

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050119\
 Data File : VX009250.D
 Acq On : 01 May 2019 11:07
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 10:53:03 AM

Quant Time: May 02 06:39:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:30:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	32075	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	268501	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	274782	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	101317	38.38	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	127.93%
60) 4-Bromofluorobenzene	11.13	95	144242	30.59	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.97%
63) Toluene-d8	8.71	98	370819	27.92	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	93.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	8130	4.808	ug/l 86
3) Chloromethane	1.32	50	10911	4.853	ug/l 97
4) Vinyl Chloride	1.41	62	10981	4.843	ug/l 96
5) Bromomethane	1.64	94	6445	5.012	ug/l 97
6) Chloroethane	1.72	64	7887	5.185	ug/l 96
7) Trichlorofluoromethane	1.93	101	14778	5.357	ug/l 97
8) Diethyl Ether	2.18	74	6958	5.428	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	9800	5.675	ug/l 98
10) 1,1-Dichloroethene	2.37	96	8867	5.112	ug/l 97
11) Methyl Iodide	2.51	142	7342	4.197	ug/l 96
12) Methyl Acetate	2.77	43	17190	5.425	ug/l 99
13) Acrolein	2.29	56	13458	32.495	ug/l 98
14) Acrylonitrile	3.14	53	34895	24.943	ug/l 100
15) Acetone	2.44	58	10681	25.700	ug/l 97
16) Carbon Disulfide	2.57	76	20884	4.489	ug/l 98
17) Allyl chloride	2.73	41	21082	5.156	ug/l 99
18) Methylene Chloride	2.85	84	11026	5.335	ug/l 97
19) trans-1,2-Dichloroethene	3.17	96	9196	5.029	ug/l 96
20) Diisopropyl ether	3.85	45	43439	5.341	ug/l 98
21) 1,1-Dichloroethane	3.70	63	20649	5.306	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	11522	5.228	ug/l 95
23) tert-Butyl Alcohol	3.04	59	13274	23.278	ug/l # 99
24) Methyl tert-Butyl Ether	3.19	73	35915	5.434	ug/l 99
25) Chloroform	5.20	83	19380	5.388	ug/l 99
26) Cyclohexane	5.58	56	19089	5.148	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	14581	3.739	ug/l 99
30) 2-Butanone	4.67	43	53237	17.441	ug/l 100
31) 2,2-Dichloropropane	4.58	77	15887	3.732	ug/l 100
32) 1,1,1-Trichloroethane	5.49	97	15626	3.815	ug/l 95
33) Carbon Tetrachloride	5.78	117	13007	3.735	ug/l 96
34) Benzene	6.14	78	44256	3.660	ug/l 97
35) Methacrylonitrile	5.04	41	10858	3.394	ug/l 94
36) 1,2-Dichloroethane	6.19	62	16836	3.865	ug/l 98
37) Trichloroethene	7.21	130	10842	3.828	ug/l 93
38) Methylcyclohexane	7.46	83	17517	3.675	ug/l 98
39) 1,2-Dichloropropane	7.51	63	12394	3.651	ug/l 97
40) Dibromomethane	7.66	93	7397	3.826	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	14227	3.674	ug/l	92
42) Vinyl Acetate	3.81	43	173719	17.171	ug/l	100
43) Ethyl Acetate	4.83	43	17811	3.154	ug/l	93
44) Isopropyl Acetate	6.44	43	31245	3.596	ug/l	99
45) 1,4-Dioxane	7.74	88	4831	55.928	ug/l #	85
46) Methyl methacrylate	7.77	41	14460	3.292	ug/l	94
47) n-amyl Acetate	10.90	43	26915	3.469	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	15330	3.462	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	17293	3.508	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	11061	3.726	ug/l	97
51) Ethyl methacrylate	9.18	69	18170	3.371	ug/l	98
52) 1,3-Dichloropropane	9.37	76	19142	3.630	ug/l	97
53) Dibromochloromethane	9.58	129	10097	3.538	ug/l	100
54) 1,2-Dibromoethane	9.67	107	11103	3.682	ug/l	96
55) 2-Chloroethyl vinyl ether	8.30	63	50864	16.749	ug/l	99
56) Bromoform	10.85	173	7460	3.517	ug/l #	96
58) 4-Methyl-2-Pentanone	8.64	43	100703	14.988	ug/l	99
59) 2-Hexanone	9.49	43	77379	14.602	ug/l	99
61) Tetrachloroethene	9.34	164	9850	3.255	ug/l	94
62) Toluene	8.78	91	46565	3.155	ug/l	99
64) Chlorobenzene	10.13	112	28019	3.218	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	9896	3.140	ug/l	98
66) Ethyl Benzene	10.25	91	51349	3.153	ug/l	99
67) m/p-Xylenes	10.36	106	37237	6.280	ug/l	99
68) o-Xylene	10.69	106	18711	3.246	ug/l	96
69) Styrene	10.71	104	31083	3.069	ug/l	99
70) Isopropylbenzene	11.02	105	49814	3.171	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	18358	3.250	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	15139m	3.039	ug/l	
73) Bromobenzene	11.25	156	12132	3.139	ug/l	97
74) n-propylbenzene	11.36	91	57763	3.202	ug/l	99
75) 2-Chlorotoluene	11.41	91	34651	3.190	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	41220	3.124	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	5079	2.763	ug/l	92
78) 4-Chlorotoluene	11.51	91	38771	3.189	ug/l	98
79) tert-butylbenzene	11.77	119	41108	3.226	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	41595	3.157	ug/l	100
81) sec-Butylbenzene	11.94	105	48888	3.238	ug/l	98
82) p-Isopropyltoluene	12.06	119	43660	3.187	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	21422	3.197	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	21758	3.296	ug/l	97
85) n-Butylbenzene	12.38	91	37878	3.116	ug/l	99
86) Hexachloroethane	12.59	117	6928	2.979	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	21808	3.184	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	3785	2.903	ug/l	90
89) 1,2,4-Trichlorobenzene	13.65	180	15006	3.200	ug/l	97
90) Hexachlorobutadiene	13.78	225	7765	3.266	ug/l	99
91) Naphthalene	13.83	128	47894	2.982	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	15763	3.195	ug/l	100

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

