

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080718\
 Data File : VN050444.D
 Acq On : 7 Aug 2018 20:23
 Operator : MD\SY
 Sample : J4369-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-36

Quant Time: Aug 08 05:29:26 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	875232	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1328605	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1152890	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	501602	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	541948	46.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.68%	
35) Dibromofluoromethane	7.59	113	494848	46.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.84%	
50) Toluene-d8	10.09	98	1841244	45.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.88%	
62) 4-Bromofluorobenzene	12.40	95	573357	41.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.94%	

Target Compounds

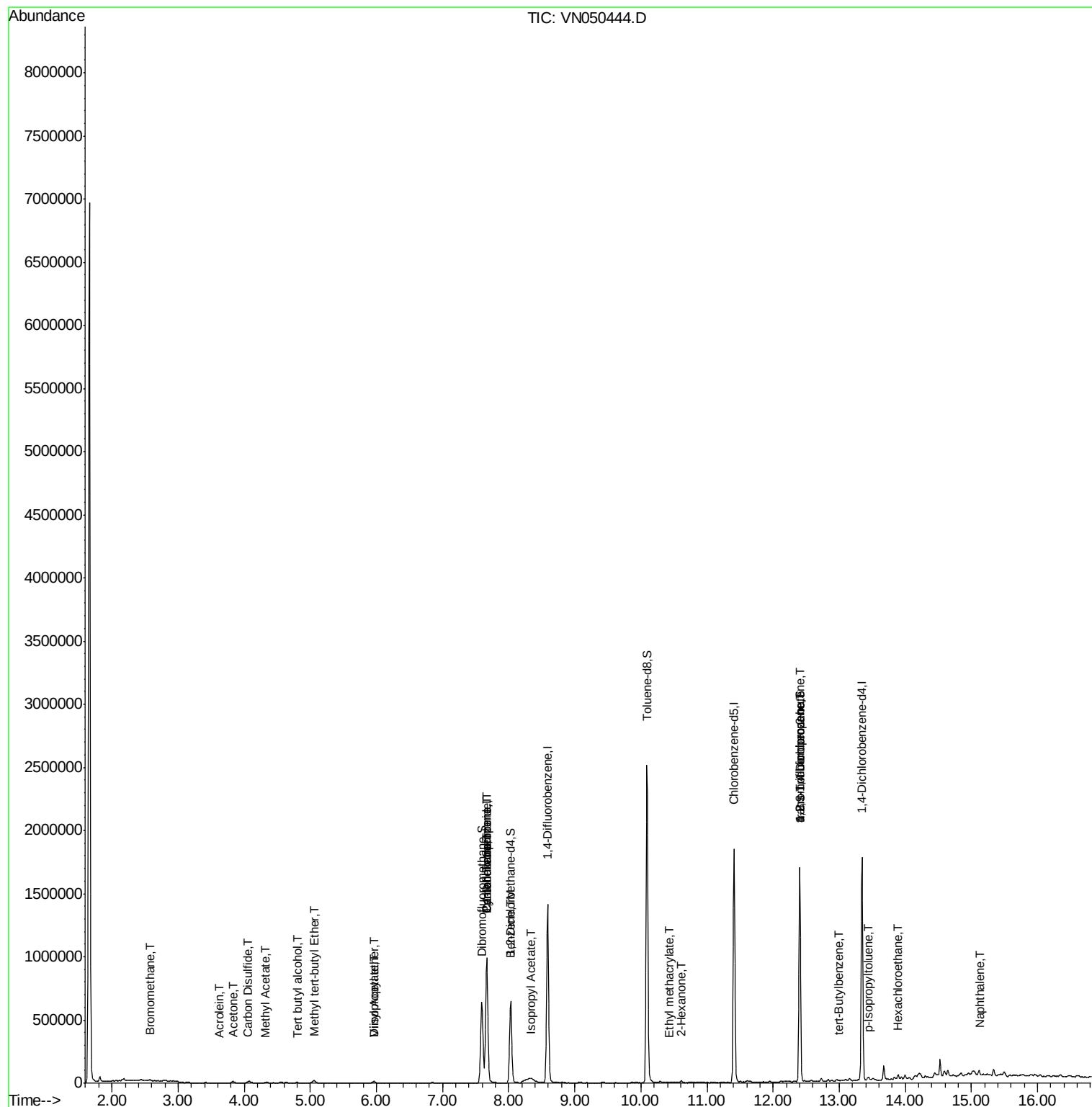
						Qvalue
3) Chloromethane	2.06	50	5010	Below Cal		95
5) Bromomethane	2.57	94	4812	0.96 ug/l		93
11) Tert butyl alcohol	4.79	59	1970	2.10 ug/l #		72
13) Acrolein	3.62	56	221	15.20 ug/l		99
16) Acetone	3.83	43	20795	5.61 ug/l		94
17) Carbon Disulfide	4.05	76	8154	0.27 ug/l		98
18) Methyl Acetate	4.33	43	5016	0.36 ug/l #		72
19) Methyl tert-butyl Ether	5.05	73	29439	1.10 ug/l		91
20) Methylene Chloride	4.55	84	1046	Below Cal		94
22) Diisopropyl ether	5.96	45	13713	0.44 ug/l		93
23) Vinyl Acetate	5.95	43	7844	0.35 ug/l #		71
31) Cyclohexane	7.67	56	15200	0.28 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	57557	3.94 ug/l #		49
38) Carbon Tetrachloride	7.67	117	76425	5.02 ug/l #		17
40) Benzene	8.04	78	12122	0.27 ug/l		96
43) Isopropyl Acetate	8.33	43	70525	3.89 ug/l #		62
56) Ethyl methacrylate	10.42	69	219	1.72 ug/l #		1
59) 2-Hexanone	10.61	43	10919	1.20 ug/l		74
76) 1,2,3-Trichloropropane	12.40	75	272204	29.98 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	272204	105.34 ug/l #		13
83) tert-Butylbenzene	12.99	119	5425	0.20 ug/l		81
86) p-Isopropyltoluene	13.44	119	7399	0.24 ug/l		86
90) Hexachloroethane	13.89	117	2701	0.50 ug/l #		4
95) Naphthalene	15.13	128	1262	3.67 ug/l		99

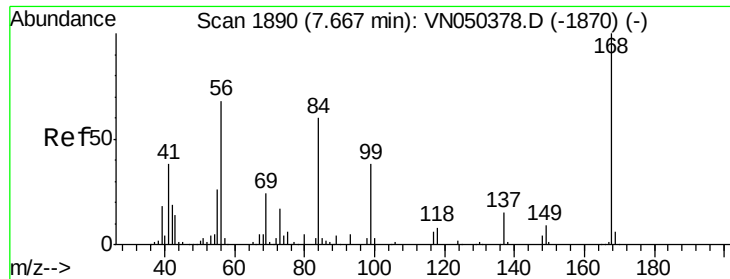
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050444.D

Acq: 7 Aug 2018 20:23

Instrument :

MSVOA_N

ClientSampled :

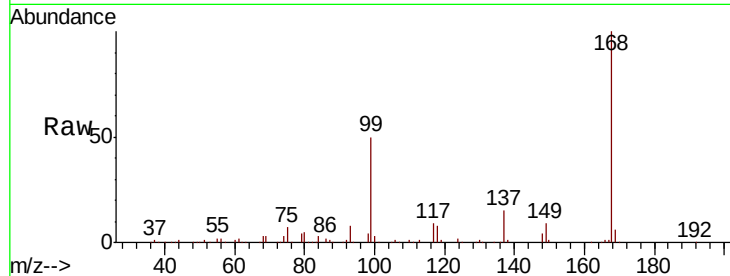
MW-36

Tot Ion:168 Resp: 875232

Ion Ratio Lower Upper

168 100

99 49.7 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

300000

200000

100000

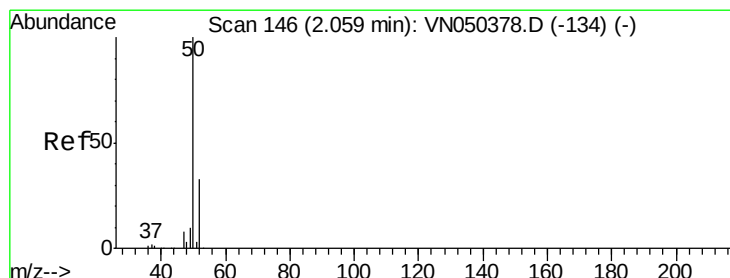
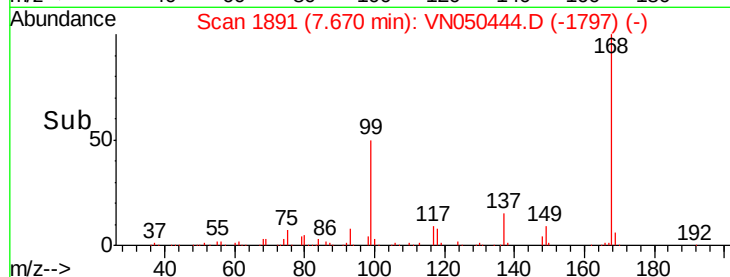
0

Time-->

7.60

7.70

7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050444.D

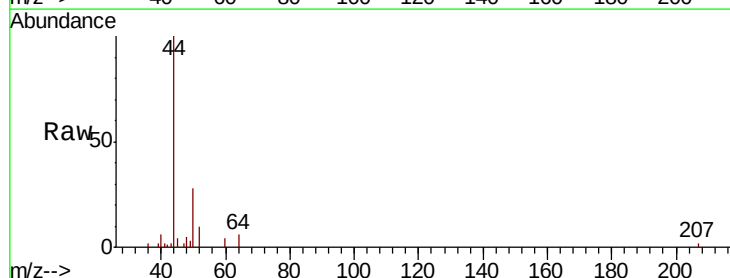
Acq: 7 Aug 2018 20:23

Tgt Ion: 50 Resp: 5010

Ion Ratio Lower Upper

50 100

52 35.4 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

4000

3000

2000

1000

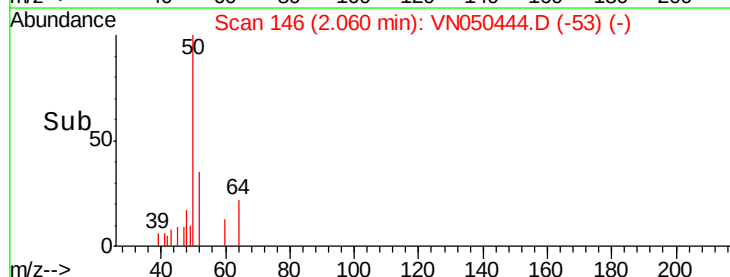
0

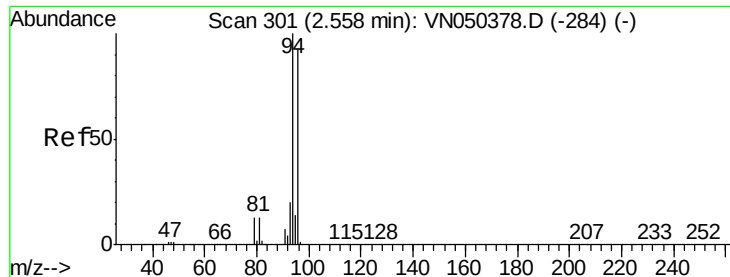
Time-->

2.00

2.05

2.10





#5

Bromomethane

Concen: 0.96 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

Instrument :

MSVOA_N

ClientSampled :

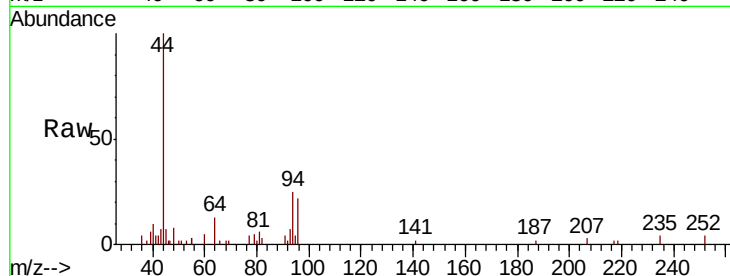
MW-36

Tot Ion: 94 Resp: 4812

Ion Ratio Lower Upper

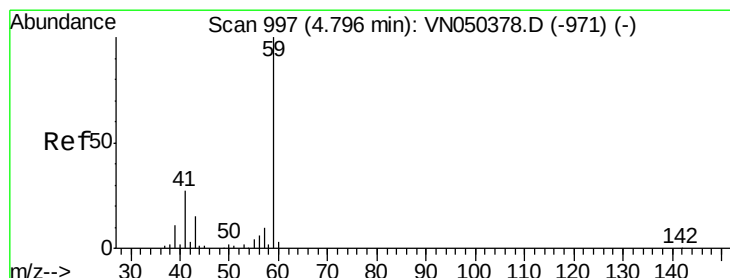
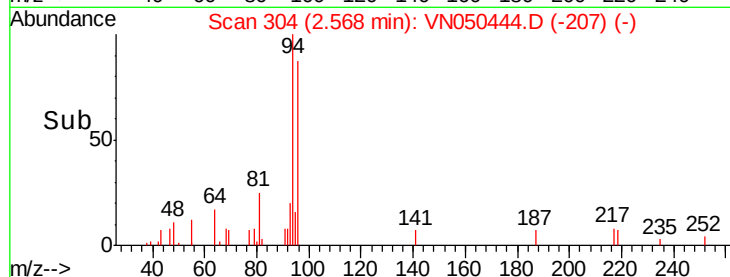
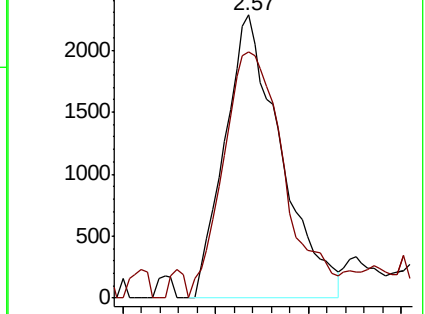
94 100

96 86.9 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 2.10 ug/l

RT: 4.79 min Scan# 996

Delta R.T. -0.00 min

Lab File: VN050444.D

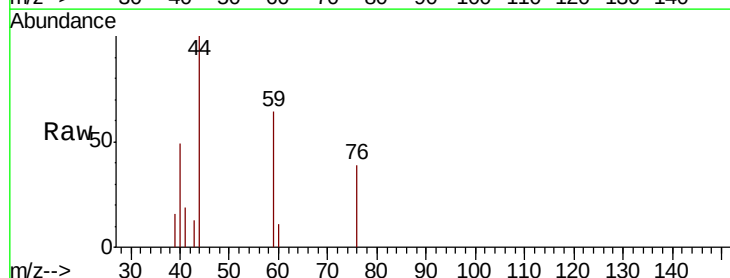
Acq: 7 Aug 2018 20:23

Tgt Ion: 59 Resp: 1970

Ion Ratio Lower Upper

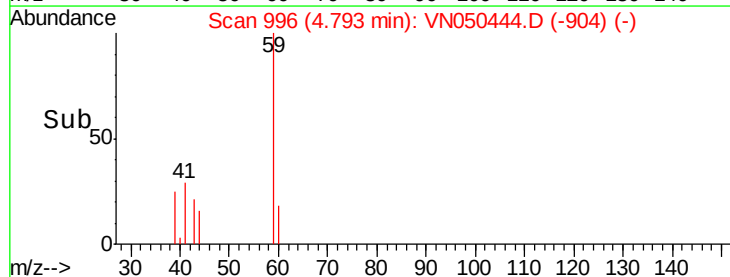
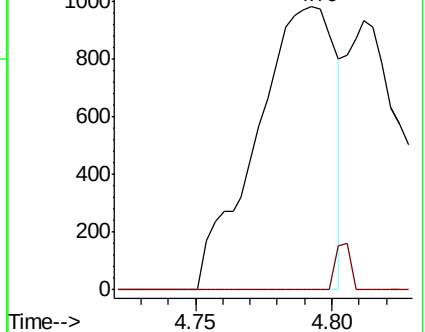
59 100

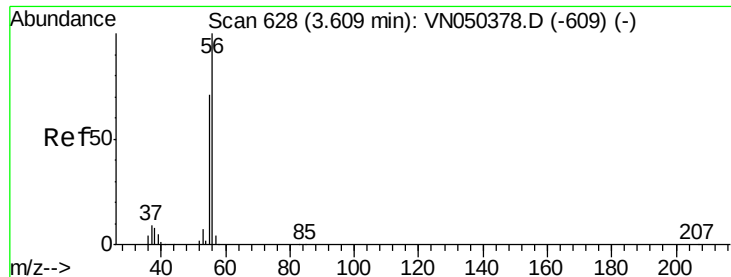
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 15.20 ug/l

RT: 3.62 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

Instrument :

MSVOA_N

ClientSampleId :

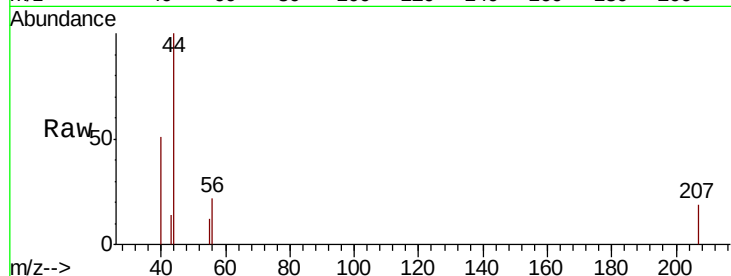
MW-36

Tot Ion: 56 Resp: 221

Ion Ratio Lower Upper

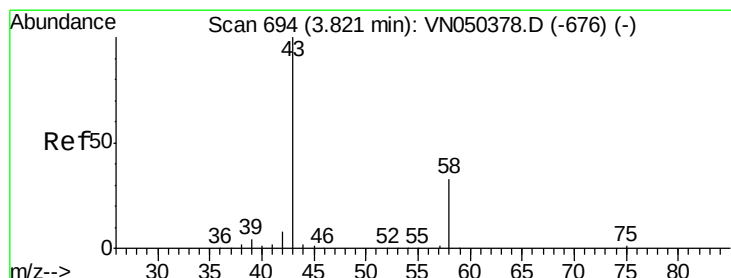
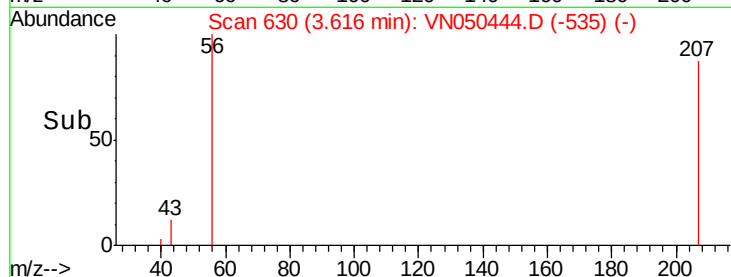
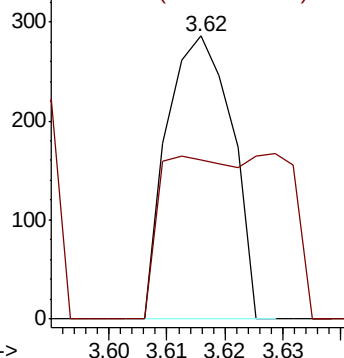
56 100

55 69.2 55.8 83.6



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 5.61 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050444.D

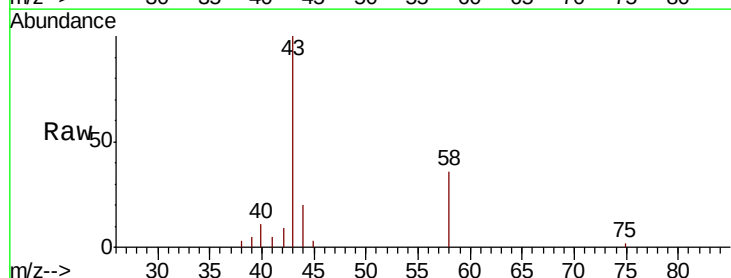
Acq: 7 Aug 2018 20:23

Tgt Ion: 43 Resp: 20795

Ion Ratio Lower Upper

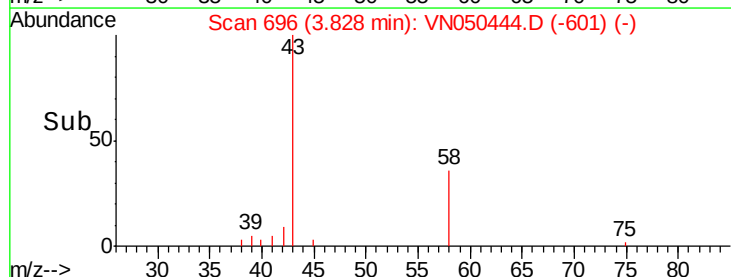
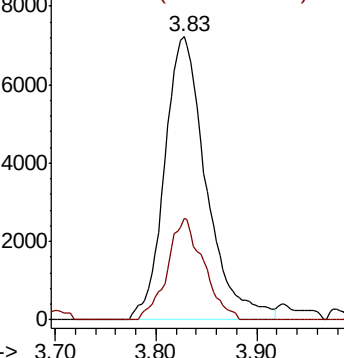
43 100

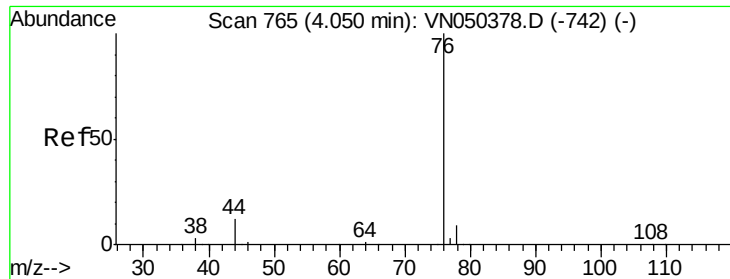
58 35.7 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.27 ug/l

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

Instrument :

MSVOA_N

ClientSampled :

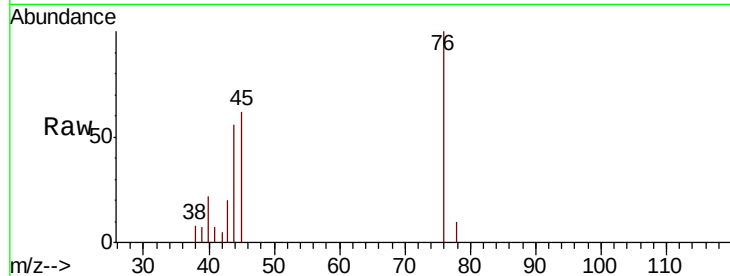
MW-36

Tot Ion: 76 Resp: 8154

Ion Ratio Lower Upper

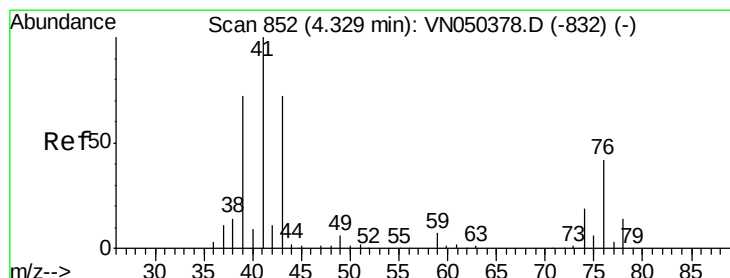
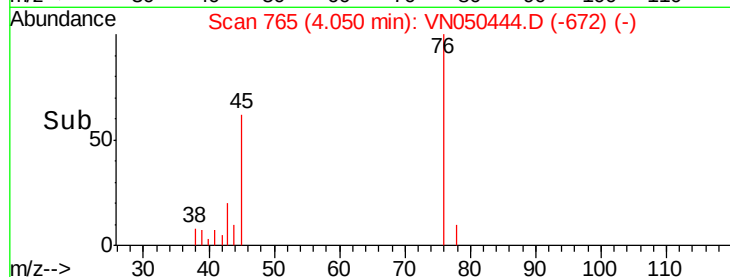
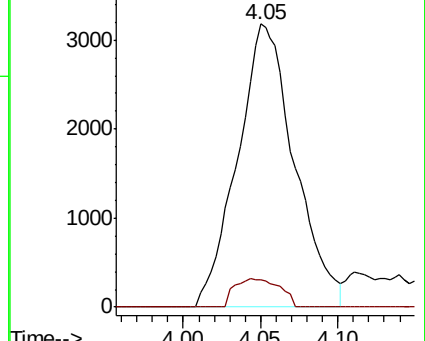
76 100

78 9.8 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 0.36 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050444.D

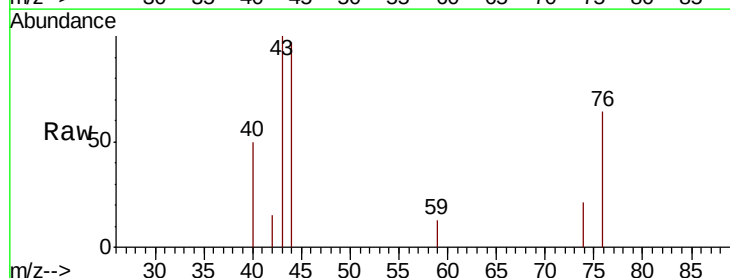
Acq: 7 Aug 2018 20:23

Tgt Ion: 43 Resp: 5016

Ion Ratio Lower Upper

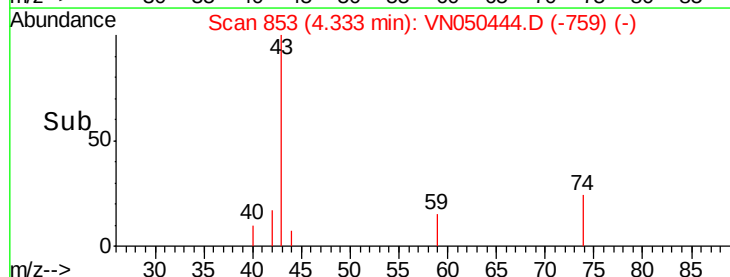
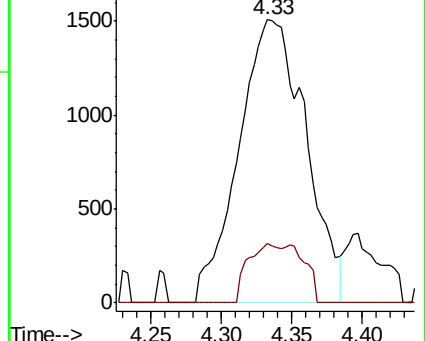
43 100

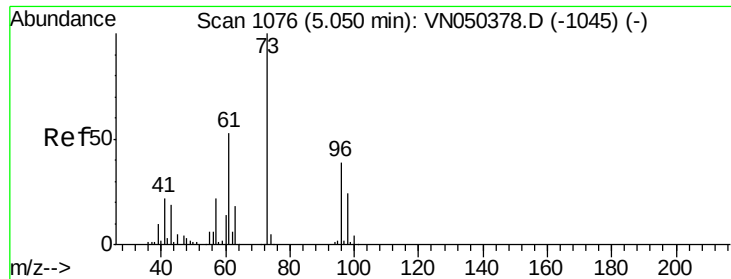
74 10.2 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

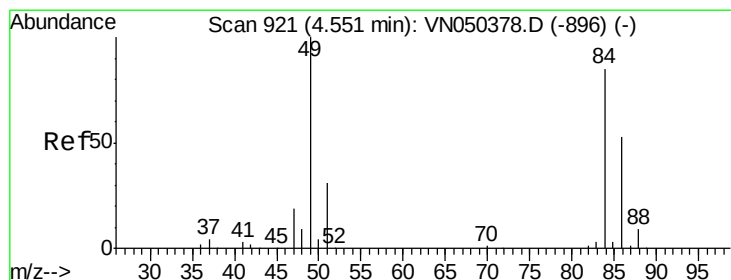
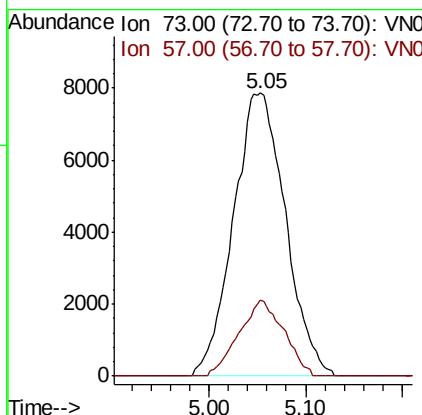
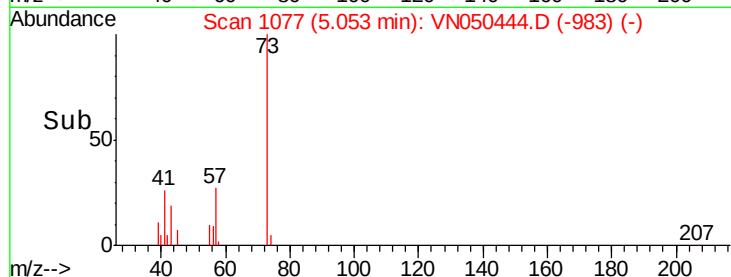
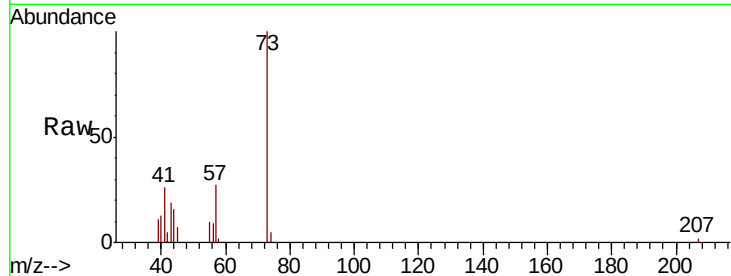




#19
Methvl tert-butvl Ether
Concen: 1.10 ua/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN050444.D
Acq: 7 Aug 2018 20:23

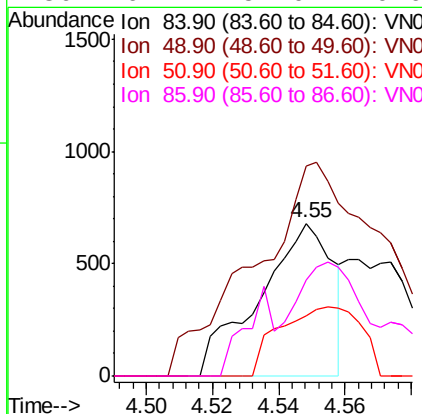
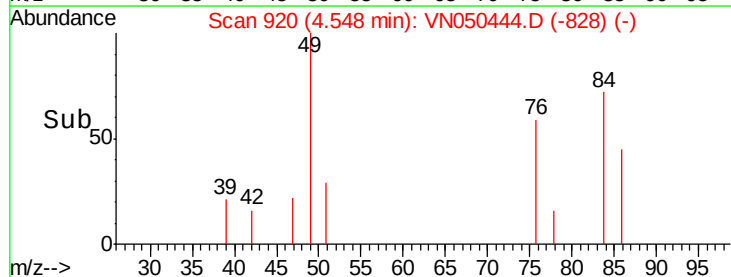
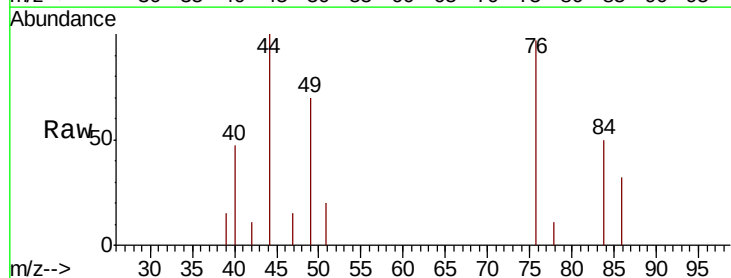
Instrument :
MSVOA_N
ClientSampled :
MW-36

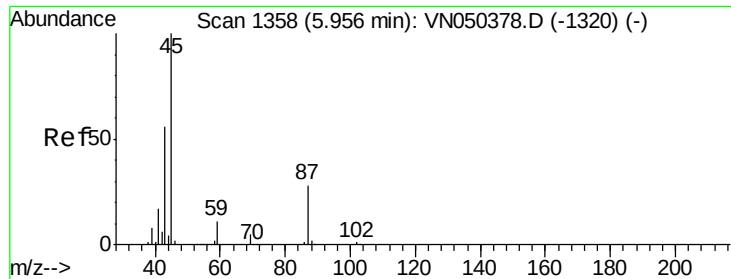
Tot Ion: 73 Resp: 29439
Ion Ratio Lower Upper
73 100
57 26.7 18.0 27.0



#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN050444.D
Acq: 7 Aug 2018 20:23

Tgt Ion: 84 Resp: 1046
Ion Ratio Lower Upper
84 100
49 108.8 94.8 142.2
51 39.8 28.3 42.5
86 62.7 51.0 76.6





#22

Diisopropyl ether

Concen: 0.44 ug/l

RT: 5.96 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

Instrument :

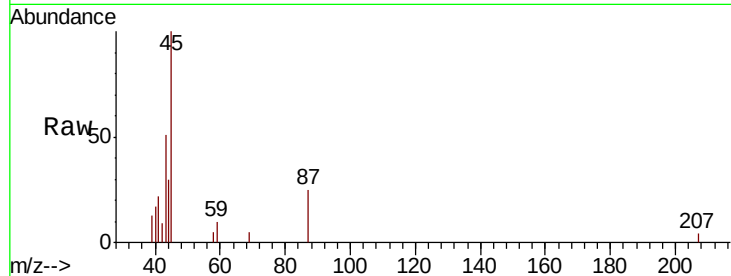
MSVOA_N

ClientSampled :

MW-36

Tot Ion: 45 Resp: 13713

Ion	Ratio	Lower	Upper
45	100		
43	50.8	45.7	68.5
87	25.5	22.7	34.1
59	10.4	9.5	14.3

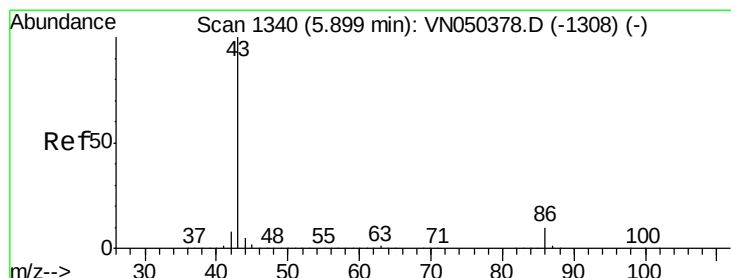
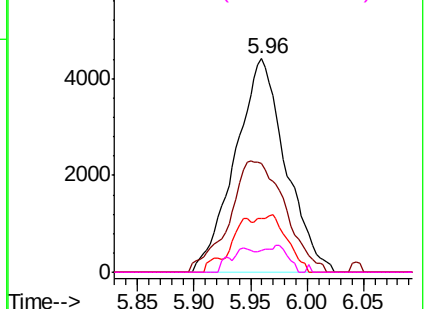
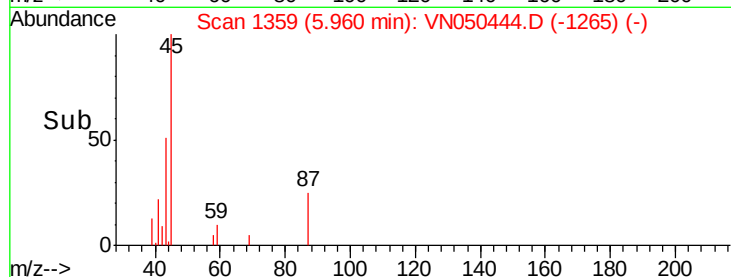


Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0



#23

Vinyl Acetate

Concen: 0.35 ug/l

RT: 5.95 min Scan# 1356

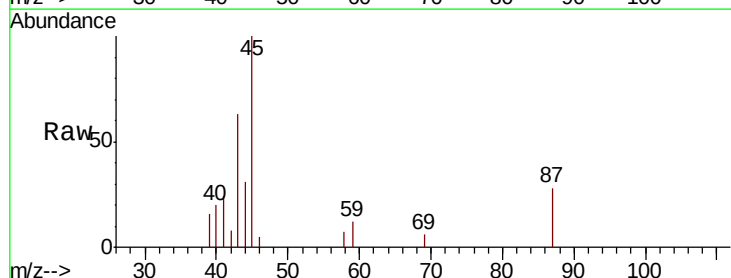
Delta R.T. 0.05 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

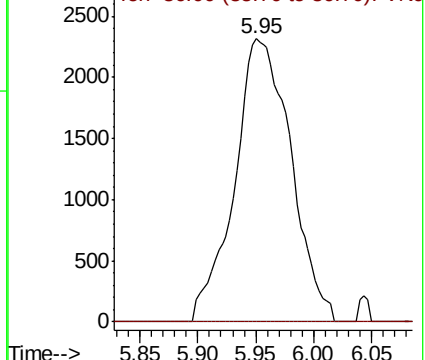
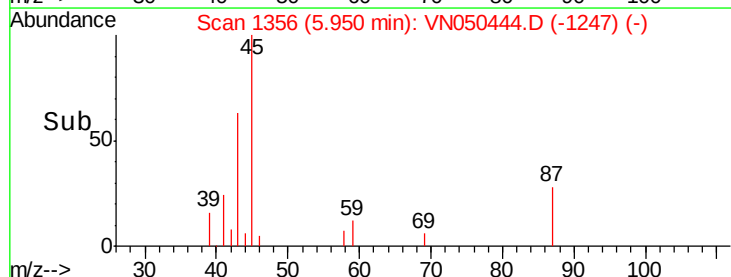
Tgt Ion: 43 Resp: 7844

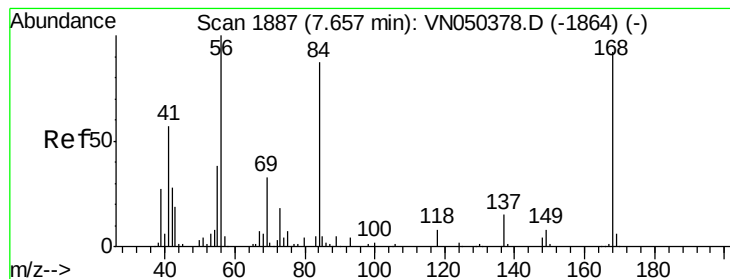
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.6	13.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0





#31

Cyclohexane

Concen: 0.28 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

Instrument :

MSVOA_N

ClientSampleId :

MW-36

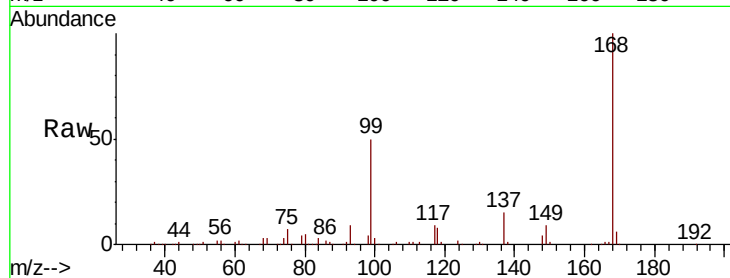
Tot Ion: 56 Resp: 15200

Ion Ratio Lower Upper

56 100

69 188.7 26.2 39.4#

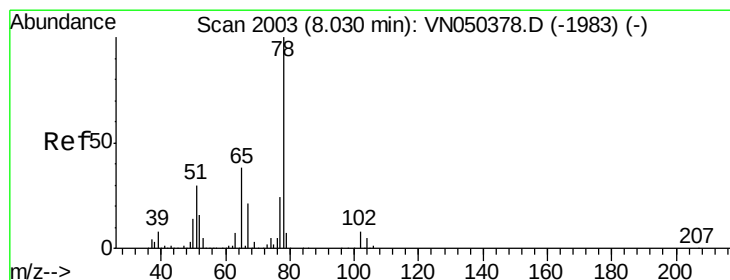
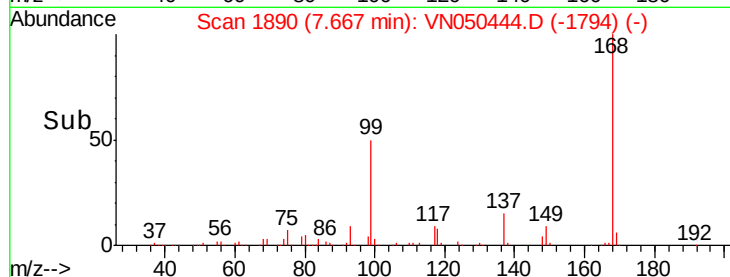
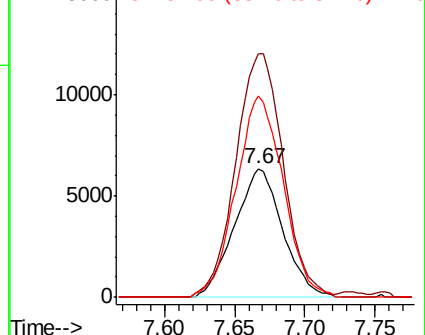
84 156.2 67.4 101.0#



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: 46.34 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050444.D

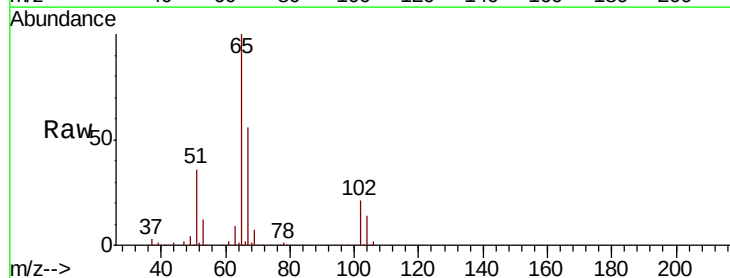
Acq: 7 Aug 2018 20:23

Tgt Ion: 65 Resp: 541948

Ion Ratio Lower Upper

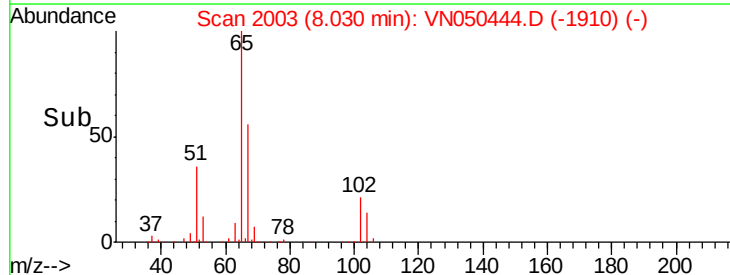
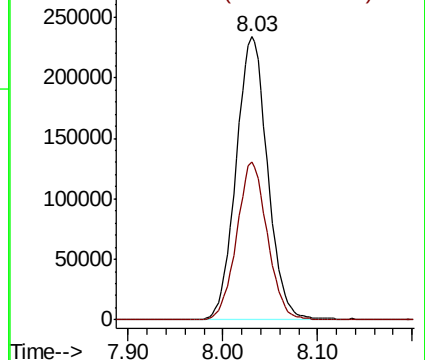
65 100

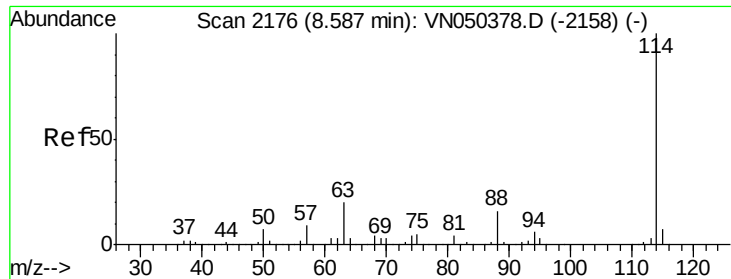
67 54.1 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

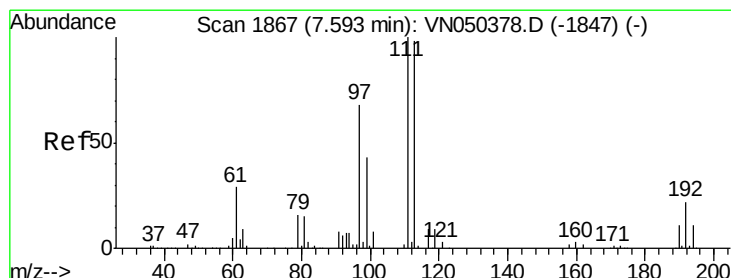
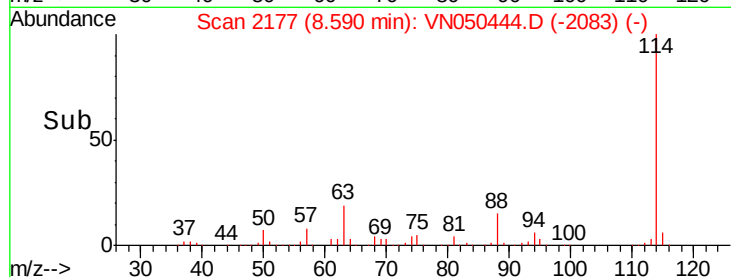
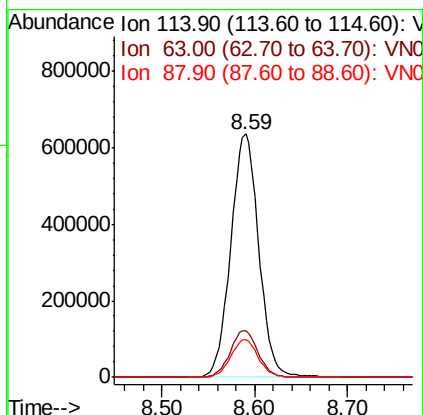
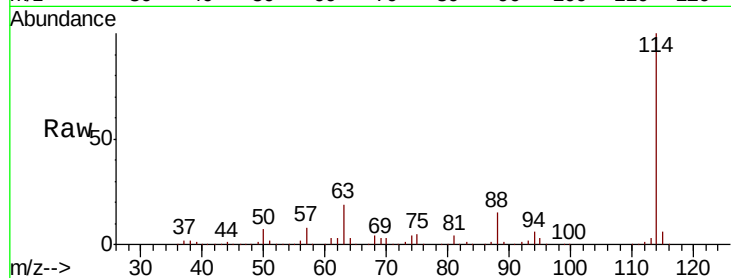




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050444.D
 Acq: 7 Aug 2018 20:23

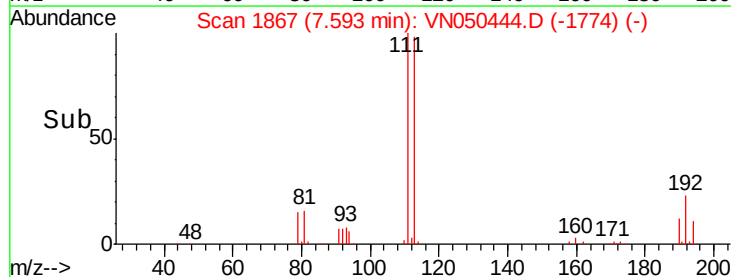
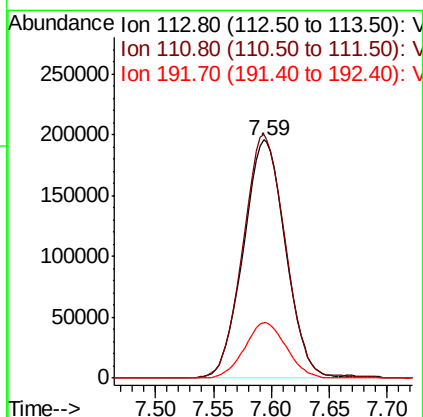
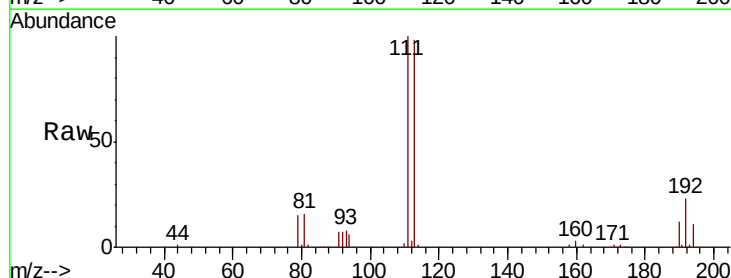
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-36

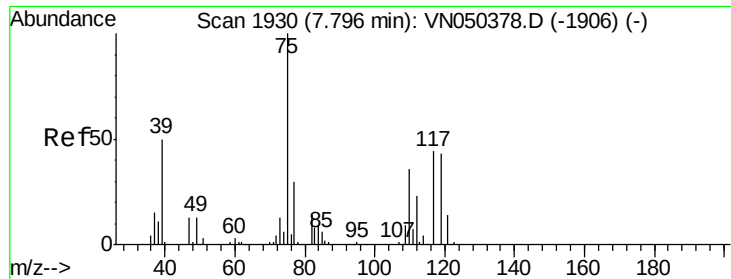
Tot Ion:114 Resp: 1328605
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.0
 88 15.5 0.0 31.2



#35
 Dibromofluoromethane
 Concen: 46.42 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050444.D
 Acq: 7 Aug 2018 20:23

Tgt Ion:113 Resp: 494848
 Ion Ratio Lower Upper
 113 100
 111 102.7 80.7 121.1
 192 23.3 17.8 26.6

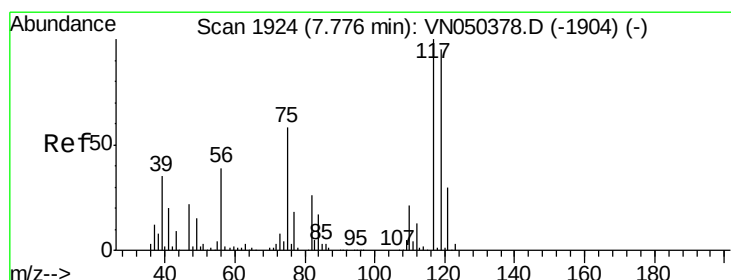
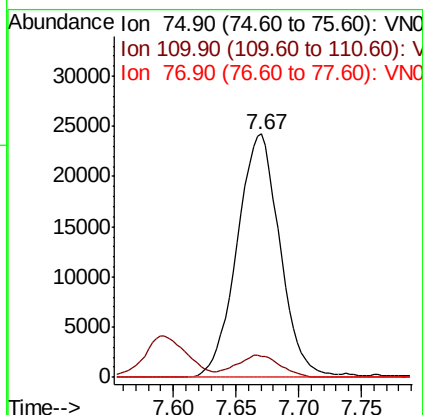
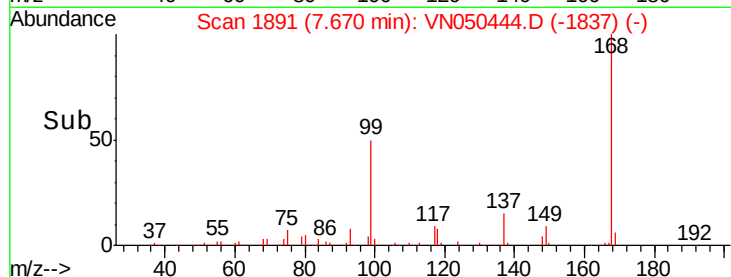
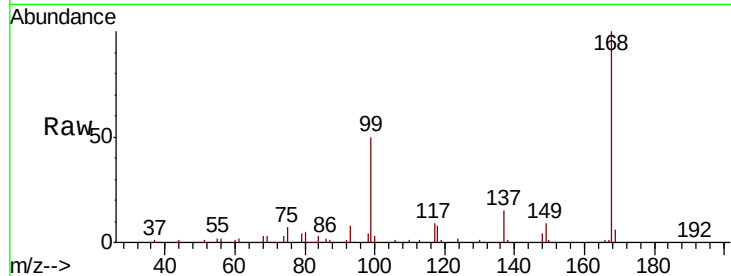




#36
 1,1-Dichloropropene
 Concen: 3.94 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050444.D
 Acq: 7 Aug 2018 20:23

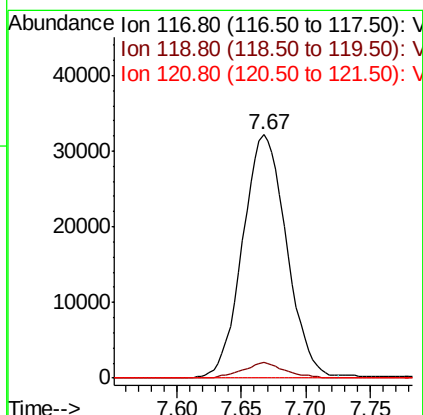
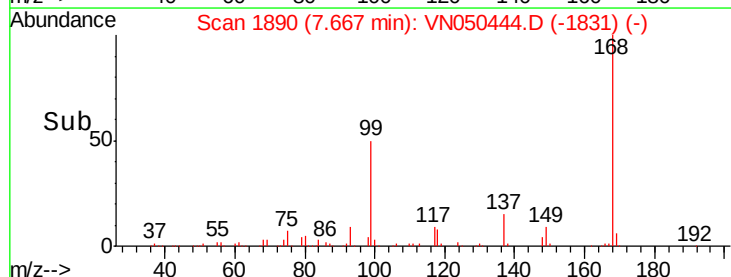
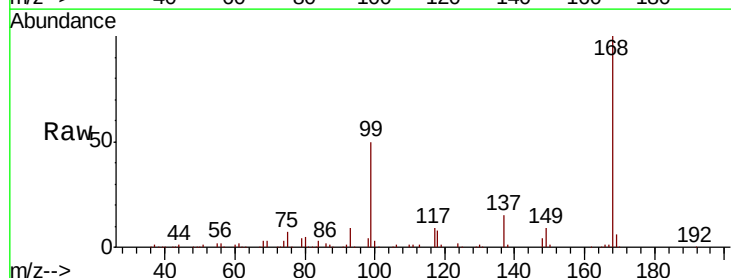
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-36

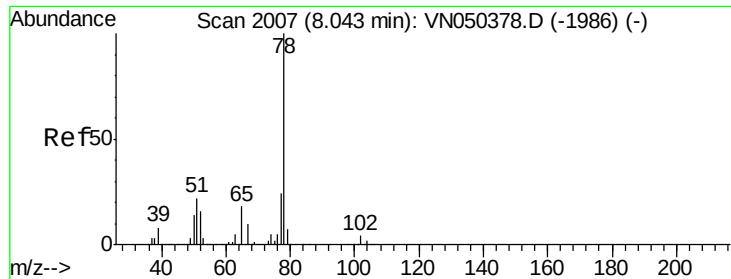
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 5.02 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050444.D
 Acq: 7 Aug 2018 20:23

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





#40

Benzene

Concen: 0.27 ug/l

RT: 8.04 min Scan# 2007

Delta R.T. 0.00 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

Instrument :

MSVOA_N

ClientSampled :

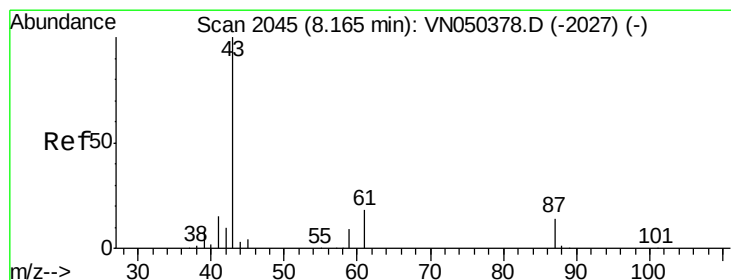
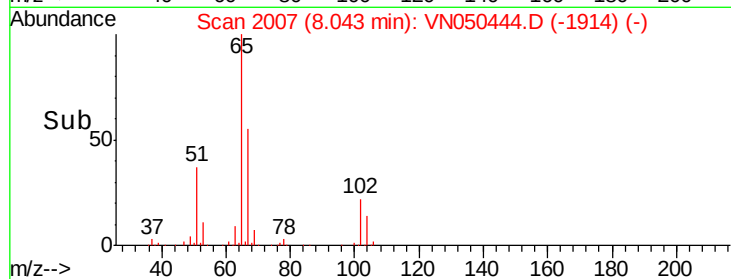
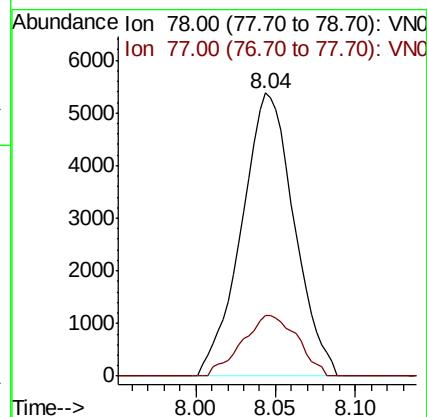
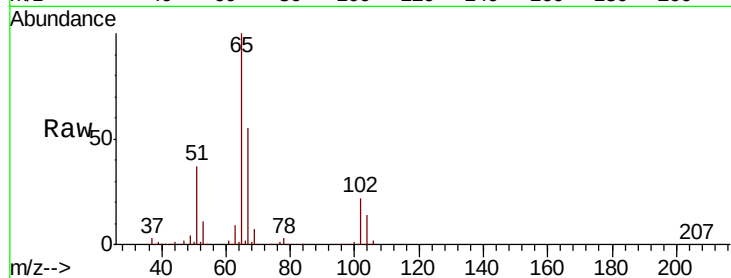
MW-36

Tot Ion: 78 Resp: 12122

Ion Ratio Lower Upper

78 100

77 21.6 18.7 28.1



#43

Isopropyl Acetate

Concen: 3.89 ug/l

RT: 8.33 min Scan# 2096

Delta R.T. 0.16 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

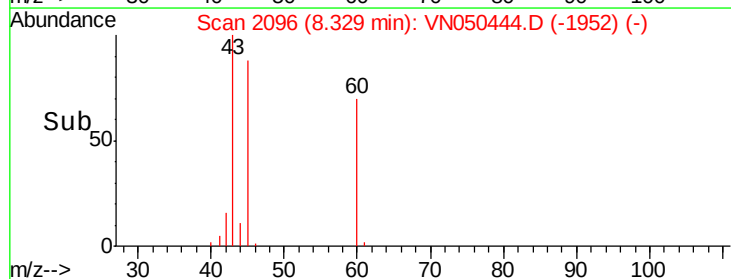
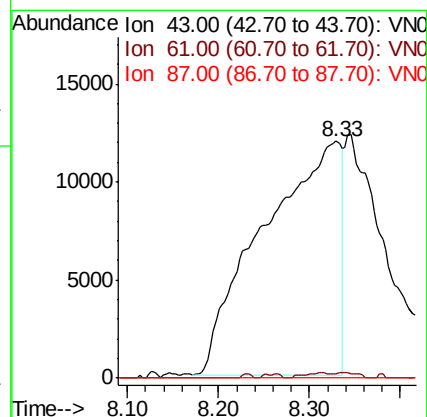
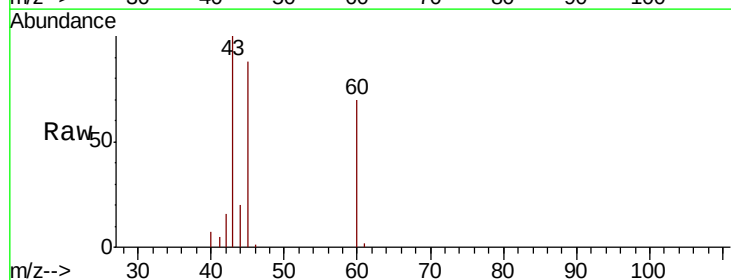
Tgt Ion: 43 Resp: 70525

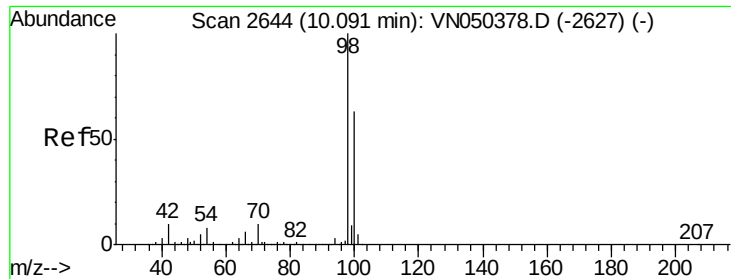
Ion Ratio Lower Upper

43 100

61 0.9 15.8 23.6#

87 0.0 10.3 15.5#

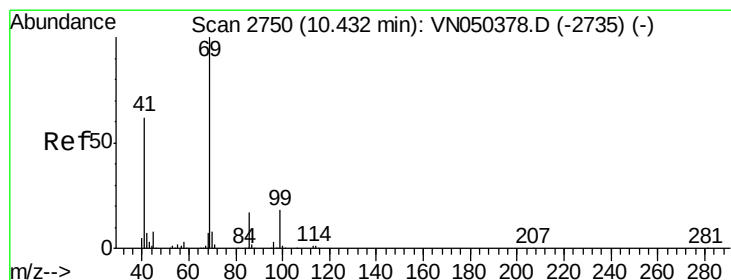
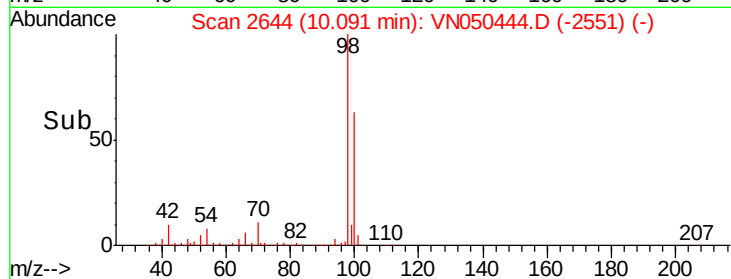
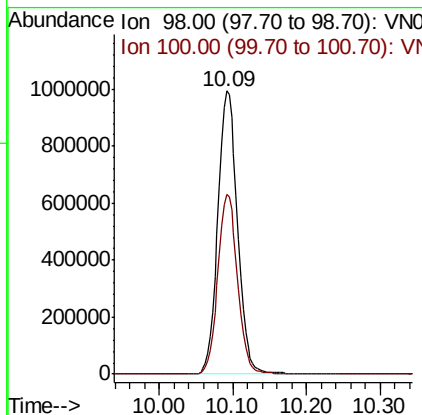
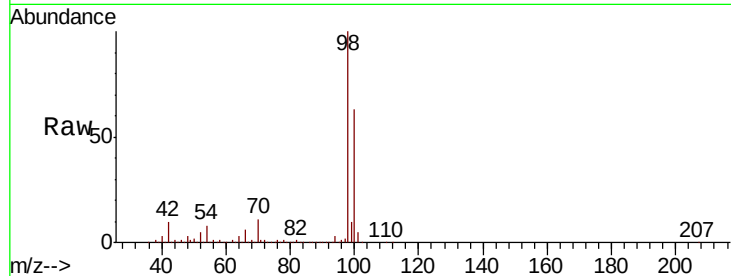




#50
Toluene-d8
Concen: 45.94 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050444.D
Acq: 7 Aug 2018 20:23

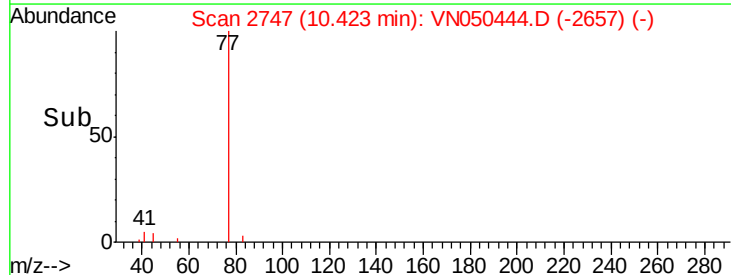
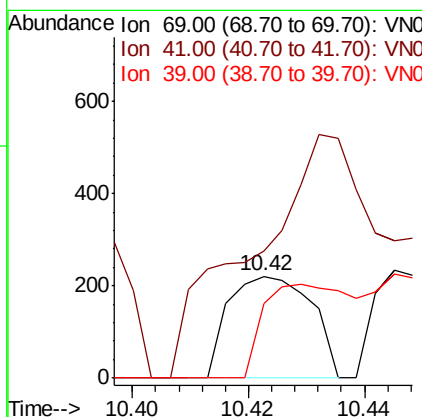
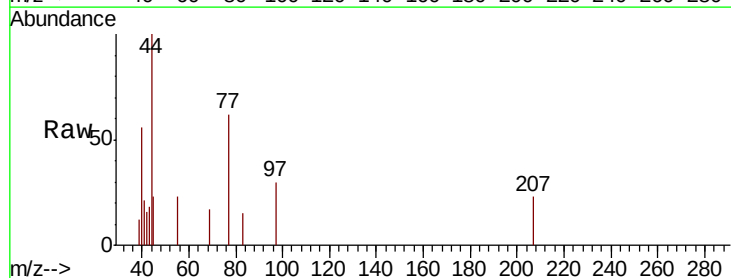
Instrument :
MSVOA_N
ClientSampled :
MW-36

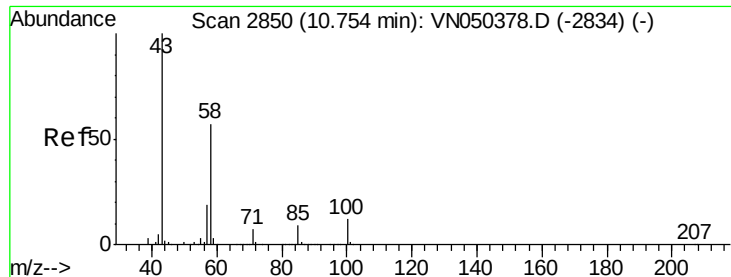
Tot Ion: 98 Resp: 1841244
Ion Ratio Lower Upper
98 100
100 63.5 50.7 76.1



#56
Ethyl methacrylate
Concen: 1.72 ug/l
RT: 10.42 min Scan# 2747
Delta R.T. -0.01 min
Lab File: VN050444.D
Acq: 7 Aug 2018 20:23

Tgt Ion: 69 Resp: 219
Ion Ratio Lower Upper
69 100
41 421.9 51.0 76.4#
39 98.6 26.6 40.0#





#59

2-Hexanone

Concen: 1.20 ug/l

RT: 10.61 min Scan# 2805

Delta R.T. -0.14 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

Instrument :

MSVOA_N

ClientSampleId :

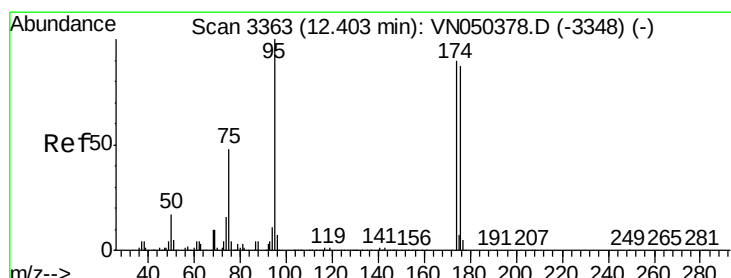
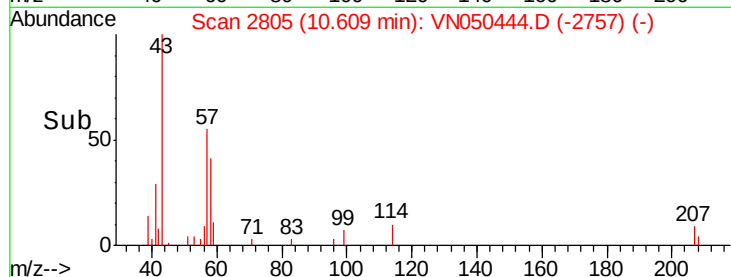
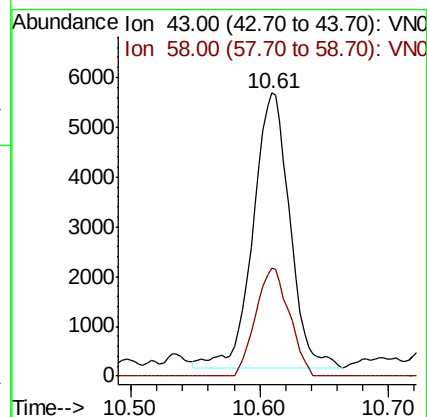
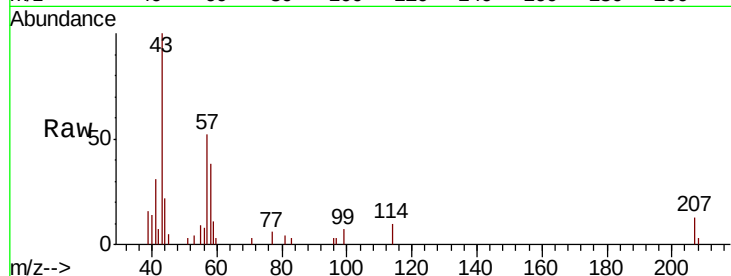
MW-36

Tot Ion: 43 Resp: 10919

Ion Ratio Lower Upper

43 100

58 36.1 27.6 82.7



#62

4-Bromofluorobenzene

Concen: 41.97 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

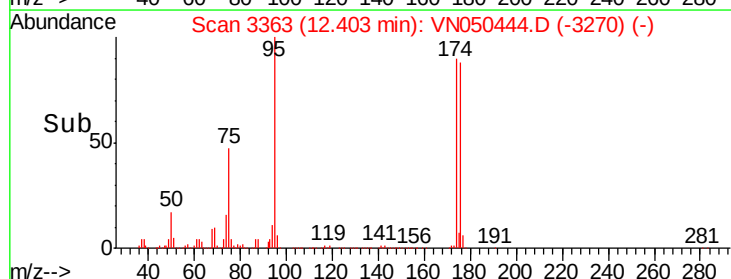
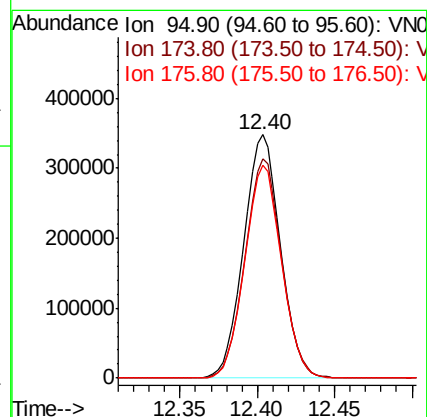
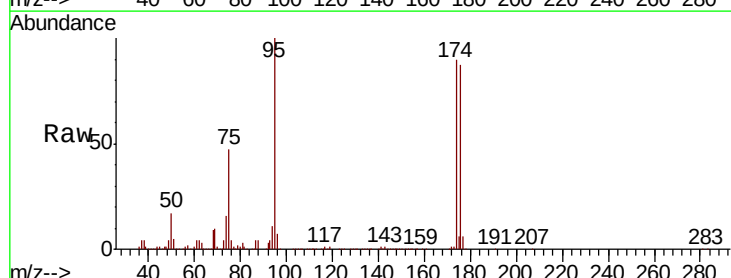
Tgt Ion: 95 Resp: 573357

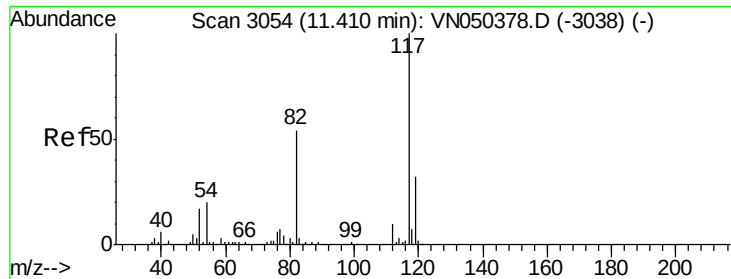
Ion Ratio Lower Upper

95 100

174 90.4 0.0 178.2

176 87.8 0.0 173.4

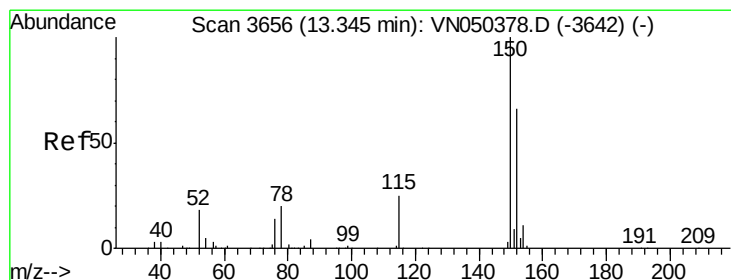
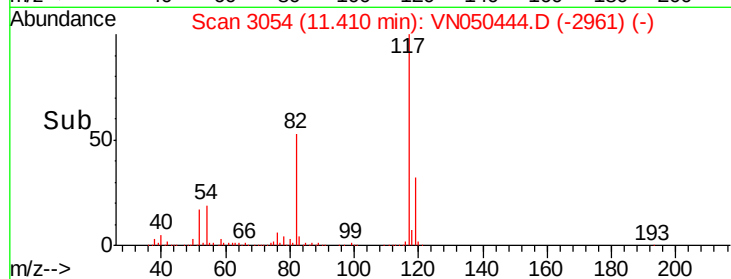
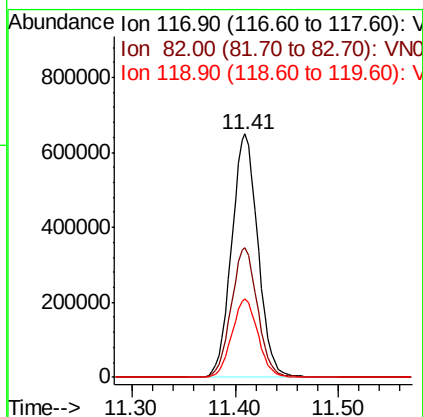
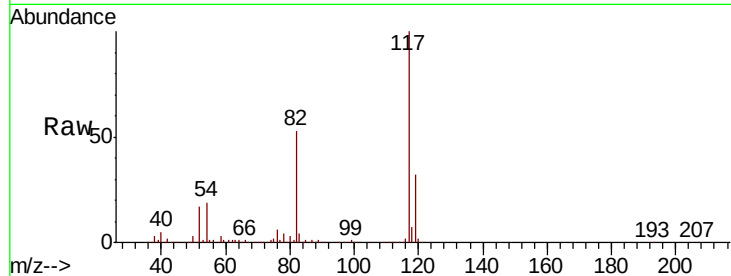




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050444.D
Acq: 7 Aug 2018 20:23

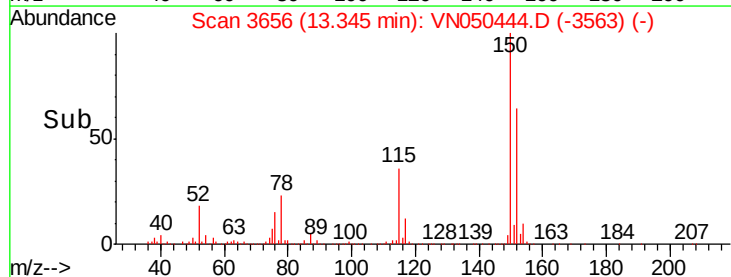
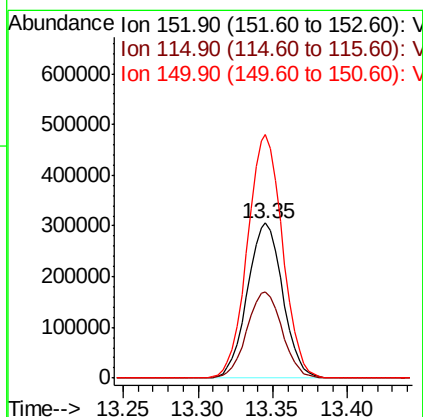
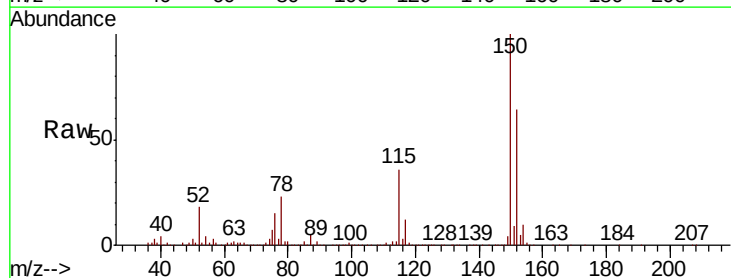
Instrument :
MSVOA_N
ClientSampled :
MW-36

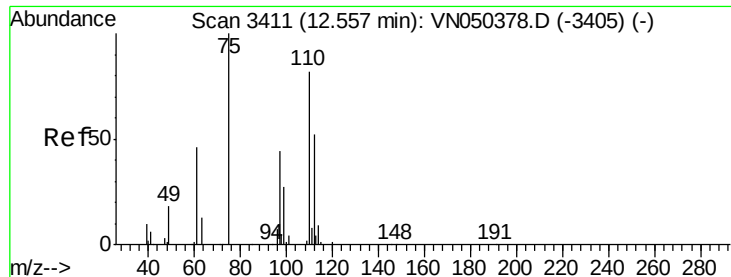
Tot Ion:117 Resp: 1152890
Ion Ratio Lower Upper
117 100
82 53.3 43.7 65.5
119 32.3 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050444.D
Acq: 7 Aug 2018 20:23

Tgt Ion:152 Resp: 501602
Ion Ratio Lower Upper
152 100
115 55.5 27.8 83.3
150 155.7 0.0 348.6





#76

1,2,3-Trichloropropane

Concen: 29.98 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

Instrument :

MSVOA_N

ClientSampleId :

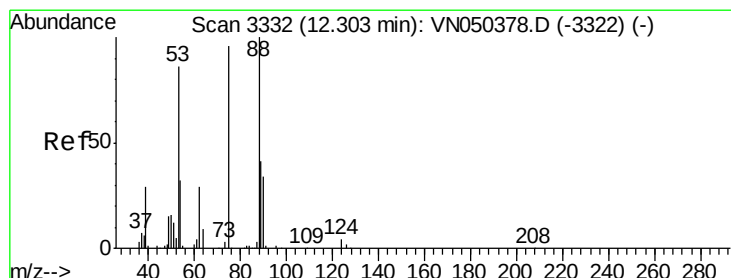
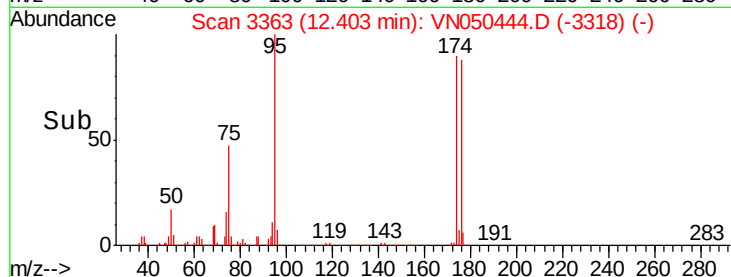
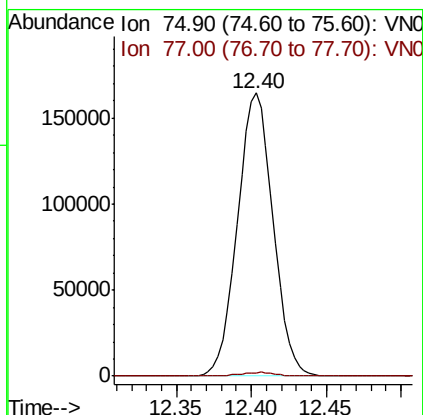
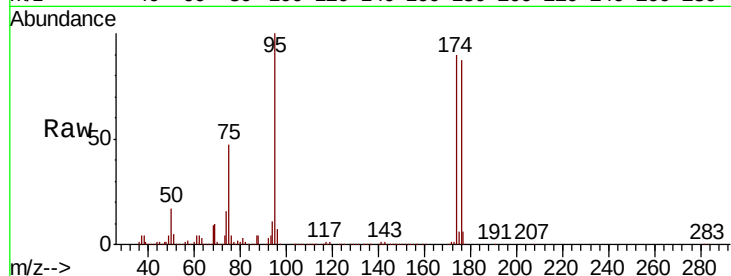
MW-36

Tot Ion: 75 Resp: 272204

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 105.34 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

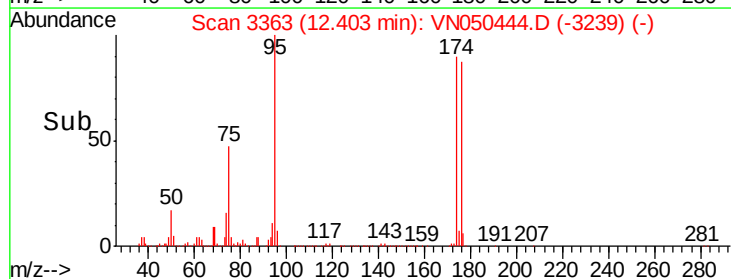
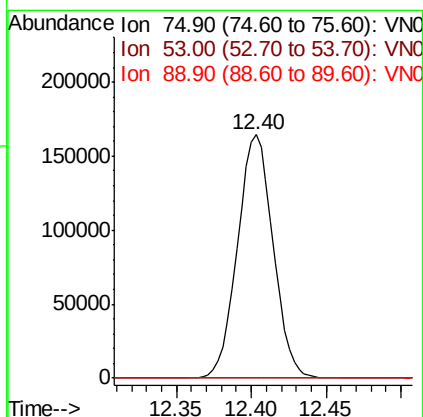
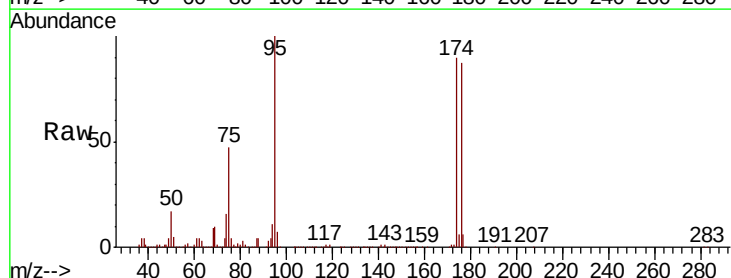
Tgt Ion: 75 Resp: 272204

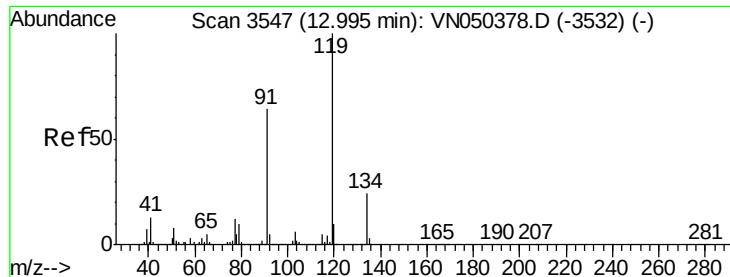
Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

89 0.0 36.0 54.0#





#83

tert-Butylbenzene

Concen: 0.20 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

Instrument :

MSVOA_N

ClientSampled :

MW-36

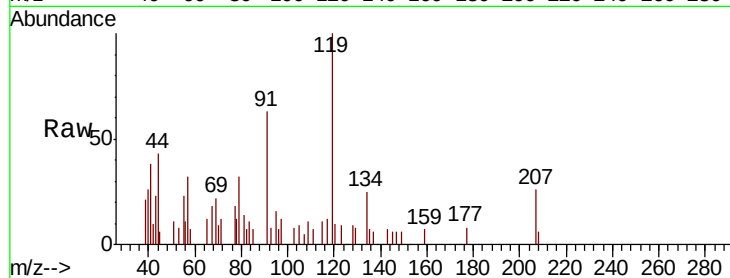
Tot Ion:119 Resp: 5425

Ion Ratio Lower Upper

119 100

91 47.1 32.1 96.3

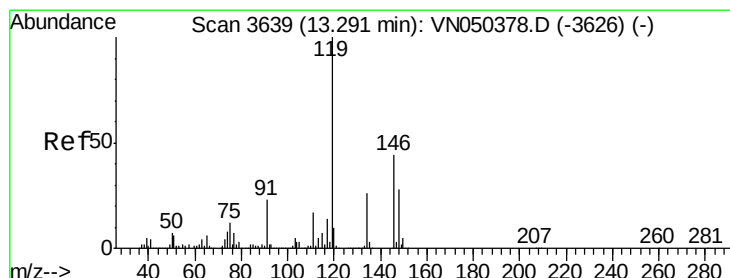
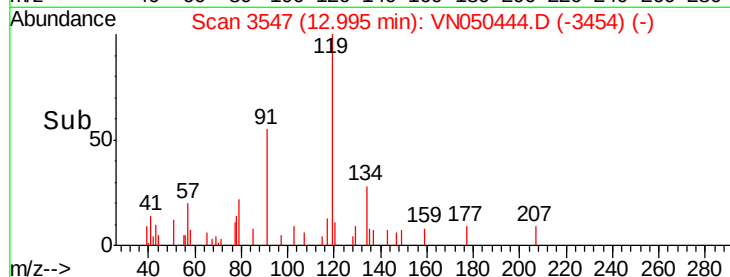
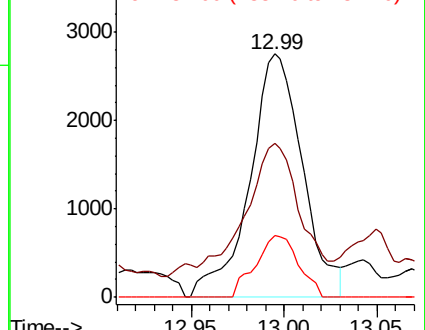
134 20.8 13.2 39.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.24 ug/l

RT: 13.44 min Scan# 3687

Delta R.T. 0.15 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

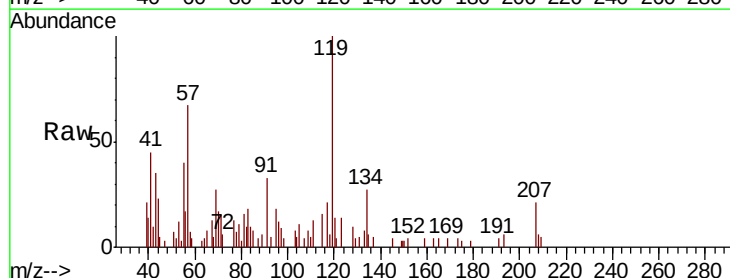
Tgt Ion:119 Resp: 7399

Ion Ratio Lower Upper

119 100

134 33.8 13.3 39.8

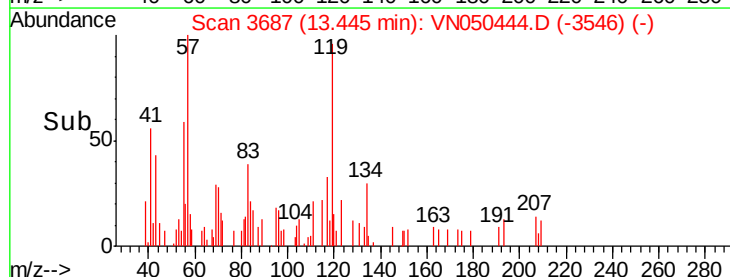
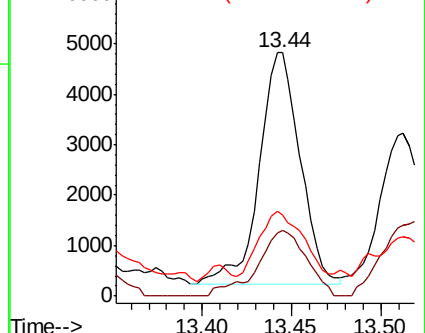
91 29.2 11.4 34.2

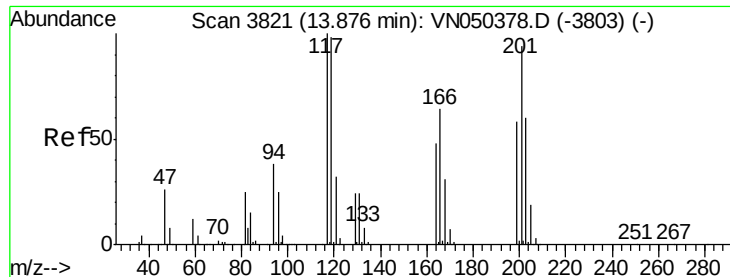


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VN





#90

Hexachloroethane

Concen: 0.50 ug/l

RT: 13.89 min Scan# 3825

Delta R.T. 0.01 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

Instrument :

MSVOA_N

ClientSampled :

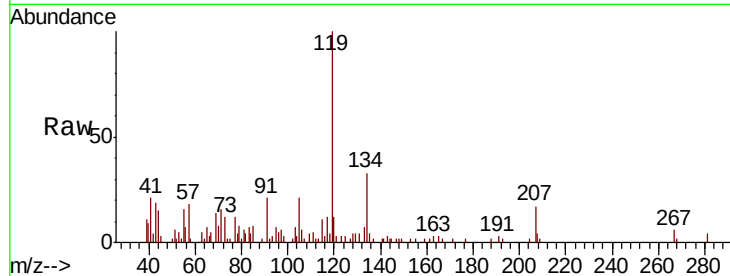
MW-36

Tot Ion:117 Resp: 2701

Ion Ratio Lower Upper

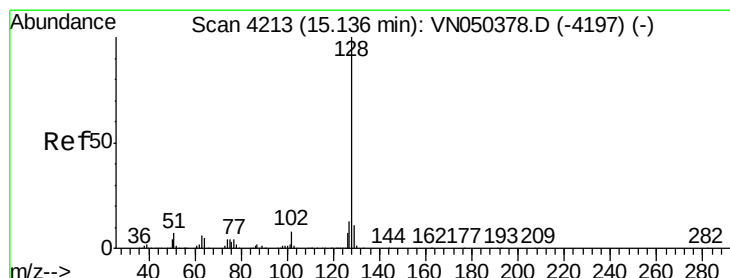
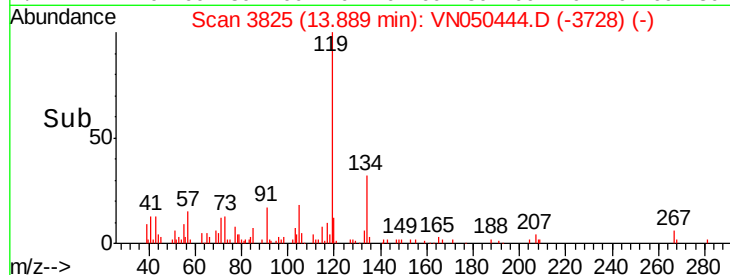
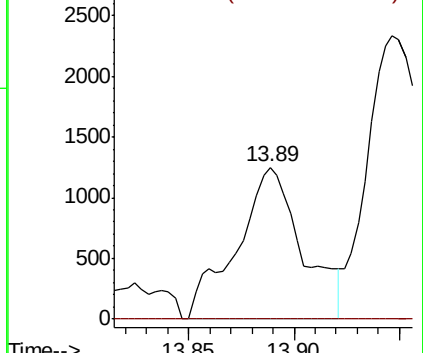
117 100

201 0.0 45.6 136.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 3.67 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050444.D

Acq: 7 Aug 2018 20:23

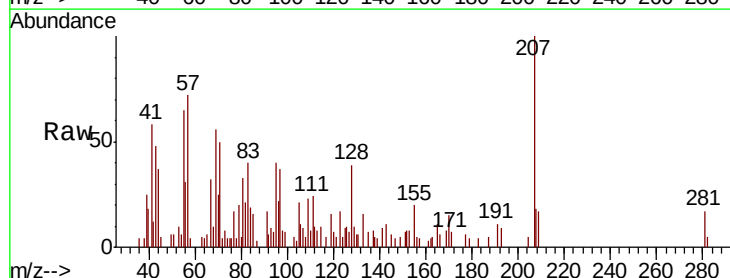
Tgt Ion:128 Resp: 1262

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

129 9.9 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

