

CONDUCTED EMISSIONS



Test Report #: WC506404 Run 1 Test Area: SCREENROOM

EUT Model #: MiniMark Date: 3/10/06

EUT Serial #: NA EUT Power: 115 VAC / 60 Hz Temperature: 23.0 °C

Test Method: EN55022 B Air Pressure: 35.0 kPa

Customer: Brady Rel. Humidity: 98.0 %

EUT Description: Industrial Label Maker

Notes:

Data File Name: 6404.dat

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List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	EUT Lead	DELTA1 EN55022 B Qp	DELTA2 EN55022 B Avg
115 VAC / 60 Hz						
150.0 kHz	65.68 Qp	0.0 / 2.9 / 0.0 / 0.0	68.58	L1	2.58	n/a
150.0 kHz	34.08 Av	0.0 / 2.9 / 0.0 / 0.0	36.98	L1	n/a	-19.02
180.0 kHz	64.95 Qp	0.01 / 2.3 / 0.0 / 0.0	67.26	L1	2.77	n/a
180.0 kHz	34.48 Av	0.01 / 2.3 / 0.0 / 0.0	36.79	L1	n/a	-17.7
235.0 kHz	62.65 Qp	0.01 / 1.8 / 0.0 / 0.0	64.45	L1	2.18	n/a
235.0 kHz	30.95 Av	0.01 / 1.8 / 0.0 / 0.0	32.75	L1	n/a	-19.52
265.0 kHz	62.85 Qp	0.01 / 1.71 / 0.0 / 0.0	64.56	L1	3.29	n/a
265.0 kHz	31.34 Av	0.01 / 1.71 / 0.0 / 0.0	33.05	L1	n/a	-18.22
305.0 kHz	60.25 Qp	0.01 / 1.57 / 0.0 / 0.0	61.83	L1	1.72	n/a
305.0 kHz	30.33 Av	0.01 / 1.57 / 0.0 / 0.0	31.91	L1	n/a	-18.2
350.0 kHz	56.82 Qp	0.01 / 1.25 / 0.0 / 0.0	58.08	L1	-0.88	n/a
350.0 kHz	24.16 Av	0.01 / 1.25 / 0.0 / 0.0	25.42	L1	n/a	-23.54
485.0 kHz	46.29 Qp	0.02 / 0.22 / 0.0 / 0.0	46.53	L1	-9.73	n/a
485.0 kHz	18.85 Av	0.02 / 0.22 / 0.0 / 0.0	19.09	L1	n/a	-27.17
650.0 kHz	37.15 Qp	0.02 / 0.02 / 0.0 / 0.0	37.19	L1	-18.81	n/a
650.0 kHz	11.54 Av	0.02 / 0.02 / 0.0 / 0.0	11.58	L1	n/a	-34.42
1.1 MHz	34.11 Qp	0.04 / 0.01 / 0.0 / 0.0	34.16	L1	-21.84	n/a
1.1 MHz	2.2 Av	0.04 / 0.01 / 0.0 / 0.0	2.25	L1	n/a	-43.75
1.88 MHz	21.99 Qp	0.06 / 0.01 / 0.0 / 0.0	22.06	L1	-33.94	n/a
1.88 MHz	-0.29 Av	0.06 / 0.01 / 0.0 / 0.0	-0.22	L1	n/a	-46.22
7.215 MHz	31.87 Qp	0.17 / 0.04 / 0.0 / 0.0	32.08	L1	-27.92	n/a
7.215 MHz	23.86 Av	0.17 / 0.04 / 0.0 / 0.0	24.07	L1	n/a	-25.93
12.875 MHz	26.12 Qp	0.32 / 0.07 / 0.0 / 0.0	26.51	L1	-33.49	n/a
12.875 MHz	15.72 Av	0.32 / 0.07 / 0.0 / 0.0	16.11	L1	n/a	-33.89
22.0 MHz	29.45 Qp	0.39 / 0.14 / 0.0 / 0.0	29.97	L1	-30.03	n/a

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22.0 MHz	15.18 Av	0.39 / 0.14 / 0.0 / 0.0	15.7	L1	n/a	-34.3
150.0 kHz	63.58 Qp	0.0 / 2.9 / 0.0 / 0.0	66.48	N	0.48	n/a
150.0 kHz	31.94 Av	0.0 / 2.9 / 0.0 / 0.0	34.84	N	n/a	-21.16
180.0 kHz	66.06 Qp	0.01 / 2.3 / 0.0 / 0.0	68.37	N	3.88	n/a
180.0 kHz	31.09 Av	0.01 / 2.3 / 0.0 / 0.0	33.4	N	n/a	-21.09
235.0 kHz	62.02 Qp	0.01 / 1.8 / 0.0 / 0.0	63.82	N	1.55	n/a
235.0 kHz	30.1 Av	0.01 / 1.8 / 0.0 / 0.0	31.9	N	n/a	-20.37
265.0 kHz	62.75 Qp	0.01 / 1.71 / 0.0 / 0.0	64.46	N	3.19	n/a
265.0 kHz	30.39 Av	0.01 / 1.71 / 0.0 / 0.0	32.1	N	n/a	-19.17
305.0 kHz	61.2 Qp	0.01 / 1.57 / 0.0 / 0.0	62.78	N	2.67	n/a
305.0 kHz	28.92 Av	0.01 / 1.57 / 0.0 / 0.0	30.5	N	n/a	-19.61
350.0 kHz	57.4 Qp	0.01 / 1.25 / 0.0 / 0.0	58.66	N	-0.3	n/a
350.0 kHz	24.3 Av	0.01 / 1.25 / 0.0 / 0.0	25.56	N	n/a	-23.4
485.0 kHz	47.09 Qp	0.02 / 0.22 / 0.0 / 0.0	47.33	N	-8.93	n/a
485.0 kHz	15.37 Av	0.02 / 0.22 / 0.0 / 0.0	15.61	N	n/a	-30.65
650.0 kHz	37.65 Qp	0.02 / 0.02 / 0.0 / 0.0	37.69	N	-18.31	n/a
650.0 kHz	10.9 Av	0.02 / 0.02 / 0.0 / 0.0	10.94	N	n/a	-35.06
1.1 MHz	23.93 Qp	0.04 / 0.01 / 0.0 / 0.0	23.98	N	-32.02	n/a
1.1 MHz	-3.95 Av	0.04 / 0.01 / 0.0 / 0.0	-3.9	N	n/a	-49.9
1.88 MHz	23.37 Qp	0.06 / 0.01 / 0.0 / 0.0	23.44	N	-32.56	n/a
1.88 MHz	-1.07 Av	0.06 / 0.01 / 0.0 / 0.0	-1.0	N	n/a	-47.0
7.215 MHz	34.42 Qp	0.17 / 0.04 / 0.0 / 0.0	34.63	N	-25.37	n/a
7.215 MHz	19.67 Av	0.17 / 0.04 / 0.0 / 0.0	19.88	N	n/a	-30.12
12.875 MHz	14.94 Qp	0.32 / 0.07 / 0.0 / 0.0	15.33	N	-44.67	n/a
12.875 MHz	5.16 Av	0.32 / 0.07 / 0.0 / 0.0	5.55	N	n/a	-44.45

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Test Method: EN55022 B Air Pressure: 35.0 kPa
Customer: Brady Rel. Humidity: 98.0 %
EUT Description: Industrial Label Maker

Notes: _____

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List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	EUT Lead	DELTA1 EN55022 B Qp	DELTA2 EN55022 B Avg
22.0 MHz	32.0 Qp	0.39 / 0.14 / 0.0 / 0.0	32.52	N	-27.48	n/a
22.0 MHz	22.99 Av	0.39 / 0.14 / 0.0 / 0.0	23.51	N	n/a	-26.49

150 kHz to 305 kHz emissions are broadband in nature, from unintentional radiator portion of device, due to motor - same levels with transmitter disabled – they do meet the Class A limit required of the printer.

Scan complete 115 VAC / 60 Hz

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Customer: Brady Rel. Humidity: 98.0 %

EUT Description: Industrial Label Maker

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Measurement summary for limit1: EN55022 B Qp (Qp)

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	EUT Lead	DELTA1 EN55022 B Qp
180.0 kHz	66.06 Qp	0.01 / 2.3 / 0.0 / 0.0	68.37	N	3.88
265.0 kHz	62.85 Qp	0.01 / 1.71 / 0.0 / 0.0	64.56	L1	3.29
305.0 kHz	61.2 Qp	0.01 / 1.57 / 0.0 / 0.0	62.78	N	2.67
150.0 kHz	65.68 Qp	0.0 / 2.9 / 0.0 / 0.0	68.58	L1	2.58
235.0 kHz	62.65 Qp	0.01 / 1.8 / 0.0 / 0.0	64.45	L1	2.18
350.0 kHz	57.4 Qp	0.01 / 1.25 / 0.0 / 0.0	58.66	N	-0.3
485.0 kHz	47.09 Qp	0.02 / 0.22 / 0.0 / 0.0	47.33	N	-8.93
650.0 kHz	37.65 Qp	0.02 / 0.02 / 0.0 / 0.0	37.69	N	-18.31
1.1 MHz	34.11 Qp	0.04 / 0.01 / 0.0 / 0.0	34.16	L1	-21.84
7.215 MHz	34.42 Qp	0.17 / 0.04 / 0.0 / 0.0	34.63	N	-25.37
22.0 MHz	32.0 Qp	0.39 / 0.14 / 0.0 / 0.0	32.52	N	-27.48
1.88 MHz	23.37 Qp	0.06 / 0.01 / 0.0 / 0.0	23.44	N	-32.56
12.875 MHz	26.12 Qp	0.32 / 0.07 / 0.0 / 0.0	26.51	L1	-33.49

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Measurement summary for limit2: EN55022 B Avg (Av)

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	EUT Lead	DELTA2 EN55022 B Avg
180.0 kHz	34.48 Av	0.01 / 2.3 / 0.0 / 0.0	36.79	L1	-17.7
305.0 kHz	30.33 Av	0.01 / 1.57 / 0.0 / 0.0	31.91	L1	-18.2
265.0 kHz	31.34 Av	0.01 / 1.71 / 0.0 / 0.0	33.05	L1	-18.22
150.0 kHz	34.08 Av	0.0 / 2.9 / 0.0 / 0.0	36.98	L1	-19.02
235.0 kHz	30.95 Av	0.01 / 1.8 / 0.0 / 0.0	32.75	L1	-19.52
350.0 kHz	24.3 Av	0.01 / 1.25 / 0.0 / 0.0	25.56	N	-23.4
7.215 MHz	23.86 Av	0.17 / 0.04 / 0.0 / 0.0	24.07	L1	-25.93
22.0 MHz	22.99 Av	0.39 / 0.14 / 0.0 / 0.0	23.51	N	-26.49
485.0 kHz	18.85 Av	0.02 / 0.22 / 0.0 / 0.0	19.09	L1	-27.17
12.875 MHz	15.72 Av	0.32 / 0.07 / 0.0 / 0.0	16.11	L1	-33.89
650.0 kHz	11.54 Av	0.02 / 0.02 / 0.0 / 0.0	11.58	L1	-34.42
1.1 MHz	2.2 Av	0.04 / 0.01 / 0.0 / 0.0	2.25	L1	-43.75
1.88 MHz	-0.29 Av	0.06 / 0.01 / 0.0 / 0.0	-0.22	L1	-46.22

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EUT Serial #: NA EUT Power: 115 VAC / 60 Hz Temperature: 23.0 °C

Test Method: EN55022 B Air Pressure: 35.0 kPa

Customer: Brady Rel. Humidity: 98.0 %

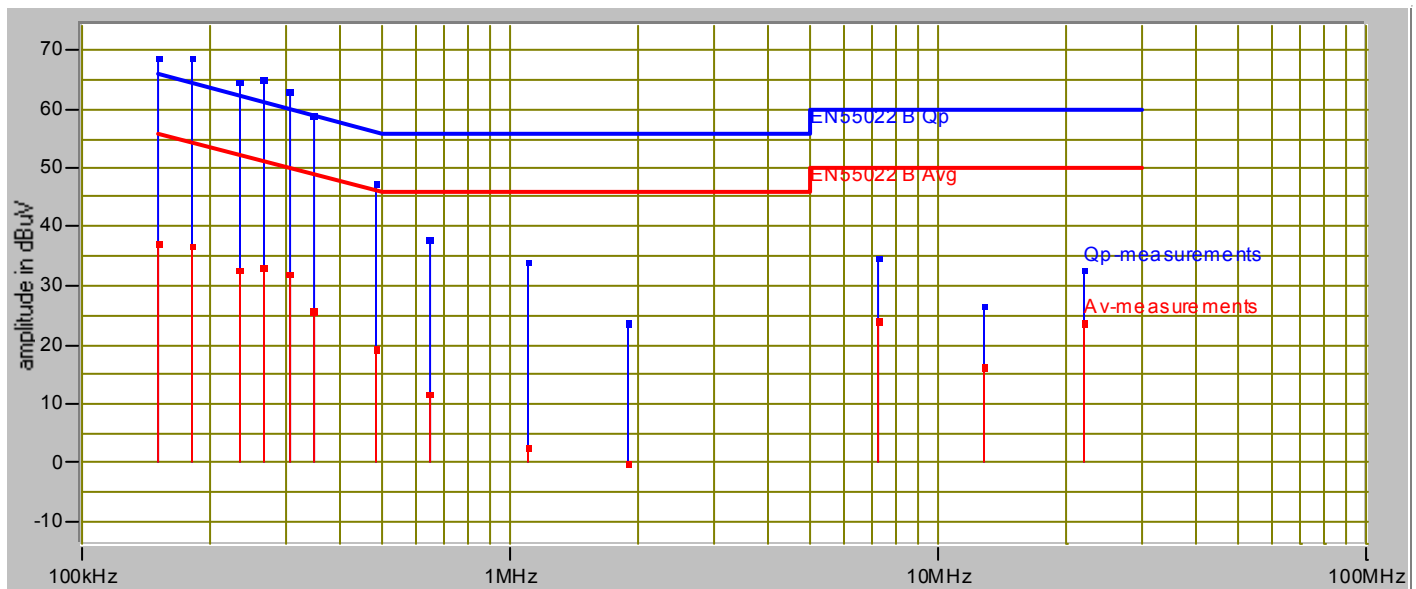
EUT Description: Industrial Label Maker

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Graph:



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