

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101520\
 Data File : VX018934.D
 Acq On : 15 Oct 2020 14:02
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

apatel
 10/16/2020 2:11:29 PM

Quant Time: Oct 15 14:45:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 15 14:34:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	54907	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	306587	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.09	117	284481	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	106421	25.59	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	85.30%
60) 4-Bromofluorobenzene	11.12	95	132919	27.51	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.70%
63) Toluene-d8	8.70	98	361185	29.15	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	47110	16.613	ug/l 100
3) Chloromethane	1.31	50	58300	18.832	ug/l 100
4) Vinyl Chloride	1.39	62	66236	20.013	ug/l 100
5) Bromomethane	1.63	94	44022	20.012	ug/l 100
6) Chloroethane	1.71	64	44399	21.705	ug/l 100
7) Trichlorofluoromethane	1.92	101	103334	18.698	ug/l 100
8) Diethyl Ether	2.17	74	40494	22.295	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	58278	20.316	ug/l 100
10) 1,1-Dichloroethene	2.36	96	59453	20.917	ug/l 100
11) Methyl Iodide	2.49	142	65825	20.693	ug/l 100
12) Methyl Acetate	2.75	43	57782	16.271	ug/l 100
13) Acrolein	2.27	56	50486	145.961	ug/l 100
14) Acrylonitrile	3.11	53	135815	84.100	ug/l 100
15) Acetone	2.42	58	51323	110.154	ug/l 100
16) Carbon Disulfide	2.55	76	146628	18.343	ug/l 100
17) Allyl chloride	2.70	41	77058	16.045	ug/l 100
18) Methylene Chloride	2.83	84	60500	18.728	ug/l 100
19) trans-1,2-Dichloroethene	3.14	96	59697	19.247	ug/l 100
20) Diisopropyl ether	3.82	45	143452	15.327	ug/l 100
21) 1,1-Dichloroethane	3.67	63	98543	17.799	ug/l 100
22) cis-1,2-Dichloroethene	4.56	96	67175	19.601	ug/l 100
23) tert-Butyl Alcohol	3.01	59	78601	105.681	ug/l 100
24) Methyl tert-Butyl Ether	3.17	73	166977	17.247	ug/l 100
25) Chloroform	5.17	83	104569	17.709	ug/l 100
26) Cyclohexane	5.54	56	79538	17.664	ug/l # 100
29) 1,1-Dichloropropene	5.77	75	80535	17.374	ug/l 100
30) 2-Butanone	4.63	43	199180	80.110	ug/l 100
31) 2,2-Dichloropropane	4.55	77	94995	17.061	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	97112	16.296	ug/l 100
33) Carbon Tetrachloride	5.75	117	88607	16.025	ug/l 100
34) Benzene	6.11	78	237840	17.950	ug/l 100
35) Methacrylonitrile	5.00	41	41536	15.816	ug/l 100
36) 1,2-Dichloroethane	6.16	62	78734	14.858	ug/l 100
37) Trichloroethene	7.18	130	69926	18.089	ug/l 100
38) Methylcyclohexane	7.44	83	91408	18.126	ug/l 100
39) 1,2-Dichloropropane	7.49	63	57832	16.577	ug/l 100
40) Dibromomethane	7.63	93	42871	16.934	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.87	83	87048	16.599	ug/l	100
42) Vinyl Acetate	3.78	43	711369	77.180	ug/l	100
43) Ethyl Acetate	4.79	43	79818	16.119	ug/l	100
44) Isopropyl Acetate	6.41	43	130950	16.234	ug/l #	100
45) 1,4-Dioxane	7.71	88	29660	415.973	ug/l	100
46) Methyl methacrylate	7.74	41	62101	15.670	ug/l	100
47) n-amyl Acetate	10.88	43	115841	16.260	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	100531	17.570	ug/l	100
49) cis-1,3-Dichloropropene	8.41	75	107448	17.898	ug/l	100
50) 1,1,2-Trichloroethane	9.20	97	63603	17.829	ug/l	100
51) Ethyl methacrylate	9.16	69	97897	18.543	ug/l	100
52) 1,3-Dichloropropane	9.35	76	103891	17.562	ug/l	100
53) Dibromochloromethane	9.56	129	76024	17.127	ug/l	100
54) 1,2-Dibromoethane	9.65	107	69501	17.684	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	259676	94.517	ug/l	100
56) Bromoform	10.84	173	56379	16.683	ug/l	100
58) 4-Methyl-2-Pentanone	8.62	43	394682	82.810	ug/l	100
59) 2-Hexanone	9.47	43	307822	84.659	ug/l	100
61) Tetrachloroethene	9.32	164	61977	17.702	ug/l	100
62) Toluene	8.76	91	268969	18.742	ug/l	100
64) Chlorobenzene	10.12	112	175821	19.029	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.20	131	67536	18.157	ug/l	100
66) Ethyl Benzene	10.23	91	306959	19.183	ug/l	100
67) m/p-Xylenes	10.34	106	237743	38.819	ug/l	100
68) o-Xylene	10.68	106	112738	19.357	ug/l	100
69) Styrene	10.70	104	192573	19.092	ug/l	100
70) Isopropylbenzene	11.00	105	302888	18.906	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	90512	17.616	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	86889m	17.645	ug/l	
73) Bromobenzene	11.24	156	77698	17.941	ug/l	100
74) n-propylbenzene	11.34	91	345383	18.414	ug/l	100
75) 2-Chlorotoluene	11.40	91	199160	17.702	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	252368	18.208	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	37549	19.024	ug/l	100
78) 4-Chlorotoluene	11.49	91	232528	17.371	ug/l	100
79) tert-butylbenzene	11.76	119	255047	18.934	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	249888	18.261	ug/l	100
81) sec-Butylbenzene	11.93	105	291218	18.542	ug/l	100
82) p-Isopropyltoluene	12.05	119	272542	18.597	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	133932	17.428	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	134994	17.562	ug/l	100
85) n-Butylbenzene	12.37	91	238559	18.445	ug/l	100
86) Hexachloroethane	12.58	117	45913	16.330	ug/l	100
87) 1,2-Dichlorobenzene	12.37	146	130082	17.932	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.98	75	21644	16.455	ug/l	100
89) 1,2,4-Trichlorobenzene	13.63	180	91379	18.347	ug/l	100
90) Hexachlorobutadiene	13.77	225	38554	18.531	ug/l	100
91) Naphthalene	13.82	128	304636	19.358	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	90417	18.367	ug/l	100

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

