

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112923\
 Data File : VX039053.D
 Acq On : 29 Nov 2023 11:20
 Operator : JC/MD
 Sample : VX1129WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1129WBSD01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Nov 30 01:37:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	10598	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	83108	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	101938	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	42778	29.505	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 98.333%			
60) 4-Bromofluorobenzene	11.079	95	66064	29.672	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.900%			
63) Toluene-d8	8.647	98	122538	30.404	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.333%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	32213	20.308	ug/l	97
3) Chloromethane	1.295	50	35572	19.585	ug/l	95
4) Vinyl Chloride	1.374	62	34698	18.923	ug/l	98
5) Bromomethane	1.612	94	24174	21.555	ug/l	97
6) Chloroethane	1.691	64	20439	19.141	ug/l	97
7) Trichlorofluoromethane	1.892	101	50014	19.763	ug/l	95
8) Diethyl Ether	2.130	74	20060	20.650	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	30250	21.152	ug/l	98
10) 1,1-Dichloroethene	2.319	96	28868	20.026	ug/l	95
11) Methyl Iodide	2.453	142	33151	20.986	ug/l	96
12) Methyl Acetate	2.697	43	91593	20.372	ug/l	100
13) Acrolein	2.233	56	41696	105.863	ug/l	97
14) Acrylonitrile	3.056	53	113878	103.558	ug/l	99
15) Acetone	2.374	58	37972	94.997	ug/l	99
16) Carbon Disulfide	2.514	76	83284	19.076	ug/l	96
17) Allyl chloride	2.666	41	57345	20.039	ug/l	97
18) Methylene Chloride	2.788	84	35016	20.492	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	32809	20.123	ug/l	97
20) Diisopropyl ether	3.751	45	112766	20.706	ug/l #	92
21) 1,1-Dichloroethane	3.611	63	60531	19.991	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	38326	20.284	ug/l	98
23) tert-Butyl Alcohol	2.941	59	55730	91.546	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	109109	20.546	ug/l	100
25) Chloroform	5.087	83	61938	20.381	ug/l	93
26) Cyclohexane	5.471	56	55491	20.248	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	47059	20.199	ug/l	99
30) 2-Butanone	4.544	43	175502	100.054	ug/l	99
31) 2,2-Dichloropropane	4.477	77	53245	19.989	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	53525	19.877	ug/l	99
33) Carbon Tetrachloride	5.678	117	45138	19.900	ug/l	94
34) Benzene	6.031	78	137527	20.264	ug/l	98
35) Methacrylonitrile	4.916	41	31756	20.438	ug/l	98
36) 1,2-Dichloroethane	6.080	62	49697	19.957	ug/l	99
37) Trichloroethene	7.123	130	34295	19.910	ug/l	98
38) Methylcyclohexane	7.379	83	59547	20.513	ug/l	99
39) 1,2-Dichloropropane	7.428	63	36665	20.485	ug/l	94
40) Dibromomethane	7.574	93	25287	19.996	ug/l	97
41) Bromodichloromethane	7.818	83	49736	20.471	ug/l	99
42) Vinyl Acetate	3.715	43	434384	103.973	ug/l	100

11/30/2023
 Supervised By :Mahesh
 Radoda

11/30/2023

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	59423	19.691	ug/l	100
44) Isopropyl Acetate	6.330	43	96690	20.325	ug/l	100
45) 1,4-Dioxane	7.653	88	17459	359.505	ug/l	96
46) Methyl methacrylate	7.684	41	53432	19.645	ug/l	98
47) n-amyl Acetate	10.842	43	78348	19.458	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	56258	19.970	ug/l	95
49) cis-1,3-Dichloropropene	8.360	75	59114	20.341	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	35360	20.583	ug/l	97
51) Ethyl methacrylate	9.116	69	44061	20.489	ug/l	90
52) 1,3-Dichloropropane	9.305	76	61680	20.939	ug/l	98
53) Dibromochloromethane	9.519	129	36321	19.687	ug/l	96
54) 1,2-Dibromoethane	9.610	107	38759	20.574	ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	131467	96.451	ug/l	99
56) Bromoform	10.799	173	25499	19.150	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	326534	105.632	ug/l	100
59) 2-Hexanone	9.427	43	262547	103.470	ug/l	100
61) Tetrachloroethene	9.269	164	27425	20.693	ug/l	89
62) Toluene	8.714	91	149230	20.620	ug/l	100
64) Chlorobenzene	10.079	112	91496	20.784	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	32775	20.672	ug/l	100
66) Ethyl Benzene	10.189	91	171461	20.806	ug/l	99
67) m/p-Xylenes	10.299	106	126910	41.675	ug/l	98
68) o-Xylene	10.640	106	61485	20.844	ug/l	99
69) Styrene	10.653	104	88114	20.184	ug/l	99
70) Isopropylbenzene	10.957	105	164087	20.791	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.207	83	61013	20.708	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	52834m	21.192	ug/l	
73) Bromobenzene	11.195	156	36515	20.321	ug/l	99
74) n-propylbenzene	11.305	91	200132	20.697	ug/l	100
75) 2-Chlorotoluene	11.360	91	116030	20.453	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	141185	20.765	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	18899	19.131	ug/l	98
78) 4-Chlorotoluene	11.451	91	138593	20.779	ug/l	99
79) tert-butylbenzene	11.713	119	133073	20.583	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	138546	20.360	ug/l	100
81) sec-Butylbenzene	11.890	105	167411	20.483	ug/l	100
82) p-Isopropyltoluene	12.006	119	140447	20.275	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	71410	20.766	ug/l	97
84) 1,4-Dichlorobenzene	12.043	146	72267	20.481	ug/l	98
85) n-Butylbenzene	12.329	91	140317	20.512	ug/l	98
86) Hexachloroethane	12.536	117	25215	19.211	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	67762	20.492	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	14848	19.705	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	44669	20.375	ug/l	99
90) Hexachlorobutadiene	13.725	225	16723	21.363	ug/l	100
91) Naphthalene	13.774	128	160664	19.871	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	42921	20.212	ug/l	99

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

