

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051818\
 Data File : VX001807.D
 Acq On : 18 May 2018 04:41
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 5/21/2018 2:40:33 PM

Quant Time: May 18 07:01:32 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 18 06:08:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	61349	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	262368	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	205400	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	119045	27.33	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	91.10%
60) 4-Bromofluorobenzene	11.14	95	91193	28.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.83%
63) Toluene-d8	8.72	98	312417	33.25	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	110.83%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	34038	12.94	ug/l	100
3) Chloromethane	1.32	50	63040	19.68	ug/l	100
4) Vinyl Chloride	1.40	62	55461	17.14	ug/l	100
5) Bromomethane	1.64	94	38754	23.75	ug/l	100
6) Chloroethane	1.73	64	40602	18.51	ug/l	100
7) Trichlorofluoromethane	1.93	101	62221	13.91	ug/l	100
8) Diethyl Ether	2.19	74	42933	20.32	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	34244	13.85	ug/l	100
10) 1,1-Dichloroethene	2.37	96	42156	15.96	ug/l	100
11) Methyl Iodide	2.51	142	65522	16.63	ug/l	100
12) Methyl Acetate	2.78	43	103830	21.54	ug/l	100
13) Acrolein	2.29	56	60343	108.08	ug/l	100
14) Acrylonitrile	3.15	53	196281	103.01	ug/l	100
15) Acetone	2.45	58	53840	104.78	ug/l	100
16) Carbon Disulfide	2.57	76	103132	15.66	ug/l	100
17) Allyl chloride	2.73	41	94020	18.13	ug/l	100
18) Methylene Chloride	2.86	84	64657	19.76	ug/l	100
19) trans-1,2-Dichloroethene	3.17	96	51920	17.70	ug/l	100
20) Diisopropyl ether	3.88	45	205485	20.47	ug/l	100
21) 1,1-Dichloroethane	3.70	63	105563	18.82	ug/l	100
22) cis-1,2-Dichloroethene	4.60	96	67385	19.77	ug/l	100
23) tert-Butyl Alcohol	3.08	59	80770	96.52	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	202767	20.07	ug/l	100
25) Chloroform	5.22	83	113213	19.38	ug/l	100
26) Cyclohexane	5.58	56	58210	14.92	ug/l #	100
29) 1,1-Dichloropropene	5.80	75	59016	18.62	ug/l	100
30) 2-Butanone	4.72	43	269408	120.06	ug/l	100
31) 2,2-Dichloropropane	4.59	77	36309	14.05	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	77998	19.24	ug/l	100
33) Carbon Tetrachloride	5.79	117	62369	17.74	ug/l	100
34) Benzene	6.15	78	237141	22.32	ug/l	100
35) Methacrylonitrile	5.07	41	56896	23.48	ug/l	100
36) 1,2-Dichloroethane	6.20	62	94380	22.49	ug/l	100
37) Trichloroethene	7.22	130	63670	20.77	ug/l	100
38) Methylcyclohexane	7.47	83	54887	16.60	ug/l	100
39) 1,2-Dichloropropane	7.52	63	62418	23.13	ug/l	100
40) Dibromomethane	7.67	93	45313	23.42	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	79441	22.07	ug/l	100
42) Vinyl Acetate	3.83	43	694233	98.72	ug/l	100
43) Ethyl Acetate	4.87	43	101791	23.82	ug/l	100
44) Isopropyl Acetate	6.48	43	148223	22.77	ug/l	100
45) 1,4-Dioxane	7.76	88	35369	463.18	ug/l	100
46) Methyl methacrylate	7.79	41	78658	22.54	ug/l	100
47) n-amyl Acetate	10.90	43	103329	19.40	ug/l	100
48) t-1,3-Dichloropropene	8.44	75	83498	21.18	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	72168	20.74	ug/l	100
50) 1,1,2-Trichloroethane	9.22	97	62454	22.23	ug/l	100
51) Ethyl methacrylate	9.19	69	83248	20.61	ug/l	100
52) 1,3-Dichloropropane	9.38	76	99404	21.58	ug/l	100
53) Dibromochloromethane	9.59	129	59751	20.61	ug/l	100
54) 1,2-Dibromoethane	9.68	107	63447	21.59	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	254387	115.83	ug/l	100
56) Bromoform	10.87	173	48317	20.24	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	521755	132.43	ug/l	100
59) 2-Hexanone	9.51	43	340502	119.36	ug/l	100
61) Tetrachloroethene	9.34	164	59626	20.38	ug/l	100
62) Toluene	8.79	91	231115	22.99	ug/l	100
64) Chlorobenzene	10.15	112	136574	21.21	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	55986	22.52	ug/l	100
66) Ethyl Benzene	10.26	91	195231	19.55	ug/l	100
67) m/p-Xylenes	10.37	106	156667	39.35	ug/l	100
68) o-Xylene	10.71	106	79717	20.05	ug/l	100
69) Styrene	10.72	104	135635	20.54	ug/l	100
70) Isopropylbenzene	11.02	105	190383	18.97	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	84368	23.45	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	82674m	23.72	ug/l	100
73) Bromobenzene	11.26	156	65591	20.88	ug/l	100
74) n-propylbenzene	11.37	91	200006	18.26	ug/l	100
75) 2-Chlorotoluene	11.43	91	135862	19.47	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	158077	18.74	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	16747	19.26	ug/l	100
78) 4-Chlorotoluene	11.52	91	149779	18.96	ug/l	100
79) tert-butylbenzene	12.07	119	156020	17.72	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	165220	19.13	ug/l	100
81) sec-Butylbenzene	11.95	105	171409	17.76	ug/l	100
82) p-Isopropyltoluene	12.07	119	156020	17.72	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	102722	19.16	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	102045	18.97	ug/l	100
85) n-Butylbenzene	12.40	91	111287	16.04	ug/l	100
86) Hexachloroethane	12.60	117	25142	17.73	ug/l	100
87) 1,2-Dichlorobenzene	12.40	146	111390	19.87	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	18079	21.86	ug/l	100
89) 1,2,4-Trichlorobenzene	13.65	180	70193	17.89	ug/l	100
90) Hexachlorobutadiene	13.79	225	34723	17.58	ug/l	100
91) Naphthalene	13.84	128	252037	20.78	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	80511	19.19	ug/l	100

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

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