

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080718\
 Data File : VN050447.D
 Acq On : 7 Aug 2018 21:38
 Operator : MD\SY
 Sample : PB111813TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111813TB

Quant Time: Aug 08 05:30:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	841313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1315362	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1163083	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	539973	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	522841	46.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.02%	
35) Dibromofluoromethane	7.59	113	477435	45.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.48%	
50) Toluene-d8	10.09	98	1817773	45.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.62%	
62) 4-Bromofluorobenzene	12.40	95	595755	44.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.10%	

Target Compounds

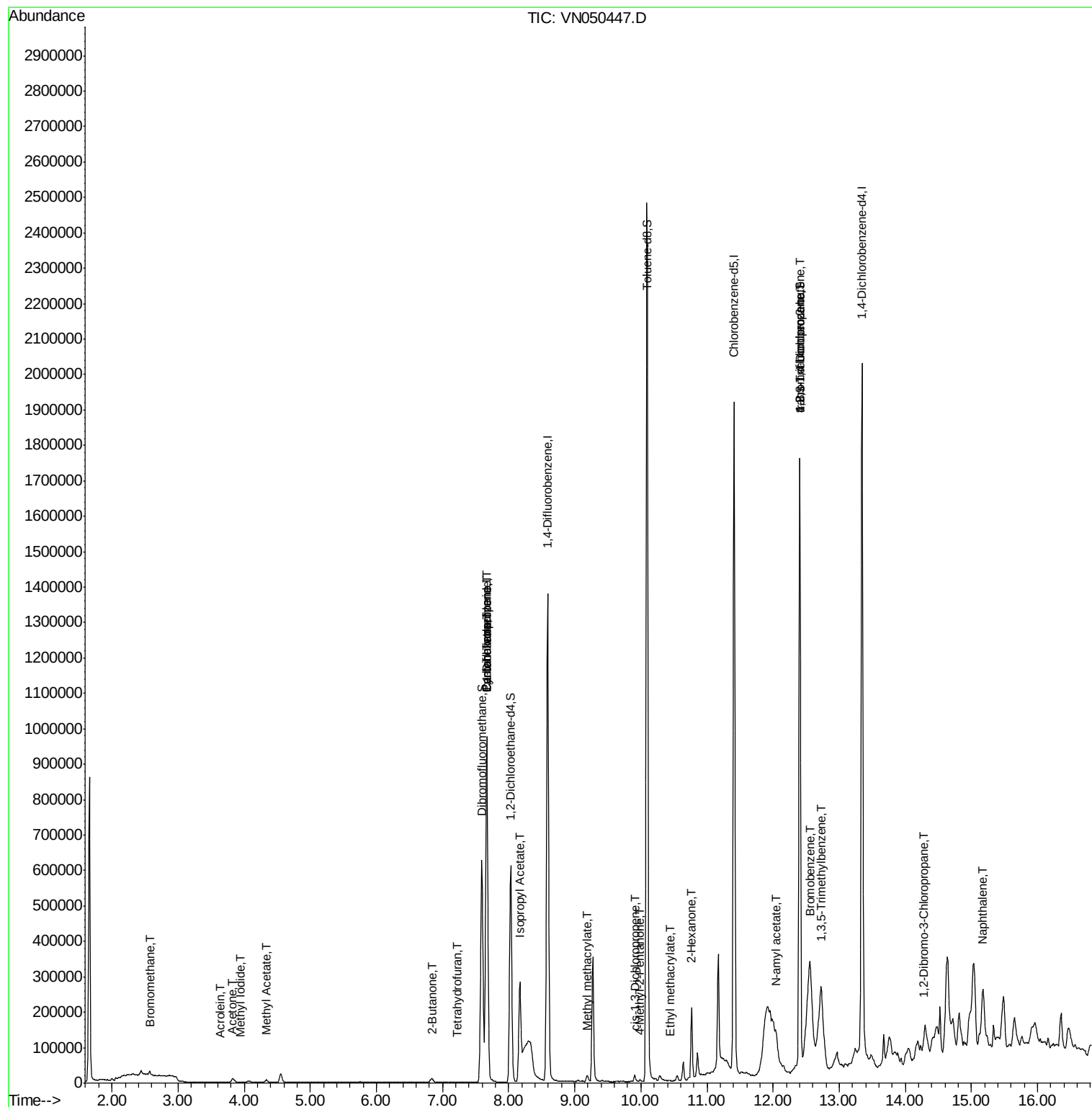
						Qvalue
3) Chloromethane	2.06	50	4131	Below Cal		92
5) Bromomethane	2.57	94	7581	1.46 ug/l		96
10) Methyl Iodide	3.94	142	921	0.22 ug/l #		86
13) Acrolein	3.63	56	102	15.11 ug/l #		15
16) Acetone	3.82	43	20665	5.81 ug/l		97
18) Methyl Acetate	4.34	43	14041	1.42 ug/l		98
25) 2-Butanone	6.85	43	3615	0.65 ug/l		96
29) Tetrahydrofuran	7.22	42	826	0.28 ug/l #		52
31) Cyclohexane	7.67	56	13918	0.24 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	55638	3.85 ug/l #		48
38) Carbon Tetrachloride	7.67	117	76864	5.10 ug/l #		17
43) Isopropyl Acetate	8.17	43	360574	20.07 ug/l		100
48) Methyl methacrylate	9.18	41	11193	1.24 ug/l #		21
51) 4-Methyl-2-Pentanone	9.99	43	2871	0.22 ug/l		92
54) cis-1,3-Dichloropropene	9.91	75	3680	0.22 ug/l #		60
56) Ethyl methacrylate	10.44	69	245	1.73 ug/l #		1
59) 2-Hexanone	10.77	43	27563	3.05 ug/l #		57
74) N-amyl acetate	12.05	43	2791	0.21 ug/l #		59
76) 1,2,3-Trichloropropane	12.40	75	283972	29.05 ug/l #		100
77) Bromobenzene	12.55	156	423713	39.02 ug/l #		1
80) 1,3,5-Trimethylbenzene	12.73	105	15350	0.47 ug/l		72
81) trans-1,4-Dichloro-2-buten	12.40	75	283972	102.08 ug/l #		13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	893	0.45 ug/l #		14
95) Naphthalene	15.17	128	17640	4.25 ug/l #		26

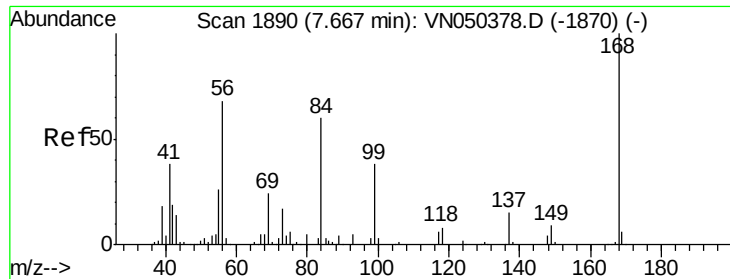
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 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: VN050447.D

Acq: 7 Aug 2018 21:38

Instrument :

MSVOA_N

ClientSampleId :

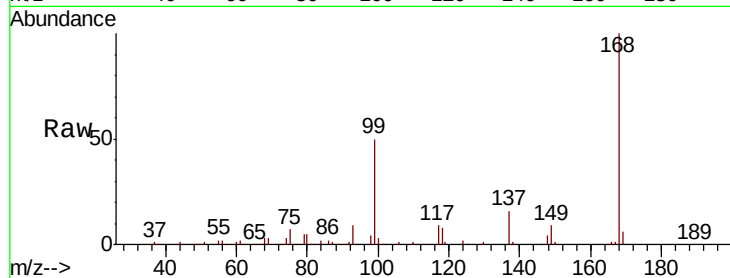
PB111813TB

Tot Ion:168 Resp: 841313

Ion Ratio Lower Upper

168 100

99 50.0 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

400000

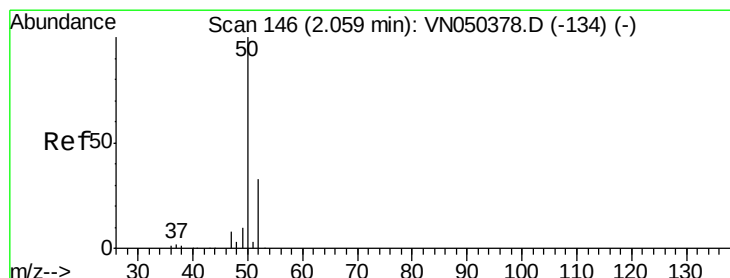
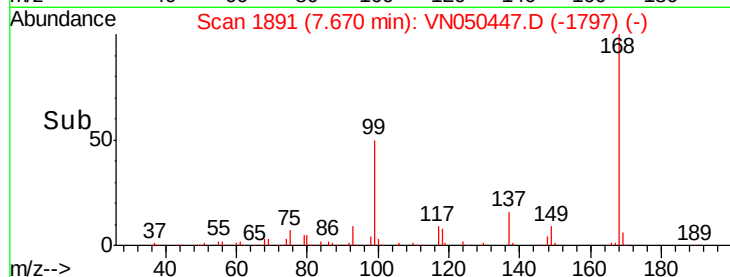
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050447.D

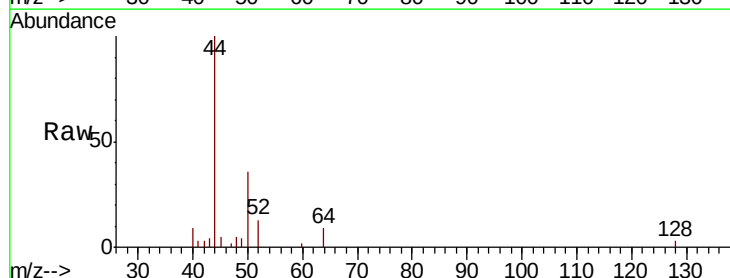
Acq: 7 Aug 2018 21:38

Tgt Ion: 50 Resp: 4131

Ion Ratio Lower Upper

50 100

52 36.6 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

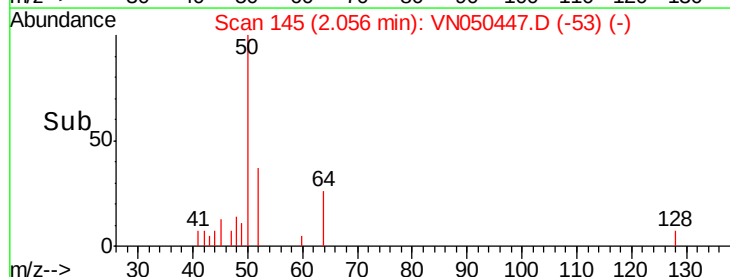
3000

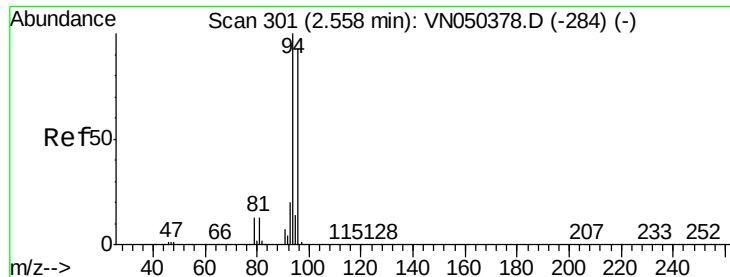
2000

1000

0

Time-->





#5

Bromomethane

Concen: 1.46 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050447.D

Acq: 7 Aug 2018 21:38

Instrument :

MSVOA_N

ClientSampleId :

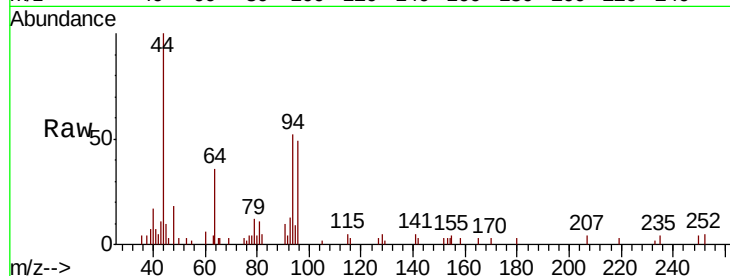
PB111813TB

Tot Ion: 94 Resp: 7581

Ion Ratio Lower Upper

94 100

96 89.1 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050378.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050378.D (-284) (-)

2.57

4000

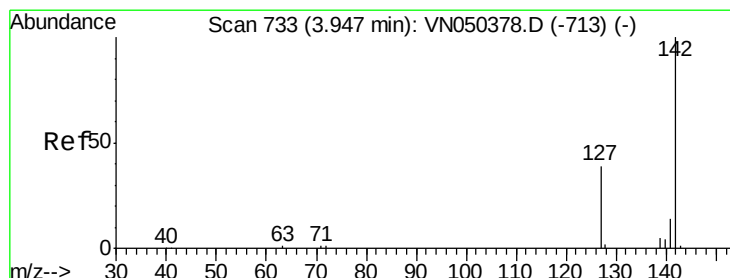
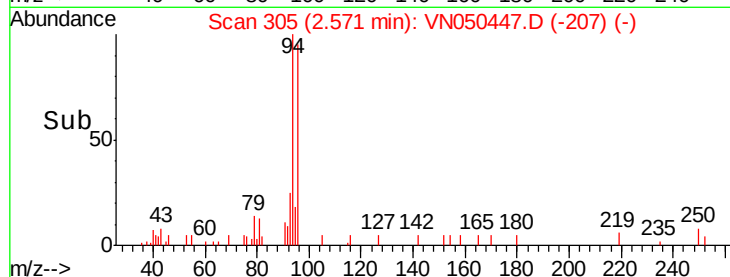
3000

2000

1000

0

Time-->



#10

Methyl Iodide

Concen: 0.22 ug/l

RT: 3.94 min Scan# 732

Delta R.T. -0.00 min

Lab File: VN050447.D

Acq: 7 Aug 2018 21:38

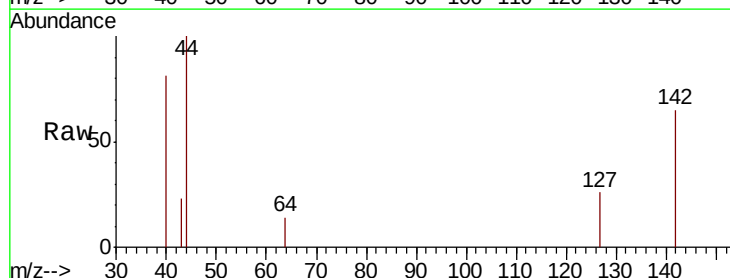
Tgt Ion: 142 Resp: 921

Ion Ratio Lower Upper

142 100

127 45.7 33.4 50.2

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): VN050378.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050378.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050378.D (-713) (-)

3.94

1000

800

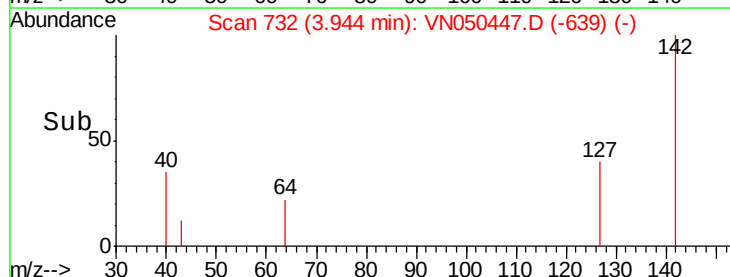
600

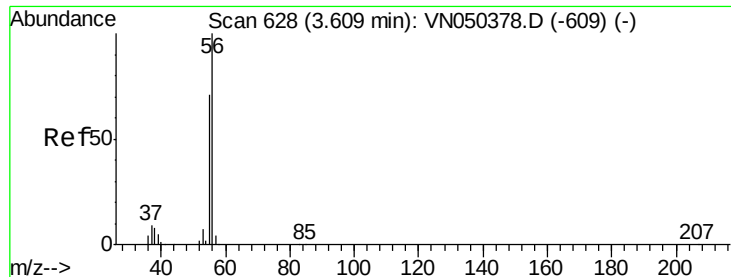
400

200

0

Time-->





#13

Acrolein

Concen: 15.11 ug/l

RT: 3.63 min Scan# 634

Delta R.T. 0.02 min

Lab File: VN050447.D

Acq: 7 Aug 2018 21:38

Instrument :

MSVOA_N

ClientSampled :

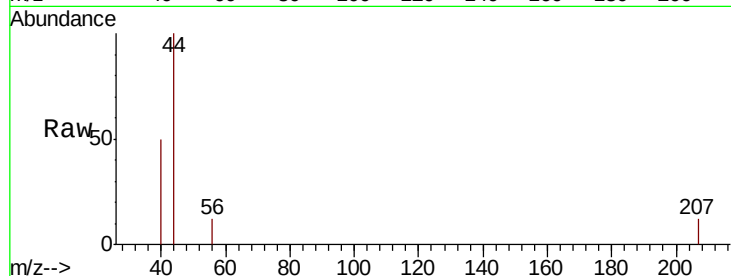
PB111813TB

Tot Ion: 56 Resp: 102

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.63

200

150

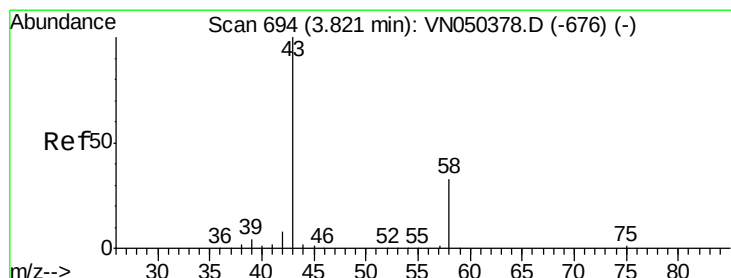
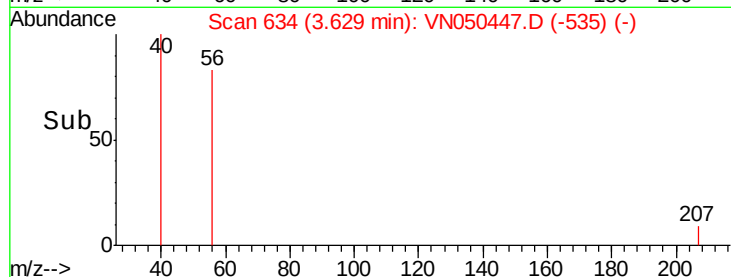
100

50

0

3.61 3.62 3.63 3.64

Time-->



#16

Acetone

Concen: 5.81 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050447.D

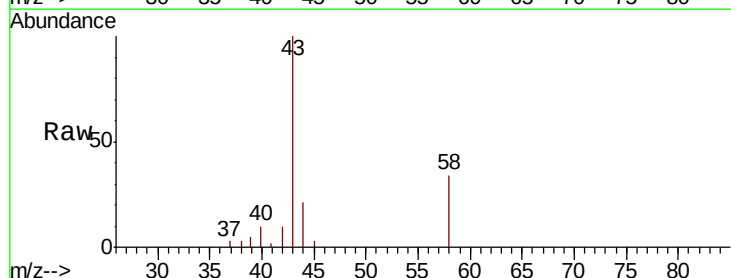
Acq: 7 Aug 2018 21:38

Tgt Ion: 43 Resp: 20665

Ion Ratio Lower Upper

43 100

58 33.7 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

8000

6000

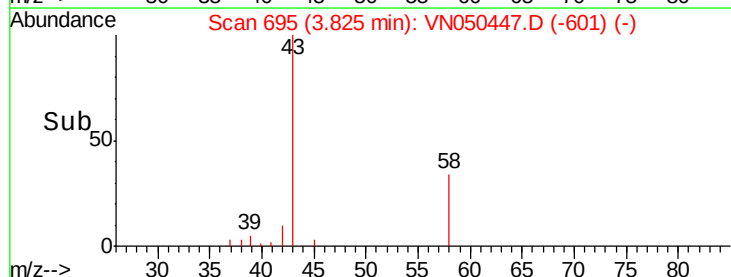
4000

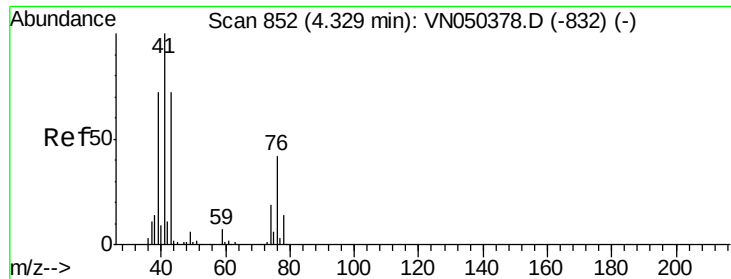
2000

0

3.75 3.80 3.85 3.90

Time-->

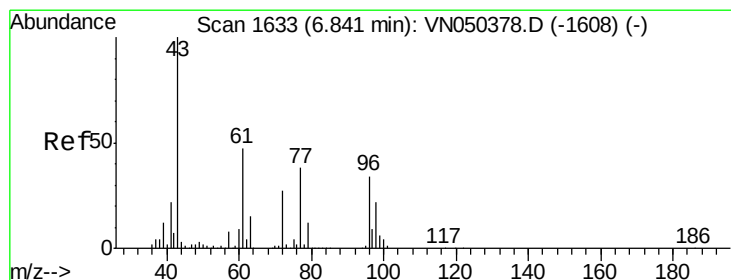
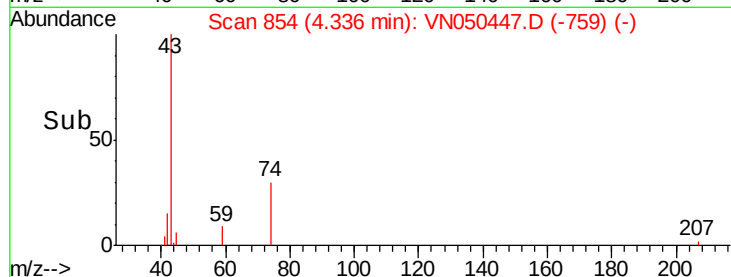
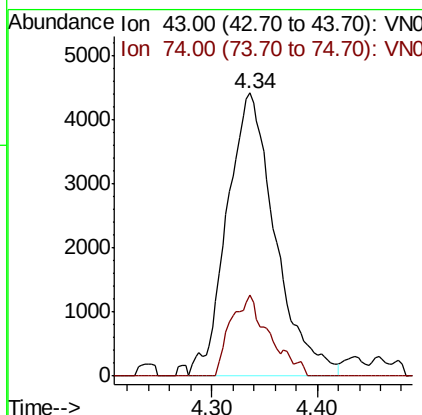
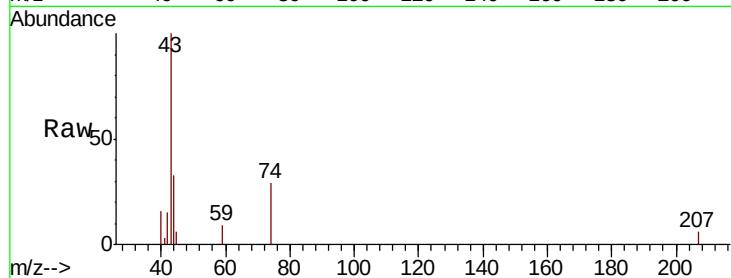




#18
Methvl Acetate
Concen: 1.42 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050447.D
Acq: 7 Aug 2018 21:38

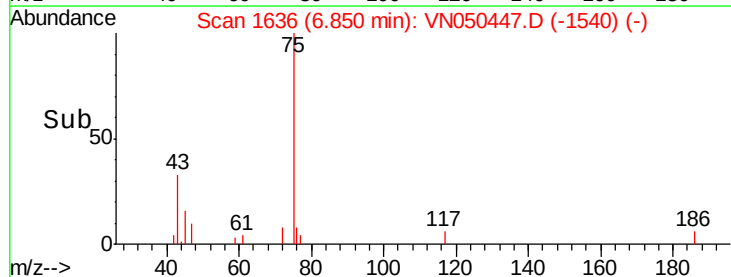
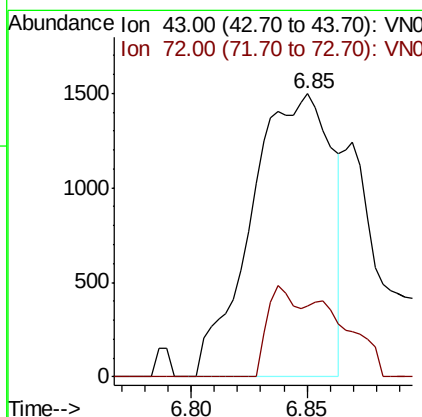
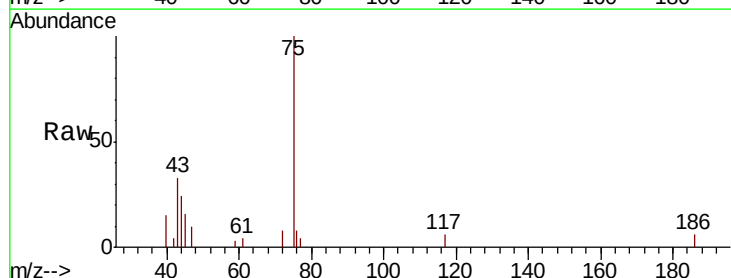
Instrument :
MSVOA_N
ClientSampleId :
PB111813TB

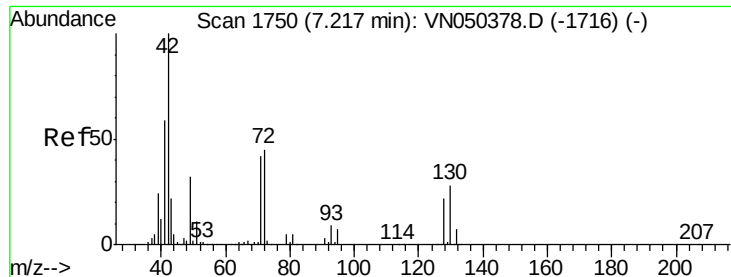
Tot Ion: 43 Resp: 14041
Ion Ratio Lower Upper
43 100
74 23.1 19.2 28.8



#25
2-Butanone
Concen: 0.65 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050447.D
Acq: 7 Aug 2018 21:38

Tgt Ion: 43 Resp: 3615
Ion Ratio Lower Upper
43 100
72 25.1 21.5 32.3





#29

Tetrahydrofuran

Concen: 0.28 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN050447.D

Acq: 7 Aug 2018 21:38

Instrument :

MSVOA_N

ClientSampleId :

PB111813TB

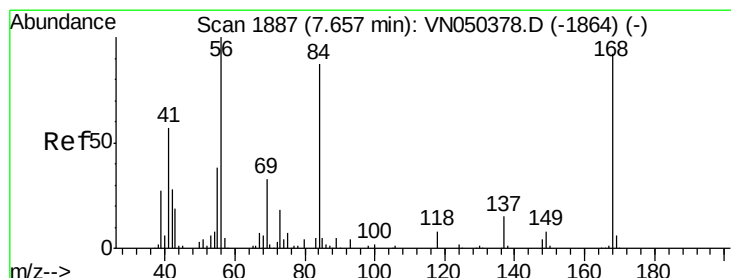
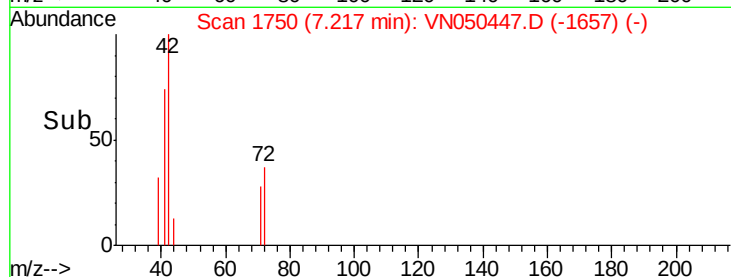
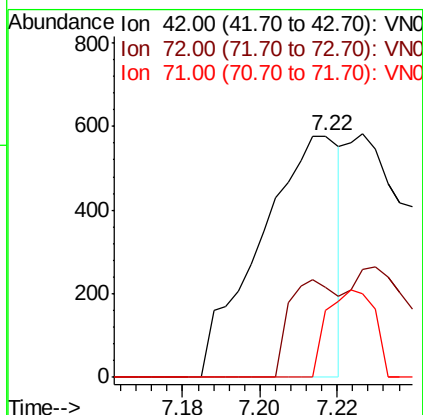
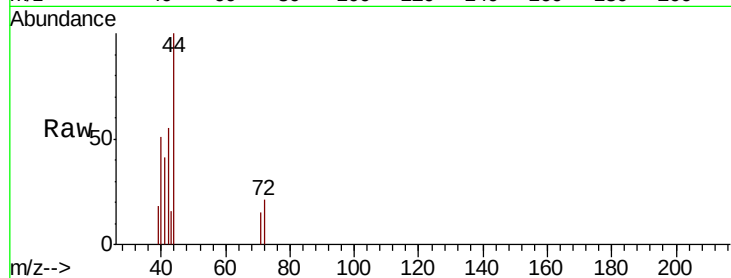
Tot Ion: 42 Resp: 826

Ion Ratio Lower Upper

42 100

72 24.3 35.9 53.9#

71 0.0 33.7 50.5#



#31

Cyclohexane

Concen: 0.24 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050447.D

Acq: 7 Aug 2018 21:38

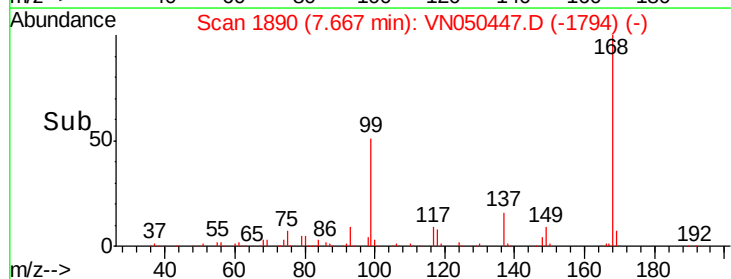
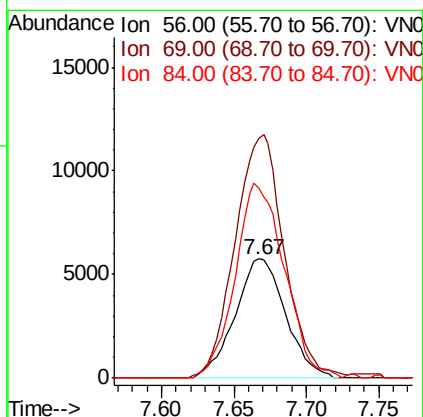
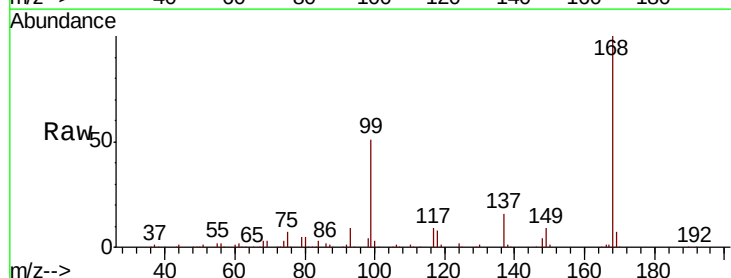
Tgt Ion: 56 Resp: 13918

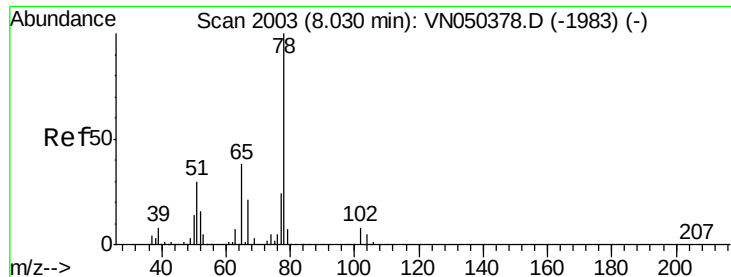
Ion Ratio Lower Upper

56 100

69 200.6 26.2 39.4#

84 158.8 67.4 101.0#

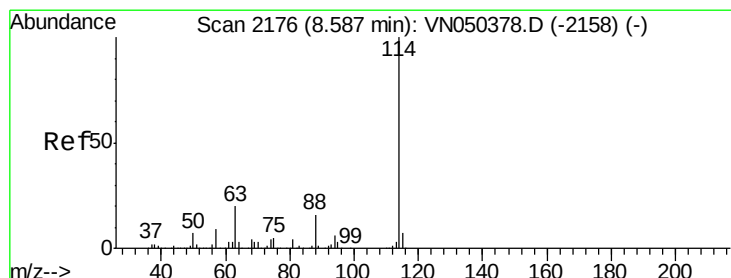
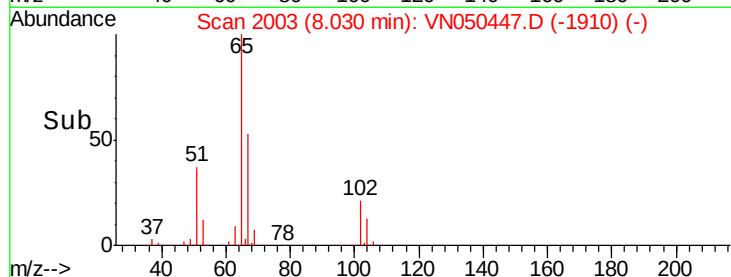
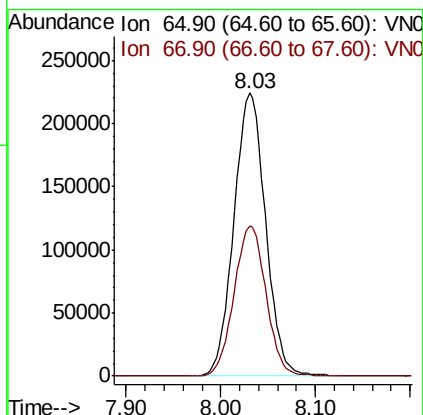
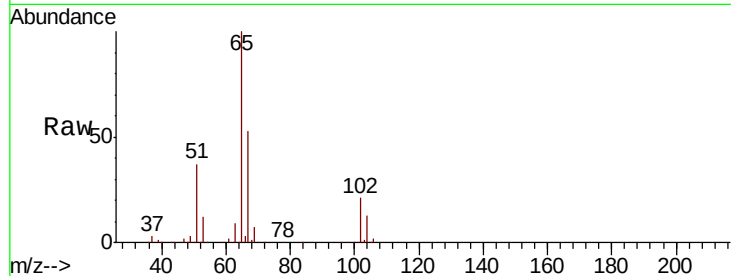




#33
 1,2-Dichloroethane-d4
 Concen: 46.51 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050447.D
 Acq: 7 Aug 2018 21:38

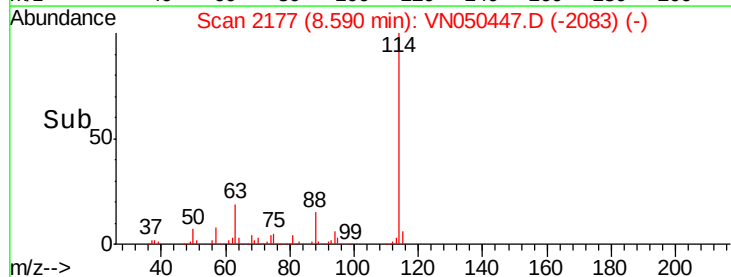
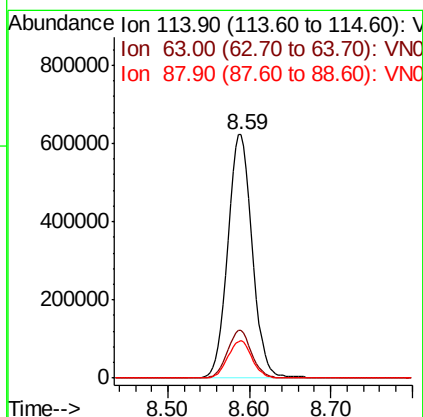
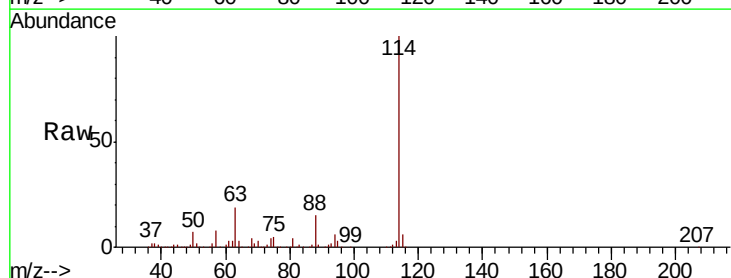
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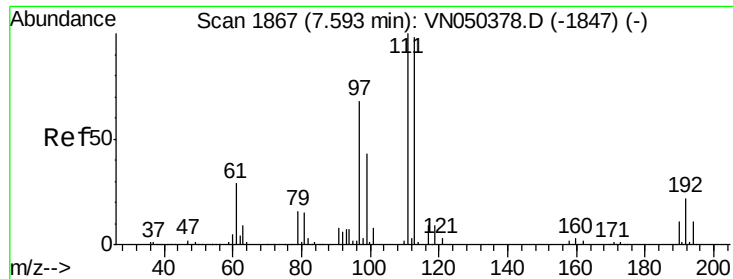
Tot Ion: 65 Resp: 522841
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050447.D
 Acq: 7 Aug 2018 21:38

Tgt Ion: 114 Resp: 1315362
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 15.2 0.0 31.2

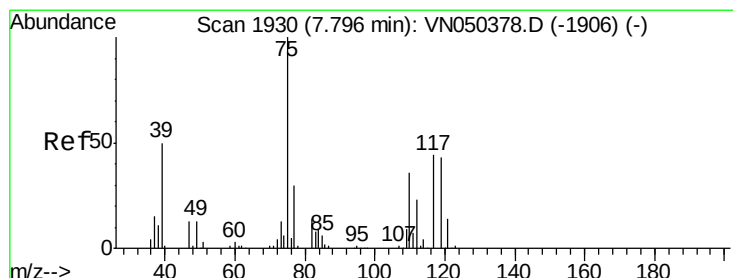
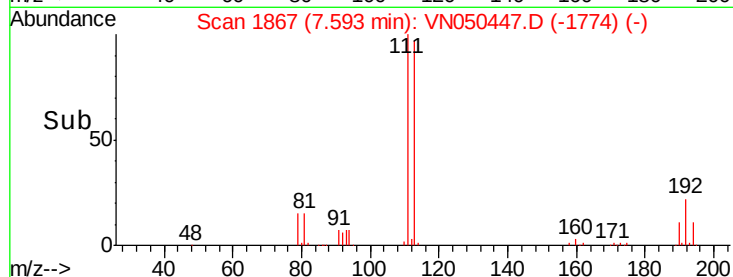
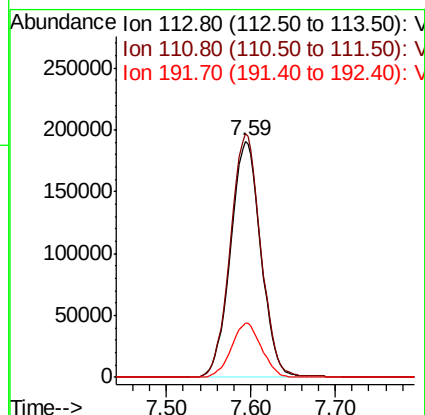
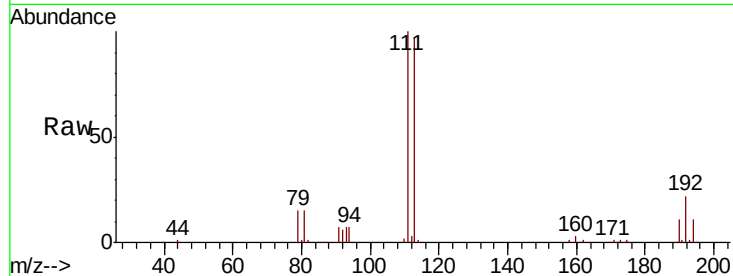




#35
 Dibromofluoromethane
 Concen: 45.24 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050447.D
 Acq: 7 Aug 2018 21:38

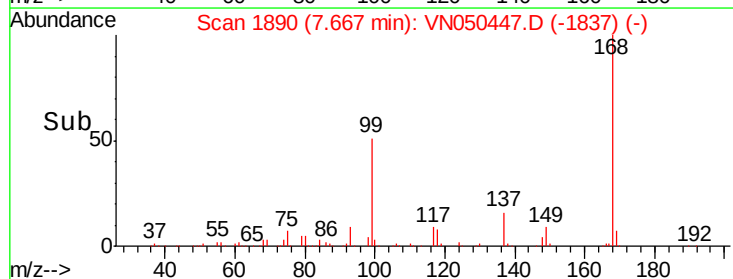
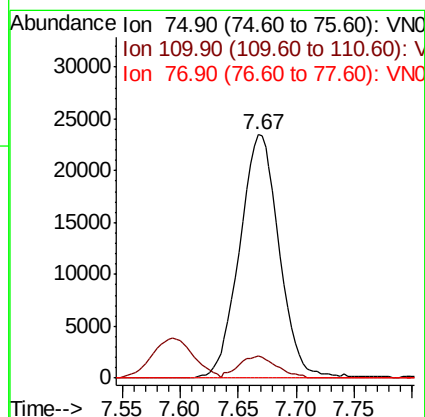
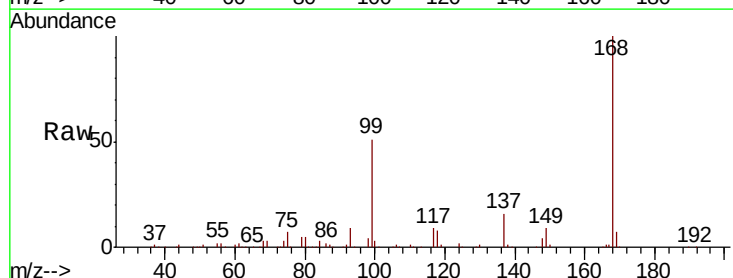
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111813TB

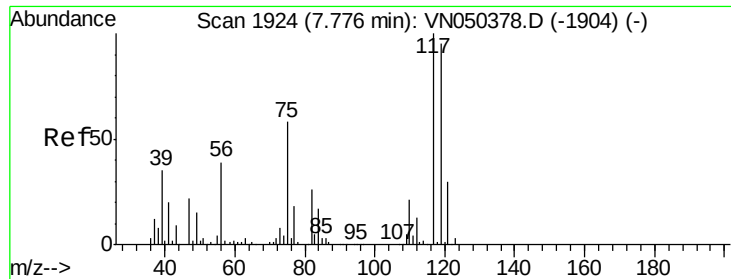
Tot Ion:113 Resp: 477435
 Ion Ratio Lower Upper
 113 100
 111 103.5 80.7 121.1
 192 22.9 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.85 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050447.D
 Acq: 7 Aug 2018 21:38

Tgt Ion: 75 Resp: 55638
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.4 55.2#
 77 0.0 25.3 37.9#

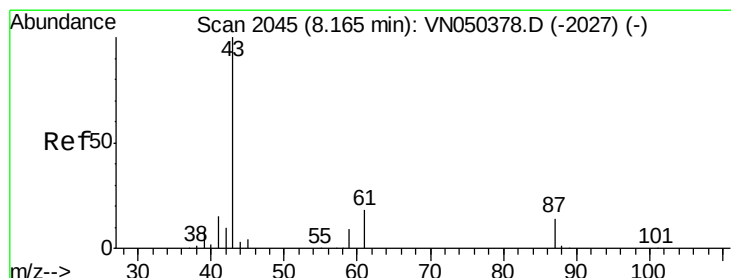
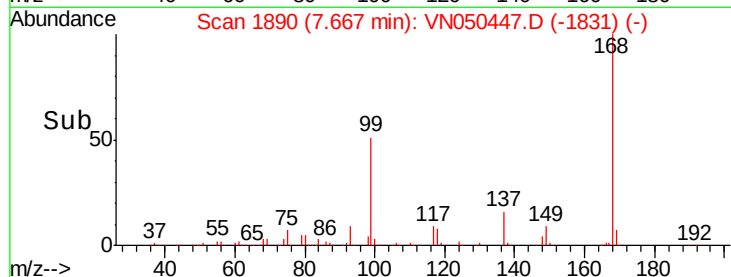
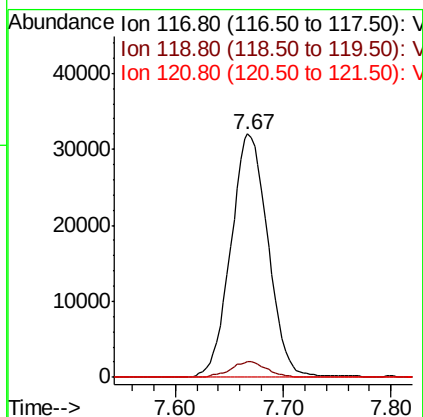
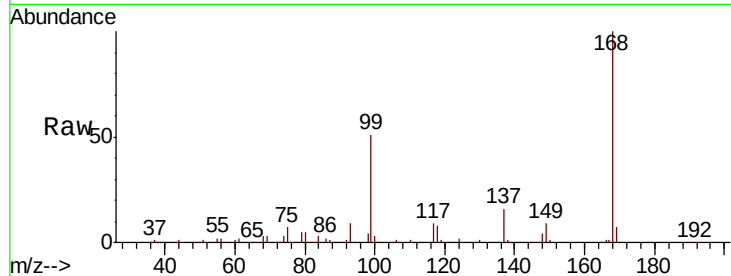




#38
Carbon Tetrachloride
Concen: 5.10 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050447.D
Acq: 7 Aug 2018 21:38

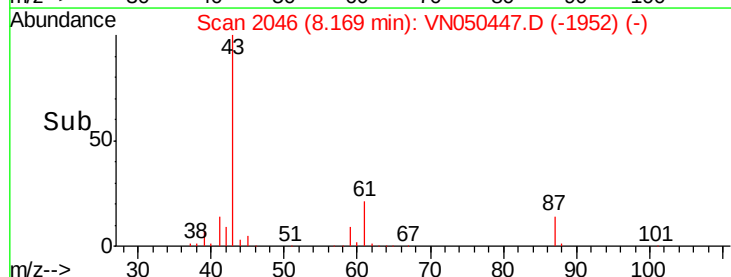
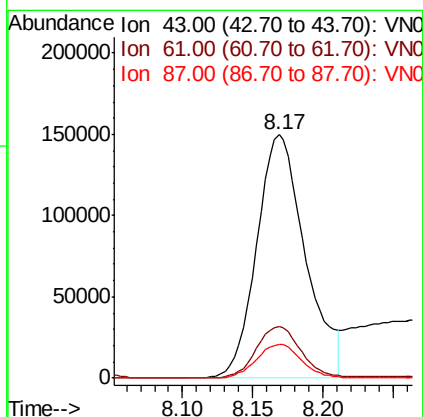
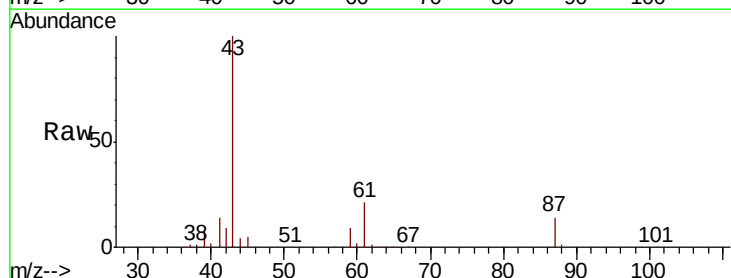
Instrument :
MSVOA_N
ClientSampled :
PB111813TB

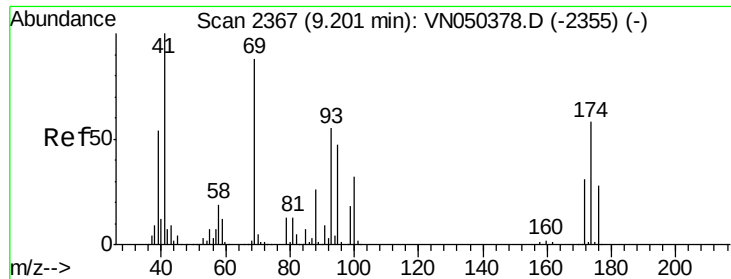
Tot Ion:117 Resp: 76864
Ion Ratio Lower Upper
117 100
119 6.5 77.4 116.0#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 20.07 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050447.D
Acq: 7 Aug 2018 21:38

Tgt Ion: 43 Resp: 360574
Ion Ratio Lower Upper
43 100
61 19.7 15.8 23.6
87 12.9 10.3 15.5

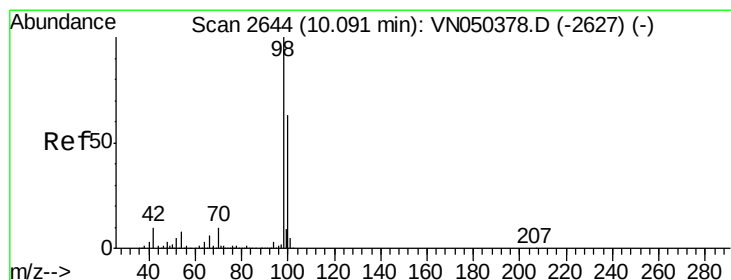
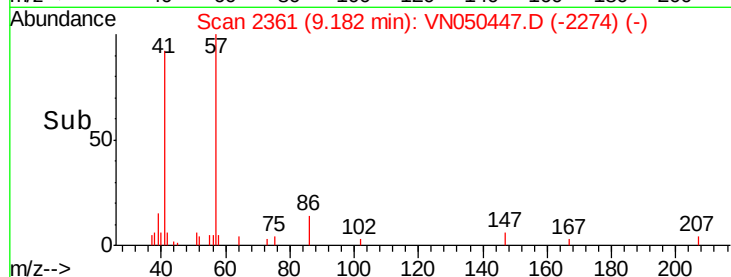
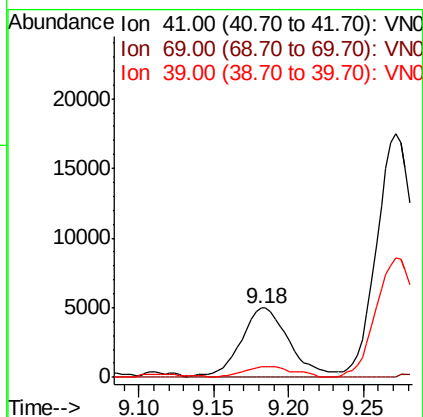
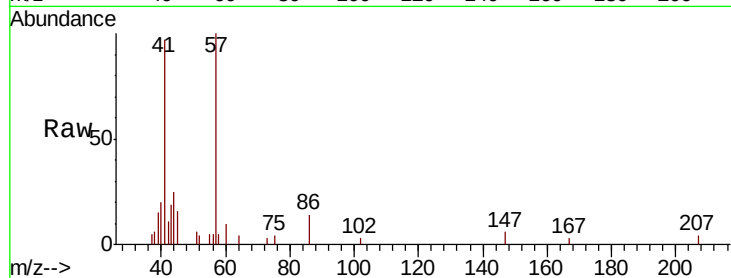




#48
Methvl methacrylate
Concen: 1.24 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050447.D
Acq: 7 Aug 2018 21:38

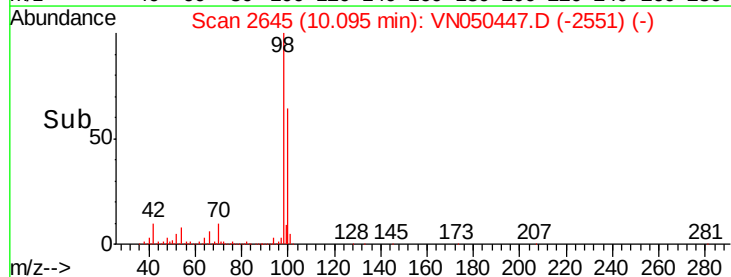
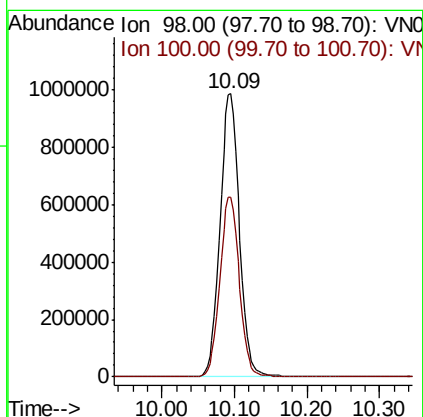
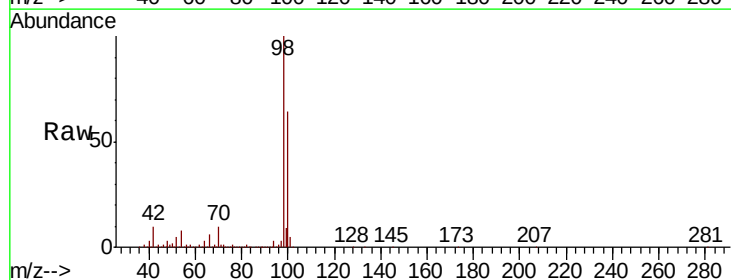
Instrument :
MSVOA_N
ClientSampleId :
PB111813TB

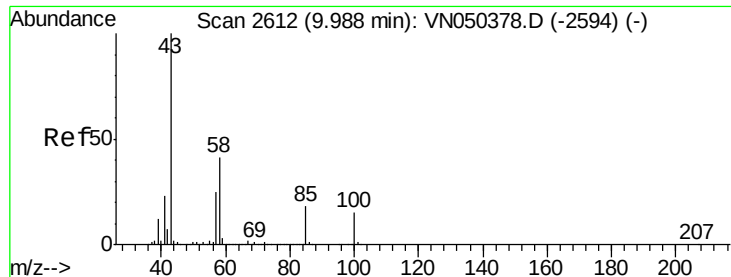
Tot Ion: 41 Resp: 11193
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 16.4 43.9 65.9#



#50
Toluene-d8
Concen: 45.81 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050447.D
Acq: 7 Aug 2018 21:38

Tgt Ion: 98 Resp: 1817773
Ion Ratio Lower Upper
98 100
100 64.1 50.7 76.1

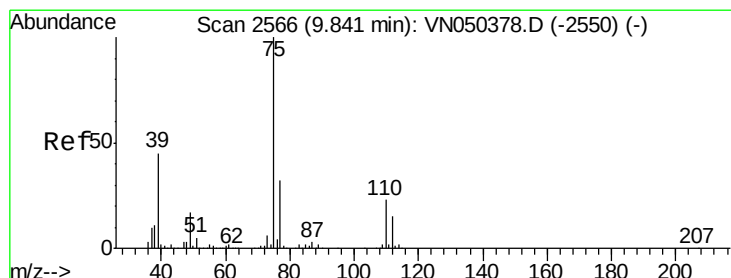
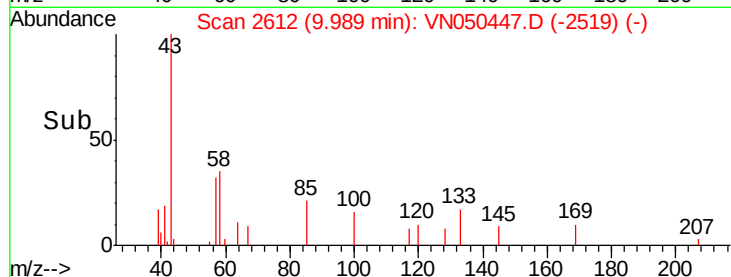
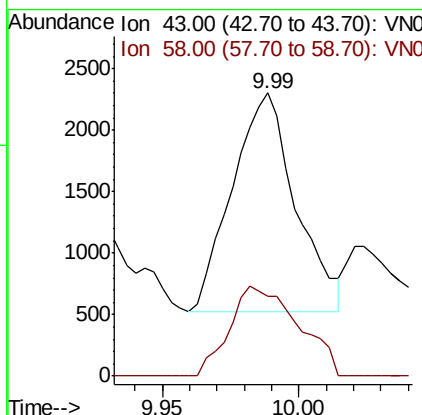
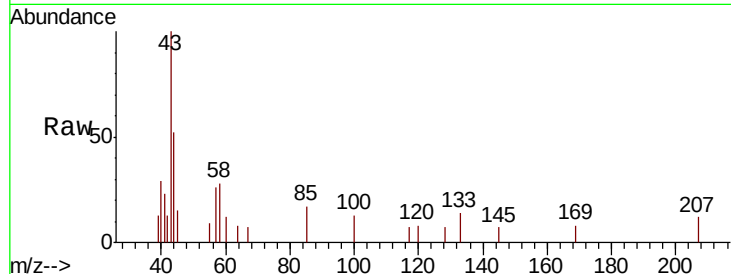




#51
 4-Methyl-2-Pentanone
 Concen: 0.22 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. 0.00 min
 Lab File: VN050447.D
 Acq: 7 Aug 2018 21:38

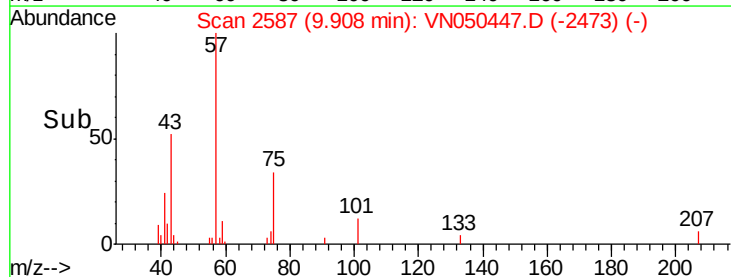
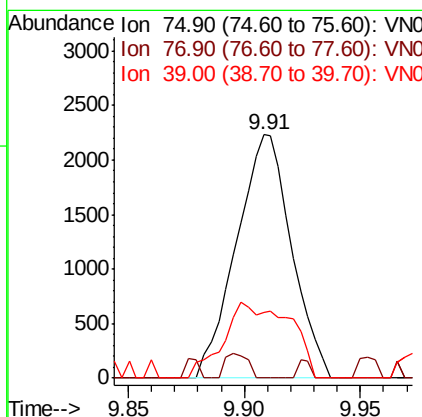
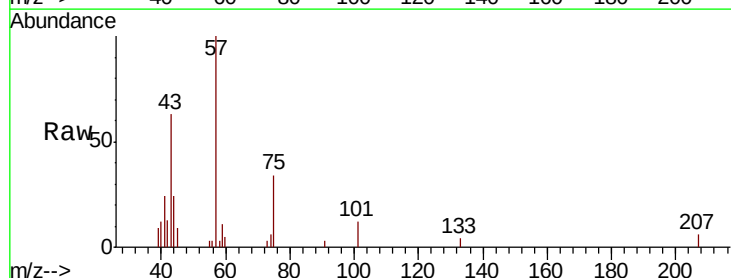
Instrument :
 MSVOA_N
 ClientSampled :
 PB111813TB

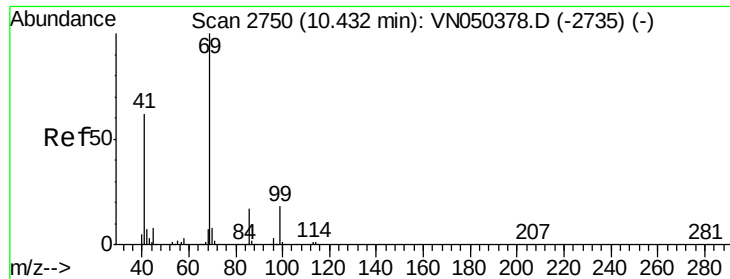
Tot Ion: 43 Resp: 2871
 Ion Ratio Lower Upper
 43 100
 58 44.6 31.9 47.9



#54
 cis-1,3-Dichloropropene
 Concen: 0.22 ug/l
 RT: 9.91 min Scan# 2587
 Delta R.T. 0.07 min
 Lab File: VN050447.D
 Acq: 7 Aug 2018 21:38

Tgt Ion: 75 Resp: 3680
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 26.9 36.6 55.0#





#56

Ethyl methacrylate

Concen: 1.73 ug/l

RT: 10.44 min Scan# 2753

Delta R.T. 0.01 min

Lab File: VN050447.D

Acq: 7 Aug 2018 21:38

Instrument :

MSVOA_N

ClientSampled :

PB111813TB

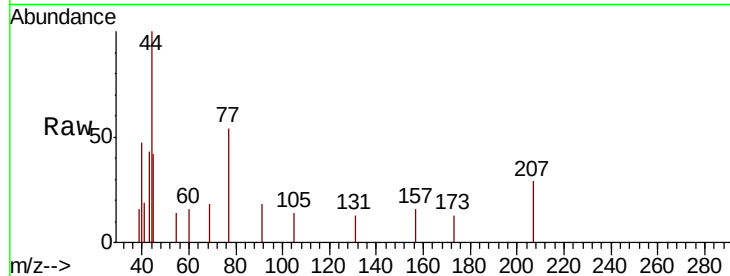
Tot Ion: 69 Resp: 245

Ion Ratio Lower Upper

69 100

41 245.7 51.0 76.4#

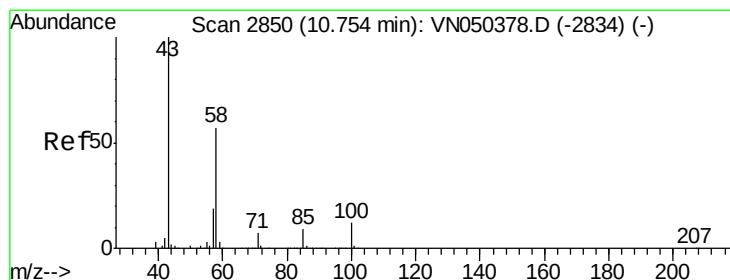
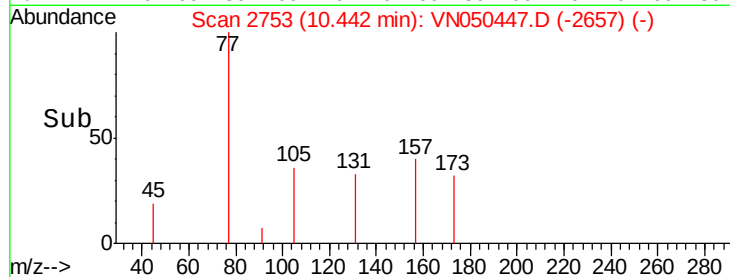
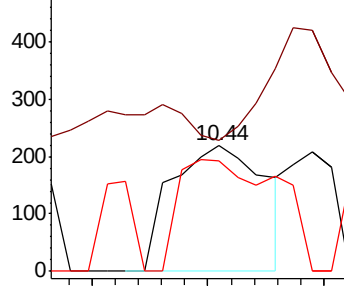
39 94.3 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 3.05 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050447.D

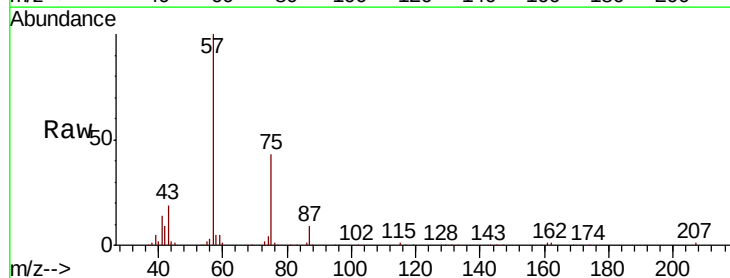
Acq: 7 Aug 2018 21:38

Tgt Ion: 43 Resp: 27563

Ion Ratio Lower Upper

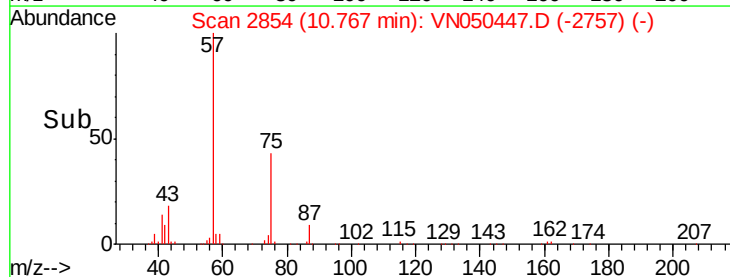
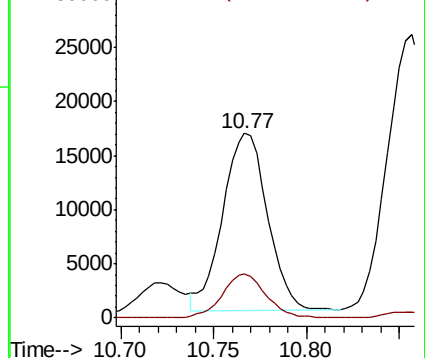
43 100

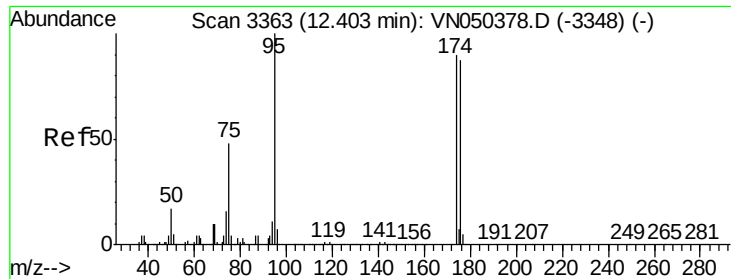
58 24.0 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

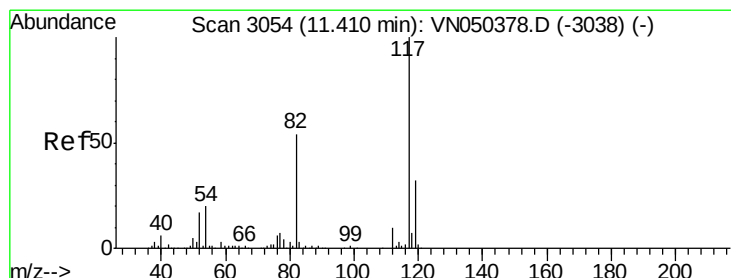
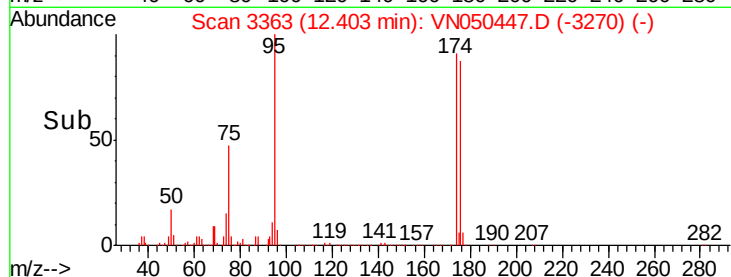
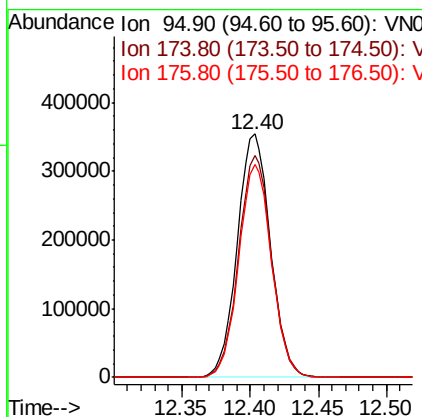
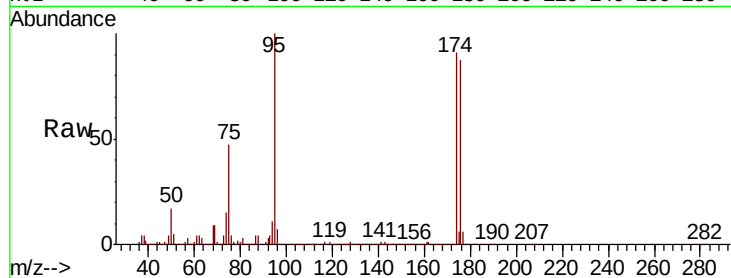




#62
 4-Bromofluorobenzene
 Concen: 44.05 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050447.D
 Acq: 7 Aug 2018 21:38

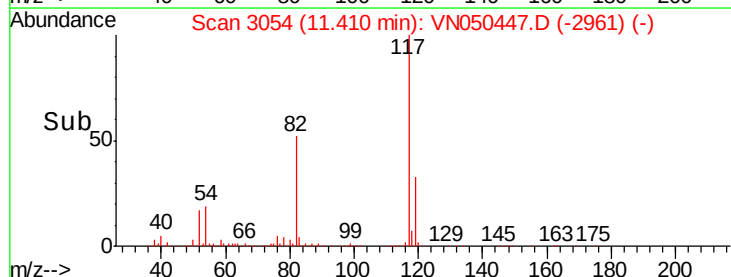
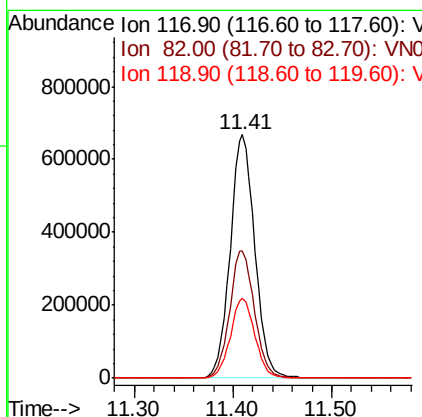
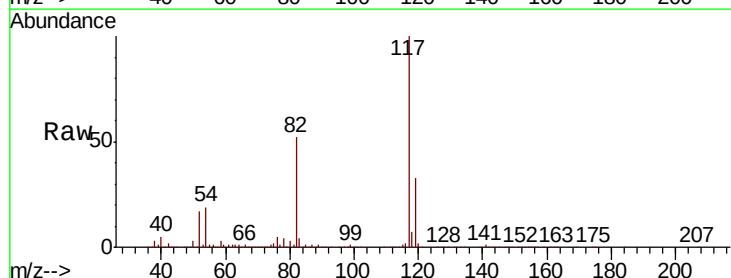
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111813TB

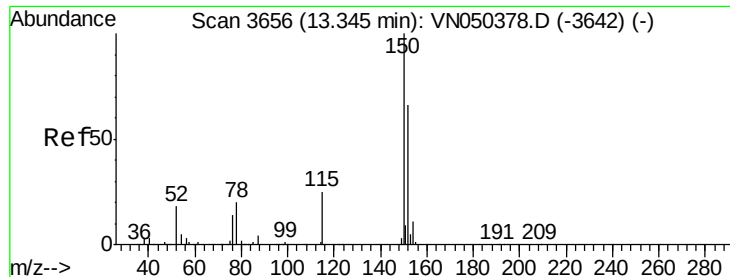
Tot Ion: 95 Resp: 595755
 Ion Ratio Lower Upper
 95 100
 174 90.5 0.0 178.2
 176 86.8 0.0 173.4



#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 11.41 min Scan# 3054
 Delta R.T. 0.00 min
 Lab File: VN050447.D
 Acq: 7 Aug 2018 21:38

Tgt Ion: 117 Resp: 1163083
 Ion Ratio Lower Upper
 117 100
 82 52.4 43.7 65.5
 119 32.8 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050447.D

Acq: 7 Aug 2018 21:38

Instrument :

MSVOA_N

ClientSampleId :

PB111813TB

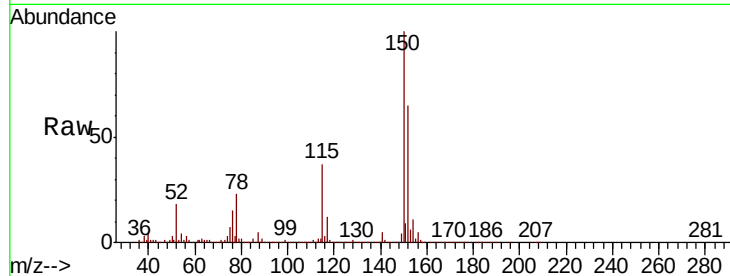
Tot Ion:152 Resp: 539973

Ion Ratio Lower Upper

152 100

115 58.8 27.8 83.3

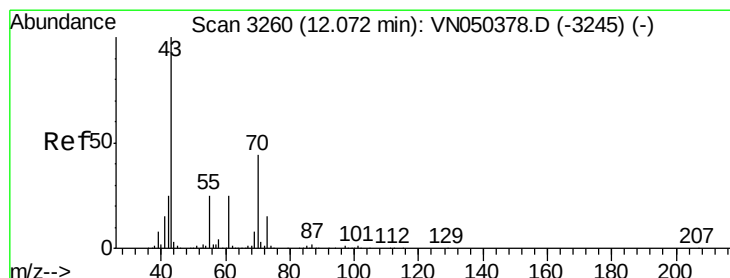
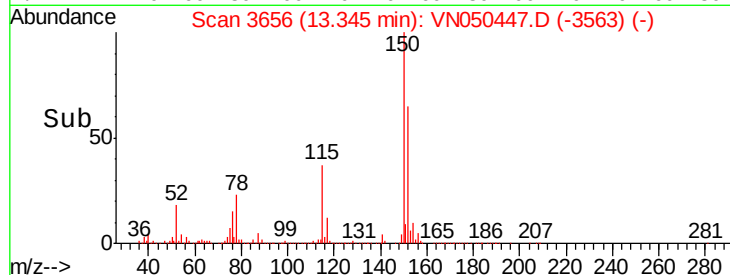
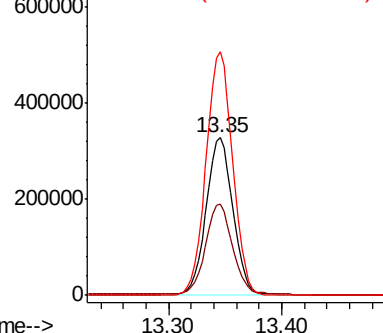
150 153.1 0.0 348.6



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



#74

N-ethyl acetate

Concen: 0.21 ug/l

RT: 12.05 min Scan# 3253

Delta R.T. -0.02 min

Lab File: VN050447.D

Acq: 7 Aug 2018 21:38

Tgt Ion: 43 Resp: 2791

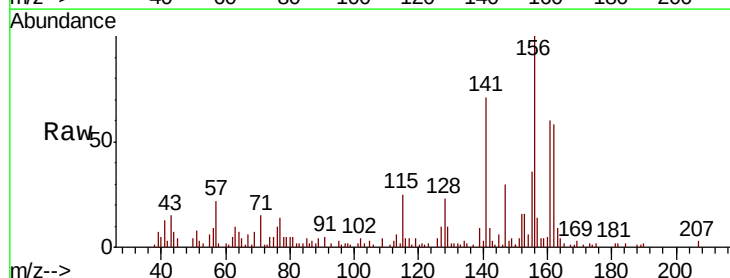
Ion Ratio Lower Upper

43 100

70 7.8 34.4 51.6#

55 11.6 20.8 31.2#

61 9.1 19.7 29.5#

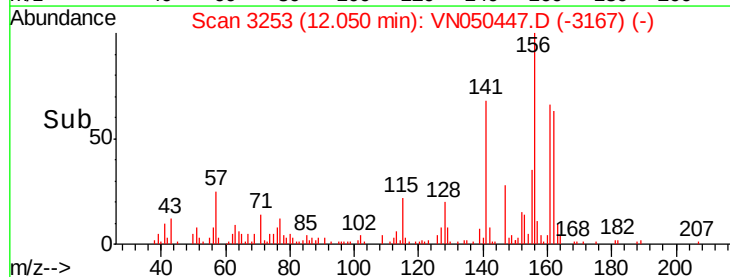
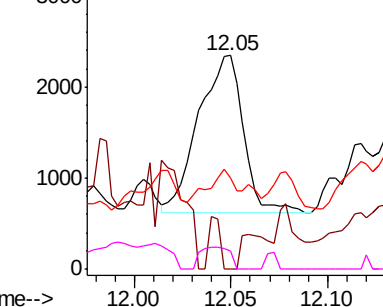


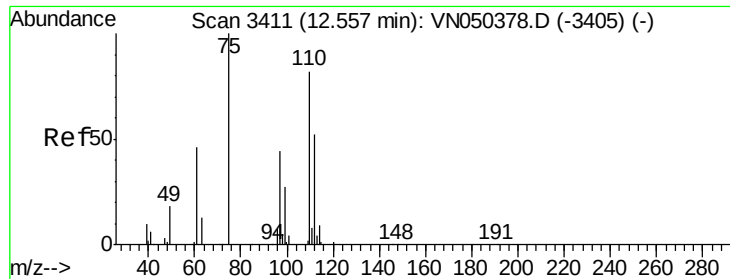
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.05 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050447.D

Acq: 7 Aug 2018 21:38

Instrument :

MSVOA_N

ClientSampleId :

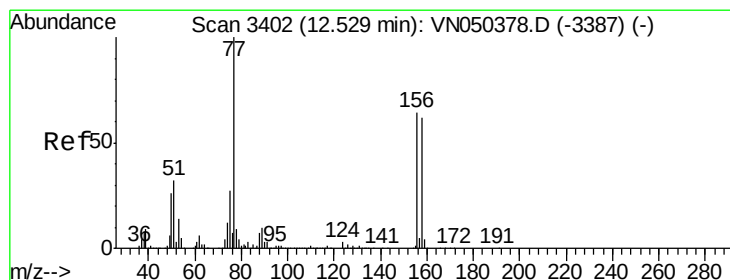
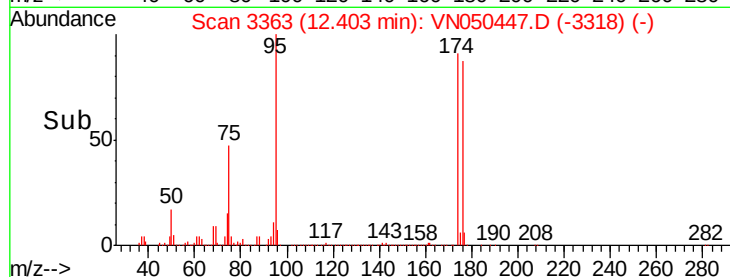
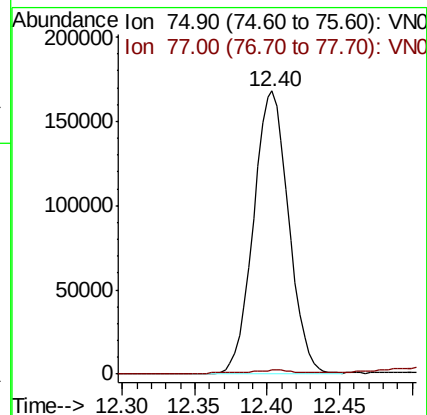
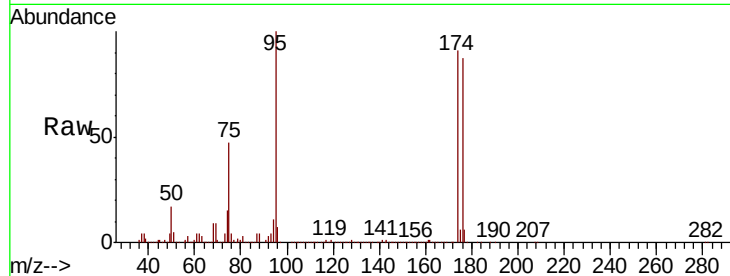
PB111813TB

Tot Ion: 75 Resp: 283972

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



#77

Bromobenzene

Concen: 39.02 ug/l

RT: 12.55 min Scan# 3409

Delta R.T. 0.02 min

Lab File: VN050447.D

Acq: 7 Aug 2018 21:38

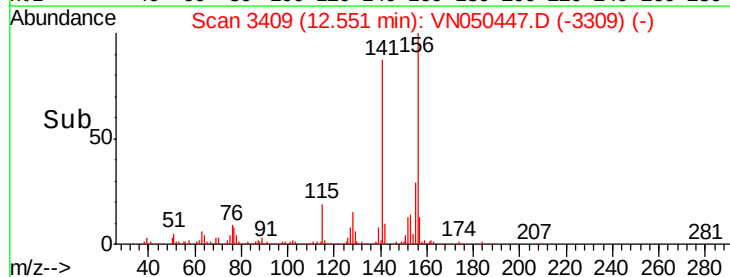
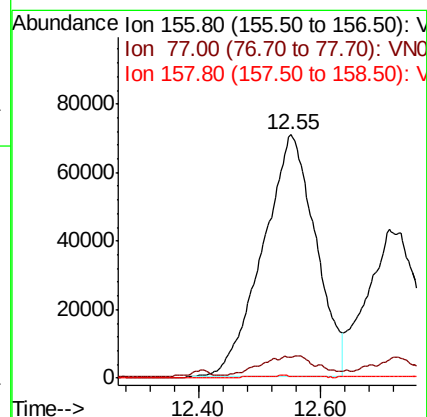
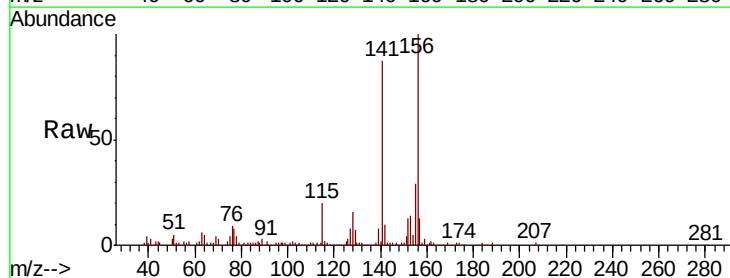
Tgt Ion: 156 Resp: 423713

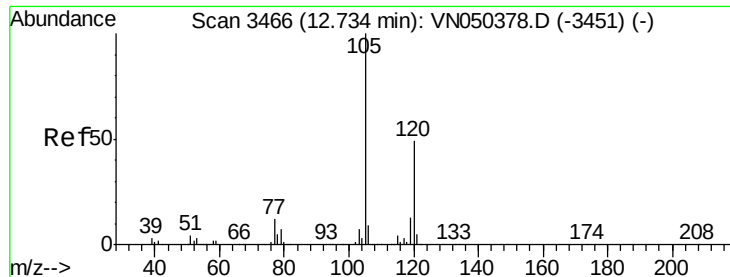
Ion Ratio Lower Upper

156 100

77 0.0 91.7 275.1#

158 0.0 48.9 146.6#

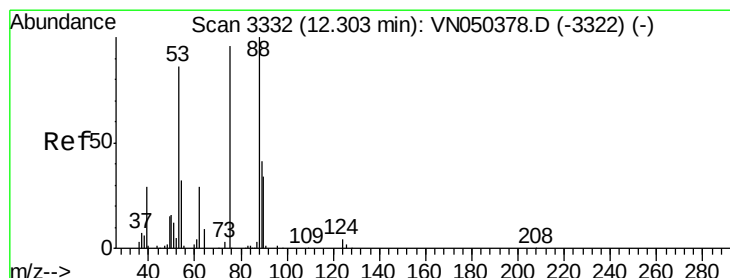
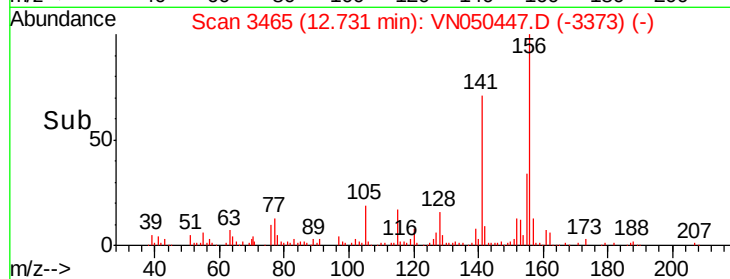
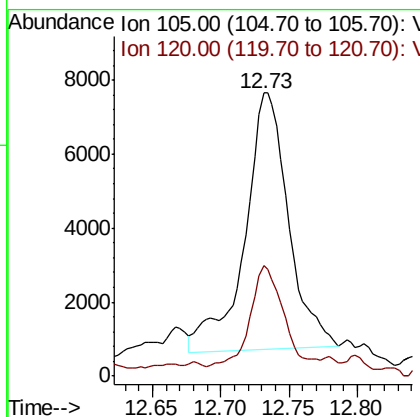
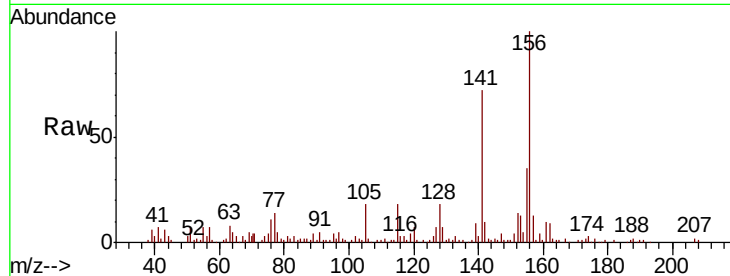




#80
 1,3,5-Trimethylbenzene
 Concen: 0.47 ug/l
 RT: 12.73 min Scan# 3465
 Delta R.T. -0.00 min
 Lab File: VN050447.D
 Acq: 7 Aug 2018 21:38

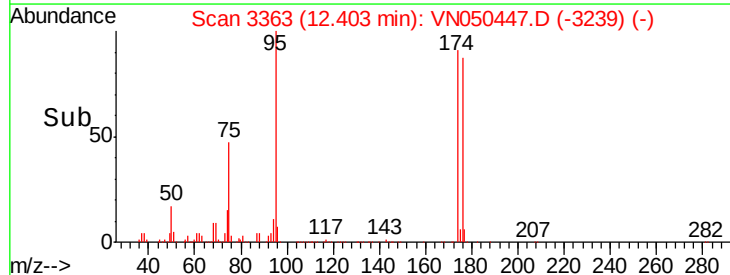
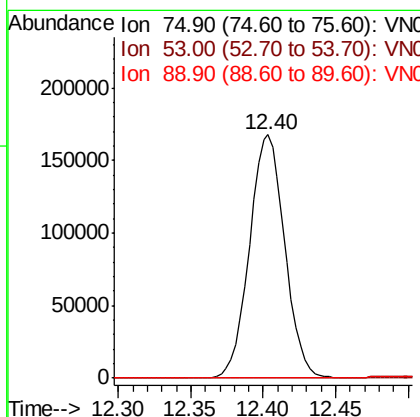
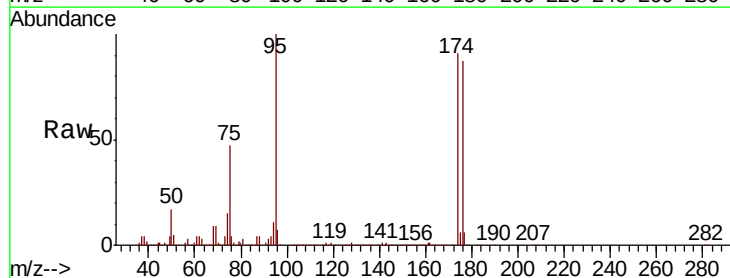
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111813TB

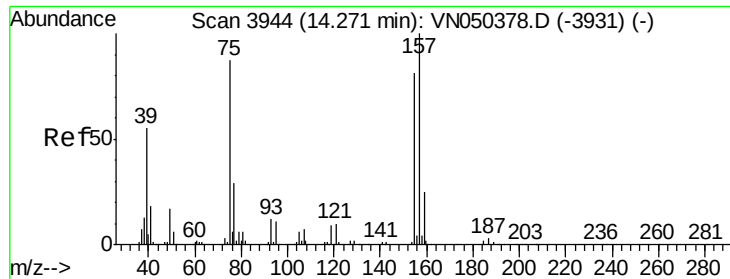
Tot Ion:105 Resp: 15350
 Ion Ratio Lower Upper
 105 100
 120 29.7 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 102.08 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050447.D
 Acq: 7 Aug 2018 21:38

Tgt Ion: 75 Resp: 283972
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.5 110.3#
 89 0.1 36.0 54.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.45 ug/l

RT: 14.26 min Scan# 3941

Delta R.T. -0.01 min

Lab File: VN050447.D

Acq: 7 Aug 2018 21:38

Instrument :

MSVOA_N

ClientSampled :

PB111813TB

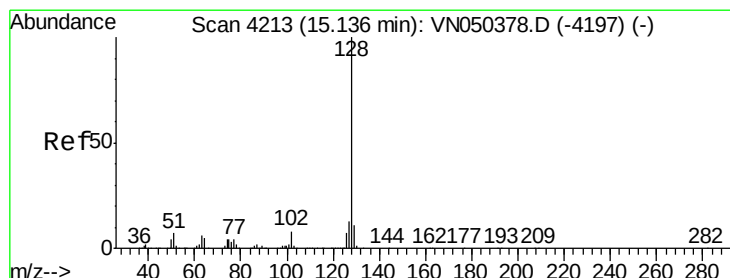
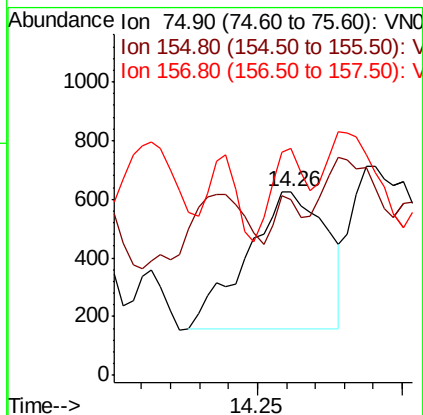
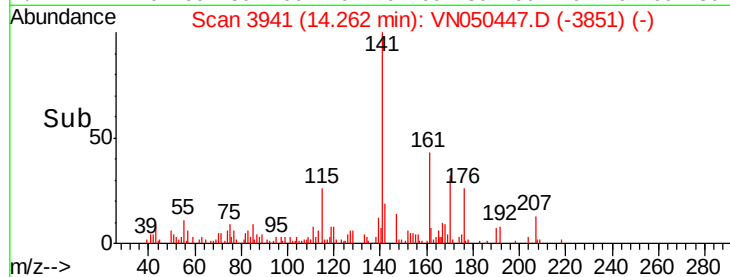
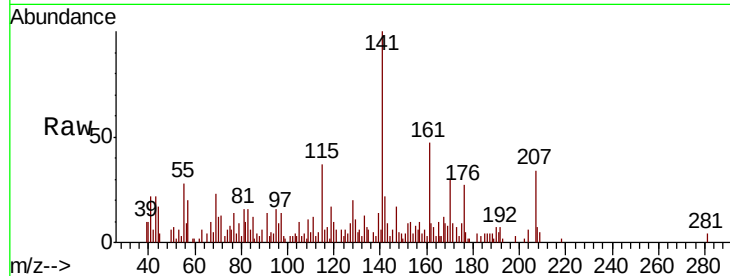
Tot Ion: 75 Resp: 893

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

157 28.4 57.2 171.6#



#95

Naphthalene

Concen: 4.25 ug/l

RT: 15.17 min Scan# 4224

Delta R.T. 0.04 min

Lab File: VN050447.D

Acq: 7 Aug 2018 21:38

Tgt Ion: 128 Resp: 17640

Ion Ratio Lower Upper

128 100

127 41.8 10.4 15.6#

129 39.7 8.8 13.2#

