

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010976.D
 Acq On : 18 Jul 2019 22:22
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 9:56:22 AM

Quant Time: Jul 19 03:24:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:13:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	40759	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	221910	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	197447	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	80722	24.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	82.70%
60) 4-Bromofluorobenzene	11.13	95	92870	28.11	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.70%
63) Toluene-d8	8.71	98	263917	28.65	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	9946	4.326	ug/l 97
3) Chloromethane	1.32	50	10697	3.774	ug/l 99
4) Vinyl Chloride	1.41	62	10826	3.819	ug/l 94
5) Bromomethane	1.64	94	6613	3.615	ug/l 93
6) Chloroethane	1.72	64	7110	3.912	ug/l 96
7) Trichlorofluoromethane	1.93	101	18810	5.062	ug/l 94
8) Diethyl Ether	2.19	74	6474	4.015	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	2.38	101	10553	4.716	ug/l 99
10) 1,1-Dichloroethene	2.37	96	10883	4.838	ug/l 96
11) Methyl Iodide	2.51	142	10856	4.276	ug/l 93
12) Methyl Acetate	2.78	43	13929	3.441	ug/l 95
13) Acrolein	2.29	56	9311	16.942	ug/l 99
14) Acrylonitrile	3.14	53	28403	16.499	ug/l 97
15) Acetone	2.44	58	8216	16.784	ug/l 96
16) Carbon Disulfide	2.57	76	24683	4.126	ug/l 97
17) Allyl chloride	2.73	41	14884	3.005	ug/l 94
18) Methylene Chloride	2.85	84	12452	4.650	ug/l 95
19) trans-1,2-Dichloroethene	3.17	96	11458	4.777	ug/l 98
20) Diisopropyl ether	3.85	45	32735	3.324	ug/l 96
21) 1,1-Dichloroethane	3.70	63	18802	3.835	ug/l 96
22) cis-1,2-Dichloroethene	4.59	96	13245	4.645	ug/l 98
23) tert-Butyl Alcohol	3.04	59	19893	26.379	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	34163	4.024	ug/l 99
25) Chloroform	5.21	83	21060	4.578	ug/l 96
26) Cyclohexane	5.58	56	17849	3.929	ug/l # 57
29) 1,1-Dichloropropene	5.80	75	14871	4.606	ug/l 88
30) 2-Butanone	4.67	43	38925	16.356	ug/l 98
31) 2,2-Dichloropropane	4.59	77	12321	3.620	ug/l # 82
32) 1,1,1-Trichloroethane	5.50	97	16562	4.637	ug/l 99
33) Carbon Tetrachloride	5.78	117	13620	4.563	ug/l 96
34) Benzene	6.15	78	45350	4.583	ug/l 97
35) Methacrylonitrile	5.04	41	7914	3.200	ug/l 95
36) 1,2-Dichloroethane	6.19	62	16155	4.531	ug/l # 89
37) Trichloroethene	7.22	130	13369	5.391	ug/l 85
38) Methylcyclohexane	7.46	83	18710	4.666	ug/l 99
39) 1,2-Dichloropropane	7.51	63	11164	4.049	ug/l 91
40) Dibromomethane	7.66	93	8127	4.960	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	13273	4.079	ug/l	98
42) Vinyl Acetate	3.81	43	127373	16.295	ug/l	100
43) Ethyl Acetate	4.84	43	15369	3.575	ug/l	99
44) Isopropyl Acetate	6.45	43	23552	3.343	ug/l	97
45) 1,4-Dioxane	7.74	88	6746	92.303	ug/l	98
46) Methyl methacrylate	7.77	41	10773	3.087	ug/l	98
47) n-amyl Acetate	10.90	43	18379	2.900	ug/l	96
48) t-1,3-Dichloropropene	9.04	75	12404	3.323	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	14640	3.564	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	11748	4.723	ug/l	94
51) Ethyl methacrylate	9.18	69	16997	3.831	ug/l	96
52) 1,3-Dichloropropane	9.37	76	19112	4.408	ug/l	98
53) Dibromochloromethane	9.58	129	10203	4.075	ug/l	98
54) 1,2-Dibromoethane	9.67	107	12145	4.711	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	40591	17.900	ug/l	98
56) Bromoform	10.85	173	6565	3.444	ug/l	96
58) 4-Methyl-2-Pentanone	8.64	43	80084	17.580	ug/l	99
59) 2-Hexanone	9.49	43	60039	16.874	ug/l	98
61) Tetrachloroethene	9.34	164	13614	5.983	ug/l	96
62) Toluene	8.78	91	51929	4.931	ug/l	99
64) Chlorobenzene	10.13	112	32878	5.115	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	10056	4.287	ug/l	94
66) Ethyl Benzene	10.25	91	57435	4.886	ug/l	95
67) m/p-Xylenes	10.36	106	43065	9.897	ug/l	95
68) o-Xylene	10.69	106	21733	5.088	ug/l	96
69) Styrene	10.71	104	32908	4.441	ug/l	98
70) Isopropylbenzene	11.02	105	54472	4.775	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	17865	4.363	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	15105m	4.335	ug/l	
73) Bromobenzene	11.26	156	15281	5.316	ug/l	99
74) n-propylbenzene	11.36	91	60281	4.583	ug/l	100
75) 2-Chlorotoluene	11.42	91	37777	4.802	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	45487	4.697	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	3249	2.392	ug/l	90
78) 4-Chlorotoluene	11.51	91	41964	4.682	ug/l	100
79) tert-butylbenzene	11.77	119	43995	4.709	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	46604	4.796	ug/l	99
81) sec-Butylbenzene	11.94	105	50989	4.588	ug/l	100
82) p-Isopropyltoluene	12.06	119	46207	4.553	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	25655	4.992	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	24849	4.837	ug/l	98
85) n-Butylbenzene	12.38	91	36897	4.019	ug/l	98
86) Hexachloroethane	12.59	117	5744	3.432	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	25582	4.945	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	3475	3.708	ug/l	92
89) 1,2,4-Trichlorobenzene	13.65	180	16278	4.458	ug/l	99
90) Hexachlorobutadiene	13.78	225	8370	4.614	ug/l	98
91) Naphthalene	13.83	128	47268	4.012	ug/l	98
92) 1,2,3-Trichlorobenzene	14.02	180	16688	4.519	ug/l	99

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

