

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032519\
 Data File : VN054660.D
 Acq On : 25 Mar 2019 9:44
 Operator : JC/SP
 Sample : VN0325MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0325MBL01

Quant Time: Mar 26 01:19:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	536741	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	849490	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	709926	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	242139	50.00	ug/l	0.00

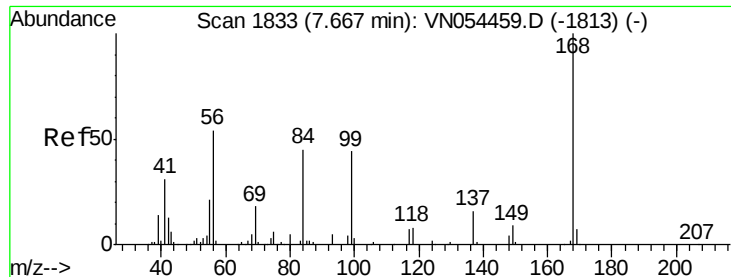
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	345982	51.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.64%	
35) Dibromofluoromethane	7.59	113	269696	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
50) Toluene-d8	10.09	98	1017165	49.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.88%	
62) 4-Bromofluorobenzene	12.40	95	311436	44.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.96%	

Target Compounds

					Qvalue	
13) Acrolein	3.60	56	220	0.394	ug/l #	24
16) Acetone	3.81	43	851	0.424	ug/l #	38
18) Methyl Acetate	4.33	43	1214	0.271	ug/l #	54
29) Tetrahydrofuran	7.23	42	748	0.448	ug/l #	30
31) Cyclohexane	7.66	56	11947	Below Cal	#	27
36) 1,1-Dichloropropene	7.66	75	39873	5.020	ug/l #	48
38) Carbon Tetrachloride	7.66	117	50990	6.606	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	1657	0.313	ug/l	96
53) t-1,3-Dichloropropene	10.09	75	158	2.251	ug/l #	72
59) 2-Hexanone	10.75	43	3968	1.149	ug/l	79
71) Bromoform	12.40	173	3003	3.024	ug/l #	1
74) N-amyl acetate	12.07	43	1346	0.240	ug/l #	94
76) 1,2,3-Trichloropropane	12.40	75	158727	41.310	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	158727	136.547	ug/l #	11
89) n-Butylbenzene	13.61	91	4387	0.361	ug/l	93
91) 1,2-Dichlorobenzene	13.65	146	1689	0.217	ug/l	95
93) 1,2,4-Trichlorobenzene	14.90	180	2316	0.598	ug/l	95
94) Hexachlorobutadiene	15.01	225	3688	Below Cal		89
95) Naphthalene	15.13	128	7732	0.895	ug/l	95
96) 1,2,3-Trichlorobenzene	15.31	180	3054	0.792	ug/l	86

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054660.D

Acq: 25 Mar 2019 9:44

Instrument :

MSVOA_N

ClientSampled :

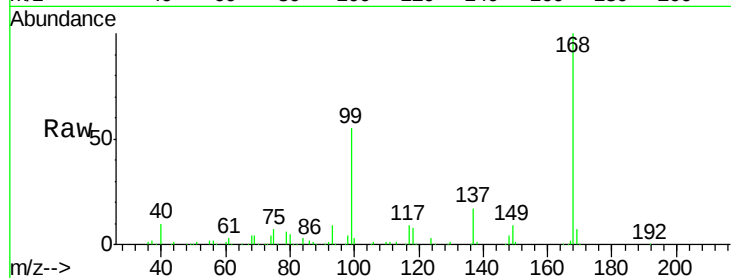
VN0325MBL01

Tot Ion:168 Resp: 536741

Ion Ratio Lower Upper

168 100

99 54.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

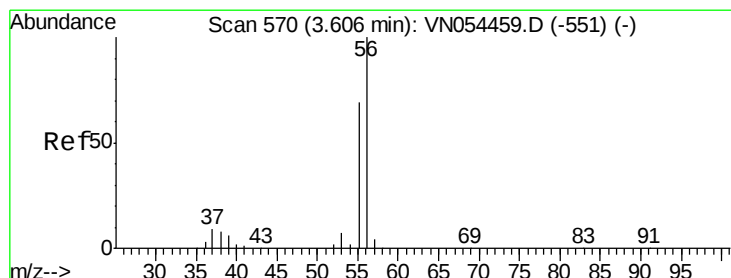
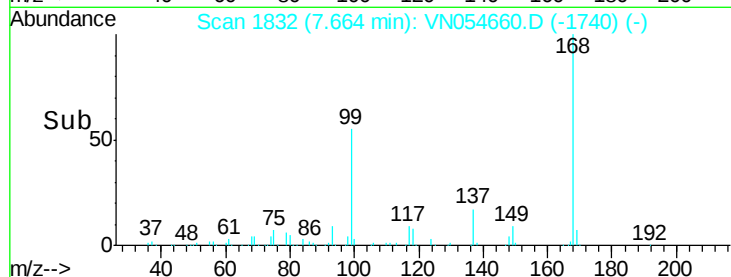
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.394 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN054660.D

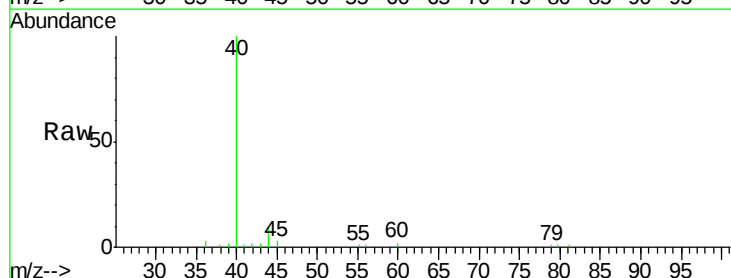
Acq: 25 Mar 2019 9:44

Tgt Ion: 56 Resp: 220

Ion Ratio Lower Upper

56 100

55 134.1 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.60

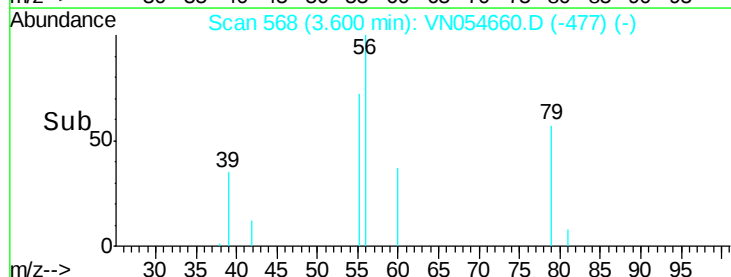
300

200

100

0

Time-->





#16

Acetone

Concen: 0.424 ug/l

RT: 3.81 min Scan# 632

Delta R.T. -0.02 min

Lab File: VN054660.D

Acq: 25 Mar 2019 9:44

Instrument :

MSVOA_N

ClientSampled :

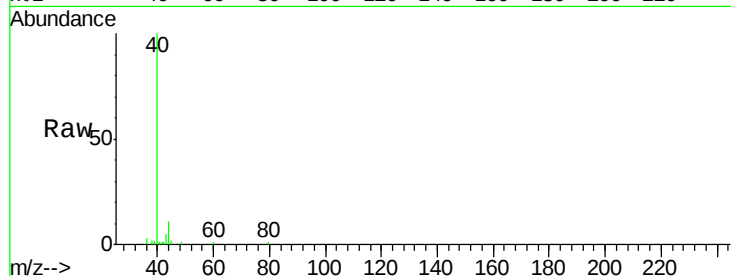
VN0325MBL01

Tot Ion: 43 Resp: 851

Ion Ratio Lower Upper

43 100

58 0.0 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.81

800

600

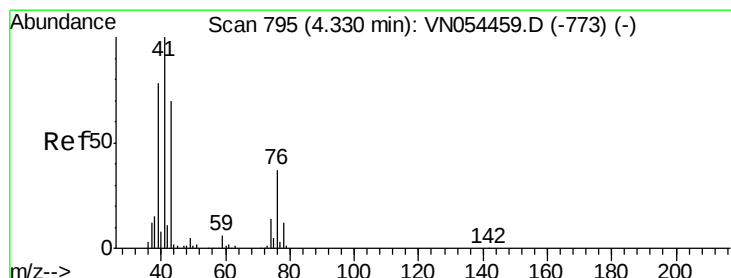
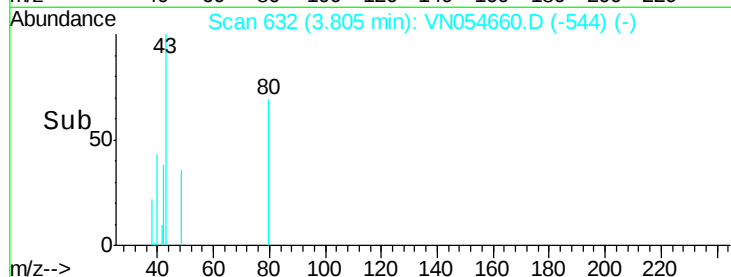
400

200

0

3.78 3.80 3.82 3.84

Time-->



#18

Methyl Acetate

Concen: 0.271 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054660.D

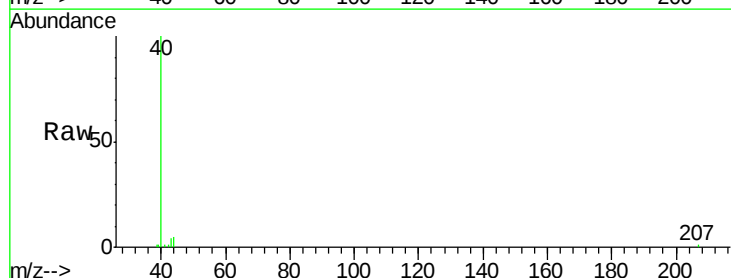
Acq: 25 Mar 2019 9:44

Tgt Ion: 43 Resp: 1214

Ion Ratio Lower Upper

43 100

74 2.5 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

1000

800

600

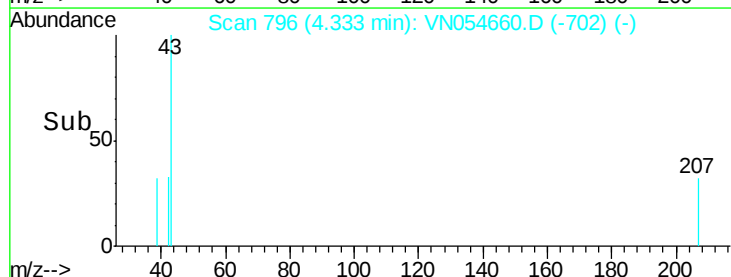
400

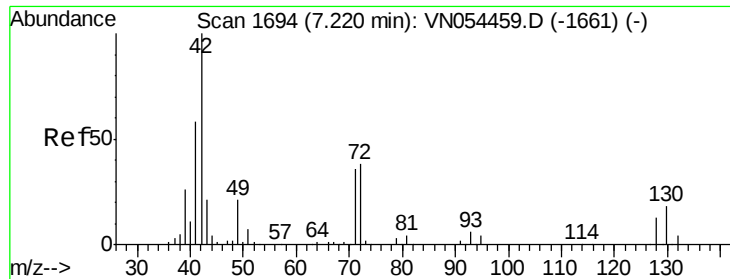
200

0

4.30 4.32 4.34 4.36

Time-->





#29

Tetrahydrofuran

Concen: 0.448 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.01 min

Lab File: VN054660.D

Acq: 25 Mar 2019 9:44

Instrument :

MSVOA_N

ClientSampleId :

VN0325MBL01

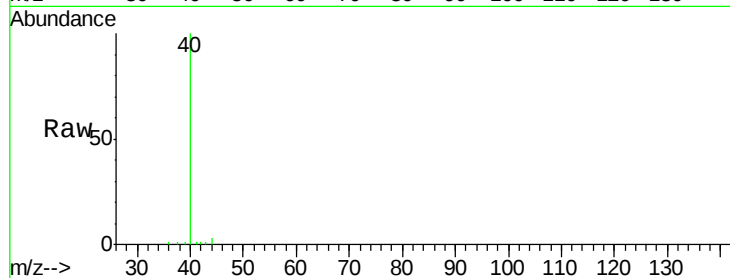
Tot Ion: 42 Resp: 748

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

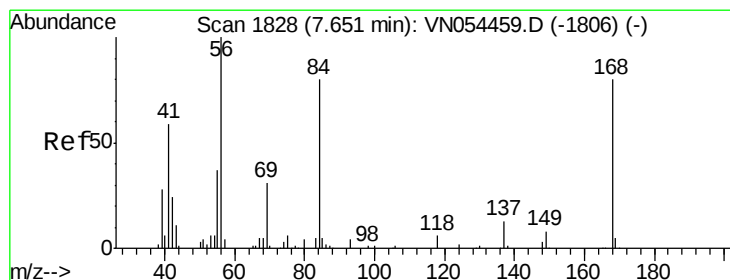
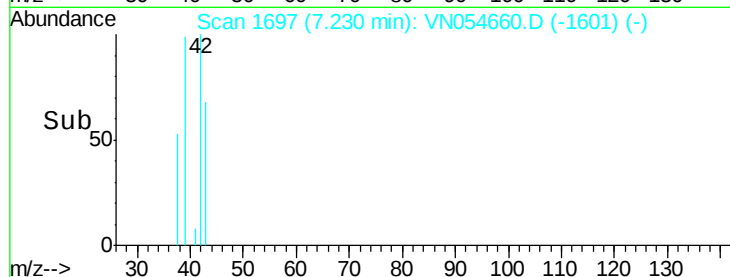
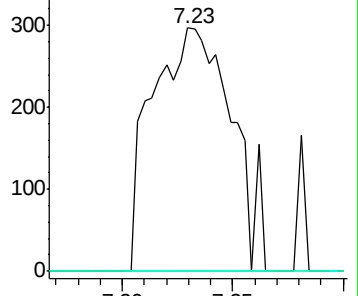
71 0.0 36.2 54.2#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054660.D

Acq: 25 Mar 2019 9:44

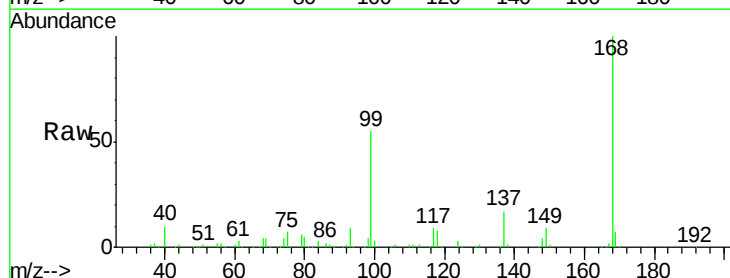
Tgt Ion: 56 Resp: 11947

Ion Ratio Lower Upper

56 100

69 152.6 27.8 41.6#

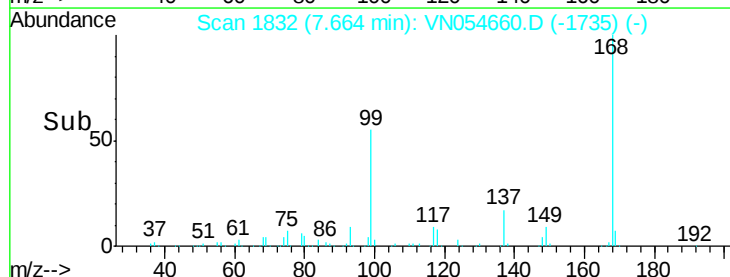
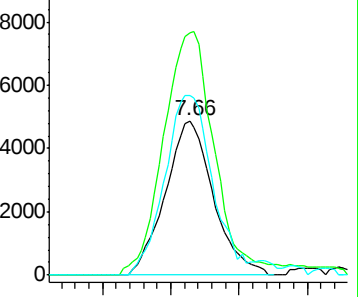
84 116.8 74.6 111.8#

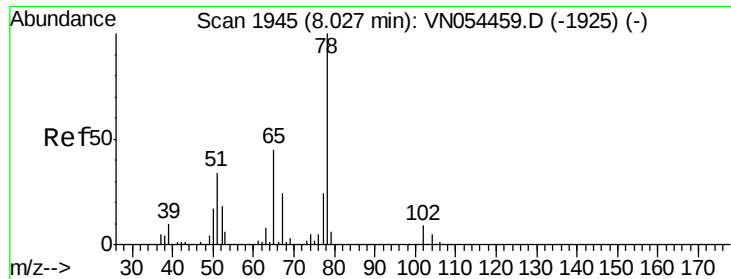


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

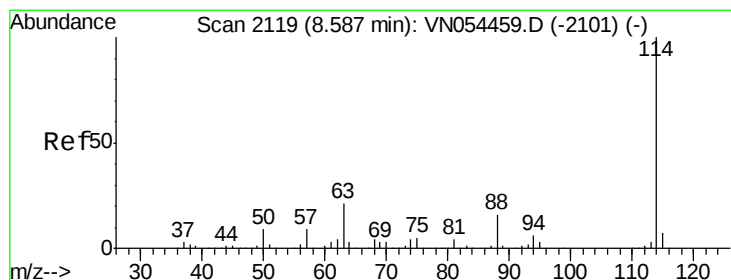
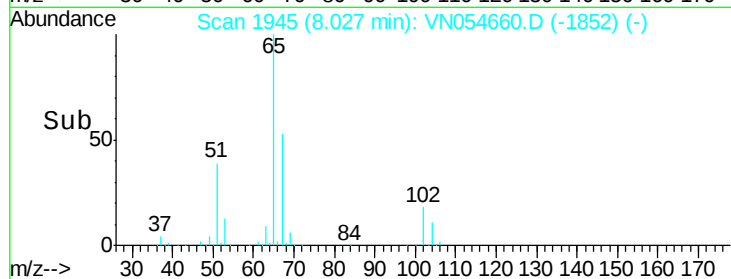
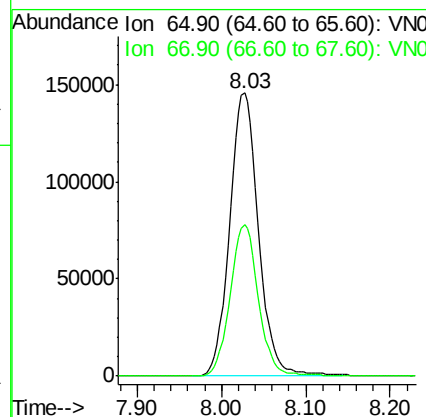
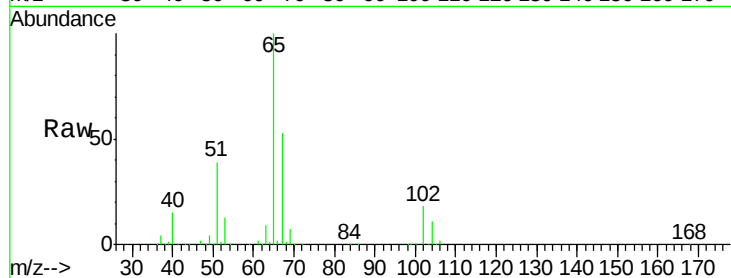




#33
 1,2-Dichloroethane-d4
 Concen: 51.823 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054660.D
 Acq: 25 Mar 2019 9:44

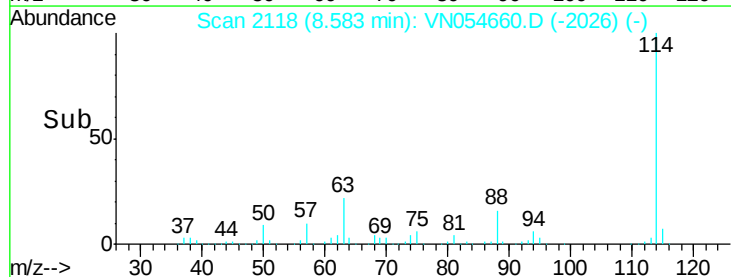
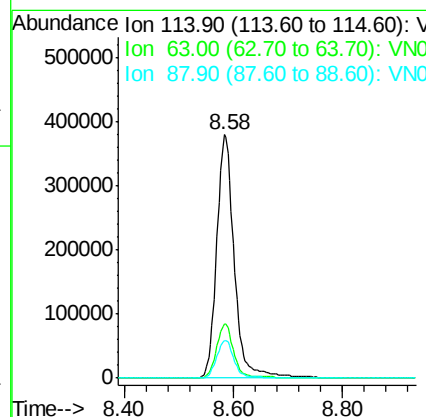
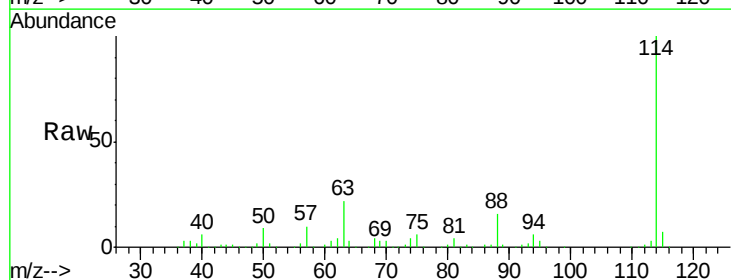
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0325MBL01

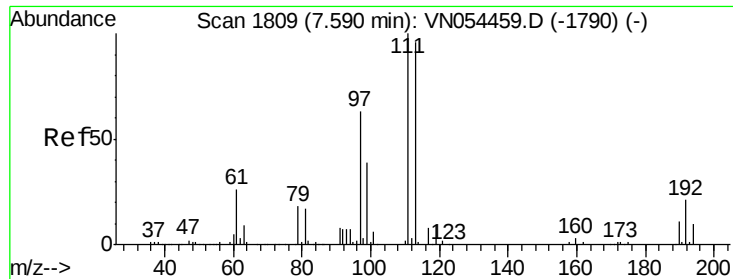
Tot Ion: 65 Resp: 345982
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054660.D
 Acq: 25 Mar 2019 9:44

Tgt Ion: 114 Resp: 849490
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 35.2
 88 15.6 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.279 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054660.D

Acq: 25 Mar 2019 9:44

Instrument :

MSVOA_N

ClientSampled :

VN0325MBL01

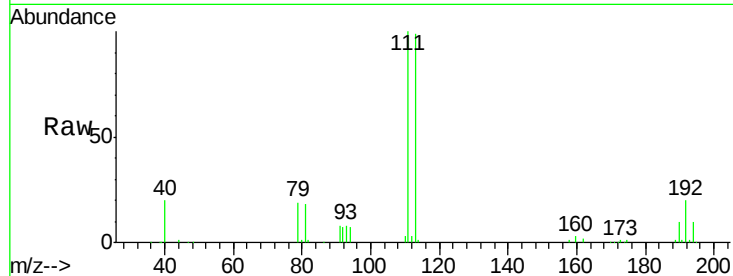
Tot Ion:113 Resp: 269696

Ion Ratio Lower Upper

113 100

111 101.4 82.2 123.4

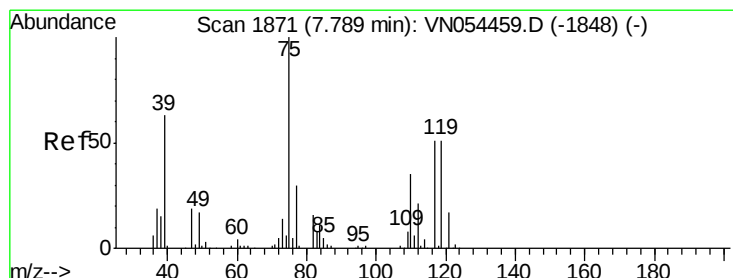
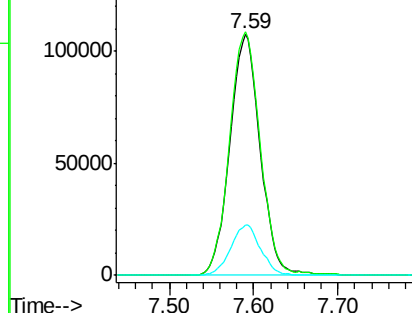
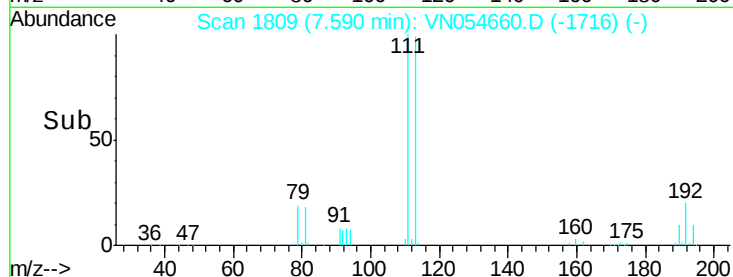
192 20.6 19.2 28.8



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



#36

1,1-Dichloropropene

Concen: 5.020 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN054660.D

Acq: 25 Mar 2019 9:44

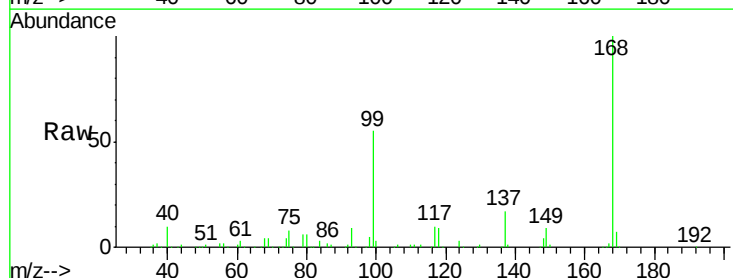
Tgt Ion: 75 Resp: 39873

Ion Ratio Lower Upper

75 100

110 9.4 19.1 57.5#

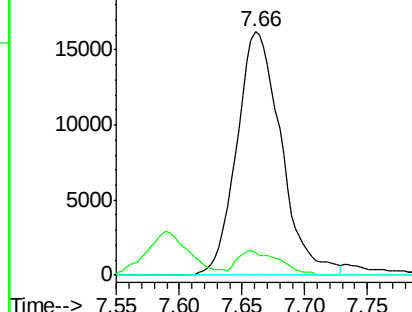
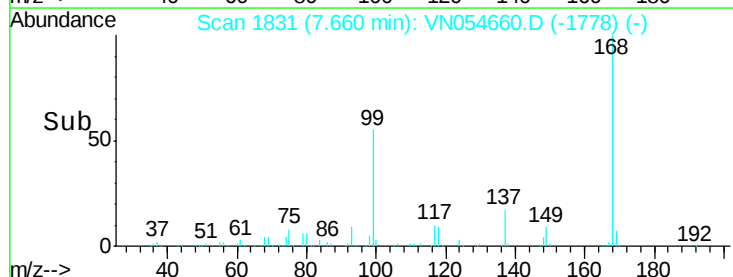
77 0.0 25.0 37.4#

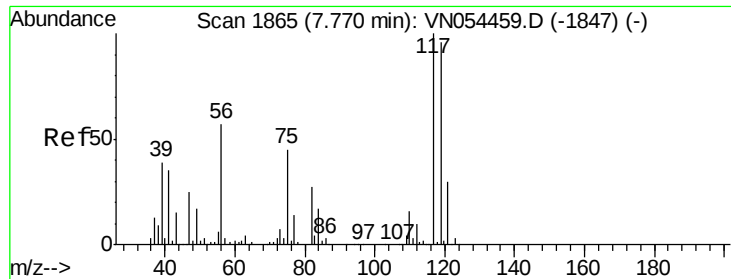


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.606 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054660.D

Acq: 25 Mar 2019 9:44

Instrument :

MSVOA_N

ClientSampled :

VN0325MBL01

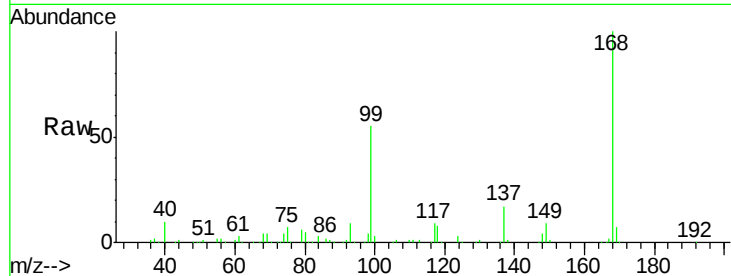
Tot Ion:117 Resp: 50990

Ion Ratio Lower Upper

117 100

119 4.5 76.3 114.5#

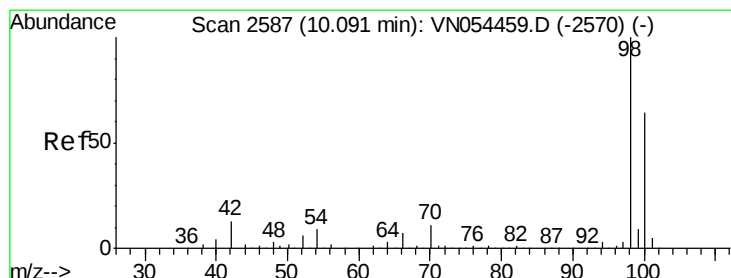
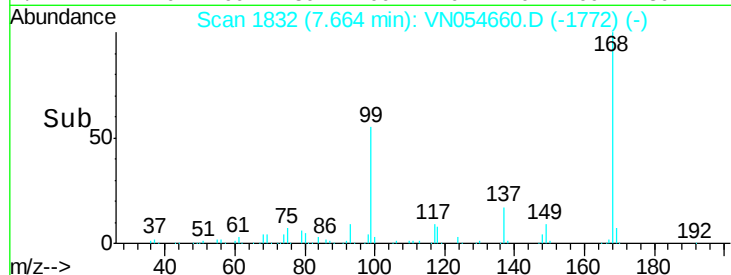
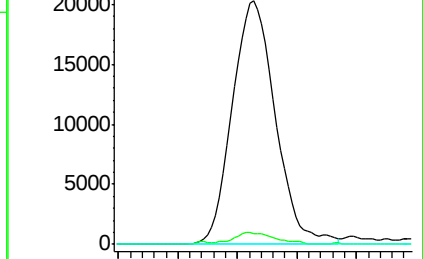
121 0.0 24.6 36.8#



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



#50

Toluene-d8

Concen: 49.438 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054660.D

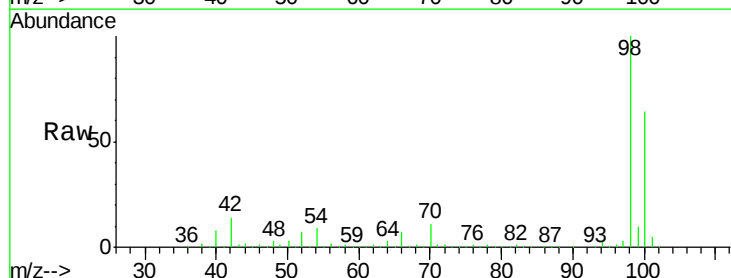
Acq: 25 Mar 2019 9:44

Tgt Ion: 98 Resp: 1017165

Ion Ratio Lower Upper

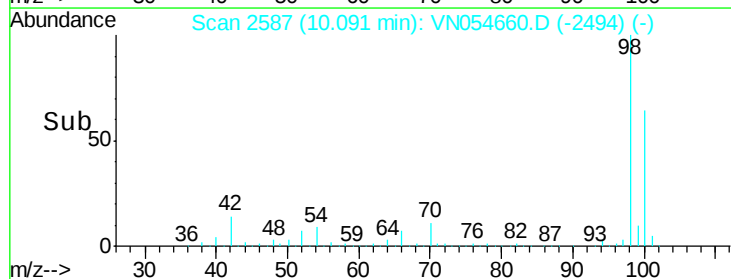
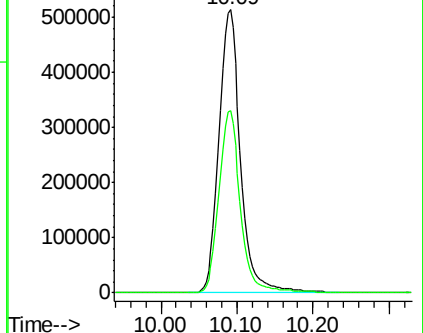
98 100

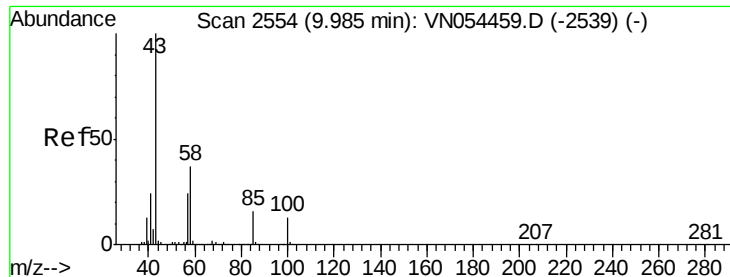
100 64.1 51.2 76.8



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: 0.313 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054660.D

Acq: 25 Mar 2019 9:44

Instrument :

MSVOA_N

ClientSampled :

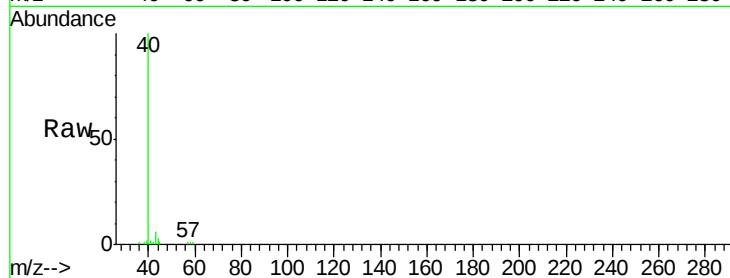
VN0325MBL01

Tot Ion: 43 Resp: 1657

Ion Ratio Lower Upper

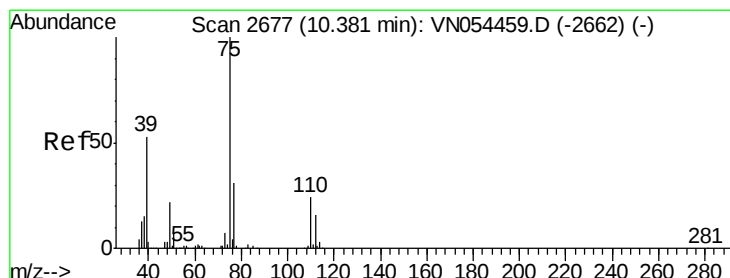
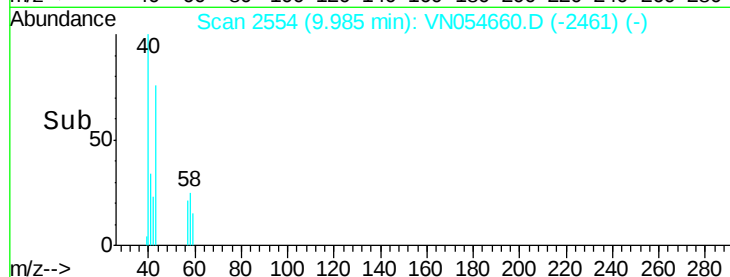
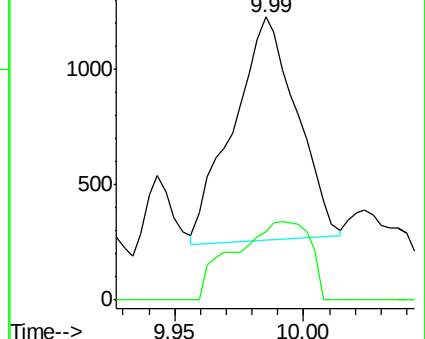
43 100

58 42.2 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#53

t-1,3-Dichloropropene

Concen: 2.251 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.29 min

Lab File: VN054660.D

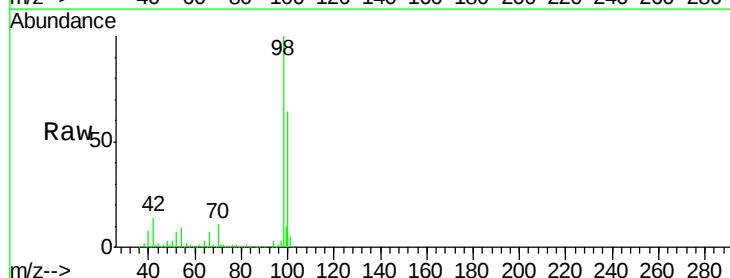
Acq: 25 Mar 2019 9:44

Tgt Ion: 75 Resp: 158

Ion Ratio Lower Upper

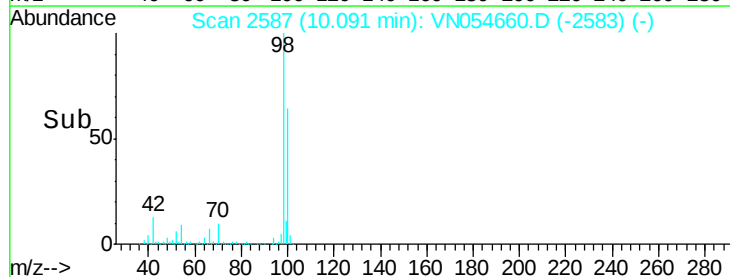
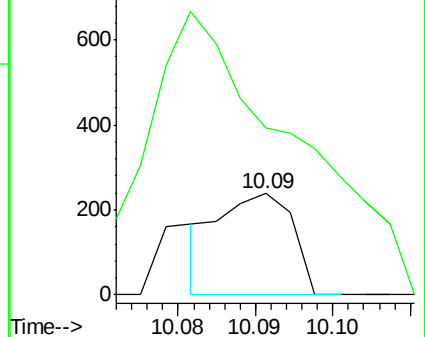
75 100

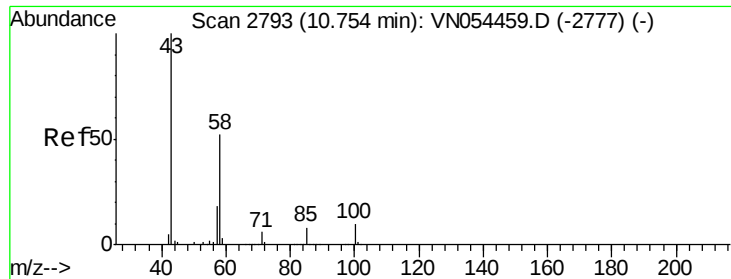
77 47.9 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

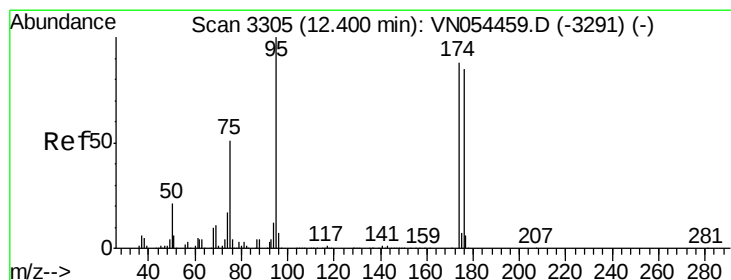
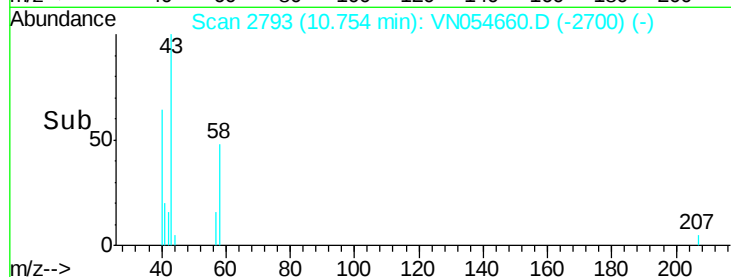
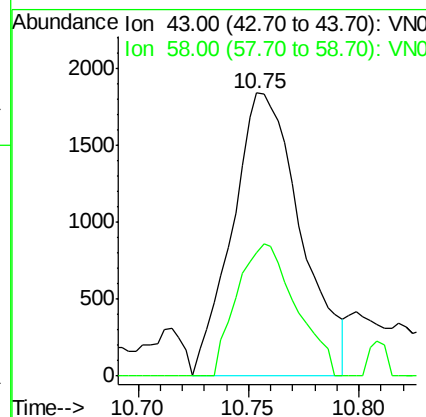
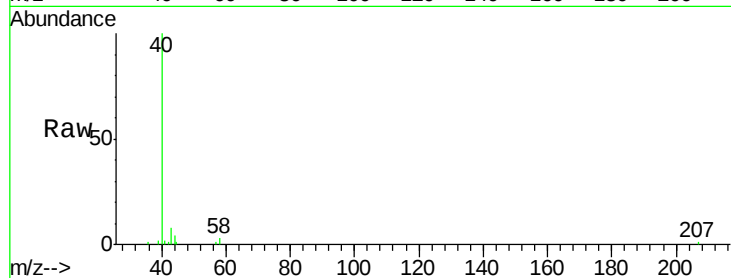




#59
2-Hexanone
Concen: 1.149 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054660.D
Acq: 25 Mar 2019 9:44

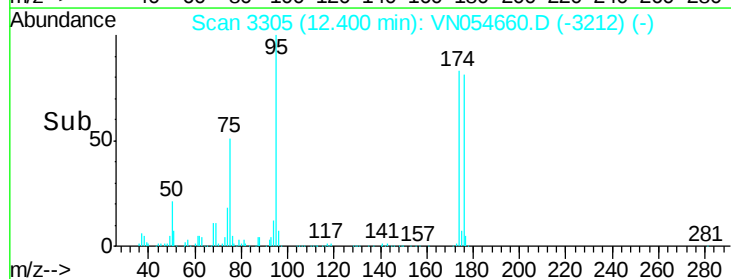
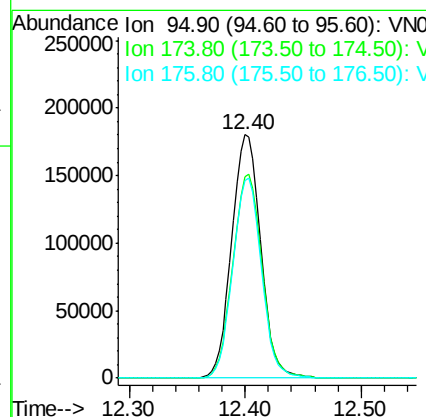
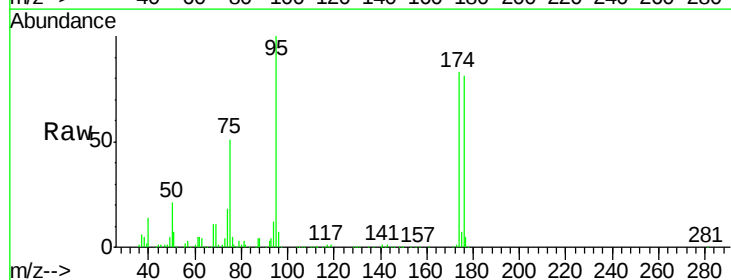
Instrument :
MSVOA_N
ClientSampleId :
VN0325MBL01

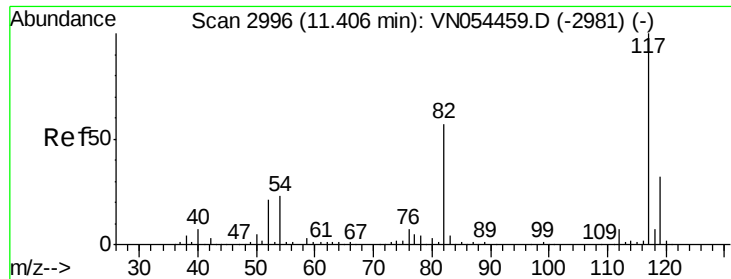
Tot Ion: 43 Resp: 3968
Ion Ratio Lower Upper
43 100
58 40.3 28.0 83.9



#62
4-Bromofluorobenzene
Concen: 44.484 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054660.D
Acq: 25 Mar 2019 9:44

Tgt Ion: 95 Resp: 311436
Ion Ratio Lower Upper
95 100
174 84.4 0.0 191.0
176 81.0 0.0 187.4

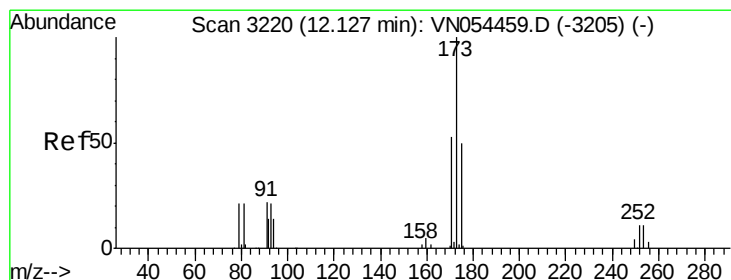
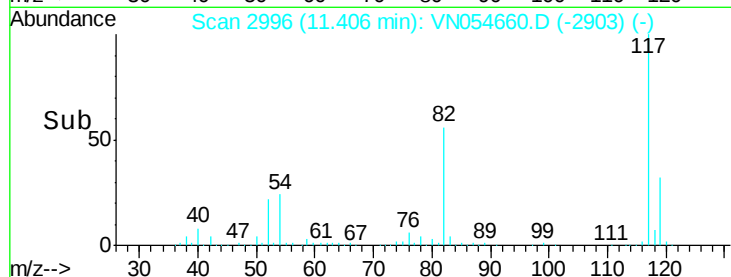
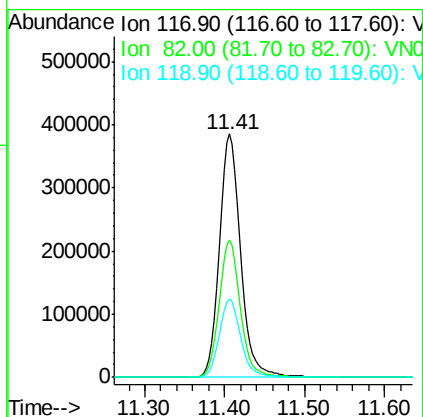
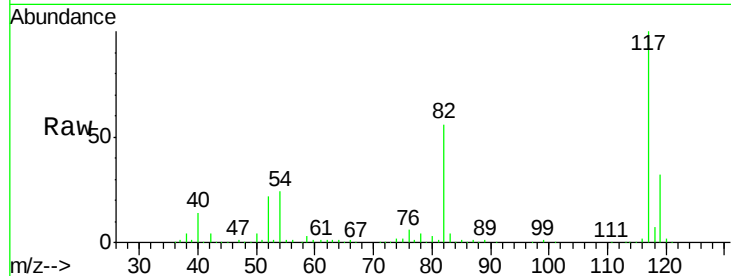




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054660.D
Acq: 25 Mar 2019 9:44

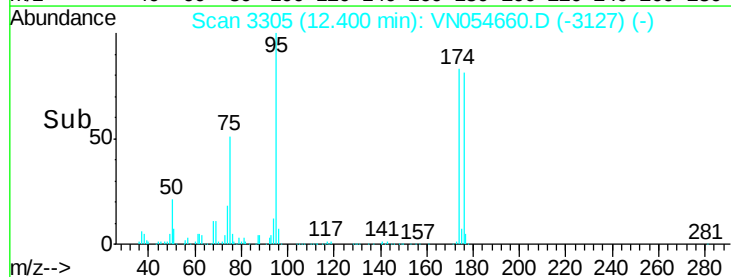
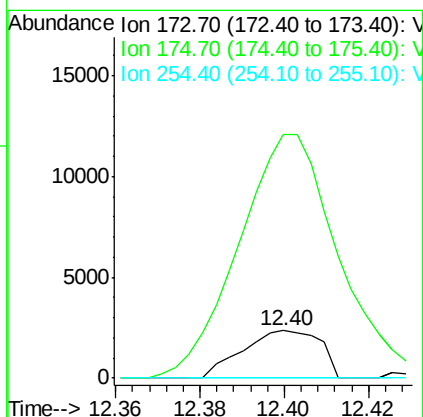
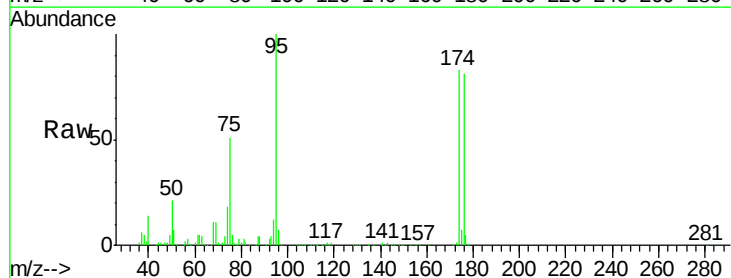
Instrument :
MSVOA_N
ClientSampleId :
VN0325MBL01

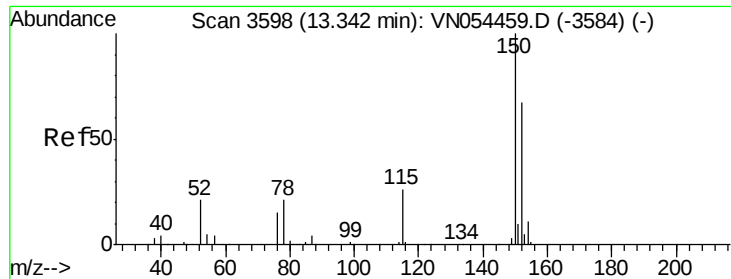
Tot Ion:117 Resp: 709926
Ion Ratio Lower Upper
117 100
82 56.4 40.0 60.0
119 32.3 25.8 38.6



#71
Bromoform
Concen: 3.024 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN054660.D
Acq: 25 Mar 2019 9:44

Tgt Ion:173 Resp: 3003
Ion Ratio Lower Upper
173 100
175 576.3 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054660.D

Acq: 25 Mar 2019 9:44

Instrument :

MSVOA_N

ClientSampleId :

VN0325MBL01

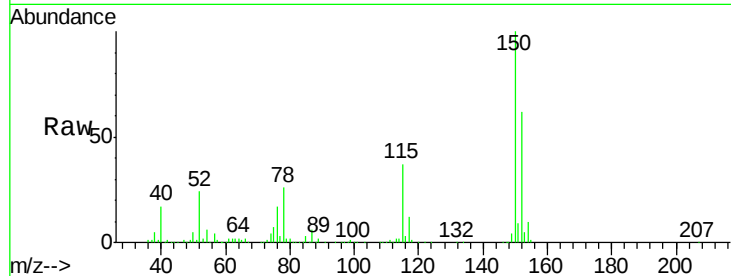
Tot Ion:152 Resp: 242139

Ion Ratio Lower Upper

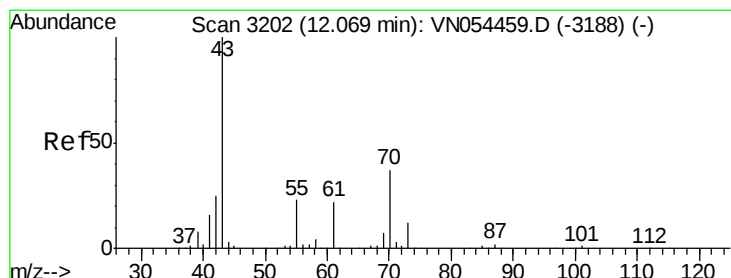
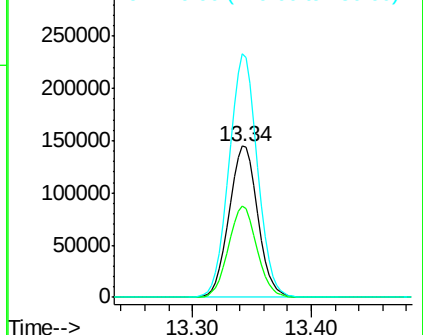
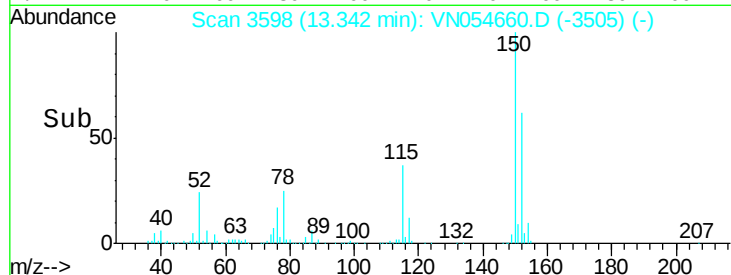
152 100

115 59.7 27.2 81.6

150 159.3 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.240 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054660.D

Acq: 25 Mar 2019 9:44

Tgt Ion: 43 Resp: 1346

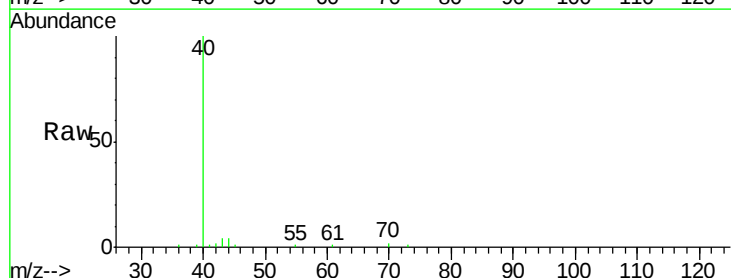
Ion Ratio Lower Upper

43 100

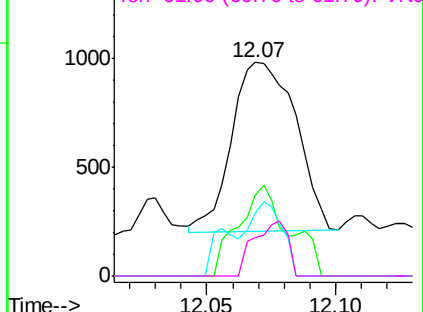
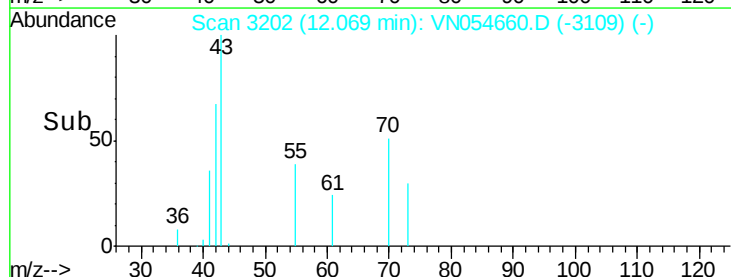
70 42.7 35.4 53.0

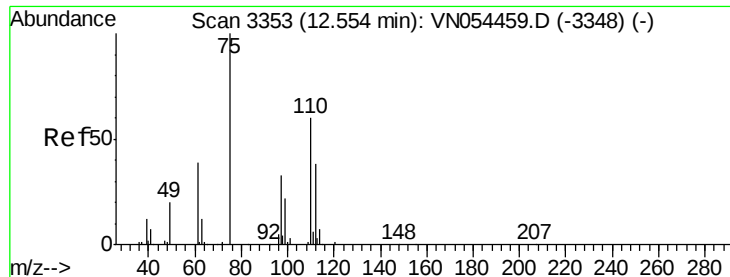
55 22.4 19.8 29.6

61 17.1 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 41.310 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054660.D

Acq: 25 Mar 2019 9:44

Instrument :

MSVOA_N

ClientSampleId :

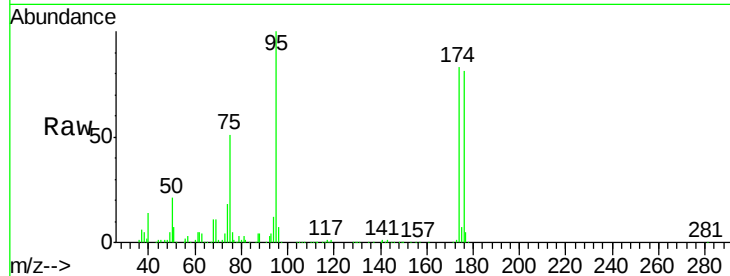
VN0325MBL01

Tot Ion: 75 Resp: 158727

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

100000

80000

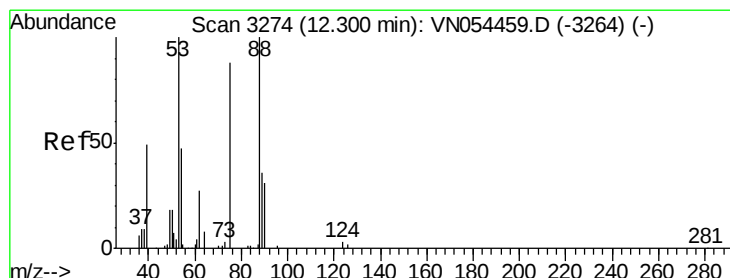
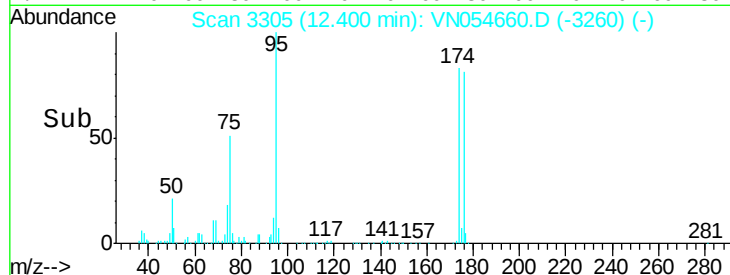
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 136.547 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054660.D

Acq: 25 Mar 2019 9:44

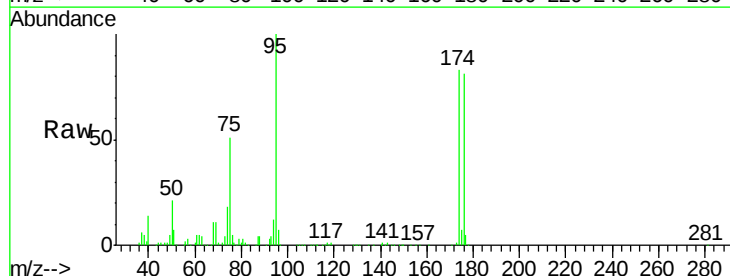
Tgt Ion: 75 Resp: 158727

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



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

120000

100000

80000

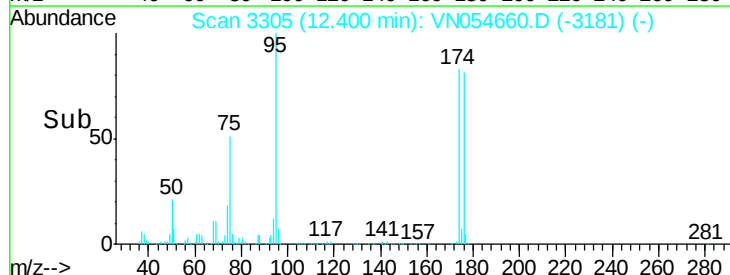
60000

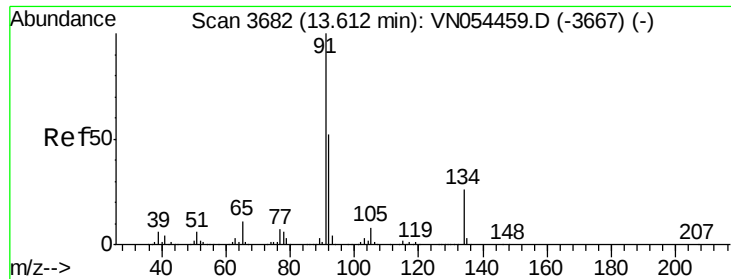
40000

20000

0

Time--> 12.30 12.40 12.50

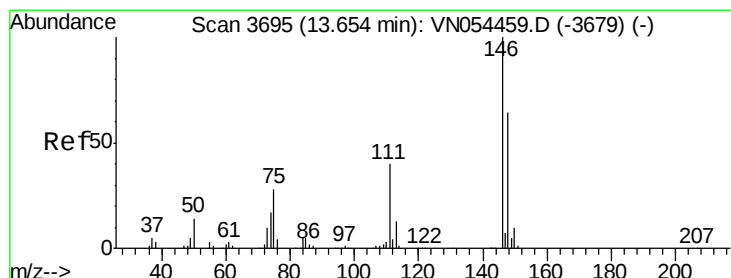
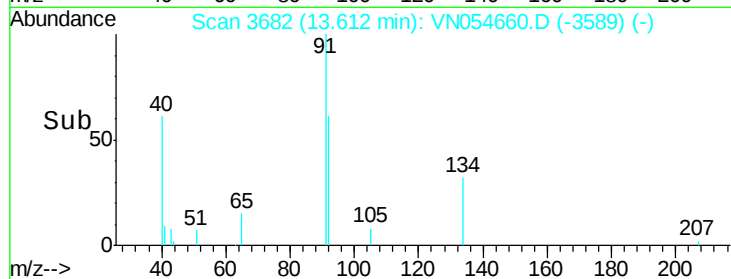
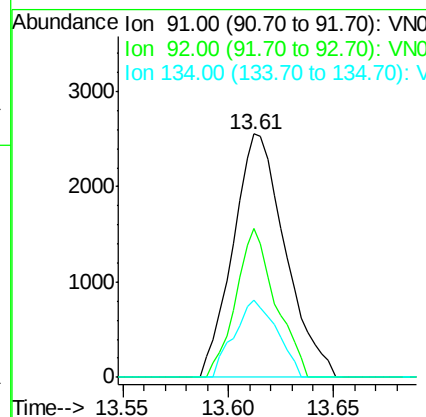
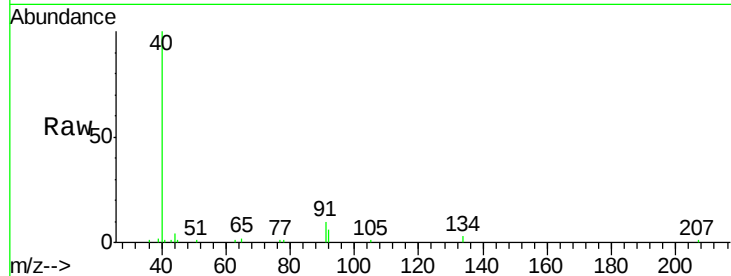




#89
n-Butylbenzene
Concen: 0.361 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054660.D
Acq: 25 Mar 2019 9:44

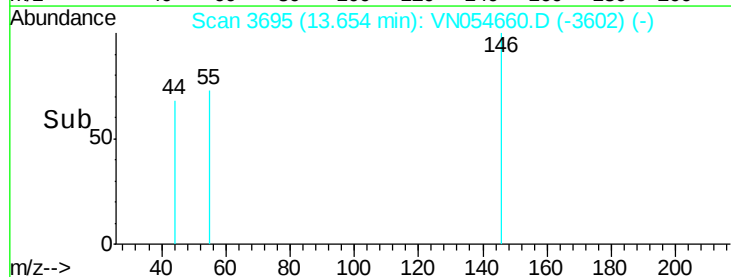
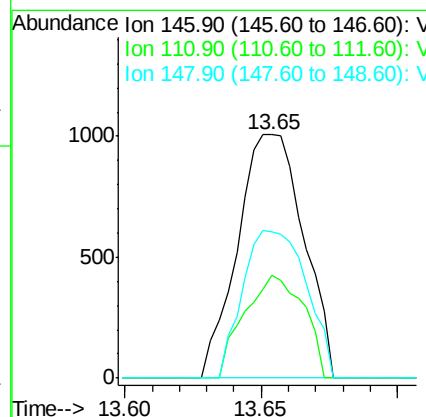
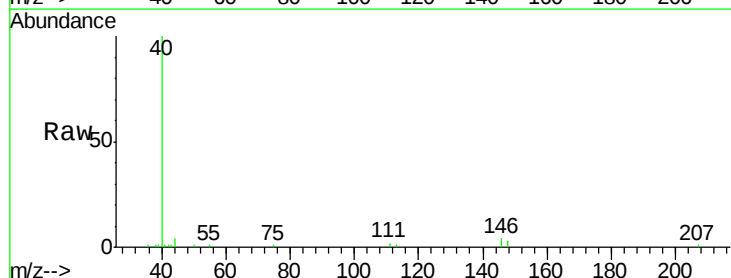
Instrument :
MSVOA_N
ClientSampleId :
VN0325MBL01

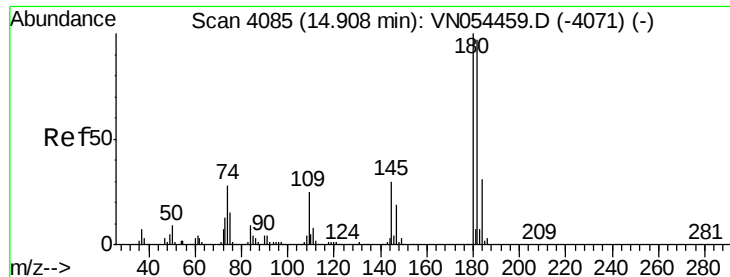
Tot Ion: 91 Resp: 4387
Ion Ratio Lower Upper
91 100
92 46.4 26.2 78.6
134 25.9 14.3 42.9



#91
1,2-Dichlorobenzene
Concen: 0.217 ug/l
RT: 13.65 min Scan# 3695
Delta R.T. -0.00 min
Lab File: VN054660.D
Acq: 25 Mar 2019 9:44

Tgt Ion: 146 Resp: 1689
Ion Ratio Lower Upper
146 100
111 38.2 19.1 57.3
148 58.6 32.4 97.0

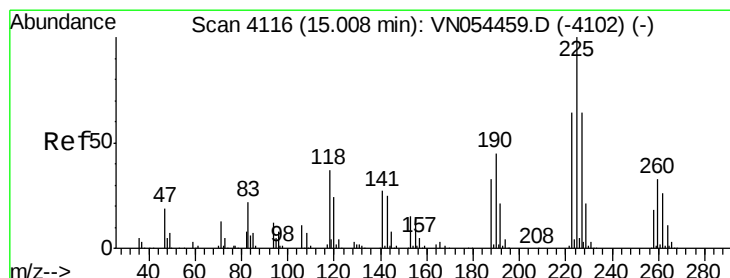
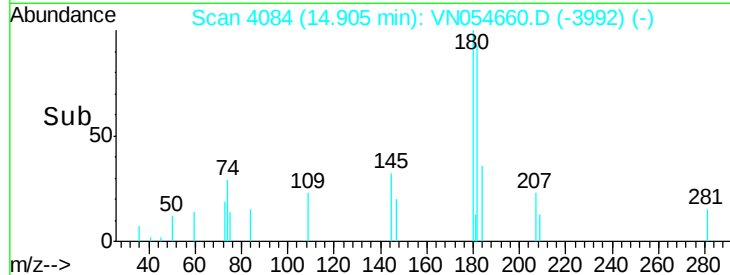
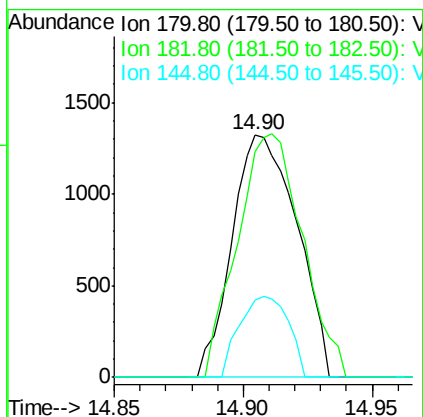
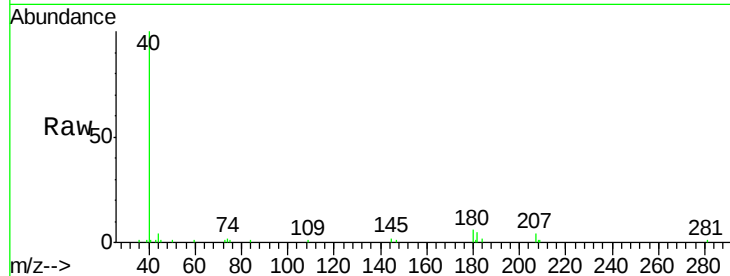




#93
 1,2,4-Trichlorobenzene
 Concen: 0.598 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN054660.D
 Acq: 25 Mar 2019 9:44

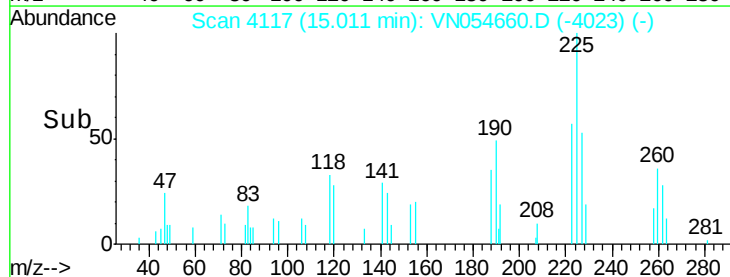
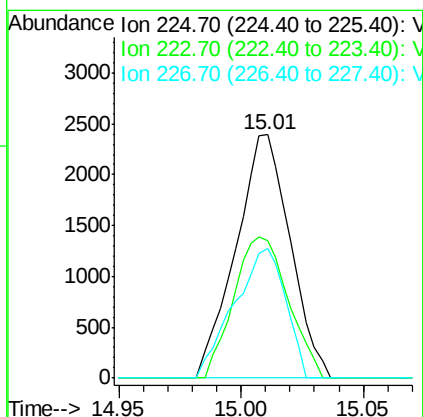
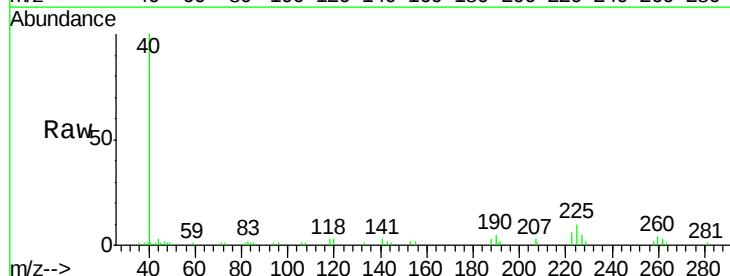
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0325MBL01

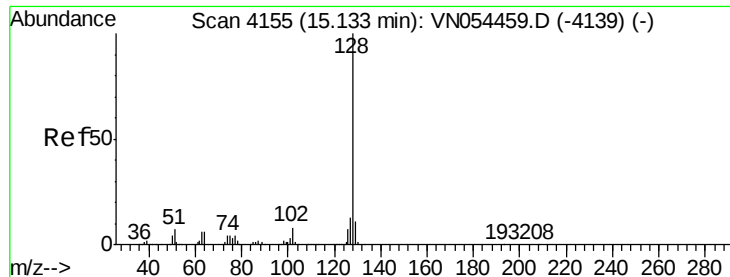
Tot Ion:180 Resp: 2316
 Ion Ratio Lower Upper
 180 100
 182 100.6 48.0 144.2
 145 25.3 14.2 42.8



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054660.D
 Acq: 25 Mar 2019 9:44

Tgt Ion:225 Resp: 3688
 Ion Ratio Lower Upper
 225 100
 223 58.1 31.1 93.5
 227 50.4 31.9 95.9





#95

Naphthalene

Concen: 0.895 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054660.D

Acq: 25 Mar 2019 9:44

Instrument :

MSVOA_N

ClientSampled :

VN0325MBL01

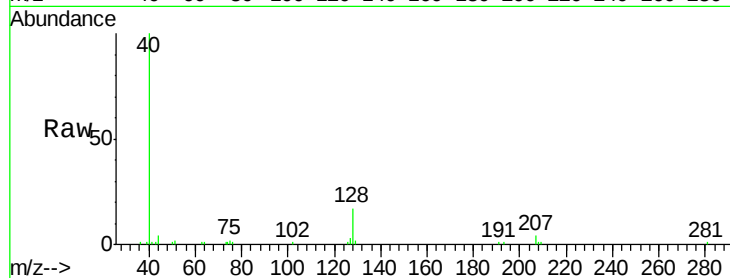
Tot Ion:128 Resp: 7732

Ion Ratio Lower Upper

128 100

127 15.0 10.1 15.1

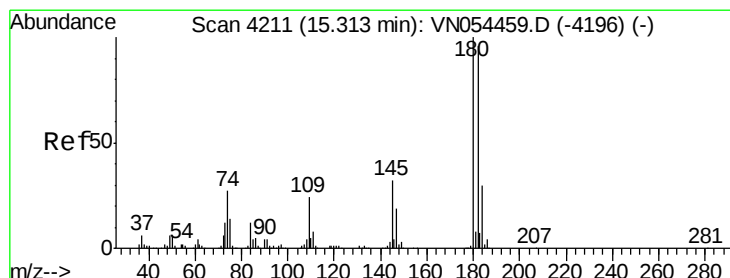
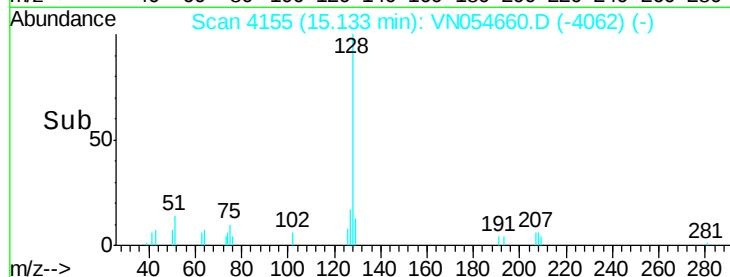
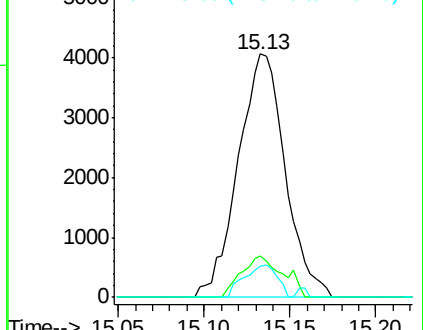
129 9.4 8.7 13.1



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: 0.792 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN054660.D

Acq: 25 Mar 2019 9:44

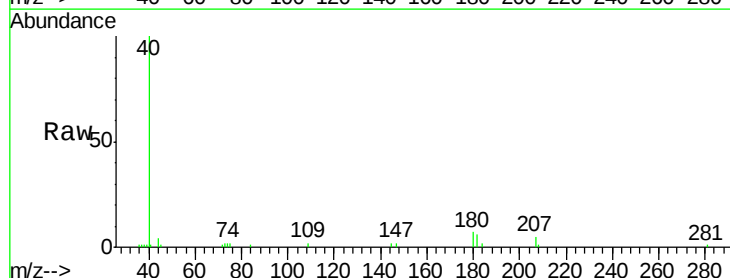
Tgt Ion:180 Resp: 3054

Ion Ratio Lower Upper

180 100

182 79.8 47.5 142.6

145 24.5 14.8 44.3



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

