

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051118\
 Data File : VX001619.D
 Acq On : 10 May 2018 23:29
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

apatel
 5/14/2018 3:57:28 PM

Quant Time: May 11 07:06:11 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 11 06:59:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	54186	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	274955	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	250743	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	121099	30.87	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.90%
60) 4-Bromofluorobenzene	11.14	95	119529	28.62	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.40%
63) Toluene-d8	8.72	98	338460	31.16	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.87%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	61853	18.23	ug/l	100
3) Chloromethane	1.32	50	65143	20.03	ug/l	100
4) Vinyl Chloride	1.40	62	68435	20.04	ug/l	100
5) Bromomethane	1.64	94	41007	16.41	ug/l	100
6) Chloroethane	1.73	64	45303	21.19	ug/l	100
7) Trichlorofluoromethane	1.93	101	98363	17.72	ug/l	100
8) Diethyl Ether	2.19	74	41459	20.62	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	55511	17.55	ug/l	100
10) 1,1-Dichloroethene	2.37	96	54662	18.75	ug/l	100
11) Methyl Iodide	2.51	142	74230	20.12	ug/l	100
12) Methyl Acetate	2.78	43	92373	22.97	ug/l	100
13) Acrolein	2.30	56	48477	103.90	ug/l	100
14) Acrylonitrile	3.15	53	183529	114.57	ug/l	100
15) Acetone	2.45	58	49438	102.66	ug/l	100
16) Carbon Disulfide	2.57	76	130596	17.12	ug/l	100
17) Allyl chloride	2.73	41	103349	19.80	ug/l	100
18) Methylene Chloride	2.86	84	64059	19.98	ug/l	100
19) trans-1,2-Dichloroethene	3.17	96	58962	18.79	ug/l	100
20) Diisopropyl ether	3.88	45	188622	18.54	ug/l	100
21) 1,1-Dichloroethane	3.70	63	111744	20.32	ug/l	100
22) cis-1,2-Dichloroethene	4.60	96	65421	18.74	ug/l	100
23) tert-Butyl Alcohol	3.08	59	80715	120.92	ug/l	100
24) Methyl tert-Butyl Ether	3.21	73	197783	19.64	ug/l	100
25) Chloroform	5.22	83	113684	19.05	ug/l	100
26) Cyclohexane	5.58	56	81670	16.83	ug/l #	100
29) 1,1-Dichloropropene	5.81	75	75189	18.70	ug/l	100
30) 2-Butanone	4.72	43	246258	114.26	ug/l	100
31) 2,2-Dichloropropane	4.59	77	64245	15.32	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	96210	19.64	ug/l	100
33) Carbon Tetrachloride	5.79	117	83788	18.96	ug/l	100
34) Benzene	6.15	78	239692	19.95	ug/l	100
35) Methacrylonitrile	5.07	41	52894	22.19	ug/l	100
36) 1,2-Dichloroethane	6.21	62	95963	20.60	ug/l	100
37) Trichloroethene	7.22	130	71076	19.56	ug/l	100
38) Methylcyclohexane	7.46	83	80456	17.30	ug/l	100
39) 1,2-Dichloropropane	7.52	63	59528	19.55	ug/l	100
40) Dibromomethane	7.67	93	43137	20.06	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	79312	19.54	ug/l	100
42) Vinyl Acetate	3.83	43	801568	98.29	ug/l	100
43) Ethyl Acetate	4.87	43	93356	22.41	ug/l	100
44) Isopropyl Acetate	6.48	43	138519	20.08	ug/l	100
45) 1,4-Dioxane	7.76	88	33030	492.27	ug/l	100
46) Methyl methacrylate	7.79	41	75934	20.96	ug/l	100
47) n-amyl Acetate	10.91	43	118096	18.15	ug/l	100
48) t-1,3-Dichloropropene	8.44	75	86358	18.27	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	74956	16.82	ug/l	100
50) 1,1,2-Trichloroethane	9.22	97	64836	20.28	ug/l	100
51) Ethyl methacrylate	9.19	69	87500	19.24	ug/l	100
52) 1,3-Dichloropropane	9.38	76	105482	20.36	ug/l	100
53) Dibromochloromethane	9.59	129	63905	18.28	ug/l	100
54) 1,2-Dibromoethane	9.68	107	68395	19.93	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	241737	106.69	ug/l	100
56) Bromoform	10.87	173	49937	17.42	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	487325	113.48	ug/l	100
59) 2-Hexanone	9.51	43	363946	109.50	ug/l	100
61) Tetrachloroethene	9.34	164	80395	21.01	ug/l	100
62) Toluene	8.79	91	260892	19.50	ug/l	100
64) Chlorobenzene	10.15	112	173256	19.23	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	64285	19.54	ug/l	100
66) Ethyl Benzene	10.26	91	271237	18.39	ug/l	100
67) m/p-Xylenes	10.37	106	218849	37.13	ug/l	100
68) o-Xylene	10.71	106	106518	18.72	ug/l	100
69) Styrene	10.72	104	175524	18.53	ug/l	100
70) Isopropylbenzene	11.02	105	281191	18.29	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	91123	19.75	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	89570m	21.53	ug/l	100
73) Bromobenzene	11.26	156	82678	18.41	ug/l	100
74) n-propylbenzene	11.37	91	309311	17.85	ug/l	100
75) 2-Chlorotoluene	11.43	91	193544	18.37	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	235421	17.97	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	20798	16.97	ug/l	100
78) 4-Chlorotoluene	11.52	91	218313	17.55	ug/l	100
79) tert-butylbenzene	12.07	119	249603	17.83	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	241647	18.17	ug/l	100
81) sec-Butylbenzene	11.95	105	272536	17.94	ug/l	100
82) p-Isopropyltoluene	12.07	119	249603	17.83	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	144348	17.75	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	144778	17.53	ug/l	100
85) n-Butylbenzene	12.40	91	190670	15.96	ug/l	100
86) Hexachloroethane	12.60	117	37514	17.41	ug/l	100
87) 1,2-Dichlorobenzene	12.40	146	149495	18.36	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	20661	21.00	ug/l	100
89) 1,2,4-Trichlorobenzene	13.65	180	102711	16.91	ug/l	100
90) Hexachlorobutadiene	13.79	225	55091	18.91	ug/l	100
91) Naphthalene	13.84	128	312230	19.31	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	110538	18.16	ug/l	100

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

