

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080818\
 Data File : VN050474.D
 Acq On : 8 Aug 2018 21:26
 Operator : MD\SY
 Sample : J4275-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-080718-D

Quant Time: Aug 09 01:00:25 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	776540	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1228677	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1061907	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	458846	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	504917	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
35) Dibromofluoromethane	7.60	113	458685	46.53	ug/l	0.00
Spiked Amount			Recovery	=	93.06%	
50) Toluene-d8	10.09	98	1663803	44.89	ug/l	0.00
Spiked Amount			Recovery	=	89.78%	
62) 4-Bromofluorobenzene	12.40	95	507064	40.14	ug/l	0.00
Spiked Amount			Recovery	=	80.28%	

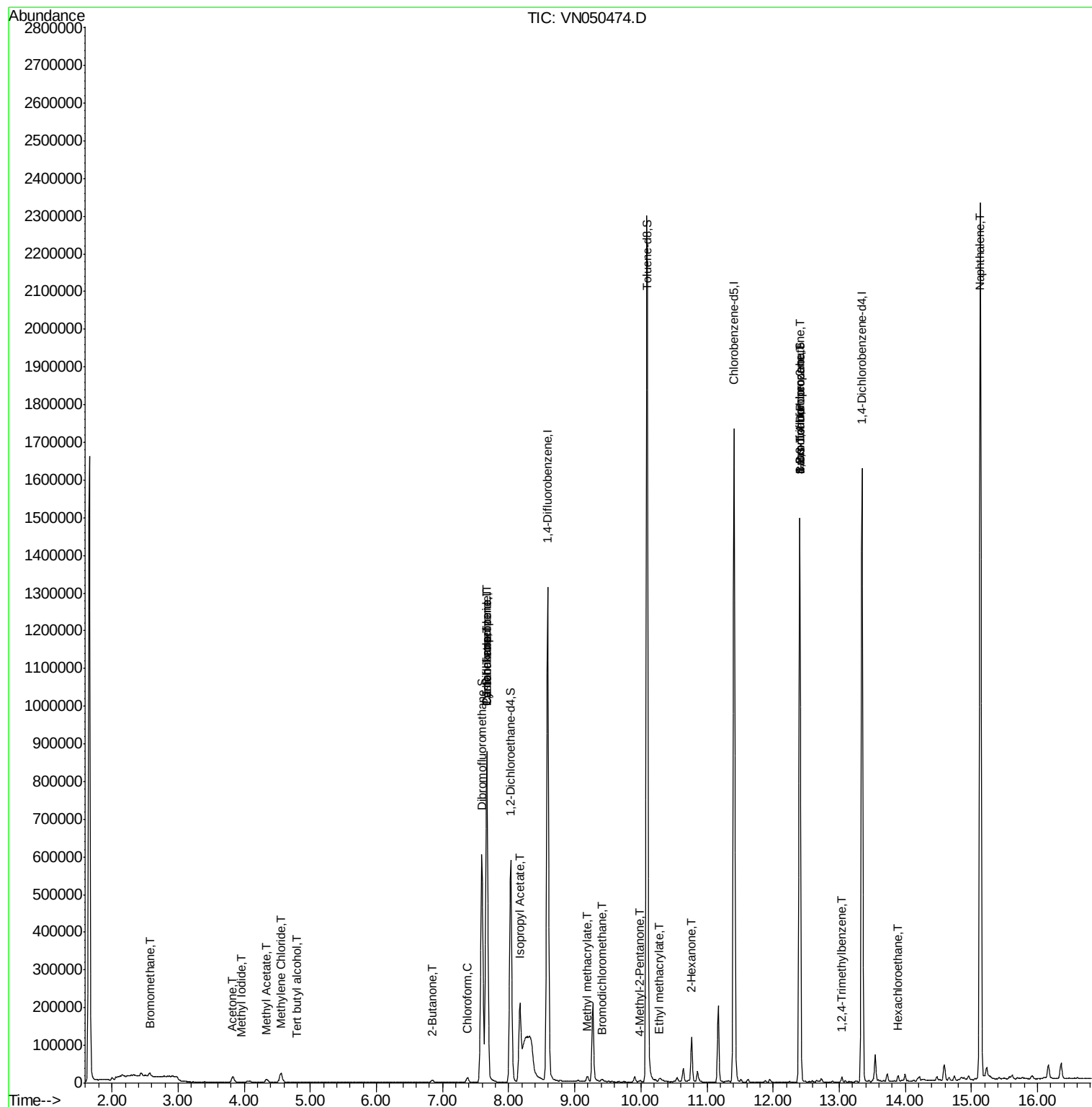
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3476	Below Cal		94
5) Bromomethane	2.57	94	6196	1.31	ug/l	97
10) Methyl Iodide	3.97	142	1792	0.46	ug/l #	67
11) Tert butyl alcohol	4.80	59	430	0.52	ug/l #	72
16) Acetone	3.82	43	27628	8.58	ug/l	92
18) Methyl Acetate	4.33	43	14657	1.64	ug/l	98
20) Methylene Chloride	4.56	84	18185	0.38	ug/l	95
25) 2-Butanone	6.84	43	2744	0.53	ug/l	92
30) Chloroform	7.37	83	14040	0.83	ug/l	98
31) Cyclohexane	7.67	56	13235	0.26	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	50861	3.77	ug/l #	49
38) Carbon Tetrachloride	7.67	117	69036	4.90	ug/l #	16
43) Isopropyl Acetate	8.17	43	274753	16.37	ug/l	97
47) Bromodichloromethane	9.40	83	3382	0.24	ug/l #	97
48) Methyl methacrylate	9.18	41	8954	1.06	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	2799	0.23	ug/l	99
56) Ethyl methacrylate	10.28	69	164	1.72	ug/l #	1
59) 2-Hexanone	10.77	43	16314	1.93	ug/l #	58
71) Bromoform	12.40	173	3842	0.54	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	241809	29.11	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	241809	102.29	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	7820	0.28	ug/l	98
90) Hexachloroethane	13.89	117	1126	0.23	ug/l #	4
95) Naphthalene	15.13	128	2001463	87.18	ug/l	99

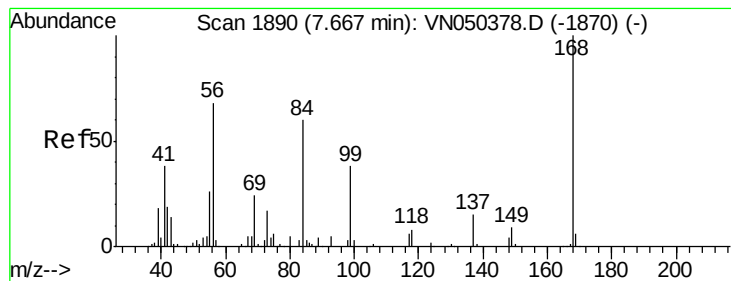
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050474.D

Acq: 8 Aug 2018 21:26

Instrument :

MSVOA_N

ClientSampleId :

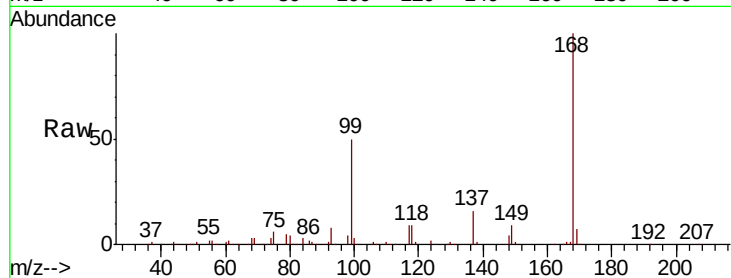
CL-02-080718-D

Tot Ion:168 Resp: 776540

Ion Ratio Lower Upper

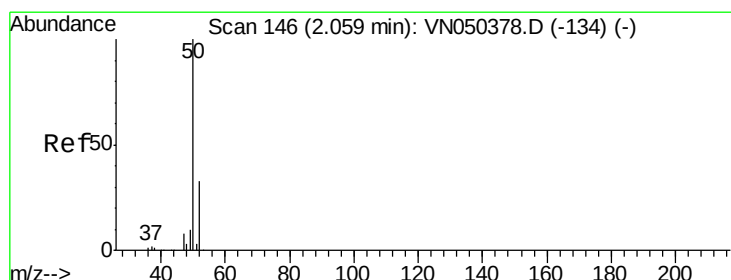
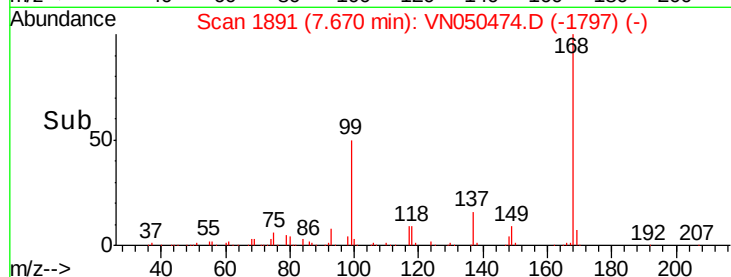
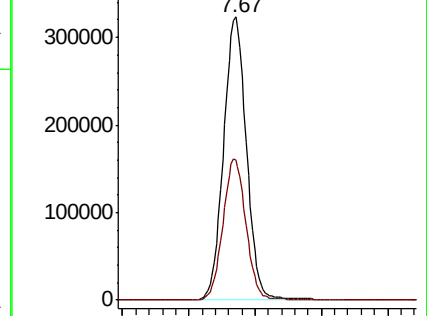
168 100

99 49.6 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050474.D

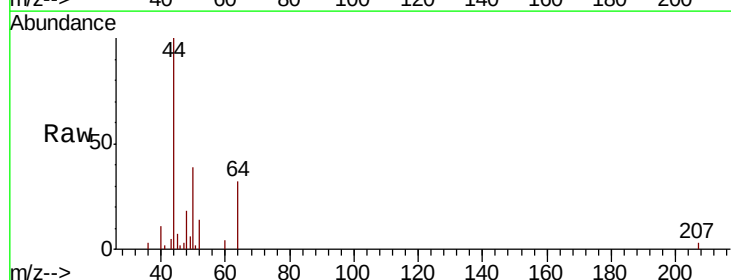
Acq: 8 Aug 2018 21:26

Tgt Ion: 50 Resp: 3476

Ion Ratio Lower Upper

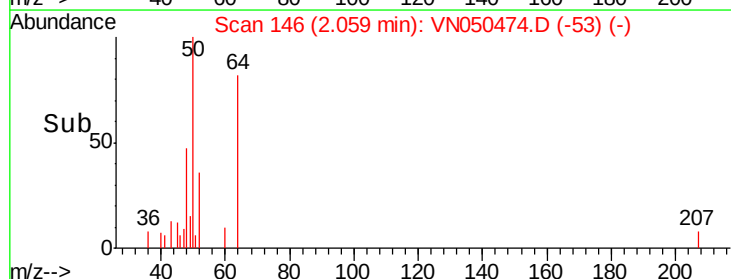
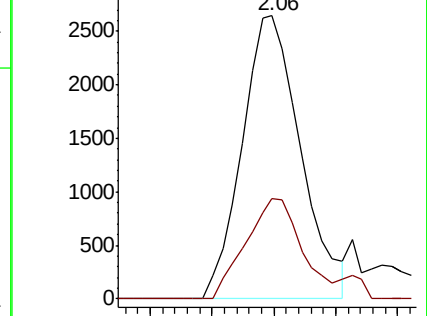
50 100

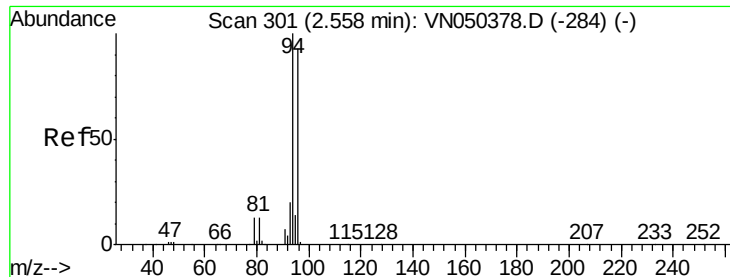
52 35.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#5

Bromomethane

Concen: 1.31 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050474.D

Acq: 8 Aug 2018 21:26

Instrument :

MSVOA_N

ClientSampleId :

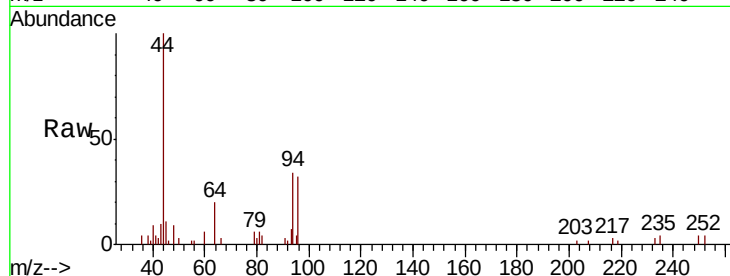
CL-02-080718-D

Tot Ion: 94 Resp: 6196

Ion Ratio Lower Upper

94 100

96 95.8 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

3000

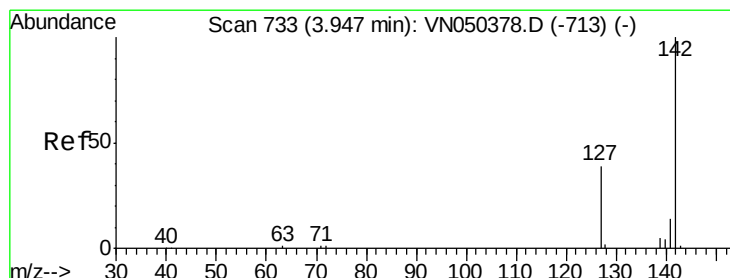
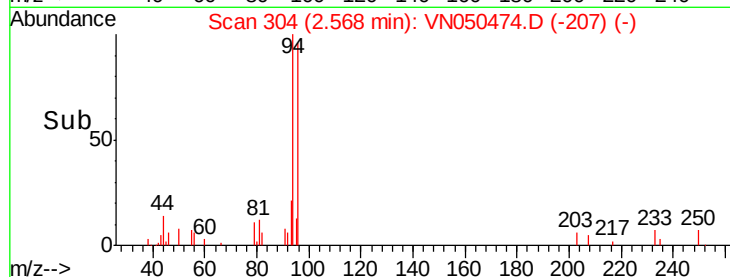
2000

1000

0

2.50 2.55 2.60 2.65

Time-->



#10

Methyl Iodide

Concen: 0.46 ug/l

RT: 3.97 min Scan# 739

Delta R.T. 0.02 min

Lab File: VN050474.D

Acq: 8 Aug 2018 21:26

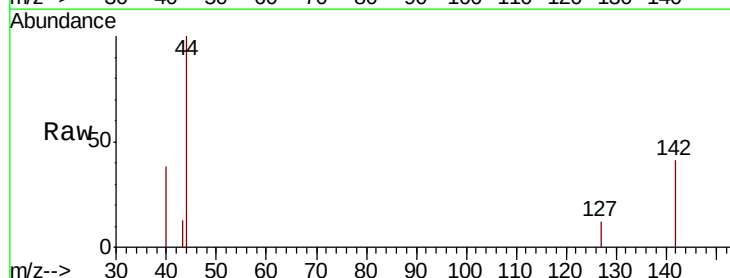
Tgt Ion: 142 Resp: 1792

Ion Ratio Lower Upper

142 100

127 21.1 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) (-)

3.97

800

600

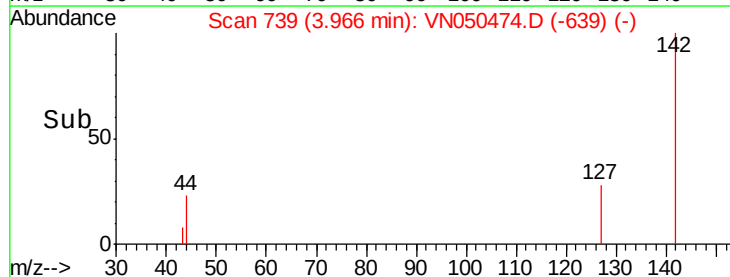
400

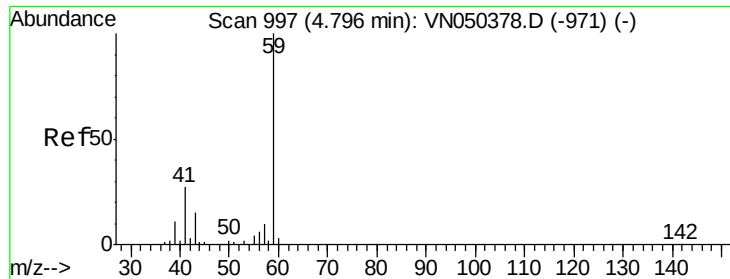
200

0

3.90 3.95 4.00

Time-->



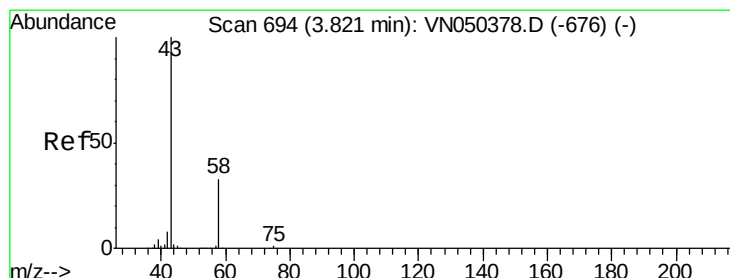
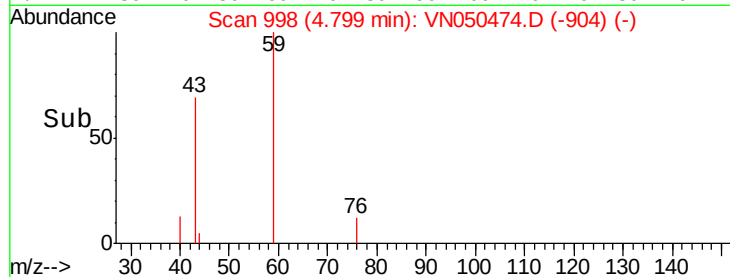
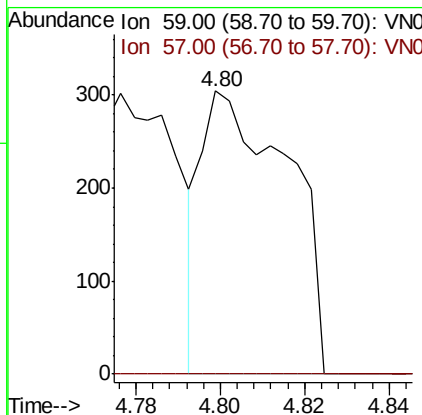
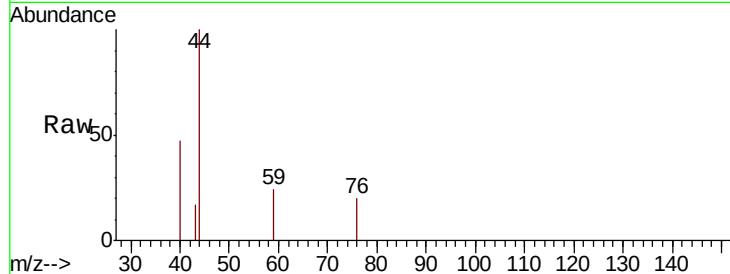


#11

Tert butyl alcohol
 Concen: 0.52 ug/l
 RT: 4.80 min Scan# 998
 Delta R.T. 0.00 min
 Lab File: VN050474.D
 Acq: 8 Aug 2018 21:26

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-080718-D

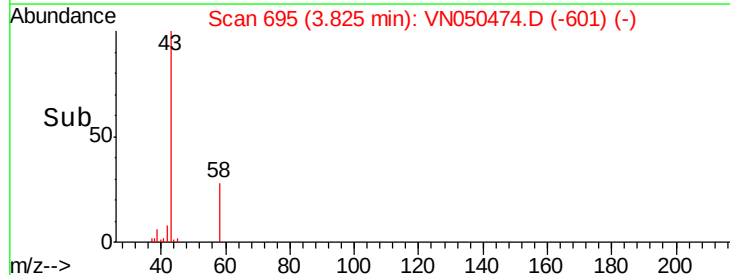
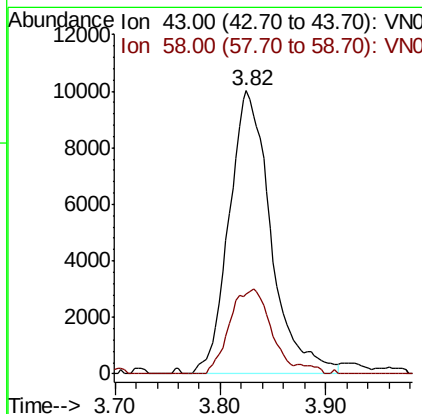
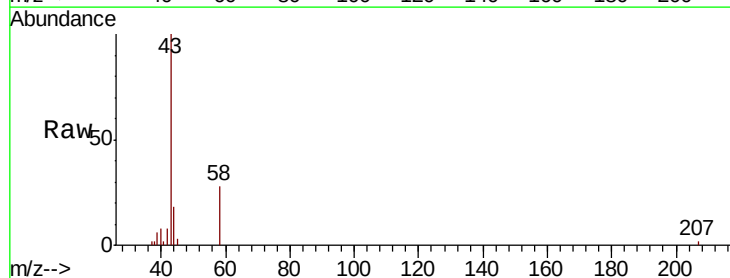
Tot Ion: 59 Resp: 430
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

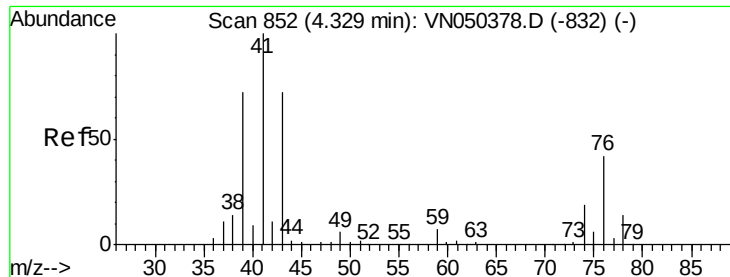


#16

Acetone
 Concen: 8.58 ug/l
 RT: 3.82 min Scan# 695
 Delta R.T. 0.00 min
 Lab File: VN050474.D
 Acq: 8 Aug 2018 21:26

Tgt Ion: 43 Resp: 27628
 Ion Ratio Lower Upper
 43 100
 58 28.0 25.8 38.8

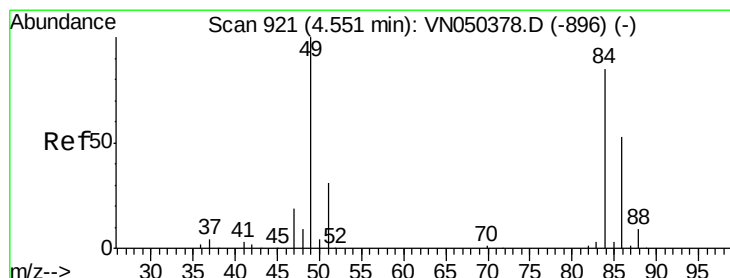
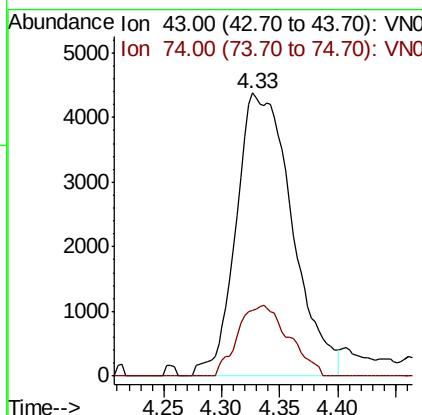
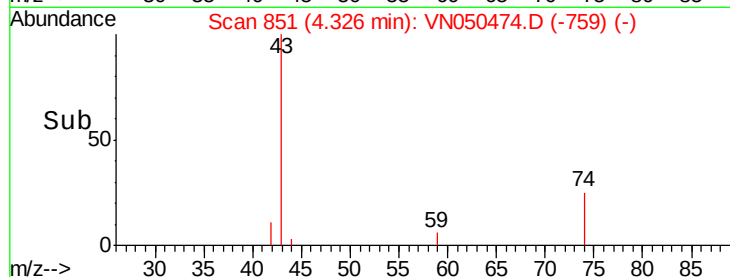
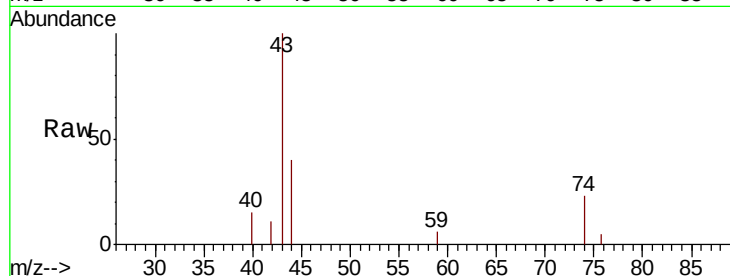




#18
Methyl Acetate
Concen: 1.64 ug/l
RT: 4.33 min Scan# 851
Delta R.T. -0.00 min
Lab File: VN050474.D
Acq: 8 Aug 2018 21:26

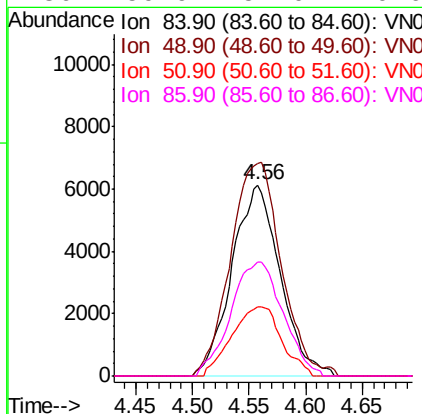
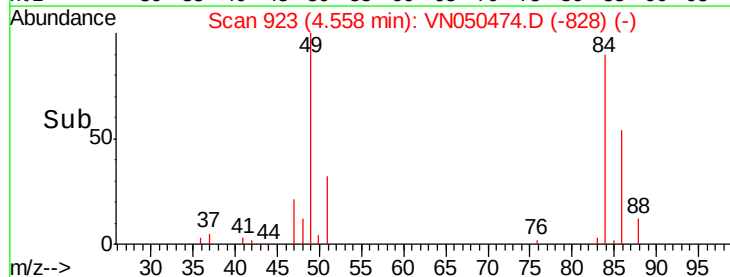
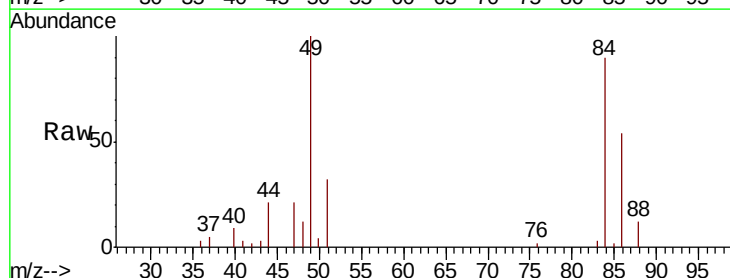
Instrument :
MSVOA_N
ClientSampleId :
CL-02-080718-D

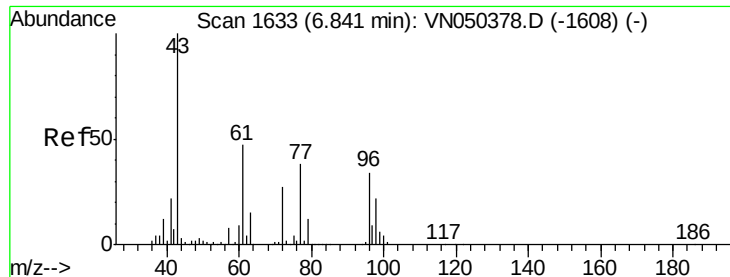
Tot Ion: 43 Resp: 14657
Ion Ratio Lower Upper
43 100
74 22.8 19.2 28.8



#20
Methylene Chloride
Concen: 0.38 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050474.D
Acq: 8 Aug 2018 21:26

Tgt Ion: 84 Resp: 18185
Ion Ratio Lower Upper
84 100
49 111.6 94.8 142.2
51 35.9 28.3 42.5
86 59.9 51.0 76.6





#25

2-Butanone

Concen: 0.53 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN050474.D

Acq: 8 Aug 2018 21:26

Instrument :

MSVOA_N

ClientSampleId :

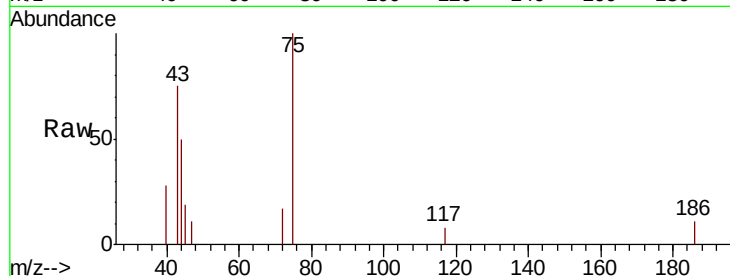
CL-02-080718-D

Tot Ion: 43 Resp: 2744

Ion Ratio Lower Upper

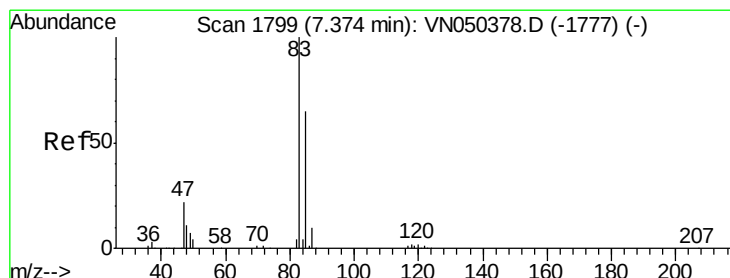
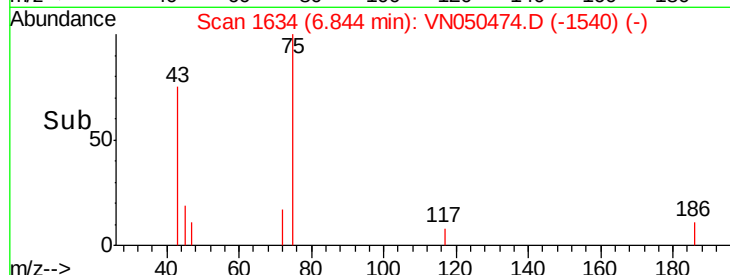
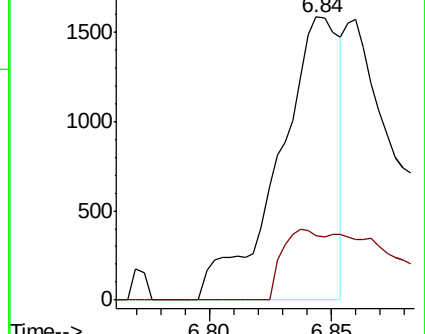
43 100

72 22.7 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#30

Chloroform

Concen: 0.83 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN050474.D

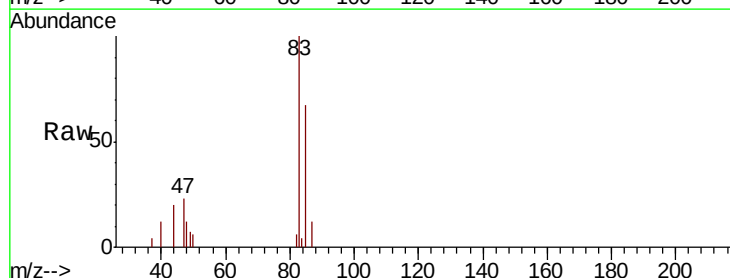
Acq: 8 Aug 2018 21:26

Tgt Ion: 83 Resp: 14040

Ion Ratio Lower Upper

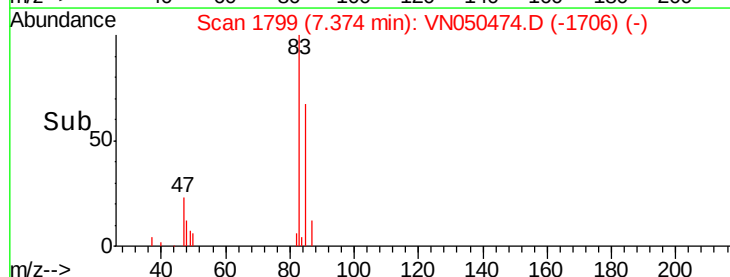
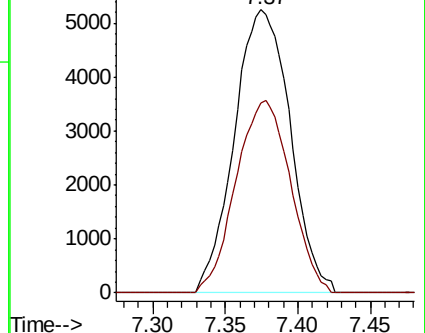
83 100

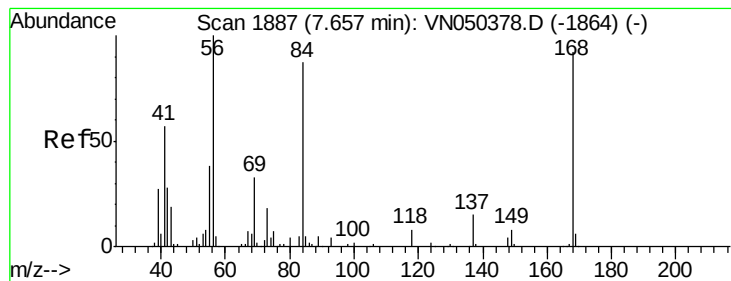
85 67.1 52.5 78.7



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 0.26 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050474.D

Acq: 8 Aug 2018 21:26

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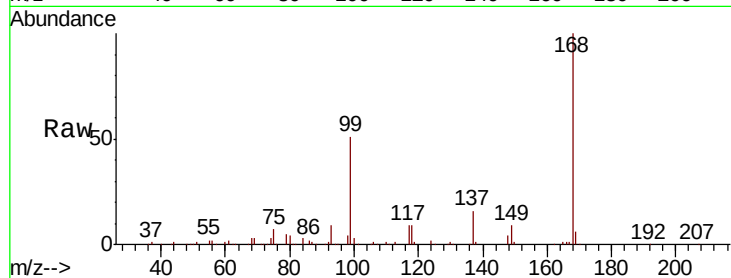
Tot Ion: 56 Resp: 13235

Ion Ratio Lower Upper

56 100

69 181.5 26.2 39.4#

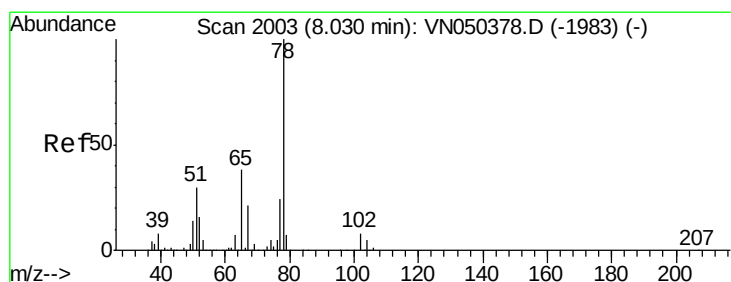
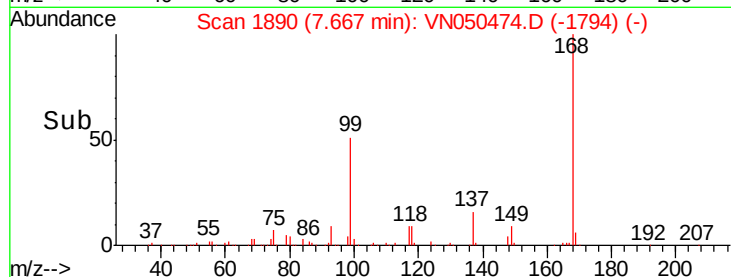
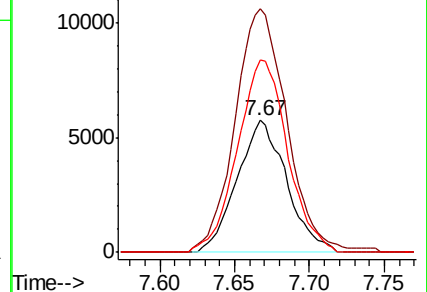
84 145.7 67.4 101.0#



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: 48.67 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050474.D

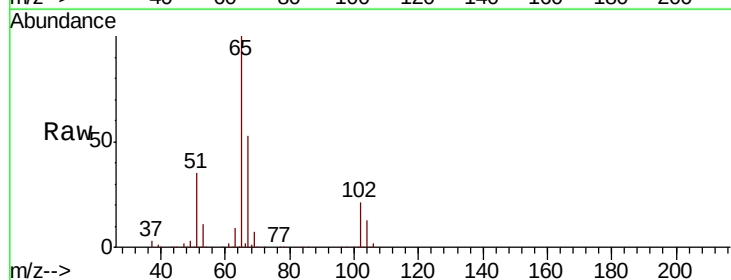
Acq: 8 Aug 2018 21:26

Tgt Ion: 65 Resp: 504917

Ion Ratio Lower Upper

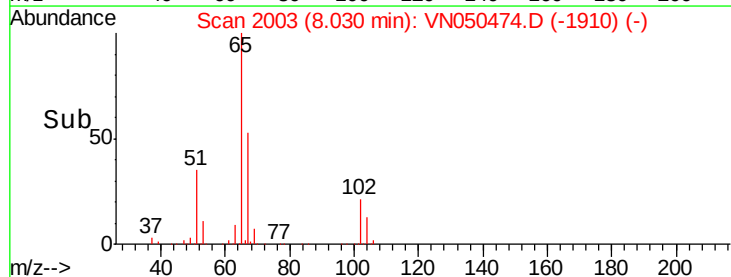
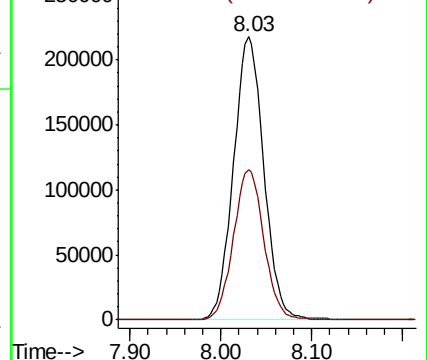
65 100

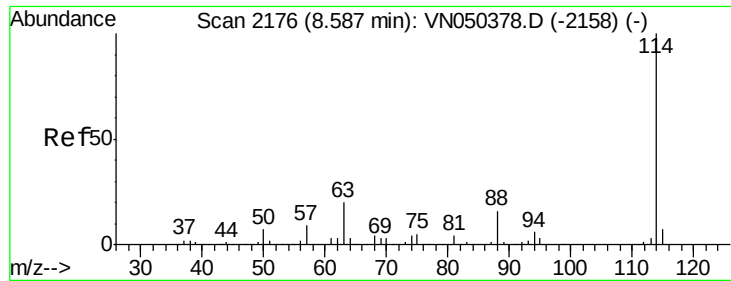
67 53.2 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

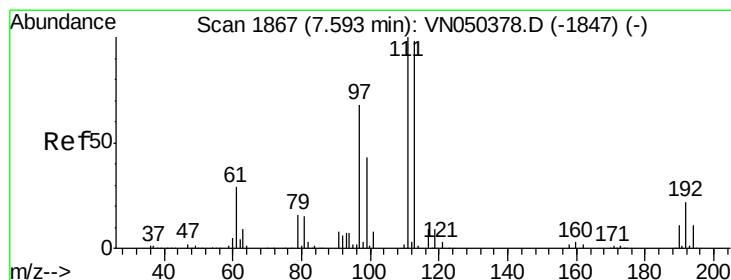
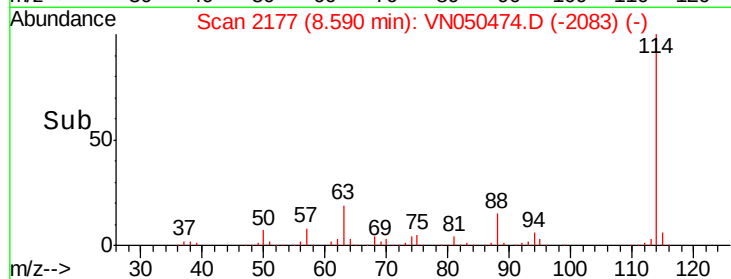
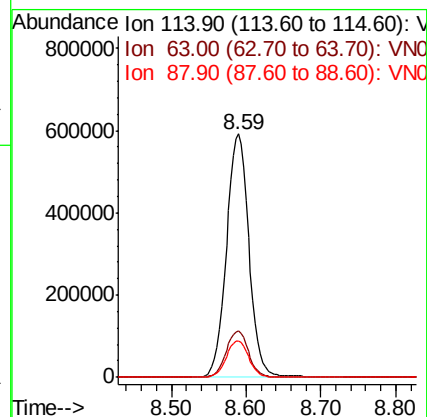
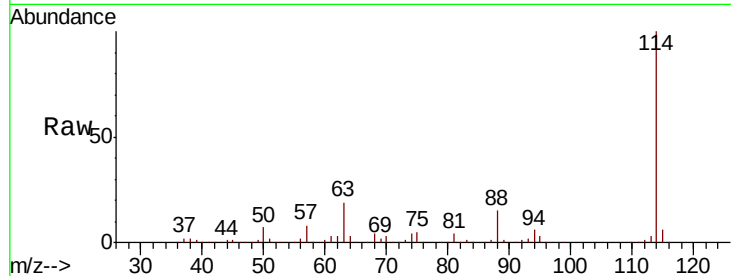




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050474.D
 Acq: 8 Aug 2018 21:26

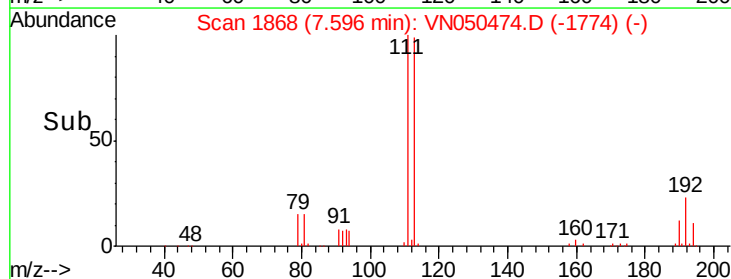
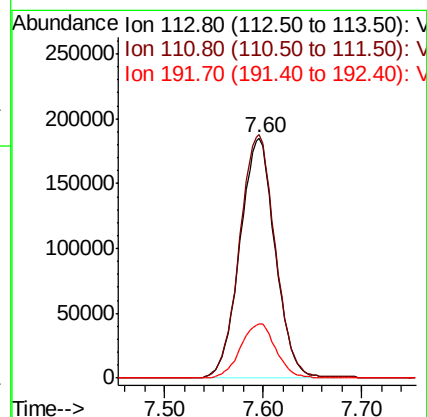
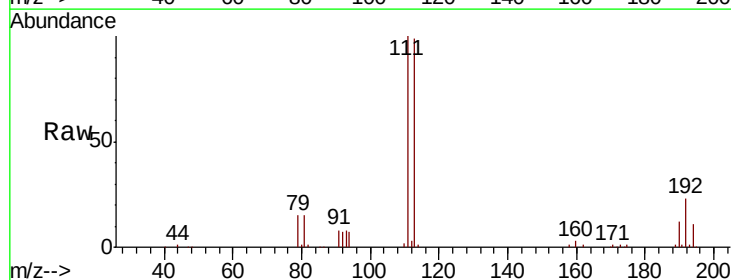
Instrument :
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 ClientSampleId :
 CL-02-080718-D

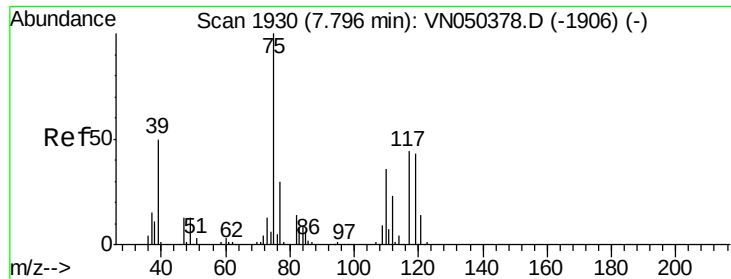
Tot Ion:114 Resp: 1228677
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 40.0
 88 15.1 0.0 31.2



#35
 Dibromofluoromethane
 Concen: 46.53 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN050474.D
 Acq: 8 Aug 2018 21:26

Tgt Ion:113 Resp: 458685
 Ion Ratio Lower Upper
 113 100
 111 103.0 80.7 121.1
 192 22.7 17.8 26.6





#36

1,1-Dichloropropene

Concen: 3.77 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050474.D

Acq: 8 Aug 2018 21:26

Instrument :

MSVOA_N

ClientSampleId :

CL-02-080718-D

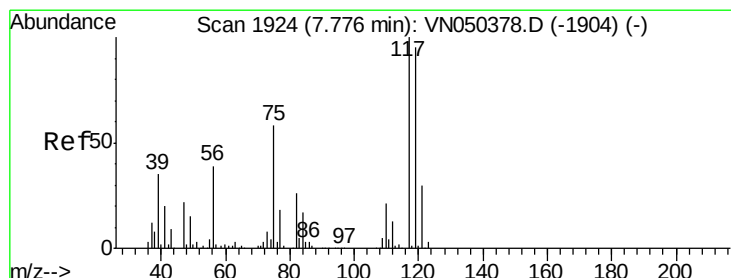
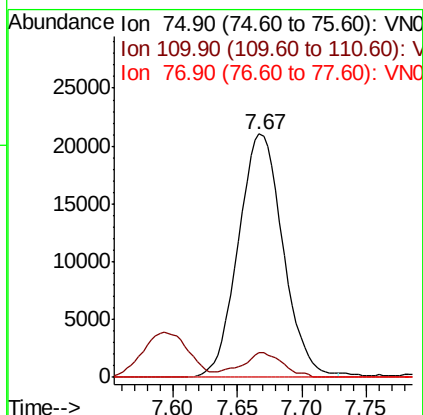
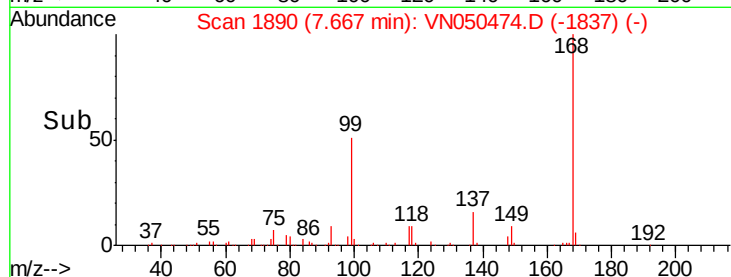
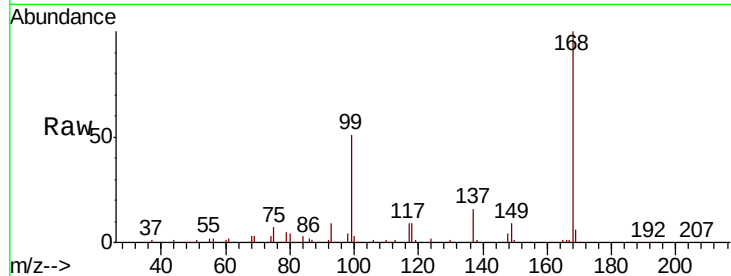
Tot Ion: 75 Resp: 50861

Ion Ratio Lower Upper

75 100

110 9.6 18.4 55.2#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 4.90 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN050474.D

Acq: 8 Aug 2018 21:26

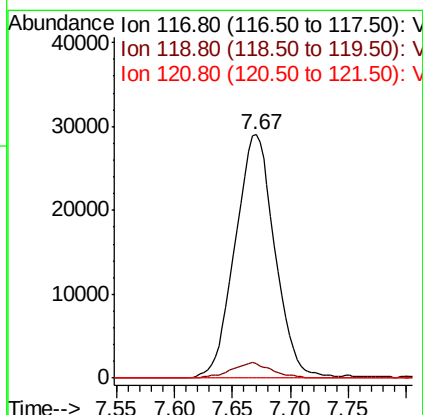
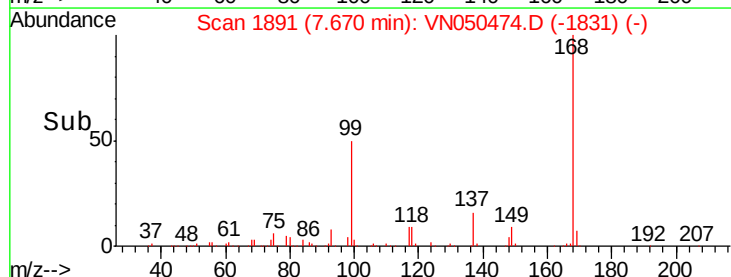
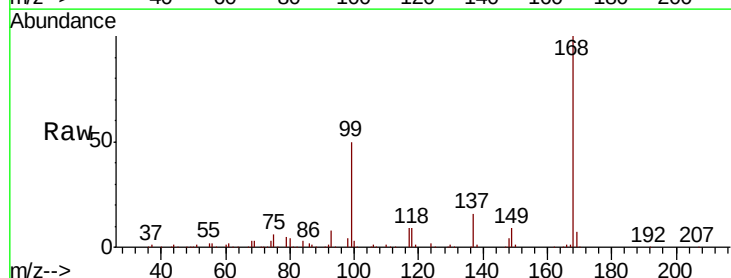
Tgt Ion: 117 Resp: 69036

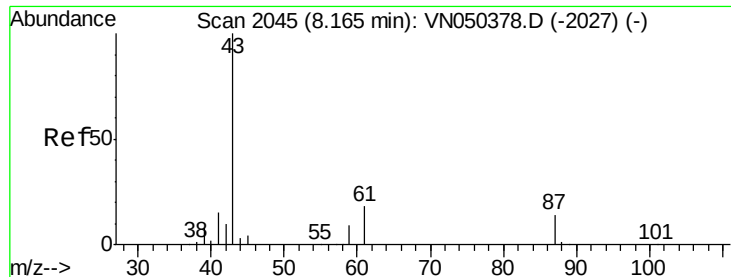
Ion Ratio Lower Upper

117 100

119 5.8 77.4 116.0#

121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 16.37 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050474.D

Acq: 8 Aug 2018 21:26

Instrument :

MSVOA_N

ClientSampleId :

CL-02-080718-D

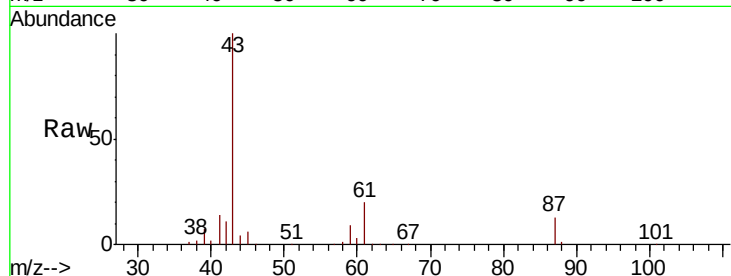
Tot Ion: 43 Resp: 274753

Ion Ratio Lower Upper

43 100

61 18.4 15.8 23.6

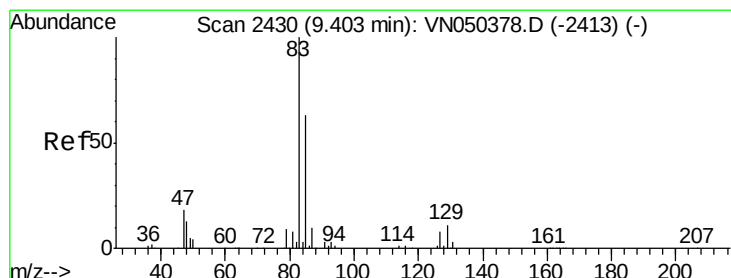
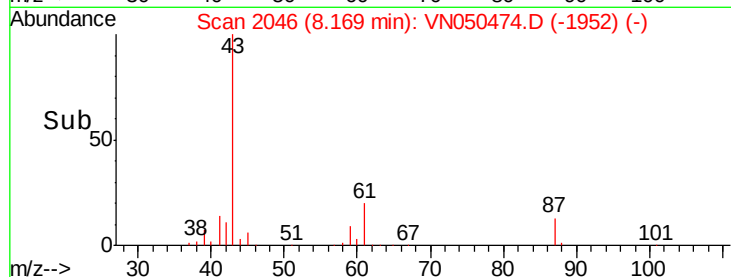
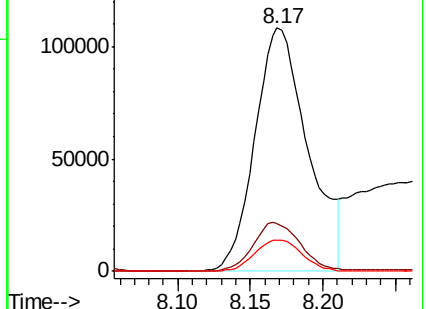
87 11.7 10.3 15.5



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



#47

Bromodichloromethane

Concen: 0.24 ug/l

RT: 9.40 min Scan# 2429

Delta R.T. -0.00 min

Lab File: VN050474.D

Acq: 8 Aug 2018 21:26

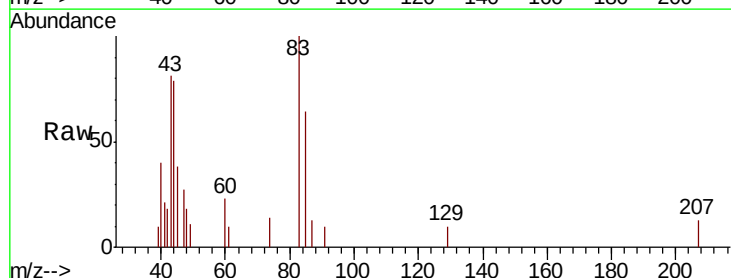
Tgt Ion: 83 Resp: 3382

Ion Ratio Lower Upper

83 100

85 63.8 51.1 76.7

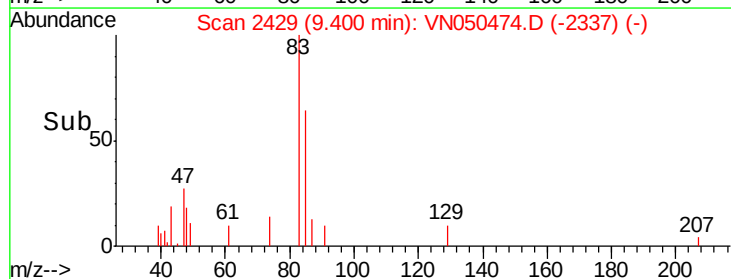
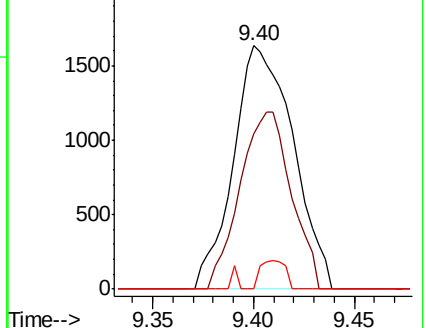
127 0.0 7.0 10.4#

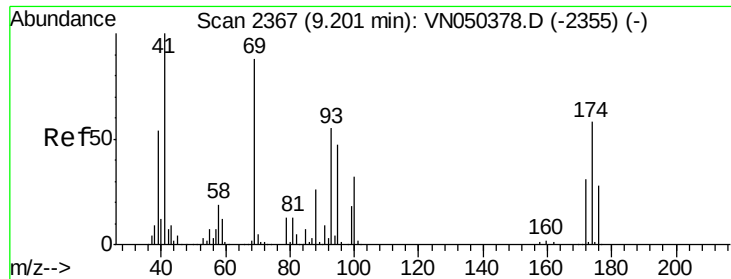


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): V

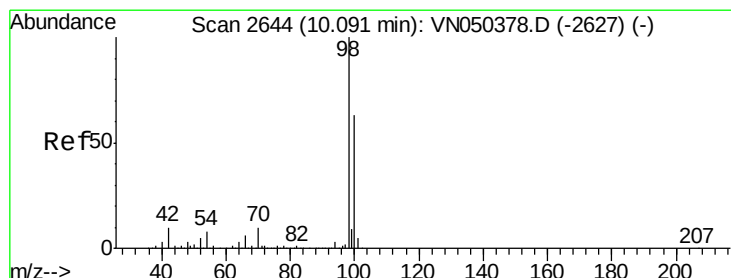
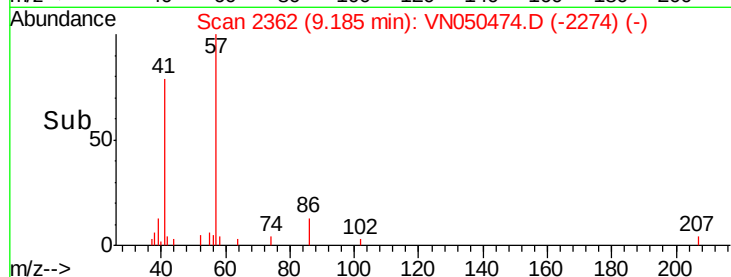
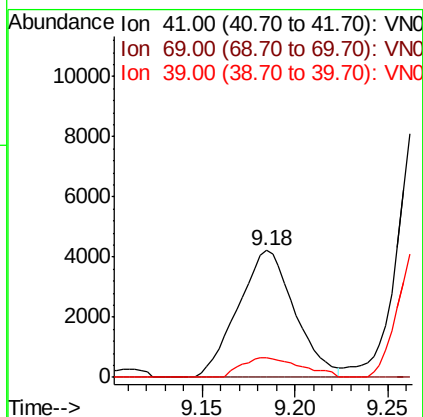
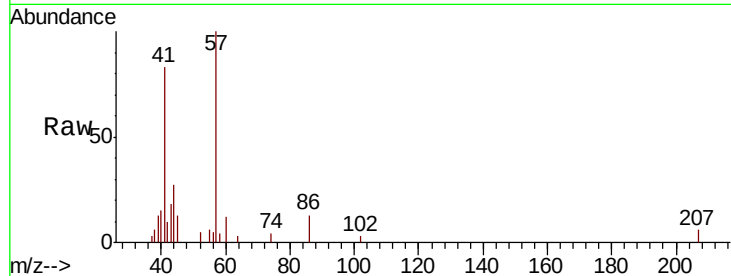




#48
Methvl methacrylate
Concen: 1.06 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050474.D
Acq: 8 Aug 2018 21:26

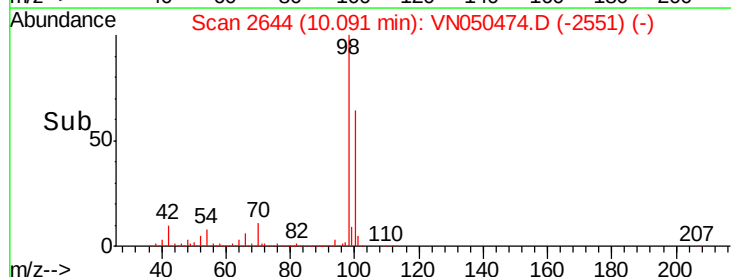
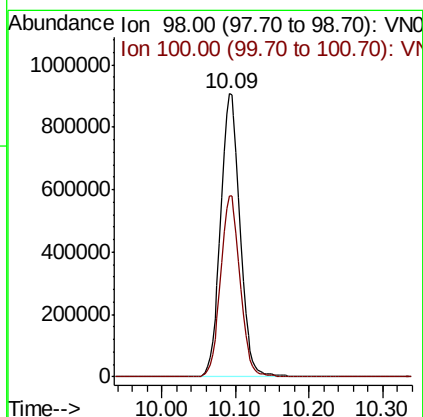
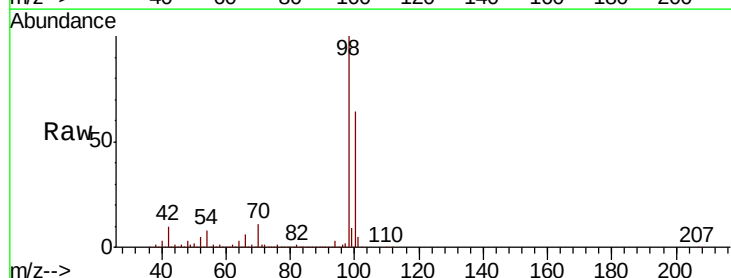
Instrument :
MSVOA_N
ClientSampleId :
CL-02-080718-D

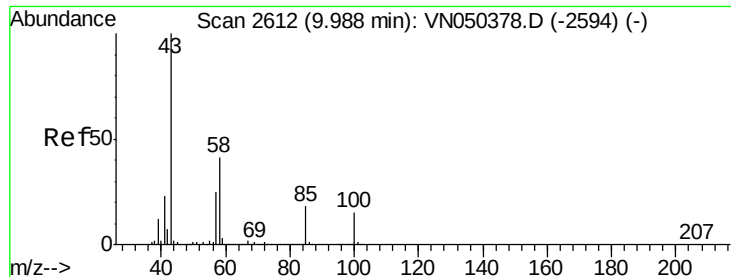
Tot Ion: 41 Resp: 8954
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 16.0 43.9 65.9#



#50
Toluene-d8
Concen: 44.89 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050474.D
Acq: 8 Aug 2018 21:26

Tgt Ion: 98 Resp: 1663803
Ion Ratio Lower Upper
98 100
100 64.0 50.7 76.1

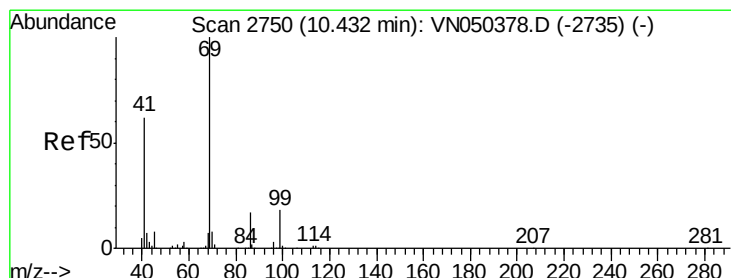
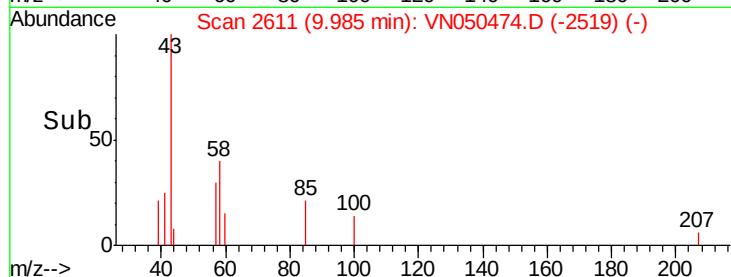
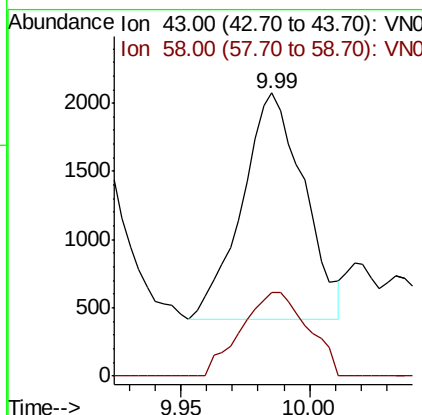
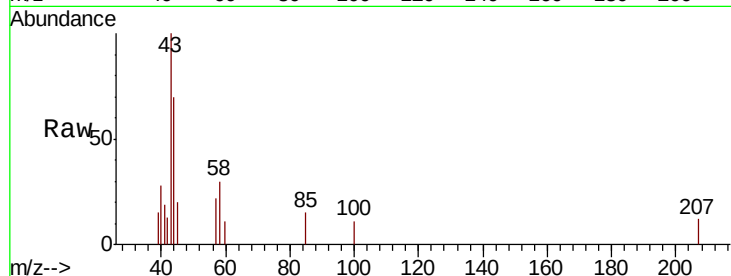




#51
4-Methyl-2-Pentanone
Concen: 0.23 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050474.D
Acq: 8 Aug 2018 21:26

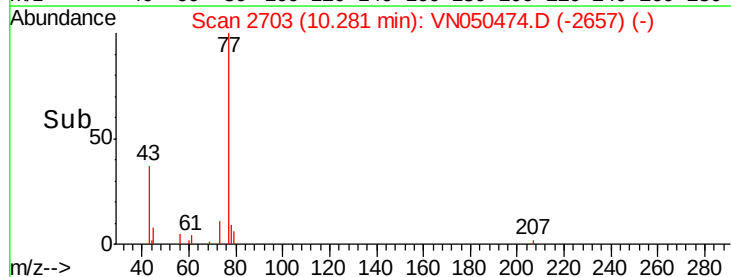
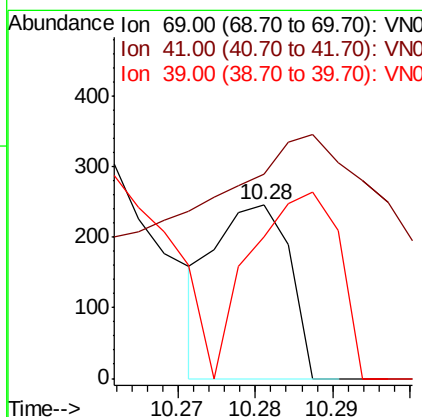
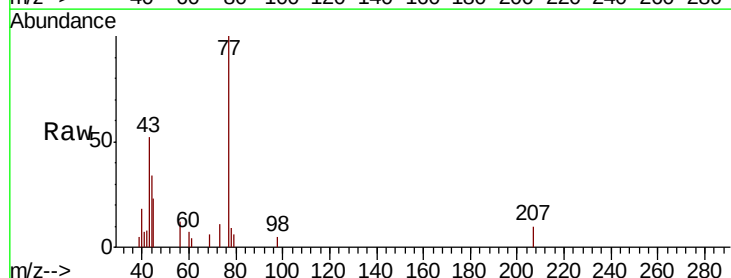
Instrument :
MSVOA_N
ClientSampleId :
CL-02-080718-D

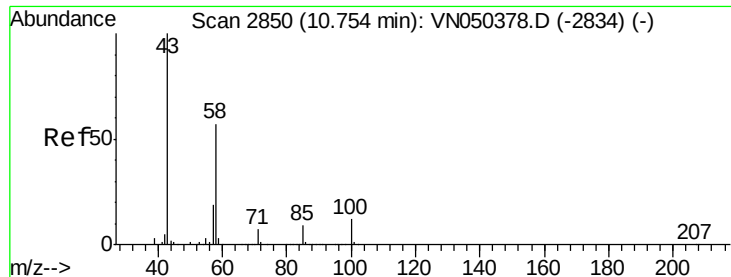
Tot Ion: 43 Resp: 2799
Ion Ratio Lower Upper
43 100
58 39.4 31.9 47.9



#56
Ethyl methacrylate
Concen: 1.72 ug/l
RT: 10.28 min Scan# 2703
Delta R.T. -0.15 min
Lab File: VN050474.D
Acq: 8 Aug 2018 21:26

Tgt Ion: 69 Resp: 164
Ion Ratio Lower Upper
69 100
41 271.3 51.0 76.4#
39 126.8 26.6 40.0#





#59

2-Hexanone

Concen: 1.93 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050474.D

Acq: 8 Aug 2018 21:26

Instrument :

MSVOA_N

ClientSampleId :

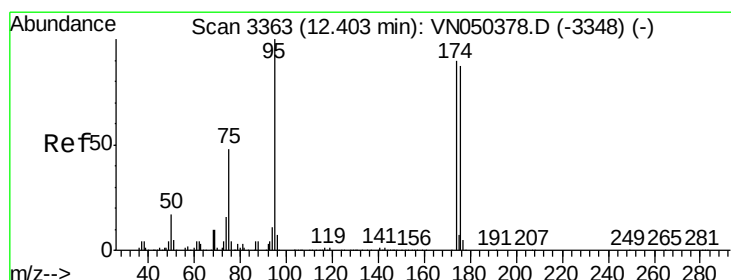
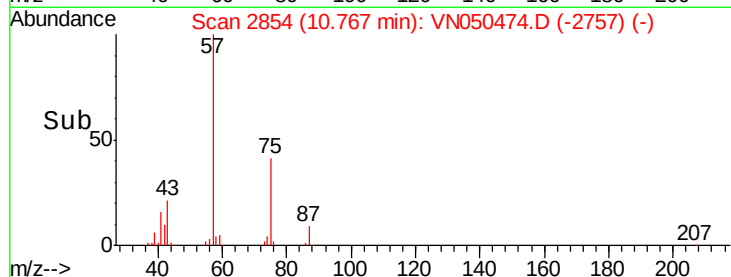
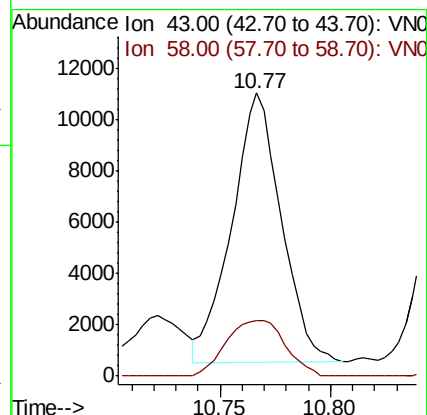
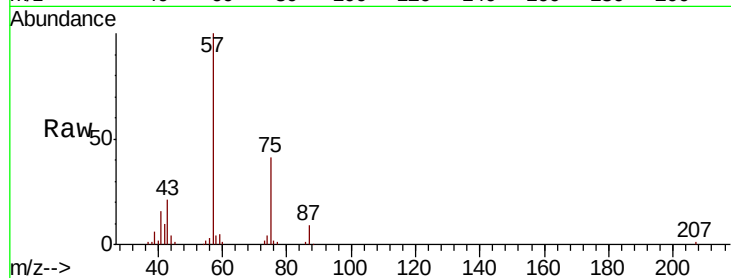
CL-02-080718-D

Tot Ion: 43 Resp: 16314

Ion Ratio Lower Upper

43 100

58 24.8 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 40.14 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050474.D

Acq: 8 Aug 2018 21:26

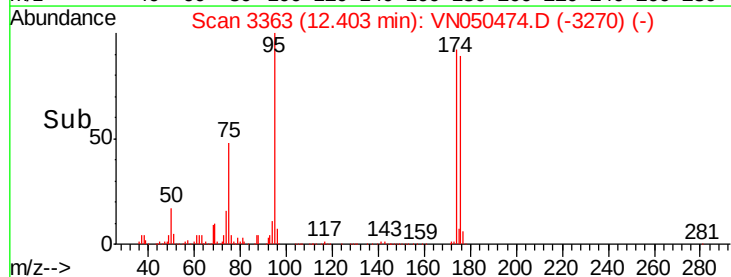
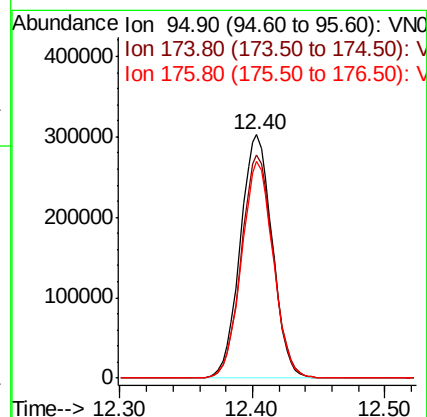
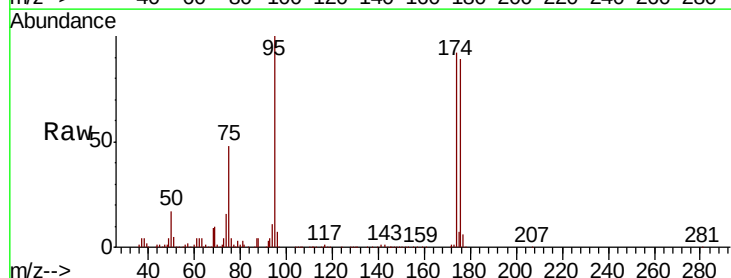
Tgt Ion: 95 Resp: 507064

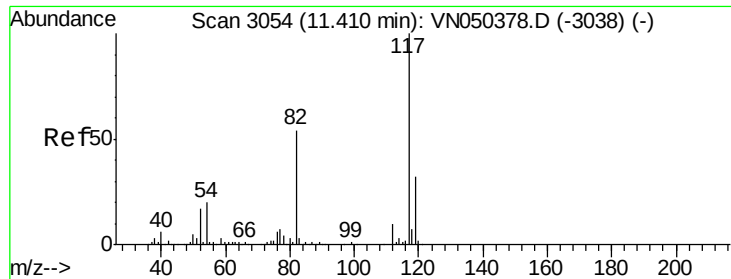
Ion Ratio Lower Upper

95 100

174 91.5 0.0 178.2

176 88.1 0.0 173.4

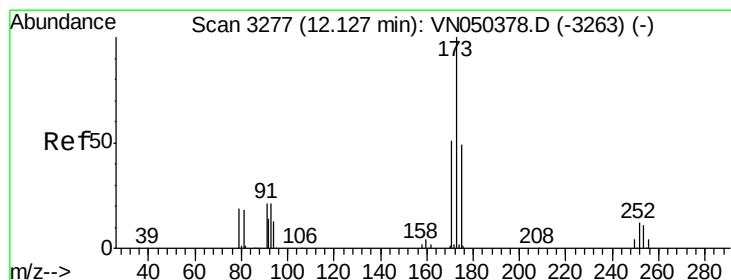
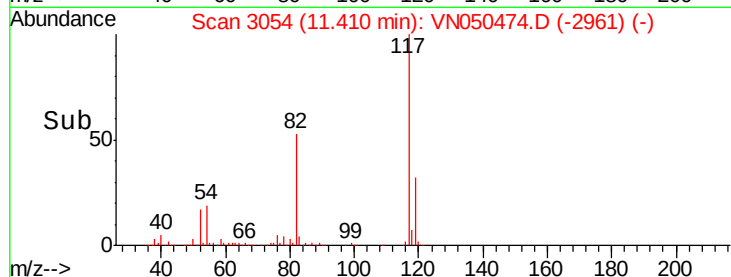
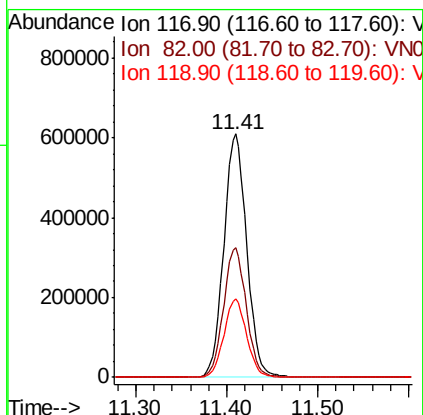
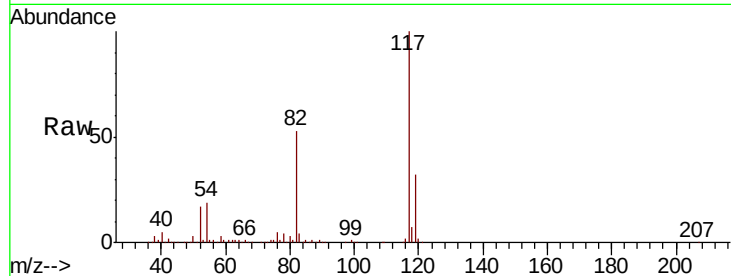




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050474.D
Acq: 8 Aug 2018 21:26

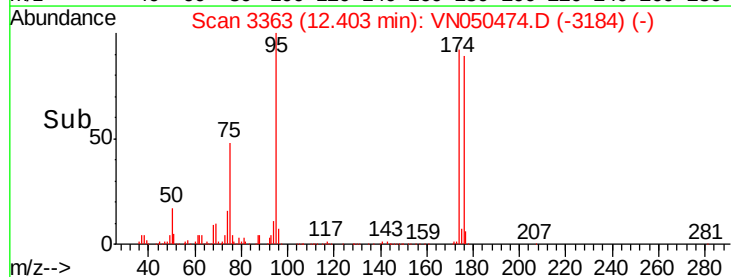
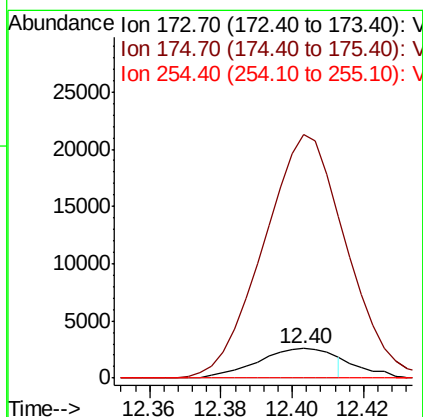
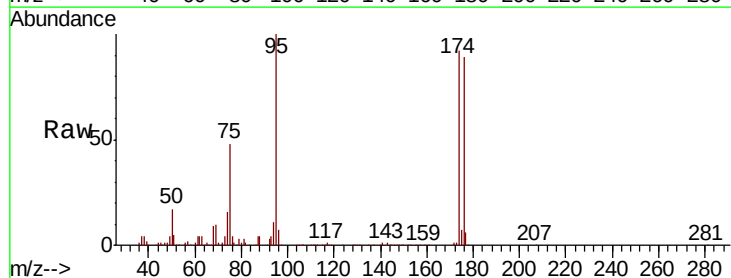
Instrument :
MSVOA_N
ClientSampleId :
CL-02-080718-D

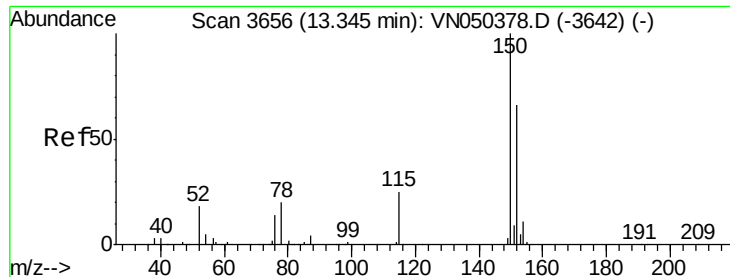
Tot Ion:117 Resp: 1061907
Ion Ratio Lower Upper
117 100
82 53.0 43.7 65.5
119 32.3 26.1 39.1



#71
Bromoform
Concen: 0.54 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN050474.D
Acq: 8 Aug 2018 21:26

Tgt Ion:173 Resp: 3842
Ion Ratio Lower Upper
173 100
175 747.3 24.1 72.2#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050474.D

Acq: 8 Aug 2018 21:26

Instrument :

MSVOA_N

ClientSampleId :

CL-02-080718-D

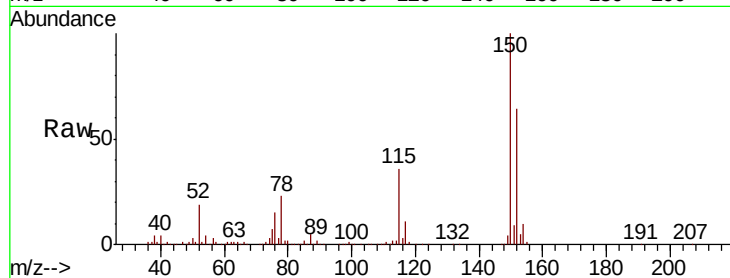
Tot Ion:152 Resp: 458846

Ion Ratio Lower Upper

152 100

115 56.1 27.8 83.3

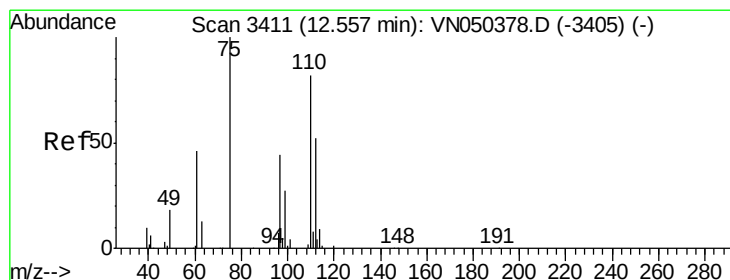
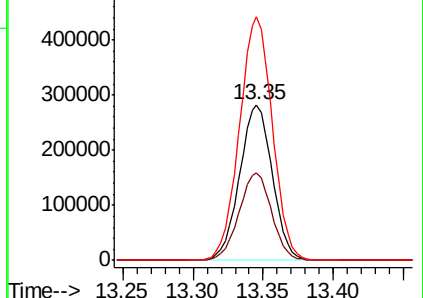
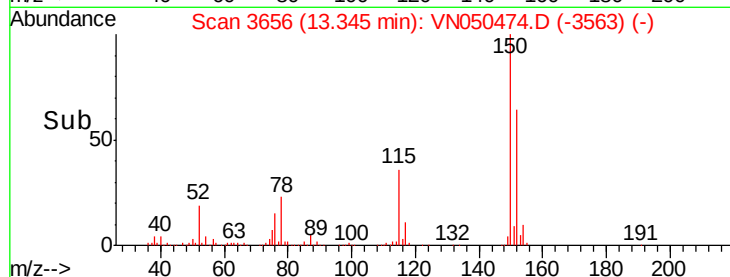
150 157.5 0.0 348.6



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



#76

1,2,3-Trichloropropane

Concen: 29.11 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050474.D

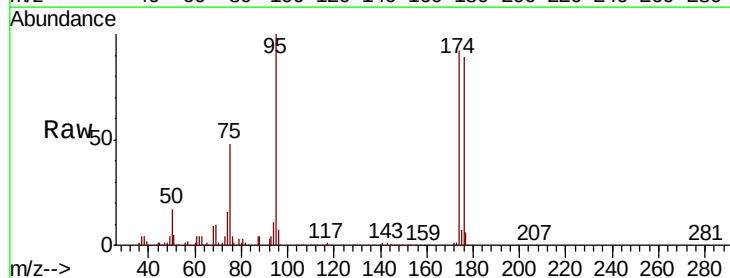
Acq: 8 Aug 2018 21:26

Tgt Ion: 75 Resp: 241809

Ion Ratio Lower Upper

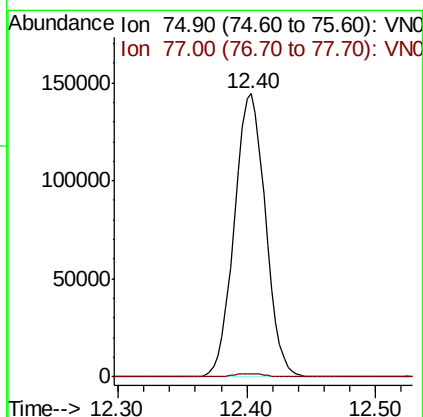
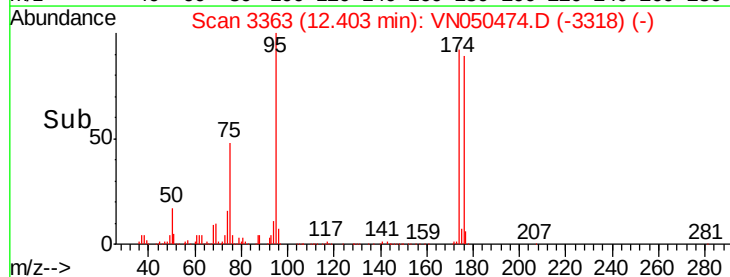
75 100

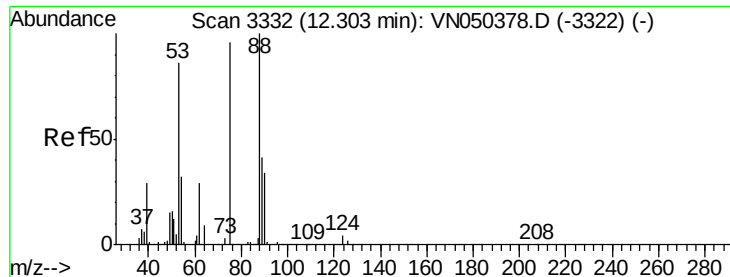
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 102.29 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050474.D

Acq: 8 Aug 2018 21:26

Instrument :

MSVOA_N

ClientSampleId :

CL-02-080718-D

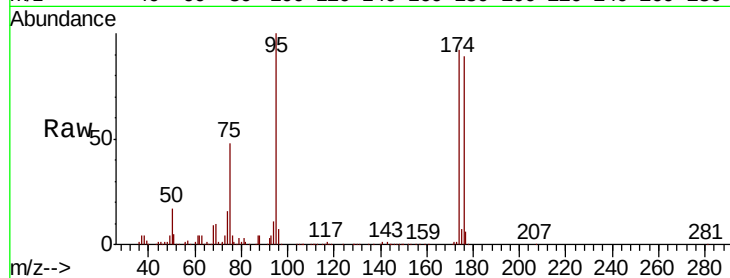
Tot Ion: 75 Resp: 241809

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

89 0.0 36.0 54.0#

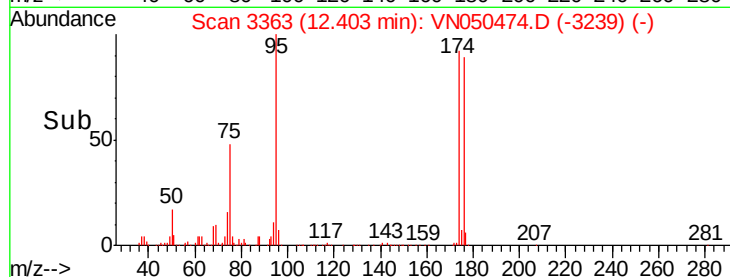


Abundance Ion 74.90 (74.60 to 75.60): VN0

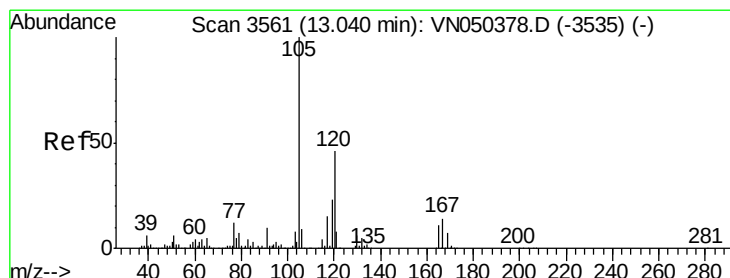
Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40



Time--> 12.30 12.40 12.50



#84

1,2,4-Trimethylbenzene

Concen: 0.28 ug/l

RT: 13.04 min Scan# 3561

Delta R.T. 0.00 min

Lab File: VN050474.D

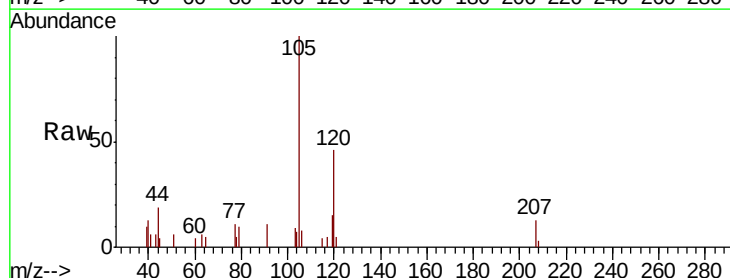
Acq: 8 Aug 2018 21:26

Tgt Ion: 105 Resp: 7820

Ion Ratio Lower Upper

105 100

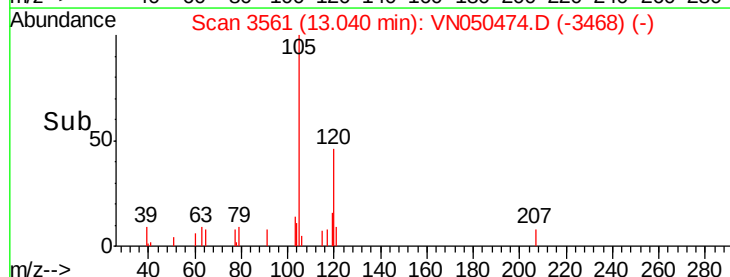
120 44.2 22.9 68.7



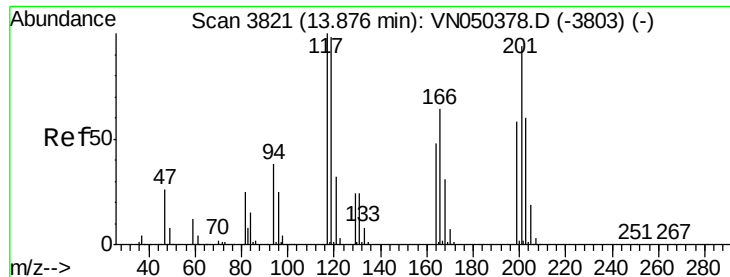
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.04



Time--> 13.00 13.05 13.10



#90

Hexachloroethane

Concen: 0.23 ug/l

RT: 13.89 min Scan# 3826

Delta R.T. 0.02 min

Lab File: VN050474.D

Acq: 8 Aug 2018 21:26

Instrument :

MSVOA_N

ClientSampleId :

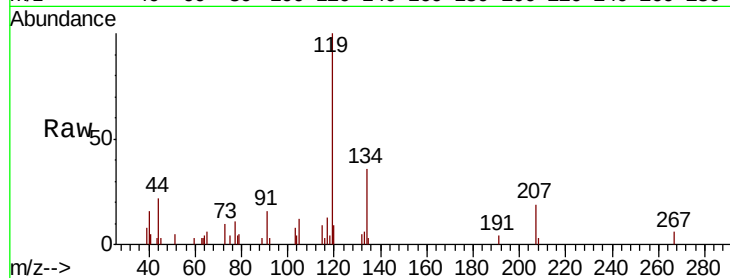
CL-02-080718-D

Tot Ion:117 Resp: 1126

Ion Ratio Lower Upper

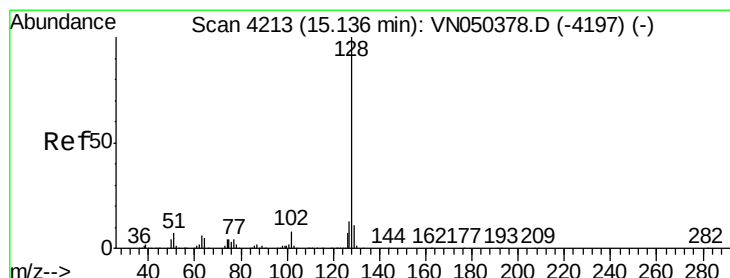
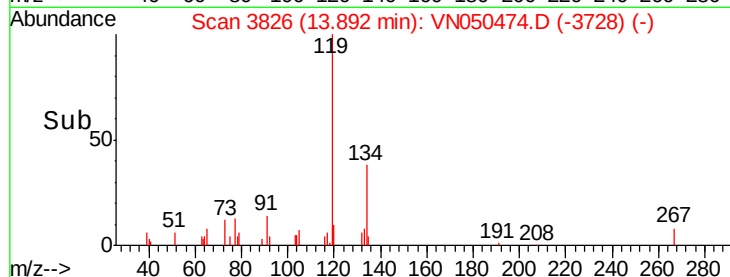
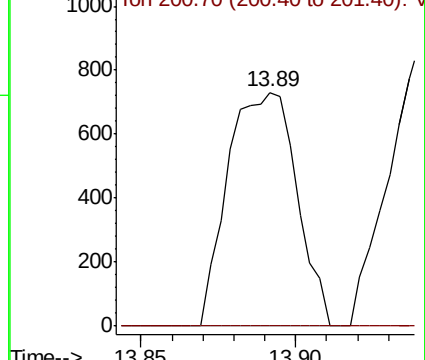
117 100

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: 87.18 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050474.D

Acq: 8 Aug 2018 21:26

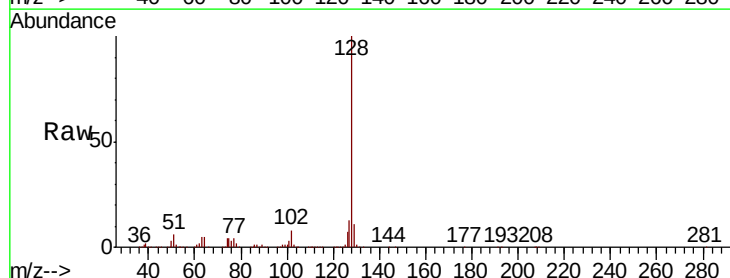
Tgt Ion:128 Resp: 2001463

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

129 10.7 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

