

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042822\
 Data File : VX028406.D
 Acq On : 28 Apr 2022 18:20
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Quant Time: Apr 29 05:41:17 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 29 05:39:20 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2022
 Supervised By : Mahesh Dadoda 04/29/2022

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

Internal Standards						
1) Bromochloromethane	4.903	128	74647	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	409766	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	383939	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	141162	27.699	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.333%		
60) 4-Bromofluorobenzene	11.079	95	179453	28.988	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.633%		
63) Toluene-d8	8.653	98	482496	29.231	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.433%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	131890	30.505	ug/l	97
3) Chloromethane	1.294	50	105417	30.391	ug/l	98
4) Vinyl Chloride	1.374	62	131782	38.110	ug/l	99
5) Bromomethane	1.599	94	104505	53.102	ug/l	97
6) Chloroethane	1.678	64	101707	47.537	ug/l	100
7) Trichlorofluoromethane	1.886	101	289685	46.985	ug/l	96
8) Diethyl Ether	2.136	74	114354	55.570	ug/l	84
9) 1,1,2-Trichlorotrifluo...	2.331	101	168085	40.547	ug/l	98
10) 1,1-Dichloroethene	2.319	96	140275	35.478	ug/l	95
11) Methyl Iodide	2.453	142	197488	41.203	ug/l	99
12) Methyl Acetate	2.703	43	229564	42.952	ug/l	96
13) Acrolein	2.233	56	236371	266.130	ug/l	100
14) Acrylonitrile	3.062	53	524284	217.017	ug/l	99
15) Acetone	2.380	58	146818	214.539	ug/l	88
16) Carbon Disulfide	2.514	76	165140	17.015	ug/l	98
17) Allyl chloride	2.666	41	217569	33.537	ug/l	89
18) Methylene Chloride	2.788	84	178348	39.196	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	155884	36.226	ug/l	92
20) Diisopropyl ether	3.763	45	527633	40.703	ug/l	86
21) 1,1-Dichloroethane	3.611	63	309428	40.771	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	219893	43.169	ug/l	95
23) tert-Butyl Alcohol	2.965	59	257544	252.299	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	619494	45.041	ug/l	95
25) Chloroform	5.099	83	367187	44.662	ug/l	96
26) Cyclohexane	5.470	56	195782	29.965	ug/l #	93
29) 1,1-Dichloropropene	5.696	75	221867	37.706	ug/l	97
30) 2-Butanone	4.556	43	721115	213.696	ug/l	94
31) 2,2-Dichloropropane	4.477	77	272778	44.678	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	316553	43.431	ug/l	98
33) Carbon Tetrachloride	5.684	117	270492	41.054	ug/l	99
34) Benzene	6.043	78	705486	40.678	ug/l	98
35) Methacrylonitrile	4.922	41	141073	40.186	ug/l	88
36) 1,2-Dichloroethane	6.092	62	264898	41.742	ug/l	96
37) Trichloroethene	7.129	130	216798	41.110	ug/l	96
38) Methylcyclohexane	7.385	83	225238	31.665	ug/l	94
39) 1,2-Dichloropropane	7.433	63	185595	42.982	ug/l	99
40) Dibromomethane	7.580	93	142973	43.905	ug/l	100
41) Bromodichloromethane	7.824	83	277612	44.756	ug/l	98
42) Vinyl Acetate	3.721	43	2231101	199.836	ug/l	95

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43) Ethyl Acetate	4.714	43	259482	40.406	ug/l	98
44) Isopropyl Acetate	6.342	43	433700	43.712	ug/l	98
45) 1,4-Dioxane	7.659	88	116121	1007.512	ug/l	89
46) Methyl methacrylate	7.696	41	197963	40.825	ug/l	83
47) n-amyl Acetate	10.841	43	387024	46.945	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	300194	46.578	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	314948	44.695	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	229161	48.794	ug/l	98
51) Ethyl methacrylate	9.116	69	333709	46.383	ug/l	94
52) 1,3-Dichloropropane	9.311	76	354454	45.664	ug/l	99
53) Dibromochloromethane	9.525	129	240515	47.732	ug/l	99
54) 1,2-Dibromoethane	9.610	107	238790	47.051	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	916284	260.197	ug/l	98
56) Bromoform	10.799	173	186041	50.058	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	1438608	215.826	ug/l	94
59) 2-Hexanone	9.433	43	1118471	218.330	ug/l	94
61) Tetrachloroethene	9.275	164	208229	39.423	ug/l	95
62) Toluene	8.720	91	835649	41.771	ug/l	99
64) Chlorobenzene	10.079	112	591473	45.354	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	235297	47.284	ug/l	97
66) Ethyl Benzene	10.195	91	995605	43.809	ug/l	98
67) m/p-Xylenes	10.305	106	797896	89.406	ug/l	95
68) o-Xylene	10.646	106	405272	46.167	ug/l	96
69) Styrene	10.659	104	683687	46.845	ug/l	97
70) Isopropylbenzene	10.963	105	1049453	45.506	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	360785	51.876	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	322553m	48.616	ug/l	
73) Bromobenzene	11.201	156	283916	49.048	ug/l	93
74) n-propylbenzene	11.305	91	1184118	45.180	ug/l	98
75) 2-Chlorotoluene	11.366	91	725938	45.598	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	877688	45.387	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	102587	52.328	ug/l	82
78) 4-Chlorotoluene	11.457	91	820288	45.354	ug/l	95
79) tert-butylbenzene	11.713	119	908756	48.158	ug/l	94
80) 1,2,4-Trimethylbenzene	11.756	105	896230	46.404	ug/l	97
81) sec-Butylbenzene	11.890	105	1064102	44.545	ug/l	97
82) p-Isopropyltoluene	12.012	119	927526	45.588	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	532953	48.838	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	538861	49.257	ug/l	99
85) n-Butylbenzene	12.335	91	741629	44.494	ug/l	100
86) Hexachloroethane	12.542	117	150029	47.306	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	532180	50.311	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	78003	48.282	ug/l	89
89) 1,2,4-Trichlorobenzene	13.591	180	327854	47.460	ug/l	98
90) Hexachlorobutadiene	13.725	225	138634	47.843	ug/l	99
91) Naphthalene	13.780	128	1173740	50.489	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	331608	47.906	ug/l	99

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

