

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041819\
 Data File : VN055116.D
 Acq On : 18 Apr 2019 10:46
 Operator : JC/SP
 Sample : PB118998TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 19 01:27:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	404188	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	639139	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	545551	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	167734	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	265174	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
35) Dibromofluoromethane	7.59	113	211187	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
50) Toluene-d8	10.09	98	778882	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
62) 4-Bromofluorobenzene	12.40	95	220302	44.33	ug/l	0.00
Spiked Amount			Recovery	=	88.66%	

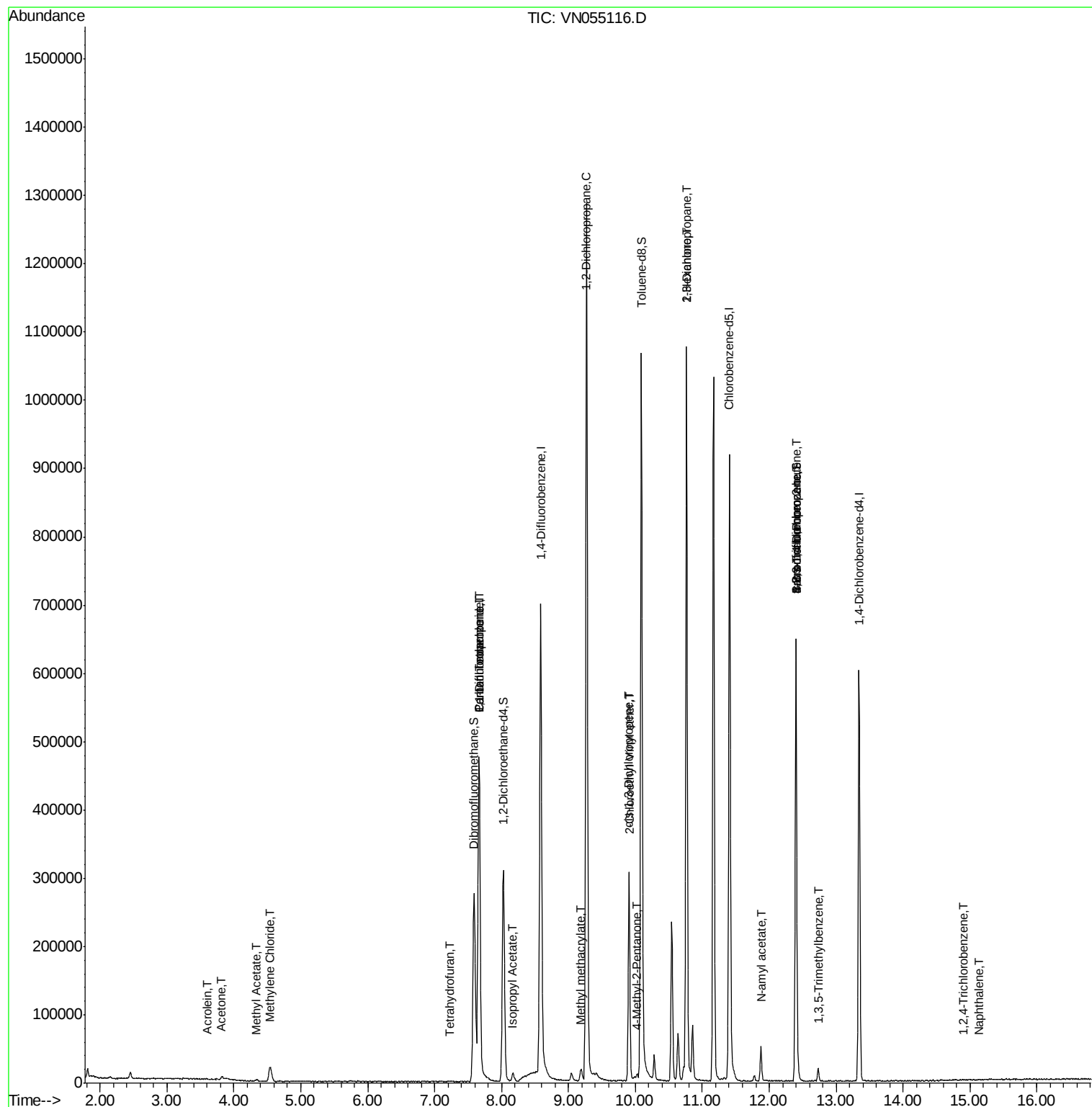
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	247	0.679	ug/l #	12
16) Acetone	3.82	43	5554	3.809	ug/l #	80
18) Methyl Acetate	4.34	43	4508	0.641	ug/l	96
20) Methylene Chloride	4.54	84	15065	2.939	ug/l	89
29) Tetrahydrofuran	7.24	42	832	0.583	ug/l #	50
31) Cyclohexane	7.66	56	8455	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	30618	5.082	ug/l #	49
38) Carbon Tetrachloride	7.66	117	37990	6.627	ug/l #	16
43) Isopropyl Acetate	8.17	43	14759	1.953	ug/l	94
45) 1,2-Dichloropropane	9.27	63	1445	0.285	ug/l #	44
48) Methyl methacrylate	9.18	41	7762	2.072	ug/l #	17
51) 4-Methyl-2-Pentanone	10.02	43	9491	2.174	ug/l #	39
54) cis-1,3-Dichloropropene	9.90	75	49648	7.702	ug/l #	64
57) 1,3-Dichloropropane	10.77	76	9804	1.437	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.92	63	63	10.766	ug/l #	50
59) 2-Hexanone	10.76	43	167699	61.146	ug/l #	54
71) Bromoform	12.40	173	2191	0.946	ug/l #	1
74) N-amyl acetate	11.88	43	17152	4.094	ug/l #	57
76) 1,2,3-Trichloropropane	12.40	75	112237	37.211	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	9467	0.788	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	112237	148.800	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.90	180	370	2.813	ug/l #	80
95) Naphthalene	15.14	128	719	3.192	ug/l #	69

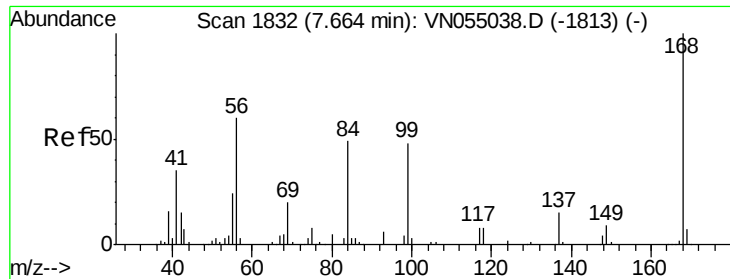
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055116.D

Acq: 18 Apr 2019 10:46

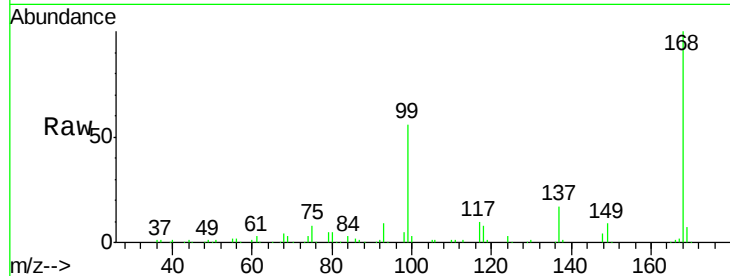
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 404188

Ion Ratio Lower Upper

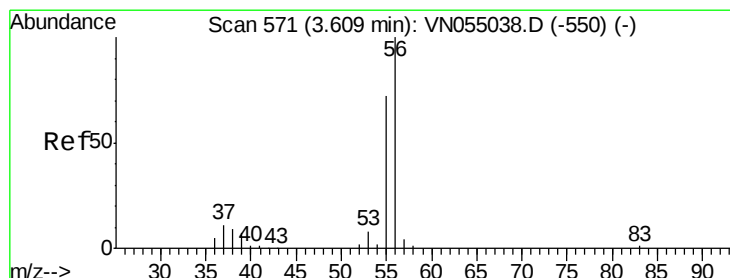
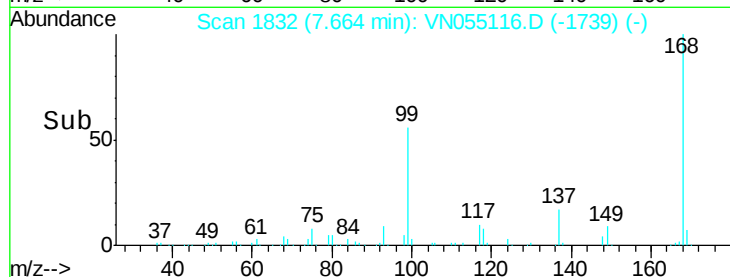
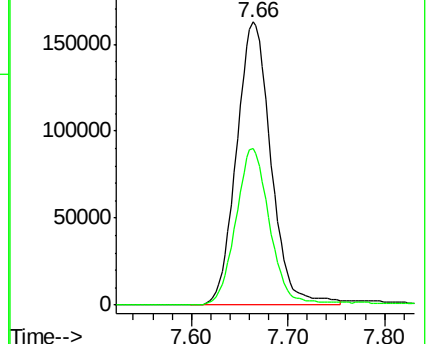
168 100

99 55.6 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#13

Acrolein

Concen: 0.679 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN055116.D

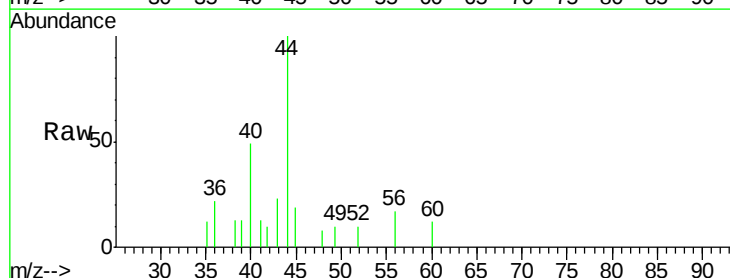
Acq: 18 Apr 2019 10:46

Tgt Ion: 56 Resp: 247

Ion Ratio Lower Upper

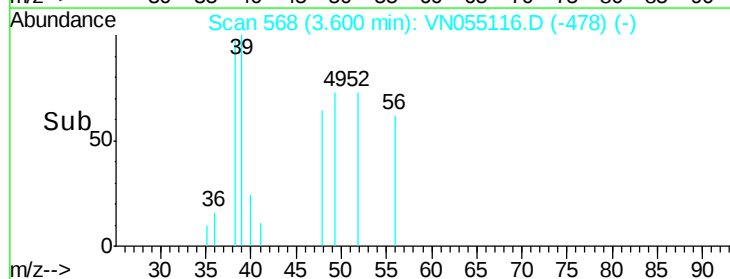
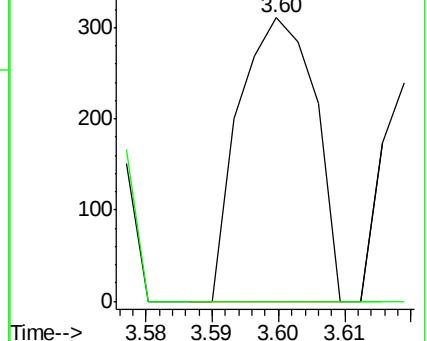
56 100

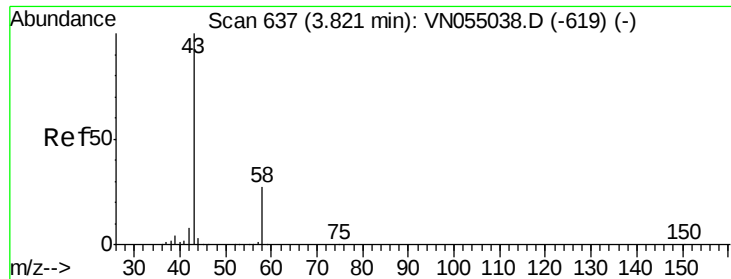
55 0.0 59.5 89.3#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 3.809 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN055116.D

Acq: 18 Apr 2019 10:46

Instrument :

MSVOA_N

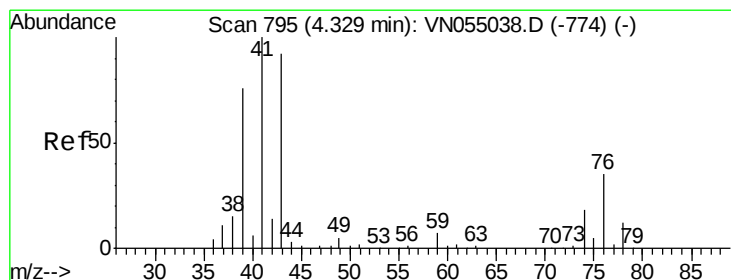
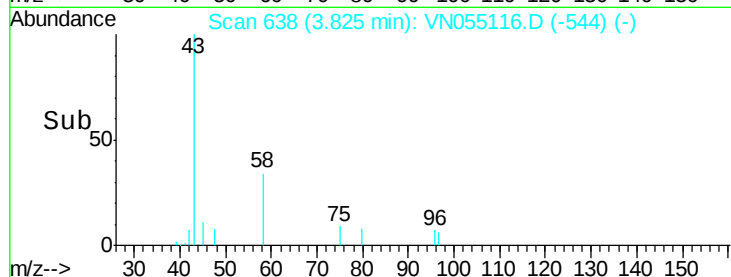
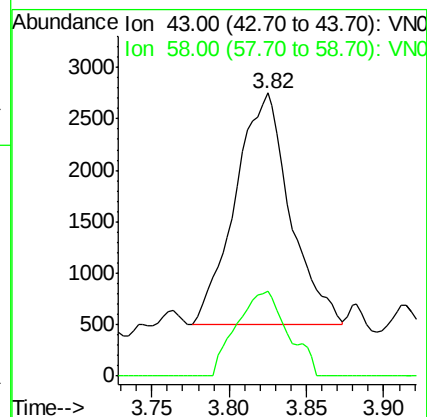
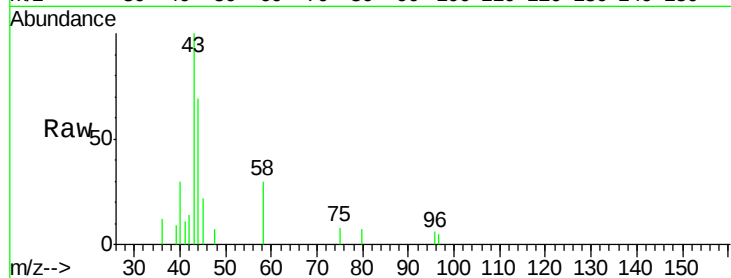
ClientSampled :

Tot Ion: 43 Resp: 5554

Ion Ratio Lower Upper

43 100

58 36.5 20.9 31.3#



#18

Methyl Acetate

Concen: 0.641 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055116.D

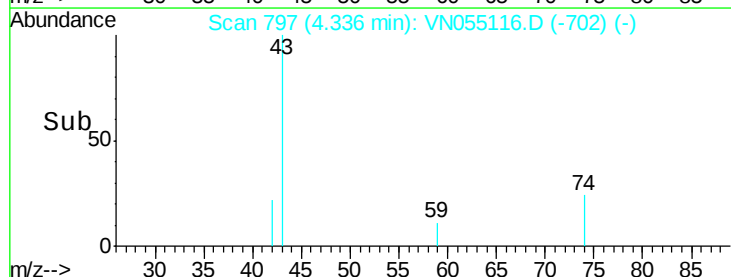
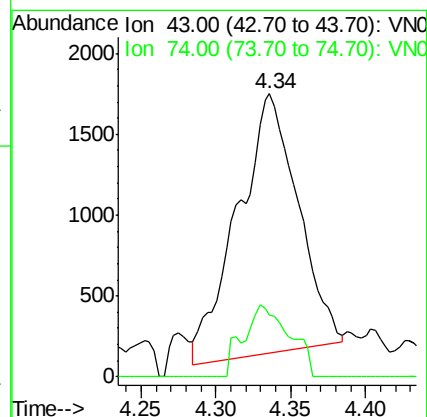
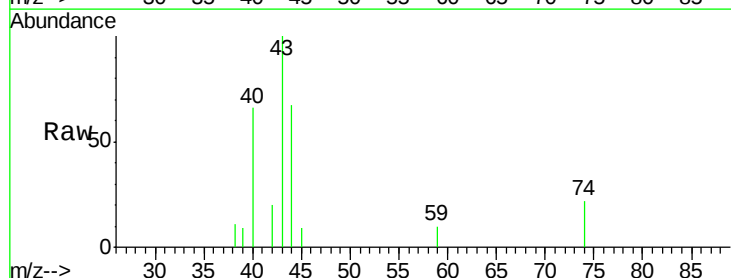
Acq: 18 Apr 2019 10:46

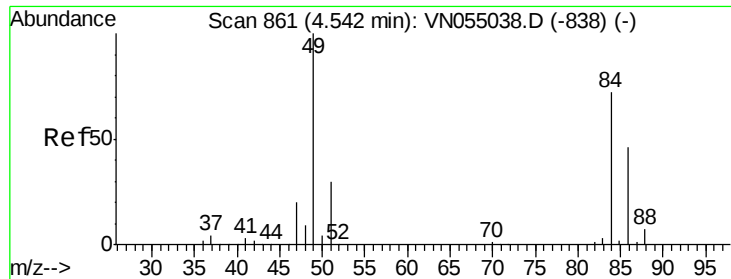
Tgt Ion: 43 Resp: 4508

Ion Ratio Lower Upper

43 100

74 18.3 16.1 24.1

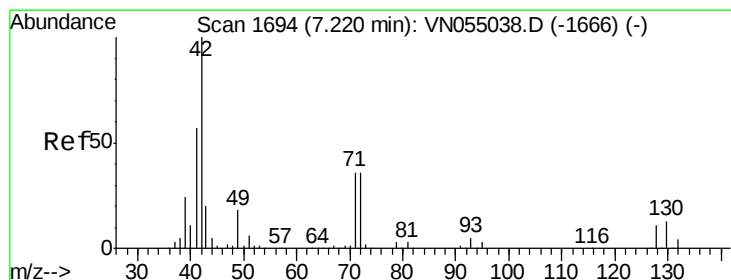
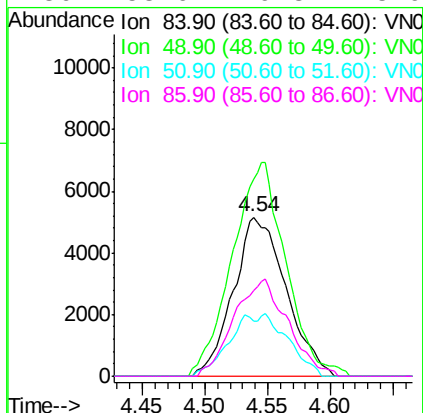
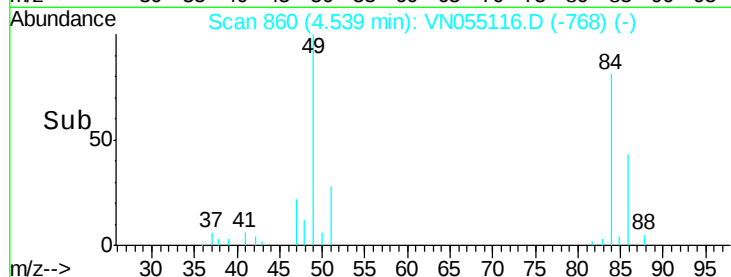
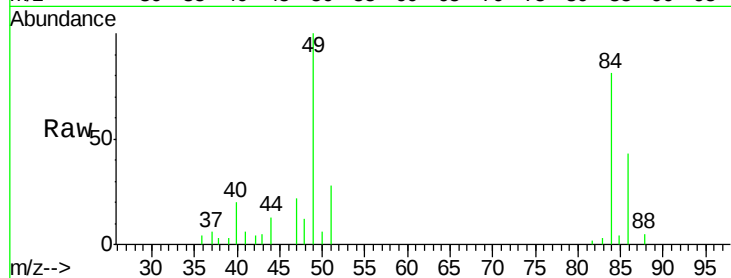




#20
Methvlene Chloride
Concen: 2.939 ug/l
RT: 4.54 min Scan# 860
Delta R.T. -0.00 min
Lab File: VN055116.D
Acq: 18 Apr 2019 10:46

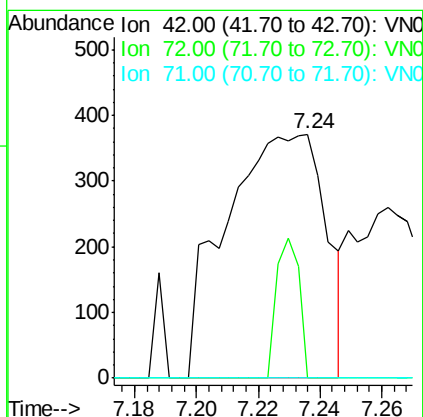
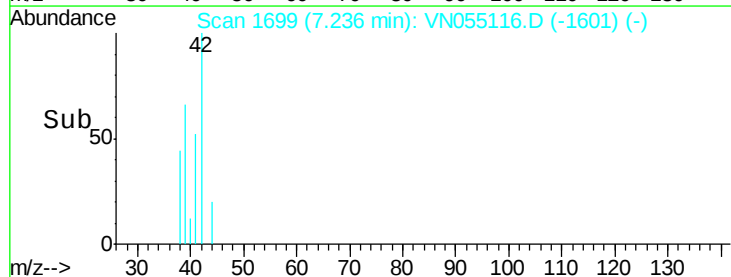
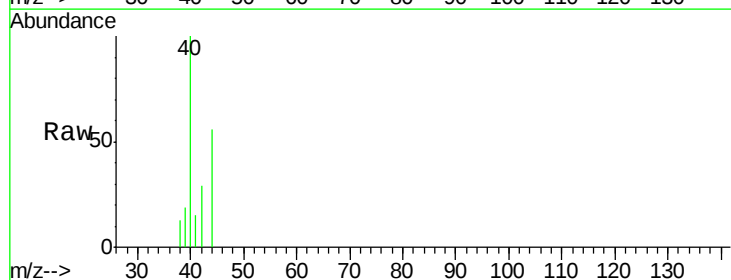
Instrument :
MSVOA_N
ClientSampled :

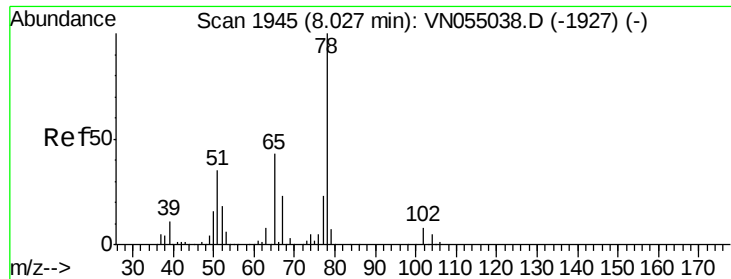
Tot Ion: 84 Resp: 15065
Ion Ratio Lower Upper
84 100
49 123.8 109.4 164.2
51 34.3 32.2 48.4
86 53.6 49.3 73.9



#29
Tetrahydrofuran
Concen: 0.583 ug/l
RT: 7.24 min Scan# 1699
Delta R.T. 0.02 min
Lab File: VN055116.D
Acq: 18 Apr 2019 10:46

Tgt Ion: 42 Resp: 832
Ion Ratio Lower Upper
42 100
72 12.9 29.4 44.0#
71 0.0 27.8 41.6#

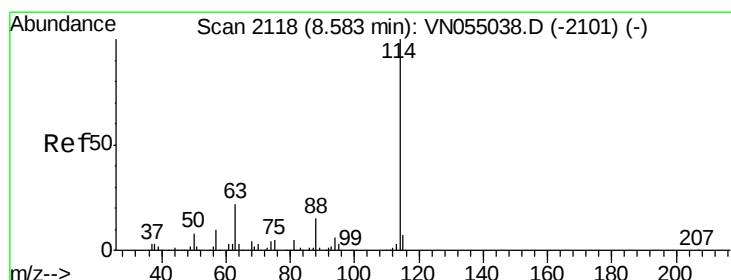
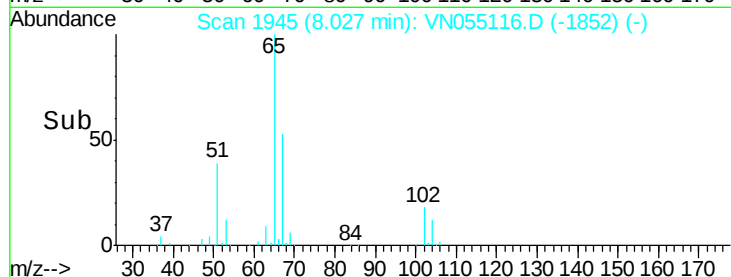
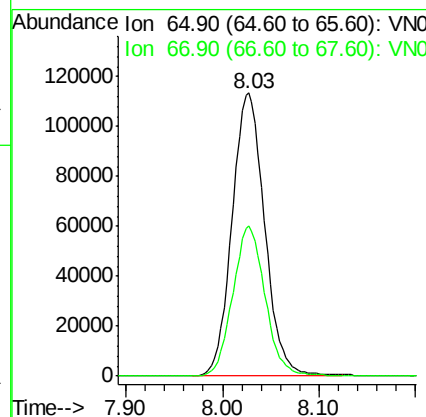
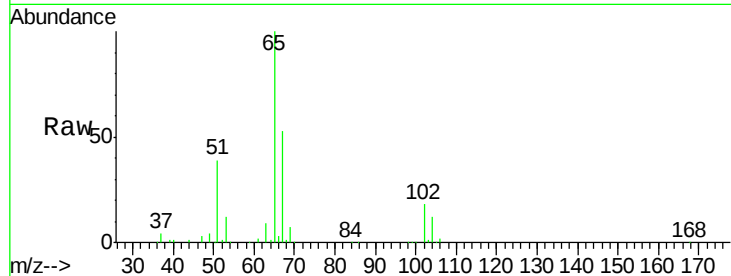




#33
 1,2-Dichloroethane-d4
 Concen: 49.356 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055116.D
 Acq: 18 Apr 2019 10:46

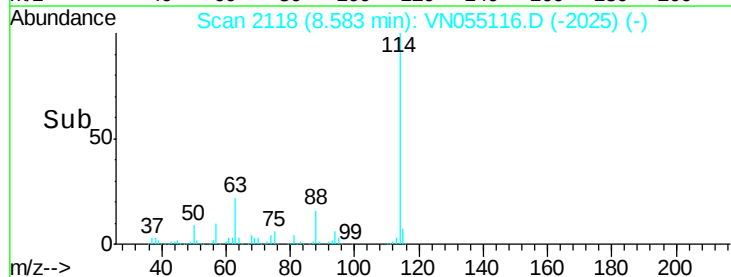
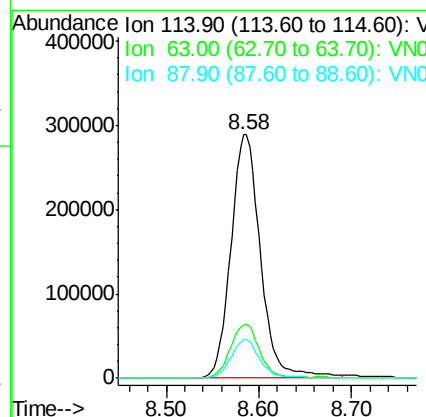
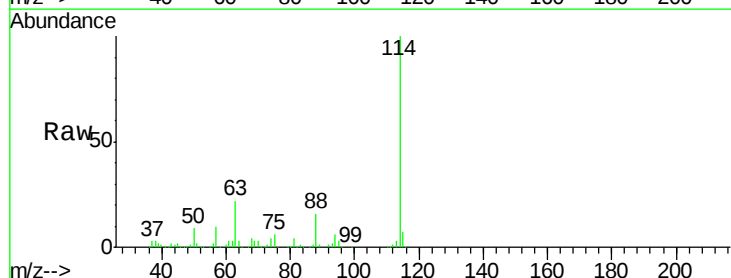
Instrument :
 MSVOA_N
 ClientSampleId :

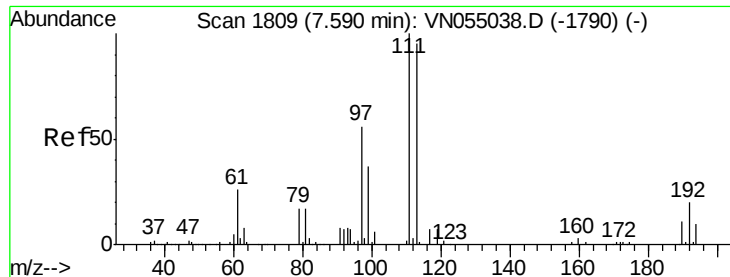
Tot Ion: 65 Resp: 265174
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055116.D
 Acq: 18 Apr 2019 10:46

Tgt Ion: 114 Resp: 639139
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 45.2
 88 16.0 0.0 31.8

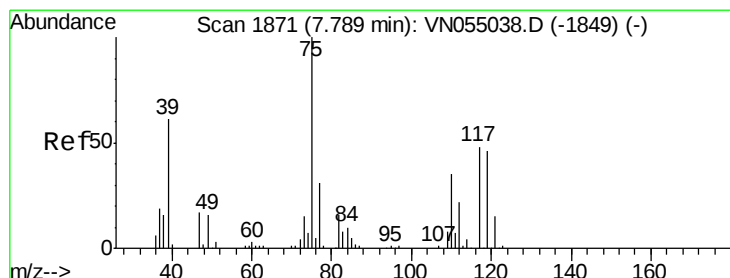
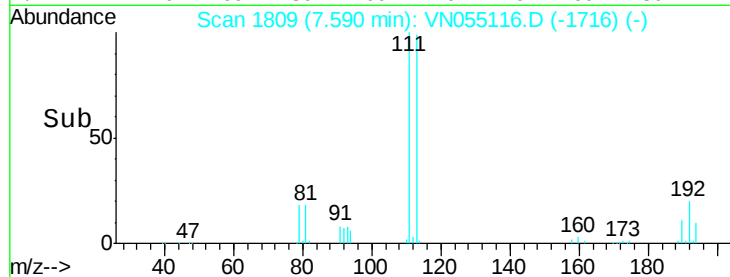
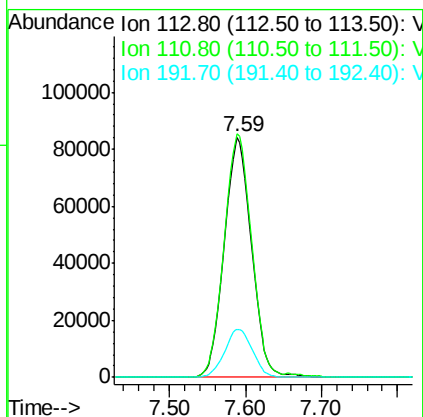
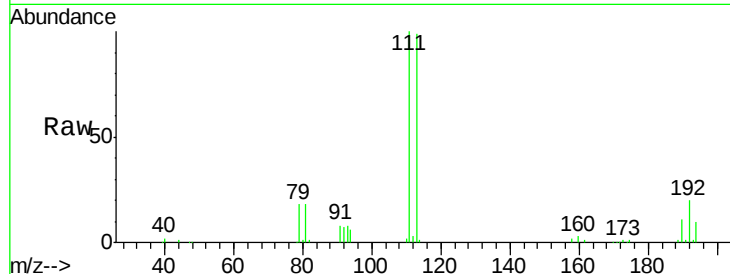




#35
 Dibromofluoromethane
 Concen: 49.442 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055116.D
 Acq: 18 Apr 2019 10:46

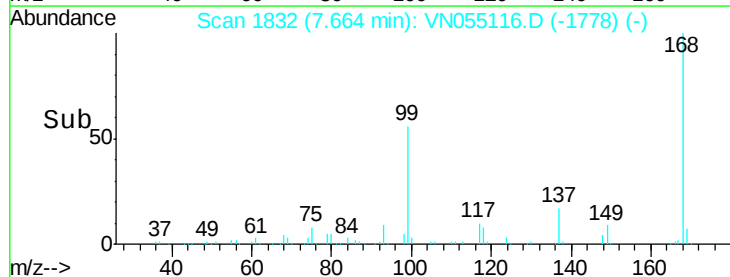
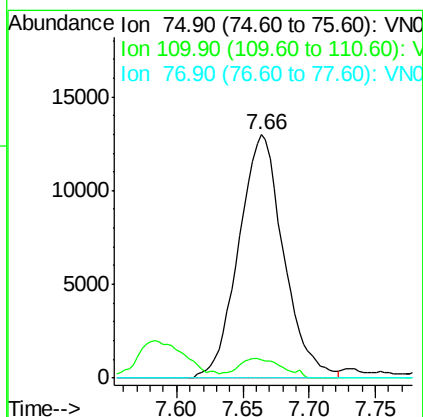
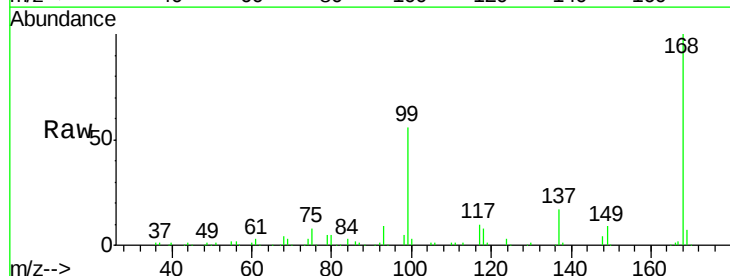
Instrument :
 MSVOA_N
 ClientSampled :

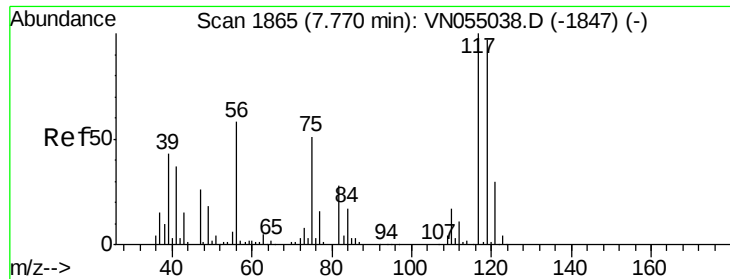
Tot Ion:113 Resp: 211187
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.1 123.1
 192 20.5 16.5 24.7



#36
 1,1-Dichloropropene
 Concen: 5.082 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055116.D
 Acq: 18 Apr 2019 10:46

Tgt Ion: 75 Resp: 30618
 Ion Ratio Lower Upper
 75 100
 110 7.8 17.5 52.5#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.627 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055116.D

Acq: 18 Apr 2019 10:46

Instrument :

MSVOA_N

ClientSampleId :

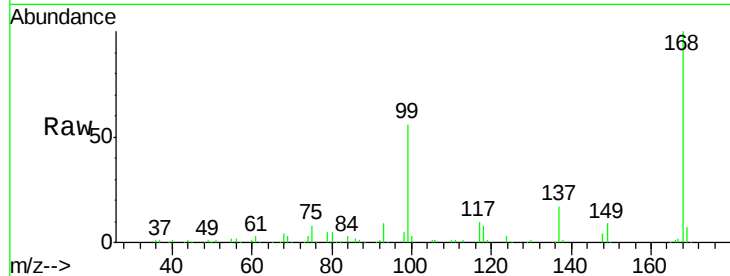
Tot Ion:117 Resp: 37990

Ion Ratio Lower Upper

117 100

119 5.2 76.3 114.5#

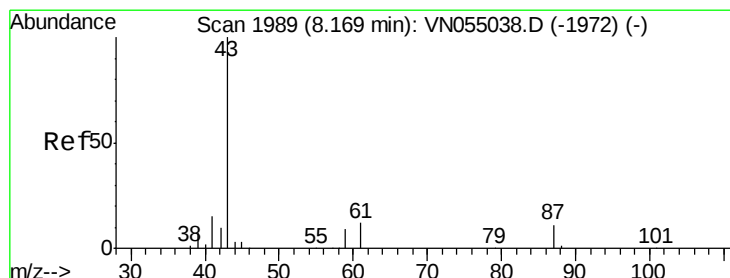
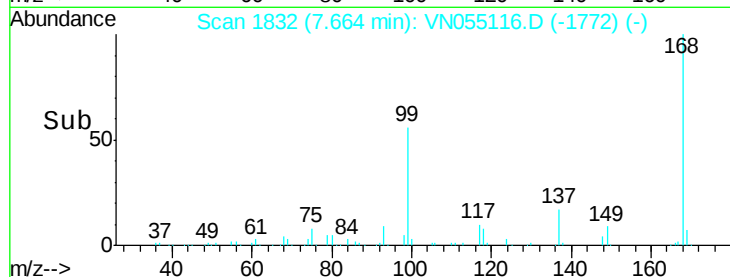
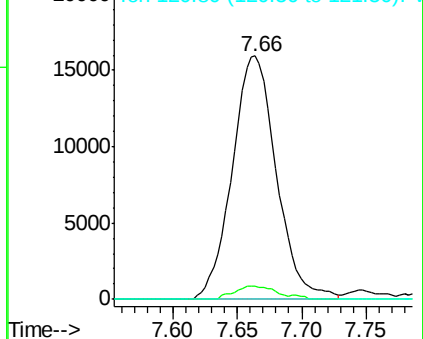
121 0.0 23.9 35.9#



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



#43

Isopropyl Acetate

Concen: 1.953 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN055116.D

Acq: 18 Apr 2019 10:46

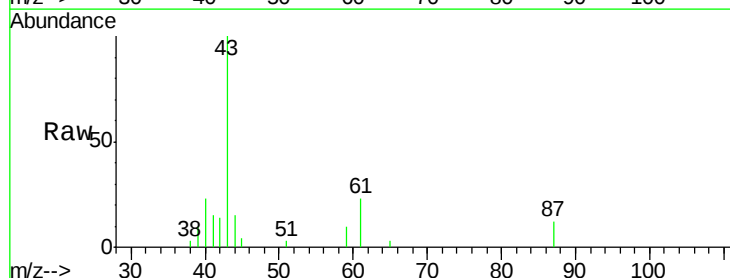
Tgt Ion: 43 Resp: 14759

Ion Ratio Lower Upper

43 100

61 20.9 14.3 21.5

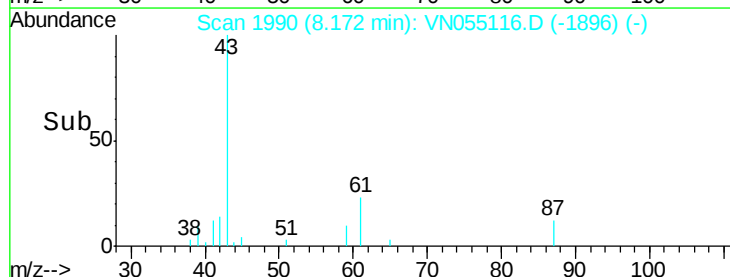
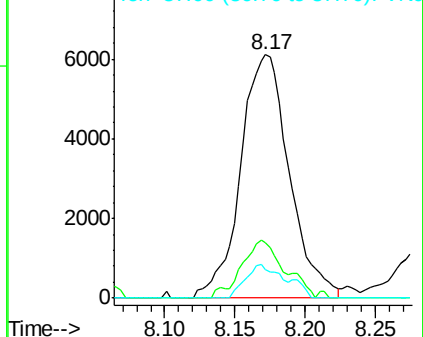
87 9.4 8.6 13.0

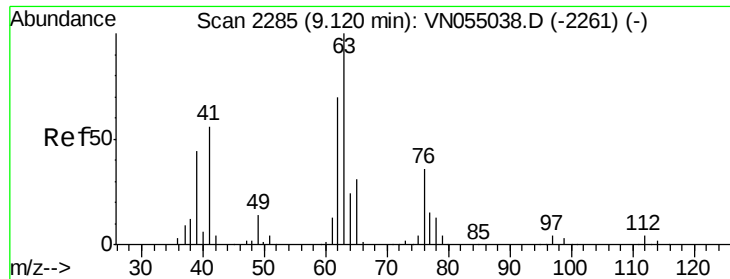


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.285 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN055116.D

Acq: 18 Apr 2019 10:46

Instrument :

MSVOA_N

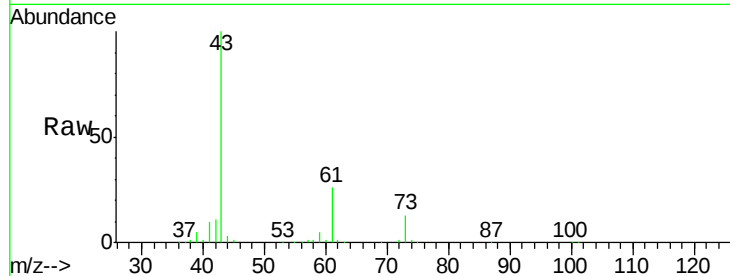
ClientSampleId :

Tot Ion: 63 Resp: 1445

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.27

800

600

400

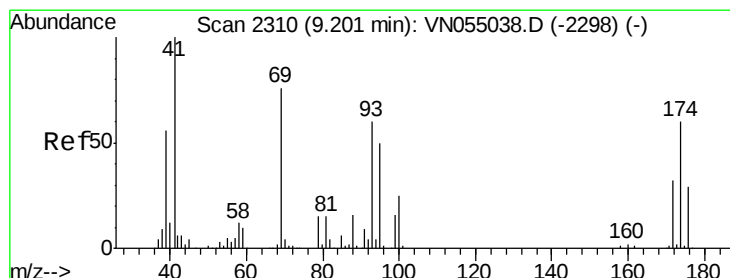
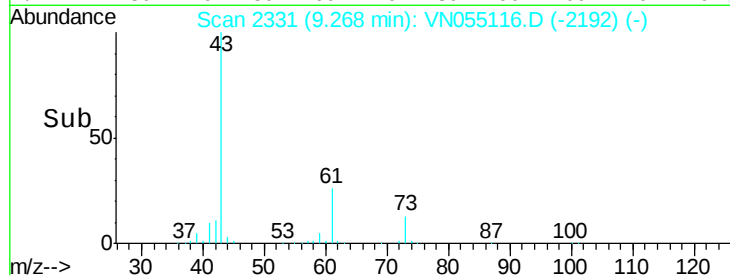
200

0

9.25

9.30

Time-->



#48

Methyl methacrylate

Concen: 2.072 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN055116.D

Acq: 18 Apr 2019 10:46

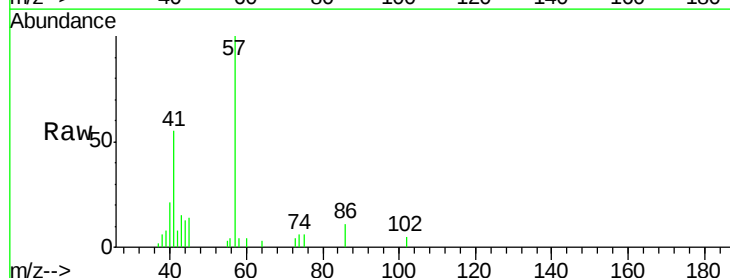
Tgt Ion: 41 Resp: 7762

Ion Ratio Lower Upper

41 100

69 0.0 60.5 90.7#

39 0.0 43.9 65.9#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

50000

40000

30000

20000

10000

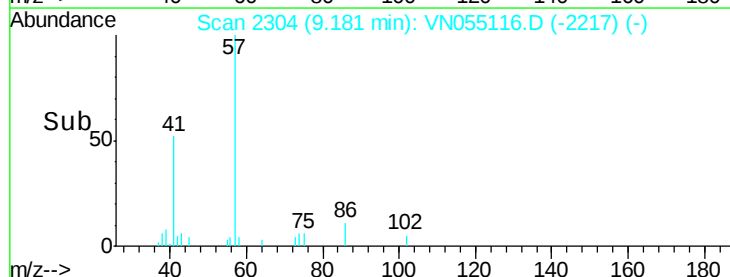
0

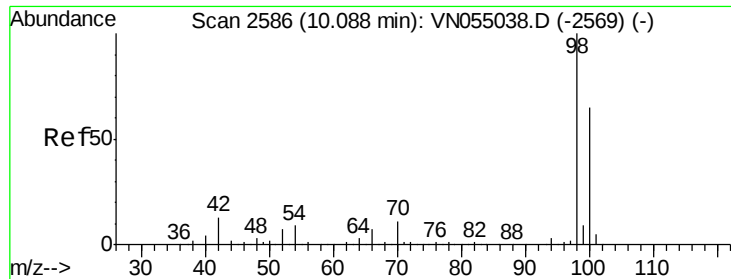
9.10

9.15

9.20

Time-->





#50

Toluene-d8

Concen: 50.948 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN055116.D

Acq: 18 Apr 2019 10:46

Instrument :

MSVOA_N

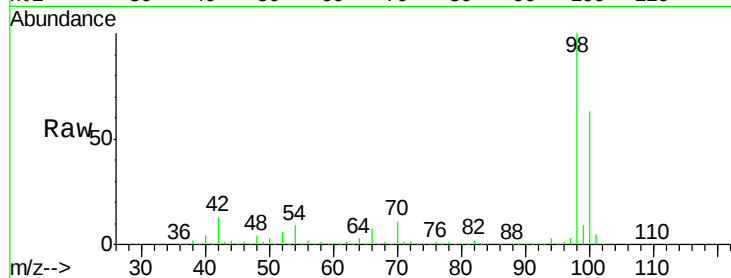
ClientSampled :

Tot Ion: 98 Resp: 778882

Ion Ratio Lower Upper

98 100

100 63.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN055038.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN055038.D (-2569) (-)

10.09

400000

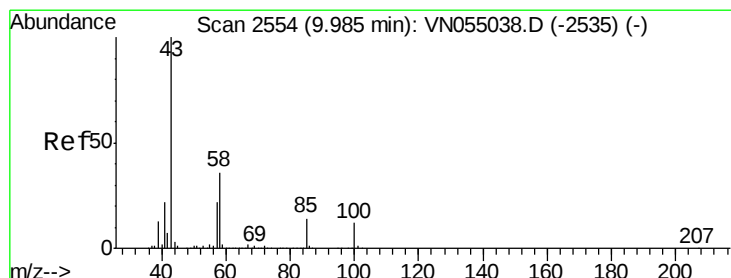
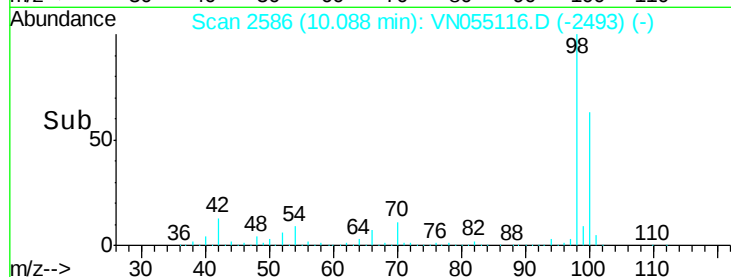
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.174 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN055116.D

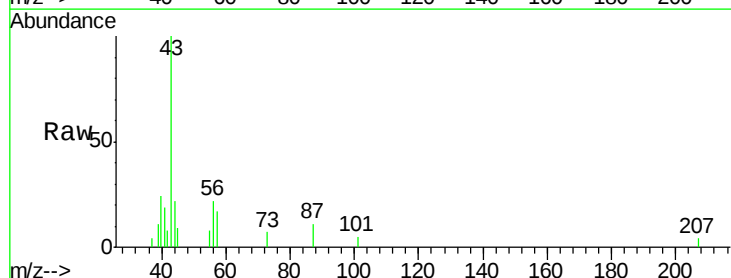
Acq: 18 Apr 2019 10:46

Tgt Ion: 43 Resp: 9491

Ion Ratio Lower Upper

43 100

58 0.0 29.0 43.4#



Abundance Ion 43.00 (42.70 to 43.70): VN055038.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN055038.D (-2535) (-)

10.02

5000

4000

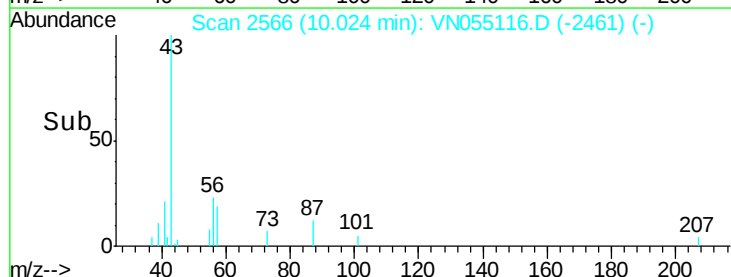
3000

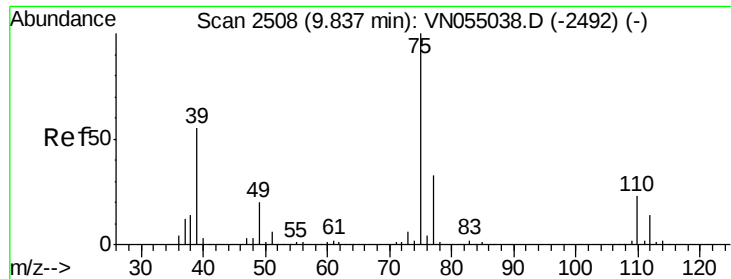
2000

1000

0

Time-->



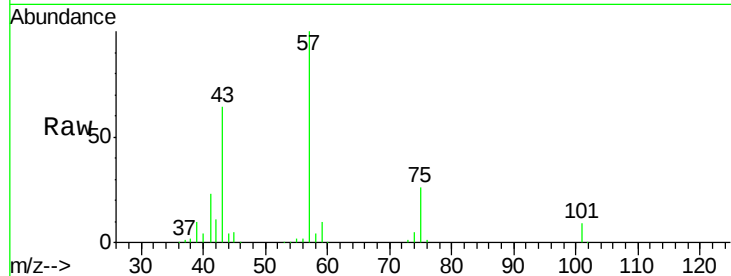


#54

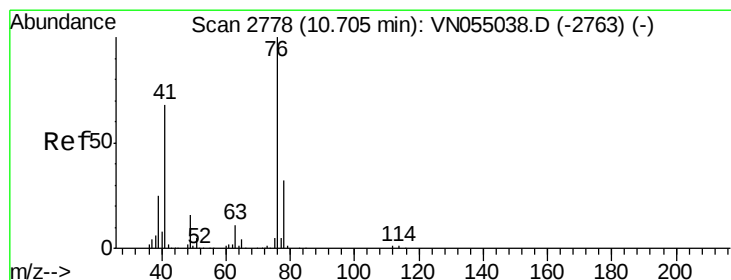
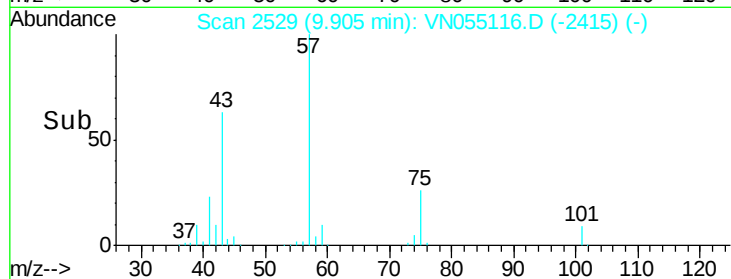
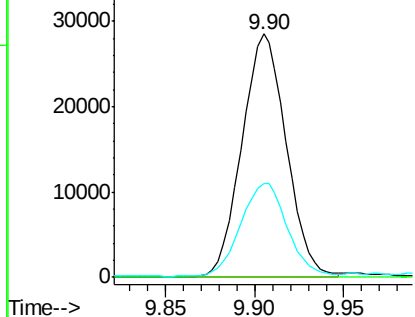
cis-1,3-Dichloropropene
 Concen: 7.702 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN055116.D
 Acq: 18 Apr 2019 10:46

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 49648
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.8 38.6#
 39 38.1 43.8 65.8#



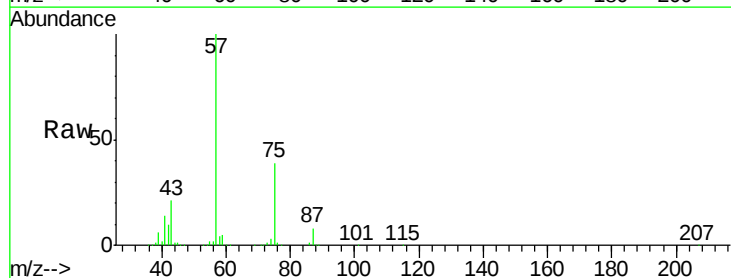
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



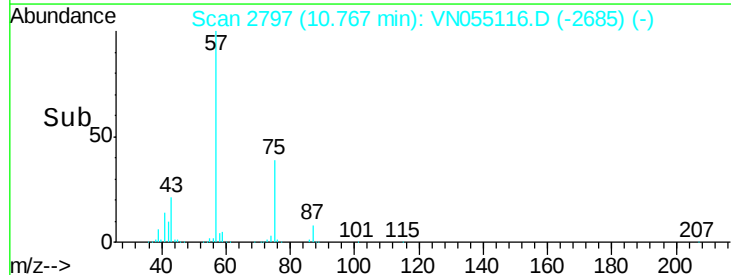
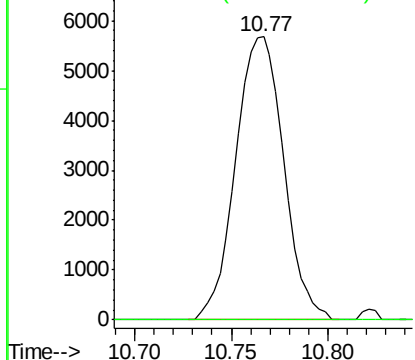
#57

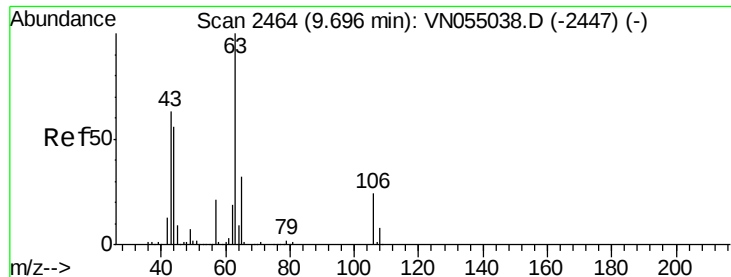
1,3-Dichloropropane
 Concen: 1.437 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN055116.D
 Acq: 18 Apr 2019 10:46

Tgt Ion: 76 Resp: 9804
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0





#58

2-Chloroethyl Vinyl ether

Concen: 10.766 ug/l

RT: 9.92 min Scan# 2533

Delta R.T. 0.22 min

Lab File: VN055116.D

Acq: 18 Apr 2019 10:46

Instrument :

MSVOA_N

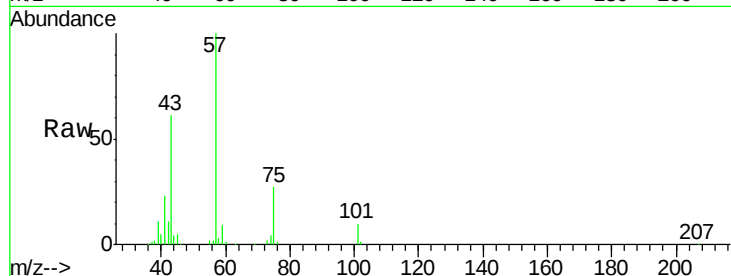
ClientSampleId :

Tot Ion: 63 Resp: 63

Ion Ratio Lower Upper

63 100

106 0.0 20.0 30.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.92

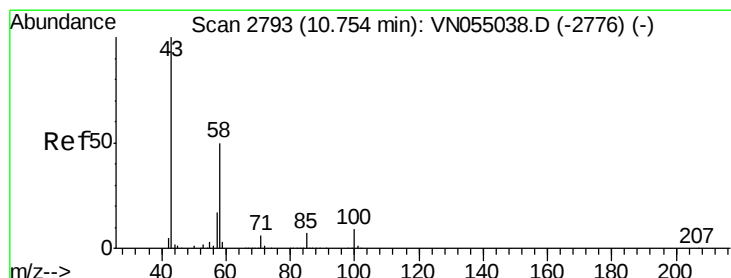
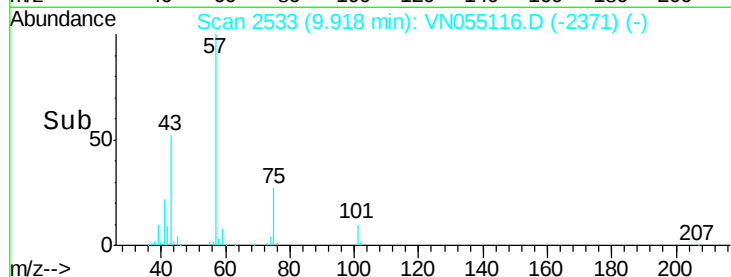
150

100

50

0

Time--> 9.90 9.91 9.92



#59

2-Hexanone

Concen: 61.146 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN055116.D

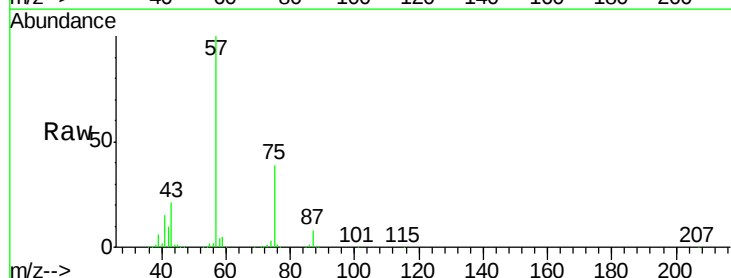
Acq: 18 Apr 2019 10:46

Tgt Ion: 43 Resp: 167699

Ion Ratio Lower Upper

43 100

58 18.3 25.1 75.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

120000

100000

80000

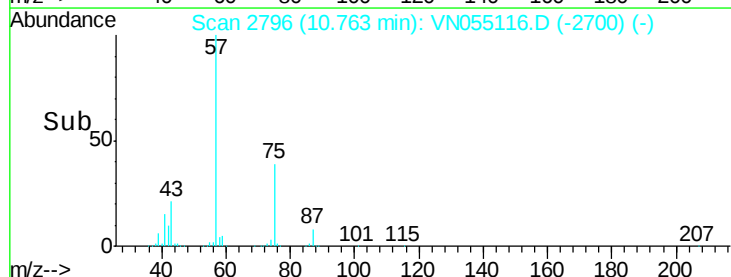
60000

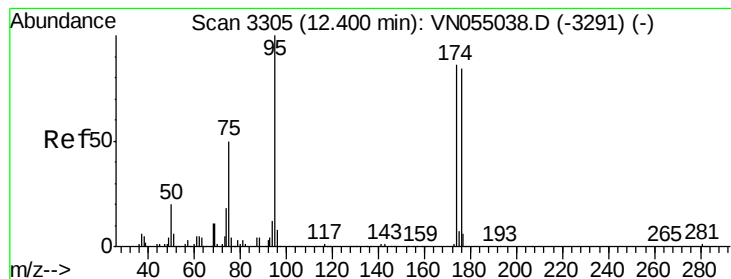
40000

20000

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 44.326 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055116.D

Acq: 18 Apr 2019 10:46

Instrument :

MSVOA_N

ClientSampleId :

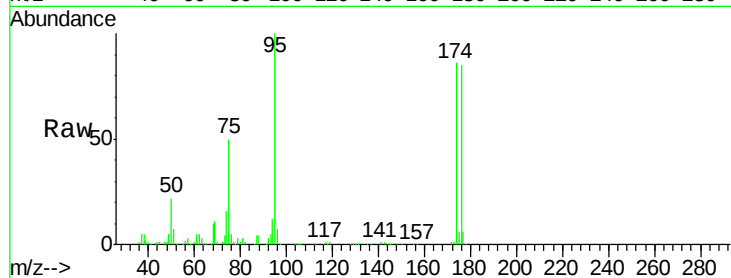
Tot Ion: 95 Resp: 220302

Ion Ratio Lower Upper

95 100

174 84.7 0.0 174.4

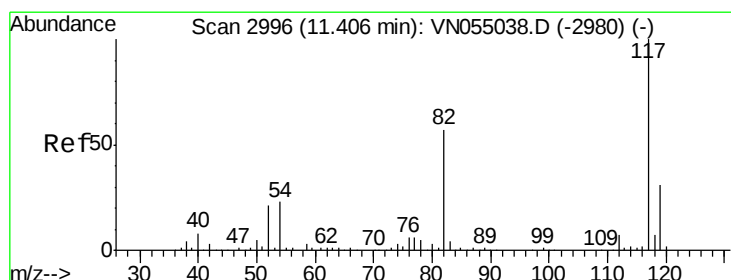
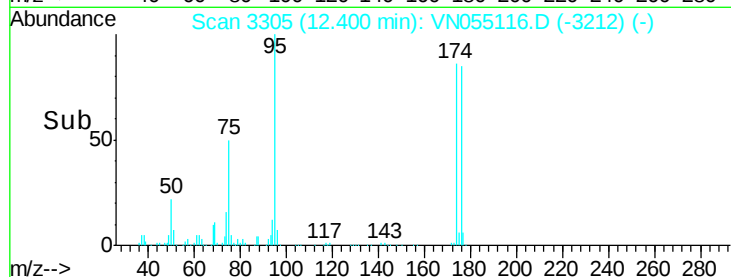
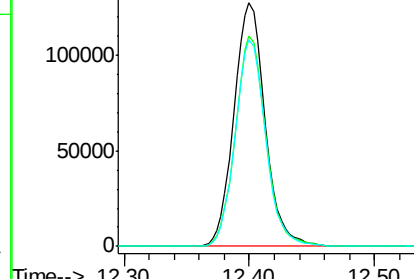
176 83.0 0.0 166.8



Abundance Ion 94.90 (94.60 to 95.60): VN055116.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN055116.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN055116.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055116.D

Acq: 18 Apr 2019 10:46

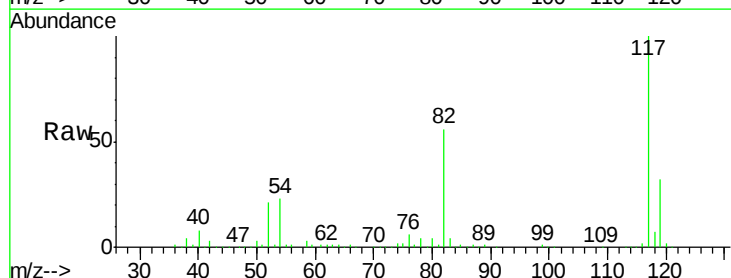
Tgt Ion: 117 Resp: 545551

Ion Ratio Lower Upper

117 100

82 56.1 44.6 66.8

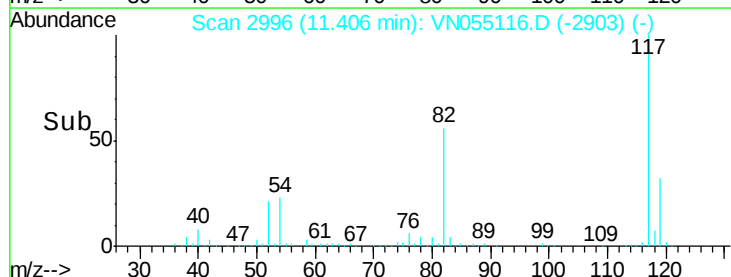
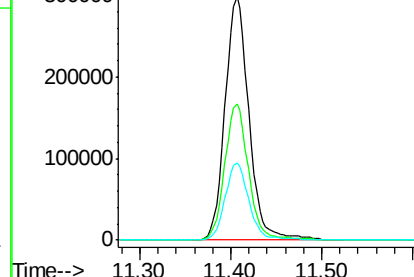
119 31.7 25.5 38.3

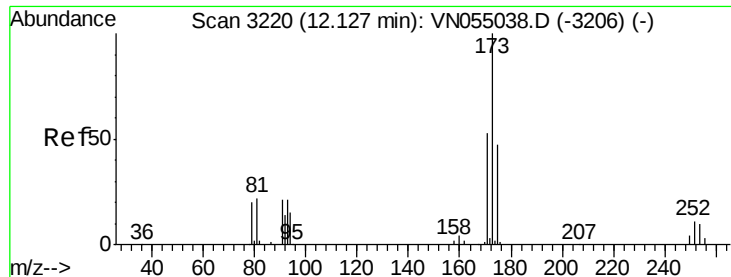


Abundance Ion 116.90 (116.60 to 117.60): VN055116.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN055116.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN055116.D (-2903) (-)





#71

Bromoform

Concen: 0.946 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055116.D

Acq: 18 Apr 2019 10:46

Instrument :

MSVOA_N

ClientSampled :

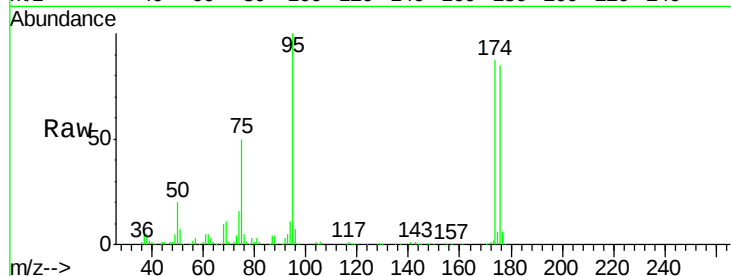
Tot Ion:173 Resp: 2191

Ion Ratio Lower Upper

173 100

175 553.5 24.3 73.0#

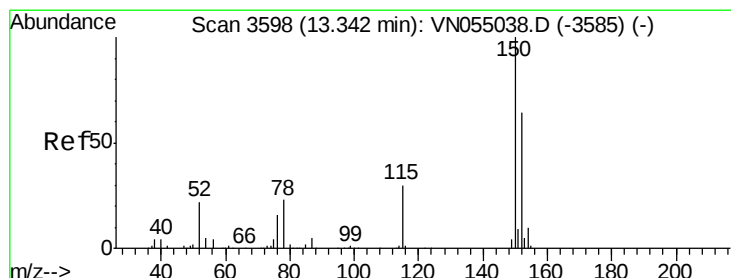
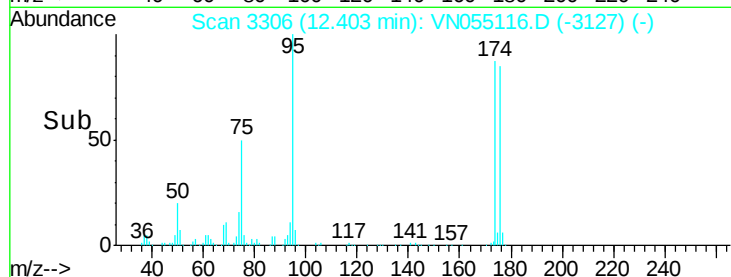
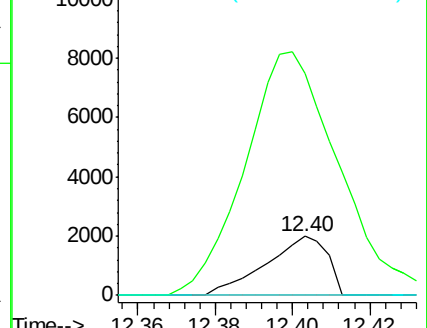
254 0.0 0.1 0.1#



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: VN055116.D

Acq: 18 Apr 2019 10:46

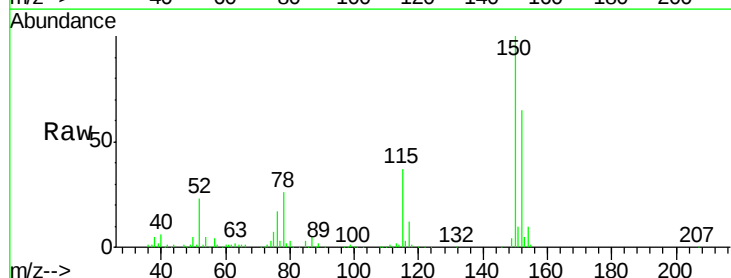
Tgt Ion:152 Resp: 167734

Ion Ratio Lower Upper

152 100

115 56.7 28.5 85.6

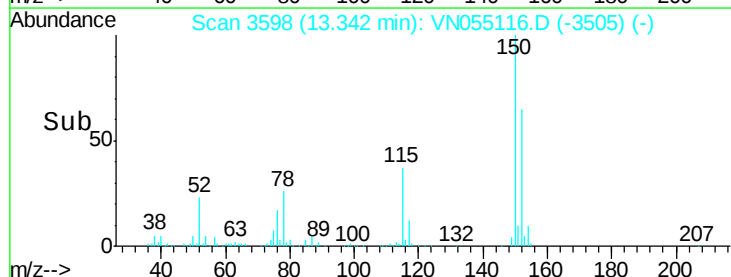
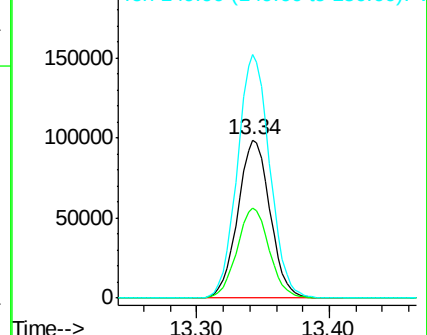
150 153.9 0.0 347.2

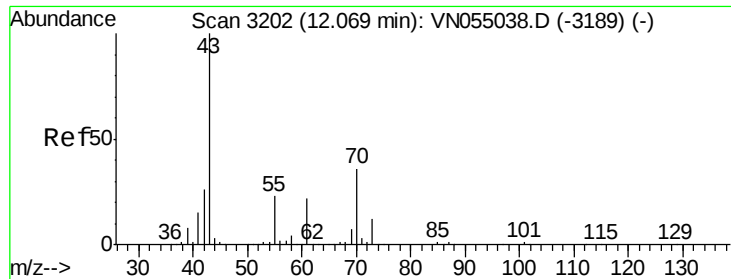


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 4.094 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN055116.D

Acq: 18 Apr 2019 10:46

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 17152

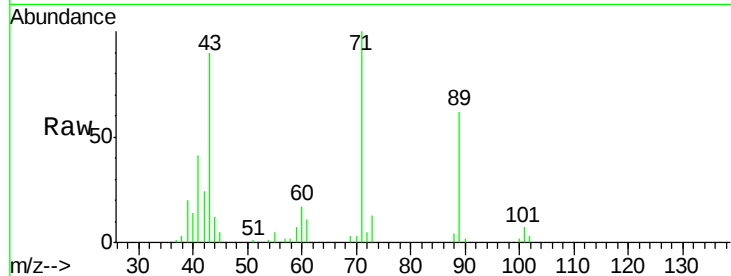
Ion Ratio Lower Upper

43 100

70 2.2 29.4 44.0#

55 4.7 19.0 28.4#

61 11.1 17.7 26.5#

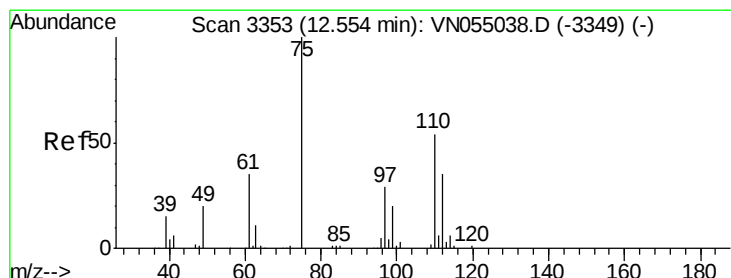
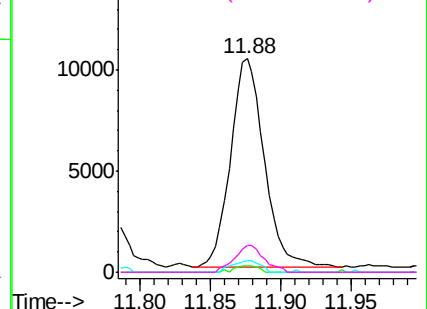
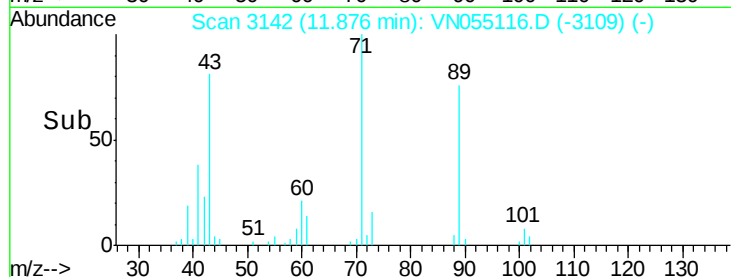


Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 70.00 (69.70 to 70.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 61.00 (60.70 to 61.70): VNC



#76

1,2,3-Trichloropropane

Concen: 37.211 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055116.D

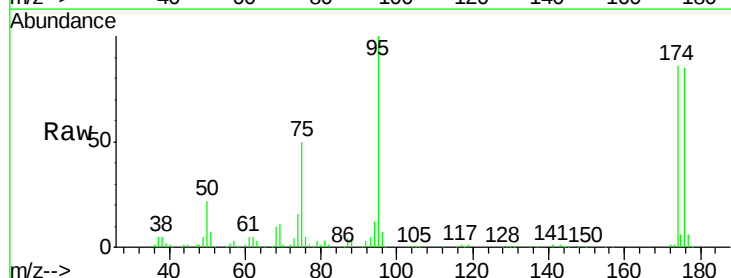
Acq: 18 Apr 2019 10:46

Tgt Ion: 75 Resp: 112237

Ion Ratio Lower Upper

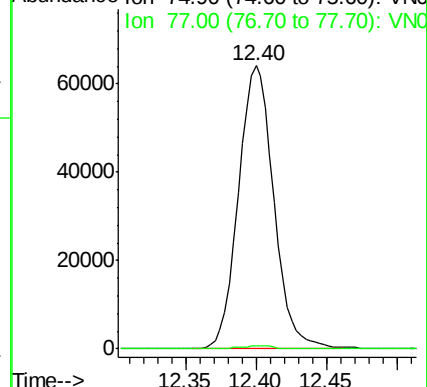
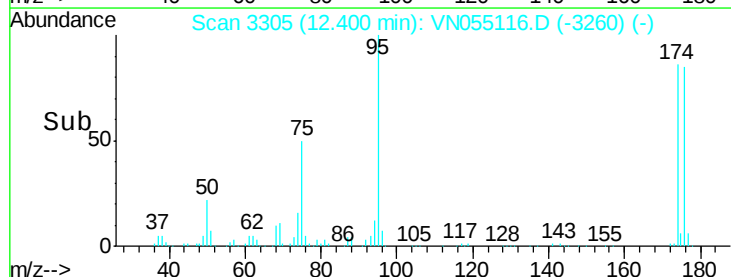
75 100

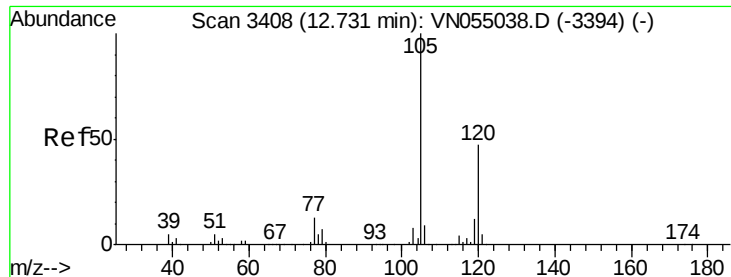
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#80

1,3,5-Trimethylbenzene

Concen: 0.788 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055116.D

Acq: 18 Apr 2019 10:46

Instrument :

MSVOA_N

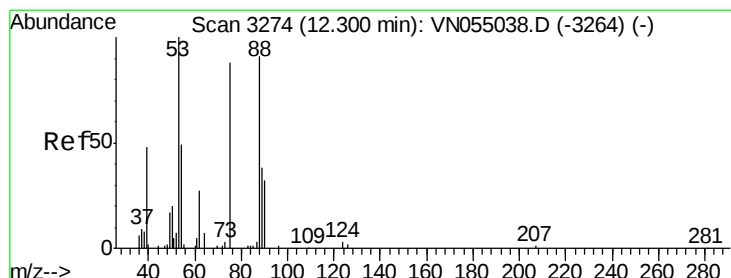
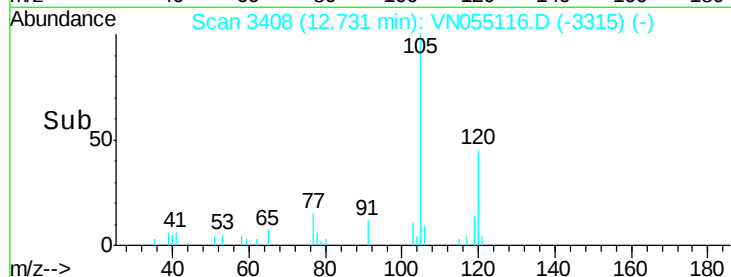
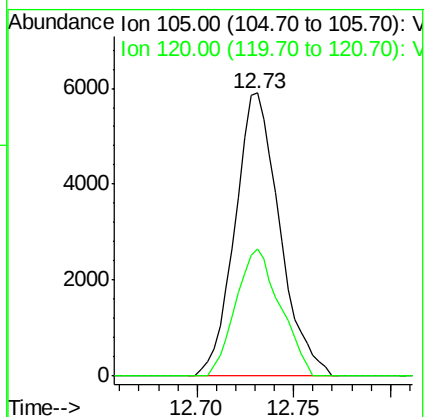
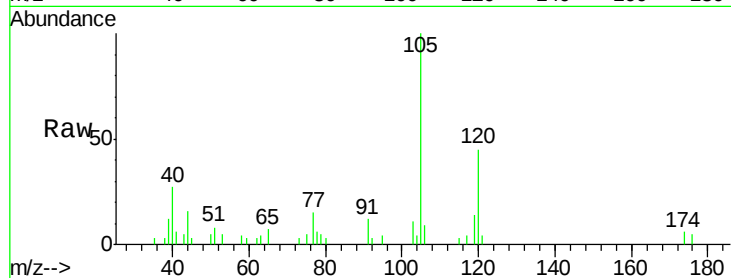
ClientSampleId :

Tot Ion:105 Resp: 9467

Ion Ratio Lower Upper

105 100

120 44.5 24.3 72.8



#81

trans-1,4-Dichloro-2-butene

Concen: 148.800 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055116.D

Acq: 18 Apr 2019 10:46

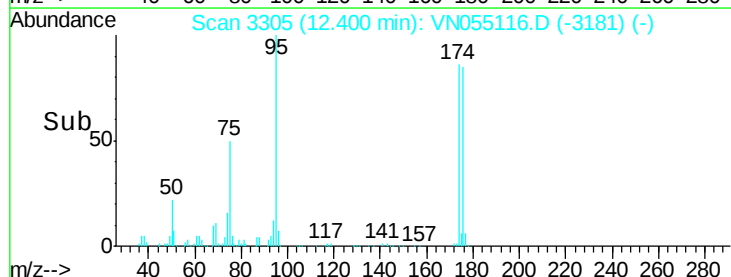
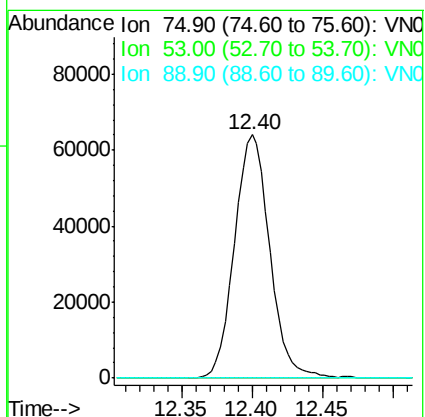
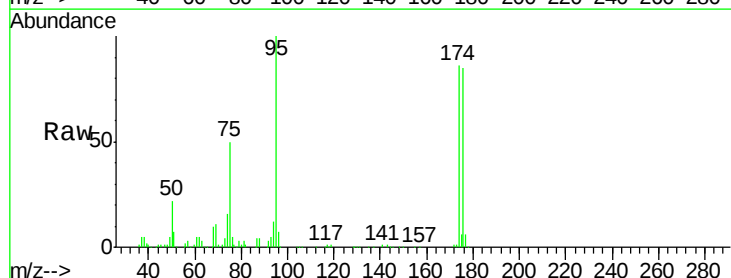
Tgt Ion: 75 Resp: 112237

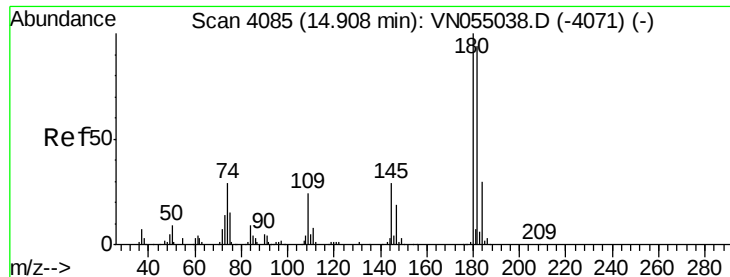
Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

89 0.0 38.6 57.8#

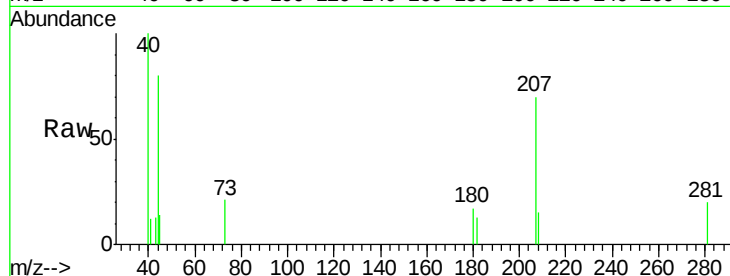




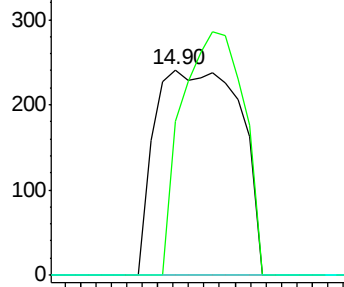
#93
 1,2,4-Trichlorobenzene
 Concen: 2.813 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN055116.D
 Acq: 18 Apr 2019 10:46

Instrument :
 MSVOA_N
 ClientSampleId :

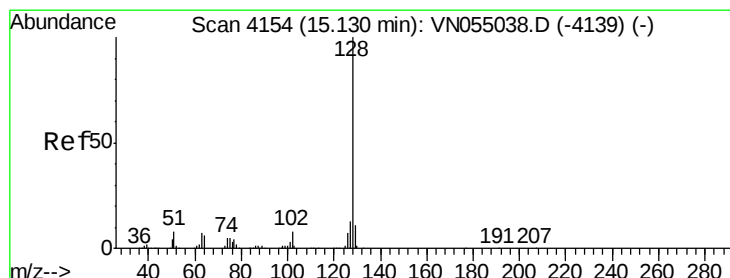
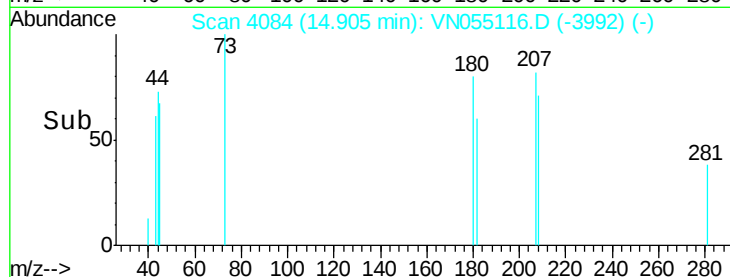
Tot Ion:180 Resp: 370
 Ion Ratio Lower Upper
 180 100
 182 85.7 47.5 142.6
 145 0.0 14.2 42.8#



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

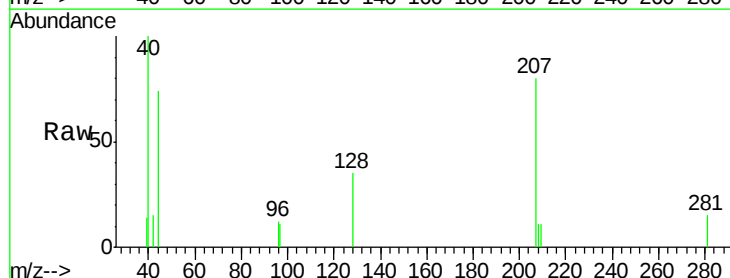


Time-->

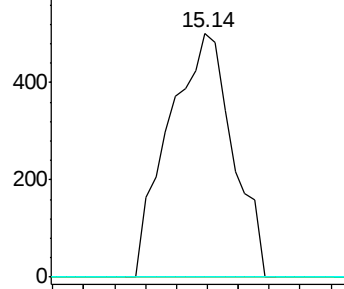


#95
 Naphthalene
 Concen: 3.192 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN055116.D
 Acq: 18 Apr 2019 10:46

Tgt Ion:128 Resp: 719
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.1 15.1#
 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



Time-->

