

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050522\
 Data File : VX028528.D
 Acq On : 05 May 2022 10:57
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2022
 Supervised By : Mahesh Dadoda 05/06/2022

Quant Time: May 06 02:25:18 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 29 06:09:36 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	60333	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	321046	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	296786	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	118319	30.837	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.800%			
60) 4-Bromofluorobenzene	11.079	95	138647	30.040	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.133%			
63) Toluene-d8	8.647	98	385545	30.665	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.233%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	41414	19.400	ug/l	100
3) Chloromethane	1.294	50	34924	20.753	ug/l	95
4) Vinyl Chloride	1.374	62	43438	20.305	ug/l	99
5) Bromomethane	1.605	94	33642	19.088	ug/l	97
6) Chloroethane	1.685	64	33800	20.516	ug/l	96
7) Trichlorofluoromethane	1.886	101	94428	20.187	ug/l	98
8) Diethyl Ether	2.130	74	38400	20.815	ug/l	85
9) 1,1,2-Trichlorotrifluo...	2.331	101	54541	19.827	ug/l	95
10) 1,1-Dichloroethene	2.319	96	42681	18.765	ug/l	98
11) Methyl Iodide	2.453	142	53171	17.405	ug/l	97
12) Methyl Acetate	2.703	43	77311	21.291	ug/l	99
13) Acrolein	2.233	56	63440	86.101	ug/l	99
14) Acrylonitrile	3.062	53	175325	106.057	ug/l	99
15) Acetone	2.373	58	48134	102.808	ug/l	96
16) Carbon Disulfide	2.514	76	60957	22.676	ug/l	97
17) Allyl chloride	2.666	41	68343	19.996	ug/l	87
18) Methylene Chloride	2.788	84	60724	20.779	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	50024	19.908	ug/l	89
20) Diisopropyl ether	3.757	45	173508	20.425	ug/l	95
21) 1,1-Dichloroethane	3.611	63	100666	20.049	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	68732	19.430	ug/l	97
23) tert-Butyl Alcohol	2.953	59	79351	88.877	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	198693	19.867	ug/l	96
25) Chloroform	5.093	83	119322	20.224	ug/l	99
26) Cyclohexane	5.471	56	64334	20.267	ug/l #	95
29) 1,1-Dichloropropene	5.690	75	71584	20.963	ug/l	98
30) 2-Butanone	4.550	43	235605	109.473	ug/l	93
31) 2,2-Dichloropropane	4.477	77	82586	19.692	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	98662	20.549	ug/l	99
33) Carbon Tetrachloride	5.678	117	84934	20.788	ug/l	98
34) Benzene	6.037	78	227010	20.872	ug/l	99
35) Methacrylonitrile	4.916	41	46240	21.333	ug/l	87
36) 1,2-Dichloroethane	6.086	62	87641	21.622	ug/l	97
37) Trichloroethene	7.129	130	67886	20.377	ug/l	94
38) Methylcyclohexane	7.379	83	73939	21.143	ug/l	95
39) 1,2-Dichloropropane	7.434	63	60965	21.324	ug/l	97
40) Dibromomethane	7.580	93	47181	21.516	ug/l	97
41) Bromodichloromethane	7.824	83	91300	21.940	ug/l	96
42) Vinyl Acetate	3.721	43	724537	108.628	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	82313	20.438	ug/l	97
44) Isopropyl Acetate	6.342	43	133716	20.592	ug/l	98
45) 1,4-Dioxane	7.659	88	36509	431.757	ug/l	91
46) Methyl methacrylate	7.690	41	61923	20.866	ug/l	87
47) n-amyl Acetate	10.841	43	114524	20.371	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	87415	20.000	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	96498	20.548	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	73556	21.331	ug/l	97
51) Ethyl methacrylate	9.116	69	101133	20.495	ug/l	96
52) 1,3-Dichloropropane	9.311	76	115884	21.480	ug/l	100
53) Dibromochloromethane	9.525	129	75855	21.501	ug/l	99
54) 1,2-Dibromoethane	9.610	107	74598	20.795	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	267517	103.261	ug/l	100
56) Bromoform	10.799	173	59016	21.701	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	473250	109.614	ug/l	94
59) 2-Hexanone	9.433	43	362993	108.634	ug/l	94
61) Tetrachloroethene	9.275	164	67959	20.758	ug/l	94
62) Toluene	8.720	91	267799	20.805	ug/l	98
64) Chlorobenzene	10.079	112	184916	20.363	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	73398	20.694	ug/l	97
66) Ethyl Benzene	10.195	91	309565	20.399	ug/l	98
67) m/p-Xylenes	10.305	106	248051	40.775	ug/l	99
68) o-Xylene	10.640	106	125837	20.354	ug/l	98
69) Styrene	10.659	104	211256	20.459	ug/l	97
70) Isopropylbenzene	10.963	105	330073	20.521	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	117414	21.499	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	104057m	21.413	ug/l	
73) Bromobenzene	11.201	156	85959	19.820	ug/l	96
74) n-propylbenzene	11.305	91	381811	21.289	ug/l	100
75) 2-Chlorotoluene	11.366	91	228472	20.564	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	280109	20.768	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	28785	19.563	ug/l	88
78) 4-Chlorotoluene	11.457	91	263215	20.946	ug/l	96
79) tert-butylbenzene	11.713	119	280623	20.509	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	278921	20.602	ug/l	98
81) sec-Butylbenzene	11.890	105	340113	20.969	ug/l	99
82) p-Isopropyltoluene	12.012	119	295580	20.995	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	165285	20.319	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	167829	20.292	ug/l	99
85) n-Butylbenzene	12.335	91	237268	20.882	ug/l	100
86) Hexachloroethane	12.542	117	47737	21.548	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	165635	20.218	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	25437	21.806	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	104351	20.393	ug/l	98
90) Hexachlorobutadiene	13.725	225	43891	20.232	ug/l	98
91) Naphthalene	13.774	128	356331	19.927	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	102799	20.041	ug/l	99

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

