

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110719\
 Data File : VN059116.D
 Acq On : 7 Nov 2019 12:58
 Operator : JC/SP
 Sample : VN1107WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1107WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/8/2019 9:39:08 AM

Quant Time: Nov 08 02:26:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.17	128	71806	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	400910	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	359219	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.00	65	171124	28.08	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.60%
60) 4-Bromofluorobenzene	12.40	95	179349	28.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.13%
63) Toluene-d8	10.08	98	516437	30.45	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	76135	19.569	ug/l 99
3) Chloromethane	2.04	50	107538	20.693	ug/l 98
4) Vinyl Chloride	2.17	62	112231	20.895	ug/l 98
5) Bromomethane	2.55	94	64881	19.565	ug/l 99
6) Chloroethane	2.68	64	66313	19.642	ug/l 94
7) Trichlorofluoromethane	3.00	101	138867	21.005	ug/l 99
8) Diethyl Ether	3.39	74	57080	22.638	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	84156	22.000	ug/l 96
10) 1,1-Dichloroethene	3.72	96	82086	21.849	ug/l 87
11) Methyl Iodide	3.93	142	100726	19.251	ug/l 96
12) Methyl Acetate	4.30	43	134704	22.410	ug/l 96
13) Acrolein	3.58	56	70364	105.944	ug/l 99
14) Acrylonitrile	4.96	53	270203	114.083	ug/l 97
15) Acetone	3.79	58	89759	127.670	ug/l 88
16) Carbon Disulfide	4.03	76	230286	21.015	ug/l 100
17) Allyl chloride	4.29	41	147752	19.759	ug/l 89
18) Methylene Chloride	4.53	84	98230	21.591	ug/l 97
19) trans-1,2-Dichloroethene	5.01	96	88014	21.519	ug/l 91
20) Diisopropyl ether	5.92	45	334270	21.940	ug/l 94
21) 1,1-Dichloroethane	5.82	63	181716	21.539	ug/l 98
22) cis-1,2-Dichloroethene	6.80	96	101963	20.909	ug/l 98
23) tert-Butyl Alcohol	4.75	59	108202	111.690	ug/l # 100
24) Methyl tert-Butyl Ether	5.01	73	295217	21.063	ug/l 94
25) Chloroform	7.35	83	175164	20.818	ug/l 96
26) Cyclohexane	7.63	56	153373	20.712	ug/l # 95
29) 1,1-Dichloropropene	7.77	75	128390	20.344	ug/l 99
30) 2-Butanone	6.81	43	380583	106.717	ug/l 99
31) 2,2-Dichloropropane	6.80	77	148699	19.991	ug/l 99
32) 1,1,1-Trichloroethane	7.55	97	147912	20.264	ug/l 98
33) Carbon Tetrachloride	7.75	117	127581	20.193	ug/l 99
34) Benzene	8.02	78	396276	21.329	ug/l 98
35) Methacrylonitrile	7.16	41	67209m	21.333	ug/l
36) 1,2-Dichloroethane	8.10	62	136211	19.175	ug/l 98
37) Trichloroethene	8.82	130	95952	21.022	ug/l 99
38) Methylcyclohexane	9.06	83	143240	19.576	ug/l 99
39) 1,2-Dichloropropane	9.10	63	109274	21.521	ug/l 99
40) Dibromomethane	9.19	93	64865	20.237	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	136615	20.863	ug/l	99
42) Vinyl Acetate	5.87	43	1338032	107.129	ug/l	99
43) Ethyl Acetate	6.90	43	148154	21.166	ug/l #	93
44) Isopropyl Acetate	8.14	43	230662	20.344	ug/l	90
45) 1,4-Dioxane	9.18	88	38490	442.094	ug/l	98
46) Methyl methacrylate	9.18	41	101456	19.491	ug/l	95
47) n-amyl Acetate	12.07	43	174774	17.389	ug/l	95
48) t-1,3-Dichloropropene	10.37	75	150289	19.790	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	165427	20.744	ug/l	92
50) 1,1,2-Trichloroethane	10.55	97	98095	21.438	ug/l	98
51) Ethyl methacrylate	10.42	69	141093	19.284	ug/l	96
52) 1,3-Dichloropropane	10.70	76	167899	20.604	ug/l	99
53) Dibromochloromethane	10.90	129	100729	20.512	ug/l	98
54) 1,2-Dibromoethane	11.00	107	95920	20.224	ug/l	100
55) 2-Chloroethyl vinyl ether	9.68	63	315475	86.679	ug/l	100
56) Bromoform	12.13	173	71930	21.027	ug/l	99
58) 4-Methyl-2-Pentanone	9.97	43	736770	112.431	ug/l	99
59) 2-Hexanone	10.74	43	537320	104.589	ug/l	97
61) Tetrachloroethene	10.62	164	86257	22.221	ug/l	98
62) Toluene	10.14	91	415591	21.508	ug/l	99
64) Chlorobenzene	11.43	112	247248	20.929	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.50	131	94787	21.398	ug/l	99
66) Ethyl Benzene	11.51	91	439910	20.561	ug/l	100
67) m/p-Xylenes	11.62	106	323568	40.479	ug/l	99
68) o-Xylene	11.95	106	157020	20.263	ug/l	99
69) Styrene	11.96	104	248252	19.392	ug/l	99
70) Isopropylbenzene	12.25	105	423140	20.225	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	147021	20.874	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	127748m	20.016	ug/l	
73) Bromobenzene	12.53	156	102856	20.240	ug/l	100
74) n-propylbenzene	12.59	91	488650	19.954	ug/l	99
75) 2-Chlorotoluene	12.67	91	297308	20.178	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	354803	19.800	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	49068	20.182	ug/l	91
78) 4-Chlorotoluene	12.77	91	291181	19.174	ug/l	98
79) tert-butylbenzene	12.99	119	309217	20.198	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	353943	19.878	ug/l	99
81) sec-Butylbenzene	13.17	105	403787	19.598	ug/l	99
82) p-Isopropyltoluene	13.29	119	356365	19.262	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	173888	18.910	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	169006	18.400	ug/l	99
85) n-Butylbenzene	13.62	91	290793	17.168	ug/l	99
86) Hexachloroethane	13.88	117	70060	20.808	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	174824	19.258	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	28781	18.359	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	86486	15.088	ug/l	99
90) Hexachlorobutadiene	15.01	225	58924	19.907	ug/l	98
91) Naphthalene	15.13	128	231446	13.676	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	90715	16.258	ug/l	98

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

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