

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120820\
 Data File : VX019761.D
 Acq On : 08 Dec 2020 15:30
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICV020

Manual Integrations
 APPROVED

MMDadoda
 12/10/2020 10:17:56 AM

Quant Time: Dec 09 06:16:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X120820W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Dec 09 06:09:21 2020
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.977	128	54850	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.824	114	302522	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.092	117	276781	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.025	65	115791	30.46	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	101.53%		
60) 4-Bromofluorobenzene	11.116	95	136170	29.30	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.67%		
63) Toluene-d8	8.689	98	363484	29.98	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.93%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	57993	19.89	ug/l	95
3) Chloromethane	1.313	50	63956	20.56	ug/l	100
4) Vinyl Chloride	1.392	62	73554	20.44	ug/l	100
5) Bromomethane	1.624	94	23991	17.22	ug/l	98
6) Chloroethane	1.703	64	46763	20.60	ug/l	97
7) Trichlorofluoromethane	1.910	101	104865	20.68	ug/l	99
8) Diethyl Ether	2.166	74	43553	20.69	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.361	101	60016	20.58	ug/l	100
10) 1,1-Dichloroethene	2.355	96	59471	20.09	ug/l	99
11) Methyl Iodide	2.489	142	68055	17.58	ug/l	96
12) Methyl Acetate	2.745	43	75502	19.59	ug/l	99
13) Acrolein	2.270	56	45161	82.68	ug/l	97
14) Acrylonitrile	3.111	53	193399	103.21	ug/l	100
15) Acetone	2.416	58	55624	99.76	ug/l	98
16) Carbon Disulfide	2.550	76	163424	20.17	ug/l	99
17) Allyl chloride	2.703	41	100043	20.53	ug/l	98
18) Methylene Chloride	2.831	84	76324	20.90	ug/l	99
19) trans-1,2-Dichloroethene	3.142	96	70449	20.51	ug/l	97
20) Diisopropyl ether	3.825	45	209160	20.68	ug/l	94
21) 1,1-Dichloroethane	3.666	63	124432	20.55	ug/l	98
22) cis-1,2-Dichloroethene	4.562	96	81654	20.57	ug/l	99
23) tert-Butyl Alcohol	3.014	59	90888	103.01	ug/l #	100
24) Methyl tert-Butyl Ether	3.166	73	221600	20.56	ug/l	100
25) Chloroform	5.172	83	128449	20.56	ug/l	98
26) Cyclohexane	5.544	56	109508	21.07	ug/l #	99
29) 1,1-Dichloropropene	5.763	75	96057	20.46	ug/l	99
30) 2-Butanone	4.629	43	249668	100.36	ug/l	99
31) 2,2-Dichloropropane	4.544	77	106499	20.09	ug/l	99
32) 1,1,1-Trichloroethane	5.458	97	110326	20.29	ug/l	99
33) Carbon Tetrachloride	5.751	117	93603	20.01	ug/l	97
34) Benzene	6.111	78	295025	20.54	ug/l	99
35) Methacrylonitrile	5.001	41	51595	20.06	ug/l	98
36) 1,2-Dichloroethane	6.159	62	100645	20.40	ug/l	99
37) Trichloroethene	7.184	130	76084	20.19	ug/l	100
38) Methylcyclohexane	7.440	83	115263	20.63	ug/l	99
39) 1,2-Dichloropropane	7.488	63	74016	20.50	ug/l	98
40) Dibromomethane	7.635	93	49514	20.06	ug/l	99
41) Bromodichloromethane	7.873	83	97763	19.92	ug/l	99
42) Vinyl Acetate	3.782	43	894564	102.64	ug/l	100
43) Ethyl Acetate	4.788	43	97002	20.58	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Isopropyl Acetate	6.409	43	154195	20.09	ug/l	99
45) 1,4-Dioxane	7.714	88	36306	390.93	ug/l	97
46) Methyl methacrylate	7.745	41	76263	20.17	ug/l	99
47) n-amyl Acetate	10.878	43	128810	19.59	ug/l	100
48) t-1,3-Dichloropropene	9.019	75	107303	19.64	ug/l	98
49) cis-1,3-Dichloropropene	8.409	75	117984	19.74	ug/l	98
50) 1,1,2-Trichloroethane	9.195	97	74488	20.23	ug/l	99
51) Ethyl methacrylate	9.159	69	110687	19.58	ug/l	99
52) 1,3-Dichloropropane	9.348	76	126921	20.48	ug/l	99
53) Dibromochloromethane	9.561	129	74471	19.19	ug/l	99
54) 1,2-Dibromoethane	9.653	107	78866	20.21	ug/l	98
55) 2-Chloroethyl vinyl ether	8.287	63	257343	88.01	ug/l	99
56) Bromoform	10.842	173	52576	18.19	ug/l	95
58) 4-Methyl-2-Pentanone	8.616	43	482818	102.10	ug/l	100
59) 2-Hexanone	9.470	43	377054	102.16	ug/l	100
61) Tetrachloroethene	9.317	164	68156	20.87	ug/l	93
62) Toluene	8.763	91	321718	21.05	ug/l	99
64) Chlorobenzene	10.122	112	195446	20.39	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.201	131	70380	19.80	ug/l	98
66) Ethyl Benzene	10.232	91	356068	20.74	ug/l	100
67) m/p-Xylenes	10.342	106	265913	41.01	ug/l	99
68) o-Xylene	10.683	106	127522	20.26	ug/l	97
69) Styrene	10.695	104	215094	20.11	ug/l	99
70) Isopropylbenzene	11.000	105	344734	20.56	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.250	83	119670	20.62	ug/l	100
72) 1,2,3-Trichloropropane	11.280	75	110162m	20.34	ug/l	
73) Bromobenzene	11.238	156	84963	19.90	ug/l	99
74) n-propylbenzene	11.341	91	395398	20.39	ug/l	100
75) 2-Chlorotoluene	11.402	91	241618	20.52	ug/l	100
76) 1,3,5-Trimethylbenzene	11.488	105	290916	20.47	ug/l	99
77) t-1,4-Dichloro-2-butene	11.055	75	36075	18.45	ug/l	98
78) 4-Chlorotoluene	11.494	91	275929	20.27	ug/l	99
79) tert-butylbenzene	11.750	119	284444	20.44	ug/l	97
80) 1,2,4-Trimethylbenzene	11.793	105	289275	20.27	ug/l	99
81) sec-Butylbenzene	11.927	105	325572	20.22	ug/l	100
82) p-Isopropyltoluene	12.049	119	296622	20.09	ug/l	100
83) 1,3-Dichlorobenzene	12.006	146	153163	19.90	ug/l	99
84) 1,4-Dichlorobenzene	12.079	146	156089	20.15	ug/l	99
85) n-Butylbenzene	12.372	91	256773	19.78	ug/l	100
86) Hexachloroethane	12.579	117	49181	18.93	ug/l	99
87) 1,2-Dichlorobenzene	12.372	146	152760	20.20	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.981	75	24647	19.52	ug/l	98
89) 1,2,4-Trichlorobenzene	13.628	180	98028	19.63	ug/l	99
90) Hexachlorobutadiene	13.762	225	46365	21.23	ug/l	94
91) Naphthalene	13.817	128	321768	19.68	ug/l	100
92) 1,2,3-Trichlorobenzene	13.999	180	97264	19.84	ug/l	99

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

