

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100620\
 Data File : VN063890.D
 Acq On : 6 Oct 2020 11:15
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 10/7/2020 12:11:32 PM

Quant Time: Oct 06 12:31:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 06 12:20:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	54269	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	283569	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	270287	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	144111	35.64	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	118.80%
60) 4-Bromofluorobenzene	12.38	95	143004	32.98	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	109.93%
63) Toluene-d8	10.06	98	366926	29.66	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	188531	47.879	ug/l 99
3) Chloromethane	2.04	50	187896	44.058	ug/l 99
4) Vinyl Chloride	2.16	62	187331	43.597	ug/l 99
5) Bromomethane	2.54	94	116646	43.789	ug/l 97
6) Chloroethane	2.68	64	114526	44.642	ug/l 98
7) Trichlorofluoromethane	2.99	101	292638	53.359	ug/l 98
8) Diethyl Ether	3.37	74	98830	54.453	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.72	101	149181	50.255	ug/l 98
10) 1,1-Dichloroethene	3.70	96	145315	54.261	ug/l 91
11) Methyl Iodide	3.91	142	193281	53.072	ug/l 96
12) Methyl Acetate	4.28	43	178302	51.023	ug/l 96
13) Acrolein	3.57	56	95179	274.757	ug/l 100
14) Acrylonitrile	4.93	53	371007	247.036	ug/l 96
15) Acetone	3.78	58	107722	246.147	ug/l 89
16) Carbon Disulfide	4.01	76	425112	57.859	ug/l 100
17) Allyl chloride	4.28	41	260653	51.882	ug/l 97
18) Methylene Chloride	4.50	84	172774	47.637	ug/l 98
19) trans-1,2-Dichloroethene	4.99	96	163206	55.458	ug/l 97
20) Diisopropyl ether	5.90	45	533969	48.046	ug/l 98
21) 1,1-Dichloroethane	5.80	63	320300	51.042	ug/l 99
22) cis-1,2-Dichloroethene	6.78	96	186489	51.993	ug/l 94
23) tert-Butyl Alcohol	4.73	59	154403	294.250	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	488541	50.546	ug/l # 54
25) Chloroform	7.33	83	337561	53.350	ug/l 99
26) Cyclohexane	7.62	56	235307	45.587	ug/l # 96
29) 1,1-Dichloropropene	7.75	75	246219	55.633	ug/l 99
30) 2-Butanone	6.78	43	612918	295.640	ug/l 100
31) 2,2-Dichloropropane	6.78	77	288754	53.733	ug/l # 79
32) 1,1,1-Trichloroethane	7.53	97	311407	57.625	ug/l 99
33) Carbon Tetrachloride	7.74	117	272722	58.881	ug/l 97
34) Benzene	8.00	78	699810	50.935	ug/l 94
35) Methacrylonitrile	7.13	41	123573	64.359	ug/l 97
36) 1,2-Dichloroethane	8.09	62	303183	60.960	ug/l 100
37) Trichloroethene	8.80	130	178914	52.664	ug/l 98
38) Methylcyclohexane	9.05	83	209311	40.902	ug/l 99
39) 1,2-Dichloropropane	9.08	63	188293	47.639	ug/l 100
40) Dibromomethane	9.18	93	132656	55.432	ug/l 99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100620\
 Data File : VN063890.D
 Acq On : 6 Oct 2020 11:15
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 10/7/2020 12:11:32 PM

Quant Time: Oct 06 12:31:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 06 12:20:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	271776	52.234	ug/l	94
42) Vinyl Acetate	5.84	43	2593772	319.550	ug/l	99
43) Ethyl Acetate	6.88	43	259301	64.280	ug/l	99
44) Isopropyl Acetate	8.13	43	435269	63.136	ug/l #	100
45) 1,4-Dioxane	9.16	88	57832	984.825	ug/l	92
46) Methyl methacrylate	9.17	41	221923	65.308	ug/l	98
47) n-amyl Acetate	12.05	43	391731	64.593	ug/l	98
48) t-1,3-Dichloropropene	10.35	75	295664	53.363	ug/l	97
49) cis-1,3-Dichloropropene	9.81	75	315010	53.239	ug/l	98
50) 1,1,2-Trichloroethane	10.53	97	176091	49.629	ug/l	96
51) Ethyl methacrylate	10.40	69	266644	54.284	ug/l	98
52) 1,3-Dichloropropane	10.68	76	300199	50.961	ug/l	99
53) Dibromochloromethane	10.87	129	204682	51.838	ug/l	98
54) 1,2-Dibromoethane	10.98	107	186540	53.639	ug/l	99
55) 2-Chloroethyl vinyl ether	9.66	63	697501	517.700	ug/l	99
56) Bromoform	12.10	173	143614	50.384	ug/l	98
58) 4-Methyl-2-Pentanone	9.95	43	1352306	316.207	ug/l	99
59) 2-Hexanone	10.72	43	1002484	325.220	ug/l	100
61) Tetrachloroethene	10.60	164	167556	53.123	ug/l	98
62) Toluene	10.13	91	770469	51.600	ug/l	98
64) Chlorobenzene	11.41	112	463616	50.499	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.48	131	181976	50.047	ug/l	98
66) Ethyl Benzene	11.48	91	861220	52.624	ug/l	98
67) m/p-Xylenes	11.60	106	636214	103.936	ug/l	98
68) o-Xylene	11.92	106	307266	52.499	ug/l	97
69) Styrene	11.94	104	528878	51.984	ug/l	98
70) Isopropylbenzene	12.22	105	819972	51.723	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	255964	50.896	ug/l	99
72) 1,2,3-Trichloropropane	12.53	75	265686m	57.281	ug/l	
73) Bromobenzene	12.50	156	204158	48.599	ug/l	95
74) n-propylbenzene	12.57	91	956675	50.531	ug/l	99
75) 2-Chlorotoluene	12.65	91	584928	51.643	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	698746	51.854	ug/l	98
77) t-1,4-Dichloro-2-butene	12.27	75	95732	58.468	ug/l	98
78) 4-Chlorotoluene	12.75	91	618730	52.644	ug/l	100
79) tert-butylbenzene	12.97	119	549520	48.800	ug/l	98
80) 1,2,4-Trimethylbenzene	13.01	105	707249	53.391	ug/l	100
81) sec-Butylbenzene	13.15	105	727882	47.281	ug/l	99
82) p-Isopropyltoluene	13.26	119	665776	48.700	ug/l	98
83) 1,3-Dichlorobenzene	13.26	146	355283	48.159	ug/l	100
84) 1,4-Dichlorobenzene	13.34	146	360811	49.817	ug/l	98
85) n-Butylbenzene	13.59	91	582582	50.242	ug/l	98
86) Hexachloroethane	13.85	117	110750	42.334	ug/l	94
87) 1,2-Dichlorobenzene	13.63	146	354457	49.857	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.24	75	62459	70.267	ug/l	99
89) 1,2,4-Trichlorobenzene	14.88	180	186891	52.079	ug/l	98
90) Hexachlorobutadiene	14.98	225	96955	39.113	ug/l	98
91) Naphthalene	15.10	128	612712	70.735	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	184221	51.691	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100620\
Data File : VN063890.D
Acq On : 6 Oct 2020 11:15
Operator : JC/MD
Sample : VSTDICC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations
APPROVED

MMDadoda
10/7/2020 12:11:32 PM

Quant Time: Oct 06 12:31:39 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100620W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Oct 06 12:20:09 2020
Response via : Initial Calibration

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

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100620\
Data File : VN063890.D
Acq On : 6 Oct 2020 11:15
Operator : JC/MD
Sample : VSTDIC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Manual Integrations
APPROVED

MMDadoda
10/7/2020 12:11:32 PM

Quant Time: Oct 06 12:31:39 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100620W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Oct 06 12:20:09 2020
Response via : Initial Calibration

