

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080418\
 Data File : VN050367.D
 Acq On : 4 Aug 2018 15:21
 Operator : MD\SY
 Sample : J4328-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-15

Quant Time: Aug 06 01:38:13 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	660592	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1047297	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	932160	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	418705	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	451984	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
35) Dibromofluoromethane	7.59	113	402267	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
50) Toluene-d8	10.09	98	1472098	46.83	ug/l	0.00
Spiked Amount			Recovery	=	93.66%	
62) 4-Bromofluorobenzene	12.40	95	463324	44.76	ug/l	0.00
Spiked Amount			Recovery	=	89.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3975	0.39	ug/l	100
5) Bromomethane	2.57	94	3582	Below Cal		84
11) Tert butyl alcohol	4.79	59	5791	8.54	ug/l #	72
13) Acrolein	3.61	56	287	0.53	ug/l #	72
16) Acetone	3.82	43	24863	7.24	ug/l	95
17) Carbon Disulfide	4.05	76	10559	0.45	ug/l #	94
18) Methyl Acetate	4.34	43	5916	Below Cal	#	77
19) Methyl tert-butyl Ether	5.06	73	71201	3.51	ug/l #	91
20) Methylene Chloride	4.55	84	2499	Below Cal		98
25) 2-Butanone	6.83	43	1774	0.50	ug/l #	48
31) Cyclohexane	7.66	56	27209	2.08	ug/l #	38
36) 1,1-Dichloropropene	7.67	75	46234	3.92	ug/l #	47
38) Carbon Tetrachloride	7.67	117	60395	4.82	ug/l #	16
39) Methylcyclohexane	9.08	83	7476	0.62	ug/l	92
40) Benzene	8.05	78	54120	1.51	ug/l	96
41) Methacrylonitrile	7.24	41	223	2.80	ug/l #	10
43) Isopropyl Acetate	8.24	43	28443	0.71	ug/l #	72
49) 1,4-Dioxane	9.20	88	211	2.19	ug/l #	72
55) 1,1,2-Trichloroethane	10.53	97	1946	0.23	ug/l #	15
56) Ethyl methacrylate	10.43	69	1098	2.12	ug/l #	1
59) 2-Hexanone	10.61	43	6516	6.25	ug/l	79
65) Chlorobenzene	11.44	112	301057	12.79	ug/l	99
69) o-Xylene	11.95	106	4890	0.36	ug/l	89
70) Styrene	11.96	104	326	0.94	ug/l #	1
71) Bromoform	12.40	173	3851	0.59	ug/l #	1
73) Isopropylbenzene	12.25	105	25208	0.78	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.48	83	246	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	224400	28.84	ug/l #	100
78) n-propylbenzene	12.59	91	11975	0.33	ug/l	99
80) 1,3,5-Trimethylbenzene	12.89	105	13734	0.54	ug/l	78
81) trans-1,4-Dichloro-2-buten	12.40	75	224400	91.47	ug/l #	13
83) tert-Butylbenzene	12.99	119	5283	0.24	ug/l	92
85) sec-Butylbenzene	13.17	105	20980	0.70	ug/l	83
86) p-Isopropyltoluene	13.44	119	24300	0.97	ug/l	95

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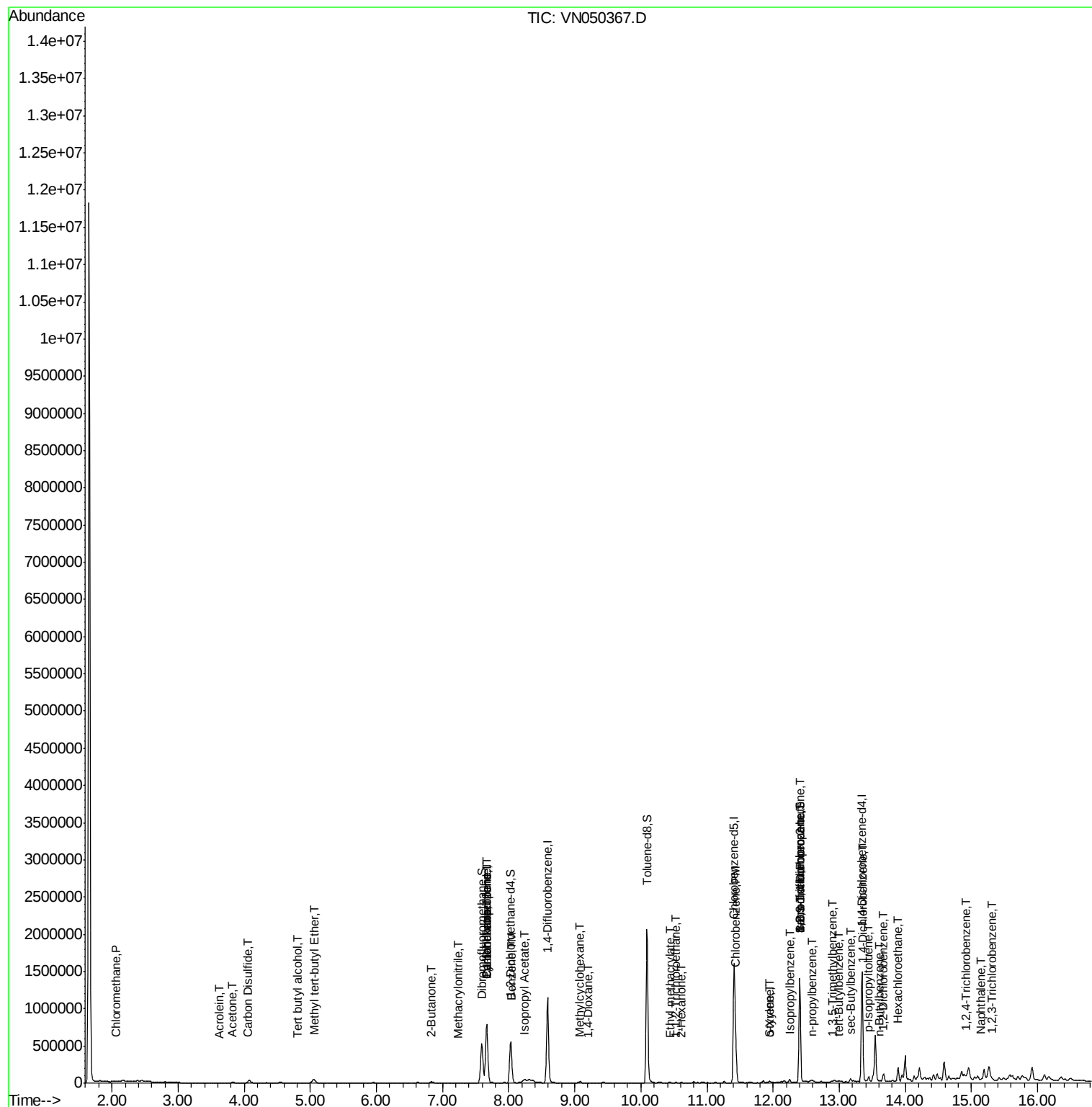
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) 1,4-Dichlorobenzene	13.36	146	4907	0.33	ug/l #	2
89) n-Butylbenzene	13.61	91	8077	0.39	ug/l	90
90) Hexachloroethane	13.89	117	11655	2.09	ug/l #	4
91) 1,2-Dichlorobenzene	13.65	146	9162	0.60	ug/l	87
92) 1,2-Dibromo-3-Chloropropan	14.29	75	936	Below	Cal #	1
93) 1,2,4-Trichlorobenzene	14.91	180	107	3.10	ug/l #	1
95) Naphthalene	15.14	128	1733	4.50	ug/l #	75
96) 1,2,3-Trichlorobenzene	15.31	180	105	2.22	ug/l #	48

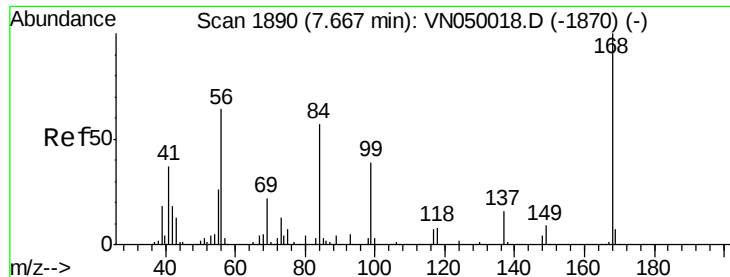
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampled :

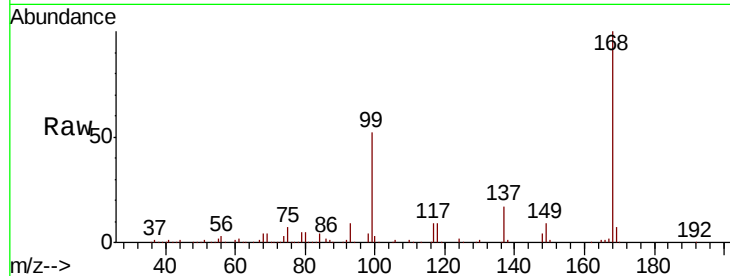
MW-15

Tot Ion:168 Resp: 660592

Ion Ratio Lower Upper

168 100

99 51.8 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050018.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050018.D (-1870) (-)

7.67

250000

200000

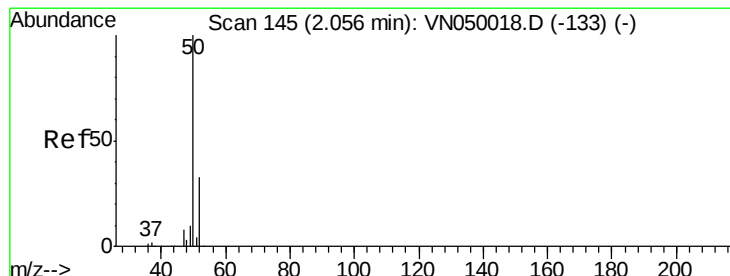
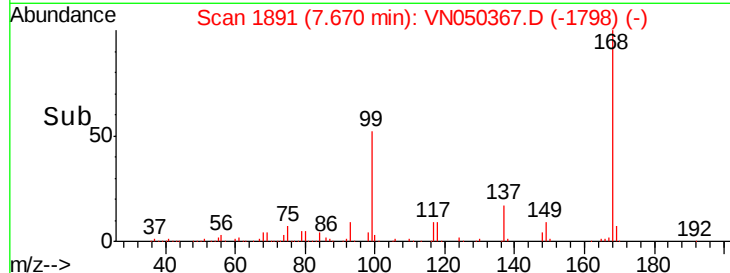
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.39 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050367.D

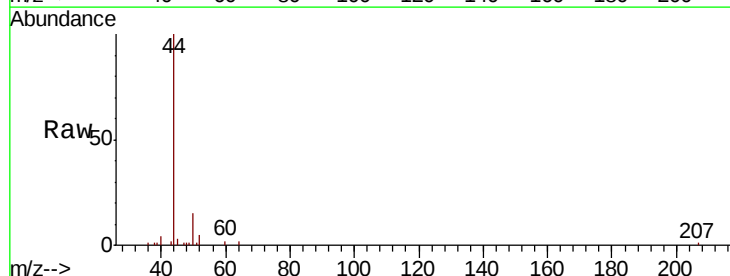
Acq: 4 Aug 2018 15:21

Tgt Ion: 50 Resp: 3975

Ion Ratio Lower Upper

50 100

52 32.5 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN050018.D (-133) (-)

Ion 51.90 (51.60 to 52.60): VN050018.D (-133) (-)

2.06

3000

2500

2000

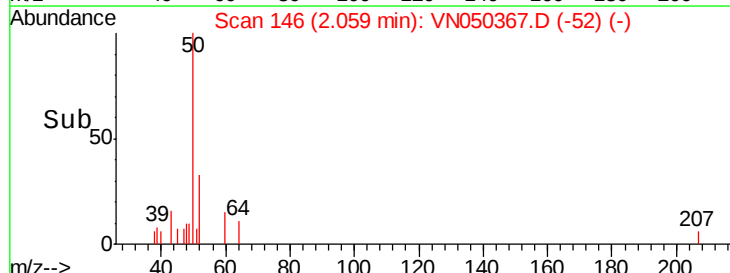
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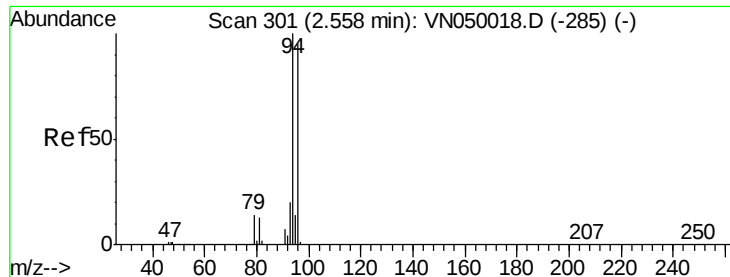
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.02 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampled :

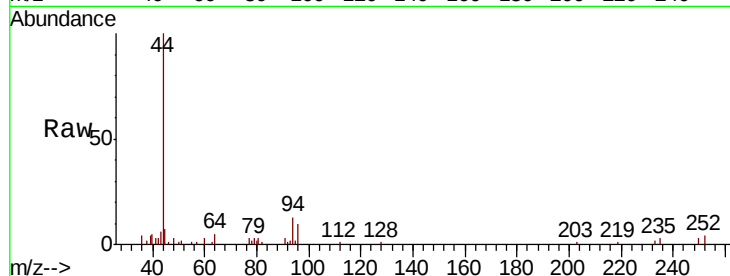
MW-15

Tot Ion: 94 Resp: 3582

Ion Ratio Lower Upper

94 100

96 78.0 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

1500

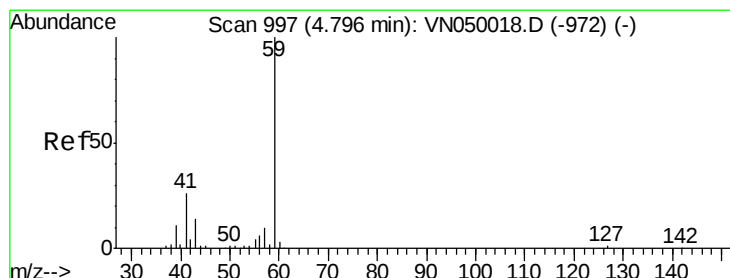
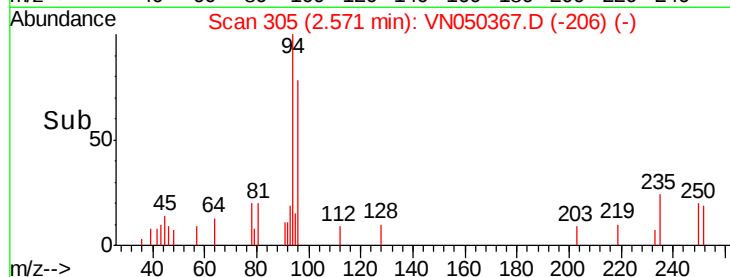
1000

500

0

Time-->

2.50 2.55 2.60 2.65



#11

Tert butyl alcohol

Concen: 8.54 ug/l

RT: 4.79 min Scan# 996

Delta R.T. -0.01 min

Lab File: VN050367.D

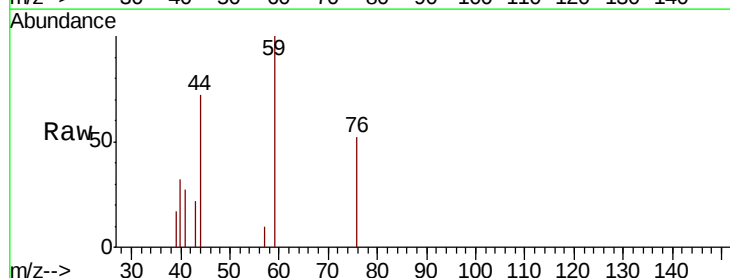
Acq: 4 Aug 2018 15:21

Tgt Ion: 59 Resp: 5791

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

4.79

1500

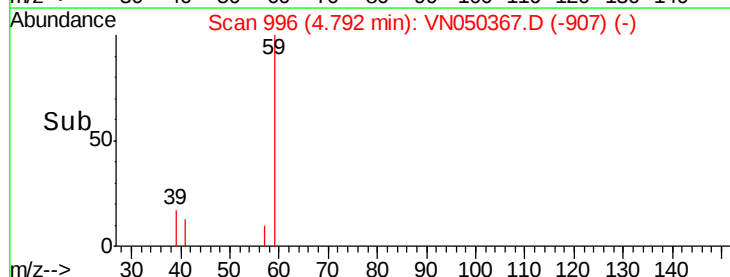
1000

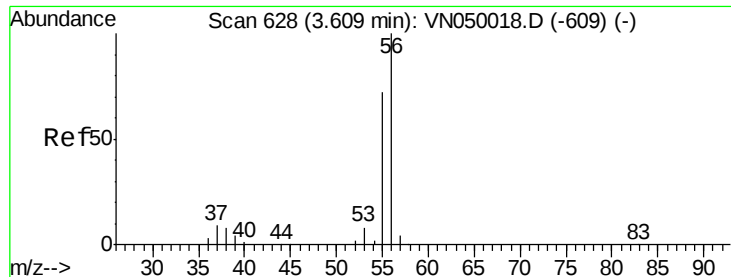
500

0

Time-->

4.70 4.75 4.80 4.85 4.90





#13

Acrolein

Concen: 0.53 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampled :

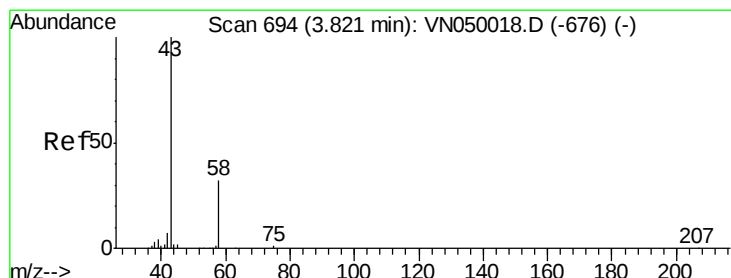
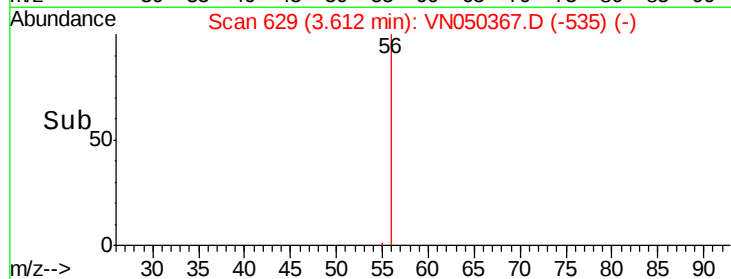
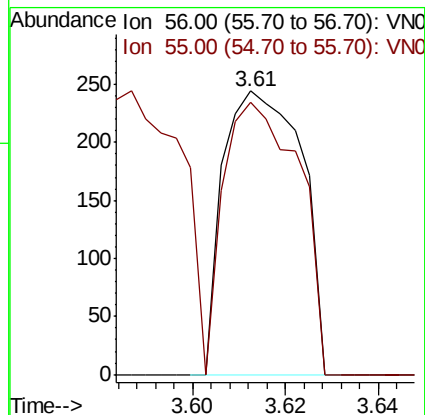
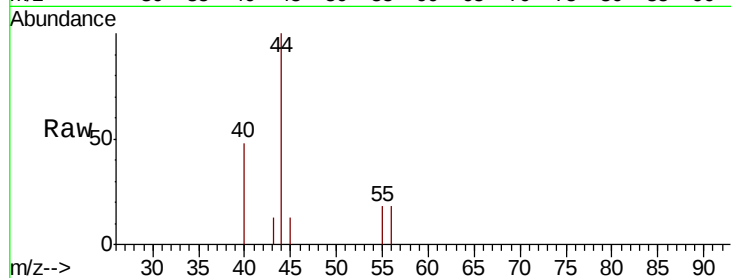
MW-15

Tot Ion: 56 Resp: 287

Ion Ratio Lower Upper

56 100

55 92.7 55.8 83.6#



#16

Acetone

Concen: 7.24 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050367.D

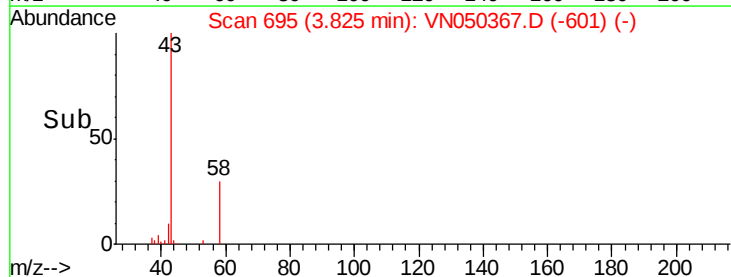
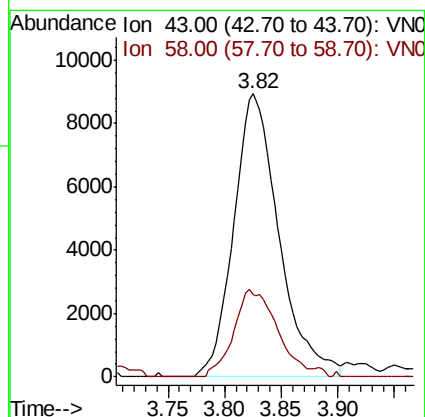
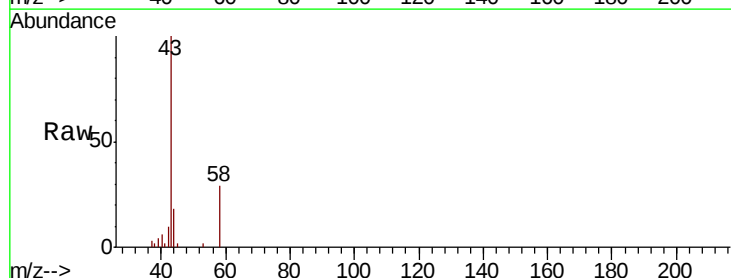
Acq: 4 Aug 2018 15:21

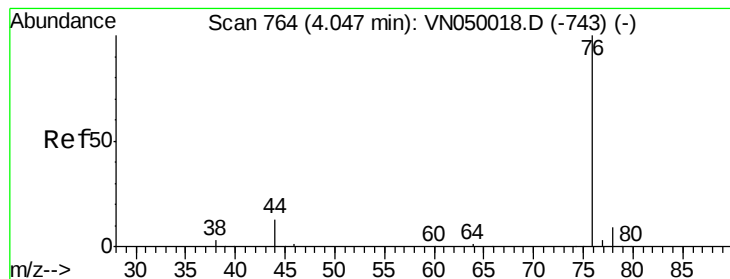
Tgt Ion: 43 Resp: 24863

Ion Ratio Lower Upper

43 100

58 29.3 25.8 38.8





#17

Carbon Disulfide

Concen: 0.45 ug/l

RT: 4.05 min Scan# 764

Delta R.T. -0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampled :

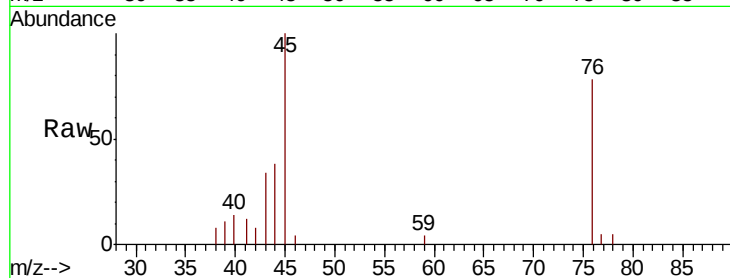
MW-15

Tot Ion: 76 Resp: 10559

Ion Ratio Lower Upper

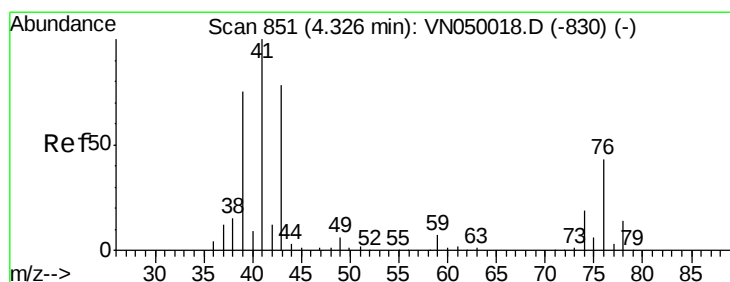
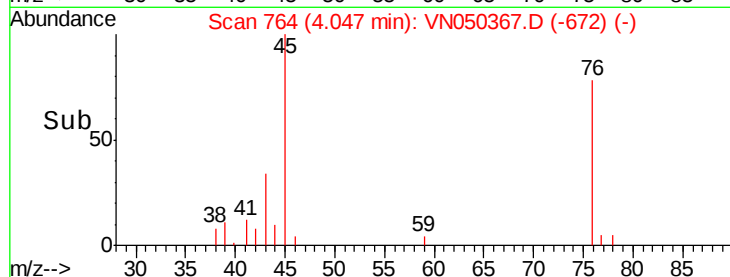
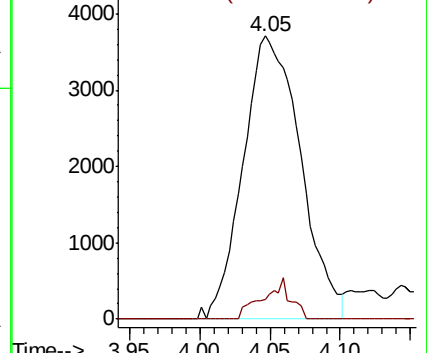
76 100

78 7.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050367.D

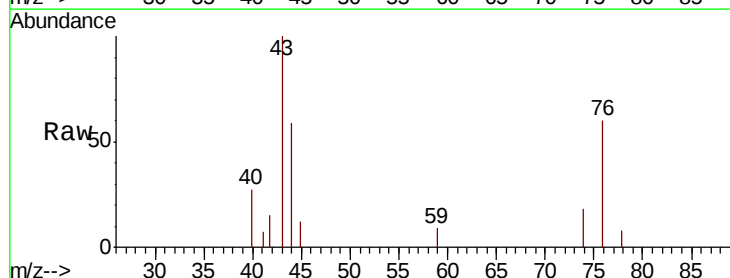
Acq: 4 Aug 2018 15:21

Tgt Ion: 43 Resp: 5916

Ion Ratio Lower Upper

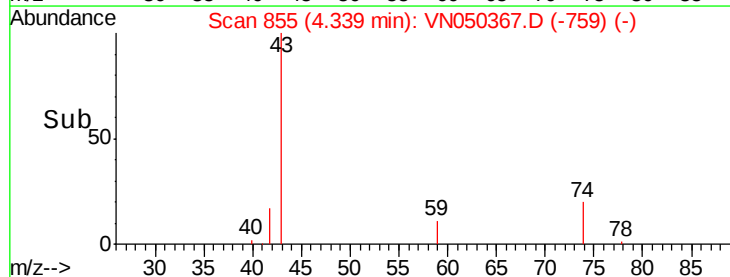
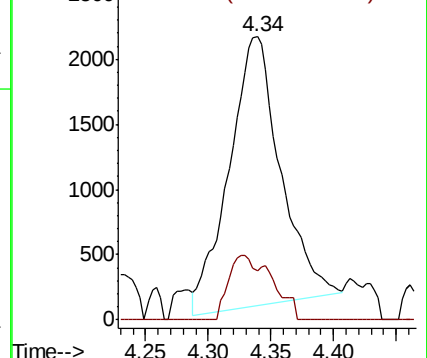
43 100

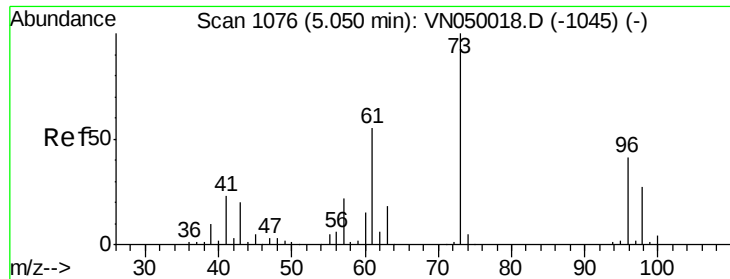
74 12.4 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

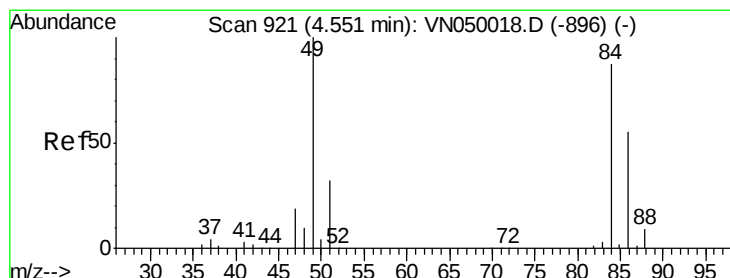
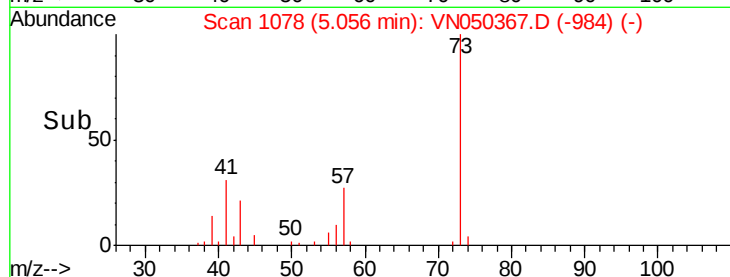
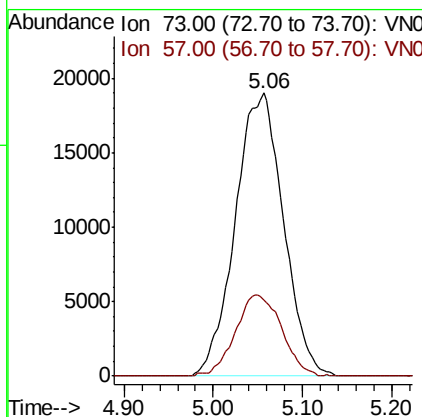
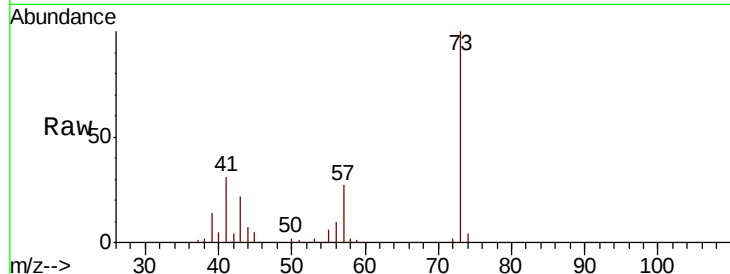




#19
Methyl tert-butyl Ether
Concen: 3.51 ug/l
RT: 5.06 min Scan# 1078
Delta R.T. 0.00 min
Lab File: VN050367.D
Acq: 4 Aug 2018 15:21

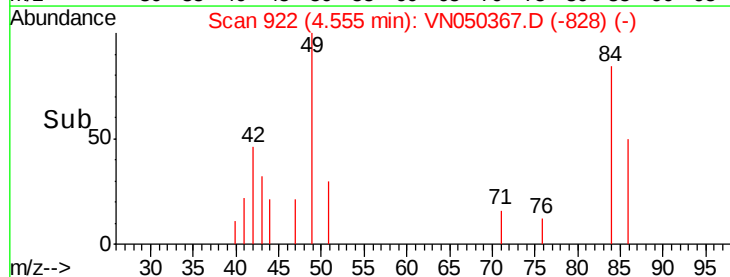
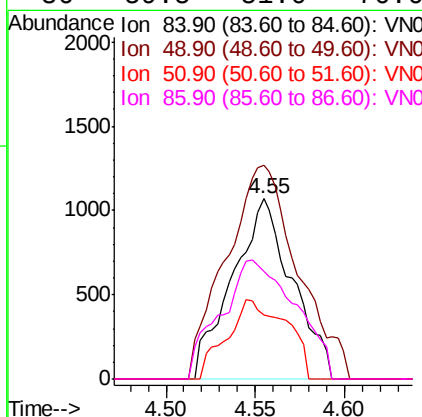
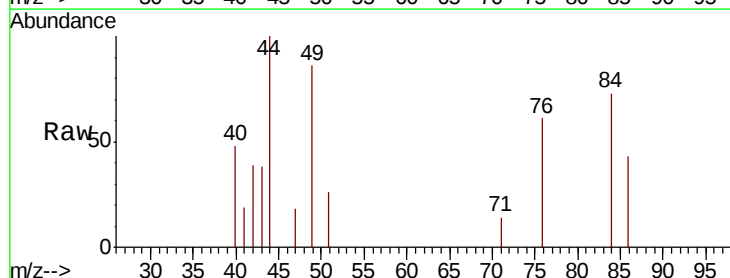
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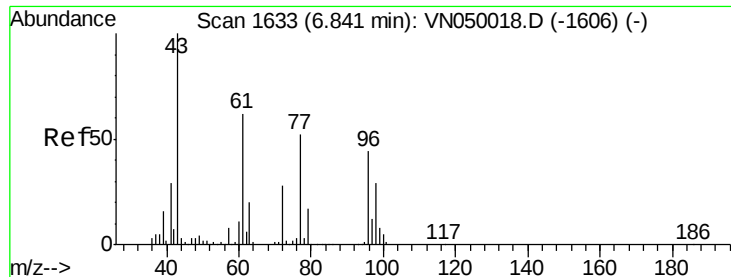
Tot Ion: 73 Resp: 71201
Ion Ratio Lower Upper
73 100
57 27.0 18.0 27.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050367.D
Acq: 4 Aug 2018 15:21

Tgt Ion: 84 Resp: 2499
Ion Ratio Lower Upper
84 100
49 118.5 94.8 142.2
51 35.7 28.3 42.5
86 59.5 51.0 76.6

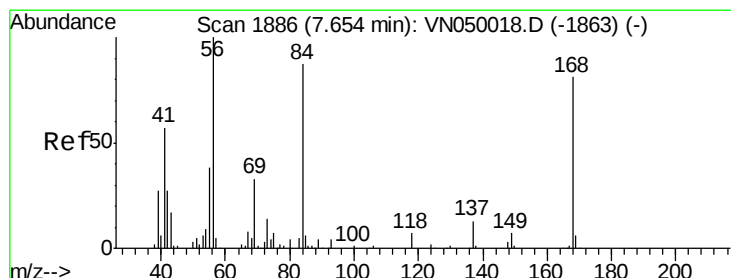
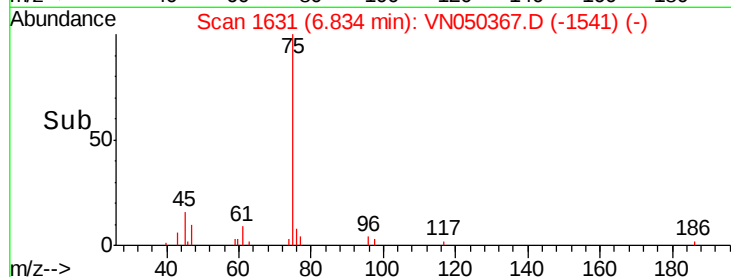
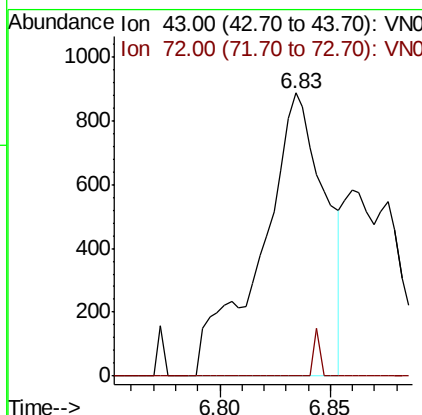
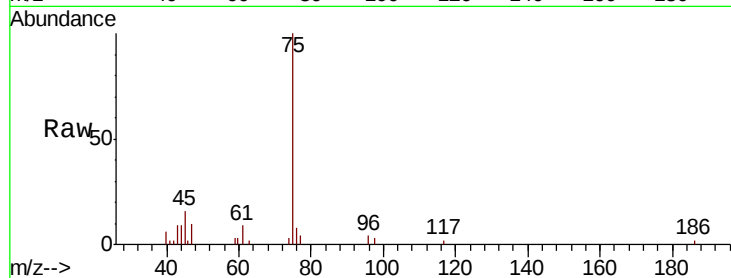




#25
2-Butanone
Concen: 0.50 ug/l
RT: 6.83 min Scan# 1631
Delta R.T. -0.01 min
Lab File: VN050367.D
Acq: 4 Aug 2018 15:21

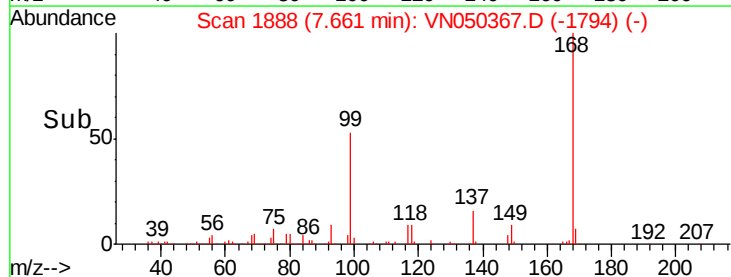
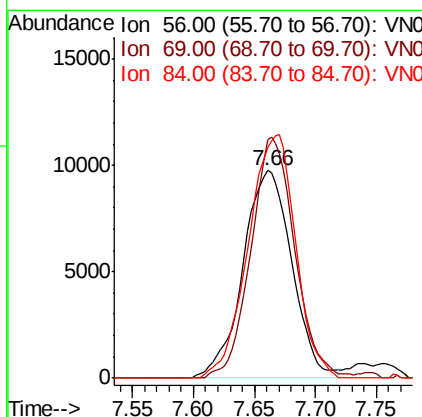
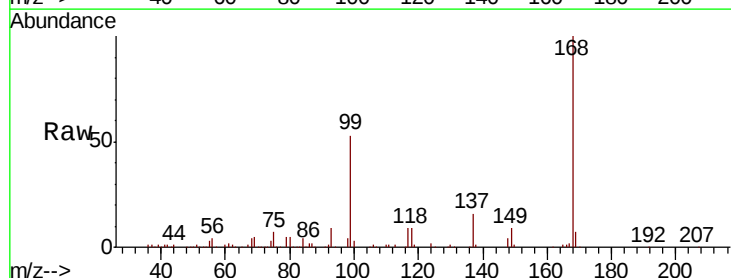
Instrument :
MSVOA_N
ClientSampleId :
MW-15

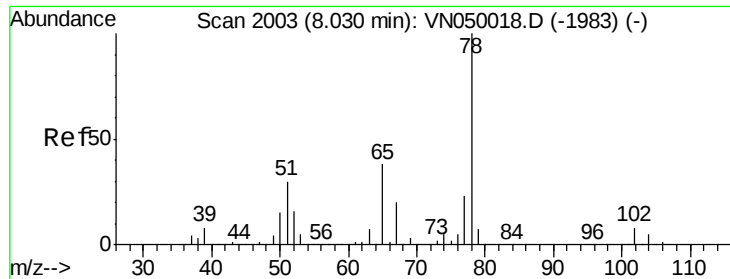
Tot Ion: 43 Resp: 1774
Ion Ratio Lower Upper
43 100
72 0.0 21.5 32.3#



#31
Cyclohexane
Concen: 2.08 ug/l
RT: 7.66 min Scan# 1888
Delta R.T. 0.00 min
Lab File: VN050367.D
Acq: 4 Aug 2018 15:21

Tgt Ion: 56 Resp: 27209
Ion Ratio Lower Upper
56 100
69 114.8 26.2 39.4#
84 111.2 67.4 101.0#

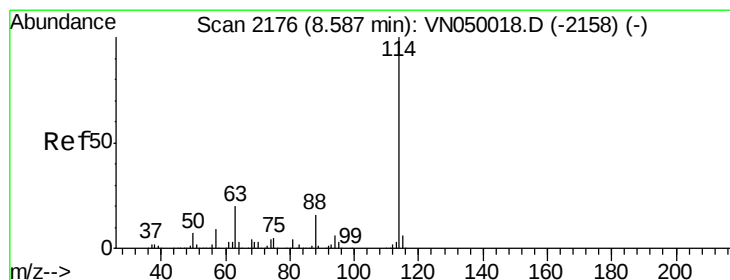
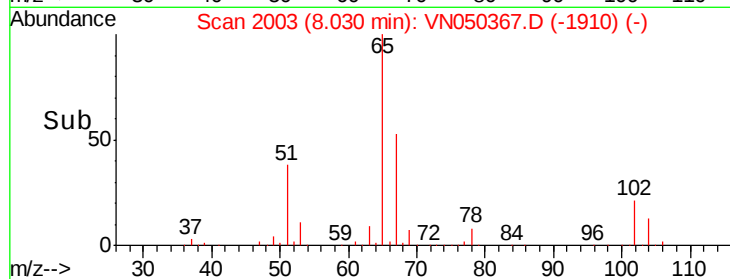
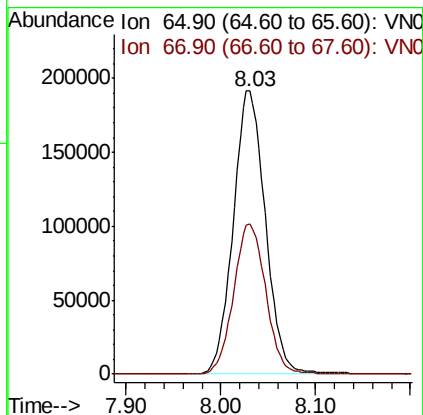
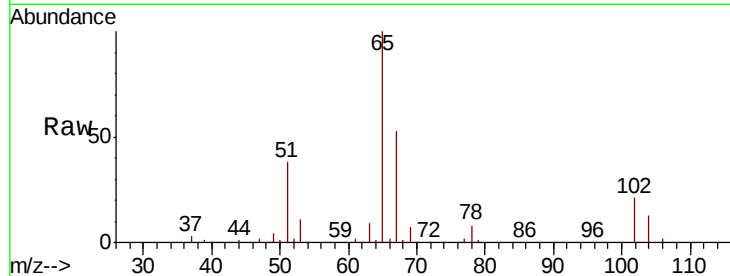




#33
 1,2-Dichloroethane-d4
 Concen: 49.04 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050367.D
 Acq: 4 Aug 2018 15:21

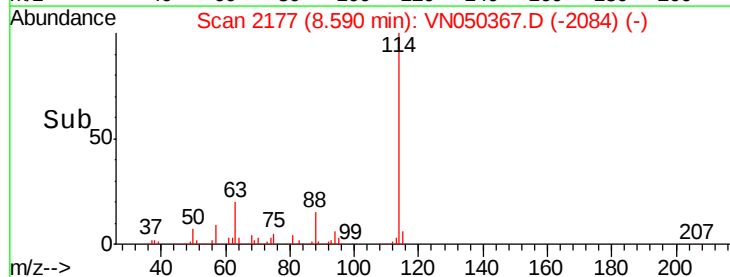
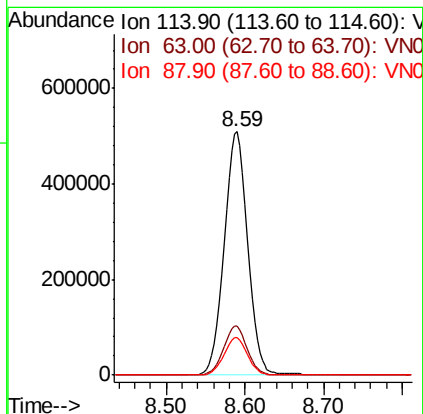
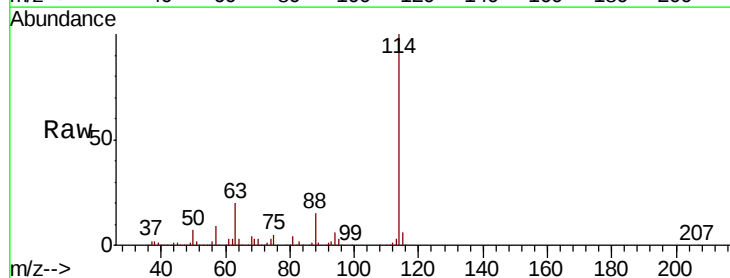
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-15

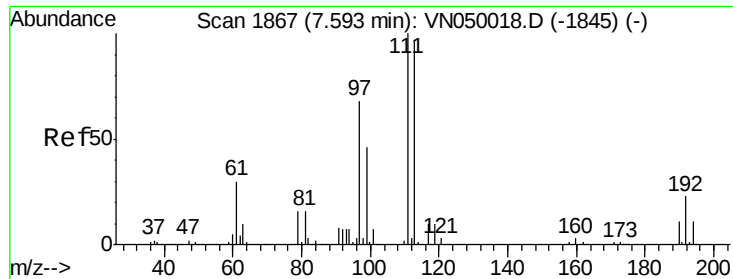
Tot Ion: 65 Resp: 451984
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050367.D
 Acq: 4 Aug 2018 15:21

Tgt Ion: 114 Resp: 1047297
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 15.5 0.0 31.2

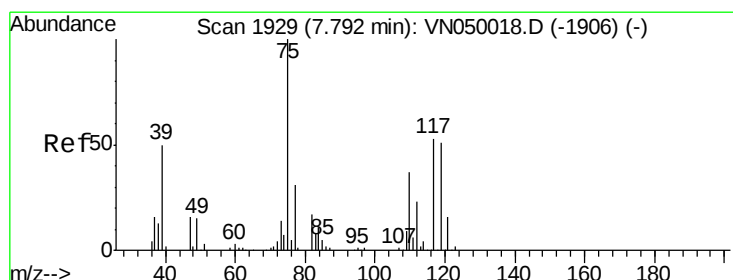
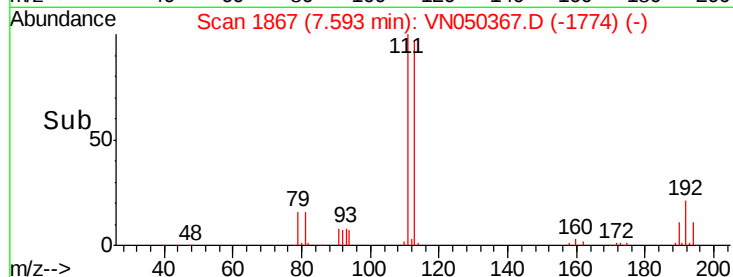
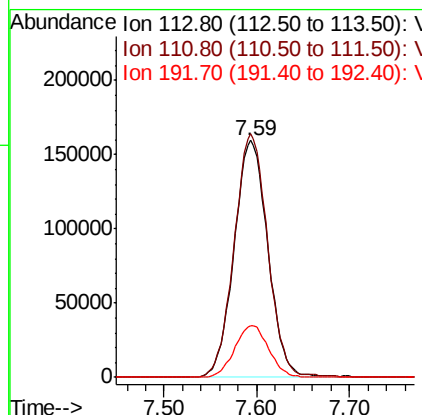
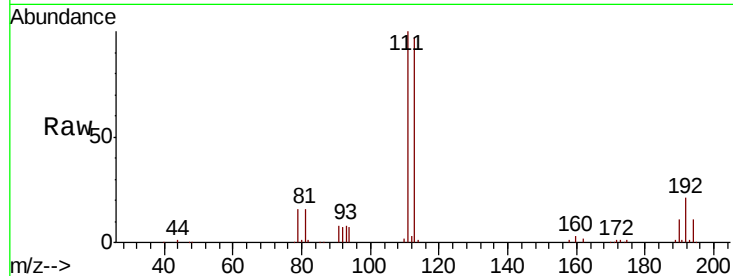




#35
 Dibromofluoromethane
 Concen: 47.04 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050367.D
 Acq: 4 Aug 2018 15:21

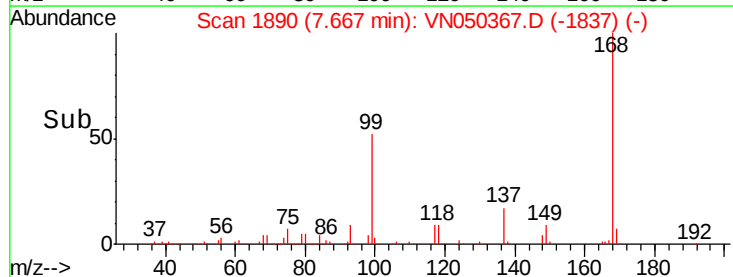
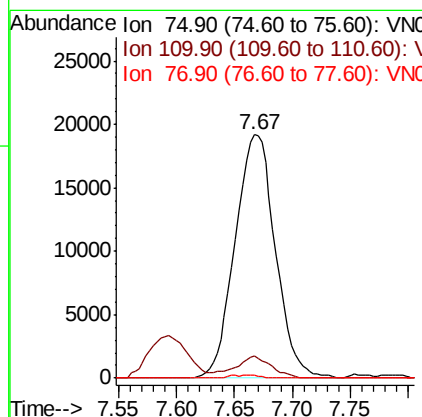
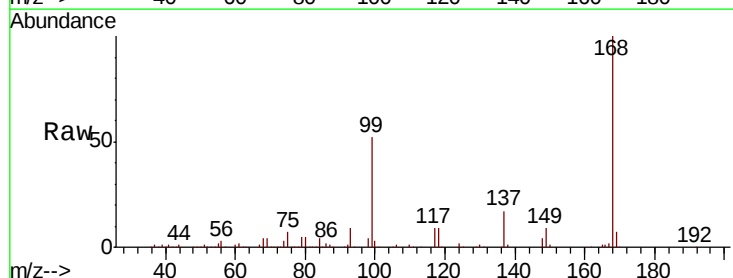
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-15

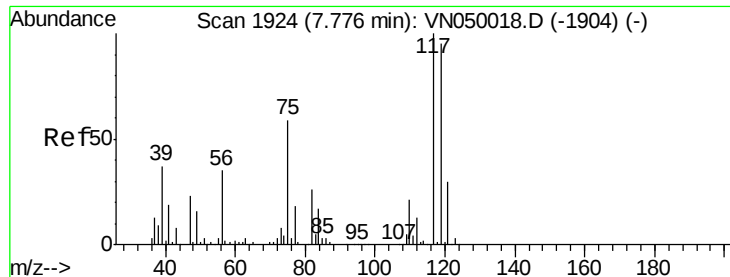
Tot Ion:113 Resp: 402267
 Ion Ratio Lower Upper
 113 100
 111 102.4 80.7 121.1
 192 22.1 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.92 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050367.D
 Acq: 4 Aug 2018 15:21

Tgt Ion: 75 Resp: 46234
 Ion Ratio Lower Upper
 75 100
 110 7.6 18.4 55.2#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 4.82 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampled :

MW-15

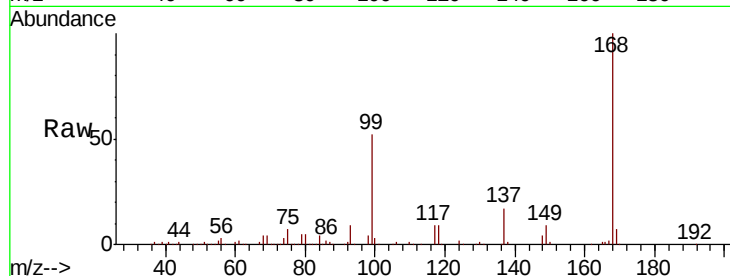
Tot Ion:117 Resp: 60395

Ion Ratio Lower Upper

117 100

119 5.1 77.4 116.0#

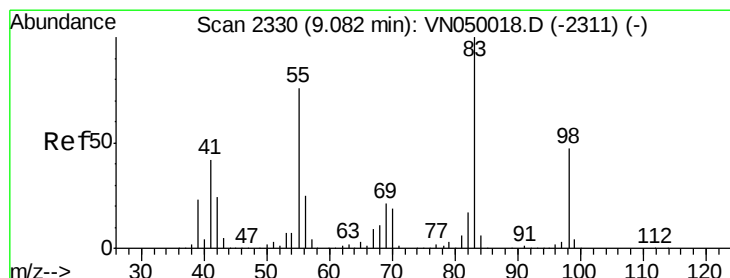
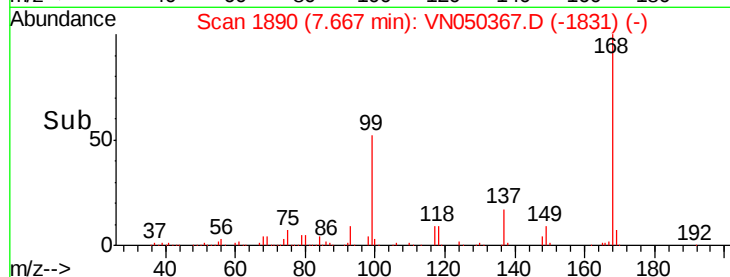
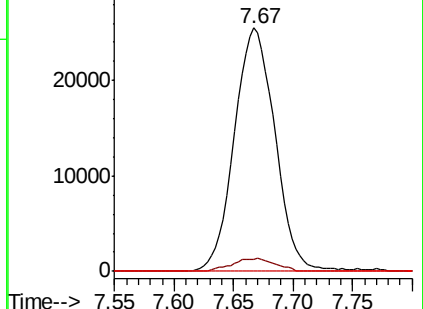
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.62 ug/l

RT: 9.08 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

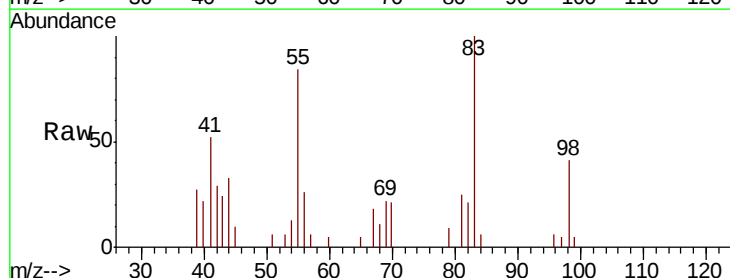
Tgt Ion: 83 Resp: 7476

Ion Ratio Lower Upper

83 100

55 84.2 61.8 92.8

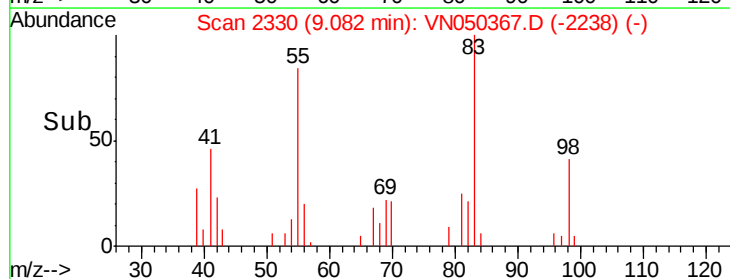
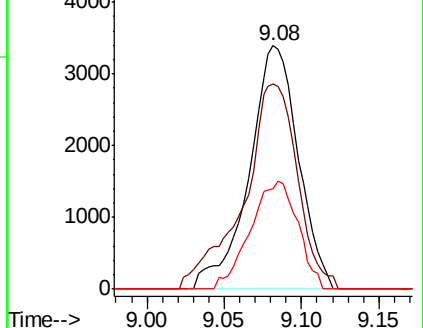
98 41.0 36.5 54.7

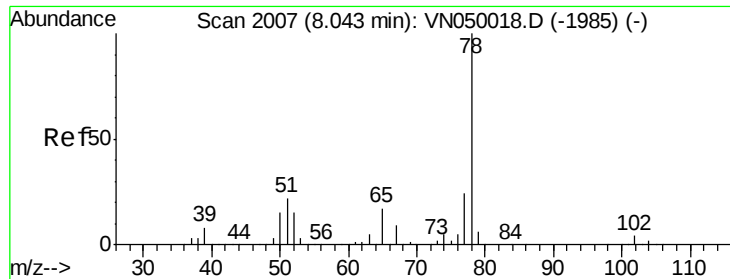


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0





#40

Benzene

Concen: 1.51 ug/l

RT: 8.05 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampled :

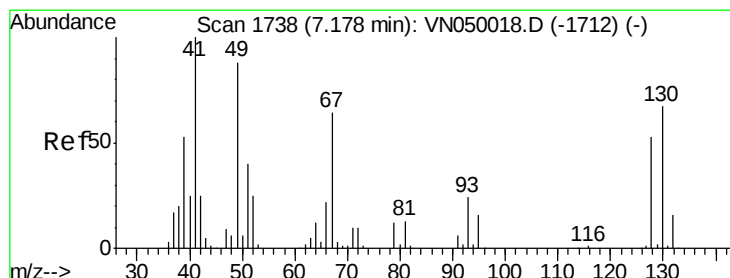
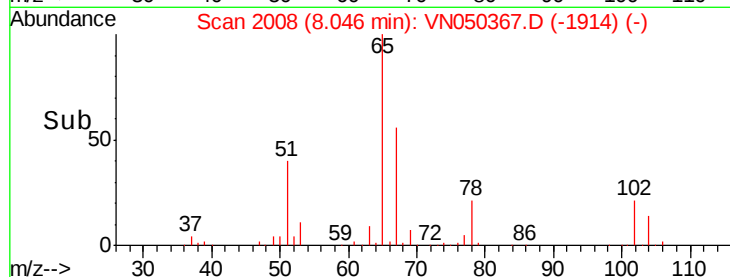
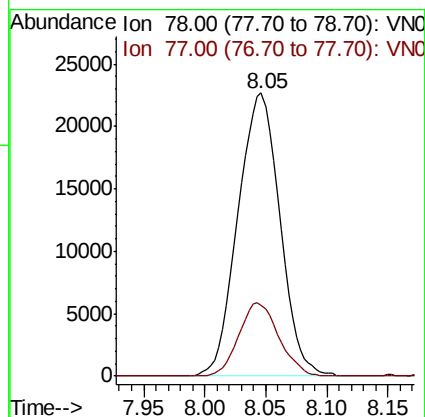
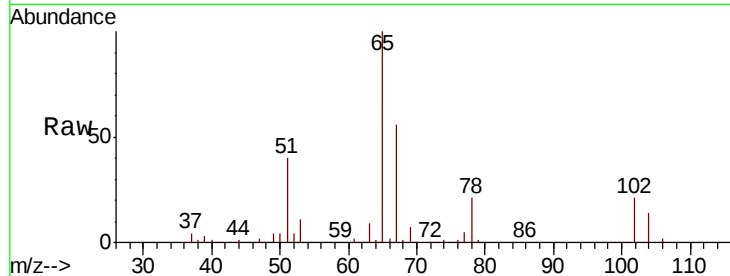
MW-15

Tot Ion: 78 Resp: 54120

Ion Ratio Lower Upper

78 100

77 25.2 18.7 28.1



#41

Methacrylonitrile

Concen: 2.80 ug/l

RT: 7.24 min Scan# 1757

Delta R.T. 0.07 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Tgt Ion: 41 Resp: 223

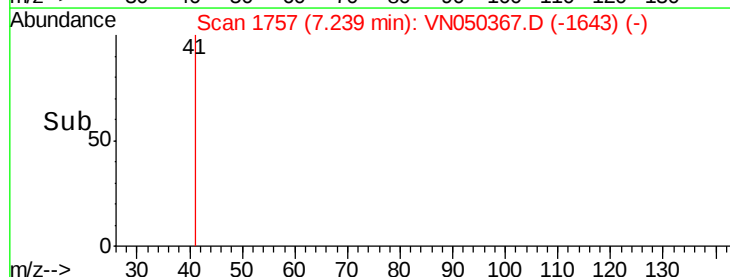
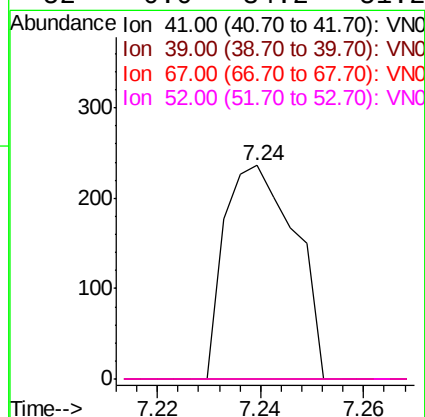
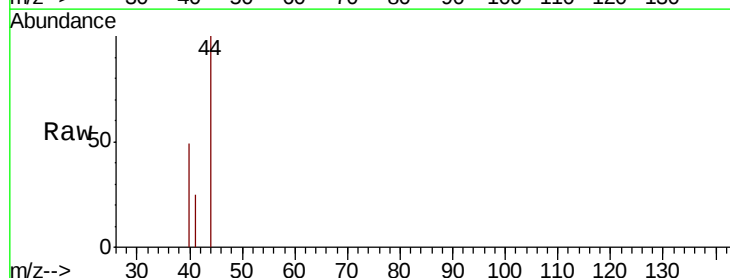
Ion Ratio Lower Upper

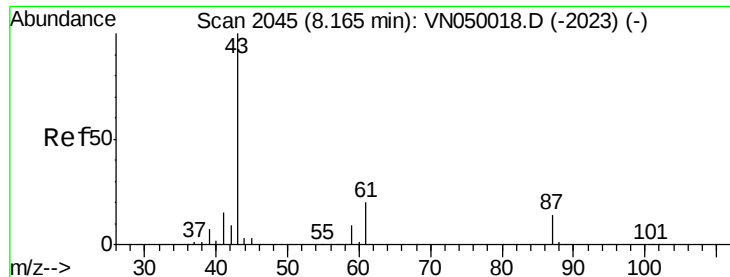
41 100

39 0.0 55.8 83.6#

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#





#43

Isopropyl Acetate

Concen: 0.71 ug/l

RT: 8.24 min Scan# 2068

Delta R.T. 0.07 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

MW-15

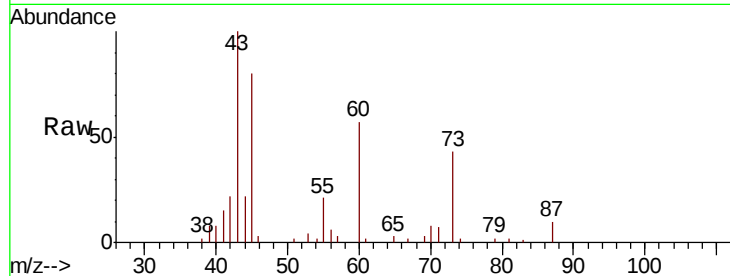
Tot Ion: 43 Resp: 28443

Ion Ratio Lower Upper

43 100

61 1.4 15.8 23.6#

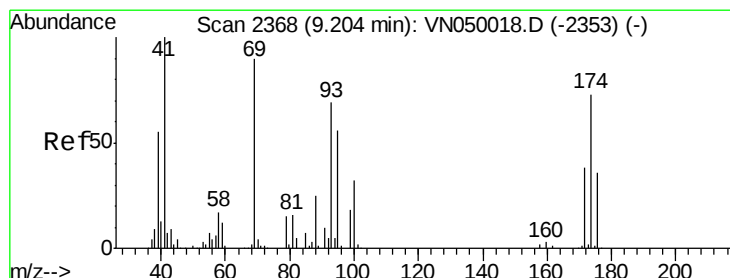
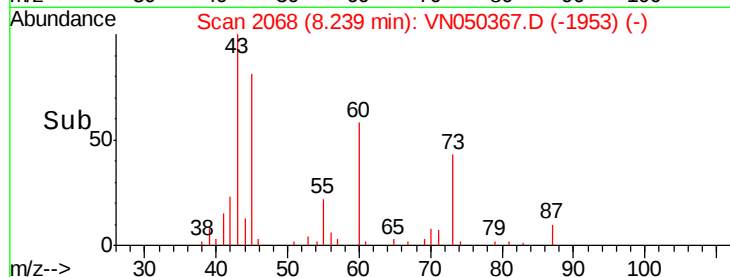
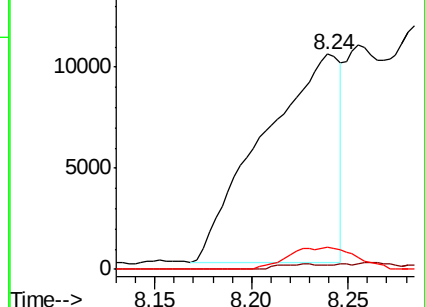
87 9.4 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#49

1,4-Dioxane

Concen: 2.19 ug/l

RT: 9.20 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

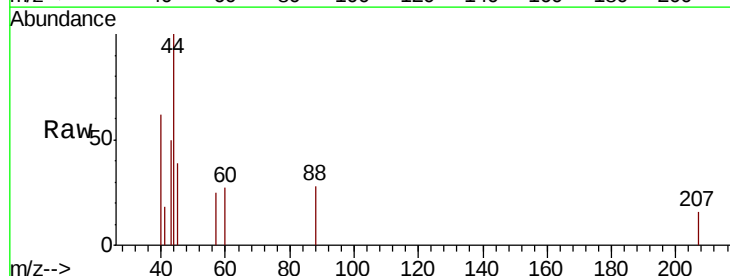
Tgt Ion: 88 Resp: 211

Ion Ratio Lower Upper

88 100

43 0.0 26.9 40.3#

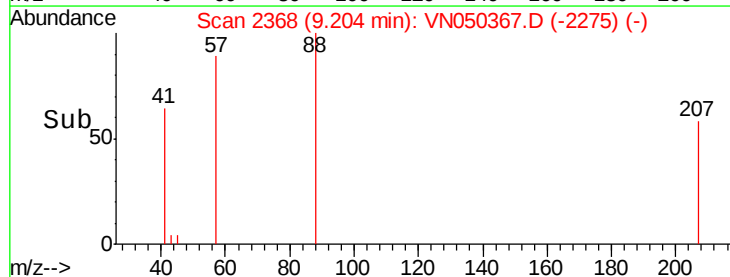
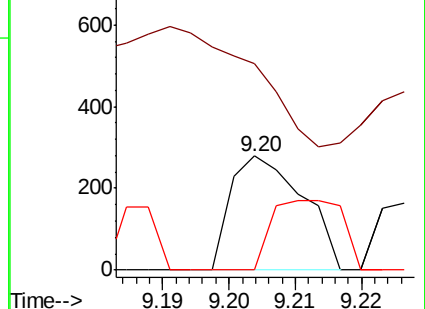
58 60.2 57.3 85.9

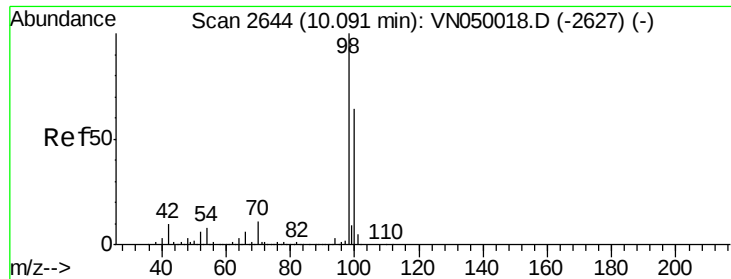


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 46.83 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

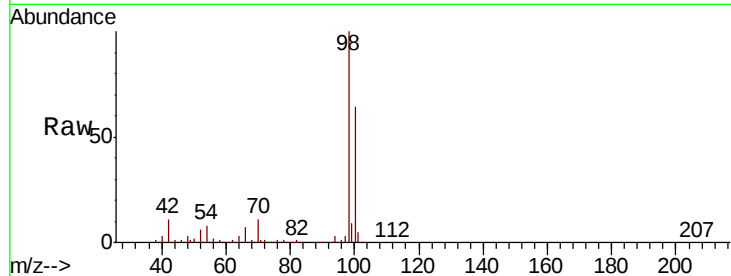
MW-15

Tot Ion: 98 Resp: 1472098

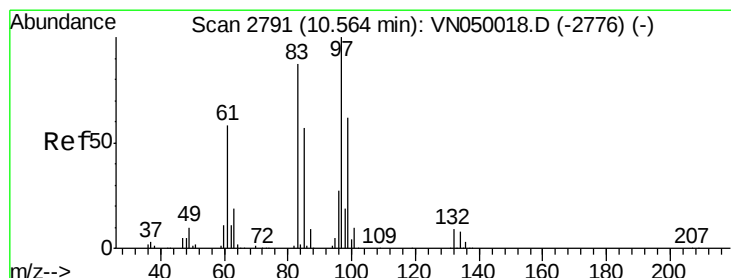
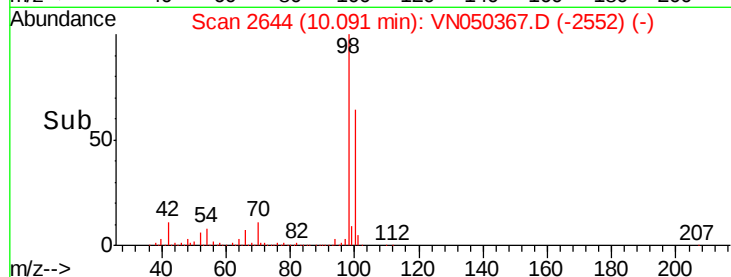
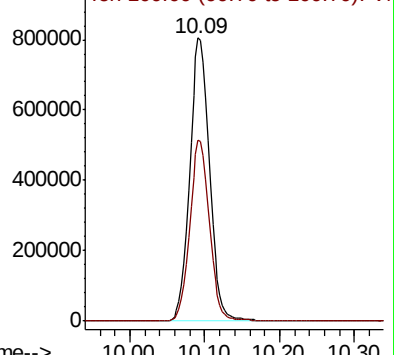
Ion Ratio Lower Upper

98 100

100 63.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN050018.D (-2627) (-)



#55

1,1,2-Trichloroethane

Concen: 0.23 ug/l

RT: 10.53 min Scan# 2779

Delta R.T. -0.04 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Tgt Ion: 97 Resp: 1946

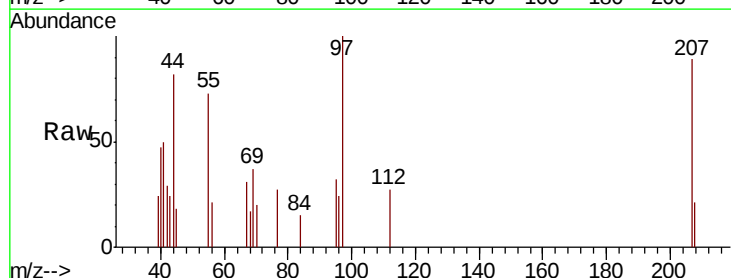
Ion Ratio Lower Upper

97 100

83 0.0 69.2 103.8#

85 0.0 44.0 66.0#

99 0.0 49.9 74.9#

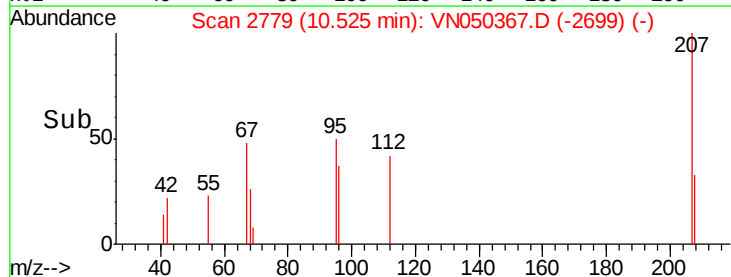
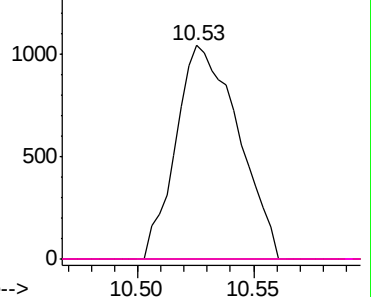


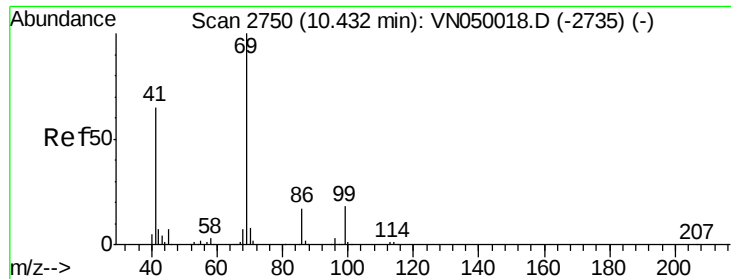
Abundance Ion 96.90 (96.60 to 97.60): VN050018.D (-2776) (-)

Ion 82.90 (82.60 to 83.60): VN050018.D (-2776) (-)

Ion 84.90 (84.60 to 85.60): VN050018.D (-2776) (-)

Ion 98.90 (98.60 to 99.60): VN050018.D (-2776) (-)





#56

Ethyl methacrylate

Concen: 2.12 ug/l

RT: 10.43 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampled :

MW-15

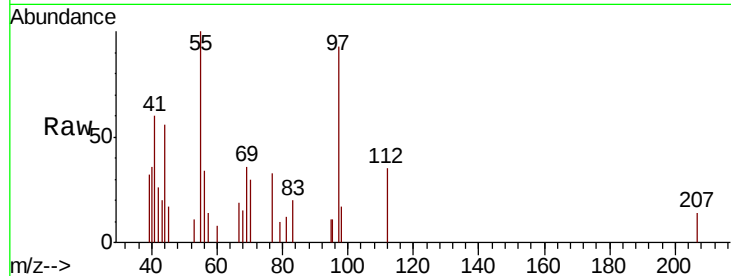
Tot Ion: 69 Resp: 1098

Ion Ratio Lower Upper

69 100

41 202.7 51.0 76.4#

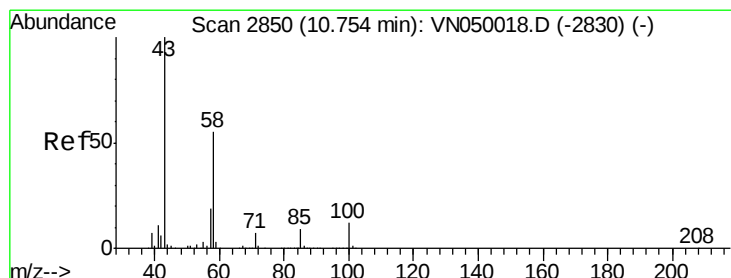
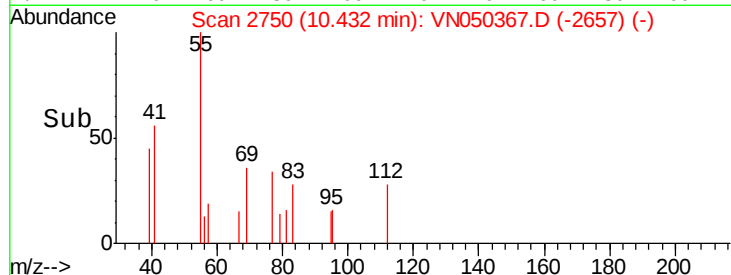
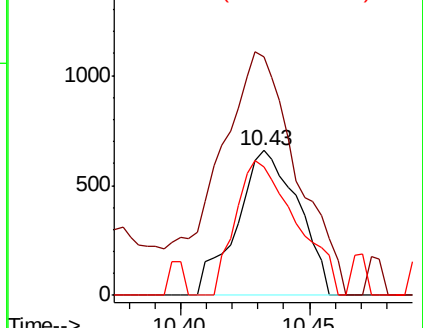
39 92.1 26.6 40.0#



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: 6.25 ug/l

RT: 10.61 min Scan# 2805

Delta R.T. -0.14 min

Lab File: VN050367.D

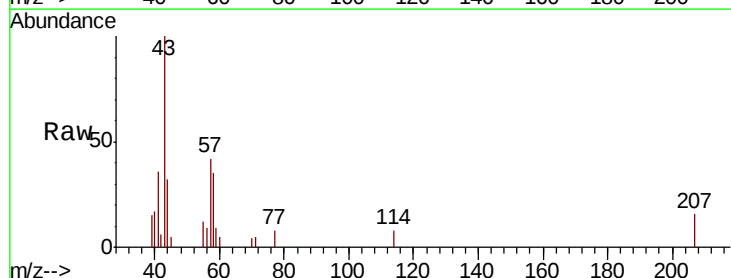
Acq: 4 Aug 2018 15:21

Tgt Ion: 43 Resp: 6516

Ion Ratio Lower Upper

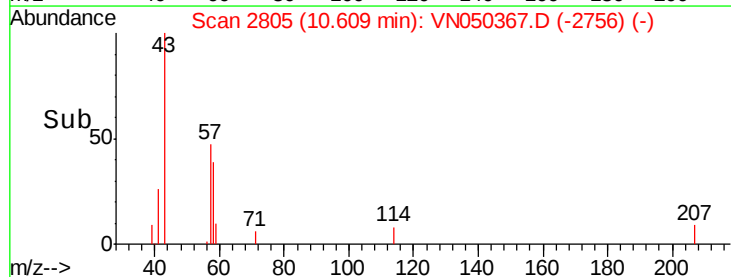
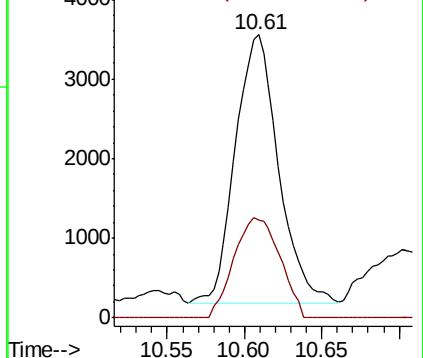
43 100

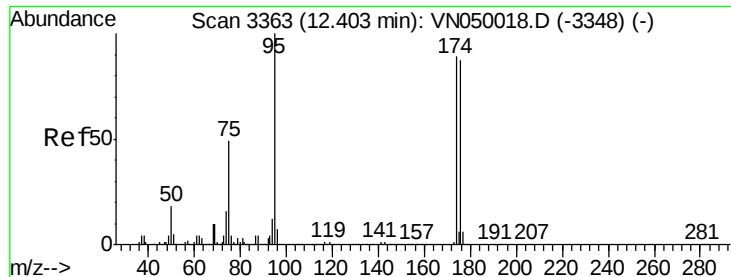
58 39.7 27.6 82.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 44.76 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

MW-15

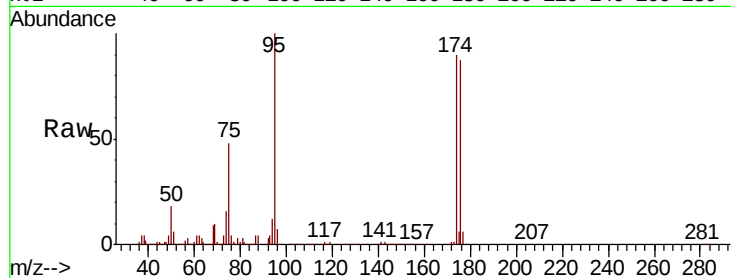
Tot Ion: 95 Resp: 463324

Ion Ratio Lower Upper

95 100

174 90.5 0.0 178.2

176 87.8 0.0 173.4

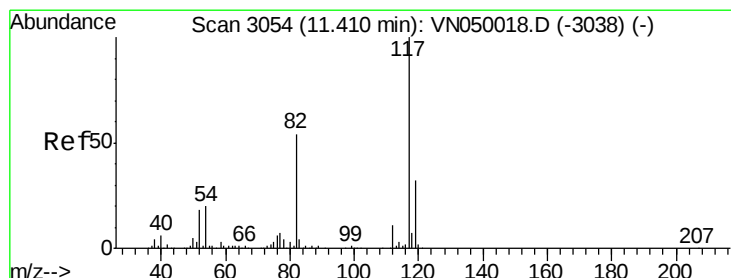
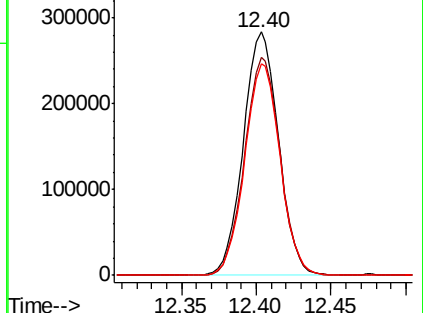
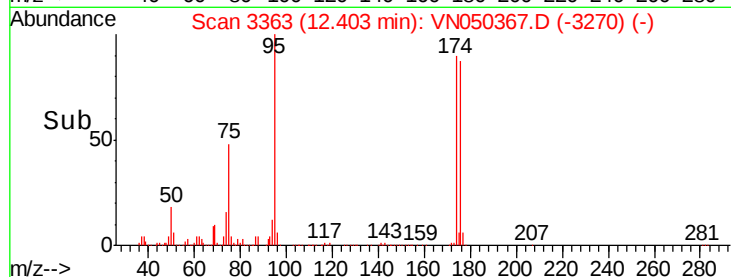


Abundance Ion 94.90 (94.60 to 95.60): VN050018.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050018.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050018.D (-3348) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

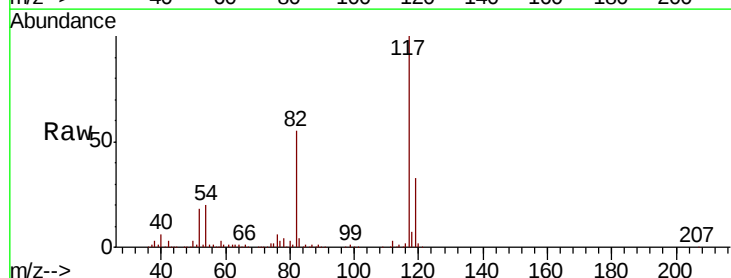
Tgt Ion: 117 Resp: 932160

Ion Ratio Lower Upper

117 100

82 54.5 43.7 65.5

119 32.5 26.1 39.1

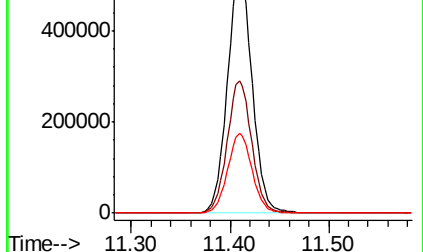
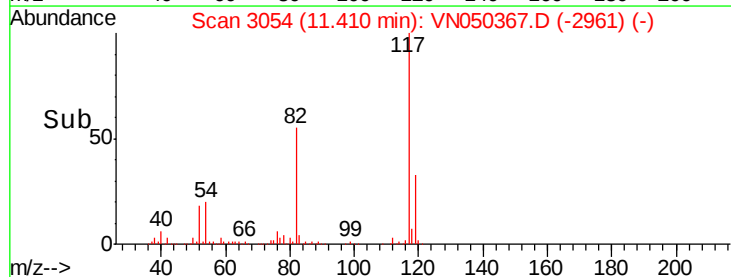


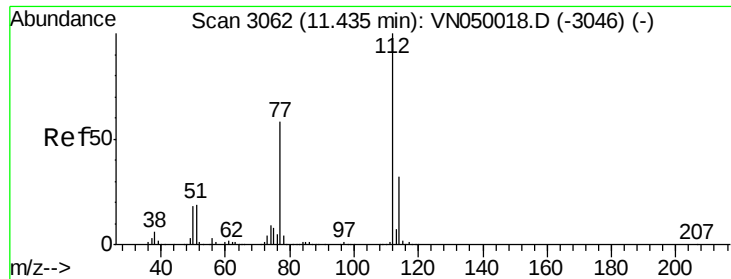
Abundance Ion 116.90 (116.60 to 117.60): VN050018.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050018.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050018.D (-3038) (-)

Time-->





#65

Chlorobenzene

Concen: 12.79 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

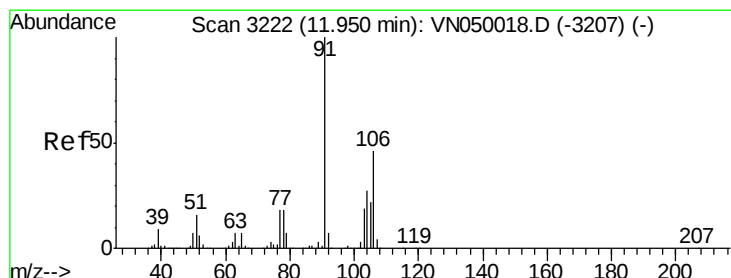
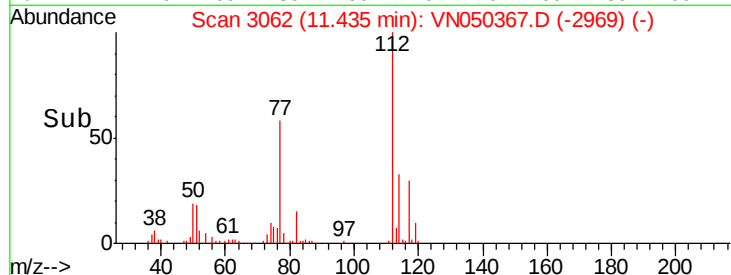
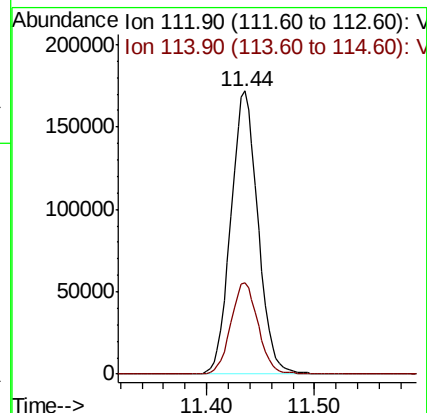
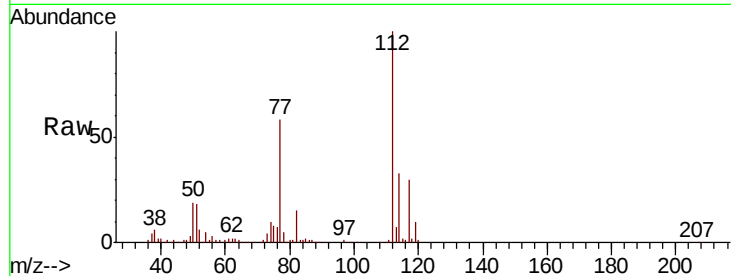
MW-15

Tot Ion:112 Resp: 301057

Ion Ratio Lower Upper

112 100

114 32.5 25.6 38.4



#69

o-Xylene

Concen: 0.36 ug/l

RT: 11.95 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN050367.D

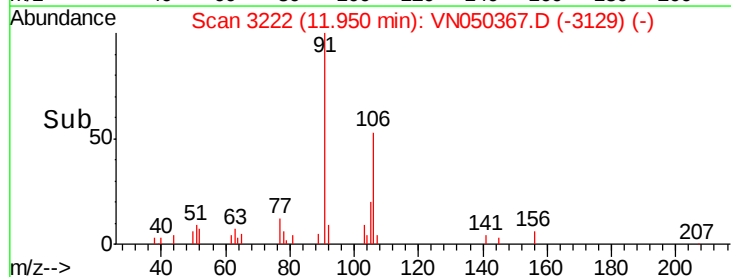
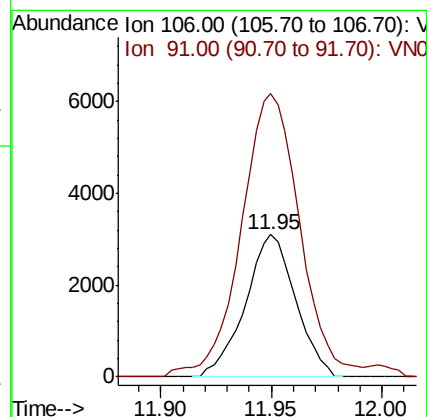
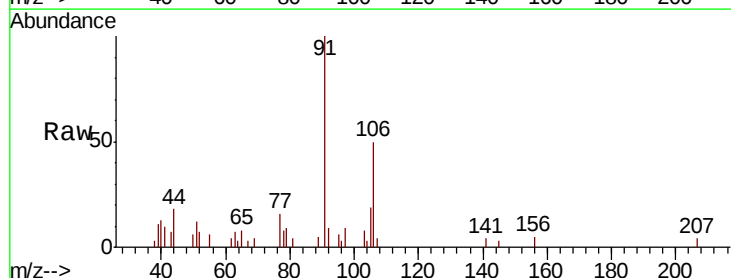
Acq: 4 Aug 2018 15:21

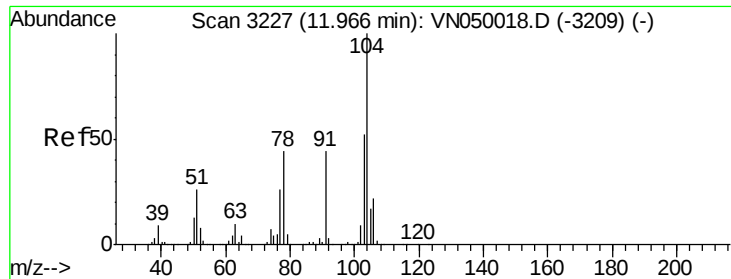
Tgt Ion:106 Resp: 4890

Ion Ratio Lower Upper

106 100

91 232.2 107.7 323.1





#70

Stvrene

Concen: 0.94 ug/l

RT: 11.96 min Scan# 3224

Delta R.T. -0.01 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

MW-15

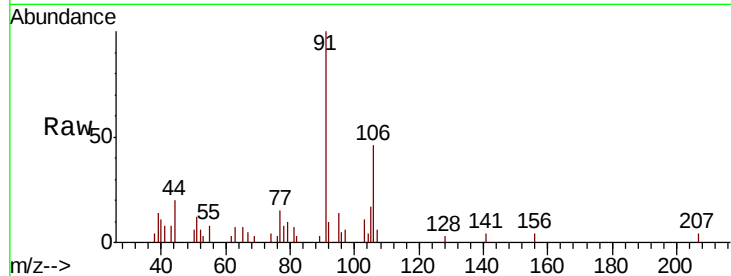
Tot Ion:104 Resp: 326

Ion Ratio Lower Upper

104 100

78 305.8 39.3 58.9#

103 340.5 45.0 67.6#

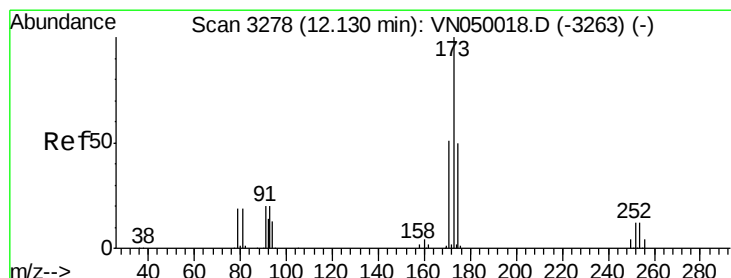
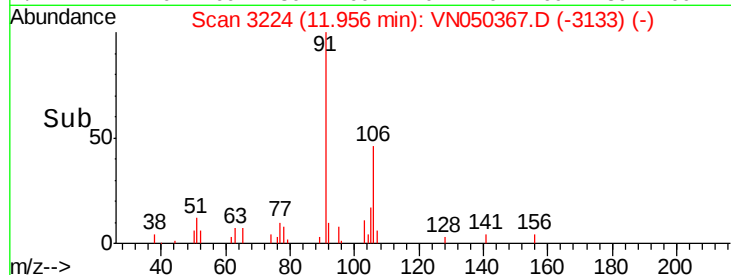
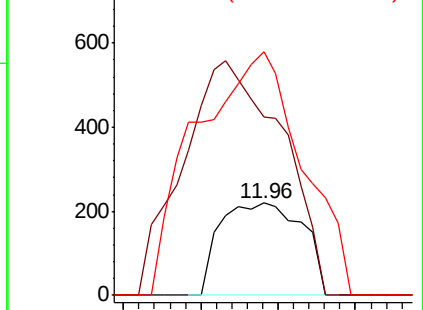


Abundance

Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.59 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

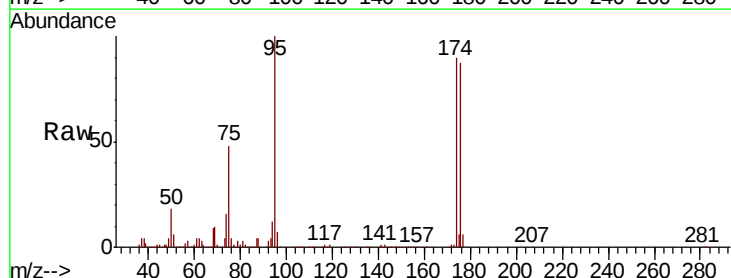
Tgt Ion:173 Resp: 3851

Ion Ratio Lower Upper

173 100

175 714.0 24.1 72.2#

254 0.0 0.2 0.2#

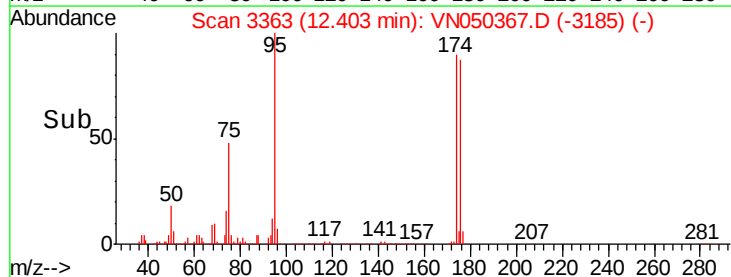
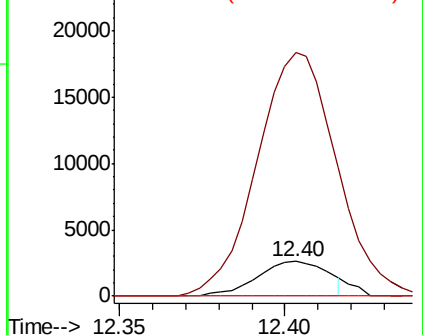


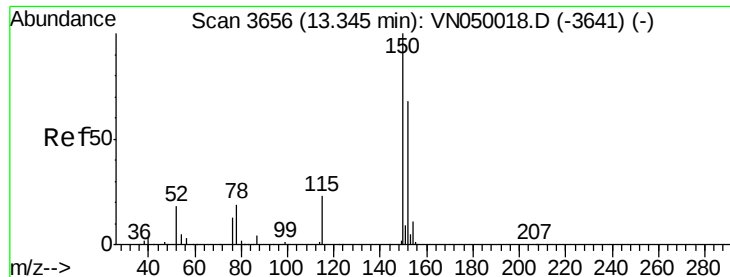
Abundance

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: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampled :

MW-15

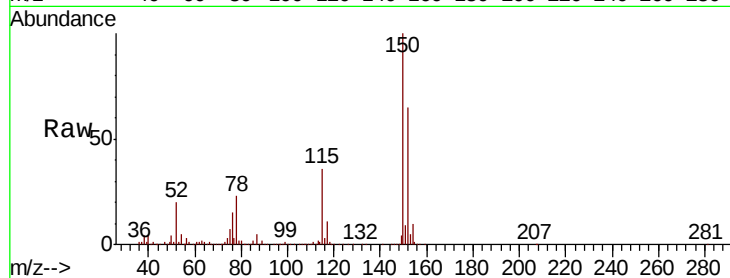
Tot Ion:152 Resp: 418705

Ion Ratio Lower Upper

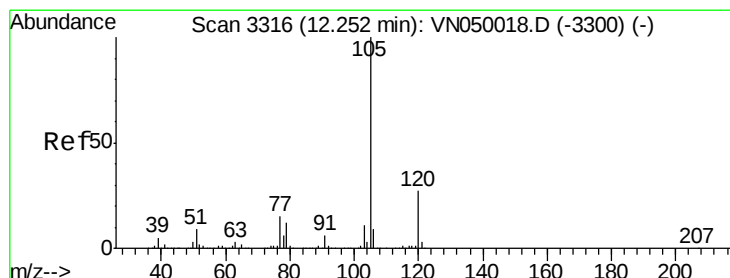
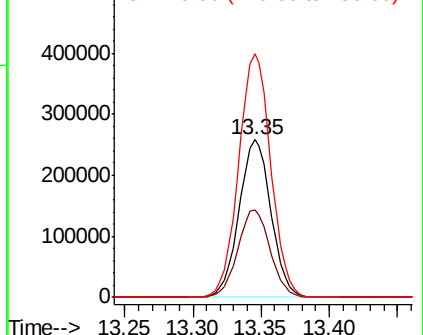
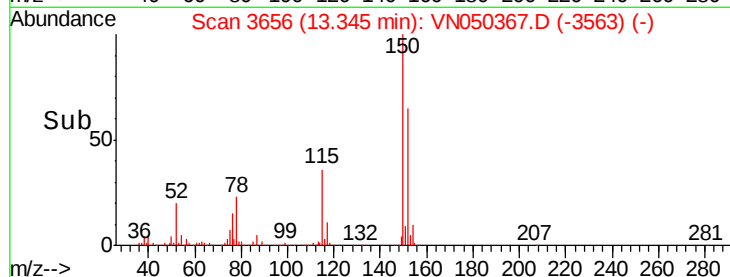
152 100

115 56.0 27.8 83.3

150 155.8 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



#73

Isopropylbenzene

Concen: 0.78 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050367.D

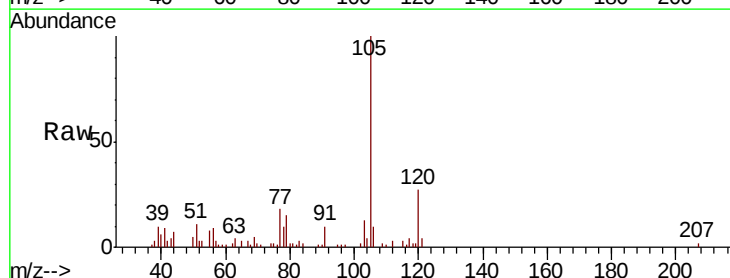
Acq: 4 Aug 2018 15:21

Tgt Ion:105 Resp: 25208

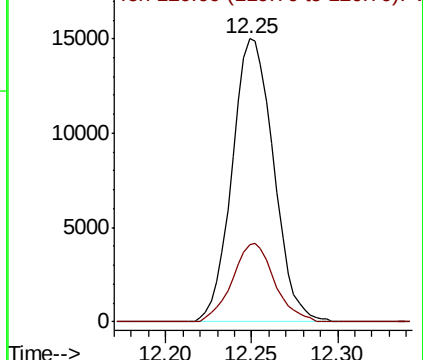
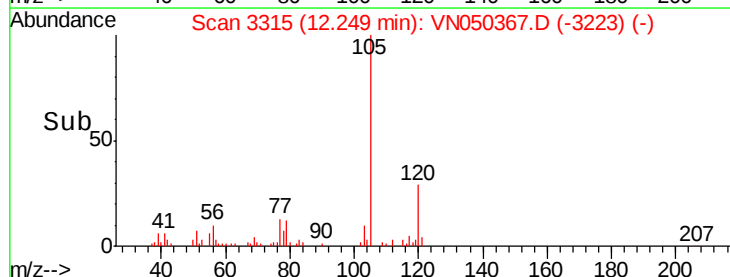
Ion Ratio Lower Upper

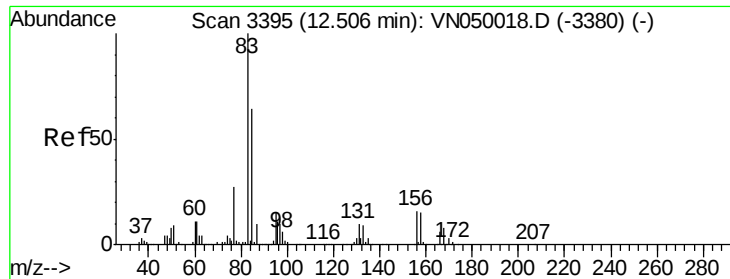
105 100

120 28.1 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.48 min Scan# 3387

Delta R.T. -0.02 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

MW-15

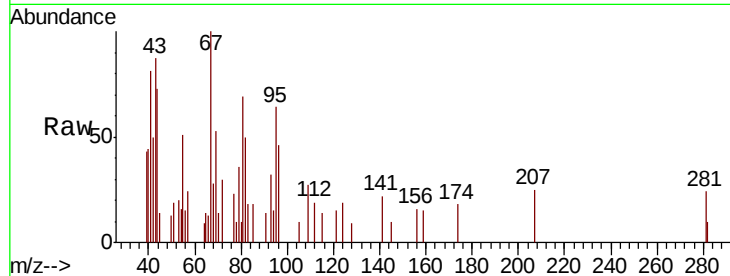
Tot Ion: 83 Resp: 246

Ion Ratio Lower Upper

83 100

131 11.8 5.1 15.3

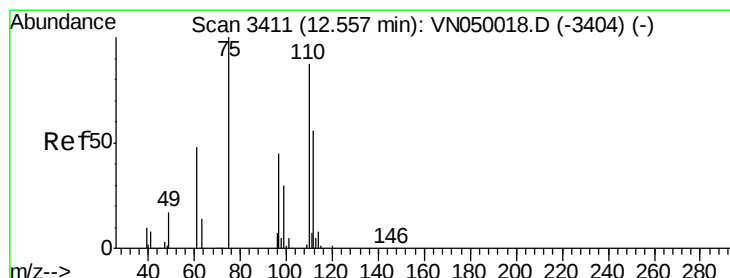
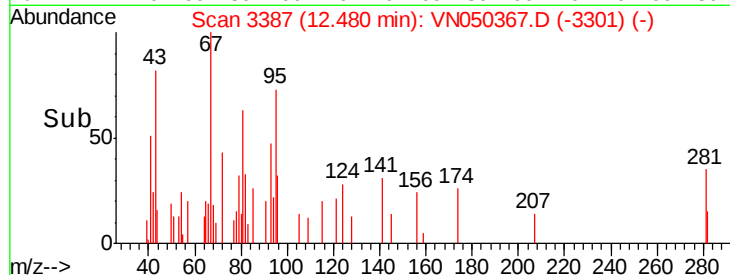
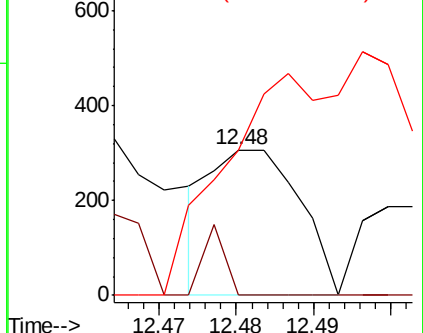
85 160.6 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 28.84 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050367.D

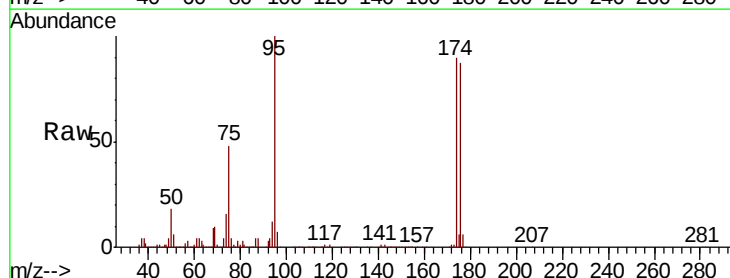
Acq: 4 Aug 2018 15:21

Tgt Ion: 75 Resp: 224400

Ion Ratio Lower Upper

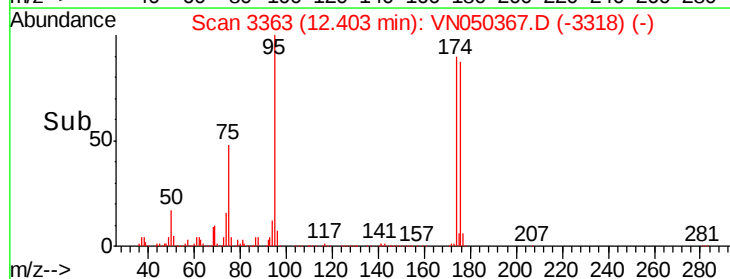
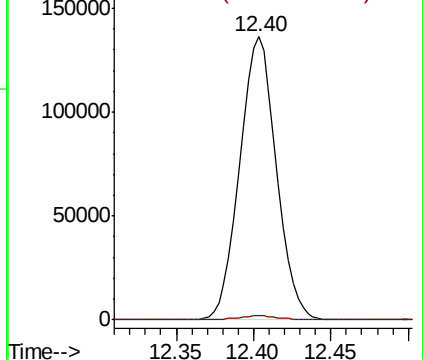
75 100

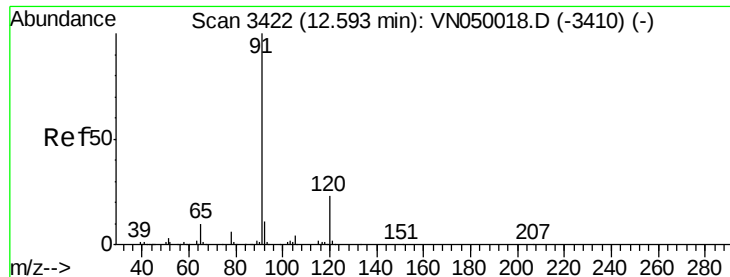
77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

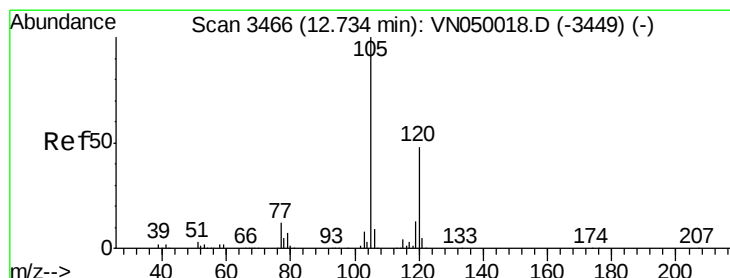
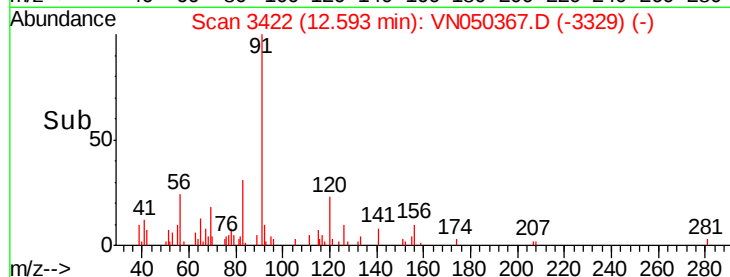
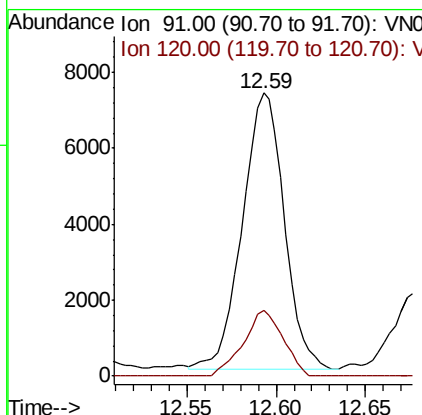
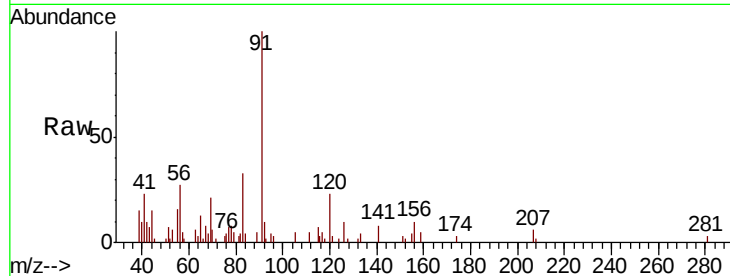




#78
n-propylbenzene
Concen: 0.33 ug/l
RT: 12.59 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN050367.D
Acq: 4 Aug 2018 15:21

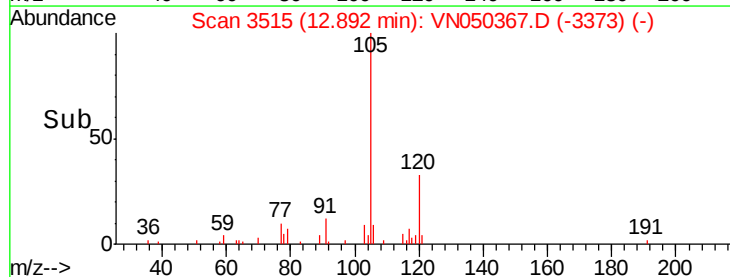
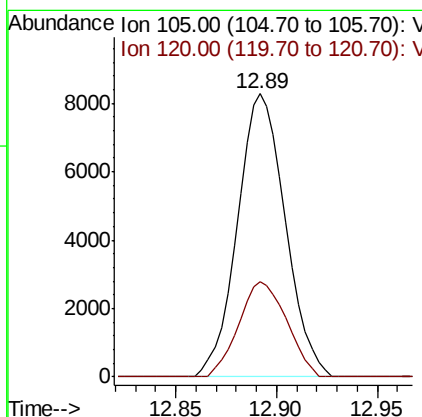
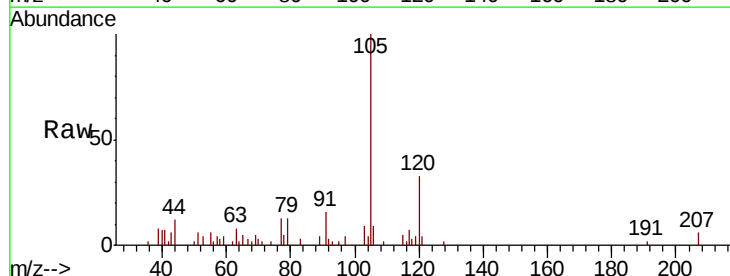
Instrument :
MSVOA_N
ClientSampleId :
MW-15

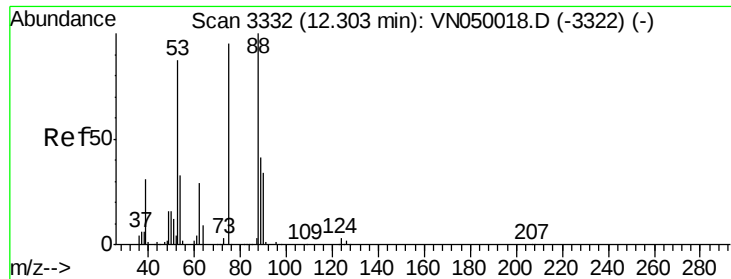
Tot Ion: 91 Resp: 11975
Ion Ratio Lower Upper
91 100
120 22.5 11.6 34.7



#80
1,3,5-Trimethylbenzene
Concen: 0.54 ug/l
RT: 12.89 min Scan# 3515
Delta R.T. 0.16 min
Lab File: VN050367.D
Acq: 4 Aug 2018 15:21

Tgt Ion: 105 Resp: 13734
Ion Ratio Lower Upper
105 100
120 33.7 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 91.47 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampled :

MW-15

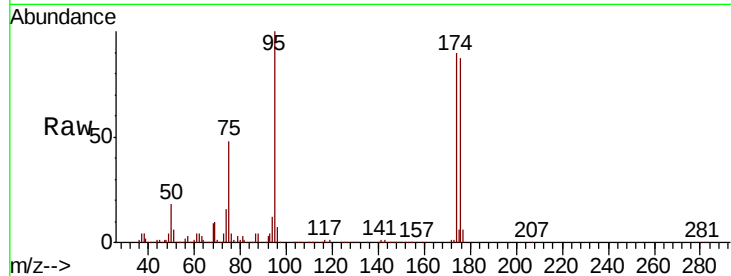
Tot Ion: 75 Resp: 224400

Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

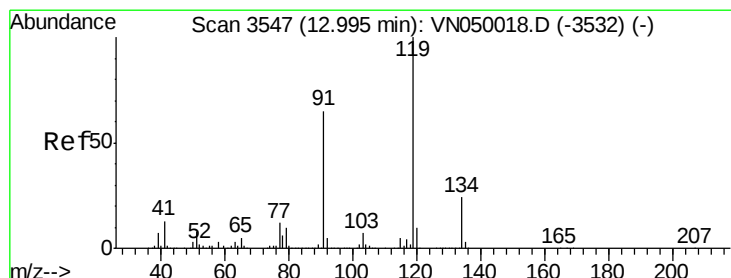
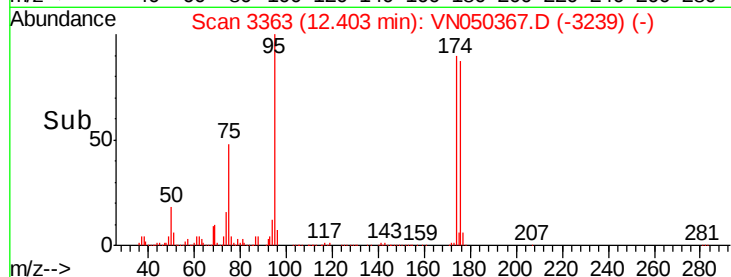
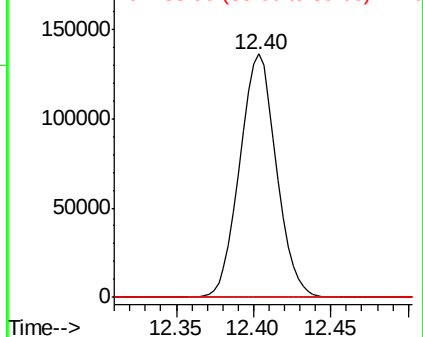
89 0.0 36.0 54.0#



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



#83

tert-Butylbenzene

Concen: 0.24 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

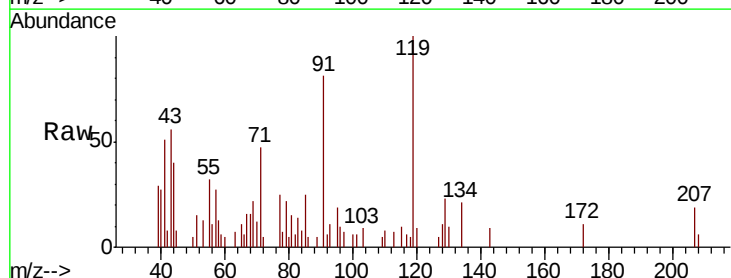
Tgt Ion: 119 Resp: 5283

Ion Ratio Lower Upper

119 100

91 70.4 32.1 96.3

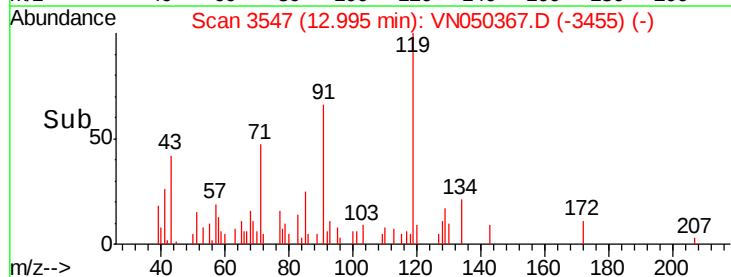
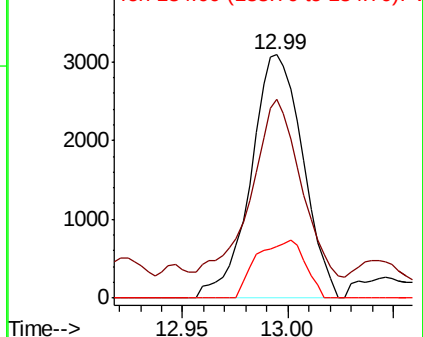
134 22.1 13.2 39.5

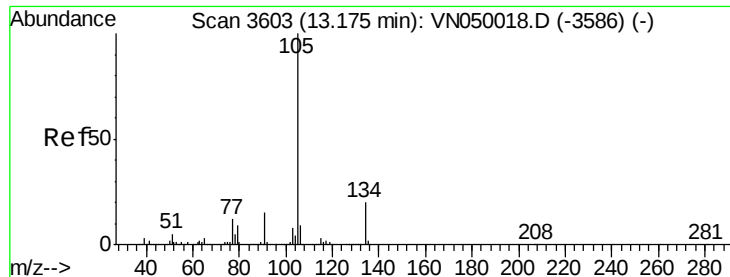


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V





#85

sec-Butylbenzene

Concen: 0.70 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampled :

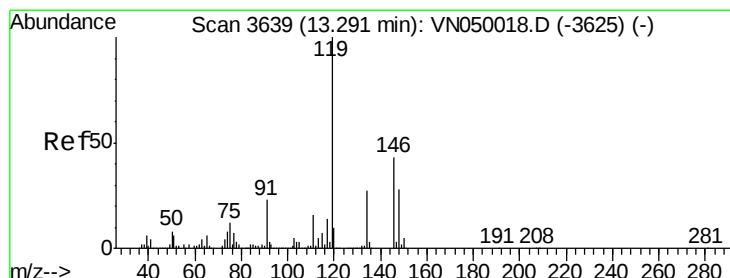
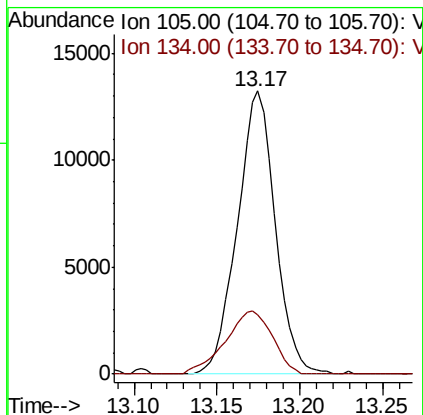
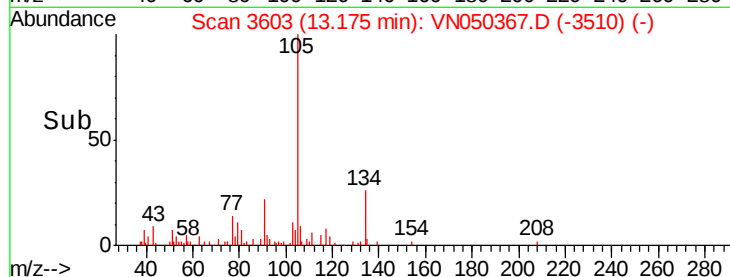
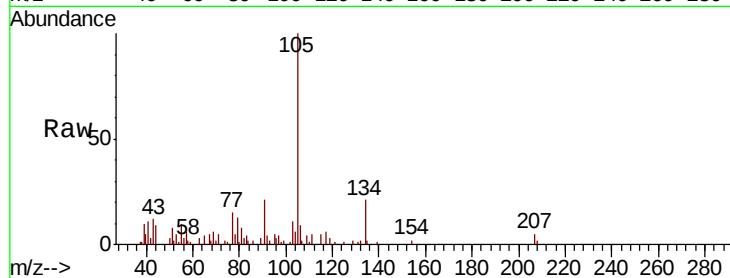
MW-15

Tot Ion:105 Resp: 20980

Ion Ratio Lower Upper

105 100

134 27.7 10.1 30.1



#86

p-Isopropyltoluene

Concen: 0.97 ug/l

RT: 13.44 min Scan# 3687

Delta R.T. 0.15 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

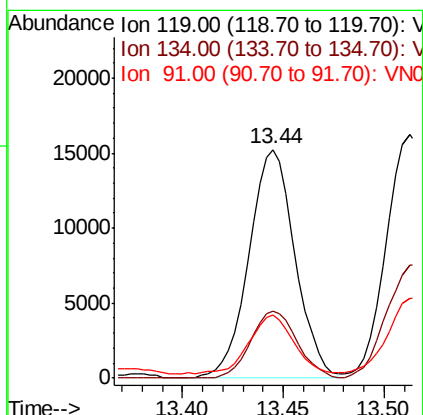
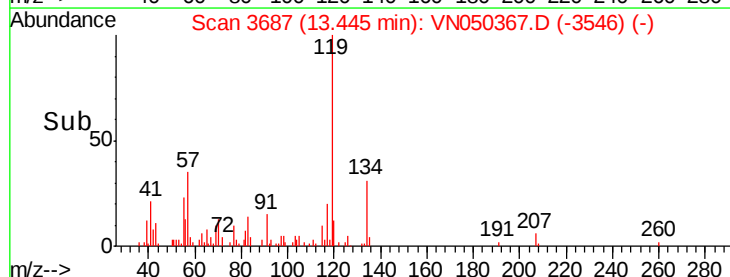
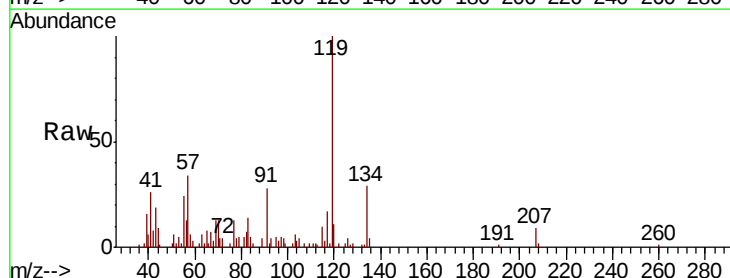
Tgt Ion:119 Resp: 24300

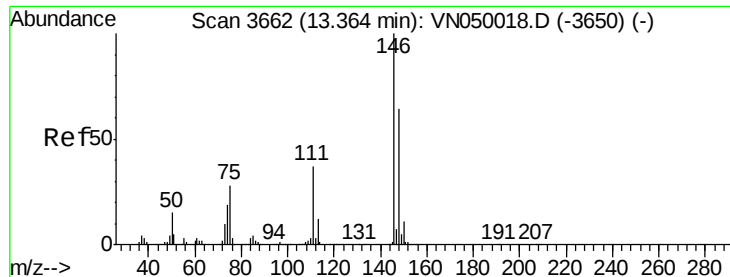
Ion Ratio Lower Upper

119 100

134 29.4 13.3 39.8

91 25.2 11.4 34.2

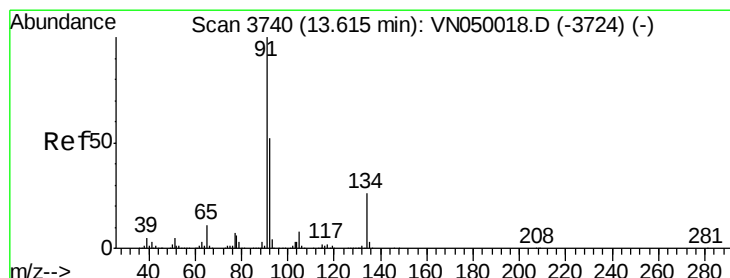
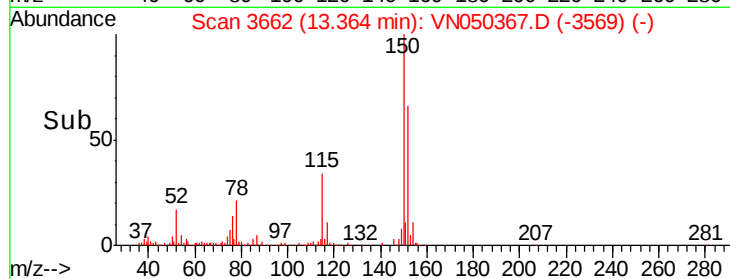
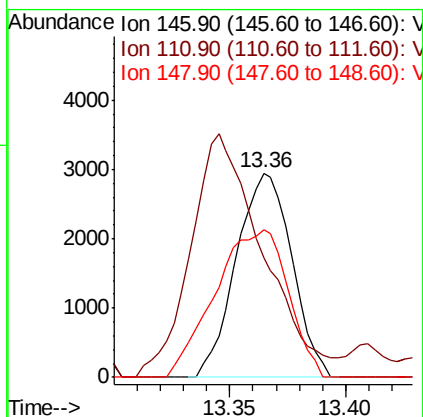
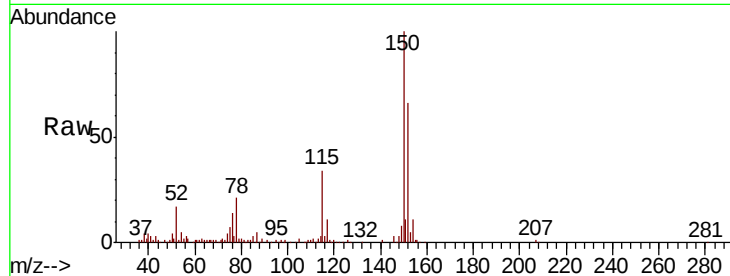




#88
 1,4-Dichlorobenzene
 Concen: 0.33 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050367.D
 Acq: 4 Aug 2018 15:21

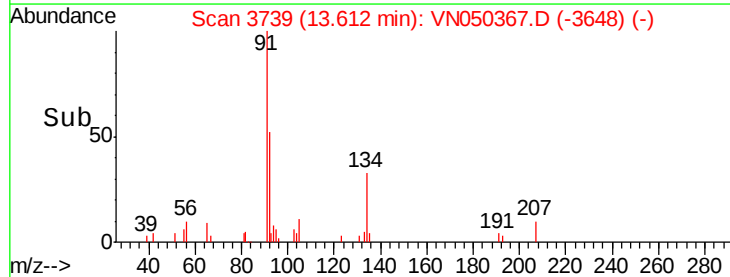
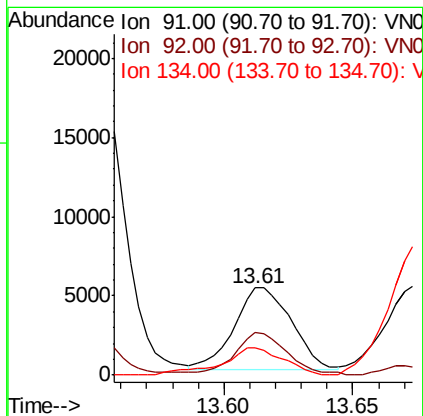
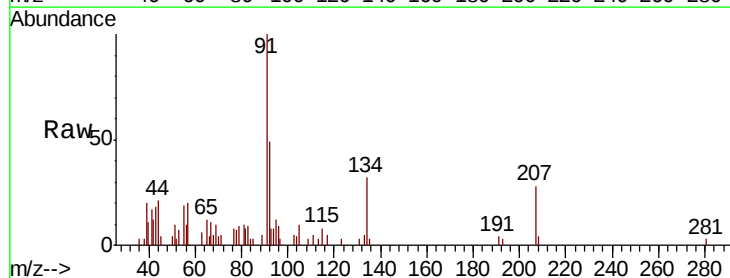
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-15

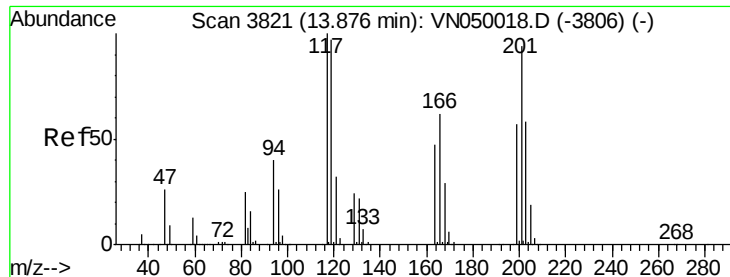
Tot Ion:146 Resp: 4907
 Ion Ratio Lower Upper
 146 100
 111 155.1 18.3 54.9#
 148 94.7 31.9 95.9



#89
 n-Butylbenzene
 Concen: 0.39 ug/l
 RT: 13.61 min Scan# 3739
 Delta R.T. -0.01 min
 Lab File: VN050367.D
 Acq: 4 Aug 2018 15:21

Tgt Ion: 91 Resp: 8077
 Ion Ratio Lower Upper
 91 100
 92 47.5 25.8 77.4
 134 35.4 12.8 38.4





#90

Hexachloroethane

Concen: 2.09 ug/l

RT: 13.89 min Scan# 3826

Delta R.T. 0.02 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampled :

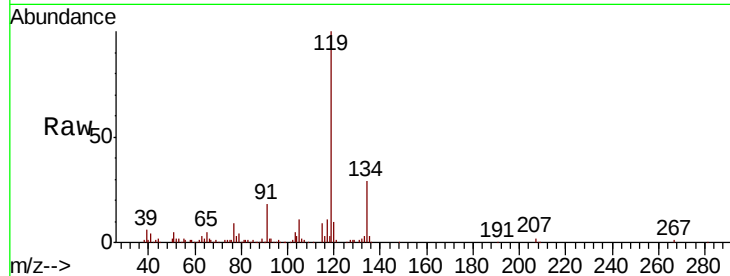
MW-15

Tot Ion:117 Resp: 11655

Ion Ratio Lower Upper

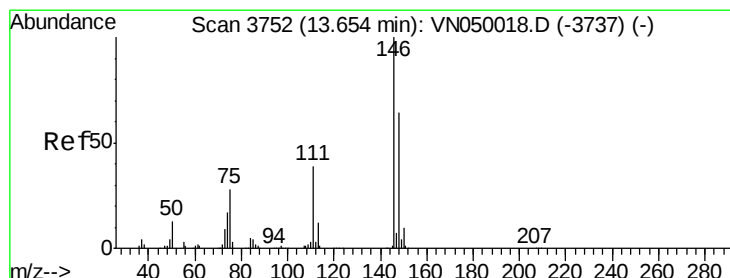
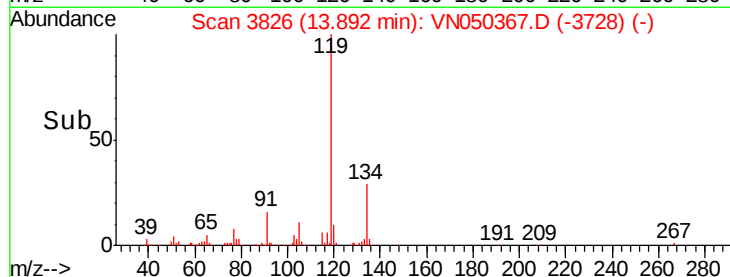
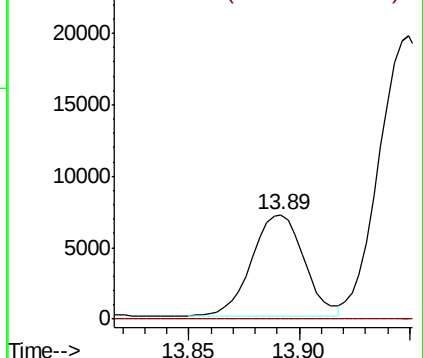
117 100

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



#91

1,2-Dichlorobenzene

Concen: 0.60 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. 0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

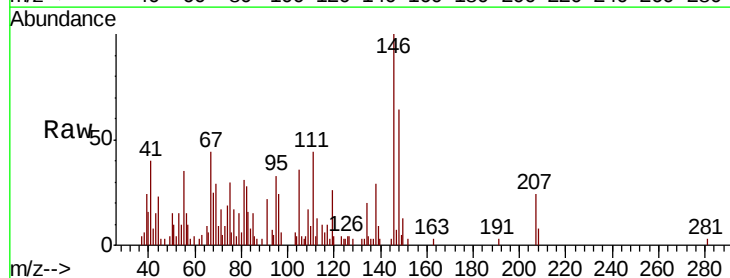
Tgt Ion:146 Resp: 9162

Ion Ratio Lower Upper

146 100

111 54.9 19.6 58.7

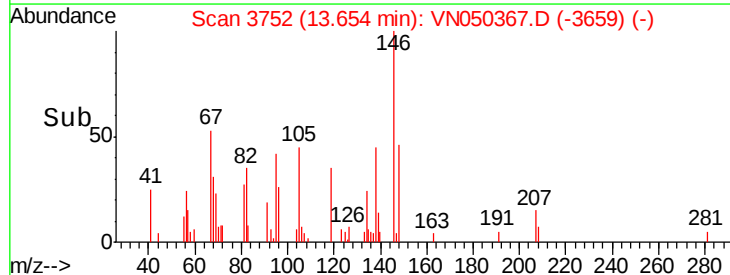
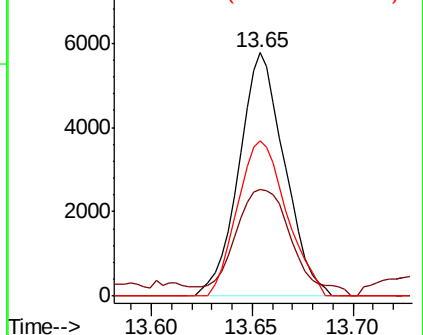
148 68.6 32.1 96.3

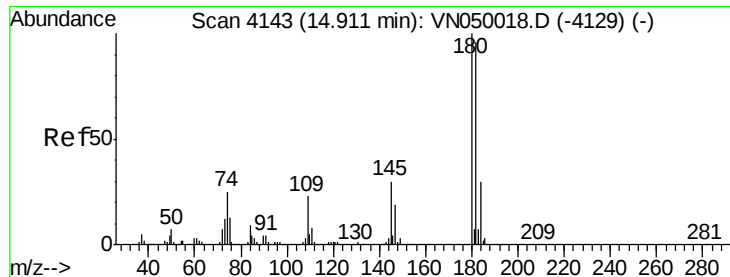


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#93

1,2,4-Trichlorobenzene

Concen: 3.10 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. 0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampled :

MW-15

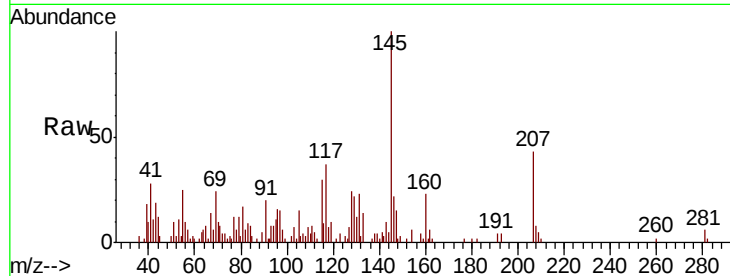
Tot Ion:180 Resp: 107

Ion Ratio Lower Upper

180 100

182 233.6 46.7 140.1#

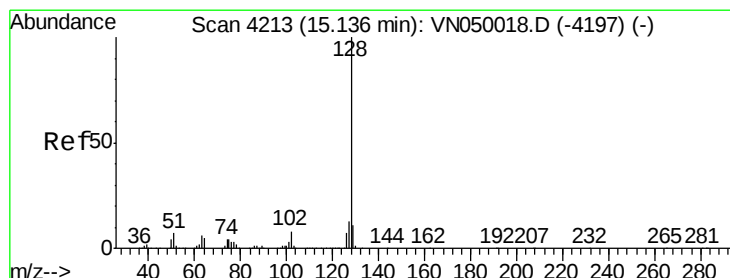
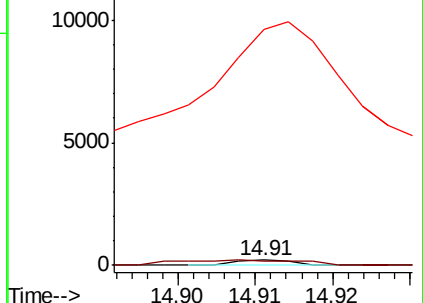
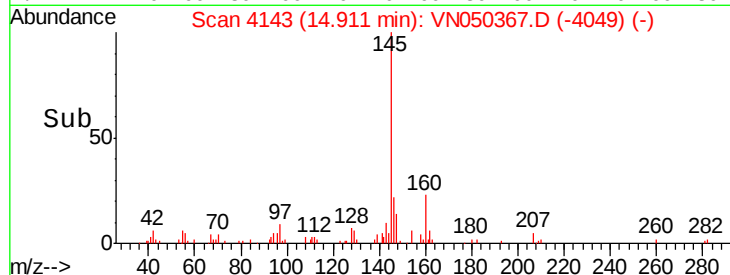
145 19463.6 13.8 41.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 4.50 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

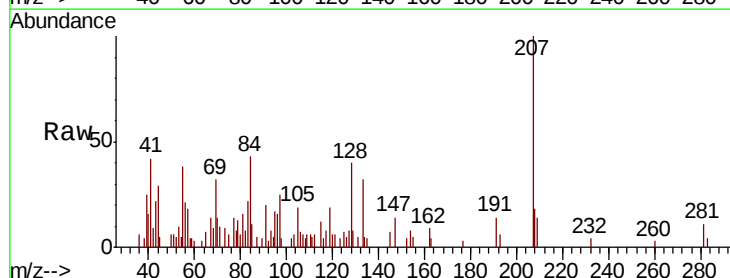
Tgt Ion:128 Resp: 1733

Ion Ratio Lower Upper

128 100

127 21.5 10.4 15.6#

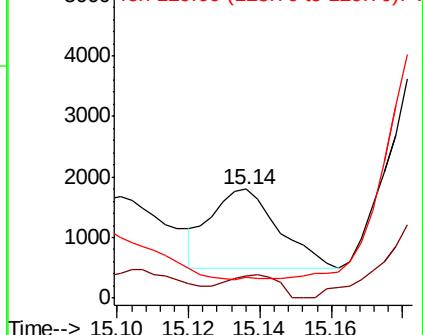
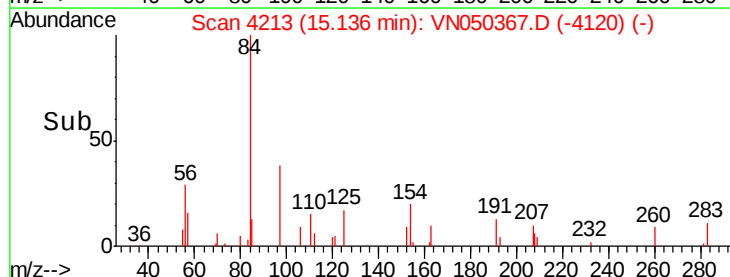
129 0.0 8.8 13.2#

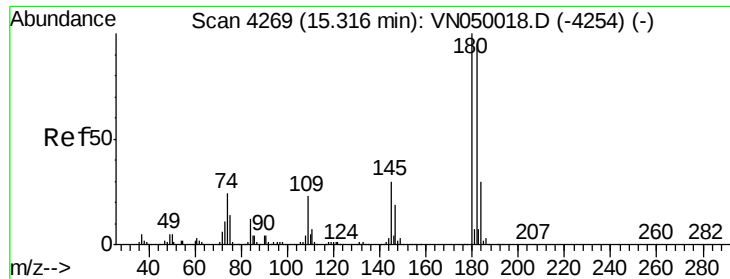


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 2.22 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. -0.01 min

Lab File: VN050367.D

Acq: 4 Aug 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

MW-15

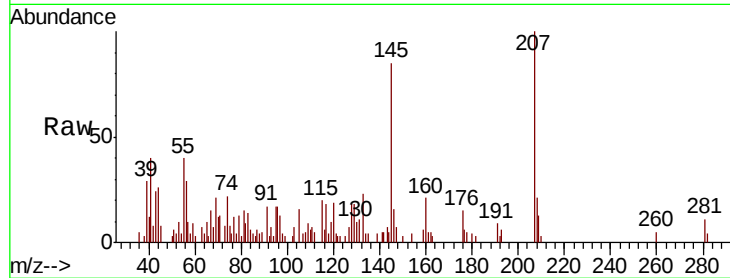
Tot Ion:180 Resp: 105

Ion Ratio Lower Upper

180 100

182 145.7 48.1 144.4#

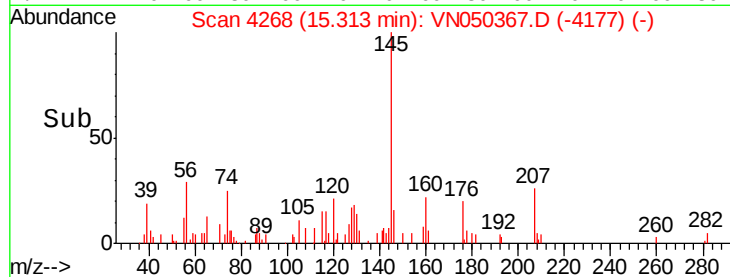
145 0.0 15.3 45.9#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V



Time-->