

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049808.D
 Acq On : 13 Jul 2018 20:02
 Operator : MD\SY
 Sample : PB111069ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#11

Quant Time: Jul 13 23:53:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1145704	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1906370	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1567602	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	575986	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	787762	59.11	ug/l	0.00
Spiked Amount			Recovery	=	118.22%	
35) Dibromofluoromethane	7.59	113	716398	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
50) Toluene-d8	10.09	98	2560553	52.06	ug/l	0.00
Spiked Amount			Recovery	=	104.12%	
62) 4-Bromofluorobenzene	12.40	95	695578	39.59	ug/l	0.00
Spiked Amount			Recovery	=	79.18%	

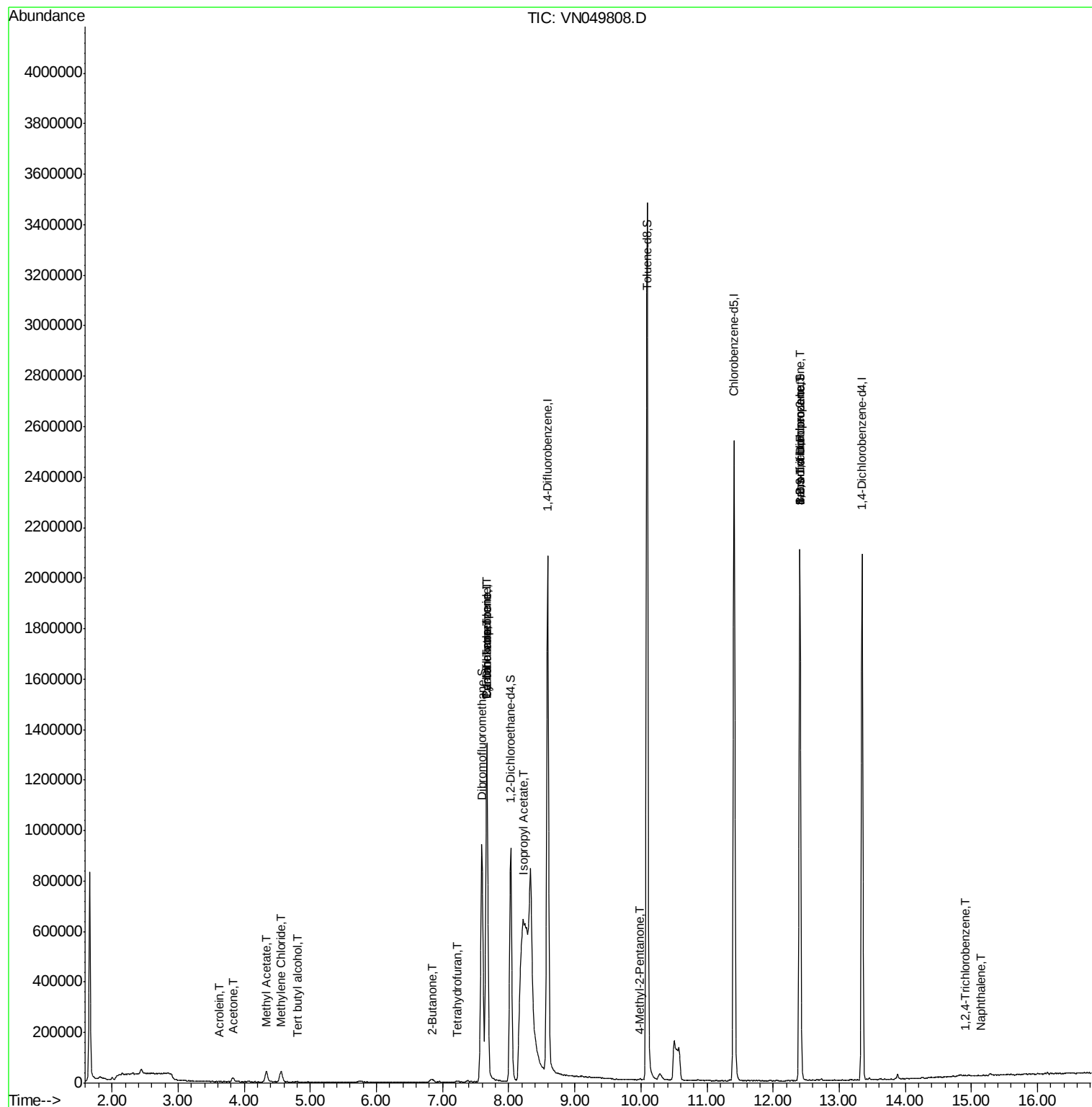
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1650	Below Cal	#	83
4) Vinyl Chloride	2.20	62	635	Below Cal	#	48
5) Bromomethane	2.58	94	733	Below Cal	#	54
11) Tert butyl alcohol	4.81	59	180	0.20	ug/l	# 72
13) Acrolein	3.61	56	274	0.35	ug/l	# 20
16) Acetone	3.83	43	26684	6.11	ug/l	97
17) Carbon Disulfide	4.06	76	3008	Below Cal	#	87
18) Methyl Acetate	4.34	43	78125	6.37	ug/l	100
20) Methylene Chloride	4.55	84	32248	1.47	ug/l	90
25) 2-Butanone	6.85	43	3825	0.74	ug/l	92
29) Tetrahydrofuran	7.23	42	805	0.25	ug/l	# 69
31) Cyclohexane	7.67	56	21590	0.79	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	80712	3.67	ug/l	# 49
38) Carbon Tetrachloride	7.67	117	104710	4.56	ug/l	# 17
43) Isopropyl Acetate	8.22	43	816659	34.94	ug/l	# 65
51) 4-Methyl-2-Pentanone	9.99	43	3597	0.28	ug/l	# 35
55) 1,1,2-Trichloroethane	10.58	97	2690	Below Cal	#	15
71) Bromoform	12.40	173	5953	0.57	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.50	83	31	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	349274	34.13	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	349274	110.23	ug/l	# 13
90) Hexachloroethane	13.88	117	136	Below Cal	#	4
93) 1,2,4-Trichlorobenzene	14.90	180	60	2.89	ug/l	# 75
95) Naphthalene	15.14	128	655	4.05	ug/l	# 69

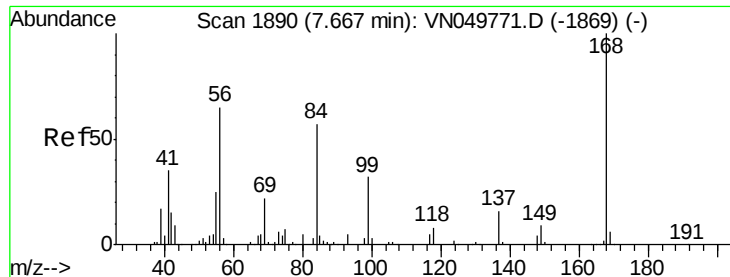
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 13 23:53:39 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 12 15:51:38 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: VN049808.D

Acq: 13 Jul 2018 20:02

Instrument :

MSVOA_N

ClientSampleId :

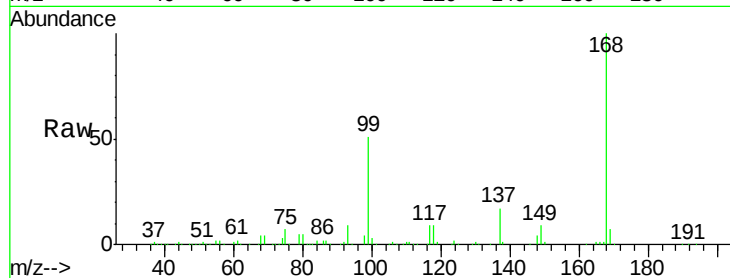
PB111069ZHE#11

Tot Ion:168 Resp: 1145704

Ion Ratio Lower Upper

168 100

99 50.7 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

500000

400000

300000

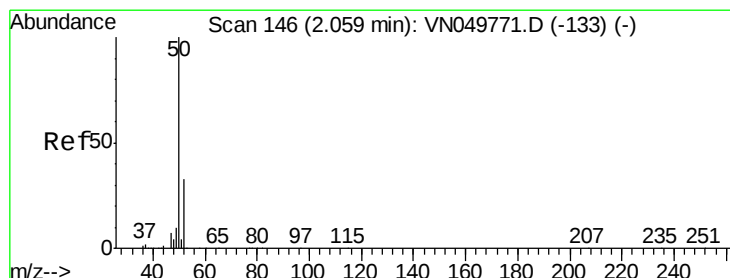
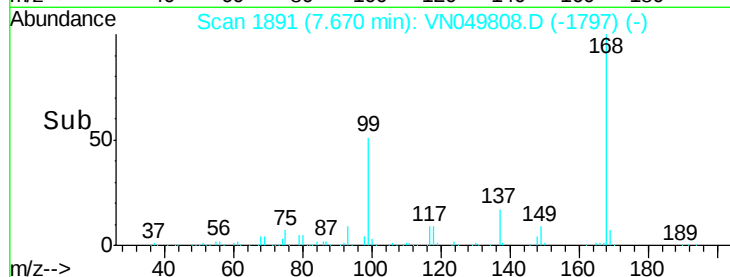
200000

100000

0

Time-->

7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049808.D

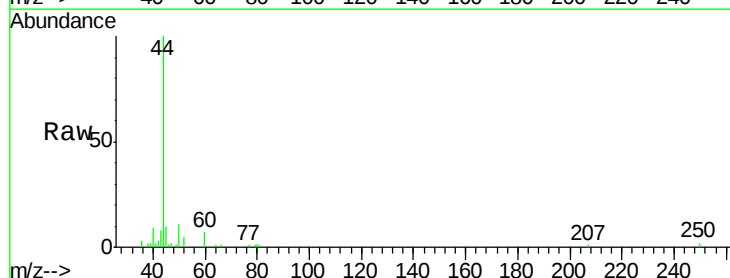
Acq: 13 Jul 2018 20:02

Tgt Ion: 50 Resp: 1650

Ion Ratio Lower Upper

50 100

52 42.1 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

1500

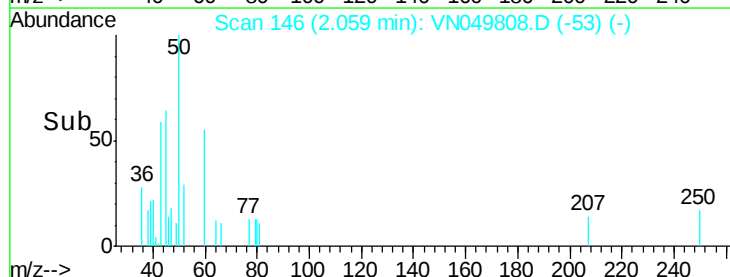
1000

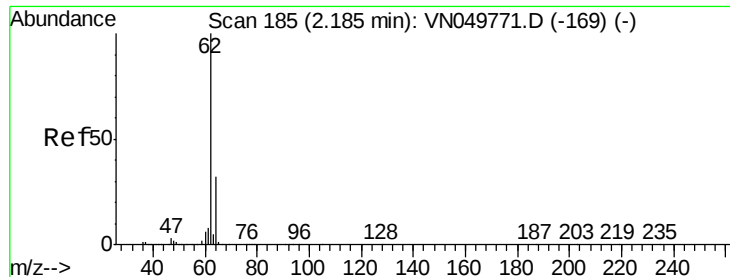
500

0

Time-->

2.02 2.04 2.06 2.08 2.10





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.20 min Scan# 190

Delta R.T. 0.02 min

Lab File: VN049808.D

Acq: 13 Jul 2018 20:02

Instrument :

MSVOA_N

ClientSampleId :

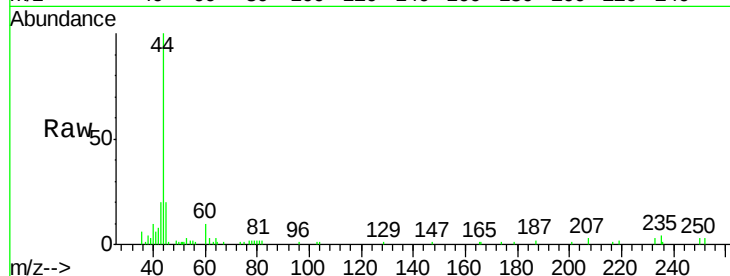
PB111069ZHE#11

Tot Ion: 62 Resp: 635

Ion Ratio Lower Upper

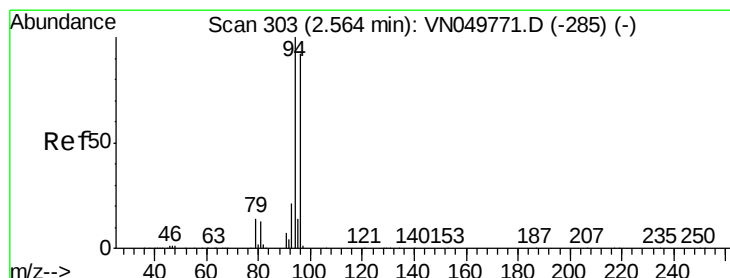
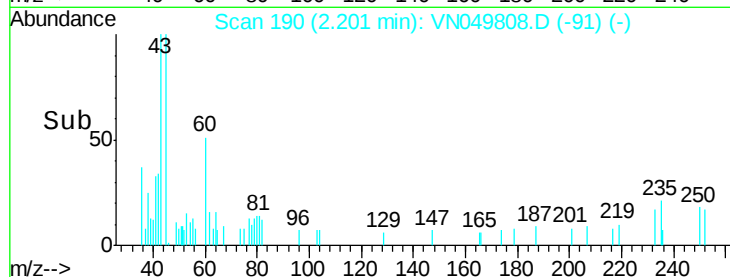
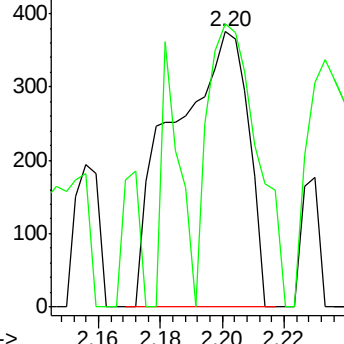
62 100

64 60.5 25.4 38.0#



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 307

Delta R.T. 0.01 min

Lab File: VN049808.D

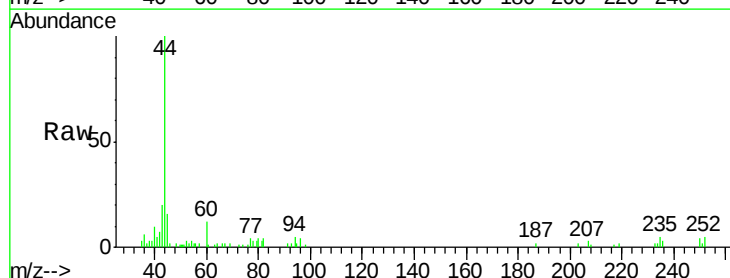
Acq: 13 Jul 2018 20:02

Tgt Ion: 94 Resp: 733

Ion Ratio Lower Upper

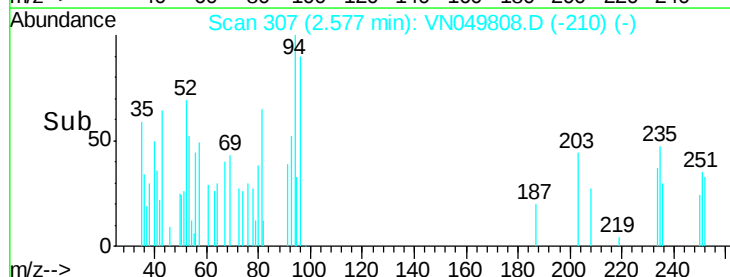
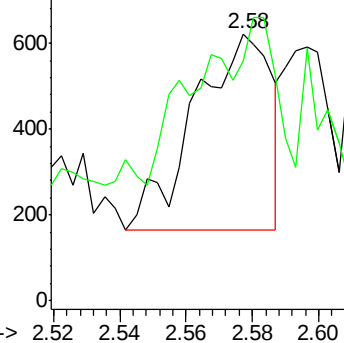
94 100

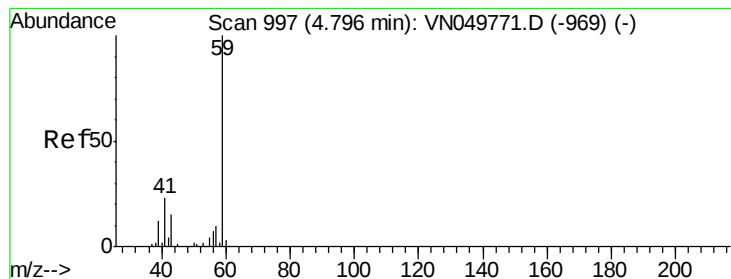
96 50.2 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0





#11

Tert butyl alcohol

Concen: 0.20 ug/l

RT: 4.81 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VN049808.D

Acq: 13 Jul 2018 20:02

Instrument :

MSVOA_N

ClientSampleId :

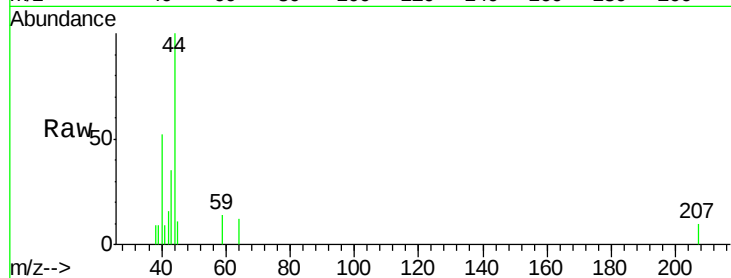
PB111069ZHE#11

Tot Ion: 59 Resp: 180

Ion Ratio Lower Upper

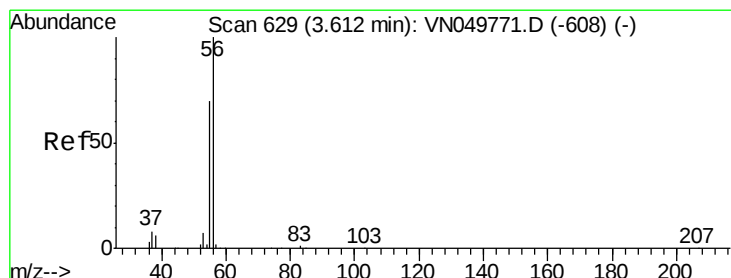
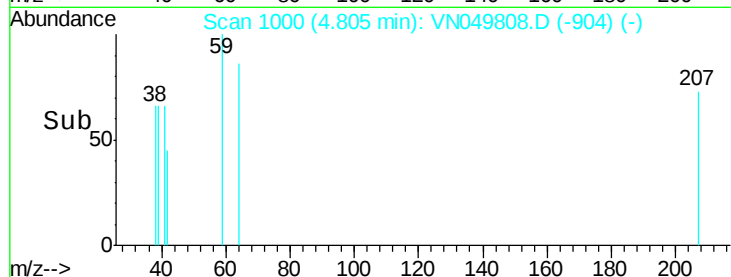
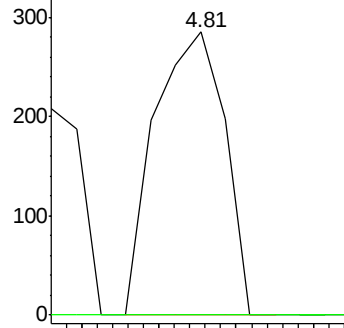
59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#13

Acrolein

Concen: 0.35 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN049808.D

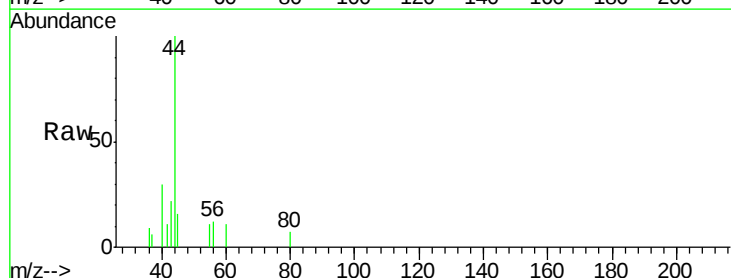
Acq: 13 Jul 2018 20:02

Tgt Ion: 56 Resp: 274

Ion Ratio Lower Upper

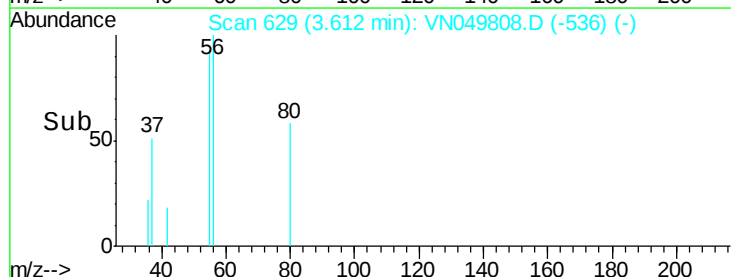
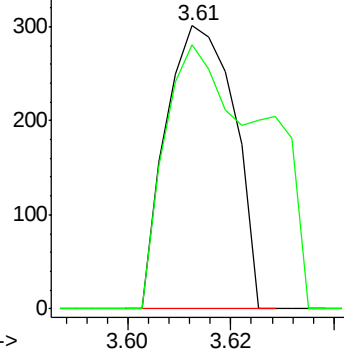
56 100

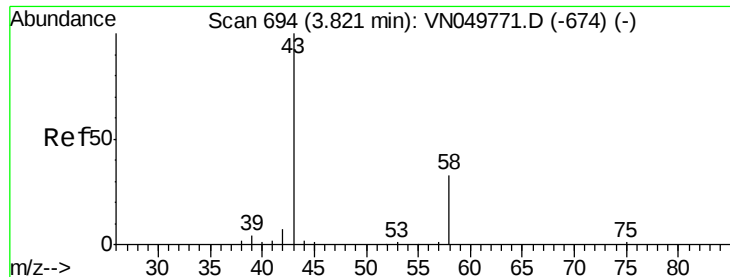
55 135.4 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 6.11 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN049808.D

Acq: 13 Jul 2018 20:02

Instrument :

MSVOA_N

ClientSampleId :

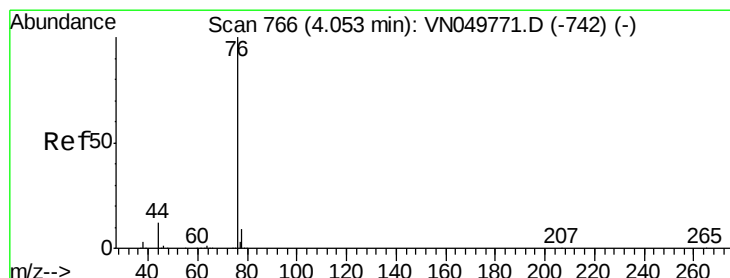
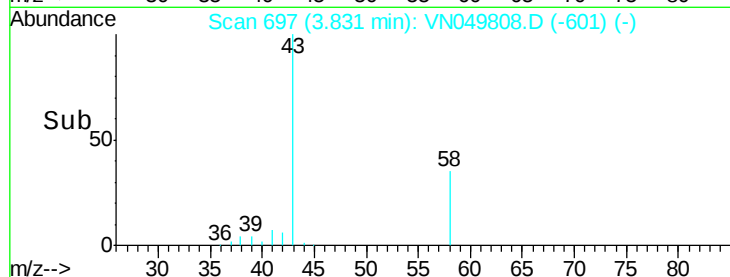
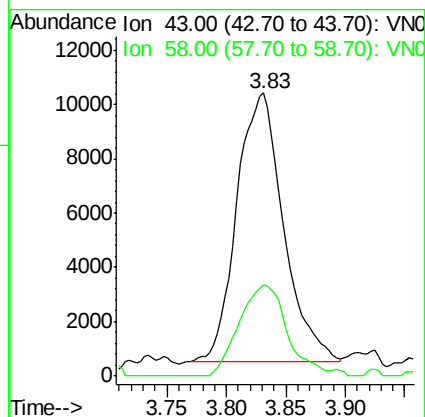
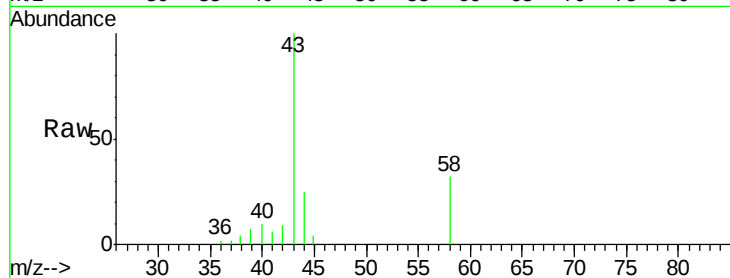
PB111069ZHE#11

Tot Ion: 43 Resp: 26684

Ion Ratio Lower Upper

43 100

58 34.1 25.9 38.9



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.06 min Scan# 768

Delta R.T. 0.01 min

Lab File: VN049808.D

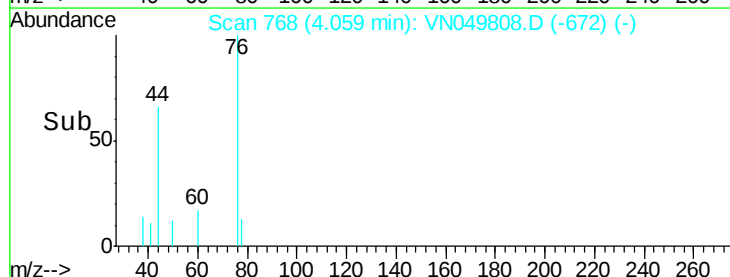
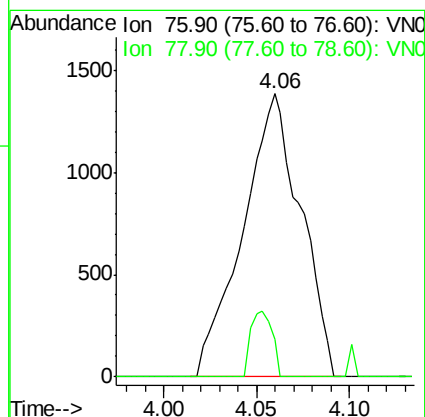
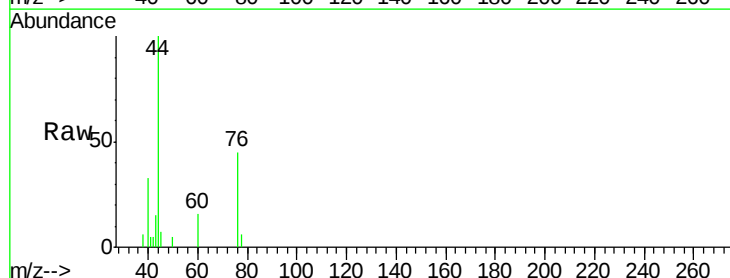
Acq: 13 Jul 2018 20:02

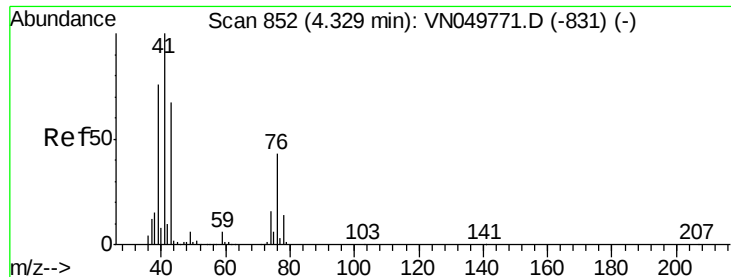
Tgt Ion: 76 Resp: 3008

Ion Ratio Lower Upper

76 100

78 13.4 7.1 10.7#

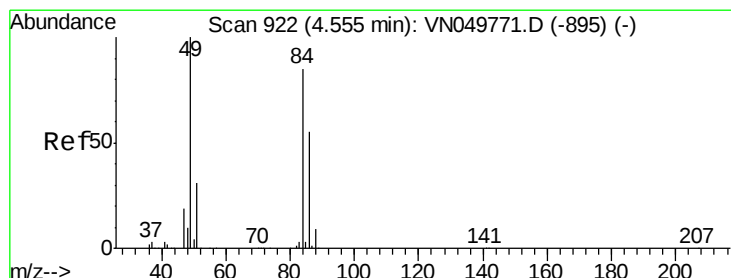
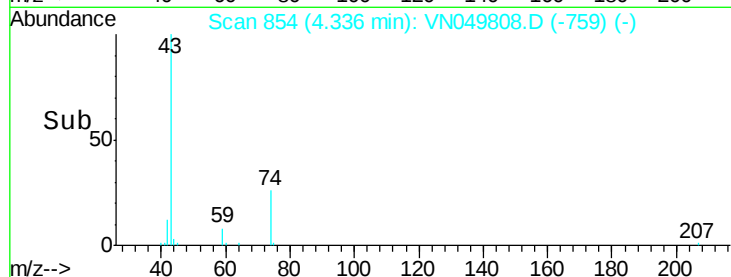
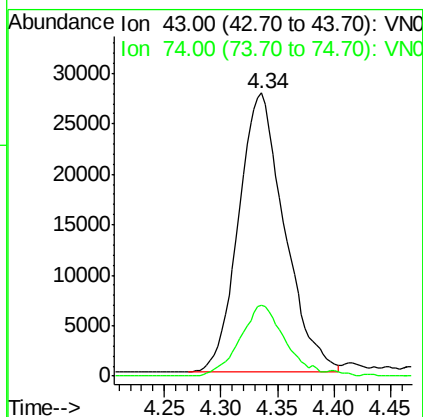
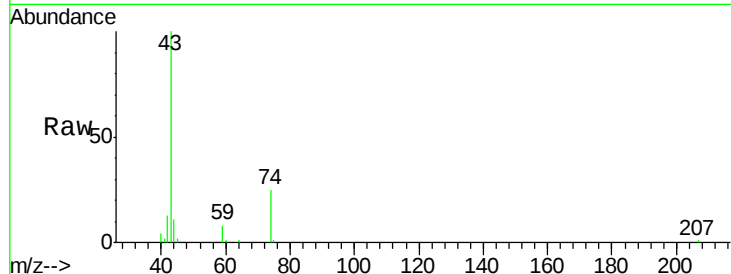




#18
Methvl Acetate
Concen: 6.37 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049808.D
Acq: 13 Jul 2018 20:02

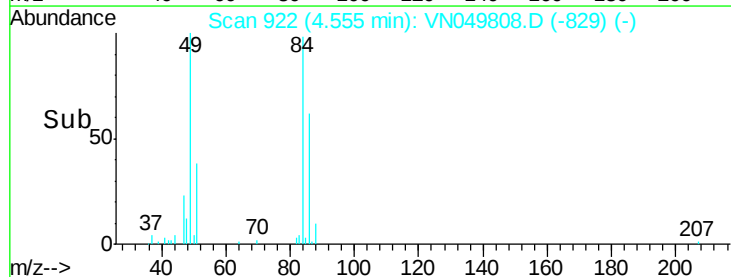
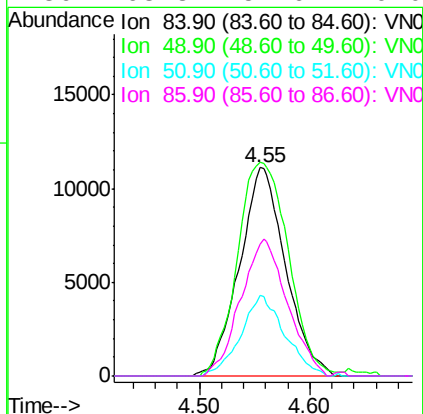
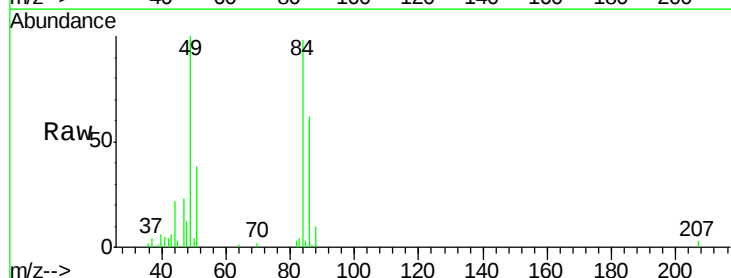
Instrument :
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PB111069ZHE#11

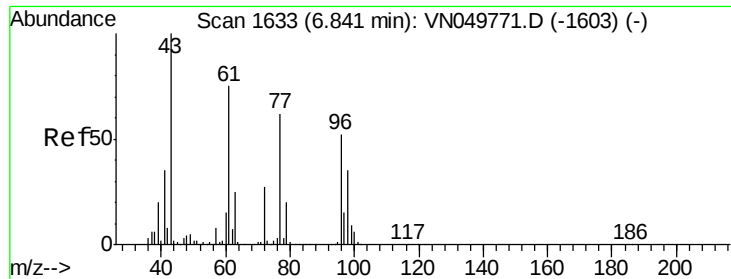
Tot Ion: 43 Resp: 78125
Ion Ratio Lower Upper
43 100
74 24.7 19.8 29.8



#20
Methylene Chloride
Concen: 1.47 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049808.D
Acq: 13 Jul 2018 20:02

Tgt Ion: 84 Resp: 32248
Ion Ratio Lower Upper
84 100
49 102.4 95.4 143.2
51 38.5 28.4 42.6
86 63.3 52.6 79.0





#25

2-Butanone

Concen: 0.74 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VN049808.D

Acq: 13 Jul 2018 20:02

Instrument :

MSVOA_N

ClientSampleId :

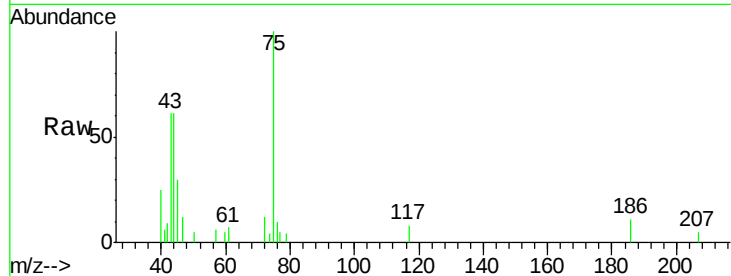
PB111069ZHE#11

Tot Ion: 43 Resp: 3825

Ion Ratio Lower Upper

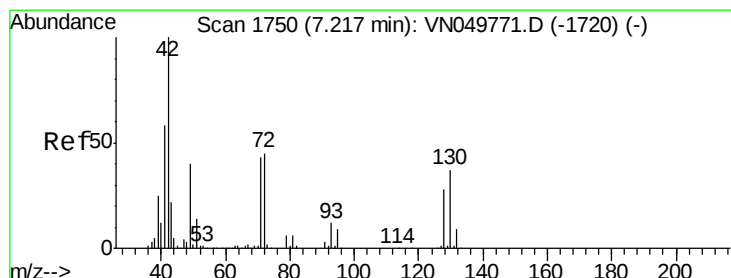
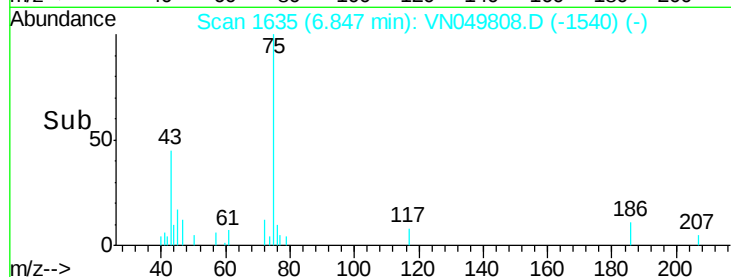
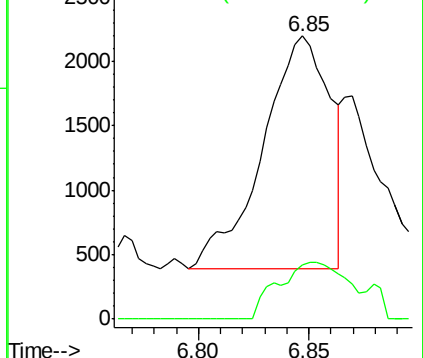
43 100

72 23.5 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.25 ug/l

RT: 7.23 min Scan# 1753

Delta R.T. 0.01 min

Lab File: VN049808.D

Acq: 13 Jul 2018 20:02

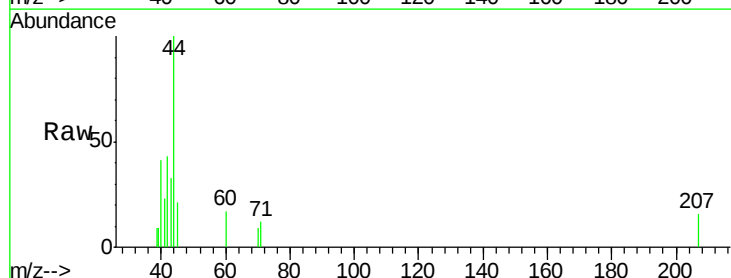
Tgt Ion: 42 Resp: 805

Ion Ratio Lower Upper

42 100

72 7.8 35.6 53.4#

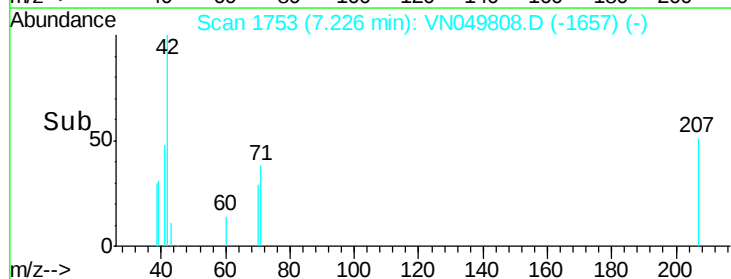
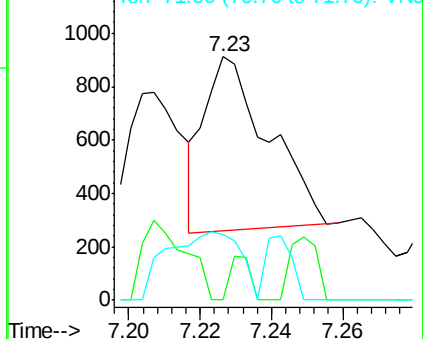
71 44.8 34.0 51.0

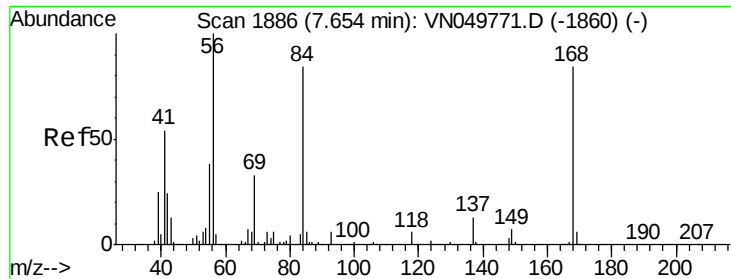


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

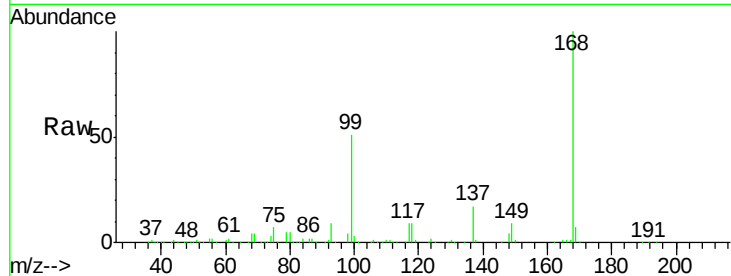




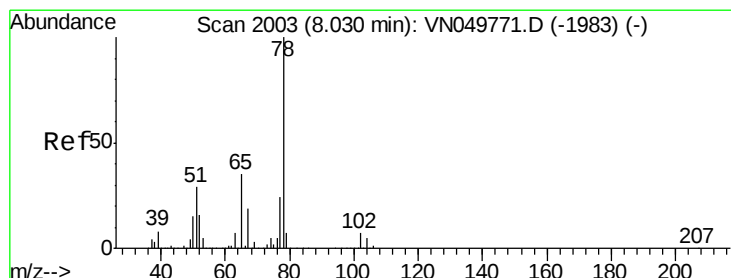
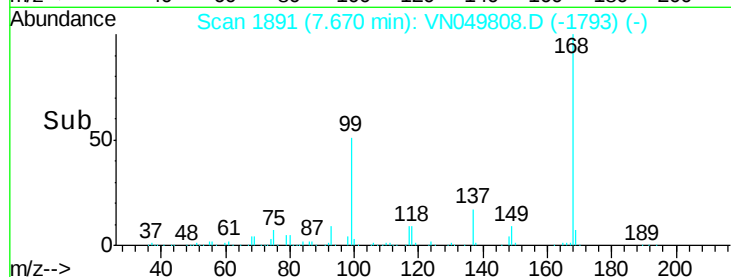
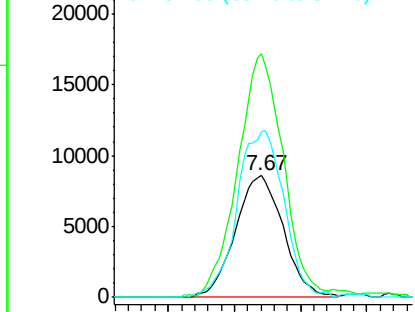
#31
Cyclohexane
Concen: 0.79 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN049808.D
Acq: 13 Jul 2018 20:02

Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#11

Tot Ion: 56 Resp: 21590
Ion Ratio Lower Upper
56 100
69 197.6 26.6 40.0#
84 136.3 69.0 103.6#

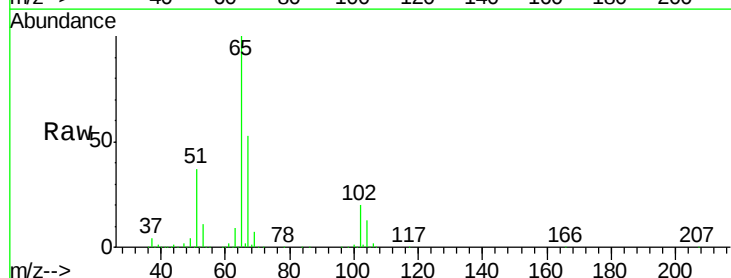


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

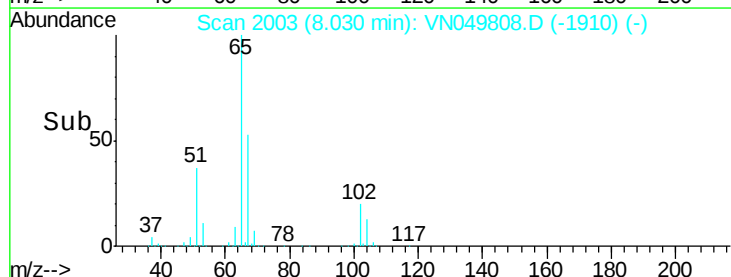
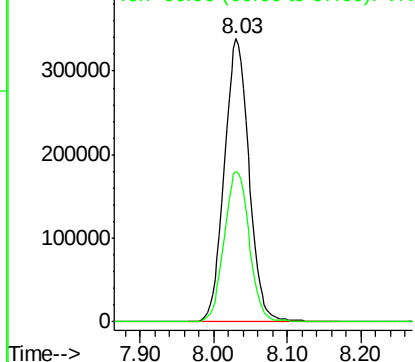


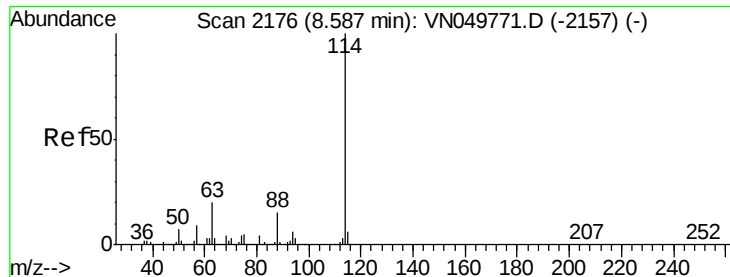
#33
1,2-Dichloroethane-d4
Concen: 59.11 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049808.D
Acq: 13 Jul 2018 20:02

Tgt Ion: 65 Resp: 787762
Ion Ratio Lower Upper
65 100
67 54.1 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

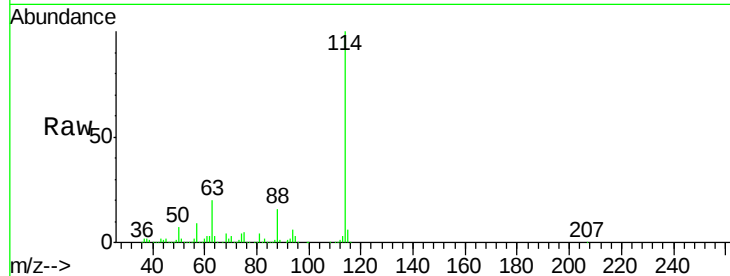




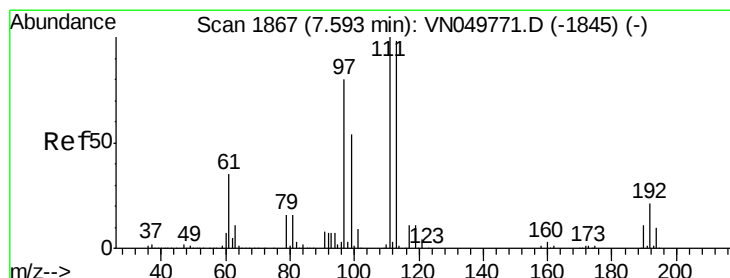
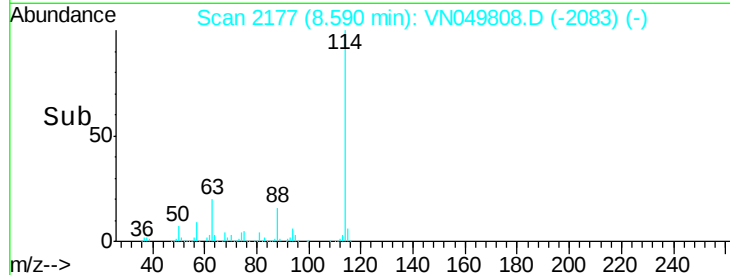
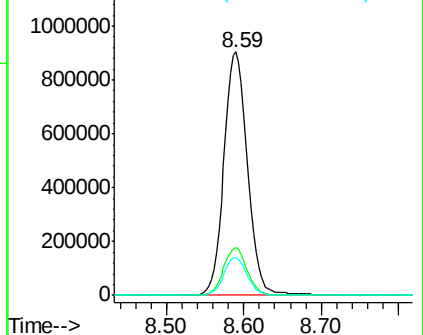
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049808.D
 Acq: 13 Jul 2018 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#11

Tot Ion:114 Resp: 1906370
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.8
 88 15.6 0.0 30.6

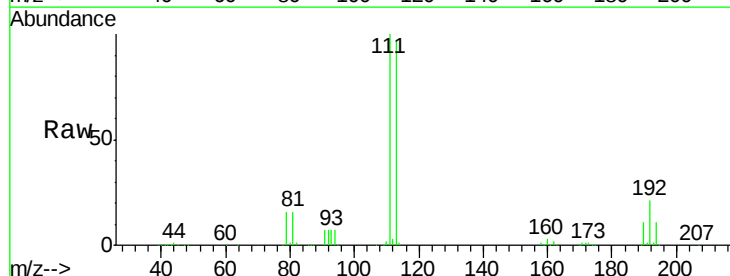


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

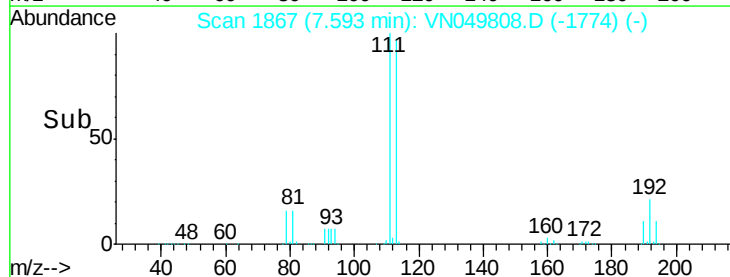
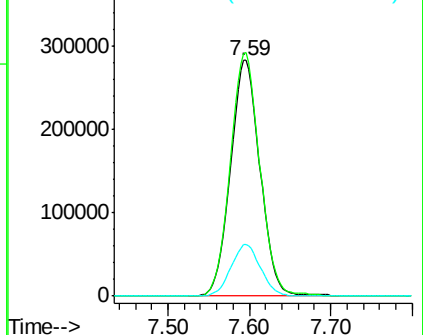


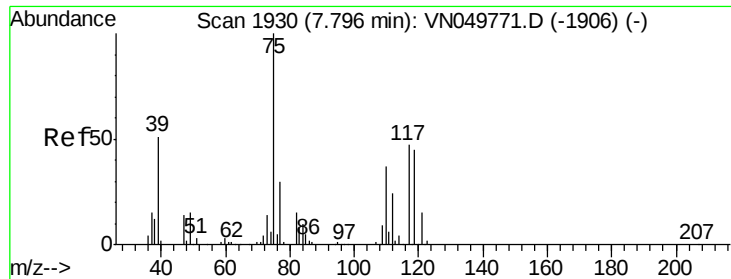
#35
 Dibromofluoromethane
 Concen: 49.85 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049808.D
 Acq: 13 Jul 2018 20:02

Tgt Ion:113 Resp: 716398
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.8 122.8
 192 21.9 17.8 26.6



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

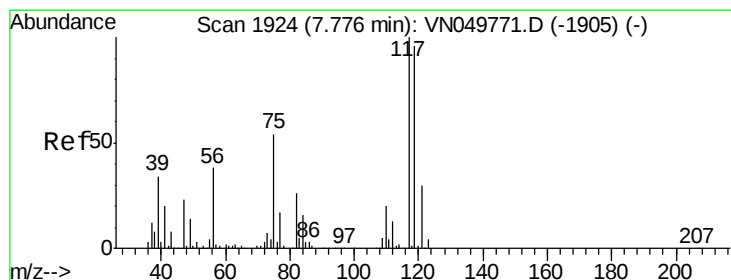
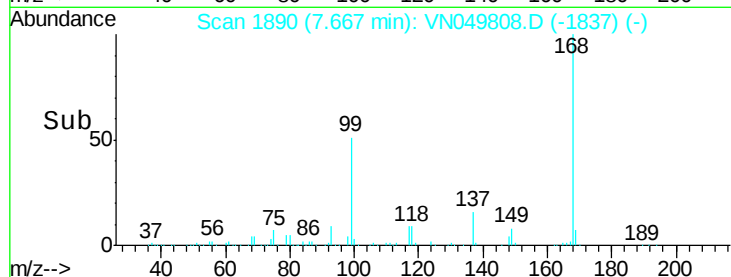
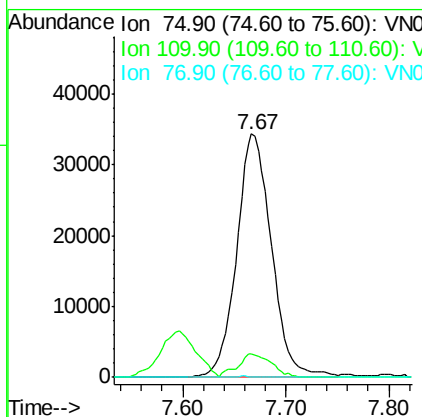
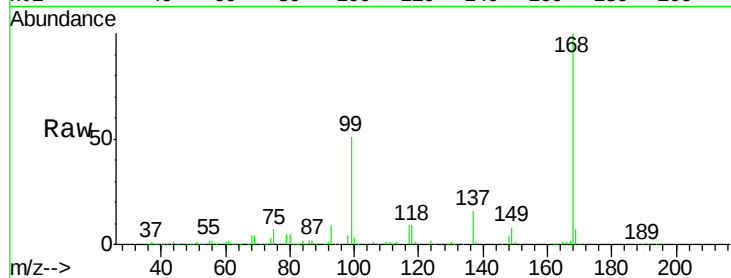




#36
 1,1-Dichloropropene
 Concen: 3.67 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049808.D
 Acq: 13 Jul 2018 20:02

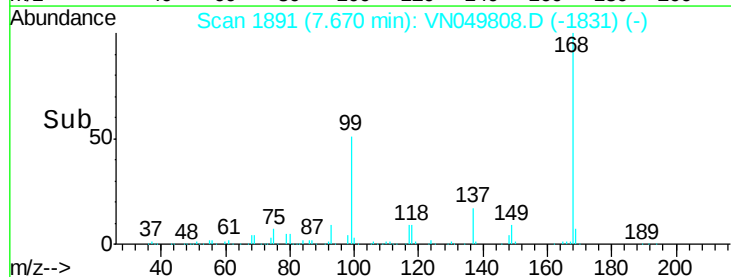
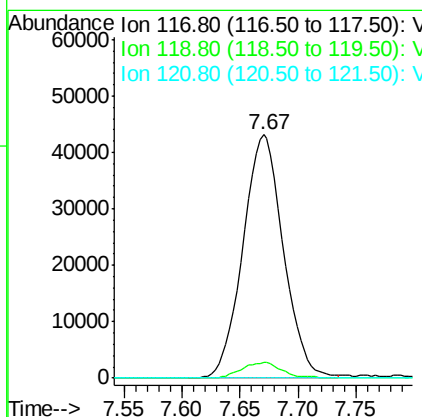
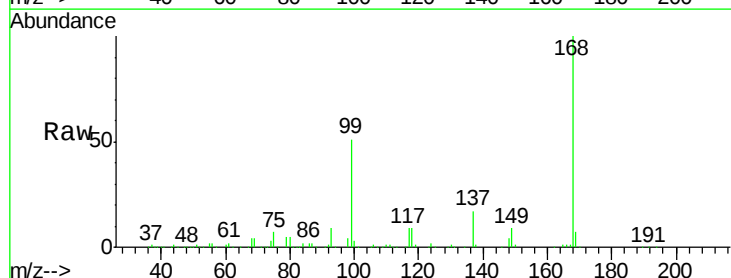
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#11

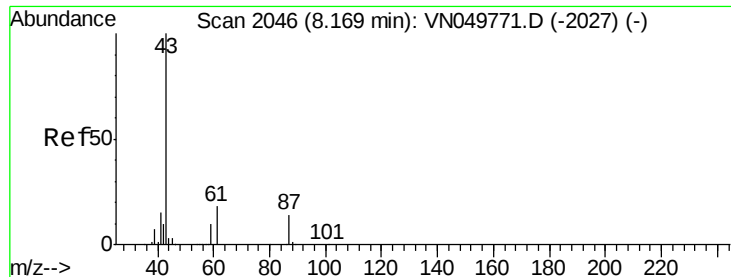
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.4#
77	0.1	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 4.56 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN049808.D
 Acq: 13 Jul 2018 20:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	77.2	115.8#
121	0.0	25.0	37.6#



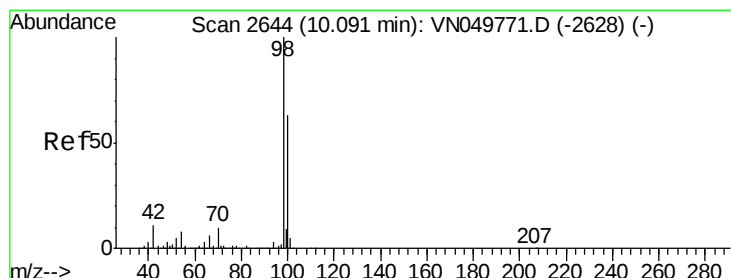
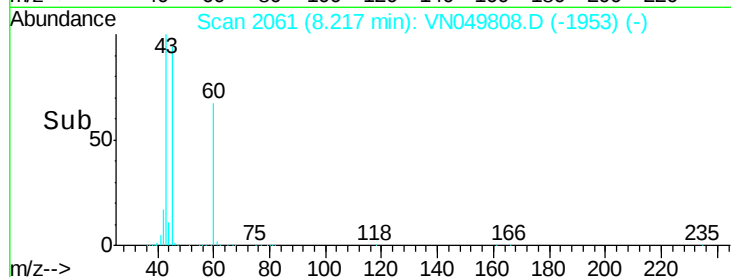
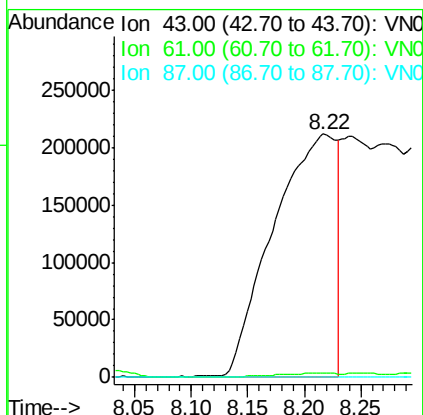
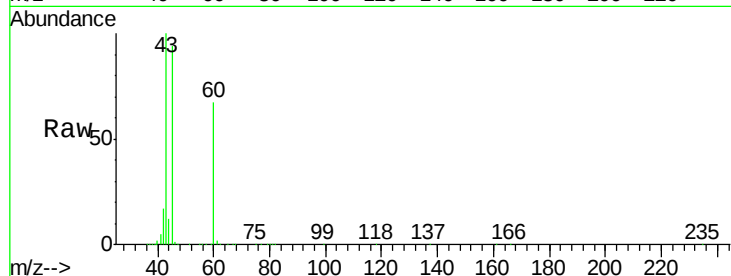


#43

Isopropyl Acetate
 Concen: 34.94 ug/l
 RT: 8.22 min Scan# 2061
 Delta R.T. 0.05 min
 Lab File: VN049808.D
 Acq: 13 Jul 2018 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#11

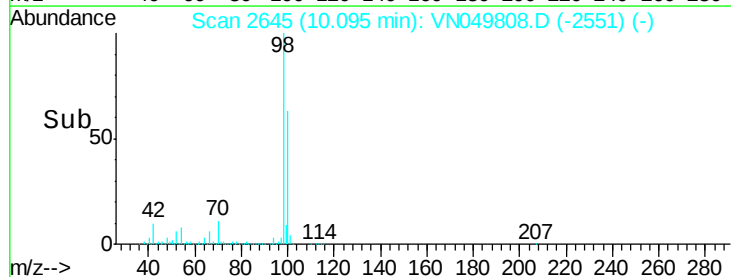
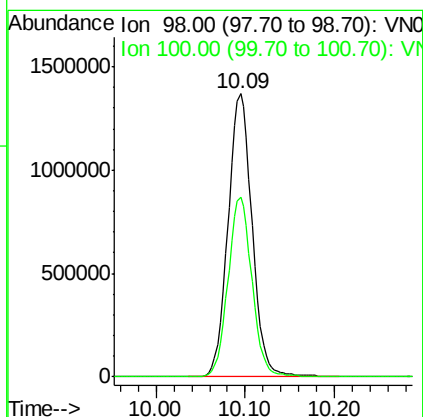
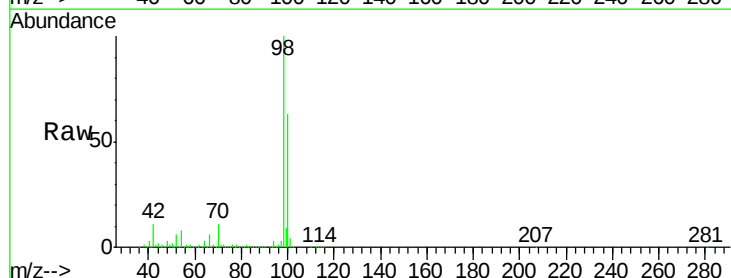
Tot Ion: 43 Resp: 816659
 Ion Ratio Lower Upper
 43 100
 61 1.7 14.9 22.3#
 87 0.0 10.0 15.0#

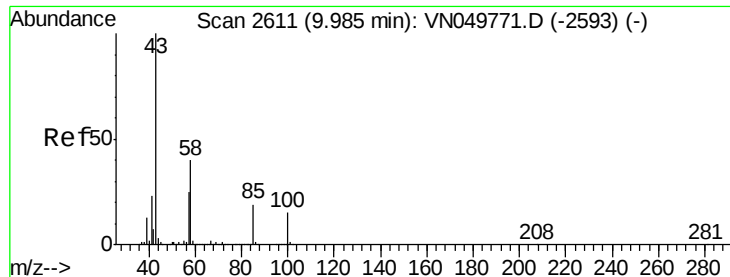


#50

Toluene-d8
 Concen: 52.06 ug/l
 RT: 10.09 min Scan# 2645
 Delta R.T. 0.00 min
 Lab File: VN049808.D
 Acq: 13 Jul 2018 20:02

Tgt Ion: 98 Resp: 2560553
 Ion Ratio Lower Upper
 98 100
 100 63.3 51.7 77.5

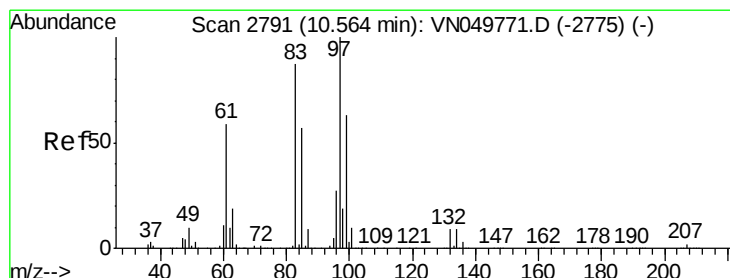
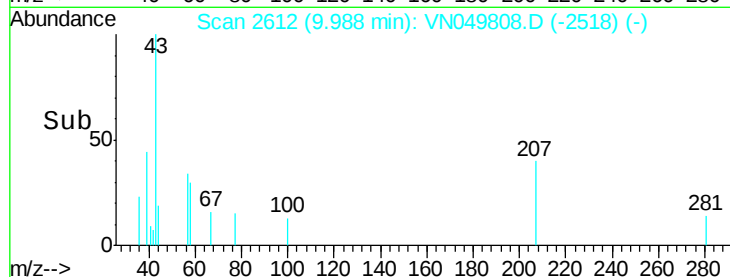
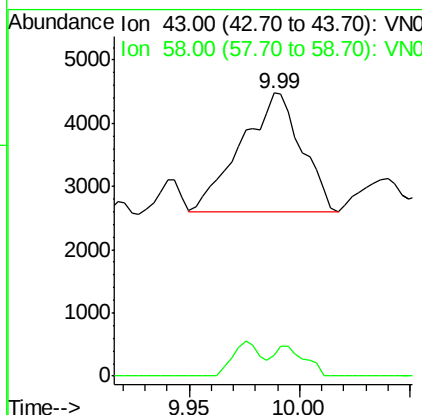
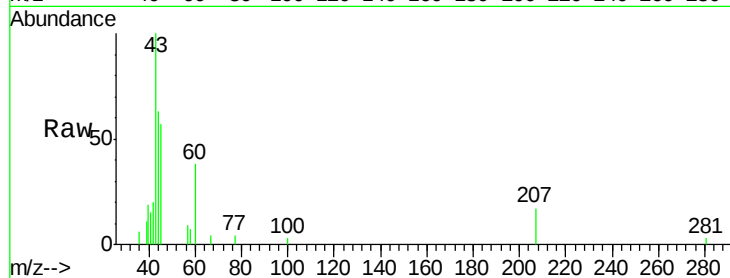




#51
4-Methyl-2-Pentanone
Concen: 0.28 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN049808.D
Acq: 13 Jul 2018 20:02

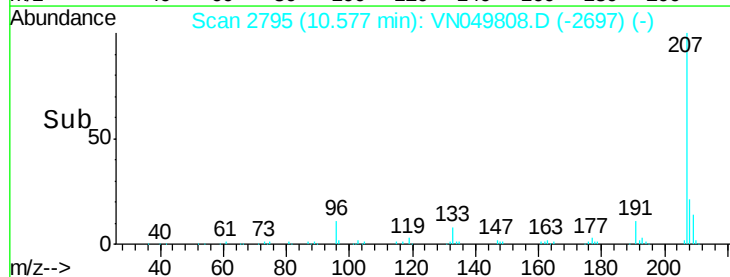
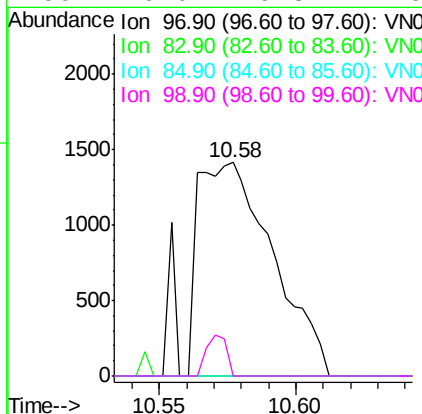
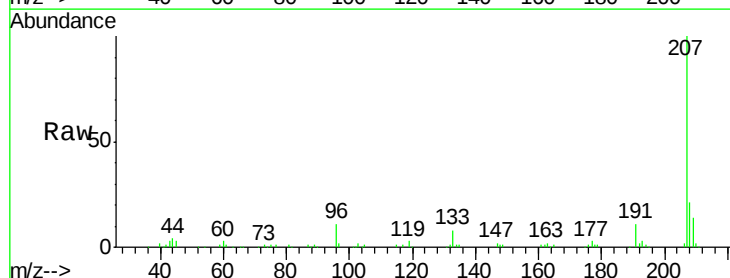
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#11

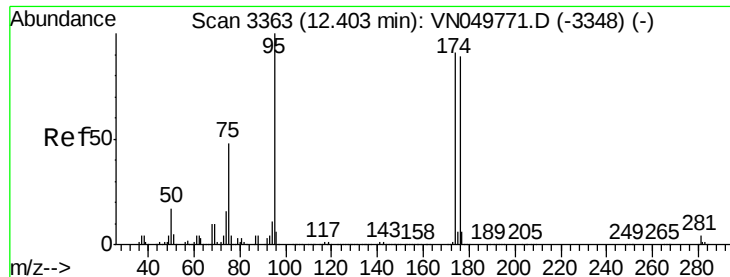
Tot Ion: 43 Resp: 3597
Ion Ratio Lower Upper
43 100
58 0.0 31.8 47.8#



#55
1,1,2-Trichloroethane
Concen: Below Cal
RT: 10.58 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN049808.D
Acq: 13 Jul 2018 20:02

Tgt Ion: 97 Resp: 2690
Ion Ratio Lower Upper
97 100
83 0.0 69.0 103.6#
85 0.0 44.9 67.3#
99 0.0 49.8 74.6#

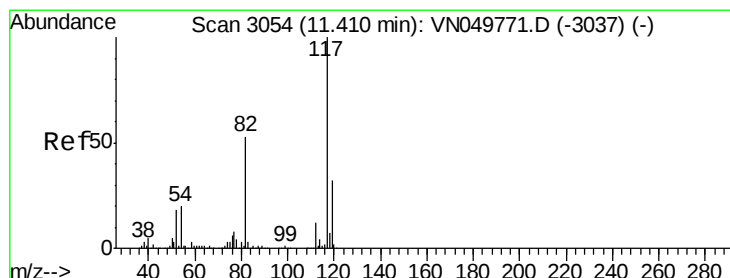
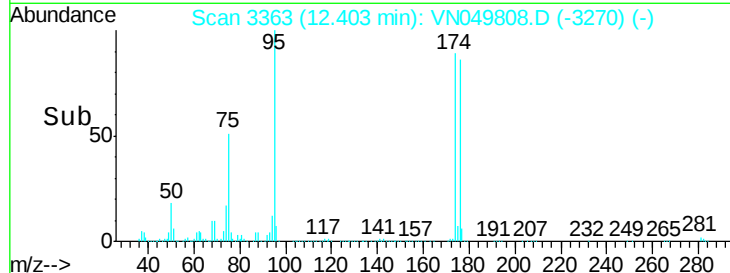
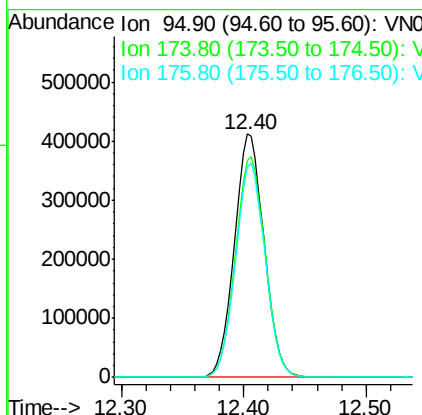
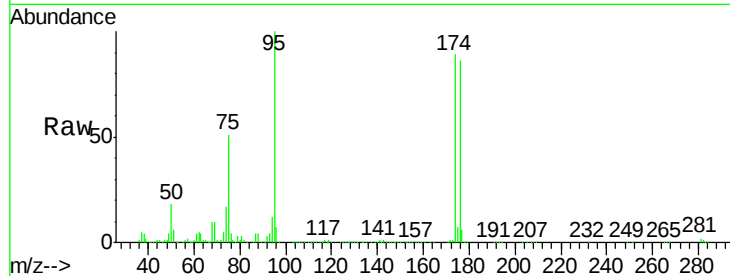




#62
4-Bromofluorobenzene
Concen: 39.59 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049808.D
Acq: 13 Jul 2018 20:02

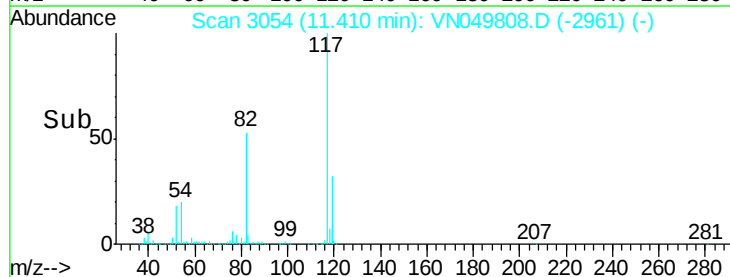
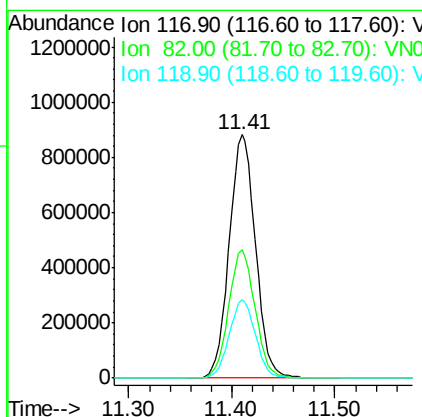
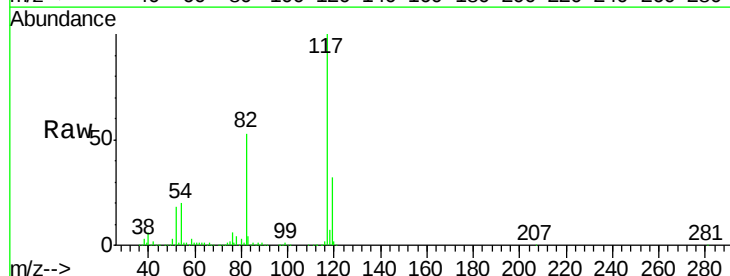
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#11

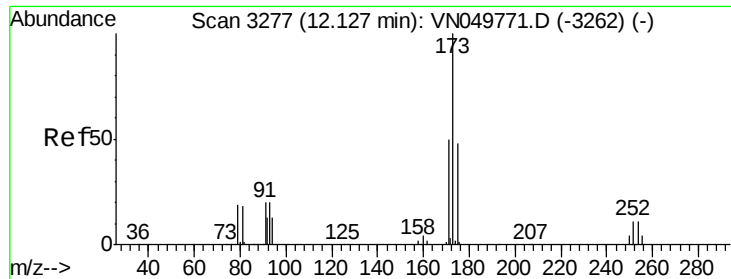
Tot Ion: 95 Resp: 695578
Ion Ratio Lower Upper
95 100
174 91.0 0.0 179.6
176 87.2 0.0 174.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049808.D
Acq: 13 Jul 2018 20:02

Tgt Ion: 117 Resp: 1567602
Ion Ratio Lower Upper
117 100
82 52.6 41.9 62.9
119 32.2 25.4 38.2





#71

Bromoform

Concen: 0.57 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049808.D

Acq: 13 Jul 2018 20:02

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#11

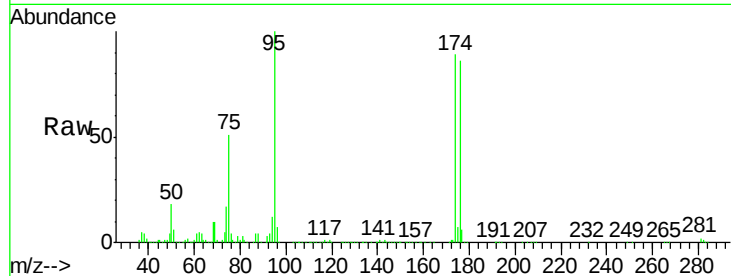
Tot Ion:173 Resp: 5953

Ion Ratio Lower Upper

173 100

175 625.0 24.6 73.8#

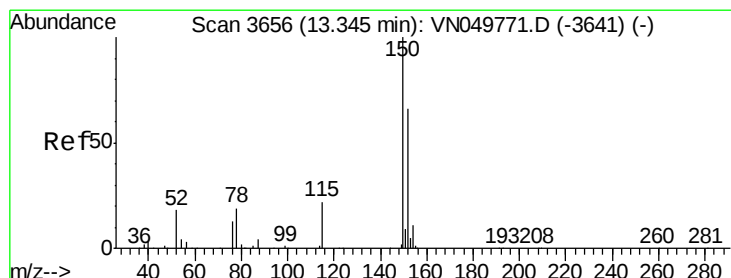
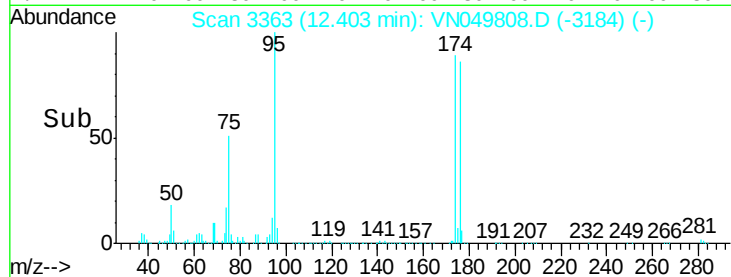
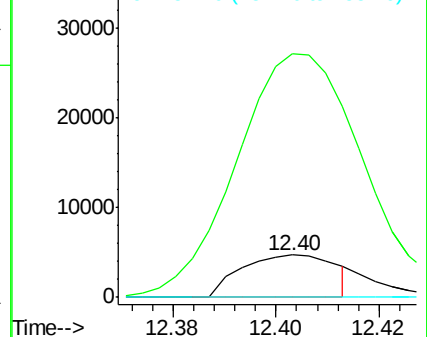
254 0.0 0.2 0.2#



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: VN049808.D

Acq: 13 Jul 2018 20:02

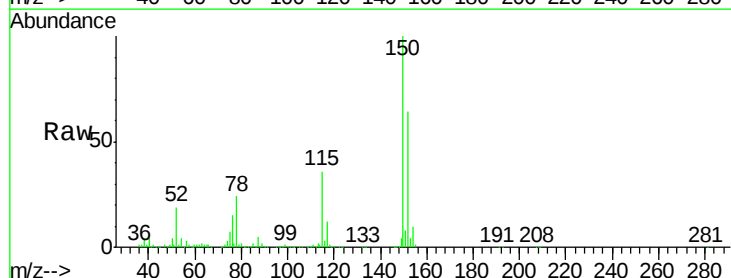
Tgt Ion:152 Resp: 575986

Ion Ratio Lower Upper

152 100

115 56.3 28.1 84.2

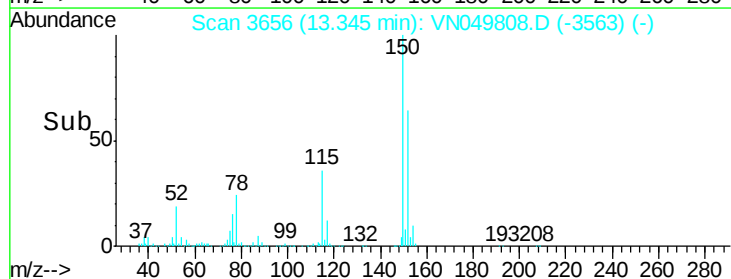
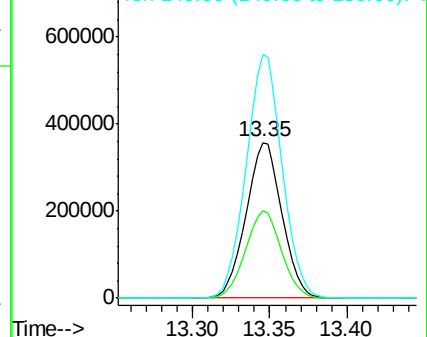
150 157.3 0.0 347.6

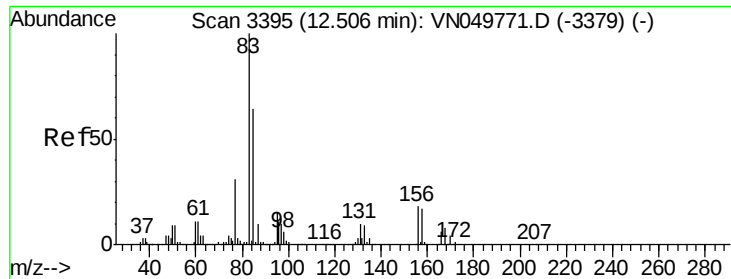


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.50 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VN049808.D

Acq: 13 Jul 2018 20:02

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#11

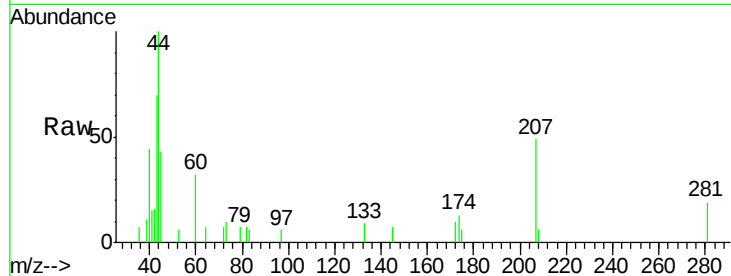
Tot Ion: 83 Resp: 31

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

85 0.0 32.5 97.4#



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC

12.50

150

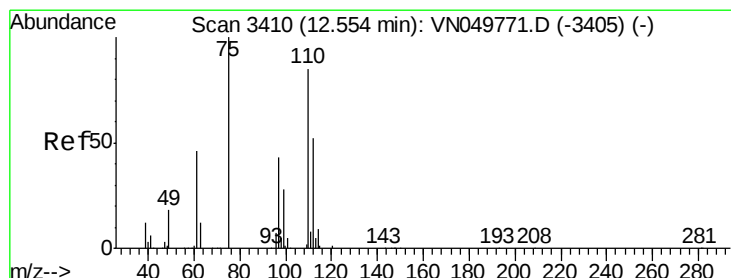
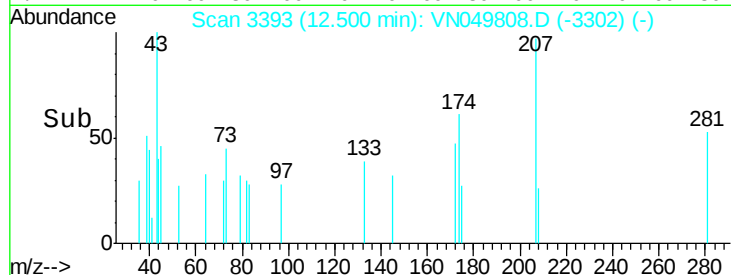
100

50

0

12.49 12.50 12.51

Time-->



#76

1,2,3-Trichloropropane

Concen: 34.13 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049808.D

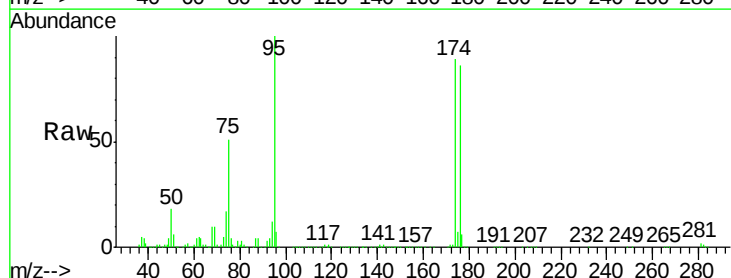
Acq: 13 Jul 2018 20:02

Tgt Ion: 75 Resp: 349274

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC

250000

200000

150000

100000

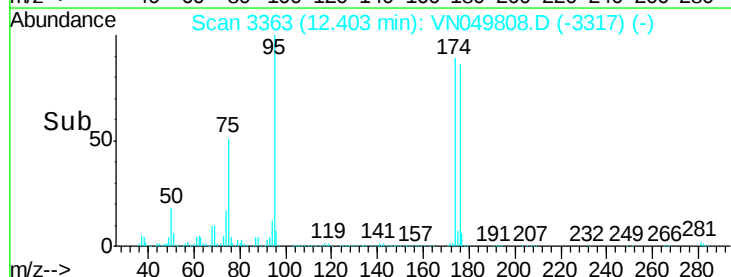
50000

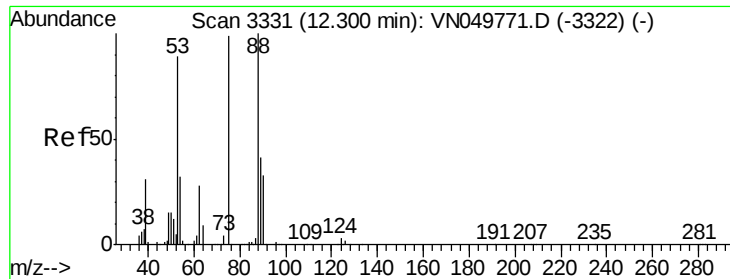
0

12.40

12.50

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 110.23 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049808.D

Acq: 13 Jul 2018 20:02

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#11

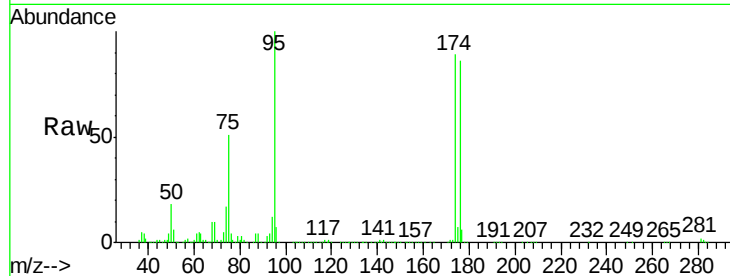
Tot Ion: 75 Resp: 349274

Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

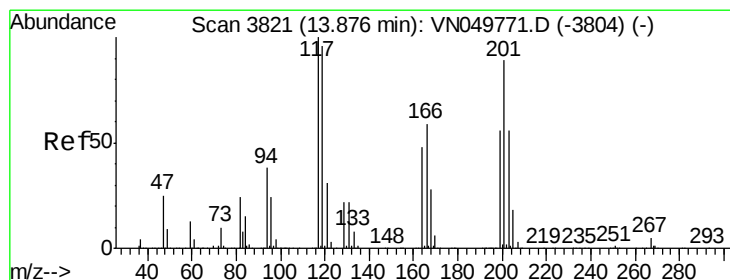
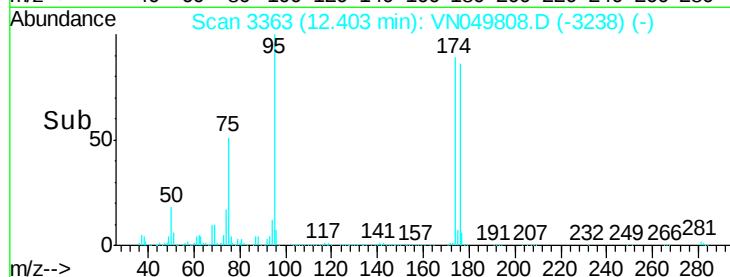
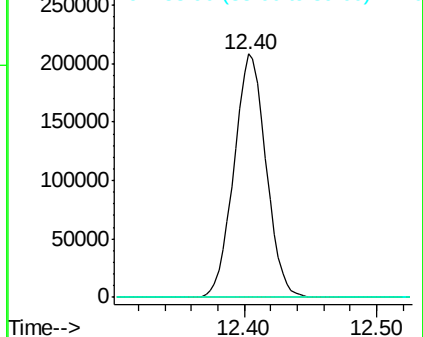
89 0.0 35.9 53.9#



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



#90

Hexachloroethane

Concen: Below Cal

RT: 13.88 min Scan# 3822

Delta R.T. 0.00 min

Lab File: VN049808.D

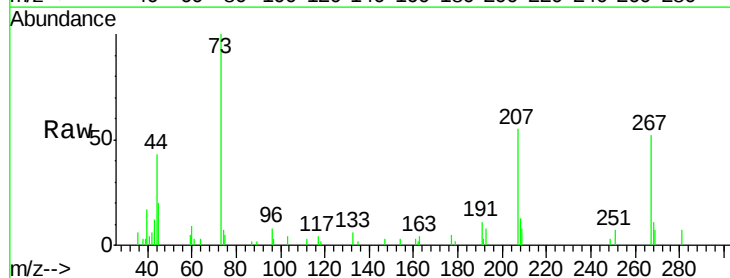
Acq: 13 Jul 2018 20:02

Tgt Ion: 117 Resp: 136

Ion Ratio Lower Upper

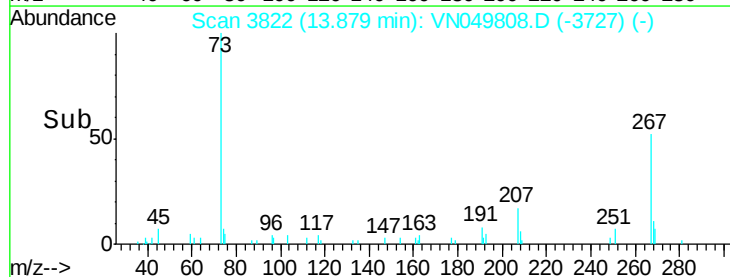
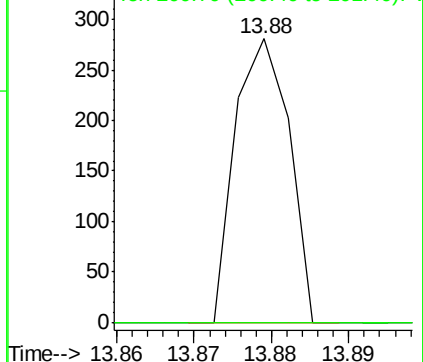
117 100

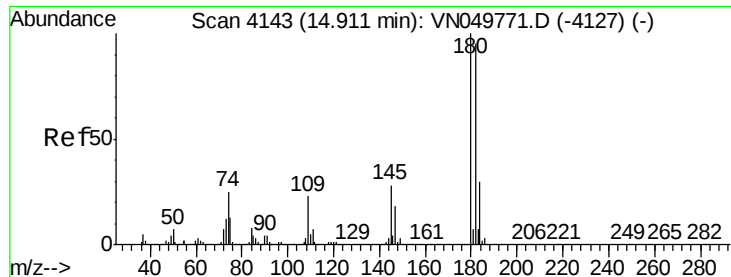
201 0.0 45.3 135.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

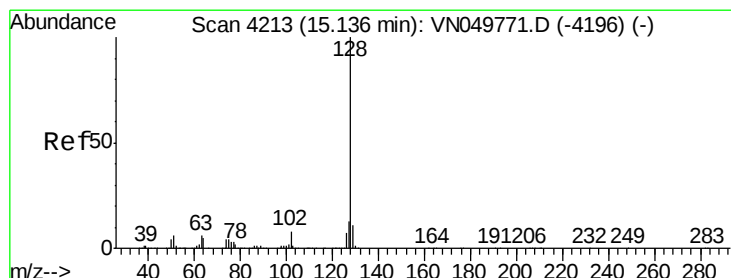
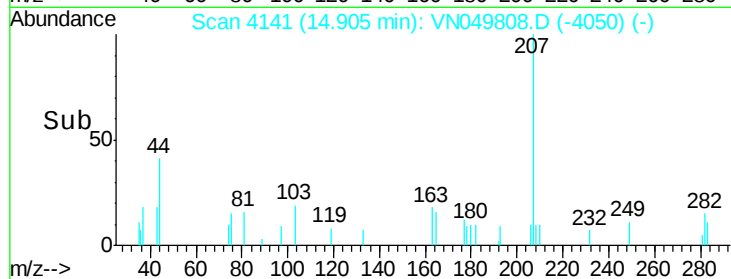
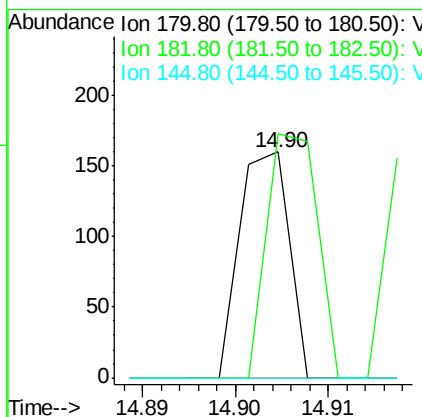
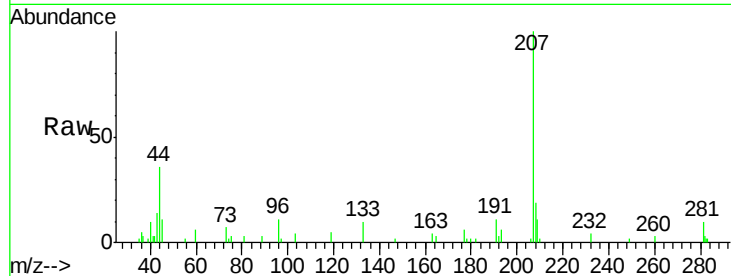




#93
 1,2,4-Trichlorobenzene
 Concen: 2.89 ug/l
 RT: 14.90 min Scan# 4141
 Delta R.T. -0.01 min
 Lab File: VN049808.D
 Acq: 13 Jul 2018 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#11

Tot Ion:180 Resp: 60
 Ion Ratio Lower Upper
 180 100
 182 110.0 47.3 141.9
 145 0.0 14.4 43.0#



#95
 Naphthalene
 Concen: 4.05 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN049808.D
 Acq: 13 Jul 2018 20:02

Tgt Ion:128 Resp: 655
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 0.0 8.6 13.0#

