

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102425\
 Data File : VY023581.D
 Acq On : 24 Oct 2025 18:20
 Operator : SY/MD
 Sample : Q3419-03MSD
 Misc : 5.82g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PR-132-S16-015094-20251021MSD

Quant Time: Oct 24 23:57:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/27/2025
 Supervised By :Mahesh Dadoda 10/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.713	168	173647	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	245581	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	157959	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	48940	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	79397	54.679	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.360%			
35) Dibromofluoromethane	7.640	113	69999	46.388	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 92.780%			
50) Toluene-d8	10.109	98	194718	34.650	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 69.300%			
62) 4-Bromofluorobenzene	12.408	95	46316	24.964	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 49.920%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	79103	63.288	ug/l	99
3) Chloromethane	2.074	50	96244	56.525	ug/l	98
4) Vinyl Chloride	2.208	62	134030	60.435	ug/l	99
5) Bromomethane	2.605	94	53316	28.648	ug/l	97
6) Chloroethane	2.739	64	95948	63.470	ug/l	98
7) Trichlorofluoromethane	3.062	101	198070	64.324	ug/l	95
8) Diethyl Ether	3.458	74	66810	83.032	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	84002	52.571	ug/l	99
10) Methyl Iodide	4.013	142	19632	11.036	ug/l	99
11) Tert butyl alcohol	4.866	59	64307	595.297	ug/l	100
12) 1,1-Dichloroethene	3.793	96	99787	64.421	ug/l	99
13) Acrolein	3.659	56	2104	13.784	ug/l #	74
14) Allyl chloride	4.391	41	60022	31.795	ug/l	91
15) Acrylonitrile	5.061	53	172997	561.812	ug/l	98
16) Acetone	3.873	43	256528	742.075	ug/l	98
17) Carbon Disulfide	4.110	76	337360	76.096	ug/l	99
18) Methyl Acetate	4.385	43	249309	274.928	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	346226	93.001	ug/l	97
20) Methylene Chloride	4.622	84	123905	66.285	ug/l	98
21) trans-1,2-Dichloroethene	5.122	96	89197	52.303	ug/l	99
22) Diisopropyl ether	6.025	45	270915	64.879	ug/l	97
24) 1,1-Dichloroethane	5.921	63	183785	66.444	ug/l	99
25) 2-Butanone	6.896	43	259730	615.426	ug/l	100
26) 2,2-Dichloropropane	6.890	77	156385	61.616	ug/l	99
27) cis-1,2-Dichloroethene	6.903	96	118912	60.364	ug/l	97
28) Bromochloromethane	7.250	49	62830	60.847	ug/l	96
29) Tetrahydrofuran	7.268	42	146863	613.662	ug/l	95
30) Chloroform	7.427	83	207694	68.343	ug/l	97
31) Cyclohexane	7.707	56	69141	28.623	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	172234	62.365	ug/l	98
36) 1,1-Dichloropropene	7.841	75	107322	53.722	ug/l	99
37) Ethyl Acetate	6.988	43	60616	76.589	ug/l	97
38) Carbon Tetrachloride	7.823	117	90291	37.274	ug/l	97
39) Methylcyclohexane	9.109	83	48427	18.618	ug/l	96
40) Benzene	8.085	78	408926	64.635	ug/l	100
41) Methacrylonitrile	7.226	41	47920	111.951	ug/l	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,2-Dichloroethane	8.158	62	126898	77.773	ug/l	98
43) Isopropyl Acetate	8.201	43	135161	85.645	ug/l	97
44) Trichloroethene	8.872	130	105286	56.858	ug/l	99
45) 1,2-Dichloropropane	9.146	63	93324	66.784	ug/l	99
46) Dibromomethane	9.231	93	72267	81.785	ug/l	98
47) Bromodichloromethane	9.427	83	146364	65.769	ug/l	100
48) Methyl methacrylate	9.225	41	86669	116.898	ug/l	97
49) 1,4-Dioxane	9.231	88	26544	2590.939	ug/l	96
51) 4-Methyl-2-Pentanone	10.000	43	507478	622.382	ug/l	98
52) Toluene	10.170	92	209716	51.053	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	41168	21.275	ug/l	97
54) cis-1,3-Dichloropropene	9.859	75	34656	15.175	ug/l	98
55) 1,1,2-Trichloroethane	10.573	97	104391	87.853	ug/l	96
56) Ethyl methacrylate	10.439	69	100718	73.481	ug/l	96
57) 1,3-Dichloropropane	10.719	76	154240	81.916	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	281024	457.679	ug/l	98
59) 2-Hexanone	10.762	43	341891	586.729	ug/l	97
60) Dibromochloromethane	10.914	129	114167	68.530	ug/l	99
61) 1,2-Dibromoethane	11.018	107	85947	75.843	ug/l	99
64) Tetrachloroethene	10.652	164	88229	54.095	ug/l	94
65) Chlorobenzene	11.444	112	191312	55.686	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.518	131	83504	68.207	ug/l	99
67) Ethyl Benzene	11.518	91	245521	44.150	ug/l	99
68) m/p-Xylenes	11.627	106	190171	85.258	ug/l	98
69) o-Xylene	11.950	106	93972	44.916	ug/l	98
70) Styrene	11.969	104	123591	35.922	ug/l	99
71) Bromoform	12.133	173	69787	91.897	ug/l #	100
73) Isopropylbenzene	12.255	105	157585	48.860	ug/l	99
74) N-amyl acetate	12.072	43	8440	14.569	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.505	83	93161	176.607	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	63376m	146.778	ug/l	
77) Bromobenzene	12.530	156	64793	75.567	ug/l	86
78) n-propylbenzene	12.591	91	142211	38.103	ug/l	98
79) 2-Chlorotoluene	12.682	91	106207	48.594	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	92656	35.552	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.304	75	1014m	5.759	ug/l	
82) 4-Chlorotoluene	12.780	91	104792	46.556	ug/l	97
83) tert-Butylbenzene	12.999	119	80984	33.655	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	99548	38.273	ug/l	98
85) sec-Butylbenzene	13.176	105	91190	26.418	ug/l	98
86) p-Isopropyltoluene	13.292	119	70459	23.974	ug/l	98
87) 1,3-Dichlorobenzene	13.286	146	66124	39.603	ug/l	96
88) 1,4-Dichlorobenzene	13.365	146	68453	41.511	ug/l	99
89) n-Butylbenzene	13.615	91	47002	18.354	ug/l	98
90) Hexachloroethane	13.877	117	7634	12.077	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	67020	45.784	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	13660	157.821	ug/l	93
93) 1,2,4-Trichlorobenzene	14.919	180	15146	16.597	ug/l	96
94) Hexachlorobutadiene	15.023	225	5609	9.860	ug/l	95
95) Naphthalene	15.145	128	68160	46.903	ug/l	97
96) 1,2,3-Trichlorobenzene	15.328	180	14795	18.717	ug/l	96

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(#)=qualifier out of range (m)=manual integration (+)=signals summed						

