

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120820\
 Data File : VX019757.D
 Acq On : 08 Dec 2020 10:56
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 12/10/2020 10:17:49 AM

Quant Time: Dec 09 05:57:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X120820W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Dec 09 05:54:44 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.971	128	62472	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.824	114	335438	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.092	117	306368	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.025	65	130044	30.04	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.13%			
60) 4-Bromofluorobenzene	11.116	95	154830	30.09	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.30%			
63) Toluene-d8	8.690	98	412072	30.71	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.37%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.185	85	68759	20.71	ug/l	100
3) Chloromethane	1.313	50	73069	20.62	ug/l	100
4) Vinyl Chloride	1.392	62	83083	20.27	ug/l	100
5) Bromomethane	1.624	94	48679	30.68	ug/l	100
6) Chloroethane	1.709	64	52099	20.15	ug/l	100
7) Trichlorofluoromethane	1.916	101	117488	20.34	ug/l	100
8) Diethyl Ether	2.166	74	49548	20.66	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.368	101	68475	20.61	ug/l	100
10) 1,1-Dichloroethene	2.355	96	67530	20.03	ug/l	100
11) Methyl Iodide	2.489	142	81884	18.58	ug/l	100
12) Methyl Acetate	2.746	43	86615	19.73	ug/l	100
13) Acrolein	2.270	56	57796	92.90	ug/l	100
14) Acrylonitrile	3.111	53	209409	98.12	ug/l	100
15) Acetone	2.416	58	63669	100.26	ug/l	100
16) Carbon Disulfide	2.550	76	182353	19.76	ug/l	100
17) Allyl chloride	2.703	41	110124	19.84	ug/l	100
18) Methylene Chloride	2.831	84	84232	20.25	ug/l	100
19) trans-1,2-Dichloroethene	3.142	96	78663	20.11	ug/l	100
20) Diisopropyl ether	3.818	45	234055	20.32	ug/l	100
21) 1,1-Dichloroethane	3.666	63	140755	20.41	ug/l	100
22) cis-1,2-Dichloroethene	4.556	96	90489	20.01	ug/l	100
23) tert-Butyl Alcohol	3.002	59	91908	424.19	ug/l #	100
24) Methyl tert-Butyl Ether	3.160	73	249185	20.30	ug/l	100
25) Chloroform	5.172	83	145363	20.43	ug/l	100
26) Cyclohexane	5.544	56	118458	20.01	ug/l #	100
29) 1,1-Dichloropropene	5.763	75	106822	20.52	ug/l	100
30) 2-Butanone	4.623	43	275009	99.70	ug/l	100
31) 2,2-Dichloropropane	4.544	77	120806	20.56	ug/l	100
32) 1,1,1-Trichloroethane	5.458	97	123927	20.55	ug/l	100
33) Carbon Tetrachloride	5.751	117	106537	20.54	ug/l	100
34) Benzene	6.105	78	328399	20.62	ug/l	100
35) Methacrylonitrile	4.995	41	57723	20.24	ug/l	100
36) 1,2-Dichloroethane	6.153	62	112402	20.54	ug/l	100
37) Trichloroethene	7.184	130	84353	20.18	ug/l	100
38) Methylcyclohexane	7.434	83	126165	20.37	ug/l	100
39) 1,2-Dichloropropane	7.482	63	81444	20.34	ug/l	100
40) Dibromomethane	7.635	93	55320	20.21	ug/l	100
41) Bromodichloromethane	7.873	83	110219	20.25	ug/l	100
42) Vinyl Acetate	3.776	43	991292	102.58	ug/l	100
43) Ethyl Acetate	4.782	43	104605	20.01	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Isopropyl Acetate	6.403	43	171232	20.12	ug/l	100
45) 1,4-Dioxane	7.708	88	41205	400.14	ug/l	100
46) Methyl methacrylate	7.739	41	83803	19.99	ug/l	100
47) n-amyl Acetate	10.878	43	141002	19.34	ug/l	100
48) t-1,3-Dichloropropene	9.019	75	121353	20.03	ug/l	100
49) cis-1,3-Dichloropropene	8.409	75	134361	20.27	ug/l	100
50) 1,1,2-Trichloroethane	9.196	97	83097	20.35	ug/l	100
51) Ethyl methacrylate	9.153	69	123376	19.69	ug/l	100
52) 1,3-Dichloropropane	9.348	76	140276	20.41	ug/l	100
53) Dibromochloromethane	9.561	129	85913	19.96	ug/l	100
54) 1,2-Dibromoethane	9.653	107	89057	20.59	ug/l	100
55) 2-Chloroethyl vinyl ether	8.287	63	337245	104.02	ug/l	100
56) Bromoform	10.842	173	62699	19.57	ug/l	100
58) 4-Methyl-2-Pentanone	8.616	43	528573	100.98	ug/l	100
59) 2-Hexanone	9.470	43	406203	99.43	ug/l	100
61) Tetrachloroethene	9.318	164	75704	20.95	ug/l	100
62) Toluene	8.763	91	352681	20.85	ug/l	100
64) Chlorobenzene	10.116	112	219228	20.66	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.201	131	81134	20.62	ug/l	100
66) Ethyl Benzene	10.232	91	392888	20.68	ug/l	100
67) m/p-Xylenes	10.342	106	297367	41.44	ug/l	100
68) o-Xylene	10.677	106	142864	20.51	ug/l	100
69) Styrene	10.695	104	242232	20.46	ug/l	100
70) Isopropylbenzene	11.000	105	385680	20.78	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.250	83	131561	20.48	ug/l	100
72) 1,2,3-Trichloropropane	11.274	75	122851m	20.49	ug/l	
73) Bromobenzene	11.238	156	96373	20.40	ug/l	100
74) n-propylbenzene	11.342	91	440627	20.53	ug/l	100
75) 2-Chlorotoluene	11.403	91	265811	20.40	ug/l	100
76) 1,3,5-Trimethylbenzene	11.488	105	322263	20.48	ug/l	100
77) t-1,4-Dichloro-2-butene	11.055	75	41557	19.20	ug/l	100
78) 4-Chlorotoluene	11.494	91	308232	20.46	ug/l	100
79) tert-butylbenzene	11.756	119	303454	19.70	ug/l	100
80) 1,2,4-Trimethylbenzene	11.787	105	322552	20.42	ug/l	100
81) sec-Butylbenzene	11.927	105	366136	20.54	ug/l	100
82) p-Isopropyltoluene	12.049	119	329384	20.16	ug/l	100
83) 1,3-Dichlorobenzene	12.006	146	171009	20.07	ug/l	100
84) 1,4-Dichlorobenzene	12.079	146	174743	20.38	ug/l	100
85) n-Butylbenzene	12.372	91	288159	20.06	ug/l	100
86) Hexachloroethane	12.579	117	55943	19.45	ug/l	100
87) 1,2-Dichlorobenzene	12.372	146	171560	20.49	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.981	75	26677	19.09	ug/l	100
89) 1,2,4-Trichlorobenzene	13.628	180	110541	20.00	ug/l	100
90) Hexachlorobutadiene	13.768	225	48940	20.25	ug/l	100
91) Naphthalene	13.817	128	355249	19.63	ug/l	100
92) 1,2,3-Trichlorobenzene	14.000	180	107919	19.89	ug/l	100

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

