

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032621\
 Data File : VX021526.D
 Acq On : 26 Mar 2021 11:31
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

SAM
 3/30/2021 7:12:50 PM

Quant Time: Mar 26 12:09:58 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032621W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 26 12:08:31 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.982	128	13546	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.835	114	74009	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	68315	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.029	65	37573	30.04	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.13%
60) 4-Bromofluorobenzene	11.118	95	35580	28.80	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.00%
63) Toluene-d8	8.694	98	94126	30.38	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.27%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.187	85	24871	25.94	ug/l	97
3) Chloromethane	1.311	50	21957	22.79	ug/l	97
4) Vinyl Chloride	1.393	62	18940	20.13	ug/l	100
5) Bromomethane	1.623	94	8114	15.32	ug/l	95
6) Chloroethane	1.711	64	11195	19.38	ug/l	95
7) Trichlorofluoromethane	1.911	101	28918	19.84	ug/l	97
8) Diethyl Ether	2.170	74	9083	18.70	ug/l	73
9) 1,1,2-Trichlorotrifluo...	2.364	101	15666	19.83	ug/l	96
10) 1,1-Dichloroethene	2.358	96	15221	19.93	ug/l	94
11) Methyl Iodide	2.493	142	10367	11.12	ug/l	90
12) Methyl Acetate	2.752	43	31939	24.01	ug/l #	86
13) Acrolein	2.276	56	14358	88.92	ug/l	94
14) Acrylonitrile	3.117	53	47105	98.12	ug/l	99
15) Acetone	2.423	58	12577	97.30	ug/l #	58
16) Carbon Disulfide	2.552	76	41234	18.64	ug/l	98
17) Allyl chloride	2.705	41	28834	18.09	ug/l	85
18) Methylene Chloride	2.835	84	17514	19.12	ug/l	87
19) trans-1,2-Dichloroethene	3.140	96	15953	19.03	ug/l	88
20) Diisopropyl ether	3.829	45	56802	18.34	ug/l	96
21) 1,1-Dichloroethane	3.670	63	30786	18.60	ug/l	97
22) cis-1,2-Dichloroethene	4.570	96	18445	18.95	ug/l	91
23) tert-Butyl Alcohol	3.017	59	19327	91.74	ug/l #	100
24) Methyl tert-Butyl Ether	3.170	73	53219	18.58	ug/l #	84
25) Chloroform	5.176	83	33091	19.10	ug/l	96
26) Cyclohexane	5.553	56	27051	18.42	ug/l #	89
29) 1,1-Dichloropropene	5.770	75	23472	18.98	ug/l	96
30) 2-Butanone	4.635	43	68378	98.52	ug/l #	90
31) 2,2-Dichloropropane	4.552	77	25174	18.29	ug/l	97
32) 1,1,1-Trichloroethane	5.464	97	29003	19.18	ug/l	95
33) Carbon Tetrachloride	5.753	117	25282	19.12	ug/l	98
34) Benzene	6.111	78	67514	19.08	ug/l	97
35) Methacrylonitrile	5.011	41	14665	18.75	ug/l	88
36) 1,2-Dichloroethane	6.164	62	29255	19.22	ug/l #	93
37) Trichloroethene	7.188	130	17331	18.73	ug/l	92
38) Methylcyclohexane	7.441	83	25238	18.17	ug/l	91
39) 1,2-Dichloropropane	7.488	63	17767	18.60	ug/l	98
40) Dibromomethane	7.641	93	13204	19.35	ug/l	89
41) Bromodichloromethane	7.876	83	26546	18.75	ug/l	98
42) Vinyl Acetate	3.788	43	229088	88.81	ug/l #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.794	43	26484	19.19	ug/l	100
44) Isopropyl Acetate	6.412	43	43382	18.89	ug/l #	89
45) 1,4-Dioxane	7.712	88	8588	401.27	ug/l #	92
46) Methyl methacrylate	7.747	41	23784	19.24	ug/l	82
47) n-amyl Acetate	10.883	43	36308	18.32	ug/l	94
48) t-1,3-Dichloropropene	9.024	75	25606	17.67	ug/l	100
49) cis-1,3-Dichloropropene	8.412	75	28079	18.14	ug/l #	83
50) 1,1,2-Trichloroethane	9.194	97	16956	18.69	ug/l	91
51) Ethyl methacrylate	9.159	69	24205m	17.12	ug/l	
52) 1,3-Dichloropropane	9.353	76	30144	19.08	ug/l	99
53) Dibromochloromethane	9.565	129	19094	18.27	ug/l	96
54) 1,2-Dibromoethane	9.653	107	18743	19.42	ug/l	99
55) 2-Chloroethyl vinyl ether	8.288	63	71354	94.62	ug/l	97
56) Bromoform	10.842	173	13478	18.23	ug/l	97
58) 4-Methyl-2-Pentanone	8.618	43	138334	99.58	ug/l #	88
59) 2-Hexanone	9.471	43	102529	98.08	ug/l	88
61) Tetrachloroethene	9.318	164	16427	18.53	ug/l	92
62) Toluene	8.765	91	73309	19.30	ug/l	97
64) Chlorobenzene	10.124	112	43085	18.46	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.206	131	16612	18.74	ug/l	98
66) Ethyl Benzene	10.236	91	79519	18.33	ug/l	98
67) m/p-Xylenes	10.341	106	59572	38.03	ug/l	95
68) o-Xylene	10.683	106	28527	18.84	ug/l	93
69) Styrene	10.694	104	46746	18.26	ug/l	93
70) Isopropylbenzene	11.000	105	76711	18.54	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.253	83	27251	20.38	ug/l	99
72) 1,2,3-Trichloropropane	11.277	75	25715m	19.23	ug/l	
73) Bromobenzene	11.236	156	18959	19.25	ug/l	94
74) n-propylbenzene	11.342	91	90181	18.36	ug/l	98
75) 2-Chlorotoluene	11.406	91	55374	18.72	ug/l	97
76) 1,3,5-Trimethylbenzene	11.489	105	66040	18.74	ug/l	98
77) t-1,4-Dichloro-2-butene	11.059	75	7234	16.65	ug/l	87
78) 4-Chlorotoluene	11.495	91	64542	18.74	ug/l	96
79) tert-butylbenzene	11.753	119	62069	18.98	ug/l	96
80) 1,2,4-Trimethylbenzene	11.789	105	67094	18.91	ug/l	96
81) sec-Butylbenzene	11.930	105	70868	18.15	ug/l	99
82) p-Isopropyltoluene	12.048	119	65006	18.25	ug/l	95
83) 1,3-Dichlorobenzene	12.006	146	32837	18.74	ug/l	99
84) 1,4-Dichlorobenzene	12.077	146	32543	18.55	ug/l	97
85) n-Butylbenzene	12.371	91	55636	17.01	ug/l	96
86) Hexachloroethane	12.577	117	10603	16.42	ug/l	92
87) 1,2-Dichlorobenzene	12.371	146	32716	18.97	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.983	75	6029	18.46	ug/l	87
89) 1,2,4-Trichlorobenzene	13.624	180	19824	18.32	ug/l	98
90) Hexachlorobutadiene	13.765	225	8695	18.23	ug/l	98
91) Naphthalene	13.818	128	65933	18.70	ug/l	99
92) 1,2,3-Trichlorobenzene	14.001	180	20360	19.15	ug/l	99

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

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