

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101218\
 Data File : VN051848.D
 Acq On : 12 Oct 2018 22:24
 Operator : MD\SY
 Sample : PB113779ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113779ZHE#01

Quant Time: Oct 13 02:09:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 09:51:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	865634	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1249148	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1101414	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	402456	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	464928	56.19	ug/l	0.00
Spiked Amount			Recovery	=	112.38%	
35) Dibromofluoromethane	7.59	113	464102	59.75	ug/l	0.00
Spiked Amount			Recovery	=	119.50%	
50) Toluene-d8	10.09	98	1721600	59.48	ug/l	0.00
Spiked Amount			Recovery	=	118.96%	
62) 4-Bromofluorobenzene	12.40	95	506771	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	

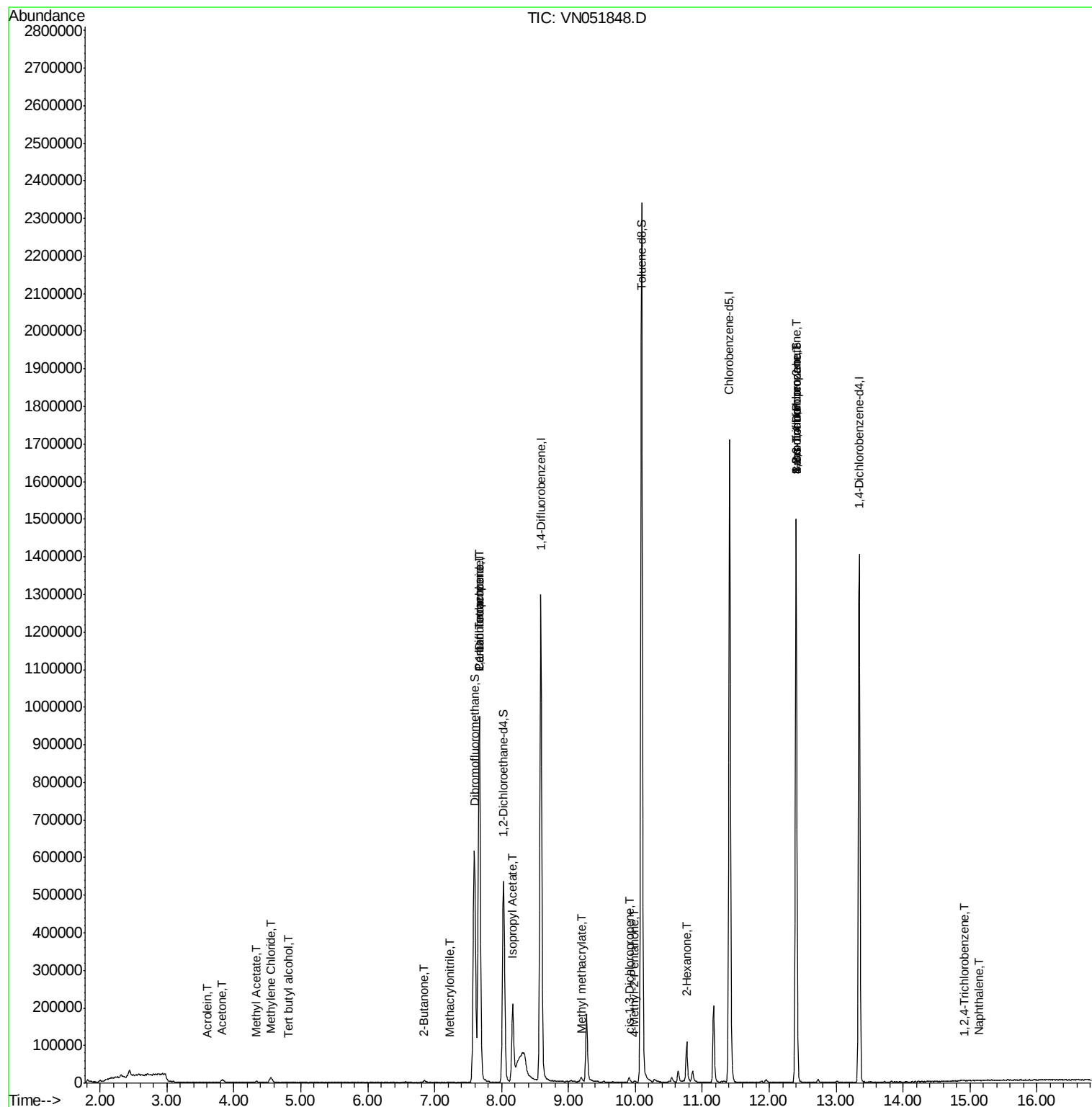
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.82	59	127	0.209	ug/l #	72
13) Acrolein	3.61	56	33	15.990	ug/l #	1
16) Acetone	3.83	43	13380	7.498	ug/l	93
18) Methyl Acetate	4.33	43	6086	0.219	ug/l #	71
20) Methylene Chloride	4.55	84	10822	1.465	ug/l #	83
25) 2-Butanone	6.85	43	5973	2.369	ug/l #	77
31) Cyclohexane	7.66	56	14671	Below Cal	#	21
36) 1,1-Dichloropropene	7.67	75	55220	5.460	ug/l #	50
38) Carbon Tetrachloride	7.67	117	78626	6.707	ug/l #	16
41) Methacrylonitrile	7.22	41	623	0.249	ug/l #	36
43) Isopropyl Acetate	8.17	43	239079	22.773	ug/l #	96
48) Methyl methacrylate	9.18	41	5025	1.086	ug/l #	27
51) 4-Methyl-2-Pentanone	9.98	43	1438	0.267	ug/l #	86
54) cis-1,3-Dichloropropene	9.90	75	2626	0.227	ug/l #	70
59) 2-Hexanone	10.76	43	14386	3.800	ug/l	68
71) Bromoform	12.40	173	4080	4.146	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	250823	50.518	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	250823	143.517	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	237	3.687	ug/l #	83
95) Naphthalene	15.14	128	732	4.441	ug/l #	69

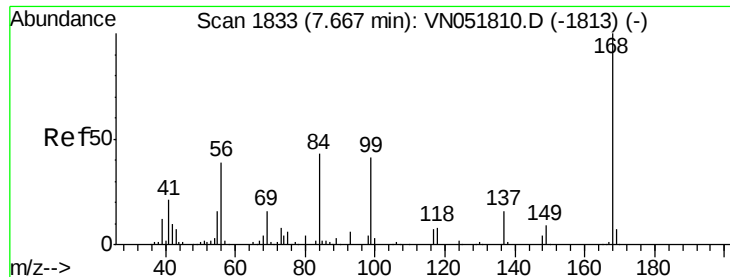
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

Instrument :

MSVOA_N

ClientSampleId :

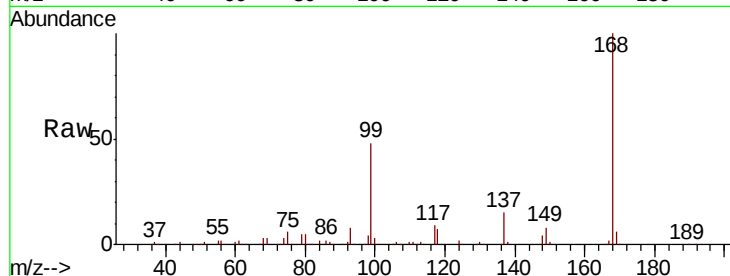
PB113779ZHE#01

Tot Ion:168 Resp: 865634

Ion Ratio Lower Upper

168 100

99 48.5 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN051848.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051848.D (-1740) (-)

7.67

400000

300000

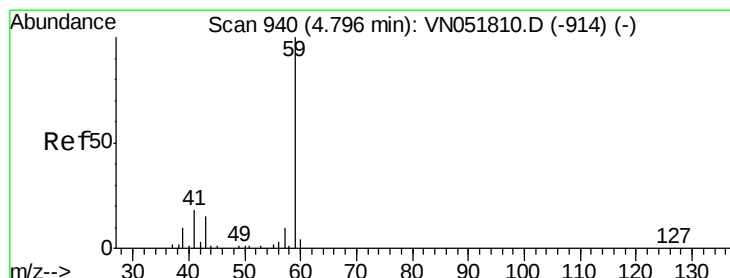
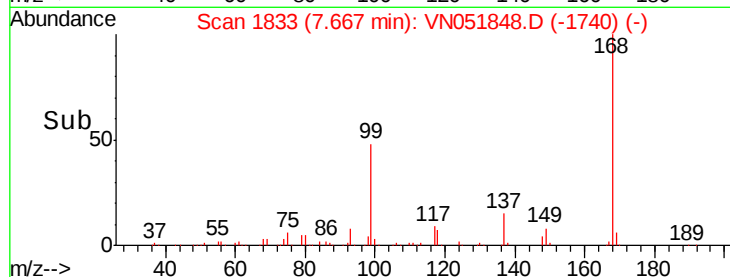
200000

100000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.209 ug/l

RT: 4.82 min Scan# 947

Delta R.T. 0.02 min

Lab File: VN051848.D

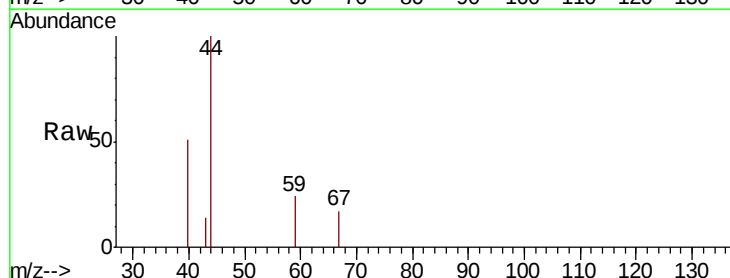
Acq: 12 Oct 2018 22:24

Tgt Ion: 59 Resp: 127

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN051848.D (-847) (-)

Ion 57.00 (56.70 to 57.70): VN051848.D (-847) (-)

4.82

300

250

200

150

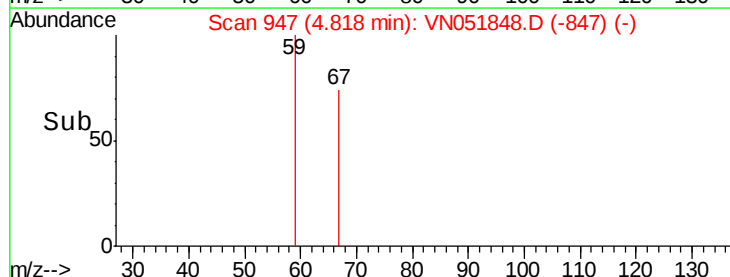
100

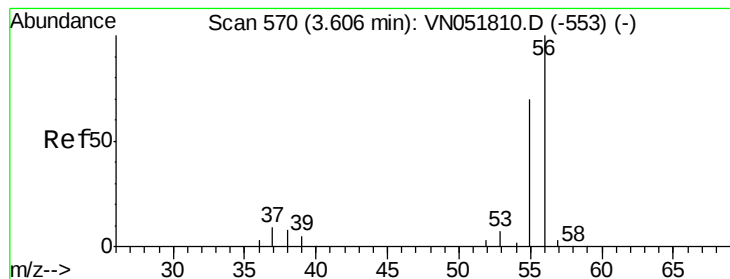
50

0

4.80 4.81 4.82 4.83

Time-->





#13

Acrolein

Concen: 15.990 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

Instrument :

MSVOA_N

ClientSampleId :

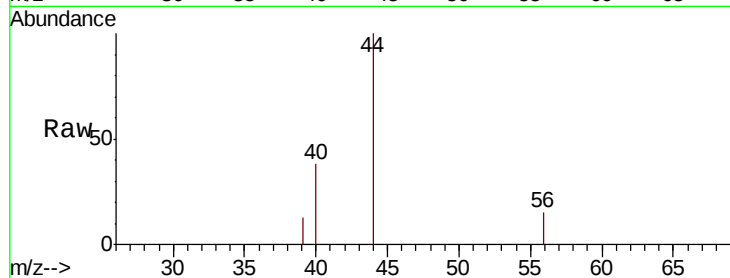
PB113779ZHE#01

Tot Ion: 56 Resp: 33

Ion Ratio Lower Upper

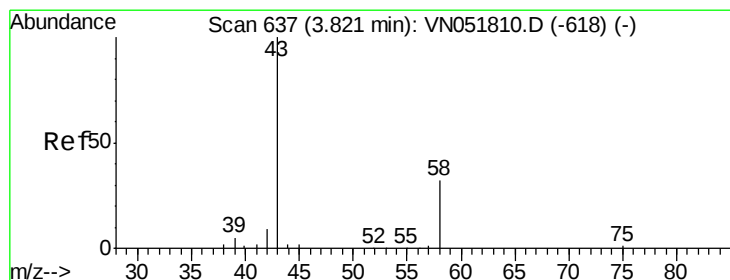
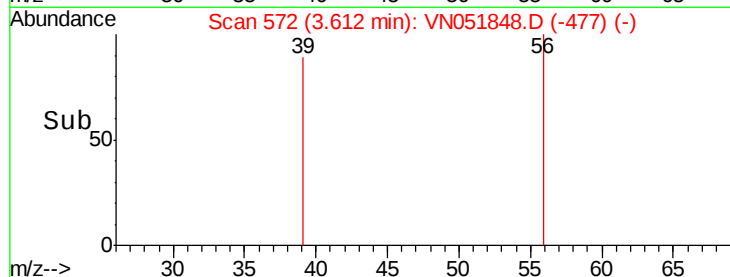
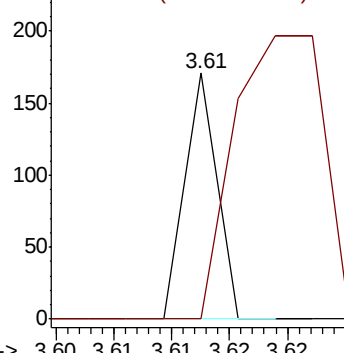
56 100

55 318.2 57.7 86.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 7.498 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051848.D

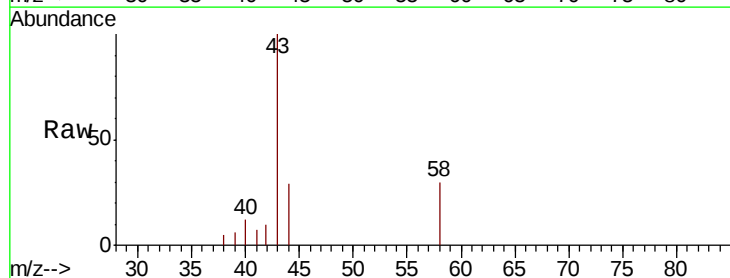
Acq: 12 Oct 2018 22:24

Tgt Ion: 43 Resp: 13380

Ion Ratio Lower Upper

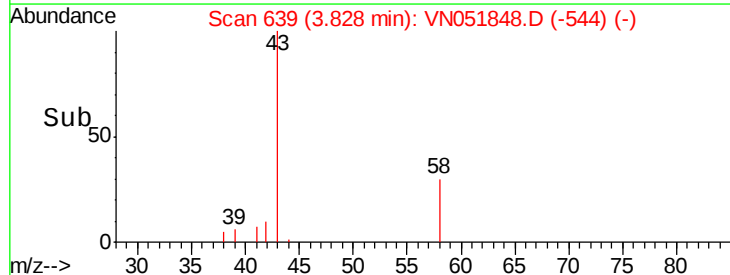
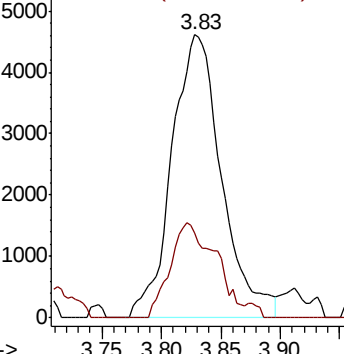
43 100

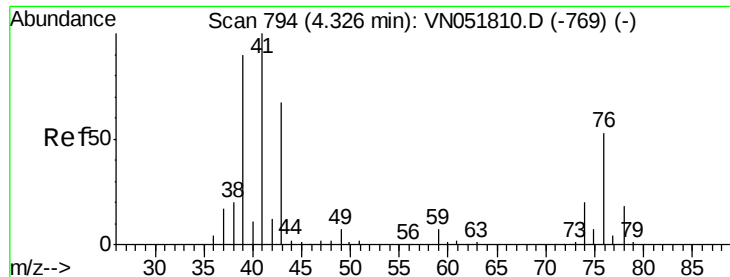
58 29.8 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#18

Methyl Acetate

Concen: 0.219 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

Instrument :

MSVOA_N

ClientSampleId :

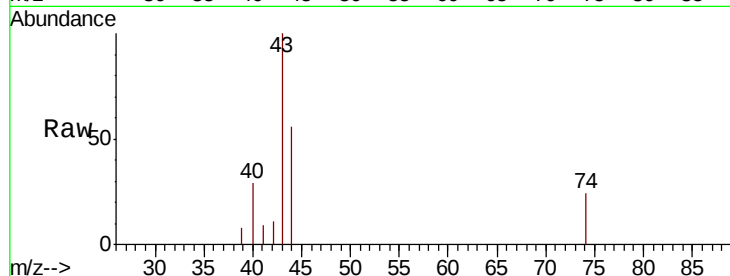
PB113779ZHE#01

Tot Ion: 43 Resp: 6086

Ion Ratio Lower Upper

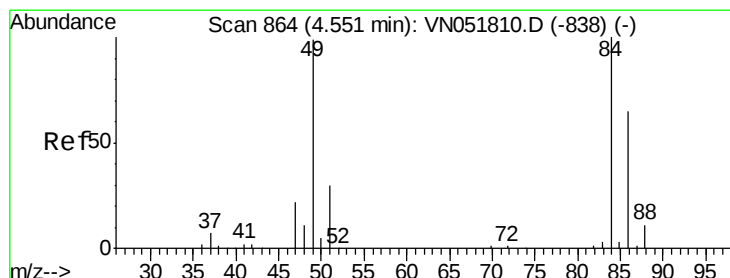
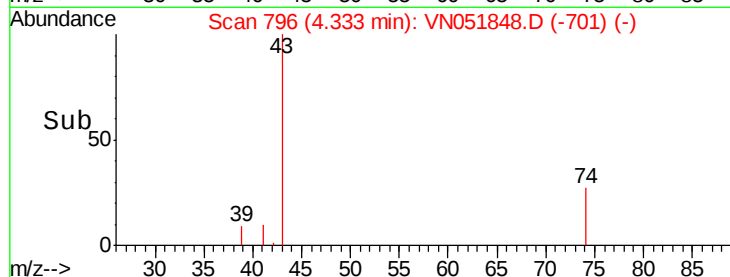
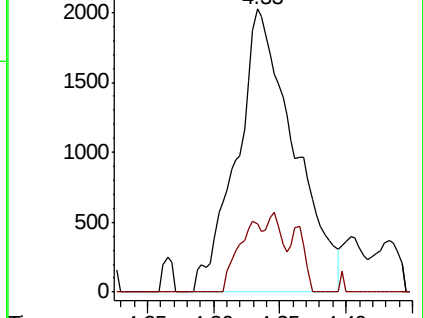
43 100

74 10.3 19.8 29.8#



Abundance Ion 43.00 (42.70 to 43.70): VN051848.D (-769) (-)

Ion 74.00 (73.70 to 74.70): VN051848.D (-769) (-)



#20

Methylene Chloride

Concen: 1.465 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

Tgt Ion: 84 Resp: 10822

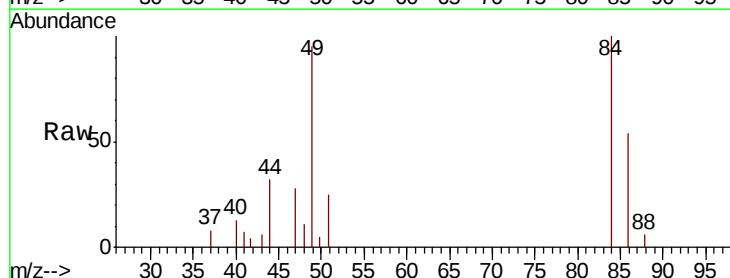
Ion Ratio Lower Upper

84 100

49 94.8 93.2 139.8

51 25.2 29.0 43.6#

86 54.3 49.8 74.8

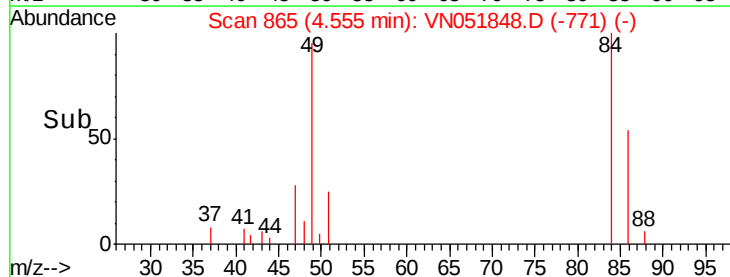
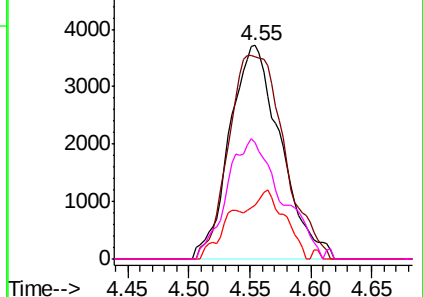


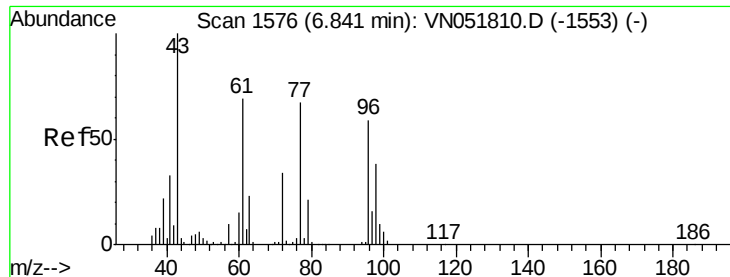
Abundance Ion 83.90 (83.60 to 84.60): VN051848.D (-838) (-)

Ion 48.90 (48.60 to 49.60): VN051848.D (-838) (-)

Ion 50.90 (50.60 to 51.60): VN051848.D (-838) (-)

Ion 85.90 (85.60 to 86.60): VN051848.D (-838) (-)

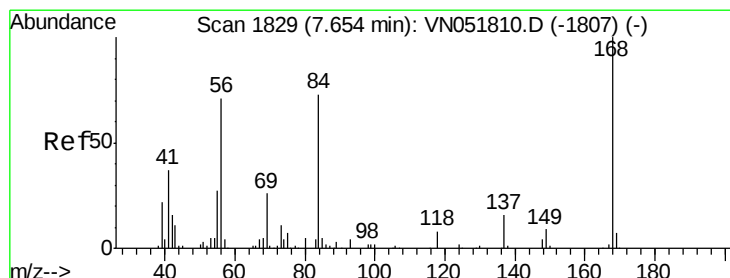
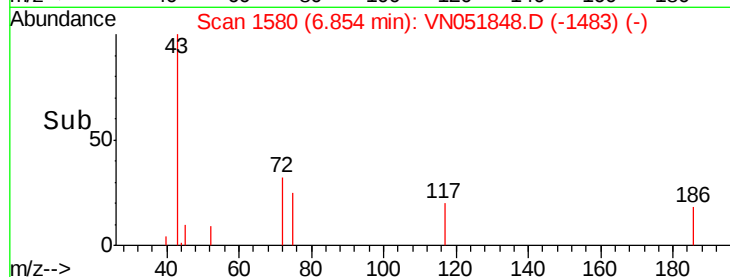
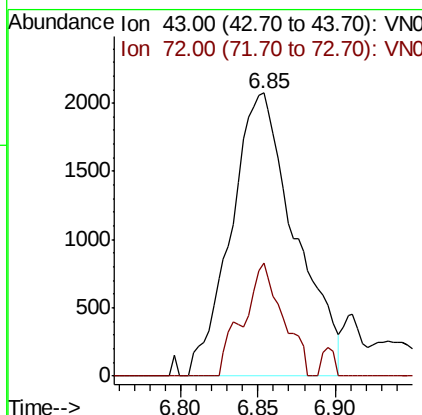
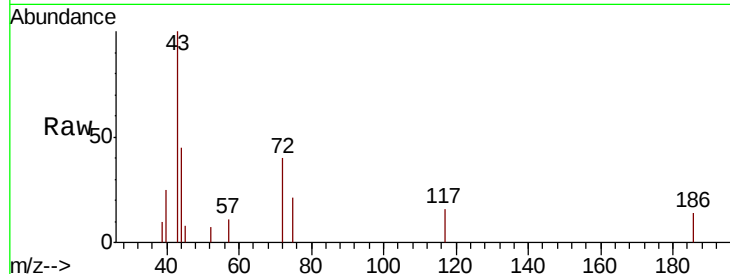




#25
2-Butanone
Concen: 2.369 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN051848.D
Acq: 12 Oct 2018 22:24

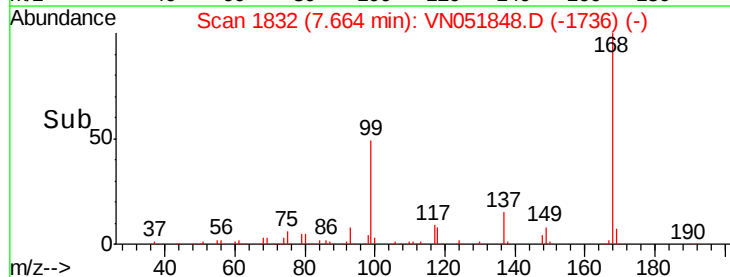
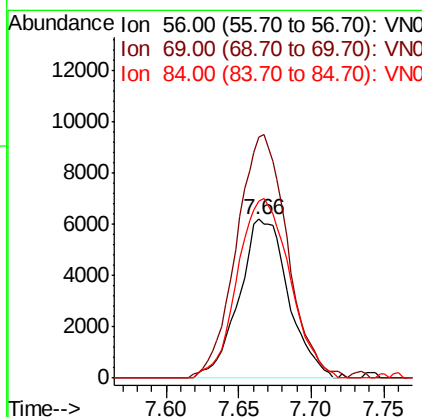
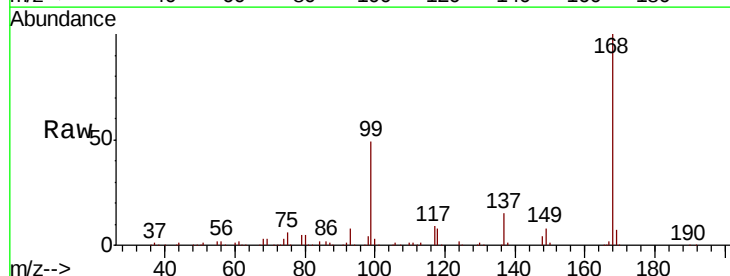
Instrument :
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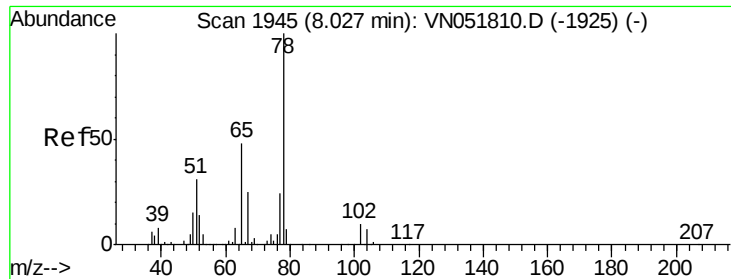
Tot Ion: 43 Resp: 5973
Ion Ratio Lower Upper
43 100
72 40.0 22.3 33.5#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051848.D
Acq: 12 Oct 2018 22:24

Tgt Ion: 56 Resp: 14671
Ion Ratio Lower Upper
56 100
69 152.0 26.2 39.4#
84 111.7 68.3 102.5#

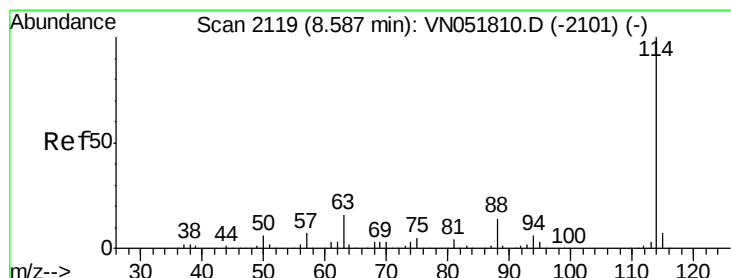
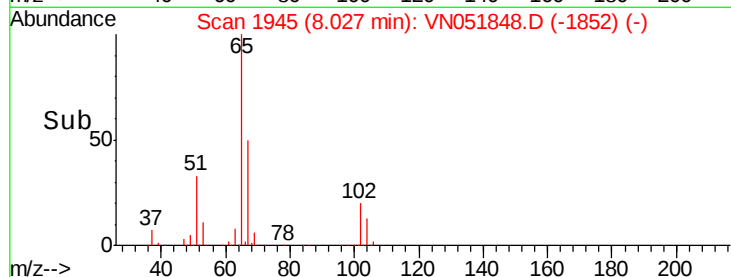
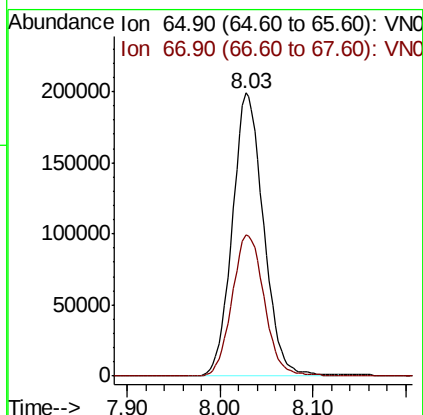
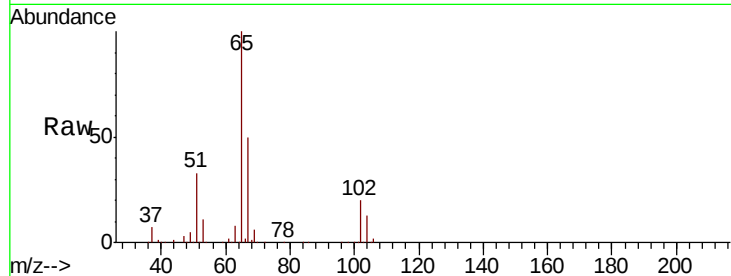




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051848.D
 Acq: 12 Oct 2018 22:24

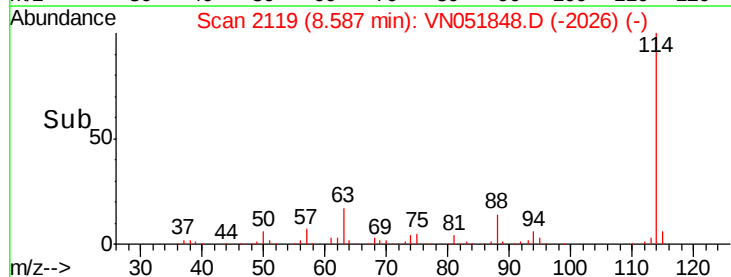
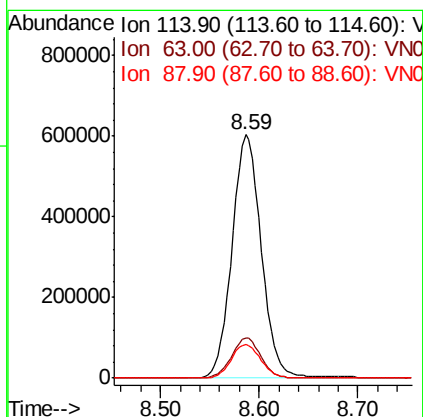
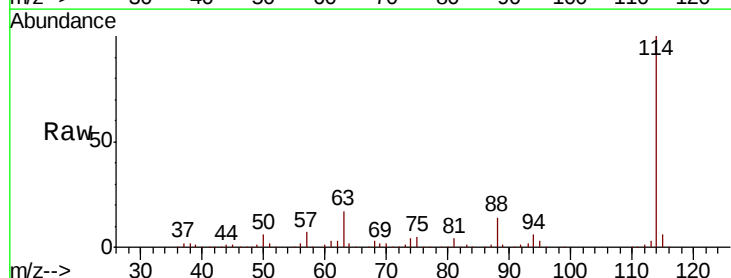
Instrument :
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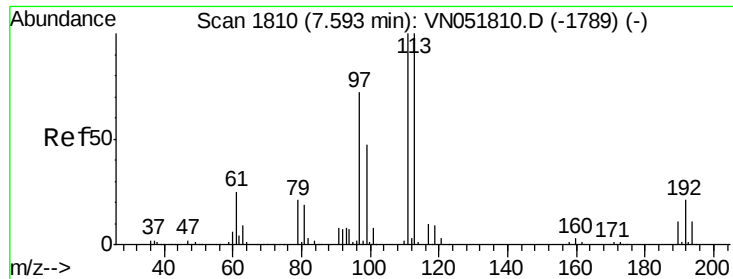
Tot Ion: 65 Resp: 464928
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051848.D
 Acq: 12 Oct 2018 22:24

Tgt Ion: 114 Resp: 1249148
 Ion Ratio Lower Upper
 114 100
 63 16.6 0.0 38.6
 88 14.0 0.0 30.6

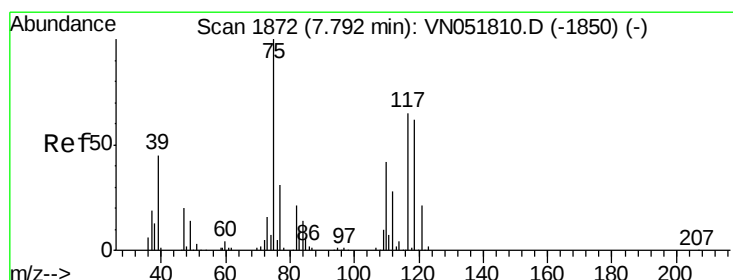
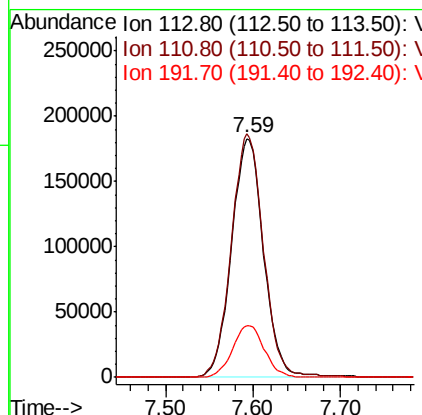
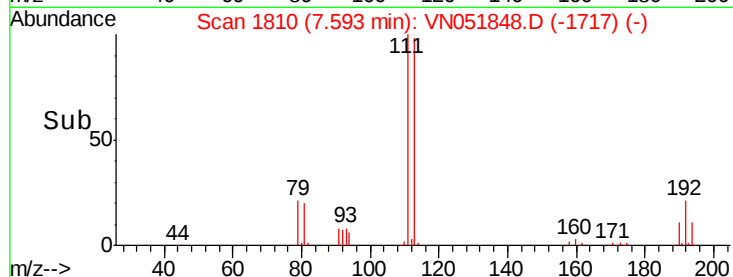
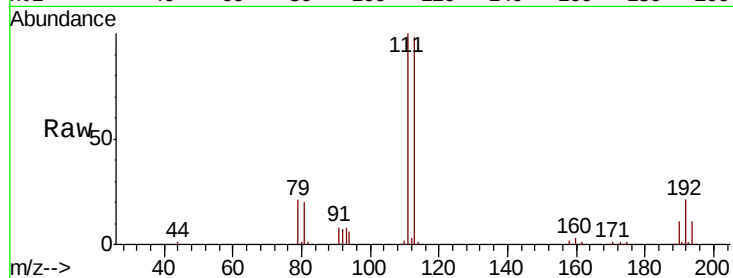




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051848.D
 Acq: 12 Oct 2018 22:24

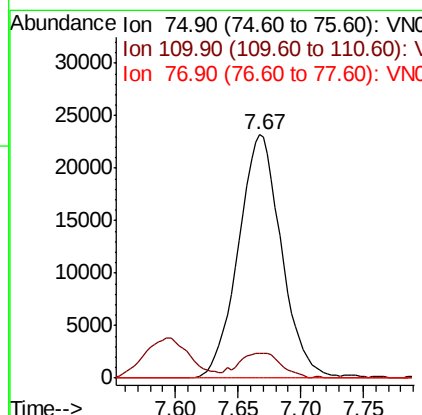
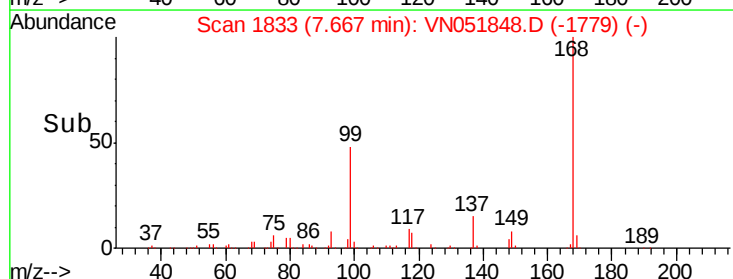
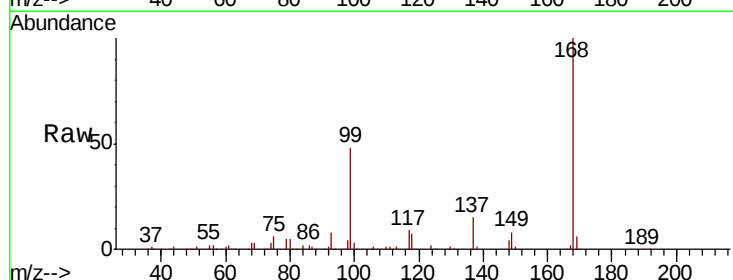
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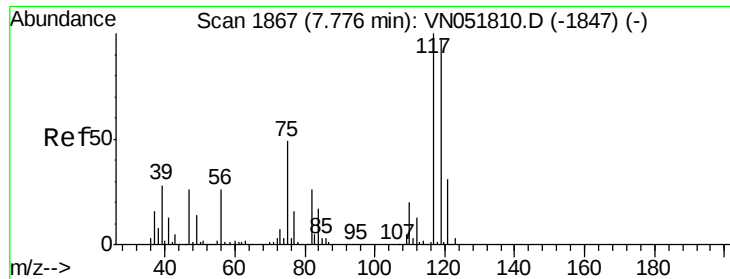
Tot Ion:113 Resp: 464102
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.6 123.8
 192 21.6 18.0 27.0



#36
 1,1-Dichloropropene
 Concen: 5.460 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051848.D
 Acq: 12 Oct 2018 22:24

Tgt Ion: 75 Resp: 55220
 Ion Ratio Lower Upper
 75 100
 110 10.2 18.1 54.4#
 77 0.0 24.8 37.2#

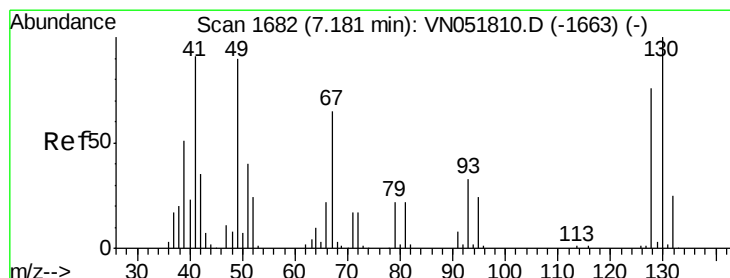
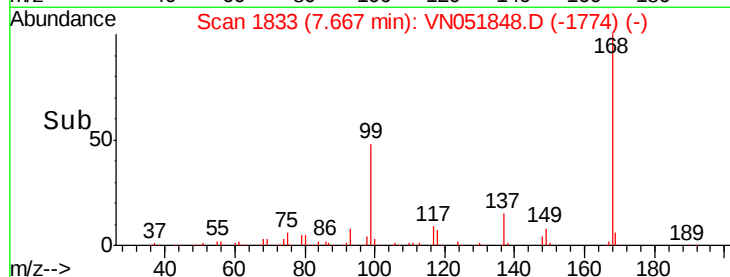
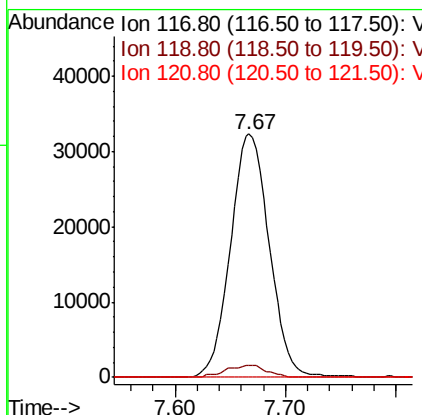
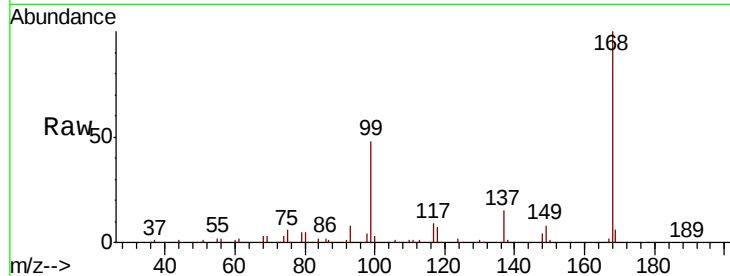




#38
Carbon Tetrachloride
Concen: 6.707 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051848.D
Acq: 12 Oct 2018 22:24

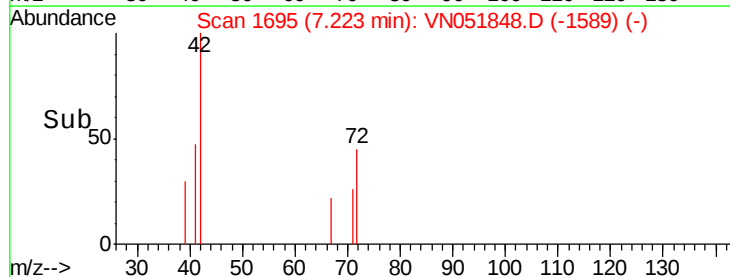
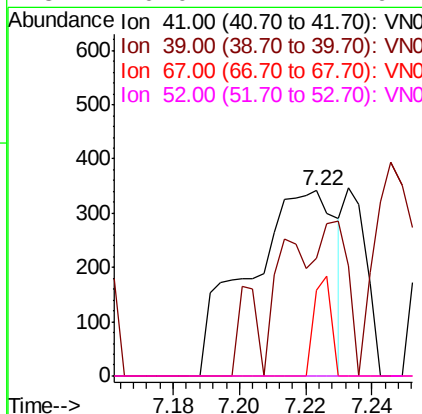
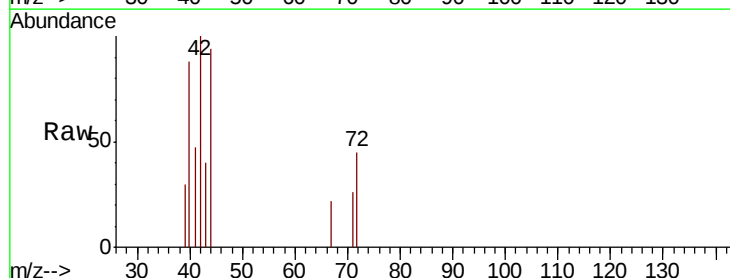
Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#01

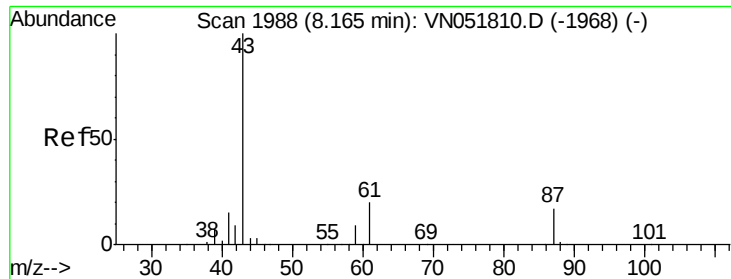
Tot Ion:117 Resp: 78626
Ion Ratio Lower Upper
117 100
119 5.1 76.3 114.5#
121 0.0 24.6 36.8#



#41
Methacrylonitrile
Concen: 0.249 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.04 min
Lab File: VN051848.D
Acq: 12 Oct 2018 22:24

Tgt Ion: 41 Resp: 623
Ion Ratio Lower Upper
41 100
39 30.5 45.4 68.0#
67 10.6 70.6 106.0#
52 0.0 27.1 40.7#





#43

Isopropyl Acetate

Concen: 22.773 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#01

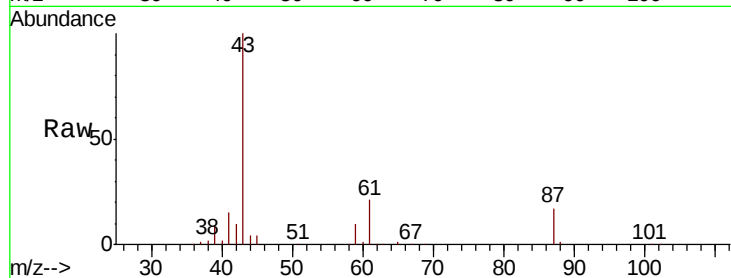
Tot Ion: 43 Resp: 239079

Ion Ratio Lower Upper

43 100

61 21.1 17.5 26.3

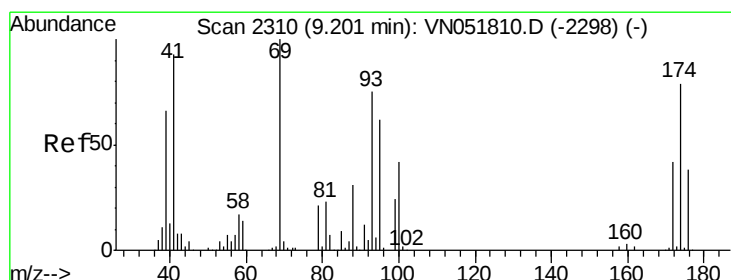
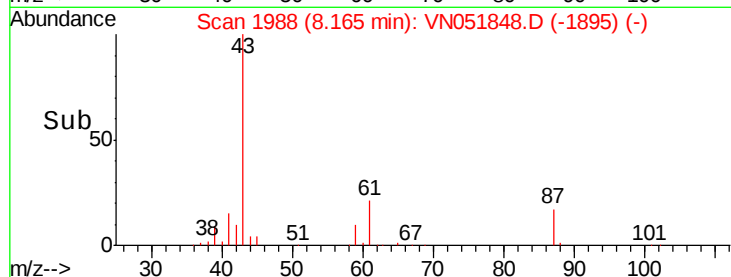
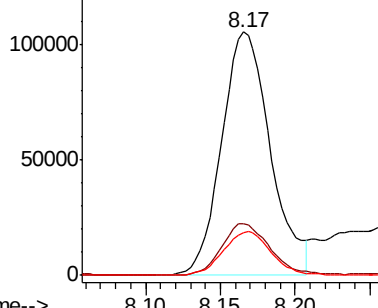
87 17.5 11.3 16.9#



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: 1.086 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

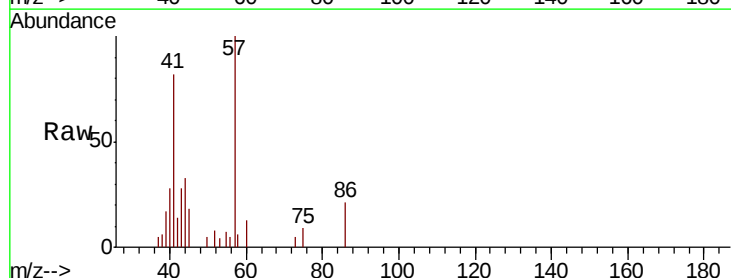
Tgt Ion: 41 Resp: 5025

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

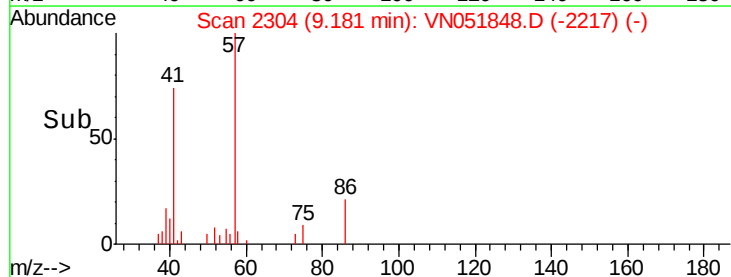
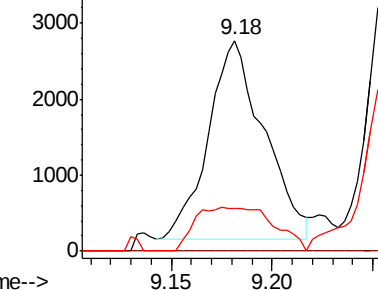
39 31.2 42.2 63.2#

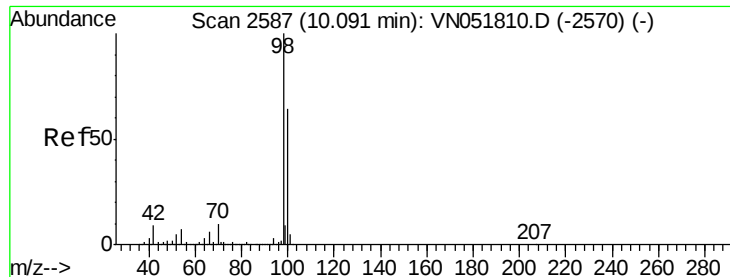


Abundance Ion 41.00 (40.70 to 41.70): VN0

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: VN051848.D

Acq: 12 Oct 2018 22:24

Instrument :

MSVOA_N

ClientSampleId :

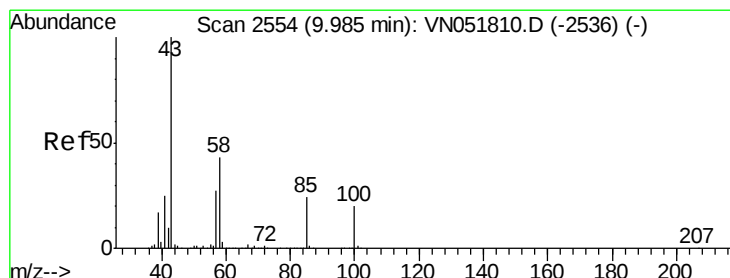
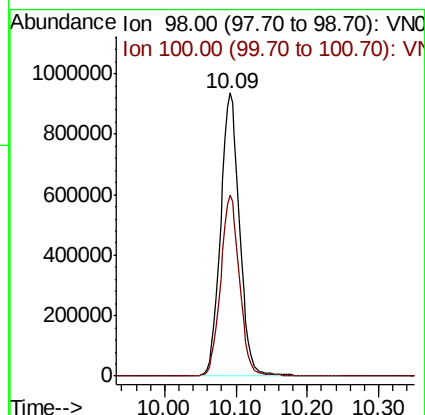
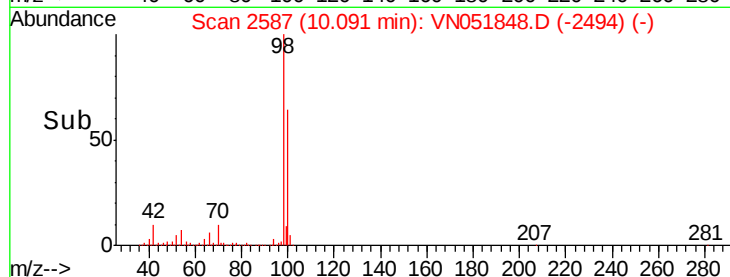
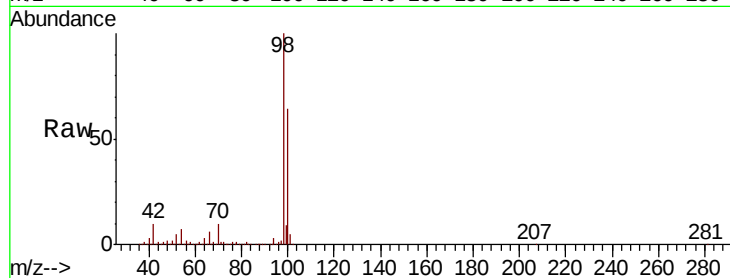
PB113779ZHE#01

Tot Ion: 98 Resp: 1721600

Ion Ratio Lower Upper

98 100

100 63.7 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.267 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN051848.D

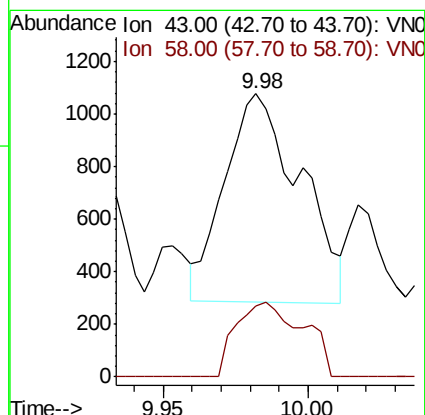
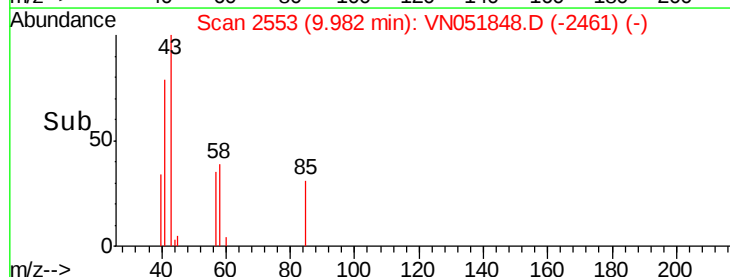
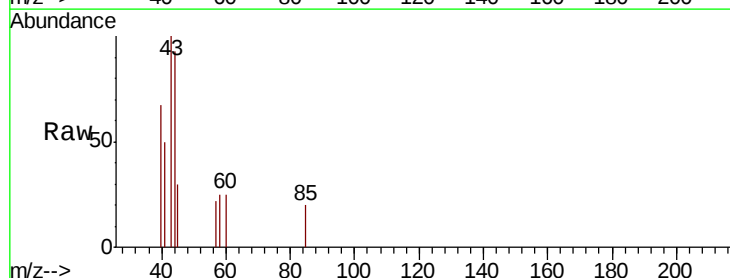
Acq: 12 Oct 2018 22:24

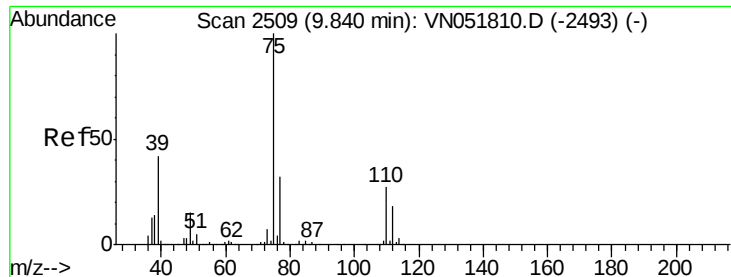
Tgt Ion: 43 Resp: 1438

Ion Ratio Lower Upper

43 100

58 31.6 32.4 48.6#





#54

cis-1,3-Dichloropropene

Concen: 0.227 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#01

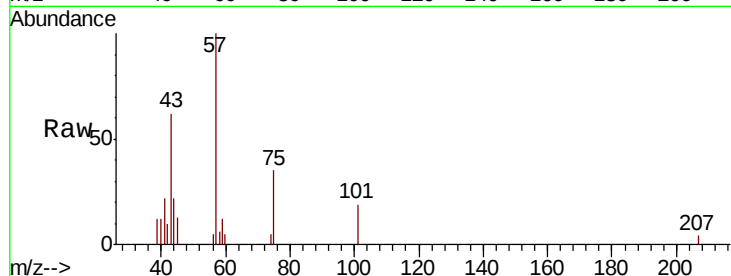
Tot Ion: 75 Resp: 2626

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

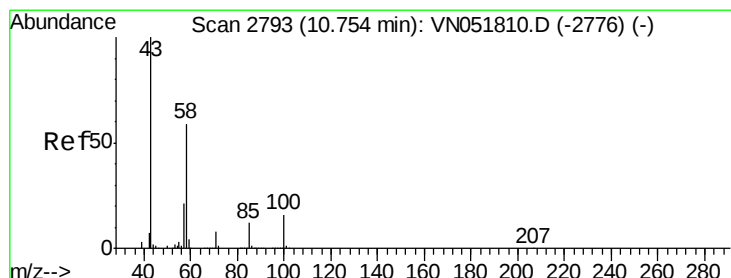
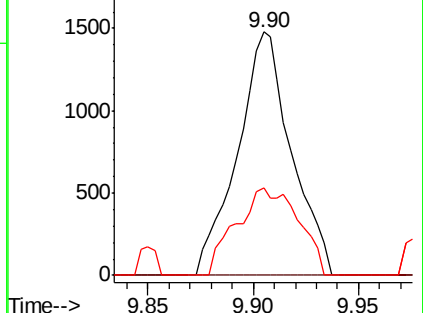
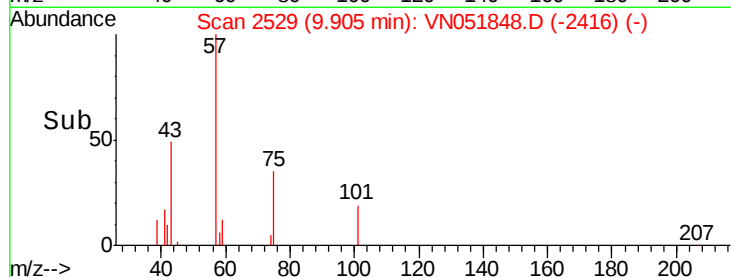
39 36.1 33.0 49.4



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 3.800 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN051848.D

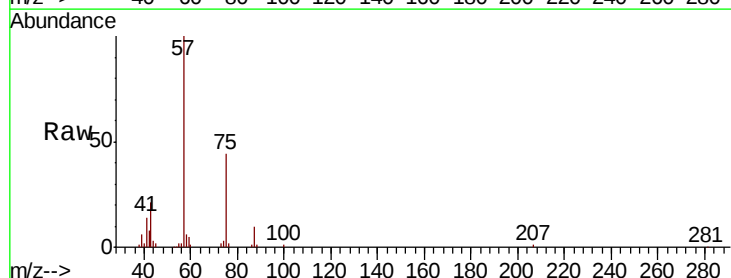
Acq: 12 Oct 2018 22:24

Tgt Ion: 43 Resp: 14386

Ion Ratio Lower Upper

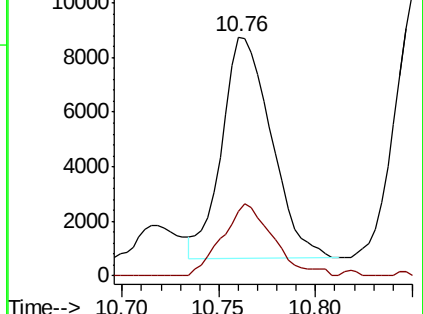
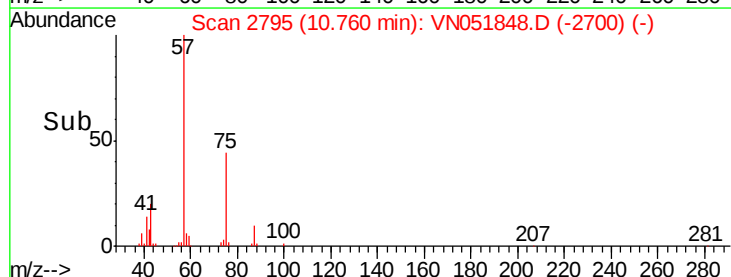
43 100

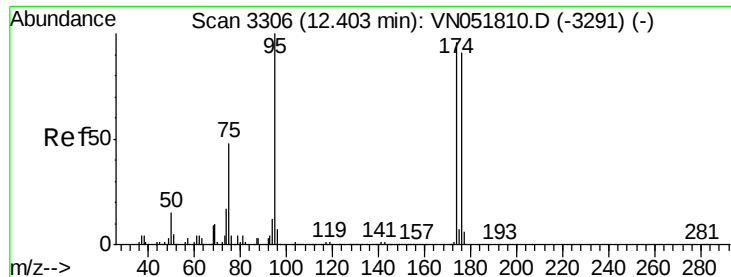
58 33.4 28.3 85.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#01

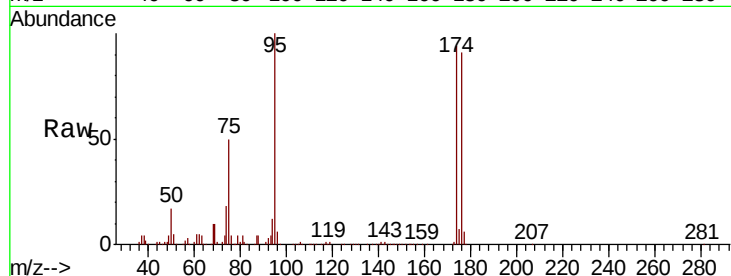
Tot Ion: 95 Resp: 506771

Ion Ratio Lower Upper

95 100

174 94.0 0.0 183.0

176 91.5 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VN051810.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051810.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051810.D (-3291) (-)

12.40

300000

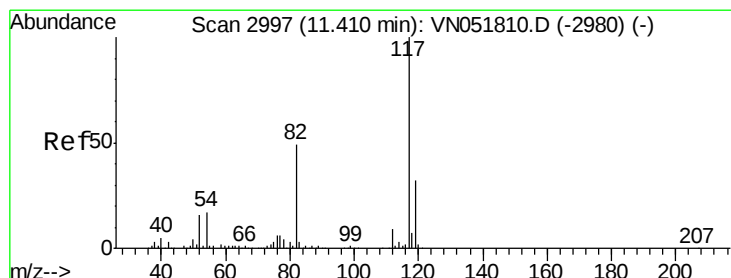
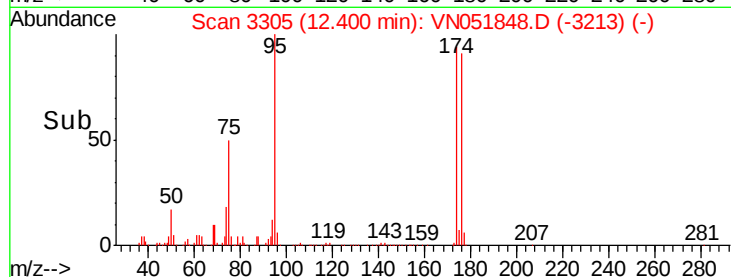
200000

100000

0

12.30 12.40 12.50

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

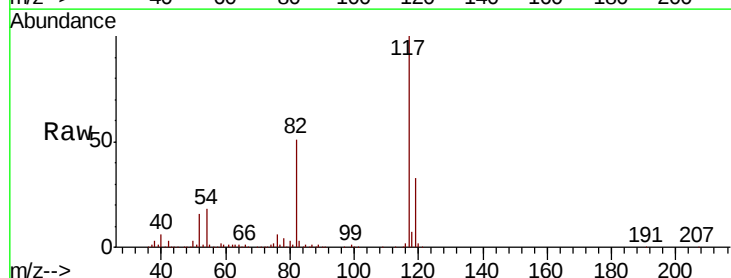
Tgt Ion: 117 Resp: 1101414

Ion Ratio Lower Upper

117 100

82 50.6 42.6 64.0

119 32.7 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN051810.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN051810.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN051810.D (-2980) (-)

11.41

800000

600000

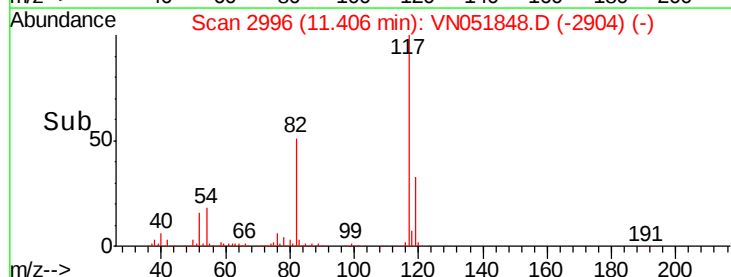
400000

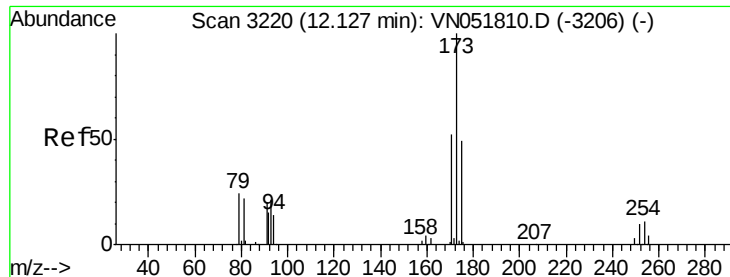
200000

0

11.30 11.40 11.50

Time-->





#71

Bromoform

Concen: 4.146 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#01

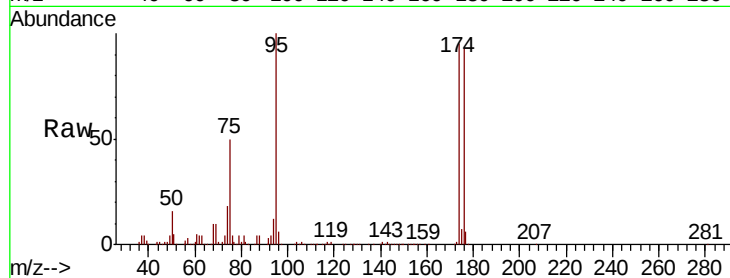
Tot Ion:173 Resp: 4080

Ion Ratio Lower Upper

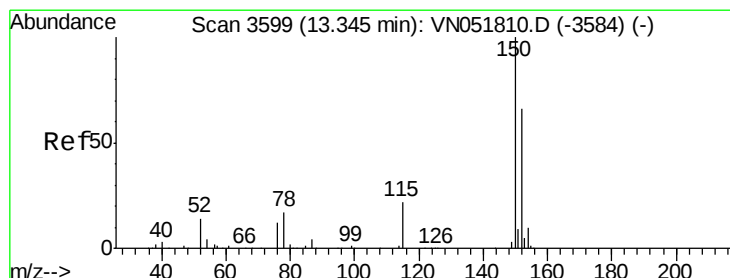
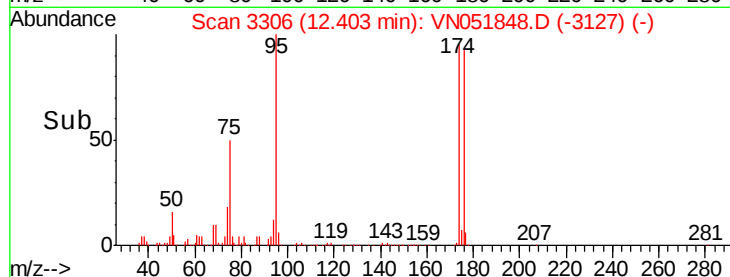
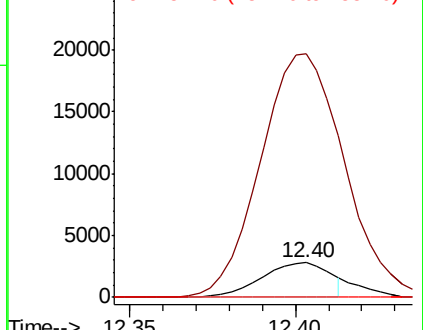
173 100

175 722.7 24.4 73.4#

254 0.0 0.1 0.1#



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: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

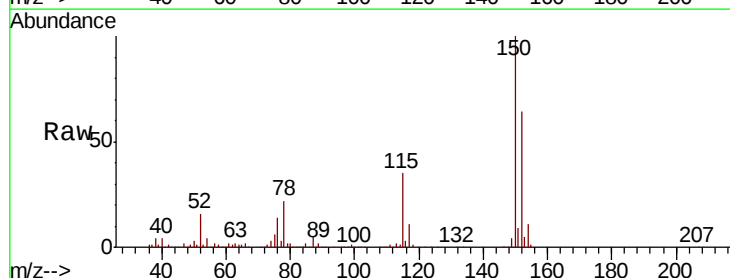
Tgt Ion:152 Resp: 402456

Ion Ratio Lower Upper

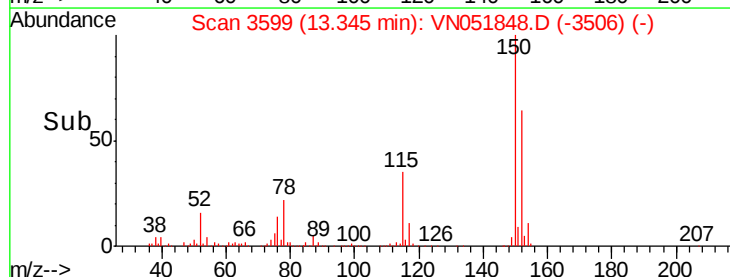
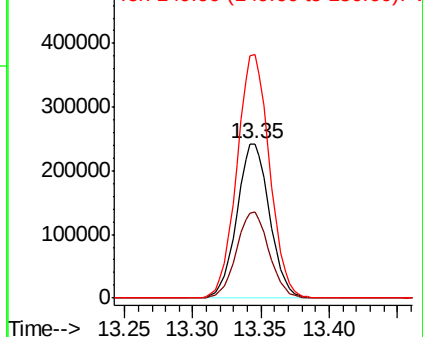
152 100

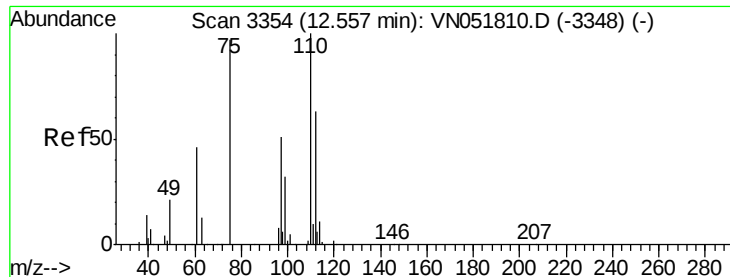
115 55.5 27.8 83.4

150 157.7 0.0 351.4



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





#76

1,2,3-Trichloropropane

Concen: 50.518 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.16 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

Instrument :

MSVOA_N

ClientSampleId :

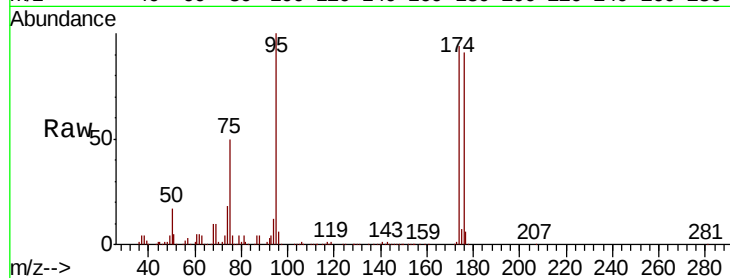
PB113779ZHE#01

Tot Ion: 75 Resp: 250823

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

150000

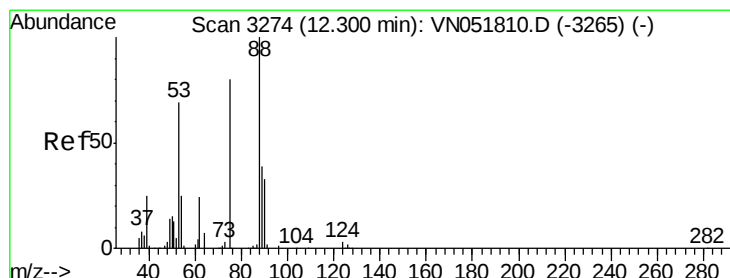
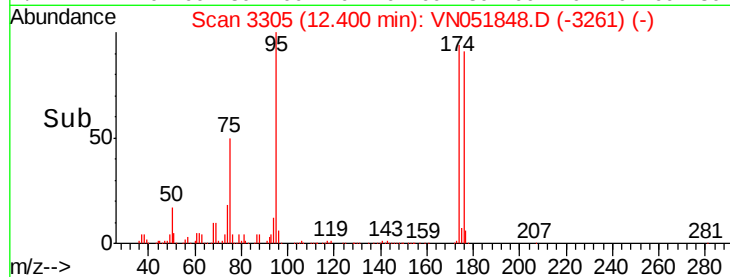
100000

50000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 143.517 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

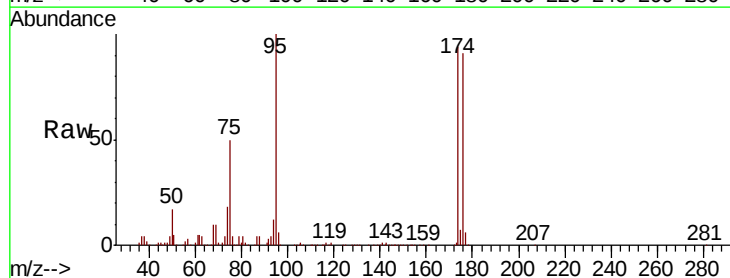
Tgt Ion: 75 Resp: 250823

Ion Ratio Lower Upper

75 100

53 0.0 68.9 103.3#

89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

200000

150000

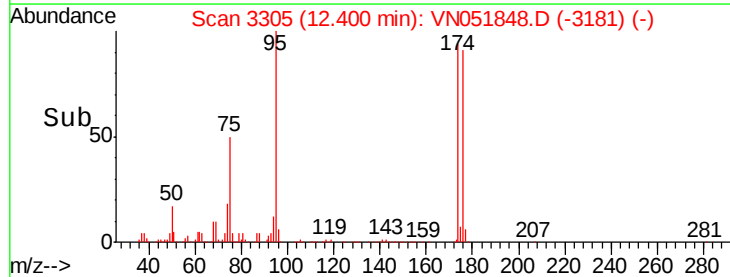
100000

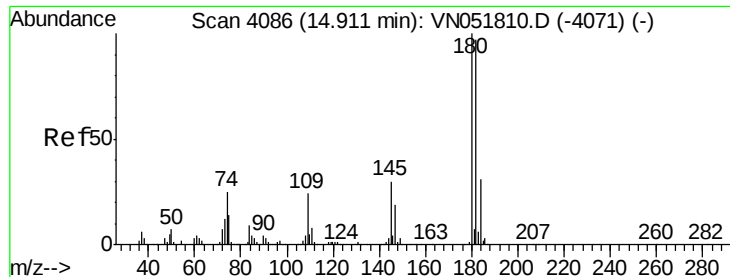
50000

0

12.35 12.40 12.45

Time-->





#93

1,2,4-Trichlorobenzene

Concen: 3.687 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.00 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#01

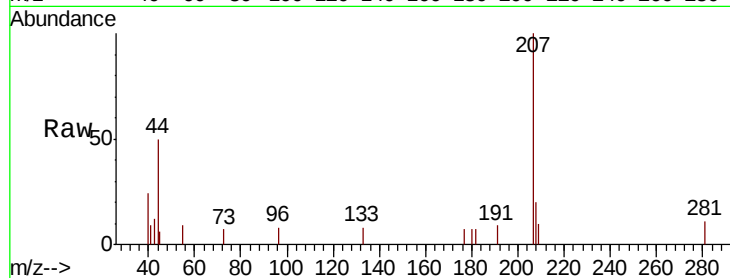
Tot Ion:180 Resp: 237

Ion Ratio Lower Upper

180 100

182 89.9 48.2 144.6

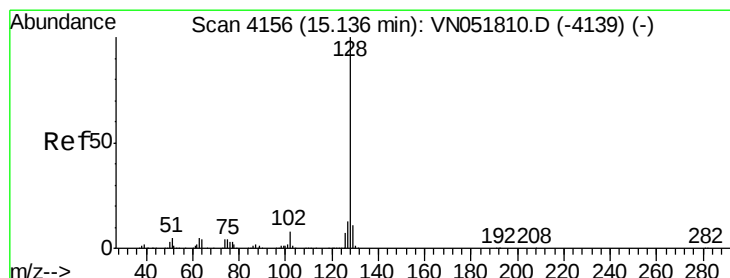
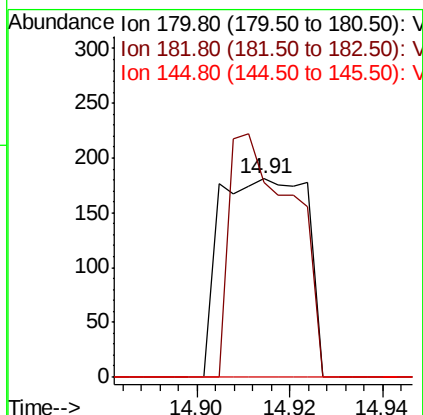
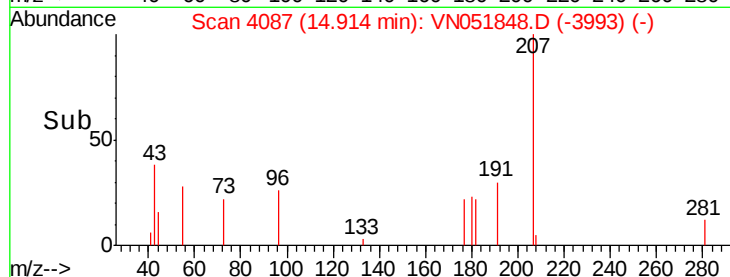
145 0.0 14.1 42.2#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 4.441 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051848.D

Acq: 12 Oct 2018 22:24

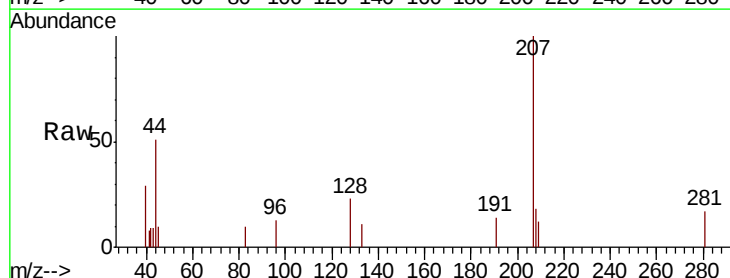
Tgt Ion:128 Resp: 732

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

