

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071819\
 Data File : VN056809.D
 Acq On : 18 Jul 2019 12:52
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 11:31:39 PM

Quant Time: Jul 19 05:53:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	49475	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	267728	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	233638	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	99520	29.70	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.00%
60) 4-Bromofluorobenzene	12.40	95	107635	30.10	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.33%
63) Toluene-d8	10.09	98	324174	30.37	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	57436	20.430 ug/l	96
3) Chloromethane	2.06	50	75843	20.172 ug/l	99
4) Vinyl Chloride	2.18	62	74057	20.025 ug/l	97
5) Bromomethane	2.55	94	45985	19.728 ug/l	98
6) Chloroethane	2.69	64	41795	19.779 ug/l	99
7) Trichlorofluoromethane	3.01	101	96528	20.351 ug/l	96
8) Diethyl Ether	3.41	74	38432	19.813 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	59728	20.194 ug/l	98
10) 1,1-Dichloroethene	3.73	96	58104	19.913 ug/l	93
11) Methyl Iodide	3.95	142	71859	18.531 ug/l	99
12) Methyl Acetate	4.33	43	73055	18.703 ug/l	97
13) Acrolein	3.60	56	30867	112.087 ug/l	97
14) Acrylonitrile	4.99	53	173054	100.574 ug/l	98
15) Acetone	3.82	58	54459	91.689 ug/l	98
16) Carbon Disulfide	4.05	76	143754	18.679 ug/l	99
17) Allyl chloride	4.32	41	98848	19.366 ug/l	96
18) Methylene Chloride	4.55	84	68254	19.923 ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	61339	19.636 ug/l	96
20) Diisopropyl ether	5.95	45	207216	20.374 ug/l	99
21) 1,1-Dichloroethane	5.85	63	117786	20.269 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	73396	20.093 ug/l	100
23) tert-Butyl Alcohol	4.79	59	60952	101.548 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	187506	20.147 ug/l	100
25) Chloroform	7.37	83	116212	20.526 ug/l	100
26) Cyclohexane	7.65	56	105157	19.468 ug/l	# 98
29) 1,1-Dichloropropene	7.79	75	85352	20.056 ug/l	99
30) 2-Butanone	6.84	43	239954	97.385 ug/l	100
31) 2,2-Dichloropropane	6.82	77	86022	20.886 ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	94030	20.728 ug/l	99
33) Carbon Tetrachloride	7.77	117	79770	20.435 ug/l	98
34) Benzene	8.04	78	271427	20.758 ug/l	99
35) Methacrylonitrile	7.17	41	35839	19.039 ug/l	98
36) 1,2-Dichloroethane	8.12	62	87268	20.776 ug/l	100
37) Trichloroethene	8.83	130	72044	20.287 ug/l	97
38) Methylcyclohexane	9.08	83	105071	19.544 ug/l	99
39) 1,2-Dichloropropane	9.12	63	72858	20.758 ug/l	97
40) Dibromomethane	9.21	93	46193	20.663 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	84045	20.399	ug/l	99
42) Vinyl Acetate	5.90	43	843862	102.904	ug/l	100
43) Ethyl Acetate	6.93	43	89801	20.168	ug/l	96
44) Isopropyl Acetate	8.17	43	137509	19.801	ug/l #	87
45) 1,4-Dioxane	9.20	88	30034	427.481	ug/l	95
46) Methyl methacrylate	9.20	41	66077	19.805	ug/l	95
47) n-amyl Acetate	12.07	43	106987	18.837	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	89207	19.684	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	103890	20.320	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	68811	21.127	ug/l	99
51) Ethyl methacrylate	10.43	69	99687	19.899	ug/l	99
52) 1,3-Dichloropropane	10.71	76	114970	21.097	ug/l	100
53) Dibromochloromethane	10.90	129	67094	20.383	ug/l	98
54) 1,2-Dibromoethane	11.00	107	69212	20.447	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	231553	95.581	ug/l	99
56) Bromoform	12.13	173	48072	19.728	ug/l	97
58) 4-Methyl-2-Pentanone	9.98	43	456261	103.757	ug/l	100
59) 2-Hexanone	10.75	43	329993	98.860	ug/l	99
61) Tetrachloroethene	10.63	164	73973	22.034	ug/l	98
62) Toluene	10.16	91	285772	20.825	ug/l	99
64) Chlorobenzene	11.43	112	171450	20.485	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	65323	21.288	ug/l	99
66) Ethyl Benzene	11.51	91	299783	20.210	ug/l	99
67) m/p-Xylenes	11.62	106	228406	40.802	ug/l	99
68) o-Xylene	11.95	106	112369	20.580	ug/l	98
69) Styrene	11.96	104	179520	19.842	ug/l	99
70) Isopropylbenzene	12.25	105	293405	20.501	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	97393	20.966	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	85274m	21.478	ug/l	
73) Bromobenzene	12.53	156	75633	20.223	ug/l	99
74) n-propylbenzene	12.59	91	321009	19.881	ug/l	99
75) 2-Chlorotoluene	12.67	91	194153	19.965	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	248884	20.388	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	24143	18.293	ug/l	96
78) 4-Chlorotoluene	12.77	91	183245	19.432	ug/l	98
79) tert-butylbenzene	12.99	119	212945	20.506	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	244098	20.162	ug/l	99
81) sec-Butylbenzene	13.17	105	274664	19.982	ug/l	100
82) p-Isopropyltoluene	13.29	119	250128	20.009	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	120083	19.264	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	110915	18.563	ug/l	99
85) n-Butylbenzene	13.61	91	188459	18.277	ug/l	99
86) Hexachloroethane	13.87	117	39812	20.298	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	123921	19.782	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	15223	18.994	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	52379	15.545	ug/l	96
90) Hexachlorobutadiene	15.01	225	44330	20.236	ug/l	98
91) Naphthalene	15.13	128	128593	14.190	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	56583	16.015	ug/l	99

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

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