

			Strap #1	Strap #1	Strap #2	Strap #2
Respirator	Respirator	Sample #	UVGI	Maximum	UVGI	Maximum
manufacturer	Model		dose	Load	dose	Load
			(mJ/cm2)	(N)	(mJ/cm2)	(N)
3M	1860	1	0	47.99	590	78.52
3M	1860	2	0	84.95	590	68.64
3M	1860	3	0	76.83	590	68.05
3M	1860	4	0	80.03	590	72.45
3M	1860	5	0	80.97	590	65.21
3M	1860	6	0	75.94	590	63.89
3M	1860	7	0	75.83	590	63.91
3M	1860	8	0	73.8	590	63.02
3M	1860	1	0	86	1180	59.56
3M	1860	2	0	89.5	1180	57.63
3M	1860	3	0	69.66	1180	76
3M	1860	4	0	69.66	1180	72.72
3M	1860	5	0	84.84	1180	66.09
3M	1860	6	0	90.04	1180	58.8
3M	1860	7	0	73	1180	74.56
3M	1860	8	0	84.94	1180	64.95
3M	1860	1	0	84.41	2360	52.5
3M	1860	2	0	63.36	2360	62.45
3M	1860	3	0	91.16	2360	59.52
3M	1860	4	0	65.44	2360	60.6
3M	1860	5	0	72.4	2360	61.87
3M	1860	6	0	67.62	2360	61.48
3M	1860	7	0	89.48	2360	57.75
3M	1860	8	0	73.08	2360	60.09
3M	9210	1	0	16.67	590	14.68
3M	9210	2	0	15.23	590	11.32
3M	9210	3	0	18.6	590	15.33
3M	9210	4	0	14.76	590	15.5
3M	9210	5	0	17.09	590	12.94
3M	9210	6	0	15.48	590	12.71
3M	9210	7	0	15.93	590	13.22
3M	9210	8	0	16.43	590	15.9
3M	9210	1	0	14.23	1180	12.08
3M	9210	2	0	14.49	1180	14.14
3M	9210	3	0	16.03	1180	12.21
3M	9210	4	0	15.21	1180	13.63
3M	9210	5	0	15.04	1180	11.62
3M	9210	6	0	16.7	1180	12.55
3M	9210	7	0	16.05	1180	11.79
3M	9210	8	0	15.56	1180	10.92
3M	9210	1	0	14.65	2360	11.55
3M	9210	2	0	12.87	2360	13.14
3M	9210	3	0	14.88	2360	13.15

3M	9210	4	0	15.04	2360	11.99
3M	9210	5	0	14.96	2360	12.09
3M	9210	6	0	14.81	2360	10.99
3M	9210	7	0	16.12	2360	12.68
3M	9210	8	0	14.04	2360	13.38
Gerson	1730	1	0	91.63	590	74.69
Gerson	1730	2	0	75.53	590	73.83
Gerson	1730	3	0	71.6	590	48.26
Gerson	1730	4	0	78.8	590	76.15
Gerson	1730	5	0	82.28	590	64.32
Gerson	1730	6	0	87.13	590	38.96
Gerson	1730	7	0	78.71	590	79.16
Gerson	1730	8	0	84.23	590	77.71
Gerson	1730	1	0	74.82	1180	66.06
Gerson	1730	2	0	87.21	1180	56.74
Gerson	1730	3	0	78.18	1180	66.34
Gerson	1730	4	0	86.43	1180	60.18
Gerson	1730	5	0	83.37	1180	64.04
Gerson	1730	6	0	91.68	1180	66.26
Gerson	1730	7	0	92.27	1180	70.28
Gerson	1730	8	0	95.6	1180	59.03
Gerson	1730	1	0	78.05	2360	42.53
Gerson	1730	2	0	79.44	2360	37.26
Gerson	1730	3	0	84.78	2360	43.06
Gerson	1730	4	0	90.05	2360	27.99
Gerson	1730	5	0	90.5	2360	47.28
Gerson	1730	6	0	92.77	2360	51.98
Gerson	1730	7	0	85.76	2360	46.97
Gerson	1730	8	0	89.19	2360	33.63
Kimberly-Clark	46727	1	0	55.41	590	37.04
Kimberly-Clark	46727	2	0	52.15	590	38.12
Kimberly-Clark	46727	3	0	52.15	590	41.03
Kimberly-Clark	46727	4	0	54.84	590	39.89
Kimberly-Clark	46727	5	0	54.24	590	39.57
Kimberly-Clark	46727	6	0	53.88	590	38.46
Kimberly-Clark	46727	7	0	53.43	590	37.37
Kimberly-Clark	46727	8	0	52.13	590	41.22
Kimberly-Clark	46727	1	0	50.98	1180	35.5
Kimberly-Clark	46727	2	0	56.43	1180	33.21
Kimberly-Clark	46727	3	0	49.5	1180	36.75
Kimberly-Clark	46727	4	0	31.7	1180	33.96
Kimberly-Clark	46727	5	0	40.66	1180	26.1
Kimberly-Clark	46727	6	0	22.28	1180	37.26
Kimberly-Clark	46727	7	0	55.61	1180	24.54
Kimberly-Clark	46727	8	0	42.02	1180	32.13
Kimberly-Clark	46727	1	0	51.33	2360	29.83
Kimberly-Clark	46727	2	0	40.04	2360	30.58

Kimberly-Clark	46727	3	0	41.08	2360	33.44
Kimberly-Clark	46727	4	0	36.99	2360	34.36
Kimberly-Clark	46727	5	0	42.39	2360	36.96
Kimberly-Clark	46727	6	0	44.27	2360	30.48
Kimberly-Clark	46727	7	0	20.88	2360	34.46
Kimberly-Clark	46727	8	0	24.73	2360	36.36

							Flow	Flow	Maximum	Maximum	Most
							Resistance	Resistance	particle	particle	particle
							Before UV	After UV	Before UV	After UV	MPPS
Sample	Respirator	Respirator				UV dose	Before UV	After UV	Before UV	After UV	Before
Code	Manufacturer	model #	Lot #	Coupon #	Set #	(J/cm2)	(mm H2O)	(mm H2O)	(%)	(%)	(μ m)
18-1-1	3M	1860	A12296	1	1	0	9.052	9.024	1.5	1.2	0.05
18-2-1	3M	1860	A12296	2	1	0	8.518	8.508	1.7	1.4	0.05
18-3-1	3M	1860	A12296	3	1	0	9.653	9.7	1.9	1.6	0.05
18-4-1	3M	1860	A12296	4	1	0	11.566	11.536	1.2	1.1	0.05
92-1-1	3M	9210	A121773	1	1	0	10.952	10.954	0.62	0.58	0.02
92-2-1	3M	9210	A121773	2	1	0	10.846	10.942	0.58	0.67	0.02
92-3-1	3M	9210	A121773	3	1	0	10.31	10.385	0.83	0.84	0.04
92-4-1	3M	9210	A121773	4	1	0	9.207	9.298	0.98	1	0.04
GE-1-1	Gerson	1730	128A	1	1	0	9.563	9.655	3.6	2.9	0.05
GE-2-1	Gerson	1730	128A	2	1	0	9.228	9.3	3.5	3	0.084
GE-3-1	Gerson	1730	128A	3	1	0	9.216	9.298	3.9	3.8	0.089
GE-4-1	Gerson	1730	128A	4	1	0	9.124	9.205	3.7	3.7	0.05
KC-1-1	Kimberly-Clark	46727	A83	1	1	0	16.372	16.579	4.4	4.2	0.114
KC-2-1	Kimberly-Clark	46727	A83	2	1	0	20.643	20.826	2.7	2.9	0.095
KC-3-1	Kimberly-Clark	46727	A83	3	1	0	18.313	18.418	4.1	3.9	0.121
KC-4-1	Kimberly-Clark	46727	A83	4	1	0	19.865	20.011	3	2.7	0.101
18-1-2	3M	1860	A12296	1	2	470	8.752	8.804	1.6	1.4	0.05
18-2-2	3M	1860	A12296	2	2	470	8.674	8.791	1.7	1.4	0.05
18-3-2	3M	1860	A12296	3	2	470	7.989	7.976	1.7	1.9	0.05
18-4-2	3M	1860	A12296	4	2	470	8.491	8.54	1.5	1.9	0.05
92-1-2	3M	9210	A121773	1	2	470	11.773	12.231	0.6	0.73	0.04
92-2-2	3M	9210	A121773	2	2	470	9.129	9.613	0.94	1.4	0.04
92-3-2	3M	9210	A121773	3	2	470	10.314	10.698	0.47	1	0.04
92-4-2	3M	9210	A121773	4	2	470	10.819	11.425	0.51	0.91	0.04
GE-1-2	Gerson	1730	128A	1	2	470	9.583	9.58	3.7	5	0.084
GE-2-2	Gerson	1730	128A	2	2	470	9.81	9.751	3.9	4.9	0.089
GE-3-2	Gerson	1730	128A	3	2	470	9.758	9.561	3.1	4.3	0.079
GE-4-2	Gerson	1730	128A	4	2	470	8.938	8.774	3.5	5	0.089
KC-1-2	Kimberly-Clark	46727	A83	1	2	470	17.267	16.747	3.1	4.1	0.089
KC-2-2	Kimberly-Clark	46727	A83	2	2	470	17.285	17.213	4.2	5	0.121
KC-3-2	Kimberly-Clark	46727	A83	3	2	470	19.219	18.642	2.8	4	0.089

KC-4-2	Kimberly-Clark	46727	A83	4	2	470	18.761	18.282	3.9	4.7	0.114
18-1-3	3M	1860	A12296	1	3	950	10.299	10.285	1.4	1.4	0.05
18-2-3	3M	1860	A12296	2	3	950	8.563	8.727	2.1	2.1	0.05
18-3-3	3M	1860	A12296	3	3	950	9.009	9.211	2.1	1.7	0.04
18-4-3	3M	1860	A12296	4	3	950	9.566	9.744	1.8	1.6	0.04
92-1-3	3M	9210	A121773	1	3	950	11.155	10.472	0.56	0.73	0.04
92-2-3	3M	9210	A121773	2	3	950	11.433	10.563	0.65	0.79	0.04
92-3-3	3M	9210	A121773	3	3	950	9.86	9.748	0.86	0.8	0.04
92-4-3	3M	9210	A121773	4	3	950	11.269	10.577	0.81	0.86	0.04
GE-1-3	Gerson	1730	128A	1	3	950	8.413	8.217	4.5	4.5	0.05
GE-2-3	Gerson	1730	128A	2	3	950	9.837	9.573	3.7	3.3	0.05
GE-3-3	Gerson	1730	128A	3	3	950	8.755	8.671	3.8	3.8	0.05
GE-4-3	Gerson	1730	128A	4	3	950	9.484	9.405	3.7	3.6	0.089
KC-1-3	Kimberly-Clark	46727	A83	1	3	950	17.668	17.756	4.1	4.9	0.114
KC-2-3	Kimberly-Clark	46727	A83	2	3	950	16.645	15.774	2.8	3.6	0.089
KC-3-3	Kimberly-Clark	46727	A83	3	3	950	18.329	18.039	3.8	4.6	0.121
KC-4-3	Kimberly-Clark	46727	A83	4	3	950	16.975	16.201	3	3.8	0.095
									3.425	4.225	
18-1-4	3M	1860	A12296	1	4	710	8.588	8.856	1.3	2.3	0.05
18-2-4	3M	1860	A12296	2	4	710	8.554	8.668	1.3	2	0.04
18-3-4	3M	1860	A12296	3	4	710	11.696	11.718	0.91	1.1	0.05
18-4-4	3M	1860	A12296	4	4	710	10.565	10.555	1.1	1.5	0.05
92-1-4	3M	9210	A121773	1	4	710	11.133	10.765	0.71	0.63	0.04
92-2-4	3M	9210	A121773	2	4	710	11.433	11.185	0.51	0.8	0.02
92-3-4	3M	9210	A121773	3	4	710	9.568	9.022	0.67	1.9	0.05
92-4-4	3M	9210	A121773	4	4	710	9.16	9.394	0.88	1.2	0.05
GE-1-4	Gerson	1730	128A	1	4	710	10.755	10.396	2.7	3.1	0.095
GE-2-4	Gerson	1730	128A	2	4	710	9.477	9.262	4.4	4.6	0.101
GE-3-4	Gerson	1730	128A	3	4	710	9.539	9.295	4.5	4.1	0.05
GE-4-4	Gerson	1730	128A	4	4	710	9.764	9.491	3.7	3.5	0.089
KC-1-4	Kimberly-Clark	46727	A83	1	4	710	19.76	19.099	2.8	3.5	0.1
KC-2-4	Kimberly-Clark	46727	A83	2	4	710	19.487	18.99	4.3	4.8	0.114
KC-3-4	Kimberly-Clark	46727	A83	3	4	710	17.803	16.841	2.7	4	0.084
KC-4-4	Kimberly-Clark	46727	A83	4	4	710	15.973	15.737	4.1	5.1	0.114
18-1-5	3M	1860	A12296	1	5	120	9.668	9.754	1.4	1.8	0.05

18-2-5	3M	1860	A12296	2	5	120	8.105	7.987	1.9	1.8	0.05
18-3-5	3M	1860	A12296	3	5	120	8.595	8.515	2	2.4	0.05
18-4-5	3M	1860	A12296	4	5	120	7.178	7.142	2.6	2.6	0.05
92-1-5	3M	9210	A121773	1	5	120	10.105	10.031	0.78	0.82	0.04
92-2-5	3M	9210	A121773	2	5	120	9.945	9.992	0.64	0.76	0.04
92-3-5	3M	9210	A121773	3	5	120	11.086	11.169	0.51	0.5	0.04
92-4-5	3M	9210	A121773	4	5	120	10.961	10.915	1.1	0.94	0.04
GE-1-5	Gerson	1730	128A	1	5	120	10.174	10.218	3.2	3.8	0.075
GE-2-5	Gerson	1730	128A	2	5	120	8.898	8.862	3	4	0.07
GE-3-5	Gerson	1730	128A	3	5	120	11.821	11.905	3	3.3	0.079
GE-4-5	Gerson	1730	128A	4	5	120	9.948	9.939	3.1	3.6	0.079
KC-1-5	Kimberly-Clark	46727	A83	1	5	120	18.289	18.013	3.1	3.3	0.08
KC-2-5	Kimberly-Clark	46727	A83	2	5	120	18.146	18.061	4.1	4.4	0.107
KC-3-5	Kimberly-Clark	46727	A83	3	5	120	19.679	19.406	3.2	3.2	0.084
KC-4-5	Kimberly-Clark	46727	A83	4	5	120	16.755	16.861	4.4	5.3	0.101
18-1-6	3M	1860	A12296	1	6	240	8.678	8.667	1.9	3	0.05
18-2-6	3M	1860	A12296	2	6	240	9.039	8.936	2	2.7	0.05
18-3-6	3M	1860	A12296	3	6	240	9.668	9.573	1.5	2.4	0.05
18-4-6	3M	1860	A12296	4	6	240	8.497	8.418	1.6	2.2	0.05
92-1-6	3M	9210	A121773	1	6	240	12.163	12.091	0.33	0.6	0.05
92-2-6	3M	9210	A121773	2	6	240	9.249	9.291	1.7	1.7	0.05
92-3-6	3M	9210	A121773	3	6	240	11.184	11.356	0.75	1	0.04
92-4-6	3M	9210	A121773	4	6	240	9.311	9.482	1.1	1.4	0.04
GE-1-6	Gerson	1730	128A	1	6	240	8.936	8.9	4.3	5.2	0.05
GE-2-6	Gerson	1730	128A	2	6	240	9.919	9.786	3.1	4.4	0.05
GE-3-6	Gerson	1730	128A	3	6	240	10.19	10.089	4.2	5.3	0.05
GE-4-6	Gerson	1730	128A	4	6	240	10.915	11.008	4.1	4.9	0.05
KC-1-6	Kimberly-Clark	46727	A83	1	6	240	19.631	19.236	3.6	4.2	0.075
KC-2-6	Kimberly-Clark	46727	A83	2	6	240	17.914	18.033	4.8	4.9	0.089
KC-3-6	Kimberly-Clark	46727	A83	3	6	240	18.017	17.981	4.8	5.2	0.095
KC-4-6	Kimberly-Clark	46727	A83	4	6	240	16.684	16.69	3.7	3.5	0.05

<i>penetrating</i>				
<i>size (MPPS)</i>	<i>Burst</i>	<i>strength</i>		
<i>MPPS</i>	<i>after UV</i>	<i>exposure</i>		
<i>After</i>	<i>Layer 1</i>	<i>Layer 2</i>	<i>Layer 3</i>	<i>Layer 4</i>
<i>(μm)</i>	<i>(N)</i>	<i>(N)</i>	<i>(N)</i>	<i>(N)</i>
0.05	88.22	15.514	218.564	
0.066	93.002	12.733	224.11	
0.079	102.121	12.062	312.67	
0.04	91.028	15.066	238.75	
0.04	72.936	248.237	30.438	
0.03	87.157	124.747	30.342	
0.04	91.477	285.574	26.92	
0.04	81.802	199.34	25.306	
0.089	170.735	10.962	157.229	
0.084	216.148	10.35	136.643	
0.084	113.166	11.653	106.358	
0.095	166.708	10.211	152.488	
0.114	47.452	44.422	15.655	12.732
0.084	50.404	44.303	14.702	13.732
0.121	53.633	42.938	9.627	32.952
0.095	45.77	45.441	15.261	6.52
0.05	31.303	5.203	272.996	
0.05	29.337	5.078	214.667	
0.05	38.949	5.385	213.698	
0.05	36.527	4.878	191.536	
0.04	11.826	86.009	0.952	
0.05	5.819	35.24	0.275	
0.04	5.984	35.851	0.366	
0.04	8.774	47.923	0.61	
0.05	108.13	4.201	93.468	
0.05	137.314	5.106	133.999	
0.05	124.026	8.502	147.634	
0.05	103.855	12.56	109.378	
0.075	3.212	0.807	13.748	5.012
0.101	16.833	2.155	15.343	6.051
0.079	3.763	0.73	14.231	5.938

0.101	9.357	2.132	15.069	7.134
0.05	10	0.22	103.18	
0.075	9.152	0.503	204.34	
0.075	5.031	0.535	232.439	
0.05	7.574	1.013	289.31	
0.04	0.99	7.158	0.061	
0.04	1.264	12.132	0.102	
0.03	1.12	8.661	0.161	
0.04	1.727	7.556	0.11	
0.089	105.844	0.341	83.402	
0.089	130.35	1.833	96.477	
0.101	111.005	0.323	76.713	
0.095	85.229	0.509	124.026	
0.2	0.966	0.234	14.536	11.309
0.095	0.567	0.089	13.609	3.329
0.2	0.867	0.246	15.02	4.289
0.107	0.367	0.061	13.204	4.475
0.05	9.126	1.219	171.369	
0.05	6.254	0.379	173.06	
0.05	5.621	2.21	340.238	
0.05	12.074	2.301	215.049	
0.04	1.246	6.499	0.317	
0.04	1.288	5.893	0.173	
0.023	0.883	3.92	0.08	
0.04	0.736	9.031	0.161	
0.075	134.785	3.03	127.731	
0.089	105.506	0.806	114.714	
0.05	92.457	2.327	86.338	
0.095	121.51	4.032	130.157	
0.1	1.159	0.557	14.339	5.139
0.101	2.648	1.058	15.248	8.019
0.05	1.448	0.434	15.305	6.785
0.101	2.416	1.068	15.125	7.348
0.04	77.756	16.846	192.739	

0.05	91.559	11.726	152.727	
0.05	96.878	14.072	132.425	
0.05	67.888	13.839	171.106	
0.04	63.642	167.446	16.474	
0.04	81.322	148.432	19.827	
0.04	84.906	155.665	19.391	
0.04	74.853	166.581	19.266	
0.05	128.619	9.06	125.625	
0.05	91.386	9.811	105.766	
0.05	120.9	8.131	134.539	
0.05	109.084	11.269	152.761	
0.079	45.396	39.808	16.547	10.264
0.107	41.588	44.367	16.352	7.957
0.089	50.73	38.089	15.668	14.274
0.06	50.006	41.43	15.948	5.951
0.04	62.515	7.763	233.598	
0.04	78.007	10.241	178.94	
0.04	80.08	13.361	189.653	
0.04	71.925	10.72	141.6	
0.04	41.094	76.887	8.198	
0.025	43.825	145.671	7.404	
0.023	36.596	79.627	9.816	
0.04	38.527	113.279	8.217	
0.05	123.08	7.175	67.383	
0.05	126.871	10.93	97.643	
0.05	67.898	7.749	164.208	
0.05	99.118	8.355	130.561	
0.05	36.258	16.971	15.716	12.704
0.089	28.559	31.917	15.342	11.836
0.095	30.722	21.294	16.17	8.394
0.075	18.7	12.91	17.108	9.408