

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021981.D
 Acq On : 13 May 2021 20:31
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/14/2021 6:48:39 PM

Quant Time: May 14 03:47:20 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 06:11:35 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	17856	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	102124	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.061	117	92785	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	41807	30.40	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	101.33%	
60) 4-Bromofluorobenzene	11.085	95	46794	30.39	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.30%	
63) Toluene-d8	8.653	98	125720	29.65	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	98.83%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	20438	19.39	ug/l	95
3) Chloromethane	1.294	50	23429	18.50	ug/l	93
4) Vinyl Chloride	1.374	62	25364	19.29	ug/l	98
5) Bromomethane	1.611	94	11266	15.22	ug/l	97
6) Chloroethane	1.691	64	15558	18.38	ug/l	96
7) Trichlorofluoromethane	1.892	101	33932	18.47	ug/l	97
8) Diethyl Ether	2.136	74	15270	19.38	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.331	101	19157	18.18	ug/l	100
10) 1,1-Dichloroethene	2.325	96	19998	18.84	ug/l	99
11) Methyl Iodide	2.459	142	17658	16.73	ug/l	94
12) Methyl Acetate	2.709	43	28365	19.33	ug/l	100
13) Acrolein	2.239	56	19336	84.96	ug/l	95
14) Acrylonitrile	3.068	53	57703	96.36	ug/l	96
15) Acetone	2.386	58	17600	98.45	ug/l	92
16) Carbon Disulfide	2.514	76	58656	20.20	ug/l	97
17) Allyl chloride	2.666	41	35723	19.10	ug/l	96
18) Methylene Chloride	2.794	84	23427	18.57	ug/l	98
19) trans-1,2-Dichloroethene	3.099	96	21682	18.80	ug/l	92
20) Diisopropyl ether	3.764	45	65397	18.55	ug/l #	84
21) 1,1-Dichloroethane	3.617	63	40075	18.98	ug/l	99
22) cis-1,2-Dichloroethene	4.501	96	25724	18.98	ug/l	99
23) tert-Butyl Alcohol	2.971	59	30518	104.84	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	65355	18.91	ug/l	99
25) Chloroform	5.105	83	39885	18.63	ug/l	96
26) Cyclohexane	5.477	56	31903	18.31	ug/l #	98
29) 1,1-Dichloropropene	5.702	75	29703	18.58	ug/l	98
30) 2-Butanone	4.562	43	89177	98.57	ug/l	100
31) 2,2-Dichloropropane	4.489	77	30232	16.10	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	35438	18.79	ug/l	98
33) Carbon Tetrachloride	5.684	117	30814	19.25	ug/l	91
34) Benzene	6.044	78	92860	19.04	ug/l	96
35) Methacrylonitrile	4.934	41	18866	19.48	ug/l	91
36) 1,2-Dichloroethane	6.092	62	32239	19.36	ug/l #	90
37) Trichloroethene	7.129	130	22709	18.53	ug/l	95
38) Methylcyclohexane	7.385	83	32986	18.18	ug/l	97
39) 1,2-Dichloropropane	7.440	63	23525	19.32	ug/l	98
40) Dibromomethane	7.586	93	16508	19.48	ug/l	98
41) Bromodichloromethane	7.824	83	31849	18.83	ug/l	98
42) Vinyl Acetate	3.727	43	324679	96.09	ug/l	100

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43) Ethyl Acetate	4.721	43	35479	19.30	ug/l	100
44) Isopropyl Acetate	6.348	43	57891	19.09	ug/l	98
45) 1,4-Dioxane	7.677	88	11165	412.41	ug/l #	100
46) Methyl methacrylate	7.696	41	26801	19.06	ug/l	94
47) n-amyl Acetate	10.848	43	51186	20.29	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	35146	18.51	ug/l	95
49) cis-1,3-Dichloropropene	8.372	75	38590	18.93	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	23849	19.78	ug/l	97
51) Ethyl methacrylate	9.116	69	38068	19.57	ug/l	97
52) 1,3-Dichloropropane	9.311	76	40042	19.04	ug/l	99
53) Dibromochloromethane	9.525	129	23807	19.65	ug/l	100
54) 1,2-Dibromoethane	9.616	107	23226	18.75	ug/l	94
55) 2-Chloroethyl vinyl ether	8.244	63	98689	96.14	ug/l	99
56) Bromoform	10.805	173	15009	19.53	ug/l	96
58) 4-Methyl-2-Pentanone	8.580	43	177094	94.65	ug/l	100
59) 2-Hexanone	9.433	43	134875	97.33	ug/l	100
61) Tetrachloroethene	9.275	164	18606	17.68	ug/l #	83
62) Toluene	8.726	91	96667	18.20	ug/l	99
64) Chlorobenzene	10.086	112	59626	18.77	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	21420	18.48	ug/l	99
66) Ethyl Benzene	10.195	91	110354	18.88	ug/l	99
67) m/p-Xylenes	10.305	106	83753	37.81	ug/l	97
68) o-Xylene	10.646	106	40461	18.76	ug/l	96
69) Styrene	10.659	104	67618	18.73	ug/l	99
70) Isopropylbenzene	10.963	105	107703	19.01	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	36318	19.44	ug/l	96
72) 1,2,3-Trichloropropane	11.244	75	32798m	19.81	ug/l	
73) Bromobenzene	11.201	156	22845	19.03	ug/l	98
74) n-propylbenzene	11.305	91	124505	18.85	ug/l	100
75) 2-Chlorotoluene	11.366	91	74407	19.02	ug/l	100
76) 1,3,5-Trimethylbenzene	11.457	105	89639	18.95	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	12154	18.11	ug/l	86
78) 4-Chlorotoluene	11.457	91	84998	18.88	ug/l	100
79) tert-butylbenzene	11.719	119	85269	18.84	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	89544	18.94	ug/l	99
81) sec-Butylbenzene	11.896	105	106126	18.66	ug/l	99
82) p-Isopropyltoluene	12.012	119	88144	18.49	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	42753	18.79	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	41989	18.39	ug/l	98
85) n-Butylbenzene	12.335	91	78600	17.99	ug/l	98
86) Hexachloroethane	12.542	117	14829	18.72	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	41167	18.67	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	7910	19.01	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	24303	18.00	ug/l	97
90) Hexachlorobutadiene	13.725	225	9257	17.72	ug/l	99
91) Naphthalene	13.780	128	101869	19.23	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	25076	18.70	ug/l	99

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

