

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057467.D
 Acq On : 23 Aug 2019 11:53
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082319

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:12:10 PM

Quant Time: Aug 23 23:25:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 23:15:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	71905	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	420630	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	351640	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	208038	30.01	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.03%
60) 4-Bromofluorobenzene	12.40	95	170170	29.35	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.83%
63) Toluene-d8	10.08	98	531998	29.96	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	84831	22.551	ug/l 97
3) Chloromethane	2.05	50	123178	21.806	ug/l 95
4) Vinyl Chloride	2.17	62	148192	20.650	ug/l 99
5) Bromomethane	2.55	94	99805	21.498	ug/l 99
6) Chloroethane	2.69	64	98121	20.413	ug/l 96
7) Trichlorofluoromethane	3.00	101	232870	20.402	ug/l 95
8) Diethyl Ether	3.39	74	90223	20.576	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	134966	20.994	ug/l 99
10) 1,1-Dichloroethene	3.71	96	124334	20.033	ug/l 98
11) Methyl Iodide	3.92	142	95273	17.077	ug/l 97
12) Methyl Acetate	4.31	43	127918	20.460	ug/l 100
13) Acrolein	3.59	56	80099	100.736	ug/l 100
14) Acrylonitrile	4.97	53	222504	102.442	ug/l 99
15) Acetone	3.80	58	115060	113.240	ug/l 84
16) Carbon Disulfide	4.02	76	227916	20.617	ug/l 100
17) Allyl chloride	4.29	41	175984	20.784	ug/l 96
18) Methylene Chloride	4.53	84	94325	20.724	ug/l 97
19) trans-1,2-Dichloroethene	5.01	96	88003	20.532	ug/l 93
20) Diisopropyl ether	5.94	45	369595	20.446	ug/l 98
21) 1,1-Dichloroethane	5.82	63	194754	20.734	ug/l 96
22) cis-1,2-Dichloroethene	6.81	96	107905	20.698	ug/l 99
23) tert-Butyl Alcohol	4.80	59	83600	105.958	ug/l 100
24) Methyl tert-Butyl Ether	5.03	73	298895	20.844	ug/l 99
25) Chloroform	7.36	83	185920	19.936	ug/l 98
26) Cyclohexane	7.64	56	168154	20.104	ug/l # 99
29) 1,1-Dichloropropene	7.78	75	141028	19.728	ug/l 99
30) 2-Butanone	6.83	43	349237	101.611	ug/l 99
31) 2,2-Dichloropropane	6.81	77	171936	21.051	ug/l 100
32) 1,1,1-Trichloroethane	7.55	97	161876	19.808	ug/l 99
33) Carbon Tetrachloride	7.76	117	131658	19.401	ug/l 95
34) Benzene	8.03	78	418496	19.907	ug/l 97
35) Methacrylonitrile	7.16	41	68686	19.746	ug/l 98
36) 1,2-Dichloroethane	8.11	62	162610m	19.732	ug/l
37) Trichloroethene	8.83	130	94273	19.656	ug/l 100
38) Methylcyclohexane	9.07	83	161974	20.187	ug/l 98
39) 1,2-Dichloropropane	9.11	63	118628	19.846	ug/l 95
40) Dibromomethane	9.20	93	71658	19.616	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	148059	19.110	ug/l	98
42) Vinyl Acetate	5.88	43	1521627	98.930	ug/l	100
43) Ethyl Acetate	6.92	43	138978	20.774	ug/l	100
44) Isopropyl Acetate	8.16	43	254984	19.966	ug/l #	92
45) 1,4-Dioxane	9.20	88	31476	410.037	ug/l	97
46) Methyl methacrylate	9.19	41	119222	19.657	ug/l	97
47) n-amyl Acetate	12.07	43	196137	19.082	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	157245	19.212	ug/l	97
49) cis-1,3-Dichloropropene	9.83	75	178969	19.894	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	95242	19.883	ug/l	97
51) Ethyl methacrylate	10.43	69	156129	19.607	ug/l	96
52) 1,3-Dichloropropane	10.70	76	173518	19.868	ug/l	100
53) Dibromochloromethane	10.90	129	99719	19.527	ug/l	100
54) 1,2-Dibromoethane	11.00	107	94465	19.273	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	186944	95.240	ug/l	99
56) Bromoform	12.13	173	58311	19.132	ug/l #	97
58) 4-Methyl-2-Pentanone	9.98	43	710715	103.027	ug/l	100
59) 2-Hexanone	10.75	43	504580	105.528	ug/l	100
61) Tetrachloroethene	10.63	164	81101	20.111	ug/l	92
62) Toluene	10.15	91	427376	19.886	ug/l	98
64) Chlorobenzene	11.43	112	235498	20.156	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	88896	20.021	ug/l	99
66) Ethyl Benzene	11.51	91	462389	20.103	ug/l	100
67) m/p-Xylenes	11.62	106	327634	41.069	ug/l	95
68) o-Xylene	11.95	106	156680	19.874	ug/l	97
69) Styrene	11.96	104	249630	19.821	ug/l	98
70) Isopropylbenzene	12.25	105	421381	19.980	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	125244	20.535	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	111078m	20.063	ug/l	
73) Bromobenzene	12.53	156	83537	19.569	ug/l	96
74) n-propylbenzene	12.59	91	481838	20.035	ug/l	99
75) 2-Chlorotoluene	12.68	91	284274	20.071	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	346952	20.045	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	38495	19.389	ug/l	97
78) 4-Chlorotoluene	12.78	91	261725	19.557	ug/l	100
79) tert-butylbenzene	12.99	119	291424	19.787	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	331555	20.547	ug/l	99
81) sec-Butylbenzene	13.17	105	389076	20.047	ug/l	98
82) p-Isopropyltoluene	13.29	119	326410	20.005	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	129722	19.520	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	127360	19.700	ug/l	99
85) n-Butylbenzene	13.62	91	288255	20.264	ug/l	97
86) Hexachloroethane	13.88	117	67186	20.407	ug/l	94
87) 1,2-Dichlorobenzene	13.66	146	127370	19.516	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	19722	19.268	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	42907	17.546	ug/l	99
90) Hexachlorobutadiene	15.01	225	41986	22.331	ug/l	97
91) Naphthalene	15.13	128	140428	21.656	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	46167	18.878	ug/l	99

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

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