Table S1. List of species measured in the oxidation of *n*-heptanol

m/z	Formula	Species Name	IE (eV)	
			Literature [1]	This work
16	CH_4	Methane	12.61	-
18	H_2O	Water	12.621	-
26	C_2H_2	Acetylene	11.4	11.5
28	C_2H_4	Ethene	10.51	11.27
	CO	Monoxide Carbon	14.014	-
30	CH_2O	Formaldehyde	10.88	10.9
32	O_2	Oxygen	12.0697	-
34	H_2O_2	Hydrogen peroxide	10.58	10.65
40	C_3H_4	Allene	9.69	
	C_3H_4	Propyne	10.36	10.35
42	C_3H_6	Propene	9.73	9.72
	CO_2	Carbon dioxide	13.777	-
44	C_2H_4O	Acetaldehyde	10.23	10.2
	C_2H_4O	Ethenol	9.33	9.31
54	C_4H_6	1,3-Butadiene	9.072	9.06
56	C_4H_8	1-Butene	9.55	9.55
	C_3H_6O	2-Propenal	10.11	10.10
58	C_3H_8O	Propanal	9.96	9.94
70	C_5H_{10}	1-Pentene	9.49	9.47
	C_4H_6O	2-Butenal	9.75	9.73
72	C_4H_8O	*n*-Butanal	9.82	9.79
84	C_6H_{12}	1-Hexene	9.44	9.42
	C_6H_{12}	*trans*-2-Hexene	8.97	8.95
	$C_5H_{10}O$	2-Methyltetrahydrofuran	9.22	9.21
86	$C_5H_{10}O$	Tetrahydropyran	9.25	9.24
	$C_5H_{10}O$	Pentanal	9.74	9.73
98	C_7H_{14}	1-Heptene	9.38	9.33
100	$C_6H_{12}O$	Hexanal	9.72	9.71
110	$C_7H_{16}O$	*n*-Heptanol	9.84	9.83