

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071420\
 Data File : VN062522.D
 Acq On : 14 Jul 2020 11:12
 Operator : JC/MD
 Sample : L3216-09 2.5PPB MDL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020

Quant Time: Jul 15 00:59:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jul 14 00:52:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	39093	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	214555	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	193900	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	102058	30.39	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.30%
60) 4-Bromofluorobenzene	12.38	95	89138	27.01	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.03%
63) Toluene-d8	10.06	98	276764	30.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	5259	2.279 ug/l	91
3) Chloromethane	2.04	50	8105	2.433 ug/l	92
4) Vinyl Chloride	2.16	62	7364	2.528 ug/l	97
5) Bromomethane	2.53	94	3888	2.691 ug/l	93
6) Chloroethane	2.67	64	3437	2.397 ug/l	95
7) Trichlorofluoromethane	2.99	101	8544	2.503 ug/l	100
8) Diethyl Ether	3.37	74	4025	2.453 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.72	101	5679m	2.574 ug/l	
10) 1,1-Dichloroethene	3.70	96	6004	2.667 ug/l	88
11) Methyl Iodide	3.90	142	5763	2.090 ug/l	94
12) Methyl Acetate	4.28	43	7651	2.534 ug/l	95
13) Acrolein	3.57	56	3571m	7.916 ug/l	
14) Acrylonitrile	4.94	53	16157m	11.507 ug/l	
15) Acetone	3.78	58	4693m	10.888 ug/l	
16) Carbon Disulfide	4.01	76	18439	2.513 ug/l	97
17) Allyl chloride	4.27	41	11703	2.444 ug/l	97
18) Methylene Chloride	4.50	84	7412	2.676 ug/l	94
19) trans-1,2-Dichloroethene	4.99	96	6092	2.445 ug/l	85
20) Diisopropyl ether	5.90	45	23197	2.357 ug/l	89
21) 1,1-Dichloroethane	5.79	63	13573	2.608 ug/l #	93
22) cis-1,2-Dichloroethene	6.77	96	7085m	2.521 ug/l	
23) tert-Butyl Alcohol	4.73	59	6000	12.768 ug/l #	100
24) Methyl tert-Butyl Ether	4.99	73	20307	2.447 ug/l #	66
25) Chloroform	7.33	83	11763	2.465 ug/l	100
26) Cyclohexane	7.61	56	10560	2.303 ug/l #	96
29) 1,1-Dichloropropene	7.75	75	8488	2.332 ug/l	94
30) 2-Butanone	6.79	43	21868	11.330 ug/l	98
31) 2,2-Dichloropropane	6.77	77	10465	2.550 ug/l #	90
32) 1,1,1-Trichloroethane	7.53	97	10225	2.614 ug/l	97
33) Carbon Tetrachloride	7.73	117	8688	2.562 ug/l	97
34) Benzene	8.00	78	27589	2.552 ug/l #	27
35) Methacrylonitrile	7.12	41	3955m	2.333 ug/l	
36) 1,2-Dichloroethane	8.09	62	10591	2.725 ug/l #	88
37) Trichloroethene	8.80	130	6183	2.546 ug/l	97
38) Methylcyclohexane	9.05	83	9529	2.334 ug/l	98
39) 1,2-Dichloropropane	9.08	63	7633	2.478 ug/l	93
40) Dibromomethane	9.18	93	4584	2.582 ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	9407	2.498	ug/l	98
42) Vinyl Acetate	5.84	43	93475	11.655	ug/l	100
43) Ethyl Acetate	6.89	43	8284	2.135	ug/l	98
44) Isopropyl Acetate	8.12	43	15114	2.321	ug/l	98
45) 1,4-Dioxane	9.17	88	2066	46.389	ug/l #	90
46) Methyl methacrylate	9.17	41	6930	2.244	ug/l	96
47) n-amyl Acetate	12.05	43	9122	1.662	ug/l	96
48) t-1,3-Dichloropropene	10.35	75	10158	2.313	ug/l	96
49) cis-1,3-Dichloropropene	9.81	75	11212	2.365	ug/l	95
50) 1,1,2-Trichloroethane	10.53	97	6407	2.575	ug/l	97
51) Ethyl methacrylate	10.40	69	8518	2.033	ug/l	94
52) 1,3-Dichloropropane	10.68	76	11852	2.595	ug/l	99
53) Dibromochloromethane	10.88	129	6300	2.324	ug/l	97
54) 1,2-Dibromoethane	10.98	107	6378	2.504	ug/l	97
55) 2-Chloroethyl vinyl ether	9.66	63	12514	9.352	ug/l	99
56) Bromoform	12.10	173	3874	2.092	ug/l	95
58) 4-Methyl-2-Pentanone	9.95	43	43936	11.630	ug/l	99
59) 2-Hexanone	10.72	43	28604	10.324	ug/l	100
61) Tetrachloroethene	10.60	164	5700	2.871	ug/l	90
62) Toluene	10.12	91	29086	2.644	ug/l	98
64) Chlorobenzene	11.41	112	17040	2.636	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.48	131	6045	2.527	ug/l	98
66) Ethyl Benzene	11.48	91	29175	2.395	ug/l	100
67) m/p-Xylenes	11.59	106	20014	4.527	ug/l	99
68) o-Xylene	11.92	106	9880	2.329	ug/l	94
69) Styrene	11.94	104	14371	1.996	ug/l	96
70) Isopropylbenzene	12.22	105	25808	2.266	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.48	83	9263	2.516	ug/l	98
72) 1,2,3-Trichloropropane	12.53	75	8515m	2.378	ug/l	
73) Bromobenzene	12.50	156	6361	2.411	ug/l	98
74) n-propylbenzene	12.57	91	30585	2.259	ug/l	98
75) 2-Chlorotoluene	12.65	91	19355	2.374	ug/l	97
76) 1,3,5-Trimethylbenzene	12.71	105	21526	2.218	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	2601	1.942	ug/l	90
78) 4-Chlorotoluene	12.75	91	17507	2.105	ug/l	100
79) tert-butylbenzene	12.97	119	18704	2.327	ug/l	98
80) 1,2,4-Trimethylbenzene	13.01	105	19304	2.022	ug/l	98
81) sec-Butylbenzene	13.15	105	23044	2.135	ug/l	96
82) p-Isopropyltoluene	13.26	119	19874	2.087	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	9651	2.107	ug/l	98
84) 1,4-Dichlorobenzene	13.34	146	9549	2.112	ug/l	93
85) n-Butylbenzene	13.59	91	15082	1.846	ug/l	97
86) Hexachloroethane	13.85	117	4202	2.286	ug/l	97
87) 1,2-Dichlorobenzene	13.63	146	9282	2.107	ug/l	93
88) 1,2-Dibromo-3-Chloropropan	14.25	75	1244	1.789	ug/l	93
89) 1,2,4-Trichlorobenzene	14.89	180	2980	1.359	ug/l	93
90) Hexachlorobutadiene	14.98	225	2848	2.341	ug/l	92
91) Naphthalene	15.11	128	7608	1.279	ug/l	98
92) 1,2,3-Trichlorobenzene	15.28	180	3311	1.498	ug/l	97

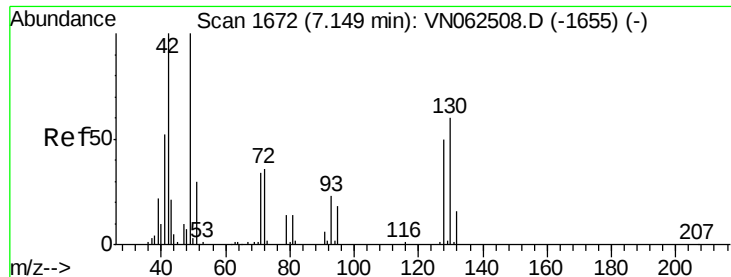
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1672

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020

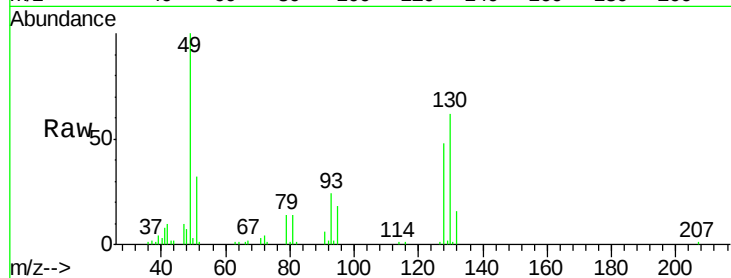
Tot Ion:128 Resp: 39093

Ion Ratio Lower Upper

128 100

49 209.7 0.0 525.0

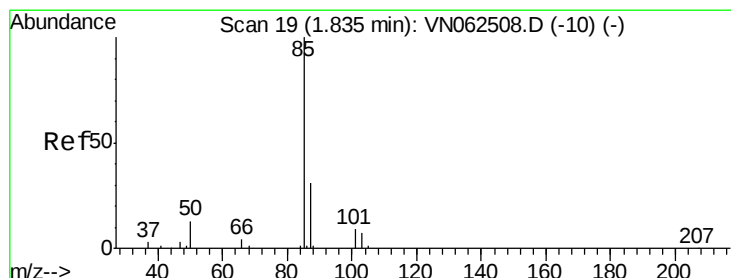
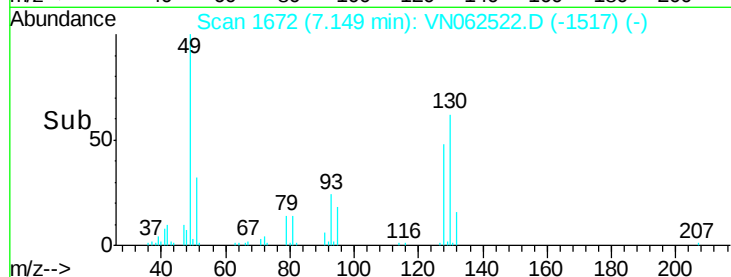
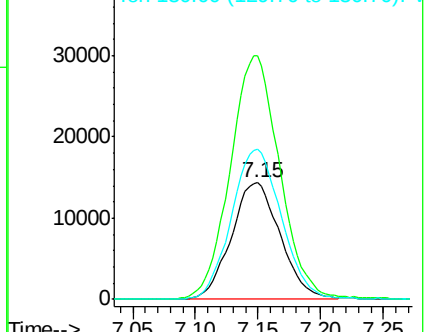
130 131.2 0.0 319.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 2.279 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN062522.D

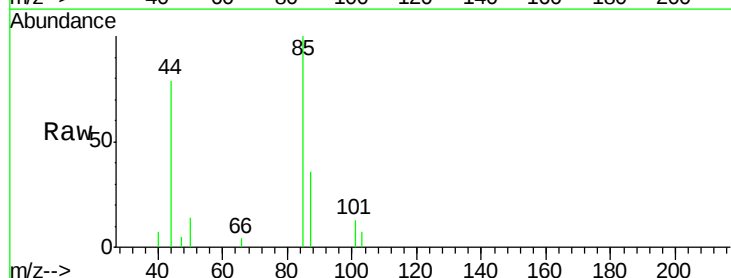
Acq: 14 Jul 2020 11:12

Tgt Ion: 85 Resp: 5259

Ion Ratio Lower Upper

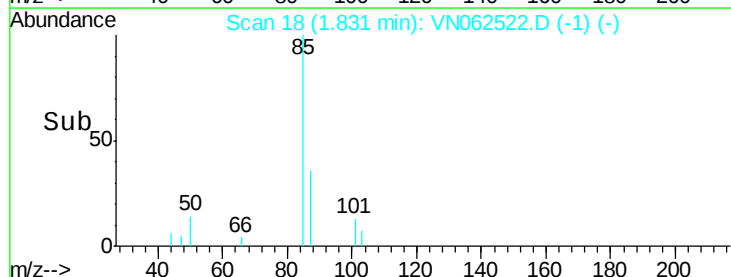
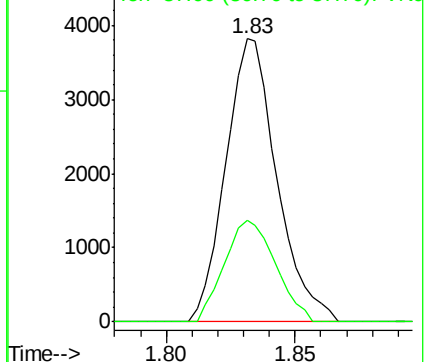
85 100

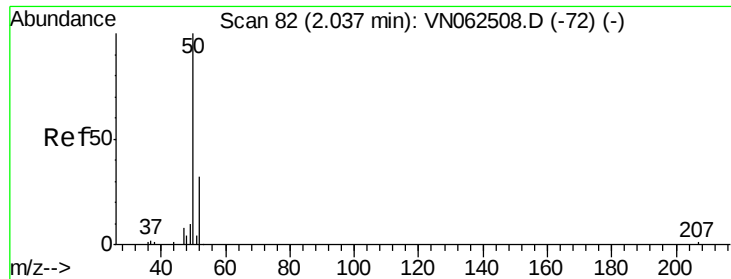
87 35.9 15.6 46.7



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 2.433 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

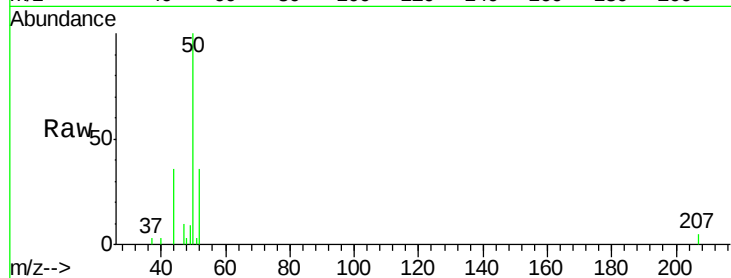
MDL-WATER-03-QT3-2020

Tot Ion: 50 Resp: 8105

Ion Ratio Lower Upper

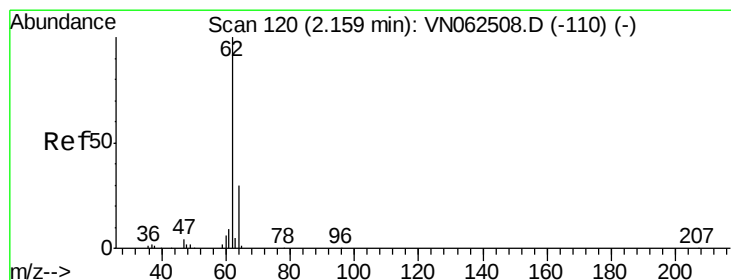
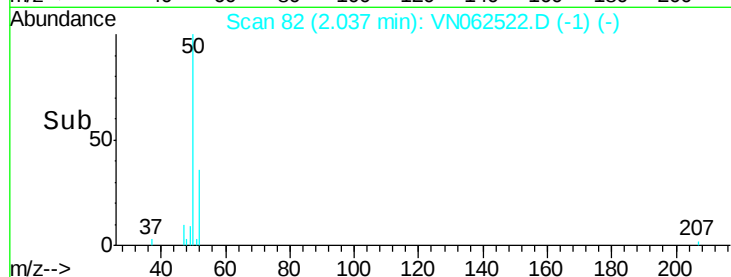
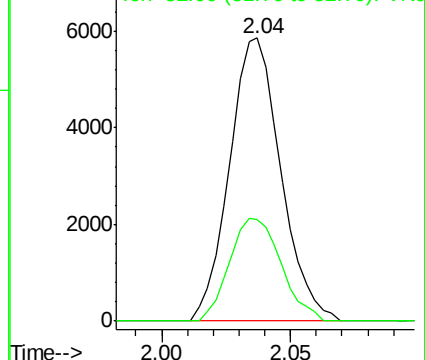
50 100

52 36.1 25.4 38.2



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 2.528 ug/l

RT: 2.16 min Scan# 120

Delta R.T. -0.00 min

Lab File: VN062522.D

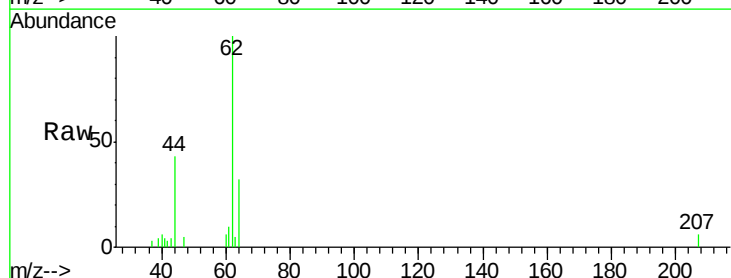
Acq: 14 Jul 2020 11:12

Tgt Ion: 62 Resp: 7364

Ion Ratio Lower Upper

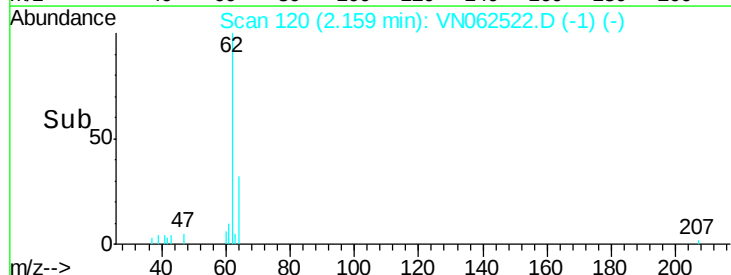
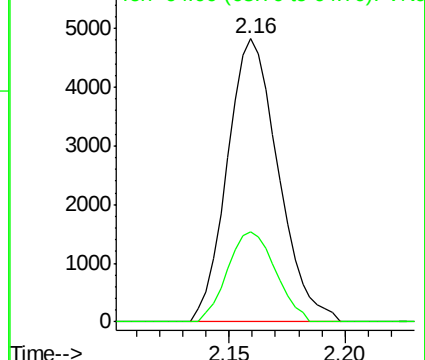
62 100

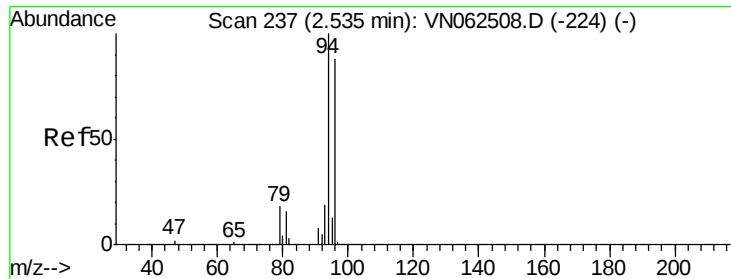
64 32.0 24.3 36.5



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 2.691 ug/l

RT: 2.53 min Scan# 236

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

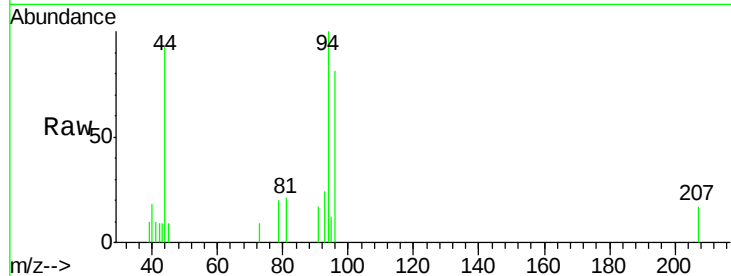
MDL-WATER-03-QT3-2020

Tot Ion: 94 Resp: 3888

Ion Ratio Lower Upper

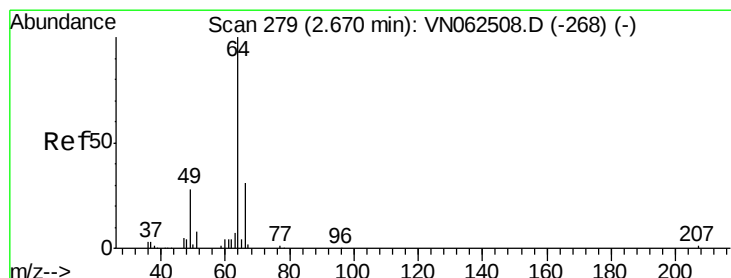
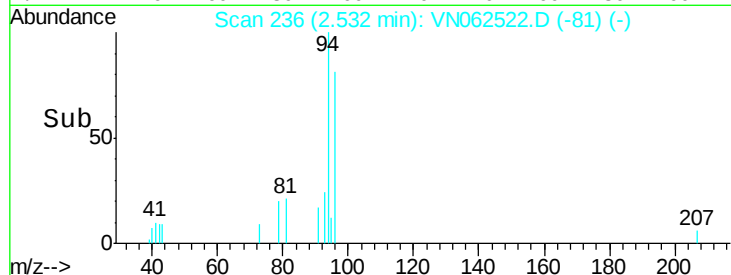
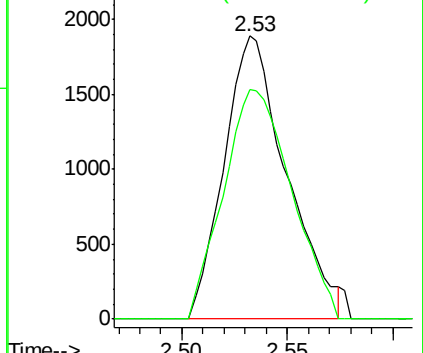
94 100

96 81.0 70.2 105.4



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 2.397 ug/l

RT: 2.67 min Scan# 279

Delta R.T. -0.00 min

Lab File: VN062522.D

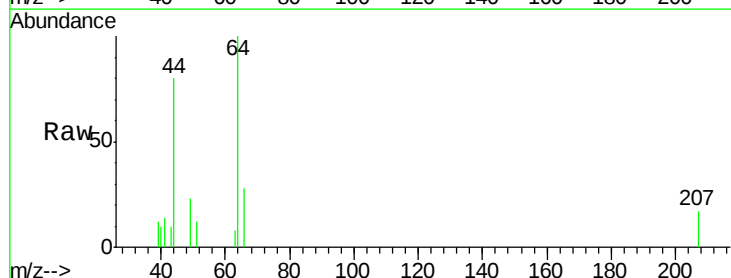
Acq: 14 Jul 2020 11:12

Tgt Ion: 64 Resp: 3437

Ion Ratio Lower Upper

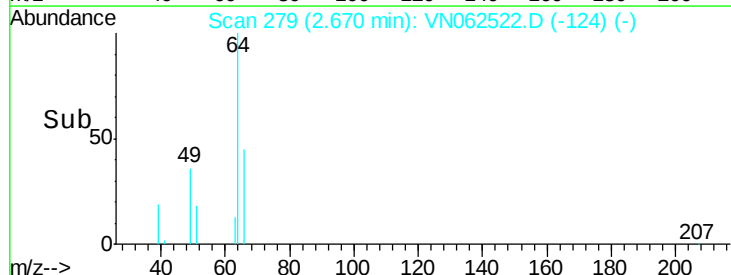
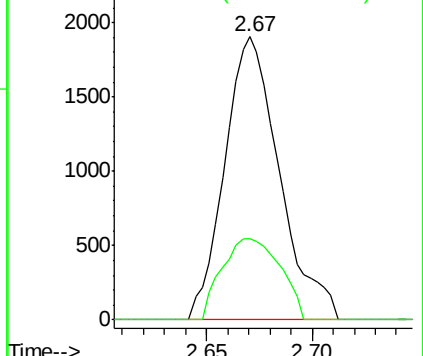
64 100

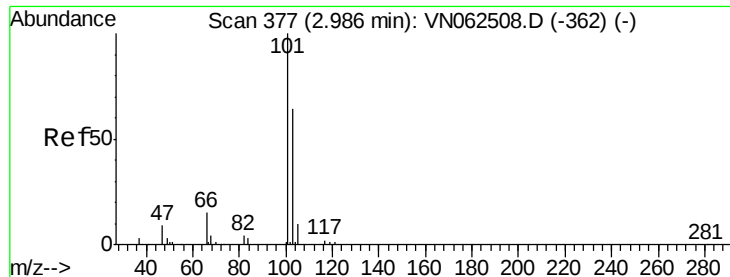
66 28.5 24.9 37.3



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0



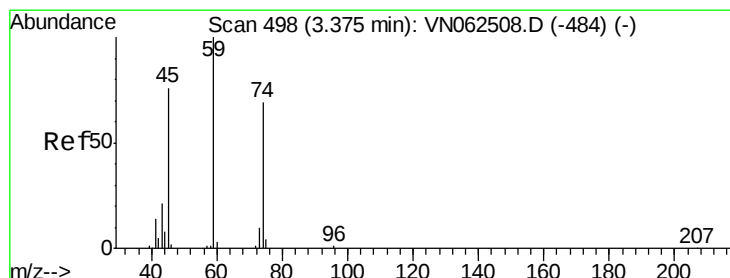
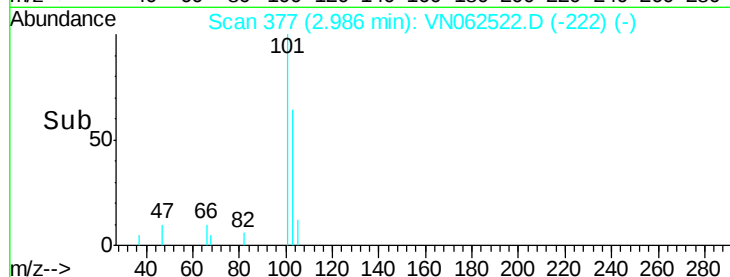
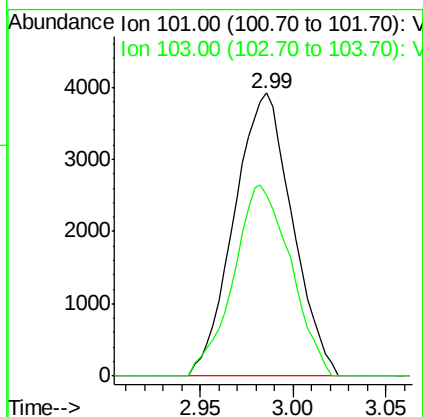
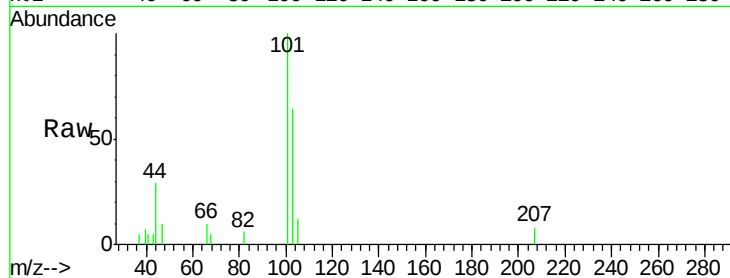


#7

Trichlorofluoromethane
 Concen: 2.503 ug/l
 RT: 2.99 min Scan# 377
 Delta R.T. -0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

Instrument :
 MSVOA_N
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 MDL-WATER-03-QT3-2020

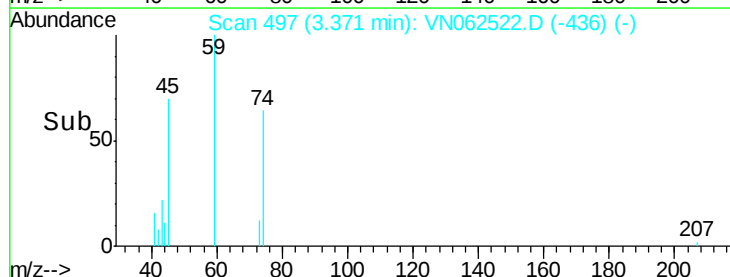
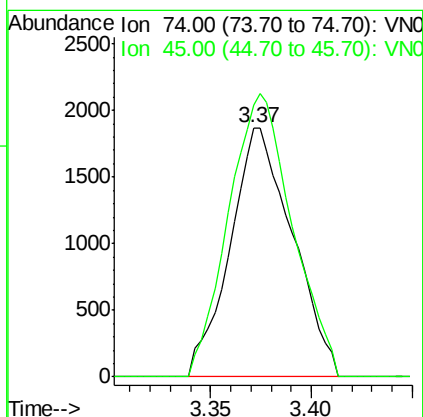
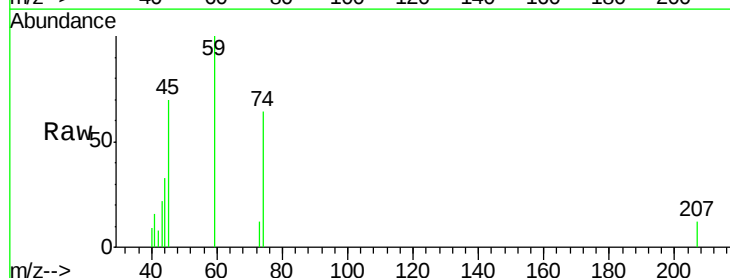
Tot Ion:101 Resp: 8544
 Ion Ratio Lower Upper
 101 100
 103 63.7 50.9 76.3

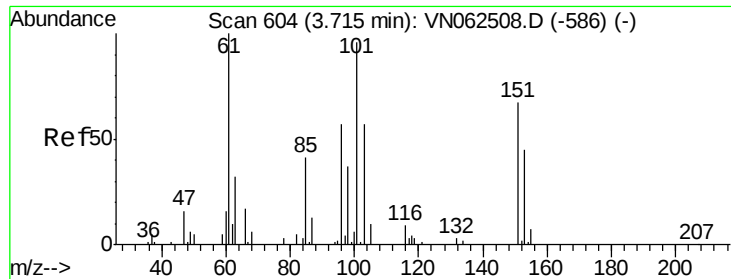


#8

Diethyl Ether
 Concen: 2.453 ug/l
 RT: 3.37 min Scan# 497
 Delta R.T. -0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

Tgt Ion: 74 Resp: 4025
 Ion Ratio Lower Upper
 74 100
 45 116.1 21.8 196.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.574 ug/l m

RT: 3.72 min Scan# 606

Delta R.T. 0.01 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020

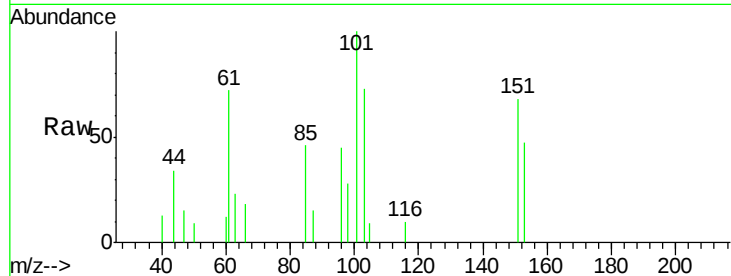
Tot Ion:101 Resp: 5679

Ion Ratio Lower Upper

101 100

85 18.6 0.0 90.4

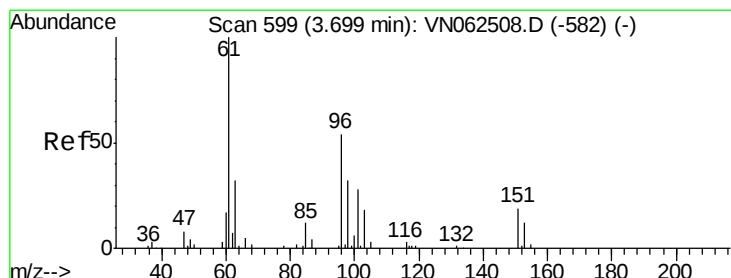
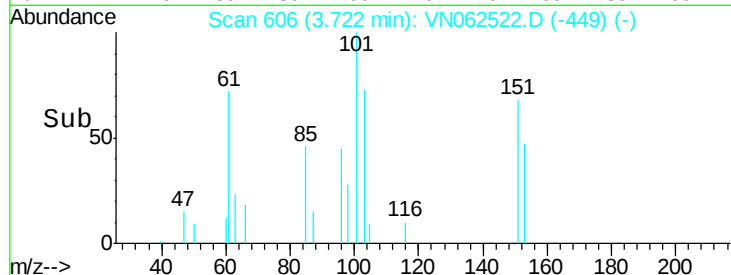
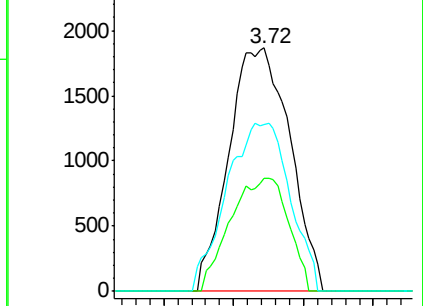
151 39.6 0.0 145.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 2.667 ug/l

RT: 3.70 min Scan# 598

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

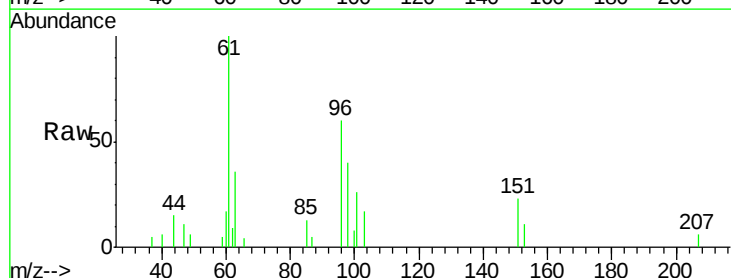
Tgt Ion: 96 Resp: 6004

Ion Ratio Lower Upper

96 100

61 165.5 147.8 221.8

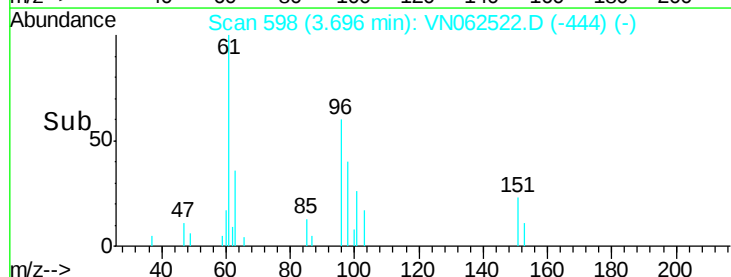
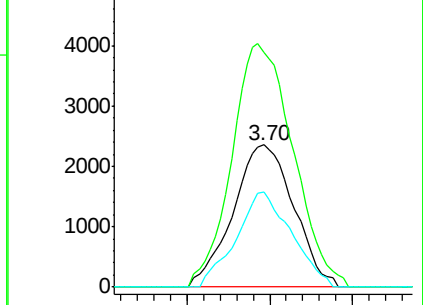
98 66.7 47.8 71.8

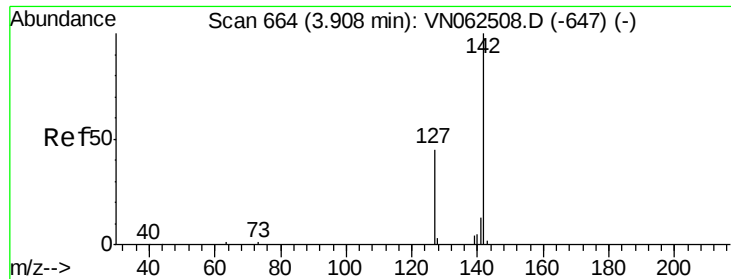


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

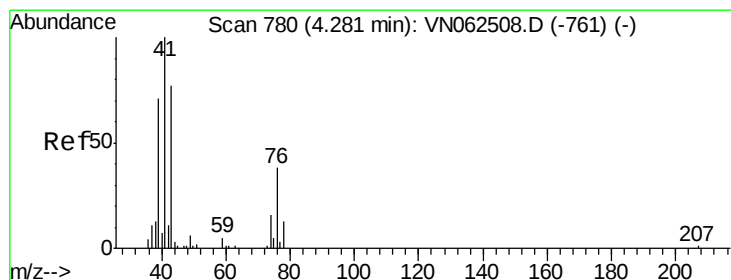
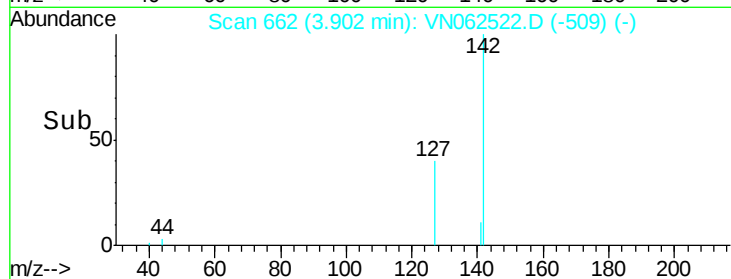
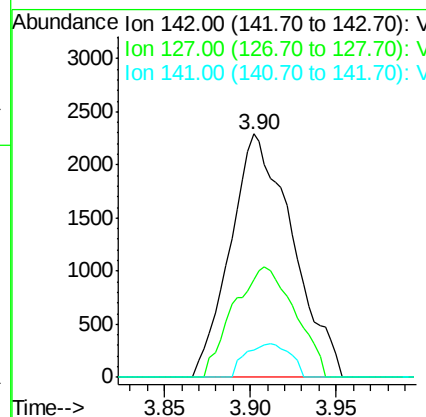
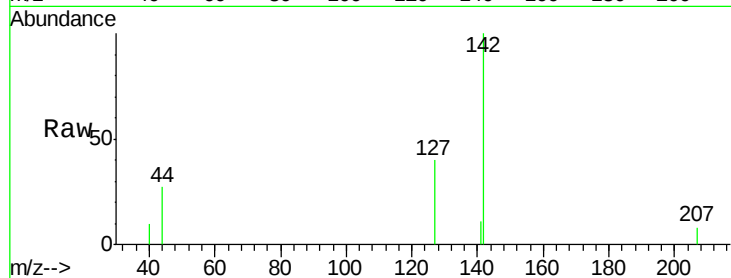




#11
Methvl Iodide
Concen: 2.090 ug/l
RT: 3.90 min Scan# 662
Delta R.T. -0.01 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

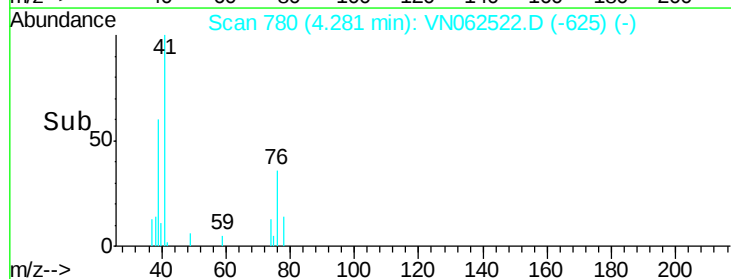
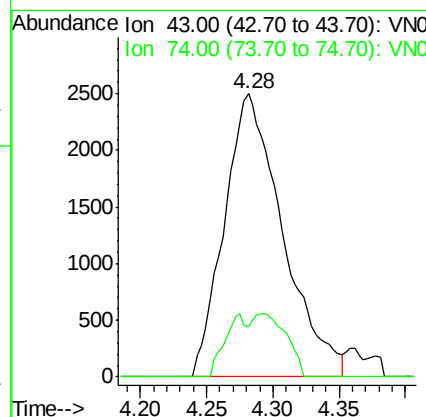
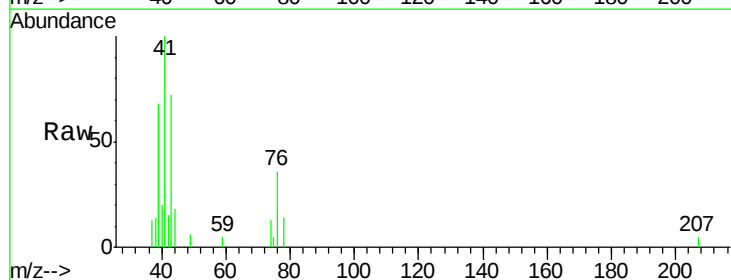
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

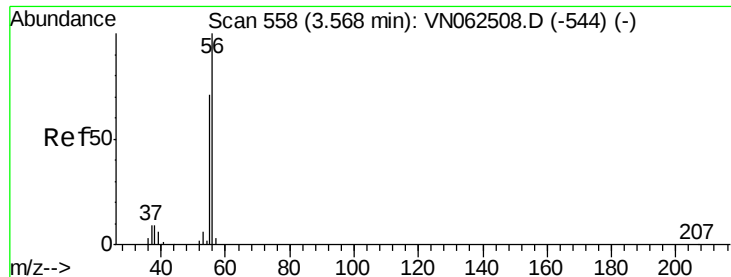
Tot Ion:142 Resp: 5763
Ion Ratio Lower Upper
142 100
127 40.1 22.1 66.5
141 11.4 6.5 19.4



#12
Methyl Acetate
Concen: 2.534 ug/l
RT: 4.28 min Scan# 780
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion: 43 Resp: 7651
Ion Ratio Lower Upper
43 100
74 18.5 16.7 25.1





#13

Acrolein

Concen: 7.916 ug/l m

RT: 3.57 min Scan# 559

Delta R.T. 0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

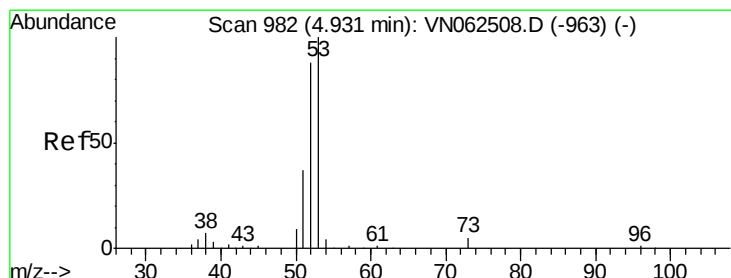
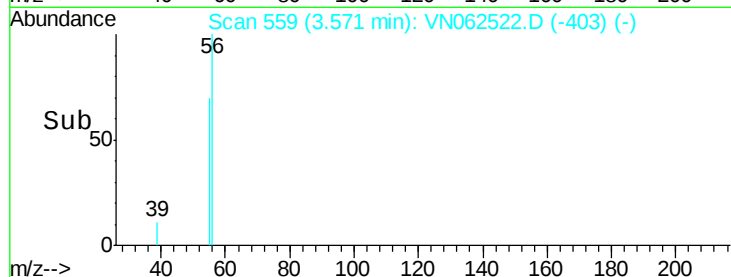
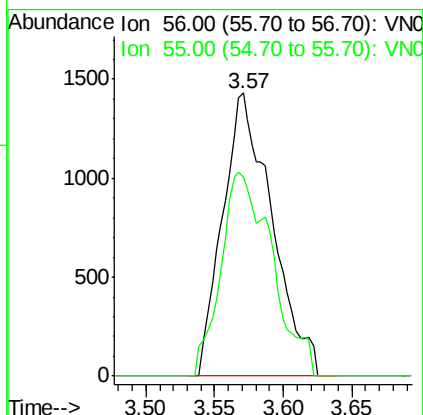
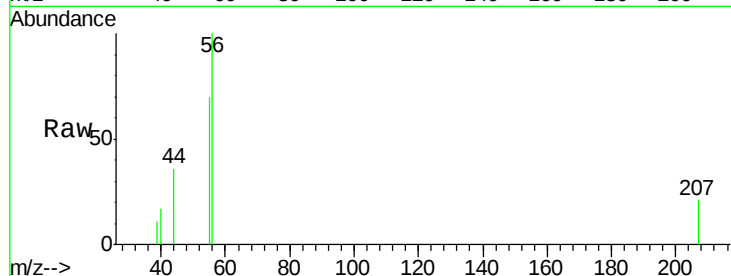
MDL-WATER-03-QT3-2020

Tot Ion: 56 Resp: 3571

Ion Ratio Lower Upper

56 100

55 48.4 56.0 84.0#



#14

Acrylonitrile

Concen: 11.507 ug/l m

RT: 4.94 min Scan# 984

Delta R.T. 0.01 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

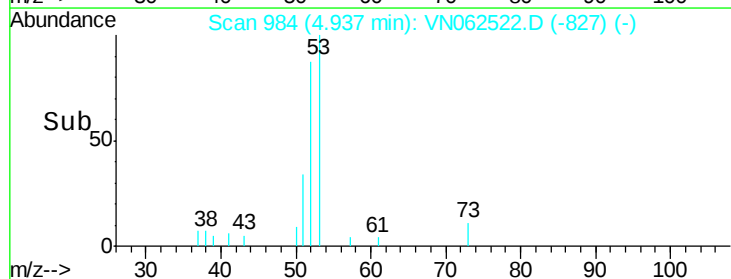
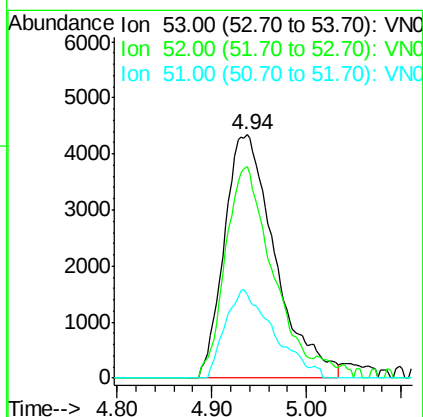
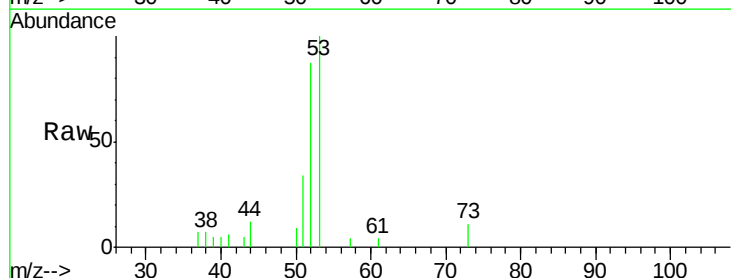
Tgt Ion: 53 Resp: 16157

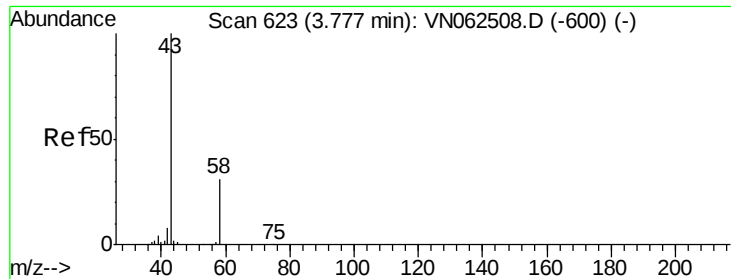
Ion Ratio Lower Upper

53 100

52 79.4 41.8 125.4

51 33.9 18.5 55.5





#15

Acetone

Concen: 10.888 ug/l m

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

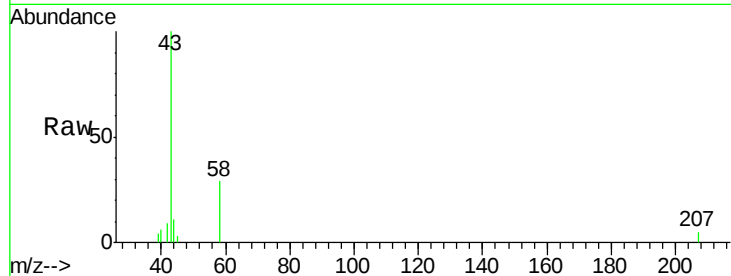
MDL-WATER-03-QT3-2020

Tot Ion: 58 Resp: 4693

Ion Ratio Lower Upper

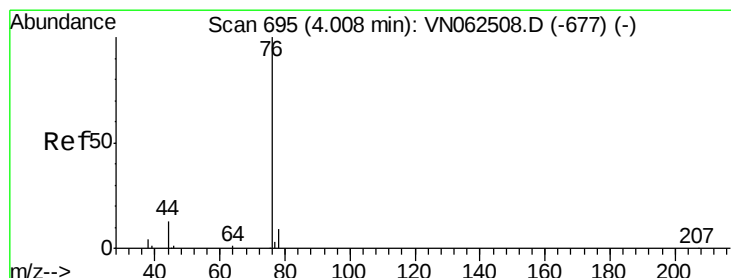
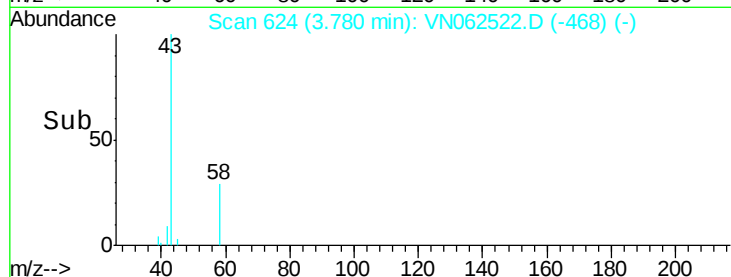
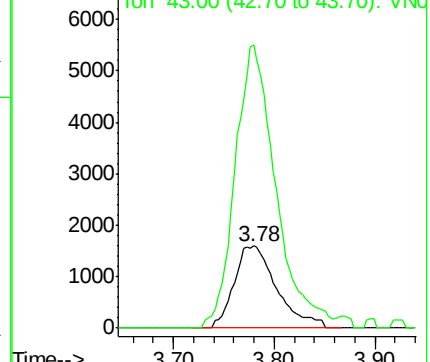
58 100

43 345.3 261.1 391.7



Abundance Ion 58.00 (57.70 to 58.70): VN062522.D (-468) (-)

Ion 43.00 (42.70 to 43.70): VN062522.D (-468) (-)



#16

Carbon Disulfide

Concen: 2.513 ug/l

RT: 4.01 min Scan# 695

Delta R.T. -0.00 min

Lab File: VN062522.D

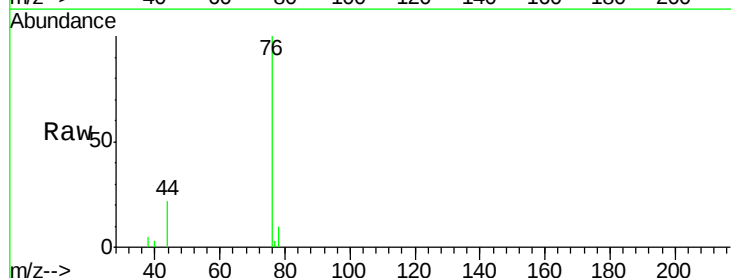
Acq: 14 Jul 2020 11:12

Tgt Ion: 76 Resp: 18439

Ion Ratio Lower Upper

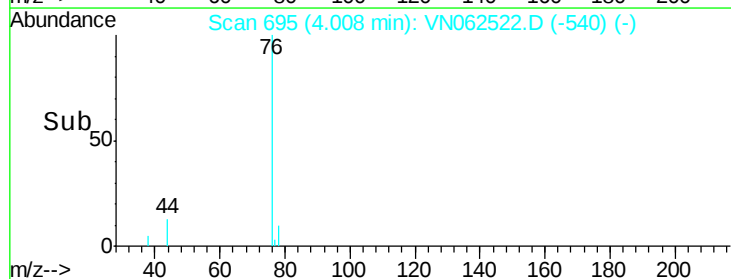
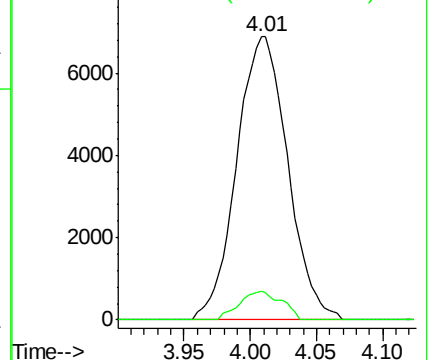
76 100

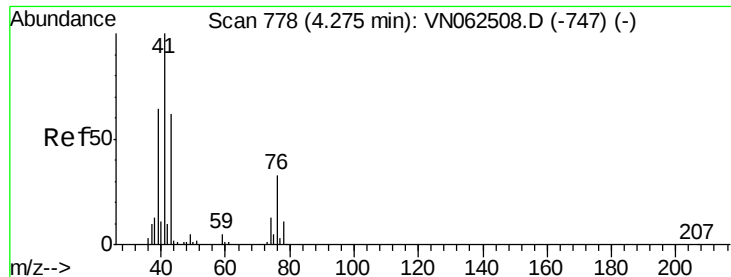
78 10.3 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN062522.D (-540) (-)

Ion 78.00 (77.70 to 78.70): VN062522.D (-540) (-)

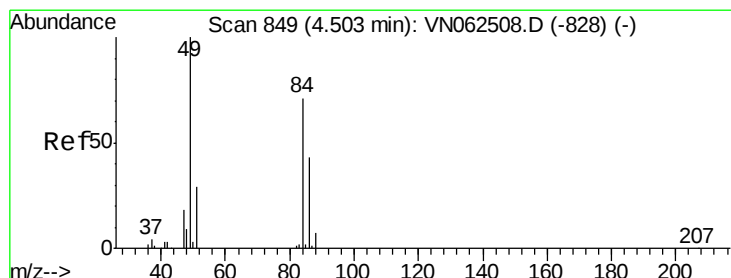
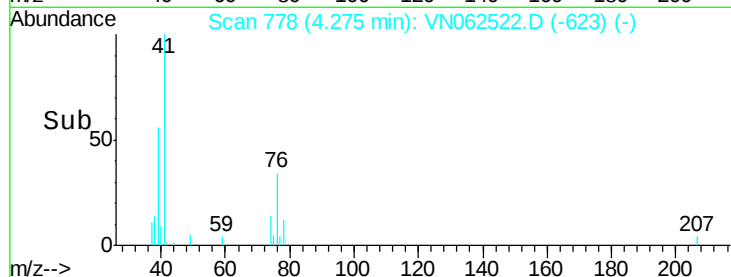
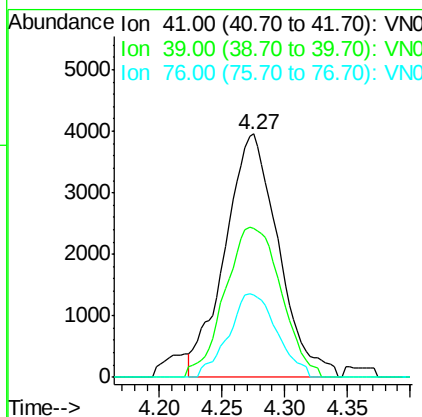
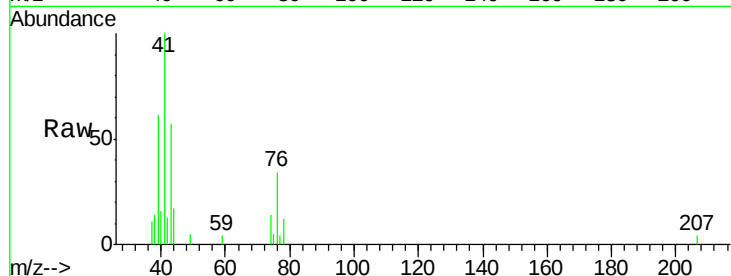




#17
Allvl chloride
Concen: 2.444 ug/l
RT: 4.27 min Scan# 778
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

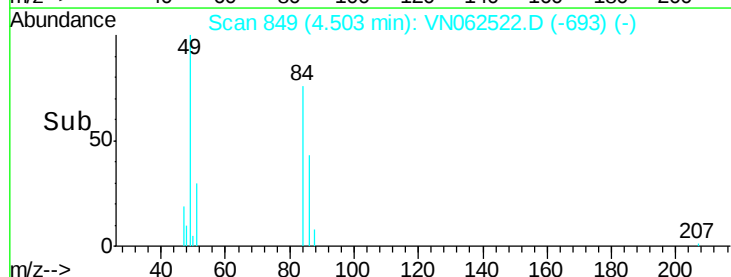
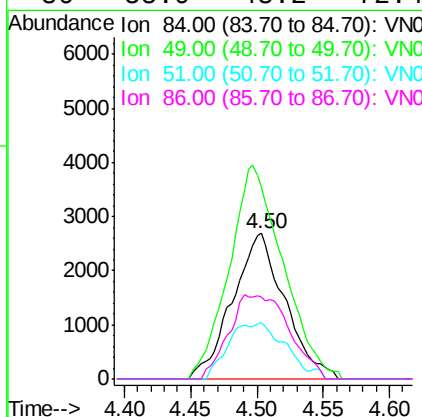
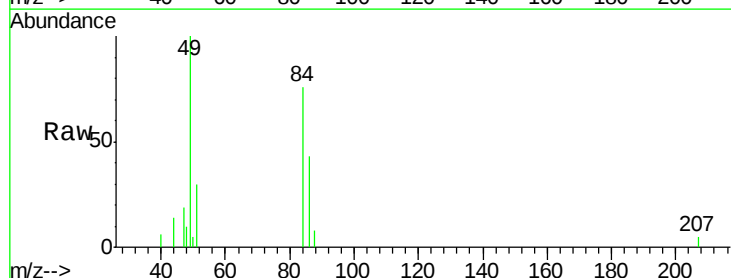
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

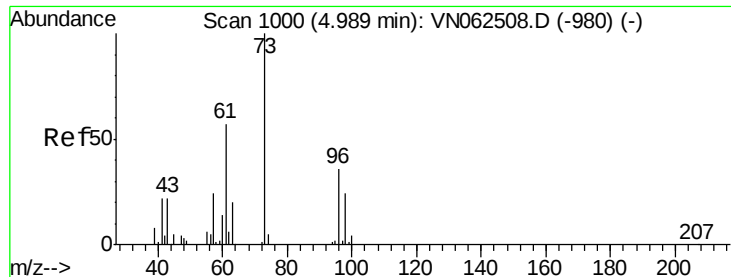
Tot Ion: 41 Resp: 11703
Ion Ratio Lower Upper
41 100
39 61.0 31.9 95.5
76 34.0 16.6 49.8



#18
Methylene Chloride
Concen: 2.676 ug/l
RT: 4.50 min Scan# 849
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion: 84 Resp: 7412
Ion Ratio Lower Upper
84 100
49 131.3 112.1 168.1
51 38.8 33.0 49.4
86 55.9 48.2 72.4

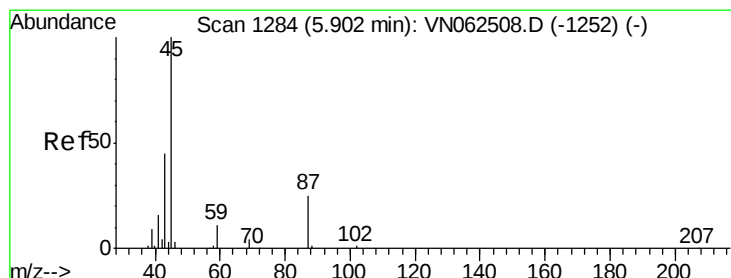
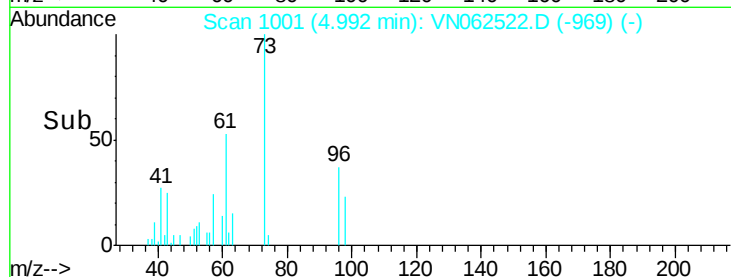
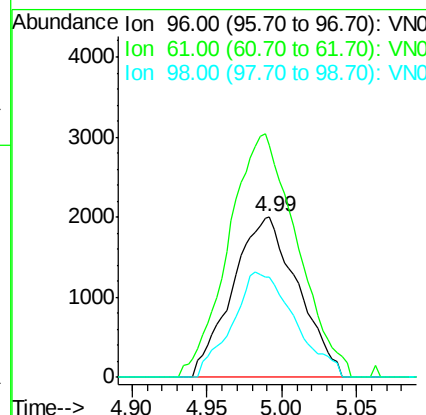
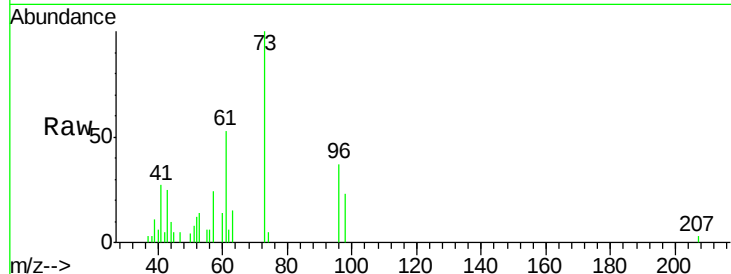




#19
trans-1,2-Dichloroethene
Concen: 2.445 ug/l
RT: 4.99 min Scan# 1001
Delta R.T. 0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

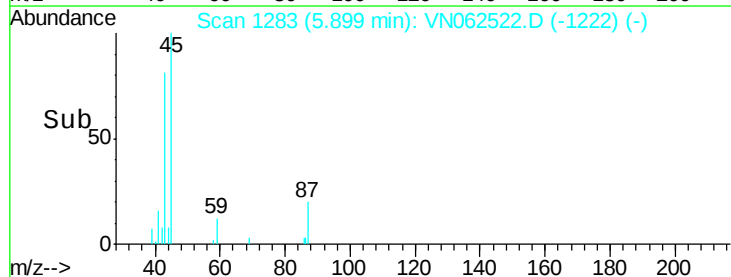
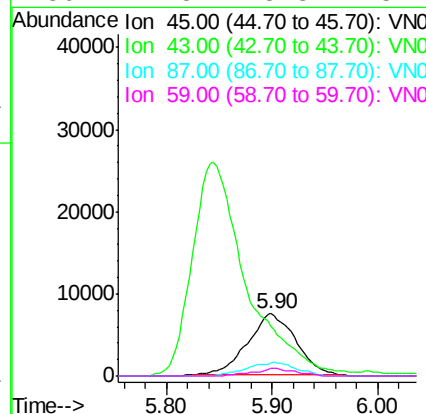
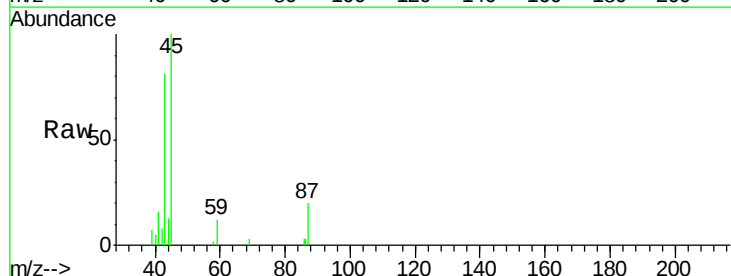
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

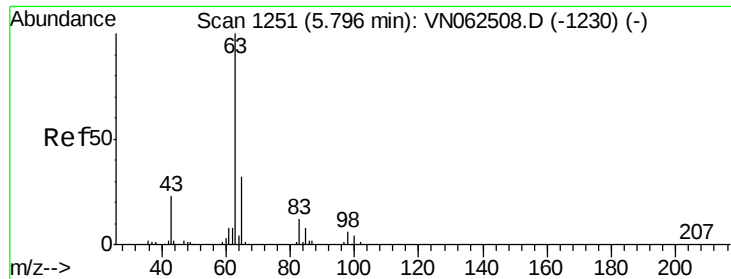
Tot Ion: 96 Resp: 6092
Ion Ratio Lower Upper
96 100
61 132.8 125.7 188.5
98 62.0 54.1 81.1



#20
Diisopropyl ether
Concen: 2.357 ug/l
RT: 5.90 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion: 45 Resp: 23197
Ion Ratio Lower Upper
45 100
43 74.6 51.3 76.9
87 20.9 19.8 29.6
59 11.8 8.8 13.2

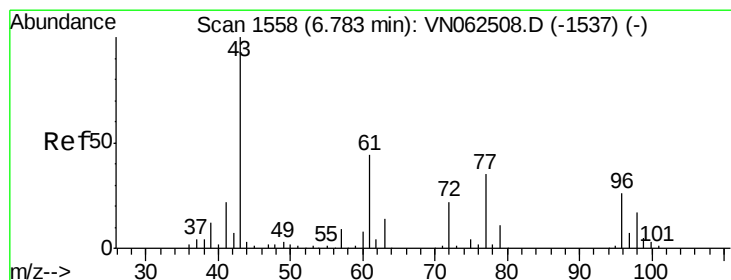
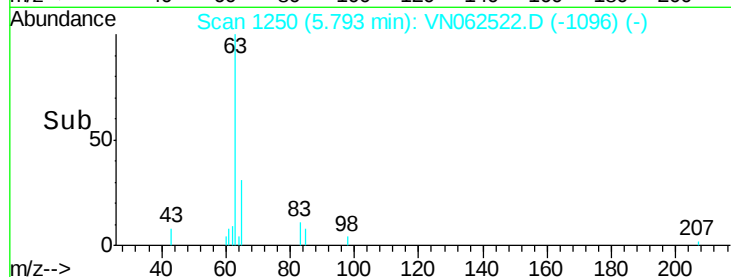
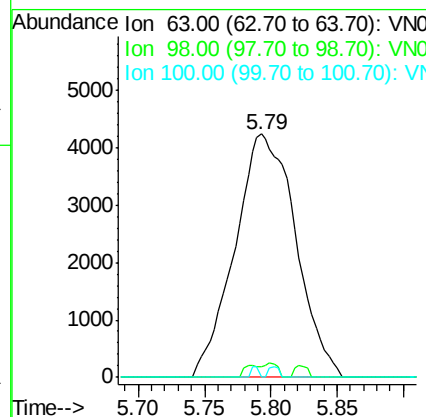
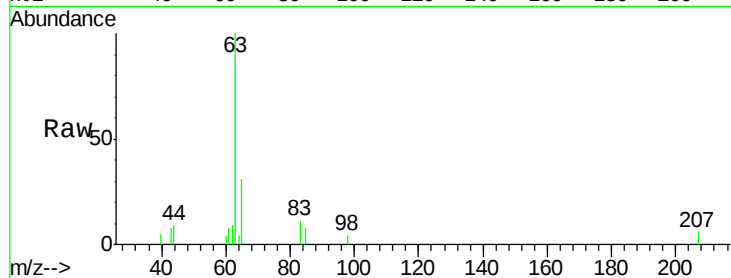




#21
 1,1-Dichloroethane
 Concen: 2.608 ug/l
 RT: 5.79 min Scan# 1250
 Delta R.T. -0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

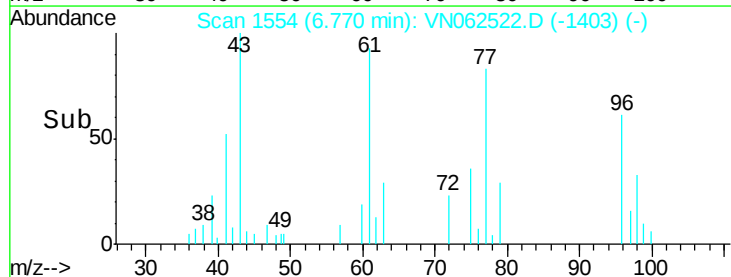
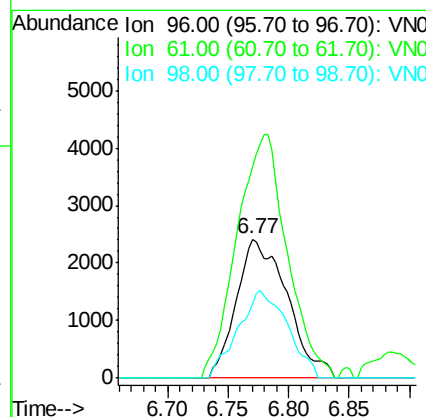
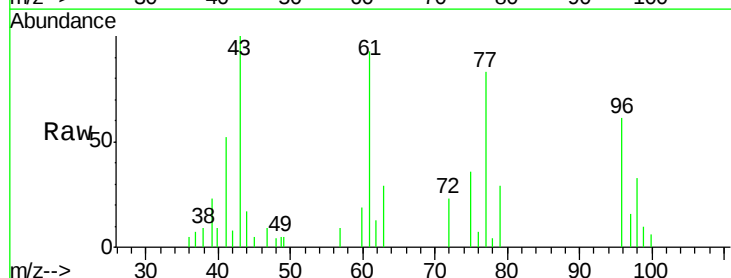
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020

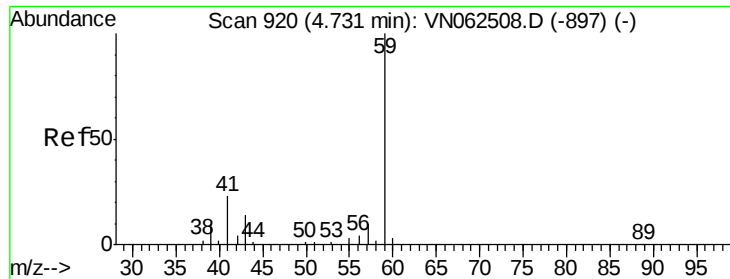
Tot Ion: 63 Resp: 13573
 Ion Ratio Lower Upper
 63 100
 98 4.2 2.8 8.4
 100 0.0 2.0 5.8#



#22
 cis-1,2-Dichloroethene
 Concen: 2.521 ug/l m
 RT: 6.77 min Scan# 1554
 Delta R.T. -0.01 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

Tgt Ion: 96 Resp: 7085
 Ion Ratio Lower Upper
 96 100
 61 172.9 134.9 202.3
 98 61.1 51.5 77.3

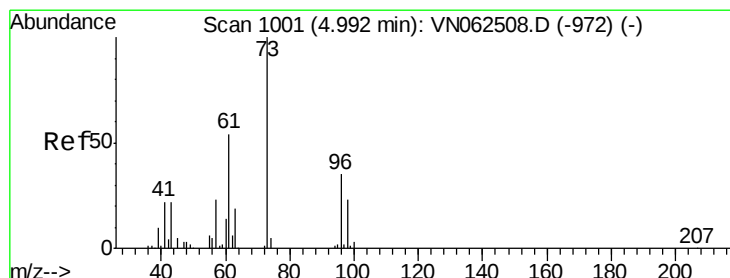
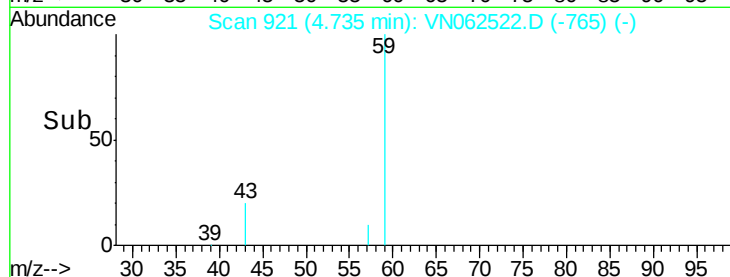
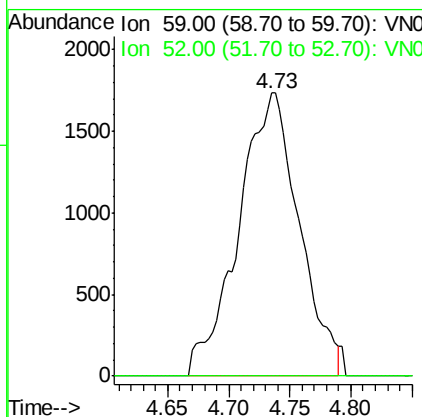
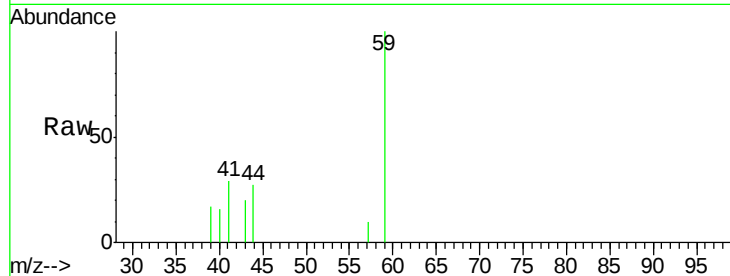




#23
 tert-Butyl Alcohol
 Concen: 12.768 ug/l
 RT: 4.73 min Scan# 921
 Delta R.T. 0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

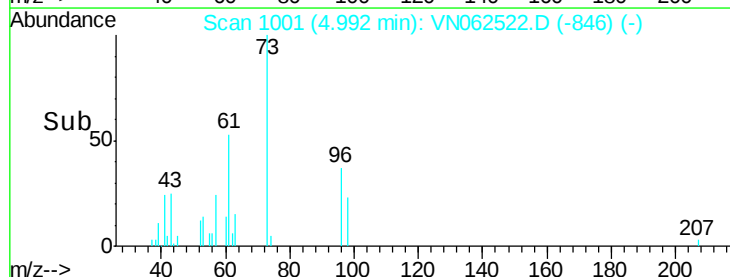
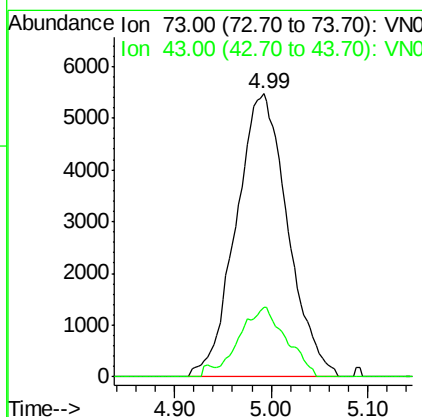
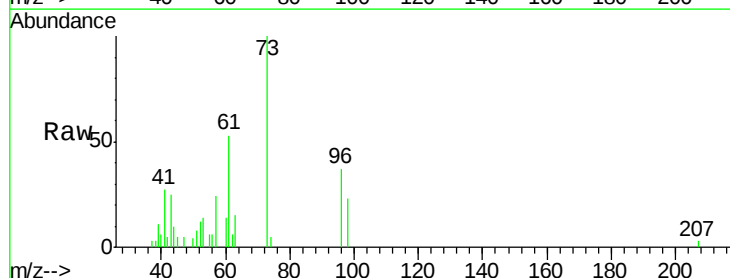
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020

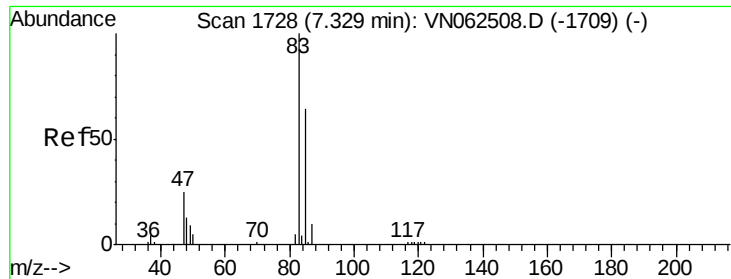
Tot Ion: 59 Resp: 6000
 Ion Ratio Lower Upper
 59 100
 52 213.7 0.0 0.0#



#24
 Methyl tert-Butyl Ether
 Concen: 2.447 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. -0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

Tgt Ion: 73 Resp: 20307
 Ion Ratio Lower Upper
 73 100
 43 5.0 16.9 25.3#





#25

Chloroform

Concen: 2.465 ug/l

RT: 7.33 min Scan# 1728

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

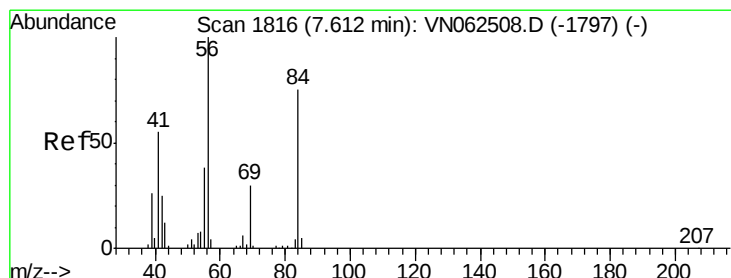
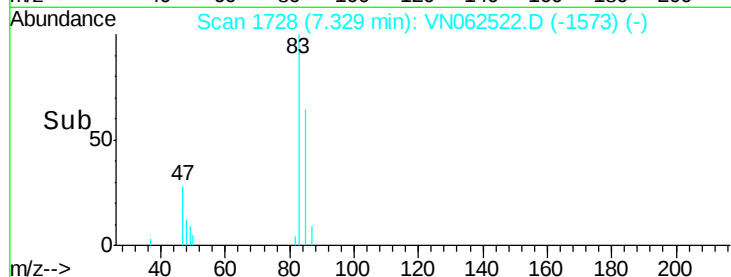
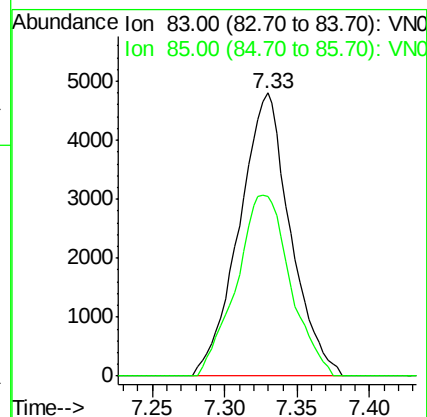
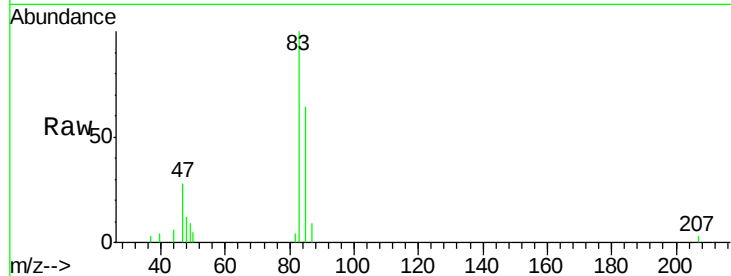
MDL-WATER-03-QT3-2020

Tot Ion: 83 Resp: 11763

Ion Ratio Lower Upper

83 100

85 63.5 51.0 76.4



#26

Cyclohexane

Concen: 2.303 ug/l

RT: 7.61 min Scan# 1815

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

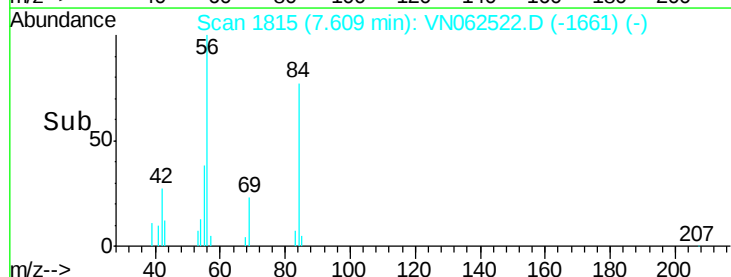
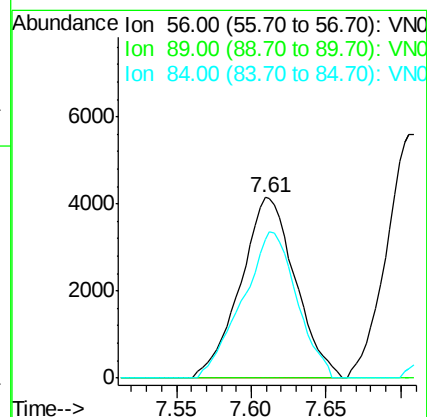
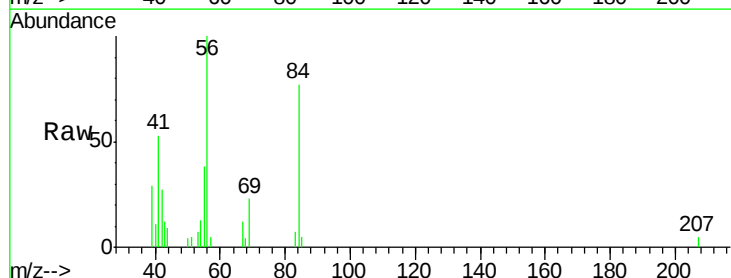
Tgt Ion: 56 Resp: 10560

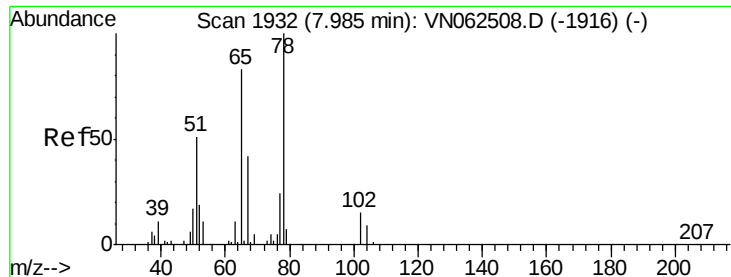
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 80.0 61.1 91.7





#27

1,2-Dichloroethane-d4

Concen: 30.390 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

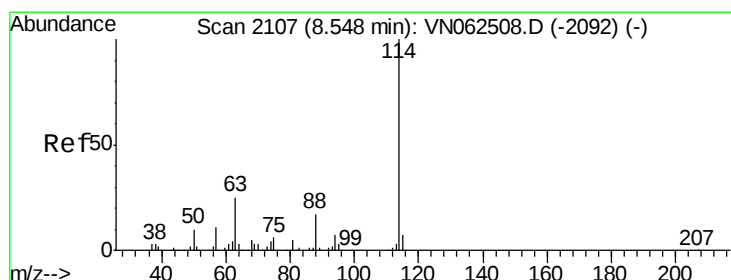
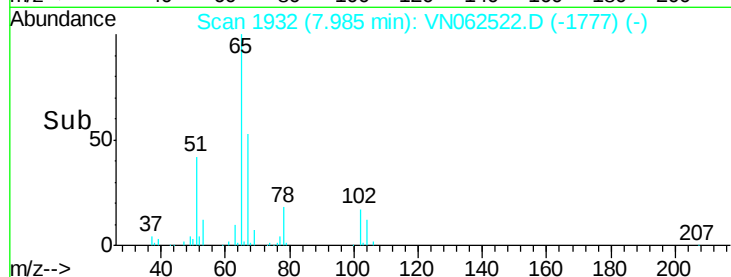
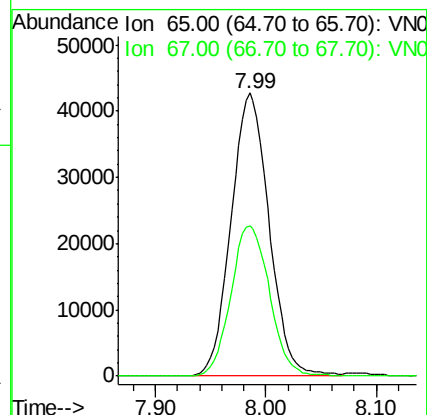
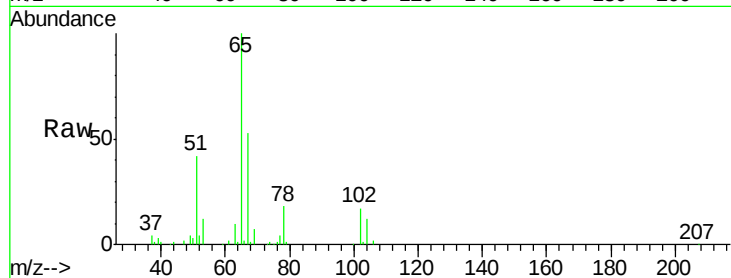
MDL-WATER-03-QT3-2020

Tot Ion: 65 Resp: 102058

Ion Ratio Lower Upper

65 100

67 53.8 41.7 62.5



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2107

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

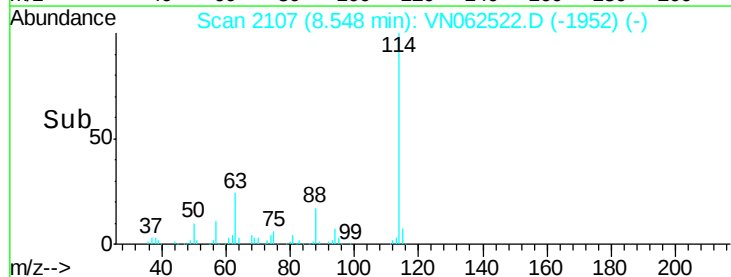
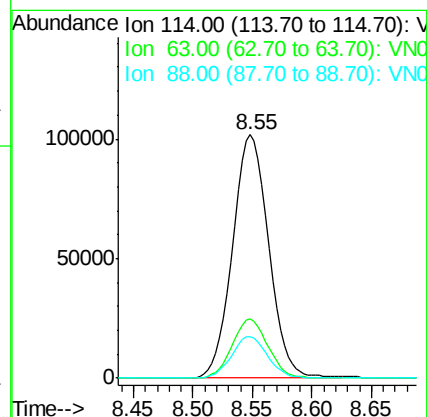
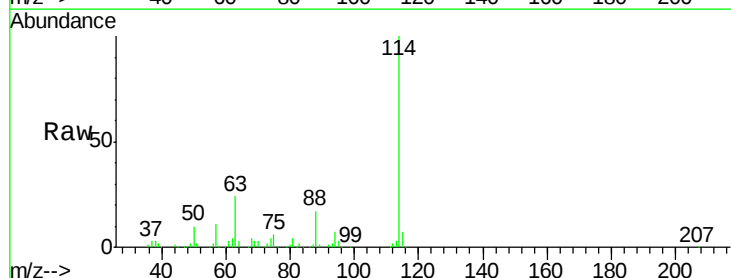
Tgt Ion: 114 Resp: 214555

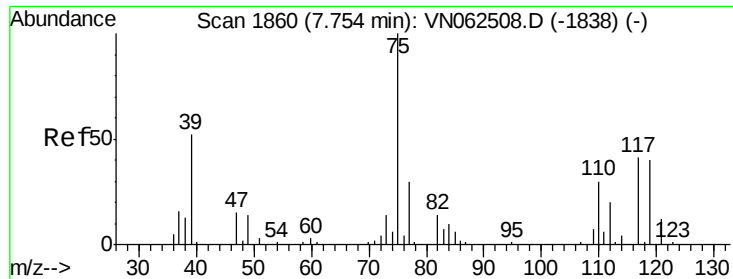
Ion Ratio Lower Upper

114 100

63 24.1 19.4 29.0

88 17.1 13.5 20.3

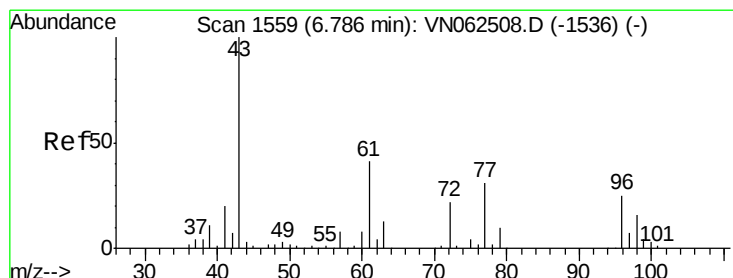
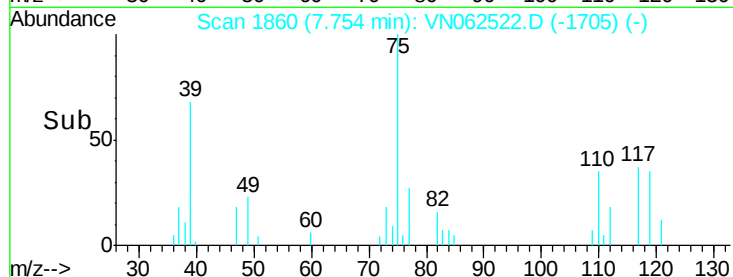
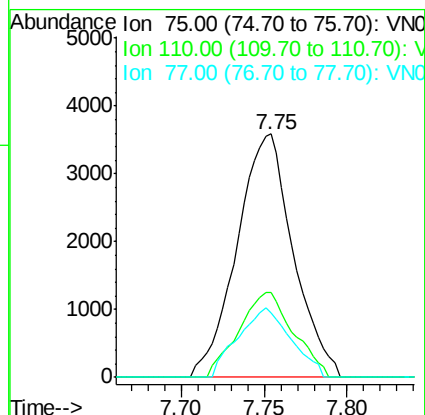
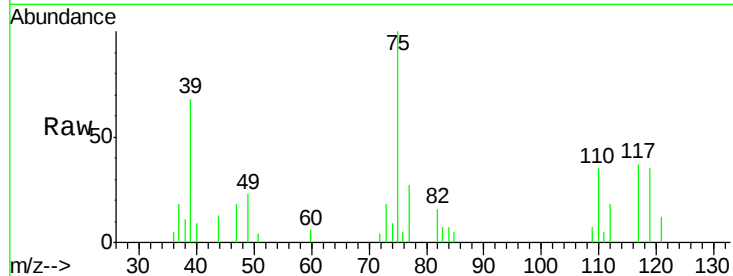




#29
 1,1-Dichloropropene
 Concen: 2.332 ug/l
 RT: 7.75 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

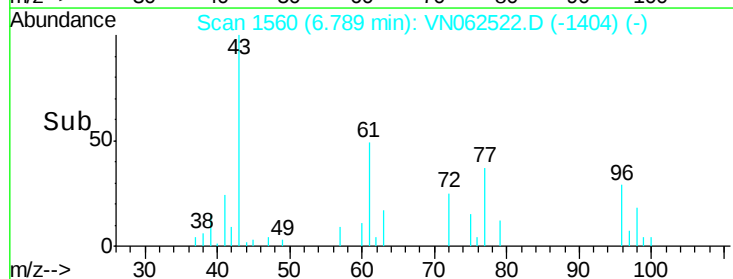
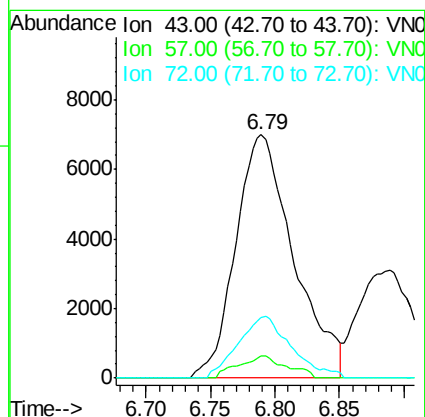
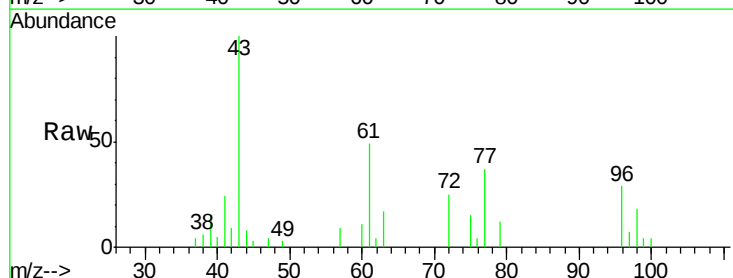
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020

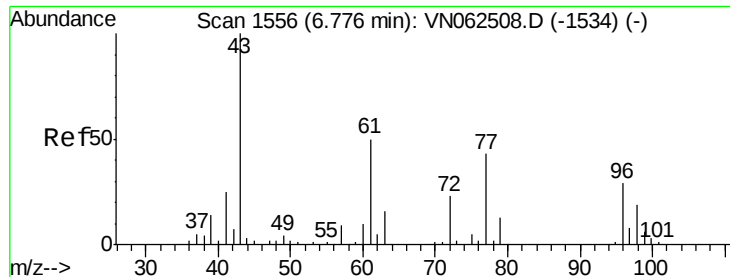
Tot Ion: 75 Resp: 8488
 Ion Ratio Lower Upper
 75 100
 110 33.7 0.0 62.4
 77 26.8 0.0 62.8



#30
 2-Butanone
 Concen: 11.330 ug/l
 RT: 6.79 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

Tgt Ion: 43 Resp: 21868
 Ion Ratio Lower Upper
 43 100
 57 6.7 6.6 9.8
 72 22.3 18.5 27.7





#31

2,2-Dichloropropane

Concen: 2.550 ug/l

RT: 6.77 min Scan# 1554

Delta R.T. -0.01 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

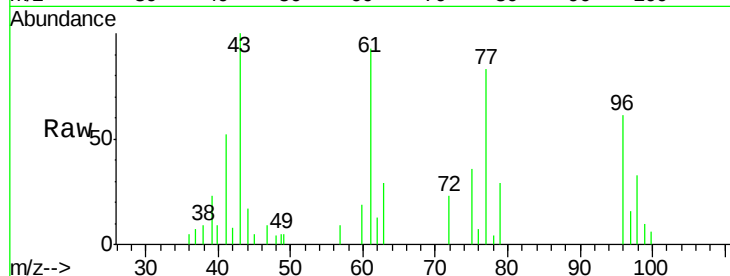
MDL-WATER-03-QT3-2020

Tot Ion: 77 Resp: 10465

Ion Ratio Lower Upper

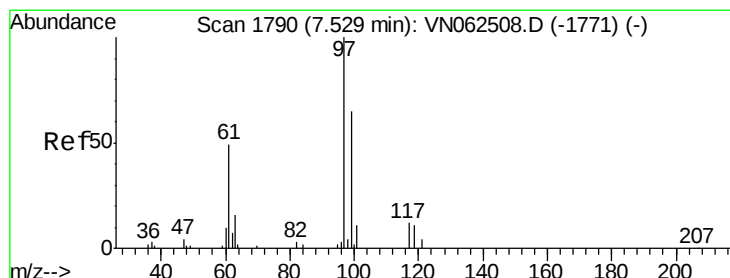
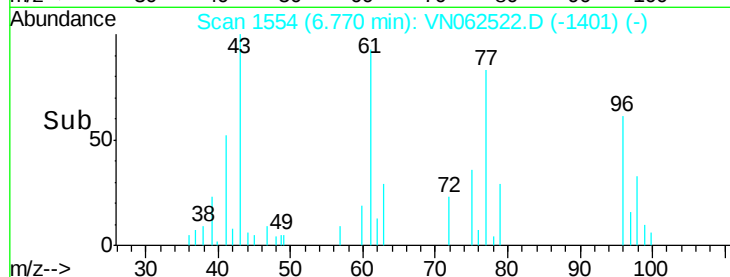
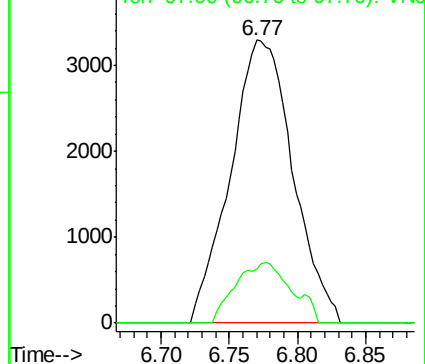
77 100

97 7.0 8.6 12.8#



Abundance Ion 77.00 (76.70 to 77.70): VN0

Ion 97.00 (96.70 to 97.70): VN0



#32

1,1,1-Trichloroethane

Concen: 2.614 ug/l

RT: 7.53 min Scan# 1790

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

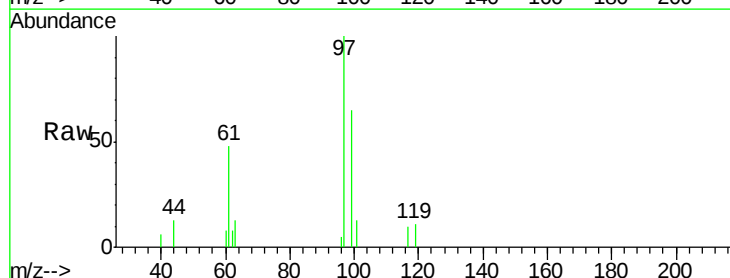
Tgt Ion: 97 Resp: 10225

Ion Ratio Lower Upper

97 100

99 67.4 51.8 77.8

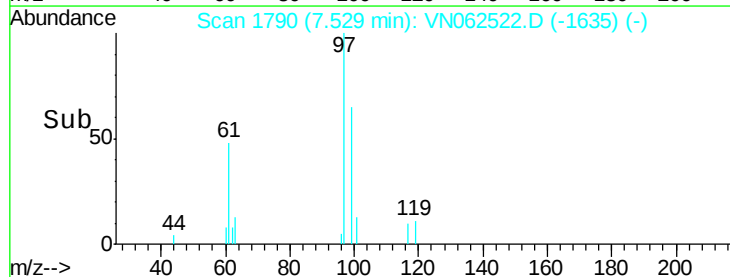
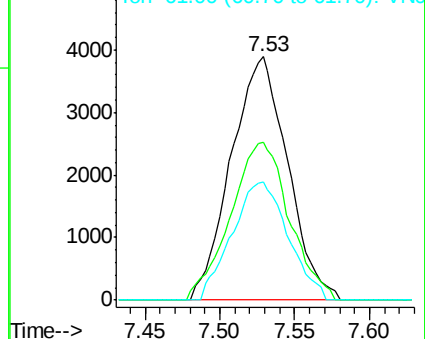
61 48.0 39.4 59.0

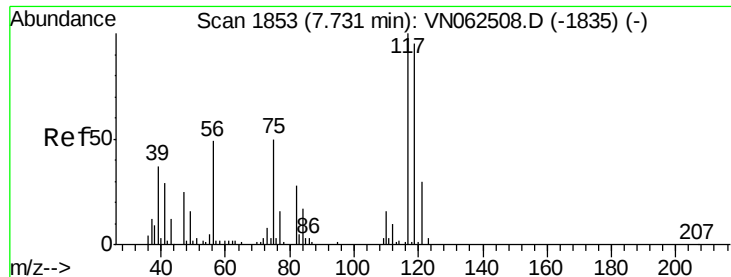


Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 99.00 (98.70 to 99.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

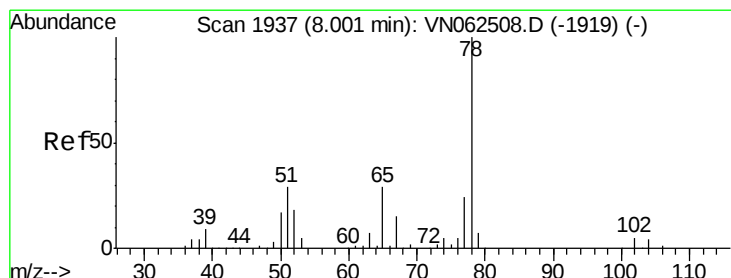
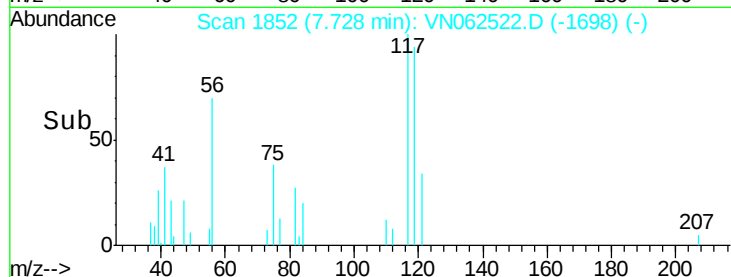
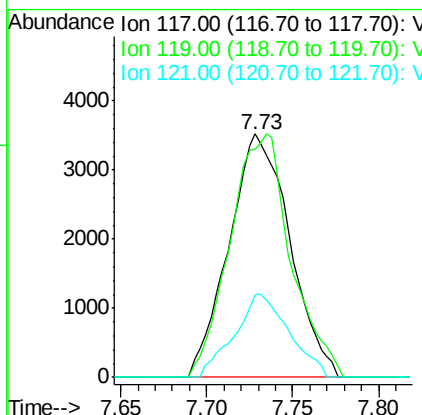
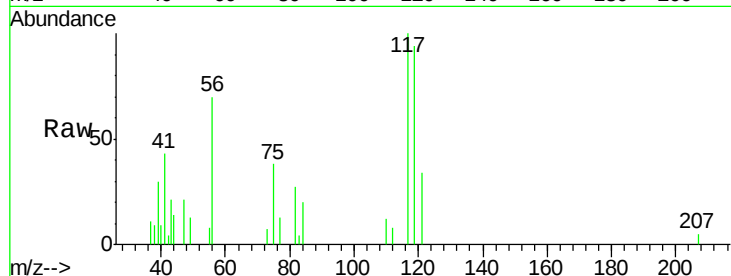




#33
Carbon Tetrachloride
Concen: 2.562 ug/l
RT: 7.73 min Scan# 1852
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

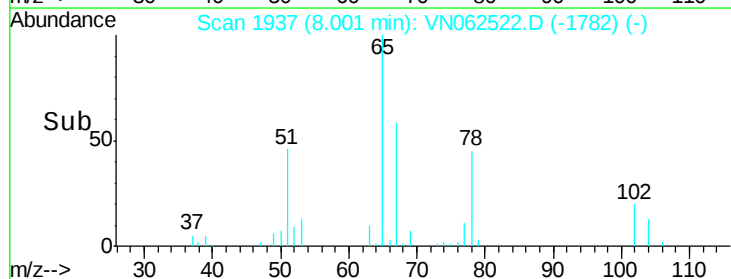
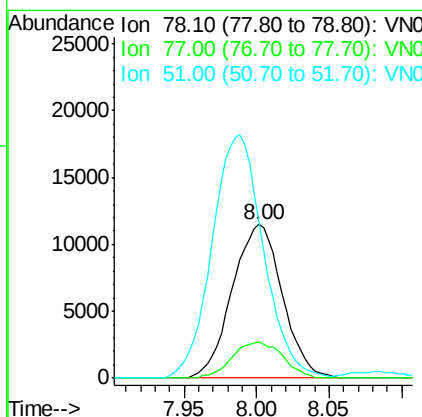
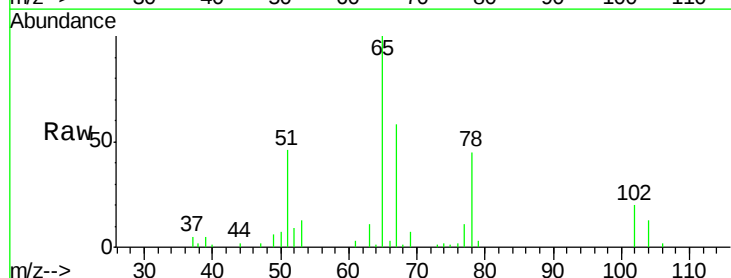
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

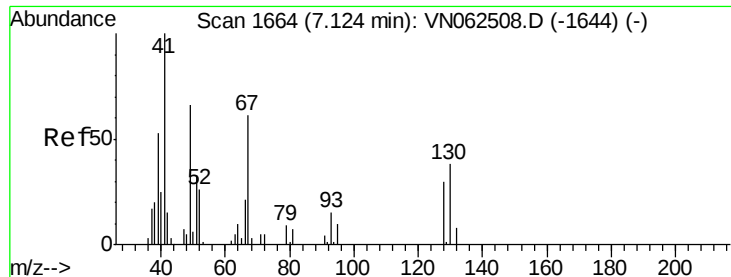
Tot Ion:117 Resp: 8688
Ion Ratio Lower Upper
117 100
119 93.9 76.2 114.4
121 33.8 23.8 35.6



#34
Benzene
Concen: 2.552 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion: 78 Resp: 27589
Ion Ratio Lower Upper
78 100
77 23.6 18.9 28.3
51 100.0 23.1 34.7#

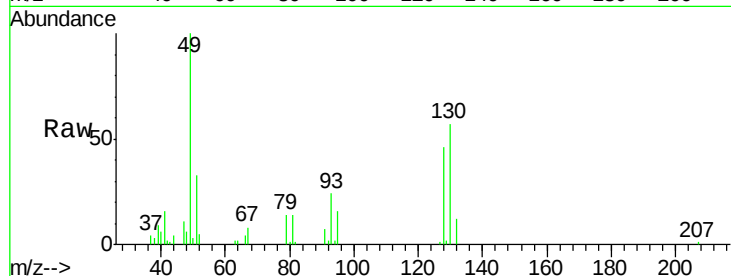




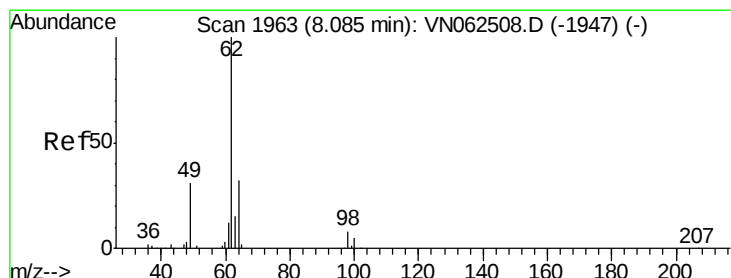
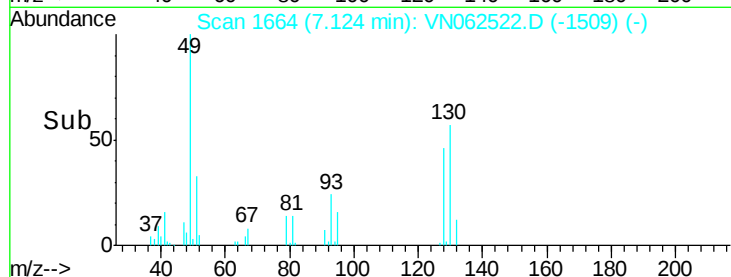
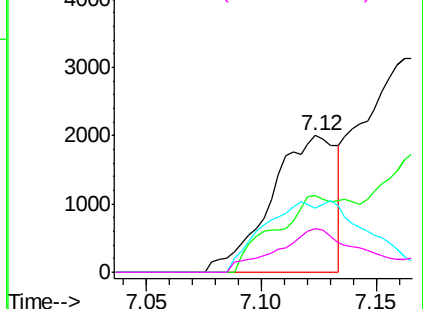
#35
Methacrylonitrile
Concen: 2.333 ug/l m
RT: 7.12 min Scan# 1664
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion:	41	Resp:	3955
Ion	Ratio	Lower	Upper
41	100		
39	56.2	26.5	79.5
67	47.3	30.7	92.1
52	31.6	13.0	39.0

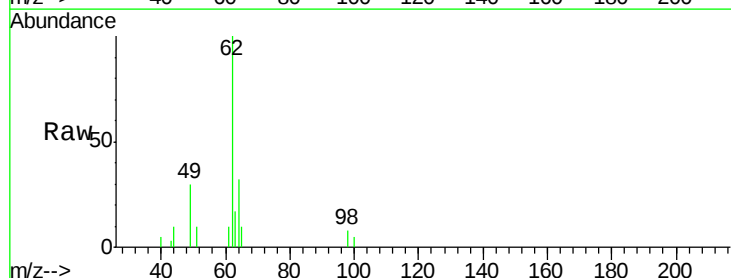


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

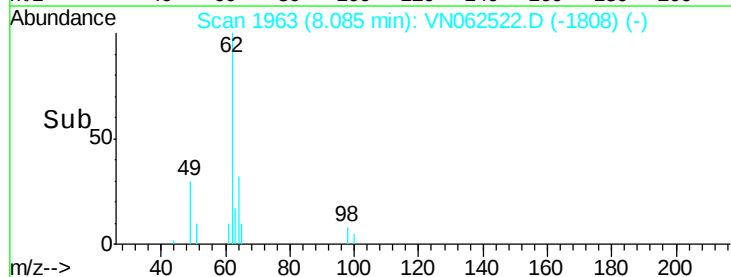
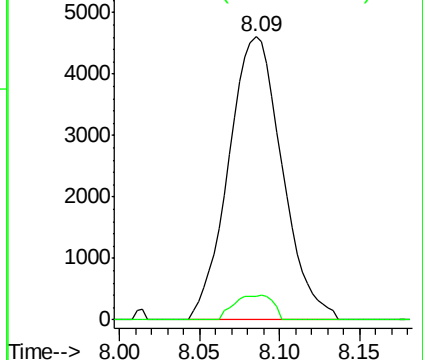


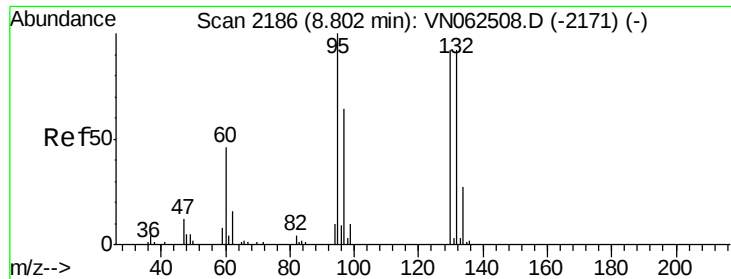
#36
1,2-Dichloroethane
Concen: 2.725 ug/l
RT: 8.09 min Scan# 1963
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion:	62	Resp:	10591
Ion	Ratio	Lower	Upper
62	100		
98	3.9	6.6	9.8#



Abundance Ion 62.00 (61.70 to 62.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

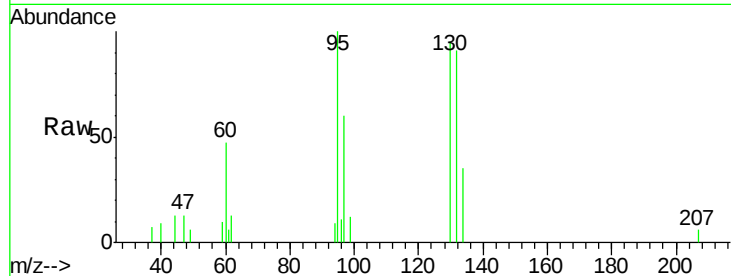




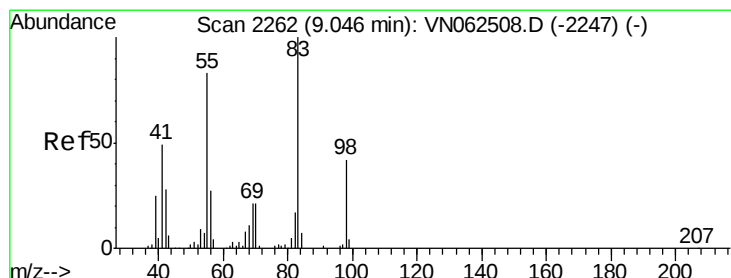
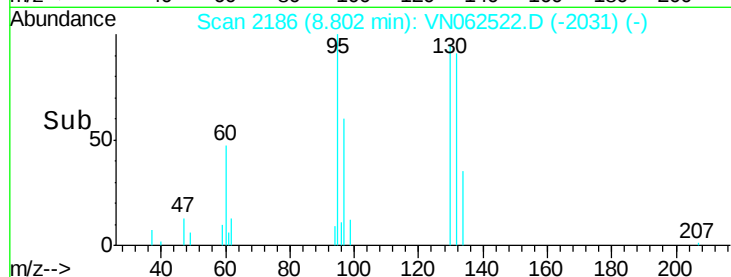
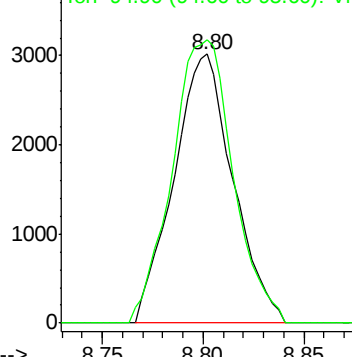
#37
 Trichloroethene
 Concen: 2.546 ug/l
 RT: 8.80 min Scan# 2186
 Delta R.T. -0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020

Tot Ion:130 Resp: 6183
 Ion Ratio Lower Upper
 130 100
 95 105.3 86.5 129.7

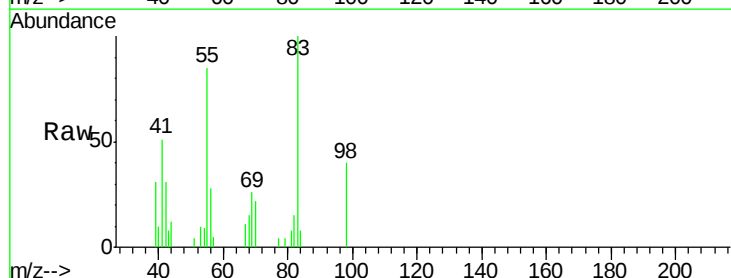


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN0

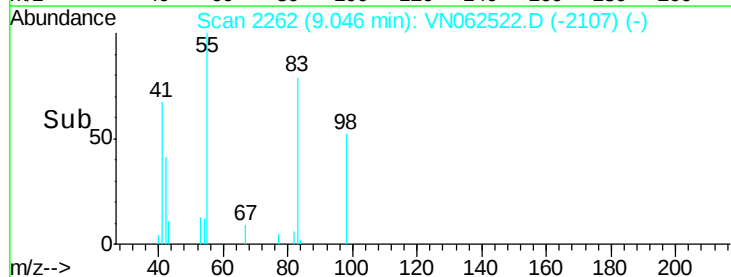
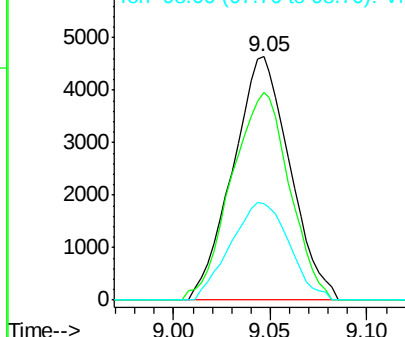


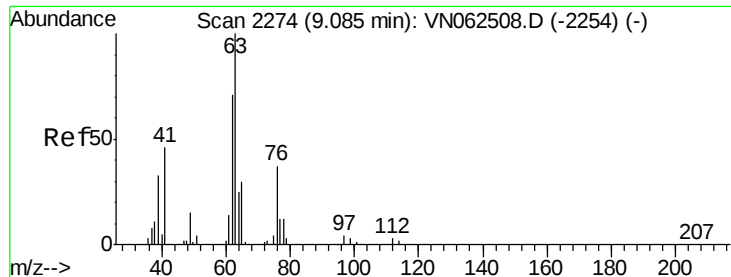
#38
 Methylcyclohexane
 Concen: 2.334 ug/l
 RT: 9.05 min Scan# 2262
 Delta R.T. -0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

Tgt Ion: 83 Resp: 9529
 Ion Ratio Lower Upper
 83 100
 55 86.5 42.8 128.3
 98 41.2 21.9 65.7



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

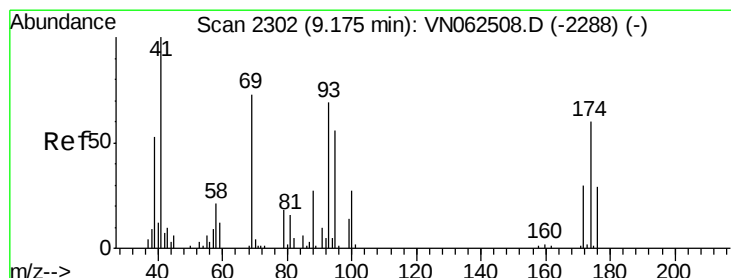
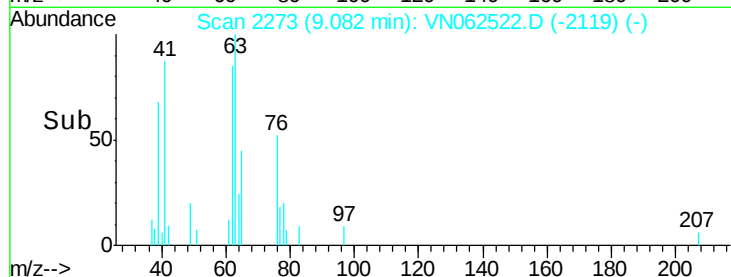
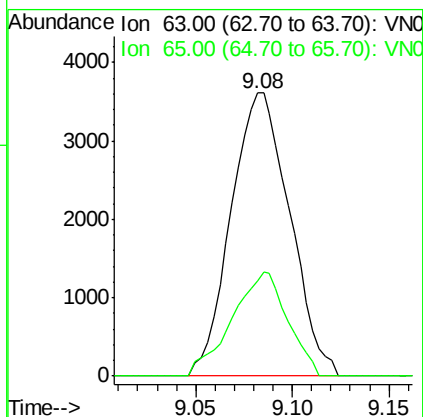
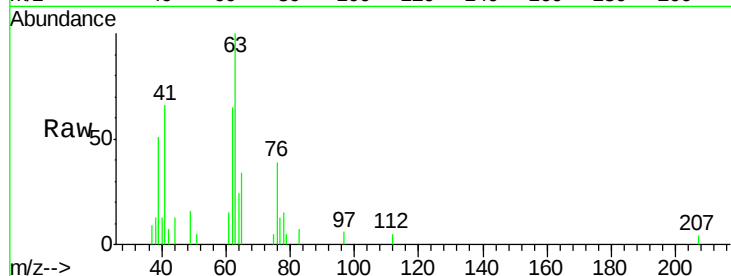




#39
 1,2-Dichloropropane
 Concen: 2.478 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. -0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

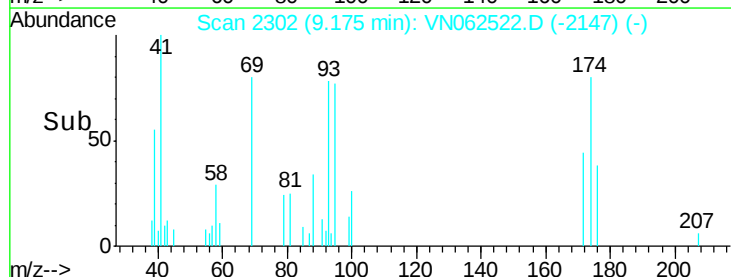
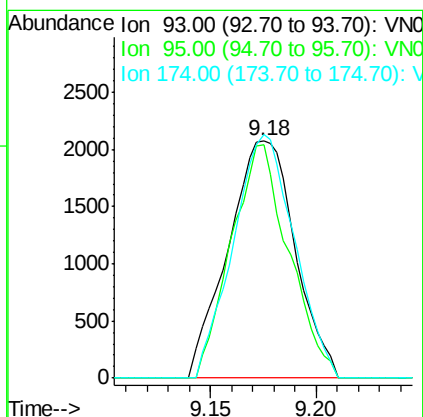
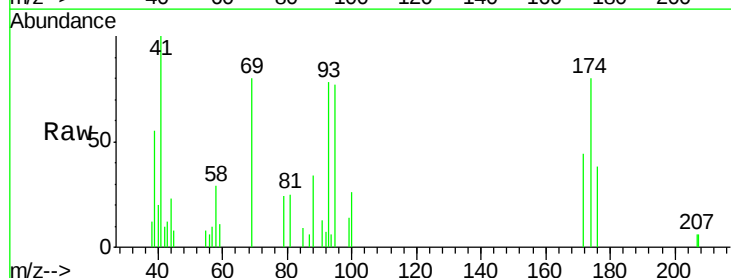
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020

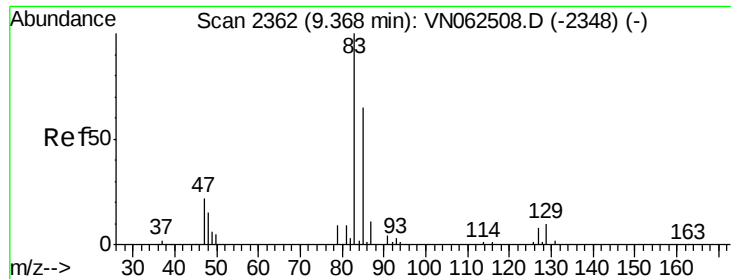
Tot Ion: 63 Resp: 7633
 Ion Ratio Lower Upper
 63 100
 65 33.9 24.2 36.4



#40
 Dibromomethane
 Concen: 2.582 ug/l
 RT: 9.18 min Scan# 2302
 Delta R.T. -0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

Tgt Ion: 93 Resp: 4584
 Ion Ratio Lower Upper
 93 100
 95 84.7 0.0 161.2
 174 93.4 0.0 178.0





#41

Bromodichloromethane

Concen: 2.498 ug/l

RT: 9.37 min Scan# 2362

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020

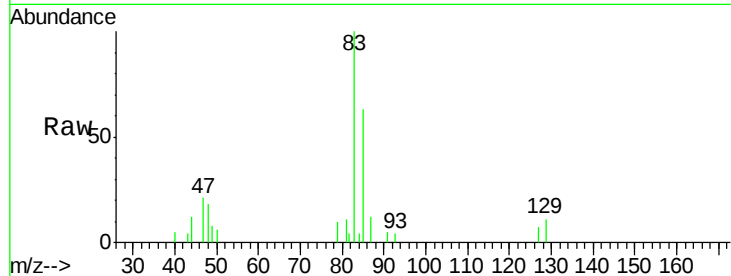
Tot Ion: 83 Resp: 9407

Ion Ratio Lower Upper

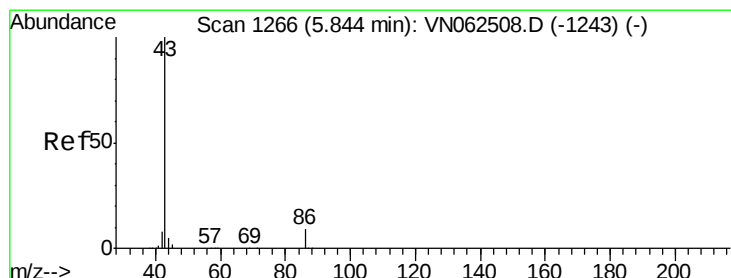
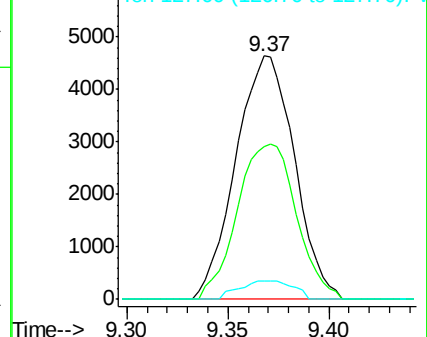
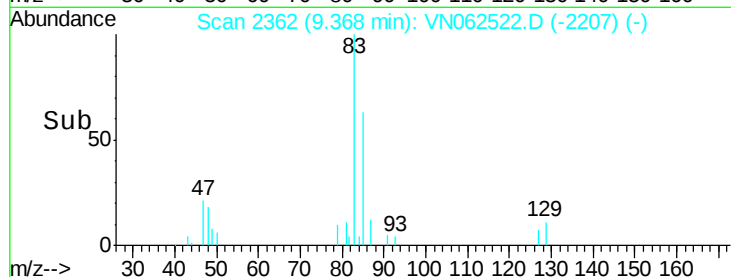
83 100

85 62.7 51.6 77.4

127 7.5 6.3 9.5



Abundance Ion 83.00 (82.70 to 83.70): VN062522.D (-2207) (-)



#42

Vinyl Acetate

Concen: 11.655 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN062522.D

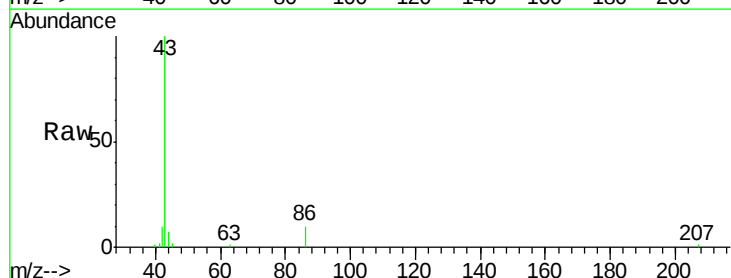
Acq: 14 Jul 2020 11:12

Tgt Ion: 43 Resp: 93475

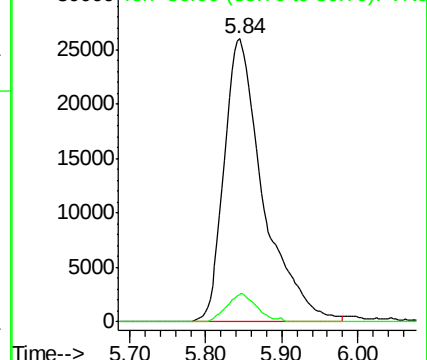
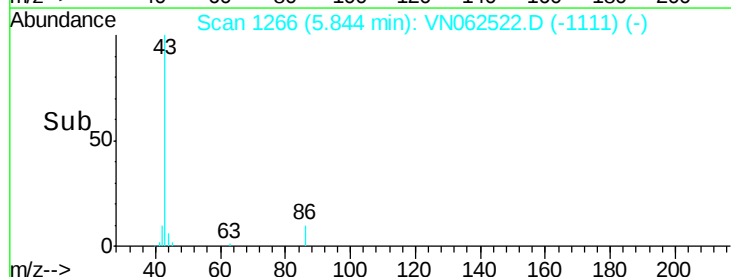
Ion Ratio Lower Upper

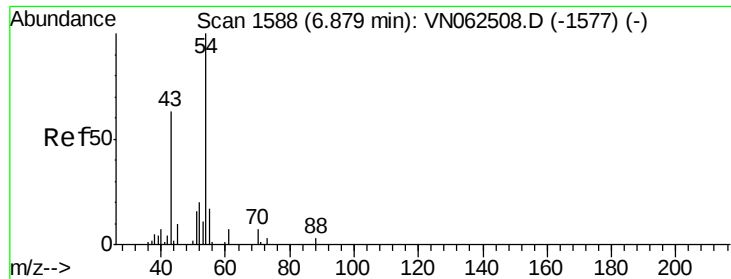
43 100

86 7.5 6.1 9.1



Abundance Ion 43.00 (42.70 to 43.70): VN062522.D (-1111) (-)

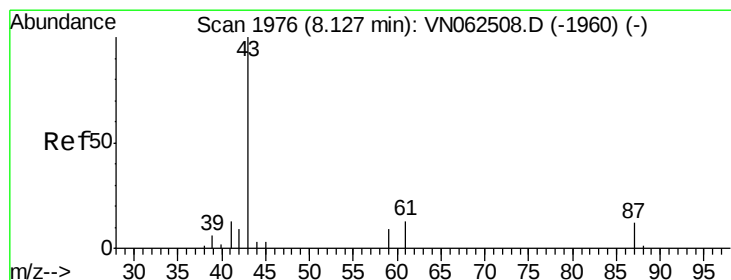
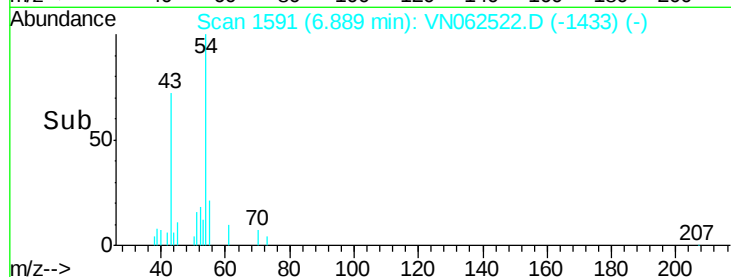
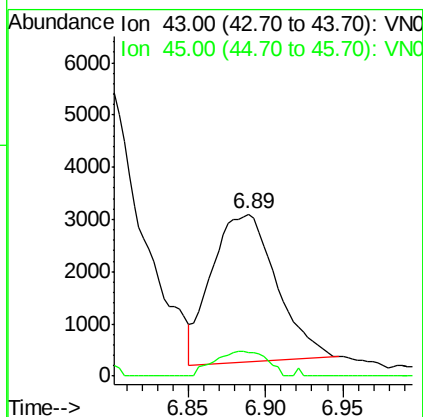
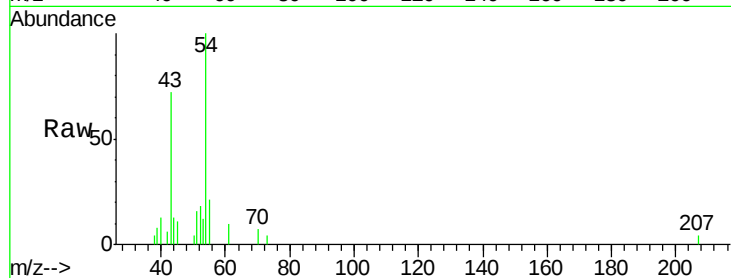




#43
Ethyl Acetate
Concen: 2.135 ug/l
RT: 6.89 min Scan# 1591
Delta R.T. 0.01 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

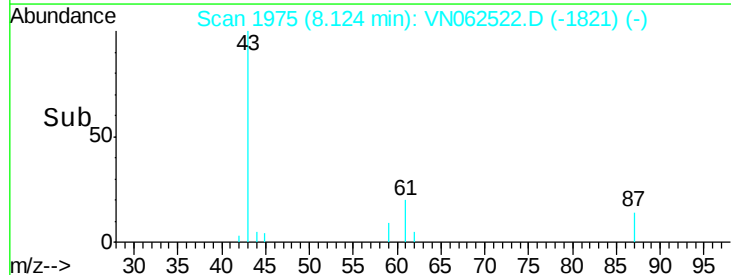
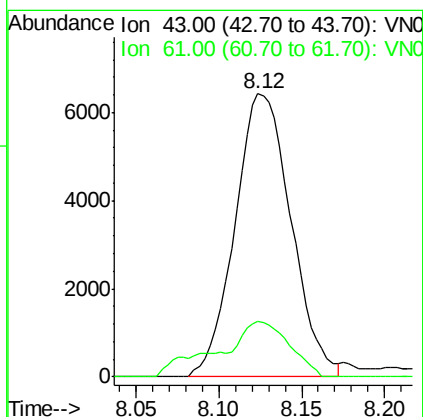
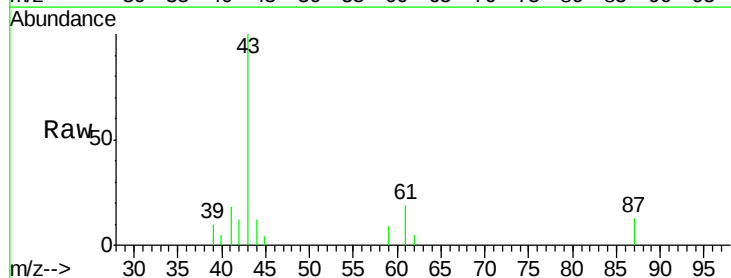
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

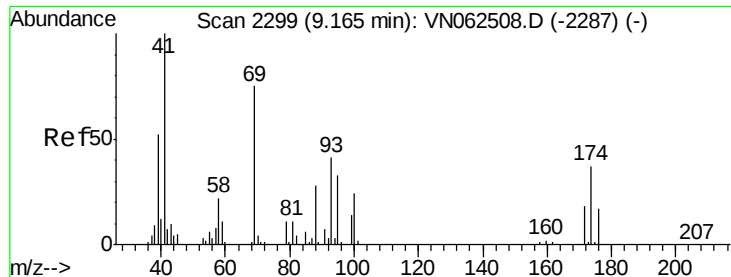
Tot Ion: 43 Resp: 8284
Ion Ratio Lower Upper
43 100
45 13.5 10.2 15.4



#44
Isopropyl Acetate
Concen: 2.321 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion: 43 Resp: 15114
Ion Ratio Lower Upper
43 100
61 17.5 14.7 22.1

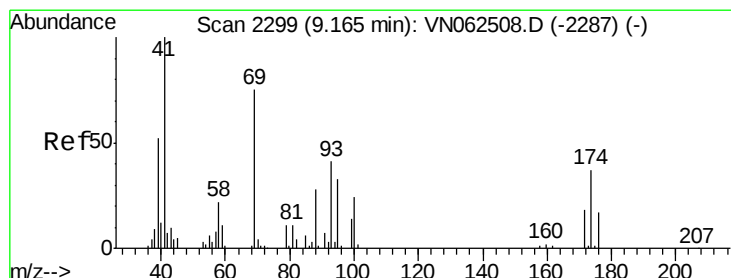
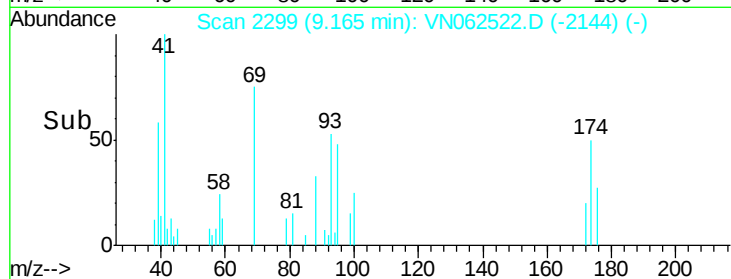
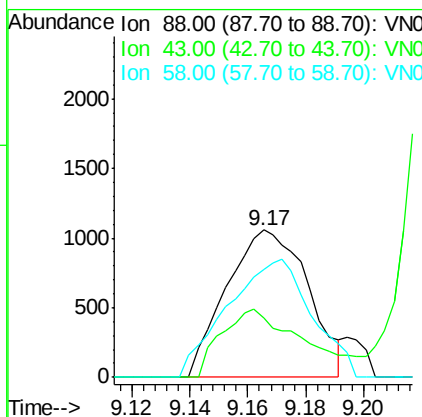
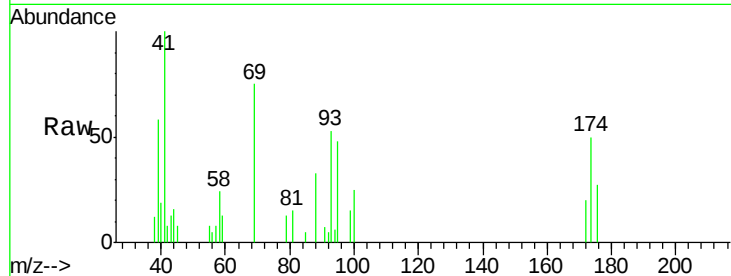




#45
 1,4-Dioxane
 Concen: 46.389 ug/l
 RT: 9.17 min Scan# 2299
 Delta R.T. -0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

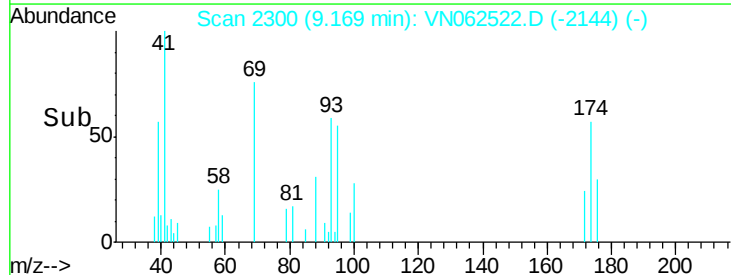
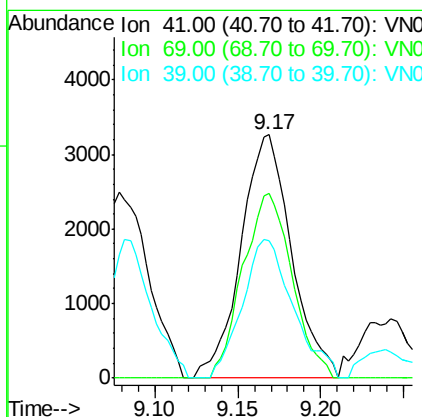
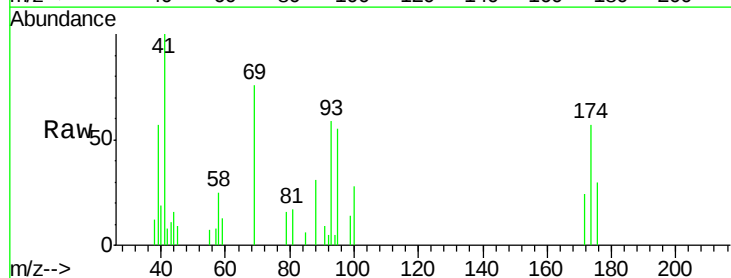
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020

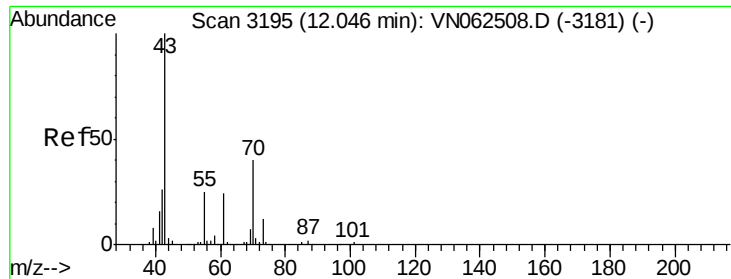
Tot Ion: 88 Resp: 2066
 Ion Ratio Lower Upper
 88 100
 43 47.1 29.2 43.8#
 58 83.0 62.2 93.4



#46
 Methyl methacrylate
 Concen: 2.244 ug/l
 RT: 9.17 min Scan# 2300
 Delta R.T. 0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

Tgt Ion: 41 Resp: 6930
 Ion Ratio Lower Upper
 41 100
 69 76.0 37.4 112.2
 39 56.6 25.9 77.6





#47

n-amvl Acetate

Concen: 1.662 ug/l

RT: 12.05 min Scan# 3195

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

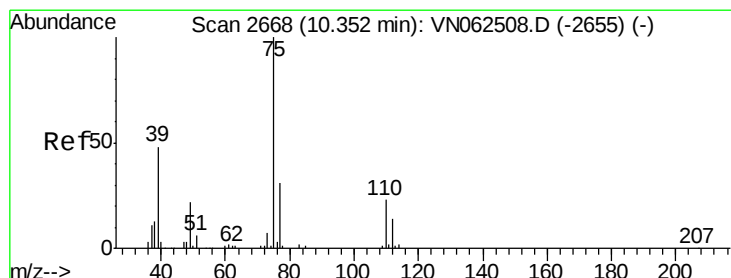
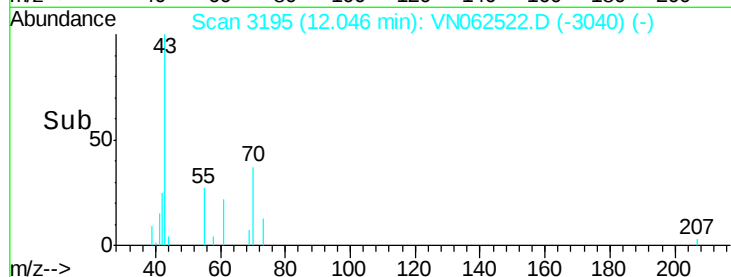
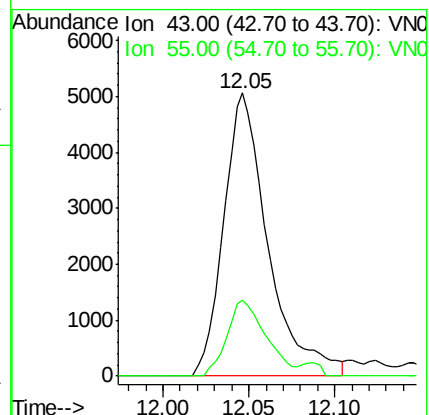
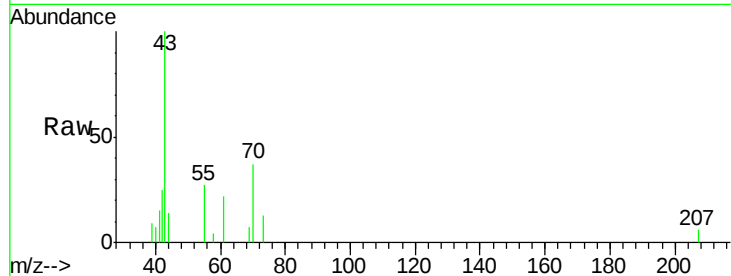
MDL-WATER-03-QT3-2020

Tot Ion: 43 Resp: 9122

Ion Ratio Lower Upper

43 100

55 23.4 20.4 30.6



#48

t-1,3-Dichloropropene

Concen: 2.313 ug/l

RT: 10.35 min Scan# 2668

Delta R.T. -0.00 min

Lab File: VN062522.D

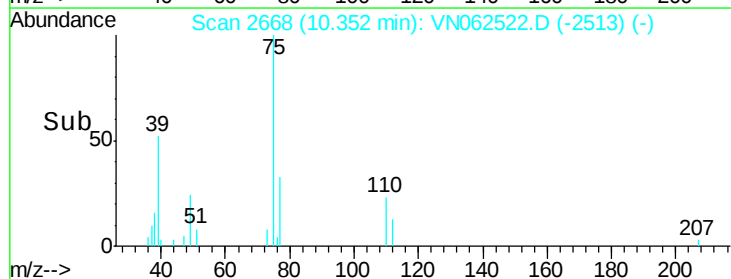
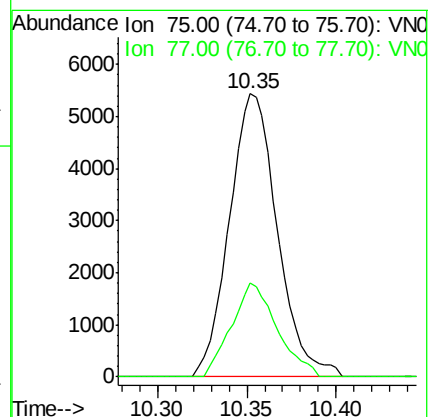
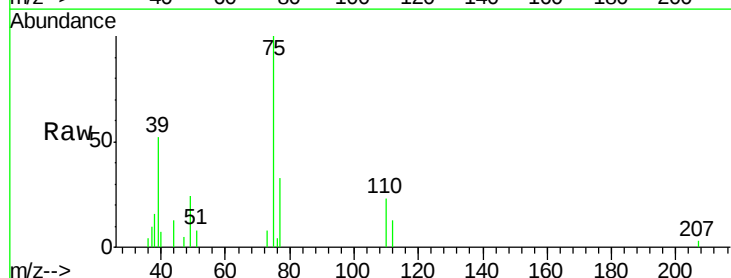
Acq: 14 Jul 2020 11:12

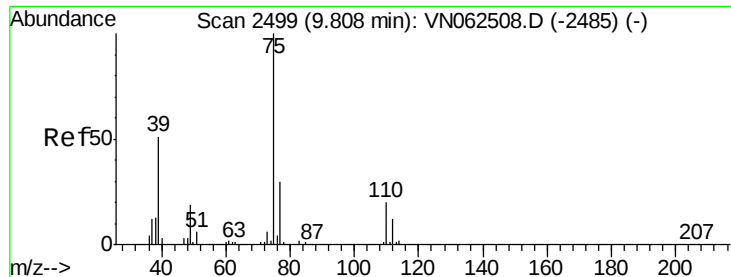
Tgt Ion: 75 Resp: 10158

Ion Ratio Lower Upper

75 100

77 33.2 25.0 37.4





#49

cis-1,3-Dichloropropene

Concen: 2.365 ug/l

RT: 9.81 min Scan# 2499

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020

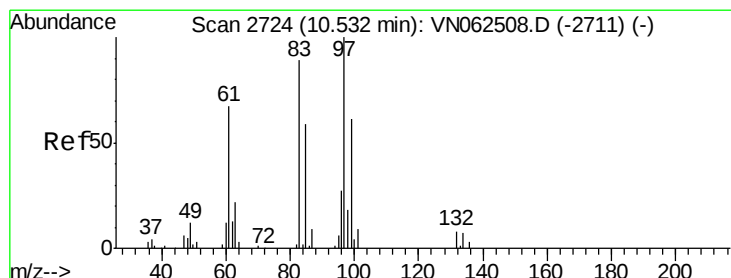
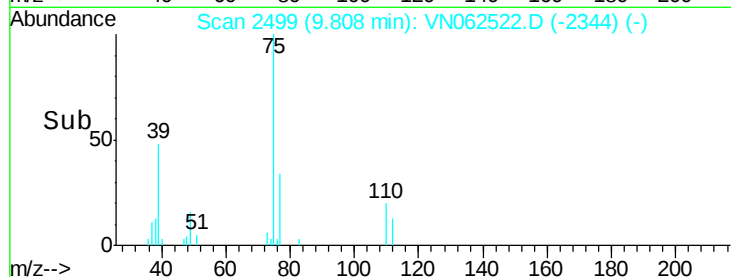
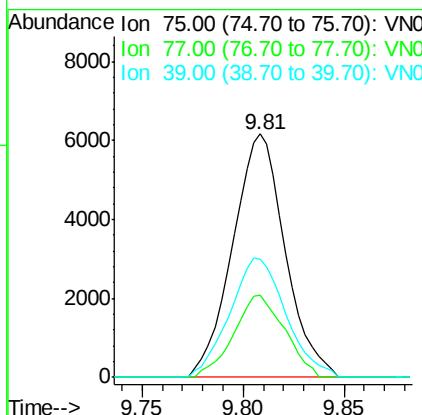
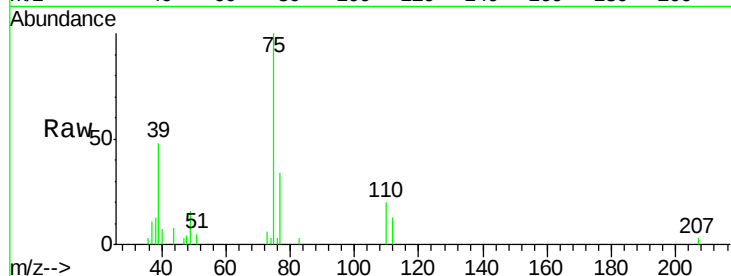
Tot Ion: 75 Resp: 11212

Ion Ratio Lower Upper

75 100

77 34.0 23.7 35.5

39 48.4 40.5 60.7



#50

1,1,2-Trichloroethane

Concen: 2.575 ug/l

RT: 10.53 min Scan# 2724

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Tgt Ion: 97 Resp: 6407

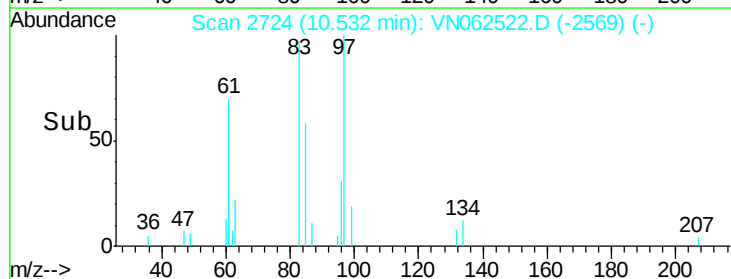
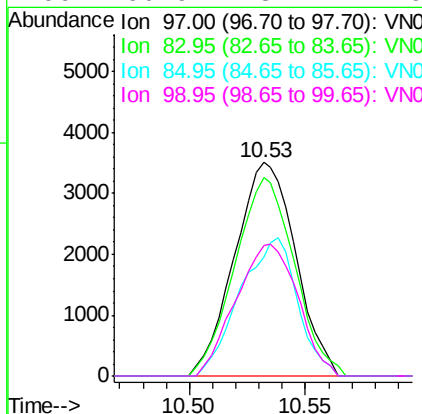
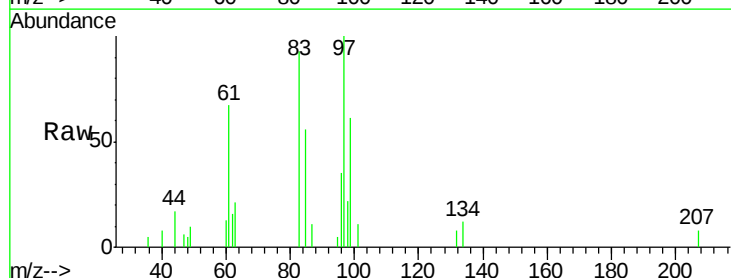
Ion Ratio Lower Upper

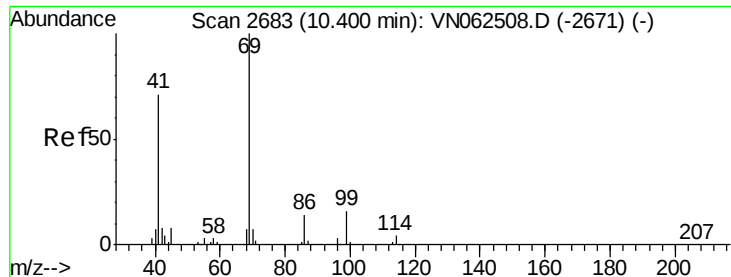
97 100

83 93.2 71.3 106.9

85 55.8 47.2 70.8

99 60.9 48.4 72.6





#51

Ethyl methacrylate

Concen: 2.033 ug/l

RT: 10.40 min Scan# 2683

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020

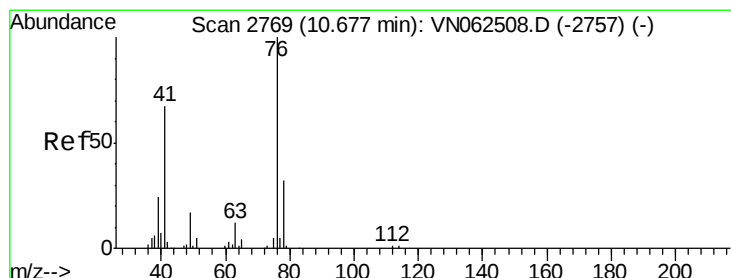
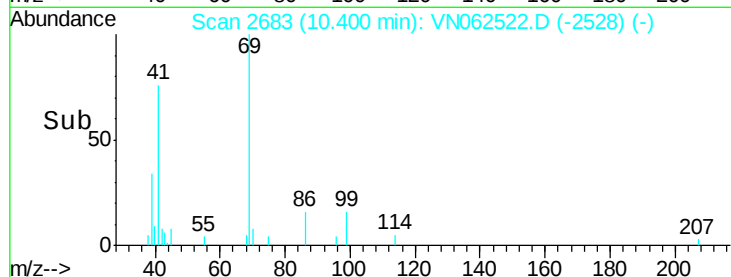
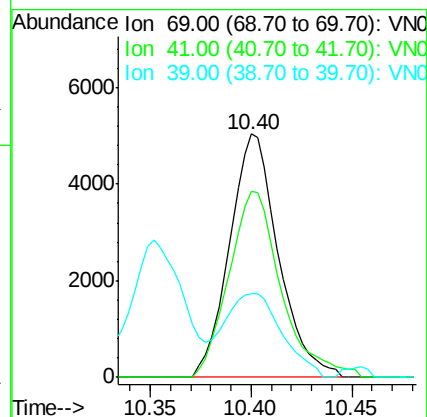
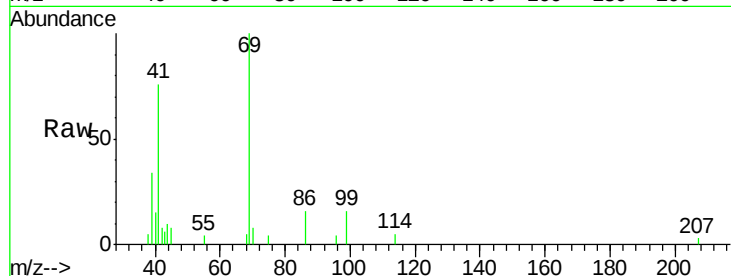
Tot Ion: 69 Resp: 8518

Ion Ratio Lower Upper

69 100

41 76.4 35.6 106.8

39 31.2 17.2 51.5



#52

1,3-Dichloropropane

Concen: 2.595 ug/l

RT: 10.68 min Scan# 2769

Delta R.T. -0.00 min

Lab File: VN062522.D

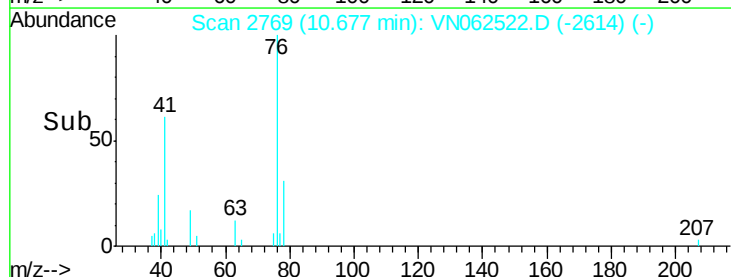
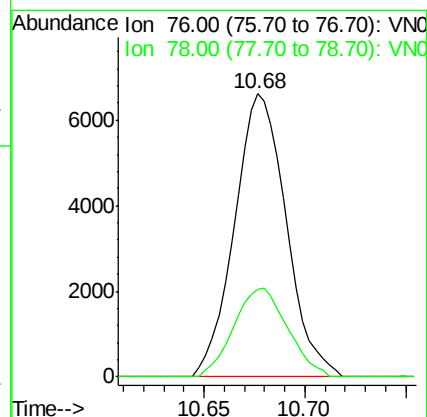
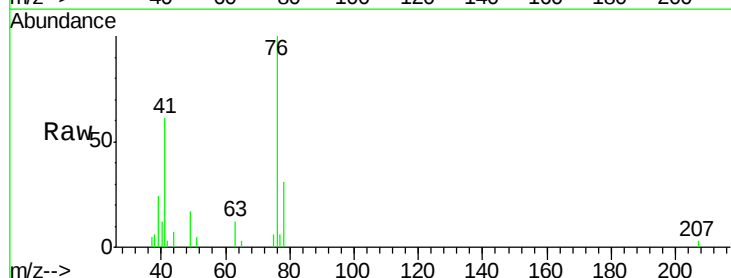
Acq: 14 Jul 2020 11:12

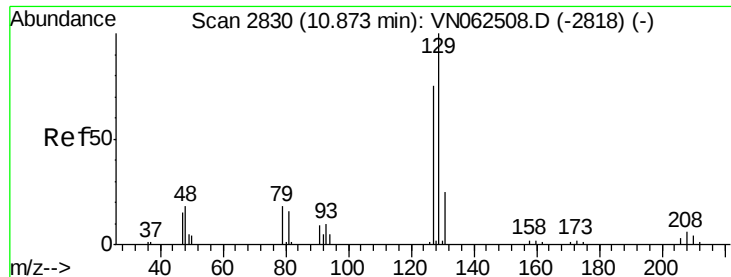
Tgt Ion: 76 Resp: 11852

Ion Ratio Lower Upper

76 100

78 32.5 0.0 63.6

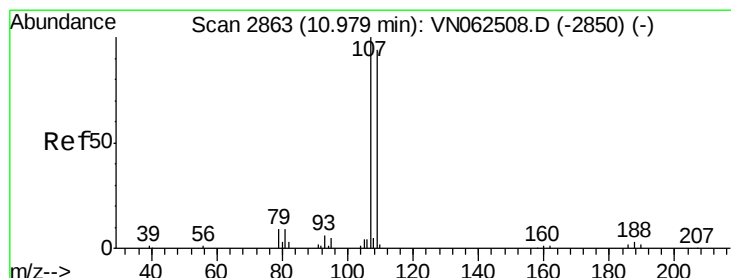
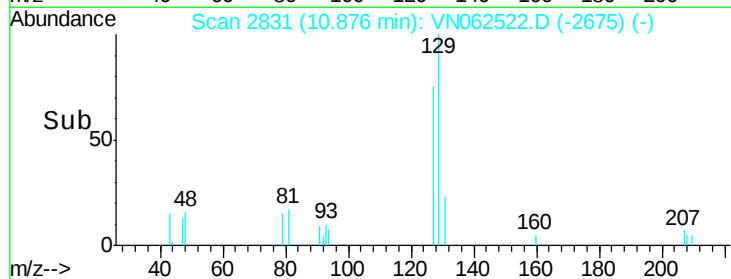
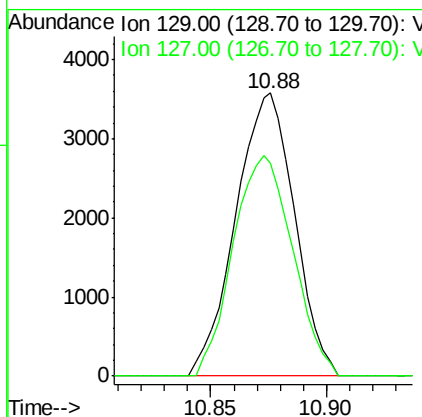
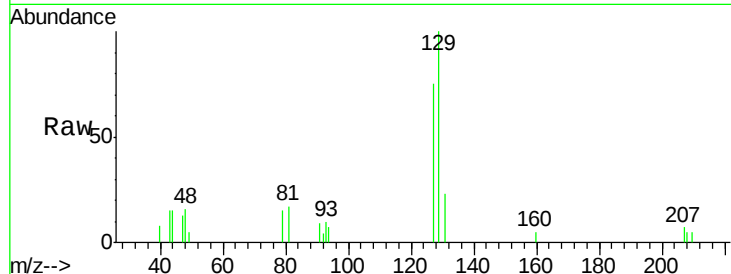




#53
Dibromochloromethane
Concen: 2.324 ug/l
RT: 10.88 min Scan# 2831
Delta R.T. 0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

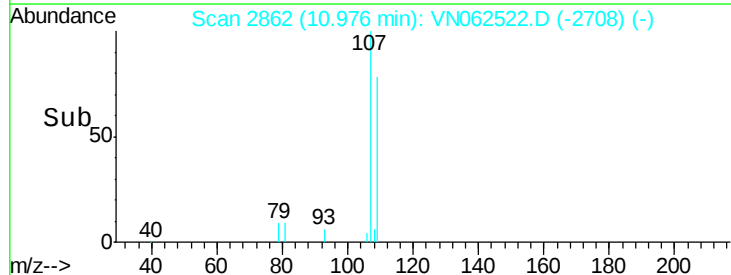
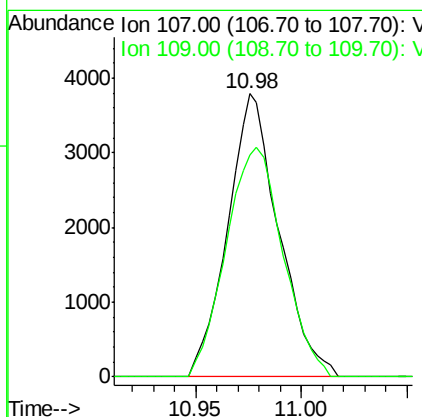
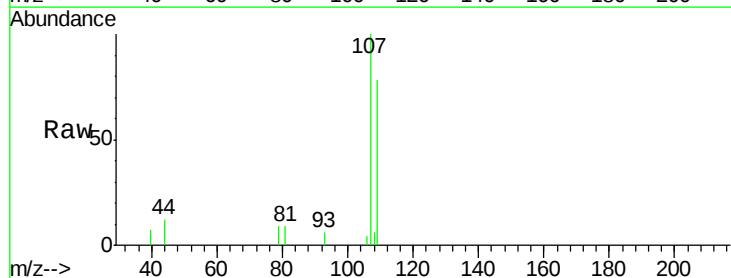
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

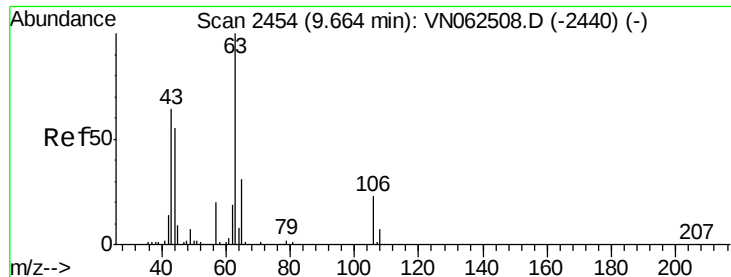
Tot Ion:129 Resp: 6300
Ion Ratio Lower Upper
129 100
127 79.0 38.1 114.5



#54
1,2-Dibromoethane
Concen: 2.504 ug/l
RT: 10.98 min Scan# 2862
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion:107 Resp: 6378
Ion Ratio Lower Upper
107 100
109 90.3 74.8 112.2

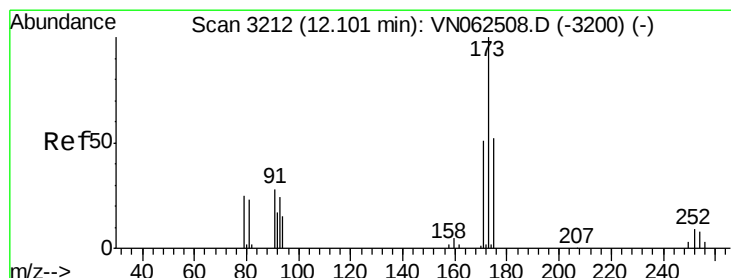
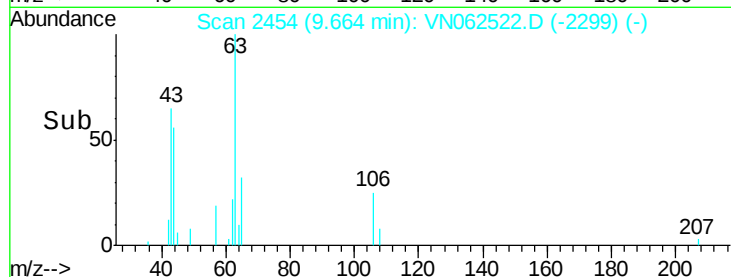
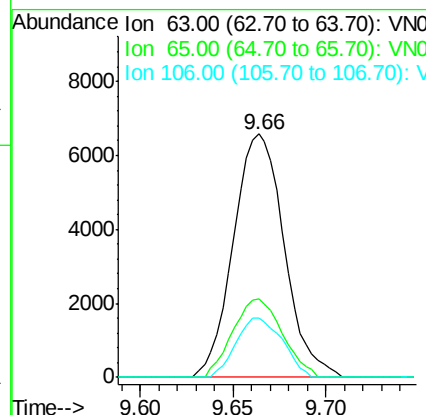
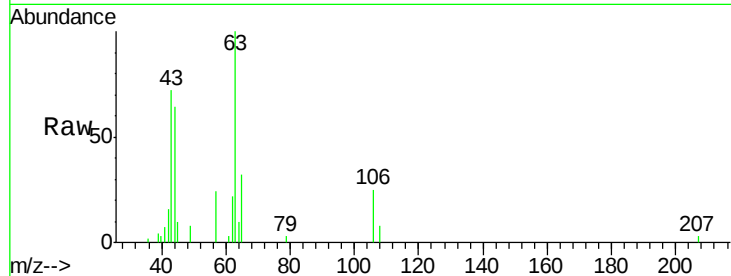




#55
2-Chloroethyl vinyl ether
Concen: 9.352 ug/l
RT: 9.66 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

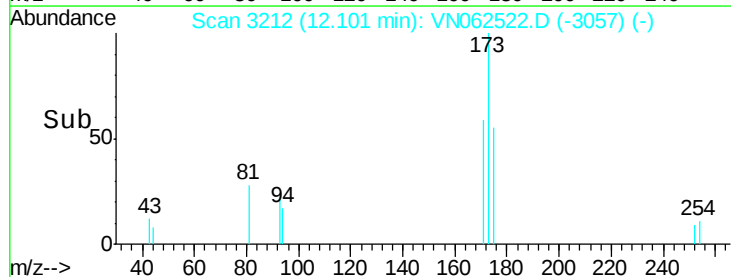
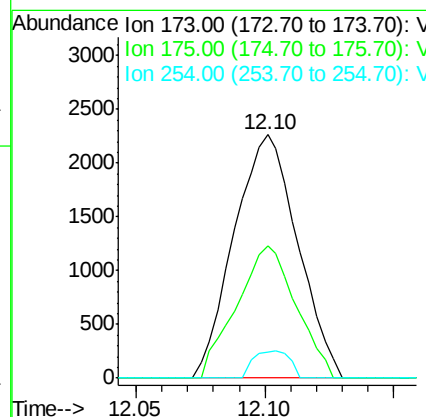
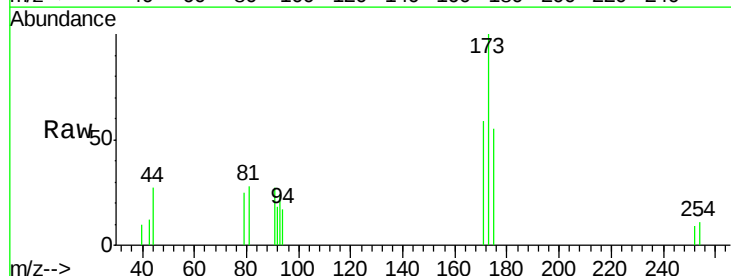
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

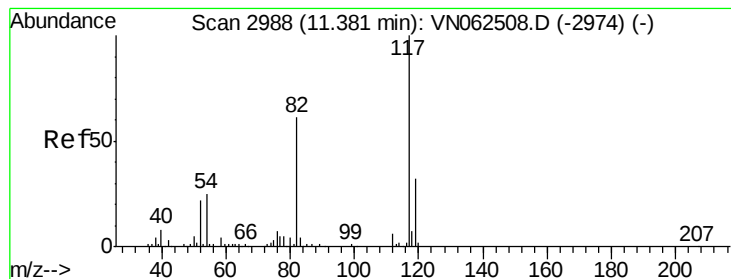
Tot Ion: 63 Resp: 12514
Ion Ratio Lower Upper
63 100
65 31.5 25.4 38.2
106 22.3 18.4 27.6



#56
Bromoform
Concen: 2.092 ug/l
RT: 12.10 min Scan# 3212
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion: 173 Resp: 3874
Ion Ratio Lower Upper
173 100
175 50.9 38.1 57.1
254 6.4 6.2 9.2





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020

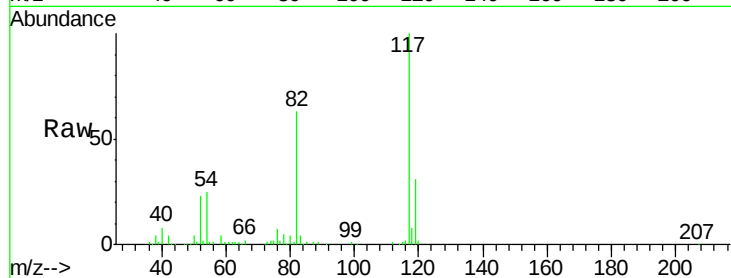
Tot Ion:117 Resp: 193900

Ion Ratio Lower Upper

117 100

82 61.5 49.0 73.6

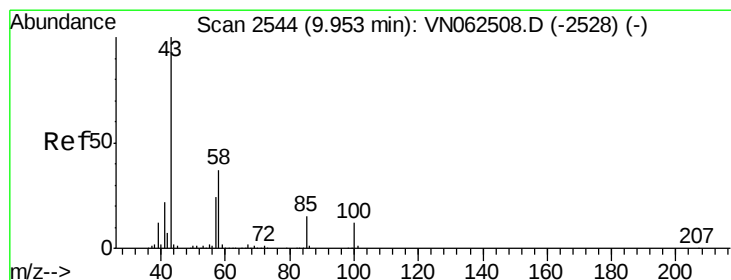
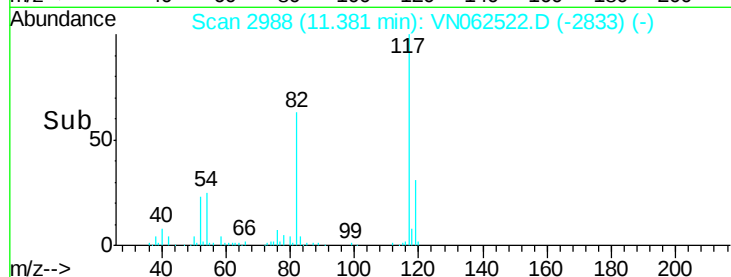
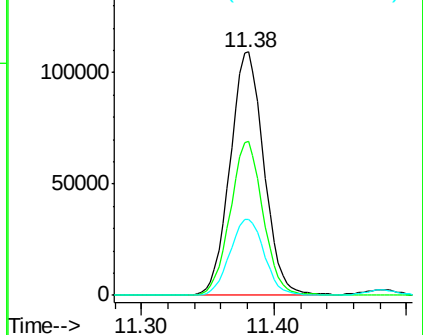
119 31.8 25.6 38.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#58

4-Methyl-2-Pentanone

Concen: 11.630 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

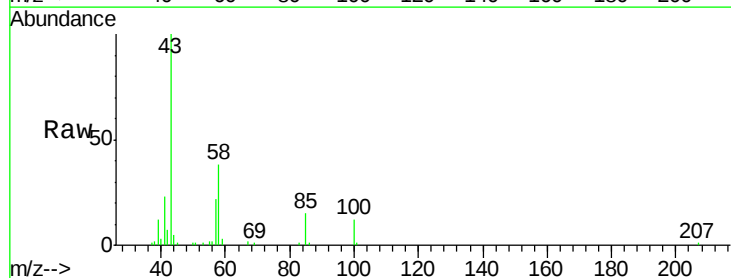
Tgt Ion: 43 Resp: 43936

Ion Ratio Lower Upper

43 100

58 37.6 29.6 44.4

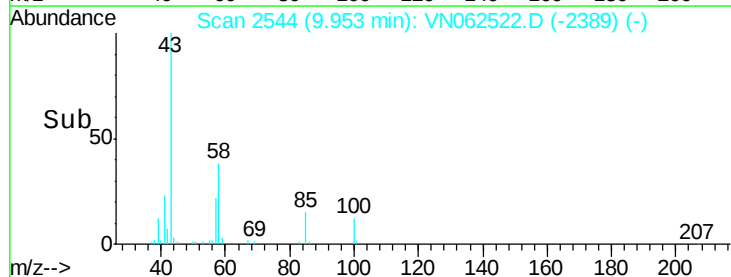
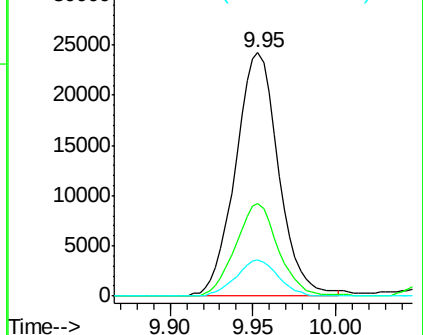
85 14.4 12.0 18.0

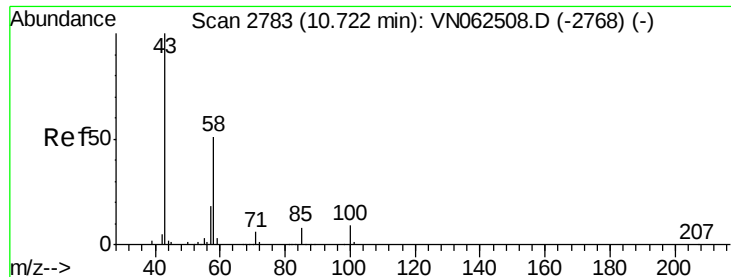


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V

Ion 85.00 (84.70 to 85.70): V

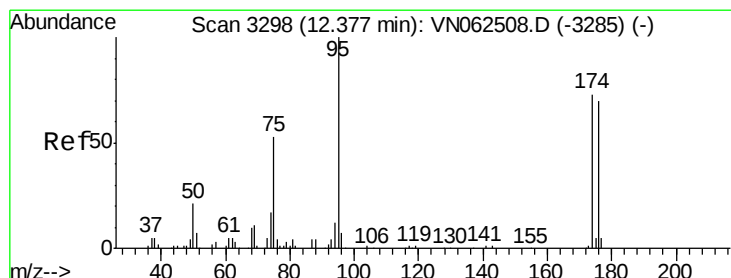
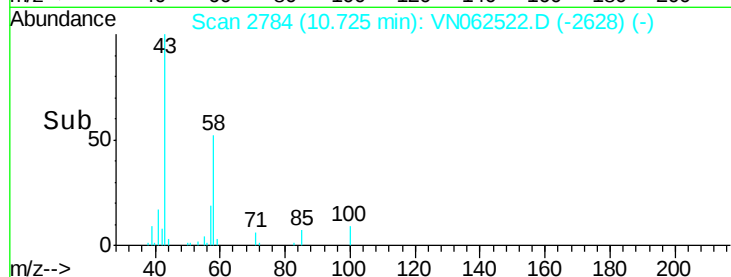
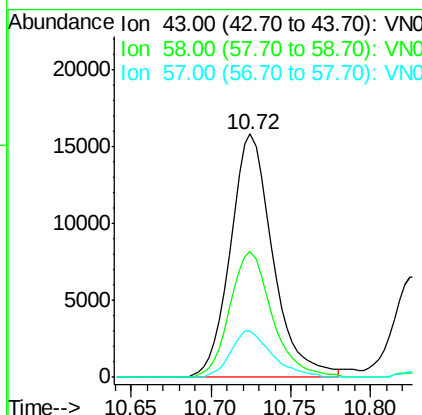
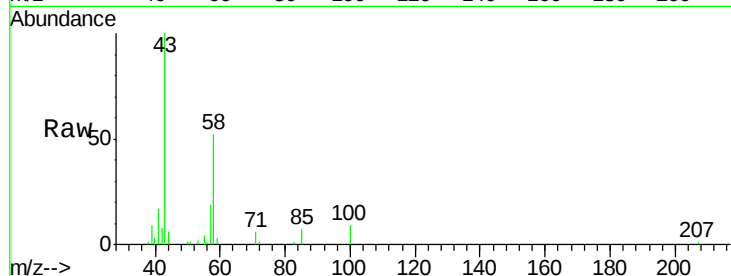




#59
2-Hexanone
Concen: 10.324 ug/l
RT: 10.72 min Scan# 2784
Delta R.T. 0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

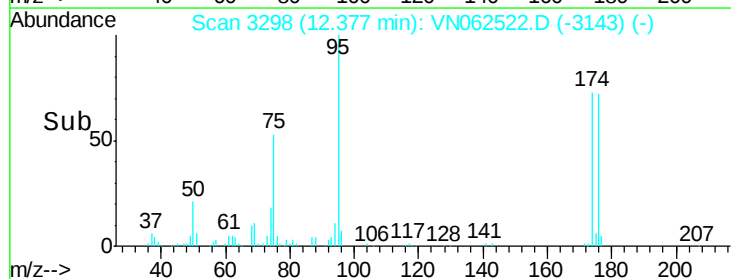
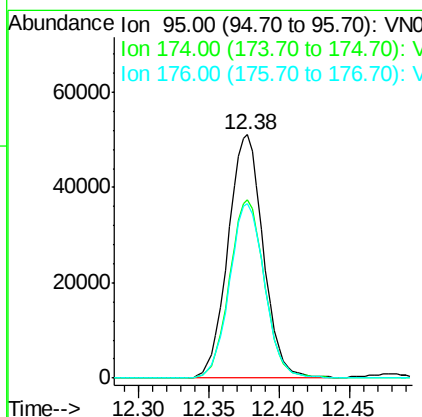
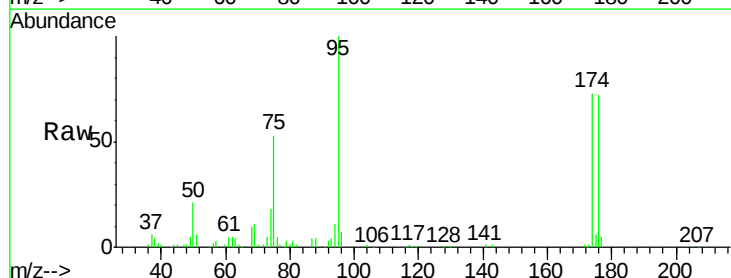
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

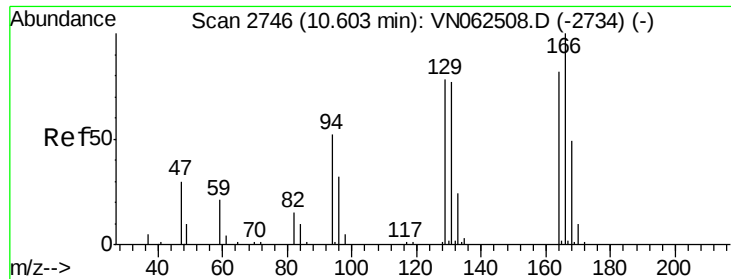
Tot Ion: 43 Resp: 28604
Ion Ratio Lower Upper
43 100
58 51.4 41.2 61.8
57 18.5 14.4 21.6



#60
4-Bromofluorobenzene
Concen: 27.014 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion: 95 Resp: 89138
Ion Ratio Lower Upper
95 100
174 72.7 57.5 86.3
176 71.5 56.3 84.5

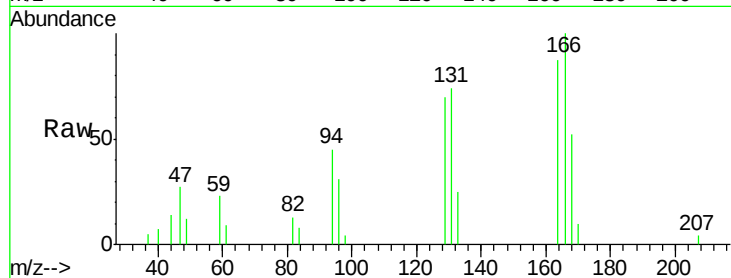




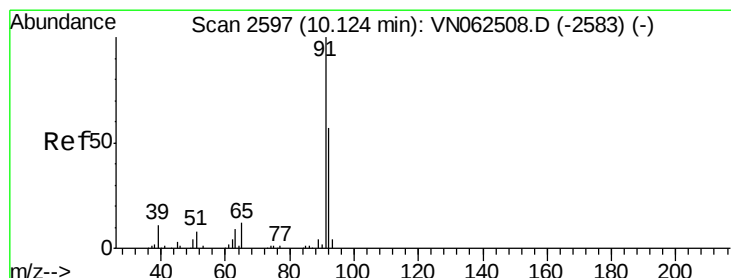
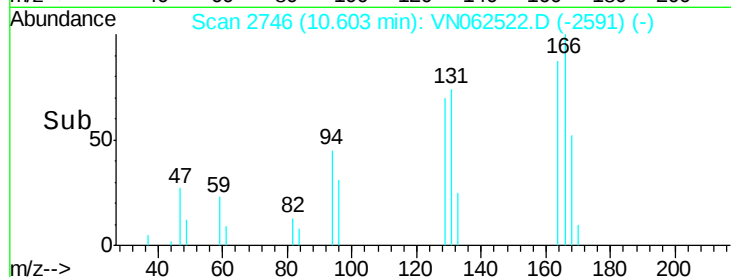
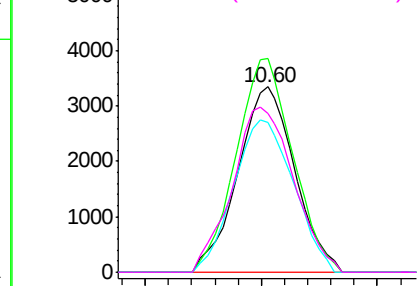
#61
Tetrachloroethene
Concen: 2.871 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion:164 Resp: 5700
Ion Ratio Lower Upper
164 100
166 115.3 97.7 146.5
129 80.8 77.0 115.4
131 85.8 75.0 112.6

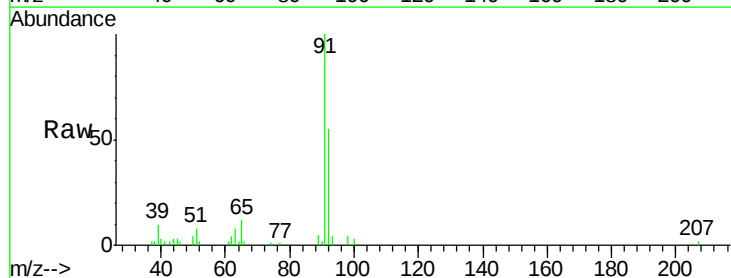


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

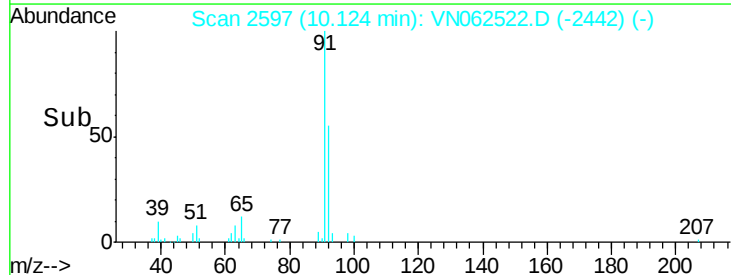
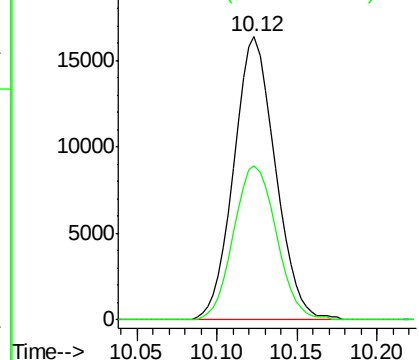


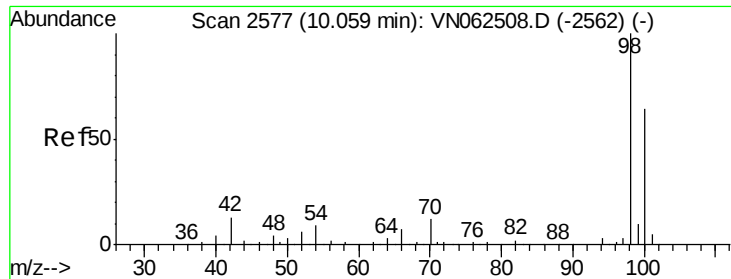
#62
Toluene
Concen: 2.644 ug/l
RT: 10.12 min Scan# 2597
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion: 91 Resp: 29086
Ion Ratio Lower Upper
91 100
92 55.7 45.8 68.6



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 30.207 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

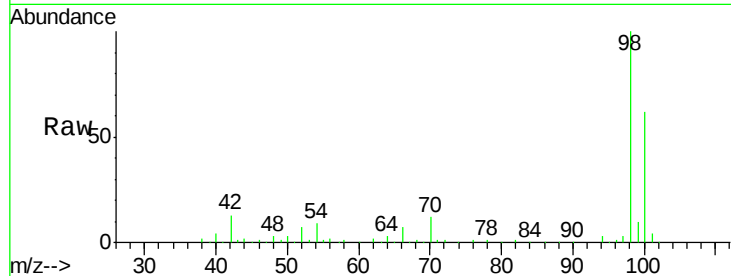
MDL-WATER-03-QT3-2020

Tot Ion: 98 Resp: 276764

Ion Ratio Lower Upper

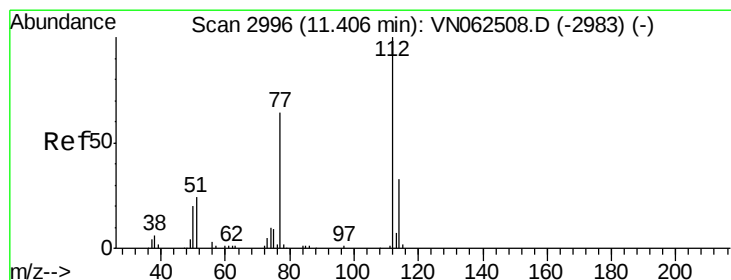
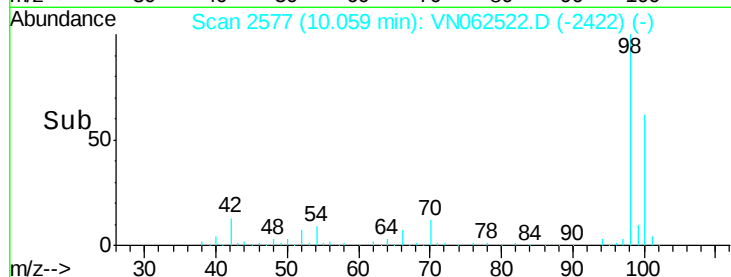
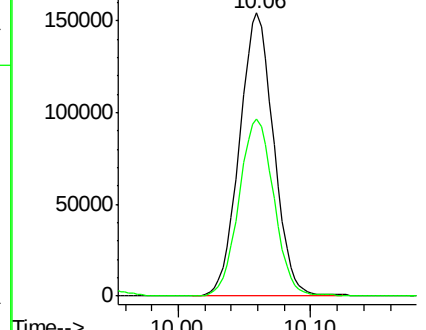
98 100

100 63.6 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN062508.D (-2562) (-)

Ion 100.00 (99.70 to 100.70): VN062522.D (-2422) (-)



#64

Chlorobenzene

Concen: 2.636 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN062522.D

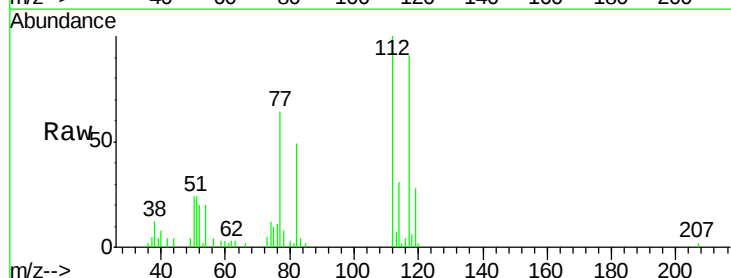
Acq: 14 Jul 2020 11:12

Tgt Ion: 112 Resp: 17040

Ion Ratio Lower Upper

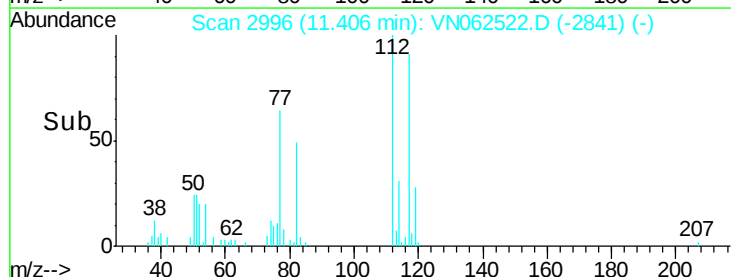
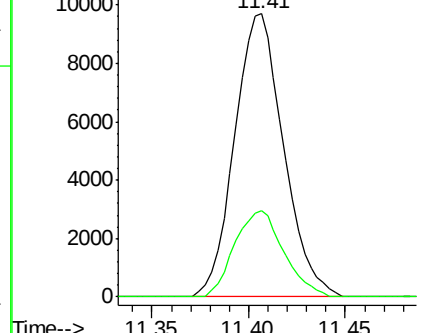
112 100

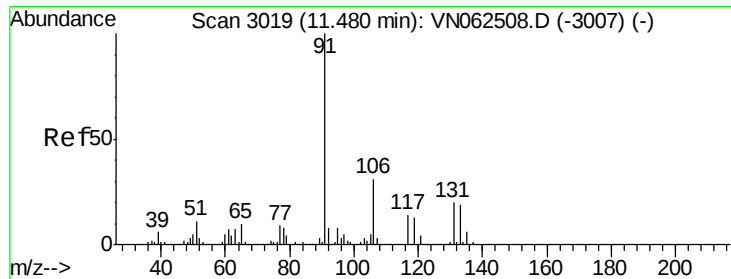
114 30.5 26.0 39.0



Abundance Ion 112.00 (111.70 to 112.70): VN062508.D (-2983) (-)

Ion 114.00 (113.70 to 114.70): VN062522.D (-2841) (-)





#65

1,1,1,2-Tetrachloroethane

Concen: 2.527 ug/l

RT: 11.48 min Scan# 3019

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020

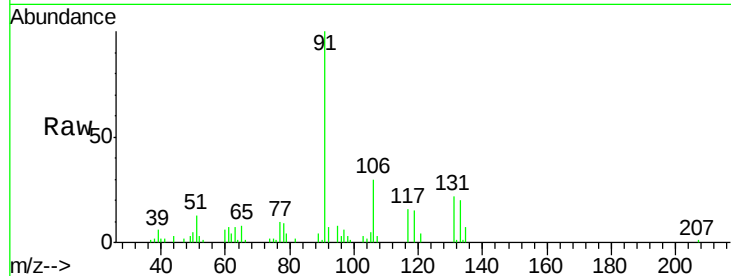
Tot Ion:131 Resp: 6045

Ion Ratio Lower Upper

131 100

133 96.8 0.0 191.4

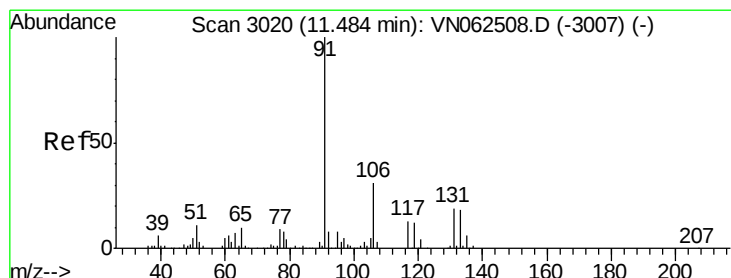
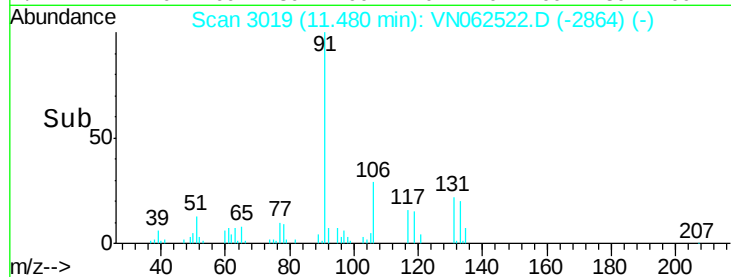
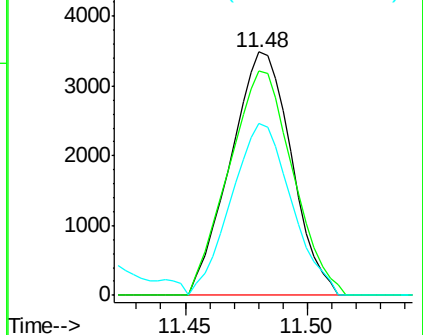
119 69.9 0.0 136.2



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 2.395 ug/l

RT: 11.48 min Scan# 3020

Delta R.T. -0.00 min

Lab File: VN062522.D

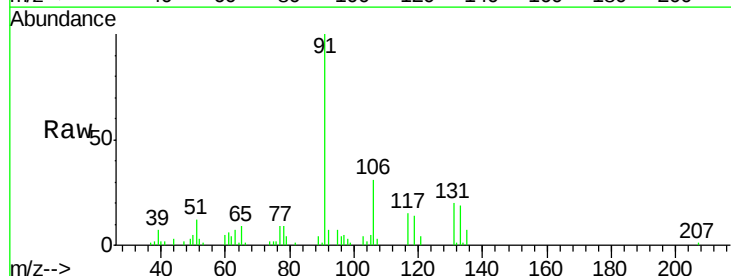
Acq: 14 Jul 2020 11:12

Tgt Ion: 91 Resp: 29175

Ion Ratio Lower Upper

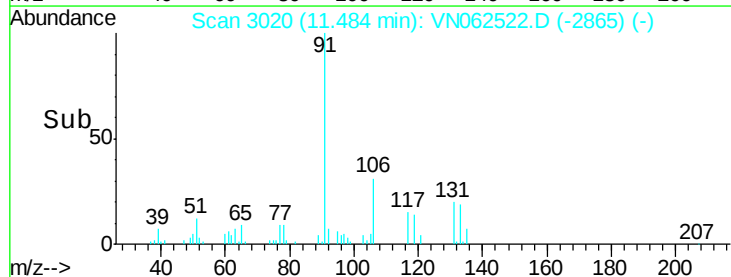
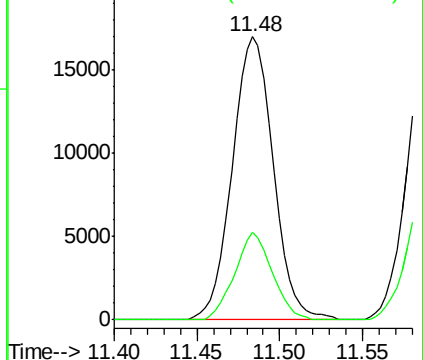
91 100

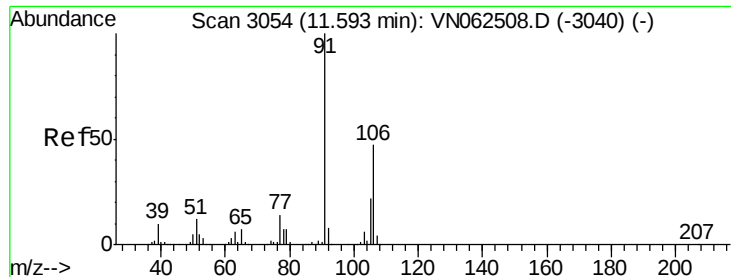
106 30.7 24.6 36.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V

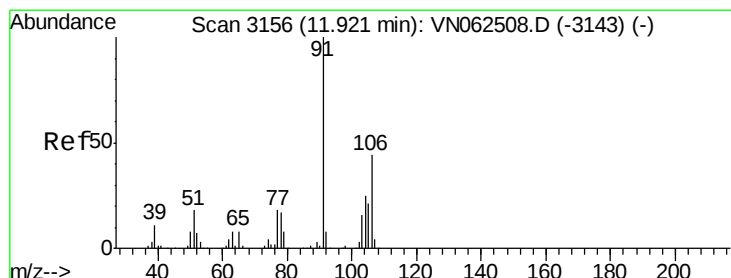
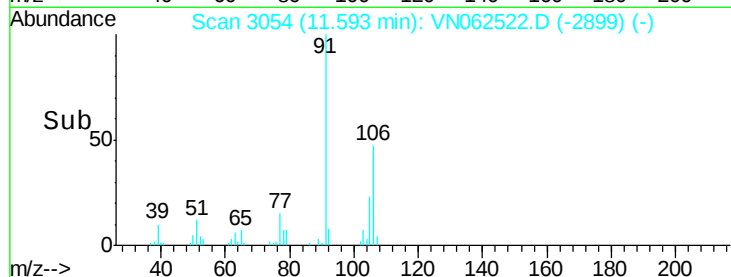
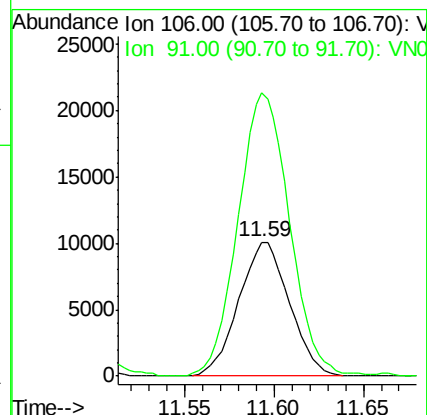
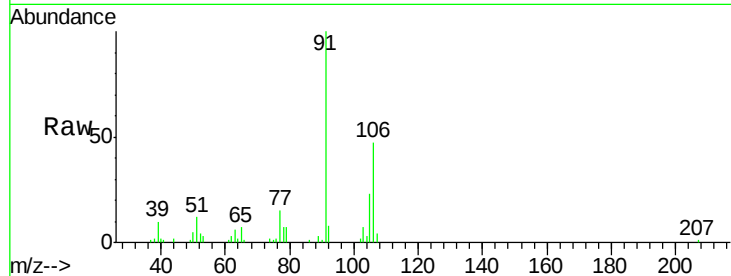




#67
m/p-Xylenes
Concen: 4.527 ug/l
RT: 11.59 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

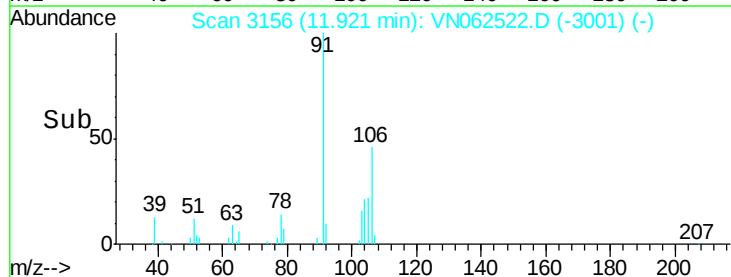
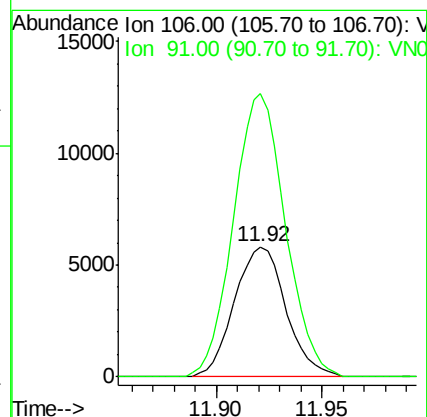
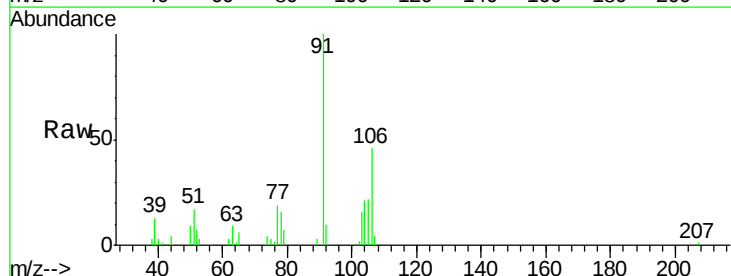
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

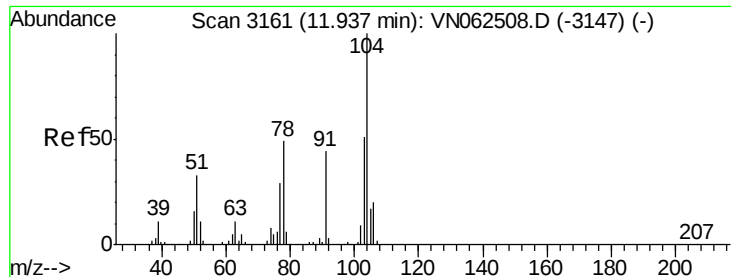
Tot Ion:106 Resp: 20014
Ion Ratio Lower Upper
106 100
91 214.3 170.7 256.1



#68
o-Xylene
Concen: 2.329 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion:106 Resp: 9880
Ion Ratio Lower Upper
106 100
91 218.6 113.9 341.6

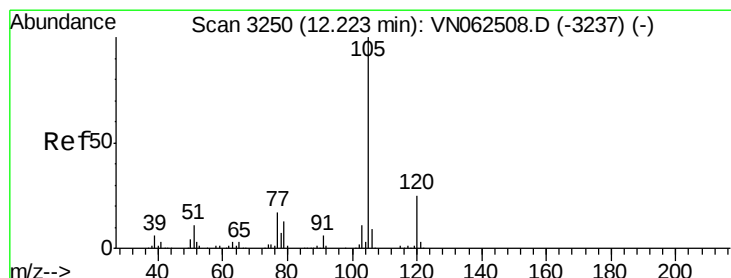
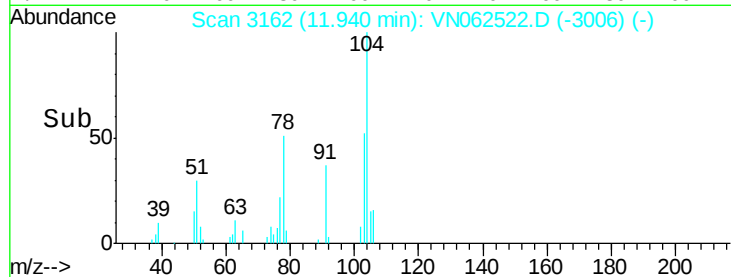
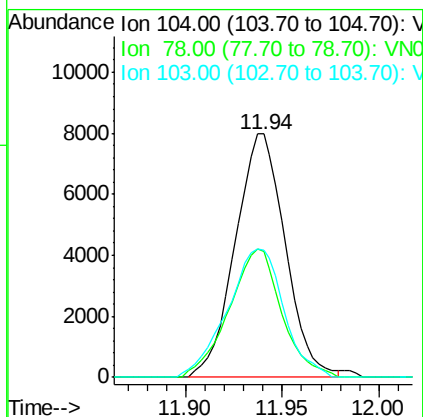
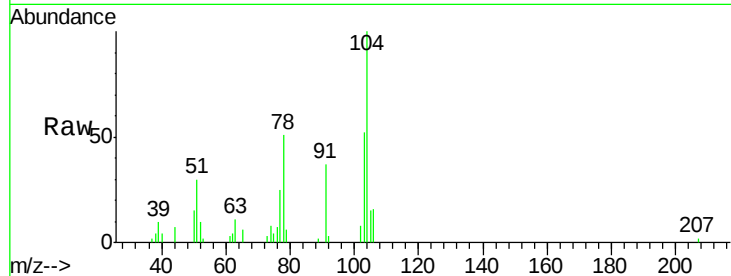




#69
Stvrene
Concen: 1.996 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

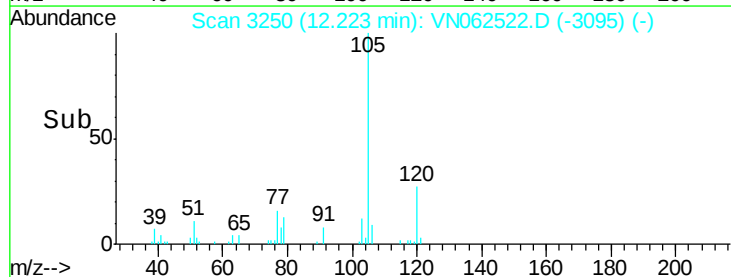
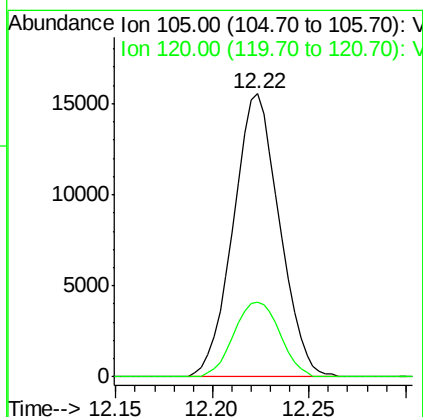
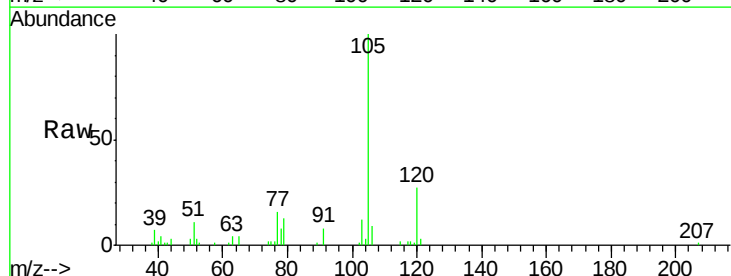
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

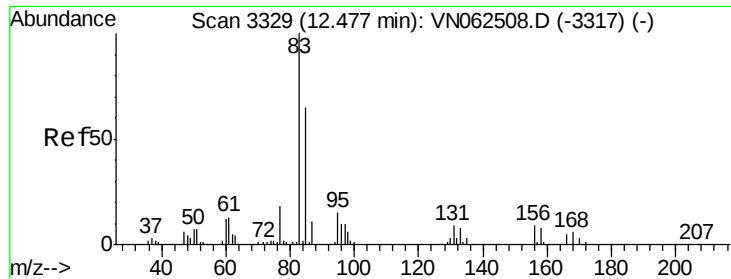
Tot Ion:104 Resp: 14371
Ion Ratio Lower Upper
104 100
78 55.5 43.9 65.9
103 59.4 43.8 65.6



#70
Isopropylbenzene
Concen: 2.266 ug/l
RT: 12.22 min Scan# 3250
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion:105 Resp: 25808
Ion Ratio Lower Upper
105 100
120 26.4 17.6 32.8

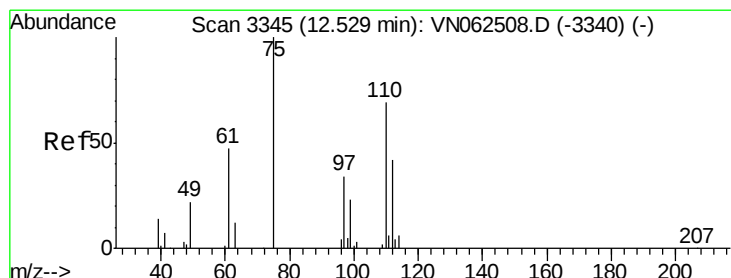
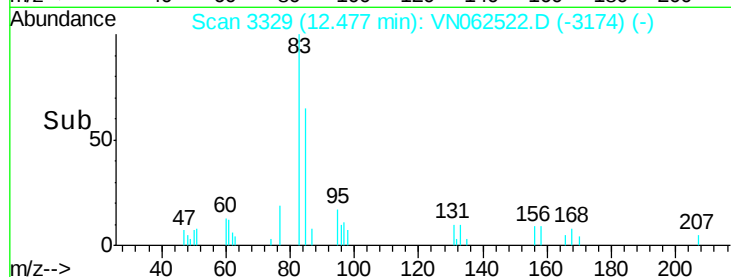
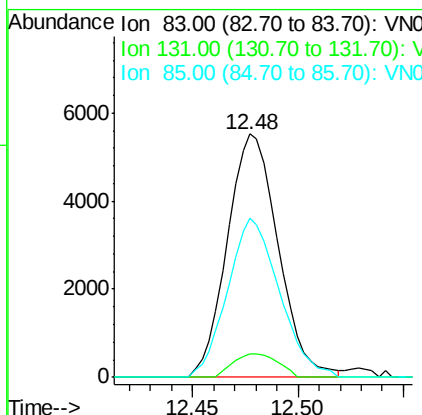
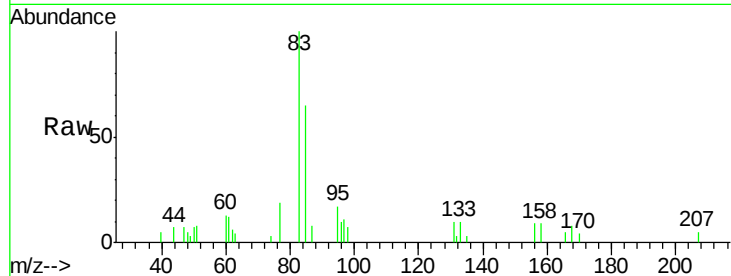




#71
 1,1,2,2-Tetrachloroethane
 Concen: 2.516 ug/l
 RT: 12.48 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

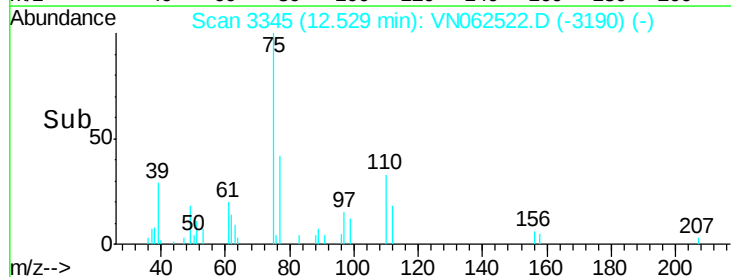
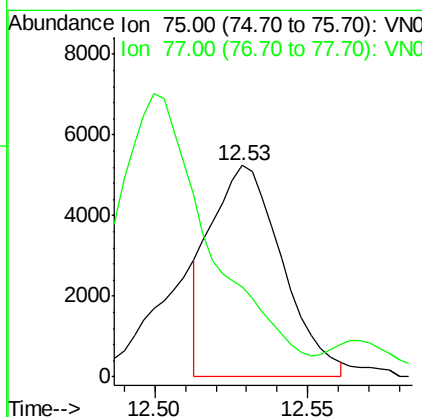
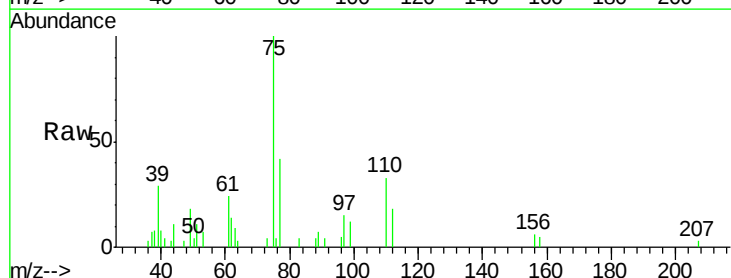
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020

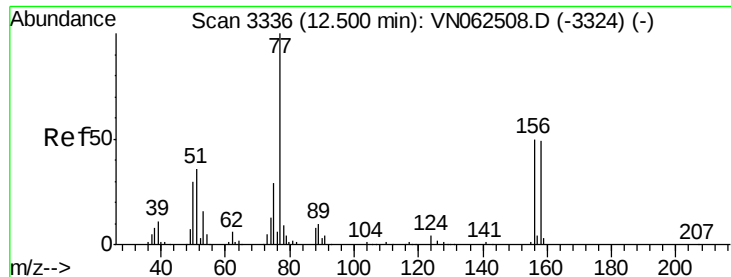
Tot Ion: 83 Resp: 9263
 Ion Ratio Lower Upper
 83 100
 131 8.5 4.5 13.7
 85 66.5 32.5 97.4



#72
 1,2,3-Trichloropropane
 Concen: 2.378 ug/l m
 RT: 12.53 min Scan# 3345
 Delta R.T. -0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

Tgt Ion: 75 Resp: 8515
 Ion Ratio Lower Upper
 75 100
 77 179.0 0.0 376.2





#73

Bromobenzene

Concen: 2.411 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020

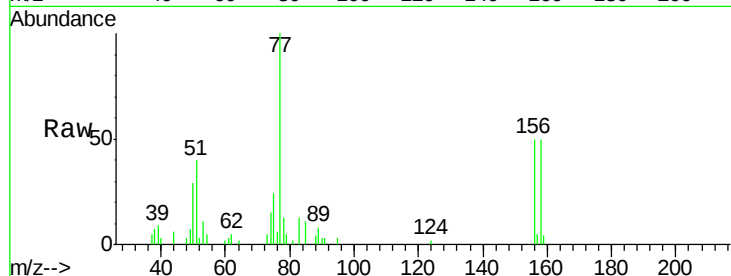
Tot Ion:156 Resp: 6361

Ion Ratio Lower Upper

156 100

77 239.6 0.0 485.0

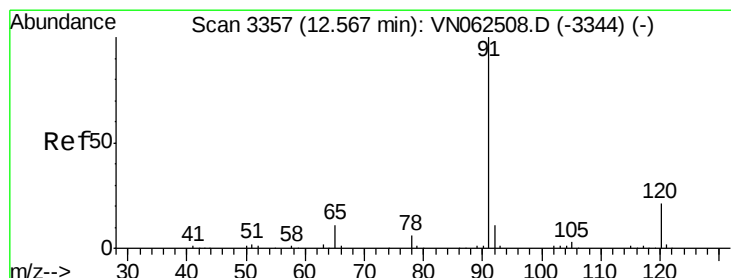
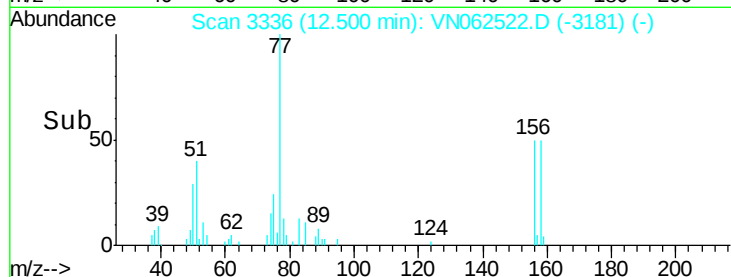
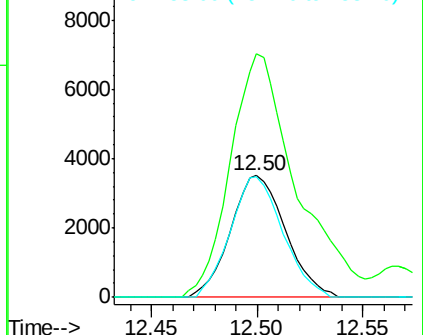
158 94.5 0.0 192.6



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: 2.259 ug/l

RT: 12.57 min Scan# 3357

Delta R.T. -0.00 min

Lab File: VN062522.D

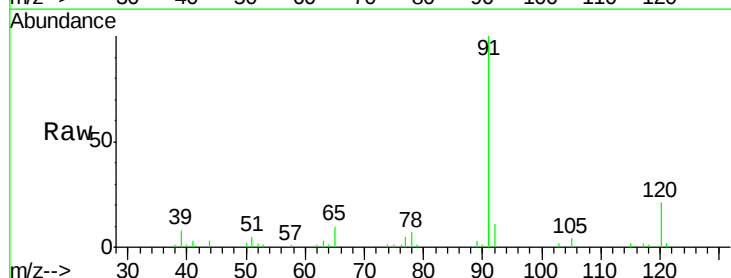
Acq: 14 Jul 2020 11:12

Tgt Ion: 91 Resp: 30585

Ion Ratio Lower Upper

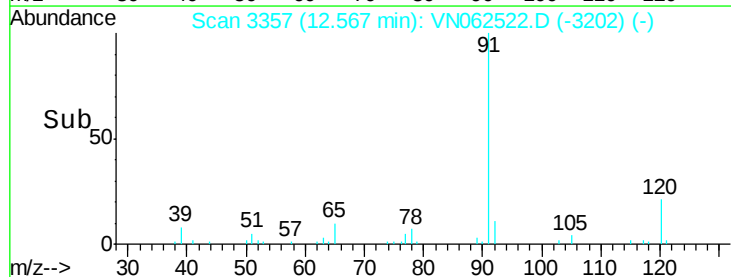
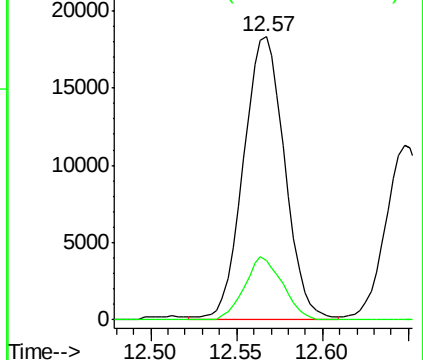
91 100

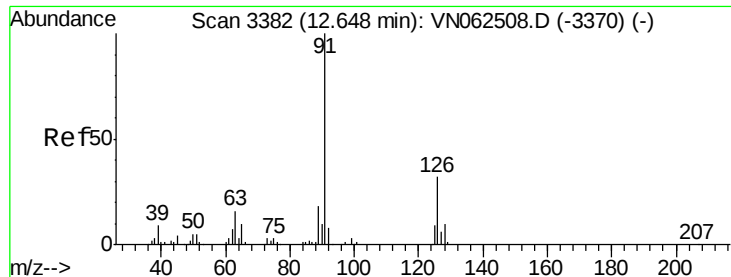
120 20.4 0.0 42.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 2.374 ug/l

RT: 12.65 min Scan# 3382

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

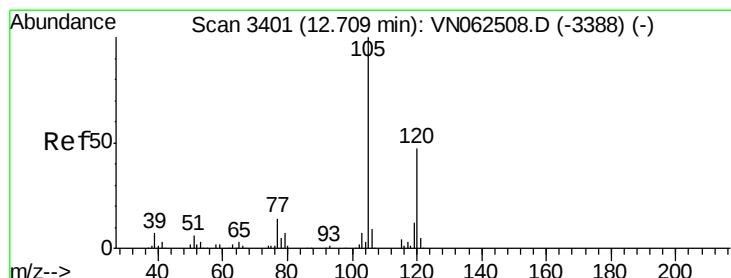
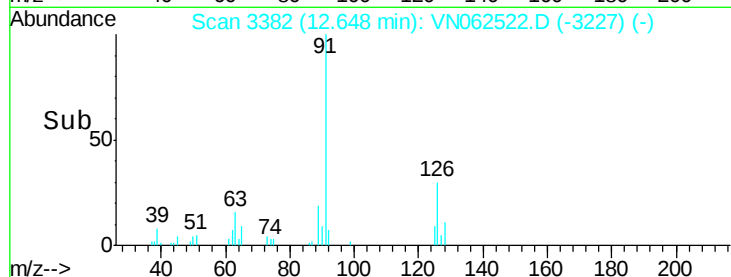
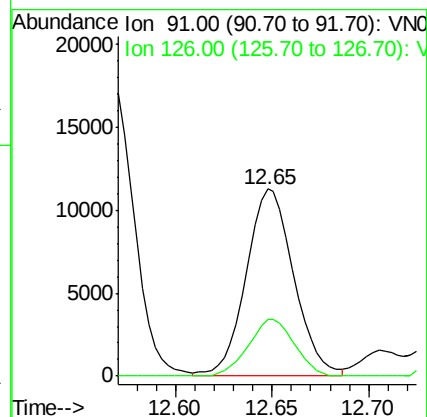
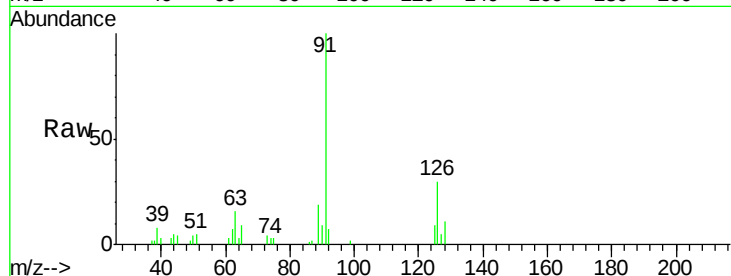
MDL-WATER-03-QT3-2020

Tot Ion: 91 Resp: 19355

Ion Ratio Lower Upper

91 100

126 29.3 0.0 62.2



#76

1,3,5-Trimethylbenzene

Concen: 2.218 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN062522.D

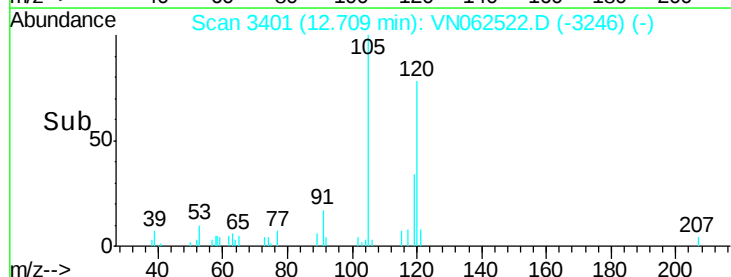
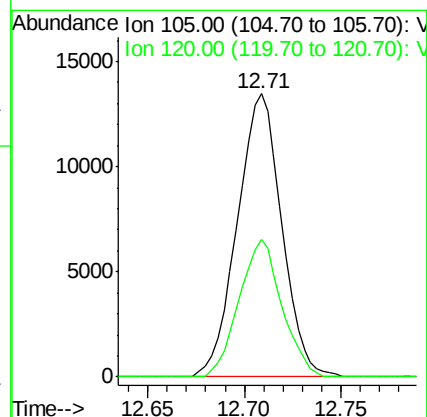
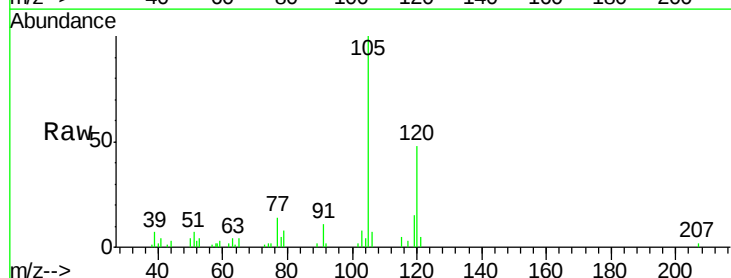
Acq: 14 Jul 2020 11:12

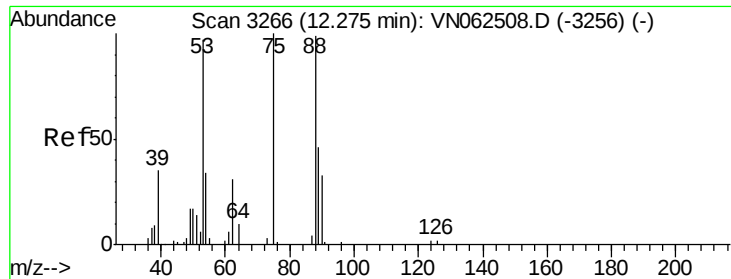
Tgt Ion: 105 Resp: 21526

Ion Ratio Lower Upper

105 100

120 46.6 0.0 95.0





#77

t-1,4-Dichloro-2-butene

Concen: 1.942 ug/l

RT: 12.27 min Scan# 3266

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020

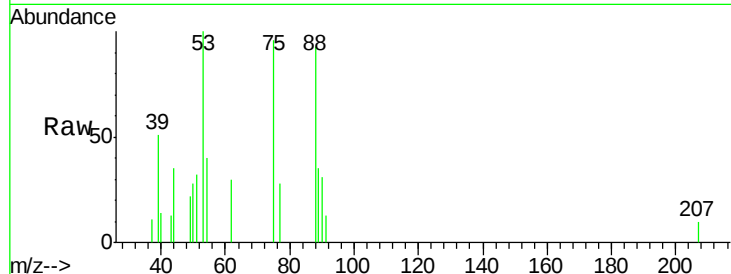
Tot Ion: 75 Resp: 2601

Ion Ratio Lower Upper

75 100

53 103.7 48.3 144.8

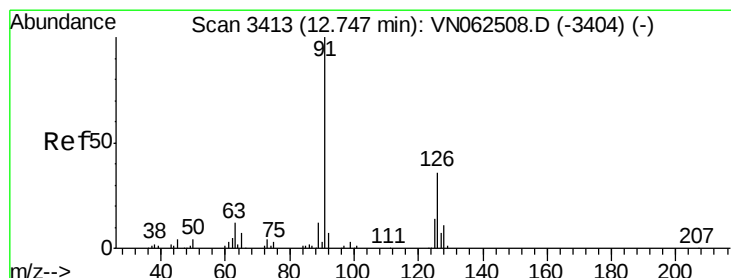
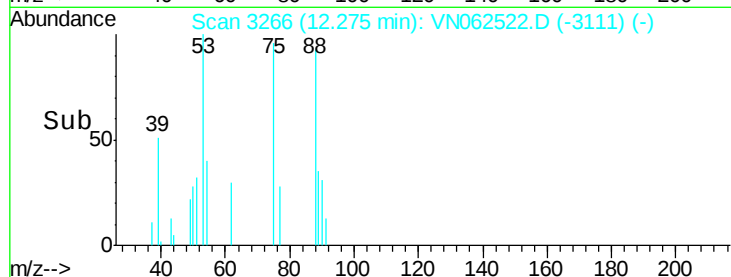
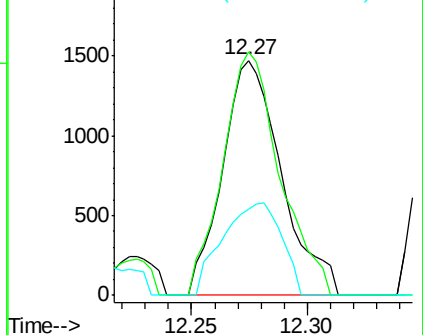
89 36.7 23.3 69.8



Abundance Ion 75.00 (74.70 to 75.70): VN062508.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN062508.D (-3256) (-)

Ion 89.00 (88.70 to 89.70): VN062508.D (-3256) (-)



#78

4-Chlorotoluene

Concen: 2.105 ug/l

RT: 12.75 min Scan# 3414

Delta R.T. 0.00 min

Lab File: VN062522.D

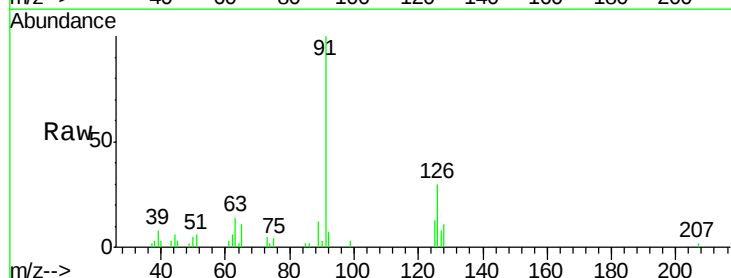
Acq: 14 Jul 2020 11:12

Tgt Ion: 91 Resp: 17507

Ion Ratio Lower Upper

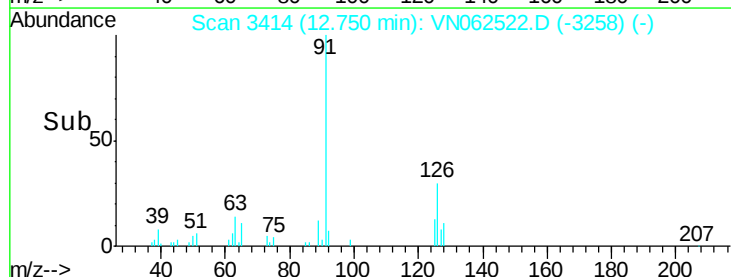
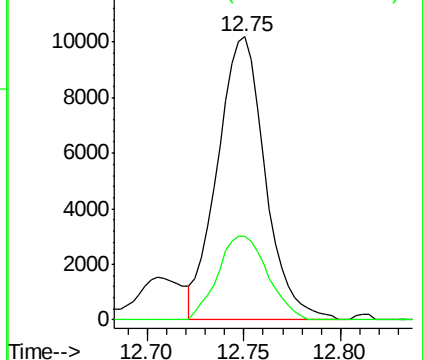
91 100

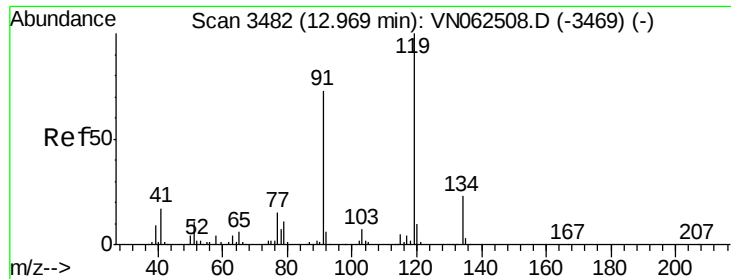
126 30.9 0.0 62.2



Abundance Ion 91.00 (90.70 to 91.70): VN062508.D (-3404) (-)

Ion 126.00 (125.70 to 126.70): VN062508.D (-3404) (-)

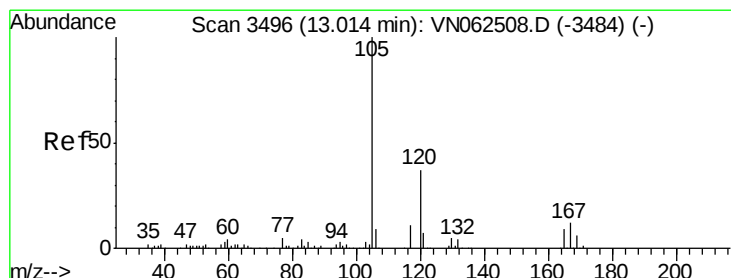
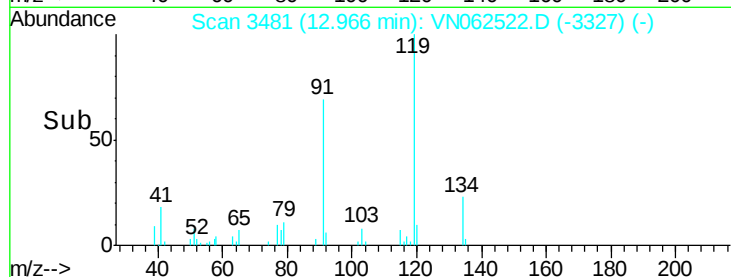
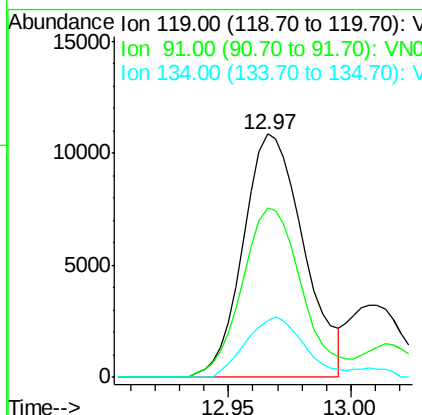
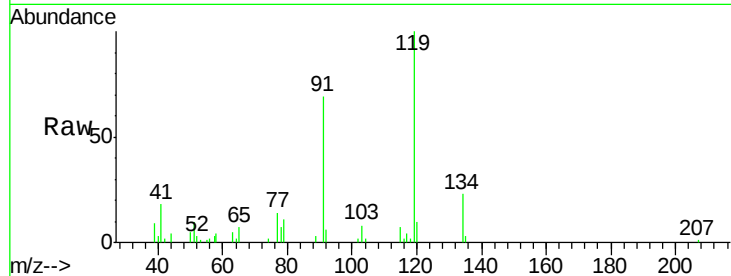




#79
tert-butylbenzene
Concen: 2.327 ug/l
RT: 12.97 min Scan# 3481
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

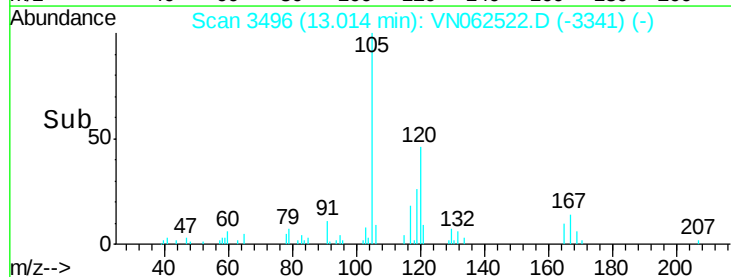
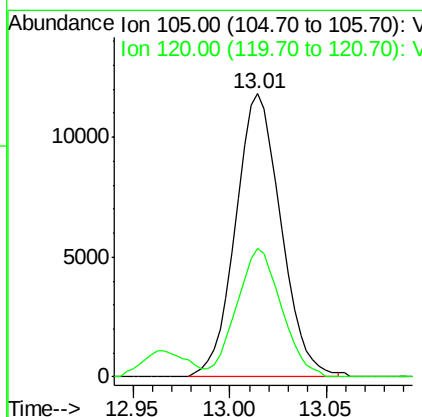
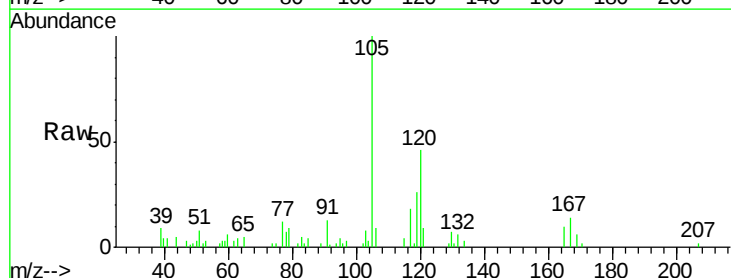
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

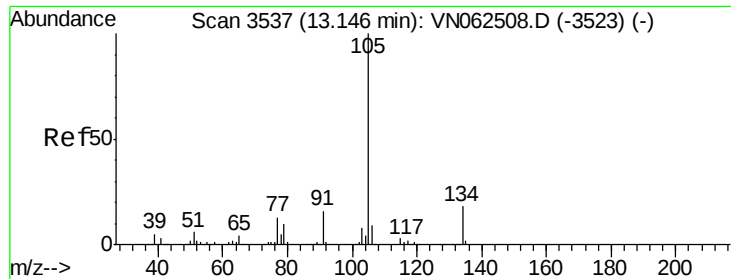
Tot Ion:119 Resp: 18704
Ion Ratio Lower Upper
119 100
91 68.7 0.0 139.8
134 23.8 0.0 45.0



#80
1,2,4-Trimethylbenzene
Concen: 2.022 ug/l
RT: 13.01 min Scan# 3496
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion:105 Resp: 19304
Ion Ratio Lower Upper
105 100
120 44.8 0.0 86.6





#81

sec-Butylbenzene

Concen: 2.135 ug/l

RT: 13.15 min Scan# 3537

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

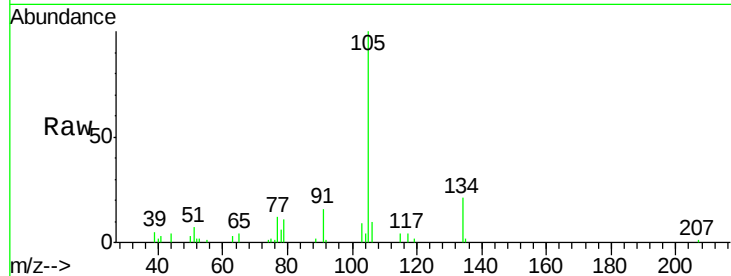
MDL-WATER-03-QT3-2020

Tot Ion:105 Resp: 23044

Ion Ratio Lower Upper

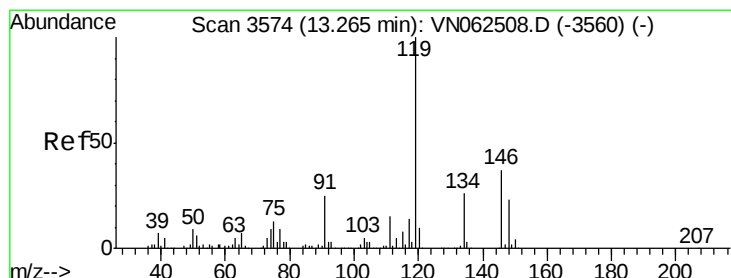
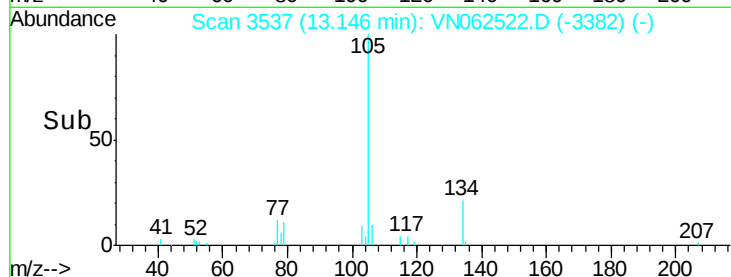
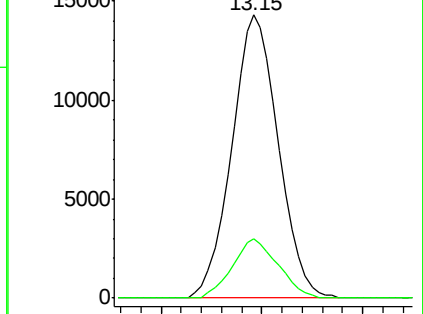
105 100

134 20.5 0.0 37.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 2.087 ug/l

RT: 13.26 min Scan# 3573

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

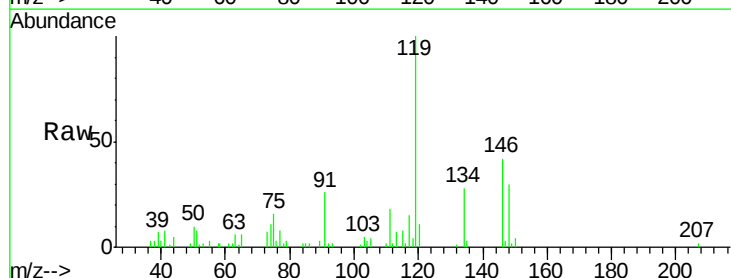
Tgt Ion:119 Resp: 19874

Ion Ratio Lower Upper

119 100

134 25.6 0.0 50.8

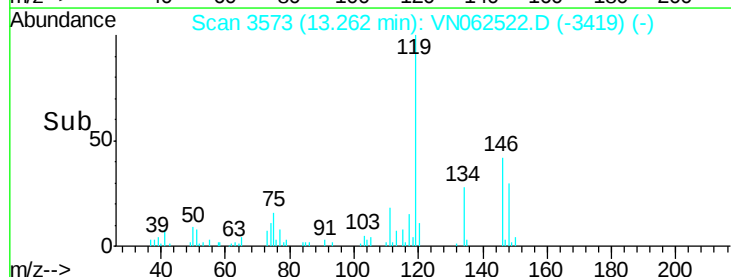
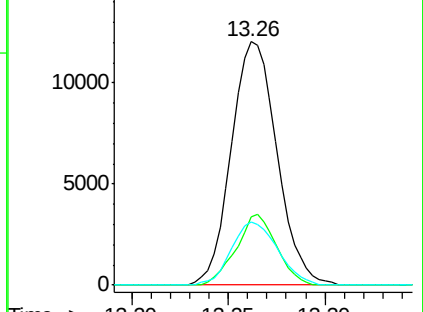
91 26.3 0.0 51.2

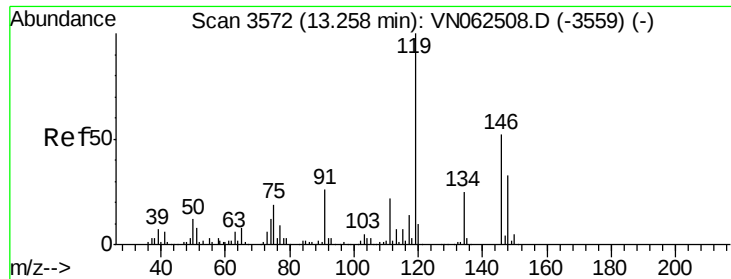


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#83

1,3-Dichlorobenzene

Concen: 2.107 ug/l

RT: 13.26 min Scan# 3572

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020

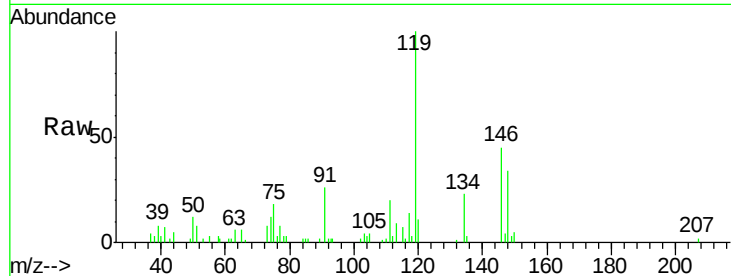
Tot Ion:146 Resp: 9651

Ion Ratio Lower Upper

146 100

111 41.3 21.0 63.0

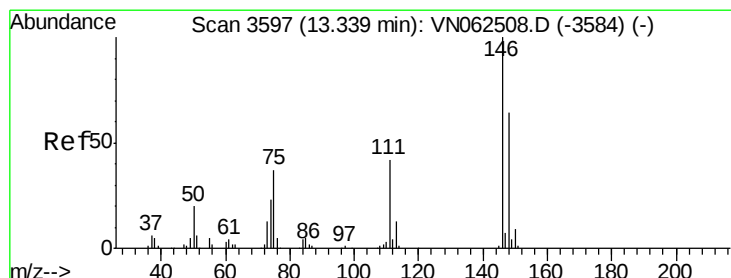
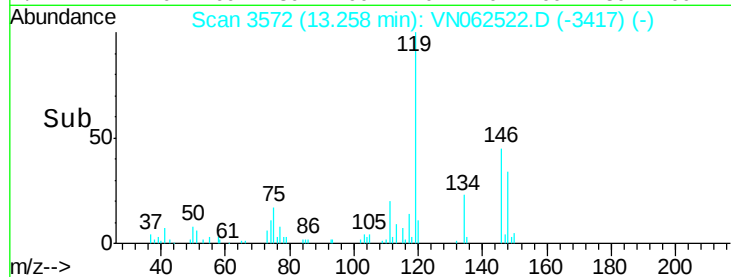
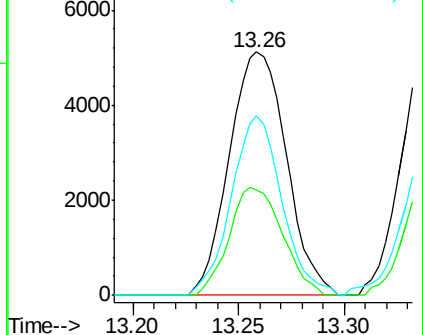
148 65.2 31.7 95.1



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



#84

1,4-Dichlorobenzene

Concen: 2.112 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

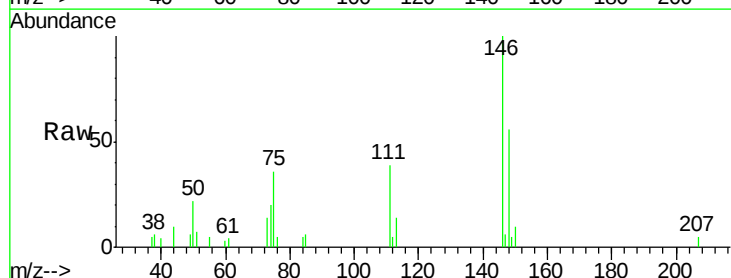
Tgt Ion:146 Resp: 9549

Ion Ratio Lower Upper

146 100

111 37.9 21.4 64.2

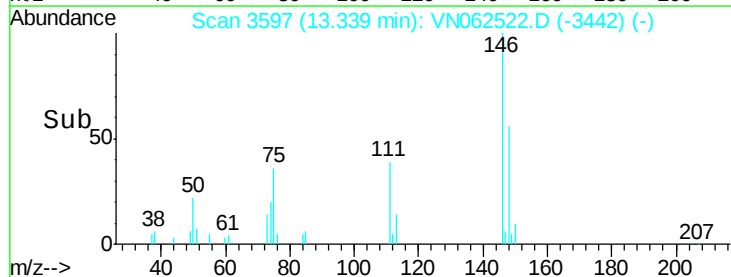
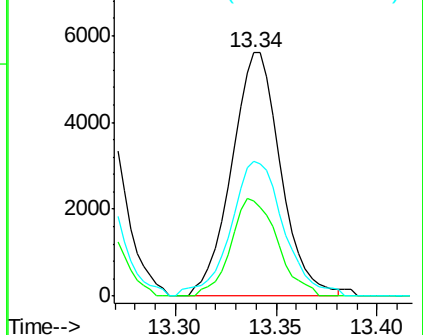
148 59.7 32.4 97.2

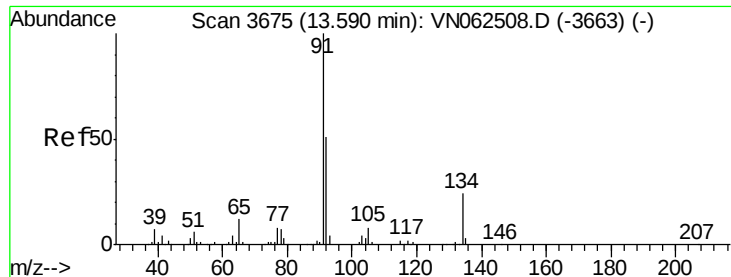


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

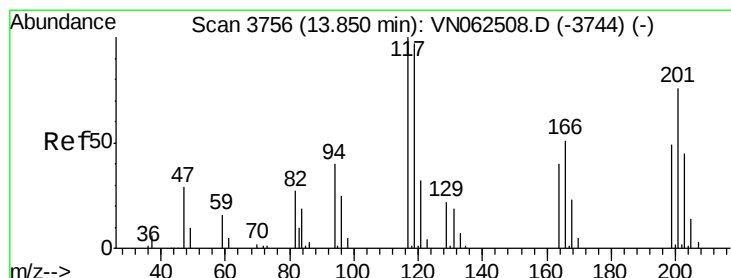
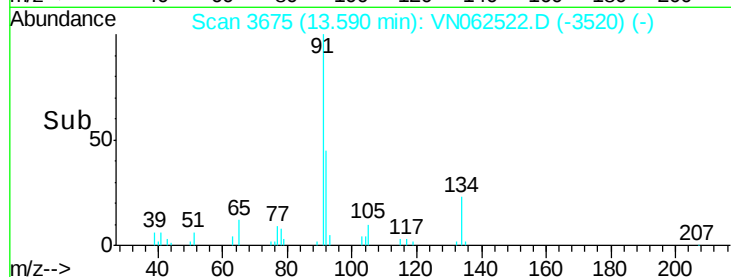
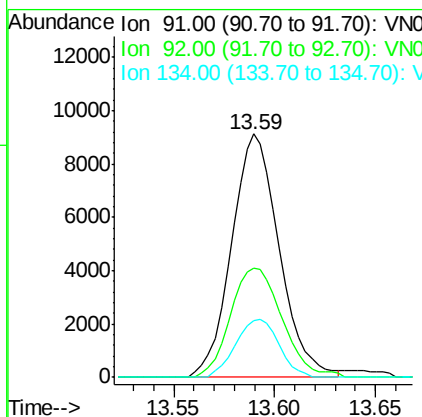
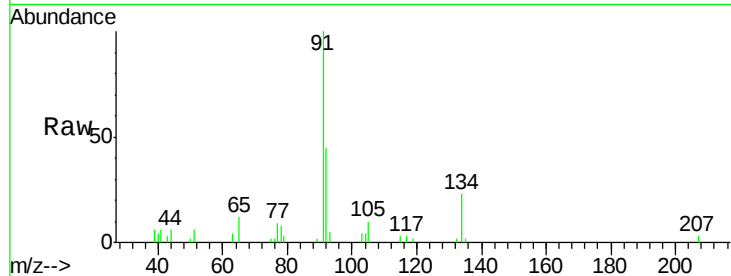




#85
n-Butylbenzene
Concen: 1.846 ug/l
RT: 13.59 min Scan# 3675
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

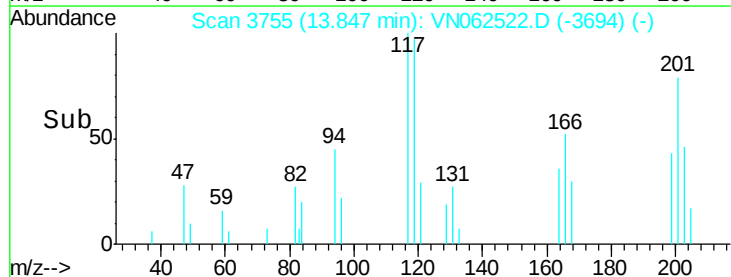
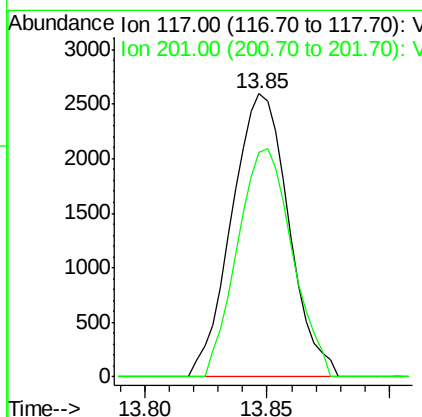
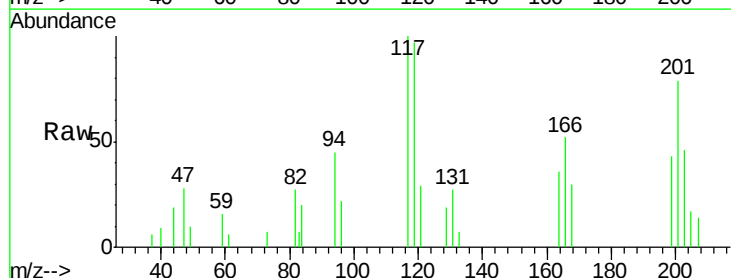
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

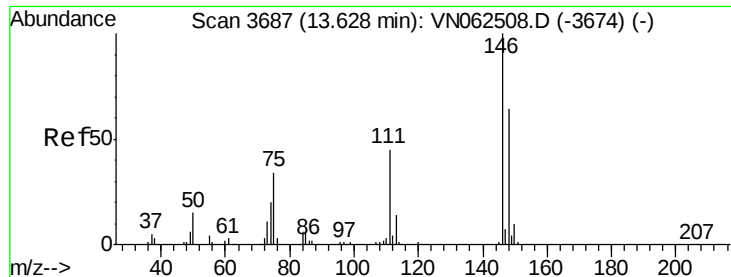
Tot Ion: 91 Resp: 15082
Ion Ratio Lower Upper
91 100
92 48.7 0.0 102.4
134 21.7 0.0 46.6



#86
Hexachloroethane
Concen: 2.286 ug/l
RT: 13.85 min Scan# 3755
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion: 117 Resp: 4202
Ion Ratio Lower Upper
117 100
201 77.5 37.4 112.2





#87

1,2-Dichlorobenzene

Concen: 2.107 ug/l

RT: 13.63 min Scan# 3687

Delta R.T. -0.00 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2020

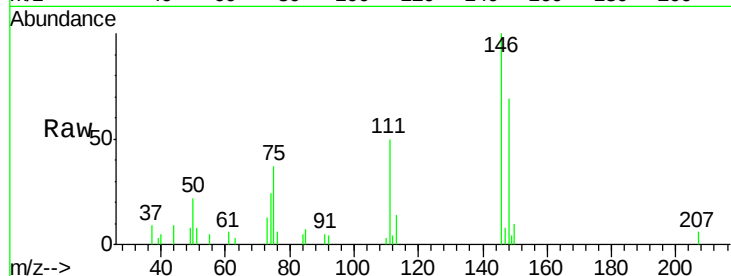
Tot Ion:146 Resp: 9282

Ion Ratio Lower Upper

146 100

111 50.5 22.4 67.0

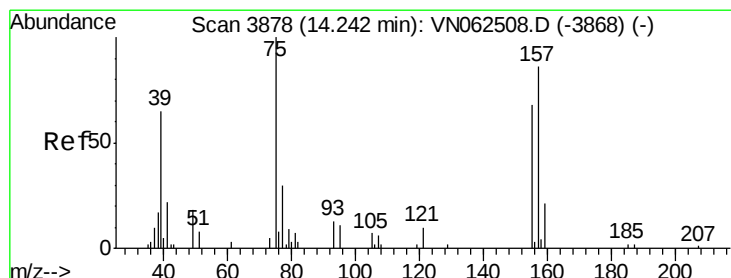
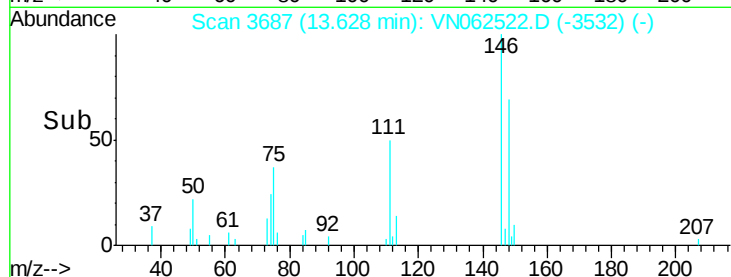
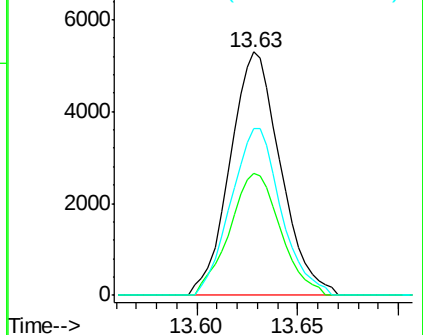
148 68.1 32.1 96.3



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: 1.789 ug/l

RT: 14.25 min Scan# 3880

Delta R.T. 0.01 min

Lab File: VN062522.D

Acq: 14 Jul 2020 11:12

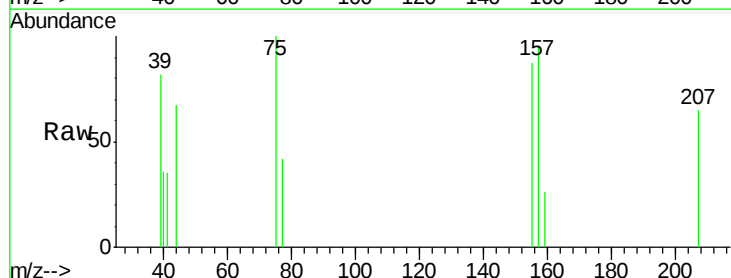
Tgt Ion: 75 Resp: 1244

Ion Ratio Lower Upper

75 100

155 69.5 55.7 83.5

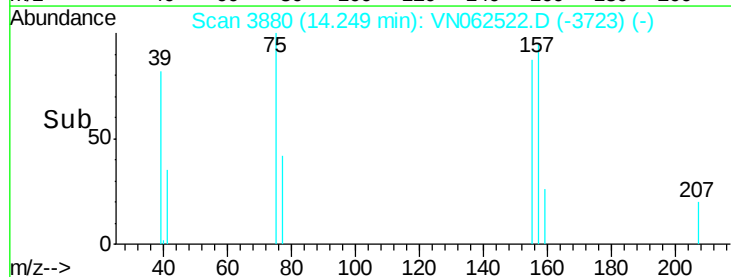
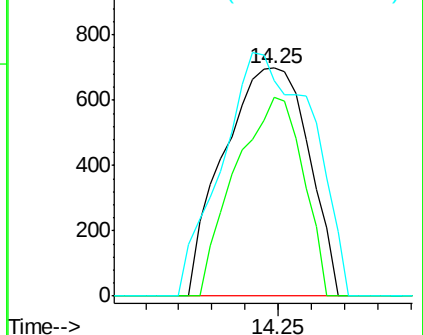
157 77.5 71.0 106.6

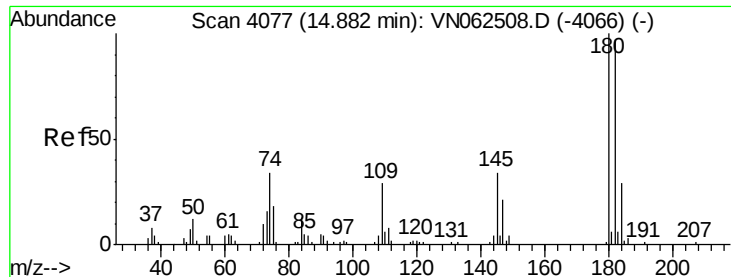


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

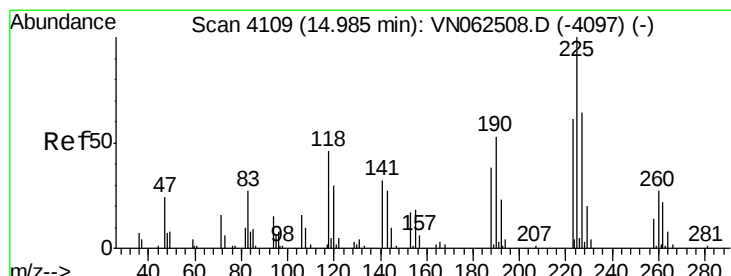
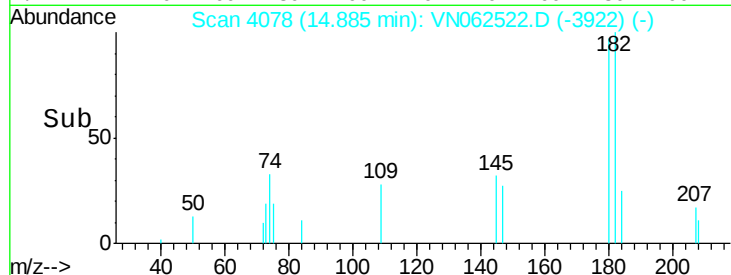
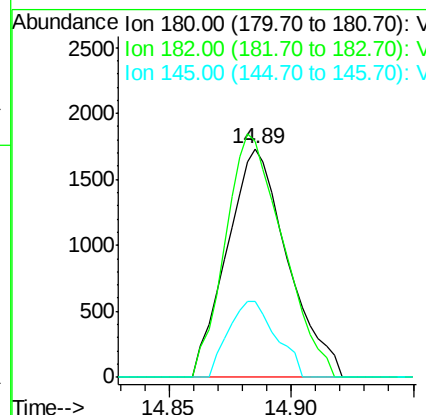
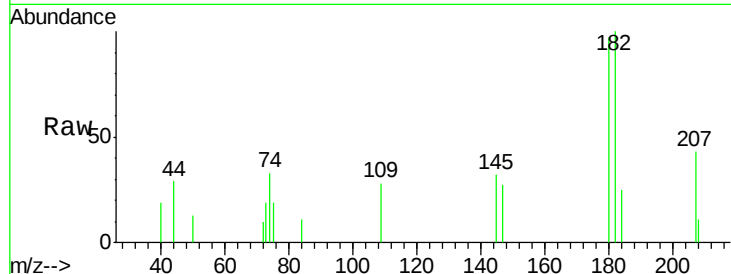




#89
 1,2,4-Trichlorobenzene
 Concen: 1.359 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

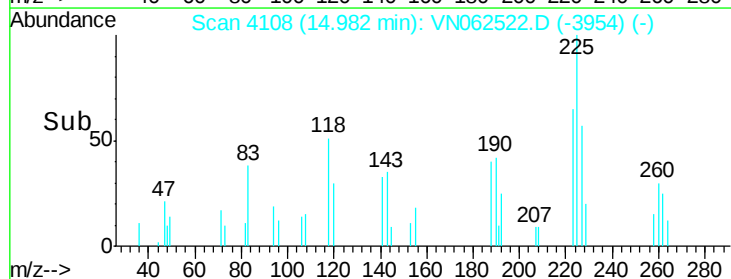
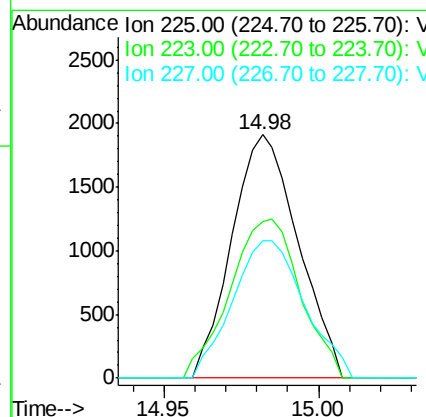
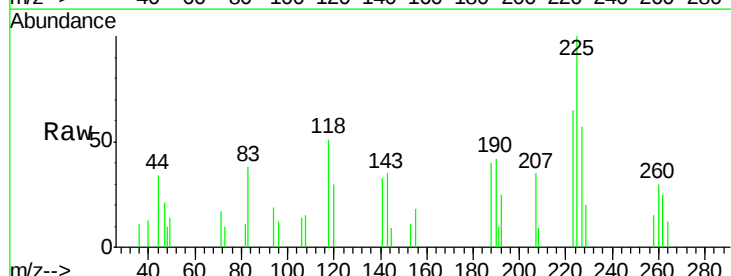
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020

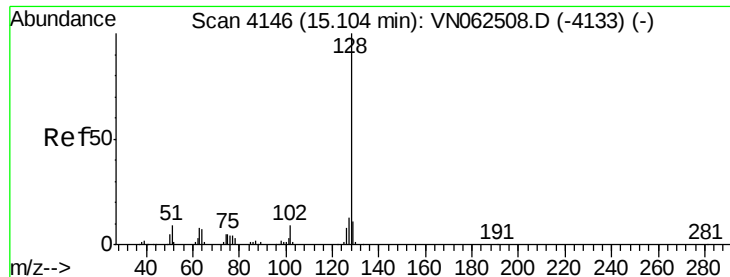
Tot Ion	Ratio	Lower	Upper
180	100		
182	101.9	77.5	116.3
145	26.2	26.1	39.1



#90
 Hexachlorobutadiene
 Concen: 2.341 ug/l
 RT: 14.98 min Scan# 4108
 Delta R.T. -0.00 min
 Lab File: VN062522.D
 Acq: 14 Jul 2020 11:12

Tgt Ion	Ratio	Lower	Upper
225	100		
223	69.0	0.0	120.4
227	61.1	0.0	129.6

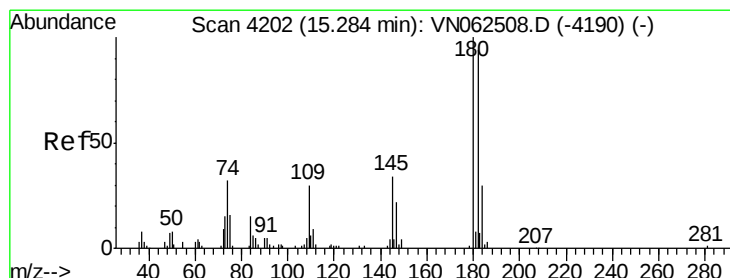
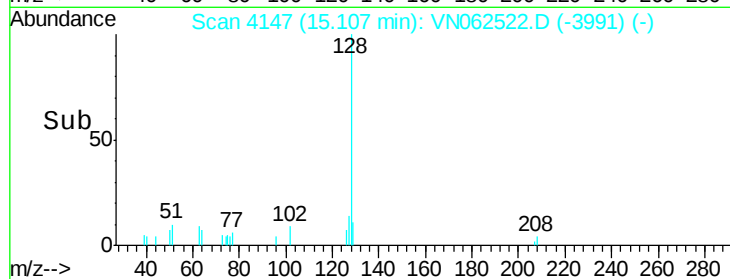
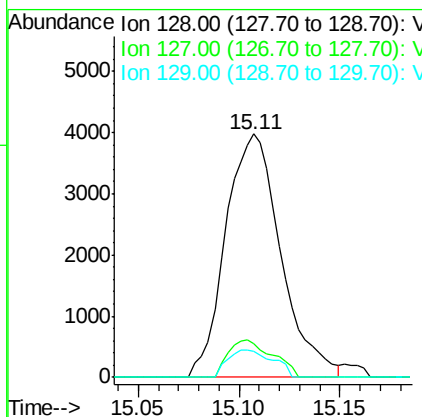
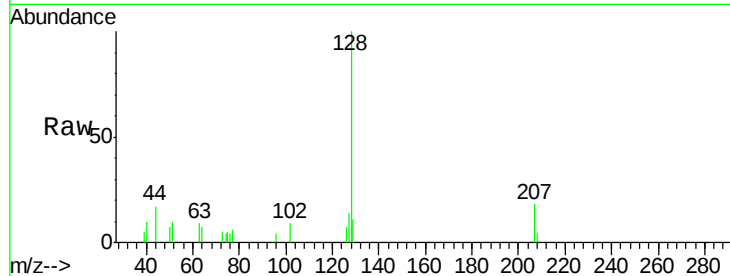




#91
Naphthalene
Concen: 1.279 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion:128 Resp: 7608
Ion Ratio Lower Upper
128 100
127 12.4 10.0 15.0
129 9.3 8.8 13.2



#92
1,2,3-Trichlorobenzene
Concen: 1.498 ug/l
RT: 15.28 min Scan# 4202
Delta R.T. -0.00 min
Lab File: VN062522.D
Acq: 14 Jul 2020 11:12

Tgt Ion:180 Resp: 3311
Ion Ratio Lower Upper
180 100
182 94.3 0.0 187.2
145 40.0 0.0 67.8

