

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010980.D
 Acq On : 18 Jul 2019 23:55
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 9:56:40 AM

Quant Time: Jul 19 03:30:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:13:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	38025	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	217015	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	203745	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	81410	26.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	89.40%
60) 4-Bromofluorobenzene	11.13	95	105828	31.04	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.47%
63) Toluene-d8	8.71	98	262624	27.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	92.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	409891	191.089	ug/l 96
3) Chloromethane	1.32	50	335315	126.813	ug/l 99
4) Vinyl Chloride	1.41	62	363078	137.289	ug/l 97
5) Bromomethane	1.64	94	180594	105.820	ug/l 100
6) Chloroethane	1.70	64	199558	117.686	ug/l 94
7) Trichlorofluoromethane	1.92	101	593188	171.106	ug/l 96
8) Diethyl Ether	2.19	74	192327	127.854	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	327843	157.047	ug/l 99
10) 1,1-Dichloroethene	2.37	96	329200	156.879	ug/l 99
11) Methyl Iodide	2.51	142	504125	212.853	ug/l 97
12) Methyl Acetate	2.78	43	469661	124.383	ug/l 98
13) Acrolein	2.29	56	273848	534.112	ug/l 99
14) Acrylonitrile	3.15	53	906090	564.165	ug/l 98
15) Acetone	2.45	58	248228	543.546	ug/l 97
16) Carbon Disulfide	2.56	76	897055	160.716	ug/l 99
17) Allyl chloride	2.72	41	491559	106.369	ug/l 97
18) Methylene Chloride	2.85	84	358631	143.568	ug/l 97
19) trans-1,2-Dichloroethene	3.16	96	344057	153.747	ug/l 97
20) Diisopropyl ether	3.85	45	1019429	110.947	ug/l 96
21) 1,1-Dichloroethane	3.70	63	588151	128.601	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	400590	150.599	ug/l 97
23) tert-Butyl Alcohol	3.07	59	438350	623.076	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	1075636	135.807	ug/l 99
25) Chloroform	5.21	83	642875	149.792	ug/l 98
26) Cyclohexane	5.57	56	529906	125.029	ug/l # 97
29) 1,1-Dichloropropene	5.80	75	472509	149.654	ug/l 99
30) 2-Butanone	4.68	43	1280344	550.125	ug/l 99
31) 2,2-Dichloropropane	4.58	77	426006	127.976	ug/l 97
32) 1,1,1-Trichloroethane	5.49	97	595929	170.608	ug/l 98
33) Carbon Tetrachloride	5.79	117	532362	182.362	ug/l 97
34) Benzene	6.14	78	1389293	143.573	ug/l 97
35) Methacrylonitrile	5.04	41	274405	113.471	ug/l 98
36) 1,2-Dichloroethane	6.19	62	508316	145.785	ug/l 98
37) Trichloroethene	7.21	130	409834	169.005	ug/l 99
38) Methylcyclohexane	7.46	83	591637	150.861	ug/l 100
39) 1,2-Dichloropropane	7.51	63	350345	129.944	ug/l 98
40) Dibromomethane	7.66	93	263543	164.478	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	511040	160.585	ug/l	99
42) Vinyl Acetate	3.82	43	4269253	558.501	ug/l	100
43) Ethyl Acetate	4.84	43	489689	116.486	ug/l	100
44) Isopropyl Acetate	6.45	43	825234	119.785	ug/l	100
45) 1,4-Dioxane	7.74	88	197495	2763.211	ug/l	97
46) Methyl methacrylate	7.77	41	411089	120.457	ug/l	97
47) n-amyl Acetate	10.90	43	780676	125.959	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	563341	154.334	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	585673	145.794	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	384985	158.266	ug/l	97
51) Ethyl methacrylate	9.18	69	624785	143.998	ug/l	99
52) 1,3-Dichloropropane	9.37	76	609441	143.748	ug/l	99
53) Dibromochloromethane	9.59	129	462109	188.724	ug/l	99
54) 1,2-Dibromoethane	9.67	107	428595	170.009	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	1220446	550.345	ug/l	99
56) Bromoform	10.85	173	368984	197.932	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	2609030	555.044	ug/l	99
59) 2-Hexanone	9.49	43	2000123	544.764	ug/l	99
61) Tetrachloroethene	9.34	164	383015	163.132	ug/l	96
62) Toluene	8.79	91	1597075	146.960	ug/l	99
64) Chlorobenzene	10.13	112	1064161	160.425	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	414110	171.063	ug/l	100
66) Ethyl Benzene	10.25	91	1841837	151.843	ug/l	99
67) m/p-Xylenes	10.36	106	1409350	313.882	ug/l	98
68) o-Xylene	10.69	106	692195	157.052	ug/l	96
69) Styrene	10.71	104	1221257	159.703	ug/l	98
70) Isopropylbenzene	11.02	105	1884967	160.138	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	602050	142.494	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	494121m	137.410	ug/l	
73) Bromobenzene	11.26	156	506445	170.749	ug/l	98
74) n-propylbenzene	11.36	91	2132320	157.119	ug/l	99
75) 2-Chlorotoluene	11.42	91	1268504	156.247	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	1603256	160.419	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	201063	143.450	ug/l	88
78) 4-Chlorotoluene	11.51	91	1468770	158.796	ug/l	99
79) tert-butylbenzene	11.77	119	1574732	163.338	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	1613966	160.956	ug/l	99
81) sec-Butylbenzene	11.94	105	1852304	161.514	ug/l	100
82) p-Isopropyltoluene	12.06	119	1746376	166.764	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	911954	171.966	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	909038	171.477	ug/l	100
85) n-Butylbenzene	12.38	91	1517336	160.167	ug/l	99
86) Hexachloroethane	12.60	117	310828	179.992	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	864254	161.890	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	144386	149.301	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	636004	168.779	ug/l	99
90) Hexachlorobutadiene	13.78	225	295980	158.101	ug/l	98
91) Naphthalene	13.83	128	1934559	159.136	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	624632	163.902	ug/l	99

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

