

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080318\
 Data File : VN050335.D
 Acq On : 4 Aug 2018 1:20
 Operator : MD\SY
 Sample : PB111719ZHE#15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111719ZHE#15

Quant Time: Aug 04 01:45:36 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	670511	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1113716	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	966422	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	387690	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	477725	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
35) Dibromofluoromethane	7.59	113	416551	45.81	ug/l	0.00
Spiked Amount			Recovery	=	91.62%	
50) Toluene-d8	10.09	98	1532639	45.85	ug/l	0.00
Spiked Amount			Recovery	=	91.70%	
62) 4-Bromofluorobenzene	12.40	95	439741	39.95	ug/l	0.00
Spiked Amount			Recovery	=	79.90%	

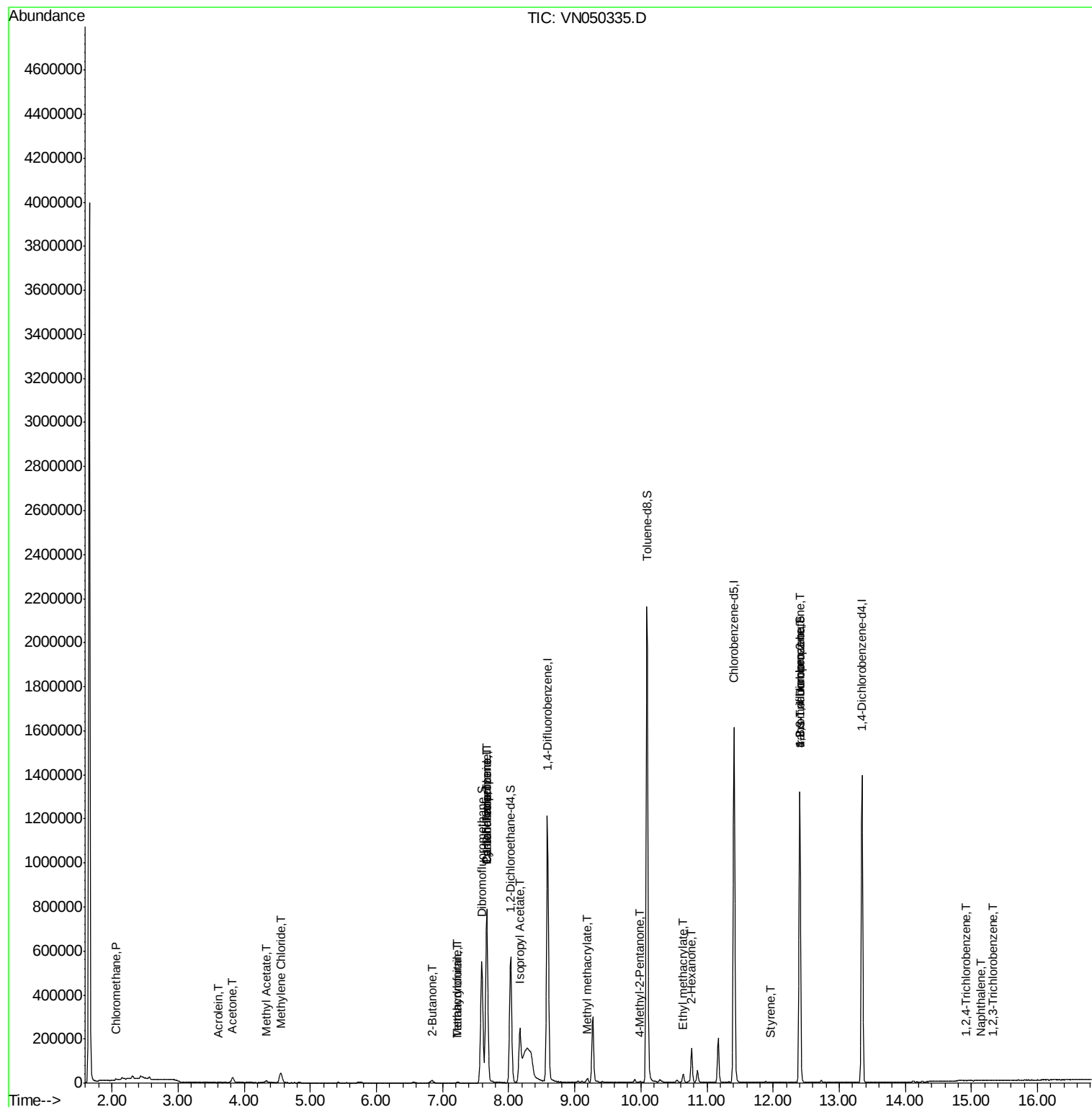
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3753	0.36	ug/l	95
5) Bromomethane	2.56	94	5244	Below Cal		82
13) Acrolein	3.60	56	597	1.08	ug/l #	58
16) Acetone	3.83	43	40993	14.51	ug/l	97
18) Methyl Acetate	4.34	43	16689	0.33	ug/l	99
20) Methylene Chloride	4.55	84	34613	2.99	ug/l	95
25) 2-Butanone	6.85	43	6466	1.81	ug/l	97
29) Tetrahydrofuran	7.22	42	978	0.42	ug/l #	78
31) Cyclohexane	7.67	56	12571	0.91	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45924	3.66	ug/l #	47
38) Carbon Tetrachloride	7.67	117	60743	4.56	ug/l #	17
41) Methacrylonitrile	7.22	41	1123	2.98	ug/l #	17
43) Isopropyl Acetate	8.17	43	297807	17.32	ug/l	95
48) Methyl methacrylate	9.18	41	9551	1.27	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	3086	0.36	ug/l	99
56) Ethyl methacrylate	10.64	69	569	2.08	ug/l #	1
59) 2-Hexanone	10.77	43	23092	8.75	ug/l #	55
70) Styrene	11.97	104	393	0.94	ug/l #	64
75) 1,1,2,2-Tetrachloroethane	12.40	83	501	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	214269	29.74	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	214269	94.33	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	202	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	553	3.16	ug/l #	81
95) Naphthalene	15.14	128	814	4.46	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.31	180	255	2.24	ug/l #	40

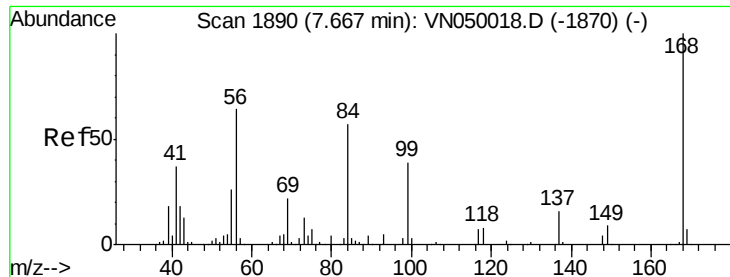
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 04 01:45:36 2018
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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: VN050335.D

Acq: 4 Aug 2018 1:20

Instrument :

MSVOA_N

ClientSampleId :

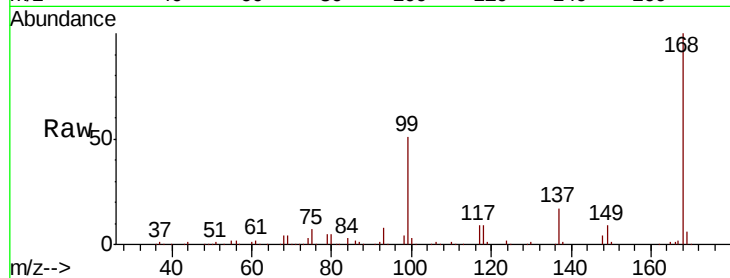
PB111719ZHE#15

Tot Ion:168 Resp: 670511

Ion Ratio Lower Upper

168 100

99 51.2 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

300000

250000

200000

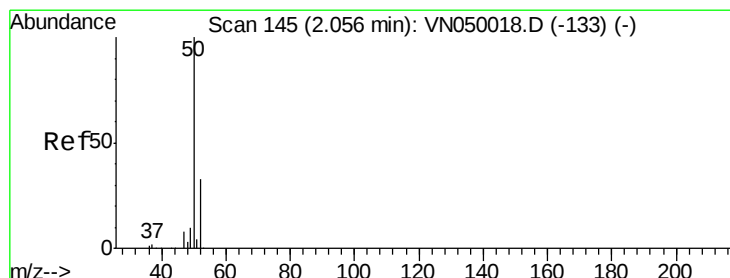
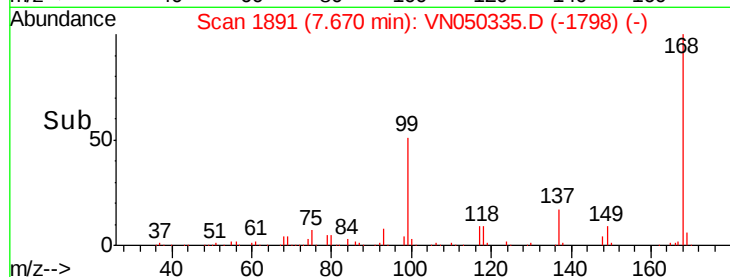
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#3

Chloromethane

Concen: 0.36 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050335.D

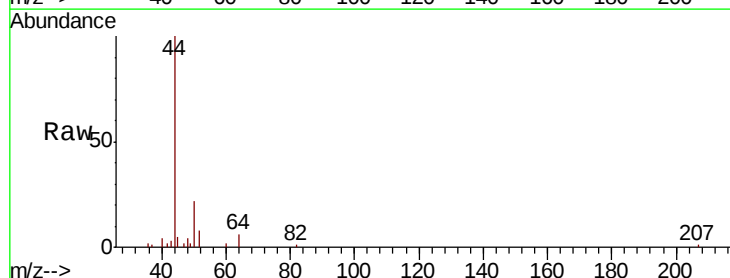
Acq: 4 Aug 2018 1:20

Tgt Ion: 50 Resp: 3753

Ion Ratio Lower Upper

50 100

52 35.3 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

3000

2500

2000

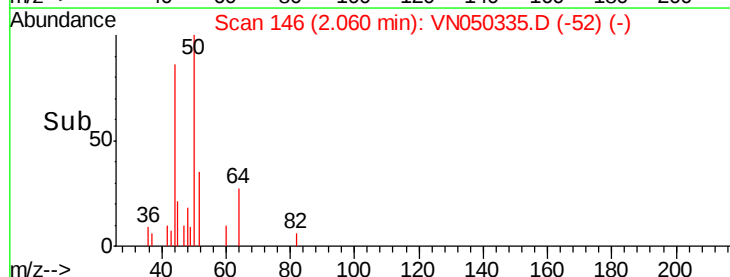
1500

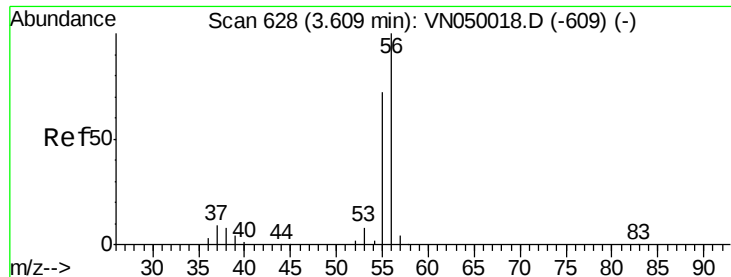
1000

500

0

Time--> 2.05 2.10





#13

Acrolein

Concen: 1.08 ug/l

RT: 3.60 min Scan# 626

Delta R.T. -0.01 min

Lab File: VN050335.D

Acq: 4 Aug 2018 1:20

Instrument :

MSVOA_N

ClientSampleId :

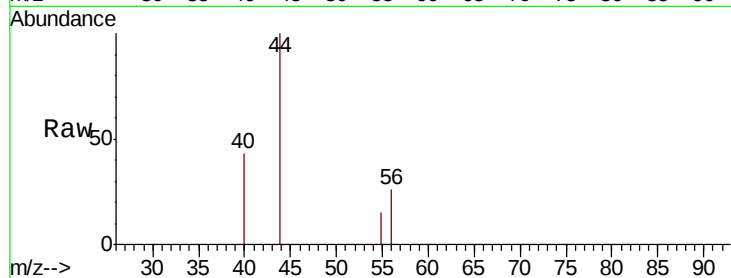
PB111719ZHE#15

Tot Ion: 56 Resp: 597

Ion Ratio Lower Upper

56 100

55 104.2 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.60

400

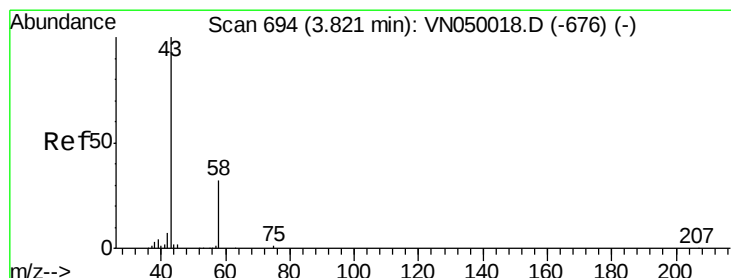
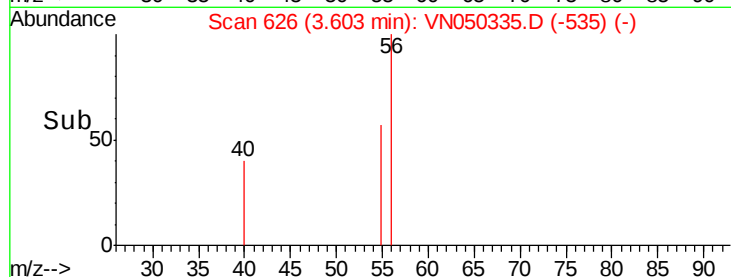
300

200

100

0

Time-->



#16

Acetone

Concen: 14.51 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN050335.D

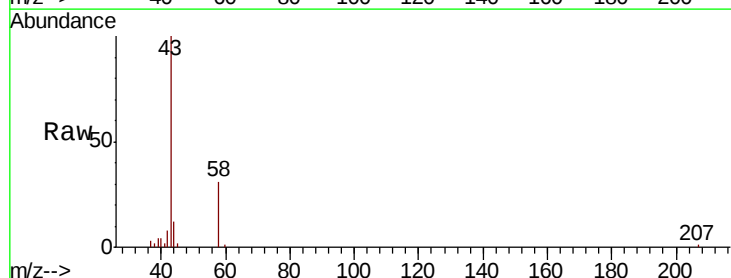
Acq: 4 Aug 2018 1:20

Tgt Ion: 43 Resp: 40993

Ion Ratio Lower Upper

43 100

58 30.6 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

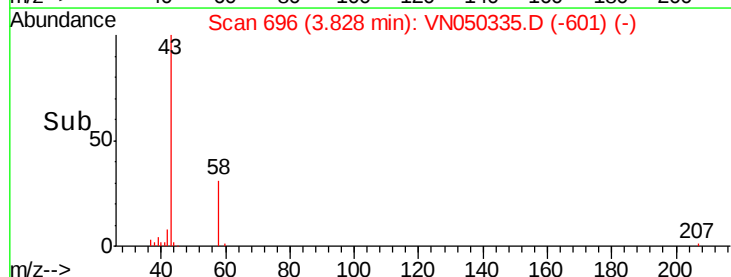
15000

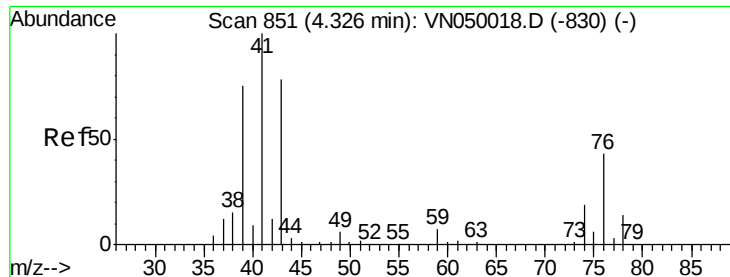
10000

5000

0

Time-->

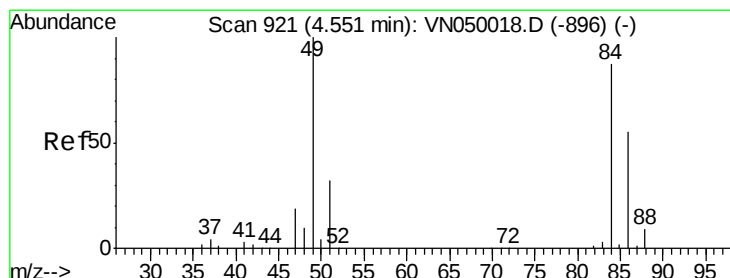
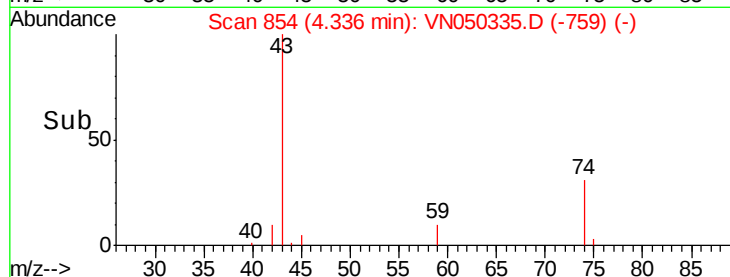
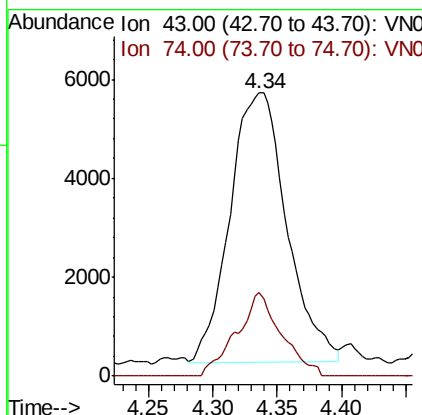
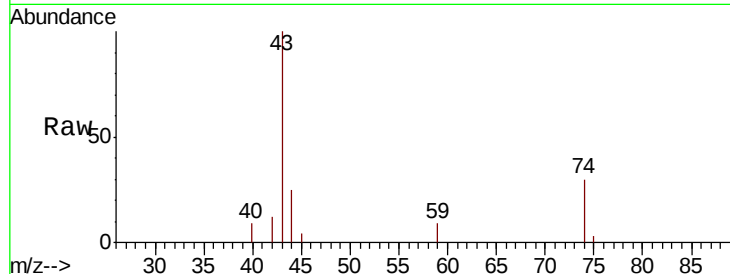




#18
Methvl Acetate
Concen: 0.33 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.00 min
Lab File: VN050335.D
Acq: 4 Aug 2018 1:20

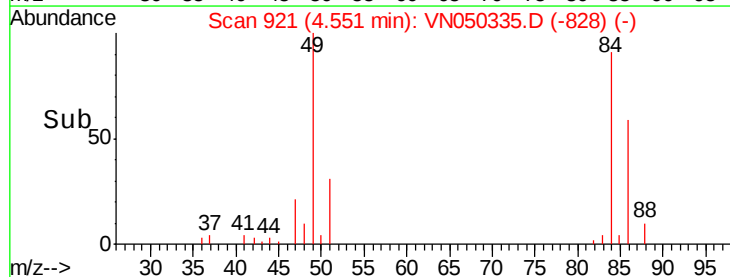
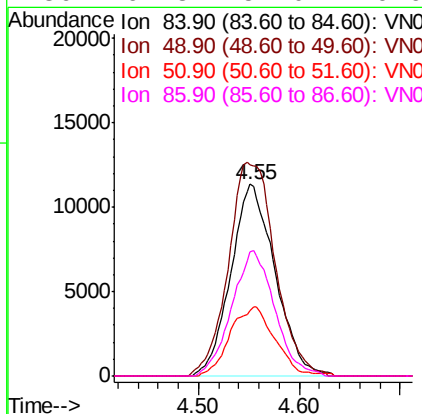
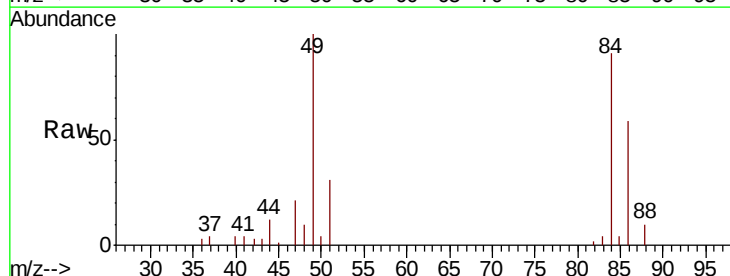
Instrument :
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PB111719ZHE#15

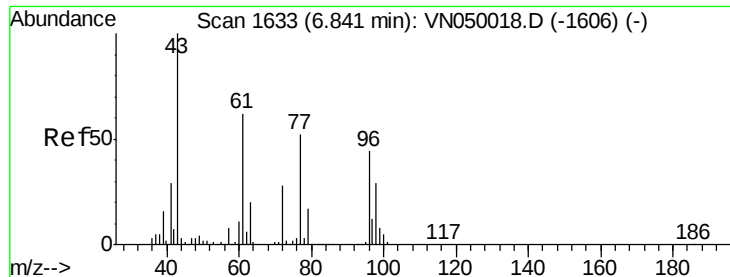
Tot Ion: 43 Resp: 16689
Ion Ratio Lower Upper
43 100
74 24.4 19.2 28.8



#20
Methylene Chloride
Concen: 2.99 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050335.D
Acq: 4 Aug 2018 1:20

Tgt Ion: 84 Resp: 34613
Ion Ratio Lower Upper
84 100
49 110.3 94.8 142.2
51 33.9 28.3 42.5
86 64.8 51.0 76.6

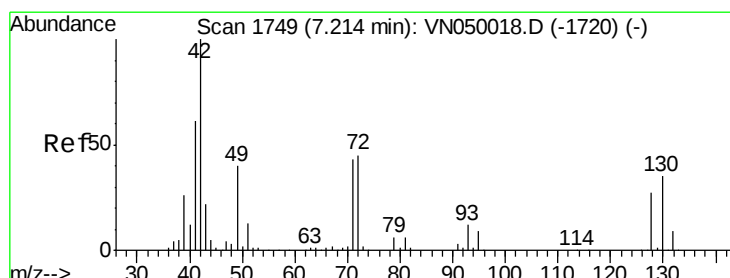
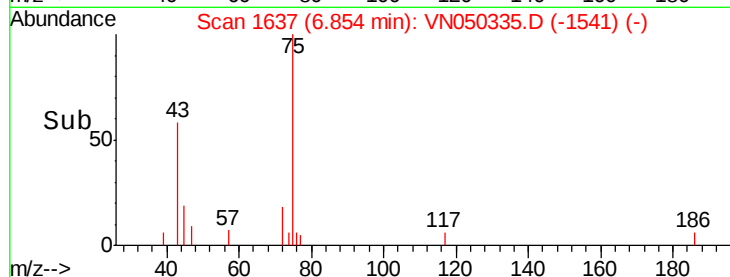
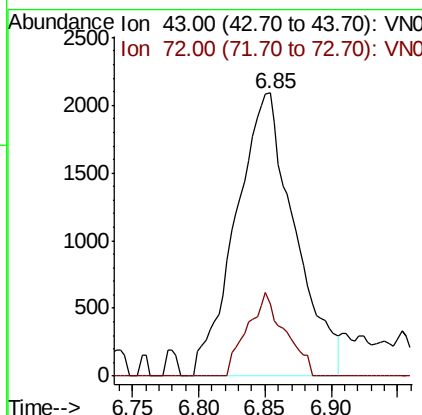
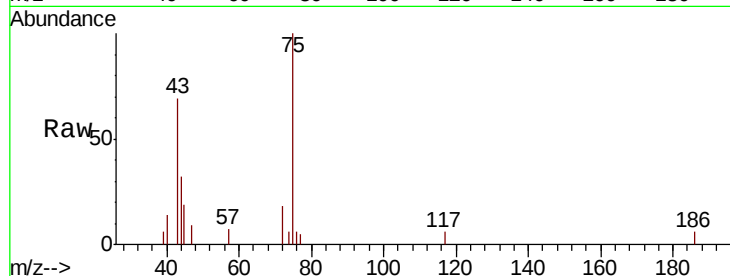




#25
2-Butanone
Concen: 1.81 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050335.D
Acq: 4 Aug 2018 1:20

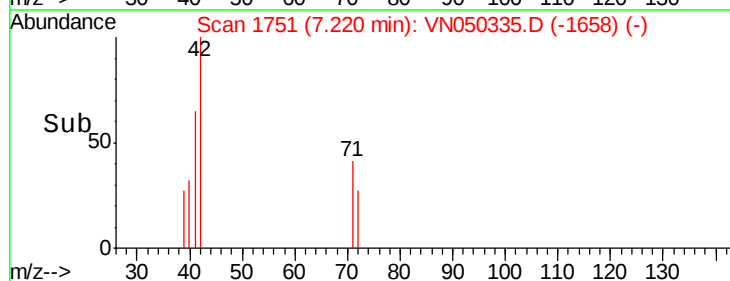
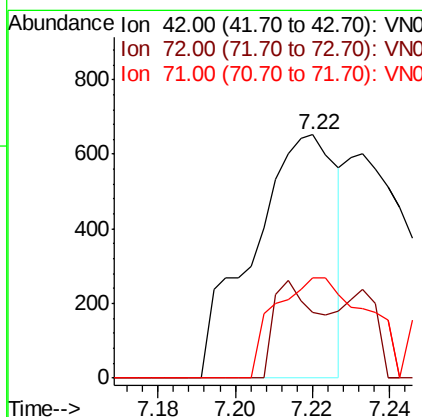
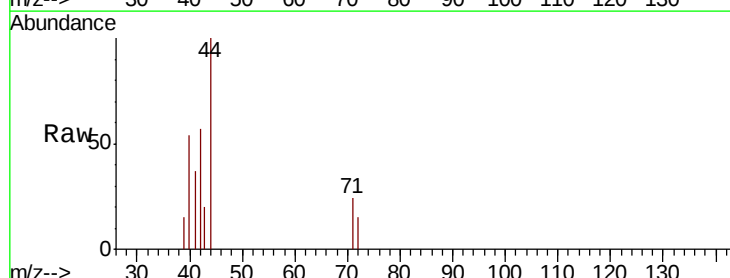
Instrument :
MSVOA_N
ClientSampleId :
PB111719ZHE#15

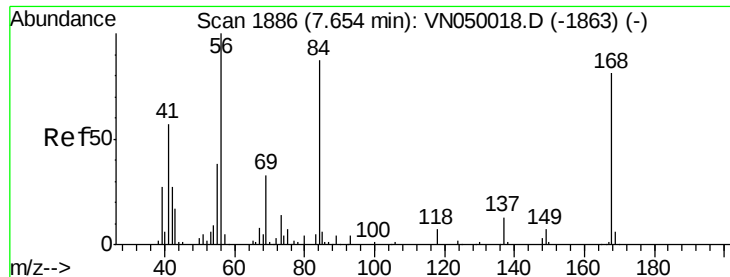
Tot Ion: 43 Resp: 6466
Ion Ratio Lower Upper
43 100
72 25.4 21.5 32.3



#29
Tetrahydrofuran
Concen: 0.42 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN050335.D
Acq: 4 Aug 2018 1:20

Tgt Ion: 42 Resp: 978
Ion Ratio Lower Upper
42 100
72 20.4 35.9 53.9#
71 45.0 33.7 50.5

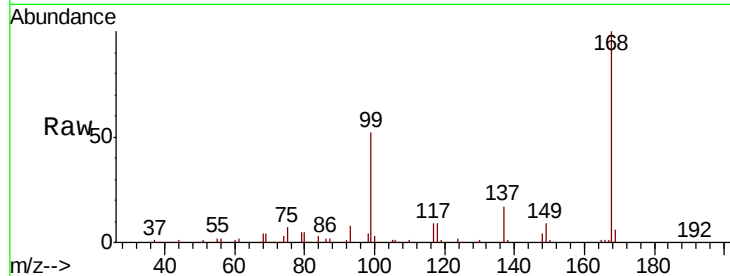




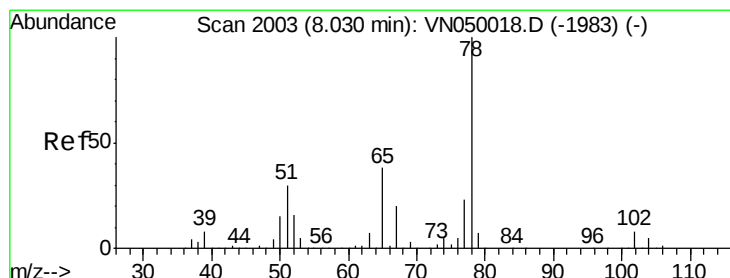
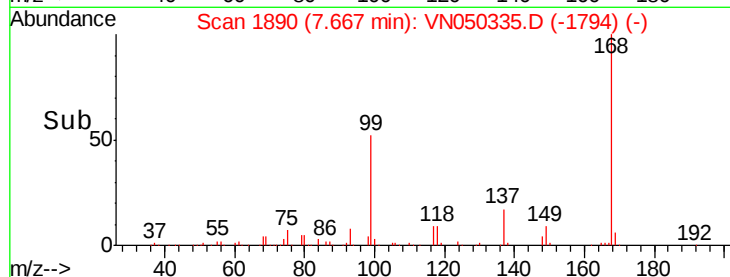
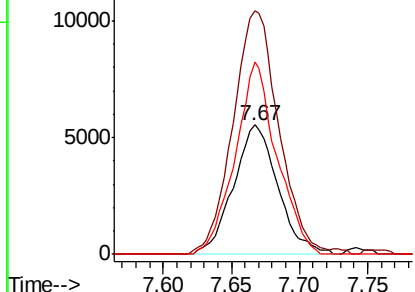
#31
Cyclohexane
Concen: 0.91 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050335.D
Acq: 4 Aug 2018 1:20

Instrument :
MSVOA_N
ClientSampleId :
PB111719ZHE#15

Tot Ion: 56 Resp: 12571
Ion Ratio Lower Upper
56 100
69 187.9 26.2 39.4#
84 148.8 67.4 101.0#

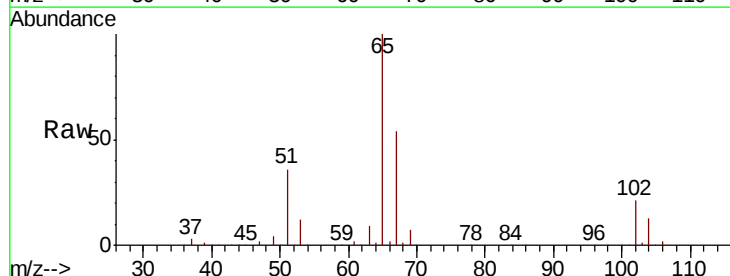


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

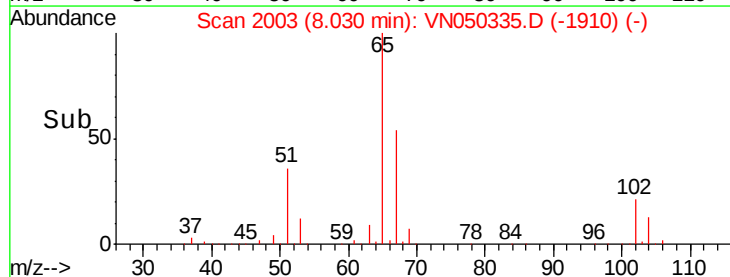
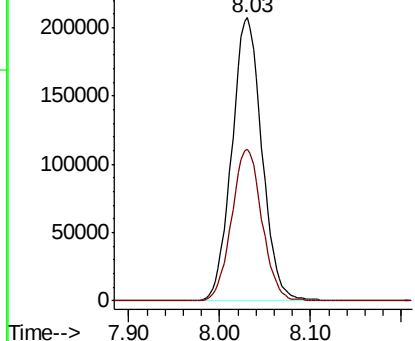


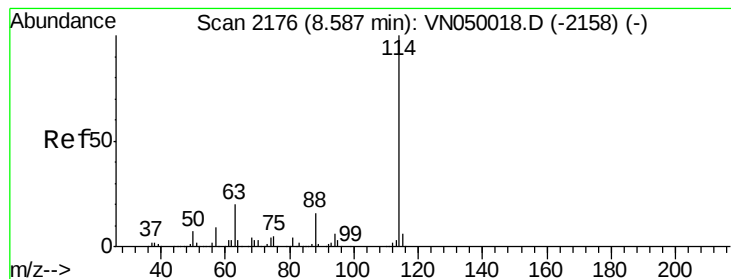
#33
1,2-Dichloroethane-d4
Concen: 51.07 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050335.D
Acq: 4 Aug 2018 1:20

Tgt Ion: 65 Resp: 477725
Ion Ratio Lower Upper
65 100
67 53.9 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: VN050335.D

Acq: 4 Aug 2018 1:20

Instrument :

MSVOA_N

ClientSampleId :

PB111719ZHE#15

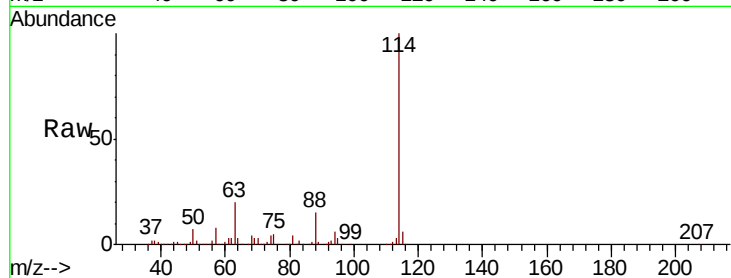
Tot Ion:114 Resp: 1113716

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.0

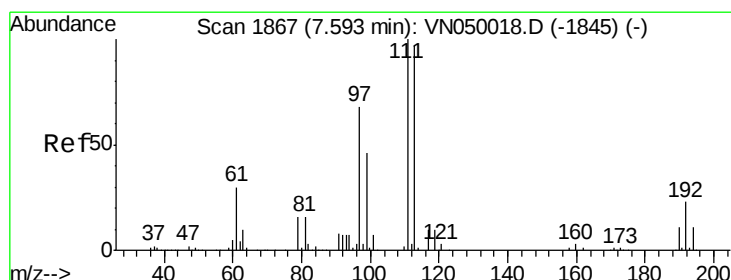
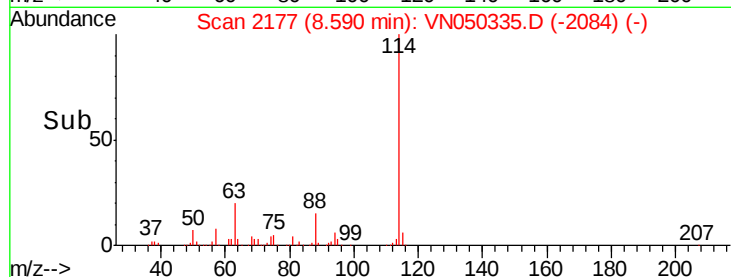
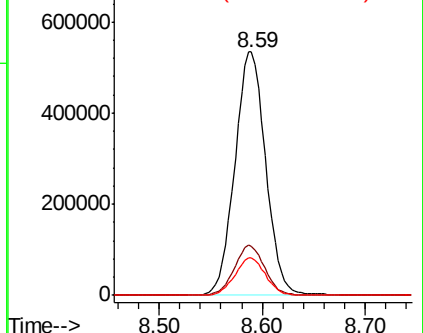
88 15.4 0.0 31.2



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: 45.81 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN050335.D

Acq: 4 Aug 2018 1:20

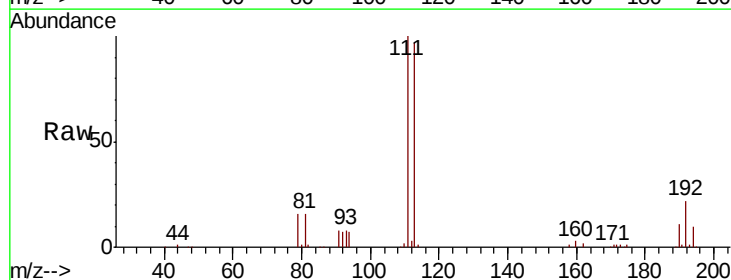
Tgt Ion:113 Resp: 416551

Ion Ratio Lower Upper

113 100

111 102.5 80.7 121.1

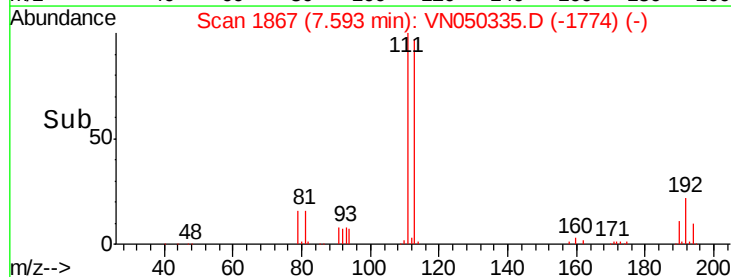
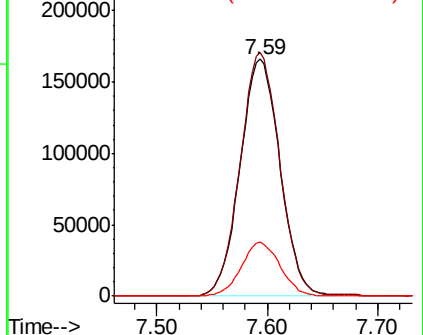
192 22.2 17.8 26.6

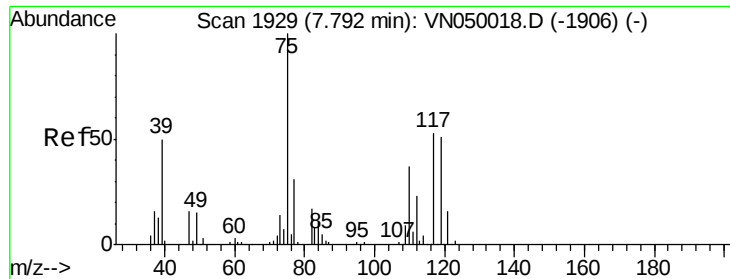


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

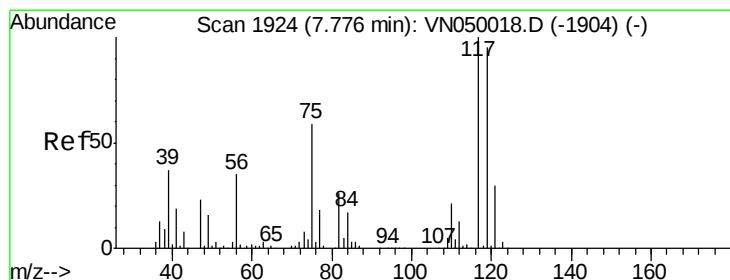
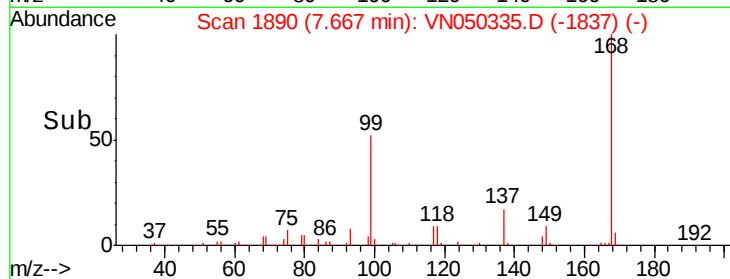
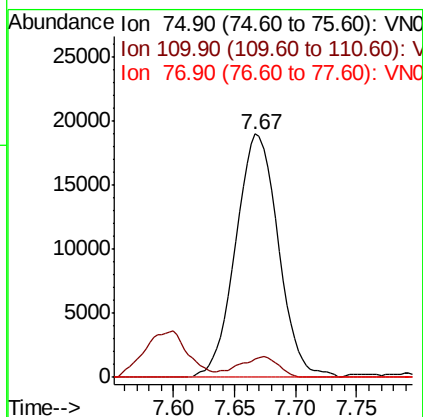
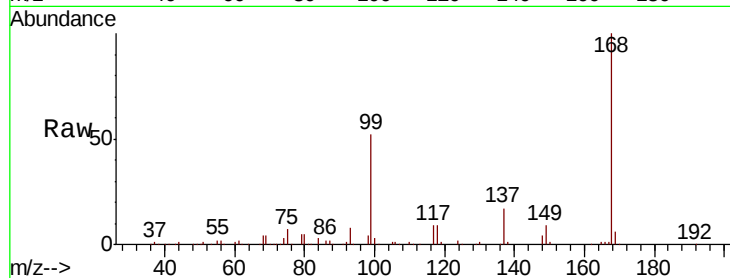




#36
 1,1-Dichloropropene
 Concen: 3.66 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050335.D
 Acq: 4 Aug 2018 1:20

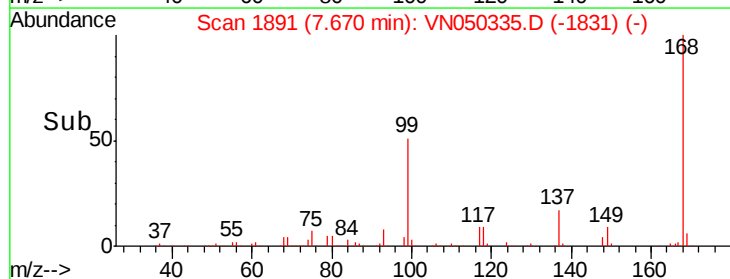
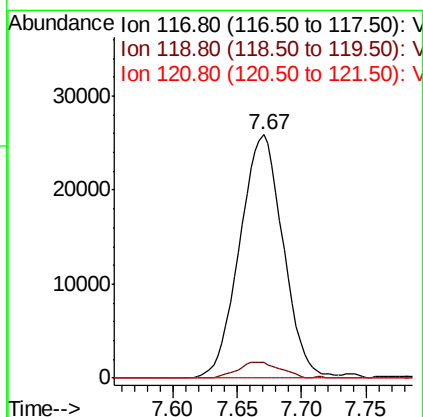
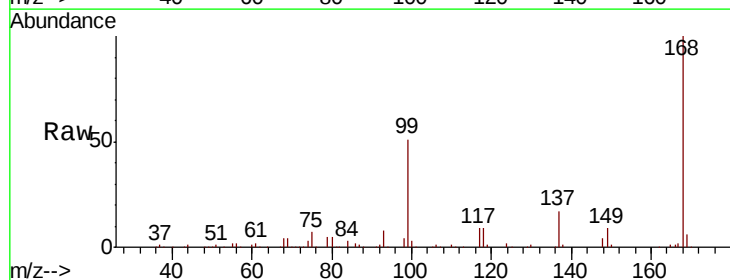
Instrument :
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 ClientSampleId :
 PB111719ZHE#15

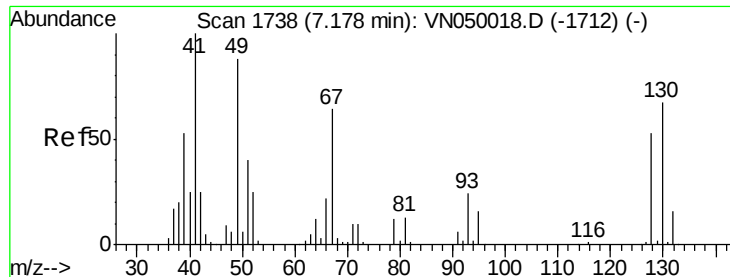
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.7	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 4.56 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050335.D
 Acq: 4 Aug 2018 1:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.4	77.4	116.0#
121	0.0	23.9	35.9#

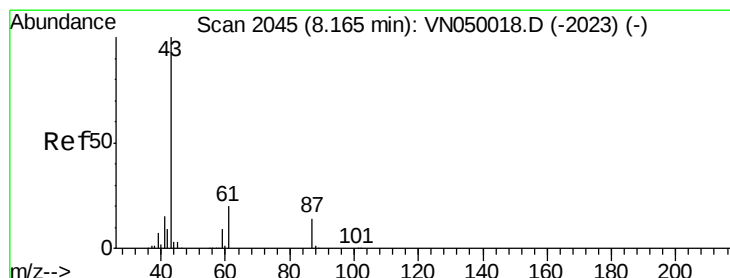
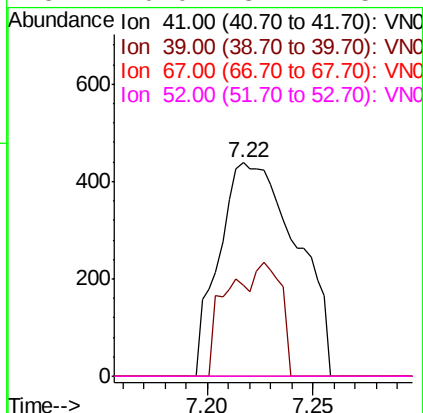
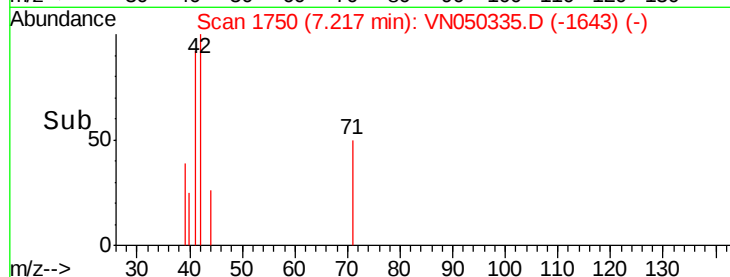
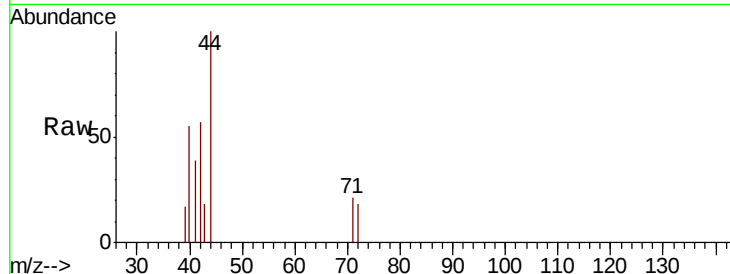




#41
Methacrylonitrile
Concen: 2.98 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.04 min
Lab File: VN050335.D
Acq: 4 Aug 2018 1:20

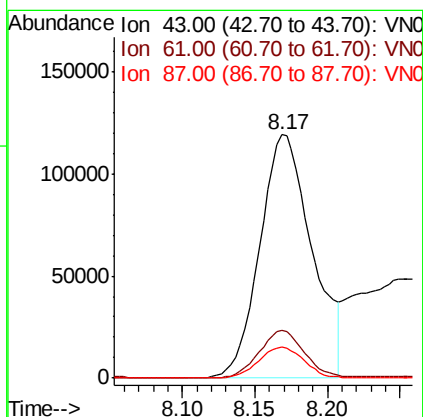
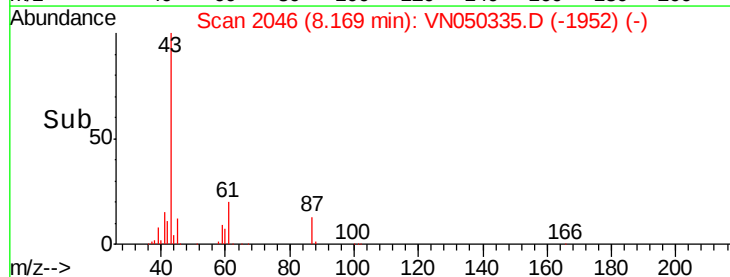
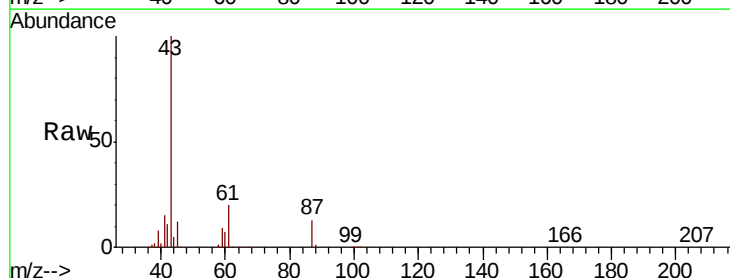
Instrument :
MSVOA_N
ClientSampleId :
PB111719ZHE#15

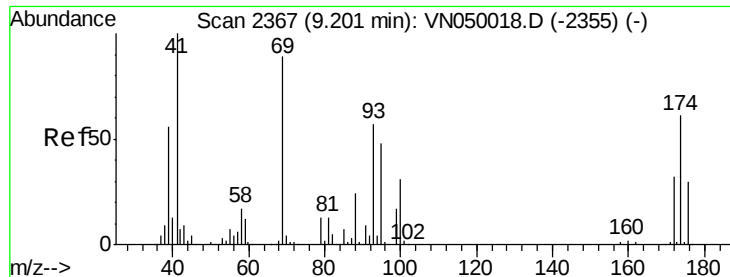
Tot Ion: 41 Resp: 1123
Ion Ratio Lower Upper
41 100
39 18.3 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 17.32 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050335.D
Acq: 4 Aug 2018 1:20

Tgt Ion: 43 Resp: 297807
Ion Ratio Lower Upper
43 100
61 17.1 15.8 23.6
87 11.1 10.3 15.5

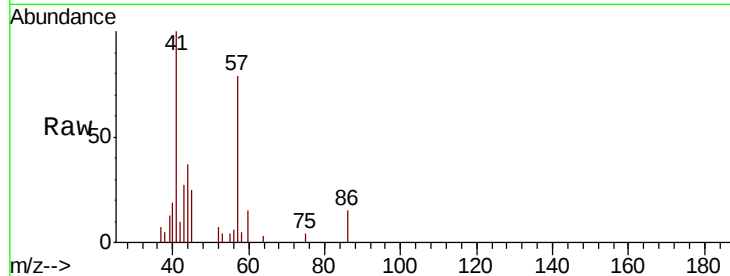




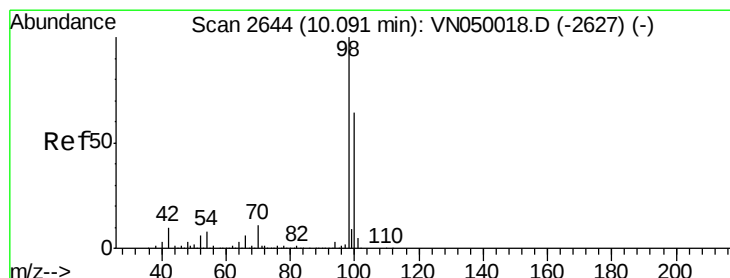
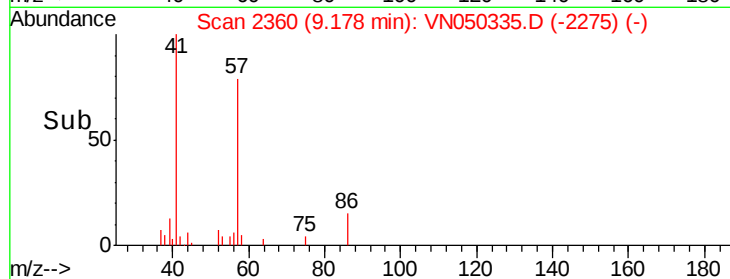
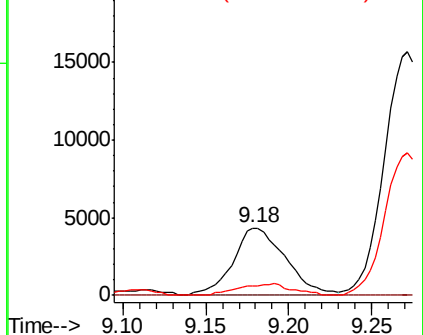
#48
Methvl methacrylate
Concen: 1.27 ug/l
RT: 9.18 min Scan# 2360
Delta R.T. -0.03 min
Lab File: VN050335.D
Acq: 4 Aug 2018 1:20

Instrument :
MSVOA_N
ClientSampleId :
PB111719ZHE#15

Tot Ion: 41 Resp: 9551
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 17.2 43.9 65.9#

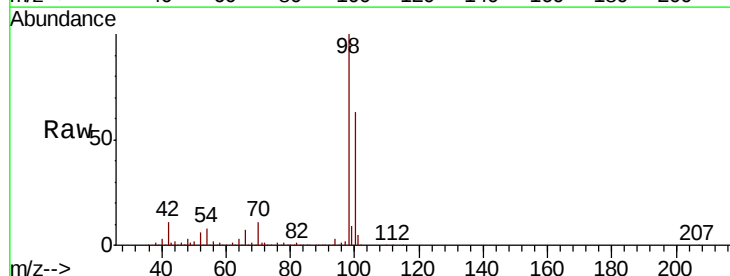


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

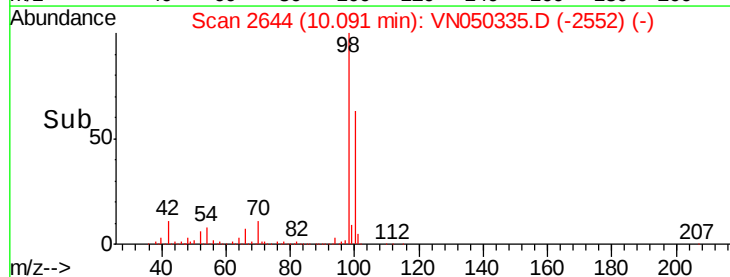
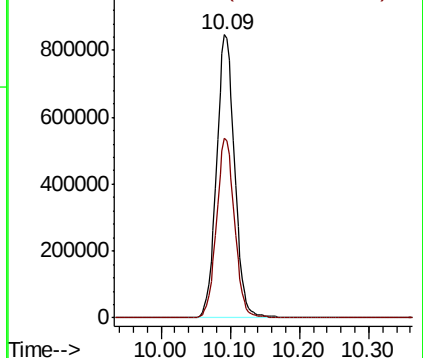


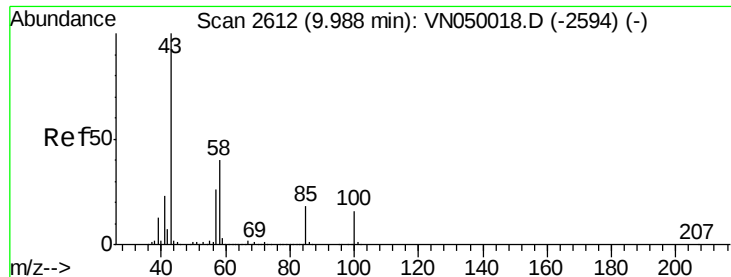
#50
Toluene-d8
Concen: 45.85 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050335.D
Acq: 4 Aug 2018 1:20

Tgt Ion: 98 Resp: 1532639
Ion Ratio Lower Upper
98 100
100 63.3 50.7 76.1



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

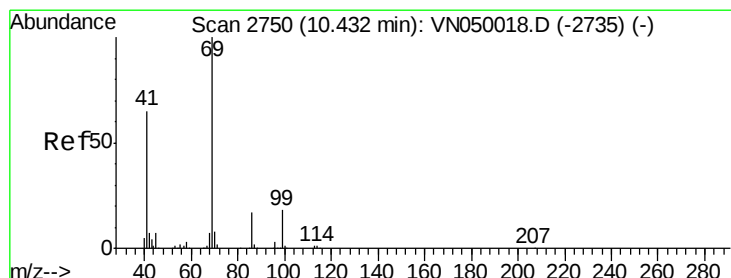
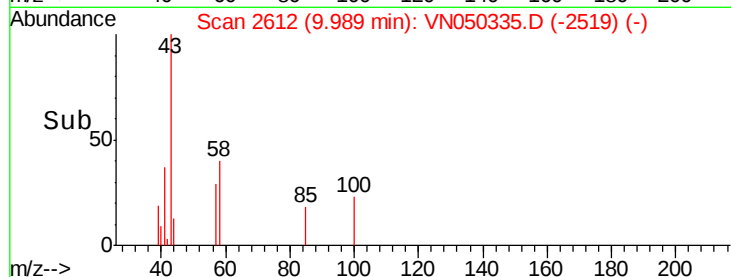
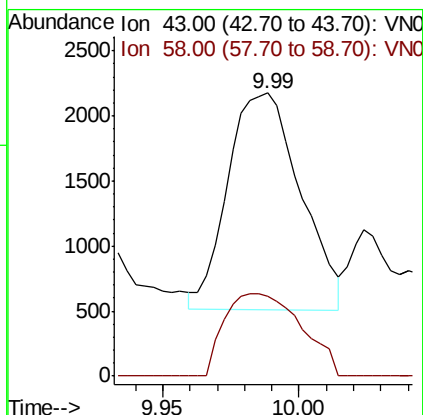
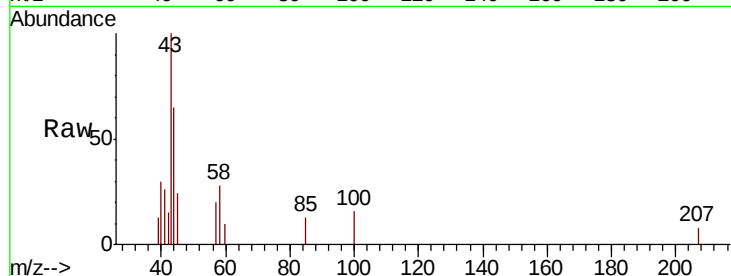




#51
4-Methyl-2-Pentanone
Concen: 0.36 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050335.D
Acq: 4 Aug 2018 1:20

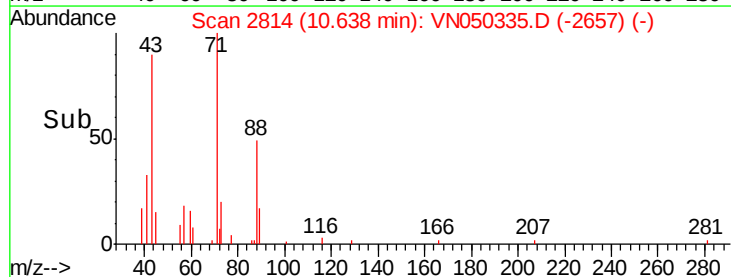
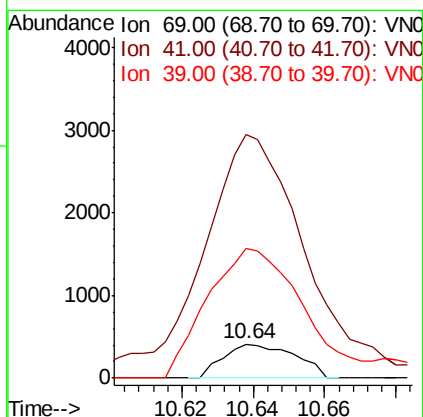
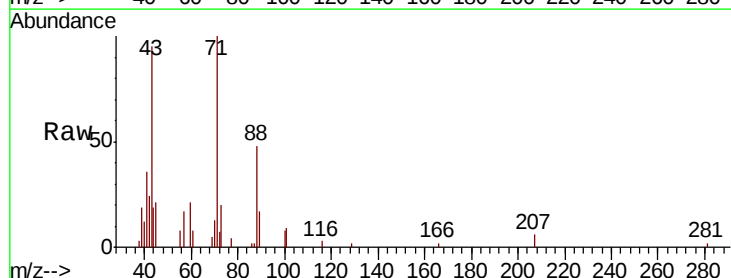
Instrument :
MSVOA_N
ClientSampleId :
PB111719ZHE#15

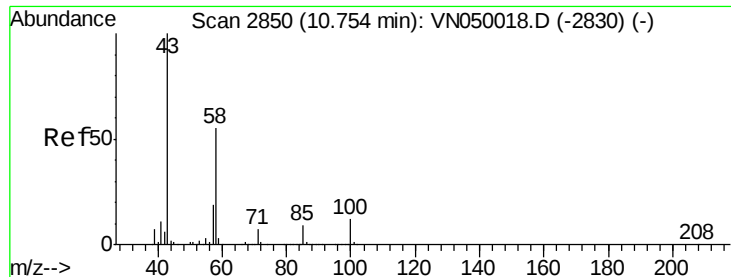
Tot Ion: 43 Resp: 3086
Ion Ratio Lower Upper
43 100
58 40.3 31.9 47.9



#56
Ethyl methacrylate
Concen: 2.08 ug/l
RT: 10.64 min Scan# 2814
Delta R.T. 0.21 min
Lab File: VN050335.D
Acq: 4 Aug 2018 1:20

Tgt Ion: 69 Resp: 569
Ion Ratio Lower Upper
69 100
41 1050.4 51.0 76.4#
39 511.4 26.6 40.0#





#59

2-Hexanone

Concen: 8.75 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050335.D

Acq: 4 Aug 2018 1:20

Instrument :

MSVOA_N

ClientSampleId :

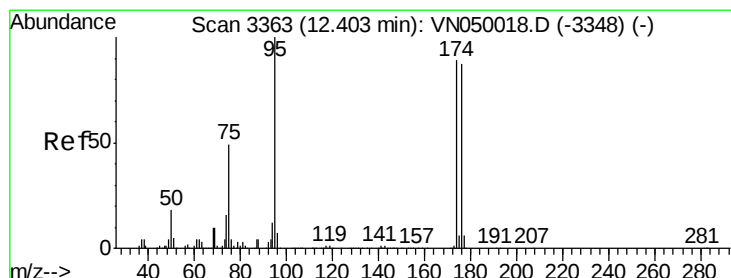
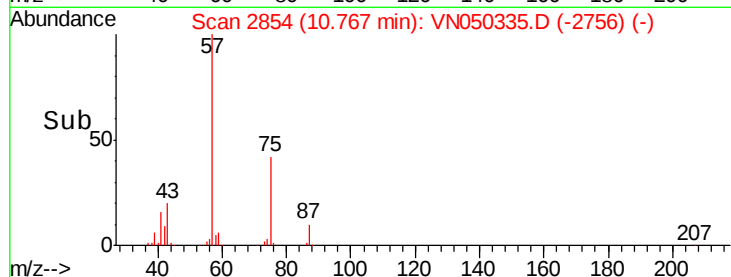
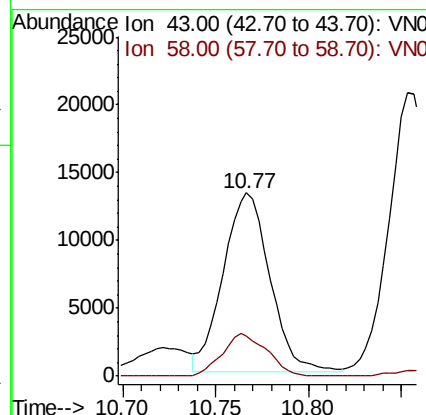
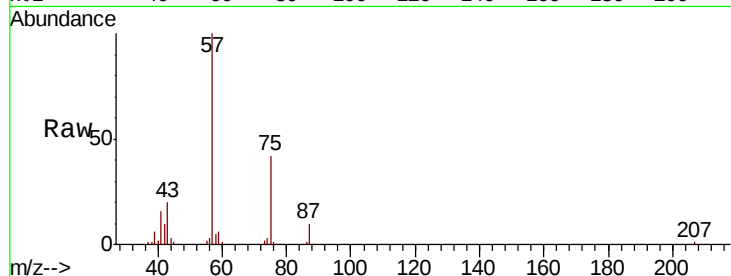
PB111719ZHE#15

Tot Ion: 43 Resp: 23092

Ion Ratio Lower Upper

43 100

58 22.7 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 39.95 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050335.D

Acq: 4 Aug 2018 1:20

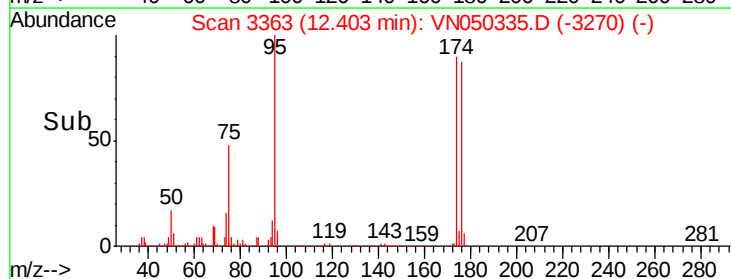
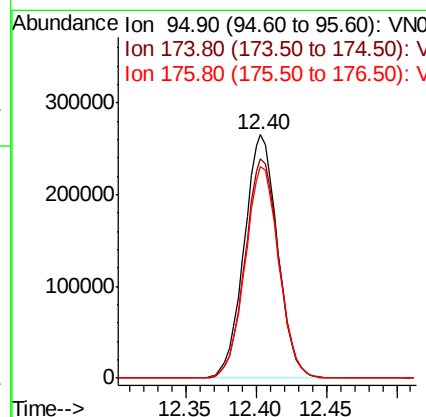
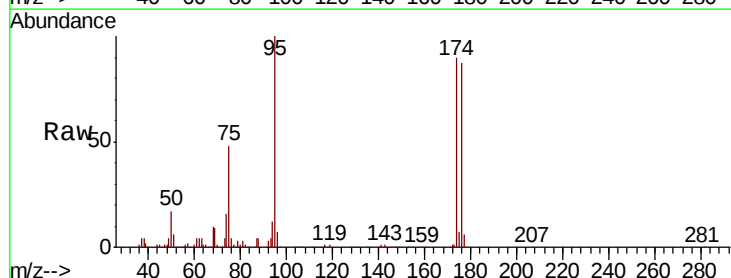
Tgt Ion: 95 Resp: 439741

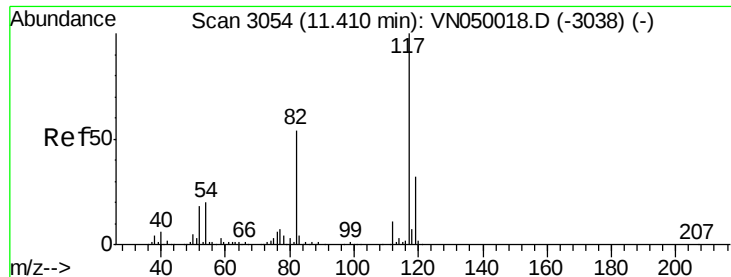
Ion Ratio Lower Upper

95 100

174 91.1 0.0 178.2

176 88.0 0.0 173.4

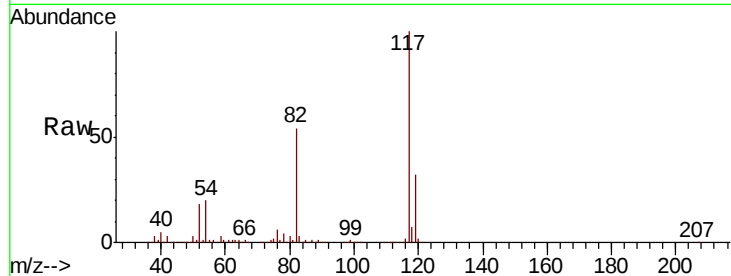




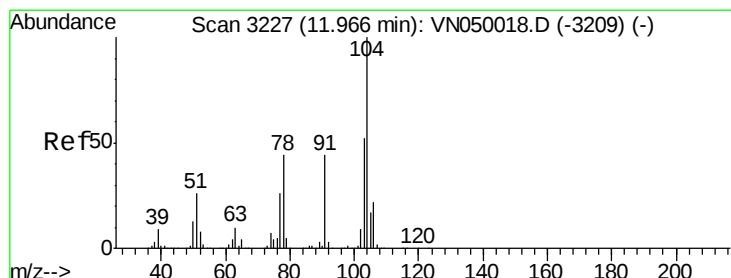
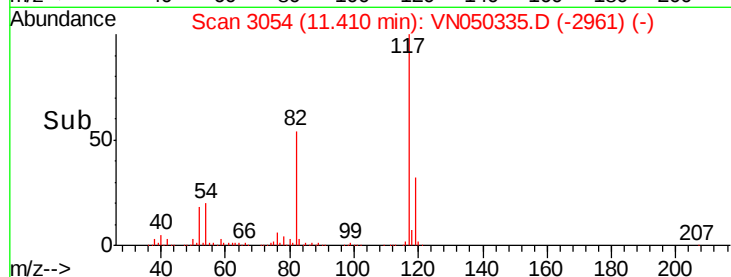
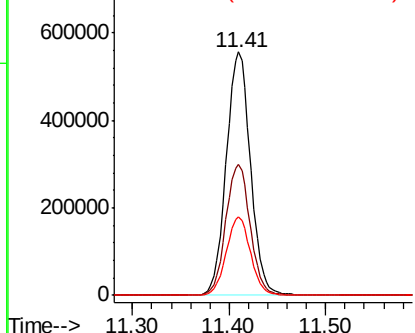
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050335.D
Acq: 4 Aug 2018 1:20

Instrument :
MSVOA_N
ClientSampleId :
PB111719ZHE#15

Tot Ion:117 Resp: 966422
Ion Ratio Lower Upper
117 100
82 53.6 43.7 65.5
119 32.3 26.1 39.1

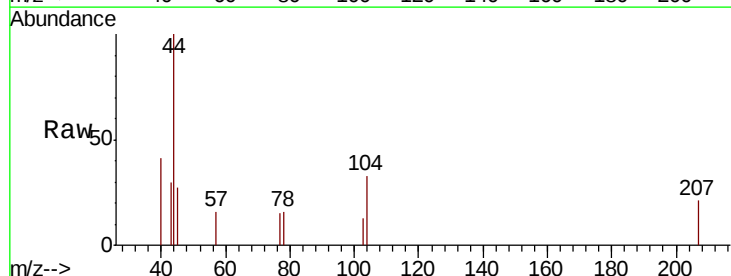


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

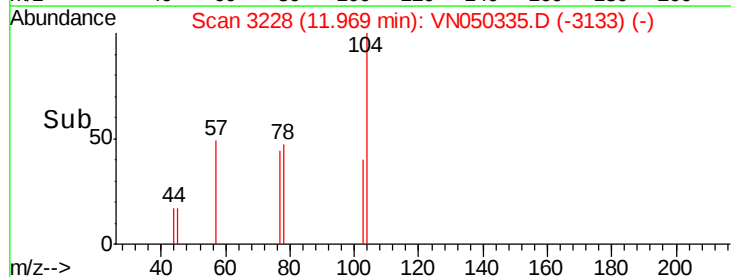
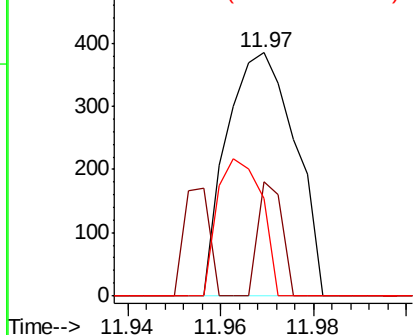


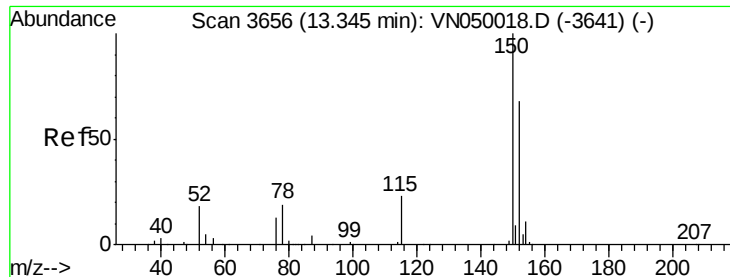
#70
Styrene
Concen: 0.94 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.00 min
Lab File: VN050335.D
Acq: 4 Aug 2018 1:20

Tgt Ion:104 Resp: 393
Ion Ratio Lower Upper
104 100
78 16.8 39.3 58.9#
103 36.6 45.0 67.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
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: VN050335.D

Acq: 4 Aug 2018 1:20

Instrument :

MSVOA_N

ClientSampleId :

PB111719ZHE#15

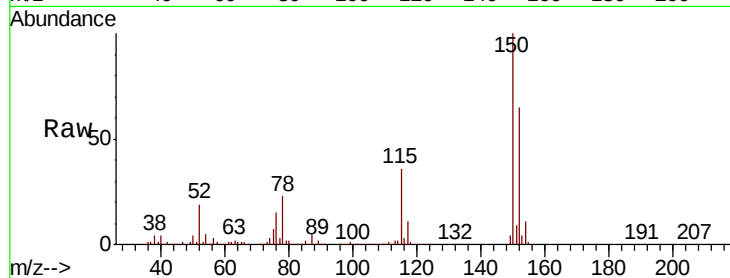
Tot Ion:152 Resp: 387690

Ion Ratio Lower Upper

152 100

115 55.8 27.8 83.3

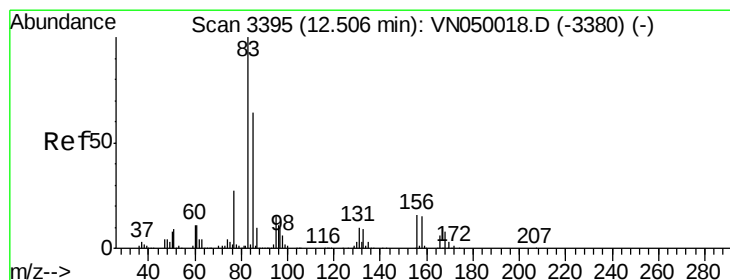
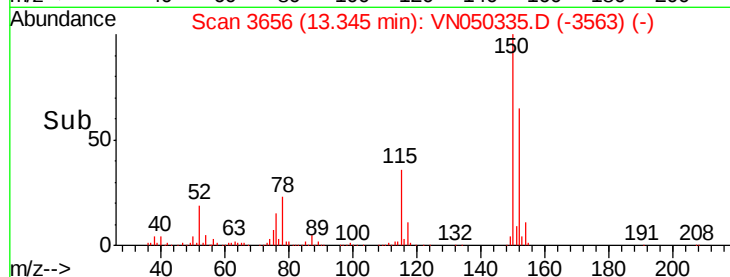
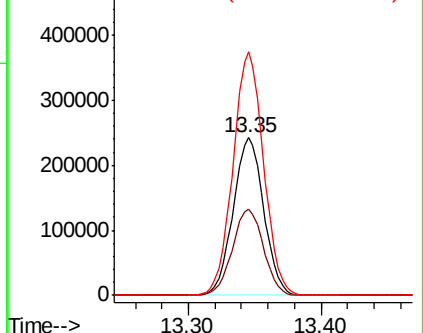
150 154.2 0.0 348.6



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# 3362

Delta R.T. -0.11 min

Lab File: VN050335.D

Acq: 4 Aug 2018 1:20

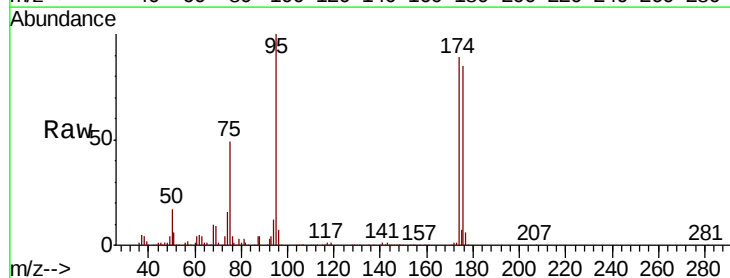
Tgt Ion: 83 Resp: 501

Ion Ratio Lower Upper

83 100

131 135.5 5.1 15.3#

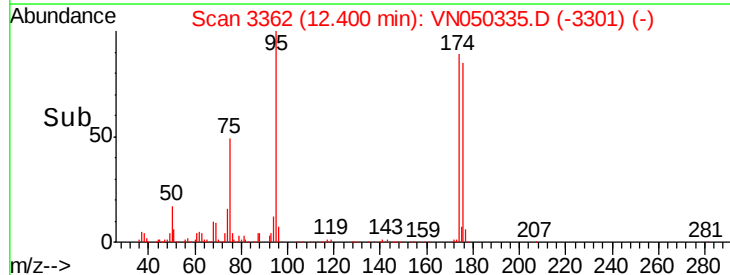
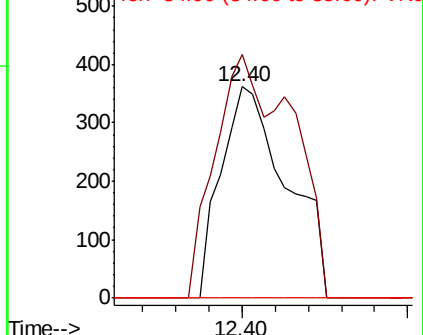
85 0.0 32.3 96.8#

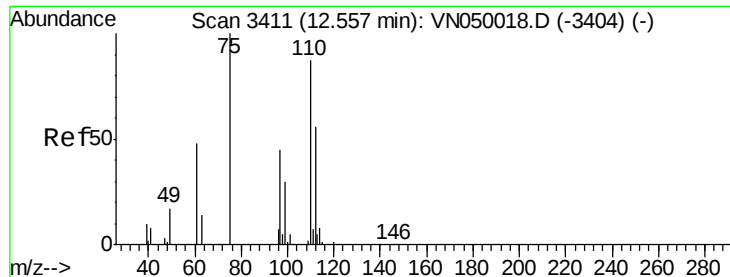


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 29.74 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050335.D

Acq: 4 Aug 2018 1:20

Instrument :

MSVOA_N

ClientSampleId :

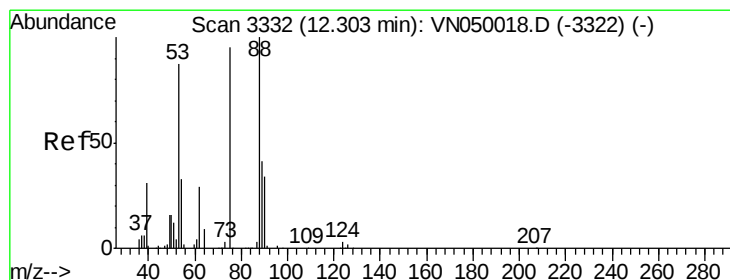
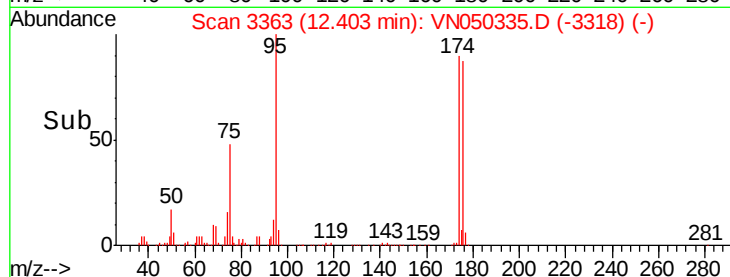
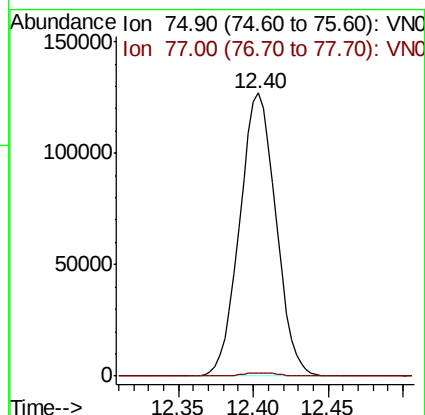
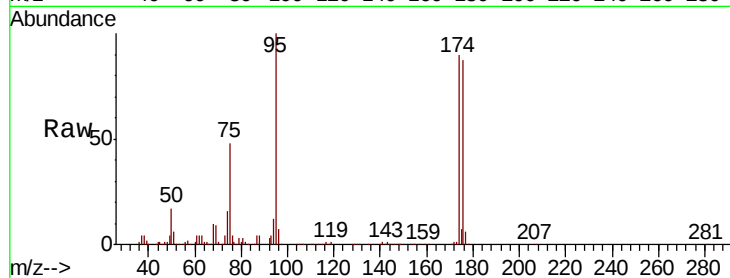
PB111719ZHE#15

Tot Ion: 75 Resp: 214269

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 94.33 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050335.D

Acq: 4 Aug 2018 1:20

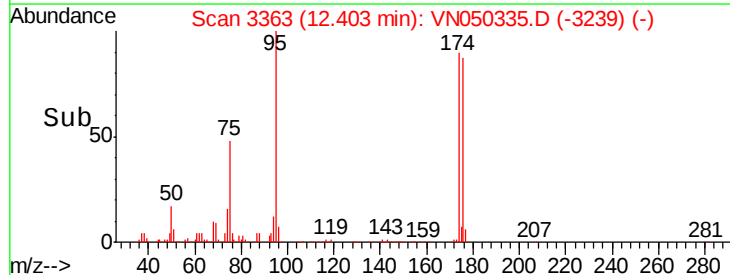
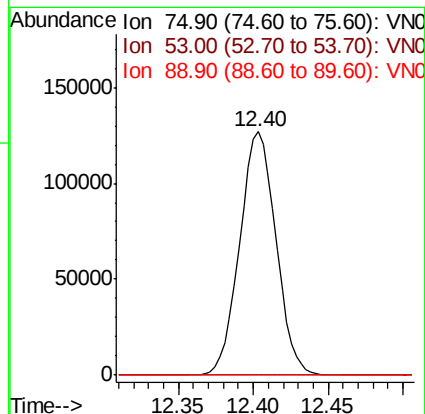
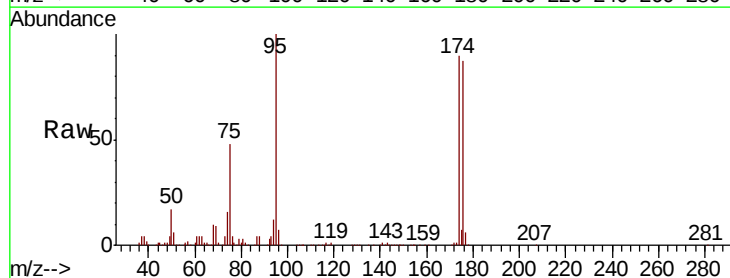
Tgt Ion: 75 Resp: 214269

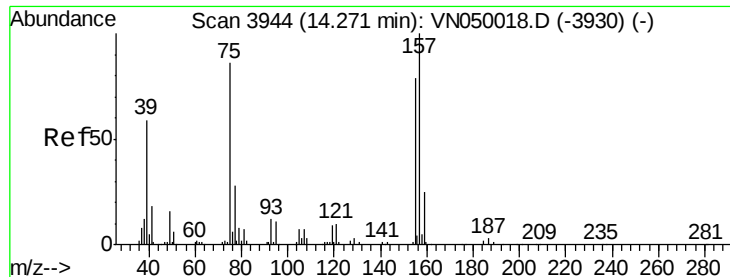
Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

89 0.0 36.0 54.0#

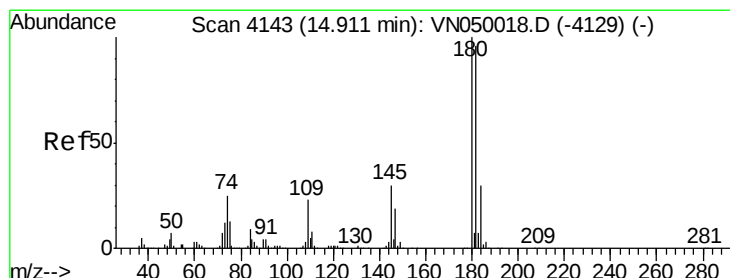
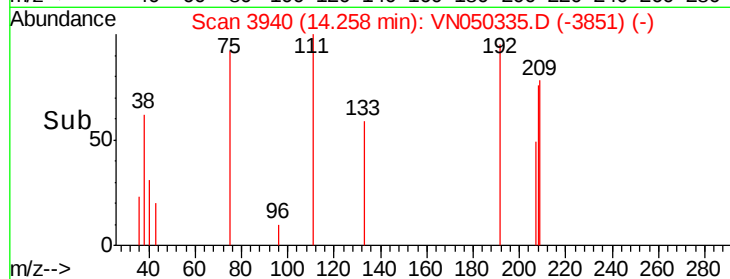
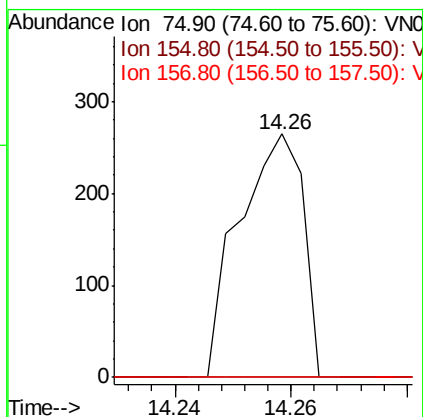
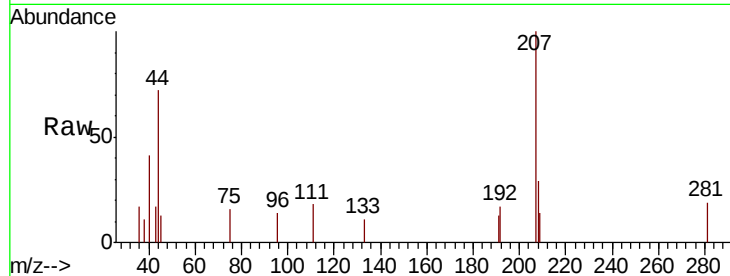




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.26 min Scan# 3940
 Delta R.T. -0.01 min
 Lab File: VN050335.D
 Acq: 4 Aug 2018 1:20

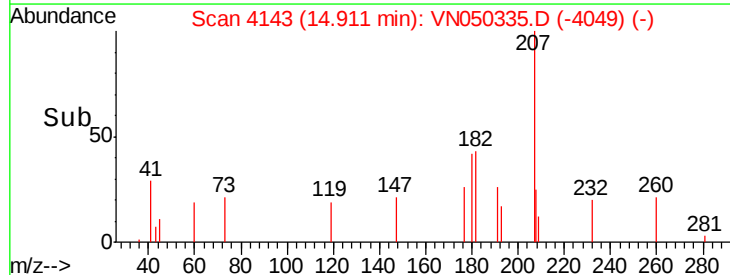
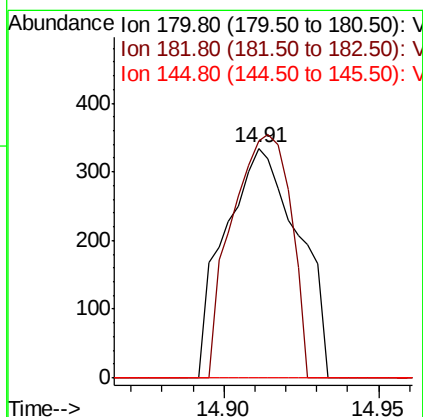
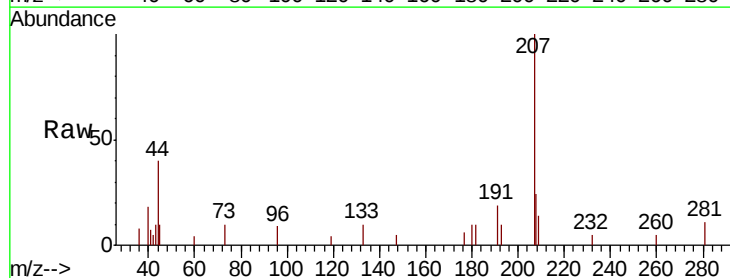
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111719ZHE#15

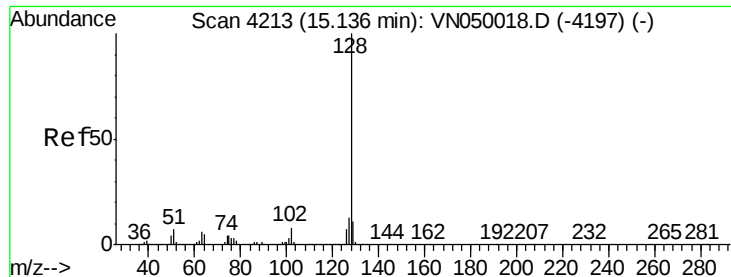
Tot Ion: 75 Resp: 202
 Ion Ratio Lower Upper
 75 100
 155 0.0 44.8 134.4#
 157 0.0 57.2 171.6#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.16 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050335.D
 Acq: 4 Aug 2018 1:20

Tgt Ion: 180 Resp: 553
 Ion Ratio Lower Upper
 180 100
 182 84.8 46.7 140.1
 145 0.0 13.8 41.4#





#95

Naphthalene

Concen: 4.46 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN050335.D

Acq: 4 Aug 2018 1:20

Instrument :

MSVOA_N

ClientSampleId :

PB111719ZHE#15

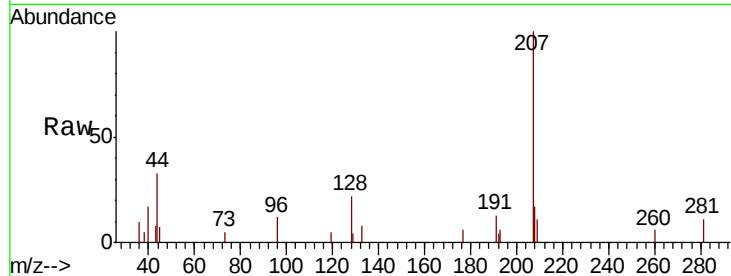
Tot Ion:128 Resp: 814

Ion Ratio Lower Upper

128 100

127 3.8 10.4 15.6#

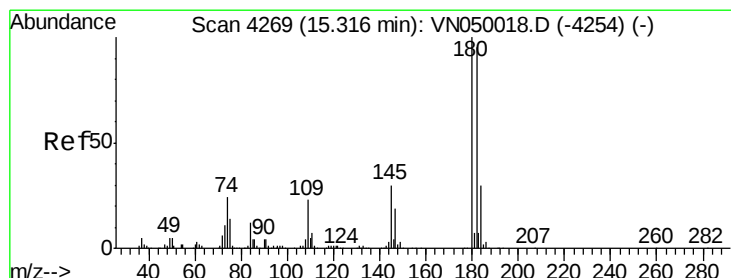
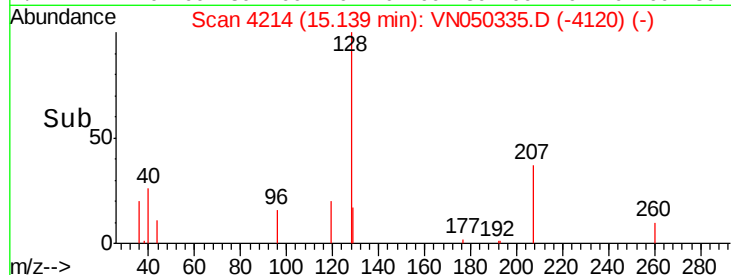
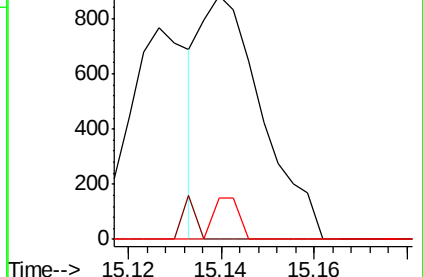
129 7.1 8.8 13.2#



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: 2.24 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. -0.01 min

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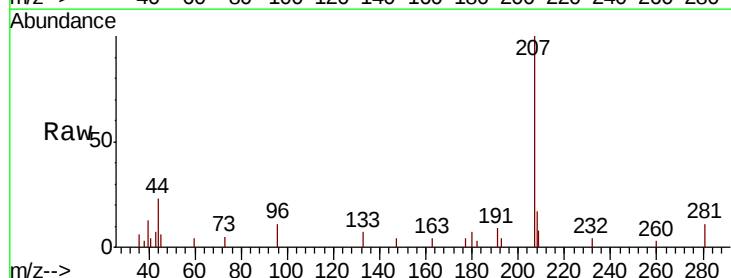
Tgt Ion:180 Resp: 255

Ion Ratio Lower Upper

180 100

182 35.7 48.1 144.4#

145 0.0 15.3 45.9#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

