

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102020\
 Data File : VN064193.D
 Acq On : 20 Oct 2020 11:11
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 10/23/2020 2:28:40 PM

Quant Time: Oct 20 11:33:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 20 11:03:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	53440	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	297991	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	269715	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.98	65	128740	27.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	90.57%
60) 4-Bromofluorobenzene	12.38	95	145794	31.01	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.37%
63) Toluene-d8	10.06	98	359170	29.35	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	400283	114.659	ug/l 93
3) Chloromethane	2.04	50	394608	108.881	ug/l 100
4) Vinyl Chloride	2.16	62	388111	107.646	ug/l 98
5) Bromomethane	2.52	94	230923	101.083	ug/l 99
6) Chloroethane	2.67	64	220342	98.771	ug/l 99
7) Trichlorofluoromethane	2.98	101	604546	104.735	ug/l 97
8) Diethyl Ether	3.37	74	205755	110.104	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.72	101	313838	105.543	ug/l 97
10) 1,1-Dichloroethene	3.70	96	306681	109.091	ug/l 97
11) Methyl Iodide	3.91	142	472275	129.398	ug/l 99
12) Methyl Acetate	4.28	43	341916	102.457	ug/l 94
13) Acrolein	3.57	56	184539	544.843	ug/l # 1
14) Acrylonitrile	4.93	53	694426	504.358	ug/l 99
15) Acetone	3.77	58	183957	473.192	ug/l 94
16) Carbon Disulfide	4.01	76	905670	109.295	ug/l 99
17) Allyl chloride	4.28	41	573514	111.275	ug/l 98
18) Methylene Chloride	4.51	84	348418	105.675	ug/l 94
19) trans-1,2-Dichloroethene	4.99	96	336447	106.143	ug/l 92
20) Diisopropyl ether	5.90	45	1076228	103.935	ug/l 95
21) 1,1-Dichloroethane	5.80	63	646035	103.469	ug/l 99
22) cis-1,2-Dichloroethene	6.78	96	386659	106.871	ug/l 97
23) tert-Butyl Alcohol	4.73	59	311612	527.585	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	1030077	109.692	ug/l 100
25) Chloroform	7.33	83	674809	103.220	ug/l 97
26) Cyclohexane	7.61	56	512755	111.219	ug/l # 92
29) 1,1-Dichloropropene	7.75	75	513688	102.960	ug/l 98
30) 2-Butanone	6.78	43	1071616	453.210	ug/l 99
31) 2,2-Dichloropropane	6.78	77	629516	104.788	ug/l 100
32) 1,1,1-Trichloroethane	7.53	97	652148	103.105	ug/l 99
33) Carbon Tetrachloride	7.73	117	587176	104.883	ug/l 97
34) Benzene	8.00	78	1441264	102.607	ug/l # 91
35) Methacrylonitrile	7.12	41	223112	96.034	ug/l 95
36) 1,2-Dichloroethane	8.08	62	571445	93.629	ug/l 100
37) Trichloroethene	8.80	130	392627	105.053	ug/l 98
38) Methylcyclohexane	9.05	83	484466	112.524	ug/l 99
39) 1,2-Dichloropropane	9.08	63	380410	100.158	ug/l 98
40) Dibromomethane	9.17	93	259111	98.050	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	565966	101.507	ug/l	99
42) Vinyl Acetate	5.84	43	5038350	500.987	ug/l	100
43) Ethyl Acetate	6.88	43	465782	90.923	ug/l	96
44) Isopropyl Acetate	8.13	43	878568	101.633	ug/l #	90
45) 1,4-Dioxane	9.17	88	103031	1905.024	ug/l	94
46) Methyl methacrylate	9.16	41	425575	99.776	ug/l	99
47) n-amyl Acetate	12.04	43	794986	103.212	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	655500	108.071	ug/l	96
49) cis-1,3-Dichloropropene	9.81	75	670455	106.365	ug/l	100
50) 1,1,2-Trichloroethane	10.53	97	352379	98.751	ug/l	99
51) Ethyl methacrylate	10.40	69	561002	106.694	ug/l	99
52) 1,3-Dichloropropane	10.68	76	612233	100.147	ug/l	99
53) Dibromochloromethane	10.87	129	451789	108.949	ug/l	98
54) 1,2-Dibromoethane	10.98	107	379325	101.547	ug/l	97
55) 2-Chloroethyl vinyl ether	9.66	63	1467589	519.989	ug/l	100
56) Bromoform	12.10	173	318742	109.724	ug/l	100
58) 4-Methyl-2-Pentanone	9.95	43	2356804	480.699	ug/l	100
59) 2-Hexanone	10.72	43	1743672	475.757	ug/l	98
61) Tetrachloroethene	10.60	164	363441	109.795	ug/l	97
62) Toluene	10.13	91	1582515	105.919	ug/l	100
64) Chlorobenzene	11.41	112	995979	109.211	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	388521	109.298	ug/l	98
66) Ethyl Benzene	11.48	91	1821076	109.513	ug/l	98
67) m/p-Xylenes	11.59	106	1356304	220.587	ug/l	100
68) o-Xylene	11.92	106	664877	113.028	ug/l	94
69) Styrene	11.94	104	1135034	113.013	ug/l	99
70) Isopropylbenzene	12.22	105	1747158	111.491	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	475537	98.881	ug/l	97
72) 1,2,3-Trichloropropane	12.53	75	502223m	104.566	ug/l	
73) Bromobenzene	12.50	156	420899	106.055	ug/l	97
74) n-propylbenzene	12.57	91	2015728	110.553	ug/l	99
75) 2-Chlorotoluene	12.65	91	1236272	111.054	ug/l	98
76) 1,3,5-Trimethylbenzene	12.71	105	1504750	113.740	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	203552	113.549	ug/l	95
78) 4-Chlorotoluene	12.75	91	1312101	111.817	ug/l	99
79) tert-butylbenzene	12.97	119	1235400	115.719	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	1517606	114.089	ug/l	99
81) sec-Butylbenzene	13.14	105	1584349	113.211	ug/l	100
82) p-Isopropyltoluene	13.26	119	1479619	115.935	ug/l	99
83) 1,3-Dichlorobenzene	13.25	146	772573	110.421	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	776245	110.859	ug/l	98
85) n-Butylbenzene	13.59	91	1312669	117.697	ug/l	99
86) Hexachloroethane	13.85	117	258843	117.757	ug/l	94
87) 1,2-Dichlorobenzene	13.63	146	751667	110.267	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.24	75	119991	103.987	ug/l	98
89) 1,2,4-Trichlorobenzene	14.88	180	451915	124.206	ug/l	97
90) Hexachlorobutadiene	14.98	225	220018	116.878	ug/l	99
91) Naphthalene	15.10	128	1369308	125.006	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	435031	124.447	ug/l	99

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

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