

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082918\
 Data File : VN050947.D
 Acq On : 29 Aug 2018 13:39
 Operator : MD\SY
 Sample : PB112452ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112452ZHE#03

Quant Time: Aug 30 01:01:38 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	602055	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	994471	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	834431	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	291424	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	393992	54.36	ug/l	0.00
Spiked Amount			Recovery	=	108.72%	
35) Dibromofluoromethane	7.60	113	375330	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
50) Toluene-d8	10.09	98	1332096	45.03	ug/l	0.00
Spiked Amount			Recovery	=	90.06%	
62) 4-Bromofluorobenzene	12.40	95	363427	36.97	ug/l	0.00
Spiked Amount			Recovery	=	73.94%	

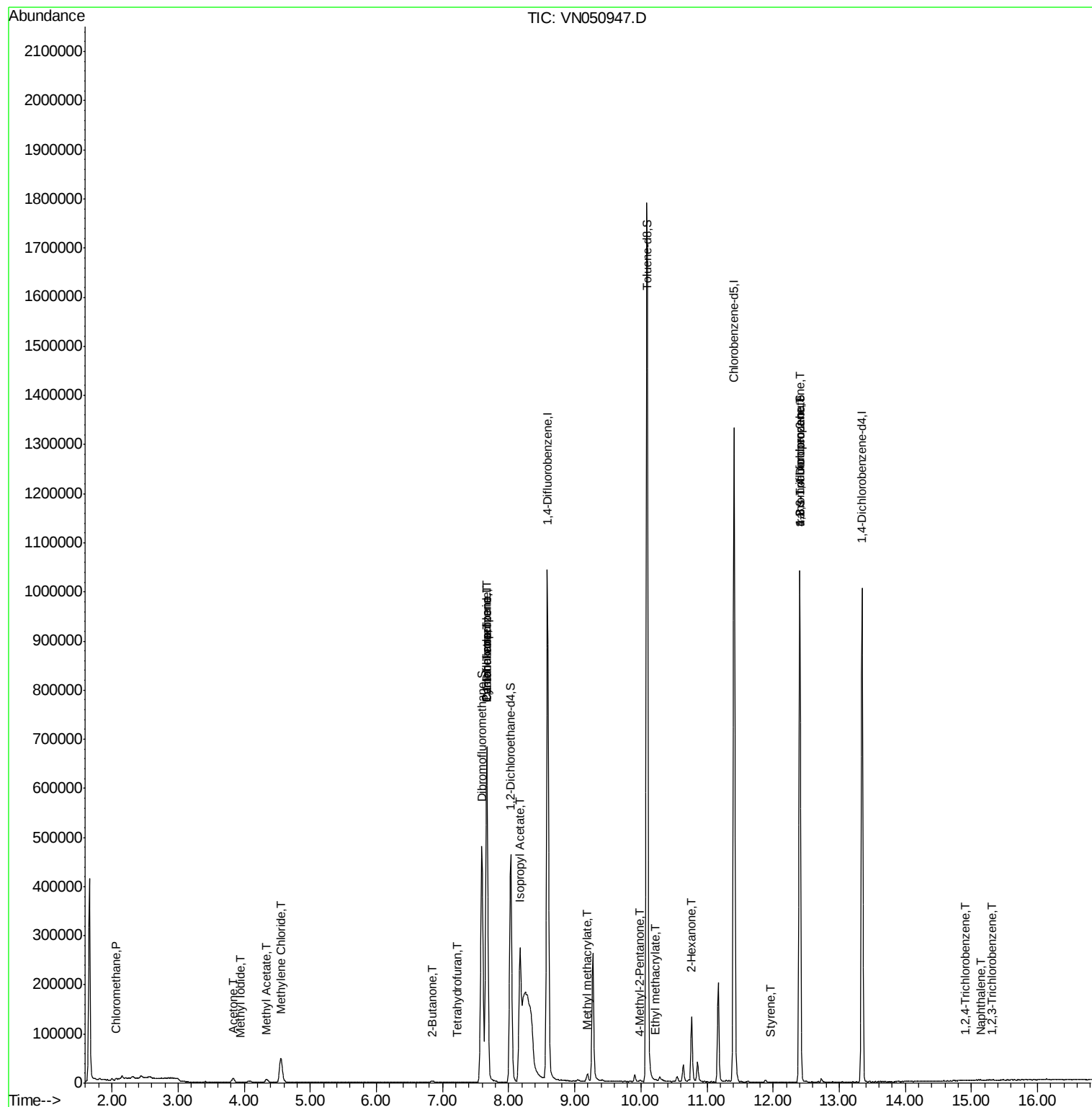
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2096	0.21	ug/l	89
5) Bromomethane	2.57	94	2015	Below Cal		81
10) Methyl Iodide	3.95	142	694	6.43	ug/l #	43
16) Acetone	3.82	43	14721	1.56	ug/l	97
18) Methyl Acetate	4.34	43	13245	1.94	ug/l	96
20) Methylene Chloride	4.55	84	40253	4.93	ug/l	98
25) 2-Butanone	6.85	43	1430	0.49	ug/l	97
29) Tetrahydrofuran	7.22	42	875	0.52	ug/l #	57
31) Cyclohexane	7.67	56	9754	1.25	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	39365	3.35	ug/l #	49
38) Carbon Tetrachloride	7.67	117	52912	4.46	ug/l #	17
43) Isopropyl Acetate	8.17	43	349345	30.14	ug/l	92
48) Methyl methacrylate	9.18	41	9423	1.60	ug/l #	17
51) 4-Methyl-2-Pentanone	9.98	43	1876	0.27	ug/l	90
56) Ethyl methacrylate	10.23	69	2438	2.58	ug/l #	65
59) 2-Hexanone	10.77	43	17823	3.87	ug/l #	61
70) Styrene	11.97	104	305	1.28	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	12.41	83	146	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	172520	33.80	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	172520	114.26	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	162	4.11	ug/l #	59
95) Naphthalene	15.14	128	612	5.45	ug/l #	75
96) 1,2,3-Trichlorobenzene	15.31	180	65	3.31	ug/l #	24

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

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Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 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: VN050947.D

Acq: 29 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

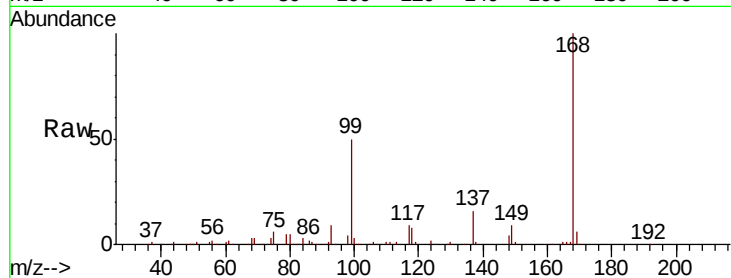
PB112452ZHE#03

Tot Ion:168 Resp: 602055

Ion Ratio Lower Upper

168 100

99 50.1 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

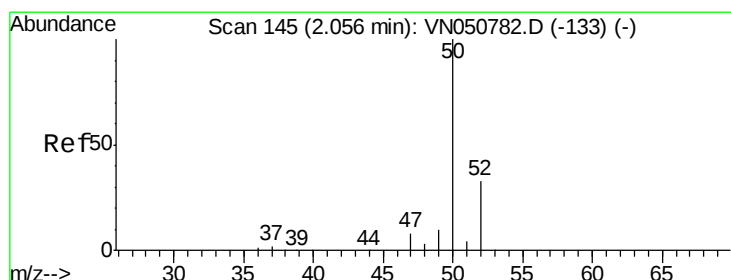
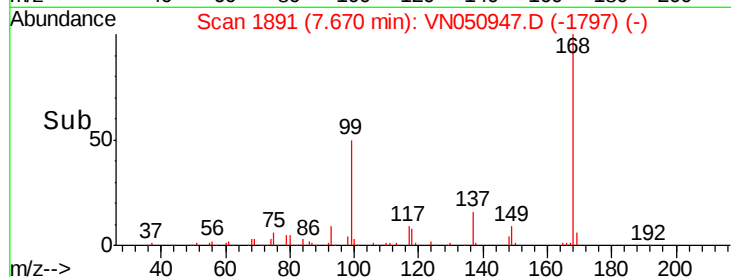
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.21 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050947.D

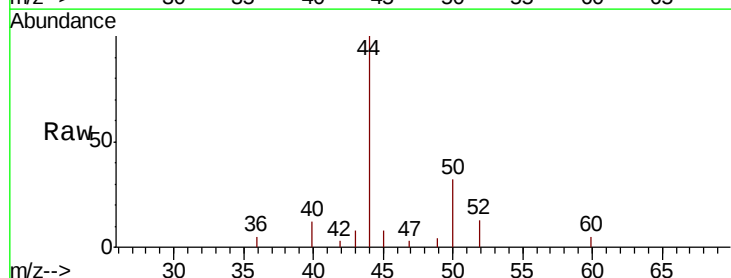
Acq: 29 Aug 2018 13:39

Tgt Ion: 50 Resp: 2096

Ion Ratio Lower Upper

50 100

52 39.4 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2000

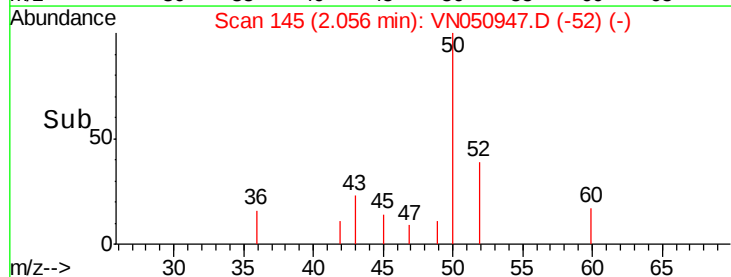
1500

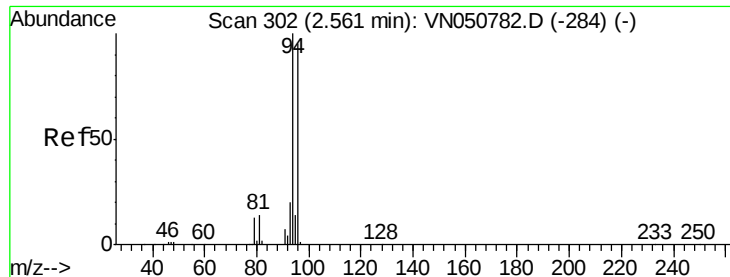
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

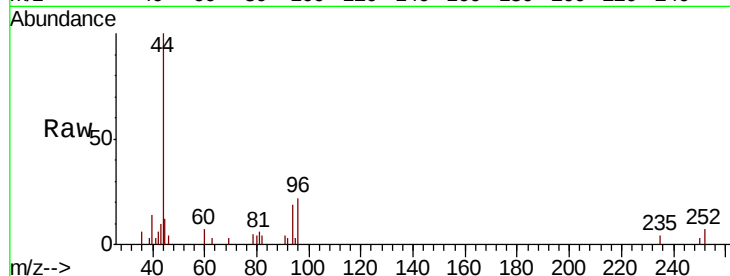
PB112452ZHE#03

Tot Ion: 94 Resp: 2015

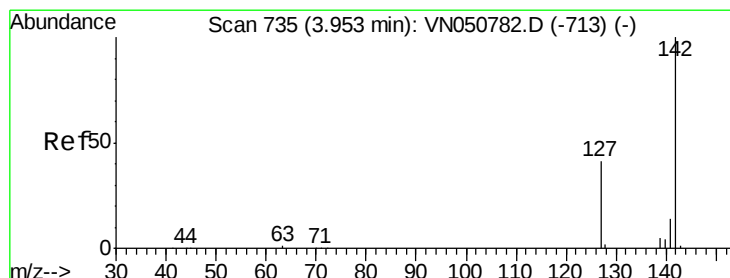
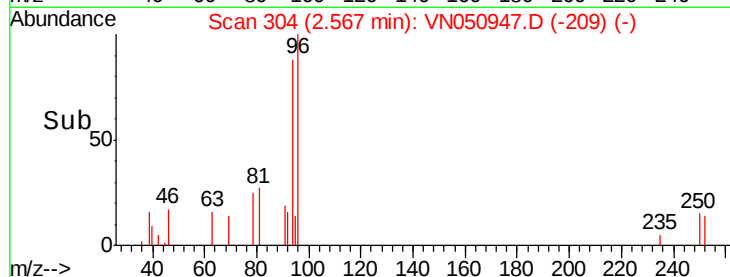
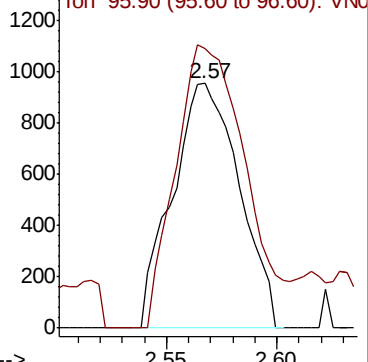
Ion Ratio Lower Upper

94 100

96 114.0 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050947.D (-209) (-)



#10

Methyl Iodide

Concen: 6.43 ug/l

RT: 3.95 min Scan# 733

Delta R.T. -0.01 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

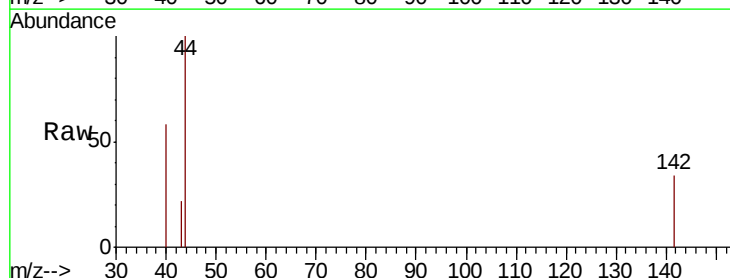
Tgt Ion: 142 Resp: 694

Ion Ratio Lower Upper

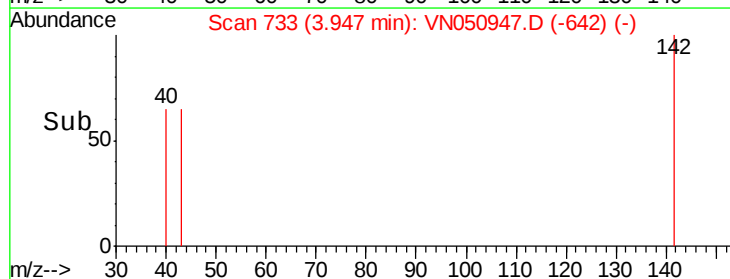
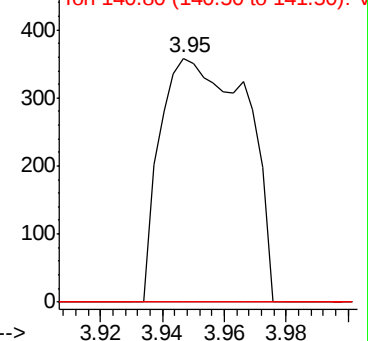
142 100

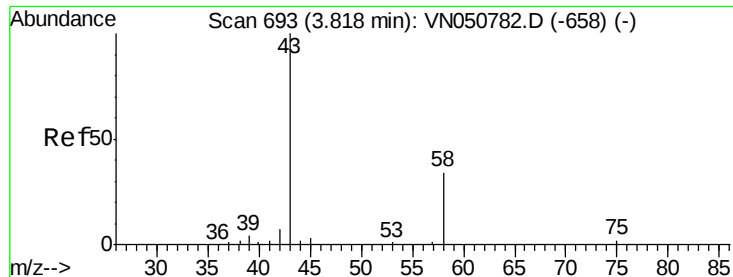
127 0.0 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050947.D (-642) (-)





#16

Acetone

Concen: 1.56 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

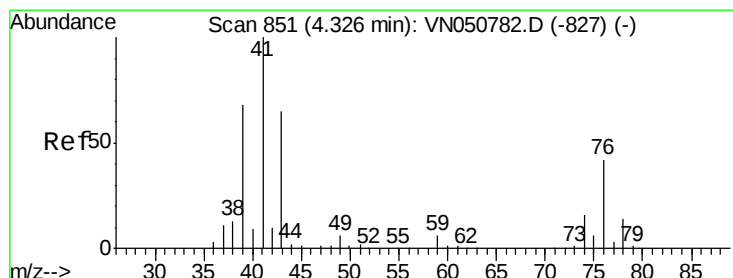
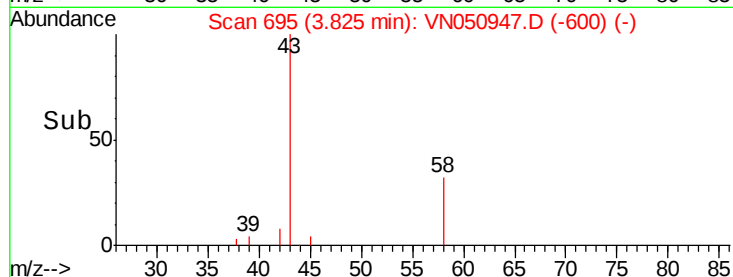
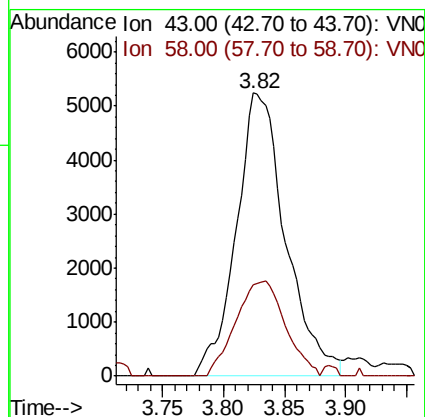
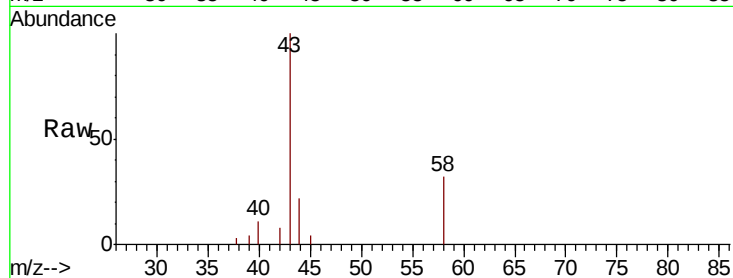
PB112452ZHE#03

Tot Ion: 43 Resp: 14721

Ion Ratio Lower Upper

43 100

58 32.3 27.2 40.8



#18

Methyl Acetate

Concen: 1.94 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050947.D

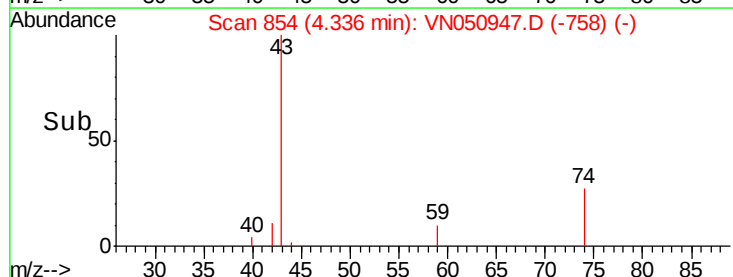
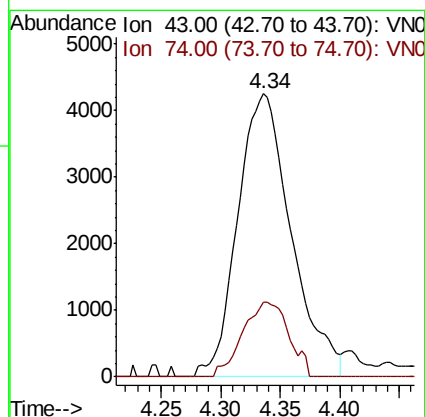
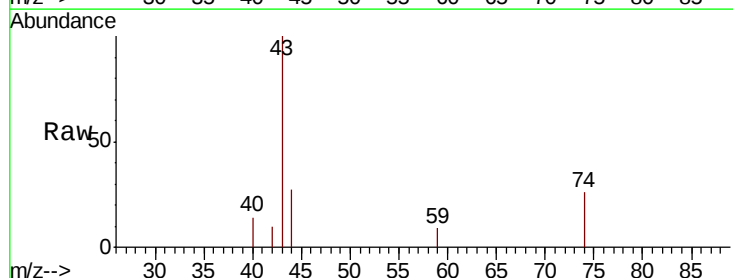
Acq: 29 Aug 2018 13:39

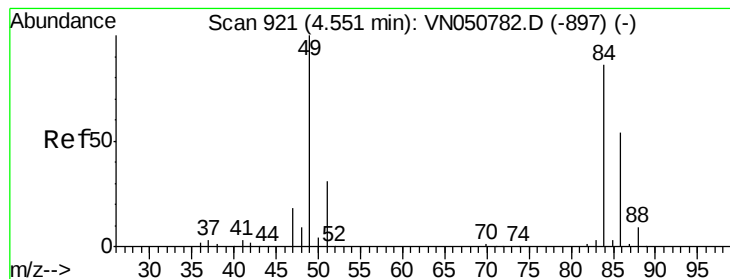
Tgt Ion: 43 Resp: 13245

Ion Ratio Lower Upper

43 100

74 22.7 19.8 29.8





#20

Methvlene Chloride

Concen: 4.93 ug/l

RT: 4.55 min Scan# 921

Delta R.T. -0.00 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

PB112452ZHE#03

Tot Ion: 84 Resp: 40253

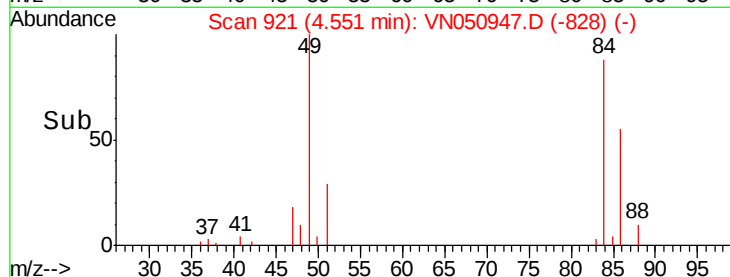
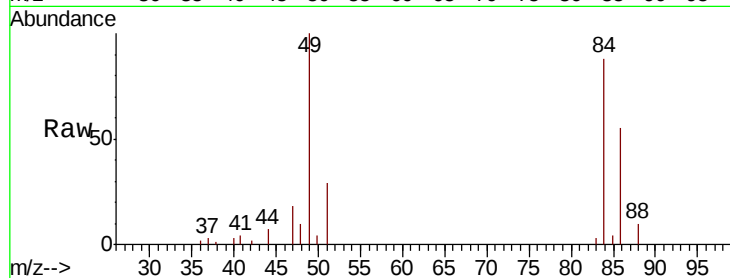
Ion Ratio Lower Upper

84 100

49 114.2 93.2 139.8

51 32.8 29.0 43.6

86 62.7 49.8 74.8

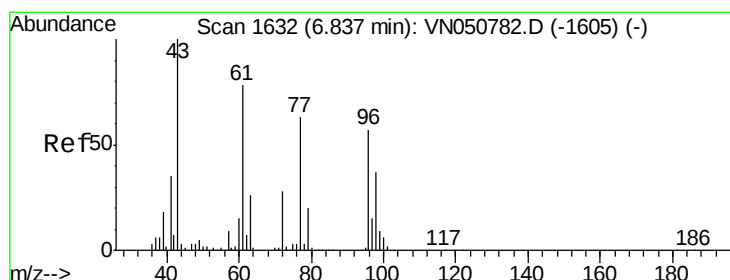
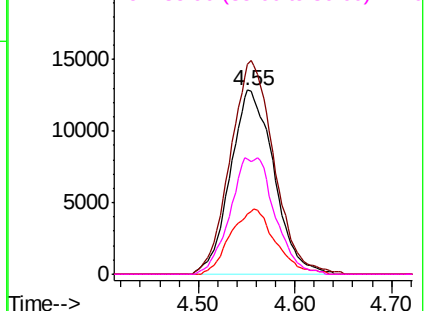


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.49 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. 0.02 min

Lab File: VN050947.D

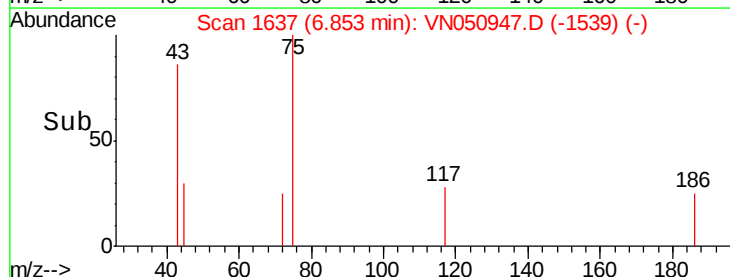
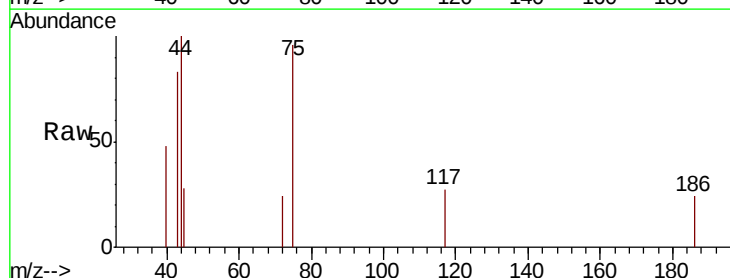
Acq: 29 Aug 2018 13:39

Tgt Ion: 43 Resp: 1430

Ion Ratio Lower Upper

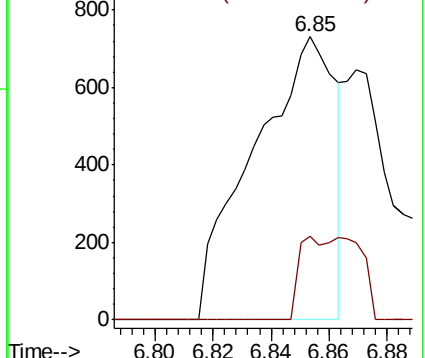
43 100

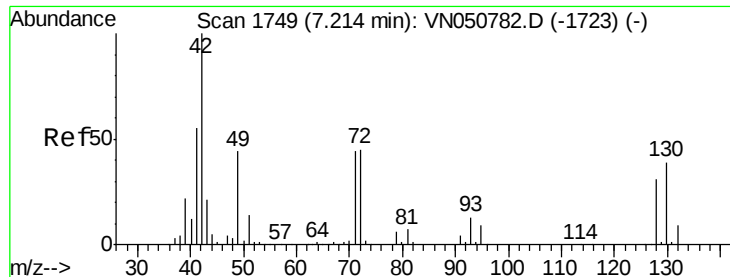
72 29.4 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.52 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

PB112452ZHE#03

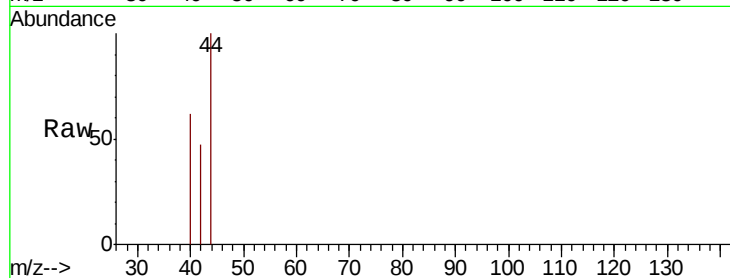
Tot Ion: 42 Resp: 875

Ion Ratio Lower Upper

42 100

72 19.1 35.5 53.3#

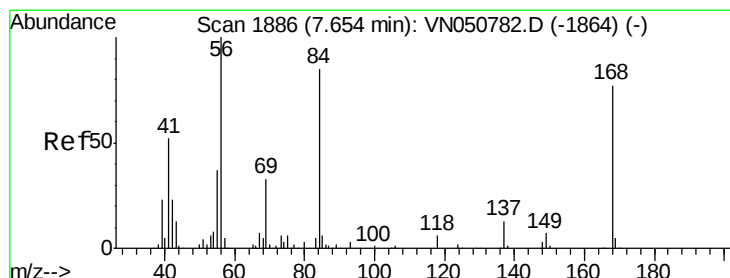
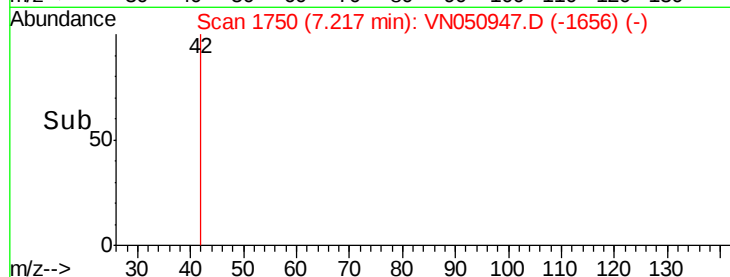
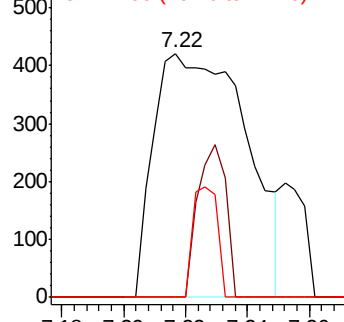
71 12.1 33.7 50.5#



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



#31

Cyclohexane

Concen: 1.25 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

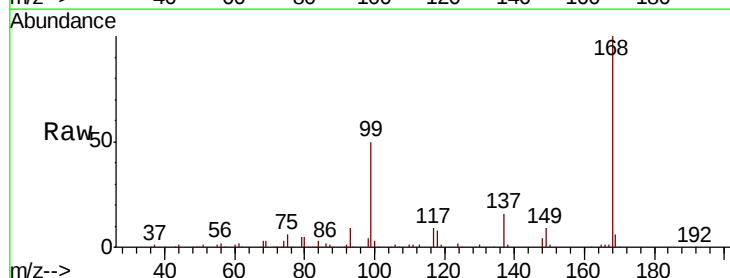
Tgt Ion: 56 Resp: 9754

Ion Ratio Lower Upper

56 100

69 198.4 26.2 39.4#

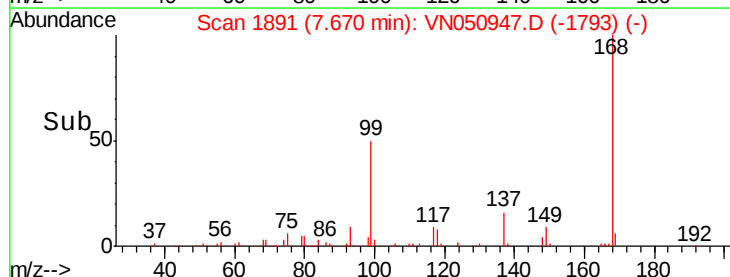
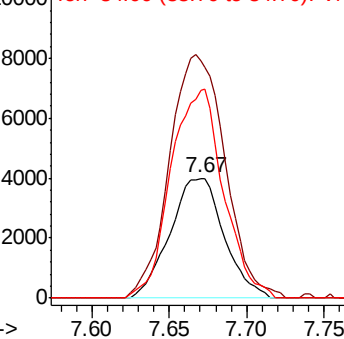
84 173.8 68.3 102.5#

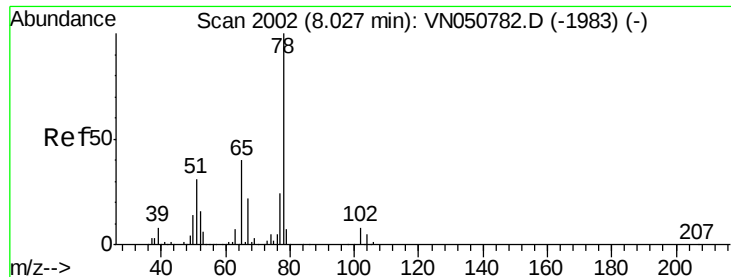


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

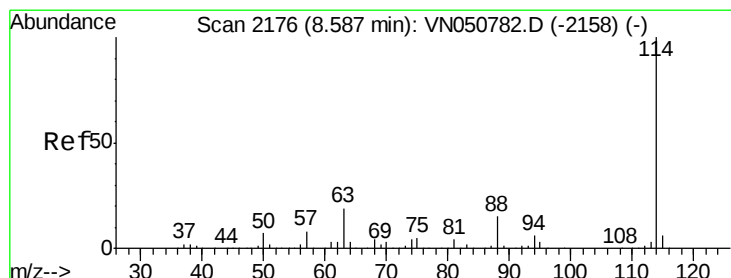
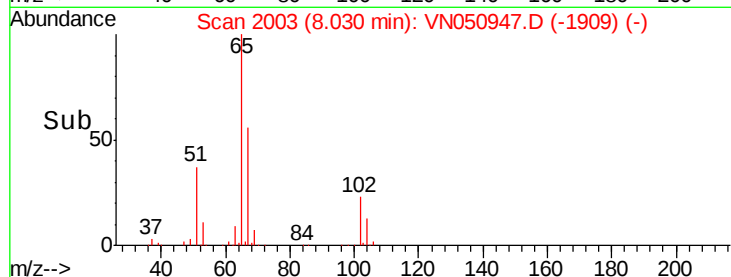
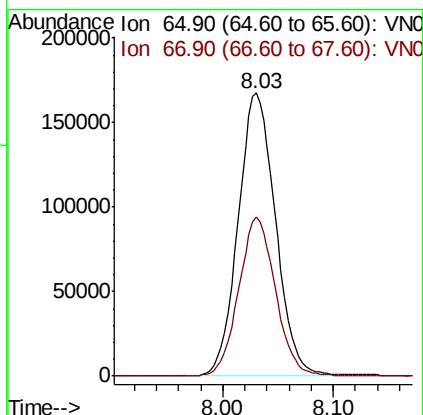
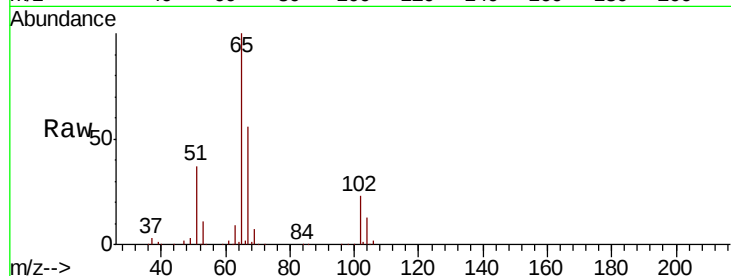




#33
 1,2-Dichloroethane-d4
 Concen: 54.36 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050947.D
 Acq: 29 Aug 2018 13:39

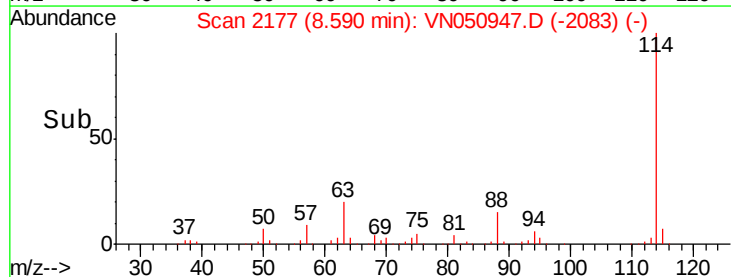
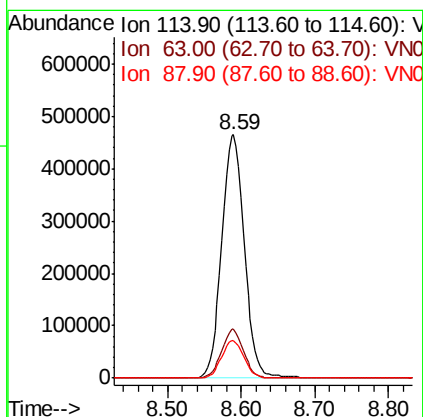
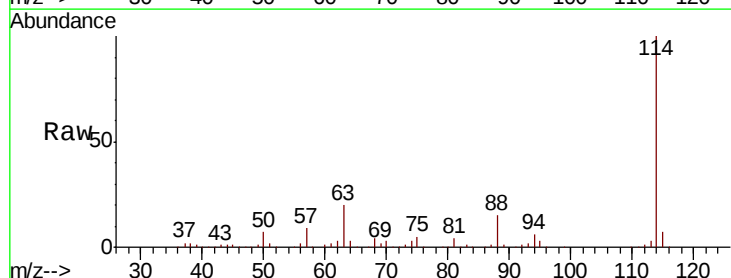
Instrument :
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 PB112452ZHE#03

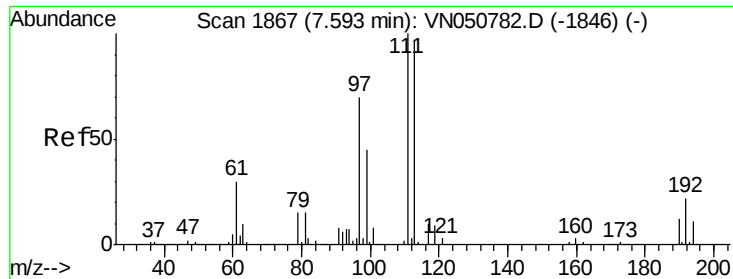
Tot Ion: 65 Resp: 393992
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050947.D
 Acq: 29 Aug 2018 13:39

Tgt Ion: 114 Resp: 994471
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 38.6
 88 15.2 0.0 30.6

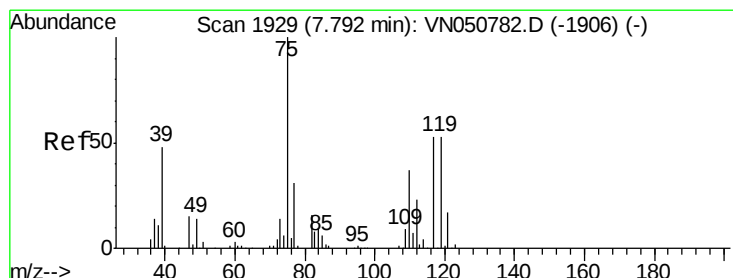
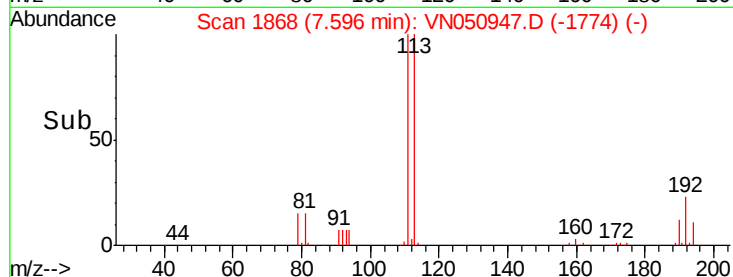
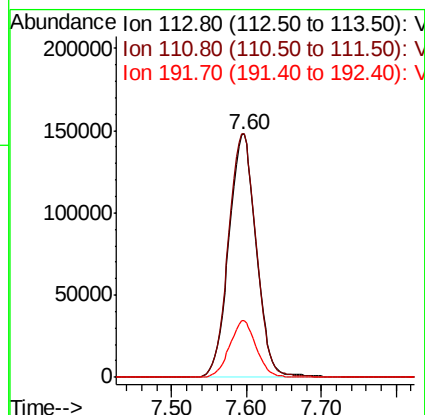
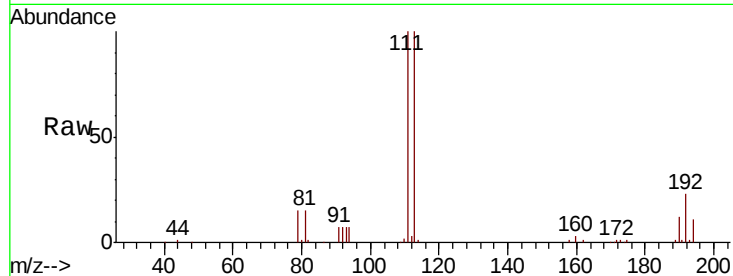




#35
 Dibromofluoromethane
 Concen: 47.44 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN050947.D
 Acq: 29 Aug 2018 13:39

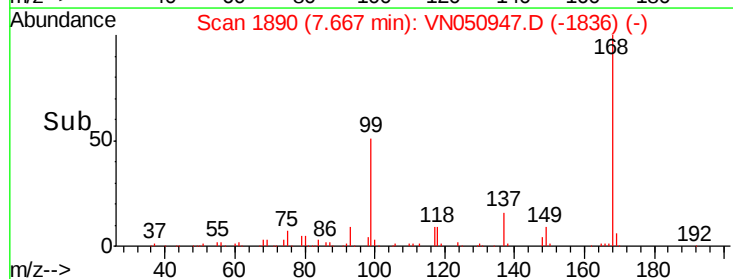
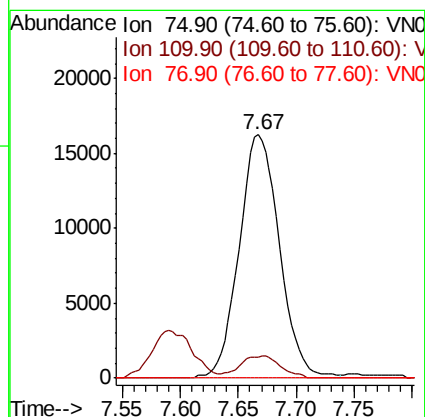
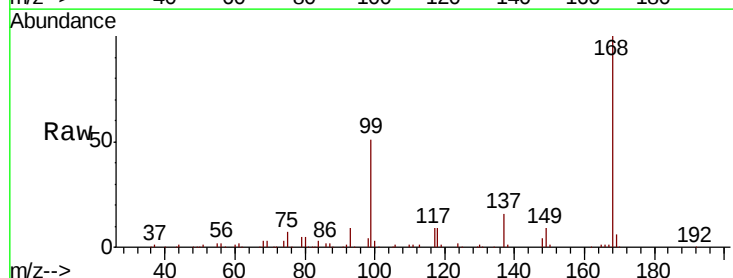
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112452ZHE#03

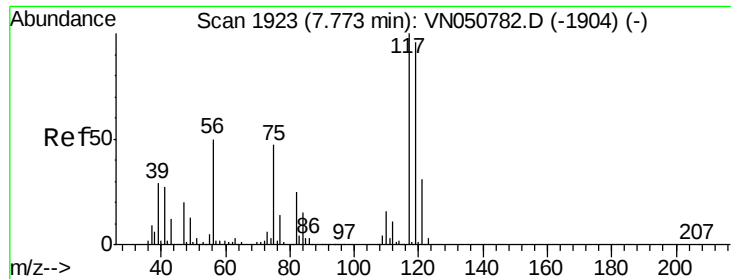
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.6	123.8
192	22.6	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.35 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050947.D
 Acq: 29 Aug 2018 13:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.4#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 4.46 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

PB112452ZHE#03

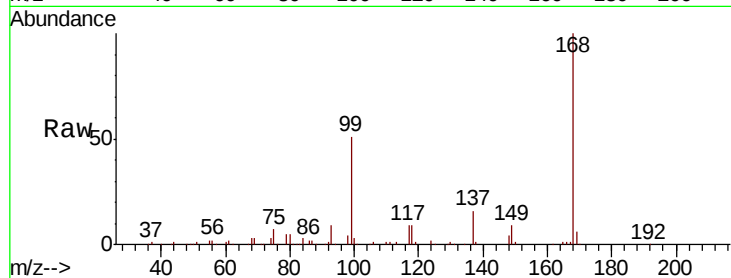
Tot Ion:117 Resp: 52912

Ion Ratio Lower Upper

117 100

119 5.7 76.3 114.5#

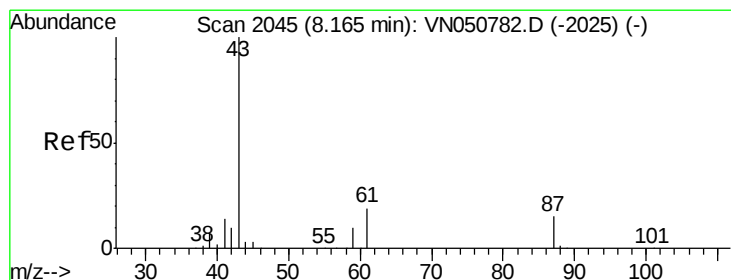
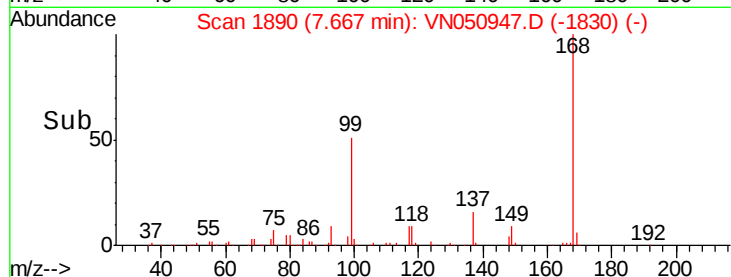
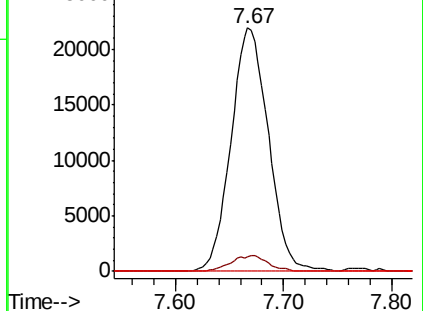
121 0.0 24.6 36.8#



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



#43

Isopropyl Acetate

Concen: 30.14 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.01 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

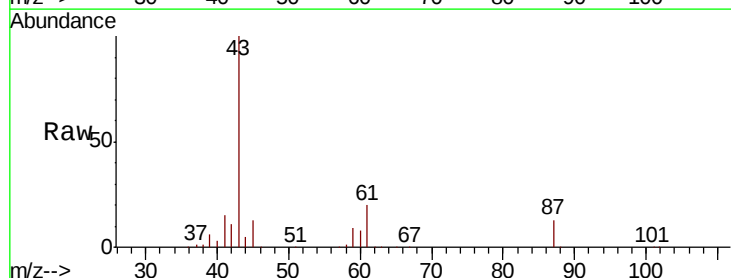
Tgt Ion: 43 Resp: 349345

Ion Ratio Lower Upper

43 100

61 17.9 17.5 26.3

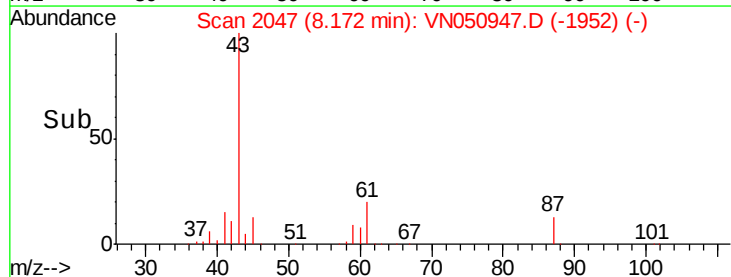
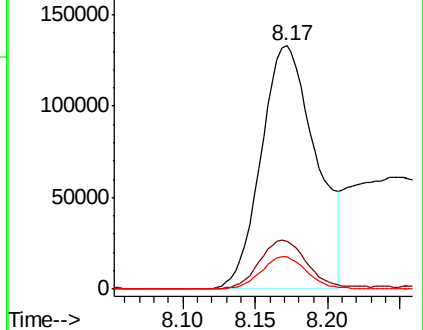
87 11.3 11.3 16.9

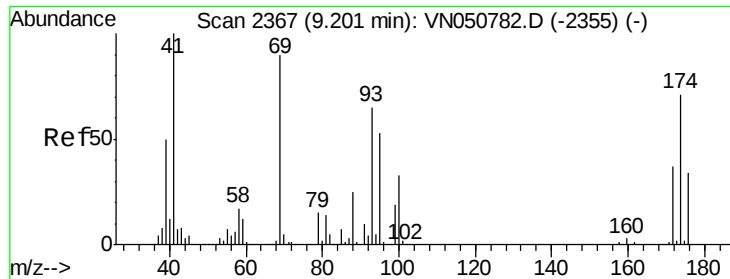


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

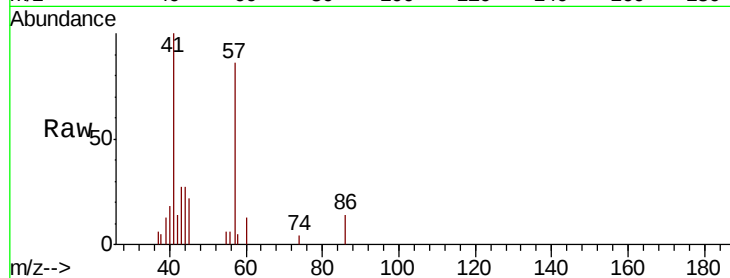




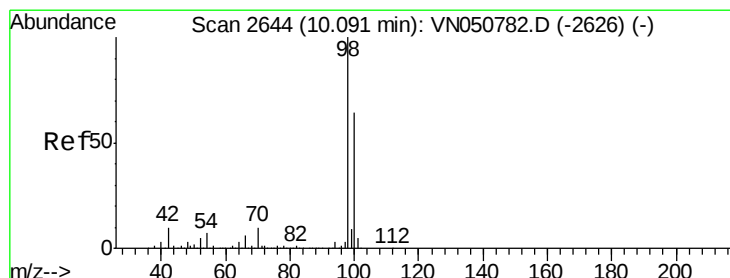
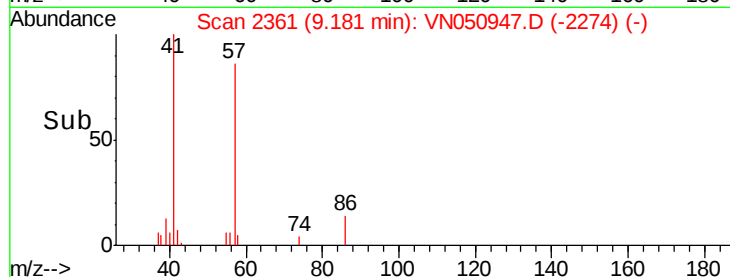
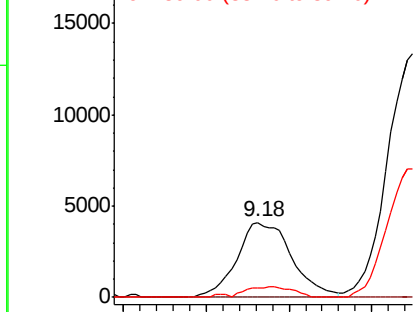
#48
Methvl methacrylate
Concen: 1.60 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050947.D
Acq: 29 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
PB112452ZHE#03

Tot Ion: 41 Resp: 9423
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 12.2 42.2 63.2#

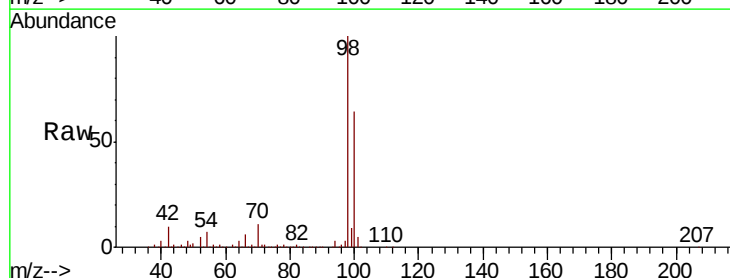


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

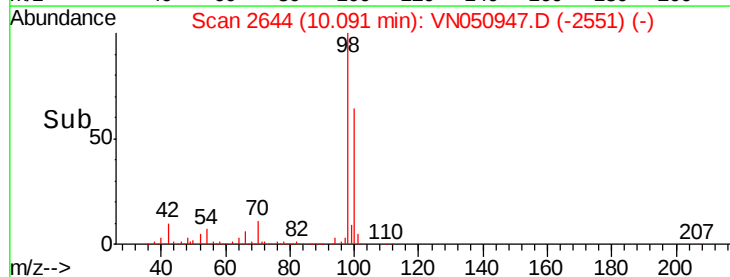
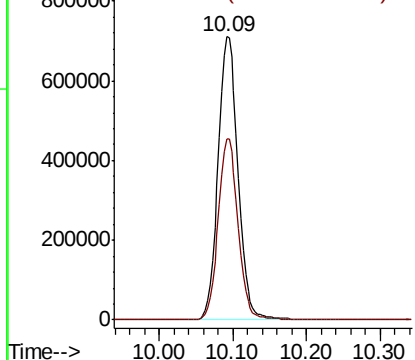


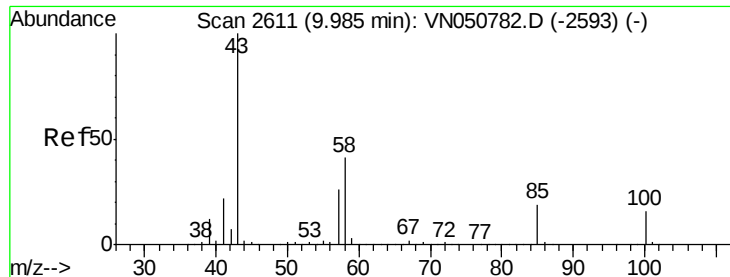
#50
Toluene-d8
Concen: 45.03 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050947.D
Acq: 29 Aug 2018 13:39

Tgt Ion: 98 Resp: 1332096
Ion Ratio Lower Upper
98 100
100 63.8 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VNC
Ion 100.00 (99.70 to 100.70): VNC





#51

4-Methyl-2-Pentanone

Concen: 0.27 ug/l

RT: 9.98 min Scan# 2610

Delta R.T. -0.00 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

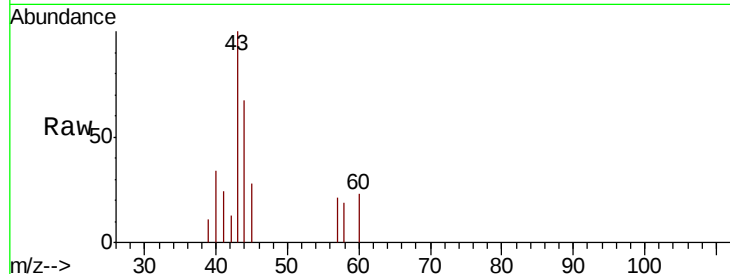
PB112452ZHE#03

Tot Ion: 43 Resp: 1876

Ion Ratio Lower Upper

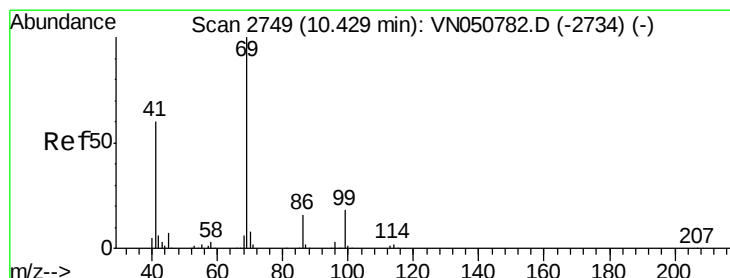
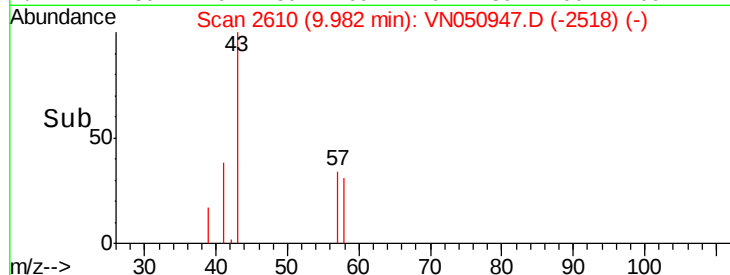
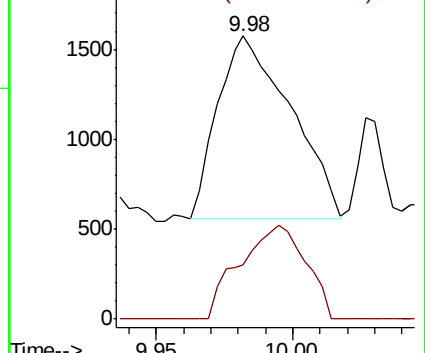
43 100

58 46.6 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#56

Ethyl methacrylate

Concen: 2.58 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

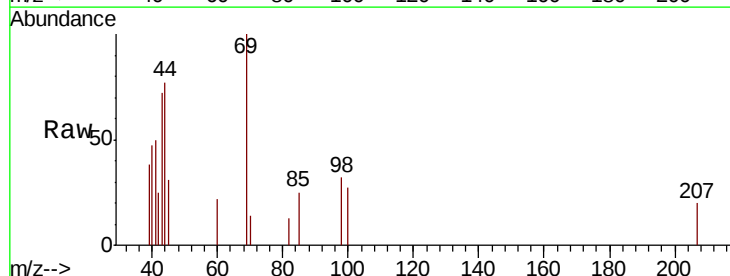
Tgt Ion: 69 Resp: 2438

Ion Ratio Lower Upper

69 100

41 20.7 48.3 72.5#

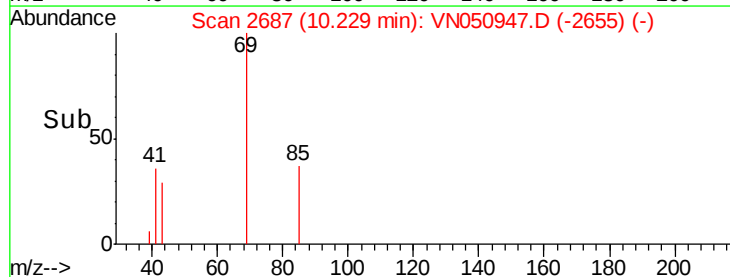
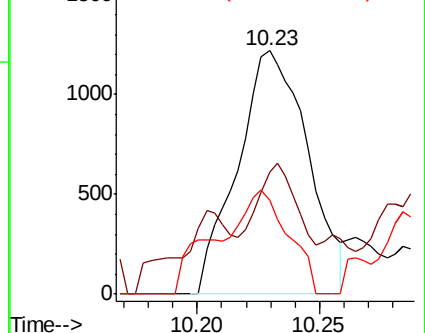
39 30.7 24.0 36.0

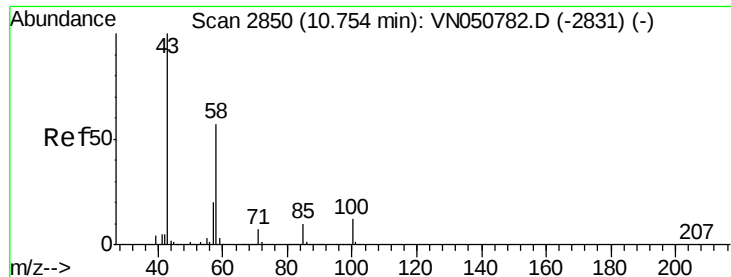


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#59

2-Hexanone

Concen: 3.87 ug/l

RT: 10.77 min Scan# 2855

Delta R.T. 0.02 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

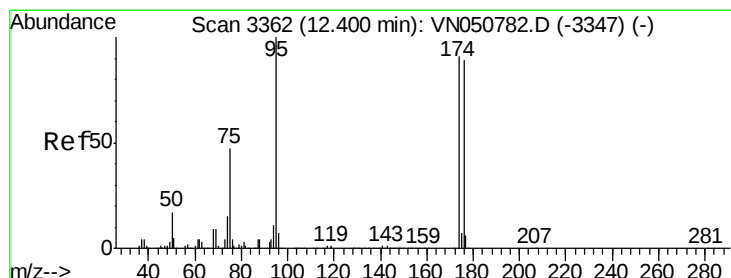
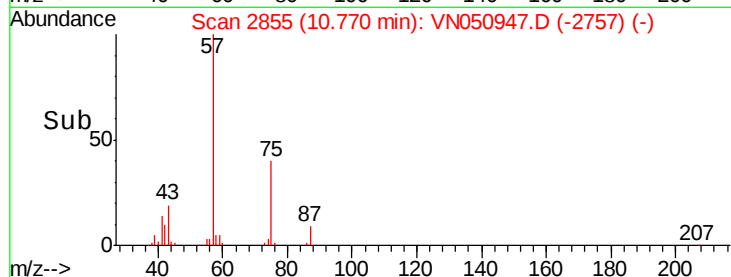
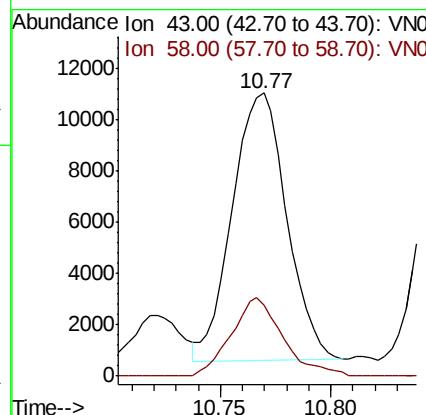
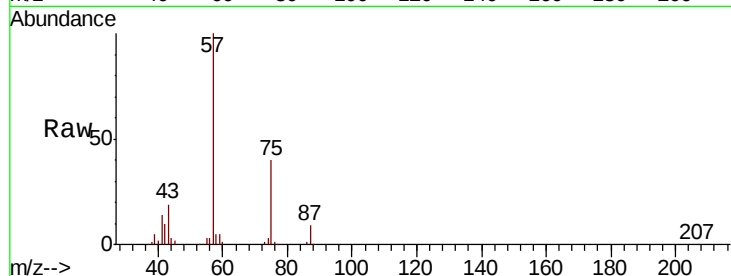
PB112452ZHE#03

Tot Ion: 43 Resp: 17823

Ion Ratio Lower Upper

43 100

58 27.9 28.3 85.0#



#62

4-Bromofluorobenzene

Concen: 36.97 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

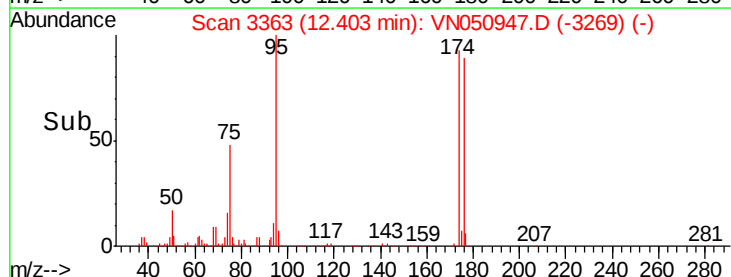
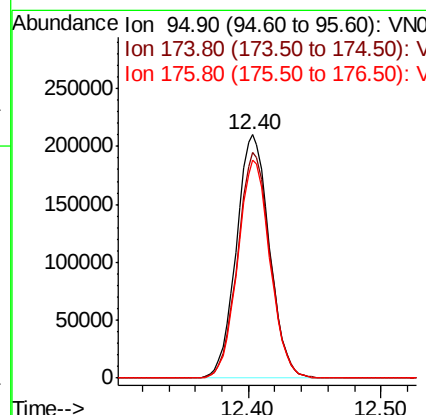
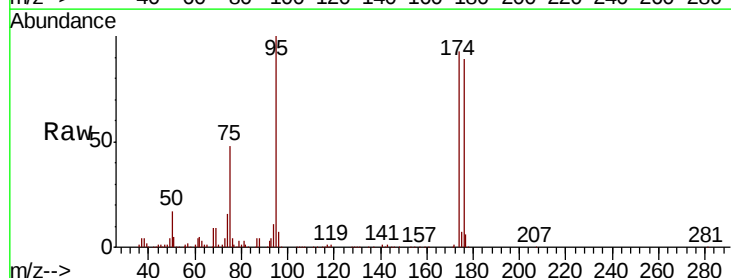
Tgt Ion: 95 Resp: 363427

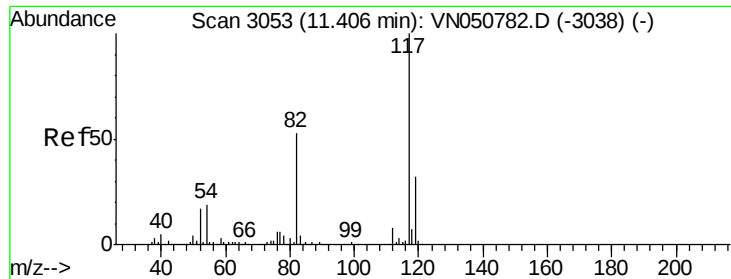
Ion Ratio Lower Upper

95 100

174 91.2 0.0 183.0

176 87.6 0.0 178.8

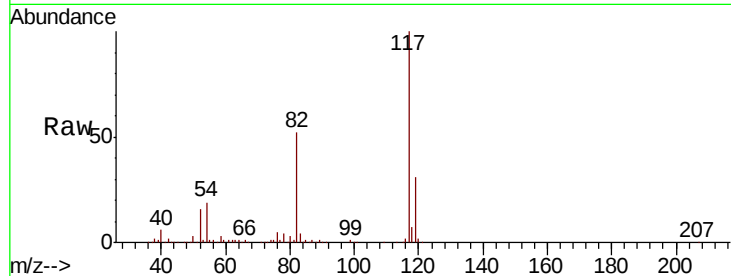




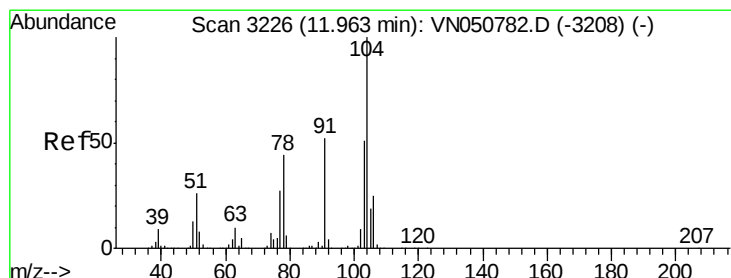
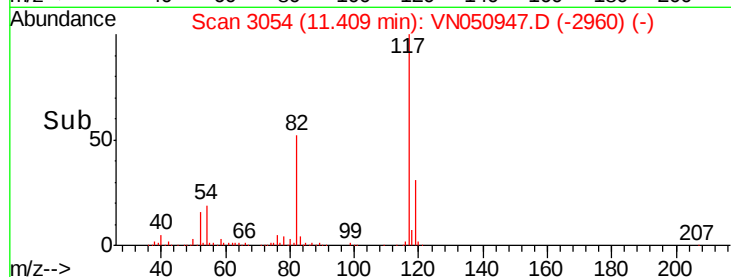
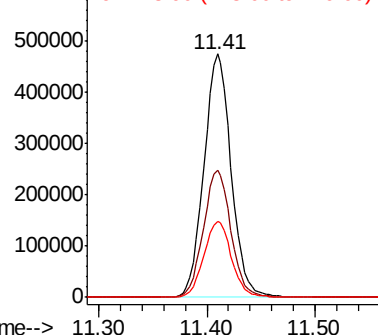
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050947.D
Acq: 29 Aug 2018 13:39

Instrument :
MSVOA_N
ClientSampleId :
PB112452ZHE#03

Tot Ion:117 Resp: 834431
Ion Ratio Lower Upper
117 100
82 52.4 42.6 64.0
119 31.0 25.8 38.6

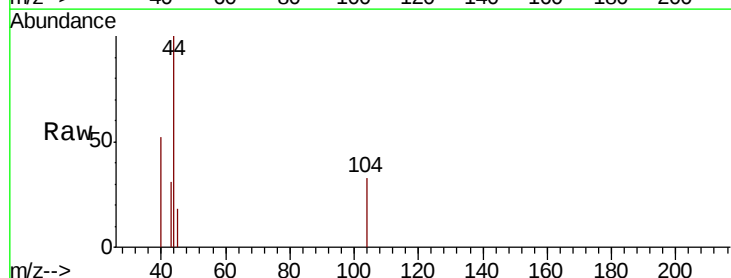


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VNO
Ion 118.90 (118.60 to 119.60): V

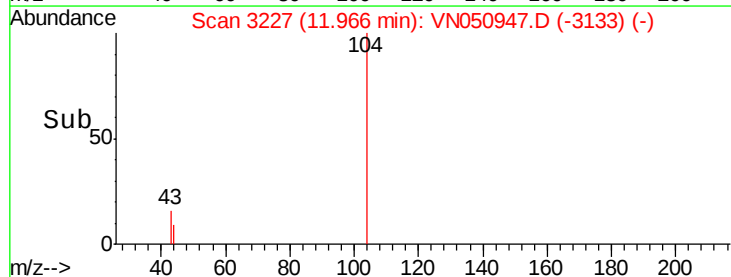
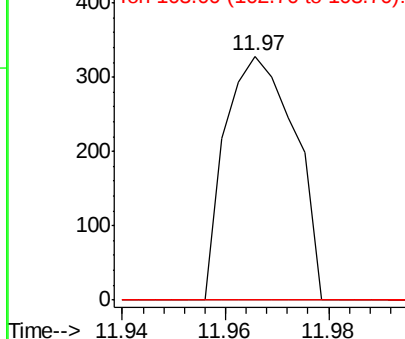


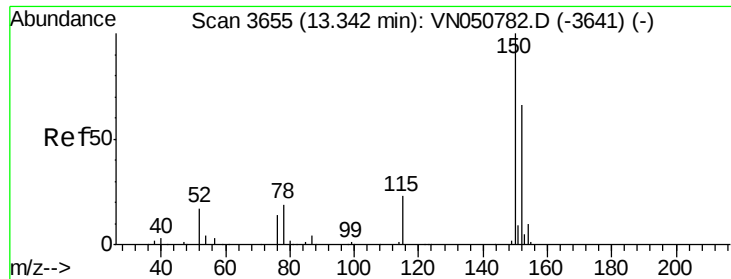
#70
Styrene
Concen: 1.28 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050947.D
Acq: 29 Aug 2018 13:39

Tgt Ion:104 Resp: 305
Ion Ratio Lower Upper
104 100
78 0.0 38.2 57.4#
103 0.0 44.4 66.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VNO
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

PB112452ZHE#03

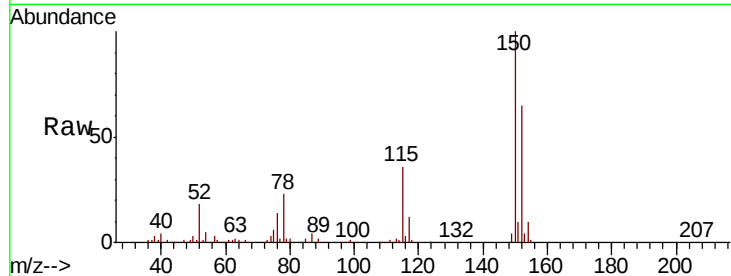
Tot Ion:152 Resp: 291424

Ion Ratio Lower Upper

152 100

115 55.9 27.8 83.4

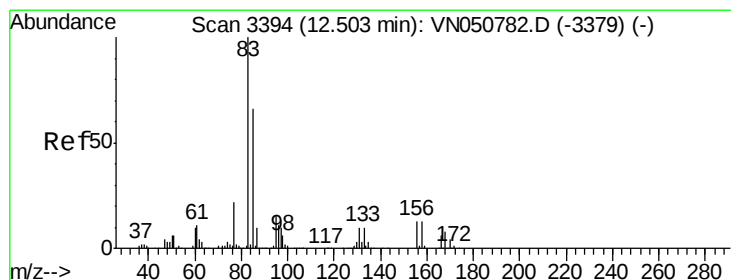
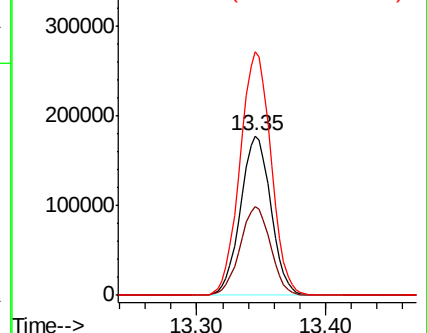
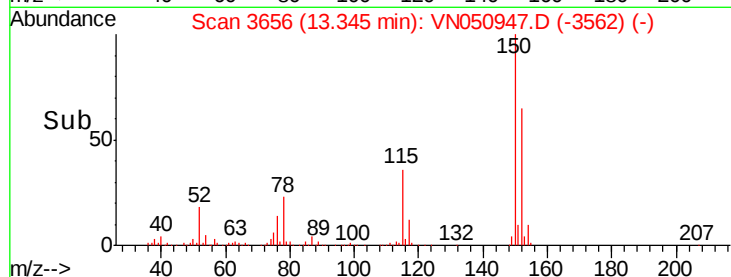
150 156.0 0.0 351.4



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3364

Delta R.T. -0.10 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

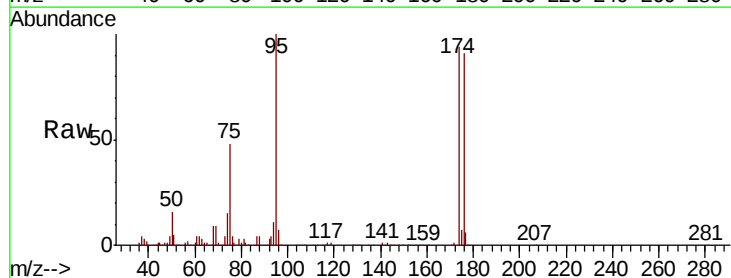
Tgt Ion: 83 Resp: 146

Ion Ratio Lower Upper

83 100

131 295.2 5.3 15.9#

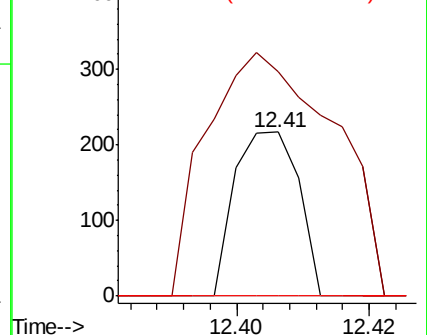
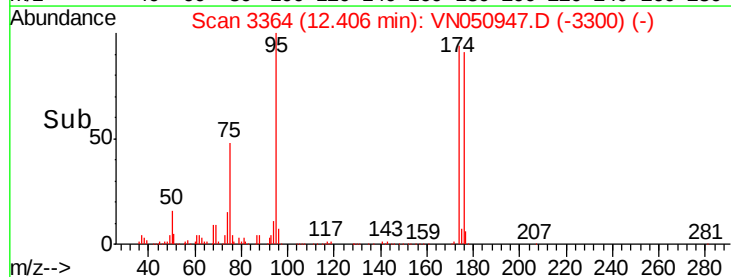
85 0.0 31.9 95.7#

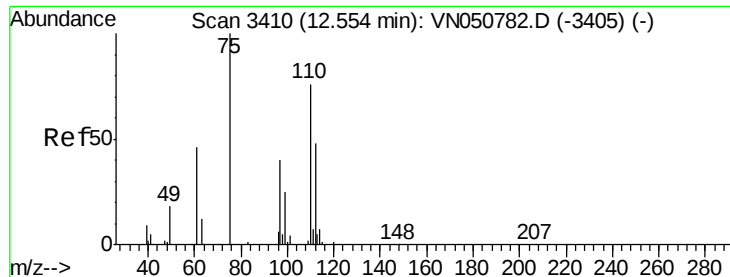


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 33.80 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

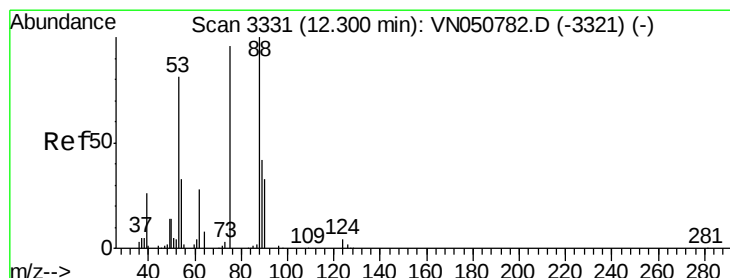
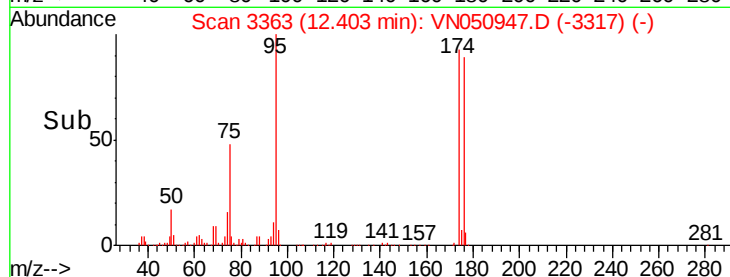
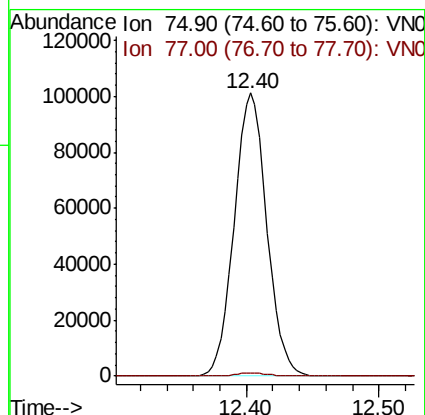
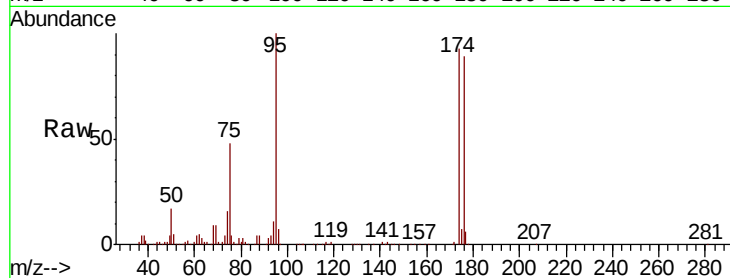
PB112452ZHE#03

Tot Ion: 75 Resp: 172520

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 114.26 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

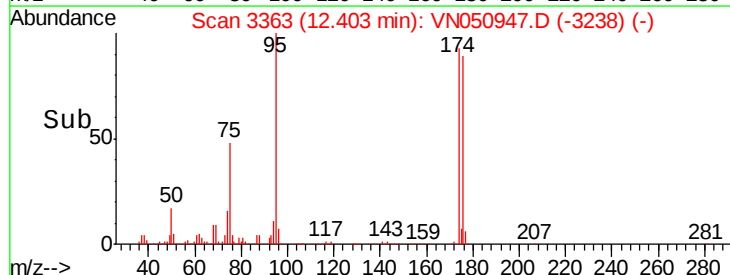
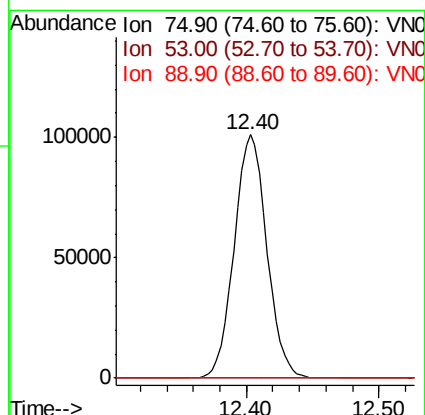
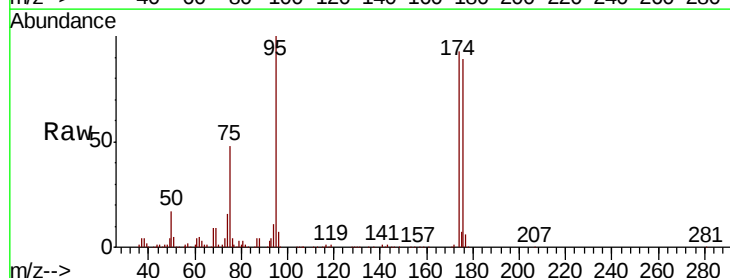
Tgt Ion: 75 Resp: 172520

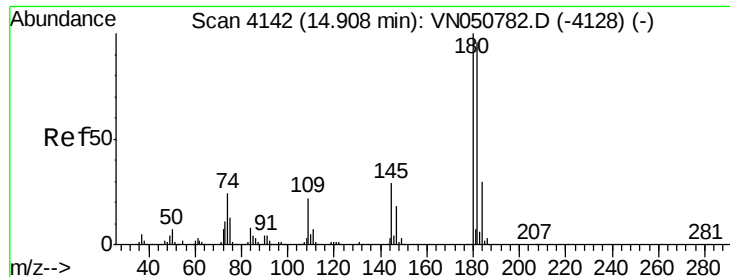
Ion Ratio Lower Upper

75 100

53 0.2 68.9 103.3#

89 0.0 36.1 54.1#

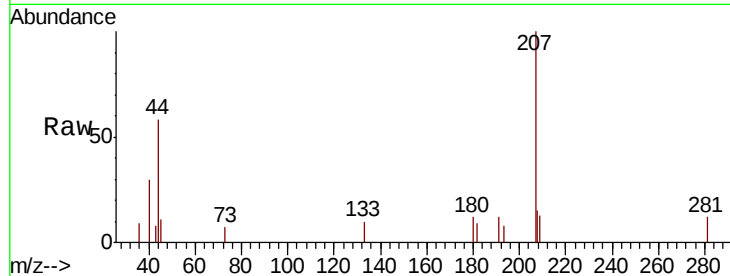




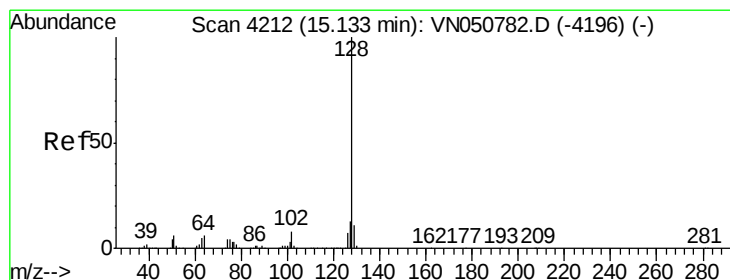
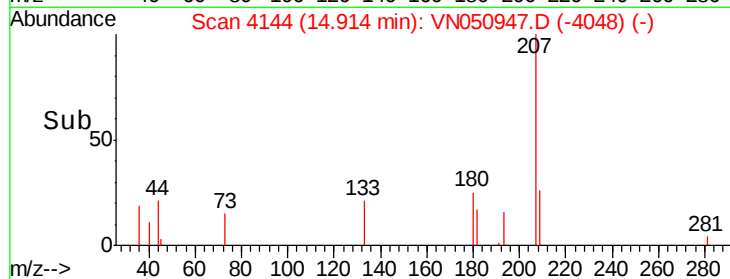
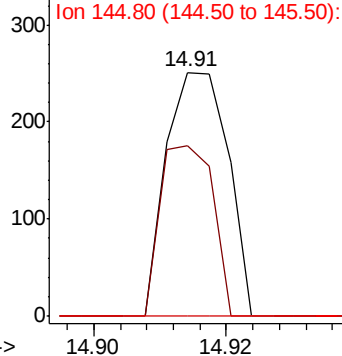
#93
 1,2,4-Trichlorobenzene
 Concen: 4.11 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.01 min
 Lab File: VN050947.D
 Acq: 29 Aug 2018 13:39

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112452ZHE#03

Tot Ion:180 Resp: 162
 Ion Ratio Lower Upper
 180 100
 182 59.9 48.2 144.6
 145 0.0 14.1 42.2#

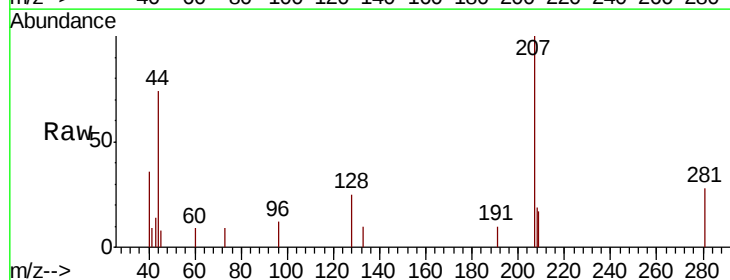


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

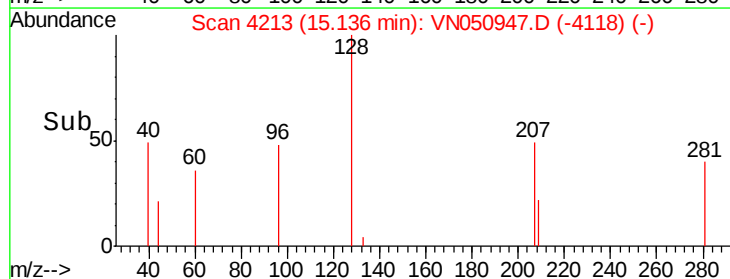
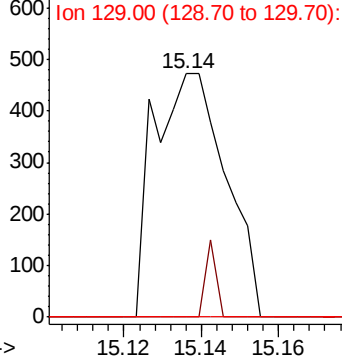


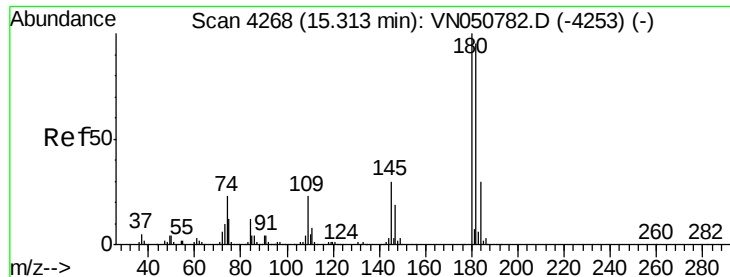
#95
 Naphthalene
 Concen: 5.45 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN050947.D
 Acq: 29 Aug 2018 13:39

Tgt Ion:128 Resp: 612
 Ion Ratio Lower Upper
 128 100
 127 4.7 10.5 15.7#
 129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 3.31 ug/l

RT: 15.31 min Scan# 4267

Delta R.T. -0.00 min

Lab File: VN050947.D

Acq: 29 Aug 2018 13:39

Instrument :

MSVOA_N

ClientSampleId :

PB112452ZHE#03

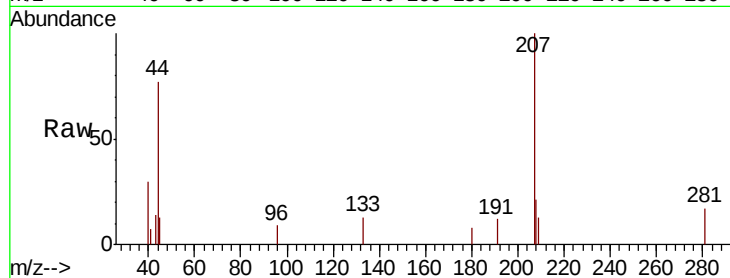
Tot Ion:180 Resp: 65

Ion Ratio Lower Upper

180 100

182 176.9 48.0 144.2#

145 0.0 15.2 45.6#



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

