

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102020\
 Data File : VN064200.D
 Acq On : 20 Oct 2020 17:06
 Operator : JC/MD
 Sample : VN1020WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1020WBS02

Manual Integrations
 APPROVED

MMDadoda
 10/23/2020 2:28:55 PM

Quant Time: Oct 21 05:06:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 20 11:51:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	48877	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	272357	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	244530	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	128477	32.11	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	107.03%
60) 4-Bromofluorobenzene	12.38	95	129280	29.50	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.33%
63) Toluene-d8	10.06	98	324843	29.34	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	65073	19.405 ug/l	93
3) Chloromethane	2.04	50	64899	18.886 ug/l	97
4) Vinyl Chloride	2.16	62	64272	19.010 ug/l	98
5) Bromomethane	2.54	94	39068	19.315 ug/l	99
6) Chloroethane	2.67	64	35850	18.206 ug/l	96
7) Trichlorofluoromethane	2.99	101	99679	18.366 ug/l	100
8) Diethyl Ether	3.38	74	34840	18.907 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.72	101	49956	17.440 ug/l	97
10) 1,1-Dichloroethene	3.70	96	49774	17.847 ug/l	96
11) Methyl Iodide	3.91	142	68686	17.086 ug/l	96
12) Methyl Acetate	4.28	43	54471	18.530 ug/l	92
13) Acrolein	3.57	56	30386	94.538 ug/l #	1
14) Acrylonitrile	4.93	53	108204	91.344 ug/l #	86
15) Acetone	3.78	58	30447	95.197 ug/l	94
16) Carbon Disulfide	4.01	76	139256	17.460 ug/l	98
17) Allyl chloride	4.28	41	99916	19.267 ug/l	96
18) Methylene Chloride	4.51	84	57962	18.171 ug/l	92
19) trans-1,2-Dichloroethene	4.99	96	52252	17.368 ug/l	99
20) Diisopropyl ether	5.90	45	177745	18.547 ug/l	97
21) 1,1-Dichloroethane	5.80	63	104813	17.914 ug/l	98
22) cis-1,2-Dichloroethene	6.78	96	62458	17.759 ug/l	97
23) tert-Butyl Alcohol	4.73	59	53241	97.175 ug/l #	100
24) Methyl tert-Butyl Ether	4.99	73	172435m	18.711 ug/l	
25) Chloroform	7.33	83	110381	18.157 ug/l	97
26) Cyclohexane	7.61	56	79347	17.104 ug/l #	87
29) 1,1-Dichloropropene	7.75	75	79368	17.547 ug/l	99
30) 2-Butanone	6.78	43	174663	93.643 ug/l	99
31) 2,2-Dichloropropane	6.78	77	99938	17.404 ug/l	99
32) 1,1,1-Trichloroethane	7.53	97	104769	18.179 ug/l	97
33) Carbon Tetrachloride	7.73	117	91911	17.494 ug/l	97
34) Benzene	8.00	78	223622	17.754 ug/l	99
35) Methacrylonitrile	7.12	41	41168	20.122 ug/l	93
36) 1,2-Dichloroethane	8.09	62	100164	19.662 ug/l	98
37) Trichloroethene	8.80	130	61578	17.757 ug/l	97
38) Methylcyclohexane	9.05	83	74336	17.184 ug/l	98
39) 1,2-Dichloropropane	9.08	63	59653	17.747 ug/l	90
40) Dibromomethane	9.17	93	42959	18.369 ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	89960	17.774	ug/l	98
42) Vinyl Acetate	5.84	43	823062	92.949	ug/l	99
43) Ethyl Acetate	6.88	43	73064	17.936	ug/l	97
44) Isopropyl Acetate	8.13	43	147157	18.816	ug/l #	86
45) 1,4-Dioxane	9.16	88	18717	409.199	ug/l	89
46) Methyl methacrylate	9.16	41	72151	19.443	ug/l	95
47) n-amyl Acetate	12.05	43	123605	17.816	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	105587	18.497	ug/l	93
49) cis-1,3-Dichloropropene	9.81	75	105724	17.926	ug/l	97
50) 1,1,2-Trichloroethane	10.53	97	55503	17.715	ug/l	98
51) Ethyl methacrylate	10.40	69	91581	18.485	ug/l	98
52) 1,3-Dichloropropane	10.68	76	98804	18.291	ug/l	99
53) Dibromochloromethane	10.87	129	70962	17.995	ug/l	95
54) 1,2-Dibromoethane	10.98	107	60762	18.245	ug/l	97
55) 2-Chloroethyl vinyl ether	9.66	63	235815	96.844	ug/l	98
56) Bromoform	12.10	173	48223	17.559	ug/l	97
58) 4-Methyl-2-Pentanone	9.95	43	391278	94.427	ug/l	99
59) 2-Hexanone	10.72	43	282300	91.767	ug/l	99
61) Tetrachloroethene	10.60	164	58586	17.772	ug/l	96
62) Toluene	10.13	91	246079	17.603	ug/l	99
64) Chlorobenzene	11.41	112	151709	17.426	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	61813	18.122	ug/l	97
66) Ethyl Benzene	11.48	91	282591	17.583	ug/l	100
67) m/p-Xylenes	11.60	106	204817	34.265	ug/l	99
68) o-Xylene	11.92	106	99647	17.179	ug/l	99
69) Styrene	11.94	104	170248	17.349	ug/l	99
70) Isopropylbenzene	12.22	105	267477	17.460	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	76101	18.128	ug/l	96
72) 1,2,3-Trichloropropane	12.53	75	78863m	18.002	ug/l	
73) Bromobenzene	12.50	156	64403	17.434	ug/l	94
74) n-propylbenzene	12.57	91	301584	17.249	ug/l	98
75) 2-Chlorotoluene	12.65	91	188190	17.387	ug/l	97
76) 1,3,5-Trimethylbenzene	12.71	105	229674	17.619	ug/l	96
77) t-1,4-Dichloro-2-butene	12.28	75	30204	17.635	ug/l	92
78) 4-Chlorotoluene	12.75	91	192250	16.981	ug/l	97
79) tert-butylbenzene	12.97	119	184108	17.276	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	231116	17.465	ug/l	99
81) sec-Butylbenzene	13.15	105	238772	17.220	ug/l	99
82) p-Isopropyltoluene	13.26	119	215014	16.754	ug/l	98
83) 1,3-Dichlorobenzene	13.26	146	113979	17.213	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	114242	17.233	ug/l	99
85) n-Butylbenzene	13.59	91	189134	16.602	ug/l	99
86) Hexachloroethane	13.85	117	38093	17.242	ug/l	99
87) 1,2-Dichlorobenzene	13.63	146	111228	17.224	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.24	75	19635	18.468	ug/l	92
89) 1,2,4-Trichlorobenzene	14.88	180	65230	16.821	ug/l	96
90) Hexachlorobutadiene	14.98	225	33337	16.960	ug/l	98
91) Naphthalene	15.10	128	204521	17.399	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	64849	17.486	ug/l	97

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

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