

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
 Data File : VN051007.D
 Acq On : 4 Sep 2018 10:02
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 9/5/2018 12:00:12 PM

Quant Time: Sep 04 10:56:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	109588	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	581636	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	494935	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	206276	29.50	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.33%
60) 4-Bromofluorobenzene	12.40	95	209083	28.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.70%
63) Toluene-d8	10.09	98	719200	31.16	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.87%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	115174	16.92	ug/l	98
3) Chloromethane	2.06	50	128413	15.98	ug/l	98
4) Vinyl Chloride	2.18	62	132306	16.66	ug/l	97
5) Bromomethane	2.57	94	75859	15.67	ug/l	100
6) Chloroethane	2.70	64	77642	16.58	ug/l	93
7) Trichlorofluoromethane	3.02	101	181218	17.22	ug/l	99
8) Diethyl Ether	3.41	74	60762	16.37	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	113221	17.37	ug/l	98
10) 1,1-Dichloroethene	3.74	96	98821	16.69	ug/l	99
11) Methyl Iodide	3.95	142	69657	12.61	ug/l	99
12) Methyl Acetate	4.33	43	116581	17.03	ug/l	95
13) Acrolein	3.61	56	6146	40.54	ug/l	97
14) Acrylonitrile	4.99	53	169621	73.27	ug/l	98
15) Acetone	3.82	58	47824	80.73	ug/l	96
16) Carbon Disulfide	4.05	76	288316	16.19	ug/l	99
17) Allyl chloride	4.33	41	154685	16.60	ug/l	97
18) Methylene Chloride	4.56	84	118162	17.00	ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	106895	16.94	ug/l	98
20) Diisopropyl ether	5.96	45	330753	17.10	ug/l	98
21) 1,1-Dichloroethane	5.85	63	204498	17.25	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	119375	16.75	ug/l	97
23) tert-Butyl Alcohol	4.79	59	31836	64.66	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	261521	16.15	ug/l	99
25) Chloroform	7.37	83	204427	17.27	ug/l	98
26) Cyclohexane	7.66	56	158630	16.15	ug/l	99
29) 1,1-Dichloropropene	7.79	75	149774	17.20	ug/l	97
30) 2-Butanone	6.84	43	190102	70.97	ug/l	99
31) 2,2-Dichloropropane	6.83	77	165281	19.51	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	172533	17.47	ug/l	99
33) Carbon Tetrachloride	7.78	117	153071	17.21	ug/l	96
34) Benzene	8.04	78	466232	17.31	ug/l	100
35) Methacrylonitrile	7.17	41	37243	12.69	ug/l	95
36) 1,2-Dichloroethane	8.13	62	140769	17.28	ug/l	99
37) Trichloroethene	8.84	130	122459	17.39	ug/l	99
38) Methylcyclohexane	9.08	83	151894	16.24	ug/l	99
39) 1,2-Dichloropropane	9.12	63	123049	17.49	ug/l	98
40) Dibromomethane	9.21	93	69795	16.47	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	151049	16.91	ug/l	99
42) Vinyl Acetate	5.90	43	936567	75.91	ug/l	100
43) Ethyl Acetate	6.93	43	77172	14.06	ug/l	96
44) Isopropyl Acetate	8.17	43	148062	15.29	ug/l	97
45) 1,4-Dioxane	9.20	88	20151	280.14	ug/l	99
46) Methyl methacrylate	9.20	41	69745	14.38	ug/l	99
47) n-amyl Acetate	12.07	43	94571	12.15	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	140413	16.03	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	170894	16.99	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	101398	16.47	ug/l	98
51) Ethyl methacrylate	10.43	69	106745	14.17	ug/l	100
52) 1,3-Dichloropropane	10.71	76	167135	16.39	ug/l	99
53) Dibromochloromethane	10.90	129	112144	16.02	ug/l	99
54) 1,2-Dibromoethane	11.01	107	94159	15.46	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	258203	82.37	ug/l	100
56) Bromoform	12.13	173	73400	14.74	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	411211	72.62	ug/l	99
59) 2-Hexanone	10.75	43	254944	68.88	ug/l	99
61) Tetrachloroethene	10.63	164	109591	17.77	ug/l	96
62) Toluene	10.16	91	482808	17.49	ug/l	100
64) Chlorobenzene	11.44	112	289168	16.90	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	117582	18.20	ug/l	99
66) Ethyl Benzene	11.51	91	468206	16.37	ug/l	99
67) m/p-Xylenes	11.62	106	370273	33.65	ug/l	98
68) o-Xylene	11.95	106	177975	16.93	ug/l	98
69) Styrene	11.96	104	261078	15.62	ug/l	98
70) Isopropylbenzene	12.25	105	463560	16.59	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	118462	15.66	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	88215m	13.52	ug/l	
73) Bromobenzene	12.53	156	117988	16.05	ug/l	98
74) n-propylbenzene	12.59	91	498313	15.77	ug/l	99
75) 2-Chlorotoluene	12.68	91	317138	16.53	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	378142	16.56	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	25354	13.64	ug/l	98
78) 4-Chlorotoluene	12.77	91	300686	15.91	ug/l	100
79) tert-butylbenzene	12.99	119	324611	16.37	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	372505	16.36	ug/l	100
81) sec-Butylbenzene	13.17	105	422690	16.29	ug/l	100
82) p-Isopropyltoluene	13.29	119	357808	15.98	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	187936	15.12	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	175606	14.91	ug/l	98
85) n-Butylbenzene	13.62	91	248970	14.57	ug/l	100
86) Hexachloroethane	13.87	117	67765	15.76	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	188943	15.44	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	14590	13.79	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	65563	12.04	ug/l	98
90) Hexachlorobutadiene	15.01	225	67084	18.13	ug/l	99
91) Naphthalene	15.13	128	118550	15.54	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	71292	13.05	ug/l	99

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

