

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021119\
 Data File : VN053710.D
 Acq On : 11 Feb 2019 17:40
 Operator : JC/SP
 Sample : K1453-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 M-9-S

Quant Time: Feb 11 22:10:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	720469	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1179208	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1066563	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	424013	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	382721	52.95	ug/l	0.00
Spiked Amount			Recovery	=	105.90%	
35) Dibromofluoromethane	7.59	113	378894	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	
50) Toluene-d8	10.09	98	1423661	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
62) 4-Bromofluorobenzene	12.40	95	461033	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	

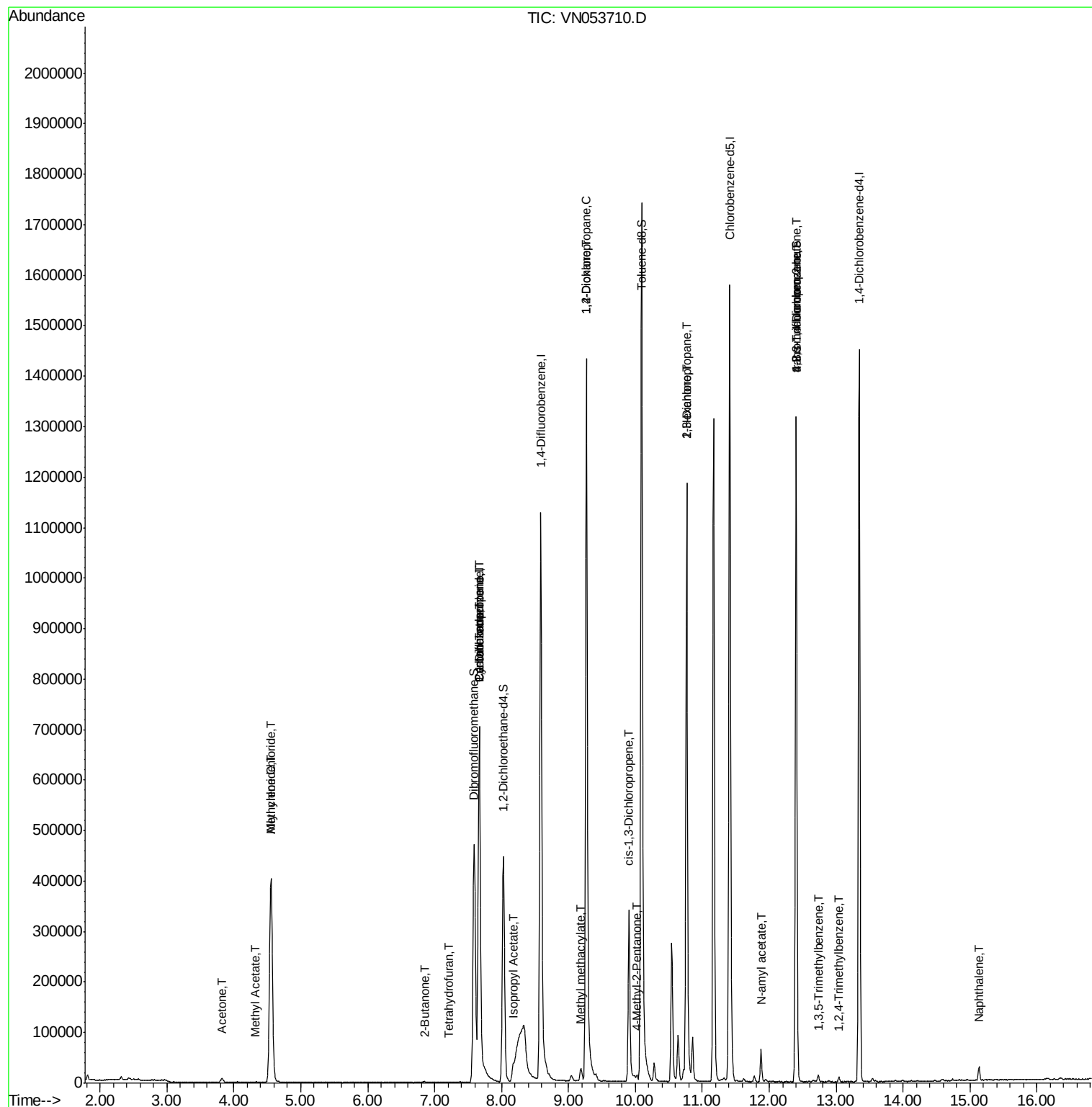
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.55	41	11800	1.111	ug/l #	27
16) Acetone	3.82	43	14944	8.061	ug/l	100
18) Methyl Acetate	4.32	43	3320	0.605	ug/l #	57
20) Methylene Chloride	4.55	84	324328	41.698	ug/l	98
25) 2-Butanone	6.85	43	4358	1.648	ug/l #	84
29) Tetrahydrofuran	7.21	42	616	0.363	ug/l #	65
31) Cyclohexane	7.67	56	10277	0.674	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	42184	3.968	ug/l #	48
38) Carbon Tetrachloride	7.67	117	56545	5.280	ug/l #	16
43) Isopropyl Acetate	8.17	43	38696	3.375	ug/l #	79
45) 1,2-Dichloropropane	9.27	63	1881	0.224	ug/l #	43
48) Methyl methacrylate	9.18	41	10437	1.907	ug/l #	12
49) 1,4-Dioxane	9.27	88	62	39.849	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	8216	1.458	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	72271	5.796	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	13738	1.147	ug/l #	43
59) 2-Hexanone	10.77	43	178582	46.691	ug/l #	50
74) N-amyl acetate	11.88	43	18499	2.581	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	212607	39.038	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	6933	0.280	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	212607	109.771	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	6726	0.267	ug/l	93
95) Naphthalene	15.13	128	23133	2.935	ug/l	99

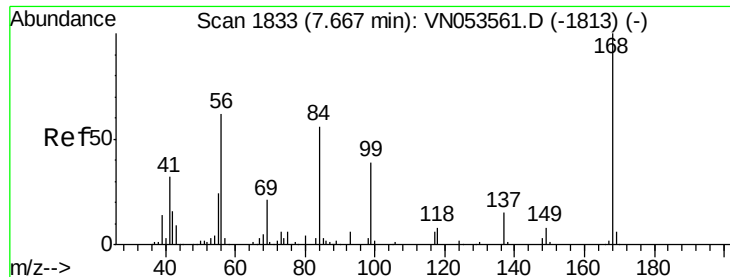
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 11 22:10:56 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

Instrument :

MSVOA_N

ClientSampled :

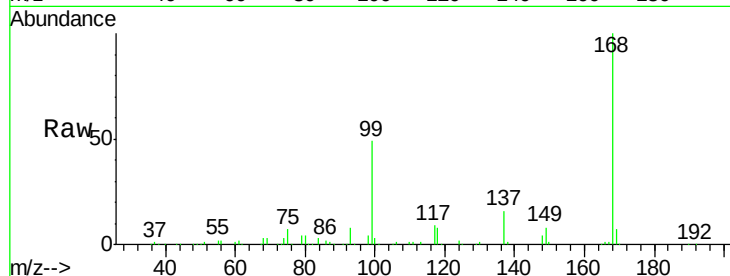
M-9-S

Tot Ion:168 Resp: 720469

Ion Ratio Lower Upper

168 100

99 49.0 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

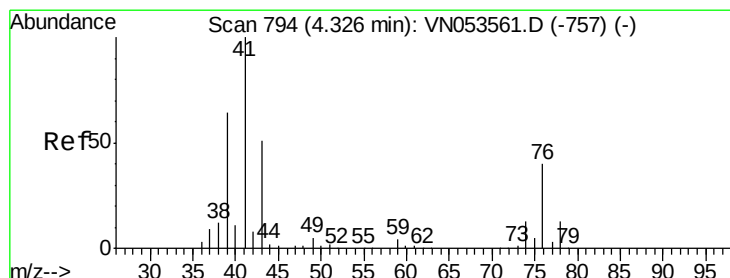
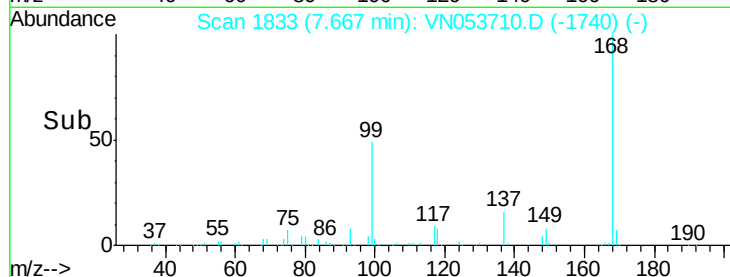
100000

50000

0

7.60 7.80 8.00

Time-->



#14

Allyl chloride

Concen: 1.111 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.23 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

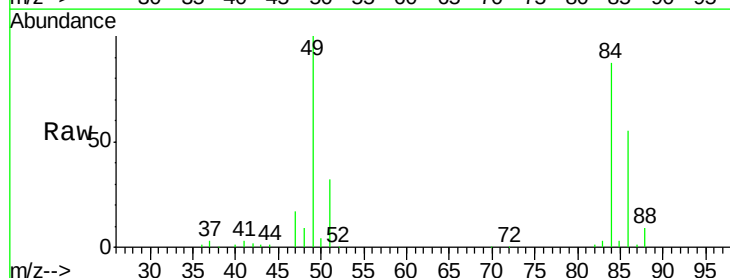
Tgt Ion: 41 Resp: 11800

Ion Ratio Lower Upper

41 100

39 0.0 48.9 73.3#

76 0.0 29.4 44.2#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

4.55

5000

4000

3000

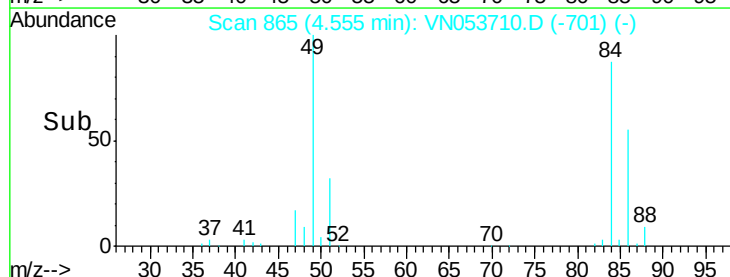
2000

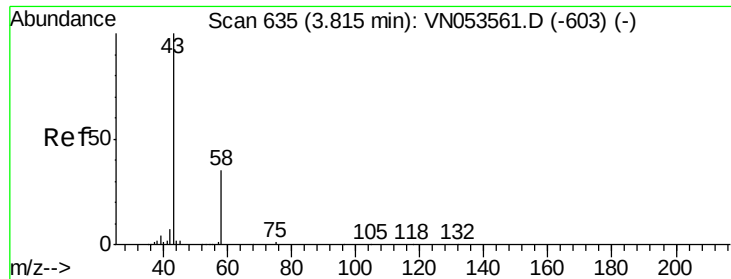
1000

0

4.45 4.50 4.55 4.60 4.65

Time-->





#16

Acetone

Concen: 8.061 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

Instrument :

MSVOA_N

ClientSampled :

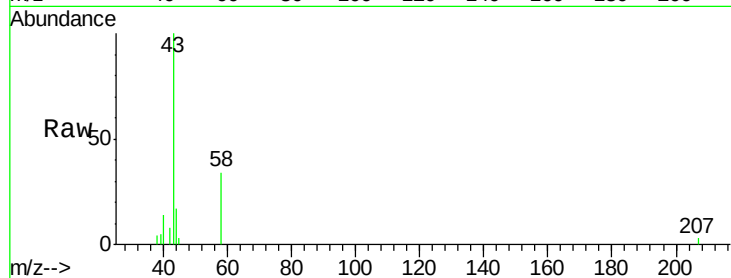
M-9-S

Tot Ion: 43 Resp: 14944

Ion Ratio Lower Upper

43 100

58 33.9 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

6000

5000

4000

3000

2000

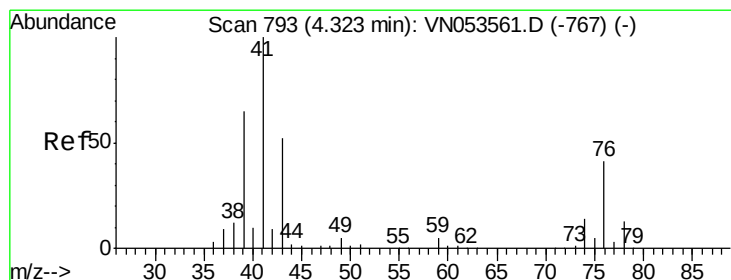
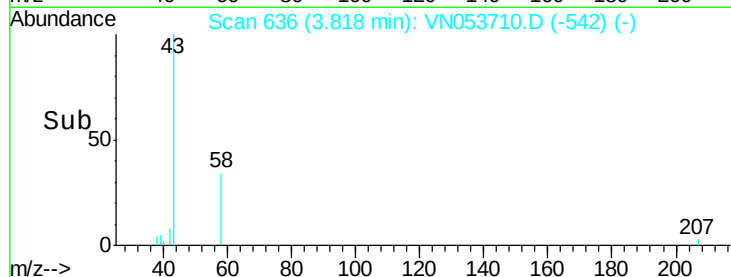
1000

0

Time-->

3.75 3.80 3.85 3.90

3.82



#18

Methyl Acetate

Concen: 0.605 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.00 min

Lab File: VN053710.D

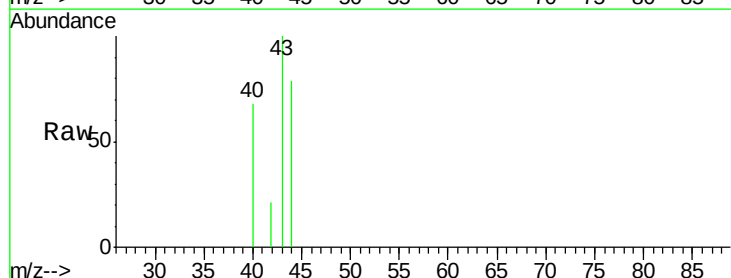
Acq: 11 Feb 2019 17:40

Tgt Ion: 43 Resp: 3320

Ion Ratio Lower Upper

43 100

74 3.2 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

1000

800

600

400

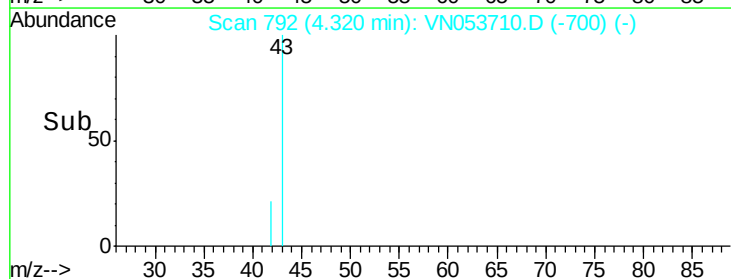
200

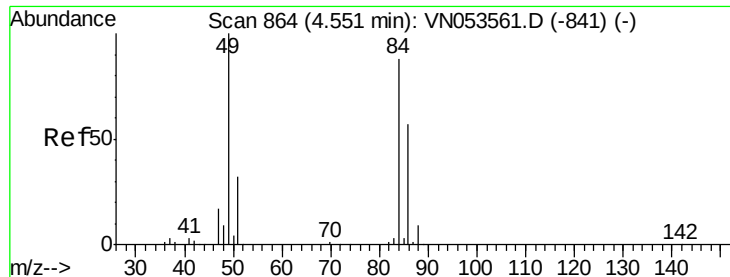
0

Time-->

4.25 4.30 4.35 4.40

4.32

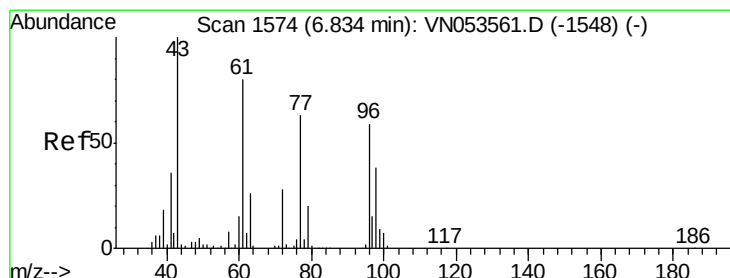
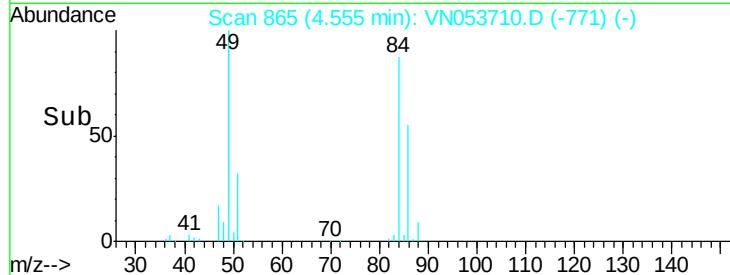
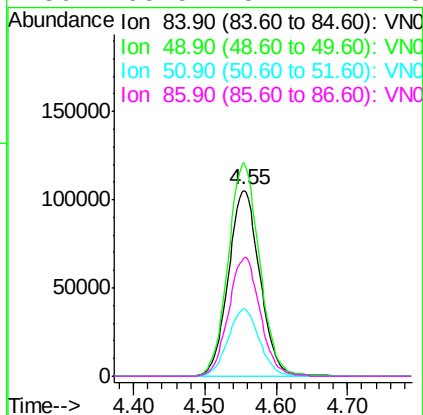
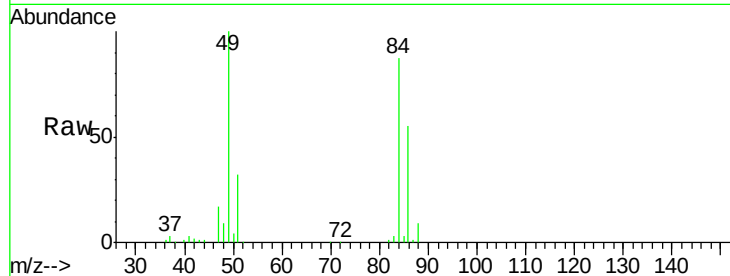




#20
Methylene Chloride
Concen: 41.698 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053710.D
Acq: 11 Feb 2019 17:40

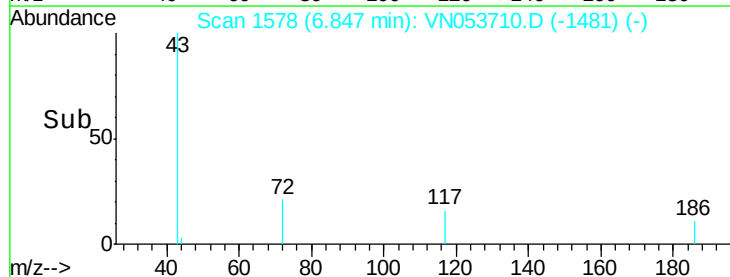
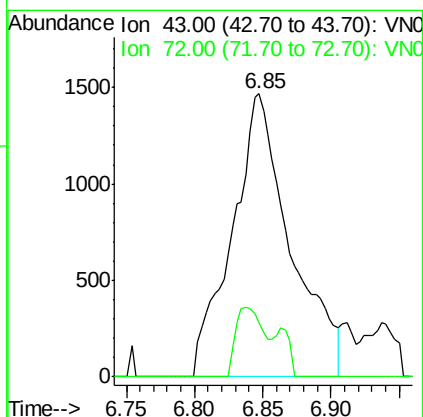
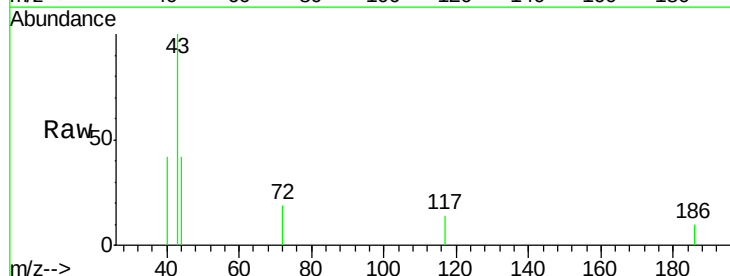
Instrument :
MSVOA_N
ClientSampled :
M-9-S

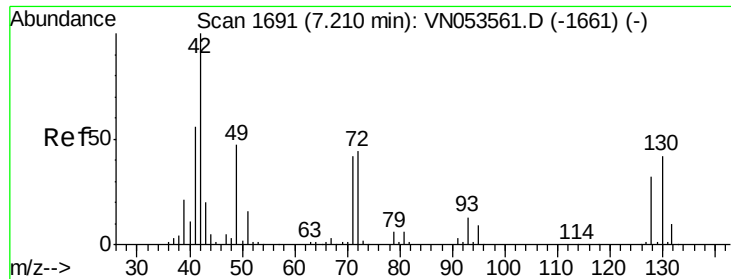
Tot Ion: 84 Resp: 324328
Ion Ratio Lower Upper
84 100
49 114.8 94.3 141.5
51 36.8 29.4 44.2
86 63.5 51.4 77.0



#25
2-Butanone
Concen: 1.648 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN053710.D
Acq: 11 Feb 2019 17:40

Tgt Ion: 43 Resp: 4358
Ion Ratio Lower Upper
43 100
72 19.2 22.0 33.0#





#29

Tetrahydrofuran

Concen: 0.363 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

Instrument :

MSVOA_N

ClientSampled :

M-9-S

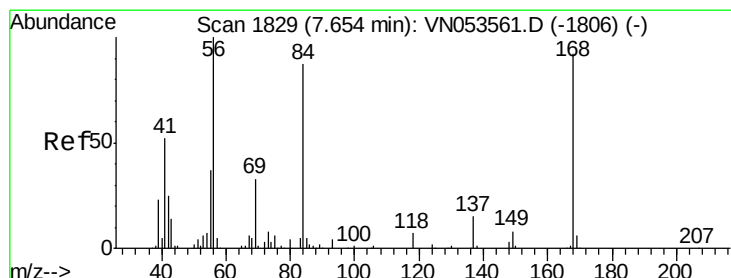
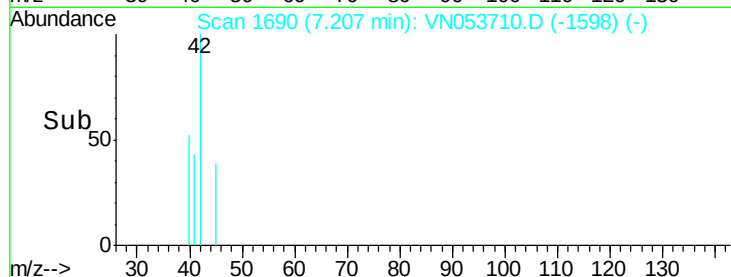
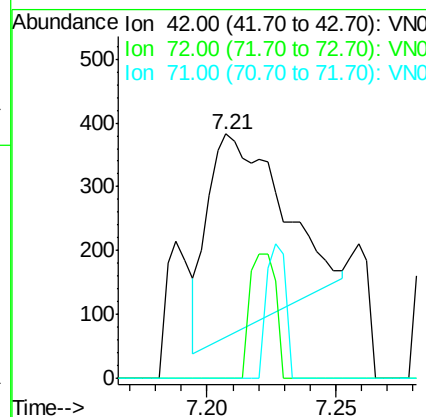
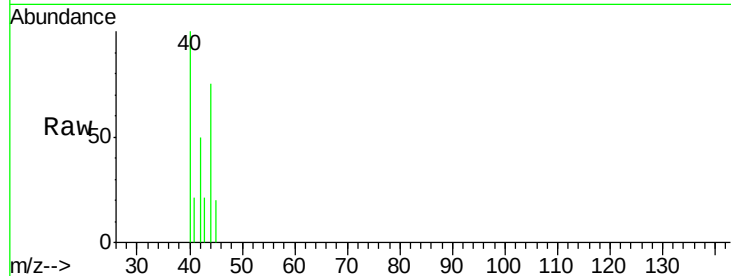
Tot Ion: 42 Resp: 616

Ion Ratio Lower Upper

42 100

72 22.2 35.2 52.8#

71 18.0 33.0 49.4#



#31

Cyclohexane

Concen: 0.674 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

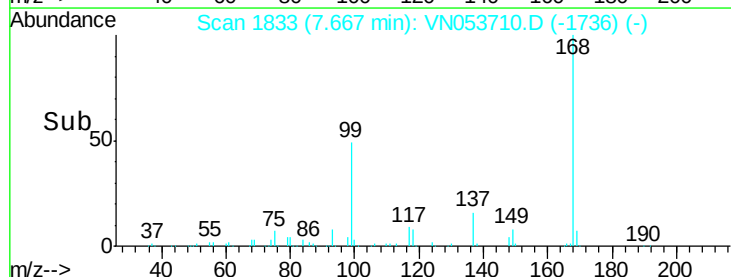
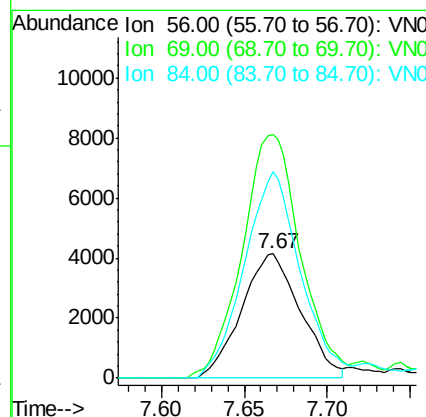
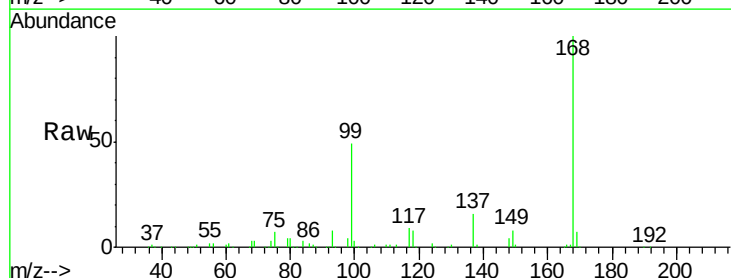
Tgt Ion: 56 Resp: 10277

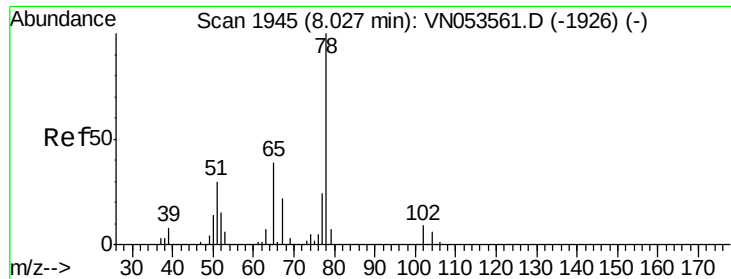
Ion Ratio Lower Upper

56 100

69 191.9 26.4 39.6#

84 165.9 67.9 101.9#

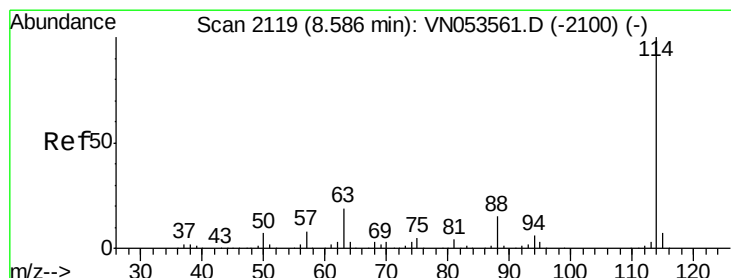
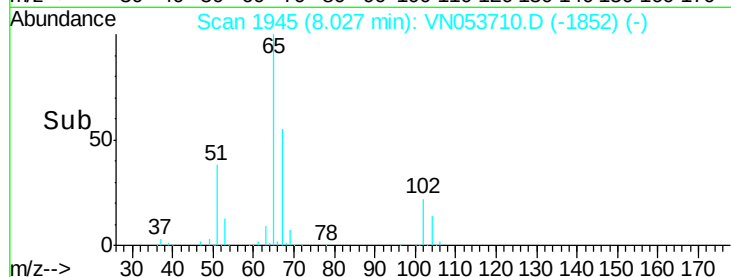
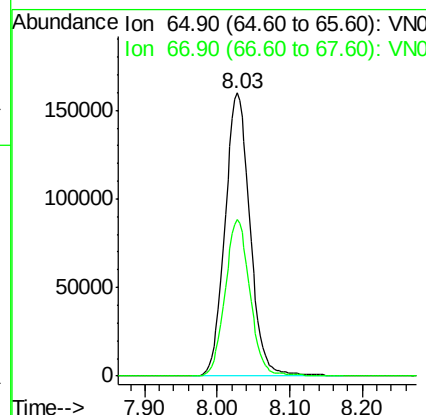
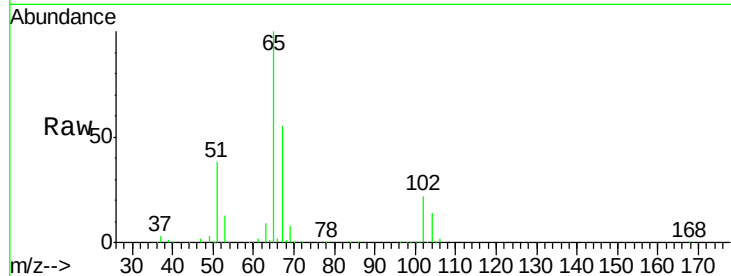




#33
 1,2-Dichloroethane-d4
 Concen: 52.952 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053710.D
 Acq: 11 Feb 2019 17:40

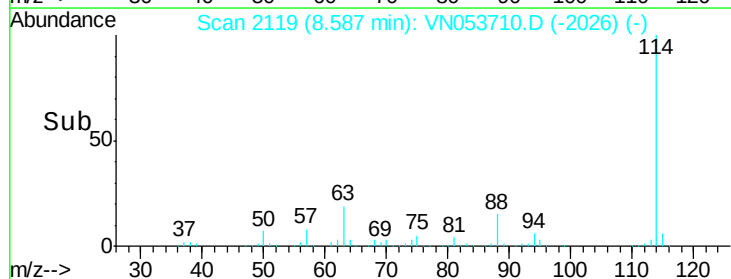
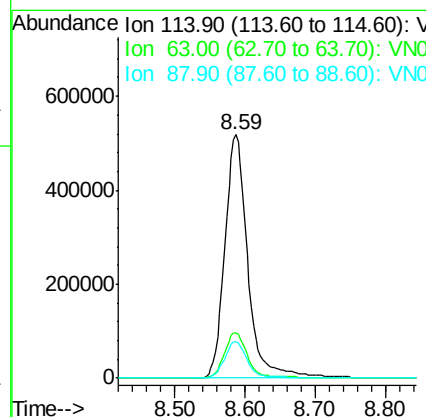
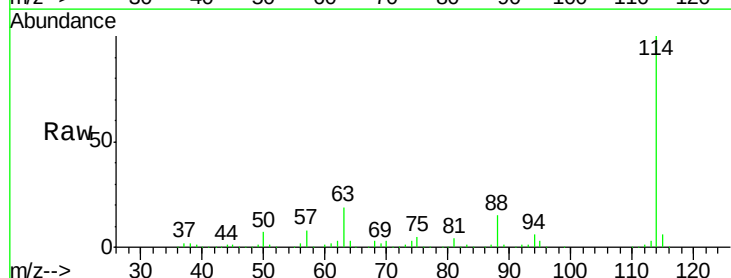
Instrument :
 MSVOA_N
 ClientSampleId :
 M-9-S

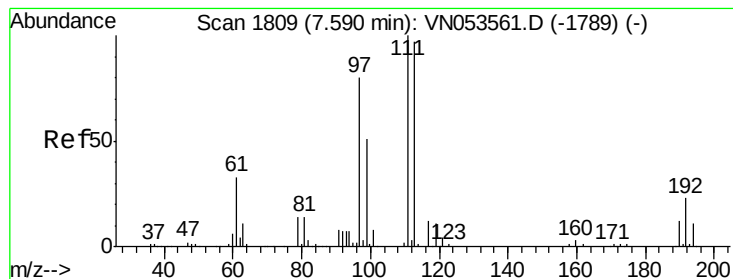
Tot Ion: 65 Resp: 382721
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053710.D
 Acq: 11 Feb 2019 17:40

Tgt Ion: 114 Resp: 1179208
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 38.6
 88 14.9 0.0 30.4





#35

Dibromofluoromethane

Concen: 50.851 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

Instrument :

MSVOA_N

ClientSampleId :

M-9-S

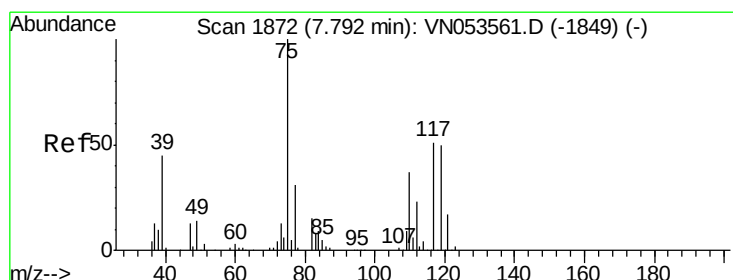
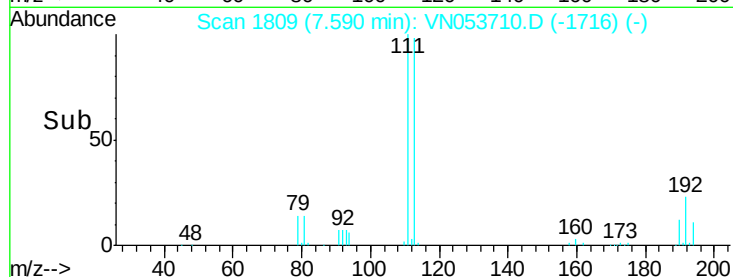
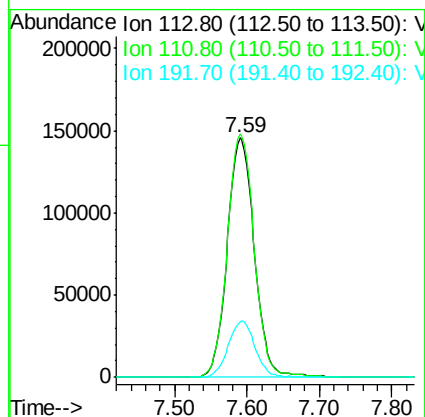
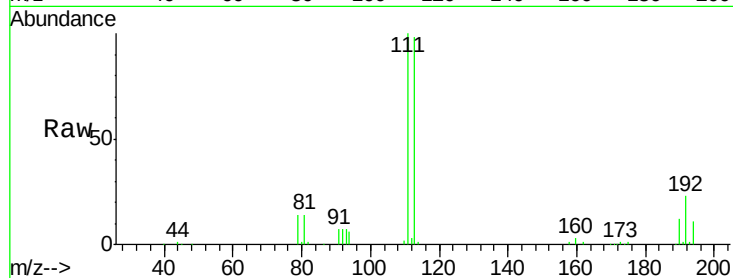
Tot Ion:113 Resp: 378894

Ion Ratio Lower Upper

113 100

111 101.2 81.1 121.7

192 23.3 18.2 27.2



#36

1,1-Dichloropropene

Concen: 3.968 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

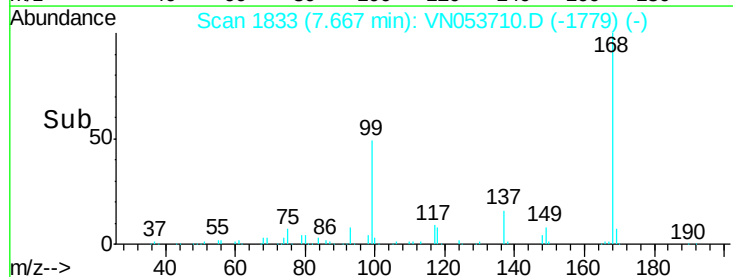
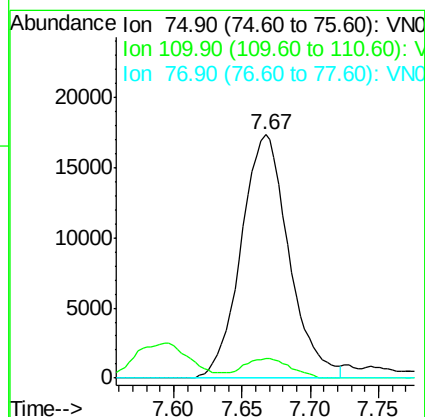
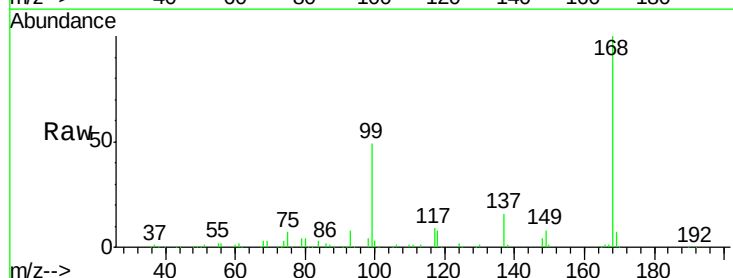
Tgt Ion: 75 Resp: 42184

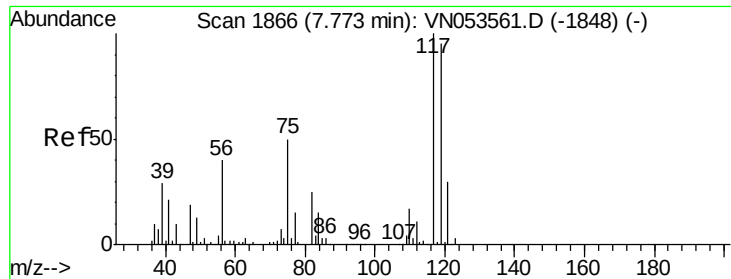
Ion Ratio Lower Upper

75 100

110 7.9 18.1 54.3#

77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.280 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

Instrument :

MSVOA_N

ClientSampled :

M-9-S

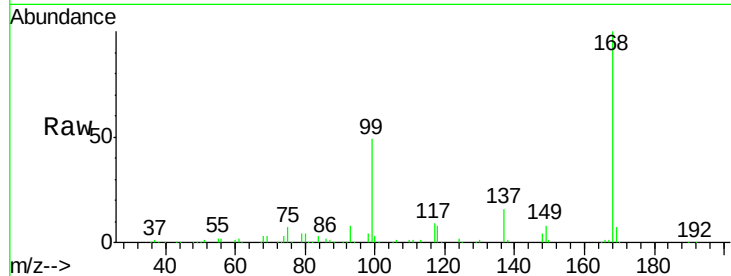
Tot Ion:117 Resp: 56545

Ion Ratio Lower Upper

117 100

119 5.4 77.2 115.8#

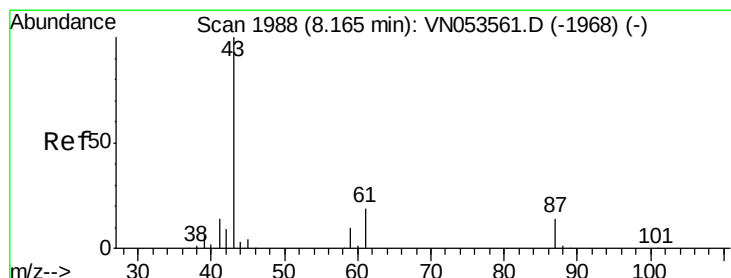
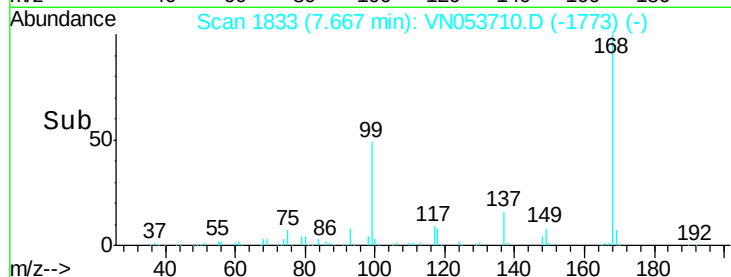
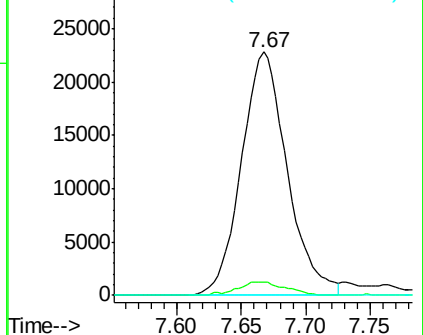
121 0.0 24.6 37.0#



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: 3.375 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

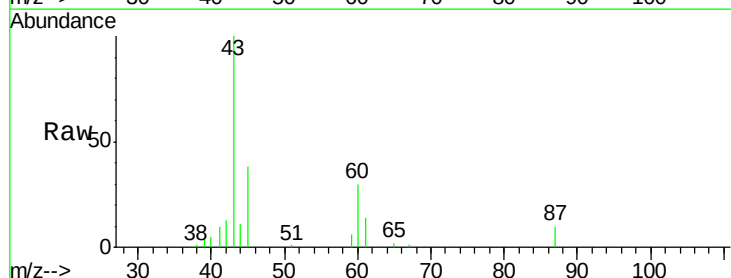
Tgt Ion: 43 Resp: 38696

Ion Ratio Lower Upper

43 100

61 16.4 23.9 35.9#

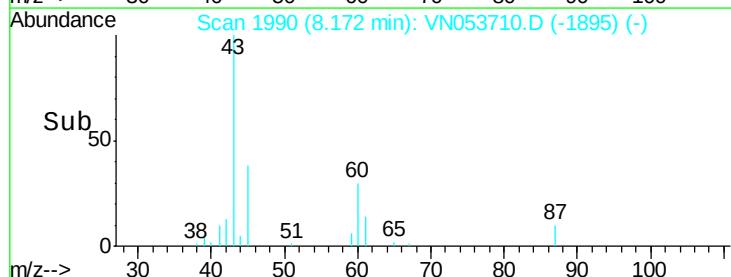
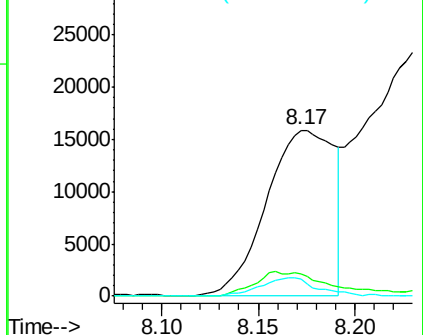
87 9.1 11.0 16.6#

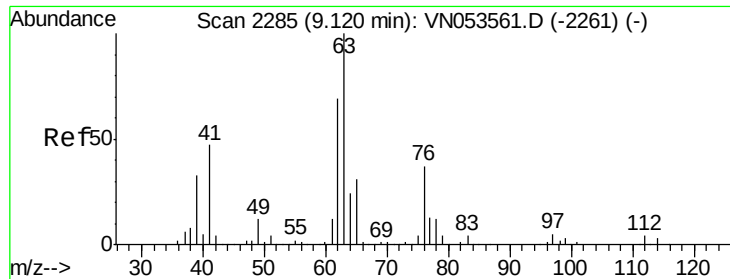


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

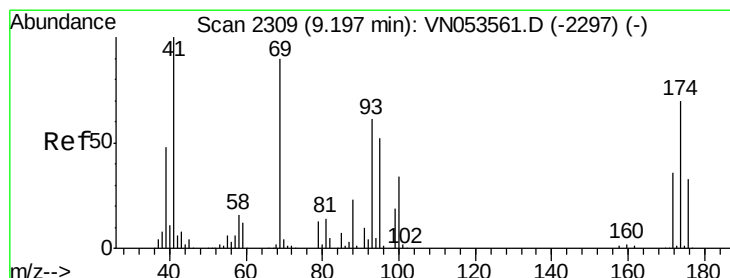
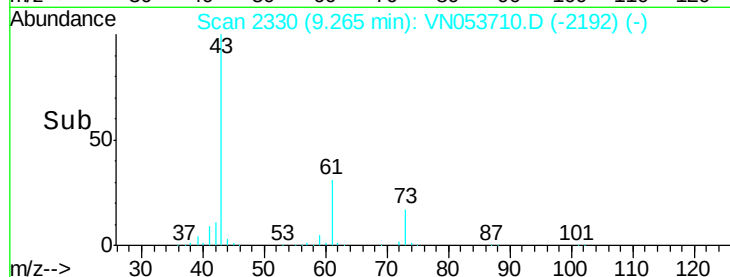
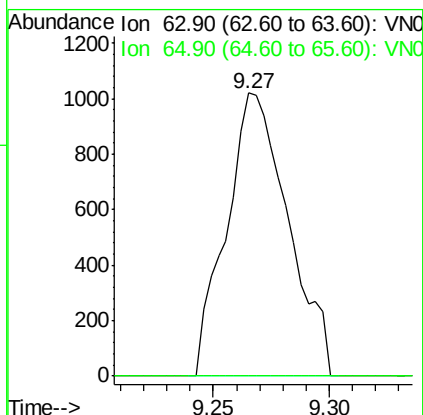
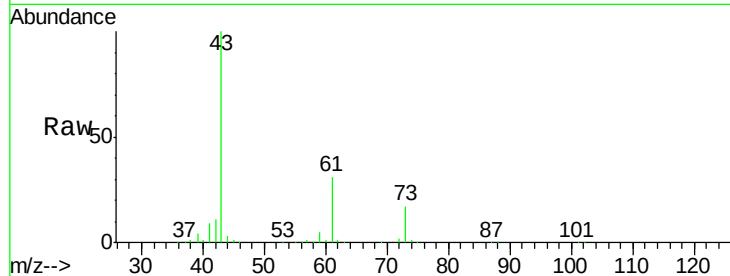




#45
 1,2-Dichloropropane
 Concen: 0.224 ug/l
 RT: 9.27 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN053710.D
 Acq: 11 Feb 2019 17:40

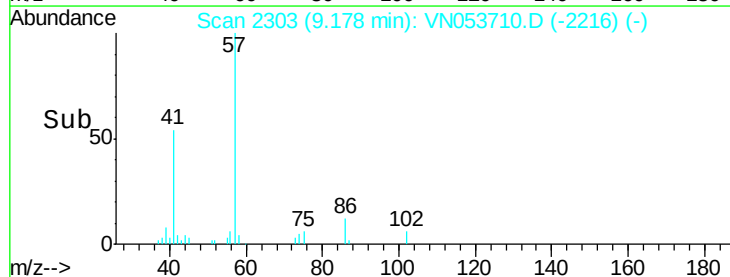
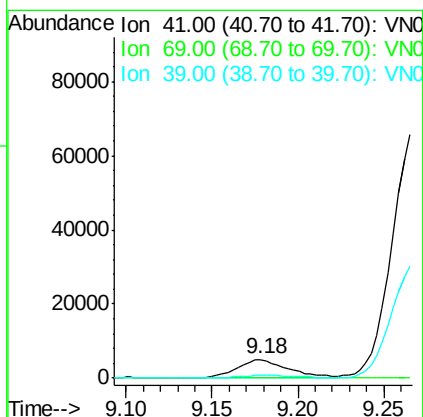
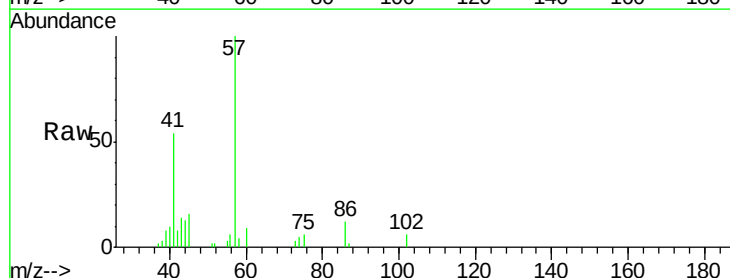
Instrument :
 MSVOA_N
 ClientSampled :
 M-9-S

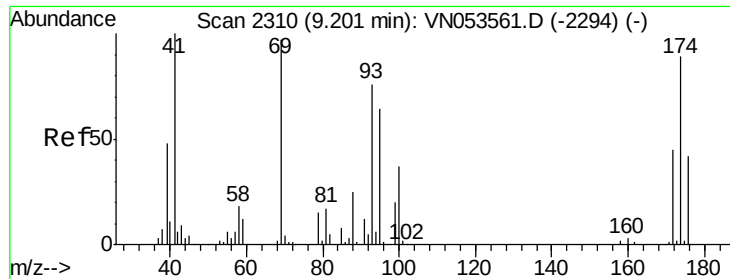
Tot Ion: 63 Resp: 1881
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.907 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053710.D
 Acq: 11 Feb 2019 17:40

Tgt Ion: 41 Resp: 10437
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#





#49

1,4-Dioxane

Concen: 39.849 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

Instrument :

MSVOA_N

ClientSampled :

M-9-S

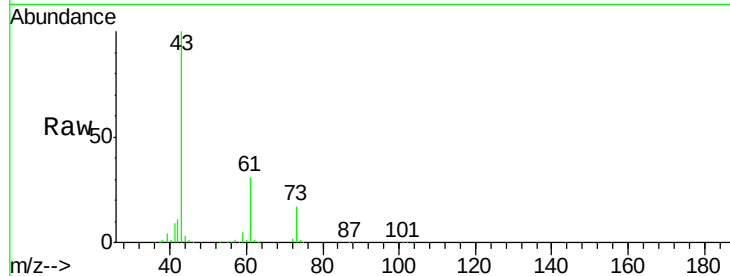
Tot Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 2502617.7 27.8 41.6#

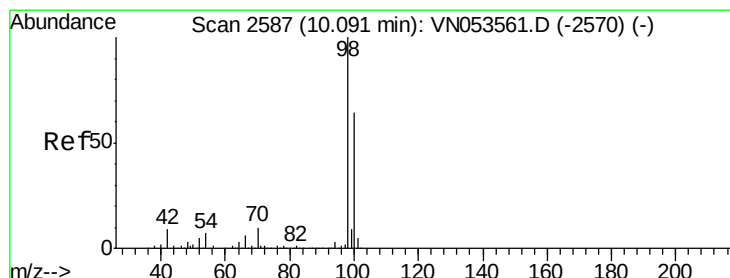
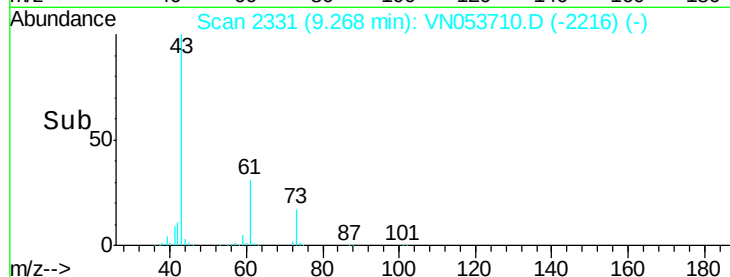
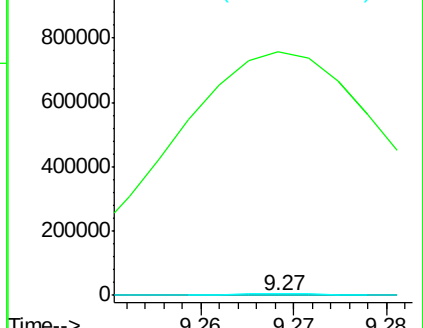
58 11758.1 56.5 84.7#



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: 50.886 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053710.D

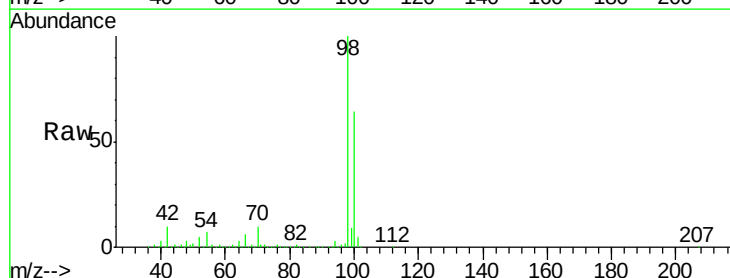
Acq: 11 Feb 2019 17:40

Tgt Ion: 98 Resp: 1423661

Ion Ratio Lower Upper

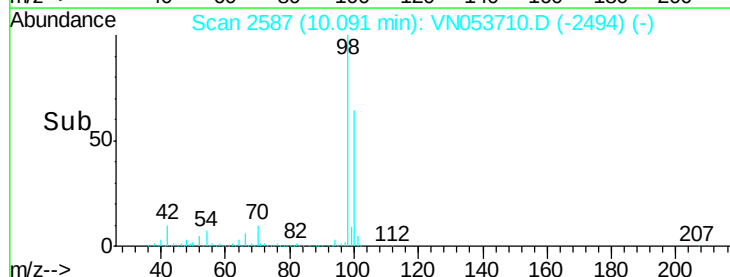
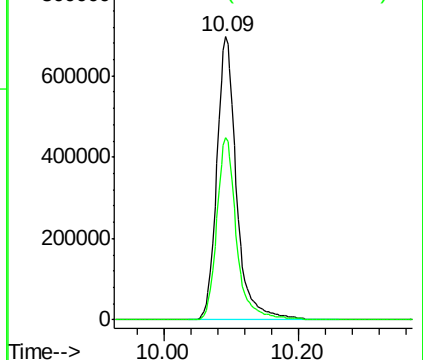
98 100

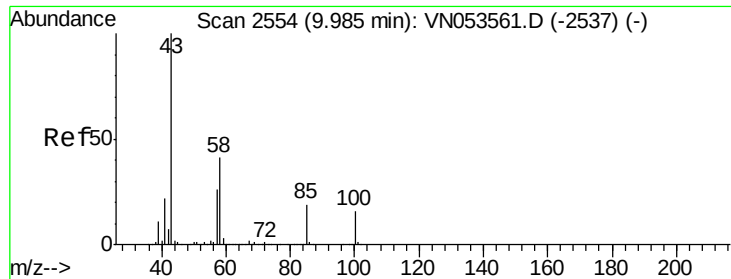
100 64.4 51.4 77.0



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: 1.458 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

Instrument :

MSVOA_N

ClientSampled :

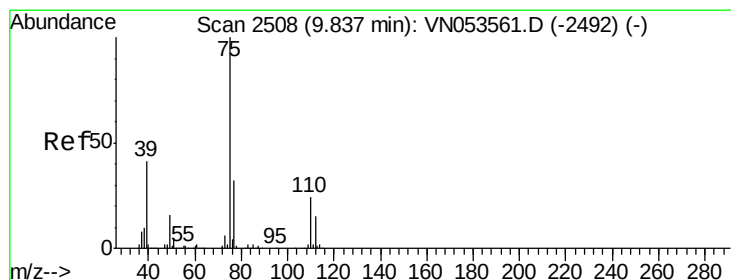
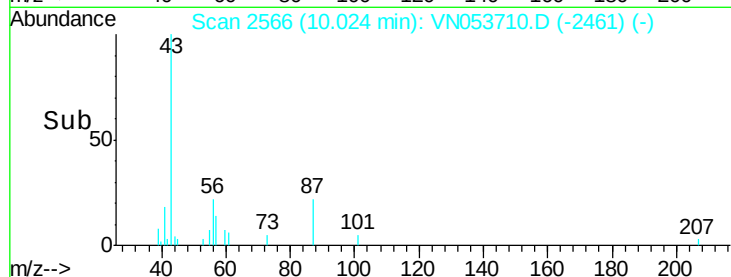
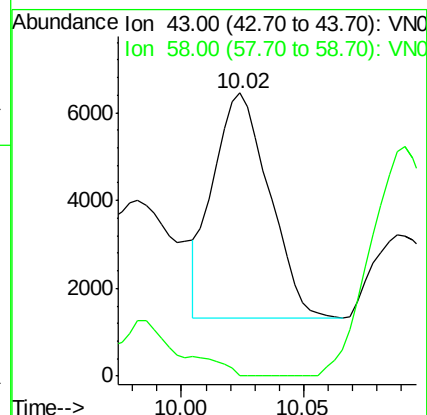
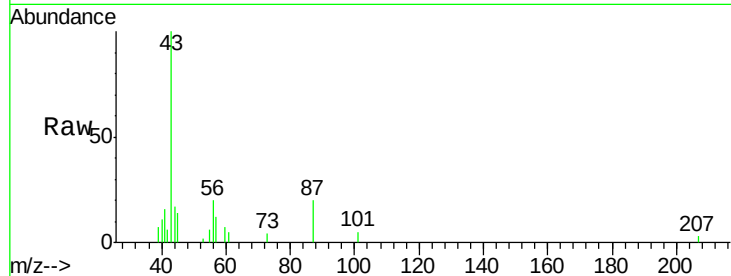
M-9-S

Tot Ion: 43 Resp: 8216

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



#54

cis-1,3-Dichloropropene

Concen: 5.796 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

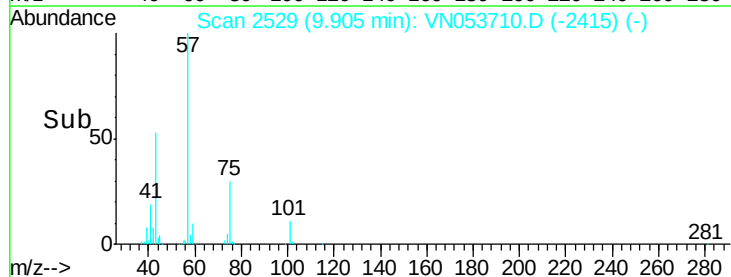
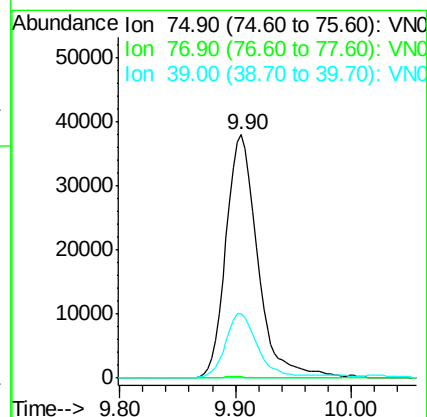
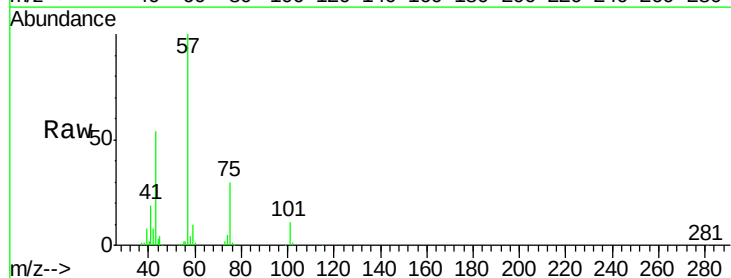
Tgt Ion: 75 Resp: 72271

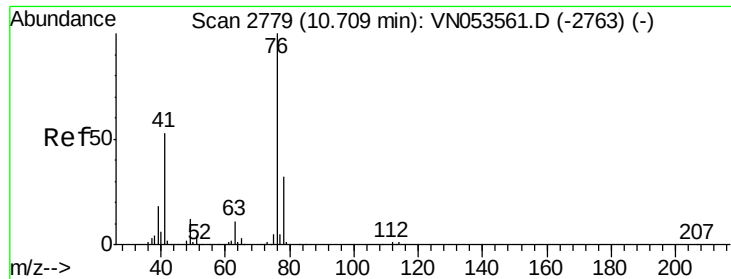
Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.6#

39 26.6 33.4 50.0#





#57

1,3-Dichloropropane

Concen: 1.147 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

Instrument :

MSVOA_N

ClientSampled :

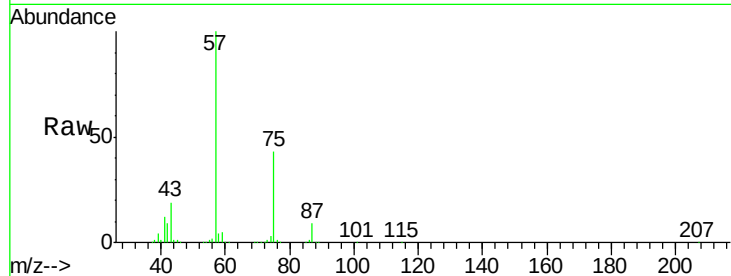
M-9-S

Tot Ion: 76 Resp: 13738

Ion Ratio Lower Upper

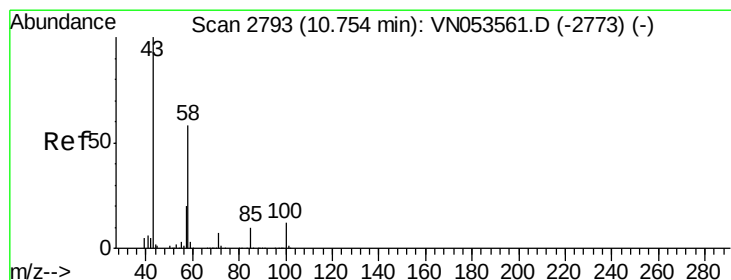
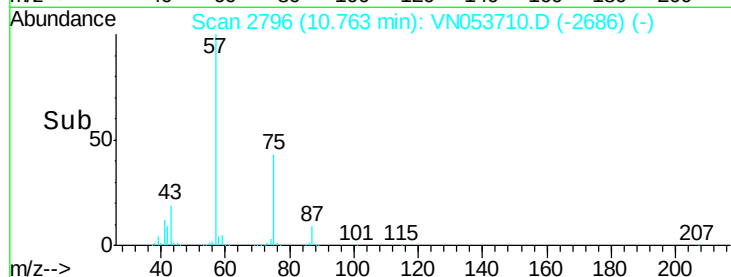
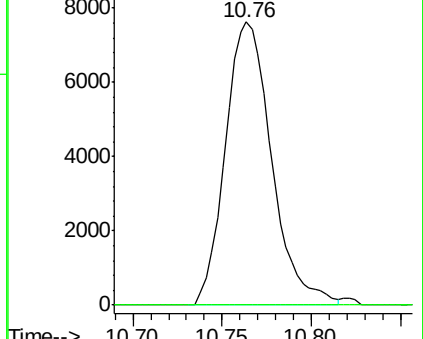
76 100

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: 46.691 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN053710.D

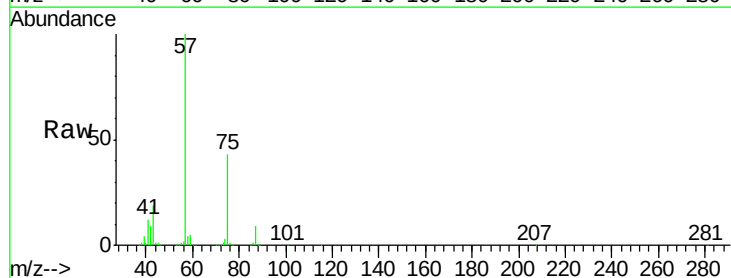
Acq: 11 Feb 2019 17:40

Tgt Ion: 43 Resp: 178582

Ion Ratio Lower Upper

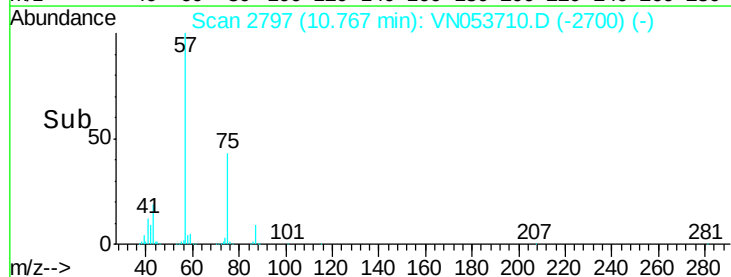
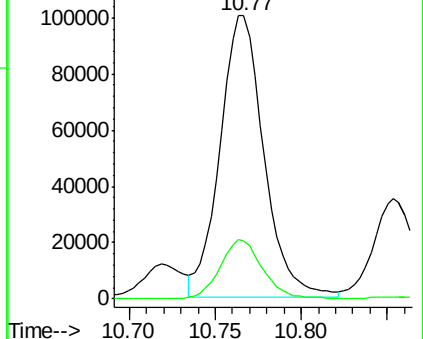
43 100

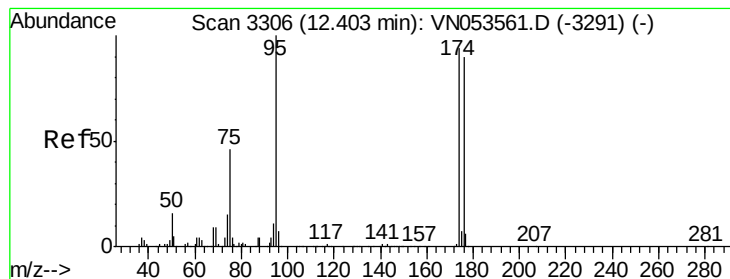
58 20.6 28.6 85.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 49.409 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

Instrument :

MSVOA_N

ClientSampleId :

M-9-S

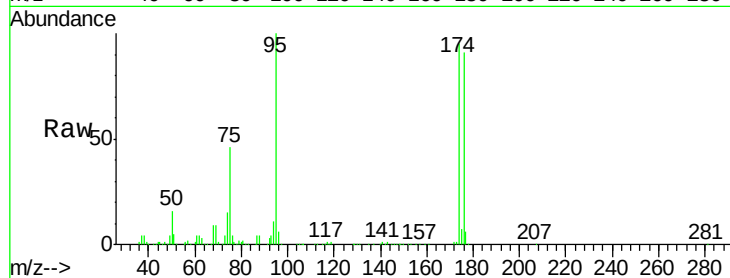
Tot Ion: 95 Resp: 461033

Ion Ratio Lower Upper

95 100

174 93.9 0.0 183.2

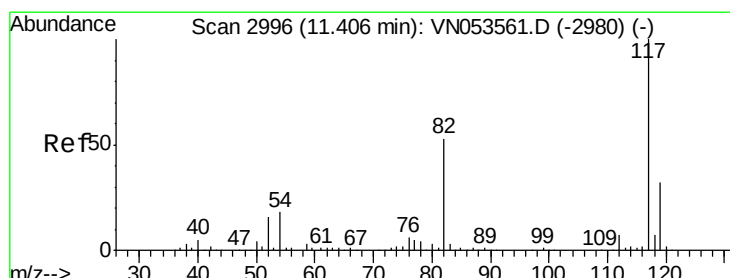
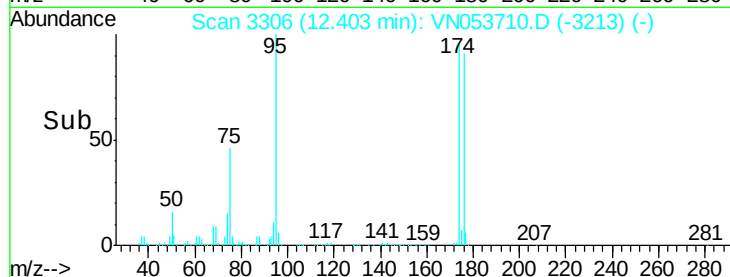
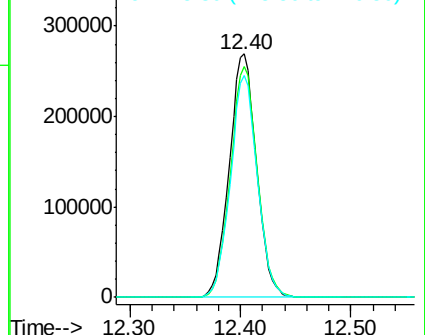
176 89.9 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053710.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN053710.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN053710.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

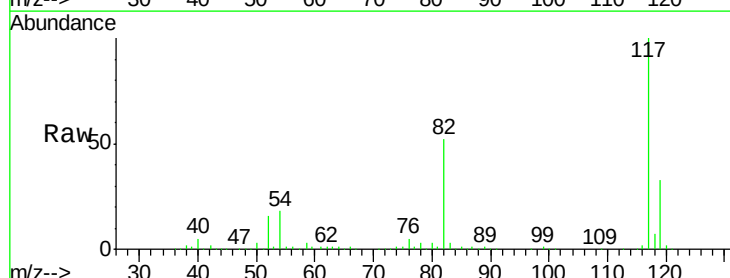
Tgt Ion: 117 Resp: 1066563

Ion Ratio Lower Upper

117 100

82 52.0 42.9 64.3

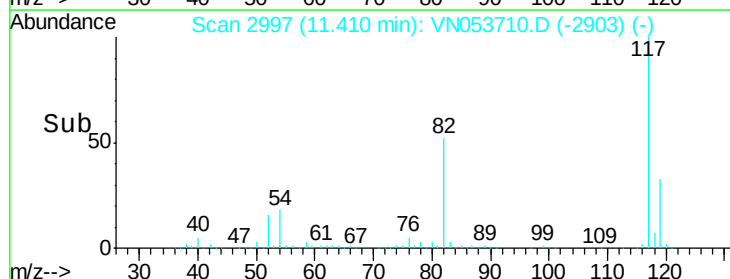
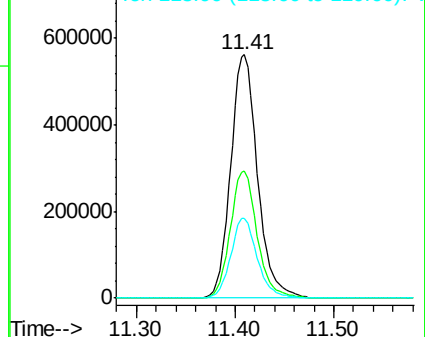
119 33.0 26.0 39.0

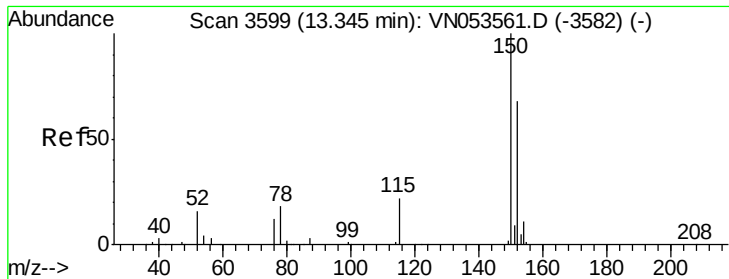


Abundance Ion 116.90 (116.60 to 117.60): VN053710.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN053710.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN053710.D (-2903) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

Instrument :

MSVOA_N

ClientSampled :

M-9-S

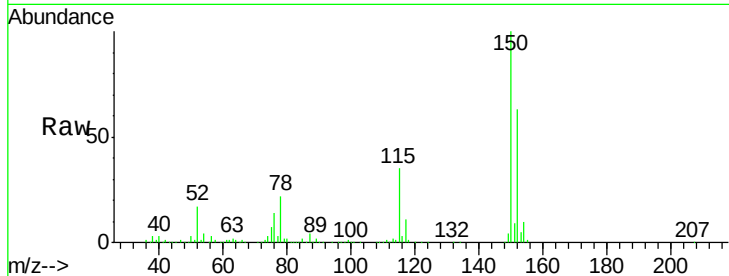
Tot Ion:152 Resp: 424013

Ion Ratio Lower Upper

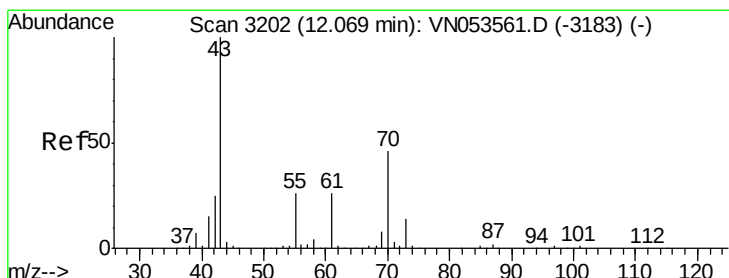
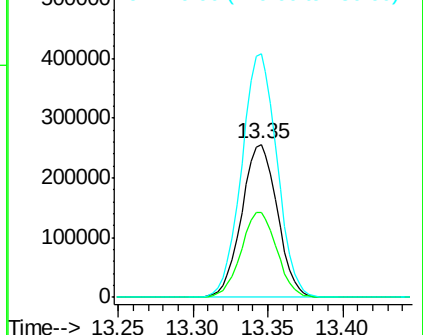
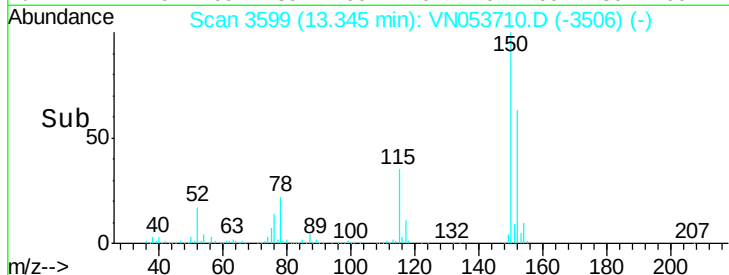
152 100

115 55.7 27.8 83.4

150 158.4 0.0 349.0



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: 2.581 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

Tgt Ion: 43 Resp: 18499

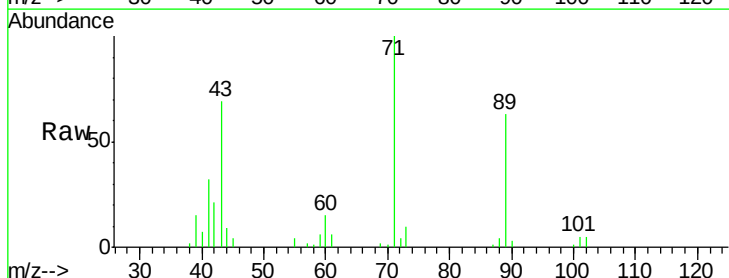
Ion Ratio Lower Upper

43 100

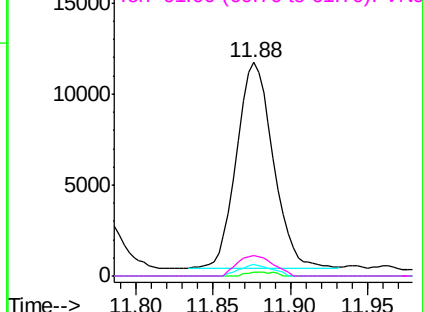
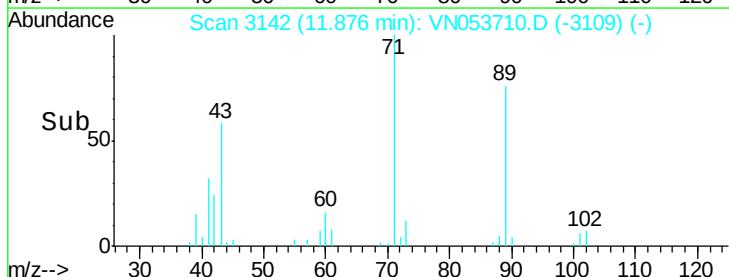
70 1.5 35.4 53.2#

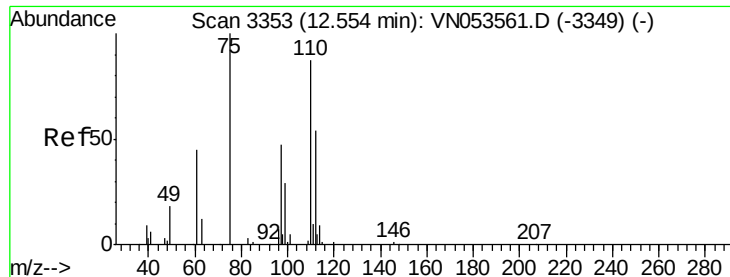
55 4.9 20.9 31.3#

61 9.7 20.5 30.7#



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





#76

1,2,3-Trichloropropane

Concen: 39.038 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

Instrument :

MSVOA_N

ClientSampleId :

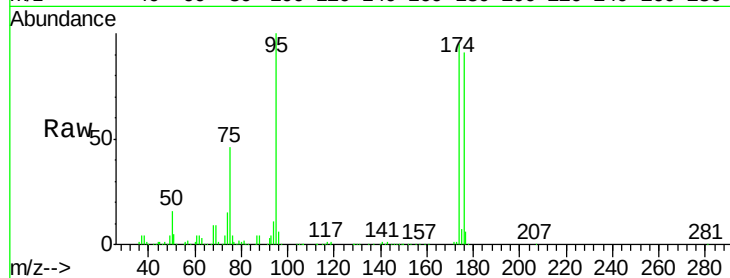
M-9-S

Tot Ion: 75 Resp: 212607

Ion Ratio Lower Upper

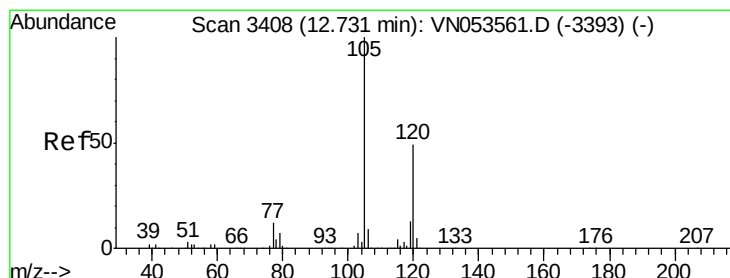
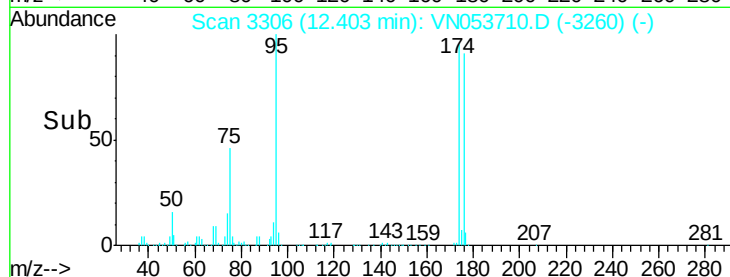
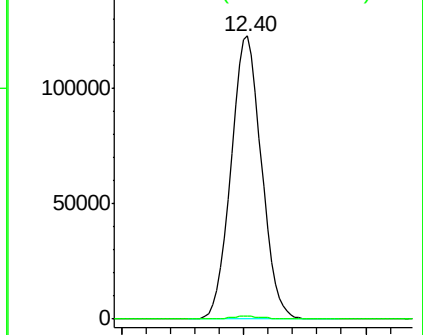
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.280 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053710.D

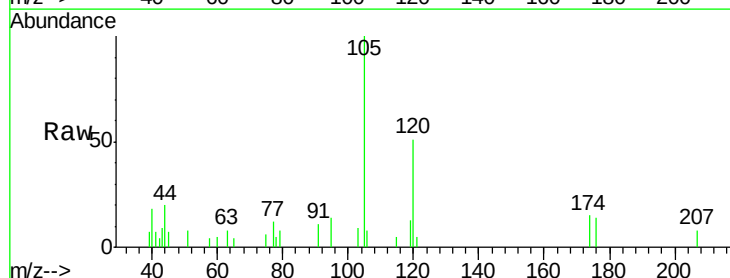
Acq: 11 Feb 2019 17:40

Tgt Ion: 105 Resp: 6933

Ion Ratio Lower Upper

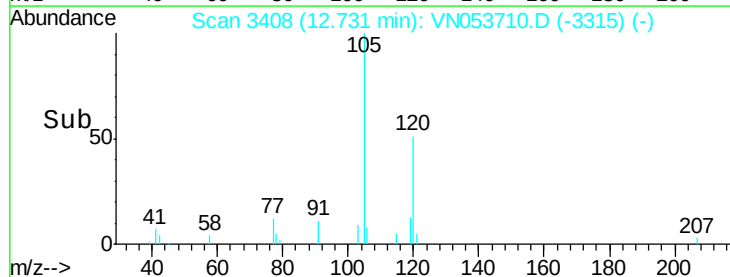
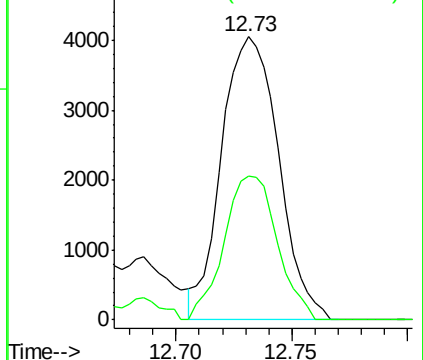
105 100

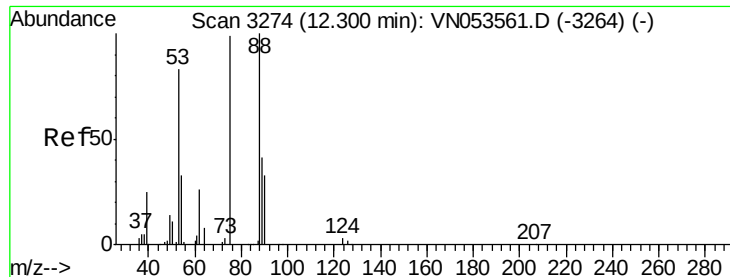
120 47.4 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 109.771 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053710.D

Acq: 11 Feb 2019 17:40

Instrument :

MSVOA_N

ClientSampled :

M-9-S

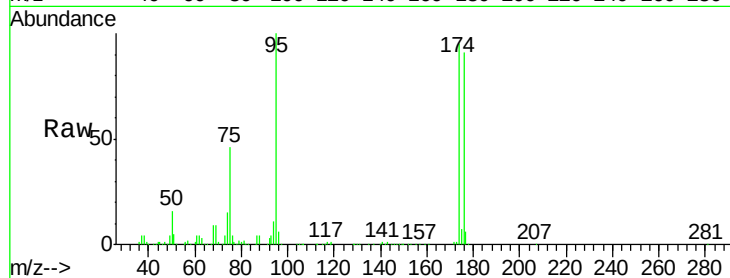
Tot Ion: 75 Resp: 212607

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

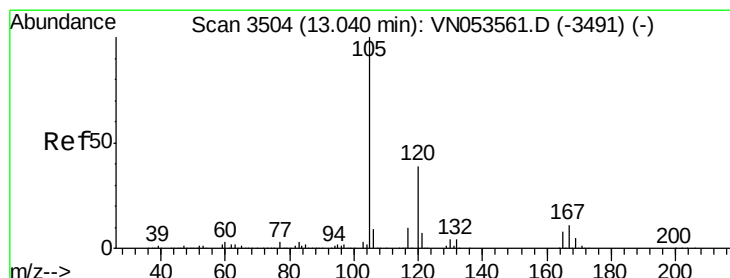
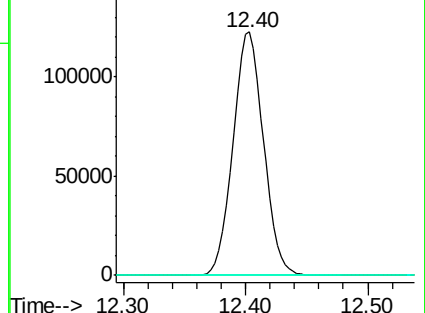
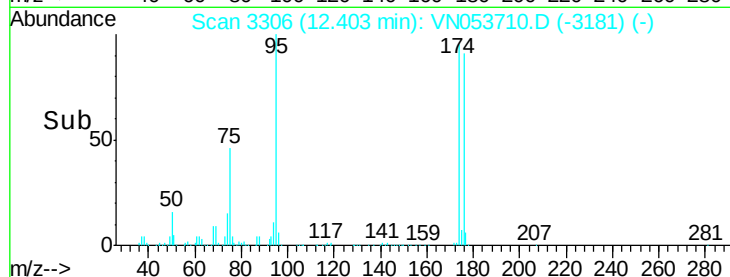
89 0.0 35.6 53.4#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.267 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053710.D

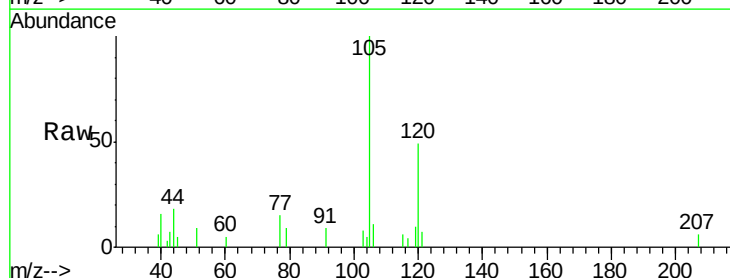
Acq: 11 Feb 2019 17:40

Tgt Ion: 105 Resp: 6726

Ion Ratio Lower Upper

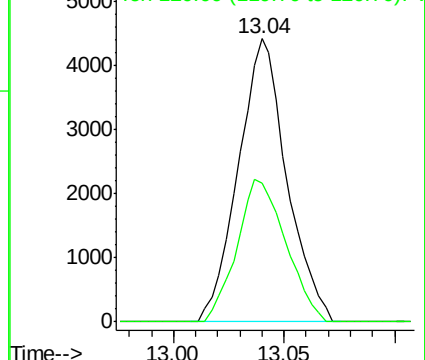
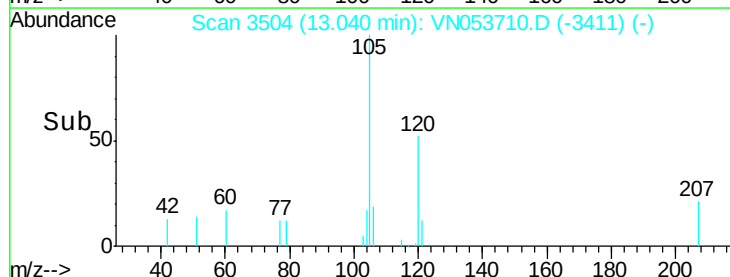
105 100

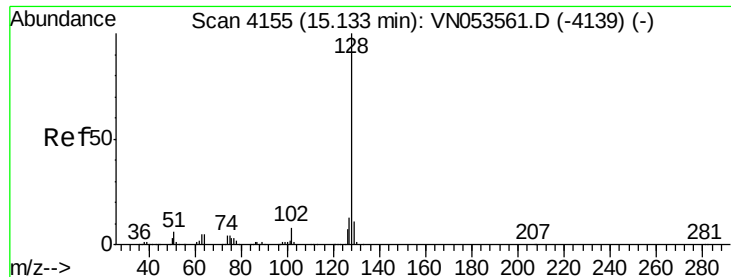
120 50.7 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

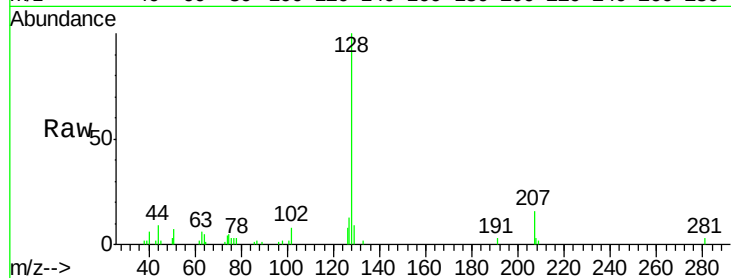




#95
Naphthalene
Concen: 2.935 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053710.D
Acq: 11 Feb 2019 17:40

Instrument :
MSVOA_N
ClientSampleId :
M-9-S

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.3	15.5
129	10.5	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

