

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072720\
 Data File : VX017612.D
 Acq On : 27 Jul 2020 12:40
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX072720

Manual Integrations
 APPROVED

MMDadoda
 7/28/2020 10:31:21 AM

Quant Time: Jul 27 16:22:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072720W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 27 11:38:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	111270	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	589328	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	561903	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	256090	29.95	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.83%
60) 4-Bromofluorobenzene	11.12	95	287765	30.24	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.80%
63) Toluene-d8	8.70	98	726255	29.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	188552	22.062 ug/l	94
3) Chloromethane	1.32	50	166811	20.177 ug/l	96
4) Vinyl Chloride	1.39	62	151310	18.389 ug/l	100
5) Bromomethane	1.63	94	102635	20.198 ug/l	93
6) Chloroethane	1.72	64	84378	18.198 ug/l	96
7) Trichlorofluoromethane	1.92	101	226347	17.766 ug/l	100
8) Diethyl Ether	2.17	74	66169	18.015 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.37	101	97630	16.927 ug/l	98
10) 1,1-Dichloroethene	2.36	96	87778	16.399 ug/l	96
11) Methyl Iodide	2.49	142	109239	16.212 ug/l	97
12) Methyl Acetate	2.75	43	156297	19.200 ug/l	98
13) Acrolein	2.27	56	111355	92.320 ug/l	99
14) Acrylonitrile	3.11	53	334449	98.270 ug/l	99
15) Acetone	2.42	58	85068	91.504 ug/l	98
16) Carbon Disulfide	2.55	76	263121	18.542 ug/l	100
17) Allyl chloride	2.70	41	179472	17.637 ug/l	95
18) Methylene Chloride	2.83	84	114093	18.166 ug/l	96
19) trans-1,2-Dichloroethene	3.14	96	106284	18.582 ug/l	98
20) Diisopropyl ether	3.82	45	404311	19.842 ug/l	94
21) 1,1-Dichloroethane	3.67	63	208939	19.158 ug/l	98
22) cis-1,2-Dichloroethene	4.57	96	131282	19.426 ug/l	98
23) tert-Butyl Alcohol	3.01	59	155180	97.273 ug/l #	100
24) Methyl tert-Butyl Ether	3.17	73	403915	18.962 ug/l	97
25) Chloroform	5.17	83	224310	18.517 ug/l	92
26) Cyclohexane	5.54	56	195822	20.188 ug/l #	97
29) 1,1-Dichloropropene	5.76	75	154379	18.425 ug/l	99
30) 2-Butanone	4.63	43	483195	101.868 ug/l	100
31) 2,2-Dichloropropane	4.54	77	189976	17.585 ug/l	98
32) 1,1,1-Trichloroethane	5.46	97	204292	18.036 ug/l	97
33) Carbon Tetrachloride	5.75	117	186682	17.831 ug/l	95
34) Benzene	6.11	78	444960	18.783 ug/l	99
35) Methacrylonitrile	5.01	41	101323	19.197 ug/l	95
36) 1,2-Dichloroethane	6.16	62	189455	18.819 ug/l	99
37) Trichloroethene	7.18	130	140957	19.384 ug/l	98
38) Methylcyclohexane	7.44	83	192940	18.196 ug/l	97
39) 1,2-Dichloropropane	7.49	63	125577	18.985 ug/l	99
40) Dibromomethane	7.63	93	89312	19.020 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	192056	18.469	ug/l	94
42) Vinyl Acetate	3.78	43	1514944	96.700	ug/l	100
43) Ethyl Acetate	4.79	43	171192	19.591	ug/l	99
44) Isopropyl Acetate	6.41	43	291232	19.192	ug/l	98
45) 1,4-Dioxane	7.71	88	63854	405.582	ug/l	96
46) Methyl methacrylate	7.74	41	149831	19.438	ug/l	95
47) n-amyl Acetate	10.88	43	263580	19.942	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	210959	18.623	ug/l	100
49) cis-1,3-Dichloropropene	8.42	75	221082	18.242	ug/l	93
50) 1,1,2-Trichloroethane	9.20	97	136507	20.291	ug/l	98
51) Ethyl methacrylate	9.16	69	199706	19.687	ug/l	95
52) 1,3-Dichloropropane	9.35	76	217605	19.841	ug/l	99
53) Dibromochloromethane	9.56	129	164285	19.228	ug/l	98
54) 1,2-Dibromoethane	9.65	107	139233	19.029	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	507429	93.630	ug/l	99
56) Bromoform	10.84	173	124404	19.076	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	970985	96.820	ug/l	99
59) 2-Hexanone	9.47	43	738188	104.589	ug/l	98
61) Tetrachloroethene	9.32	164	143034	18.682	ug/l	97
62) Toluene	8.76	91	514311	18.418	ug/l	99
64) Chlorobenzene	10.12	112	351741	19.273	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.20	131	146984	19.256	ug/l	98
66) Ethyl Benzene	10.23	91	584815	18.971	ug/l	99
67) m/p-Xylenes	10.34	106	458717	39.718	ug/l	96
68) o-Xylene	10.68	106	220674	19.234	ug/l	96
69) Styrene	10.70	104	390096	19.502	ug/l	99
70) Isopropylbenzene	11.00	105	610720	18.224	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	190578	20.404	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	193350m	20.647	ug/l	
73) Bromobenzene	11.24	156	167335	18.905	ug/l	98
74) n-propylbenzene	11.34	91	715528	18.944	ug/l	100
75) 2-Chlorotoluene	11.40	91	426654	18.773	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	536919	19.353	ug/l	99
77) t-1,4-Dichloro-2-butene	11.05	75	72014	18.899	ug/l	98
78) 4-Chlorotoluene	11.49	91	511034	19.290	ug/l	100
79) tert-butylbenzene	11.76	119	513518	18.888	ug/l	97
80) 1,2,4-Trimethylbenzene	11.79	105	542218	18.936	ug/l	99
81) sec-Butylbenzene	11.93	105	601289	18.537	ug/l	100
82) p-Isopropyltoluene	12.05	119	574707	19.089	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	300516	18.937	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	301529	19.096	ug/l	99
85) n-Butylbenzene	12.37	91	513641	17.871	ug/l	99
86) Hexachloroethane	12.58	117	106411	16.978	ug/l	96
87) 1,2-Dichlorobenzene	12.38	146	287947	18.098	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.98	75	49299	18.688	ug/l	97
89) 1,2,4-Trichlorobenzene	13.63	180	210499	18.031	ug/l	97
90) Hexachlorobutadiene	13.77	225	94651	17.897	ug/l	97
91) Naphthalene	13.82	128	627728	18.223	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	213568	19.172	ug/l	98

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

