

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083019\
 Data File : VN057588.D
 Acq On : 30 Aug 2019 14:43
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 8/31/2019 10:01:13 AM

Quant Time: Aug 31 00:29:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N083019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Aug 31 00:00:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	83022	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	496640	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	428118	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	202357	31.63	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.43%
60) 4-Bromofluorobenzene	12.40	95	188658	28.99	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.63%
63) Toluene-d8	10.08	98	608743	30.70	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.33%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	91093	20.630 ug/l	97
3) Chloromethane	2.06	50	83880	21.470 ug/l	99
4) Vinyl Chloride	2.18	62	132693	21.891 ug/l	98
5) Bromomethane	2.56	94	122803	22.054 ug/l	98
6) Chloroethane	2.70	64	88887	21.664 ug/l	97
7) Trichlorofluoromethane	3.01	101	300910	22.467 ug/l	96
8) Diethyl Ether	3.40	74	95683	22.205 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	183156	22.848 ug/l	97
10) 1,1-Dichloroethene	3.72	96	166188	22.567 ug/l	99
11) Methyl Iodide	3.93	142	273218	21.462 ug/l	98
12) Methyl Acetate	4.32	43	83817	21.109 ug/l	98
13) Acrolein	3.59	56	52566	103.890 ug/l	95
14) Acrylonitrile	4.98	53	163292	104.672 ug/l #	92
15) Acetone	3.81	58	89368	106.140 ug/l	99
16) Carbon Disulfide	4.03	76	150577	19.598 ug/l	100
17) Allyl chloride	4.30	41	107511	20.462 ug/l	99
18) Methylene Chloride	4.53	84	87095	20.585 ug/l	97
19) trans-1,2-Dichloroethene	5.02	96	89043	21.173 ug/l	96
20) Diisopropyl ether	5.94	45	264810	21.105 ug/l	99
21) 1,1-Dichloroethane	5.83	63	165154	20.847 ug/l	97
22) cis-1,2-Dichloroethene	6.82	96	115408	20.592 ug/l	97
23) tert-Butyl Alcohol	4.80	59	65334	112.928 ug/l #	100
24) Methyl tert-Butyl Ether	5.03	73	283458	20.916 ug/l	99
25) Chloroform	7.36	83	193235	20.075 ug/l	99
26) Cyclohexane	7.64	56	137674	20.841 ug/l #	96
29) 1,1-Dichloropropene	7.78	75	133398	19.847 ug/l	99
30) 2-Butanone	6.82	43	221574	101.643 ug/l #	98
31) 2,2-Dichloropropane	6.81	77	155212	19.304 ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	178316	19.788 ug/l	99
33) Carbon Tetrachloride	7.76	117	143574	18.778 ug/l	96
34) Benzene	8.03	78	401762	19.938 ug/l	95
35) Methacrylonitrile	7.17	41	47030	21.797 ug/l	92
36) 1,2-Dichloroethane	8.11	62	155511	20.917 ug/l	100
37) Trichloroethene	8.83	130	116024	19.880 ug/l	96
38) Methylcyclohexane	9.07	83	161487	19.726 ug/l	99
39) 1,2-Dichloropropane	9.11	63	100453	20.373 ug/l	97
40) Dibromomethane	9.20	93	73825	19.447 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	150533	19.355	ug/l	99
42) Vinyl Acetate	5.88	43	1045567	107.957	ug/l	99
43) Ethyl Acetate	6.92	43	93160	22.158	ug/l #	89
44) Isopropyl Acetate	8.16	43	173556	20.636	ug/l	98
45) 1,4-Dioxane	9.20	88	29925	413.246	ug/l #	91
46) Methyl methacrylate	9.19	41	78371	20.092	ug/l	95
47) n-amyl Acetate	12.07	43	139367	20.017	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	138863	17.988	ug/l	96
49) cis-1,3-Dichloropropene	9.83	75	156823	18.757	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	105232	19.422	ug/l	97
51) Ethyl methacrylate	10.43	69	134233	19.035	ug/l	97
52) 1,3-Dichloropropane	10.70	76	168069	19.908	ug/l	95
53) Dibromochloromethane	10.90	129	109767	17.994	ug/l	99
54) 1,2-Dibromoethane	11.00	107	104935	18.686	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	158673	91.672	ug/l	96
56) Bromoform	12.13	173	67762	16.987	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	492507	113.844	ug/l	100
59) 2-Hexanone	10.75	43	326266	106.664	ug/l	95
61) Tetrachloroethene	10.63	164	107145	19.576	ug/l	94
62) Toluene	10.15	91	459143	21.150	ug/l	100
64) Chlorobenzene	11.43	112	276675	19.792	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	107708	19.415	ug/l	98
66) Ethyl Benzene	11.51	91	508135	21.758	ug/l	100
67) m/p-Xylenes	11.62	106	376313	40.274	ug/l	100
68) o-Xylene	11.95	106	187105	19.930	ug/l	99
69) Styrene	11.96	104	286130	19.230	ug/l	98
70) Isopropylbenzene	12.25	105	504972	21.458	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	127022	20.293	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	106597m	20.060	ug/l	
73) Bromobenzene	12.53	156	114715	19.069	ug/l	99
74) n-propylbenzene	12.59	91	515051	21.231	ug/l	100
75) 2-Chlorotoluene	12.67	91	314791	20.090	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	418144	20.997	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	31281	18.586	ug/l	91
78) 4-Chlorotoluene	12.77	91	291824	19.361	ug/l	100
79) tert-butylbenzene	12.99	119	366826	20.155	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	398404	21.223	ug/l	97
81) sec-Butylbenzene	13.17	105	461950	20.879	ug/l	99
82) p-Isopropyltoluene	13.29	119	408590	20.825	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	173349	17.815	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	161406	17.295	ug/l	99
85) n-Butylbenzene	13.62	91	290819	19.032	ug/l	100
86) Hexachloroethane	13.88	117	67989	18.121	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	173635	18.566	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16165	17.197	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	45442	13.186	ug/l	98
90) Hexachlorobutadiene	15.01	225	54810	18.491	ug/l	98
91) Naphthalene	15.13	128	140547	14.653	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	48901	14.324	ug/l	99

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

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