

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057470.D
 Acq On : 23 Aug 2019 13:24
 Operator : JC/SP
 Sample : VN0823WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0823WBS01

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:12:14 PM

Quant Time: Aug 23 23:48:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 23:15:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	67546	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	380005	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	321737	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	195968	30.09	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.30%
60) 4-Bromofluorobenzene	12.40	95	151026	28.47	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.90%
63) Toluene-d8	10.09	98	489398	30.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	72171	20.424	ug/l 99
3) Chloromethane	2.05	50	113885	21.462	ug/l 100
4) Vinyl Chloride	2.17	62	143525	21.291	ug/l 99
5) Bromomethane	2.55	94	90874	20.838	ug/l 99
6) Chloroethane	2.69	64	92663	20.521	ug/l 96
7) Trichlorofluoromethane	3.00	101	230871	21.532	ug/l 94
8) Diethyl Ether	3.39	74	86158	20.917	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.73	101	114893	19.025	ug/l 100
10) 1,1-Dichloroethene	3.71	96	123042	21.104	ug/l 96
11) Methyl Iodide	3.92	142	90716	17.310	ug/l 100
12) Methyl Acetate	4.30	43	120038	20.438	ug/l 94
13) Acrolein	3.58	56	75596	101.208	ug/l 99
14) Acrylonitrile	4.96	53	214905	105.328	ug/l 99
15) Acetone	3.80	58	54968	57.590	ug/l 97
16) Carbon Disulfide	4.02	76	213689	20.577	ug/l 99
17) Allyl chloride	4.29	41	162036	20.372	ug/l 98
18) Methylene Chloride	4.52	84	89081	20.834	ug/l 97
19) trans-1,2-Dichloroethene	5.01	96	80694	20.042	ug/l 98
20) Diisopropyl ether	5.93	45	355548	20.938	ug/l 96
21) 1,1-Dichloroethane	5.82	63	184178	20.873	ug/l 97
22) cis-1,2-Dichloroethene	6.81	96	98996	20.215	ug/l 99
23) tert-Butyl Alcohol	4.79	59	78145	105.436	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	280330	20.811	ug/l 99
25) Chloroform	7.36	83	176979	20.202	ug/l 99
26) Cyclohexane	7.63	56	159212	20.263	ug/l # 99
29) 1,1-Dichloropropene	7.77	75	131077	20.296	ug/l 98
30) 2-Butanone	6.82	43	322596	103.894	ug/l 99
31) 2,2-Dichloropropane	6.80	77	155821	21.117	ug/l 99
32) 1,1,1-Trichloroethane	7.55	97	151437	20.512	ug/l 98
33) Carbon Tetrachloride	7.75	117	124605	20.325	ug/l 99
34) Benzene	8.03	78	389371	20.502	ug/l 99
35) Methacrylonitrile	7.16	41	64169	20.420	ug/l 94
36) 1,2-Dichloroethane	8.11	62	152801	20.524	ug/l # 88
37) Trichloroethene	8.82	130	88111	20.335	ug/l 94
38) Methylcyclohexane	9.07	83	143774	19.834	ug/l 99
39) 1,2-Dichloropropane	9.11	63	112458	20.825	ug/l 99
40) Dibromomethane	9.20	93	69003	20.908	ug/l 99

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

41) Bromodichloromethane	9.39	83	140072	20.012	ug/l #	99
42) Vinyl Acetate	5.87	43	1438052	103.492	ug/l	100
43) Ethyl Acetate	6.91	43	147745m	24.445	ug/l	
44) Isopropyl Acetate	8.16	43	239181	20.731	ug/l #	92
45) 1,4-Dioxane	9.20	88	29816m	429.936	ug/l	
46) Methyl methacrylate	9.19	41	114855	20.962	ug/l	98
47) n-amyl Acetate	12.07	43	185773	20.006	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	146143	19.764	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	161730	19.900	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	88020	20.339	ug/l	97
51) Ethyl methacrylate	10.43	69	143042	19.884	ug/l	99
52) 1,3-Dichloropropane	10.70	76	158967	20.148	ug/l	99
53) Dibromochloromethane	10.90	129	91580	19.851	ug/l	99
54) 1,2-Dibromoethane	11.00	107	88129	19.903	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	165146	93.130	ug/l	98
56) Bromoform	12.13	173	52661	19.126	ug/l #	95
58) 4-Methyl-2-Pentanone	9.98	43	680153	107.760	ug/l	100
59) 2-Hexanone	10.75	43	462012	105.606	ug/l	99
61) Tetrachloroethene	10.63	164	75924	20.577	ug/l	94
62) Toluene	10.15	91	400693	20.377	ug/l	99
64) Chlorobenzene	11.43	112	216935	20.293	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.50	131	82444	20.293	ug/l	98
66) Ethyl Benzene	11.51	91	427134	20.297	ug/l	99
67) m/p-Xylenes	11.62	106	293530	40.214	ug/l	100
68) o-Xylene	11.95	106	148861	20.637	ug/l	99
69) Styrene	11.96	104	228495	19.829	ug/l	99
70) Isopropylbenzene	12.25	105	392616	20.346	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	119013	21.327	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	112265m	22.162	ug/l	
73) Bromobenzene	12.53	156	77967	19.961	ug/l	97
74) n-propylbenzene	12.59	91	438384	19.923	ug/l	99
75) 2-Chlorotoluene	12.68	91	259310	20.010	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	318535	20.114	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	36409	20.042	ug/l	91
78) 4-Chlorotoluene	12.77	91	238494	19.478	ug/l	98
79) tert-butylbenzene	12.99	119	270616	20.082	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	293201	19.859	ug/l	98
81) sec-Butylbenzene	13.17	105	353905	19.930	ug/l	99
82) p-Isopropyltoluene	13.29	119	292399	19.586	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	113838	18.722	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	109141	18.451	ug/l	99
85) n-Butylbenzene	13.62	91	239640	18.412	ug/l	98
86) Hexachloroethane	13.88	117	61655	20.468	ug/l	95
87) 1,2-Dichlorobenzene	13.66	146	114087	19.105	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18333	19.576	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	31729	14.181	ug/l	97
90) Hexachlorobutadiene	15.01	225	35390	20.572	ug/l	97
91) Naphthalene	15.13	128	108562	19.806	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	31452	14.056	ug/l	94

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

