

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102519\
 Data File : VN058947.D
 Acq On : 24 Oct 2019 9:49
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 10/25/2019 2:36:42 PM

Quant Time: Oct 25 01:40:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	72751	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	384541	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	364228	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	190802	30.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.00%
60) 4-Bromofluorobenzene	12.40	95	186497	29.27	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.57%
63) Toluene-d8	10.08	98	524420	30.49	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	78314	19.868	ug/l 99
3) Chloromethane	2.04	50	102800	19.524	ug/l 99
4) Vinyl Chloride	2.17	62	107476	19.750	ug/l 100
5) Bromomethane	2.55	94	63709	18.962	ug/l 100
6) Chloroethane	2.68	64	69786	20.402	ug/l 98
7) Trichlorofluoromethane	3.00	101	138281	20.645	ug/l 100
8) Diethyl Ether	3.39	74	47076	18.428	ug/l 92
9) 1,1,2-Trichlorotrifluoroet	3.73	101	76580	19.759	ug/l 97
10) 1,1-Dichloroethene	3.71	96	70016	18.394	ug/l 98
11) Methyl Iodide	3.92	142	74708	14.093	ug/l 99
12) Methyl Acetate	4.30	43	120464	19.780	ug/l 100
13) Acrolein	3.58	56	51900	77.128	ug/l 95
14) Acrylonitrile	4.96	53	236365	98.500	ug/l 99
15) Acetone	3.79	58	98116	137.744	ug/l 98
16) Carbon Disulfide	4.03	76	212134	19.107	ug/l 98
17) Allyl chloride	4.30	41	143933	18.998	ug/l 97
18) Methylene Chloride	4.52	84	86468	18.759	ug/l 98
19) trans-1,2-Dichloroethene	5.01	96	77117	18.610	ug/l 99
20) Diisopropyl ether	5.92	45	299270	19.388	ug/l 97
21) 1,1-Dichloroethane	5.82	63	164907	19.293	ug/l 100
22) cis-1,2-Dichloroethene	6.81	96	92062	18.633	ug/l 100
23) tert-Butyl Alcohol	4.76	59	93555	95.316	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	259478	18.272	ug/l # 79
25) Chloroform	7.35	83	162037	19.007	ug/l 95
26) Cyclohexane	7.63	56	133051	17.734	ug/l # 97
29) 1,1-Dichloropropene	7.77	75	116743	19.286	ug/l 99
30) 2-Butanone	6.81	43	391672	114.501	ug/l 100
31) 2,2-Dichloropropane	6.80	77	142755	20.009	ug/l 97
32) 1,1,1-Trichloroethane	7.55	97	139676	19.951	ug/l 99
33) Carbon Tetrachloride	7.75	117	120790	19.932	ug/l 99
34) Benzene	8.02	78	354978	19.919	ug/l 97
35) Methacrylonitrile	7.16	41	61456m	20.338	ug/l
36) 1,2-Dichloroethane	8.10	62	136465	20.028	ug/l 99
37) Trichloroethene	8.82	130	83427	19.056	ug/l 96
38) Methylcyclohexane	9.07	83	125239	17.845	ug/l 97
39) 1,2-Dichloropropane	9.10	63	97446	20.009	ug/l 98
40) Dibromomethane	9.19	93	61891	20.131	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	127299	20.268	ug/l	99
42) Vinyl Acetate	5.87	43	1242972	103.754	ug/l	99
43) Ethyl Acetate	6.91	43	137215	20.437	ug/l #	93
44) Isopropyl Acetate	8.15	43	213098	19.595	ug/l #	87
45) 1,4-Dioxane	9.18	88	34476	412.846	ug/l	96
46) Methyl methacrylate	9.19	41	95474	19.123	ug/l	97
47) n-amyl Acetate	12.07	43	176085	18.265	ug/l	96
48) t-1,3-Dichloropropene	10.37	75	138759	19.049	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	147524	19.286	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	87716	19.986	ug/l	98
51) Ethyl methacrylate	10.42	69	129470	18.448	ug/l	97
52) 1,3-Dichloropropane	10.70	76	151879	19.431	ug/l	98
53) Dibromochloromethane	10.90	129	92705	19.682	ug/l	100
54) 1,2-Dibromoethane	11.00	107	89125	19.591	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	328043	93.969	ug/l	100
56) Bromoform	12.13	173	66347	20.221	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	690348	103.898	ug/l	98
59) 2-Hexanone	10.75	43	550745	105.728	ug/l	99
61) Tetrachloroethene	10.63	164	74732	18.987	ug/l	99
62) Toluene	10.15	91	372472	19.011	ug/l	100
64) Chlorobenzene	11.43	112	222209	18.551	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	83948	18.691	ug/l	99
66) Ethyl Benzene	11.51	91	393466	18.137	ug/l	99
67) m/p-Xylenes	11.62	106	293605	36.225	ug/l	97
68) o-Xylene	11.95	106	139049	17.697	ug/l	98
69) Styrene	11.96	104	228350	17.592	ug/l	99
70) Isopropylbenzene	12.25	105	386954	18.241	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	137363	19.234	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	126879m	19.607	ug/l	
73) Bromobenzene	12.53	156	94912	18.420	ug/l	98
74) n-propylbenzene	12.59	91	463686	18.674	ug/l	100
75) 2-Chlorotoluene	12.68	91	277340	18.564	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	328198	18.063	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	44993	18.251	ug/l	96
78) 4-Chlorotoluene	12.78	91	280937	18.245	ug/l	100
79) tert-butylbenzene	13.00	119	270637	17.435	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	328002	18.167	ug/l	100
81) sec-Butylbenzene	13.17	105	371816	17.798	ug/l	99
82) p-Isopropyltoluene	13.29	119	327938	17.481	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	168819	18.106	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	159939	17.174	ug/l	98
85) n-Butylbenzene	13.62	91	288157	16.778	ug/l	98
86) Hexachloroethane	13.88	117	63544	18.613	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	168048	18.257	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	29644	18.649	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	88318	15.196	ug/l	99
90) Hexachlorobutadiene	15.01	225	52820	17.599	ug/l	98
91) Naphthalene	15.13	128	259320	15.112	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	92557	16.360	ug/l	98

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

