

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032719\
 Data File : VX008474.D
 Acq On : 27 Mar 2019 11:17
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 3/28/2019 9:37:15 AM

Quant Time: Mar 27 12:02:21 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	38609	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	225759	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	205344	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	95406	36.16	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	120.53%
60) 4-Bromofluorobenzene	11.13	95	107699	32.22	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	107.40%
63) Toluene-d8	8.71	98	287916	31.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	271126	130.879	ug/l 98
3) Chloromethane	1.32	50	344893	162.831	ug/l 97
4) Vinyl Chloride	1.41	62	355165	148.776	ug/l 98
5) Bromomethane	1.64	94	194692	44.989	ug/l 98
6) Chloroethane	1.71	64	208134	122.675	ug/l 98
7) Trichlorofluoromethane	1.92	101	389461	102.483	ug/l 99
8) Diethyl Ether	2.19	74	180762	122.645	ug/l 78
9) 1,1,2-Trichlorotrifluoroet	2.38	101	240818	114.582	ug/l 92
10) 1,1-Dichloroethene	2.37	96	248445	119.759	ug/l 83
11) Methyl Iodide	2.51	142	292077	93.137	ug/l 97
12) Methyl Acetate	3.20	43	201189	88.875	ug/l 92
13) Acrolein	2.29	56	310170	874.631	ug/l 97
14) Acrylonitrile	3.15	53	941966	838.479	ug/l 99
15) Acetone	2.45	58	280991	637.840	ug/l 91
16) Carbon Disulfide	2.57	76	778401	135.323	ug/l 99
17) Allyl chloride	2.73	41	568767	185.797	ug/l 89
18) Methylene Chloride	2.85	84	292614	131.028	ug/l 87
19) trans-1,2-Dichloroethene	3.16	96	265164	120.410	ug/l 89
20) Diisopropyl ether	3.86	45	1085292	169.555	ug/l # 95
21) 1,1-Dichloroethane	3.70	63	547503	144.831	ug/l 96
22) cis-1,2-Dichloroethene	4.59	96	306553	120.693	ug/l # 81
23) tert-Butyl Alcohol	3.07	59	382533	838.759	ug/l 100
24) Methyl tert-Butyl Ether	3.20	73	915438	137.352	ug/l 99
25) Chloroform	5.21	83	491104	122.467	ug/l 97
26) Cyclohexane	5.58	56	526510	157.487	ug/l # 83
29) 1,1-Dichloropropene	5.80	75	394858	123.144	ug/l 93
30) 2-Butanone	4.68	43	1441431	780.470	ug/l 94
31) 2,2-Dichloropropane	4.59	77	399084	132.195	ug/l 94
32) 1,1,1-Trichloroethane	5.49	97	408693	108.326	ug/l 95
33) Carbon Tetrachloride	5.79	117	344942	99.553	ug/l 98
34) Benzene	6.14	78	1187348	124.313	ug/l # 96
35) Methacrylonitrile	5.04	41	295867	171.982	ug/l 93
36) 1,2-Dichloroethane	6.19	62	417119	118.484	ug/l 97
37) Trichloroethene	7.21	130	275892	98.244	ug/l 81
38) Methylcyclohexane	7.46	83	491978	122.424	ug/l 89
39) 1,2-Dichloropropane	7.51	63	336488	138.453	ug/l 99
40) Dibromomethane	7.66	93	196142	110.038	ug/l 89

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

41) Bromodichloromethane	7.90	83	395795	117.018	ug/l	99
42) Vinyl Acetate	3.82	43	4899740	789.317	ug/l #	94
43) Ethyl Acetate	4.84	43	527289m	161.744	ug/l	
44) Isopropyl Acetate	6.45	43	860111	167.648	ug/l	98
45) 1,4-Dioxane	7.74	88	162692	2521.209	ug/l #	84
46) Methyl methacrylate	7.77	41	439920	174.753	ug/l	88
47) n-amyl Acetate	10.90	43	798734	181.587	ug/l	93
48) t-1,3-Dichloropropene	9.04	75	473000	139.675	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	513192	135.808	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	290457	113.427	ug/l	97
51) Ethyl methacrylate	9.18	69	565129	151.164	ug/l	92
52) 1,3-Dichloropropane	9.37	76	518709	126.304	ug/l	99
53) Dibromochloromethane	9.59	129	301714	104.522	ug/l	99
54) 1,2-Dibromoethane	9.67	107	302704	107.741	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	1572001	835.777	ug/l	95
56) Bromoform	10.85	173	229178	100.564	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	2821569	816.100	ug/l	96
59) 2-Hexanone	9.49	43	2186150	799.347	ug/l	97
61) Tetrachloroethene	9.34	164	225287	81.503	ug/l	98
62) Toluene	8.79	91	1247506	114.453	ug/l	100
64) Chlorobenzene	10.14	112	745666	106.116	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	269536	100.432	ug/l	98
66) Ethyl Benzene	10.25	91	1411309	119.727	ug/l	96
67) m/p-Xylenes	10.36	106	1039932	221.970	ug/l	91
68) o-Xylene	10.70	106	504035	111.993	ug/l	92
69) Styrene	10.71	104	901811	118.687	ug/l	96
70) Isopropylbenzene	11.02	105	1325639	111.952	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	496853	123.051	ug/l	97
72) 1,1,2,3-Trichloropropane	11.30	75	415575m	127.768	ug/l	
73) Bromobenzene	11.26	156	324622	99.085	ug/l	79
74) n-propylbenzene	11.36	91	1601147	121.311	ug/l	95
75) 2-Chlorotoluene	11.42	91	950667	120.608	ug/l	90
76) 1,3,5-Trimethylbenzene	11.51	105	1149276	113.613	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	184981	160.537	ug/l	88
78) 4-Chlorotoluene	11.51	91	1105957	119.218	ug/l	92
79) tert-butylbenzene	12.06	119	1181858	111.070	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	1148162	114.223	ug/l	95
81) sec-Butylbenzene	11.94	105	1307673	113.335	ug/l	96
82) p-Isopropyltoluene	12.06	119	1181858	111.070	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	577080	101.484	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	576357	101.781	ug/l	96
85) n-Butylbenzene	12.38	91	1156994	126.408	ug/l	97
86) Hexachloroethane	12.60	117	208552	113.721	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	569310	101.519	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	111705	120.850	ug/l #	78
89) 1,2,4-Trichlorobenzene	13.65	180	399908	100.759	ug/l	99
90) Hexachlorobutadiene	13.78	225	187953	94.070	ug/l	98
91) Naphthalene	13.83	128	1327365	111.351	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	390626	97.353	ug/l	99

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

