

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061020\
 Data File : VN061731.D
 Acq On : 10 Jun 2020 11:17
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 6/11/2020 12:44:30 PM

Quant Time: Jun 10 12:12:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N061020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 10 11:59:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	64269	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	336568	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	324280	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	117498	21.85	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	72.83%
60) 4-Bromofluorobenzene	12.38	95	145201	26.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.57%
63) Toluene-d8	10.06	98	407928	27.57	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	91.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	130225	45.288	ug/l 98
3) Chloromethane	2.03	50	162031	33.210	ug/l 99
4) Vinyl Chloride	2.16	62	225071	34.357	ug/l 100
5) Bromomethane	2.53	94	146004	42.001	ug/l 96
6) Chloroethane	2.67	64	151691	34.216	ug/l 98
7) Trichlorofluoromethane	2.98	101	310622	41.763	ug/l 99
8) Diethyl Ether	3.37	74	96877	41.644	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.72	101	157634	49.033	ug/l 99
10) 1,1-Dichloroethene	3.70	96	158055	47.064	ug/l 95
11) Methyl Iodide	3.91	142	214888	56.060	ug/l 99
12) Methyl Acetate	4.28	43	121900	31.967	ug/l 99
13) Acrolein	3.57	56	91846	145.843	ug/l 98
14) Acrylonitrile	4.93	53	322214	178.731	ug/l # 90
15) Acetone	3.77	58	93132	206.780	ug/l 93
16) Carbon Disulfide	4.01	76	342201	37.909	ug/l 98
17) Allyl chloride	4.27	41	185954	29.791	ug/l 98
18) Methylene Chloride	4.50	84	177988	44.031	ug/l 96
19) trans-1,2-Dichloroethene	4.99	96	176932	44.577	ug/l 99
20) Diisopropyl ether	5.90	45	419911	28.984	ug/l 97
21) 1,1-Dichloroethane	5.80	63	280682	35.950	ug/l 98
22) cis-1,2-Dichloroethene	6.78	96	204224	44.379	ug/l 97
23) tert-Butyl Alcohol	4.73	59	121142	205.883	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	496693	38.086	ug/l # 78
25) Chloroform	7.33	83	315639	40.822	ug/l 97
26) Cyclohexane	7.61	56	228401	31.475	ug/l # 99
29) 1,1-Dichloropropene	7.75	75	232005	41.639	ug/l 100
30) 2-Butanone	6.78	43	385375	168.974	ug/l 100
31) 2,2-Dichloropropane	6.77	77	261737	40.133	ug/l 99
32) 1,1,1-Trichloroethane	7.53	97	289804	45.445	ug/l 99
33) Carbon Tetrachloride	7.73	117	240066	48.566	ug/l 97
34) Benzene	8.00	78	711757	44.541	ug/l # 93
35) Methacrylonitrile	7.12	41	65895	30.079	ug/l # 75
36) 1,2-Dichloroethane	8.09	62	224175	37.670	ug/l 99
37) Trichloroethene	8.80	130	218278	53.026	ug/l 99
38) Methylcyclohexane	9.05	83	269187	40.620	ug/l 99
39) 1,2-Dichloropropane	9.09	63	166186	38.882	ug/l 99
40) Dibromomethane	9.18	93	126926	46.202	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	256372	43.706	ug/l	98
42) Vinyl Acetate	5.84	43	1632275	152.625	ug/l	100
43) Ethyl Acetate	6.88	43	164954	34.989	ug/l	99
44) Isopropyl Acetate	8.13	43	284456	30.602	ug/l	100
45) 1,4-Dioxane	9.16	88	56704	1312.787	ug/l	97
46) Methyl methacrylate	9.17	41	123053	28.498	ug/l	98
47) n-amyl Acetate	12.04	43	244500	29.783	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	269744	39.892	ug/l	100
49) cis-1,3-Dichloropropene	9.81	75	294189	40.692	ug/l	99
50) 1,1,2-Trichloroethane	10.53	97	183018	47.980	ug/l	96
51) Ethyl methacrylate	10.40	69	241077	38.592	ug/l	99
52) 1,3-Dichloropropane	10.68	76	291387	43.137	ug/l	99
53) Dibromochloromethane	10.87	129	216097	51.053	ug/l	99
54) 1,2-Dibromoethane	10.98	107	193190	48.960	ug/l	99
55) 2-Chloroethyl vinyl ether	9.66	63	479505	177.745	ug/l	100
56) Bromoform	12.10	173	150281	55.537	ug/l	98
58) 4-Methyl-2-Pentanone	9.95	43	825585	154.712	ug/l	99
59) 2-Hexanone	10.72	43	595324	157.464	ug/l	100
61) Tetrachloroethene	10.60	164	244171	58.197	ug/l	95
62) Toluene	10.12	91	801656	44.079	ug/l	99
64) Chlorobenzene	11.41	112	510304	46.816	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	194824	48.634	ug/l	99
66) Ethyl Benzene	11.48	91	895817	43.370	ug/l	100
67) m/p-Xylenes	11.60	106	716195	92.612	ug/l	98
68) o-Xylene	11.92	106	333171	45.293	ug/l	99
69) Styrene	11.94	104	565454	44.782	ug/l	100
70) Isopropylbenzene	12.22	105	893463	44.947	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	230184	42.420	ug/l	100
72) 1,2,3-Trichloropropane	12.53	75	214891m	41.918	ug/l	
73) Bromobenzene	12.50	156	235835	54.481	ug/l	99
74) n-propylbenzene	12.56	91	1012392	43.149	ug/l	100
75) 2-Chlorotoluene	12.65	91	581653	43.248	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	735277	44.147	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	78166	36.922	ug/l	98
78) 4-Chlorotoluene	12.75	91	609242	43.166	ug/l	100
79) tert-butylbenzene	12.97	119	634422	45.743	ug/l	99
80) 1,2,4-Trimethylbenzene	13.01	105	743577	44.530	ug/l	100
81) sec-Butylbenzene	13.15	105	824281	43.437	ug/l	100
82) p-Isopropyltoluene	13.26	119	771959	44.965	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	419386	52.426	ug/l	100
84) 1,4-Dichlorobenzene	13.34	146	414413	52.633	ug/l	98
85) n-Butylbenzene	13.59	91	636716	40.844	ug/l	99
86) Hexachloroethane	13.85	117	101647	42.907	ug/l	98
87) 1,2-Dichlorobenzene	13.63	146	400580	52.875	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.24	75	42301	37.696	ug/l	97
89) 1,2,4-Trichlorobenzene	14.88	180	237748	55.096	ug/l	99
90) Hexachlorobutadiene	14.98	225	99284	54.939	ug/l	98
91) Naphthalene	15.10	128	667620	50.203	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	228420	54.053	ug/l	100

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

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