

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080218\
 Data File : VN050263.D
 Acq On : 2 Aug 2018 14:54
 Operator : MD\SY
 Sample : PB111674ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#01

Quant Time: Aug 03 01:13:30 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	681300	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1112851	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	947119	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	343011	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	479809	50.48	ug/l	0.00
Spiked Amount			Recovery	=	100.96%	
35) Dibromofluoromethane	7.60	113	422501	46.50	ug/l	0.00
Spiked Amount			Recovery	=	93.00%	
50) Toluene-d8	10.09	98	1516115	45.39	ug/l	0.00
Spiked Amount			Recovery	=	90.78%	
62) 4-Bromofluorobenzene	12.40	95	419146	38.11	ug/l	0.00
Spiked Amount			Recovery	=	76.22%	

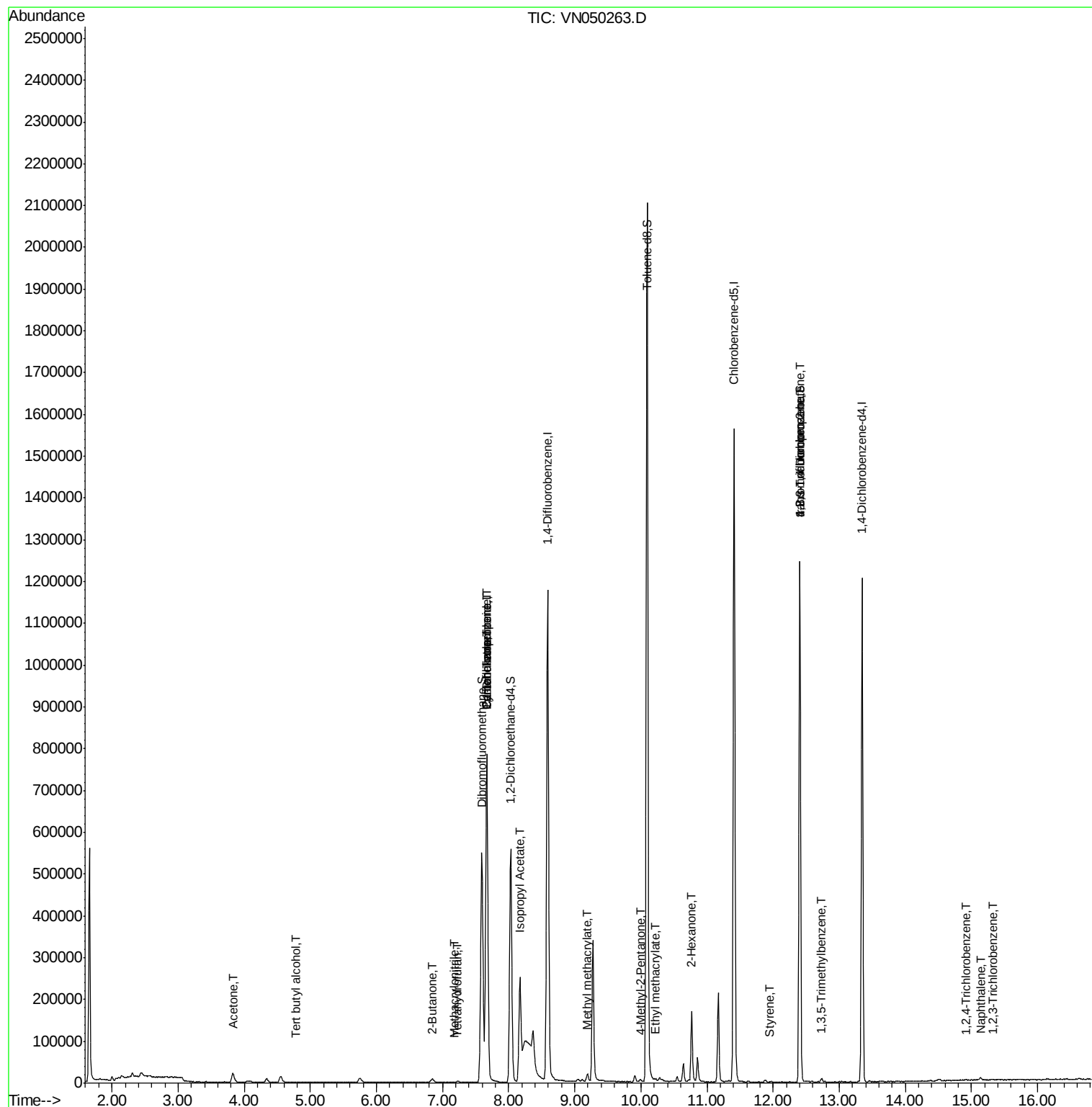
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1234	Below Cal		84
11) Tert butyl alcohol	4.79	59	238	0.34	ug/l #	72
16) Acetone	3.82	43	37119	12.45	ug/l	100
25) 2-Butanone	6.84	43	6806	1.88	ug/l #	88
29) Tetrahydrofuran	7.23	42	1166	0.50	ug/l #	85
31) Cyclohexane	7.67	56	12528	0.89	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47208	3.77	ug/l #	48
38) Carbon Tetrachloride	7.67	117	61415	4.62	ug/l #	16
41) Methacrylonitrile	7.18	41	30	2.75	ug/l #	10
43) Isopropyl Acetate	8.17	43	311942	18.21	ug/l	98
48) Methyl methacrylate	9.18	41	10063	1.34	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	4143	0.48	ug/l	91
56) Ethyl methacrylate	10.22	69	3171	2.28	ug/l	95
59) 2-Hexanone	10.77	43	25093	9.07	ug/l #	57
70) Styrene	11.96	104	303	0.94	ug/l #	72
75) 1,1,2,2-Tetrachloroethane	12.40	83	191	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	201061	31.54	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4343	0.21	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	201061	100.04	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.25	75	215	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	1022	3.23	ug/l #	77
95) Naphthalene	15.14	128	6023	4.77	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.32	180	783	2.32	ug/l #	87

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050263.D

Acq: 2 Aug 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

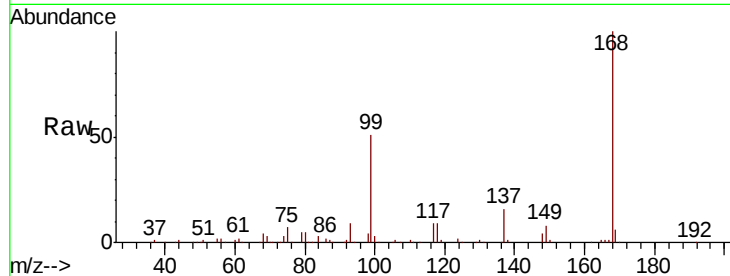
PB111674ZHE#01

Tot Ion:168 Resp: 681300

Ion Ratio Lower Upper

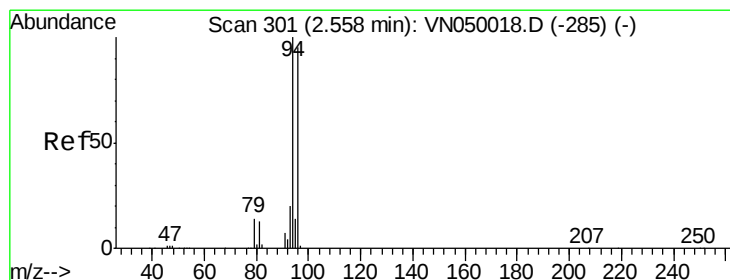
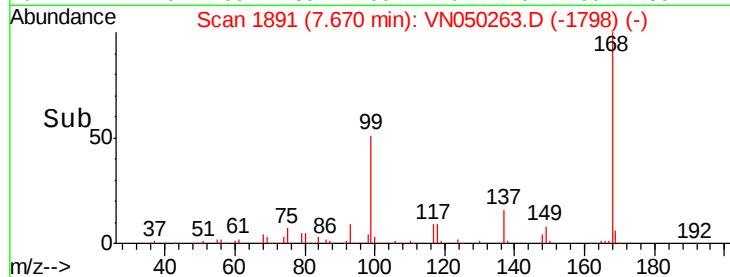
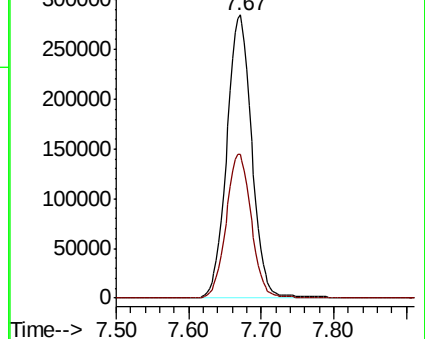
168 100

99 50.8 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.02 min

Lab File: VN050263.D

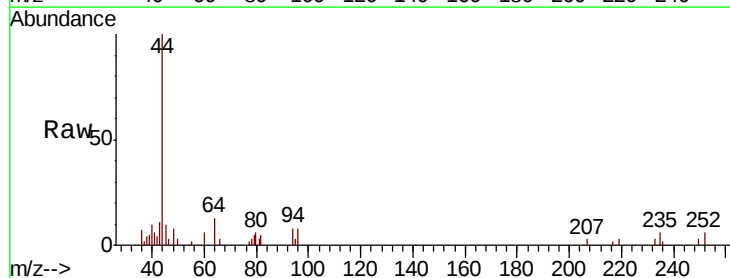
Acq: 2 Aug 2018 14:54

Tgt Ion: 94 Resp: 1234

Ion Ratio Lower Upper

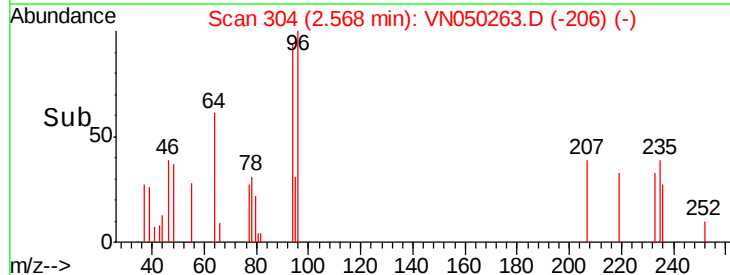
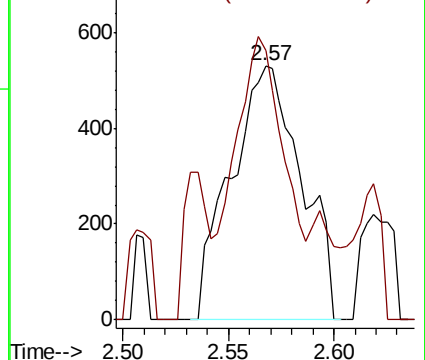
94 100

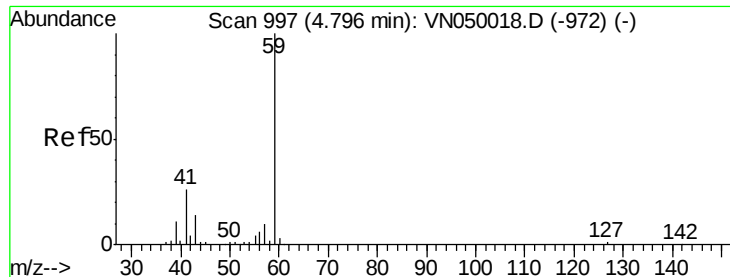
96 77.8 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

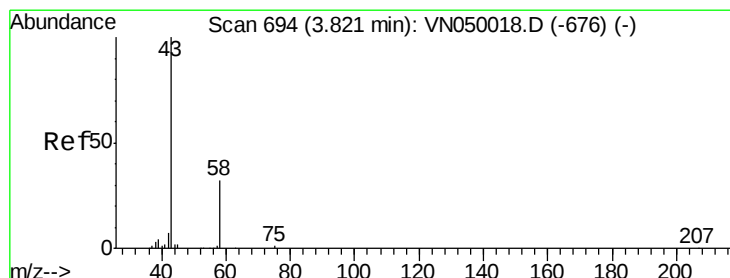
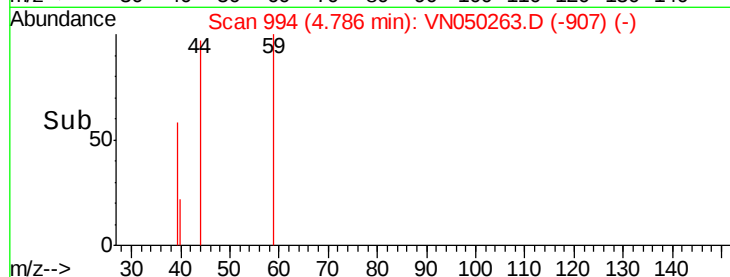
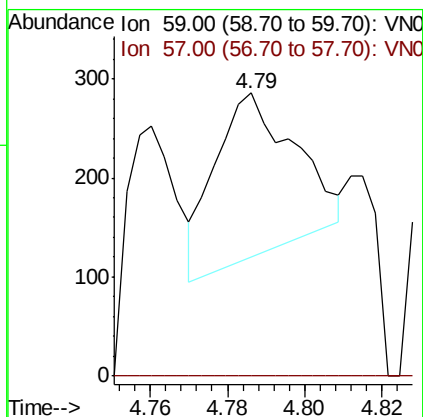
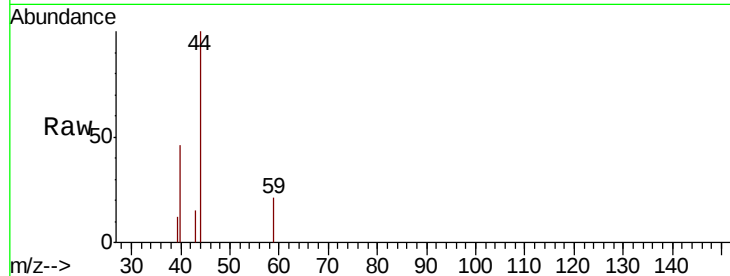




#11
Tert butyl alcohol
Concen: 0.34 ug/l
RT: 4.79 min Scan# 994
Delta R.T. -0.02 min
Lab File: VN050263.D
Acq: 2 Aug 2018 14:54

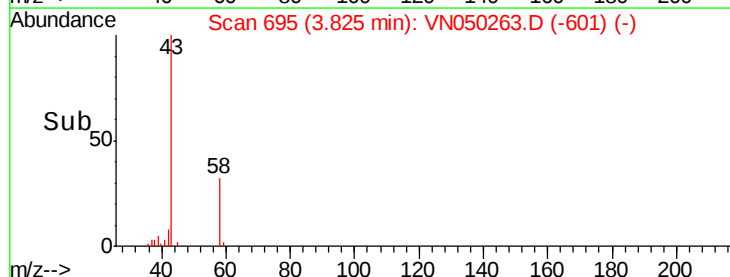
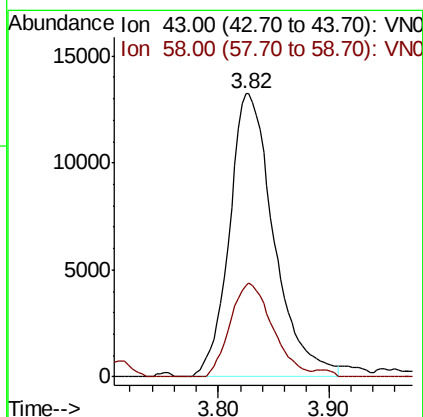
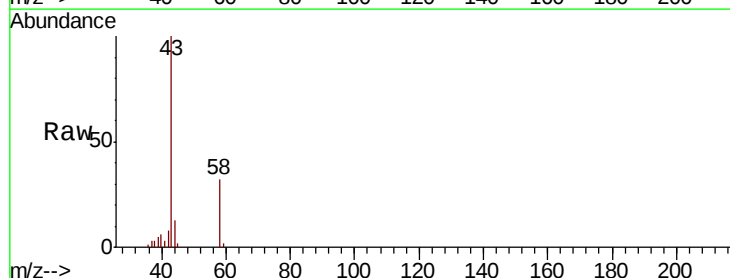
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#01

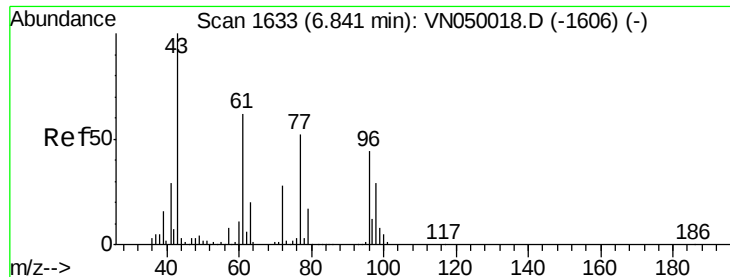
Tot Ion: 59 Resp: 238
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 12.45 ug/l
RT: 3.82 min Scan# 695
Delta R.T. 0.00 min
Lab File: VN050263.D
Acq: 2 Aug 2018 14:54

Tgt Ion: 43 Resp: 37119
Ion Ratio Lower Upper
43 100
58 32.2 25.8 38.8





#25

2-Butanone

Concen: 1.88 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN050263.D

Acq: 2 Aug 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

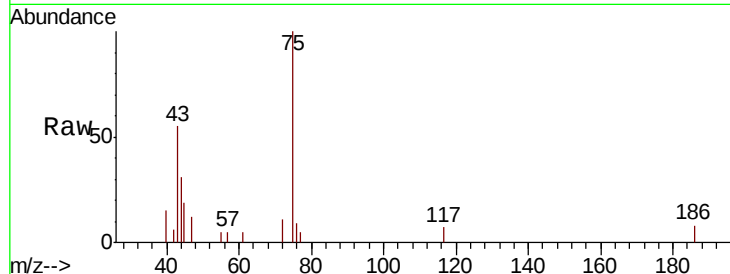
PB111674ZHE#01

Tot Ion: 43 Resp: 6806

Ion Ratio Lower Upper

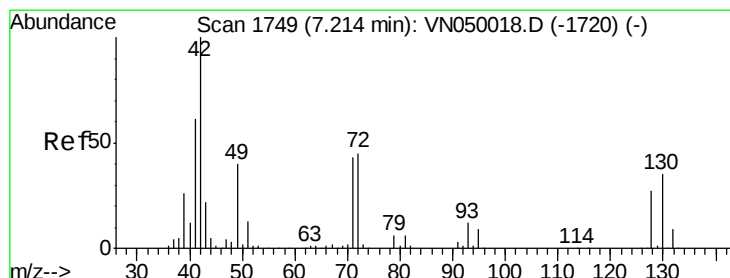
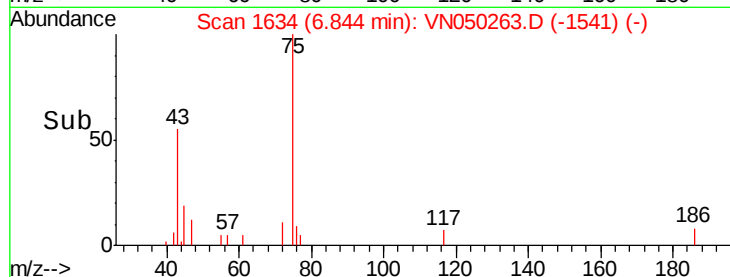
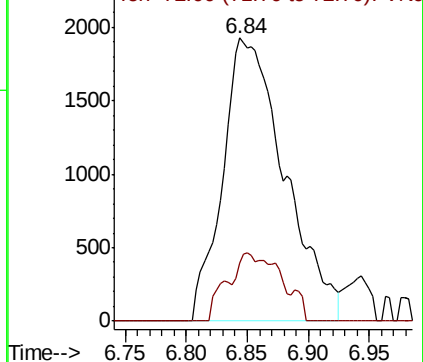
43 100

72 20.4 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.50 ug/l

RT: 7.23 min Scan# 1753

Delta R.T. 0.01 min

Lab File: VN050263.D

Acq: 2 Aug 2018 14:54

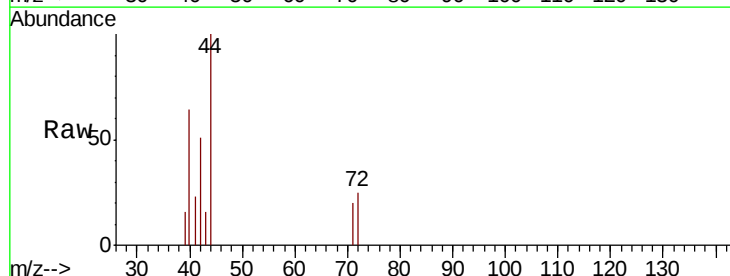
Tgt Ion: 42 Resp: 1166

Ion Ratio Lower Upper

42 100

72 32.2 35.9 53.9#

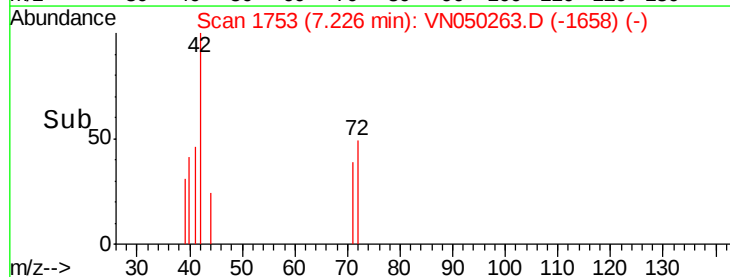
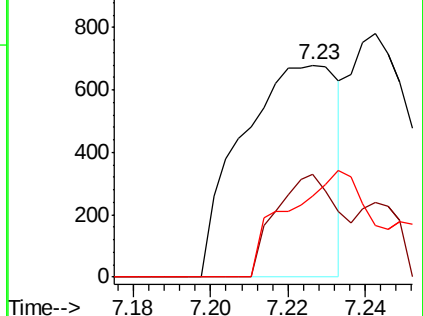
71 49.1 33.7 50.5

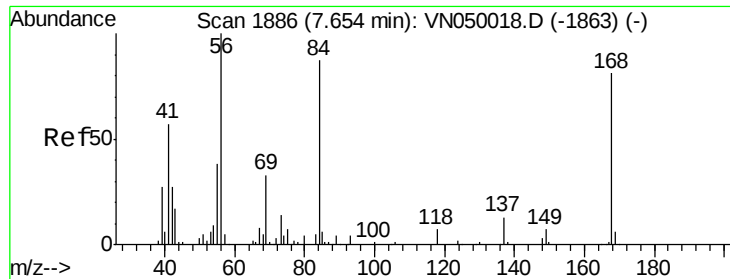


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

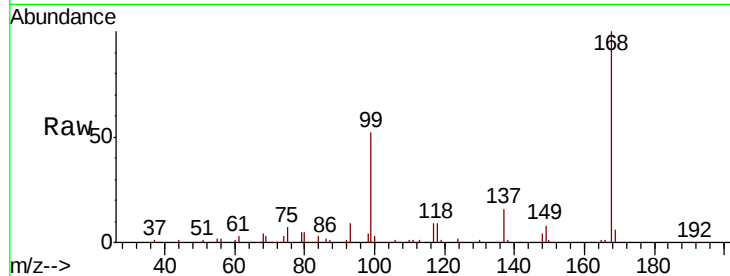




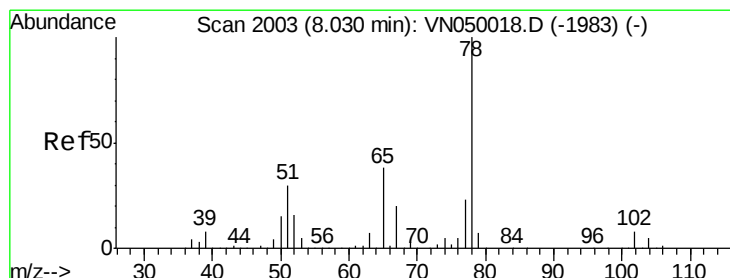
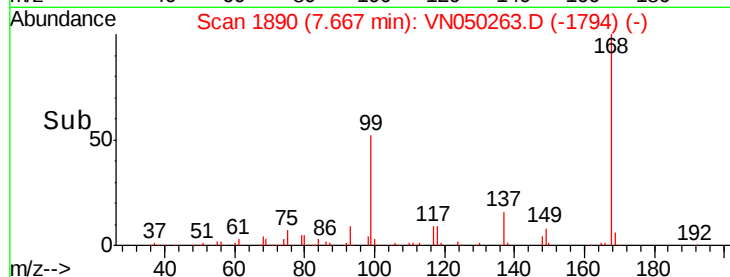
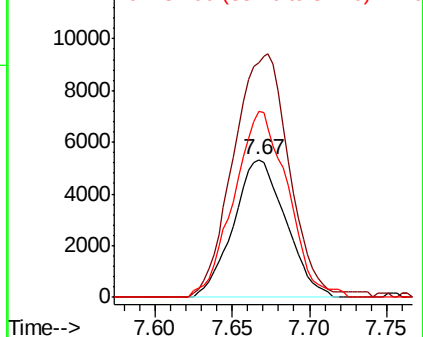
#31
Cyclohexane
Concen: 0.89 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050263.D
Acq: 2 Aug 2018 14:54

Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#01

Tot Ion: 56 Resp: 12528
Ion Ratio Lower Upper
56 100
69 170.4 26.2 39.4#
84 135.0 67.4 101.0#

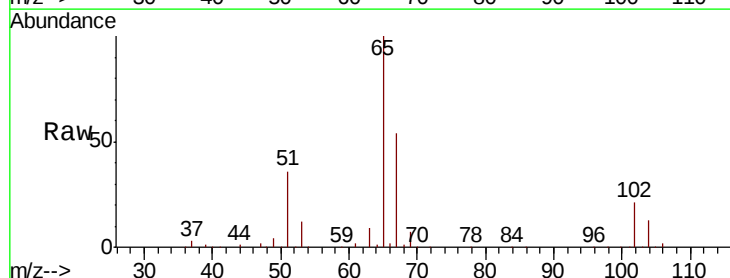


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

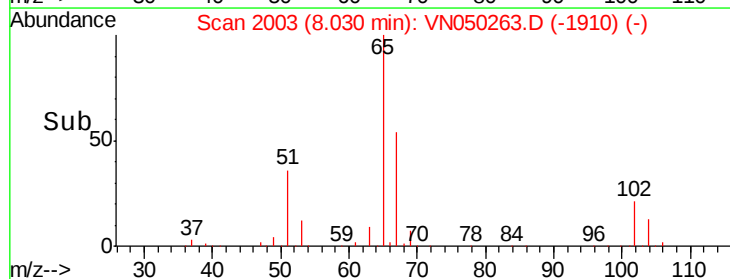
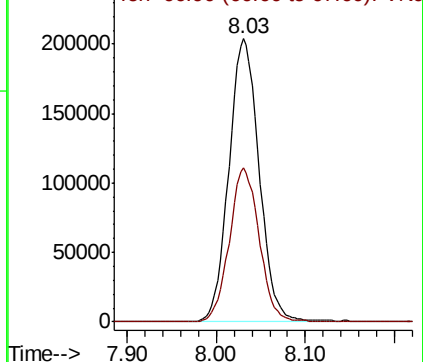


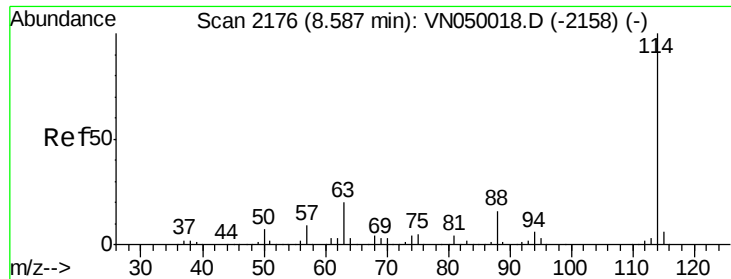
#33
1,2-Dichloroethane-d4
Concen: 50.48 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050263.D
Acq: 2 Aug 2018 14:54

Tgt Ion: 65 Resp: 479809
Ion Ratio Lower Upper
65 100
67 53.7 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

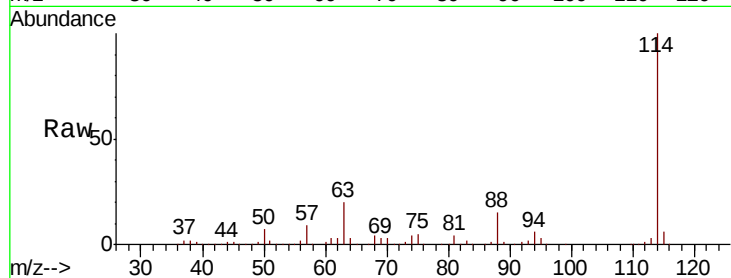




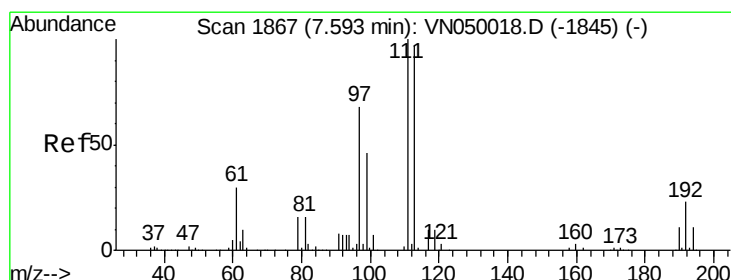
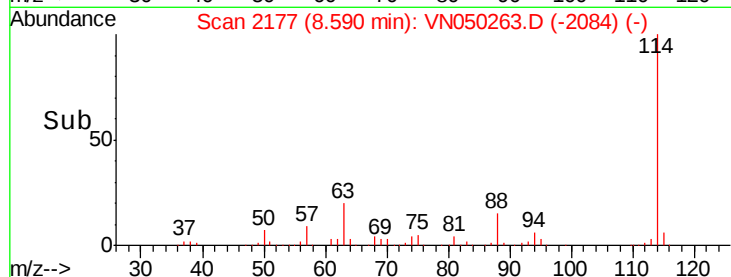
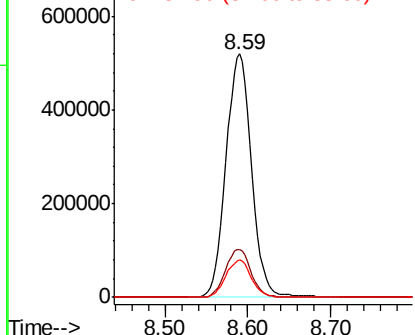
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050263.D
 Acq: 2 Aug 2018 14:54

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#01

Tot Ion:114 Resp: 1112851
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.0
 88 15.3 0.0 31.2

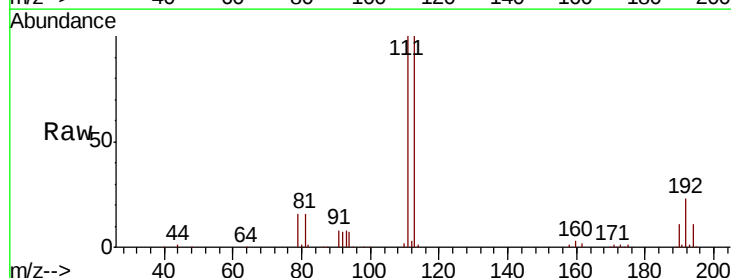


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

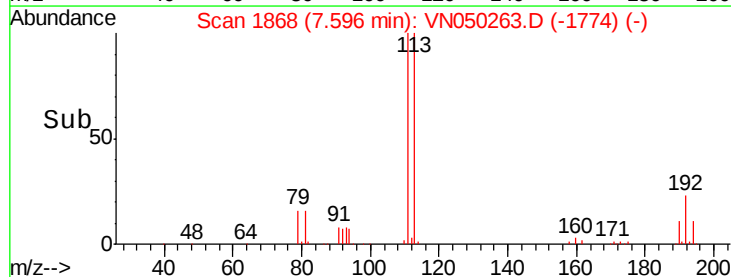
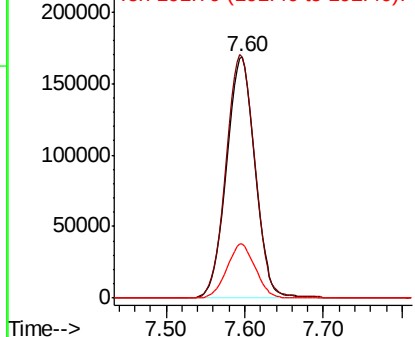


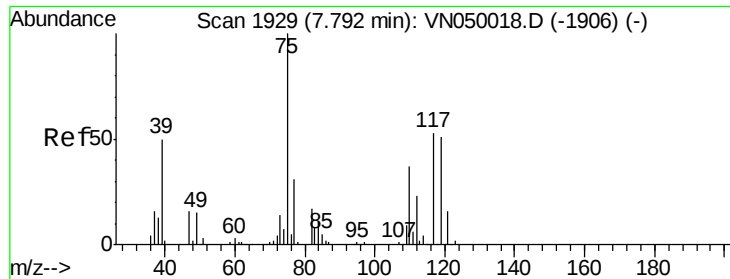
#35
 Dibromofluoromethane
 Concen: 46.50 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN050263.D
 Acq: 2 Aug 2018 14:54

Tgt Ion:113 Resp: 422501
 Ion Ratio Lower Upper
 113 100
 111 102.5 80.7 121.1
 192 22.3 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

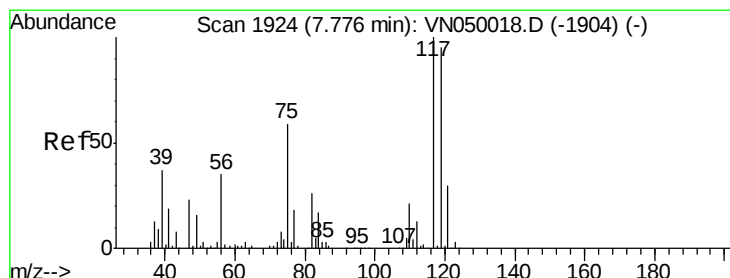
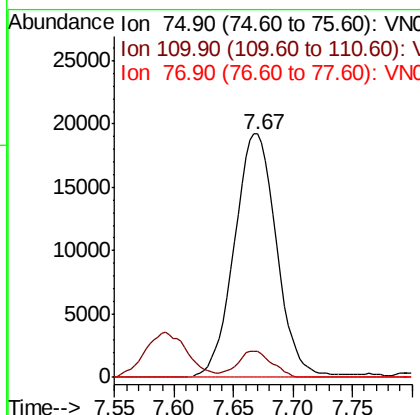
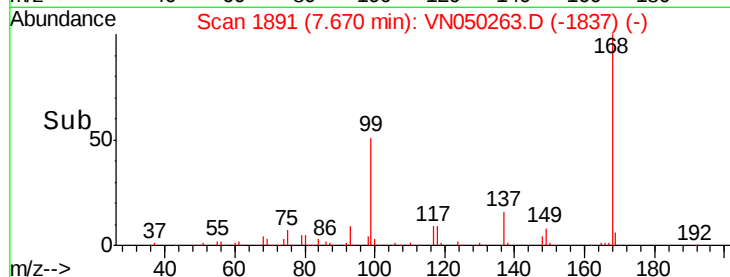
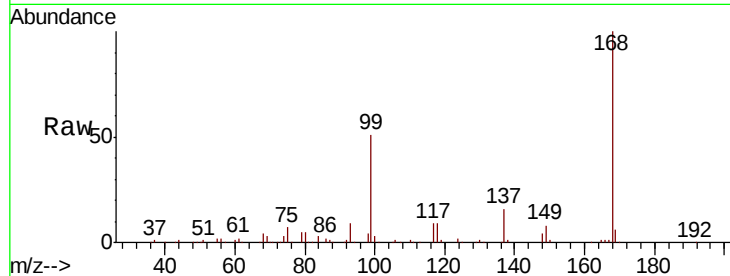




#36
 1,1-Dichloropropene
 Concen: 3.77 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050263.D
 Acq: 2 Aug 2018 14:54

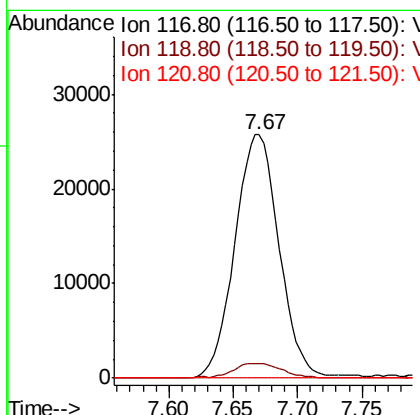
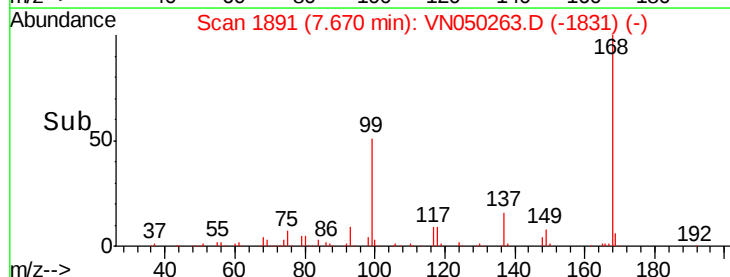
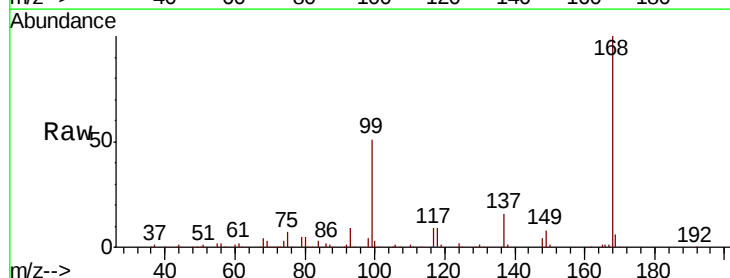
Instrument :
 MSVOA_N
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 PB111674ZHE#01

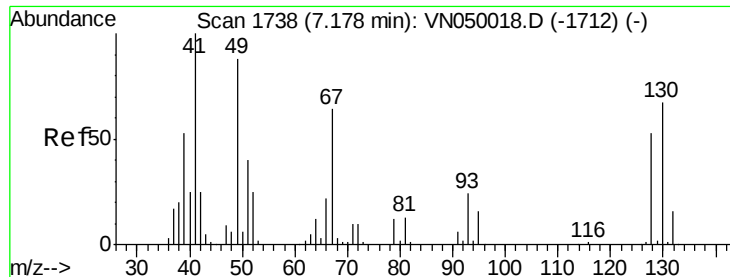
Tot Ion: 75 Resp: 47208
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.4 55.2#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 4.62 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050263.D
 Acq: 2 Aug 2018 14:54

Tgt Ion: 117 Resp: 61415
 Ion Ratio Lower Upper
 117 100
 119 6.1 77.4 116.0#
 121 0.0 23.9 35.9#

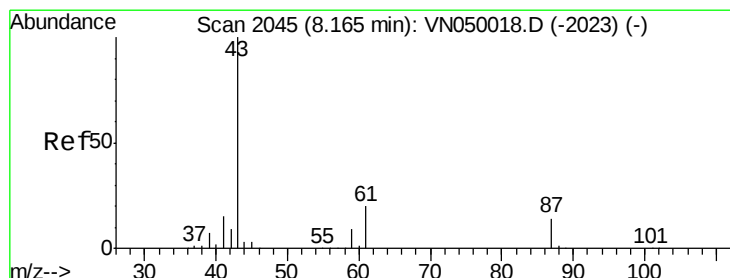
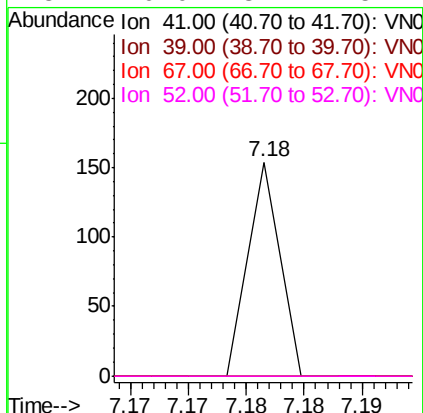
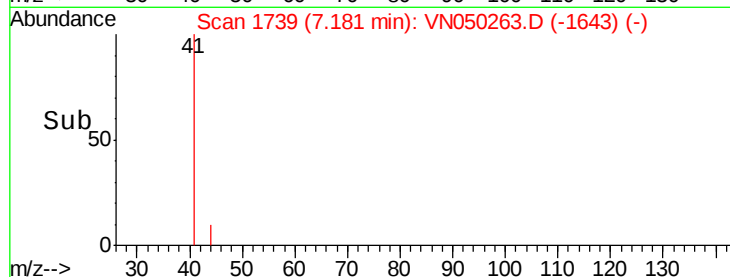
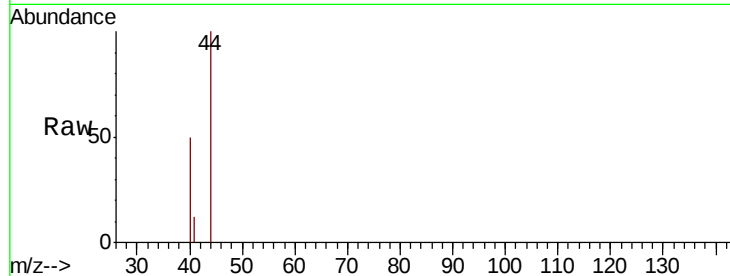




#41
Methacrylonitrile
Concen: 2.75 ug/l
RT: 7.18 min Scan# 1739
Delta R.T. 0.01 min
Lab File: VN050263.D
Acq: 2 Aug 2018 14:54

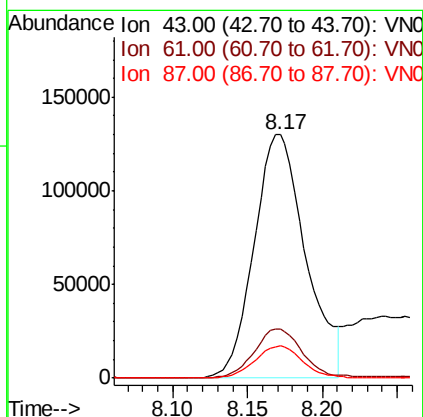
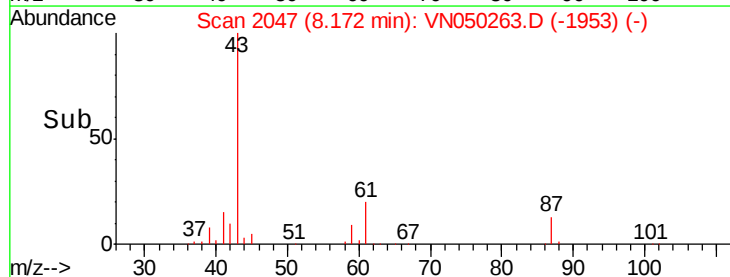
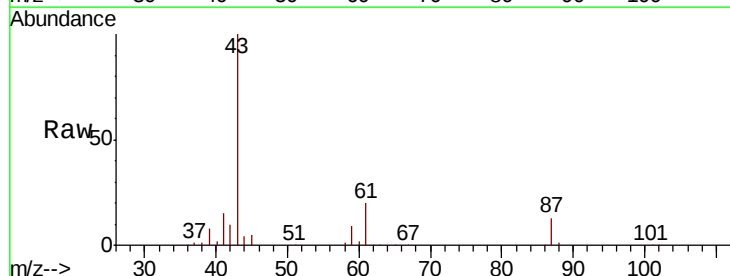
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#01

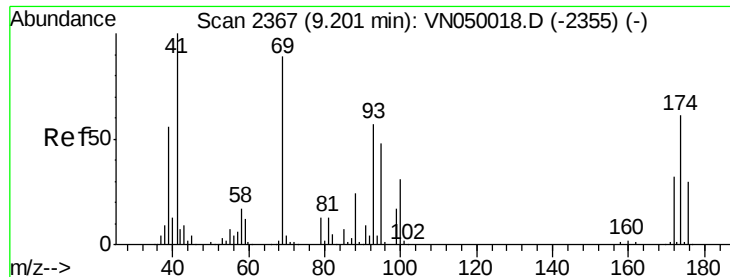
Tot Ion: 41 Resp: 30
Ion Ratio Lower Upper
41 100
39 0.0 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 18.21 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.00 min
Lab File: VN050263.D
Acq: 2 Aug 2018 14:54

Tgt Ion: 43 Resp: 311942
Ion Ratio Lower Upper
43 100
61 19.0 15.8 23.6
87 12.3 10.3 15.5

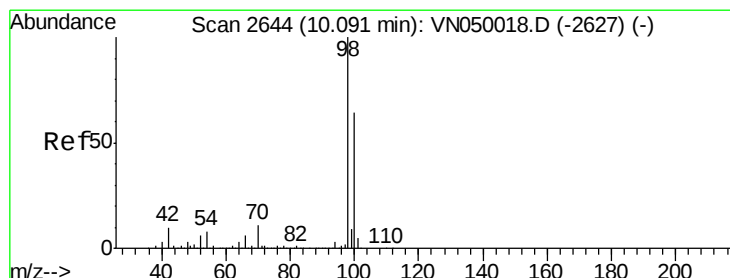
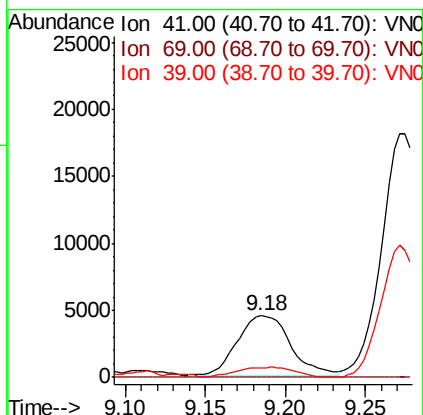
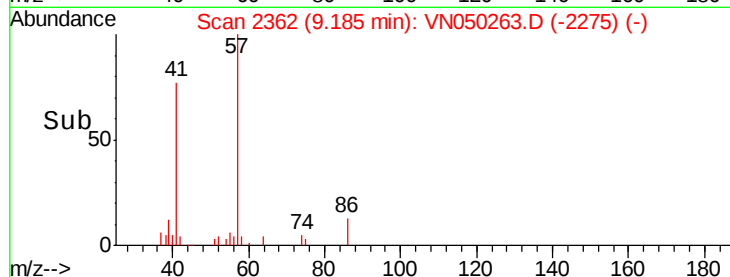
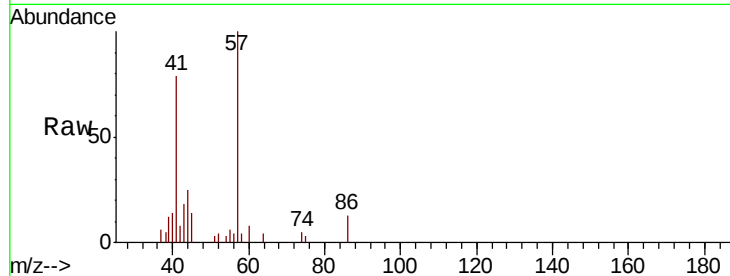




#48
Methvl methacrylate
Concen: 1.34 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050263.D
Acq: 2 Aug 2018 14:54

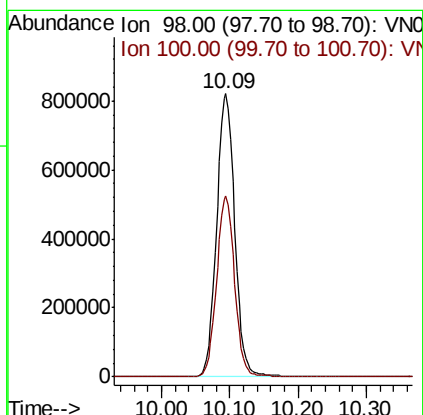
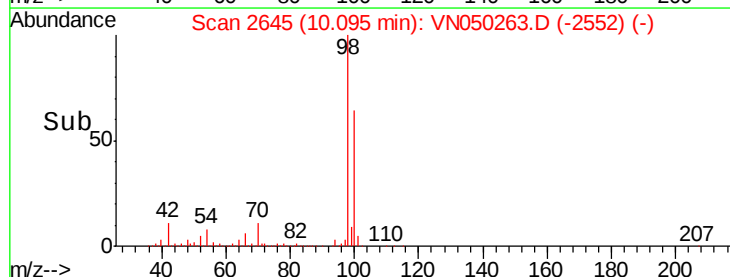
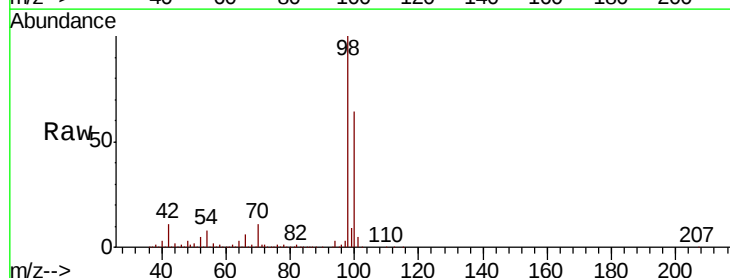
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#01

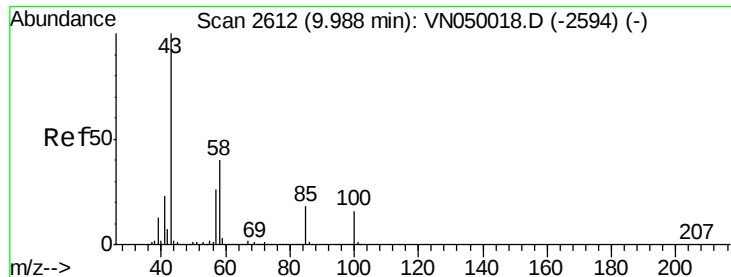
Tot Ion: 41 Resp: 10063
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 18.4 43.9 65.9#



#50
Toluene-d8
Concen: 45.39 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050263.D
Acq: 2 Aug 2018 14:54

Tgt Ion: 98 Resp: 1516115
Ion Ratio Lower Upper
98 100
100 63.3 50.7 76.1

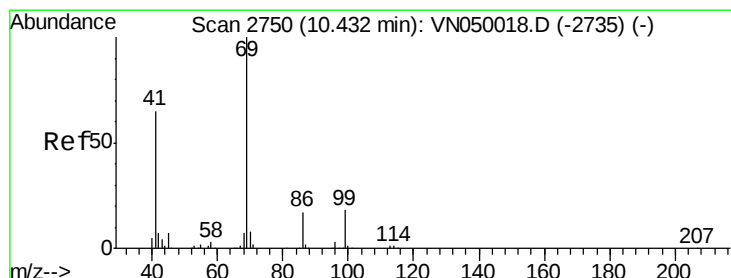
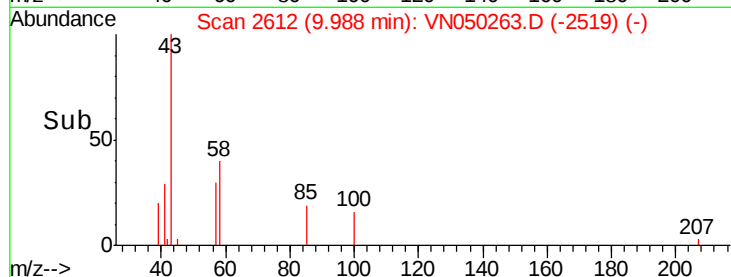
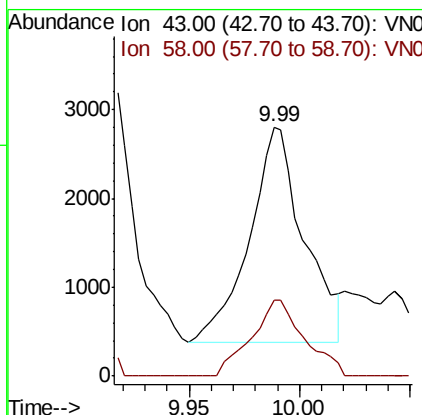
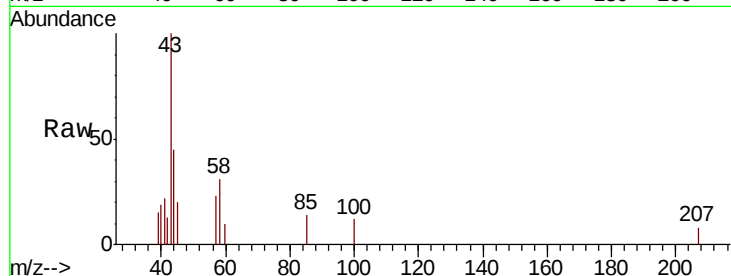




#51
4-Methyl-2-Pentanone
Concen: 0.48 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050263.D
Acq: 2 Aug 2018 14:54

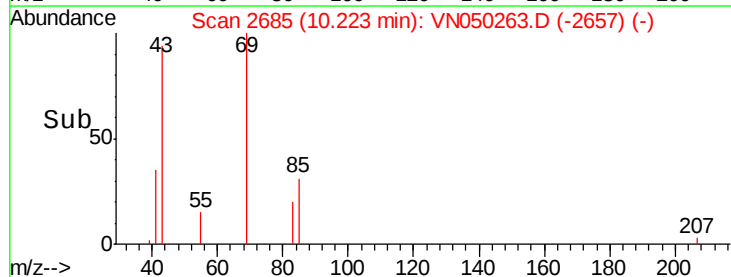
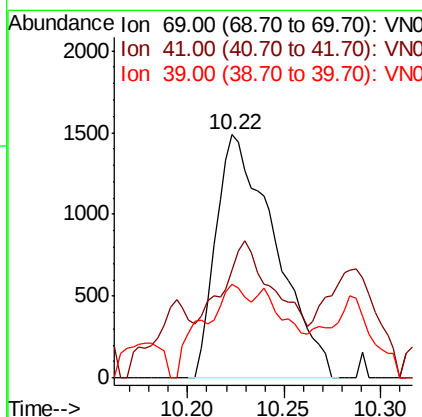
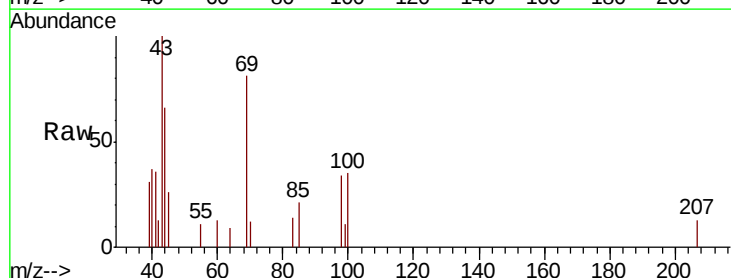
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#01

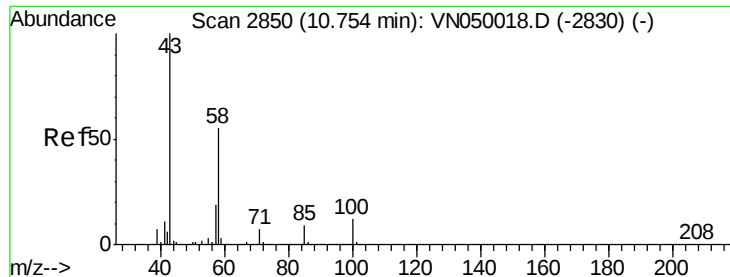
Tot Ion: 43 Resp: 4143
Ion Ratio Lower Upper
43 100
58 34.5 31.9 47.9



#56
Ethyl methacrylate
Concen: 2.28 ug/l
RT: 10.22 min Scan# 2685
Delta R.T. -0.21 min
Lab File: VN050263.D
Acq: 2 Aug 2018 14:54

Tgt Ion: 69 Resp: 3171
Ion Ratio Lower Upper
69 100
41 60.0 51.0 76.4
39 29.8 26.6 40.0





#59

2-Hexanone

Concen: 9.07 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050263.D

Acq: 2 Aug 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

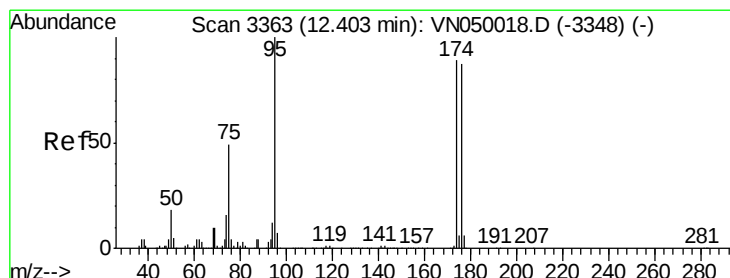
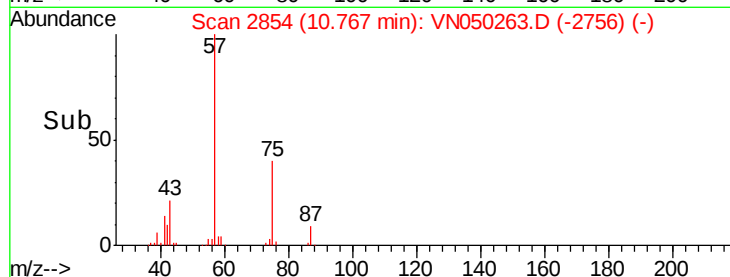
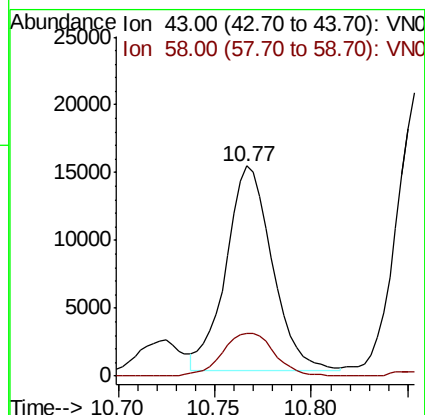
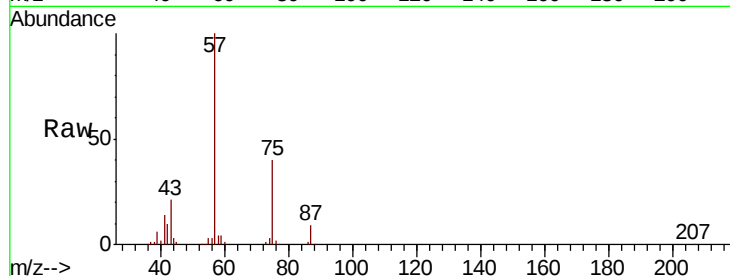
PB111674ZHE#01

Tot Ion: 43 Resp: 25093

Ion Ratio Lower Upper

43 100

58 23.7 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 38.11 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050263.D

Acq: 2 Aug 2018 14:54

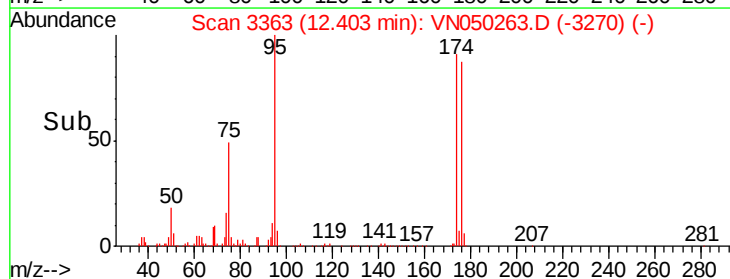
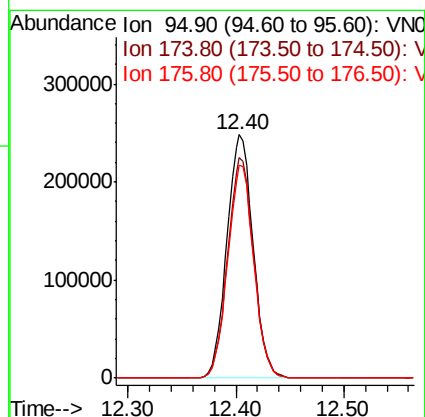
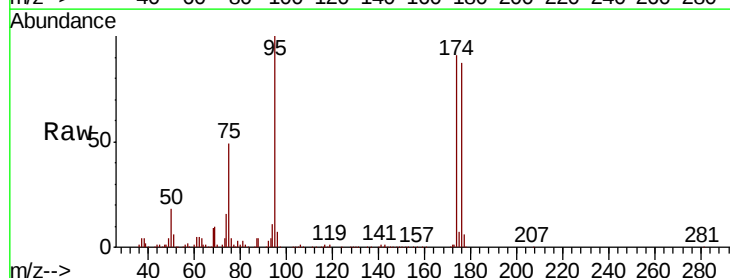
Tgt Ion: 95 Resp: 419146

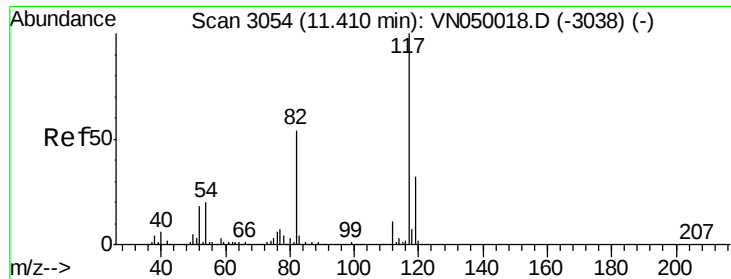
Ion Ratio Lower Upper

95 100

174 90.0 0.0 178.2

176 87.0 0.0 173.4

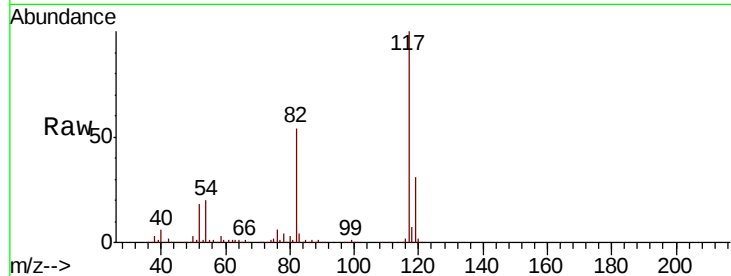




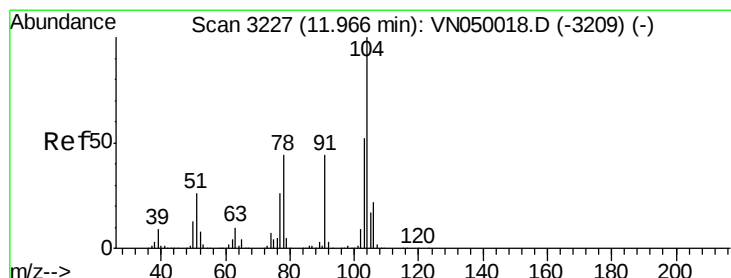
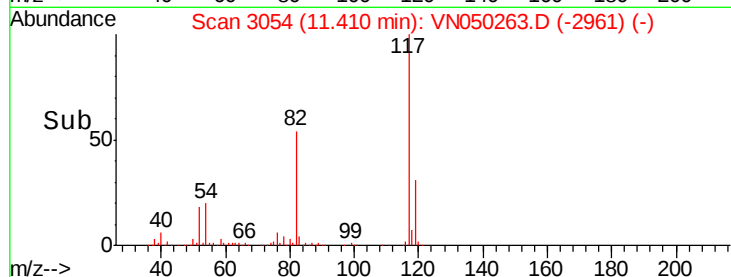
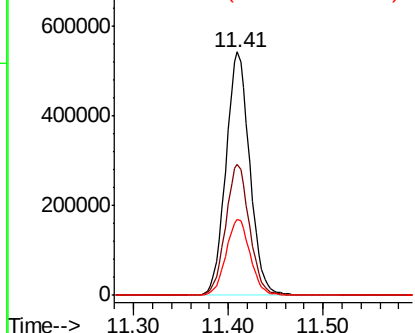
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050263.D
Acq: 2 Aug 2018 14:54

Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#01

Tot Ion:117 Resp: 947119
Ion Ratio Lower Upper
117 100
82 54.1 43.7 65.5
119 31.3 26.1 39.1

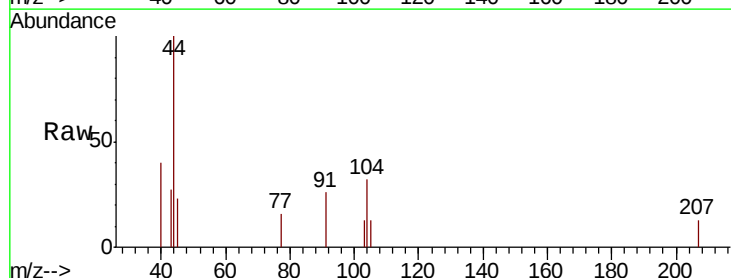


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

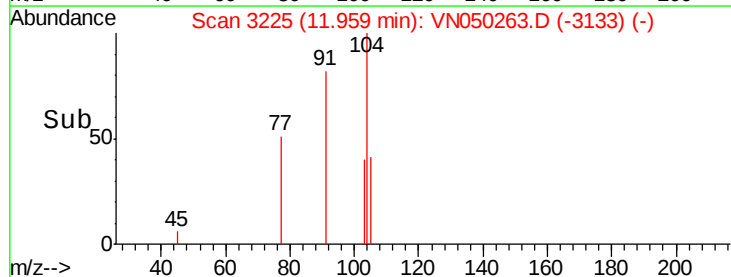
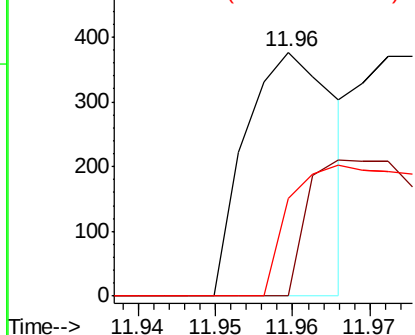


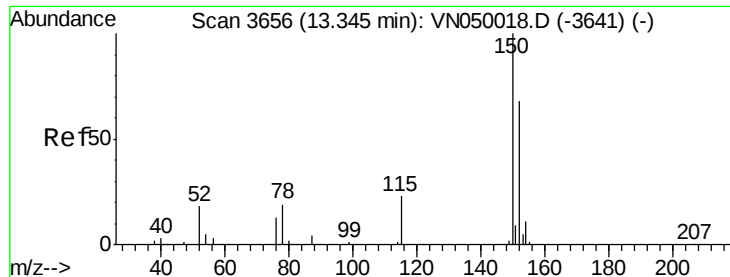
#70
Styrene
Concen: 0.94 ug/l
RT: 11.96 min Scan# 3225
Delta R.T. -0.01 min
Lab File: VN050263.D
Acq: 2 Aug 2018 14:54

Tgt Ion:104 Resp: 303
Ion Ratio Lower Upper
104 100
78 62.7 39.3 58.9#
103 81.5 45.0 67.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN0
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: VN050263.D

Acq: 2 Aug 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#01

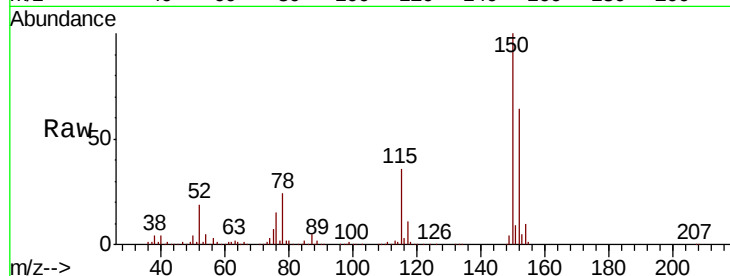
Tot Ion:152 Resp: 343011

Ion Ratio Lower Upper

152 100

115 56.3 27.8 83.3

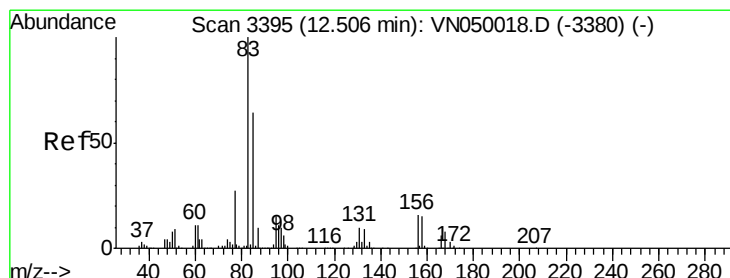
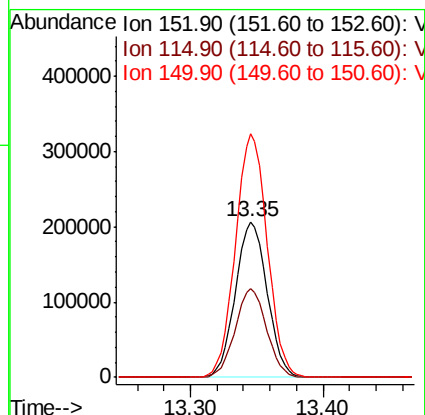
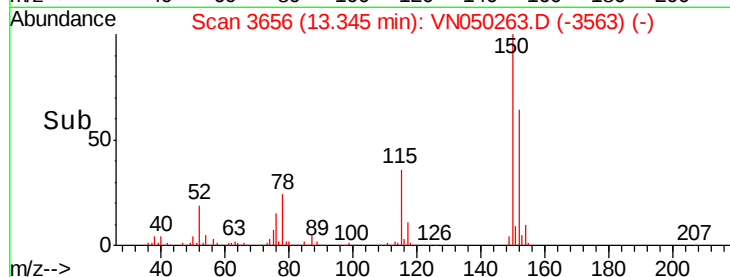
150 156.4 0.0 348.6



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# 3361

Delta R.T. -0.11 min

Lab File: VN050263.D

Acq: 2 Aug 2018 14:54

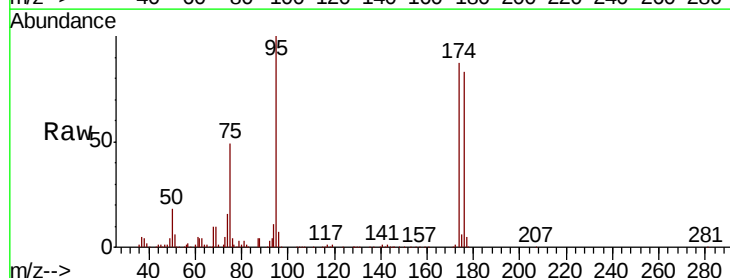
Tgt Ion: 83 Resp: 191

Ion Ratio Lower Upper

83 100

131 237.2 5.1 15.3#

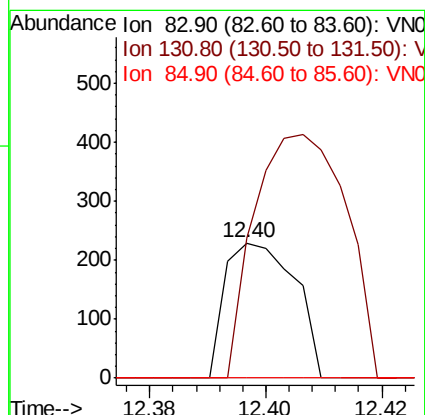
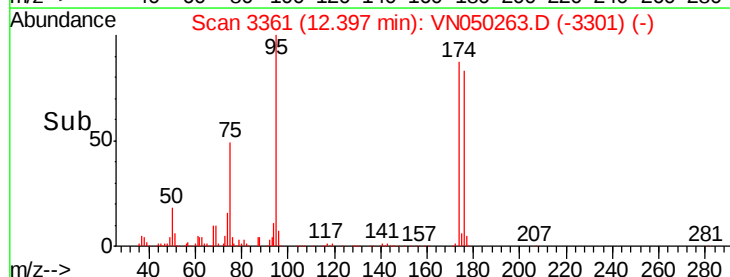
85 0.0 32.3 96.8#

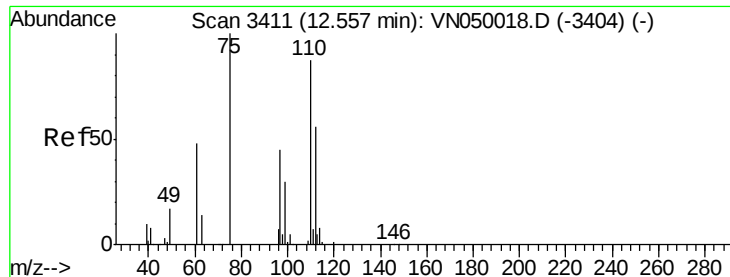


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 31.54 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050263.D

Acq: 2 Aug 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

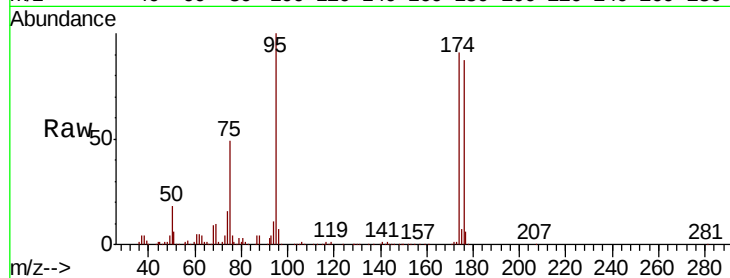
PB111674ZHE#01

Tot Ion: 75 Resp: 201061

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) (-)

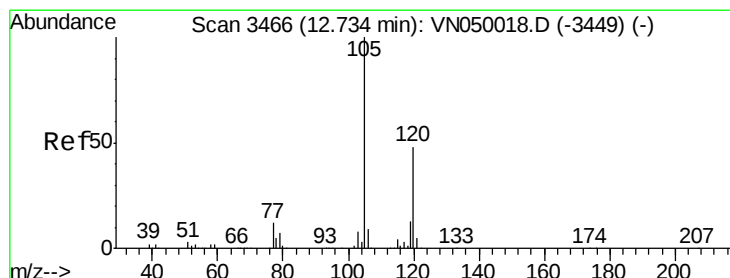
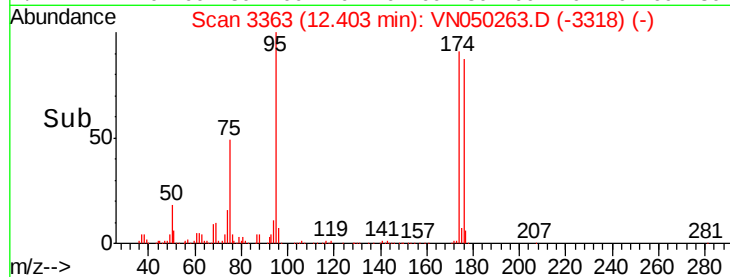
12.40

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.21 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050263.D

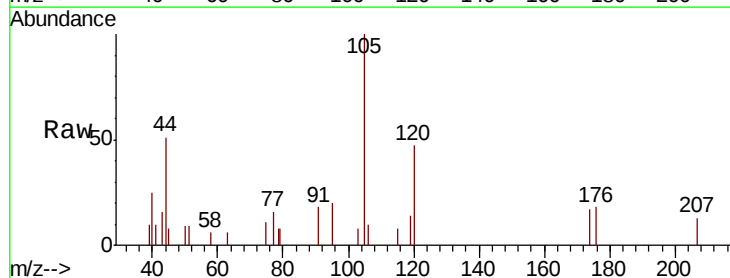
Acq: 2 Aug 2018 14:54

Tgt Ion: 105 Resp: 4343

Ion Ratio Lower Upper

105 100

120 49.7 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) (-)

12.73

3000

2500

2000

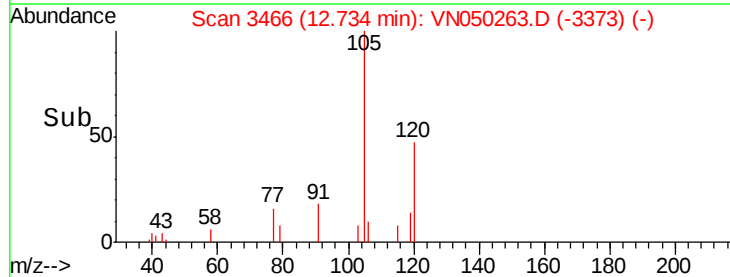
1500

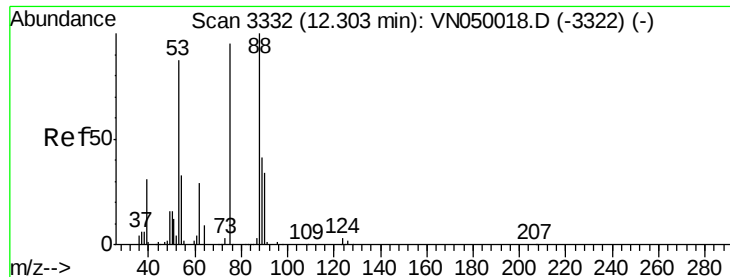
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 100.04 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050263.D

Acq: 2 Aug 2018 14:54

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#01

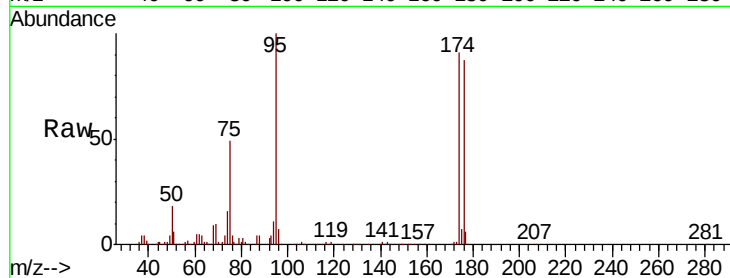
Tot Ion: 75 Resp: 201061

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

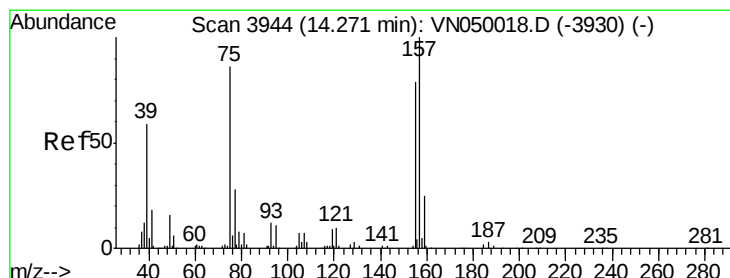
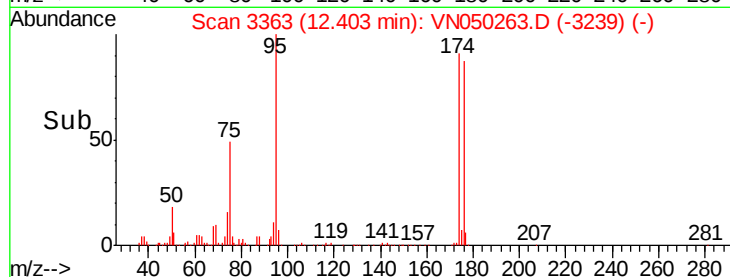
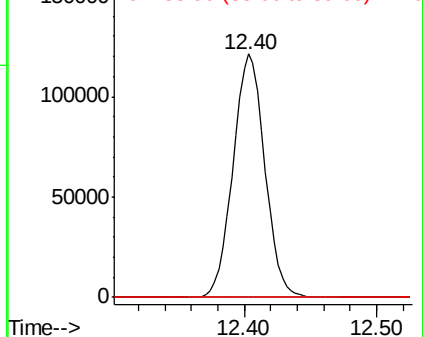
89 0.0 36.0 54.0#



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: 14.25 min Scan# 3937

Delta R.T. -0.02 min

Lab File: VN050263.D

Acq: 2 Aug 2018 14:54

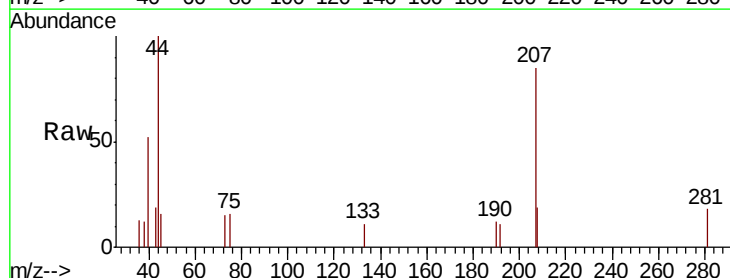
Tgt Ion: 75 Resp: 215

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

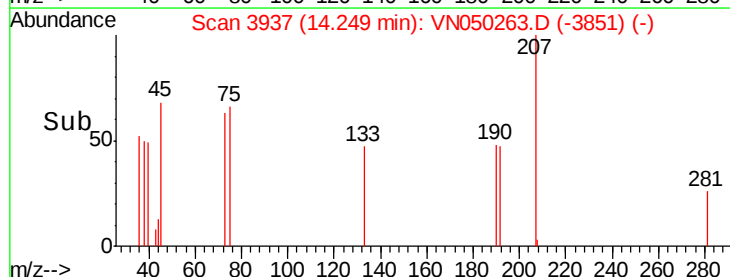
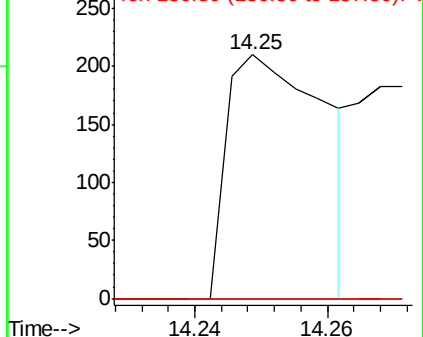
157 0.0 57.2 171.6#

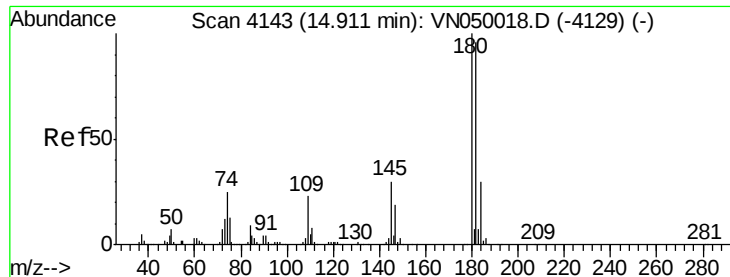


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

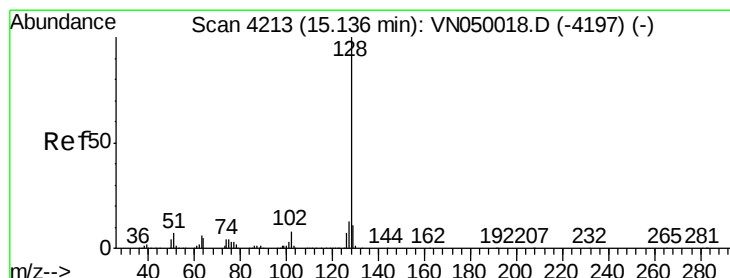
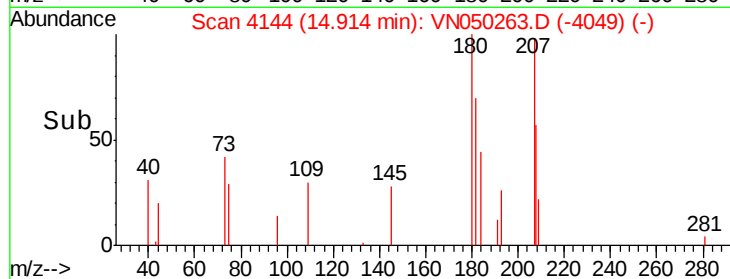
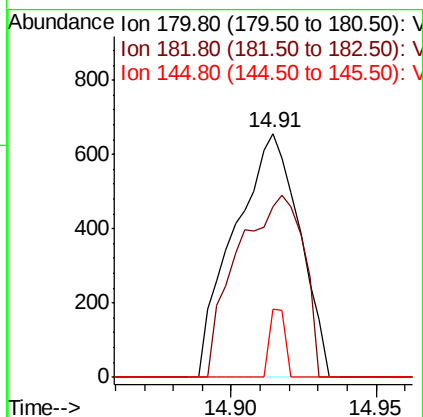
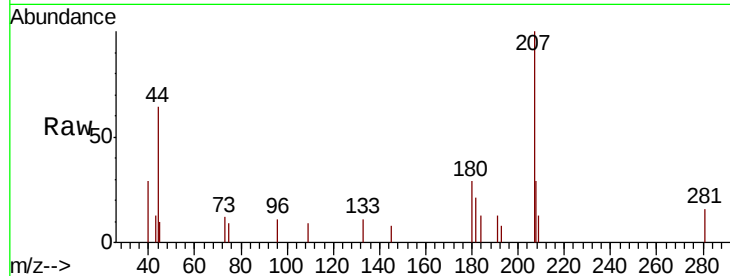




#93
 1,2,4-Trichlorobenzene
 Concen: 3.23 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN050263.D
 Acq: 2 Aug 2018 14:54

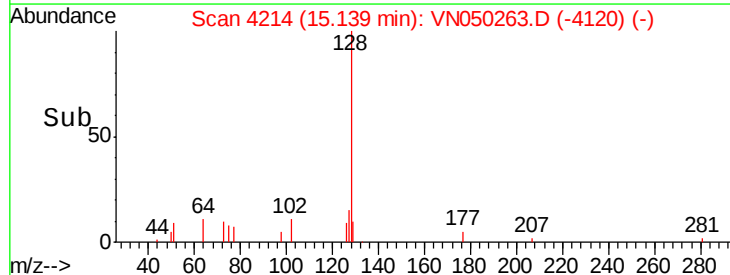
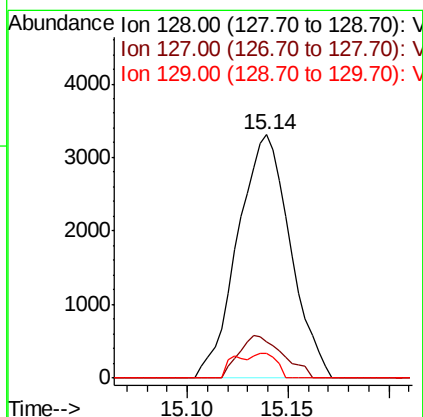
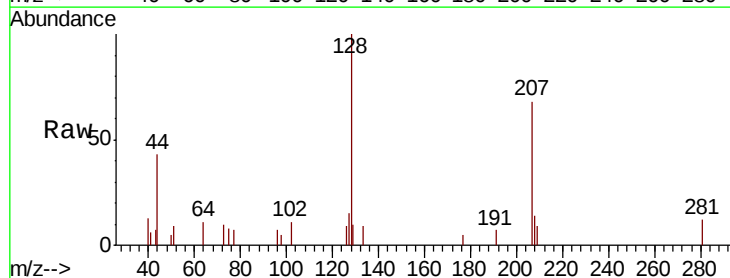
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#01

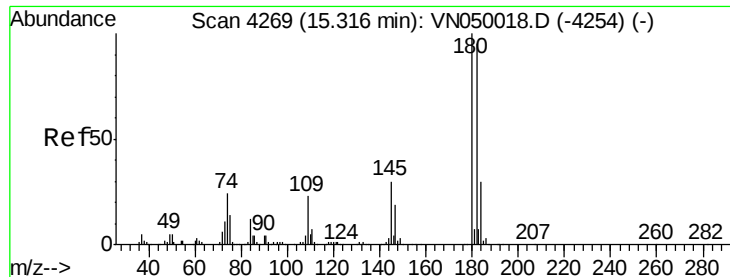
Tot Ion:180 Resp: 1022
 Ion Ratio Lower Upper
 180 100
 182 76.1 46.7 140.1
 145 6.8 13.8 41.4#



#95
 Naphthalene
 Concen: 4.77 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN050263.D
 Acq: 2 Aug 2018 14:54

Tgt Ion:128 Resp: 6023
 Ion Ratio Lower Upper
 128 100
 127 14.5 10.4 15.6
 129 4.7 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.32 ug/l
 RT: 15.32 min Scan# 4269
 Delta R.T. -0.00 min
 Lab File: VN050263.D
 Acq: 2 Aug 2018 14:54

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#01

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.8	48.1	144.4
145	11.7	15.3	45.9

