

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012519\
 Data File : VX007221.D
 Acq On : 25 Jan 2019 11:20
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICV020

Manual Integrations
 APPROVED

MMDadoda
 1/28/2019 12:05:22 PM

Quant Time: Jan 28 10:41:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 28 10:35:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	85472	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	469016	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	429559	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	170925	30.46	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.53%
60) 4-Bromofluorobenzene	11.13	95	205920	31.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.53%
63) Toluene-d8	8.71	98	569852	29.43	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	76454	19.928	ug/l 98
3) Chloromethane	1.33	50	91654	21.368	ug/l 98
4) Vinyl Chloride	1.41	62	100350	20.617	ug/l 98
5) Bromomethane	1.65	94	81990	16.161	ug/l 95
6) Chloroethane	1.73	64	64341	19.614	ug/l 97
7) Trichlorofluoromethane	1.93	101	165253	20.110	ug/l 98
8) Diethyl Ether	2.19	74	62885	20.245	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.39	101	99649	20.531	ug/l 99
10) 1,1-Dichloroethene	2.38	96	88499	20.062	ug/l 94
11) Methyl Iodide	2.51	142	117051	16.355	ug/l 95
12) Methyl Acetate	2.78	43	150752	20.066	ug/l 98
13) Acrolein	2.29	56	52189	95.954	ug/l 96
14) Acrylonitrile	3.15	53	287617	102.256	ug/l 100
15) Acetone	2.45	58	86586	108.303	ug/l 96
16) Carbon Disulfide	2.57	76	211778	19.910	ug/l 97
17) Allyl chloride	2.73	41	156604	20.418	ug/l 99
18) Methylene Chloride	2.86	84	103646	20.385	ug/l 94
19) trans-1,2-Dichloroethene	3.17	96	96007	20.099	ug/l 98
20) Diisopropyl ether	3.87	45	287429	20.129	ug/l 97
21) 1,1-Dichloroethane	3.70	63	170442	20.899	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	105151	20.017	ug/l 99
23) tert-Butyl Alcohol	3.06	59	134245	113.572	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	315345	20.408	ug/l 98
25) Chloroform	5.21	83	166858	19.795	ug/l 94
26) Cyclohexane	5.57	56	141324	20.575	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	122361	20.013	ug/l 99
30) 2-Butanone	4.70	43	379466	103.870	ug/l # 97
31) 2,2-Dichloropropane	4.59	77	122066	19.761	ug/l 100
32) 1,1,1-Trichloroethane	5.50	97	139934	19.366	ug/l 99
33) Carbon Tetrachloride	5.78	117	124029	19.527	ug/l 95
34) Benzene	6.14	78	369383	19.586	ug/l 99
35) Methacrylonitrile	5.06	41	76002	20.381	ug/l 93
36) 1,2-Dichloroethane	6.20	62	128331	19.720	ug/l 100
37) Trichloroethene	7.21	130	110442	19.861	ug/l 96
38) Methylcyclohexane	7.46	83	156463	20.192	ug/l 98
39) 1,2-Dichloropropane	7.51	63	93972	19.869	ug/l 99
40) Dibromomethane	7.66	93	68801	20.195	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	113030	18.904	ug/l	94
42) Vinyl Acetate	3.82	43	1215461	98.127	ug/l	100
43) Ethyl Acetate	4.85	43	132888	19.494	ug/l	100
44) Isopropyl Acetate	6.46	43	210306	19.753	ug/l	98
45) 1,4-Dioxane	7.75	88	53579	415.286	ug/l	98
46) Methyl methacrylate	7.77	41	106327	19.532	ug/l	97
47) n-amyl Acetate	10.90	43	197289	21.074	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	126060	19.331	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	140986	19.461	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	102408	20.028	ug/l	93
51) Ethyl methacrylate	9.18	69	145054	19.853	ug/l	97
52) 1,3-Dichloropropane	9.37	76	161508	19.726	ug/l	97
53) Dibromochloromethane	9.58	129	98066	18.975	ug/l	97
54) 1,2-Dibromoethane	9.67	107	108081	19.634	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	392295	97.602	ug/l	99
56) Bromoform	10.85	173	73434	18.713	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	721622	100.463	ug/l	99
59) 2-Hexanone	9.49	43	570272	102.594	ug/l	99
61) Tetrachloroethene	9.34	164	113946	19.031	ug/l	97
62) Toluene	8.78	91	424484	19.632	ug/l	100
64) Chlorobenzene	10.14	112	288784	20.246	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.22	131	97865	19.370	ug/l	98
66) Ethyl Benzene	10.25	91	471044	20.107	ug/l	97
67) m/p-Xylenes	10.36	106	369355	39.924	ug/l	100
68) o-Xylene	10.69	106	182572	20.145	ug/l	97
69) Styrene	10.71	104	294742	20.159	ug/l	99
70) Isopropylbenzene	11.02	105	487502	20.319	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	157588	20.515	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	128991m	17.860	ug/l	
73) Bromobenzene	11.26	156	133872	20.159	ug/l	99
74) n-propylbenzene	11.36	91	554136	20.522	ug/l	99
75) 2-Chlorotoluene	11.42	91	326887	20.414	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	408376	20.394	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	37692	17.963	ug/l	98
78) 4-Chlorotoluene	11.51	91	378605	20.307	ug/l	98
79) tert-butylbenzene	12.06	119	447962	20.676	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	414310	20.434	ug/l	99
81) sec-Butylbenzene	11.94	105	502349	20.805	ug/l	100
82) p-Isopropyltoluene	12.06	119	447962	20.676	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	244409	20.705	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	243358	20.605	ug/l	98
85) n-Butylbenzene	12.39	91	375708	20.206	ug/l	99
86) Hexachloroethane	12.60	117	62685	18.713	ug/l	90
87) 1,2-Dichlorobenzene	12.39	146	243328	20.702	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	32883	21.002	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	178051	22.065	ug/l	99
90) Hexachlorobutadiene	13.79	225	81446	21.163	ug/l	99
91) Naphthalene	13.83	128	539322	22.080	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	176440	22.052	ug/l	98

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

