

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050319\
 Data File : VX009307.D
 Acq On : 03 May 2019 13:33
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/6/2019 9:28:43 AM

Quant Time: May 04 03:30:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	30000	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	171559	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	151609	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	71649	28.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.97%
60) 4-Bromofluorobenzene	11.13	95	76884	29.84	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.47%
63) Toluene-d8	8.71	98	219138	30.49	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	30547	19.163	ug/l 99
3) Chloromethane	1.32	50	40458	18.882	ug/l 99
4) Vinyl Chloride	1.40	62	40644	19.014	ug/l 97
5) Bromomethane	1.64	94	23360	17.240	ug/l 100
6) Chloroethane	1.72	64	24933	17.786	ug/l 95
7) Trichlorofluoromethane	1.93	101	50684	19.202	ug/l 99
8) Diethyl Ether	2.18	74	23360	19.060	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	31947	19.549	ug/l 99
10) 1,1-Dichloroethene	2.37	96	31394	19.132	ug/l 96
11) Methyl Iodide	2.51	142	34467	19.322	ug/l 99
12) Methyl Acetate	2.77	43	56058	18.138	ug/l 99
13) Acrolein	2.29	56	29582	69.784	ug/l 98
14) Acrylonitrile	3.14	53	124666	92.943	ug/l 99
15) Acetone	2.44	58	34958	90.774	ug/l 94
16) Carbon Disulfide	2.57	76	83815	18.878	ug/l 99
17) Allyl chloride	2.73	41	73492	18.656	ug/l 99
18) Methylene Chloride	2.85	84	38053	19.189	ug/l 96
19) trans-1,2-Dichloroethene	3.16	96	33482	19.137	ug/l 98
20) Diisopropyl ether	3.85	45	148686	19.166	ug/l 97
21) 1,1-Dichloroethane	3.69	63	71162	18.955	ug/l 100
22) cis-1,2-Dichloroethene	4.59	96	40669	19.298	ug/l 99
23) tert-Butyl Alcohol	3.04	59	51697	91.150	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	121275	18.885	ug/l 100
25) Chloroform	5.21	83	65630	19.156	ug/l 99
26) Cyclohexane	5.57	56	67259	19.222	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	50211	19.946	ug/l 98
30) 2-Butanone	4.67	43	185711	94.201	ug/l 99
31) 2,2-Dichloropropane	4.58	77	52322	18.853	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	54171	19.850	ug/l 98
33) Carbon Tetrachloride	5.78	117	44361	19.429	ug/l 99
34) Benzene	6.13	78	153313	19.755	ug/l 99
35) Methacrylonitrile	5.04	41	39909	19.349	ug/l 98
36) 1,2-Dichloroethane	6.19	62	55985	19.880	ug/l 100
37) Trichloroethene	7.21	130	36978	19.793	ug/l 96
38) Methylcyclohexane	7.46	83	61960	19.922	ug/l 99
39) 1,2-Dichloropropane	7.51	63	44093	19.951	ug/l 99
40) Dibromomethane	7.66	93	24742	19.725	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	50141	19.569	ug/l	95
42) Vinyl Acetate	3.81	43	640834	98.489	ug/l	100
43) Ethyl Acetate	4.82	43	68974	19.362	ug/l	100
44) Isopropyl Acetate	6.44	43	110214	19.098	ug/l	98
45) 1,4-Dioxane	7.74	88	21858	385.779	ug/l	99
46) Methyl methacrylate	7.76	41	54878	19.052	ug/l	97
47) n-amyl Acetate	10.90	43	96402	18.543	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	55354	18.516	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	63393	19.316	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	38342	19.951	ug/l	98
51) Ethyl methacrylate	9.18	69	66940	18.849	ug/l	97
52) 1,3-Dichloropropane	9.37	76	66720	19.562	ug/l	100
53) Dibromochloromethane	9.58	129	36857	19.257	ug/l	98
54) 1,2-Dibromoethane	9.67	107	38124	19.343	ug/l	98
55) 2-Chloroethyl vinyl ether	8.30	63	188422	99.566	ug/l	99
56) Bromoform	10.85	173	27192	18.508	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	358088	96.057	ug/l	100
59) 2-Hexanone	9.49	43	272381	93.155	ug/l	99
61) Tetrachloroethene	9.34	164	34683	20.752	ug/l	97
62) Toluene	8.78	91	162554	20.065	ug/l	99
64) Chlorobenzene	10.13	112	97619	20.022	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.22	131	35159	19.694	ug/l	99
66) Ethyl Benzene	10.25	91	179436	19.882	ug/l	98
67) m/p-Xylenes	10.35	106	131840	40.011	ug/l	99
68) o-Xylene	10.69	106	64258	19.833	ug/l	99
69) Styrene	10.71	104	112526	19.784	ug/l	99
70) Isopropylbenzene	11.02	105	175922	20.189	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	61972	19.420	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	55179m	20.065	ug/l	
73) Bromobenzene	11.26	156	42866	19.911	ug/l	99
74) n-propylbenzene	11.36	91	203920	20.195	ug/l	100
75) 2-Chlorotoluene	11.42	91	121402	20.045	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	149261	20.222	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	19536	17.612	ug/l	98
78) 4-Chlorotoluene	11.51	91	138006	20.063	ug/l	100
79) tert-butylbenzene	11.77	119	142970	20.037	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	147305	19.912	ug/l	99
81) sec-Butylbenzene	11.94	105	172061	20.296	ug/l	100
82) p-Isopropyltoluene	12.06	119	155771	20.200	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	75165	19.550	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	75205	19.633	ug/l	99
85) n-Butylbenzene	12.38	91	138460	19.622	ug/l	100
86) Hexachloroethane	12.59	117	24771	18.877	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	77568	20.042	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	13702	18.477	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	54214	19.653	ug/l	99
90) Hexachlorobutadiene	13.78	225	27746	20.136	ug/l	100
91) Naphthalene	13.83	128	179134	19.834	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	56843	20.271	ug/l	99

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

