

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082221\
 Data File : VX023874.D
 Acq On : 20 Aug 2021 13:42
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 8/23/2021 11:31:59 AM

Quant Time: Aug 21 01:10:18 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 03 12:05:42 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	35878	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	198427	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	183861	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	86479	31.168	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.900%
60) 4-Bromofluorobenzene	11.085	95	91342	30.331	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.100%
63) Toluene-d8	8.653	98	248997	30.091	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.300%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.172	85	45111	21.288	ug/l	100
3) Chloromethane	1.294	50	47264	19.769	ug/l	99
4) Vinyl Chloride	1.374	62	48347	20.218	ug/l	97
5) Bromomethane	1.599	94	34440	24.544	ug/l	97
6) Chloroethane	1.685	64	31000	20.705	ug/l	98
7) Trichlorofluoromethane	1.886	101	79498	20.585	ug/l	95
8) Diethyl Ether	2.136	74	27395	19.894	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	46466	21.538	ug/l	100
10) 1,1-Dichloroethene	2.319	96	42404	20.400	ug/l	94
11) Methyl Iodide	2.453	142	59211	20.274	ug/l	99
12) Methyl Acetate	2.709	43	64492	20.803	ug/l	100
13) Acrolein	2.239	56	29786	87.270	ug/l	99
14) Acrylonitrile	3.068	53	136801	99.751	ug/l	97
15) Acetone	2.386	58	45786	110.163	ug/l	96
16) Carbon Disulfide	2.514	76	100139	19.529	ug/l	98
17) Allyl chloride	2.666	41	76738	19.979	ug/l	96
18) Methylene Chloride	2.794	84	50365	20.602	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	45716	20.549	ug/l	95
20) Diisopropyl ether	3.770	45	155582	20.285	ug/l	98
21) 1,1-Dichloroethane	3.617	63	85784	20.534	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	53055	20.492	ug/l	96
23) tert-Butyl Alcohol	2.977	59	60280	96.864	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	149008	20.436	ug/l	99
25) Chloroform	5.099	83	90069	21.018	ug/l	100
26) Cyclohexane	5.477	56	76991	20.299	ug/l #	100
29) 1,1-Dichloropropene	5.702	75	64970	21.023	ug/l	99
30) 2-Butanone	4.568	43	231330	111.670	ug/l	99
31) 2,2-Dichloropropane	4.483	77	73445	21.022	ug/l	96
32) 1,1,1-Trichloroethane	5.391	97	78041	20.874	ug/l	97
33) Carbon Tetrachloride	5.684	117	68734	21.137	ug/l	94
34) Benzene	6.044	78	191655	20.569	ug/l	97
35) Methacrylonitrile	4.928	41	41628	19.986	ug/l	98
36) 1,2-Dichloroethane	6.092	62	76155	21.390	ug/l	99
37) Trichloroethene	7.129	130	51841	20.479	ug/l	97
38) Methylcyclohexane	7.385	83	81611	20.760	ug/l	99
39) 1,2-Dichloropropane	7.434	63	50478	20.703	ug/l	95
40) Dibromomethane	7.586	93	36276	20.974	ug/l	98
41) Bromodichloromethane	7.824	83	65790	20.959	ug/l	97
42) Vinyl Acetate	3.727	43	689842	102.234	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	76939	20.022	ug/l	100
44) Isopropyl Acetate	6.348	43	122779	20.069	ug/l	98
45) 1,4-Dioxane	7.665	88	25243	397.643	ug/l	93
46) Methyl methacrylate	7.696	41	60178	20.397	ug/l	94
47) n-amyl Acetate	10.848	43	105833	20.333	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	74107	20.221	ug/l	99
49) cis-1,3-Dichloropropene	8.372	75	78377	20.166	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	52225	20.907	ug/l	97
51) Ethyl methacrylate	9.122	69	79152	20.097	ug/l	97
52) 1,3-Dichloropropane	9.311	76	85868	20.940	ug/l	98
53) Dibromochloromethane	9.525	129	51594	20.551	ug/l	99
54) 1,2-Dibromoethane	9.610	107	55668	21.060	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	169149	85.995	ug/l	99
56) Bromoform	10.805	173	35700	19.818	ug/l	100
58) 4-Methyl-2-Pentanone	8.580	43	413709	104.373	ug/l	99
59) 2-Hexanone	9.433	43	348634	113.266	ug/l	99
61) Tetrachloroethene	9.275	164	53602	21.698	ug/l	98
62) Toluene	8.720	91	214449	20.675	ug/l	99
64) Chlorobenzene	10.079	112	135610	20.664	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	49430	20.344	ug/l	100
66) Ethyl Benzene	10.195	91	239112	20.831	ug/l	99
67) m/p-Xylenes	10.305	106	183914	41.429	ug/l	100
68) o-Xylene	10.646	106	89588	20.470	ug/l	99
69) Styrene	10.659	104	148018	20.523	ug/l	100
70) Isopropylbenzene	10.963	105	241413	20.980	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	77586	21.077	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	73156m	21.143	ug/l	
73) Bromobenzene	11.201	156	57820	20.639	ug/l	95
74) n-propylbenzene	11.305	91	280199	21.029	ug/l	100
75) 2-Chlorotoluene	11.366	91	166946	20.990	ug/l	99
76) 1,3,5-Trimethylbenzene	11.457	105	201796	21.146	ug/l	98
77) t-1,4-Dichloro-2-butene	11.024	75	23626	19.128	ug/l	97
78) 4-Chlorotoluene	11.457	91	190345	21.179	ug/l	100
79) tert-butylbenzene	11.719	119	193991	20.927	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	202229	21.384	ug/l	100
81) sec-Butylbenzene	11.896	105	249797	21.038	ug/l	100
82) p-Isopropyltoluene	12.012	119	208003	21.321	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	105283	20.748	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	105202	20.976	ug/l	98
85) n-Butylbenzene	12.335	91	184492	21.376	ug/l	99
86) Hexachloroethane	12.542	117	31451	19.835	ug/l	99
87) 1,2-Dichlorobenzene	12.341	146	102990	21.033	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	15433	19.088	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	61546	20.319	ug/l	97
90) Hexachlorobutadiene	13.725	225	29796	21.930	ug/l	97
91) Naphthalene	13.780	128	204191	19.627	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	61889	20.337	ug/l	98

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

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