

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX043018\
 Data File : VX001267.D
 Acq On : 30 Apr 2018 21:46
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/2/2018 11:08:11 AM

Quant Time: May 01 09:30:20 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 01 09:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	34107	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	194241	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	181360	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	75875	30.84	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.80%
60) 4-Bromofluorobenzene	11.14	95	87846	28.91	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.37%
63) Toluene-d8	8.72	98	234874	30.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.67%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	45787	20.48	ug/l	99
3) Chloromethane	1.32	50	42816	20.51	ug/l	98
4) Vinyl Chloride	1.40	62	44747	20.44	ug/l	98
5) Bromomethane	1.65	94	33777	20.43	ug/l	98
6) Chloroethane	1.73	64	27637	20.63	ug/l	99
7) Trichlorofluoromethane	1.93	101	76573	21.06	ug/l	99
8) Diethyl Ether	2.19	74	27202	21.54	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.39	101	41766	20.25	ug/l	94
10) 1,1-Dichloroethene	2.38	96	38990	20.87	ug/l	90
11) Methyl Iodide	2.52	142	40192	17.69	ug/l	93
12) Methyl Acetate	2.78	43	56402	22.96	ug/l	99
13) Acrolein	2.30	56	29138	99.47	ug/l	99
14) Acrylonitrile	3.15	53	111568	114.13	ug/l	99
15) Acetone	2.45	58	31054	102.09	ug/l	95
16) Carbon Disulfide	2.57	76	95409	19.20	ug/l	99
17) Allyl chloride	2.73	41	68697	20.72	ug/l	98
18) Methylene Chloride	2.86	84	42179	20.71	ug/l	99
19) trans-1,2-Dichloroethene	3.17	96	40944	20.33	ug/l	94
20) Diisopropyl ether	3.88	45	128620	19.71	ug/l	98
21) 1,1-Dichloroethane	3.70	63	69883	19.93	ug/l	100
22) cis-1,2-Dichloroethene	4.60	96	44681	19.86	ug/l	100
23) tert-Butyl Alcohol	3.07	59	51255	128.29	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	133960	20.91	ug/l	93
25) Chloroform	5.23	83	76025	19.92	ug/l	97
26) Cyclohexane	5.59	56	62504	19.61	ug/l #	94
29) 1,1-Dichloropropene	5.81	75	54775	19.03	ug/l	99
30) 2-Butanone	4.71	43	153431	104.04	ug/l	97
31) 2,2-Dichloropropane	4.59	77	53358	16.98	ug/l	98
32) 1,1,1-Trichloroethane	5.50	97	65555	18.83	ug/l	99
33) Carbon Tetrachloride	5.79	117	56750	18.08	ug/l	95
34) Benzene	6.15	78	163408	19.16	ug/l	96
35) Methacrylonitrile	5.07	41	32905	20.11	ug/l	92
36) 1,2-Dichloroethane	6.20	62	64064	19.57	ug/l	100
37) Trichloroethene	7.22	130	49651	19.20	ug/l	95
38) Methylcyclohexane	7.46	83	63198	18.66	ug/l	96
39) 1,2-Dichloropropane	7.52	63	41485	19.18	ug/l	98
40) Dibromomethane	7.67	93	29529	19.41	ug/l	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	52249	18.18	ug/l	98
42) Vinyl Acetate	3.83	43	546462	94.20	ug/l	98
43) Ethyl Acetate	4.87	43	59139	20.82	ug/l	97
44) Isopropyl Acetate	6.48	43	95299	19.72	ug/l	97
45) 1,4-Dioxane	7.76	88	19962	454.48	ug/l	96
46) Methyl methacrylate	7.78	41	49264	19.60	ug/l	91
47) n-amyl Acetate	10.90	43	83436	17.99	ug/l	100
48) t-1,3-Dichloropropene	8.44	75	60356	17.84	ug/l	96
49) cis-1,3-Dichloropropene	9.05	75	56256	17.36	ug/l	95
50) 1,1,2-Trichloroethane	9.22	97	43815	19.39	ug/l	97
51) Ethyl methacrylate	9.19	69	60939	18.93	ug/l	96
52) 1,3-Dichloropropane	9.38	76	72546	19.86	ug/l	99
53) Dibromochloromethane	9.59	129	43962	17.63	ug/l	97
54) 1,2-Dibromoethane	9.68	107	46759	19.34	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	157142	99.64	ug/l	99
56) Bromoform	10.86	173	35129	17.21	ug/l #	98
58) 4-Methyl-2-Pentanone	8.66	43	316685	105.21	ug/l	98
59) 2-Hexanone	9.50	43	237782	101.39	ug/l	97
61) Tetrachloroethene	9.34	164	56557	20.35	ug/l	92
62) Toluene	8.79	91	187129	19.20	ug/l	99
64) Chlorobenzene	10.15	112	125102	19.02	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	44525	18.54	ug/l	96
66) Ethyl Benzene	10.26	91	203980	18.75	ug/l	100
67) m/p-Xylenes	10.37	106	163529	37.84	ug/l	97
68) o-Xylene	10.70	106	79895	19.13	ug/l	99
69) Styrene	10.72	104	127758	18.38	ug/l	99
70) Isopropylbenzene	11.02	105	213457	18.82	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	64593	19.41	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	60642m	20.37	ug/l	
73) Bromobenzene	11.26	156	61723	18.72	ug/l	95
74) n-propylbenzene	11.37	91	240423	18.77	ug/l	99
75) 2-Chlorotoluene	11.43	91	145739	18.85	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	180850	18.71	ug/l	68
77) t-1,4-Dichloro-2-butene	11.08	75	14248	16.08	ug/l	77
78) 4-Chlorotoluene	11.52	91	169449	18.37	ug/l	99
79) tert-butylbenzene	12.07	119	199222	19.26	ug/l	94
80) 1,2,4-Trimethylbenzene	11.81	105	184849	18.79	ug/l	100
81) sec-Butylbenzene	11.95	105	215352	19.19	ug/l	99
82) p-Isopropyltoluene	12.07	119	199222	19.26	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	111130	18.49	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	112620	18.38	ug/l	98
85) n-Butylbenzene	12.40	91	164628	18.41	ug/l	98
86) Hexachloroethane	12.60	117	26602	16.83	ug/l	64
87) 1,2-Dichlorobenzene	12.40	146	112714	18.86	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	13340	19.19	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	86774	19.16	ug/l	98
90) Hexachlorobutadiene	13.79	225	46048	21.90	ug/l	96
91) Naphthalene	13.84	128	238873	20.33	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	88087	19.71	ug/l	96

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

