

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083019\
 Data File : VN057576.D
 Acq On : 30 Aug 2019 9:08
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/31/2019 10:00:17 AM

Quant Time: Aug 30 23:36:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N083019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 30 23:13:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	81046	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	469404	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	384201	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	199700	26.48	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	88.27%
60) 4-Bromofluorobenzene	12.40	95	153416	24.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	81.80%
63) Toluene-d8	10.09	98	571861	30.05	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.17%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	21872	5.116 ug/l	92
3) Chloromethane	2.06	50	22130	3.777 ug/l	97
4) Vinyl Chloride	2.19	62	32885	4.309 ug/l	88
5) Bromomethane	2.55	94	32760	6.172 ug/l	96
6) Chloroethane	2.70	64	22808	4.388 ug/l	91
7) Trichlorofluoromethane	3.01	101	74911	5.724 ug/l	99
8) Diethyl Ether	3.40	74	25246	5.194 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	44846	5.968 ug/l	91
10) 1,1-Dichloroethene	3.72	96	42386	5.926 ug/l	94
11) Methyl Iodide	3.93	142	66929	8.493 ug/l	99
12) Methyl Acetate	4.31	43	27993	4.322 ug/l	99
13) Acrolein	3.59	56	15945	19.633 ug/l	87
14) Acrylonitrile	4.98	53	41272	18.093 ug/l #	52
15) Acetone	3.81	58	25260	23.447 ug/l	99
16) Carbon Disulfide	4.03	76	40398	3.501 ug/l	98
17) Allyl chloride	4.30	41	28297	3.245 ug/l	95
18) Methylene Chloride	4.54	84	22783m	4.584 ug/l	
19) trans-1,2-Dichloroethene	5.01	96	22134	4.677 ug/l	88
20) Diisopropyl ether	5.94	45	65615	3.483 ug/l	91
21) 1,1-Dichloroethane	5.83	63	42241	4.207 ug/l	96
22) cis-1,2-Dichloroethene	6.81	96	29546	5.104 ug/l	99
23) tert-Butyl Alcohol	4.79	59	16496	19.787 ug/l #	100
24) Methyl tert-Butyl Ether	5.03	73	72088	4.607 ug/l #	69
25) Chloroform	7.36	83	49569	4.810 ug/l	100
26) Cyclohexane	7.63	56	34583	3.887 ug/l #	97
29) 1,1-Dichloropropene	7.78	75	33723	4.363 ug/l	98
30) 2-Butanone	6.83	43	58942	16.803 ug/l #	96
31) 2,2-Dichloropropane	6.81	77	41519	4.691 ug/l #	76
32) 1,1,1-Trichloroethane	7.55	97	44845m	4.952 ug/l	
33) Carbon Tetrachloride	7.76	117	36292	4.815 ug/l	94
34) Benzene	8.03	78	101349	4.455 ug/l #	66
35) Methacrylonitrile	7.16	41	10833	3.102 ug/l	97
36) 1,2-Dichloroethane	8.11	62	38486	4.324 ug/l	100
37) Trichloroethene	8.82	130	28985	5.364 ug/l	98
38) Methylcyclohexane	9.07	83	37581	4.256 ug/l	92
39) 1,2-Dichloropropane	9.11	63	26121	4.142 ug/l	97
40) Dibromomethane	9.20	93	19010	4.733 ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	36179	4.264	ug/l	100
42) Vinyl Acetate	5.88	43	257442m	16.263	ug/l	
43) Ethyl Acetate	6.92	43	19793	2.887	ug/l #	81
44) Isopropyl Acetate	8.16	43	43486	3.307	ug/l	99
45) 1,4-Dioxane	9.20	88	7099	85.327	ug/l #	84
46) Methyl methacrylate	9.19	41	20702	3.305	ug/l	94
47) n-amyl Acetate	12.07	43	31099	2.902	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	33260	3.756	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	38728	3.996	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	26329	4.975	ug/l	91
51) Ethyl methacrylate	10.43	69	31740	3.737	ug/l	97
52) 1,3-Dichloropropane	10.71	76	40745	4.316	ug/l	97
53) Dibromochloromethane	10.90	129	24917	4.386	ug/l	99
54) 1,2-Dibromoethane	11.00	107	25074	4.596	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	35624	16.725	ug/l	99
56) Bromoform	12.13	173	14454	4.170	ug/l #	64
58) 4-Methyl-2-Pentanone	9.98	43	118724	17.299	ug/l	98
59) 2-Hexanone	10.75	43	79210	16.659	ug/l	99
61) Tetrachloroethene	10.63	164	29270	6.501	ug/l	90
62) Toluene	10.15	91	110483	4.825	ug/l	99
64) Chlorobenzene	11.43	112	65190	5.101	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	24662	5.079	ug/l	93
66) Ethyl Benzene	11.51	91	117261	4.751	ug/l	99
67) m/p-Xylenes	11.62	106	82378	9.464	ug/l	98
68) o-Xylene	11.94	106	39934	4.663	ug/l	93
69) Styrene	11.96	104	58227	4.212	ug/l	98
70) Isopropylbenzene	12.25	105	110700	4.781	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	28364	4.374	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	25655m	4.395	ug/l	
73) Bromobenzene	12.53	156	23870	4.969	ug/l	96
74) n-propylbenzene	12.59	91	108258	4.156	ug/l	98
75) 2-Chlorotoluene	12.67	91	65930	4.300	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	86373	4.544	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	6650	3.312	ug/l	99
78) 4-Chlorotoluene	12.77	91	55841	3.798	ug/l	98
79) tert-butylbenzene	12.99	119	81694	5.001	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	70363	3.938	ug/l	97
81) sec-Butylbenzene	13.17	105	96713	4.515	ug/l	98
82) p-Isopropyltoluene	13.29	119	76990	4.215	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	30991	4.116	ug/l	96
84) 1,4-Dichlorobenzene	13.37	146	30060	4.099	ug/l	96
85) n-Butylbenzene	13.62	91	52139	3.349	ug/l	99
86) Hexachloroethane	13.88	117	13777	3.894	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	29436	3.981	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	3669	3.418	ug/l #	33
89) 1,2,4-Trichlorobenzene	14.91	180	8499	3.076	ug/l	97
90) Hexachlorobutadiene	15.01	225	12385	5.785	ug/l	99
91) Naphthalene	15.13	128	26293	3.026	ug/l	96
92) 1,2,3-Trichlorobenzene	15.30	180	8801	3.227	ug/l	98

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

