

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011520\
 Data File : VX014610.D
 Acq On : 15 Jan 2020 11:10
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 1/16/2020 9:41:57 AM

Quant Time: Jan 15 12:18:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:07:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	77322	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	416470	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	375134	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	161623	29.19	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.30%
60) 4-Bromofluorobenzene	11.13	95	179285	29.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.67%
63) Toluene-d8	8.71	98	515881	30.77	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	107601	27.549	ug/l 99
3) Chloromethane	1.32	50	116842	21.225	ug/l 94
4) Vinyl Chloride	1.40	62	130264	23.083	ug/l 99
5) Bromomethane	1.64	94	67982	16.479	ug/l 100
6) Chloroethane	1.72	64	74407	21.346	ug/l 99
7) Trichlorofluoromethane	1.92	101	137720	19.612	ug/l 99
8) Diethyl Ether	2.18	74	59542	18.447	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.38	101	82162	19.618	ug/l 99
10) 1,1-Dichloroethene	2.37	96	80431	18.576	ug/l 98
11) Methyl Iodide	2.50	142	105179	18.870	ug/l 98
12) Methyl Acetate	2.76	43	150759	22.491	ug/l 100
13) Acrolein	2.28	56	77662	95.526	ug/l 98
14) Acrylonitrile	3.13	53	258133	98.509	ug/l 98
15) Acetone	2.43	58	90537	117.614	ug/l 82
16) Carbon Disulfide	2.56	76	218301	18.611	ug/l 99
17) Allyl chloride	2.72	41	147752	18.990	ug/l 95
18) Methylene Chloride	2.85	84	96624	18.212	ug/l 96
19) trans-1,2-Dichloroethene	3.16	96	87030	18.355	ug/l 95
20) Diisopropyl ether	3.84	45	299796	18.778	ug/l 98
21) 1,1-Dichloroethane	3.69	63	162043	18.702	ug/l 98
22) cis-1,2-Dichloroethene	4.59	96	99379	18.081	ug/l 97
23) tert-Butyl Alcohol	3.03	59	101850	99.095	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	270902	18.522	ug/l 98
25) Chloroform	5.20	83	156103	18.897	ug/l 96
26) Cyclohexane	5.57	56	148240	19.187	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	116434	19.355	ug/l 99
30) 2-Butanone	4.65	43	384576	108.458	ug/l 99
31) 2,2-Dichloropropane	4.58	77	123599	22.211	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	127727	19.196	ug/l 99
33) Carbon Tetrachloride	5.78	117	108993	19.269	ug/l 97
34) Benzene	6.14	78	367915	19.614	ug/l 98
35) Methacrylonitrile	5.03	41	75041	19.677	ug/l 96
36) 1,2-Dichloroethane	6.18	62	128096	19.659	ug/l 99
37) Trichloroethene	7.21	130	99946	19.581	ug/l 94
38) Methylcyclohexane	7.46	83	145743	20.310	ug/l 99
39) 1,2-Dichloropropane	7.51	63	94591	19.416	ug/l 91
40) Dibromomethane	7.65	93	60093	19.308	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	115793	19.215	ug/l	99
42) Vinyl Acetate	3.80	43	1143778	91.365	ug/l	99
43) Ethyl Acetate	4.82	43	138528	20.360	ug/l	99
44) Isopropyl Acetate	6.43	43	215787	18.936	ug/l	100
45) 1,4-Dioxane	7.73	88	45129	422.896	ug/l	98
46) Methyl methacrylate	7.76	41	105859	19.125	ug/l	99
47) n-amyl Acetate	10.89	43	170778	16.854	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	125773	19.122	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	142721	19.295	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	93611	19.489	ug/l	98
51) Ethyl methacrylate	9.17	69	136442	17.859	ug/l	98
52) 1,3-Dichloropropane	9.37	76	156231	19.144	ug/l	98
53) Dibromochloromethane	9.57	129	90770	18.899	ug/l	100
54) 1,2-Dibromoethane	9.67	107	96605	19.534	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	324726	96.418	ug/l	100
56) Bromoform	10.85	173	69804	18.637	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	697251	99.339	ug/l	99
59) 2-Hexanone	9.48	43	541690	101.695	ug/l	99
61) Tetrachloroethene	9.33	164	108868	21.937	ug/l	97
62) Toluene	8.78	91	388340	19.464	ug/l	99
64) Chlorobenzene	10.14	112	241347	19.308	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	89169	19.265	ug/l	99
66) Ethyl Benzene	10.25	91	416772	19.088	ug/l	99
67) m/p-Xylenes	10.36	106	320986	38.457	ug/l	100
68) o-Xylene	10.70	106	154980	18.743	ug/l	100
69) Styrene	10.71	104	259940	18.486	ug/l	99
70) Isopropylbenzene	11.01	105	405487	18.977	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	138530	18.282	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	117737m	17.456	ug/l	
73) Bromobenzene	11.25	156	107429	18.834	ug/l	99
74) n-propylbenzene	11.35	91	457262	18.867	ug/l	99
75) 2-Chlorotoluene	11.42	91	276225	18.863	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	337380	18.613	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	41687	18.716	ug/l	96
78) 4-Chlorotoluene	11.51	91	312175	18.656	ug/l	100
79) tert-butylbenzene	11.76	119	311849	17.849	ug/l	97
80) 1,2,4-Trimethylbenzene	11.80	105	339641	18.739	ug/l	99
81) sec-Butylbenzene	11.94	105	383358	18.447	ug/l	100
82) p-Isopropyltoluene	12.06	119	353635	18.857	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	185683	18.676	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	180202	18.202	ug/l	99
85) n-Butylbenzene	12.39	91	294431	18.673	ug/l	99
86) Hexachloroethane	12.59	117	60726	17.850	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	187919	18.609	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	28751	19.036	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	119532	18.520	ug/l	99
90) Hexachlorobutadiene	13.78	225	60452	19.705	ug/l	99
91) Naphthalene	13.83	128	370787	19.114	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	122868	18.769	ug/l	99

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

