

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052887.D
 Acq On : 14 Dec 2018 14:23
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 12/17/2018 3:05:46 PM

Quant Time: Dec 15 03:16:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	160919	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	960364	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	839409	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	322714	29.43	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.10%
60) 4-Bromofluorobenzene	12.40	95	393932	30.69	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.30%
63) Toluene-d8	10.09	98	1127752	28.97	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	172755	18.850	ug/l 100
3) Chloromethane	2.06	50	214729	17.666	ug/l 99
4) Vinyl Chloride	2.19	62	227092	18.512	ug/l 96
5) Bromomethane	2.58	94	135918	19.431	ug/l 99
6) Chloroethane	2.72	64	137935	18.907	ug/l 98
7) Trichlorofluoromethane	3.03	101	310359	20.499	ug/l 100
8) Diethyl Ether	3.41	74	113265	20.261	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	3.77	101	202980	21.149	ug/l 97
10) 1,1-Dichloroethene	3.75	96	183819	20.370	ug/l 97
11) Methyl Iodide	3.96	142	215221	17.178	ug/l 99
12) Methyl Acetate	4.33	43	160641	20.951	ug/l 98
13) Acrolein	3.61	56	24638	27.356	ug/l 98
14) Acrylonitrile	4.99	53	319785	97.886	ug/l 99
15) Acetone	3.82	58	82016	96.939	ug/l 99
16) Carbon Disulfide	4.06	76	502212	17.578	ug/l 100
17) Allyl chloride	4.33	41	298687	18.979	ug/l 95
18) Methylene Chloride	4.56	84	208650	19.969	ug/l 96
19) trans-1,2-Dichloroethene	5.05	96	194436	20.022	ug/l 90
20) Diisopropyl ether	5.95	45	643164	19.447	ug/l 96
21) 1,1-Dichloroethane	5.85	63	372267	19.749	ug/l 98
22) cis-1,2-Dichloroethene	6.84	96	227599	20.449	ug/l 97
23) tert-Butyl Alcohol	4.77	59	55962	115.151	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	498612	21.062	ug/l 98
25) Chloroform	7.37	83	371585	20.434	ug/l 100
26) Cyclohexane	7.66	56	338975	19.067	ug/l # 97
29) 1,1-Dichloropropene	7.80	75	280072	19.097	ug/l 98
30) 2-Butanone	6.84	43	368676	93.947	ug/l 98
31) 2,2-Dichloropropane	6.83	77	278265	20.610	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	303519	19.890	ug/l 97
33) Carbon Tetrachloride	7.78	117	258470	19.358	ug/l 98
34) Benzene	8.04	78	846643	19.201	ug/l 99
35) Methacrylonitrile	7.17	41	84469	17.349	ug/l 96
36) 1,2-Dichloroethane	8.13	62	255341	19.110	ug/l 99
37) Trichloroethene	8.84	130	243841	21.809	ug/l 95
38) Methylcyclohexane	9.08	83	343425	18.916	ug/l 97
39) 1,2-Dichloropropane	9.12	63	226875	19.195	ug/l 97
40) Dibromomethane	9.21	93	128890	20.180	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	271875	19.266	ug/l	99
42) Vinyl Acetate	5.90	43	1896403	89.314	ug/l	98
43) Ethyl Acetate	6.93	43	147907	17.725	ug/l #	84
44) Isopropyl Acetate	8.16	43	308282	21.065	ug/l	100
45) 1,4-Dioxane	9.20	88	33740	421.422	ug/l	92
46) Methyl methacrylate	9.20	41	149340	19.653	ug/l	98
47) n-amyl Acetate	12.07	43	270700	22.309	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	264964	19.365	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	322714	19.359	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	182249	20.130	ug/l	99
51) Ethyl methacrylate	10.43	69	232304	20.429	ug/l	95
52) 1,3-Dichloropropane	10.71	76	317417	19.697	ug/l	99
53) Dibromochloromethane	10.90	129	195848	19.648	ug/l	98
54) 1,2-Dibromoethane	11.01	107	176683	19.971	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	675313	101.458	ug/l	99
56) Bromoform	12.13	173	123346	18.932	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	810665	99.617	ug/l	98
59) 2-Hexanone	10.75	43	546393	98.288	ug/l	98
61) Tetrachloroethene	10.63	164	292977	28.339	ug/l	94
62) Toluene	10.16	91	913882	19.749	ug/l	100
64) Chlorobenzene	11.43	112	575083	20.361	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	200234	20.424	ug/l	99
66) Ethyl Benzene	11.51	91	988202	19.814	ug/l	98
67) m/p-Xylenes	11.62	106	758098	40.801	ug/l	97
68) o-Xylene	11.95	106	368481	20.432	ug/l	99
69) Styrene	11.96	104	597011	20.510	ug/l	99
70) Isopropylbenzene	12.25	105	984928	20.527	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	177141	16.971	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	178037m	19.870	ug/l	
73) Bromobenzene	12.53	156	246122	21.208	ug/l	94
74) n-propylbenzene	12.59	91	1129031	20.195	ug/l	99
75) 2-Chlorotoluene	12.68	91	658742	20.300	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	796378	20.548	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	53490	18.898	ug/l	96
78) 4-Chlorotoluene	12.77	91	672404	20.749	ug/l	99
79) tert-butylbenzene	12.99	119	701963	20.798	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	811219	20.918	ug/l	99
81) sec-Butylbenzene	13.17	105	958994	20.399	ug/l	100
82) p-Isopropyltoluene	13.29	119	828862	20.705	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	437884	21.454	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	434347	22.026	ug/l	98
85) n-Butylbenzene	13.62	91	693748	20.175	ug/l	99
86) Hexachloroethane	13.88	117	112380	16.568	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	423095	21.783	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	28932	19.788	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	230561	24.094	ug/l	100
90) Hexachlorobutadiene	15.01	225	136323	21.717	ug/l	98
91) Naphthalene	15.13	128	474000	24.529	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	203351	23.059	ug/l	99

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

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