

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102020\
 Data File : VN064209.D
 Acq On : 20 Oct 2020 20:39
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 10/23/2020 2:29:05 PM

Quant Time: Oct 21 05:38:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 20 11:51:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	48257	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	266740	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	245944	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	129734	32.84	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	109.47%
60) 4-Bromofluorobenzene	12.38	95	128382	29.13	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.10%
63) Toluene-d8	10.06	98	330207	29.66	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	67467	20.377 ug/l	95
3) Chloromethane	2.04	50	66183	19.507 ug/l	99
4) Vinyl Chloride	2.16	62	62741	18.796 ug/l	95
5) Bromomethane	2.54	94	39569	19.814 ug/l	98
6) Chloroethane	2.67	64	36884	18.971 ug/l	96
7) Trichlorofluoromethane	2.99	101	103546	19.323 ug/l	98
8) Diethyl Ether	3.38	74	35168	19.331 ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.72	101	51198	18.103 ug/l	97
10) 1,1-Dichloroethene	3.70	96	51545	18.719 ug/l	99
11) Methyl Iodide	3.91	142	71812	18.093 ug/l	100
12) Methyl Acetate	4.28	43	55160	19.006 ug/l	93
13) Acrolein	3.57	56	31286	98.588 ug/l #	1
14) Acrylonitrile	4.93	53	110170	94.199 ug/l	99
15) Acetone	3.77	58	29457	93.285 ug/l	91
16) Carbon Disulfide	4.01	76	144031	18.290 ug/l	98
17) Allyl chloride	4.28	41	92805	18.126 ug/l	96
18) Methylene Chloride	4.50	84	60037	19.063 ug/l	98
19) trans-1,2-Dichloroethene	4.99	96	53628	18.054 ug/l	92
20) Diisopropyl ether	5.90	45	177074	18.714 ug/l	97
21) 1,1-Dichloroethane	5.80	63	110839	19.187 ug/l	98
22) cis-1,2-Dichloroethene	6.78	96	62280	17.936 ug/l	96
23) tert-Butyl Alcohol	4.73	59	53308	98.548 ug/l #	100
24) Methyl tert-Butyl Ether	5.00	73	170334	18.720 ug/l	97
25) Chloroform	7.33	83	111814	18.629 ug/l	95
26) Cyclohexane	7.61	56	83630	18.259 ug/l #	87
29) 1,1-Dichloropropene	7.75	75	81586	18.417 ug/l	100
30) 2-Butanone	6.78	43	175862	96.271 ug/l	98
31) 2,2-Dichloropropane	6.77	77	94278	16.764 ug/l	100
32) 1,1,1-Trichloroethane	7.53	97	107195	18.992 ug/l	99
33) Carbon Tetrachloride	7.73	117	99220	19.282 ug/l	100
34) Benzene	8.00	78	230329	18.672 ug/l	99
35) Methacrylonitrile	7.13	41	39292	19.609 ug/l	93
36) 1,2-Dichloroethane	8.09	62	98920	19.827 ug/l	99
37) Trichloroethene	8.80	130	62080	18.278 ug/l	96
38) Methylcyclohexane	9.05	83	75927	17.921 ug/l	97
39) 1,2-Dichloropropane	9.08	63	62056	18.851 ug/l	94
40) Dibromomethane	9.17	93	43460	18.974 ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.37	83	96554	19.478	ug/l	92
42) Vinyl Acetate	5.84	43	816323	94.130	ug/l	100
43) Ethyl Acetate	6.88	43	78800	19.751	ug/l	98
44) Isopropyl Acetate	8.13	43	147627	19.274	ug/l #	89
45) 1,4-Dioxane	9.16	88	17210	384.176	ug/l	97
46) Methyl methacrylate	9.17	41	70990	19.533	ug/l	95
47) n-amyl Acetate	12.04	43	125581	18.482	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	103055	18.434	ug/l	91
49) cis-1,3-Dichloropropene	9.81	75	103620	17.939	ug/l	96
50) 1,1,2-Trichloroethane	10.53	97	56537	18.425	ug/l	99
51) Ethyl methacrylate	10.40	69	88326	18.203	ug/l	98
52) 1,3-Dichloropropane	10.68	76	99275	18.765	ug/l	99
53) Dibromochloromethane	10.87	129	71688	18.562	ug/l	97
54) 1,2-Dibromoethane	10.98	107	60204	18.458	ug/l	95
55) 2-Chloroethyl vinyl ether	9.66	63	234984	98.535	ug/l	99
56) Bromoform	12.10	173	47154	17.532	ug/l #	96
58) 4-Methyl-2-Pentanone	9.95	43	390943	93.804	ug/l	98
59) 2-Hexanone	10.72	43	282156	91.193	ug/l	99
61) Tetrachloroethene	10.60	164	61073	18.420	ug/l	97
62) Toluene	10.13	91	251676	17.900	ug/l	98
64) Chlorobenzene	11.41	112	155860	17.800	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	63517	18.515	ug/l	97
66) Ethyl Benzene	11.48	91	289350	17.900	ug/l	100
67) m/p-Xylenes	11.59	106	213680	35.543	ug/l	100
68) o-Xylene	11.92	106	104466	17.907	ug/l	97
69) Styrene	11.94	104	174220	17.651	ug/l	98
70) Isopropylbenzene	12.22	105	282103	18.309	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	76123	18.029	ug/l	96
72) 1,2,3-Trichloropropane	12.53	75	82410m	18.704	ug/l	
73) Bromobenzene	12.50	156	66908	18.008	ug/l	98
74) n-propylbenzene	12.57	91	308203	17.526	ug/l	98
75) 2-Chlorotoluene	12.65	91	196486	18.050	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	231174	17.632	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	28411	16.493	ug/l	99
78) 4-Chlorotoluene	12.75	91	200186	17.580	ug/l	100
79) tert-butylbenzene	12.97	119	191663	17.881	ug/l	99
80) 1,2,4-Trimethylbenzene	13.01	105	234286	17.603	ug/l	99
81) sec-Butylbenzene	13.15	105	241378	17.308	ug/l	100
82) p-Isopropyltoluene	13.26	119	224288	17.376	ug/l	100
83) 1,3-Dichlorobenzene	13.26	146	114265	17.157	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	115342	17.298	ug/l	99
85) n-Butylbenzene	13.59	91	191705	16.731	ug/l	99
86) Hexachloroethane	13.85	117	39092	17.592	ug/l	94
87) 1,2-Dichlorobenzene	13.63	146	113125	17.418	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.24	75	18936	17.708	ug/l	95
89) 1,2,4-Trichlorobenzene	14.88	180	65890	16.894	ug/l	95
90) Hexachlorobutadiene	14.98	225	32706	16.544	ug/l	99
91) Naphthalene	15.10	128	202917	17.164	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	65237	17.490	ug/l	99

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

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