

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100218\
 Data File : VX004920.D
 Acq On : 02 Oct 2018 15:39
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 4:23:29 PM

Quant Time: Oct 03 08:24:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X100218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 03 04:49:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	50220	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	266638	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	250177	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	113153	29.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.83%
60) 4-Bromofluorobenzene	11.14	95	121651	29.25	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.50%
63) Toluene-d8	8.72	98	340689	30.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	75798	19.386	ug/l 96
3) Chloromethane	1.32	50	81251	20.029	ug/l 98
4) Vinyl Chloride	1.40	62	79019	19.054	ug/l 99
5) Bromomethane	1.64	94	38282	19.236	ug/l 98
6) Chloroethane	1.72	64	45996	19.318	ug/l 99
7) Trichlorofluoromethane	1.93	101	101753	19.261	ug/l 99
8) Diethyl Ether	2.19	74	41125	19.096	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	56485	18.618	ug/l 99
10) 1,1-Dichloroethene	2.37	96	52392	18.232	ug/l 98
11) Methyl Iodide	2.51	142	38022	21.361	ug/l 98
12) Methyl Acetate	2.78	43	119856	20.684	ug/l 99
13) Acrolein	2.29	56	47069	87.916	ug/l 100
14) Acrylonitrile	3.15	53	231987	97.967	ug/l 100
15) Acetone	2.45	58	72252	91.277	ug/l 97
16) Carbon Disulfide	2.57	76	155394	18.437	ug/l 99
17) Allyl chloride	2.73	41	122328	19.143	ug/l 97
18) Methylene Chloride	2.85	84	65016	19.455	ug/l 99
19) trans-1,2-Dichloroethene	3.16	96	57142	18.612	ug/l 98
20) Diisopropyl ether	3.87	45	207283	19.025	ug/l 96
21) 1,1-Dichloroethane	3.70	63	118192	19.689	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	63672	18.749	ug/l 99
23) tert-Butyl Alcohol	3.07	59	108730	99.479	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	204834	19.396	ug/l 100
25) Chloroform	5.21	83	107810	19.082	ug/l 100
26) Cyclohexane	5.57	56	94080	18.262	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	76583	19.409	ug/l 99
30) 2-Butanone	4.70	43	326695	101.840	ug/l 99
31) 2,2-Dichloropropane	4.58	77	86439	19.967	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	90926	20.047	ug/l 99
33) Carbon Tetrachloride	5.78	117	76814	19.284	ug/l 98
34) Benzene	6.14	78	241573	20.176	ug/l 98
35) Methacrylonitrile	5.06	41	62119	20.837	ug/l 97
36) 1,2-Dichloroethane	6.20	62	85342	19.785	ug/l 99
37) Trichloroethene	7.21	130	63020	19.982	ug/l 99
38) Methylcyclohexane	7.46	83	86676	18.503	ug/l 99
39) 1,2-Dichloropropane	7.52	63	65566	20.552	ug/l 98
40) Dibromomethane	7.66	93	42720	20.660	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	79683	19.990	ug/l	98
42) Vinyl Acetate	3.82	43	977283	105.301	ug/l	100
43) Ethyl Acetate	4.86	43	108132	20.434	ug/l	100
44) Isopropyl Acetate	6.46	43	160662	20.345	ug/l	100
45) 1,4-Dioxane	7.76	88	39449	424.015	ug/l	99
46) Methyl methacrylate	7.78	41	83633	20.413	ug/l	97
47) n-amyl Acetate	10.90	43	138519	19.012	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	88970	19.510	ug/l	98
49) cis-1,3-Dichloropropene	8.44	75	98391	19.905	ug/l	98
50) 1,1,2-Trichloroethane	9.22	97	65192	20.825	ug/l	98
51) Ethyl methacrylate	9.18	69	97258	19.576	ug/l	99
52) 1,3-Dichloropropane	9.37	76	107190	20.296	ug/l	100
53) Dibromochloromethane	9.59	129	63548	19.566	ug/l	99
54) 1,2-Dibromoethane	9.67	107	66245	20.305	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	273862	104.465	ug/l	99
56) Bromoform	10.86	173	51604	19.025	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	580279	103.304	ug/l	99
59) 2-Hexanone	9.50	43	460631	99.532	ug/l	100
61) Tetrachloroethene	9.34	164	61584	20.228	ug/l	96
62) Toluene	8.79	91	263146	20.014	ug/l	99
64) Chlorobenzene	10.14	112	167132	19.683	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	60995	19.761	ug/l	100
66) Ethyl Benzene	10.26	91	277155	19.309	ug/l	100
67) m/p-Xylenes	10.36	106	216769	38.785	ug/l	95
68) o-Xylene	10.70	106	103783	19.264	ug/l	100
69) Styrene	10.71	104	175118	19.331	ug/l	99
70) Isopropylbenzene	11.02	105	279887	19.401	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	103664	19.347	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	96468m	19.762	ug/l	
73) Bromobenzene	11.26	156	76091	19.188	ug/l	98
74) n-propylbenzene	11.36	91	324567	19.122	ug/l	99
75) 2-Chlorotoluene	11.42	91	201378	19.453	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	237594	19.088	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	28949	18.037	ug/l	95
78) 4-Chlorotoluene	11.51	91	229416	19.066	ug/l	99
79) tert-butylbenzene	12.07	119	249997	18.925	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	246148	19.391	ug/l	100
81) sec-Butylbenzene	11.94	105	279925	19.051	ug/l	99
82) p-Isopropyltoluene	12.07	119	249997	18.925	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	139012	18.957	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	140426	18.870	ug/l	99
85) n-Butylbenzene	12.39	91	219604	18.303	ug/l	99
86) Hexachloroethane	12.60	117	39228	18.028	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	141922	19.039	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.00	75	23975	19.363	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	102448	18.424	ug/l	99
90) Hexachlorobutadiene	13.79	225	50225	18.295	ug/l	100
91) Naphthalene	13.83	128	328919	19.023	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	105401	18.485	ug/l	99

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

