

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
 Data File : VX019473.D
 Acq On : 19 Nov 2020 18:08
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX112020

Manual Integrations
 APPROVED

MMDadoda
 11/20/2020 12:25:11 PM

Quant Time: Nov 20 01:58:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 20 01:06:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	48640	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	270312	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	252745	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	105905	30.29	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.97%
60) 4-Bromofluorobenzene	11.12	95	125162	30.36	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.20%
63) Toluene-d8	8.70	98	332638	29.53	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	50311	18.609	ug/l 99
3) Chloromethane	1.31	50	59246	19.709	ug/l 99
4) Vinyl Chloride	1.39	62	62264	18.794	ug/l 96
5) Bromomethane	1.62	94	26141	20.721	ug/l 99
6) Chloroethane	1.70	64	19066	20.241	ug/l 99
7) Trichlorofluoromethane	1.90	101	85885	18.195	ug/l 99
8) Diethyl Ether	2.17	74	34991	18.171	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.36	101	48336	18.084	ug/l 99
10) 1,1-Dichloroethene	2.35	96	48808	18.125	ug/l 94
11) Methyl Iodide	2.48	142	53590	15.711	ug/l 99
12) Methyl Acetate	2.75	43	61729	19.118	ug/l 95
13) Acrolein	2.28	56	42879	88.813	ug/l 100
14) Acrylonitrile	3.12	53	151227	96.024	ug/l 100
15) Acetone	2.43	58	42078	92.013	ug/l 94
16) Carbon Disulfide	2.54	76	140238	19.675	ug/l 98
17) Allyl chloride	2.70	41	76266	18.840	ug/l 96
18) Methylene Chloride	2.83	84	59572	18.291	ug/l 95
19) trans-1,2-Dichloroethene	3.14	96	57341	19.066	ug/l 91
20) Diisopropyl ether	3.82	45	161725	18.606	ug/l 96
21) 1,1-Dichloroethane	3.67	63	96657	18.274	ug/l 98
22) cis-1,2-Dichloroethene	4.56	96	65040	18.685	ug/l 100
23) tert-Butyl Alcohol	3.04	59	69003	102.020	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	174261	18.821	ug/l 100
25) Chloroform	5.17	83	102462	18.443	ug/l 97
26) Cyclohexane	5.54	56	82970	18.324	ug/l # 99
29) 1,1-Dichloropropene	5.76	75	75751	18.239	ug/l 99
30) 2-Butanone	4.64	43	196712	93.759	ug/l 99
31) 2,2-Dichloropropane	4.54	77	82513	17.675	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	87233	17.903	ug/l 99
33) Carbon Tetrachloride	5.75	117	73360	17.741	ug/l 99
34) Benzene	6.11	78	233345	18.083	ug/l 99
35) Methacrylonitrile	5.00	41	41172	19.028	ug/l 98
36) 1,2-Dichloroethane	6.16	62	79089	17.707	ug/l 99
37) Trichloroethene	7.18	130	62092	18.150	ug/l 99
38) Methylcyclohexane	7.43	83	89673	17.865	ug/l 98
39) 1,2-Dichloropropane	7.49	63	58081	18.229	ug/l 97
40) Dibromomethane	7.63	93	40815	18.416	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	76955	17.668	ug/l	98
42) Vinyl Acetate	3.78	43	693360	91.876	ug/l	99
43) Ethyl Acetate	4.79	43	75717	18.750	ug/l	99
44) Isopropyl Acetate	6.42	43	120576	18.397	ug/l	100
45) 1,4-Dioxane	7.72	88	28652	390.000	ug/l	98
46) Methyl methacrylate	7.74	41	59688	18.607	ug/l	96
47) n-amyl Acetate	10.88	43	100189	18.318	ug/l	98
48) t-1,3-Dichloropropene	9.02	75	86640	18.319	ug/l	98
49) cis-1,3-Dichloropropene	8.41	75	94676	18.122	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	60494	18.226	ug/l	95
51) Ethyl methacrylate	9.16	69	88364	18.603	ug/l	99
52) 1,3-Dichloropropane	9.35	76	101429	18.298	ug/l	98
53) Dibromochloromethane	9.56	129	60435	18.268	ug/l	98
54) 1,2-Dibromoethane	9.65	107	63332	18.456	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	245238	93.830	ug/l	99
56) Bromoform	10.84	173	41968	17.902	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	379485	93.984	ug/l	99
59) 2-Hexanone	9.48	43	288550	92.654	ug/l	99
61) Tetrachloroethene	9.32	164	59691	18.123	ug/l	97
62) Toluene	8.76	91	255193	18.051	ug/l	99
64) Chlorobenzene	10.12	112	160685	18.662	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.20	131	56760	17.907	ug/l	99
66) Ethyl Benzene	10.23	91	281133	18.149	ug/l	96
67) m/p-Xylenes	10.34	106	215014	37.062	ug/l	100
68) o-Xylene	10.68	106	102913	18.715	ug/l	98
69) Styrene	10.70	104	173119	18.477	ug/l	99
70) Isopropylbenzene	11.00	105	277074	18.587	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	92126	18.102	ug/l	97
72) 1,2,3-Trichloropropane	11.28	75	84366m	18.440	ug/l	
73) Bromobenzene	11.24	156	68027	18.296	ug/l	98
74) n-propylbenzene	11.34	91	321020	18.520	ug/l	98
75) 2-Chlorotoluene	11.40	91	194106	18.677	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	232861	18.435	ug/l	98
77) t-1,4-Dichloro-2-butene	11.06	75	28109	17.926	ug/l	97
78) 4-Chlorotoluene	11.49	91	224952	18.518	ug/l	100
79) tert-butylbenzene	11.76	119	222711	18.382	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	233131	18.366	ug/l	100
81) sec-Butylbenzene	11.93	105	267053	18.362	ug/l	99
82) p-Isopropyltoluene	12.05	119	241245	18.241	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	123345	17.984	ug/l	97
84) 1,4-Dichlorobenzene	12.08	146	130160	18.755	ug/l	99
85) n-Butylbenzene	12.37	91	213543	17.694	ug/l	99
86) Hexachloroethane	12.58	117	38038	17.088	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	123490	18.210	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	19232	17.979	ug/l	99
89) 1,2,4-Trichlorobenzene	13.63	180	84871	18.752	ug/l	98
90) Hexachlorobutadiene	13.76	225	36542	17.961	ug/l	94
91) Naphthalene	13.82	128	268280	18.634	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	83253	18.399	ug/l	99

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

