

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
 Data File : VY023498.D
 Acq On : 20 Oct 2025 10:29
 Operator : SY/MD
 Sample : VY1020SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1020SBS01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 10/21/2025
 Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 21 03:55:26 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

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	515174	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	734290	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	652730	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	350213	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	206772	47.998	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	96.000%		
35) Dibromofluoromethane	7.640	113	238995	52.970	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	105.940%		
50) Toluene-d8	10.109	98	872808	51.945	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	103.880%		
62) 4-Bromofluorobenzene	12.408	95	283823	51.163	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	102.320%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	79678	21.487	ug/l	98
3) Chloromethane	2.074	50	98710	19.541	ug/l	99
4) Vinyl Chloride	2.208	62	131697	20.016	ug/l	97
5) Bromomethane	2.592	94	117516	21.283	ug/l	97
6) Chloroethane	2.739	64	93244	20.790	ug/l	99
7) Trichlorofluoromethane	3.062	101	189853	20.782	ug/l	99
8) Diethyl Ether	3.452	74	46834	19.619	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	103962	21.930	ug/l	99
10) Methyl Iodide	4.007	142	108732	20.603	ug/l	100
11) Tert butyl alcohol	4.860	59	27240	84.996	ug/l	98
12) 1,1-Dichloroethene	3.793	96	95131	20.701	ug/l	99
13) Acrolein	3.653	56	24880	54.940	ug/l	97
14) Allyl chloride	4.385	41	105936	18.915	ug/l	96
15) Acrylonitrile	5.061	53	87019	95.253	ug/l	99
16) Acetone	3.873	43	130930	127.663	ug/l	99
17) Carbon Disulfide	4.110	76	265408	20.179	ug/l	100
18) Methyl Acetate	4.391	43	43585	16.201	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	214978	19.464	ug/l	96
20) Methylene Chloride	4.616	84	103866	18.729	ug/l	99
21) trans-1,2-Dichloroethene	5.116	96	105489	20.850	ug/l	97
22) Diisopropyl ether	6.025	45	245767	19.839	ug/l	99
23) Vinyl Acetate	5.964	43	652990	97.381	ug/l	97
24) 1,1-Dichloroethane	5.921	63	168042	20.478	ug/l	98
25) 2-Butanone	6.896	43	136875	109.318	ug/l	97
26) 2,2-Dichloropropane	6.890	77	156830	20.828	ug/l	98
27) cis-1,2-Dichloroethene	6.896	96	120927	20.691	ug/l	97
28) Bromochloromethane	7.250	49	62703	20.468	ug/l	97
29) Tetrahydrofuran	7.262	42	63479	89.405	ug/l	97
30) Chloroform	7.427	83	191925	21.287	ug/l	99
31) Cyclohexane	7.701	56	139700	19.494	ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	174314	21.275	ug/l	99
36) 1,1-Dichloropropene	7.841	75	131113	21.950	ug/l	99
37) Ethyl Acetate	6.988	43	48955	20.687	ug/l	96
38) Carbon Tetrachloride	7.823	117	161193	22.255	ug/l	99
39) Methylcyclohexane	9.110	83	162661	20.915	ug/l	97
40) Benzene	8.085	78	411436	21.750	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
 Data File : VY023498.D
 Acq On : 20 Oct 2025 10:29
 Operator : SY/MD
 Sample : VY1020SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1020SBS01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 10/21/2025
 Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 21 03:55:26 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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.244	41	27603m	21.567	ug/l	
42) 1,2-Dichloroethane	8.158	62	101924	20.892	ug/l	99
43) Isopropyl Acetate	8.201	43	88923	18.845	ug/l	99
44) Trichloroethene	8.866	130	120132	21.697	ug/l	97
45) 1,2-Dichloropropane	9.140	63	90049	21.552	ug/l	99
46) Dibromomethane	9.231	93	57491	21.760	ug/l	99
47) Bromodichloromethane	9.427	83	145888	21.925	ug/l	95
48) Methyl methacrylate	9.225	41	43063	19.426	ug/l	97
49) 1,4-Dioxane	9.231	88	11629	379.630	ug/l	98
51) 4-Methyl-2-Pentanone	10.000	43	238175	97.693	ug/l	100
52) Toluene	10.170	92	269904	21.975	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	120451	20.818	ug/l	99
54) cis-1,3-Dichloropropene	9.859	75	144723	21.194	ug/l	100
55) 1,1,2-Trichloroethane	10.573	97	78396	22.066	ug/l	98
56) Ethyl methacrylate	10.439	69	80281	19.589	ug/l	97
57) 1,3-Dichloropropane	10.719	76	120593	21.420	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	176367	96.064	ug/l	99
59) 2-Hexanone	10.762	43	189776	108.923	ug/l	100
60) Dibromochloromethane	10.914	129	112082	22.501	ug/l	99
61) 1,2-Dibromoethane	11.018	107	73375	21.655	ug/l	96
64) Tetrachloroethene	10.646	164	150911	22.391	ug/l	98
65) Chlorobenzene	11.444	112	302969	21.341	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.518	131	110864	21.914	ug/l	99
67) Ethyl Benzene	11.518	91	487243	21.203	ug/l	100
68) m/p-Xylenes	11.627	106	401271	43.535	ug/l	100
69) o-Xylene	11.957	106	180613	20.891	ug/l	99
70) Styrene	11.969	104	308279	21.684	ug/l	100
71) Bromoform	12.133	173	68250	21.749	ug/l #	100
73) Isopropylbenzene	12.255	105	479145	20.761	ug/l	100
74) N-amyl acetate	12.072	43	73705	17.780	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.505	83	76342	20.224	ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	56309m	18.224	ug/l	
77) Bromobenzene	12.530	156	128278	20.907	ug/l	98
78) n-propylbenzene	12.597	91	568456	21.284	ug/l	99
79) 2-Chlorotoluene	12.676	91	325763	20.829	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	399537	21.423	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	24366	19.338	ug/l	99
82) 4-Chlorotoluene	12.773	91	340719	21.153	ug/l	99
83) tert-Butylbenzene	12.999	119	362720	21.064	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	395505	21.249	ug/l	100
85) sec-Butylbenzene	13.176	105	529632	21.441	ug/l	100
86) p-Isopropyltoluene	13.292	119	445495	21.183	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	252244	21.112	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	252745	21.418	ug/l	100
89) n-Butylbenzene	13.615	91	380966	20.789	ug/l	99
90) Hexachloroethane	13.877	117	97226	21.494	ug/l	99
91) 1,2-Dichlorobenzene	13.657	146	221975	21.190	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	12241	19.763	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	130921	20.048	ug/l	99
94) Hexachlorobutadiene	15.023	225	89491	21.983	ug/l	99
95) Naphthalene	15.145	128	189842	18.256	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	114341	20.214	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023498.D
Acq On : 20 Oct 2025 10:29
Operator : SY/MD
Sample : VY1020SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBSD01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 21 03:55:26 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

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

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

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

TIC: VY023498.D\data.ms

Abundance

Time-->

Chemical compounds identified in the chromatogram (from left to right):

- Dichlorodifluoromethane, T
- Chloromethane, P
- Vinyl Chloride, C
- Bromomethane, T
- Trichlorofluoromethane, T
- Diethyl Ether, T
- Acrolein, T
- 1,1,2-Trichloroethane, T
- Acetone, T
- Methyl Carbon Disulfide, T
- Methyl Mercaptan, T
- Methylene Chloride, T
- Tert butyl alcohol, T
- Acetonitrile, T
- 1,1-Dichloroethane, T
- Isopropyl Acetate, T
- Ethyl Acetate, T
- Methyl Chloroformate, T
- Chloroform, C
- Isopropyl Acetate, T
- 1,1-Dichloroethane, T
- 1,1,1-Trichloroethane, S
- Cyclohexane, I
- 1,1-Dichloroethane, T
- 1,2-Dichloroethane, TM, S
- 1,4-Difluorobenzene, I
- Trichloroethene, TM
- 1,1,2-Trichloroethane, T
- Cyclohexane, T
- Methyl Chloroformate, T
- Bromodichloromethane, T
- 2-Chloroethyl Vinyl ether, T
- cis-1,3-Dichloropropene, T
- 4-Methyl-2-Pentanone, T
- Toluene, CM
- Ethyl methyl 2-chloropropene, T
- 1,1,2-Trichloroethane, T
- 1,3-Dichloropropene, T
- Hexanone, T
- Dibromodichloromethane, T
- 1,2-Dibromoethane, T
- Chlorobenzene, PM
- Ethyl Benzene, T
- Chlorobenzene, 45, I
- m,p-Xylenes, T
- Styrene, T
- Bromoethyl acetate, T
- trans-1,4-Dichloro-2-butene, T
- Isopropyl acetate, T
- Bromobenzene, T
- n-propylbenzene, T
- 1,3,5-Trimethylbenzene, T
- 2-Chlorotoluene, T
- 1,3,5-Trimethylbenzene, T
- Toluene, T
- 1,2,4-Trimethylbenzene, T
- sec-Butylbenzene, T
- 1,4-Dichlorobenzene, T
- 1,2,4-Trimethylbenzene, T
- 1,4-Dichlorobenzene, T
- n-Butylbenzene, T
- 1,2-Dichlorobenzene, T
- Hexachloroethane, T
- 1,2-Dibromo-3-Chloropropane, T
- Naphthalene, T
- 1,2,4-Trichlorobenzene, T
- 1,2,3-Trichlorobenzene, T
- 1,2,4-Trichlorobenzene, T