

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101918\
 Data File : VN051946.D
 Acq On : 19 Oct 2018 14:27
 Operator : MD\SY
 Sample : PB113937ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113937ZHE#07

Quant Time: Oct 19 23:08:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 19 05:11:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	942819	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1393526	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1214991	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	422046	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	528855	60.51	ug/l	0.00
Spiked Amount			Recovery	=	121.02%	
35) Dibromofluoromethane	7.59	113	517179	58.39	ug/l	0.00
Spiked Amount			Recovery	=	116.78%	
50) Toluene-d8	10.09	98	1904304	59.07	ug/l	0.00
Spiked Amount			Recovery	=	118.14%	
62) 4-Bromofluorobenzene	12.40	95	525254	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	

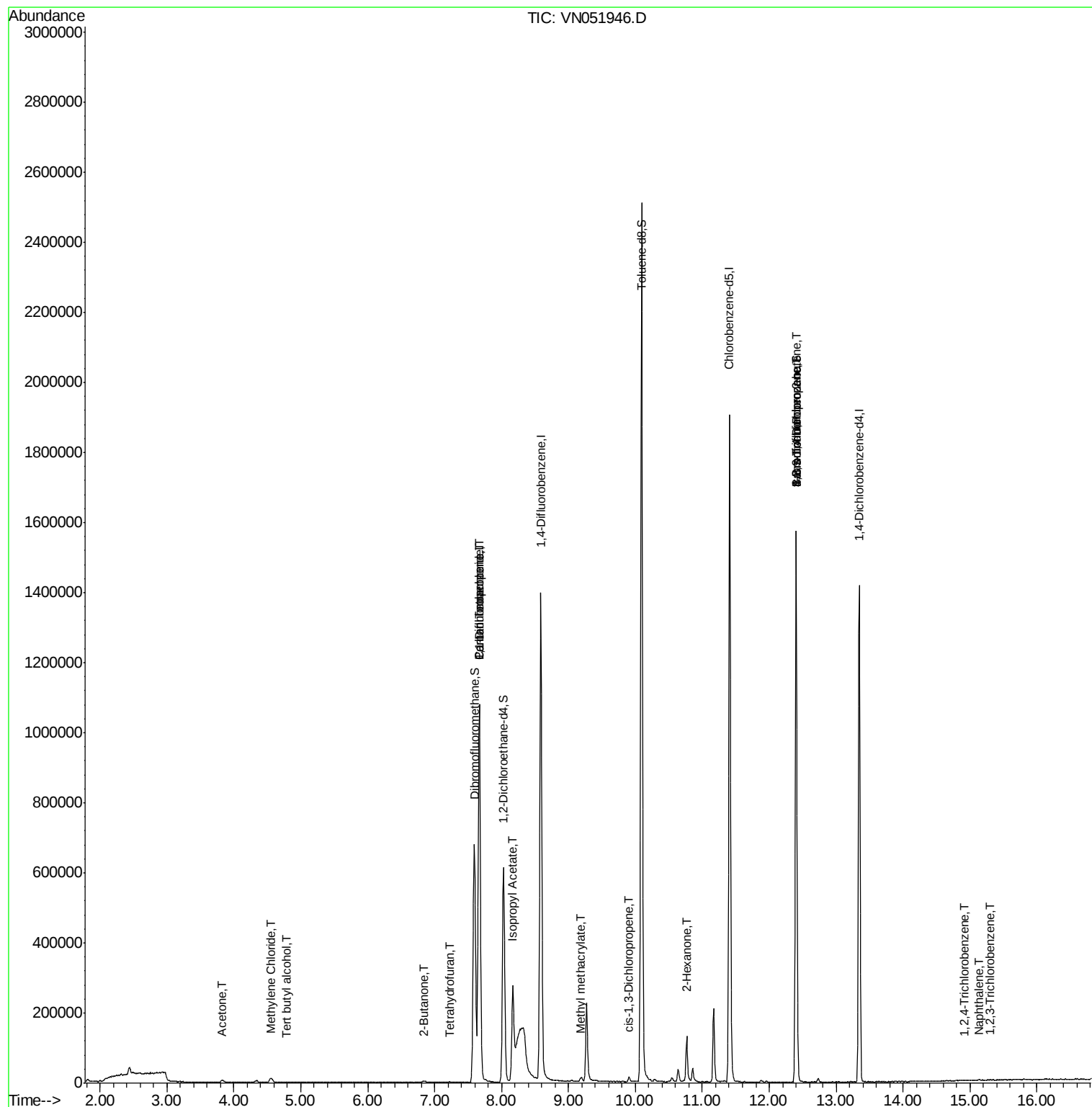
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	2805	Below Cal	#	43
11) Tert butyl alcohol	4.78	59	104	0.204	ug/l #	72
13) Acrolein	3.61	56	104	Below Cal	#	59
16) Acetone	3.82	43	10176	6.575	ug/l #	86
18) Methyl Acetate	4.33	43	6473	Below Cal	#	82
20) Methylene Chloride	4.55	84	6450	0.820	ug/l	98
25) 2-Butanone	6.84	43	2462	1.113	ug/l	96
29) Tetrahydrofuran	7.22	42	828	0.613	ug/l #	70
31) Cyclohexane	7.66	56	15982	Below Cal	#	36
36) 1,1-Dichloropropene	7.67	75	57981	5.361	ug/l #	48
37) Ethyl Acetate	6.94	43	190	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	86011	6.753	ug/l #	15
43) Isopropyl Acetate	8.17	43	325316	32.655	ug/l #	84
48) Methyl methacrylate	9.18	41	2925	0.670	ug/l #	15
54) cis-1,3-Dichloropropene	9.90	75	3126	0.265	ug/l #	65
59) 2-Hexanone	10.76	43	19108	5.660	ug/l #	55
71) Bromoform	12.40	173	4668	3.876	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	265187	51.696	ug/l #	100
79) 2-Chlorotoluene	12.66	91	205	Below Cal	#	60
81) trans-1,4-Dichloro-2-buten	12.40	75	265187	169.879	ug/l #	14
93) 1,2,4-Trichlorobenzene	14.91	180	216	4.090	ug/l #	52
95) Naphthalene	15.13	128	823	4.116	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.31	180	237	2.947	ug/l #	38

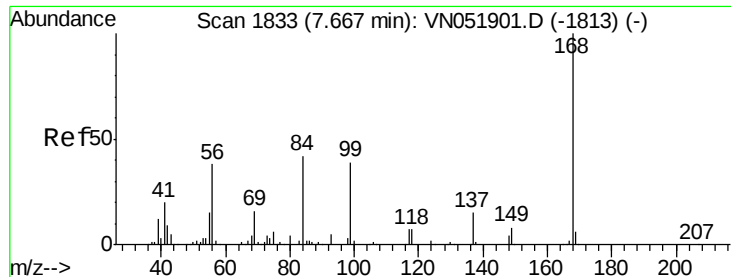
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN101918\
Data File : VN051946.D
Acq On : 19 Oct 2018 14:27
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Misc : 5.00mL/MSVOA N/WATER
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Instrument :
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ClientSampleId :
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Quant Time: Oct 19 23:08:08 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 19 05:11:28 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

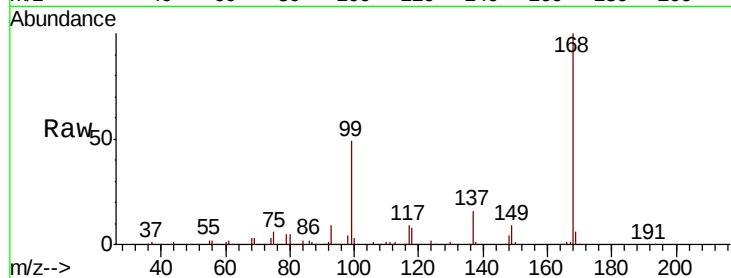
PB113937ZHE#07

Tot Ion:168 Resp: 942819

Ion Ratio Lower Upper

168 100

99 49.4 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VN051946.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051946.D (-1740) (-)

7.67

400000

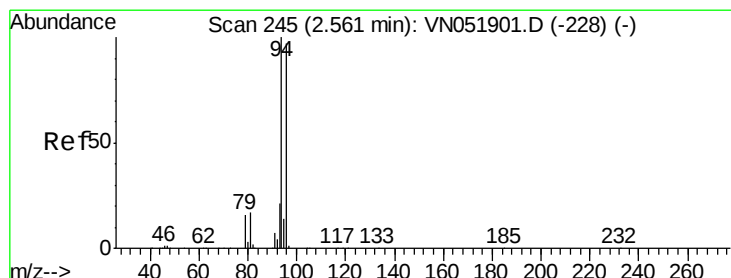
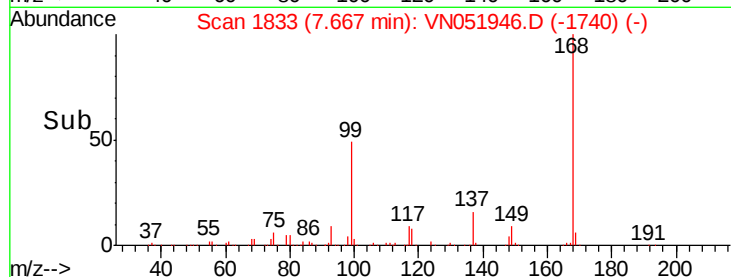
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051946.D

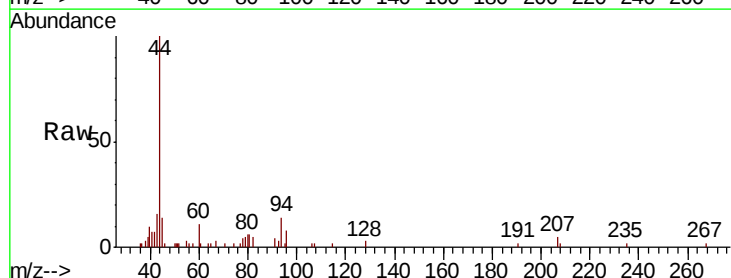
Acq: 19 Oct 2018 14:27

Tgt Ion: 94 Resp: 2805

Ion Ratio Lower Upper

94 100

96 41.0 77.5 116.3#



Abundance Ion 93.90 (93.60 to 94.60): VN051946.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VN051946.D (-152) (-)

2.57

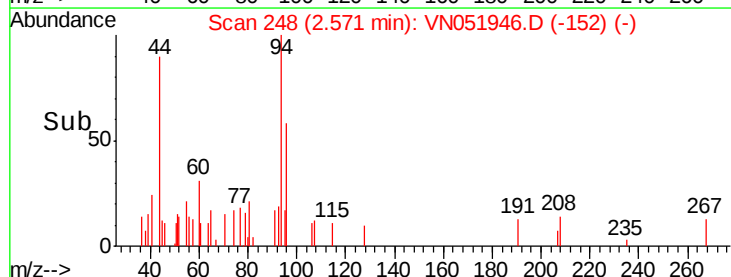
1500

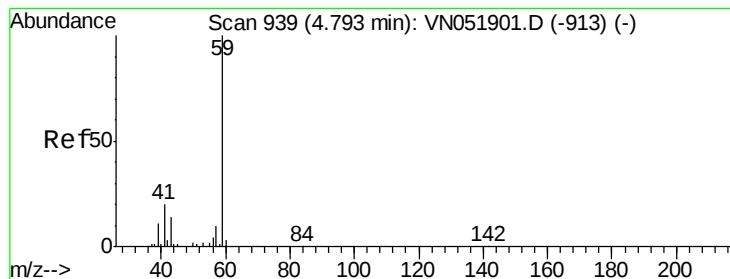
1000

500

0

Time-->



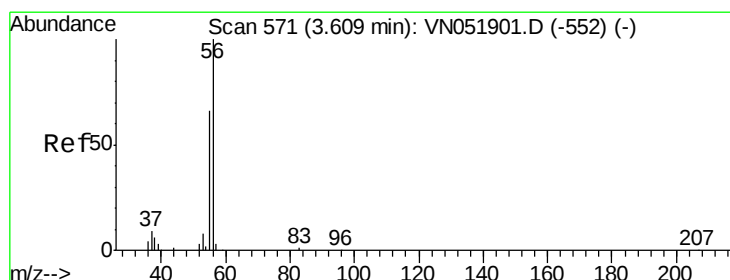
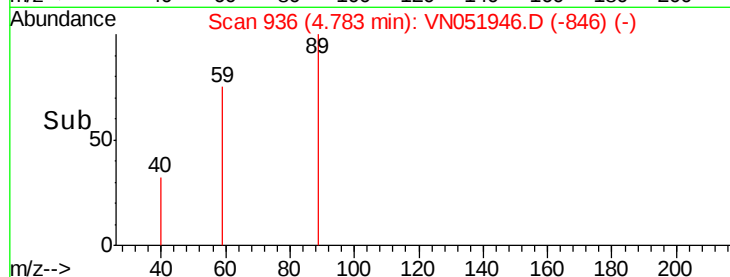
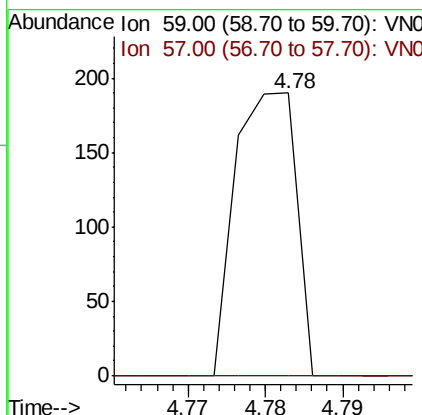
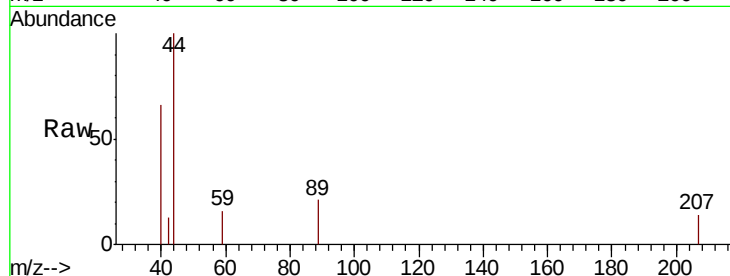


#11

Tert butyl alcohol
 Concen: 0.204 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VN051946.D
 Acq: 19 Oct 2018 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113937ZHE#07

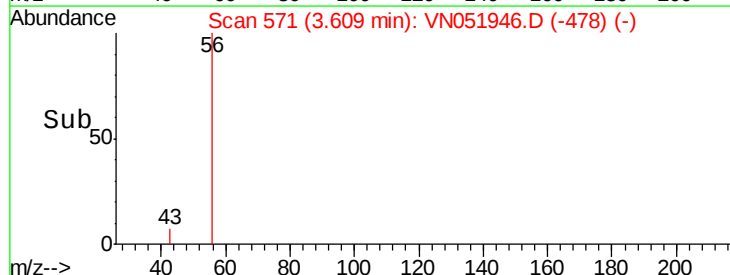
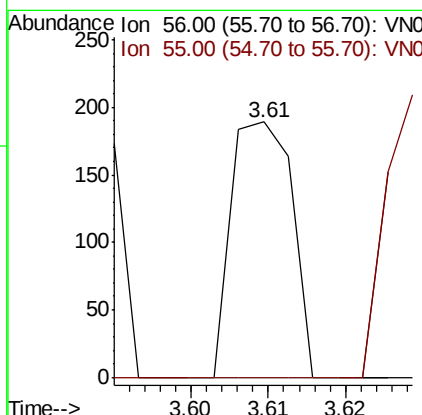
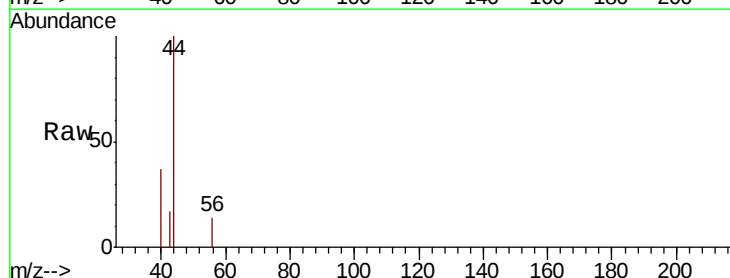
Tot Ion: 59 Resp: 104
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

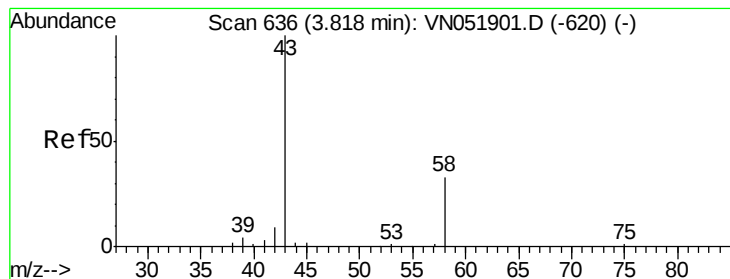


#13

Acrolein
 Concen: Below Cal
 RT: 3.61 min Scan# 571
 Delta R.T. 0.00 min
 Lab File: VN051946.D
 Acq: 19 Oct 2018 14:27

Tgt Ion: 56 Resp: 104
 Ion Ratio Lower Upper
 56 100
 55 104.8 56.7 85.1#





#16

Acetone

Concen: 6.575 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

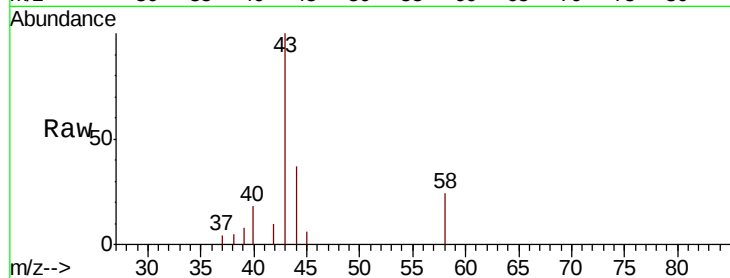
PB113937ZHE#07

Tot Ion: 43 Resp: 10176

Ion Ratio Lower Upper

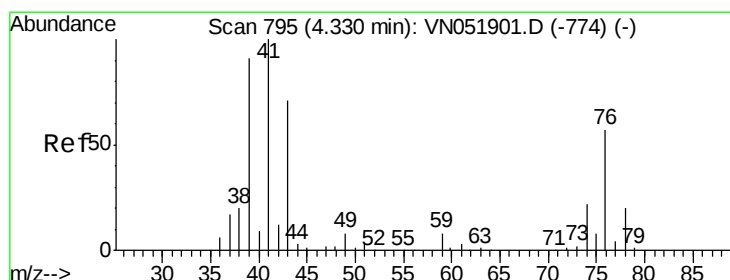
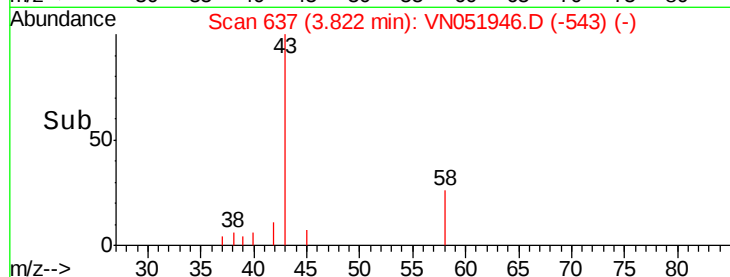
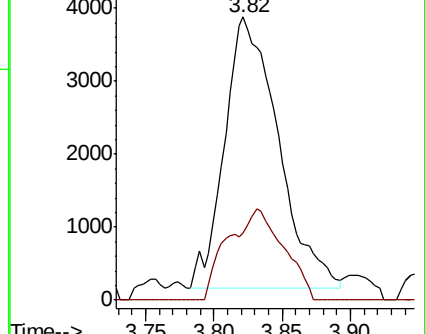
43 100

58 24.7 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN051946.D

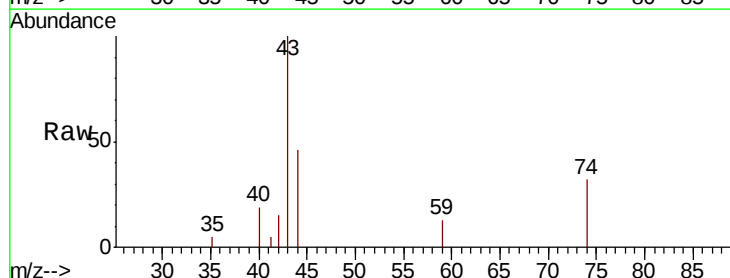
Acq: 19 Oct 2018 14:27

Tgt Ion: 43 Resp: 6473

Ion Ratio Lower Upper

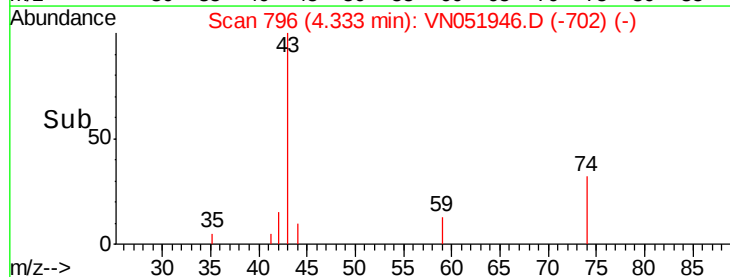
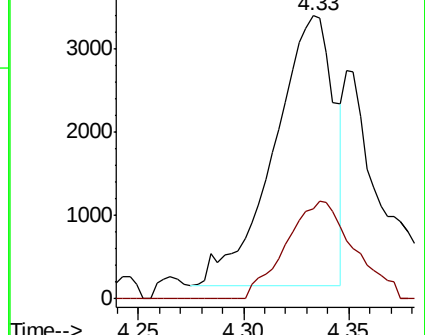
43 100

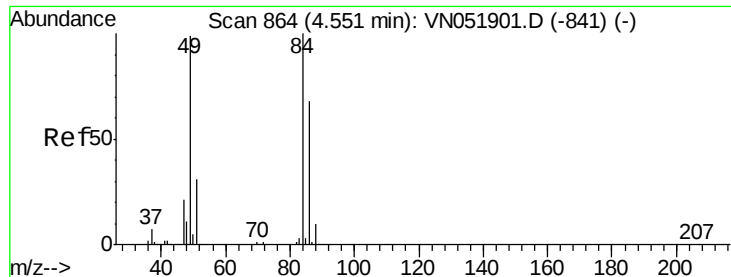
74 40.9 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 0.820 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

PB113937ZHE#07

Tot Ion: 84 Resp: 6450

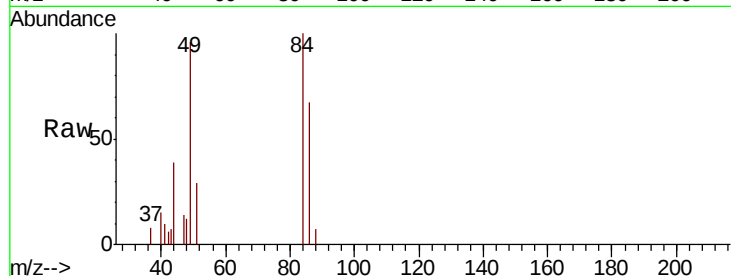
Ion Ratio Lower Upper

84 100

49 95.9 79.0 118.4

51 30.6 24.9 37.3

86 70.5 54.6 82.0

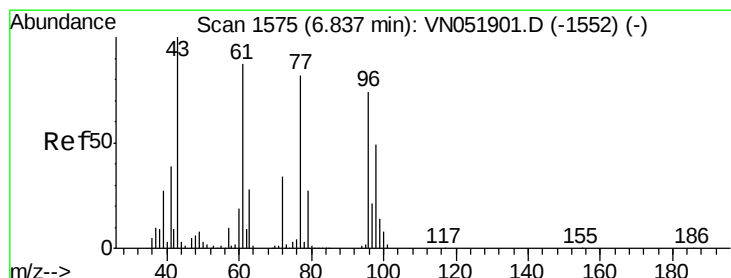
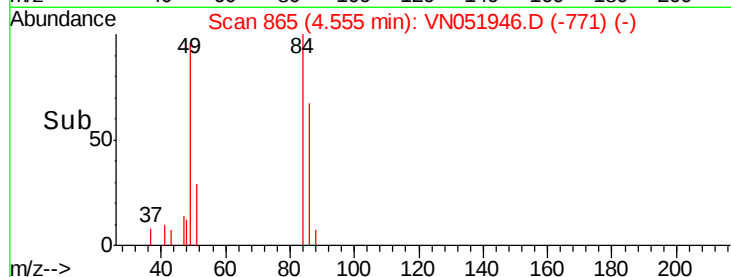
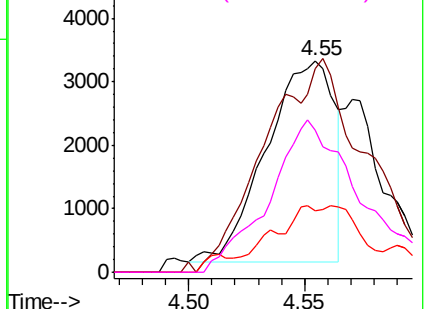


Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 1.113 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN051946.D

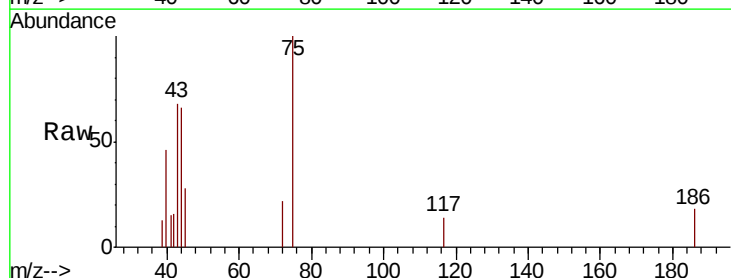
Acq: 19 Oct 2018 14:27

Tgt Ion: 43 Resp: 2462

Ion Ratio Lower Upper

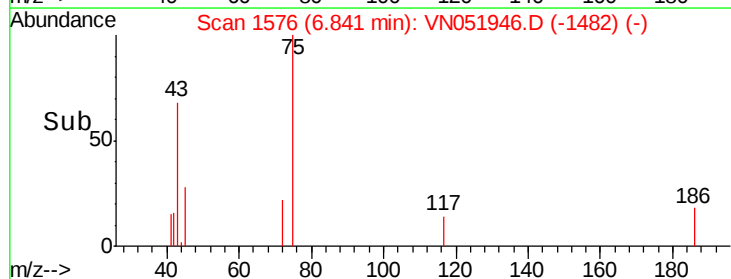
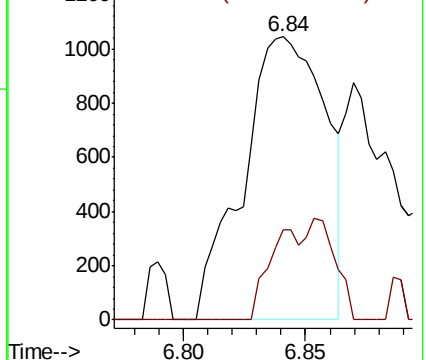
43 100

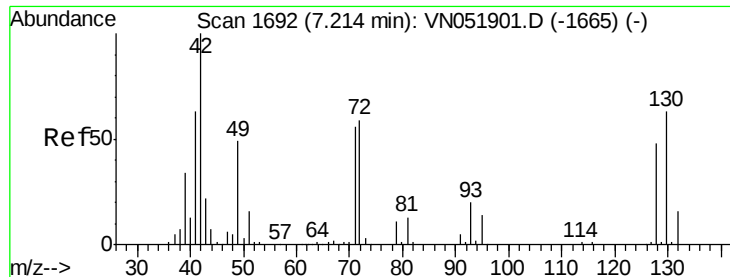
72 31.8 27.0 40.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.613 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

PB113937ZHE#07

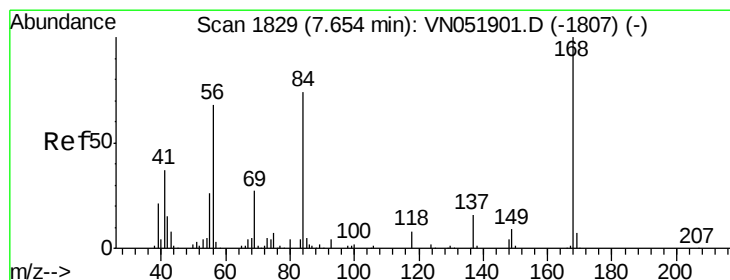
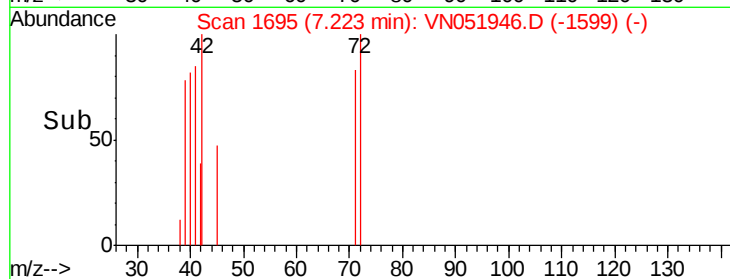
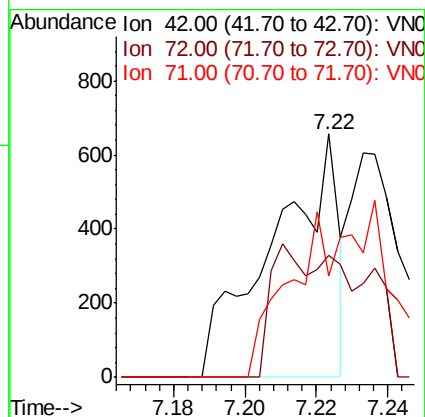
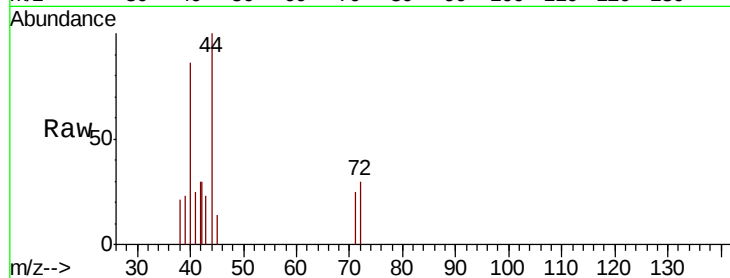
Tot Ion: 42 Resp: 828

Ion Ratio Lower Upper

42 100

72 28.9 47.7 71.5#

71 43.0 45.4 68.0#



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

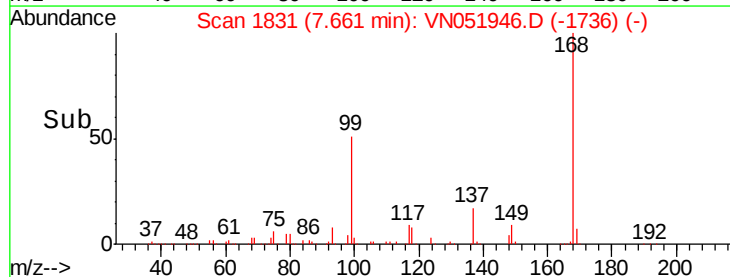
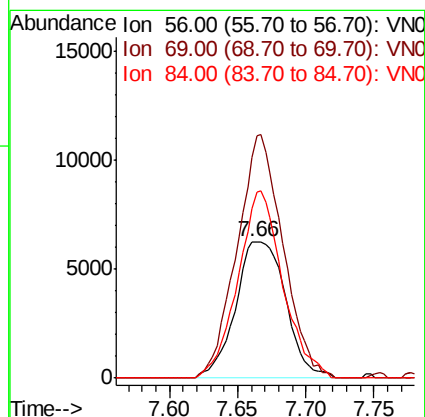
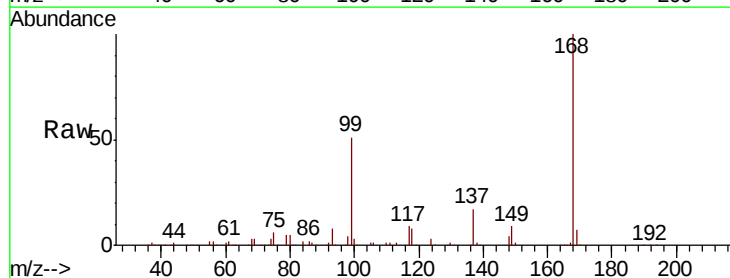
Tgt Ion: 56 Resp: 15982

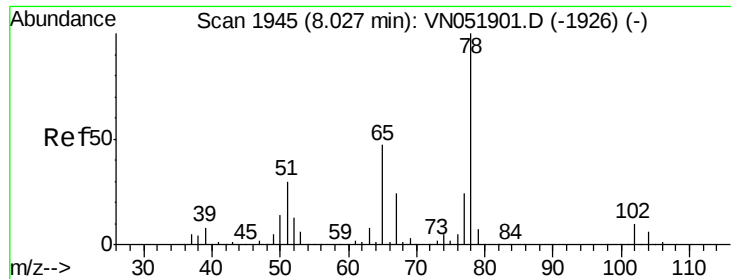
Ion Ratio Lower Upper

56 100

69 161.6 31.2 46.8#

84 123.5 86.6 130.0

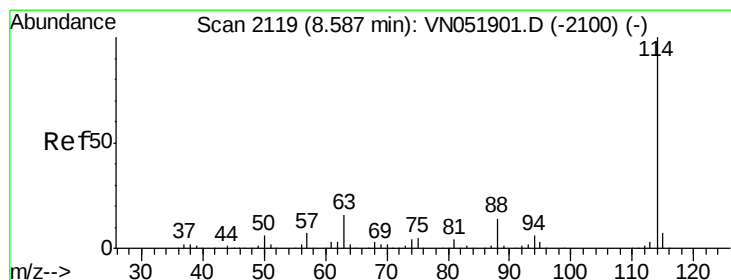
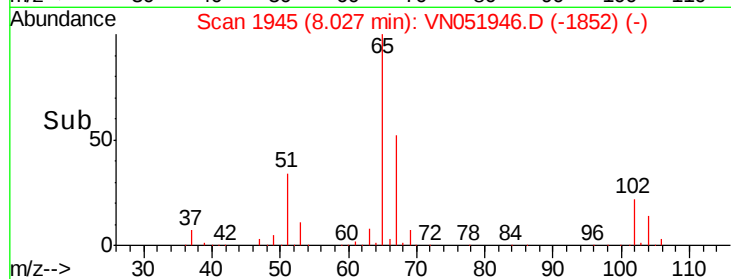
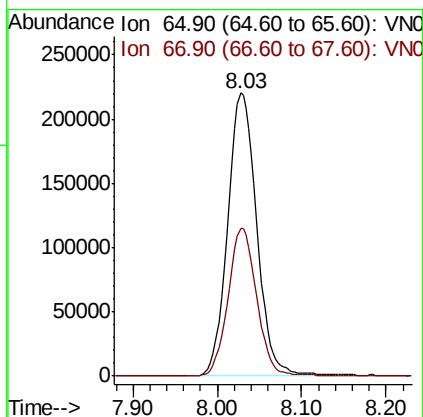
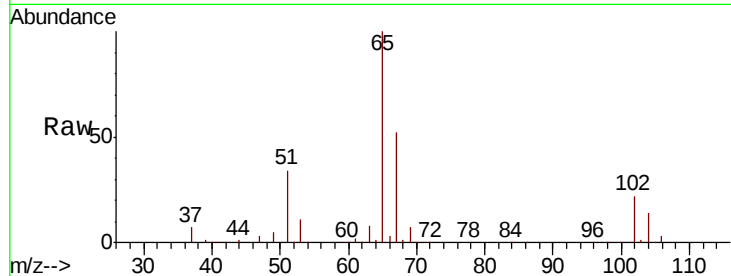




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051946.D
 Acq: 19 Oct 2018 14:27

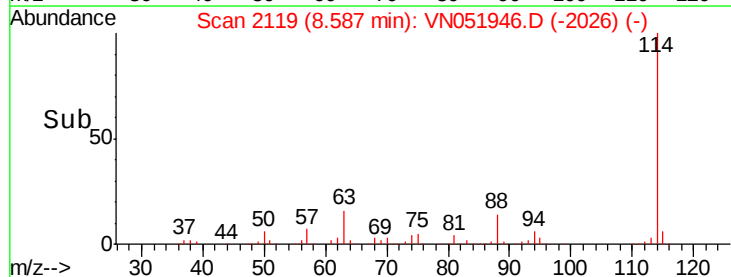
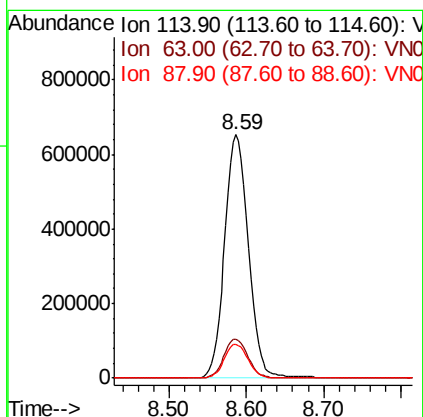
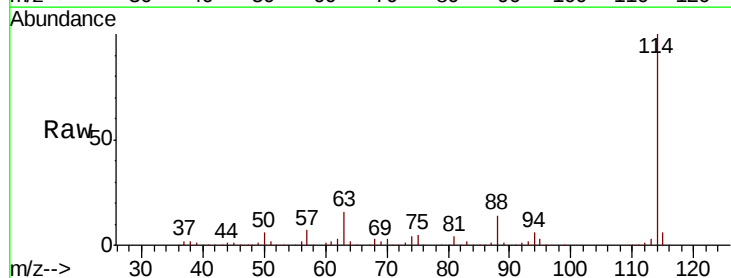
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113937ZHE#07

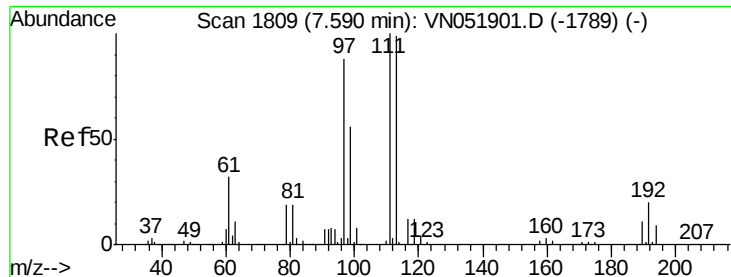
Tot Ion: 65 Resp: 528855
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051946.D
 Acq: 19 Oct 2018 14:27

Tgt Ion: 114 Resp: 1393526
 Ion Ratio Lower Upper
 114 100
 63 16.0 0.0 31.8
 88 13.9 0.0 28.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

PB113937ZHE#07

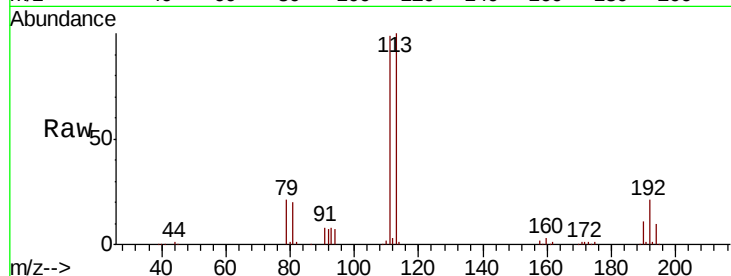
Tot Ion:113 Resp: 517179

Ion Ratio Lower Upper

113 100

111 102.1 82.6 123.8

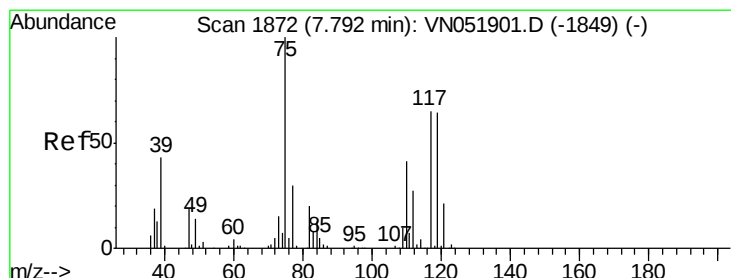
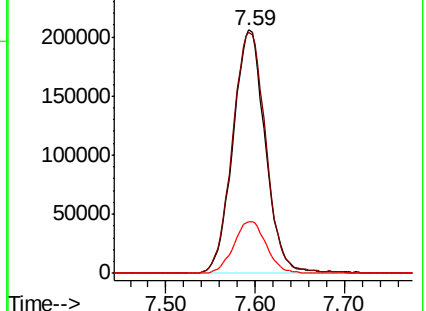
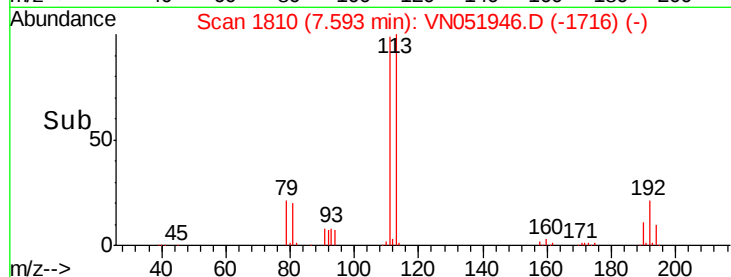
192 21.6 17.3 25.9



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.361 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

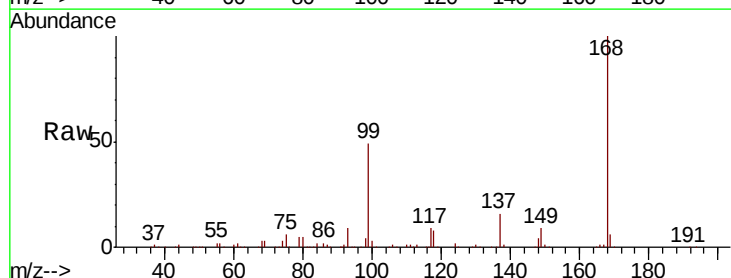
Tgt Ion: 75 Resp: 57981

Ion Ratio Lower Upper

75 100

110 10.8 21.0 63.0#

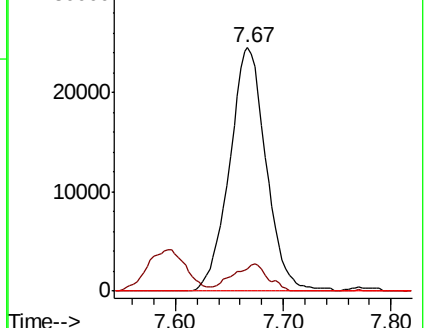
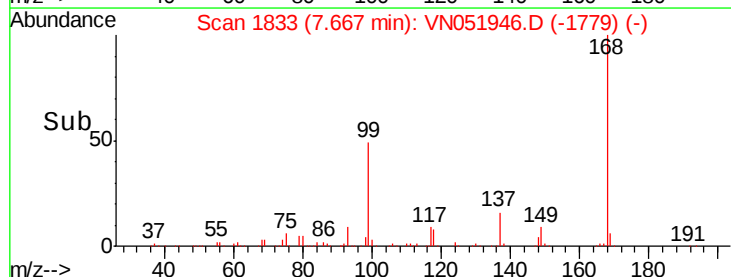
77 0.0 24.9 37.3#

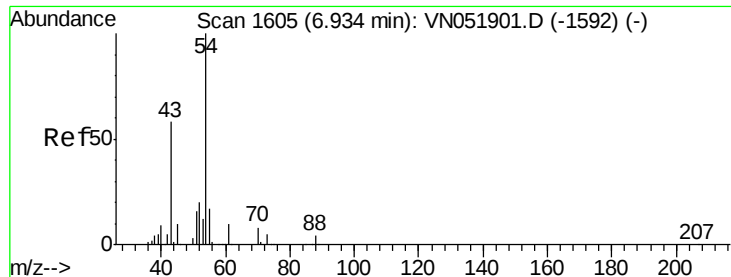


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#37

Ethyl Acetate

Concen: Below Cal

RT: 6.94 min Scan# 1608

Delta R.T. 0.01 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

PB113937ZHE#07

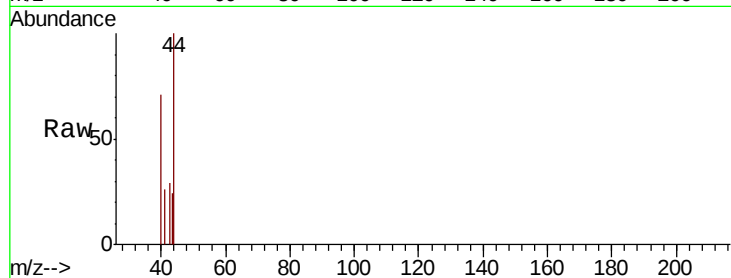
Tot Ion: 43 Resp: 190

Ion Ratio Lower Upper

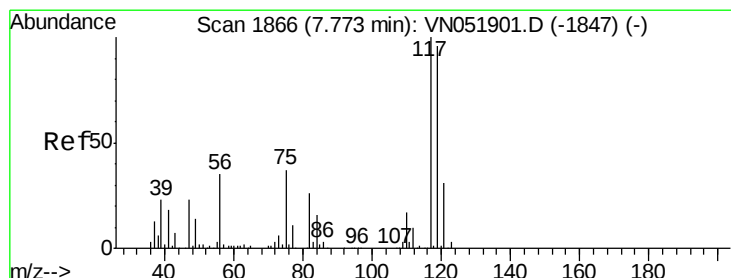
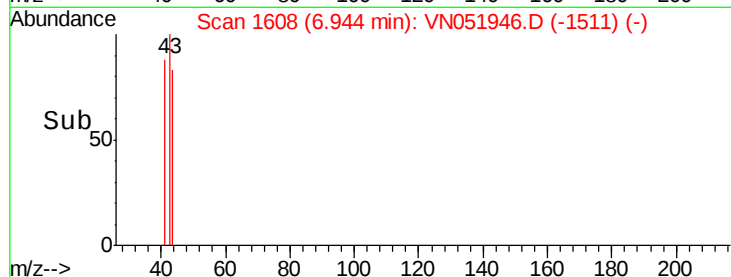
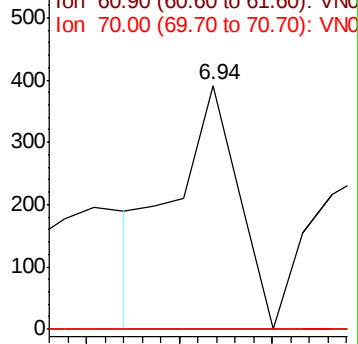
43 100

61 0.0 13.0 19.6#

70 0.0 10.4 15.6#



Abundance Ion 43.00 (42.70 to 43.70): VN051946.D (-1605) (-)



#38

Carbon Tetrachloride

Concen: 6.753 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

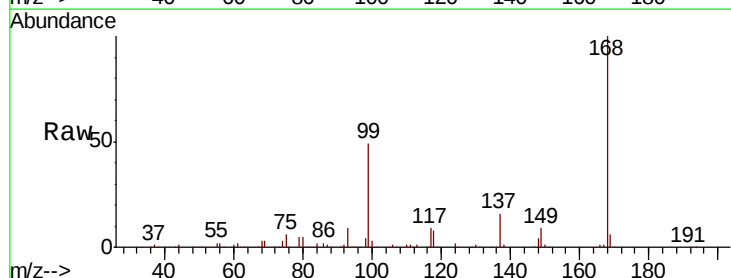
Tgt Ion: 117 Resp: 86011

Ion Ratio Lower Upper

117 100

119 4.1 77.0 115.6#

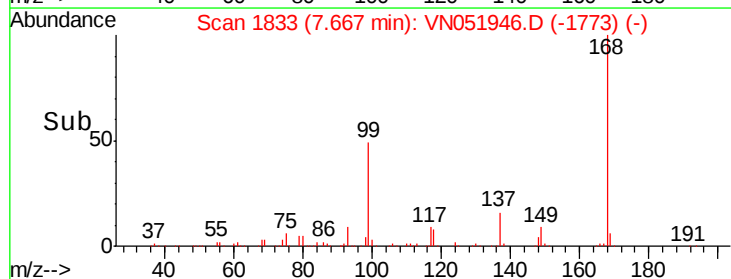
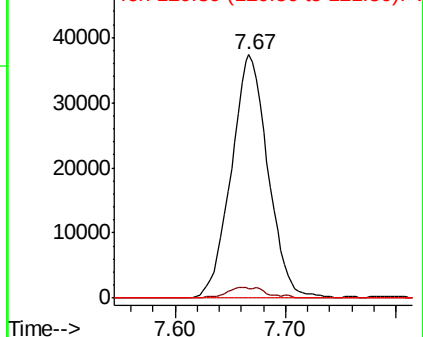
121 0.0 25.1 37.7#

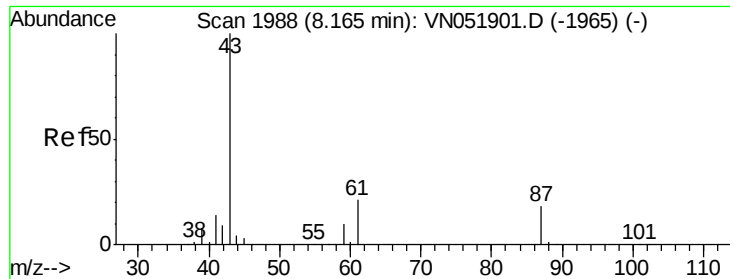


Abundance Ion 116.80 (116.50 to 117.50): VN051946.D (-1833) (-)

Ion 118.80 (118.50 to 119.50): VN051946.D (-1833) (-)

Ion 120.80 (120.50 to 121.50): VN051946.D (-1833) (-)





#43

Isopropyl Acetate

Concen: 32.655 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

PB113937ZHE#07

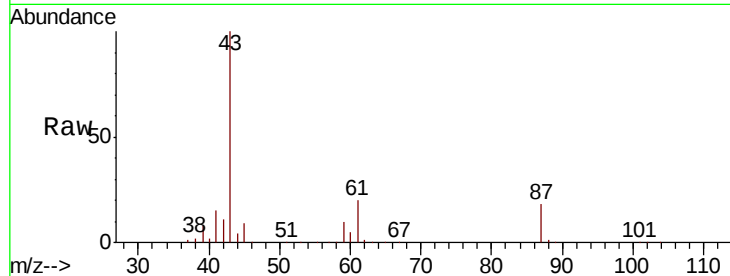
Tot Ion: 43 Resp: 325316

Ion Ratio Lower Upper

43 100

61 18.7 24.9 37.3#

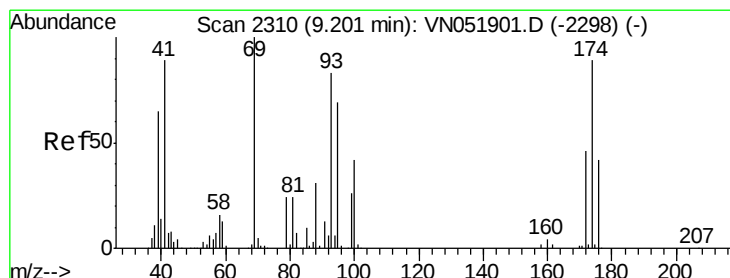
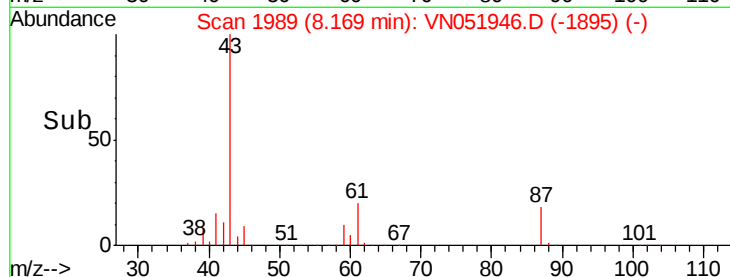
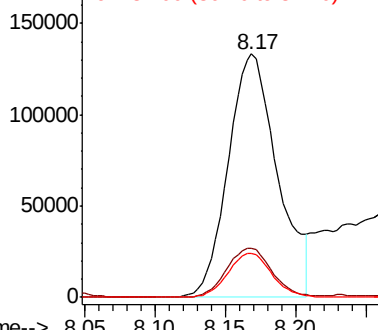
87 16.2 14.6 22.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 0.670 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.03 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

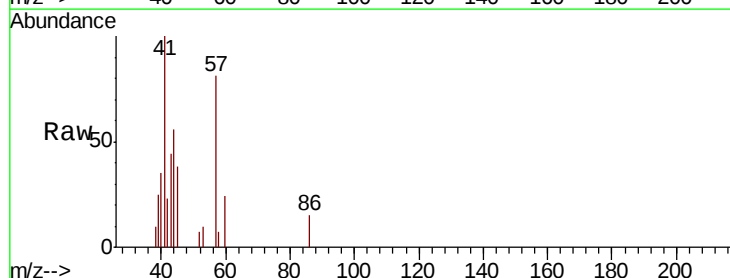
Tgt Ion: 41 Resp: 2925

Ion Ratio Lower Upper

41 100

69 0.0 90.2 135.2#

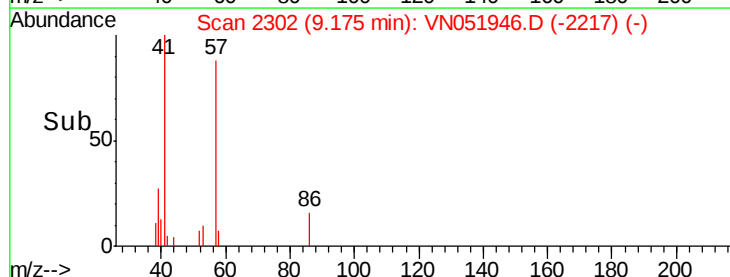
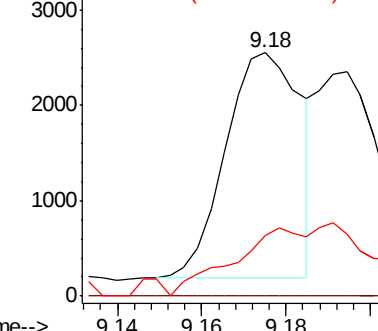
39 29.3 59.7 89.5#

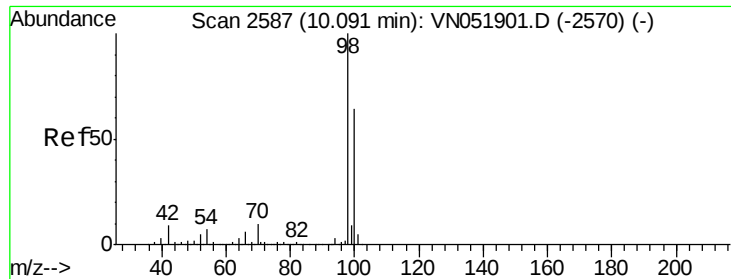


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

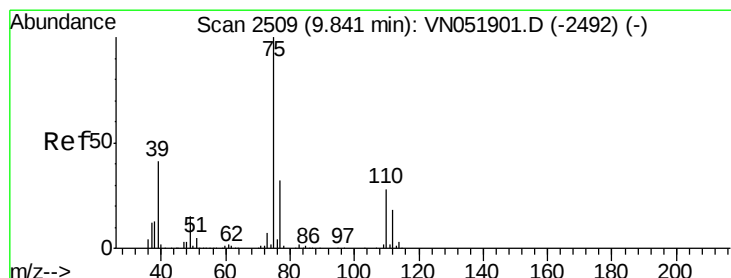
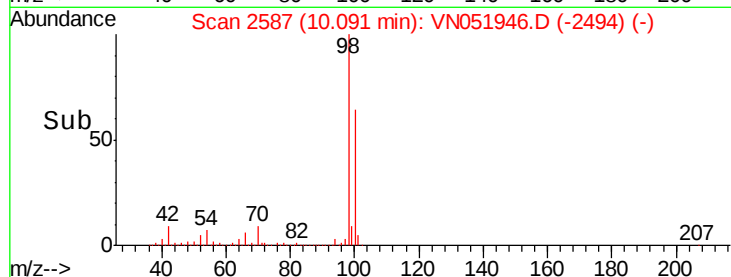
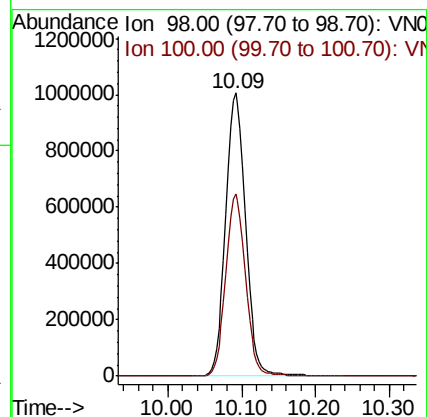
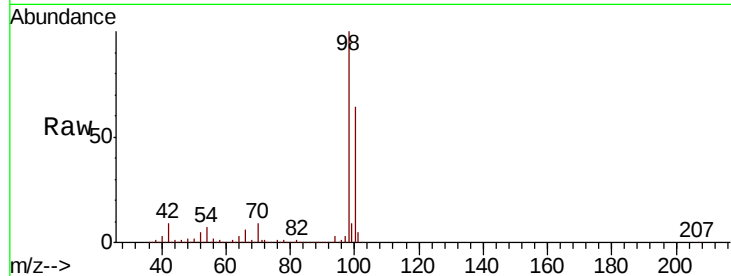
PB113937ZHE#07

Tot Ion: 98 Resp: 1904304

Ion Ratio Lower Upper

98 100

100 63.9 51.0 76.4



#54

cis-1,3-Dichloropropene

Concen: 0.265 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

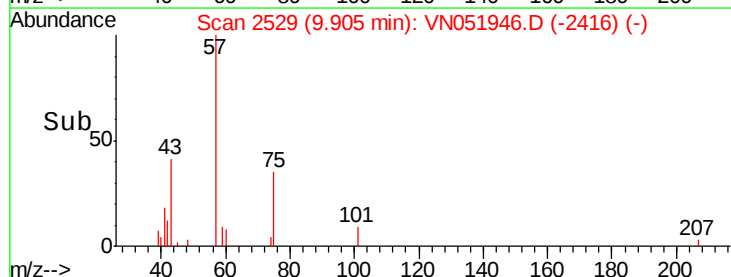
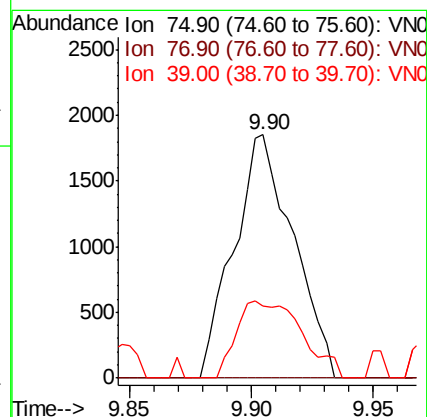
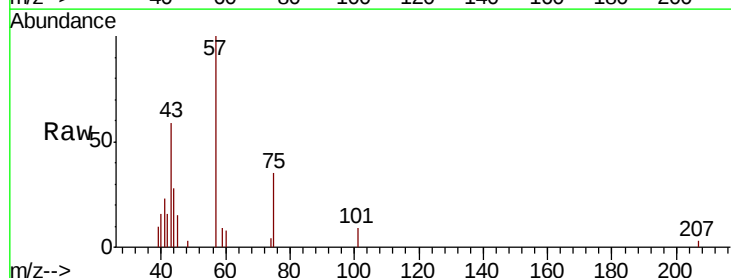
Tgt Ion: 75 Resp: 3126

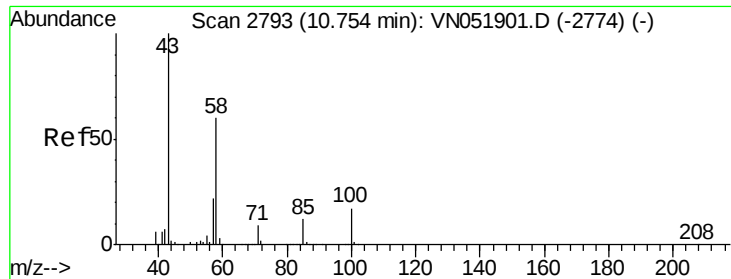
Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#

39 29.7 32.8 49.2#

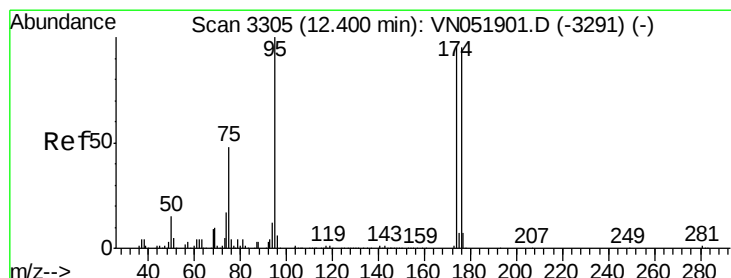
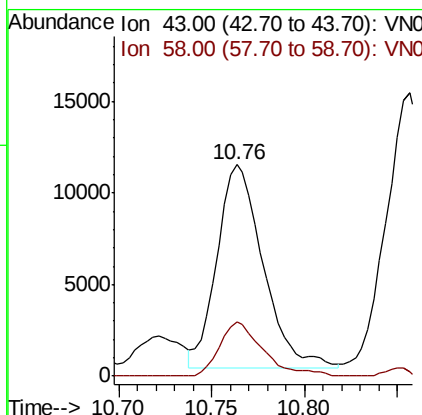
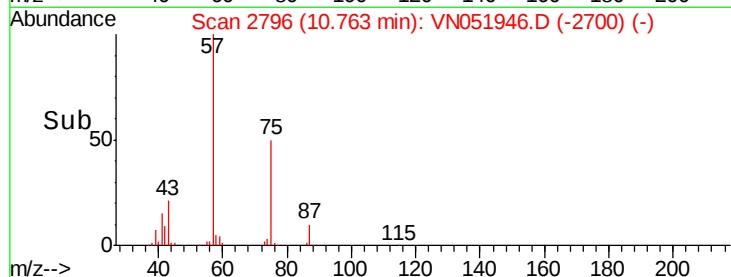
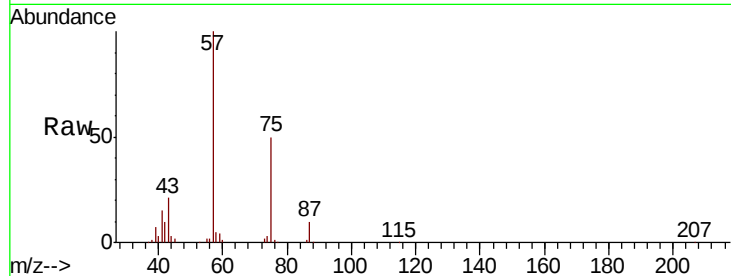




#59
2-Hexanone
Concen: 5.660 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051946.D
Acq: 19 Oct 2018 14:27

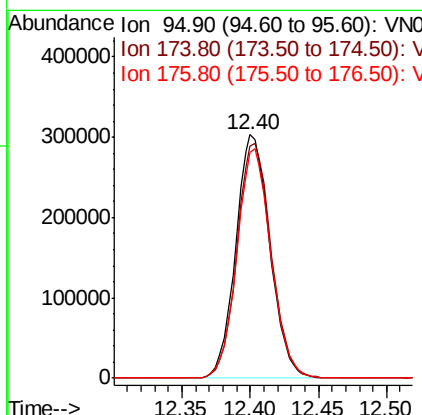
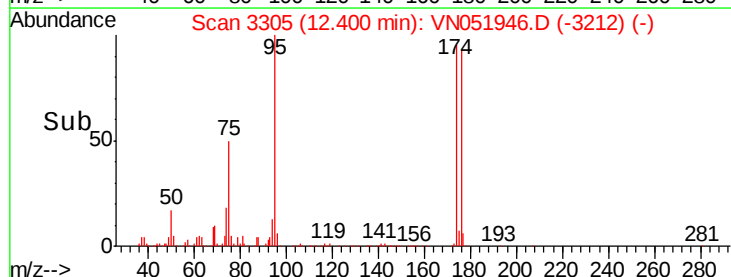
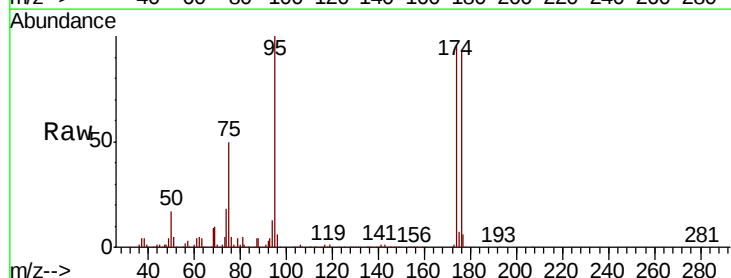
Instrument :
MSVOA_N
ClientSampleId :
PB113937ZHE#07

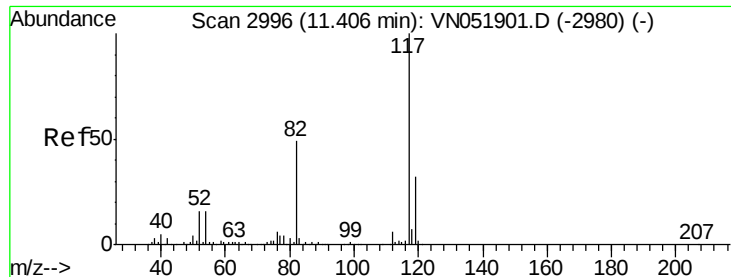
Tot Ion: 43 Resp: 19108
Ion Ratio Lower Upper
43 100
58 25.4 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051946.D
Acq: 19 Oct 2018 14:27

Tgt Ion: 95 Resp: 525254
Ion Ratio Lower Upper
95 100
174 97.5 0.0 195.0
176 93.8 0.0 191.4

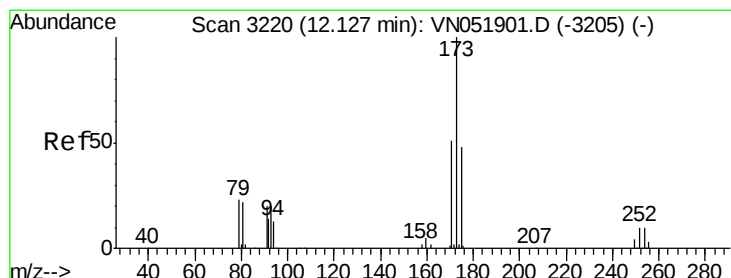
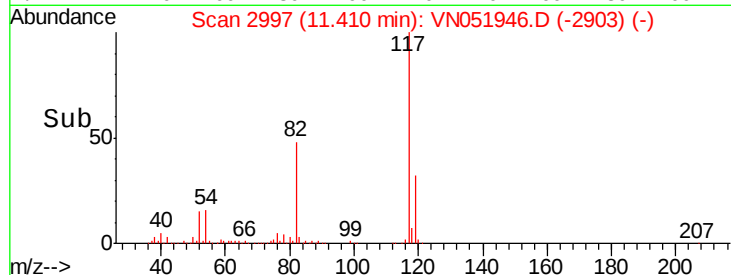
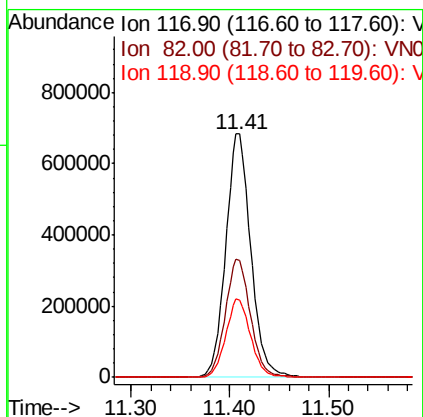
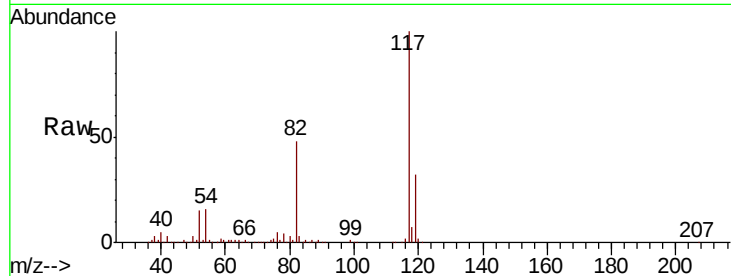




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051946.D
Acq: 19 Oct 2018 14:27

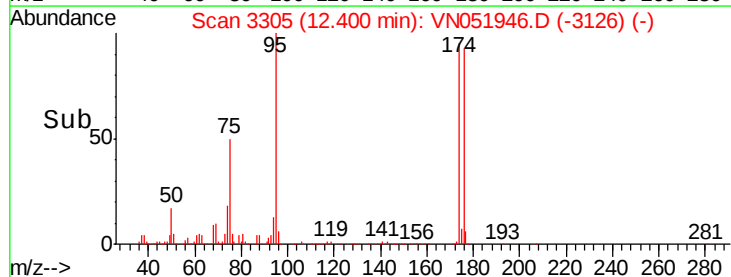
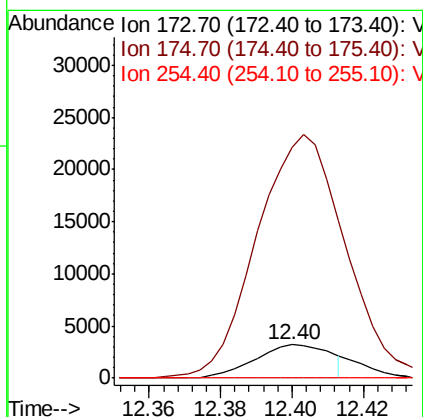
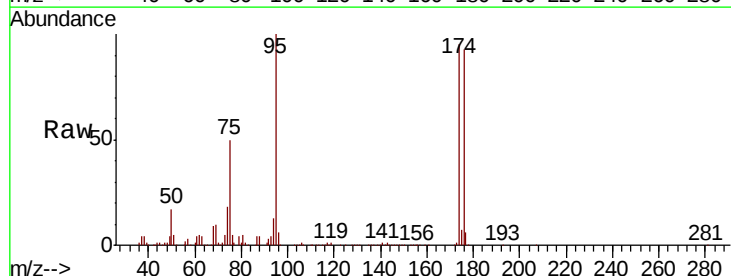
Instrument :
MSVOA_N
ClientSampleId :
PB113937ZHE#07

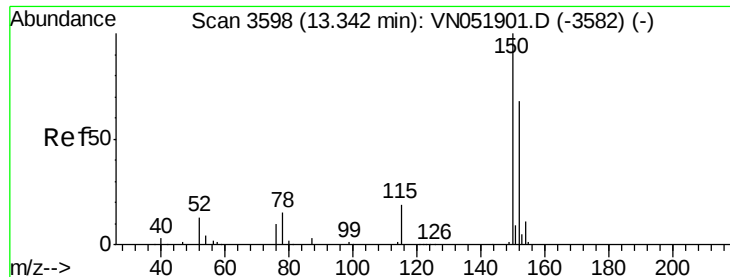
Tot Ion:117 Resp: 1214991
Ion Ratio Lower Upper
117 100
82 47.9 38.9 58.3
119 31.8 25.9 38.9



#71
Bromoform
Concen: 3.876 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051946.D
Acq: 19 Oct 2018 14:27

Tgt Ion:173 Resp: 4668
Ion Ratio Lower Upper
173 100
175 728.2 24.0 72.0#
254 0.0 0.2 0.2#



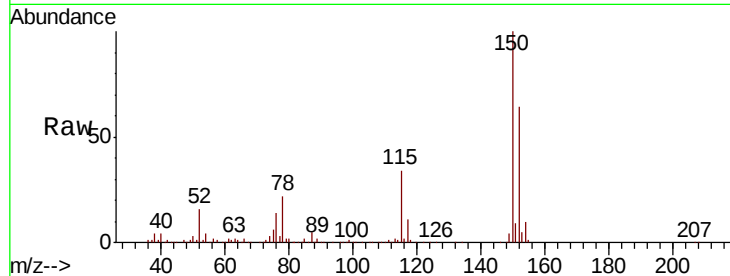


#72

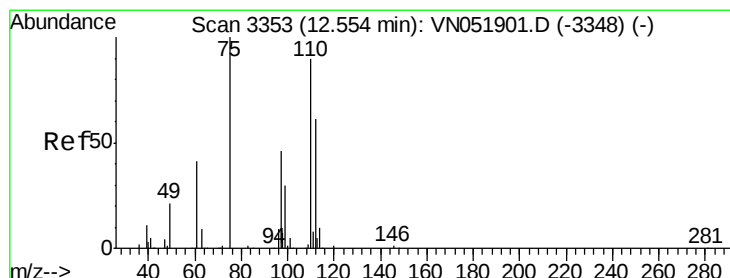
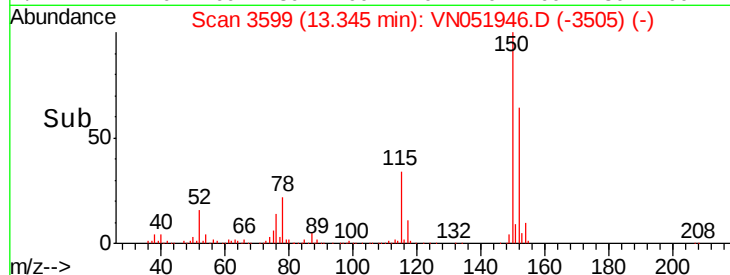
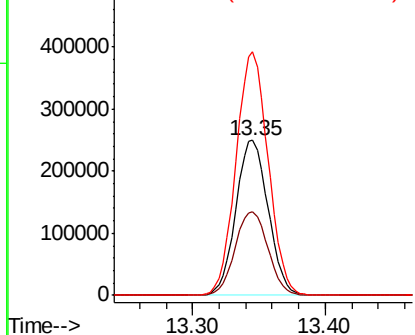
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051946.D
Acq: 19 Oct 2018 14:27

Instrument :
MSVOA_N
ClientSampleId :
PB113937ZHE#07

Tot Ion:152 Resp: 422046
Ion Ratio Lower Upper
152 100
115 55.3 26.7 80.1
150 156.5 0.0 346.4



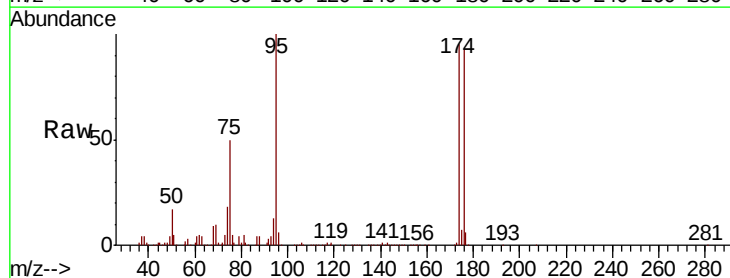
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



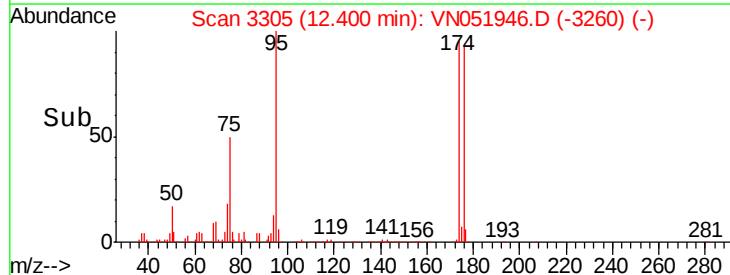
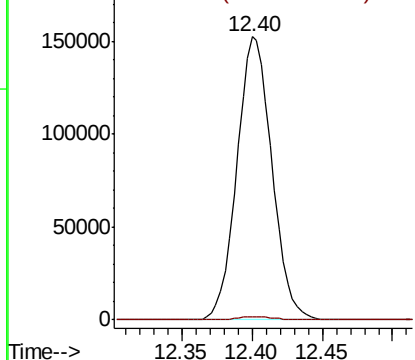
#76

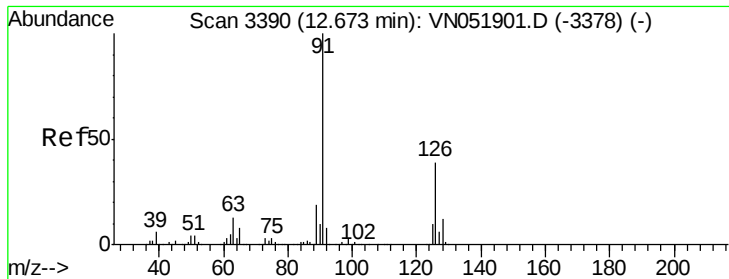
1,2,3-Trichloropropane
Concen: 51.696 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN051946.D
Acq: 19 Oct 2018 14:27

Tgt Ion: 75 Resp: 265187
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





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.66 min Scan# 3387

Delta R.T. -0.01 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

Instrument :

MSVOA_N

ClientSampleId :

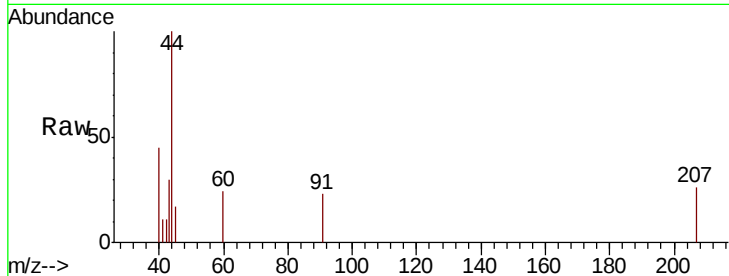
PB113937ZHE#07

Tot Ion: 91 Resp: 205

Ion Ratio Lower Upper

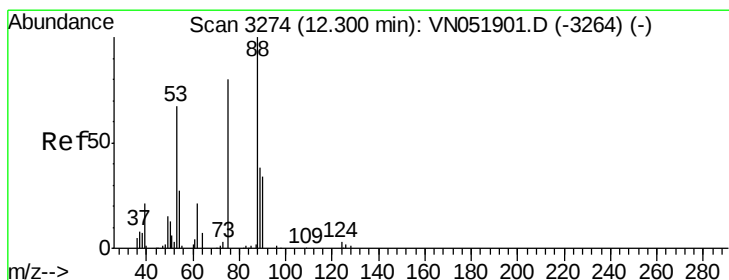
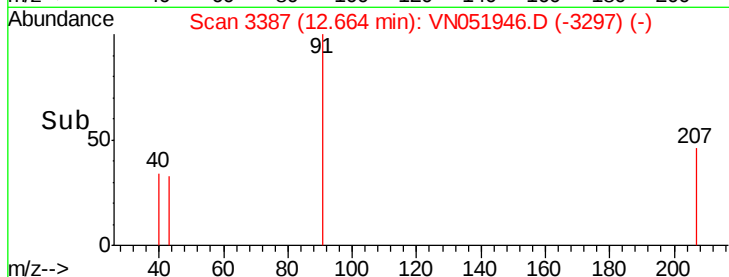
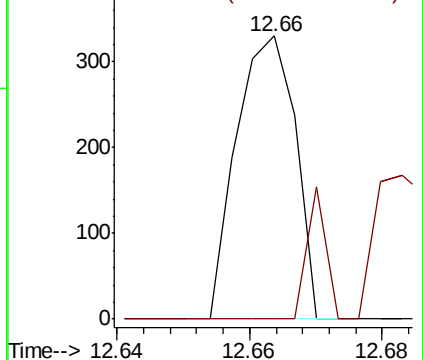
91 100

126 14.6 19.6 58.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 169.879 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051946.D

Acq: 19 Oct 2018 14:27

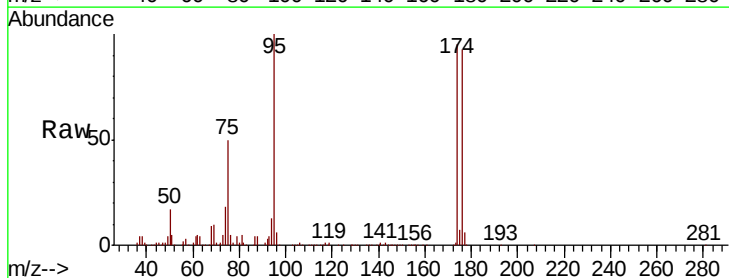
Tgt Ion: 75 Resp: 265187

Ion Ratio Lower Upper

75 100

53 0.0 68.5 102.7#

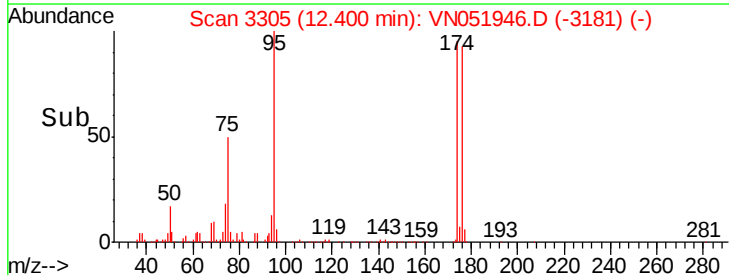
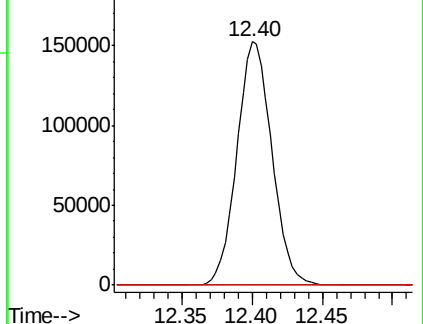
89 0.0 39.0 58.6#

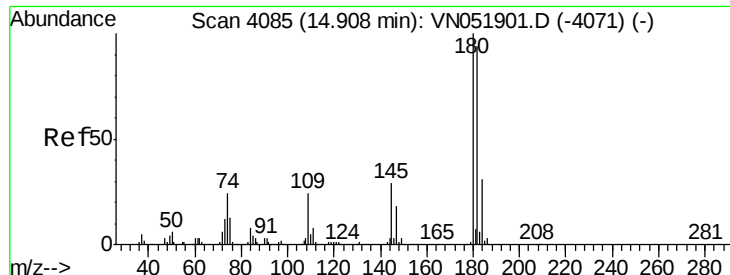


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

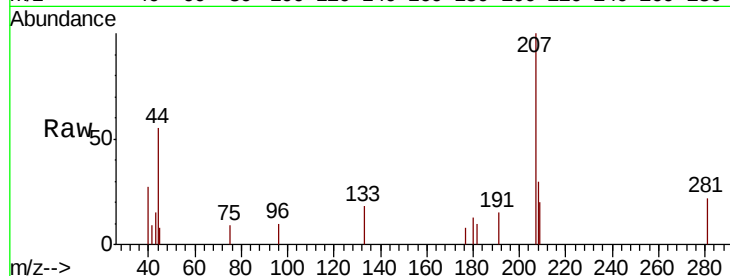




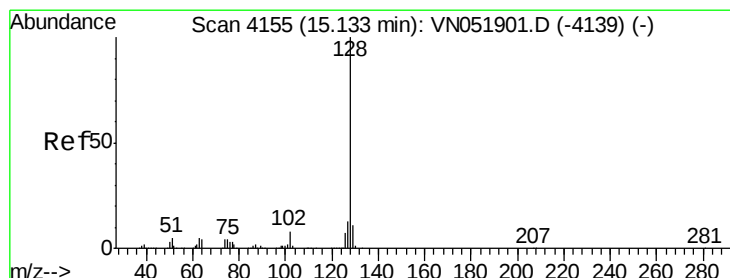
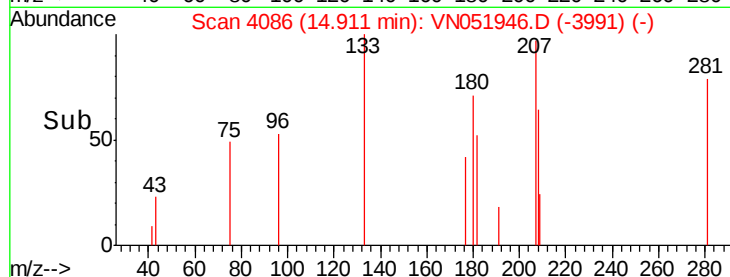
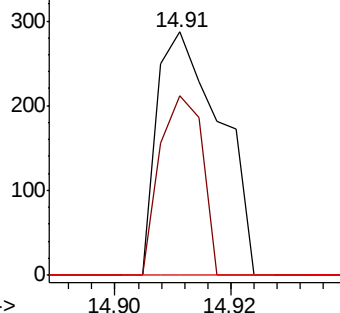
#93
 1,2,4-Trichlorobenzene
 Concen: 4.090 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051946.D
 Acq: 19 Oct 2018 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113937ZHE#07

Tot Ion	Ratio	Lower	Upper
180	100		
182	49.5	47.3	141.9
145	0.0	14.5	43.5#

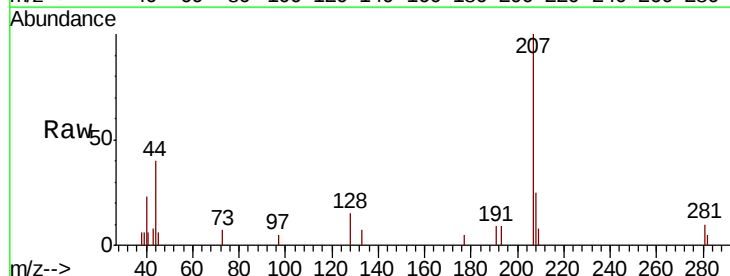


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

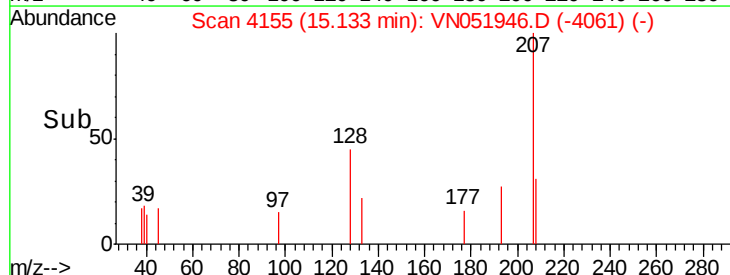
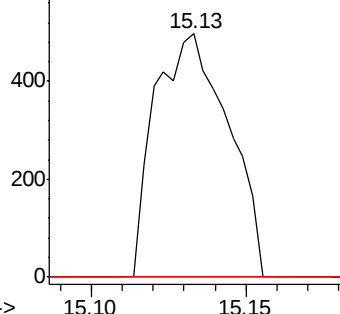


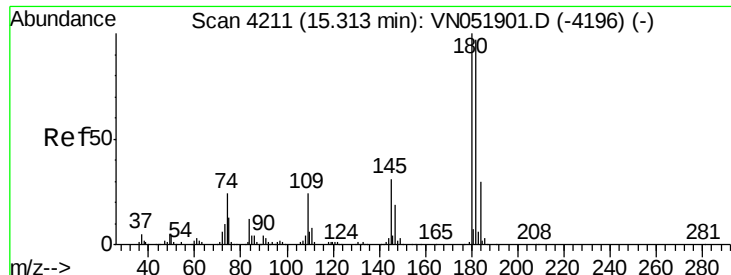
#95
 Naphthalene
 Concen: 4.116 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN051946.D
 Acq: 19 Oct 2018 14:27

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.5	12.7#



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

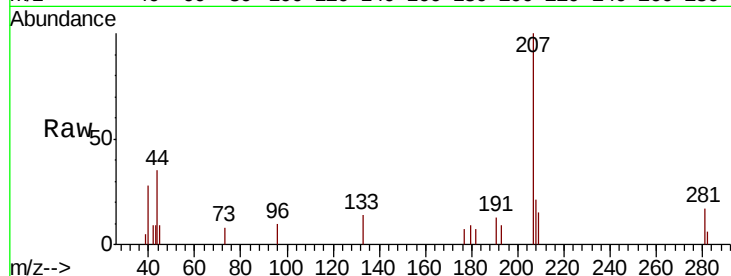




#96
 1,2,3-Trichlorobenzene
 Concen: 2.947 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN051946.D
 Acq: 19 Oct 2018 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113937ZHE#07

Tot Ion	Ratio	Lower	Upper
180	100		
182	33.8	47.9	143.8#
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

