

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051118\
 Data File : VX001634.D
 Acq On : 11 May 2018 11:13
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

apatel
 5/14/2018 3:58:08 PM

Quant Time: May 11 12:25:39 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 11 07:16:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	56419	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	300710	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	274497	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	122394	29.73	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.10%
60) 4-Bromofluorobenzene	11.14	95	130834	30.12	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.40%
63) Toluene-d8	8.72	98	363141	29.66	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.87%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	65377	23.78	ug/l	99
3) Chloromethane	1.32	50	60605	19.91	ug/l	99
4) Vinyl Chloride	1.40	62	64095	20.17	ug/l	99
5) Bromomethane	1.64	94	34271	21.81	ug/l	96
6) Chloroethane	1.73	64	43582	20.60	ug/l	98
7) Trichlorofluoromethane	1.93	101	104913	22.98	ug/l	99
8) Diethyl Ether	2.19	74	40364	20.39	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	62151	24.50	ug/l	97
10) 1,1-Dichloroethene	2.38	96	54856	21.01	ug/l	99
11) Methyl Iodide	2.51	142	38501	10.15	ug/l	98
12) Methyl Acetate	2.78	43	91163	20.53	ug/l	99
13) Acrolein	2.30	56	9160	18.20	ug/l	93
14) Acrylonitrile	3.15	53	163138	91.99	ug/l	100
15) Acetone	2.45	58	54398	114.17	ug/l	99
16) Carbon Disulfide	2.57	76	127682	19.74	ug/l	100
17) Allyl chloride	2.73	41	103664	20.81	ug/l	97
18) Methylene Chloride	2.86	84	63453	20.59	ug/l	93
19) trans-1,2-Dichloroethene	3.17	96	57581	20.32	ug/l	97
20) Diisopropyl ether	3.88	45	193675	20.81	ug/l	98
21) 1,1-Dichloroethane	3.70	63	105337	19.68	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	66866	20.92	ug/l	99
23) tert-Butyl Alcohol	3.08	59	67973	86.14	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	196758	20.74	ug/l	100
25) Chloroform	5.22	83	115816	21.00	ug/l	94
26) Cyclohexane	5.58	56	92907	23.80	ug/l	# 98
29) 1,1-Dichloropropene	5.81	75	79650	21.08	ug/l	99
30) 2-Butanone	4.71	43	235121	94.32	ug/l	100
31) 2,2-Dichloropropane	4.59	77	91912	28.30	ug/l	96
32) 1,1,1-Trichloroethane	5.50	97	102307	21.29	ug/l	99
33) Carbon Tetrachloride	5.79	117	89993	21.27	ug/l	99
34) Benzene	6.15	78	241255	19.97	ug/l	98
35) Methacrylonitrile	5.07	41	50224	18.58	ug/l	97
36) 1,2-Dichloroethane	6.20	62	96812	20.26	ug/l	99
37) Trichloroethene	7.22	130	74153	20.83	ug/l	100
38) Methylcyclohexane	7.47	83	97063	24.03	ug/l	98
39) 1,2-Dichloropropane	7.52	63	61245	20.22	ug/l	99
40) Dibromomethane	7.66	93	43123	19.87	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	81175	19.88	ug/l	100
42) Vinyl Acetate	3.83	43	803622	97.74	ug/l	100
43) Ethyl Acetate	4.87	43	87955	18.51	ug/l	97
44) Isopropyl Acetate	6.48	43	136090	18.71	ug/l	99
45) 1,4-Dioxane	7.76	88	28108	329.47	ug/l	97
46) Methyl methacrylate	7.79	41	74060	18.85	ug/l	99
47) n-amyl Acetate	10.91	43	119095	19.17	ug/l	99
48) t-1,3-Dichloropropene	8.44	75	92958	20.63	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	82127	20.63	ug/l	100
50) 1,1,2-Trichloroethane	9.22	97	64797	20.17	ug/l	97
51) Ethyl methacrylate	9.19	69	89206	19.26	ug/l	99
52) 1,3-Dichloropropane	9.38	76	105474	19.92	ug/l	99
53) Dibromochloromethane	9.59	129	65501	19.63	ug/l	98
54) 1,2-Dibromoethane	9.68	107	66677	19.67	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	232106	94.24	ug/l	100
56) Bromoform	10.87	173	50830	18.63	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	456797	92.52	ug/l	100
59) 2-Hexanone	9.51	43	342588	92.61	ug/l	100
61) Tetrachloroethene	9.34	164	86252	21.60	ug/l	99
62) Toluene	8.79	91	272813	20.66	ug/l	99
64) Chlorobenzene	10.15	112	181405	20.91	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	65686	20.04	ug/l	99
66) Ethyl Benzene	10.26	91	299439	21.85	ug/l	97
67) m/p-Xylenes	10.37	106	240426	43.94	ug/l	97
68) o-Xylene	10.71	106	114853	21.22	ug/l	100
69) Styrene	10.72	104	186578	20.89	ug/l	100
70) Isopropylbenzene	11.02	105	313399	22.47	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	89202	19.07	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	86980m	19.19	ug/l	
73) Bromobenzene	11.26	156	87152	20.62	ug/l	100
74) n-propylbenzene	11.37	91	350889	22.86	ug/l	99
75) 2-Chlorotoluene	11.43	91	210621	21.87	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	263445	22.45	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	22325	19.15	ug/l	95
78) 4-Chlorotoluene	11.52	91	243925	22.28	ug/l	99
79) tert-butylbenzene	12.07	119	292785	23.58	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	270243	22.55	ug/l	100
81) sec-Butylbenzene	11.95	105	321550	23.66	ug/l	100
82) p-Isopropyltoluene	12.07	119	292785	23.58	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	158176	21.46	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	159558	21.54	ug/l	99
85) n-Butylbenzene	12.40	91	236516	23.95	ug/l	100
86) Hexachloroethane	12.60	117	42228	21.43	ug/l	97
87) 1,2-Dichlorobenzene	12.40	146	161232	21.10	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	19966	18.32	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	118599	21.85	ug/l	100
90) Hexachlorobutadiene	13.79	225	65472	23.57	ug/l	97
91) Naphthalene	13.84	128	322452	19.83	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	122219	21.29	ug/l	100

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

