

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110920\
 Data File : VN064503.D
 Acq On : 9 Nov 2020 11:15
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 11/10/2020 1:10:26 PM

Quant Time: Nov 09 12:29:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 09 12:16:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	72746	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	381194	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	349104	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.98	65	197206	32.82	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	109.40%
60) 4-Bromofluorobenzene	12.38	95	166694	28.07	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.57%
63) Toluene-d8	10.06	98	497442	31.45	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	104.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	23088	4.932 ug/l	94
3) Chloromethane	2.04	50	27801	5.614 ug/l	99
4) Vinyl Chloride	2.16	62	30477	5.922 ug/l	99
5) Bromomethane	2.53	94	21785	6.455 ug/l	89
6) Chloroethane	2.68	64	18748	6.132 ug/l	95
7) Trichlorofluoromethane	2.99	101	45753	5.526 ug/l	97
8) Diethyl Ether	3.37	74	16164	6.105 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.71	101	21156	5.146 ug/l	53
10) 1,1-Dichloroethene	3.69	96	20082	5.123 ug/l	95
11) Methyl Iodide	3.90	142	20413	3.943 ug/l	97
12) Methyl Acetate	4.28	43	22028	5.221 ug/l #	90
13) Acrolein	3.56	56	11866	29.703 ug/l	97
14) Acrylonitrile	4.94	53	50084m	26.682 ug/l	
15) Acetone	3.78	58	17141	26.470 ug/l	98
16) Carbon Disulfide	4.00	76	61452	5.447 ug/l	100
17) Allyl chloride	4.27	41	33216	4.771 ug/l	100
18) Methylene Chloride	4.50	84	23958	5.261 ug/l	95
19) trans-1,2-Dichloroethene	4.98	96	22309	5.160 ug/l	91
20) Diisopropyl ether	5.90	45	71578	4.838 ug/l	92
21) 1,1-Dichloroethane	5.79	63	44422	5.320 ug/l	96
22) cis-1,2-Dichloroethene	6.78	96	24205	4.799 ug/l	97
23) tert-Butyl Alcohol	4.75	59	16271	23.164 ug/l #	100
24) Methyl tert-Butyl Ether	4.99	73	62641	4.509 ug/l #	67
25) Chloroform	7.33	83	45228	5.052 ug/l	97
26) Cyclohexane	7.61	56	29346	4.451 ug/l #	98
29) 1,1-Dichloropropene	7.75	75	31076	4.986 ug/l	98
30) 2-Butanone	6.79	43	76060	26.676 ug/l #	83
31) 2,2-Dichloropropane	6.77	77	38422	5.066 ug/l #	58
32) 1,1,1-Trichloroethane	7.52	97	39682	4.949 ug/l	98
33) Carbon Tetrachloride	7.74	117	36140	5.009 ug/l	97
34) Benzene	8.00	78	93085	5.286 ug/l #	64
35) Methacrylonitrile	7.13	41	12642	4.551 ug/l	93
36) 1,2-Dichloroethane	8.08	62	41139	5.663 ug/l	97
37) Trichloroethene	8.80	130	24702	5.086 ug/l	99
38) Methylcyclohexane	9.05	83	26911	4.803 ug/l	95
39) 1,2-Dichloropropane	9.08	63	24755	5.408 ug/l	95
40) Dibromomethane	9.17	93	16695	5.112 ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	36816	5.317	ug/l #	99
42) Vinyl Acetate	5.85	43	291730	24.446	ug/l	99
43) Ethyl Acetate	6.88	43	30483	5.505	ug/l	98
44) Isopropyl Acetate	8.13	43	51432	5.311	ug/l	99
45) 1,4-Dioxane	9.17	88	7086m	102.423	ug/l	
46) Methyl methacrylate	9.16	41	24734	5.169	ug/l	90
47) n-amyl Acetate	12.05	43	34893	4.226	ug/l	95
48) t-1,3-Dichloropropene	10.35	75	35035	4.612	ug/l	98
49) cis-1,3-Dichloropropene	9.81	75	38720	4.930	ug/l	99
50) 1,1,2-Trichloroethane	10.53	97	23656	5.405	ug/l	92
51) Ethyl methacrylate	10.40	69	26429	4.212	ug/l	95
52) 1,3-Dichloropropane	10.68	76	39392	5.344	ug/l	98
53) Dibromochloromethane	10.87	129	25157	4.709	ug/l	96
54) 1,2-Dibromoethane	10.97	107	22281	4.806	ug/l	99
55) 2-Chloroethyl vinyl ether	9.66	63	71811	21.011	ug/l	98
56) Bromoform	12.10	173	15418	4.113	ug/l	97
58) 4-Methyl-2-Pentanone	9.95	43	147887	26.139	ug/l	98
59) 2-Hexanone	10.72	43	105569	25.144	ug/l	100
61) Tetrachloroethene	10.60	164	23004	4.944	ug/l	94
62) Toluene	10.12	91	101349	5.149	ug/l	99
64) Chlorobenzene	11.40	112	58519	4.800	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.48	131	22920	4.849	ug/l	98
66) Ethyl Benzene	11.48	91	100524	4.678	ug/l	96
67) m/p-Xylenes	11.59	106	70545	8.722	ug/l	99
68) o-Xylene	11.92	106	32941	4.247	ug/l	97
69) Styrene	11.94	104	51991	3.993	ug/l	100
70) Isopropylbenzene	12.22	105	84603	4.208	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.48	83	30394	5.295	ug/l	95
72) 1,2,3-Trichloropropane	12.53	75	32789m	5.544	ug/l	
73) Bromobenzene	12.50	156	23438	4.551	ug/l	96
74) n-propylbenzene	12.56	91	102303	4.581	ug/l	99
75) 2-Chlorotoluene	12.65	91	66906	4.737	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	70190	4.200	ug/l	98
77) t-1,4-Dichloro-2-butene	12.27	75	9526	4.528	ug/l	96
78) 4-Chlorotoluene	12.75	91	67728	4.617	ug/l	99
79) tert-butylbenzene	12.97	119	55680	4.238	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	68065	4.044	ug/l	100
81) sec-Butylbenzene	13.14	105	73940	4.376	ug/l	98
82) p-Isopropyltoluene	13.26	119	61560	3.987	ug/l	98
83) 1,3-Dichlorobenzene	13.26	146	37749	4.263	ug/l	100
84) 1,4-Dichlorobenzene	13.34	146	37394	4.215	ug/l	98
85) n-Butylbenzene	13.59	91	54641	4.414	ug/l	97
86) Hexachloroethane	13.85	117	14642	4.968	ug/l	97
87) 1,2-Dichlorobenzene	13.63	146	36695	4.314	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.24	75	6241	5.039	ug/l	95
89) 1,2,4-Trichlorobenzene	14.88	180	13840	3.381	ug/l	96
90) Hexachlorobutadiene	14.98	225	10458	4.802	ug/l	96
91) Naphthalene	15.10	128	41817	3.372	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	15067	3.659	ug/l	95

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

