

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011520\
 Data File : VX014626.D
 Acq On : 15 Jan 2020 18:10
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 1/16/2020 9:42:27 AM

Quant Time: Jan 16 03:14:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	74306	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	404915	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	371348	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	155652	29.80	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.33%
60) 4-Bromofluorobenzene	11.13	95	176106	29.64	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.80%
63) Toluene-d8	8.71	98	509520	30.38	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	105361	20.517	ug/l 98
3) Chloromethane	1.32	50	116382	20.700	ug/l 94
4) Vinyl Chloride	1.40	62	127103	20.134	ug/l 97
5) Bromomethane	1.64	94	74518	18.916	ug/l 96
6) Chloroethane	1.72	64	70996	19.950	ug/l 97
7) Trichlorofluoromethane	1.93	101	138967	19.881	ug/l 100
8) Diethyl Ether	2.18	74	61581	20.170	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.38	101	81802	20.003	ug/l 99
10) 1,1-Dichloroethene	2.37	96	81635	19.846	ug/l 94
11) Methyl Iodide	2.50	142	98800	17.910	ug/l 98
12) Methyl Acetate	2.76	43	152947	20.583	ug/l 99
13) Acrolein	2.28	56	69918	89.580	ug/l 96
14) Acrylonitrile	3.13	53	255429	100.459	ug/l 99
15) Acetone	2.43	58	74312	87.180	ug/l 76
16) Carbon Disulfide	2.56	76	216951	19.204	ug/l 98
17) Allyl chloride	2.72	41	146898	19.296	ug/l 96
18) Methylene Chloride	2.85	84	96369	20.018	ug/l 96
19) trans-1,2-Dichloroethene	3.16	96	87037	19.656	ug/l 99
20) Diisopropyl ether	3.84	45	304142	20.193	ug/l 98
21) 1,1-Dichloroethane	3.69	63	159994	19.553	ug/l 98
22) cis-1,2-Dichloroethene	4.59	96	99172	19.490	ug/l 96
23) tert-Butyl Alcohol	3.03	59	105549	100.377	ug/l # 99
24) Methyl tert-Butyl Ether	3.18	73	271947	19.865	ug/l 98
25) Chloroform	5.20	83	154227	19.458	ug/l 100
26) Cyclohexane	5.57	56	149197	19.768	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	117191	19.734	ug/l 99
30) 2-Butanone	4.65	43	356508	94.772	ug/l 100
31) 2,2-Dichloropropane	4.58	77	123484	19.434	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	132295	20.137	ug/l 99
33) Carbon Tetrachloride	5.78	117	110163	19.531	ug/l 99
34) Benzene	6.14	78	368031	20.056	ug/l 99
35) Methacrylonitrile	5.03	41	72931	19.412	ug/l 97
36) 1,2-Dichloroethane	6.18	62	127989	20.042	ug/l 98
37) Trichloroethene	7.21	130	101386	20.179	ug/l 96
38) Methylcyclohexane	7.46	83	144597	19.556	ug/l 99
39) 1,2-Dichloropropane	7.51	63	94801	19.867	ug/l 94
40) Dibromomethane	7.65	93	60143	19.612	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	115313	19.202	ug/l	99
42) Vinyl Acetate	3.80	43	1171859	101.070	ug/l	99
43) Ethyl Acetate	4.82	43	134877	19.806	ug/l	100
44) Isopropyl Acetate	6.43	43	218305	19.872	ug/l	99
45) 1,4-Dioxane	7.73	88	46858	426.418	ug/l	97
46) Methyl methacrylate	7.76	41	106926	19.793	ug/l	98
47) n-amyl Acetate	10.89	43	177120	19.242	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	124483	18.986	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	142156	19.242	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	92885	19.905	ug/l	98
51) Ethyl methacrylate	9.17	69	139928	19.259	ug/l	97
52) 1,3-Dichloropropane	9.37	76	159288	20.147	ug/l	100
53) Dibromochloromethane	9.57	129	92281	19.334	ug/l	98
54) 1,2-Dibromoethane	9.67	107	97609	20.169	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	314978	94.328	ug/l	98
56) Bromoform	10.85	173	66628	18.123	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	702932	100.518	ug/l	99
59) 2-Hexanone	9.48	43	527075	97.456	ug/l	99
61) Tetrachloroethene	9.33	164	103716	18.896	ug/l	96
62) Toluene	8.78	91	393509	19.973	ug/l	99
64) Chlorobenzene	10.14	112	244353	19.868	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	87730	19.313	ug/l	100
66) Ethyl Benzene	10.25	91	427850	19.938	ug/l	100
67) m/p-Xylenes	10.35	106	320848	39.033	ug/l	99
68) o-Xylene	10.70	106	153255	19.147	ug/l	98
69) Styrene	10.71	104	264316	19.490	ug/l	99
70) Isopropylbenzene	11.01	105	412770	19.684	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	137324	19.441	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	119174m	19.724	ug/l	
73) Bromobenzene	11.25	156	107352	19.312	ug/l	99
74) n-propylbenzene	11.35	91	465117	19.411	ug/l	99
75) 2-Chlorotoluene	11.42	91	279093	19.434	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	347878	19.909	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	40802	17.546	ug/l	94
78) 4-Chlorotoluene	11.51	91	316048	19.378	ug/l	99
79) tert-butylbenzene	11.76	119	324383	19.841	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	344755	19.782	ug/l	100
81) sec-Butylbenzene	11.94	105	396495	19.598	ug/l	100
82) p-Isopropyltoluene	12.06	119	358399	19.405	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	187796	19.349	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	183113	19.029	ug/l	100
85) n-Butylbenzene	12.39	91	299940	18.561	ug/l	100
86) Hexachloroethane	12.59	117	61325	18.516	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	185843	18.976	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	29392	19.479	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	121043	18.725	ug/l	100
90) Hexachlorobutadiene	13.78	225	61713	19.106	ug/l	99
91) Naphthalene	13.83	128	380963	19.524	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	126983	19.299	ug/l	98

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

