

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VOX030620\
 Data File : VX015129.D
 Acq On : 06 Mar 2020 16:20
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 3/9/2020 9:36:16 AM

Quant Time: Mar 07 01:23:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X022120W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 00:37:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	63092	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.84	114	330016	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	306533	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	130181	29.67	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.90%
60) 4-Bromofluorobenzene	11.13	95	142446	29.84	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.47%
63) Toluene-d8	8.71	98	403948	30.22	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	47217	16.759	ug/l 95
3) Chloromethane	1.32	50	72881	20.006	ug/l 96
4) Vinyl Chloride	1.40	62	75124	19.161	ug/l 98
5) Bromomethane	1.64	94	46012	16.758	ug/l 97
6) Chloroethane	1.72	64	47886	18.233	ug/l 100
7) Trichlorofluoromethane	1.92	101	96069	16.836	ug/l 97
8) Diethyl Ether	2.18	74	45847	19.099	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	63009	19.099	ug/l 99
10) 1,1-Dichloroethene	2.37	96	60818	18.337	ug/l 96
11) Methyl Iodide	2.50	142	52081	12.923	ug/l 98
12) Methyl Acetate	2.76	43	76766	18.600	ug/l 95
13) Acrolein	2.28	56	81686	99.518	ug/l 98
14) Acrylonitrile	3.12	53	171775	92.160	ug/l 99
15) Acetone	2.43	58	43518	65.241	ug/l 92
16) Carbon Disulfide	2.56	76	148716	16.677	ug/l 98
17) Allyl chloride	2.72	41	108515	18.809	ug/l 99
18) Methylene Chloride	2.84	84	71967	18.833	ug/l 95
19) trans-1,2-Dichloroethene	3.16	96	66218	18.177	ug/l 99
20) Diisopropyl ether	3.84	45	226860	19.254	ug/l 98
21) 1,1-Dichloroethane	3.69	63	122240	18.926	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	77066	18.487	ug/l 99
23) tert-Butyl Alcohol	3.01	59	61269	82.925	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	202984	18.395	ug/l 99
25) Chloroform	5.19	83	125812	19.316	ug/l 93
26) Cyclohexane	5.56	56	105168	18.218	ug/l # 97
29) 1,1-Dichloropropene	5.79	75	88992	19.065	ug/l 99
30) 2-Butanone	4.65	43	228506	84.810	ug/l 99
31) 2,2-Dichloropropane	4.57	77	100392	19.586	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	103106	19.451	ug/l 97
33) Carbon Tetrachloride	5.77	117	88049	18.975	ug/l 97
34) Benzene	6.13	78	278247	19.755	ug/l 97
35) Methacrylonitrile	5.02	41	51097	18.591	ug/l 96
36) 1,2-Dichloroethane	6.18	62	100024	20.062	ug/l 99
37) Trichloroethene	7.20	130	76239	19.278	ug/l 97
38) Methylcyclohexane	7.45	83	108000	18.666	ug/l 98
39) 1,2-Dichloropropane	7.50	63	71870	19.823	ug/l 98
40) Dibromomethane	7.65	93	47592	19.659	ug/l 99

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	94908	19.846	ug/l	99
42) Vinyl Acetate	3.80	43	933317	98.415	ug/l	99
43) Ethyl Acetate	4.81	43	94690m	19.423	ug/l	
44) Isopropyl Acetate	6.43	43	153481	18.728	ug/l	100
45) 1,4-Dioxane	7.72	88	30173	398.450	ug/l	98
46) Methyl methacrylate	7.76	41	74180	18.296	ug/l	96
47) n-amyl Acetate	10.89	43	129683	18.266	ug/l	97
48) t-1,3-Dichloropropene	9.03	75	99376	18.730	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	111577	19.101	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	71675	19.872	ug/l	97
51) Ethyl methacrylate	9.17	69	100387	18.033	ug/l	98
52) 1,3-Dichloropropane	9.36	76	121440	19.903	ug/l	99
53) Dibromochloromethane	9.57	129	73497	18.847	ug/l	99
54) 1,2-Dibromoethane	9.67	107	74046	19.336	ug/l	99
55) 2-Chloroethyl vinyl ether	8.30	63	306747	103.442	ug/l	99
56) Bromoform	10.85	173	54160	17.717	ug/l	100
58) 4-Methyl-2-Pentanone	8.63	43	468203	93.199	ug/l	100
59) 2-Hexanone	9.48	43	348902	88.888	ug/l	99
61) Tetrachloroethene	9.33	164	76951	18.690	ug/l	96
62) Toluene	8.78	91	298606	19.018	ug/l	100
64) Chlorobenzene	10.13	112	189595	18.918	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	70284	18.934	ug/l	99
66) Ethyl Benzene	10.25	91	326219	18.861	ug/l	100
67) m/p-Xylenes	10.36	106	253170	37.960	ug/l	100
68) o-Xylene	10.69	106	120657	18.697	ug/l	100
69) Styrene	10.71	104	206345	18.722	ug/l	100
70) Isopropylbenzene	11.01	105	325450	18.986	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	105827	19.175	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	87529m	19.120	ug/l	
73) Bromobenzene	11.25	156	86725	18.724	ug/l	97
74) n-propylbenzene	11.35	91	372638	19.100	ug/l	100
75) 2-Chlorotoluene	11.42	91	222498	19.299	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	274026	19.075	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	30193	16.356	ug/l	96
78) 4-Chlorotoluene	11.51	91	257714	19.325	ug/l	99
79) tert-butylbenzene	11.76	119	261477	18.840	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	269880	18.897	ug/l	99
81) sec-Butylbenzene	11.94	105	318984	19.192	ug/l	100
82) p-Isopropyltoluene	12.06	119	283804	18.380	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	150181	18.497	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	152002	18.591	ug/l	99
85) n-Butylbenzene	12.39	91	246576	18.351	ug/l	100
86) Hexachloroethane	12.59	117	50196	17.984	ug/l	92
87) 1,2-Dichlorobenzene	12.39	146	150519	18.630	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	20265	16.860	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	102781	17.690	ug/l	98
90) Hexachlorobutadiene	13.78	225	53268	18.461	ug/l	95
91) Naphthalene	13.83	128	286122	17.394	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	106424	18.449	ug/l	98

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

