Measuring Volt (milli Volt) and under Amp load, over each item in the eletric path, to determine heat sources (Watt sources/high mOhm items).

Board 144C, Blade fuse on wire, PSU 12,5V

(15A blade fuse)
Mosfet: 2x IRLR7843

WOSIEL ZX IRLR / 043								
Red wire (+)	7.1	mV	9.54	Α	0.068 W			
Connector	8.1	mV	9.51		0.077 W			
PCB	2.9	mV	9.42	Α	0.027 W			
Fuse (SMD 7A)	49.6	mV	9.38	Α	0.465 W			
PCB	3.2	mV	9.29	Α	0.030 W			
Connector	7.5	mV	9.23		0.069 W			
Bed + (red wire)	11.8	mV	9.20	Α	0.109 W			
Bed- (black wire)	12.3	mV	9.17	Α	0.113 W			
Connector	7.5	mV	9.13		0.068 W			
PCB to mosfet	3.8	mV	9.06	Α	0.034 W			
Mosfet A	32.8	mV	9.04	Α	0.297 W			
Mosfet B	31.6	mV	9.03	Α	0.285 W			
PCB to -	26.3	mV	9.01	Α	0.237 W			
Connector	6.8	mV	8.95		0.061 W			
Black wire (-)	4.7	mV	8.92	Α	0.042 W			

	'Soldere						
86 W							0.74 mOh
77 W	8.1	mV	0.077	W	0.85	mOhm	0.85 mOh
27 W	2.9	mV	0.027	W	0.31	mOhm	0.31 mOh
65 W							5.29 mOh
30 W	3.2	mV	0.030	W	0.34	mOhm	0.34 mOh
69 W	7.5	mV	0.069	W	0.81	mOhm	0.81 mOh
09 W							1.28 mOh
13 W							1.34 mOh
68 W	7.5	mV	0.068	W	0.82	mOhm	0.82 mOh
34 W	3.8	mV	0.034	W	0.42	mOhm	0.42 mOh
97 W	32.8	mV	0.297	W	3.63	mOhm	3.63 mOh
85 W	31.6	mV	0.285	W	3.50	mOhm	3.50 mOh
37 W	26.3	mV	0.237	W	2.92	mOhm	2.92 mOh
61 W	6.8	mV	0.061	W	0.76	mOhm	0.76 mOh
42 W							0.53 mOh
Sum:	130.5	mV	1.186	W	14.36	mOhm	

At the end of measuring, temperatures were taken

Blade fuse 52.0 C Mosfet A 42.7 C Mosfet B 43.9 C

Board 144C, Blade fuse in PCB sockets, PSU 12,5V

(15A blade fuse)

Mosfet: 2x IRLR784			'Soldered to'	= heats PCB			
Red wire (+)	4.1 mV	9.20 A	0.038 W				0.45
Connector	8.7 mV	9.16 A	0.080	8.7 mV	0.080 W	0.95 mOhm	0.95 mOh
PCB	2.2 mV	9.13 A	0.020 W	2.2 mV	0.020 W	0.24 mOhm	0.24
Fuse only	48.5 mV	9.06 A	0.439 W			mOhm	5.35
Fuse and socket	52.7 mV	9.07 A	0.478 W	52.7 mV	0.478 W	5.81 mOhm	5.81
PCB	3.9 mV	9.05 A	0.035 W	3.9 mV	0.035 W	0.43 mOhm	0.43
Connector	8.6 mV	9.03 A	0.078	8.6 mV	0.078 W	0.95 mOhm	0.95
Bed + (red wire)	10.7 mV	9.02 A	0.097 W			mOhm	1.19
Heat Bed	11.7 V	9.01 A	105.417 W				1.30 Ohm
Bed- (black wire)	8.5 mV	9.00 A	0.077 W			mOhm	0.94 mOh
Connector	10.6 mV	8.98 A	0.095	10.6 mV	0.095 W	1.18 mOhm	1.18
PCB to mosfet	4.1 mV	8.97 A	0.037 W	4.1 mV	0.037 W	0.46 mOhm	0.46
Mosfet A	31.7 mV	8.96 A	0.284 W	31.7 mV	0.284 W	3.54 mOhm	3.54
Mosfet B	33.0 mV	8.96 A	0.296 W	33.0 mV	0.296 W	3.68 mOhm	3.68
PCB to -	25.8 mV	8.95 A	0.231 W	25.8 mV	0.231 W	2.88 mOhm	2.88
Connector	10.6 mV	8.95 A	0.095	10.6 mV	0.095 W	1.18 mOhm	1.18
Black wire (-)	2.1 mV	8.94 A	0.019 W			mOhm	0.23
			Sum:	191.9 mV	1.728 W	21.310 mOhm	

At the end of measuring, temperatures were taken

Blade fuse 50.2 C Mosfet A 48.3 C Mosfet B 47.4 C Buttom of PCB 46.8 C

Connector 41.4 C 42.0 C 40.9 C 39.8 C

Board 144C, Blade fuse on wire, PSU 24,5V

(15A blade fuse)

(15A blade fuse)							
Mosfet: 2x IRLR7843				'Soldered to'/	heats PCB		
Red wire (+)	3.0 mV	5.07 A	0.015 W				0.59
Connector	3.6 mV	5.05 A	0.018	3.6 mV	0.018 W	0.71 mOhm	0.71 mOh
PCB	0.9 mV	5.01 A	0.005 W	0.9 mV	0.005 W	0.18 mOhm	0.18
Fuse only	24.0 mV	4.92 A	0.118 W			mOhm	4.88
Fuse and socket	mV	А	0.000 W			mOhm	###
PCB	2.1 mV	4.95 A	0.010 W	2.1 mV	0.010 W	0.42 mOhm	0.42
Connector	4.2 mV	4.92 A	0.021	4.2 mV	0.021 W	0.85 mOhm	0.85
Bed + (red wire)	5.8 mV	4.90 A	0.028 W			mOhm	1.18
Heat Bed	24.2 V	4.84 A	116.934 W				4.99 Ohm
Bed- (black wire)	4.2 mV	4.88 A	0.020 W			mOhm	0.86 mOh
Connector	4.0 mV	4.86 A	0.019	4.0 mV	0.019 W	0.82 mOhm	0.82
PCB to mosfet	1.6 mV	4.81 A	0.008 W	1.6 mV	0.008 W	0.33 mOhm	0.33
Mosfet A	15.7 mV	4.80 A	0.075 W	15.7 mV	0.075 W	3.27 mOhm	3.27
Mosfet B	16.3 mV	4.78 A	0.078 W	16.3 mV	0.078 W	3.41 mOhm	3.41
PCB to -	14.0 mV	4.78 A	0.067 W	14.0 mV	0.067 W	2.93 mOhm	2.93
Connector	3.4 mV	4.77 A	0.016	3.4 mV	0.016 W	0.71 mOhm	0.71
Black wire (-)	1.7 mV	4.77 A	W 800.0			mOhm	0.36
			Sum:	65.8 mV	0.317 W	13.649 mOhm	

At the end of measuring, temperatures were taken

Blade fuse 33.7 C Mosfet A 43.7 C 41.0 C Mosfet B

Buttom of PCB С Warm, but not hot, to touch.

85.2 C Bed

Board 144C, Blade fuse in PCB sockets, PSU 24,5V

(15A blade fuse) Mosfet: 2x IRLR7843

Mosfet: 2x IRLR784	3			'Soldered to'/	heats PCB		
Red wire (+)	3.0 mV	4.89 A	0.015 W				0.61
Connector	4.9 mV	4.86 A	0.024	4.9 mV	0.024 W	1.01 mOhm	1.01 mOh
PCB	1.6 mV	4.84 A	0.008 W	1.6 mV	0.008 W	0.33 mOhm	0.33
Fuse only	25.4 mV	4.81 A	0.122 W			mOhm	5.28
Fuse and socket	27.1 mV	4.80 A	0.130 W			mOhm	5.65
PCB	1.4 mV	4.79 A	0.007 W	1.4 mV	0.007 W	0.29 mOhm	0.29
Connector	4.2 mV	4.77 A	0.020	4.2 mV	0.020 W	0.88 mOhm	0.88
Bed + (red wire)	4.8 mV	4.77 A	0.023 W			mOhm	1.01
Heat Bed	24.2 V	4.76 A	115.335 W				5.09 Ohm
Bed- (black wire)	4.9 mV	4.74 A	0.023 W			mOhm	1.03 mOh
Connector	5.2 mV	4.73 A	0.025	5.2 mV	0.025 W	1.10 mOhm	1.10
PCB to mosfet	2.0 mV	4.73 A	0.009 W	2.0 mV	0.009 W	0.42 mOhm	0.42
Mosfet A	16.2 mV	4.72 A	0.076 W	16.2 mV	0.076 W	3.43 mOhm	3.43
Mosfet B	16.8 mV	4.72 A	0.079 W	16.8 mV	0.079 W	3.56 mOhm	3.56
PCB to -	13.1 mV	4.71 A	0.062 W	13.1 mV	0.062 W	2.78 mOhm	2.78
Connector	5.6 mV	4.71 A	0.026	5.6 mV	0.026 W	1.19 mOhm	1.19
Black wire (-)	0.9 mV	4.71 A	0.004 W			mOhm	0.19
			Sum:	71 mV	0.336 W	14.996 mOhm	

At the end of measuring, temperatures were taken

Blade fuse 39.8 C Mosfet A 44.0 C Mosfet B 42.0 C

Buttom of PCB 43.0 C Quite warm to the touch

Bed 90.5 C

Board 144C(optimized PCB), Blade fuse in PCB sockets, PSU 12,5V

(15A blade fuse)

Mosfet: 2x IRLR784			'Soldered to'/l	heats PCB			
Red wire (+)	4.5 mV	10.00 A	0.045 W				0.45
Connector	9.0 mV	10.00 A	0.090	9.0 mV	0.090 W	0.90 mOhm	0.90 mOh
PCB	0.8 mV	10.00 A	0.008 W	0.8 mV	0.008 W	0.08 mOhm	80.0
Fuse only	mV	10.00 A	0.000 W			mOhm	0.00
Fuse and socket	60.0 mV	10.00 A	0.600 W			mOhm	6.00
PCB	1.0 mV	10.00 A	0.010 W	1.0 mV	0.010 W	0.10 mOhm	0.10
Connector	8.1 mV	10.00 A	0.081	8.1 mV	0.081 W	0.81 mOhm	0.81
Bed + (red wire)	mV	10.00 A	0.000 W			mOhm	0.00
Heat Bed	V	10.00 A	0.000 W				0.00 Ohm
Bed- (black wire)	mV	10.00 A	0.000 W			mOhm	0.00 mOh
Connector	8.6 mV	10.00 A	0.086	8.6 mV	0.086 W	0.86 mOhm	0.86
PCB to mosfet	4.1 mV	10.00 A	0.041 W	4.1 mV	0.041 W	0.41 mOhm	0.41
Mosfet A	36.5 mV	10.00 A	0.365 W	36.5 mV	0.365 W	3.65 mOhm	3.65
Mosfet B	35.5 mV	10.00 A	0.355 W	35.5 mV	0.355 W	3.55 mOhm	3.55
PCB to -	35.5 mV	10.00 A	0.355 W	35.5 mV	0.355 W	3.55 mOhm	3.55
Connector	6.3 mV	9.97 A	0.063	6.3 mV	0.063 W	0.63 mOhm	0.63
Black wire (-)	mV	A	0.000 W			mOhm	###
			Sum:	145.4 mV	1.454 W	14.542 mOhm	

At the end of measuring, temperatures were taken

 Blade fuse
 39.4 C

 Mosfet A
 44.6 C

 Mosfet B
 45.0 C

Connector 40.0 40.2 38.9 38.0

Buttom of PCB 37.8 C Bed 71.0 C