

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010923\
 Data File : VX033674.D
 Acq On : 09 Jan 2023 19:30
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/10/2023
 Supervised By : Mahesh Dadoda 01/11/2023

Quant Time: Jan 10 00:49:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 06:16:21 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	13332	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	91235	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	101366	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	34884	32.315	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 107.700%		
60) 4-Bromofluorobenzene	11.079	95	56672	31.020	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 103.400%		
63) Toluene-d8	8.647	98	99205	30.580	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 101.933%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	28297	20.295	ug/l	99
3) Chloromethane	1.295	50	34348	22.982	ug/l	97
4) Vinyl Chloride	1.374	62	31946	23.664	ug/l	94
5) Bromomethane	1.618	94	12520	16.743	ug/l	99
6) Chloroethane	1.691	64	15790	19.971	ug/l	94
7) Trichlorofluoromethane	1.892	101	36069	17.313	ug/l	93
8) Diethyl Ether	2.130	74	12083	17.813	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	19093	17.674	ug/l	98
10) 1,1-Dichloroethene	2.325	96	18167	17.837	ug/l	99
11) Methyl Iodide	2.453	142	14908	8.515	ug/l	96
12) Methyl Acetate	2.709	43	31769	14.899	ug/l	97
13) Acrolein	2.239	56	22465	97.716	ug/l	100
14) Acrylonitrile	3.069	53	76444	108.717	ug/l	99
15) Acetone	2.398	58	13028	81.871	ug/l	100
16) Carbon Disulfide	2.514	76	50438	17.019	ug/l	98
17) Allyl chloride	2.666	41	34166	15.769	ug/l	98
18) Methylene Chloride	2.788	84	21853	15.321	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	28637	20.929	ug/l	91
20) Diisopropyl ether	3.757	45	98692	21.104	ug/l	90
21) 1,1-Dichloroethane	3.611	63	52973	20.656	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	32629	20.052	ug/l	97
23) tert-Butyl Alcohol	3.008	59	25137m	90.507	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	88514	20.352	ug/l	99
25) Chloroform	5.093	83	55298	21.244	ug/l	92
26) Cyclohexane	5.477	56	49482	20.789	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	40708	20.642	ug/l	99
30) 2-Butanone	4.568	43	104312	101.286	ug/l #	98
31) 2,2-Dichloropropane	4.477	77	37108	21.855	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	47279	20.535	ug/l	98
33) Carbon Tetrachloride	5.678	117	44862	21.587	ug/l	99
34) Benzene	6.038	78	117808	20.563	ug/l	98
35) Methacrylonitrile	4.922	41	24263	20.676	ug/l	93
36) 1,2-Dichloroethane	6.086	62	44748	21.486	ug/l	100
37) Trichloroethene	7.123	130	33104	20.035	ug/l	98
38) Methylcyclohexane	7.385	83	50004	20.391	ug/l	100
39) 1,2-Dichloropropane	7.428	63	29844	20.383	ug/l	99
40) Dibromomethane	7.580	93	21015	20.423	ug/l	100
41) Bromodichloromethane	7.818	83	42810	21.450	ug/l	99
42) Vinyl Acetate	3.721	43	372323	101.165	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	40989	19.424	ug/l	96
44) Isopropyl Acetate	6.336	43	63725	19.248	ug/l	99
45) 1,4-Dioxane	7.714	88	13693m	379.103	ug/l	
46) Methyl methacrylate	7.696	41	33577	20.031	ug/l	99
47) n-amyl Acetate	10.842	43	55894	19.829	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	41373	20.287	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	46207	20.400	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	30536	20.444	ug/l	95
51) Ethyl methacrylate	9.116	69	43832	19.679	ug/l	96
52) 1,3-Dichloropropane	9.305	76	52475	20.975	ug/l	99
53) Dibromochloromethane	9.519	129	36250	22.266	ug/l	95
54) 1,2-Dibromoethane	9.610	107	33155	20.770	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	104299	96.863	ug/l	99
56) Bromoform	10.799	173	27653	22.123	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	215725	107.135	ug/l	99
59) 2-Hexanone	9.427	43	157080	105.999	ug/l	98
61) Tetrachloroethene	9.275	164	29980	20.499	ug/l	98
62) Toluene	8.720	91	131846	20.663	ug/l	98
64) Chlorobenzene	10.080	112	84270	20.505	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	32044	20.717	ug/l	97
66) Ethyl Benzene	10.195	91	147903	20.785	ug/l	99
67) m/p-Xylenes	10.299	106	116766	41.576	ug/l	99
68) o-Xylene	10.640	106	57826	20.948	ug/l	99
69) Styrene	10.653	104	94161	20.610	ug/l	98
70) Isopropylbenzene	10.964	105	150094	20.995	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	47097	21.879	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	42797m	21.947	ug/l	
73) Bromobenzene	11.195	156	38897	20.559	ug/l	98
74) n-propylbenzene	11.305	91	172733	21.281	ug/l	98
75) 2-Chlorotoluene	11.366	91	104043	21.431	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	125668	21.172	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	12000	20.569	ug/l	92
78) 4-Chlorotoluene	11.451	91	116757	21.446	ug/l	99
79) tert-butylbenzene	11.713	119	128816	21.161	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	126164	21.516	ug/l	100
81) sec-Butylbenzene	11.890	105	157545	21.389	ug/l	100
82) p-Isopropyltoluene	12.006	119	136894	21.549	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	71486	20.697	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	71967	20.899	ug/l	99
85) n-Butylbenzene	12.329	91	111030	21.497	ug/l	99
86) Hexachloroethane	12.536	117	23355	22.598	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	72739	21.863	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9653	21.600	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	47235	20.642	ug/l	99
90) Hexachlorobutadiene	13.725	225	22687	20.677	ug/l	98
91) Naphthalene	13.774	128	142765	21.247	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	48117	20.958	ug/l	99

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

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