

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022120\
 Data File : VX014996.D
 Acq On : 21 Feb 2020 16:39
 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
 2/24/2020 11:28:35 AM

Quant Time: Feb 22 02:09:07 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	74666	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	408243	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	376414	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	151923	29.26	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.53%
60) 4-Bromofluorobenzene	11.13	95	173317	29.56	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.53%
63) Toluene-d8	8.71	98	484351	29.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	60024	18.002	ug/l 97
3) Chloromethane	1.32	50	82058	19.033	ug/l 97
4) Vinyl Chloride	1.41	62	85448	18.415	ug/l 100
5) Bromomethane	1.64	94	59197	18.218	ug/l 100
6) Chloroethane	1.72	64	59810	19.243	ug/l 98
7) Trichlorofluoromethane	1.93	101	128472	19.024	ug/l 95
8) Diethyl Ether	2.18	74	54002	19.009	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	2.38	101	76212	19.520	ug/l 98
10) 1,1-Dichloroethene	2.37	96	74463	18.971	ug/l 98
11) Methyl Iodide	2.50	142	71654	15.024	ug/l 96
12) Methyl Acetate	2.76	43	92738	18.987	ug/l 95
13) Acrolein	2.28	56	89380	92.012	ug/l 96
14) Acrylonitrile	3.12	53	211805	96.022	ug/l 100
15) Acetone	2.43	58	67624	85.665	ug/l 92
16) Carbon Disulfide	2.56	76	194137	18.395	ug/l 99
17) Allyl chloride	2.72	41	128439	18.811	ug/l 99
18) Methylene Chloride	2.85	84	86257	19.073	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	82516	19.140	ug/l 100
20) Diisopropyl ether	3.84	45	266614	19.120	ug/l 99
21) 1,1-Dichloroethane	3.69	63	145744	19.067	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	94123	19.078	ug/l 97
23) tert-Butyl Alcohol	3.02	59	80122	91.632	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	248874	19.058	ug/l 98
25) Chloroform	5.20	83	148118	19.216	ug/l 95
26) Cyclohexane	5.57	56	127810	18.708	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	111138	19.247	ug/l 98
30) 2-Butanone	4.65	43	305009	91.512	ug/l 99
31) 2,2-Dichloropropane	4.57	77	119342	18.822	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	122723	18.715	ug/l 99
33) Carbon Tetrachloride	5.78	117	108604	18.920	ug/l 99
34) Benzene	6.13	78	337110	19.348	ug/l 98
35) Methacrylonitrile	5.03	41	64337	18.923	ug/l 95
36) 1,2-Dichloroethane	6.18	62	120794	19.586	ug/l 97
37) Trichloroethene	7.20	130	93500	19.112	ug/l 94
38) Methylcyclohexane	7.45	83	138899	19.406	ug/l 99
39) 1,2-Dichloropropane	7.50	63	85261	19.010	ug/l 96
40) Dibromomethane	7.65	93	57064	19.054	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	111373	18.826	ug/l	95
42) Vinyl Acetate	3.80	43	1124500	95.854	ug/l	99
43) Ethyl Acetate	4.81	43	115762	19.196	ug/l	99
44) Isopropyl Acetate	6.43	43	189750	18.717	ug/l	100
45) 1,4-Dioxane	7.72	88	34232	365.430	ug/l	94
46) Methyl methacrylate	7.76	41	92673	18.478	ug/l	96
47) n-amyl Acetate	10.89	43	159471	18.158	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	121196	18.465	ug/l	94
49) cis-1,3-Dichloropropene	8.43	75	136537	18.895	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	84995	19.050	ug/l	96
51) Ethyl methacrylate	9.17	69	128484	18.657	ug/l	95
52) 1,3-Dichloropropane	9.36	76	143664	19.034	ug/l	99
53) Dibromochloromethane	9.57	129	91376	18.942	ug/l	100
54) 1,2-Dibromoethane	9.67	107	91119	19.235	ug/l	99
55) 2-Chloroethyl vinyl ether	8.30	63	360392	98.245	ug/l	100
56) Bromoform	10.85	173	69461	18.369	ug/l	100
58) 4-Methyl-2-Pentanone	8.63	43	582439	94.415	ug/l	99
59) 2-Hexanone	9.48	43	449618	93.281	ug/l	99
61) Tetrachloroethene	9.33	164	96746	19.136	ug/l	98
62) Toluene	8.78	91	366597	19.014	ug/l	100
64) Chlorobenzene	10.13	112	232646	18.905	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	86086	18.885	ug/l	98
66) Ethyl Benzene	10.25	91	404672	19.054	ug/l	100
67) m/p-Xylenes	10.35	106	311852	38.078	ug/l	99
68) o-Xylene	10.69	106	148071	18.686	ug/l	100
69) Styrene	10.71	104	251928	18.615	ug/l	99
70) Isopropylbenzene	11.01	105	402151	19.105	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.26	83	127803	18.858	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	107684m	19.155	ug/l	
73) Bromobenzene	11.25	156	105405	18.533	ug/l	96
74) n-propylbenzene	11.35	91	463602	19.351	ug/l	100
75) 2-Chlorotoluene	11.42	91	269817	19.058	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	335990	19.046	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	38629	17.041	ug/l	97
78) 4-Chlorotoluene	11.51	91	314562	19.209	ug/l	100
79) tert-butylbenzene	11.76	119	322721	18.936	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	334071	19.049	ug/l	100
81) sec-Butylbenzene	11.94	105	395466	19.376	ug/l	98
82) p-Isopropyltoluene	12.06	119	365320	19.266	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	195186	19.577	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	191680	19.091	ug/l	97
85) n-Butylbenzene	12.38	91	326865	19.810	ug/l	99
86) Hexachloroethane	12.59	117	62170	18.139	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	189438	19.094	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.99	75	25975	17.598	ug/l	95
89) 1,2,4-Trichlorobenzene	13.64	180	137836	19.319	ug/l	99
90) Hexachlorobutadiene	13.78	225	70626	19.932	ug/l	95
91) Naphthalene	13.83	128	378080	18.718	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	136663	19.293	ug/l	99

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

