

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN010419\
 Data File : VN053276.D
 Acq On : 4 Jan 2019 8:55
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 1/7/2019 11:09:52 AM

Quant Time: Jan 04 10:01:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 10:33:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	139852	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	775957	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	703624	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	264795	29.80	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.33%
60) 4-Bromofluorobenzene	12.40	95	329412	30.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.00%
63) Toluene-d8	10.09	98	962947	30.38	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	173968	18.670 ug/l	99
3) Chloromethane	2.06	50	196354	17.954 ug/l	100
4) Vinyl Chloride	2.19	62	186027	17.286 ug/l	96
5) Bromomethane	2.57	94	123391	17.783 ug/l	99
6) Chloroethane	2.71	64	108769	17.545 ug/l	98
7) Trichlorofluoromethane	3.02	101	239576	18.026 ug/l	100
8) Diethyl Ether	3.41	74	86252	17.468 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.77	101	153669	18.403 ug/l	97
10) 1,1-Dichloroethene	3.74	96	140447	17.235 ug/l	94
11) Methyl Iodide	3.96	142	210851	17.669 ug/l	99
12) Methyl Acetate	4.32	43	116047	18.271 ug/l	100
13) Acrolein	3.61	56	76301	100.620 ug/l	98
14) Acrylonitrile	4.98	53	264420	93.060 ug/l	100
15) Acetone	3.82	58	74330	123.089 ug/l	91
16) Carbon Disulfide	4.06	76	430344	17.167 ug/l	100
17) Allyl chloride	4.33	41	208951	16.300 ug/l	98
18) Methylene Chloride	4.55	84	163746	17.558 ug/l	94
19) trans-1,2-Dichloroethene	5.05	96	151185	17.555 ug/l	95
20) Diisopropyl ether	5.95	45	477510	17.393 ug/l	96
21) 1,1-Dichloroethane	5.85	63	279801	17.504 ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	169225	17.444 ug/l	98
23) tert-Butyl Alcohol	4.78	59	43796	91.434 ug/l #	100
24) Methyl tert-Butyl Ether	5.04	73	368058	17.321 ug/l	96
25) Chloroform	7.37	83	275215	17.912 ug/l	100
26) Cyclohexane	7.65	56	250043	16.771 ug/l #	97
29) 1,1-Dichloropropene	7.79	75	213008	18.122 ug/l	98
30) 2-Butanone	6.83	43	315506	107.593 ug/l #	81
31) 2,2-Dichloropropane	6.83	77	202844	17.827 ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	223260	18.129 ug/l	97
33) Carbon Tetrachloride	7.77	117	195170	18.105 ug/l	98
34) Benzene	8.04	78	649203	18.379 ug/l	100
35) Methacrylonitrile	7.17	41	70723	18.690 ug/l	97
36) 1,2-Dichloroethane	8.12	62	191407	18.665 ug/l #	89
37) Trichloroethene	8.83	130	178517	18.655 ug/l	93
38) Methylcyclohexane	9.08	83	250045	18.188 ug/l	97
39) 1,2-Dichloropropane	9.12	63	169734	18.401 ug/l	98
40) Dibromomethane	9.21	93	97305	18.653 ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	209016	18.658	ug/l	97
42) Vinyl Acetate	5.90	43	1466453	91.664	ug/l	97
43) Ethyl Acetate	7.20	43	39180	5.983	ug/l	100
44) Isopropyl Acetate	8.16	43	231288	18.960	ug/l	98
45) 1,4-Dioxane	9.20	88	27609	370.111	ug/l	93
46) Methyl methacrylate	9.20	41	112085	18.188	ug/l	95
47) n-amyl Acetate	12.07	43	188554	17.600	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	202066	17.673	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	240953	17.897	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	141607	18.933	ug/l	99
51) Ethyl methacrylate	10.43	69	177099	18.168	ug/l	93
52) 1,3-Dichloropropane	10.71	76	241345	18.732	ug/l	100
53) Dibromochloromethane	10.90	129	154345	18.373	ug/l	98
54) 1,2-Dibromoethane	11.00	107	139309	18.463	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	549743	98.269	ug/l	97
56) Bromoform	12.13	173	103949	18.089	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	644427	96.114	ug/l	98
59) 2-Hexanone	10.75	43	459738	99.322	ug/l	98
61) Tetrachloroethene	10.63	164	199501	19.186	ug/l	97
62) Toluene	10.16	91	702449	18.203	ug/l	100
64) Chlorobenzene	11.43	112	439664	18.156	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	152894	17.999	ug/l	99
66) Ethyl Benzene	11.51	91	741716	17.724	ug/l	98
67) m/p-Xylenes	11.62	106	583588	36.873	ug/l	97
68) o-Xylene	11.95	106	278660	18.169	ug/l	97
69) Styrene	11.96	104	455349	18.189	ug/l	99
70) Isopropylbenzene	12.25	105	733286	18.172	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	152775	17.986	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	137075m	18.428	ug/l	
73) Bromobenzene	12.53	156	191617	18.474	ug/l	94
74) n-propylbenzene	12.59	91	849629	18.600	ug/l	98
75) 2-Chlorotoluene	12.67	91	500527	18.502	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	602953	18.837	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	43634	16.695	ug/l	98
78) 4-Chlorotoluene	12.77	91	510410	18.535	ug/l	98
79) tert-butylbenzene	12.99	119	519858	18.622	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	606037	18.890	ug/l	98
81) sec-Butylbenzene	13.17	105	704022	19.045	ug/l	100
82) p-Isopropyltoluene	13.29	119	614990	19.253	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	333379	18.877	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	321973	18.703	ug/l	98
85) n-Butylbenzene	13.62	91	493431	18.995	ug/l	99
86) Hexachloroethane	13.88	117	89015	17.454	ug/l	92
87) 1,2-Dichlorobenzene	13.65	146	299597	18.257	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	15176	12.493	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	60982	7.656	ug/l	98
90) Hexachlorobutadiene	15.01	225	72205	14.977	ug/l	100
91) Naphthalene	15.13	128	85993	5.089	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	34144	4.805	ug/l	98

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

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