

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031519\
 Data File : VX008102.D
 Acq On : 15 Mar 2019 12:20
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 3/16/2019 10:32:57 AM

Quant Time: Mar 15 14:36:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 12:01:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	43959	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	232951	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	205911	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	80124	27.73	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	92.43%
60) 4-Bromofluorobenzene	11.13	95	97348	29.62	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.73%
63) Toluene-d8	8.71	98	278340	29.54	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	48101	18.432	ug/l 100
3) Chloromethane	1.33	50	43019	14.824	ug/l 98
4) Vinyl Chloride	1.41	62	44542	15.495	ug/l 99
5) Bromomethane	1.64	94	28193	19.673	ug/l 95
6) Chloroethane	1.73	64	27549	16.410	ug/l 96
7) Trichlorofluoromethane	1.93	101	64131	17.916	ug/l 100
8) Diethyl Ether	2.19	74	32723	17.751	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	53219	19.775	ug/l 94
10) 1,1-Dichloroethene	2.38	96	48493	19.011	ug/l 96
11) Methyl Iodide	2.51	142	76528	19.165	ug/l 91
12) Methyl Acetate	2.78	43	62106	15.395	ug/l 98
13) Acrolein	2.30	56	36191	76.467	ug/l 96
14) Acrylonitrile	3.15	53	142530	83.229	ug/l 99
15) Acetone	2.45	58	47517	76.853	ug/l 95
16) Carbon Disulfide	2.57	76	137394	17.168	ug/l 100
17) Allyl chloride	2.73	41	81253	15.537	ug/l 94
18) Methylene Chloride	2.86	84	52104	17.930	ug/l 93
19) trans-1,2-Dichloroethene	3.17	96	52217	19.347	ug/l 96
20) Diisopropyl ether	3.87	45	165252	17.273	ug/l 92
21) 1,1-Dichloroethane	3.70	63	95738	18.400	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	59770	19.198	ug/l 97
23) tert-Butyl Alcohol	3.07	59	60295	87.273	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	158427	18.064	ug/l 93
25) Chloroform	5.21	83	94197	19.180	ug/l 97
26) Cyclohexane	5.57	56	87215	18.139	ug/l # 96
29) 1,1-Dichloropropene	5.80	75	71451	19.344	ug/l 98
30) 2-Butanone	4.70	43	213578	85.733	ug/l 99
31) 2,2-Dichloropropane	4.59	77	69749	20.445	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	79784	19.976	ug/l 99
33) Carbon Tetrachloride	5.78	117	70807	19.987	ug/l 99
34) Benzene	6.14	78	217508	19.216	ug/l 99
35) Methacrylonitrile	5.06	41	42349	17.445	ug/l 98
36) 1,2-Dichloroethane	6.20	62	70605	19.172	ug/l 98
37) Trichloroethene	7.21	130	63767	20.793	ug/l 97
38) Methylcyclohexane	7.46	83	92998	19.803	ug/l 98
39) 1,2-Dichloropropane	7.52	63	55527	18.810	ug/l 99
40) Dibromomethane	7.66	93	36425	19.453	ug/l 86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	66559	18.805	ug/l	96
42) Vinyl Acetate	3.82	43	710674	88.128	ug/l	99
43) Ethyl Acetate	4.85	43	75385m	17.373	ug/l	
44) Isopropyl Acetate	6.46	43	114919	17.357	ug/l	97
45) 1,4-Dioxane	7.75	88	27723	400.212	ug/l	97
46) Methyl methacrylate	7.77	41	59833	17.183	ug/l	93
47) n-amyl Acetate	10.90	43	95849	16.801	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	70882	18.492	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	82164	18.930	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	56121	19.663	ug/l	96
51) Ethyl methacrylate	9.18	69	80403	18.575	ug/l	95
52) 1,3-Dichloropropane	9.37	76	90720	19.237	ug/l	99
53) Dibromochloromethane	9.58	129	57729	19.663	ug/l	100
54) 1,2-Dibromoethane	9.67	107	59668	19.997	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	177825	88.329	ug/l	100
56) Bromoform	10.85	173	45603	19.474	ug/l #	96
58) 4-Methyl-2-Pentanone	8.65	43	382462	90.216	ug/l	97
59) 2-Hexanone	9.49	43	297220	88.816	ug/l	96
61) Tetrachloroethene	9.34	164	68046	22.654	ug/l	95
62) Toluene	8.78	91	234889	19.536	ug/l	99
64) Chlorobenzene	10.14	112	154465	20.157	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	56377	20.548	ug/l	99
66) Ethyl Benzene	10.25	91	253791	19.651	ug/l	97
67) m/p-Xylenes	10.36	106	199348	40.255	ug/l	99
68) o-Xylene	10.69	106	96218	20.009	ug/l	100
69) Styrene	10.71	104	156317	19.729	ug/l	99
70) Isopropylbenzene	11.02	105	262445	20.425	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	81694	19.251	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	79689m	19.922	ug/l	
73) Bromobenzene	11.26	156	71542	20.943	ug/l	99
74) n-propylbenzene	11.36	91	287662	19.847	ug/l	100
75) 2-Chlorotoluene	11.42	91	172965	19.910	ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	220208	20.679	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	22997	18.607	ug/l	93
78) 4-Chlorotoluene	11.51	91	195982	19.953	ug/l	99
79) tert-butylbenzene	12.06	119	239871	20.990	ug/l	97
80) 1,2,4-Trimethylbenzene	11.80	105	224397	20.762	ug/l	98
81) sec-Butylbenzene	11.94	105	259910	20.305	ug/l	100
82) p-Isopropyltoluene	12.06	119	239871	20.990	ug/l	97
83) 1,3-Dichlorobenzene	12.02	146	128742	21.168	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	125826	20.678	ug/l	98
85) n-Butylbenzene	12.39	91	192457	19.692	ug/l	99
86) Hexachloroethane	12.60	117	36707	19.714	ug/l	76
87) 1,2-Dichlorobenzene	12.39	146	125634	20.902	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	15940	18.389	ug/l	87
89) 1,2,4-Trichlorobenzene	13.65	180	90421	20.932	ug/l	99
90) Hexachlorobutadiene	13.78	225	50715	21.287	ug/l	98
91) Naphthalene	13.83	128	252330	20.378	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	91577	21.328	ug/l	98

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

