

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012519\
 Data File : VX007219.D
 Acq On : 25 Jan 2019 10:17
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 1/28/2019 12:05:12 PM

Quant Time: Jan 28 05:50:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 25 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	85405	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	461073	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	411219	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	166097	25.59	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	85.30%
60) 4-Bromofluorobenzene	11.14	95	189846	27.77	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.57%
63) Toluene-d8	8.71	98	558243	30.41	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	354945	53.380	ug/l 99
3) Chloromethane	1.33	50	392639	56.912	ug/l 99
4) Vinyl Chloride	1.41	62	468711	66.458	ug/l 98
5) Bromomethane	1.64	94	475499	140.499	ug/l 97
6) Chloroethane	1.71	64	320046	79.040	ug/l 100
7) Trichlorofluoromethane	1.92	101	813507	90.549	ug/l 99
8) Diethyl Ether	2.19	74	314255	85.805	ug/l 85
9) 1,1,2-Trichlorotrifluoroet	2.38	101	478140	92.672	ug/l 97
10) 1,1-Dichloroethene	2.37	96	444322	90.919	ug/l 88
11) Methyl Iodide	2.51	142	746401	187.587	ug/l 99
12) Methyl Acetate	2.78	43	738090	74.899	ug/l 96
13) Acrolein	2.30	56	261229	286.912	ug/l 98
14) Acrylonitrile	3.15	53	1397281	346.972	ug/l 99
15) Acetone	2.45	58	406457	301.940	ug/l 99
16) Carbon Disulfide	2.57	76	1103764	77.006	ug/l 100
17) Allyl chloride	2.73	41	791674	72.850	ug/l 92
18) Methylene Chloride	2.85	84	487709	85.815	ug/l 93
19) trans-1,2-Dichloroethene	3.17	96	477195	91.397	ug/l 90
20) Diisopropyl ether	3.87	45	1434751	77.434	ug/l # 95
21) 1,1-Dichloroethane	3.70	63	792189	77.598	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	525937	91.064	ug/l 88
23) tert-Butyl Alcohol	3.09	59	580897	312.519	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	1562673	87.013	ug/l 98
25) Chloroform	5.22	83	839122	87.335	ug/l 97
26) Cyclohexane	5.57	56	689046	78.647	ug/l # 88
29) 1,1-Dichloropropene	5.80	75	616085	90.297	ug/l 96
30) 2-Butanone	4.70	43	1834745	330.754	ug/l 96
31) 2,2-Dichloropropane	4.59	77	633032	84.564	ug/l 96
32) 1,1,1-Trichloroethane	5.49	97	734481	93.648	ug/l 97
33) Carbon Tetrachloride	5.78	117	656632	95.328	ug/l 99
34) Benzene	6.14	78	1858796	89.778	ug/l 98
35) Methacrylonitrile	5.06	41	367876	71.362	ug/l 93
36) 1,2-Dichloroethane	6.20	62	639098	85.684	ug/l 99
37) Trichloroethene	7.21	130	543626	99.679	ug/l 95
38) Methylcyclohexane	7.46	83	768000	94.810	ug/l 90
39) 1,2-Dichloropropane	7.52	63	473329	85.801	ug/l 96
40) Dibromomethane	7.66	93	338886	94.780	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	636449	92.333	ug/l	97
42) Vinyl Acetate	3.82	43	6211895	387.068	ug/l	95
43) Ethyl Acetate	4.85	43	672040	73.443	ug/l	99
44) Isopropyl Acetate	6.46	43	1092027	79.970	ug/l	99
45) 1,4-Dioxane	7.76	88	253516	1575.807	ug/l	89
46) Methyl methacrylate	7.77	41	556381	78.533	ug/l	92
47) n-amyl Acetate	10.90	43	970734	77.051	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	715728	90.763	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	776229	90.813	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	506503	93.566	ug/l	99
51) Ethyl methacrylate	9.18	69	747860	87.051	ug/l	94
52) 1,3-Dichloropropane	9.37	76	806728	88.335	ug/l	100
53) Dibromochloromethane	9.59	129	561586	99.993	ug/l	100
54) 1,2-Dibromoethane	9.67	107	550879	97.649	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	2046893	451.531	ug/l	98
56) Bromoform	10.86	173	431717	92.045	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	3547053	384.168	ug/l	97
59) 2-Hexanone	9.50	43	2758552	362.632	ug/l	99
61) Tetrachloroethene	9.34	164	551124	110.129	ug/l	97
62) Toluene	8.79	91	2102550	97.288	ug/l	99
64) Chlorobenzene	10.14	112	1372817	98.362	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	512301	100.975	ug/l	98
66) Ethyl Benzene	10.25	91	2293927	97.226	ug/l	97
67) m/p-Xylenes	10.36	106	1816464	197.730	ug/l	92
68) o-Xylene	10.70	106	876435	98.972	ug/l	93
69) Styrene	10.71	104	1447606	97.217	ug/l	98
70) Isopropylbenzene	11.02	105	2344477	98.872	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.27	83	747140	84.831	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	692748m	86.336	ug/l	
73) Bromobenzene	11.26	156	635489	97.495	ug/l	94
74) n-propylbenzene	11.36	91	2647970	94.909	ug/l	96
75) 2-Chlorotoluene	11.42	91	1531980	90.032	ug/l	95
76) 1,3,5-Trimethylbenzene	11.51	105	1943955	95.014	ug/l	97
77) t-1,4-Dichloro-2-butene	11.07	75	239802	90.899	ug/l	96
78) 4-Chlorotoluene	11.51	91	1804084	91.215	ug/l	96
79) tert-butylbenzene	12.07	119	2129643	98.079	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	1967861	94.313	ug/l	98
81) sec-Butylbenzene	11.94	105	2344746	97.086	ug/l	98
82) p-Isopropyltoluene	12.07	119	2129643	98.079	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	1135845	94.235	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	1143065	93.450	ug/l	99
85) n-Butylbenzene	12.39	91	1886579	95.660	ug/l	98
86) Hexachloroethane	12.60	117	353135	98.734	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	1135716	92.692	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	163961	80.561	ug/l	85
89) 1,2,4-Trichlorobenzene	13.65	180	810744	88.702	ug/l	99
90) Hexachlorobutadiene	13.78	225	374097	82.905	ug/l	100
91) Naphthalene	13.83	128	2483179	87.374	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	796959	85.033	ug/l	99

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

