

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073018\
 Data File : VN050198.D
 Acq On : 30 Jul 2018 19:41
 Operator : MD\SY
 Sample : J3831-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-03-072718

Quant Time: Jul 31 01:14:41 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	666425	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1089744	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	941653	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	352704	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	465786	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
35) Dibromofluoromethane	7.59	113	420499	47.26	ug/l	0.00
Spiked Amount			Recovery	=	94.52%	
50) Toluene-d8	10.09	98	1497482	45.78	ug/l	0.00
Spiked Amount			Recovery	=	91.56%	
62) 4-Bromofluorobenzene	12.40	95	426455	39.59	ug/l	0.00
Spiked Amount			Recovery	=	79.18%	

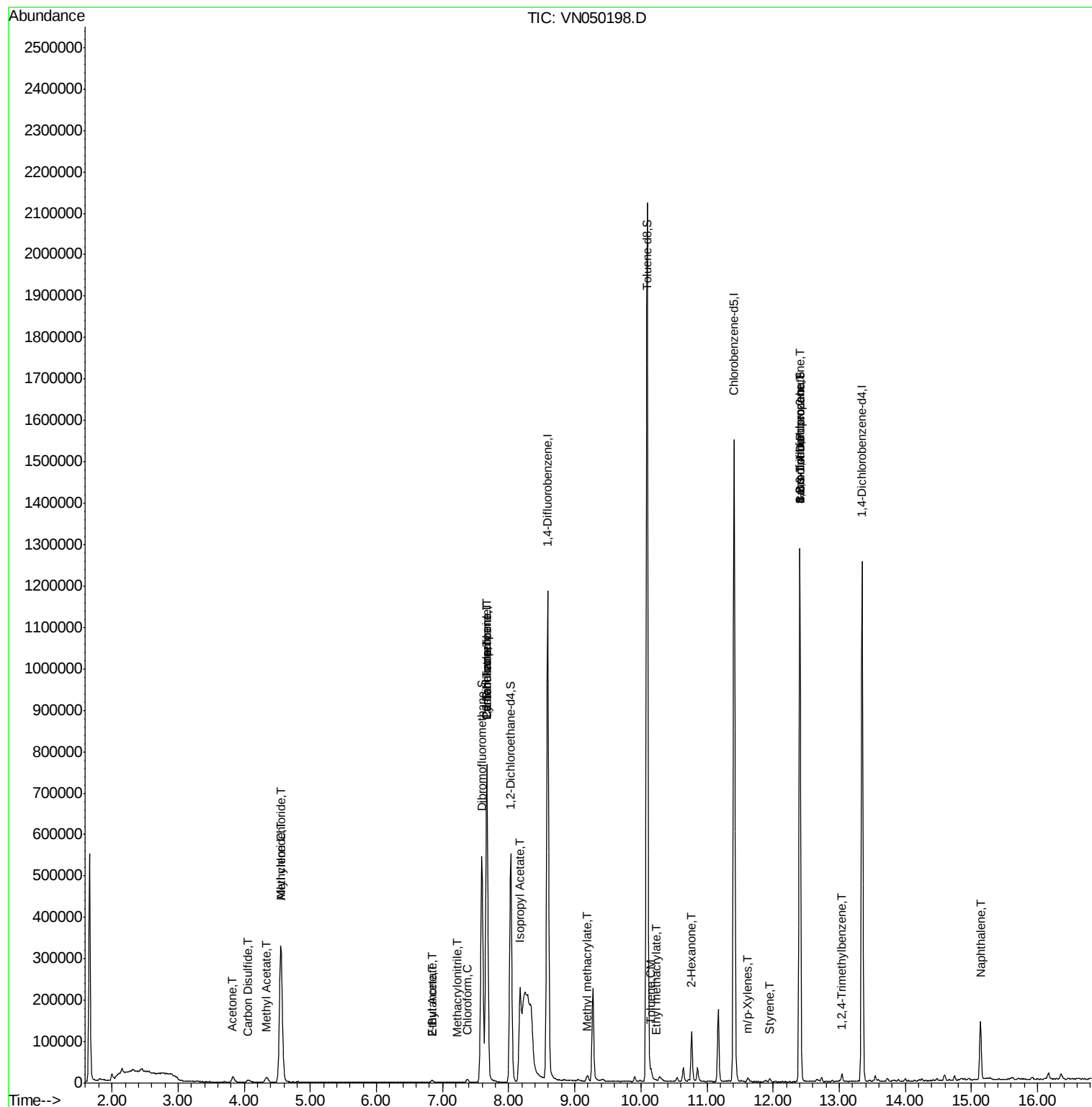
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	267	Below Cal		91
14) Allyl chloride	4.55	41	9808	0.82 ug/l	#	24
16) Acetone	3.82	43	22513	6.04 ug/l		93
17) Carbon Disulfide	4.05	76	8022	0.34 ug/l		98
18) Methyl Acetate	4.34	43	23311	1.14 ug/l		99
20) Methylene Chloride	4.56	84	256628	30.64 ug/l		98
25) 2-Butanone	6.85	43	4218	1.19 ug/l	#	85
30) Chloroform	7.37	83	8182	0.52 ug/l		89
31) Cyclohexane	7.67	56	12423	0.90 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	46770	3.81 ug/l	#	48
37) Ethyl Acetate	6.85	43	4218	0.49 ug/l	#	67
38) Carbon Tetrachloride	7.67	117	59835	4.59 ug/l	#	17
41) Methacrylonitrile	7.21	41	464	2.85 ug/l	#	15
43) Isopropyl Acetate	8.17	43	282917	16.78 ug/l	#	92
48) Methyl methacrylate	9.18	41	7383	1.00 ug/l	#	25
52) Toluene	10.16	92	6486	0.29 ug/l		94
56) Ethyl methacrylate	10.23	69	2091	2.20 ug/l	#	44
59) 2-Hexanone	10.77	43	16816	7.84 ug/l	#	58
68) m/p-Xylenes	11.62	106	3127	0.22 ug/l		95
70) Styrene	11.96	104	231	0.93 ug/l	#	1
71) Bromoform	12.41	173	2170	0.33 ug/l	#	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	303	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	207392	31.64 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.40	75	207392	100.36 ug/l	#	13
84) 1,2,4-Trimethylbenzene	13.04	105	10778	0.50 ug/l		99
95) Naphthalene	15.14	128	122925	11.37 ug/l		99

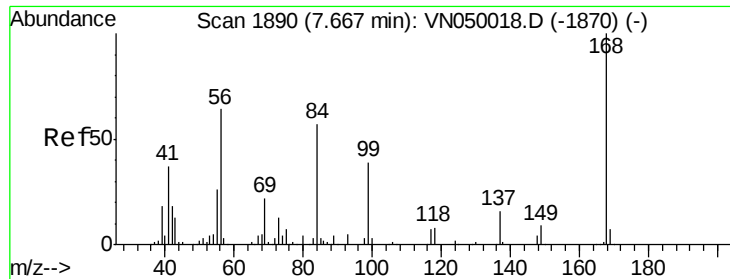
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050198.D

Acq: 30 Jul 2018 19:41

Instrument :

MSVOA_N

ClientSampleId :

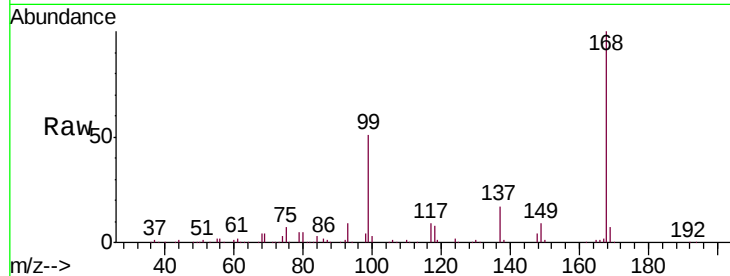
SU-03-072718

Tot Ion:168 Resp: 666425

Ion Ratio Lower Upper

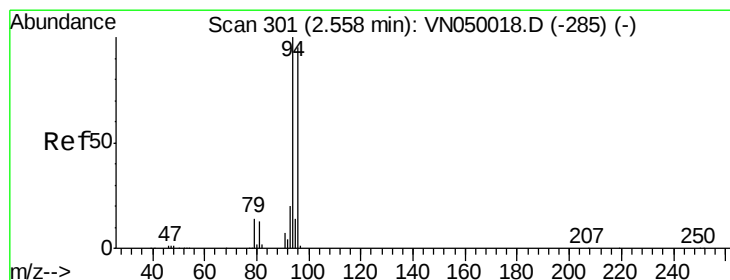
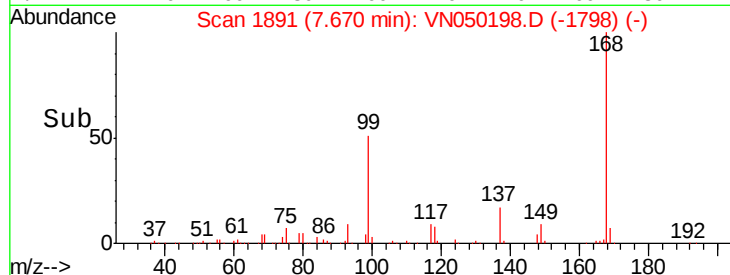
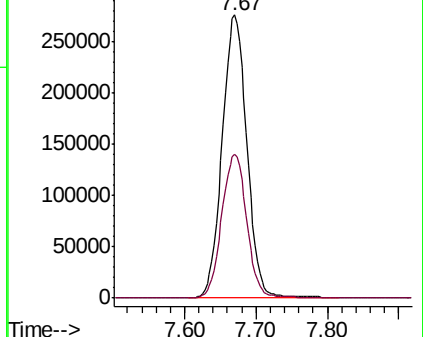
168 100

99 51.0 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 300

Delta R.T. 0.00 min

Lab File: VN050198.D

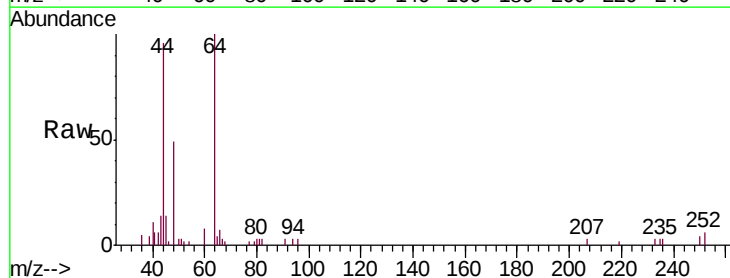
Acq: 30 Jul 2018 19:41

Tgt Ion: 94 Resp: 267

Ion Ratio Lower Upper

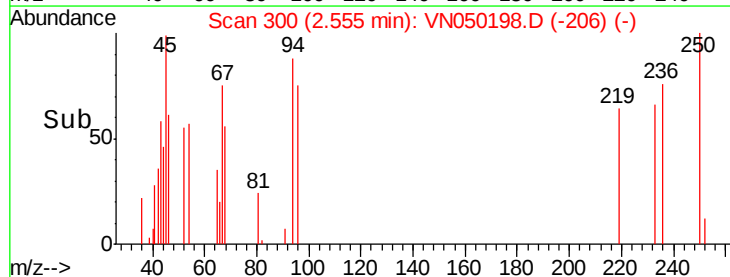
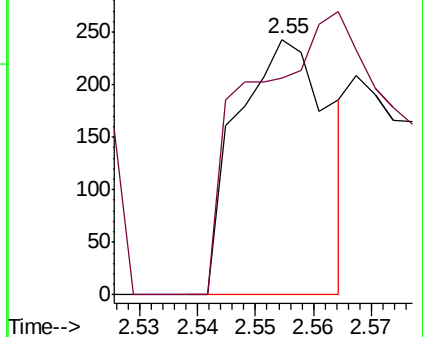
94 100

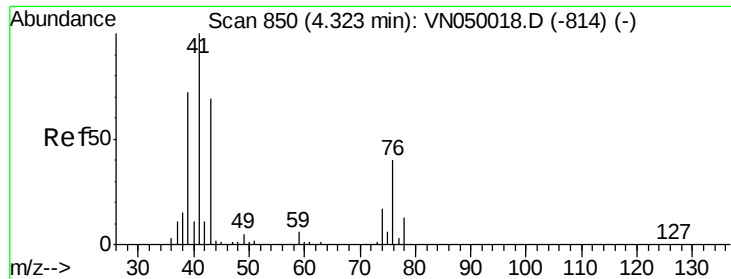
96 84.8 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

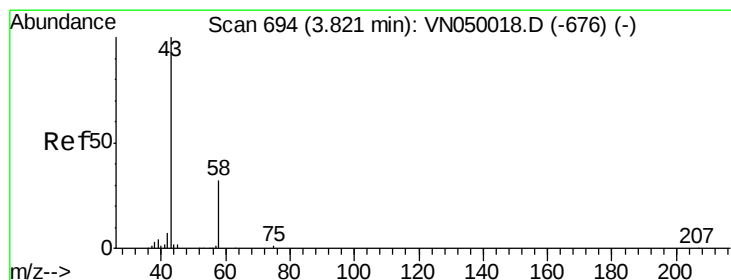
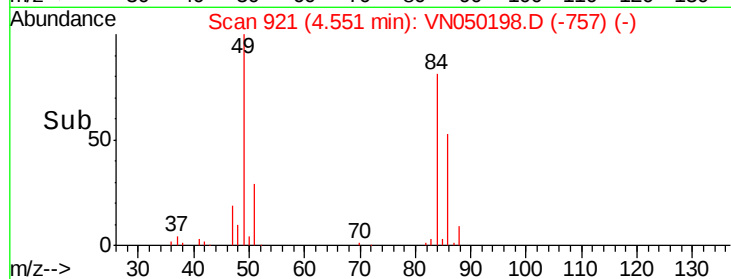
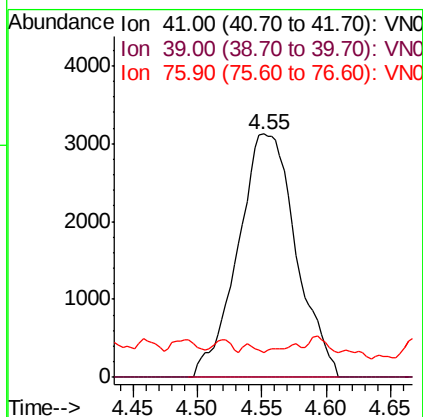
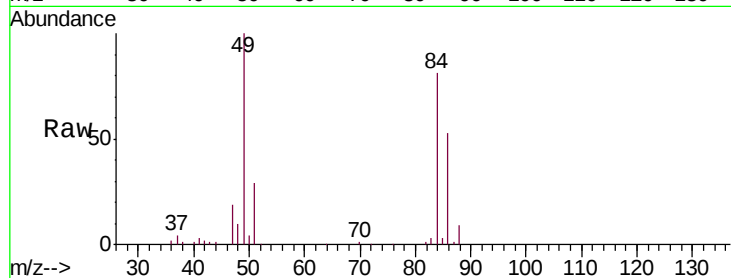




#14
Allvl chloride
Concen: 0.82 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.23 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

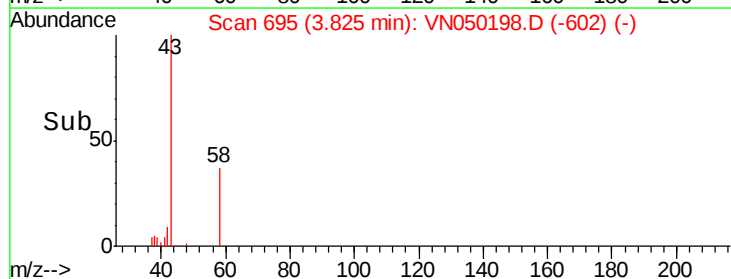
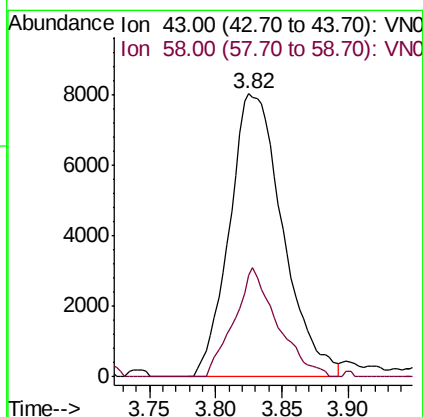
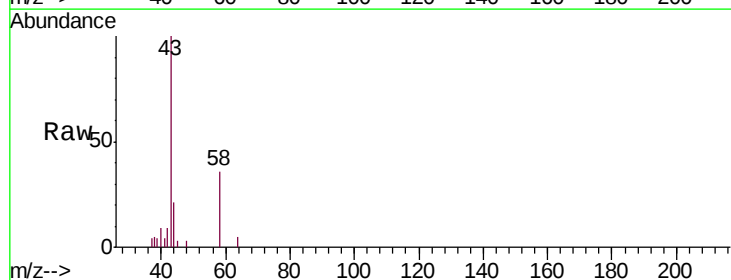
Instrument :
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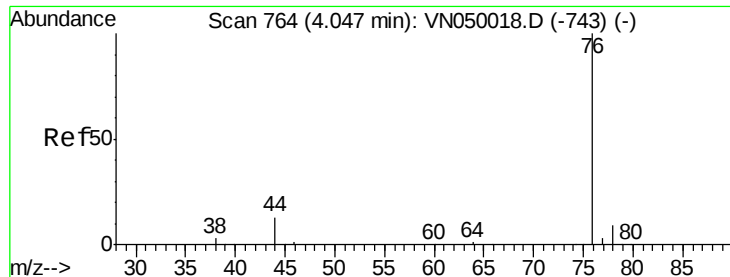
Tot Ion: 41 Resp: 9808
Ion Ratio Lower Upper
41 100
39 0.0 54.2 81.4#
76 0.0 29.0 43.6#



#16
Acetone
Concen: 6.04 ug/l
RT: 3.82 min Scan# 695
Delta R.T. 0.00 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

Tgt Ion: 43 Resp: 22513
Ion Ratio Lower Upper
43 100
58 36.1 25.8 38.8

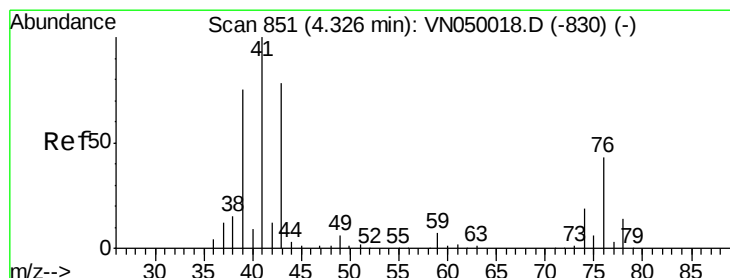
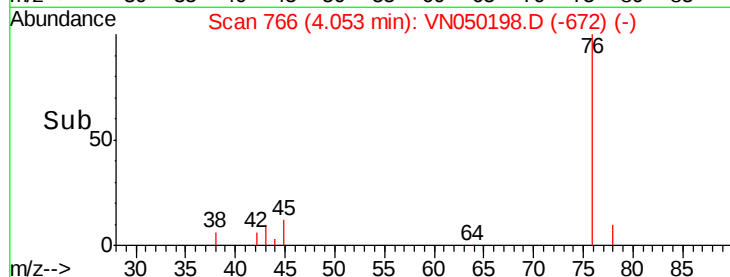
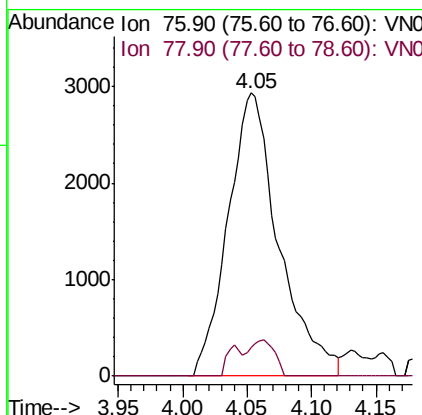
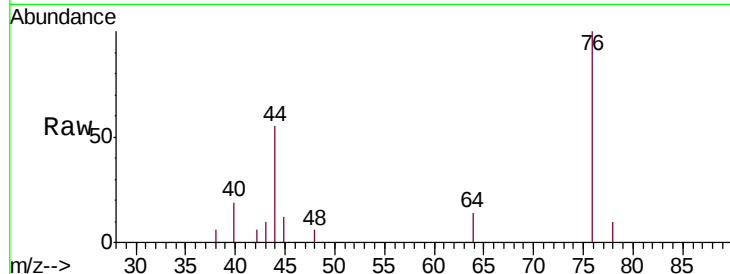




#17
Carbon Disulfide
Concen: 0.34 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

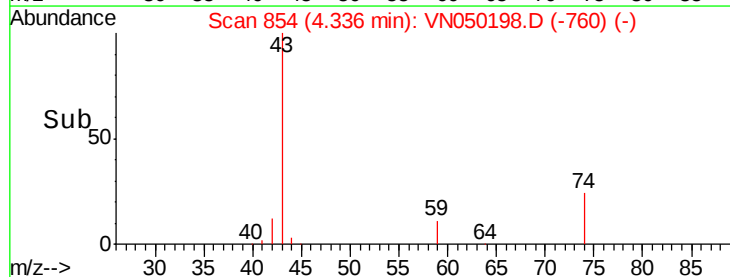
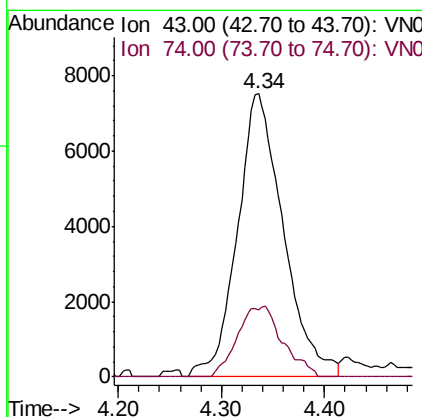
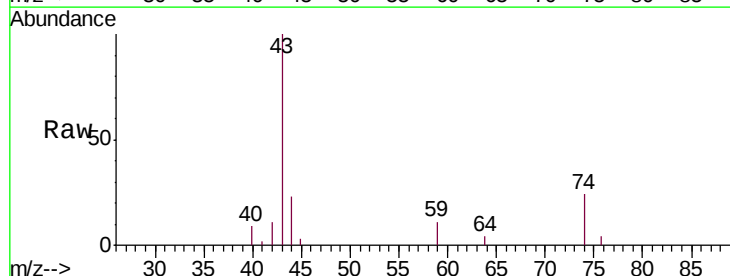
Instrument :
MSVOA_N
ClientSampleId :
SU-03-072718

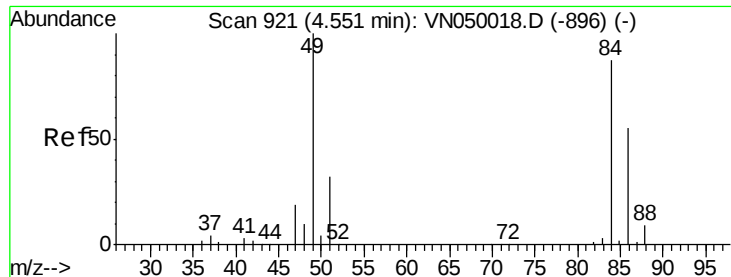
Tot Ion: 76 Resp: 8022
Ion Ratio Lower Upper
76 100
78 9.9 7.3 10.9



#18
Methyl Acetate
Concen: 1.14 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.00 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

Tgt Ion: 43 Resp: 23311
Ion Ratio Lower Upper
43 100
74 24.6 19.2 28.8

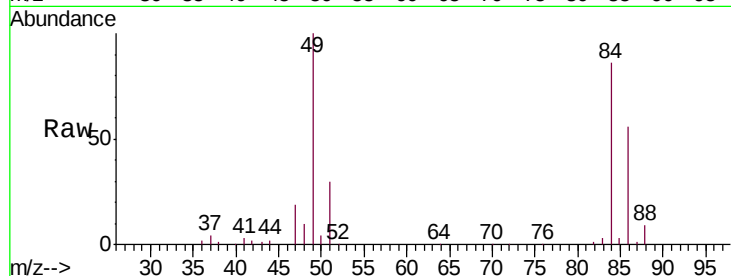




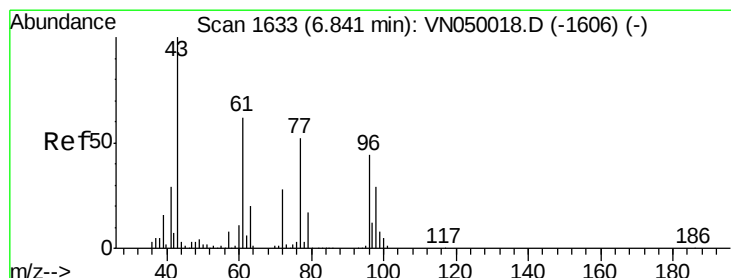
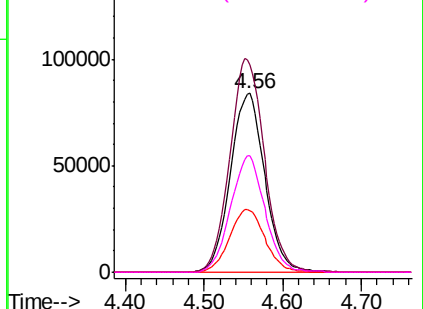
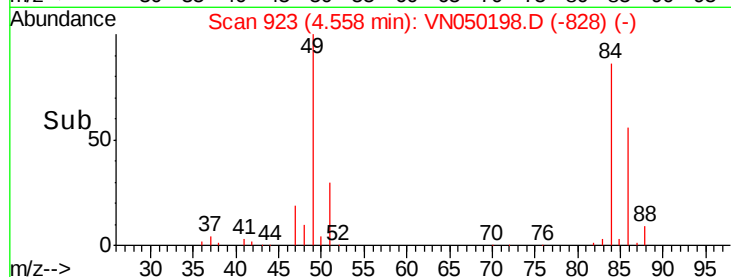
#20
Methvlene Chloride
Concen: 30.64 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

Instrument :
MSVOA_N
ClientSampleId :
SU-03-072718

Tot Ion: 84 Resp: 256628
Ion Ratio Lower Upper
84 100
49 116.1 94.8 142.2
51 34.6 28.3 42.5
86 65.4 51.0 76.6

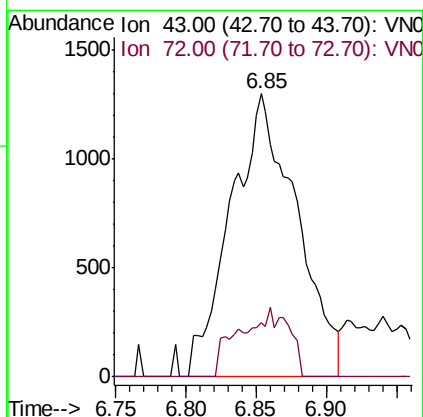
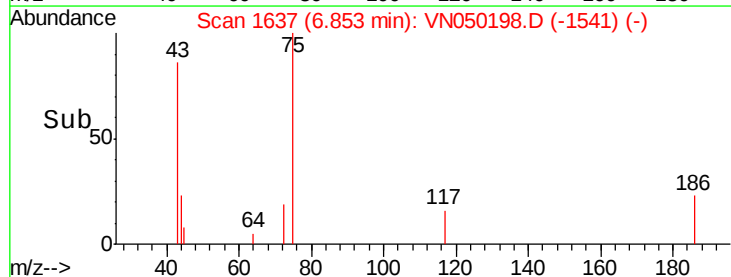
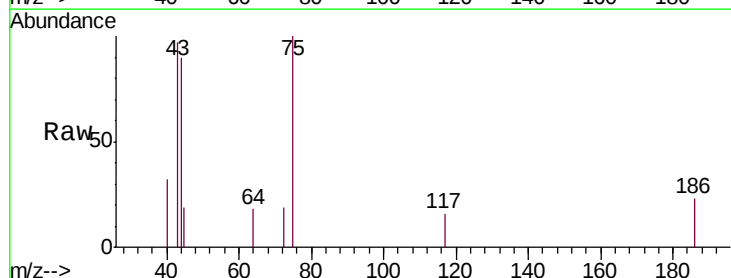


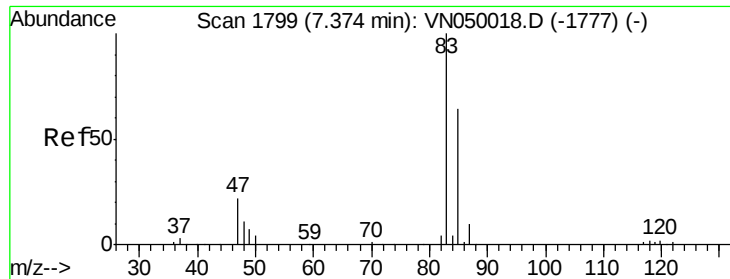
Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO



#25
2-Butanone
Concen: 1.19 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

Tgt Ion: 43 Resp: 4218
Ion Ratio Lower Upper
43 100
72 19.4 21.5 32.3#

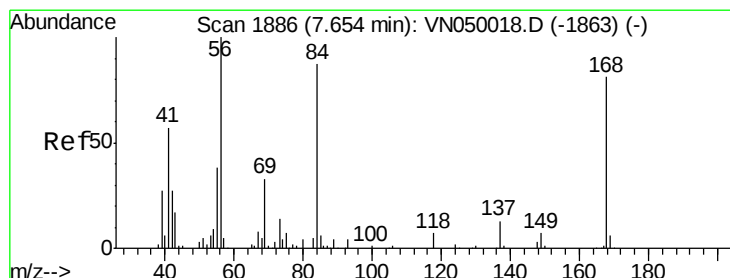
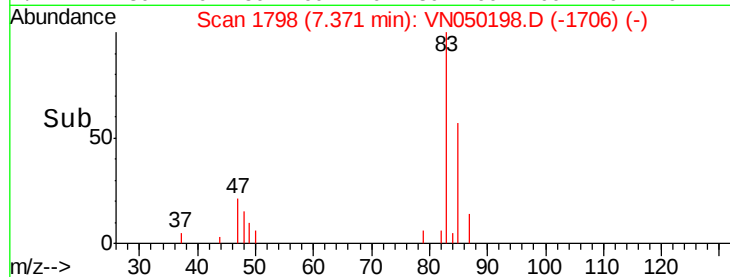
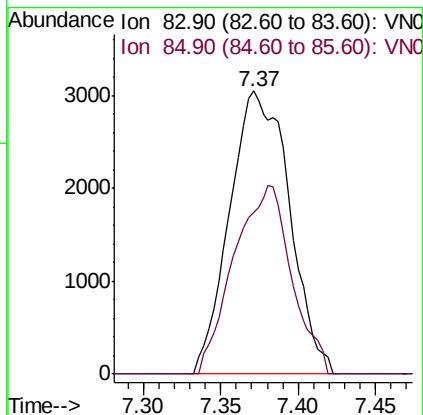
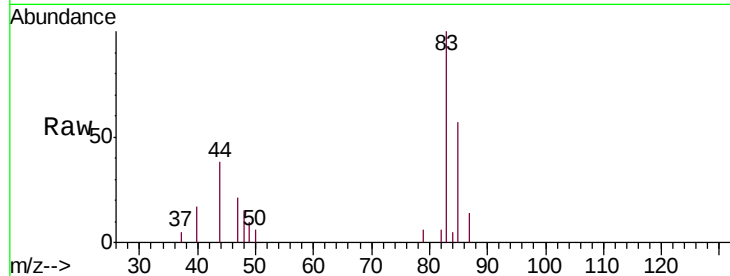




#30
Chloroform
Concen: 0.52 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

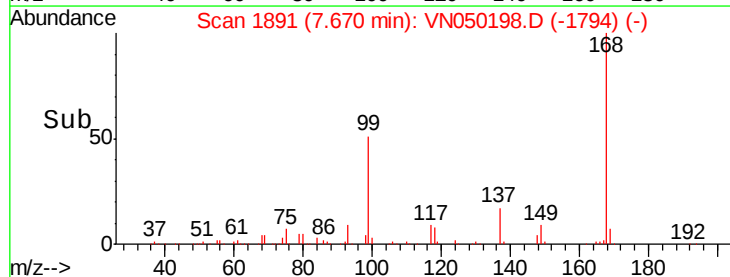
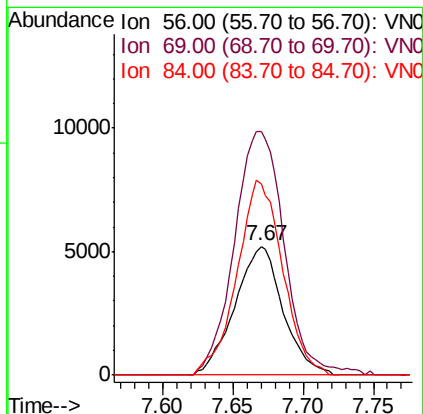
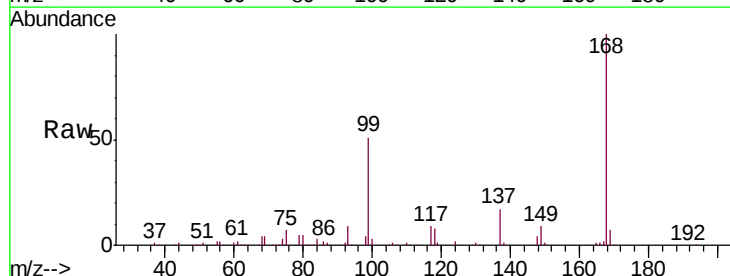
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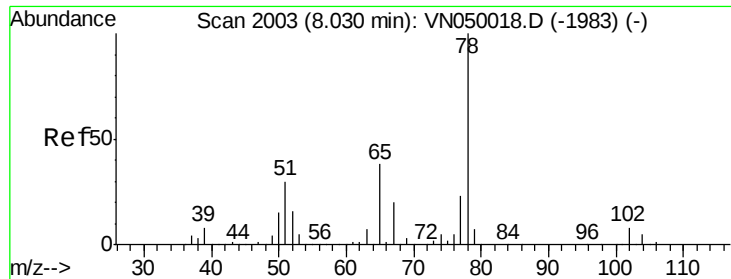
Tot Ion: 83 Resp: 8182
Ion Ratio Lower Upper
83 100
85 57.2 52.5 78.7



#31
Cyclohexane
Concen: 0.90 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.01 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

Tgt Ion: 56 Resp: 12423
Ion Ratio Lower Upper
56 100
69 189.2 26.2 39.4#
84 148.8 67.4 101.0#

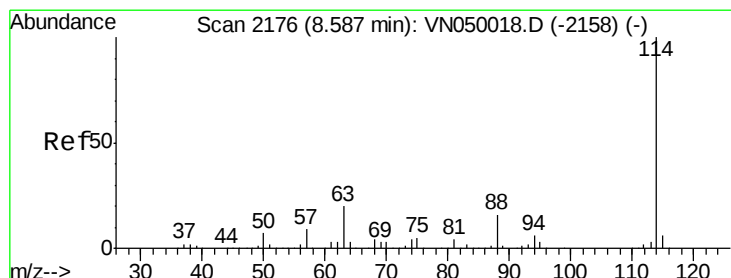
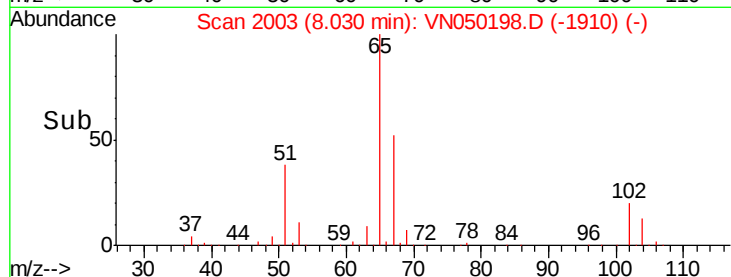
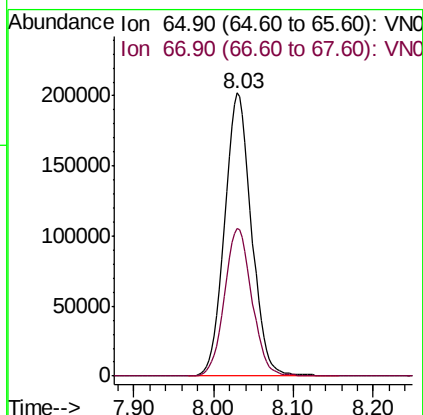
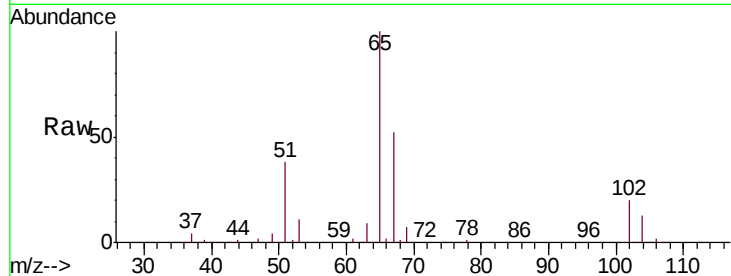




#33
 1,2-Dichloroethane-d4
 Concen: 50.09 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050198.D
 Acq: 30 Jul 2018 19:41

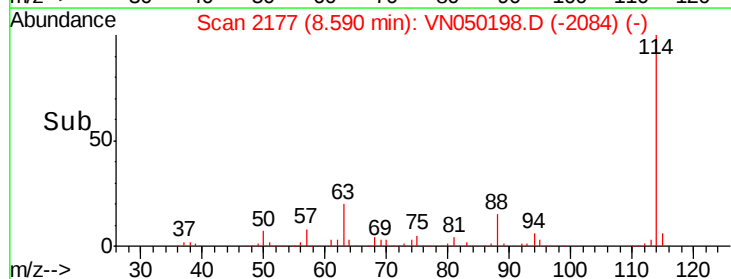
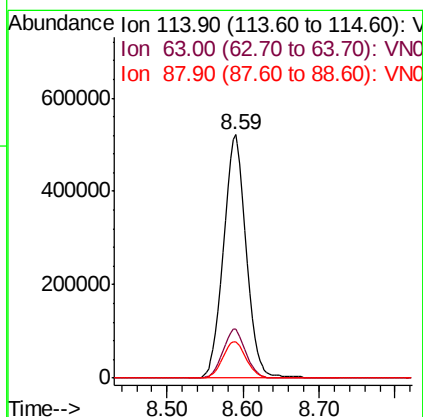
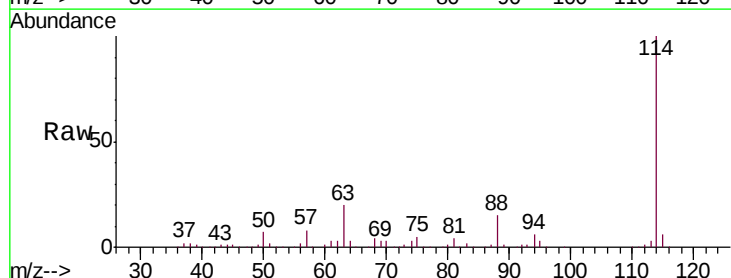
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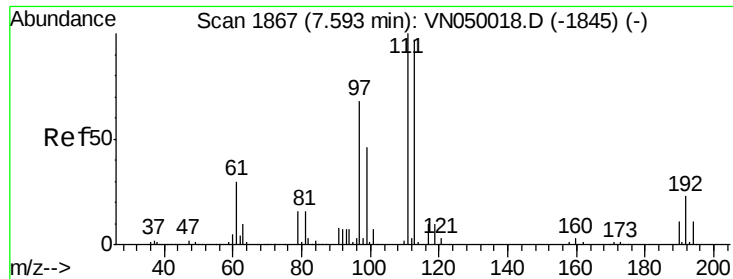
Tot Ion: 65 Resp: 465786
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050198.D
 Acq: 30 Jul 2018 19:41

Tgt Ion: 114 Resp: 1089744
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 15.1 0.0 31.2

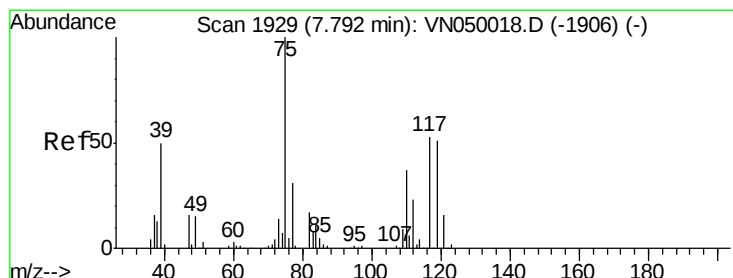
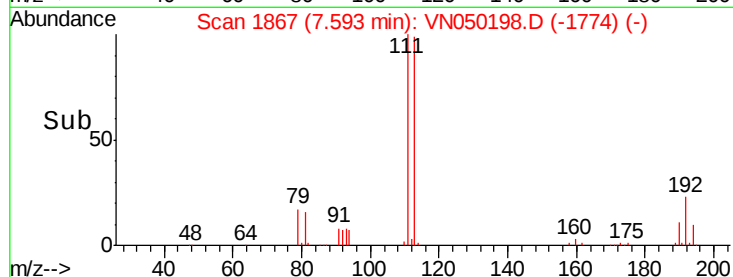
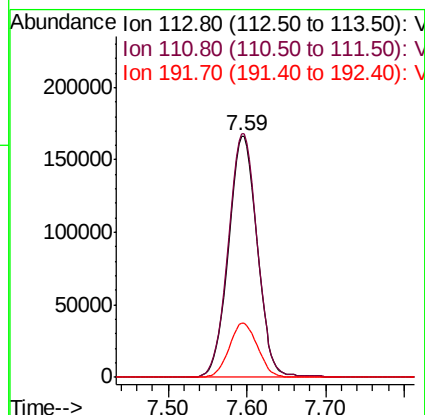
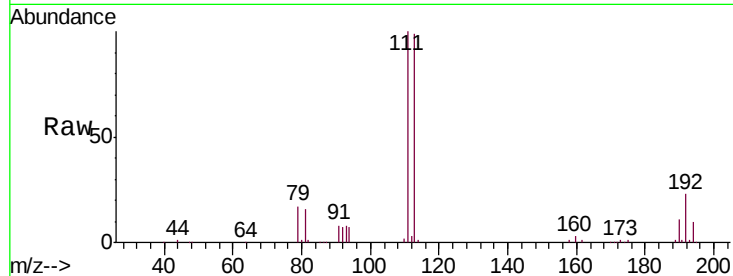




#35
 Dibromofluoromethane
 Concen: 47.26 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050198.D
 Acq: 30 Jul 2018 19:41

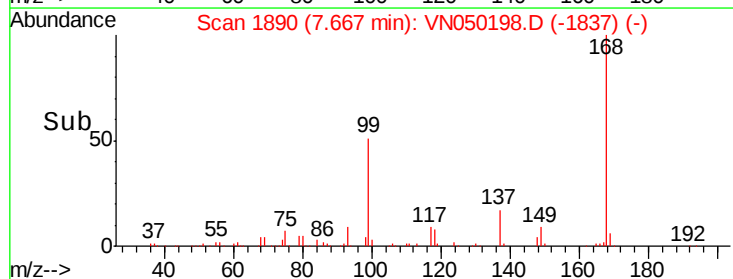
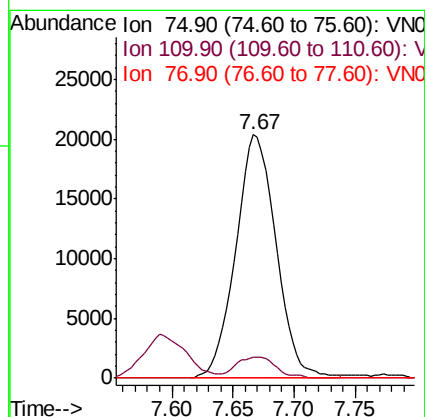
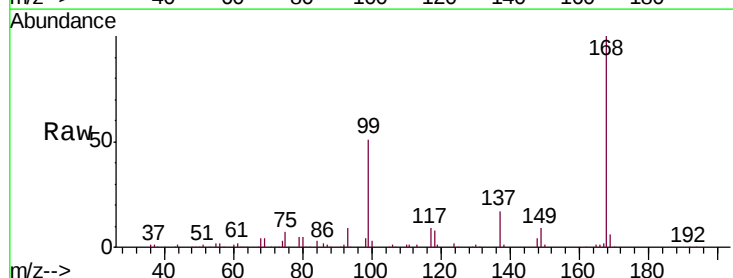
Instrument :
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 ClientSampleId :
 SU-03-072718

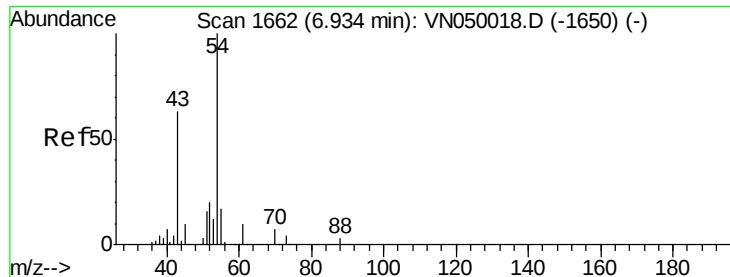
Tot Ion:113 Resp: 420499
 Ion Ratio Lower Upper
 113 100
 111 102.1 80.7 121.1
 192 22.4 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.81 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050198.D
 Acq: 30 Jul 2018 19:41

Tgt Ion: 75 Resp: 46770
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.4 55.2#
 77 0.0 25.3 37.9#

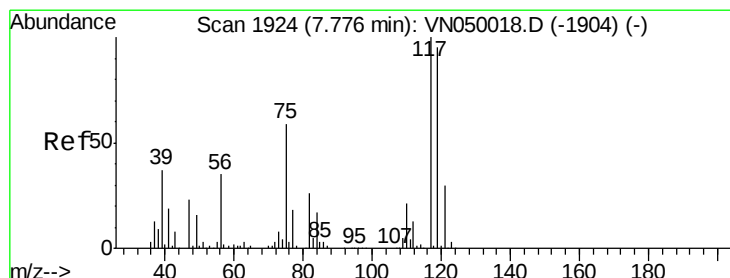
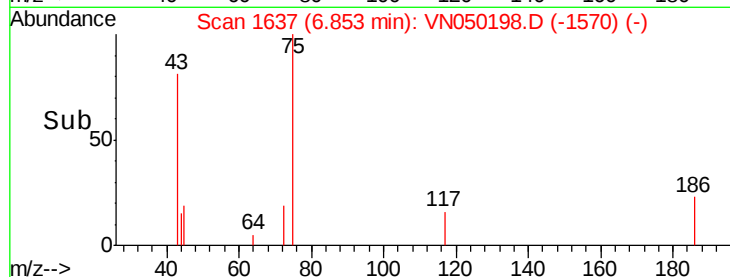
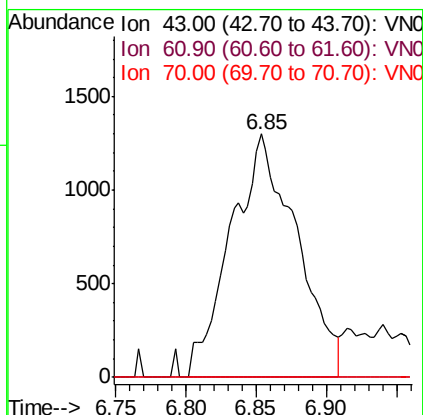
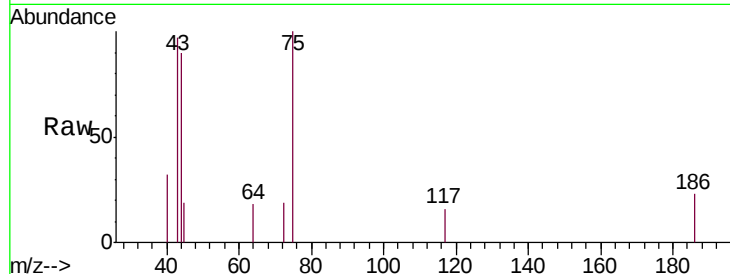




#37
Ethyl Acetate
Concen: 0.49 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. -0.08 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

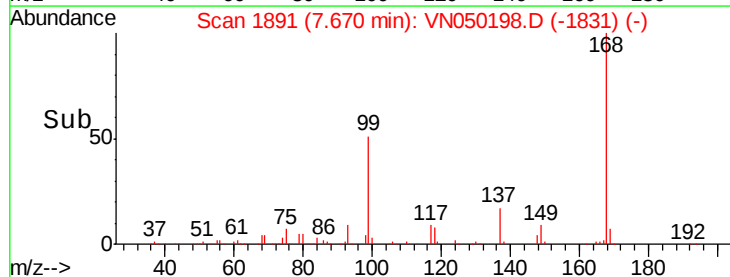
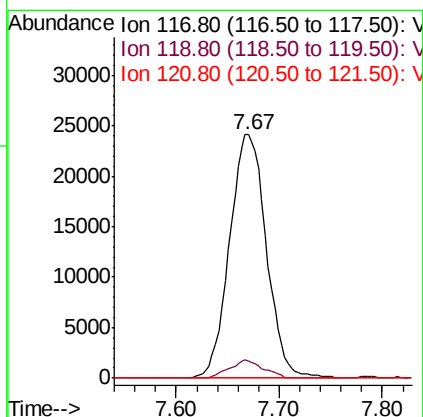
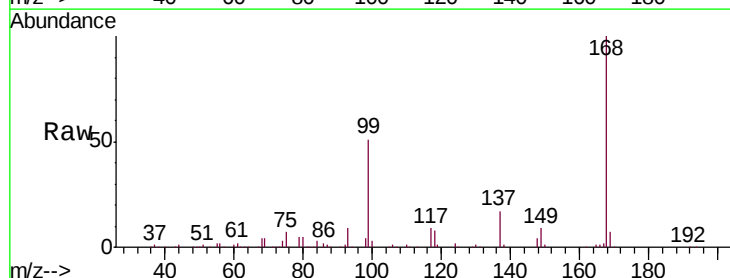
Instrument :
MSVOA_N
ClientSampleId :
SU-03-072718

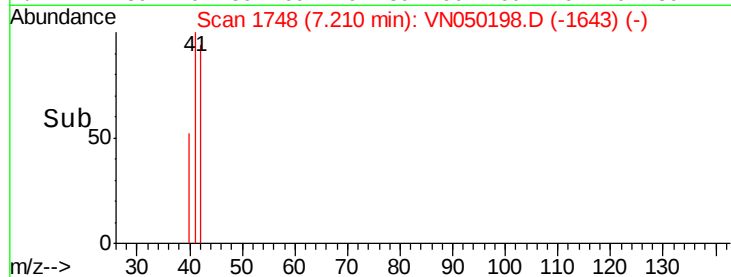
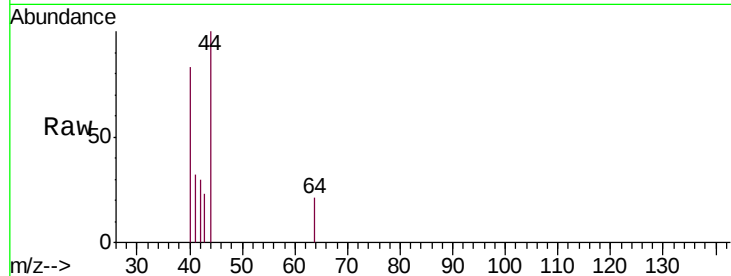
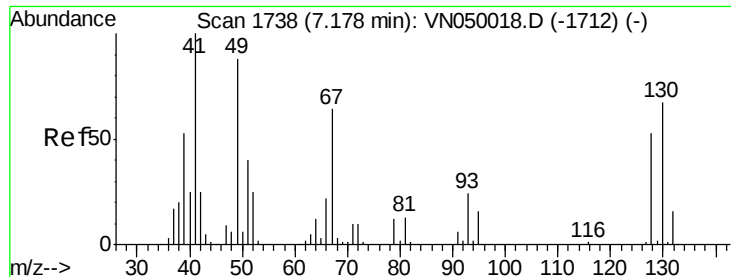
Tot Ion: 43 Resp: 4218
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.8#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 4.59 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

Tgt Ion: 117 Resp: 59835
Ion Ratio Lower Upper
117 100
119 7.0 77.4 116.0#
121 0.0 23.9 35.9#

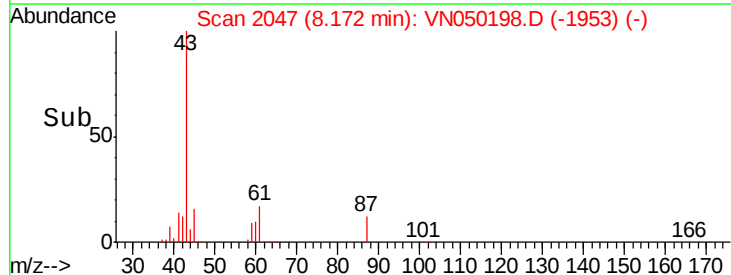
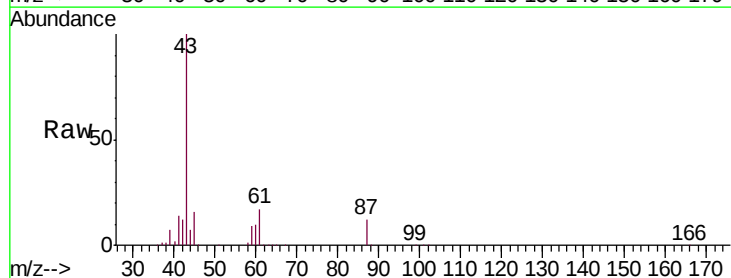
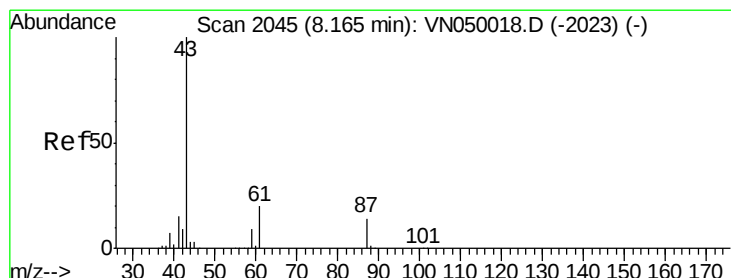
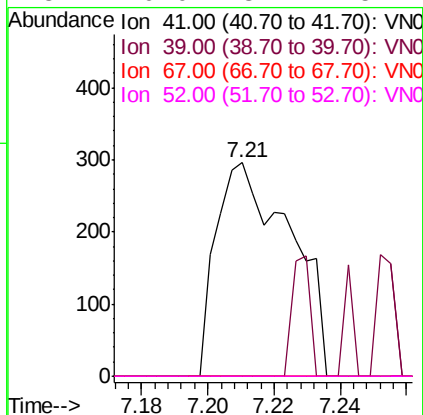




#41
Methacrylonitrile
Concen: 2.85 ug/l
RT: 7.21 min Scan# 1748
Delta R.T. 0.04 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

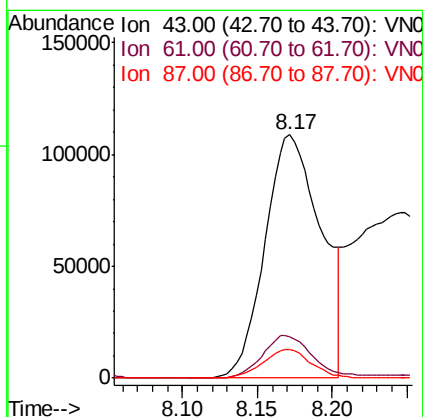
Instrument :
MSVOA_N
ClientSampleId :
SU-03-072718

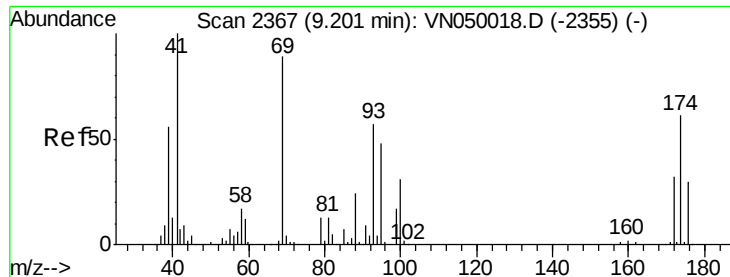
Tot Ion: 41 Resp: 464
Ion Ratio Lower Upper
41 100
39 13.6 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 16.78 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.00 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

Tgt Ion: 43 Resp: 282917
Ion Ratio Lower Upper
43 100
61 15.7 15.8 23.6#
87 10.2 10.3 15.5#

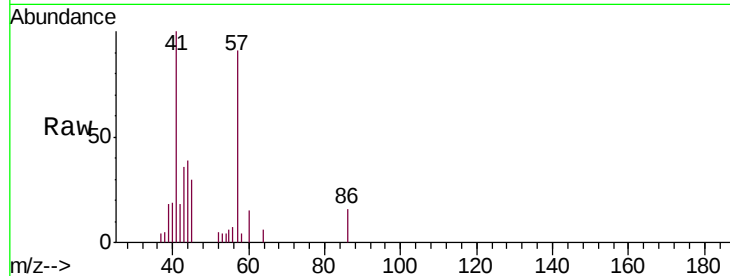




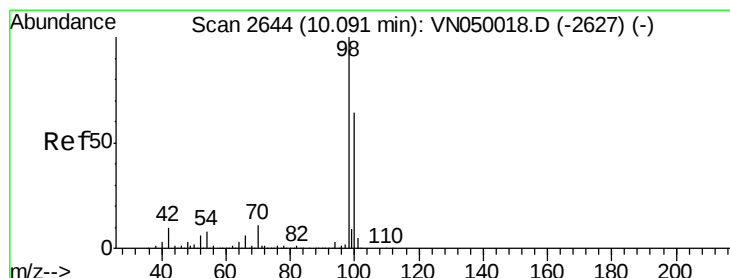
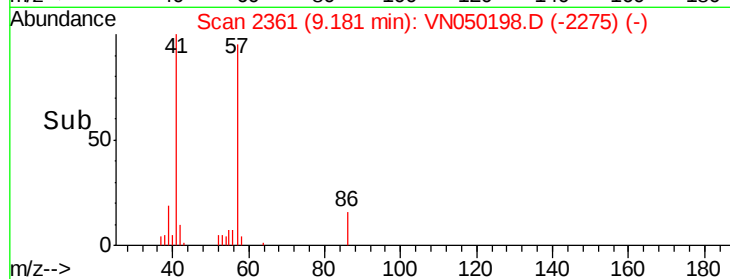
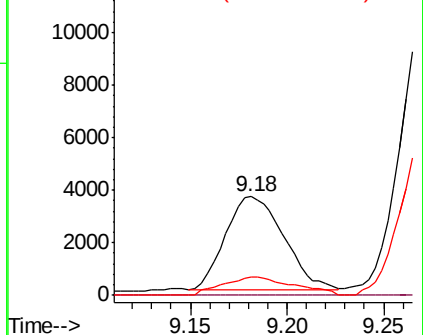
#48
Methvl methacrylate
Concen: 1.00 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

Instrument :
MSVOA_N
ClientSampleId :
SU-03-072718

Tot Ion: 41 Resp: 7383
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 24.2 43.9 65.9#

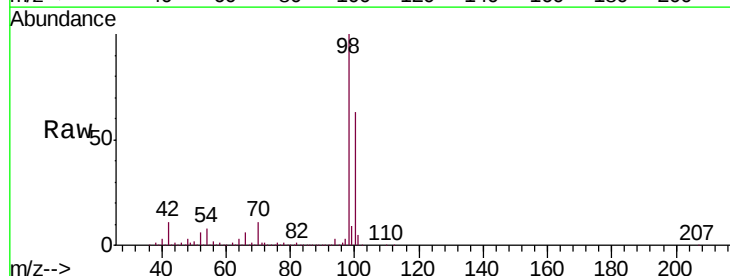


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

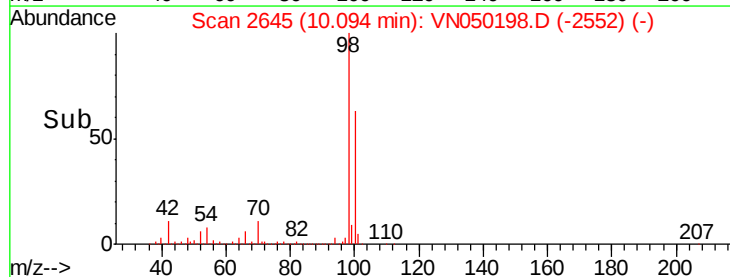
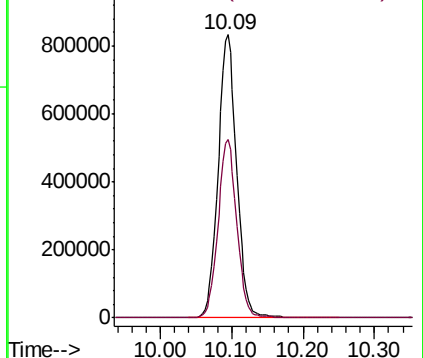


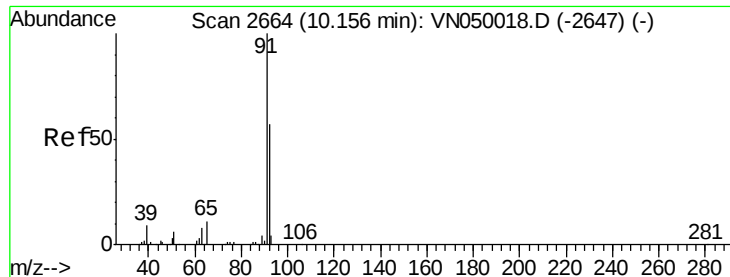
#50
Toluene-d8
Concen: 45.78 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

Tgt Ion: 98 Resp: 1497482
Ion Ratio Lower Upper
98 100
100 63.6 50.7 76.1



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





#52

Toluene

Concen: 0.29 ug/l

RT: 10.16 min Scan# 2666

Delta R.T. 0.00 min

Lab File: VN050198.D

Acq: 30 Jul 2018 19:41

Instrument :

MSVOA_N

ClientSampleId :

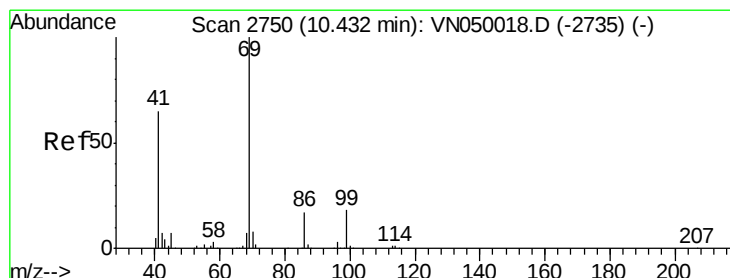
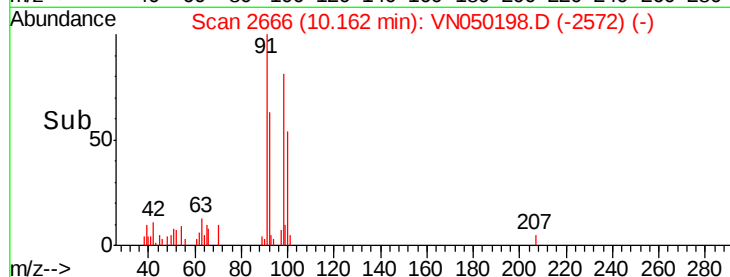
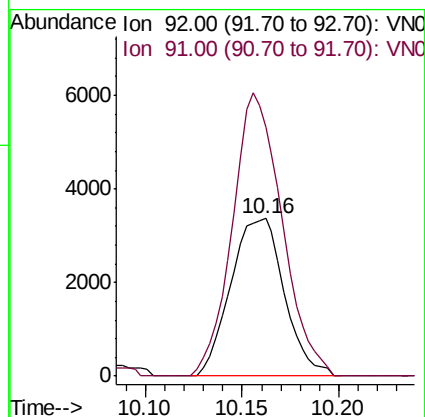
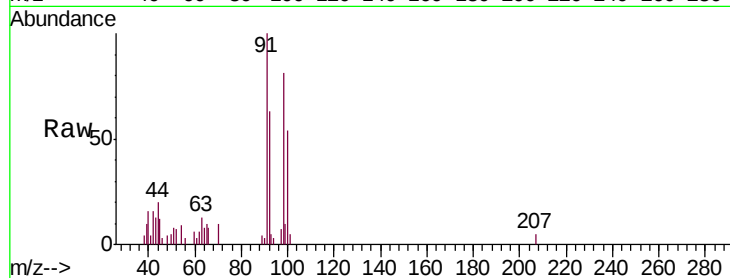
SU-03-072718

Tot Ion: 92 Resp: 6486

Ion Ratio Lower Upper

92 100

91 166.8 140.3 210.5



#56

Ethyl methacrylate

Concen: 2.20 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.21 min

Lab File: VN050198.D

Acq: 30 Jul 2018 19:41

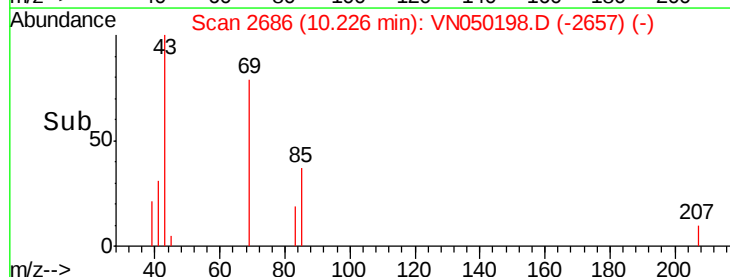
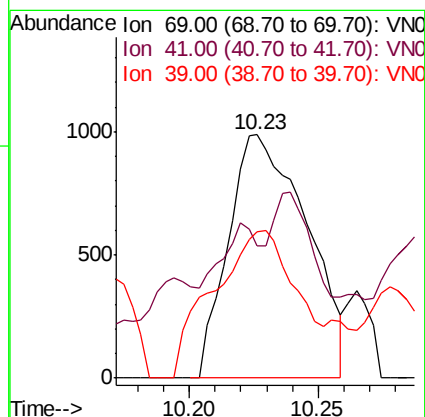
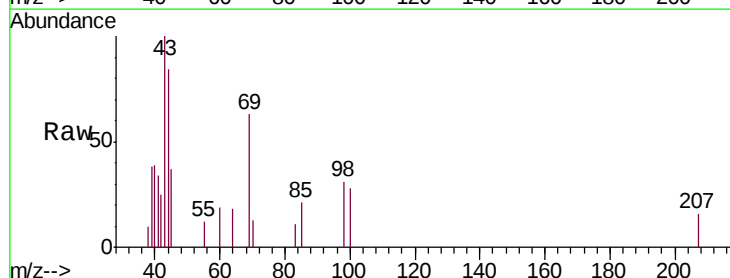
Tgt Ion: 69 Resp: 2091

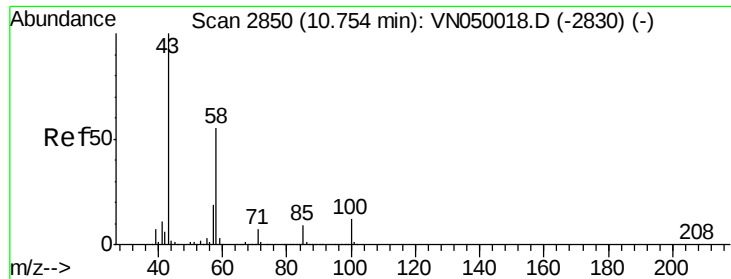
Ion Ratio Lower Upper

69 100

41 20.0 51.0 76.4#

39 65.2 26.6 40.0#





#59

2-Hexanone

Concen: 7.84 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050198.D

Acq: 30 Jul 2018 19:41

Instrument :

MSVOA_N

ClientSampleId :

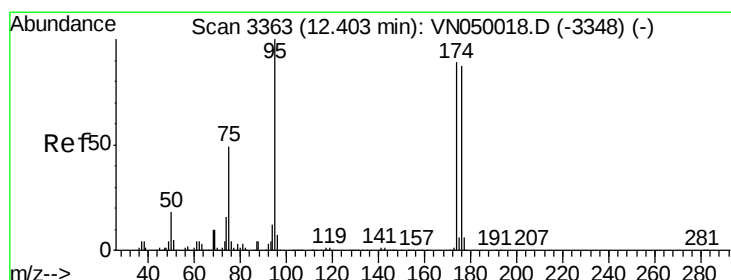
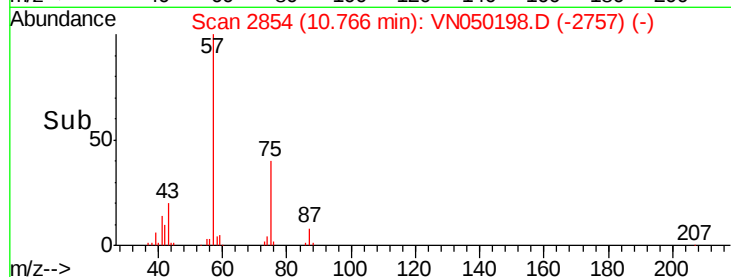
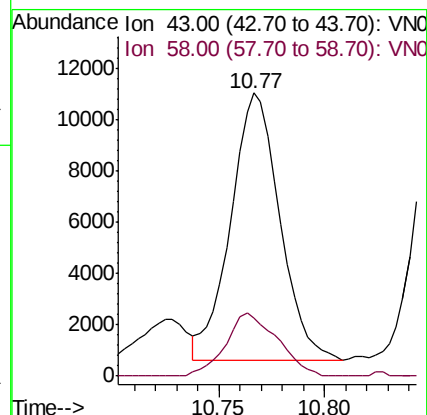
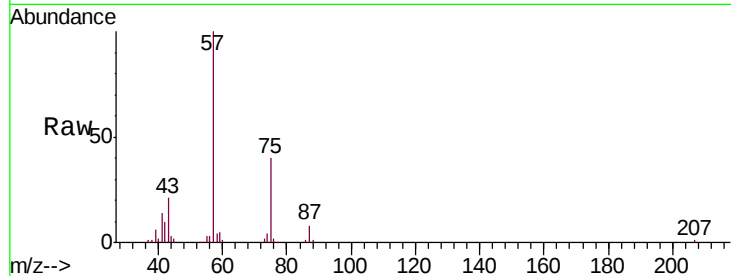
SU-03-072718

Tot Ion: 43 Resp: 16816

Ion Ratio Lower Upper

43 100

58 25.0 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 39.59 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050198.D

Acq: 30 Jul 2018 19:41

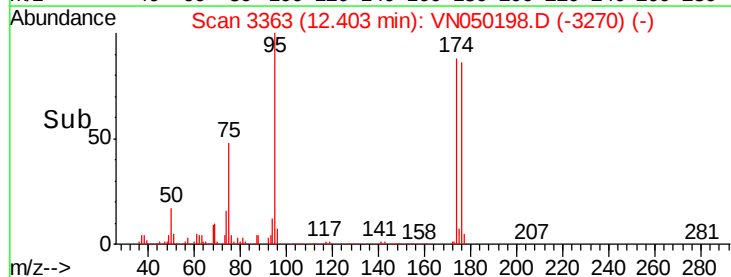
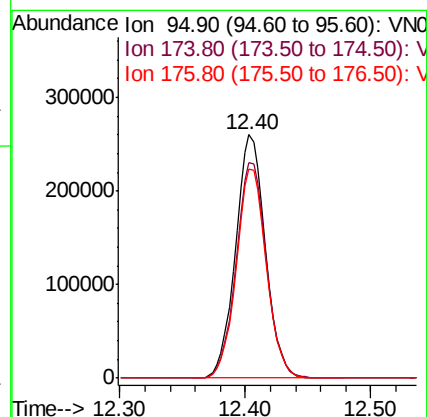
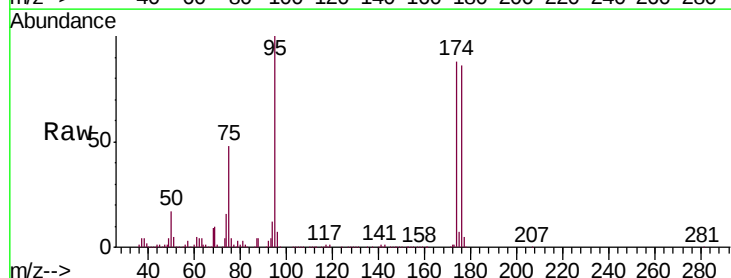
Tgt Ion: 95 Resp: 426455

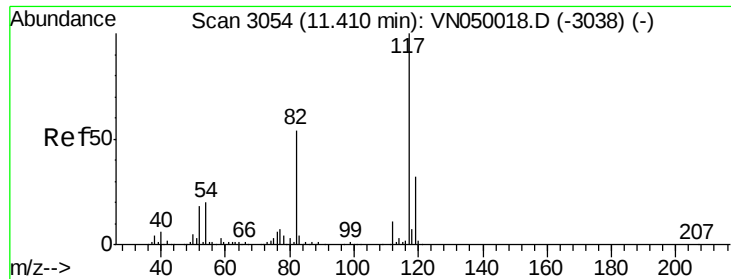
Ion Ratio Lower Upper

95 100

174 90.4 0.0 178.2

176 86.8 0.0 173.4

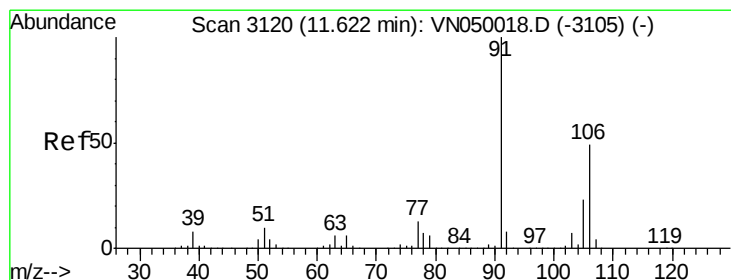
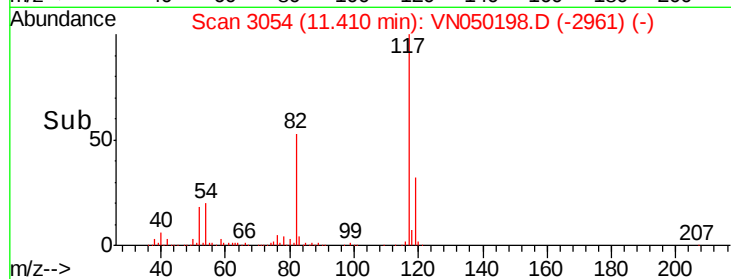
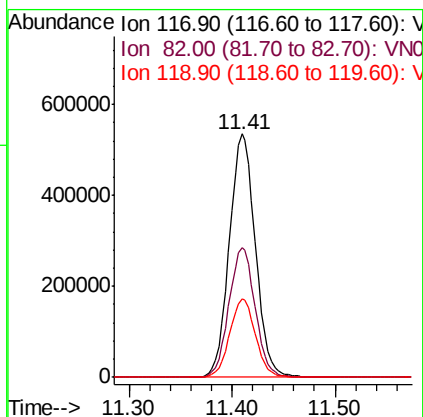
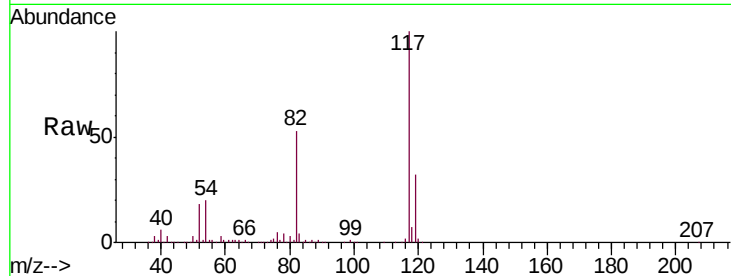




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

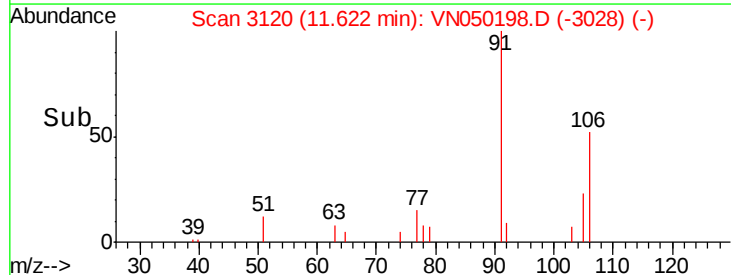
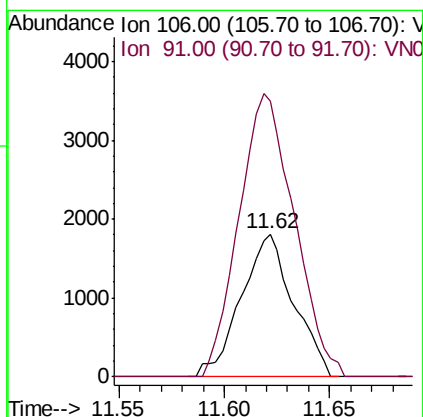
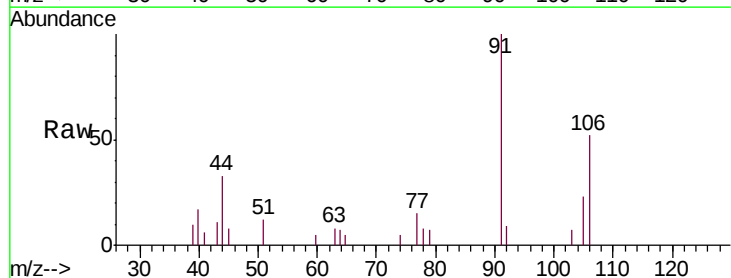
Instrument :
MSVOA_N
ClientSampled :
SU-03-072718

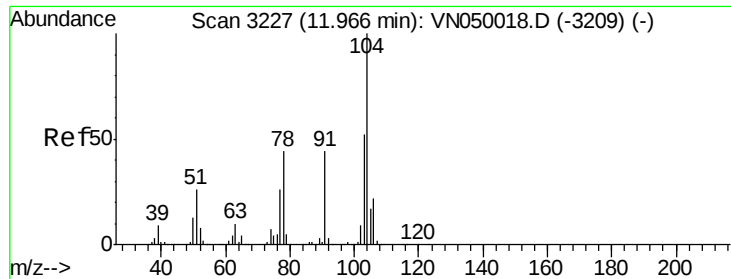
Tot Ion:117 Resp: 941653
Ion Ratio Lower Upper
117 100
82 53.4 43.7 65.5
119 32.1 26.1 39.1



#68
m/p-Xylenes
Concen: 0.22 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. -0.00 min
Lab File: VN050198.D
Acq: 30 Jul 2018 19:41

Tgt Ion:106 Resp: 3127
Ion Ratio Lower Upper
106 100
91 209.6 162.2 243.2





#70

Stvrene

Concen: 0.93 ug/l

RT: 11.96 min Scan# 3224

Delta R.T. -0.01 min

Lab File: VN050198.D

Acq: 30 Jul 2018 19:41

Instrument :

MSVOA_N

ClientSampleId :

SU-03-072718

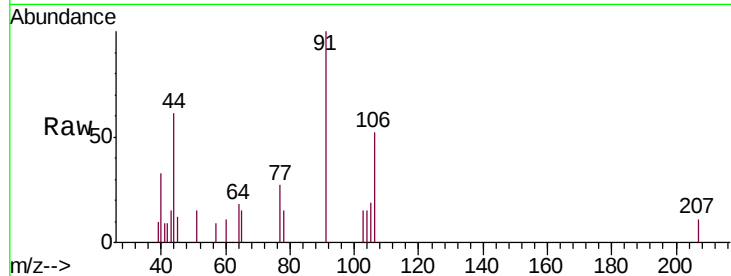
Tot Ion:104 Resp: 231

Ion Ratio Lower Upper

104 100

78 161.5 39.3 58.9#

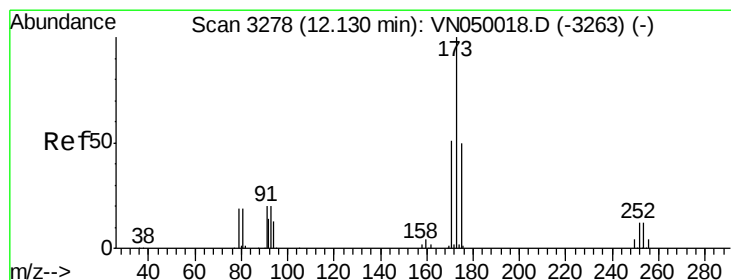
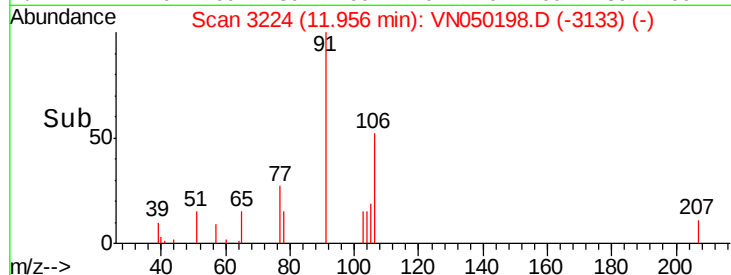
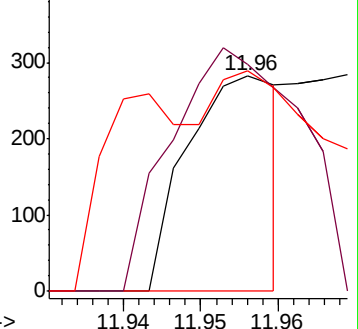
103 151.1 45.0 67.6#



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



#71

Bromoform

Concen: 0.33 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050198.D

Acq: 30 Jul 2018 19:41

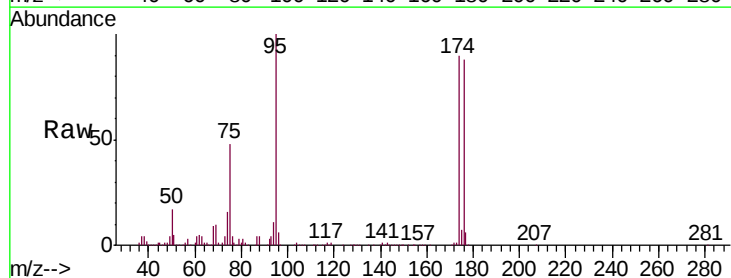
Tgt Ion:173 Resp: 2170

Ion Ratio Lower Upper

173 100

175 1161.4 24.1 72.2#

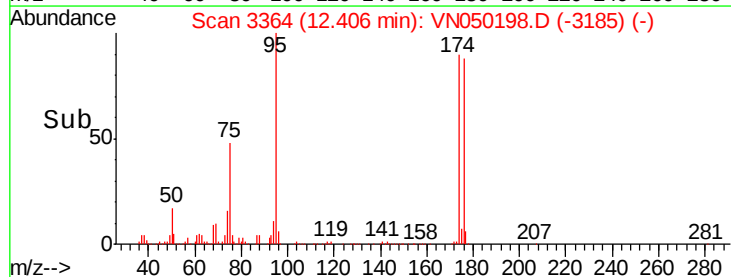
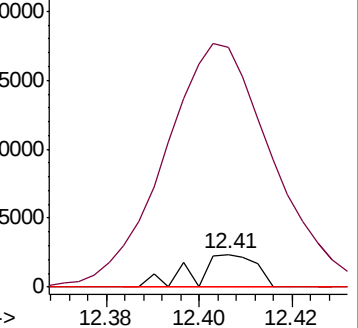
254 0.0 0.2 0.2#

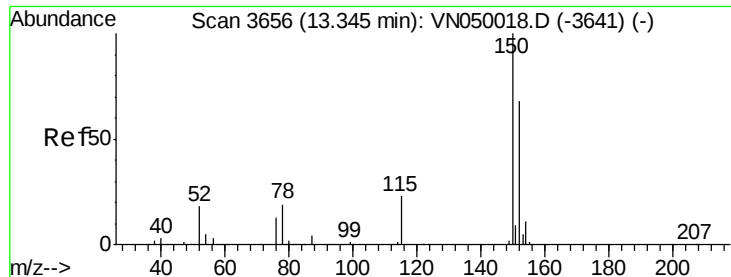


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050198.D

Acq: 30 Jul 2018 19:41

Instrument :

MSVOA_N

ClientSampleId :

SU-03-072718

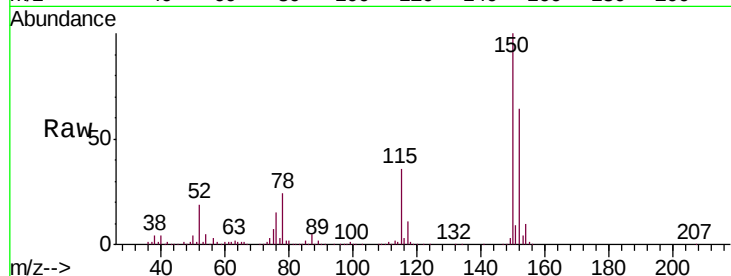
Tot Ion:152 Resp: 352704

Ion Ratio Lower Upper

152 100

115 56.0 27.8 83.3

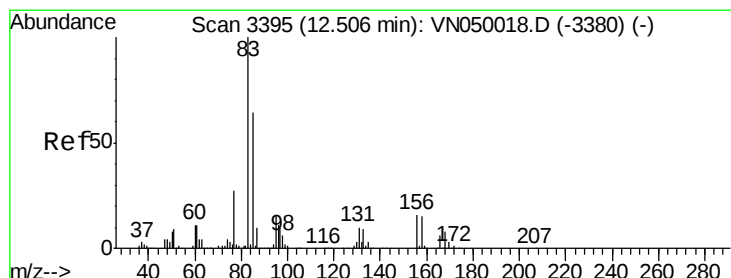
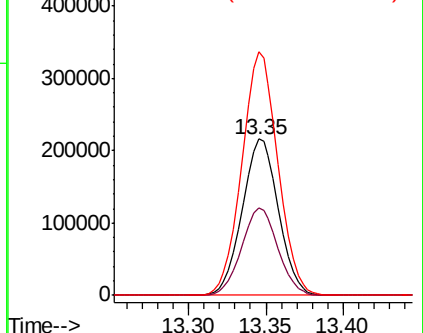
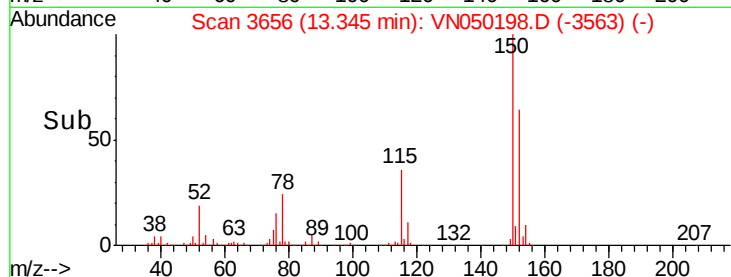
150 154.3 0.0 348.6



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: VN050198.D

Acq: 30 Jul 2018 19:41

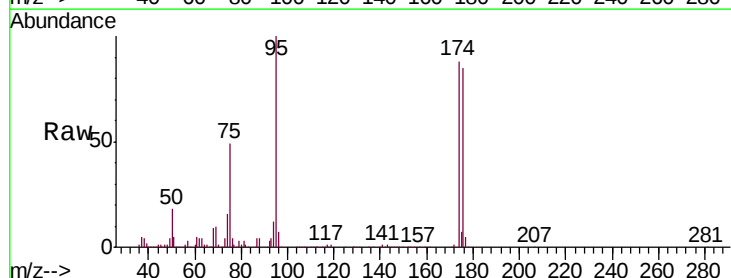
Tgt Ion: 83 Resp: 303

Ion Ratio Lower Upper

83 100

131 169.6 5.1 15.3#

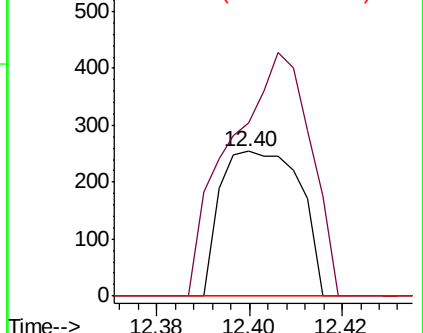
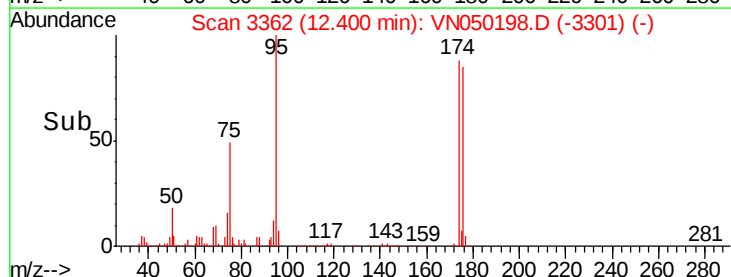
85 0.0 32.3 96.8#

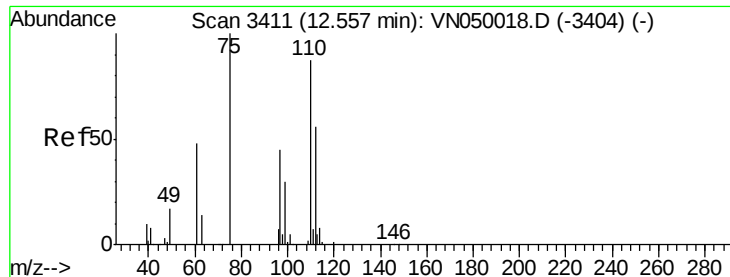


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 31.64 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050198.D

Acq: 30 Jul 2018 19:41

Instrument :

MSVOA_N

ClientSampleId :

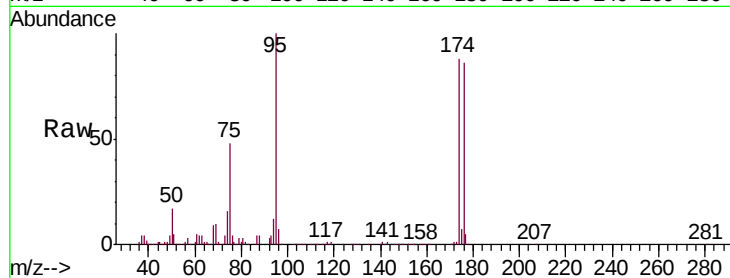
SU-03-072718

Tot Ion: 75 Resp: 207392

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

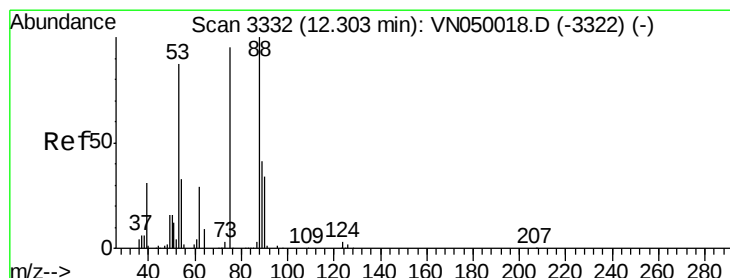
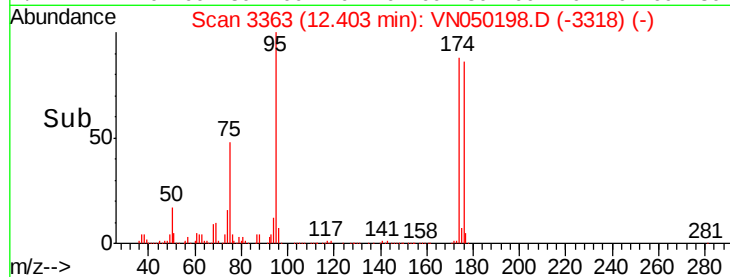
12.40

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 100.36 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050198.D

Acq: 30 Jul 2018 19:41

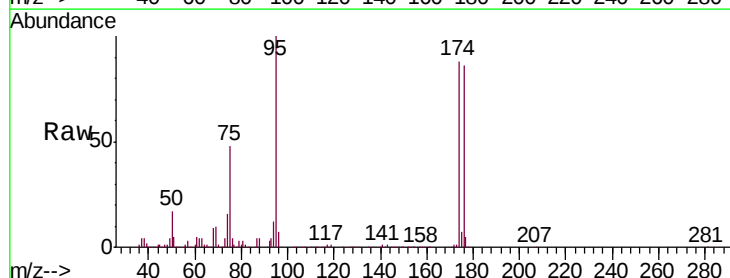
Tgt Ion: 75 Resp: 207392

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

12.40

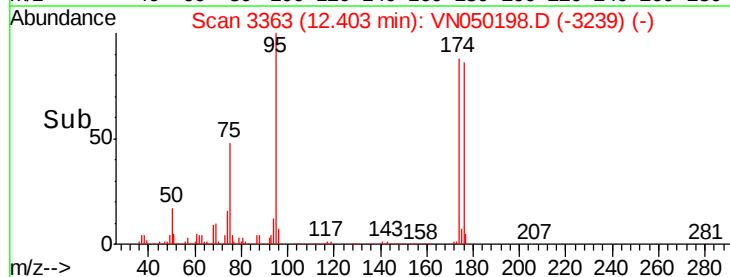
150000

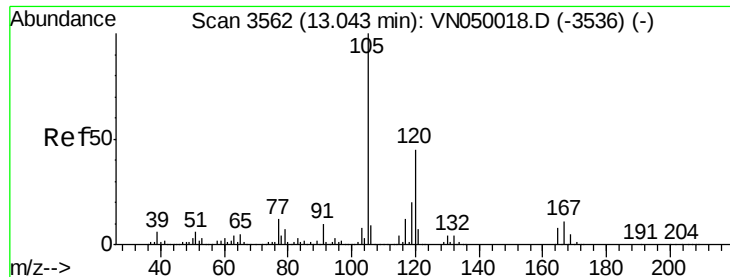
100000

50000

0

Time-->

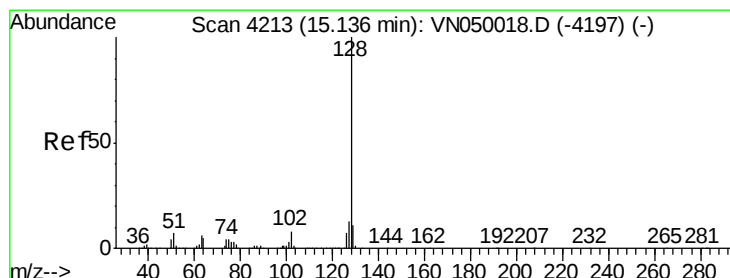
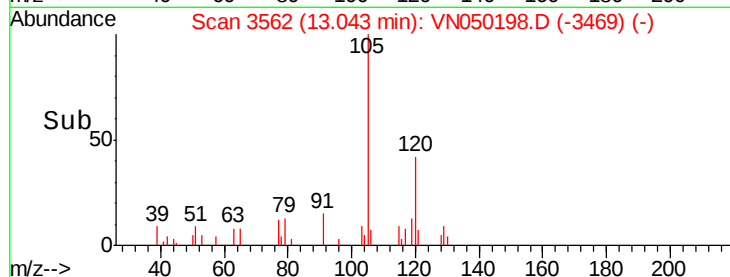
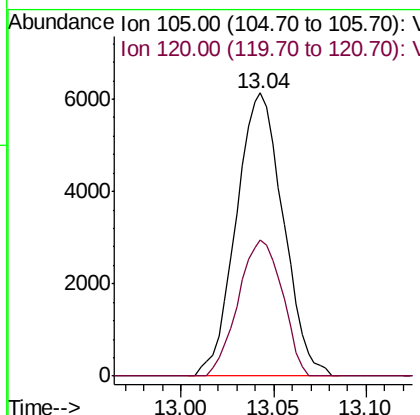
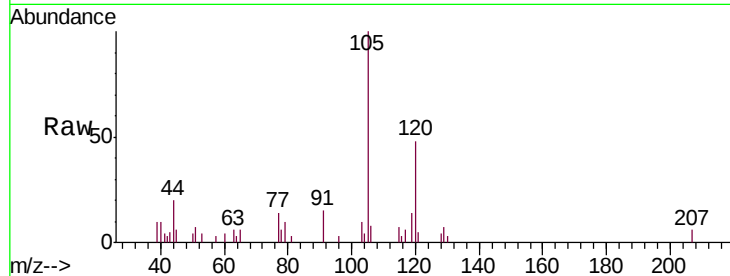




#84
 1,2,4-Trimethylbenzene
 Concen: 0.50 ug/l
 RT: 13.04 min Scan# 3562
 Delta R.T. 0.00 min
 Lab File: VN050198.D
 Acq: 30 Jul 2018 19:41

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-03-072718

Tot Ion:105 Resp: 10778
 Ion Ratio Lower Upper
 105 100
 120 44.9 22.9 68.7



#95
 Naphthalene
 Concen: 11.37 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN050198.D
 Acq: 30 Jul 2018 19:41

Tgt Ion:128 Resp: 122925
 Ion Ratio Lower Upper
 128 100
 127 13.6 10.4 15.6
 129 11.4 8.8 13.2

