

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021619\
 Data File : VX007560.D
 Acq On : 15 Feb 2019 11:09
 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
 2/18/2019 10:39:23 AM

Quant Time: Feb 16 03:55:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 13 07:51:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	96824	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	516413	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	463032	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	186235	29.73	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.10%
60) 4-Bromofluorobenzene	11.13	95	211486	29.76	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.20%
63) Toluene-d8	8.71	98	617889	29.52	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	101574	20.716	ug/l 100
3) Chloromethane	1.33	50	105338	19.548	ug/l 97
4) Vinyl Chloride	1.42	62	116296	19.187	ug/l 99
5) Bromomethane	1.64	94	110235	20.366	ug/l 96
6) Chloroethane	1.73	64	76066	18.462	ug/l 97
7) Trichlorofluoromethane	1.93	101	191239	20.128	ug/l 100
8) Diethyl Ether	2.20	74	71488	18.835	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	111572	20.813	ug/l 97
10) 1,1-Dichloroethene	2.38	96	103253	19.411	ug/l 99
11) Methyl Iodide	2.52	142	123594	16.166	ug/l 95
12) Methyl Acetate	2.78	43	129016	17.587	ug/l 97
13) Acrolein	2.30	56	237976	185.971	ug/l 99
14) Acrylonitrile	3.15	53	311651	92.203	ug/l 99
15) Acetone	2.45	58	104304	113.707	ug/l 99
16) Carbon Disulfide	2.57	76	275052	19.499	ug/l 99
17) Allyl chloride	2.73	41	178087	19.540	ug/l 98
18) Methylene Chloride	2.86	84	112573	18.819	ug/l 96
19) trans-1,2-Dichloroethene	3.17	96	108576	19.084	ug/l 92
20) Diisopropyl ether	3.87	45	330694	19.200	ug/l 97
21) 1,1-Dichloroethane	3.70	63	192944	19.982	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	124830	19.716	ug/l 99
23) tert-Butyl Alcohol	3.07	59	132547	93.299	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	345410	18.711	ug/l 99
25) Chloroform	5.21	83	195919	19.211	ug/l 100
26) Cyclohexane	5.58	56	166020	20.504	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	143902	19.977	ug/l 99
30) 2-Butanone	4.70	43	436490	102.392	ug/l 99
31) 2,2-Dichloropropane	4.59	77	143588	24.535	ug/l 98
32) 1,1,1-Trichloroethane	5.50	97	167543	19.459	ug/l 99
33) Carbon Tetrachloride	5.79	117	148774	19.547	ug/l 97
34) Benzene	6.15	78	433364	19.084	ug/l 98
35) Methacrylonitrile	5.06	41	82017	18.504	ug/l 99
36) 1,2-Dichloroethane	6.20	62	147525	19.089	ug/l 100
37) Trichloroethene	7.21	130	127435	19.519	ug/l 97
38) Methylcyclohexane	7.46	83	183842	22.047	ug/l 99
39) 1,2-Dichloropropane	7.52	63	109356	19.361	ug/l 99
40) Dibromomethane	7.66	93	76638	18.787	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	135933	18.777	ug/l	98
42) Vinyl Acetate	3.82	43	1472251	98.668	ug/l	99
43) Ethyl Acetate	4.85	43	157123	19.247	ug/l #	81
44) Isopropyl Acetate	6.46	43	242620	19.249	ug/l	99
45) 1,4-Dioxane	7.75	88	58552	393.613	ug/l	96
46) Methyl methacrylate	7.77	41	121877	19.095	ug/l	97
47) n-amyl Acetate	10.90	43	213704	19.236	ug/l	97
48) t-1,3-Dichloropropene	9.04	75	146079	19.546	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	161650	19.424	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	116738	19.626	ug/l	92
51) Ethyl methacrylate	9.18	69	162689	18.866	ug/l	98
52) 1,3-Dichloropropane	9.37	76	182326	19.003	ug/l	100
53) Dibromochloromethane	9.59	129	116848	18.887	ug/l	100
54) 1,2-Dibromoethane	9.67	107	124073	19.050	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	456287	104.077	ug/l	100
56) Bromoform	10.85	173	85245	18.267	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	794191	95.357	ug/l	99
59) 2-Hexanone	9.49	43	619094	97.863	ug/l	99
61) Tetrachloroethene	9.34	164	132715	20.190	ug/l	97
62) Toluene	8.78	91	485686	19.260	ug/l	98
64) Chlorobenzene	10.14	112	315907	19.277	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	114312	19.258	ug/l	99
66) Ethyl Benzene	10.25	91	524559	19.602	ug/l	100
67) m/p-Xylenes	10.36	106	410894	39.148	ug/l	100
68) o-Xylene	10.69	106	196965	19.241	ug/l	100
69) Styrene	10.71	104	318970	19.309	ug/l	99
70) Isopropylbenzene	11.02	105	534544	19.793	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	169781	19.018	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	161715m	19.812	ug/l	
73) Bromobenzene	11.26	156	144510	19.599	ug/l	99
74) n-propylbenzene	11.36	91	607712	20.266	ug/l	100
75) 2-Chlorotoluene	11.42	91	353551	19.719	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	441226	20.014	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	45756	19.420	ug/l	95
78) 4-Chlorotoluene	11.51	91	402036	19.645	ug/l	99
79) tert-butylbenzene	12.06	119	475224	20.301	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	447772	20.009	ug/l	100
81) sec-Butylbenzene	11.94	105	535906	20.356	ug/l	100
82) p-Isopropyltoluene	12.06	119	475224	20.301	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	259641	20.031	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	255561	19.757	ug/l	99
85) n-Butylbenzene	12.38	91	402952	20.744	ug/l	99
86) Hexachloroethane	12.60	117	77817	20.022	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	252669	19.421	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	34311	18.416	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	174390	20.409	ug/l	100
90) Hexachlorobutadiene	13.78	225	85104	21.317	ug/l	97
91) Naphthalene	13.83	128	527895	19.371	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	171632	19.759	ug/l	99

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

