

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041924\
 Data File : VN081818.D
 Acq On : 19 Apr 2024 18:52
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/22/2024
 Supervised By : Mahesh Dadoda 04/22/2024

Quant Time: Apr 19 23:53:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:25:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	14664	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	94473	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	132807	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	56776	31.517	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.067%			
60) 4-Bromofluorobenzene	12.847	95	78407	30.029	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.100%			
63) Toluene-d8	10.565	98	161463	30.309	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.033%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	33312	16.258	ug/l	93
3) Chloromethane	2.359	50	44353	24.950	ug/l	98
4) Vinyl Chloride	2.512	62	56063	30.669	ug/l	100
5) Bromomethane	2.959	94	38008	24.551	ug/l	96
6) Chloroethane	3.124	64	40751	28.482	ug/l	93
7) Trichlorofluoromethane	3.501	101	60497	20.158	ug/l	100
8) Diethyl Ether	3.959	74	19141	17.100	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	34038	16.531	ug/l	89
10) 1,1-Dichloroethene	4.342	96	31565	16.716	ug/l	88
11) Methyl Iodide	4.589	142	28695	13.418	ug/l	96
12) Methyl Acetate	5.024	43	33162m	19.125	ug/l	
13) Acrolein	4.177	56	20013m	87.637	ug/l	
14) Acrylonitrile	5.718	53	83262	96.468	ug/l	98
15) Acetone	4.424	58	18380m	96.823	ug/l	
16) Carbon Disulfide	4.712	76	84869	15.806	ug/l	96
17) Allyl chloride	5.024	41	37902	16.592	ug/l	91
18) Methylene Chloride	5.283	84	39149m	18.005	ug/l	
19) trans-1,2-Dichloroethene	5.789	96	34438	16.631	ug/l	87
20) Diisopropyl ether	6.671	45	107891m	19.838	ug/l	
21) 1,1-Dichloroethane	6.565	63	66624	18.374	ug/l	95
22) cis-1,2-Dichloroethene	7.488	96	43979	17.587	ug/l	98
23) tert-Butyl Alcohol	5.518	59	28979m	94.581	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	105678	17.894	ug/l #	90
25) Chloroform	7.965	83	78309	18.981	ug/l	95
26) Cyclohexane	8.259	56	51513	17.722	ug/l #	87
29) 1,1-Dichloropropene	8.371	75	48887	19.683	ug/l	100
30) 2-Butanone	7.488	43	104864	110.552	ug/l	99
31) 2,2-Dichloropropane	7.494	77	55983	18.096	ug/l #	85
32) 1,1,1-Trichloroethane	8.171	97	70012	20.453	ug/l	99
33) Carbon Tetrachloride	8.365	117	61720	19.891	ug/l #	91
34) Benzene	8.606	78	158866	19.856	ug/l	98
35) Methacrylonitrile	7.771	41	26684	24.836	ug/l	93
36) 1,2-Dichloroethane	8.671	62	59844	22.804	ug/l	98
37) Trichloroethene	9.353	130	39876	18.834	ug/l	95
38) Methylcyclohexane	9.600	83	52108	17.165	ug/l	99
39) 1,2-Dichloropropane	9.624	63	39366	21.090	ug/l	97
40) Dibromomethane	9.712	93	32014	21.531	ug/l	97
41) Bromodichloromethane	9.888	83	65678	21.661	ug/l	95
42) Vinyl Acetate	6.606	43	418087	105.805	ug/l	99

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 Acq On : 19 Apr 2024 18:52
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/22/2024
 Supervised By : Mahesh Dadoda 04/22/2024

Quant Time: Apr 19 23:53:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:25:01 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	45773	21.896	ug/l #	86
44) Isopropyl Acetate	8.688	43	80837	23.078	ug/l	93
45) 1,4-Dioxane	9.700	88	15896	411.102	ug/l	98
46) Methyl methacrylate	9.682	41	34976	22.205	ug/l	88
47) n-amyl Acetate	12.494	43	73596	23.415	ug/l	95
48) t-1,3-Dichloropropene	10.835	75	61521	21.297	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	64359	20.689	ug/l #	89
50) 1,1,2-Trichloroethane	11.018	97	44582	22.393	ug/l	98
51) Ethyl methacrylate	10.876	69	58209	20.998	ug/l	85
52) 1,3-Dichloropropane	11.165	76	69716	21.364	ug/l	99
53) Dibromochloromethane	11.359	129	51013	21.450	ug/l	100
54) 1,2-Dibromoethane	11.471	107	43059	20.924	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	147925	108.664	ug/l	98
56) Bromoform	12.582	173	34752	22.852	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	271633	118.934	ug/l #	88
59) 2-Hexanone	11.200	43	198635	115.808	ug/l #	89
61) Tetrachloroethene	11.106	164	47161	19.165	ug/l	95
62) Toluene	10.635	91	185948	19.245	ug/l	100
64) Chlorobenzene	11.894	112	122476	19.991	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	43136	19.382	ug/l	96
66) Ethyl Benzene	11.965	91	195843	19.064	ug/l	100
67) m/p-Xylenes	12.071	106	159056	39.089	ug/l	93
68) o-Xylene	12.400	106	74007	19.158	ug/l	95
69) Styrene	12.412	104	122957	18.690	ug/l	96
70) Isopropylbenzene	12.700	105	191337	19.200	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	59327	22.789	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	78473	32.560	ug/l	64
73) Bromobenzene	12.982	156	48886	19.797	ug/l	95
74) n-propylbenzene	13.035	91	224614	18.829	ug/l	98
75) 2-Chlorotoluene	13.123	91	140401	19.755	ug/l	97
76) 1,3,5-Trimethylbenzene	13.176	105	163958	19.383	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	20426	20.465	ug/l	87
78) 4-Chlorotoluene	13.223	91	141092	20.016	ug/l	95
79) tert-butylbenzene	13.441	119	131968	18.339	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	166791	19.772	ug/l	98
81) sec-Butylbenzene	13.617	105	190232	18.330	ug/l	97
82) p-Isopropyltoluene	13.735	119	161886	18.599	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	92827	20.114	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	90150	20.180	ug/l	97
85) n-Butylbenzene	14.059	91	131118	17.884	ug/l	97
86) Hexachloroethane	14.335	117	32234	19.385	ug/l	89
87) 1,2-Dichlorobenzene	14.106	146	89788	20.440	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.717	75	13466	23.728	ug/l	91
89) 1,2,4-Trichlorobenzene	15.841	180	49706	20.644	ug/l	98
90) Hexachlorobutadiene	15.506	225	18842	19.528	ug/l	97
91) Naphthalene	15.647	128	149300	19.287	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	49706	20.644	ug/l	98

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

