

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101520\
 Data File : VX018938.D
 Acq On : 15 Oct 2020 17:05
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX101520

Manual Integrations
 APPROVED

apatel
 10/16/2020 2:11:36 PM

Quant Time: Oct 16 02:38:32 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	47200	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	262931	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	233484	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	91182	30.28	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.93%
60) 4-Bromofluorobenzene	11.12	95	107208	29.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.30%
63) Toluene-d8	8.70	98	302716	29.68	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	48581	21.709	ug/l 100
3) Chloromethane	1.31	50	52987	20.935	ug/l 96
4) Vinyl Chloride	1.39	62	66753	21.491	ug/l 97
5) Bromomethane	1.63	94	51590	28.048	ug/l 92
6) Chloroethane	1.72	64	45097	21.051	ug/l 97
7) Trichlorofluoromethane	1.92	101	105011	21.476	ug/l 98
8) Diethyl Ether	2.17	74	41573	21.599	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	59352	21.831	ug/l 98
10) 1,1-Dichloroethene	2.36	96	60662	21.468	ug/l 98
11) Methyl Iodide	2.49	142	69014	20.570	ug/l 96
12) Methyl Acetate	2.75	43	60296	21.761	ug/l 99
13) Acrolein	2.27	56	59246	111.816	ug/l 98
14) Acrylonitrile	3.11	53	140513	108.998	ug/l 99
15) Acetone	2.42	58	50242	115.789	ug/l 98
16) Carbon Disulfide	2.55	76	151347	21.840	ug/l 99
17) Allyl chloride	2.70	41	77151	21.041	ug/l 96
18) Methylene Chloride	2.83	84	61466	21.586	ug/l 97
19) trans-1,2-Dichloroethene	3.14	96	61137	21.483	ug/l 99
20) Diisopropyl ether	3.82	45	146340	21.508	ug/l 88
21) 1,1-Dichloroethane	3.67	63	99637	21.425	ug/l 100
22) cis-1,2-Dichloroethene	4.56	96	69727	21.640	ug/l 98
23) tert-Butyl Alcohol	3.01	59	77676	108.227	ug/l 100
24) Methyl tert-Butyl Ether	3.17	73	170920	21.905	ug/l 100
25) Chloroform	5.17	83	106086	21.490	ug/l 99
26) Cyclohexane	5.54	56	78904	21.076	ug/l # 99
29) 1,1-Dichloropropene	5.77	75	80191	21.036	ug/l 99
30) 2-Butanone	4.64	43	202031	106.350	ug/l 99
31) 2,2-Dichloropropane	4.55	77	94536	21.051	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	96999	20.965	ug/l 100
33) Carbon Tetrachloride	5.75	117	89830	21.185	ug/l 93
34) Benzene	6.11	78	243685	21.570	ug/l 98
35) Methacrylonitrile	5.01	41	42053	21.391	ug/l 99
36) 1,2-Dichloroethane	6.16	62	81845	22.038	ug/l 99
37) Trichloroethene	7.18	130	70124	21.150	ug/l 96
38) Methylcyclohexane	7.44	83	94221	21.679	ug/l 98
39) 1,2-Dichloropropane	7.49	63	59308	21.464	ug/l 99
40) Dibromomethane	7.63	93	44373	21.862	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	88159	21.338	ug/l	97
42) Vinyl Acetate	3.78	43	729568	107.221	ug/l	99
43) Ethyl Acetate	4.79	43	81829	20.813	ug/l	99
44) Isopropyl Acetate	6.41	43	135572	21.473	ug/l #	100
45) 1,4-Dioxane	7.71	88	29754	441.582	ug/l	98
46) Methyl methacrylate	7.74	41	63558	21.653	ug/l	98
47) n-amyl Acetate	10.88	43	111398	21.124	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	101941	21.608	ug/l	98
49) cis-1,3-Dichloropropene	8.42	75	107644	21.458	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	63773	21.897	ug/l	98
51) Ethyl methacrylate	9.16	69	99784	21.768	ug/l	97
52) 1,3-Dichloropropane	9.35	76	105059	21.860	ug/l	100
53) Dibromochloromethane	9.56	129	75367	21.756	ug/l	98
54) 1,2-Dibromoethane	9.65	107	69738	21.782	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	241341	99.804	ug/l	99
56) Bromoform	10.84	173	55650	20.809	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	403976	108.426	ug/l	100
59) 2-Hexanone	9.47	43	304805	106.844	ug/l	99
61) Tetrachloroethene	9.32	164	61192	21.313	ug/l	97
62) Toluene	8.76	91	267452	21.378	ug/l	100
64) Chlorobenzene	10.12	112	170160	21.382	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.20	131	66651	21.578	ug/l	99
66) Ethyl Benzene	10.23	91	298731	21.545	ug/l	99
67) m/p-Xylenes	10.34	106	228279	42.023	ug/l	99
68) o-Xylene	10.68	106	109099	21.236	ug/l	99
69) Styrene	10.70	104	185790	21.038	ug/l	100
70) Isopropylbenzene	11.00	105	291344	21.344	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	90692	21.331	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	84975m	21.392	ug/l	
73) Bromobenzene	11.24	156	73296	20.855	ug/l	97
74) n-propylbenzene	11.34	91	326754	21.016	ug/l	99
75) 2-Chlorotoluene	11.40	91	187926	20.910	ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	238935	20.903	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	35444	20.609	ug/l	96
78) 4-Chlorotoluene	11.49	91	220813	20.867	ug/l	99
79) tert-butylbenzene	11.76	119	242616	20.955	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	238220	20.916	ug/l	99
81) sec-Butylbenzene	11.93	105	278042	20.943	ug/l	100
82) p-Isopropyltoluene	12.05	119	259113	20.937	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	130086	20.805	ug/l	98
84) 1,4-Dichlorobenzene	12.08	146	133352	21.157	ug/l	98
85) n-Butylbenzene	12.37	91	226273	20.432	ug/l	100
86) Hexachloroethane	12.58	117	43523	20.729	ug/l	99
87) 1,2-Dichlorobenzene	12.37	146	125269	20.697	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	21802	21.182	ug/l	97
89) 1,2,4-Trichlorobenzene	13.63	180	88797	20.090	ug/l	97
90) Hexachlorobutadiene	13.77	225	38559	20.884	ug/l	98
91) Naphthalene	13.82	128	304325	21.113	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	89480	20.762	ug/l	99

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

