

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121222\
 Data File : VX033378.D
 Acq On : 12 Dec 2022 16:58
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/13/2022
 Supervised By : Mahesh Dadoda 12/13/2022

Quant Time: Dec 13 07:32:01 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:37:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	12565	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	87100	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	98427	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	34248	31.035	ug/l	-0.01
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.433%			
60) 4-Bromofluorobenzene	11.079	95	55533	30.463	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.533%			
63) Toluene-d8	8.647	98	98644	30.128	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.433%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	19651	21.414	ug/l	93
3) Chloromethane	1.294	50	19018	20.538	ug/l	95
4) Vinyl Chloride	1.373	62	22679	20.412	ug/l	98
5) Bromomethane	1.611	94	14115	17.373	ug/l	97
6) Chloroethane	1.690	64	17898	21.788	ug/l	96
7) Trichlorofluoromethane	1.886	101	37791	16.684	ug/l	97
8) Diethyl Ether	2.129	74	11159	15.775	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	24797	21.561	ug/l	98
10) 1,1-Dichloroethene	2.325	96	22956	21.201	ug/l	95
11) Methyl Iodide	2.453	142	20554	16.713	ug/l	99
12) Methyl Acetate	2.703	43	31493	20.624	ug/l	100
13) Acrolein	2.239	56	18539	76.744	ug/l	97
14) Acrylonitrile	3.062	53	56064	101.010	ug/l	99
15) Acetone	2.379	58	15995	83.838	ug/l	94
16) Carbon Disulfide	2.514	76	57335	19.654	ug/l	99
17) Allyl chloride	2.666	41	34616	19.476	ug/l	95
18) Methylene Chloride	2.788	84	25935	20.637	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	25506	20.220	ug/l	95
20) Diisopropyl ether	3.757	45	76295	20.399	ug/l	90
21) 1,1-Dichloroethane	3.605	63	45044	20.418	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	30528	20.848	ug/l	96
23) tert-Butyl Alcohol	2.971	59	19503	82.344	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	78510	20.038	ug/l	99
25) Chloroform	5.092	83	51333	20.448	ug/l	100
26) Cyclohexane	5.470	56	39976	20.718	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	35351	20.081	ug/l	97
30) 2-Butanone	4.550	43	78023	94.814	ug/l	99
31) 2,2-Dichloropropane	4.477	77	34864	18.845	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	46137	20.303	ug/l	99
33) Carbon Tetrachloride	5.671	117	42035	20.229	ug/l	94
34) Benzene	6.037	78	103307	20.478	ug/l	98
35) Methacrylonitrile	4.916	41	17434	20.673	ug/l	96
36) 1,2-Dichloroethane	6.086	62	41766	21.538	ug/l #	77
37) Trichloroethene	7.122	130	30029	20.963	ug/l	95
38) Methylcyclohexane	7.378	83	42492	20.485	ug/l	99
39) 1,2-Dichloropropane	7.427	63	26041	20.702	ug/l	98
40) Dibromomethane	7.574	93	20173	20.959	ug/l	98
41) Bromodichloromethane	7.817	83	40158	20.361	ug/l	96
42) Vinyl Acetate	3.715	43	291576	102.342	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	31513	21.298	ug/l	98
44) Isopropyl Acetate	6.336	43	50493	20.102	ug/l	99
45) 1,4-Dioxane	7.677	88	9360	318.156	ug/l #	90
46) Methyl methacrylate	7.689	41	26333	21.047	ug/l	99
47) n-amyl Acetate	10.841	43	45192	21.439	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	38845	19.635	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	42352	19.945	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	29150	21.901	ug/l	97
51) Ethyl methacrylate	9.116	69	40066	21.068	ug/l	99
52) 1,3-Dichloropropane	9.305	76	46033	21.180	ug/l	98
53) Dibromochloromethane	9.518	129	32756	20.478	ug/l	99
54) 1,2-Dibromoethane	9.610	107	31156	21.384	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	92768	103.894	ug/l	99
56) Bromoform	10.799	173	22894	19.829	ug/l	99
58) 4-Methyl-2-Pentanone	8.567	43	164908	103.608	ug/l	100
59) 2-Hexanone	9.427	43	123083	101.128	ug/l	99
61) Tetrachloroethene	9.274	164	27108	20.567	ug/l	99
62) Toluene	8.714	91	121289	20.301	ug/l	98
64) Chlorobenzene	10.079	112	77668	20.550	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	29673	19.881	ug/l	99
66) Ethyl Benzene	10.195	91	139840	20.772	ug/l	98
67) m/p-Xylenes	10.299	106	109239	41.513	ug/l	97
68) o-Xylene	10.640	106	52646	20.533	ug/l	100
69) Styrene	10.652	104	87914	20.640	ug/l	99
70) Isopropylbenzene	10.963	105	142836	20.994	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	42092	20.919	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	36502m	20.371	ug/l	
73) Bromobenzene	11.195	156	35095	20.848	ug/l	99
74) n-propylbenzene	11.305	91	161792	20.752	ug/l	99
75) 2-Chlorotoluene	11.366	91	97586	20.823	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	119868	20.956	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	9360	15.710	ug/l	95
78) 4-Chlorotoluene	11.451	91	112547	20.957	ug/l	99
79) tert-butylbenzene	11.713	119	119050	20.996	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	119468	21.249	ug/l	99
81) sec-Butylbenzene	11.890	105	144173	21.156	ug/l	99
82) p-Isopropyltoluene	12.012	119	123130	21.187	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	65390	21.105	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	64018	20.528	ug/l	98
85) n-Butylbenzene	12.335	91	100451	20.707	ug/l	99
86) Hexachloroethane	12.536	117	18098	17.545	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	64488	21.123	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.938	75	8094	18.463	ug/l	94
89) 1,2,4-Trichlorobenzene	13.591	180	39301	20.839	ug/l	97
90) Hexachlorobutadiene	13.725	225	16881	21.095	ug/l	98
91) Naphthalene	13.774	128	126019	20.646	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	39137	20.722	ug/l	97

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

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