

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121219\
 Data File : VX013998.D
 Acq On : 13 Dec 2019 02:26
 Operator : JC/SP
 Sample : VX1212WBS04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX1212WBS04

Manual Integrations
 APPROVED

apatel
 12/13/2019 12:40:18 PM

Quant Time: Dec 13 04:50:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	98883	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	552919	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	496438	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	209940	29.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.83%
60) 4-Bromofluorobenzene	11.14	95	239244	29.84	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.47%
63) Toluene-d8	8.71	98	683302	30.79	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	84915	17.000	ug/l 99
3) Chloromethane	1.32	50	126976	18.036	ug/l 95
4) Vinyl Chloride	1.40	62	128765	17.842	ug/l 98
5) Bromomethane	1.63	94	91031	17.255	ug/l 98
6) Chloroethane	1.71	64	82649	18.540	ug/l 98
7) Trichlorofluoromethane	1.92	101	159634	17.776	ug/l 98
8) Diethyl Ether	2.18	74	75431	18.274	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.37	101	92270	17.228	ug/l 97
10) 1,1-Dichloroethene	2.36	96	98208	17.736	ug/l 96
11) Methyl Iodide	2.50	142	109590	15.374	ug/l 97
12) Methyl Acetate	2.76	43	151658	17.692	ug/l 98
13) Acrolein	2.28	56	102304	98.398	ug/l 100
14) Acrylonitrile	3.13	53	300210	89.586	ug/l 99
15) Acetone	2.44	58	81047	82.329	ug/l 91
16) Carbon Disulfide	2.56	76	258358	17.224	ug/l 97
17) Allyl chloride	2.72	41	170207	17.106	ug/l 94
18) Methylene Chloride	2.85	84	124702	18.379	ug/l 94
19) trans-1,2-Dichloroethene	3.16	96	106430	17.552	ug/l 100
20) Diisopropyl ether	3.84	45	370839	18.164	ug/l 95
21) 1,1-Dichloroethane	3.69	63	199531	18.007	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	124607	17.727	ug/l 99
23) tert-Butyl Alcohol	3.04	59	116017	88.266	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	334523	17.884	ug/l 99
25) Chloroform	5.20	83	194265	18.389	ug/l 98
26) Cyclohexane	5.57	56	172086	17.417	ug/l # 53
29) 1,1-Dichloropropene	5.79	75	143198	17.930	ug/l 98
30) 2-Butanone	4.66	43	417481	88.683	ug/l 99
31) 2,2-Dichloropropane	4.57	77	120653	16.331	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	155033	17.550	ug/l 100
33) Carbon Tetrachloride	5.78	117	131233	17.476	ug/l 97
34) Benzene	6.14	78	446709	17.938	ug/l 98
35) Methacrylonitrile	5.03	41	94395	18.644	ug/l 94
36) 1,2-Dichloroethane	6.18	62	151505	17.514	ug/l 100
37) Trichloroethene	7.21	130	117830	17.388	ug/l 95
38) Methylcyclohexane	7.45	83	160602	16.858	ug/l 99
39) 1,2-Dichloropropane	7.51	63	116964	18.083	ug/l 96
40) Dibromomethane	7.65	93	75613	18.299	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	140653	17.580	ug/l	99
42) Vinyl Acetate	3.80	43	1538434	92.563	ug/l	100
43) Ethyl Acetate	4.82	43	170059	18.826	ug/l	98
44) Isopropyl Acetate	6.43	43	267225	17.663	ug/l	99
45) 1,4-Dioxane	7.74	88	53783	379.616	ug/l	98
46) Methyl methacrylate	7.76	41	129174	17.578	ug/l	98
47) n-amyl Acetate	10.89	43	225501	16.763	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	148185	16.970	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	168666	17.175	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	115273	18.077	ug/l	99
51) Ethyl methacrylate	9.17	69	177328	17.482	ug/l	98
52) 1,3-Dichloropropane	9.37	76	198059	18.281	ug/l	99
53) Dibromochloromethane	9.57	129	109939	17.241	ug/l	100
54) 1,2-Dibromoethane	9.67	107	120099	18.292	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	394267	88.176	ug/l	100
56) Bromoform	10.85	173	79392	15.966	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	838494	90.271	ug/l	99
59) 2-Hexanone	9.49	43	640890	90.919	ug/l	99
61) Tetrachloroethene	9.33	164	113409	17.268	ug/l	97
62) Toluene	8.78	91	480737	18.207	ug/l	100
64) Chlorobenzene	10.14	112	298285	18.032	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	108067	17.643	ug/l	100
66) Ethyl Benzene	10.25	91	520466	18.012	ug/l	99
67) m/p-Xylenes	10.35	106	394499	35.716	ug/l	98
68) o-Xylene	10.70	106	193679	17.700	ug/l	99
69) Styrene	10.71	104	328732	17.666	ug/l	98
70) Isopropylbenzene	11.01	105	506883	17.926	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	178228	17.773	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	159560m	17.876	ug/l	
73) Bromobenzene	11.25	156	132893	17.605	ug/l	100
74) n-propylbenzene	11.35	91	560953	17.490	ug/l	98
75) 2-Chlorotoluene	11.42	91	345034	17.804	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	421810	17.585	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	47402	16.081	ug/l	94
78) 4-Chlorotoluene	11.51	91	384037	17.342	ug/l	98
79) tert-butylbenzene	11.76	119	406917	17.599	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	419869	17.505	ug/l	100
81) sec-Butylbenzene	11.94	105	471927	17.160	ug/l	99
82) p-Isopropyltoluene	12.06	119	431133	17.372	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	229204	17.421	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	225035	17.177	ug/l	99
85) n-Butylbenzene	12.39	91	342250	16.402	ug/l	100
86) Hexachloroethane	12.59	117	75104	16.682	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	230681	17.262	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	34513	17.268	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	136604	15.994	ug/l	99
90) Hexachlorobutadiene	13.78	225	66662	16.420	ug/l	98
91) Naphthalene	13.83	128	435766	16.974	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	145850	16.836	ug/l	98

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

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