

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX043020\
 Data File : VX016000.D
 Acq On : 30 Apr 2020 17:08
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/4/2020 3:10:30 PM

Quant Time: May 01 08:52:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 30 12:42:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	49398	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	276088	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	251028	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	115845	30.51	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.70%
60) 4-Bromofluorobenzene	11.12	95	122977	29.21	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.37%
63) Toluene-d8	8.70	98	328981	30.55	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	65689	19.306	ug/l 99
3) Chloromethane	1.31	50	64213	19.262	ug/l 100
4) Vinyl Chloride	1.39	62	70082	18.503	ug/l 100
5) Bromomethane	1.63	94	48814	21.026	ug/l 99
6) Chloroethane	1.72	64	46190	18.602	ug/l 98
7) Trichlorofluoromethane	1.92	101	103903	19.152	ug/l 98
8) Diethyl Ether	2.17	74	40582	18.741	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.37	101	50781	18.125	ug/l 99
10) 1,1-Dichloroethene	2.36	96	50248	17.776	ug/l 92
11) Methyl Iodide	2.49	142	66508	17.235	ug/l 98
12) Methyl Acetate	2.75	43	95221	19.294	ug/l 100
13) Acrolein	2.27	56	34397	86.941	ug/l 98
14) Acrylonitrile	3.12	53	169741	93.114	ug/l 99
15) Acetone	2.42	58	46284	95.938	ug/l 96
16) Carbon Disulfide	2.55	76	153627	17.865	ug/l 99
17) Allyl chloride	2.71	41	95415	18.196	ug/l 97
18) Methylene Chloride	2.84	84	58102	18.349	ug/l 97
19) trans-1,2-Dichloroethene	3.14	96	56170	18.169	ug/l 99
20) Diisopropyl ether	3.82	45	185131	18.311	ug/l 90
21) 1,1-Dichloroethane	3.67	63	102689	18.216	ug/l 99
22) cis-1,2-Dichloroethene	4.57	96	63180	18.008	ug/l 98
23) tert-Butyl Alcohol	3.01	59	83909	94.032	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	188914	18.610	ug/l 99
25) Chloroform	5.18	83	103905	18.148	ug/l 97
26) Cyclohexane	5.55	56	93143	18.068	ug/l # 99
29) 1,1-Dichloropropene	5.78	75	77416	17.829	ug/l 99
30) 2-Butanone	4.64	43	244144	94.360	ug/l 99
31) 2,2-Dichloropropane	4.56	77	90774	17.370	ug/l 99
32) 1,1,1-Trichloroethane	5.47	97	95642	18.157	ug/l 100
33) Carbon Tetrachloride	5.76	117	85011	18.126	ug/l 98
34) Benzene	6.12	78	229163	18.068	ug/l 99
35) Methacrylonitrile	5.01	41	50336	18.319	ug/l 99
36) 1,2-Dichloroethane	6.17	62	88927	18.360	ug/l 99
37) Trichloroethene	7.20	130	81916	18.156	ug/l 98
38) Methylcyclohexane	7.44	83	93229	17.569	ug/l 99
39) 1,2-Dichloropropane	7.49	63	58763	18.049	ug/l 100
40) Dibromomethane	7.64	93	40507	17.918	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	82492	17.700	ug/l	99
42) Vinyl Acetate	3.79	43	772996	90.304	ug/l	100
43) Ethyl Acetate	4.79	43	96177	18.844	ug/l	100
44) Isopropyl Acetate	6.42	43	153394	18.521	ug/l	100
45) 1,4-Dioxane	7.71	88	32046	366.301	ug/l	99
46) Methyl methacrylate	7.75	41	71010	18.085	ug/l	99
47) n-amyl Acetate	10.88	43	126570	17.477	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	94997	17.553	ug/l	99
49) cis-1,3-Dichloropropene	8.42	75	99749	17.839	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	57354	18.003	ug/l	98
51) Ethyl methacrylate	9.16	69	94050	17.878	ug/l	99
52) 1,3-Dichloropropane	9.35	76	100018	18.161	ug/l	99
53) Dibromochloromethane	9.57	129	62837	17.337	ug/l	100
54) 1,2-Dibromoethane	9.65	107	61949	17.693	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	257648	90.025	ug/l	99
56) Bromoform	10.84	173	44793	16.402	ug/l	98
58) 4-Methyl-2-Pentanone	8.62	43	469051	94.751	ug/l	100
59) 2-Hexanone	9.48	43	362058	94.687	ug/l	100
61) Tetrachloroethene	9.32	164	90256	18.176	ug/l	98
62) Toluene	8.77	91	246145	18.354	ug/l	100
64) Chlorobenzene	10.12	112	153780	18.009	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	58319	17.990	ug/l	98
66) Ethyl Benzene	10.24	91	276096	18.080	ug/l	99
67) m/p-Xylenes	10.34	106	206266	35.456	ug/l	100
68) o-Xylene	10.68	106	99318	17.704	ug/l	99
69) Styrene	10.70	104	167395	17.434	ug/l	99
70) Isopropylbenzene	11.01	105	268818	17.748	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	48349	17.171	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	85129m	18.667	ug/l	
73) Bromobenzene	11.24	156	65669	17.205	ug/l	96
74) n-propylbenzene	11.34	91	309934	17.617	ug/l	99
75) 2-Chlorotoluene	11.40	91	181352	17.542	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	223992	17.422	ug/l	100
77) t-1,4-Dichloro-2-butene	11.06	75	33347	17.006	ug/l	99
78) 4-Chlorotoluene	11.49	91	212439	17.360	ug/l	99
79) tert-butylbenzene	11.76	119	192905	17.568	ug/l	98
80) 1,2,4-Trimethylbenzene	11.79	105	223173	17.375	ug/l	99
81) sec-Butylbenzene	11.93	105	255929	17.281	ug/l	99
82) p-Isopropyltoluene	12.05	119	237035	17.271	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	120693	17.539	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	119935	17.540	ug/l	98
85) n-Butylbenzene	12.37	91	208690	16.647	ug/l	100
86) Hexachloroethane	12.58	117	40372	16.710	ug/l	99
87) 1,2-Dichlorobenzene	12.38	146	119437	17.946	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.98	75	21329	18.103	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	82398	16.809	ug/l	100
90) Hexachlorobutadiene	13.77	225	36429	17.291	ug/l	98
91) Naphthalene	13.82	128	276292	17.704	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	81213	17.245	ug/l	97

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

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