

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080118\
 Data File : VN050249.D
 Acq On : 1 Aug 2018 15:10
 Operator : MD\SY
 Sample : PB111649ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 02 00:54:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	652912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1090353	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	925932	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	343292	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	466640	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	
35) Dibromofluoromethane	7.59	113	407657	45.79	ug/l	0.00
Spiked Amount			Recovery	=	91.58%	
50) Toluene-d8	10.09	98	1466968	44.82	ug/l	0.00
Spiked Amount			Recovery	=	89.64%	
62) 4-Bromofluorobenzene	12.40	95	411831	38.21	ug/l	0.00
Spiked Amount			Recovery	=	76.42%	

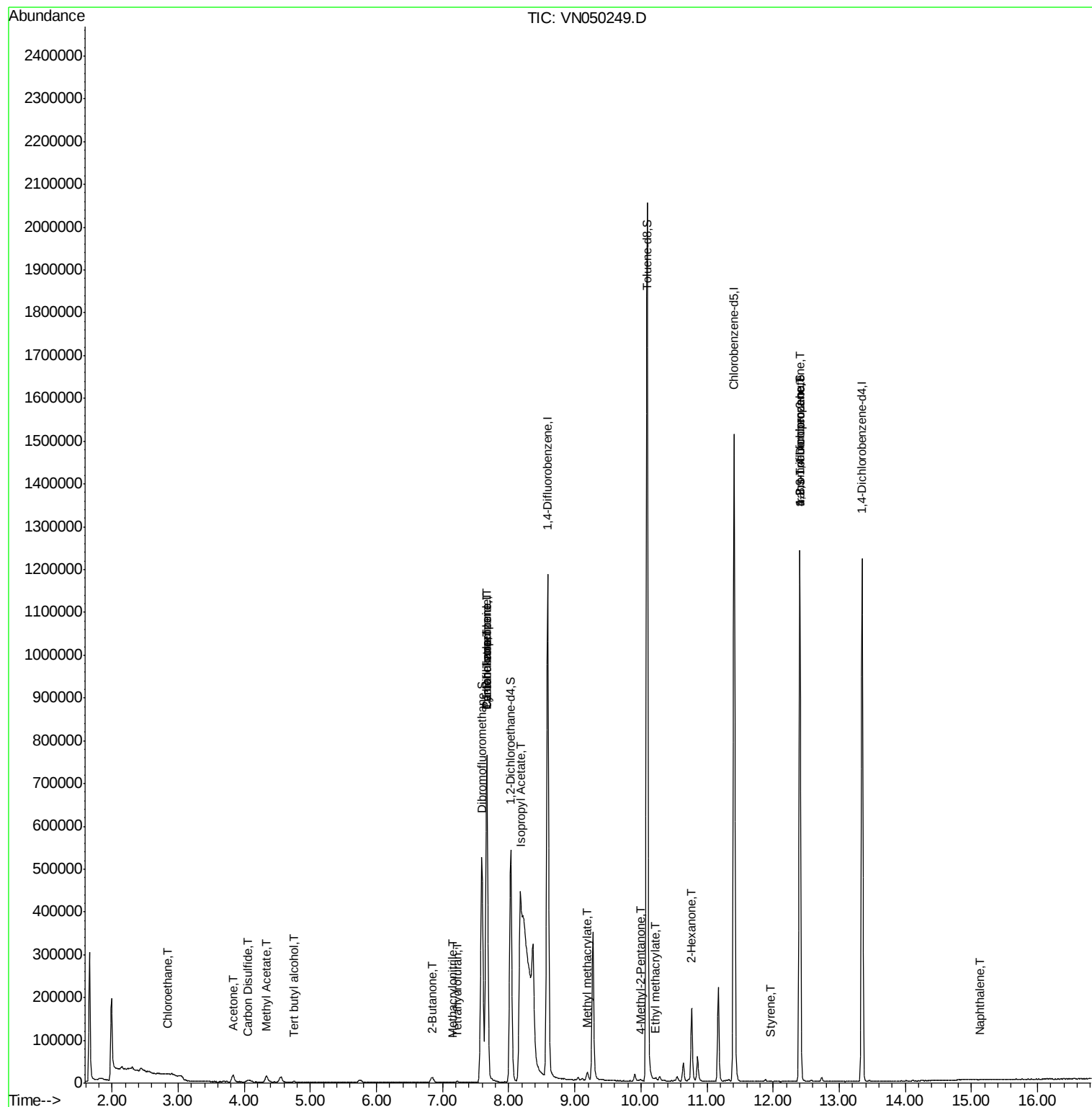
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	282	Below Cal	#	3
6) Chloroethane	2.84	64	1682	0.26	ug/l #	52
11) Tert butyl alcohol	4.74	59	920	1.37	ug/l #	72
16) Acetone	3.83	43	28555	9.12	ug/l	97
17) Carbon Disulfide	4.05	76	6623	0.29	ug/l #	89
18) Methyl Acetate	4.34	43	30159	2.05	ug/l #	74
20) Methylene Chloride	4.56	84	8949	Below Cal		92
25) 2-Butanone	6.86	43	5052	1.45	ug/l	91
29) Tetrahydrofuran	7.22	42	1397	0.62	ug/l #	80
31) Cyclohexane	7.67	56	12740	0.95	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46034	3.75	ug/l #	48
38) Carbon Tetrachloride	7.67	117	59513	4.57	ug/l #	16
41) Methacrylonitrile	7.15	41	30	2.75	ug/l #	10
43) Isopropyl Acetate	8.17	43	674592	41.61	ug/l #	81
48) Methyl methacrylate	9.18	41	10493	1.42	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	2113	0.25	ug/l #	79
56) Ethyl methacrylate	10.22	69	3130	2.28	ug/l #	70
59) 2-Hexanone	10.77	43	24004	8.97	ug/l #	58
70) Styrene	11.97	104	349	0.94	ug/l #	37
75) 1,1,2,2-Tetrachloroethane	12.41	83	113	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	200017	31.35	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	200017	99.44	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	136	Below Cal	#	1
95) Naphthalene	15.14	128	299	4.43	ug/l #	69

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

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Quant Time: Aug 02 00:54:54 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.00 min

Lab File: VN050249.D

Acq: 1 Aug 2018 15:10

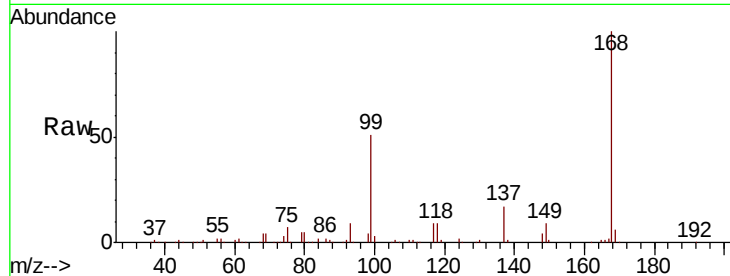
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 652912

Ion Ratio Lower Upper

168 100

99 51.2 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

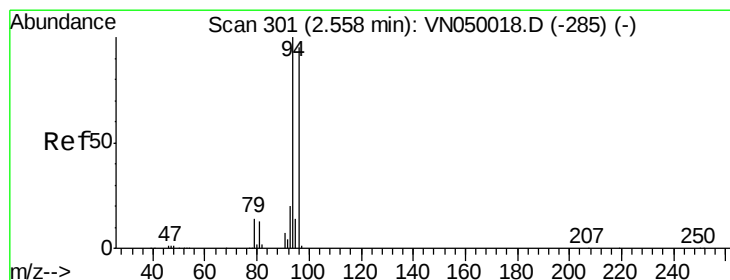
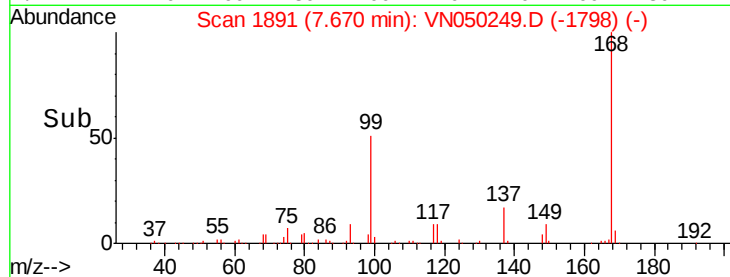
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 301

Delta R.T. 0.01 min

Lab File: VN050249.D

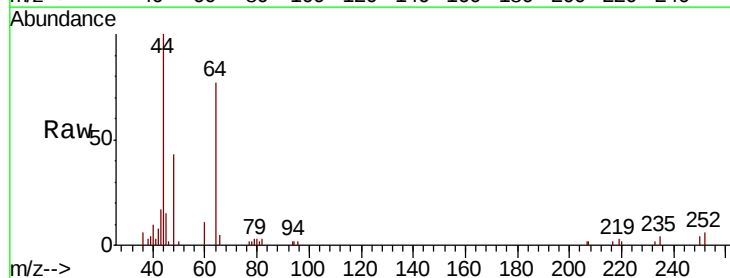
Acq: 1 Aug 2018 15:10

Tgt Ion: 94 Resp: 282

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

400

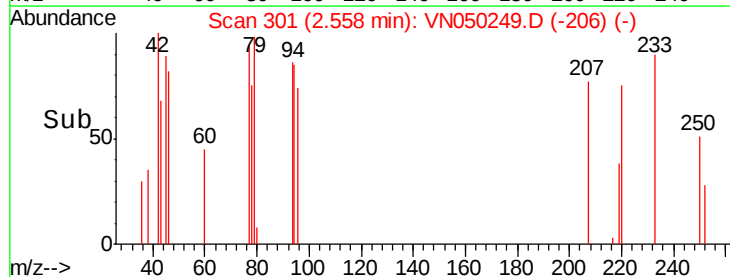
300

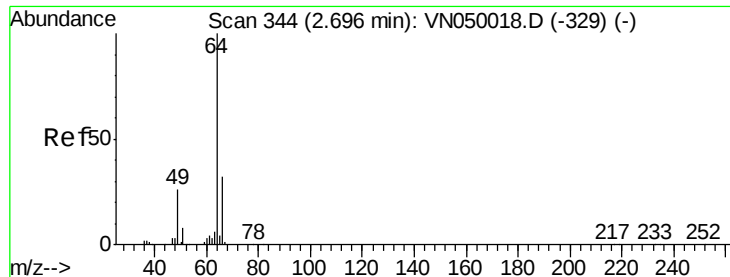
200

100

0

Time-->





#6

Chloroethane

Concen: 0.26 ug/l

RT: 2.84 min Scan# 389

Delta R.T. 0.15 min

Lab File: VN050249.D

Acq: 1 Aug 2018 15:10

Instrument :

MSVOA_N

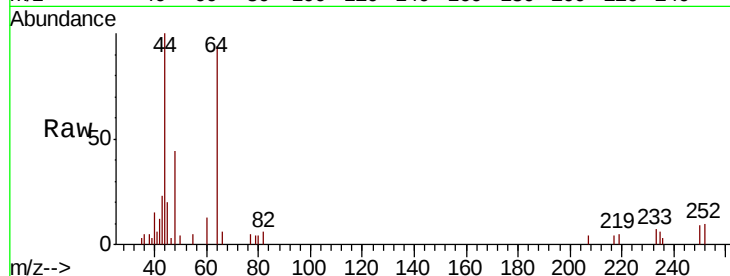
ClientSampled :

Tot Ion: 64 Resp: 1682

Ion Ratio Lower Upper

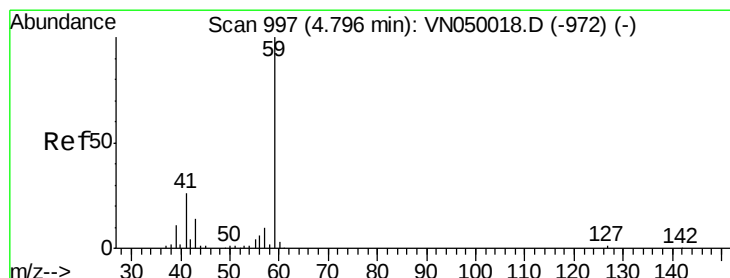
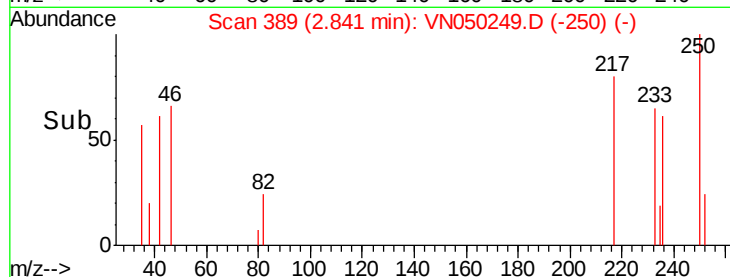
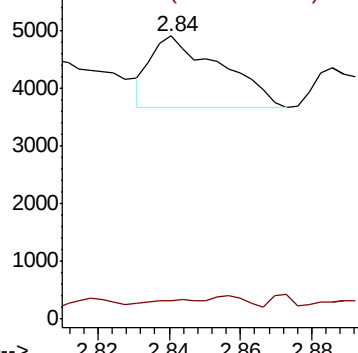
64 100

66 4.8 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#11

Tert butyl alcohol

Concen: 1.37 ug/l

RT: 4.74 min Scan# 981

Delta R.T. -0.06 min

Lab File: VN050249.D

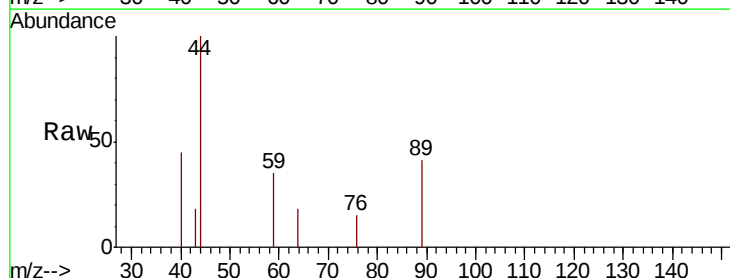
Acq: 1 Aug 2018 15:10

Tgt Ion: 59 Resp: 920

Ion Ratio Lower Upper

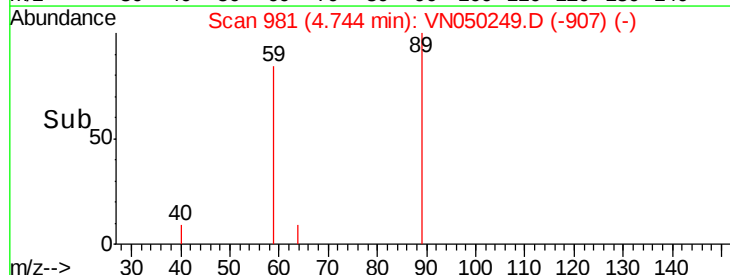
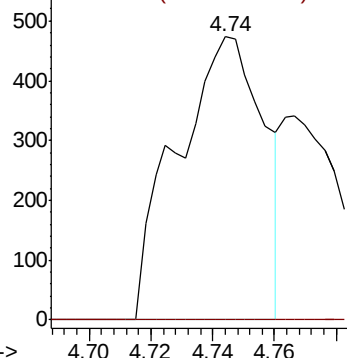
59 100

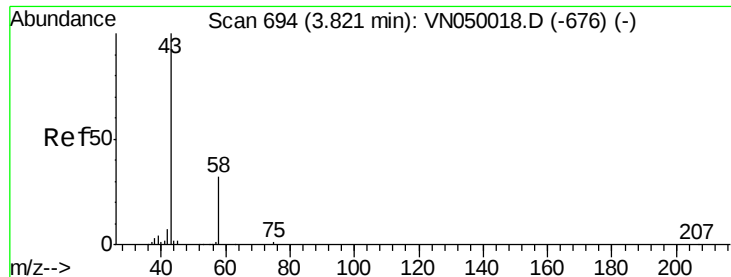
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 9.12 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN050249.D

Acq: 1 Aug 2018 15:10

Instrument :

MSVOA_N

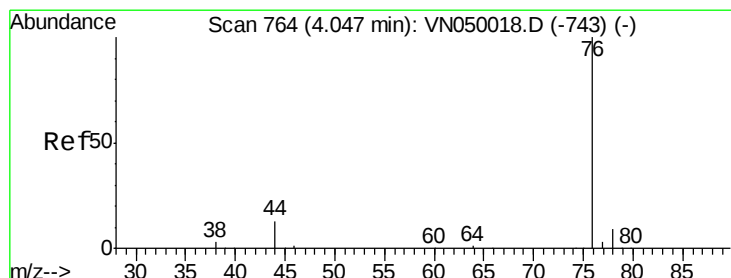
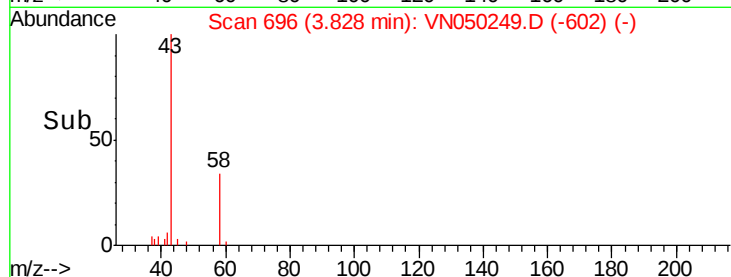
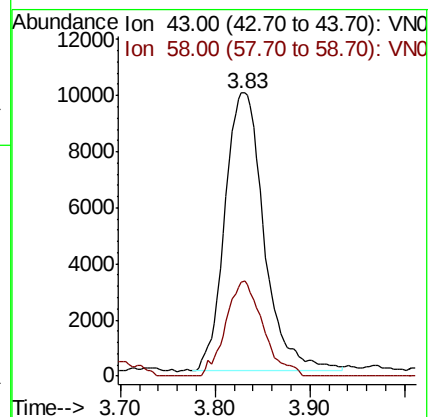
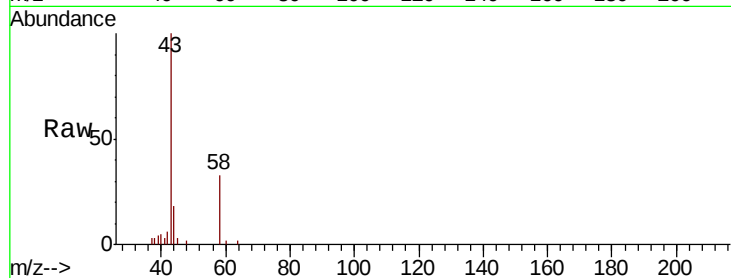
ClientSampled :

Tot Ion: 43 Resp: 28555

Ion Ratio Lower Upper

43 100

58 33.8 25.8 38.8



#17

Carbon Disulfide

Concen: 0.29 ug/l

RT: 4.05 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN050249.D

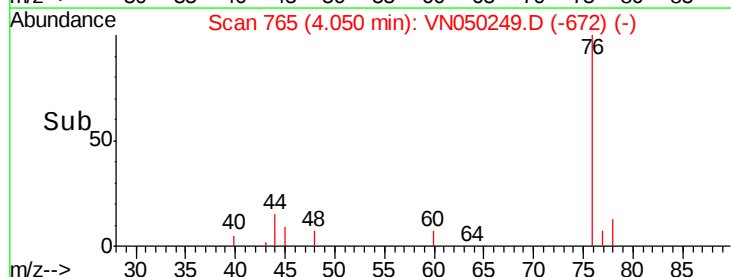
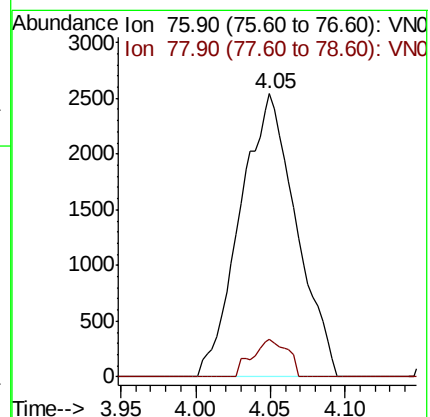
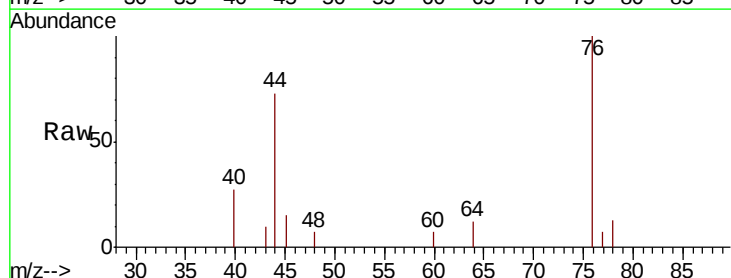
Acq: 1 Aug 2018 15:10

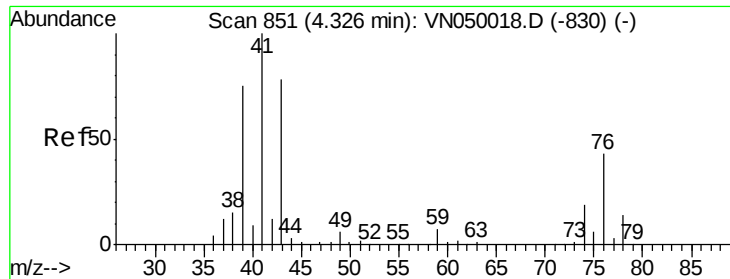
Tgt Ion: 76 Resp: 6623

Ion Ratio Lower Upper

76 100

78 13.1 7.3 10.9#

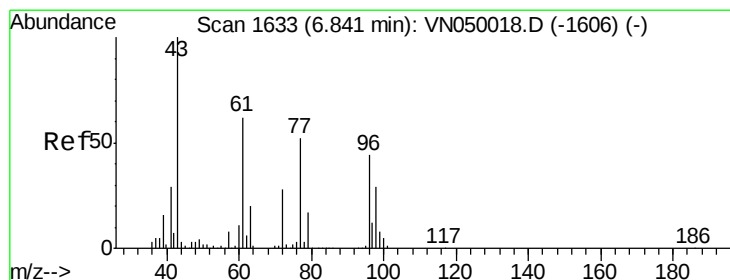
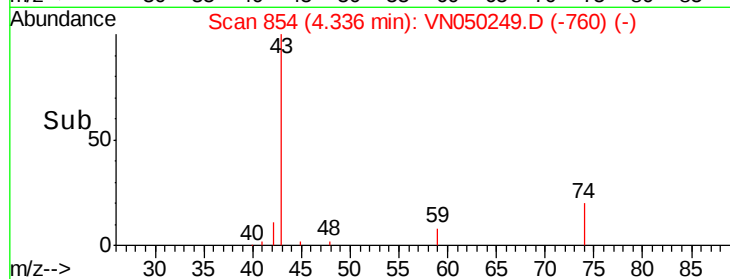
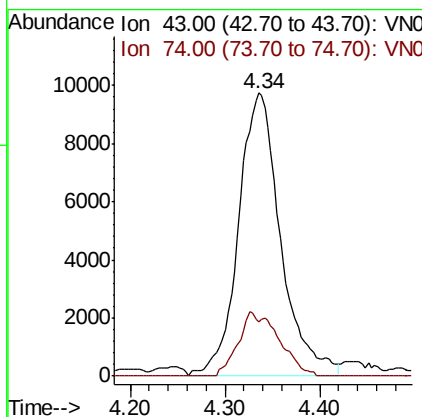
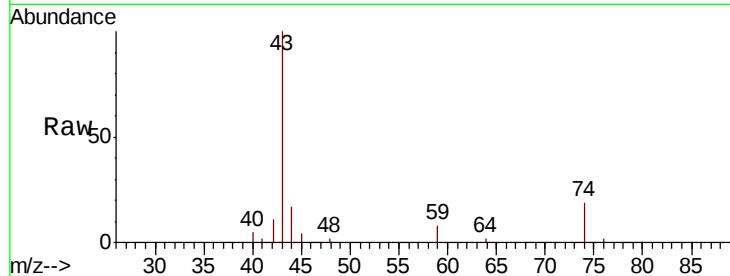




#18
Methvl Acetate
Concen: 2.05 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.00 min
Lab File: VN050249.D
Acq: 1 Aug 2018 15:10

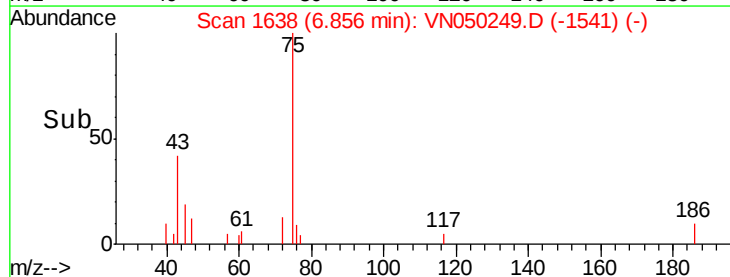
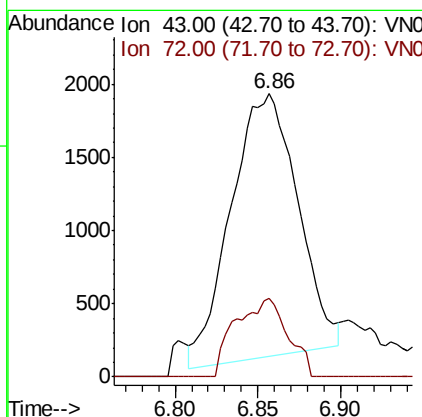
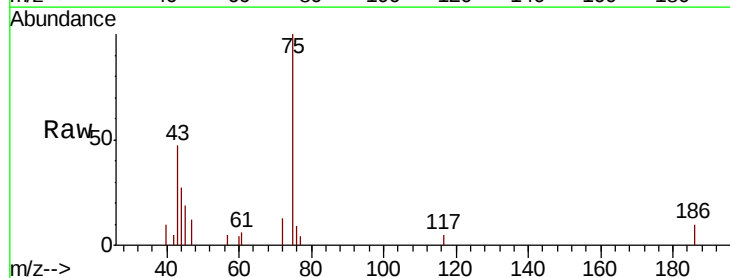
Instrument :
MSVOA_N
ClientSampled :

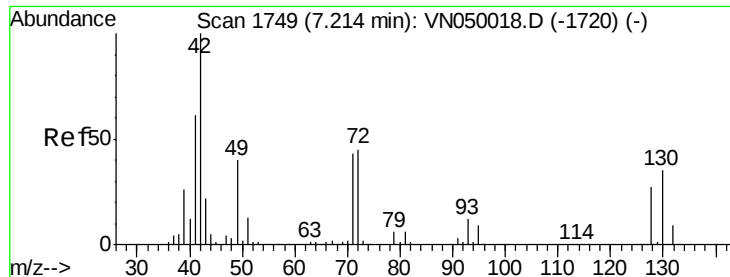
Tot Ion: 43 Resp: 30159
Ion Ratio Lower Upper
43 100
74 11.0 19.2 28.8#



#25
2-Butanone
Concen: 1.45 ug/l
RT: 6.86 min Scan# 1638
Delta R.T. 0.01 min
Lab File: VN050249.D
Acq: 1 Aug 2018 15:10

Tgt Ion: 43 Resp: 5052
Ion Ratio Lower Upper
43 100
72 31.4 21.5 32.3





#29

Tetrahydrofuran

Concen: 0.62 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.00 min

Lab File: VN050249.D

Acq: 1 Aug 2018 15:10

Instrument :

MSVOA_N

ClientSampled :

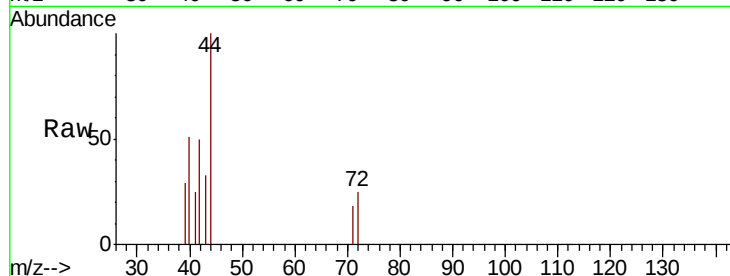
Tot Ion: 42 Resp: 1397

Ion Ratio Lower Upper

42 100

72 35.5 35.9 53.9#

71 25.3 33.7 50.5#



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

7.22

600

400

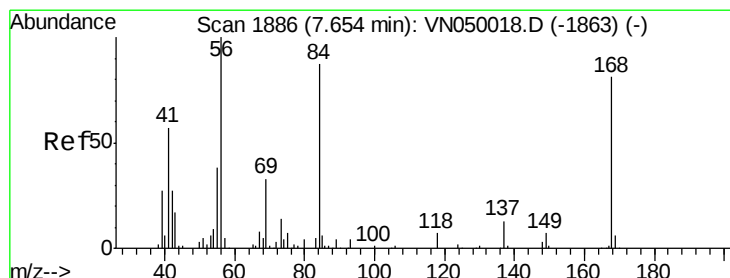
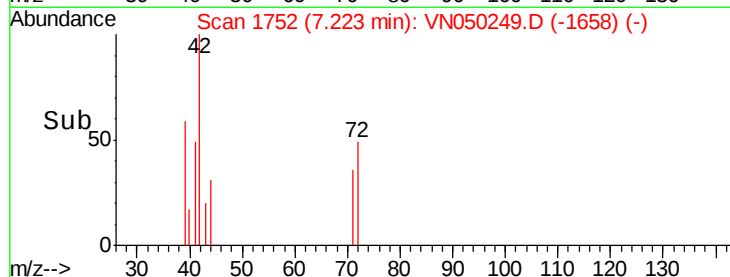
200

0

7.20

7.25

Time-->



#31

Cyclohexane

Concen: 0.95 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050249.D

Acq: 1 Aug 2018 15:10

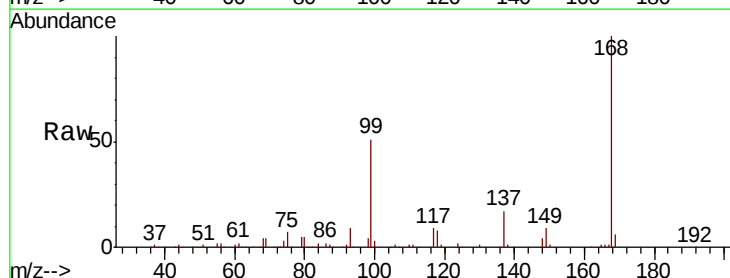
Tgt Ion: 56 Resp: 12740

Ion Ratio Lower Upper

56 100

69 192.2 26.2 39.4#

84 127.8 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

7.67

10000

5000

0

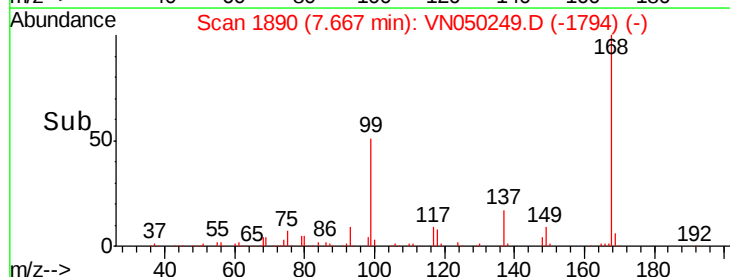
7.60

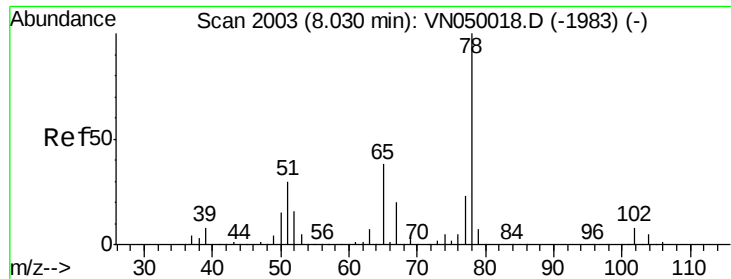
7.65

7.70

7.75

Time-->

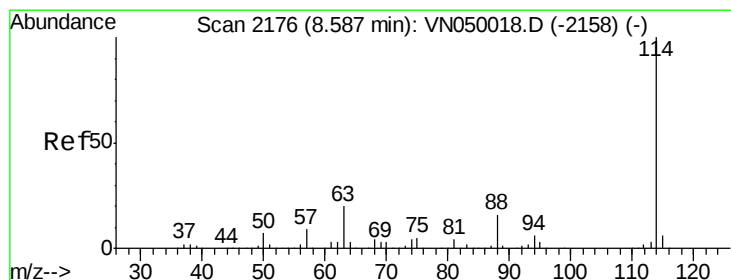
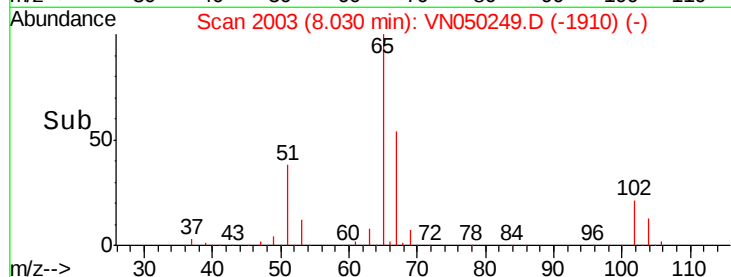
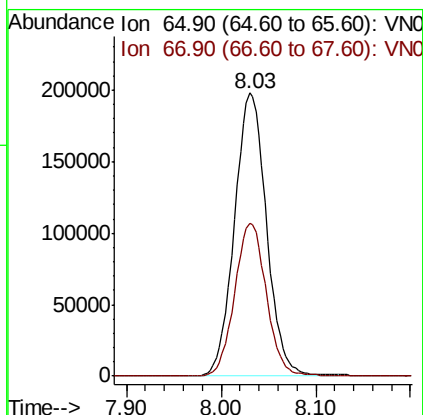
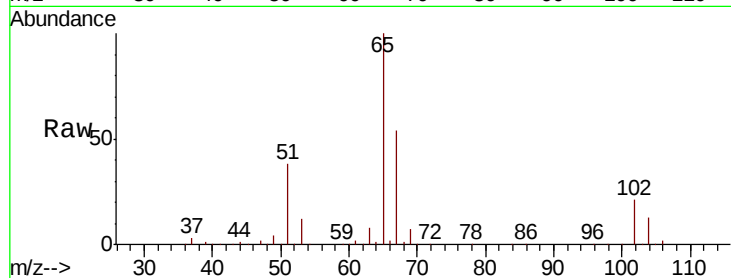




#33
 1,2-Dichloroethane-d4
 Concen: 51.22 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050249.D
 Acq: 1 Aug 2018 15:10

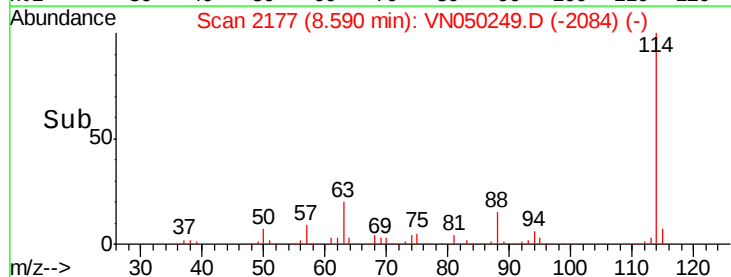
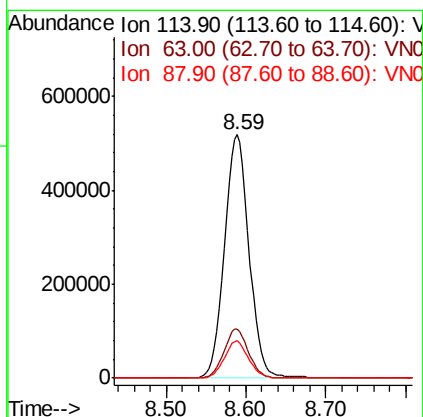
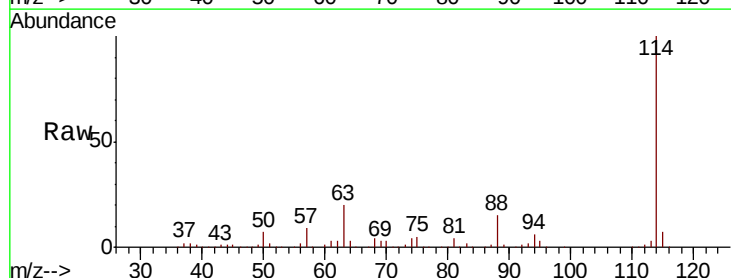
Instrument :
 MSVOA_N
 ClientSampleId :

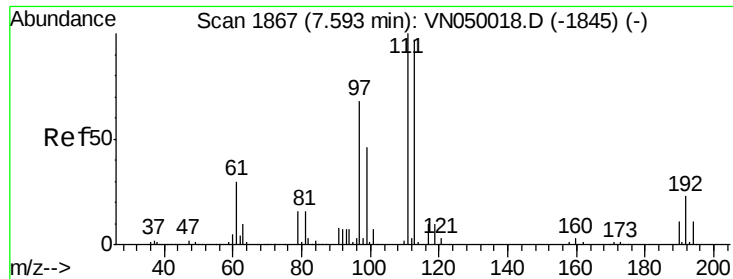
Tot Ion: 65 Resp: 466640
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. -0.00 min
 Lab File: VN050249.D
 Acq: 1 Aug 2018 15:10

Tgt Ion: 114 Resp: 1090353
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.0
 88 15.2 0.0 31.2

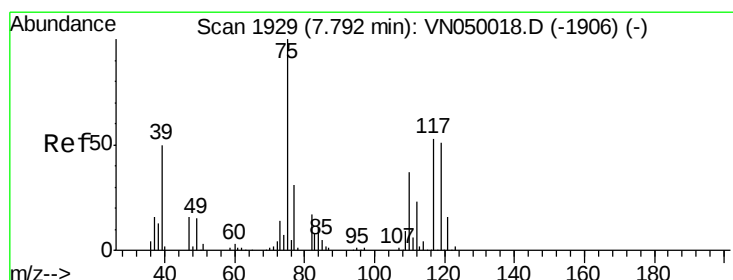
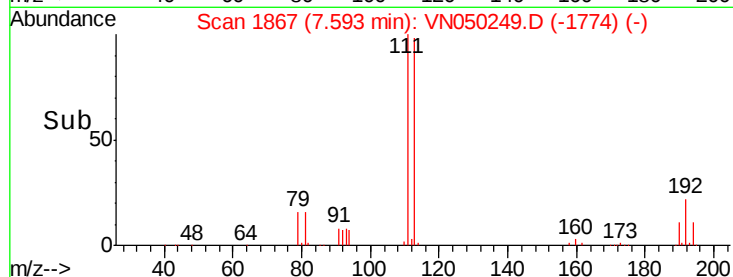
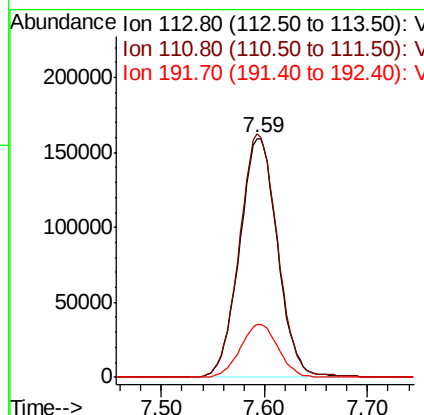
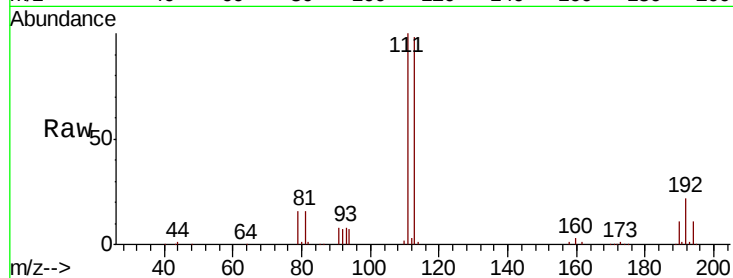




#35
 Dibromofluoromethane
 Concen: 45.79 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050249.D
 Acq: 1 Aug 2018 15:10

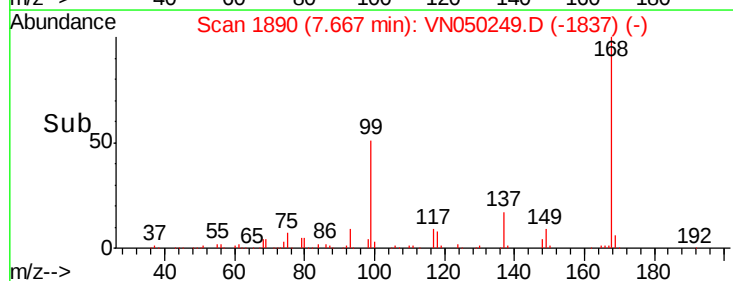
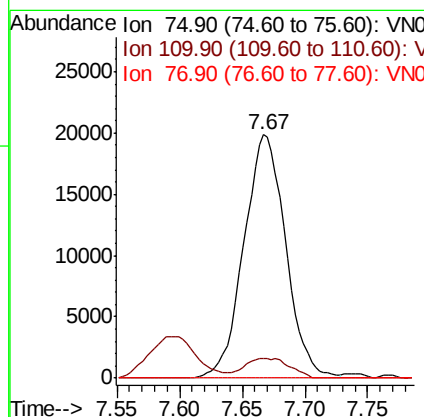
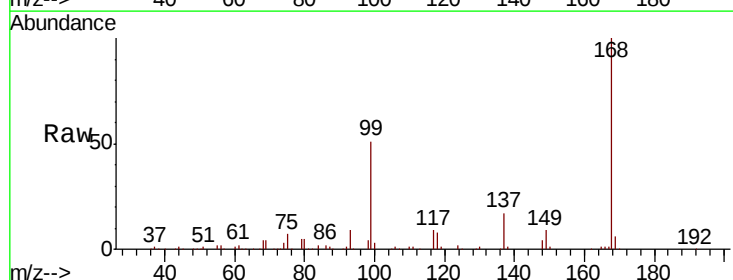
Instrument :
 MSVOA_N
 ClientSampleId :

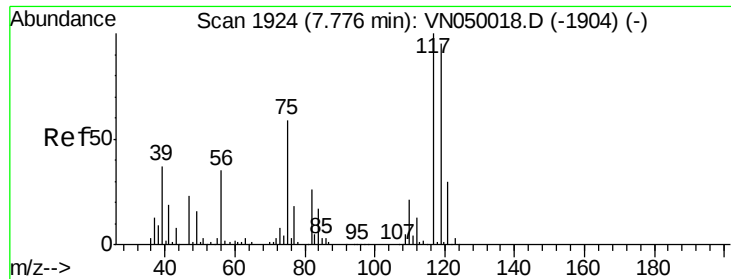
Tot Ion:113 Resp: 407657
 Ion Ratio Lower Upper
 113 100
 111 102.3 80.7 121.1
 192 22.1 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.75 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050249.D
 Acq: 1 Aug 2018 15:10

Tgt Ion: 75 Resp: 46034
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.4 55.2#
 77 0.0 25.3 37.9#

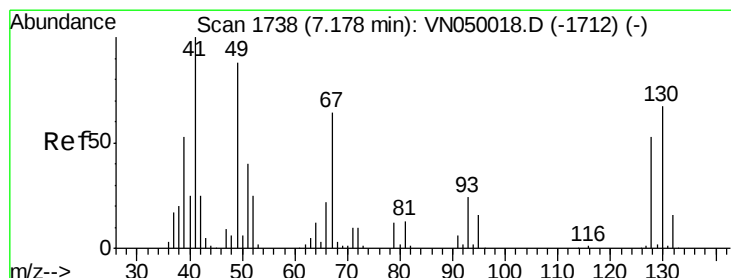
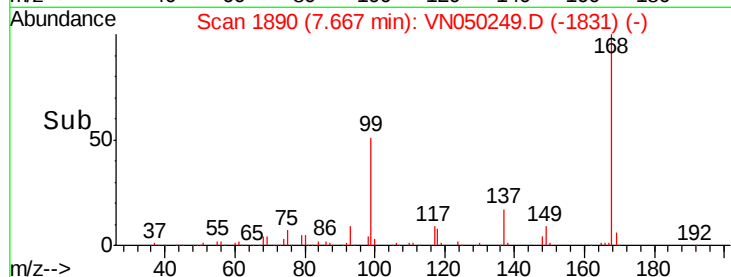
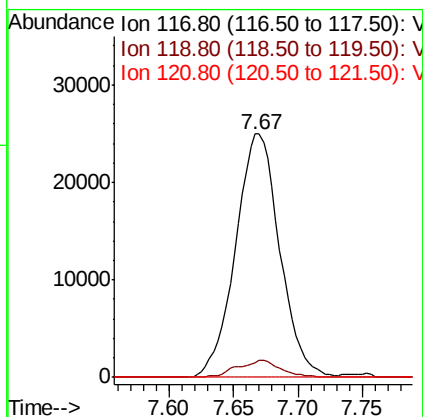
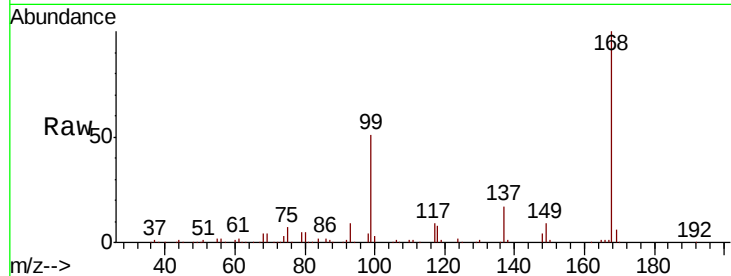




#38
Carbon Tetrachloride
Concen: 4.57 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050249.D
Acq: 1 Aug 2018 15:10

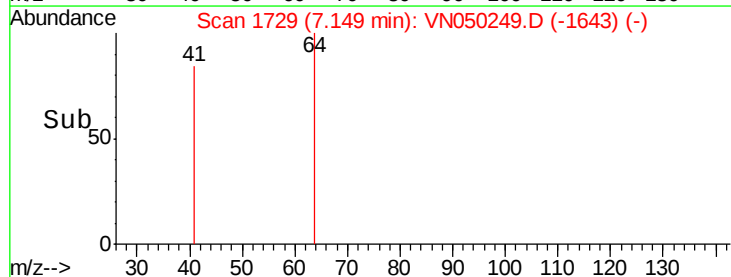
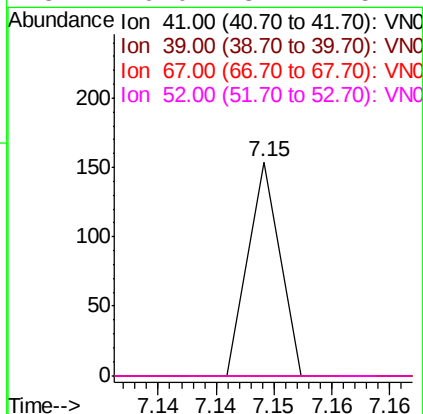
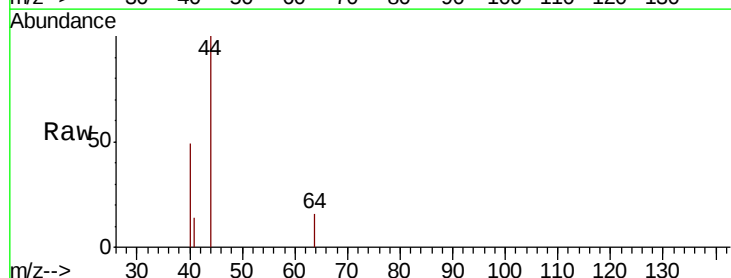
Instrument :
MSVOA_N
ClientSampleId :

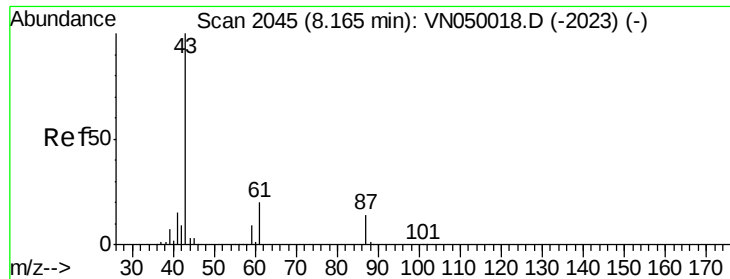
Tot Ion:117 Resp: 59513
Ion Ratio Lower Upper
117 100
119 6.1 77.4 116.0#
121 0.0 23.9 35.9#



#41
Methacrylonitrile
Concen: 2.75 ug/l
RT: 7.15 min Scan# 1729
Delta R.T. -0.02 min
Lab File: VN050249.D
Acq: 1 Aug 2018 15:10

Tgt Ion: 41 Resp: 30
Ion Ratio Lower Upper
41 100
39 0.0 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#





#43

Isopropyl Acetate

Concen: 41.61 ug/l

RT: 8.17 min Scan# 2048

Delta R.T. 0.01 min

Lab File: VN050249.D

Acq: 1 Aug 2018 15:10

Instrument :

MSVOA_N

ClientSampled :

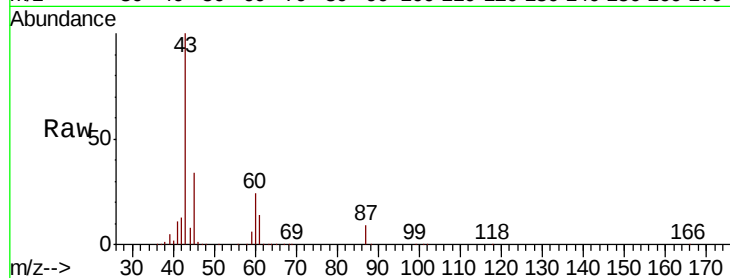
Tot Ion: 43 Resp: 674592

Ion Ratio Lower Upper

43 100

61 10.2 15.8 23.6#

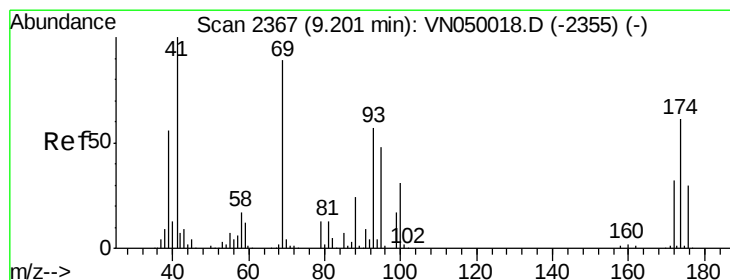
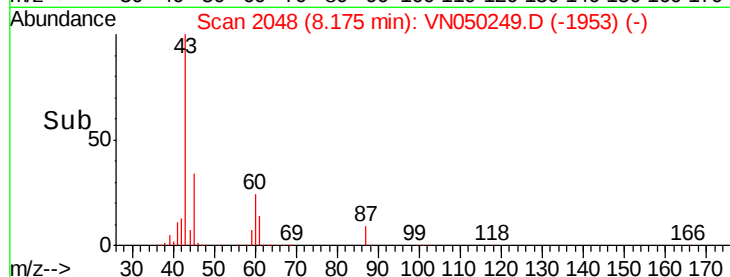
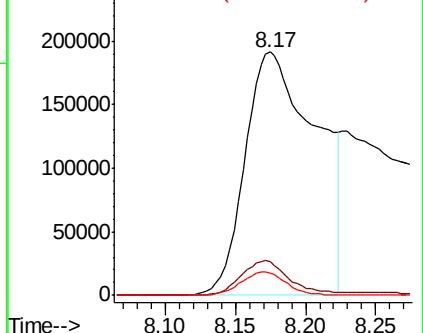
87 6.2 10.3 15.5#



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



#48

Methyl methacrylate

Concen: 1.42 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050249.D

Acq: 1 Aug 2018 15:10

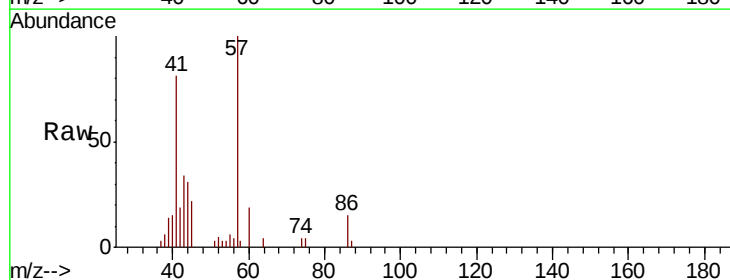
Tgt Ion: 41 Resp: 10493

Ion Ratio Lower Upper

41 100

69 0.0 70.6 105.8#

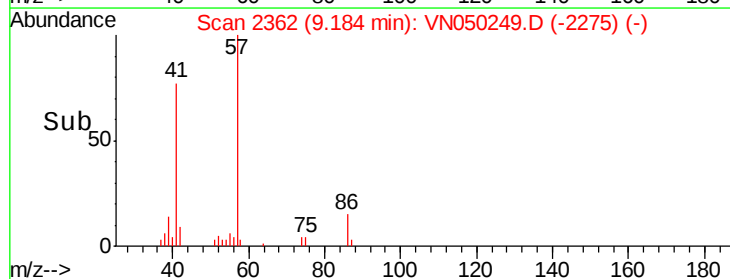
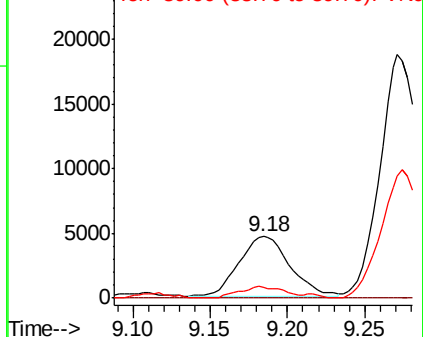
39 16.9 43.9 65.9#

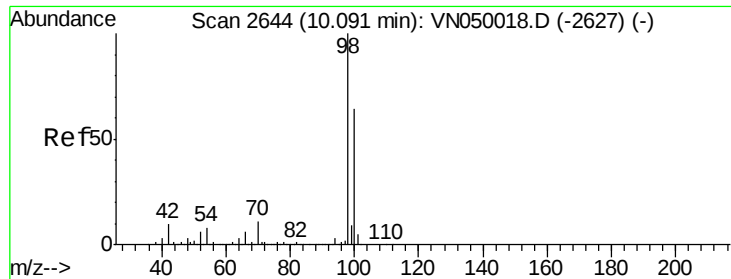


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 44.82 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. -0.00 min

Lab File: VN050249.D

Acq: 1 Aug 2018 15:10

Instrument :

MSVOA_N

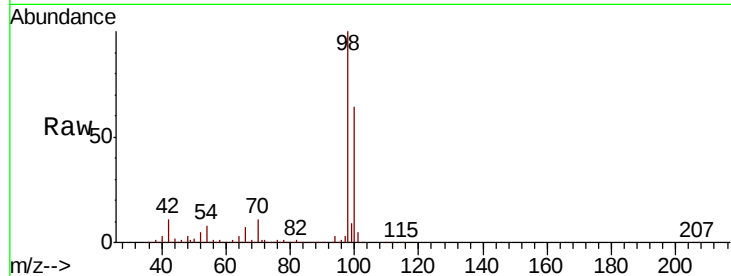
ClientSampled :

Tot Ion: 98 Resp: 1466968

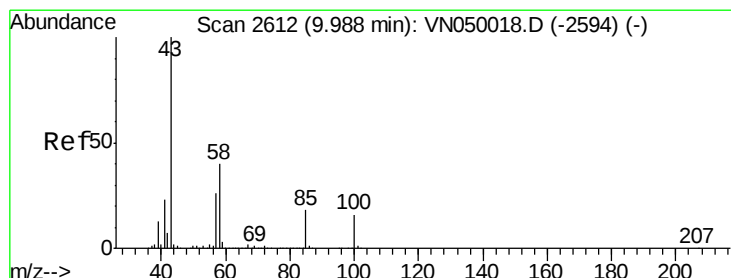
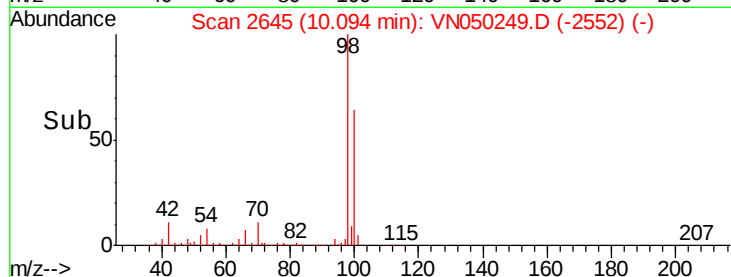
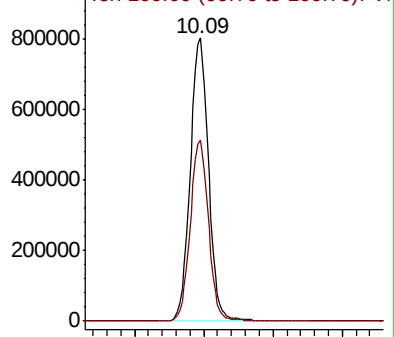
Ion Ratio Lower Upper

98 100

100 63.8 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN050018.D (-2627) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.25 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.00 min

Lab File: VN050249.D

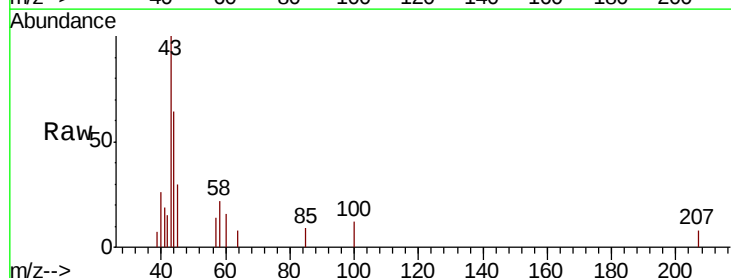
Acq: 1 Aug 2018 15:10

Tgt Ion: 43 Resp: 2113

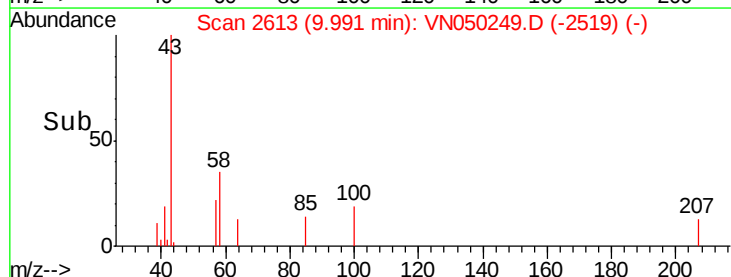
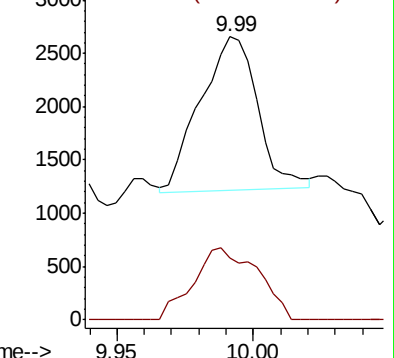
Ion Ratio Lower Upper

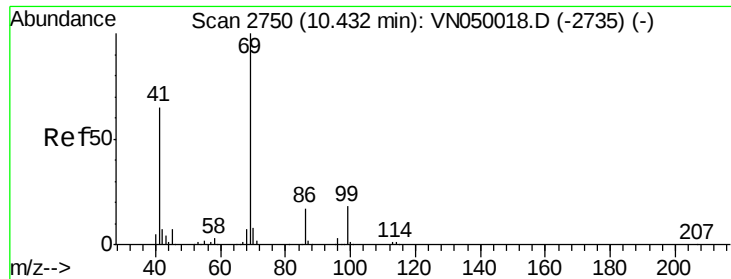
43 100

58 52.8 31.9 47.9#



Abundance Ion 43.00 (42.70 to 43.70): VN050018.D (-2594) (-)





#56

Ethyl methacrylate

Concen: 2.28 ug/l

RT: 10.22 min Scan# 2685

Delta R.T. -0.21 min

Lab File: VN050249.D

Acq: 1 Aug 2018 15:10

Instrument :

MSVOA_N

ClientSampled :

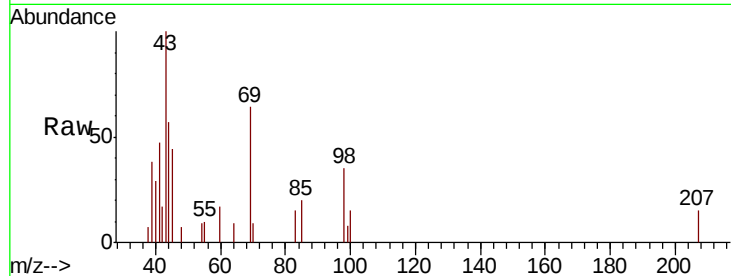
Tot Ion: 69 Resp: 3130

Ion Ratio Lower Upper

69 100

41 96.9 51.0 76.4#

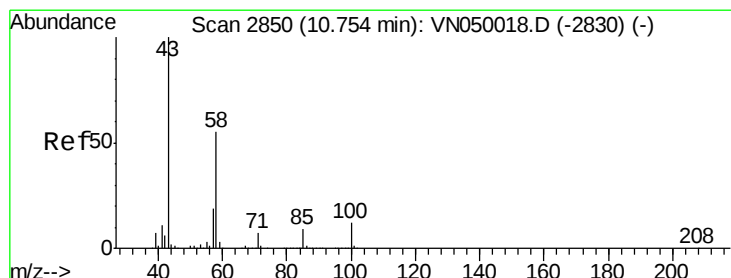
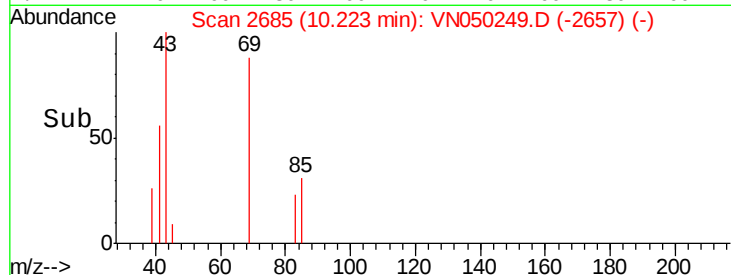
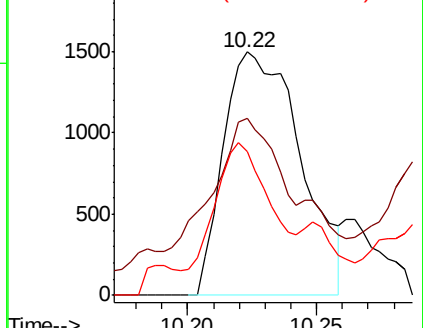
39 37.2 26.6 40.0



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



#59

2-Hexanone

Concen: 8.97 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050249.D

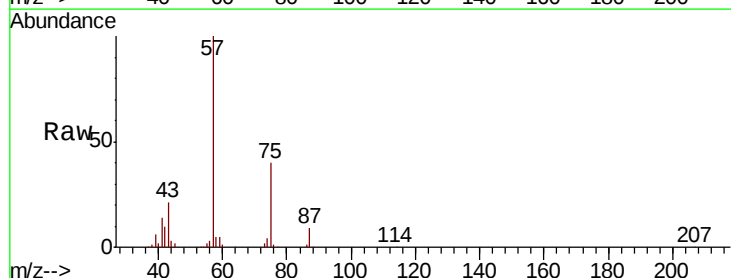
Acq: 1 Aug 2018 15:10

Tgt Ion: 43 Resp: 24004

Ion Ratio Lower Upper

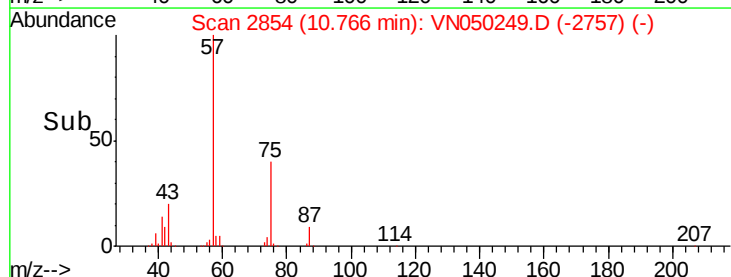
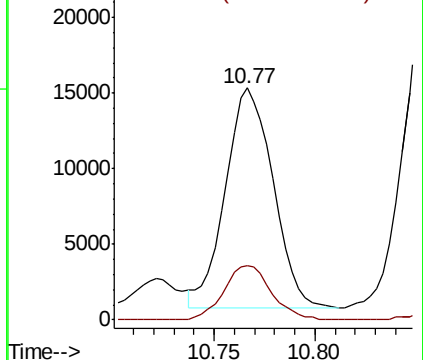
43 100

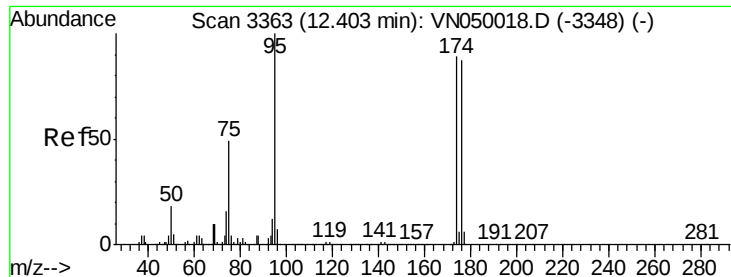
58 24.6 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 38.21 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050249.D

Acq: 1 Aug 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

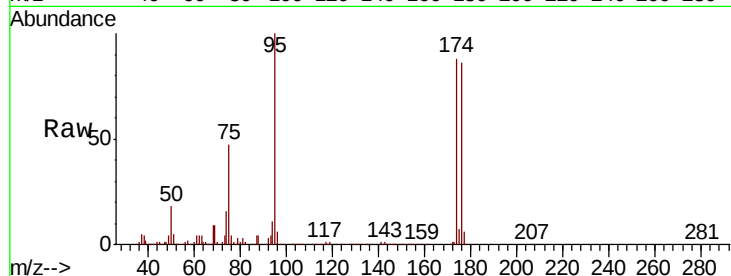
Tot Ion: 95 Resp: 411831

Ion Ratio Lower Upper

95 100

174 89.9 0.0 178.2

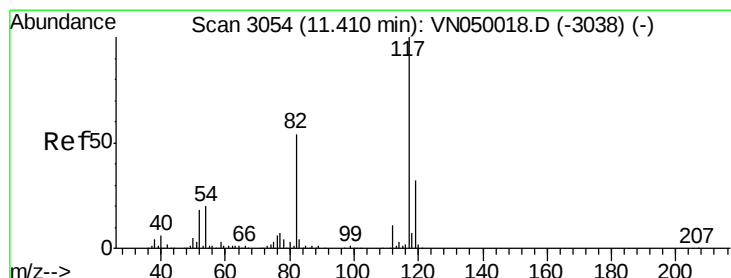
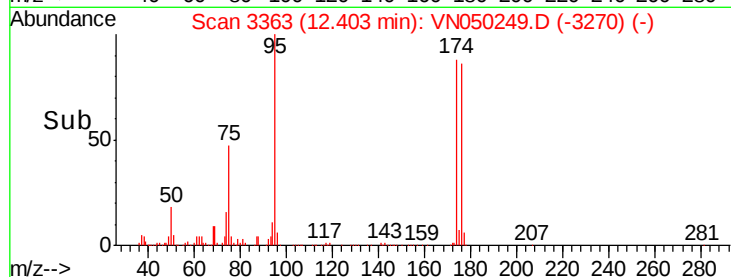
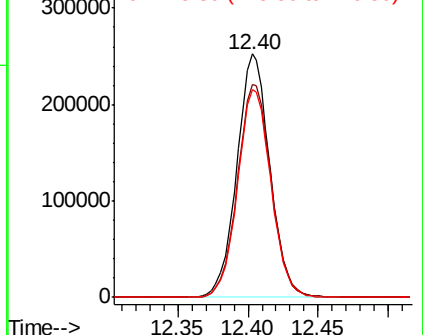
176 86.5 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN050018.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050018.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050018.D (-3348) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050249.D

Acq: 1 Aug 2018 15:10

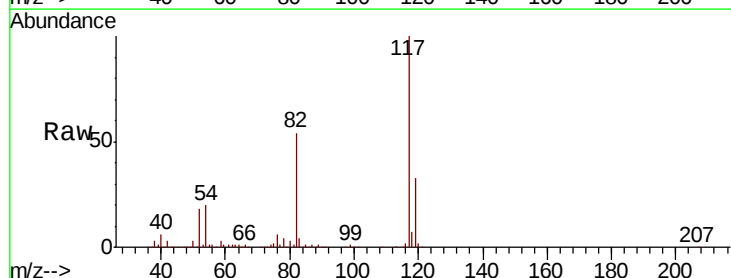
Tgt Ion: 117 Resp: 925932

Ion Ratio Lower Upper

117 100

82 53.9 43.7 65.5

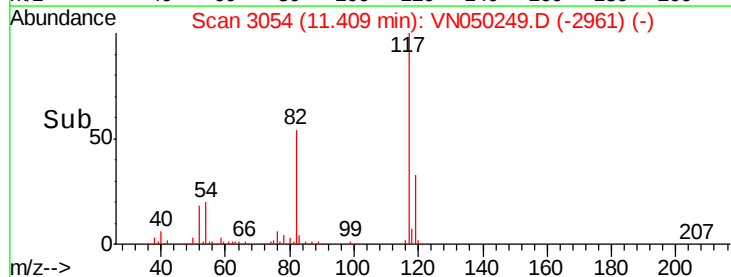
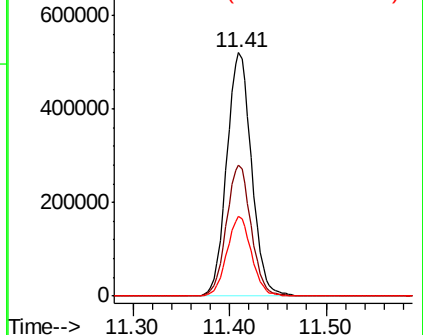
119 32.6 26.1 39.1

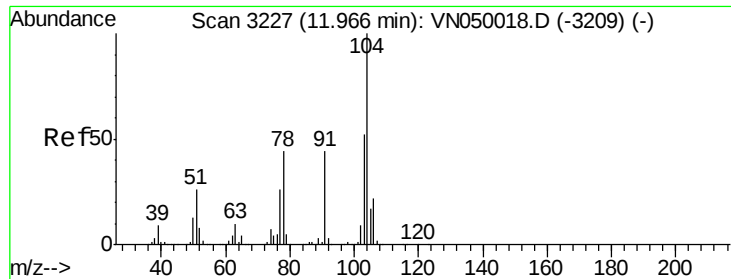


Abundance Ion 116.90 (116.60 to 117.60): VN050018.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050018.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050018.D (-3038) (-)

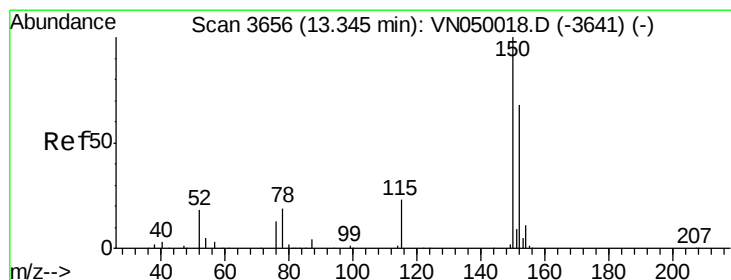
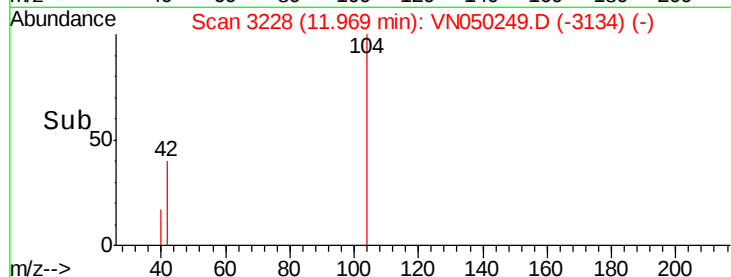
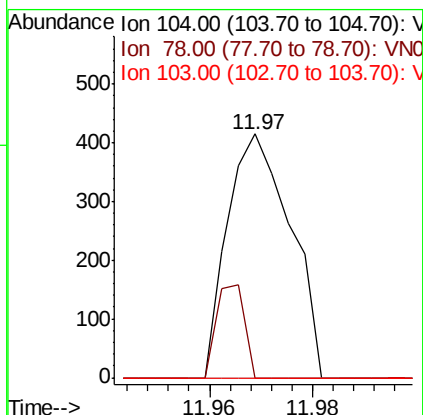
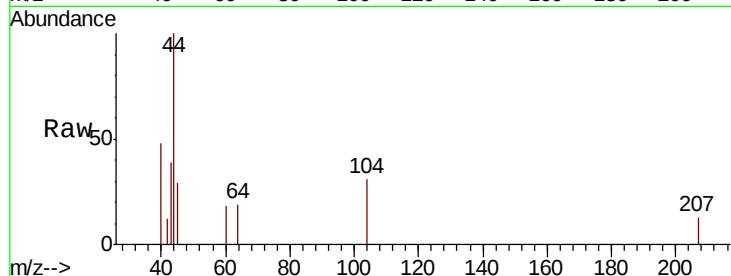




#70
Stvrene
Concen: 0.94 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.00 min
Lab File: VN050249.D
Acq: 1 Aug 2018 15:10

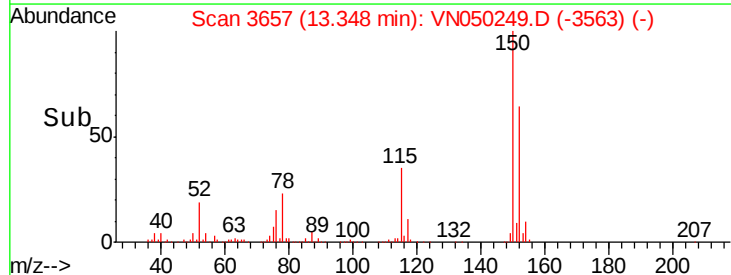
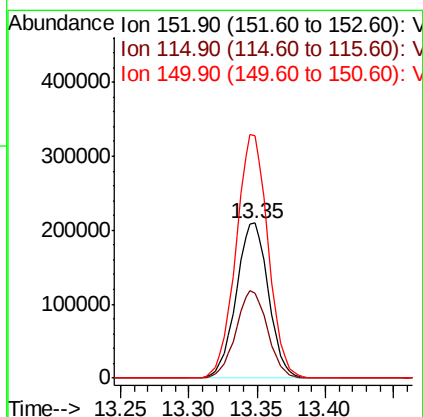
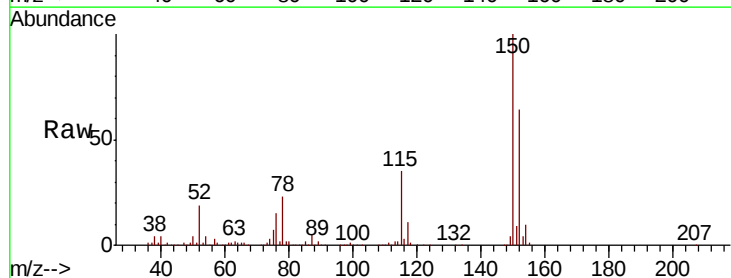
Instrument :
MSVOA_N
ClientSampled :

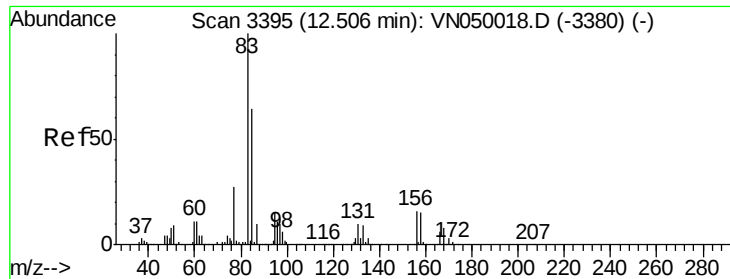
Tot Ion:104 Resp: 349
Ion Ratio Lower Upper
104 100
78 17.2 39.3 58.9#
103 0.0 45.0 67.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3657
Delta R.T. 0.00 min
Lab File: VN050249.D
Acq: 1 Aug 2018 15:10

Tgt Ion:152 Resp: 343292
Ion Ratio Lower Upper
152 100
115 55.2 27.8 83.3
150 156.2 0.0 348.6





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3365

Delta R.T. -0.10 min

Lab File: VN050249.D

Acq: 1 Aug 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

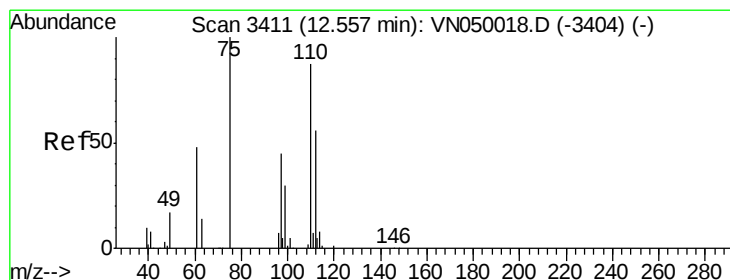
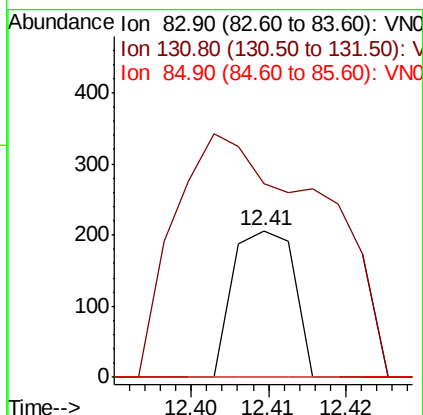
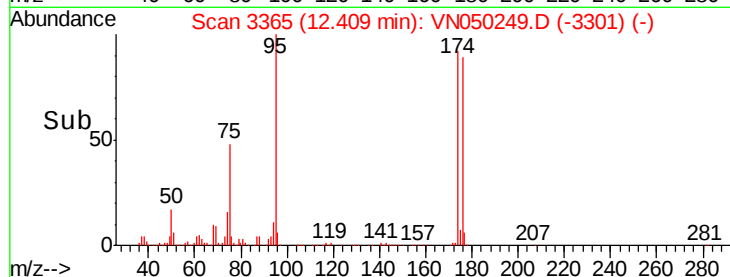
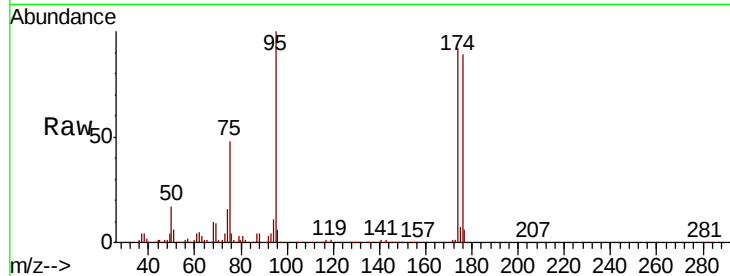
Tot Ion: 83 Resp: 113

Ion Ratio Lower Upper

83 100

131 401.8 5.1 15.3#

85 0.0 32.3 96.8#



#76

1,2,3-Trichloropropane

Concen: 31.35 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050249.D

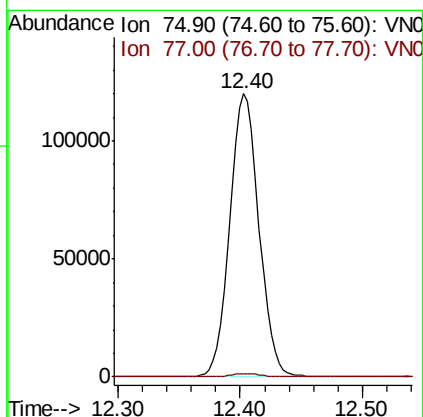
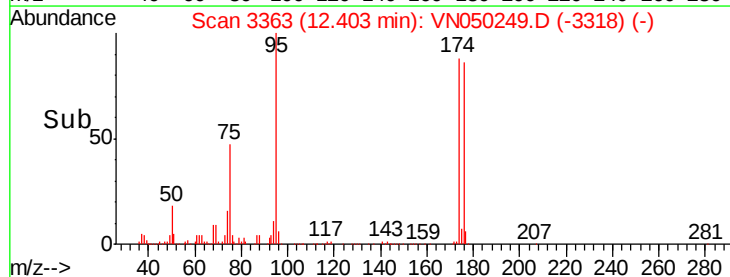
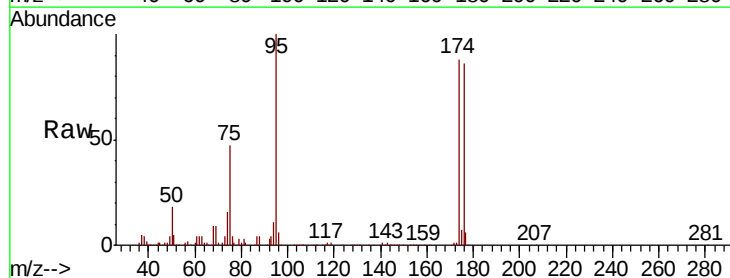
Acq: 1 Aug 2018 15:10

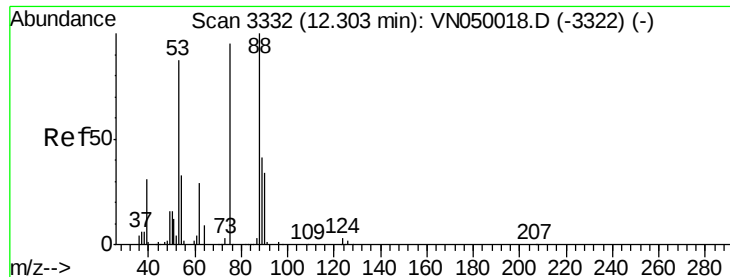
Tgt Ion: 75 Resp: 200017

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 99.44 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050249.D

Acq: 1 Aug 2018 15:10

Instrument :

MSVOA_N

ClientSampleId :

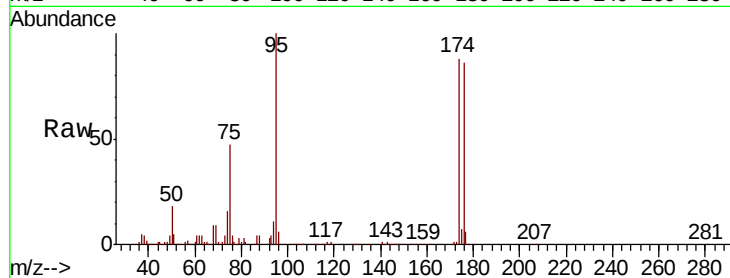
Tot Ion: 75 Resp: 200017

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

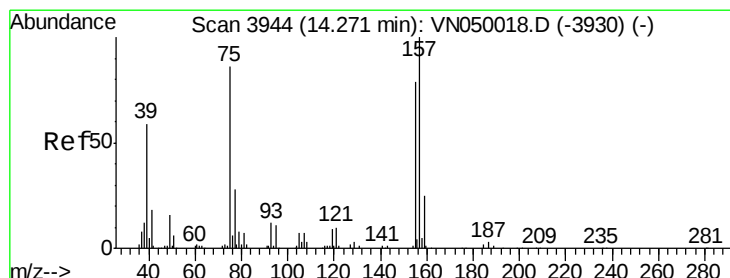
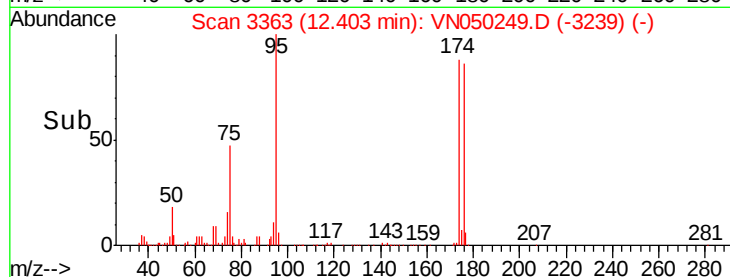
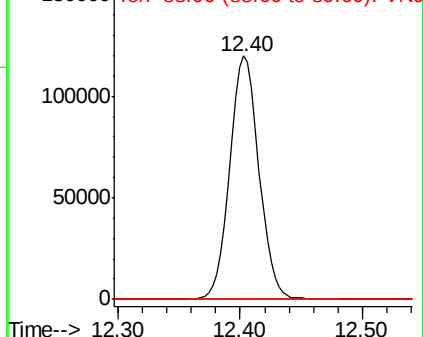
89 0.0 36.0 54.0#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3940

Delta R.T. -0.01 min

Lab File: VN050249.D

Acq: 1 Aug 2018 15:10

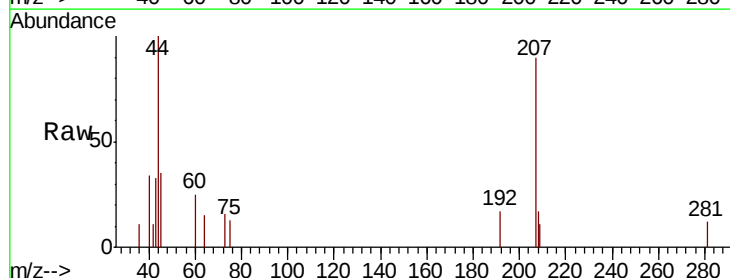
Tgt Ion: 75 Resp: 136

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

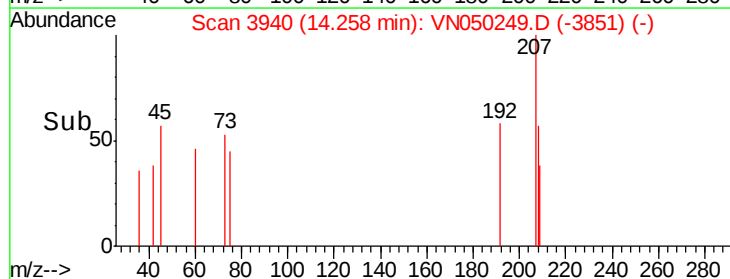
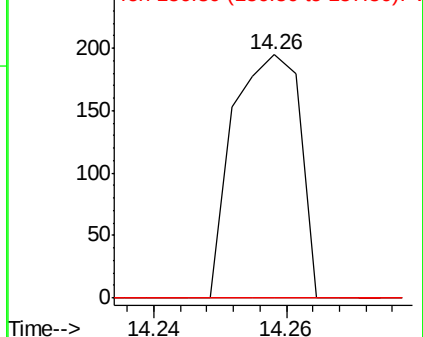
157 0.0 57.2 171.6#

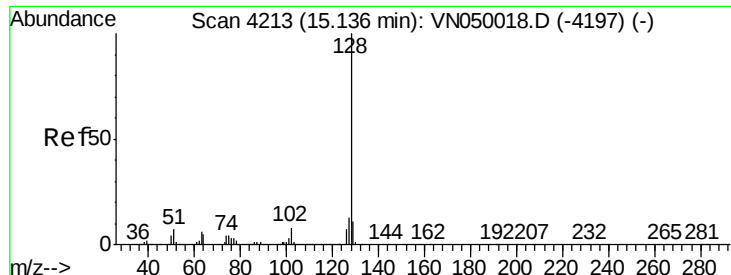


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

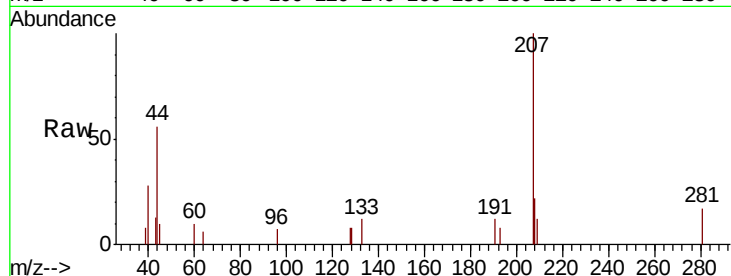




#95
Naphthalene
Concen: 4.43 ug/l
RT: 15.14 min Scan# 4215
Delta R.T. 0.01 min
Lab File: VN050249.D
Acq: 1 Aug 2018 15:10

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 299
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.8 13.2#



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

