

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081019\
 Data File : VN057167.D
 Acq On : 10 Aug 2019 11:02
 Operator : JC/SP
 Sample : VSTDIC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 8/12/2019 3:55:33 PM

Quant Time: Aug 11 03:45:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sun Aug 11 03:32:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.59	128	174656	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.01	114	957258	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.90	117	854156	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.44	65	337787	29.67	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.90%
60) 4-Bromofluorobenzene	11.92	95	409638	32.21	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	107.37%
63) Toluene-d8	9.56	98	1154713	29.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.82	85	947272	99.434	ug/l 98
3) Chloromethane	2.00	50	1053182	95.437	ug/l 100
4) Vinyl Chloride	2.11	62	1095953	97.621	ug/l 98
5) Bromomethane	2.43	94	760433	95.086	ug/l 99
6) Chloroethane	2.55	64	706123	96.995	ug/l 100
7) Trichlorofluoromethane	2.82	101	1600501	95.610	ug/l 98
8) Diethyl Ether	3.14	74	608857	97.588	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.44	101	945969	93.422	ug/l 98
10) 1,1-Dichloroethene	3.43	96	968263	96.714	ug/l 99
11) Methyl Iodide	3.63	142	1599261	102.374	ug/l 97
12) Methyl Acetate	3.89	43	951003	91.188	ug/l 99
13) Acrolein	3.31	56	555797	483.243	ug/l 100
14) Acrylonitrile	4.45	53	2091372	480.652	ug/l 99
15) Acetone	3.47	58	661574	458.135	ug/l 95
16) Carbon Disulfide	3.72	76	2654939	98.298	ug/l 100
17) Allyl chloride	3.91	41	1375939	93.224	ug/l 96
18) Methylene Chloride	4.10	84	1071210	94.378	ug/l 99
19) trans-1,2-Dichloroethene	4.51	96	1024232	95.428	ug/l 97
20) Diisopropyl ether	5.31	45	2891944	96.074	ug/l 95
21) 1,1-Dichloroethane	5.25	63	1796700	95.836	ug/l 99
22) cis-1,2-Dichloroethene	6.21	96	1179359	96.541	ug/l 97
23) tert-Butyl Alcohol	4.23	59	705899	491.639	ug/l # 100
24) Methyl tert-Butyl Ether	4.49	73	2866555	97.369	ug/l 99
25) Chloroform	6.76	83	1839788	95.438	ug/l 98
26) Cyclohexane	7.07	56	1558402	97.237	ug/l # 100
29) 1,1-Dichloropropene	7.20	75	1412171	98.097	ug/l 100
30) 2-Butanone	6.20	43	2730851	481.843	ug/l 99
31) 2,2-Dichloropropane	6.21	77	1504897	97.777	ug/l 100
32) 1,1,1-Trichloroethane	6.98	97	1621079	97.238	ug/l 100
33) Carbon Tetrachloride	7.18	117	1465956	98.782	ug/l 94
34) Benzene	7.46	78	4227703	96.209	ug/l # 95
35) Methacrylonitrile	6.55	41	580377	101.322	ug/l 92
36) 1,2-Dichloroethane	7.54	62	1350822	96.225	ug/l 100
37) Trichloroethene	8.27	130	1198184	95.954	ug/l 99
38) Methylcyclohexane	8.52	83	1707780	99.414	ug/l 99
39) 1,2-Dichloropropane	8.56	63	1091658	56.142	ug/l 97
40) Dibromomethane	8.65	93	713074	97.790	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	8.85	83	1447764	99.851	ug/l	98
42) Vinyl Acetate	5.26	43	11734511	498.044	ug/l	100
43) Ethyl Acetate	6.28	43	1098455	105.088	ug/l	100
44) Isopropyl Acetate	7.56	43	1874930	98.792	ug/l	96
45) 1,4-Dioxane	8.64	88	347555	1962.404	ug/l	97
46) Methyl methacrylate	8.63	41	872704	100.855	ug/l	96
47) n-amyl Acetate	11.58	43	1556163	111.451	ug/l	99
48) t-1,3-Dichloropropene	9.86	75	1593692	103.080	ug/l	99
49) cis-1,3-Dichloropropene	9.30	75	1773931	111.674	ug/l	99
50) 1,1,2-Trichloroethane	10.04	97	1020791	97.947	ug/l	97
51) Ethyl methacrylate	9.91	69	1502621	102.167	ug/l	99
52) 1,3-Dichloropropane	10.19	76	1686509	97.085	ug/l	100
53) Dibromochloromethane	10.39	129	1195385	101.791	ug/l	98
54) 1,2-Dibromoethane	10.50	107	1087563	99.969	ug/l	98
55) 2-Chloroethyl vinyl ether	9.15	63	2266634	545.820	ug/l	99
56) Bromoform	11.64	173	907627	104.590	ug/l	100
58) 4-Methyl-2-Pentanone	9.45	43	5349788	487.548	ug/l	99
59) 2-Hexanone	10.24	43	3884372	492.387	ug/l	98
61) Tetrachloroethene	10.11	164	1165719	88.919	ug/l	98
62) Toluene	9.63	91	4634890	95.332	ug/l	100
64) Chlorobenzene	10.93	112	2932387	98.063	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.01	131	1119429	97.618	ug/l	98
66) Ethyl Benzene	11.01	91	5164018	99.086	ug/l	99
67) m/p-Xylenes	11.12	106	3930473	199.986	ug/l	100
68) o-Xylene	11.46	106	1905641	99.871	ug/l	100
69) Styrene	11.47	104	3223308	105.348	ug/l	99
70) Isopropylbenzene	11.76	105	5107196	99.416	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.02	83	1369965	97.368	ug/l	99
72) 1,2,3-Trichloropropane	12.08	75	1213103m	97.240	ug/l	
73) Bromobenzene	12.04	156	1355831	101.781	ug/l	97
74) n-propylbenzene	12.11	91	5687474	105.460	ug/l	100
75) 2-Chlorotoluene	12.20	91	3393113	101.722	ug/l	99
76) 1,3,5-Trimethylbenzene	12.26	105	4372301	105.286	ug/l	87
77) t-1,4-Dichloro-2-butene	11.82	75	450828	108.786	ug/l	93
78) 4-Chlorotoluene	12.30	91	3350911	108.164	ug/l	99
79) tert-butylbenzene	12.52	119	3770898	98.910	ug/l	98
80) 1,2,4-Trimethylbenzene	12.57	105	4253573	104.274	ug/l	99
81) sec-Butylbenzene	12.70	105	4954544	103.070	ug/l	99
82) p-Isopropyltoluene	12.82	119	4557075	106.465	ug/l	100
83) 1,3-Dichlorobenzene	12.81	146	2265250	111.680	ug/l	99
84) 1,4-Dichlorobenzene	12.90	146	2179732	115.526	ug/l	100
85) n-Butylbenzene	13.15	91	3482888	112.537	ug/l	99
86) Hexachloroethane	13.41	117	794162	102.037	ug/l	100
87) 1,2-Dichlorobenzene	13.19	146	2237238	111.222	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.81	75	223674	113.306	ug/l	95
89) 1,2,4-Trichlorobenzene	14.45	180	1093542	135.688	ug/l	99
90) Hexachlorobutadiene	14.55	225	872413	100.602	ug/l	99
91) Naphthalene	14.67	128	2061137	134.988	ug/l	100
92) 1,2,3-Trichlorobenzene	14.83	180	973751	131.496	ug/l	98

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

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