

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011620\
 Data File : VX014641.D
 Acq On : 16 Jan 2020 16:54
 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
 1/17/2020 11:24:00 AM

Quant Time: Jan 17 06:37:48 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	5.00	128	76085	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	423841	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	386325	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	163520	30.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.93%
60) 4-Bromofluorobenzene	11.13	95	185750	30.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.17%
63) Toluene-d8	8.71	98	529333	30.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	108211	20.580	ug/l 97
3) Chloromethane	1.32	50	114564	19.900	ug/l 96
4) Vinyl Chloride	1.40	62	129200	19.988	ug/l 99
5) Bromomethane	1.64	94	69087	17.128	ug/l 99
6) Chloroethane	1.72	64	69263	19.008	ug/l 98
7) Trichlorofluoromethane	1.93	101	137493	19.210	ug/l 99
8) Diethyl Ether	2.18	74	60380	19.314	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.38	101	85918	20.518	ug/l 99
10) 1,1-Dichloroethene	2.37	96	82533	19.595	ug/l 95
11) Methyl Iodide	2.50	142	104429	18.488	ug/l 98
12) Methyl Acetate	2.76	43	144246	18.958	ug/l 99
13) Acrolein	2.28	56	65442	81.884	ug/l 97
14) Acrylonitrile	3.12	53	237284	91.141	ug/l 99
15) Acetone	2.43	58	57165	65.496	ug/l 92
16) Carbon Disulfide	2.56	76	218501	18.889	ug/l 99
17) Allyl chloride	2.72	41	143902	18.461	ug/l 98
18) Methylene Chloride	2.85	84	132886	26.958	ug/l 96
19) trans-1,2-Dichloroethene	3.15	96	88848	19.595	ug/l 95
20) Diisopropyl ether	3.84	45	300892	19.510	ug/l 97
21) 1,1-Dichloroethane	3.69	63	159164	18.997	ug/l 100
22) cis-1,2-Dichloroethene	4.58	96	100591	19.306	ug/l 97
23) tert-Butyl Alcohol	3.02	59	94051	87.351	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	271633	19.379	ug/l 97
25) Chloroform	5.20	83	155830	19.200	ug/l 97
26) Cyclohexane	5.57	56	150968	19.535	ug/l 98
29) 1,1-Dichloropropene	5.79	75	119648	19.248	ug/l 99
30) 2-Butanone	4.65	43	320586	81.417	ug/l 100
31) 2,2-Dichloropropane	4.57	77	127516	19.172	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	130990	19.048	ug/l 99
33) Carbon Tetrachloride	5.78	117	114535	19.400	ug/l 97
34) Benzene	6.13	78	371444	19.338	ug/l 99
35) Methacrylonitrile	5.02	41	71461	18.172	ug/l 93
36) 1,2-Dichloroethane	6.18	62	126185	18.877	ug/l 98
37) Trichloroethene	7.20	130	102862	19.558	ug/l 95
38) Methylcyclohexane	7.45	83	149968	19.377	ug/l 99
39) 1,2-Dichloropropane	7.50	63	94585	18.937	ug/l 90
40) Dibromomethane	7.65	93	60537	18.859	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	114409	18.201	ug/l	99
42) Vinyl Acetate	3.80	43	1145820	94.412	ug/l	99
43) Ethyl Acetate	4.81	43	127437	17.878	ug/l	100
44) Isopropyl Acetate	6.43	43	210602	18.315	ug/l	100
45) 1,4-Dioxane	7.73	88	41216	358.326	ug/l	97
46) Methyl methacrylate	7.76	41	102540	18.133	ug/l	98
47) n-amyl Acetate	10.89	43	175451	18.210	ug/l	100
48) t-1,3-Dichloropropene	9.03	75	127500	18.578	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	142552	18.434	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	92648	18.968	ug/l	97
51) Ethyl methacrylate	9.17	69	140975	18.536	ug/l	97
52) 1,3-Dichloropropane	9.36	76	157631	19.047	ug/l	99
53) Dibromochloromethane	9.57	129	91968	18.408	ug/l	99
54) 1,2-Dibromoethane	9.67	107	95682	18.888	ug/l	99
55) 2-Chloroethyl vinyl ether	8.30	63	327743	93.768	ug/l	99
56) Bromoform	10.85	173	68773	17.871	ug/l	97
58) 4-Methyl-2-Pentanone	8.63	43	656456	90.233	ug/l	99
59) 2-Hexanone	9.48	43	496182	88.187	ug/l	99
61) Tetrachloroethene	9.33	164	110263	19.310	ug/l	98
62) Toluene	8.78	91	396188	19.330	ug/l	99
64) Chlorobenzene	10.13	112	243922	19.064	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	89459	18.930	ug/l	98
66) Ethyl Benzene	10.25	91	431040	19.308	ug/l	97
67) m/p-Xylenes	10.35	106	330400	38.637	ug/l	99
68) o-Xylene	10.69	106	157852	18.956	ug/l	98
69) Styrene	10.71	104	268759	19.049	ug/l	99
70) Isopropylbenzene	11.01	105	427618	19.602	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	133126	18.116	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	115278m	18.340	ug/l	
73) Bromobenzene	11.25	156	110074	19.034	ug/l	99
74) n-propylbenzene	11.35	91	491078	19.700	ug/l	99
75) 2-Chlorotoluene	11.42	91	285239	19.092	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	354642	19.510	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	41405	17.115	ug/l	95
78) 4-Chlorotoluene	11.51	91	328364	19.353	ug/l	98
79) tert-butylbenzene	11.76	119	327397	19.249	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	349706	19.288	ug/l	99
81) sec-Butylbenzene	11.94	105	415522	19.743	ug/l	99
82) p-Isopropyltoluene	12.06	119	375919	19.565	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	193609	19.174	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	197040	19.683	ug/l	99
85) n-Butylbenzene	12.38	91	328288	19.528	ug/l	100
86) Hexachloroethane	12.59	117	61973	17.987	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	192220	18.867	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	27477	17.504	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	130410	19.392	ug/l	98
90) Hexachlorobutadiene	13.77	225	65408	19.465	ug/l	97
91) Naphthalene	13.83	128	385133	18.972	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	134437	19.640	ug/l	98

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

