

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\
 Data File : VX009654.D
 Acq On : 17 May 2019 11:22
 Operator : JC/SP
 Sample : VX0517WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0517WBS01

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 11:16:42 AM

Quant Time: May 18 05:12:21 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	5.02	128	30328	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	171873	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	154701	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	75378	29.96	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.87%
60) 4-Bromofluorobenzene	11.13	95	78917	30.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.07%
63) Toluene-d8	8.71	98	219312	29.90	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	23689	14.700	ug/l 97
3) Chloromethane	1.33	50	38845	17.933	ug/l 99
4) Vinyl Chloride	1.41	62	36929	17.089	ug/l 99
5) Bromomethane	1.64	94	24142	17.624	ug/l 97
6) Chloroethane	1.72	64	23755	16.762	ug/l 98
7) Trichlorofluoromethane	1.93	101	46521	17.434	ug/l 98
8) Diethyl Ether	2.19	74	22162	17.887	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.38	101	28461	17.227	ug/l 99
10) 1,1-Dichloroethene	2.37	96	28606	17.245	ug/l 94
11) Methyl Iodide	2.51	142	31813	17.642	ug/l 97
12) Methyl Acetate	2.78	43	57072	18.266	ug/l 97
13) Acrolein	2.29	56	47266	110.295	ug/l 99
14) Acrylonitrile	3.14	53	127850	94.286	ug/l 99
15) Acetone	2.45	58	36460	93.651	ug/l 99
16) Carbon Disulfide	2.57	76	73309	16.333	ug/l 100
17) Allyl chloride	2.73	41	71056	17.842	ug/l 98
18) Methylene Chloride	2.85	84	35539	17.727	ug/l 99
19) trans-1,2-Dichloroethene	3.17	96	30912	17.477	ug/l 97
20) Diisopropyl ether	3.86	45	141660	18.063	ug/l 90
21) 1,1-Dichloroethane	3.70	63	67223	17.712	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	37658	17.676	ug/l 96
23) tert-Butyl Alcohol	3.05	59	52617	91.769	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	115973	17.864	ug/l 100
25) Chloroform	5.21	83	62310	17.990	ug/l 98
26) Cyclohexane	5.58	56	60632	17.141	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	46152	18.300	ug/l 98
30) 2-Butanone	4.67	43	194442	98.449	ug/l 99
31) 2,2-Dichloropropane	4.59	77	49910	17.951	ug/l 100
32) 1,1,1-Trichloroethane	5.50	97	50174	18.352	ug/l 98
33) Carbon Tetrachloride	5.79	117	41189	18.006	ug/l 99
34) Benzene	6.14	78	143912	18.509	ug/l 100
35) Methacrylonitrile	5.04	41	39213	18.977	ug/l 96
36) 1,2-Dichloroethane	6.20	62	54185	19.206	ug/l 98
37) Trichloroethene	7.21	130	33801	18.059	ug/l 93
38) Methylcyclohexane	7.46	83	53950	17.315	ug/l 99
39) 1,2-Dichloropropane	7.51	63	42386	19.144	ug/l 95
40) Dibromomethane	7.66	93	23916	19.031	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	47288	18.422	ug/l	98
42) Vinyl Acetate	3.82	43	625123	95.899	ug/l	100
43) Ethyl Acetate	4.83	43	71310	19.981	ug/l	100
44) Isopropyl Acetate	6.45	43	109453	18.931	ug/l	98
45) 1,4-Dioxane	7.74	88	21705	382.379	ug/l	98
46) Methyl methacrylate	7.77	41	55746	19.318	ug/l	96
47) n-amyl Acetate	10.90	43	96503	18.529	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	53026	17.705	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	59844	18.201	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	35823	18.606	ug/l	95
51) Ethyl methacrylate	9.18	69	65289	18.350	ug/l	97
52) 1,3-Dichloropropane	9.37	76	64185	18.784	ug/l	100
53) Dibromochloromethane	9.58	129	34969	18.237	ug/l	99
54) 1,2-Dibromoethane	9.67	107	36848	18.661	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	206628	108.987	ug/l	99
56) Bromoform	10.85	173	26398	17.935	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	371202	97.584	ug/l	99
59) 2-Hexanone	9.49	43	290633	97.411	ug/l	100
61) Tetrachloroethene	9.34	164	31318	18.364	ug/l	93
62) Toluene	8.79	91	153147	18.526	ug/l	100
64) Chlorobenzene	10.13	112	91212	18.334	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.22	131	32943	18.084	ug/l	99
66) Ethyl Benzene	10.25	91	168553	18.303	ug/l	97
67) m/p-Xylenes	10.36	106	122628	36.471	ug/l	100
68) o-Xylene	10.69	106	60574	18.322	ug/l	99
69) Styrene	10.71	104	103961	17.913	ug/l	98
70) Isopropylbenzene	11.02	105	163612	18.401	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	62713	19.259	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	54183m	19.309	ug/l	
73) Bromobenzene	11.26	156	40430	18.404	ug/l	98
74) n-propylbenzene	11.36	91	186204	18.072	ug/l	99
75) 2-Chlorotoluene	11.42	91	112953	18.277	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	136470	18.120	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	19120	16.892	ug/l	93
78) 4-Chlorotoluene	11.51	91	125889	17.935	ug/l	100
79) tert-butylbenzene	11.77	119	131423	18.050	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	137507	18.216	ug/l	99
81) sec-Butylbenzene	11.94	105	155735	18.003	ug/l	99
82) p-Isopropyltoluene	12.06	119	141540	17.987	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	70754	18.035	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	70792	18.112	ug/l	99
85) n-Butylbenzene	12.38	91	124760	17.327	ug/l	99
86) Hexachloroethane	12.59	117	23334	17.427	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	72949	18.472	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	14235	18.812	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	49393	17.548	ug/l	99
90) Hexachlorobutadiene	13.78	225	25712	18.287	ug/l	99
91) Naphthalene	13.83	128	162334	17.614	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	51716	18.074	ug/l	99

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

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