

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012420\
 Data File : VX014690.D
 Acq On : 24 Jan 2020 11:56
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 1/27/2020 10:35:17 AM

Quant Time: Jan 24 22:41:49 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	69163	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	368202	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	340465	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	149769	30.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.70%
60) 4-Bromofluorobenzene	11.13	95	164435	30.18	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.60%
63) Toluene-d8	8.71	98	459553	29.88	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	84817	17.745	ug/l 99
3) Chloromethane	1.32	50	98398	18.803	ug/l 97
4) Vinyl Chloride	1.40	62	106823	18.180	ug/l 99
5) Bromomethane	1.64	94	66542	18.148	ug/l 97
6) Chloroethane	1.72	64	62087	18.744	ug/l 99
7) Trichlorofluoromethane	1.92	101	116956	17.976	ug/l 99
8) Diethyl Ether	2.18	74	58479	20.578	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	68731	18.056	ug/l 100
10) 1,1-Dichloroethene	2.37	96	68444	17.876	ug/l 95
11) Methyl Iodide	2.50	142	96896	18.871	ug/l 99
12) Methyl Acetate	2.76	43	147147	21.275	ug/l 98
13) Acrolein	2.28	56	87278	120.136	ug/l 96
14) Acrylonitrile	3.13	53	237649	100.417	ug/l 99
15) Acetone	2.43	58	82029	103.389	ug/l 87
16) Carbon Disulfide	2.56	76	185139	17.607	ug/l 97
17) Allyl chloride	2.72	41	132783	18.739	ug/l 96
18) Methylene Chloride	2.85	84	92291	20.596	ug/l 92
19) trans-1,2-Dichloroethene	3.15	96	77098	18.706	ug/l 95
20) Diisopropyl ether	3.84	45	290397	20.714	ug/l 95
21) 1,1-Dichloroethane	3.69	63	148656	19.519	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	93162	19.670	ug/l 97
23) tert-Butyl Alcohol	3.02	59	98240	100.373	ug/l 100
24) Methyl tert-Butyl Ether	3.18	73	263312	20.665	ug/l 100
25) Chloroform	5.20	83	149722	20.294	ug/l 96
26) Cyclohexane	5.56	56	121905	17.353	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	100808	18.668	ug/l 99
30) 2-Butanone	4.65	43	358389	104.771	ug/l 99
31) 2,2-Dichloropropane	4.58	77	111416	19.283	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	114437	19.155	ug/l 99
33) Carbon Tetrachloride	5.78	117	93893	18.307	ug/l 97
34) Benzene	6.13	78	335654	20.115	ug/l 96
35) Methacrylonitrile	5.02	41	69329	20.293	ug/l 99
36) 1,2-Dichloroethane	6.18	62	123858	21.329	ug/l 98
37) Trichloroethene	7.20	130	89607	19.613	ug/l 93
38) Methylcyclohexane	7.45	83	120146	17.870	ug/l 98
39) 1,2-Dichloropropane	7.50	63	88772	20.459	ug/l 96
40) Dibromomethane	7.65	93	58607	21.017	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	112124	20.532	ug/l	99
42) Vinyl Acetate	3.80	43	1104828	104.790	ug/l	99
43) Ethyl Acetate	4.81	43	128322	20.723	ug/l	100
44) Isopropyl Acetate	6.43	43	207821	20.804	ug/l	98
45) 1,4-Dioxane	7.73	88	41569	416.005	ug/l	94
46) Methyl methacrylate	7.76	41	100369	20.432	ug/l	95
47) n-amyl Acetate	10.89	43	165668	19.793	ug/l	98
48) t-1,3-Dichloropropene	9.03	75	123742	20.755	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	138015	20.545	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	88454	20.846	ug/l	96
51) Ethyl methacrylate	9.17	69	133857	20.260	ug/l	95
52) 1,3-Dichloropropane	9.36	76	150154	20.886	ug/l	97
53) Dibromochloromethane	9.57	129	90446	20.839	ug/l	99
54) 1,2-Dibromoethane	9.67	107	93877	21.332	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	296384	97.610	ug/l	99
56) Bromoform	10.85	173	67943	20.323	ug/l	99
58) 4-Methyl-2-Pentanone	8.63	43	658678	102.734	ug/l	99
59) 2-Hexanone	9.48	43	513085	103.474	ug/l	99
61) Tetrachloroethene	9.33	164	97819	19.438	ug/l	99
62) Toluene	8.78	91	358538	19.849	ug/l	99
64) Chlorobenzene	10.14	112	225887	20.032	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	82010	19.692	ug/l	97
66) Ethyl Benzene	10.25	91	380088	19.318	ug/l	98
67) m/p-Xylenes	10.35	106	295113	39.159	ug/l	99
68) o-Xylene	10.70	106	142667	19.441	ug/l	99
69) Styrene	10.71	104	248659	19.998	ug/l	99
70) Isopropylbenzene	11.01	105	368007	19.142	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	130832	20.202	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	112620m	20.330	ug/l	
73) Bromobenzene	11.25	156	101223	19.862	ug/l	99
74) n-propylbenzene	11.35	91	422736	19.243	ug/l	99
75) 2-Chlorotoluene	11.42	91	258566	19.638	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	310893	19.407	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	39995	18.759	ug/l	96
78) 4-Chlorotoluene	11.51	91	294409	19.689	ug/l	99
79) tert-butylbenzene	11.76	119	283659	18.924	ug/l	97
80) 1,2,4-Trimethylbenzene	11.80	105	315080	19.719	ug/l	100
81) sec-Butylbenzene	11.94	105	348331	18.780	ug/l	100
82) p-Isopropyltoluene	12.06	119	319941	18.894	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	176543	19.839	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	175643	19.909	ug/l	99
85) n-Butylbenzene	12.39	91	267347	18.045	ug/l	99
86) Hexachloroethane	12.59	117	56001	18.443	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	179774	20.022	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	27607	19.956	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	116826	19.712	ug/l	99
90) Hexachlorobutadiene	13.78	225	55057	18.592	ug/l	99
91) Naphthalene	13.83	128	345875	19.333	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	120654	20.001	ug/l	99

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

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