

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111318\
 Data File : VN052282.D
 Acq On : 13 Nov 2018 13:17
 Operator : MD\SY
 Sample : VN1113WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 11:10:13 AM

Quant Time: Nov 14 01:06:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	47753	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	271153	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	240385	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	111691	31.51	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.03%
60) 4-Bromofluorobenzene	12.40	95	109267	28.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.70%
63) Toluene-d8	10.09	98	345320	30.55	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	67427	21.141	ug/l 99
3) Chloromethane	2.06	50	79888	21.916	ug/l 98
4) Vinyl Chloride	2.19	62	68090	19.042	ug/l 99
5) Bromomethane	2.58	94	39076	16.010	ug/l 96
6) Chloroethane	2.71	64	38155	16.688	ug/l 95
7) Trichlorofluoromethane	3.02	101	94082	19.429	ug/l 96
8) Diethyl Ether	3.42	74	33072	20.228	ug/l 80
9) 1,1,2-Trichlorotrifluoroet	3.77	101	58601	20.706	ug/l 96
10) 1,1-Dichloroethene	3.74	96	49974	18.924	ug/l 96
11) Methyl Iodide	3.96	142	73305	19.199	ug/l 98
12) Methyl Acetate	4.33	43	53252	23.958	ug/l 91
13) Acrolein	3.61	56	25158	106.709	ug/l 97
14) Acrylonitrile	4.99	53	103672	105.174	ug/l 96
15) Acetone	3.82	58	27583	118.398	ug/l 73
16) Carbon Disulfide	4.06	76	145261	18.630	ug/l 99
17) Allyl chloride	4.33	41	98616	21.994	ug/l 97
18) Methylene Chloride	4.55	84	64268	19.717	ug/l # 83
19) trans-1,2-Dichloroethene	5.05	96	54355	18.786	ug/l 90
20) Diisopropyl ether	5.95	45	223993	22.990	ug/l 95
21) 1,1-Dichloroethane	5.85	63	117679	20.667	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	66101	19.564	ug/l 95
23) tert-Butyl Alcohol	4.78	59	17671m	115.060	ug/l
24) Methyl tert-Butyl Ether	5.05	73	149633	19.987	ug/l 97
25) Chloroform	7.37	83	113740	19.894	ug/l 96
26) Cyclohexane	7.65	56	103640	20.305	ug/l # 89
29) 1,1-Dichloropropene	7.79	75	84049	19.524	ug/l 98
30) 2-Butanone	6.84	43	136505	119.068	ug/l # 81
31) 2,2-Dichloropropane	6.83	77	85082	19.186	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	93425	19.396	ug/l 96
33) Carbon Tetrachloride	7.78	117	81634	19.057	ug/l 99
34) Benzene	8.04	78	254096	20.158	ug/l 97
35) Methacrylonitrile	7.18	41	30571	19.441	ug/l # 77
36) 1,2-Dichloroethane	8.13	62	88311	20.954	ug/l 99
37) Trichloroethene	8.84	130	61840	19.601	ug/l 94
38) Methylcyclohexane	9.08	83	96020	18.284	ug/l 95
39) 1,2-Dichloropropane	9.12	63	73540	21.917	ug/l 89
40) Dibromomethane	9.21	93	40913	19.782	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	83265	19.676	ug/l	98
42) Vinyl Acetate	5.90	43	759796	113.207	ug/l	97
43) Ethyl Acetate	6.84	43	136505	23.693	ug/l #	87
44) Isopropyl Acetate	8.17	43	112310	23.544	ug/l #	89
45) 1,4-Dioxane	9.20	88	9057	416.200	ug/l #	69
46) Methyl methacrylate	9.20	41	54890	23.116	ug/l	91
47) n-amyl Acetate	12.07	43	89877	20.786	ug/l #	100
48) t-1,3-Dichloropropene	10.38	75	83139	19.785	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	97382	20.079	ug/l	91
50) 1,1,2-Trichloroethane	10.56	97	53636	19.612	ug/l	95
51) Ethyl methacrylate	10.43	69	69232	19.587	ug/l	85
52) 1,3-Dichloropropane	10.71	76	96382	20.232	ug/l	99
53) Dibromochloromethane	10.90	129	57196	19.372	ug/l	99
54) 1,2-Dibromoethane	11.00	107	51567	18.594	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	205265	106.051	ug/l	99
56) Bromoform	12.13	173	32332	18.960	ug/l #	99
58) 4-Methyl-2-Pentanone	9.98	43	300769	116.765	ug/l	95
59) 2-Hexanone	10.75	43	203802	114.911	ug/l	96
61) Tetrachloroethene	10.63	164	54720	20.931	ug/l	95
62) Toluene	10.16	91	270183	20.022	ug/l	99
64) Chlorobenzene	11.43	112	161332	18.864	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	56867	19.536	ug/l	98
66) Ethyl Benzene	11.51	91	282579	19.386	ug/l	97
67) m/p-Xylenes	11.62	106	212824	37.925	ug/l	99
68) o-Xylene	11.95	106	104454	19.523	ug/l	97
69) Styrene	11.96	104	162989	18.905	ug/l	98
70) Isopropylbenzene	12.25	105	273030	19.010	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	64021	20.265	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	57560m	20.722	ug/l	
73) Bromobenzene	12.53	156	61947	19.465	ug/l	95
74) n-propylbenzene	12.59	91	318813	19.062	ug/l	100
75) 2-Chlorotoluene	12.67	91	183959	19.078	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	221451	19.228	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	15753	18.125	ug/l	90
78) 4-Chlorotoluene	12.77	91	183297	18.876	ug/l	99
79) tert-butylbenzene	12.99	119	191001	19.039	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	221737	19.326	ug/l	99
81) sec-Butylbenzene	13.17	105	258351	18.712	ug/l	100
82) p-Isopropyltoluene	13.29	119	219488	18.811	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	108899	19.345	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	104116	18.683	ug/l	97
85) n-Butylbenzene	13.62	91	183157	18.137	ug/l	100
86) Hexachloroethane	13.88	117	36301	18.437	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	106229	19.862	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	8995	20.823	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	40639	18.718	ug/l	95
90) Hexachlorobutadiene	15.01	225	24116	20.303	ug/l	98
91) Naphthalene	15.13	128	94740	18.932	ug/l	97
92) 1,2,3-Trichlorobenzene	15.31	180	39796	21.032	ug/l	98

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

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