

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050715.D
 Acq On : 17 Aug 2018 8:00
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 10:35:48 AM

Quant Time: Aug 17 14:25:22 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA N\methods\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	122751	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	652337	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	570630	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	240930	28.88	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.27%
60) 4-Bromofluorobenzene	12.40	95	257997	29.43	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.10%
63) Toluene-d8	10.09	98	839752	30.81	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.70%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	136776	16.17	ug/l	98
3) Chloromethane	2.06	50	173403	19.88	ug/l	98
4) Vinyl Chloride	2.18	62	181796	19.58	ug/l	97
5) Bromomethane	2.57	94	106850	18.88	ug/l	97
6) Chloroethane	2.70	64	111308	20.27	ug/l	100
7) Trichlorofluoromethane	3.01	101	245291	20.22	ug/l	99
8) Diethyl Ether	3.41	74	78544	19.30	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.76	101	156192	21.16	ug/l	98
10) 1,1-Dichloroethene	3.73	96	134155	20.50	ug/l	95
11) Methyl Iodide	3.95	142	91231	9.47	ug/l	98
12) Methyl Acetate	4.33	43	118136	15.76	ug/l	97
13) Acrolein	3.61	56	37161	80.21	ug/l	99
14) Acrylonitrile	4.99	53	219680	87.81	ug/l	99
15) Acetone	3.82	58	72817	109.53	ug/l	91
16) Carbon Disulfide	4.05	76	411041	20.52	ug/l	100
17) Allyl chloride	4.33	41	208662	20.19	ug/l	94
18) Methylene Chloride	4.55	84	157578	20.87	ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	144025	20.55	ug/l	96
20) Diisopropyl ether	5.95	45	453710	21.41	ug/l	98
21) 1,1-Dichloroethane	5.85	63	276923	20.78	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	160177	20.61	ug/l	99
23) tert-Butyl Alcohol	4.79	59	40088	71.72	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	334704	18.75	ug/l	100
25) Chloroform	7.37	83	279858	20.75	ug/l	99
26) Cyclohexane	7.65	56	226813	21.42	ug/l	# 100
29) 1,1-Dichloropropene	7.79	75	211858	20.93	ug/l	99
30) 2-Butanone	6.84	43	323392	101.80	ug/l	98
31) 2,2-Dichloropropane	6.82	77	226053	20.20	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	236028	19.81	ug/l	99
33) Carbon Tetrachloride	7.77	117	216710	20.40	ug/l	98
34) Benzene	8.04	78	632053	20.56	ug/l	98
35) Methacrylonitrile	7.17	41	53512	14.79	ug/l	99
36) 1,2-Dichloroethane	8.12	62	192109	19.03	ug/l	100
37) Trichloroethene	8.83	130	163922	20.33	ug/l	95
38) Methylcyclohexane	9.08	83	216720	20.31	ug/l	99
39) 1,2-Dichloropropane	9.12	63	171304	21.15	ug/l	98
40) Dibromomethane	9.21	93	98563	19.69	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	209405	19.83	ug/l	99
42) Vinyl Acetate	5.90	43	1405945	94.05	ug/l	100
43) Ethyl Acetate	6.93	43	125008m	18.84	ug/l	
44) Isopropyl Acetate	8.17	43	207516m	16.89	ug/l	
45) 1,4-Dioxane	9.20	88	27216	336.56	ug/l	97
46) Methyl methacrylate	9.20	41	95207	15.98	ug/l	99
47) n-amyl Acetate	12.07	43	156770	16.39	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	197896	19.66	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	240789	20.36	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	139788	19.45	ug/l	98
51) Ethyl methacrylate	10.43	69	152979	17.54	ug/l	99
52) 1,3-Dichloropropane	10.71	76	231874	19.65	ug/l	99
53) Dibromochloromethane	10.90	129	156031	19.13	ug/l	97
54) 1,2-Dibromoethane	11.01	107	131783	18.73	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	363713	92.15	ug/l	100
56) Bromoform	12.13	173	102605	17.82	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	719298	108.33	ug/l	98
59) 2-Hexanone	10.75	43	469019	103.54	ug/l	100
61) Tetrachloroethene	10.63	164	153053	19.80	ug/l	97
62) Toluene	10.16	91	682777	20.97	ug/l	100
64) Chlorobenzene	11.43	112	411008	20.82	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	161294	20.95	ug/l	100
66) Ethyl Benzene	11.51	91	672198	20.20	ug/l	99
67) m/p-Xylenes	11.62	106	543596	42.46	ug/l	99
68) o-Xylene	11.95	106	252616	20.74	ug/l	98
69) Styrene	11.96	104	406563	20.82	ug/l	99
70) Isopropylbenzene	12.25	105	668723	20.61	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	165700	18.60	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	143959m	18.92	ug/l	
73) Bromobenzene	12.53	156	172642	19.98	ug/l	99
74) n-propylbenzene	12.59	91	771412	20.41	ug/l	100
75) 2-Chlorotoluene	12.67	91	464135	20.45	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	558768	20.97	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	38488	15.47	ug/l	97
78) 4-Chlorotoluene	12.77	91	464612	20.66	ug/l	100
79) tert-butylbenzene	12.99	119	462605	20.30	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	560833	20.77	ug/l	99
81) sec-Butylbenzene	13.17	105	628501	20.31	ug/l	100
82) p-Isopropyltoluene	13.29	119	541770	20.52	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	296760	19.72	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	281181	19.77	ug/l	100
85) n-Butylbenzene	13.62	91	412314	19.24	ug/l	99
86) Hexachloroethane	13.88	117	100959	19.13	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	291822	19.84	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	22372	16.12	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	122164	17.39	ug/l	99
90) Hexachlorobutadiene	15.01	225	96756	20.89	ug/l	97
91) Naphthalene	15.13	128	215427	17.42	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	122613	17.16	ug/l	100

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

