

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080218\
 Data File : VN050271.D
 Acq On : 2 Aug 2018 18:14
 Operator : MD\SY
 Sample : PB111674ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#09

Quant Time: Aug 03 01:15:31 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	629848	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1074439	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	914445	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	339938	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	457789	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	
35) Dibromofluoromethane	7.60	113	408381	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	
50) Toluene-d8	10.09	98	1456918	45.17	ug/l	0.00
Spiked Amount			Recovery	=	90.34%	
62) 4-Bromofluorobenzene	12.40	95	399835	37.65	ug/l	0.00
Spiked Amount			Recovery	=	75.30%	

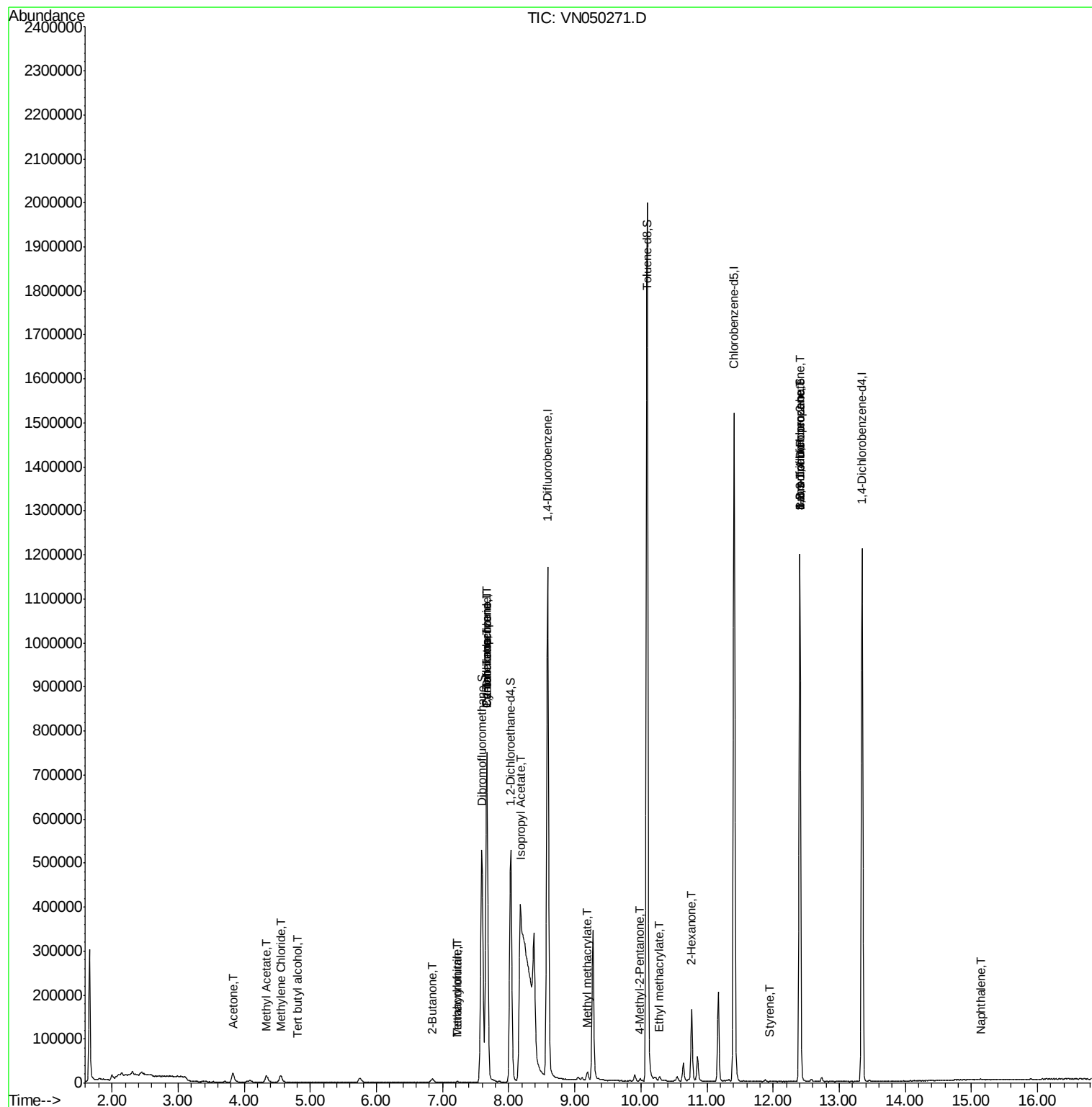
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	352	Below Cal	#	71
11) Tert butyl alcohol	4.82	59	203	0.31	ug/l #	72
16) Acetone	3.83	43	35432	13.00	ug/l	99
18) Methyl Acetate	4.34	43	28032	1.91	ug/l	100
20) Methylene Chloride	4.55	84	11436	0.22	ug/l	95
25) 2-Butanone	6.85	43	6896	2.06	ug/l	97
29) Tetrahydrofuran	7.23	42	1337	0.62	ug/l #	47
31) Cyclohexane	7.67	56	12472	0.96	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44231	3.65	ug/l #	48
38) Carbon Tetrachloride	7.67	117	55410	4.31	ug/l #	17
41) Methacrylonitrile	7.24	41	1301	3.03	ug/l #	26
43) Isopropyl Acetate	8.18	43	1276285	80.95	ug/l #	71
48) Methyl methacrylate	9.18	41	9867	1.36	ug/l #	23
51) 4-Methyl-2-Pentanone	9.99	43	3885	0.47	ug/l #	87
56) Ethyl methacrylate	10.29	69	110	2.04	ug/l #	1
59) 2-Hexanone	10.77	43	24113	9.05	ug/l #	57
70) Styrene	11.96	104	250	0.93	ug/l #	25
71) Bromoform	12.41	173	2860	0.44	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	185	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	192929	30.54	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	192929	96.86	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	174	Below Cal	#	1
95) Naphthalene	15.14	128	700	4.46	ug/l #	69

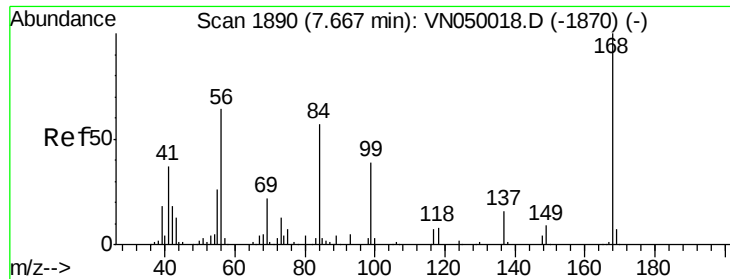
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN050271.D
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Sample : PB111674ZHE#09
Misc : 5.00mL/MSVOA N/WATER
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Instrument :
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ClientSampleId :
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Quant Time: Aug 03 01:15:31 2018
Quant Method : Z:\V0ASRV\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: VN050271.D

Acq: 2 Aug 2018 18:14

Instrument :

MSVOA_N

ClientSampleId :

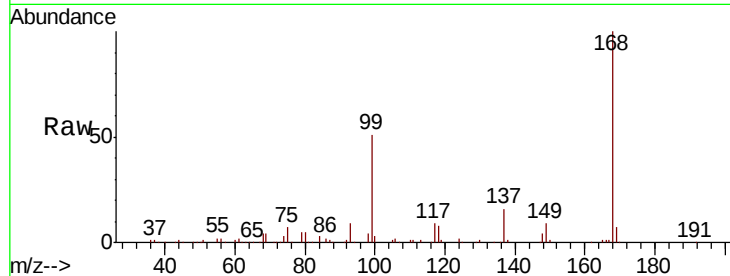
PB111674ZHE#09

Tot Ion:168 Resp: 629848

Ion Ratio Lower Upper

168 100

99 51.3 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050271.D (-1798) (-)

Ion 98.90 (98.60 to 99.60): VN050271.D (-1798) (-)

7.67

250000

200000

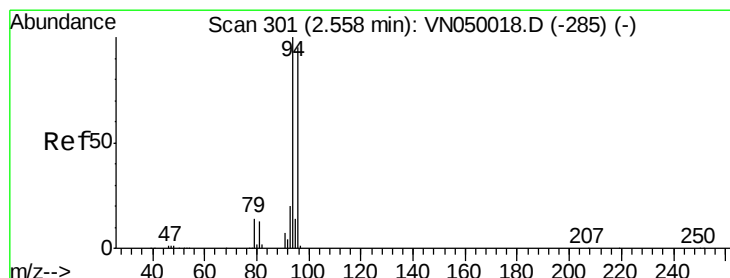
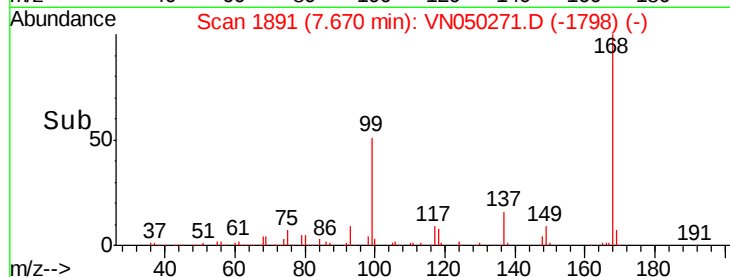
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 300

Delta R.T. 0.00 min

Lab File: VN050271.D

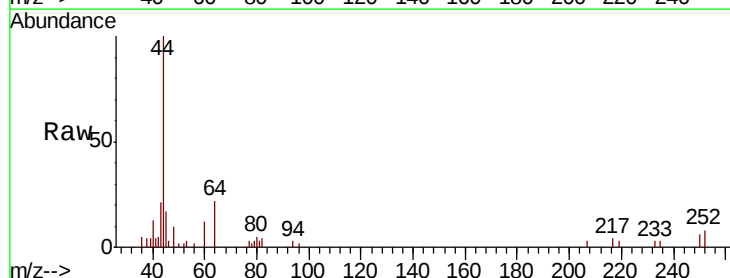
Acq: 2 Aug 2018 18:14

Tgt Ion: 94 Resp: 352

Ion Ratio Lower Upper

94 100

96 65.2 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN050271.D (-206) (-)

Ion 95.90 (95.60 to 96.60): VN050271.D (-206) (-)

2.55

500

400

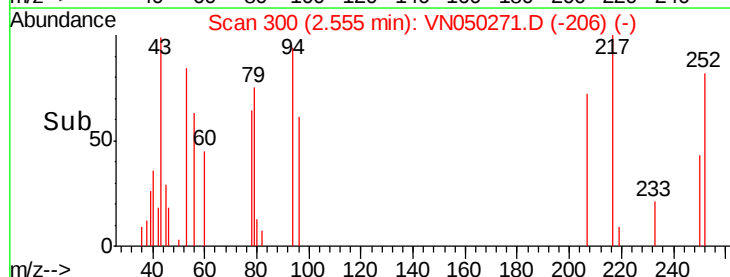
300

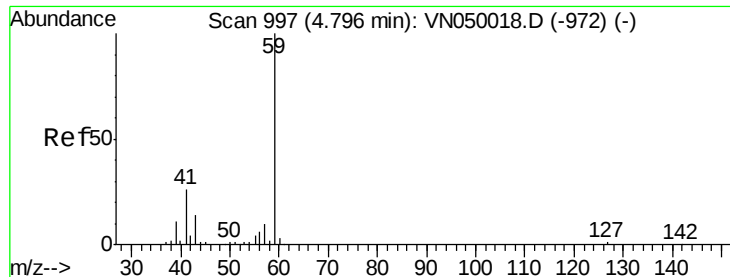
200

100

0

Time-->

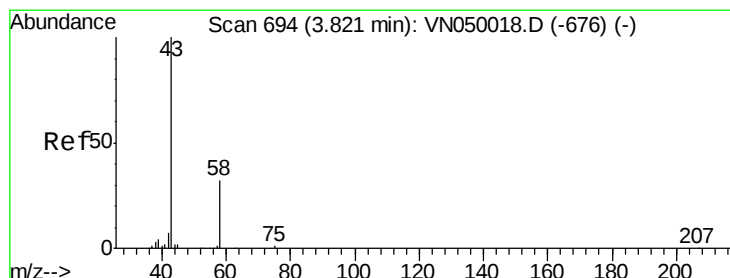
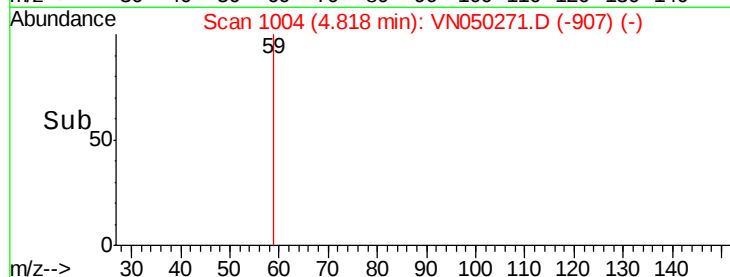
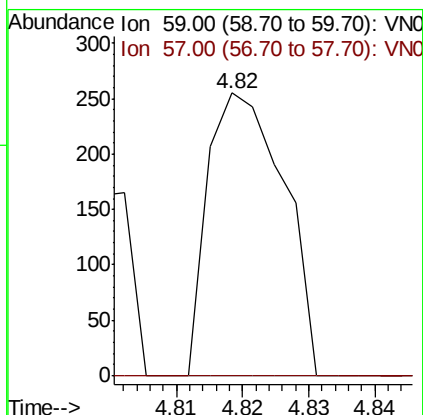
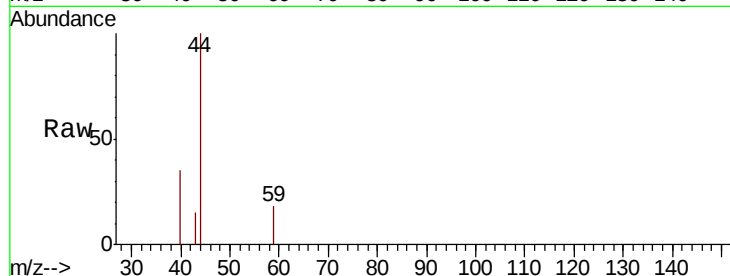




#11
Tert butyl alcohol
Concen: 0.31 ug/l
RT: 4.82 min Scan# 1004
Delta R.T. 0.01 min
Lab File: VN050271.D
Acq: 2 Aug 2018 18:14

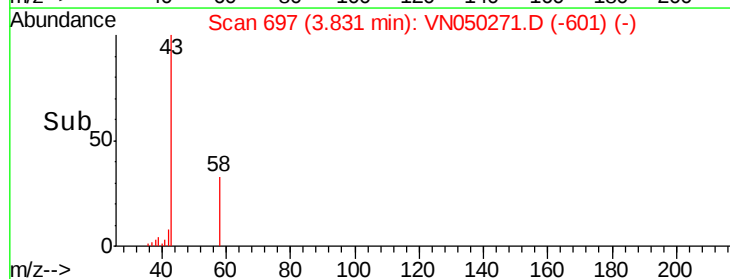
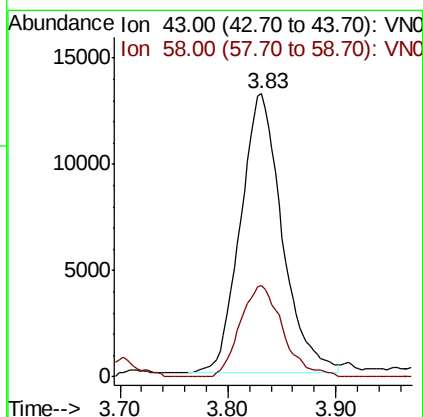
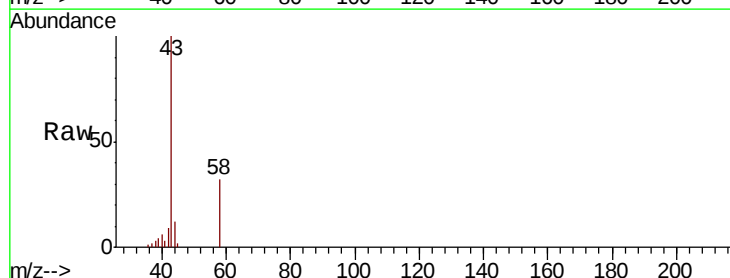
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#09

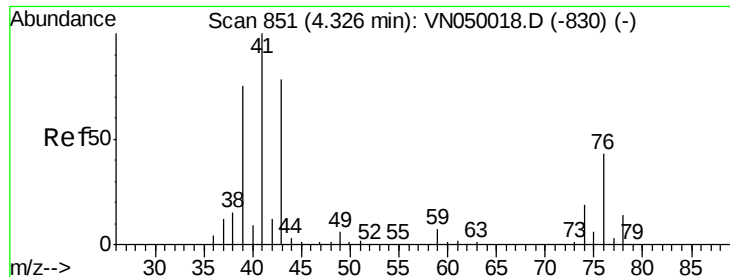
Tot Ion: 59 Resp: 203
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 13.00 ug/l
RT: 3.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VN050271.D
Acq: 2 Aug 2018 18:14

Tgt Ion: 43 Resp: 35432
Ion Ratio Lower Upper
43 100
58 32.7 25.8 38.8

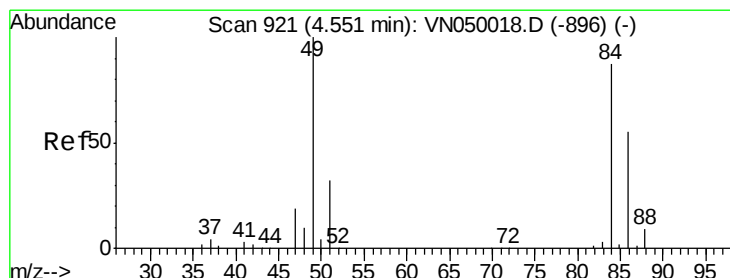
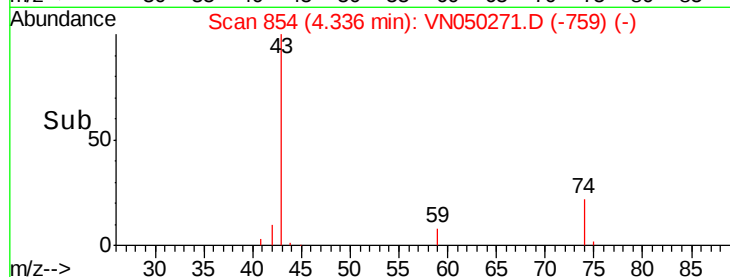
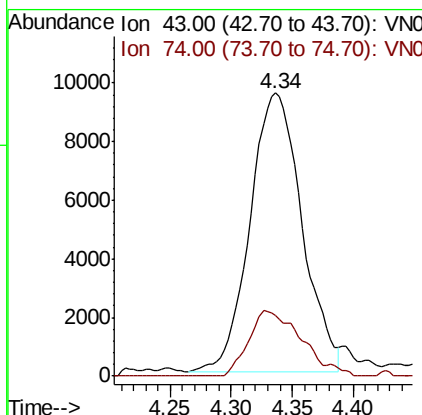
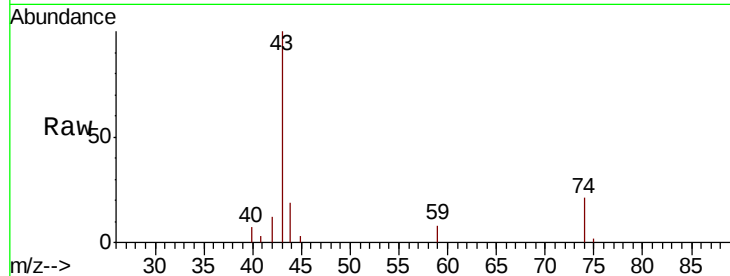




#18
Methyl Acetate
Concen: 1.91 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.00 min
Lab File: VN050271.D
Acq: 2 Aug 2018 18:14

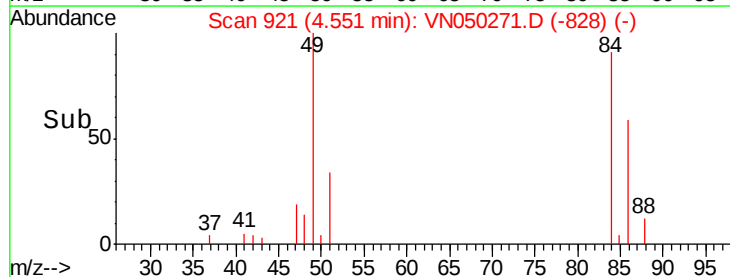
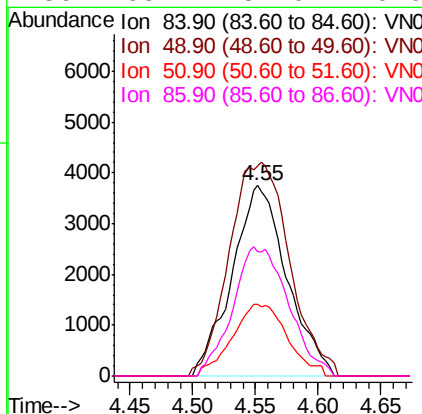
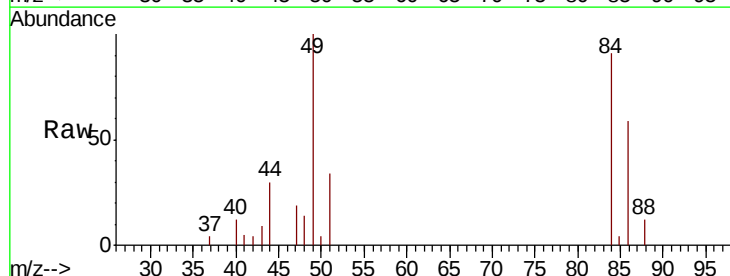
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#09

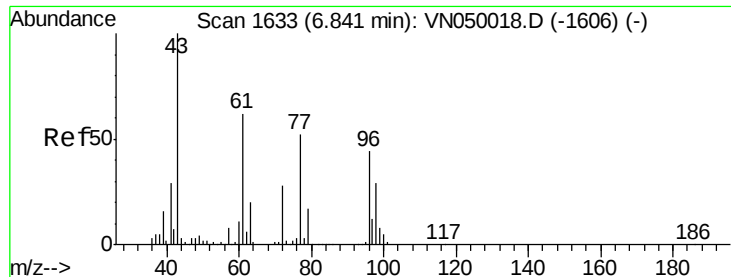
Tot Ion: 43 Resp: 28032
Ion Ratio Lower Upper
43 100
74 23.9 19.2 28.8



#20
Methylene Chloride
Concen: 0.22 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050271.D
Acq: 2 Aug 2018 18:14

Tgt Ion: 84 Resp: 11436
Ion Ratio Lower Upper
84 100
49 110.0 94.8 142.2
51 37.4 28.3 42.5
86 65.2 51.0 76.6

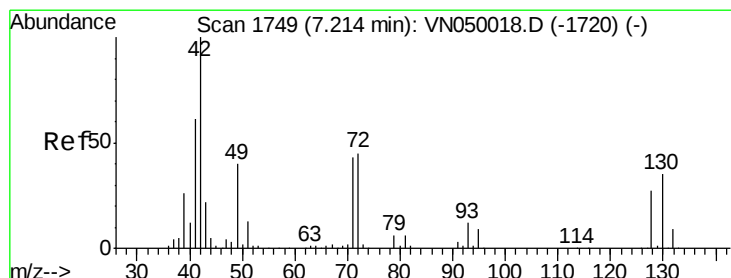
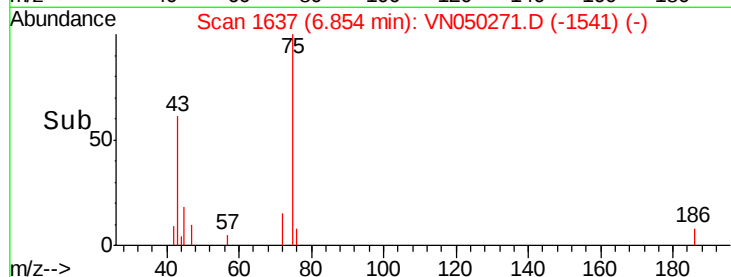
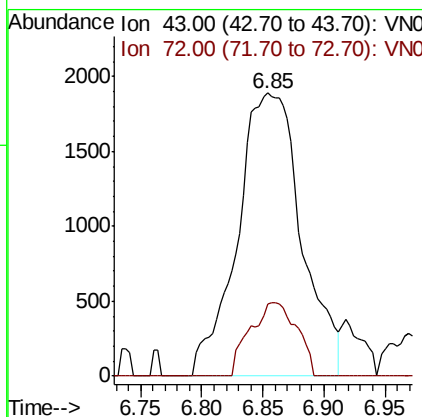
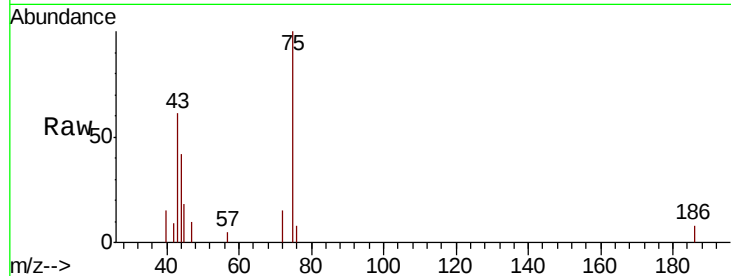




#25
2-Butanone
Concen: 2.06 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050271.D
Acq: 2 Aug 2018 18:14

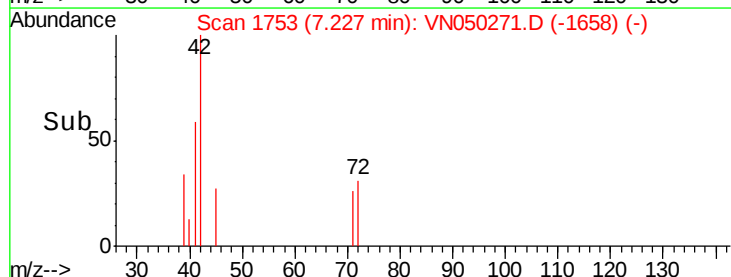
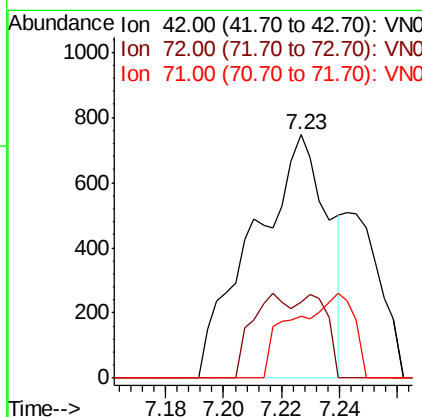
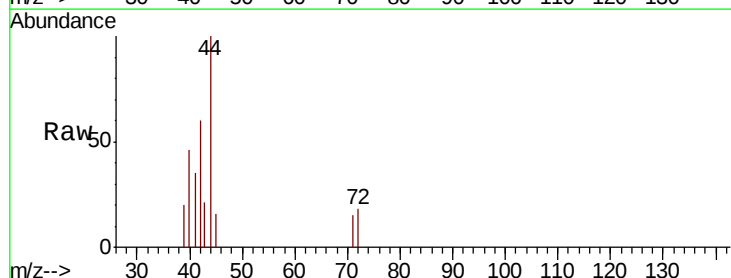
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#09

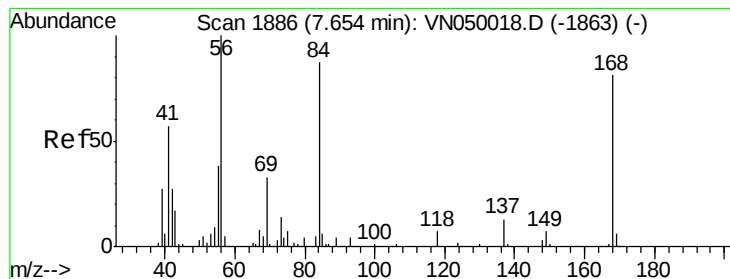
Tot Ion: 43 Resp: 6896
Ion Ratio Lower Upper
43 100
72 25.3 21.5 32.3



#29
Tetrahydrofuran
Concen: 0.62 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VN050271.D
Acq: 2 Aug 2018 18:14

Tgt Ion: 42 Resp: 1337
Ion Ratio Lower Upper
42 100
72 18.3 35.9 53.9#
71 0.0 33.7 50.5#





#31

Cyclohexane

Concen: 0.96 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050271.D

Acq: 2 Aug 2018 18:14

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#09

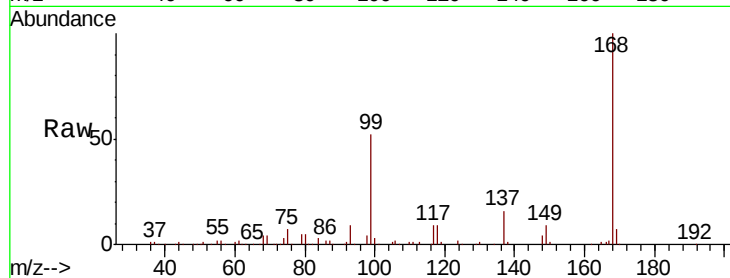
Tot Ion: 56 Resp: 12472

Ion Ratio Lower Upper

56 100

69 174.1 26.2 39.4#

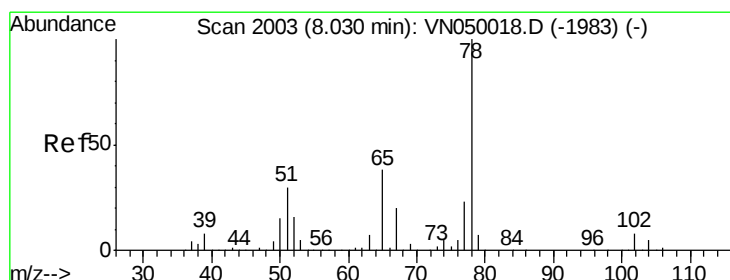
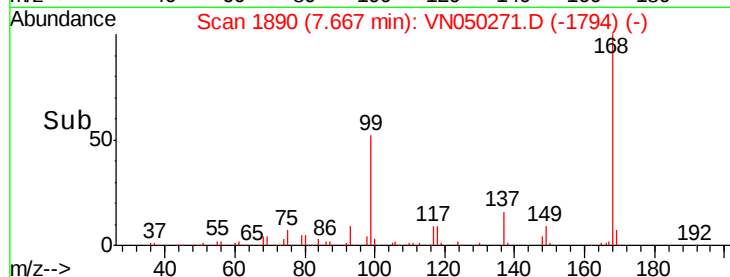
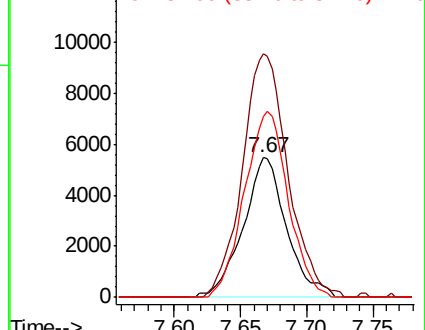
84 129.3 67.4 101.0#



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: 52.09 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050271.D

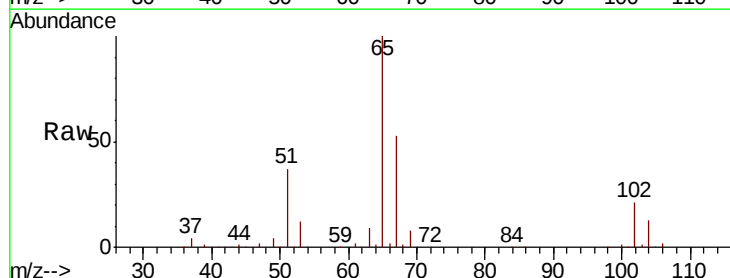
Acq: 2 Aug 2018 18:14

Tgt Ion: 65 Resp: 457789

Ion Ratio Lower Upper

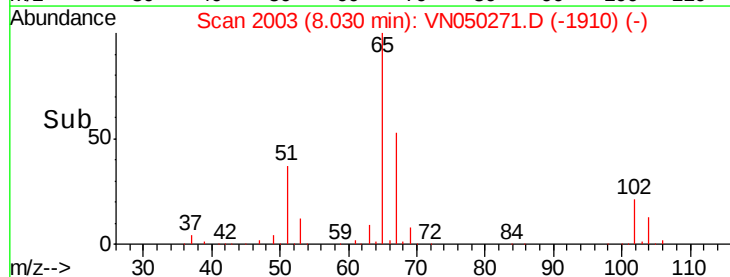
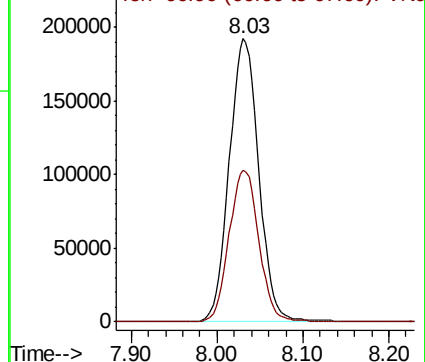
65 100

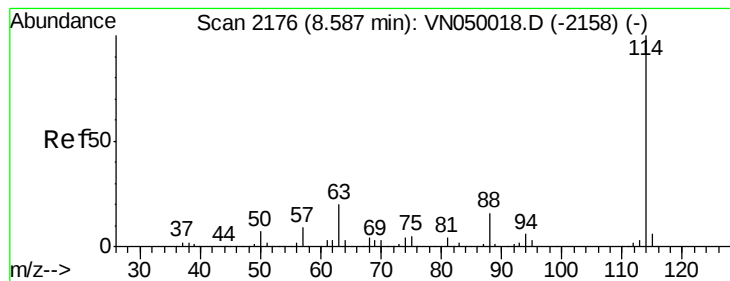
67 54.0 0.0 108.4



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: VN050271.D

Acq: 2 Aug 2018 18:14

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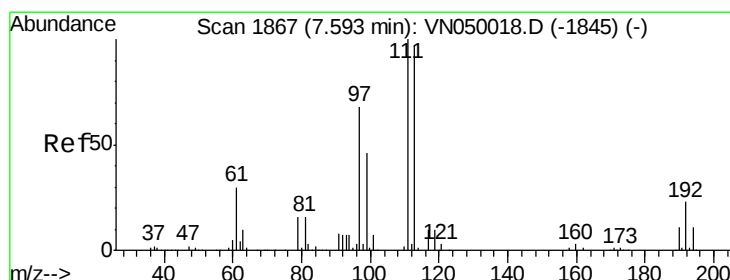
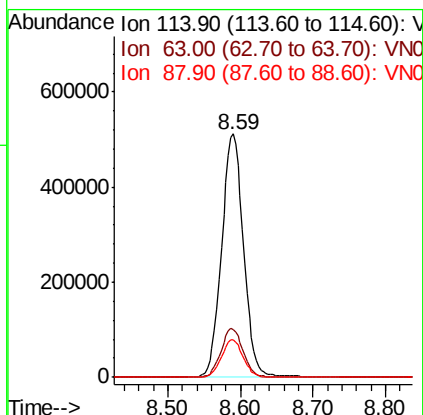
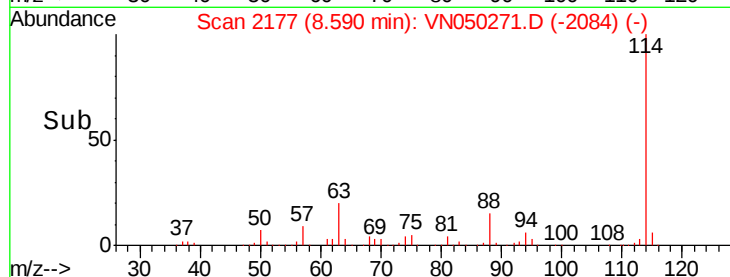
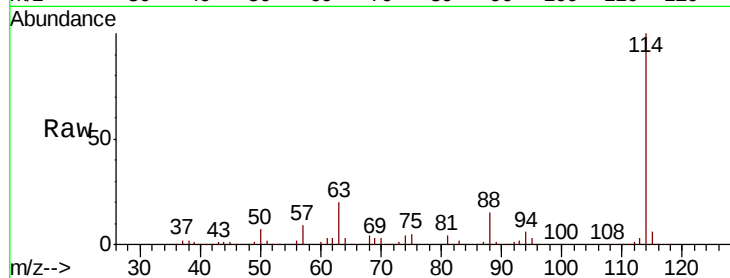
Tot Ion:114 Resp: 1074439

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.0

88 15.4 0.0 31.2



#35

Dibromofluoromethane

Concen: 46.55 ug/l

RT: 7.60 min Scan# 1868

Delta R.T. 0.00 min

Lab File: VN050271.D

Acq: 2 Aug 2018 18:14

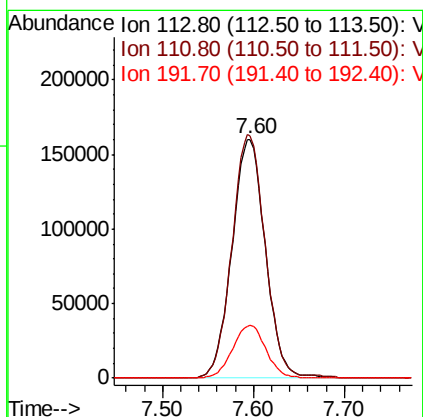
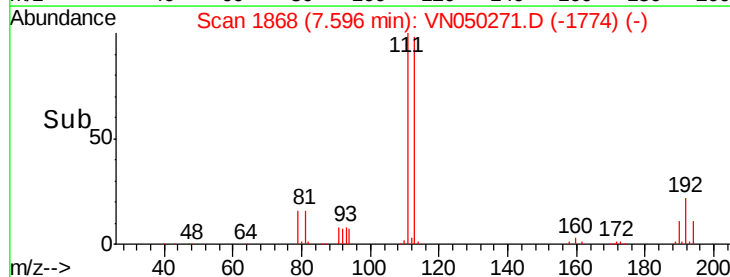
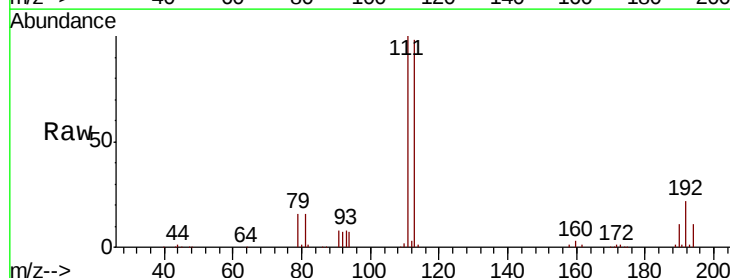
Tgt Ion:113 Resp: 408381

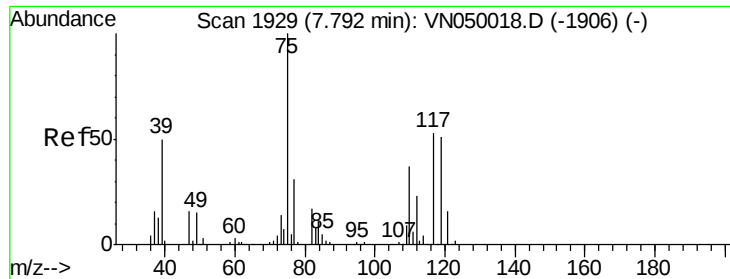
Ion Ratio Lower Upper

113 100

111 100.9 80.7 121.1

192 22.2 17.8 26.6

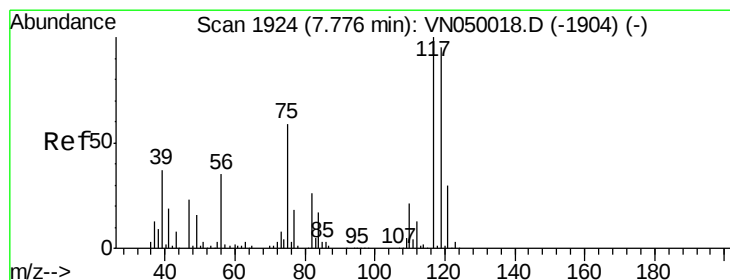
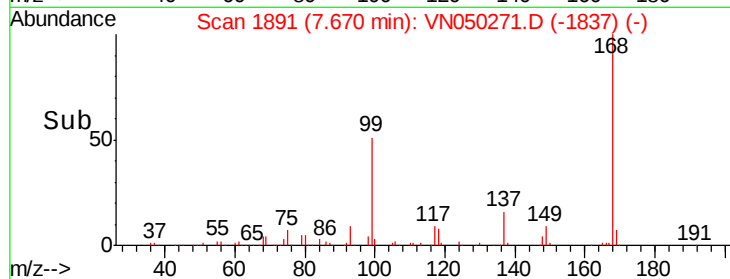
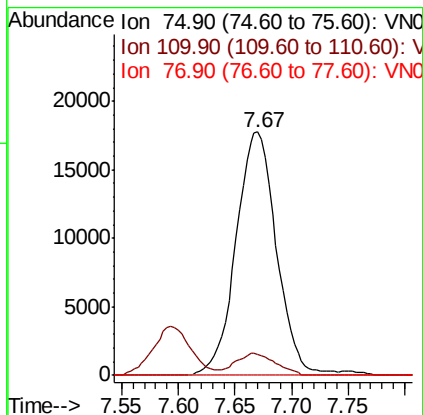
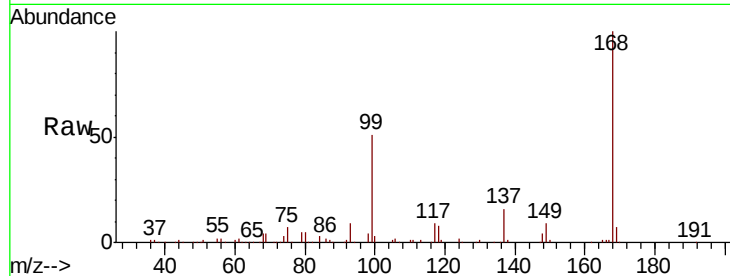




#36
 1,1-Dichloropropene
 Concen: 3.65 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050271.D
 Acq: 2 Aug 2018 18:14

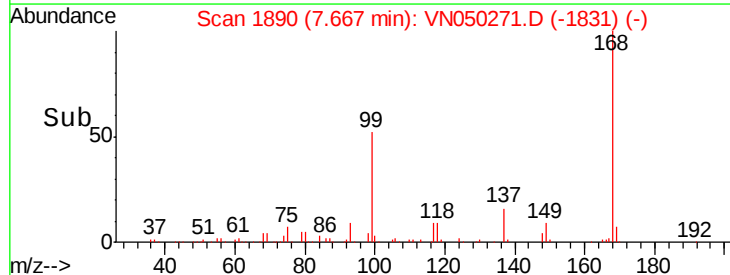
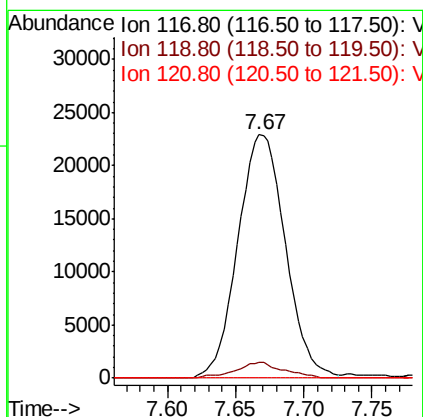
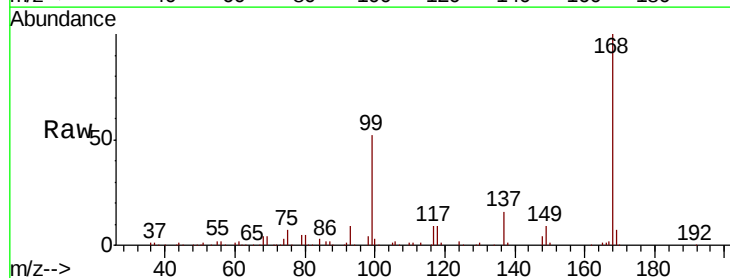
Instrument :
 MSVOA_N
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 PB111674ZHE#09

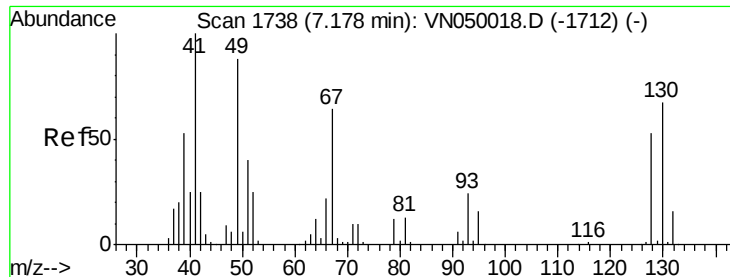
Tot Ion	75	Resp	44231
Ion Ratio	Lower	Upper	
75	100		
110	9.0	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 4.31 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050271.D
 Acq: 2 Aug 2018 18:14

Tgt Ion	117	Resp	55410
Ion Ratio	Lower	Upper	
117	100		
119	6.5	77.4	116.0#
121	0.0	23.9	35.9#

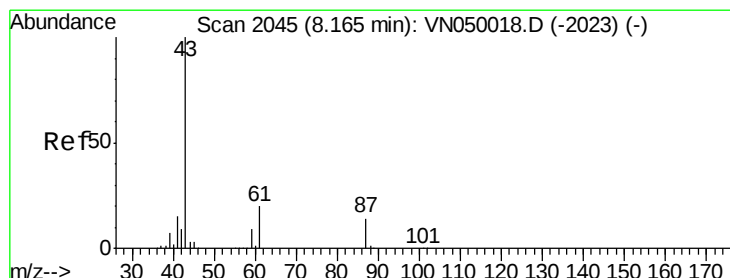
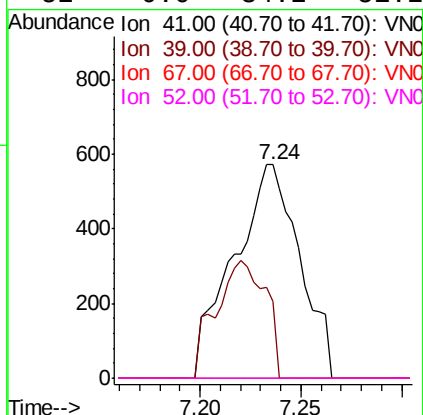
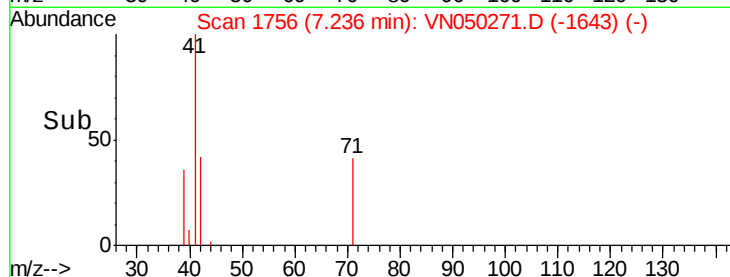
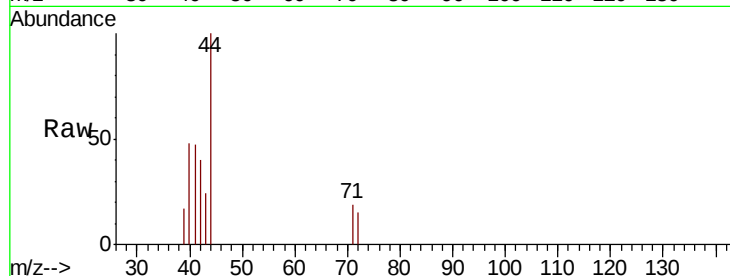




#41
Methacrylonitrile
Concen: 3.03 ug/l
RT: 7.24 min Scan# 1756
Delta R.T. 0.06 min
Lab File: VN050271.D
Acq: 2 Aug 2018 18:14

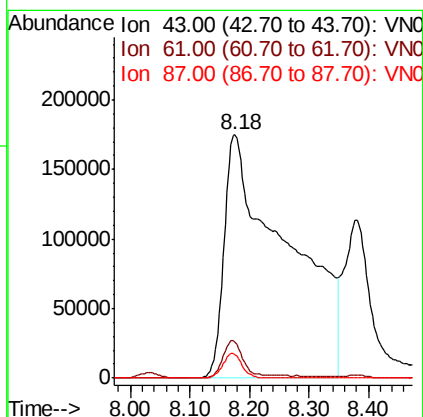
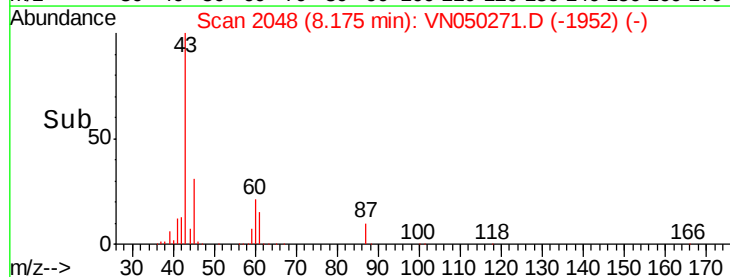
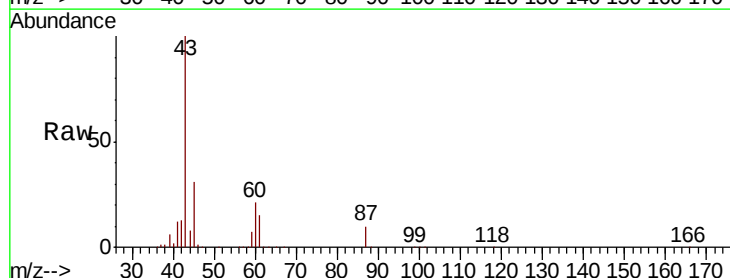
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#09

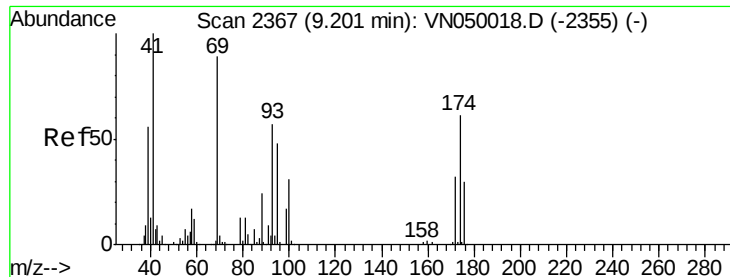
Tot Ion: 41 Resp: 1301
Ion Ratio Lower Upper
41 100
39 41.5 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 80.95 ug/l
RT: 8.18 min Scan# 2048
Delta R.T. 0.01 min
Lab File: VN050271.D
Acq: 2 Aug 2018 18:14

Tgt Ion: 43 Resp: 1276285
Ion Ratio Lower Upper
43 100
61 5.0 15.8 23.6#
87 3.1 10.3 15.5#

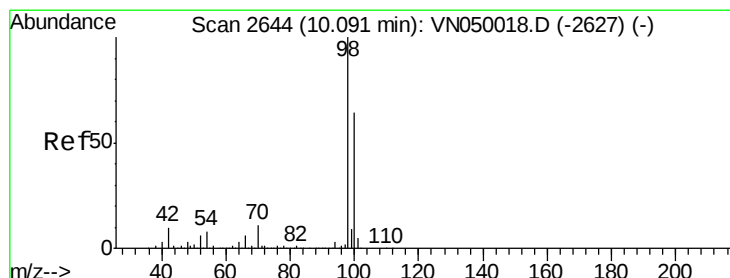
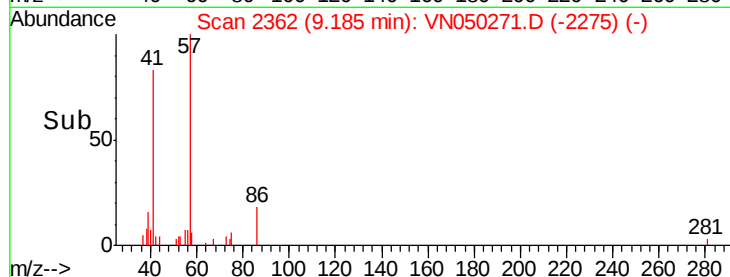
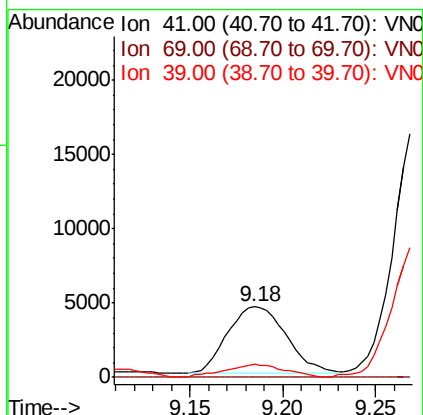
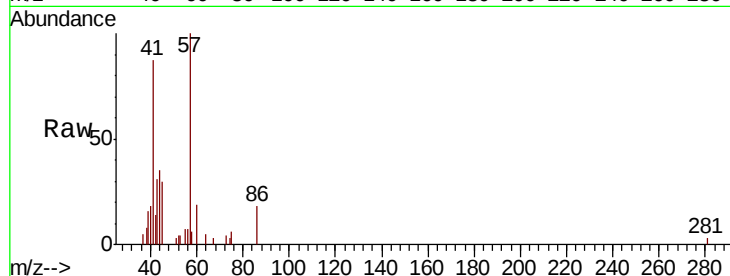




#48
Methyl methacrylate
Concen: 1.36 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050271.D
Acq: 2 Aug 2018 18:14

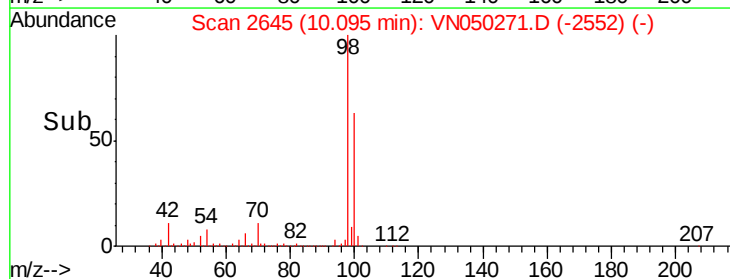
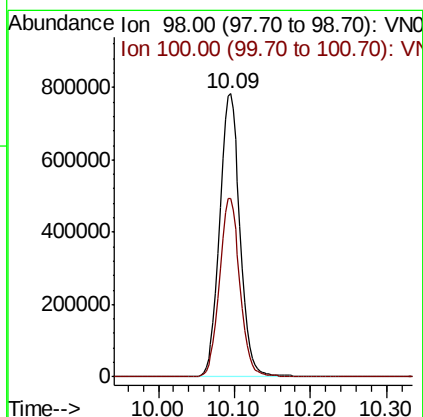
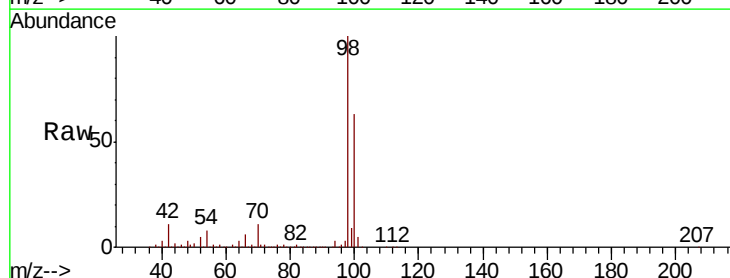
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#09

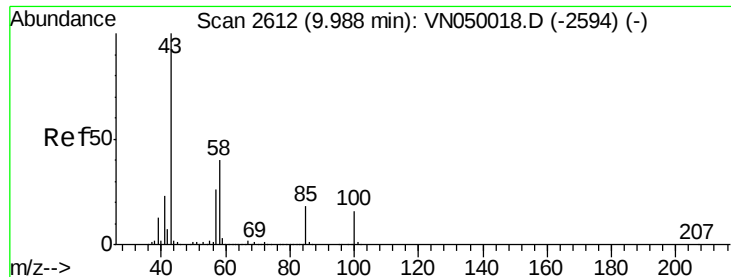
Tot Ion: 41 Resp: 9867
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 19.8 43.9 65.9#



#50
Toluene-d8
Concen: 45.17 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050271.D
Acq: 2 Aug 2018 18:14

Tgt Ion: 98 Resp: 1456918
Ion Ratio Lower Upper
98 100
100 63.1 50.7 76.1

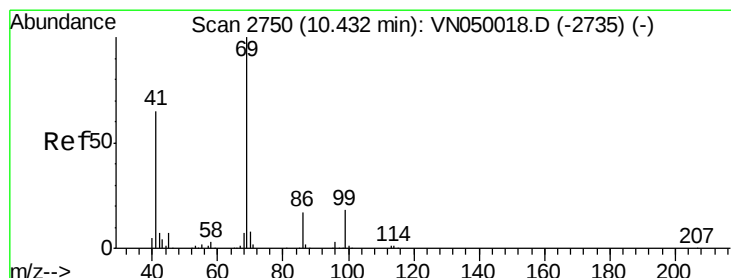
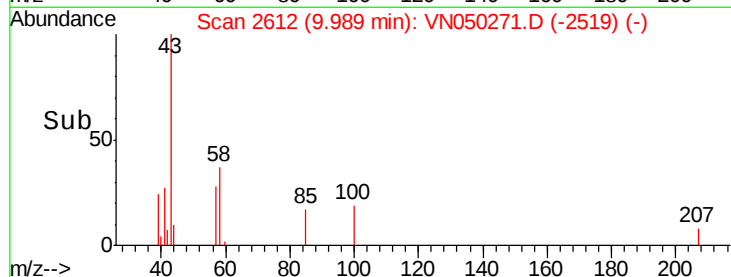
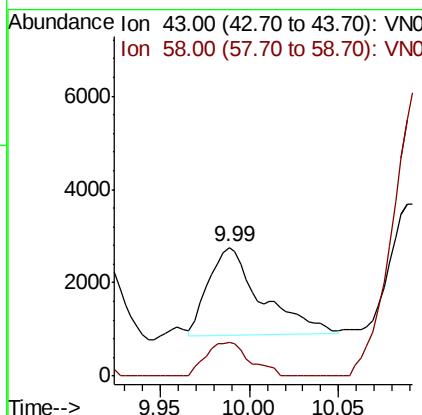
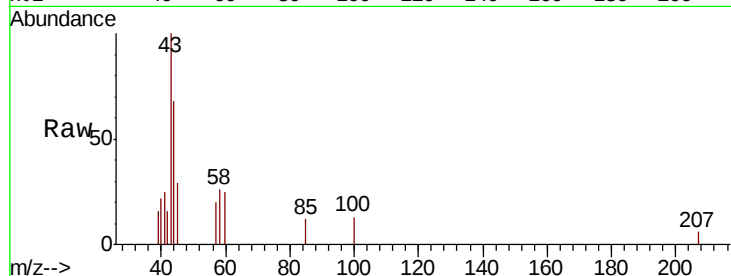




#51
 4-Methyl-2-Pentanone
 Concen: 0.47 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. 0.00 min
 Lab File: VN050271.D
 Acq: 2 Aug 2018 18:14

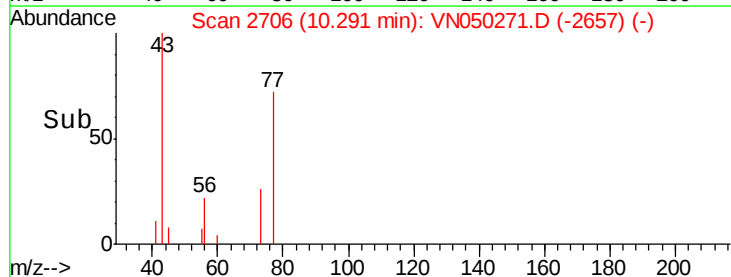
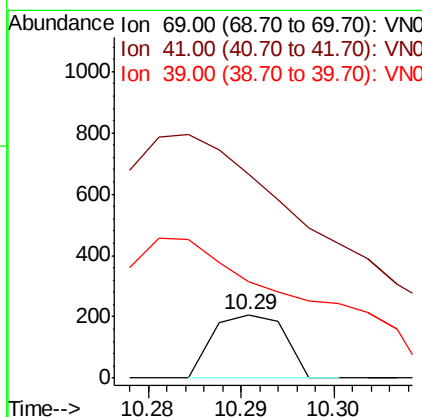
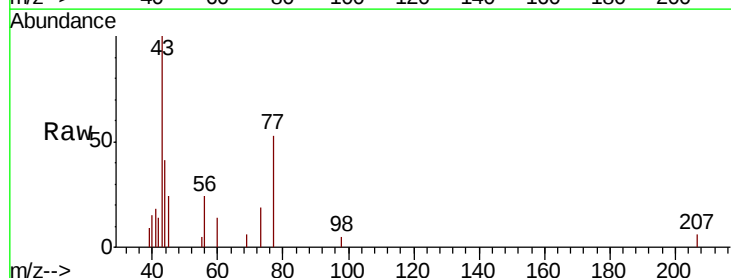
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#09

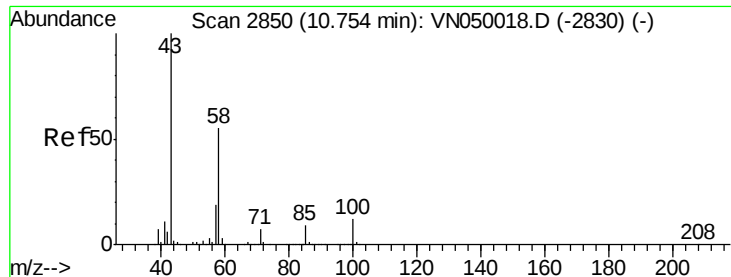
Tot Ion: 43 Resp: 3885
 Ion Ratio Lower Upper
 43 100
 58 31.8 31.9 47.9#



#56
 Ethyl methacrylate
 Concen: 2.04 ug/l
 RT: 10.29 min Scan# 2706
 Delta R.T. -0.14 min
 Lab File: VN050271.D
 Acq: 2 Aug 2018 18:14

Tgt Ion: 69 Resp: 110
 Ion Ratio Lower Upper
 69 100
 41 1256.4 51.0 76.4#
 39 671.8 26.6 40.0#





#59

2-Hexanone

Concen: 9.05 ug/l

RT: 10.77 min Scan# 2855

Delta R.T. 0.02 min

Lab File: VN050271.D

Acq: 2 Aug 2018 18:14

Instrument :

MSVOA_N

ClientSampleId :

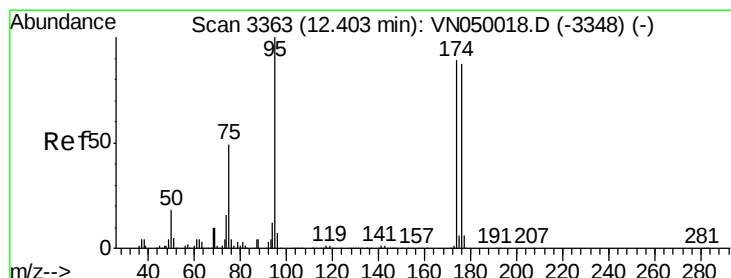
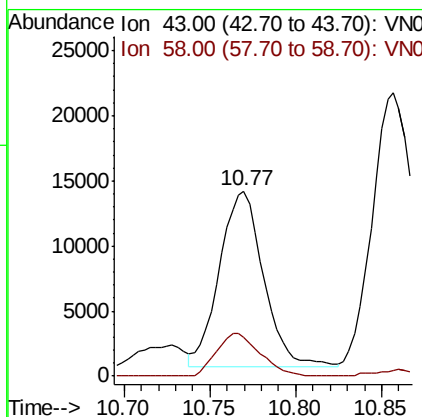
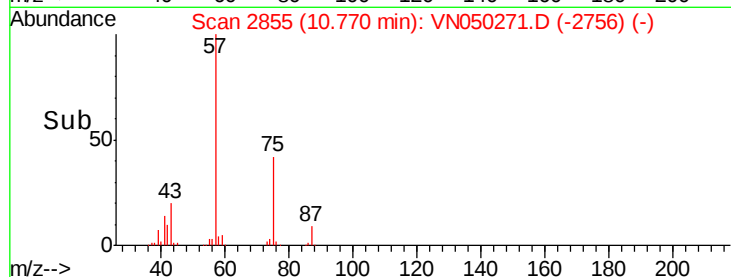
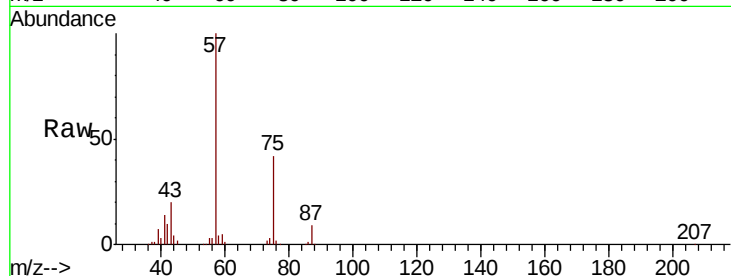
PB111674ZHE#09

Tot Ion: 43 Resp: 24113

Ion Ratio Lower Upper

43 100

58 23.9 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 37.65 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050271.D

Acq: 2 Aug 2018 18:14

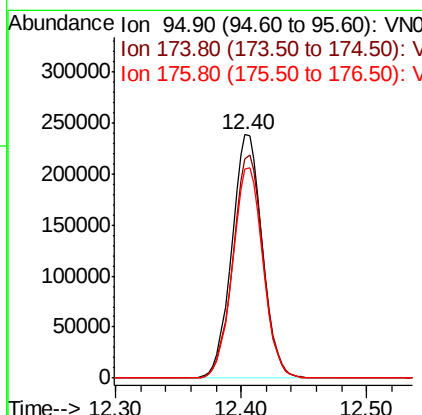
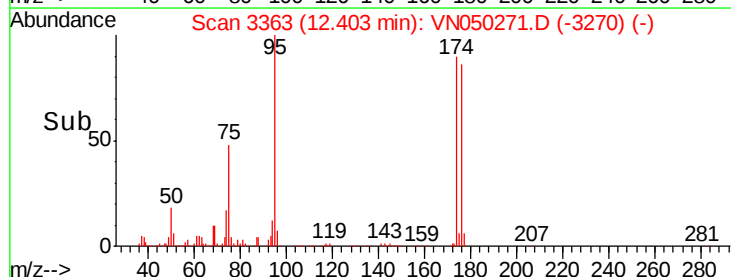
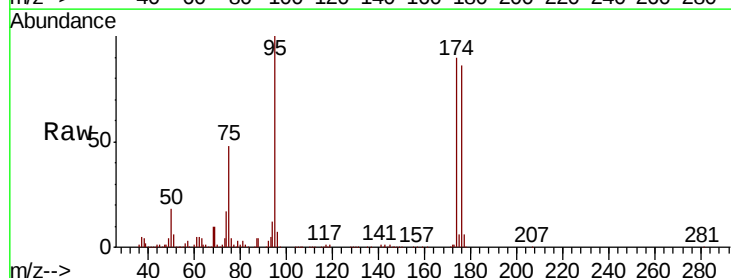
Tgt Ion: 95 Resp: 399835

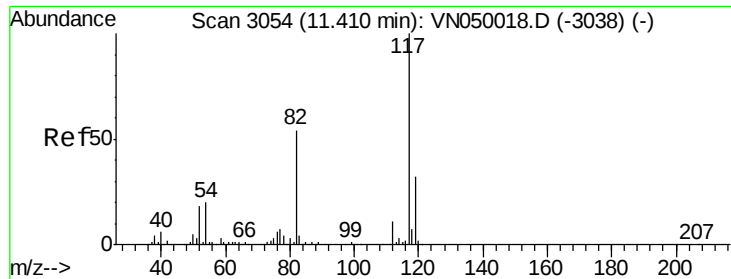
Ion Ratio Lower Upper

95 100

174 91.8 0.0 178.2

176 86.7 0.0 173.4

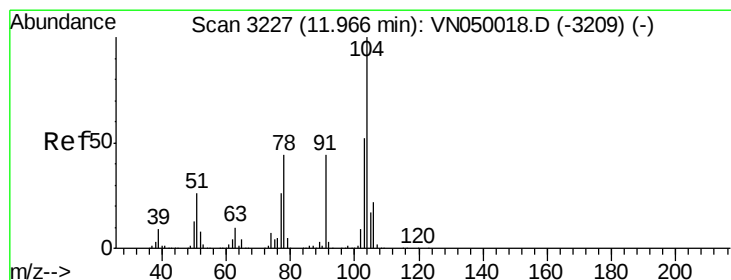
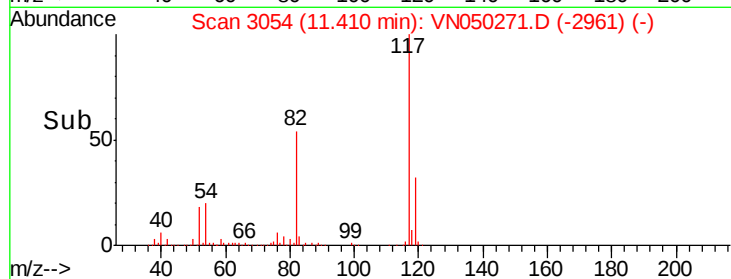
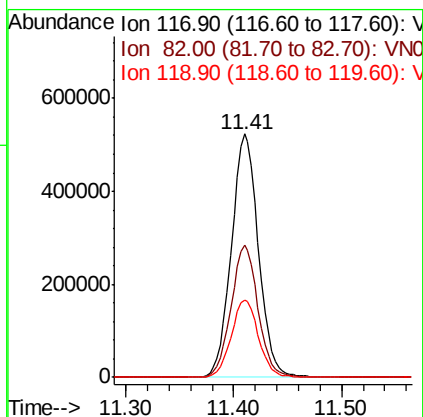
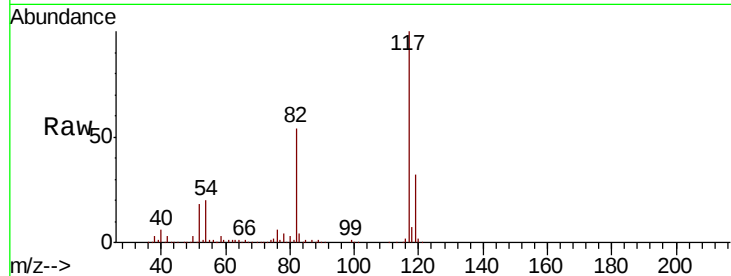




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050271.D
Acq: 2 Aug 2018 18:14

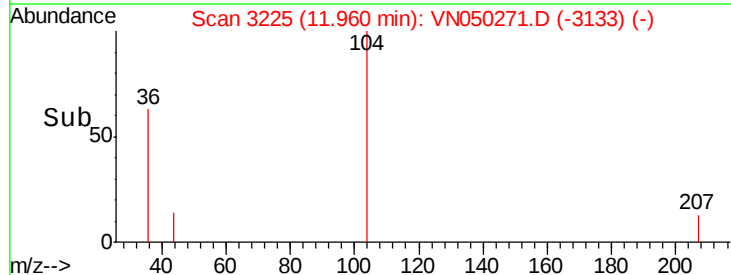
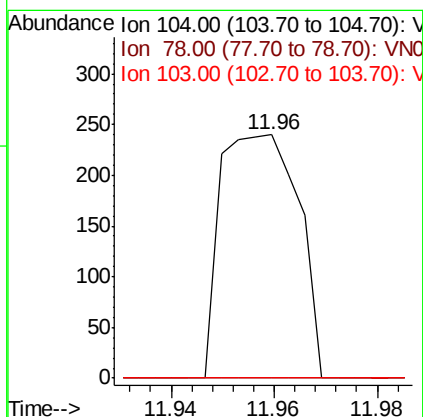
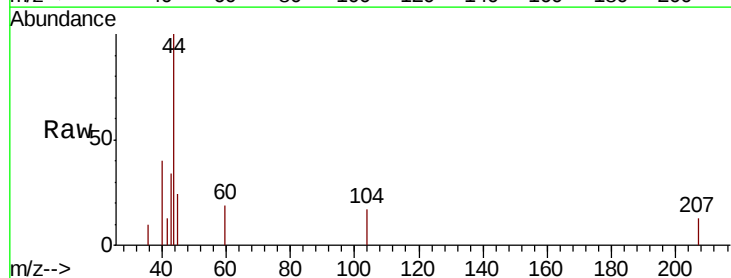
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#09

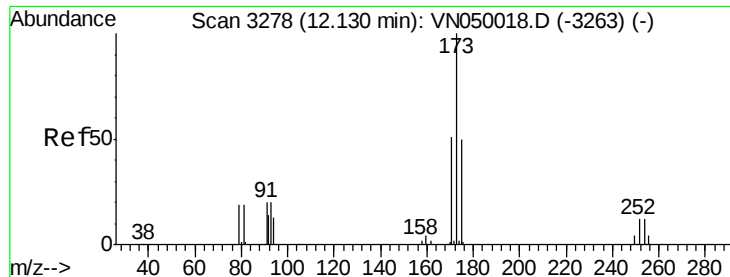
Tot Ion:117 Resp: 914445
Ion Ratio Lower Upper
117 100
82 54.2 43.7 65.5
119 31.9 26.1 39.1



#70
Styrene
Concen: 0.93 ug/l
RT: 11.96 min Scan# 3225
Delta R.T. -0.01 min
Lab File: VN050271.D
Acq: 2 Aug 2018 18:14

Tgt Ion:104 Resp: 250
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 0.0 45.0 67.6#





#71

Bromoform

Concen: 0.44 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050271.D

Acq: 2 Aug 2018 18:14

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#09

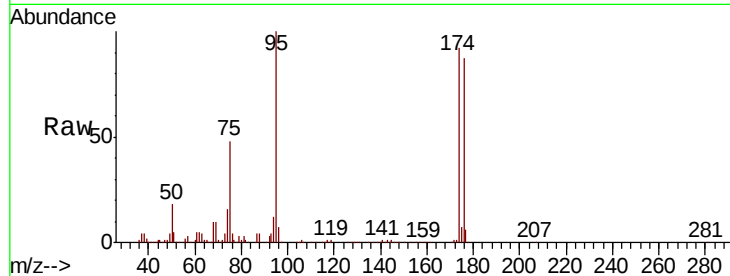
Tot Ion:173 Resp: 2860

Ion Ratio Lower Upper

173 100

175 791.7 24.1 72.2#

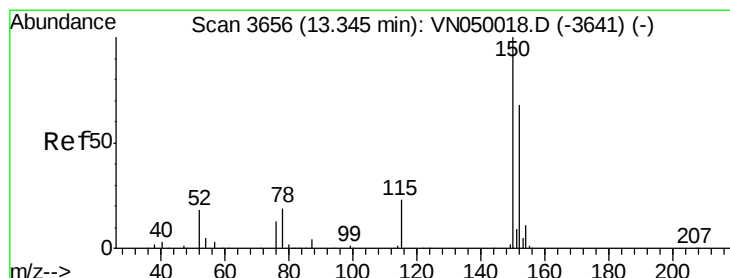
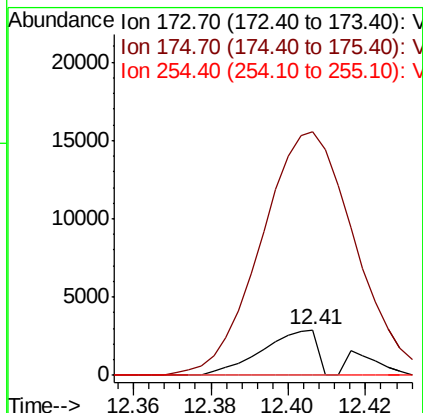
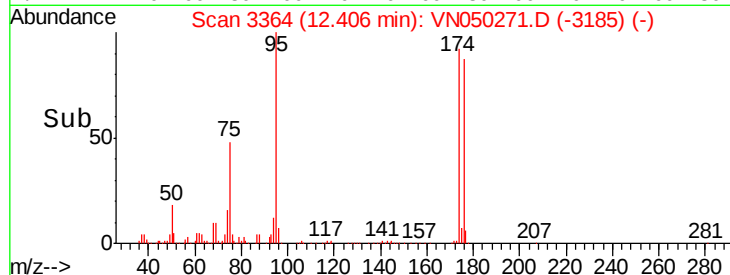
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050271.D

Acq: 2 Aug 2018 18:14

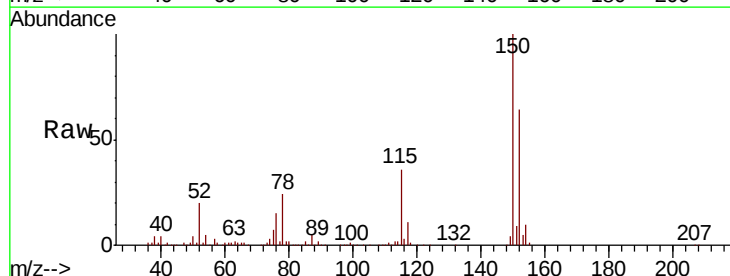
Tgt Ion:152 Resp: 339938

Ion Ratio Lower Upper

152 100

115 56.3 27.8 83.3

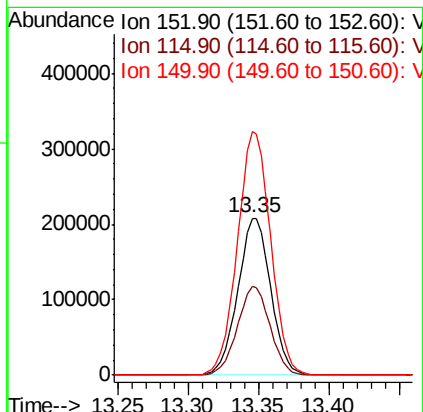
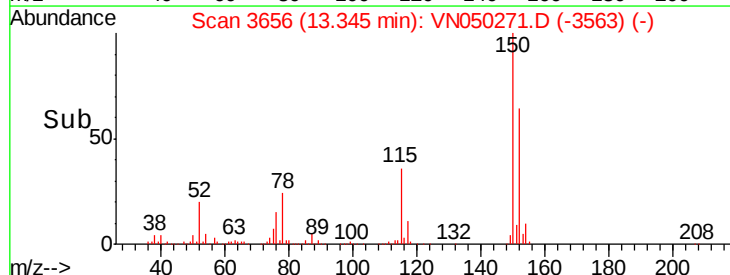
150 156.7 0.0 348.6

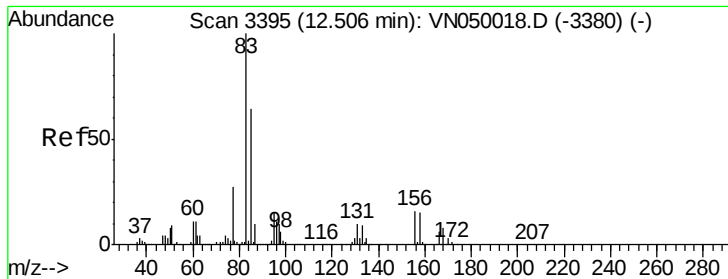


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3364

Delta R.T. -0.10 min

Lab File: VN050271.D

Acq: 2 Aug 2018 18:14

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#09

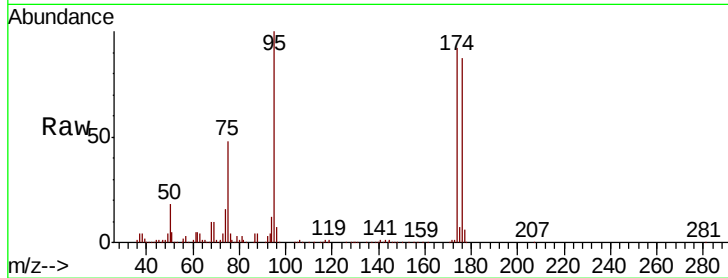
Tot Ion: 83 Resp: 185

Ion Ratio Lower Upper

83 100

131 198.4 5.1 15.3#

85 0.0 32.3 96.8#

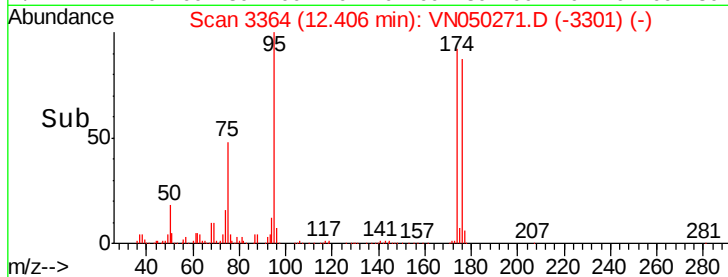


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO

12.41



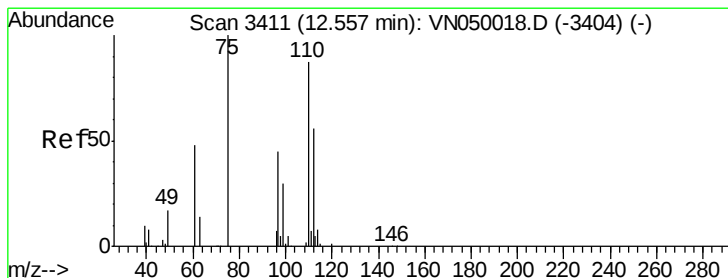
Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO

12.41

Time-->



#76

1,2,3-Trichloropropane

Concen: 30.54 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050271.D

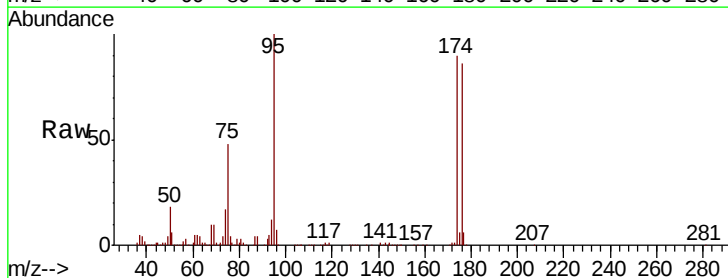
Acq: 2 Aug 2018 18:14

Tgt Ion: 75 Resp: 192929

Ion Ratio Lower Upper

75 100

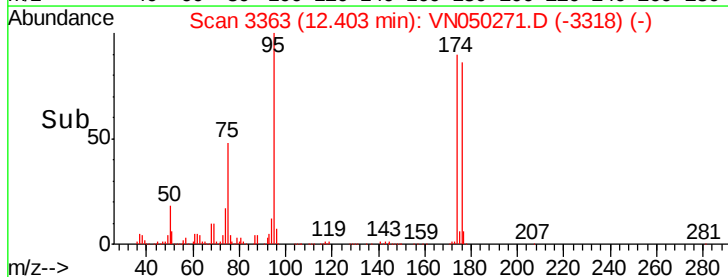
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

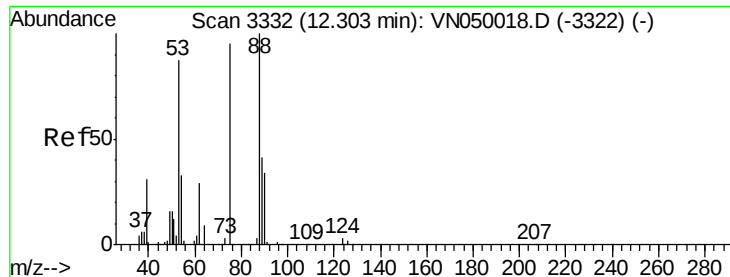


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 96.86 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050271.D

Acq: 2 Aug 2018 18:14

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#09

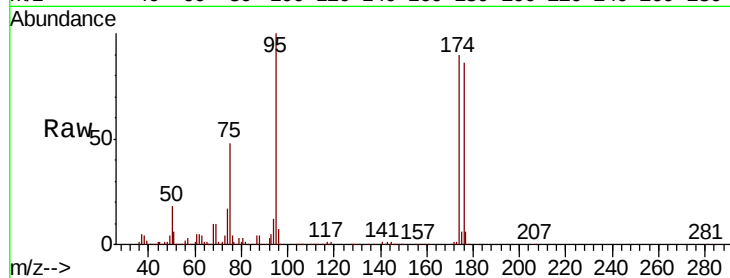
Tot Ion: 75 Resp: 192929

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

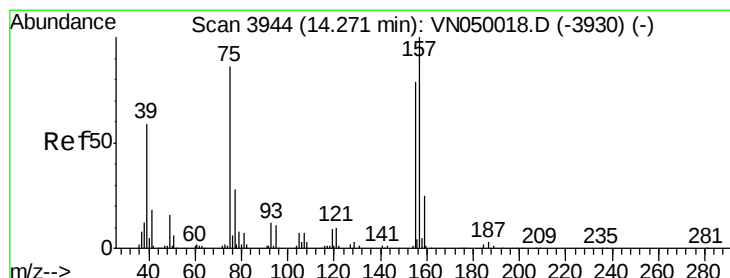
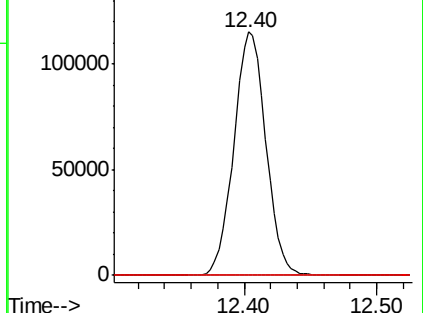
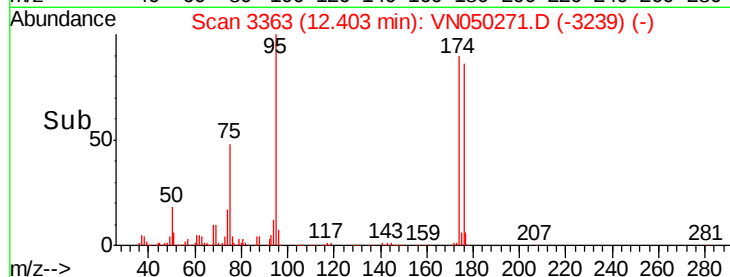
89 0.0 36.0 54.0#



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: VN050271.D

Acq: 2 Aug 2018 18:14

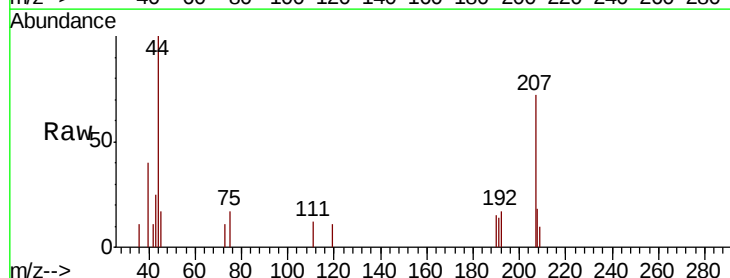
Tgt Ion: 75 Resp: 174

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

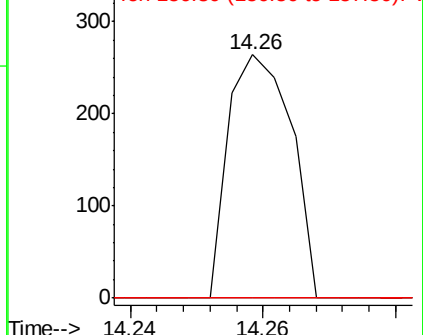
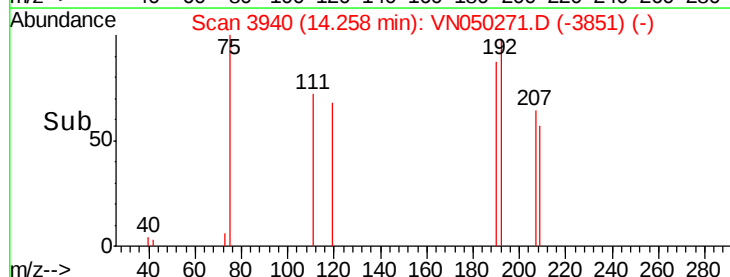
157 0.0 57.2 171.6#

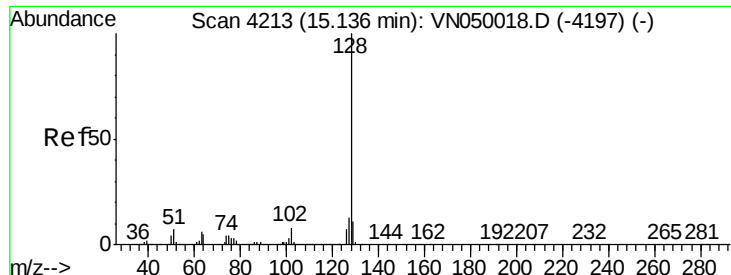


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

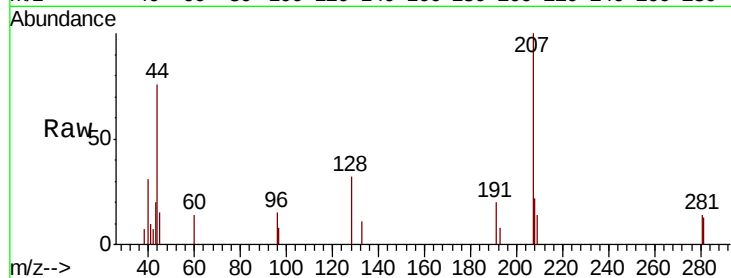




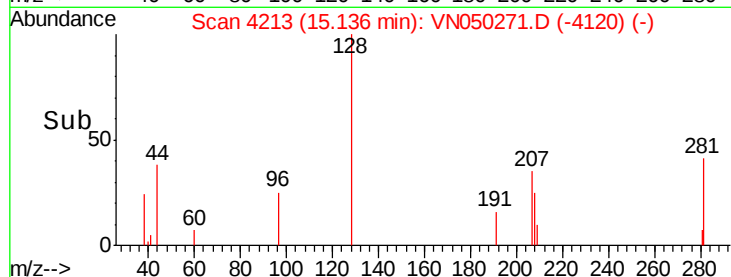
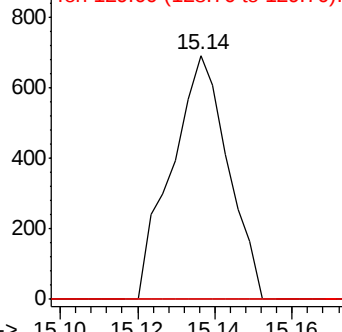
#95
 Naphthalene
 Concen: 4.46 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN050271.D
 Acq: 2 Aug 2018 18:14

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#09

Tot Ion:128 Resp: 700
 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



Time--> 15.10 15.12 15.14 15.16