

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032719\
 Data File : VX008475.D
 Acq On : 27 Mar 2019 11:40
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 3/28/2019 9:37:20 AM

Quant Time: Mar 27 12:01:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 11:27:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	34740	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	210067	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	193082	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	87983	37.06	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	123.53%
60) 4-Bromofluorobenzene	11.13	95	102256	32.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	108.47%
63) Toluene-d8	8.71	98	266094	30.59	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	344058	184.582	ug/l 99
3) Chloromethane	1.32	50	454055	238.244	ug/l 97
4) Vinyl Chloride	1.40	62	453937	211.327	ug/l 98
5) Bromomethane	1.64	94	255415	65.593	ug/l 99
6) Chloroethane	1.70	64	259669	170.095	ug/l 95
7) Trichlorofluoromethane	1.92	101	493532	144.331	ug/l 98
8) Diethyl Ether	2.18	74	232623	175.410	ug/l 80
9) 1,1,2-Trichlorotrifluoroet	2.37	101	307517	162.613	ug/l 93
10) 1,1-Dichloroethene	2.37	96	319920	171.387	ug/l 87
11) Methyl Iodide	2.51	142	381811	135.310	ug/l 96
12) Methyl Acetate	3.20	43	259169	127.238	ug/l 91
13) Acrolein	2.29	56	377858	1184.166	ug/l 98
14) Acrylonitrile	3.15	53	1211961	1198.959	ug/l 99
15) Acetone	2.45	58	349643	882.069	ug/l 91
16) Carbon Disulfide	2.56	76	1014539	196.018	ug/l 98
17) Allyl chloride	2.72	41	736655	267.441	ug/l 88
18) Methylene Chloride	2.85	84	375429	186.834	ug/l 88
19) trans-1,2-Dichloroethene	3.16	96	341991	172.592	ug/l 87
20) Diisopropyl ether	3.86	45	1403954	243.767	ug/l # 93
21) 1,1-Dichloroethane	3.70	63	700915	206.063	ug/l 96
22) cis-1,2-Dichloroethene	4.59	96	395867	173.215	ug/l # 80
23) tert-Butyl Alcohol	3.07	59	494736	1205.592	ug/l 100
24) Methyl tert-Butyl Ether	3.20	73	1181343	196.989	ug/l 99
25) Chloroform	5.21	83	632280	175.233	ug/l 98
26) Cyclohexane	5.58	56	674432	224.199	ug/l # 84
29) 1,1-Dichloropropene	5.80	75	506800	169.862	ug/l 93
30) 2-Butanone	4.68	43	1843244	1072.587	ug/l 94
31) 2,2-Dichloropropane	4.58	77	516873	184.002	ug/l 94
32) 1,1,1-Trichloroethane	5.49	97	528589	150.572	ug/l 95
33) Carbon Tetrachloride	5.78	117	447773	138.885	ug/l 96
34) Benzene	6.14	78	1525959	171.699	ug/l # 96
35) Methacrylonitrile	5.04	41	381901	238.575	ug/l 91
36) 1,2-Dichloroethane	6.19	62	538113	164.271	ug/l 97
37) Trichloroethene	7.21	130	358415	137.163	ug/l 85
38) Methylcyclohexane	7.46	83	629622	168.378	ug/l 89
39) 1,2-Dichloropropane	7.51	63	429810	190.062	ug/l 100
40) Dibromomethane	7.66	93	252413	152.184	ug/l 89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	515250	163.715	ug/l	99
42) Vinyl Acetate	3.82	43	6291030	1089.150	ug/l #	94
43) Ethyl Acetate	4.84	43	678490	223.671	ug/l #	83
44) Isopropyl Acetate	6.45	43	1128951	236.486	ug/l	98
45) 1,4-Dioxane	7.74	88	207048	3448.267	ug/l #	83
46) Methyl methacrylate	7.77	41	575021	245.483	ug/l	86
47) n-amyl Acetate	10.90	43	1057626	258.406	ug/l	92
48) t-1,3-Dichloropropene	9.04	75	626942	198.963	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	667919	189.958	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	383339	160.881	ug/l	98
51) Ethyl methacrylate	9.18	69	746528	214.603	ug/l	91
52) 1,3-Dichloropropane	9.37	76	675818	176.852	ug/l	99
53) Dibromochloromethane	9.59	129	397798	148.103	ug/l	99
54) 1,2-Dibromoethane	9.67	107	400377	153.151	ug/l	97
55) 2-Chloroethyl vinyl ether	8.32	63	1891618	1080.832	ug/l	95
56) Bromoform	10.86	173	304418	143.558	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	3656961	1124.898	ug/l	96
59) 2-Hexanone	9.49	43	2823425	1097.923	ug/l	98
61) Tetrachloroethene	9.34	164	291585	112.187	ug/l	97
62) Toluene	8.79	91	1620045	158.071	ug/l	99
64) Chlorobenzene	10.14	112	984309	148.973	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	357109	141.513	ug/l	98
66) Ethyl Benzene	10.25	91	1846890	166.629	ug/l	96
67) m/p-Xylenes	10.36	106	1362470	309.284	ug/l	92
68) o-Xylene	10.70	106	663631	156.819	ug/l	91
69) Styrene	10.71	104	1194206	167.151	ug/l	96
70) Isopropylbenzene	11.02	105	1740049	156.281	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.27	83	652943	171.978	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	536288m	175.352	ug/l	
73) Bromobenzene	11.26	156	427433	138.752	ug/l	77
74) n-propylbenzene	11.36	91	2118064	170.666	ug/l	95
75) 2-Chlorotoluene	11.42	91	1244561	167.921	ug/l	90
76) 1,3,5-Trimethylbenzene	11.51	105	1523240	160.145	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	247684	228.605	ug/l	88
78) 4-Chlorotoluene	11.51	91	1468057	168.301	ug/l	91
79) tert-butylbenzene	12.06	119	1551783	155.097	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	1506860	159.428	ug/l	96
81) sec-Butylbenzene	11.94	105	1727339	159.215	ug/l	96
82) p-Isopropyltoluene	12.06	119	1551783	155.097	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	757528	141.678	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	758150	142.387	ug/l	96
85) n-Butylbenzene	12.38	91	1540710	179.021	ug/l	97
86) Hexachloroethane	12.60	117	281491	163.242	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	752713	142.748	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	149210	171.678	ug/l #	77
89) 1,2,4-Trichlorobenzene	13.65	180	532422	142.665	ug/l	98
90) Hexachlorobutadiene	13.78	225	250363	133.264	ug/l	98
91) Naphthalene	13.83	128	1765776	157.536	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	522471	138.482	ug/l	99

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

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