

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092419\
 Data File : VN058340.D
 Acq On : 24 Sep 2019 11:37
 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
 9/25/2019 8:23:54 AM

Quant Time: Sep 25 01:32:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 25 01:14:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	95530	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	551870	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	500577	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	246962	29.43	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.10%
60) 4-Bromofluorobenzene	12.41	95	269200	31.28	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.27%
63) Toluene-d8	10.08	98	717300	29.99	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	881864	151.504	ug/l 99
3) Chloromethane	2.03	50	984915	139.095	ug/l 100
4) Vinyl Chloride	2.17	62	996179	138.108	ug/l 97
5) Bromomethane	2.52	94	524757	121.678	ug/l 100
6) Chloroethane	2.67	64	582477	131.093	ug/l 96
7) Trichlorofluoromethane	2.99	101	1155725	140.975	ug/l 99
8) Diethyl Ether	3.39	74	527473	153.537	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.73	101	798025	149.934	ug/l 99
10) 1,1-Dichloroethene	3.71	96	789669	154.439	ug/l 98
11) Methyl Iodide	3.93	142	966133	150.920	ug/l 98
12) Methyl Acetate	4.30	43	1073766	156.175	ug/l 99
13) Acrolein	3.58	56	186849	534.892	ug/l 99
14) Acrylonitrile	4.96	53	2226901	786.391	ug/l 99
15) Acetone	3.80	58	571039	714.392	ug/l 95
16) Carbon Disulfide	4.03	76	2324573	189.476	ug/l 98
17) Allyl chloride	4.30	41	1525988	162.095	ug/l 96
18) Methylene Chloride	4.53	84	919931	144.561	ug/l 94
19) trans-1,2-Dichloroethene	5.01	96	883894	155.142	ug/l 95
20) Diisopropyl ether	5.93	45	3262136	151.641	ug/l 94
21) 1,1-Dichloroethane	5.82	63	1793986	151.266	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	1035158	150.039	ug/l 100
23) tert-Butyl Alcohol	4.76	59	829923	882.697	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	2891684	150.080	ug/l 100
25) Chloroform	7.36	83	1788471	147.973	ug/l 99
26) Cyclohexane	7.64	56	1661499	162.426	ug/l # 99
29) 1,1-Dichloropropene	7.78	75	1388092	157.642	ug/l 99
30) 2-Butanone	6.81	43	3127382	790.612	ug/l 100
31) 2,2-Dichloropropane	6.81	77	1463078	157.533	ug/l 99
32) 1,1,1-Trichloroethane	7.55	97	1549904	157.967	ug/l 99
33) Carbon Tetrachloride	7.76	117	1327028	163.498	ug/l 95
34) Benzene	8.03	78	3780209	146.045	ug/l # 91
35) Methacrylonitrile	7.16	41	591627m	158.397	ug/l
36) 1,2-Dichloroethane	8.11	62	1529961	152.447	ug/l 99
37) Trichloroethene	8.82	130	977344	154.548	ug/l 98
38) Methylcyclohexane	9.07	83	1686026	166.580	ug/l 98
39) 1,2-Dichloropropane	9.11	63	1064754	147.535	ug/l 97
40) Dibromomethane	9.20	93	672344	152.278	ug/l 99

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

41) Bromodichloromethane	9.39	83	1406012	157.867	ug/l	98
42) Vinyl Acetate	5.87	43	10035588	632.787	ug/l #	90
43) Ethyl Acetate	6.91	43	1312622	164.027	ug/l	94
44) Isopropyl Acetate	8.15	43	2296625	161.747	ug/l	97
45) 1,4-Dioxane	9.19	88	373102	3285.997	ug/l	97
46) Methyl methacrylate	9.19	41	1111336	161.888	ug/l	97
47) n-amyl Acetate	12.07	43	2101269	163.332	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	1613638	169.239	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	1730846	161.502	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	943655	148.211	ug/l	98
51) Ethyl methacrylate	10.43	69	1595566	160.724	ug/l	97
52) 1,3-Dichloropropane	10.71	76	1682386	150.322	ug/l	99
53) Dibromochloromethane	10.90	129	1042980	164.039	ug/l	99
54) 1,2-Dibromoethane	11.00	107	996996	156.332	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	3195570	700.515	ug/l	96
56) Bromoform	12.13	173	706090	179.357	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	4814817	615.044	ug/l #	79
59) 2-Hexanone	10.75	43	3927723	668.000	ug/l #	85
61) Tetrachloroethene	10.63	164	813432	158.156	ug/l	99
62) Toluene	10.15	91	3772693	135.634	ug/l	90
64) Chlorobenzene	11.43	112	2520674	146.179	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	956033	159.222	ug/l	98
66) Ethyl Benzene	11.51	91	3912855	128.529	ug/l #	73
67) m/p-Xylenes	11.62	106	3394610m	291.901	ug/l	
68) o-Xylene	11.95	106	1732908	151.848	ug/l	86
69) Styrene	11.97	104	2861183	147.936	ug/l	96
70) Isopropylbenzene	12.25	105	3838043	128.101	ug/l	87
71) 1,1,2,2-Tetrachloroethane	12.51	83	1426491	152.379	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	1163681m	140.062	ug/l	
73) Bromobenzene	12.53	156	1087209	150.397	ug/l	98
74) n-propylbenzene	12.60	91	4185485	121.994	ug/l	83
75) 2-Chlorotoluene	12.68	91	3057156	142.765	ug/l	96
76) 1,3,5-Trimethylbenzene	12.74	105	3464035	135.274	ug/l	88
77) t-1,4-Dichloro-2-butene	12.30	75	479800	190.505	ug/l	90
78) 4-Chlorotoluene	12.78	91	3141949	143.202	ug/l	94
79) tert-butylbenzene	13.00	119	3176811	143.167	ug/l	97
80) 1,2,4-Trimethylbenzene	13.05	105	3453412m	135.050	ug/l	
81) sec-Butylbenzene	13.18	105	3786169	127.627	ug/l	89
82) p-Isopropyltoluene	13.30	119	3479986	131.542	ug/l	88
83) 1,3-Dichlorobenzene	13.29	146	2029429	151.857	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	2025976	153.554	ug/l	99
85) n-Butylbenzene	13.62	91	3422661	139.190	ug/l	87
86) Hexachloroethane	13.88	117	727419	170.882	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	1969084	151.192	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.28	75	309425	184.044	ug/l	98
89) 1,2,4-Trichlorobenzene	14.92	180	1364065	170.849	ug/l	98
90) Hexachlorobutadiene	15.02	225	634977	172.070	ug/l	97
91) Naphthalene	15.14	128	3410047	156.150	ug/l	96
92) 1,2,3-Trichlorobenzene	15.30	180	1288184	169.717	ug/l	99

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

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