

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080218\
 Data File : VN050264.D
 Acq On : 2 Aug 2018 15:19
 Operator : MD\SY
 Sample : PB111674ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#02

Quant Time: Aug 03 01:13:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	648023	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1069712	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	899450	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	318709	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	461700	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
35) Dibromofluoromethane	7.59	113	407467	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	
50) Toluene-d8	10.09	98	1450617	45.18	ug/l	0.00
Spiked Amount			Recovery	=	90.36%	
62) 4-Bromofluorobenzene	12.40	95	392800	37.15	ug/l	0.00
Spiked Amount			Recovery	=	74.30%	

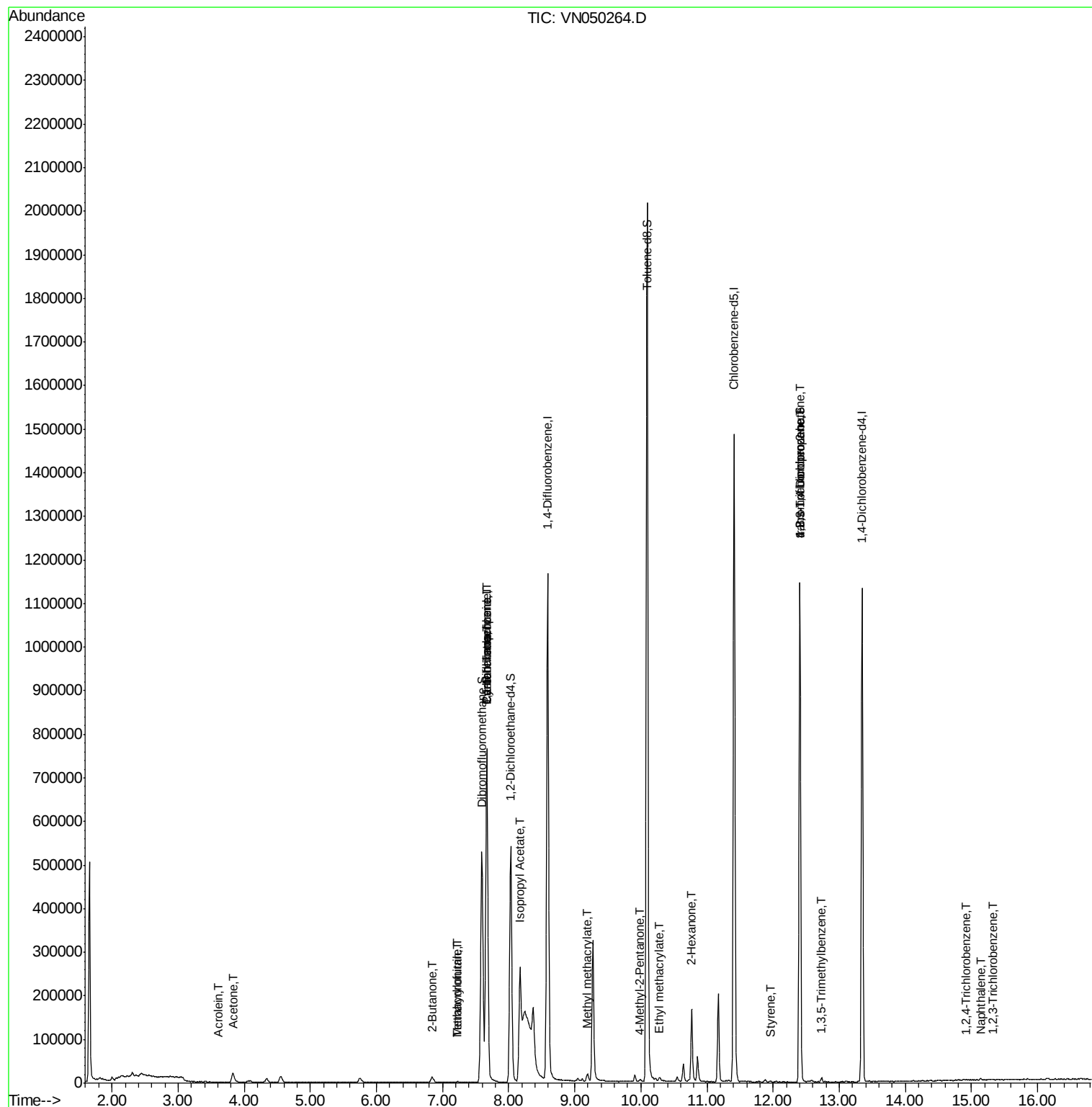
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	1187	Below Cal		85
13) Acrolein	3.61	56	131	0.25	ug/l #	15
16) Acetone	3.83	43	37367	13.44	ug/l	99
25) 2-Butanone	6.85	43	6975	2.02	ug/l	94
29) Tetrahydrofuran	7.22	42	841	0.38	ug/l #	51
31) Cyclohexane	7.67	56	12232	0.92	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45815	3.80	ug/l #	49
38) Carbon Tetrachloride	7.67	117	59519	4.65	ug/l #	16
41) Methacrylonitrile	7.22	41	926	2.95	ug/l #	21
43) Isopropyl Acetate	8.17	43	350008	21.45	ug/l	94
48) Methyl methacrylate	9.19	41	9291	1.28	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	3421	0.41	ug/l	98
56) Ethyl methacrylate	10.28	69	224	2.05	ug/l #	1
59) 2-Hexanone	10.77	43	22901	8.87	ug/l #	57
70) Styrene	11.97	104	300	0.94	ug/l #	52
75) 1,1,2,2-Tetrachloroethane	12.40	83	59	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	190426	32.15	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	4168	0.21	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	190426	101.98	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	324	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	199	3.12	ug/l #	84
95) Naphthalene	15.14	128	3296	4.62	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.32	180	423	2.27	ug/l #	62

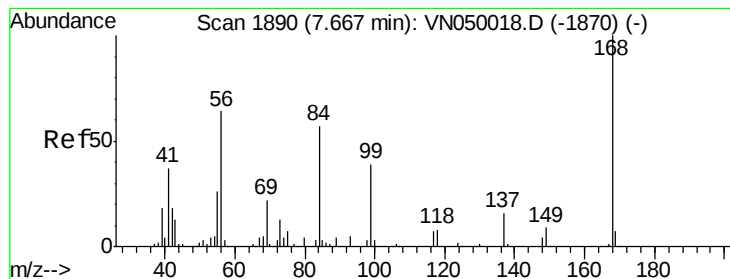
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050264.D

Acq: 2 Aug 2018 15:19

Instrument :

MSVOA_N

ClientSampleId :

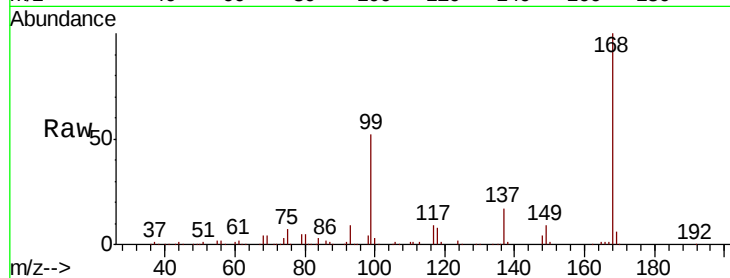
PB111674ZHE#02

Tot Ion:168 Resp: 648023

Ion Ratio Lower Upper

168 100

99 51.6 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

250000

200000

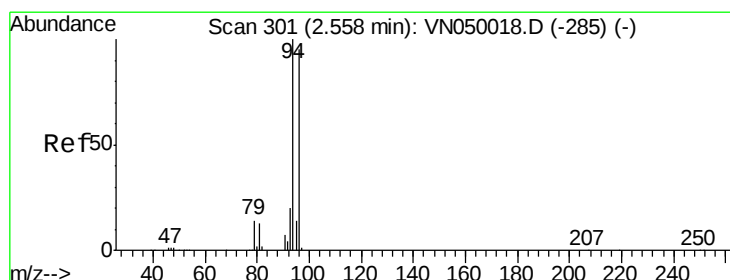
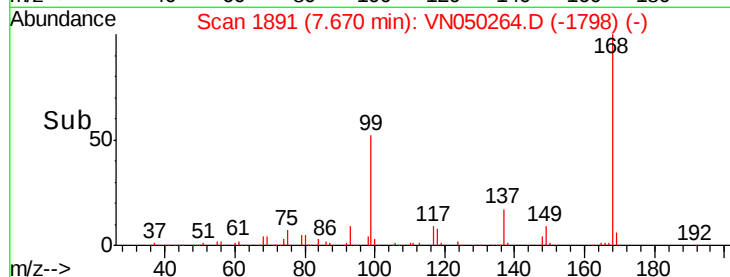
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 302

Delta R.T. 0.01 min

Lab File: VN050264.D

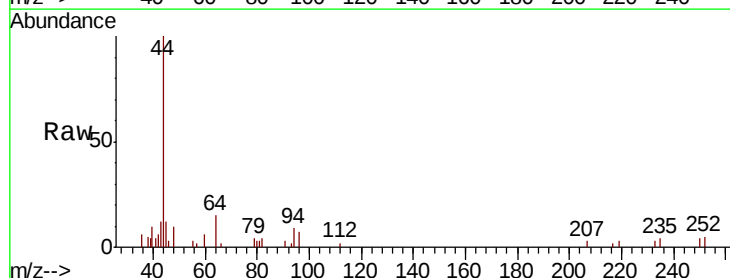
Acq: 2 Aug 2018 15:19

Tgt Ion: 94 Resp: 1187

Ion Ratio Lower Upper

94 100

96 78.8 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

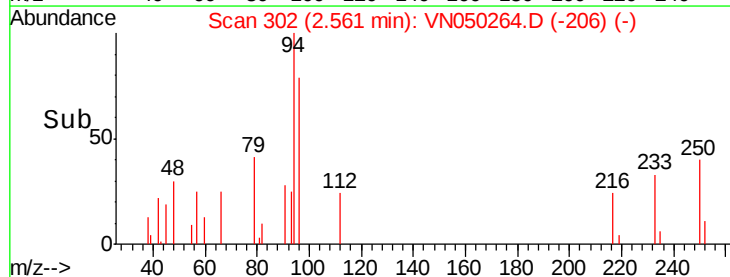
600

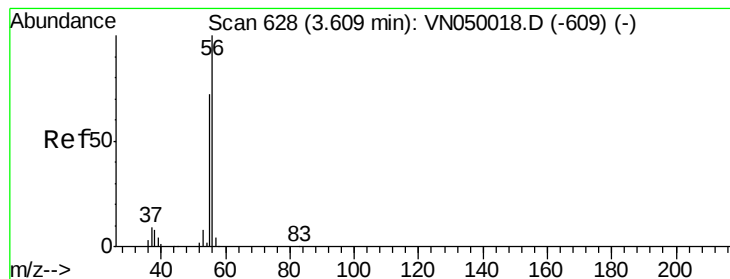
400

200

0

Time-->





#13

Acrolein

Concen: 0.25 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN050264.D

Acq: 2 Aug 2018 15:19

Instrument :

MSVOA_N

ClientSampleId :

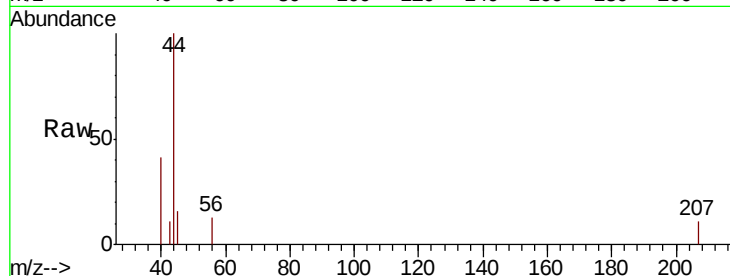
PB111674ZHE#02

Tot Ion: 56 Resp: 131

Ion Ratio Lower Upper

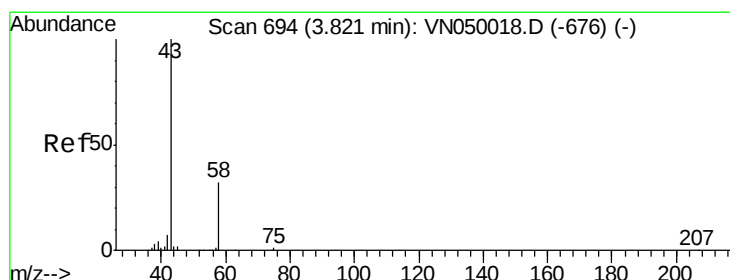
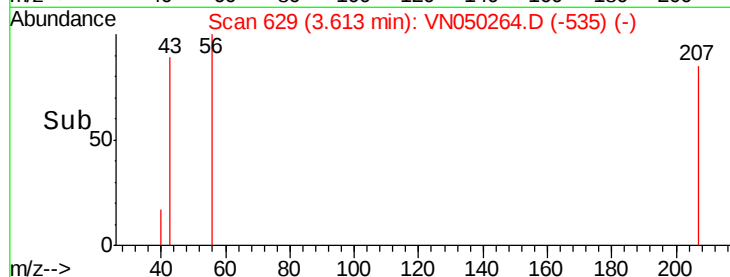
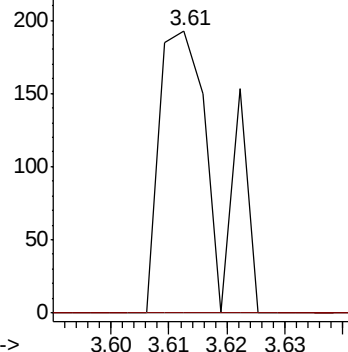
56 100

55 0.0 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 13.44 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050264.D

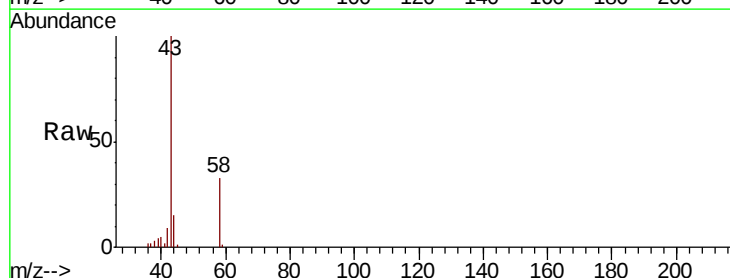
Acq: 2 Aug 2018 15:19

Tgt Ion: 43 Resp: 37367

Ion Ratio Lower Upper

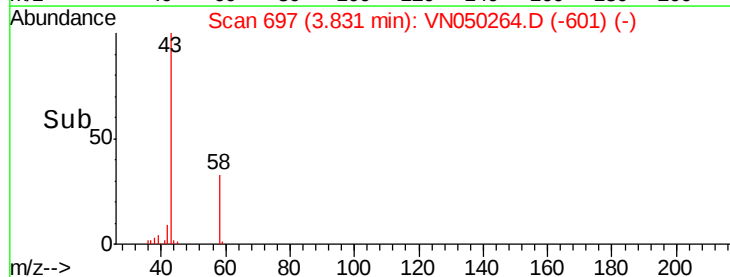
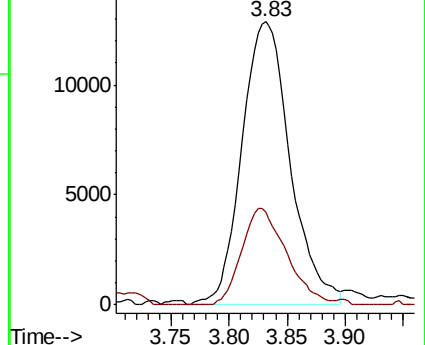
43 100

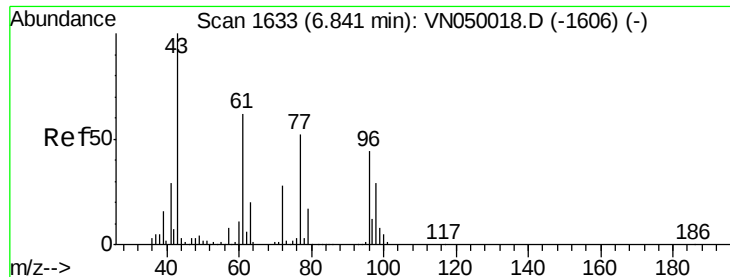
58 32.7 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

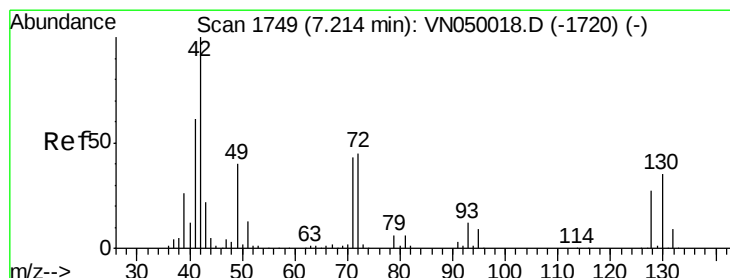
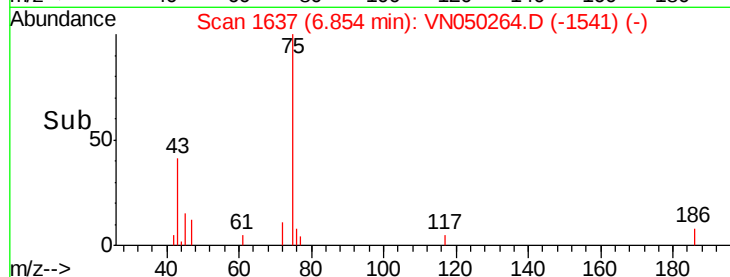
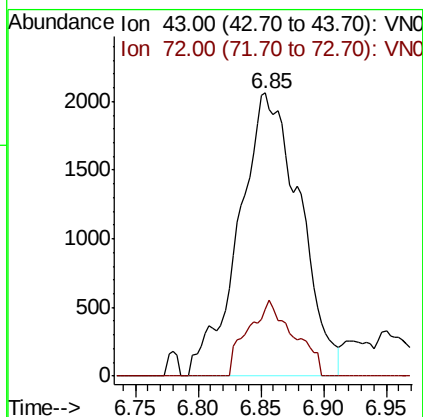
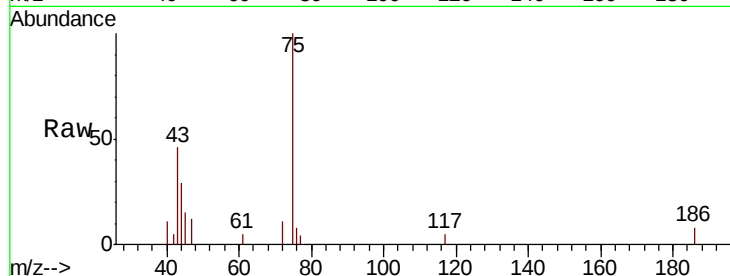




#25
2-Butanone
Concen: 2.02 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050264.D
Acq: 2 Aug 2018 15:19

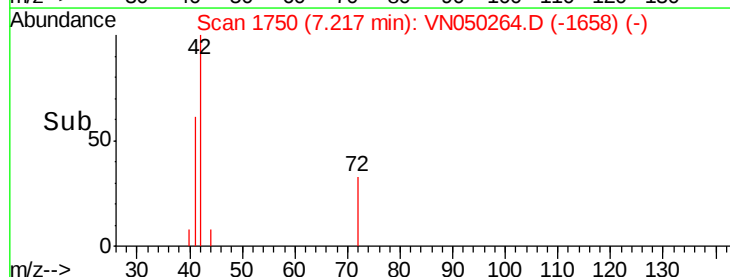
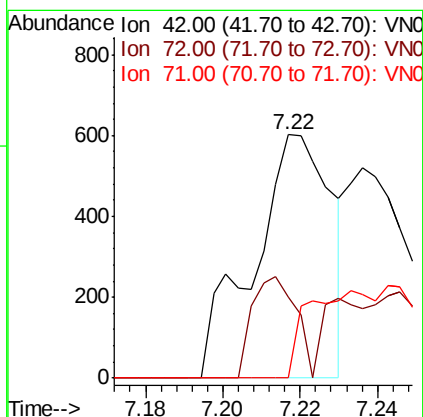
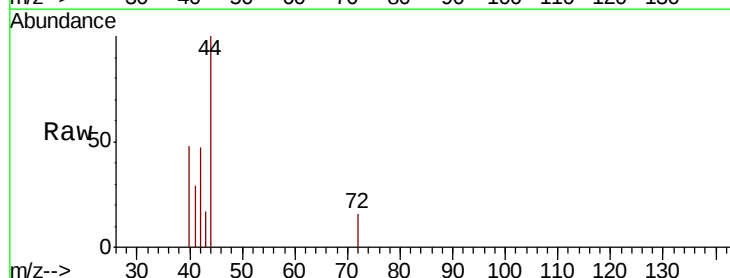
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#02

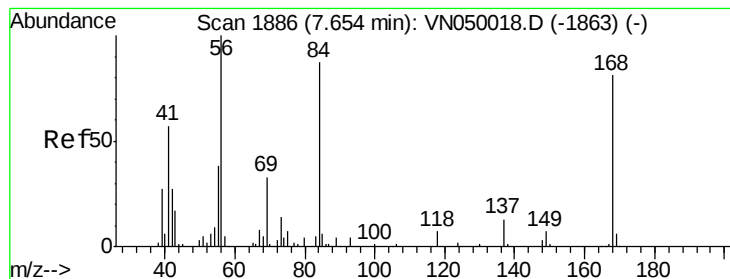
Tot Ion: 43 Resp: 6975
Ion Ratio Lower Upper
43 100
72 23.6 21.5 32.3



#29
Tetrahydrofuran
Concen: 0.38 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN050264.D
Acq: 2 Aug 2018 15:19

Tgt Ion: 42 Resp: 841
Ion Ratio Lower Upper
42 100
72 23.4 35.9 53.9#
71 0.0 33.7 50.5#





#31

Cyclohexane

Concen: 0.92 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.01 min

Lab File: VN050264.D

Acq: 2 Aug 2018 15:19

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#02

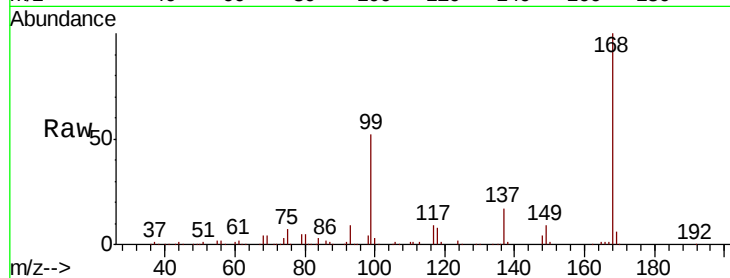
Tot Ion: 56 Resp: 12232

Ion Ratio Lower Upper

56 100

69 191.2 26.2 39.4#

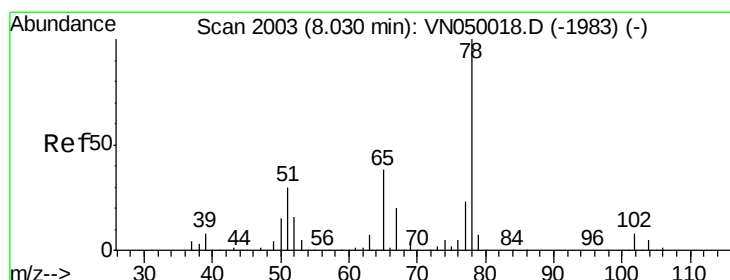
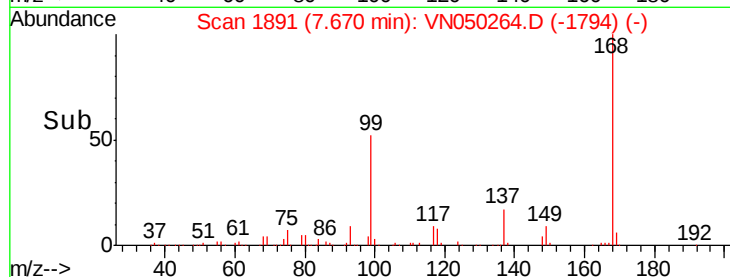
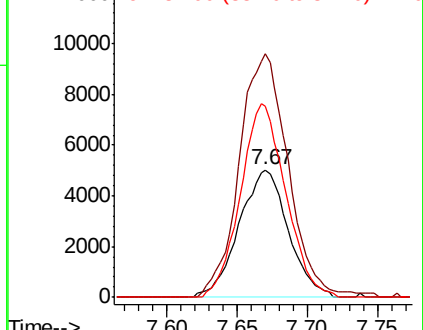
84 150.5 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 51.07 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050264.D

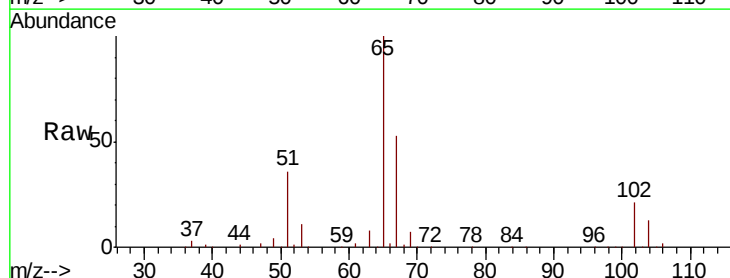
Acq: 2 Aug 2018 15:19

Tgt Ion: 65 Resp: 461700

Ion Ratio Lower Upper

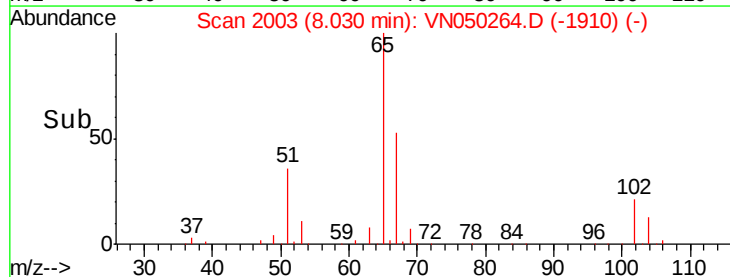
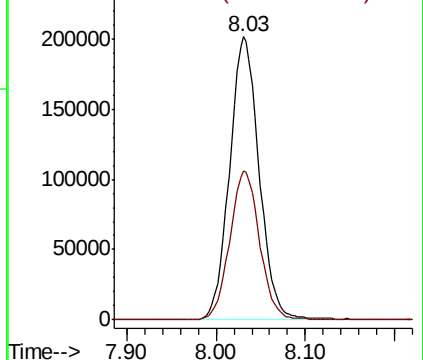
65 100

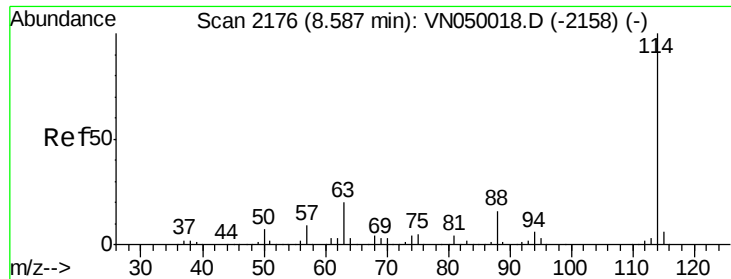
67 53.2 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

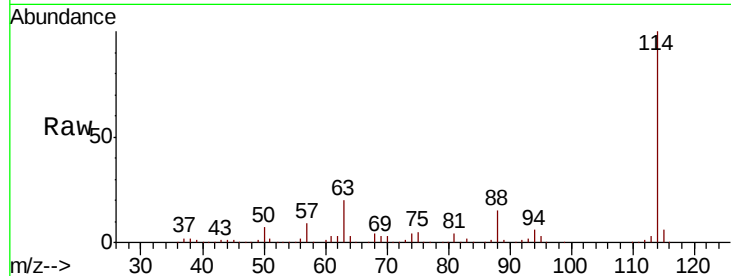




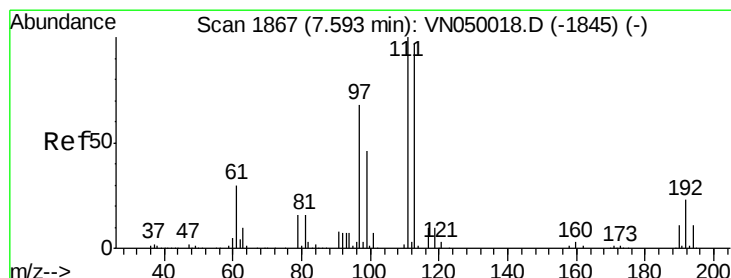
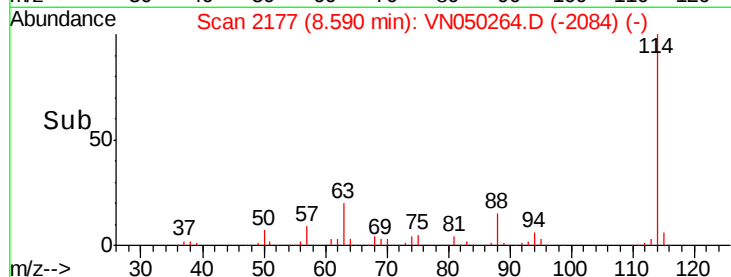
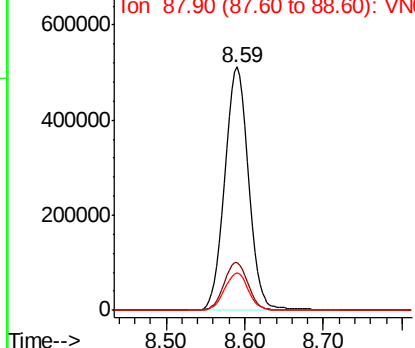
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050264.D
 Acq: 2 Aug 2018 15:19

Instrument :
 MSVOA_N
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 PB111674ZHE#02

Tot Ion:114 Resp: 1069712
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.0
 88 15.4 0.0 31.2

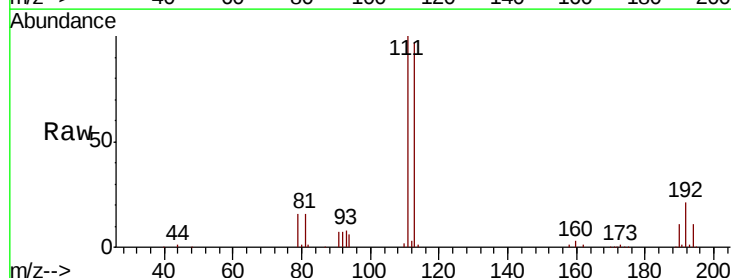


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

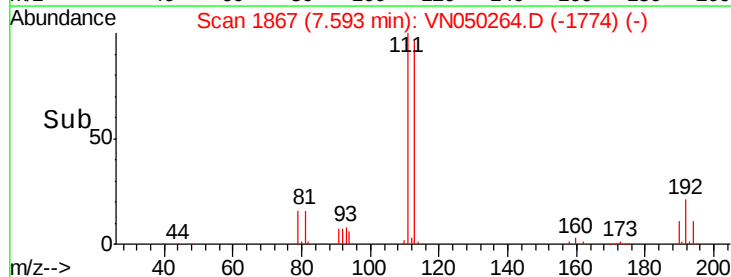
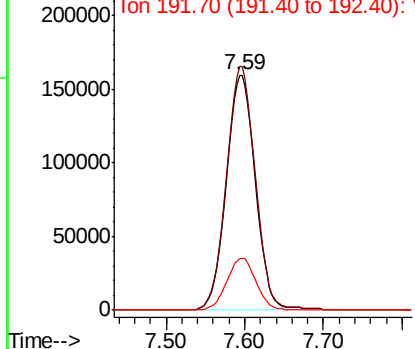


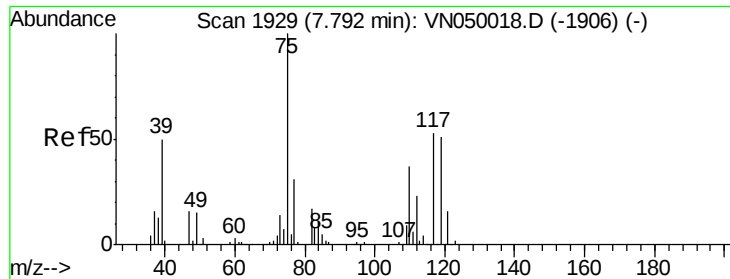
#35
 Dibromofluoromethane
 Concen: 46.65 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050264.D
 Acq: 2 Aug 2018 15:19

Tgt Ion:113 Resp: 407467
 Ion Ratio Lower Upper
 113 100
 111 102.9 80.7 121.1
 192 22.2 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

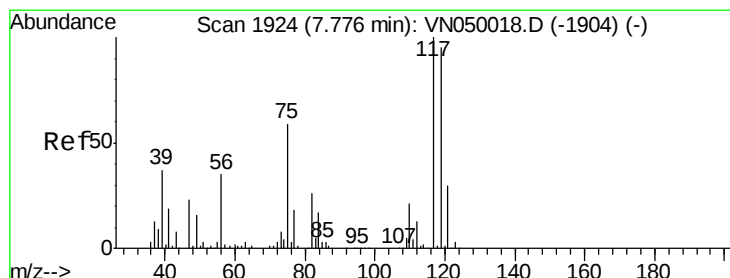
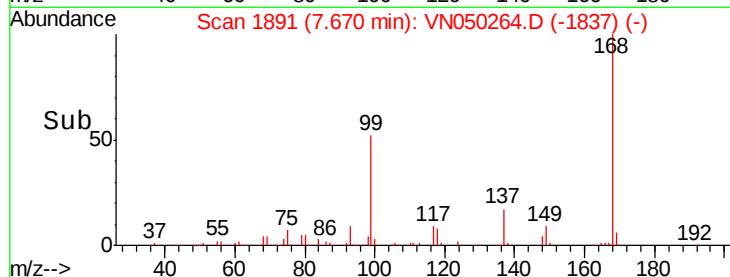
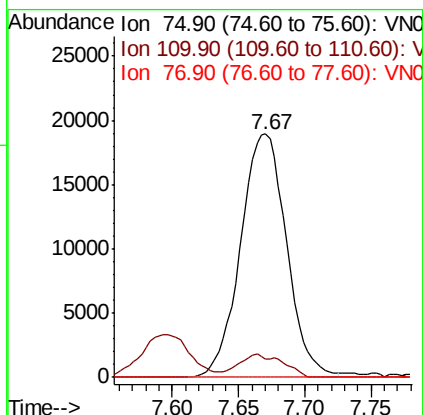
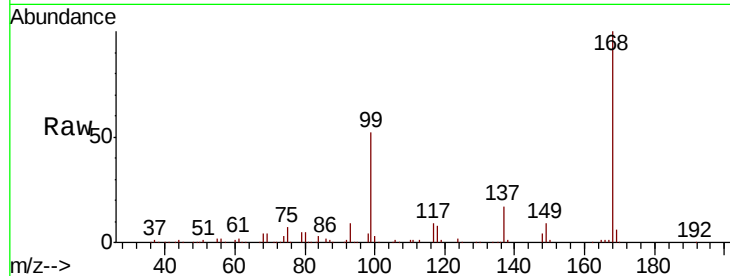




#36
 1,1-Dichloropropene
 Concen: 3.80 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050264.D
 Acq: 2 Aug 2018 15:19

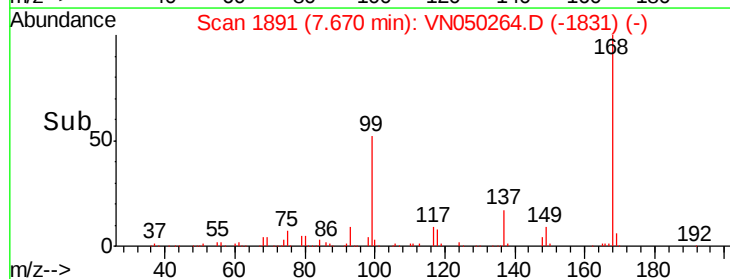
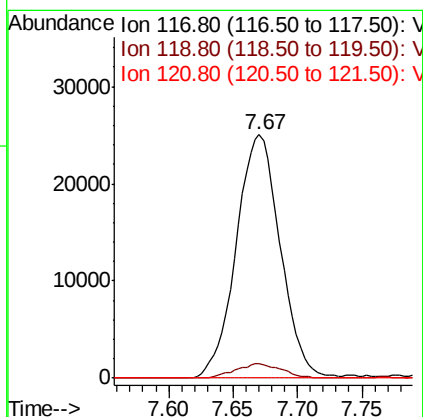
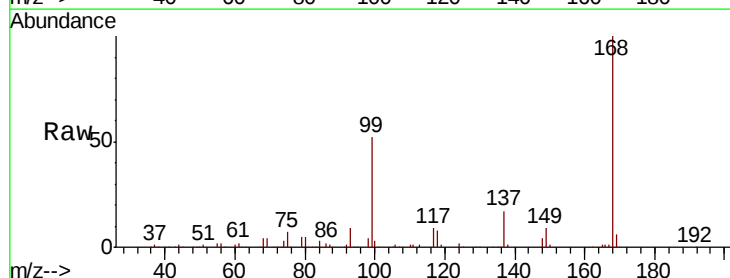
Instrument :
 MSVOA_N
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 PB111674ZHE#02

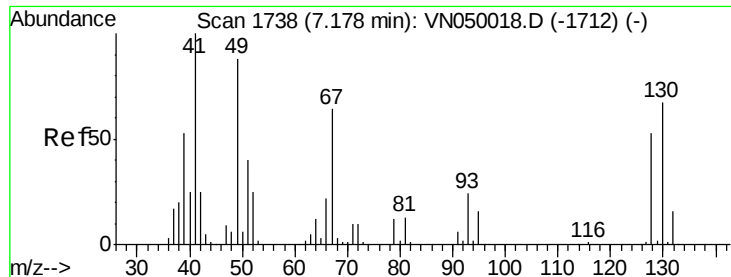
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 4.65 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050264.D
 Acq: 2 Aug 2018 15:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	77.4	116.0#
121	0.0	23.9	35.9#

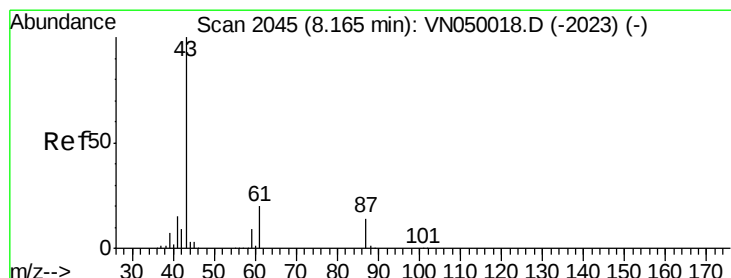
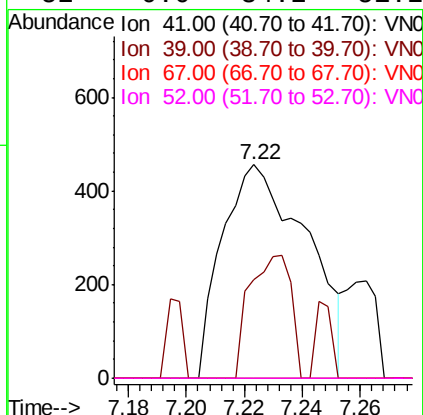
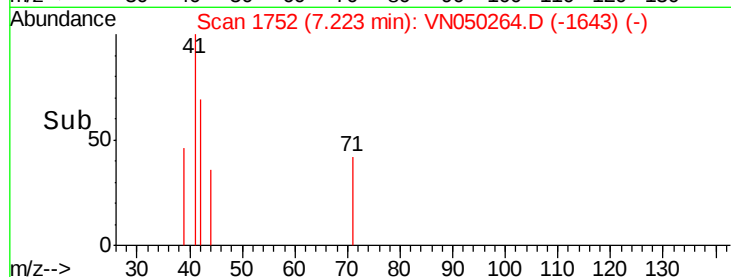
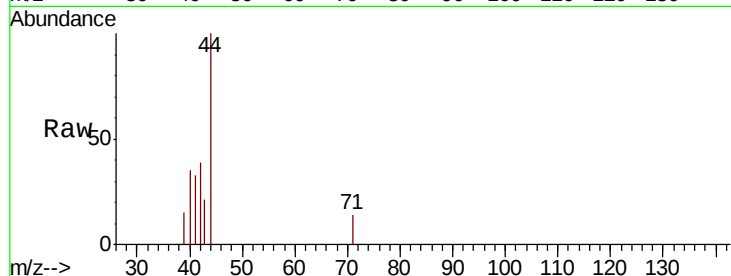




#41
Methacrylonitrile
Concen: 2.95 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.05 min
Lab File: VN050264.D
Acq: 2 Aug 2018 15:19

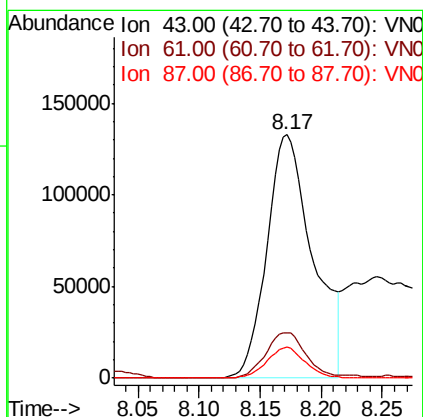
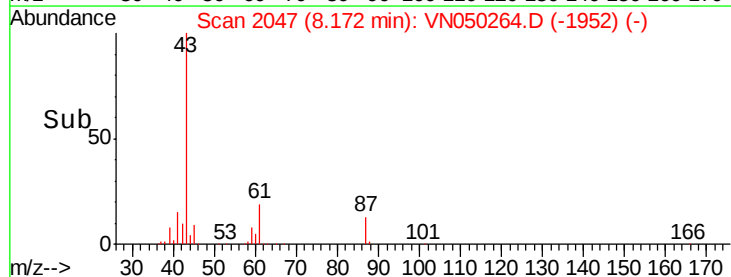
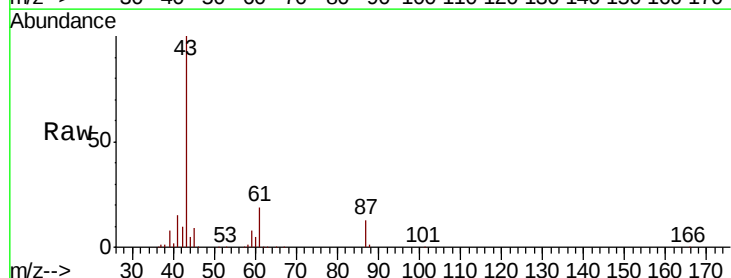
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#02

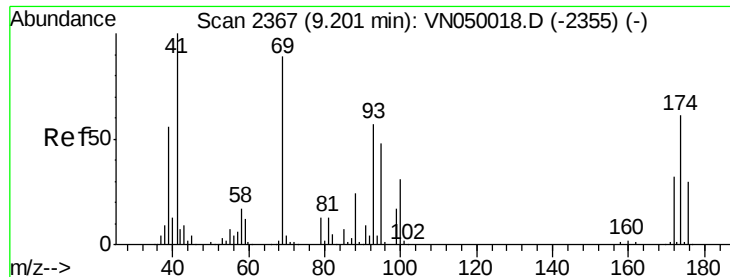
Tot Ion: 41 Resp: 926
Ion Ratio Lower Upper
41 100
39 28.1 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 21.45 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.00 min
Lab File: VN050264.D
Acq: 2 Aug 2018 15:19

Tgt Ion: 43 Resp: 350008
Ion Ratio Lower Upper
43 100
61 16.8 15.8 23.6
87 10.8 10.3 15.5

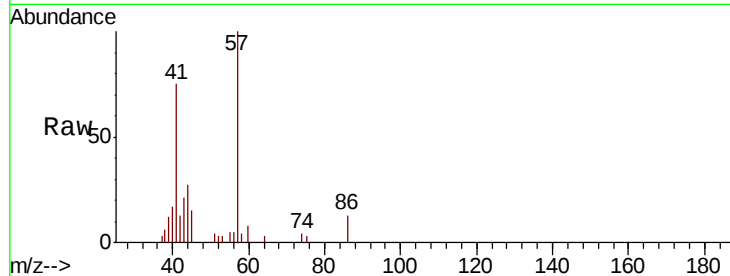




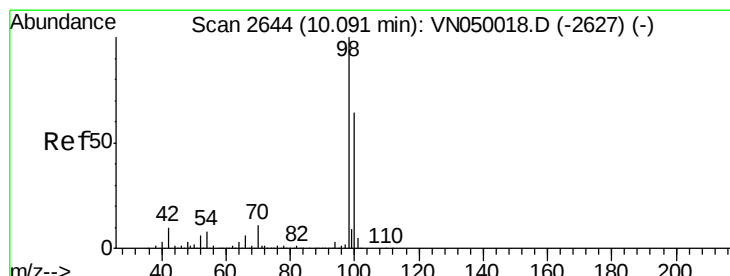
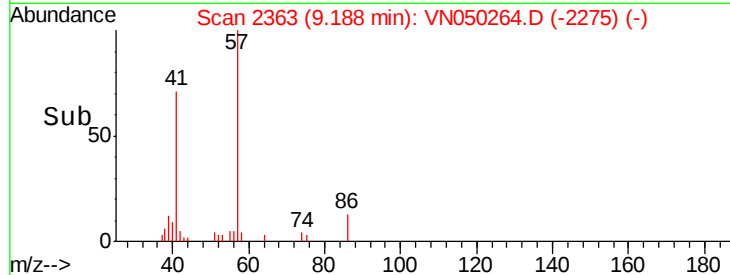
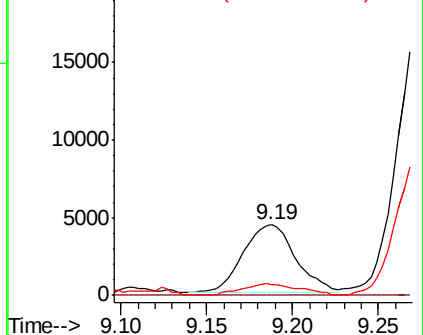
#48
Methyl methacrylate
Concen: 1.28 ug/l
RT: 9.19 min Scan# 2363
Delta R.T. -0.02 min
Lab File: VN050264.D
Acq: 2 Aug 2018 15:19

Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#02

Tot Ion: 41 Resp: 9291
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 18.8 43.9 65.9#

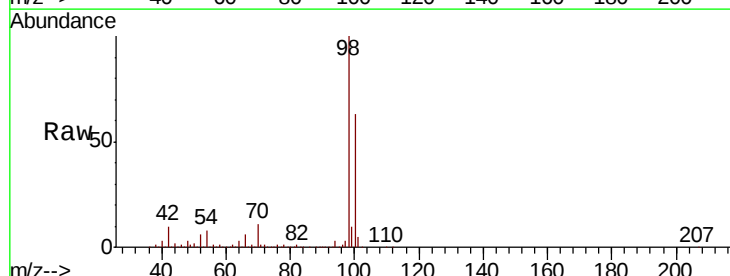


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

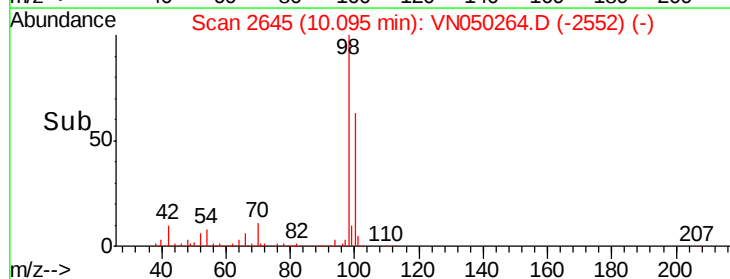
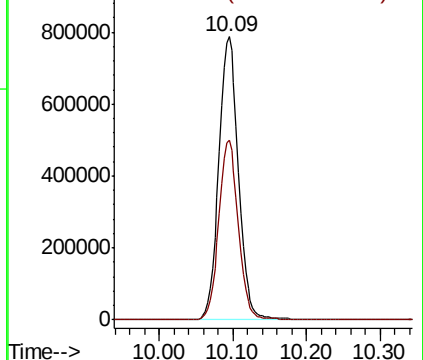


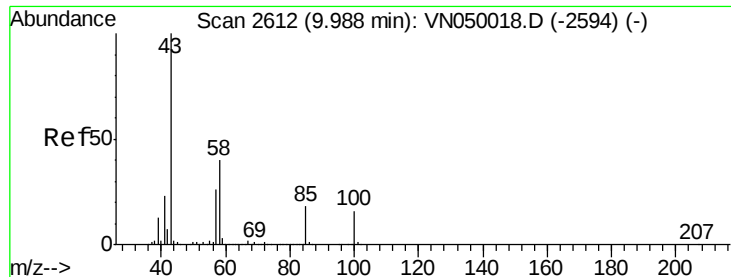
#50
Toluene-d8
Concen: 45.18 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050264.D
Acq: 2 Aug 2018 15:19

Tgt Ion: 98 Resp: 1450617
Ion Ratio Lower Upper
98 100
100 63.1 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

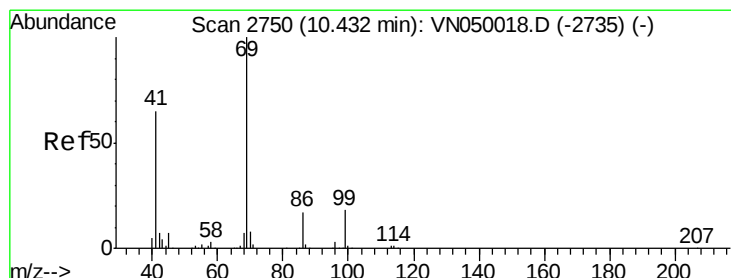
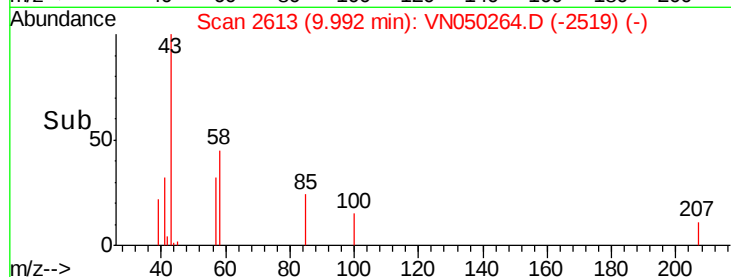
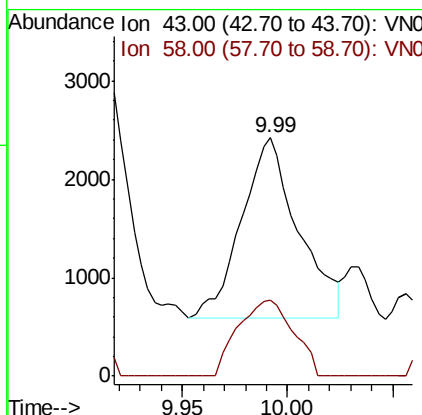
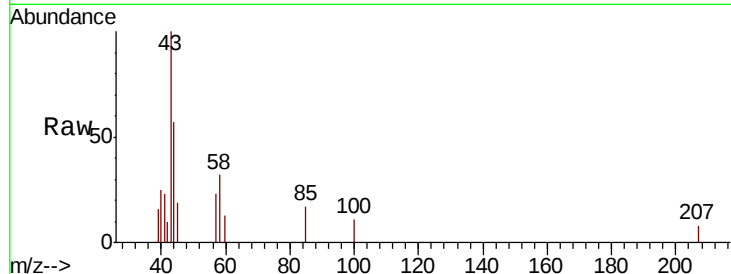




#51
4-Methyl-2-Pentanone
Concen: 0.41 ug/l
RT: 9.99 min Scan# 2613
Delta R.T. 0.00 min
Lab File: VN050264.D
Acq: 2 Aug 2018 15:19

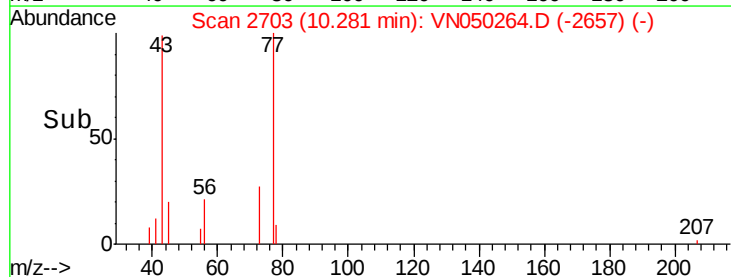
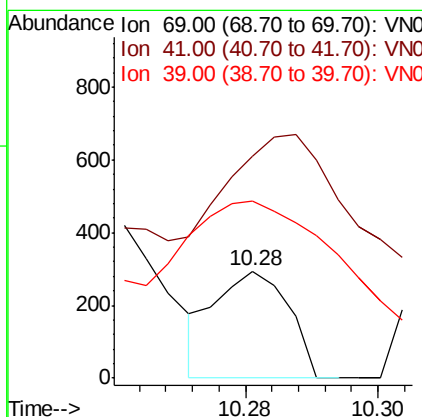
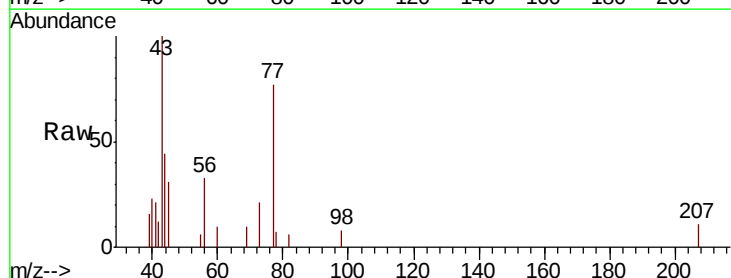
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#02

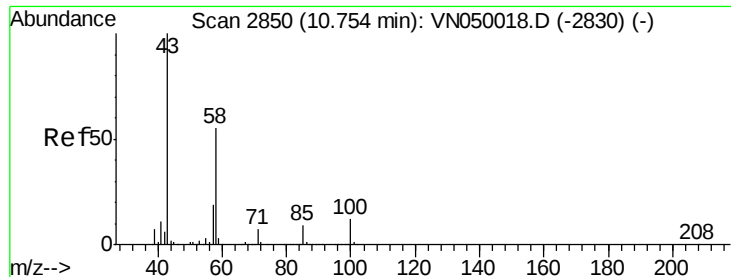
Tot Ion: 43 Resp: 3421
Ion Ratio Lower Upper
43 100
58 41.1 31.9 47.9



#56
Ethyl methacrylate
Concen: 2.05 ug/l
RT: 10.28 min Scan# 2703
Delta R.T. -0.15 min
Lab File: VN050264.D
Acq: 2 Aug 2018 15:19

Tgt Ion: 69 Resp: 224
Ion Ratio Lower Upper
69 100
41 537.5 51.0 76.4#
39 377.7 26.6 40.0#





#59

2-Hexanone

Concen: 8.87 ug/l

RT: 10.77 min Scan# 2855

Delta R.T. 0.02 min

Lab File: VN050264.D

Acq: 2 Aug 2018 15:19

Instrument :

MSVOA_N

ClientSampleId :

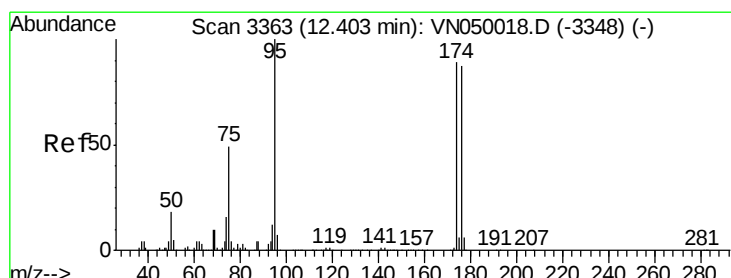
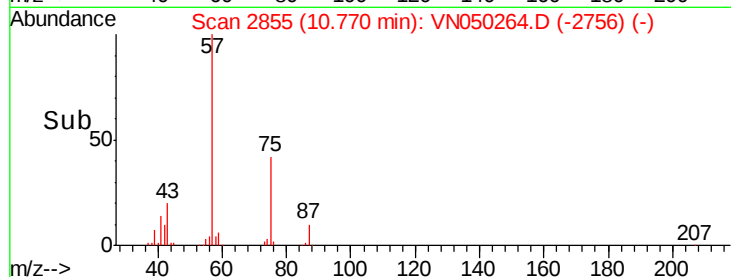
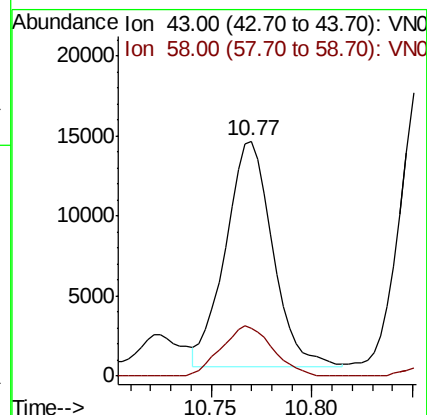
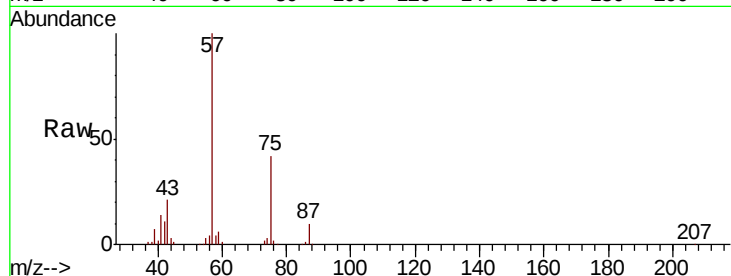
PB111674ZHE#02

Tot Ion: 43 Resp: 22901

Ion Ratio Lower Upper

43 100

58 24.2 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 37.15 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050264.D

Acq: 2 Aug 2018 15:19

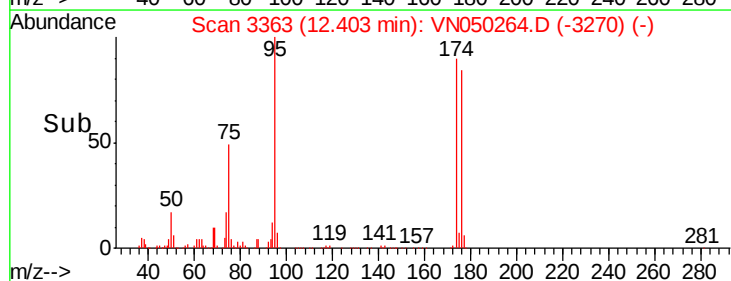
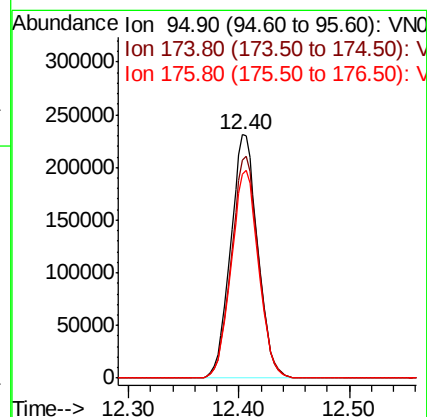
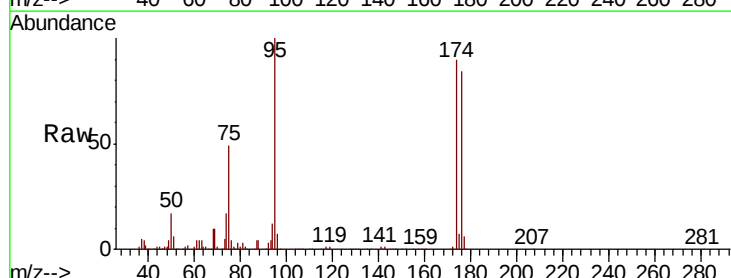
Tgt Ion: 95 Resp: 392800

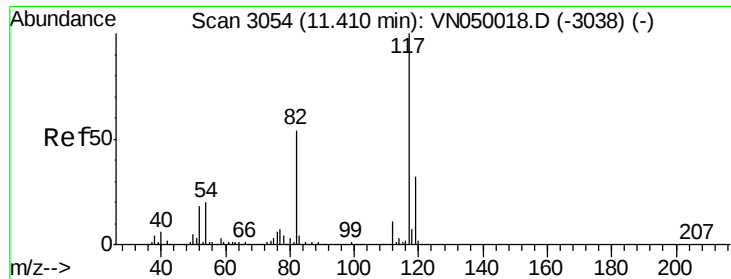
Ion Ratio Lower Upper

95 100

174 91.4 0.0 178.2

176 86.2 0.0 173.4

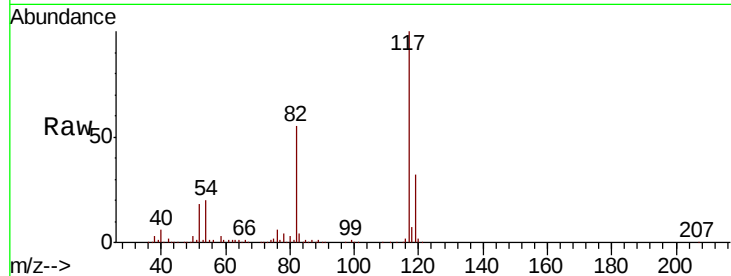




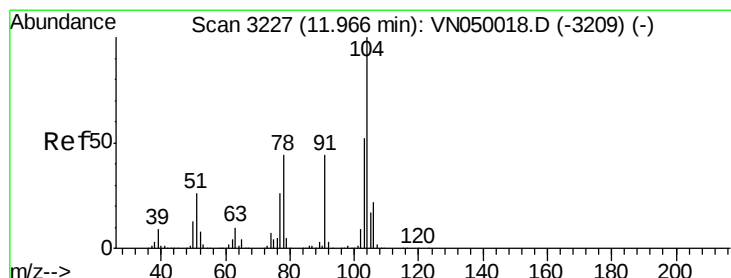
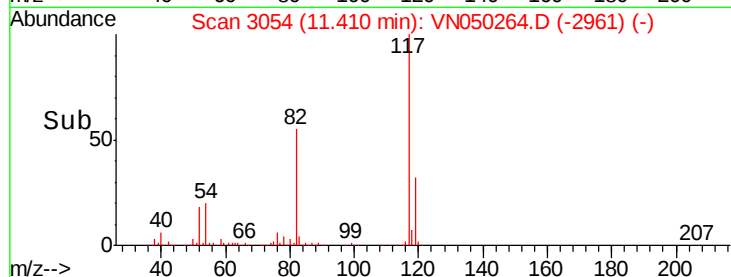
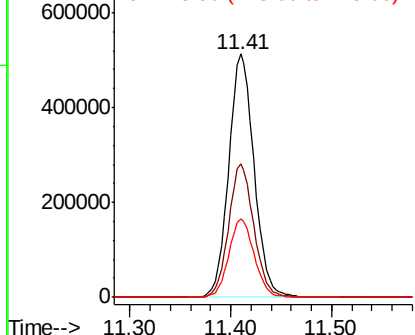
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050264.D
Acq: 2 Aug 2018 15:19

Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#02

Tot Ion:117 Resp: 899450
Ion Ratio Lower Upper
117 100
82 54.6 43.7 65.5
119 32.5 26.1 39.1

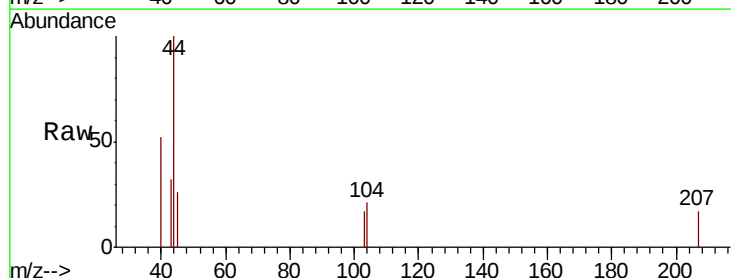


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VNO
Ion 118.90 (118.60 to 119.60): V

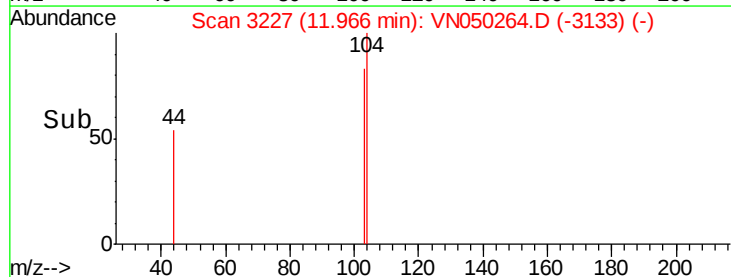
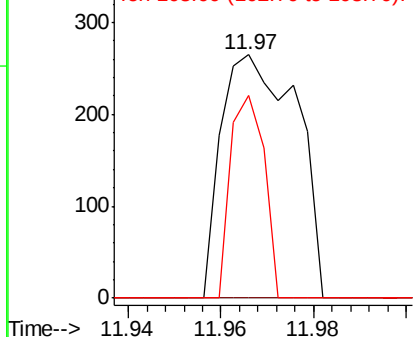


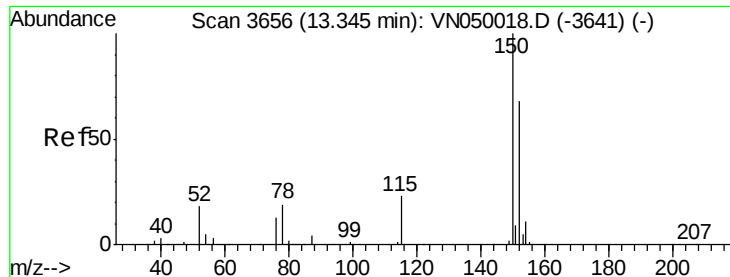
#70
Styrene
Concen: 0.94 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050264.D
Acq: 2 Aug 2018 15:19

Tgt Ion:104 Resp: 300
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 37.0 45.0 67.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VNO
Ion 103.00 (102.70 to 103.70): 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: VN050264.D

Acq: 2 Aug 2018 15:19

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#02

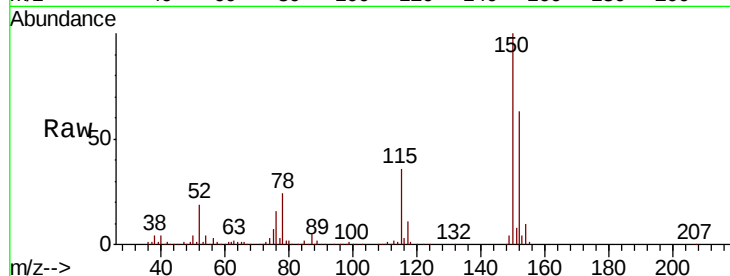
Tot Ion:152 Resp: 318709

Ion Ratio Lower Upper

152 100

115 56.7 27.8 83.3

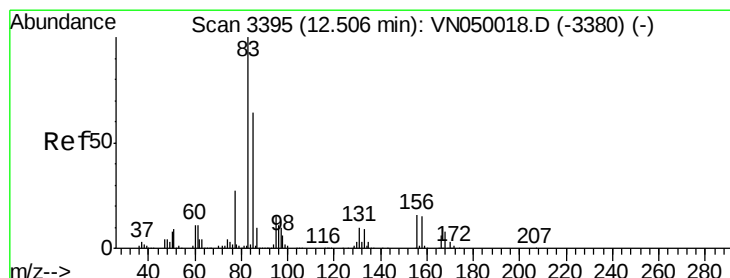
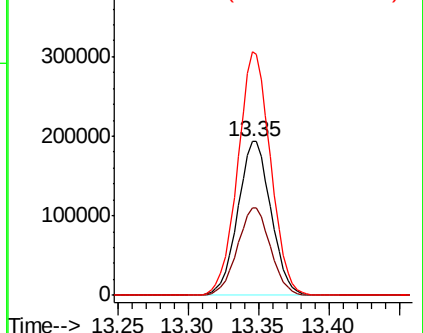
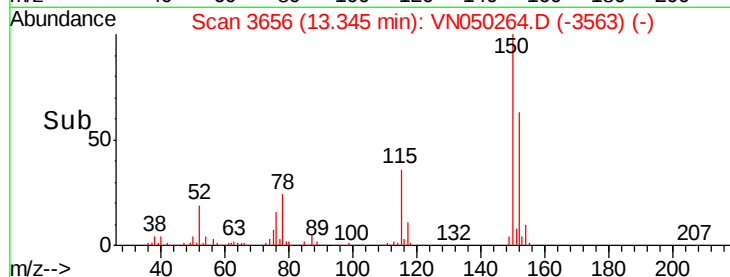
150 156.6 0.0 348.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN050264.D

Acq: 2 Aug 2018 15:19

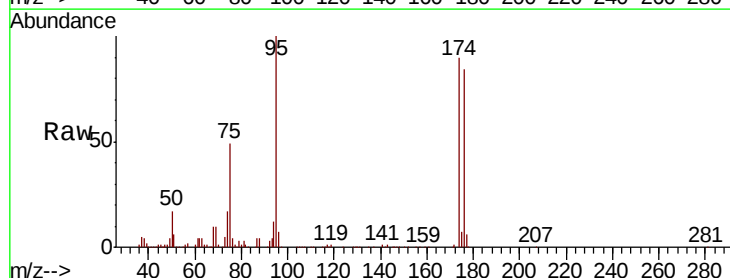
Tgt Ion: 83 Resp: 59

Ion Ratio Lower Upper

83 100

131 711.9 5.1 15.3#

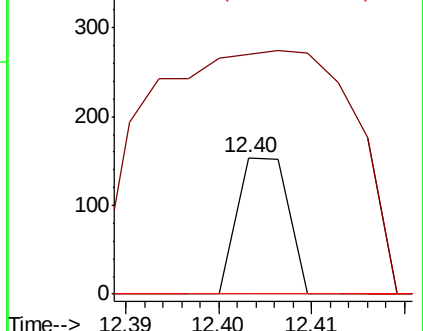
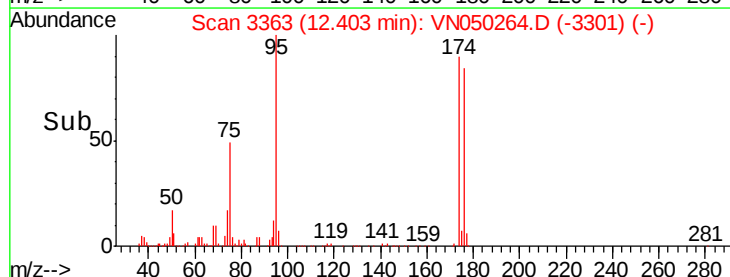
85 0.0 32.3 96.8#

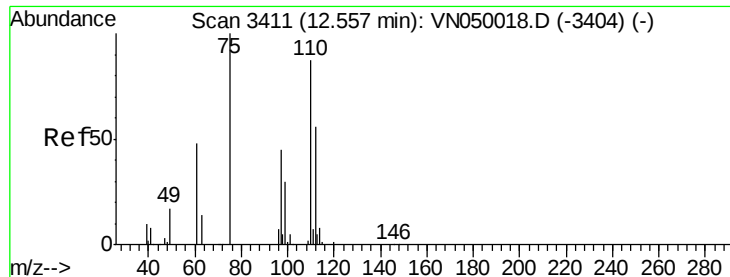


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 32.15 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050264.D

Acq: 2 Aug 2018 15:19

Instrument :

MSVOA_N

ClientSampleId :

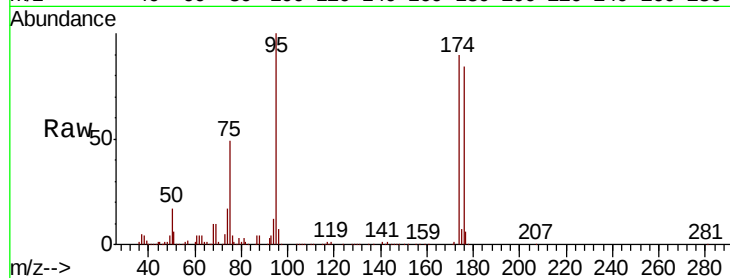
PB111674ZHE#02

Tot Ion: 75 Resp: 190426

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-3404) (-)

Ion 77.00 (76.70 to 77.70): VN050018.D (-3404) (-)

12.40

100000

80000

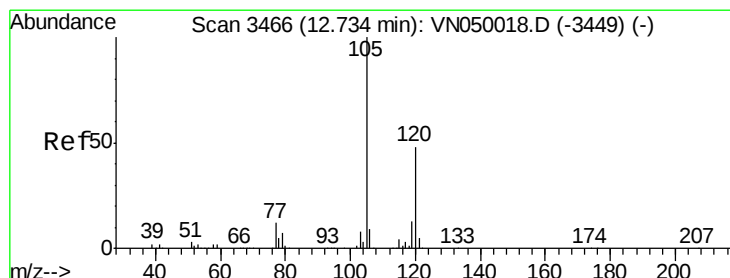
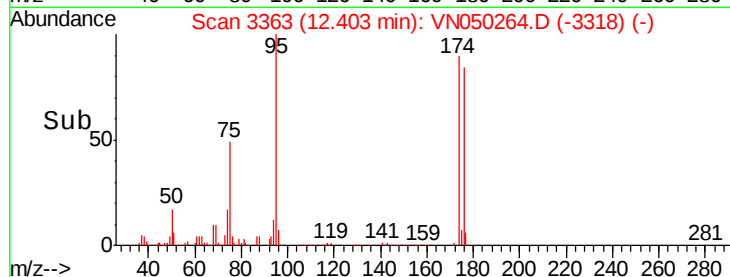
60000

40000

20000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.21 ug/l

RT: 12.74 min Scan# 3467

Delta R.T. 0.00 min

Lab File: VN050264.D

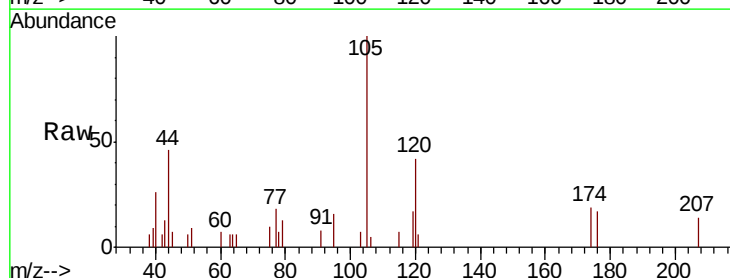
Acq: 2 Aug 2018 15:19

Tgt Ion:105 Resp: 4168

Ion Ratio Lower Upper

105 100

120 43.5 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN050018.D (-3449) (-)

Ion 120.00 (119.70 to 120.70): VN050018.D (-3449) (-)

12.74

3000

2500

2000

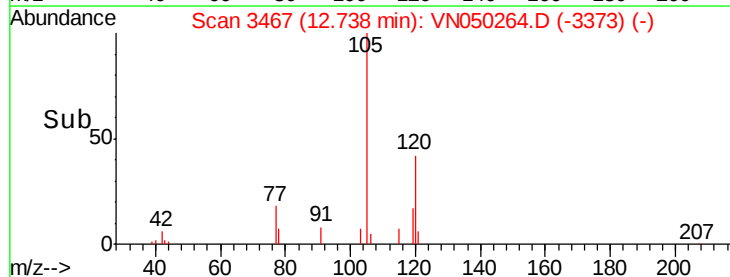
1500

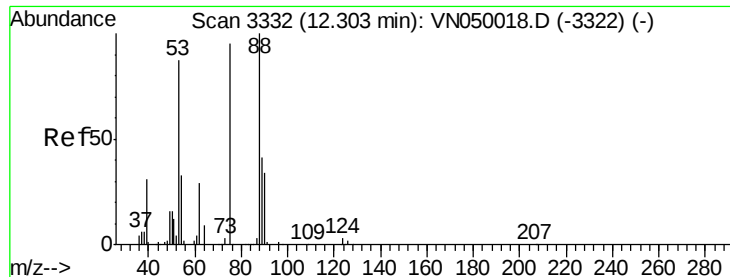
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 101.98 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050264.D

Acq: 2 Aug 2018 15:19

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#02

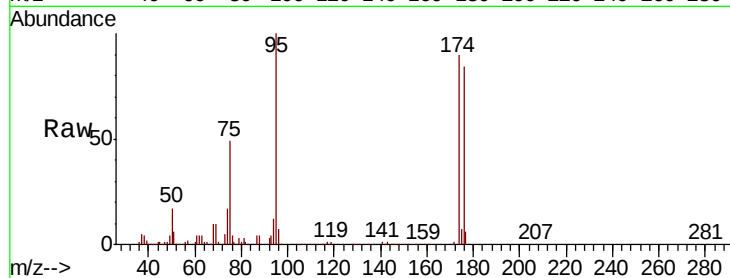
Tot Ion: 75 Resp: 190426

Ion Ratio Lower Upper

75 100

53 0.3 73.5 110.3#

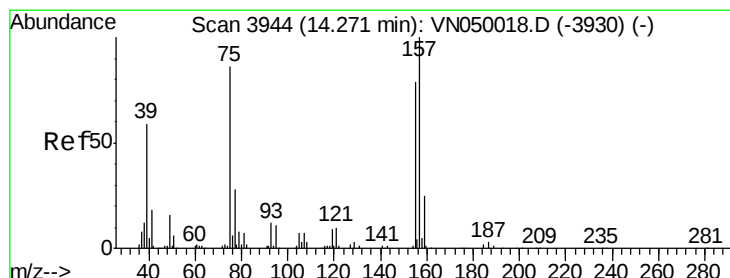
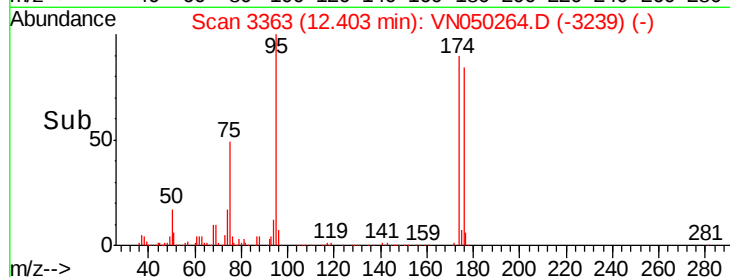
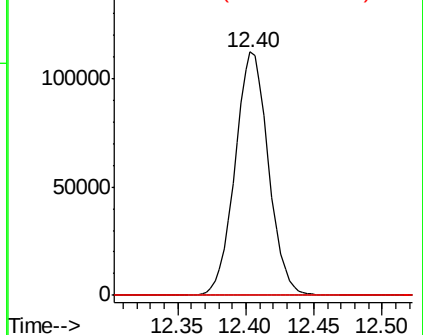
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3941

Delta R.T. -0.01 min

Lab File: VN050264.D

Acq: 2 Aug 2018 15:19

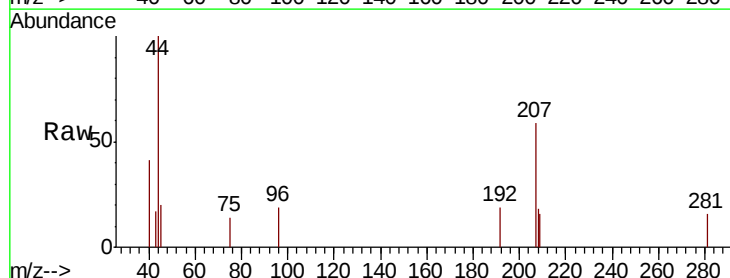
Tgt Ion: 75 Resp: 324

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

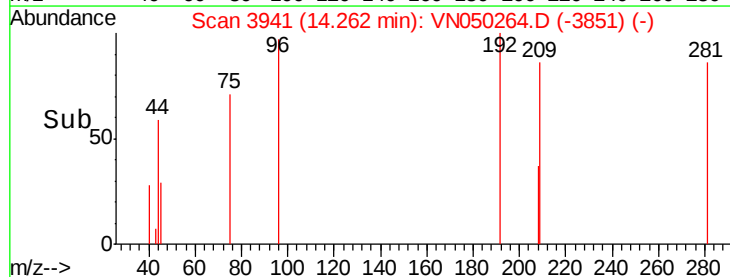
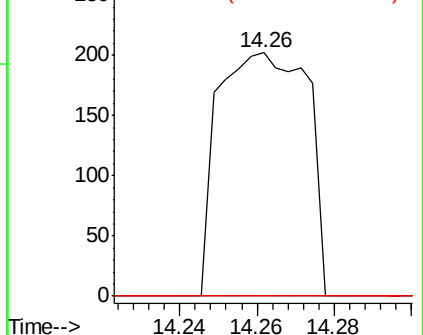
157 0.0 57.2 171.6#

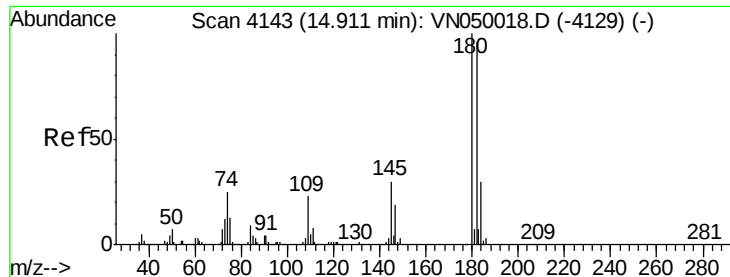


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

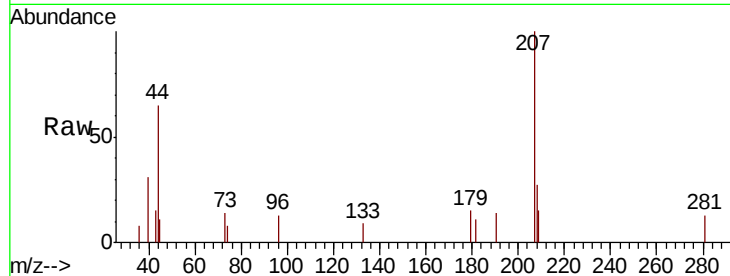




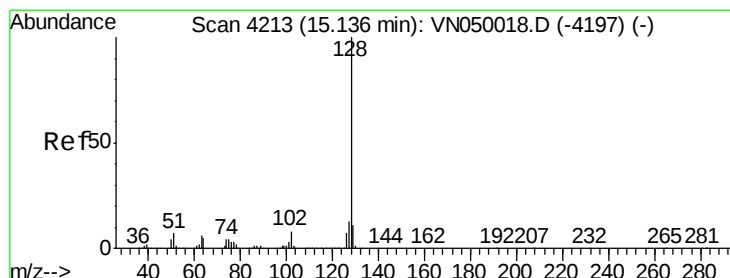
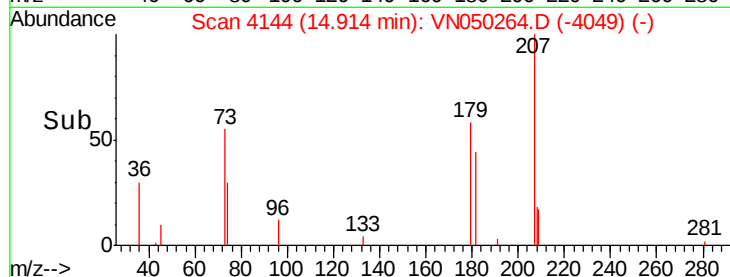
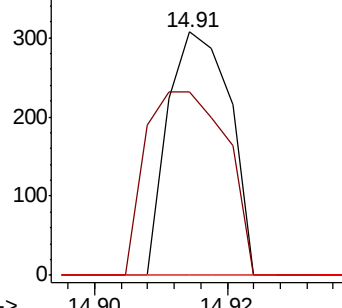
#93
 1,2,4-Trichlorobenzene
 Concen: 3.12 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN050264.D
 Acq: 2 Aug 2018 15:19

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#02

Tot Ion:180 Resp: 199
 Ion Ratio Lower Upper
 180 100
 182 98.5 46.7 140.1
 145 0.0 13.8 41.4#

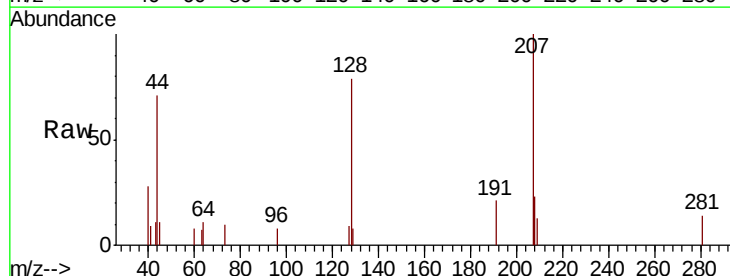


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

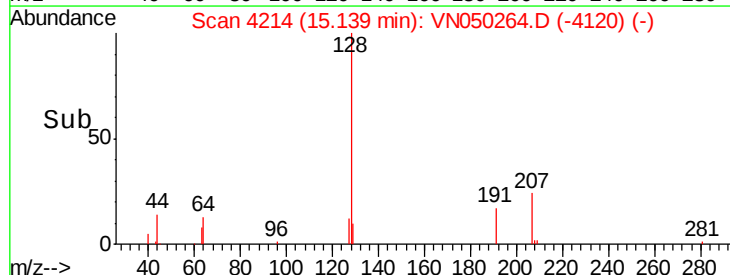
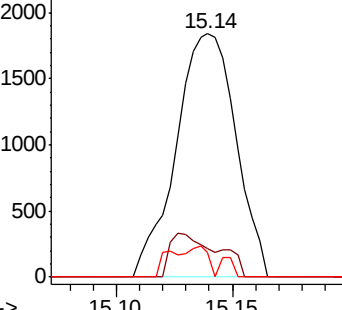


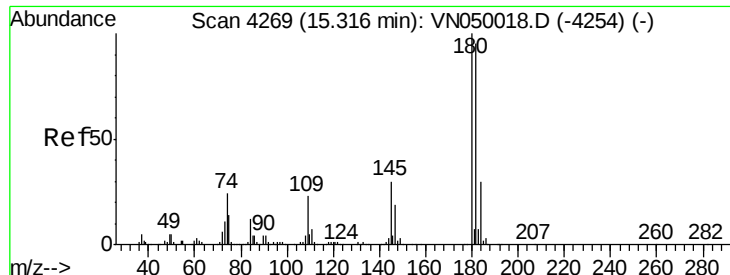
#95
 Naphthalene
 Concen: 4.62 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN050264.D
 Acq: 2 Aug 2018 15:19

Tgt Ion:128 Resp: 3296
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 3.7 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.27 ug/l
 RT: 15.32 min Scan# 4270
 Delta R.T. 0.00 min
 Lab File: VN050264.D
 Acq: 2 Aug 2018 15:19

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#02

Tot Ion	Ratio	Lower	Upper
180	100		
182	60.3	48.1	144.4
145	7.3	15.3	45.9#

