

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102919\
 Data File : VN059011.D
 Acq On : 29 Oct 2019 15:23
 Operator : JC/SP
 Sample : K5576-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 30 03:57:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	384308	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	603805	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	554673	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	197307	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	270936	48.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.14%	
35) Dibromofluoromethane	7.57	113	196054	49.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.78%	
50) Toluene-d8	10.08	98	776634	50.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.80%	
62) 4-Bromofluorobenzene	12.40	95	243558	43.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.08%	

Target Compounds

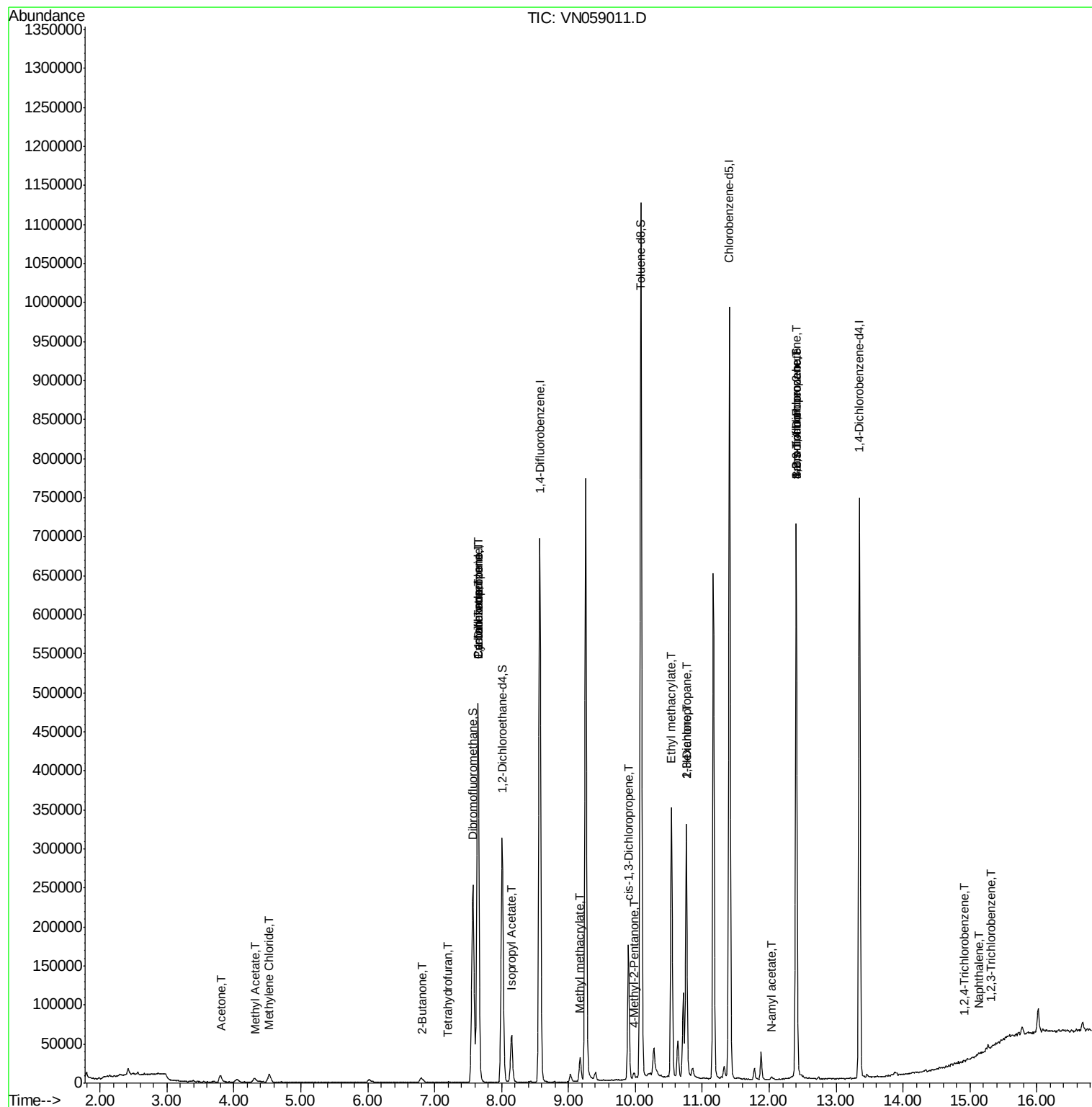
						Qvalue
16) Acetone	3.80	43	16902	6.068	ug/l	97
18) Methyl Acetate	4.31	43	10114	1.597	ug/l #	81
20) Methylene Chloride	4.53	84	7614	1.601	ug/l	93
25) 2-Butanone	6.82	43	1572	0.435	ug/l	99
29) Tetrahydrofuran	7.20	42	462	0.209	ug/l #	36
31) Cyclohexane	7.65	56	8852	1.093	ug/l #	8
36) 1,1-Dichloropropene	7.65	75	32092	5.191	ug/l #	51
38) Carbon Tetrachloride	7.64	117	37600	5.904	ug/l #	17
43) Isopropyl Acetate	8.15	43	72150	6.679	ug/l #	91
48) Methyl methacrylate	9.17	41	5200	1.061	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	6232	0.988	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	29996	3.910	ug/l #	62
56) Ethyl methacrylate	10.54	69	1774	2.326	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3196	0.411	ug/l #	43
59) 2-Hexanone	10.76	43	48976	10.045	ug/l #	56
71) Bromoform	12.40	173	1367	0.414	ug/l #	1
74) N-amyl acetate	12.04	43	2410	0.369	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	129073	28.226	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	129073	73.532	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.91	180	31	2.528	ug/l #	13
95) Naphthalene	15.13	128	343	2.254	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.30	180	30	2.402	ug/l #	1

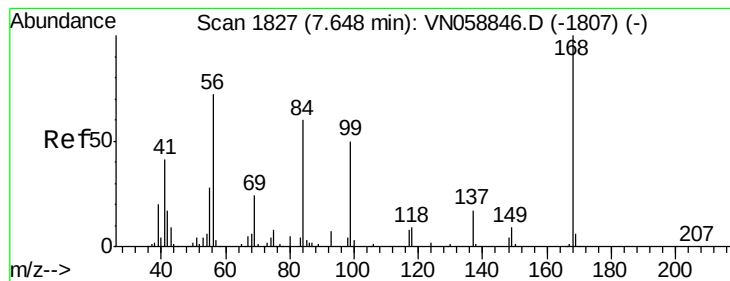
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Oct 19 00:16:20 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059011.D

Acq: 29 Oct 2019 15:23

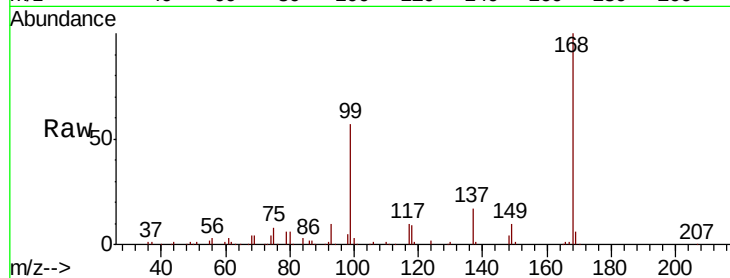
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 384308

Ion Ratio Lower Upper

168 100

99 57.5 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

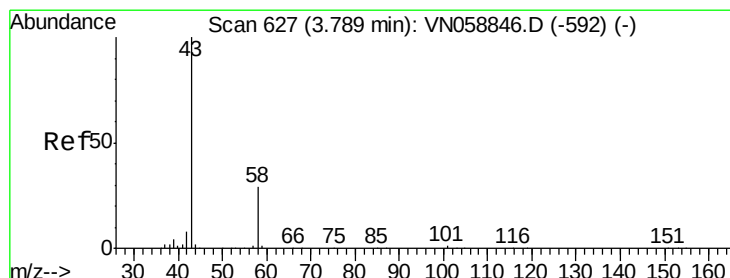
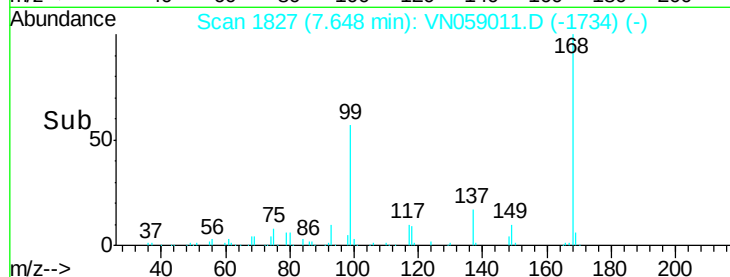
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 6.068 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN059011.D

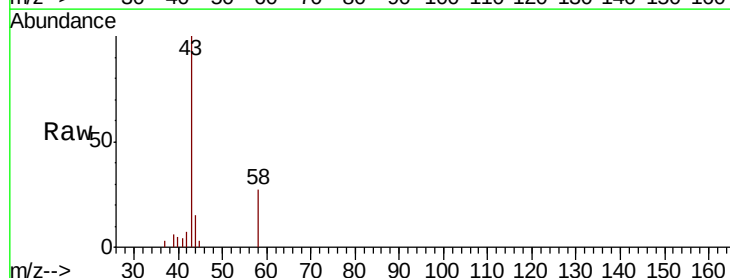
Acq: 29 Oct 2019 15:23

Tgt Ion: 43 Resp: 16902

Ion Ratio Lower Upper

43 100

58 27.3 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.80

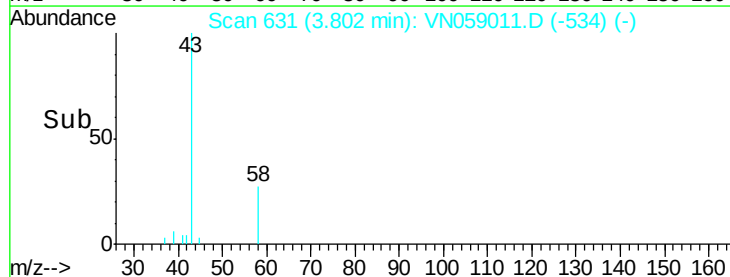
6000

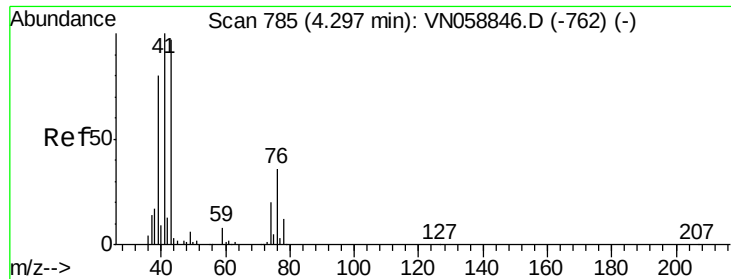
4000

2000

0

Time--> 3.70 3.75 3.80 3.85 3.90

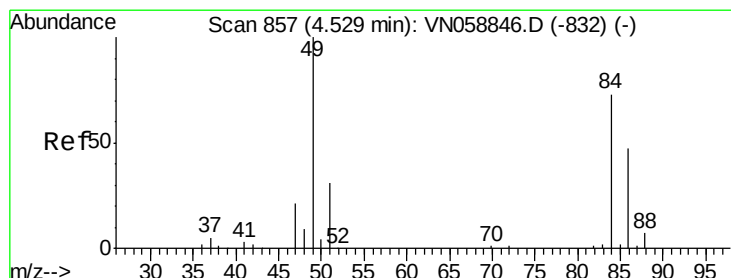
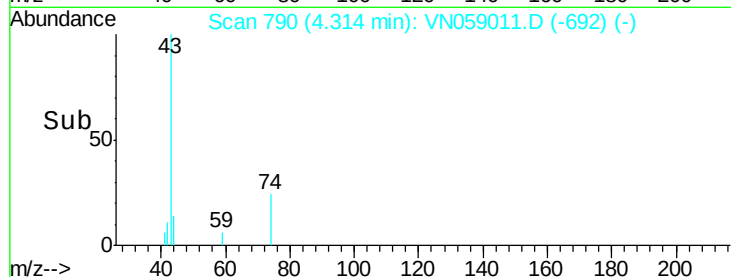
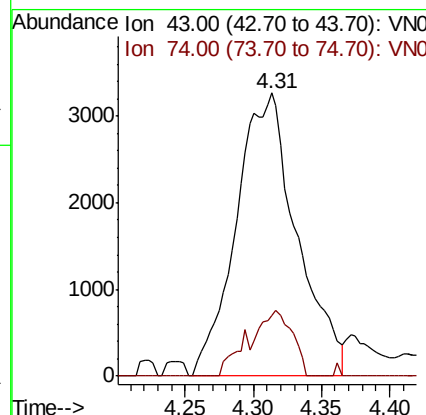
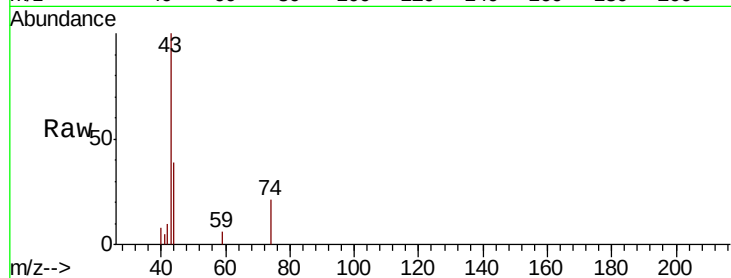




#18
Methvl Acetate
Concen: 1.597 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.02 min
Lab File: VN059011.D
Acq: 29 Oct 2019 15:23

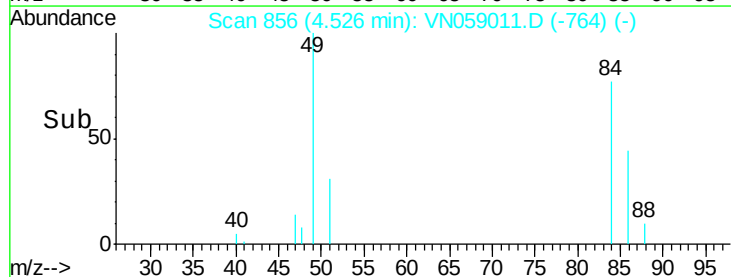
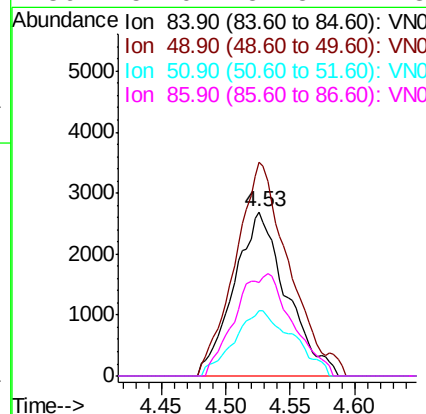
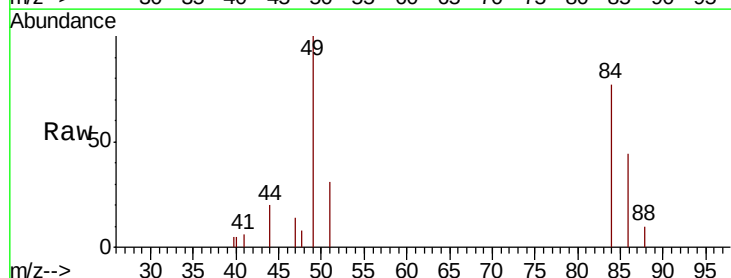
Instrument :
MSVOA_N
ClientSampleId :

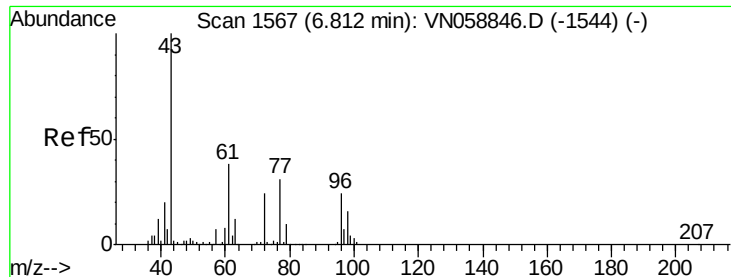
Tot Ion: 43 Resp: 10114
Ion Ratio Lower Upper
43 100
74 12.6 17.1 25.7#



#20
Methylene Chloride
Concen: 1.601 ug/l
RT: 4.53 min Scan# 856
Delta R.T. -0.00 min
Lab File: VN059011.D
Acq: 29 Oct 2019 15:23

Tgt Ion: 84 Resp: 7614
Ion Ratio Lower Upper
84 100
49 129.9 109.6 164.4
51 39.7 33.8 50.6
86 57.0 51.5 77.3





#25

2-Butanone

Concen: 0.435 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN059011.D

Acq: 29 Oct 2019 15:23

Instrument :

MSVOA_N

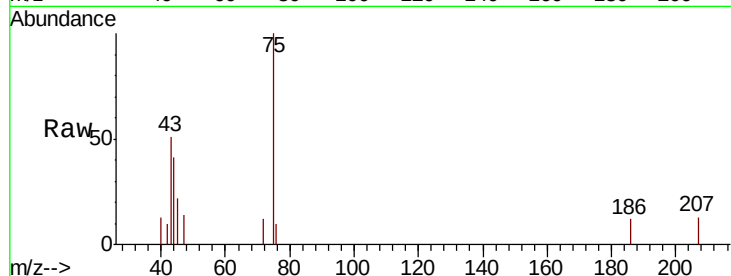
ClientSampled :

Tot Ion: 43 Resp: 1572

Ion Ratio Lower Upper

43 100

72 23.2 19.1 28.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.82

800

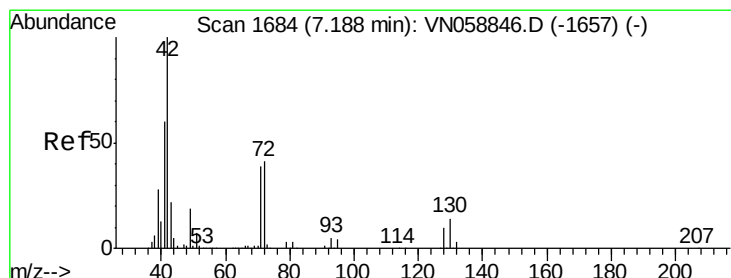
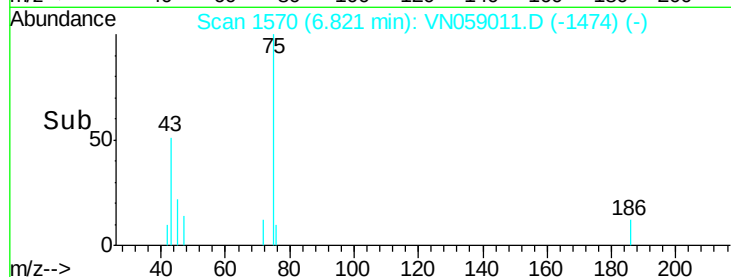
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 0.209 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.01 min

Lab File: VN059011.D

Acq: 29 Oct 2019 15:23

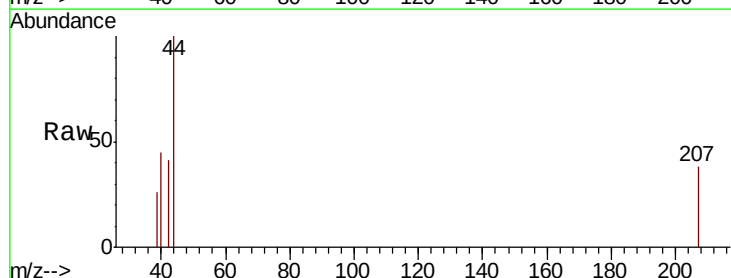
Tgt Ion: 42 Resp: 462

Ion Ratio Lower Upper

42 100

72 0.0 32.2 48.2#

71 0.0 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

400

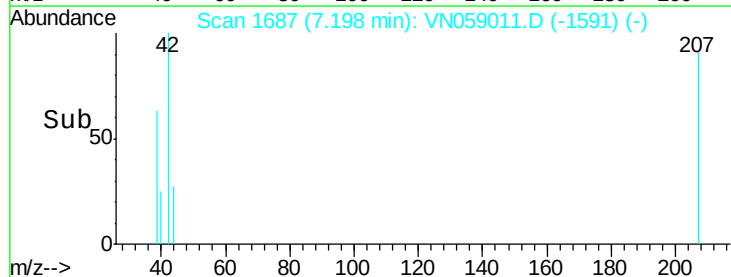
300

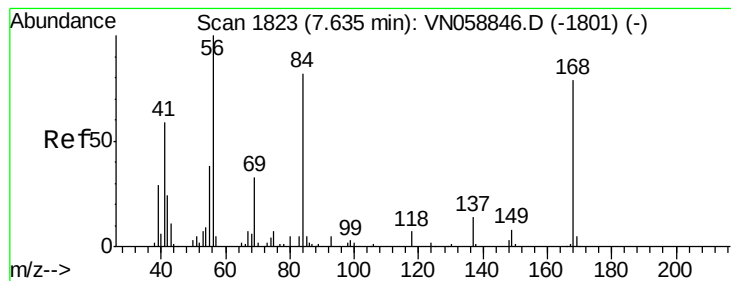
200

100

0

Time-->





#31

Cyclohexane

Concen: 1.093 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN059011.D

Acq: 29 Oct 2019 15:23

Instrument :

MSVOA_N

ClientSampled :

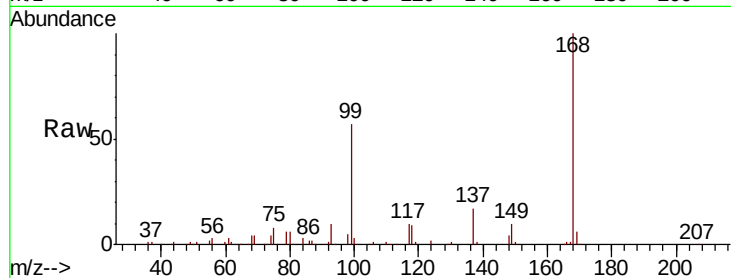
Tot Ion: 56 Resp: 8852

Ion Ratio Lower Upper

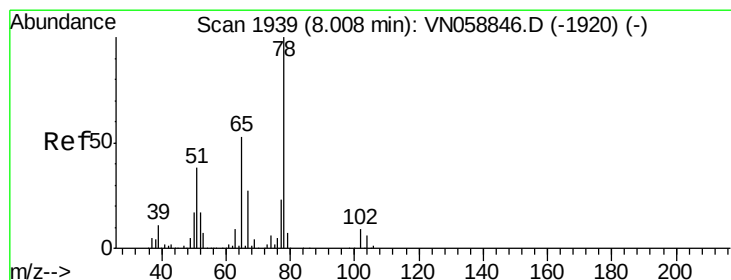
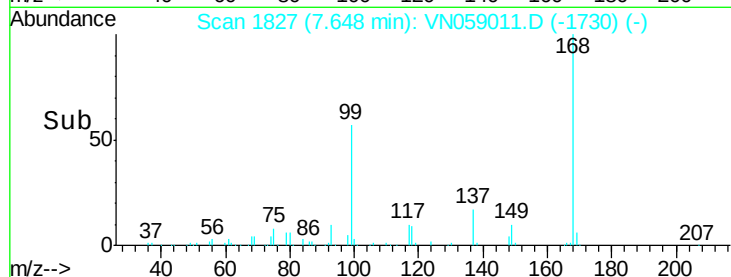
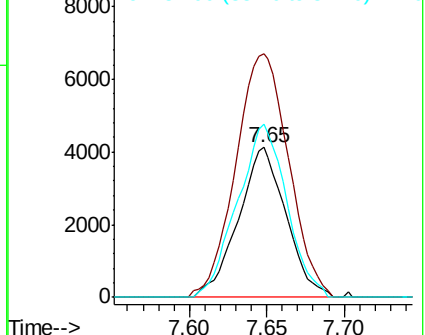
56 100

69 162.4 26.2 39.4#

84 115.2 65.6 98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 48.068 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059011.D

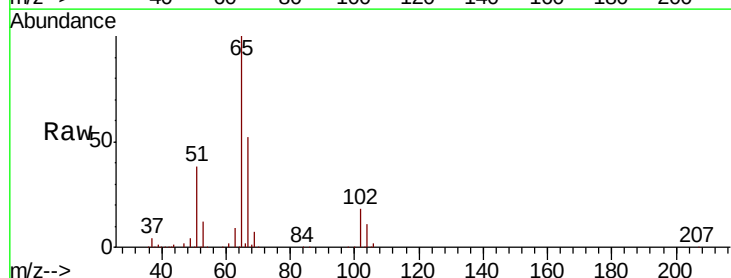
Acq: 29 Oct 2019 15:23

Tgt Ion: 65 Resp: 270936

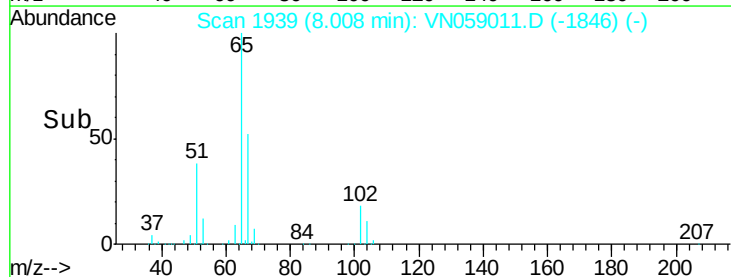
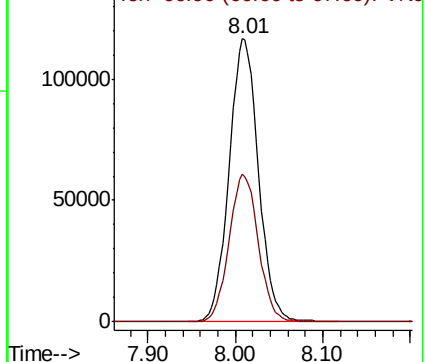
Ion Ratio Lower Upper

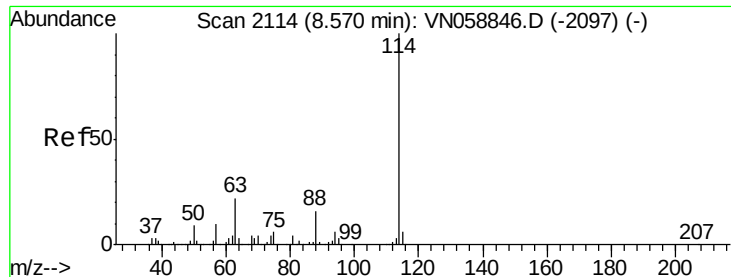
65 100

67 52.0 0.0 103.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059011.D

Acq: 29 Oct 2019 15:23

Instrument :
MSVOA_N
ClientSampleId :

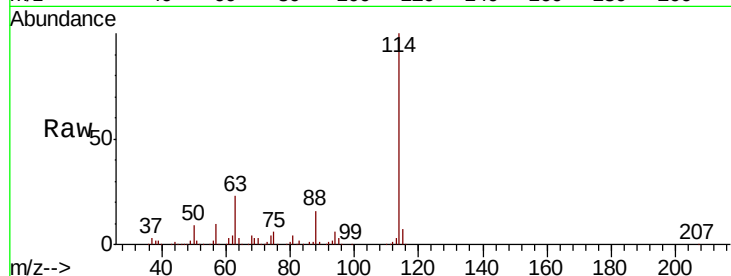
Tot Ion:114 Resp: 603805

Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	44.4
88	15.6	0.0	31.4

114 100

63 22.6 0.0 44.4

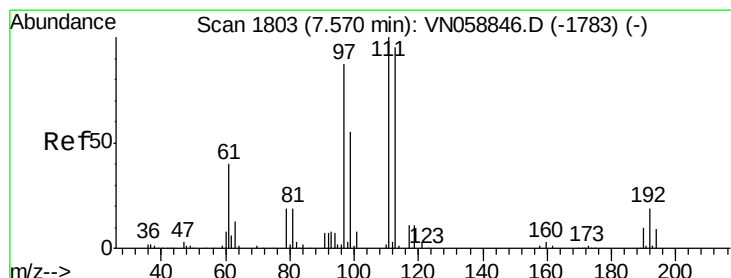
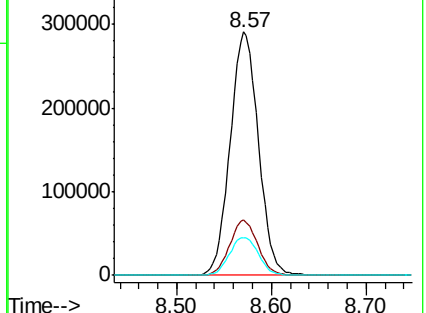
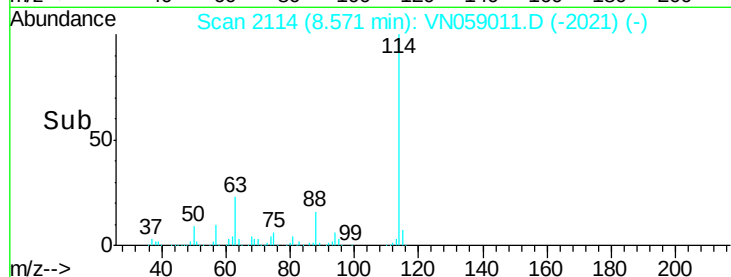
88 15.6 0.0 31.4



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: 49.386 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN059011.D

Acq: 29 Oct 2019 15:23

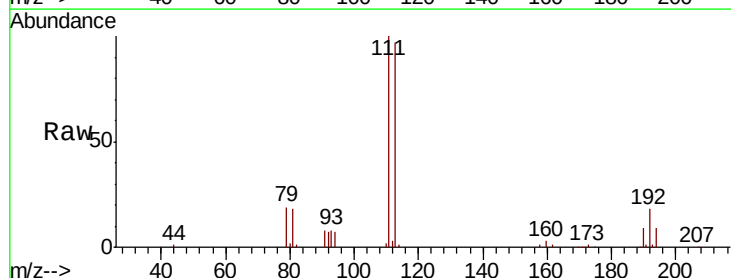
Tgt Ion:113 Resp: 196054

Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.0	123.0
192	19.1	15.0	22.6

113 100

111 101.8 82.0 123.0

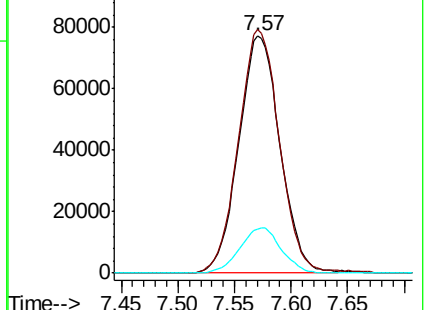
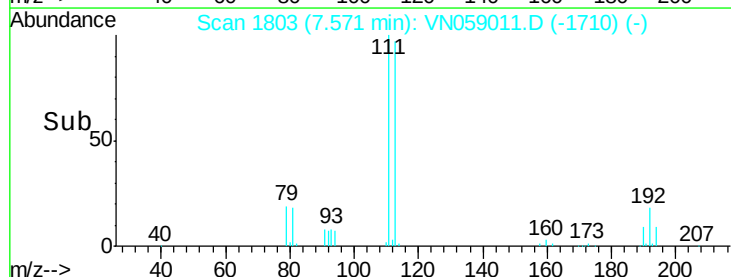
192 19.1 15.0 22.6

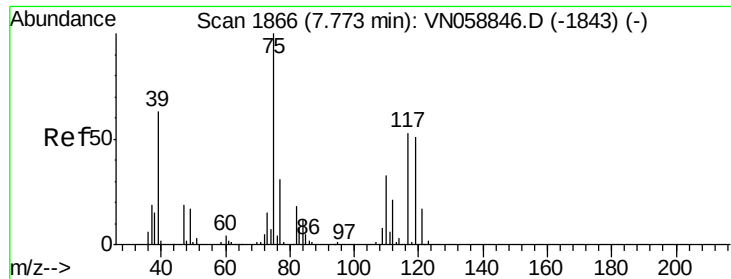


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

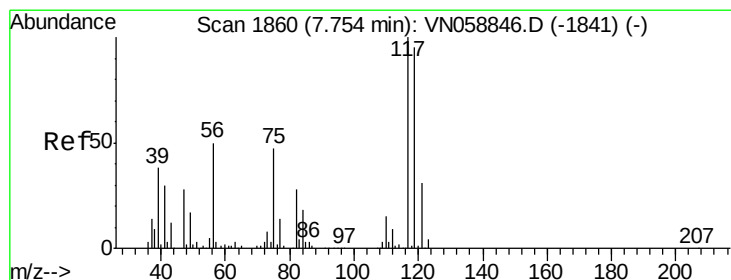
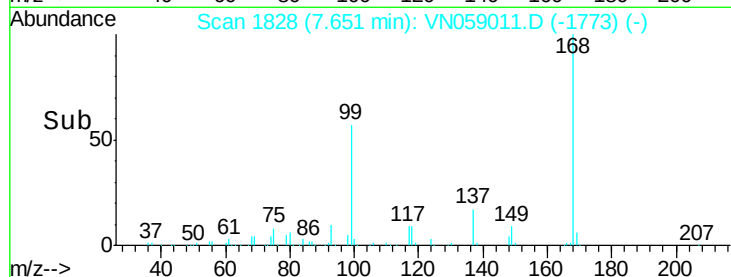
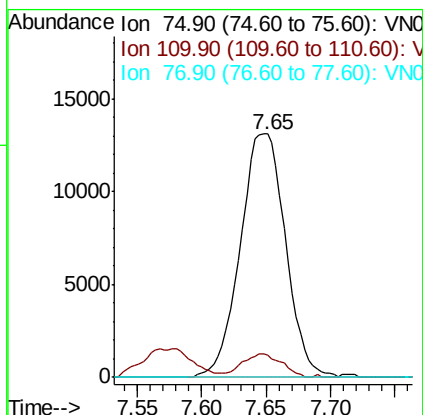
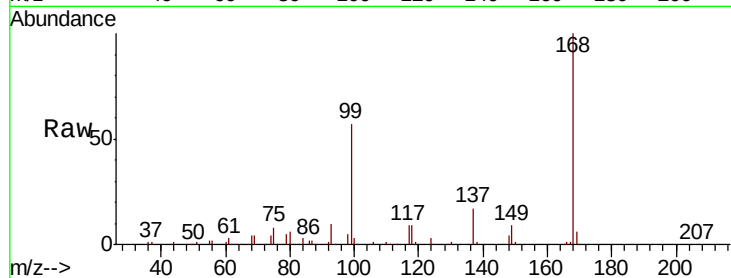




#36
 1,1-Dichloropropene
 Concen: 5.191 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.12 min
 Lab File: VN059011.D
 Acq: 29 Oct 2019 15:23

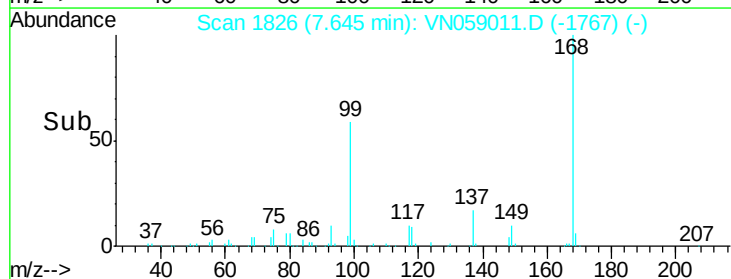
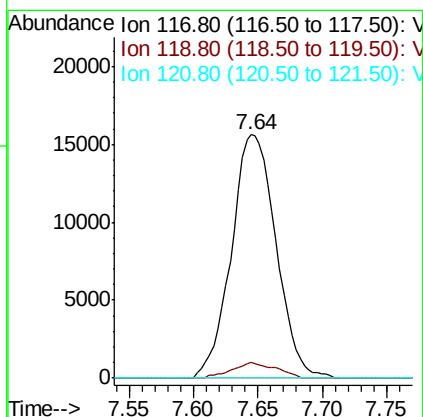
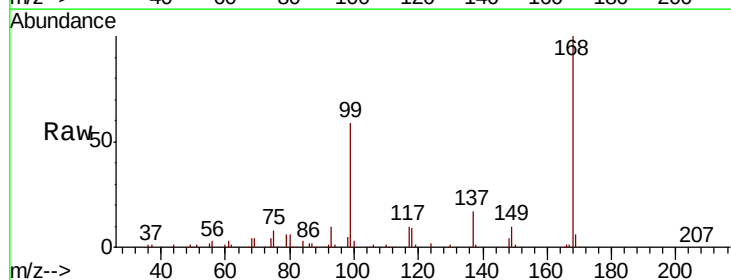
Instrument :
 MSVOA_N
 ClientSampled :

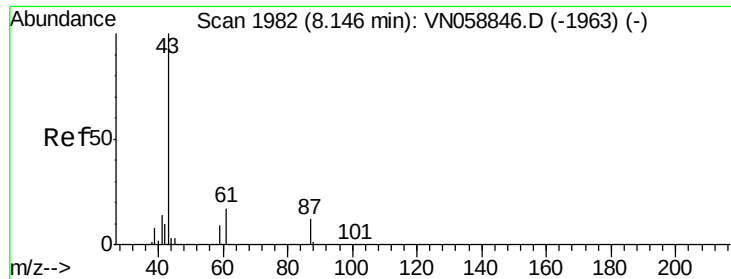
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.5	16.3	48.9#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.904 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059011.D
 Acq: 29 Oct 2019 15:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	75.7	113.5#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 6.679 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059011.D

Acq: 29 Oct 2019 15:23

Instrument :

MSVOA_N

ClientSampleId :

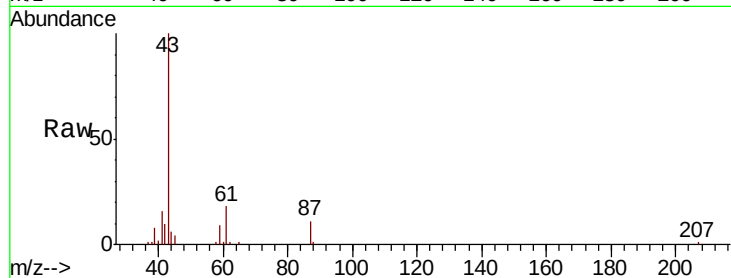
Tot Ion: 43 Resp: 72150

Ion Ratio Lower Upper

43 100

61 18.9 20.2 30.2#

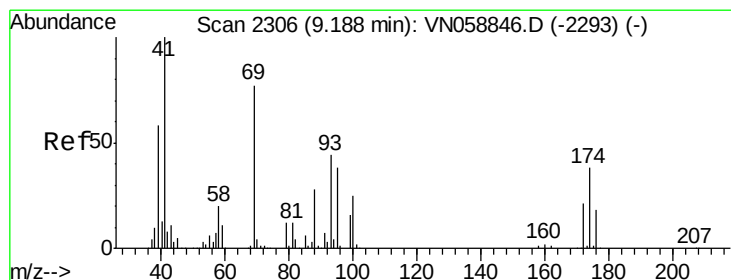
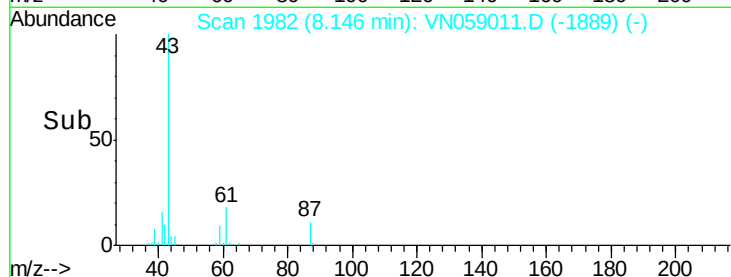
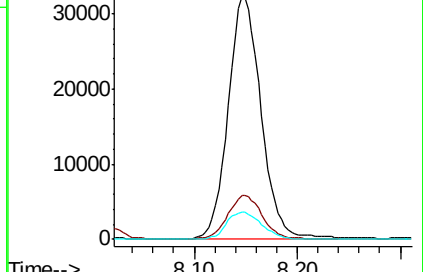
87 11.7 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN058846.D (-1963) (-)

Ion 61.00 (60.70 to 61.70): VN058846.D (-1963) (-)

Ion 87.00 (86.70 to 87.70): VN058846.D (-1963) (-)



#48

Methyl methacrylate

Concen: 1.061 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.02 min

Lab File: VN059011.D

Acq: 29 Oct 2019 15:23

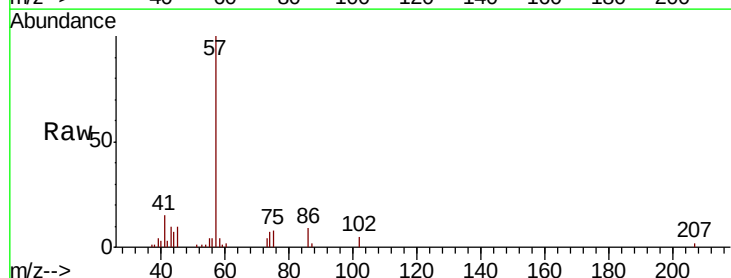
Tgt Ion: 41 Resp: 5200

Ion Ratio Lower Upper

41 100

69 0.0 63.8 95.6#

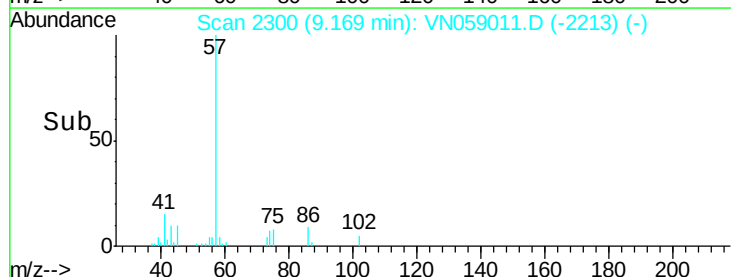
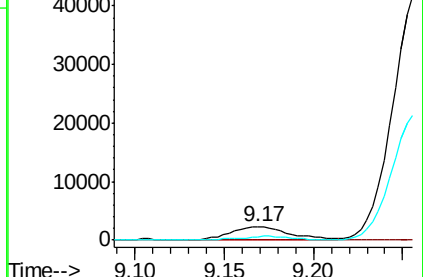
39 0.0 47.8 71.8#

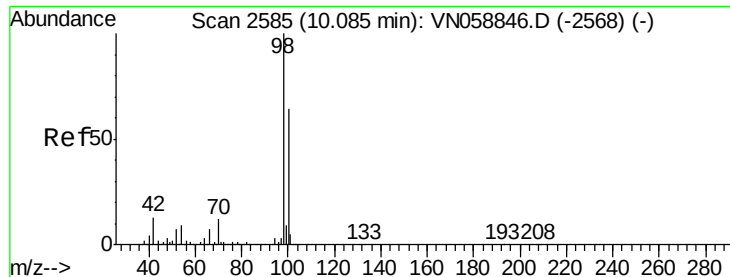


Abundance Ion 41.00 (40.70 to 41.70): VN058846.D (-2293) (-)

Ion 69.00 (68.70 to 69.70): VN058846.D (-2293) (-)

Ion 39.00 (38.70 to 39.70): VN058846.D (-2293) (-)





#50

Toluene-d8

Concen: 50.397 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN059011.D

Acq: 29 Oct 2019 15:23

Instrument :

MSVOA_N

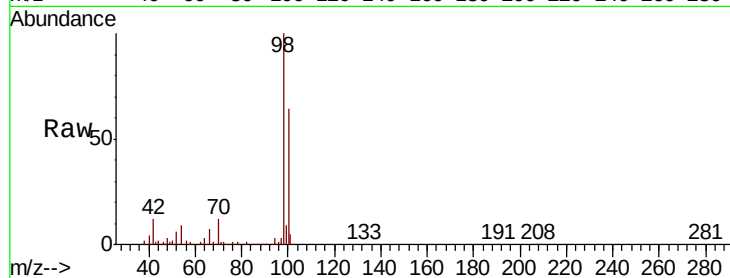
ClientSampleId :

Tot Ion: 98 Resp: 776634

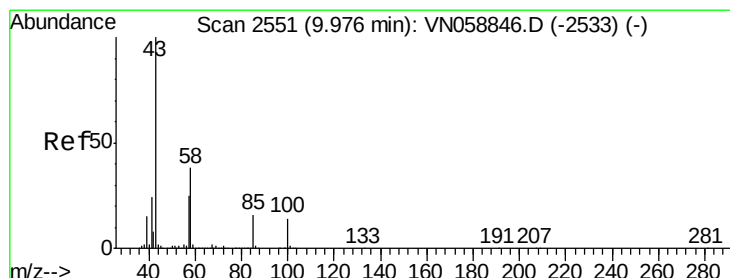
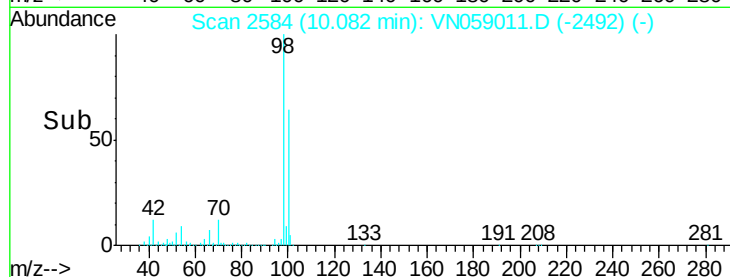
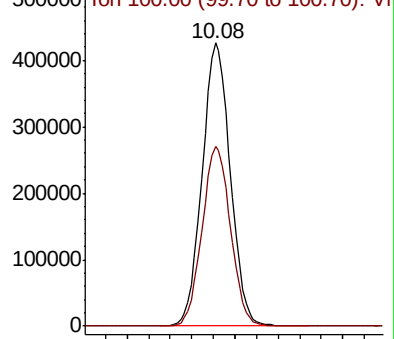
Ion Ratio Lower Upper

98 100

100 64.1 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN058846.D (-2568) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.988 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059011.D

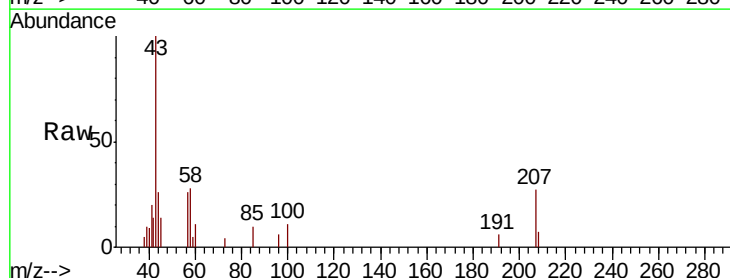
Acq: 29 Oct 2019 15:23

Tgt Ion: 43 Resp: 6232

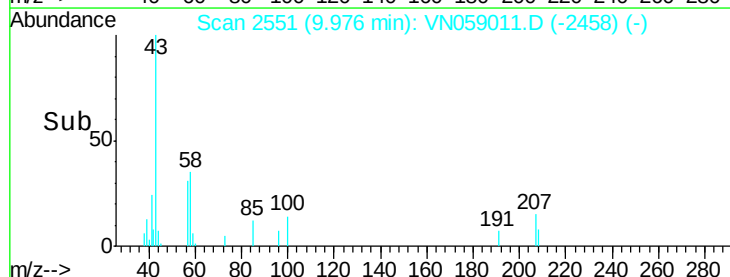
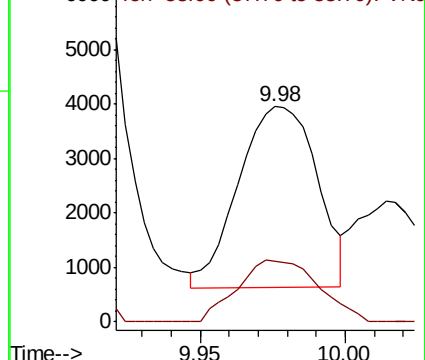
Ion Ratio Lower Upper

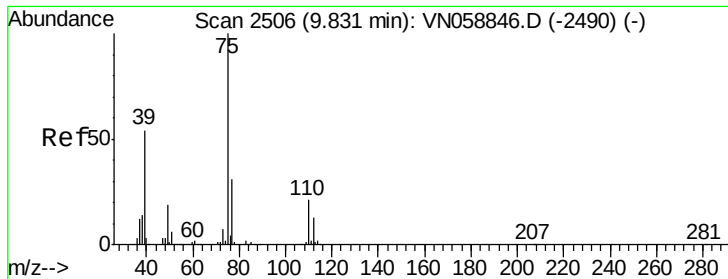
43 100

58 35.5 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN058846.D (-2533) (-)



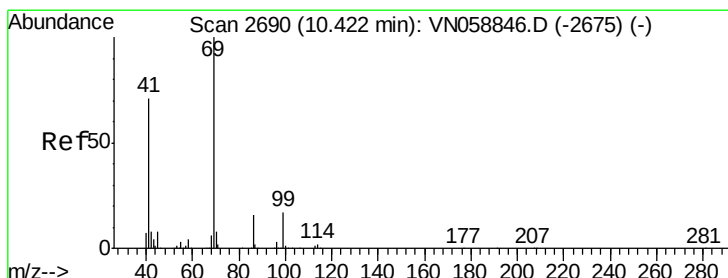
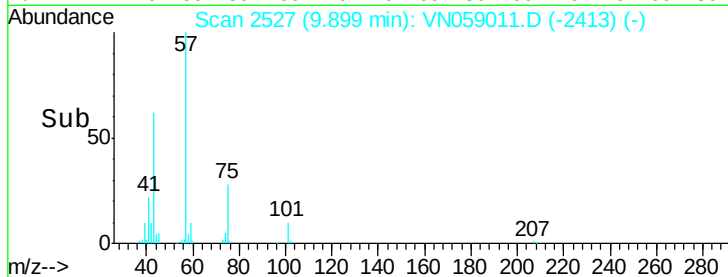
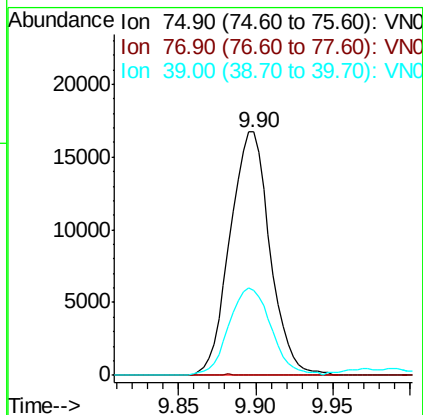
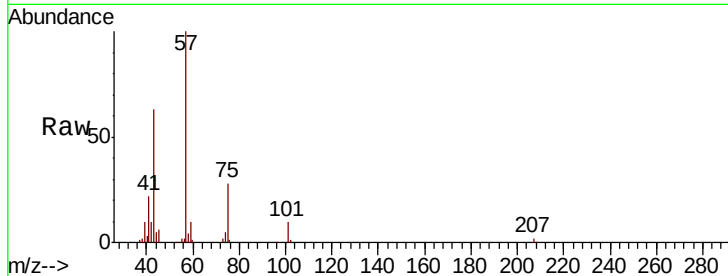


#54

cis-1,3-Dichloropropene
 Concen: 3.910 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.07 min
 Lab File: VN059011.D
 Acq: 29 Oct 2019 15:23

Instrument :
 MSVOA_N
 ClientSampleId :

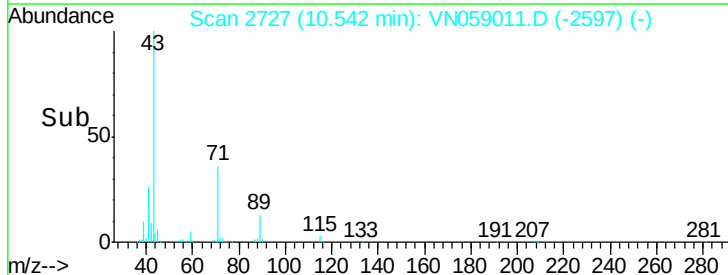
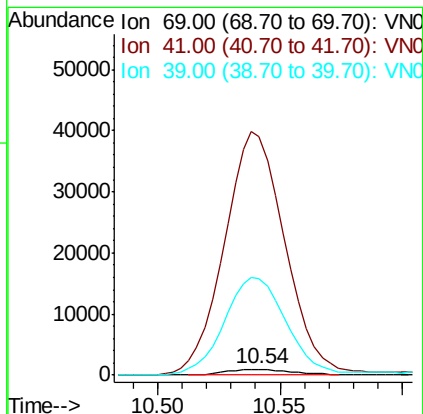
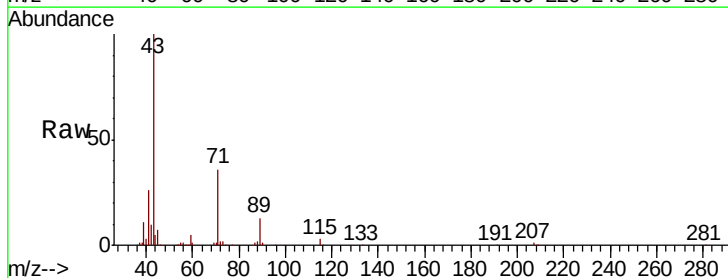
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.7	37.1#
39	35.0	43.5	65.3#

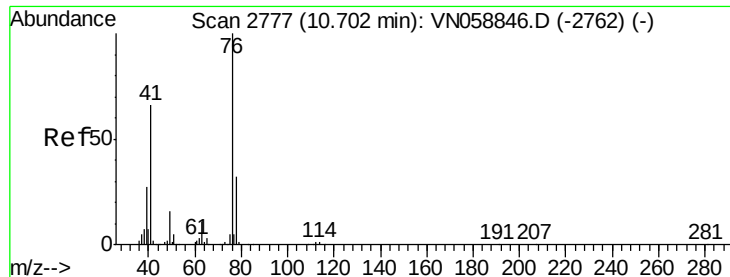


#56

Ethyl methacrylate
 Concen: 2.326 ug/l
 RT: 10.54 min Scan# 2727
 Delta R.T. 0.12 min
 Lab File: VN059011.D
 Acq: 29 Oct 2019 15:23

Tgt Ion	Ratio	Lower	Upper
69	100		
41	3898.3	57.2	85.8#
39	1602.6	31.0	46.4#

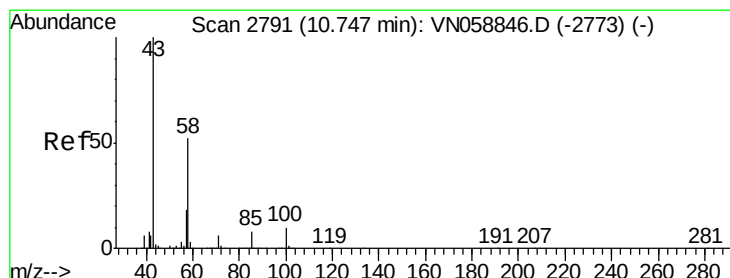
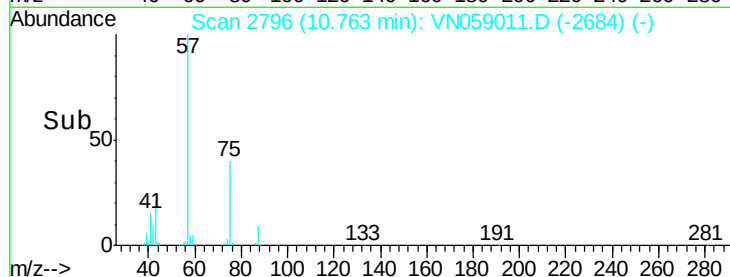
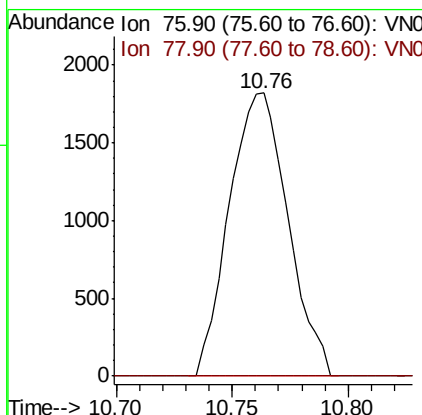
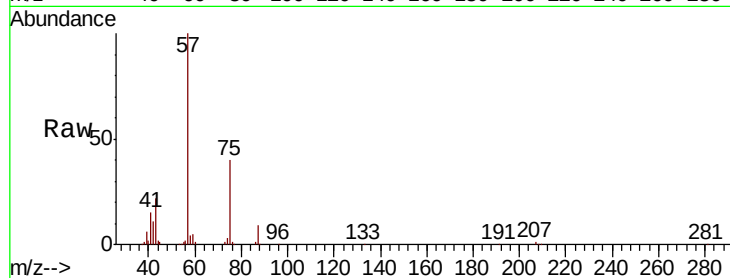




#57
 1,3-Dichloropropane
 Concen: 0.411 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN059011.D
 Acq: 29 Oct 2019 15:23

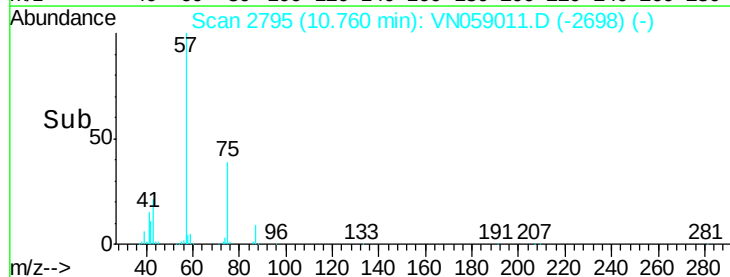
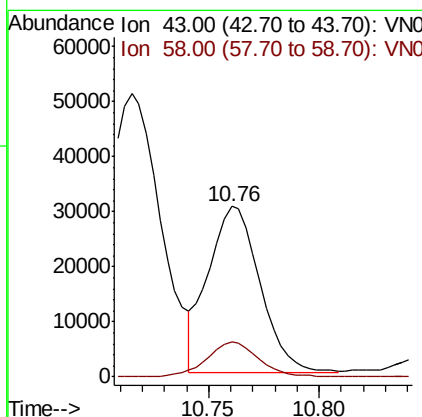
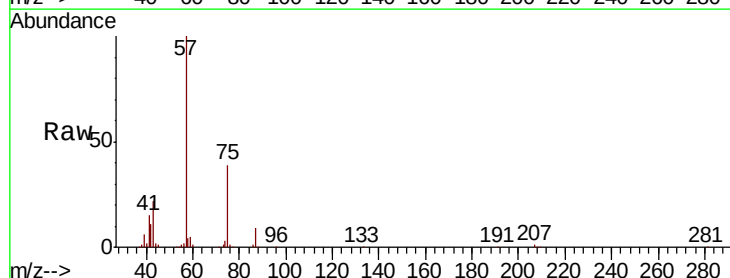
Instrument :
 MSVOA_N
 ClientSampleId :

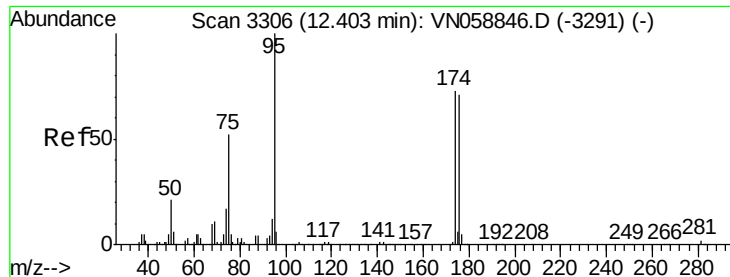
Tot Ion: 76 Resp: 3196
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#



#59
 2-Hexanone
 Concen: 10.045 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: VN059011.D
 Acq: 29 Oct 2019 15:23

Tgt Ion: 43 Resp: 48976
 Ion Ratio Lower Upper
 43 100
 58 21.2 25.9 77.7#

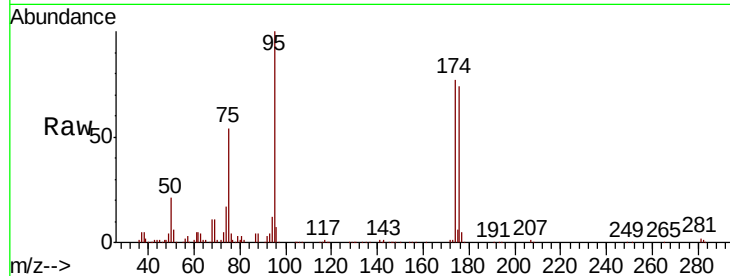




#62
4-Bromofluorobenzene
Concen: 43.038 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN059011.D
Acq: 29 Oct 2019 15:23

Instrument :
MSVOA_N
ClientSampleId :

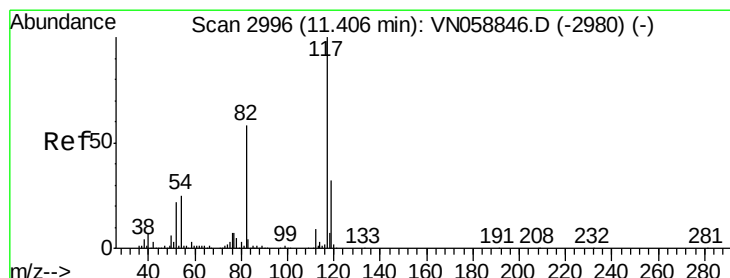
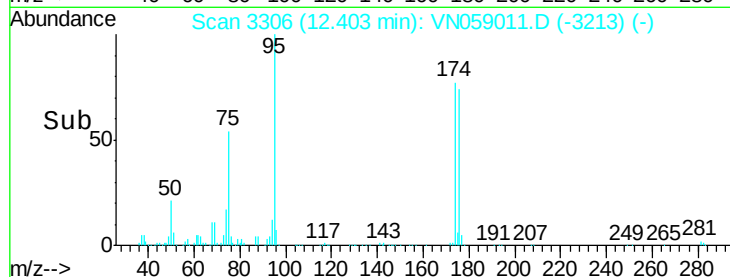
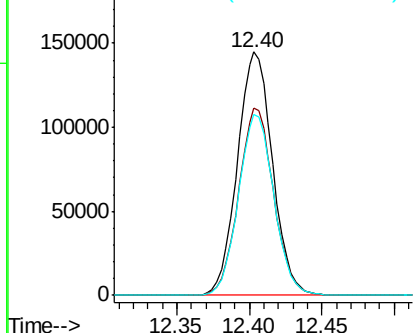
Tot Ion	95	Resp	243558
Ion Ratio	100		
174	76.9	0.0	147.6
176	75.0	0.0	143.2



Abundance Ion 94.90 (94.60 to 95.60): VN058846.D (-3291) (-)

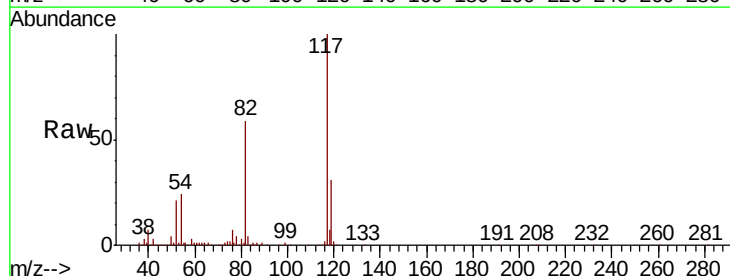
Ion 173.80 (173.50 to 174.50): VN058846.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058846.D (-3291) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN059011.D
Acq: 29 Oct 2019 15:23

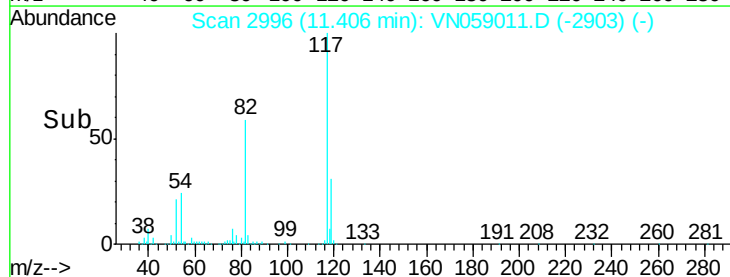
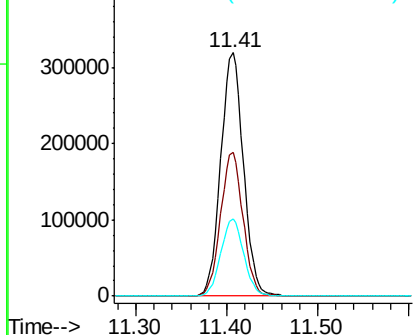
Tgt Ion	117	Resp	554673
Ion Ratio	100		
82	58.8	46.6	69.8
119	31.5	25.6	38.4

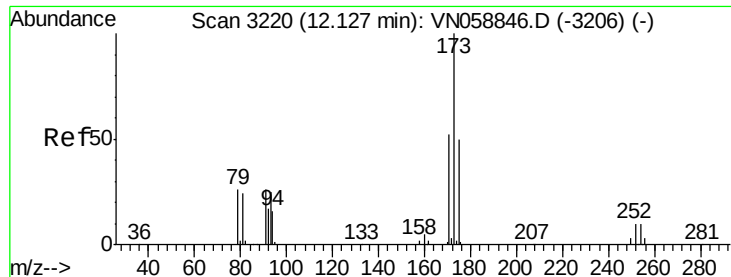


Abundance Ion 116.90 (116.60 to 117.60): VN058846.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058846.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058846.D (-2980) (-)





#71

Bromoform

Concen: 0.414 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN059011.D

Acq: 29 Oct 2019 15:23

Instrument :

MSVOA_N

ClientSampled :

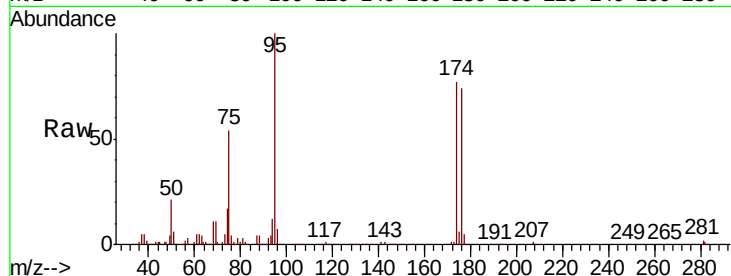
Tot Ion:173 Resp: 1367

Ion Ratio Lower Upper

173 100

175 771.5 24.7 74.1#

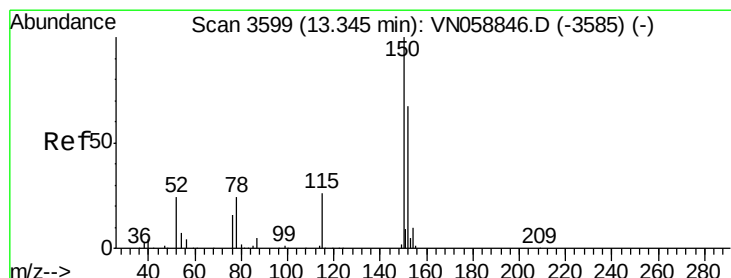
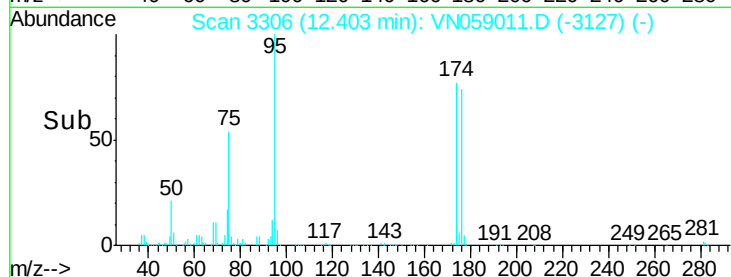
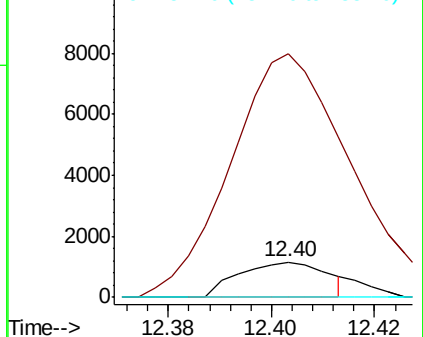
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN059011.D

Acq: 29 Oct 2019 15:23

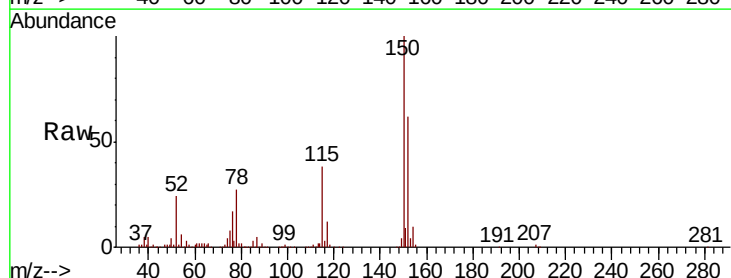
Tgt Ion:152 Resp: 197307

Ion Ratio Lower Upper

152 100

115 61.4 30.5 91.5

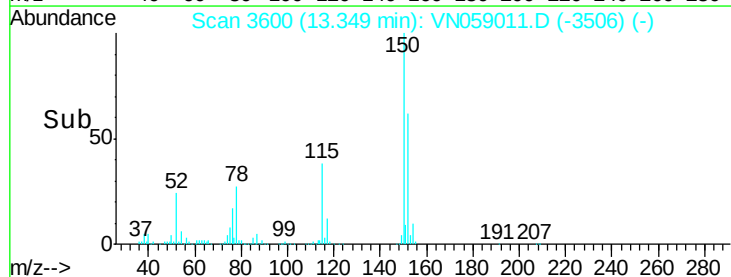
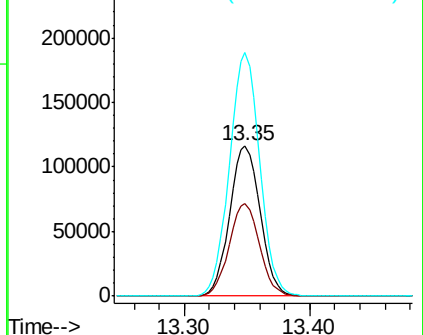
150 160.0 0.0 344.4

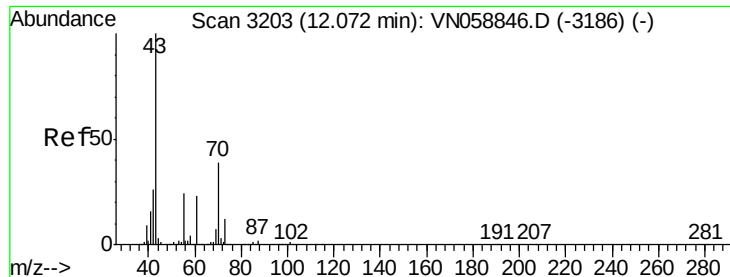


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.369 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN059011.D

Acq: 29 Oct 2019 15:23

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2410

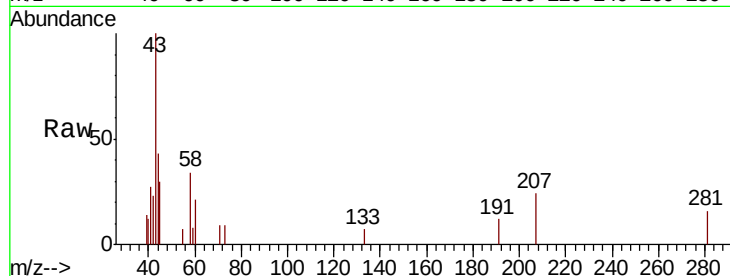
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 4.0 19.7 29.5#

61 0.0 18.2 27.4#

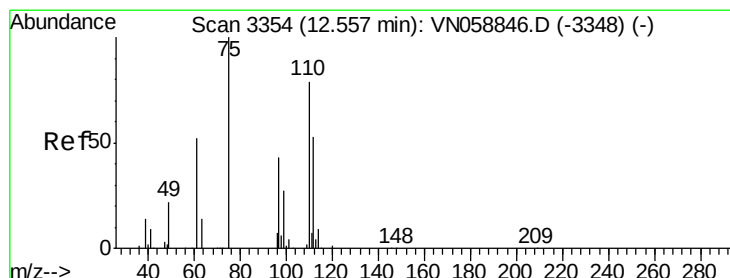
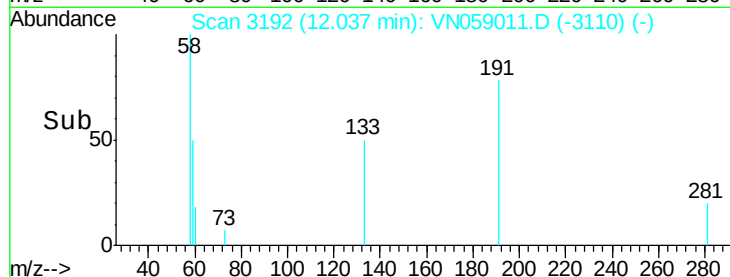
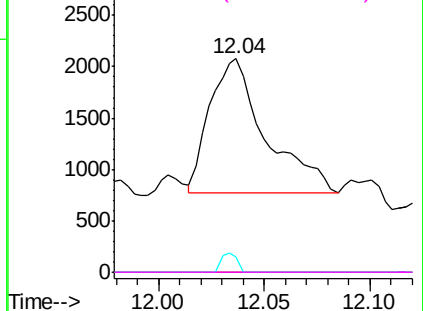


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 28.226 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059011.D

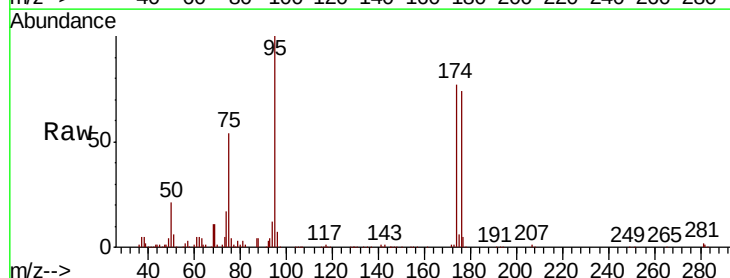
Acq: 29 Oct 2019 15:23

Tgt Ion: 75 Resp: 129073

Ion Ratio Lower Upper

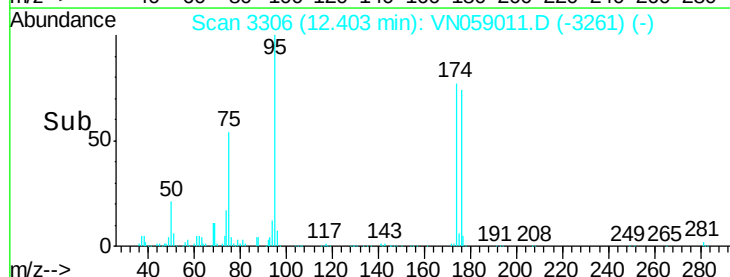
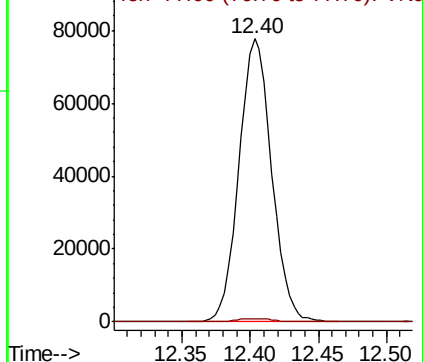
75 100

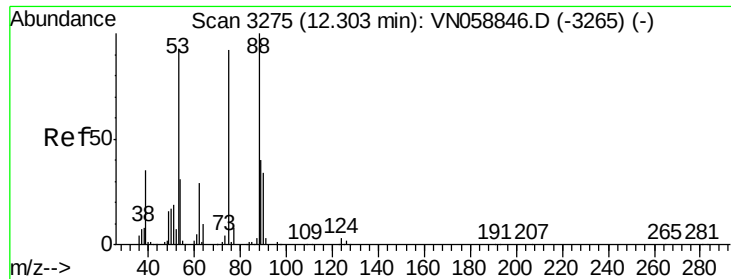
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

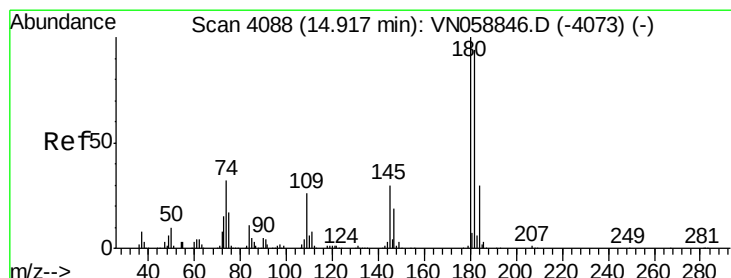
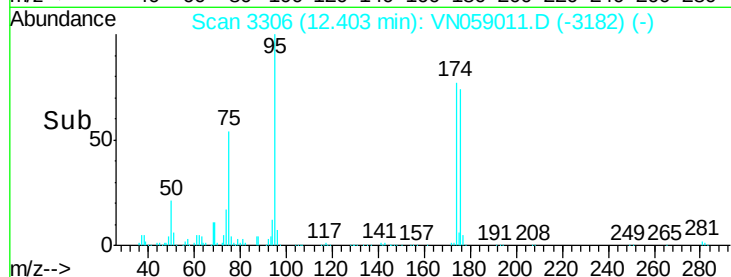
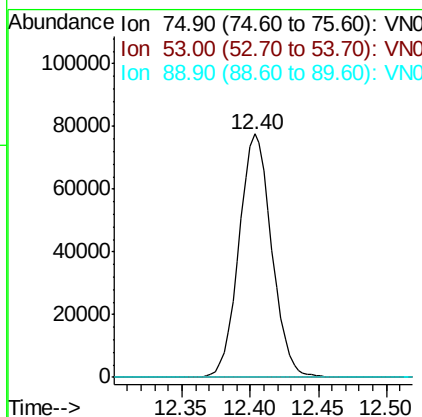
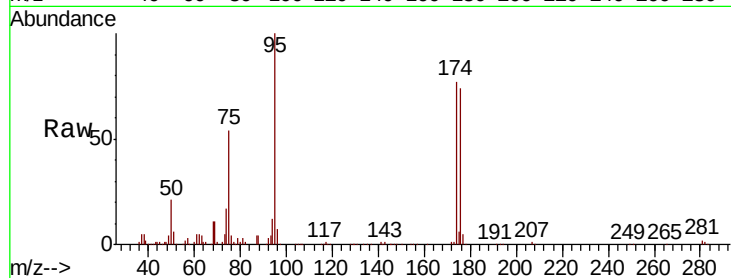




#81
trans-1,4-Dichloro-2-butene
Concen: 73.532 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN059011.D
Acq: 29 Oct 2019 15:23

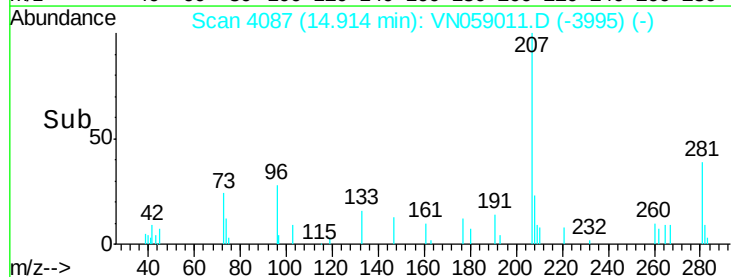
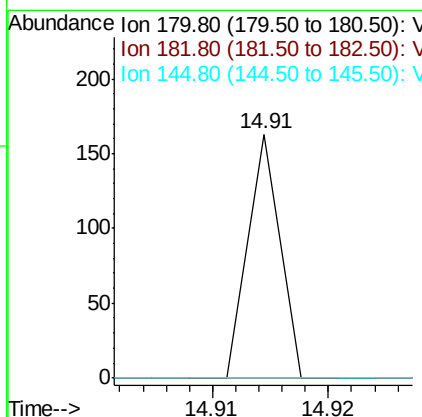
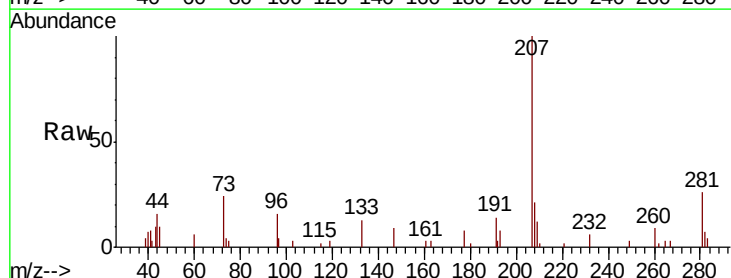
Instrument :
MSVOA_N
ClientSampled :

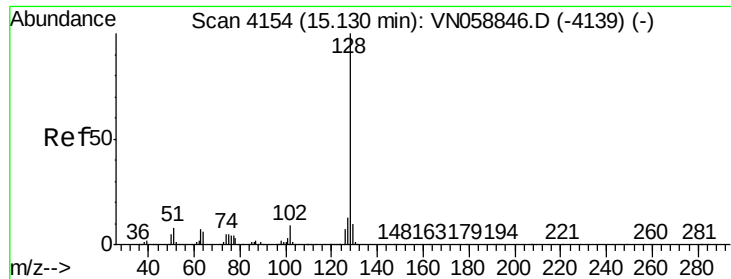
Tot Ion: 75 Resp: 129073
Ion Ratio Lower Upper
75 100
53 0.0 78.6 118.0#
89 0.0 35.4 53.0#



#93
1,2,4-Trichlorobenzene
Concen: 2.528 ug/l
RT: 14.91 min Scan# 4087
Delta R.T. -0.00 min
Lab File: VN059011.D
Acq: 29 Oct 2019 15:23

Tgt Ion:180 Resp: 31
Ion Ratio Lower Upper
180 100
182 0.0 47.3 142.0#
145 0.0 15.3 45.8#





#95

Naphthalene

Concen: 2.254 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059011.D

Acq: 29 Oct 2019 15:23

Instrument :

MSVOA_N

ClientSampled :

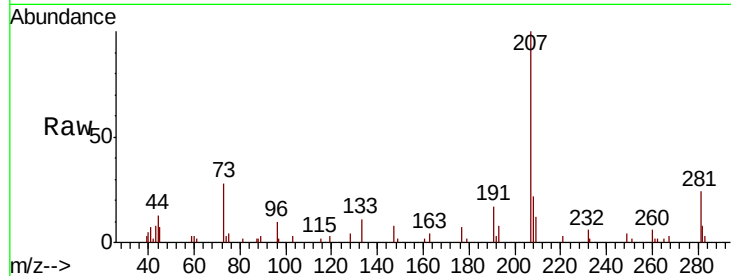
Tot Ion:128 Resp: 343

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

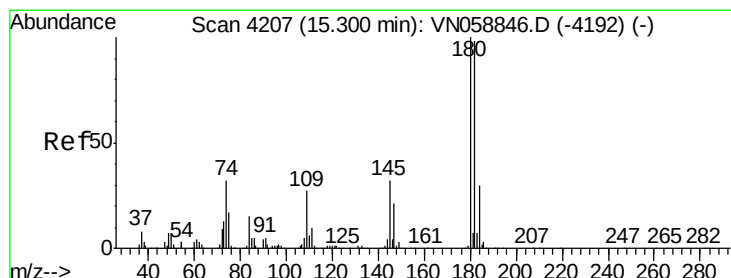
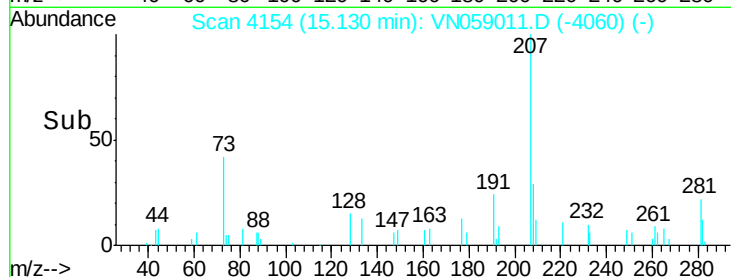
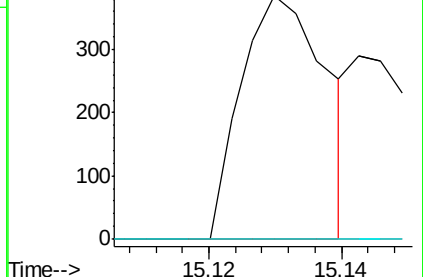
129 0.0 8.4 12.6#



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: 2.402 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN059011.D

Acq: 29 Oct 2019 15:23

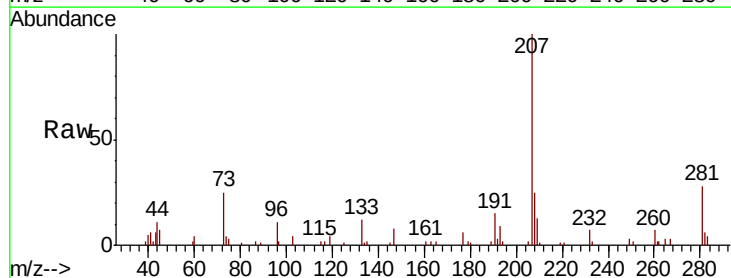
Tgt Ion:180 Resp: 30

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.7#

145 596.7 15.9 47.7#



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

