

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\
 Data File : VX009661.D
 Acq On : 17 May 2019 14:26
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 11:16:55 AM

Quant Time: May 18 05:27:38 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	27393	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	160940	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	144202	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	69346	30.52	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.73%
60) 4-Bromofluorobenzene	11.13	95	72709	29.67	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.90%
63) Toluene-d8	8.71	98	204646	29.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	24656	16.939	ug/l 98
3) Chloromethane	1.32	50	38439	19.647	ug/l 99
4) Vinyl Chloride	1.41	62	36753	18.830	ug/l 97
5) Bromomethane	1.64	94	24485	19.790	ug/l 97
6) Chloroethane	1.71	64	23444	18.315	ug/l 100
7) Trichlorofluoromethane	1.92	101	47578	19.741	ug/l 98
8) Diethyl Ether	2.19	74	22836	20.405	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	29978	20.090	ug/l 99
10) 1,1-Dichloroethene	2.37	96	28601	19.089	ug/l 89
11) Methyl Iodide	2.51	142	32028	19.664	ug/l 99
12) Methyl Acetate	2.78	43	58175	20.614	ug/l 96
13) Acrolein	2.29	56	46123	119.159	ug/l 99
14) Acrylonitrile	3.14	53	128289	104.747	ug/l 100
15) Acetone	2.45	58	37977	107.999	ug/l 95
16) Carbon Disulfide	2.57	76	73809	18.207	ug/l 99
17) Allyl chloride	2.73	41	70350	19.558	ug/l 97
18) Methylene Chloride	2.85	84	36580	20.201	ug/l 96
19) trans-1,2-Dichloroethene	3.17	96	31848	19.936	ug/l 96
20) Diisopropyl ether	3.85	45	144377	20.382	ug/l 100
21) 1,1-Dichloroethane	3.70	63	68167	19.885	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	38451	19.982	ug/l 98
23) tert-Butyl Alcohol	3.05	59	56103	108.332	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	118424	20.197	ug/l 99
25) Chloroform	5.21	83	64405	20.588	ug/l 95
26) Cyclohexane	5.58	56	62420	19.537	ug/l # 98
29) 1,1-Dichloropropene	5.80	75	47029	19.915	ug/l 99
30) 2-Butanone	4.67	43	197927	107.021	ug/l 100
31) 2,2-Dichloropropane	4.58	77	50878	19.543	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	51746	20.213	ug/l 98
33) Carbon Tetrachloride	5.79	117	42847	20.004	ug/l 97
34) Benzene	6.14	78	146692	20.149	ug/l 99
35) Methacrylonitrile	5.04	41	40524	20.943	ug/l 97
36) 1,2-Dichloroethane	6.19	62	55404	20.972	ug/l 98
37) Trichloroethene	7.21	130	34713	19.807	ug/l 93
38) Methylcyclohexane	7.46	83	58339	19.995	ug/l 99
39) 1,2-Dichloropropane	7.51	63	42931	20.707	ug/l 95
40) Dibromomethane	7.66	93	23954	20.356	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	48729	20.273	ug/l	96
42) Vinyl Acetate	3.81	43	632296	103.588	ug/l	100
43) Ethyl Acetate	4.84	43	71051	21.261	ug/l	98
44) Isopropyl Acetate	6.45	43	111221	20.544	ug/l	99
45) 1,4-Dioxane	7.74	88	22845	429.802	ug/l	98
46) Methyl methacrylate	7.77	41	55429	20.513	ug/l	96
47) n-amyl Acetate	10.90	43	100765	20.661	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	54936	19.588	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	60547	19.666	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	36843	20.436	ug/l	98
51) Ethyl methacrylate	9.18	69	66126	19.848	ug/l	98
52) 1,3-Dichloropropane	9.37	76	65738	20.546	ug/l	99
53) Dibromochloromethane	9.58	129	35748	19.910	ug/l	97
54) 1,2-Dibromoethane	9.67	107	37644	20.359	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	220460	124.182	ug/l	99
56) Bromoform	10.85	173	26641	19.329	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	376748	106.253	ug/l	100
59) 2-Hexanone	9.49	43	297578	107.000	ug/l	99
61) Tetrachloroethene	9.34	164	31816	20.014	ug/l	96
62) Toluene	8.78	91	155093	20.128	ug/l	100
64) Chlorobenzene	10.13	112	94881	20.460	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.22	131	33824	19.920	ug/l	99
66) Ethyl Benzene	10.25	91	174140	20.286	ug/l	99
67) m/p-Xylenes	10.36	106	127062	40.542	ug/l	100
68) o-Xylene	10.69	106	62436	20.260	ug/l	98
69) Styrene	10.71	104	108423	20.042	ug/l	99
70) Isopropylbenzene	11.02	105	169363	20.435	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	63563	20.941	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	55226m	21.114	ug/l	
73) Bromobenzene	11.26	156	41735	20.381	ug/l	99
74) n-propylbenzene	11.36	91	196583	20.468	ug/l	99
75) 2-Chlorotoluene	11.42	91	118082	20.498	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	143816	20.485	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	19484	18.467	ug/l	96
78) 4-Chlorotoluene	11.51	91	132763	20.292	ug/l	99
79) tert-butylbenzene	11.77	119	138061	20.343	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	143443	20.386	ug/l	99
81) sec-Butylbenzene	11.94	105	166373	20.633	ug/l	99
82) p-Isopropyltoluene	12.06	119	149439	20.374	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	74963	20.499	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	72960	20.025	ug/l	99
85) n-Butylbenzene	12.38	91	134634	20.060	ug/l	100
86) Hexachloroethane	12.60	117	24378	19.532	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	76214	20.703	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	14521	20.587	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	53837	20.519	ug/l	99
90) Hexachlorobutadiene	13.78	225	27844	21.245	ug/l	98
91) Naphthalene	13.83	128	175557	20.436	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	56031	21.008	ug/l	99

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

