

Test Report No.10048870 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 10048870AppendixD)

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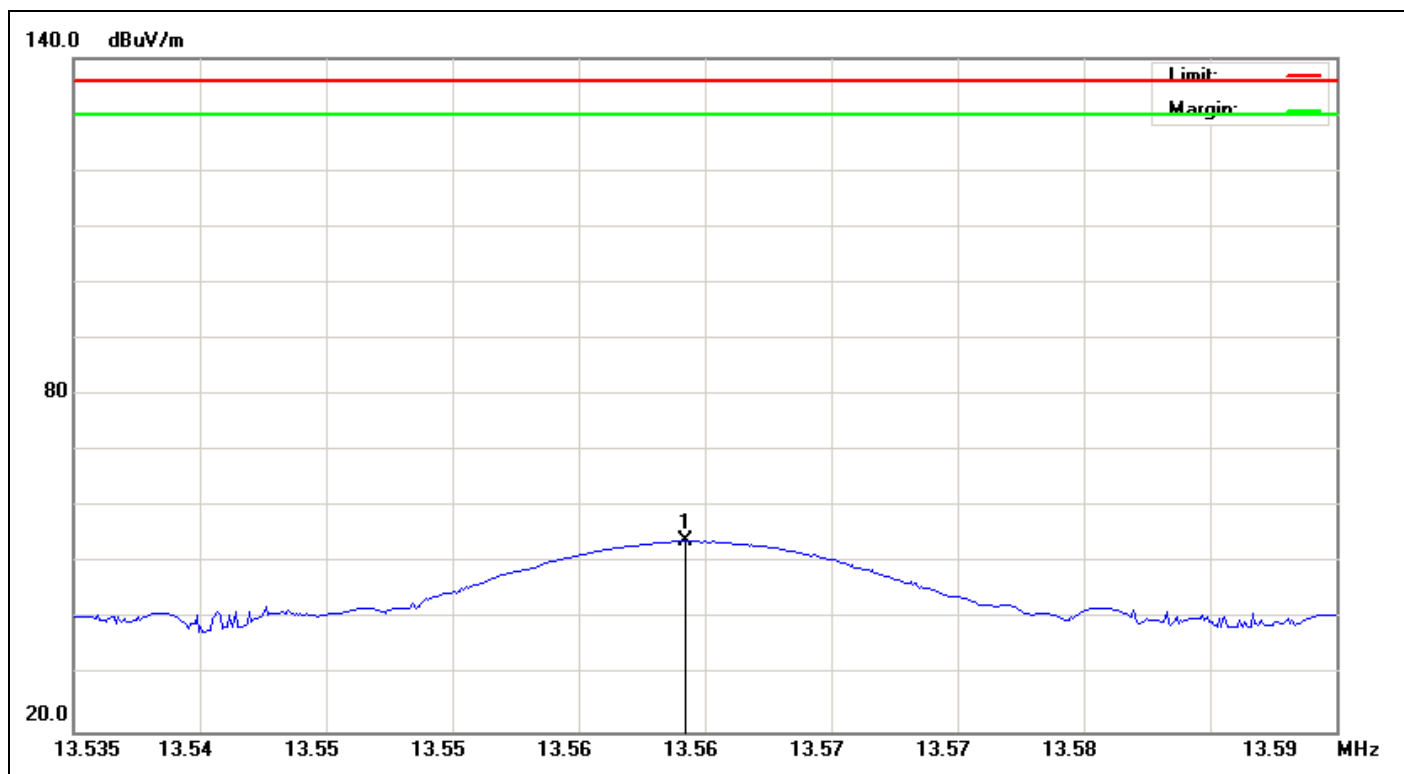
Spurious Emissions, Fundamental



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Service No.: 114027237-NCC

Test Distance: 0.5~1.2m

Test Standard: NCC_3.2_Fundamental_1.2m(dBuV/m)

Ant. Polarization: Vertical

Test item: Radiation Emission

Test Time: 2014/11/10 11:04:47

Applicant: HiTi Digital, Inc.

Test Rating: AC 110V/60Hz

Product: Printer

Temp.(°C)/Hum.(%): 21.6(°C)/55%

Model No.: P750L

Test Engineer: Hugo Chang

Test Mode: Fundamental

Remark:

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	13.5592	20.92	33.02	53.94	135.90	-81.96	QP			



Service No.: 114027237-NCC

Test Distance: 0.5~1.2m

Test Standard: FCC 15.225_Fundamental_1.2m(dBuV/m)

Ant. Polarization:

Test item: Radiation Emission

Test Time: 2014/11/10 10:55:22

Applicant: HiTi Digital, Inc.

Test Rating: AC 110V/60Hz

Product: Printer

Temp.(°C)/Hum.(%): 21.6(°C)/55%

Model No.: P750L

Test Engineer: Hugo Chang

Test Mode: Fundamental

Remark:

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	13.5586	20.92	32.89	53.81	139.90	-86.09	QP			

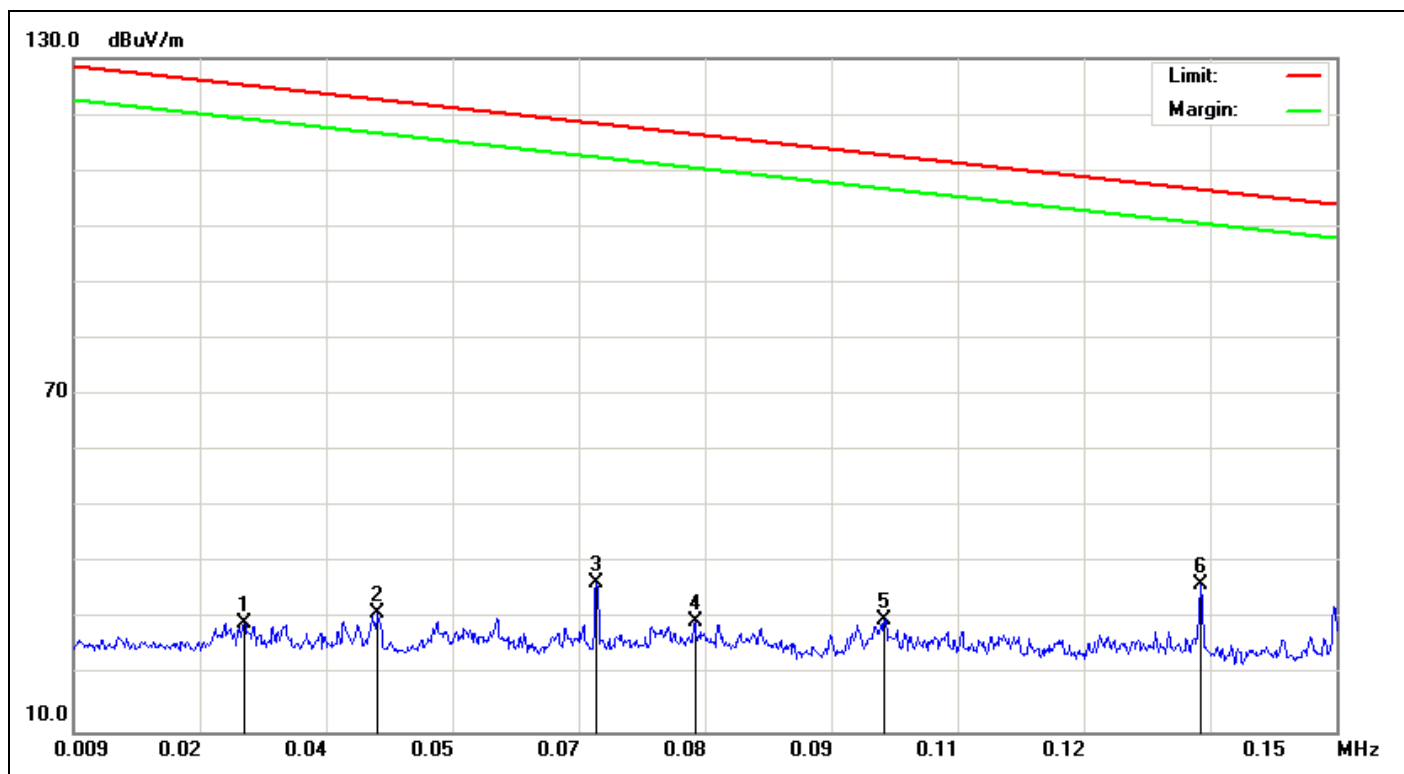
Spurious Emissions, TX+RX Mode, 0.009-30M



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Service No.: 114027237-NCC

Test Distance: 3m

Test Standard: NCC_2.8_9k-30M_3m(dBuV/m)

Ant. Polarization:

Test item: Radiation Emission

Test Time: 2014/11/10 10:32:11

Applicant: HiTi Digital, Inc.

Test Rating: AC 110V/60Hz

Product: Printer

Temp.(°C)/Hum.(%): 21.6(°C)/55%

Model No.: P750L

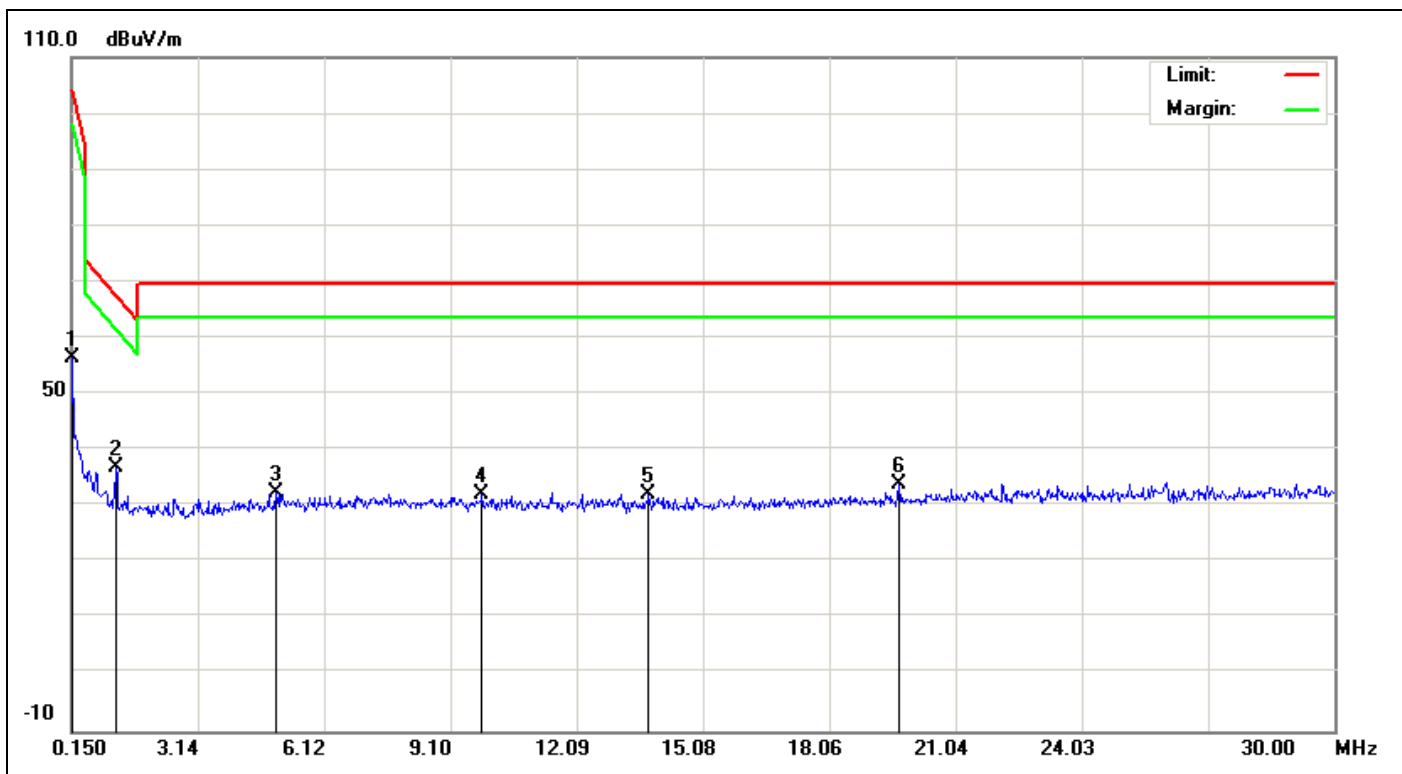
Test Engineer: Hugo Chang

Test Mode: TX

Remark:

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0280	20.67	8.82	29.49	118.59	-89.10	QP			
2	0.0430	20.00	11.13	31.13	114.88	-83.75	QP			
3	0.0674	19.53	17.13	36.66	110.98	-74.32	QP			
4	0.0784	19.46	10.08	29.54	109.67	-80.13	QP			
5	0.0995	19.34	10.50	29.84	107.61	-77.77	QP			
6	0.1349	19.30	16.84	36.14	104.97	-68.83	QP			

Spurious Emissions, TX+RX Mode 0.009-30M



Service No.: 114027237-NCC

Test Distance: 3m

Test Standard: NCC_2.8_9k-30M_3m(dBuV/m)

Ant. Polarization:

Test item: Radiation Emission

Test Time: 2014/11/10 10:35:17

Applicant: HiTi Digital, Inc.

Test Rating: AC 110V/60Hz

Product: Printer

Temp.(°C)/Hum.(%): 21.6(°C)/55%

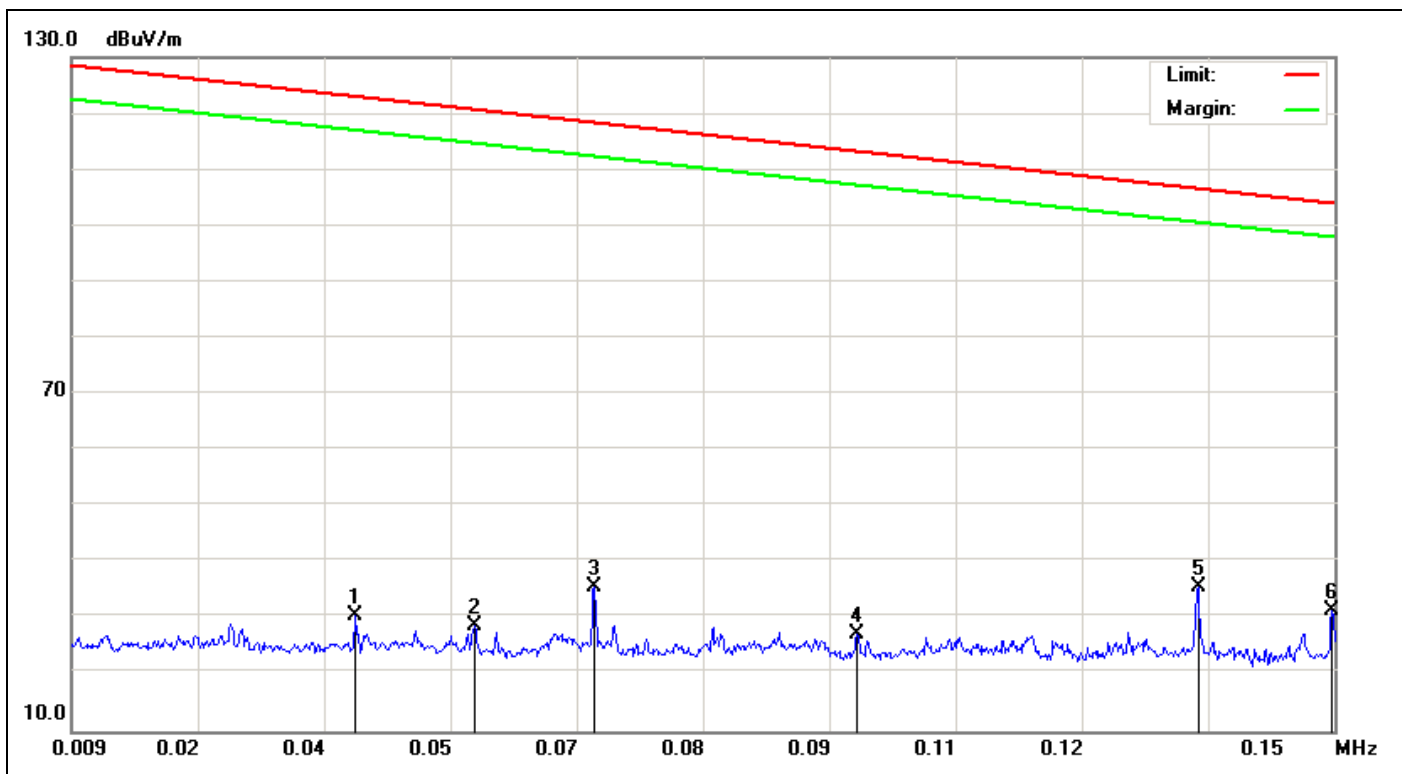
Model No.: P750L

Test Engineer: Hugo Chang

Test Mode: TX

Remark:

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1799	19.23	37.36	56.59	102.48	-45.89	QP			
2	1.1947	19.35	17.74	37.09	66.08	-28.99	QP			
3	4.9856	19.99	12.60	32.59	69.54	-36.95	QP			
4	9.8513	20.67	11.45	32.12	69.54	-37.42	QP			
5	13.7914	20.94	11.30	32.24	69.54	-37.30	QP			
6	19.7018	21.33	12.54	33.87	69.54	-35.67	QP			



Service No.: 114027237-NCC

Test Distance: 3m

Test Standard: NCC_2.8_9k-30M_3m(dBuV/m)

Ant. Polarization:

Test item: Radiation Emission

Test Time: 2014/11/10 10:47:13

Applicant: HiTi Digital, Inc.

Test Rating: AC 110V/60Hz

Product: Printer

Temp.(°C)/Hum.(%): 21.6(°C)/55%

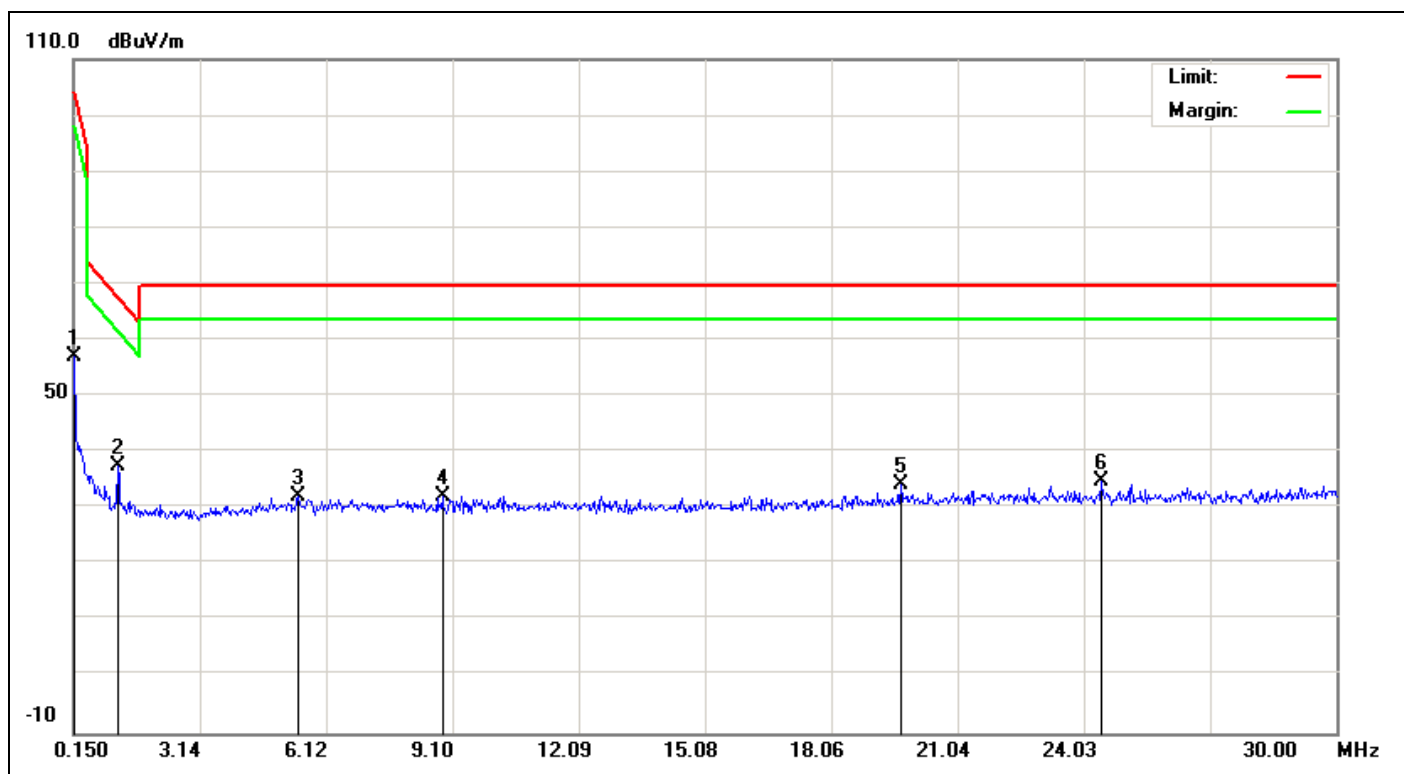
Model No.: P750L

Test Engineer: Hugo Chang

Test Mode: RX

Remark:

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.0407	20.13	10.37	30.50	115.29	-84.79	QP			
2	0.0540	19.60	9.14	28.74	112.85	-84.11	QP			
3	0.0674	19.53	16.09	35.62	110.93	-75.31	QP			
4	0.0967	19.36	8.03	27.39	107.82	-80.43	QP			
5	0.1348	19.30	16.39	35.69	104.95	-69.26	QP			
6	0.1497	19.28	12.10	31.38	104.04	-72.66	QP			



Service No.: 114027237-NCC

Test Distance: 3m

Test Standard: NCC_2.8_9k-30M_3m(dBuV/m)

Ant. Polarization:

Test item: Radiation Emission

Test Time: 2014/11/10 10:45:38

Applicant: HiTi Digital, Inc.

Test Rating: AC 110V/60Hz

Product: Printer

Temp.(°C)/Hum.(%): 21.6(°C)/55%

Model No.: P750L

Test Engineer: Hugo Chang

Test Mode: RX

Remark:

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1799	19.23	37.91	57.14	102.45	-45.31	QP			
2	1.1947	19.35	18.13	37.48	66.08	-28.60	QP			
3	5.4633	20.06	12.14	32.20	69.54	-37.34	QP			
4	8.8662	20.53	11.67	32.20	69.54	-37.34	QP			
5	19.7018	21.33	12.84	34.17	69.54	-35.37	QP			
6	24.4479	21.59	13.13	34.72	69.54	-34.82	QP			

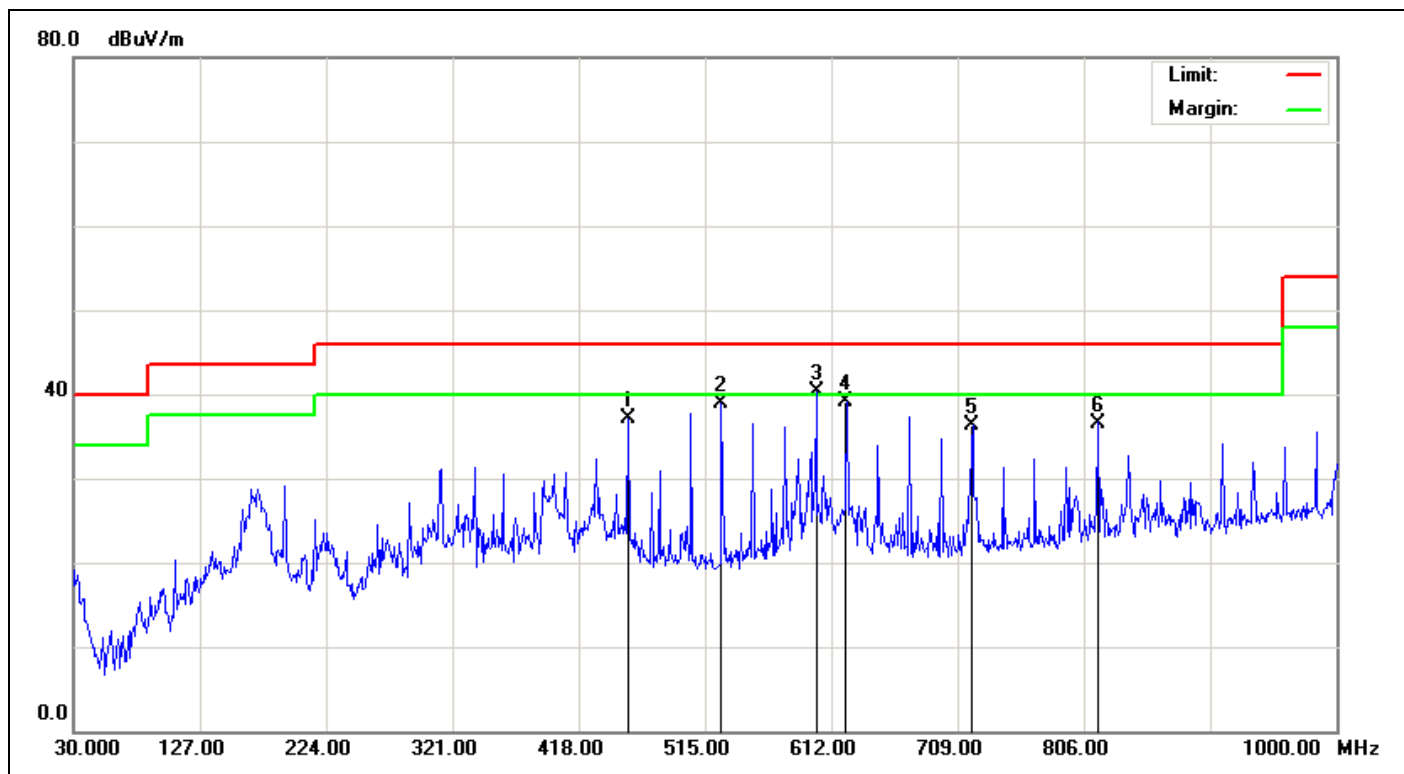
Spurious Emissions, TX+RX Mode, 30M-1G



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Service No.: 114027237-NCC

Test Distance: 3m

Test Standard: NCC Class B 3M Radiation

Ant. Polarization: Horizontal

Test item: Radiation Emission

Test Time: 2014/11/10 09:56:19

Applicant: HiTi Digital, Inc.

Test Rating: AC 110V/60Hz

Product: Printer

Temp.(°C)/Hum.(%): 21.6(°C)/55%

Model No.: P750L

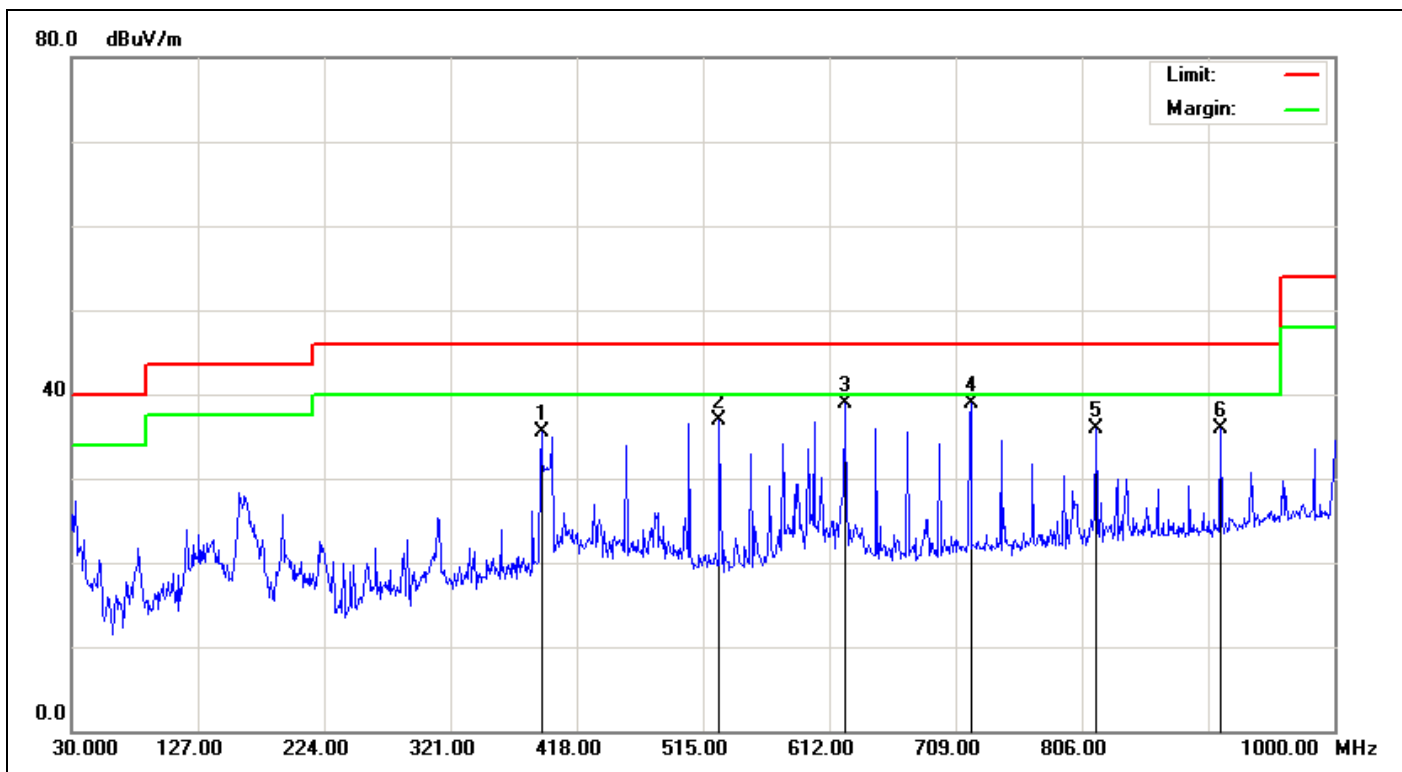
Test Engineer: Hugo Chang

Test Mode: TX

Remark:

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	455.8299	-9.25	46.31	37.06	46.00	-8.94	QP	100	320	
2	527.6100	-8.32	47.19	38.87	46.00	-7.13	QP	100	323	
3	600.3600	-7.10	47.38	40.28	46.00	-5.72	QP	100	33	
4	623.6399	-6.79	45.97	39.18	46.00	-6.82	QP	100	35	
5	720.6399	-5.62	41.99	36.37	46.00	-9.63	QP	100	9	
6	816.6699	-4.16	40.76	36.60	46.00	-9.40	QP	200	288	

Spurious Emissions, TX+RX Mode, 30M-1G



Service No.: 114027237-NCC

Test Standard: NCC_2.8_9k-30M_3m(dBuV/m)

Test item: Radiation Emission

Applicant: HiTi Digital, Inc.

Product: Printer

Model No.: P750L

Test Mode: TX

Remark:

Test Distance: 3m

Ant. Polarization: Vertical

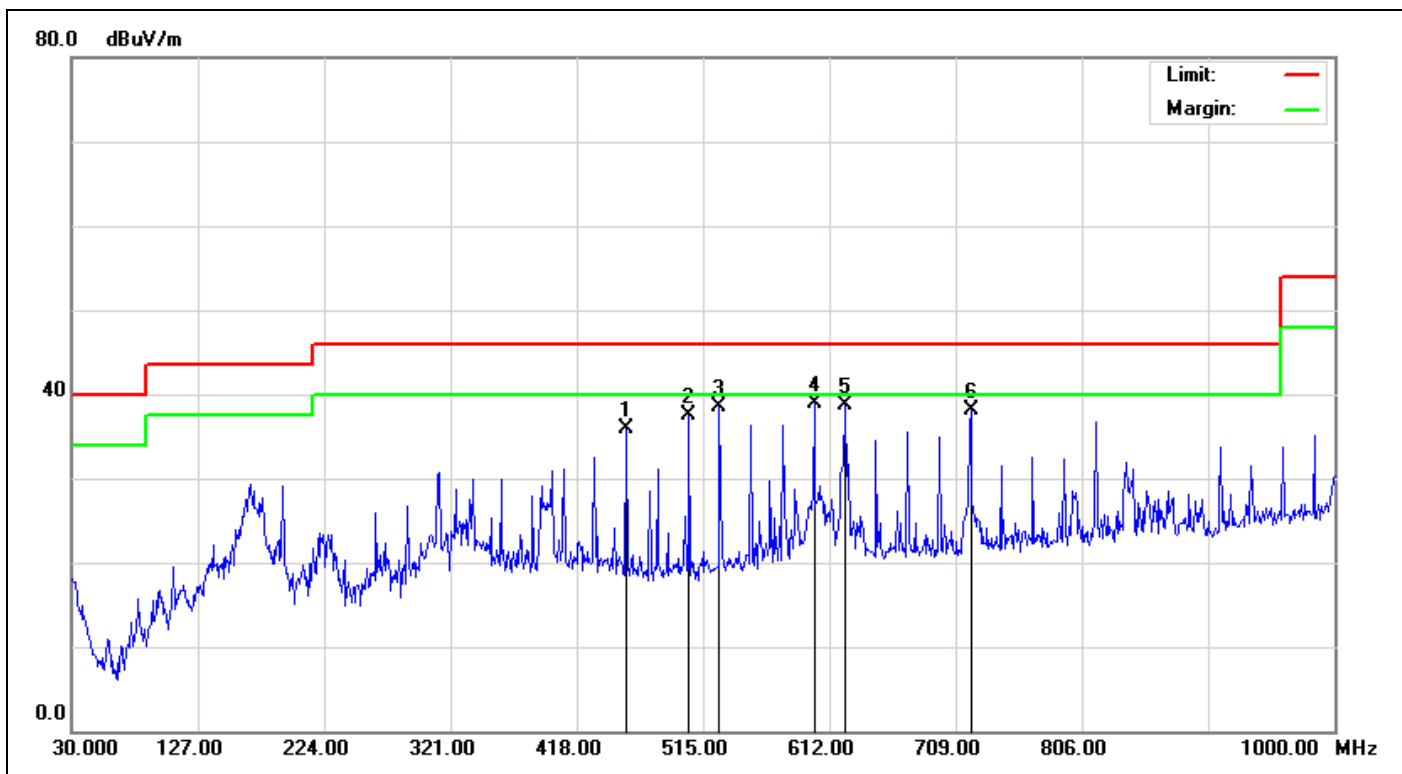
Test Time: 2014/11/10 09:58:37

Test Rating: AC 110V/60Hz

Temp.(°C)/Hum.(%): 21.6(°C)/55%

Test Engineer: Hugo Chang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	390.8400	-10.20	45.71	35.51	46.00	-10.49	QP	100	299	
2	527.6100	-8.32	45.27	36.95	46.00	-9.05	QP	100	341	
3	623.6400	-6.79	45.63	38.84	46.00	-7.16	QP	100	109	
4	720.6400	-5.62	44.43	38.81	46.00	-7.19	QP	100	186	
5	816.6700	-4.16	40.06	35.90	46.00	-10.10	QP	100	341	
6	912.7000	-2.53	38.44	35.91	46.00	-10.09	QP	100	343	



Service No.: 114027237-NCC

Test Distance: 3m

Test Standard: NCC Class B 3M Radiation

Ant. Polarization: Vertical

Test item: Radiation Emission

Test Time: 2014/11/10 10:08:02

Applicant: HiTi Digital, Inc.

Test Rating: AC 110V/60Hz

Product: Printer

Temp.(°C)/Hum.(%): 21.6(°C)/55%

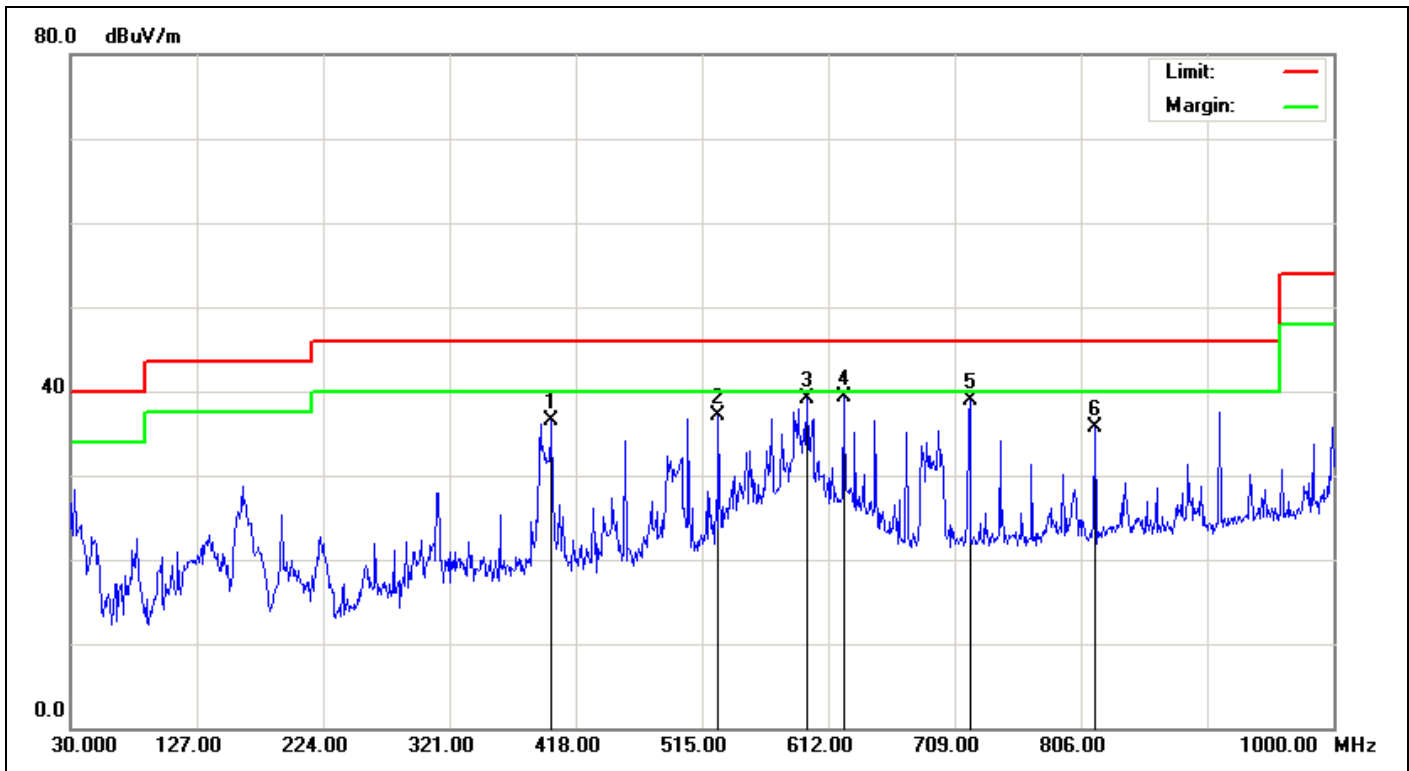
Model No.: P750L

Test Engineer: Hugo Chang

Test Mode: RX

Remark:

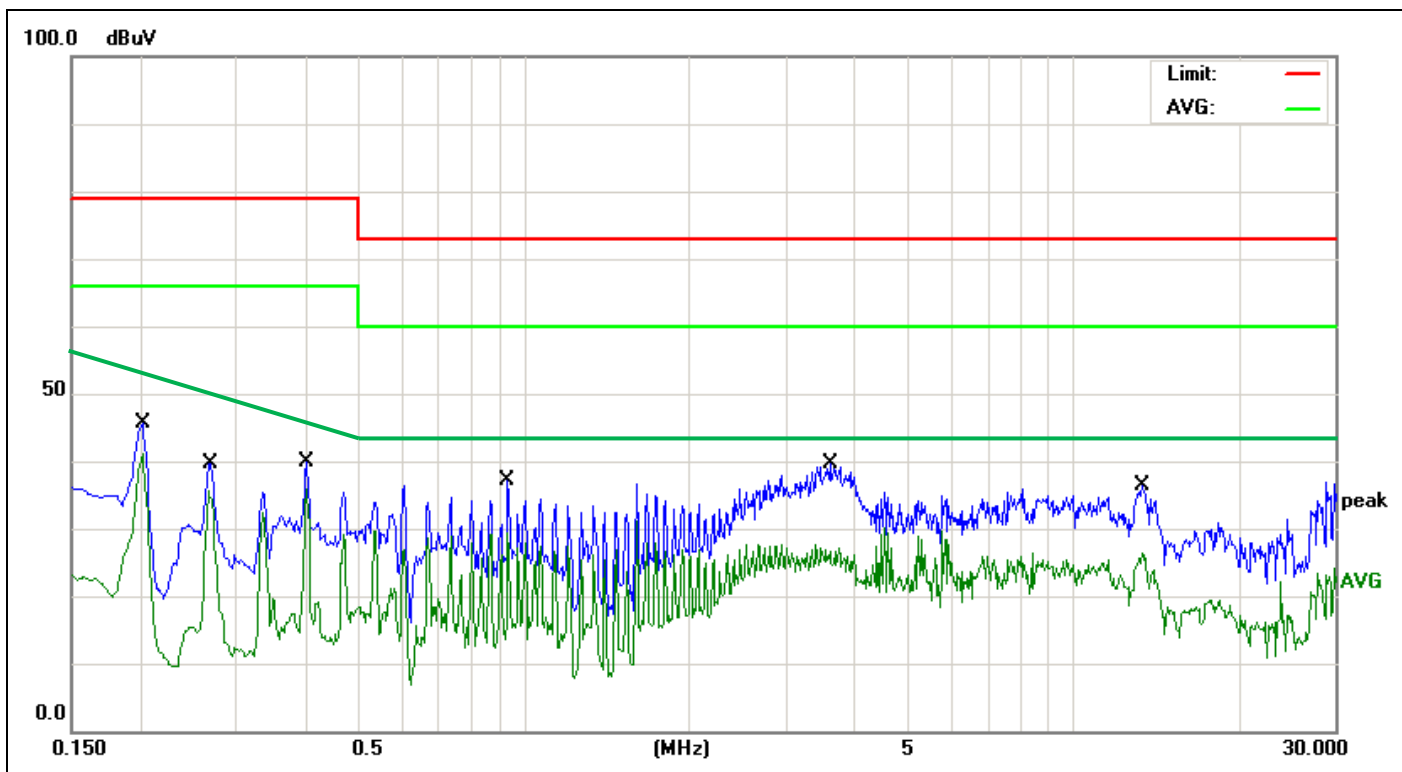
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	455.8300	-9.25	45.22	35.97	46.00	-10.03	QP	100	312	
2	504.3300	-8.50	45.95	37.45	46.00	-8.55	QP	100	256	
3	527.6100	-8.32	46.89	38.57	46.00	-7.43	QP	100	333	
4	600.3600	-7.10	46.07	38.97	46.00	-7.03	QP	100	30	
5	623.6400	-6.79	45.54	38.75	46.00	-7.25	QP	100	24	
6	720.6400	-5.62	43.77	38.15	46.00	-7.85	QP	100	11	



Service No.:	114027237-NCC	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2014/11/10 10:10:21
Applicant:	HiTi Digital, Inc.	Test Rating:	AC 110V/60Hz
Product:	Printer	Temp.(°C)/Hum.(%):	21.6(°C)/55%
Model No.:	P750L	Test Engineer:	Hugo Chang
Test Mode:	RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	399.5700	-10.07	46.49	36.42	46.00	-9.58	QP	200	17	
2	527.6100	-8.32	45.42	37.10	46.00	-8.90	QP	100	338	
3	595.5100	-7.19	46.36	39.17	46.00	-6.83	QP	100	197	
4	623.6400	-6.79	46.09	39.30	46.00	-6.70	QP	100	104	
5	720.6400	-5.62	44.58	38.96	46.00	-7.04	QP	100	181	
6	816.6700	-4.16	39.86	35.70	46.00	-10.30	QP	100	354	

Mains Spurious Emissions



Service No.: 114027237

Test Standard: CNS13438 Class A Conduction(QP)

Probe: L1

Test item: Conduction Emission

Test Time: 2014/10/30 19:51:48

Applicant: HiTi Digital, Inc.

Test Rating: AC 110V/60Hz

Product: Printer

Temp.(°C)/Hum.(%): 23.1(°C)/44%

Model No.: P750L

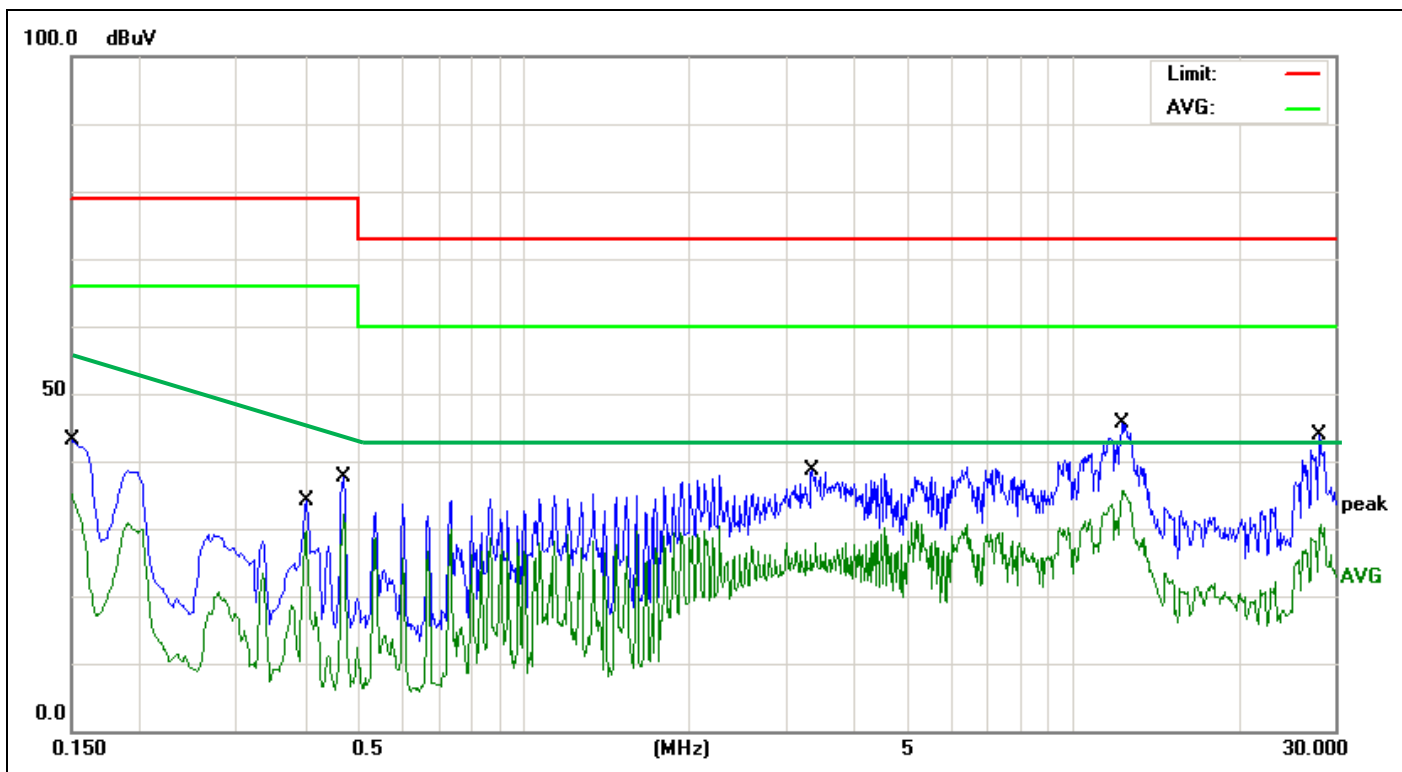
Test Engineer: Hugo Chang

Test Mode: Printer mode

Remark:

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.2020	9.63	34.10	43.73	79.00	-35.27	QP	
2	0.2020	9.63	30.91	40.54	66.00	-25.46	AVG	
3	0.2700	9.62	27.17	36.79	79.00	-42.21	QP	
4	0.2700	9.62	24.06	33.68	66.00	-32.32	AVG	
5	0.4020	9.63	27.50	37.13	79.00	-41.87	QP	
6	0.4020	9.63	21.84	31.47	66.00	-34.53	AVG	
7	0.9380	9.63	22.30	31.93	73.00	-41.07	QP	
8	0.9380	9.63	17.56	27.19	60.00	-32.81	AVG	

9	3.6220	9.67	21.41	31.08	73.00	-41.92	QP	
10	3.6220	9.67	12.76	22.43	60.00	-37.57	AVG	
11	13.3500	9.81	18.29	28.10	73.00	-44.90	QP	
12	13.3500	9.81	11.55	21.36	60.00	-38.64	AVG	



Service No.: 114027237

Test Standard: CNS13438 Class A Conduction(QP)

Probe: N

Test item: Conduction Emission

Test Time: 2014/10/30 19:53:53

Applicant: HiTi Digital, Inc.

Test Rating: AC 110V/60Hz

Product: Printer

Temp.(°C)/Hum.(%): 23.1(°C)/44%

Model No.: P750L

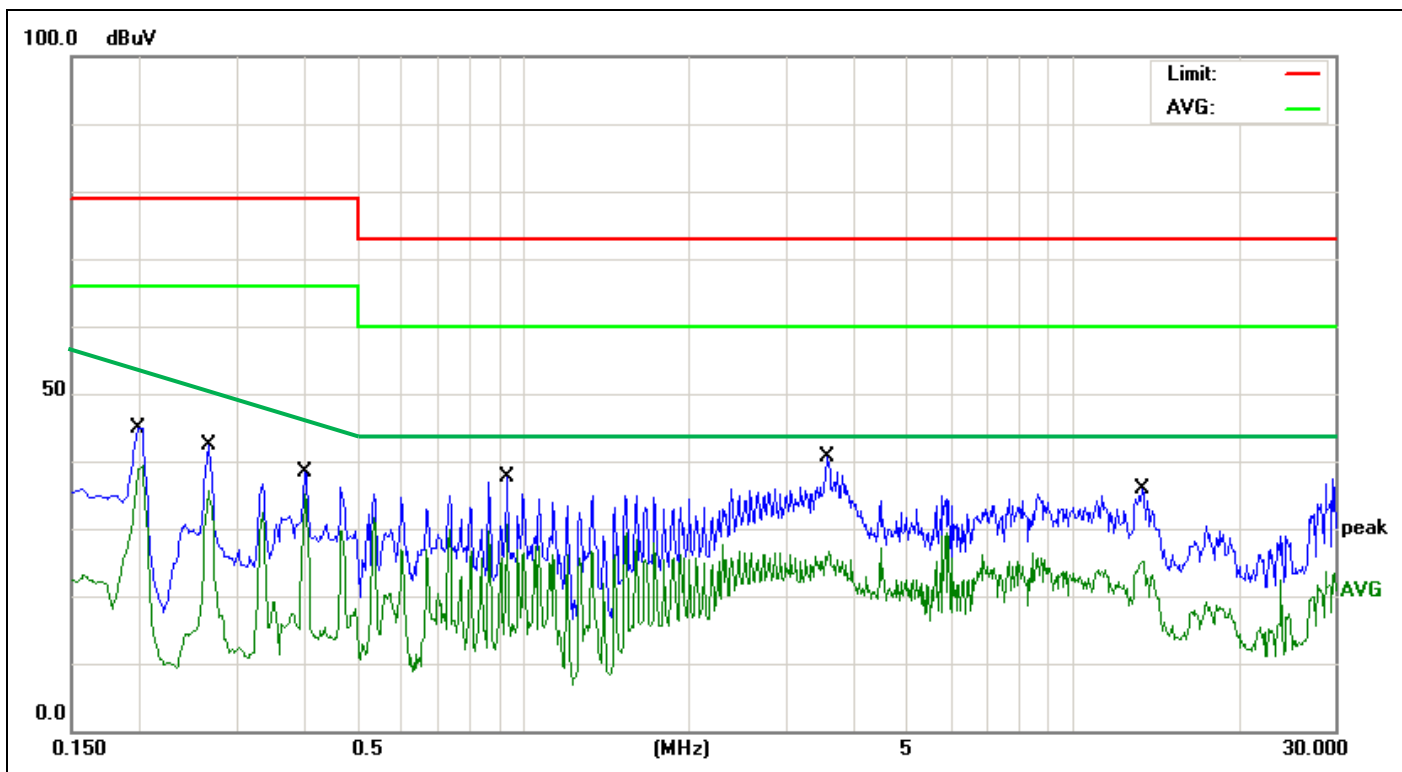
Test Engineer: Hugo Chang

Test Mode: Printer mode

Remark:

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1500	9.66	9.26	18.92	79.00	-60.08	QP	
2	0.1500	9.66	4.33	13.99	66.00	-52.01	AVG	
3	0.4020	9.64	21.00	30.64	79.00	-48.36	QP	
4	0.4020	9.64	16.13	25.77	66.00	-40.23	AVG	
5	0.4700	9.64	20.71	30.35	79.00	-48.65	QP	
6	0.4700	9.64	14.23	23.87	66.00	-42.13	AVG	
7	3.3500	9.69	21.57	31.26	73.00	-41.74	QP	
8	3.3500	9.69	14.35	24.04	60.00	-35.96	AVG	

9	12.2980	9.84	22.44	32.28	73.00	-40.72	QP	
10	12.2980	9.84	14.65	24.49	60.00	-35.51	AVG	
11	28.1500	10.07	25.39	35.46	73.00	-37.54	QP	
12	28.1500	10.07	16.35	26.42	60.00	-33.58	AVG	



Service No.: 114027237

Test Standard: FCC Class A Conduction(QP)

Test item: Conduction Emission

Applicant: HiTi Digital, Inc.

Product: Printer

Model No.: P750L

Test Mode: Printer mode

Remark:

Probe: L1

Test Time: 2014/10/30 19:56:30

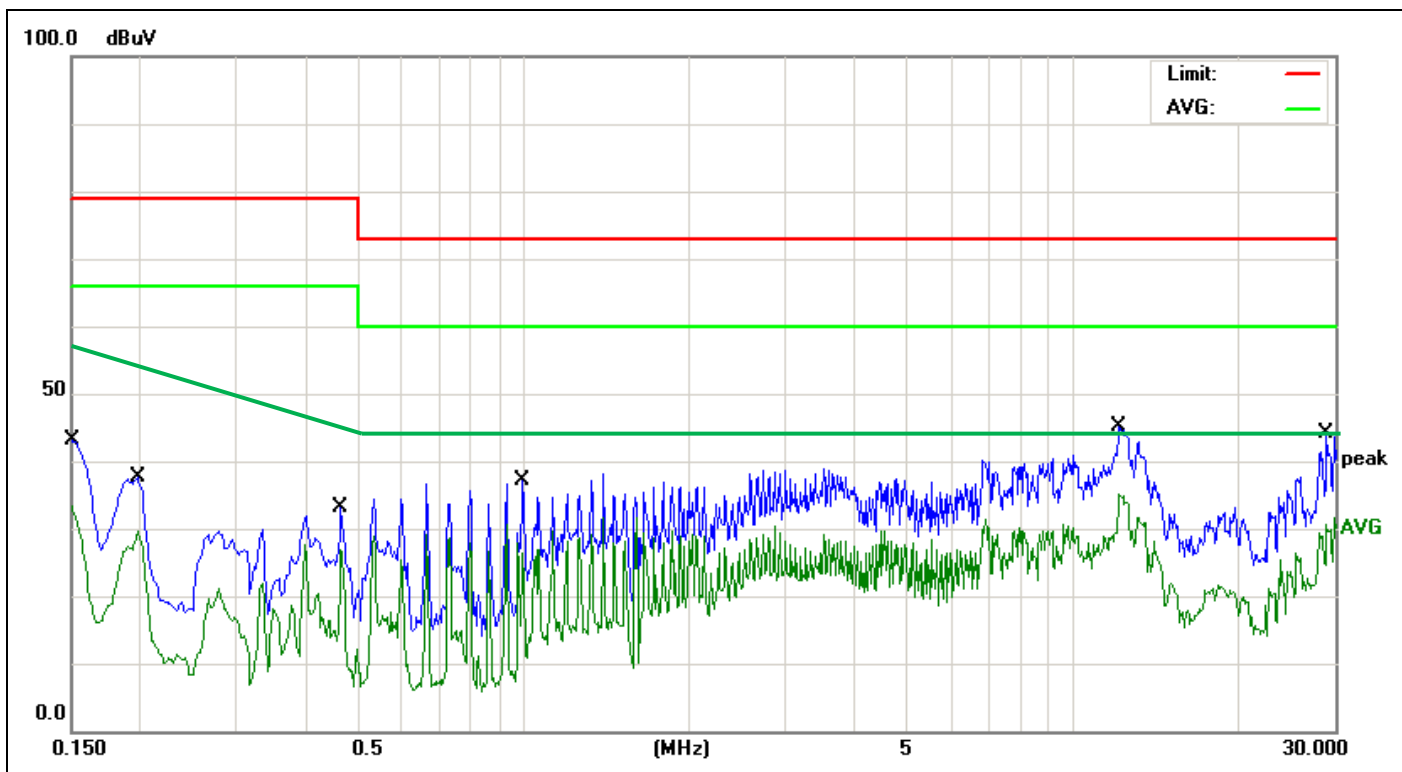
Test Rating: AC 120V/60Hz

Temp.(°C)/Hum.(%): 23.1(°C)/44%

Test Engineer: Hugo Chang

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1980	9.63	33.75	43.38	79.00	-35.62	QP	
2	0.1980	9.63	29.52	39.15	66.00	-26.85	AVG	
3	0.2660	9.62	29.49	39.11	79.00	-39.89	QP	
4	0.2660	9.62	25.91	35.53	66.00	-30.47	AVG	
5	0.3980	9.63	27.71	37.34	79.00	-41.66	QP	
6	0.3980	9.63	22.33	31.96	66.00	-34.04	AVG	
7	0.9340	9.63	24.45	34.08	73.00	-38.92	QP	
8	0.9340	9.63	18.73	28.36	60.00	-31.64	AVG	

9	3.5780	9.67	20.11	29.78	73.00	-43.22	QP	
10	3.5780	9.67	11.92	21.59	60.00	-38.41	AVG	
11	13.3420	9.81	18.51	28.32	73.00	-44.68	QP	
12	13.3420	9.81	11.29	21.10	60.00	-38.90	AVG	



Service No.: 114027237

Test Standard: FCC Class A Conduction(QP)

Probe: N

Test item: Conduction Emission

Test Time: 2014/10/30 19:58:42

Applicant: HiTi Digital, Inc.

Test Rating: AC 120V/60Hz

Product: Printer

Temp.(°C)/Hum.(%): 23.1(°C)/44%

Model No.: P750L

Test Engineer: Hugo Chang

Test Mode: Printer mode

Remark:

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1500	9.66	32.26	41.92	79.00	-37.08	QP	
2	0.1500	9.66	22.20	31.86	66.00	-34.14	AVG	
3	0.1980	9.65	24.52	34.17	79.00	-44.83	QP	
4	0.1980	9.65	18.17	27.82	66.00	-38.18	AVG	
5	0.4660	9.64	23.57	33.21	79.00	-45.79	QP	
6	0.4660	9.64	19.29	28.93	66.00	-37.07	AVG	
7	0.9980	9.64	23.67	33.31	73.00	-39.69	QP	
8	0.9980	9.64	17.00	26.64	60.00	-33.36	AVG	

9	12.1620	9.83	30.44	40.27	73.00	-32.73	QP	
10	12.1620	9.83	21.88	31.71	60.00	-28.29	AVG	
11	28.9820	10.09	19.94	30.03	73.00	-42.97	QP	
12	28.9820	10.09	13.42	23.51	60.00	-36.49	AVG	