

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080421\
 Data File : VX023543.D
 Acq On : 04 Aug 2021 15:19
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 8/6/2021 11:09:20 AM

Quant Time: Aug 05 05:19:06 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	4.904	128	38662	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	215558	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	195785	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	85761	28.68	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.60%
60) 4-Bromofluorobenzene	11.085	95	95312	29.72	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.07%
63) Toluene-d8	8.653	98	266572	30.25	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.83%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	47860	20.96	ug/l	100
3) Chloromethane	1.294	50	53252	20.67	ug/l	99
4) Vinyl Chloride	1.374	62	53317	20.69	ug/l	97
5) Bromomethane	1.599	94	35967	23.79	ug/l	93
6) Chloroethane	1.685	64	32056	19.87	ug/l	100
7) Trichlorofluoromethane	1.886	101	84841	20.39	ug/l	96
8) Diethyl Ether	2.136	74	30492	20.55	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	48689	20.94	ug/l	99
10) 1,1-Dichloroethene	2.319	96	45623	20.37	ug/l	95
11) Methyl Iodide	2.453	142	57955	18.41	ug/l	97
12) Methyl Acetate	2.709	43	66179	19.81	ug/l	96
13) Acrolein	2.239	56	34722	94.41	ug/l	98
14) Acrylonitrile	3.069	53	145919	98.74	ug/l	98
15) Acetone	2.386	58	44444	99.23	ug/l	98
16) Carbon Disulfide	2.508	76	103075	18.65	ug/l	100
17) Allyl chloride	2.666	41	82022	19.82	ug/l	97
18) Methylene Chloride	2.794	84	55414	21.04	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	48522	20.24	ug/l	98
20) Diisopropyl ether	3.764	45	169944	20.56	ug/l	96
21) 1,1-Dichloroethane	3.611	63	93004	20.66	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	56731	20.33	ug/l	96
23) tert-Butyl Alcohol	2.971	59	63983	95.41	ug/l	100
24) Methyl tert-Butyl Ether	3.117	73	162506	20.68	ug/l	99
25) Chloroform	5.105	83	95144	20.60	ug/l	97
26) Cyclohexane	5.477	56	83521	20.43	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	69690	20.76	ug/l	100
30) 2-Butanone	4.562	43	220079	97.80	ug/l	99
31) 2,2-Dichloropropane	4.483	77	76902	20.26	ug/l	95
32) 1,1,1-Trichloroethane	5.385	97	80159	19.74	ug/l	98
33) Carbon Tetrachloride	5.678	117	70423	19.94	ug/l	96
34) Benzene	6.044	78	205743	20.33	ug/l	99
35) Methacrylonitrile	4.928	41	43525	19.24	ug/l	94
36) 1,2-Dichloroethane	6.092	62	78464	20.29	ug/l	99
37) Trichloroethene	7.129	130	57396	20.87	ug/l	95
38) Methylcyclohexane	7.385	83	88242	20.66	ug/l	99
39) 1,2-Dichloropropane	7.434	63	53942	20.37	ug/l	96
40) Dibromomethane	7.586	93	37147	19.77	ug/l	99
41) Bromodichloromethane	7.824	83	66022	19.36	ug/l	99
42) Vinyl Acetate	3.727	43	742346	101.27	ug/l	100
43) Ethyl Acetate	4.721	43	81670	19.56	ug/l	99

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44) Isopropyl Acetate	6.348	43	130682	19.66	ug/l	100
45) 1,4-Dioxane	7.665	88	26686	386.97	ug/l	98
46) Methyl methacrylate	7.696	41	62870	19.62	ug/l	95
47) n-amyl Acetate	10.848	43	113313	20.04	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	76190	19.14	ug/l	99
49) cis-1,3-Dichloropropene	8.372	75	81483	19.30	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	55388	20.41	ug/l	97
51) Ethyl methacrylate	9.116	69	84767	19.81	ug/l	99
52) 1,3-Dichloropropane	9.311	76	89727	20.14	ug/l	98
53) Dibromochloromethane	9.525	129	50837	18.64	ug/l	98
54) 1,2-Dibromoethane	9.610	107	57193	19.92	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	186940	87.49	ug/l	99
56) Bromoform	10.805	173	34935	17.85	ug/l	96
58) 4-Methyl-2-Pentanone	8.580	43	424279	100.52	ug/l	99
59) 2-Hexanone	9.433	43	333140	101.64	ug/l	99
61) Tetrachloroethene	9.275	164	56885	21.62	ug/l	99
62) Toluene	8.720	91	231033	20.92	ug/l	99
64) Chlorobenzene	10.079	112	146253	20.93	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	51468	19.89	ug/l	98
66) Ethyl Benzene	10.195	91	256362	20.97	ug/l	98
67) m/p-Xylenes	10.305	106	198231	41.93	ug/l	98
68) o-Xylene	10.646	106	95932	20.58	ug/l	100
69) Styrene	10.659	104	155890	20.30	ug/l	100
70) Isopropylbenzene	10.963	105	254860	20.80	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	80101	20.43	ug/l	100
72) 1,2,3-Trichloropropane	11.244	75	75519m	20.50	ug/l	
73) Bromobenzene	11.201	156	63973	21.44	ug/l	97
74) n-propylbenzene	11.305	91	295834	20.85	ug/l	99
75) 2-Chlorotoluene	11.366	91	174419	20.59	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	210211	20.69	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	24791	18.85	ug/l	93
78) 4-Chlorotoluene	11.457	91	194683	20.34	ug/l	99
79) tert-butylbenzene	11.719	119	204859	20.75	ug/l	100
80) 1,2,4-Trimethylbenzene	11.756	105	210401	20.89	ug/l	99
81) sec-Butylbenzene	11.896	105	263194	20.82	ug/l	100
82) p-Isopropyltoluene	12.012	119	217761	20.96	ug/l	100
83) 1,3-Dichlorobenzene	11.975	146	110733	20.49	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	109437	20.49	ug/l	98
85) n-Butylbenzene	12.335	91	193270	21.03	ug/l	100
86) Hexachloroethane	12.542	117	32275	19.12	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	107477	20.61	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	15473	17.97	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	67611	20.96	ug/l	99
90) Hexachlorobutadiene	13.725	225	30297	20.94	ug/l	99
91) Naphthalene	13.780	128	231048	20.86	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	67171	20.73	ug/l	98

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

