

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055166.D
 Acq On : 20 Apr 2019 3:10
 Operator : JC/SP
 Sample : K2283-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30134-39

Quant Time: Apr 20 04:31:04 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	7.67	168	527586	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	848471	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	681530	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	206572	50.00	ug/l	0.00

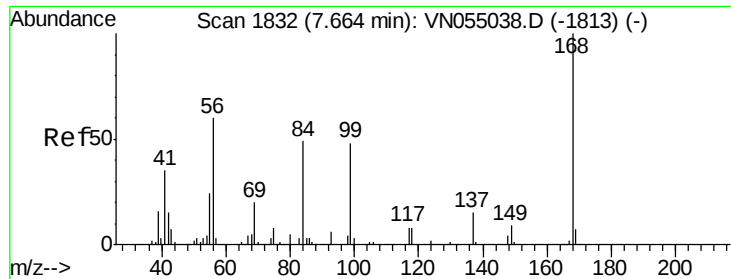
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	336675	48.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.02%	
35) Dibromofluoromethane	7.59	113	266611	47.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.04%	
50) Toluene-d8	10.09	98	994230	48.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.98%	
62) 4-Bromofluorobenzene	12.40	95	282835	42.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.74%	

Target Compounds

					Qvalue	
16) Acetone	3.83	43	9135	4.799	ug/l #	82
18) Methyl Acetate	4.34	43	8116	1.051	ug/l #	77
20) Methylene Chloride	4.55	84	13322	1.991	ug/l	96
31) Cyclohexane	7.67	56	10729	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	39739	4.968	ug/l #	48
38) Carbon Tetrachloride	7.67	117	49671	6.527	ug/l #	17
43) Isopropyl Acetate	8.18	43	25404	2.532	ug/l #	92
45) 1,2-Dichloropropane	9.27	63	1618	0.241	ug/l #	44
48) Methyl methacrylate	9.18	41	7905	1.590	ug/l #	33
49) 1,4-Dioxane	9.26	88	68	1.459	ug/l #	19
51) 4-Methyl-2-Pentanone	10.03	43	9778	1.687	ug/l #	39
54) cis-1,3-Dichloropropene	9.90	75	57801	6.755	ug/l #	67
57) 1,3-Dichloropropane	10.76	76	10633	1.174	ug/l #	43
59) 2-Hexanone	10.76	43	175557	48.219	ug/l #	54
71) Bromoform	12.40	173	2960	1.023	ug/l #	1
74) N-amyl acetate	11.88	43	16165	3.133	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	142433	38.343	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	142433	153.330	ug/l #	2
95) Naphthalene	15.14	128	1478	3.267	ug/l #	72

(#) = 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: VN055166.D

Acq: 20 Apr 2019 3:10

Instrument :

MSVOA_N

ClientSampleId :

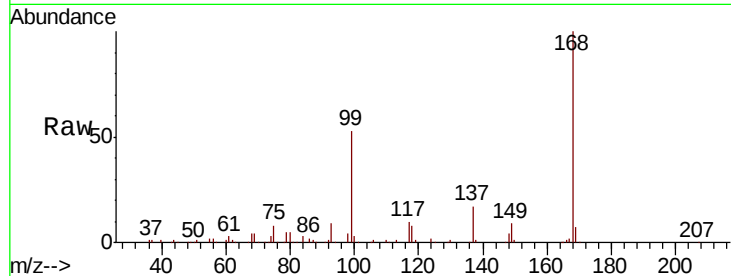
30134-39

Tot Ion:168 Resp: 527586

Ion Ratio Lower Upper

168 100

99 53.2 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): VN055038.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055038.D (-1813) (-)

7.67

250000

200000

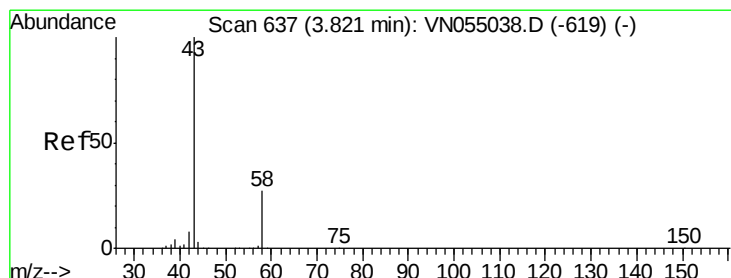
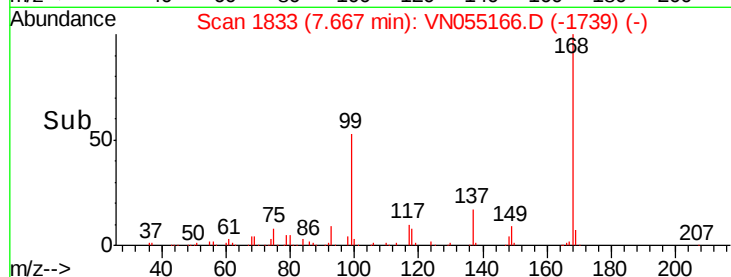
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 4.799 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN055166.D

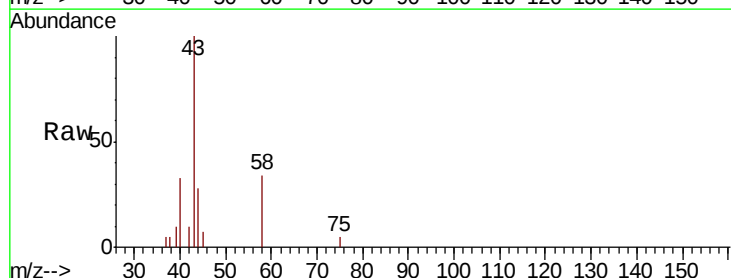
Acq: 20 Apr 2019 3:10

Tgt Ion: 43 Resp: 9135

Ion Ratio Lower Upper

43 100

58 35.4 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN055038.D (-619) (-)

Ion 58.00 (57.70 to 58.70): VN055038.D (-619) (-)

3.83

4000

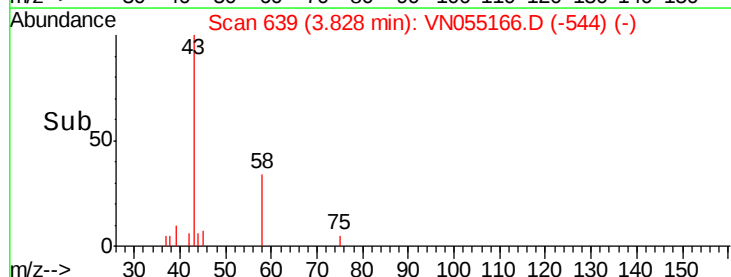
3000

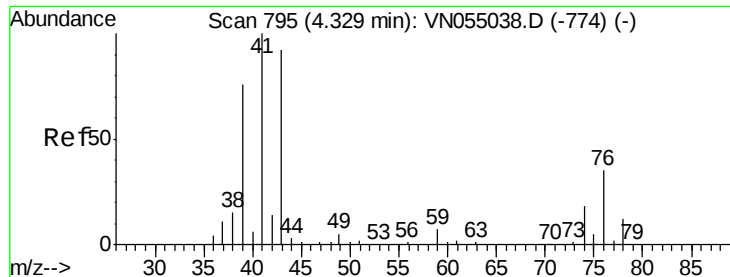
2000

1000

0

Time-->

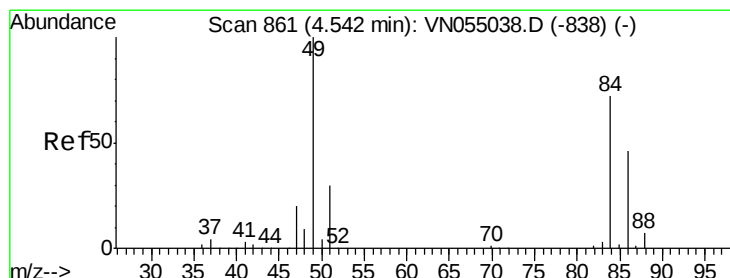
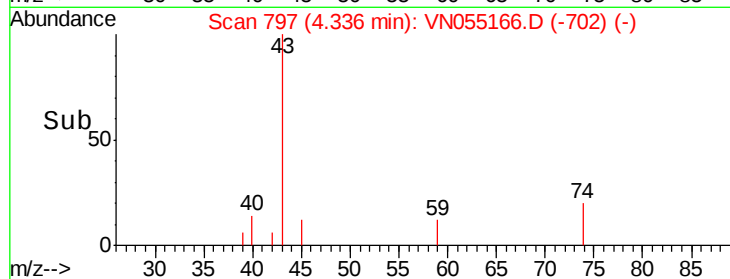
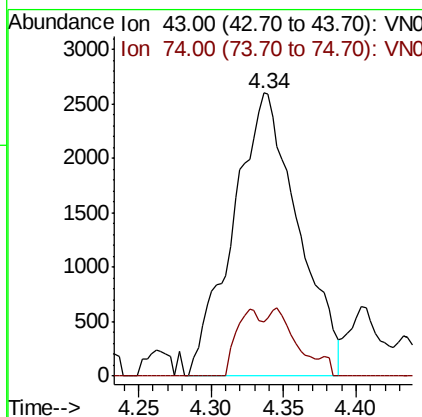
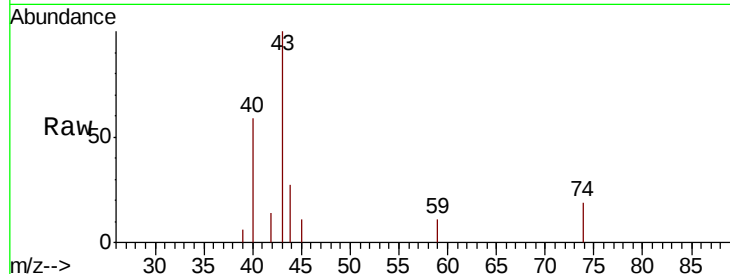




#18
Methyl Acetate
Concen: 1.051 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN055166.D
Acq: 20 Apr 2019 3:10

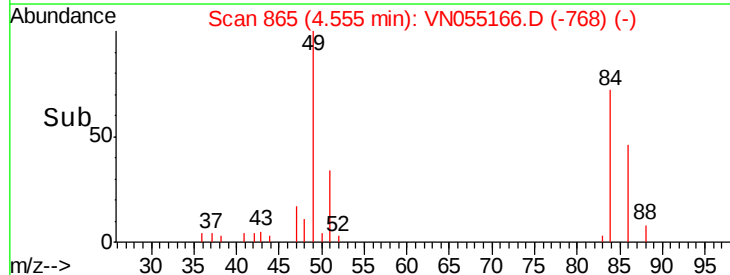
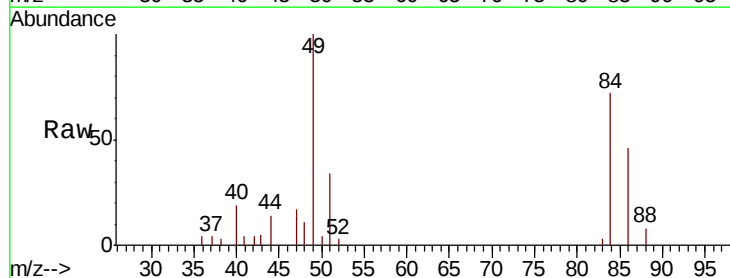
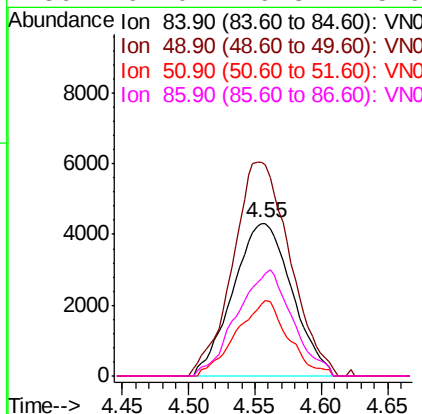
Instrument :
MSVOA_N
ClientSampled :
30134-39

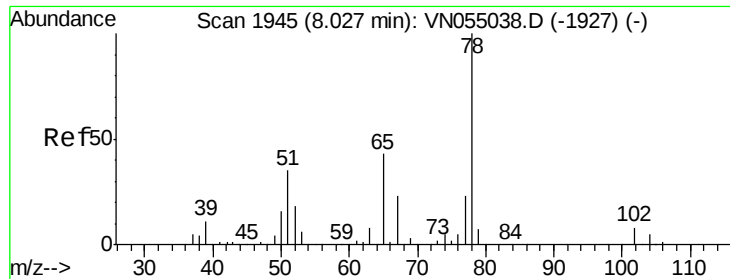
Tot Ion: 43 Resp: 8116
Ion Ratio Lower Upper
43 100
74 9.4 16.1 24.1#



#20
Methylene Chloride
Concen: 1.991 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN055166.D
Acq: 20 Apr 2019 3:10

Tgt Ion: 84 Resp: 13322
Ion Ratio Lower Upper
84 100
49 139.5 109.4 164.2
51 46.9 32.2 48.4
86 64.0 49.3 73.9

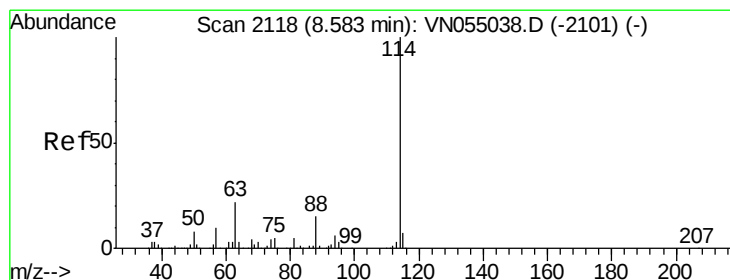
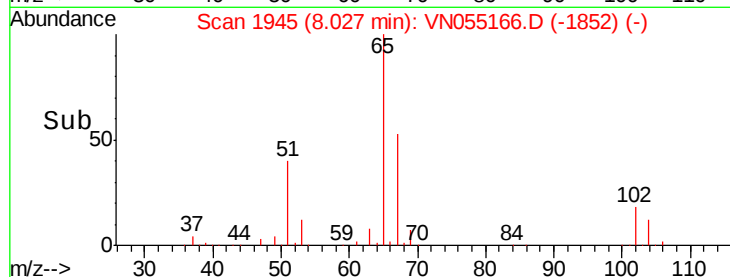
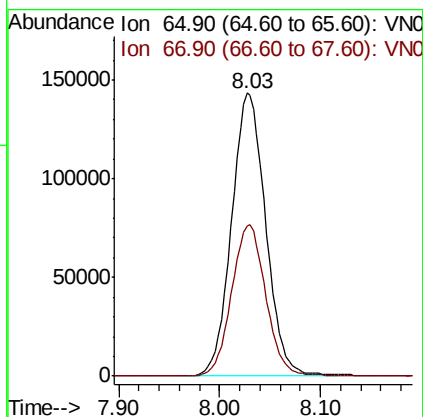
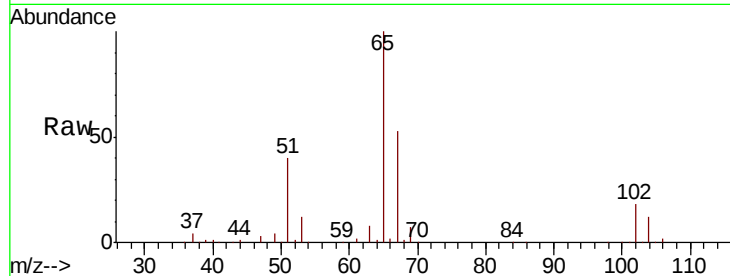




#33
 1,2-Dichloroethane-d4
 Concen: 48.008 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055166.D
 Acq: 20 Apr 2019 3:10

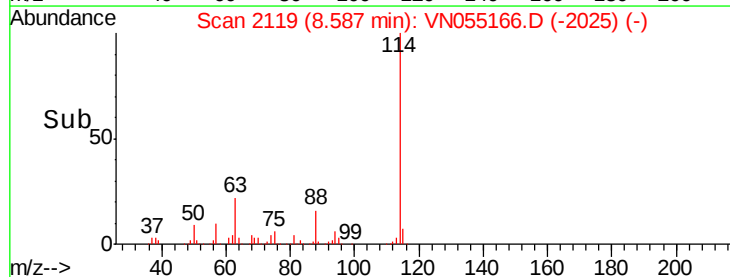
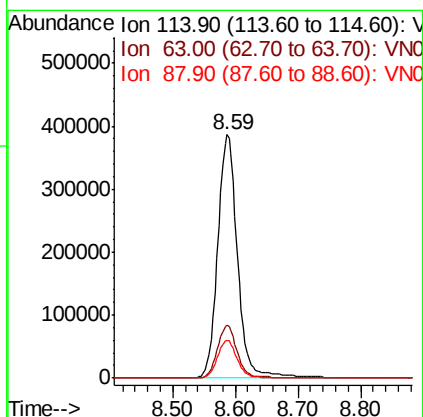
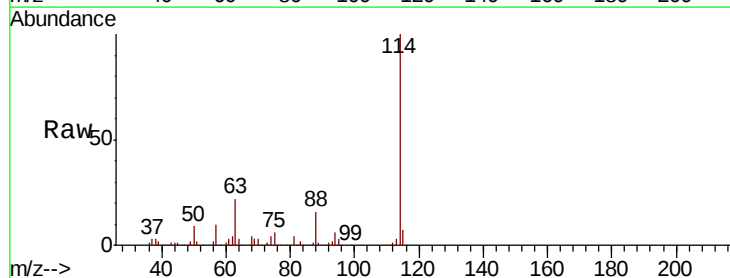
Instrument :
 MSVOA_N
 ClientSampleId :
 30134-39

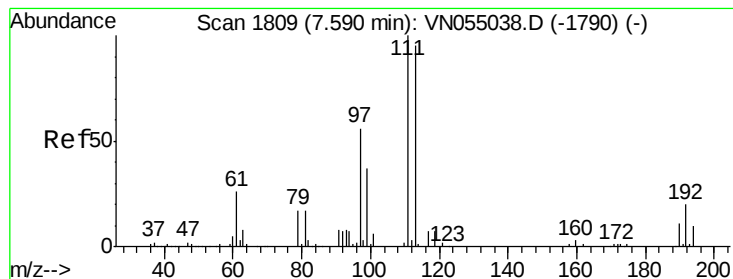
Tot Ion: 65 Resp: 336675
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055166.D
 Acq: 20 Apr 2019 3:10

Tgt Ion: 114 Resp: 848471
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 45.2
 88 15.6 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.018 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN055166.D

Acq: 20 Apr 2019 3:10

Instrument :

MSVOA_N

ClientSampled :

30134-39

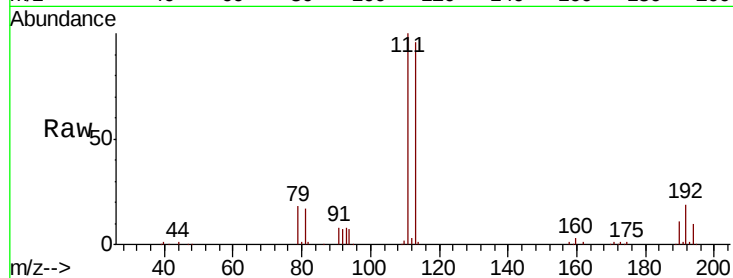
Tot Ion:113 Resp: 266611

Ion Ratio Lower Upper

113 100

111 103.0 82.1 123.1

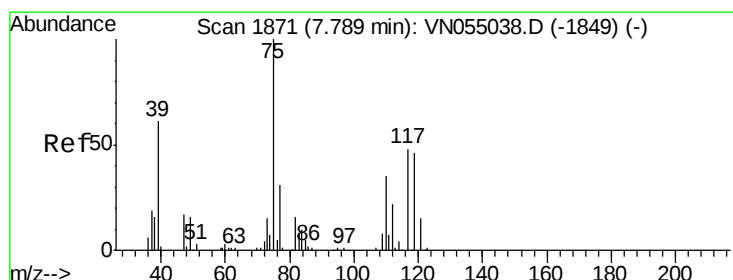
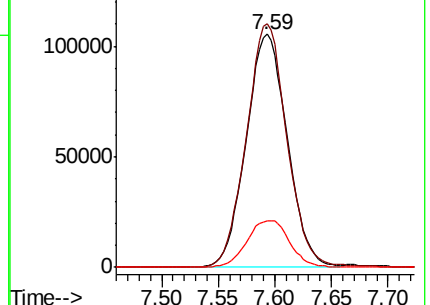
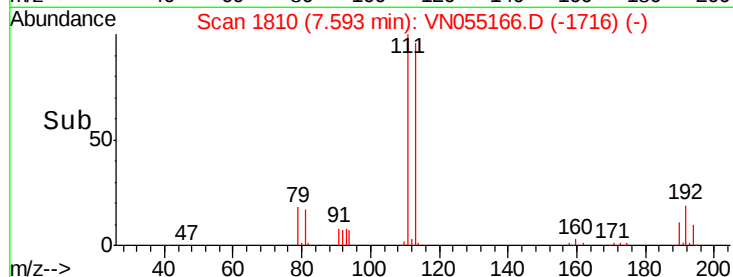
192 20.9 16.5 24.7



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



#36

1,1-Dichloropropene

Concen: 4.968 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.12 min

Lab File: VN055166.D

Acq: 20 Apr 2019 3:10

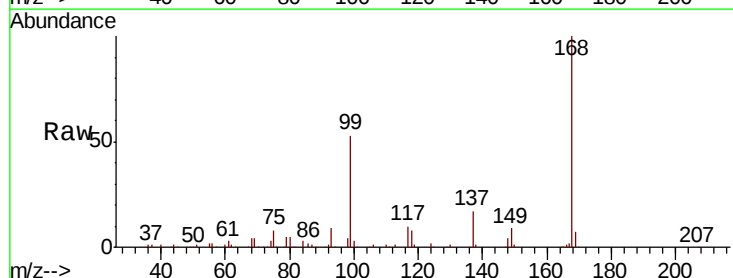
Tgt Ion: 75 Resp: 39739

Ion Ratio Lower Upper

75 100

110 7.0 17.5 52.5#

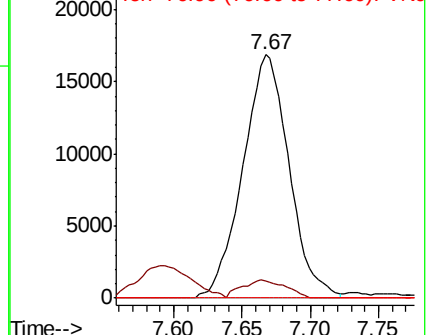
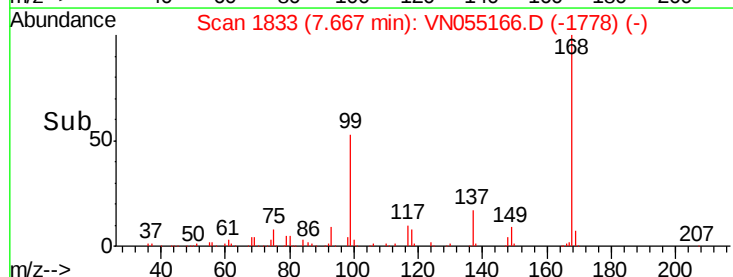
77 0.0 24.9 37.3#

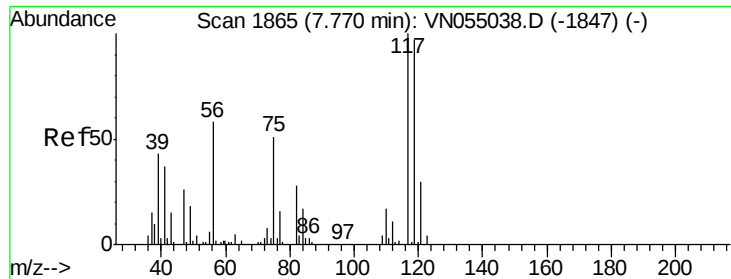


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.527 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN055166.D

Acq: 20 Apr 2019 3:10

Instrument :

MSVOA_N

ClientSampled :

30134-39

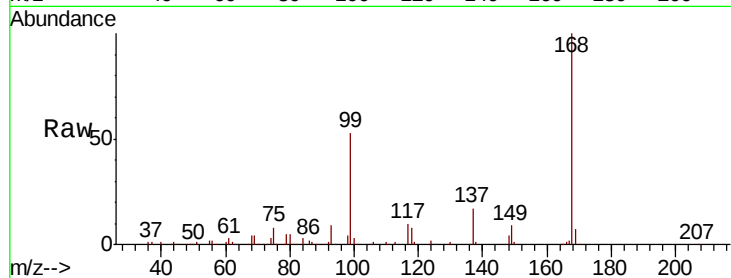
Tot Ion:117 Resp: 49671

Ion Ratio Lower Upper

117 100

119 5.6 76.3 114.5#

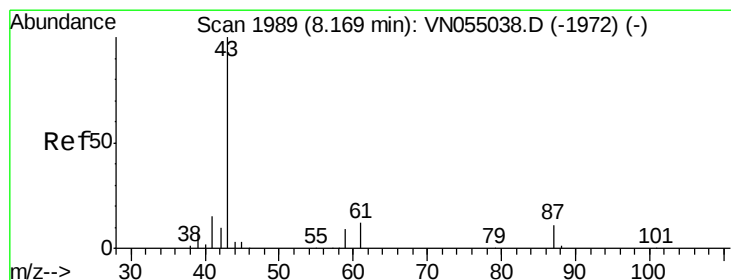
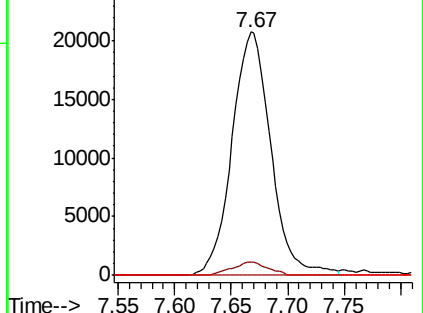
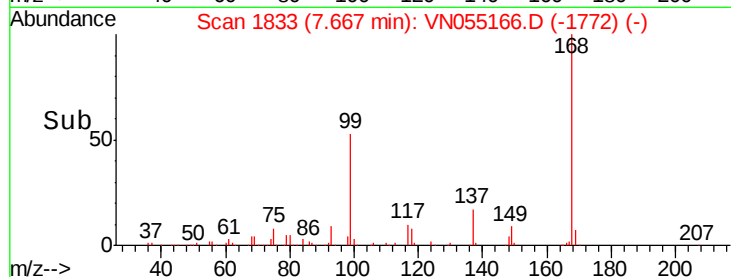
121 0.0 23.9 35.9#



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: 2.532 ug/l

RT: 8.18 min Scan# 1992

Delta R.T. 0.01 min

Lab File: VN055166.D

Acq: 20 Apr 2019 3:10

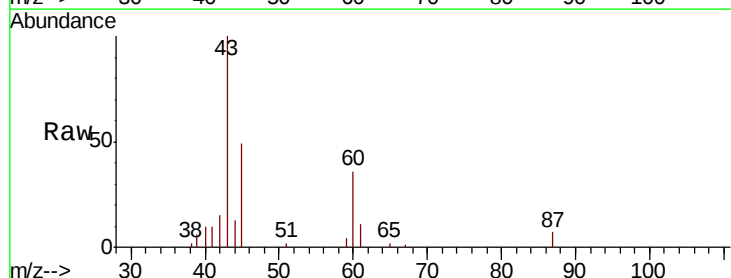
Tgt Ion: 43 Resp: 25404

Ion Ratio Lower Upper

43 100

61 14.5 14.3 21.5

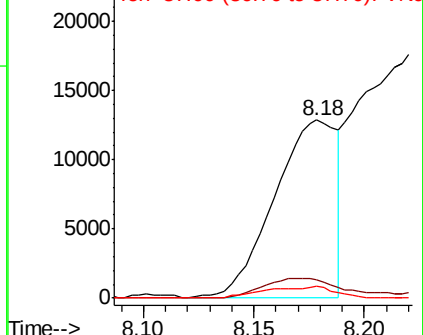
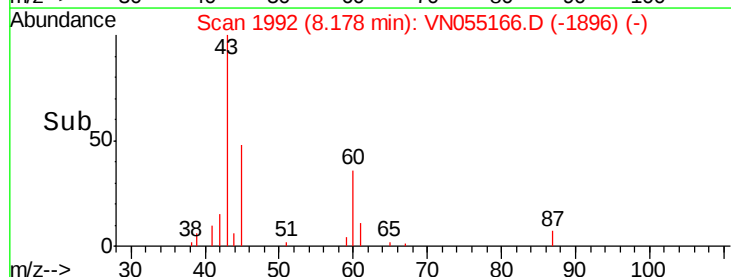
87 7.3 8.6 13.0#

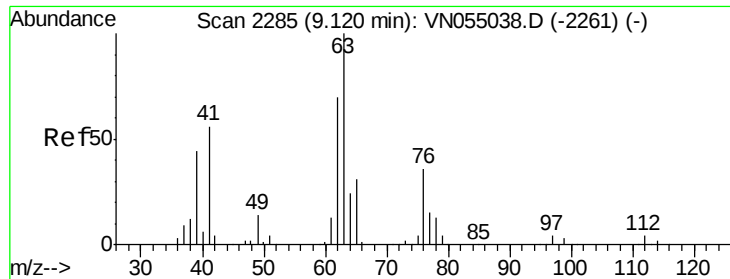


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

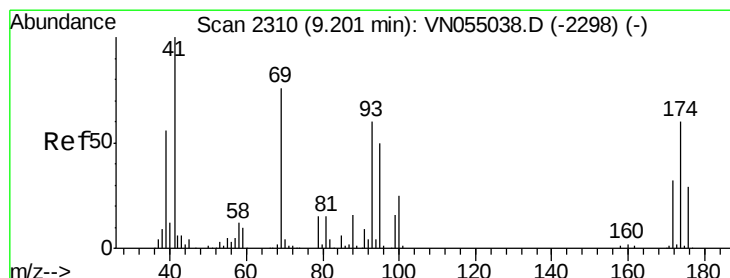
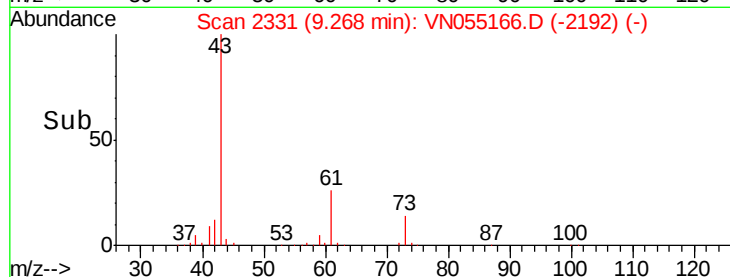
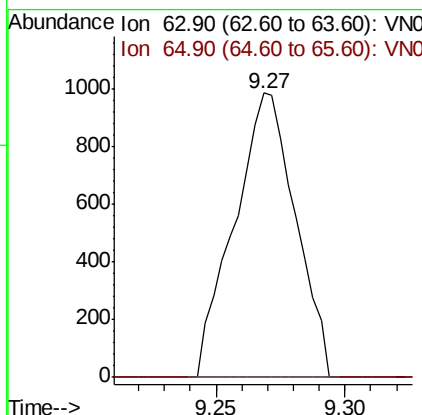
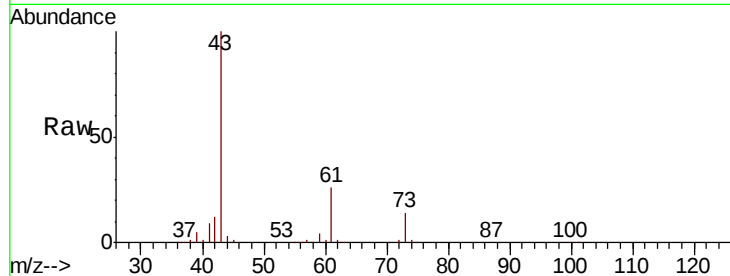




#45
 1,2-Dichloropropane
 Concen: 0.241 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN055166.D
 Acq: 20 Apr 2019 3:10

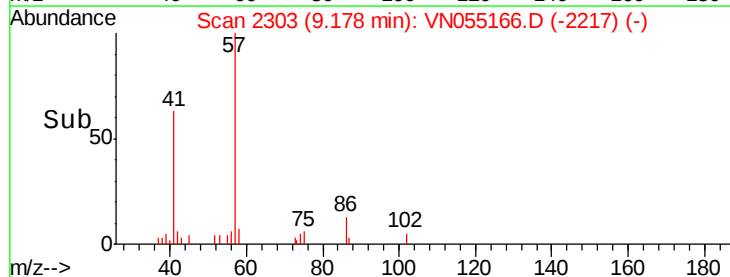
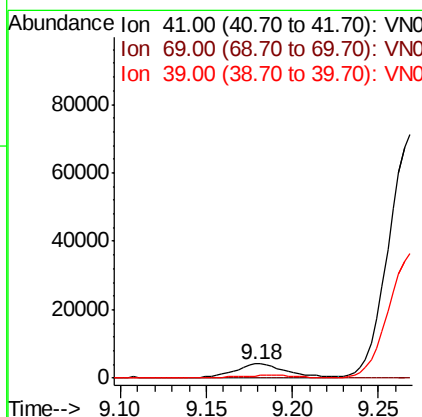
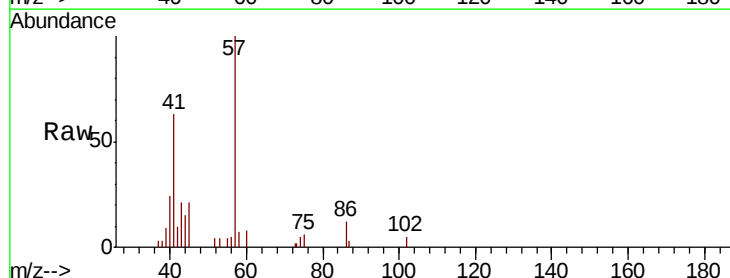
Instrument :
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 30134-39

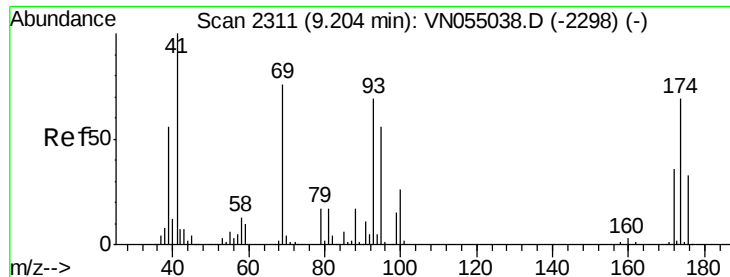
Tot Ion: 63 Resp: 1618
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.590 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN055166.D
 Acq: 20 Apr 2019 3:10

Tgt Ion: 41 Resp: 7905
 Ion Ratio Lower Upper
 41 100
 69 0.0 60.5 90.7#
 39 27.1 43.9 65.9#





#49

1,4-Dioxane

Concen: 1.459 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.06 min

Lab File: VN055166.D

Acq: 20 Apr 2019 3:10

Instrument :

MSVOA_N

ClientSampleId :

30134-39

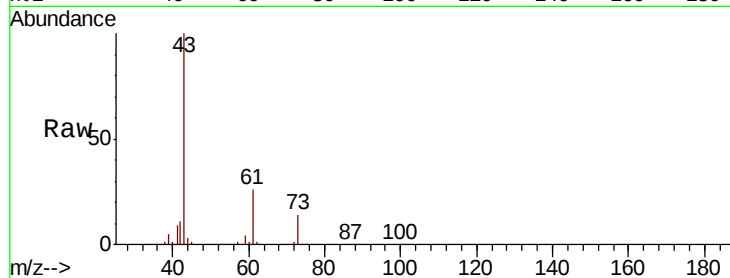
Tot Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 0.0 31.8 47.8#

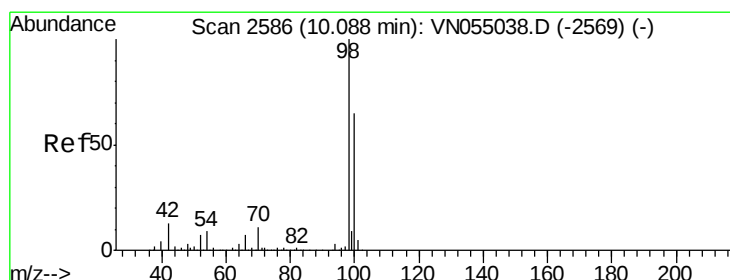
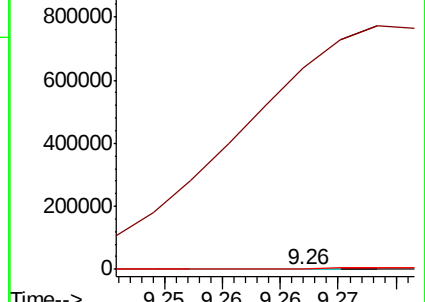
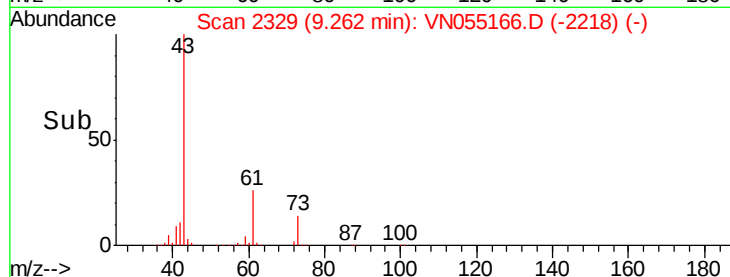
58 0.0 61.6 92.4#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.989 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055166.D

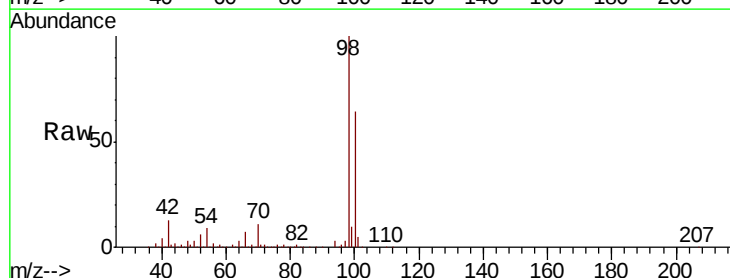
Acq: 20 Apr 2019 3:10

Tgt Ion: 98 Resp: 994230

Ion Ratio Lower Upper

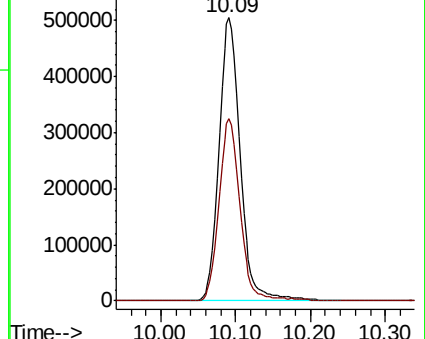
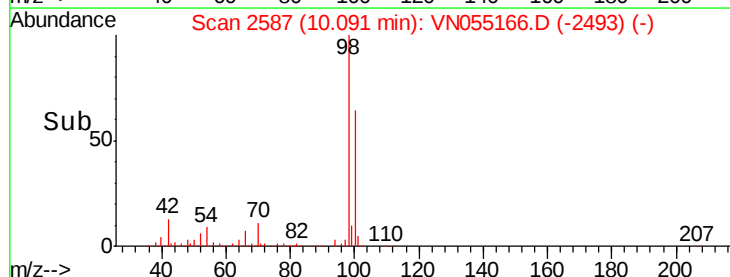
98 100

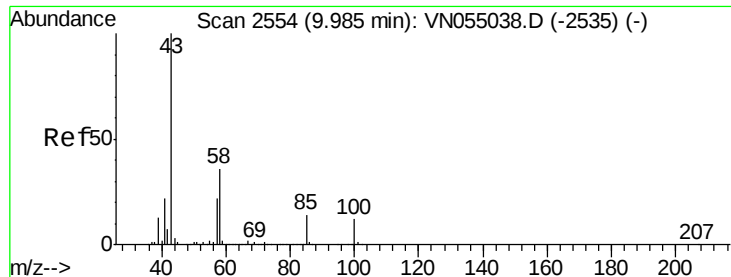
100 64.2 51.1 76.7



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: 1.687 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN055166.D

Acq: 20 Apr 2019 3:10

Instrument :

MSVOA_N

ClientSampled :

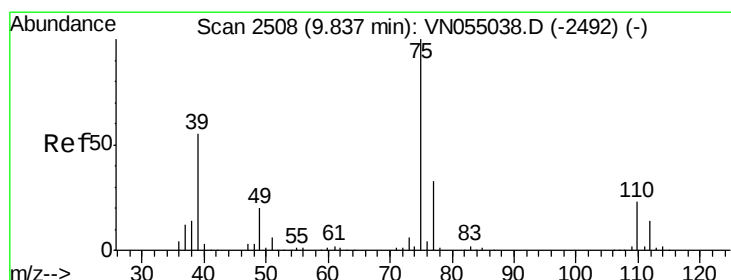
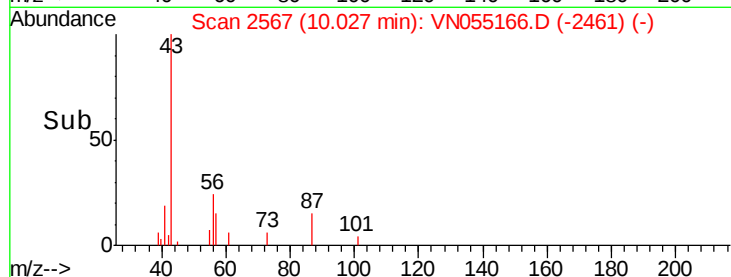
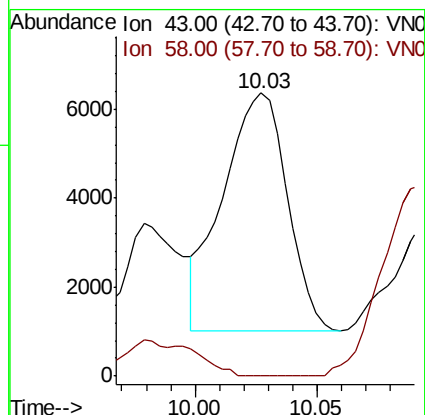
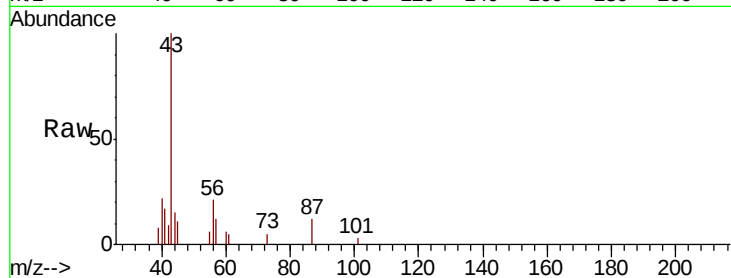
30134-39

Tot Ion: 43 Resp: 9778

Ion Ratio Lower Upper

43 100

58 0.0 29.0 43.4#



#54

cis-1,3-Dichloropropene

Concen: 6.755 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN055166.D

Acq: 20 Apr 2019 3:10

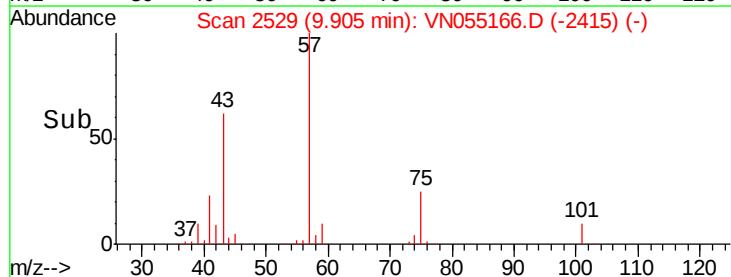
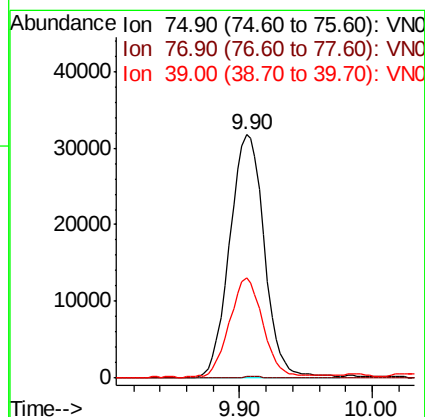
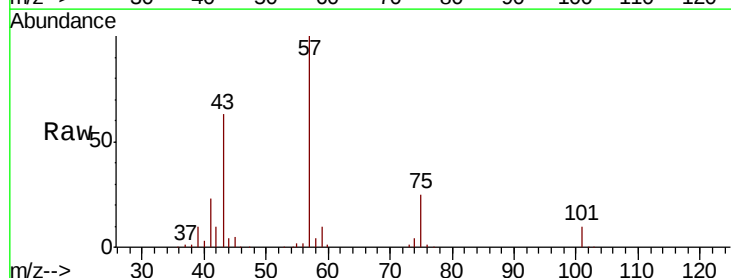
Tgt Ion: 75 Resp: 57801

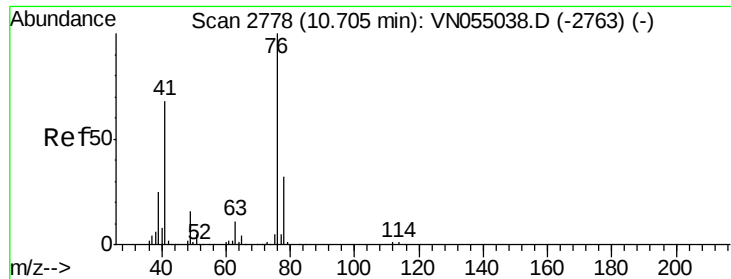
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 40.5 43.8 65.8#





#57

1,3-Dichloropropane

Concen: 1.174 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN055166.D

Acq: 20 Apr 2019 3:10

Instrument :

MSVOA_N

ClientSampleId :

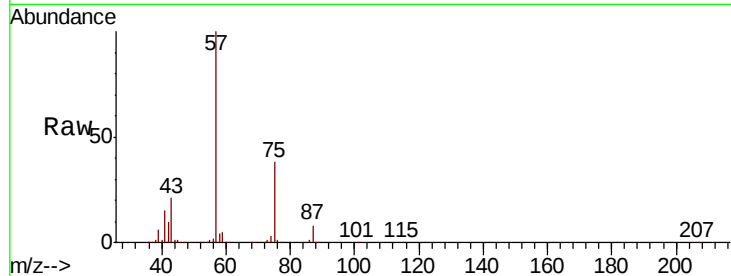
30134-39

Tot Ion: 76 Resp: 10633

Ion Ratio Lower Upper

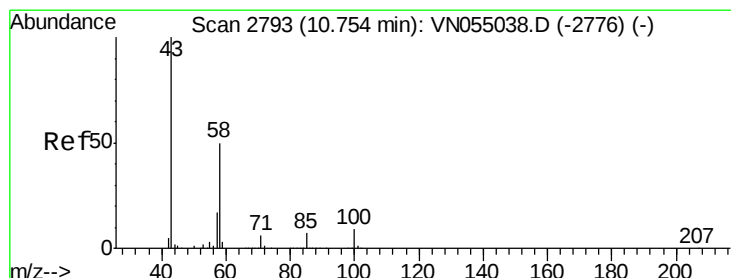
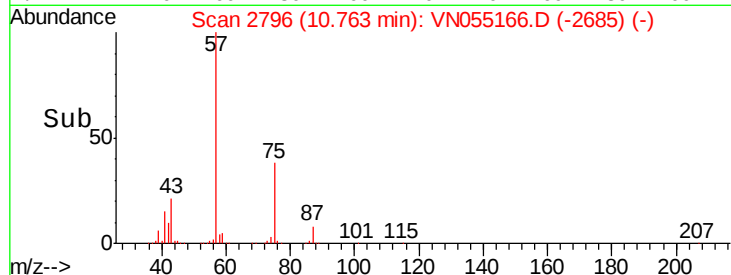
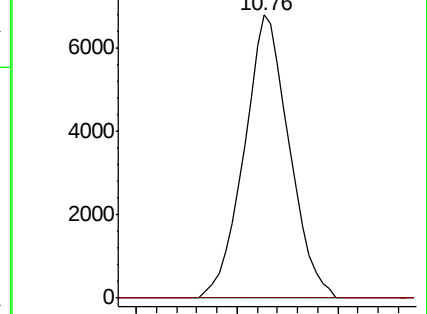
76 100

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



#59

2-Hexanone

Concen: 48.219 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN055166.D

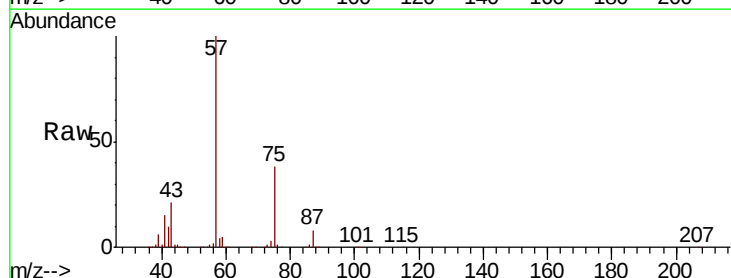
Acq: 20 Apr 2019 3:10

Tgt Ion: 43 Resp: 175557

Ion Ratio Lower Upper

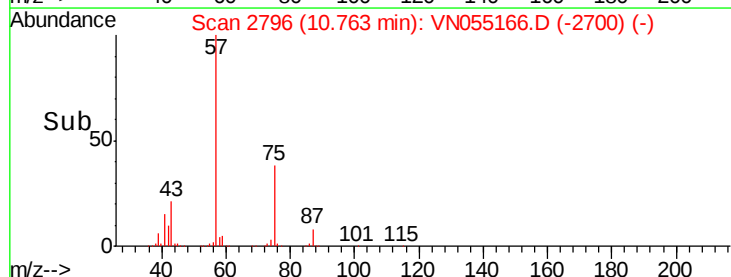
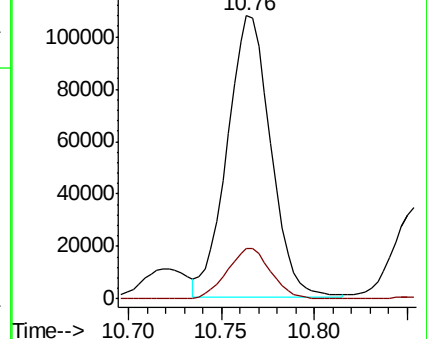
43 100

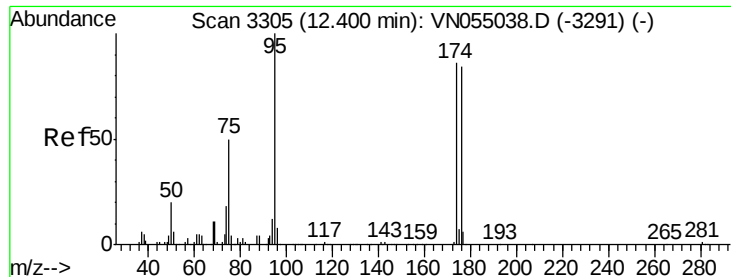
58 18.1 25.1 75.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 42.868 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055166.D

Acq: 20 Apr 2019 3:10

Instrument :

MSVOA_N

ClientSampled :

30134-39

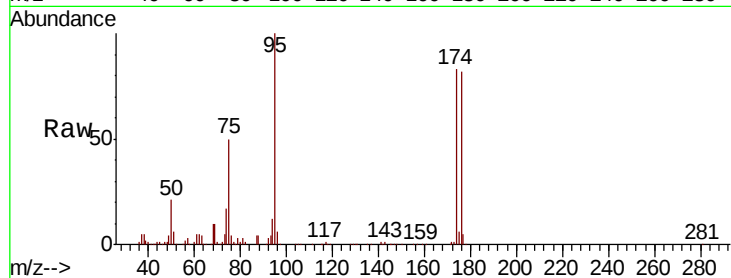
Tot Ion: 95 Resp: 282835

Ion Ratio Lower Upper

95 100

174 84.9 0.0 174.4

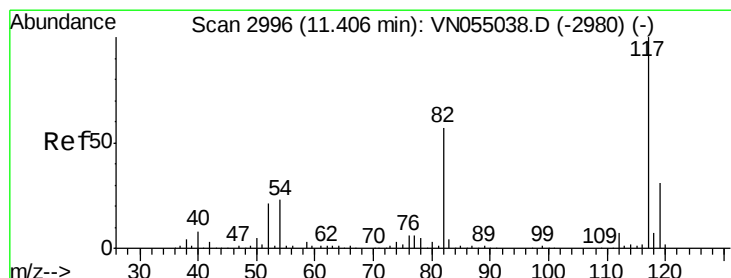
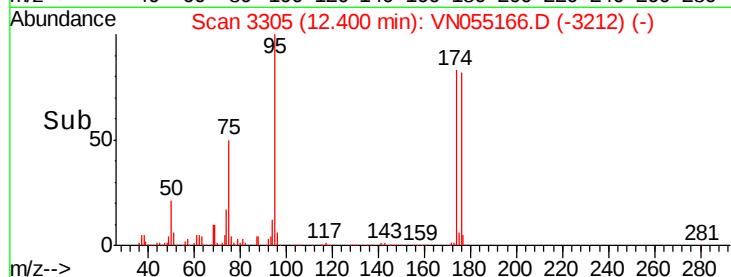
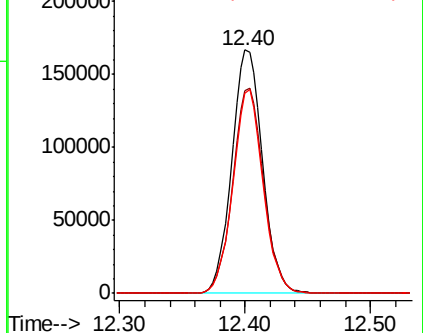
176 82.3 0.0 166.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055166.D

Acq: 20 Apr 2019 3:10

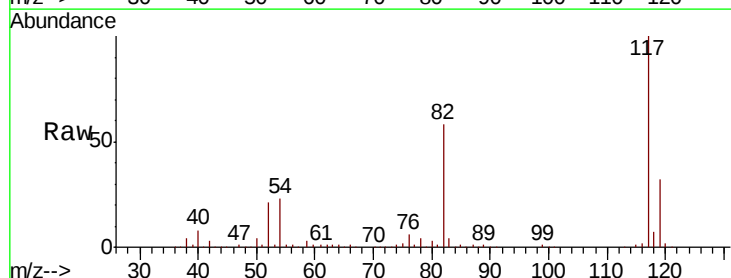
Tgt Ion: 117 Resp: 681530

Ion Ratio Lower Upper

117 100

82 57.6 44.6 66.8

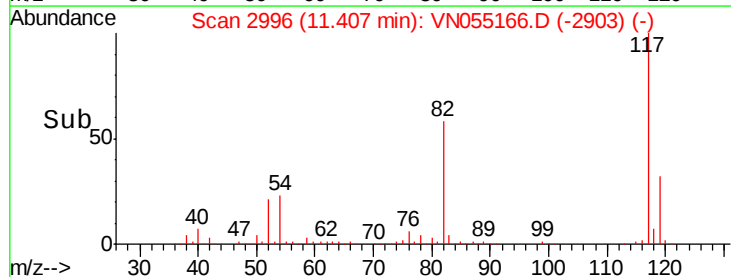
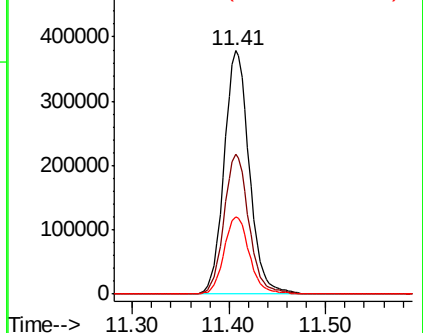
119 32.0 25.5 38.3

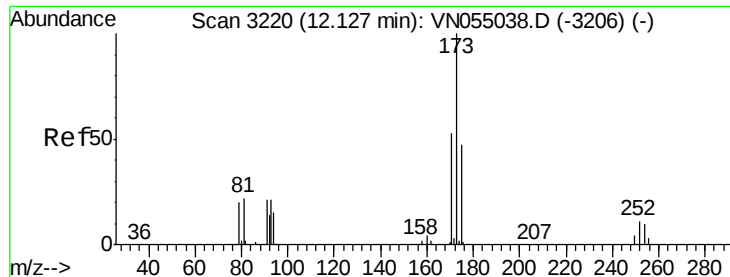


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

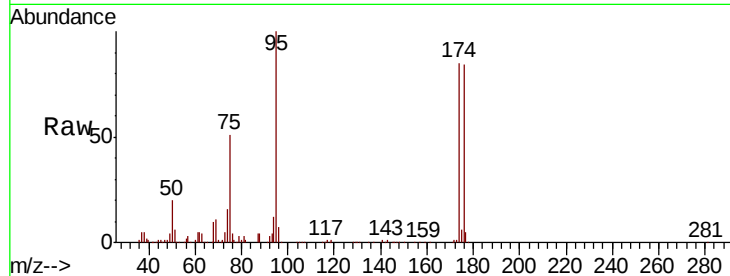




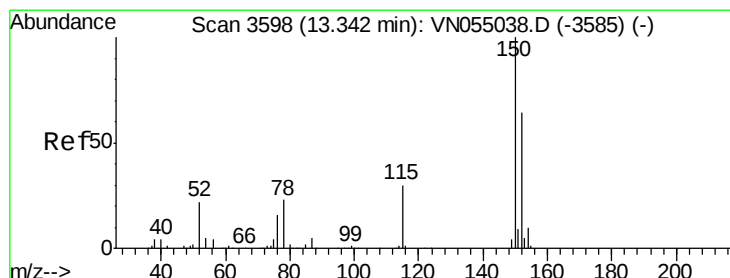
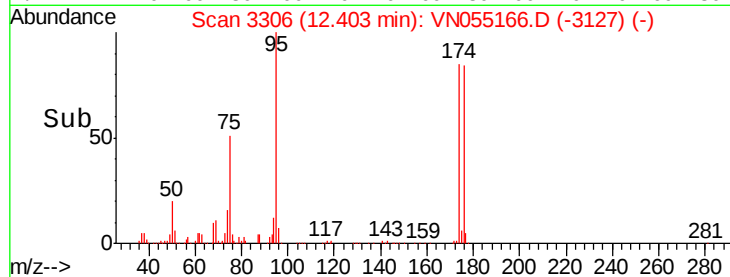
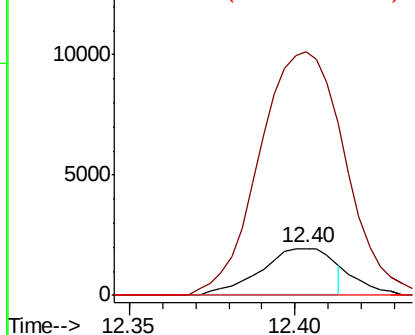
#71
Bromoform
Concen: 1.023 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055166.D
Acq: 20 Apr 2019 3:10

Instrument :
MSVOA_N
ClientSampled :
30134-39

Tot Ion:173 Resp: 2960
Ion Ratio Lower Upper
173 100
175 528.8 24.3 73.0#
254 0.0 0.1 0.1#

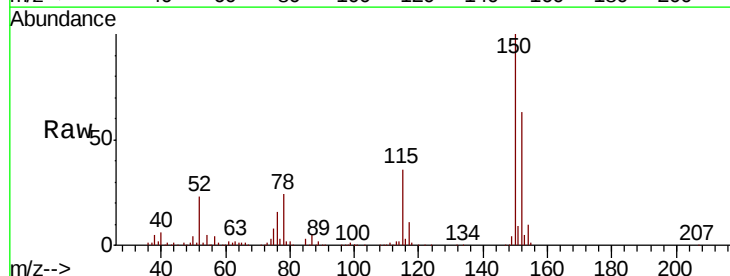


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

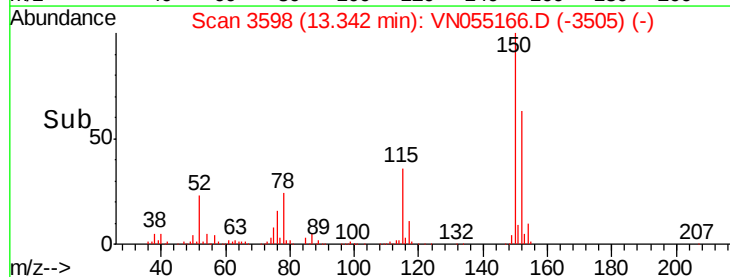
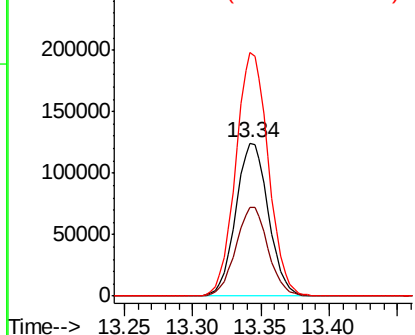


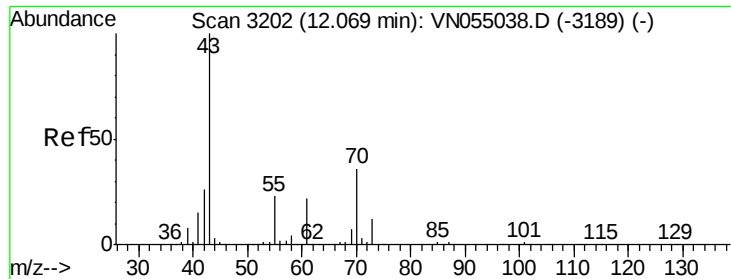
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055166.D
Acq: 20 Apr 2019 3:10

Tgt Ion:152 Resp: 206572
Ion Ratio Lower Upper
152 100
115 57.3 28.5 85.6
150 159.0 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: 3.133 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN055166.D

Acq: 20 Apr 2019 3:10

Instrument :

MSVOA_N

ClientSampleId :

30134-39

Tot Ion: 43 Resp: 16165

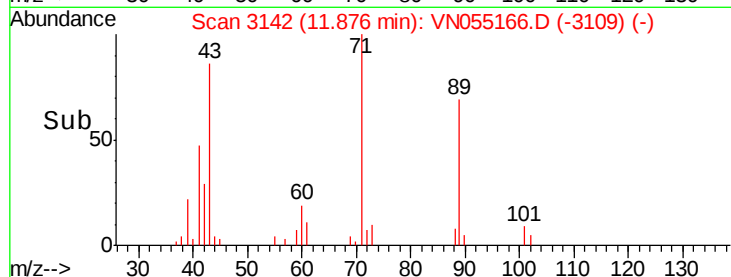
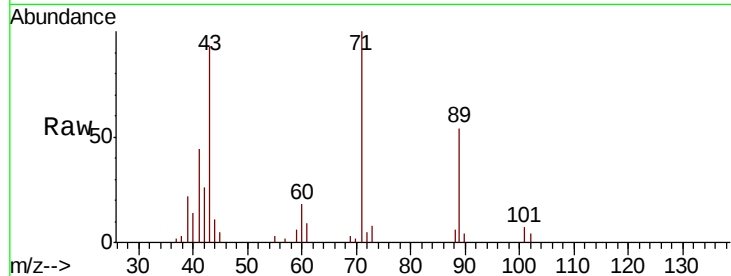
Ion Ratio Lower Upper

43 100

70 2.1 29.4 44.0#

55 2.9 19.0 28.4#

61 9.1 17.7 26.5#

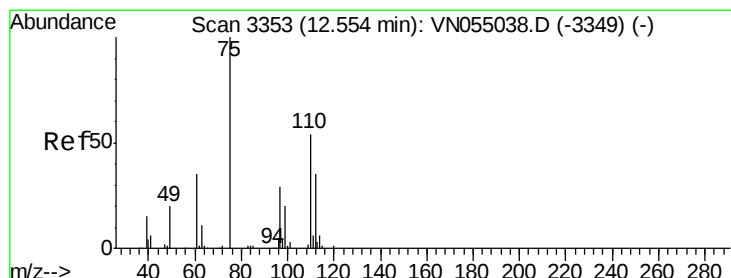
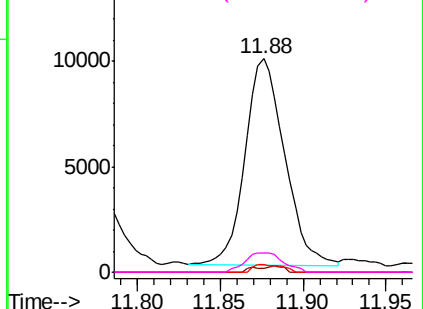


Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 38.343 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055166.D

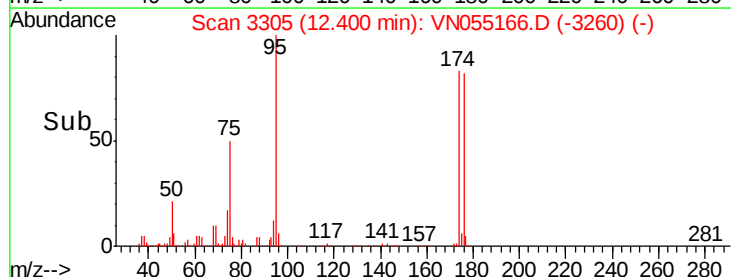
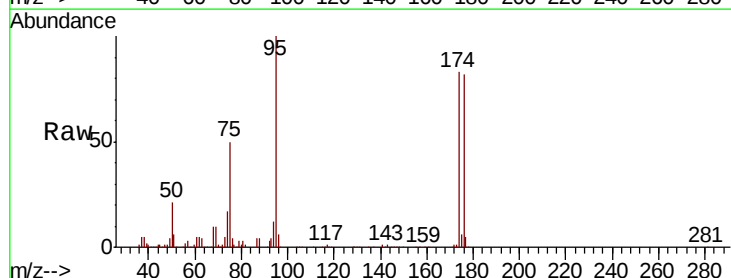
Acq: 20 Apr 2019 3:10

Tgt Ion: 75 Resp: 142433

Ion Ratio Lower Upper

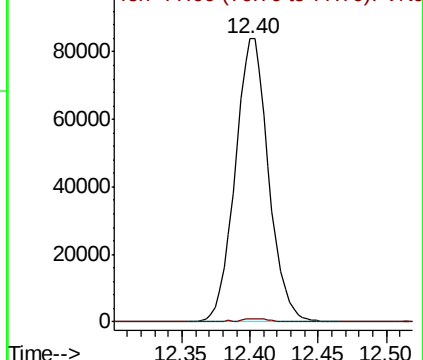
75 100

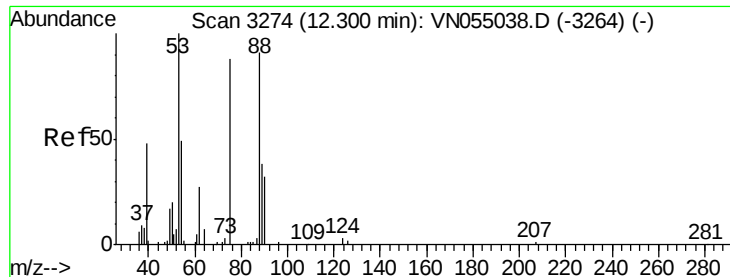
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 153.330 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055166.D

Acq: 20 Apr 2019 3:10

Instrument :

MSVOA_N

ClientSampled :

30134-39

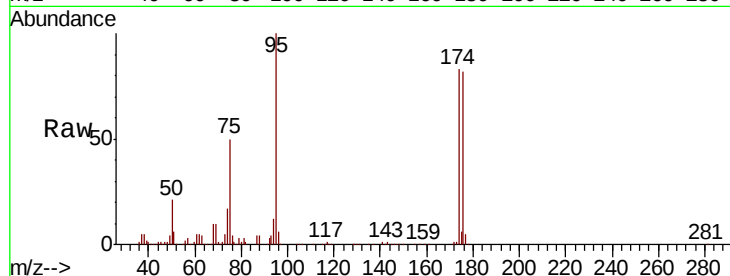
Tot Ion: 75 Resp: 142433

Ion Ratio Lower Upper

75 100

53 0.1 96.3 144.5#

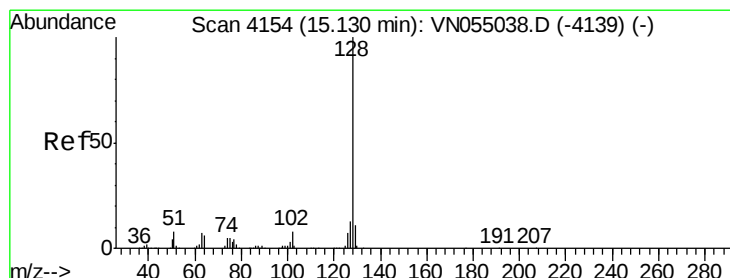
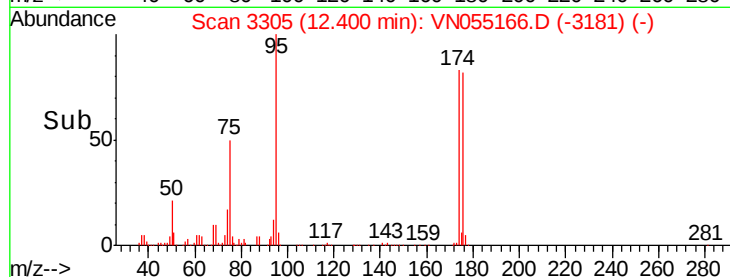
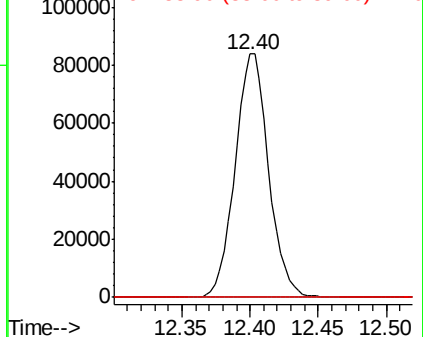
89 0.0 38.6 57.8#



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



#95

Naphthalene

Concen: 3.267 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055166.D

Acq: 20 Apr 2019 3:10

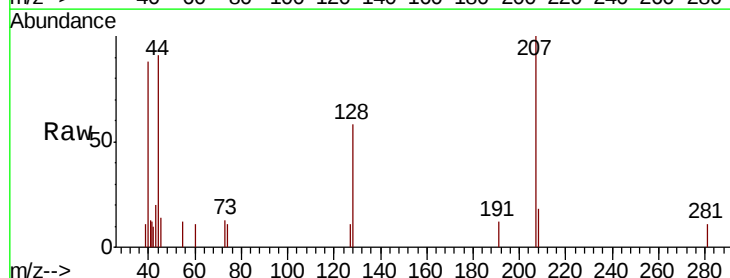
Tgt Ion: 128 Resp: 1478

Ion Ratio Lower Upper

128 100

127 2.0 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

