

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030521\
 Data File : VN066133.D
 Acq On : 5 Mar 2021 14:25
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 3/8/2021 10:53:35 AM

Quant Time: Mar 05 14:54:19 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 05 14:32:15 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.164	128	38560	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.557	114	221862	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.376	117	210082	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.997	65	101535	36.24	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 120.80%#			
60) 4-Bromofluorobenzene	12.373	95	112240	32.60	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 108.67%			
63) Toluene-d8	10.061	98	282285	28.26	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 94.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.872	85	91628	41.07	ug/l	92
3) Chloromethane	2.078	50	127791	39.24	ug/l	99
4) Vinyl Chloride	2.206	62	134540	41.93	ug/l	99
5) Bromomethane	2.563	94	92096	46.62	ug/l	99
6) Chloroethane	2.711	64	80165	42.94	ug/l	99
7) Trichlorofluoromethane	3.023	101	201283	56.43	ug/l	99
8) Diethyl Ether	3.409	74	71077	45.73	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.756	101	85537	41.80	ug/l	94
10) 1,1-Dichloroethene	3.734	96	98958	44.85	ug/l	91
11) Methyl Iodide	3.949	142	156117	49.71	ug/l	87
12) Methyl Acetate	4.309	43	108004	41.03	ug/l	98
13) Acrolein	3.599	56	90013	249.17	ug/l	98
14) Acrylonitrile	4.962	53	260052	220.34	ug/l	100
15) Acetone	3.808	58	73637m	208.96	ug/l	
16) Carbon Disulfide	4.046	76	285704	41.64	ug/l	99
17) Allyl chloride	4.309	41	179099	42.96	ug/l	91
18) Methylene Chloride	4.537	84	123932	47.30	ug/l	96
19) trans-1,2-Dichloroethene	5.023	96	114463	46.92	ug/l	92
20) Diisopropyl ether	5.926	45	350940	42.12	ug/l	96
21) 1,1-Dichloroethane	5.824	63	218473	46.53	ug/l	98
22) cis-1,2-Dichloroethene	6.801	96	137145	48.71	ug/l	95
23) tert-Butyl Alcohol	4.766	59	117202	268.50	ug/l #	100
24) Methyl tert-Butyl Ether	5.020	73	401170	52.40	ug/l	93
25) Chloroform	7.344	83	239771	54.74	ug/l	96
26) Cyclohexane	7.627	56	163951	38.60	ug/l #	98
29) 1,1-Dichloropropene	7.762	75	164031	46.06	ug/l	98
30) 2-Butanone	6.801	43	336468	214.84	ug/l	99
31) 2,2-Dichloropropane	6.791	77	217270	55.84	ug/l	94
32) 1,1,1-Trichloroethane	7.541	97	217518	58.39	ug/l	99
33) Carbon Tetrachloride	7.746	117	184352	59.57	ug/l	99
34) Benzene	8.013	78	503944	46.02	ug/l #	91
35) Methacrylonitrile	7.152	41	73257m	43.06	ug/l	
36) 1,2-Dichloroethane	8.094	62	204595	58.73	ug/l	96
37) Trichloroethene	8.807	130	136795	50.82	ug/l	93
38) Methylcyclohexane	9.052	83	176127	42.45	ug/l	97
39) 1,2-Dichloropropane	9.087	63	126822	43.18	ug/l	100
40) Dibromomethane	9.180	93	87363	50.56	ug/l	86
41) Bromodichloromethane	9.373	83	200124	56.25	ug/l	97
42) Vinyl Acetate	5.869	43	1529419	222.03	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.894	43	144666	45.28	ug/l	95
44) Isopropyl Acetate	8.132	43	256487	45.67	ug/l #	85
45) 1,4-Dioxane	9.171	88	48601	1039.53	ug/l	99
46) Methyl methacrylate	9.168	41	122329	45.39	ug/l	94
47) n-amyl Acetate	12.042	43	194549	42.80	ug/l	97
48) t-1,3-Dichloropropene	10.351	75	230044	55.00	ug/l	97
49) cis-1,3-Dichloropropene	9.807	75	234027	50.12	ug/l #	91
50) 1,1,2-Trichloroethane	10.531	97	125218	50.13	ug/l	98
51) Ethyl methacrylate	10.399	69	188879	47.70	ug/l	96
52) 1,3-Dichloropropane	10.676	76	214885	48.24	ug/l	99
53) Dibromochloromethane	10.872	129	151674	57.76	ug/l	99
54) 1,2-Dibromoethane	10.978	107	129671	51.19	ug/l	100
55) 2-Chloroethyl vinyl ether	9.663	63	336714	199.81	ug/l	99
56) Bromoform	12.100	173	103266	61.69	ug/l #	96
58) 4-Methyl-2-Pentanone	9.952	43	714189	210.93	ug/l	99
59) 2-Hexanone	10.721	43	505190	210.64	ug/l	98
61) Tetrachloroethene	10.602	164	139030	49.76	ug/l	93
62) Toluene	10.126	91	559073	46.08	ug/l	98
64) Chlorobenzene	11.402	112	362154	49.89	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.479	131	140421	54.55	ug/l	97
66) Ethyl Benzene	11.483	91	639043	48.67	ug/l	100
67) m/p-Xylenes	11.592	106	500407	101.74	ug/l	94
68) o-Xylene	11.917	106	245741	51.27	ug/l	95
69) Styrene	11.936	104	403610	51.96	ug/l	94
70) Isopropylbenzene	12.219	105	635747	51.55	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.476	83	176443	49.19	ug/l	99
72) 1,2,3-Trichloropropane	12.524	75	184809m	53.07	ug/l	
73) Bromobenzene	12.495	156	154307	54.75	ug/l	81
74) n-propylbenzene	12.560	91	720770	50.86	ug/l	98
75) 2-Chlorotoluene	12.643	91	463342	53.64	ug/l	93
76) 1,3,5-Trimethylbenzene	12.704	105	574527	54.89	ug/l	96
77) t-1,4-Dichloro-2-butene	12.274	75	64365	47.72	ug/l	91
78) 4-Chlorotoluene	12.743	91	468059	54.02	ug/l	94
79) tert-butylbenzene	12.965	119	474414	54.64	ug/l	92
80) 1,2,4-Trimethylbenzene	13.010	105	567923	54.45	ug/l	97
81) sec-Butylbenzene	13.142	105	601426	52.85	ug/l	98
82) p-Isopropyltoluene	13.257	119	574833	55.86	ug/l	95
83) 1,3-Dichlorobenzene	13.254	146	273465	55.64	ug/l	96
84) 1,4-Dichlorobenzene	13.335	146	268906	55.93	ug/l	96
85) n-Butylbenzene	13.585	91	454021	51.86	ug/l	98
86) Hexachloroethane	13.843	117	89481	51.59	ug/l	77
87) 1,2-Dichlorobenzene	13.624	146	267780	54.50	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.238	75	41038	57.98	ug/l #	72
89) 1,2,4-Trichlorobenzene	14.878	180	144870	56.69	ug/l	96
90) Hexachlorobutadiene	14.978	225	63013	53.90	ug/l	98
91) Naphthalene	15.100	128	425765	52.44	ug/l	99
92) 1,2,3-Trichlorobenzene	15.280	180	147519	57.12	ug/l	97

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

