

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU112125\
 Data File : VU063769.D
 Acq On : 21 Nov 2025 14:57
 Operator : MD/SY
 Sample : Q3688-03MSD
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 M-31MSD

Quant Time: Nov 21 22:31:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM111725WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Nov 21 22:28:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.219	114	339324	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.393	117	334237	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.788	152	181741	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.583	65	124914	42.630	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.260%
7) Chloroethane-d5	1.891	69	99438	44.048	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.100%
11) 1,1-Dichloroethene-d2	2.541	63	229971	45.278	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.560%
21) 2-Butanone-d5	4.596	46	155036	92.809	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.810%
24) Chloroform-d	5.030	84	233372	47.469	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.940%
26) 1,2-Dichloroethane-d4	5.669	65	152759	47.253	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.500%
32) Benzene-d6	5.695	84	429045	43.793	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.580%
36) 1,2-Dichloropropane-d6	6.660	67	129795	45.128	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.260%
41) Toluene-d8	7.872	98	417615	44.895	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.780%
43) trans-1,3-Dichloroprop...	8.155	79	50132	42.179	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.360%
47) 2-Hexanone-d5	8.608	63	97802	93.527	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.530%
56) 1,1,2,2-Tetrachloroeth...	10.730	84	200020	47.556	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.120%
66) 1,2-Dichlorobenzene-d4	12.168	152	157766	45.985	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.960%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.374	85	93673	47.433	ug/L	98
3) Chloromethane	1.509	50	101061	45.229	ug/L	100
5) Vinyl chloride	1.589	62	125800	48.422	ug/L	100
6) Bromomethane	1.837	94	84453	51.296	ug/L	99
8) Chloroethane	1.914	64	86157	49.683	ug/L	100
9) Trichlorofluoromethane	2.116	101	205086	50.050	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.554	101	116420	48.071	ug/L	98
12) 1,1-Dichloroethene	2.554	96	106170	47.933	ug/L	91
13) Acetone	2.602	43	129402	57.238	ug/L	99
14) Carbon disulfide	2.766	76	242999	42.117	ug/L	99
15) Methyl Acetate	2.927	43	131961	48.608	ug/L	99
16) Methylene chloride	3.014	84	124889	48.366	ug/L	98
17) trans-1,2-Dichloroethene	3.322	96	113141	47.910	ug/L	95
18) Methyl tert-butyl Ether	3.335	73	380824	47.649	ug/L	100
19) 1,1-Dichloroethane	3.833	63	217843	47.872	ug/L	99
20) cis-1,2-Dichloroethene	4.634	96	137463	50.569	ug/L	96
22) 2-Butanone	4.673	43	180590	71.902	ug/L	98
23) Bromochloromethane	4.943	128	68883	49.288	ug/L	96
25) Chloroform	5.055	83	244947	49.729	ug/L	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.763	62	199616	49.643	ug/L	100
29) Cyclohexane	5.354	56	194837	46.331	ug/L	95
30) 1,1,1-Trichloroethane	5.284	97	201082	47.114	ug/L	99
31) Carbon tetrachloride	5.493	117	158715	47.293	ug/L	98
33) Benzene	5.743	78	498474	48.898	ug/L	100
34) Trichloroethene	6.515	95	141520	48.155	ug/L	98
35) Methylcyclohexane	6.734	83	200461	46.466	ug/L	96
37) 1,2-Dichloropropane	6.759	63	128858	48.639	ug/L	99
38) Bromodichloromethane	7.078	83	173773	47.900	ug/L	96
39) cis-1,3-Dichloropropene	7.579	75	173909	44.263	ug/L	99
40) 4-Methyl-2-pentanone	7.763	43	376367	98.146	ug/L	99
42) Toluene	7.943	91	543735	48.313	ug/L	100
44) trans-1,3-Dichloropropene	8.184	75	153497	44.756	ug/L	99
45) 1,1,2-Trichloroethane	8.373	97	137577	49.103	ug/L	98
46) Tetrachloroethene	8.528	164	106214	47.260	ug/L	98
48) 2-Hexanone	8.660	43	290095	96.382	ug/L	99
49) Dibromochloromethane	8.782	129	126850	46.881	ug/L	98
50) 1,2-Dibromoethane	8.898	107	140914	47.915	ug/L	98
51) Chlorobenzene	9.422	112	365504	48.125	ug/L	99
52) Ethylbenzene	9.544	91	622514	47.636	ug/L	99
53) m,p-Xylene	9.669	106	240158	48.216	ug/L	97
54) o-Xylene	10.074	106	234522	48.349	ug/L	97
55) Styrene	10.090	104	390606	49.699	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.756	83	222297	48.714	ug/L	100
59) Bromoform	10.264	173	91801	44.479	ug/L	99
60) 1,2,3-Trichloropropane	10.795	75	188477	47.515	ug/L	99
61) Isopropylbenzene	10.460	105	634787	46.299	ug/L	100
62) 1,3,5-Trimethylbenzene	11.061	105	520959	46.192	ug/L	99
63) 1,2,4-Trimethylbenzene	11.444	105	504302	46.845	ug/L	99
64) 1,3-Dichlorobenzene	11.721	146	282971	46.037	ug/L	99
65) 1,4-Dichlorobenzene	11.811	146	291460	46.296	ug/L	99
67) 1,2-Dichlorobenzene	12.187	146	277649	46.592	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.965	75	46141	47.107	ug/L	98
69) 1,3,5-Trichlorobenzene	13.193	180	195440	47.045	ug/L	98
70) 1,2,4-trichlorobenzene	13.811	180	164746	47.558	ug/L	98
71) Naphthalene	14.058	128	514590	55.819	ug/L	99
72) 1,2,3-Trichlorobenzene	14.299	180	160182	48.787	ug/L	99

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

