

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN041619\
 Data File : VN055090.D
 Acq On : 16 Apr 2019 20:23
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 4:23:14 AM

Quant Time: Apr 17 02:07:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	71831	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	387873	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	344708	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	163376	29.84	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.47%
60) 4-Bromofluorobenzene	12.40	95	155630	29.00	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.67%
63) Toluene-d8	10.09	98	489451	29.87	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	83163	19.685	ug/l 100
3) Chloromethane	2.06	50	117404	20.572	ug/l 98
4) Vinyl Chloride	2.19	62	97652	19.787	ug/l 97
5) Bromomethane	2.56	94	57706	20.215	ug/l 96
6) Chloroethane	2.70	64	53500	19.356	ug/l 98
7) Trichlorofluoromethane	3.02	101	126170	20.007	ug/l 94
8) Diethyl Ether	3.41	74	41374	20.433	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	67549	19.595	ug/l 98
10) 1,1-Dichloroethene	3.73	96	60764	19.065	ug/l 99
11) Methyl Iodide	3.94	142	99156	20.558	ug/l 99
12) Methyl Acetate	4.33	43	97795	24.946	ug/l 99
13) Acrolein	3.60	56	32582	94.830	ug/l 98
14) Acrylonitrile	4.99	53	180389	112.313	ug/l 98
15) Acetone	3.82	58	31116	78.291	ug/l 95
16) Carbon Disulfide	4.04	76	200503	18.755	ug/l 100
17) Allyl chloride	4.32	41	162623	20.719	ug/l 98
18) Methylene Chloride	4.55	84	98508	20.909	ug/l 96
19) trans-1,2-Dichloroethene	5.03	96	85309	20.561	ug/l 98
20) Diisopropyl ether	5.96	45	337128	21.202	ug/l 99
21) 1,1-Dichloroethane	5.84	63	178982	21.074	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	99815	20.698	ug/l 98
23) tert-Butyl Alcohol	4.82	59	30915	120.714	ug/l # 100
24) Methyl tert-Butyl Ether	5.06	73	237741m	22.214	ug/l
25) Chloroform	7.37	83	169595	20.847	ug/l 97
26) Cyclohexane	7.65	56	156927	19.914	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	124195	20.560	ug/l 98
30) 2-Butanone	6.85	43	214529	106.989	ug/l 99
31) 2,2-Dichloropropane	6.82	77	110989	19.963	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	137182	21.485	ug/l 98
33) Carbon Tetrachloride	7.77	117	110700	20.026	ug/l 97
34) Benzene	8.04	78	367295	20.518	ug/l 98
35) Methacrylonitrile	7.18	41	50946	21.557	ug/l 97
36) 1,2-Dichloroethane	8.12	62	128305	20.972	ug/l 100
37) Trichloroethene	8.83	130	93463	20.481	ug/l 96
38) Methylcyclohexane	9.08	83	132324	18.889	ug/l 99
39) 1,2-Dichloropropane	9.12	63	105300	21.303	ug/l 98
40) Dibromomethane	9.21	93	60629	21.701	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	115912	20.102	ug/l	97
42) Vinyl Acetate	5.90	43	1118757	110.363	ug/l	99
43) Ethyl Acetate	6.94	43	90570	22.172	ug/l	100
44) Isopropyl Acetate	8.17	43	156334	22.583	ug/l	100
45) 1,4-Dioxane	9.20	88	16252	423.754	ug/l	94
46) Methyl methacrylate	9.20	41	83359	23.277	ug/l	95
47) n-amyl Acetate	12.07	43	120480	23.629	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	107191	20.244	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	136116	20.823	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	81393	21.449	ug/l	99
51) Ethyl methacrylate	10.43	69	100843	22.293	ug/l	99
52) 1,3-Dichloropropane	10.71	76	145237	21.842	ug/l	98
53) Dibromochloromethane	10.90	129	80316	20.547	ug/l	99
54) 1,2-Dibromoethane	11.00	107	76629	21.510	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	186600	98.673	ug/l	99
56) Bromoform	12.13	173	48277	19.656	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	457365	115.054	ug/l	98
59) 2-Hexanone	10.75	43	276873	109.637	ug/l	99
61) Tetrachloroethene	10.63	164	88342	19.693	ug/l	97
62) Toluene	10.15	91	389222	20.493	ug/l	98
64) Chlorobenzene	11.43	112	237024	20.671	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	87297	21.406	ug/l	98
66) Ethyl Benzene	11.51	91	412776	20.274	ug/l	98
67) m/p-Xylenes	11.62	106	310667	41.050	ug/l	97
68) o-Xylene	11.95	106	154747	20.691	ug/l	97
69) Styrene	11.96	104	232156	19.990	ug/l	100
70) Isopropylbenzene	12.25	105	404121	20.210	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	102788	22.475	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	87225m	23.094	ug/l	
73) Bromobenzene	12.53	156	94454	19.985	ug/l	99
74) n-propylbenzene	12.59	91	441855	19.738	ug/l	99
75) 2-Chlorotoluene	12.67	91	277425	20.548	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	324288	20.060	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	19386	20.362	ug/l	89
78) 4-Chlorotoluene	12.77	91	255546	19.865	ug/l	100
79) tert-butylbenzene	12.99	119	281028	20.090	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	319425	20.113	ug/l	100
81) sec-Butylbenzene	13.17	105	367093	19.640	ug/l	98
82) p-Isopropyltoluene	13.29	119	306207	19.412	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	152579	19.297	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	142403	18.952	ug/l	100
85) n-Butylbenzene	13.61	91	226895	18.057	ug/l	99
86) Hexachloroethane	13.87	117	47604	18.852	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	155355	20.063	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12906	21.232	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	60189	17.386	ug/l	97
90) Hexachlorobutadiene	15.01	225	52459	20.784	ug/l	98
91) Naphthalene	15.13	128	134533	18.559	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	64564	18.648	ug/l	98

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

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