

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051122\
 Data File : VX028621.D
 Acq On : 11 May 2022 14:59
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/12/2022
 Supervised By : Mahesh Dadoda 05/12/2022

Quant Time: May 12 04:56:06 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	54681	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	304950	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	281490	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	110207	31.692	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.633%			
60) 4-Bromofluorobenzene	11.079	95	134011	30.613	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.033%			
63) Toluene-d8	8.647	98	368379	30.892	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.967%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	35193	18.190	ug/l	98
3) Chloromethane	1.294	50	28899	18.948	ug/l	100
4) Vinyl Chloride	1.374	62	38116	19.659	ug/l	99
5) Bromomethane	1.605	94	30182	18.895	ug/l	94
6) Chloroethane	1.685	64	29708	19.896	ug/l	99
7) Trichlorofluoromethane	1.886	101	84699	19.979	ug/l	99
8) Diethyl Ether	2.130	74	33041	19.761	ug/l	85
9) 1,1,2-Trichlorotrifluo...	2.331	101	47771	19.161	ug/l	96
10) 1,1-Dichloroethene	2.319	96	38208	18.534	ug/l	99
11) Methyl Iodide	2.453	142	47210	17.051	ug/l	99
12) Methyl Acetate	2.703	43	64402	19.569	ug/l	98
13) Acrolein	2.233	56	52338	78.375	ug/l	100
14) Acrylonitrile	3.062	53	140763	93.951	ug/l	99
15) Acetone	2.373	58	40465	95.362	ug/l	93
16) Carbon Disulfide	2.514	76	47469	19.483	ug/l	96
17) Allyl chloride	2.666	41	55105	17.789	ug/l	84
18) Methylene Chloride	2.788	84	49928	18.850	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	43645	19.165	ug/l	89
20) Diisopropyl ether	3.757	45	148553	19.295	ug/l	96
21) 1,1-Dichloroethane	3.611	63	86597	19.030	ug/l	96
22) cis-1,2-Dichloroethene	4.489	96	59912	18.687	ug/l	96
23) tert-Butyl Alcohol	2.953	59	58344	72.103	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	164914	18.194	ug/l	98
25) Chloroform	5.092	83	104187	19.484	ug/l	95
26) Cyclohexane	5.464	56	54110	18.808	ug/l #	90
29) 1,1-Dichloropropene	5.690	75	60801	18.745	ug/l	97
30) 2-Butanone	4.550	43	191111	93.486	ug/l	95
31) 2,2-Dichloropropane	4.477	77	69803	17.523	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	86583	18.985	ug/l	98
33) Carbon Tetrachloride	5.678	117	72566	18.698	ug/l	100
34) Benzene	6.037	78	199250	19.287	ug/l	97
35) Methacrylonitrile	4.916	41	38462	18.681	ug/l	89
36) 1,2-Dichloroethane	6.086	62	75606	19.638	ug/l	98
37) Trichloroethene	7.123	130	59195	18.706	ug/l	96
38) Methylcyclohexane	7.379	83	63522	19.123	ug/l	94
39) 1,2-Dichloropropane	7.427	63	51987	19.144	ug/l	99
40) Dibromomethane	7.580	93	40720	19.549	ug/l	97
41) Bromodichloromethane	7.824	83	77587	19.629	ug/l	98
42) Vinyl Acetate	3.721	43	603142	95.200	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	69692	18.218	ug/l	99
44) Isopropyl Acetate	6.336	43	110498	17.915	ug/l	98
45) 1,4-Dioxane	7.659	88	28396	353.538	ug/l	92
46) Methyl methacrylate	7.696	41	53178	18.865	ug/l	82
47) n-amyl Acetate	10.841	43	96808	18.128	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	72920	17.565	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	80823	18.118	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	65014	19.849	ug/l	97
51) Ethyl methacrylate	9.116	69	86427	18.440	ug/l	93
52) 1,3-Dichloropropane	9.311	76	99340	19.386	ug/l	100
53) Dibromochloromethane	9.518	129	64495	19.246	ug/l	100
54) 1,2-Dibromoethane	9.610	107	65238	19.146	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	239734	97.421	ug/l	99
56) Bromoform	10.799	173	47479	18.380	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	393111	96.000	ug/l	94
59) 2-Hexanone	9.427	43	303447	95.748	ug/l	94
61) Tetrachloroethene	9.275	164	58626	18.880	ug/l	96
62) Toluene	8.720	91	235597	19.298	ug/l	98
64) Chlorobenzene	10.079	112	162438	18.860	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	61874	18.393	ug/l	98
66) Ethyl Benzene	10.195	91	277352	19.269	ug/l	99
67) m/p-Xylenes	10.305	106	219800	38.095	ug/l	99
68) o-Xylene	10.640	106	111968	19.095	ug/l	97
69) Styrene	10.659	104	189338	19.333	ug/l	97
70) Isopropylbenzene	10.963	105	298873	19.591	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	102078	19.707	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	89310m	19.377	ug/l	
73) Bromobenzene	11.201	156	77021	18.724	ug/l	95
74) n-propylbenzene	11.305	91	335592	19.729	ug/l	99
75) 2-Chlorotoluene	11.366	91	206370	19.584	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	250698	19.598	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	23016	16.492	ug/l	92
78) 4-Chlorotoluene	11.457	91	235194	19.733	ug/l	97
79) tert-butylbenzene	11.713	119	245357	18.906	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	248305	19.337	ug/l	97
81) sec-Butylbenzene	11.890	105	303530	19.731	ug/l	98
82) p-Isopropyltoluene	12.012	119	258475	19.357	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	147583	19.129	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	148016	18.869	ug/l	99
85) n-Butylbenzene	12.335	91	212951	19.760	ug/l	98
86) Hexachloroethane	12.542	117	39931	19.004	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	147289	18.956	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	20283	18.332	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	89029	18.344	ug/l	98
90) Hexachlorobutadiene	13.725	225	38892	18.901	ug/l	99
91) Naphthalene	13.774	128	295529	17.425	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	90704	18.644	ug/l	98

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

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