

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050542.D
 Acq On : 11 Aug 2018 2:06
 Operator : MD\SY
 Sample : PB111921ZHE#16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#16

Quant Time: Aug 11 05:00:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	628444	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1065987	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	924618	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	355966	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	440141	52.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.84%	
35) Dibromofluoromethane	7.59	113	403130	47.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.26%	
50) Toluene-d8	10.09	98	1441356	44.82	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.64%	
62) 4-Bromofluorobenzene	12.40	95	411987	37.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	75.18%	

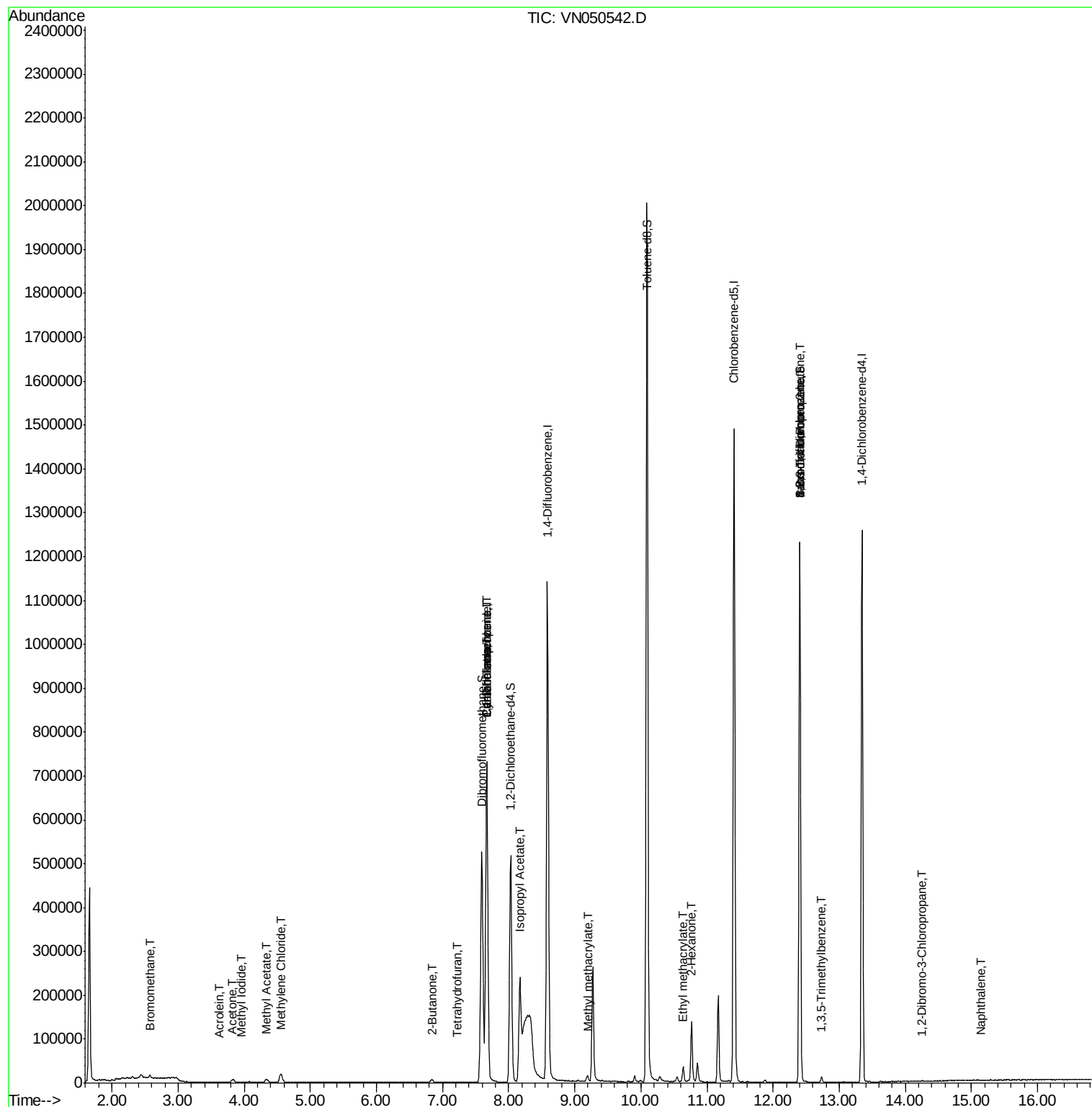
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2433	Below Cal	#	84
5) Bromomethane	2.57	94	4015	1.08	ug/l	97
10) Methyl Iodide	3.96	142	1034	0.33	ug/l	# 59
13) Acrolein	3.62	56	32	15.06	ug/l	# 15
16) Acetone	3.82	43	12326	4.57	ug/l	95
18) Methyl Acetate	4.34	43	16094	2.29	ug/l	# 72
20) Methylene Chloride	4.55	84	14575	0.36	ug/l	96
25) 2-Butanone	6.84	43	1298	0.31	ug/l	96
29) Tetrahydrofuran	7.22	42	950	0.43	ug/l	# 53
31) Cyclohexane	7.67	56	11803	0.36	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	44676	3.81	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	56024	4.59	ug/l	# 16
43) Isopropyl Acetate	8.17	43	288165	19.79	ug/l	96
48) Methyl methacrylate	9.18	41	7743	1.06	ug/l	# 21
56) Ethyl methacrylate	10.64	69	746	1.77	ug/l	# 1
59) 2-Hexanone	10.77	43	17731	2.42	ug/l	62
71) Bromoform	12.40	173	1802	0.29	ug/l	# 29
76) 1,2,3-Trichloropropane	12.40	75	202026	31.35	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.73	105	5350	0.25	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	202026	110.16	ug/l	# 13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	302	0.23	ug/l	# 1
95) Naphthalene	15.13	128	74	3.62	ug/l	# 69

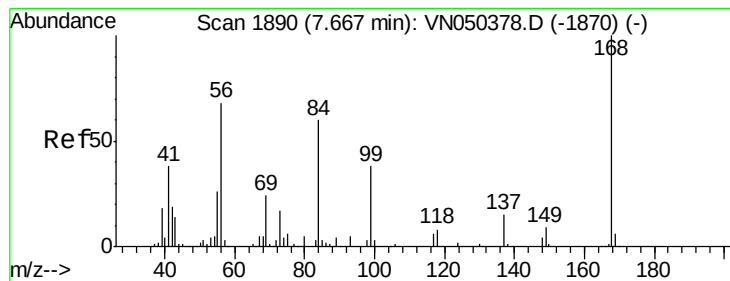
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 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: VN050542.D

Acq: 11 Aug 2018 2:06

Instrument :

MSVOA_N

ClientSampleId :

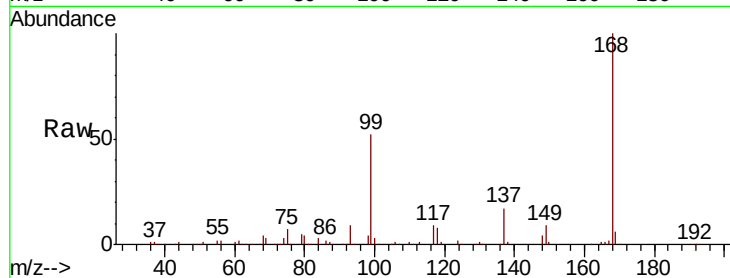
PB111921ZHE#16

Tot Ion:168 Resp: 628444

Ion Ratio Lower Upper

168 100

99 52.2 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050378.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050378.D (-1870) (-)

7.67

250000

200000

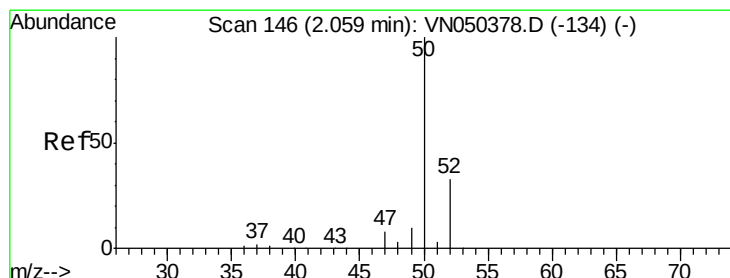
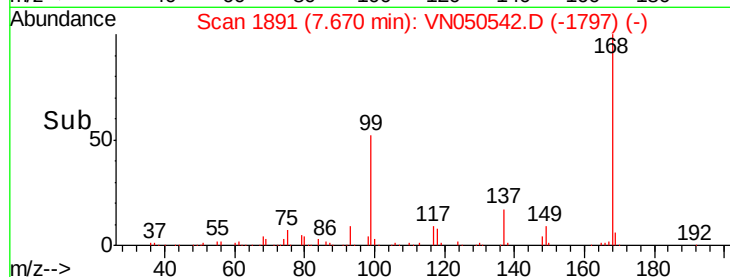
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050542.D

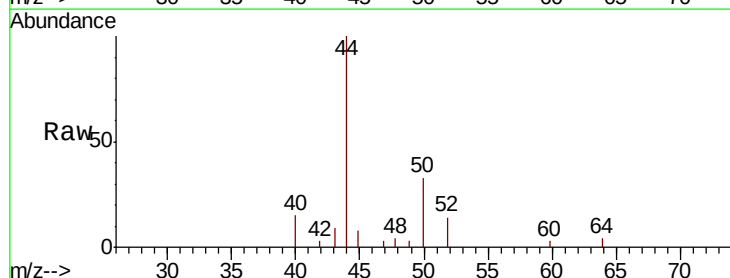
Acq: 11 Aug 2018 2:06

Tgt Ion: 50 Resp: 2433

Ion Ratio Lower Upper

50 100

52 41.2 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN050378.D (-134) (-)

Ion 51.90 (51.60 to 52.60): VN050378.D (-134) (-)

2000

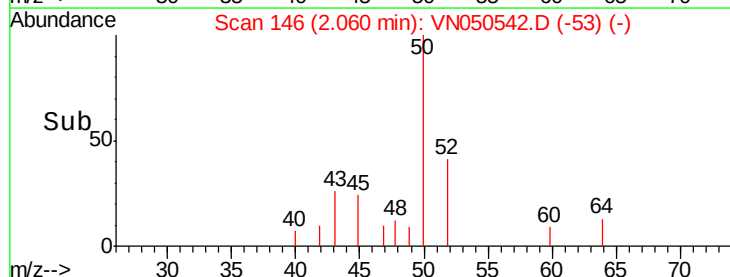
1500

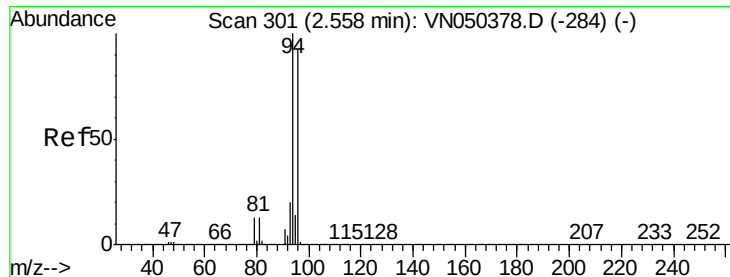
1000

500

0

Time-->





#5

Bromomethane

Concen: 1.08 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050542.D

Acq: 11 Aug 2018 2:06

Instrument :

MSVOA_N

ClientSampleId :

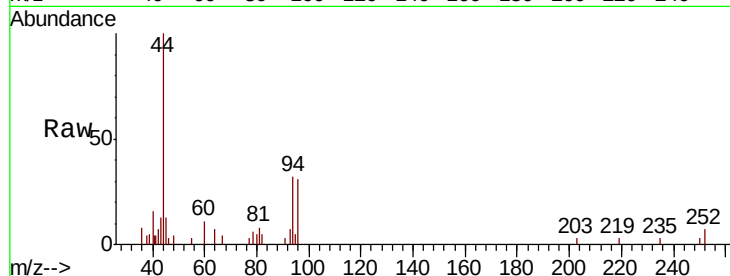
PB111921ZHE#16

Tot Ion: 94 Resp: 4015

Ion Ratio Lower Upper

94 100

96 96.5 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

2000

1500

1000

500

0

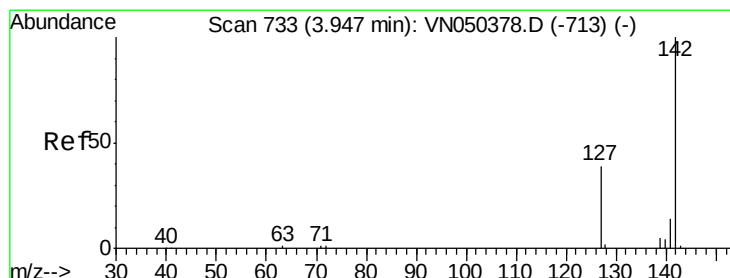
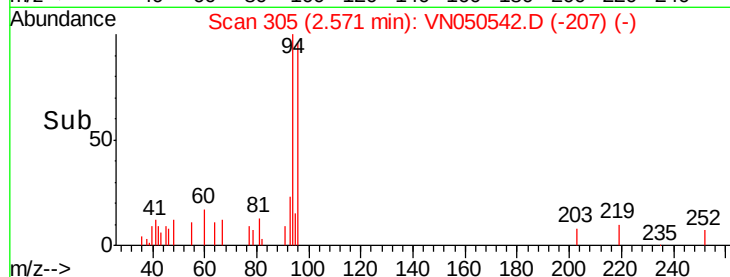
Time-->

2.50

2.55

2.60

2.65



#10

Methyl Iodide

Concen: 0.33 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.01 min

Lab File: VN050542.D

Acq: 11 Aug 2018 2:06

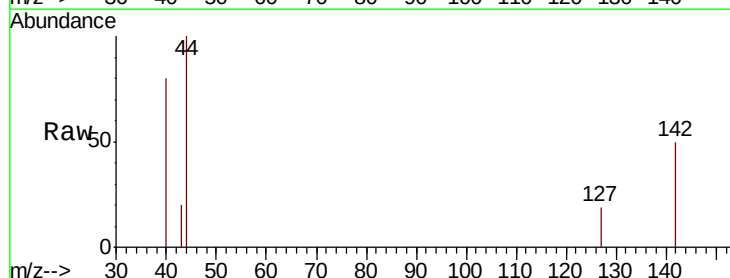
Tgt Ion: 142 Resp: 1034

Ion Ratio Lower Upper

142 100

127 14.8 33.4 50.2#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

600

400

200

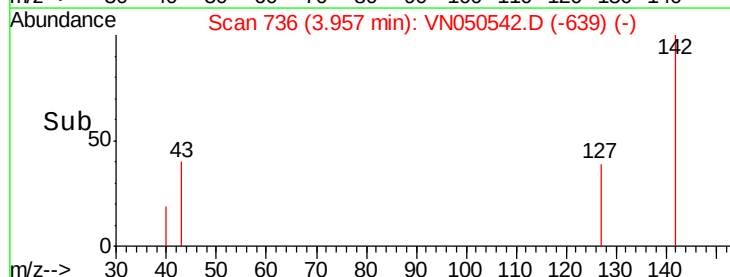
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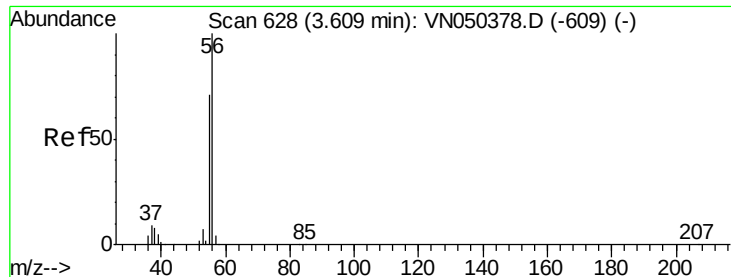
Time-->

3.90

3.95

4.00





#13

Acrolein

Concen: 15.06 ug/l

RT: 3.62 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN050542.D

Acq: 11 Aug 2018 2:06

Instrument :

MSVOA_N

ClientSampleId :

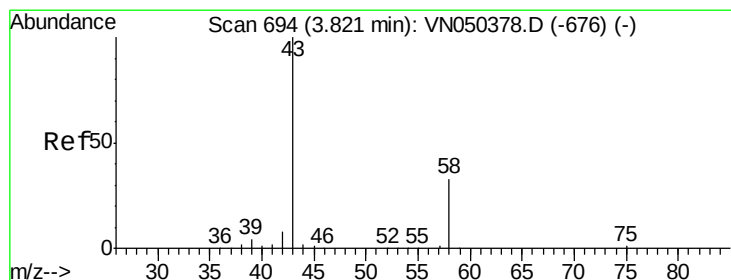
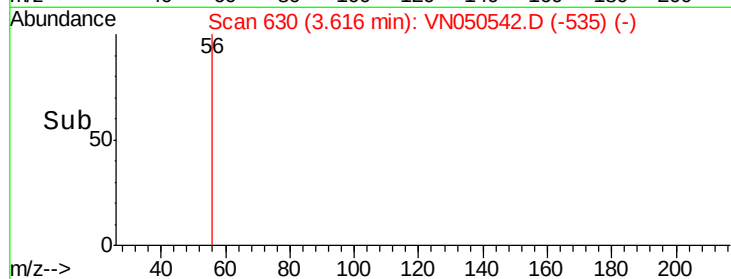
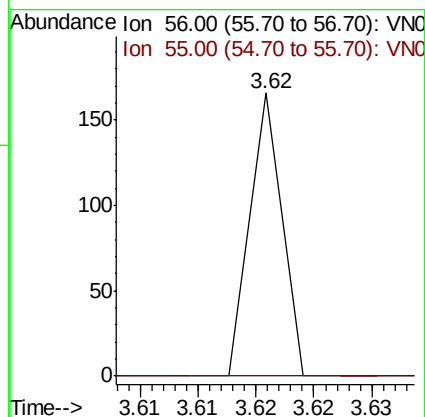
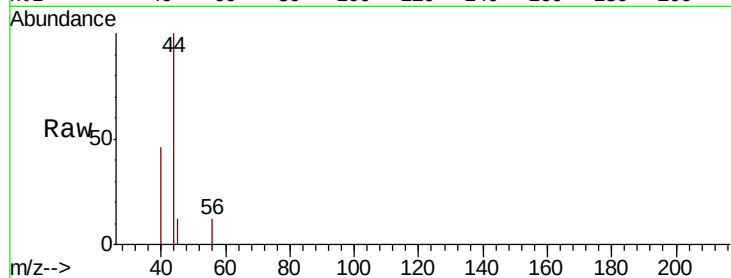
PB111921ZHE#16

Tot Ion: 56 Resp: 32

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.6#



#16

Acetone

Concen: 4.57 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050542.D

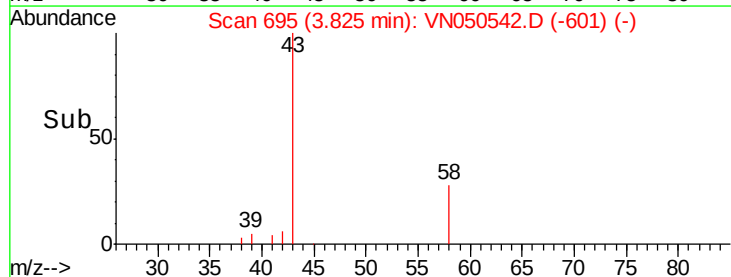
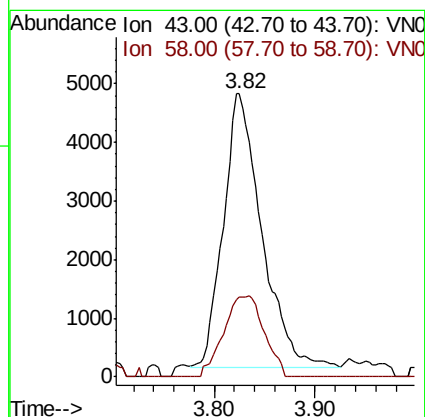
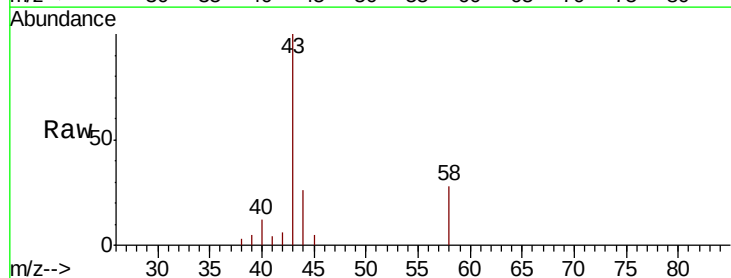
Acq: 11 Aug 2018 2:06

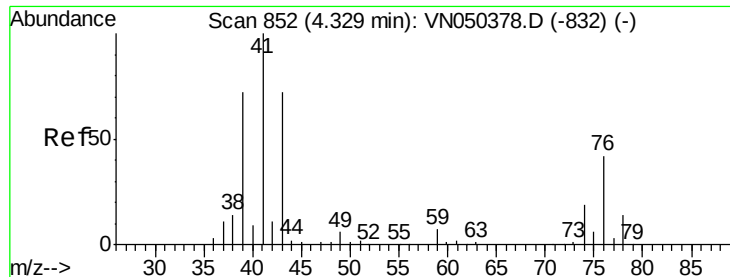
Tgt Ion: 43 Resp: 12326

Ion Ratio Lower Upper

43 100

58 29.3 25.8 38.8

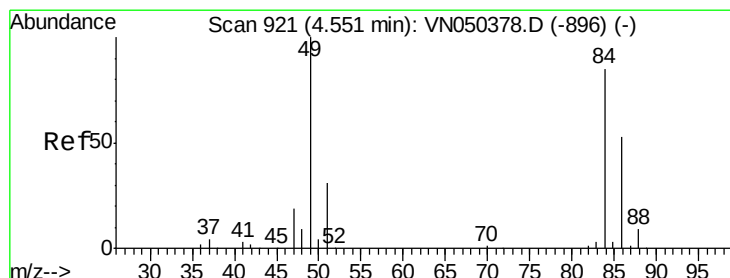
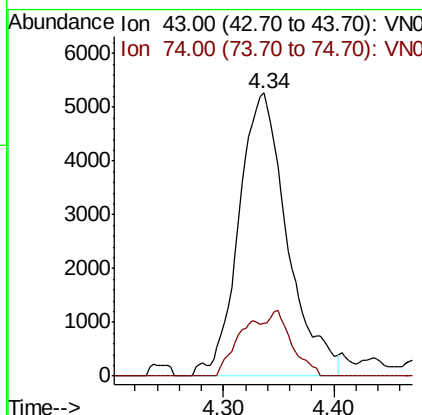
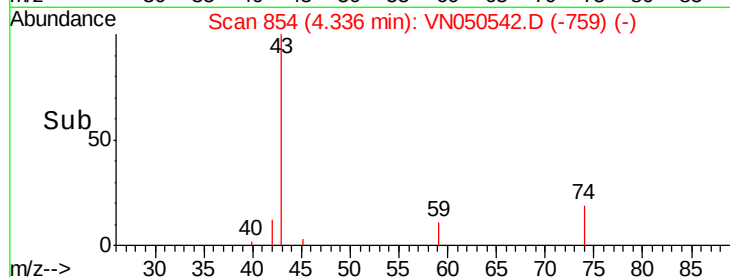
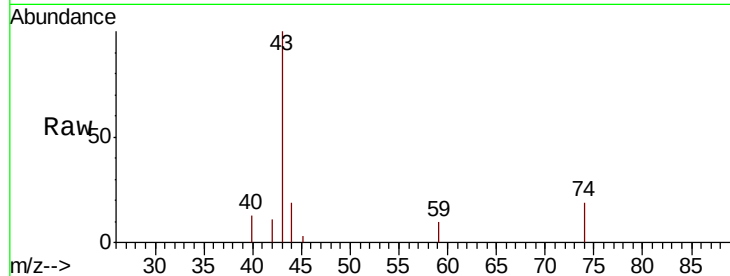




#18
Methyl Acetate
Concen: 2.29 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050542.D
Acq: 11 Aug 2018 2:06

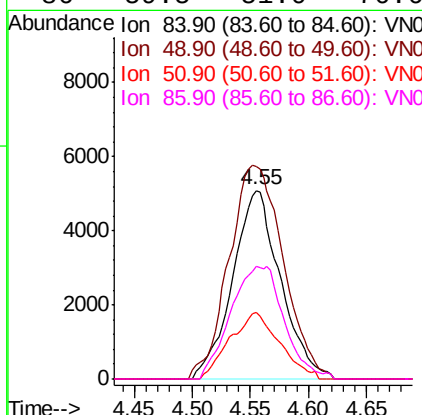
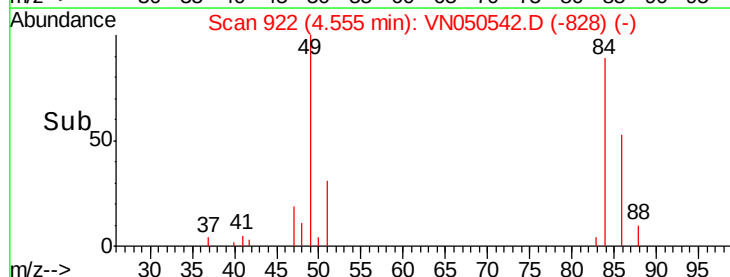
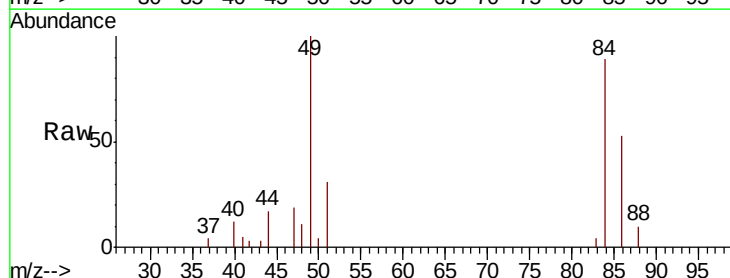
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#16

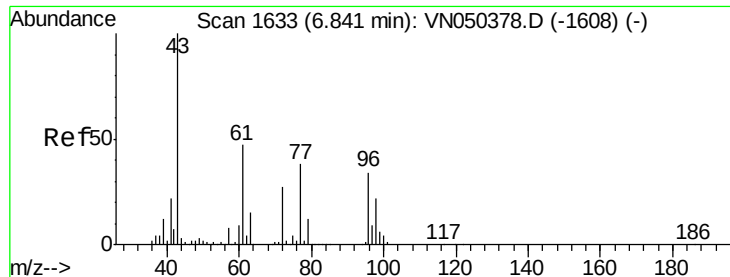
Tot Ion: 43 Resp: 16094
Ion Ratio Lower Upper
43 100
74 10.1 19.2 28.8#



#20
Methylene Chloride
Concen: 0.36 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050542.D
Acq: 11 Aug 2018 2:06

Tgt Ion: 84 Resp: 14575
Ion Ratio Lower Upper
84 100
49 112.8 94.8 142.2
51 35.4 28.3 42.5
86 59.5 51.0 76.6

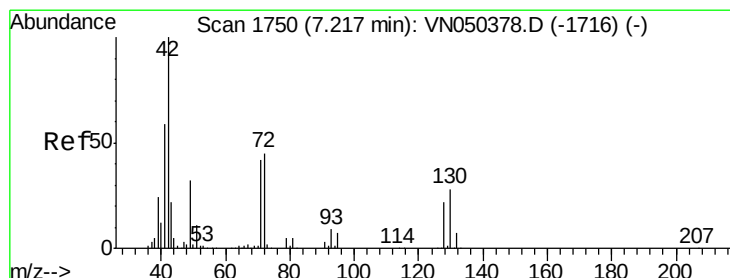
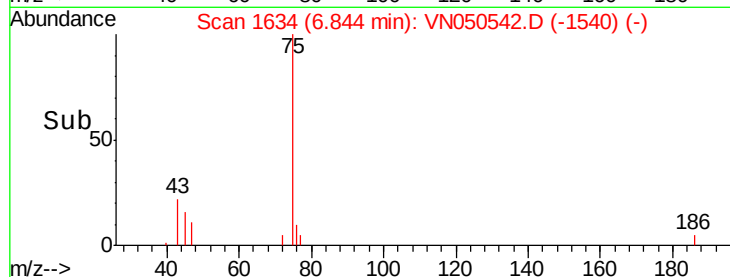
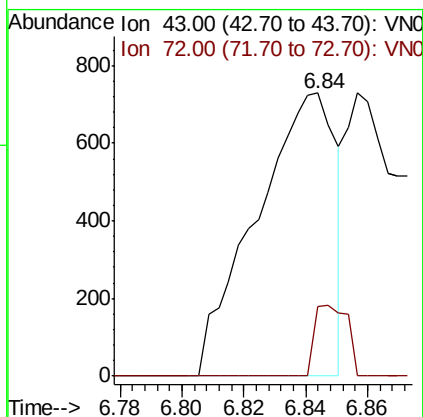
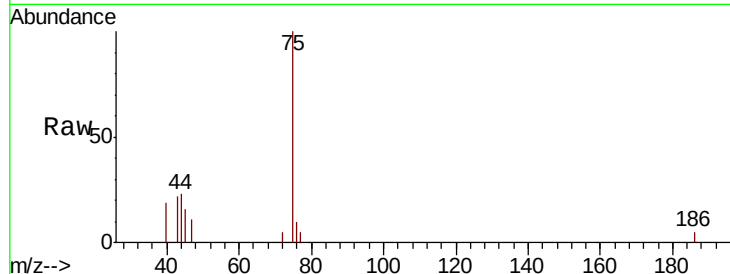




#25
2-Butanone
Concen: 0.31 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN050542.D
Acq: 11 Aug 2018 2:06

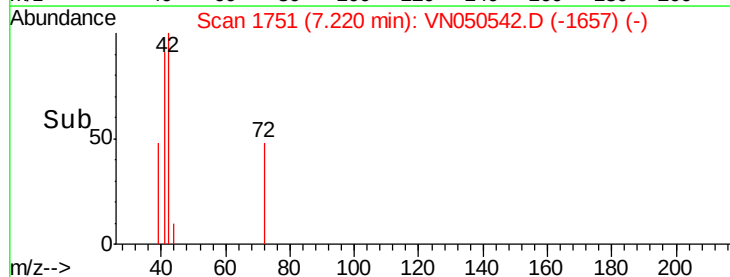
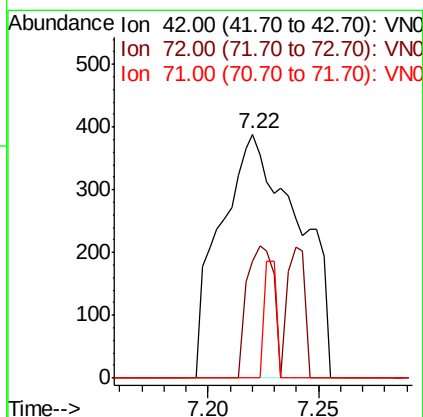
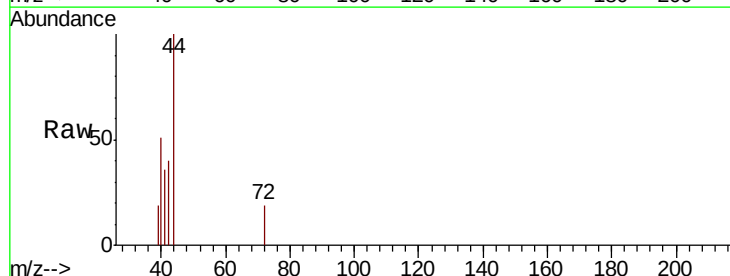
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#16

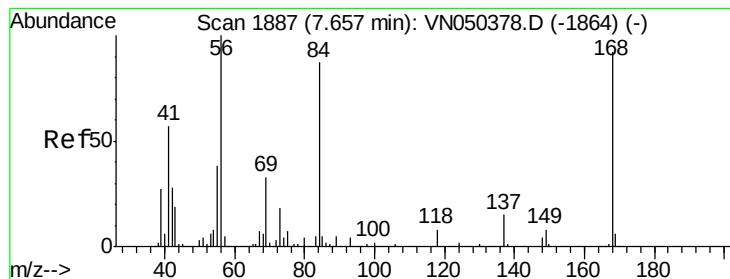
Tot Ion: 43 Resp: 1298
Ion Ratio Lower Upper
43 100
72 24.7 21.5 32.3



#29
Tetrahydrofuran
Concen: 0.43 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN050542.D
Acq: 11 Aug 2018 2:06

Tgt Ion: 42 Resp: 950
Ion Ratio Lower Upper
42 100
72 18.6 35.9 53.9#
71 7.5 33.7 50.5#





#31

Cyclohexane

Concen: 0.36 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.01 min

Lab File: VN050542.D

Acq: 11 Aug 2018 2:06

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#16

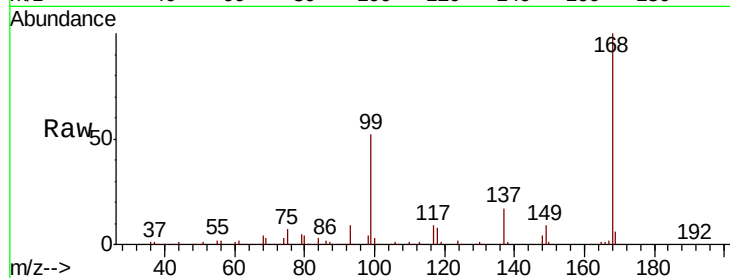
Tot Ion: 56 Resp: 11803

Ion Ratio Lower Upper

56 100

69 188.8 26.2 39.4#

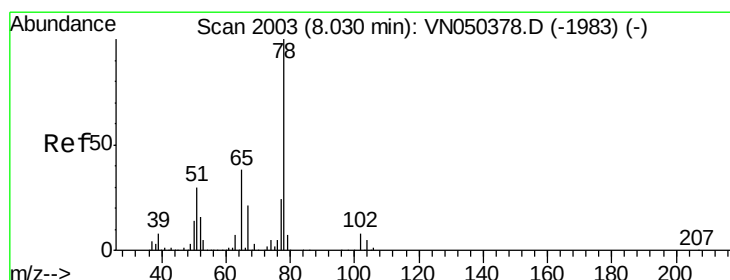
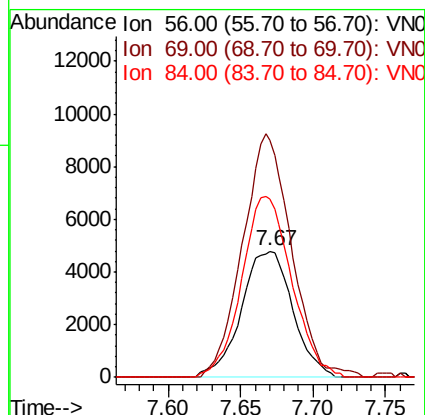
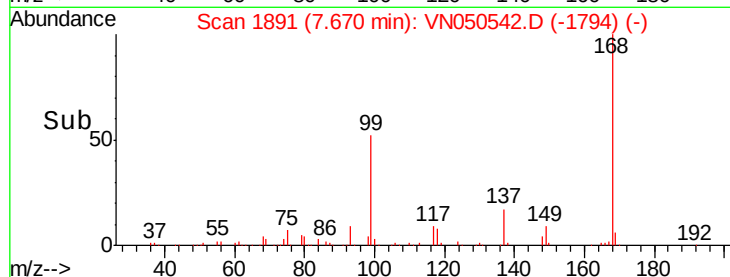
84 141.1 67.4 101.0#



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



#33

1,2-Dichloroethane-d4

Concen: 52.42 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050542.D

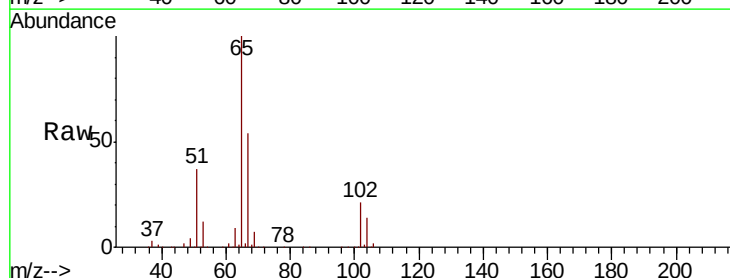
Acq: 11 Aug 2018 2:06

Tgt Ion: 65 Resp: 440141

Ion Ratio Lower Upper

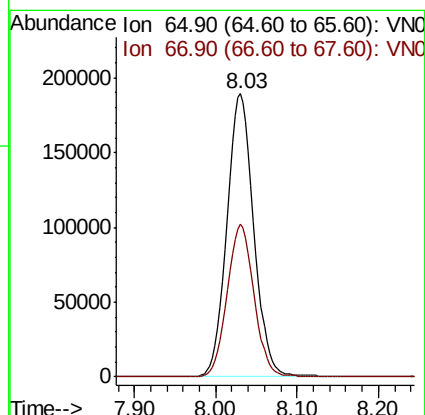
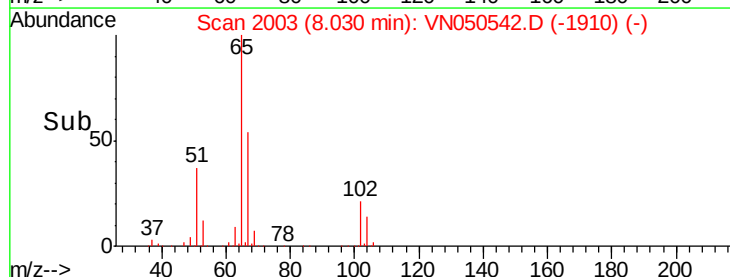
65 100

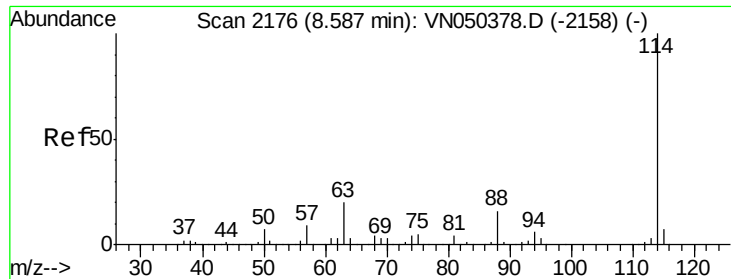
67 53.7 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



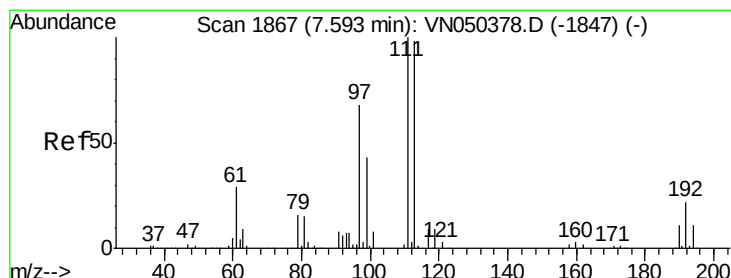
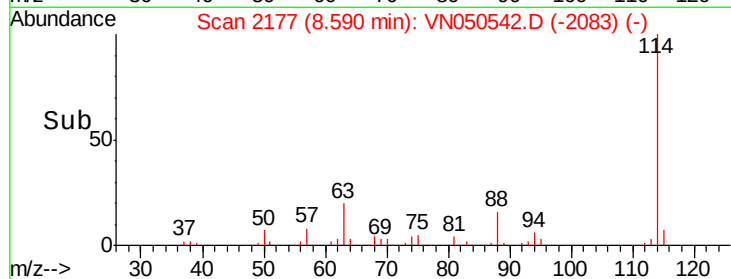
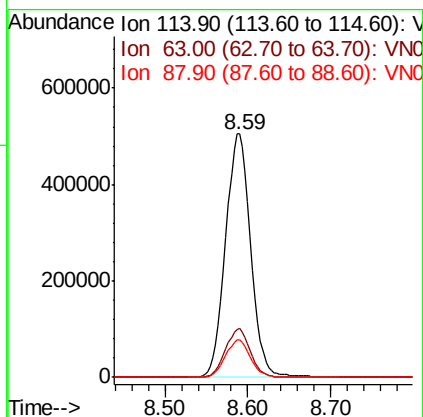
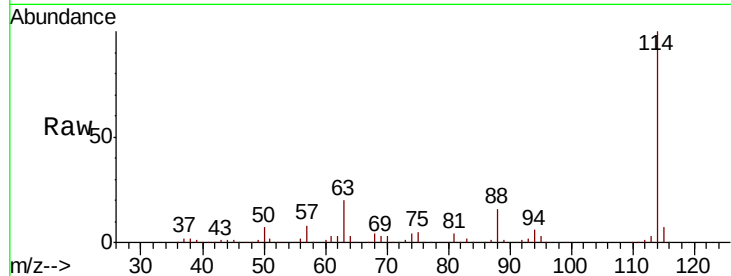


#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050542.D
 Acq: 11 Aug 2018 2:06

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#16

Tot Ion:114 Resp: 1065987

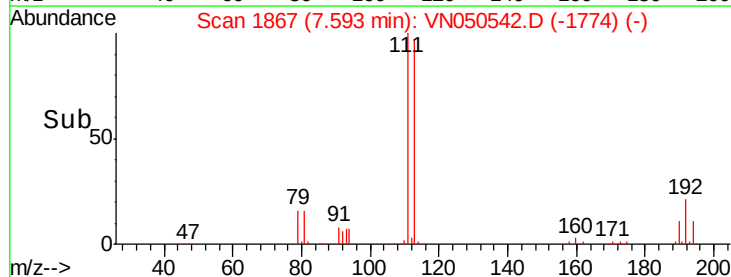
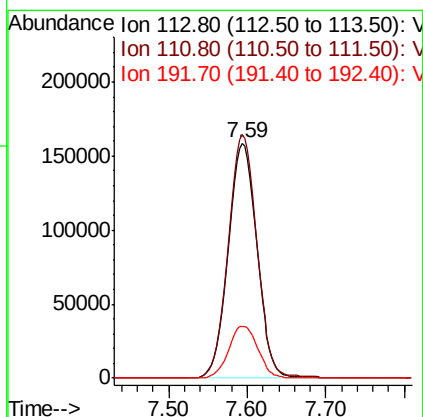
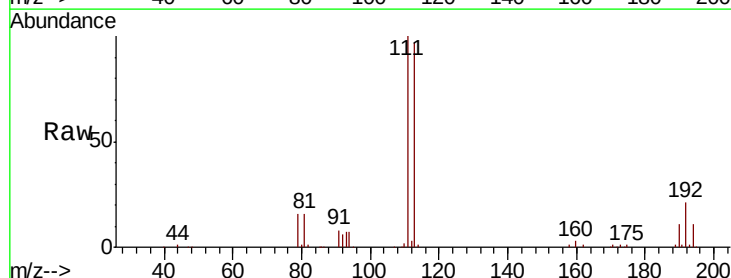
Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	40.0
88	15.5	0.0	31.2

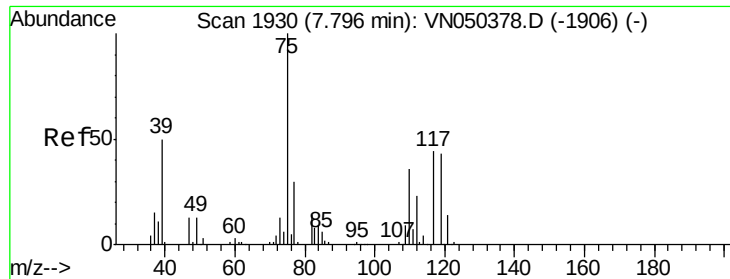


#35
 Dibromofluoromethane
 Concen: 47.13 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050542.D
 Acq: 11 Aug 2018 2:06

Tgt Ion:113 Resp: 403130

Ion	Ratio	Lower	Upper
113	100		
111	103.1	80.7	121.1
192	22.4	17.8	26.6

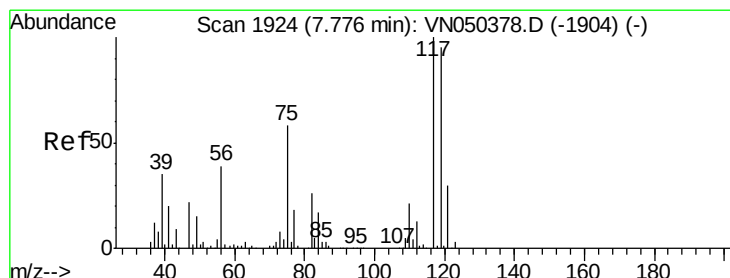
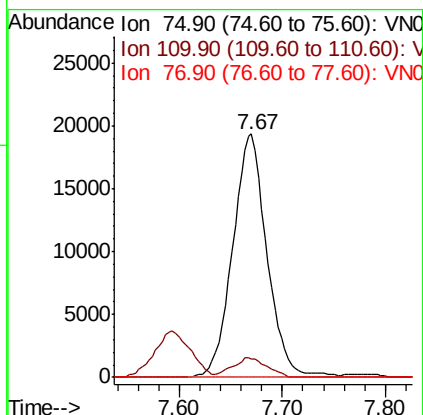
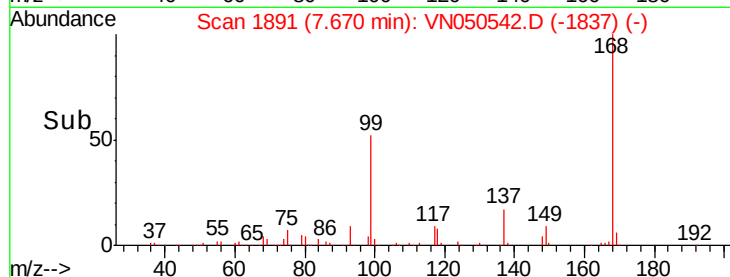
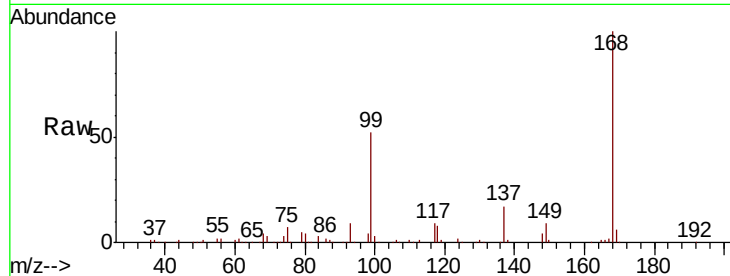




#36
 1,1-Dichloropropene
 Concen: 3.81 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050542.D
 Acq: 11 Aug 2018 2:06

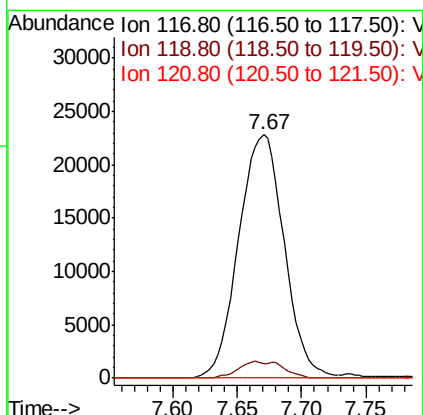
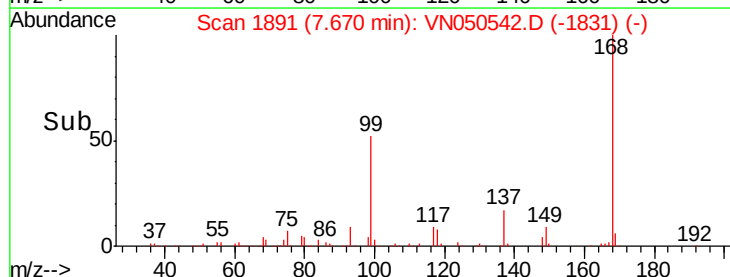
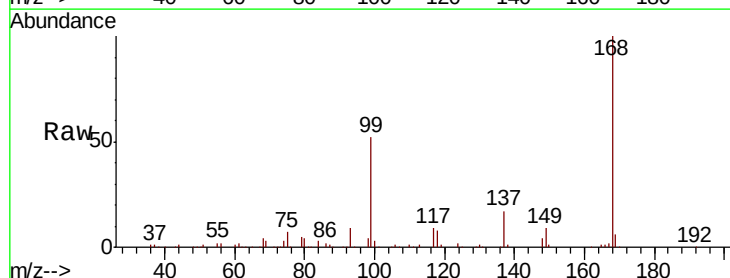
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111921ZHE#16

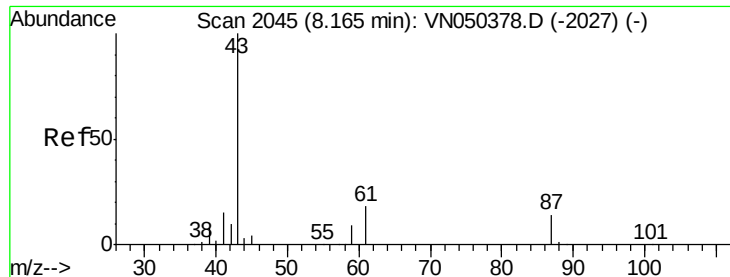
Tot Ion: 75 Resp: 44676
 Ion Ratio Lower Upper
 75 100
 110 8.0 18.4 55.2#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 4.59 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050542.D
 Acq: 11 Aug 2018 2:06

Tgt Ion: 117 Resp: 56024
 Ion Ratio Lower Upper
 117 100
 119 5.8 77.4 116.0#
 121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 19.79 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050542.D

Acq: 11 Aug 2018 2:06

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#16

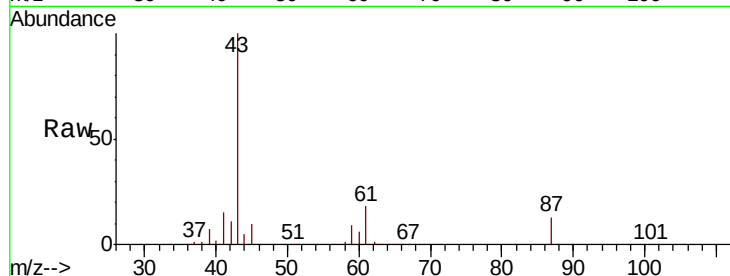
Tot Ion: 43 Resp: 288165

Ion Ratio Lower Upper

43 100

61 17.6 15.8 23.6

87 11.7 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

150000

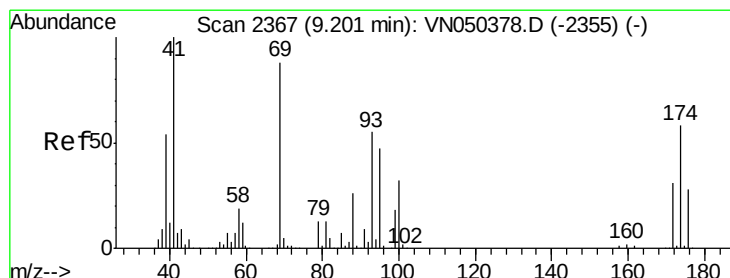
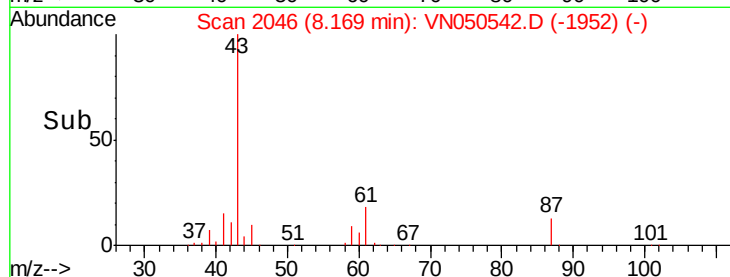
100000

50000

0

8.10 8.15 8.20

Time-->



#48

Methyl methacrylate

Concen: 1.06 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050542.D

Acq: 11 Aug 2018 2:06

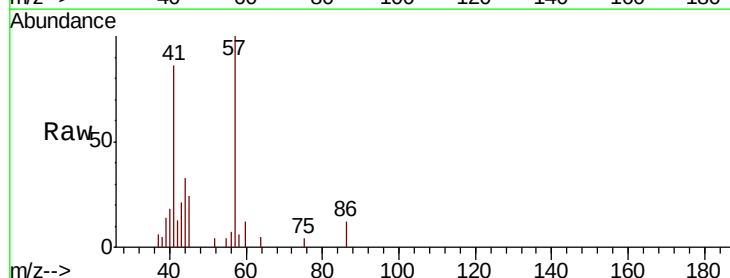
Tgt Ion: 41 Resp: 7743

Ion Ratio Lower Upper

41 100

69 0.0 70.6 105.8#

39 16.8 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

15000

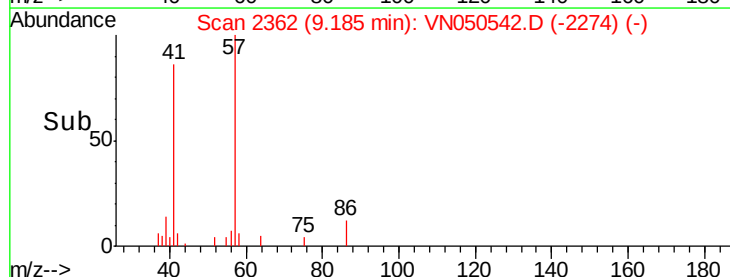
10000

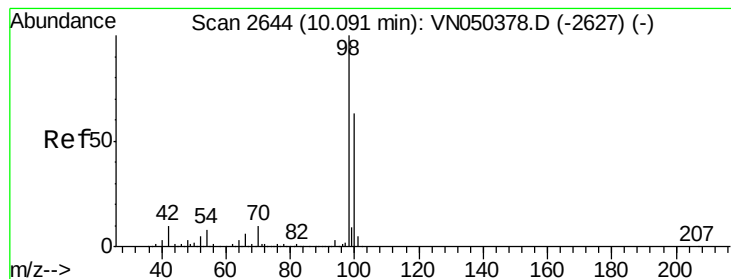
5000

0

9.15 9.20 9.25

Time-->





#50

Toluene-d8

Concen: 44.82 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050542.D

Acq: 11 Aug 2018 2:06

Instrument :

MSVOA_N

ClientSampleId :

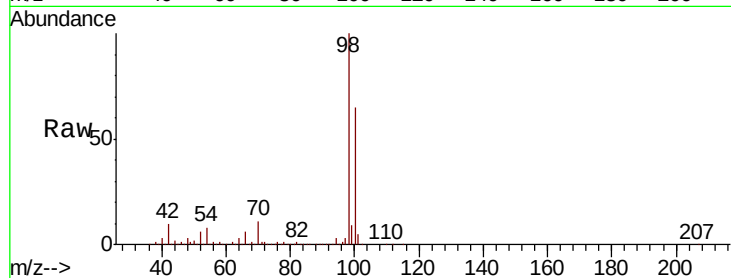
PB111921ZHE#16

Tot Ion: 98 Resp: 1441356

Ion Ratio Lower Upper

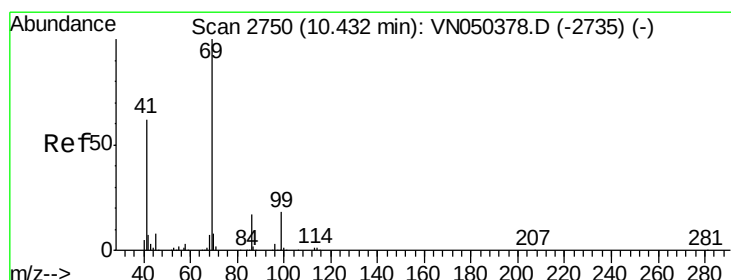
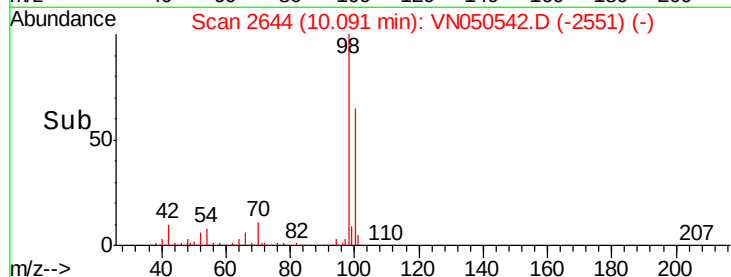
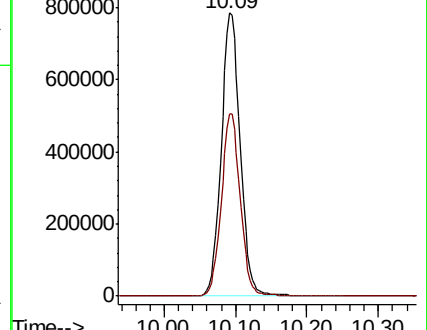
98 100

100 64.1 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#56

Ethyl methacrylate

Concen: 1.77 ug/l

RT: 10.64 min Scan# 2815

Delta R.T. 0.21 min

Lab File: VN050542.D

Acq: 11 Aug 2018 2:06

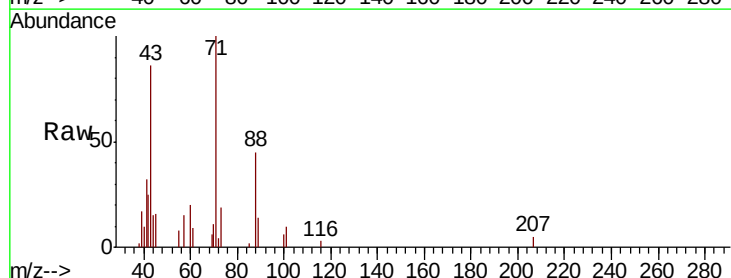
Tgt Ion: 69 Resp: 746

Ion Ratio Lower Upper

69 100

41 642.9 51.0 76.4#

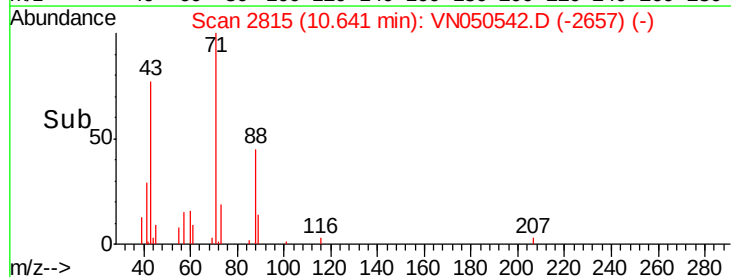
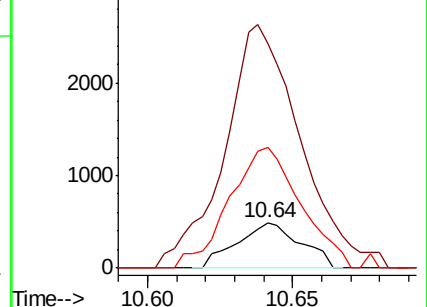
39 298.3 26.6 40.0#

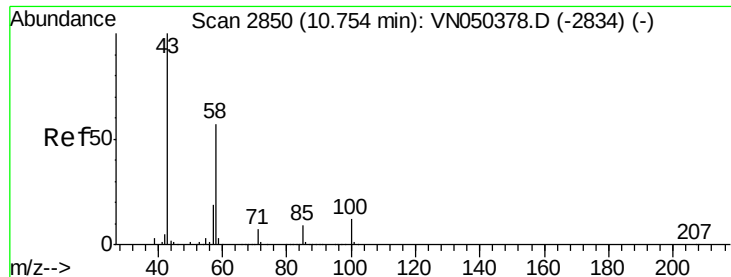


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

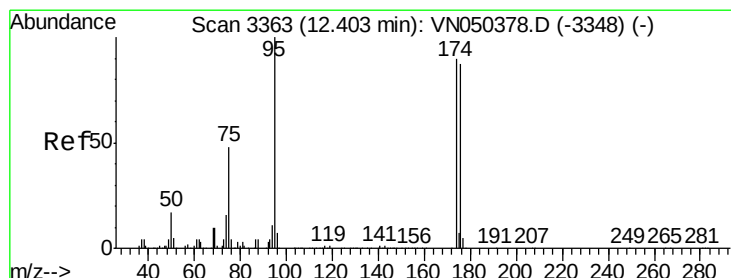
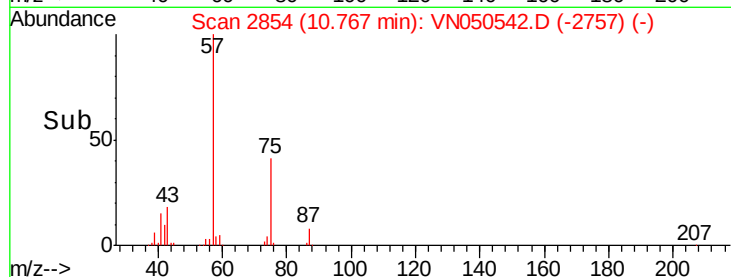
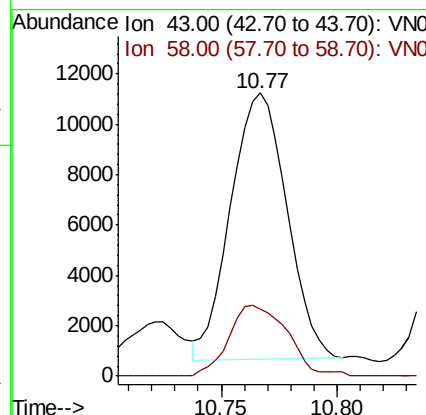
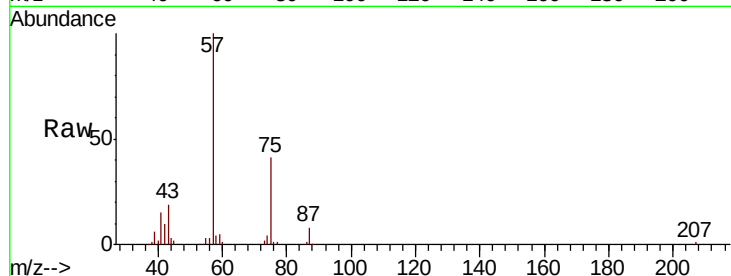




#59
2-Hexanone
Concen: 2.42 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050542.D
Acq: 11 Aug 2018 2:06

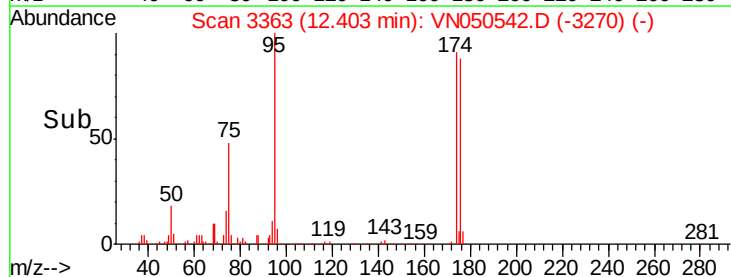
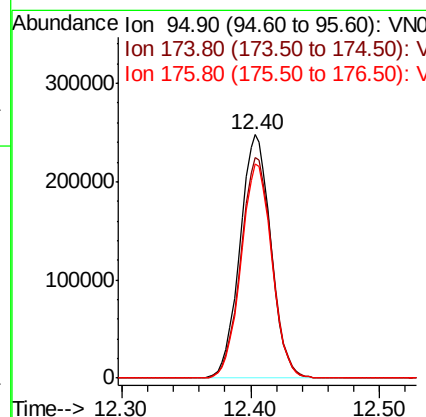
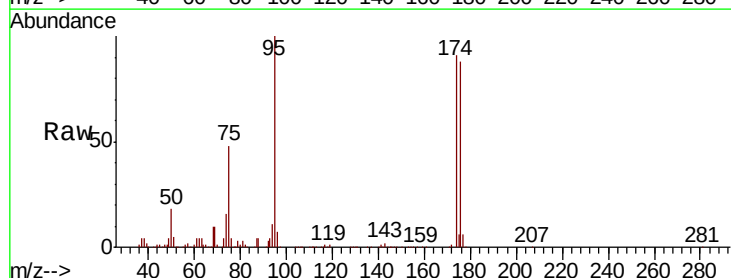
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#16

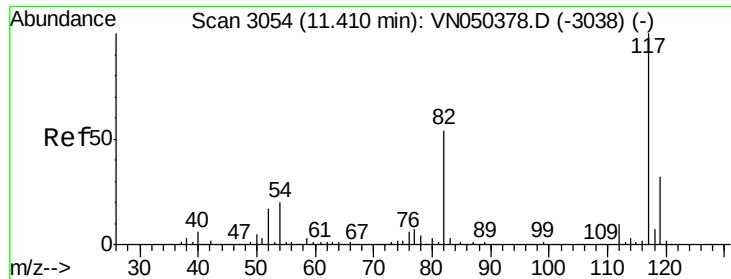
Tot Ion: 43 Resp: 17731
Ion Ratio Lower Upper
43 100
58 27.9 27.6 82.7



#62
4-Bromofluorobenzene
Concen: 37.59 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050542.D
Acq: 11 Aug 2018 2:06

Tgt Ion: 95 Resp: 411987
Ion Ratio Lower Upper
95 100
174 91.7 0.0 178.2
176 88.0 0.0 173.4

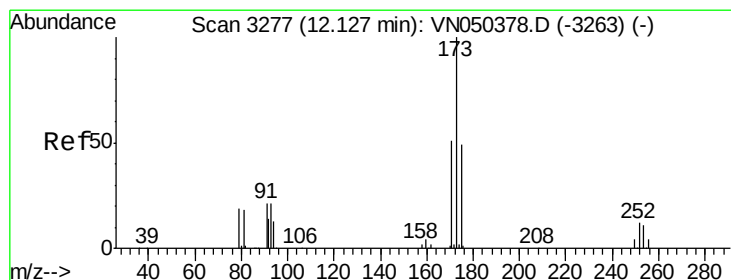
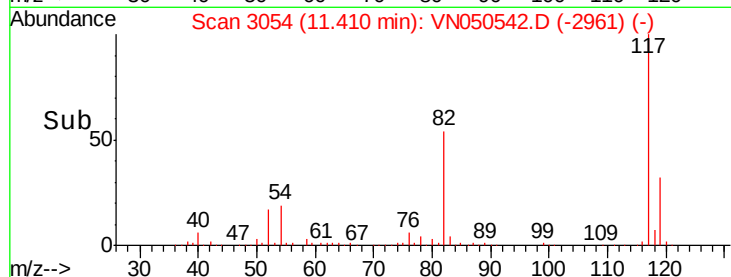
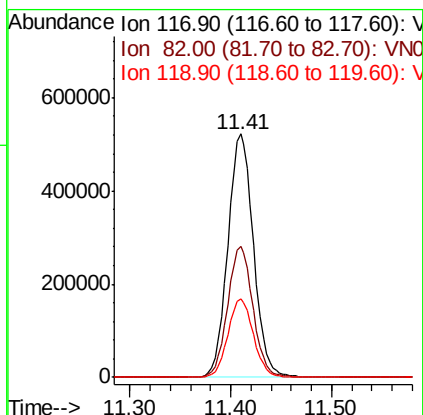
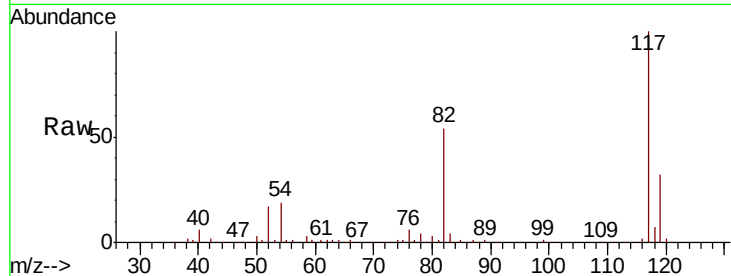




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050542.D
Acq: 11 Aug 2018 2:06

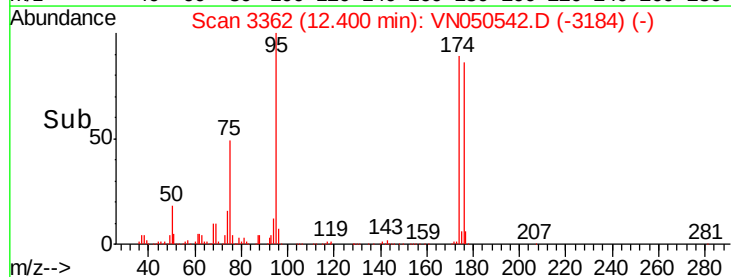
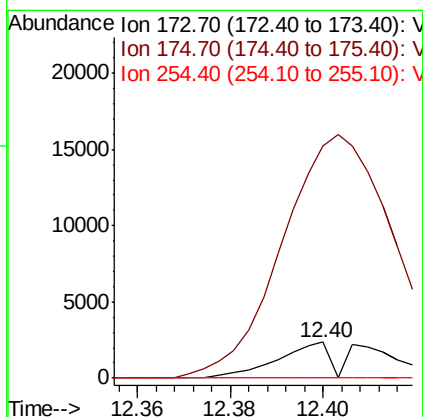
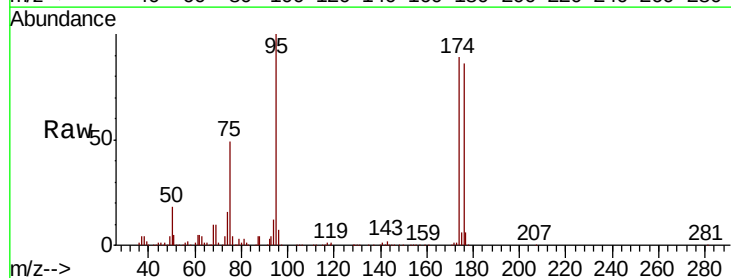
Instrument :
MSVOA_N
ClientSampleId :
PB111921ZHE#16

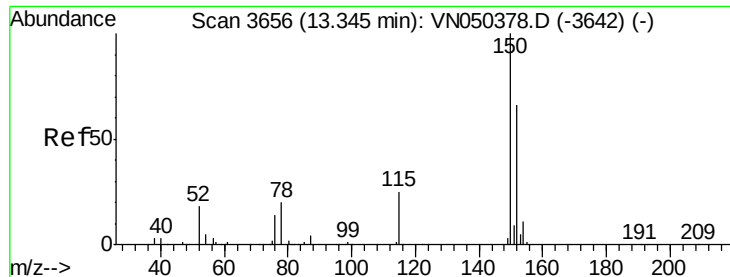
Tot Ion:117 Resp: 924618
Ion Ratio Lower Upper
117 100
82 53.7 43.7 65.5
119 32.2 26.1 39.1



#71
Bromoform
Concen: 0.29 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.27 min
Lab File: VN050542.D
Acq: 11 Aug 2018 2:06

Tgt Ion:173 Resp: 1802
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.2#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050542.D

Acq: 11 Aug 2018 2:06

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#16

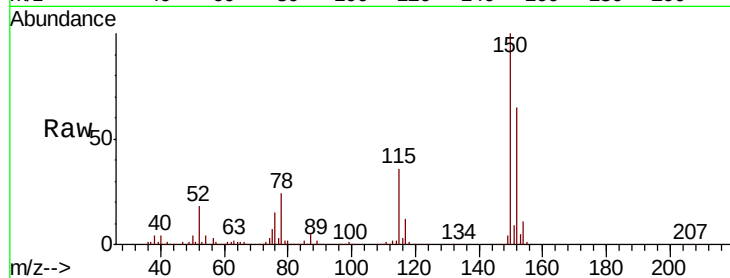
Tot Ion:152 Resp: 355966

Ion Ratio Lower Upper

152 100

115 56.0 27.8 83.3

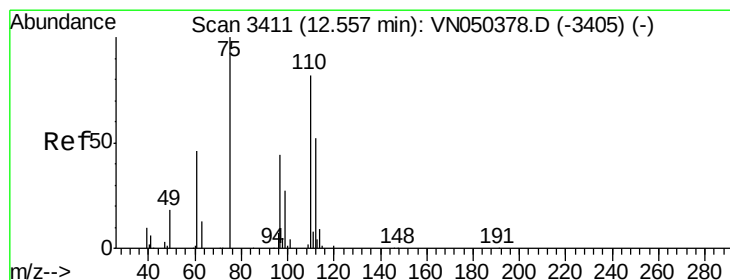
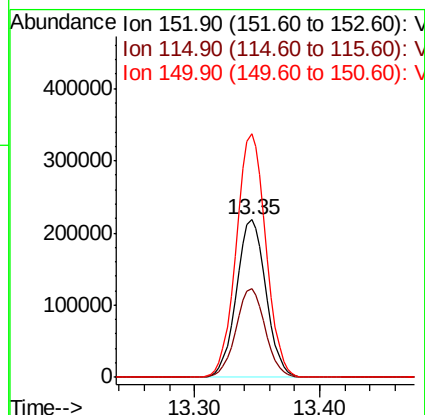
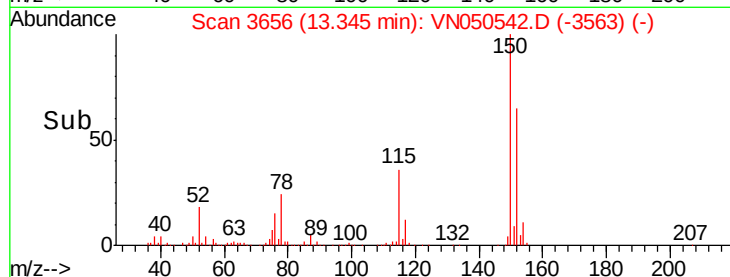
150 155.4 0.0 348.6



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



#76

1,2,3-Trichloropropane

Concen: 31.35 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050542.D

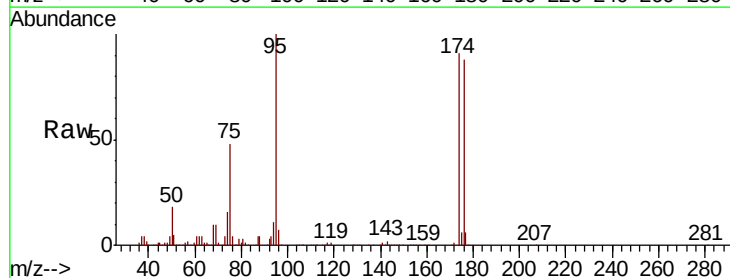
Acq: 11 Aug 2018 2:06

Tgt Ion: 75 Resp: 202026

Ion Ratio Lower Upper

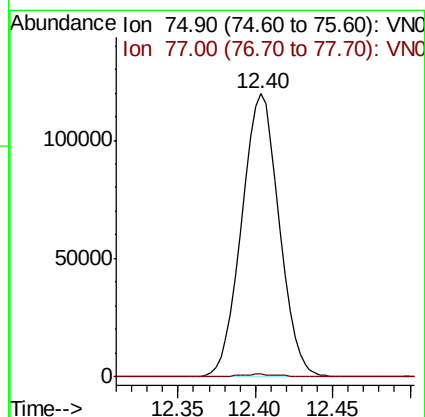
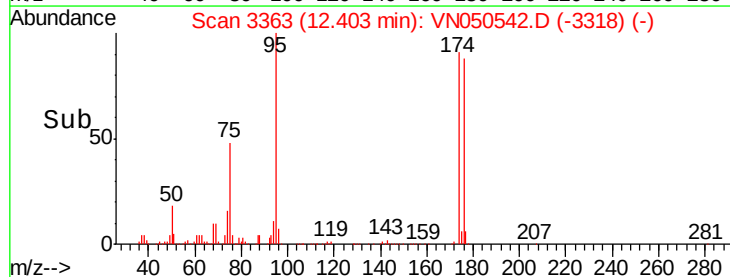
75 100

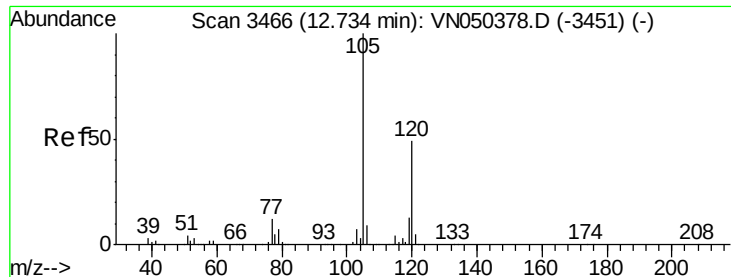
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.25 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050542.D

Acq: 11 Aug 2018 2:06

Instrument :

MSVOA_N

ClientSampleId :

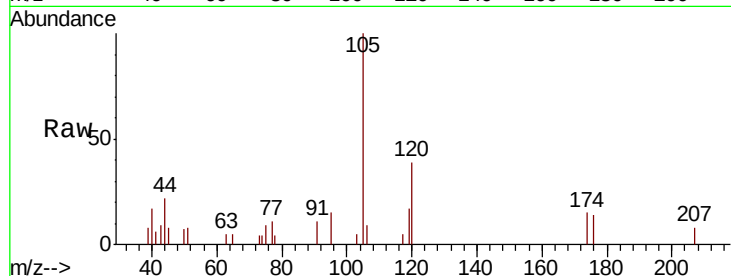
PB111921ZHE#16

Tot Ion:105 Resp: 5350

Ion Ratio Lower Upper

105 100

120 47.0 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

4000

3000

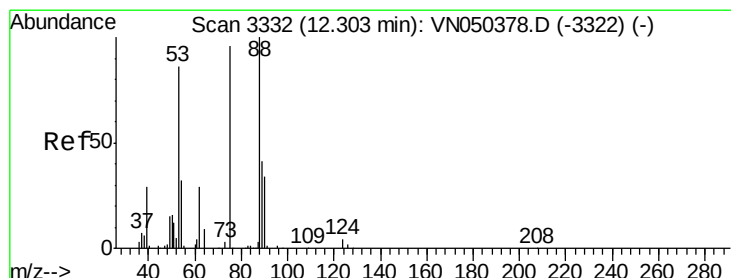
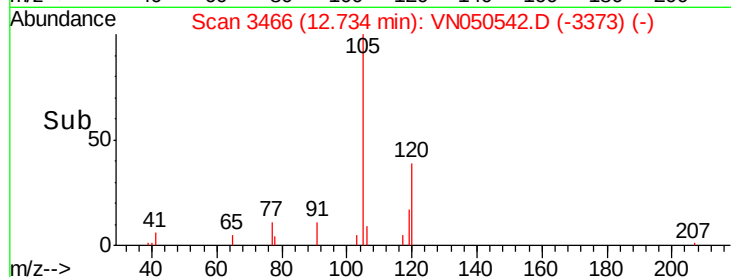
2000

1000

0

Time-->

12.70 12.75



#81

trans-1,4-Dichloro-2-butene

Concen: 110.16 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050542.D

Acq: 11 Aug 2018 2:06

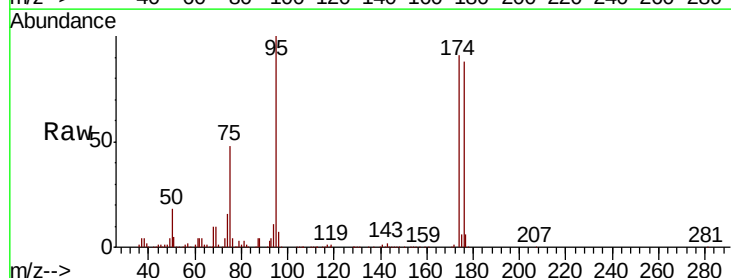
Tgt Ion: 75 Resp: 202026

Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

150000

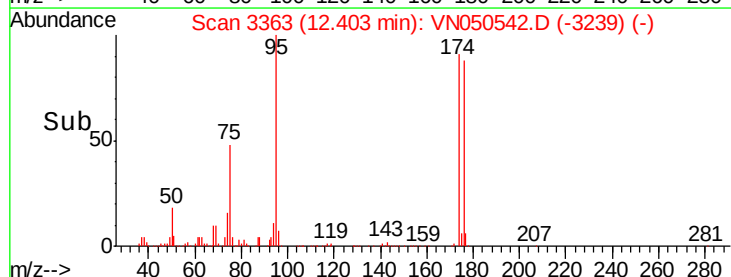
100000

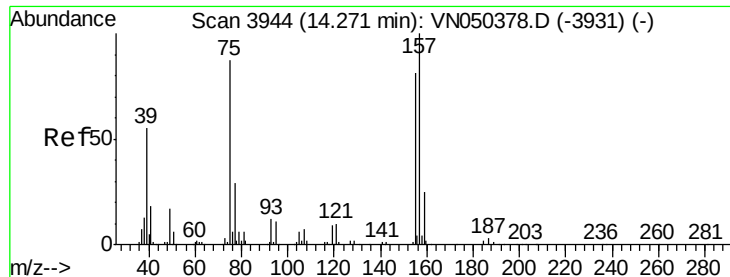
50000

0

Time-->

12.35 12.40 12.45





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.23 ug/l

RT: 14.26 min Scan# 3940

Delta R.T. -0.01 min

Lab File: VN050542.D

Acq: 11 Aug 2018 2:06

Instrument :

MSVOA_N

ClientSampleId :

PB111921ZHE#16

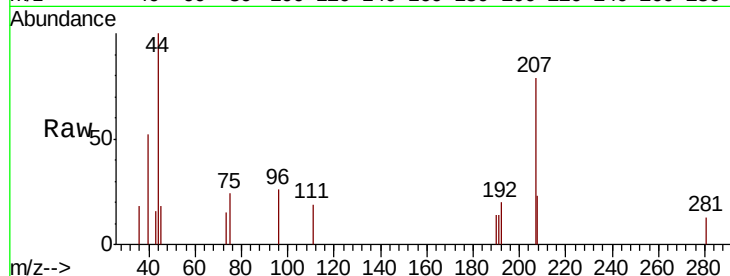
Tot Ion: 75 Resp: 302

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

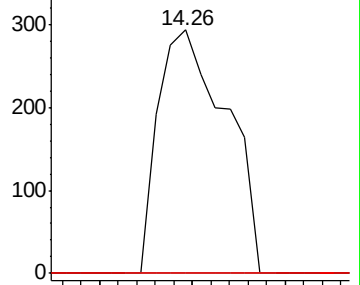
157 0.0 57.2 171.6#



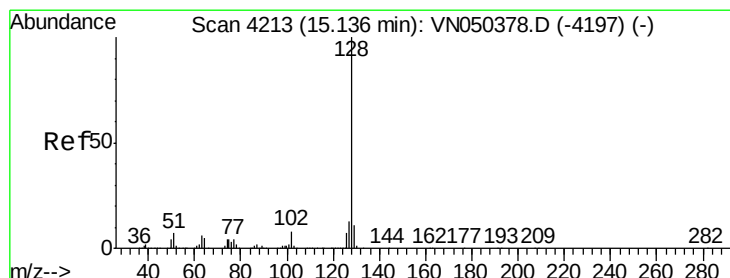
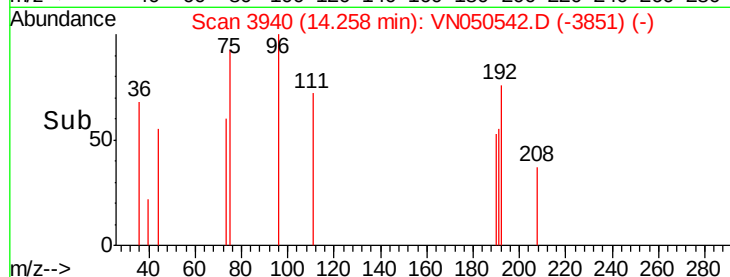
Abundance Ion 74.90 (74.60 to 75.60): VN050378.D (-3931) (-)

Ion 154.80 (154.50 to 155.50): VN050378.D (-3931) (-)

Ion 156.80 (156.50 to 157.50): VN050378.D (-3931) (-)



Time-->



#95

Naphthalene

Concen: 3.62 ug/l

RT: 15.13 min Scan# 4211

Delta R.T. -0.01 min

Lab File: VN050542.D

Acq: 11 Aug 2018 2:06

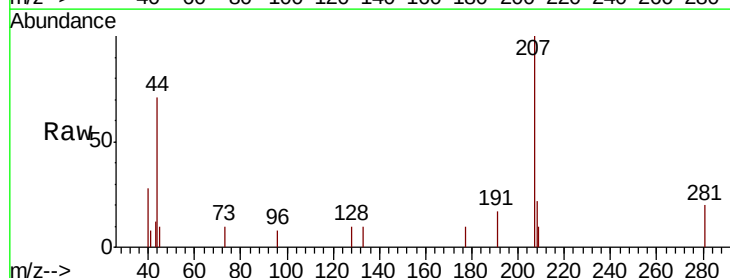
Tgt Ion: 128 Resp: 74

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

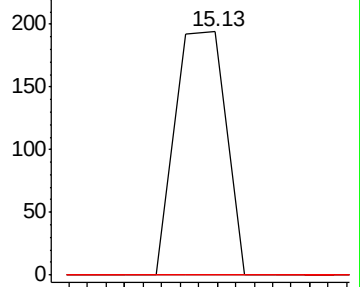
129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): VN050378.D (-4197) (-)

Ion 127.00 (126.70 to 127.70): VN050378.D (-4197) (-)

Ion 129.00 (128.70 to 129.70): VN050378.D (-4197) (-)



Time-->

