FCC - TEST REPORT

Report Number	:	**68.950.13.112.01**	Date of Issue:	September 22, 2013

Model	:	**349765**
Product Type	:	MP7FSCT
Applicant	:	ICON Health & Fitness Inc.
Address	:	1500 South 1000 West, Logan, UT 84321, USA
Production Facility	:	Wanlida Group Co., Ltd.
Address	:	Wanlida Industry Zone, Nanjing, Fujian, China 363601

Test Result	:	■ **Positive** ☐ **Negative**
Total pages including Appendices	:	25

Jiangsu TÜV Product Service Ltd. Shenzhen Branch is a subcontractor to TÜV SÜD Product Service GmbH according to the principles outlined in ISO 17025.

Jiangsu TÜV Product Service Ltd. Shenzhen Branch reports apply only to the specific samples tested under stated test conditions. Construction of the actual test samples has been documented. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. The manufacturer/importer is responsible to the Competent Authorities in Europe for any modifications made to the production units which result in non-compliance to the relevant regulations. Jiangsu TÜV Product Service Ltd. Shenzhen Branch shall have no liability for any deductions, inferences or generalizations drawn by the client or others from Jiangsu TÜV Product Service Ltd. Shenzhen Branch issued reports.

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6 floor, H Hall, Culture Creative Park, No. 4001, Fuqiang Road, Futian District, Shenzhen 518048, P. R. China, Tel. +86 755 8828 6998, Fax: +86 755 8828 5299

1 Table of Content

Jiangsu TÜV Product Service Ltd. Shenzhen Branch
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2 Details about the Test Laboratory

Details about the Test Laboratory

Test site1:

Company name: Jiangsu TÜV Product Service Ltd. Shenzhen Branch
6th Floor, H Hall,
Culture Creative Park,
No. 4001, Fuqiang Road,
Futian District 518048,
Shenzhen,P.R.C.

Telephone: 86 755 8828 6998
Fax: 86 755 8828 5299

Test site2:

Company name: WALTEK SERVICES(SHENZHEN) CO.,LTD.
1/F,Fukangkai Building, West Baima Rd, Songgang Street, Baoan District,
Shenzhen, Guangdong, P. R. China

Telephone: 86-755-83551033
Fax: 86-755-83552400

3 Description of the Equipment Under Test

Description of the Equipment Under Test

Product: MP7FSCT

Model no.: 349765

Options and accessories: NIL

Rating: DC 12V
Powered by external power supply:
Adaptor Input: 100-240VAC, 50/60Hz
Adaptor Output: 12VDC

Antenna: Unique Antenna, NOT accessible by end user
Max. Gain: 1dBi

RF Transmission Frequency: 2412-2462MHz

Description of the EUT: NIL

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenovo	T400	----

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4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C, Intentional Radiators, 10-1-12 Edition	PART 15 – RADIO FREQUENCY DEVICES Subpart C – Intentional Radiators

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5 Summary of Test Results

Technical Requirements					
FCC Part 15 Subpart C 10-1-12 Edition					
Test Condition	Pages	Test Result			Test Location
		Pass	Fail	N/A	
15.207 Conducted Emission AC Power Port	8	☒	☐	☐	Test Site2
15.247 (b) (1) Conducted peak output power	11	☒	☐	☐	Test Site2
15.247(d) Band edge compliance of RF emissions	---	☐	☐	☒	Test Site2
15.247(d) Spurious RF conducted emissions	---	☐	☐	☒	Test Site2
15.247(d) & 15.209 Spurious radiated emissions for transmitter	12	☒	☐	☐	Test Site2
15.247(a)(2) 6dB bandwidth	---	☐	☐	☒	Test Site2
15.247(e) Power spectral density	---	☐	☐	☒	Test Site2

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6 General Remarks

Remarks

This submittal(s) (test report) is intended for the Class 2 permissive change of FCC ID: OMC339918 to comply with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

☐ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

☐ - **Does not** fulfill the general approval requirements.

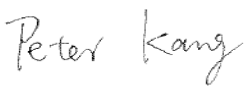
Sample Received Date: 10 September 2013

Testing Start Date: 12 September 2013

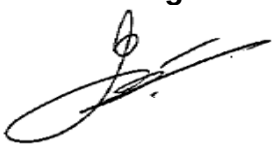
Testing End Date: 17 September 2013

- Jiangsu TÜV Product Service Ltd. Shenzhen Branch -

Tested By	**2013-09-22**	**Caidy Cai**	
EMC Test Engineer	**Date**	**Name**	**Signature**



Prepared By	**2013-09-22**	**Peter Kang**	
EMC Project Engineer	**Date**	**Name**	**Signature**



Approved by	**2013-09-22**	**Ken Li**	
EMC Project Manager	**Date**	**Name**	**Signature**

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7 Technical Requirement

7.1 Conducted Emission

Test Method

1 The EUT was placed on a table, which is 0.8m above ground plane
2 The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3 Maximum procedure was performed to ensure EUT compliance
4 A EMI test receiver is used to test the emissions from both sides of AC line

Limit

Frequency MHz	QP Limit dBµV	AV Limit dBµV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

"*"Decreasing linearly with logarithm of the frequency

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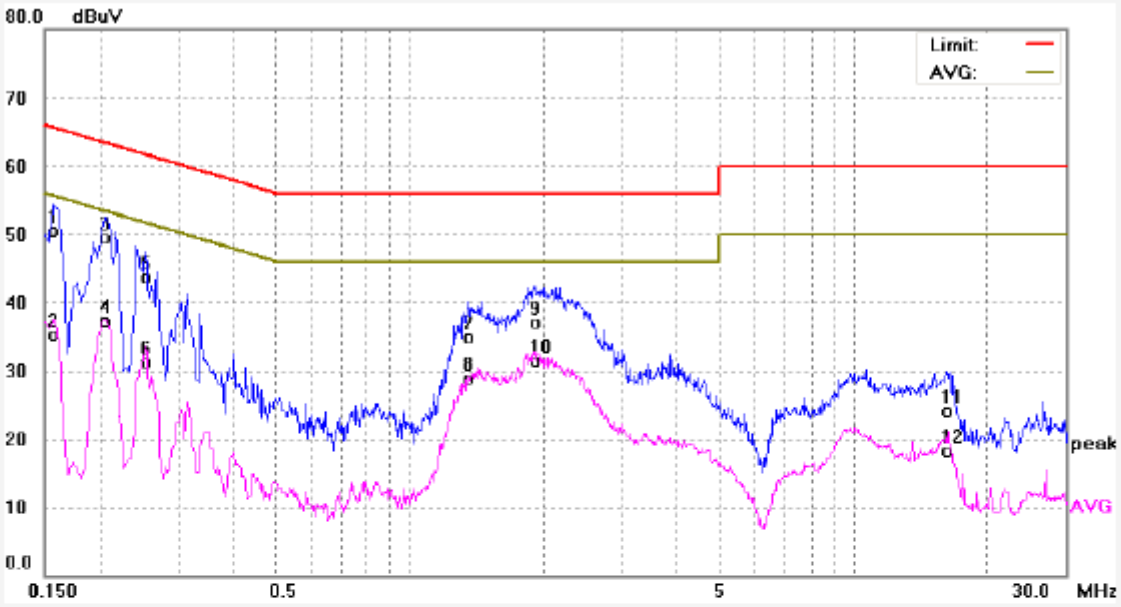
Conducted Emission

EUT: 349765
Op Cond: Wifi On
Test Spec: L
Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1580	40.79	9.81	50.60	65.56	-14.96	QP	
2	0.1580	25.40	9.81	35.21	55.56	-20.35	AVG	
3	0.2060	39.66	9.84	49.50	63.36	-13.86	QP	
4	0.2060	27.47	9.84	37.31	53.36	-16.05	AVG	
5	0.2540	33.89	9.86	43.75	61.62	-17.87	QP	
6	0.2540	21.36	9.86	31.22	51.62	-20.40	AVG	
7	1.3540	24.95	10.00	34.95	56.00	-21.05	QP	
8	1.3540	18.81	10.00	28.81	46.00	-17.19	AVG	
9	1.9140	27.15	10.00	37.15	56.00	-18.85	QP	
10	1.9140	21.43	10.00	31.43	46.00	-14.57	AVG	
11	16.2180	13.20	10.97	24.17	60.00	-35.83	QP	
12	16.2180	7.25	10.97	18.22	50.00	-31.78	AVG	

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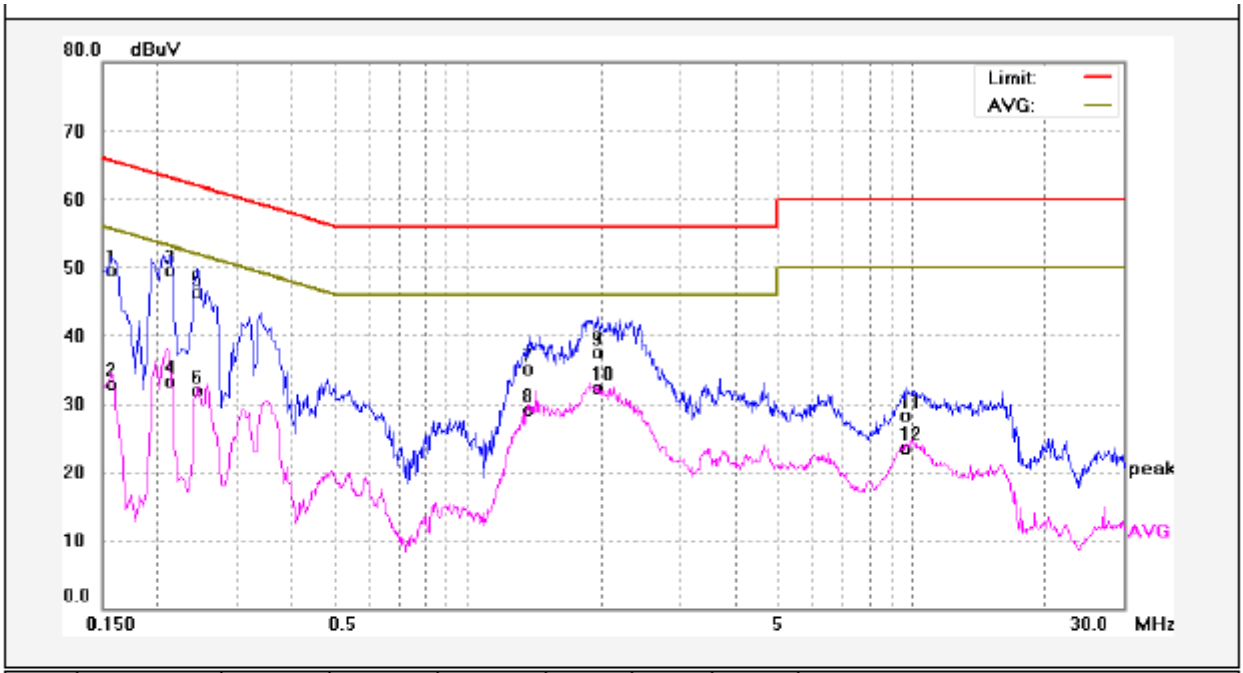
Conducted Emission

EUT: 349765
Op Cond: Wifi On and LAN Port On
Test Spec: N
Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1580	39.77	9.81	49.58	65.56	-15.98	QP	
2	0.1580	23.03	9.81	32.84	55.56	-22.72	AVG	
3	0.2140	39.62	9.84	49.46	63.04	-13.58	QP	
4	0.2140	23.40	9.84	33.24	53.04	-19.80	AVG	
5	0.2460	36.45	9.85	46.30	61.89	-15.59	QP	
6	0.2460	22.09	9.85	31.94	51.89	-19.95	AVG	
7	1.3740	25.09	10.00	35.09	56.00	-20.91	QP	
8	1.3740	19.14	10.00	29.14	46.00	-16.86	AVG	
9	1.9500	27.47	10.00	37.47	56.00	-18.53	QP	
10	1.9500	22.23	10.00	32.23	46.00	-13.77	AVG	
11	9.6700	17.83	10.48	28.31	60.00	-31.69	QP	
12	9.6700	12.98	10.48	23.46	50.00	-26.54	AVG	

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7.2 Conducted peak output power

Test Method
The transmitter output is connected to the Spectrum analyzer. The Spectrum analyzer is set to the peak power detection.

Limits for conducted peak output power measurements

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30

Conducted peak output power

WIFI Mode IEEE 802.11b modulation (1Mbps) Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
CH1 2412MHz	16.10	Pass
CH6 2437MHz	16.98	Pass
CH11 2462MHz	16.51	Pass

WIFI Mode IEEE 802.11g modulation (6Mbps) Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
CH1 2412MHz	21.40	Pass
CH6 2437MHz	20.06	Pass
CH11 2462MHz	18.73	Pass

WIFI Mode IEEE 802.11n HT20 modulation (6.5Mbps) Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
CH1 2412MHz	21.11	Pass
CH6 2437MHz	20.33	Pass
CH11 2462MHz	20.63	Pass

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7.3 Spurious radiated emissions for transmitter

Test Method

1 The EUT is placed on a turntable, which is 0.8m above ground plane.
2 The turntable shall be rotated for 360 degrees to determine the position of maximum emission level
3 EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4 Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5 Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

Limit

Frequency MHz	Field Strength uV/m	Field Strength dBµV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

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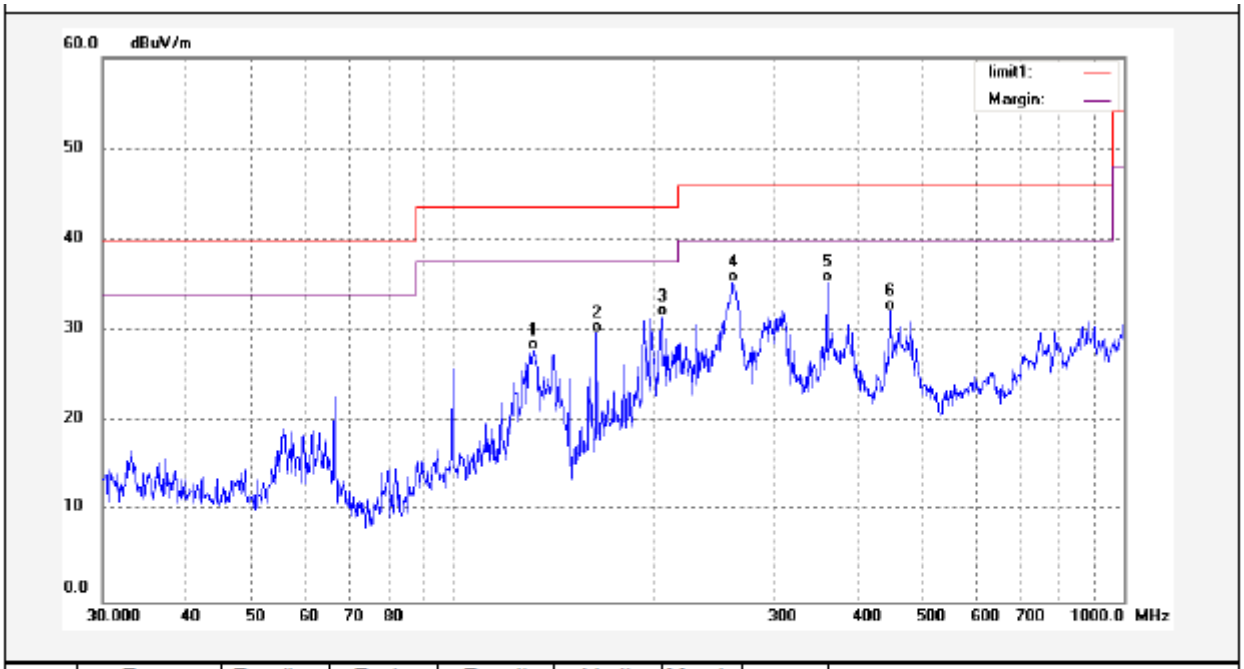
Transmitter Spurious radiated emissions

EUT: 349765
Op Cond: 802.11b Low Channel
Test Spec: Horizontal
Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	131.6855	16.42	11.43	27.85	43.50	-15.65	QP	
2	163.7366	18.64	11.20	29.84	43.50	-13.66	QP	
3	205.0243	19.23	12.41	31.64	43.50	-11.86	QP	
4	261.2730	19.76	15.63	35.39	46.00	-10.61	QP	
5	360.9775	16.31	19.02	35.33	46.00	-10.67	QP	
6	448.8361	11.63	20.48	32.11	46.00	-13.89	QP	

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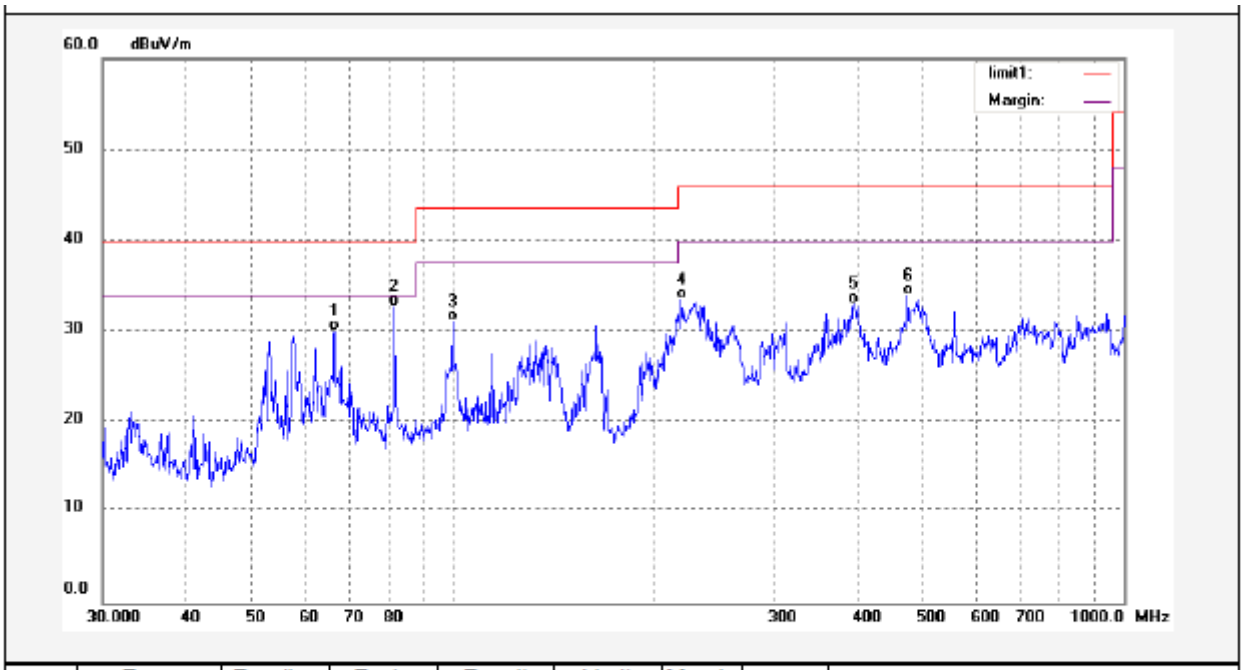
Transmitter Spurious radiated emissions

EUT: 349765
Op Cond: 802.11b Low Channel
Test Spec: Vertical
Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	66.6051	18.75	11.34	30.09	40.00	-9.91	QP	
2	81.9477	22.80	9.95	32.75	40.00	-7.25	QP	
3	99.7676	16.96	14.12	31.08	43.50	-12.42	QP	
4	218.4098	20.96	12.60	33.56	46.00	-12.44	QP	
5	395.5071	12.79	20.24	33.03	46.00	-12.97	QP	
6	474.7913	13.25	20.79	34.04	46.00	-11.96	QP	

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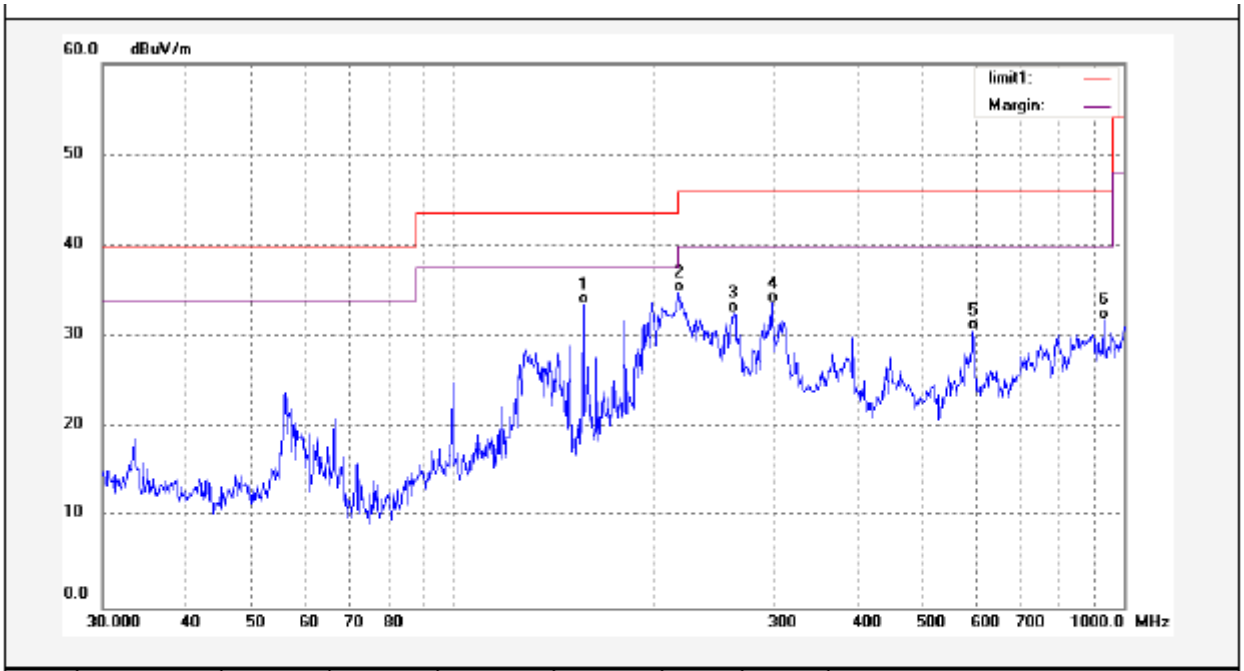
Transmitter Spurious radiated emissions

EUT: 349765
Op Cond: 802.11b Middle Channel
Test Spec: Horizontal
Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	156.4259	22.55	10.91	33.46	43.50	-10.04	QP	
2	216.1197	22.41	12.52	34.93	46.00	-11.07	QP	
3	262.1926	17.08	15.60	32.68	46.00	-13.32	QP	
4	298.5932	17.66	16.05	33.71	46.00	-12.29	QP	
5	594.5143	7.10	23.50	30.60	46.00	-15.40	QP	
6	935.4214	5.04	26.80	31.84	46.00	-14.16	QP	

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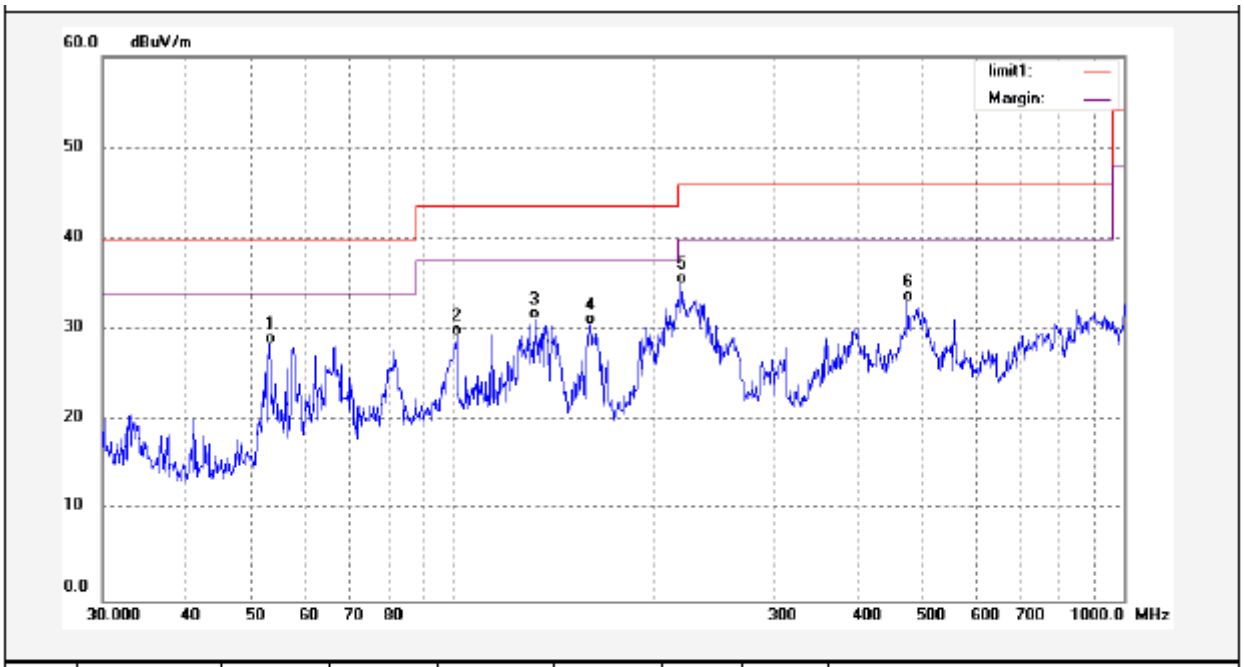
Transmitter Spurious radiated emissions

EUT: 349765
Op Cond: 802.11b Middle Channel
Test Spec: Vertical
Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	53.1922	15.96	12.44	28.40	40.00	-11.60	QP	
2	101.1797	15.06	14.21	29.27	43.50	-14.23	QP	
3	132.1489	19.64	11.42	31.06	43.50	-12.44	QP	
4	159.7586	19.47	11.08	30.55	43.50	-12.95	QP	
5	218.4098	22.46	12.60	35.06	46.00	-10.94	QP	
6	474.7913	12.25	20.79	33.04	46.00	-12.96	QP	

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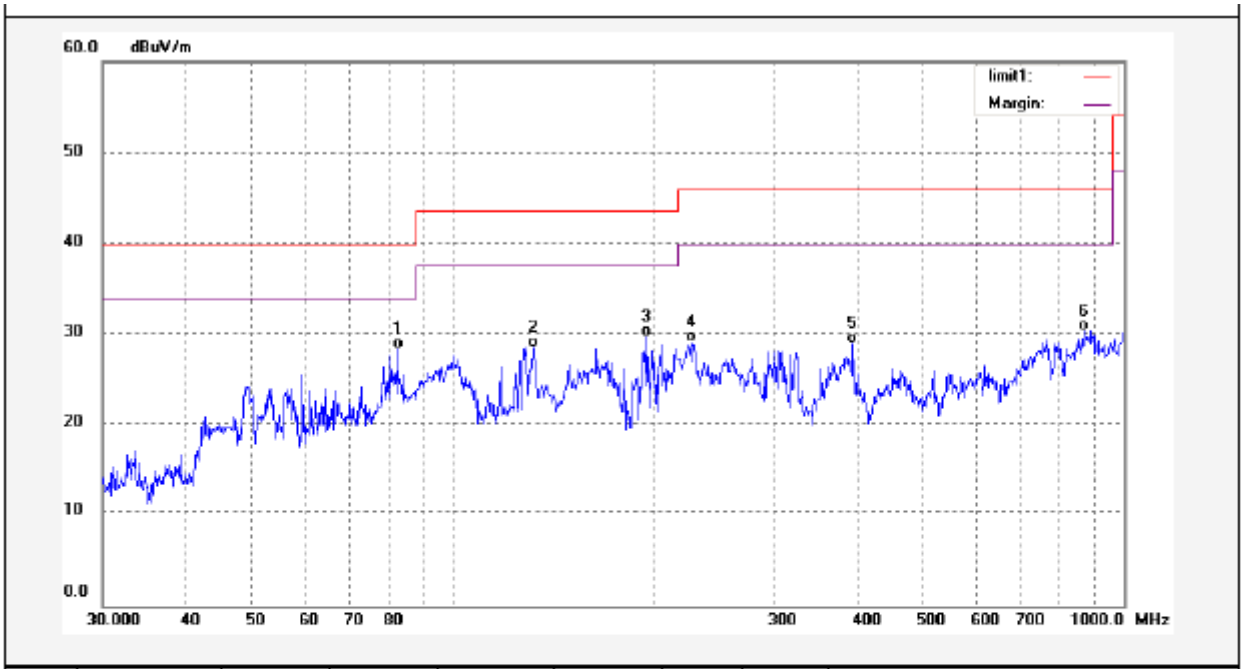
Transmitter Spurious radiated emissions

EUT: 349765
Op Cond: 802.11b High Channel
Test Spec: Horizontal
Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	82.8162	18.32	10.15	28.47	40.00	-11.53	QP	
2	131.6855	17.20	11.43	28.63	43.50	-14.87	QP	
3	193.8163	17.39	12.36	29.75	43.50	-13.75	QP	
4	227.0164	15.61	13.52	29.13	46.00	-16.87	QP	
5	394.1199	8.88	20.20	29.08	46.00	-16.92	QP	
6	871.9442	2.01	28.42	30.43	46.00	-15.57	QP	

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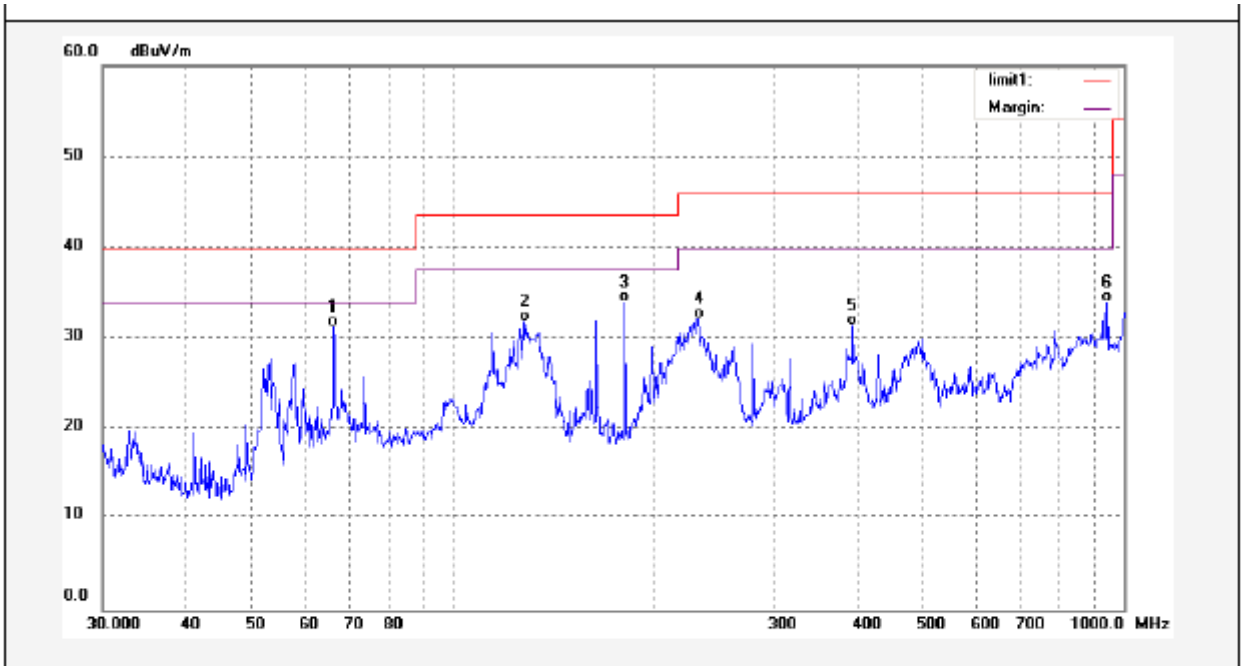
Transmitter Spurious radiated emissions

EUT: 349765
Op Cond: 802.11b High Channel
Test Spec: Vertical
Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	66.3714	19.86	11.43	31.29	40.00	-8.71	QP	
2	127.5865	20.42	11.51	31.93	43.50	-11.57	QP	
3	180.0304	23.76	10.19	33.95	43.50	-9.55	QP	
4	231.8531	17.83	14.40	32.23	46.00	-13.77	QP	
5	394.1199	11.26	20.20	31.46	46.00	-14.54	QP	
6	945.3336	7.04	26.94	33.98	46.00	-12.02	QP	

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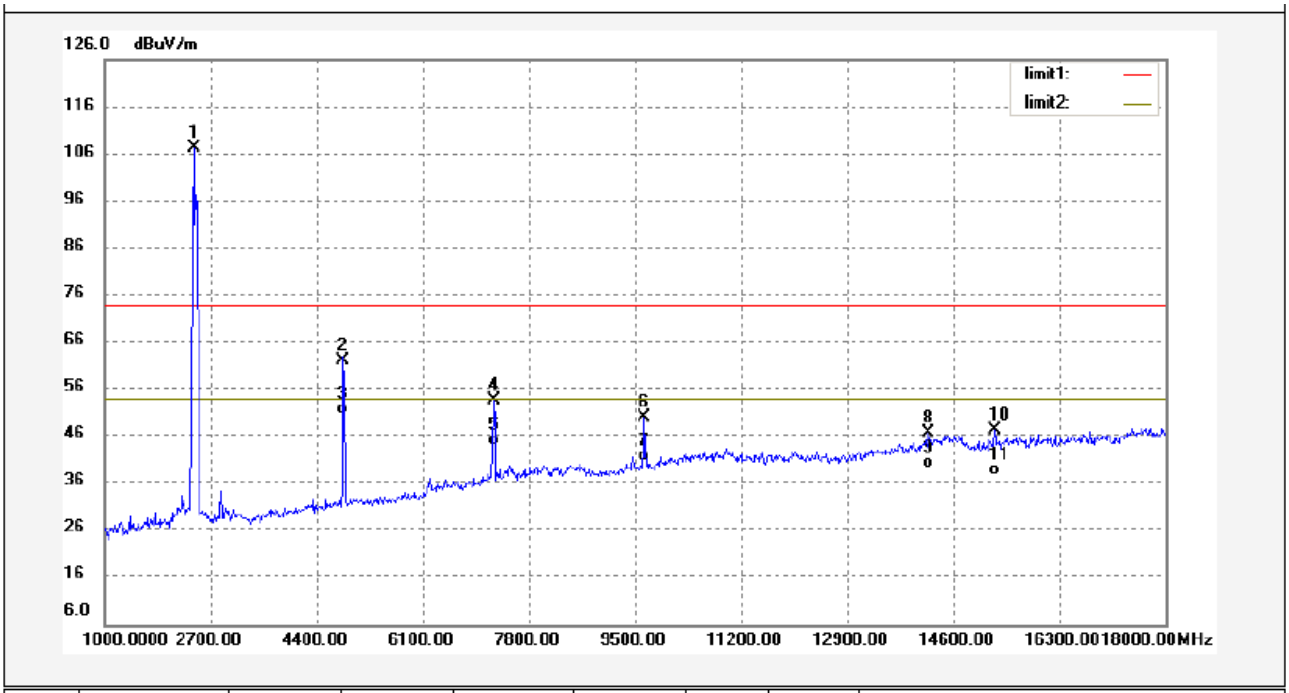
Transmitter Spurious radiated emissions

EUT: 349765
Op Cond: 802.11b Low Channel
Test Spec: Horizontal
Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2412.000	122.74	-15.61	107.13	74.00	33.13	peak	
2	4824.000	74.17	-11.96	62.21	74.00	-11.79	peak	
3	4824.000	62.88	-11.96	50.92	54.00	-3.08	AVG	
4	7236.000	60.96	-7.17	53.79	74.00	-20.21	peak	
5	7236.000	51.54	-7.17	44.37	54.00	-9.63	AVG	
6	9653.000	55.95	-5.65	50.30	74.00	-23.70	peak	
7	9653.000	46.47	-5.65	40.82	54.00	-13.18	AVG	
8	14209.000	47.09	-0.06	47.03	74.00	-26.97	peak	
9	14209.000	39.58	-0.06	39.52	54.00	-14.48	AVG	
10	15263.000	49.77	-2.27	47.50	74.00	-26.50	peak	
11	15263.000	40.12	-2.27	37.85	54.00	-16.15	AVG	

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Transmitter Spurious radiated emissions

EUT: 349765
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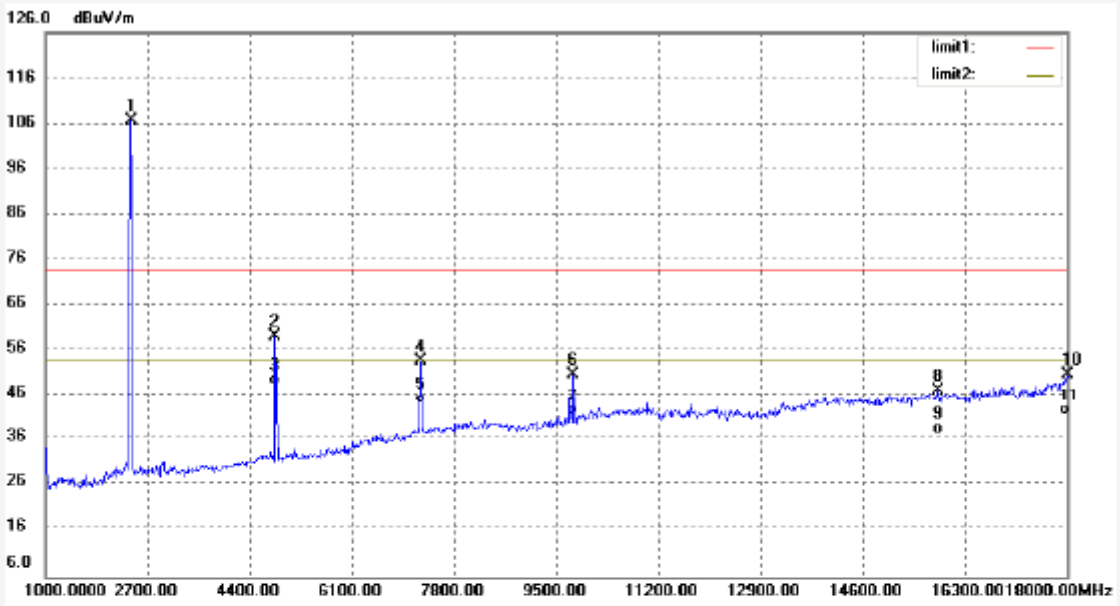
Test Spec: Vertical
Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2412.000	122.40	-15.61	106.79	74.00	32.79	peak	
2	4824.000	71.32	-11.96	59.36	74.00	-14.64	peak	
3	4824.000	60.48	-11.96	48.52	54.00	-5.48	AVG	
4	7236.000	60.87	-7.17	53.70	74.00	-20.30	peak	
5	7236.000	51.57	-7.17	44.40	54.00	-9.60	AVG	
6	9789.000	56.20	-5.23	50.97	74.00	-23.03	peak	
7	9789.000	46.78	-5.23	41.55	54.00	-12.45	AVG	
8	15858.000	50.88	-3.74	47.14	74.00	-26.86	peak	
9	15858.000	41.02	-3.74	37.28	54.00	-16.72	AVG	
10	18000.000	43.84	7.08	50.92	74.00	-23.08	peak	
11	18000.000	34.58	7.08	41.66	54.00	-12.34	AVG	

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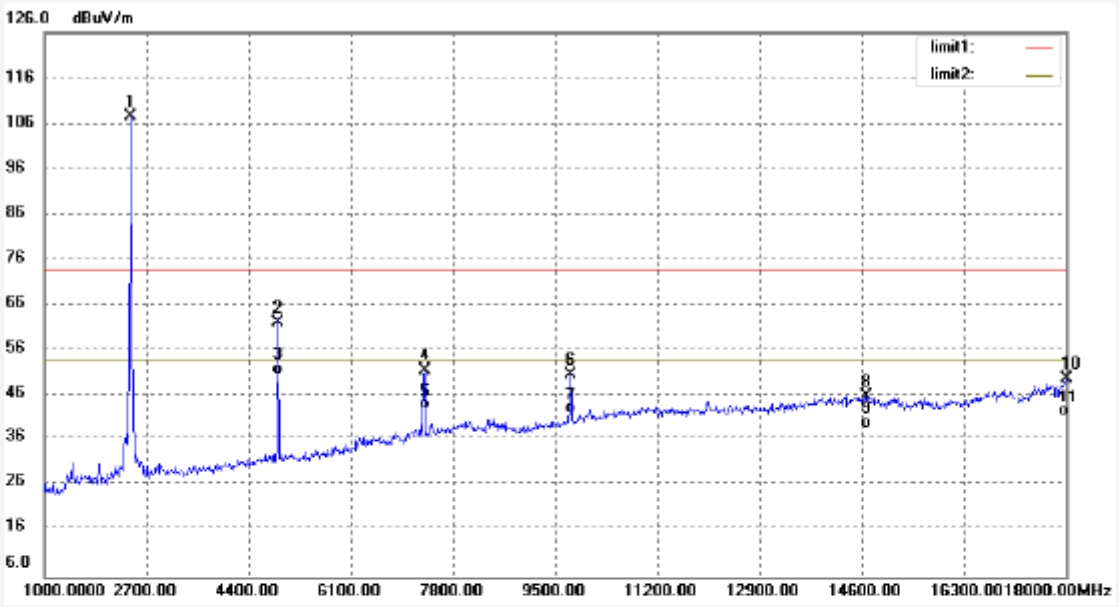
Transmitter Spurious radiated emissions

EUT: 349765
Op Cond: 802.11b Middle Channel
Test Spec: Horizontal
Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2437.000	123.38	-15.68	107.70	74.00	33.70	peak	
2	4874.000	74.20	-11.93	62.27	74.00	-11.73	peak	
3	4874.000	62.67	-11.93	50.74	54.00	-3.26	AVG	
4	7311.000	58.99	-7.13	51.86	74.00	-22.14	peak	
5	7311.000	50.01	-7.13	42.88	54.00	-11.12	AVG	
6	9755.000	56.11	-5.33	50.78	74.00	-23.22	peak	
7	9755.000	47.16	-5.33	41.83	54.00	-12.17	AVG	
8	14685.000	45.75	0.29	46.04	74.00	-27.96	peak	
9	14685.000	38.27	0.29	38.56	54.00	-15.44	AVG	
10	18000.000	43.01	7.08	50.09	74.00	-23.91	peak	
11	18000.000	34.26	7.08	41.34	54.00	-12.66	AVG	

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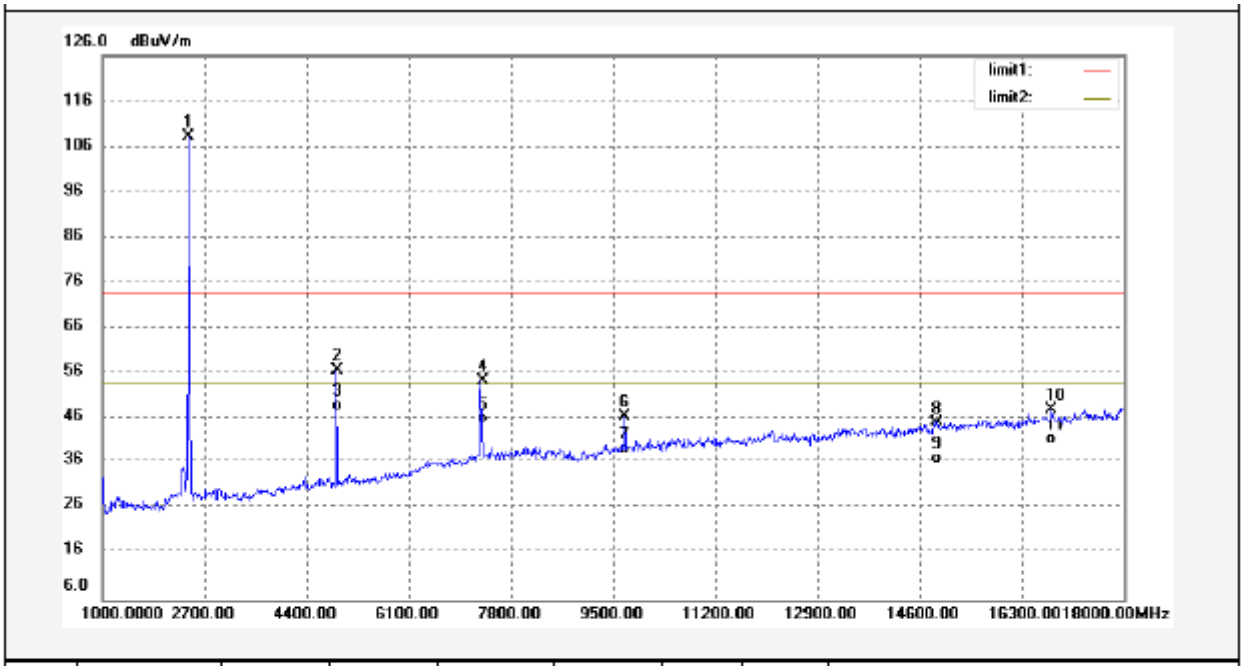
Transmitter Spurious radiated emissions

EUT: 349765
Op Cond: 802.11b Middle Channel
Test Spec: Vertical
Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2437.000	123.71	-15.68	108.03	74.00	34.03	peak	
2	4894.000	68.89	-11.91	56.98	74.00	-17.02	peak	
3	4894.000	59.78	-11.91	47.87	54.00	-6.13	AVG	
4	7311.000	61.66	-7.13	54.53	74.00	-19.47	peak	
5	7311.000	52.01	-7.13	44.88	54.00	-9.12	AVG	
6	9687.000	52.21	-5.54	46.67	74.00	-27.33	peak	
7	9687.000	43.54	-5.54	38.00	54.00	-16.00	AVG	
8	14889.000	45.52	-0.49	45.03	74.00	-28.97	peak	
9	14889.000	36.45	-0.49	35.96	54.00	-18.04	AVG	
10	16793.000	48.39	-0.32	48.07	74.00	-25.93	peak	
11	16793.000	40.25	-0.32	39.93	54.00	-14.07	AVG	

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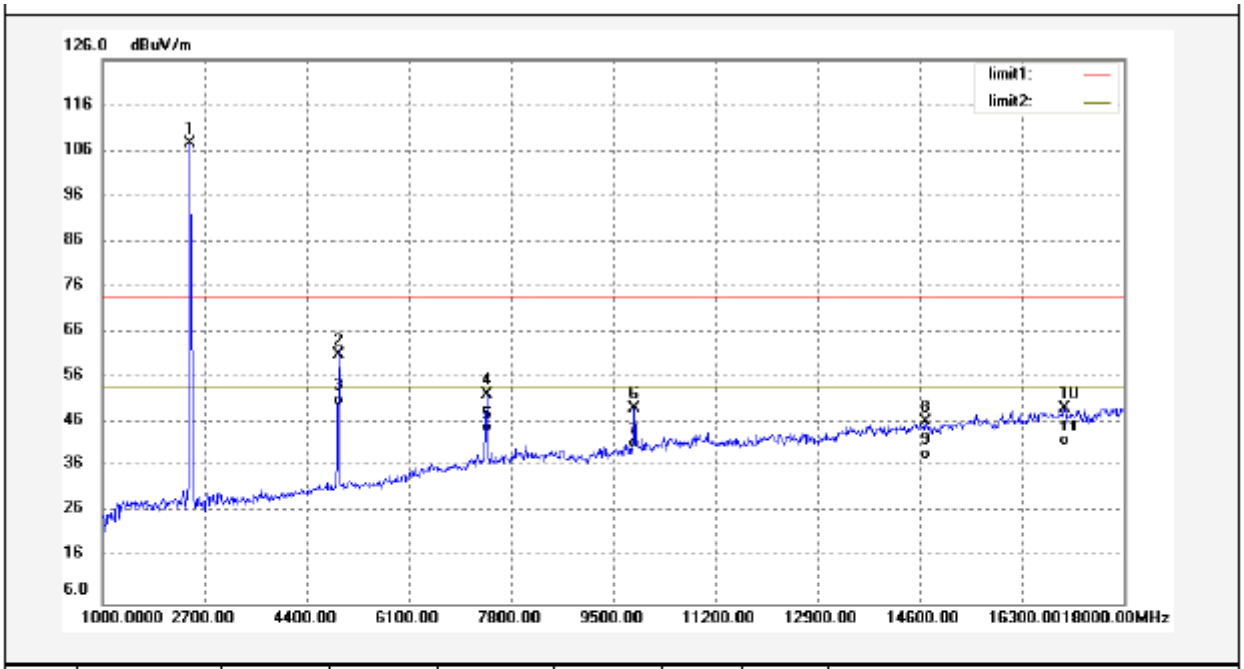
Transmitter Spurious radiated emissions

EUT: 349765
Op Cond: 802.11b High Channel
Test Spec: Horizontal
Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2462.000	123.12	-15.70	107.42	74.00	33.42	peak	
2	4924.000	72.96	-11.83	61.13	74.00	-12.87	peak	
3	4924.000	61.87	-11.83	50.04	54.00	-3.96	AVG	
4	7386.000	59.32	-7.05	52.27	74.00	-21.73	peak	
5	7386.000	50.68	-7.05	43.63	54.00	-10.37	AVG	
6	9857.000	54.49	-5.10	49.39	74.00	-24.61	peak	
7	9857.000	45.26	-5.10	40.16	54.00	-13.84	AVG	
8	14702.000	46.15	0.25	46.40	74.00	-27.60	peak	
9	14702.000	37.54	0.25	37.79	54.00	-16.21	AVG	
10	17014.000	48.99	0.45	49.44	74.00	-24.56	peak	
11	17014.000	40.21	0.45	40.66	54.00	-13.34	AVG	

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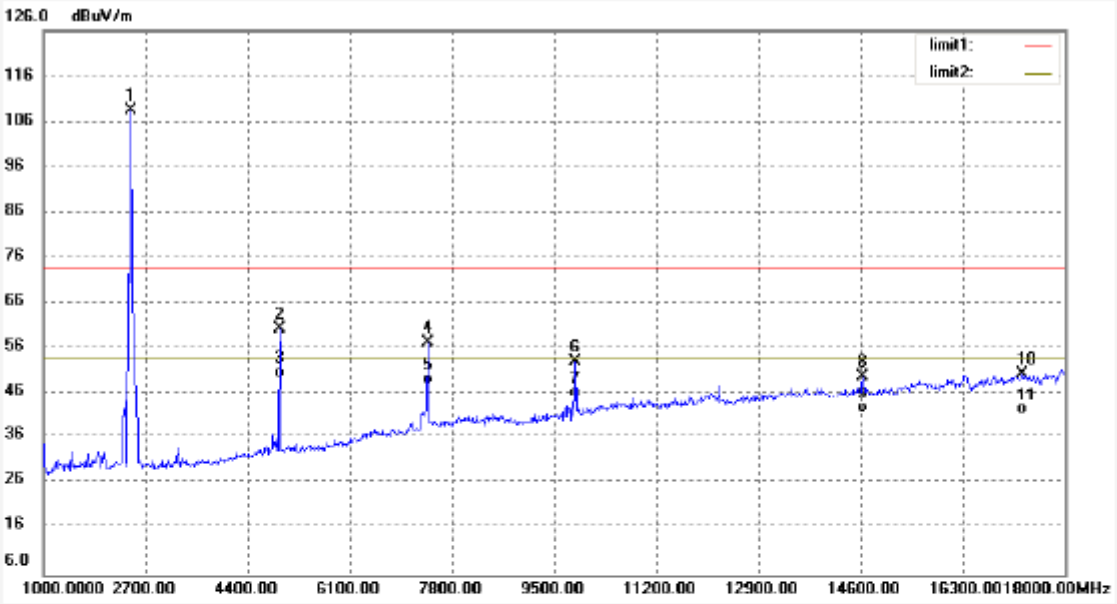
Transmitter Spurious radiated emissions

EUT: 349765
Op Cond: 802.11b High Channel
Test Spec: Vertical
Comment: 120V AC/60Hz



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2462.000	124.14	-15.70	108.44	74.00	34.44	peak	
2	4924.000	72.29	-11.83	60.46	74.00	-13.54	peak	
3	4924.000	61.57	-11.83	49.74	54.00	-4.26	AVG	
4	7386.000	64.41	-7.05	57.36	74.00	-16.64	peak	
5	7386.000	55.24	-7.05	48.19	54.00	-5.81	AVG	
6	9857.000	58.41	-5.10	53.31	74.00	-20.69	peak	
7	9857.000	50.26	-5.10	45.16	54.00	-8.84	AVG	
8	14634.000	49.59	0.39	49.98	74.00	-24.02	peak	
9	14634.000	41.02	0.39	41.41	54.00	-12.59	AVG	
10	17286.000	49.55	1.05	50.60	74.00	-23.40	peak	
11	17286.000	40.25	1.05	41.30	54.00	-12.70	AVG	

Remark1: Factor = Antenna factor + cable loss – preamplifier gain
Remark2: All modes were tested, and only worst data listed

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8 Test Equipment

TEST ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL.DUE.DATE
CE	EMI Test Receiver	R&S	ESCI	100947	Sep. 20,2013
	LISN	R&S	ENV216	101215	Sep. 20,2013
	Cable	Top	TYPE16(3.5 M)	-	Sep. 20,2013
Peak Power	EMI Test Receiver	R&S	ESCI	100947	Sep. 20,2013
RSE	EMC Analyzer	Agilent	E7405A	MY45114943	Sep. 20,2013
	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.19,2014
	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.19,2014
	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Apr.06,2014

9 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty

Items		Extended Uncertainty
RE	Field strength (dBμV/m)	U=4.38dB (30MHz-25GHz)
CE	Disturbance Voltage (dBμV)	U=3.60dB(150KHz-30MHz)

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