

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012020\
 Data File : VN059784.D
 Acq On : 20 Jan 2020 14:10
 Operator : JC/MD
 Sample : PB126173TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 21 01:17:57 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	197114	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	294297	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	260347	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	109483	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	102258	46.71	ug/l	0.00
Spiked Amount			Recovery	=	93.42%	
35) Dibromofluoromethane	7.57	113	88080	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
50) Toluene-d8	10.08	98	342271	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
62) 4-Bromofluorobenzene	12.40	95	115778	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	

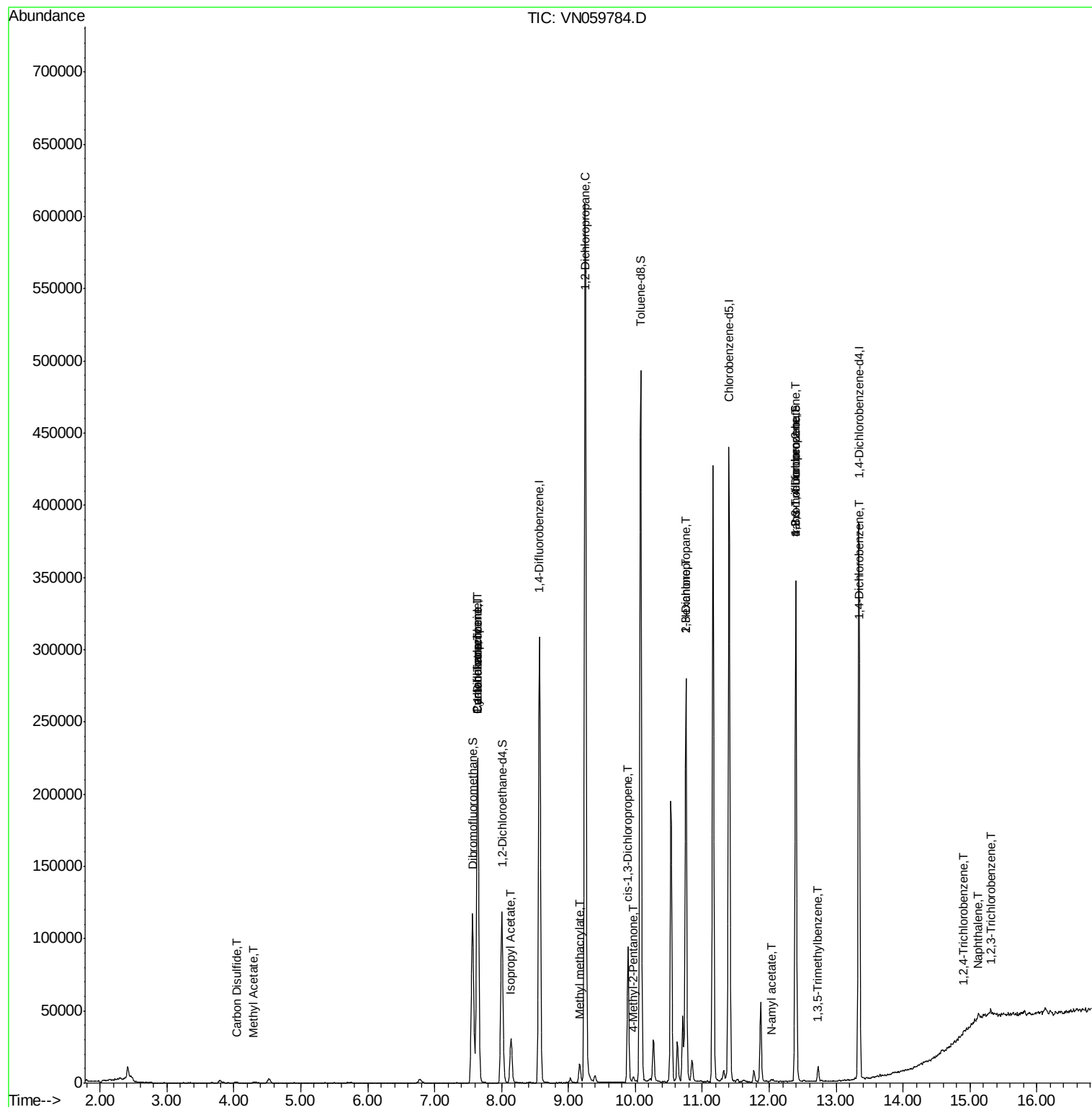
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	3469	Below Cal		91
17) Carbon Disulfide	4.03	76	1268	0.247	ug/l #	75
18) Methyl Acetate	4.30	43	686	0.268	ug/l #	54
20) Methylene Chloride	4.52	84	2375	Below Cal	#	83
31) Cyclohexane	7.64	56	3730	1.152	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13080	5.104	ug/l #	50
38) Carbon Tetrachloride	7.64	117	17885	6.415	ug/l #	16
43) Isopropyl Acetate	8.14	43	37336	9.030	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	702	0.371	ug/l #	44
48) Methyl methacrylate	9.16	41	2051	1.109	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2758	1.154	ug/l #	86
54) cis-1,3-Dichloropropene	9.89	75	17739	5.616	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	3054	1.006	ug/l #	42
59) 2-Hexanone	10.75	43	38838	22.058	ug/l #	56
74) N-amyl acetate	12.03	43	1471	0.472	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	57421	31.165	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5920	0.877	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	57421	66.927	ug/l #	11
88) 1,4-Dichlorobenzene	13.36	146	712	0.202	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	14.26	75	194	Below Cal	#	6
93) 1,2,4-Trichlorobenzene	14.91	180	908	0.433	ug/l	92
95) Naphthalene	15.13	128	4070	0.682	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.32	180	1404	0.687	ug/l	75

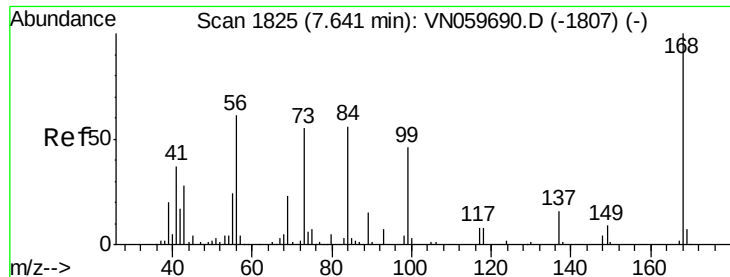
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059784.D

Acq: 20 Jan 2020 14:10

Instrument :

MSVOA_N

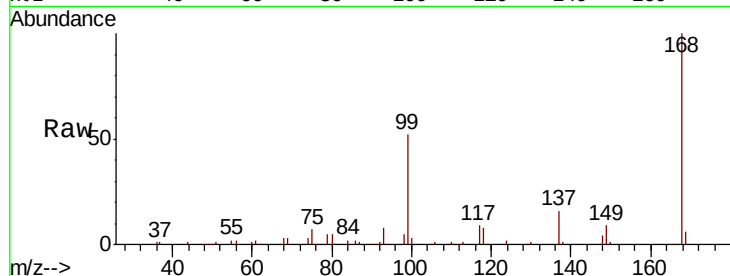
ClientSampled :

Tot Ion:168 Resp: 197114

Ion Ratio Lower Upper

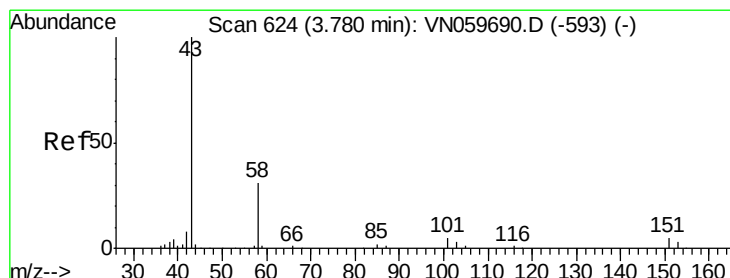
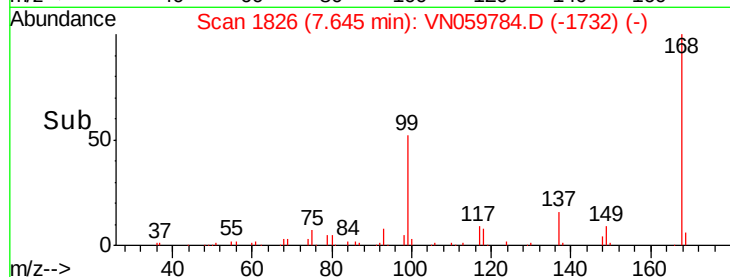
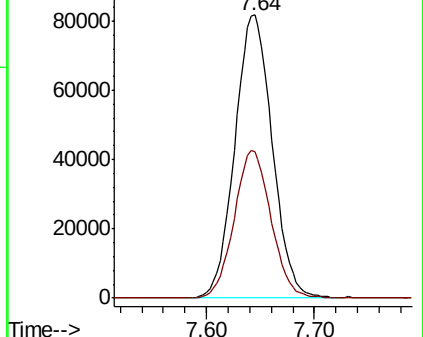
168 100

99 51.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059690.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN059690.D (-1807) (-)



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059784.D

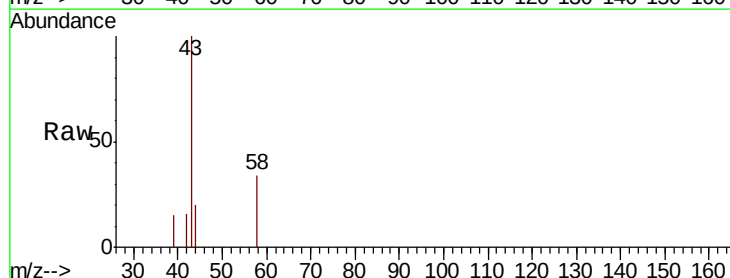
Acq: 20 Jan 2020 14:10

Tgt Ion: 43 Resp: 3469

Ion Ratio Lower Upper

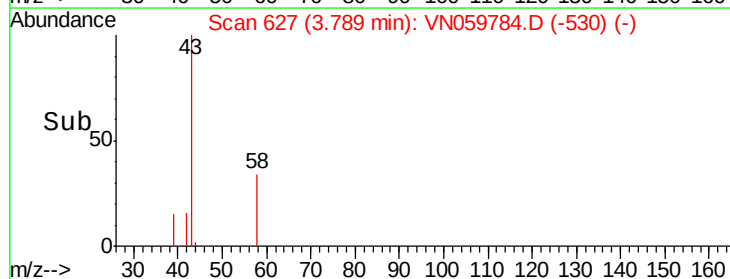
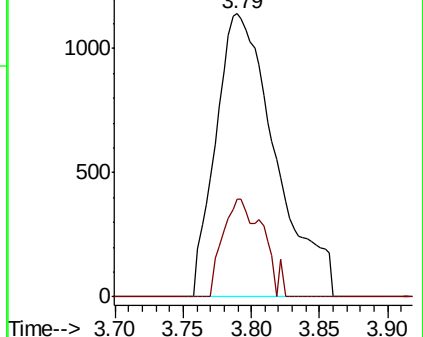
43 100

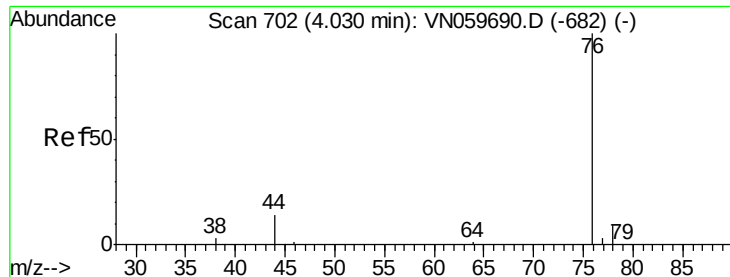
58 34.4 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-593) (-)

Ion 58.00 (57.70 to 58.70): VN059690.D (-593) (-)





#17

Carbon Disulfide

Concen: 0.247 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN059784.D

Acq: 20 Jan 2020 14:10

Instrument :

MSVOA_N

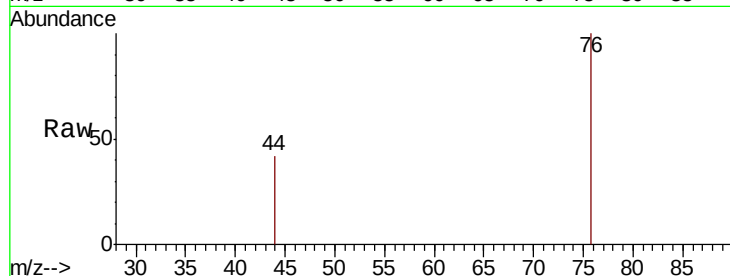
ClientSampleId :

Tot Ion: 76 Resp: 1268

Ion Ratio Lower Upper

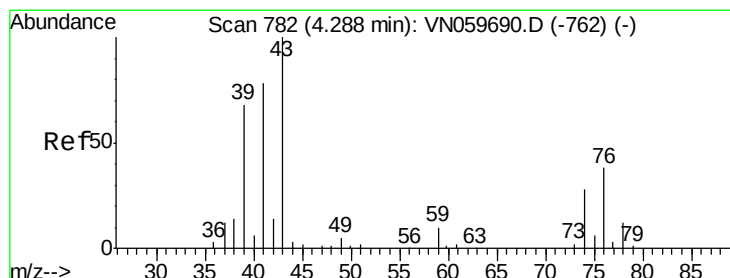
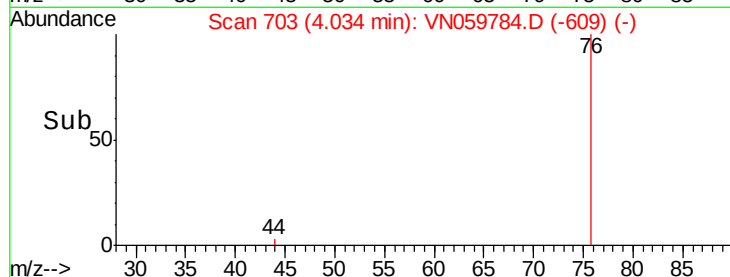
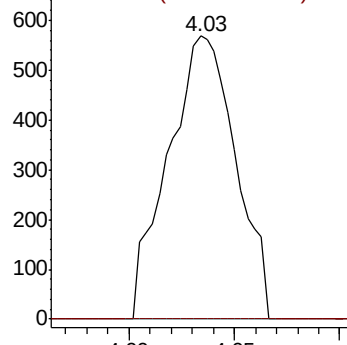
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 0.268 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.01 min

Lab File: VN059784.D

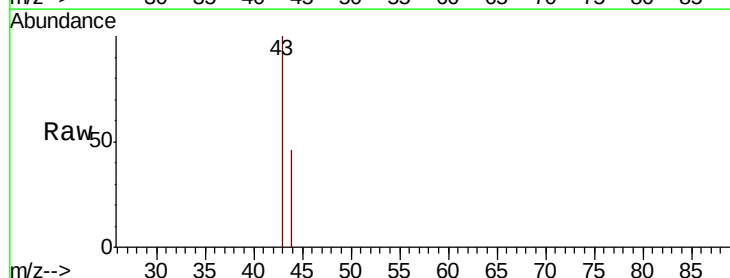
Acq: 20 Jan 2020 14:10

Tgt Ion: 43 Resp: 686

Ion Ratio Lower Upper

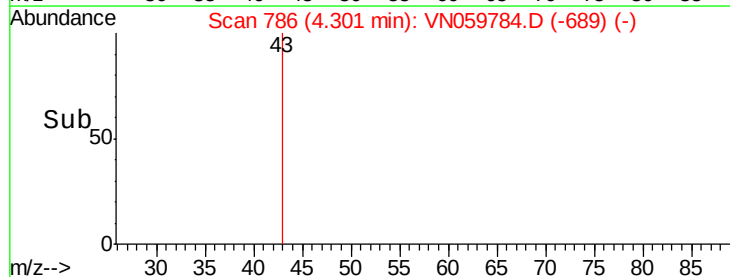
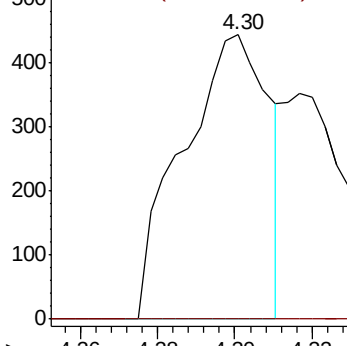
43 100

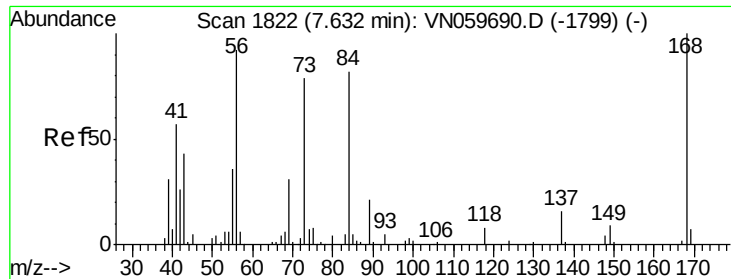
74 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

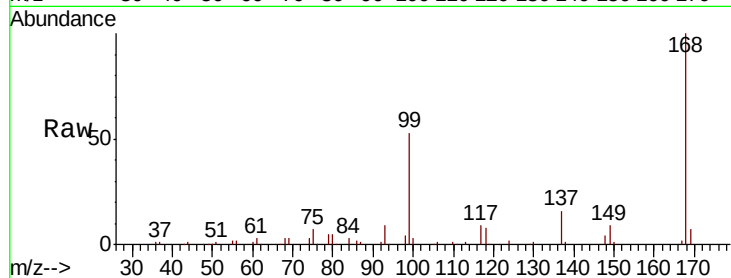




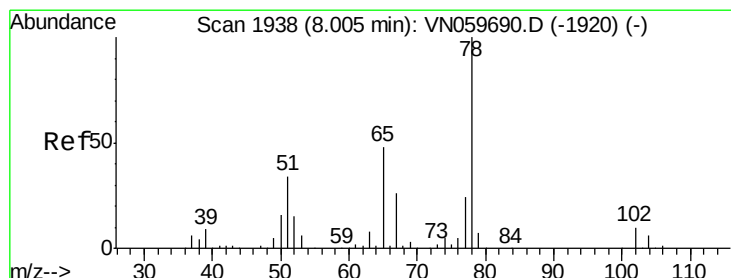
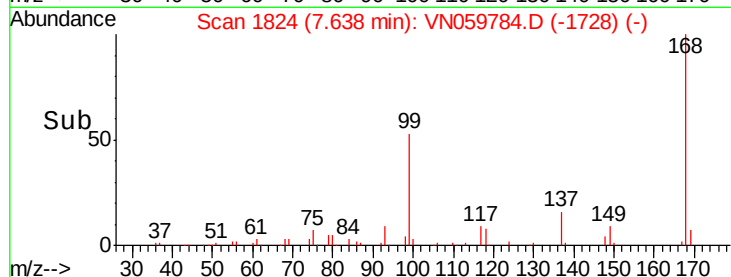
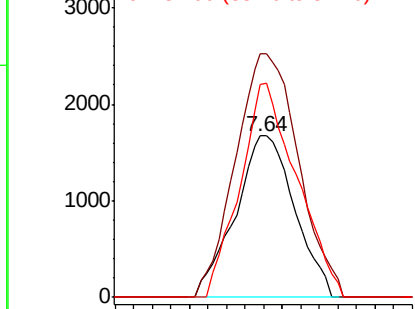
#31
Cyclohexane
Concen: 1.152 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059784.D
Acq: 20 Jan 2020 14:10

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3730
Ion Ratio Lower Upper
56 100
69 150.9 26.5 39.7#
84 131.7 65.3 97.9#

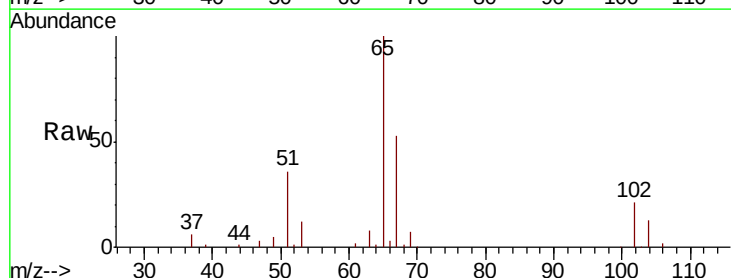


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

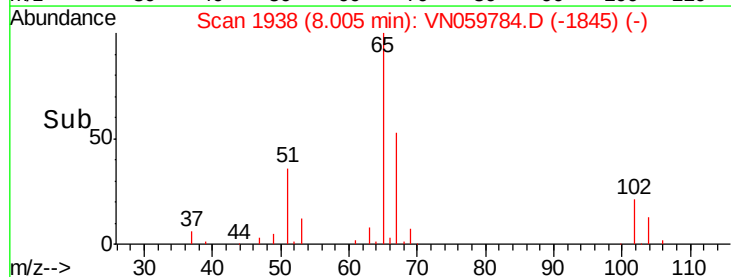
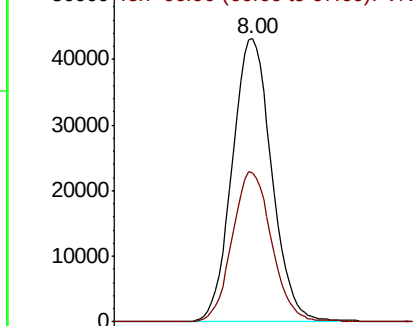


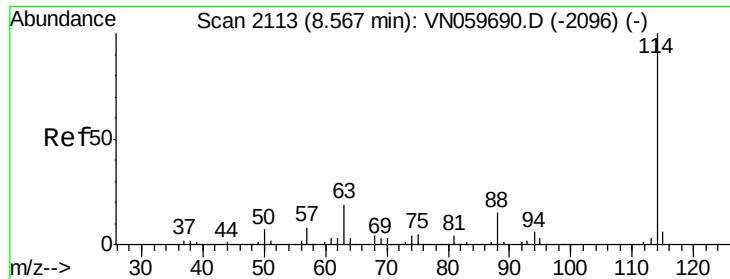
#33
1,2-Dichloroethane-d4
Concen: 46.714 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059784.D
Acq: 20 Jan 2020 14:10

Tgt Ion: 65 Resp: 102258
Ion Ratio Lower Upper
65 100
67 52.9 0.0 103.0



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

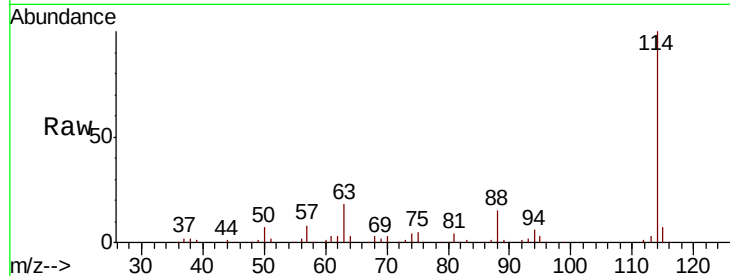




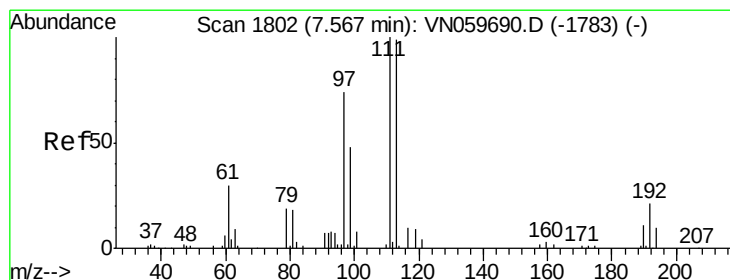
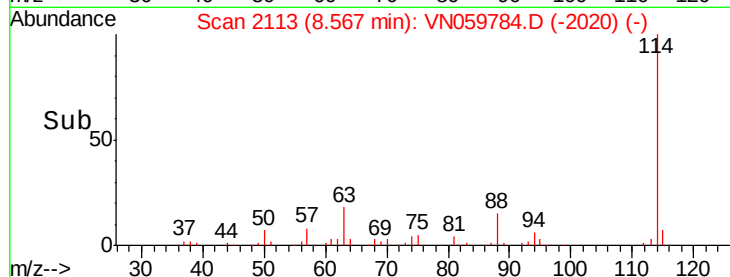
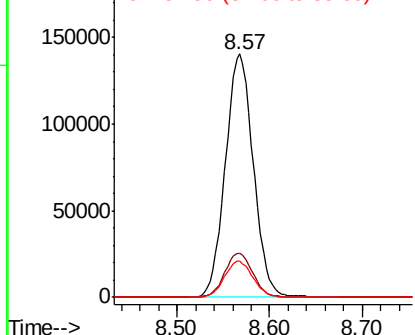
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059784.D
 Acq: 20 Jan 2020 14:10

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.2	0.0	43.6
88	14.7	0.0	31.4

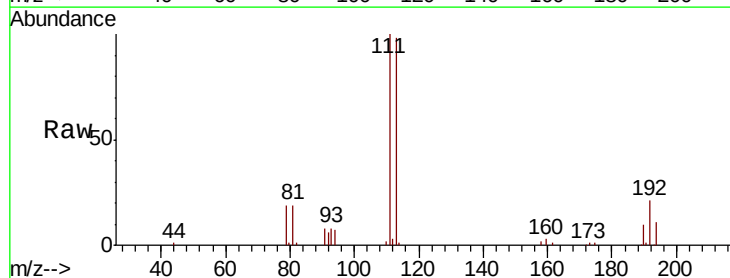


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

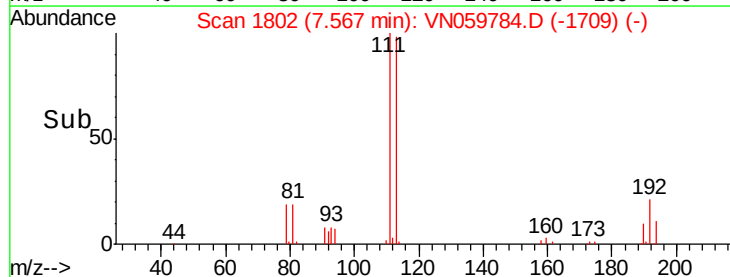
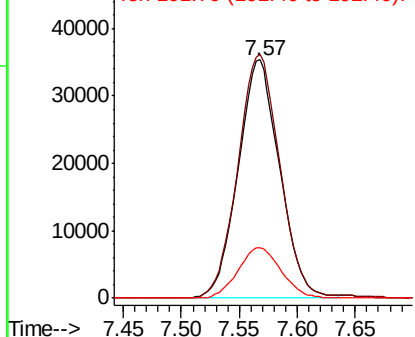


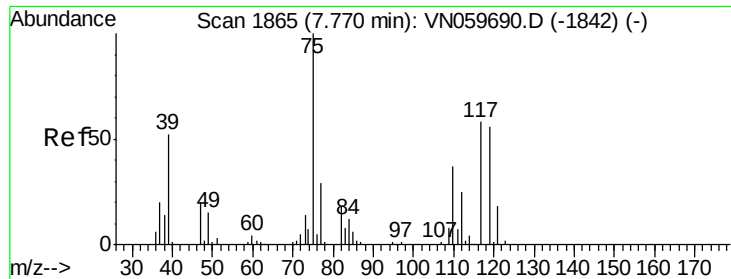
#35
 Dibromofluoromethane
 Concen: 50.187 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059784.D
 Acq: 20 Jan 2020 14:10

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.1	83.5	125.3
192	21.9	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

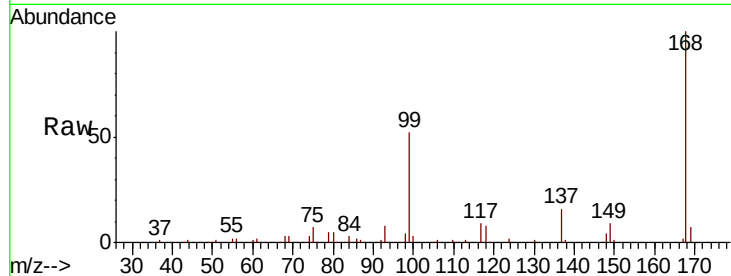




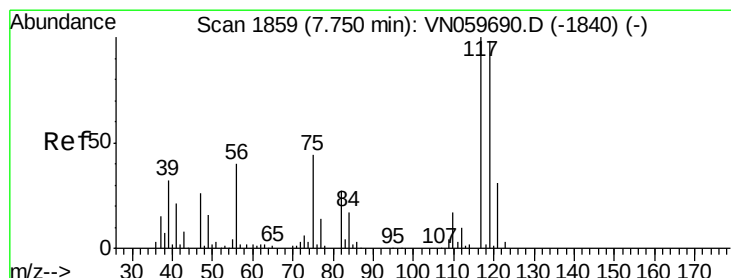
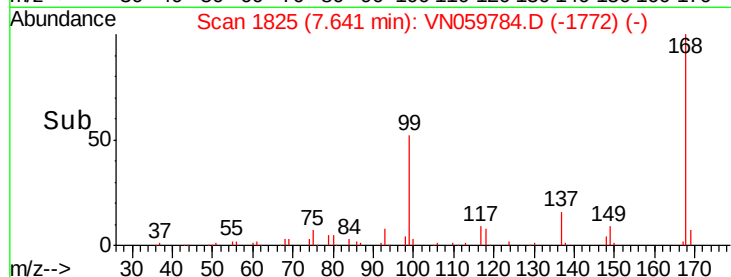
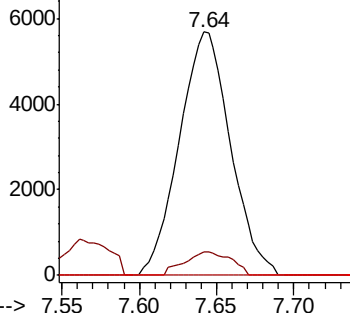
#36
 1,1-Dichloropropene
 Concen: 5.104 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059784.D
 Acq: 20 Jan 2020 14:10

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	75	Resp	13080
Ion Ratio	100	Lower	Upper
75	100		
110	8.8	16.6	49.7#
77	0.0	25.1	37.7#

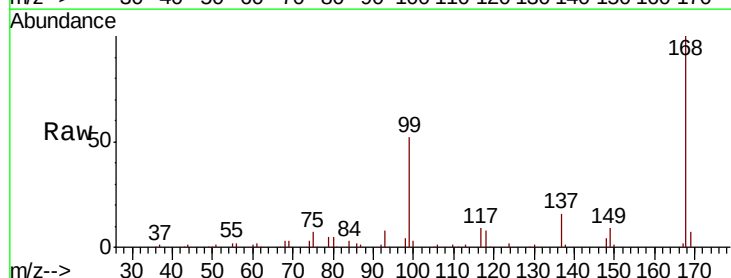


Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-1842) (-)
 Ion 109.90 (109.60 to 110.60): VN059690.D (-1842) (-)
 Ion 76.90 (76.60 to 77.60): VN059690.D (-1842) (-)

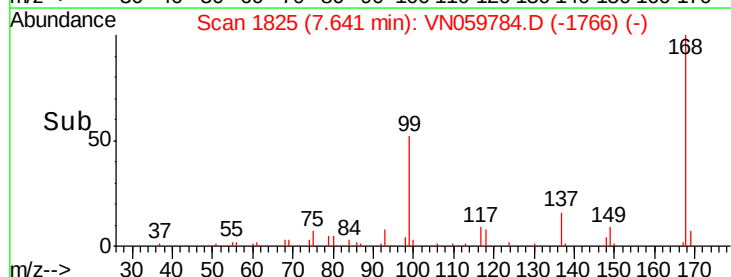
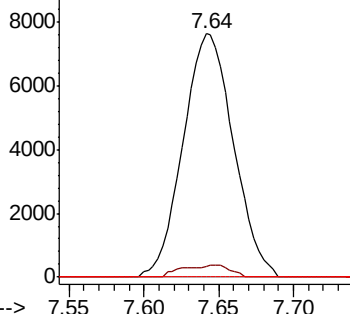


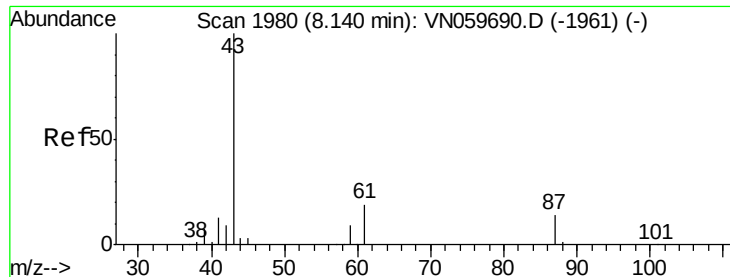
#38
 Carbon Tetrachloride
 Concen: 6.415 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059784.D
 Acq: 20 Jan 2020 14:10

Tgt Ion	117	Resp	17885
Ion Ratio	100	Lower	Upper
117	100		
119	4.4	76.5	114.7#
121	0.0	25.1	37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN059690.D (-1840) (-)
 Ion 118.80 (118.50 to 119.50): VN059690.D (-1840) (-)
 Ion 120.80 (120.50 to 121.50): VN059690.D (-1840) (-)





#43

Isopropyl Acetate

Concen: 9.030 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059784.D

Acq: 20 Jan 2020 14:10

Instrument :

MSVOA_N

ClientSampleId :

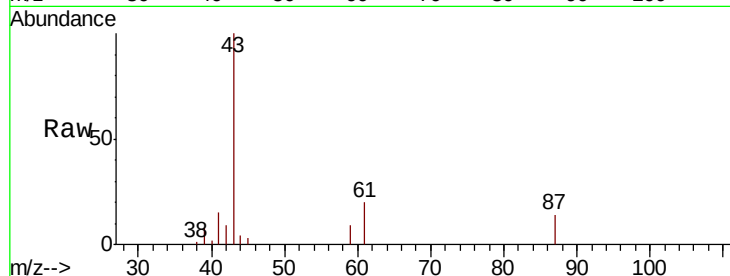
Tot Ion: 43 Resp: 37336

Ion Ratio Lower Upper

43 100

61 19.4 20.2 30.2#

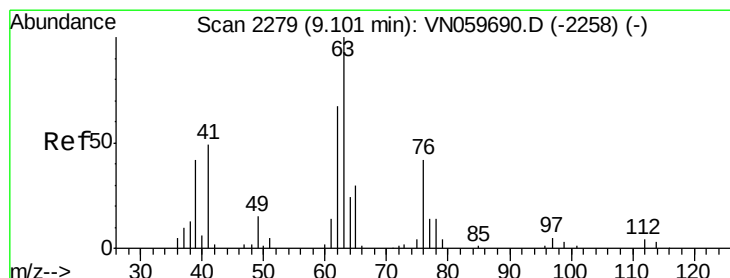
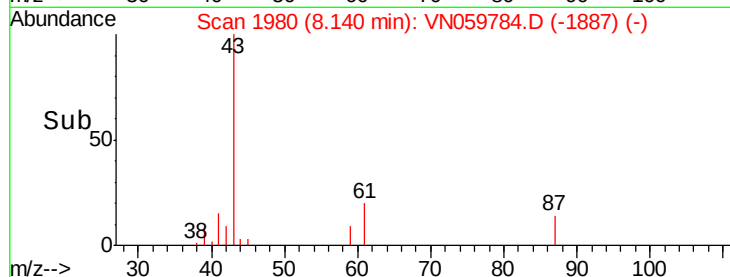
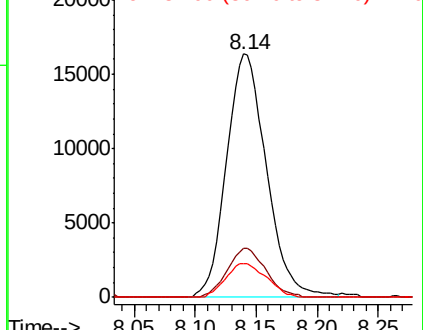
87 14.1 9.5 14.3



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



#45

1,2-Dichloropropane

Concen: 0.371 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN059784.D

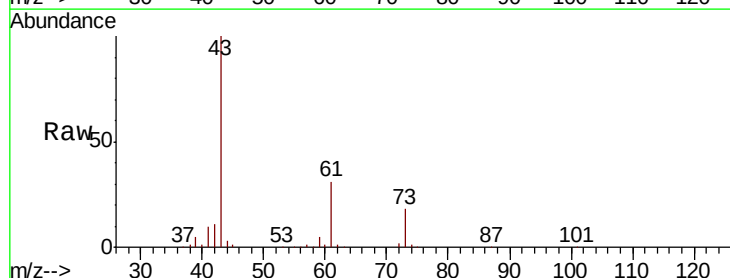
Acq: 20 Jan 2020 14:10

Tgt Ion: 63 Resp: 702

Ion Ratio Lower Upper

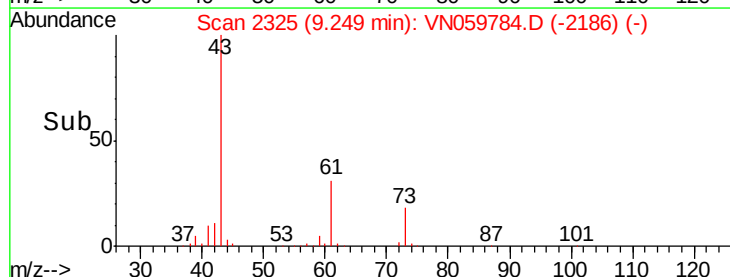
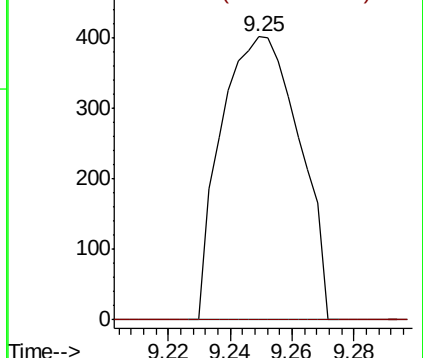
63 100

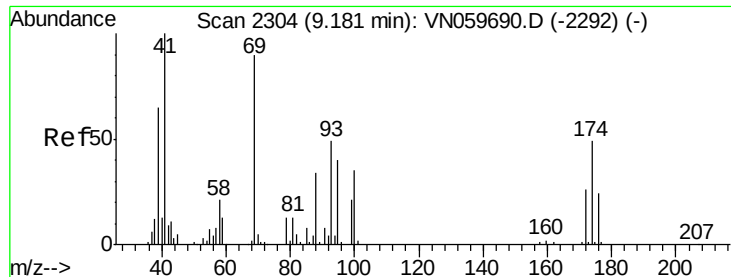
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

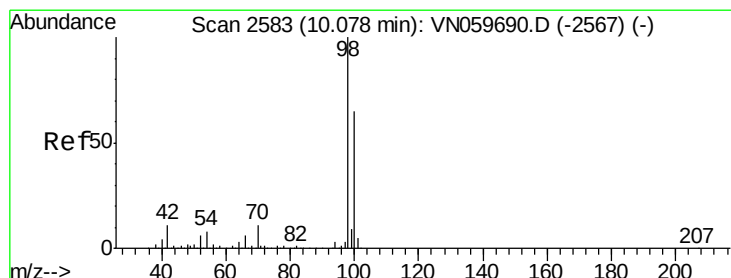
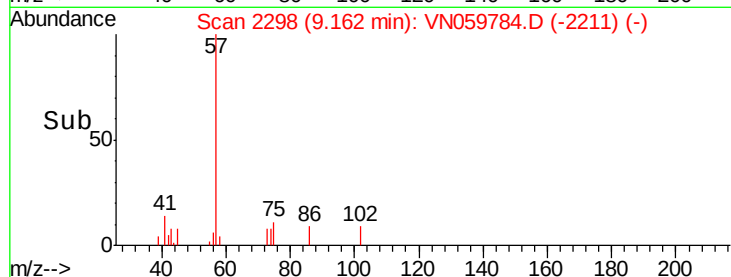
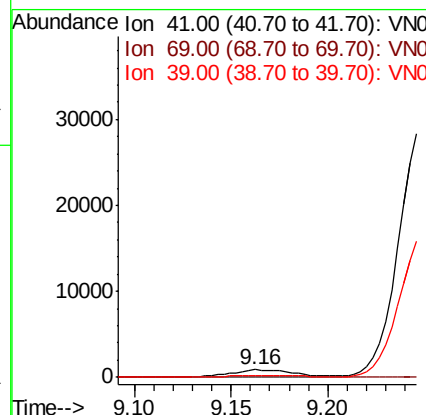
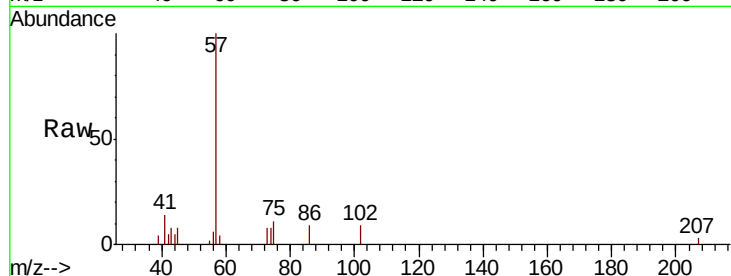




#48
Methvl methacrylate
Concen: 1.109 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059784.D
Acq: 20 Jan 2020 14:10

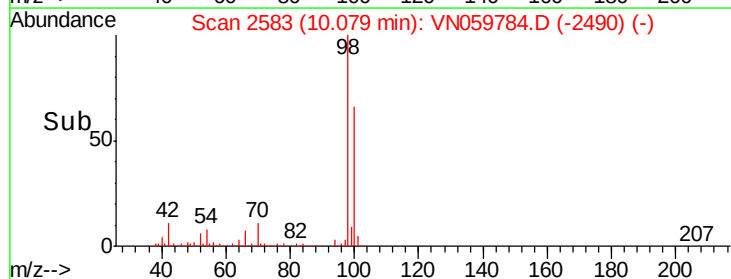
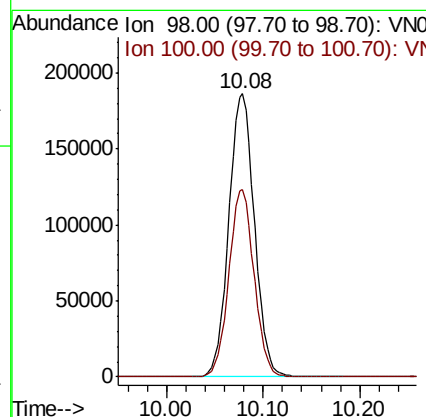
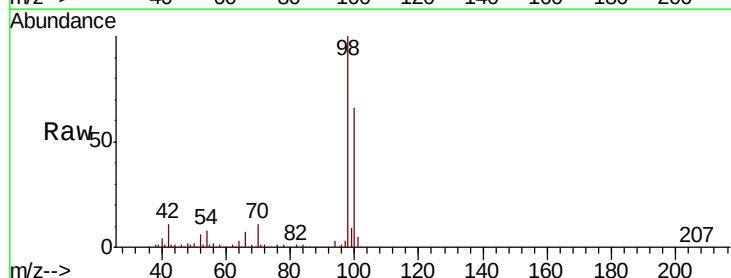
Instrument :
MSVOA_N
ClientSampleId :

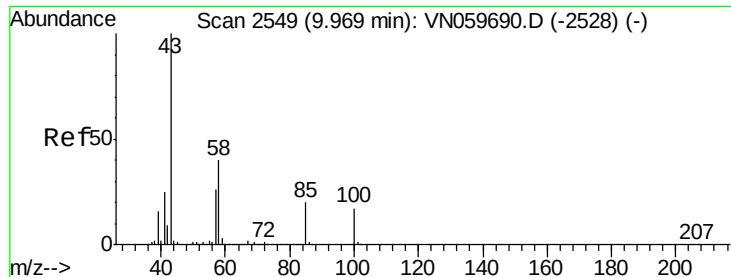
Tot Ion: 41 Resp: 2051
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 50.335 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059784.D
Acq: 20 Jan 2020 14:10

Tgt Ion: 98 Resp: 342271
Ion Ratio Lower Upper
98 100
100 65.2 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.154 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059784.D

Acq: 20 Jan 2020 14:10

Instrument :

MSVOA_N

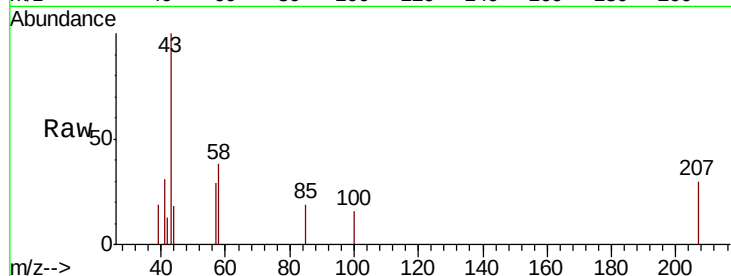
ClientSampled :

Tot Ion: 43 Resp: 2758

Ion Ratio Lower Upper

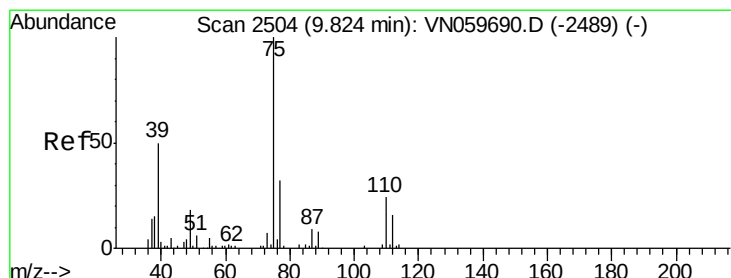
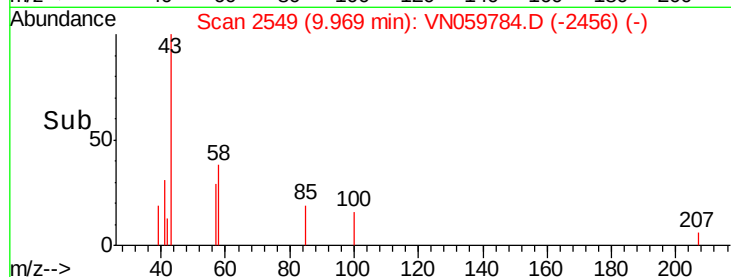
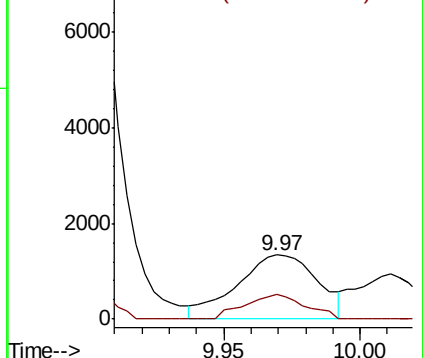
43 100

58 28.6 29.8 44.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.616 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN059784.D

Acq: 20 Jan 2020 14:10

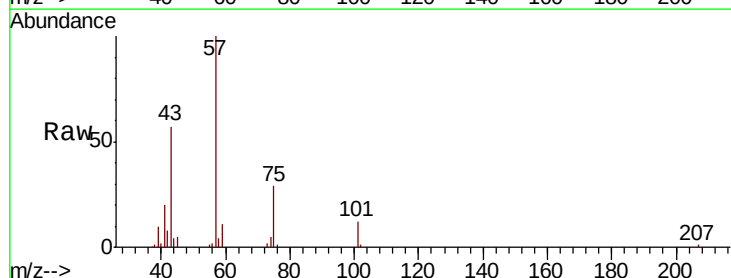
Tgt Ion: 75 Resp: 17739

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

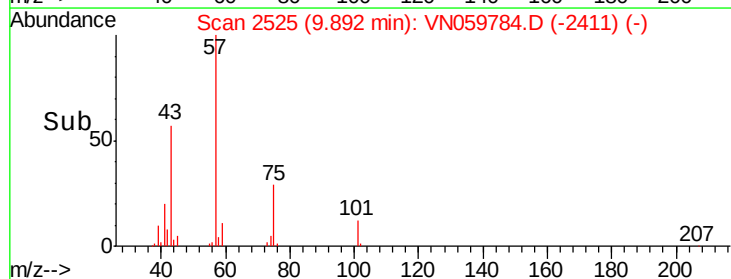
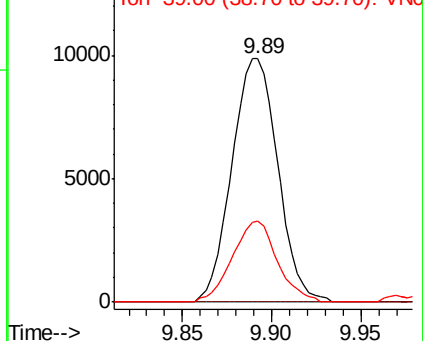
39 33.4 46.1 69.1#

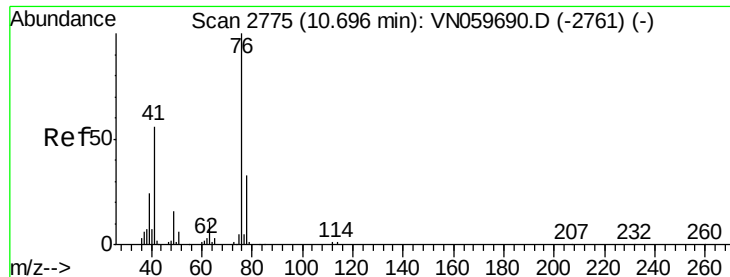


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.006 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN059784.D

Acq: 20 Jan 2020 14:10

Instrument :

MSVOA_N

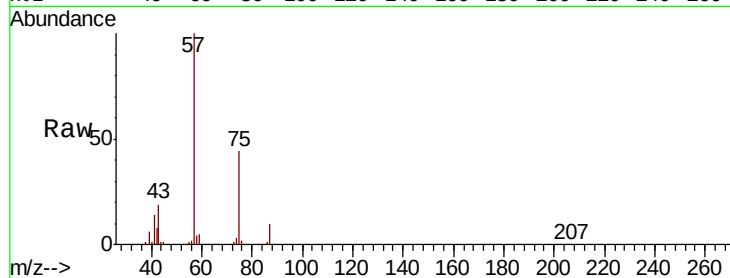
ClientSampled :

Tot Ion: 76 Resp: 3054

Ion Ratio Lower Upper

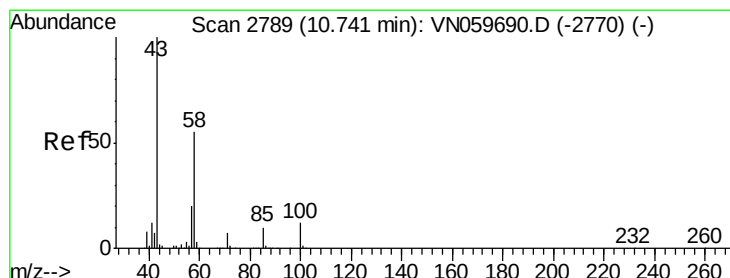
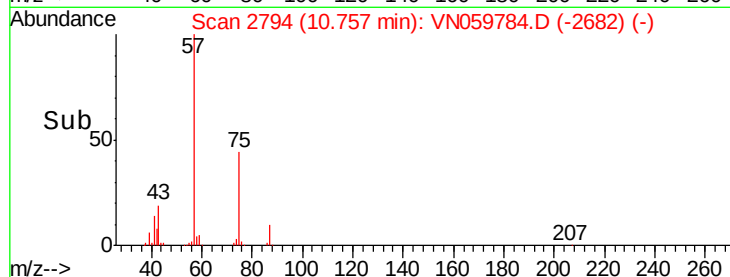
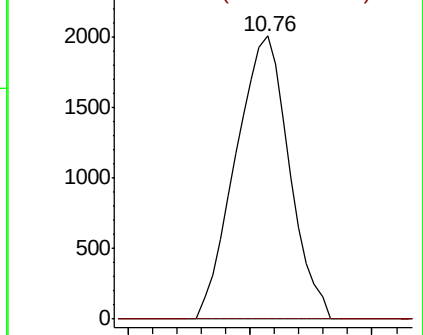
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 22.058 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059784.D

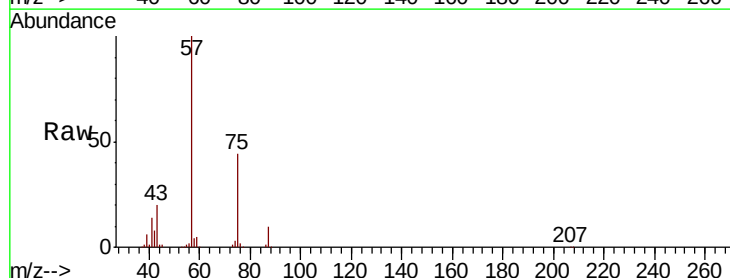
Acq: 20 Jan 2020 14:10

Tgt Ion: 43 Resp: 38838

Ion Ratio Lower Upper

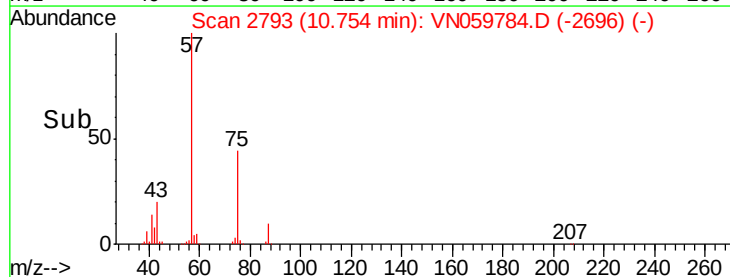
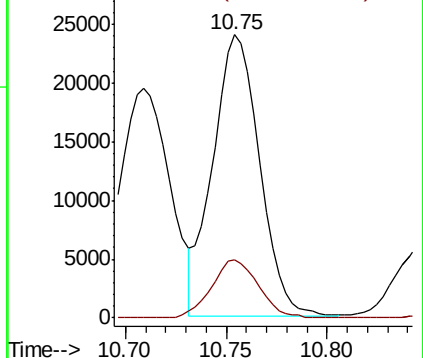
43 100

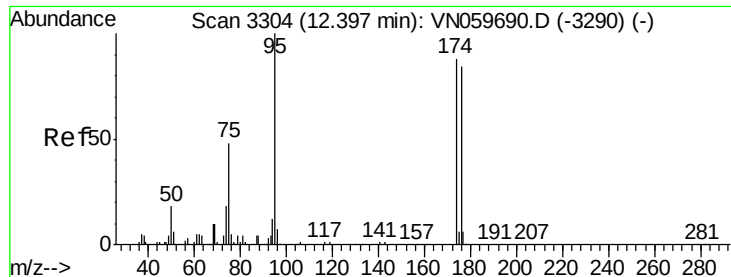
58 20.6 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 47.231 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059784.D

Acq: 20 Jan 2020 14:10

Instrument :

MSVOA_N

ClientSampleId :

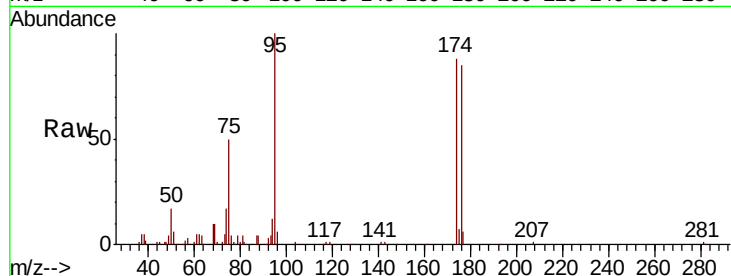
Tot Ion: 95 Resp: 115778

Ion Ratio Lower Upper

95 100

174 87.9 0.0 151.4

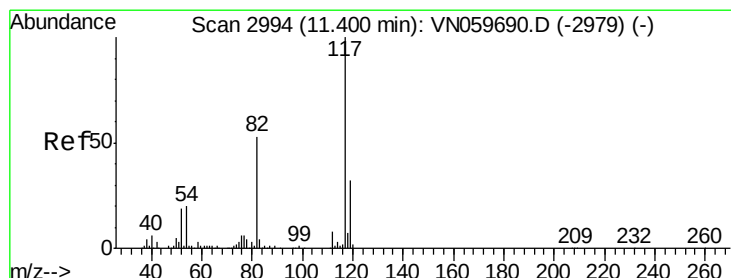
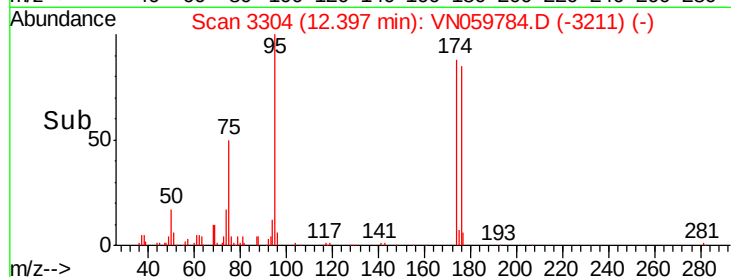
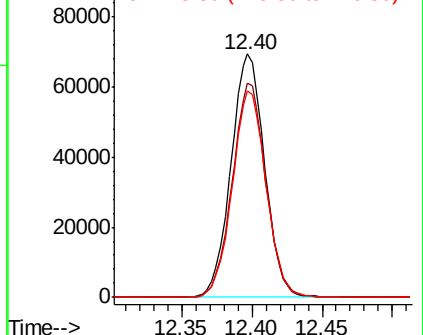
176 85.2 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059690.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN059690.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN059690.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059784.D

Acq: 20 Jan 2020 14:10

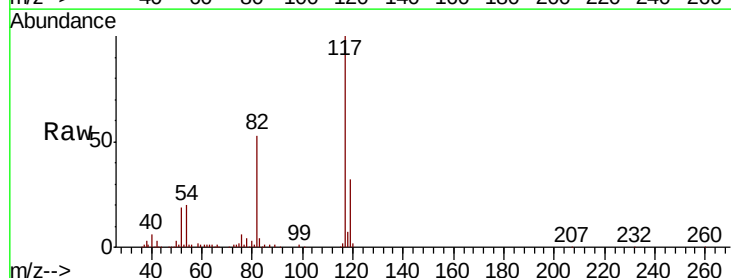
Tgt Ion: 117 Resp: 260347

Ion Ratio Lower Upper

117 100

82 52.6 45.9 68.9

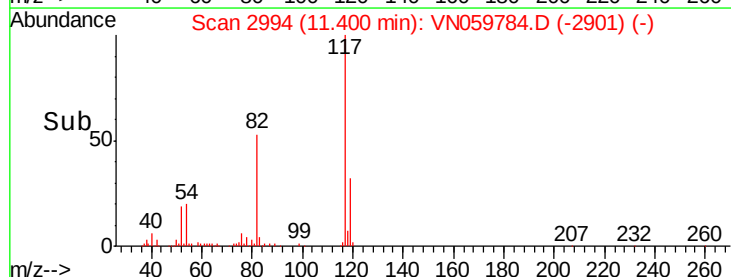
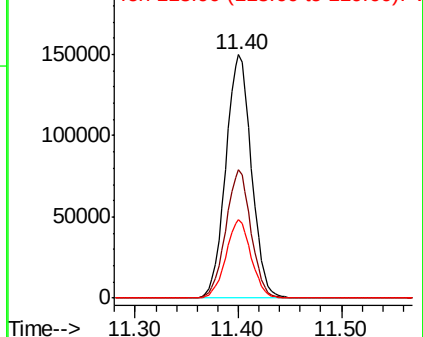
119 32.1 25.5 38.3

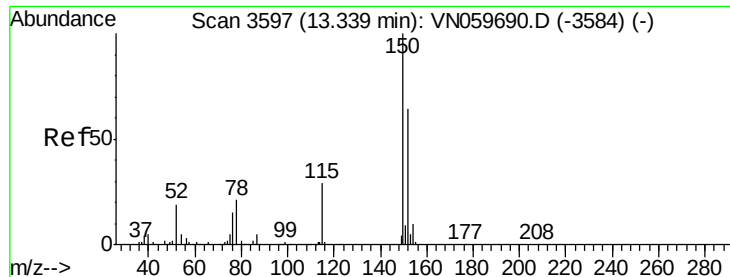


Abundance Ion 116.90 (116.60 to 117.60): VN059690.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN059690.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059690.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059784.D

Acq: 20 Jan 2020 14:10

Instrument :

MSVOA_N

ClientSampleId :

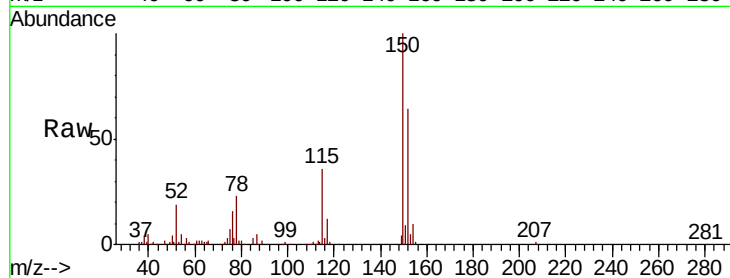
Tot Ion:152 Resp: 109483

Ion Ratio Lower Upper

152 100

115 55.9 30.3 90.9

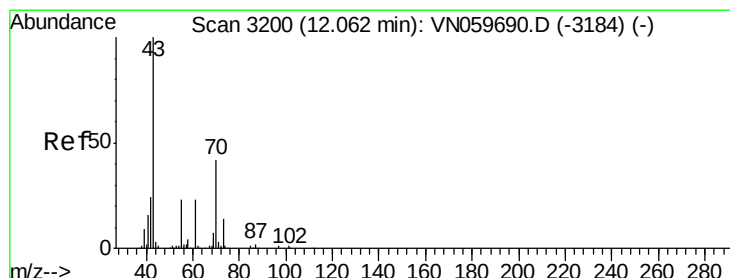
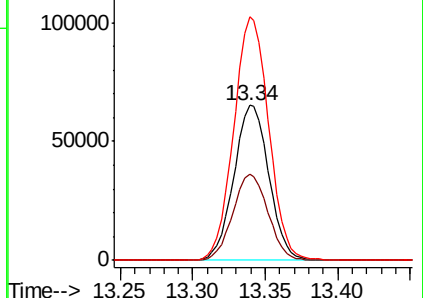
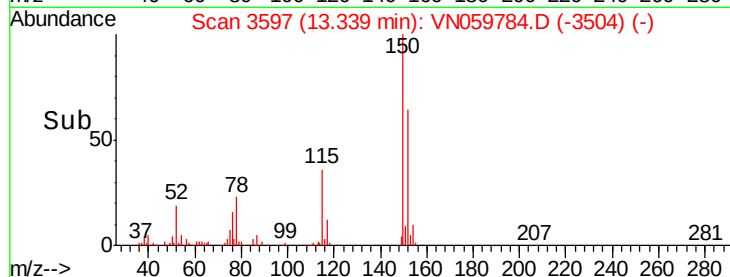
150 156.5 0.0 345.2



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: 0.472 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059784.D

Acq: 20 Jan 2020 14:10

Tgt Ion: 43 Resp: 1471

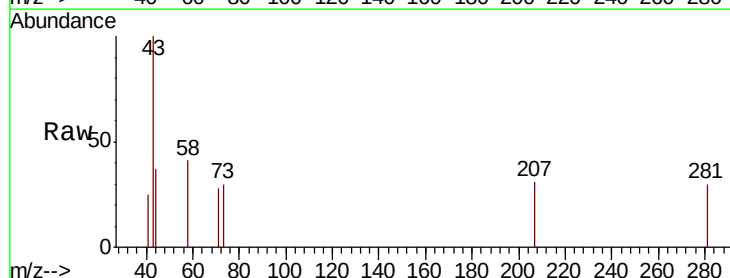
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

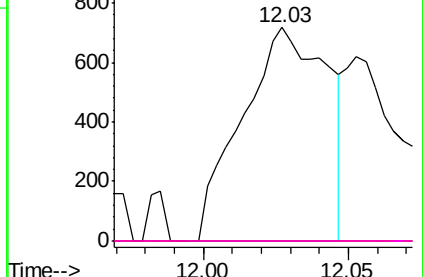
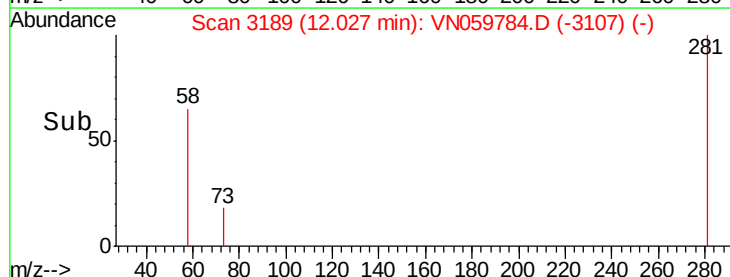


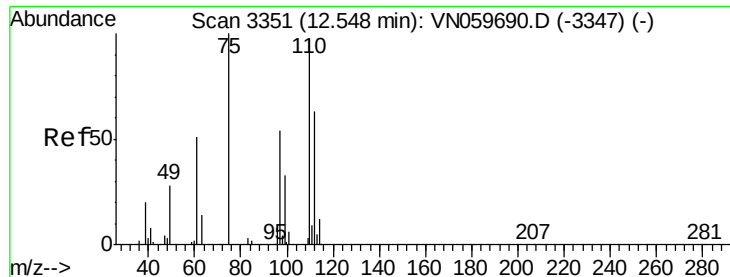
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 31.165 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059784.D

Acq: 20 Jan 2020 14:10

Instrument :

MSVOA_N

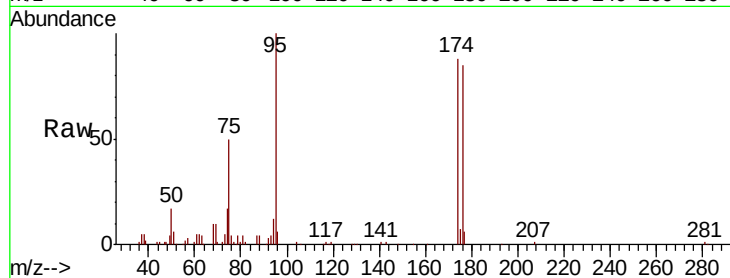
ClientSampled :

Tot Ion: 75 Resp: 57421

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN059690.D (-3347) (-)

12.40

40000

30000

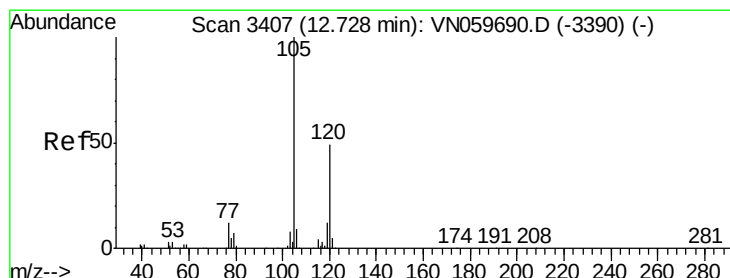
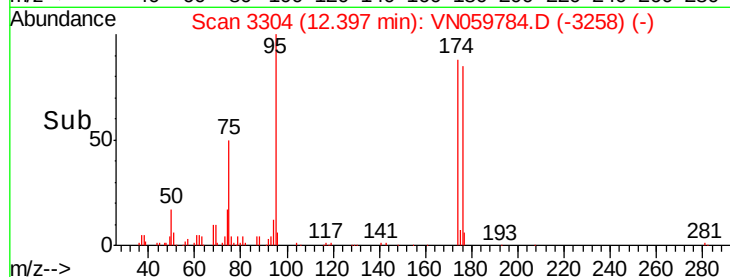
20000

10000

0

12.35 12.40 12.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.877 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059784.D

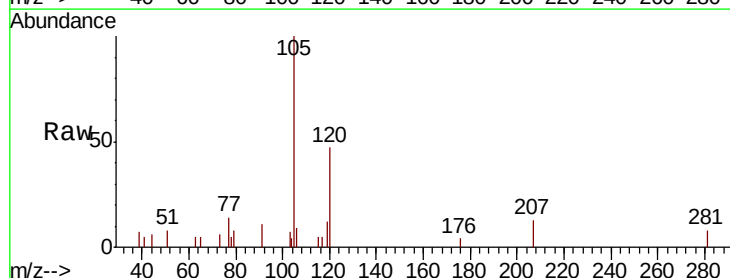
Acq: 20 Jan 2020 14:10

Tgt Ion: 105 Resp: 5920

Ion Ratio Lower Upper

105 100

120 49.6 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059690.D (-3390) (-)

Ion 120.00 (119.70 to 120.70): VN059690.D (-3390) (-)

12.73

4000

3000

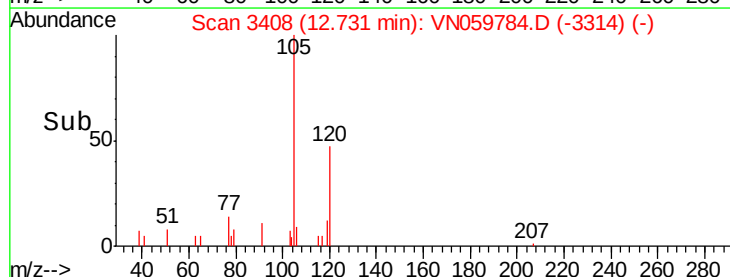
2000

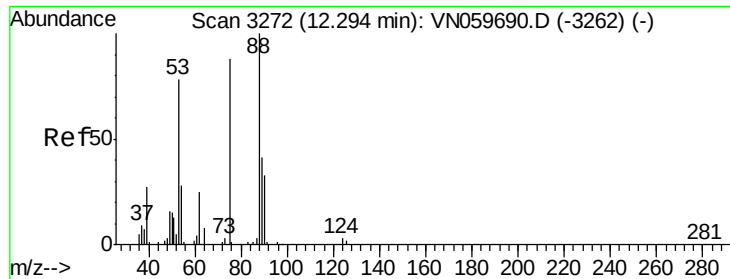
1000

0

12.70 12.75

Time-->

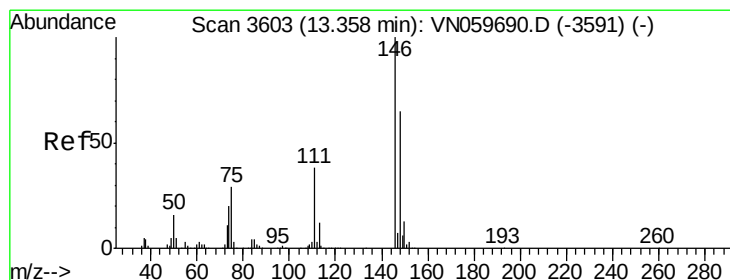
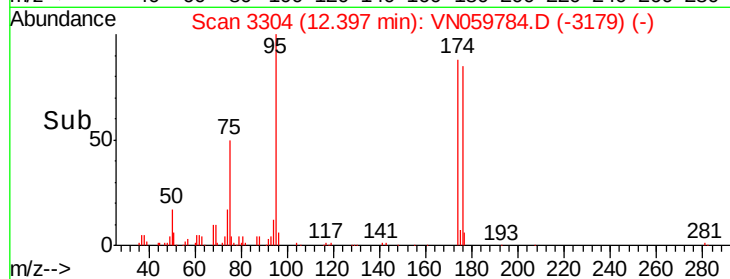
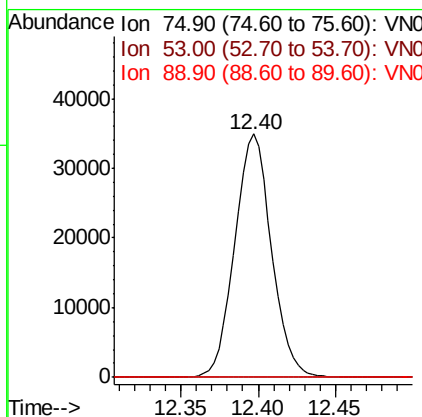
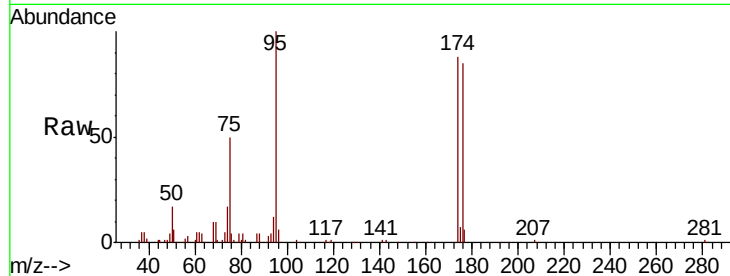




#81
trans-1,4-Dichloro-2-butene
Concen: 66.927 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN059784.D
Acq: 20 Jan 2020 14:10

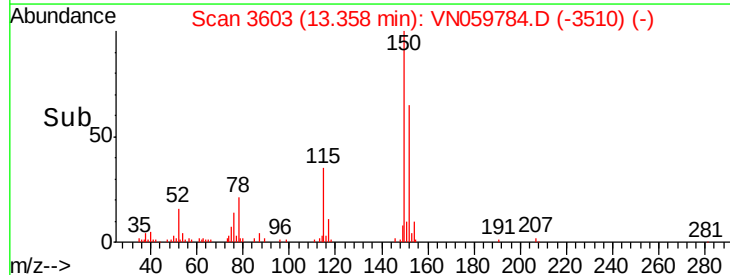
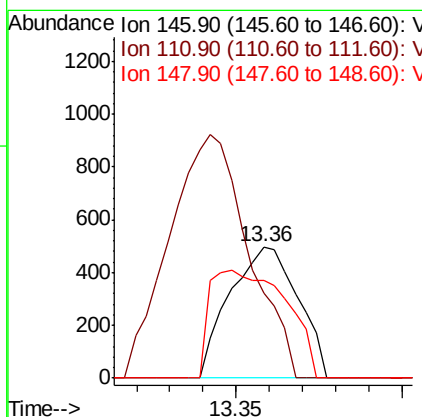
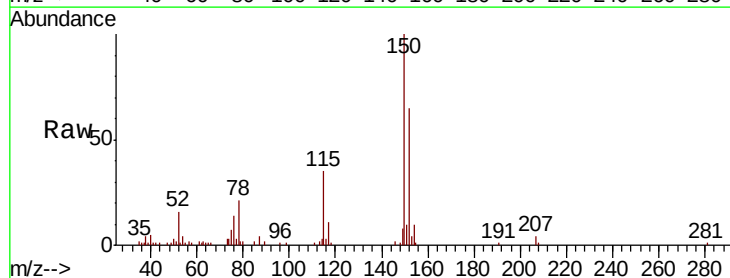
Instrument :
MSVOA_N
ClientSampleId :

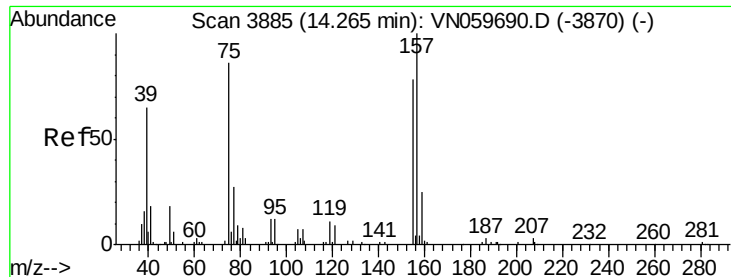
Tot Ion: 75 Resp: 57421
Ion Ratio Lower Upper
75 100
53 0.0 78.1 117.1#
89 0.0 35.4 53.2#



#88
1,4-Dichlorobenzene
Concen: 0.202 ug/l
RT: 13.36 min Scan# 3603
Delta R.T. 0.00 min
Lab File: VN059784.D
Acq: 20 Jan 2020 14:10

Tgt Ion: 146 Resp: 712
Ion Ratio Lower Upper
146 100
111 213.9 20.8 62.2#
148 91.7 31.8 95.4

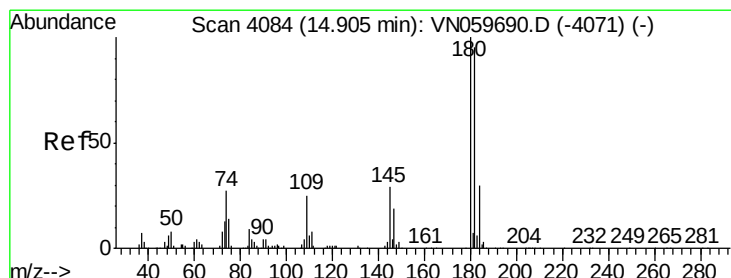
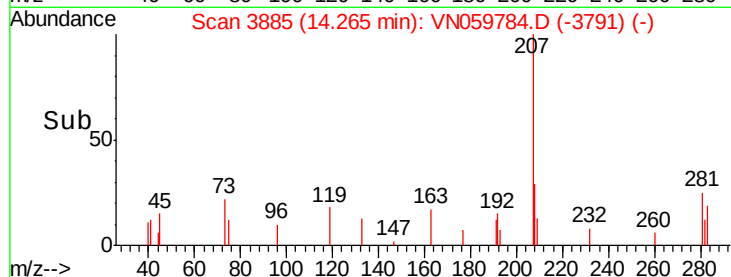
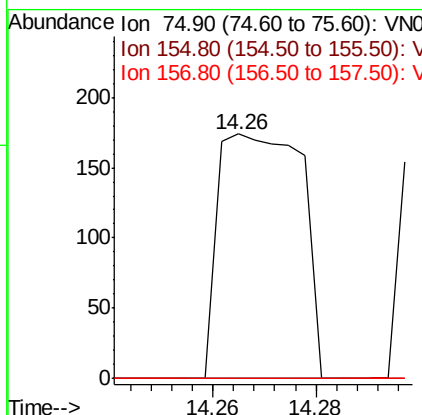
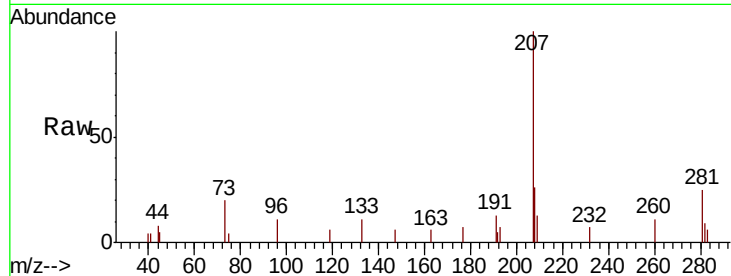




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.26 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VN059784.D
 Acq: 20 Jan 2020 14:10

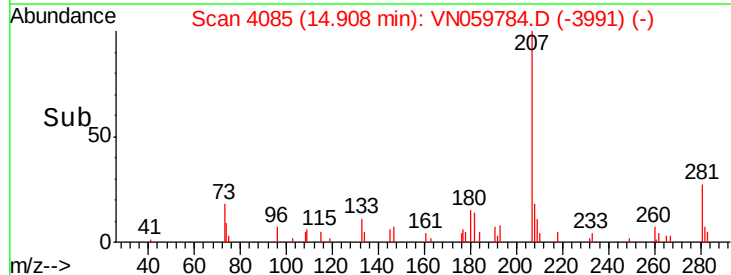
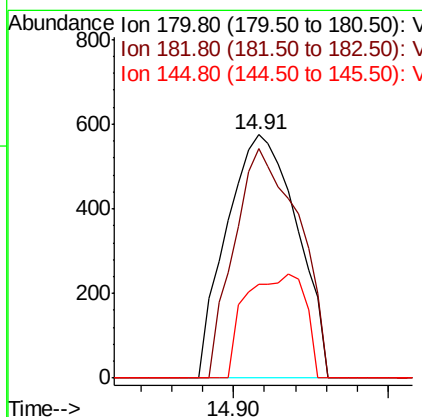
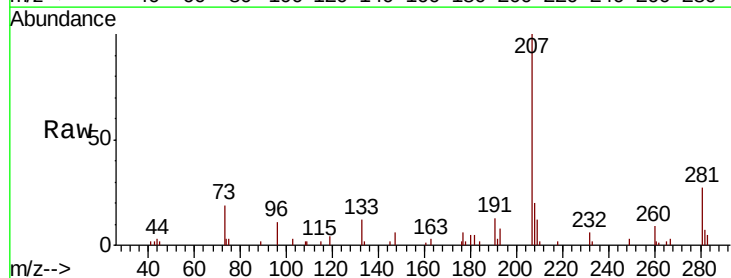
Instrument :
 MSVOA_N
 ClientSampled :

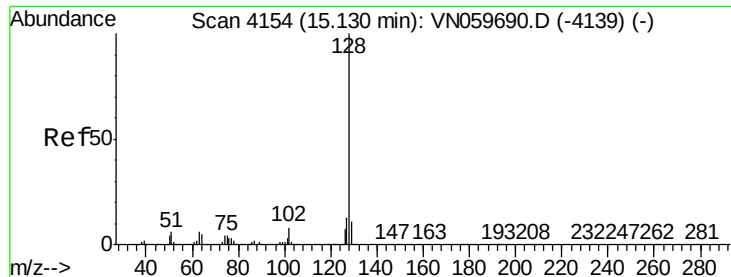
Tot Ion: 75 Resp: 194
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 110.9#
 157 0.0 48.4 145.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.433 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN059784.D
 Acq: 20 Jan 2020 14:10

Tgt Ion: 180 Resp: 908
 Ion Ratio Lower Upper
 180 100
 182 86.8 46.9 140.7
 145 35.8 15.0 45.1





#95

Naphthalene

Concen: 0.682 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059784.D

Acq: 20 Jan 2020 14:10

Instrument :

MSVOA_N

ClientSampled :

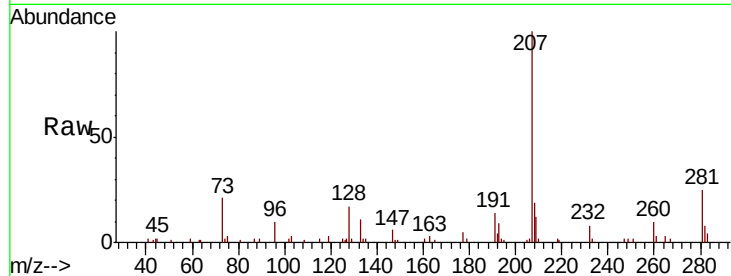
Tot Ion:128 Resp: 4070

Ion Ratio Lower Upper

128 100

127 8.1 10.4 15.6#

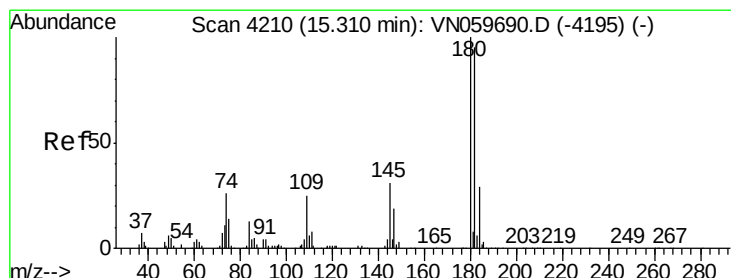
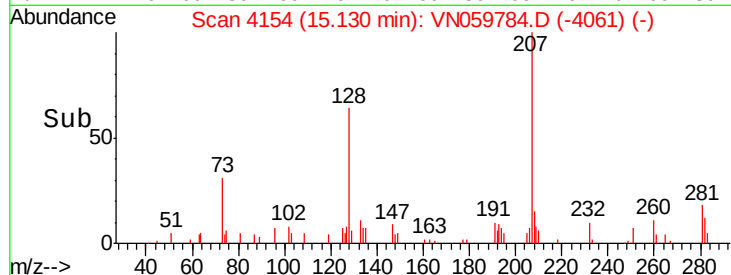
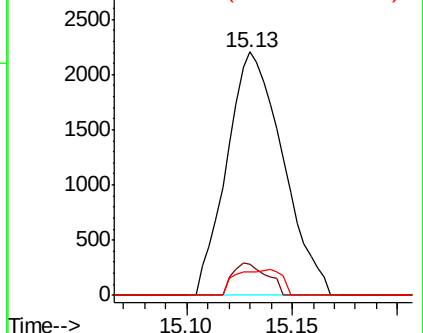
129 8.6 8.6 12.8



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: 0.687 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.01 min

Lab File: VN059784.D

Acq: 20 Jan 2020 14:10

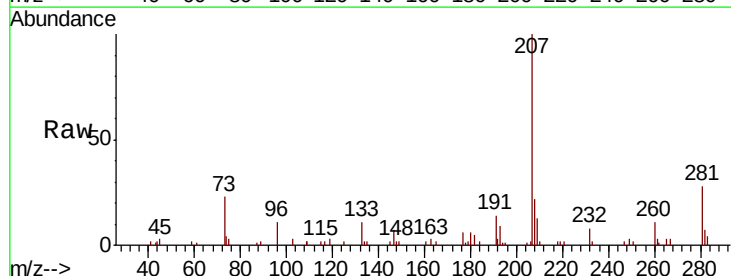
Tgt Ion:180 Resp: 1404

Ion Ratio Lower Upper

180 100

182 71.5 47.4 142.3

145 47.9 16.3 48.9



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

