

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011019\
 Data File : VN053351.D
 Acq On : 10 Jan 2019 19:56
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 1/11/2019 10:12:09 AM

Quant Time: Jan 11 06:44:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 10:33:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	143802	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	820999	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	728452	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	276945	30.32	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.07%
60) 4-Bromofluorobenzene	12.40	95	329084	29.52	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.40%
63) Toluene-d8	10.09	98	974367	29.69	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	177939	18.571	ug/l 100
3) Chloromethane	2.06	50	205638	18.287	ug/l 98
4) Vinyl Chloride	2.19	62	200618	18.129	ug/l 99
5) Bromomethane	2.53	94	117659	16.491	ug/l 97
6) Chloroethane	2.68	64	116590	18.290	ug/l 100
7) Trichlorofluoromethane	3.01	101	260090	19.032	ug/l 99
8) Diethyl Ether	3.41	74	100611	19.817	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.76	101	160311	18.671	ug/l 96
10) 1,1-Dichloroethene	3.74	96	156989	18.736	ug/l 94
11) Methyl Iodide	3.95	142	221298	18.035	ug/l 98
12) Methyl Acetate	4.33	43	145824	22.329	ug/l 98
13) Acrolein	3.61	56	80083	102.707	ug/l 98
14) Acrylonitrile	4.99	53	303305	103.813	ug/l 98
15) Acetone	3.82	58	63837	102.809	ug/l 92
16) Carbon Disulfide	4.05	76	429030	16.644	ug/l 100
17) Allyl chloride	4.32	41	249802	18.951	ug/l 98
18) Methylene Chloride	4.55	84	179414	18.709	ug/l 95
19) trans-1,2-Dichloroethene	5.04	96	166306	18.781	ug/l 94
20) Diisopropyl ether	5.95	45	550051	19.485	ug/l 95
21) 1,1-Dichloroethane	5.85	63	313071	19.048	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	192671	19.316	ug/l 96
23) tert-Butyl Alcohol	4.79	59	35724	72.533	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	442615	20.258	ug/l 98
25) Chloroform	7.37	83	302679	19.158	ug/l 99
26) Cyclohexane	7.65	56	287919	18.781	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	232420	18.689	ug/l 98
30) 2-Butanone	6.83	43	326438	105.214	ug/l 97
31) 2,2-Dichloropropane	6.83	77	203678	16.918	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	251135	19.274	ug/l 96
33) Carbon Tetrachloride	7.78	117	211920	18.581	ug/l 99
34) Benzene	8.04	78	718727	19.230	ug/l 98
35) Methacrylonitrile	7.17	41	65788	16.432	ug/l 95
36) 1,2-Dichloroethane	8.13	62	217106	20.010	ug/l 98
37) Trichloroethene	8.84	130	194526	19.213	ug/l 95
38) Methylcyclohexane	9.08	83	280761	19.302	ug/l 97
39) 1,2-Dichloropropane	9.12	63	189263	19.393	ug/l 97
40) Dibromomethane	9.21	93	109578	19.854	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	223427	18.850	ug/l	99
42) Vinyl Acetate	5.90	43	1736686	102.600	ug/l	97
43) Ethyl Acetate	6.93	43	147467	21.283	ug/l #	69
44) Isopropyl Acetate	8.16	43	283211	21.942	ug/l	100
45) 1,4-Dioxane	9.20	88	16440	208.294	ug/l #	93
46) Methyl methacrylate	9.20	41	135507	20.782	ug/l	95
47) n-amyl Acetate	12.07	43	230081	20.298	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	226234	18.701	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	263976	18.531	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	160586	20.292	ug/l	99
51) Ethyl methacrylate	10.43	69	210497	20.409	ug/l	95
52) 1,3-Dichloropropane	10.71	76	273683	20.076	ug/l	99
53) Dibromochloromethane	10.90	129	166113	18.689	ug/l	96
54) 1,2-Dibromoethane	11.01	107	158407	19.842	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	594232	100.394	ug/l	98
56) Bromoform	12.13	173	112315	18.472	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	761778	109.744	ug/l	97
59) 2-Hexanone	10.75	43	500779	104.501	ug/l	96
61) Tetrachloroethene	10.63	164	212558	19.745	ug/l	96
62) Toluene	10.16	91	772448	19.335	ug/l	100
64) Chlorobenzene	11.43	112	484148	19.312	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	170128	19.346	ug/l	98
66) Ethyl Benzene	11.51	91	824517	19.032	ug/l	99
67) m/p-Xylenes	11.62	106	632136	38.580	ug/l	98
68) o-Xylene	11.95	106	309670	19.503	ug/l	99
69) Styrene	11.96	104	502986	19.408	ug/l	99
70) Isopropylbenzene	12.25	105	818700	19.598	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	182319	20.732	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	159280m	20.683	ug/l	
73) Bromobenzene	12.53	156	208777	19.442	ug/l	95
74) n-propylbenzene	12.59	91	934301	19.757	ug/l	99
75) 2-Chlorotoluene	12.67	91	543783	19.416	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	662401	19.989	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	49304	18.221	ug/l	96
78) 4-Chlorotoluene	12.77	91	548052	19.224	ug/l	99
79) tert-butylbenzene	12.99	119	583786	20.199	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	663221	19.968	ug/l	100
81) sec-Butylbenzene	13.17	105	796128	20.803	ug/l	100
82) p-Isopropyltoluene	13.29	119	677446	20.485	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	352181	19.262	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	335896	18.846	ug/l	99
85) n-Butylbenzene	13.62	91	534987	19.893	ug/l	99
86) Hexachloroethane	13.88	117	93946	17.793	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	318910	18.771	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	22595	17.966	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	124309	15.075	ug/l	99
90) Hexachlorobutadiene	15.01	225	90791	18.190	ug/l	97
91) Naphthalene	15.13	128	246178	14.071	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	96499	13.117	ug/l	98

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

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