

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101119\
 Data File : VN058676.D
 Acq On : 10 Oct 2019 20:02
 Operator : JC/SP
 Sample : K5111-07
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Quant Time: Oct 11 08:40:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	70615	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	397119	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	351949	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	184130	30.72	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.40%
60) 4-Bromofluorobenzene	12.41	95	171897	27.92	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.07%
63) Toluene-d8	10.08	98	499517	30.06	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.84	85	9273	2.424 ug/l	97
3) Chloromethane	2.04	50	15477	3.028 ug/l	93
4) Vinyl Chloride	2.17	62	14260	2.700 ug/l	99
5) Bromomethane	2.55	94	10070	3.088 ug/l	88
6) Chloroethane	2.69	64	9267	2.791 ug/l	89
7) Trichlorofluoromethane	3.00	101	18518	2.848 ug/l	99
8) Diethyl Ether	3.39	74	6714	2.708 ug/l	86
9) 1,1,2-Trichlorotrifluoroet	3.73	101	10582	2.813 ug/l	88
10) 1,1-Dichloroethene	3.72	96	10776	2.917 ug/l	83
11) Methyl Iodide	3.93	142	13721	2.667 ug/l	93
12) Methyl Acetate	4.30	43	16779	2.838 ug/l	98
13) Acrolein	3.59	56	10071	15.419 ug/l	98
14) Acrylonitrile	4.97	53	30148	12.943 ug/l #	86
15) Acetone	3.80	58	8914	12.893 ug/l #	63
16) Carbon Disulfide	4.03	76	32576	3.023 ug/l	98
17) Allyl chloride	4.29	41	9444	1.284 ug/l	94
18) Methylene Chloride	4.53	84	14051	3.141 ug/l	97
19) trans-1,2-Dichloroethene	5.02	96	12104	3.009 ug/l	87
20) Diisopropyl ether	5.93	45	40191	2.682 ug/l	96
21) 1,1-Dichloroethane	5.83	63	24270	2.925 ug/l	100
22) cis-1,2-Dichloroethene	6.81	96	13904	2.899 ug/l	94
23) tert-Butyl Alcohol	4.76	59	12918	13.559 ug/l #	100
24) Methyl tert-Butyl Ether	5.02	73	37800	2.742 ug/l	95
25) Chloroform	7.35	83	24153	2.919 ug/l	94
26) Cyclohexane	7.64	56	20224	2.777 ug/l #	96
29) 1,1-Dichloropropene	7.78	75	16680	2.668 ug/l	87
30) 2-Butanone	6.82	43	44004	12.457 ug/l	97
31) 2,2-Dichloropropane	6.80	77	19792	2.686 ug/l	96
32) 1,1,1-Trichloroethane	7.55	97	20427	2.825 ug/l	98
33) Carbon Tetrachloride	7.76	117	17274	2.760 ug/l	95
34) Benzene	8.03	78	51310	2.788 ug/l #	29
35) Methacrylonitrile	7.15	41	7813	2.504 ug/l	88
36) 1,2-Dichloroethane	8.11	62	21004	2.985 ug/l	96
37) Trichloroethene	8.83	130	12751	2.820 ug/l	94
38) Methylcyclohexane	9.07	83	19200	2.649 ug/l	99
39) 1,2-Dichloropropane	9.11	63	13686	2.721 ug/l	98
40) Dibromomethane	9.20	93	9014	2.839 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	16778	2.587	ug/l	95
42) Vinyl Acetate	5.87	43	160688	12.988	ug/l #	87
43) Ethyl Acetate	6.82	43	44004	6.347	ug/l	98
44) Isopropyl Acetate	8.15	43	29092	2.590	ug/l #	58
45) 1,4-Dioxane	9.19	88	4723	54.766	ug/l #	88
46) Methyl methacrylate	9.19	41	12461	2.417	ug/l	96
47) n-amyl Acetate	12.07	43	21208	2.130	ug/l #	90
49) cis-1,3-Dichloropropene	9.83	75	20233	2.561	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	12694	2.801	ug/l	98
51) Ethyl methacrylate	10.43	69	16245	2.241	ug/l	97
52) 1,3-Dichloropropane	10.71	76	21087	2.612	ug/l	94
53) Dibromochloromethane	10.90	129	11721	2.410	ug/l	98
54) 1,2-Dibromoethane	11.00	107	12199	2.597	ug/l	96
55) 2-Chloroethyl vinyl ether	9.69	63	44053	12.219	ug/l	98
56) Bromoform	12.13	173	7918	2.337	ug/l #	95
58) 4-Methyl-2-Pentanone	9.98	43	84344	13.137	ug/l	99
59) 2-Hexanone	10.75	43	63807	12.677	ug/l	97
61) Tetrachloroethene	10.63	164	11137	2.928	ug/l	97
62) Toluene	10.15	91	53487	2.825	ug/l	100
64) Chlorobenzene	11.43	112	32285	2.789	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	11688	2.693	ug/l	97
66) Ethyl Benzene	11.51	91	55496	2.647	ug/l	100
67) m/p-Xylenes	11.62	106	39184	5.003	ug/l	94
68) o-Xylene	11.95	106	20066	2.643	ug/l	97
69) Styrene	11.97	104	29053	2.316	ug/l	97
70) Isopropylbenzene	12.25	105	53221	2.596	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.51	83	17787	2.578	ug/l	93
72) 1,2,3-Trichloropropane	12.56	75	25215	4.032	ug/l	56
73) Bromobenzene	12.53	156	13416	2.695	ug/l	95
74) n-propylbenzene	12.59	91	61266	2.553	ug/l	98
75) 2-Chlorotoluene	12.68	91	38323	2.655	ug/l	98
76) 1,3,5-Trimethylbenzene	12.74	105	43707	2.489	ug/l	99
77) t-1,4-Dichloro-2-butene	12.31	75	4915	2.063	ug/l	75
78) 4-Chlorotoluene	12.78	91	36905	2.480	ug/l	99
79) tert-butylbenzene	13.00	119	37477	2.499	ug/l	98
80) 1,2,4-Trimethylbenzene	13.05	105	42422	2.432	ug/l	98
81) sec-Butylbenzene	13.18	105	49641	2.459	ug/l	99
82) p-Isopropyltoluene	13.29	119	42218	2.329	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	22655	2.515	ug/l	98
84) 1,4-Dichlorobenzene	13.37	146	21761	2.418	ug/l	97
85) n-Butylbenzene	13.62	91	36793	2.217	ug/l	99
86) Hexachloroethane	13.88	117	8390	2.543	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	23132	2.601	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	4612	3.003	ug/l	87
89) 1,2,4-Trichlorobenzene	14.92	180	12332	2.196	ug/l	98
90) Hexachlorobutadiene	15.02	225	7606	2.623	ug/l	95
91) Naphthalene	15.13	128	35768	2.157	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	12898	2.359	ug/l	97

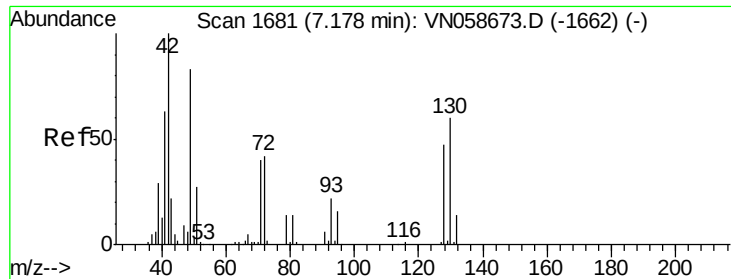
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

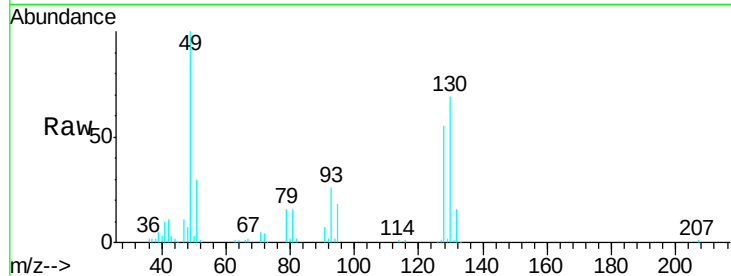
Tgt Ion:128 Resp: 70615

Ion Ratio Lower Upper

128 100

49 182.7 0.0 453.5

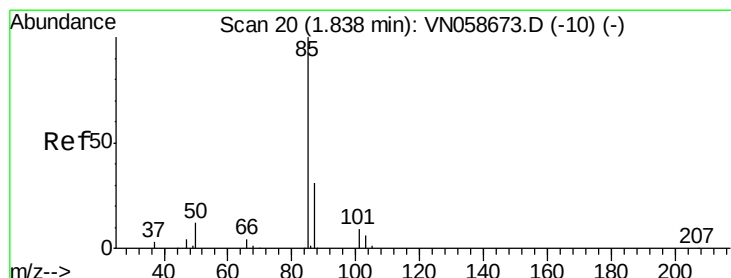
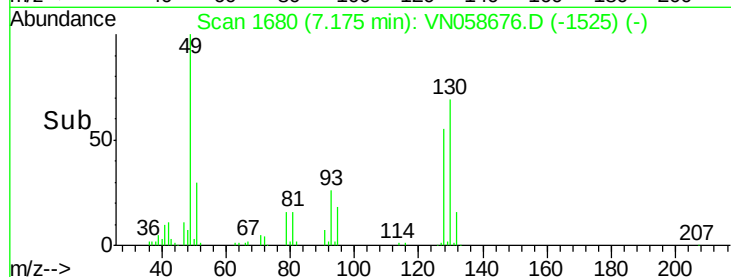
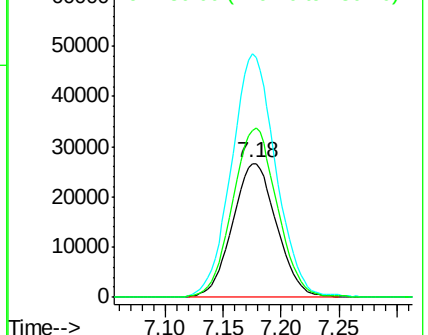
130 127.7 0.0 314.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 2.424 ug/l

RT: 1.84 min Scan# 20

Delta R.T. 0.00 min

Lab File: VN058676.D

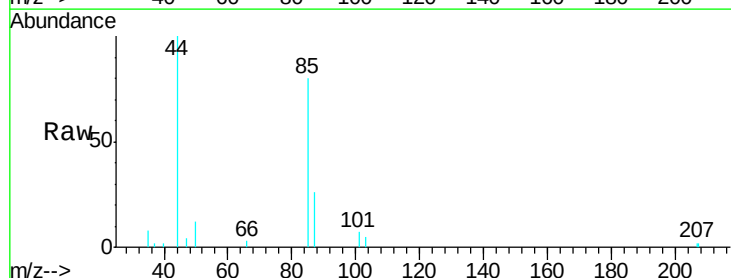
Acq: 10 Oct 2019 20:02

Tgt Ion: 85 Resp: 9273

Ion Ratio Lower Upper

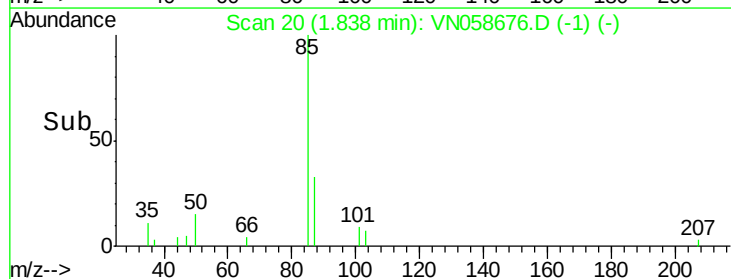
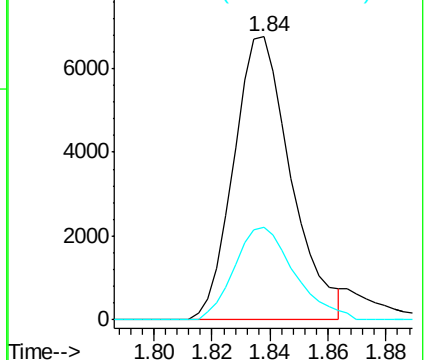
85 100

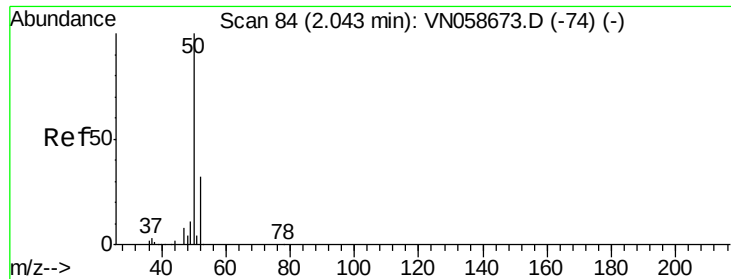
87 32.8 15.7 47.0



Abundance Ion 85.00 (84.70 to 85.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#3

Chloromethane

Concen: 3.028 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

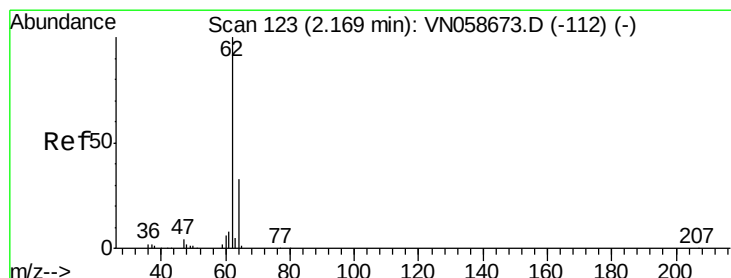
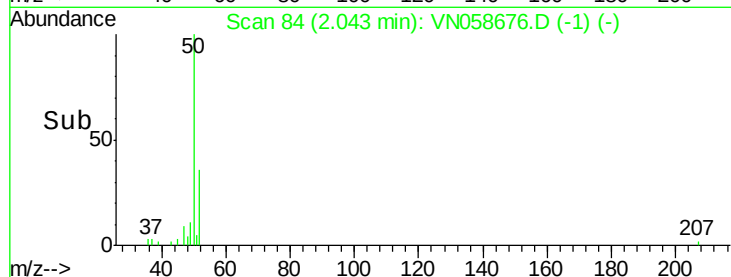
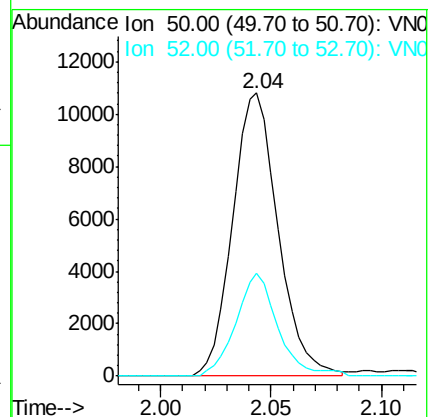
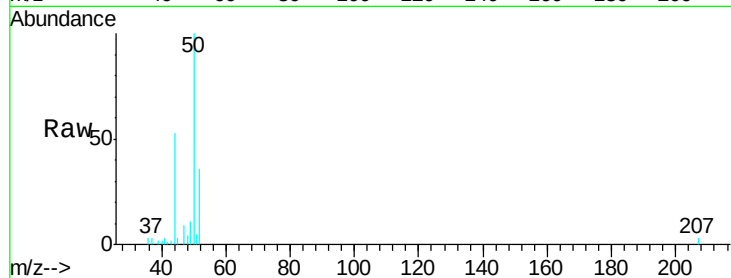
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 50 Resp: 15477

Ion Ratio Lower Upper

50 100

52 36.2 25.8 38.8



#4

Vinyl Chloride

Concen: 2.700 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058676.D

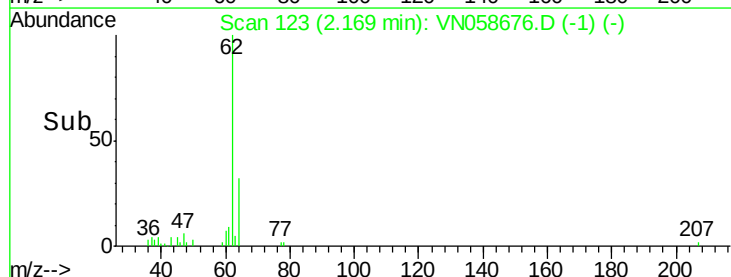
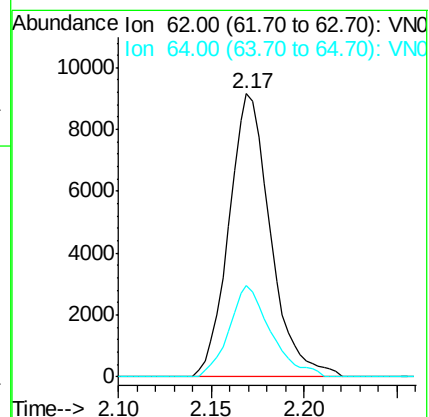
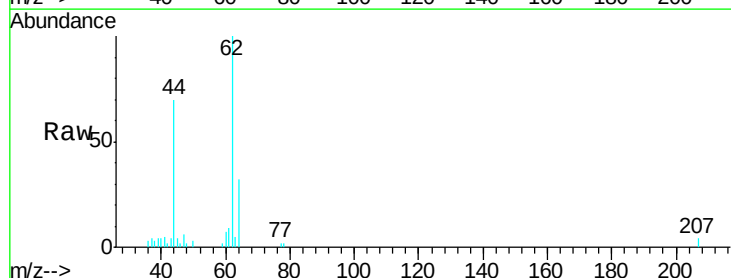
Acq: 10 Oct 2019 20:02

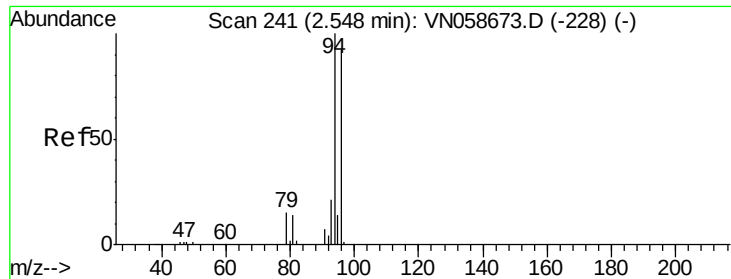
Tgt Ion: 62 Resp: 14260

Ion Ratio Lower Upper

62 100

64 32.3 26.1 39.1





#5

Bromomethane

Concen: 3.088 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

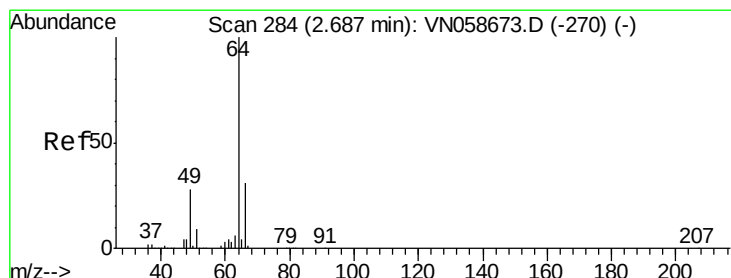
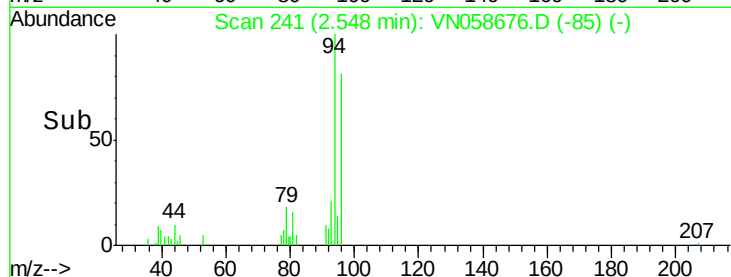
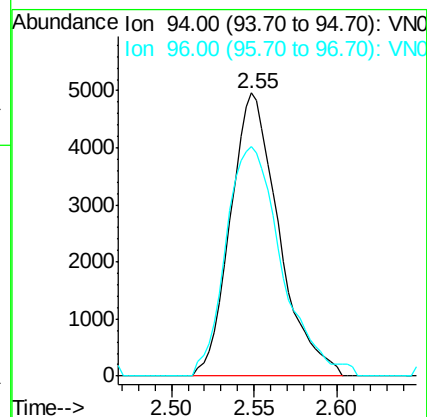
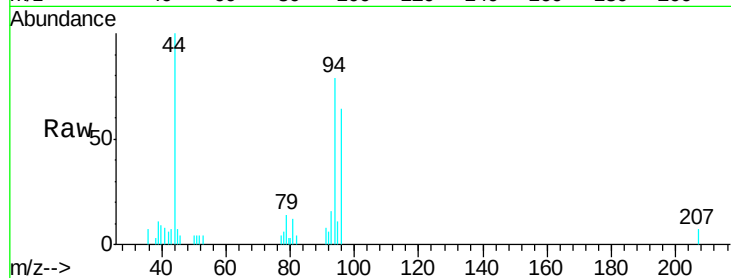
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 94 Resp: 10070

Ion Ratio Lower Upper

94 100

96 81.0 73.7 110.5



#6

Chloroethane

Concen: 2.791 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.00 min

Lab File: VN058676.D

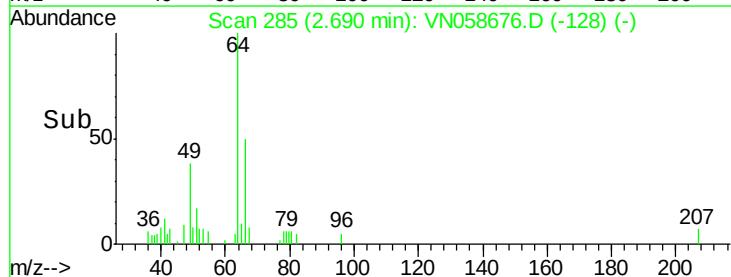
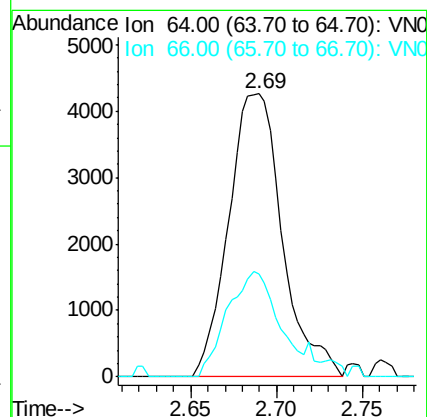
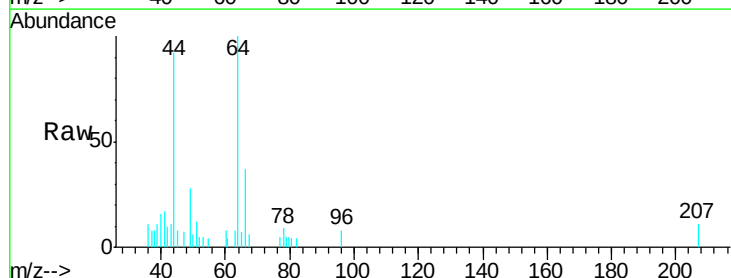
Acq: 10 Oct 2019 20:02

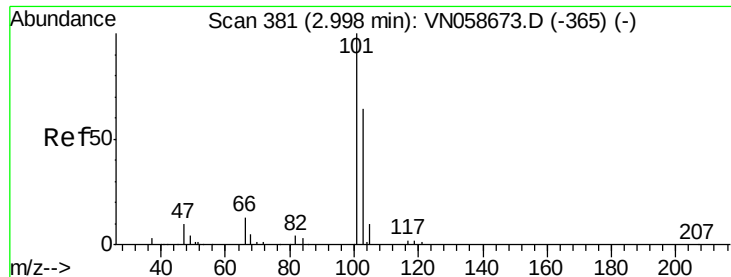
Tgt Ion: 64 Resp: 9267

Ion Ratio Lower Upper

64 100

66 36.6 24.6 36.8





#7

Trichlorofluoromethane

Concen: 2.848 ug/l

RT: 3.00 min Scan# 380

Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

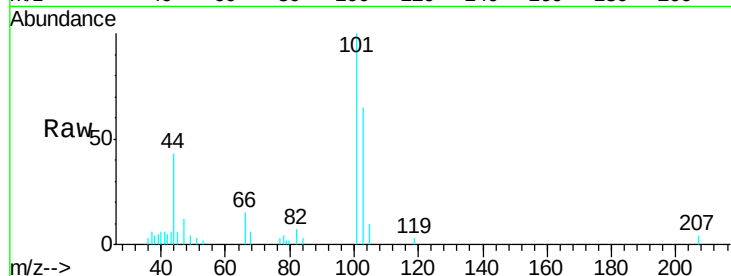
LOD-MDL-WATER-01-QT4-2019

Tgt Ion:101 Resp: 18518

Ion Ratio Lower Upper

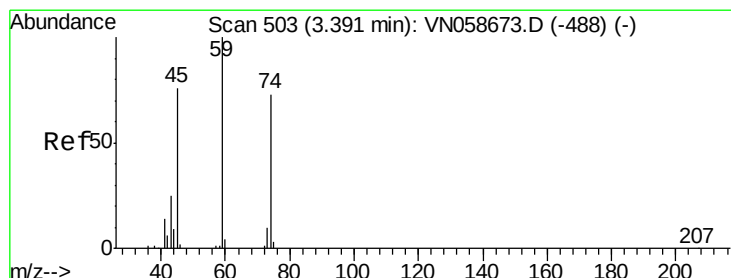
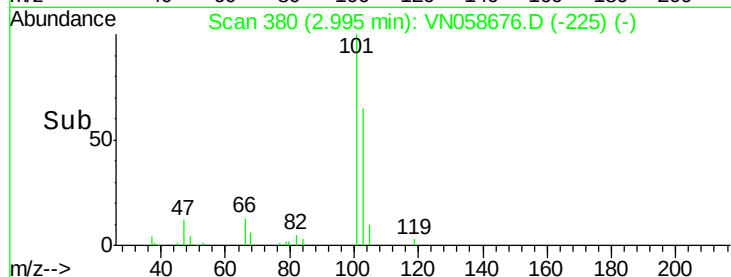
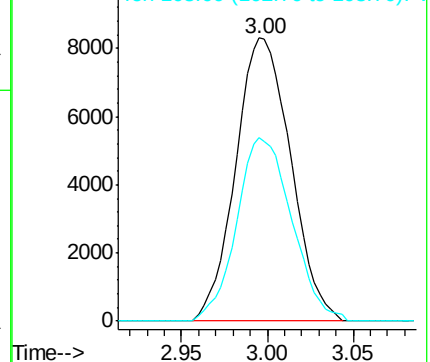
101 100

103 64.9 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 2.708 ug/l

RT: 3.39 min Scan# 503

Delta R.T. -0.00 min

Lab File: VN058676.D

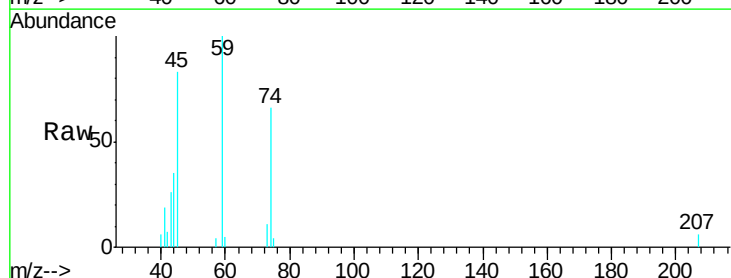
Acq: 10 Oct 2019 20:02

Tgt Ion: 74 Resp: 6714

Ion Ratio Lower Upper

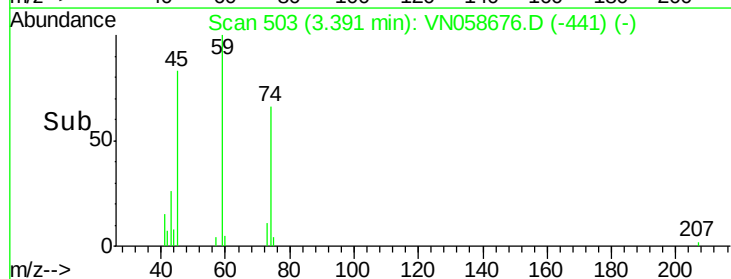
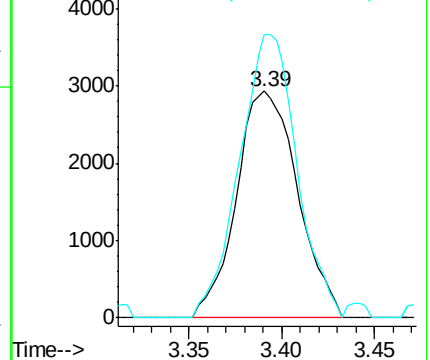
74 100

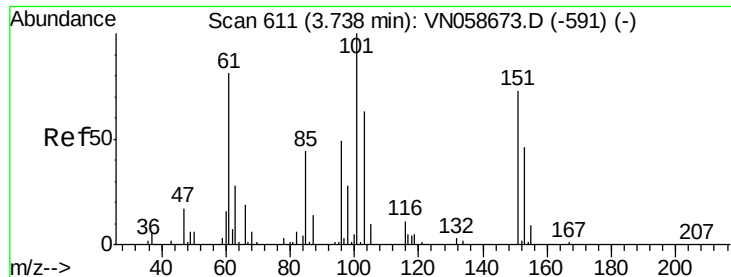
45 117.7 20.6 185.8



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.813 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN058676.D

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ClientSampleId :

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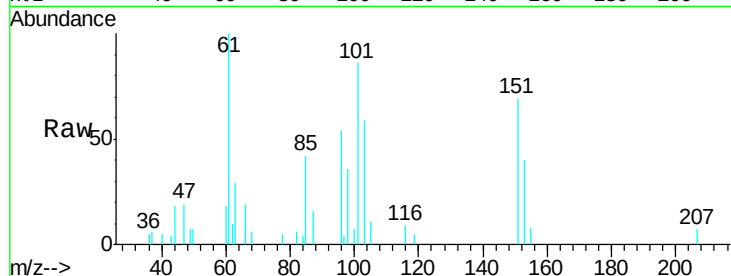
Tgt Ion: 101 Resp: 10582

Ion Ratio Lower Upper

101 100

85 32.0 0.0 93.8

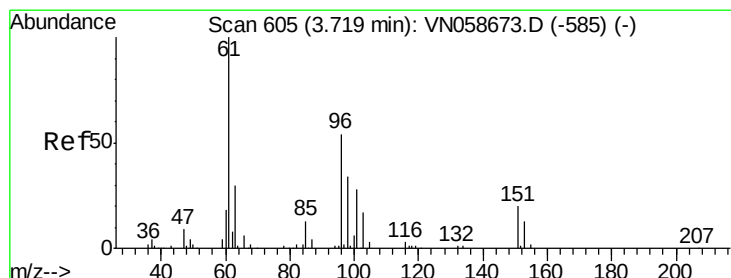
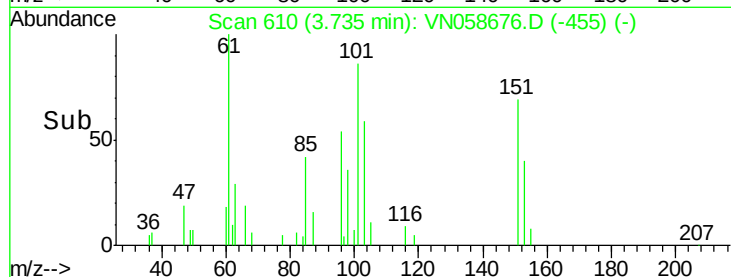
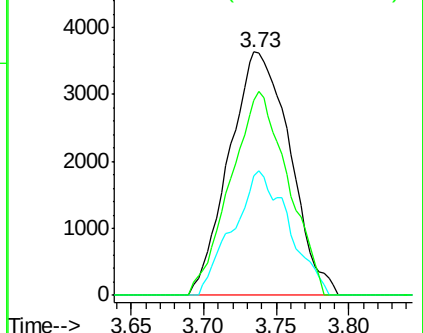
151 79.2 0.0 149.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 2.917 ug/l

RT: 3.72 min Scan# 606

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

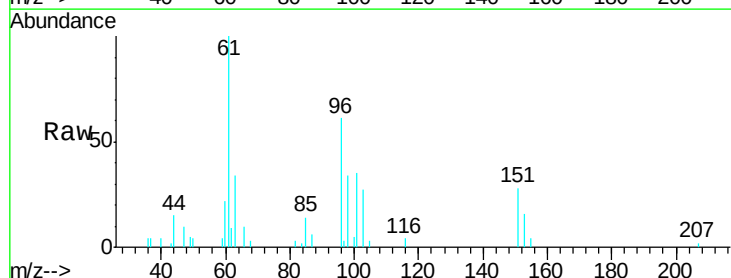
Tgt Ion: 96 Resp: 10776

Ion Ratio Lower Upper

96 100

61 158.4 148.5 222.7

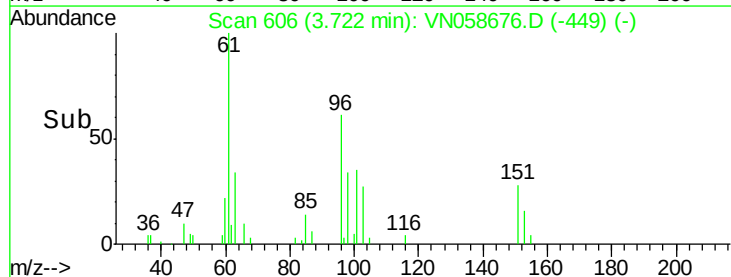
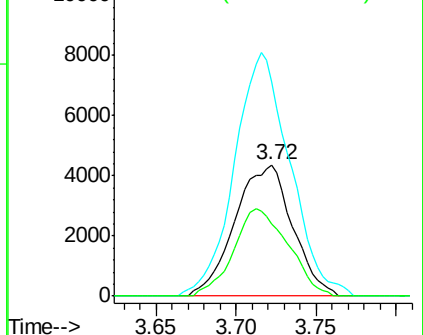
98 55.3 51.0 76.6

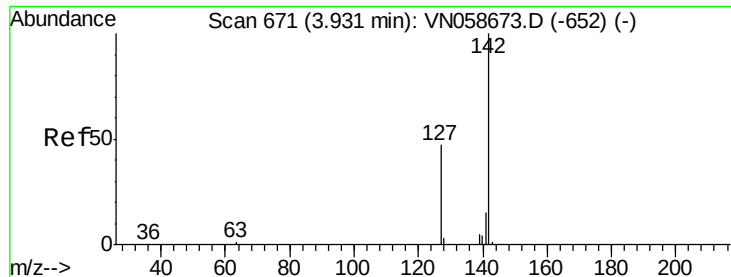


Abundance Ion 96.00 (95.70 to 96.70): VN

Ion 61.00 (60.70 to 61.70): VN

Ion 98.00 (97.70 to 98.70): VN

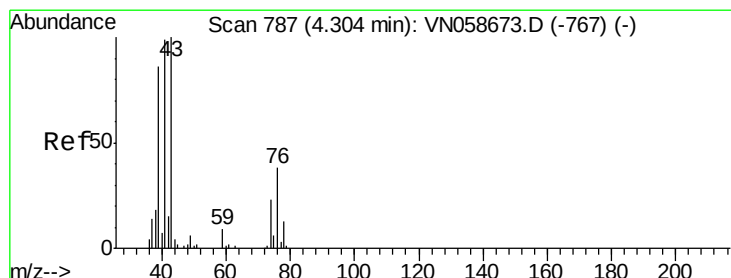
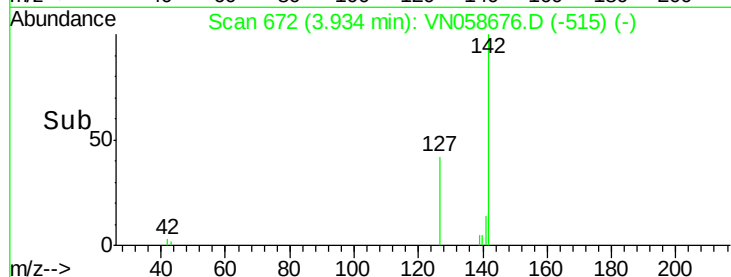
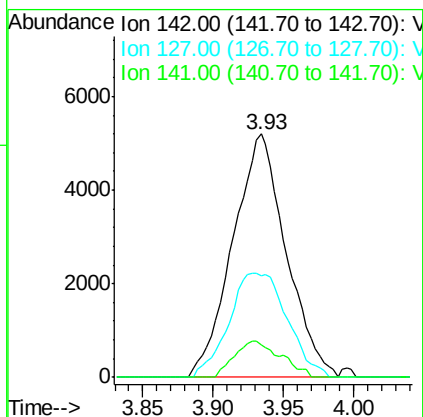
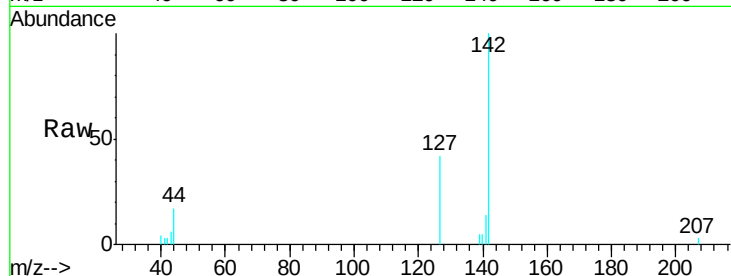




#11
Methyl Iodide
Concen: 2.667 ug/l
RT: 3.93 min Scan# 672
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

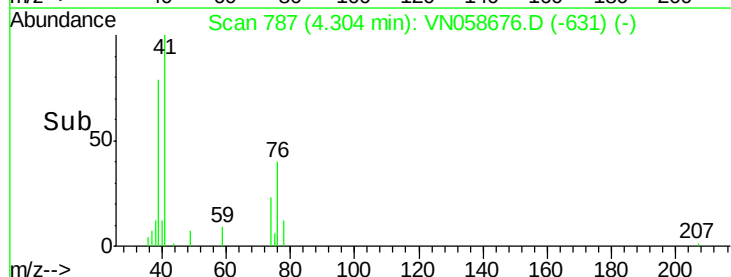
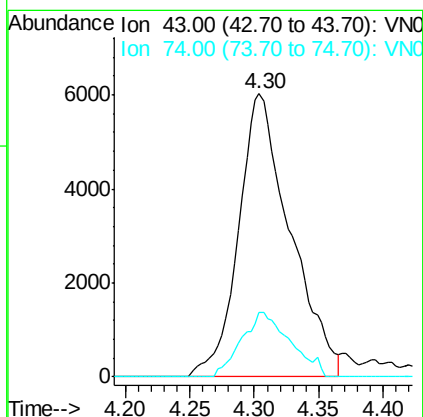
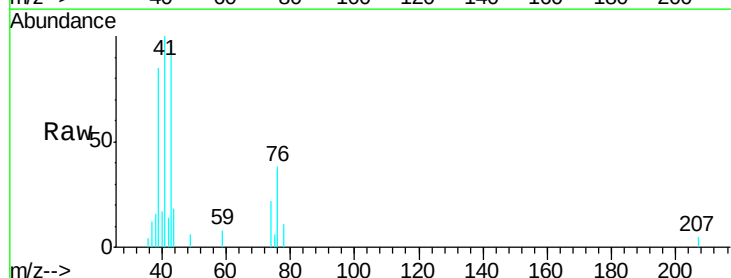
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

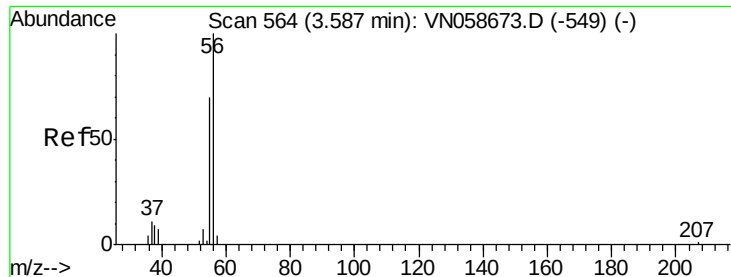
Tgt Ion: 142 Resp: 13721
Ion Ratio Lower Upper
142 100
127 41.8 23.5 70.6
141 13.5 7.4 22.2



#12
Methyl Acetate
Concen: 2.838 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion: 43 Resp: 16779
Ion Ratio Lower Upper
43 100
74 23.6 18.1 27.1





#13

Acrolein

Concen: 15.419 ug/l

RT: 3.59 min Scan# 564

Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

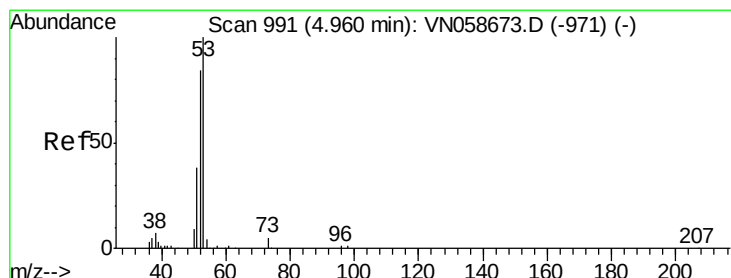
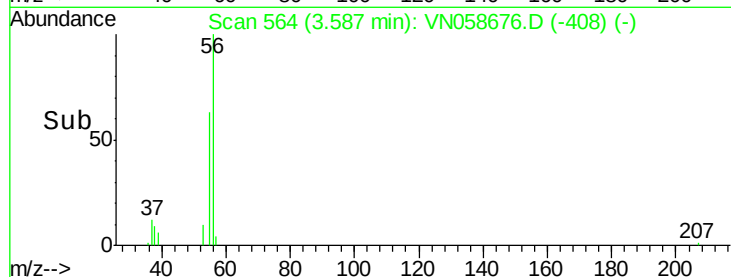
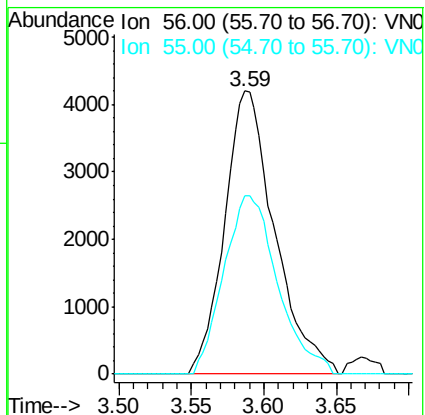
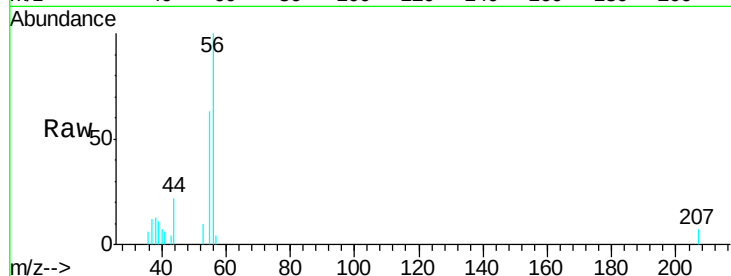
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 56 Resp: 10071

Ion Ratio Lower Upper

56 100

55 67.9 55.9 83.9



#14

Acrylonitrile

Concen: 12.943 ug/l

RT: 4.97 min Scan# 993

Delta R.T. 0.01 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

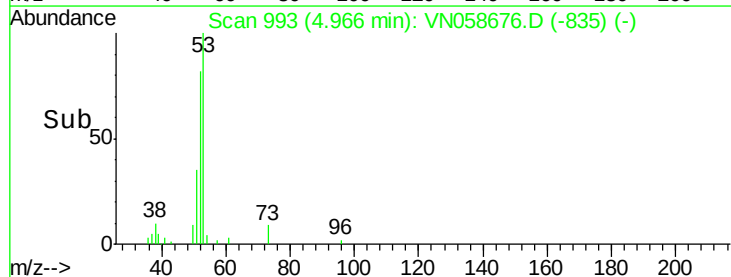
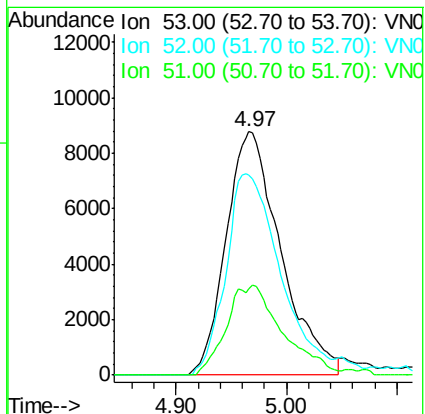
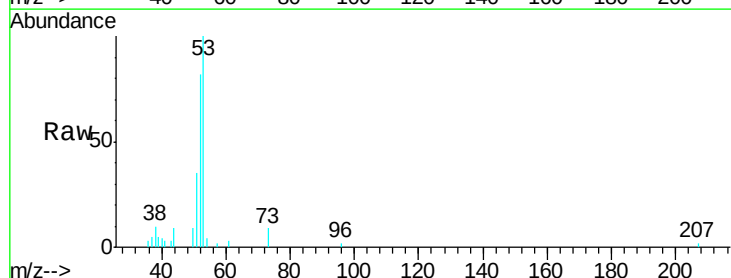
Tgt Ion: 53 Resp: 30148

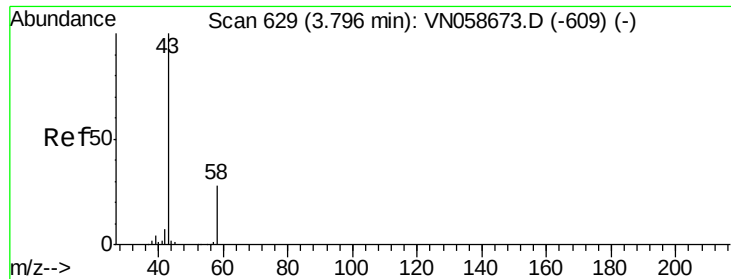
Ion Ratio Lower Upper

53 100

52 82.3 42.2 126.6

51 14.2 18.8 56.4#





#15

Acetone

Concen: 12.893 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

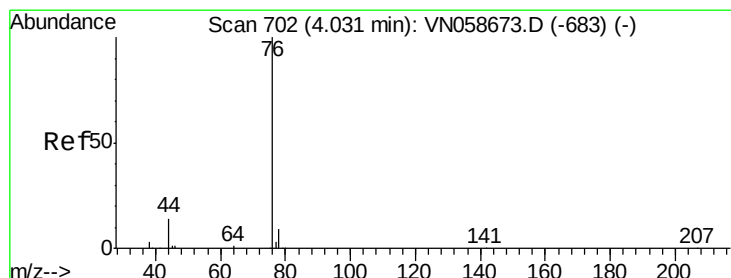
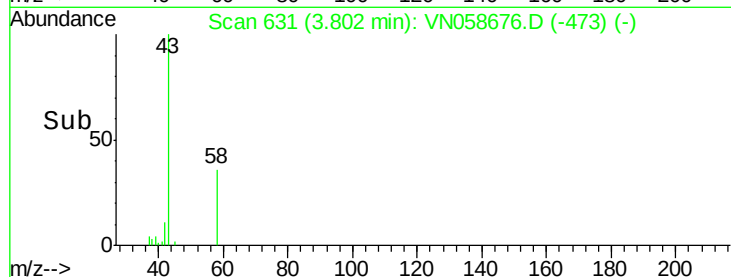
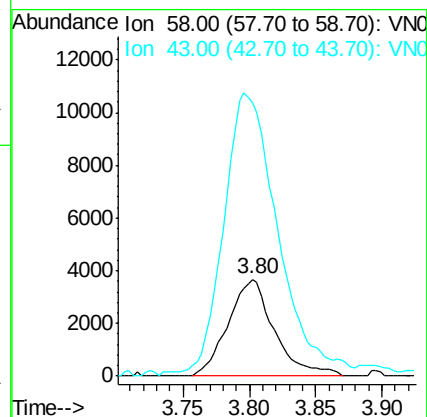
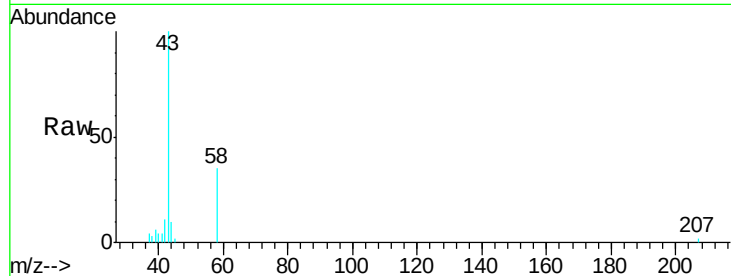
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 58 Resp: 8914

Ion Ratio Lower Upper

58 100

43 271.3 281.7 422.5#



#16

Carbon Disulfide

Concen: 3.023 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN058676.D

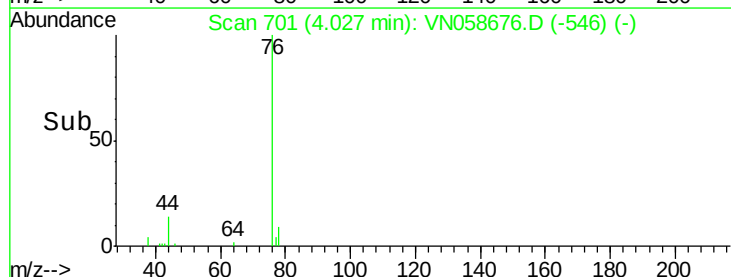
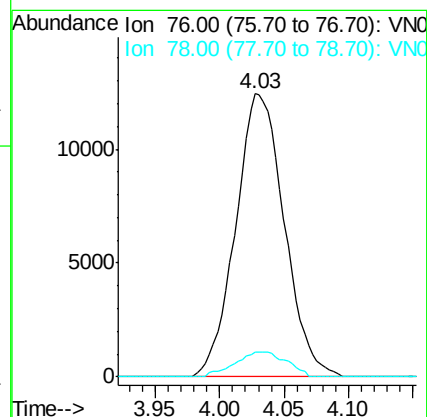
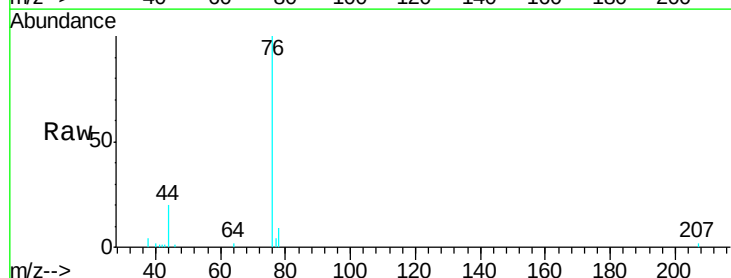
Acq: 10 Oct 2019 20:02

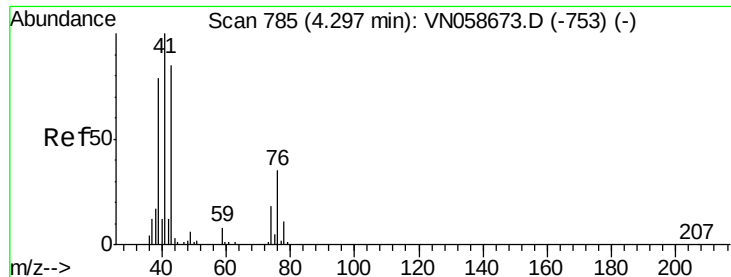
Tgt Ion: 76 Resp: 32576

Ion Ratio Lower Upper

76 100

78 8.5 7.4 11.0

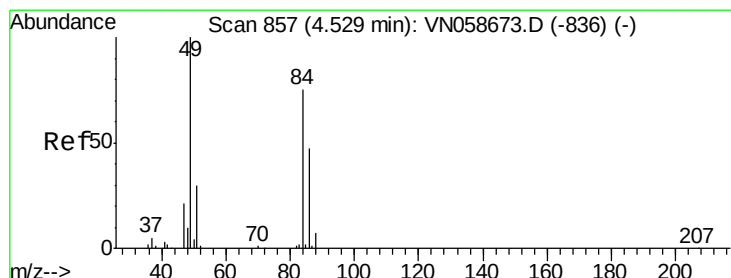
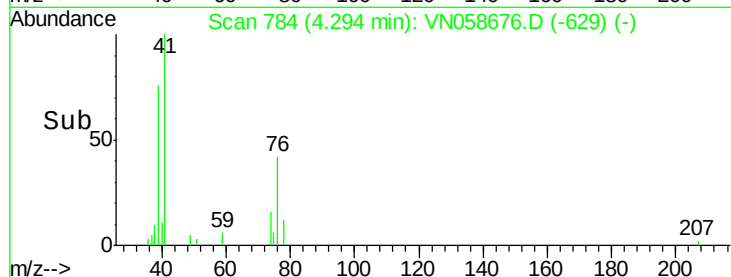
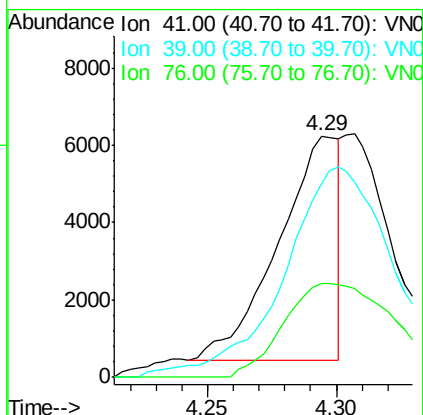
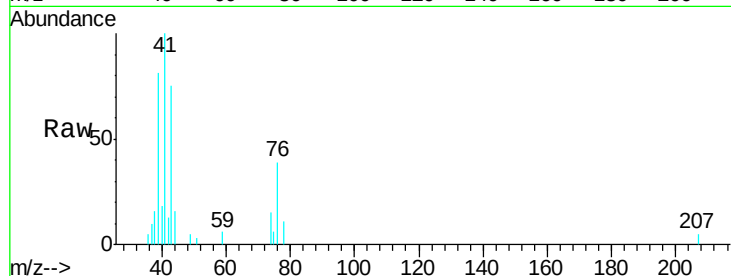




#17
 Allyl chloride
 Concen: 1.284 ug/l
 RT: 4.29 min Scan# 784
 Delta R.T. -0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

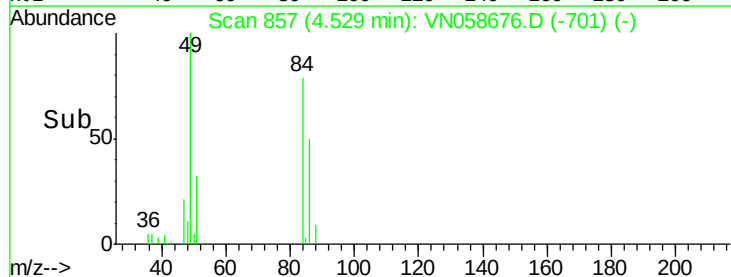
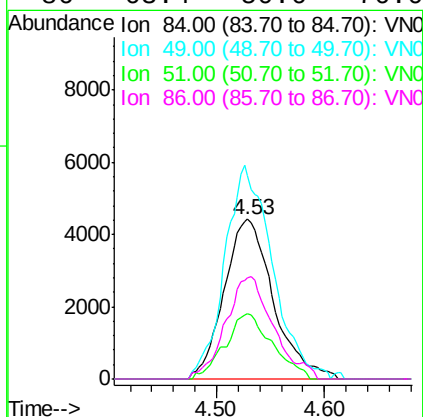
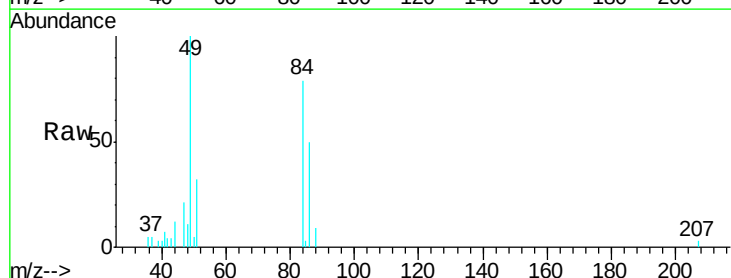
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

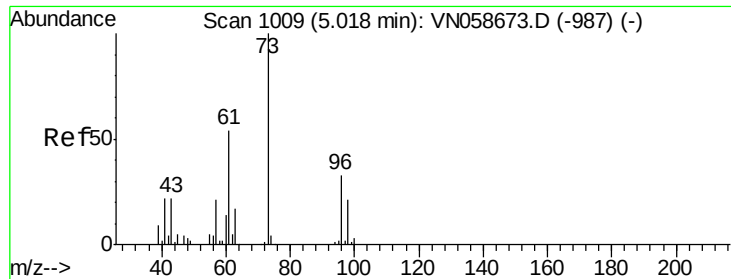
Tgt Ion: 41 Resp: 9444
 Ion Ratio Lower Upper
 41 100
 39 81.7 39.6 118.8
 76 42.0 17.6 52.9



#18
 Methylene Chloride
 Concen: 3.141 ug/l
 RT: 4.53 min Scan# 857
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion: 84 Resp: 14051
 Ion Ratio Lower Upper
 84 100
 49 127.3 106.6 160.0
 51 41.2 32.4 48.6
 86 63.4 50.6 76.0

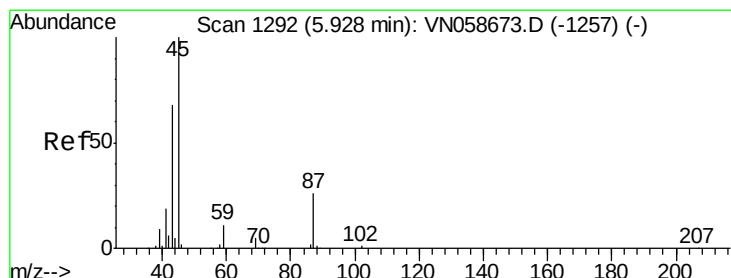
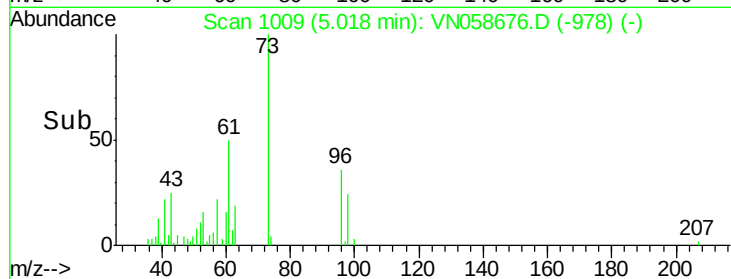
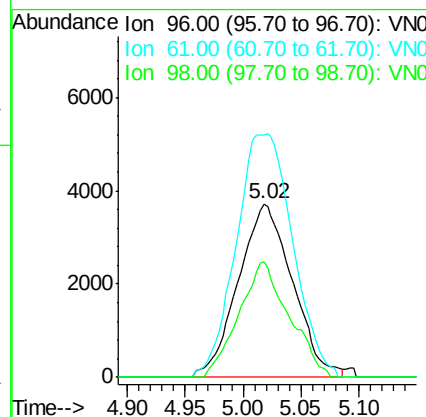
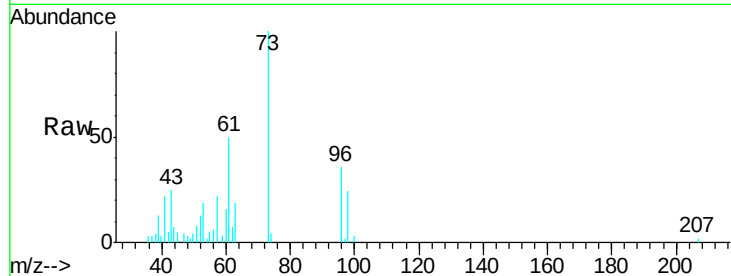




#19
trans-1,2-Dichloroethene
Concen: 3.009 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

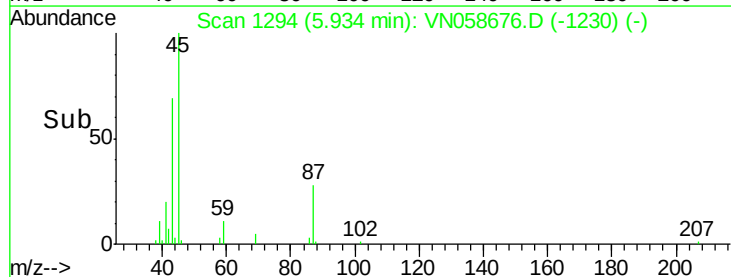
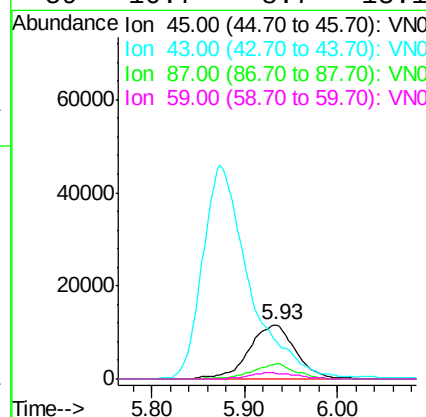
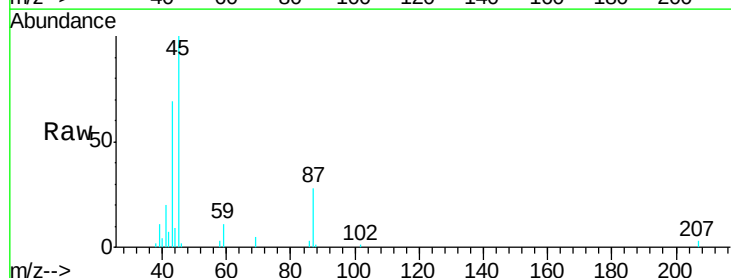
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

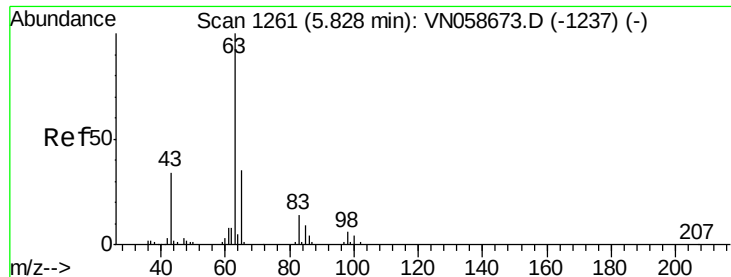
Tgt Ion: 96 Resp: 12104
Ion Ratio Lower Upper
96 100
61 140.1 131.8 197.6
98 66.8 52.6 79.0



#20
Diisopropyl ether
Concen: 2.682 ug/l
RT: 5.93 min Scan# 1294
Delta R.T. 0.01 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion: 45 Resp: 40191
Ion Ratio Lower Upper
45 100
43 63.7 54.7 82.1
87 27.5 21.5 32.3
59 10.7 8.7 13.1





#21

1,1-Dichloroethane

Concen: 2.925 ug/l

RT: 5.83 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

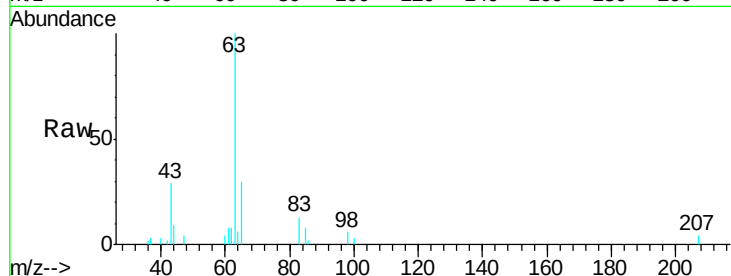
Tgt Ion: 63 Resp: 24270

Ion Ratio Lower Upper

63 100

98 5.7 2.9 8.6

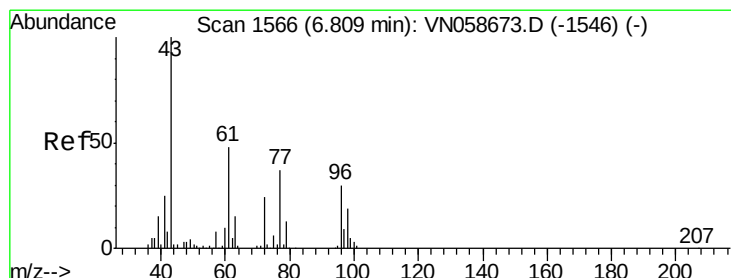
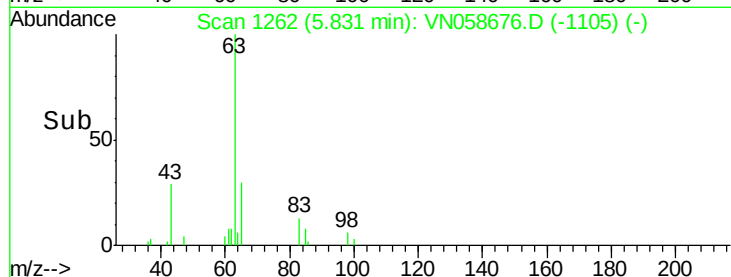
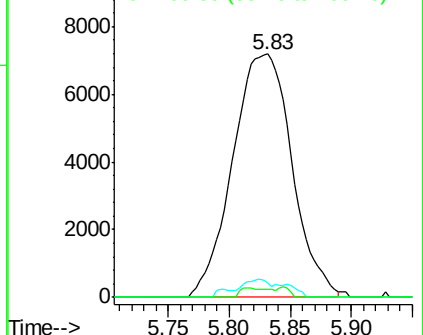
100 3.4 1.8 5.5



Abundance Ion 63.00 (62.70 to 63.70): VN058676.D (-1105) (-)

Ion 98.00 (97.70 to 98.70): VN058676.D (-1105) (-)

Ion 100.00 (99.70 to 100.70): VN058676.D (-1105) (-)



#22

cis-1,2-Dichloroethene

Concen: 2.899 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

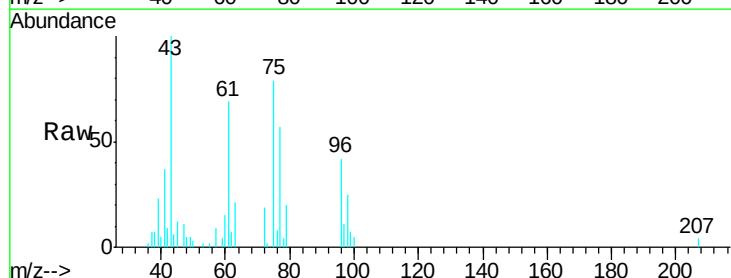
Tgt Ion: 96 Resp: 13904

Ion Ratio Lower Upper

96 100

61 152.2 127.2 190.8

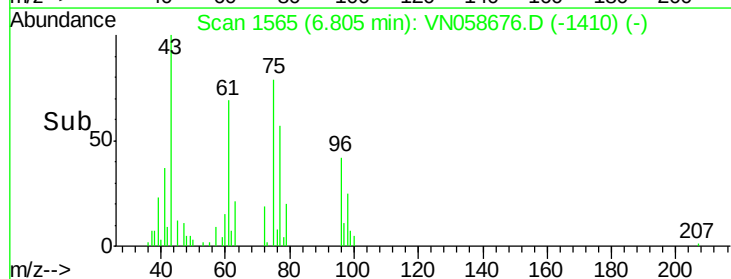
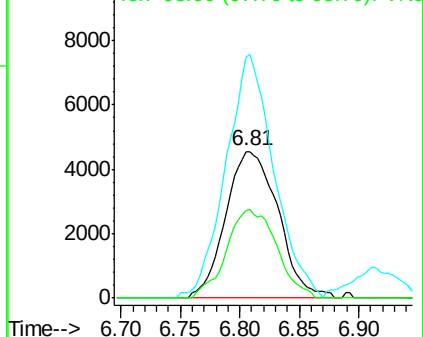
98 57.8 50.5 75.7

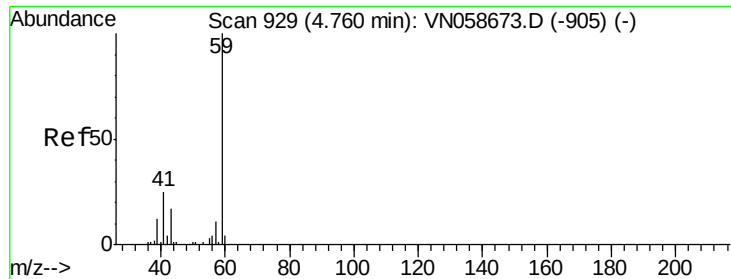


Abundance Ion 96.00 (95.70 to 96.70): VN058676.D (-1410) (-)

Ion 61.00 (60.70 to 61.70): VN058676.D (-1410) (-)

Ion 98.00 (97.70 to 98.70): VN058676.D (-1410) (-)



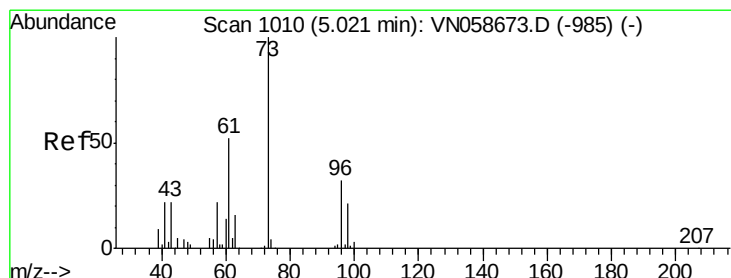
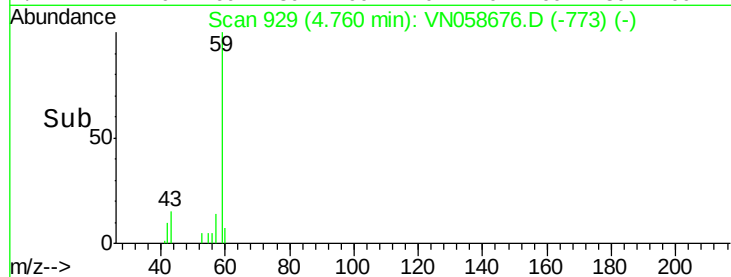
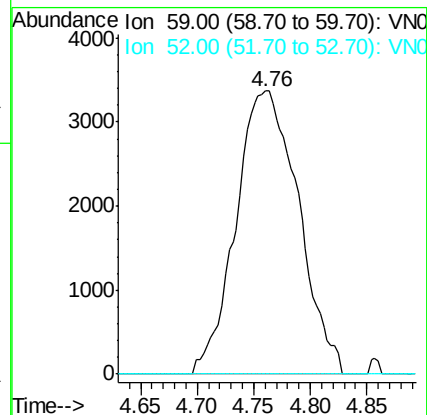
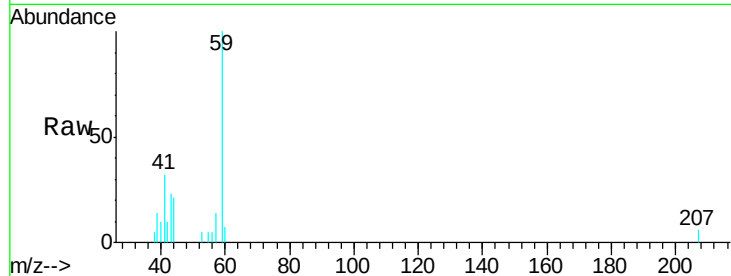


#23

tert-Butyl Alcohol
Concen: 13.559 ug/l
RT: 4.76 min Scan# 929
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

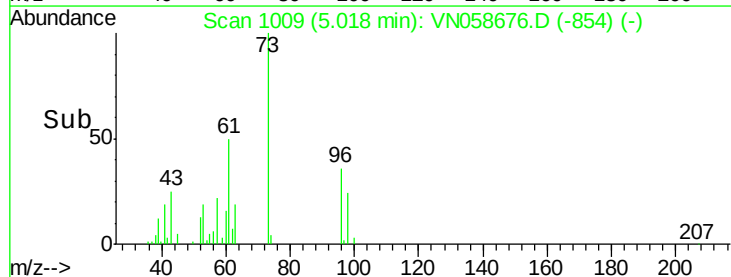
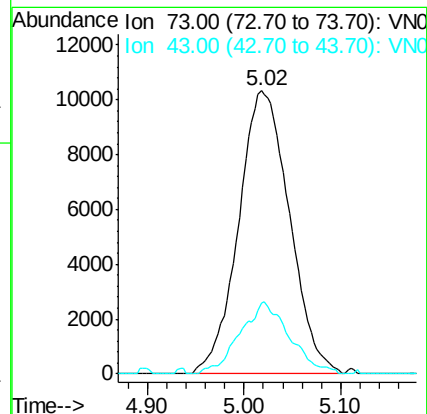
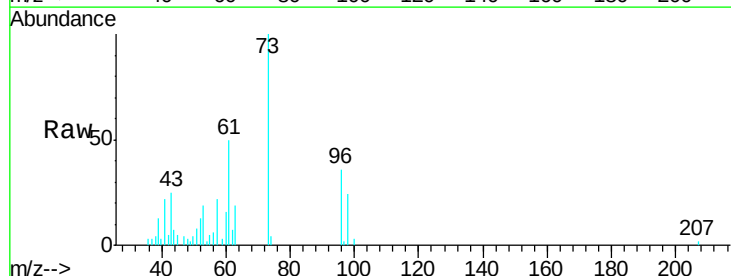
Tgt Ion: 59 Resp: 12918
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

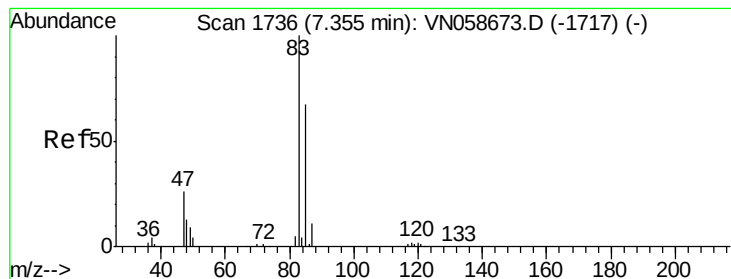


#24

Methyl tert-Butyl Ether
Concen: 2.742 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. -0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion: 73 Resp: 37800
Ion Ratio Lower Upper
73 100
43 24.7 17.9 26.9





#25

Chloroform

Concen: 2.919 ug/l

RT: 7.35 min Scan# 1735

Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

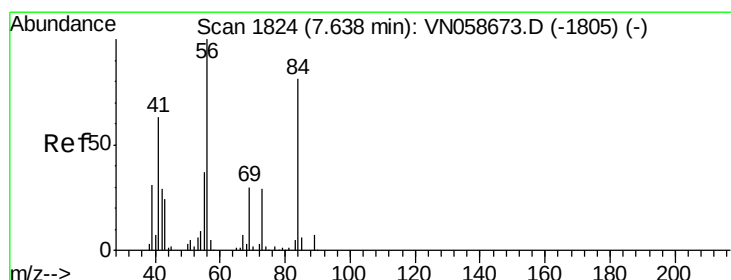
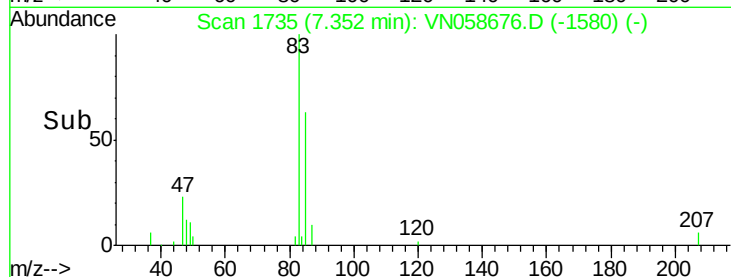
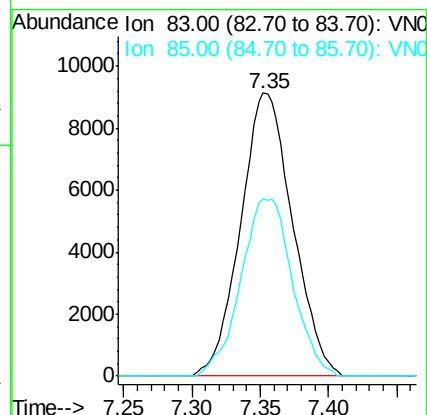
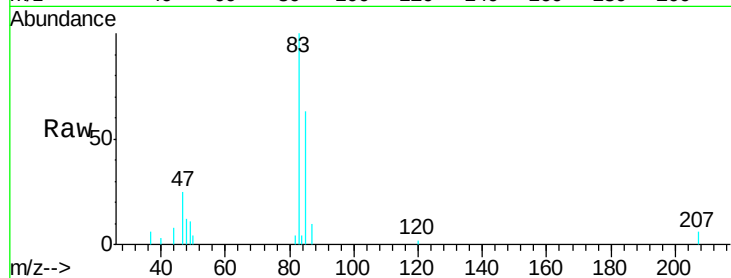
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 83 Resp: 24153

Ion Ratio Lower Upper

83 100

85 62.7 53.8 80.8



#26

Cyclohexane

Concen: 2.777 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

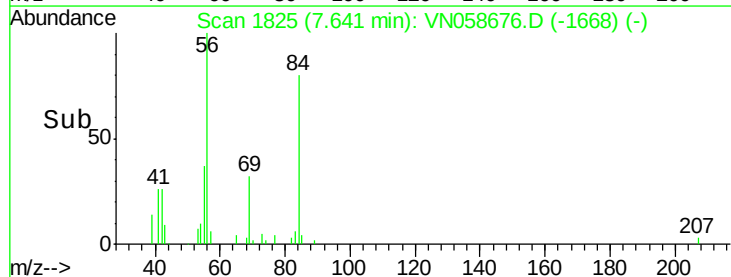
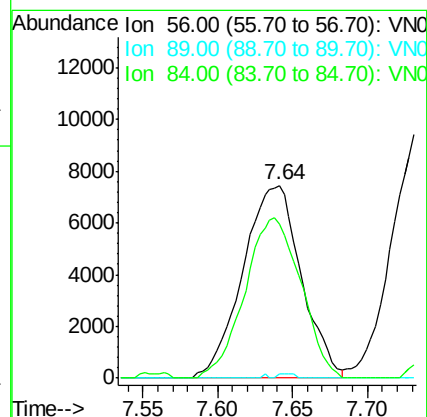
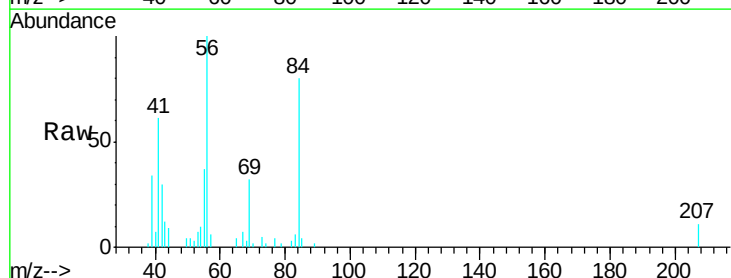
Tgt Ion: 56 Resp: 20224

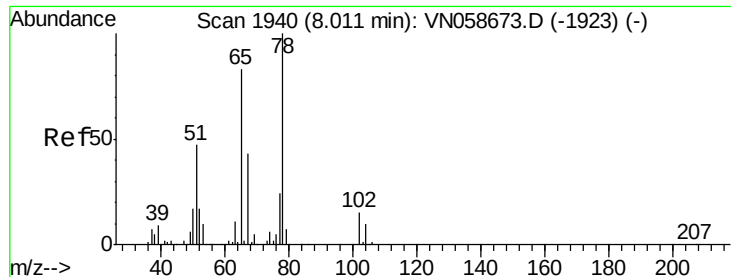
Ion Ratio Lower Upper

56 100

89 0.6 6.2 9.2#

84 79.9 65.6 98.4

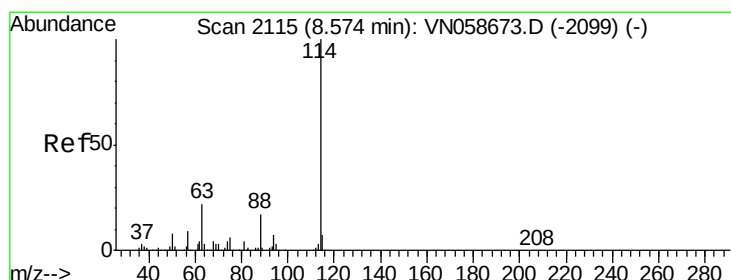
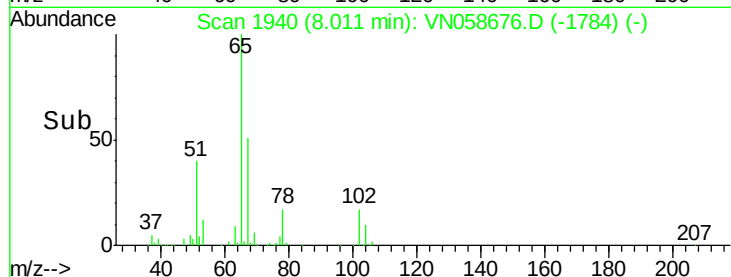
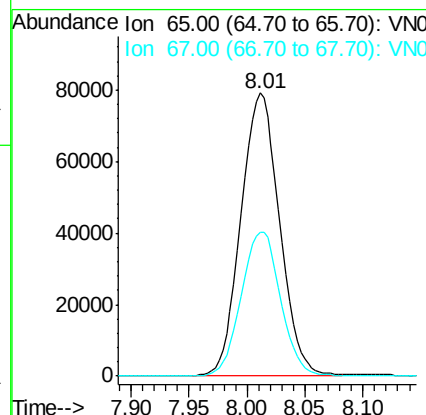
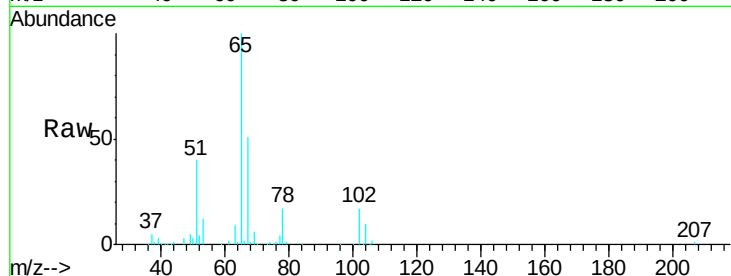




#27
 1,2-Dichloroethane-d4
 Concen: 30.722 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

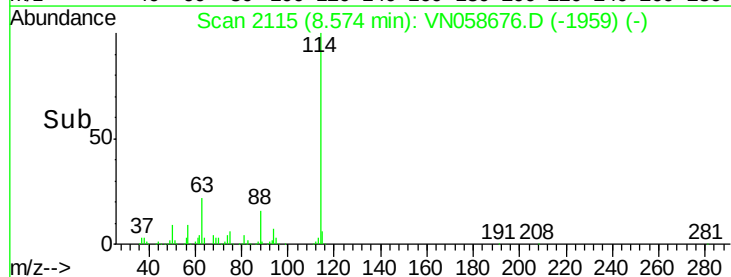
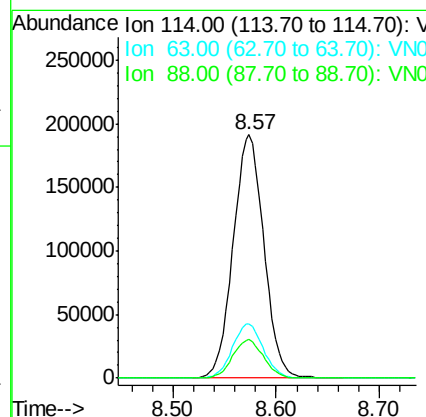
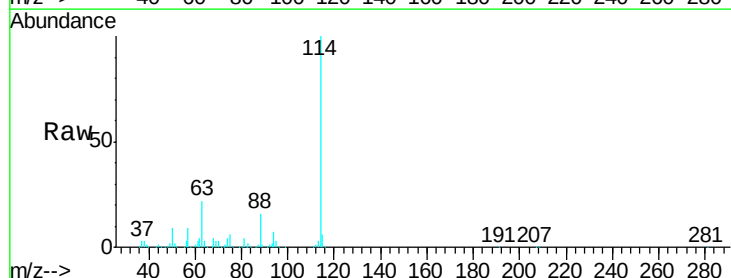
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

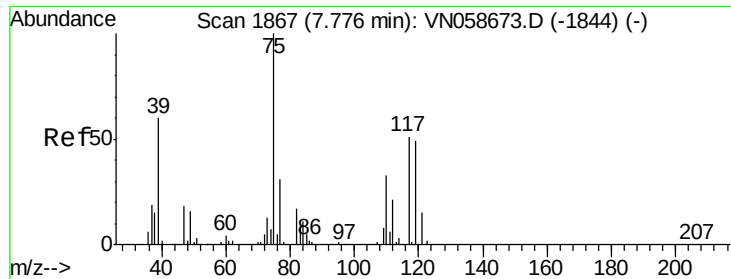
Tgt Ion: 65 Resp: 184130
 Ion Ratio Lower Upper
 65 100
 67 51.7 41.5 62.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion: 114 Resp: 397119
 Ion Ratio Lower Upper
 114 100
 63 22.3 18.1 27.1
 88 15.9 13.0 19.4

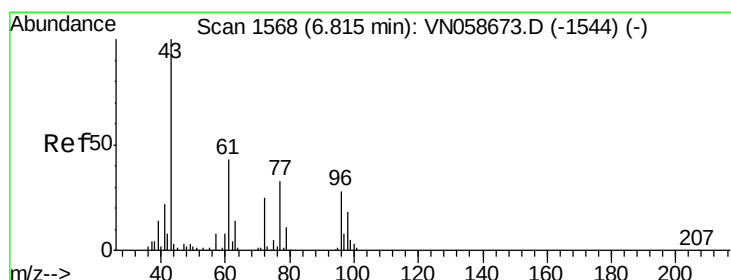
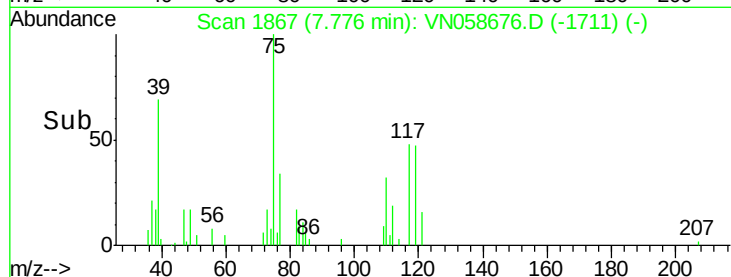
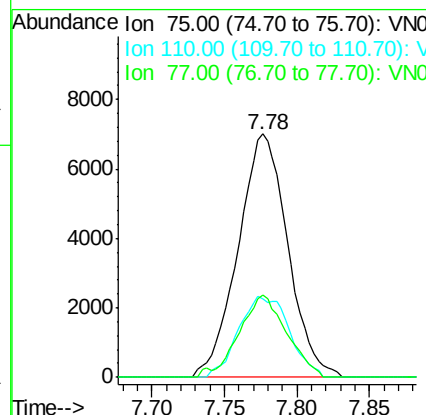
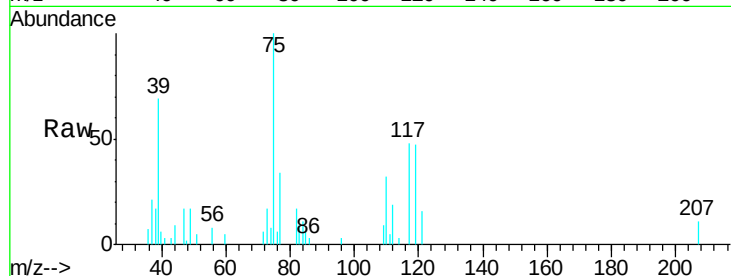




#29
 1,1-Dichloropropene
 Concen: 2.668 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

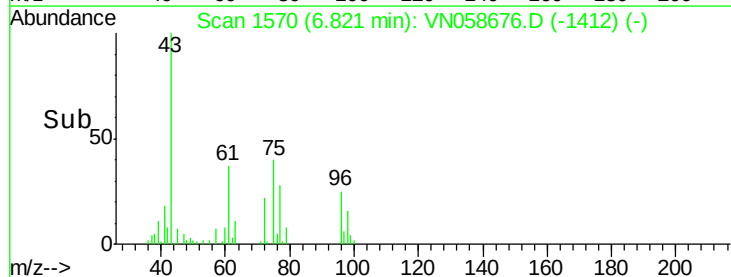
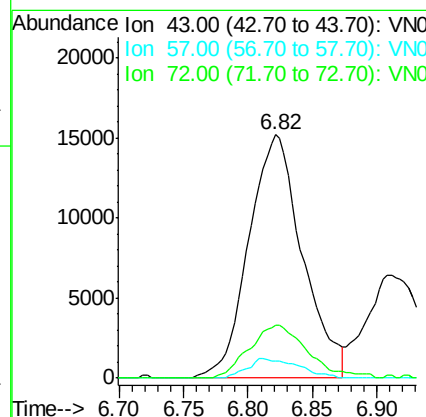
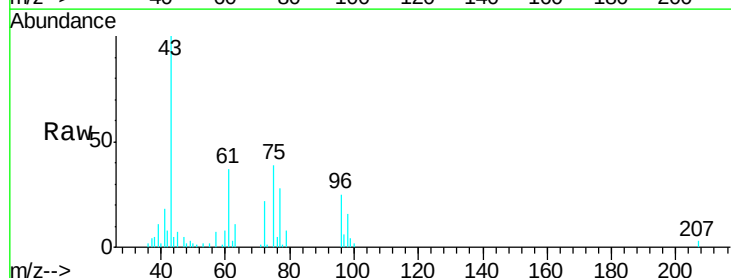
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

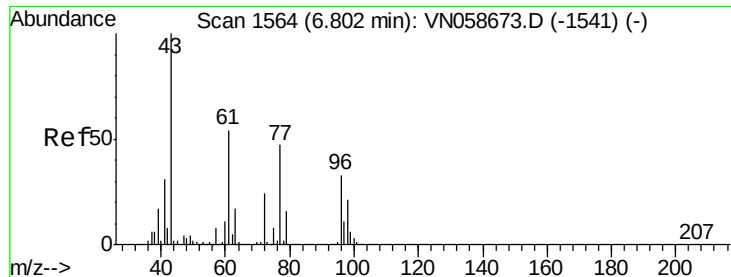
Tgt Ion	Ratio	Lower	Upper
75	100		
110	19.8	0.0	64.6
77	31.6	0.0	60.8



#30
 2-Butanone
 Concen: 12.457 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion	Ratio	Lower	Upper
43	100		
57	7.3	6.5	9.7
72	23.3	20.1	30.1





#31

2,2-Dichloropropane

Concen: 2.686 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

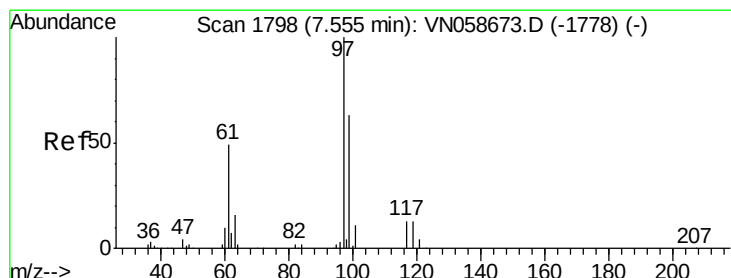
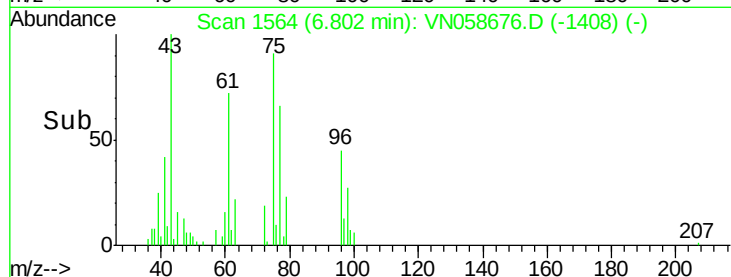
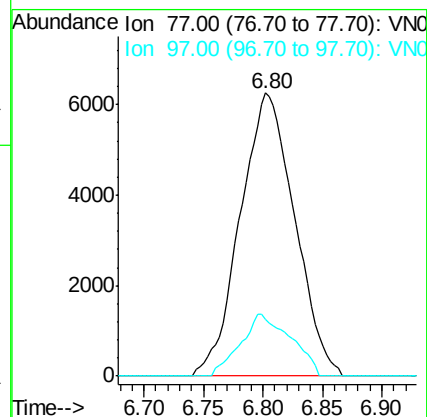
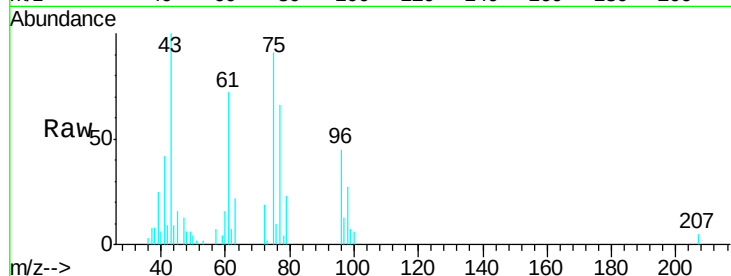
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 77 Resp: 19792

Ion Ratio Lower Upper

77 100

97 20.3 17.9 26.9



#32

1,1,1-Trichloroethane

Concen: 2.825 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

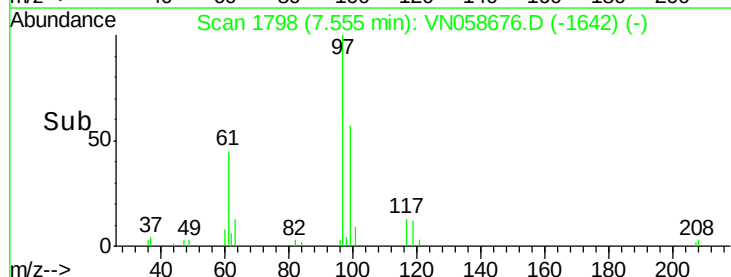
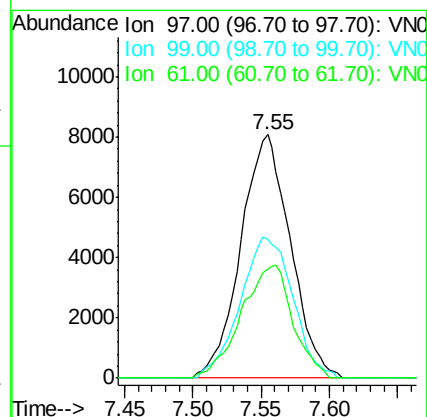
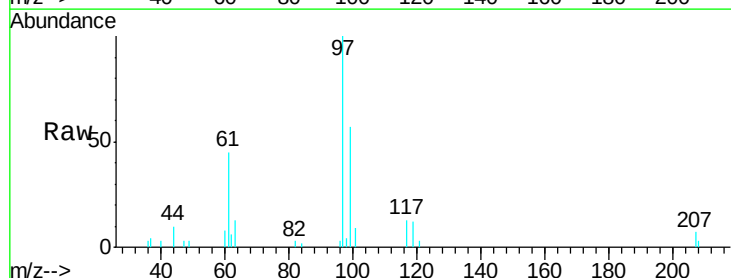
Tgt Ion: 97 Resp: 20427

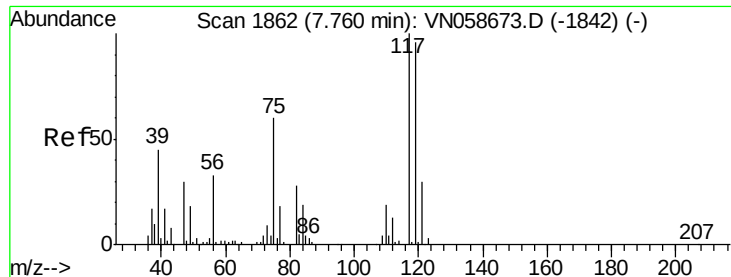
Ion Ratio Lower Upper

97 100

99 61.3 51.3 76.9

61 48.1 38.4 57.6

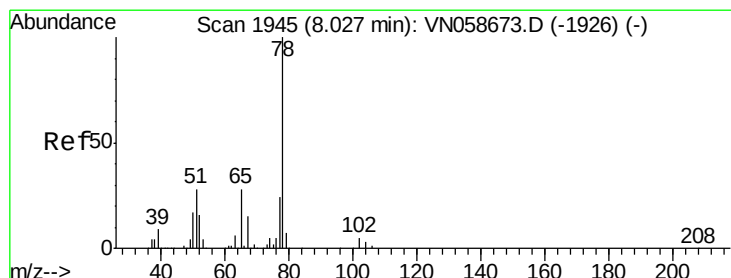
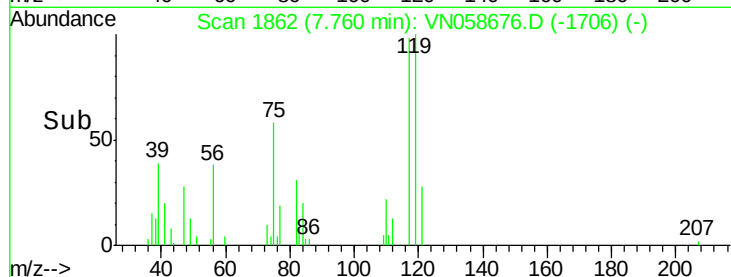
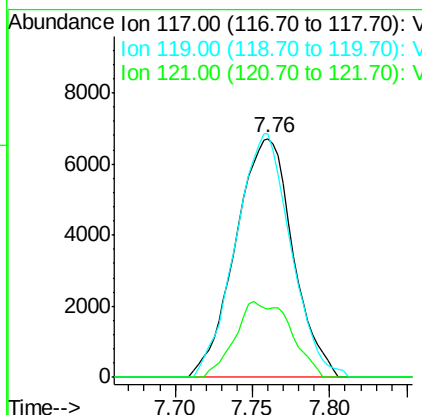
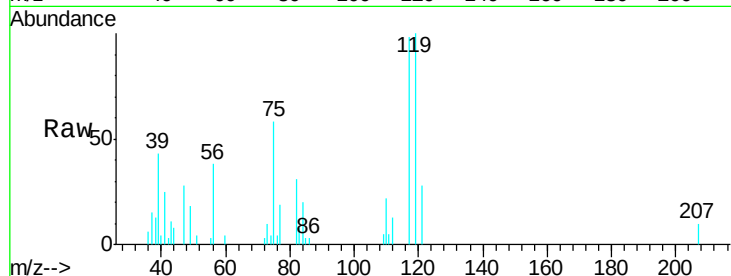




#33
Carbon Tetrachloride
Concen: 2.760 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

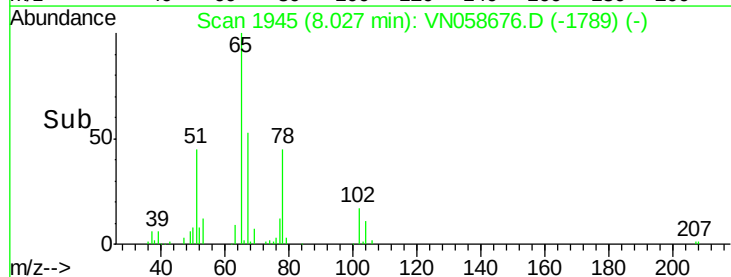
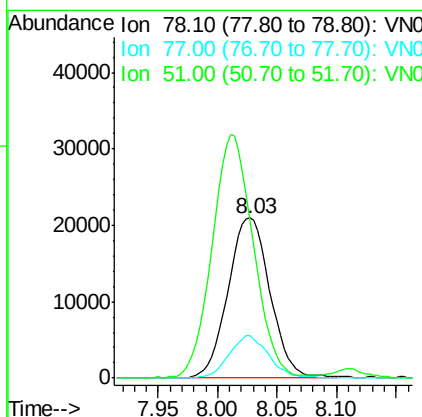
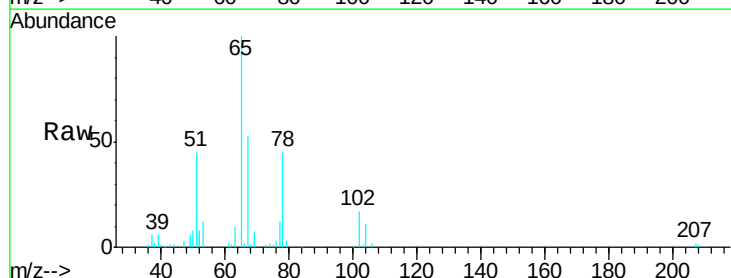
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

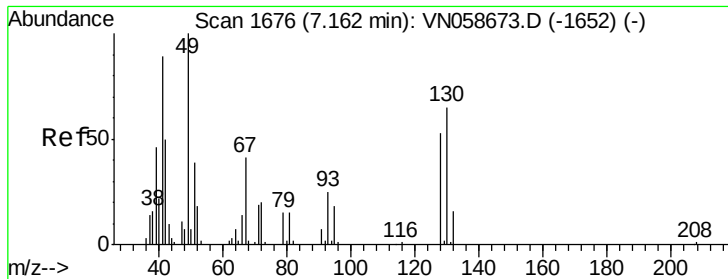
Tgt Ion: 117 Resp: 17274
Ion Ratio Lower Upper
117 100
119 101.8 76.9 115.3
121 28.8 23.8 35.8



#34
Benzene
Concen: 2.788 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion: 78 Resp: 51310
Ion Ratio Lower Upper
78 100
77 26.6 19.2 28.8
51 94.6 22.1 33.1#

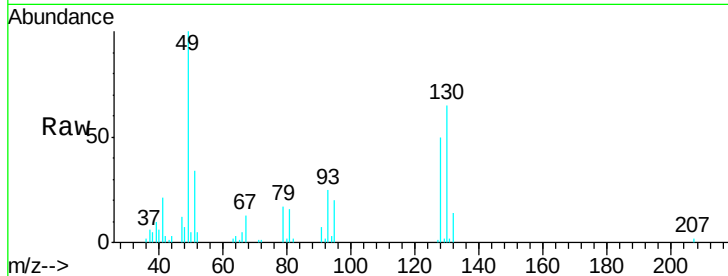




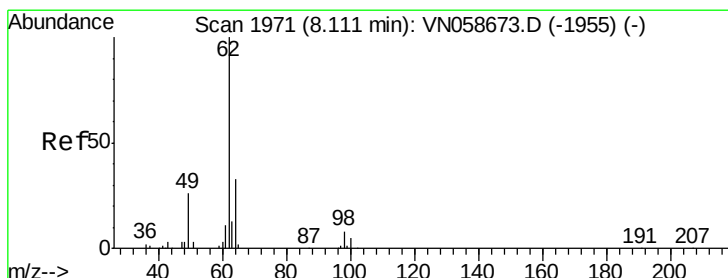
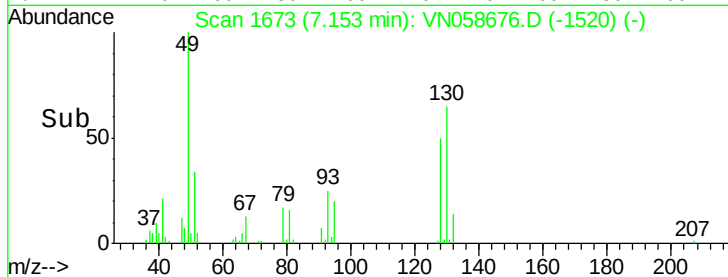
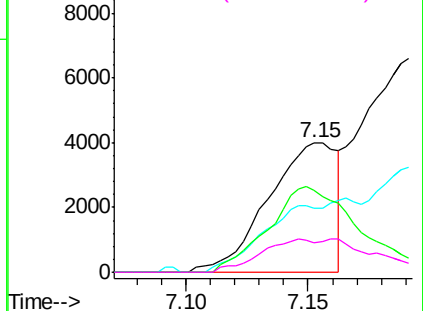
#35
Methacrylonitrile
Concen: 2.504 ug/l
RT: 7.15 min Scan# 1673
Delta R.T. -0.01 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion:	41	Resp:	7813
Ion	Ratio	Lower	Upper
41	100		
39	49.3	25.8	77.4
67	62.6	23.0	69.0
52	22.5	10.1	30.1

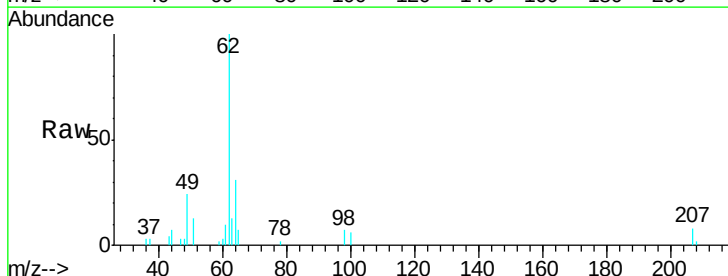


Abundance Ion 41.00 (40.70 to 41.70): VN058676.D (-1652) (-)
Ion 39.00 (38.70 to 39.70): VN058676.D (-1652) (-)
Ion 67.00 (66.70 to 67.70): VN058676.D (-1652) (-)
Ion 52.00 (51.70 to 52.70): VN058676.D (-1652) (-)

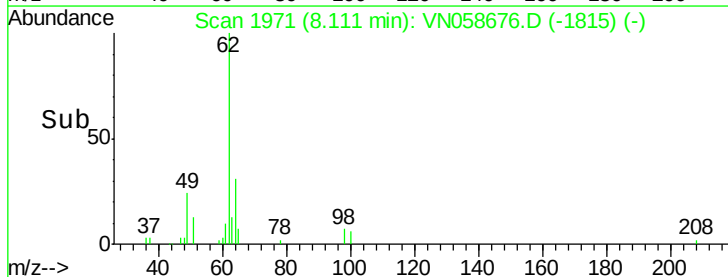
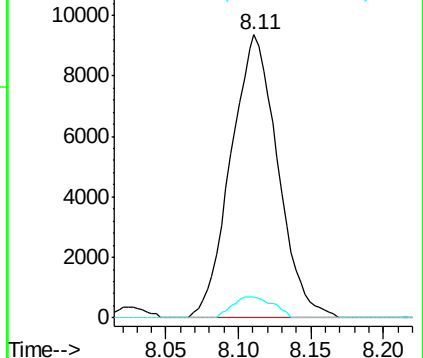


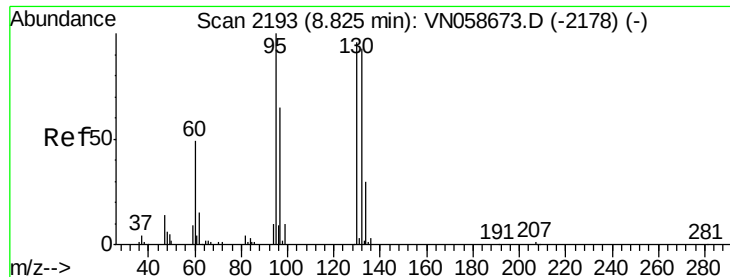
#36
1,2-Dichloroethane
Concen: 2.985 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion:	62	Resp:	21004
Ion	Ratio	Lower	Upper
62	100		
98	6.5	6.4	9.6



Abundance Ion 62.00 (61.70 to 62.70): VN058676.D (-1955) (-)
Ion 98.00 (97.70 to 98.70): VN058676.D (-1955) (-)





#37

Trichloroethene

Concen: 2.820 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

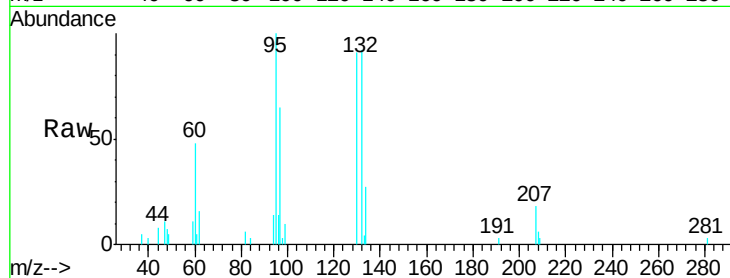
LOD-MDL-WATER-01-QT4-2019

Tgt Ion:130 Resp: 12751

Ion Ratio Lower Upper

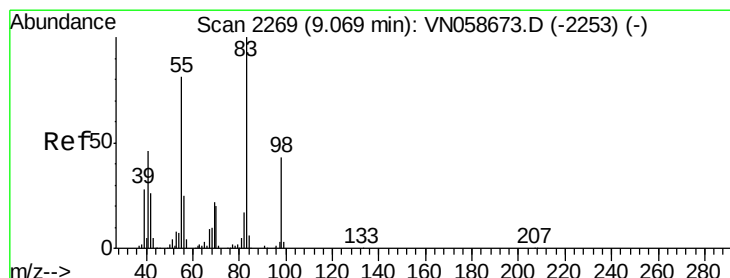
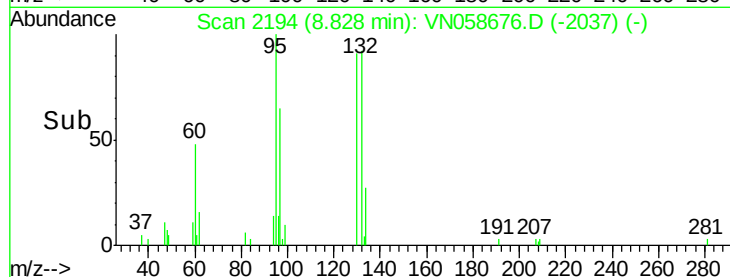
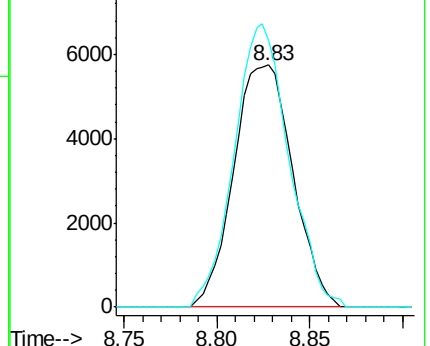
130 100

95 110.2 83.2 124.8



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN0



#38

Methylcyclohexane

Concen: 2.649 ug/l

RT: 9.07 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

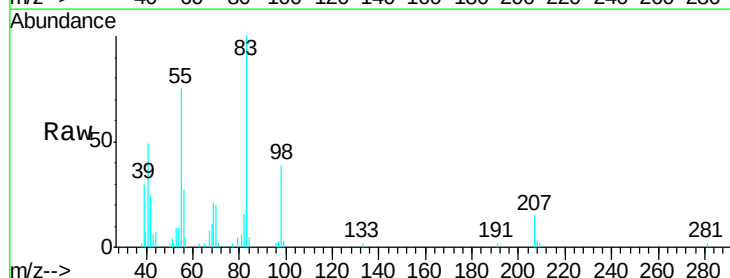
Tgt Ion: 83 Resp: 19200

Ion Ratio Lower Upper

83 100

55 81.6 40.4 121.1

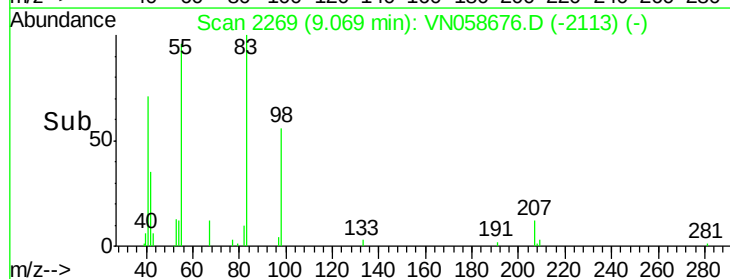
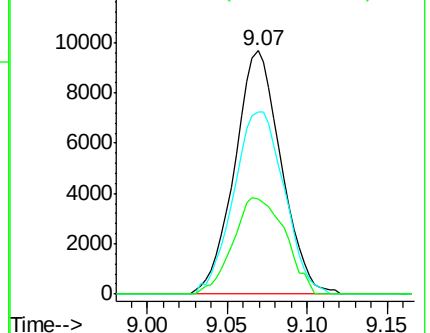
98 44.3 21.6 65.0

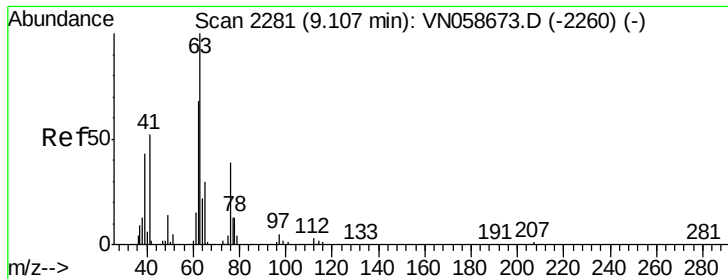


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0





#39

1,2-Dichloropropane

Concen: 2.721 ug/l

RT: 9.11 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

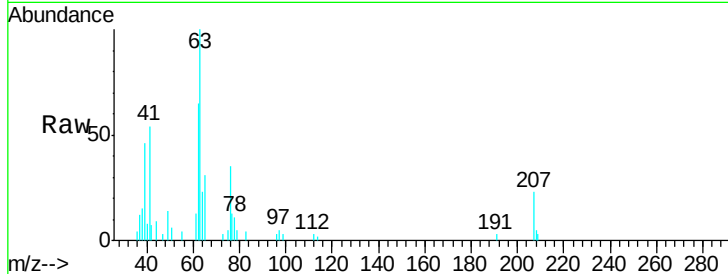
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 63 Resp: 13686

Ion Ratio Lower Upper

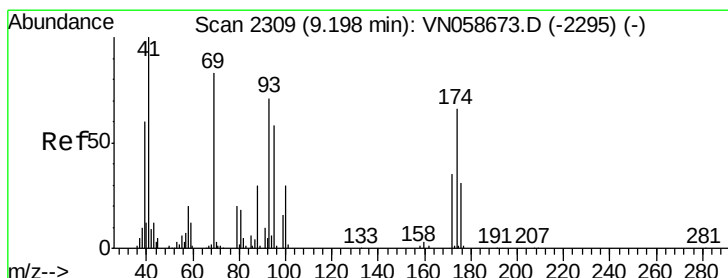
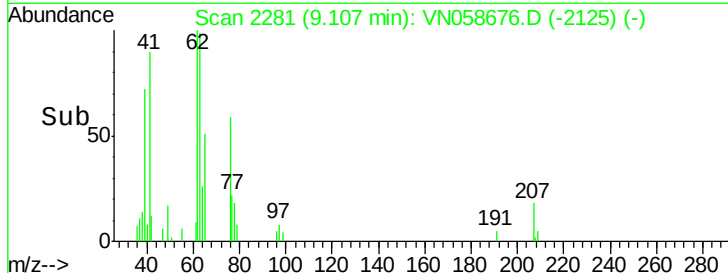
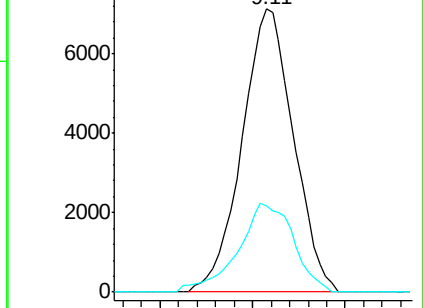
63 100

65 30.7 23.8 35.6



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 2.839 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

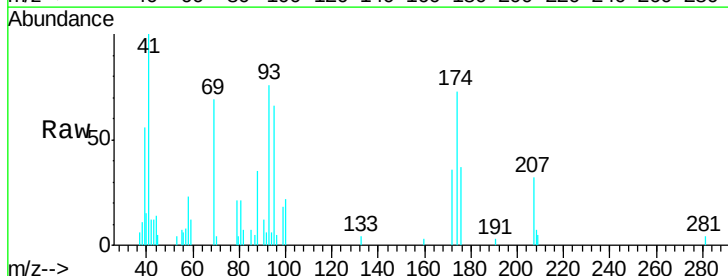
Tgt Ion: 93 Resp: 9014

Ion Ratio Lower Upper

93 100

95 80.8 0.0 167.6

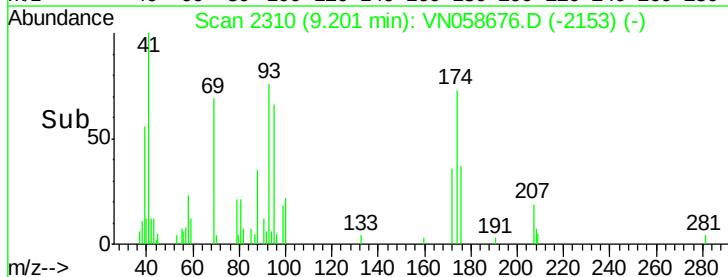
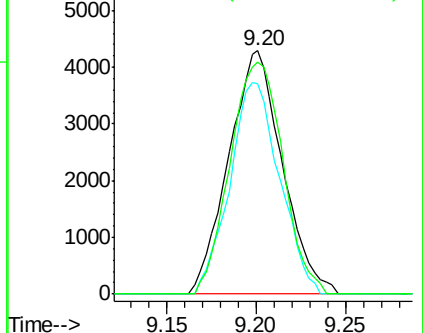
174 93.9 0.0 187.2

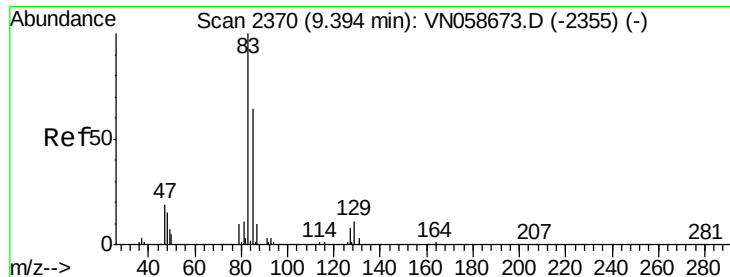


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 2.587 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

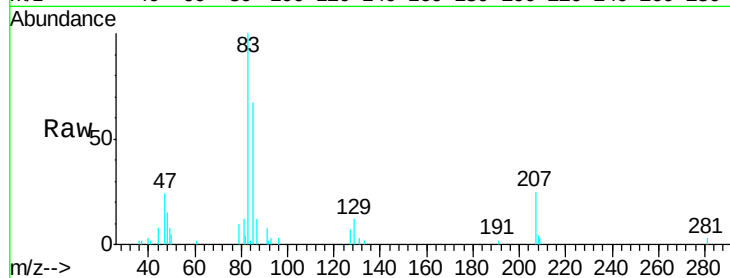
Tgt Ion: 83 Resp: 16778

Ion Ratio Lower Upper

83 100

85 67.5 51.0 76.4

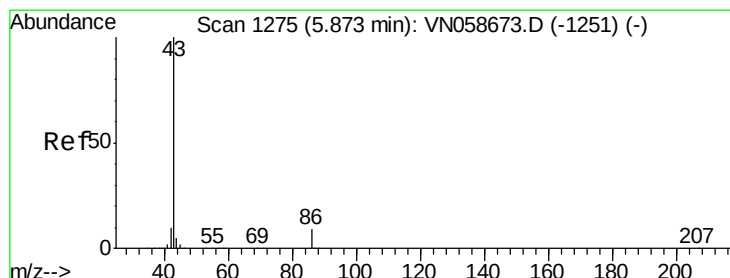
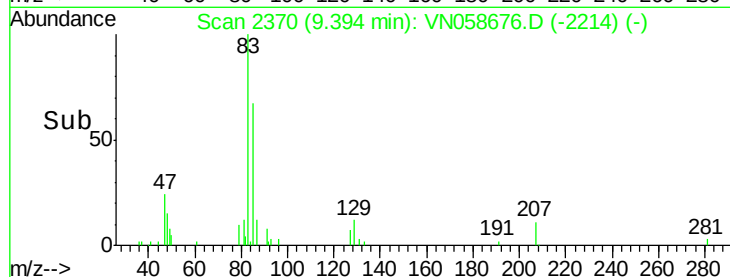
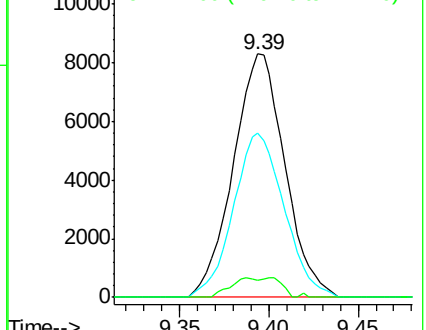
127 7.1 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

Ion 127.00 (126.70 to 127.70): VN0



#42

Vinyl Acetate

Concen: 12.988 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VN058676.D

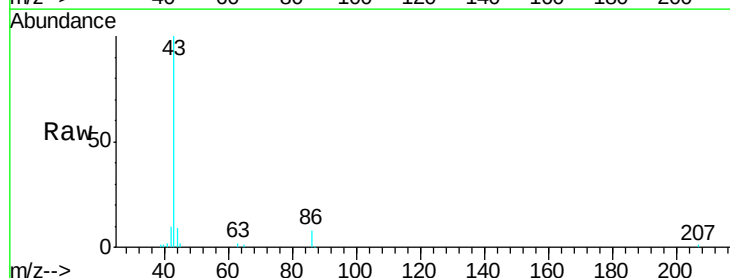
Acq: 10 Oct 2019 20:02

Tgt Ion: 43 Resp: 160688

Ion Ratio Lower Upper

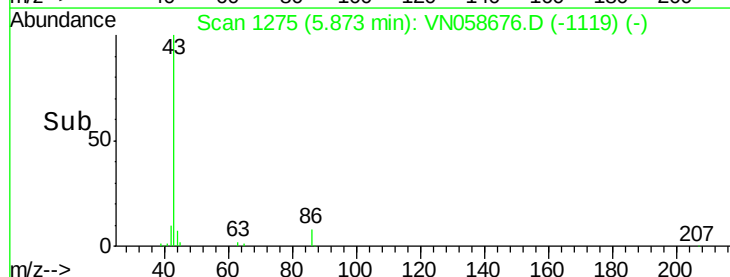
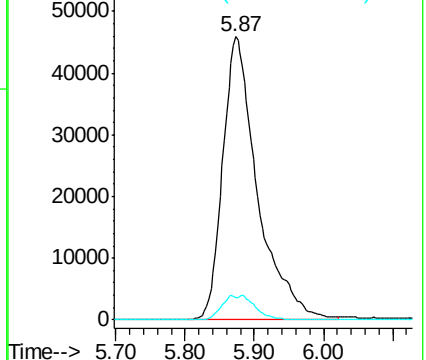
43 100

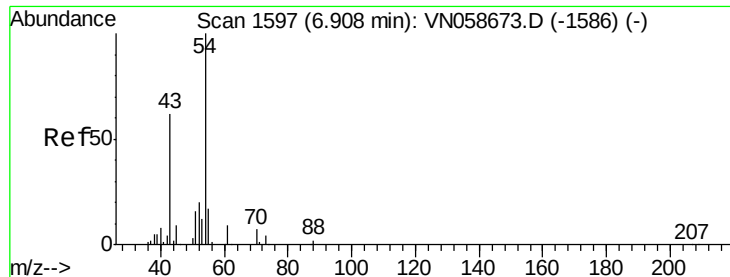
86 3.6 6.5 9.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0





#43

Ethyl Acetate

Concen: 6.347 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.09 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

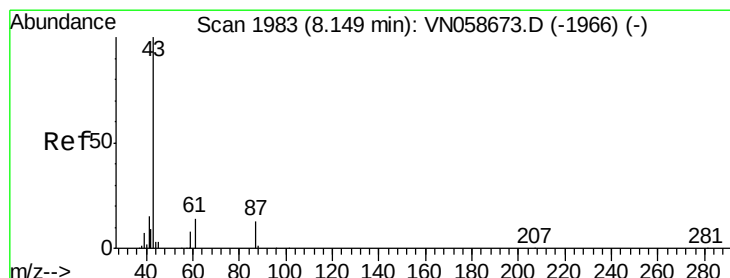
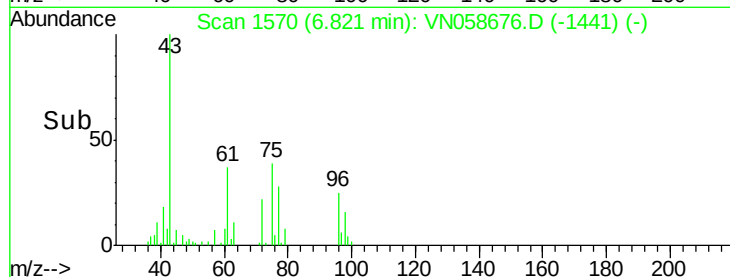
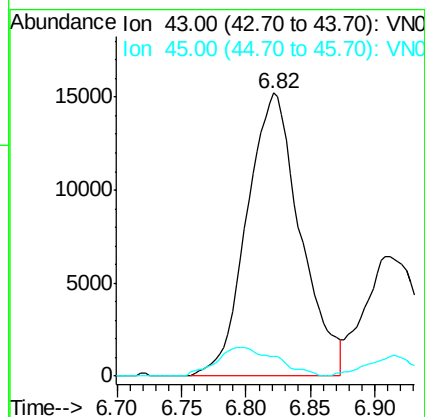
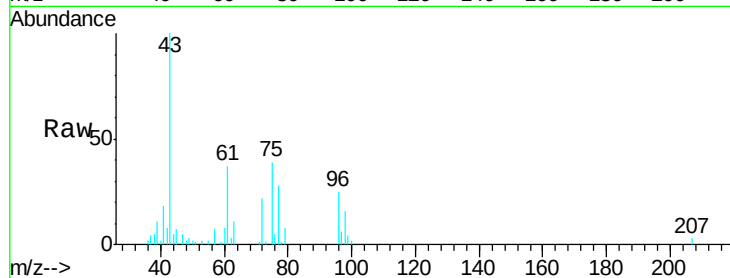
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 43 Resp: 44004

Ion Ratio Lower Upper

43 100

45 11.4 9.7 14.5



#44

Isopropyl Acetate

Concen: 2.590 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058676.D

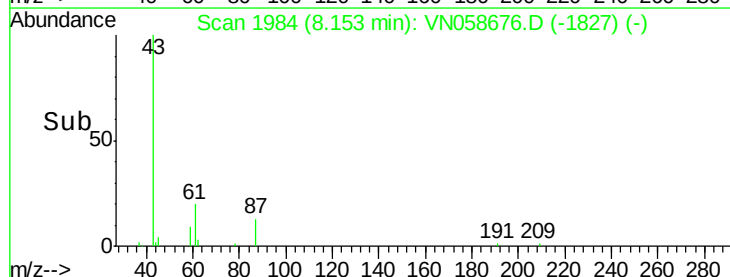
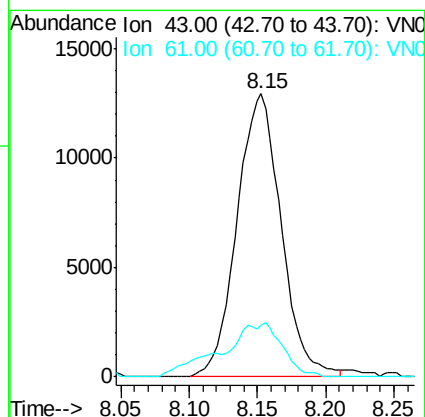
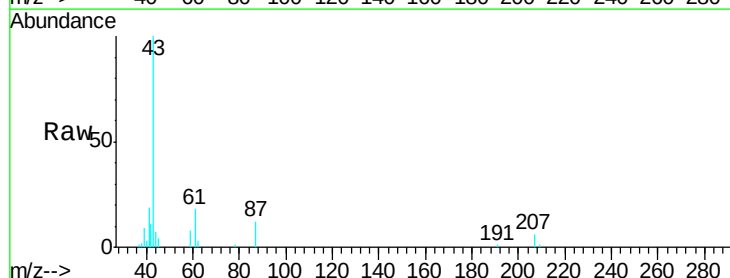
Acq: 10 Oct 2019 20:02

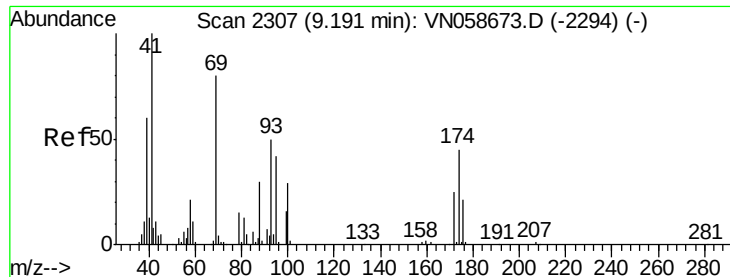
Tgt Ion: 43 Resp: 29092

Ion Ratio Lower Upper

43 100

61 3.9 19.9 29.9#

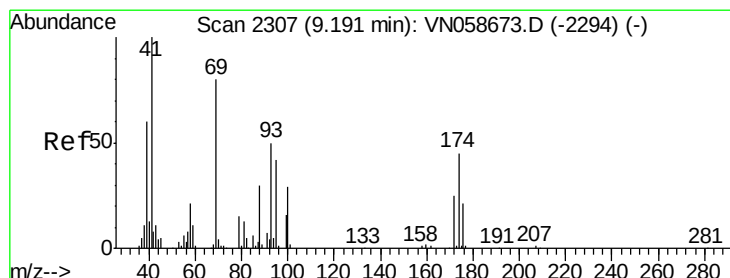
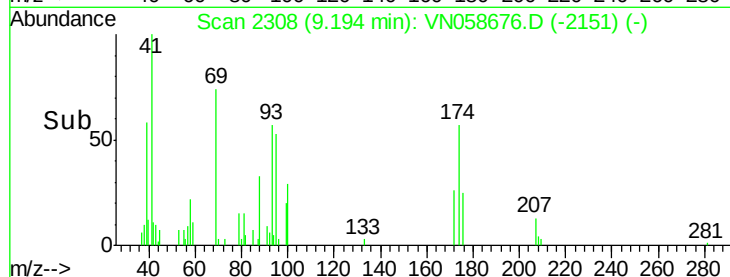
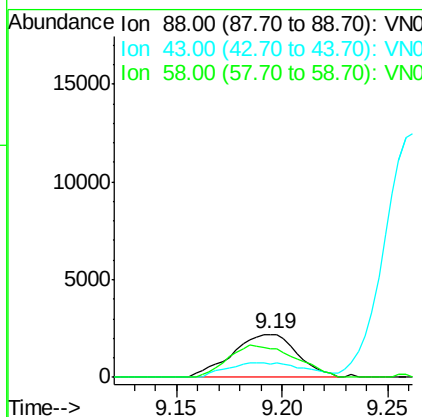
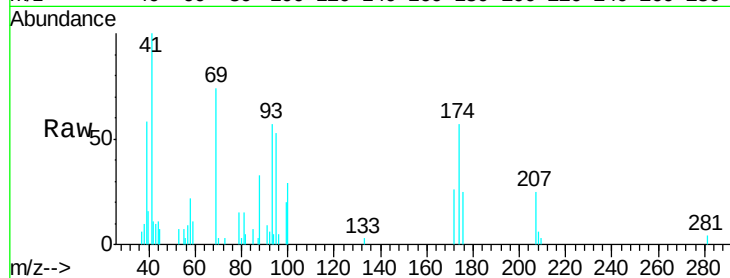




#45
 1,4-Dioxane
 Concen: 54.766 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

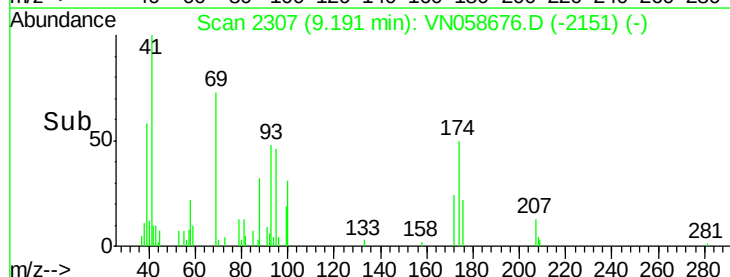
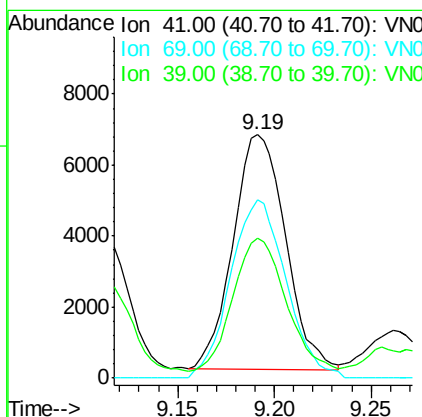
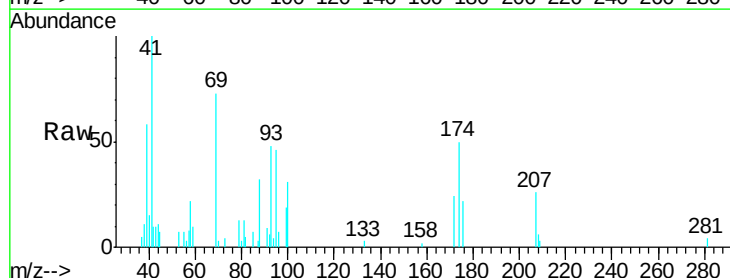
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

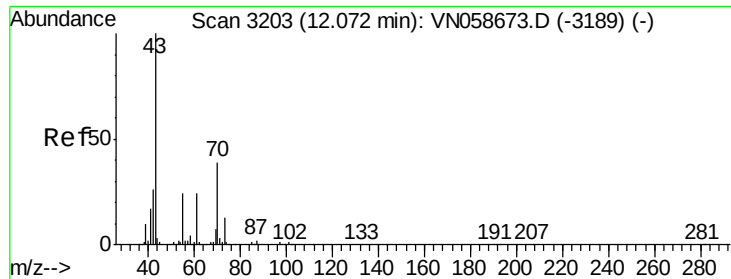
Tgt Ion: 88 Resp: 4723
 Ion Ratio Lower Upper
 88 100
 43 22.9 29.8 44.8#
 58 77.1 58.2 87.4



#46
 Methyl methacrylate
 Concen: 2.417 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion: 41 Resp: 12461
 Ion Ratio Lower Upper
 41 100
 69 76.3 40.2 120.5
 39 57.1 29.9 89.8





#47

n-amyI Acetate

Concen: 2.130 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

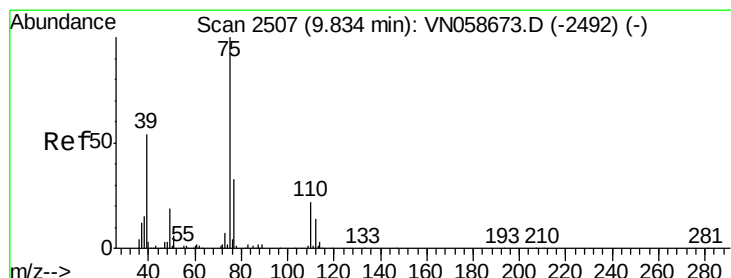
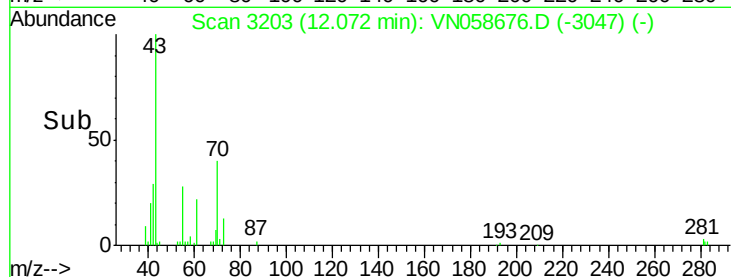
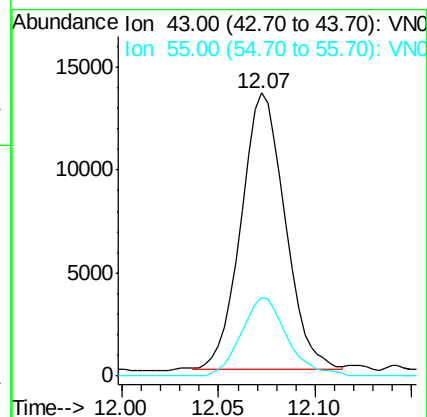
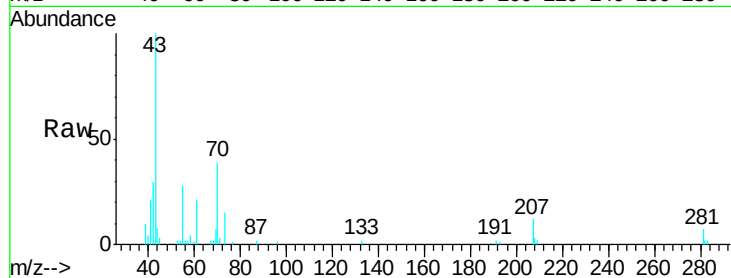
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 43 Resp: 21208

Ion Ratio Lower Upper

43 100

55 29.7 19.6 29.4#



#49

cis-1,3-Dichloropropene

Concen: 2.561 ug/l

RT: 9.83 min Scan# 2507

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

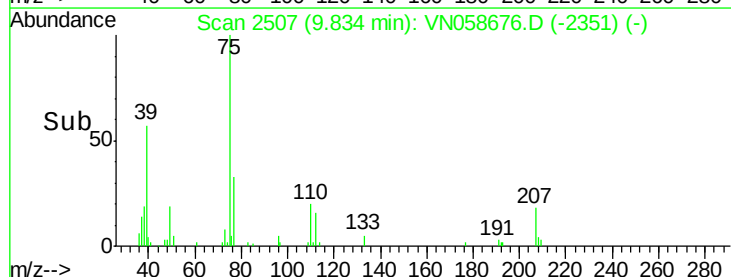
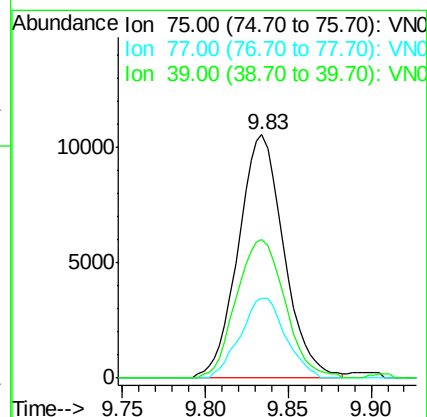
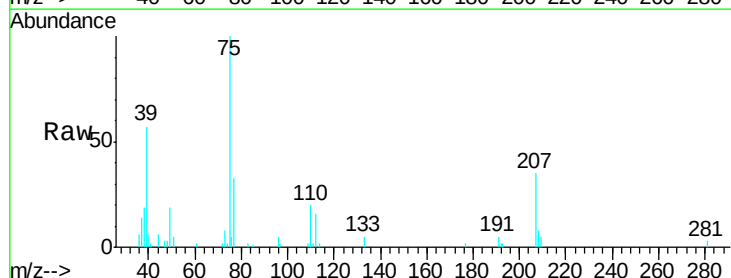
Tgt Ion: 75 Resp: 20233

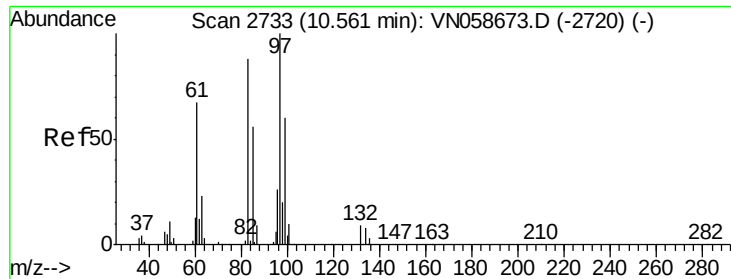
Ion Ratio Lower Upper

75 100

77 33.0 26.1 39.1

39 56.7 43.1 64.7

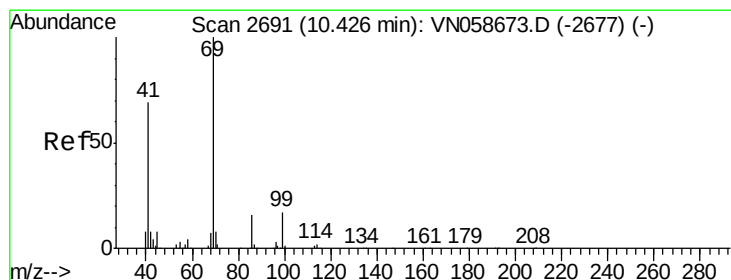
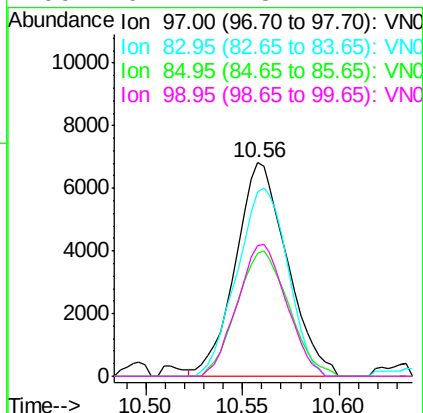
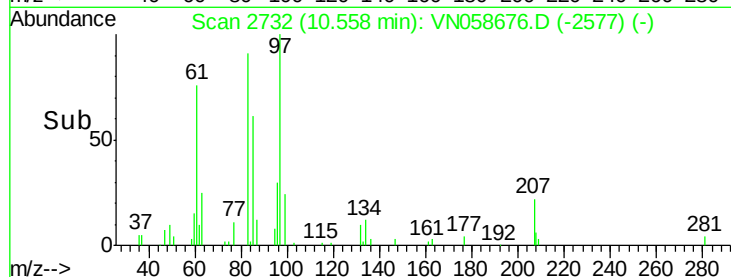
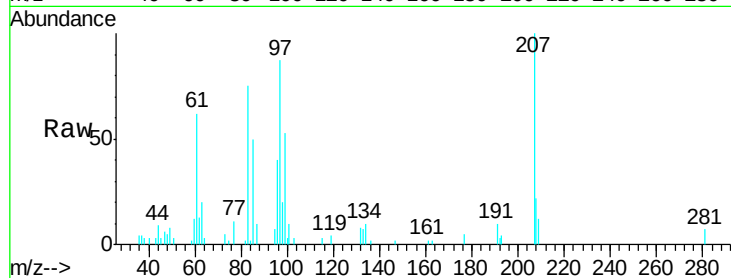




#50
 1,1,2-Trichloroethane
 Concen: 2.801 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

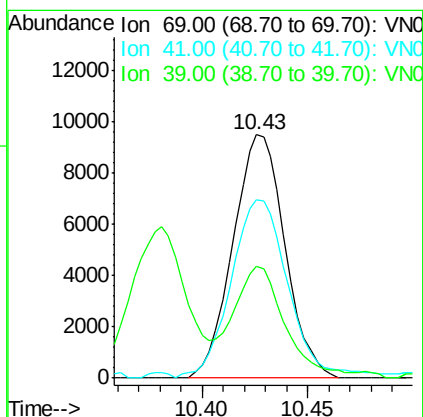
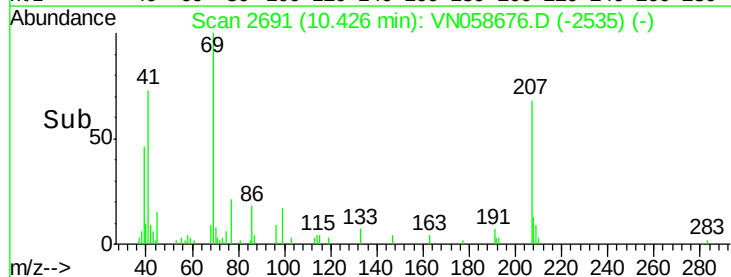
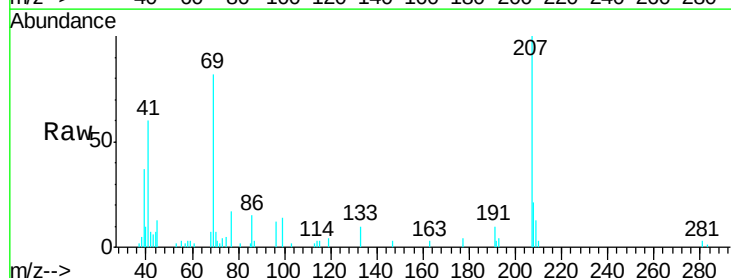
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

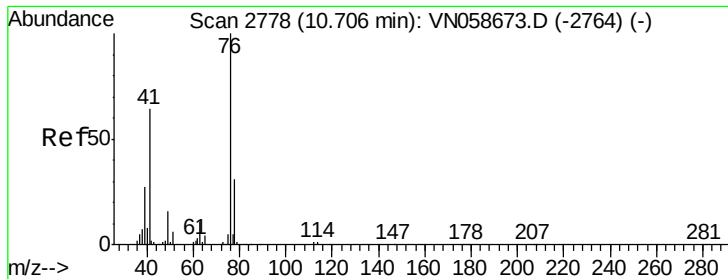
Tgt Ion: 97 Resp: 12694
 Ion Ratio Lower Upper
 97 100
 83 86.1 70.7 106.1
 85 57.3 45.1 67.7
 99 61.2 48.2 72.4



#51
 Ethyl methacrylate
 Concen: 2.241 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion: 69 Resp: 16245
 Ion Ratio Lower Upper
 69 100
 41 71.4 34.7 104.1
 39 42.5 20.3 60.8





#52

1,3-Dichloropropane

Concen: 2.612 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

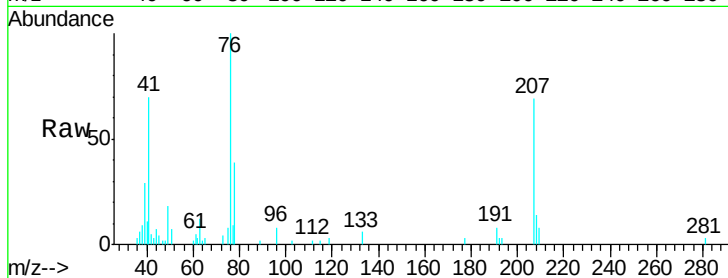
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 76 Resp: 21087

Ion Ratio Lower Upper

76 100

78 35.1 0.0 63.2



Abundance Ion 76.00 (75.70 to 76.70): VN058673.D (-2764) (-)

Ion 78.00 (77.70 to 78.70): VN058673.D (-2764) (-)

12000

10000

8000

6000

4000

2000

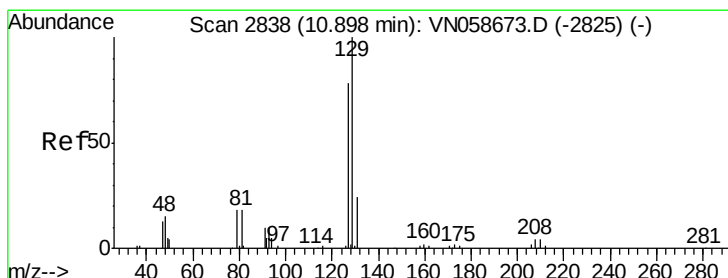
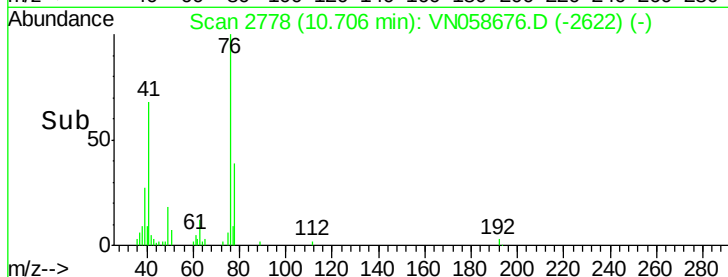
0

10.65

10.70

10.75

Time-->



#53

Dibromochloromethane

Concen: 2.410 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. 0.00 min

Lab File: VN058676.D

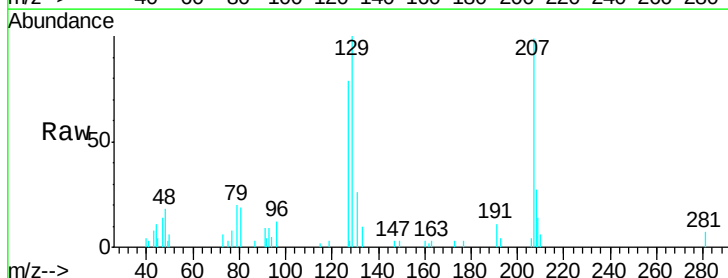
Acq: 10 Oct 2019 20:02

Tgt Ion: 129 Resp: 11721

Ion Ratio Lower Upper

129 100

127 80.3 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): VN058673.D (-2825) (-)

Ion 127.00 (126.70 to 127.70): VN058673.D (-2825) (-)

6000

4000

2000

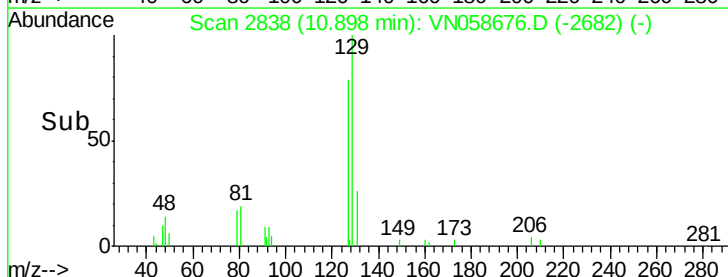
0

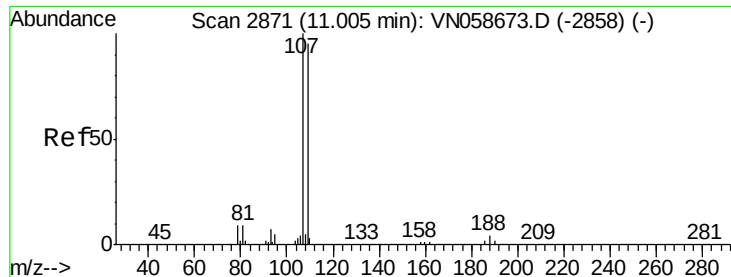
10.85

10.90

10.95

Time-->

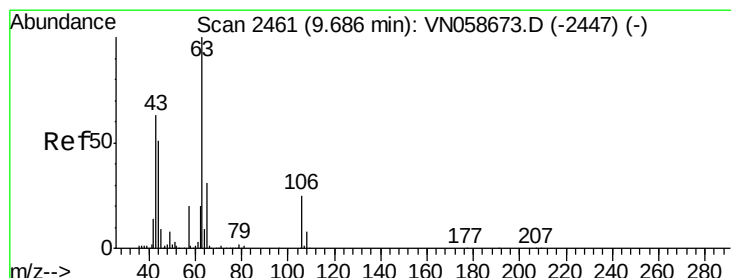
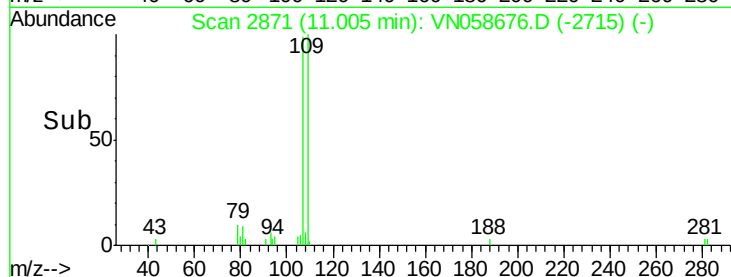
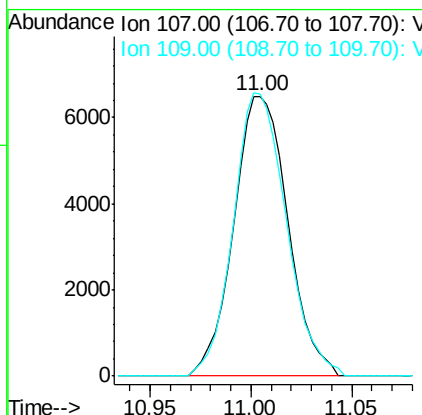
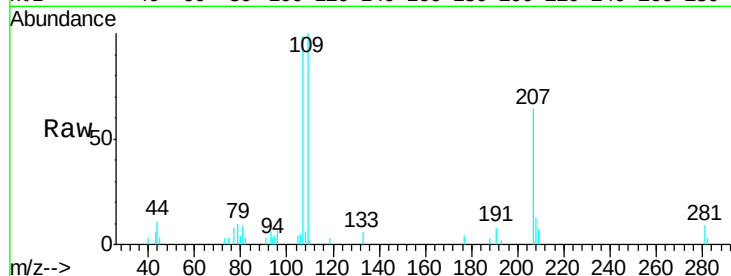




#54
 1,2-Dibromoethane
 Concen: 2.597 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

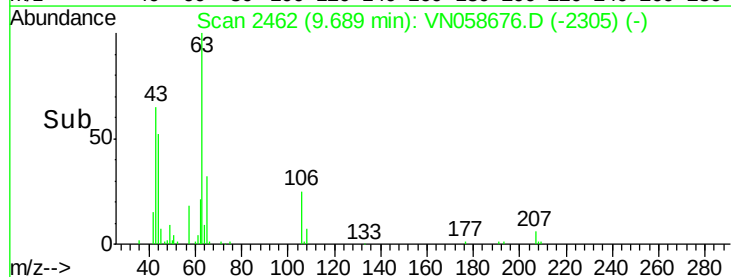
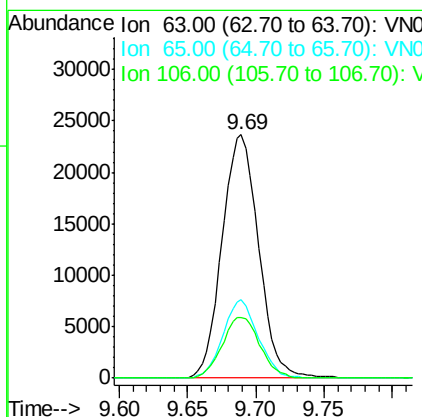
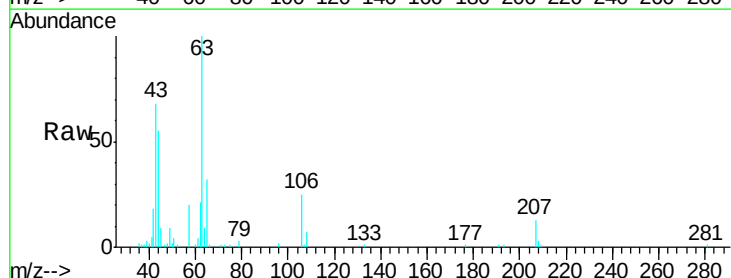
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

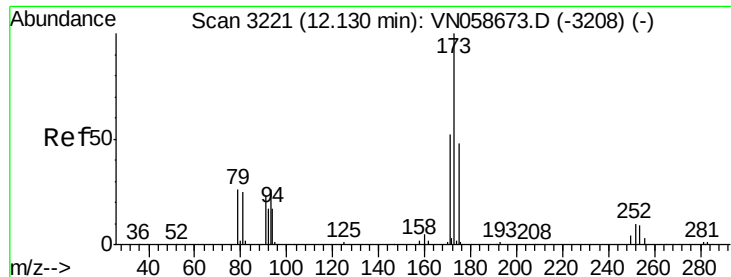
Tgt Ion: 107 Resp: 12199
 Ion Ratio Lower Upper
 107 100
 109 99.1 76.2 114.4



#55
 2-Chloroethyl vinyl ether
 Concen: 12.219 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion: 63 Resp: 44053
 Ion Ratio Lower Upper
 63 100
 65 30.8 25.3 37.9
 106 25.7 19.8 29.6

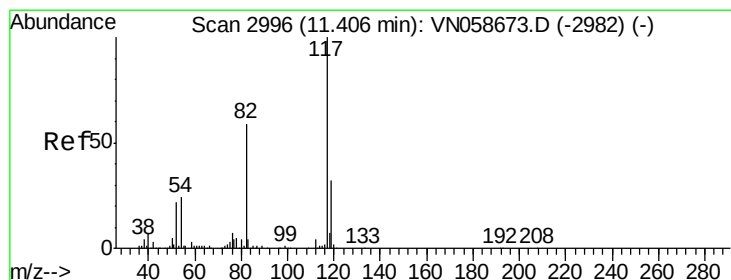
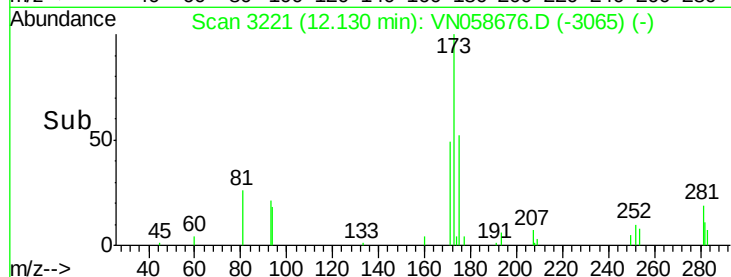
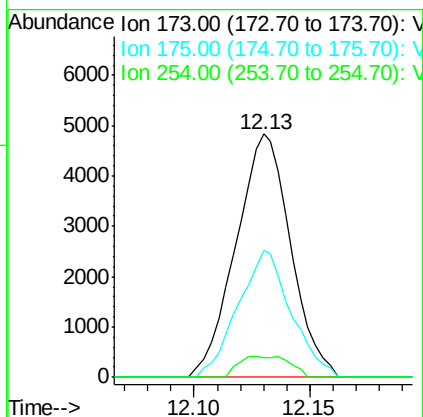
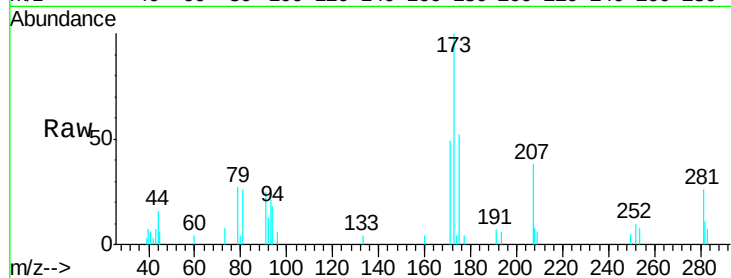




#56
Bromoform
Concen: 2.337 ug/l
RT: 12.13 min Scan# 3221
Delta R.T. -0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

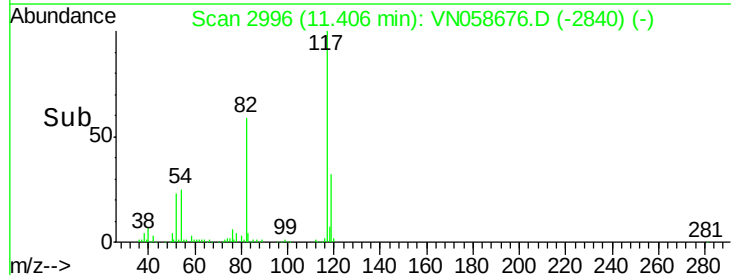
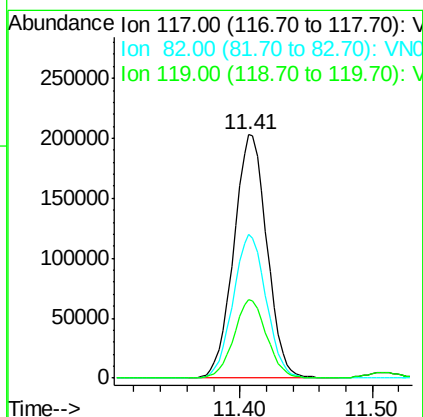
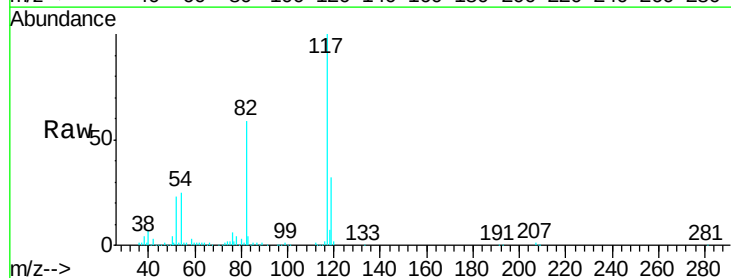
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

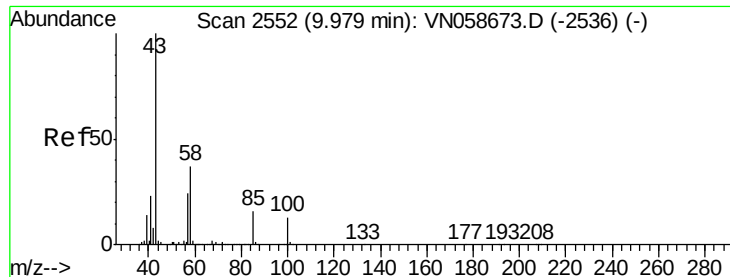
Tgt Ion:173 Resp: 7918
Ion Ratio Lower Upper
173 100
175 50.8 38.7 58.1
254 4.2 7.4 11.2#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion:117 Resp: 351949
Ion Ratio Lower Upper
117 100
82 59.0 46.9 70.3
119 31.8 25.8 38.6

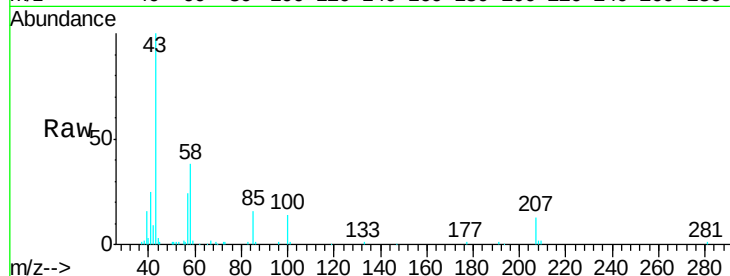




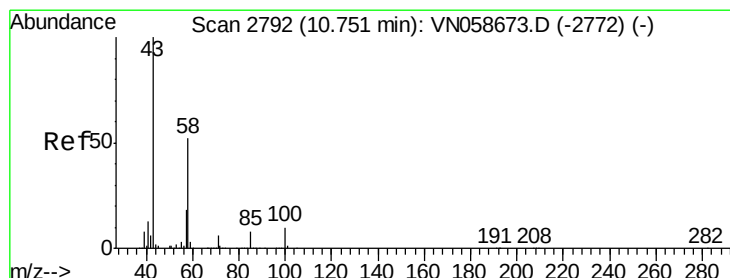
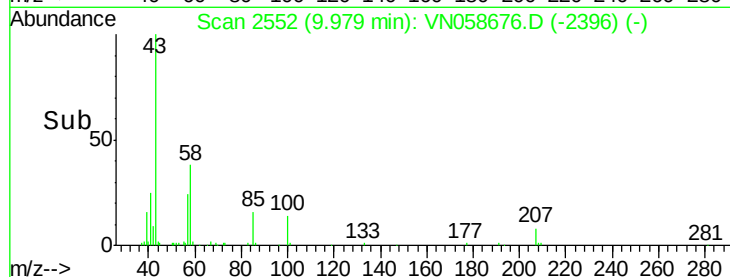
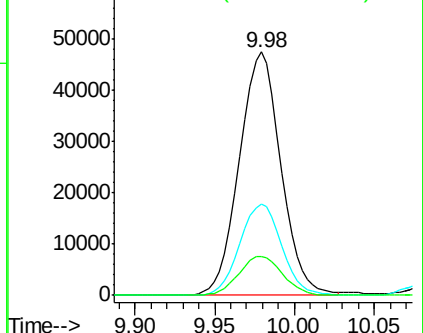
#58
 4-Methyl-2-Pentanone
 Concen: 13.137 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 43 Resp: 84344
 Ion Ratio Lower Upper
 43 100
 58 37.8 30.1 45.1
 85 16.9 13.2 19.8

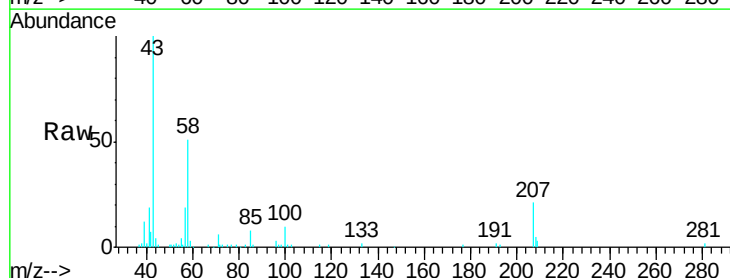


Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO
 Ion 85.00 (84.70 to 85.70): VNO

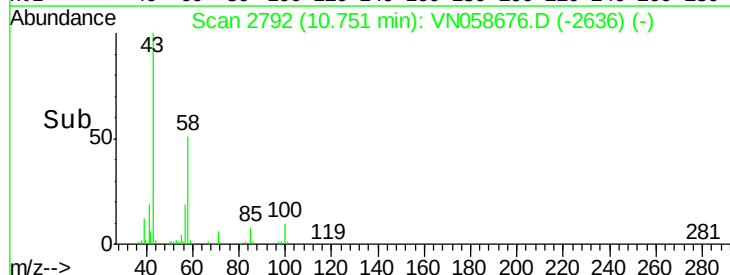
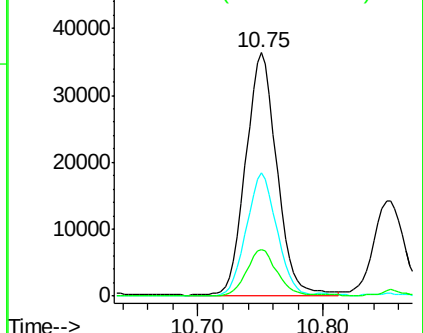


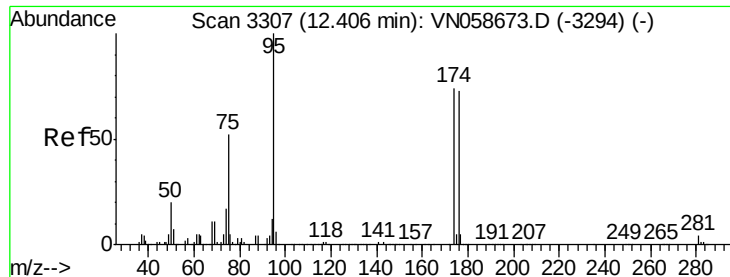
#59
 2-Hexanone
 Concen: 12.677 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. -0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion: 43 Resp: 63807
 Ion Ratio Lower Upper
 43 100
 58 49.1 41.4 62.0
 57 18.7 14.7 22.1



Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO
 Ion 57.00 (56.70 to 57.70): VNO

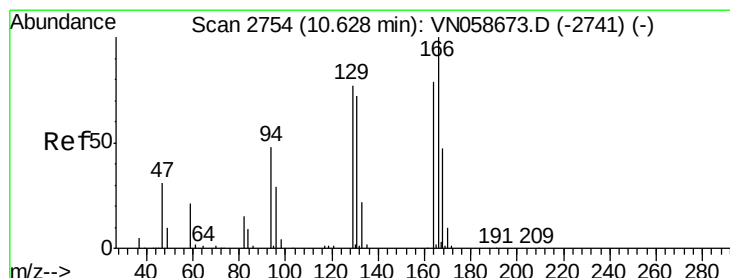
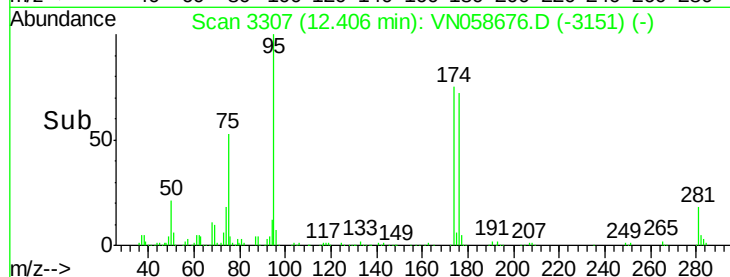
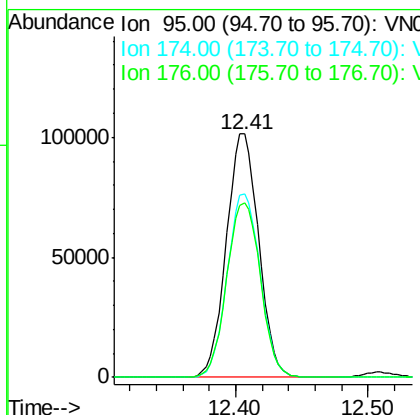
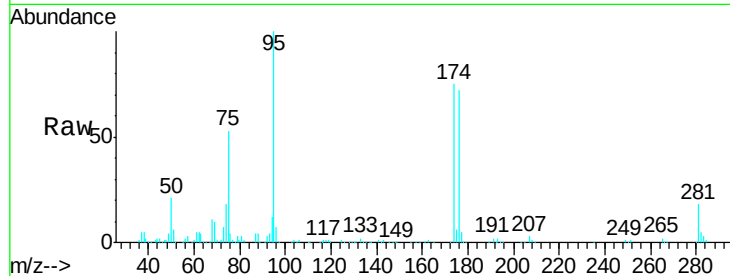




#60
4-Bromofluorobenzene
Concen: 27.921 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

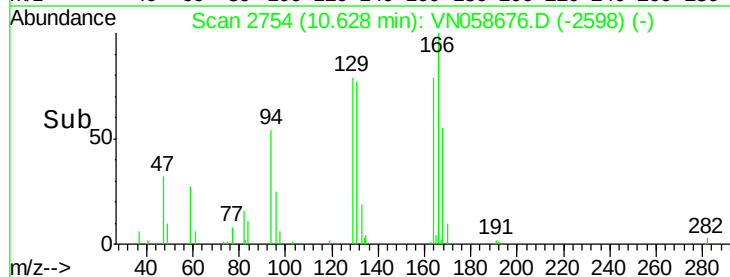
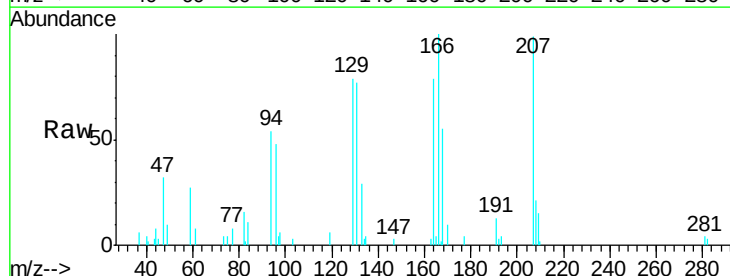
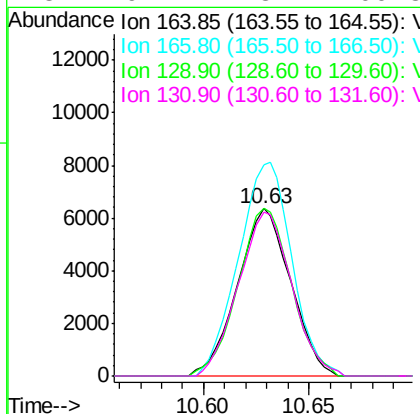
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

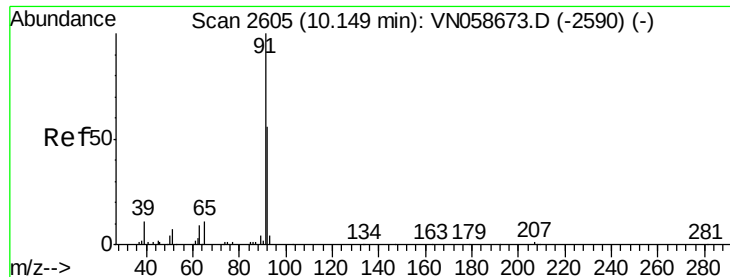
Tgt Ion: 95 Resp: 171897
Ion Ratio Lower Upper
95 100
174 76.8 59.9 89.9
176 74.7 58.3 87.5



#61
Tetrachloroethene
Concen: 2.928 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion: 164 Resp: 11137
Ion Ratio Lower Upper
164 100
166 126.8 101.4 152.2
129 100.7 78.1 117.1
131 97.7 73.2 109.8





#62

Toluene

Concen: 2.825 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

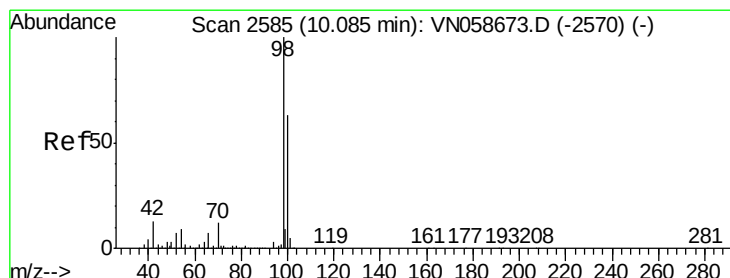
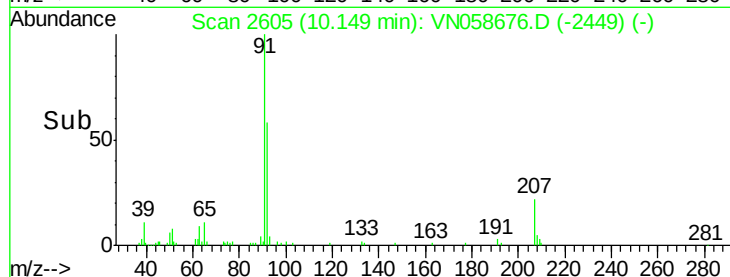
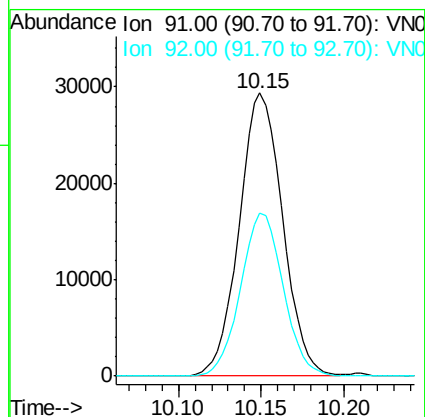
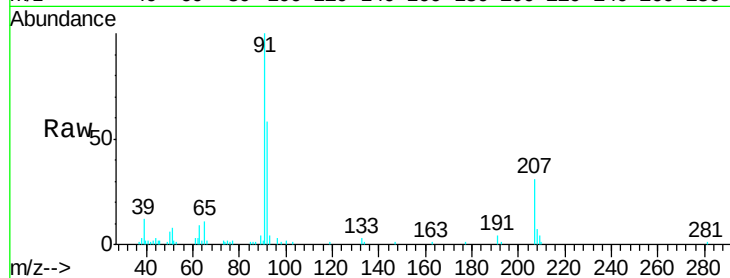
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 91 Resp: 53487

Ion Ratio Lower Upper

91 100

92 56.5 45.4 68.2



#63

Toluene-d8

Concen: 30.059 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058676.D

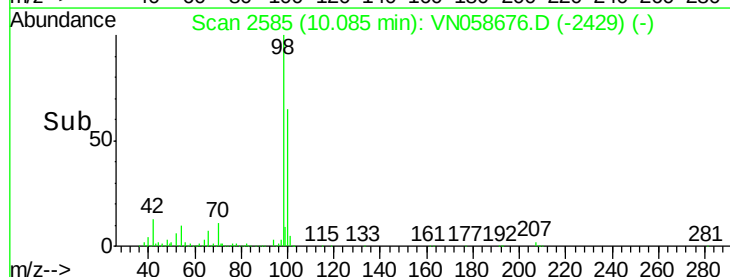
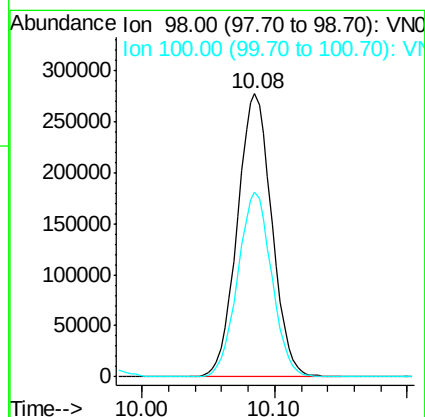
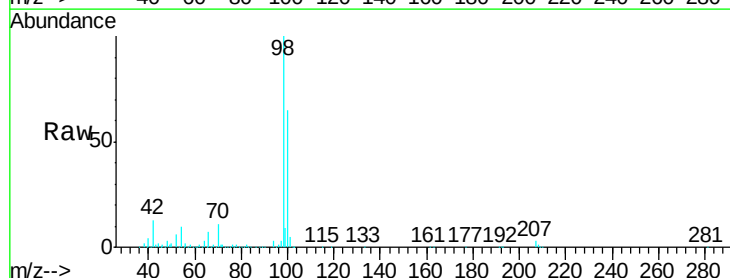
Acq: 10 Oct 2019 20:02

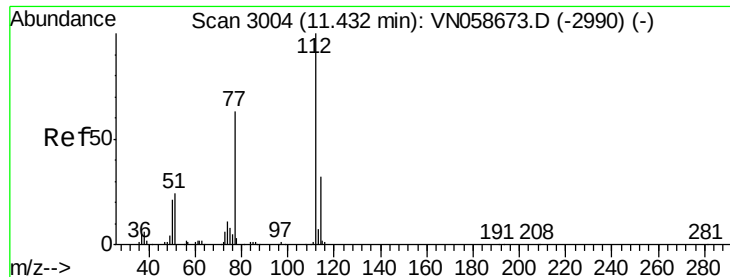
Tgt Ion: 98 Resp: 499517

Ion Ratio Lower Upper

98 100

100 64.4 50.6 75.8

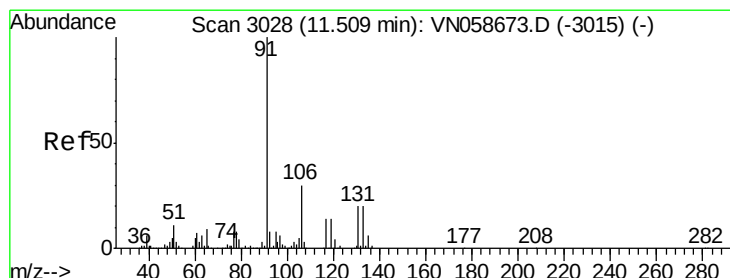
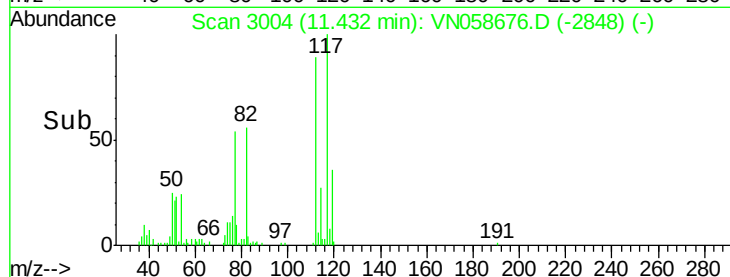
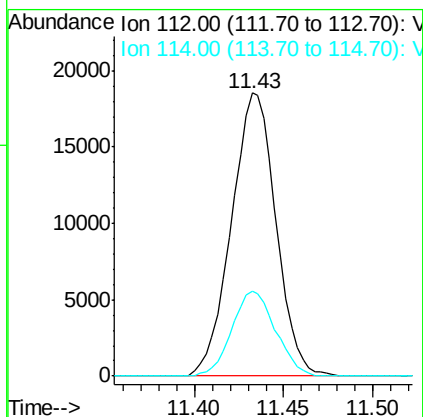
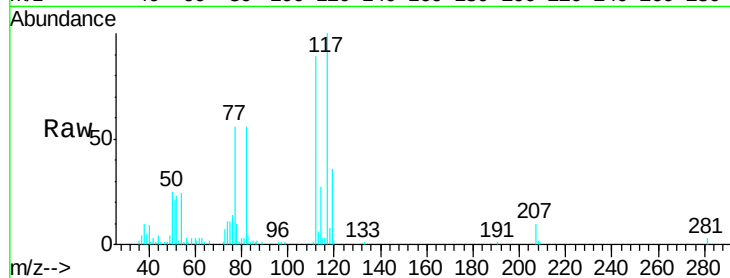




#64
Chlorobenzene
Concen: 2.789 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

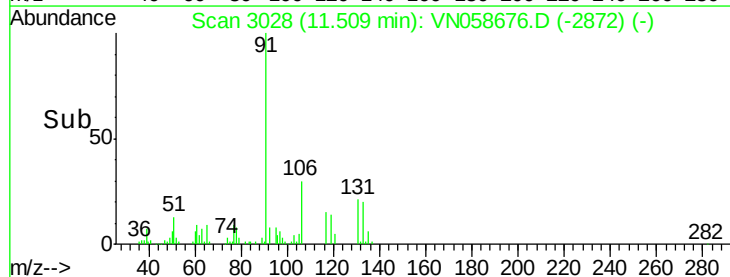
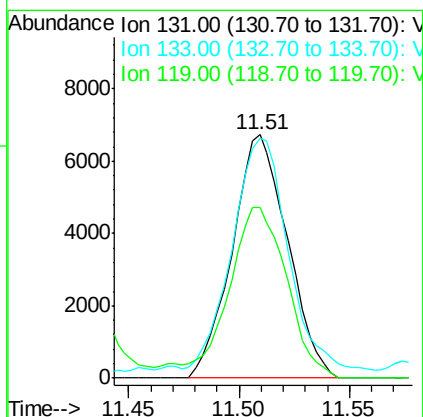
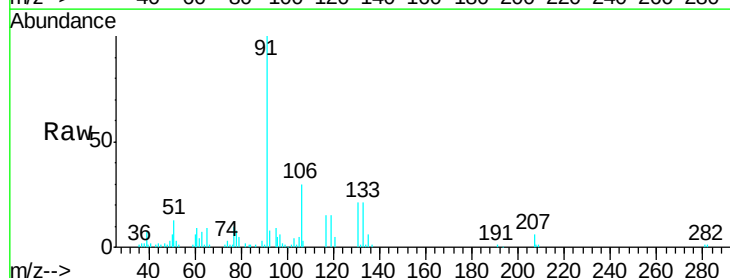
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

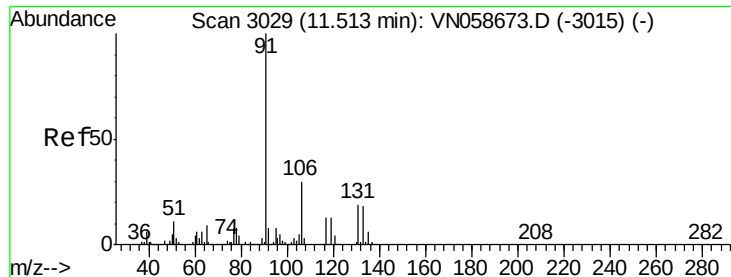
Tgt Ion:112 Resp: 32285
Ion Ratio Lower Upper
112 100
114 29.9 25.7 38.5



#65
1,1,1,2-Tetrachloroethane
Concen: 2.693 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion:131 Resp: 11688
Ion Ratio Lower Upper
131 100
133 95.8 0.0 194.0
119 73.2 0.0 136.8

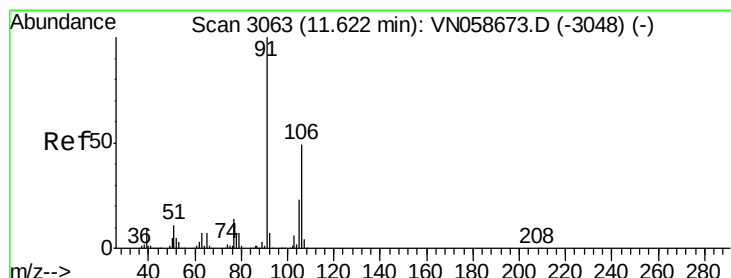
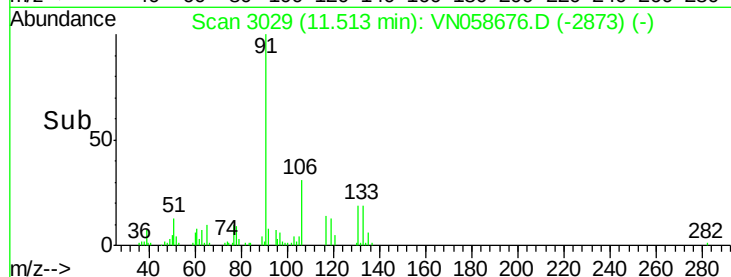
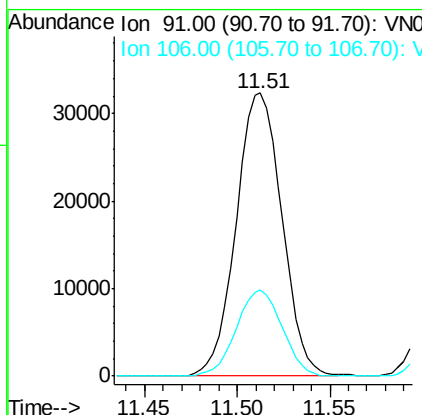
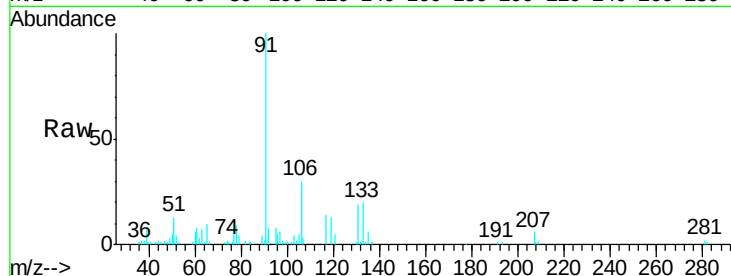




#66
Ethyl Benzene
Concen: 2.647 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

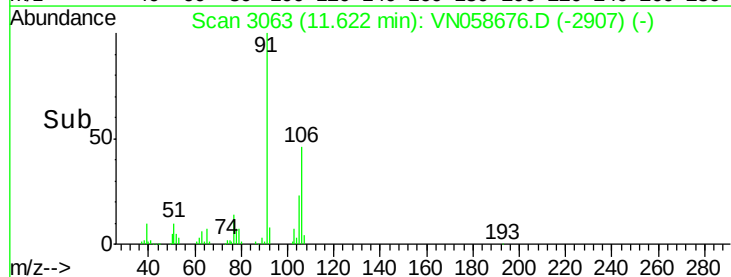
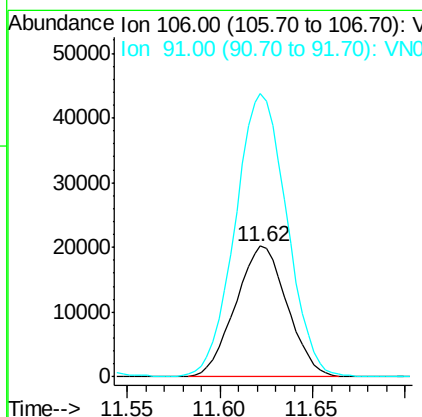
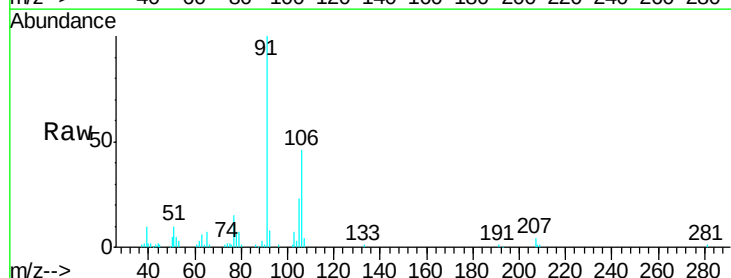
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

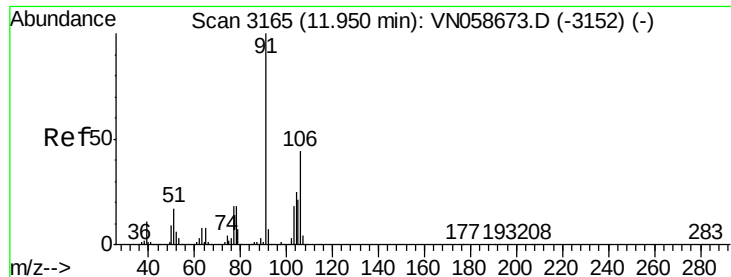
Tgt Ion: 91 Resp: 55496
Ion Ratio Lower Upper
91 100
106 30.5 24.2 36.4



#67
m/p-Xylenes
Concen: 5.003 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion: 106 Resp: 39184
Ion Ratio Lower Upper
106 100
91 215.8 165.6 248.4

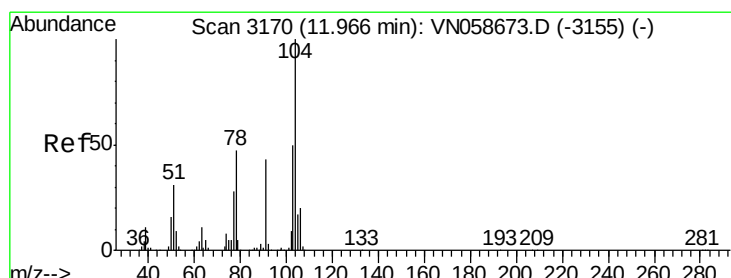
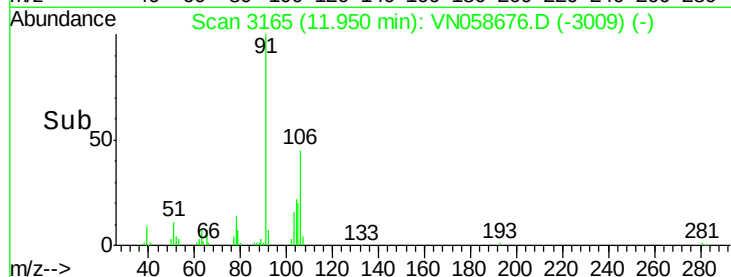
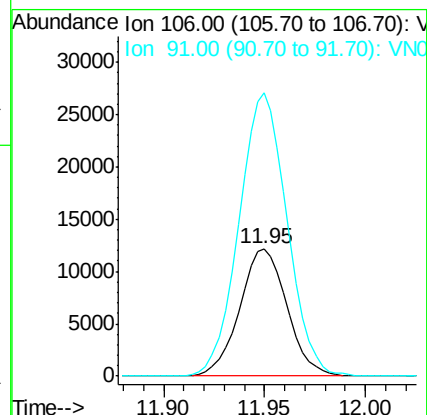
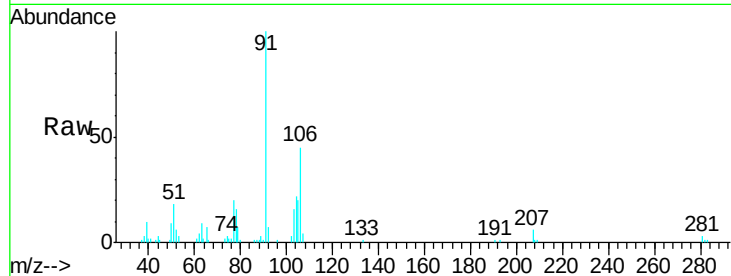




#68
o-Xylene
Concen: 2.643 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

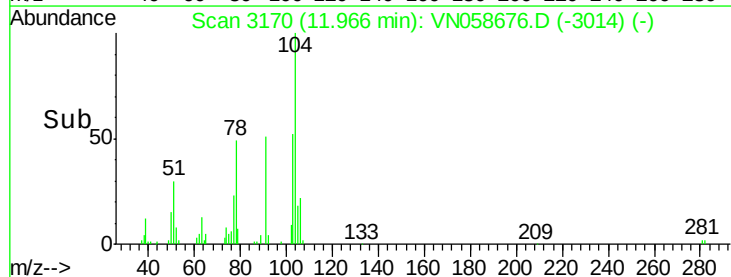
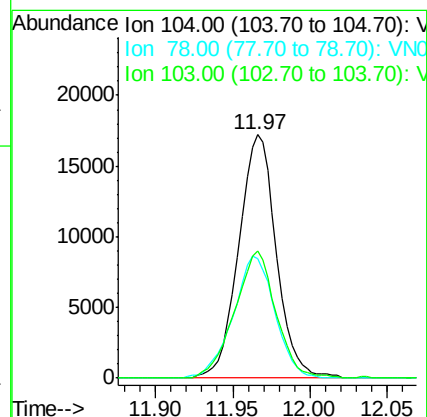
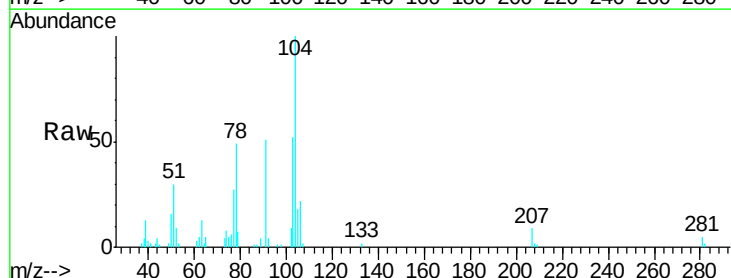
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

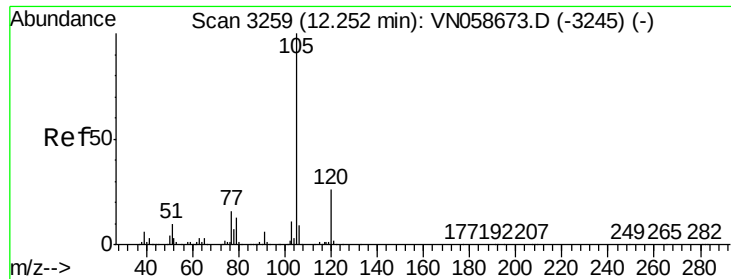
Tgt Ion:106 Resp: 20066
Ion Ratio Lower Upper
106 100
91 224.7 109.8 329.4



#69
Styrene
Concen: 2.316 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion:104 Resp: 29053
Ion Ratio Lower Upper
104 100
78 55.7 42.4 63.6
103 57.3 44.6 66.8





#70

Isopropylbenzene

Concen: 2.596 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

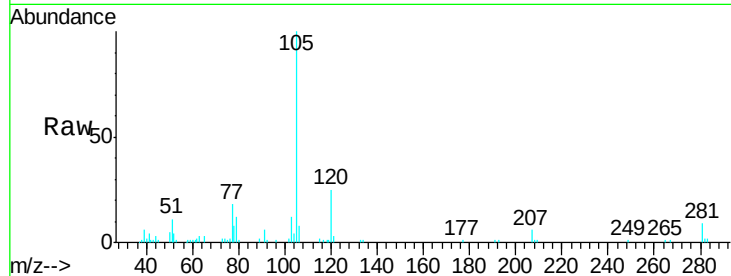
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 105 Resp: 53221

Ion Ratio Lower Upper

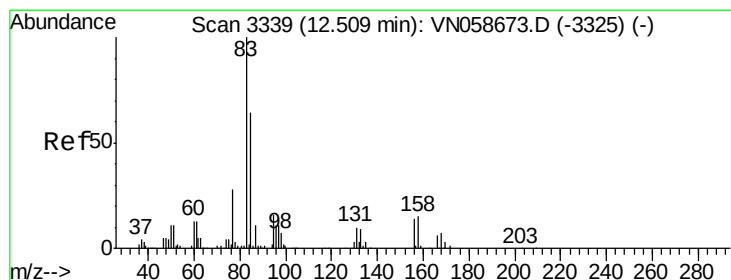
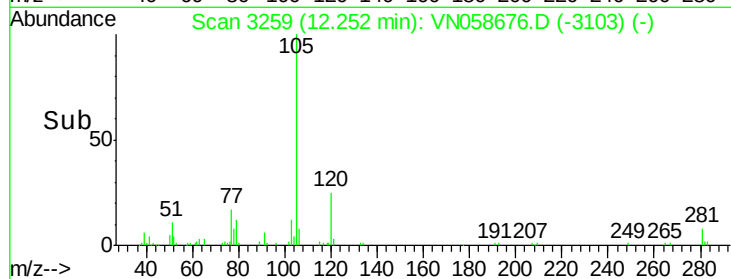
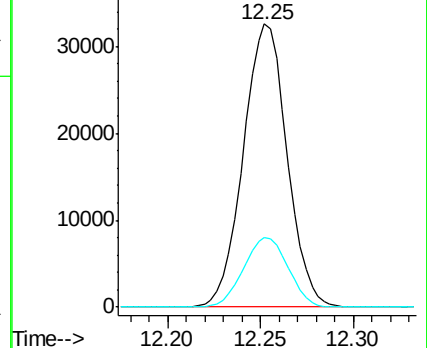
105 100

120 25.0 18.4 34.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#71

1,1,2,2-Tetrachloroethane

Concen: 2.578 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

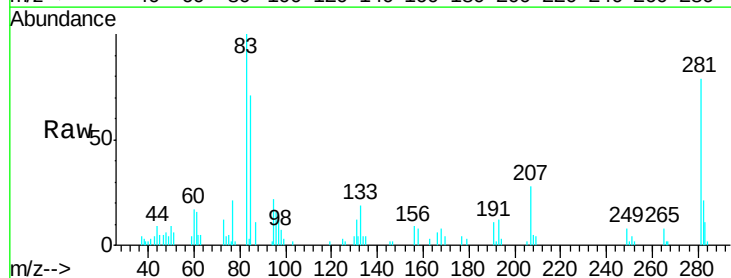
Tgt Ion: 83 Resp: 17787

Ion Ratio Lower Upper

83 100

131 11.2 4.9 14.7

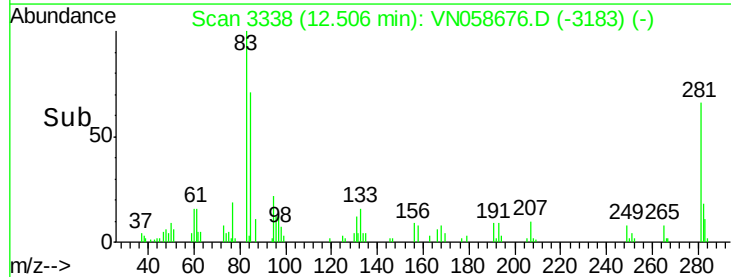
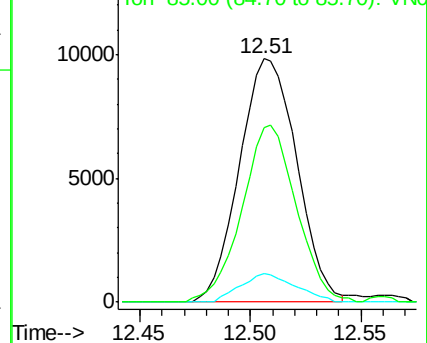
85 68.8 31.6 94.7

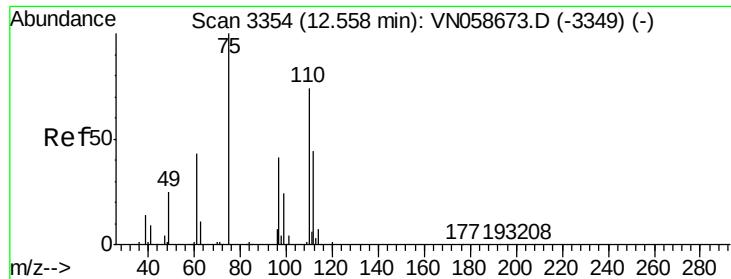


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VN0





#72

1,2,3-Trichloropropane

Concen: 4.032 ug/l

RT: 12.56 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

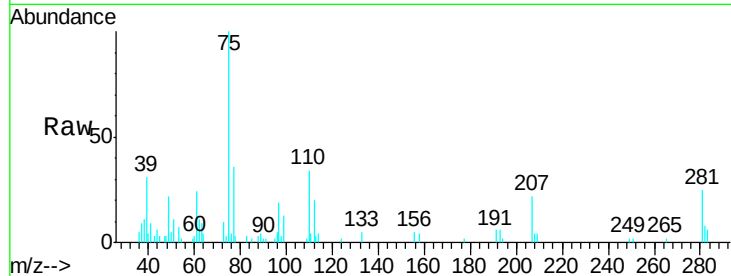
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 75 Resp: 25215

Ion Ratio Lower Upper

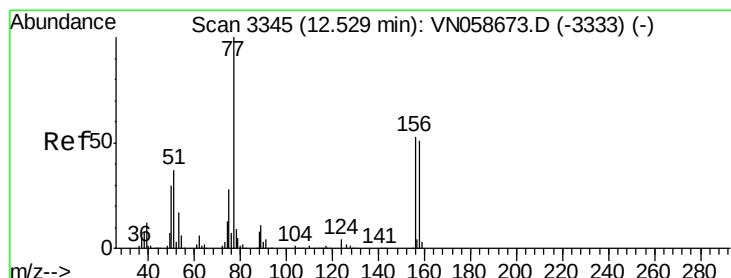
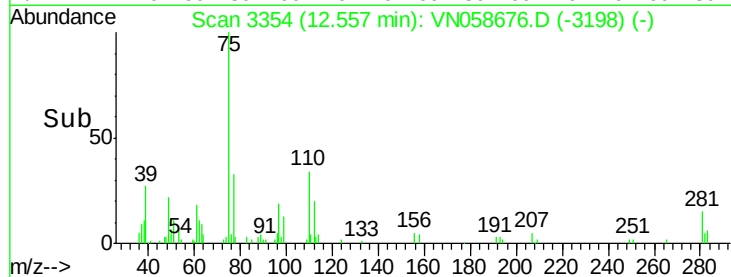
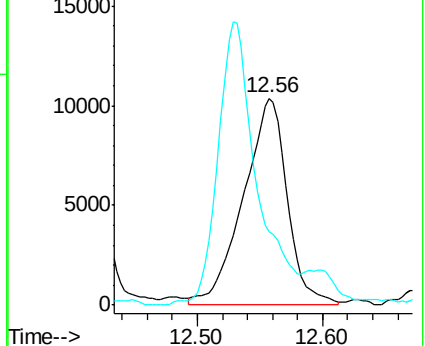
75 100

77 116.9 0.0 359.4



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#73

Bromobenzene

Concen: 2.695 ug/l

RT: 12.53 min Scan# 3346

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

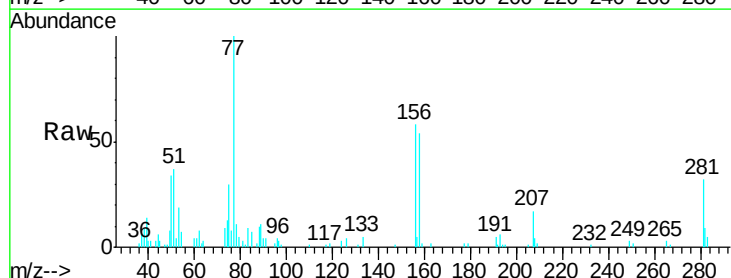
Tgt Ion: 156 Resp: 13416

Ion Ratio Lower Upper

156 100

77 219.8 0.0 456.0

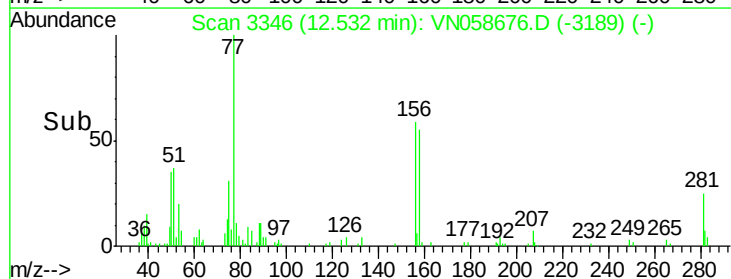
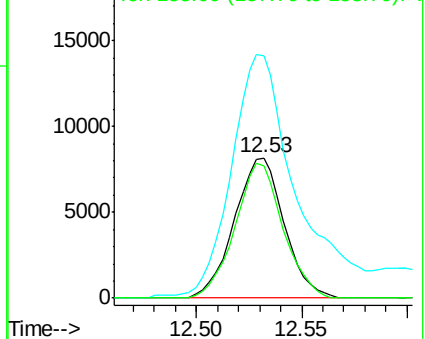
158 92.5 0.0 195.4

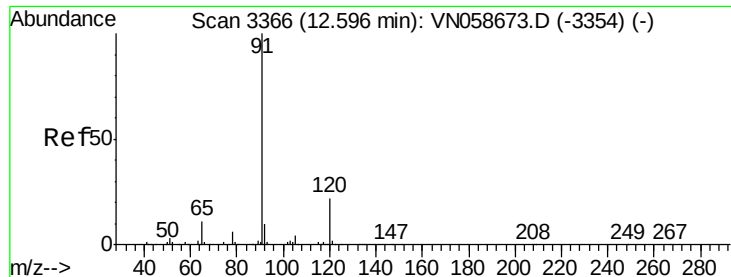


Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V





#74

n-propylbenzene

Concen: 2.553 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

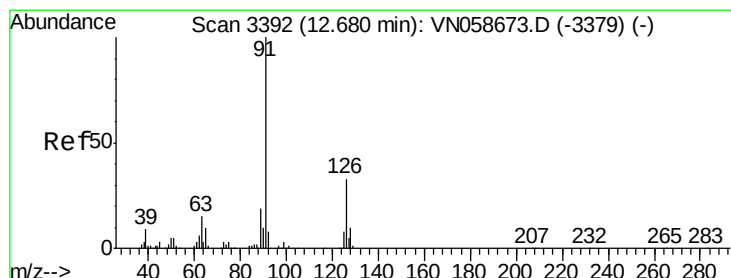
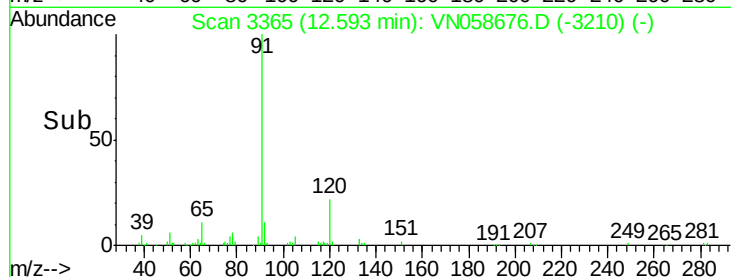
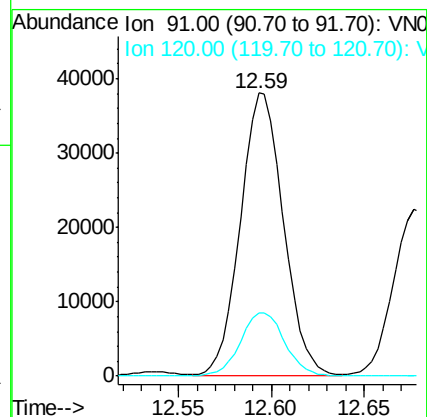
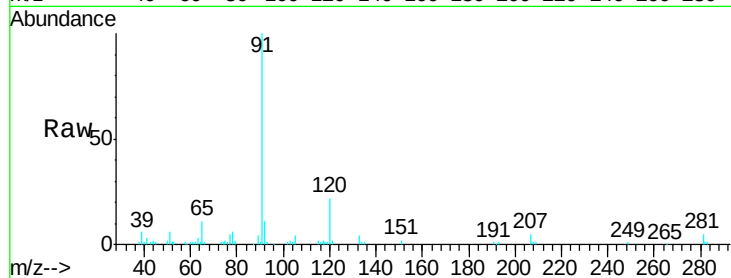
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 91 Resp: 61266

Ion Ratio Lower Upper

91 100

120 23.0 0.0 43.6



#75

2-Chlorotoluene

Concen: 2.655 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN058676.D

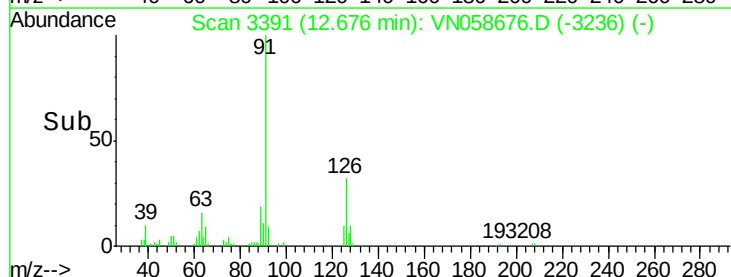
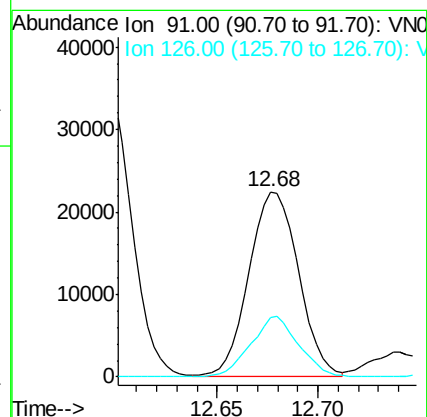
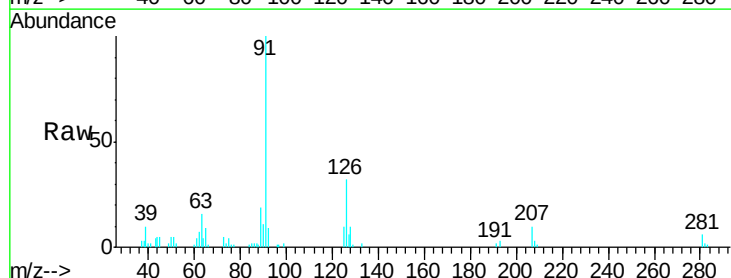
Acq: 10 Oct 2019 20:02

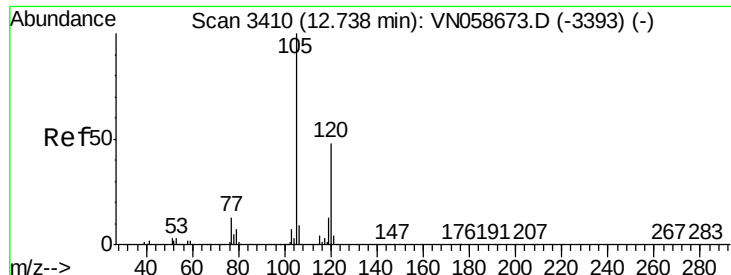
Tgt Ion: 91 Resp: 38323

Ion Ratio Lower Upper

91 100

126 31.7 0.0 65.4





#76

1,3,5-Trimethylbenzene

Concen: 2.489 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

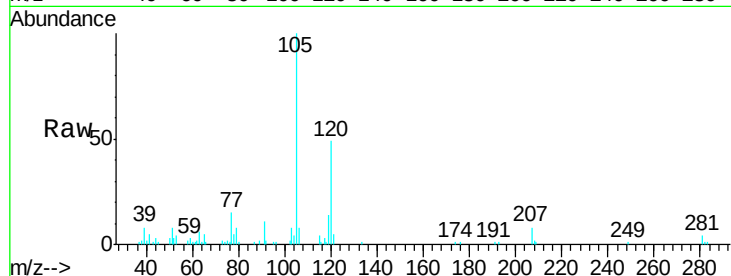
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 105 Resp: 43707

Ion Ratio Lower Upper

105 100

120 46.5 0.0 94.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.74

25000

20000

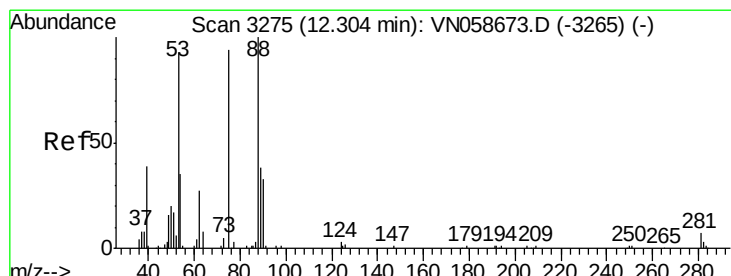
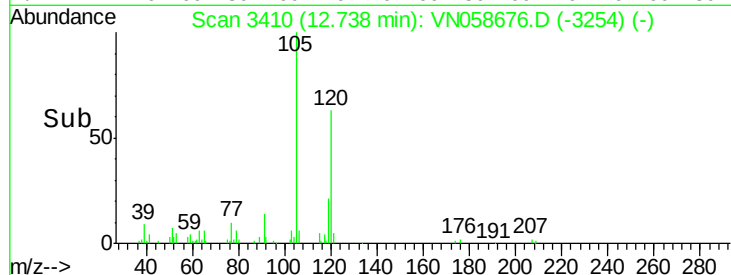
15000

10000

5000

0

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 2.063 ug/l

RT: 12.31 min Scan# 3276

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

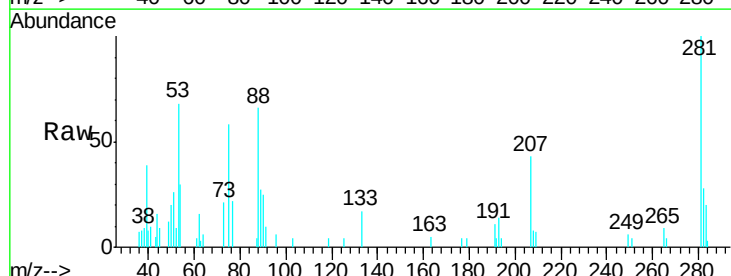
Tgt Ion: 75 Resp: 4915

Ion Ratio Lower Upper

75 100

53 128.4 50.0 150.0

89 51.7 20.7 62.1



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 53.00 (52.70 to 53.70): V

Ion 89.00 (88.70 to 89.70): V

4000

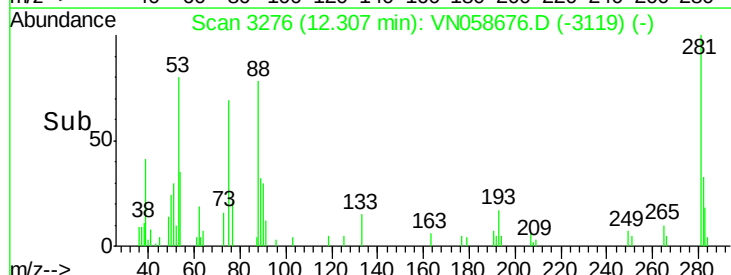
3000

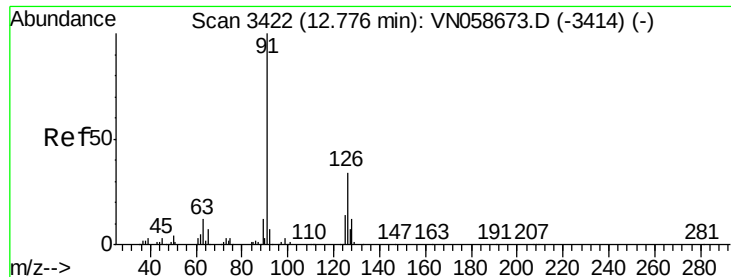
2000

1000

0

Time-->





#78

4-Chlorotoluene

Concen: 2.480 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

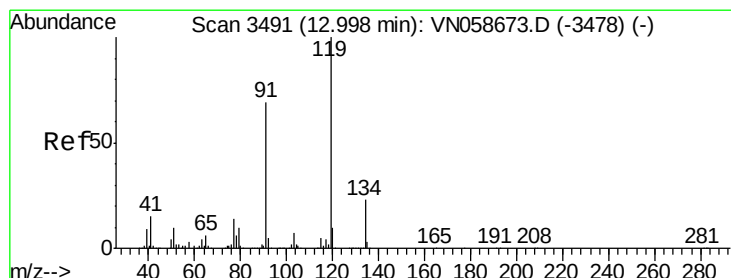
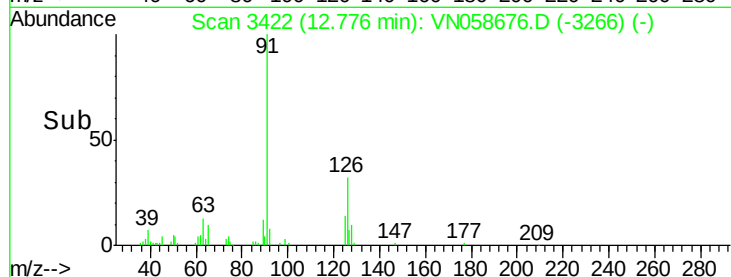
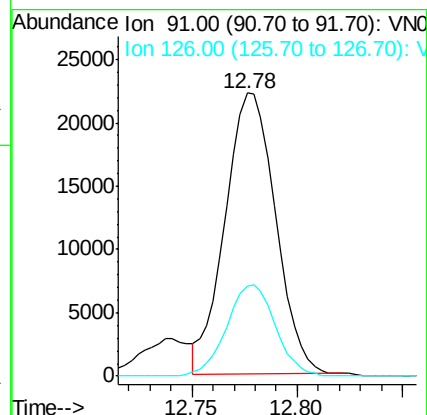
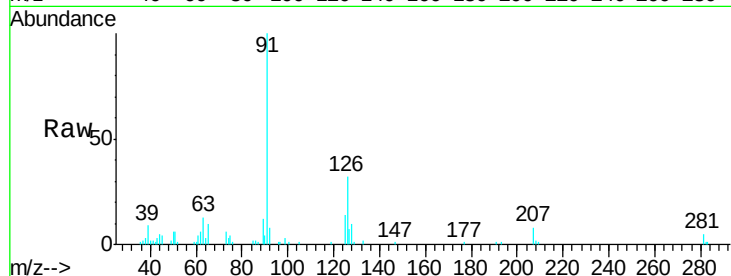
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 91 Resp: 36905

Ion Ratio Lower Upper

91 100

126 31.4 0.0 63.4



#79

tert-butylbenzene

Concen: 2.499 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

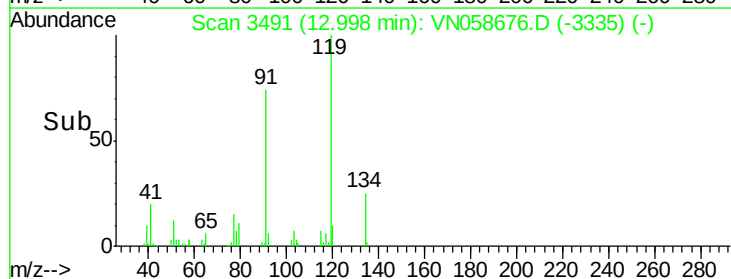
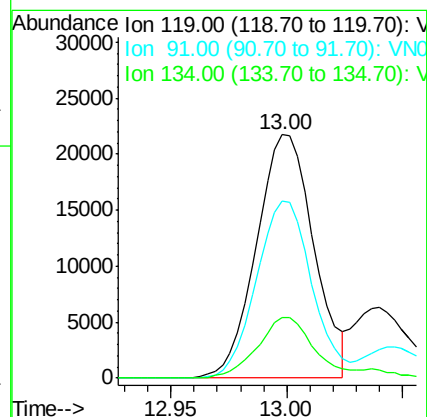
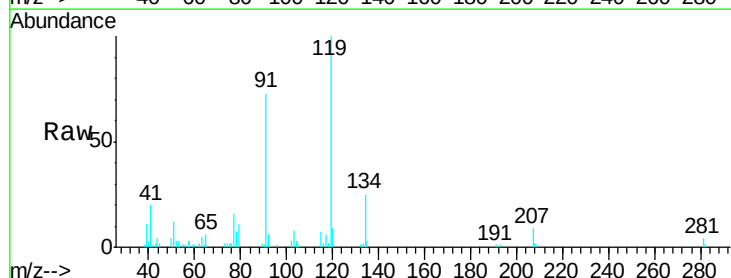
Tgt Ion: 119 Resp: 37477

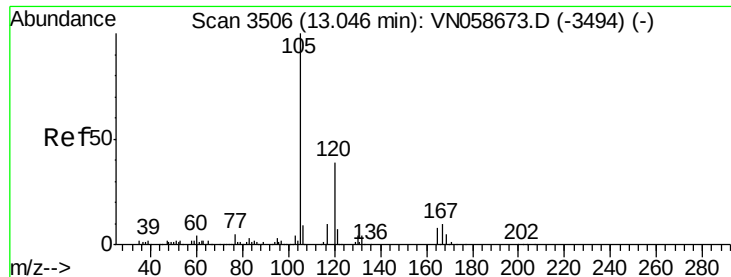
Ion Ratio Lower Upper

119 100

91 70.3 0.0 136.4

134 24.5 0.0 47.2





#80

1,2,4-Trimethylbenzene

Concen: 2.432 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

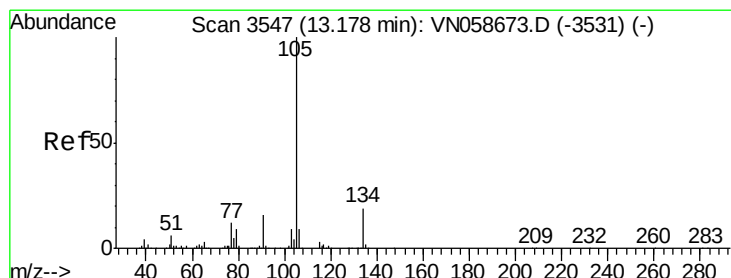
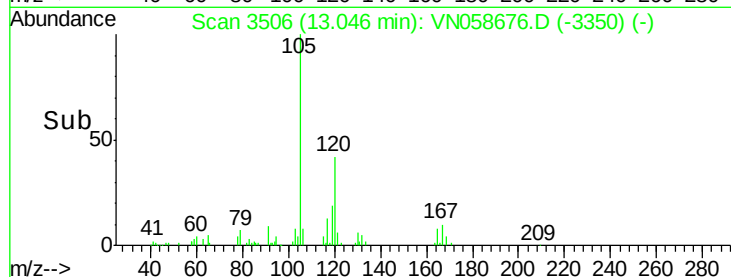
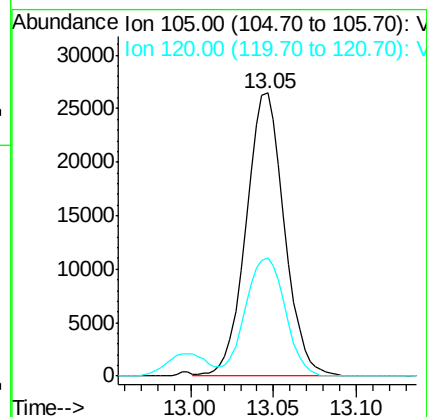
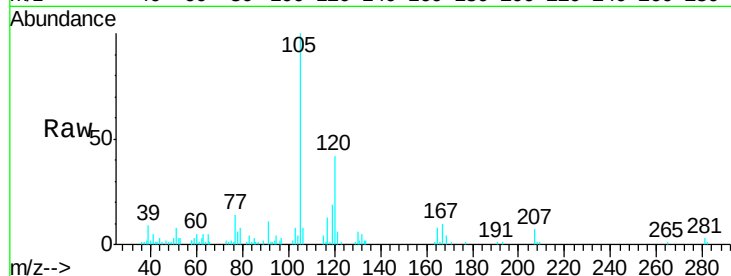
LOD-MDL-WATER-01-QT4-2019

Tgt Ion:105 Resp: 42422

Ion Ratio Lower Upper

105 100

120 43.3 0.0 89.2



#81

sec-Butylbenzene

Concen: 2.459 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058676.D

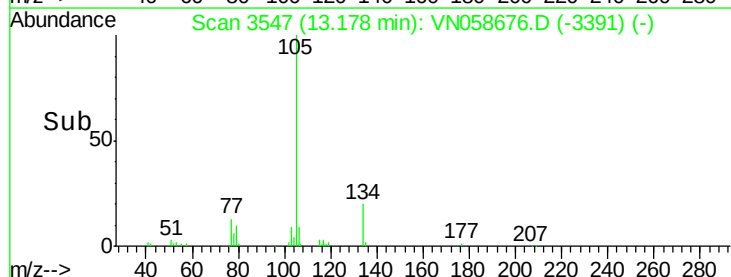
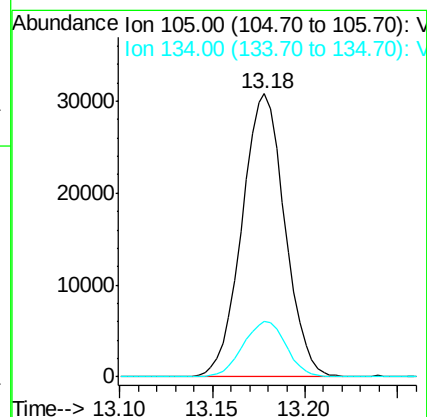
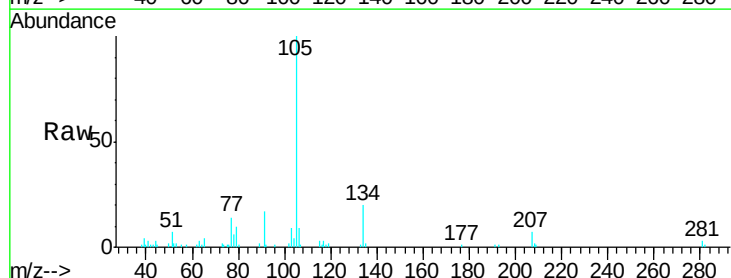
Acq: 10 Oct 2019 20:02

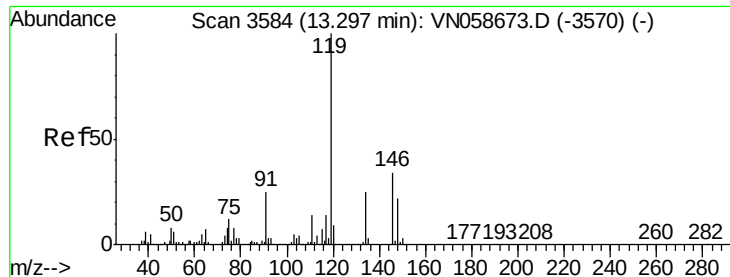
Tgt Ion:105 Resp: 49641

Ion Ratio Lower Upper

105 100

134 19.6 0.0 38.0

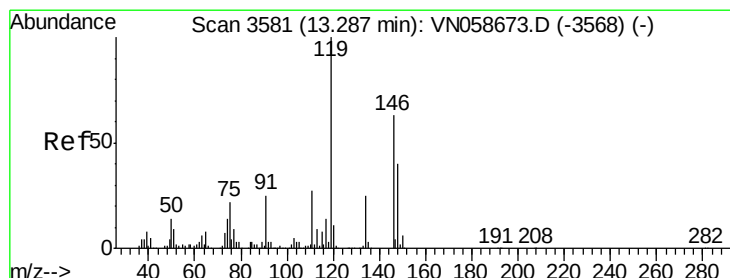
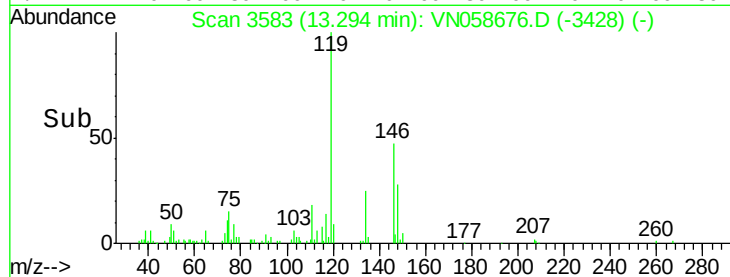
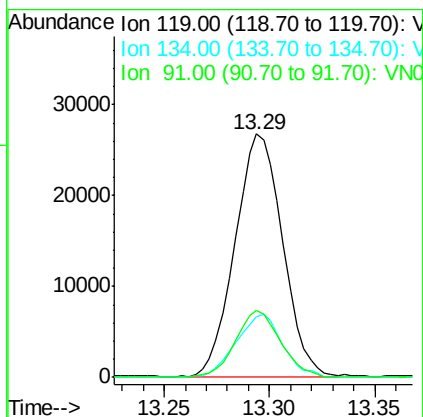
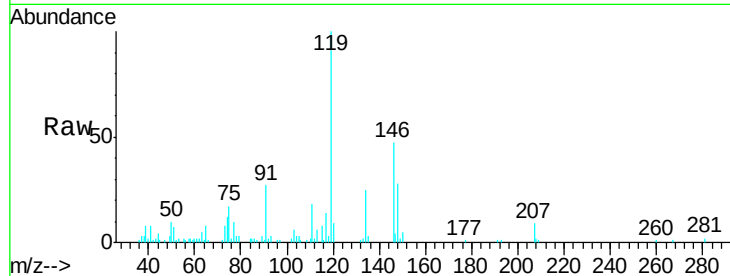




#82
p-Isopropyltoluene
Concen: 2.329 ug/l
RT: 13.29 min Scan# 3583
Delta R.T. -0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

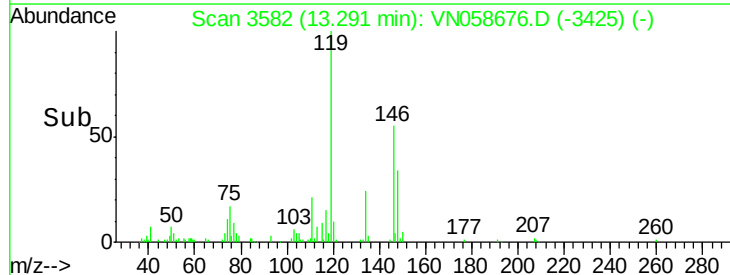
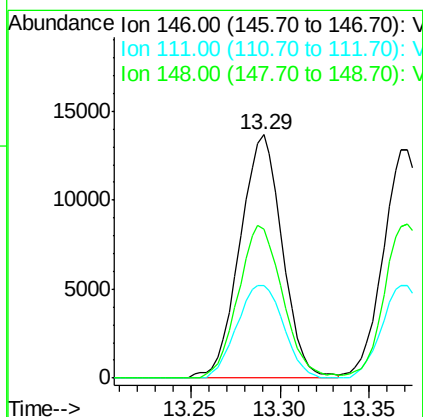
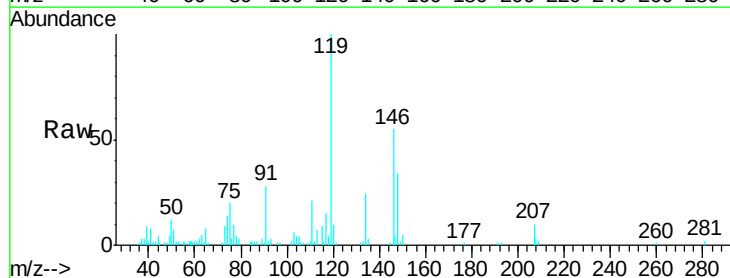
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

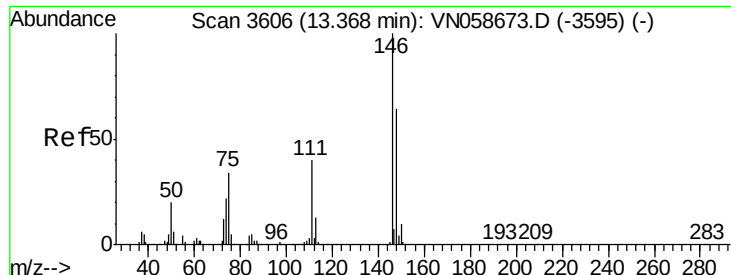
Tgt Ion:119 Resp: 42218
Ion Ratio Lower Upper
119 100
134 25.2 0.0 50.8
91 25.8 0.0 49.4



#83
1,3-Dichlorobenzene
Concen: 2.515 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.00 min
Lab File: VN058676.D
Acq: 10 Oct 2019 20:02

Tgt Ion:146 Resp: 22655
Ion Ratio Lower Upper
146 100
111 41.6 21.0 63.0
148 65.8 31.7 95.1

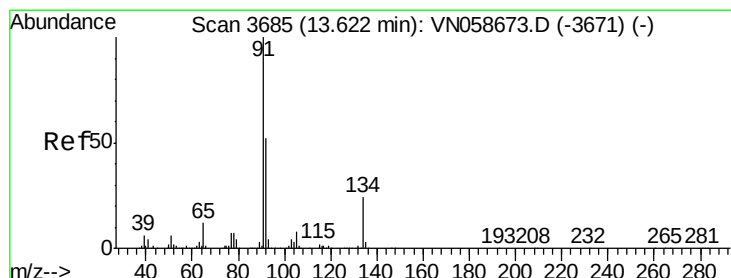
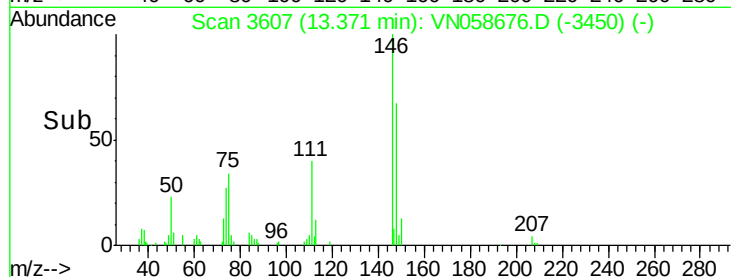
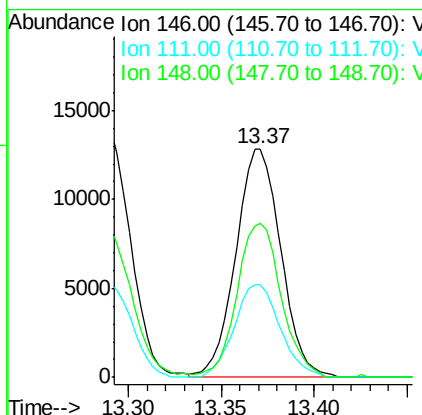
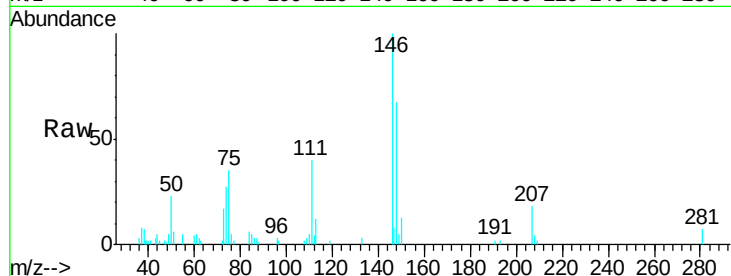




#84
 1,4-Dichlorobenzene
 Concen: 2.418 ug/l
 RT: 13.37 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

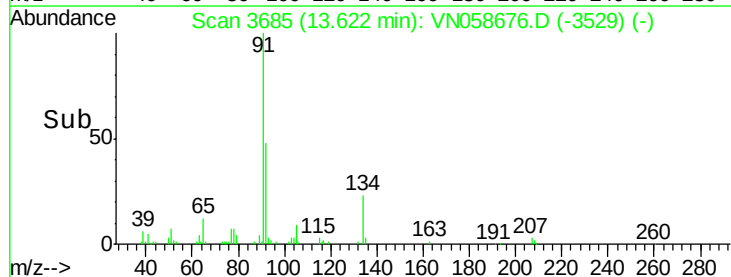
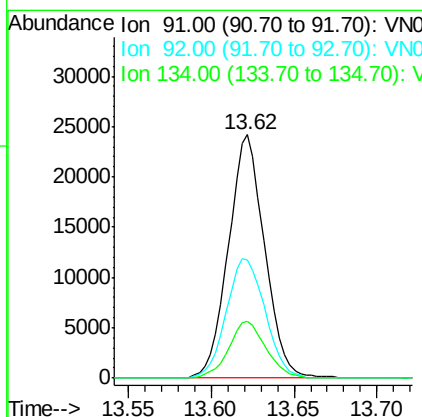
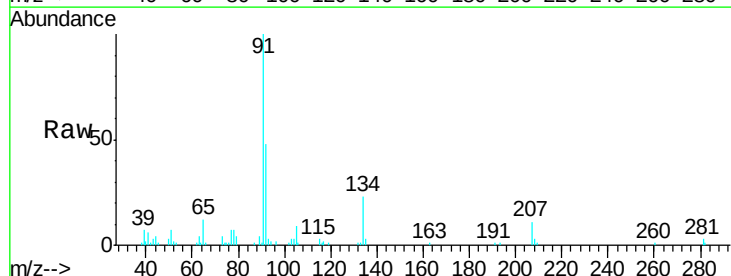
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

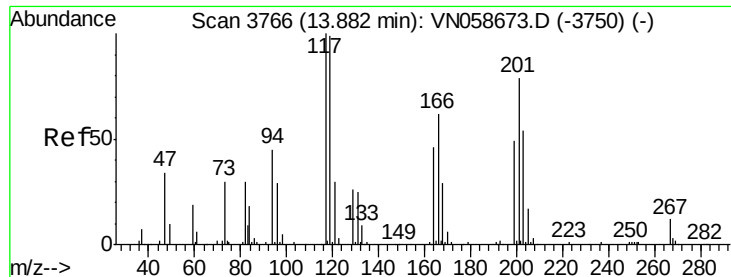
Tgt Ion:146 Resp: 21761
 Ion Ratio Lower Upper
 146 100
 111 41.3 19.8 59.4
 148 66.0 31.6 94.8



#85
 n-Butylbenzene
 Concen: 2.217 ug/l
 RT: 13.62 min Scan# 3685
 Delta R.T. -0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion: 91 Resp: 36793
 Ion Ratio Lower Upper
 91 100
 92 52.6 0.0 102.8
 134 24.0 0.0 48.6





#86

Hexachloroethane

Concen: 2.543 ug/l

RT: 13.88 min Scan# 3766

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

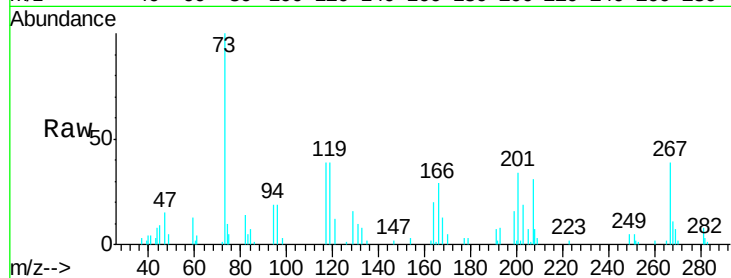
LOD-MDL-WATER-01-QT4-2019

Tgt Ion:117 Resp: 8390

Ion Ratio Lower Upper

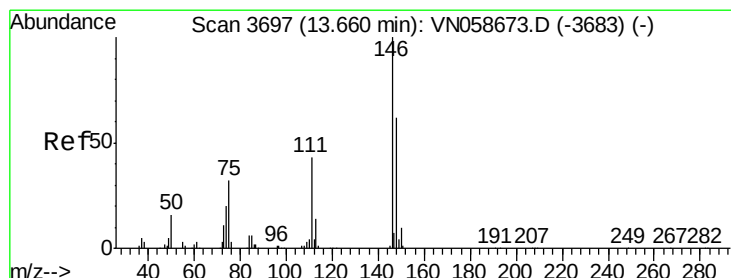
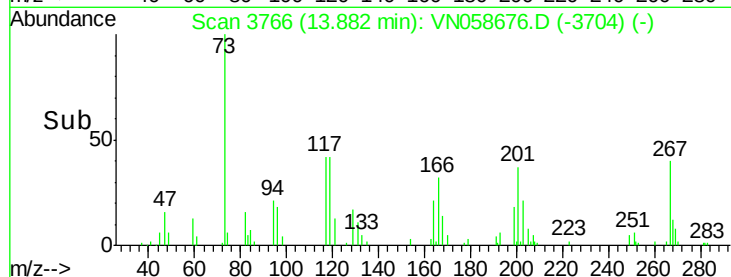
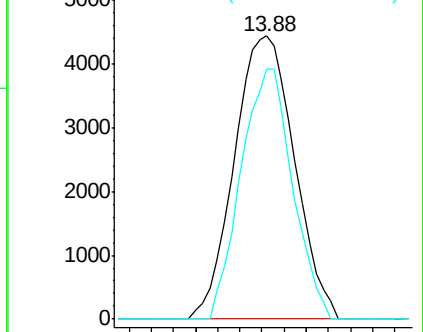
117 100

201 75.8 38.7 116.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#87

1,2-Dichlorobenzene

Concen: 2.601 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

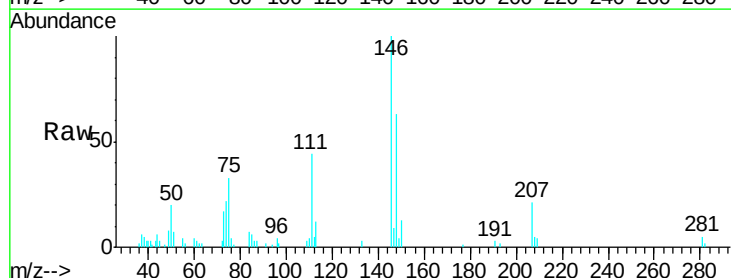
Tgt Ion:146 Resp: 23132

Ion Ratio Lower Upper

146 100

111 43.4 21.8 65.4

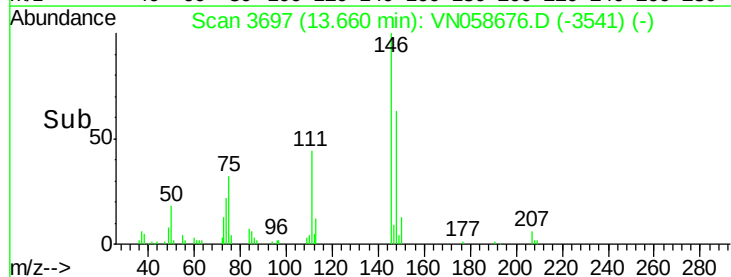
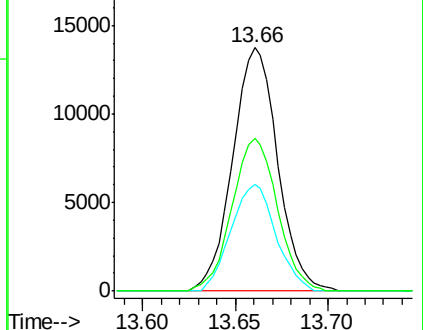
148 63.3 32.1 96.5

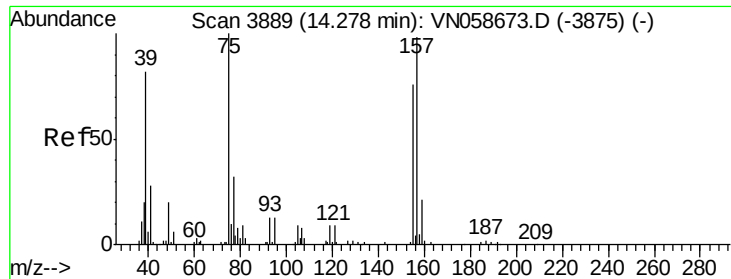


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

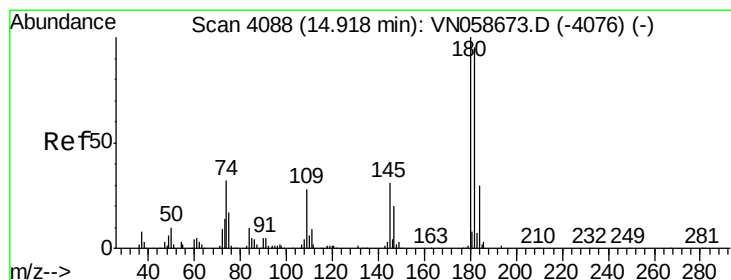
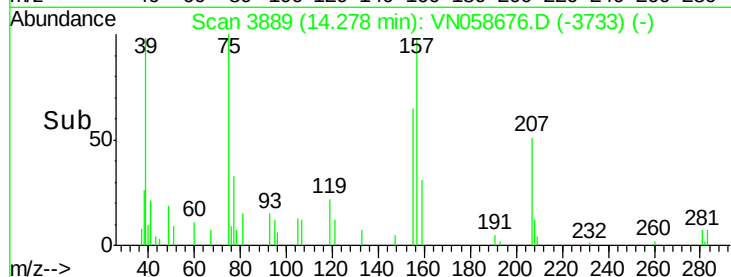
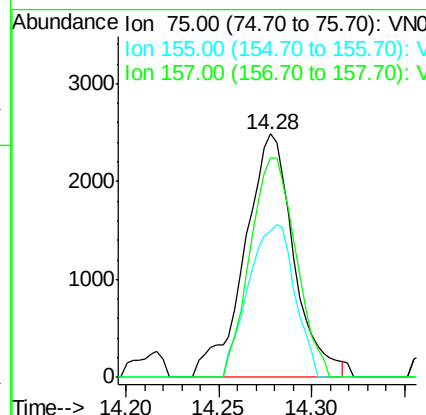
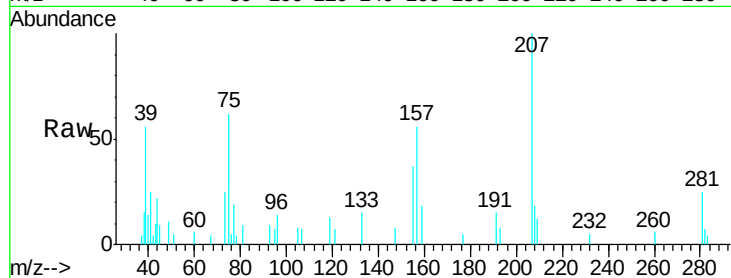




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 3.003 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

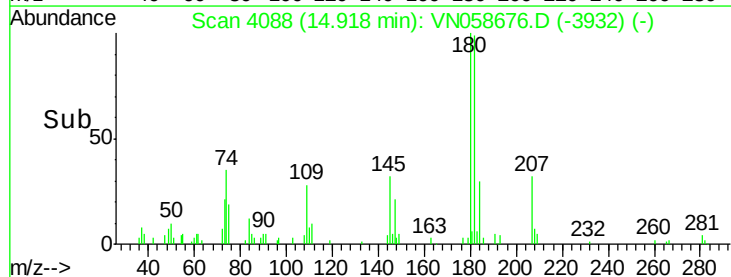
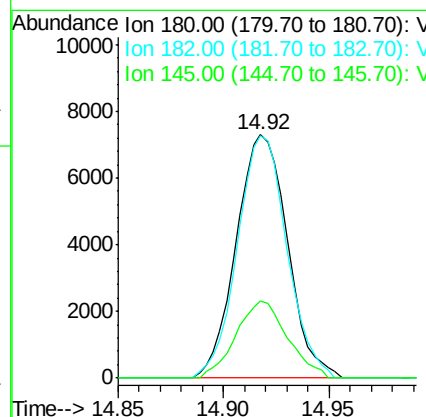
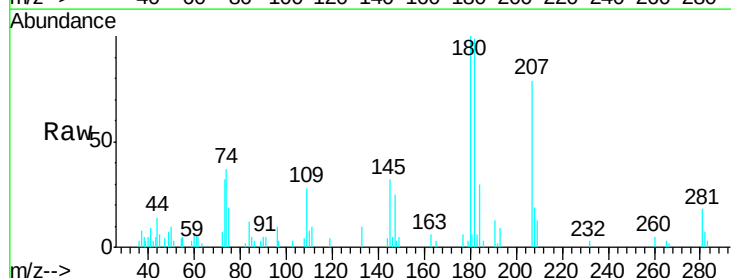
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

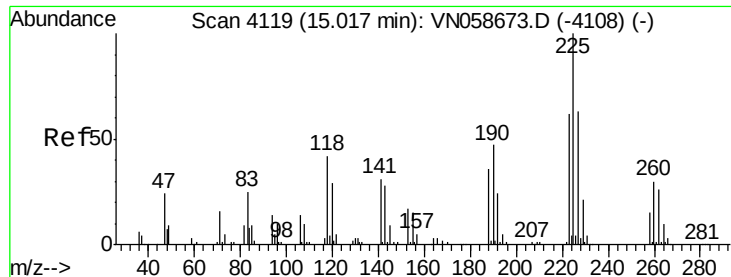
Tgt Ion: 75 Resp: 4612
 Ion Ratio Lower Upper
 75 100
 155 59.0 58.3 87.5
 157 83.5 75.0 112.6



#89
 1,2,4-Trichlorobenzene
 Concen: 2.196 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Tgt Ion: 180 Resp: 12332
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.3 112.9
 145 31.8 24.8 37.2





#90

Hexachlorobutadiene

Concen: 2.623 ug/l

RT: 15.02 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

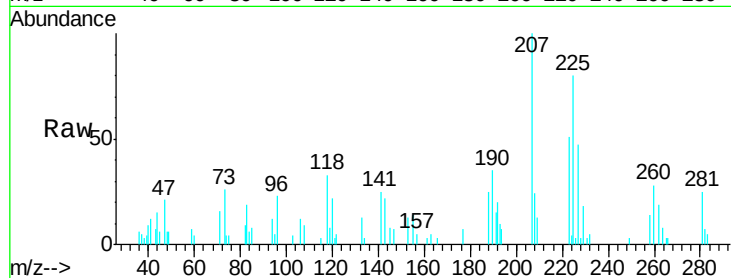
Tgt Ion:225 Resp: 7606

Ion Ratio Lower Upper

225 100

223 60.2 0.0 126.2

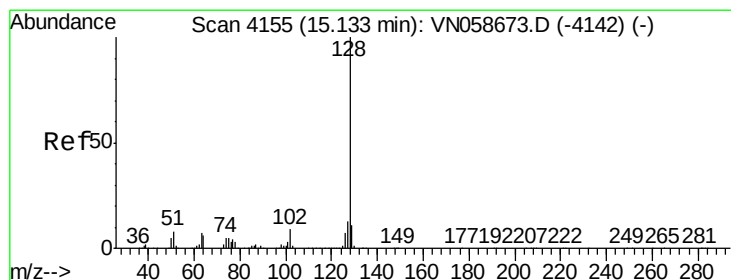
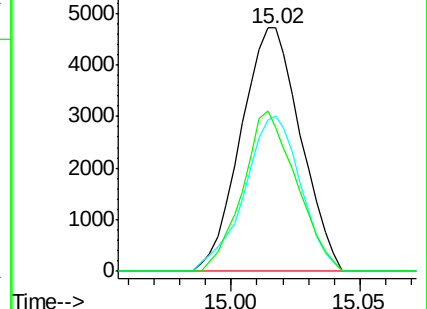
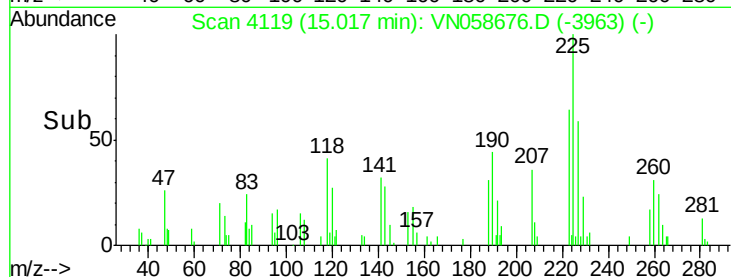
227 59.2 0.0 127.0



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 2.157 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058676.D

Acq: 10 Oct 2019 20:02

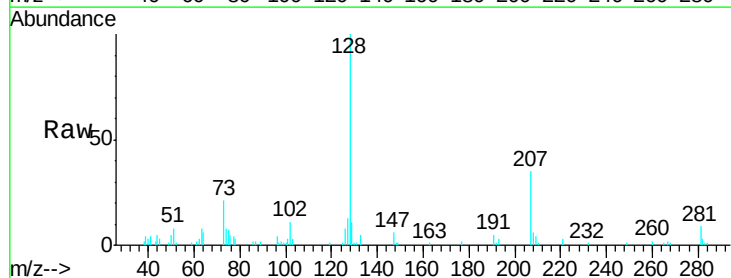
Tgt Ion:128 Resp: 35768

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

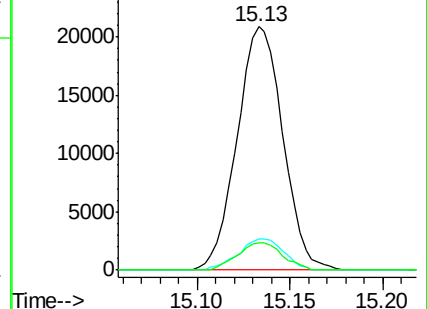
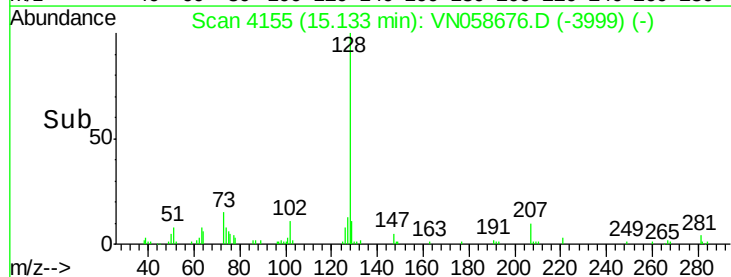
129 11.0 8.6 13.0

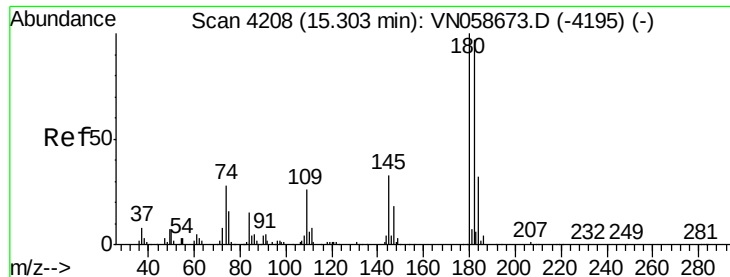


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#92
 1,2,3-Trichlorobenzene
 Concen: 2.359 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN058676.D
 Acq: 10 Oct 2019 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.3	0.0	193.4
145	33.0	0.0	65.8

