

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111218\
 Data File : VN052270.D
 Acq On : 12 Nov 2018 18:45
 Operator : MD\SY
 Sample : PB114678ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#14

Quant Time: Nov 13 00:16:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	324521	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	543062	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	471364	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	163240	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	215852	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
35) Dibromofluoromethane	7.59	113	173820	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
50) Toluene-d8	10.09	98	686260	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
62) 4-Bromofluorobenzene	12.40	95	197681	44.40	ug/l	0.00
Spiked Amount			Recovery	=	88.80%	

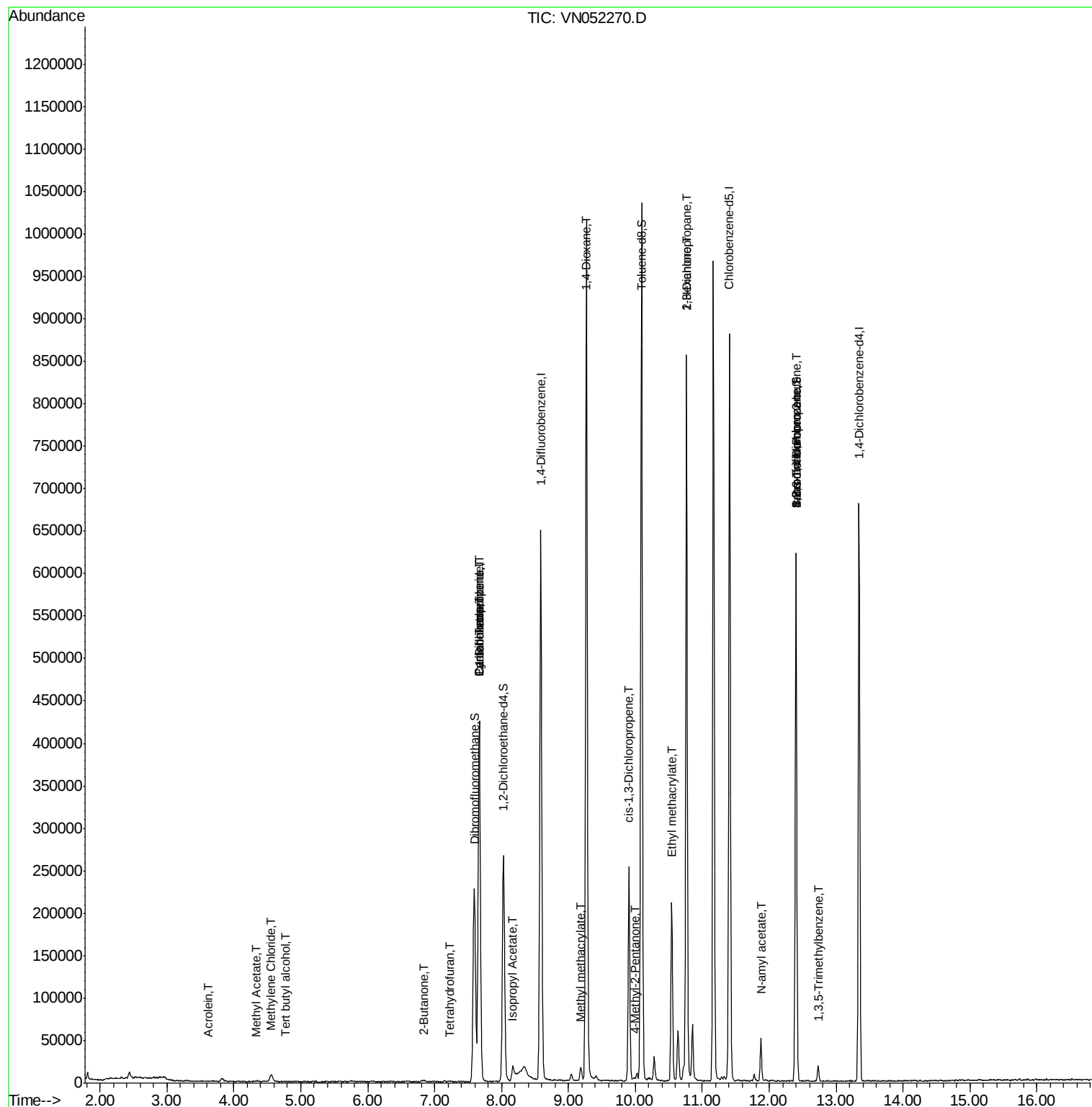
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	72	0.316	ug/l #	71
13) Acrolein	3.61	56	33	34.180	ug/l #	1
16) Acetone	3.82	43	3364	Below Cal		99
18) Methyl Acetate	4.32	43	795	0.214	ug/l #	68
20) Methylene Chloride	4.56	84	5100	1.261	ug/l #	82
25) 2-Butanone	6.83	43	578	0.305	ug/l #	52
29) Tetrahydrofuran	7.21	42	626	0.508	ug/l #	49
31) Cyclohexane	7.67	56	8625	0.576	ug/l #	21
36) 1,1-Dichloropropene	7.67	75	28301	5.163	ug/l #	51
38) Carbon Tetrachloride	7.67	117	33758	6.796	ug/l #	17
43) Isopropyl Acetate	8.17	43	23578	3.281	ug/l #	94
48) Methyl methacrylate	9.18	41	4994	1.319	ug/l #	15
49) 1,4-Dioxane	9.26	88	115	3.778	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	3036	0.765	ug/l	100
54) cis-1,3-Dichloropropene	9.90	75	39724	6.535	ug/l #	70
56) Ethyl methacrylate	10.55	69	948	0.205	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7669	1.252	ug/l #	44
59) 2-Hexanone	10.76	43	134681	48.344	ug/l #	54
71) Bromoform	12.40	173	828	0.410	ug/l #	1
74) N-amyl acetate	11.87	43	16152	3.334	ug/l #	58
76) 1,2,3-Trichloropropane	12.40	75	109562	37.935	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7892	0.744	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	109562	129.489	ug/l #	8

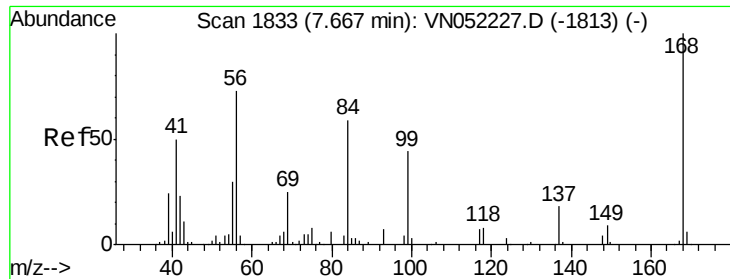
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 12 00:34:27 2018
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: VN052270.D

Acq: 12 Nov 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

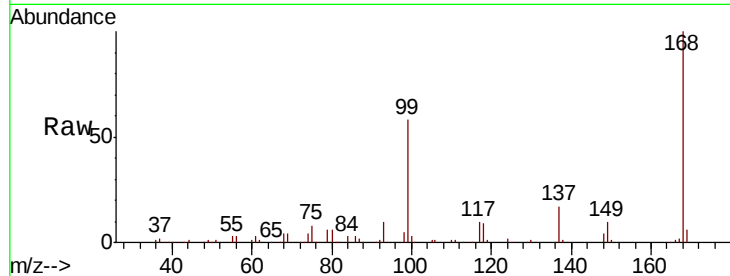
PB114678ZHE#14

Tot Ion:168 Resp: 324521

Ion Ratio Lower Upper

168 100

99 57.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

150000

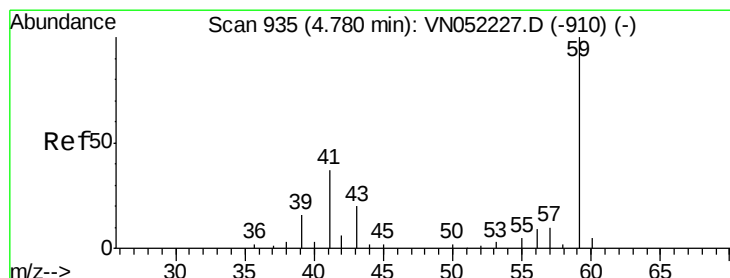
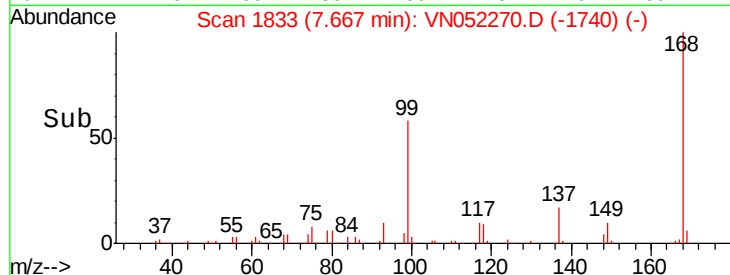
100000

50000

0

Time-->

7.60 7.70



#11

Tert butyl alcohol

Concen: 0.316 ug/l

RT: 4.77 min Scan# 932

Delta R.T. -0.01 min

Lab File: VN052270.D

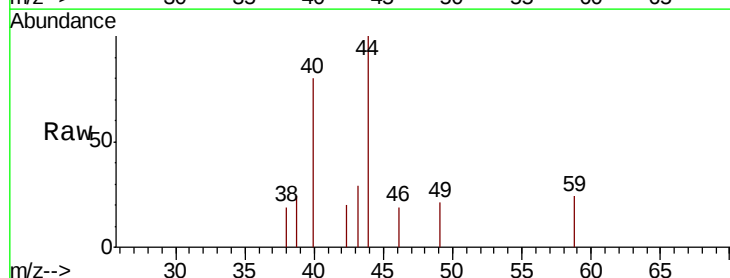
Acq: 12 Nov 2018 18:45

Tgt Ion: 59 Resp: 72

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.77

200

150

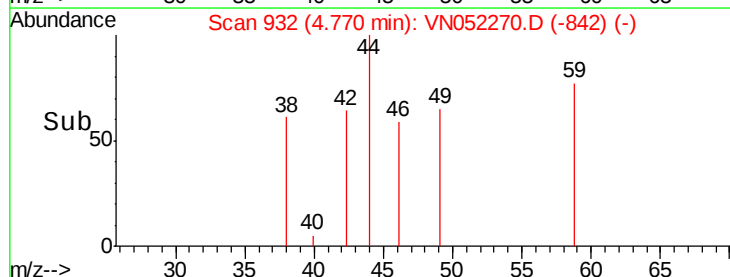
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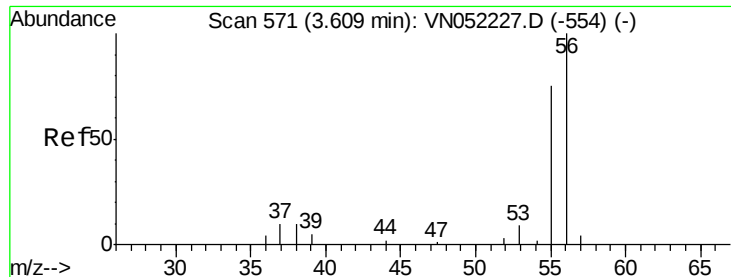
50

0

Time-->

4.76 4.77 4.78





#13

Acrolein

Concen: 34.180 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN052270.D

Acq: 12 Nov 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

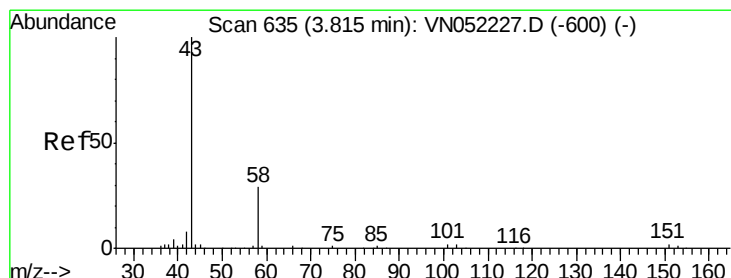
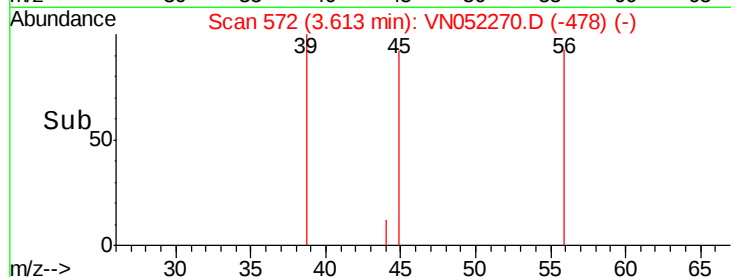
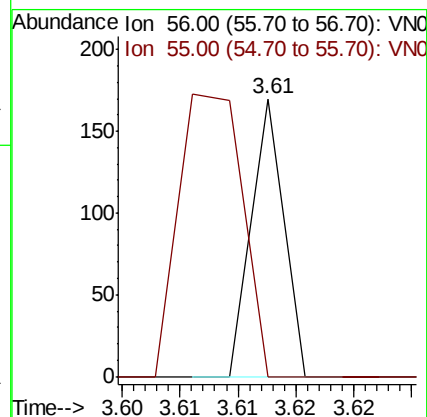
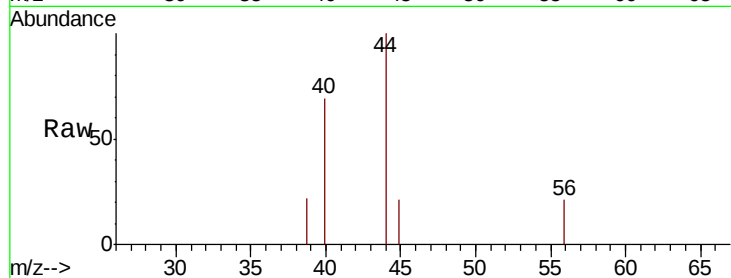
PB114678ZHE#14

Tot Ion: 56 Resp: 33

Ion Ratio Lower Upper

56 100

55 200.0 59.9 89.9#



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052270.D

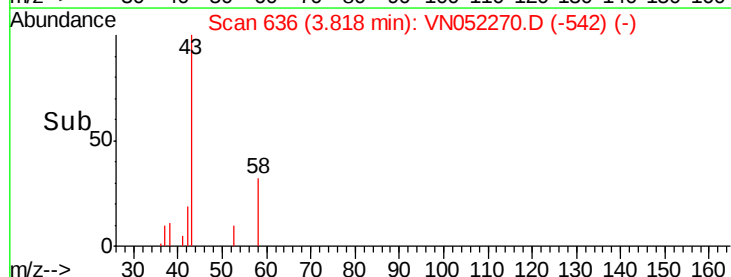
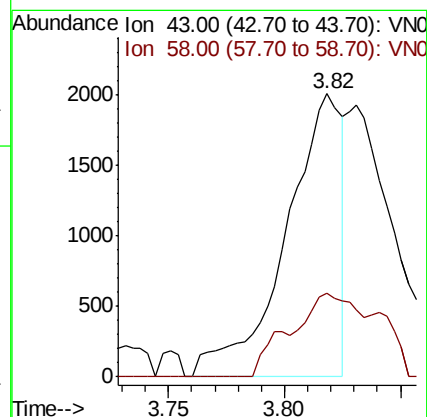
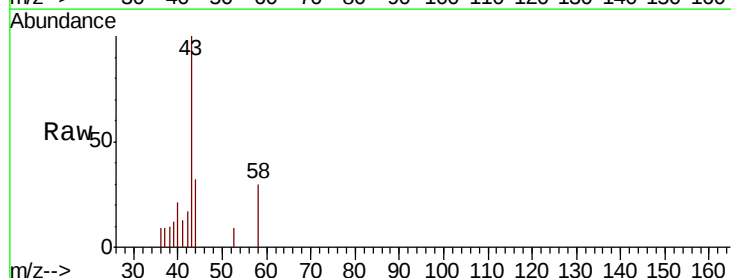
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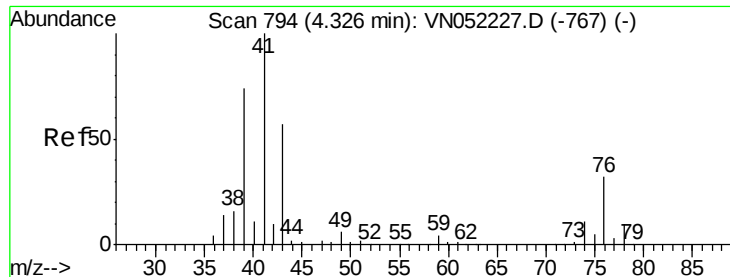
Tgt Ion: 43 Resp: 3364

Ion Ratio Lower Upper

43 100

58 29.5 23.0 34.6

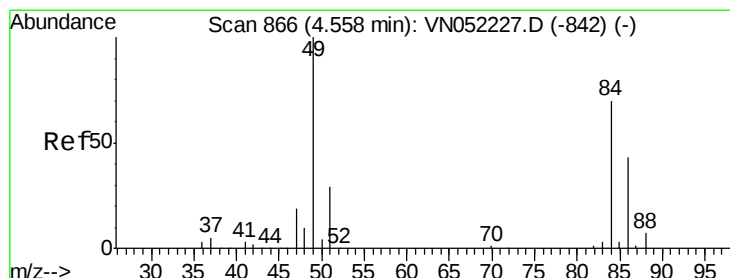
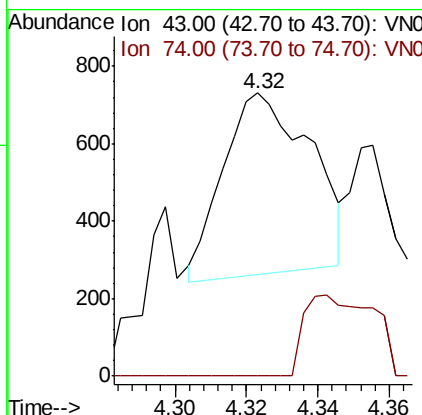
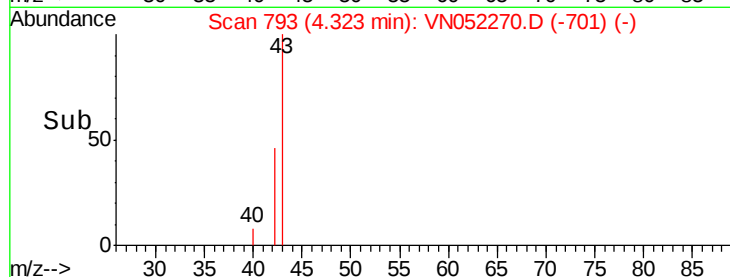
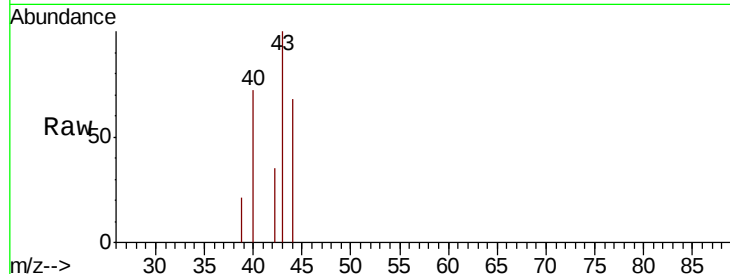




#18
Methyl Acetate
Concen: 0.214 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN052270.D
Acq: 12 Nov 2018 18:45

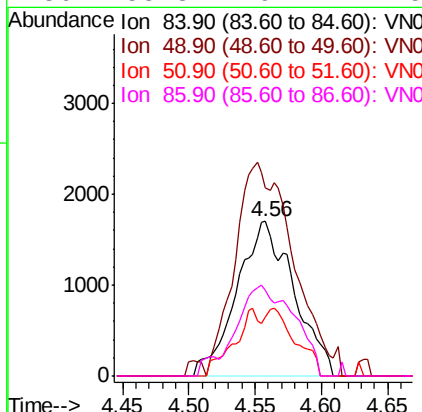
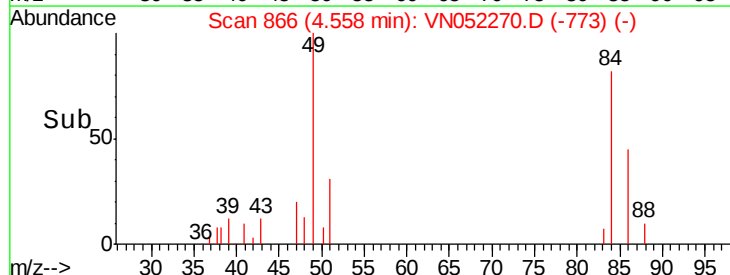
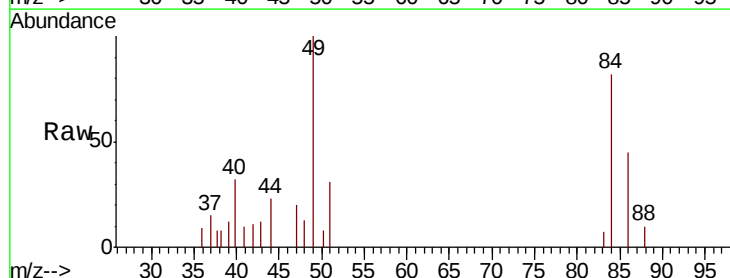
Instrument :
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PB114678ZHE#14

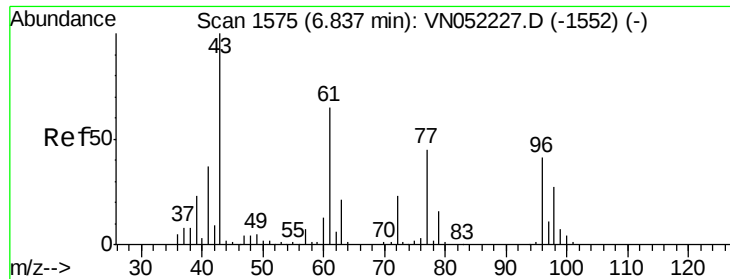
Tot Ion: 43 Resp: 795
Ion Ratio Lower Upper
43 100
74 35.1 16.2 24.2#



#20
Methylene Chloride
Concen: 1.261 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052270.D
Acq: 12 Nov 2018 18:45

Tgt Ion: 84 Resp: 5100
Ion Ratio Lower Upper
84 100
49 112.5 114.8 172.2#
51 37.9 33.1 49.7
86 55.3 49.7 74.5

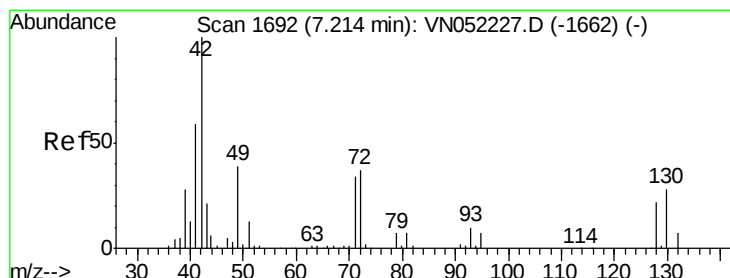
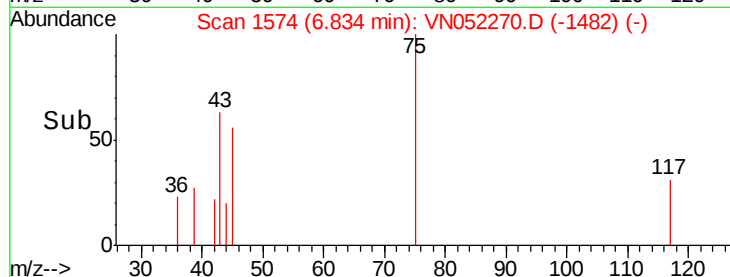
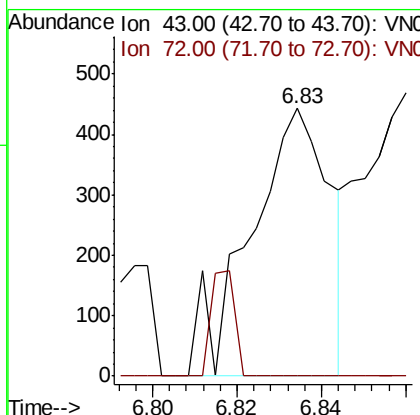
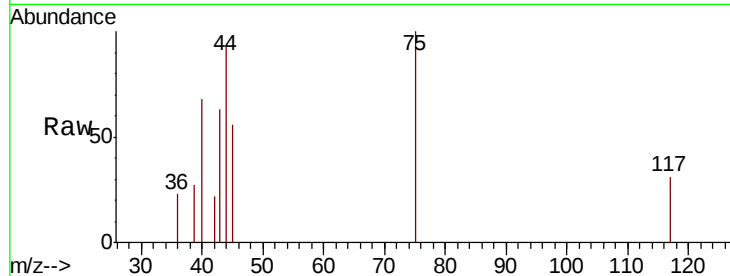




#25
2-Butanone
Concen: 0.305 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VN052270.D
Acq: 12 Nov 2018 18:45

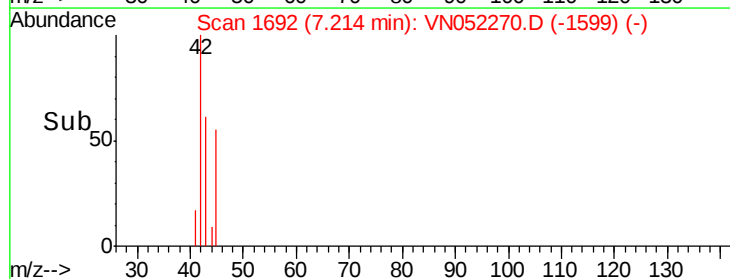
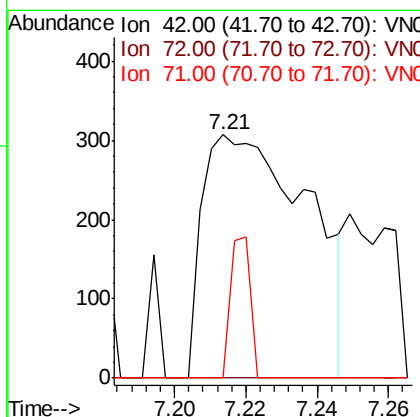
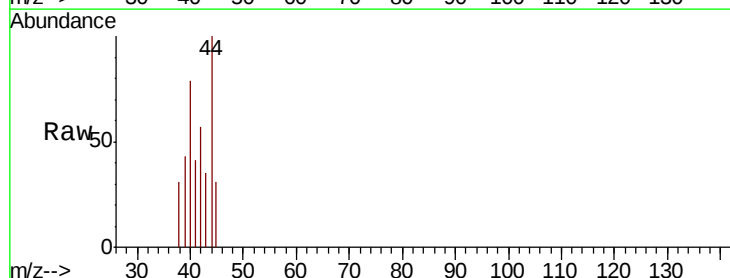
Instrument :
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ClientSampleId :
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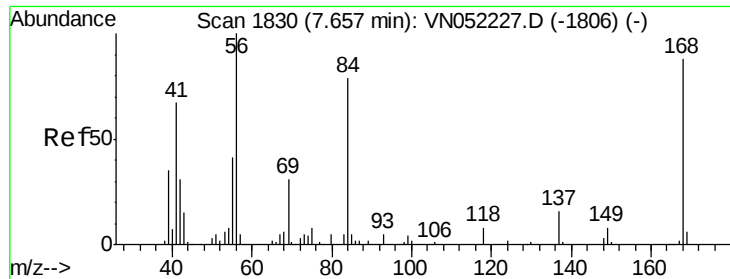
Tot Ion: 43 Resp: 578
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#



#29
Tetrahydrofuran
Concen: 0.508 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN052270.D
Acq: 12 Nov 2018 18:45

Tgt Ion: 42 Resp: 626
Ion Ratio Lower Upper
42 100
72 0.0 28.6 43.0#
71 10.9 27.1 40.7#

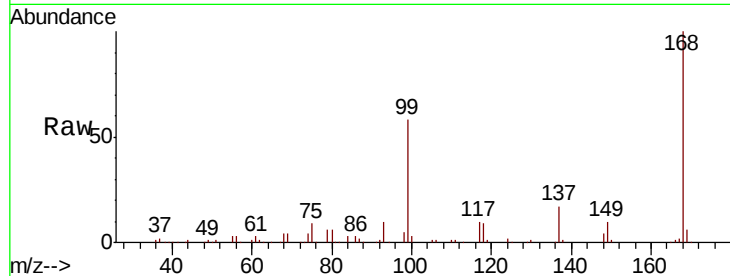




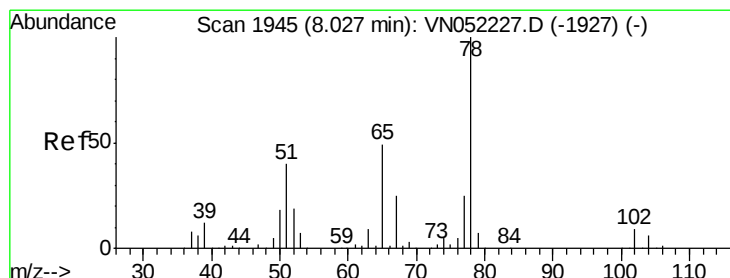
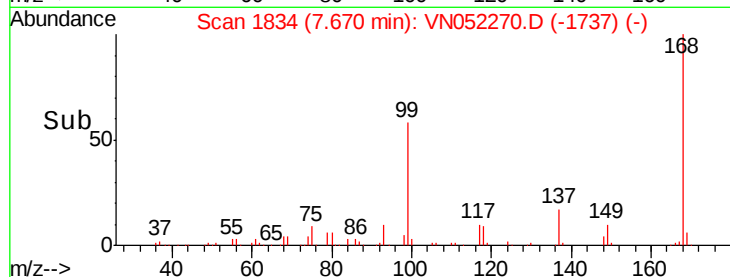
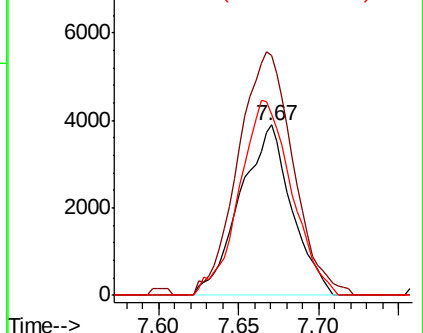
#31
Cyclohexane
Concen: 0.576 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN052270.D
Acq: 12 Nov 2018 18:45

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#14

Tot Ion: 56 Resp: 8625
Ion Ratio Lower Upper
56 100
69 140.8 24.8 37.2#
84 106.4 63.1 94.7#

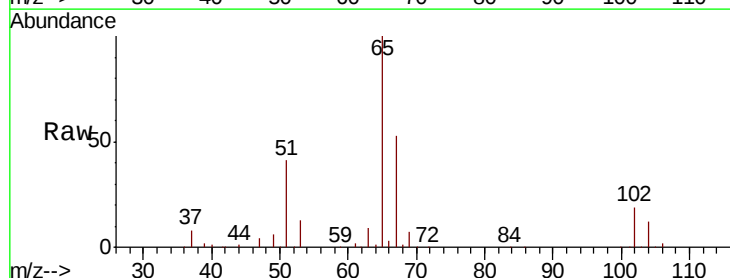


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

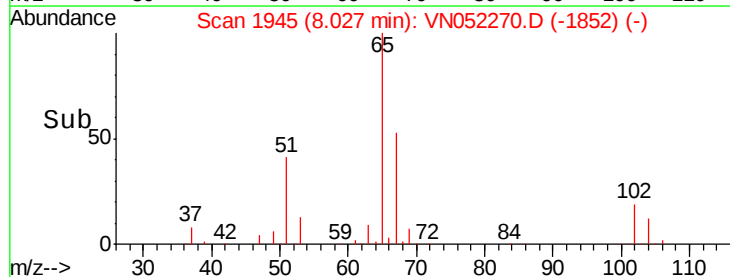
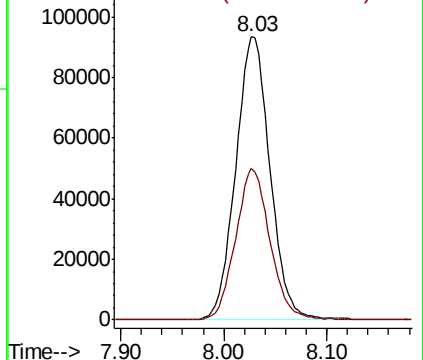


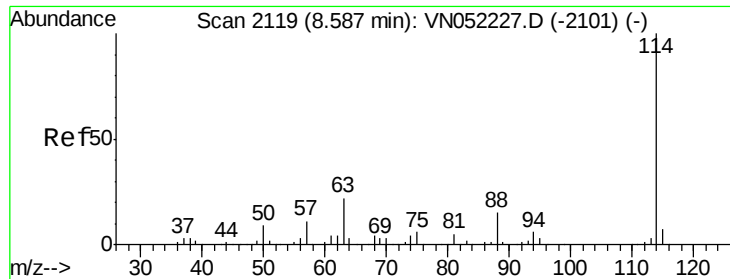
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052270.D
Acq: 12 Nov 2018 18:45

Tgt Ion: 65 Resp: 215852
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.6



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

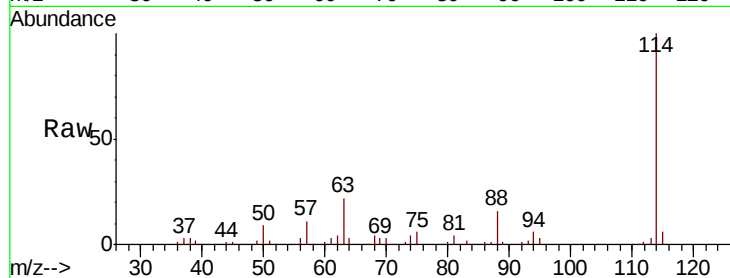




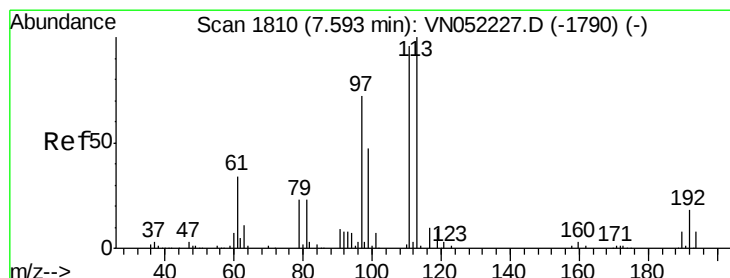
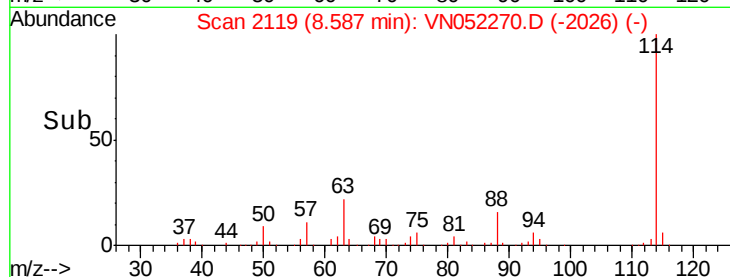
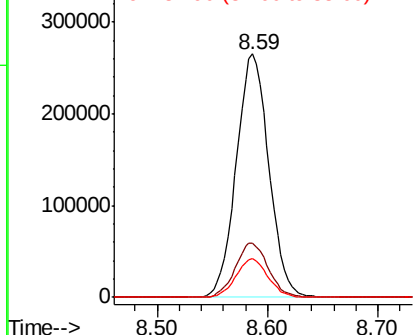
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN052270.D
Acq: 12 Nov 2018 18:45

Instrument :
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Tot Ion:114 Resp: 543062
Ion Ratio Lower Upper
114 100
63 22.1 0.0 43.4
88 15.8 0.0 30.2

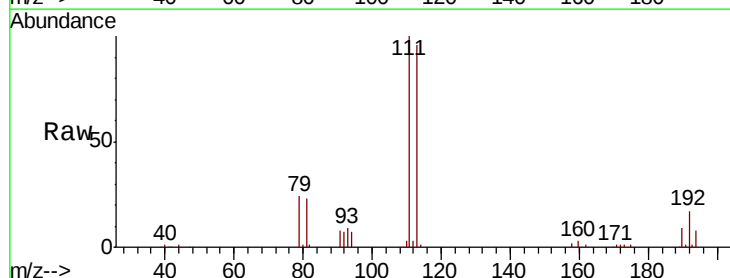


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

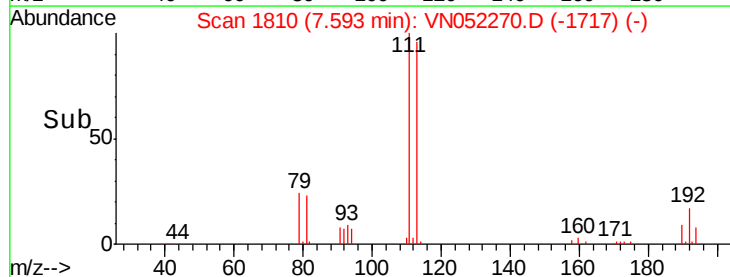
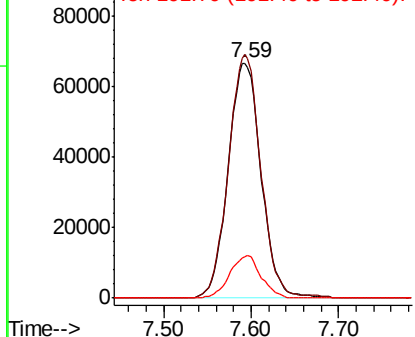


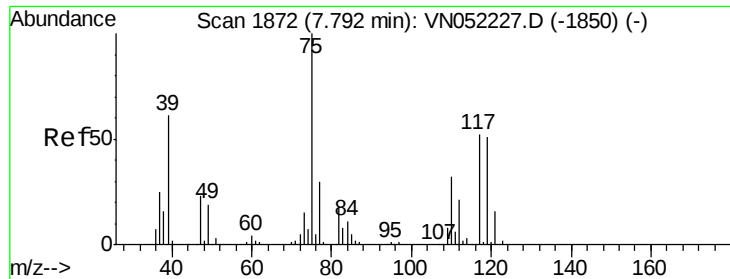
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052270.D
Acq: 12 Nov 2018 18:45

Tgt Ion:113 Resp: 173820
Ion Ratio Lower Upper
113 100
111 101.9 80.2 120.4
192 17.1 14.1 21.1



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

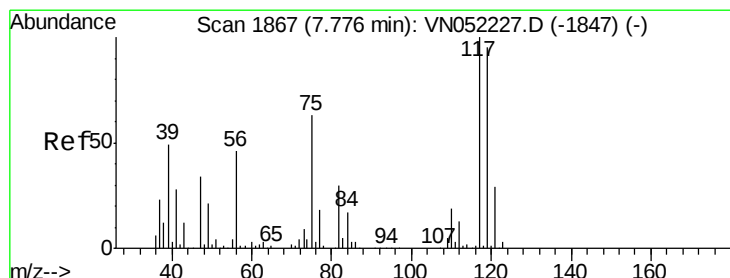
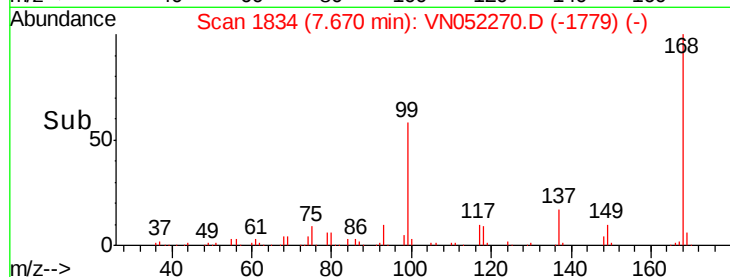
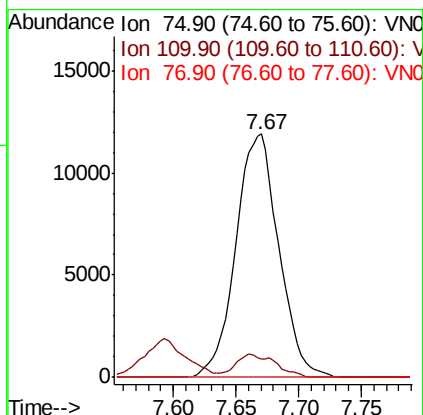
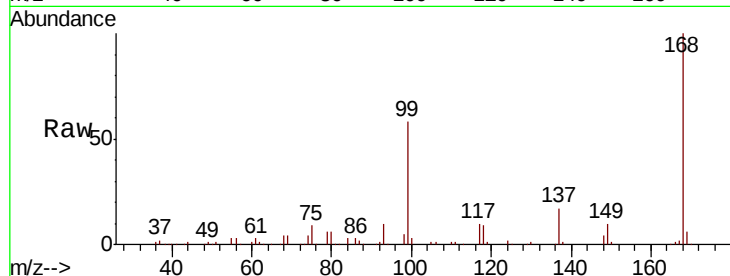




#36
 1,1-Dichloropropene
 Concen: 5.163 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN052270.D
 Acq: 12 Nov 2018 18:45

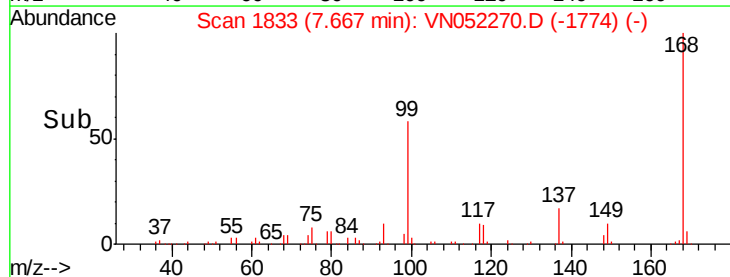
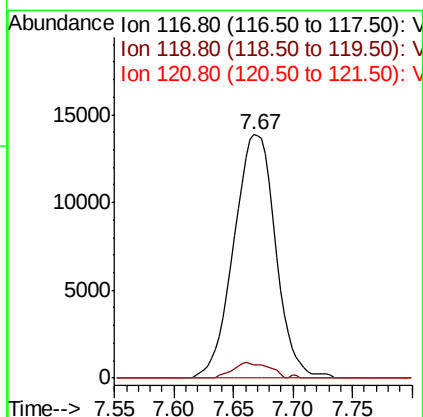
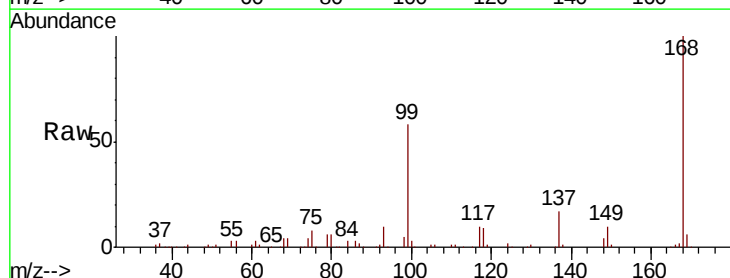
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#14

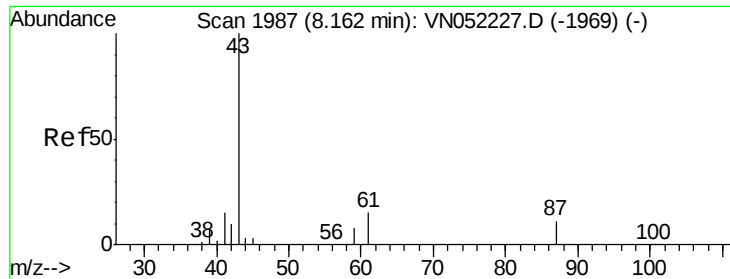
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	16.4	49.4#
77	0.0	23.9	35.9#



#38
 Carbon Tetrachloride
 Concen: 6.796 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052270.D
 Acq: 12 Nov 2018 18:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	75.8	113.8#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 3.281 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052270.D

Acq: 12 Nov 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#14

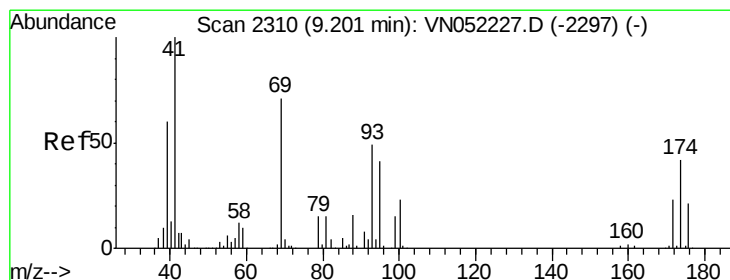
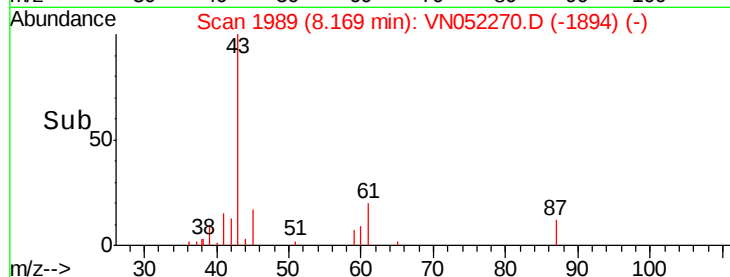
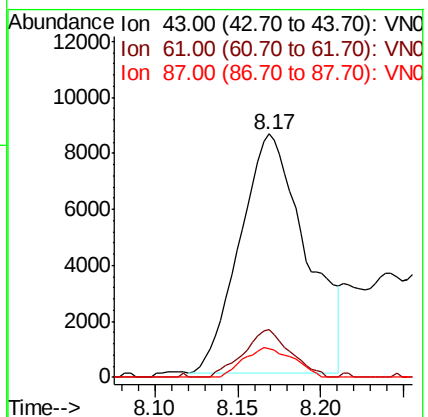
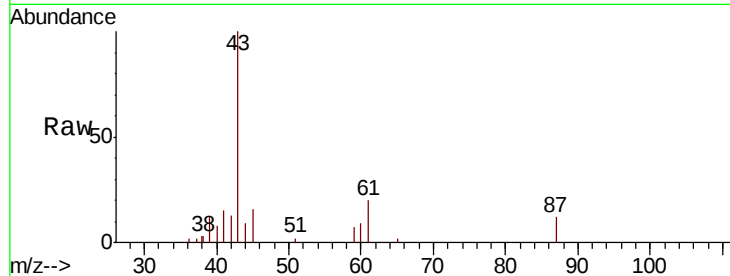
Tot Ion: 43 Resp: 23578

Ion Ratio Lower Upper

43 100

61 14.1 14.2 21.4#

87 9.4 8.4 12.6



#48

Methyl methacrylate

Concen: 1.319 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052270.D

Acq: 12 Nov 2018 18:45

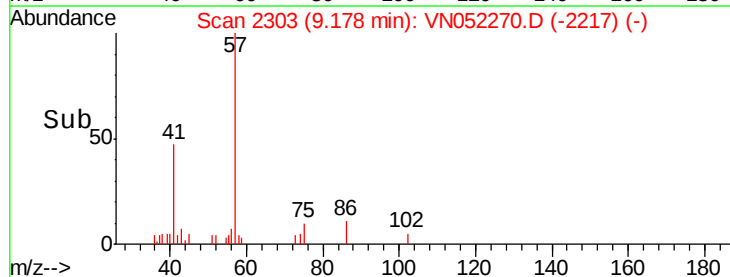
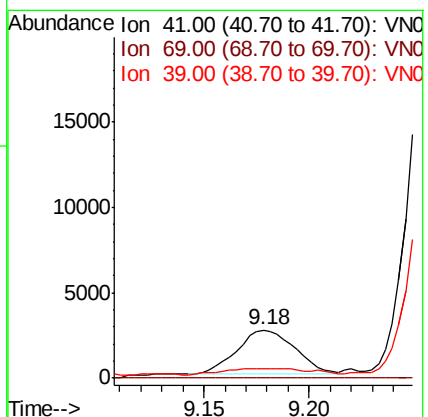
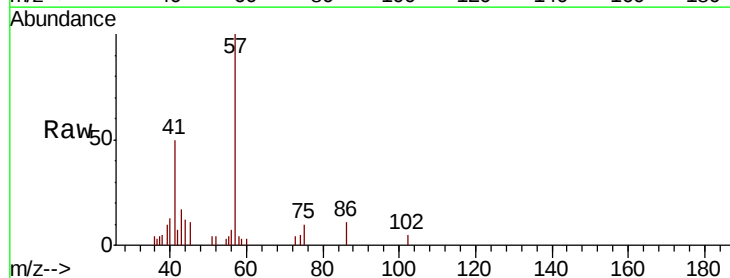
Tgt Ion: 41 Resp: 4994

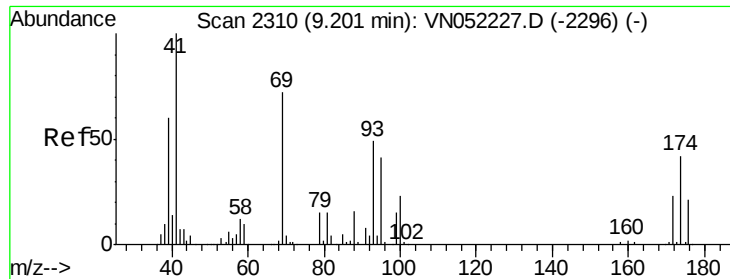
Ion Ratio Lower Upper

41 100

69 0.0 58.8 88.2#

39 0.0 50.7 76.1#





#49

1,4-Dioxane

Concen: 3.778 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.06 min

Lab File: VN052270.D

Acq: 12 Nov 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#14

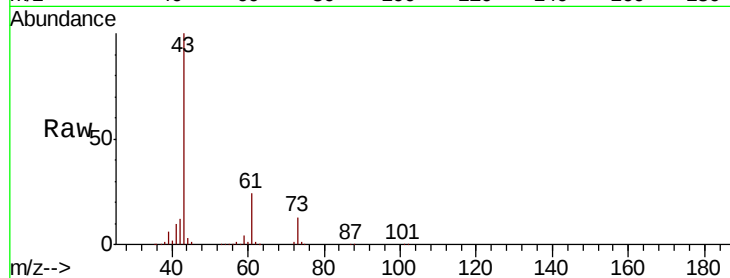
Tot Ion: 88 Resp: 115

Ion Ratio Lower Upper

88 100

43 884922.6 32.5 48.7#

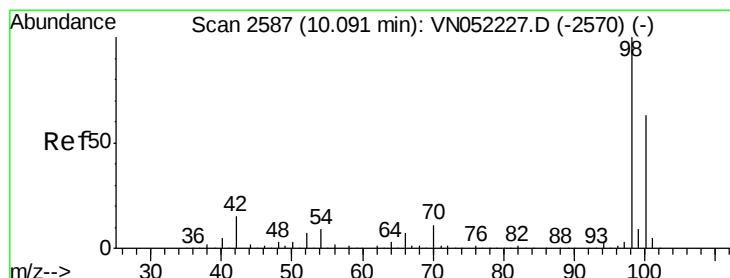
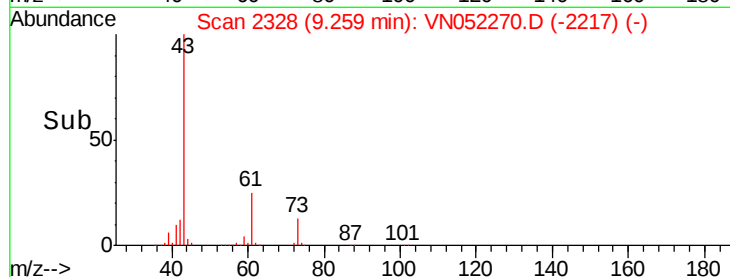
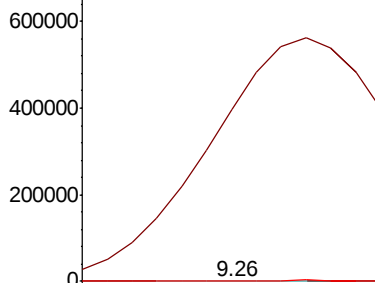
58 3712.2 58.2 87.4#



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: 3.778 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052270.D

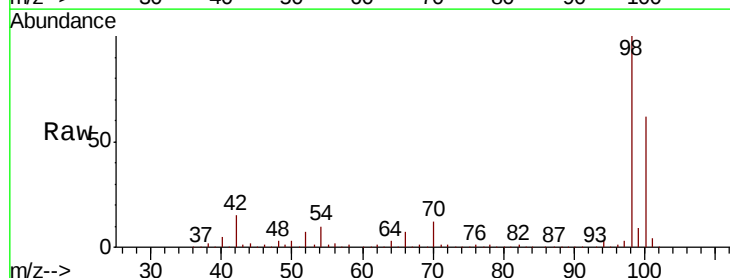
Acq: 12 Nov 2018 18:45

Tgt Ion: 98 Resp: 686260

Ion Ratio Lower Upper

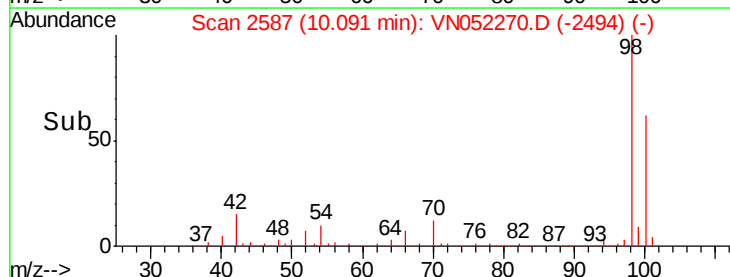
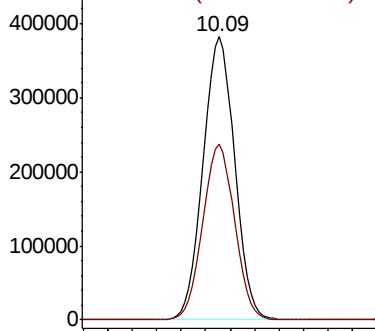
98 100

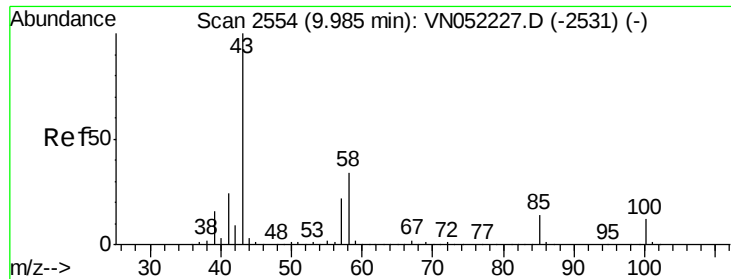
100 62.5 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.765 ug/l

RT: 9.99 min Scan# 2557

Delta R.T. 0.01 min

Lab File: VN052270.D

Acq: 12 Nov 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

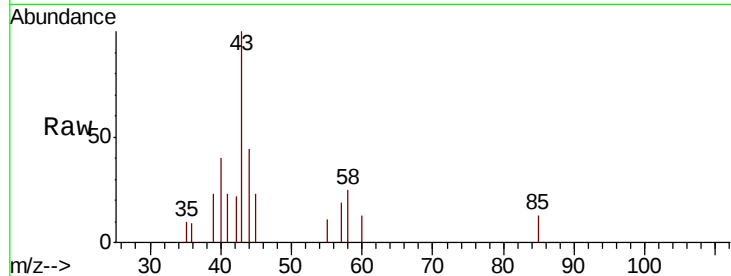
PB114678ZHE#14

Tot Ion: 43 Resp: 3036

Ion Ratio Lower Upper

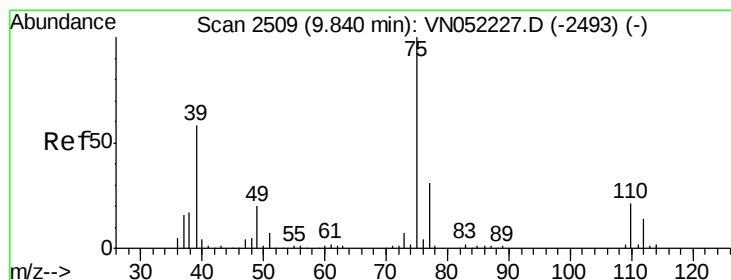
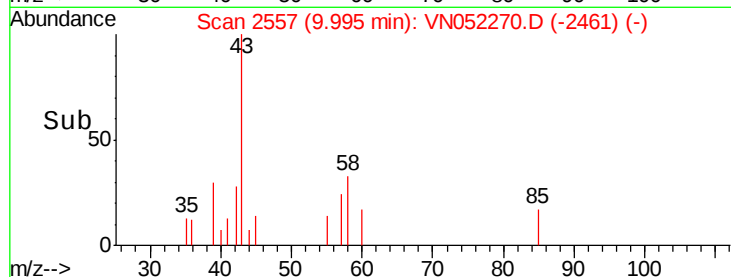
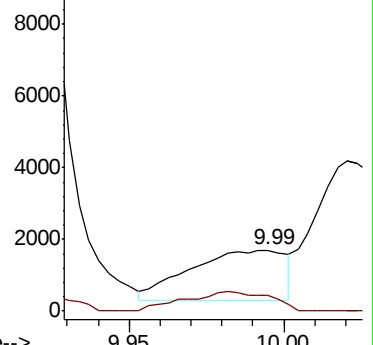
43 100

58 34.4 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.535 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052270.D

Acq: 12 Nov 2018 18:45

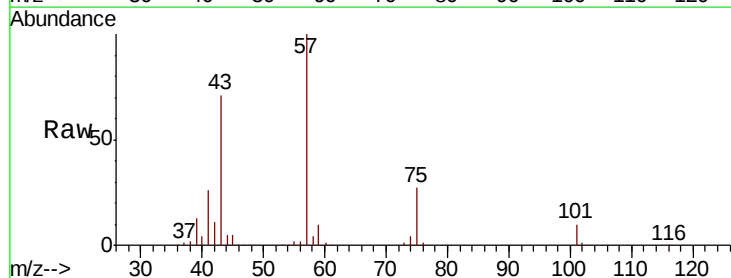
Tgt Ion: 75 Resp: 39724

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

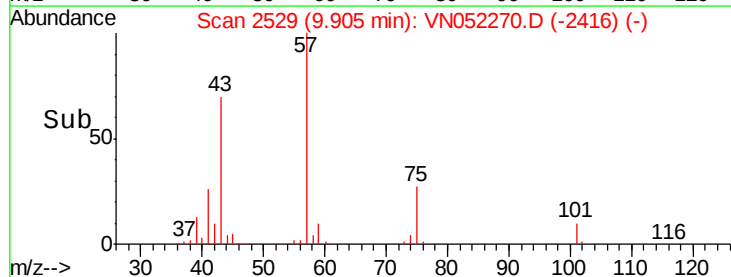
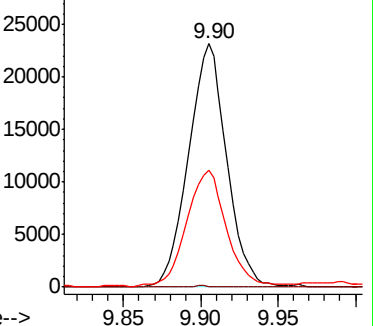
39 47.1 46.6 70.0

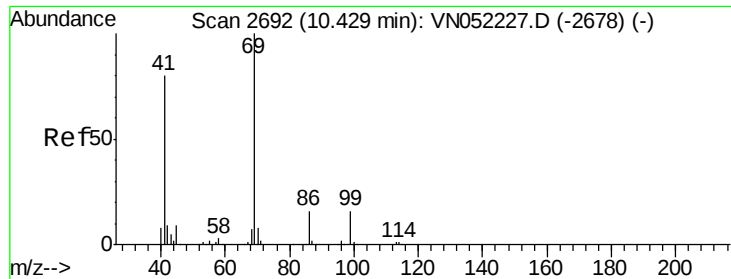


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.205 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN052270.D

Acq: 12 Nov 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#14

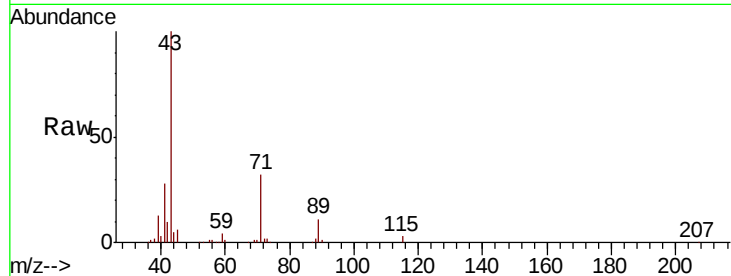
Tot Ion: 69 Resp: 948

Ion Ratio Lower Upper

69 100

41 4636.0 64.0 96.0#

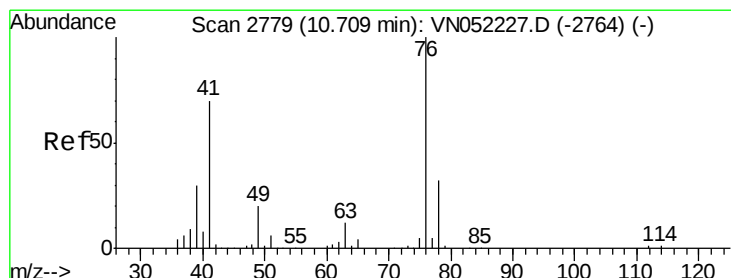
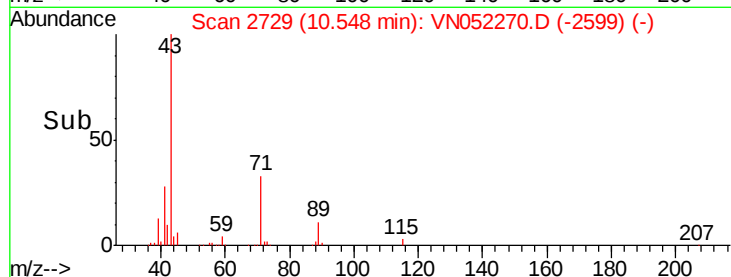
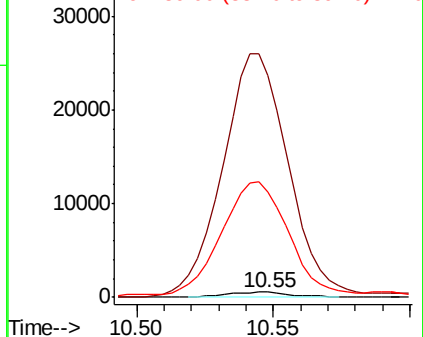
39 2126.7 37.8 56.8#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.252 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052270.D

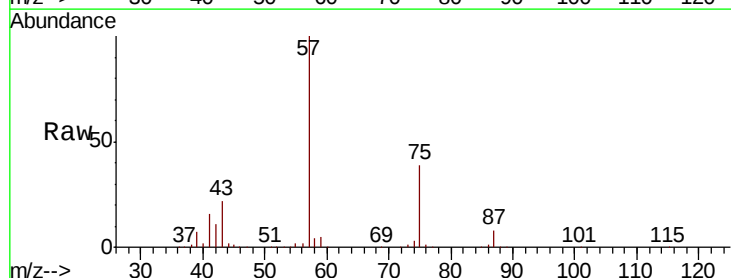
Acq: 12 Nov 2018 18:45

Tgt Ion: 76 Resp: 7669

Ion Ratio Lower Upper

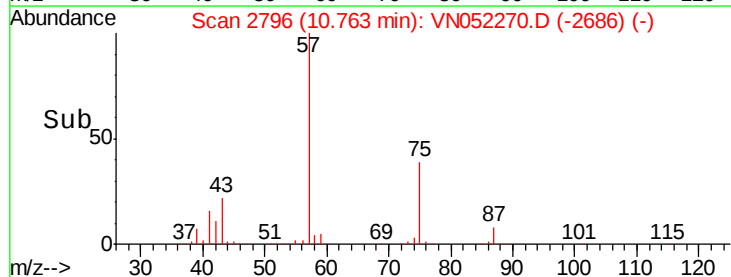
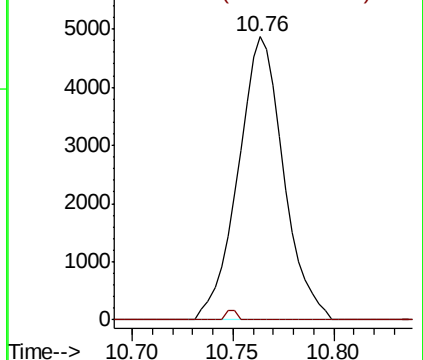
76 100

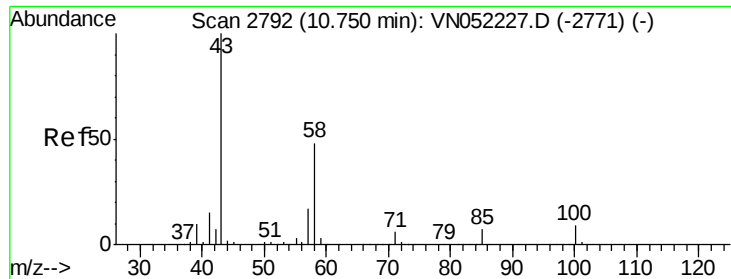
78 0.8 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

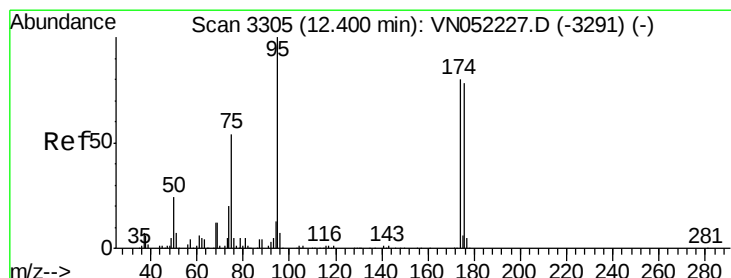
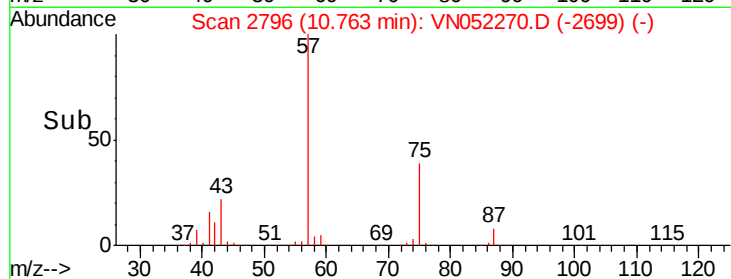
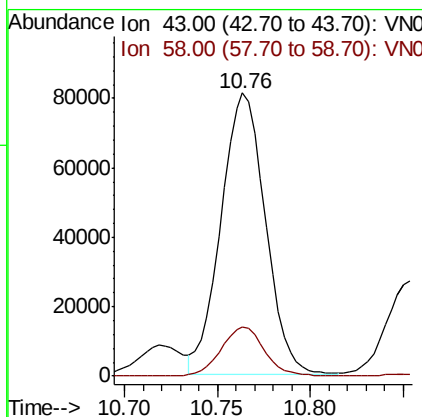
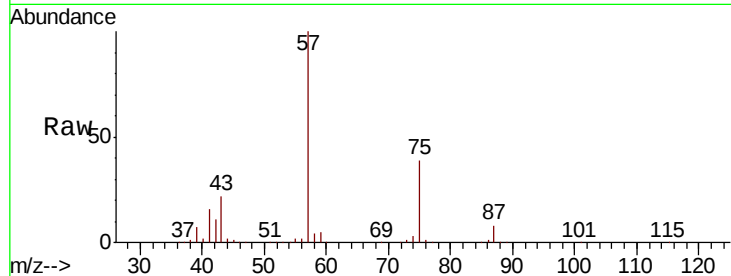




#59
2-Hexanone
Concen: 48.344 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052270.D
Acq: 12 Nov 2018 18:45

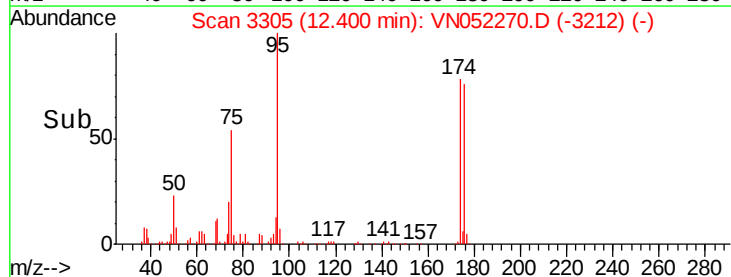
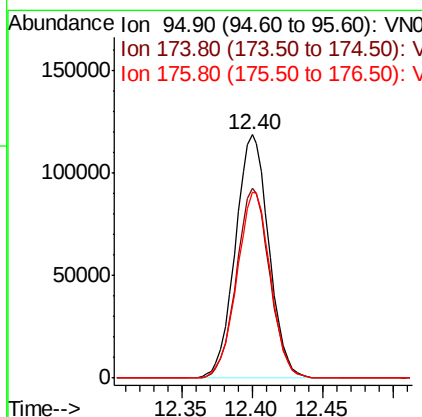
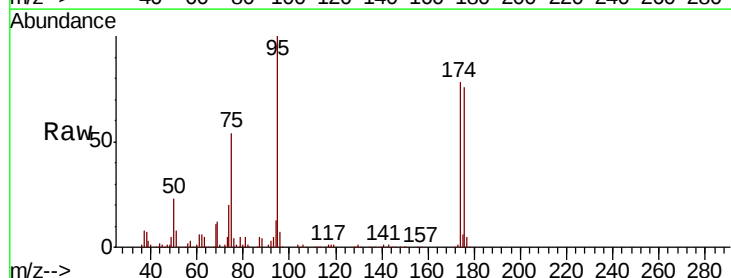
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#14

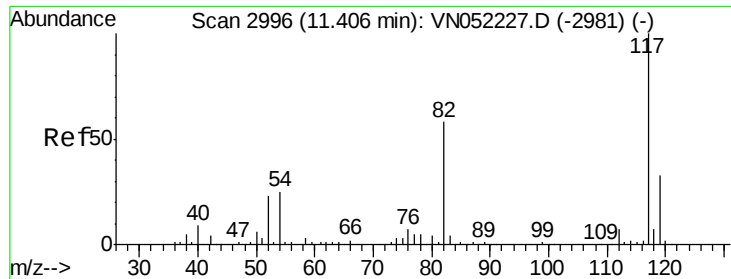
Tot Ion: 43 Resp: 134681
Ion Ratio Lower Upper
43 100
58 17.2 24.1 72.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052270.D
Acq: 12 Nov 2018 18:45

Tgt Ion: 95 Resp: 197681
Ion Ratio Lower Upper
95 100
174 77.6 0.0 159.4
176 76.3 0.0 157.8

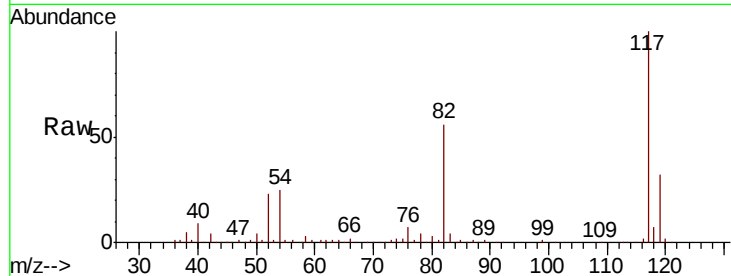




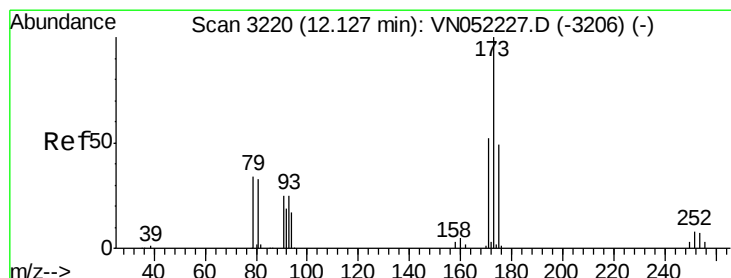
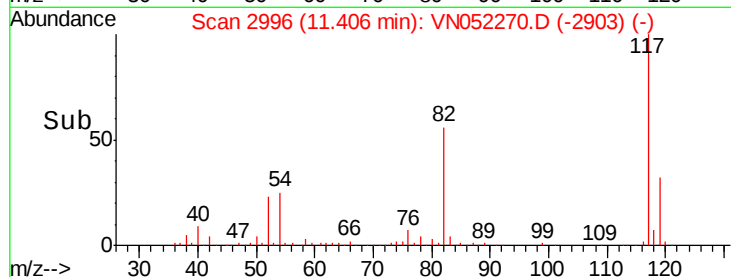
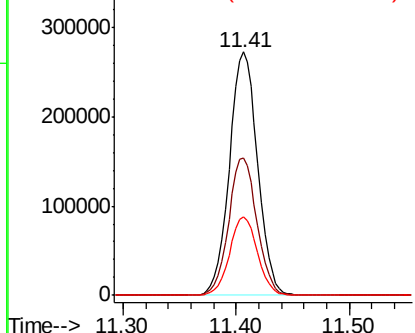
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052270.D
Acq: 12 Nov 2018 18:45

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#14

Tot Ion:117 Resp: 471364
Ion Ratio Lower Upper
117 100
82 56.5 46.2 69.2
119 32.1 26.2 39.4

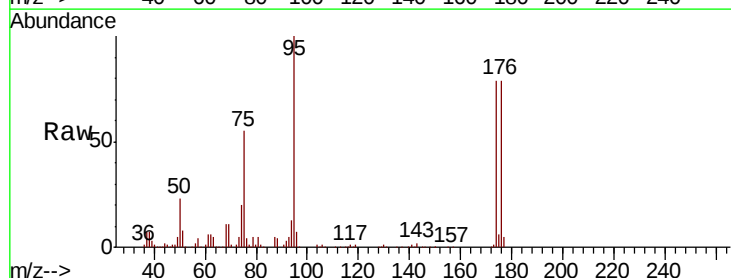


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

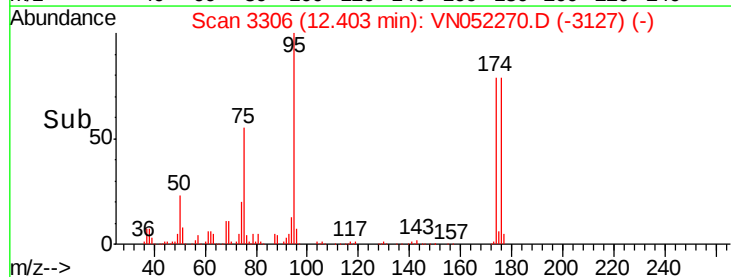
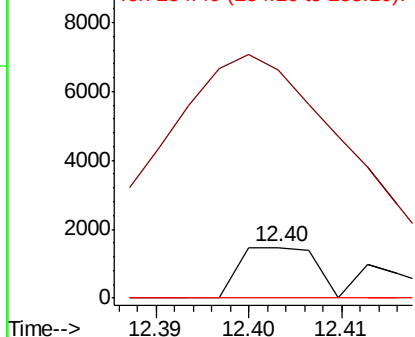


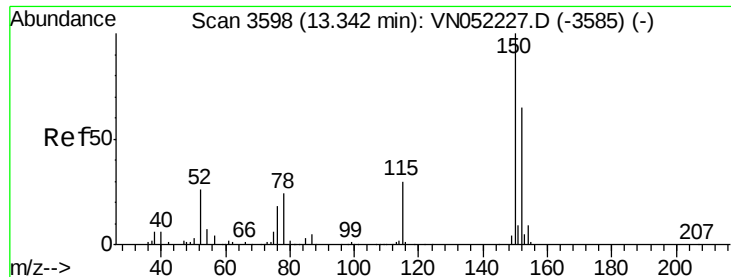
#71
Bromoform
Concen: 0.410 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052270.D
Acq: 12 Nov 2018 18:45

Tgt Ion:173 Resp: 828
Ion Ratio Lower Upper
173 100
175 1243.1 24.5 73.5#
254 0.0 0.0 0.0



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052270.D

Acq: 12 Nov 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#14

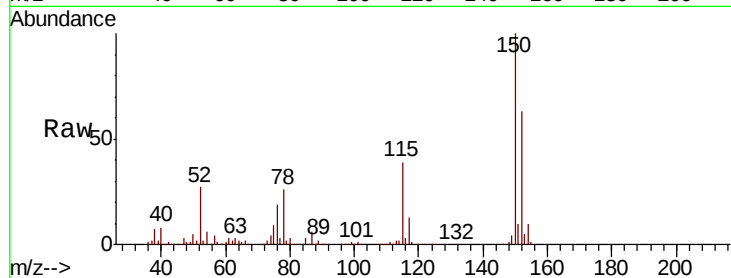
Tot Ion:152 Resp: 163240

Ion Ratio Lower Upper

152 100

115 60.4 29.8 89.5

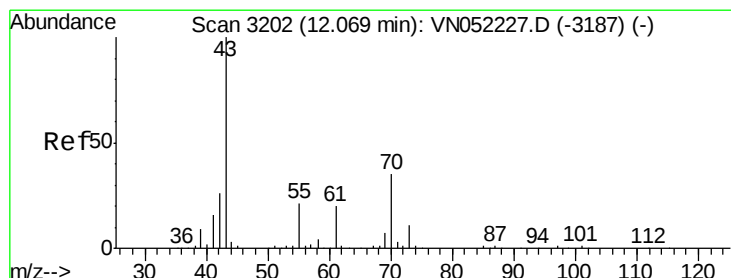
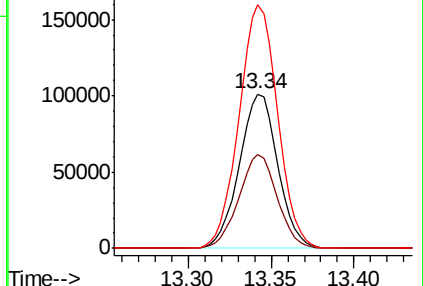
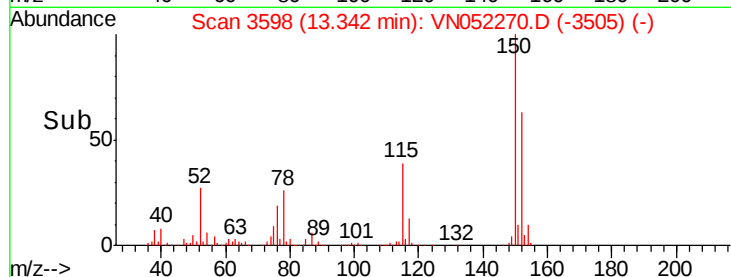
150 158.6 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 3.334 ug/l

RT: 11.87 min Scan# 3141

Delta R.T. -0.20 min

Lab File: VN052270.D

Acq: 12 Nov 2018 18:45

Tgt Ion: 43 Resp: 16152

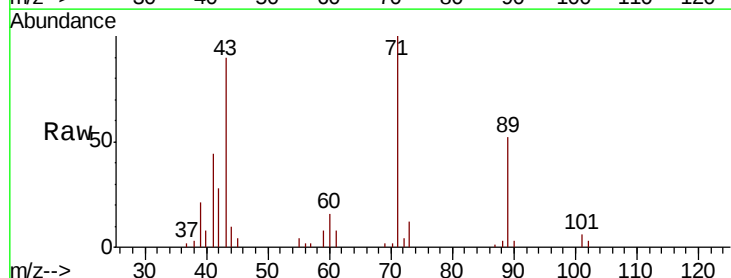
Ion Ratio Lower Upper

43 100

70 2.2 28.2 42.2#

55 5.3 17.4 26.2#

61 9.5 16.3 24.5#

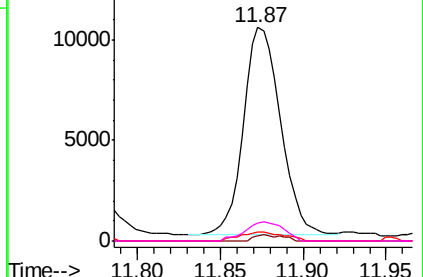
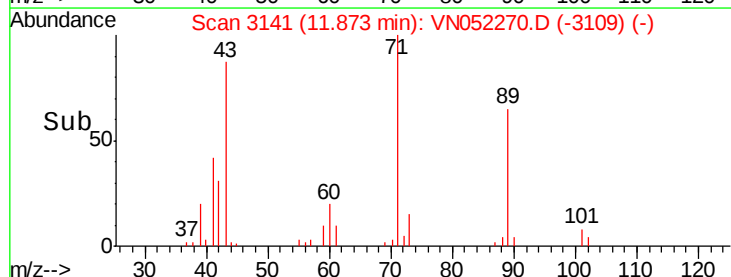


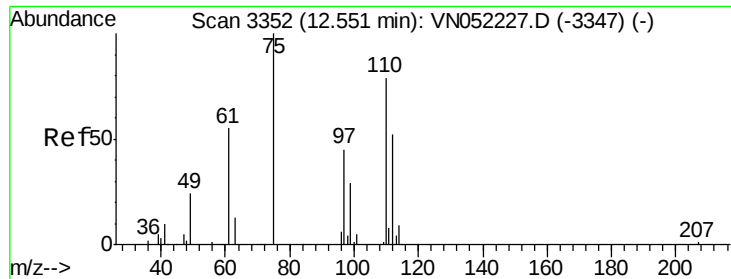
Abundance Ion 43.00 (42.70 to 43.70): V

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: 37.935 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052270.D

Acq: 12 Nov 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

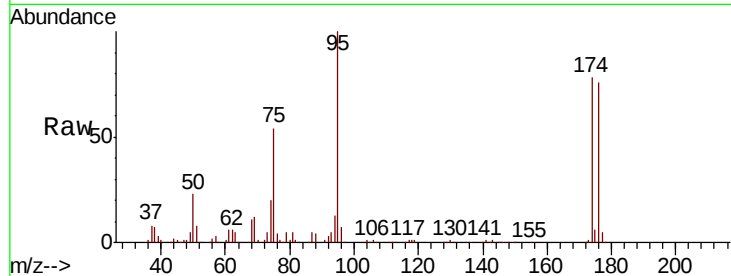
PB114678ZHE#14

Tot Ion: 75 Resp: 109562

Ion Ratio Lower Upper

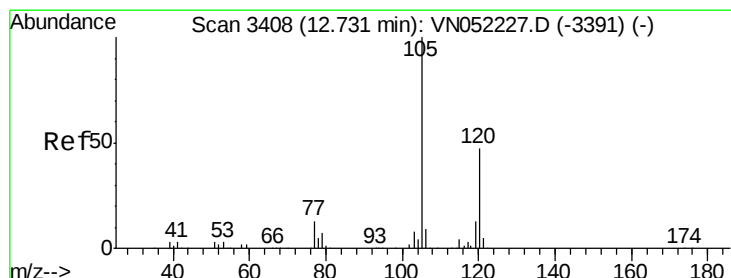
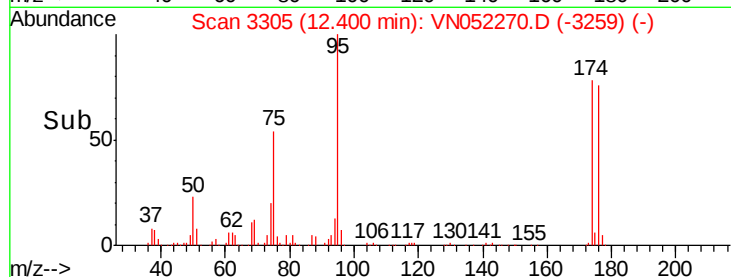
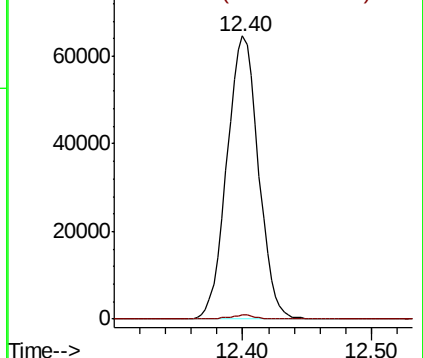
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052227.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN052227.D (-3347) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.744 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052270.D

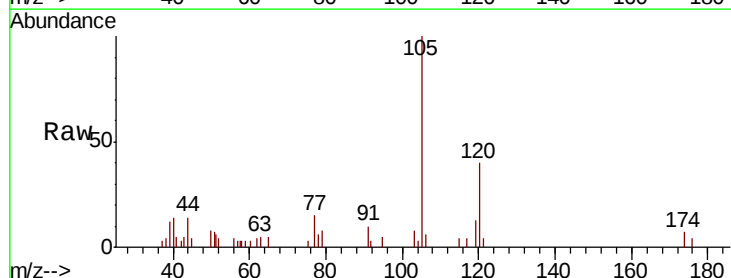
Acq: 12 Nov 2018 18:45

Tgt Ion: 105 Resp: 7892

Ion Ratio Lower Upper

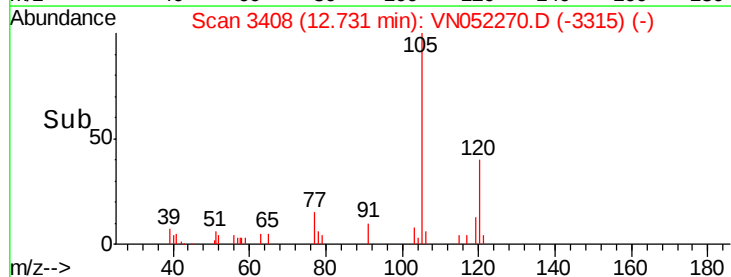
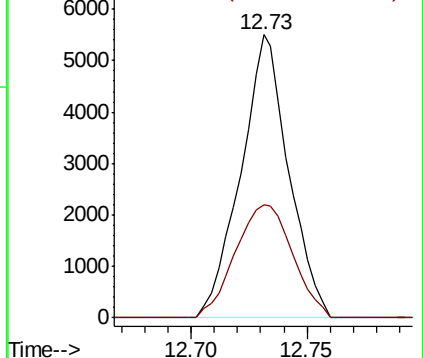
105 100

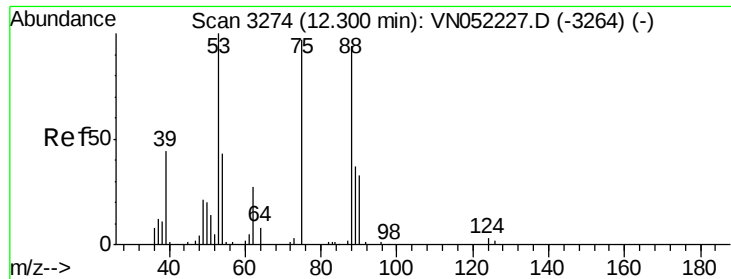
120 47.8 23.9 71.8



Abundance Ion 105.00 (104.70 to 105.70): VN052227.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052227.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 129.489 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052270.D

Acq: 12 Nov 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#14

Tot Ion: 75 Resp: 109562

Ion Ratio Lower Upper

75 100

53 0.0 84.0 126.0#

89 0.0 33.7 50.5#

