

**Additional file S4.** Top-five mass peak list per mosquito species using legs.

MS peak number§	m/z (Da)	Average peak intensity (a.u.)*										
		<i>Cx. declarator</i>	<i>Cx. dunni</i>	<i>Cx. eastor</i>	<i>Cx. idottus</i>	<i>Cx. nigripalpus</i>	<i>Cx. pedroi</i>	<i>Cx. portesi</i>	<i>Cx. quinquefasciatus</i>	<i>Cx. rabanicolus</i>	<i>Cx. spissipes</i>	<i>Cx. usquatus</i>
1	2952.56	3.28	<b>9.56</b>	8.07	5.35	4.54	7.61	5.13	2.55	9.58	3.54	2.35
2	3108.38	<b>9.41</b>	<b>10.95</b>	<b>12.12</b>	<b>7.56</b>	7.31	<b>9.63</b>	<b>10.94</b>	4.51	8.82	<b>10.24</b>	4.23
3	3125.26	4.48	<b>9.35</b>	6.14	6.45	4.89	<b>13.4</b>	5.49	4.7	<b>12.39</b>	6.72	3.38
4	3136.01	6.4	5.43	5.93	7.16	<b>18.87</b>	5.62	4.97	2.65	7.37	4.75	7.36
5	3443.81	6.09	8.27	7.58	5.32	11.06	<b>14.45</b>	6.87	2.87	8.62	3.55	2.77
6	4073.42	3.47	7.8	10.18	<b>9.47</b>	4.52	3.56	3.11	3.31	5.47	5.6	2.66
7	4099.27	4.21	5.36	4.64	4.12	9.42	5.74	3.91	<b>12.16</b>	5.9	2.44	3.68
8	4283.69	8.89	8.95	<b>10.63</b>	<b>7.28</b>	8.47	7.32	5.69	8.04	5.75	5.19	<b>12.81</b>
9	4532.03	4.98	8.1	<b>12.9</b>	<b>10.5</b>	5.66	3.07	3.76	5.64	<b>11.9</b>	5.12	5.38
10	4563.79	3.56	<b>29.32</b>	<b>17.56</b>	2.76	5.65	<b>10.57</b>	4.91	3.29	<b>14.82</b>	5.08	3.72
11	4590.63	3.29	5.77	4.41	2.26	2.45	6.1	<b>31.4</b>	1.76	5.35	<b>15.83</b>	2.41
12	4606.79	2.65	4.22	4	2.4	1.66	<b>31.48</b>	8.17	1.49	2.31	5.21	1.61
13	4686.19	<b>16.14</b>	1.97	1.87	2.24	<b>16.86</b>	1.79	1.68	<b>34.52</b>	1.61	2.01	2.64
14	4695	<b>17.73</b>	2.52	2.16	2.45	<b>25.77</b>	1.42	1.93	<b>8.32</b>	1.88	1.63	2.94
15	4721.48	<b>30.21</b>	2.8	2.55	4.24	<b>17.64</b>	2.12	1.83	5.13	3	2.22	<b>10.36</b>
16	4819.94	5.24	<b>14.05</b>	<b>10.78</b>	2.33	5.06	4.76	6.17	<b>10.43</b>	2.65	2.06	7.43
17	4933.81	5.23	4.22	5.21	2.09	3.96	3.94	4.19	1.8	2.67	<b>17.72</b>	3.87
18	4974.12	1.85	1.87	2.09	<b>11.15</b>	3.34	1.62	1.69	4.06	<b>15.83</b>	2.14	6.51
19	5206.88 <sup>#</sup>	<b>12.73</b>	2.15	3.09	2.15	<b>14</b>	3.42	7.35	7.33	3.95	2.25	4.97
20	5405.69 <sup>#</sup>	2.16	8.2	9.42	6.26	1.8	1.59	<b>9.17</b>	1.28	6.16	1.56	4.35
21	5495.25	3.32	4.92	5.88	3.55	2.62	5.86	<b>11.26</b>	3.3	4.89	6.45	3.12
22	5616.4	2.28	1.46	1.44	2.42	1.28	1.95	<b>14.95</b>	2.47	2.11	2.24	1.53
23	6427.33 <sup>#</sup>	3.13	1.53	1.64	1.39	1.7	4.74	2.76	<b>12.08</b>	1.1	0.83	2.35
24	6811.21	7.1	1.13	1.19	1.09	6.52	3.92	3.66	6.01	0.8	1.02	<b>9.51</b>
25	7447.78	5.27	1.5	0.96	1.45	7.02	0.92	1.15	7.7	1.15	1.56	<b>19.05</b>
26	7856.69	4.96	5.73	6.41	2.9	4.78	6.33	5.05	5.58	4.78	<b>10.19</b>	2.63
27	8232.11	5.33	1.39	1.31	0.92	1.53	0.77	1.52	7.38	0.66	2.07	<b>8.78</b>

28	8658.23	2.95	0.91	0.99	1.86	1.73	0.87	1.43	3.57	<b>10.6</b>	1.2	1.26
29	8801.36	0.62	0.67	0.69	1.1	0.5	0.58	1.48	0.68	1.65	<b>8.73</b>	0.69

§List of MS peaks used to distinct *Culex* species based on the Genetic Algorithm model analysis of ClinProTools. \*The top-five mass peaks per *Culex* species are indicated in bold. #MS peaks for which mass-to-charge ratio (m/z) were similar with thorax top-five MS peak list (see Additional file S4). Da: Daltons; m/z: mass to charge; a.u.: arbitrary unit.