

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061820\
 Data File : VN061937.D
 Acq On : 19 Jun 2020 7:18
 Operator : JC/MD
 Sample : L3024-23
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-11

Quant Time: Jun 19 08:02:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

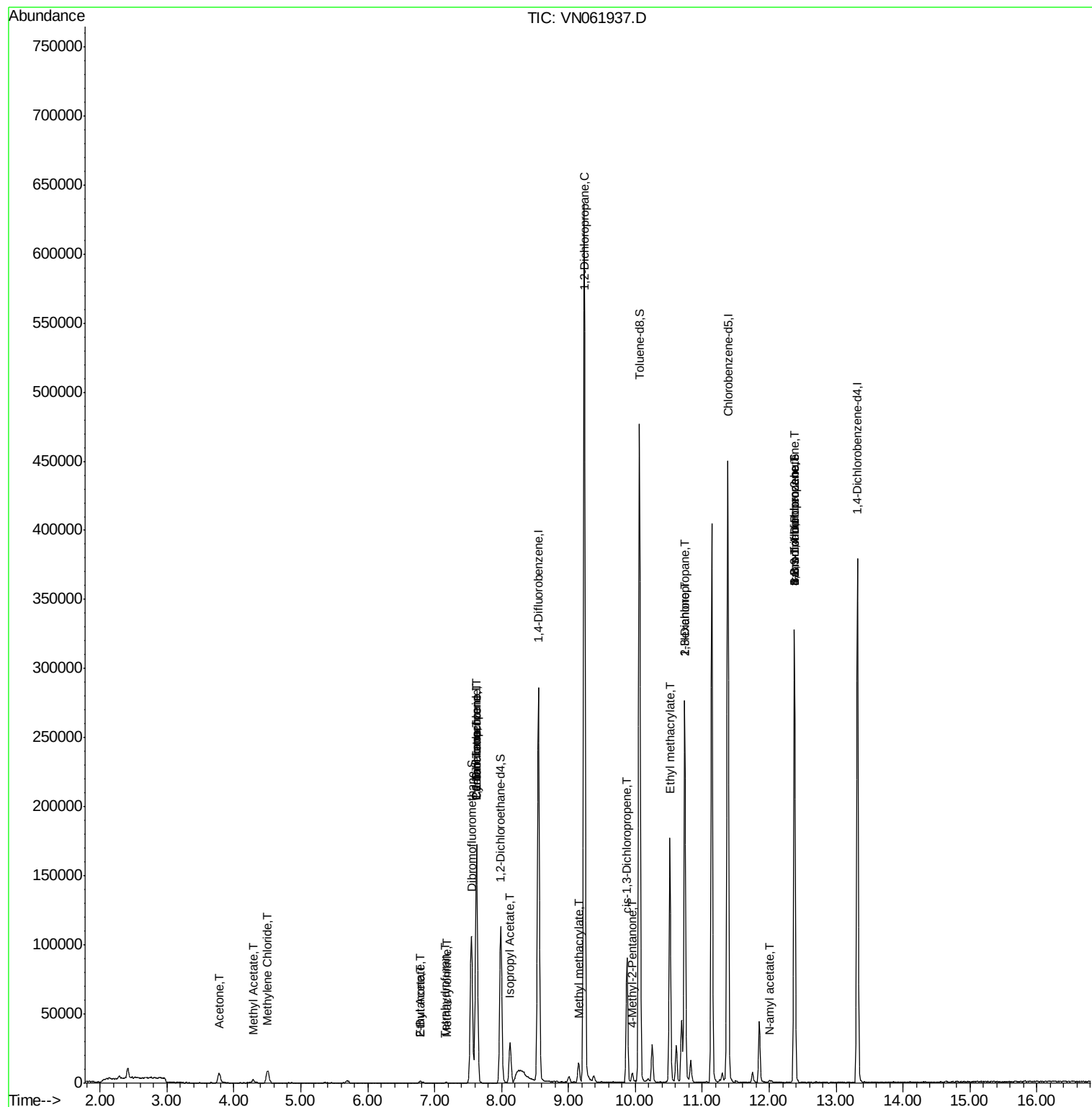
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	137835	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	266723	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	266593	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	104158	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	95601	51.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.44%	
35) Dibromofluoromethane	7.55	113	83261	48.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.58%	
50) Toluene-d8	10.06	98	336895	50.22	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.44%	
62) 4-Bromofluorobenzene	12.38	95	113175	49.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.36%	
Target Compounds						
					Qvalue	
16) Acetone	3.78	43	12345	22.608	ug/l	98
18) Methyl Acetate	4.28	43	3775	2.401	ug/l	92
20) Methylene Chloride	4.50	84	7928	4.457	ug/l	96
25) 2-Butanone	6.79	43	2177	2.733	ug/l #	44
29) Tetrahydrofuran	7.16	42	219	0.418	ug/l #	26
31) Cyclohexane	7.62	56	2894	1.188	ug/l #	10
36) 1,1-Dichloropropene	7.63	75	11106	4.565	ug/l #	45
37) Ethyl Acetate	6.79	43	2177	1.146	ug/l #	65
38) Carbon Tetrachloride	7.62	117	14036	5.826	ug/l #	16
41) Methacrylonitrile	7.18	41	181	0.223	ug/l #	100
43) Isopropyl Acetate	8.13	43	32064	10.015	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	622	0.343	ug/l #	43
48) Methyl methacrylate	9.15	41	1845	1.267	ug/l #	5
51) 4-Methyl-2-Pentanone	9.96	43	3723	1.968	ug/l #	78
54) cis-1,3-Dichloropropene	9.88	75	16940	5.626	ug/l #	68
56) Ethyl methacrylate	10.52	69	761	3.160	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3263	1.058	ug/l #	42
59) 2-Hexanone	10.74	43	35097	35.382	ug/l #	49
71) Bromoform	12.37	173	708	0.495	ug/l #	1
74) N-amyl acetate	12.00	43	1253	3.503	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	56325	27.544	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	56325	75.125	ug/l #	14

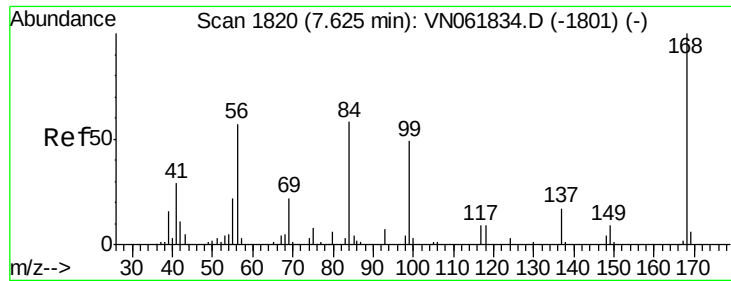
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061937.D

Acq: 19 Jun 2020 7:18

Instrument :

MSVOA_N

ClientSampleId :

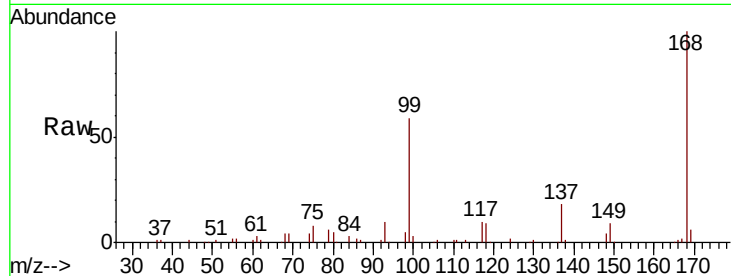
RO-11

Tot Ion:168 Resp: 137835

Ion Ratio Lower Upper

168 100

99 58.5 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): VN061834.D (-1801) (-)

Ion 98.90 (98.60 to 99.60): VN061834.D (-1801) (-)

7.63

60000

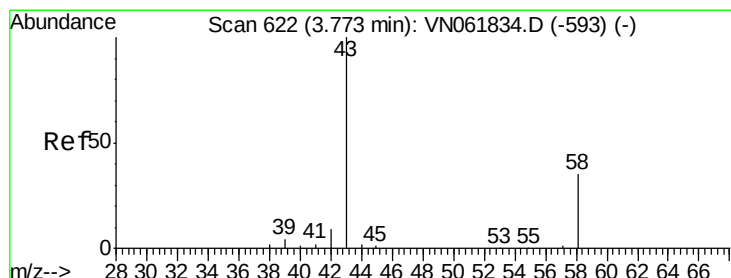
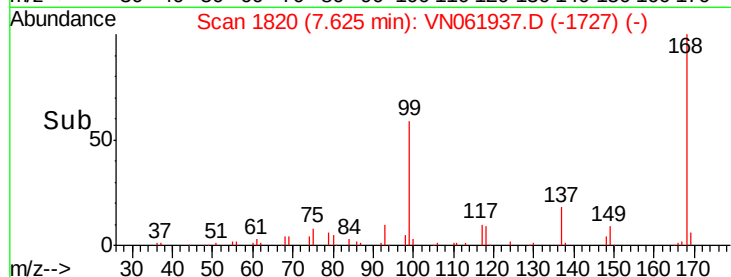
40000

20000

0

7.50 7.60 7.70

Time-->



#16

Acetone

Concen: 22.608 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061937.D

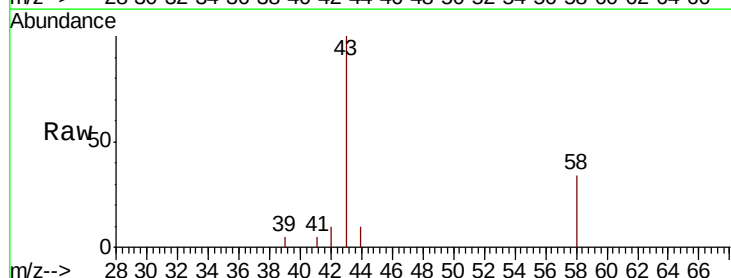
Acq: 19 Jun 2020 7:18

Tgt Ion: 43 Resp: 12345

Ion Ratio Lower Upper

43 100

58 33.5 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-593) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-593) (-)

3.78

5000

4000

3000

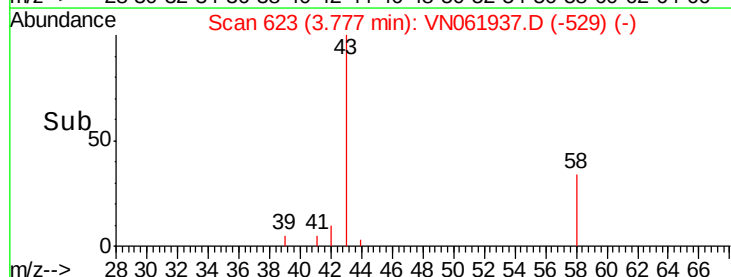
2000

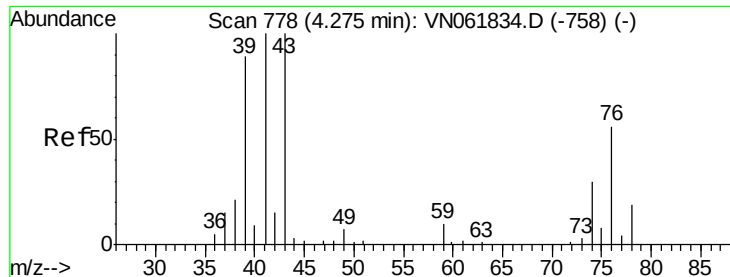
1000

0

3.70 3.75 3.80 3.85

Time-->

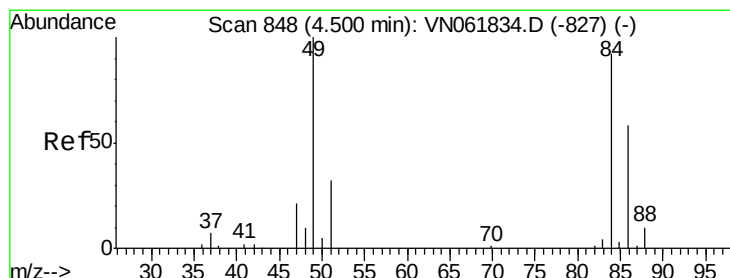
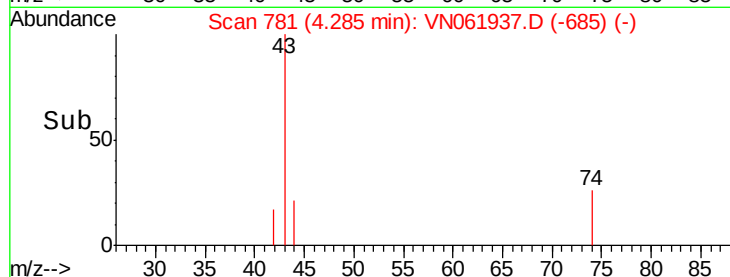
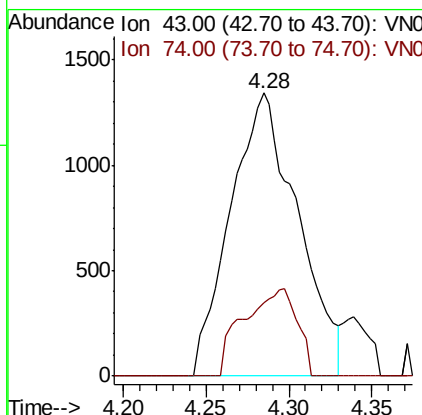
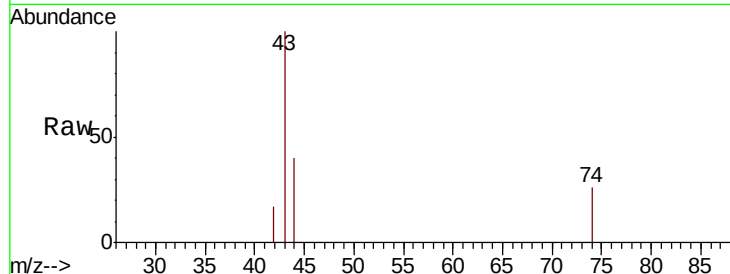




#18
Methvl Acetate
Concen: 2.401 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

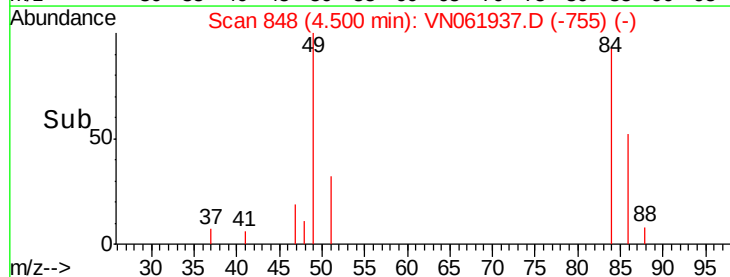
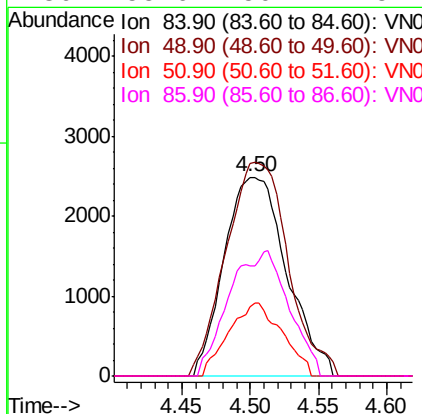
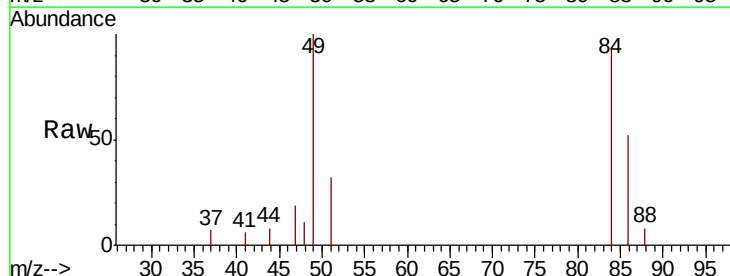
Instrument :
MSVOA_N
ClientSampled :
RO-11

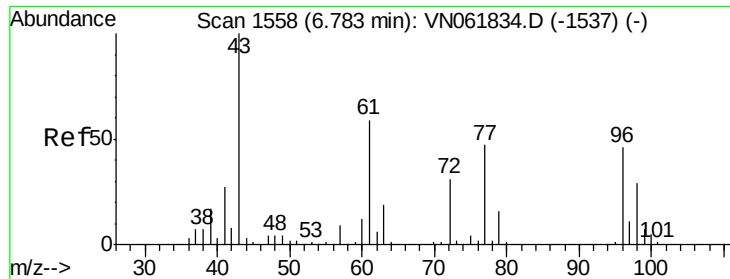
Tot Ion: 43 Resp: 3775
Ion Ratio Lower Upper
43 100
74 24.5 23.0 34.4



#20
Methylene Chloride
Concen: 4.457 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

Tgt Ion: 84 Resp: 7928
Ion Ratio Lower Upper
84 100
49 107.1 87.0 130.4
51 34.6 27.8 41.6
86 55.6 50.2 75.2

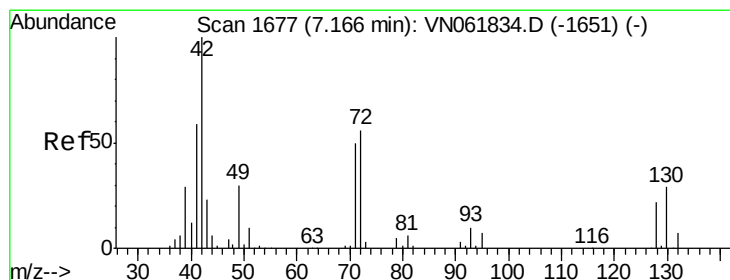
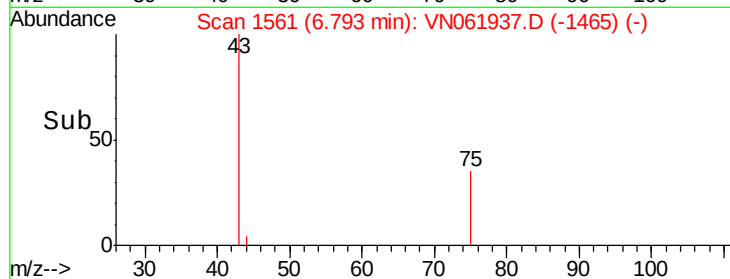
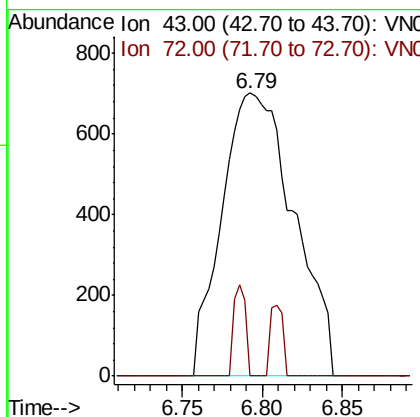
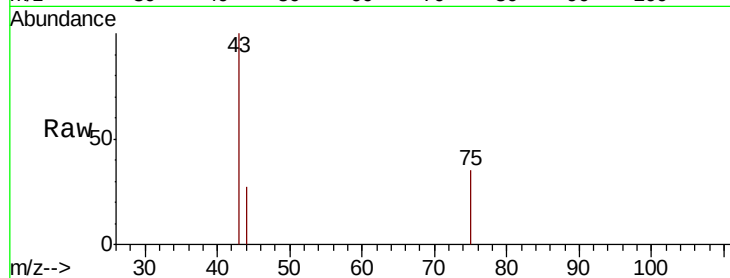




#25
2-Butanone
Concen: 2.733 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

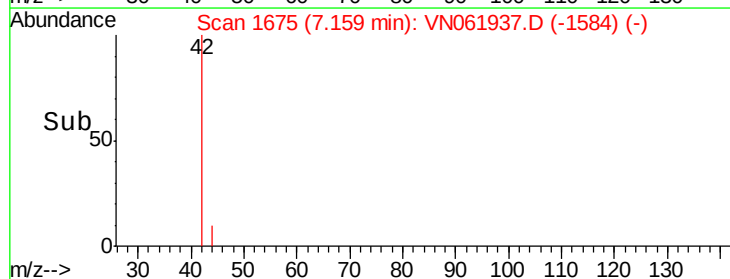
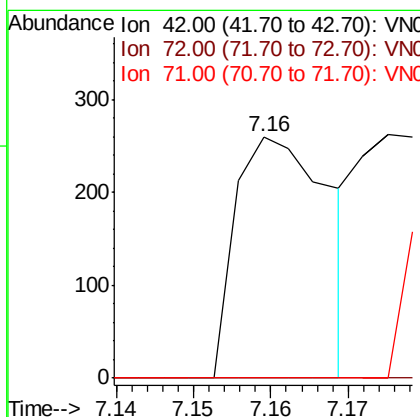
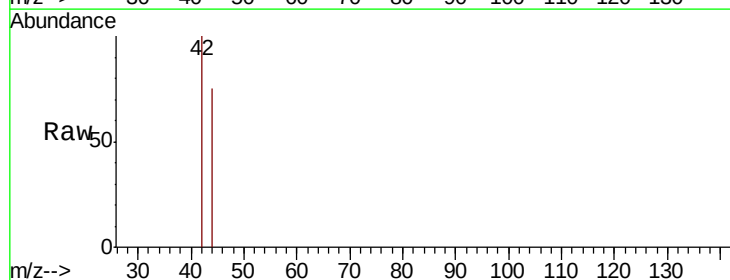
Instrument :
MSVOA_N
ClientSampled :
RO-11

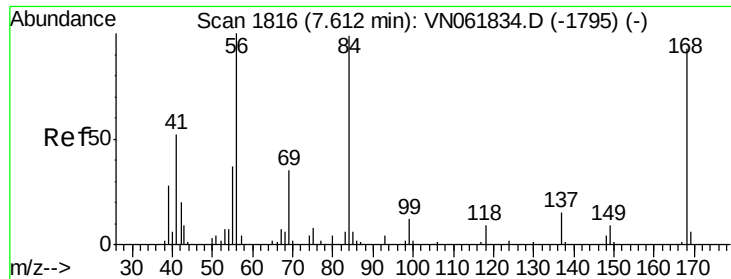
Tot Ion: 43 Resp: 2177
Ion Ratio Lower Upper
43 100
72 0.0 24.6 37.0#



#29
Tetrahydrofuran
Concen: 0.418 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. -0.01 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

Tgt Ion: 42 Resp: 219
Ion Ratio Lower Upper
42 100
72 0.0 44.0 66.0#
71 0.0 40.0 60.0#

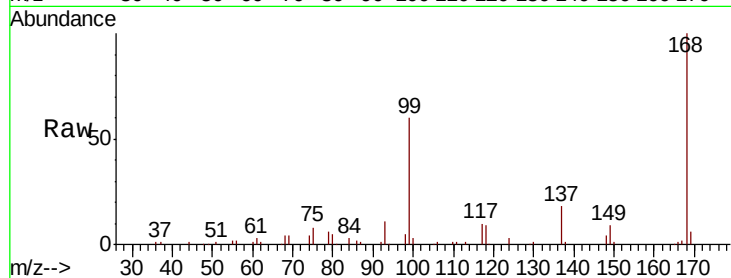




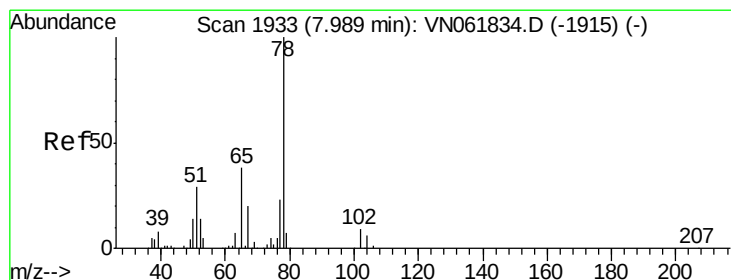
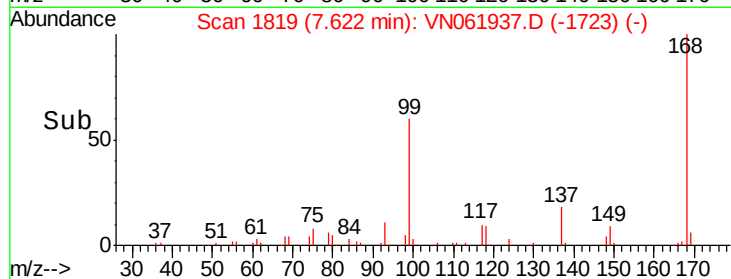
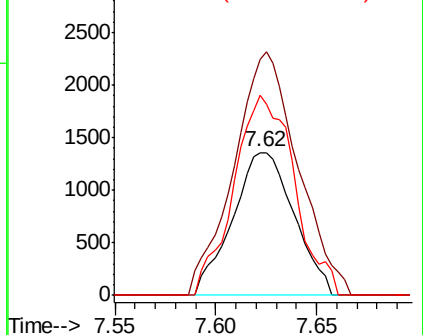
#31
Cyclohexane
Concen: 1.188 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

Instrument :
MSVOA_N
ClientSampleId :
RO-11

Tot Ion: 56 Resp: 2894
Ion Ratio Lower Upper
56 100
69 165.6 27.7 41.5#
84 140.2 79.1 118.7#

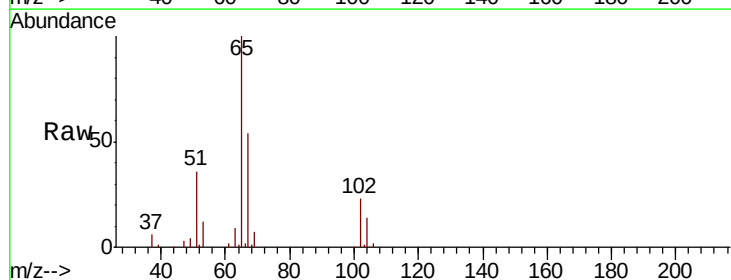


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

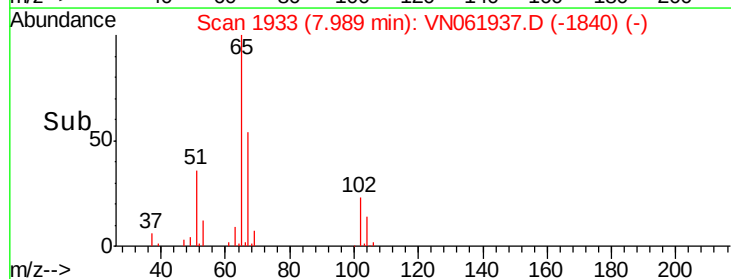
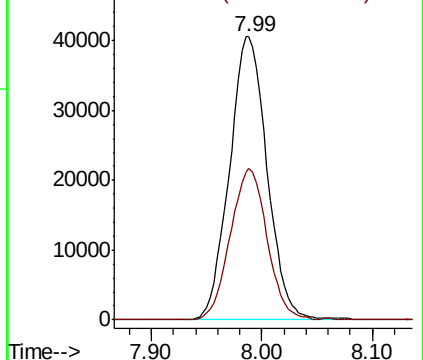


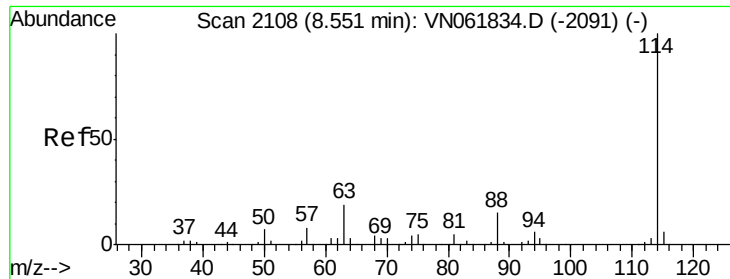
#33
1,2-Dichloroethane-d4
Concen: 51.716 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

Tgt Ion: 65 Resp: 95601
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.2



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

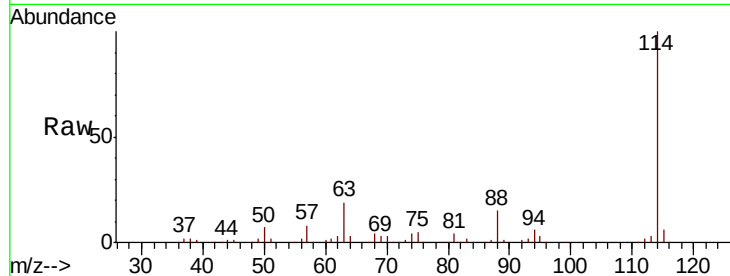




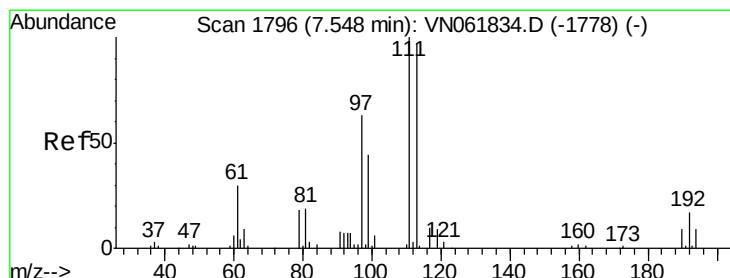
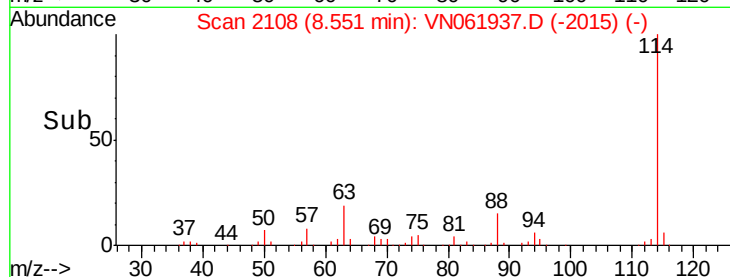
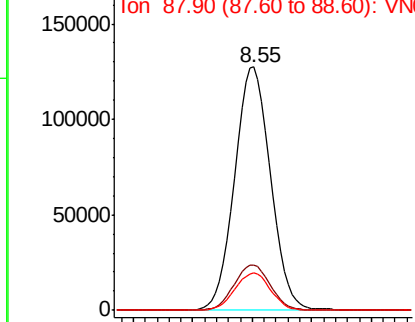
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

Instrument :
MSVOA_N
ClientSampleId :
RO-11

Tot Ion:114 Resp: 266723
Ion Ratio Lower Upper
114 100
63 18.8 0.0 37.6
88 15.2 0.0 31.0

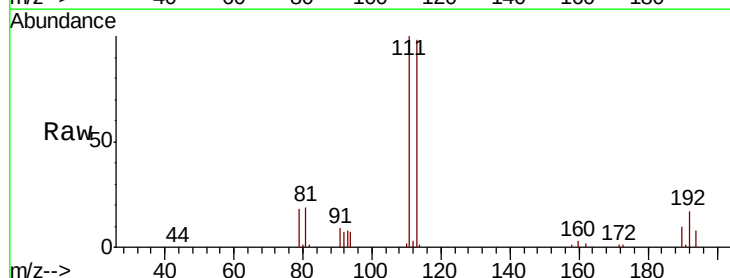


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

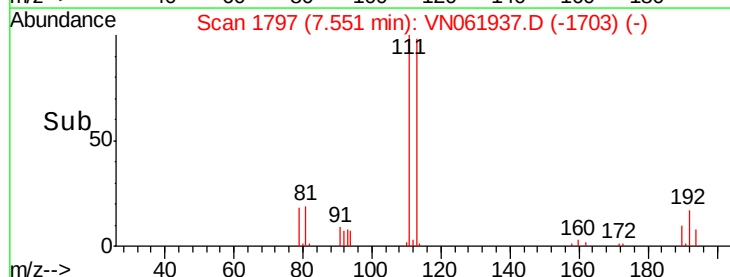
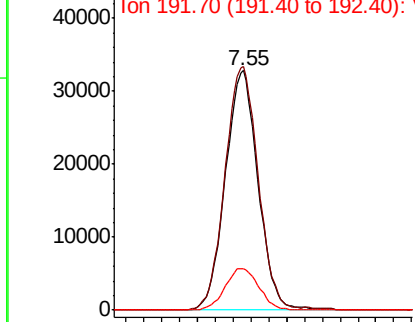


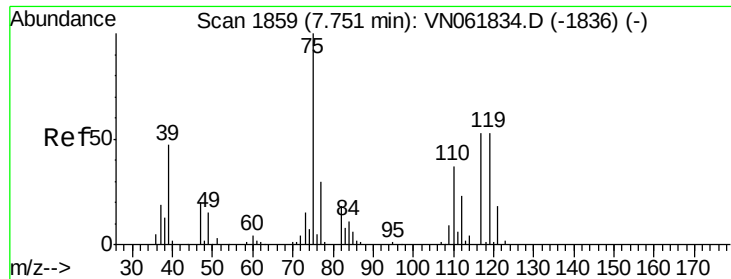
#35
Dibromofluoromethane
Concen: 48.795 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

Tgt Ion:113 Resp: 83261
Ion Ratio Lower Upper
113 100
111 103.1 83.7 125.5
192 17.8 13.9 20.9



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: 4.565 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061937.D

Acq: 19 Jun 2020 7:18

Instrument :

MSVOA_N

ClientSampleId :

RO-11

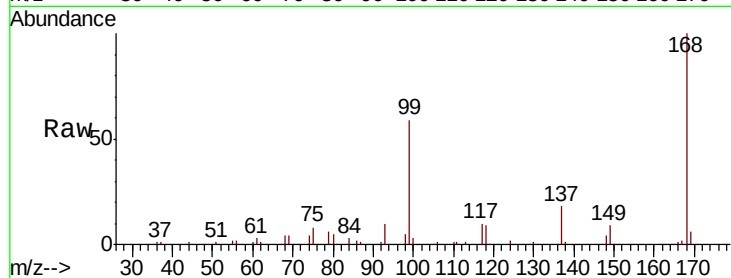
Tot Ion: 75 Resp: 11106

Ion Ratio Lower Upper

75 100

110 4.7 18.2 54.6#

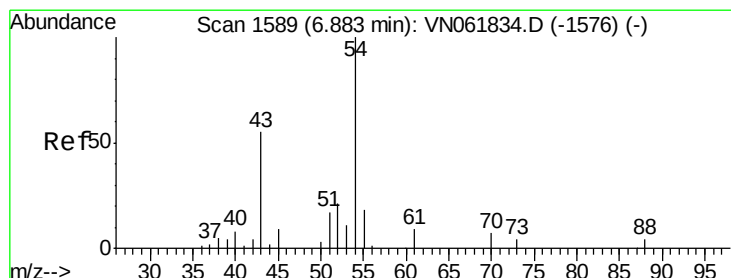
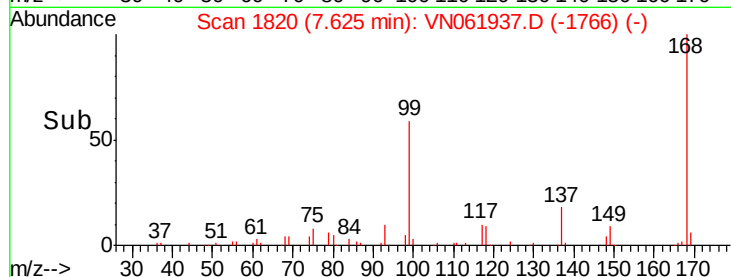
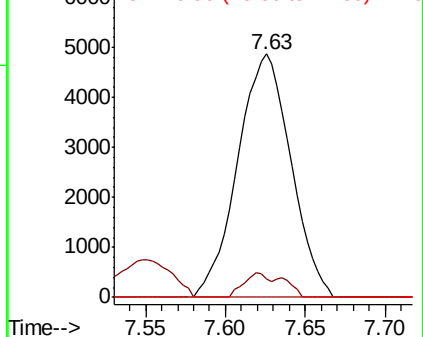
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 1.146 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.09 min

Lab File: VN061937.D

Acq: 19 Jun 2020 7:18

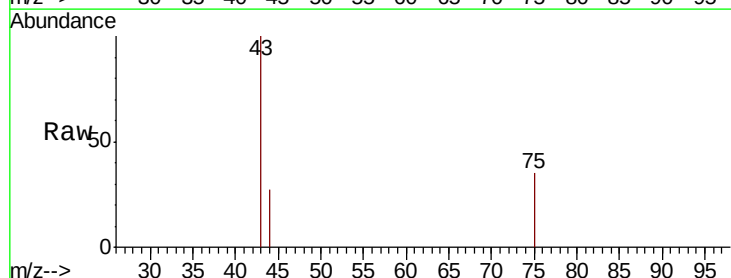
Tgt Ion: 43 Resp: 2177

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

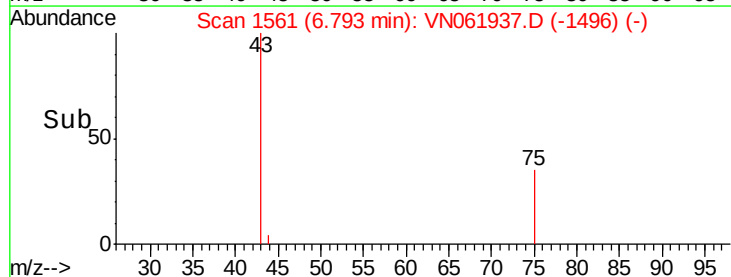
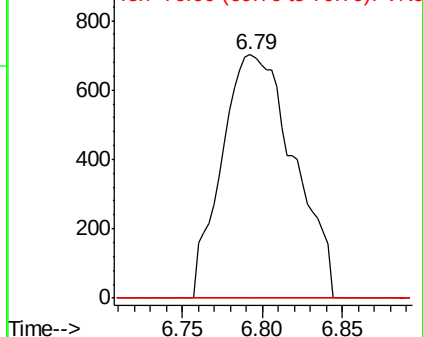
70 0.0 9.4 14.2#

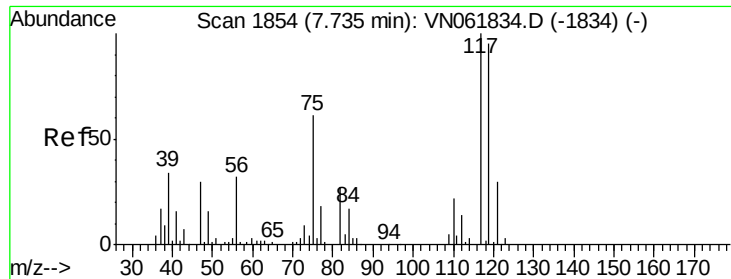


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.826 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN061937.D

Acq: 19 Jun 2020 7:18

Instrument :

MSVOA_N

ClientSampleId :

RO-11

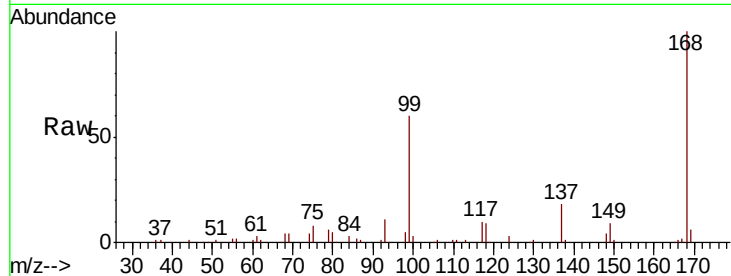
Tot Ion:117 Resp: 14036

Ion Ratio Lower Upper

117 100

119 4.1 75.8 113.6#

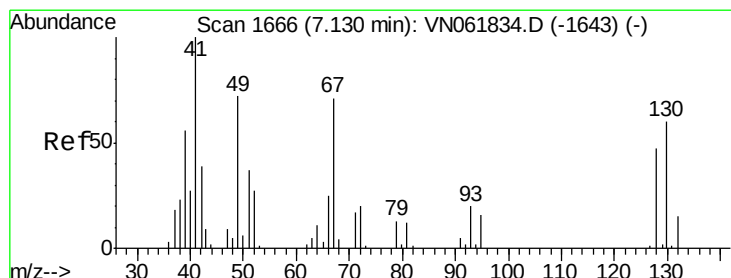
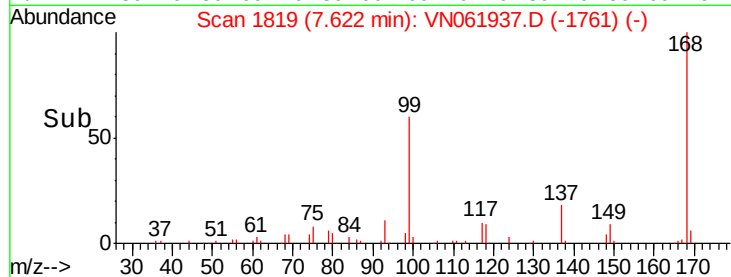
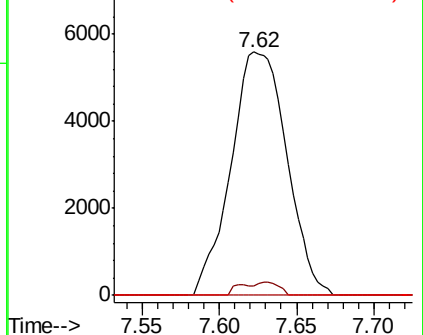
121 0.0 23.8 35.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.223 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.04 min

Lab File: VN061937.D

Acq: 19 Jun 2020 7:18

Tgt Ion: 41 Resp: 181

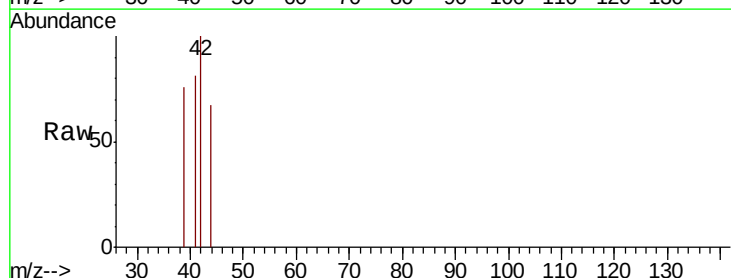
Ion Ratio Lower Upper

41 100

39 121.5 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

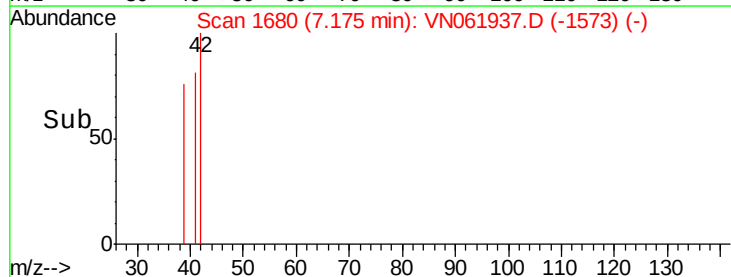
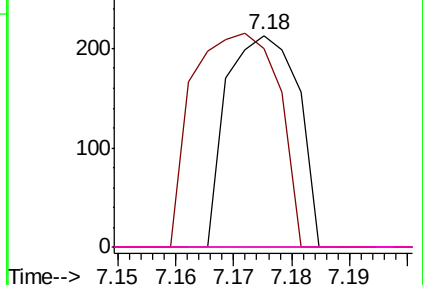


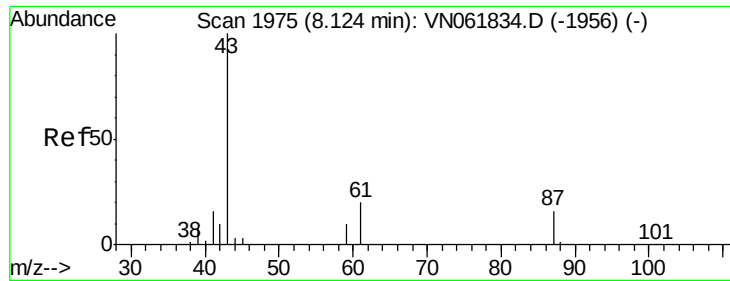
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 10.015 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061937.D

Acq: 19 Jun 2020 7:18

Instrument :

MSVOA_N

ClientSampleId :

RO-11

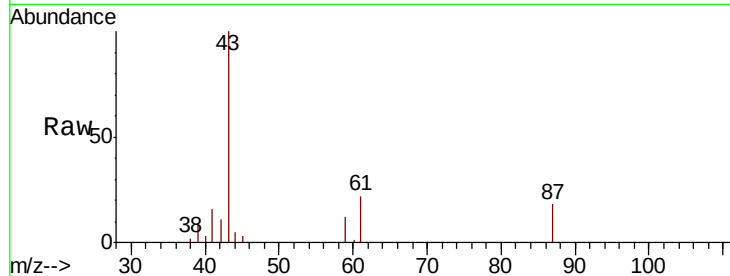
Tot Ion: 43 Resp: 32064

Ion Ratio Lower Upper

43 100

61 21.7 24.0 36.0#

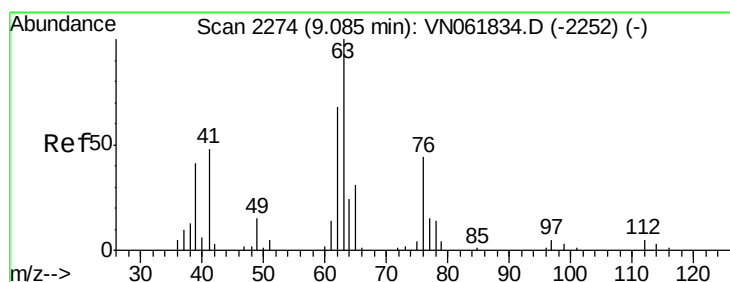
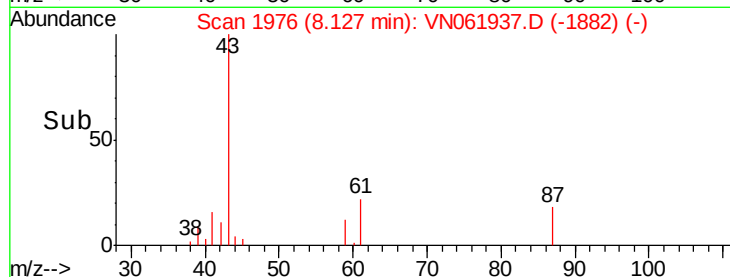
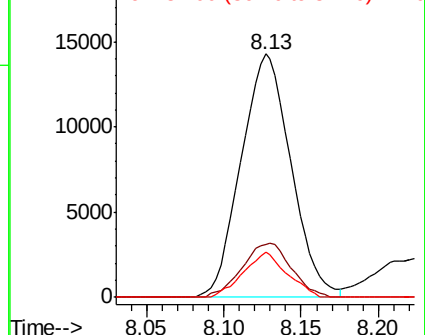
87 16.1 12.5 18.7



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: 0.343 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN061937.D

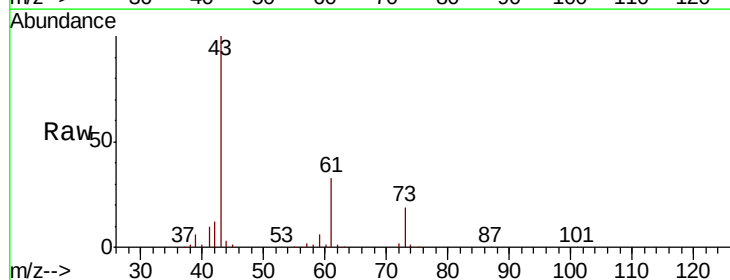
Acq: 19 Jun 2020 7:18

Tgt Ion: 63 Resp: 622

Ion Ratio Lower Upper

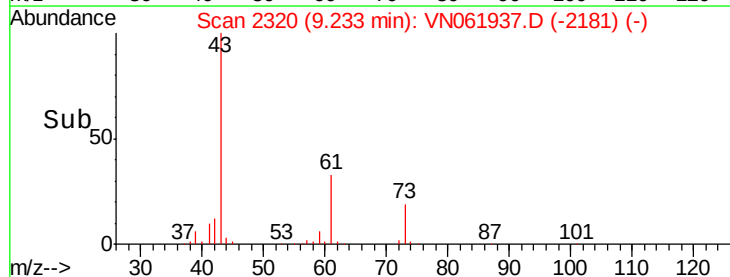
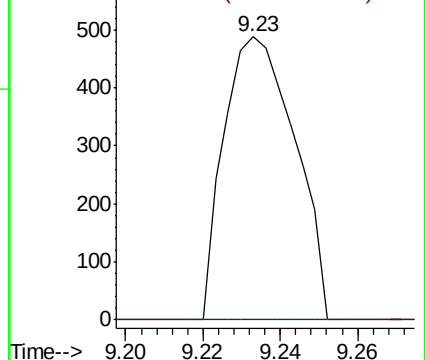
63 100

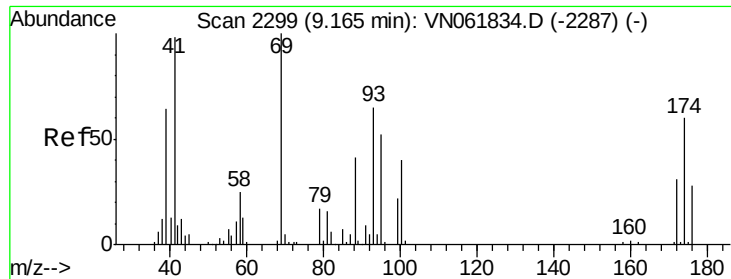
65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

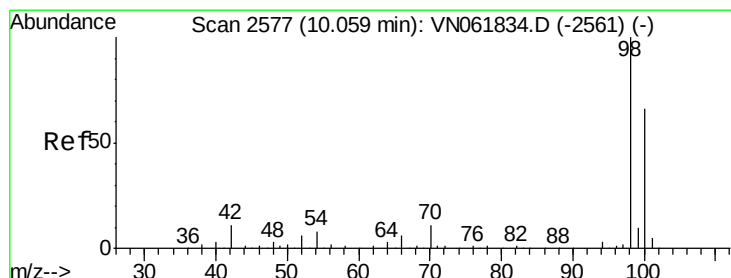
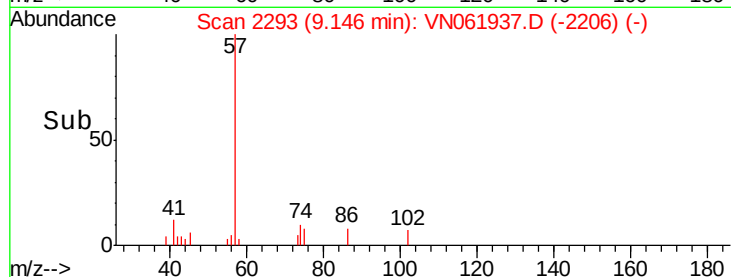
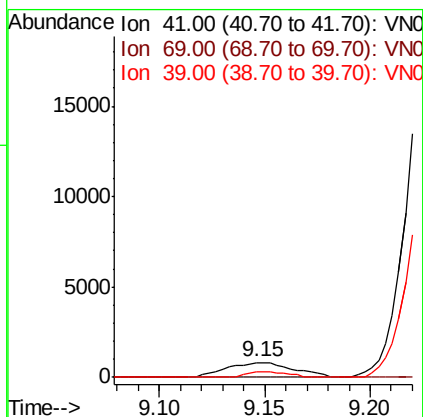
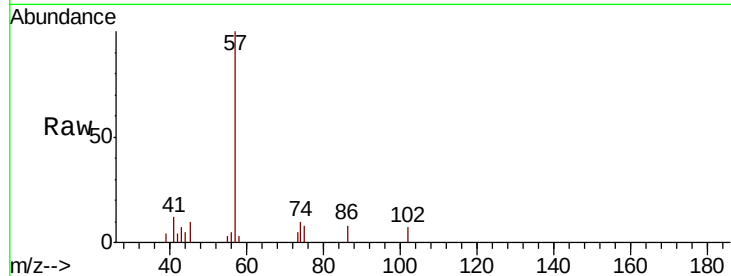




#48
Methvl methacrylate
Concen: 1.267 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

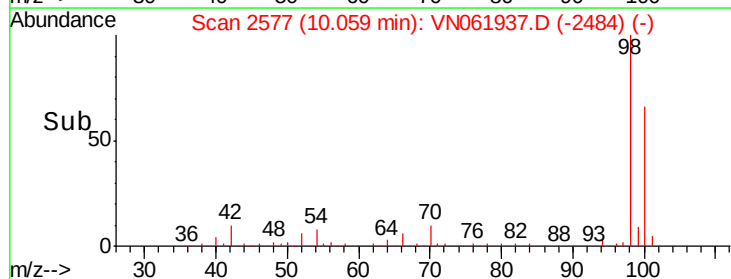
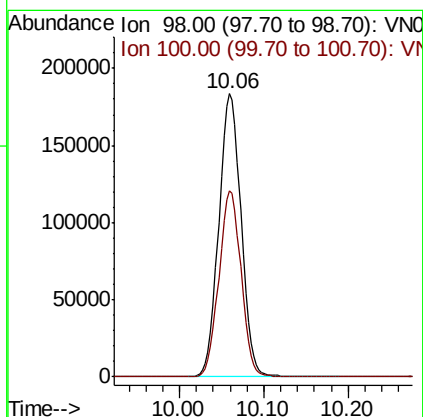
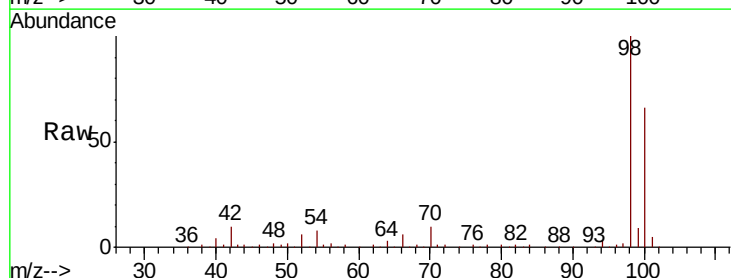
Instrument :
MSVOA_N
ClientSampled :
RO-11

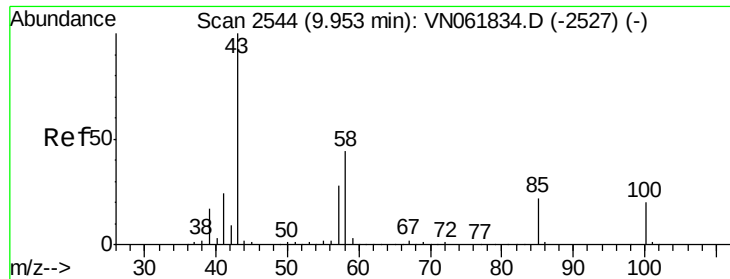
Tot Ion: 41 Resp: 1845
Ion Ratio Lower Upper
41 100
69 0.0 83.0 124.4#
39 0.0 55.1 82.7#



#50
Toluene-d8
Concen: 50.220 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

Tgt Ion: 98 Resp: 336895
Ion Ratio Lower Upper
98 100
100 65.3 52.7 79.1

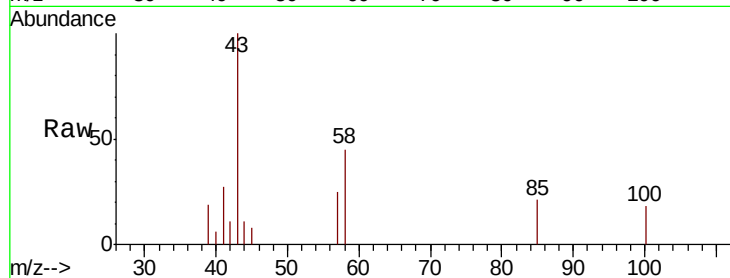




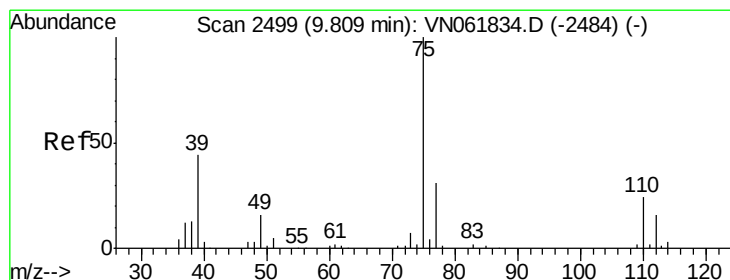
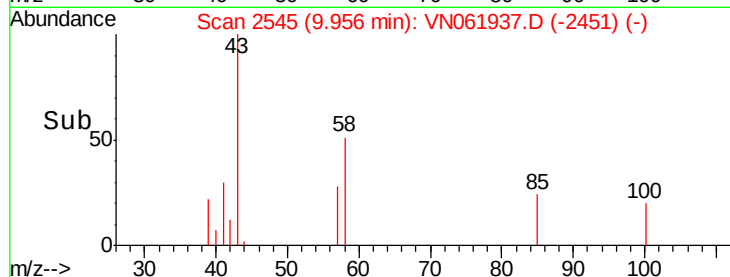
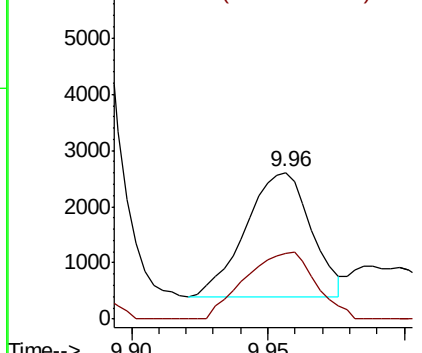
#51
4-Methyl-2-Pentanone
Concen: 1.968 ug/l
RT: 9.96 min Scan# 2545
Delta R.T. 0.00 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

Instrument :
MSVOA_N
ClientSampled :
RO-11

Tot Ion: 43 Resp: 3723
Ion Ratio Lower Upper
43 100
58 57.7 34.6 52.0#

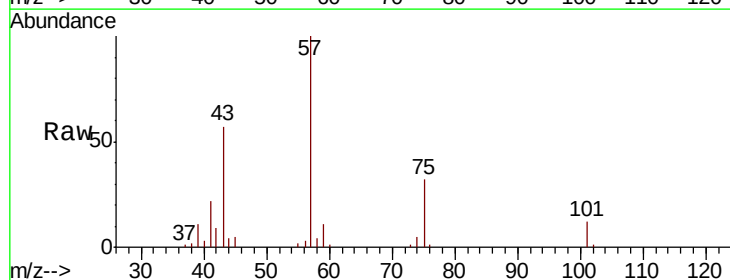


Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)
Ion 58.00 (57.70 to 58.70): VN061834.D (-2527) (-)

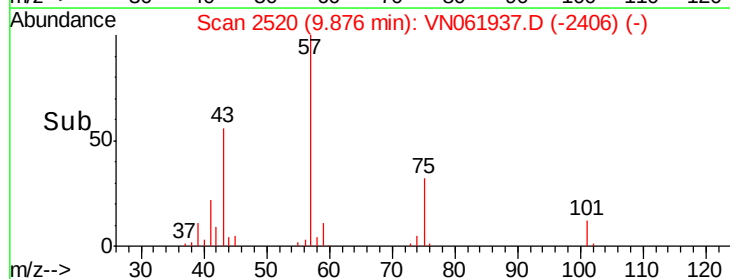
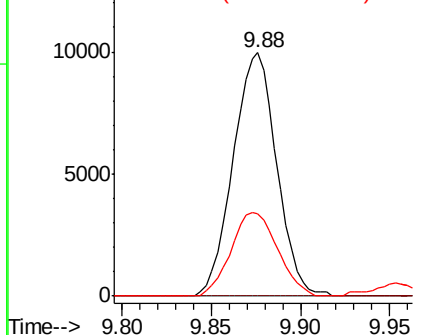


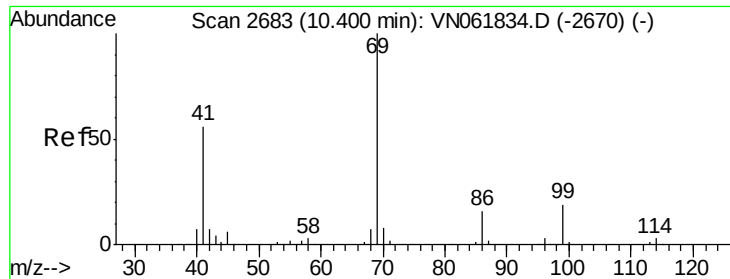
#54
cis-1,3-Dichloropropene
Concen: 5.626 ug/l
RT: 9.88 min Scan# 2520
Delta R.T. 0.07 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

Tgt Ion: 75 Resp: 16940
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 34.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-2484) (-)
Ion 76.90 (76.60 to 77.60): VN061834.D (-2484) (-)
Ion 39.00 (38.70 to 39.70): VN061834.D (-2484) (-)





#56

Ethyl methacrylate

Concen: 3.160 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN061937.D

Acq: 19 Jun 2020 7:18

Instrument :

MSVOA_N

ClientSampled :

RO-11

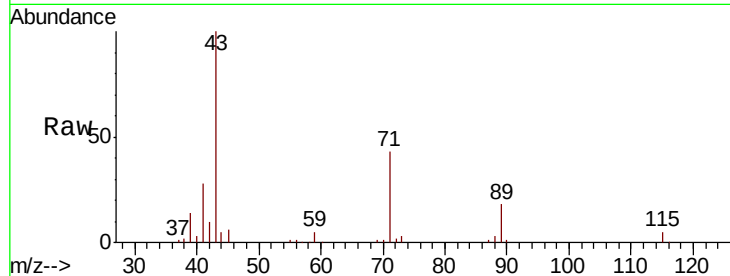
Tot Ion: 69 Resp: 761

Ion Ratio Lower Upper

69 100

41 4451.4 44.9 67.3#

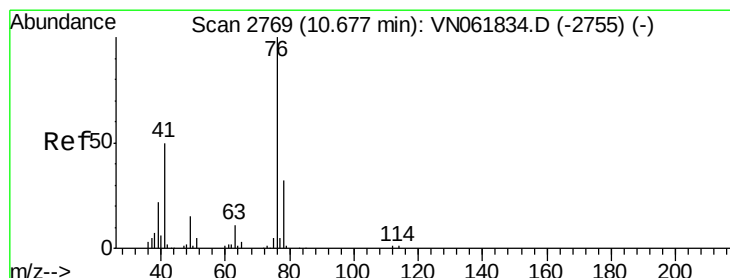
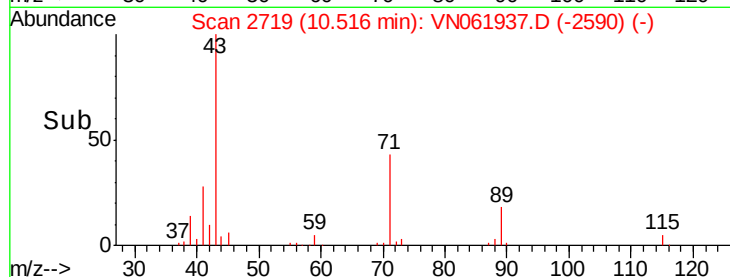
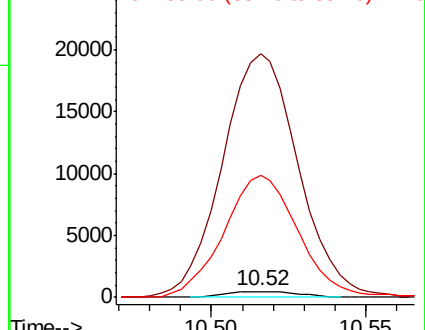
39 2185.4 30.0 45.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.058 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061937.D

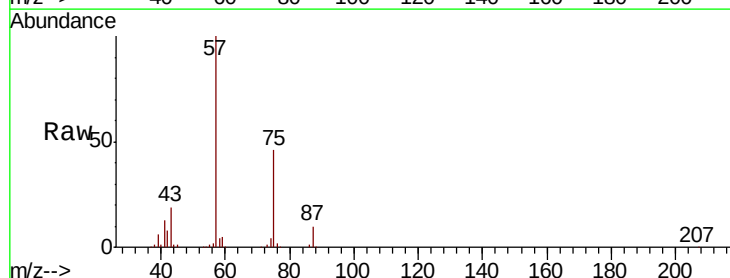
Acq: 19 Jun 2020 7:18

Tgt Ion: 76 Resp: 3263

Ion Ratio Lower Upper

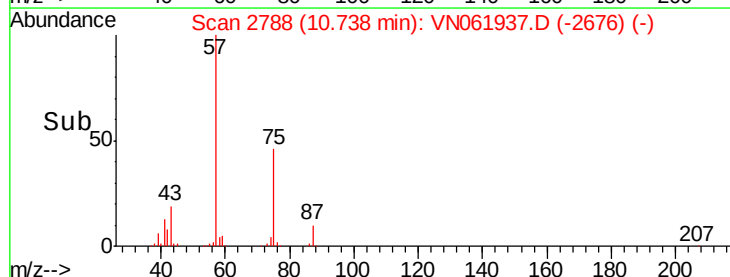
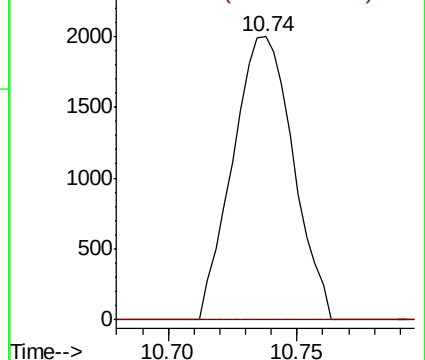
76 100

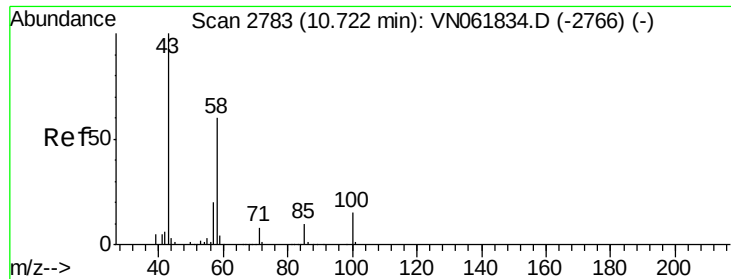
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

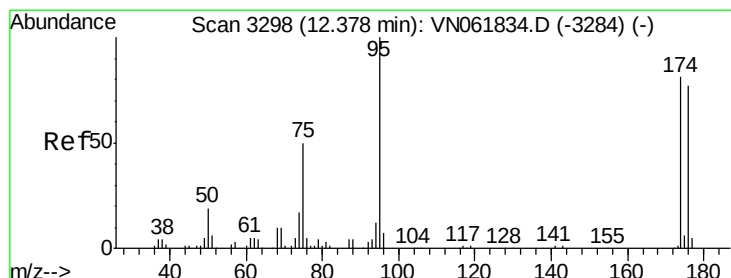
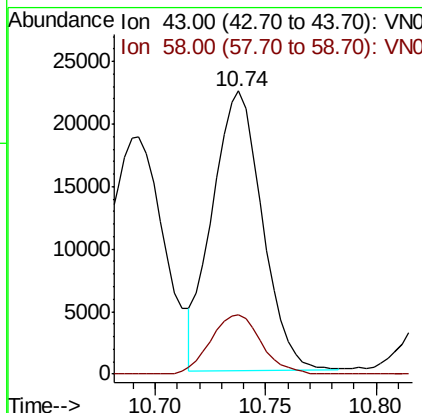
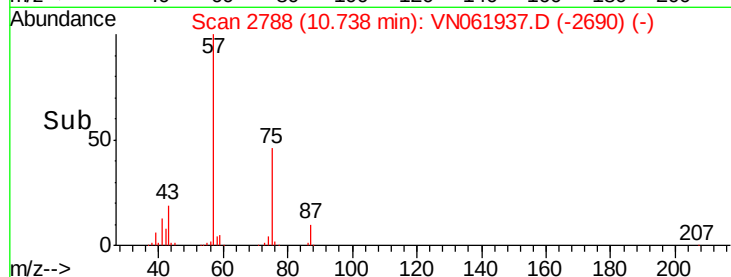
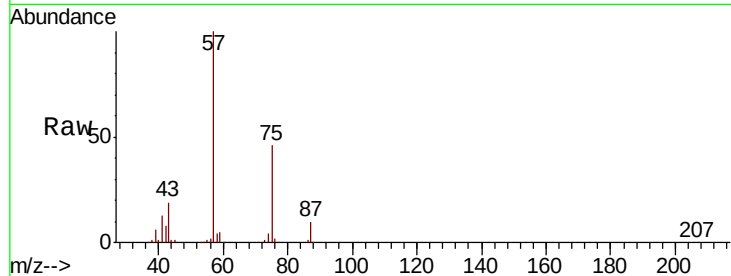




#59
2-Hexanone
Concen: 35.382 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

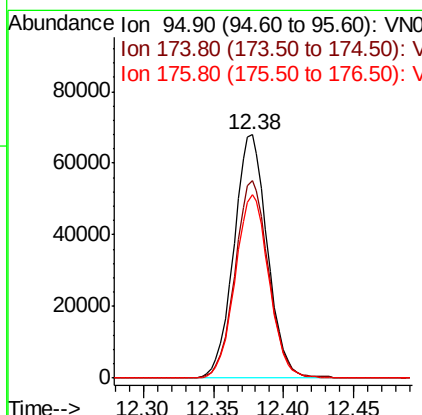
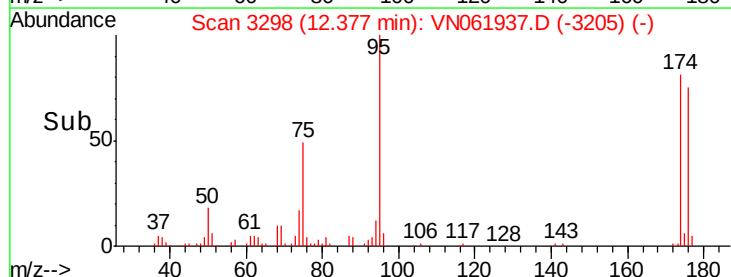
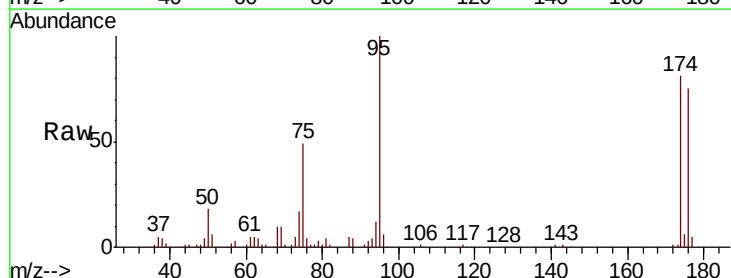
Instrument :
MSVOA_N
ClientSampled :
RO-11

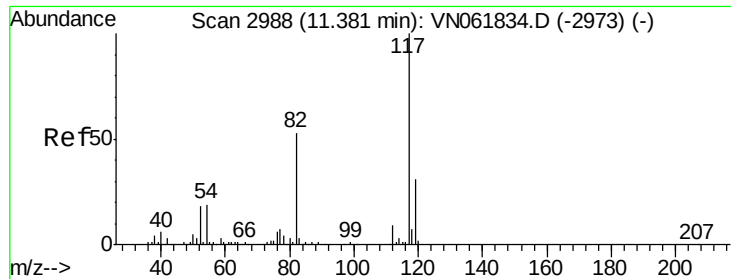
Tot Ion: 43 Resp: 35097
Ion Ratio Lower Upper
43 100
58 21.5 30.1 90.5#



#62
4-Bromofluorobenzene
Concen: 49.184 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

Tgt Ion: 95 Resp: 113175
Ion Ratio Lower Upper
95 100
174 81.3 0.0 158.6
176 75.8 0.0 152.0

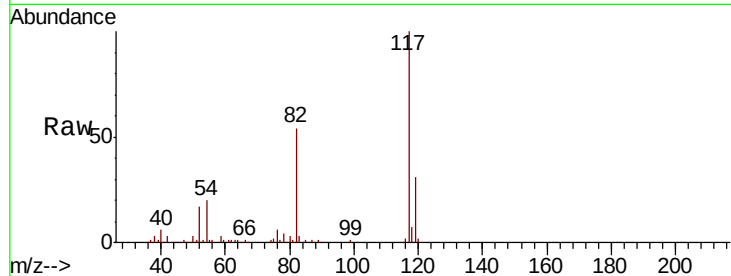




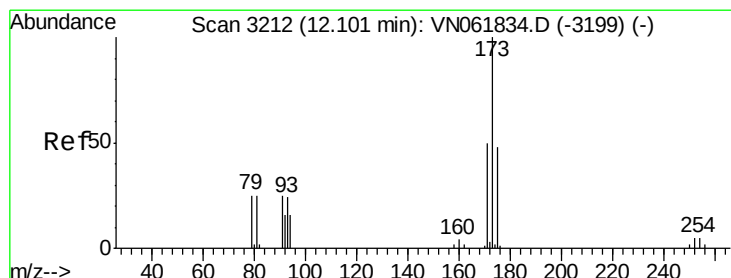
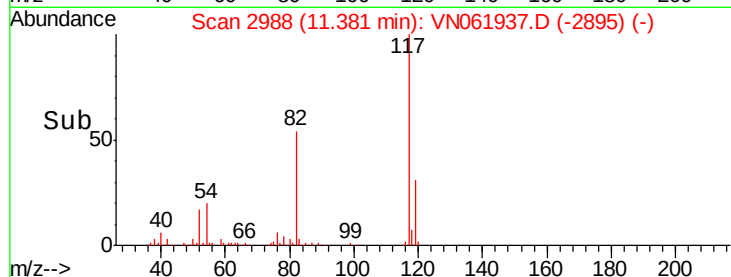
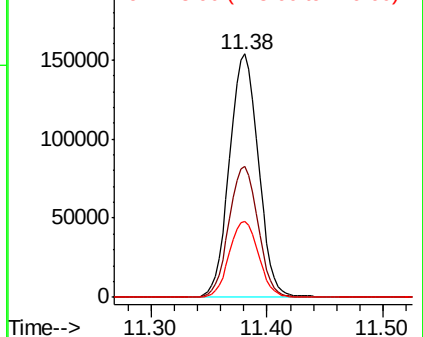
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

Instrument :
MSVOA_N
ClientSampleId :
RO-11

Tot Ion:117 Resp: 266593
Ion Ratio Lower Upper
117 100
82 53.6 42.6 64.0
119 31.2 24.7 37.1

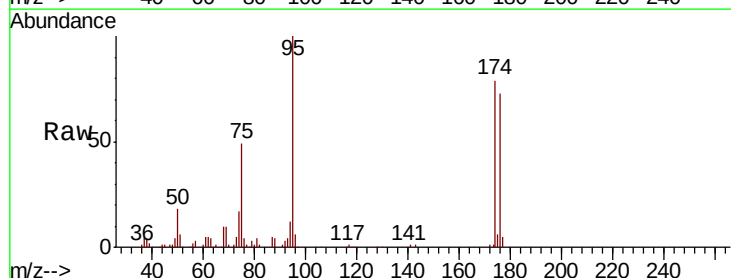


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

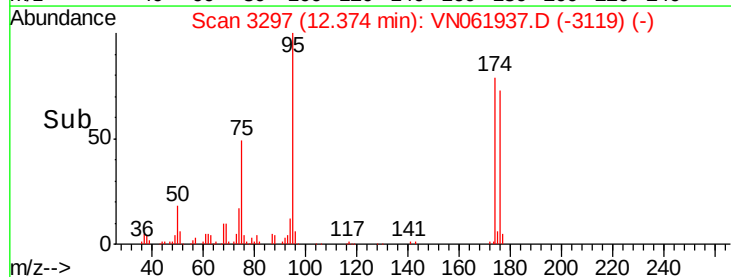
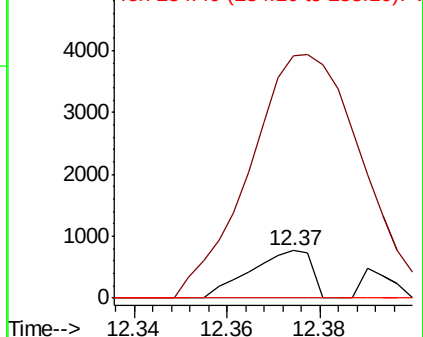


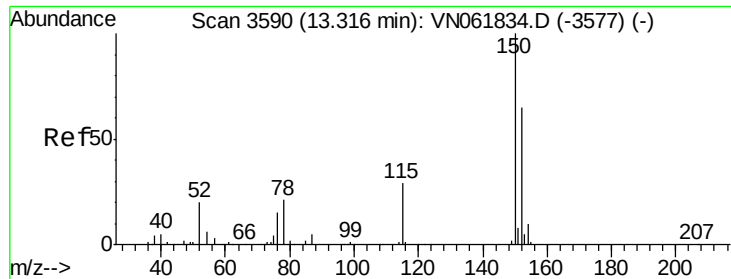
#71
Bromoform
Concen: 0.495 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN061937.D
Acq: 19 Jun 2020 7:18

Tgt Ion:173 Resp: 708
Ion Ratio Lower Upper
173 100
175 801.3 23.9 71.7#
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: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061937.D

Acq: 19 Jun 2020 7:18

Instrument :

MSVOA_N

ClientSampled :

RO-11

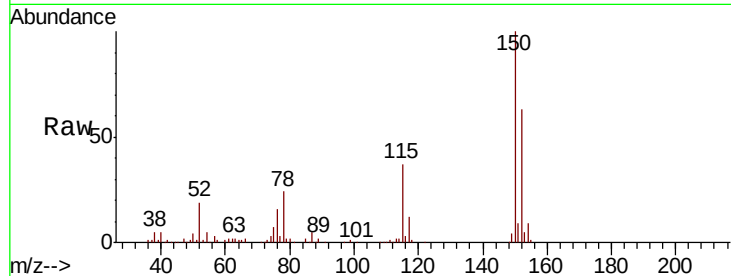
Tot Ion:152 Resp: 104158

Ion Ratio Lower Upper

152 100

115 59.1 29.1 87.3

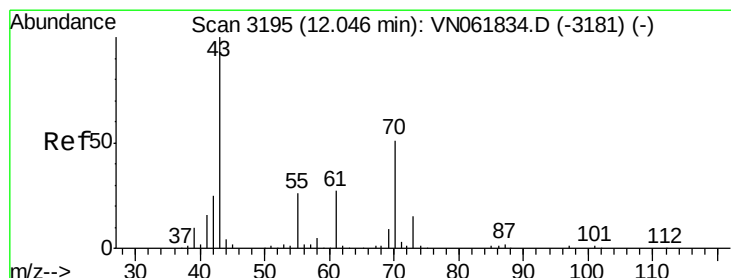
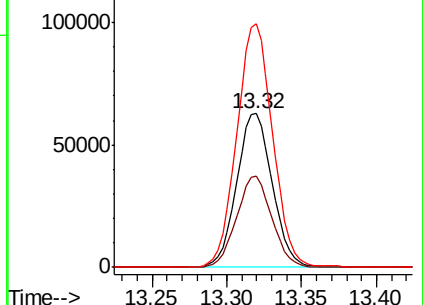
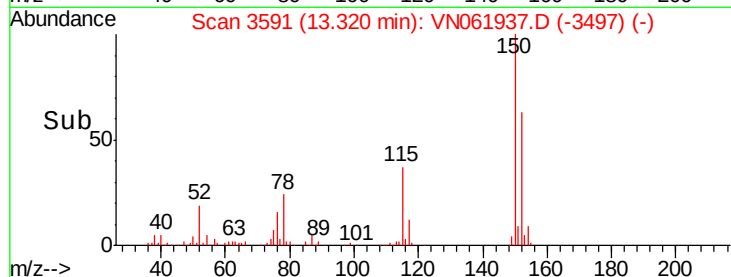
150 159.7 0.0 347.6



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: 3.503 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061937.D

Acq: 19 Jun 2020 7:18

Tgt Ion: 43 Resp: 1253

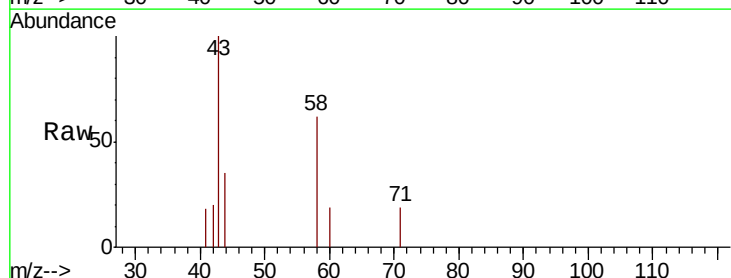
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#

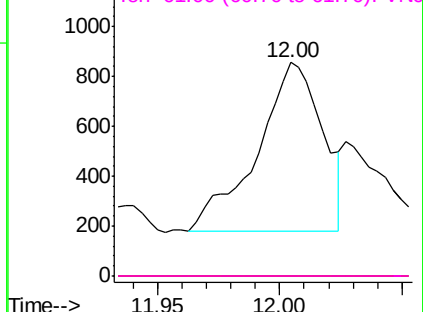
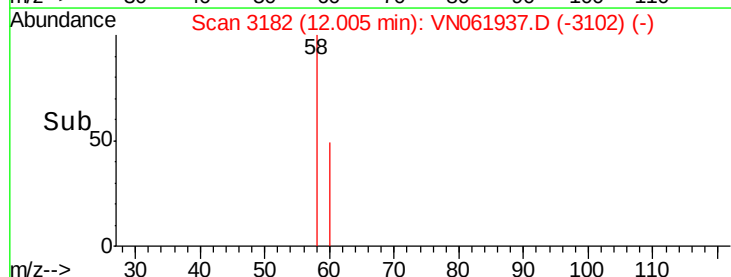


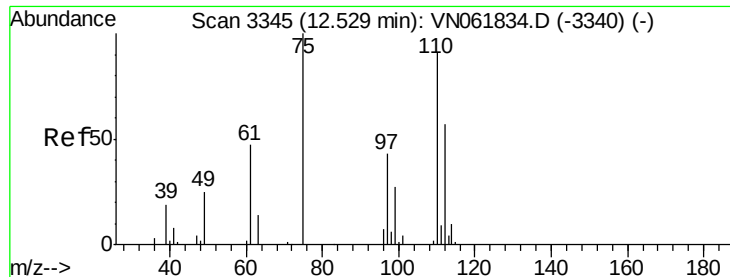
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 27.544 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061937.D

Acq: 19 Jun 2020 7:18

Instrument :

MSVOA_N

ClientSampled :

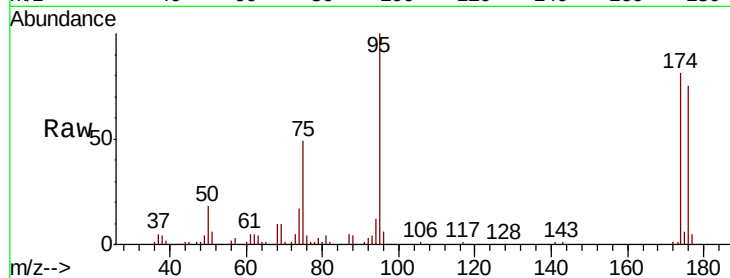
RO-11

Tot Ion: 75 Resp: 56325

Ion Ratio Lower Upper

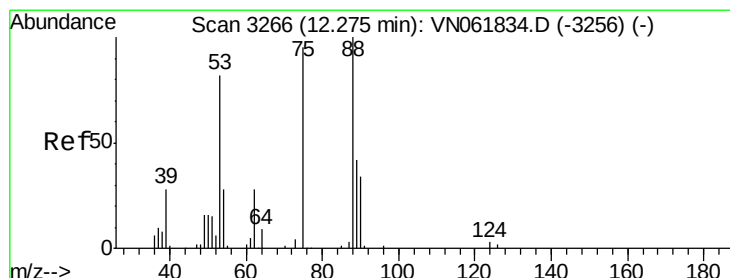
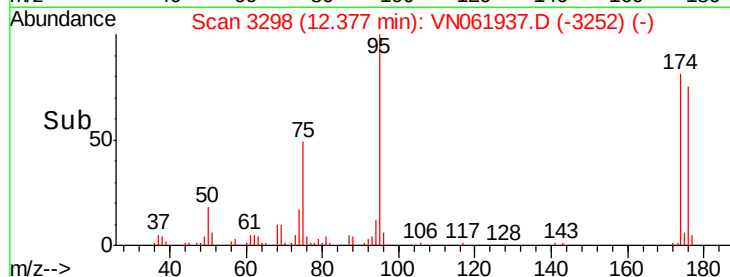
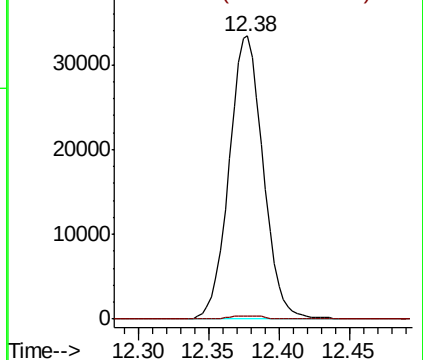
75 100

77 1.1 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: 75.125 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061937.D

Acq: 19 Jun 2020 7:18

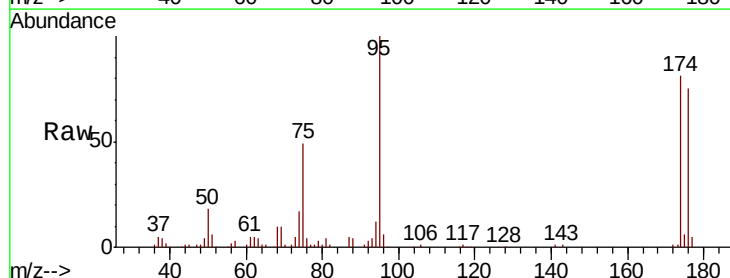
Tgt Ion: 75 Resp: 56325

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#



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

