

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101520\
 Data File : VX018937.D
 Acq On : 15 Oct 2020 15:10
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

apatel
 10/16/2020 2:11:36 PM

Quant Time: Oct 15 15:33:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 15 14:34:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	51249	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	283334	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	249499	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	96562	24.88	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	82.93%
60) 4-Bromofluorobenzene	11.12	95	117390	27.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.33%
63) Toluene-d8	8.70	98	323751	29.79	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	389051	146.989	ug/l 98
3) Chloromethane	1.31	50	403366	139.592	ug/l 99
4) Vinyl Chloride	1.39	62	511554	165.598	ug/l 100
5) Bromomethane	1.62	94	242850	118.275	ug/l 99
6) Chloroethane	1.70	64	358293	187.661	ug/l 96
7) Trichlorofluoromethane	1.90	101	819236	158.818	ug/l 100
8) Diethyl Ether	2.17	74	333281	196.592	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.36	101	441460	164.879	ug/l 98
10) 1,1-Dichloroethene	2.35	96	478914	180.522	ug/l 100
11) Methyl Iodide	2.49	142	641624	216.096	ug/l 94
12) Methyl Acetate	2.75	43	477446	144.041	ug/l 94
13) Acrolein	2.28	56	486395	1506.596	ug/l 99
14) Acrylonitrile	3.12	53	1096087	727.170	ug/l 99
15) Acetone	2.42	58	324549	746.299	ug/l 100
16) Carbon Disulfide	2.54	76	1171823	157.059	ug/l 99
17) Allyl chloride	2.70	41	615896	137.399	ug/l 98
18) Methylene Chloride	2.83	84	465084	154.245	ug/l 98
19) trans-1,2-Dichloroethene	3.14	96	484655	167.415	ug/l 98
20) Diisopropyl ether	3.83	45	1164470	133.299	ug/l # 83
21) 1,1-Dichloroethane	3.67	63	789143	152.713	ug/l 100
22) cis-1,2-Dichloroethene	4.56	96	557406	174.253	ug/l 97
23) tert-Butyl Alcohol	3.03	59	572061	824.048	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	1325574	146.689	ug/l 99
25) Chloroform	5.18	83	837130	151.886	ug/l 95
26) Cyclohexane	5.54	56	626827	149.142	ug/l # 99
29) 1,1-Dichloropropene	5.77	75	634699	148.162	ug/l 99
30) 2-Butanone	4.64	43	1571796	684.061	ug/l 99
31) 2,2-Dichloropropane	4.55	77	740273	143.868	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	769241	139.674	ug/l 99
33) Carbon Tetrachloride	5.75	117	712575	139.453	ug/l 96
34) Benzene	6.11	78	1885285	153.961	ug/l 99
35) Methacrylonitrile	5.01	41	337249	138.959	ug/l 98
36) 1,2-Dichloroethane	6.17	62	623285	127.276	ug/l 99
37) Trichloroethene	7.19	130	555575	155.516	ug/l 97
38) Methylcyclohexane	7.44	83	721432	154.799	ug/l 98
39) 1,2-Dichloropropane	7.49	63	460722	142.899	ug/l 96
40) Dibromomethane	7.63	93	339412	145.072	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	688388	142.039	ug/l	98
42) Vinyl Acetate	3.79	43	5769481	677.328	ug/l	100
43) Ethyl Acetate	4.80	43	634830	138.724	ug/l	99
44) Isopropyl Acetate	6.42	43	1039422	139.432	ug/l #	100
45) 1,4-Dioxane	7.72	88	221119	3355.642	ug/l	97
46) Methyl methacrylate	7.75	41	487367	133.074	ug/l	99
47) n-amyl Acetate	10.88	43	891287	135.374	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	785419	148.535	ug/l	98
49) cis-1,3-Dichloropropene	8.41	75	830559	149.703	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	477431	144.813	ug/l	98
51) Ethyl methacrylate	9.16	69	756773	155.105	ug/l	98
52) 1,3-Dichloropropane	9.35	76	787117	143.978	ug/l	100
53) Dibromochloromethane	9.57	129	580339	141.469	ug/l	100
54) 1,2-Dibromoethane	9.65	107	525266	144.622	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	1981784	780.534	ug/l	99
56) Bromoform	10.84	173	471051	150.825	ug/l	100
58) 4-Methyl-2-Pentanone	8.62	43	3059307	731.884	ug/l	99
59) 2-Hexanone	9.48	43	2340492	733.944	ug/l	99
61) Tetrachloroethene	9.32	164	473994	154.362	ug/l	96
62) Toluene	8.77	91	2062962	163.906	ug/l	100
64) Chlorobenzene	10.12	112	1310297	161.693	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.20	131	511112	156.680	ug/l	99
66) Ethyl Benzene	10.24	91	2282948	162.674	ug/l	98
67) m/p-Xylenes	10.34	106	1808272	336.657	ug/l	100
68) o-Xylene	10.68	106	863080	168.964	ug/l	100
69) Styrene	10.70	104	1493497	168.824	ug/l	99
70) Isopropylbenzene	11.00	105	2252573	160.316	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	724474	160.775	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	653481m	151.311	ug/l	
73) Bromobenzene	11.24	156	605975	159.544	ug/l	98
74) n-propylbenzene	11.35	91	2573869	156.461	ug/l	99
75) 2-Chlorotoluene	11.40	91	1496764	151.687	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	1942573	159.807	ug/l	100
77) t-1,4-Dichloro-2-butene	11.06	75	291052	168.137	ug/l	100
78) 4-Chlorotoluene	11.49	91	1818882	154.929	ug/l	100
79) tert-butylbenzene	11.76	119	1949050	164.982	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	1933062	161.068	ug/l	100
81) sec-Butylbenzene	11.93	105	2239123	162.551	ug/l	99
82) p-Isopropyltoluene	12.05	119	2088533	162.496	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	1077638	159.892	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	1092752	162.093	ug/l	100
85) n-Butylbenzene	12.37	91	1920871	169.342	ug/l	99
86) Hexachloroethane	12.58	117	366723	148.721	ug/l	94
87) 1,2-Dichlorobenzene	12.38	146	1070491	168.257	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	176598	153.087	ug/l	99
89) 1,2,4-Trichlorobenzene	13.63	180	812166	185.931	ug/l	99
90) Hexachlorobutadiene	13.77	225	331161	181.490	ug/l	96
91) Naphthalene	13.82	128	2533729	183.578	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	772985	179.039	ug/l	98

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

