

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072419\
 Data File : VN056886.D
 Acq On : 23 Jul 2019 19:03
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 2:19:47 PM

Quant Time: Jul 24 03:25:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 02:31:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	60976	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	329593	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	264470	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	120394	29.35	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.83%
60) 4-Bromofluorobenzene	12.40	95	105693	26.31	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.70%
63) Toluene-d8	10.09	98	392352	32.24	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	107.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	15994	4.616	ug/l 99
3) Chloromethane	2.06	50	21711	4.755	ug/l 94
4) Vinyl Chloride	2.18	62	20214	4.517	ug/l 96
5) Bromomethane	2.55	94	14369	5.107	ug/l 96
6) Chloroethane	2.70	64	11925	4.679	ug/l 97
7) Trichlorofluoromethane	3.02	101	26099	4.610	ug/l 96
8) Diethyl Ether	3.40	74	9588	4.168	ug/l 90
9) 1,1,2-Trichlorotrifluoroet	3.74	101	16977	4.803	ug/l 97
10) 1,1-Dichloroethene	3.73	96	15912	4.528	ug/l 93
11) Methyl Iodide	3.95	142	20120	4.228	ug/l 97
12) Methyl Acetate	4.33	43	30257	6.484	ug/l 94
13) Acrolein	3.60	56	11434	30.995	ug/l 93
14) Acrylonitrile	4.99	53	36620	18.229	ug/l 92
15) Acetone	3.82	58	9743	15.238	ug/l 84
16) Carbon Disulfide	4.04	76	40546	4.357	ug/l 98
17) Allyl chloride	4.32	41	26644	4.368	ug/l 90
18) Methylene Chloride	4.55	84	19068	4.624	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	16798	4.491	ug/l 99
20) Diisopropyl ether	5.95	45	53197	4.350	ug/l 92
21) 1,1-Dichloroethane	5.85	63	32209	4.599	ug/l 96
22) cis-1,2-Dichloroethene	6.83	96	19445	4.427	ug/l 97
23) tert-Butyl Alcohol	4.81	59	10710m	15.144	ug/l
24) Methyl tert-Butyl Ether	5.05	73	47979	4.323	ug/l # 75
25) Chloroform	7.37	83	31752	4.671	ug/l 99
26) Cyclohexane	7.65	56	27257	4.232	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	21617	4.266	ug/l 99
30) 2-Butanone	6.84	43	45172	16.419	ug/l 97
31) 2,2-Dichloropropane	6.82	77	21403m	4.376	ug/l
32) 1,1,1-Trichloroethane	7.57	97	24977	4.581	ug/l 98
33) Carbon Tetrachloride	7.77	117	21205	4.522	ug/l 97
34) Benzene	8.04	78	74418	4.741	ug/l # 67
35) Methacrylonitrile	7.18	41	9143	3.970	ug/l 96
36) 1,2-Dichloroethane	8.13	62	23293	4.649	ug/l 98
37) Trichloroethene	8.83	130	19859	4.681	ug/l 99
38) Methylcyclohexane	9.08	83	27918	4.373	ug/l 97
39) 1,2-Dichloropropane	9.12	63	19643	4.673	ug/l 98
40) Dibromomethane	9.21	93	12229	4.588	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	21803	4.413	ug/l	96
42) Vinyl Acetate	5.90	43	186433	19.297	ug/l	99
43) Ethyl Acetate	6.93	43	18162	3.561	ug/l	98
44) Isopropyl Acetate	8.17	43	30352	3.735	ug/l #	88
45) 1,4-Dioxane	9.21	88	5675	70.705	ug/l	99
46) Methyl methacrylate	9.20	41	15426	3.961	ug/l	96
47) n-amyl Acetate	12.07	43	19998	3.034	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	21294	3.951	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	25351	4.144	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	17162	4.400	ug/l	97
51) Ethyl methacrylate	10.43	69	22008	3.723	ug/l	94
52) 1,3-Dichloropropane	10.71	76	28552	4.409	ug/l	99
53) Dibromochloromethane	10.90	129	15592	3.951	ug/l	98
54) 1,2-Dibromoethane	11.01	107	16569	4.121	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	45318	16.112	ug/l	99
56) Bromoform	12.12	173	9889	3.421	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	90460	19.250	ug/l	99
59) 2-Hexanone	10.75	43	57641	16.613	ug/l	99
61) Tetrachloroethene	10.63	164	20319	5.384	ug/l	96
62) Toluene	10.15	91	75886	4.987	ug/l	99
64) Chlorobenzene	11.43	112	43820	4.727	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	16781	4.895	ug/l	98
66) Ethyl Benzene	11.51	91	72530	4.437	ug/l	99
67) m/p-Xylenes	11.62	106	53458	8.690	ug/l	96
68) o-Xylene	11.95	106	27379	4.535	ug/l	98
69) Styrene	11.96	104	38556	3.877	ug/l	99
70) Isopropylbenzene	12.25	105	69733	4.416	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	20510	4.074	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	19687m	4.597	ug/l	
73) Bromobenzene	12.52	156	17751	4.314	ug/l	98
74) n-propylbenzene	12.59	91	70204	3.992	ug/l	99
75) 2-Chlorotoluene	12.67	91	45329	4.249	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	58790	4.394	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	4503	3.163	ug/l	98
78) 4-Chlorotoluene	12.77	91	37355	3.631	ug/l	99
79) tert-butylbenzene	12.99	119	51382	4.494	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	54125	4.073	ug/l	99
81) sec-Butylbenzene	13.17	105	64757	4.299	ug/l	99
82) p-Isopropyltoluene	13.29	119	54969	4.026	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	24121	3.561	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	20721	3.206	ug/l	100
85) n-Butylbenzene	13.61	91	36448	3.267	ug/l	99
86) Hexachloroethane	13.87	117	8913	4.087	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	24349	3.565	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	2556	2.977	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	7115	1.993	ug/l	98
90) Hexachlorobutadiene	15.01	225	10410	4.349	ug/l	98
91) Naphthalene	15.13	128	18903	1.955	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	9702	2.561	ug/l	98

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

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