

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101619\
 Data File : VX013089.D
 Acq On : 16 Oct 2019 11:43
 Operator : JC/SP
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 4:52:02 PM

Quant Time: Oct 17 02:33:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 17 02:18:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	27911	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	166280	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	146876	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	65879	33.85	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	112.83%
60) 4-Bromofluorobenzene	11.14	95	80663	32.76	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	109.20%
63) Toluene-d8	8.71	98	201126	30.87	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	203203	111.288	ug/l 100
3) Chloromethane	1.32	50	191314	117.013	ug/l 99
4) Vinyl Chloride	1.40	62	200853	119.094	ug/l 97
5) Bromomethane	1.62	94	82720	90.313	ug/l 100
6) Chloroethane	1.70	64	117506	114.500	ug/l 99
7) Trichlorofluoromethane	1.91	101	288675	104.705	ug/l 98
8) Diethyl Ether	2.18	74	106900	114.797	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	181242	116.252	ug/l 98
10) 1,1-Dichloroethene	2.36	96	181744	116.304	ug/l 100
11) Methyl Iodide	2.50	142	247929	119.851	ug/l 99
12) Methyl Acetate	2.76	43	253007	115.833	ug/l 98
13) Acrolein	2.28	56	191829	706.373	ug/l 97
14) Acrylonitrile	3.13	53	532914	613.454	ug/l 100
15) Acetone	2.44	58	182563	685.943	ug/l 94
16) Carbon Disulfide	2.56	76	495668	121.717	ug/l 98
17) Allyl chloride	2.72	41	310641	131.831	ug/l 95
18) Methylene Chloride	2.84	84	201230	114.654	ug/l 95
19) trans-1,2-Dichloroethene	3.15	96	193240	116.472	ug/l 95
20) Diisopropyl ether	3.84	45	584600	119.369	ug/l 99
21) 1,1-Dichloroethane	3.69	63	339910	120.953	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	218999	114.806	ug/l 99
23) tert-Butyl Alcohol	3.05	59	264636	584.739	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	615612	120.249	ug/l 99
25) Chloroform	5.20	83	346697	113.731	ug/l 99
26) Cyclohexane	5.57	56	306636	119.906	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	264498	111.837	ug/l 100
30) 2-Butanone	4.66	43	777809	590.968	ug/l 99
31) 2,2-Dichloropropane	4.57	77	297912	133.892	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	313680	109.834	ug/l 98
33) Carbon Tetrachloride	5.78	117	271161	108.946	ug/l 99
34) Benzene	6.14	78	781741	109.722	ug/l 99
35) Methacrylonitrile	5.03	41	152546	112.996	ug/l 97
36) 1,2-Dichloroethane	6.18	62	279190	108.833	ug/l 99
37) Trichloroethene	7.20	130	209887	102.567	ug/l 99
38) Methylcyclohexane	7.46	83	330939	111.704	ug/l 98
39) 1,2-Dichloropropane	7.51	63	192936	107.911	ug/l 98
40) Dibromomethane	7.65	93	135857	105.670	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	274998	114.316	ug/l	99
42) Vinyl Acetate	3.80	43	2588500	598.883	ug/l	99
43) Ethyl Acetate	4.82	43	281464	114.273	ug/l	98
44) Isopropyl Acetate	6.43	43	462025	114.091	ug/l	99
45) 1,4-Dioxane	7.73	88	117590	2303.832	ug/l	97
46) Methyl methacrylate	7.76	41	227131	116.245	ug/l	93
47) n-amyl Acetate	10.89	43	418019	117.685	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	314550	123.317	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	337253	120.885	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	200177	105.657	ug/l	99
51) Ethyl methacrylate	9.17	69	332868	113.049	ug/l	99
52) 1,3-Dichloropropane	9.37	76	336907	109.310	ug/l	100
53) Dibromochloromethane	9.58	129	217137	106.353	ug/l	98
54) 1,2-Dibromoethane	9.67	107	211994	102.786	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	725668	575.604	ug/l	100
56) Bromoform	10.85	173	159331	105.756	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	1427597	566.544	ug/l	100
59) 2-Hexanone	9.49	43	1134884	585.184	ug/l	99
61) Tetrachloroethene	9.33	164	189494	97.805	ug/l	94
62) Toluene	8.78	91	838417	107.022	ug/l	100
64) Chlorobenzene	10.14	112	530486	105.799	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	198610	108.310	ug/l	97
66) Ethyl Benzene	10.25	91	972919	110.359	ug/l	100
67) m/p-Xylenes	10.35	106	730468	217.552	ug/l	98
68) o-Xylene	10.70	106	353993	107.447	ug/l	100
69) Styrene	10.71	104	627276	112.840	ug/l	99
70) Isopropylbenzene	11.01	105	941934	107.319	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	309890	109.097	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	246054m	104.412	ug/l	
73) Bromobenzene	11.25	156	229422	99.468	ug/l	94
74) n-propylbenzene	11.35	91	1085258	109.782	ug/l	100
75) 2-Chlorotoluene	11.42	91	658980	111.831	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	819018	110.442	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	113390	139.782	ug/l	92
78) 4-Chlorotoluene	11.51	91	763054	112.375	ug/l	99
79) tert-butylbenzene	11.77	119	791754	110.381	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	825950	110.458	ug/l	97
81) sec-Butylbenzene	11.94	105	945525	111.841	ug/l	100
82) p-Isopropyltoluene	12.06	119	877328	112.558	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	422736	102.790	ug/l	97
84) 1,4-Dichlorobenzene	12.09	146	426109	104.767	ug/l	97
85) n-Butylbenzene	12.39	91	739422	111.091	ug/l	98
86) Hexachloroethane	12.59	117	156348	122.977	ug/l	92
87) 1,2-Dichlorobenzene	12.39	146	405225	101.626	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.99	75	75626	120.478	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	262721	96.586	ug/l	99
90) Hexachlorobutadiene	13.78	225	127881	98.379	ug/l	97
91) Naphthalene	13.83	128	900477	107.028	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	258809	95.348	ug/l	98

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

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