

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102020\
 Data File : VN064190.D
 Acq On : 20 Oct 2020 9:49
 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
 10/23/2020 2:28:32 PM

Quant Time: Oct 20 11:16:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 20 11:03:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	58154	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	334930	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	292354	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.98	65	145503	28.21	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.03%
60) 4-Bromofluorobenzene	12.37	95	158126	31.03	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.43%
63) Toluene-d8	10.06	98	406492	30.65	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	16407	4.319 ug/l	98
3) Chloromethane	2.04	50	19895	5.044 ug/l	94
4) Vinyl Chloride	2.16	62	19348	4.931 ug/l #	84
5) Bromomethane	2.53	94	12446	5.006 ug/l	86
6) Chloroethane	2.68	64	12234	5.040 ug/l	92
7) Trichlorofluoromethane	2.98	101	33590	5.348 ug/l	97
8) Diethyl Ether	3.37	74	11953	5.878 ug/l	84
9) 1,1,2-Trichlorotrifluoroet	3.71	101	18706m	5.781 ug/l	
10) 1,1-Dichloroethene	3.70	96	18491	6.044 ug/l	87
11) Methyl Iodide	3.91	142	23223	5.847 ug/l	98
12) Methyl Acetate	4.27	43	17505m	4.820 ug/l	
13) Acrolein	3.57	56	11529m	31.280 ug/l	
14) Acrylonitrile	4.92	53	35154	23.463 ug/l	92
15) Acetone	3.78	58	9717	22.969 ug/l	96
16) Carbon Disulfide	4.01	76	50016	5.547 ug/l	98
17) Allyl chloride	4.28	41	32913	5.868 ug/l	90
18) Methylene Chloride	4.50	84	22340	6.226 ug/l	90
19) trans-1,2-Dichloroethene	4.98	96	19790	5.737 ug/l #	78
20) Diisopropyl ether	5.89	45	61559	5.463 ug/l	93
21) 1,1-Dichloroethane	5.79	63	38524	5.670 ug/l	95
22) cis-1,2-Dichloroethene	6.78	96	23486	5.965 ug/l #	83
23) tert-Butyl Alcohol	4.73	59	18172m	28.273 ug/l	
24) Methyl tert-Butyl Ether	4.98	73	60079	5.879 ug/l #	79
25) Chloroform	7.32	83	40322	5.668 ug/l	95
26) Cyclohexane	7.61	56	31487	6.276 ug/l	95
29) 1,1-Dichloropropene	7.75	75	28792	5.134 ug/l	91
30) 2-Butanone	6.78	43	60615	22.808 ug/l	98
31) 2,2-Dichloropropane	6.77	77	39408	5.836 ug/l #	74
32) 1,1,1-Trichloroethane	7.53	97	37818	5.320 ug/l	95
33) Carbon Tetrachloride	7.73	117	34823	5.534 ug/l	94
34) Benzene	8.00	78	80544	5.102 ug/l #	74
35) Methacrylonitrile	7.12	41	12186	4.667 ug/l	93
36) 1,2-Dichloroethane	8.08	62	33191	4.838 ug/l #	94
37) Trichloroethene	8.80	130	22853	5.440 ug/l	100
38) Methylcyclohexane	9.05	83	29526	6.102 ug/l	95
39) 1,2-Dichloropropane	9.08	63	21764	5.098 ug/l	100
40) Dibromomethane	9.17	93	16338	5.501 ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	33626	5.366	ug/l	95
42) Vinyl Acetate	5.84	43	286964	25.387	ug/l	99
43) Ethyl Acetate	6.87	43	26675	4.633	ug/l #	93
44) Isopropyl Acetate	8.12	43	52750	5.429	ug/l #	87
45) 1,4-Dioxane	9.16	88	6259	102.964	ug/l	96
46) Methyl methacrylate	9.16	41	23135	4.826	ug/l	98
47) n-amyl Acetate	12.04	43	46226	5.340	ug/l	99
48) t-1,3-Dichloropropene	10.35	75	36420	5.342	ug/l	95
49) cis-1,3-Dichloropropene	9.80	75	38788	5.475	ug/l	98
50) 1,1,2-Trichloroethane	10.53	97	20681	5.156	ug/l	94
51) Ethyl methacrylate	10.40	69	33122	5.605	ug/l	91
52) 1,3-Dichloropropane	10.68	76	35982	5.237	ug/l	97
53) Dibromochloromethane	10.87	129	25492	5.469	ug/l	100
54) 1,2-Dibromoethane	10.97	107	21458	5.111	ug/l	96
55) 2-Chloroethyl vinyl ether	9.66	63	66755	21.044	ug/l	99
56) Bromoform	12.10	173	16805	5.147	ug/l #	96
58) 4-Methyl-2-Pentanone	9.95	43	136835	25.748	ug/l	98
59) 2-Hexanone	10.72	43	102853	25.890	ug/l	100
61) Tetrachloroethene	10.60	164	23183	6.461	ug/l	92
62) Toluene	10.12	91	91938	5.677	ug/l	100
64) Chlorobenzene	11.41	112	57076	5.774	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.48	131	22450	5.827	ug/l	98
66) Ethyl Benzene	11.48	91	104637	5.805	ug/l	96
67) m/p-Xylenes	11.59	106	78818	11.826	ug/l	99
68) o-Xylene	11.92	106	38595	6.053	ug/l	94
69) Styrene	11.94	104	62779	5.767	ug/l	97
70) Isopropylbenzene	12.22	105	99862	5.879	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	27498	5.275	ug/l	99
72) 1,2,3-Trichloropropane	12.52	75	29130m	5.595	ug/l	
73) Bromobenzene	12.50	156	23239	5.402	ug/l	95
74) n-propylbenzene	12.56	91	111636	5.649	ug/l	99
75) 2-Chlorotoluene	12.65	91	71232	5.903	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	82785	5.773	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	10653	5.482	ug/l	94
78) 4-Chlorotoluene	12.75	91	73472	5.776	ug/l	97
79) tert-butylbenzene	12.96	119	67100	5.798	ug/l	96
80) 1,2,4-Trimethylbenzene	13.01	105	86718	6.014	ug/l	100
81) sec-Butylbenzene	13.14	105	88998	5.867	ug/l	100
82) p-Isopropyltoluene	13.26	119	81182	5.868	ug/l	98
83) 1,3-Dichlorobenzene	13.25	146	42084	5.549	ug/l	97
84) 1,4-Dichlorobenzene	13.34	146	40270	5.306	ug/l	95
85) n-Butylbenzene	13.59	91	72579	6.004	ug/l	99
86) Hexachloroethane	13.85	117	13530	5.679	ug/l	96
87) 1,2-Dichlorobenzene	13.63	146	41744	5.649	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.24	75	7292	5.830	ug/l	89
89) 1,2,4-Trichlorobenzene	14.88	180	22830	5.789	ug/l	92
90) Hexachlorobutadiene	14.98	225	13474	6.603	ug/l	98
91) Naphthalene	15.10	128	71435	6.016	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	21964	5.797	ug/l	99

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

