

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057466.D
 Acq On : 23 Aug 2019 10:54
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:12:05 PM

Quant Time: Aug 23 23:10:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 22:53:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.17	128	75304	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	437252	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	394617	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	213208	39.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	132.70%
60) 4-Bromofluorobenzene	12.40	95	205129	34.72	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	115.73%
63) Toluene-d8	10.08	98	576842	31.60	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	623036	161.320	ug/l 99
3) Chloromethane	2.04	50	861188	180.018	ug/l 99
4) Vinyl Chloride	2.17	62	1102946	220.500	ug/l 99
5) Bromomethane	2.53	94	703726m	192.159	ug/l
6) Chloroethane	2.68	64	716504	211.970	ug/l 97
7) Trichlorofluoromethane	3.00	101	1695428	213.495	ug/l 95
8) Diethyl Ether	3.39	74	626244	210.850	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.72	101	934135	200.722	ug/l 98
10) 1,1-Dichloroethene	3.71	96	906941	199.087	ug/l 99
11) Methyl Iodide	3.92	142	768663	118.383	ug/l 100
12) Methyl Acetate	4.30	43	885530	176.753	ug/l 97
13) Acrolein	3.58	56	559673	1063.302	ug/l 98
14) Acrylonitrile	4.96	53	1704438	877.693	ug/l 99
15) Acetone	3.80	58	693680	1029.212	ug/l 93
16) Carbon Disulfide	4.02	76	1716688	153.247	ug/l 99
17) Allyl chloride	4.29	41	1327020	202.699	ug/l 98
18) Methylene Chloride	4.52	84	708426	151.843	ug/l 98
19) trans-1,2-Dichloroethene	5.00	96	653606	148.639	ug/l 99
20) Diisopropyl ether	5.93	45	2790915	203.730	ug/l 96
21) 1,1-Dichloroethane	5.82	63	1443598	178.637	ug/l 98
22) cis-1,2-Dichloroethene	6.81	96	817212	157.947	ug/l 99
23) tert-Butyl Alcohol	4.79	59	601458	863.767	ug/l 100
24) Methyl tert-Butyl Ether	5.02	73	2180585	167.722	ug/l 99
25) Chloroform	7.36	83	1443263	173.608	ug/l 100
26) Cyclohexane	7.63	56	1274559	187.309	ug/l # 98
29) 1,1-Dichloropropene	7.77	75	1090587	167.652	ug/l 99
30) 2-Butanone	6.82	43	2575485	948.394	ug/l 99
31) 2,2-Dichloropropane	6.80	77	1230269	170.819	ug/l 99
32) 1,1,1-Trichloroethane	7.55	97	1263467	165.876	ug/l 98
33) Carbon Tetrachloride	7.75	117	1056600	157.762	ug/l 98
34) Benzene	8.03	78	3169102	161.358	ug/l # 89
35) Methacrylonitrile	7.16	41	559625	158.227	ug/l 94
36) 1,2-Dichloroethane	8.11	62	1231157	184.683	ug/l # 88
37) Trichloroethene	8.82	130	725579	132.924	ug/l 95
38) Methylcyclohexane	9.07	83	1212299	159.743	ug/l 98
39) 1,2-Dichloropropane	9.11	63	897303	174.590	ug/l 95
40) Dibromomethane	9.20	93	552875	165.164	ug/l 99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057466.D
 Acq On : 23 Aug 2019 10:54
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:12:05 PM

Quant Time: Aug 23 23:10:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 22:53:43 2019
 Response via : Initial Calibration

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

41) Bromodichloromethane	9.39	83	1190676	174.528	ug/l #	97
42) Vinyl Acetate	5.87	43	11844523	1029.641	ug/l	99
43) Ethyl Acetate	6.91	43	1063364	194.417	ug/l	99
44) Isopropyl Acetate	8.16	43	1948078	198.896	ug/l #	92
45) 1,4-Dioxane	9.20	88	227979	2720.637	ug/l	95
46) Methyl methacrylate	9.19	41	920721	206.775	ug/l	99
47) n-amyl Acetate	12.07	43	1710138	231.956	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	1306871	178.401	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	1395978	171.195	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	738352	154.352	ug/l	99
51) Ethyl methacrylate	10.43	69	1267175	178.096	ug/l	98
52) 1,3-Dichloropropane	10.70	76	1326944	165.950	ug/l	98
53) Dibromochloromethane	10.90	129	824069	152.448	ug/l	98
54) 1,2-Dibromoethane	11.00	107	768344	154.571	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	1790283	1076.852	ug/l	99
56) Bromoform	12.13	173	521213	132.494	ug/l #	98
58) 4-Methyl-2-Pentanone	9.98	43	5549934	977.757	ug/l	99
59) 2-Hexanone	10.75	43	3898385	965.109	ug/l	99
61) Tetrachloroethene	10.63	164	617817	112.997	ug/l	95
62) Toluene	10.15	91	3397481	153.713	ug/l	99
64) Chlorobenzene	11.43	112	1942202	143.985	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	709414	136.532	ug/l	98
66) Ethyl Benzene	11.51	91	3754601	156.260	ug/l	100
67) m/p-Xylenes	11.62	106	2697148	305.213	ug/l	98
68) o-Xylene	11.95	106	1303808	149.980	ug/l	98
69) Styrene	11.96	104	2248802	162.189	ug/l	98
70) Isopropylbenzene	12.25	105	3576924	154.179	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	1019289	158.609	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	907089m	164.658	ug/l	
73) Bromobenzene	12.53	156	741232	125.995	ug/l	98
74) n-propylbenzene	12.59	91	4247363	172.668	ug/l	100
75) 2-Chlorotoluene	12.67	91	2456854	162.856	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	2944579	153.029	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	369649	175.730	ug/l	93
78) 4-Chlorotoluene	12.77	91	2485756	175.644	ug/l	99
79) tert-butylbenzene	12.99	119	2444181	143.648	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	2864016	157.721	ug/l	99
81) sec-Butylbenzene	13.17	105	3432436	160.830	ug/l	100
82) p-Isopropyltoluene	13.29	119	2972196	157.572	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	1299330	149.660	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	1289364	157.482	ug/l	99
85) n-Butylbenzene	13.62	91	2738308	193.151	ug/l	98
86) Hexachloroethane	13.88	117	564676	154.039	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	1250603	151.487	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	201898	222.597	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	614860	207.610	ug/l	99
90) Hexachlorobutadiene	15.01	225	330103	94.313	ug/l	98
91) Naphthalene	15.13	128	1918115	272.906	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	613994	213.696	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
Data File : VN057466.D
Acq On : 23 Aug 2019 10:54
Operator : JC/SP
Sample : VSTDICC150
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

MMDadoda
8/26/2019 1:12:05 PM

Quant Time: Aug 23 23:10:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 23 22:53:43 2019
Response via : Initial Calibration

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

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

