

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101520\
 Data File : VX018953.D
 Acq On : 15 Oct 2020 23:17
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

apatel
 10/16/2020 2:11:22 PM

Quant Time: Oct 16 05:21:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 15 15:32:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	45703	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	254982	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	230680	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	92499	31.73	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.77%
60) 4-Bromofluorobenzene	11.12	95	106561	29.67	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.90%
63) Toluene-d8	8.70	98	307426	30.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	37456	17.286 ug/l	96
3) Chloromethane	1.31	50	44906	18.323 ug/l	100
4) Vinyl Chloride	1.39	62	59452	19.768 ug/l	99
5) Bromomethane	1.63	94	51723	29.041 ug/l	99
6) Chloroethane	1.72	64	40554	19.550 ug/l	98
7) Trichlorofluoromethane	1.92	101	92670	19.573 ug/l	99
8) Diethyl Ether	2.17	74	38037	20.409 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.36	101	42031	15.966 ug/l	95
10) 1,1-Dichloroethene	2.36	96	46058	16.834 ug/l	100
11) Methyl Iodide	2.49	142	37229	11.460 ug/l	99
12) Methyl Acetate	2.75	43	52160	19.441 ug/l	98
13) Acrolein	2.28	56	46796	91.212 ug/l	98
14) Acrylonitrile	3.12	53	120059	96.182 ug/l	98
15) Acetone	2.42	58	36841	87.686 ug/l	96
16) Carbon Disulfide	2.55	76	123928	18.469 ug/l	100
17) Allyl chloride	2.71	41	63500	17.886 ug/l	94
18) Methylene Chloride	2.84	84	51524	18.687 ug/l	97
19) trans-1,2-Dichloroethene	3.14	96	50480	18.319 ug/l	96
20) Diisopropyl ether	3.82	45	127299	19.322 ug/l	95
21) 1,1-Dichloroethane	3.67	63	85902	19.076 ug/l	99
22) cis-1,2-Dichloroethene	4.56	96	58770	18.837 ug/l	98
23) tert-Butyl Alcohol	3.01	59	66475	95.654 ug/l	# 100
24) Methyl tert-Butyl Ether	3.17	73	144776	19.162 ug/l	99
25) Chloroform	5.18	83	93223	19.503 ug/l	96
26) Cyclohexane	5.55	56	67562	18.637 ug/l	# 99
29) 1,1-Dichloropropene	5.77	75	68412	18.505 ug/l	98
30) 2-Butanone	4.64	43	177737	96.478 ug/l	99
31) 2,2-Dichloropropane	4.55	77	66339	15.233 ug/l	97
32) 1,1,1-Trichloroethane	5.46	97	84067	18.736 ug/l	99
33) Carbon Tetrachloride	5.76	117	75879	18.452 ug/l	97
34) Benzene	6.11	78	209075	19.083 ug/l	97
35) Methacrylonitrile	5.00	41	36732	19.267 ug/l	96
36) 1,2-Dichloroethane	6.17	62	70802	19.659 ug/l	100
37) Trichloroethene	7.19	130	57327	17.830 ug/l	88
38) Methylcyclohexane	7.44	83	75838	17.993 ug/l	97
39) 1,2-Dichloropropane	7.49	63	50944	19.011 ug/l	98
40) Dibromomethane	7.63	93	36839	18.716 ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	76828	19.176	ug/l	98
42) Vinyl Acetate	3.79	43	628995	95.322	ug/l	99
43) Ethyl Acetate	4.79	43	69240	18.160	ug/l	98
44) Isopropyl Acetate	6.42	43	117052	19.118	ug/l	# 100
45) 1,4-Dioxane	7.71	88	24712	378.186	ug/l	97
46) Methyl methacrylate	7.74	41	54476	19.137	ug/l	98
47) n-amyl Acetate	10.88	43	94282	18.436	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	83591	18.271	ug/l	97
49) cis-1,3-Dichloropropene	8.42	75	89276	18.351	ug/l	97
50) 1,1,2-Trichloroethane	9.20	97	54306	19.227	ug/l	98
51) Ethyl methacrylate	9.16	69	84311	18.966	ug/l	99
52) 1,3-Dichloropropane	9.35	76	91486	19.629	ug/l	99
53) Dibromochloromethane	9.57	129	62330	18.553	ug/l	98
54) 1,2-Dibromoethane	9.65	107	59735	19.239	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	219925	93.783	ug/l	99
56) Bromoform	10.84	173	45841	17.676	ug/l	100
58) 4-Methyl-2-Pentanone	8.62	43	351758	95.559	ug/l	100
59) 2-Hexanone	9.47	43	265825	94.312	ug/l	99
61) Tetrachloroethene	9.32	164	51059	18.000	ug/l	99
62) Toluene	8.76	91	233908	18.924	ug/l	99
64) Chlorobenzene	10.12	112	146181	18.592	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.20	131	56006	18.352	ug/l	98
66) Ethyl Benzene	10.23	91	255978	18.686	ug/l	99
67) m/p-Xylenes	10.34	106	196213	36.559	ug/l	98
68) o-Xylene	10.68	106	95413	18.798	ug/l	100
69) Styrene	10.70	104	158369	18.151	ug/l	99
70) Isopropylbenzene	11.00	105	249535	18.504	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	78991	18.805	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	71748m	18.281	ug/l	
73) Bromobenzene	11.24	156	61549	17.725	ug/l	96
74) n-propylbenzene	11.34	91	276204	17.980	ug/l	100
75) 2-Chlorotoluene	11.40	91	164568	18.533	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	205146	18.165	ug/l	99
77) t-1,4-Dichloro-2-butene	11.06	75	28647	16.859	ug/l	96
78) 4-Chlorotoluene	11.49	91	189295	18.106	ug/l	98
79) tert-butylbenzene	11.76	119	210932	18.440	ug/l	98
80) 1,2,4-Trimethylbenzene	11.79	105	206830	18.380	ug/l	100
81) sec-Butylbenzene	11.93	105	239139	18.231	ug/l	99
82) p-Isopropyltoluene	12.05	119	216190	17.681	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	108334	17.536	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	112053	17.994	ug/l	100
85) n-Butylbenzene	12.37	91	183506	16.771	ug/l	99
86) Hexachloroethane	12.58	117	36476	17.584	ug/l	97
87) 1,2-Dichlorobenzene	12.37	146	107202	17.927	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	18732	18.420	ug/l	93
89) 1,2,4-Trichlorobenzene	13.63	180	71490	16.371	ug/l	99
90) Hexachlorobutadiene	13.76	225	29695	16.279	ug/l	96
91) Naphthalene	13.82	128	256410	18.005	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	70151	16.475	ug/l	98

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

