

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022018\
 Data File : VX000106.D
 Acq On : 20 Feb 2018 13:52
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

apatel
 2/22/2018 4:04:24 PM

Quant Time: Feb 21 06:05:27 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	15841	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	95528	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	90201	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.09	65	36464	30.00	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.00%
60) 4-Bromofluorobenzene	11.15	95	44039	30.00	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.00%
63) Toluene-d8	8.73	98	116103	30.00	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	19213	20.00	ug/l	100
3) Chloromethane	1.32	50	19936	20.00	ug/l	100
4) Vinyl Chloride	1.40	62	23406	20.00	ug/l	100
5) Bromomethane	1.65	94	21097	20.00	ug/l	100
6) Chloroethane	1.73	64	14733	20.00	ug/l	100
7) Trichlorofluoromethane	1.93	101	39994	20.00	ug/l	100
8) Diethyl Ether	2.20	74	14628	20.00	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	22118	20.00	ug/l	100
10) 1,1-Dichloroethene	2.38	96	21230	20.00	ug/l	100
11) Methyl Iodide	2.51	142	17057	20.00	ug/l	100
12) Methyl Acetate	2.79	43	37837	20.00	ug/l	100
13) Acrolein	2.30	56	21596	100.00	ug/l	100
14) Acrylonitrile	3.16	53	82170	100.00	ug/l	100
15) Acetone	2.45	58	28011	100.00	ug/l	100
16) Carbon Disulfide	2.57	76	59728	20.00	ug/l	100
17) Allyl chloride	2.73	41	35667	20.00	ug/l	100
18) Methylene Chloride	2.86	84	22631	20.00	ug/l	100
19) trans-1,2-Dichloroethene	3.17	96	22799	20.00	ug/l	100
20) Diisopropyl ether	3.89	45	54482	20.00	ug/l	100
21) 1,1-Dichloroethane	3.70	63	38759	20.00	ug/l	100
22) cis-1,2-Dichloroethene	4.61	96	21196	20.00	ug/l	100
23) tert-Butyl Alcohol	3.08	59	48027	100.48	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	72558	20.00	ug/l	100
25) Chloroform	5.23	83	36700	20.00	ug/l	100
26) Cyclohexane	5.59	56	28907	20.00	ug/l #	100
29) 1,1-Dichloropropene	5.81	75	27541	20.00	ug/l	100
30) 2-Butanone	4.72	43	110011	100.00	ug/l	100
31) 2,2-Dichloropropane	4.60	77	29699	20.00	ug/l	100
32) 1,1,1-Trichloroethane	5.51	97	33498	20.00	ug/l	100
33) Carbon Tetrachloride	5.79	117	29585	20.00	ug/l	100
34) Benzene	6.15	78	80480	20.00	ug/l	100
35) Methacrylonitrile	5.07	41	19614	20.00	ug/l	100
36) 1,2-Dichloroethane	6.21	62	30372	20.00	ug/l	100
37) Trichloroethene	7.22	130	23920	20.00	ug/l	100
38) Methylcyclohexane	7.47	83	32439	20.00	ug/l	100
39) 1,2-Dichloropropane	7.52	63	20335	20.00	ug/l	100
40) Dibromomethane	7.68	93	15283	20.00	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	29481	20.00	ug/l	100
42) Vinyl Acetate	3.84	43	264501	100.00	ug/l	100
43) Ethyl Acetate	4.88	43	38449	20.00	ug/l	100
44) Isopropyl Acetate	6.48	43	54916	20.00	ug/l	100
45) 1,4-Dioxane	7.77	88	13599	400.00	ug/l	100
46) Methyl methacrylate	7.79	41	26810	20.00	ug/l	100
47) n-amyl Acetate	10.91	43	47188	20.00	ug/l	100
48) t-1,3-Dichloropropene	8.45	75	34610	20.00	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	33436	20.00	ug/l	100
50) 1,1,2-Trichloroethane	9.23	97	22047	20.00	ug/l	100
51) Ethyl methacrylate	9.19	69	33591	20.00	ug/l	100
52) 1,3-Dichloropropane	9.38	76	36651	20.00	ug/l	100
53) Dibromochloromethane	9.59	129	24985	20.00	ug/l	100
54) 1,2-Dibromoethane	9.68	107	25124	20.00	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	85638	100.00	ug/l	100
56) Bromoform	10.87	173	19843	20.00	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	203221	100.00	ug/l	100
59) 2-Hexanone	9.51	43	173057	100.00	ug/l	100
61) Tetrachloroethene	9.34	164	21937	20.00	ug/l	100
62) Toluene	8.79	91	94824	20.00	ug/l	100
64) Chlorobenzene	10.15	112	63234	20.00	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	22545	20.00	ug/l	100
66) Ethyl Benzene	10.26	91	108909	20.00	ug/l	100
67) m/p-Xylenes	10.37	106	83554	40.00	ug/l	100
68) o-Xylene	10.71	106	41237	20.00	ug/l	100
69) Styrene	10.72	104	68134	20.00	ug/l	100
70) Isopropylbenzene	11.02	105	111316	20.00	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.28	83	38395	20.00	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	35271m	20.00	ug/l	
73) Bromobenzene	11.26	156	28766	20.00	ug/l	100
74) n-propylbenzene	11.37	91	130400	20.00	ug/l	100
75) 2-Chlorotoluene	11.43	91	76192	20.00	ug/l	100
76) 1,3,5-Trimethylbenzene	11.52	105	93975	19.98	ug/l	70
77) t-1,4-Dichloro-2-butene	11.09	75	12310	20.00	ug/l	100
78) 4-Chlorotoluene	11.52	91	89823	20.00	ug/l	100
79) tert-butylbenzene	11.78	119	94511m	20.00	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	97421	20.00	ug/l	100
81) sec-Butylbenzene	11.96	105	116965	20.00	ug/l	100
82) p-Isopropyltoluene	12.07	119	104569	20.00	ug/l	100
83) 1,3-Dichlorobenzene	12.04	146	55329	20.00	ug/l	100
84) 1,4-Dichlorobenzene	12.11	146	56963	20.00	ug/l	100
85) n-Butylbenzene	12.40	91	97767	20.00	ug/l	100
86) Hexachloroethane	12.60	117	17127	20.00	ug/l	100
87) 1,2-Dichlorobenzene	12.40	146	55515	20.00	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	10680	20.00	ug/l	100
89) 1,2,4-Trichlorobenzene	13.65	180	39750	20.00	ug/l	100
90) Hexachlorobutadiene	13.79	225	16555	20.00	ug/l	100
91) Naphthalene	13.84	128	142517	20.00	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	40472	20.00	ug/l	100

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

