

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022018\
 Data File : VX000107.D
 Acq On : 20 Feb 2018 14:17
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

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 2/22/2018 4:04:27 PM

Quant Time: Feb 21 06:07:09 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X022018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 21 05:38:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	17597	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	106053	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	104194	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	40053	29.66	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.87%
60) 4-Bromofluorobenzene	11.15	95	51513	30.38	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.27%
63) Toluene-d8	8.73	98	132558	29.65	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.83%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	53482	50.12	ug/l	97
3) Chloromethane	1.33	50	51574	46.58	ug/l	97
4) Vinyl Chloride	1.40	62	62645	48.19	ug/l	98
5) Bromomethane	1.64	94	56893	48.55	ug/l	98
6) Chloroethane	1.72	64	39223	47.93	ug/l	94
7) Trichlorofluoromethane	1.93	101	108131	48.68	ug/l	99
8) Diethyl Ether	2.20	74	37544	46.21	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	59592	48.51	ug/l	100
10) 1,1-Dichloroethene	2.38	96	56364	47.80	ug/l	95
11) Methyl Iodide	2.51	142	63286	66.80	ug/l	94
12) Methyl Acetate	2.79	43	103235	49.12	ug/l	99
13) Acrolein	2.30	56	56727	236.46	ug/l	100
14) Acrylonitrile	3.16	53	223422	244.77	ug/l	98
15) Acetone	2.45	58	73554	236.39	ug/l	98
16) Carbon Disulfide	2.57	76	160876	48.49	ug/l	100
17) Allyl chloride	2.73	41	98012	49.48	ug/l	97
18) Methylene Chloride	2.86	84	59809	47.58	ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	60730	47.96	ug/l	97
20) Diisopropyl ether	3.89	45	153882	50.85	ug/l	97
21) 1,1-Dichloroethane	3.70	63	100611	46.74	ug/l	98
22) cis-1,2-Dichloroethene	4.61	96	57732	49.04	ug/l	98
23) tert-Butyl Alcohol	3.09	59	130330	245.47	ug/l #	100
24) Methyl tert-Butyl Ether	3.22	73	196335	48.72	ug/l	99
25) Chloroform	5.23	83	103188	50.62	ug/l	100
26) Cyclohexane	5.58	56	81461	50.74	ug/l #	100
29) 1,1-Dichloropropene	5.81	75	75779	49.57	ug/l	99
30) 2-Butanone	4.73	43	296506	242.78	ug/l	100
31) 2,2-Dichloropropane	4.59	77	81434	49.40	ug/l	99
32) 1,1,1-Trichloroethane	5.51	97	94260	50.69	ug/l	99
33) Carbon Tetrachloride	5.79	117	84914	51.71	ug/l	93
34) Benzene	6.15	78	220850	49.44	ug/l #	92
35) Methacrylonitrile	5.07	41	52642	48.35	ug/l	90
36) 1,2-Dichloroethane	6.21	62	81866	48.56	ug/l	99
37) Trichloroethene	7.22	130	64274	48.41	ug/l	96
38) Methylcyclohexane	7.47	83	91966	51.07	ug/l	99
39) 1,2-Dichloropropane	7.53	63	54756	48.51	ug/l	100
40) Dibromomethane	7.67	93	42862	50.52	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	81686	49.92	ug/l	98
42) Vinyl Acetate	3.84	43	726659	247.46	ug/l	99
43) Ethyl Acetate	4.88	43	102578	48.06	ug/l	99
44) Isopropyl Acetate	6.48	43	153755	50.44	ug/l	99
45) 1,4-Dioxane	7.77	88	40412	1070.71	ug/l	96
46) Methyl methacrylate	7.79	41	74836	50.29	ug/l	98
47) n-amyl Acetate	10.91	43	139125	53.11	ug/l	98
48) t-1,3-Dichloropropene	8.45	75	94952	49.42	ug/l	98
49) cis-1,3-Dichloropropene	9.05	75	94490	50.91	ug/l	98
50) 1,1,2-Trichloroethane	9.23	97	63506	51.89	ug/l	98
51) Ethyl methacrylate	9.20	69	97801	52.45	ug/l	98
52) 1,3-Dichloropropane	9.38	76	101026	49.66	ug/l	99
53) Dibromochloromethane	9.59	129	75598	54.51	ug/l	99
54) 1,2-Dibromoethane	9.68	107	71295	51.12	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	160080	168.38	ug/l	100
56) Bromoform	10.87	173	62872	57.08	ug/l	98
58) 4-Methyl-2-Pentanone	8.67	43	565108	240.73	ug/l	98
59) 2-Hexanone	9.51	43	486825	243.53	ug/l	99
61) Tetrachloroethene	9.34	164	63717	50.29	ug/l	99
62) Toluene	8.79	91	269944	49.29	ug/l	100
64) Chlorobenzene	10.15	112	180067	49.30	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	67603	51.92	ug/l	98
66) Ethyl Benzene	10.26	91	307262	48.85	ug/l	99
67) m/p-Xylenes	10.37	106	246859	102.31	ug/l	97
68) o-Xylene	10.71	106	119800	50.30	ug/l	99
69) Styrene	10.72	104	198958	50.56	ug/l	99
70) Isopropylbenzene	11.02	105	321962	50.08	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	109373	49.32	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	99287m	48.74	ug/l	
73) Bromobenzene	11.26	156	87178	52.47	ug/l	96
74) n-propylbenzene	11.37	91	375623	49.87	ug/l	99
75) 2-Chlorotoluene	11.43	91	215930	49.07	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	274596	50.55	ug/l	68
77) t-1,4-Dichloro-2-butene	11.09	75	37595	52.88	ug/l	94
78) 4-Chlorotoluene	11.52	91	258972	49.92	ug/l	98
79) tert-butylbenzene	11.78	119	276088m	50.58	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	281577	50.04	ug/l	100
81) sec-Butylbenzene	11.96	105	338171	50.06	ug/l	100
82) p-Isopropyltoluene	12.07	119	306476	50.74	ug/l	100
83) 1,3-Dichlorobenzene	12.04	146	163168	51.06	ug/l	98
84) 1,4-Dichlorobenzene	12.11	146	169034	51.38	ug/l	99
85) n-Butylbenzene	12.40	91	279113	49.43	ug/l	98
86) Hexachloroethane	12.60	117	52559	53.13	ug/l	95
87) 1,2-Dichlorobenzene	12.40	146	161988	50.52	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	31521	51.10	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	120833	52.63	ug/l	100
90) Hexachlorobutadiene	13.79	225	52398	54.80	ug/l	97
91) Naphthalene	13.84	128	415668	50.50	ug/l	99
92) 1,2,3-Trichlorobenzene	14.03	180	121306	51.90	ug/l	99

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

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