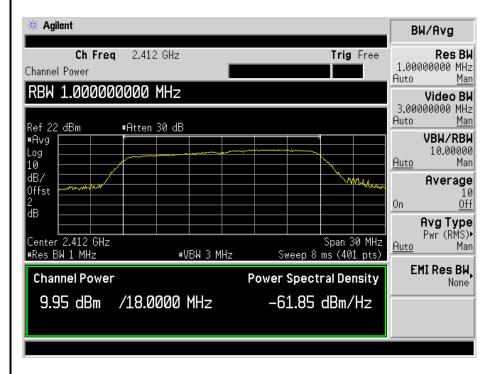
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802.11g-54Mpbs-High Channel



802.11n-HT20-MCS7-Low Channel



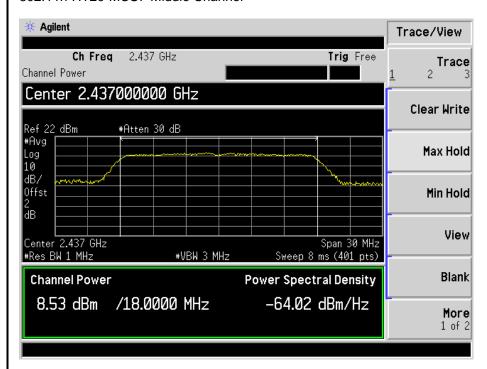
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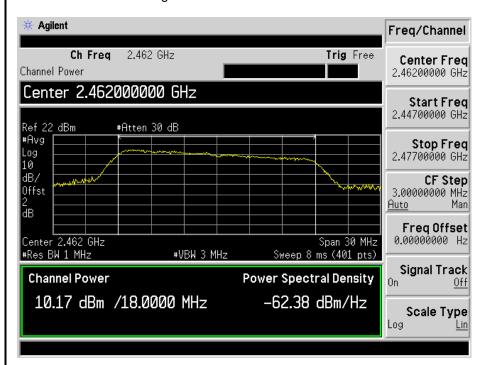
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802.11n-HT20-MCS7-Middle Channel



802.11n-HT20-MCS7-High Channel



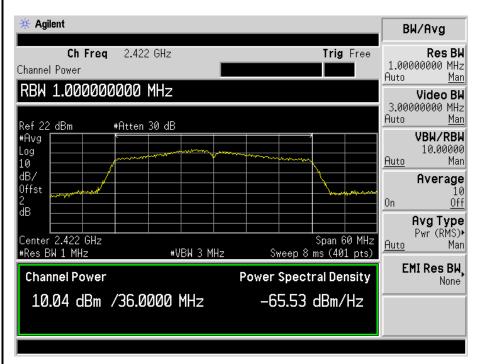




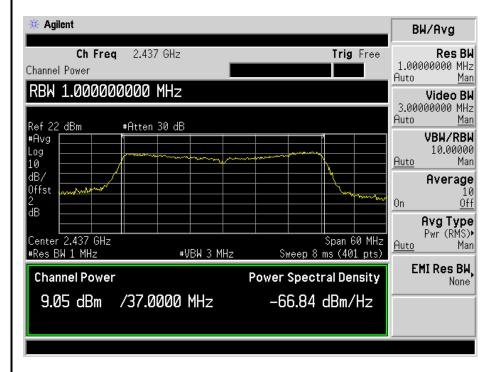
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802.11n-HT40-MCS7-Low Channel



802.11n-HT40-MCS7-Middle Channel



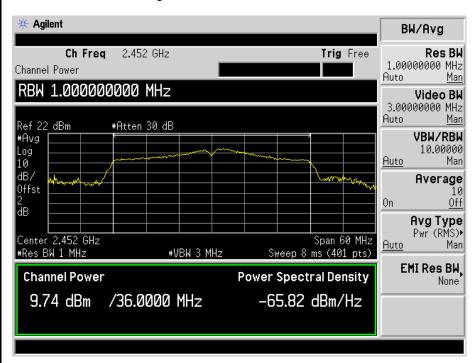
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802.11n-HT40-MCS7-High Channel



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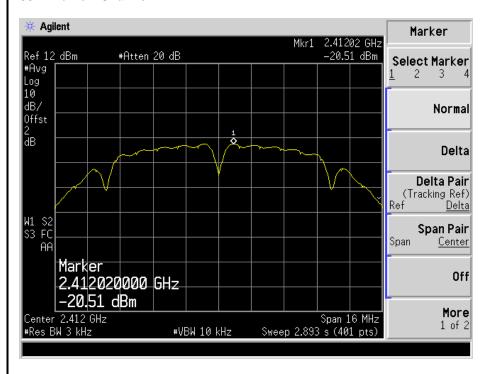
2. Conducted Power Spectral Density

2.1 Test Datas

Test Mode	Test Channel (MHz) Power Spectral Density (dBm/3kHz)		Limit (dBm/3kHz)
	2412	-20.51	8
802.11b (11Mbps)	2437	-20.53	8
	2462	-20.58	8
	2412	-23.02	8
802.11g (54Mbps)	2437	-24.51	8
	2462	-22.73	8
	2412	-22.40	8
802.11n-HT20 (MCS7)	2437	-24.77	8
	2462	-22.71	8
	2422	-24.67	8
802.11n-HT40 (MCS7)	2437	-26.28	8
	2452	-24.19	8

2.2 Test Plots

802.11b-Low Channel



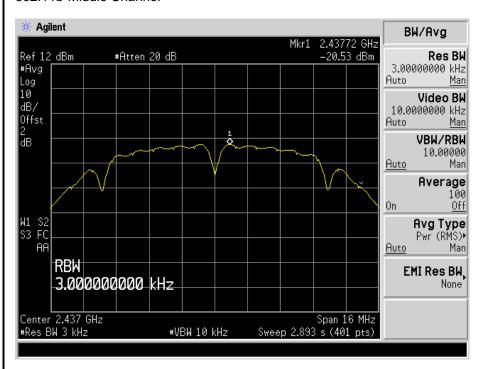
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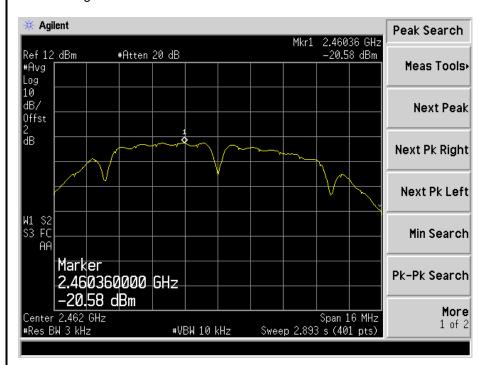
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802.11b-Middle Channel



802.11b-High Channel





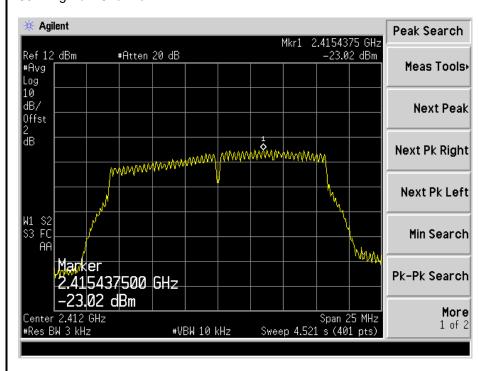
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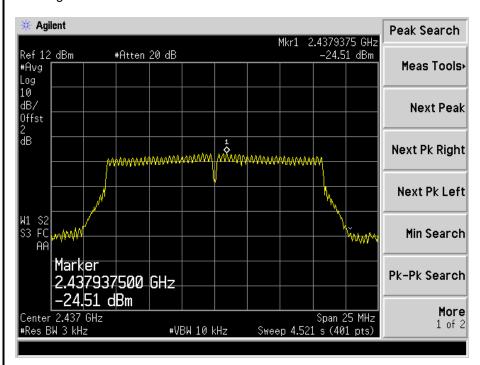
802.11g-Low Channel

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802.11g-Middle Channel



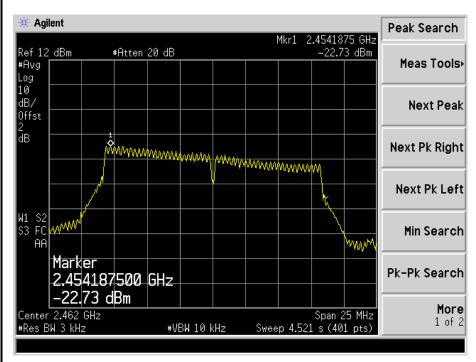
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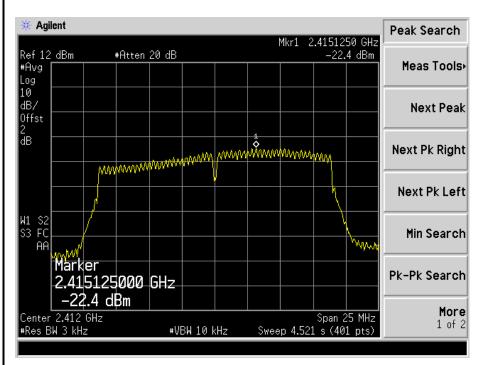
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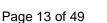
802.11g-High Channel



802.11n-HT20-Low Channel





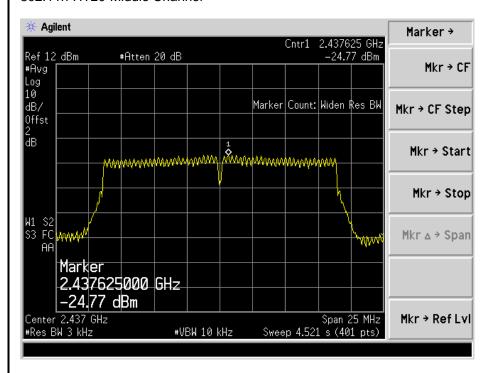




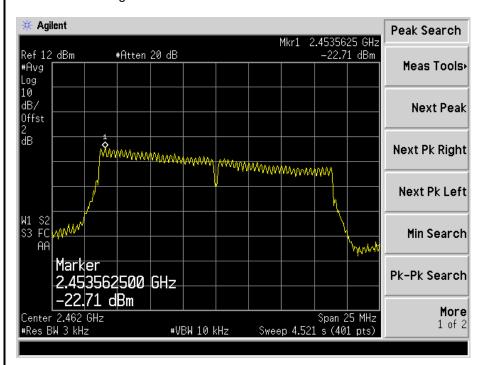
802.11n-HT20-Middle Channel

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802.11n-HT20-High Channel



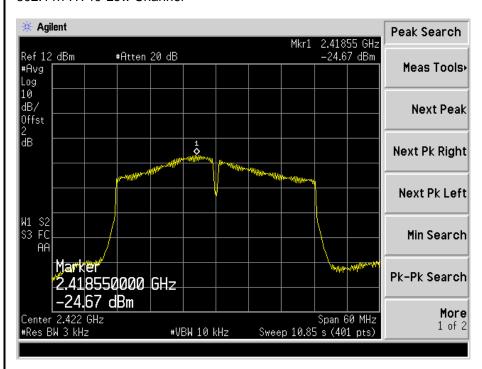
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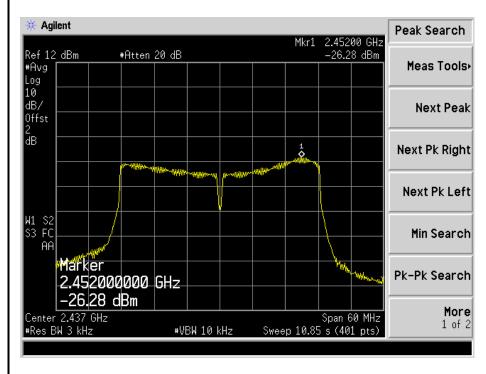




802.11n-HT40-Low Channel



802.11n-HT40-Middle Channel



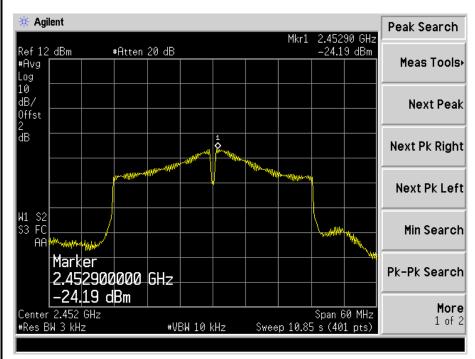
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802.11n-HT40-High Channel



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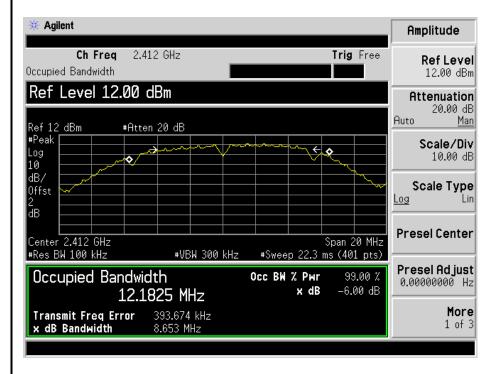
3. 6dB Bandwidth

3.1 Test Datas

Test Mode	Test Channel (MHz)	6 dB Bandwidth (MHz)	Limit (KHz)
	2412	8.653	≥500
802.11b (11Mbps)	2437	9.738	≥500
	2462	9.139	≥500
	2412	13.656	≥500
802.11g (54Mbps)	2437	16.560	≥500
	2462	12.489	≥500
	2412	14.268	≥500
802.11n-HT20 (MCS7)	2437	17.794	≥500
	2462	12.344	≥500
	2422	17.775	≥500
802.11n-HT40 (MCS7)	2437	36.434	≥500
	2452	12.857	≥500

3.2 Test Plots

802.11b-Low Channel



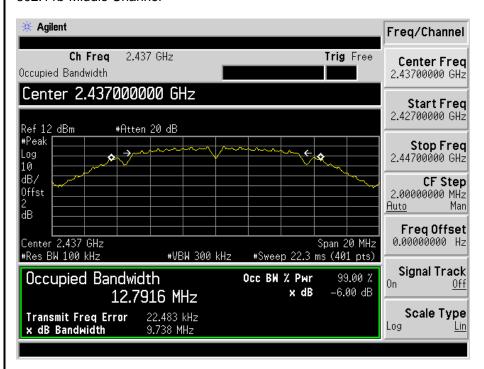
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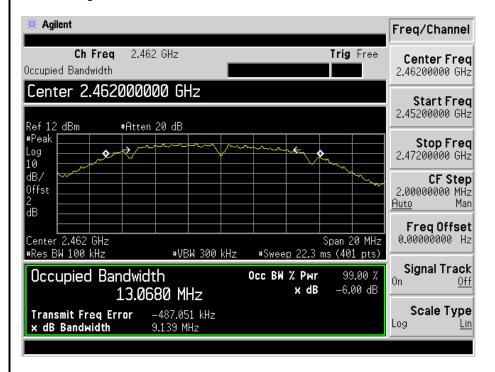
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802.11b-Middle Channel



802.11b-High Channel



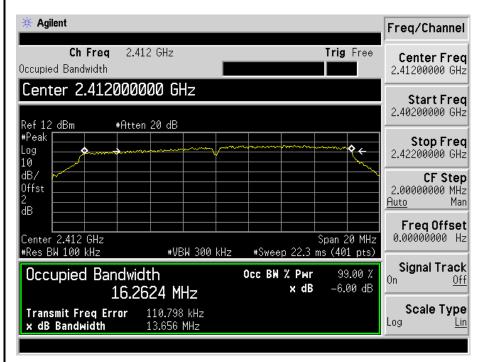
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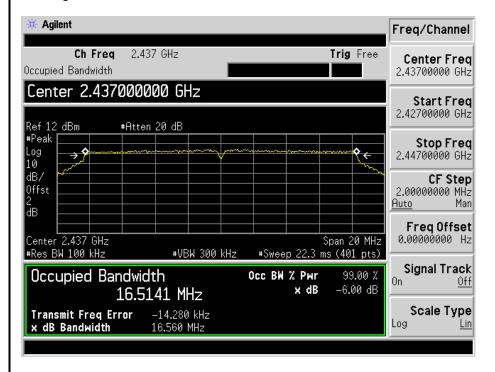
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802.11g-Low Channel



802.11g-Middle Channel



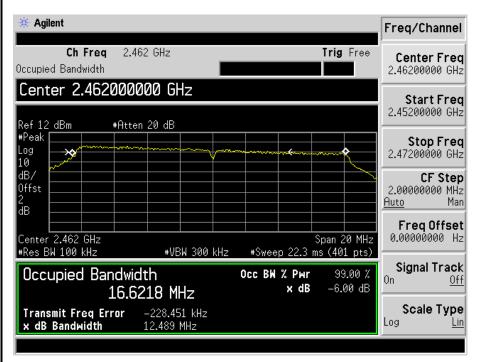
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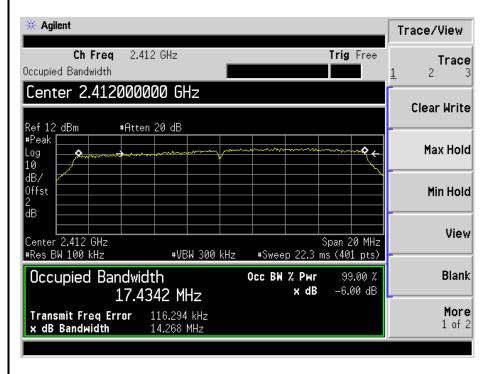
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802.11g-High Channel



802.11n-HT20-Low Channel



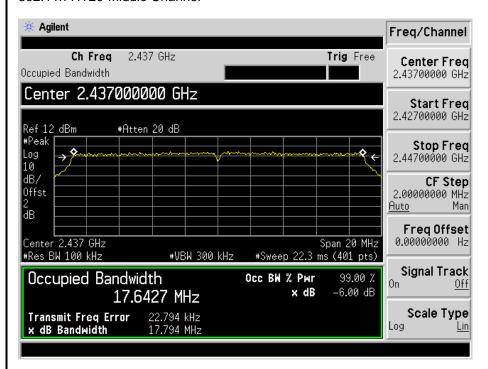
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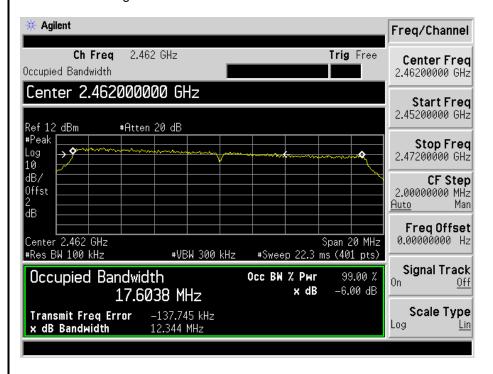
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802.11n-HT20-Middle Channel



802.11n-HT20-High Channel



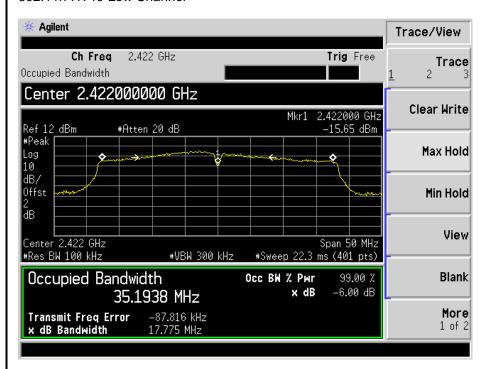
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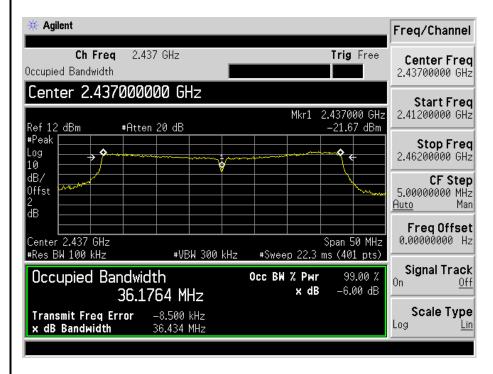
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802.11n-HT40-Low Channel



802.11n-HT40-Middle Channel



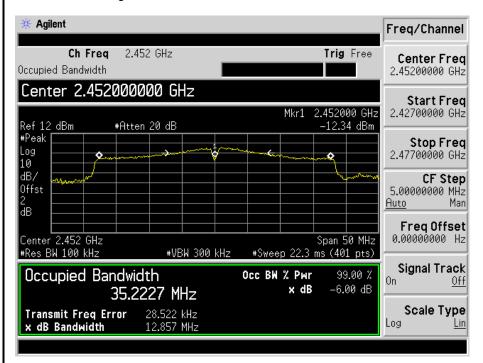
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802.11n-HT40-High Channel



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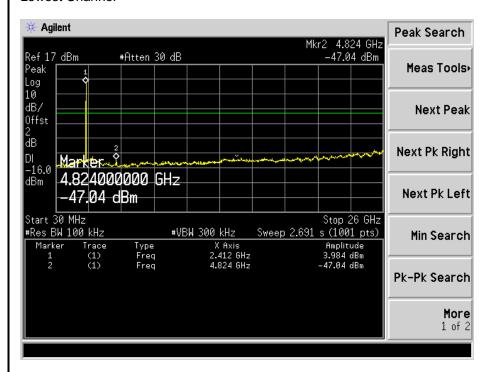
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4. Conducted Spurious Emissions

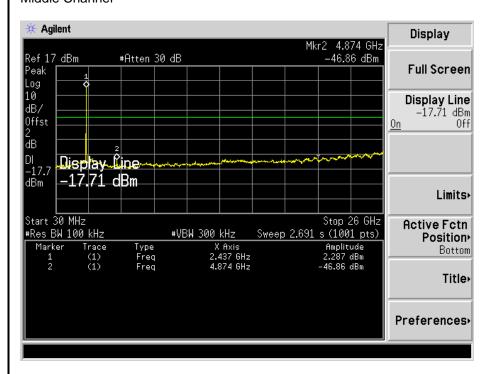
4.1 Test Plots

802.11b-Lowest

Lowest Channel



Middle Channel



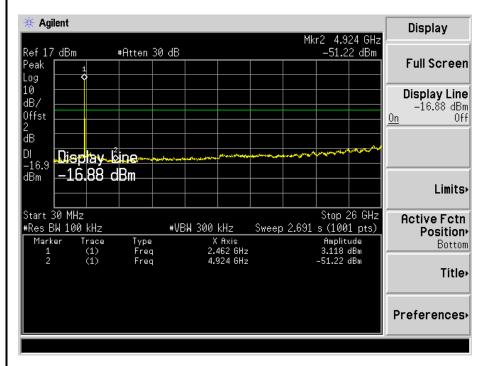
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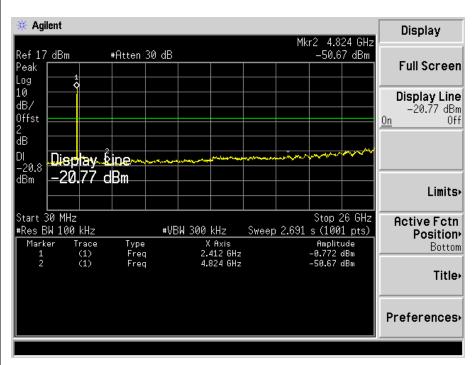
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Highest Channel



802.11g-Lowest

Lowest Channel



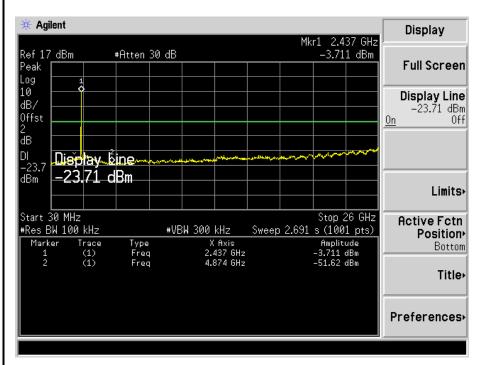
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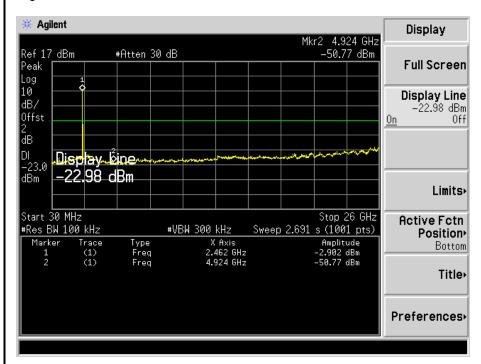


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Middle Channel





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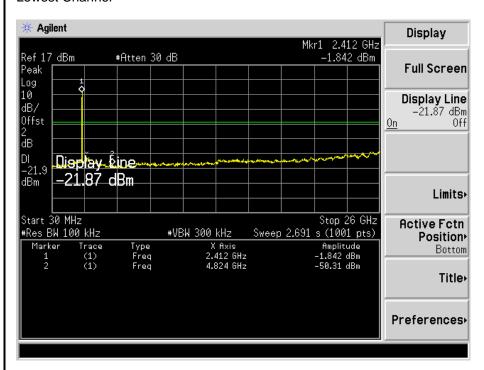


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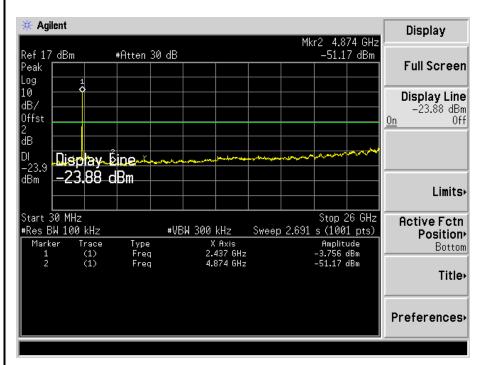
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802.11n-HT20-Lowest

Lowest Channel



Middle Channel



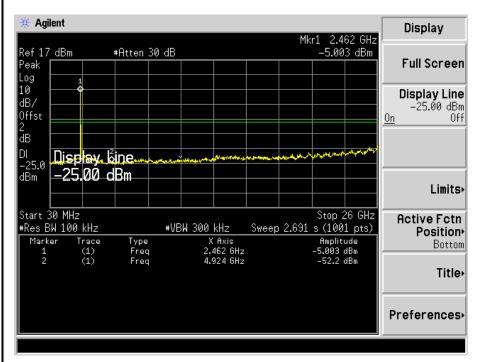
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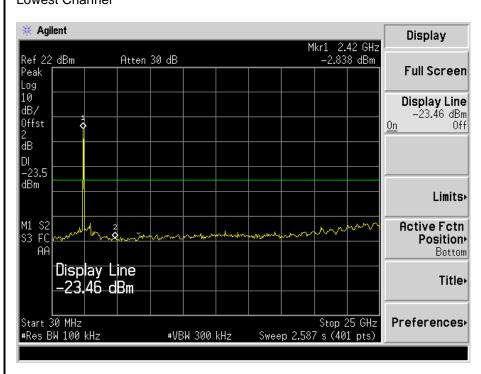
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Highest Channel



802.11n-HT40-Lowest

Lowest Channel



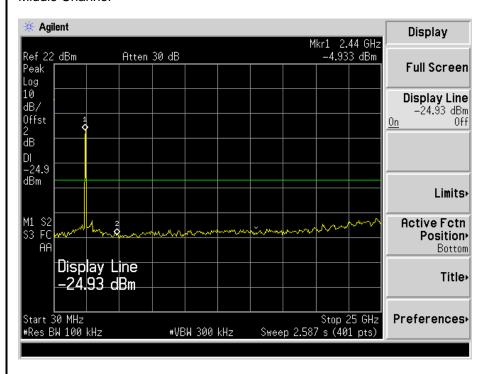
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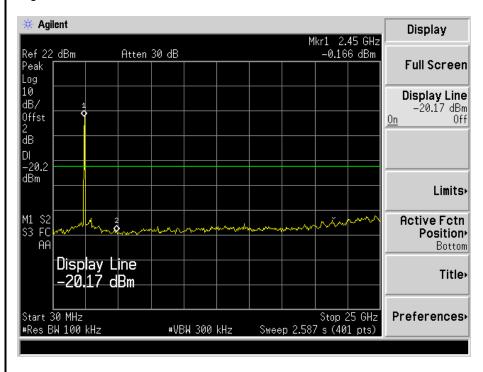


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Middle Channel





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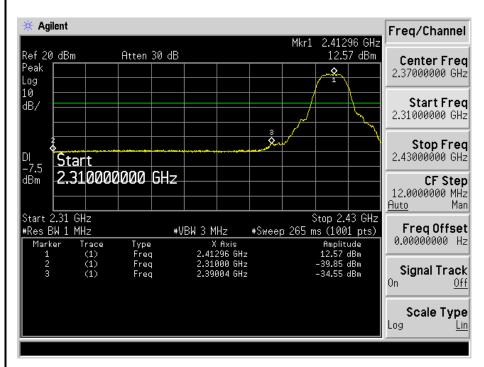


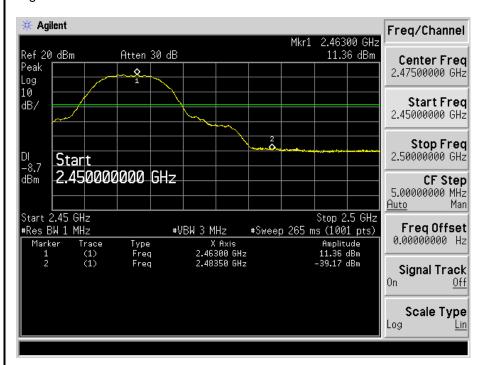
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Conducted bandedge

802.11b-Lowest





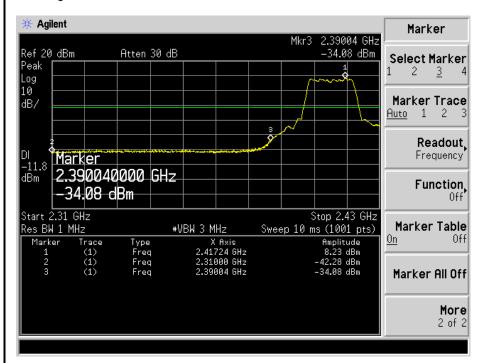
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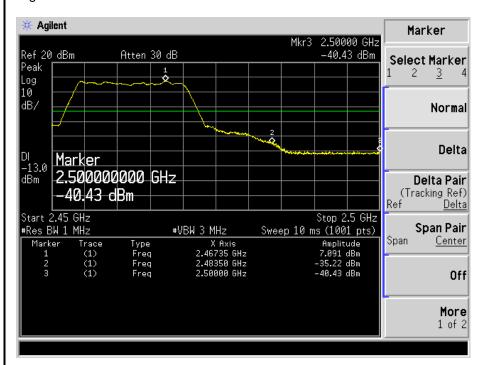


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802.11g-Lowest





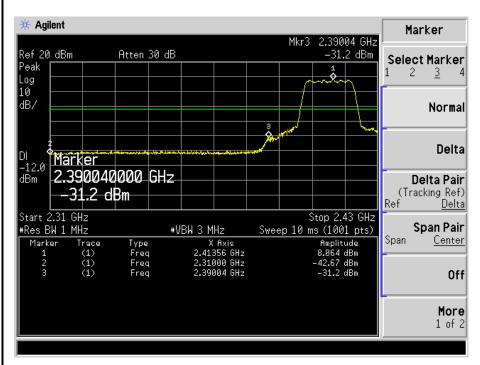
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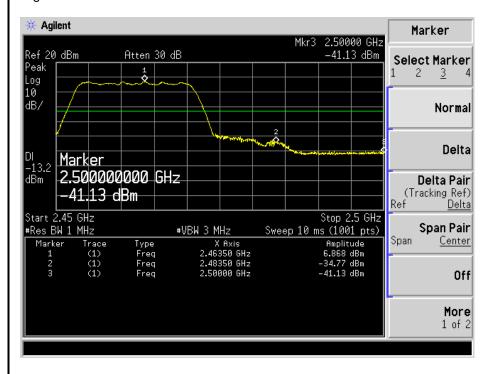


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802.11n-HT20-Lowest





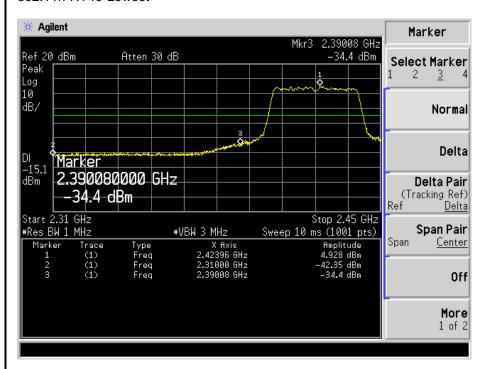
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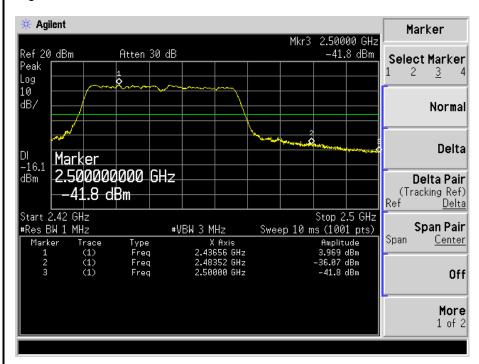


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802.11n-HT40-Lowest





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5. Radiated Spurious Emissions

5.1 Test Datas

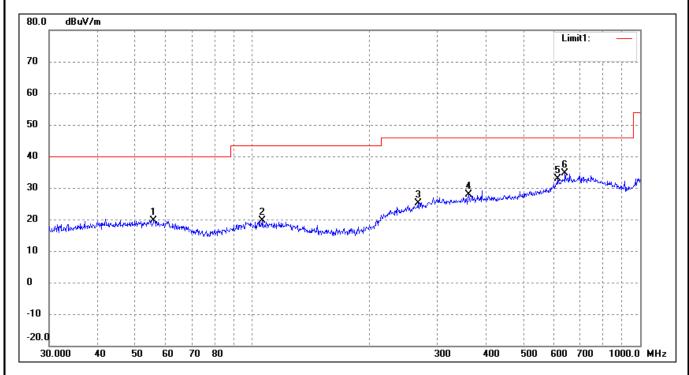
Radiated Spusioue Emissions Test Data (30MHz to 1GHz)

EUT: Mobile Phone

Tested Model: EZ-100

Operating Condition: 802.11b Transmitting Low Channel-2412MHz (Worst case)

Antenna Position: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	55.8047	14.70	5.02	19.72	40.00	-20.28	132	100	
2	106.0126	14.67	4.88	19.55	43.50	-23.95	251	100	
3	267.5455	14.89	10.23	25.12	46.00	-20.88	308	100	
4	361.7139	15.86	11.90	27.76	46.00	-18.24	77	100	
5	612.0642	14.85	17.92	32.77	46.00	-13.23	139	100	
6	640.6110	16.49	18.05	34.54	46.00	-11.46	10	100	

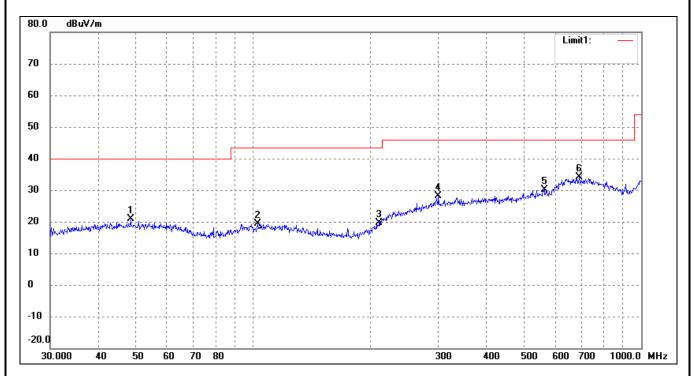
Appendix A **50064681 003**



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Antenna Position: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	48.3318	15.95	4.96	20.91	40.00	-19.09	190	100	
2	102.7192	14.51	4.90	19.41	43.50	-24.09	204	100	
3	211.5265	13.75	5.85	19.60	43.50	-23.90	173	100	
4	300.3673	16.12	11.95	28.07	46.00	-17.93	251	100	
5	562.6624	15.92	14.16	30.08	46.00	-15.92	146	100	
6	691.9867	16.23	17.78	34.01	46.00	-11.99	244	100	

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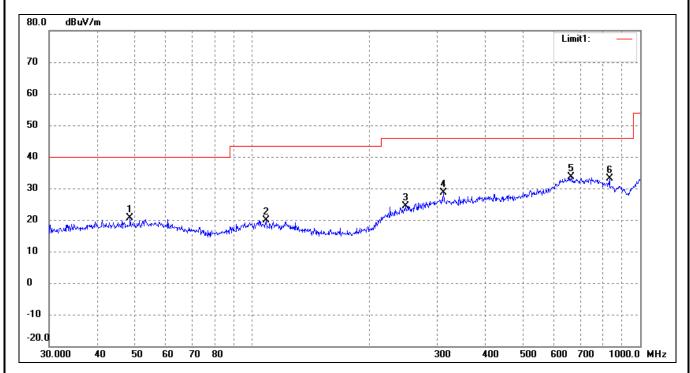


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Operating Condition: Antenna Position: 802.11b Transmitting Middle Channel-2437MHz(Worst case)

Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	48.5016	15.75	4.97	20.72	40.00	-19.28	149	100	
2	108.6470	14.99	4.87	19.86	43.50	-23.64	306	100	
3	248.5519	15.04	9.25	24.29	46.00	-21.71	171	100	
4	311.0867	16.60	11.95	28.55	46.00	-17.45	242	100	
5	663.4729	15.90	17.76	33.66	46.00	-12.34	134	100	
6	833.3171	17.27	15.91	33.18	46.00	-12.82	228	100	

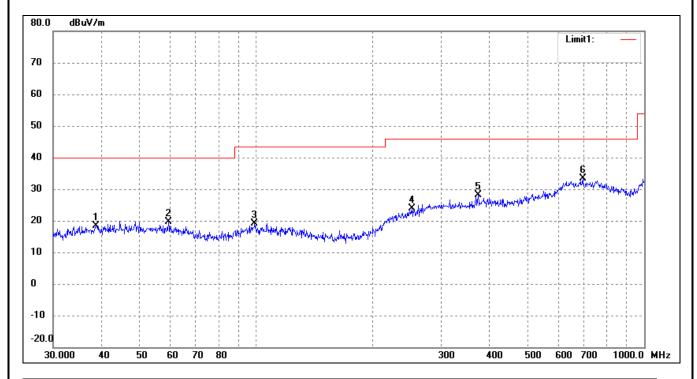
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Antenna Position: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	38.6161	13.71	4.72	18.43	40.00	-21.57	233	100	
2	59.4405	14.70	5.02	19.72	40.00	-20.28	326	100	
3	99.1797	14.37	4.81	19.18	43.50	-24.32	104	100	
4	252.0627	14.53	9.38	23.91	46.00	-22.09	176	100	
5	373.3112	16.27	11.84	28.11	46.00	-17.89	207	100	
6	694.4174	15.72	17.61	33.33	46.00	-12.67	299	100	

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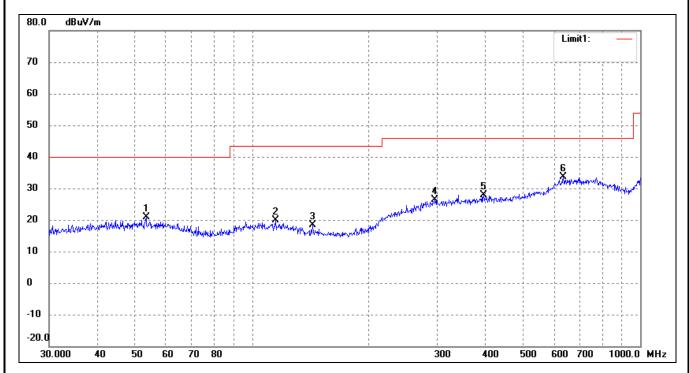


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Operating Condition: Antenna Position: 802.11b Transmitting High Channel-2462MHz (Worst case)

Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	53.3179	15.84	5.05	20.89	40.00	-19.11	360	100	
2	114.9169	15.13	4.85	19.98	43.50	-23.52	117	100	
3	143.3261	15.43	3.03	18.46	43.50	-25.04	75	100	
4	296.1836	14.64	11.81	26.45	46.00	-19.55	261	100	
5	394.8545	15.54	12.46	28.00	46.00	-18.00	206	100	
6	633.9073	15.71	17.86	33.57	46.00	-12.43	322	100	

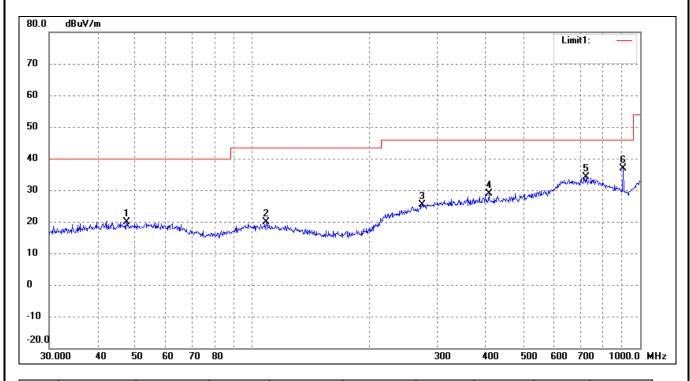
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Antenna Position: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	47.4918	14.92	4.96	19.88	40.00	-20.12	175	100	
2	108.6470	14.93	4.87	19.80	43.50	-23.70	228	100	
3	274.1939	14.57	10.72	25.29	46.00	-20.71	109	100	
4	407.5145	16.55	12.38	28.93	46.00	-17.07	88	100	
5	724.2611	16.13	18.07	34.20	46.00	-11.80	164	100	
6	903.3094	21.91	15.01	36.92	46.00	-9.08	247	100	

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Radiated Spurious Emissions Above 1GHz Test Mode: 802.11b (Worst case)

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channe	el-2412MHz						
4824.000	67.15	-3.87	63.28	74	-10.72	Н	PK
4824.000	52.86	-3.87	48.99	54	-5.01	Н	AV
7236.000	65.77	1.14	66.91	74	-7.09	Н	PK
7236.000	47.34	1.19	48.53	54	-5.47	Н	AV
4824.000	67.07	-3.86	63.21	74	-10.79	V	PK
4824.000	52.50	-3.86	48.64	54	-5.36	V	AV
7236.000	65.09	1.1	66.19	74	-7.81	V	PK
7236.000	46.69	1.1	47.79	54	-6.21	V	AV
Middle Char	nnel-2437MHz	Z					
4874.000	65.96	-3.74	62.22	74	-11.78	Н	PK
4874.000	51.73	-3.74	47.99	54	-6.01	Н	AV
7311.000	66.73	1.47	68.20	74	-5.80	Н	PK
7311.000	48.75	1.47	50.22	54	-3.78	Н	AV
4874.000	65.50	-3.74	61.76	74	-12.24	V	PK
4874.000	52.74	-3.74	49.00	54	-5.00	V	AV
7311.000	68.38	1.47	69.85	74	-4.15	V	PK
7311.000	46.34	1.47	47.81	54	-6.19	V	AV
High Chann	el-2462MHz						
4924.000	67.53	-3.59	63.94	74	-10.06	Н	PK
4924.000	51.43	-3.59	47.84	54	-6.16	Н	AV
7386.000	66.18	1.79	67.97	74	-6.03	Н	PK
7386.000	48.10	1.79	49.89	54	-4.11	Н	AV
4924.000	66.90	-3.59	63.31	74	-10.69	V	PK
4924.000	50.31	-3.59	46.72	54	-7.28	V	AV
7386.000	67.12	1.79	68.91	74	-5.09	V	PK
7386.000	46.10	1.79	47.89	54	-6.11	V	AV

Note.

- 1, The EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.
- 2, Testing is carried out with frequency rang 9kHz to the tenth harmonics.
- 3, Only the worst case were shown in this test report and the worst case test mode is 802.11b.
- 4, The margin is greater than 20 dB are not shown in this Appendix.

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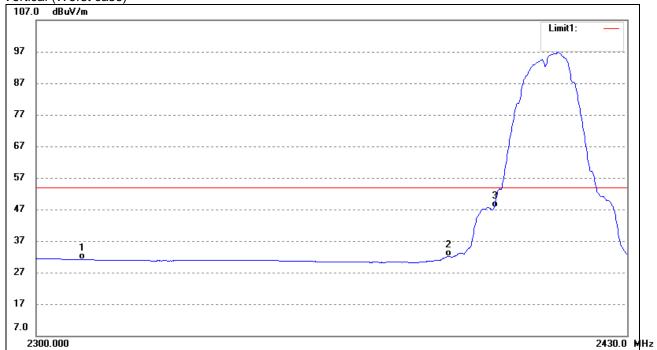


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5.2 Bandedge

802.11b-Lowest Bandedge

Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	34.46	-3.35	31.11	54.00	-22.89	Average Detector
2	2310.000	46.64	-3.35	43.29	74.00	-30.71	Peak Detector
3	2390.000	36.40	-4.29	32.11	54.00	-21.89	Average Detector
4	2390.000	47.86	-4.29	43.57	74.00	-30.43	Peak Detector
5	2400.000	52.03	-4.40	47.63	54.00	-6.37	Average Detector
6	2400.000	61.22	-4.40	56.82	74.00	-17.18	Peak Detector
7	2414.418	101.21	-4.44	96.77	/	/	Average Detector
8	2413.091	105.72	-4.44	101.28	/	/	Peak Detector

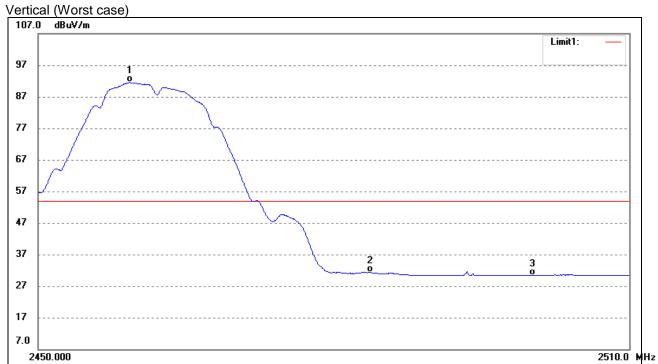
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802.11b-Highest Bandedge



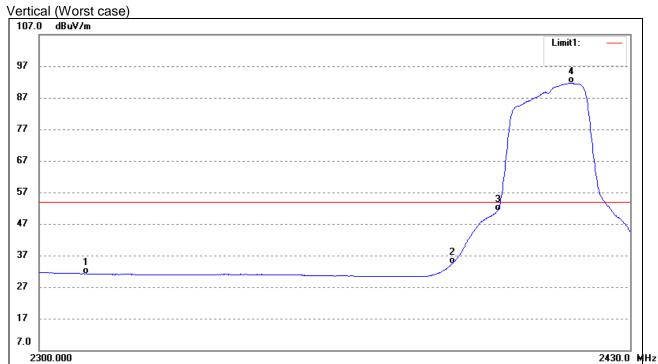
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2459.205	95.90	-4.39	91.51	/	/	Average Detector
2	2460.455	99.82	-4.38	95.44	/	/	Peak Detector
3	2483.500	35.69	-4.36	31.33	54.00	-22.67	Average Detector
4	2483.500	47.62	-4.36	43.26	74.00	-30.74	Peak Detector
5	2500.000	34.79	-4.34	30.45	54.00	-23.55	Average Detector
6	2500.000	47.10	-4.34	42.76	74.00	-31.24	Peak Detector

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802.11g-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	34.60	-3.35	31.25	54.00	-22.75	Average Detector
2	2310.000	46.19	-3.35	42.84	74.00	-31.16	Peak Detector
3	2390.000	38.74	-4.29	34.45	54.00	-19.55	Average Detector
4	2390.000	51.38	-4.29	47.09	74.00	-26.91	Peak Detector
5	2400.000	55.53	-4.40	51.13	54.00	-2.87	Average Detector
6	2400.000	70.13	-4.40	65.73	74.00	-8.27	Peak Detector
7	2416.676	96.12	-4.43	91.69	/	/	Average Detector
8	2417.340	105.00	-4.43	100.57	/	/	Peak Detector

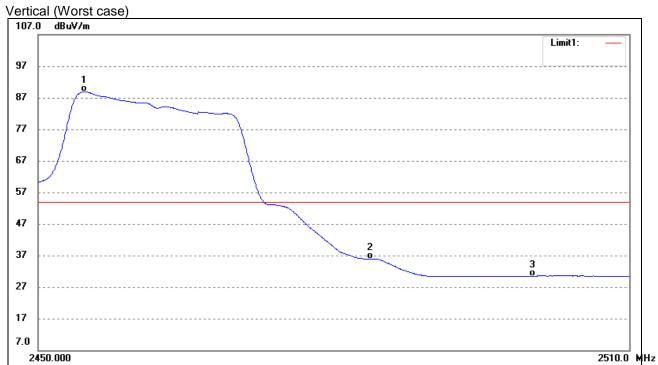
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802.11g-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2454.628	93.22	-4.39	88.83	/	/	Average Detector
2	2454.747	102.02	-4.39	97.63	/	/	Peak Detector
3	2483.500	40.34	-4.36	35.98	54.00	-18.02	Average Detector
4	2483.500	49.81	-4.36	45.45	74.00	-28.55	Peak Detector
5	2500.000	34.81	-4.34	30.47	54.00	-23.53	Average Detector
6	2500.000	46.41	-4.34	42.07	74.00	-31.93	Peak Detector

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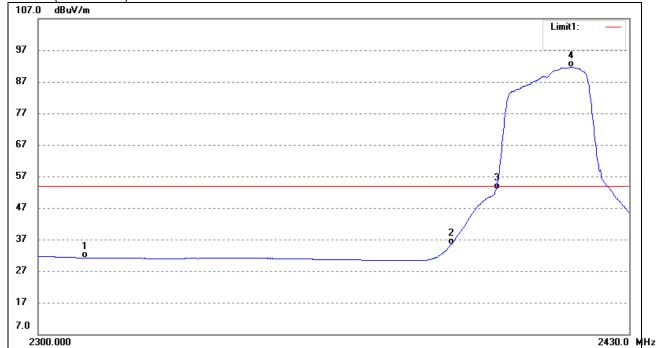


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802.11n-HT20-Lowest Bandedge

Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	34.57	-3.35	31.22	54.00	-22.78	Average Detector
2	2310.000	46.23	-3.35	42.88	74.00	-31.12	Peak Detector
3	2390.000	39.77	-4.29	35.48	54.00	-18.52	Average Detector
4	2390.000	58.09	-4.29	53.80	74.00	-20.20	Peak Detector
5	2400.000	57.27	-4.40	52.87	54.00	-1.13	Average Detector
6	2400.000	71.09	-4.40	66.69	74.00	-7.31	Peak Detector
7	2416.942	96.18	-4.43	91.75	/	1	Average Detector
8	2417.208	105.55	-4.43	101.12	/	1	Peak Detector

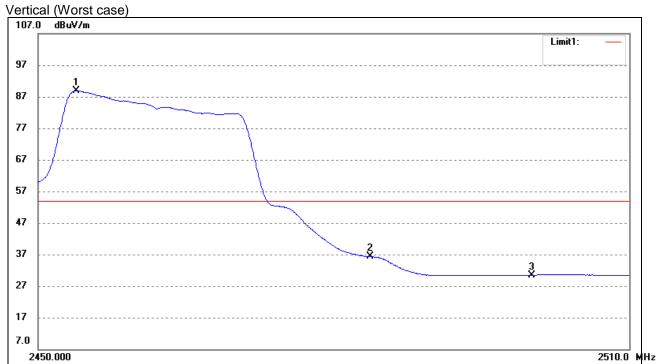
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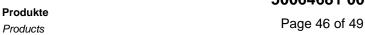


802.11n-HT20-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2453.856	93.39	-4.39	89.00	/	/	Average Detector
2	2454.272	102.45	-4.39	98.06	/	/	Peak Detector
3	2483.500	40.68	-4.36	36.32	54.00	-17.68	Average Detector
4	2483.500	51.90	-4.36	47.54	74.00	-26.46	Peak Detector
5	2500.000	34.80	-4.34	30.46	54.00	-23.54	Average Detector
6	2500.000	45.85	-4.34	41.51	74.00	-32.49	Peak Detector

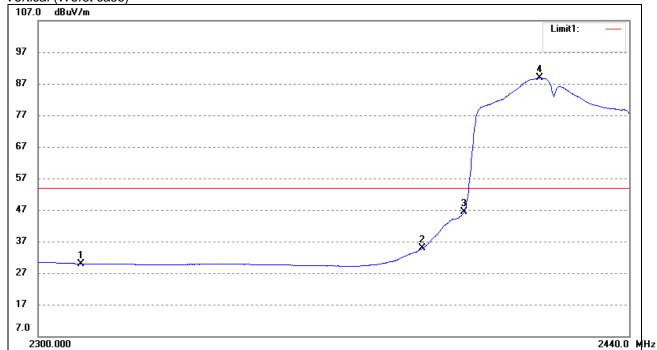
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802.11n-HT40-Lowest Bandedge

Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	33.30	-3.35	29.95	54.00	-24.05	Average Detector
2	2310.000	45.14	-3.35	41.79	74.00	-32.21	Peak Detector
3	2390.000	39.14	-4.29	34.85	54.00	-19.15	Average Detector
4	2390.000	57.08	-4.29	52.79	74.00	-21.21	Peak Detector
5	2400.000	50.89	-4.40	46.49	54.00	-7.51	Average Detector
6	2400.000	66.97	-4.40	62.57	74.00	-11.43	Peak Detector
7	2418.326	93.22	-4.43	88.79	/	/	Average Detector
8	2419.184	104.10	-4.43	99.67	/	/	Peak Detector

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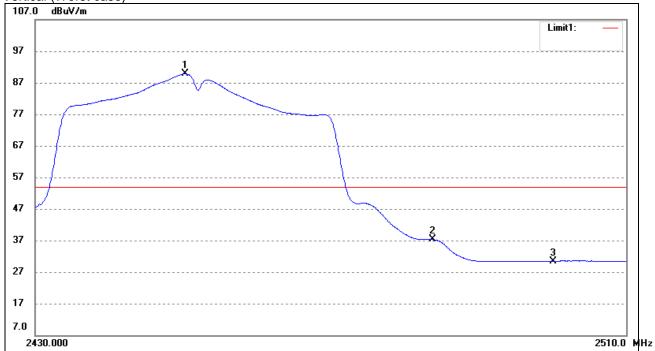


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802.11n-HT40-Highest Bandedge

Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2450.075	94.25	-4.40	89.85	/	/	Average Detector
2	2449.440	103.31	-4.40	98.91	/	/	Peak Detector
3	2483.500	41.63	-4.36	37.27	54.00	-16.73	Average Detector
4	2483.500	52.60	-4.36	48.24	74.00	-25.76	Peak Detector
5	2500.000	34.79	-4.34	30.45	54.00	-23.55	Average Detector
6	2500.000	45.56	-4.34	41.22	74.00	-32.78	Peak Detector

Note

- 1, The EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.
- 2, Only the worst case were shown in this test report.

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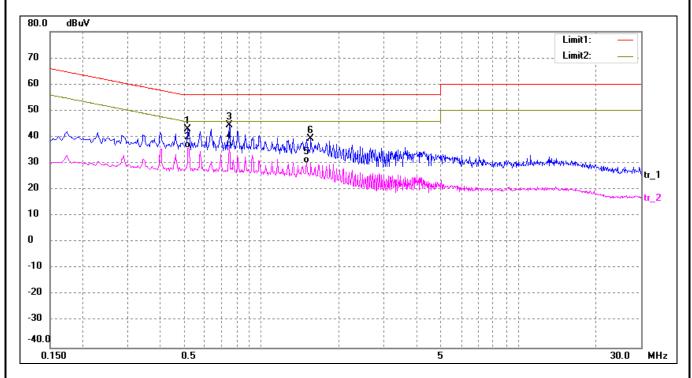
6. Conducted Emissions on AC Mains

6.1 Test Datas

EUT: Mobile Phone Tested Model: EZ-100

Operating Condition: Transmitting(Wi-Fi)

Line: Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1	0.5180	33.14	9.80	42.94	56.00	-13.06	peak
2	0.5180	26.03	9.80	35.83	46.00	-10.17	AVG
3	0.7500	34.54	9.78	44.32	56.00	-11.68	peak
*4	0.7500	26.19	9.78	35.97	46.00	-10.03	AVG
5	1.4980	20.27	9.75	30.02	46.00	-15.98	AVG
6	1.5580	29.63	9.75	39.38	56.00	-16.62	peak

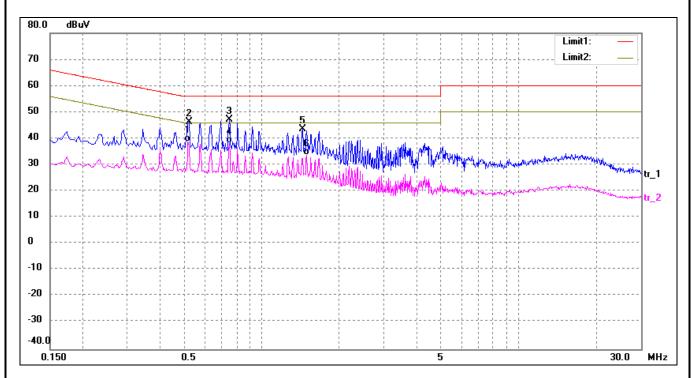
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Line: Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
*1	0.5180	28.85	9.80	38.65	46.00	-7.35	AVG
2	0.5220	36.42	9.80	46.22	56.00	-9.78	peak
3	0.7500	37.36	9.78	47.14	56.00	-8.86	peak
4	0.7500	28.41	9.78	38.19	46.00	-7.81	AVG
5	1.4420	33.66	9.75	43.41	56.00	-12.59	peak
6	1.4980	23.85	9.75	33.60	46.00	-12.40	AVG