

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\
 Data File : VX009651.D
 Acq On : 17 May 2019 09:45
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 11:16:37 AM

Quant Time: May 18 05:10:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	35916	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	210291	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	187629	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	89386	30.00	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.00%
60) 4-Bromofluorobenzene	11.13	95	96562	30.29	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.97%
63) Toluene-d8	8.71	98	266445	29.95	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	30536	16.000	ug/l 99
3) Chloromethane	1.32	50	44368	17.296	ug/l 98
4) Vinyl Chloride	1.41	62	44643	17.445	ug/l 96
5) Bromomethane	1.64	94	29863	18.409	ug/l 99
6) Chloroethane	1.72	64	29141	17.364	ug/l 98
7) Trichlorofluoromethane	1.93	101	58874	18.631	ug/l 98
8) Diethyl Ether	2.19	74	27074	18.451	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.38	101	36851	18.835	ug/l 99
10) 1,1-Dichloroethene	2.37	96	35405	18.023	ug/l 95
11) Methyl Iodide	2.51	142	36984	17.318	ug/l 93
12) Methyl Acetate	2.77	43	67375	18.209	ug/l 96
13) Acrolein	2.29	56	43977	86.654	ug/l 99
14) Acrylonitrile	3.14	53	148837	92.686	ug/l 99
15) Acetone	2.44	58	49231	106.780	ug/l 92
16) Carbon Disulfide	2.57	76	92907	17.479	ug/l 99
17) Allyl chloride	2.73	41	86748	18.393	ug/l 98
18) Methylene Chloride	2.85	84	43855	18.472	ug/l 97
19) trans-1,2-Dichloroethene	3.17	96	38580	18.419	ug/l 99
20) Diisopropyl ether	3.85	45	176358	18.989	ug/l 96
21) 1,1-Dichloroethane	3.70	63	84353	18.767	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	46720	18.518	ug/l 97
23) tert-Butyl Alcohol	3.04	59	61918	91.189	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	144582	18.806	ug/l 99
25) Chloroform	5.21	83	77591	18.917	ug/l 99
26) Cyclohexane	5.57	56	78229	18.675	ug/l # 96
29) 1,1-Dichloropropene	5.79	75	58559	18.978	ug/l 99
30) 2-Butanone	4.67	43	235016	97.254	ug/l 100
31) 2,2-Dichloropropane	4.58	77	63676	18.719	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	63279	18.917	ug/l 97
33) Carbon Tetrachloride	5.78	117	52672	18.820	ug/l 97
34) Benzene	6.14	78	179163	18.833	ug/l 99
35) Methacrylonitrile	5.04	41	46772	18.500	ug/l 96
36) 1,2-Dichloroethane	6.19	62	66464	19.255	ug/l 100
37) Trichloroethene	7.21	130	42558	18.584	ug/l 96
38) Methylcyclohexane	7.46	83	72907	19.124	ug/l 99
39) 1,2-Dichloropropane	7.51	63	52139	19.246	ug/l 99
40) Dibromomethane	7.66	93	28851	18.764	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	59130	18.827	ug/l	100
42) Vinyl Acetate	3.81	43	773217	96.947	ug/l	99
43) Ethyl Acetate	4.83	43	82139	18.811	ug/l	99
44) Isopropyl Acetate	6.44	43	132210	18.690	ug/l	99
45) 1,4-Dioxane	7.74	88	25725	370.405	ug/l	98
46) Methyl methacrylate	7.77	41	66452	18.821	ug/l	98
47) n-amyl Acetate	10.90	43	119778	18.796	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	67607	18.449	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	75595	18.791	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	46019	19.535	ug/l	97
51) Ethyl methacrylate	9.18	69	81550	18.733	ug/l	99
52) 1,3-Dichloropropane	9.37	76	80086	19.156	ug/l	99
53) Dibromochloromethane	9.58	129	43349	18.478	ug/l	99
54) 1,2-Dibromoethane	9.67	107	45238	18.725	ug/l	99
55) 2-Chloroethyl vinyl ether	8.30	63	196182	84.573	ug/l	99
56) Bromoform	10.85	173	33108	18.384	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	437711	94.875	ug/l	100
59) 2-Hexanone	9.49	43	348940	96.429	ug/l	98
61) Tetrachloroethene	9.34	164	40277	19.472	ug/l	97
62) Toluene	8.78	91	190536	19.004	ug/l	100
64) Chlorobenzene	10.13	112	116098	19.241	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	41923	18.975	ug/l	99
66) Ethyl Benzene	10.25	91	213056	19.075	ug/l	99
67) m/p-Xylenes	10.36	106	156075	38.273	ug/l	100
68) o-Xylene	10.69	106	77358	19.292	ug/l	98
69) Styrene	10.71	104	133773	19.004	ug/l	99
70) Isopropylbenzene	11.02	105	208156	19.303	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	75574	19.136	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	64746m	19.024	ug/l	
73) Bromobenzene	11.26	156	50343	18.895	ug/l	97
74) n-propylbenzene	11.36	91	246276	19.707	ug/l	100
75) 2-Chlorotoluene	11.42	91	143405	19.132	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	178665	19.559	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	24109	17.562	ug/l	93
78) 4-Chlorotoluene	11.51	91	165487	19.439	ug/l	99
79) tert-butylbenzene	11.77	119	169618	19.208	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	176745	19.305	ug/l	98
81) sec-Butylbenzene	11.94	105	206591	19.691	ug/l	100
82) p-Isopropyltoluene	12.06	119	187620	19.659	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	91431	19.215	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	92377	19.486	ug/l	99
85) n-Butylbenzene	12.38	91	172864	19.795	ug/l	99
86) Hexachloroethane	12.60	117	29930	18.430	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	92856	19.386	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	17770	19.363	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	67107	19.657	ug/l	100
90) Hexachlorobutadiene	13.78	225	35390	20.753	ug/l	99
91) Naphthalene	13.83	128	217003	19.414	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	69561	20.044	ug/l	99

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

