

## 4.0 Results

### VOC'S

Samples with 8-hour regulators

Samples 8-1 and 8-2 – collection prior to dry hydrogen peroxide operation

Samples 8-3 and 8-4 – collection during dry hydrogen peroxide operation

Compound	Sample 8-1 Result (ppb)	Sample 8-2 Result (ppb)	Sample 8-3 Result (ppb)	Sample 8-4 Result (ppb)	Total Difference (ppb)
Freon 12	15	16	14	14	-3
Chloromethane	1.0	0.99	0.92	0.82	-0.25
n-Butane	0.92	0.94	0.68	0.68	-0.5
Ethanol	25	22	25	23	1
Freon 11	0.52	-	0.81	0.70	0.99
Isopropyl alcohol	7.3	6.3	6.2	5.5	-1.9
Acetone	33	29	27	24	-11
Acetonitrile	11	8.7	1.0	0.75	-17.95
Tertiary butyl alcohol	0.73	0.57	0.55	0.51	-0.24
2-Butanone	2.6	2.5	2.3	2.0	-0.8
Ethyl acetate	6.4	5.2	2.3	3.0	-6.3
Toluene	0.71	0.69	-	0.56	-0.84
Acetaldehyde	3.8	4.0	3.2	3.1	-1.5
1-Propanol, 2-methyl	-	-	-	4.3	4.3
1-Butanol	5.6	5.5	5.0	6.2	0.1
2-Pentanone	1.2	1.2	-	-	-2.4
Hexanal	1.3	1.3	1.1	1.0	-0.5
Benzaldehyde	2.0	1.9	1.6	1.6	-0.7
Ethane 2,2-dichloro-1,1,1-trifluoro-	-	1.6	-	-	-1.6
<b>Total VOC's w/ TIC's</b>	<b>110</b>	<b>110</b>	<b>92</b>	<b>92</b>	<b>-39</b>

Note: The total VOC concentrations referenced include tentatively identified compounds. All totals rounded to 3 significant figures.



Samples with 24-hour regulators

Samples 24-1 and 24-2 – collection prior to dry hydrogen peroxide operation

Samples 24-3 and 24-4 – collection during dry hydrogen peroxide operation

Compound	Sample 24-1 Result (ppb)	Sample 24-2 Result (ppb)	Sample 24-3 Result (ppb)	Sample 24-4 Result (ppb)	Total Difference (ppb)
Freon 12	14	13	13	13	-1
Chloromethane	0.93	0.97	0.82	0.85	-0.23
n-Butane	0.74	0.76	0.69	0.74	-0.07
Ethanol	17	21	20	22	4
Freon 11	-	0.55	0.85	0.85	1.15
Isopropyl alcohol	5.7	6.4	11	6.7	5.6
Acetone	25	27	26	26	0
Acetonitrile	4.2	4.3	0.69	0.70	-7.11
Tertiary butyl alcohol	0.60	0.62	0.60	0.57	-0.05
2-Butanone	3.2	2.8	1.9	2.0	-2.1
Ethyl acetate	3.4	4.1	1.7	2.0	-3.8
Toluene	0.53	0.58	0.57	0.52	-0.02
Acetaldehyde	3.4	3.4	3.0	3.0	-0.8
1-Butanol	4.7	4.6	4.6	4.8	0.1
2-Pentanone	1.0	1.0	-	-	-2
Hexanal	1.1	-	-	1.0	-0.1
Benzaldehyde	1.8	1.4	1.4	1.6	-0.2
<b>Total VOC's w/ TIC's</b>	<b>89</b>	<b>92</b>	<b>87</b>	<b>86</b>	<b>-8</b>

Note: The total VOC concentrations referenced include tentatively identified compounds. All totals rounded to 3 significant figures.