

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121218\
 Data File : VN052821.D
 Acq On : 12 Dec 2018 12:29
 Operator : MD\SY
 Sample : VN1212WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1212WBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 1:29:27 PM

Quant Time: Dec 13 04:00:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	154247	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	888540	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	778996	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	306937	29.20	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.33%
60) 4-Bromofluorobenzene	12.40	95	361067	30.32	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.07%
63) Toluene-d8	10.09	98	1055172	29.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	155314	17.680	ug/l 98
3) Chloromethane	2.06	50	206627	17.735	ug/l 99
4) Vinyl Chloride	2.19	62	217984	18.538	ug/l 98
5) Bromomethane	2.58	94	130888	19.522	ug/l 98
6) Chloroethane	2.71	64	133177	19.045	ug/l 100
7) Trichlorofluoromethane	3.03	101	279934	19.289	ug/l 99
8) Diethyl Ether	3.42	74	108978	20.337	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.77	101	177945	19.343	ug/l 97
10) 1,1-Dichloroethene	3.74	96	170028	19.657	ug/l 97
11) Methyl Iodide	3.96	142	221863	18.474	ug/l 99
12) Methyl Acetate	4.33	43	151227	20.577	ug/l 99
13) Acrolein	3.61	56	61105	70.780	ug/l 100
14) Acrylonitrile	4.99	53	324258	103.548	ug/l 98
15) Acetone	3.82	58	76620	94.478	ug/l 98
16) Carbon Disulfide	4.06	76	472139	17.241	ug/l 100
17) Allyl chloride	4.33	41	287344	19.048	ug/l 99
18) Methylene Chloride	4.56	84	199531	19.923	ug/l 95
19) trans-1,2-Dichloroethene	5.05	96	179591	19.293	ug/l 96
20) Diisopropyl ether	5.95	45	621111	19.593	ug/l 99
21) 1,1-Dichloroethane	5.85	63	358520	19.843	ug/l 97
22) cis-1,2-Dichloroethene	6.83	96	214632	20.118	ug/l 98
23) tert-Butyl Alcohol	4.78	59	54241m	116.438	ug/l
24) Methyl tert-Butyl Ether	5.05	73	482893	21.280	ug/l 97
25) Chloroform	7.37	83	347979	19.963	ug/l 98
26) Cyclohexane	7.65	56	312620	18.345	ug/l # 99
29) 1,1-Dichloropropene	7.80	75	266589	19.647	ug/l 99
30) 2-Butanone	6.83	43	373661	102.914	ug/l 99
31) 2,2-Dichloropropane	6.83	77	257736	20.632	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	291773	20.666	ug/l 98
33) Carbon Tetrachloride	7.78	117	247602	20.043	ug/l 99
34) Benzene	8.04	78	814950	19.976	ug/l 99
35) Methacrylonitrile	7.18	41	99831	22.161	ug/l 98
36) 1,2-Dichloroethane	8.13	62	249411	20.175	ug/l 99
37) Trichloroethene	8.84	130	213451	20.634	ug/l 95
38) Methylcyclohexane	9.08	83	306166	18.227	ug/l 98
39) 1,2-Dichloropropane	9.12	63	217835	19.920	ug/l 98
40) Dibromomethane	9.21	93	123565	20.910	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	265812	20.359	ug/l	98
42) Vinyl Acetate	5.90	43	1889859	96.200	ug/l	98
43) Ethyl Acetate	6.93	43	161365	20.901	ug/l #	69
44) Isopropyl Acetate	8.17	43	306381	22.627	ug/l #	82
45) 1,4-Dioxane	9.20	88	34026	459.349	ug/l	94
46) Methyl methacrylate	9.20	41	149542	21.271	ug/l	97
47) n-amyl Acetate	12.07	43	245039	21.826	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	256082	20.228	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	304992	19.774	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	177386	21.176	ug/l	98
51) Ethyl methacrylate	10.43	69	228721	21.740	ug/l	96
52) 1,3-Dichloropropane	10.71	76	304927	20.451	ug/l	100
53) Dibromochloromethane	10.90	129	193173	20.946	ug/l	99
54) 1,2-Dibromoethane	11.01	107	173727	21.224	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	645267	104.780	ug/l	99
56) Bromoform	12.13	173	128192	21.266	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	824368	109.157	ug/l	99
59) 2-Hexanone	10.75	43	557347	108.034	ug/l	98
61) Tetrachloroethene	10.63	164	224573	23.407	ug/l	97
62) Toluene	10.16	91	863024	20.097	ug/l	99
64) Chlorobenzene	11.43	112	538166	20.532	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	190452	20.933	ug/l	99
66) Ethyl Benzene	11.51	91	920098	19.880	ug/l	99
67) m/p-Xylenes	11.62	106	702745	40.755	ug/l	98
68) o-Xylene	11.95	106	344461	20.582	ug/l	99
69) Styrene	11.96	104	550172	20.367	ug/l	99
70) Isopropylbenzene	12.25	105	912608	20.494	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	206661	21.335	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	174133m	20.941	ug/l	
73) Bromobenzene	12.53	156	227873	21.159	ug/l	96
74) n-propylbenzene	12.59	91	1037721	20.001	ug/l	99
75) 2-Chlorotoluene	12.67	91	615989	20.454	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	729347	20.278	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	52331	19.922	ug/l	97
78) 4-Chlorotoluene	12.77	91	615874	20.478	ug/l	98
79) tert-butylbenzene	12.99	119	653052	20.849	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	741218	20.596	ug/l	99
81) sec-Butylbenzene	13.17	105	886337	20.315	ug/l	100
82) p-Isopropyltoluene	13.29	119	754967	20.322	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	396801	20.949	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	390060	21.314	ug/l	98
85) n-Butylbenzene	13.62	91	603635	18.916	ug/l	99
86) Hexachloroethane	13.87	117	123312	19.590	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	387616	21.504	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	30573	22.532	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	200317	22.557	ug/l	99
90) Hexachlorobutadiene	15.01	225	124059	21.296	ug/l	98
91) Naphthalene	15.13	128	413819	23.075	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	188075	22.981	ug/l	98

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

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