

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120618\
 Data File : VN052714.D
 Acq On : 6 Dec 2018 23:05
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 12/7/2018 1:13:15 PM

Quant Time: Dec 07 07:46:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	156432	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	899868	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	786078	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	317693	29.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.37%
60) 4-Bromofluorobenzene	12.40	95	351682	29.26	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.53%
63) Toluene-d8	10.09	98	1084873	29.76	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	163225	18.321	ug/l 98
3) Chloromethane	2.06	50	223664	18.929	ug/l 99
4) Vinyl Chloride	2.19	62	234393	19.655	ug/l 98
5) Bromomethane	2.58	94	138081	20.307	ug/l 97
6) Chloroethane	2.71	64	138386	19.513	ug/l 99
7) Trichlorofluoromethane	3.02	101	294624	20.018	ug/l 100
8) Diethyl Ether	3.41	74	110642	20.359	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	182171	19.525	ug/l 97
10) 1,1-Dichloroethene	3.74	96	176609	20.132	ug/l 97
11) Methyl Iodide	3.96	142	261865	21.500	ug/l 99
12) Methyl Acetate	4.33	43	160516	21.536	ug/l 100
13) Acrolein	3.61	56	70271	80.260	ug/l 99
14) Acrylonitrile	4.99	53	332384	104.660	ug/l 99
15) Acetone	3.82	58	73680	89.584	ug/l 96
16) Carbon Disulfide	4.06	76	513729	18.497	ug/l 100
17) Allyl chloride	4.33	41	277111	18.113	ug/l 98
18) Methylene Chloride	4.55	84	203295	20.015	ug/l 96
19) trans-1,2-Dichloroethene	5.05	96	188747	19.993	ug/l 94
20) Diisopropyl ether	5.95	45	641839	19.964	ug/l 99
21) 1,1-Dichloroethane	5.85	63	366530	20.003	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	219789	20.314	ug/l 98
23) tert-Butyl Alcohol	4.78	59	50691	107.297	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	486285	21.131	ug/l 98
25) Chloroform	7.37	83	359247	20.322	ug/l 99
26) Cyclohexane	7.66	56	327677	18.960	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	273098	19.873	ug/l 99
30) 2-Butanone	6.84	43	363895	98.962	ug/l 99
31) 2,2-Dichloropropane	6.82	77	234854	18.564	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	292597	20.463	ug/l 98
33) Carbon Tetrachloride	7.77	117	255893	20.453	ug/l 99
34) Benzene	8.04	78	834173	20.190	ug/l 99
35) Methacrylonitrile	7.17	41	93516	20.498	ug/l 98
36) 1,2-Dichloroethane	8.13	62	258552	20.651	ug/l 99
37) Trichloroethene	8.84	130	215019	20.524	ug/l 94
38) Methylcyclohexane	9.08	83	320646	18.849	ug/l 98
39) 1,2-Dichloropropane	9.12	63	222353	20.077	ug/l 94
40) Dibromomethane	9.21	93	127047	21.228	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	268807	20.329	ug/l	99
42) Vinyl Acetate	5.90	43	2007872	100.921	ug/l	99
43) Ethyl Acetate	6.93	43	182047m	23.283	ug/l	
44) Isopropyl Acetate	8.16	43	295441	21.545	ug/l	98
45) 1,4-Dioxane	9.20	88	30610	408.031	ug/l	95
46) Methyl methacrylate	9.20	41	151021	21.211	ug/l	98
47) n-amyl Acetate	12.07	43	231418	20.354	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	254764	19.871	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	309208	19.795	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	183799	21.666	ug/l	98
51) Ethyl methacrylate	10.43	69	227279	21.331	ug/l	96
52) 1,3-Dichloropropane	10.71	76	315532	20.896	ug/l	98
53) Dibromochloromethane	10.90	129	194868	20.864	ug/l	98
54) 1,2-Dibromoethane	11.01	107	176591	21.302	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	616664	98.875	ug/l	99
56) Bromoform	12.13	173	129891	21.276	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	829464	108.842	ug/l	99
59) 2-Hexanone	10.75	43	536174	102.994	ug/l	99
61) Tetrachloroethene	10.63	164	214653	22.171	ug/l	96
62) Toluene	10.16	91	883170	20.380	ug/l	100
64) Chlorobenzene	11.44	112	539859	20.411	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	193471	21.073	ug/l	99
66) Ethyl Benzene	11.51	91	944507	20.223	ug/l	100
67) m/p-Xylenes	11.62	106	708695	40.730	ug/l	99
68) o-Xylene	11.95	106	342902	20.304	ug/l	99
69) Styrene	11.97	104	555006	20.360	ug/l	100
70) Isopropylbenzene	12.25	105	923837	20.560	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	213326	21.824	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	179295m	21.368	ug/l	
73) Bromobenzene	12.53	156	228508	21.026	ug/l	96
74) n-propylbenzene	12.59	91	1031751	19.707	ug/l	99
75) 2-Chlorotoluene	12.68	91	621475	20.450	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	741421	20.428	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	51228	19.327	ug/l	93
78) 4-Chlorotoluene	12.77	91	613221	20.207	ug/l	99
79) tert-butylbenzene	12.99	119	656989	20.786	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	742701	20.451	ug/l	100
81) sec-Butylbenzene	13.17	105	886189	20.129	ug/l	100
82) p-Isopropyltoluene	13.29	119	749579	19.995	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	389952	20.402	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	371355	20.109	ug/l	100
85) n-Butylbenzene	13.62	91	589123	18.295	ug/l	100
86) Hexachloroethane	13.88	117	125684	19.787	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	383072	21.061	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	30581	22.335	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	174579	19.482	ug/l	98
90) Hexachlorobutadiene	15.01	225	120558	20.508	ug/l	99
91) Naphthalene	15.13	128	365001	20.170	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	171715	20.793	ug/l	98

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

