

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030322\
 Data File : VX027273.D
 Acq On : 03 Mar 2022 16:19
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/04/2022
 Supervised By : Mahesh Dadoda 03/04/2022

Quant Time: Mar 04 00:47:08 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 04 00:46:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	12835	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.757	114	68513	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	61891	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	26063	28.320	ug/l	-0.01
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.400%		
60) 4-Bromofluorobenzene	11.079	95	29669	29.630	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.767%		
63) Toluene-d8	8.647	98	81670	29.223	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.400%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	3924	5.221	ug/l	99
3) Chloromethane	1.295	50	3517	5.105	ug/l	98
4) Vinyl Chloride	1.380	62	3133	4.573	ug/l	94
5) Bromomethane	1.605	94	2026	6.159	ug/l	100
6) Chloroethane	1.685	64	1926	4.769	ug/l	94
7) Trichlorofluoromethane	1.886	101	5160	4.760	ug/l	88
8) Diethyl Ether	2.136	74	1796	4.728	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.331	101	3800	5.024	ug/l	97
10) 1,1-Dichloroethene	2.325	96	3683	4.994	ug/l	87
11) Methyl Iodide	2.459	142	2795	2.967	ug/l	97
12) Methyl Acetate	2.709	43	4628	4.357	ug/l	94
13) Acrolein	2.240	56	3670	20.673	ug/l	94
14) Acrylonitrile	3.063	53	10639	22.791	ug/l	98
15) Acetone	2.380	58	3245	25.443	ug/l	98
16) Carbon Disulfide	2.514	76	9656	4.962	ug/l	98
17) Allyl chloride	2.666	41	5828	4.437	ug/l	99
18) Methylene Chloride	2.794	84	4538	5.442	ug/l	90
19) trans-1,2-Dichloroethene	3.093	96	4107	5.096	ug/l	93
20) Diisopropyl ether	3.764	45	11855	4.617	ug/l	89
21) 1,1-Dichloroethane	3.611	63	6727	4.649	ug/l	96
22) cis-1,2-Dichloroethene	4.489	96	4597	4.961	ug/l	98
23) tert-Butyl Alcohol	2.965	59	3896	21.326	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	11646	4.528	ug/l	100
25) Chloroform	5.099	83	7475	5.005	ug/l	92
26) Cyclohexane	5.471	56	6040	4.542	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	5184	4.843	ug/l	99
30) 2-Butanone	4.562	43	15128	23.838	ug/l	97
31) 2,2-Dichloropropane	4.477	77	4887	5.030	ug/l #	71
32) 1,1,1-Trichloroethane	5.385	97	6118	4.790	ug/l	97
33) Carbon Tetrachloride	5.672	117	5636	4.996	ug/l	95
34) Benzene	6.038	78	15412	4.895	ug/l	95
35) Methacrylonitrile	4.916	41	2994	4.528	ug/l	96
36) 1,2-Dichloroethane	6.086	62	5554	4.892	ug/l #	92
37) Trichloroethene	7.123	130	4730	5.111	ug/l	95
38) Methylcyclohexane	7.379	83	6457	4.896	ug/l	98
39) 1,2-Dichloropropane	7.434	63	3694	4.691	ug/l	96
40) Dibromomethane	7.580	93	2853	5.020	ug/l	96
41) Bromodichloromethane	7.824	83	5164	4.784	ug/l	98
42) Vinyl Acetate	3.727	43	46808	21.734	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	5745	4.776	ug/l	# 79
44) Isopropyl Acetate	6.342	43	8054	4.300	ug/l	98
45) 1,4-Dioxane	7.653	88	1842	94.893	ug/l	97
46) Methyl methacrylate	7.696	41	3916	4.255	ug/l	93
47) n-amyl Acetate	10.848	43	6034	4.043	ug/l	96
48) t-1,3-Dichloropropene	8.976	75	4807	4.447	ug/l	93
49) cis-1,3-Dichloropropene	8.366	75	5382	4.414	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	4090	5.247	ug/l	98
51) Ethyl methacrylate	9.116	69	5662	4.574	ug/l	100
52) 1,3-Dichloropropane	9.305	76	6828	5.114	ug/l	97
53) Dibromochloromethane	9.519	129	3981	4.832	ug/l	99
54) 1,2-Dibromoethane	9.610	107	4134	4.923	ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	14126	22.722	ug/l	99
56) Bromoform	10.799	173	2852	4.955	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	28144	22.844	ug/l	97
59) 2-Hexanone	9.433	43	20358	21.731	ug/l	98
61) Tetrachloroethene	9.275	164	4653	4.785	ug/l	97
62) Toluene	8.720	91	17354	5.027	ug/l	98
64) Chlorobenzene	10.080	112	11245	5.212	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	4113	5.128	ug/l	95
66) Ethyl Benzene	10.195	91	19128	5.007	ug/l	98
67) m/p-Xylenes	10.305	106	15032	10.160	ug/l	97
68) o-Xylene	10.640	106	7294	5.024	ug/l	99
69) Styrene	10.659	104	11703	4.855	ug/l	99
70) Isopropylbenzene	10.964	105	19474	5.158	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	5567	5.026	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	5345m	4.845	ug/l	
73) Bromobenzene	11.201	156	4742	5.109	ug/l	98
74) n-propylbenzene	11.305	91	21784	5.051	ug/l	98
75) 2-Chlorotoluene	11.366	91	13273	4.997	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	15797	4.988	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	1164	3.634	ug/l	96
78) 4-Chlorotoluene	11.457	91	15200	5.107	ug/l	100
79) tert-butylbenzene	11.713	119	15220	4.988	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	15801	5.012	ug/l	97
81) sec-Butylbenzene	11.890	105	20418	5.286	ug/l	98
82) p-Isopropyltoluene	12.012	119	16566	5.049	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	9110	5.282	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	9085	5.268	ug/l	99
85) n-Butylbenzene	12.335	91	13108	4.849	ug/l	99
86) Hexachloroethane	12.543	117	2351	4.545	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	8788	5.253	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	1113	4.134	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	5503	5.177	ug/l	98
90) Hexachlorobutadiene	13.725	225	2527	5.665	ug/l	100
91) Naphthalene	13.780	128	16982	4.591	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	5791	5.397	ug/l	96

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

