

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061523\
 Data File : VX036176.D
 Acq On : 15 Jun 2023 18:12
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/16/2023
 Supervised By : Mahesh Dadoda 06/16/2023

Quant Time: Jun 16 07:58:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	38463	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	225590	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	207764	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	114962	35.972	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 119.900%#			
60) 4-Bromofluorobenzene	11.079	95	107353	30.793	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.633%			
63) Toluene-d8	8.647	98	269257	29.315	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.733%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	33405	16.984	ug/l	98
3) Chloromethane	1.295	50	37460	15.524	ug/l	96
4) Vinyl Chloride	1.374	62	34756	15.327	ug/l	95
5) Bromomethane	1.618	94	22439	14.710	ug/l	100
6) Chloroethane	1.691	64	21040	14.718	ug/l	98
7) Trichlorofluoromethane	1.886	101	53441	15.546	ug/l	98
8) Diethyl Ether	2.130	74	24048	16.826	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.331	101	32458	17.550	ug/l	96
10) 1,1-Dichloroethene	2.319	96	30928	16.041	ug/l	94
11) Methyl Iodide	2.453	142	32969	14.155	ug/l	96
12) Methyl Acetate	2.709	43	106679	19.581	ug/l	95
13) Acrolein	2.240	56	40639	94.363	ug/l	100
14) Acrylonitrile	3.075	53	124562	91.205	ug/l	99
15) Acetone	2.404	58	31907	78.106	ug/l	92
16) Carbon Disulfide	2.514	76	59795	14.290	ug/l	96
17) Allyl chloride	2.666	41	67851	17.443	ug/l	92
18) Methylene Chloride	2.788	84	40205	16.012	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	35319	16.250	ug/l	93
20) Diisopropyl ether	3.758	45	150833	17.962	ug/l	94
21) 1,1-Dichloroethane	3.611	63	77480	17.603	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	44586	16.578	ug/l	94
23) tert-Butyl Alcohol	3.032	59	49040m	98.368	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	147010	18.918	ug/l	94
25) Chloroform	5.093	83	84941	18.806	ug/l	98
26) Cyclohexane	5.471	56	50598	15.200	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	52373	16.672	ug/l	96
30) 2-Butanone	4.574	43	176355	85.758	ug/l	99
31) 2,2-Dichloropropane	4.477	77	58989	17.478	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	66700	18.182	ug/l	98
33) Carbon Tetrachloride	5.678	117	51581	17.806	ug/l	97
34) Benzene	6.038	78	161935	16.340	ug/l	99
35) Methacrylonitrile	4.922	41	40315	18.372	ug/l	96
36) 1,2-Dichloroethane	6.086	62	76289	19.780	ug/l	97
37) Trichloroethene	7.123	130	38430	15.427	ug/l	87
38) Methylcyclohexane	7.379	83	49155	14.268	ug/l	94
39) 1,2-Dichloropropane	7.428	63	44195	16.568	ug/l	95
40) Dibromomethane	7.580	93	31810	17.632	ug/l	94
41) Bromodichloromethane	7.824	83	61138	18.745	ug/l #	99
42) Vinyl Acetate	3.721	43	529539	87.666	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	69953	17.837	ug/l	99
44) Isopropyl Acetate	6.342	43	114768	17.953	ug/l	97
45) 1,4-Dioxane	7.739	88	18842	310.317	ug/l #	66
46) Methyl methacrylate	7.696	41	56874	18.413	ug/l	97
47) n-amyl Acetate	10.842	43	94425	17.585	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	62085	17.206	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	68264	17.143	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	44310	17.167	ug/l	98
51) Ethyl methacrylate	9.116	69	70466	17.710	ug/l	96
52) 1,3-Dichloropropane	9.305	76	80743	17.951	ug/l	98
53) Dibromochloromethane	9.519	129	42410	17.917	ug/l	98
54) 1,2-Dibromoethane	9.610	107	47215	17.607	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	195827	92.744	ug/l	99
56) Bromoform	10.799	173	27070	17.641	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	370418	91.789	ug/l	99
59) 2-Hexanone	9.433	43	275021	90.571	ug/l	98
61) Tetrachloroethene	9.275	164	30565	15.276	ug/l	95
62) Toluene	8.720	91	173464	16.213	ug/l	98
64) Chlorobenzene	10.080	112	110469	16.303	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	40043	16.903	ug/l	98
66) Ethyl Benzene	10.195	91	199843	16.701	ug/l	99
67) m/p-Xylenes	10.299	106	150572	33.245	ug/l	98
68) o-Xylene	10.640	106	75358	16.634	ug/l	96
69) Styrene	10.653	104	124600	16.664	ug/l	96
70) Isopropylbenzene	10.964	105	195329	16.891	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	72601	17.725	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	69578m	19.505	ug/l	
73) Bromobenzene	11.195	156	45608	16.234	ug/l	85
74) n-propylbenzene	11.305	91	227265	16.488	ug/l	99
75) 2-Chlorotoluene	11.366	91	149475	17.654	ug/l	95
76) 1,3,5-Trimethylbenzene	11.451	105	169155	17.223	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	16681	15.501	ug/l	92
78) 4-Chlorotoluene	11.451	91	173324	17.969	ug/l	96
79) tert-butylbenzene	11.713	119	157429	16.604	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	172146	17.441	ug/l	97
81) sec-Butylbenzene	11.890	105	190851	15.943	ug/l	99
82) p-Isopropyltoluene	12.006	119	162128	16.280	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	84161	15.828	ug/l	95
84) 1,4-Dichlorobenzene	12.043	146	86851	16.274	ug/l	98
85) n-Butylbenzene	12.329	91	138898	15.677	ug/l	98
86) Hexachloroethane	12.536	117	24214	15.440	ug/l	91
87) 1,2-Dichlorobenzene	12.335	146	86599	16.623	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.945	75	15395	19.666	ug/l #	82
89) 1,2,4-Trichlorobenzene	13.585	180	47805	15.311	ug/l	98
90) Hexachlorobutadiene	13.725	225	16697	14.507	ug/l	98
91) Naphthalene	13.774	128	175796	16.271	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	47937	15.378	ug/l	98

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

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