

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
 Data File : VN051613.D
 Acq On : 28 Sep 2018 10:42
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:39 PM

Quant Time: Sep 29 01:02:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 00:34:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	106666	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	565511	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	465552	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	220156	29.64	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.80%
60) 4-Bromofluorobenzene	12.40	95	193023	26.96	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.87%
63) Toluene-d8	10.09	98	677793	30.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	35817	3.826 ug/l	96
3) Chloromethane	2.06	50	47866	4.569 ug/l	96
4) Vinyl Chloride	2.18	62	46725	4.547 ug/l	97
5) Bromomethane	2.57	94	28171	5.278 ug/l	97
6) Chloroethane	2.71	64	23734	4.604 ug/l	100
7) Trichlorofluoromethane	3.02	101	60060	4.784 ug/l	98
8) Diethyl Ether	3.41	74	19444	4.930 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	35191	4.958 ug/l	98
10) 1,1-Dichloroethene	3.74	96	31748	4.929 ug/l	96
11) Methyl Iodide	3.96	142	28302	3.414 ug/l	97
12) Methyl Acetate	4.33	43	32505	5.719 ug/l	96
13) Acrolein	3.61	56	16392	26.102 ug/l	99
14) Acrylonitrile	5.00	53	54596	23.983 ug/l	97
15) Acetone	3.82	58	15039	25.197 ug/l	85
16) Carbon Disulfide	4.06	76	108157	5.211 ug/l	98
17) Allyl chloride	4.33	41	53819	4.671 ug/l	98
18) Methylene Chloride	4.56	84	39282	5.305 ug/l	94
19) trans-1,2-Dichloroethene	5.05	96	33994	4.972 ug/l	93
20) Diisopropyl ether	5.96	45	102323	4.477 ug/l	93
21) 1,1-Dichloroethane	5.85	63	69206	5.109 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	35210	4.716 ug/l	95
23) tert-Butyl Alcohol	4.79	59	11337m	26.134 ug/l	
24) Methyl tert-Butyl Ether	5.05	73	77277	4.565 ug/l	95
25) Chloroform	7.37	83	64591	4.987 ug/l	97
26) Cyclohexane	7.65	56	49201	4.197 ug/l	98
29) 1,1-Dichloropropene	7.80	75	46552	4.828 ug/l	99
30) 2-Butanone	6.84	43	66191	25.220 ug/l	98
31) 2,2-Dichloropropane	6.83	77	51796	4.977 ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	55529	5.125 ug/l	99
33) Carbon Tetrachloride	7.78	117	48663	4.997 ug/l	98
34) Benzene	8.04	78	143605	5.020 ug/l #	71
35) Methacrylonitrile	7.18	41	12551	4.126 ug/l	86
36) 1,2-Dichloroethane	8.13	62	48330	5.300 ug/l	98
37) Trichloroethene	8.84	130	38010	5.175 ug/l	97
38) Methylcyclohexane	9.08	83	49455	4.444 ug/l	96
39) 1,2-Dichloropropane	9.12	63	39910	5.091 ug/l	98
40) Dibromomethane	9.21	93	22399	5.144 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	47888	5.038	ug/l	97
42) Vinyl Acetate	5.90	43	332115	22.730	ug/l	98
43) Ethyl Acetate	6.93	43	24709	4.448	ug/l	98
44) Isopropyl Acetate	8.17	43	59492	5.469	ug/l	92
45) 1,4-Dioxane	9.20	88	5428	92.372	ug/l #	84
46) Methyl methacrylate	9.20	41	23016	4.549	ug/l	95
47) n-amyl Acetate	12.07	43	31133	3.825	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	45814	4.829	ug/l	93
49) cis-1,3-Dichloropropene	9.84	75	52756	4.756	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	32776	5.326	ug/l	94
51) Ethyl methacrylate	10.43	69	32432	4.344	ug/l	99
52) 1,3-Dichloropropane	10.71	76	53385	5.059	ug/l	99
53) Dibromochloromethane	10.90	129	35255	5.030	ug/l	93
54) 1,2-Dibromoethane	11.01	107	29302	4.962	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	75963	20.583	ug/l	99
56) Bromoform	12.13	173	22812	4.905	ug/l	96
58) 4-Methyl-2-Pentanone	9.99	43	130412	24.673	ug/l	100
59) 2-Hexanone	10.75	43	82091	23.608	ug/l	98
61) Tetrachloroethene	10.63	164	35660	5.410	ug/l	98
62) Toluene	10.16	91	148195	5.191	ug/l	99
64) Chlorobenzene	11.43	112	89045	5.159	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	35194	5.340	ug/l	99
66) Ethyl Benzene	11.51	91	135326	4.632	ug/l	96
67) m/p-Xylenes	11.62	106	101528	9.017	ug/l	99
68) o-Xylene	11.95	106	49747	4.628	ug/l	98
69) Styrene	11.97	104	72256	4.283	ug/l	100
70) Isopropylbenzene	12.25	105	128796	4.492	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	36718	5.293	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	32279m	5.648	ug/l	
73) Bromobenzene	12.53	156	34448	4.828	ug/l	97
74) n-propylbenzene	12.59	91	145939	4.372	ug/l	99
75) 2-Chlorotoluene	12.67	91	93642	4.698	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	107493	4.487	ug/l	96
77) t-1,4-Dichloro-2-butene	12.30	75	7422	3.951	ug/l	91
78) 4-Chlorotoluene	12.77	91	87375	4.438	ug/l	99
79) tert-butylbenzene	12.99	119	93796	4.519	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	100247	4.189	ug/l	98
81) sec-Butylbenzene	13.17	105	125021	4.360	ug/l	99
82) p-Isopropyltoluene	13.29	119	99429	4.057	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	56192	4.520	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	49773	4.259	ug/l	99
85) n-Butylbenzene	13.62	91	74047	3.681	ug/l	99
86) Hexachloroethane	13.87	117	24908	5.082	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	56965	4.684	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	4908	4.854	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	17461	3.067	ug/l	96
90) Hexachlorobutadiene	15.01	225	23687	5.104	ug/l	97
91) Naphthalene	15.13	128	34201	3.199	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	21395	3.737	ug/l	98

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

