

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061119\
 Data File : VN056210.D
 Acq On : 11 Jun 2019 9:46
 Operator : JC/SP
 Sample : VN0611WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611WBL01

Quant Time: Jun 12 06:31:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	311079	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	461418	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	440136	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	132085	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	160654	52.01	ug/l	0.00
Spiked Amount			Recovery	=	104.02%	
35) Dibromofluoromethane	7.59	113	152760	53.96	ug/l	0.00
Spiked Amount			Recovery	=	107.92%	
50) Toluene-d8	10.09	98	591013	54.25	ug/l	0.00
Spiked Amount			Recovery	=	108.50%	
62) 4-Bromofluorobenzene	12.40	95	177742	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	

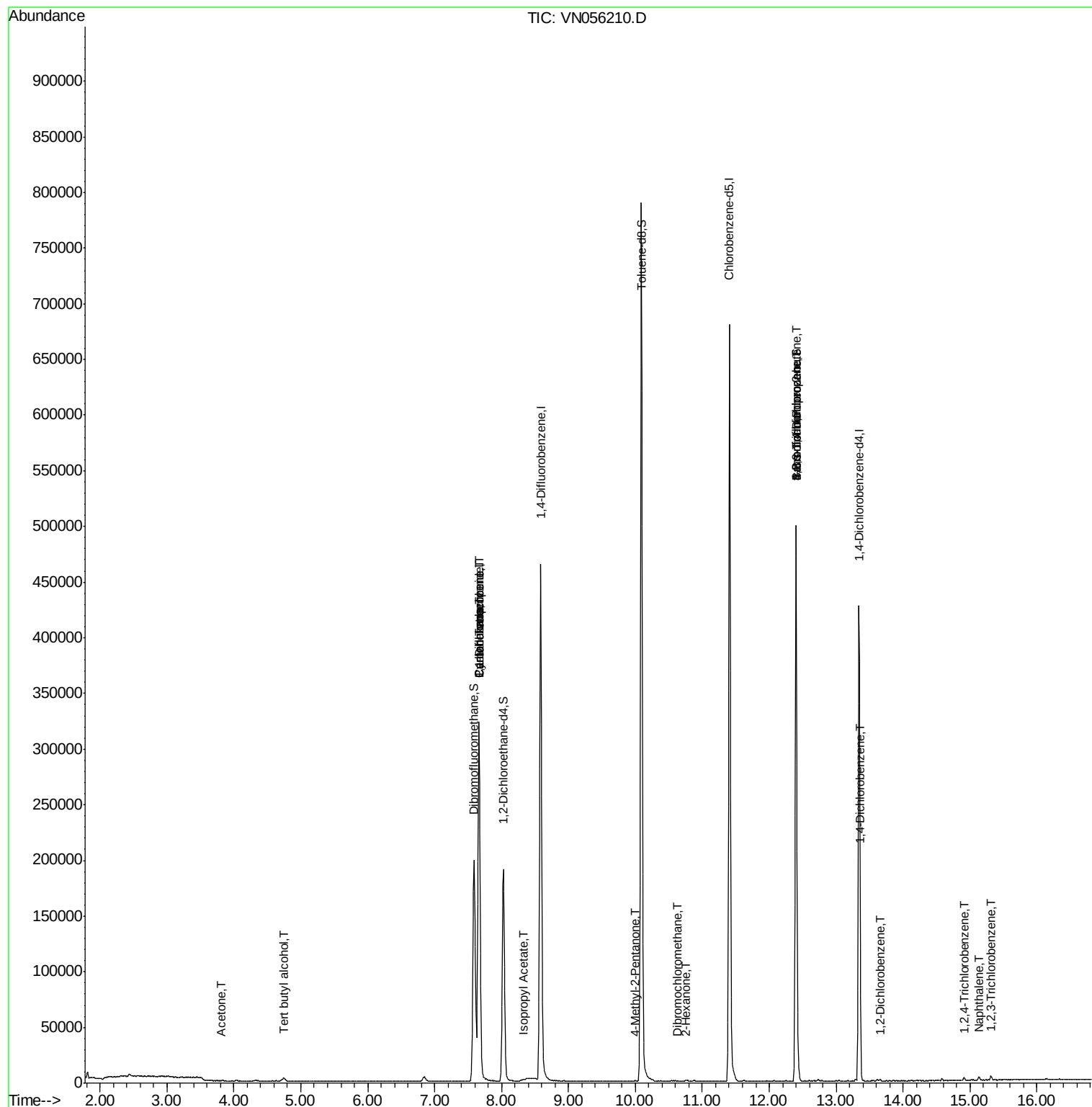
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	2931	5.453	ug/l #	74
16) Acetone	3.82	43	309	0.209	ug/l #	41
18) Methyl Acetate	4.34	43	917	Below Cal	#	51
31) Cyclohexane	7.66	56	4594	0.937	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17795	4.485	ug/l #	48
38) Carbon Tetrachloride	7.66	117	25214	6.893	ug/l #	14
43) Isopropyl Acetate	8.32	43	1570	0.274	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	784	0.219	ug/l #	35
59) 2-Hexanone	10.76	43	1174	0.453	ug/l	66
60) Dibromochloromethane	10.63	129	69	2.472	ug/l #	11
71) Bromoform	12.40	173	1202	3.190	ug/l #	1
73) Isopropylbenzene	12.25	105	444	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	81269	33.438	ug/l #	100
79) 2-Chlorotoluene	12.67	91	504	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	81269	111.356	ug/l #	15
83) tert-Butylbenzene	12.99	119	405	Below Cal	#	28
88) 1,4-Dichlorobenzene	13.37	146	844	0.200	ug/l #	25
91) 1,2-Dichlorobenzene	13.65	146	978	0.221	ug/l #	64
93) 1,2,4-Trichlorobenzene	14.91	180	1418	4.802	ug/l	85
94) Hexachlorobutadiene	15.01	225	270	Below Cal	#	43
95) Naphthalene	15.13	128	3454	4.356	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.31	180	1886	3.745	ug/l	97

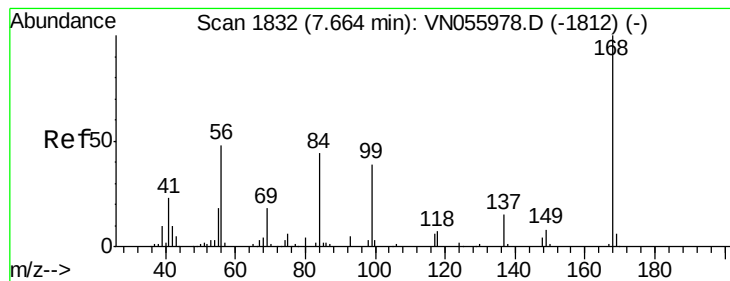
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061119\
Data File : VN056210.D
Acq On : 11 Jun 2019 9:46
Operator : JC/SP
Sample : VN0611WBL01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

Quant Time: Jun 12 06:31:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

Instrument :

MSVOA_N

ClientSampleId :

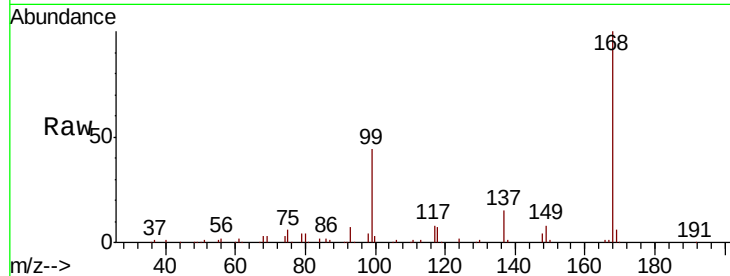
VN0611WBL01

Tot Ion:168 Resp: 311079

Ion Ratio Lower Upper

168 100

99 44.3 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

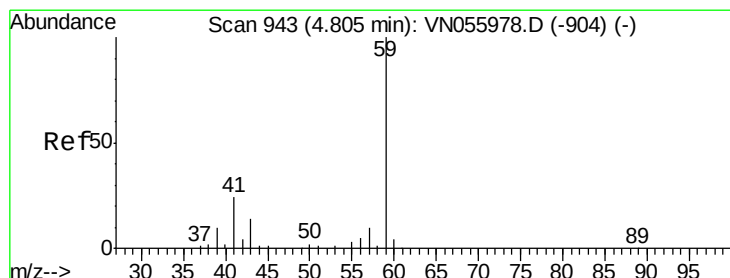
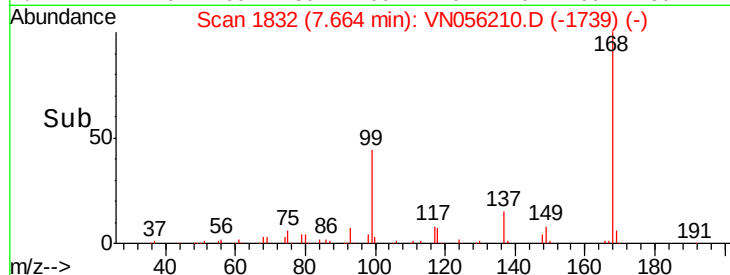
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 5.453 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056210.D

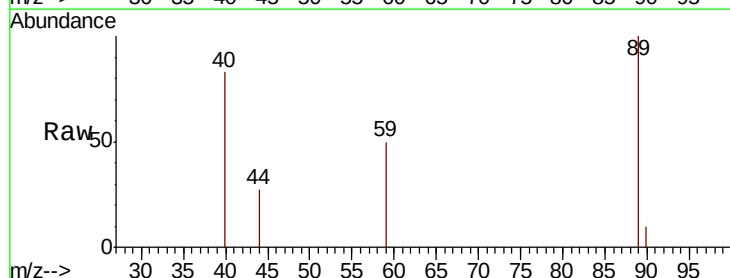
Acq: 11 Jun 2019 9:46

Tgt Ion: 59 Resp: 2931

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

1000

800

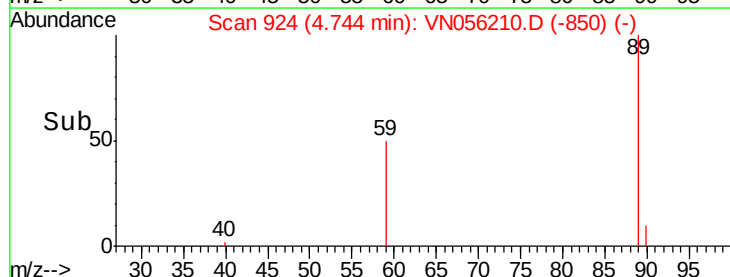
600

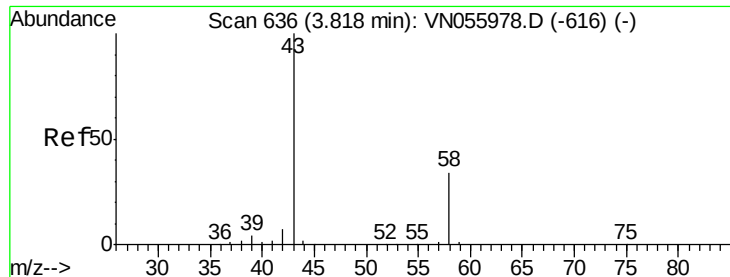
400

200

0

Time-->





#16

Acetone

Concen: 0.209 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

Instrument :

MSVOA_N

ClientSampleId :

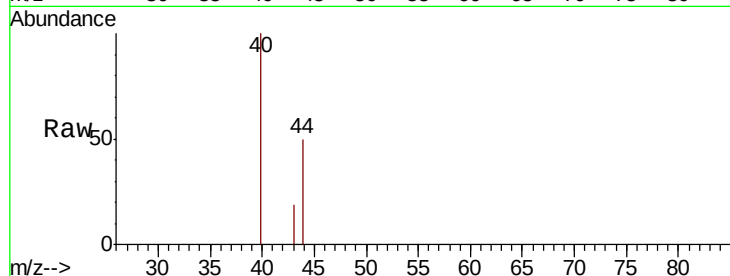
VN0611WBL01

Tot Ion: 43 Resp: 309

Ion Ratio Lower Upper

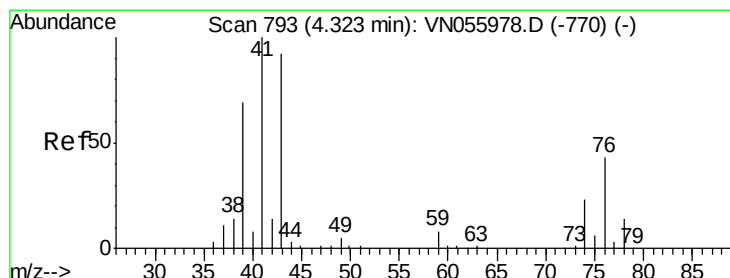
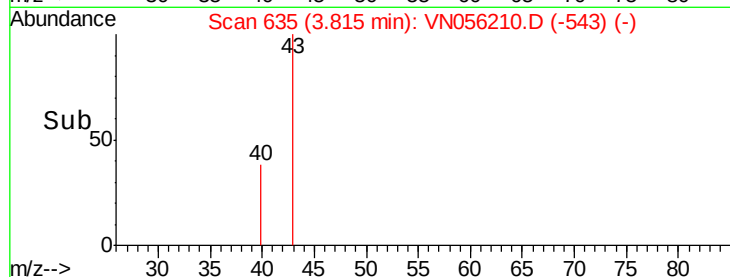
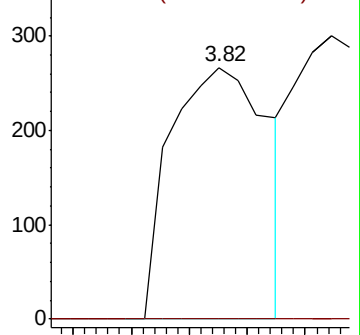
43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN056210.D

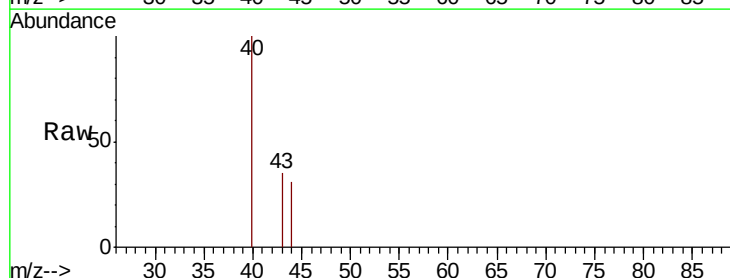
Acq: 11 Jun 2019 9:46

Tgt Ion: 43 Resp: 917

Ion Ratio Lower Upper

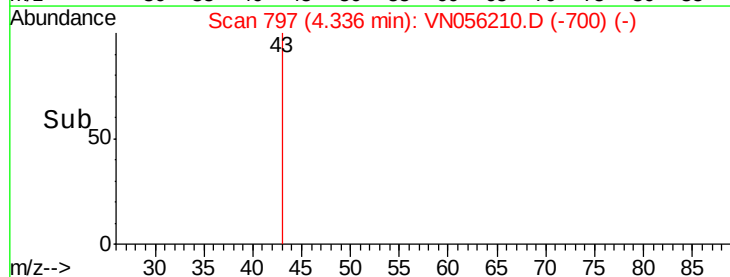
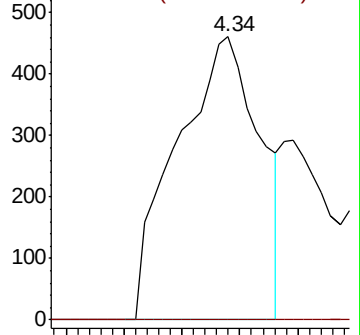
43 100

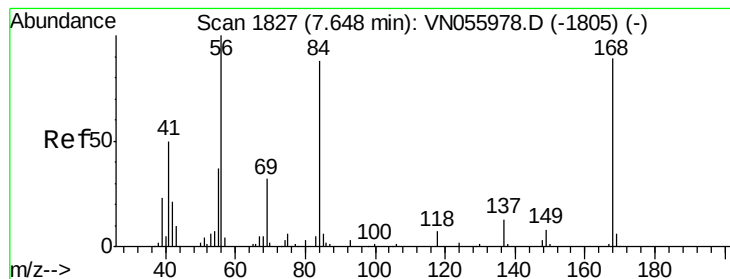
74 0.0 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#31

Cyclohexane

Concen: 0.937 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBL01

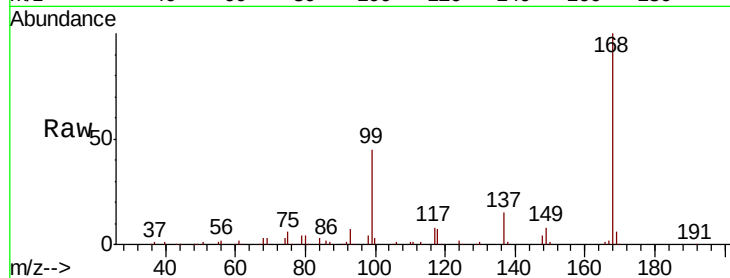
Tot Ion: 56 Resp: 4594

Ion Ratio Lower Upper

56 100

69 163.8 25.6 38.4#

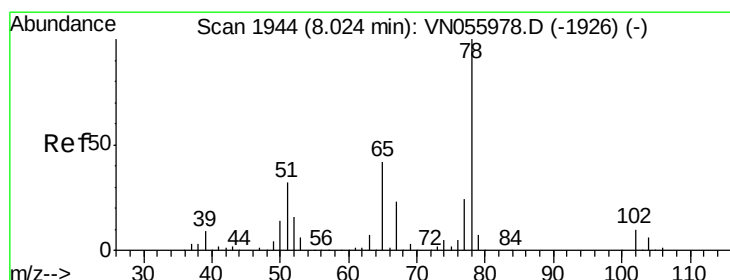
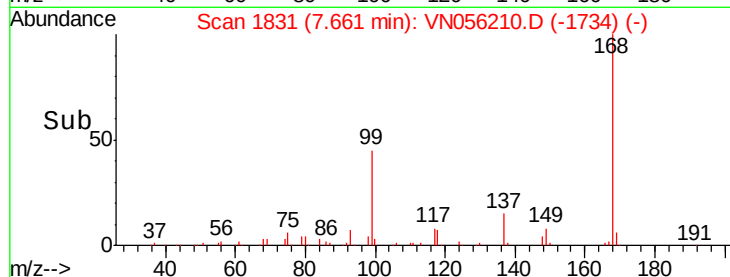
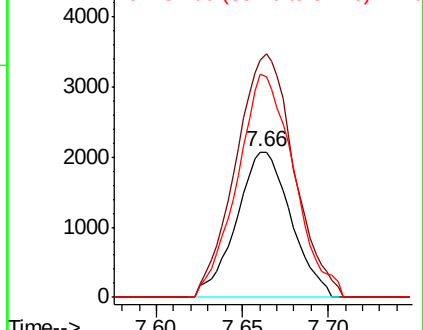
84 153.3 67.4 101.0#



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: 52.013 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056210.D

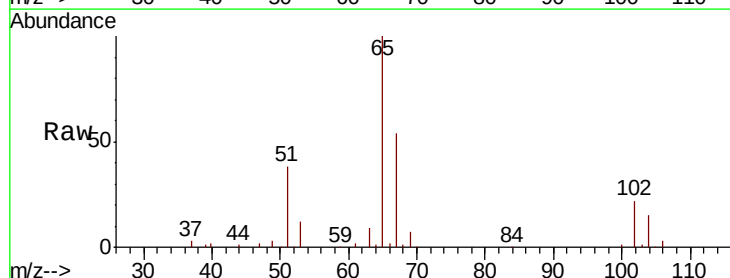
Acq: 11 Jun 2019 9:46

Tgt Ion: 65 Resp: 160654

Ion Ratio Lower Upper

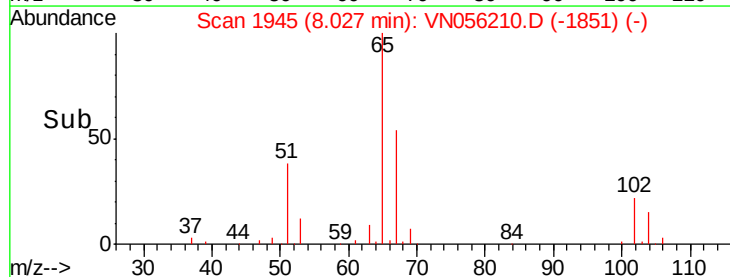
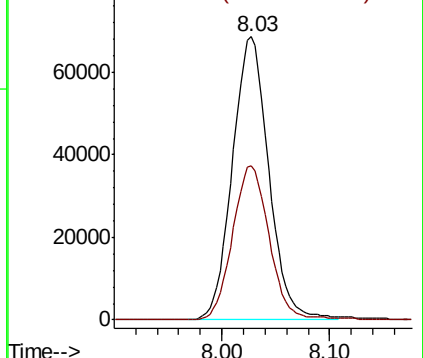
65 100

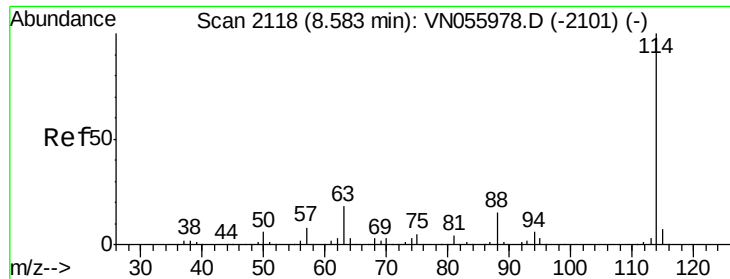
67 54.8 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

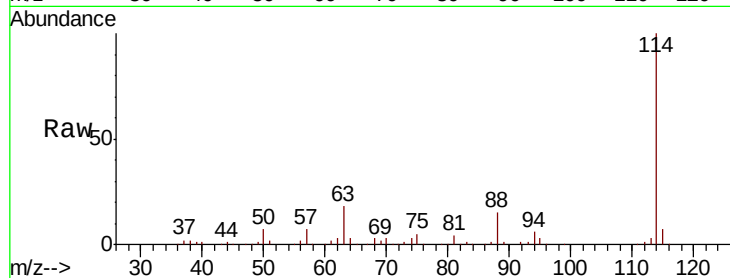




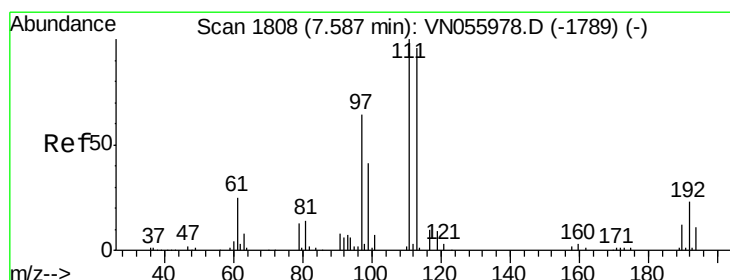
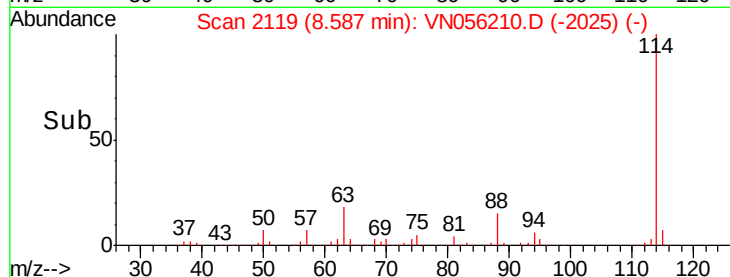
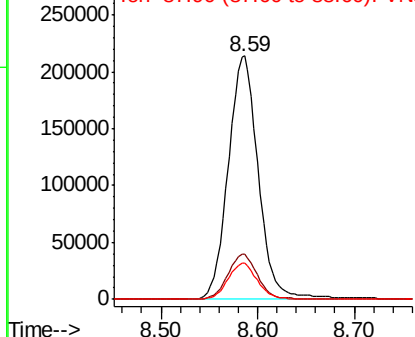
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN056210.D
Acq: 11 Jun 2019 9:46

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

Tot Ion:114 Resp: 461418
Ion Ratio Lower Upper
114 100
63 18.5 0.0 39.2
88 14.8 0.0 31.0

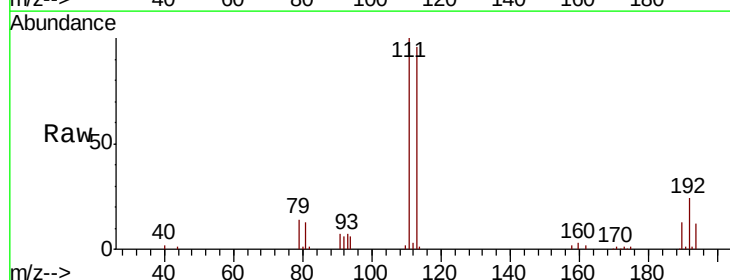


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

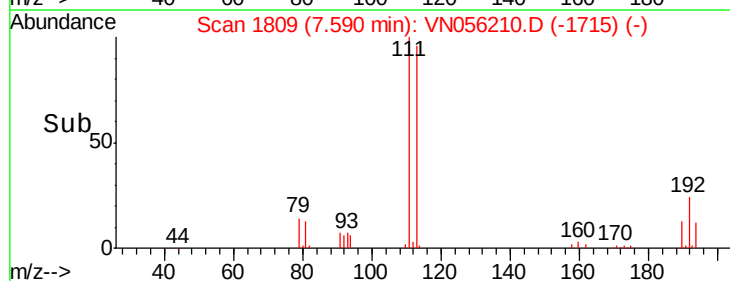
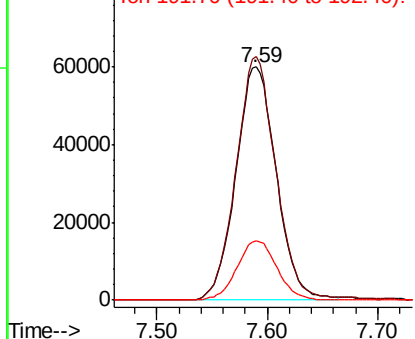


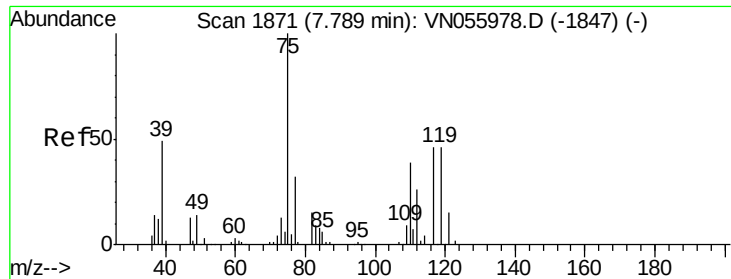
#35
Dibromofluoromethane
Concen: 53.961 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056210.D
Acq: 11 Jun 2019 9:46

Tgt Ion:113 Resp: 152760
Ion Ratio Lower Upper
113 100
111 102.1 81.9 122.9
192 25.1 19.5 29.3



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

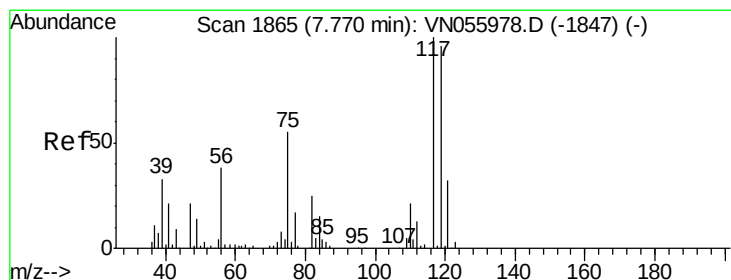
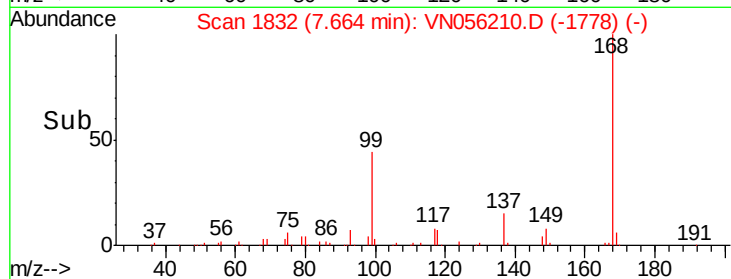
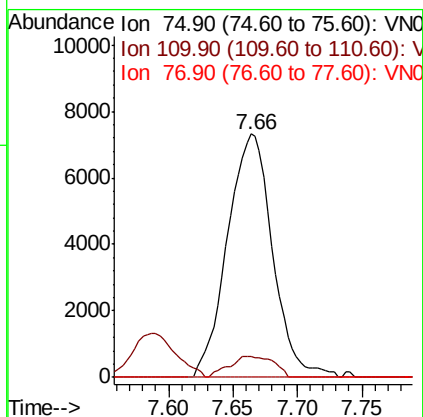
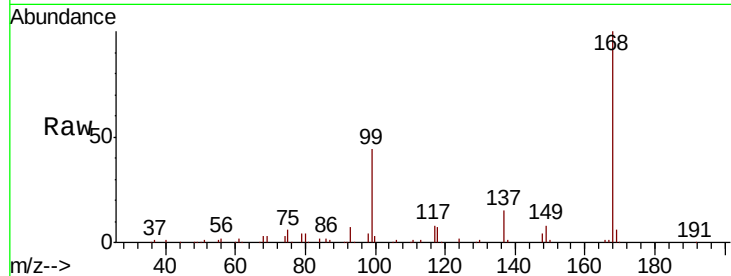




#36
 1,1-Dichloropropene
 Concen: 4.485 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056210.D
 Acq: 11 Jun 2019 9:46

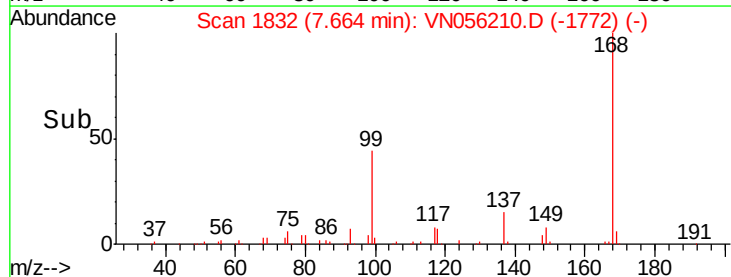
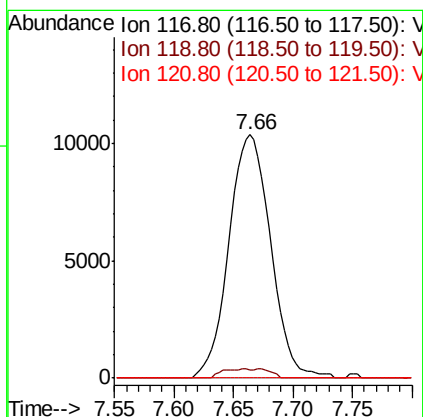
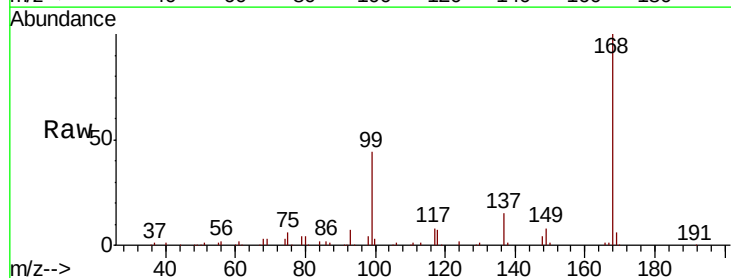
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611WBL01

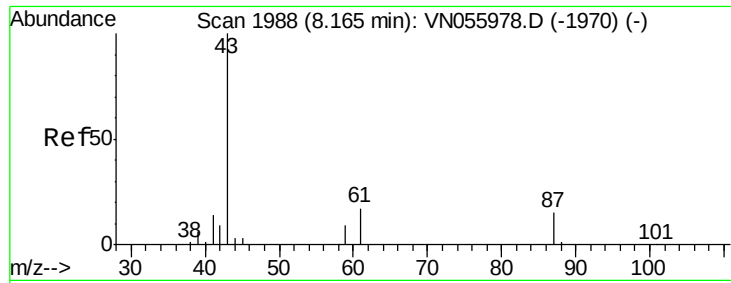
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.893 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056210.D
 Acq: 11 Jun 2019 9:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.6	79.0	118.6#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 0.274 ug/l

RT: 8.32 min Scan# 2035

Delta R.T. 0.15 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBL01

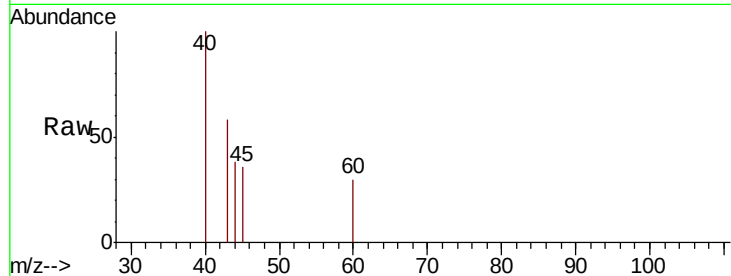
Tot Ion: 43 Resp: 1570

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

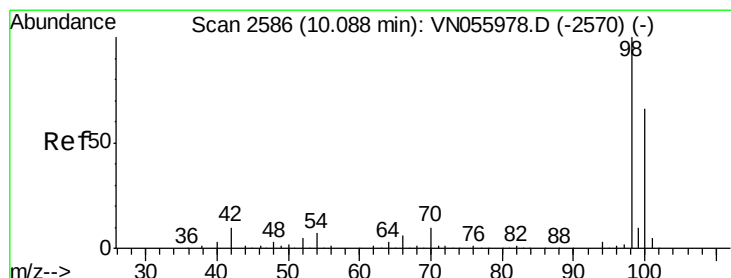
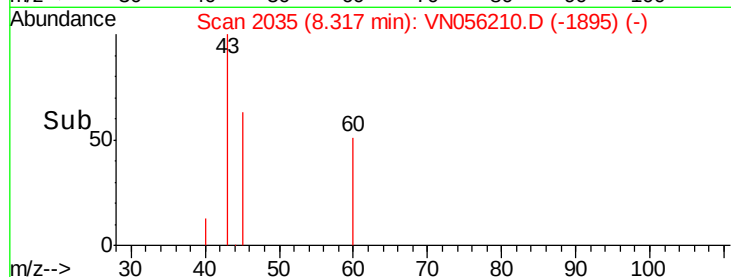
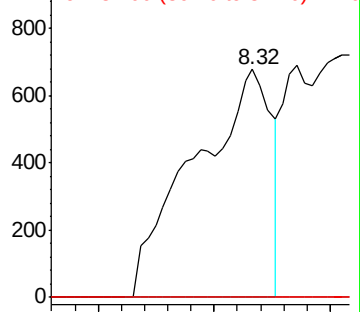
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 54.254 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056210.D

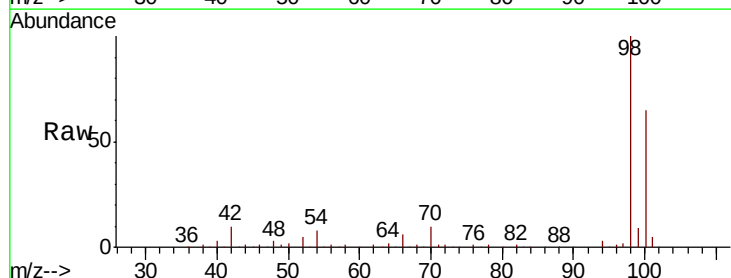
Acq: 11 Jun 2019 9:46

Tgt Ion: 98 Resp: 591013

Ion Ratio Lower Upper

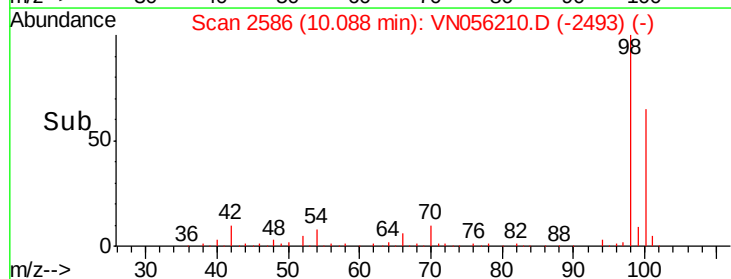
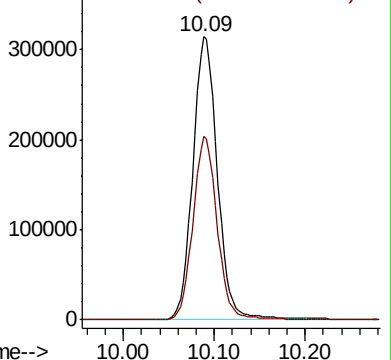
98 100

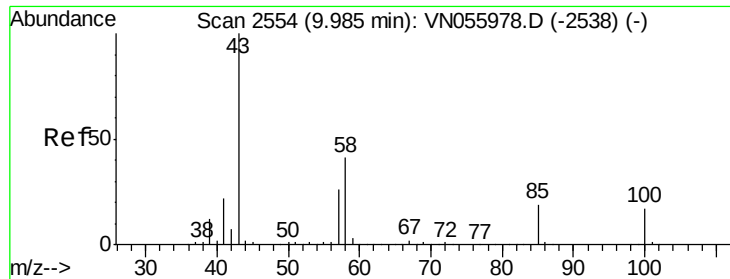
100 64.0 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.219 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

Instrument :

MSVOA_N

ClientSampled :

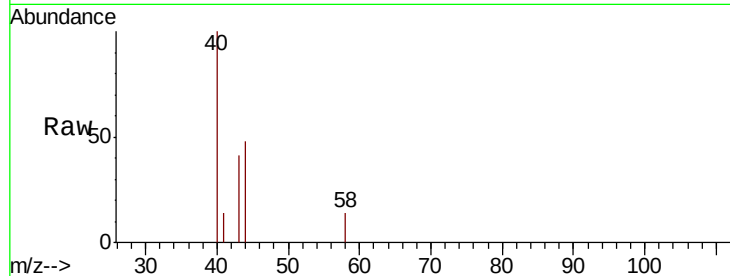
VN0611WBL01

Tot Ion: 43 Resp: 784

Ion Ratio Lower Upper

43 100

58 0.0 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

400

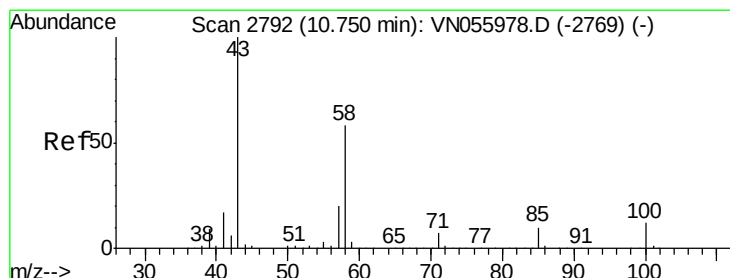
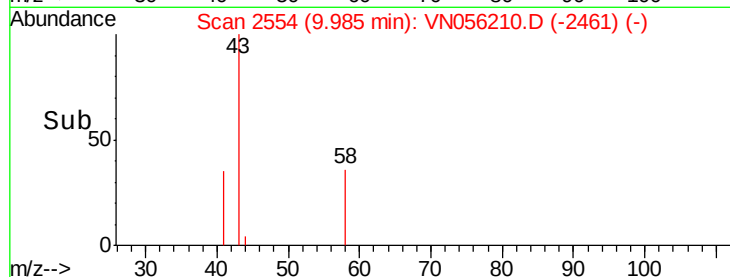
300

200

100

0

Time-->



#59

2-Hexanone

Concen: 0.453 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN056210.D

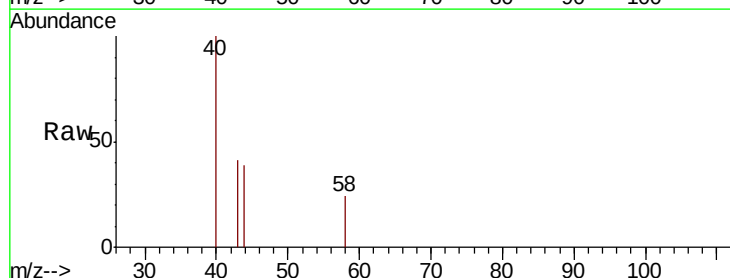
Acq: 11 Jun 2019 9:46

Tgt Ion: 43 Resp: 1174

Ion Ratio Lower Upper

43 100

58 31.3 28.2 84.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

600

500

400

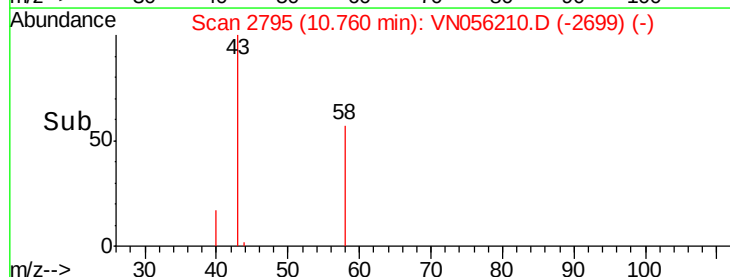
300

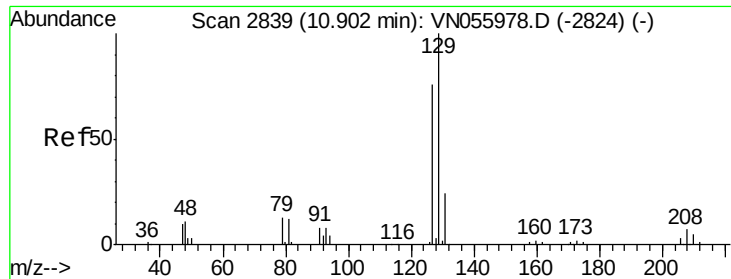
200

100

0

Time-->





#60

Dibromochloromethane

Concen: 2.472 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

Instrument :

MSVOA_N

ClientSampleId :

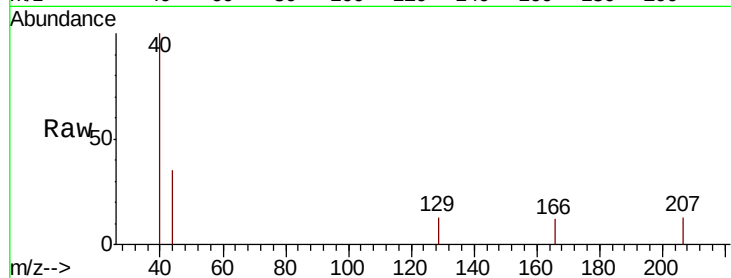
VN0611WBL01

Tot Ion:129 Resp: 69

Ion Ratio Lower Upper

129 100

127 0.0 38.1 114.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

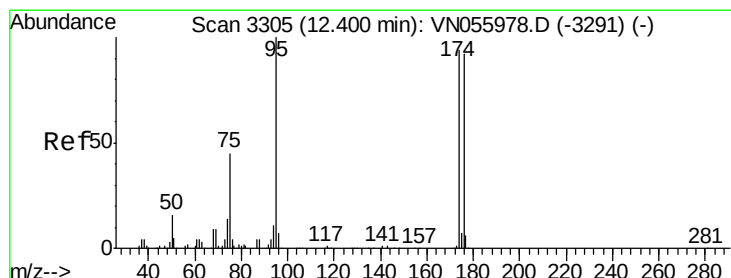
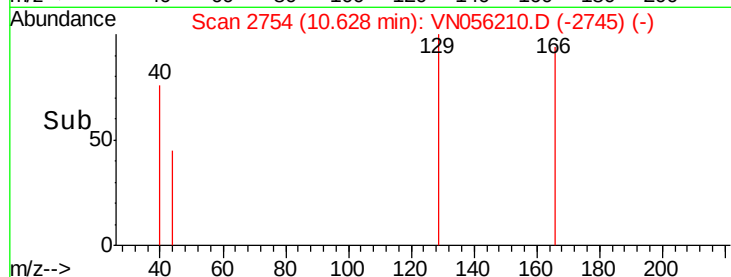
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 47.978 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

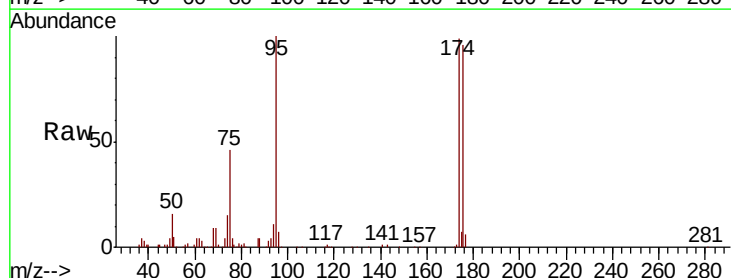
Tgt Ion: 95 Resp: 177742

Ion Ratio Lower Upper

95 100

174 98.7 0.0 191.0

176 95.6 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

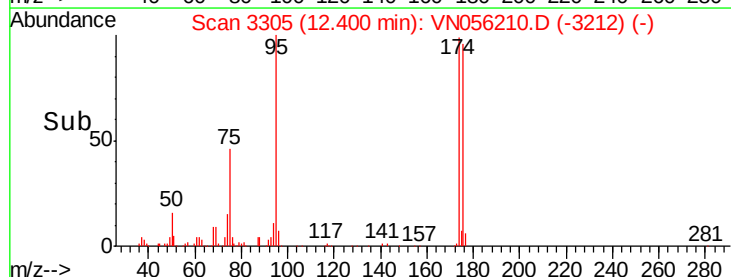
Ion 175.80 (175.50 to 176.50): V

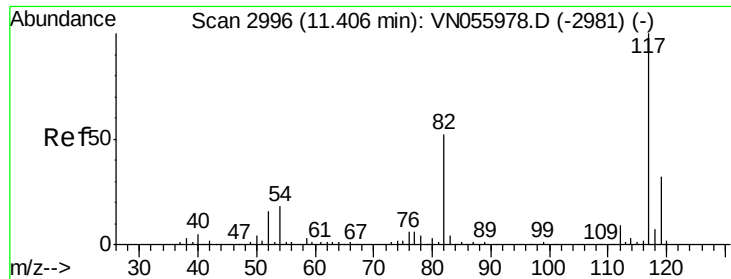
100000

50000

0

Time-->

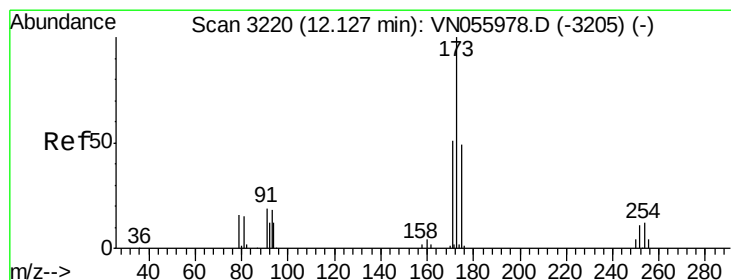
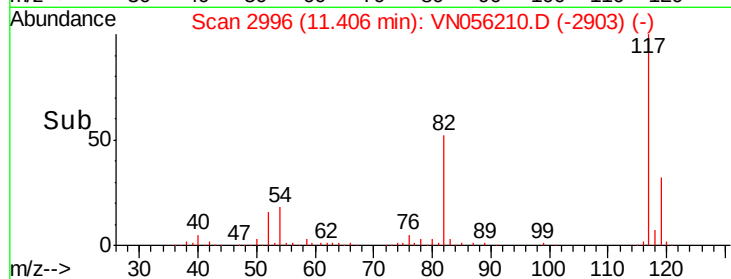
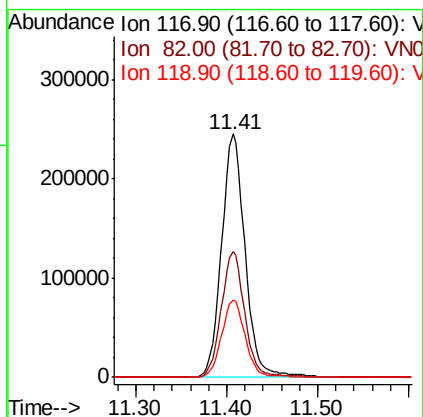
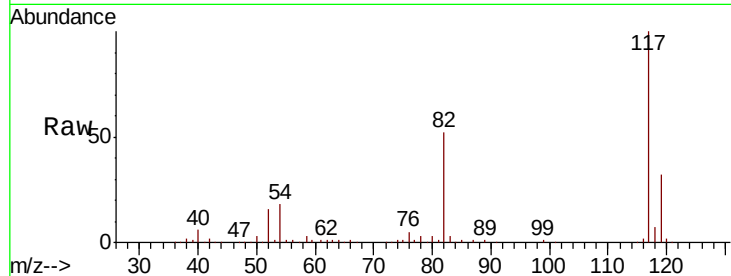




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056210.D
Acq: 11 Jun 2019 9:46

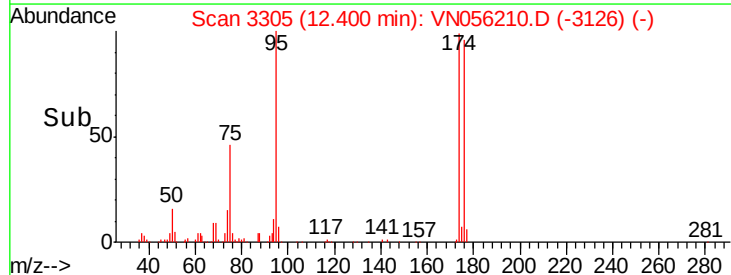
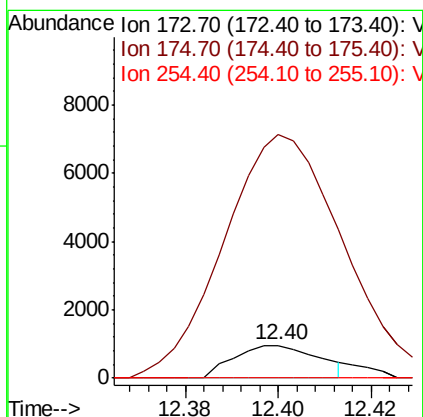
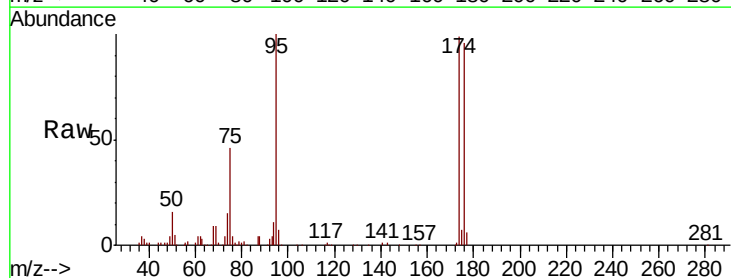
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

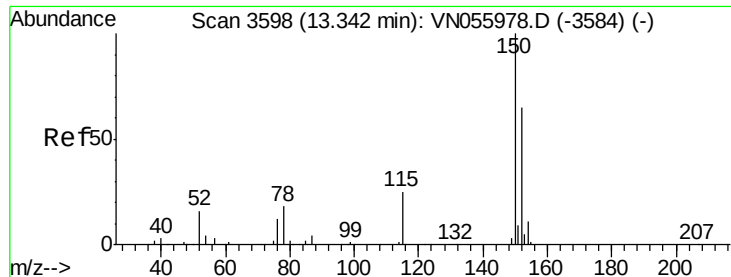
Tot Ion:117 Resp: 440136
Ion Ratio Lower Upper
117 100
82 51.6 41.8 62.8
119 31.8 25.4 38.0



#71
Bromoform
Concen: 3.190 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056210.D
Acq: 11 Jun 2019 9:46

Tgt Ion:173 Resp: 1202
Ion Ratio Lower Upper
173 100
175 910.4 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBL01

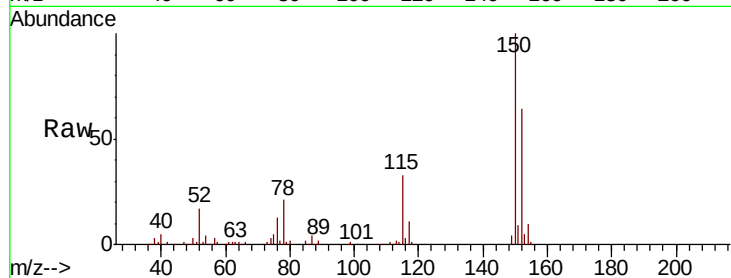
Tot Ion:152 Resp: 132085

Ion Ratio Lower Upper

152 100

115 52.2 27.0 81.0

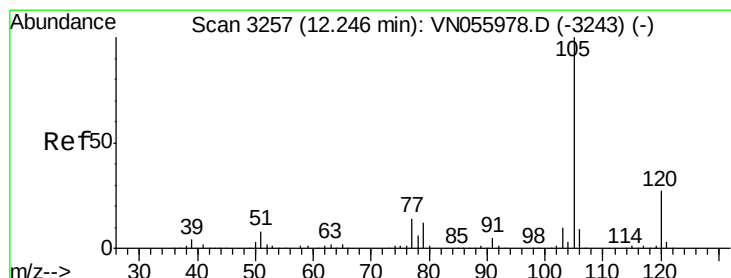
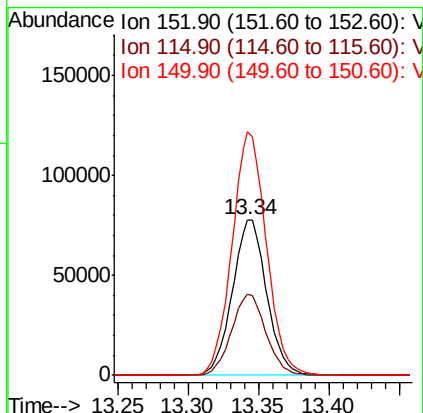
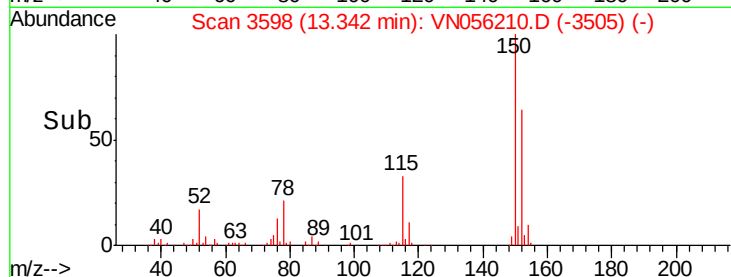
150 157.1 0.0 343.2



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN056210.D

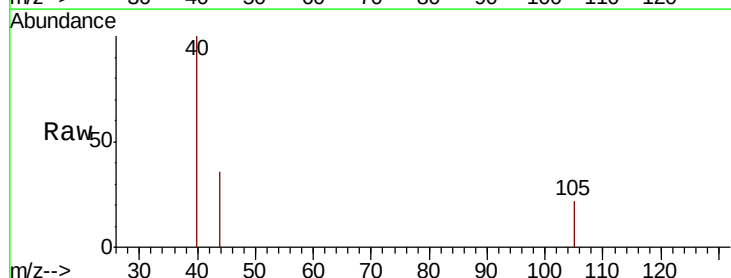
Acq: 11 Jun 2019 9:46

Tgt Ion:105 Resp: 444

Ion Ratio Lower Upper

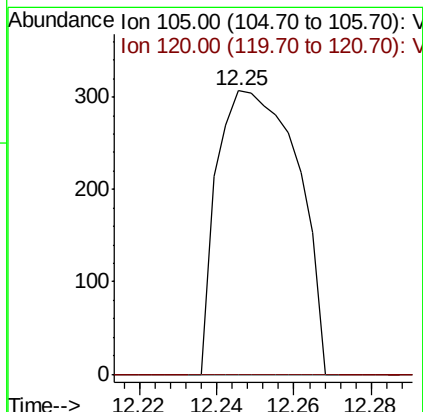
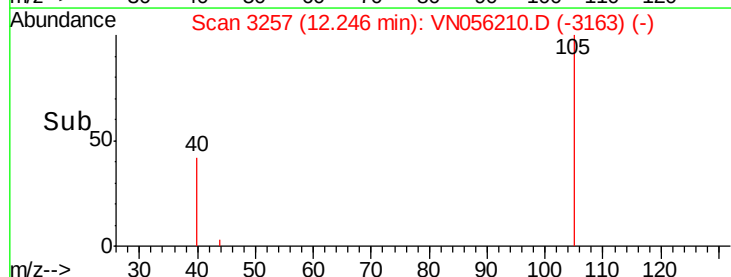
105 100

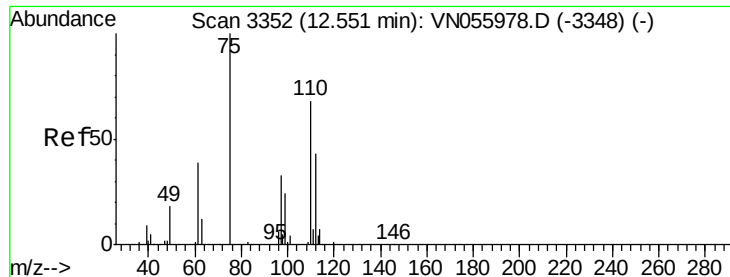
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 33.438 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

Instrument :

MSVOA_N

ClientSampled :

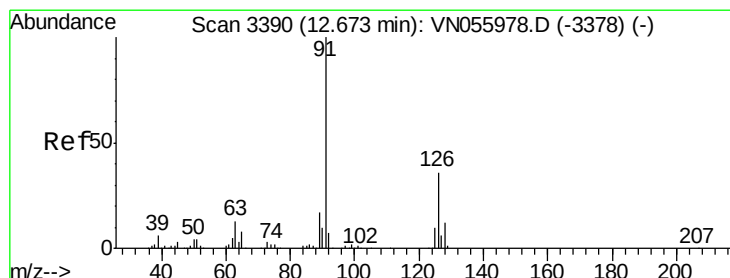
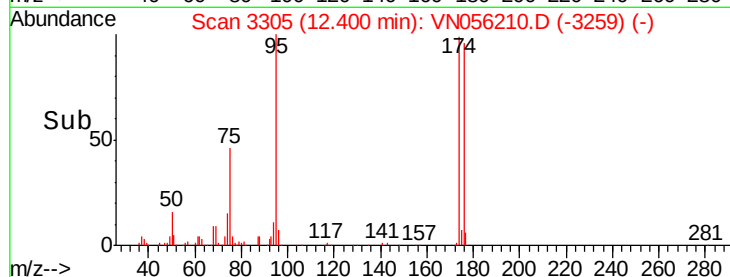
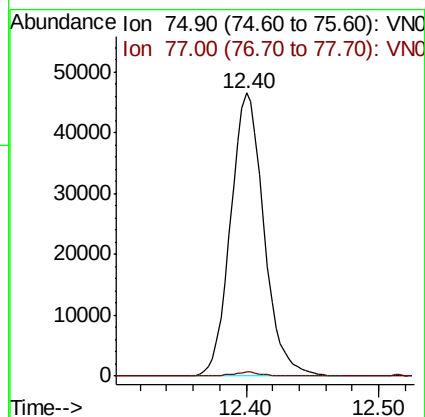
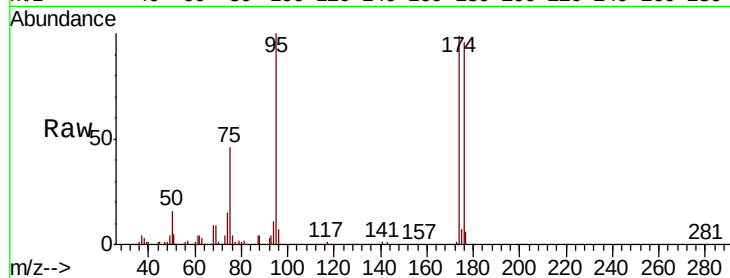
VN0611WBL01

Tot Ion: 75 Resp: 81269

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN056210.D

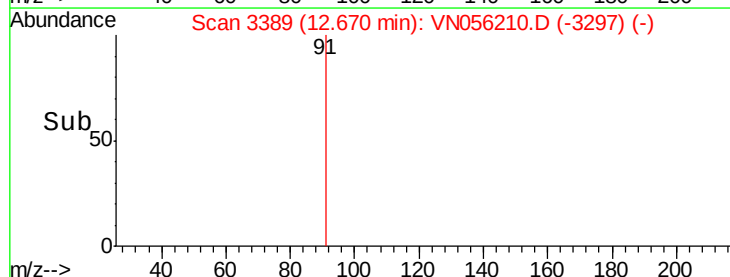
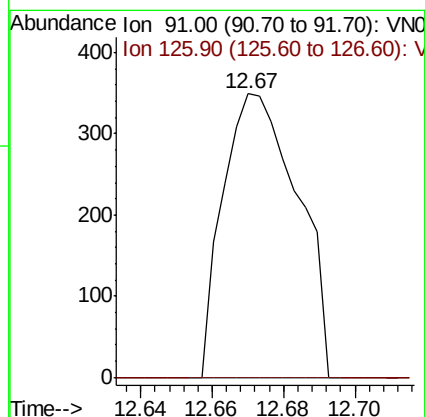
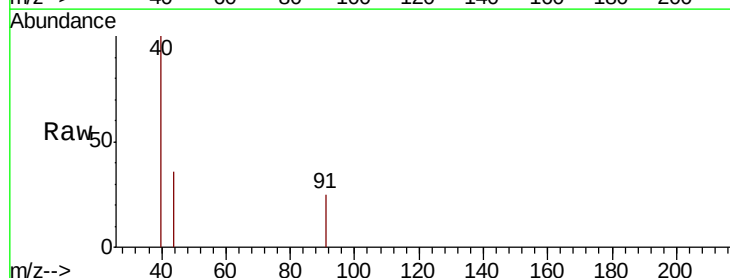
Acq: 11 Jun 2019 9:46

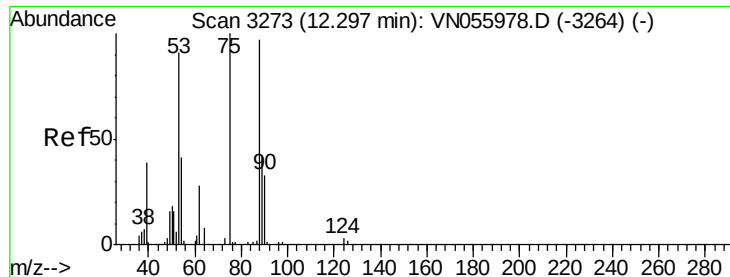
Tgt Ion: 91 Resp: 504

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 111.356 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBL01

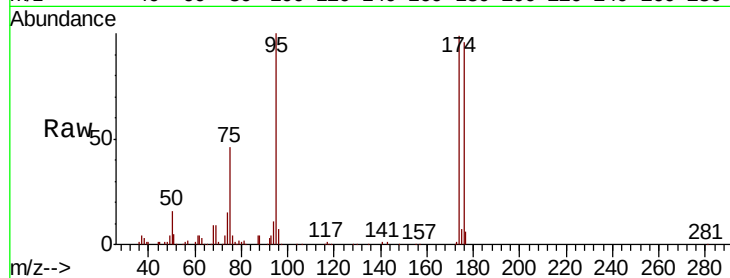
Tot Ion: 75 Resp: 81269

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

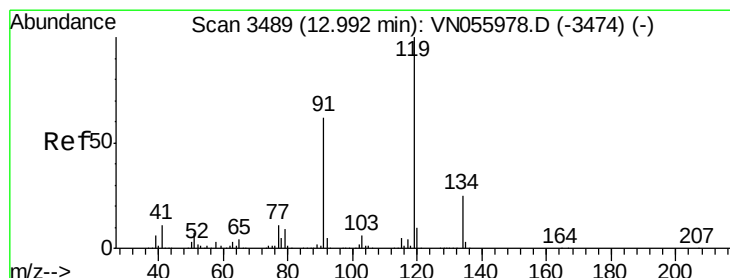
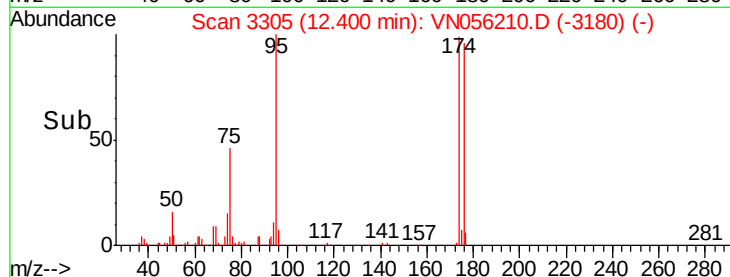
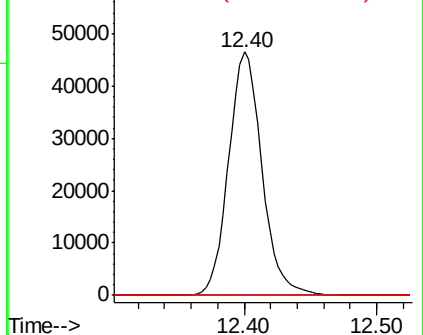
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

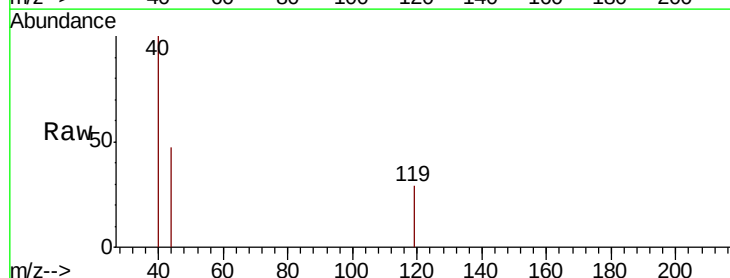
Tgt Ion: 119 Resp: 405

Ion Ratio Lower Upper

119 100

91 0.0 30.9 92.8#

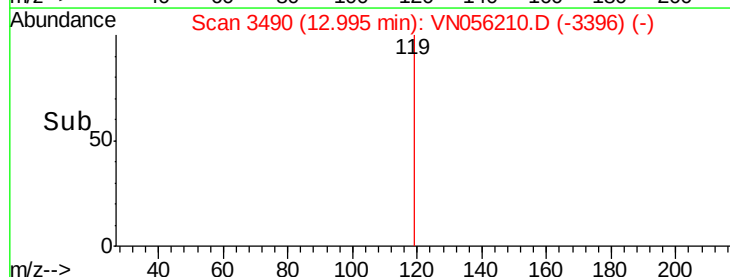
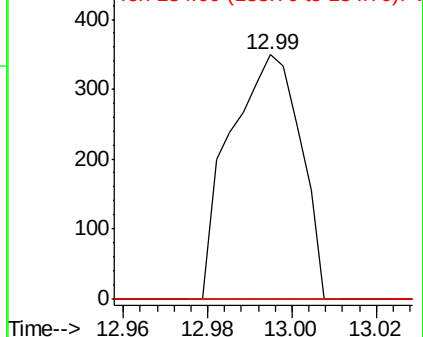
134 0.0 13.3 39.8#

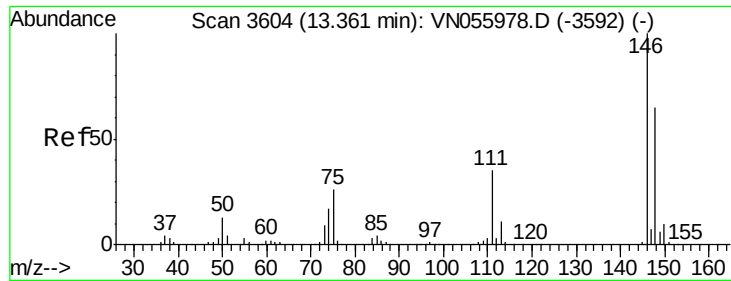


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V





#88

1,4-Dichlorobenzene

Concen: 0.200 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. 0.01 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

Instrument :

MSVOA_N

ClientSampled :

VN0611WBL01

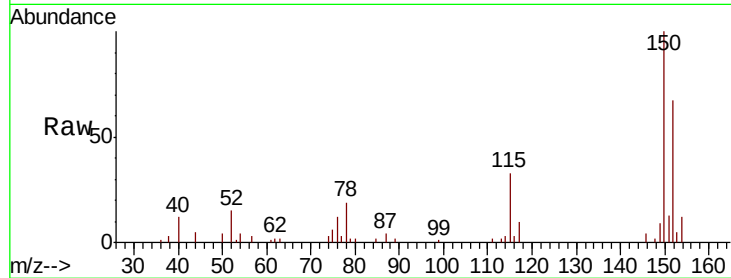
Tot Ion:146 Resp: 844

Ion Ratio Lower Upper

146 100

111 0.0 18.1 54.4#

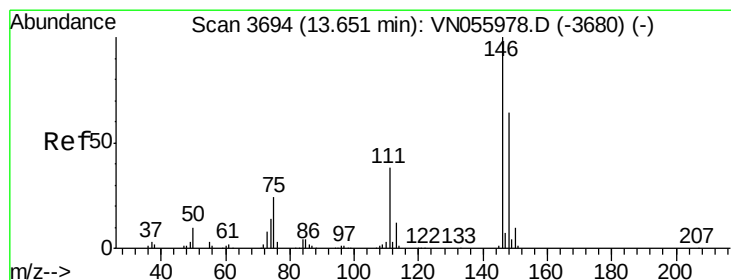
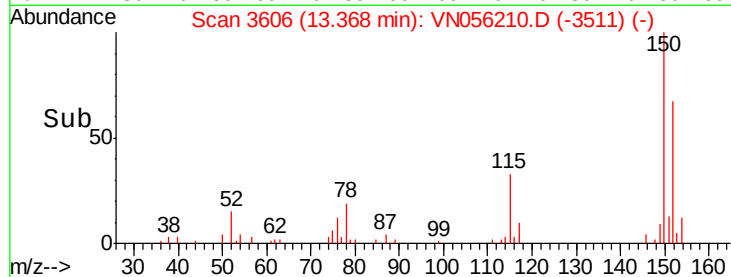
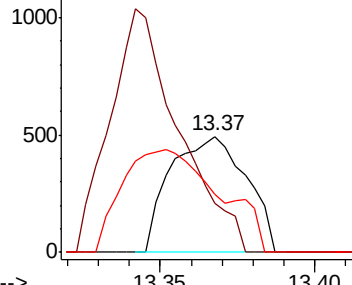
148 0.0 32.1 96.5#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 0.221 ug/l

RT: 13.65 min Scan# 3693

Delta R.T. -0.00 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

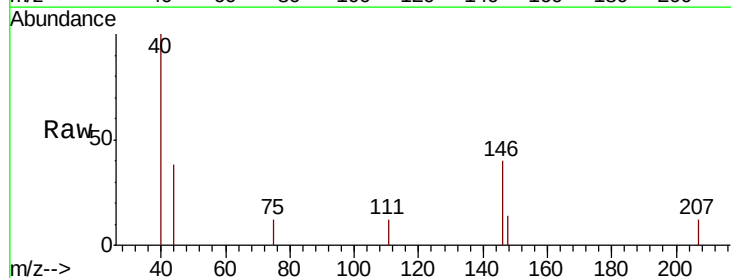
Tgt Ion:146 Resp: 978

Ion Ratio Lower Upper

146 100

111 16.7 19.1 57.5#

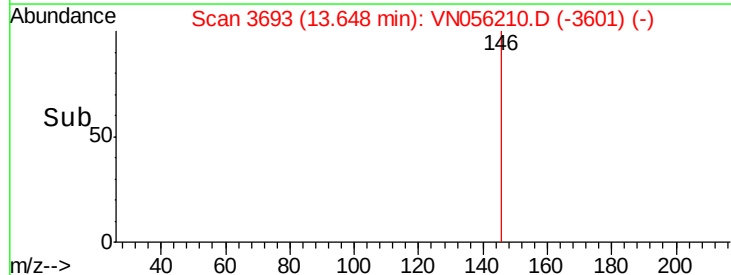
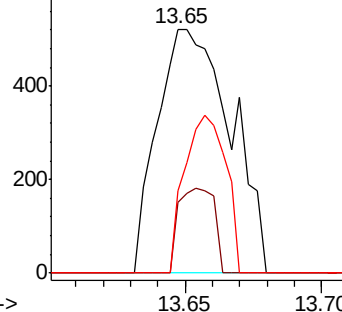
148 36.1 31.9 95.9

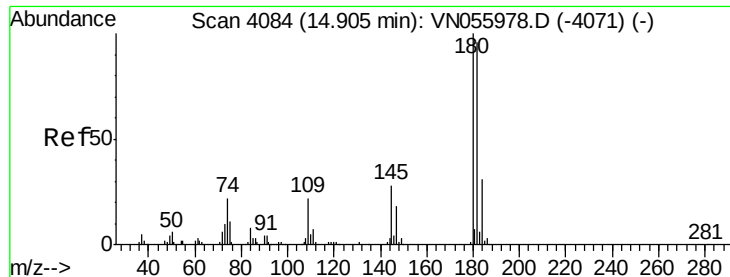


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

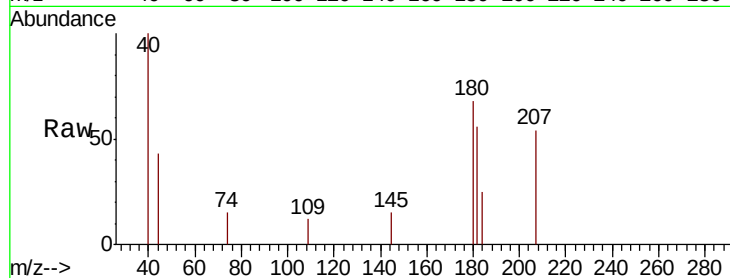




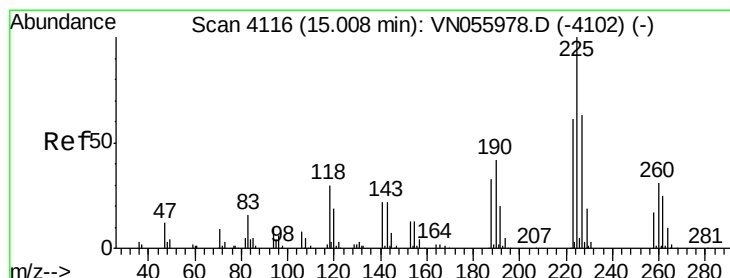
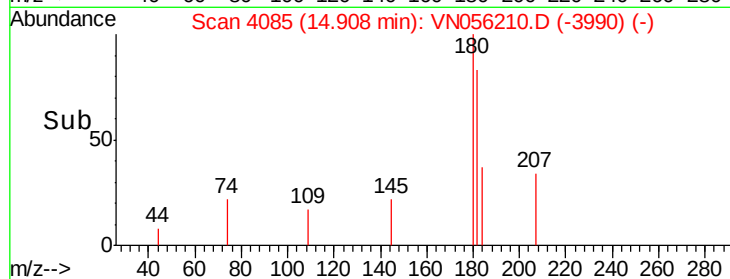
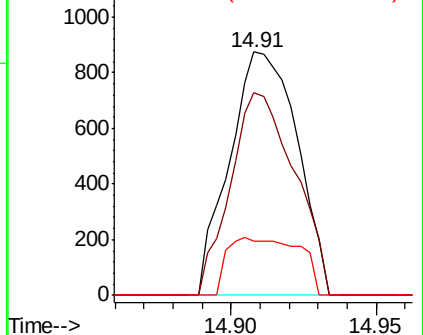
#93
 1,2,4-Trichlorobenzene
 Concen: 4.802 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056210.D
 Acq: 11 Jun 2019 9:46

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611WBL01

Tot Ion:180 Resp: 1418
 Ion Ratio Lower Upper
 180 100
 182 79.3 48.3 144.9
 145 25.2 14.0 41.9

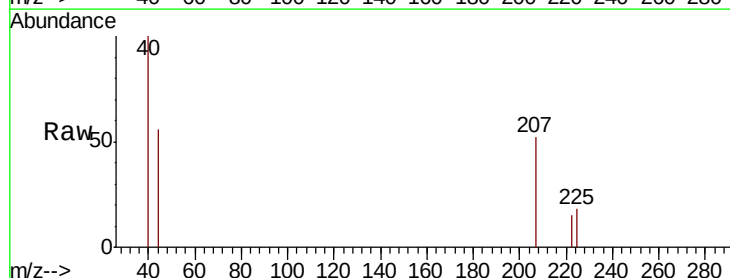


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

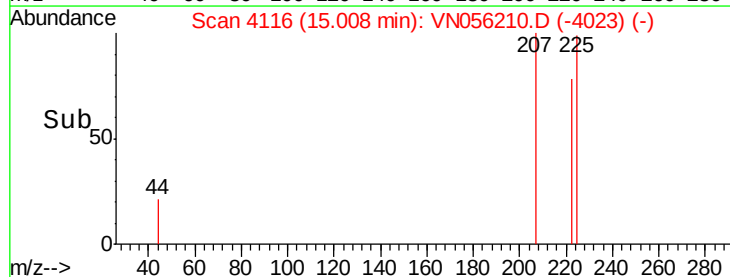
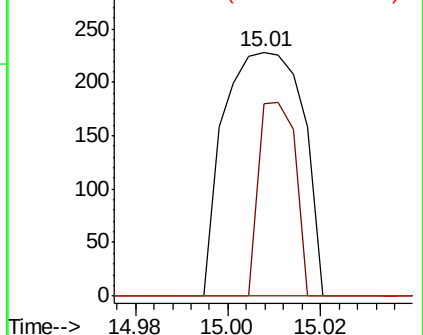


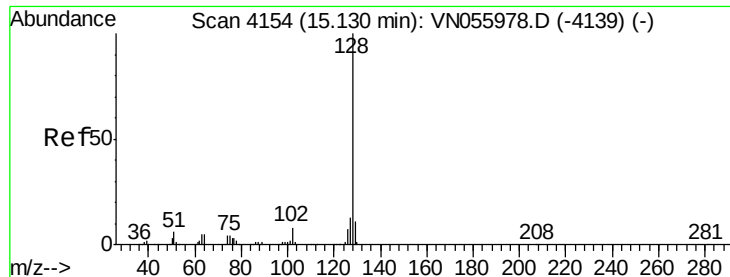
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN056210.D
 Acq: 11 Jun 2019 9:46

Tgt Ion:225 Resp: 270
 Ion Ratio Lower Upper
 225 100
 223 37.0 30.9 92.7
 227 0.0 31.6 94.7#



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: 4.356 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

Instrument :

MSVOA_N

ClientSampled :

VN0611WBL01

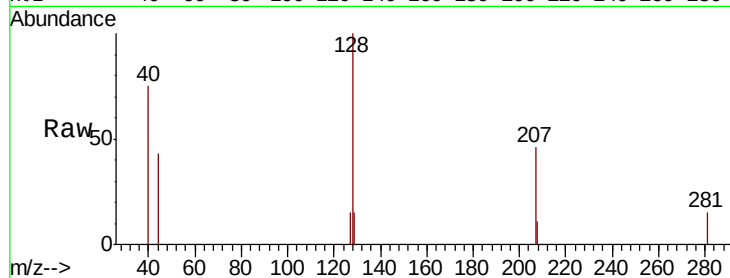
Tot Ion:128 Resp: 3454

Ion Ratio Lower Upper

128 100

127 7.3 10.3 15.5#

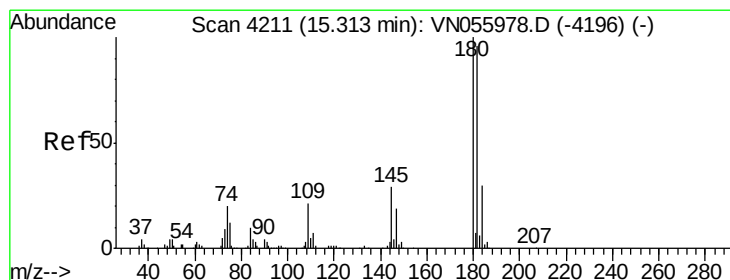
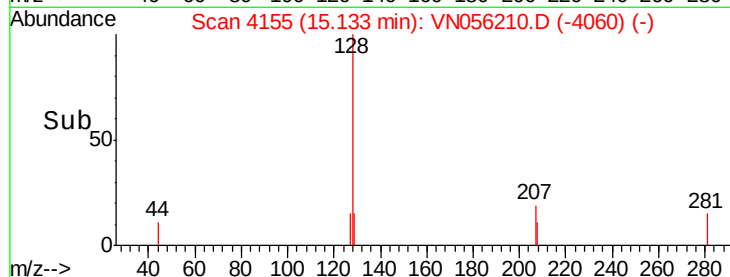
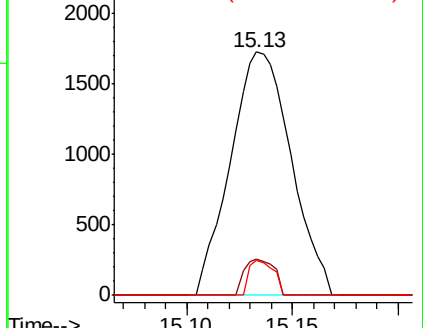
129 5.9 8.7 13.1#



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: 3.745 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN056210.D

Acq: 11 Jun 2019 9:46

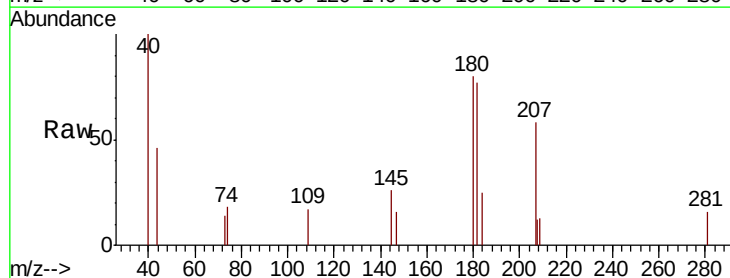
Tgt Ion:180 Resp: 1886

Ion Ratio Lower Upper

180 100

182 96.1 47.9 143.7

145 23.2 14.9 44.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

