

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040519\
 Data File : VN054966.D
 Acq On : 5 Apr 2019 11:20
 Operator : JC/SP
 Sample : K2265-01RE
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

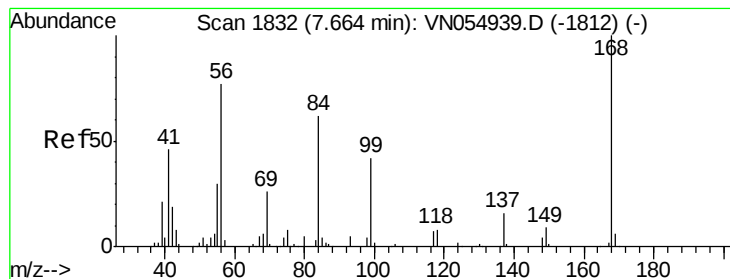
Quant Time: Apr 05 23:30:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N040419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 05 02:23:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	512137	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	852402	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	727310	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	250281	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	340607	50.44	ug/l	0.00
Spiked Amount			Recovery	=	100.88%	
35) Dibromofluoromethane	7.59	113	275099	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
50) Toluene-d8	10.09	98	1023247	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
62) 4-Bromofluorobenzene	12.40	95	310090	44.13	ug/l	0.00
Spiked Amount			Recovery	=	88.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	29	4.216	ug/l #	1
16) Acetone	3.82	43	12391	Below Cal		96
18) Methyl Acetate	4.33	43	1160	Below Cal	#	83
31) Cyclohexane	7.67	56	11133	Below Cal	#	6
36) 1,1-Dichloropropene	7.66	75	39658	4.696	ug/l #	45
38) Carbon Tetrachloride	7.67	117	48897	5.995	ug/l #	18
43) Isopropyl Acetate	8.27	43	5988	0.613	ug/l #	64
51) 4-Methyl-2-Pentanone	10.00	43	1567	0.288	ug/l	99
52) Toluene	10.16	92	5022	0.351	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	65	2.035	ug/l #	35
67) Ethyl Benzene	11.51	91	7401	0.277	ug/l	97
68) m/p-Xylenes	11.62	106	8206	0.840	ug/l	100
69) o-Xylene	11.94	106	4211	0.442	ug/l	94
71) Bromoform	12.40	173	2901	0.889	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	159196	40.635	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	159196	146.926	ug/l #	4
95) Naphthalene	15.14	128	1325	3.000	ug/l #	75

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054966.D

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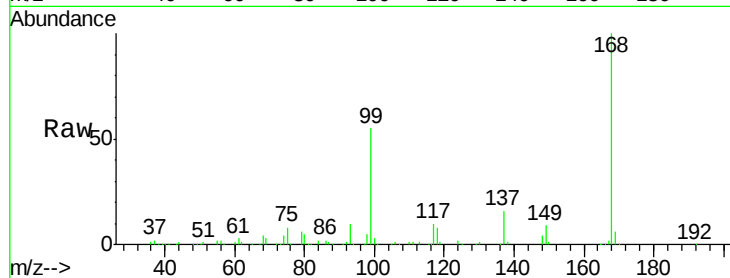
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 512137

Ion Ratio Lower Upper

168 100

99 54.7 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

200000

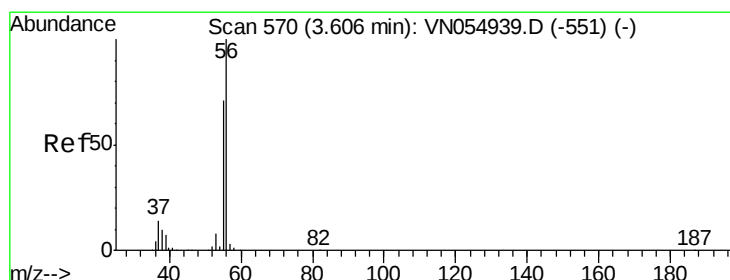
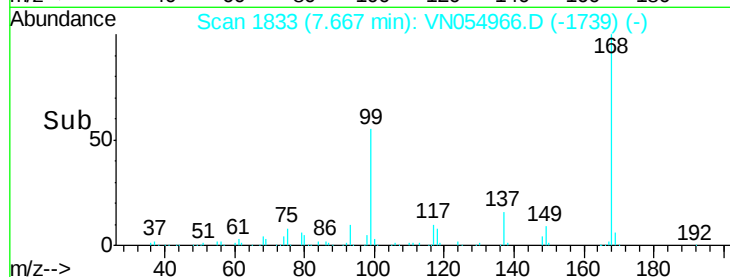
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 4.216 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054966.D

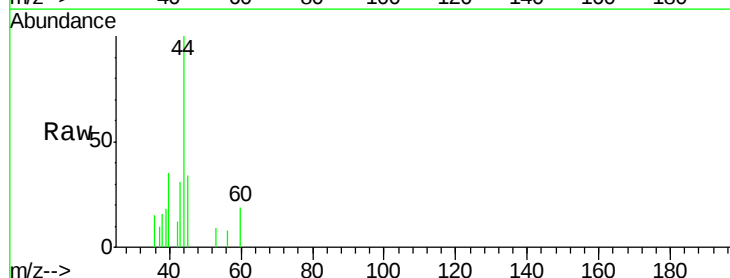
Acq: 5 Apr 2019 11:20

Tgt Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 769.0 58.6 87.8#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

300

250

200

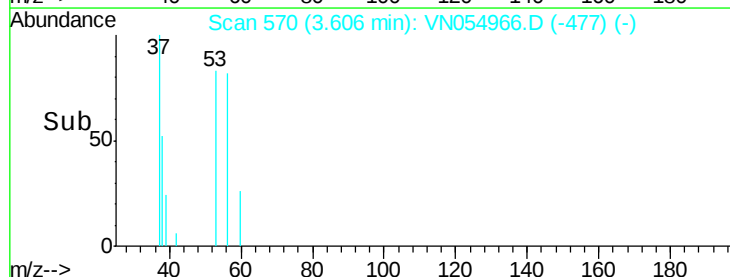
150

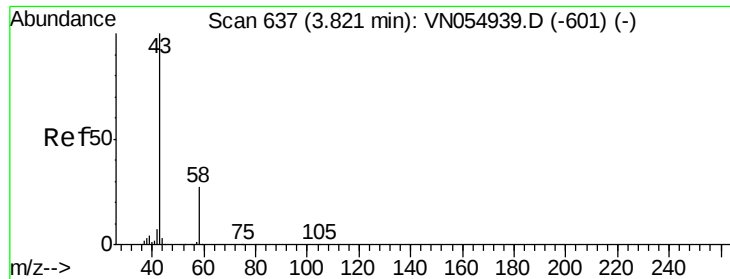
100

50

0

Time-->

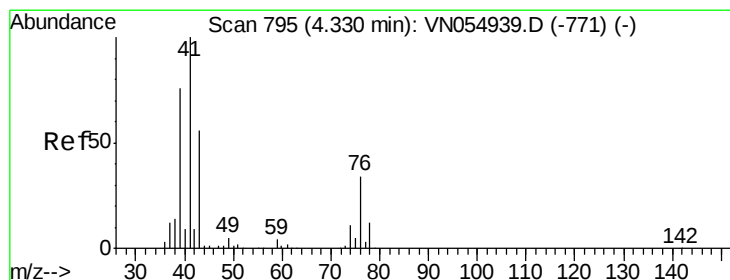
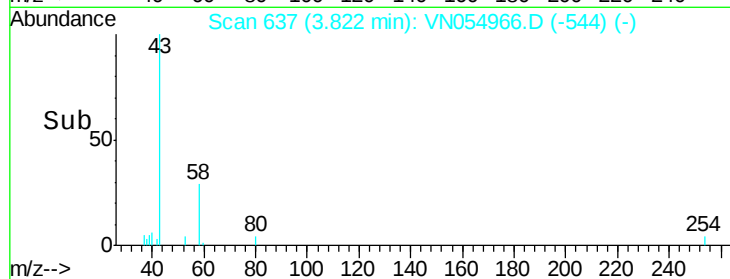
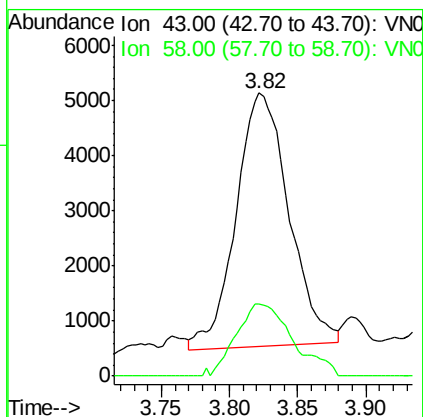
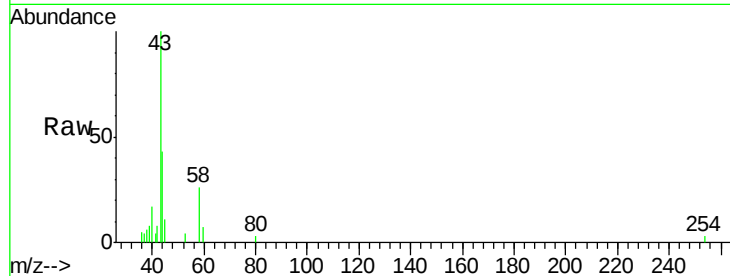




#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN054966.D
Acq: 5 Apr 2019 11:20

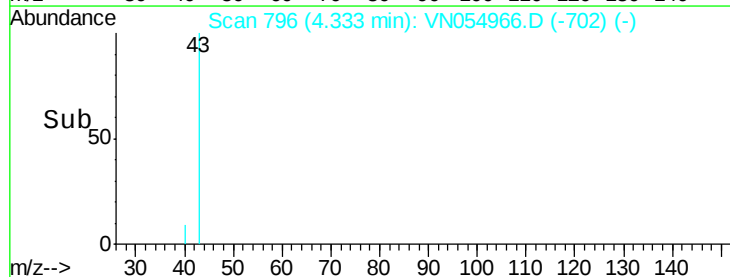
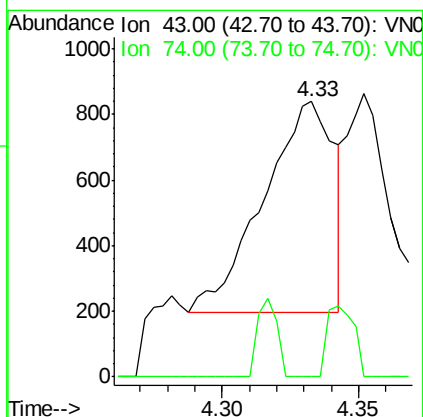
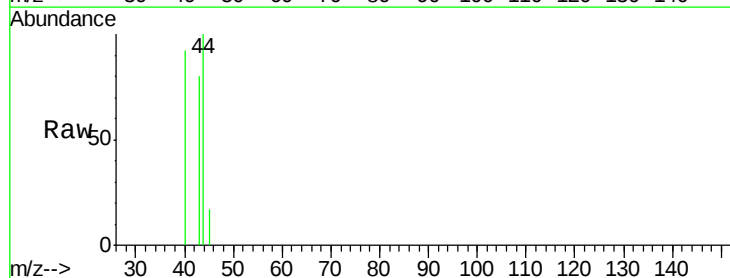
Instrument :
MSVOA_N
ClientSampleId :

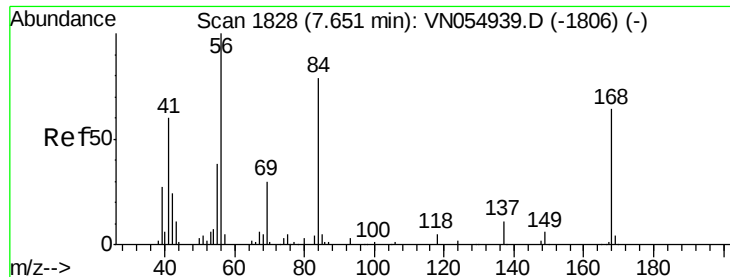
Tot Ion: 43 Resp: 12391
Ion Ratio Lower Upper
43 100
58 29.4 21.7 32.5



#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054966.D
Acq: 5 Apr 2019 11:20

Tgt Ion: 43 Resp: 1160
Ion Ratio Lower Upper
43 100
74 12.7 16.4 24.6#





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

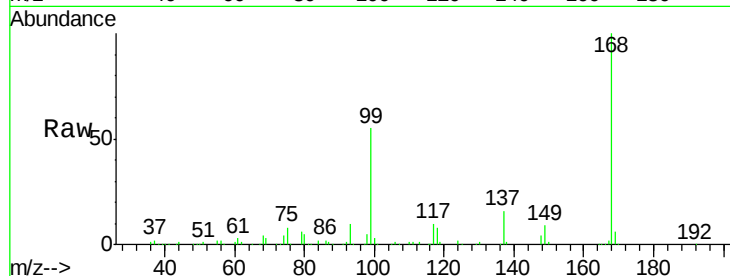
Lab File: VN054966.D

Acq: 5 Apr 2019 11:20

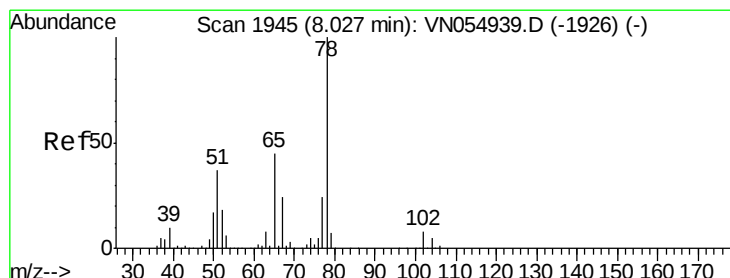
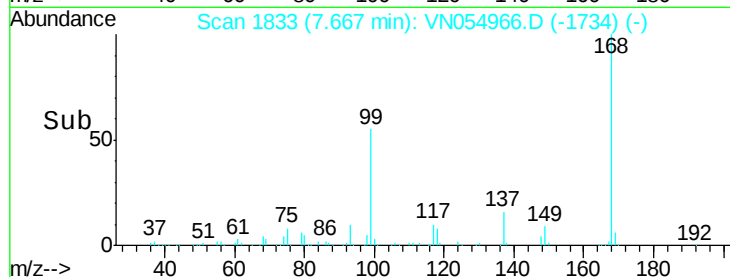
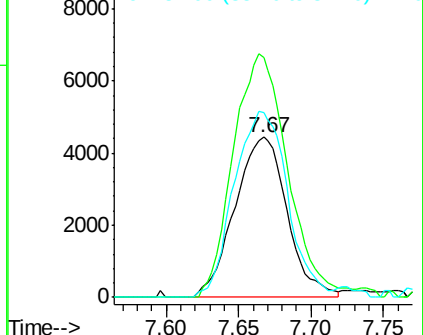
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 11133

Ion	Ratio	Lower	Upper
56	100		
69	149.8	23.8	35.6#
84	115.9	61.8	92.8#



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: 50.443 ug/l

RT: 8.03 min Scan# 1945

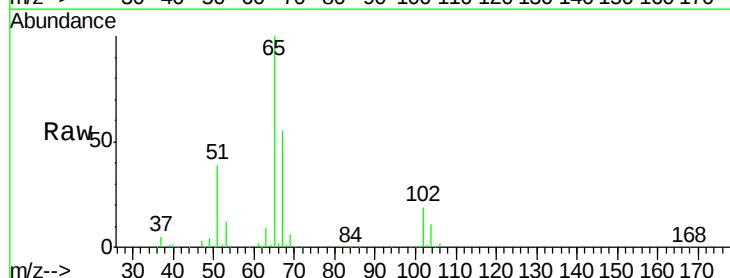
Delta R.T. 0.00 min

Lab File: VN054966.D

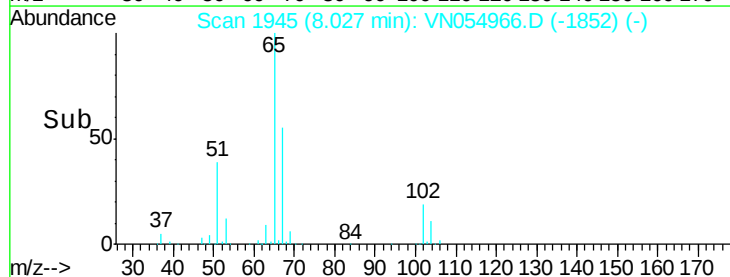
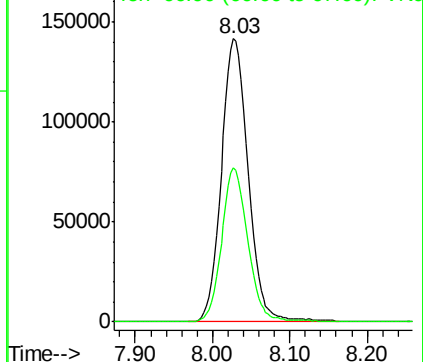
Acq: 5 Apr 2019 11:20

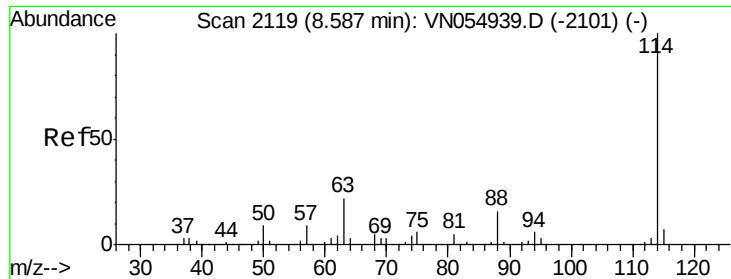
Tgt Ion: 65 Resp: 340607

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	105.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054966.D

Acq: 5 Apr 2019 11:20

Instrument :

MSVOA_N

ClientSampleId :

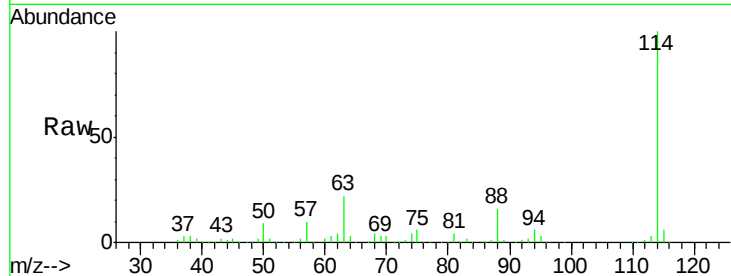
Tot Ion:114 Resp: 852402

Ion Ratio Lower Upper

114 100

63 22.5 0.0 44.6

88 15.8 0.0 32.0



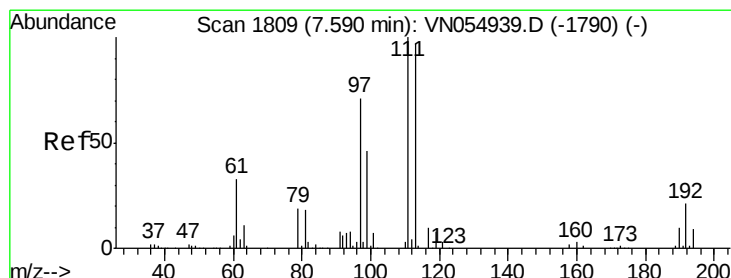
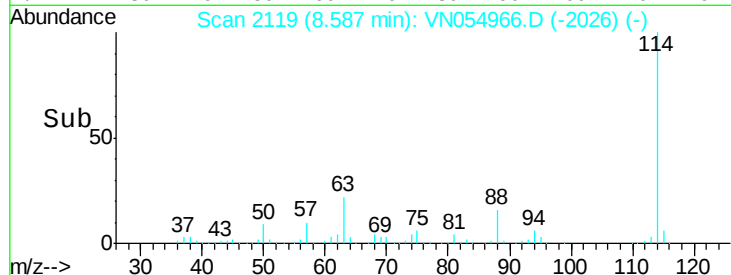
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.59

Time-->



#35

Dibromofluoromethane

Concen: 49.578 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054966.D

Acq: 5 Apr 2019 11:20

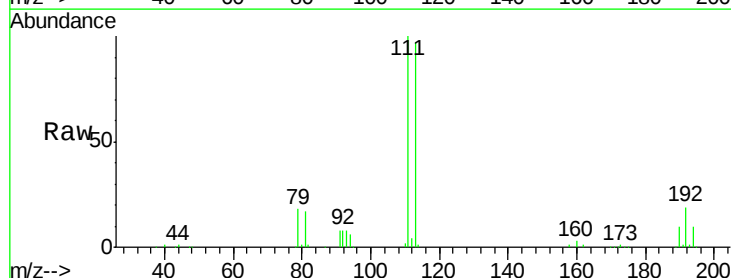
Tgt Ion:113 Resp: 275099

Ion Ratio Lower Upper

113 100

111 102.8 81.0 121.4

192 20.0 16.5 24.7



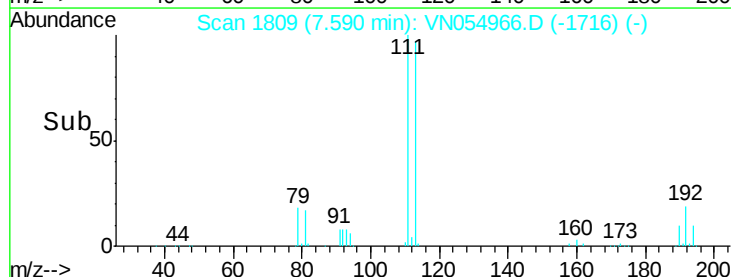
Abundance Ion 112.80 (112.50 to 113.50): V

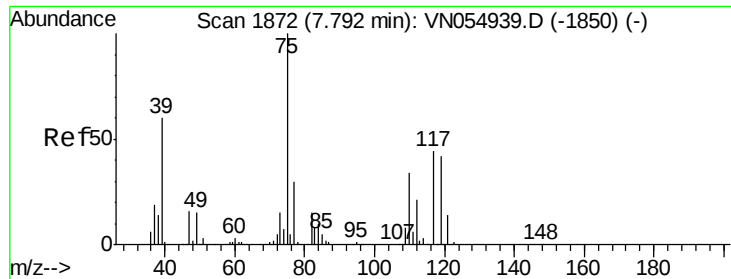
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

7.59

Time-->

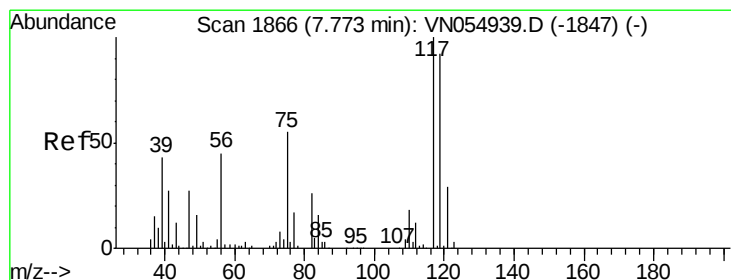
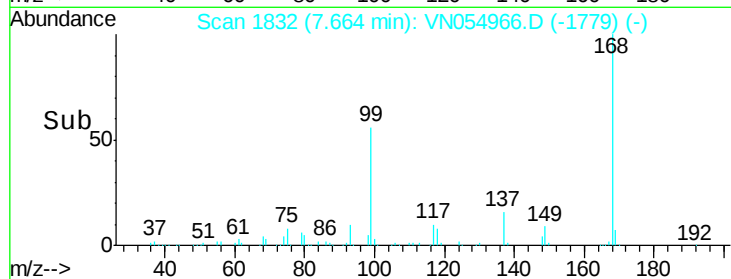
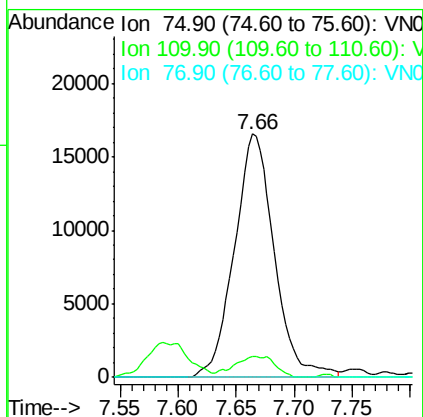
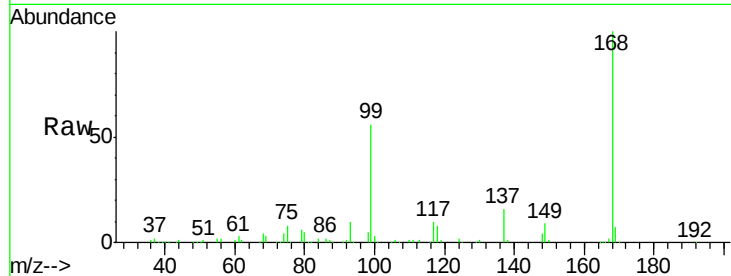




#36
 1,1-Dichloropropene
 Concen: 4.696 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054966.D
 Acq: 5 Apr 2019 11:20

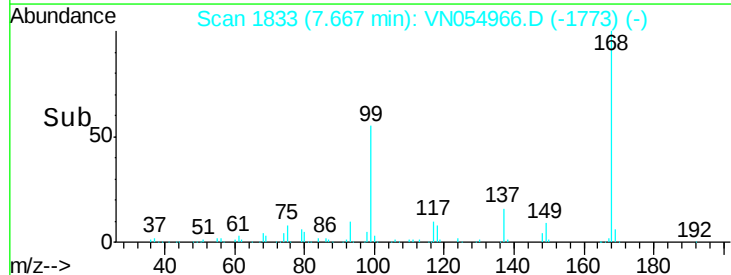
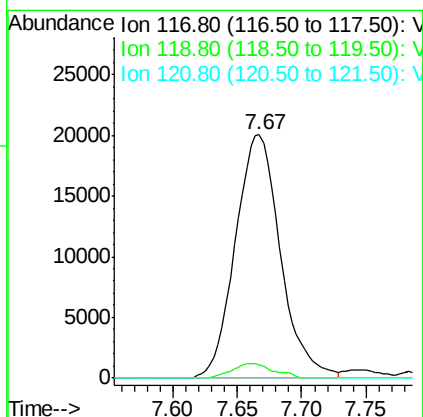
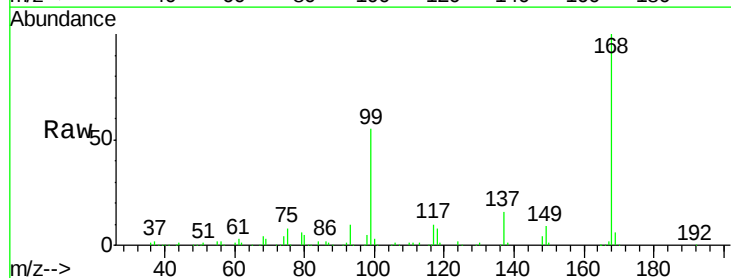
Instrument :
 MSVOA_N
 ClientSampleId :

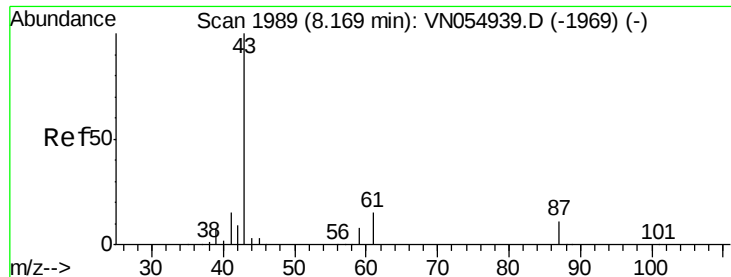
Tot Ion	75	Resp	39658
Ion Ratio	Lower	Upper	
75	100		
110	3.7	17.0	50.9#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 5.995 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054966.D
 Acq: 5 Apr 2019 11:20

Tgt Ion	117	Resp	48897
Ion Ratio	Lower	Upper	
117	100		
119	5.4	73.6	110.4#
121	0.0	23.4	35.0#





#43

Isopropyl Acetate

Concen: 0.613 ug/l

RT: 8.27 min Scan# 2021

Delta R.T. 0.10 min

Lab File: VN054966.D

Acq: 5 Apr 2019 11:20

Instrument :
MSVOA_N
ClientSampleId :

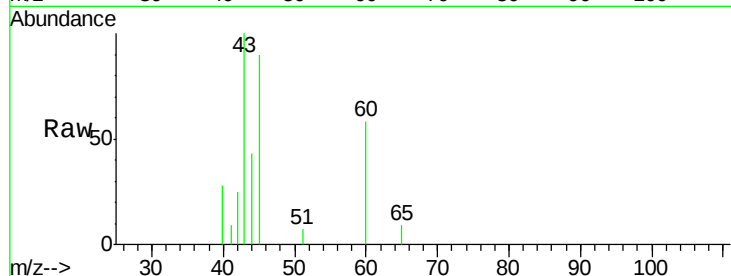
Tot Ion: 43 Resp: 5988

Ion Ratio Lower Upper

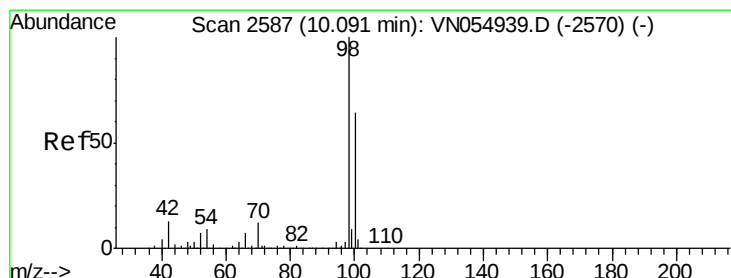
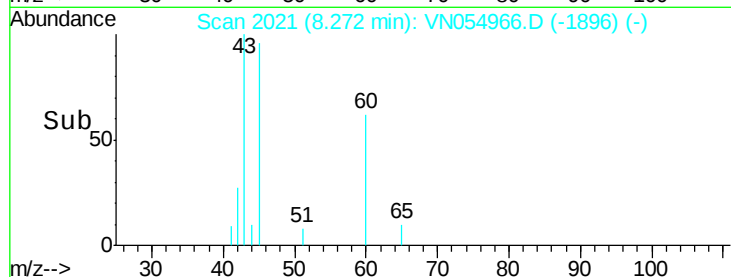
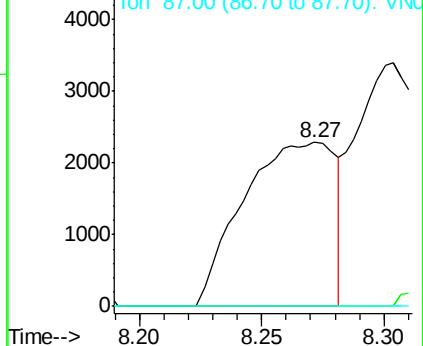
43 100

61 0.0 14.4 21.6#

87 0.0 9.0 13.4#



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



#50

Toluene-d8

Concen: 48.601 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054966.D

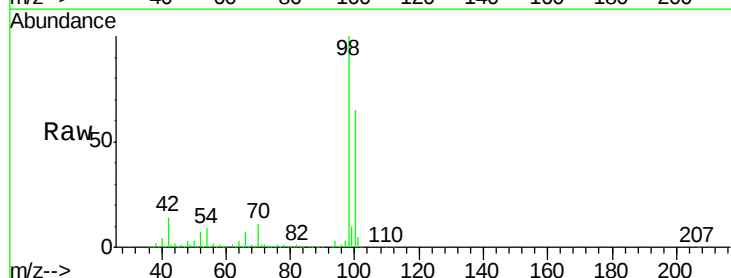
Acq: 5 Apr 2019 11:20

Tgt Ion: 98 Resp: 1023247

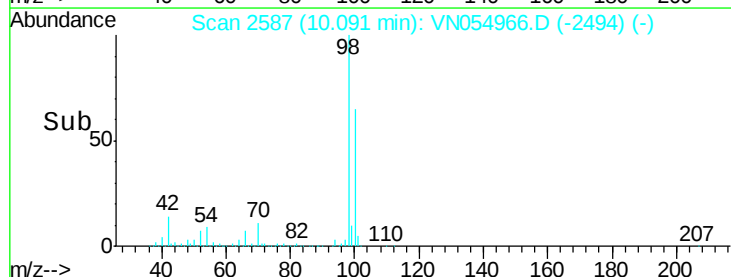
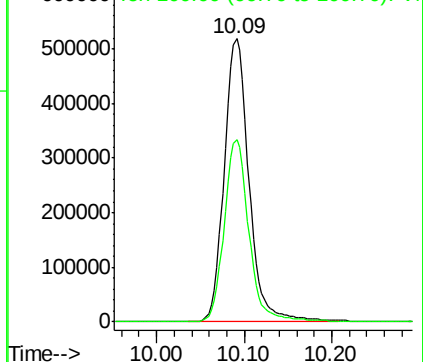
Ion Ratio Lower Upper

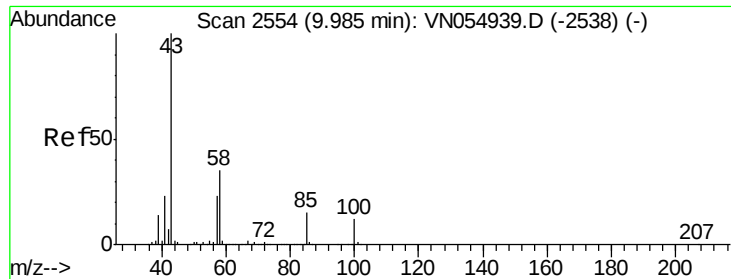
98 100

100 64.3 51.5 77.3



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





#51

4-Methyl-2-Pentanone

Concen: 0.288 ug/l

RT: 10.00 min Scan# 2558

Delta R.T. 0.01 min

Lab File: VN054966.D

Acq: 5 Apr 2019 11:20

Instrument :

MSVOA_N

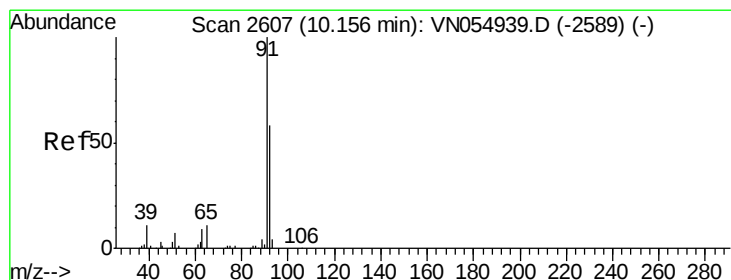
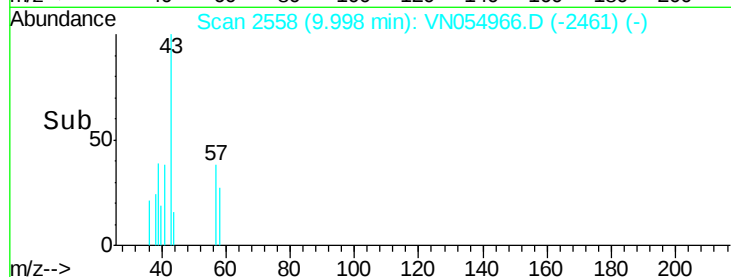
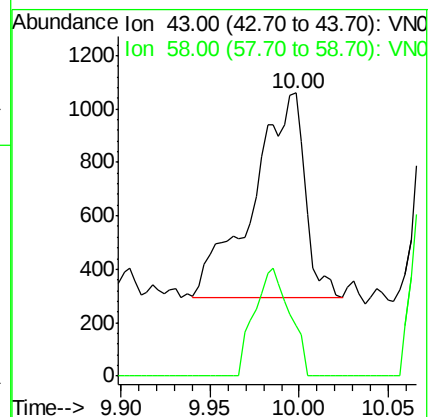
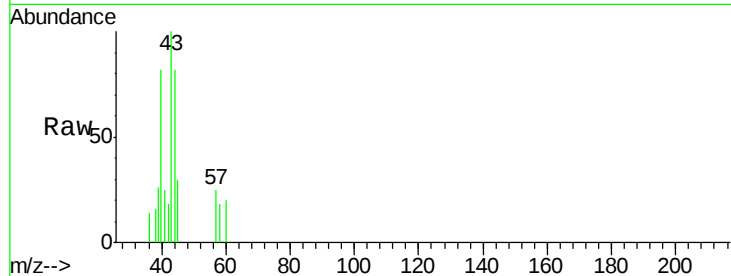
ClientSampled :

Tot Ion: 43 Resp: 1567

Ion Ratio Lower Upper

43 100

58 35.9 28.3 42.5



#52

Toluene

Concen: 0.351 ug/l

RT: 10.16 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN054966.D

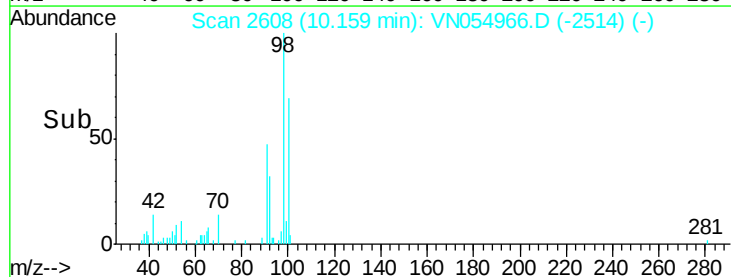
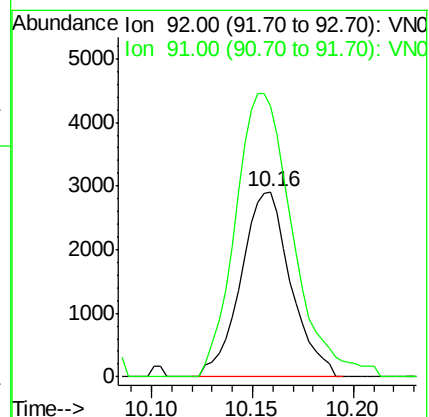
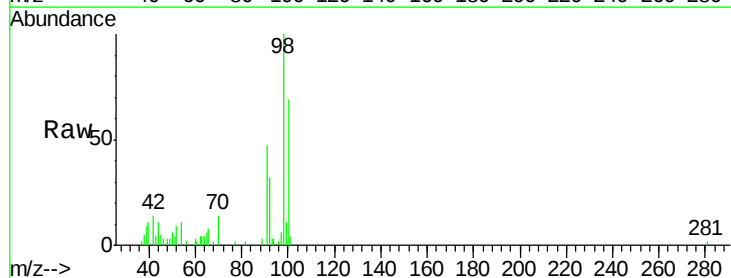
Acq: 5 Apr 2019 11:20

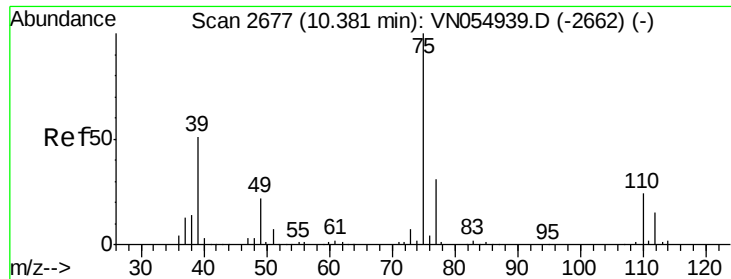
Tgt Ion: 92 Resp: 5022

Ion Ratio Lower Upper

92 100

91 176.1 138.8 208.2





#53

t-1,3-Dichloropropene

Concen: 2.035 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054966.D

Acq: 5 Apr 2019 11:20

Instrument :

MSVOA_N

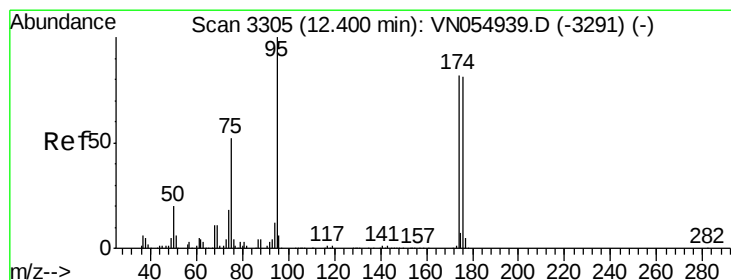
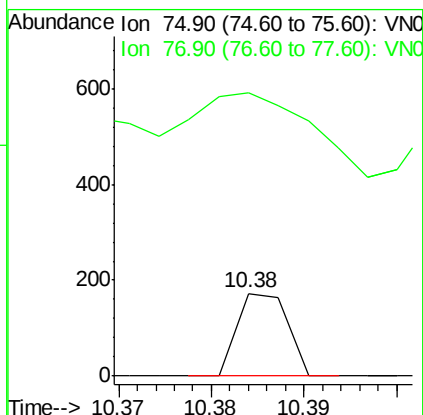
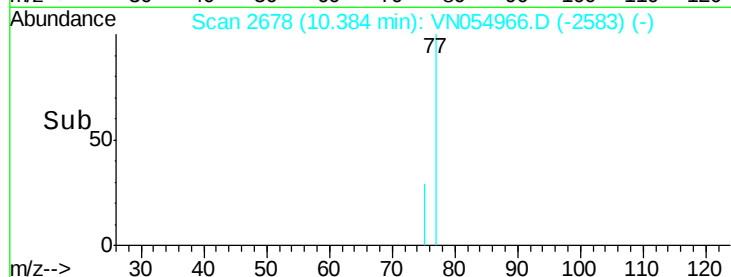
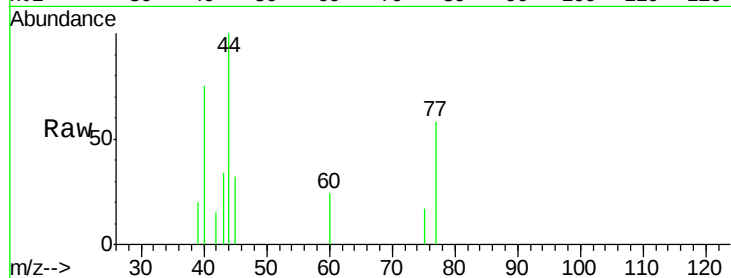
ClientSampleId :

Tot Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

77 66.5 24.6 36.8#



#62

4-Bromofluorobenzene

Concen: 44.133 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054966.D

Acq: 5 Apr 2019 11:20

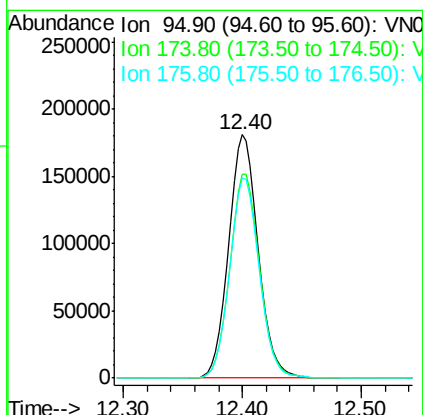
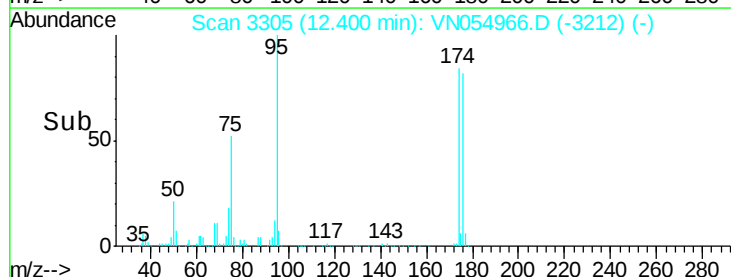
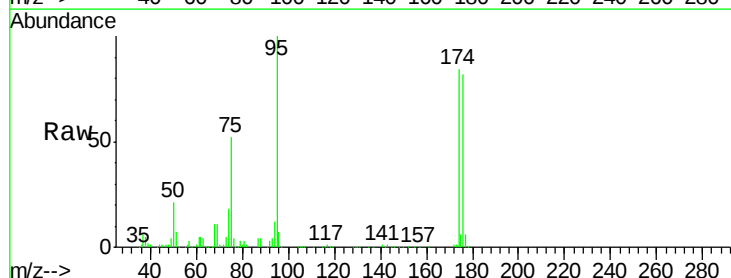
Tgt Ion: 95 Resp: 310090

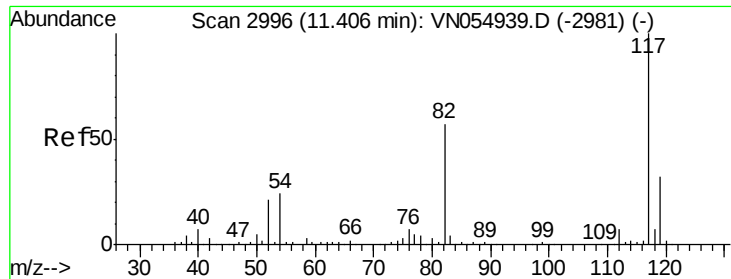
Ion Ratio Lower Upper

95 100

174 84.5 0.0 166.2

176 82.6 0.0 163.2

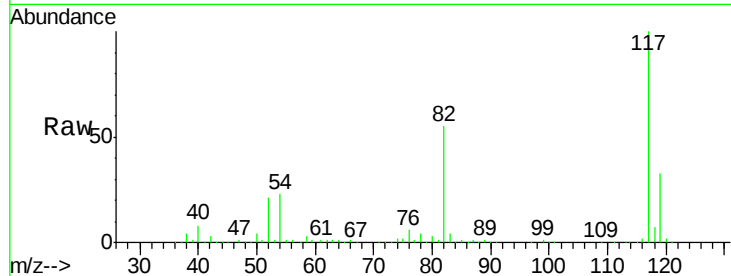




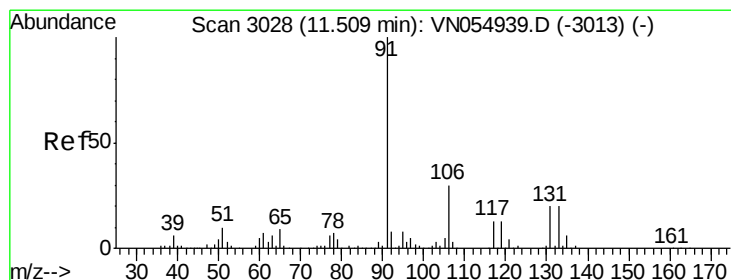
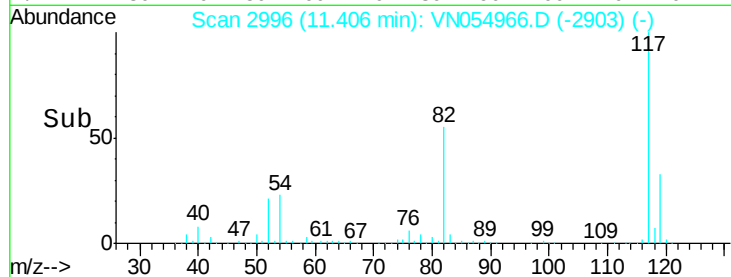
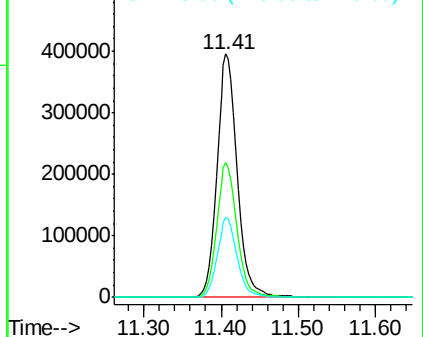
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054966.D
Acq: 5 Apr 2019 11:20

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 727310
Ion Ratio Lower Upper
117 100
82 55.4 45.3 67.9
119 32.6 25.8 38.6

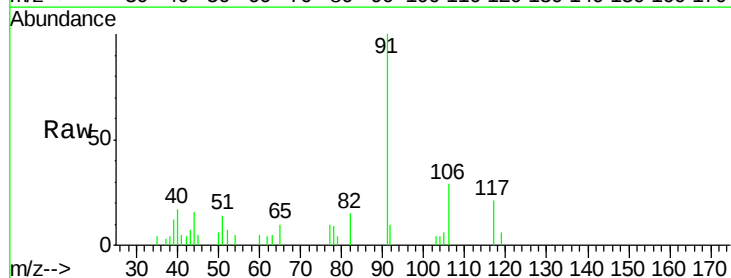


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

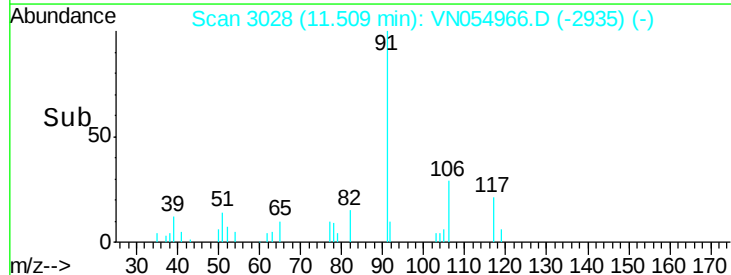
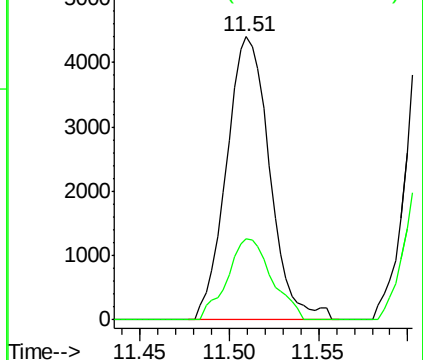


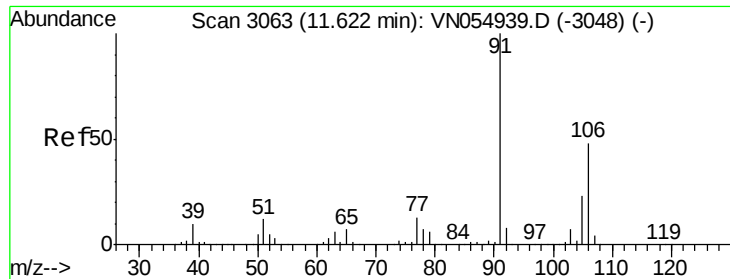
#67
Ethyl Benzene
Concen: 0.277 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054966.D
Acq: 5 Apr 2019 11:20

Tgt Ion: 91 Resp: 7401
Ion Ratio Lower Upper
91 100
106 28.7 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.00 (105.70 to 106.70): V

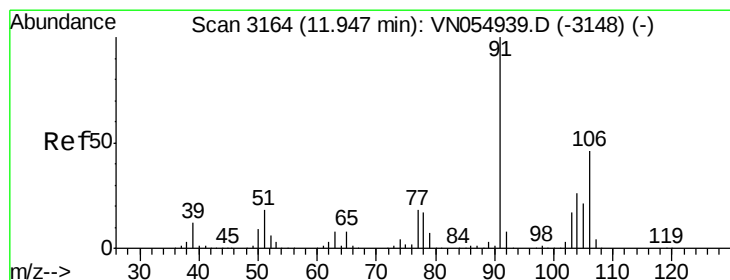
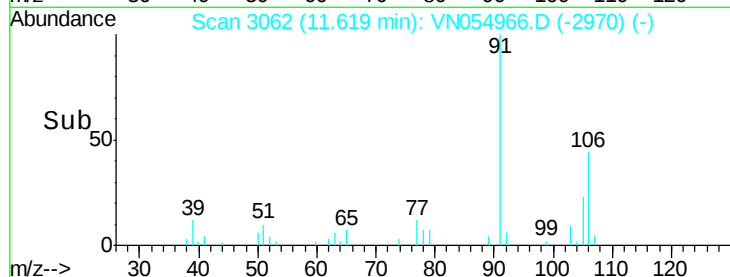
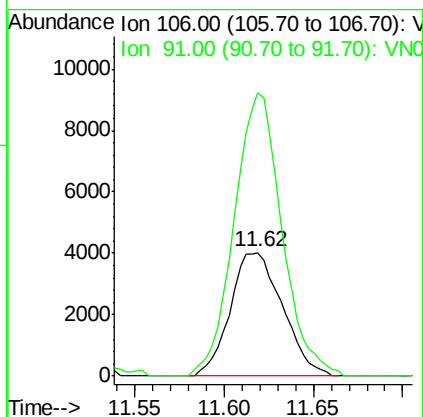
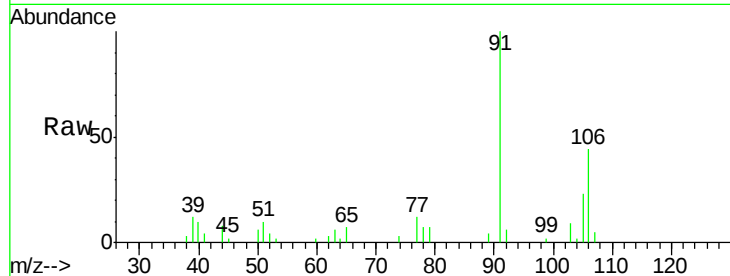




#68
m/p-Xvlenes
Concen: 0.840 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054966.D
Acq: 5 Apr 2019 11:20

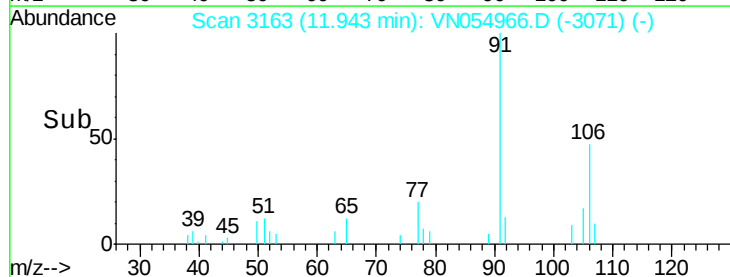
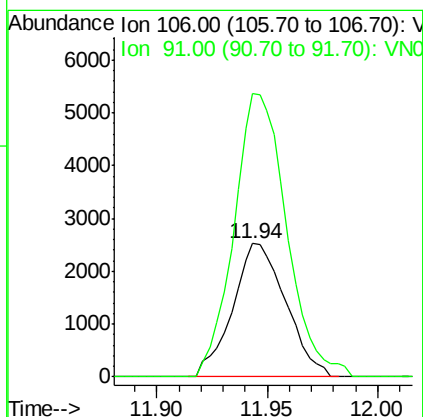
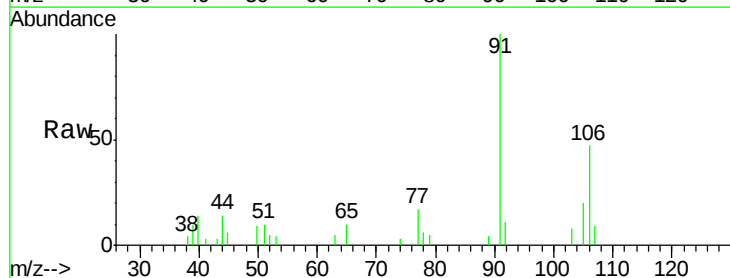
Instrument :
MSVOA_N
ClientSampled :

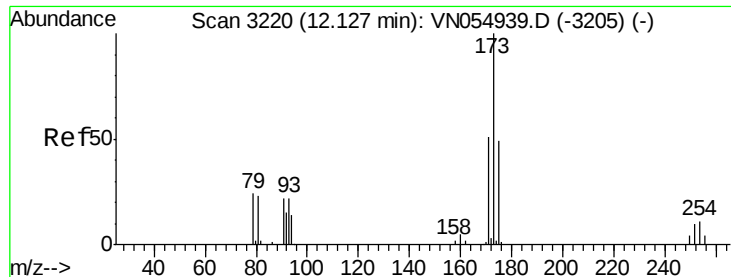
Tot Ion:106 Resp: 8206
Ion Ratio Lower Upper
106 100
91 209.5 167.4 251.2



#69
o-Xylene
Concen: 0.442 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN054966.D
Acq: 5 Apr 2019 11:20

Tgt Ion:106 Resp: 4211
Ion Ratio Lower Upper
106 100
91 210.6 109.9 329.7





#71

Bromoform

Concen: 0.889 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054966.D

Acq: 5 Apr 2019 11:20

Instrument :

MSVOA_N

ClientSampleId :

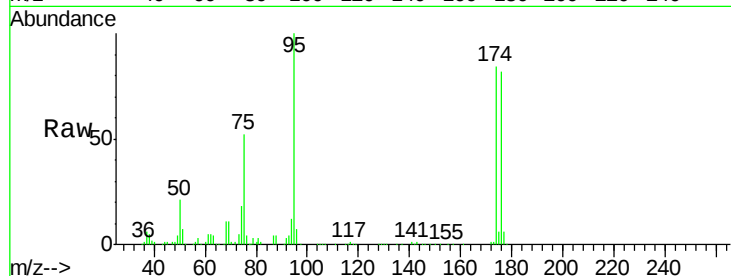
Tot Ion:173 Resp: 2901

Ion Ratio Lower Upper

173 100

175 589.5 24.1 72.4#

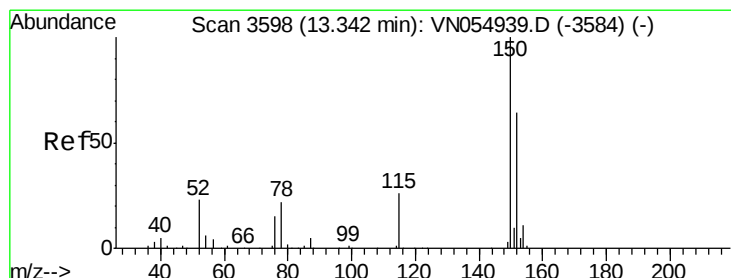
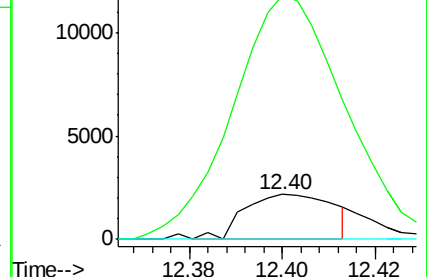
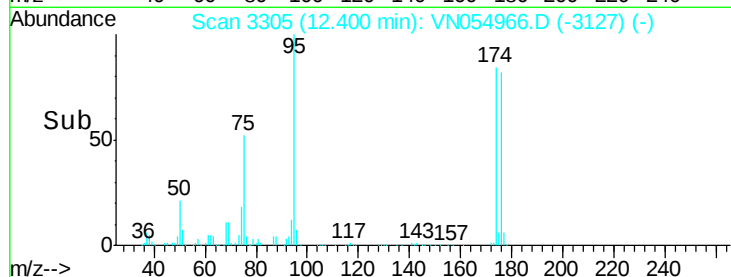
254 0.0 0.0 0.0



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: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054966.D

Acq: 5 Apr 2019 11:20

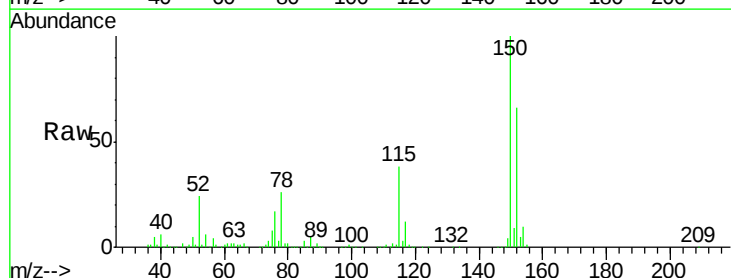
Tgt Ion:152 Resp: 250281

Ion Ratio Lower Upper

152 100

115 57.9 28.9 86.8

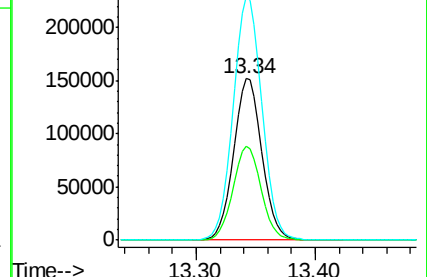
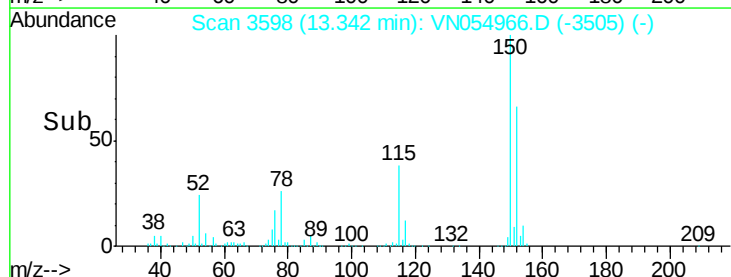
150 152.8 0.0 345.4

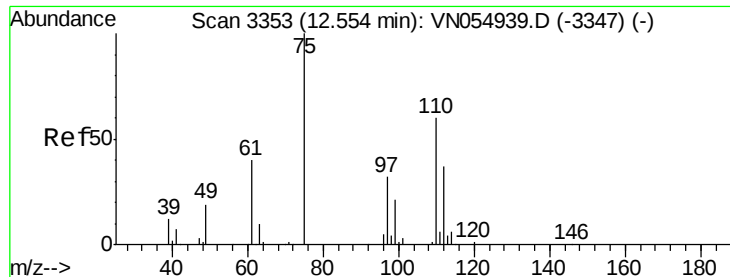


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

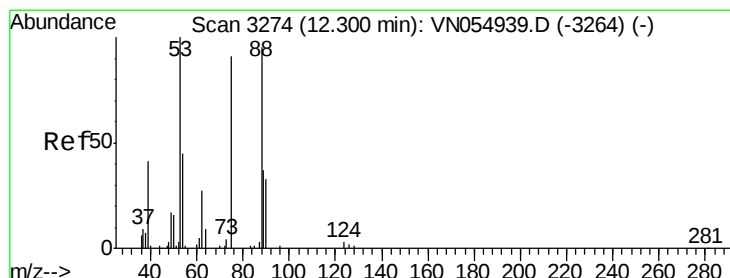
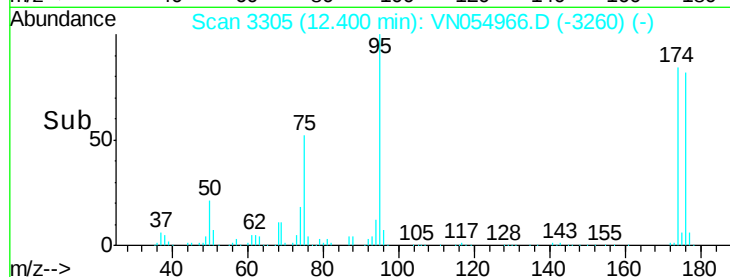
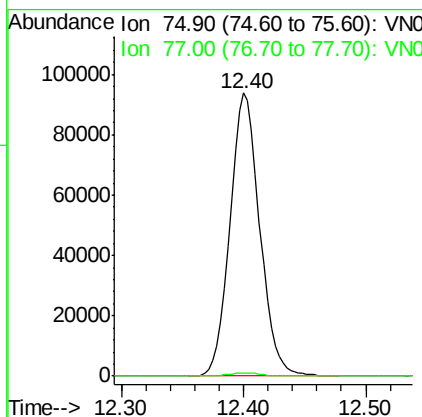
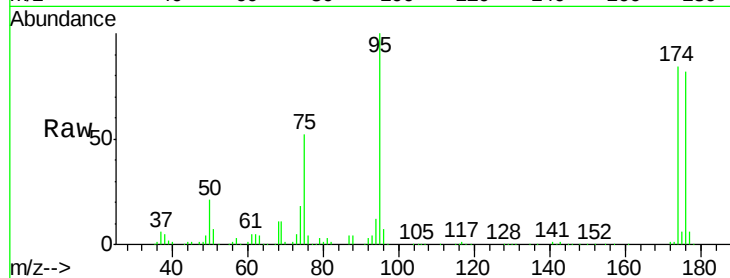




#76
 1,2,3-Trichloropropane
 Concen: 40.635 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN054966.D
 Acq: 5 Apr 2019 11:20

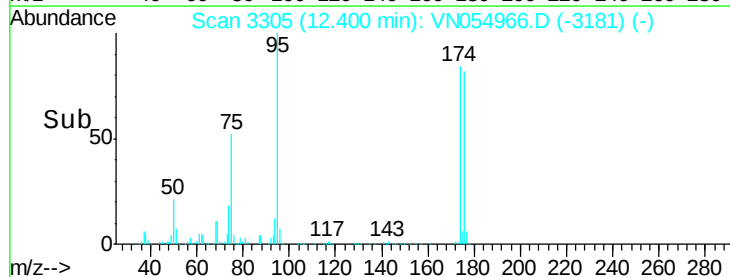
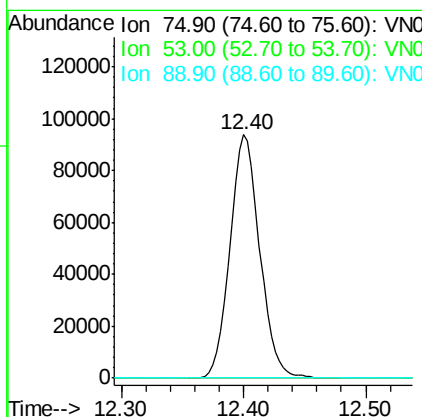
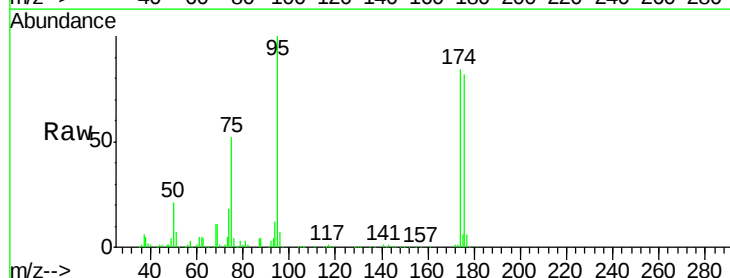
Instrument :
 MSVOA_N
 ClientSampleId :

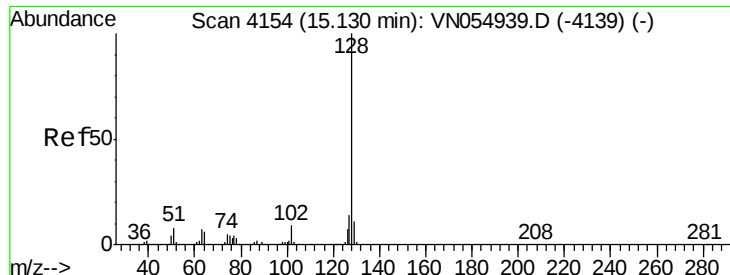
Tot Ion: 75 Resp: 159196
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 146.926 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054966.D
 Acq: 5 Apr 2019 11:20

Tgt Ion: 75 Resp: 159196
 Ion Ratio Lower Upper
 75 100
 53 0.0 92.8 139.2#
 89 0.0 36.7 55.1#





#95

Naphthalene

Concen: 3.000 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

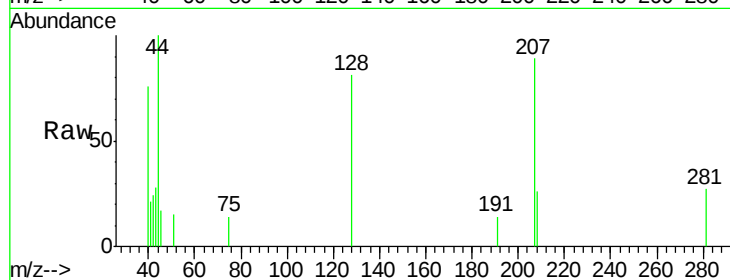
Lab File: VN054966.D

Acq: 5 Apr 2019 11:20

Instrument :

MSVOA_N

ClientSampleId :



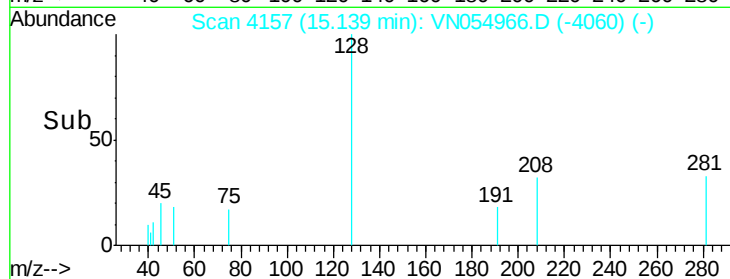
Tot Ion:128 Resp: 1325

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 5.1 8.6 13.0#



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

