

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052721\
 Data File : VX02222.D
 Acq On : 27 May 2021 02:29
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/28/2021 2:35:50 PM

Quant Time: May 27 05:02:39 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	15675	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	91771	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	80369	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	38975	32.28	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.60%			
60) 4-Bromofluorobenzene	11.085	95	41013	30.75	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.50%			
63) Toluene-d8	8.653	98	108935	29.66	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.87%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	16013	17.30	ug/l	96
3) Chloromethane	1.295	50	19739	17.76	ug/l	100
4) Vinyl Chloride	1.374	62	20424	17.69	ug/l	96
5) Bromomethane	1.599	94	12202	18.78	ug/l	92
6) Chloroethane	1.685	64	12999	17.49	ug/l	94
7) Trichlorofluoromethane	1.886	101	27934	17.32	ug/l	93
8) Diethyl Ether	2.136	74	13126	18.97	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.325	101	14794	15.99	ug/l	98
10) 1,1-Dichloroethene	2.319	96	17589	18.88	ug/l	98
11) Methyl Iodide	2.453	142	18344	19.80	ug/l	97
12) Methyl Acetate	2.709	43	30215	23.45	ug/l	99
13) Acrolein	2.239	56	30712	153.72	ug/l	98
14) Acrylonitrile	3.075	53	60020	114.18	ug/l	97
15) Acetone	2.392	58	18261	116.36	ug/l	83
16) Carbon Disulfide	2.514	76	42049	16.50	ug/l	99
17) Allyl chloride	2.666	41	32777	19.96	ug/l	96
18) Methylene Chloride	2.794	84	23247	20.99	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	20520	20.27	ug/l	97
20) Diisopropyl ether	3.776	45	65046	21.01	ug/l	89
21) 1,1-Dichloroethane	3.617	63	38347	20.68	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	24434	20.53	ug/l	95
23) tert-Butyl Alcohol	2.977	59	29627	115.94	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	64402	21.23	ug/l	100
25) Chloroform	5.105	83	38665	20.58	ug/l	96
26) Cyclohexane	5.477	56	26111	17.07	ug/l #	100
29) 1,1-Dichloropropene	5.702	75	27352	19.04	ug/l	97
30) 2-Butanone	4.568	43	92526	113.80	ug/l	99
31) 2,2-Dichloropropane	4.483	77	20682	12.25	ug/l #	88
32) 1,1,1-Trichloroethane	5.391	97	32020	18.90	ug/l	98
33) Carbon Tetrachloride	5.678	117	24102m	16.76	ug/l	
34) Benzene	6.050	78	87000	19.85	ug/l	98
35) Methacrylonitrile	4.940	41	19267m	22.14	ug/l	
36) 1,2-Dichloroethane	6.099	62	32384	21.65	ug/l	97
37) Trichloroethene	7.129	130	20738	18.83	ug/l	96
38) Methylcyclohexane	7.385	83	25220	15.47	ug/l	98
39) 1,2-Dichloropropane	7.434	63	23498	21.48	ug/l	94
40) Dibromomethane	7.586	93	15013	19.72	ug/l	97
41) Bromodichloromethane	7.824	83	28813	18.95	ug/l	95
42) Vinyl Acetate	3.733	43	320136	105.44	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	36226	21.93	ug/l	98
44) Isopropyl Acetate	6.348	43	59183	21.72	ug/l	97
45) 1,4-Dioxane	7.665	88	10159	417.58	ug/l #	100
46) Methyl methacrylate	7.702	41	27369	21.66	ug/l	95
47) n-amyl Acetate	10.848	43	50645	22.35	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	30598	17.93	ug/l	99
49) cis-1,3-Dichloropropene	8.373	75	33762	18.43	ug/l	99
50) 1,1,2-Trichloroethane	9.159	97	23268	21.47	ug/l	98
51) Ethyl methacrylate	9.122	69	37711	21.58	ug/l	98
52) 1,3-Dichloropropane	9.311	76	39773	21.05	ug/l	99
53) Dibromochloromethane	9.525	129	19886	18.26	ug/l	98
54) 1,2-Dibromoethane	9.616	107	23522	21.14	ug/l	98
55) 2-Chloroethyl vinyl ether	8.251	63	90444	98.04	ug/l	99
56) Bromoform	10.805	173	11914	17.25	ug/l	98
58) 4-Methyl-2-Pentanone	8.580	43	184975	114.13	ug/l	98
59) 2-Hexanone	9.433	43	138039	115.00	ug/l	99
61) Tetrachloroethene	9.281	164	17209	18.88	ug/l	90
62) Toluene	8.726	91	93638	20.35	ug/l	99
64) Chlorobenzene	10.080	112	56490	20.53	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.165	131	19846	19.76	ug/l	97
66) Ethyl Benzene	10.195	91	101506	20.05	ug/l	99
67) m/p-Xylenes	10.305	106	77098	40.18	ug/l	99
68) o-Xylene	10.647	106	39131	20.94	ug/l	99
69) Styrene	10.659	104	63304	20.25	ug/l	98
70) Isopropylbenzene	10.964	105	96476	19.66	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	36663	22.66	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	32380m	22.58	ug/l	
73) Bromobenzene	11.201	156	21535	20.71	ug/l	95
74) n-propylbenzene	11.305	91	112536	19.67	ug/l	100
75) 2-Chlorotoluene	11.366	91	69381	20.48	ug/l	99
76) 1,3,5-Trimethylbenzene	11.457	105	82066	20.02	ug/l	100
77) t-1,4-Dichloro-2-butene	11.024	75	9262	15.93	ug/l	81
78) 4-Chlorotoluene	11.457	91	80426	20.62	ug/l	100
79) tert-butylbenzene	11.719	119	74214	18.94	ug/l	97
80) 1,2,4-Trimethylbenzene	11.756	105	83314	20.34	ug/l	97
81) sec-Butylbenzene	11.896	105	93740	19.03	ug/l	98
82) p-Isopropyltoluene	12.012	119	78265	18.95	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	38819	19.69	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	39270	19.86	ug/l	98
85) n-Butylbenzene	12.335	91	69990	18.49	ug/l	98
86) Hexachloroethane	12.543	117	11265	16.41	ug/l	99
87) 1,2-Dichlorobenzene	12.341	146	39934	20.91	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	7147	19.83	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	22172	18.96	ug/l	97
90) Hexachlorobutadiene	13.725	225	6719	14.85	ug/l	97
91) Naphthalene	13.780	128	97152	21.18	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	22362	19.26	ug/l	98

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

