

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN020620\
 Data File : VN060007.D
 Acq On : 6 Feb 2020 10:35
 Operator : JC/MD
 Sample : VN0206WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0206WBL01

Quant Time: Feb 06 16:55:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	187379	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	291353	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	257642	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	101782	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	107502	51.66	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.56	113	88474	50.92	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.08	98	345149	51.27	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.40	95	114187	47.05	ug/l	0.00
Spiked Amount						

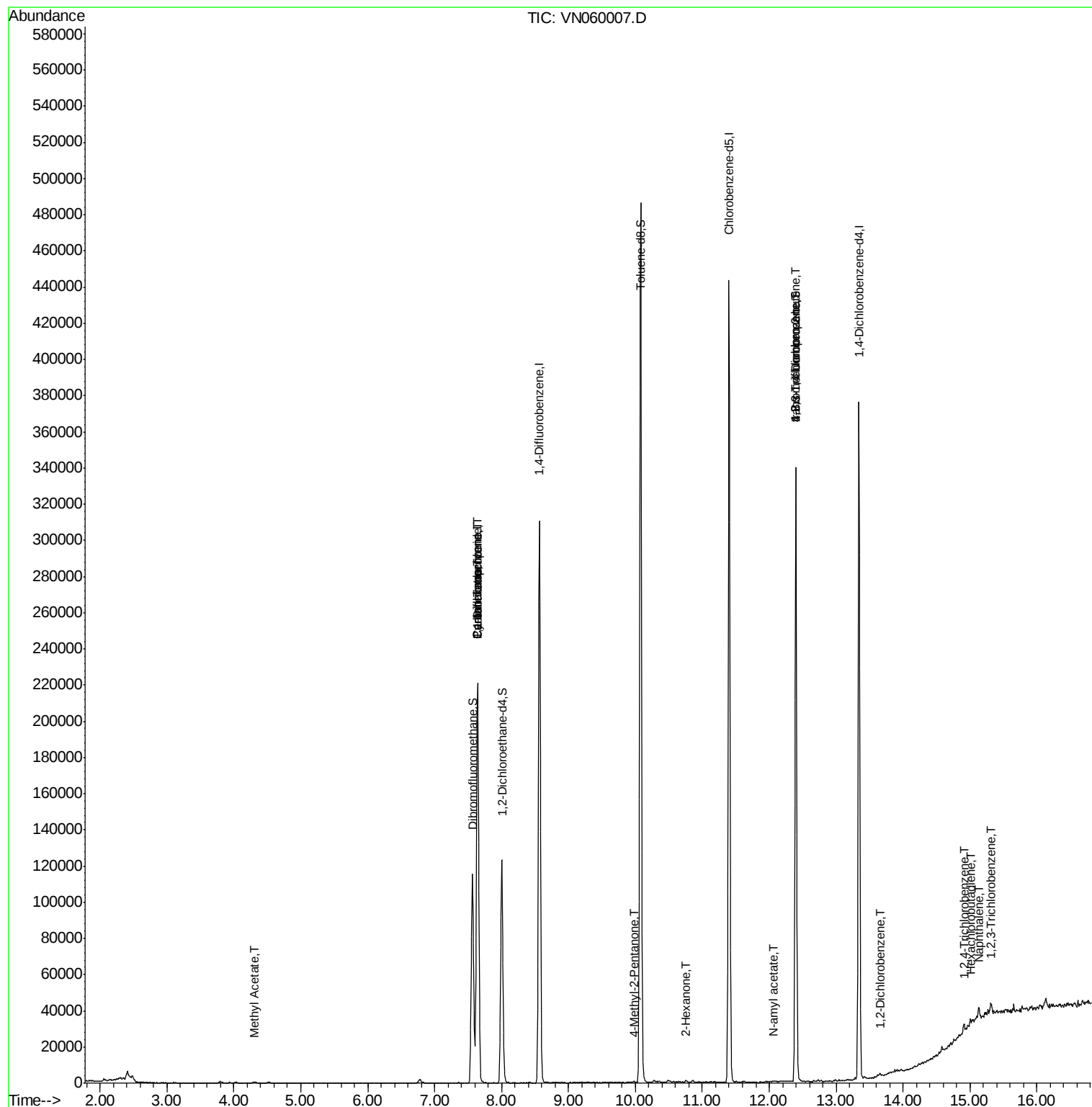
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	1593	Below Cal	#	45
18) Methyl Acetate	4.31	43	1006	0.41	ug/l	# 54
20) Methylene Chloride	4.52	84	284	Below Cal	#	17
31) Cyclohexane	7.64	56	3691	1.20	ug/l	# 4
36) 1,1-Dichloropropene	7.64	75	13232	5.22	ug/l	# 49
38) Carbon Tetrachloride	7.64	117	17938	6.50	ug/l	# 16
51) 4-Methyl-2-Pentanone	9.97	43	768	0.32	ug/l	# 58
59) 2-Hexanone	10.75	43	872	0.50	ug/l	# 74
74) N-amyl acetate	12.08	43	597	0.21	ug/l	# 45
76) 1,2,3-Trichloropropane	12.40	75	57707	33.69	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	57707	72.35	ug/l	# 11
91) 1,2-Dichlorobenzene	13.65	146	697	0.21	ug/l	# 80
92) 1,2-Dibromo-3-Chloropropan	14.26	75	188	Below Cal	#	6
93) 1,2,4-Trichlorobenzene	14.91	180	1295	0.66	ug/l	# 91
94) Hexachlorobutadiene	15.01	225	552	0.51	ug/l	# 94
95) Naphthalene	15.13	128	5985	1.08	ug/l	# 98
96) 1,2,3-Trichlorobenzene	15.31	180	2247	1.18	ug/l	# 96

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

Instrument :

MSVOA_N

ClientSampleId :

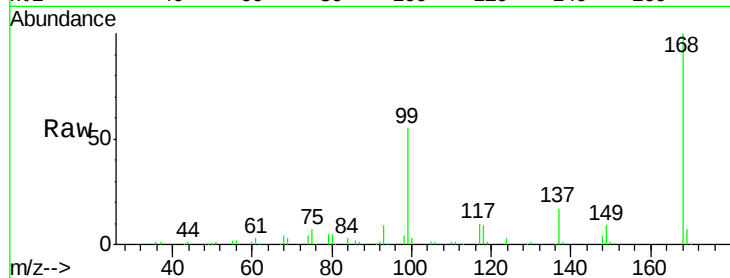
VN0206WBL01

Tgt Ion:168 Resp: 187379

Ion Ratio Lower Upper

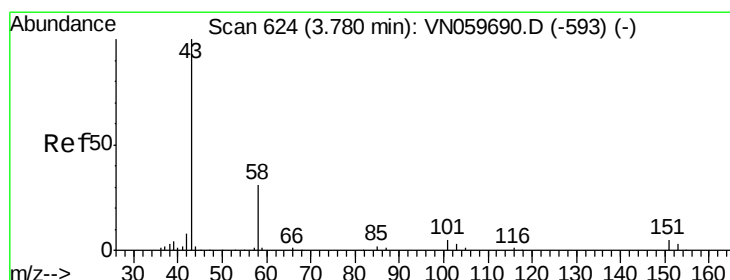
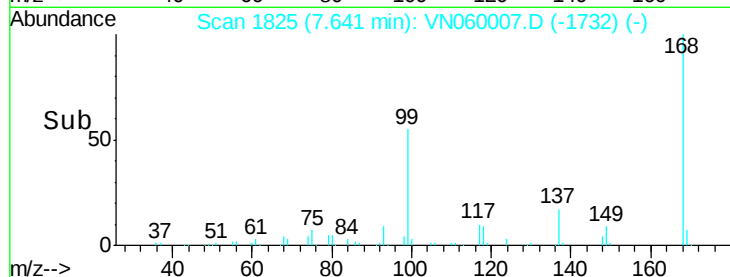
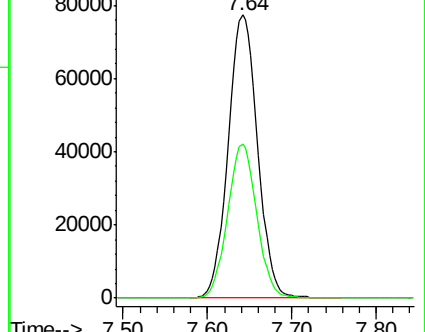
168 100

99 54.7 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN060007.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN060007.D (-1732) (-)



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 631

Delta R.T. 0.02 min

Lab File: VN060007.D

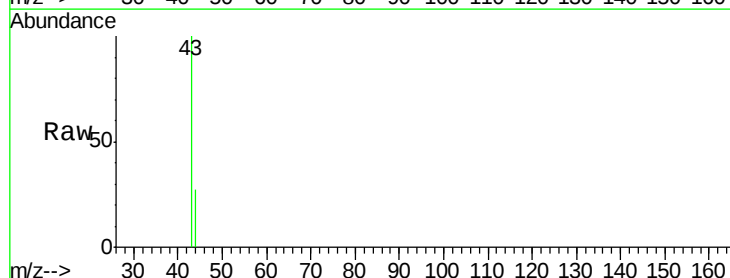
Acq: 6 Feb 2020 10:35

Tgt Ion: 43 Resp: 1593

Ion Ratio Lower Upper

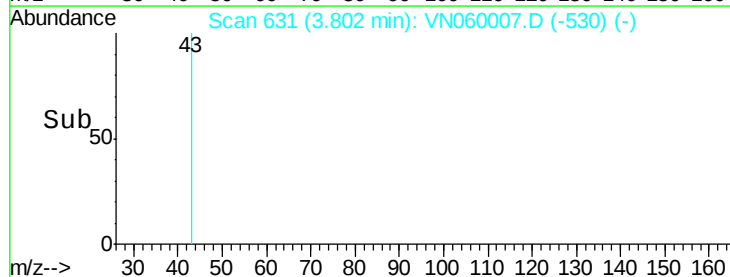
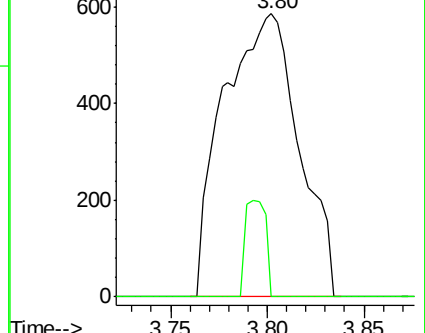
43 100

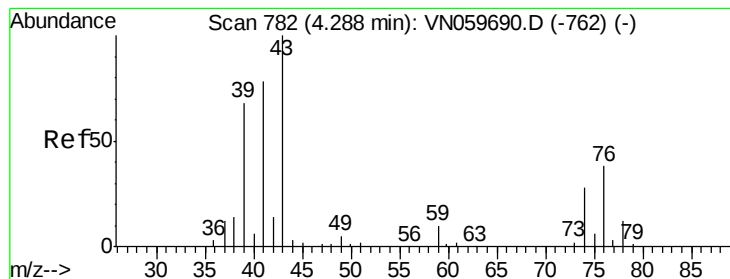
58 0.0 23.6 35.4#



Abundance Ion 43.00 (42.70 to 43.70): VN060007.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN060007.D (-530) (-)





#18

Methyl Acetate

Concen: 0.41 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.02 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

Instrument :

MSVOA_N

ClientSampled :

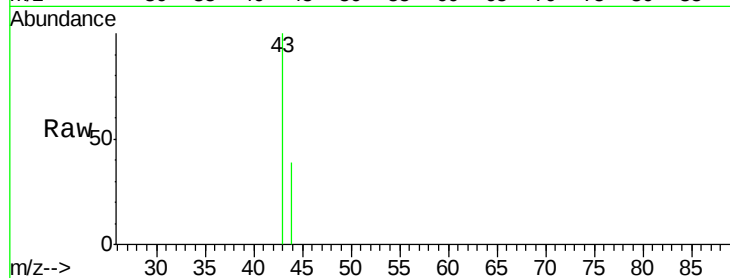
VN0206WBL01

Tgt Ion: 43 Resp: 1006

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.31

400

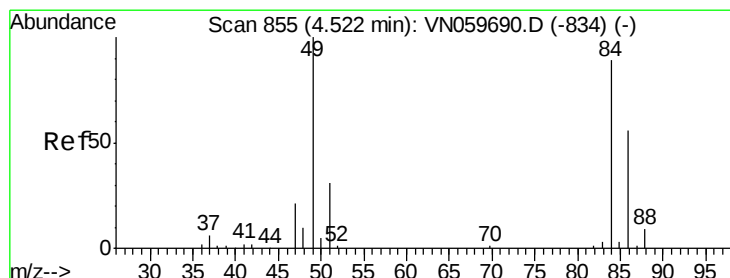
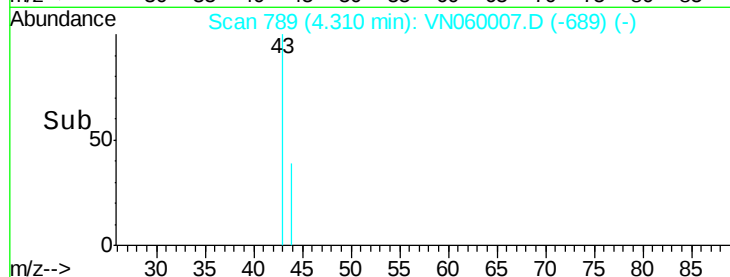
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.52 min Scan# 855

Delta R.T. 0.00 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

Tgt Ion: 84 Resp: 284

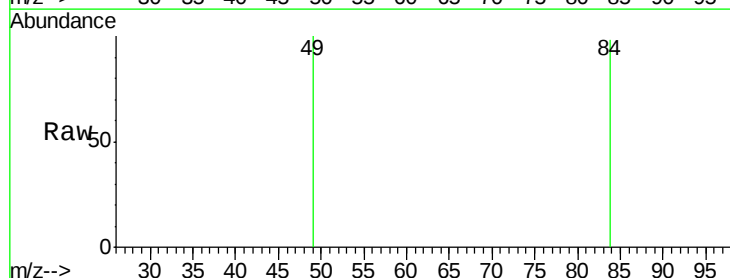
Ion Ratio Lower Upper

84 100

49 27.9 106.6 160.0#

51 0.0 31.9 47.9#

86 0.0 50.8 76.2#



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

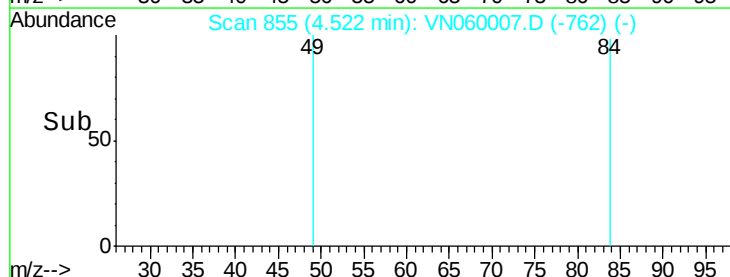
300

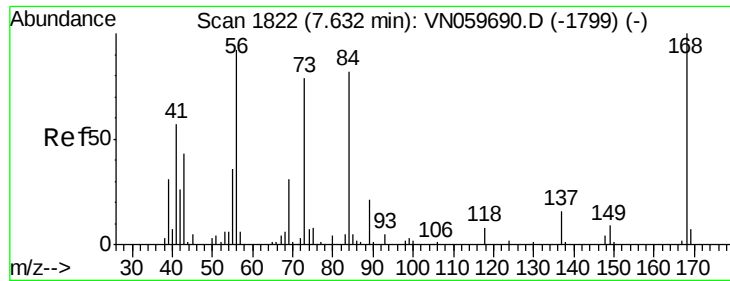
200

100

0

Time-->

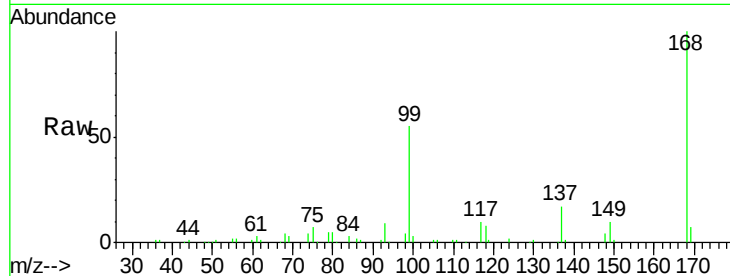




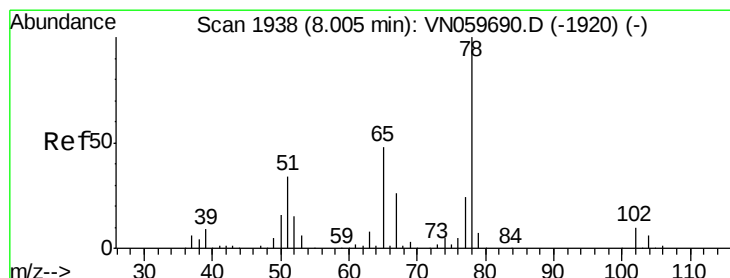
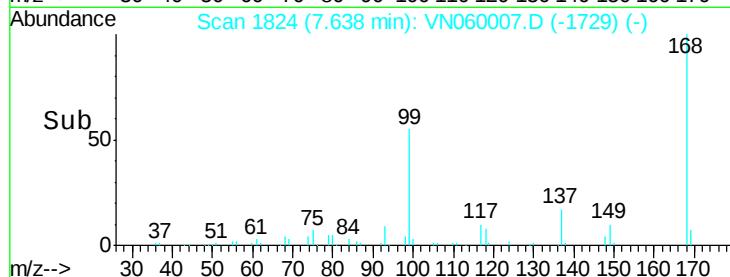
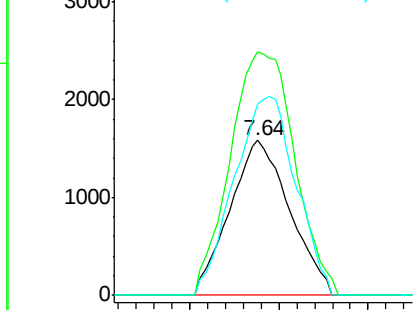
#31
Cyclohexane
Concen: 1.20 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060007.D
Acq: 6 Feb 2020 10:35

Instrument :
MSVOA_N
ClientSampleId :
VN0206WBL01

Tgt Ion: 56 Resp: 3691
Ion Ratio Lower Upper
56 100
69 157.0 26.5 39.7#
84 123.2 65.3 97.9#

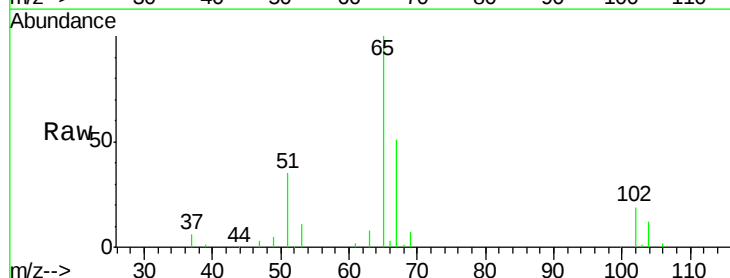


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

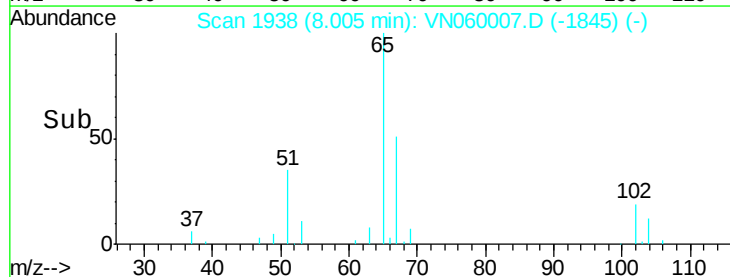
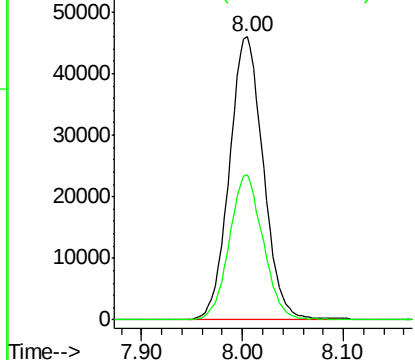


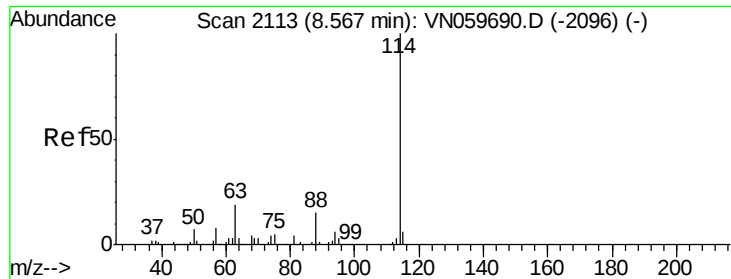
#33
1,2-Dichloroethane-d4
Concen: 51.66 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060007.D
Acq: 6 Feb 2020 10:35

Tgt Ion: 65 Resp: 107502
Ion Ratio Lower Upper
65 100
67 51.0 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

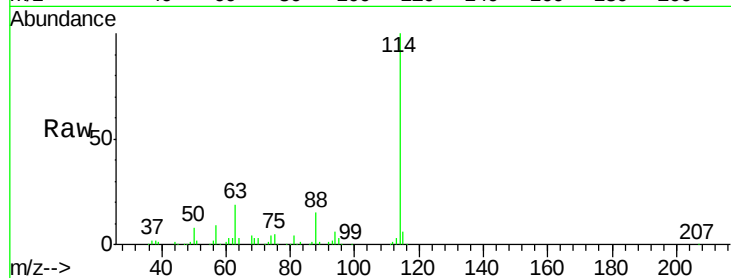




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060007.D
 Acq: 6 Feb 2020 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0206WBL01

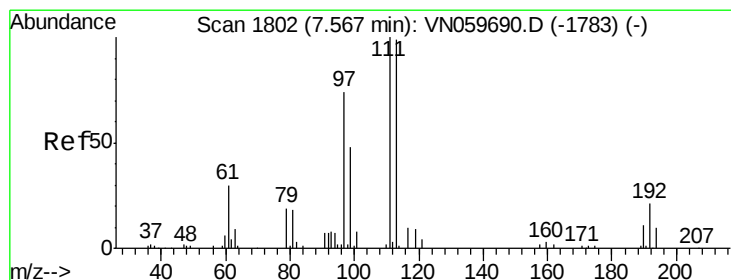
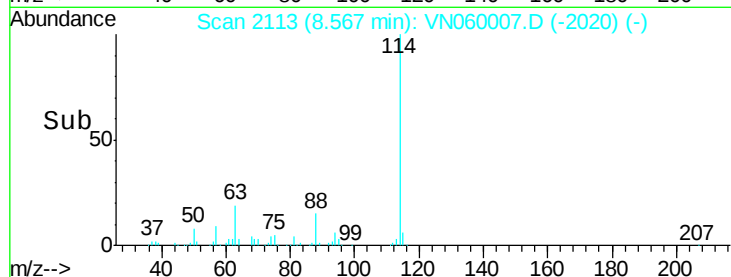
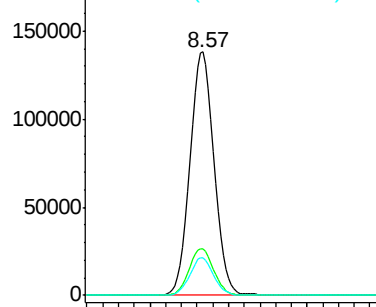
Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	43.6
88	15.4	0.0	31.4



Abundance Ion 113.90 (113.60 to 114.60): V

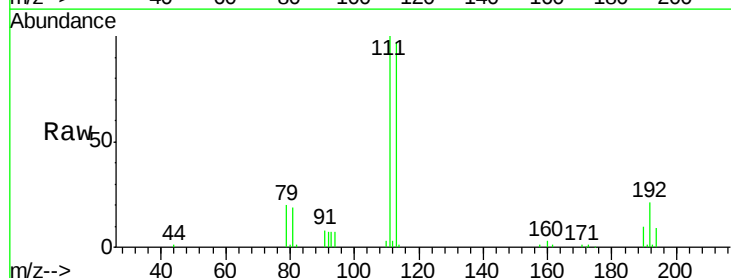
Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35
 Dibromofluoromethane
 Concen: 50.92 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060007.D
 Acq: 6 Feb 2020 10:35

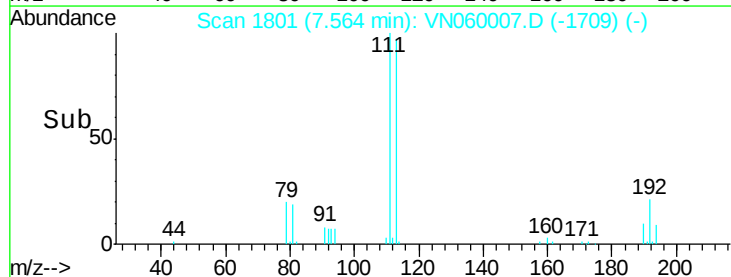
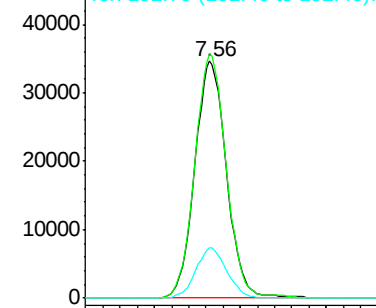
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.5	125.3
192	20.7	15.4	23.2

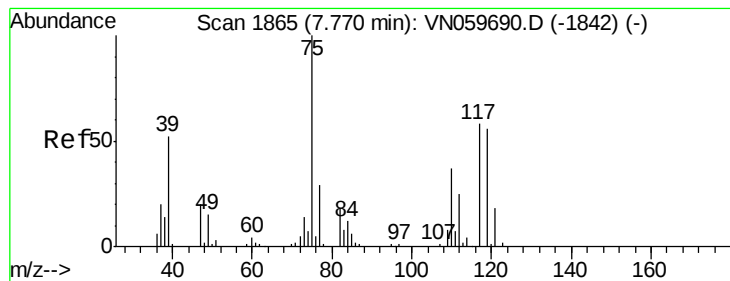


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.22 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

Instrument :

MSVOA_N

ClientSampleId :

VN0206WBL01

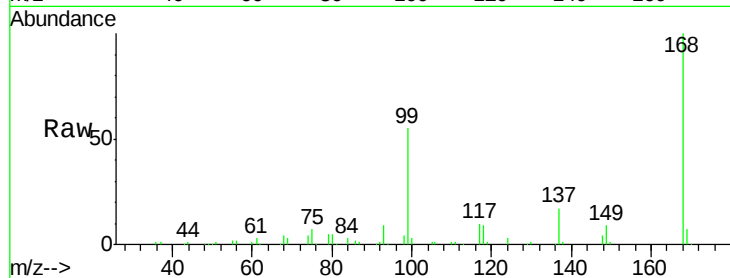
Tgt Ion: 75 Resp: 13232

Ion Ratio Lower Upper

75 100

110 7.9 16.6 49.7#

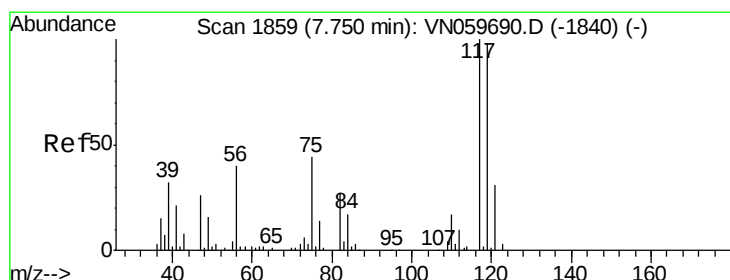
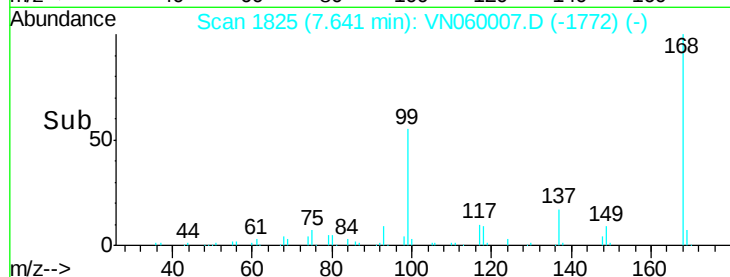
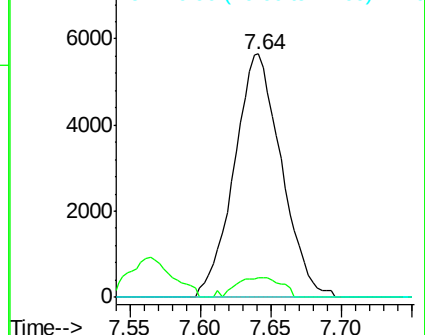
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 6.50 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

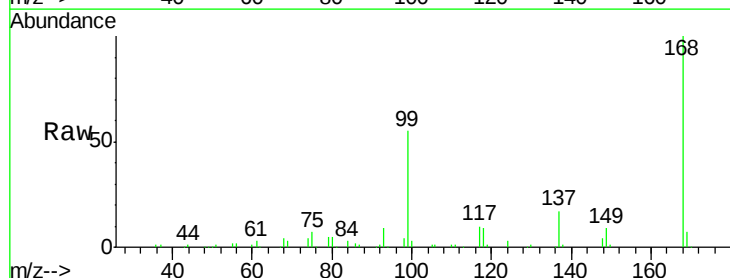
Tgt Ion: 117 Resp: 17938

Ion Ratio Lower Upper

117 100

119 5.4 76.5 114.7#

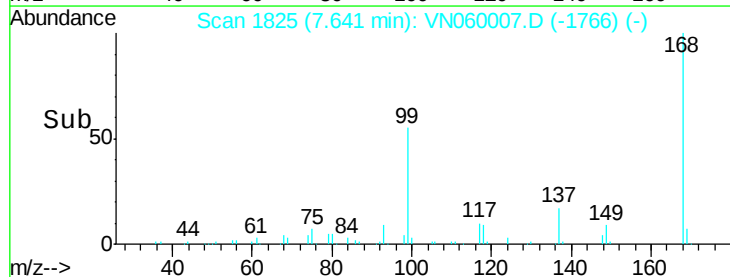
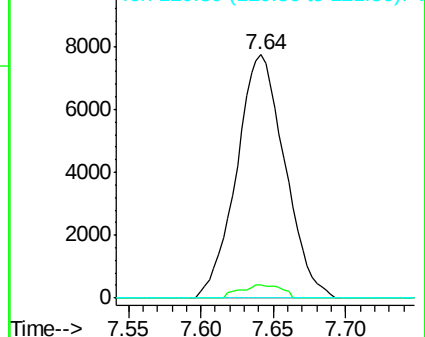
121 0.0 25.1 37.7#

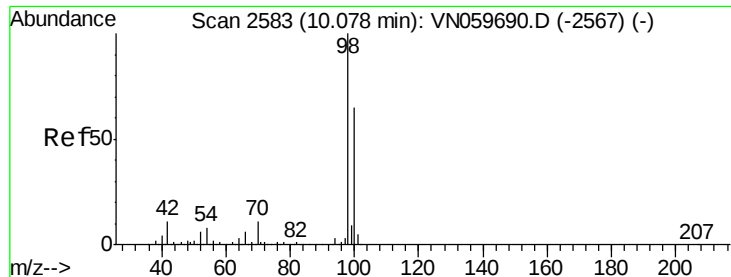


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 51.27 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

Instrument :

MSVOA_N

ClientSampleId :

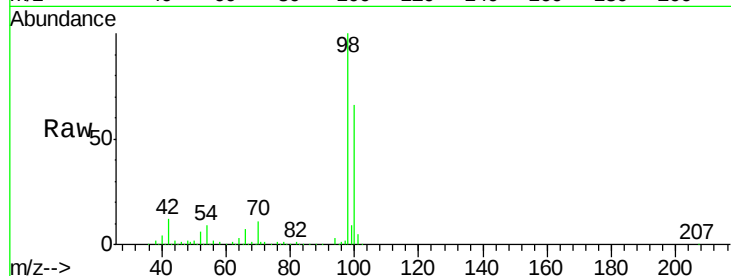
VN0206WBL01

Tgt Ion: 98 Resp: 345149

Ion Ratio Lower Upper

98 100

100 65.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

200000

150000

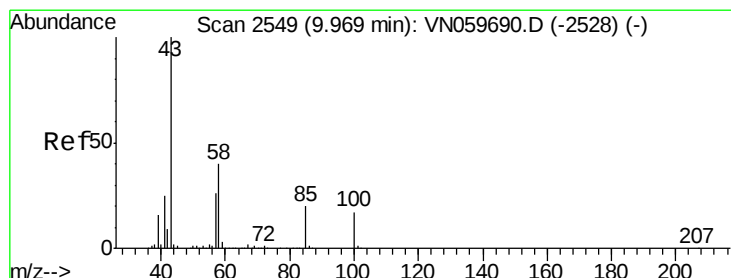
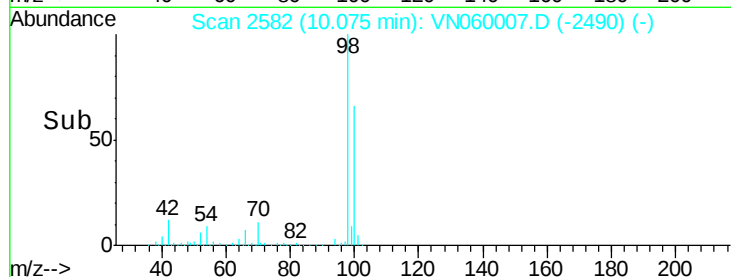
100000

50000

0

Time-->

10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 0.32 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060007.D

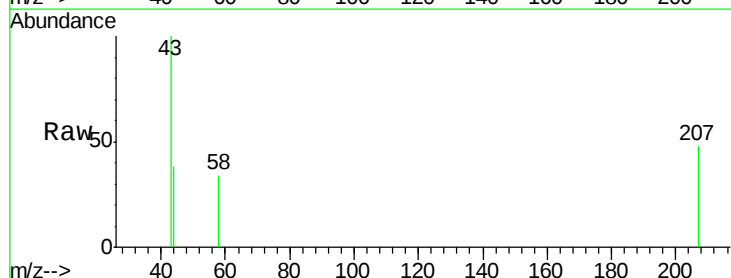
Acq: 6 Feb 2020 10:35

Tgt Ion: 43 Resp: 768

Ion Ratio Lower Upper

43 100

58 12.2 29.8 44.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.97

500

400

300

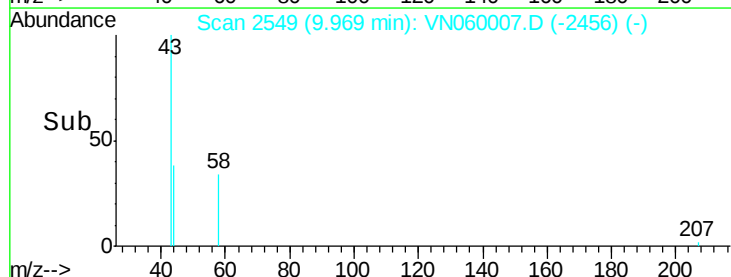
200

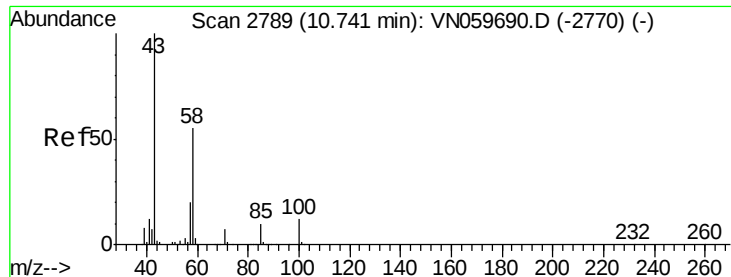
100

0

Time-->

9.95 10.00

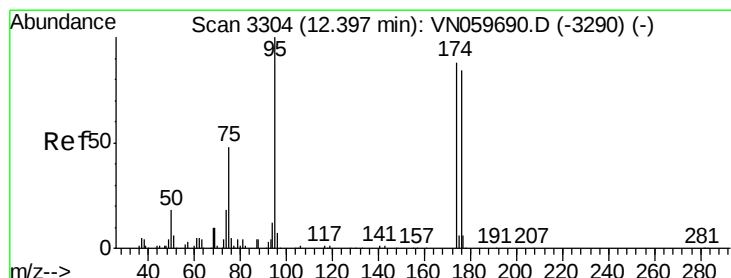
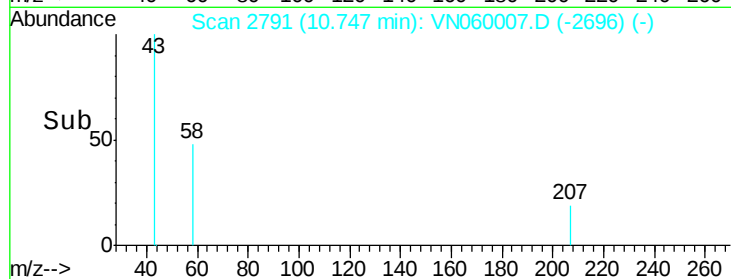
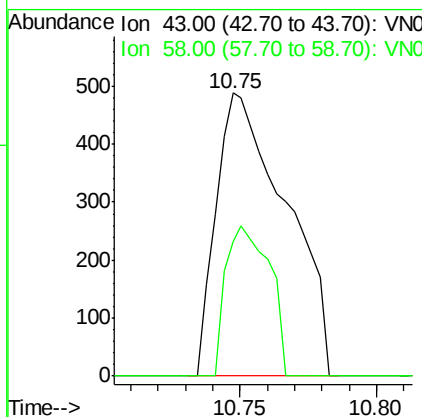
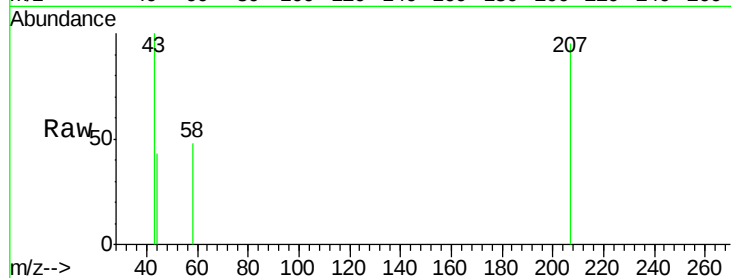




#59
2-Hexanone
Concen: 0.50 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.01 min
Lab File: VN060007.D
Acq: 6 Feb 2020 10:35

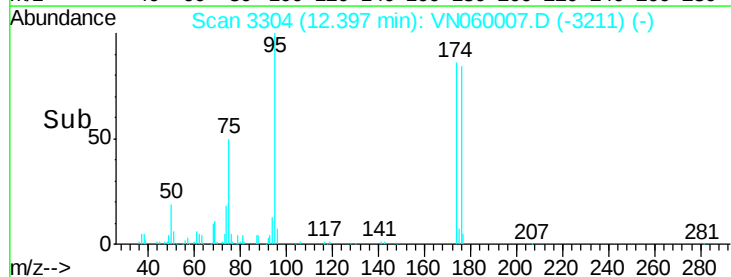
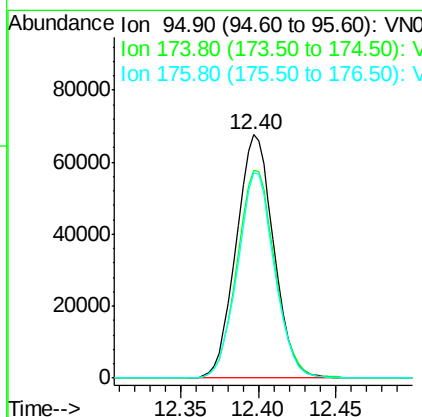
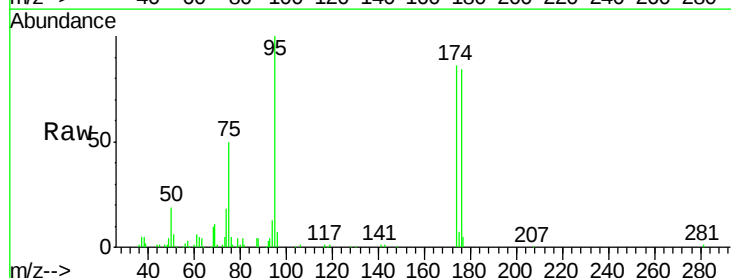
Instrument :
MSVOA_N
ClientSampled :
VN0206WBL01

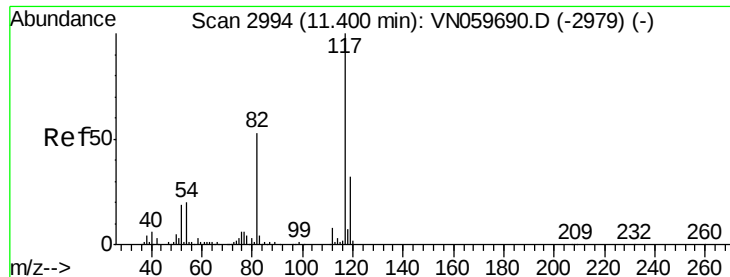
Tgt Ion: 43 Resp: 872
Ion Ratio Lower Upper
43 100
58 33.0 25.8 77.3



#62
4-Bromofluorobenzene
Concen: 47.05 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060007.D
Acq: 6 Feb 2020 10:35

Tgt Ion: 95 Resp: 114187
Ion Ratio Lower Upper
95 100
174 86.4 0.0 151.4
176 83.0 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

Instrument :

MSVOA_N

ClientSampleId :

VN0206WBL01

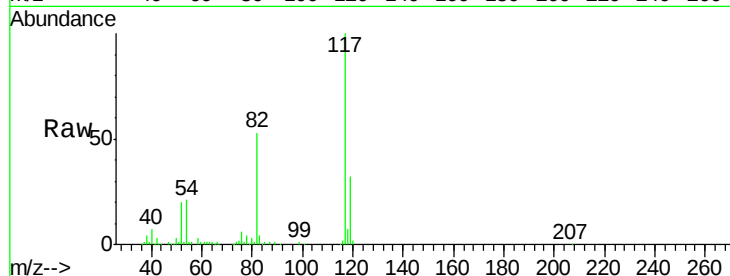
Tgt Ion:117 Resp: 257642

Ion Ratio Lower Upper

117 100

82 52.7 45.9 68.9

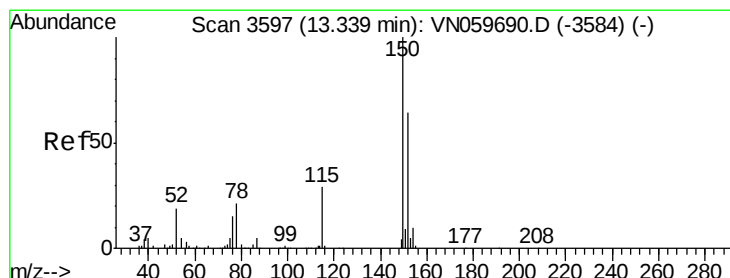
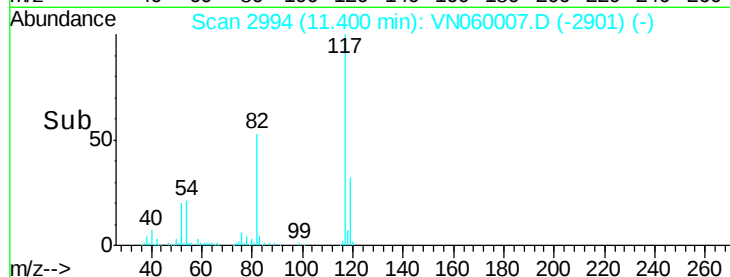
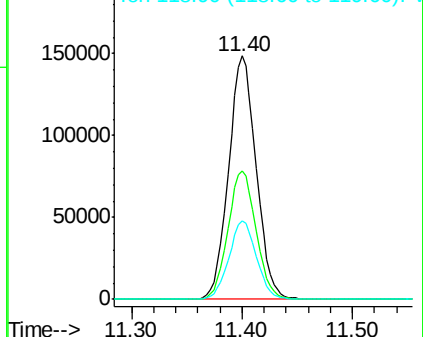
119 32.4 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

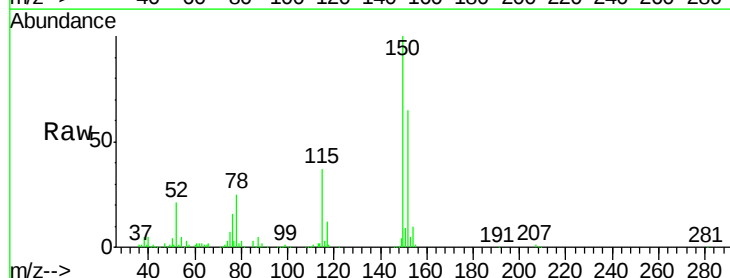
Tgt Ion:152 Resp: 101782

Ion Ratio Lower Upper

152 100

115 59.0 30.3 90.9

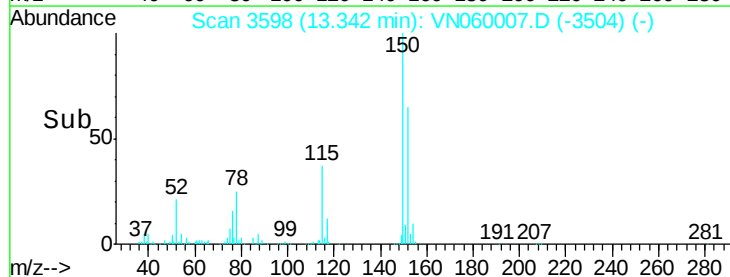
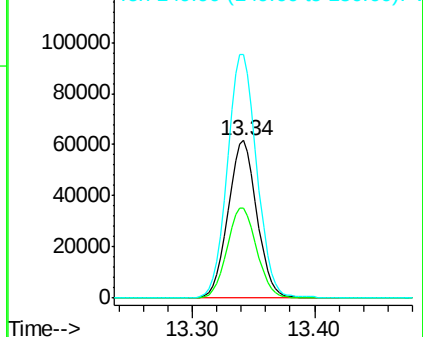
150 158.2 0.0 345.2

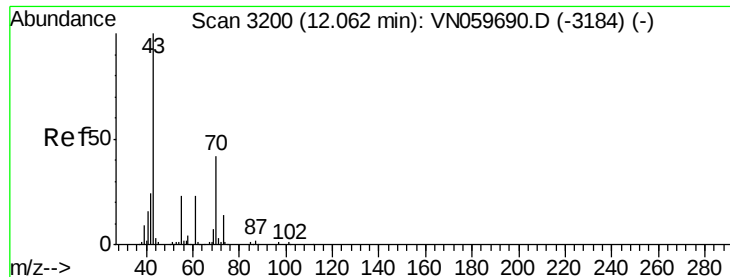


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.21 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

Instrument :

MSVOA_N

ClientSampleId :

VN0206WBL01

Tgt Ion: 43 Resp: 597

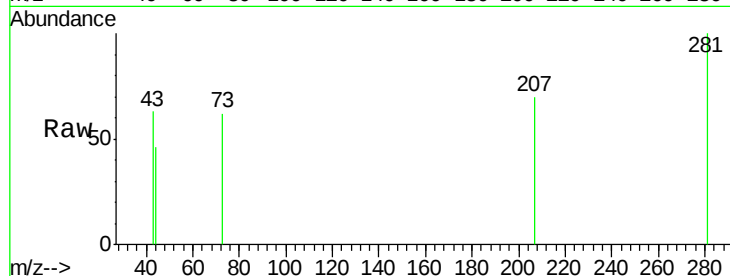
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

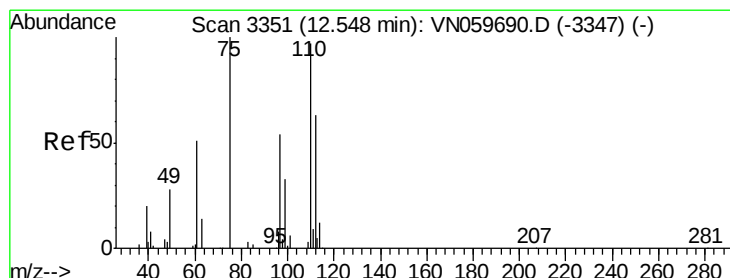
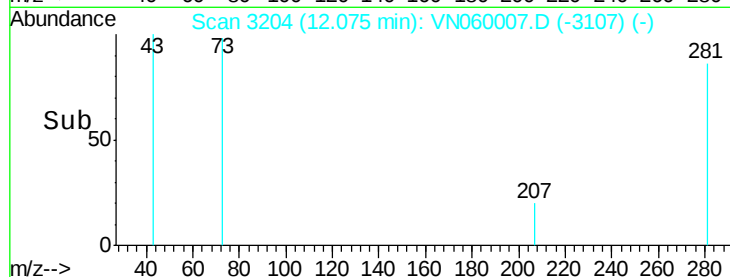
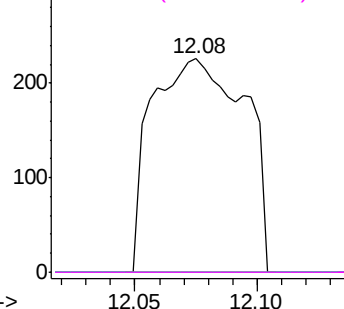


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 33.69 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060007.D

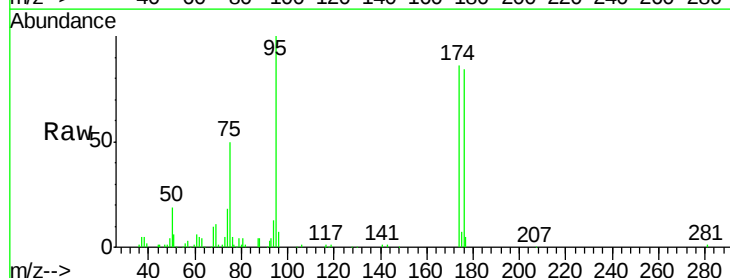
Acq: 6 Feb 2020 10:35

Tgt Ion: 75 Resp: 57707

Ion Ratio Lower Upper

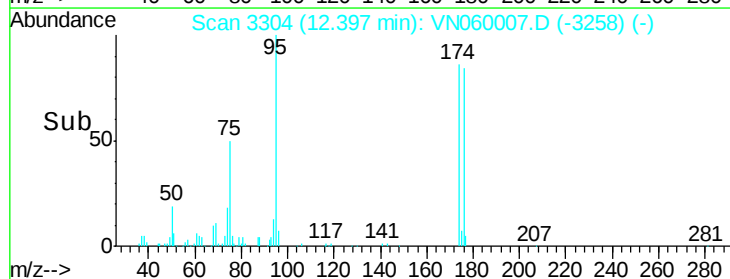
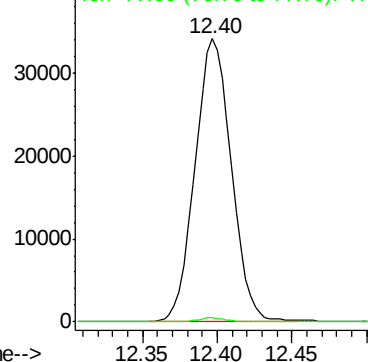
75 100

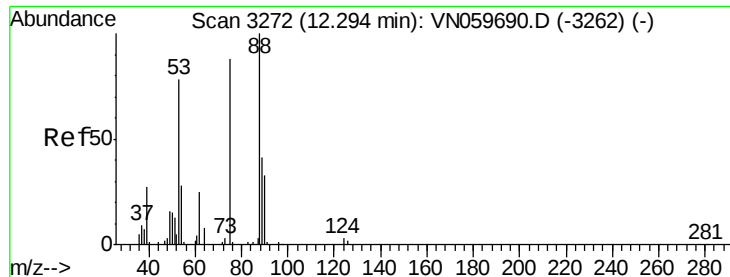
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 72.35 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

Instrument :

MSVOA_N

ClientSampleId :

VN0206WBL01

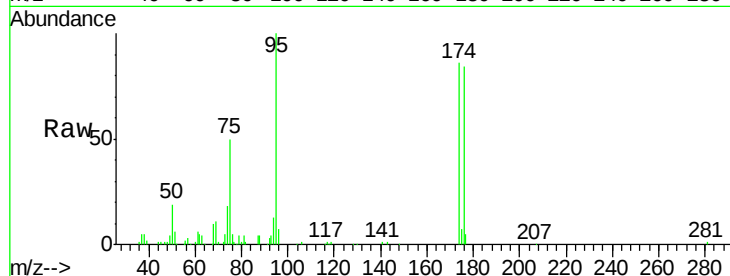
Tgt Ion: 75 Resp: 57707

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

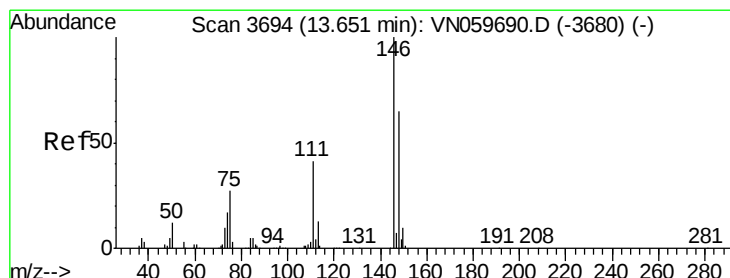
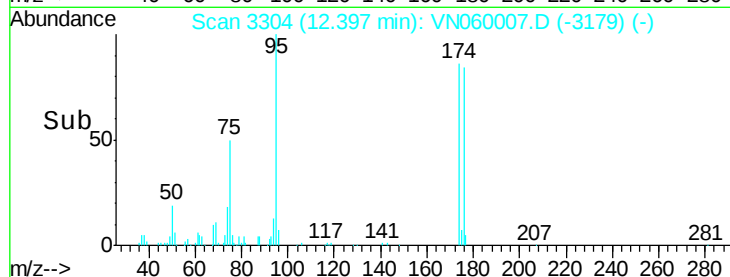
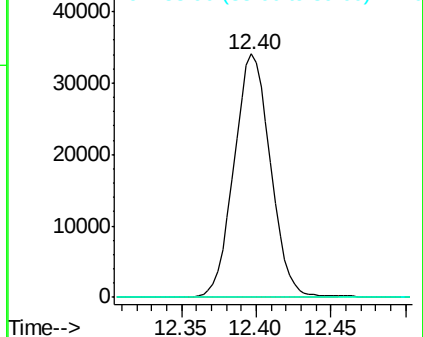
89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060007.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060007.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060007.D (-3179) (-)



#91

1,2-Dichlorobenzene

Concen: 0.21 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

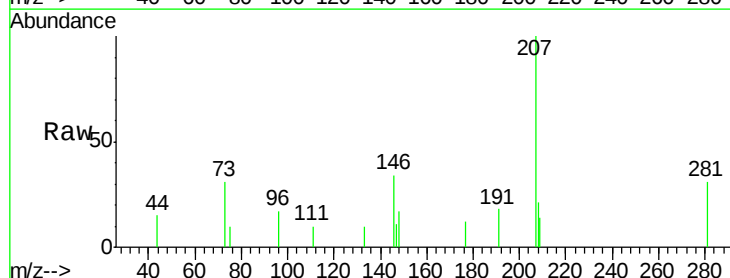
Tgt Ion: 146 Resp: 697

Ion Ratio Lower Upper

146 100

111 22.0 21.6 64.8

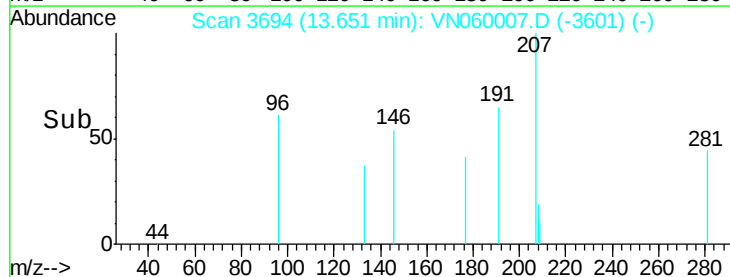
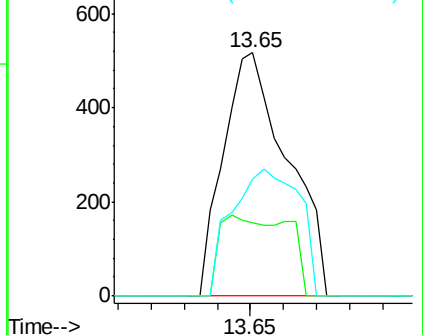
148 54.7 31.6 95.0

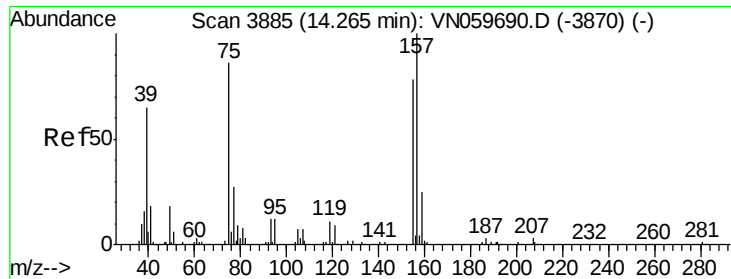


Abundance Ion 145.90 (145.60 to 146.60): VN060007.D (-3601) (-)

Ion 110.90 (110.60 to 111.60): VN060007.D (-3601) (-)

Ion 147.90 (147.60 to 148.60): VN060007.D (-3601) (-)

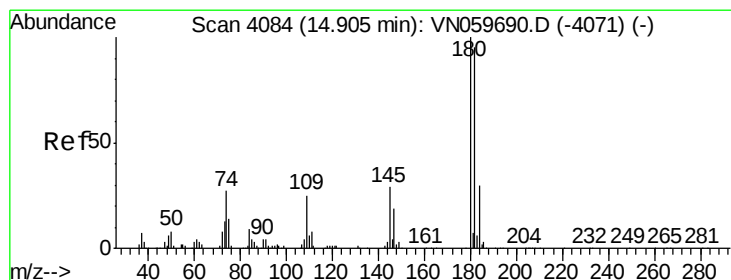
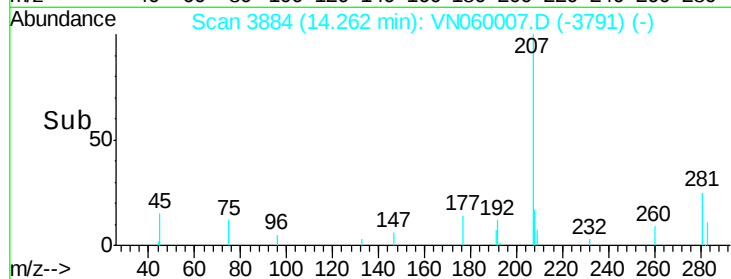
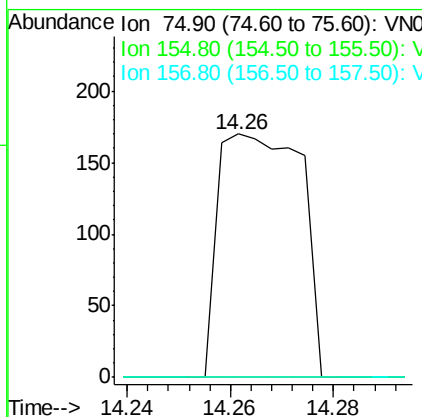
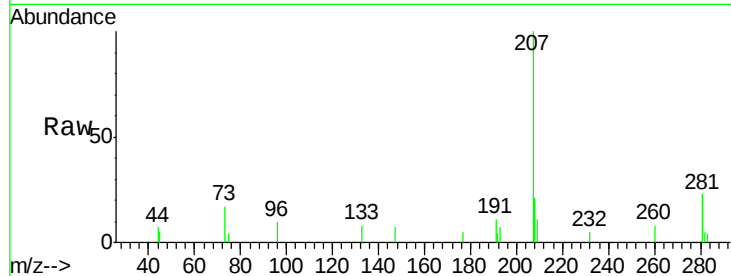




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.26 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VN060007.D
 Acq: 6 Feb 2020 10:35

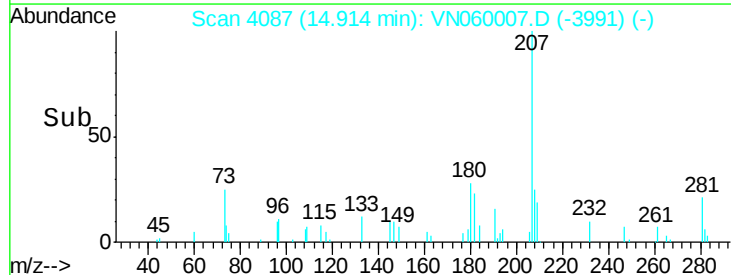
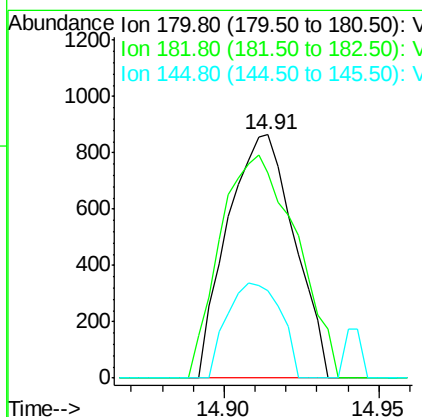
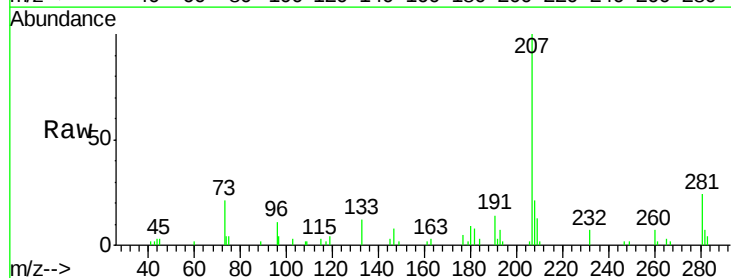
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0206WBL01

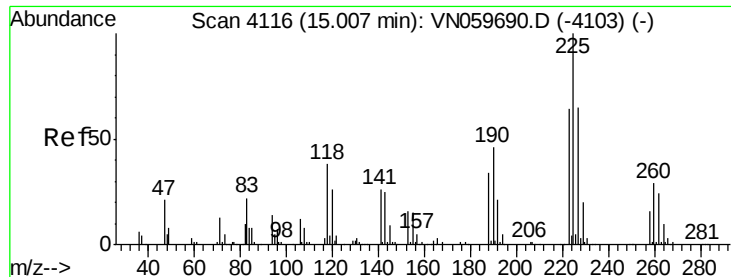
Tgt Ion: 75 Resp: 188
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 110.9#
 157 0.0 48.4 145.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.66 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN060007.D
 Acq: 6 Feb 2020 10:35

Tgt Ion: 180 Resp: 1295
 Ion Ratio Lower Upper
 180 100
 182 104.9 46.9 140.7
 145 31.5 15.0 45.1





#94

Hexachlorobutadiene

Concen: 0.51 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

Instrument :

MSVOA_N

ClientSampled :

VN0206WBL01

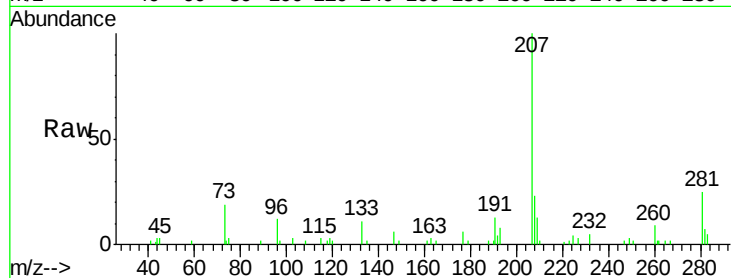
Tgt Ion:225 Resp: 552

Ion Ratio Lower Upper

225 100

223 55.8 31.8 95.3

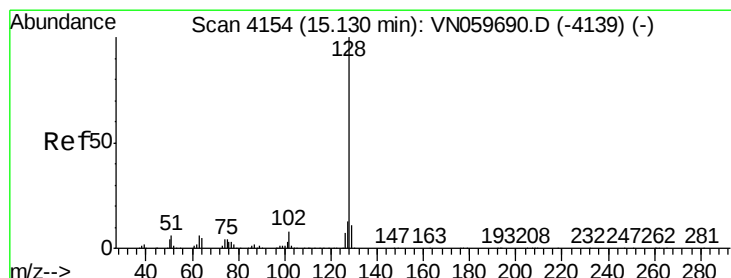
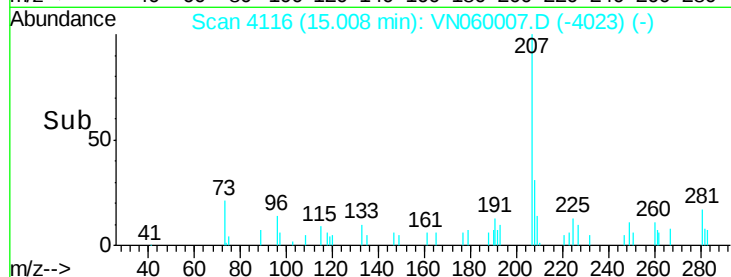
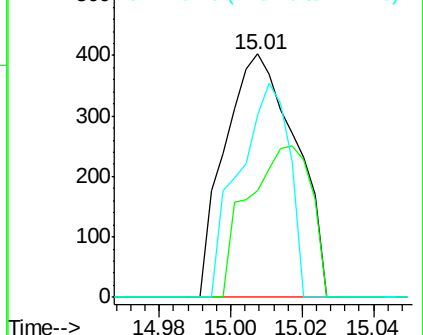
227 62.7 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.08 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN060007.D

Acq: 6 Feb 2020 10:35

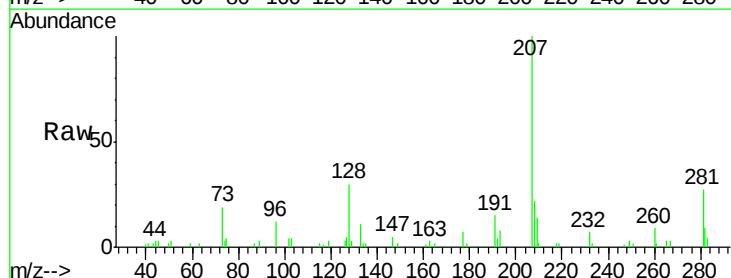
Tgt Ion:128 Resp: 5985

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

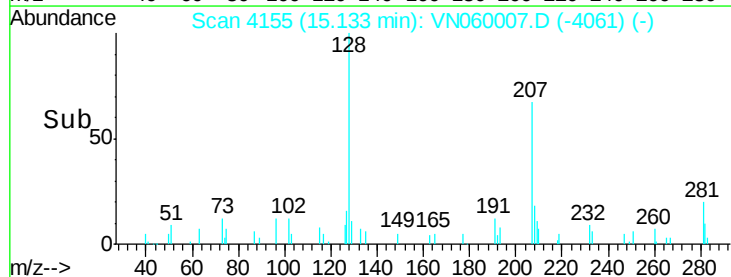
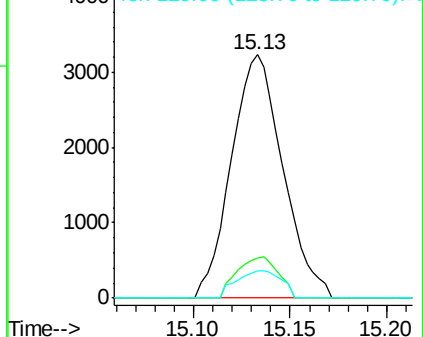
129 9.7 8.6 12.8

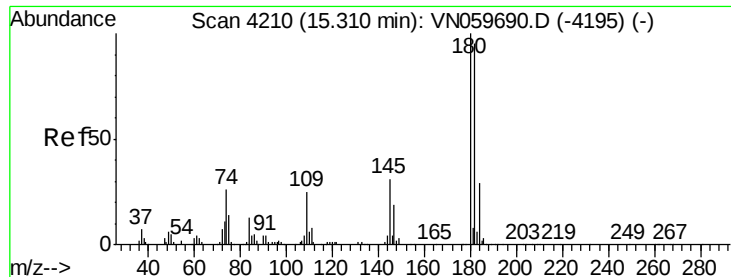


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.18 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN060007.D
 Acq: 6 Feb 2020 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0206WBL01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.5	47.4	142.3
145	31.6	16.3	48.9

