

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111218\
 Data File : VN052261.D
 Acq On : 12 Nov 2018 14:45
 Operator : MD\SY
 Sample : PB114678ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#05

Quant Time: Nov 13 00:14:42 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	347969	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	575383	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	497700	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	178198	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	227716	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
35) Dibromofluoromethane	7.59	113	185654	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
50) Toluene-d8	10.09	98	723128	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
62) 4-Bromofluorobenzene	12.40	95	209677	44.45	ug/l	0.00
Spiked Amount			Recovery	=	88.90%	

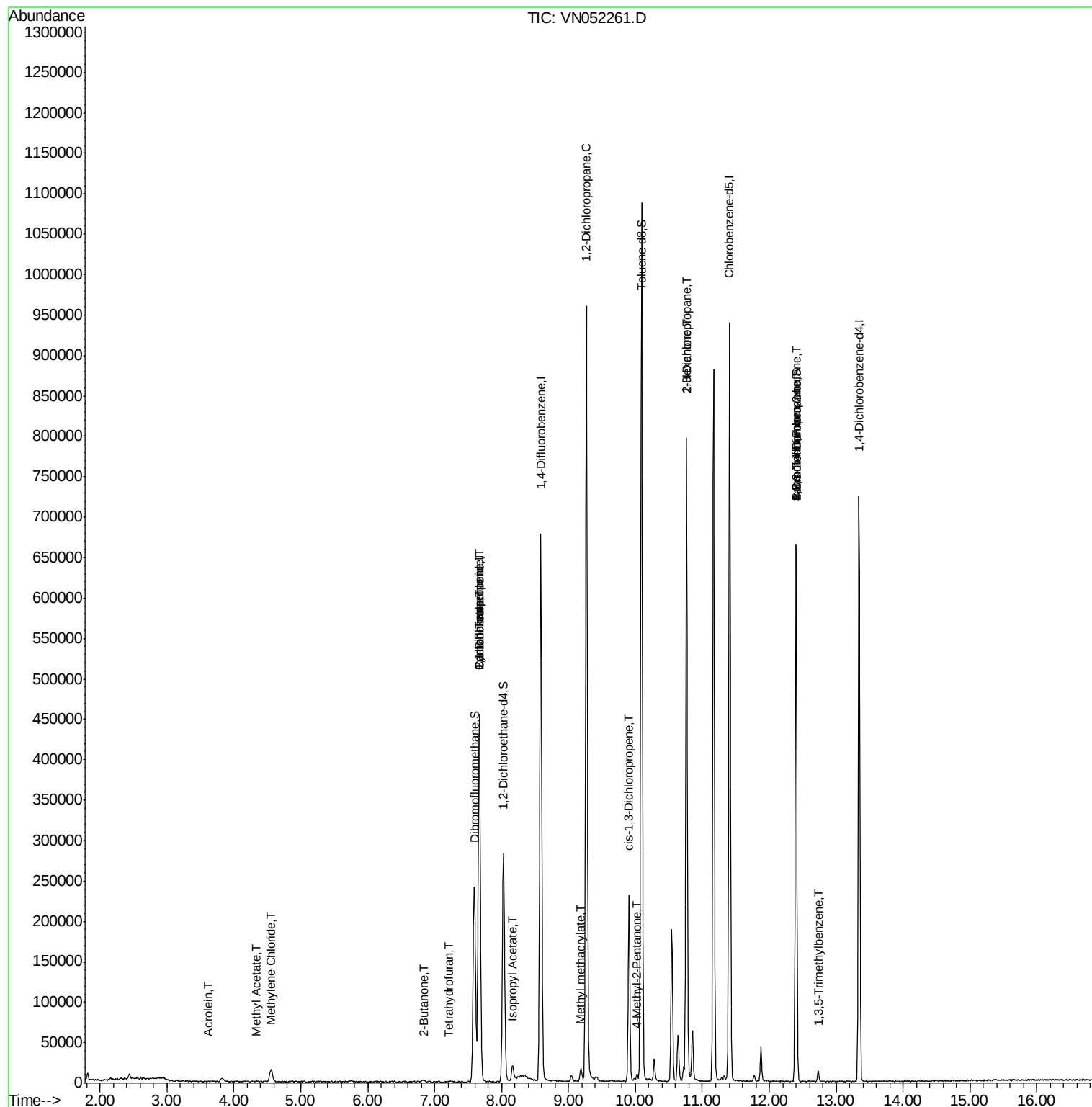
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	59	34.234	ug/l #	12
16) Acetone	3.82	43	7332	Below Cal		100
18) Methyl Acetate	4.33	43	1338	0.336	ug/l #	68
20) Methylene Chloride	4.55	84	10091	2.326	ug/l	97
25) 2-Butanone	6.84	43	495	0.244	ug/l #	52
29) Tetrahydrofuran	7.22	42	525	0.397	ug/l #	59
31) Cyclohexane	7.66	56	9374	0.593	ug/l #	28
36) 1,1-Dichloropropene	7.67	75	30870	5.315	ug/l #	52
38) Carbon Tetrachloride	7.67	117	35750	6.793	ug/l #	17
43) Isopropyl Acetate	8.17	43	25281	3.320	ug/l	99
45) 1,2-Dichloropropane	9.27	63	1159	0.249	ug/l #	44
48) Methyl methacrylate	9.18	41	5243	1.307	ug/l #	15
51) 4-Methyl-2-Pentanone	10.02	43	6882	1.637	ug/l #	40
54) cis-1,3-Dichloropropene	9.90	75	37194	5.775	ug/l #	71
57) 1,3-Dichloropropane	10.76	76	7310	1.126	ug/l #	43
59) 2-Hexanone	10.76	43	126352	42.806	ug/l #	55
71) Bromoform	12.40	173	1858	0.872	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	115208	36.542	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	6210	0.536	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	115208	124.733	ug/l #	8

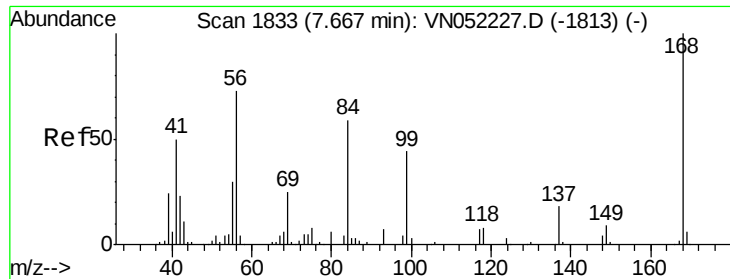
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN052261.D

Acq: 12 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

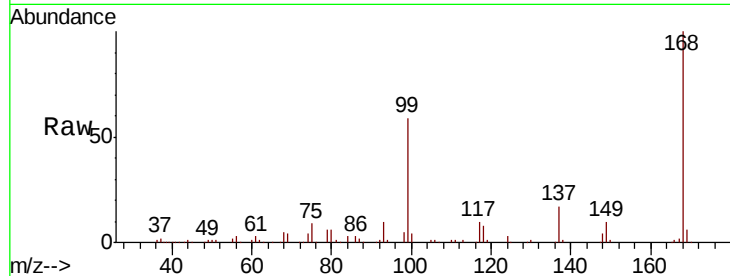
PB114678ZHE#05

Tot Ion:168 Resp: 347969

Ion Ratio Lower Upper

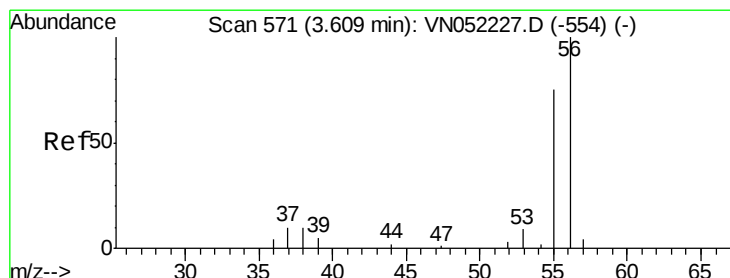
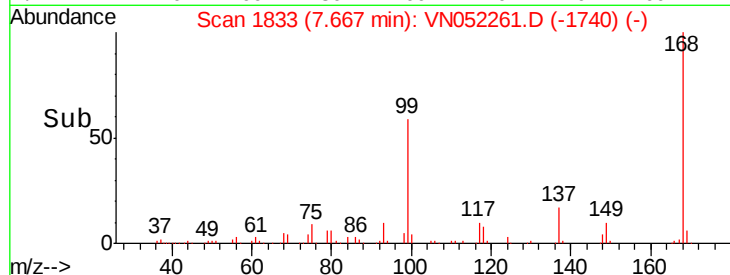
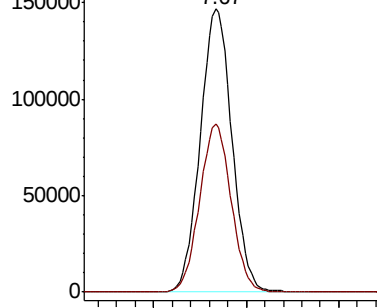
168 100

99 59.4 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#13

Acrolein

Concen: 34.234 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN052261.D

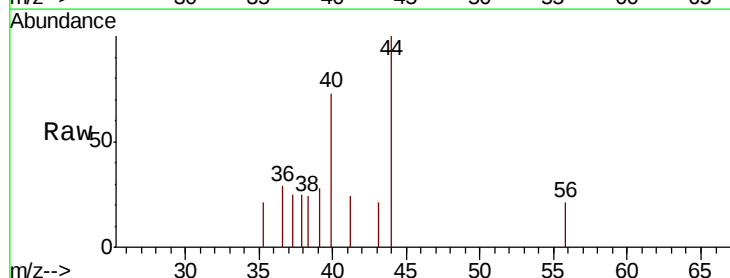
Acq: 12 Nov 2018 14:45

Tgt Ion: 56 Resp: 59

Ion Ratio Lower Upper

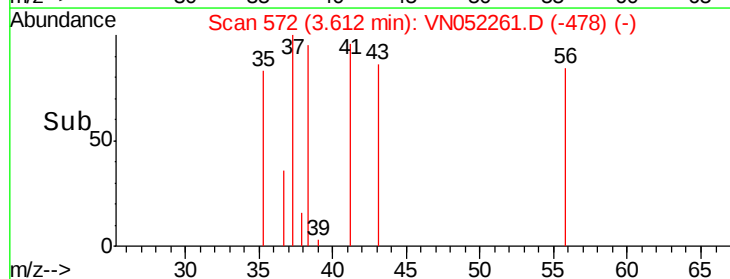
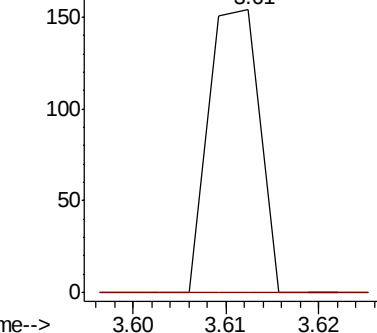
56 100

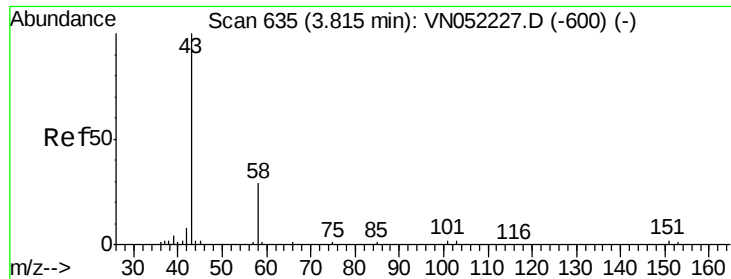
55 0.0 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052261.D

Acq: 12 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

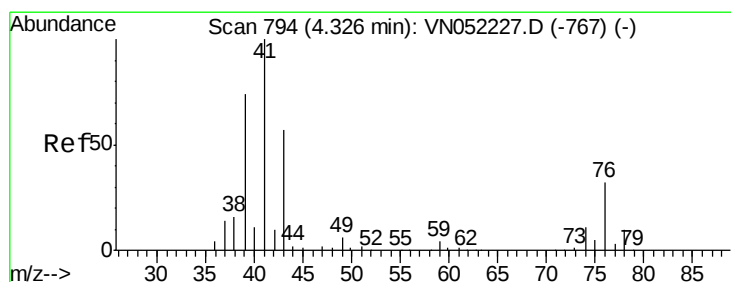
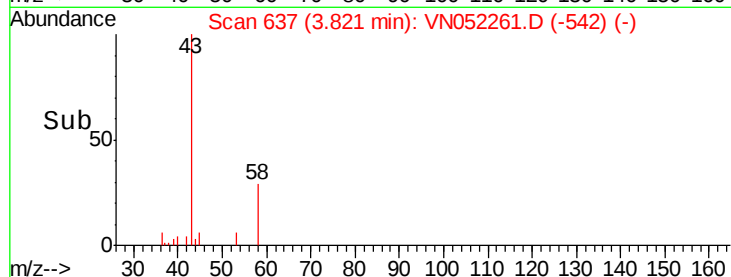
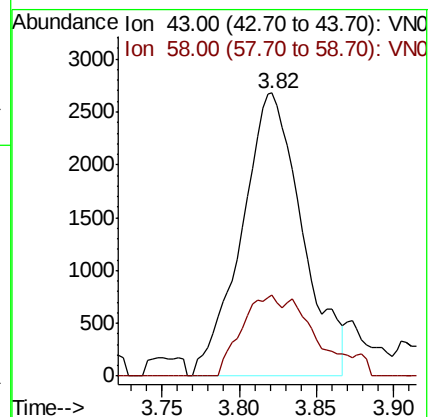
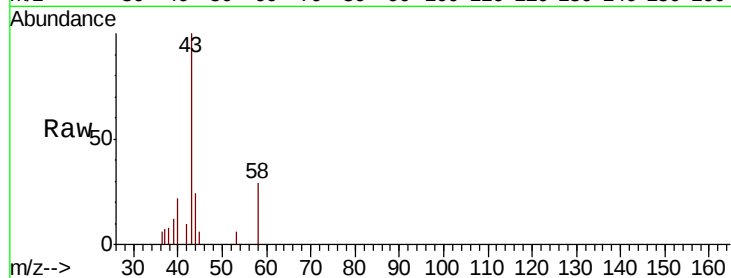
PB114678ZHE#05

Tot Ion: 43 Resp: 7332

Ion Ratio Lower Upper

43 100

58 28.7 23.0 34.6



#18

Methyl Acetate

Concen: 0.336 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN052261.D

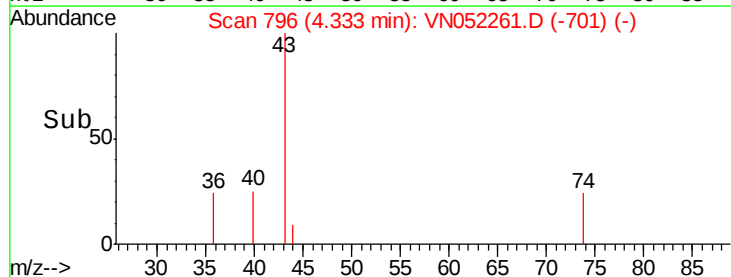
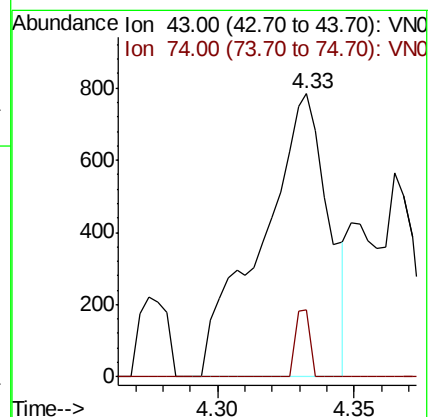
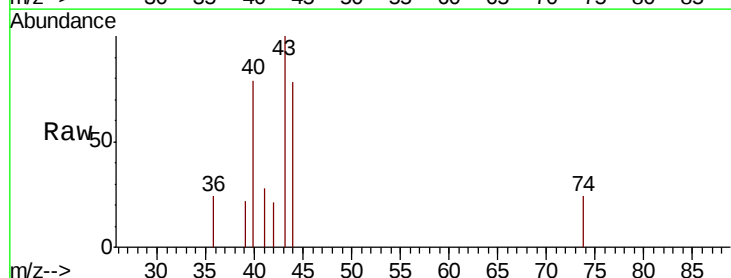
Acq: 12 Nov 2018 14:45

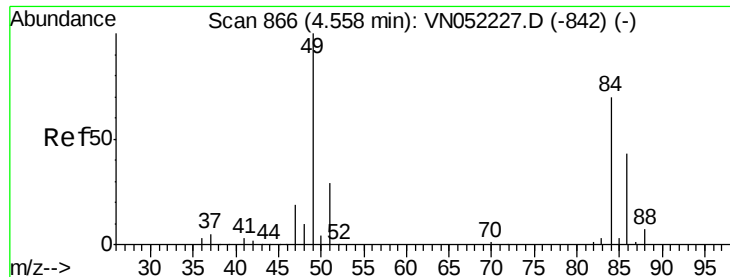
Tgt Ion: 43 Resp: 1338

Ion Ratio Lower Upper

43 100

74 5.3 16.2 24.2#

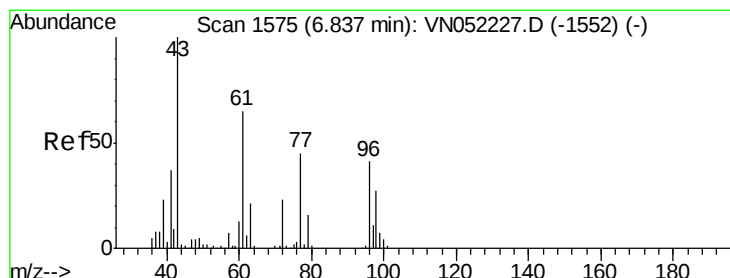
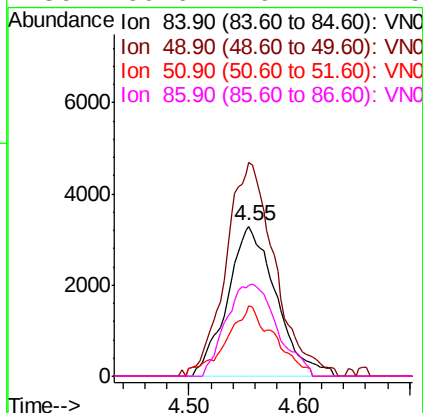
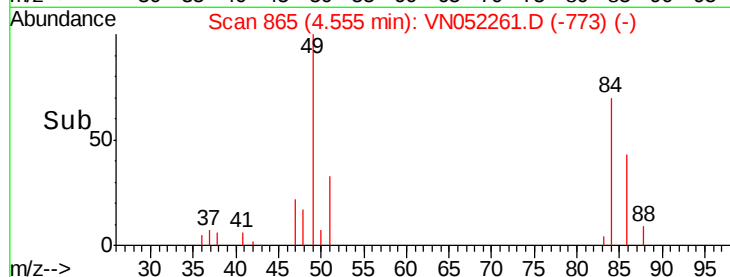
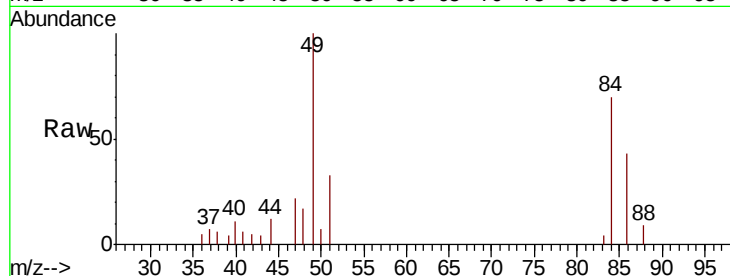




#20
Methvlene Chloride
Concen: 2.326 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052261.D
Acq: 12 Nov 2018 14:45

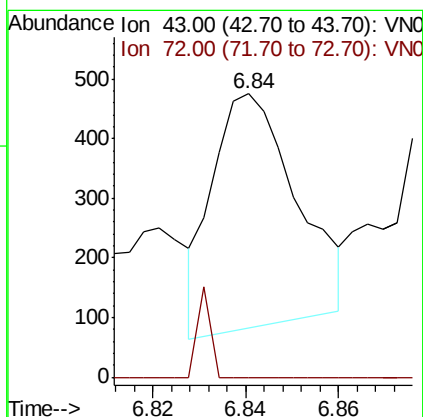
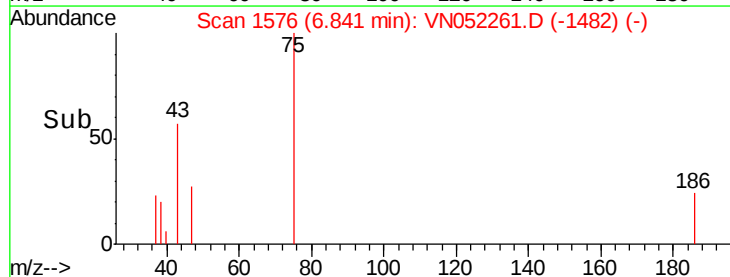
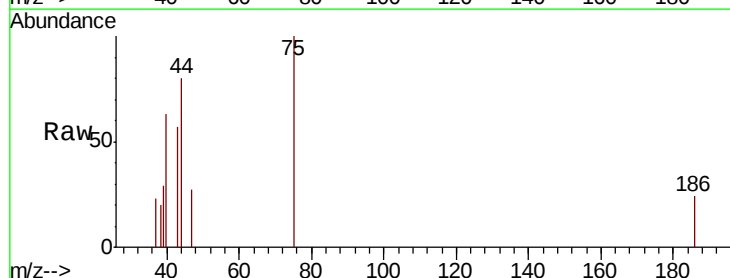
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#05

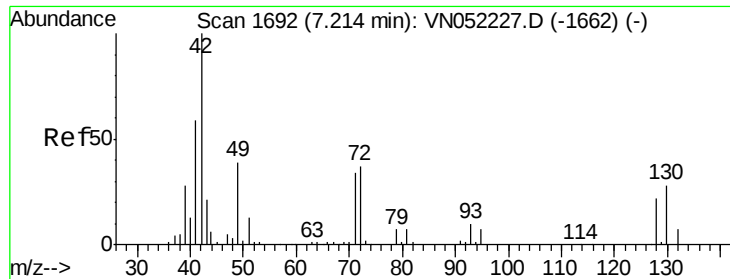
Tot Ion: 84 Resp: 10091
Ion Ratio Lower Upper
84 100
49 142.3 114.8 172.2
51 46.9 33.1 49.7
86 60.6 49.7 74.5



#25
2-Butanone
Concen: 0.244 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN052261.D
Acq: 12 Nov 2018 14:45

Tgt Ion: 43 Resp: 495
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#





#29

Tetrahydrofuran

Concen: 0.397 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN052261.D

Acq: 12 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#05

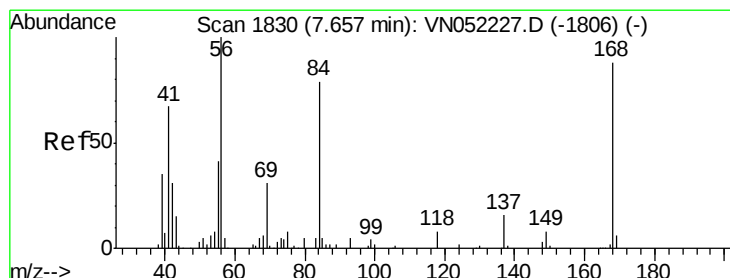
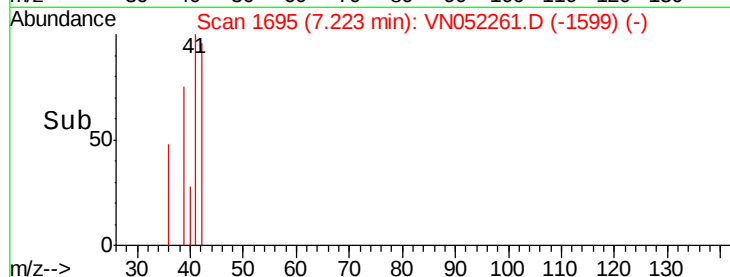
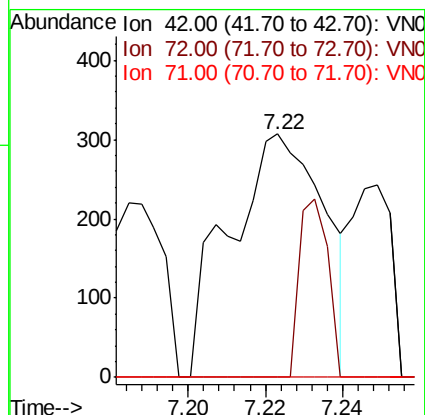
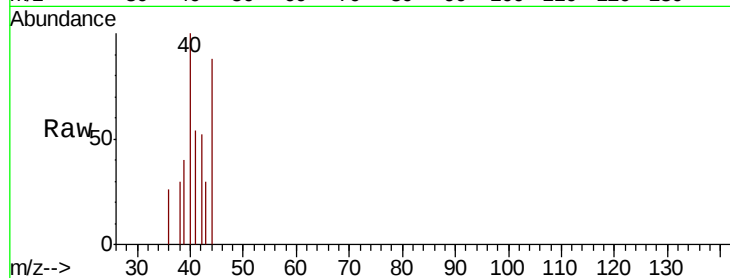
Tot Ion: 42 Resp: 525

Ion Ratio Lower Upper

42 100

72 22.1 28.6 43.0#

71 0.0 27.1 40.7#



#31

Cyclohexane

Concen: 0.593 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052261.D

Acq: 12 Nov 2018 14:45

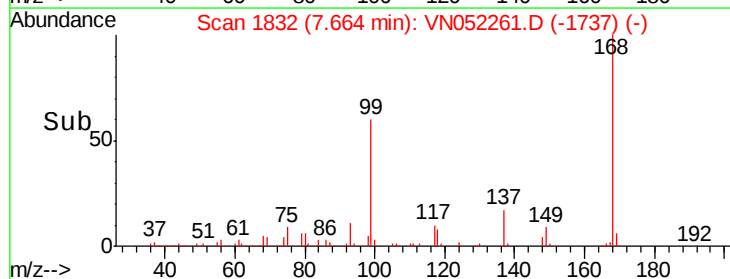
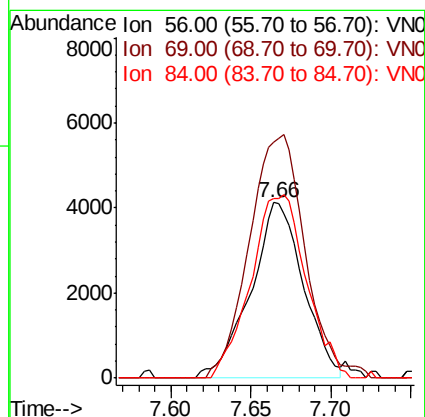
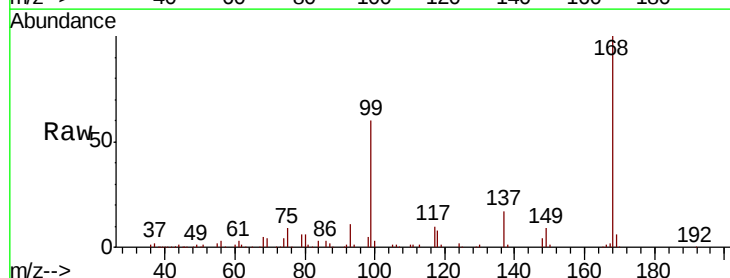
Tgt Ion: 56 Resp: 9374

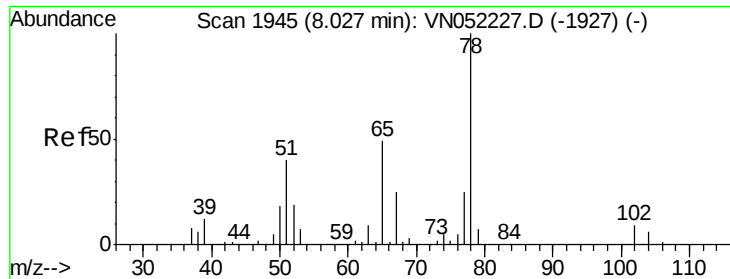
Ion Ratio Lower Upper

56 100

69 134.1 24.8 37.2#

84 102.3 63.1 94.7#

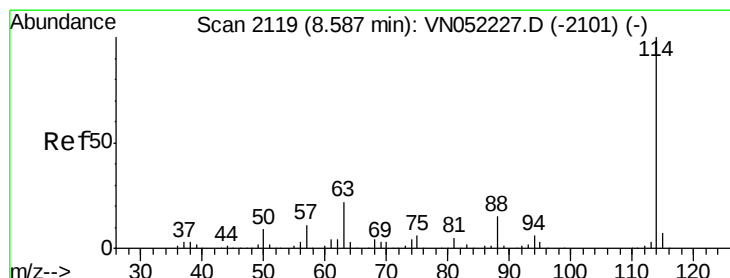
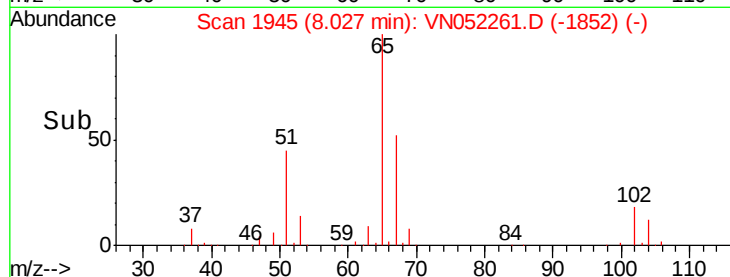
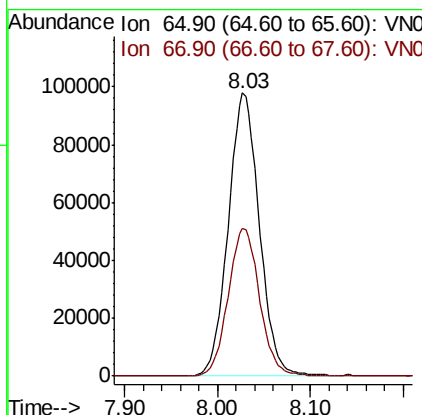
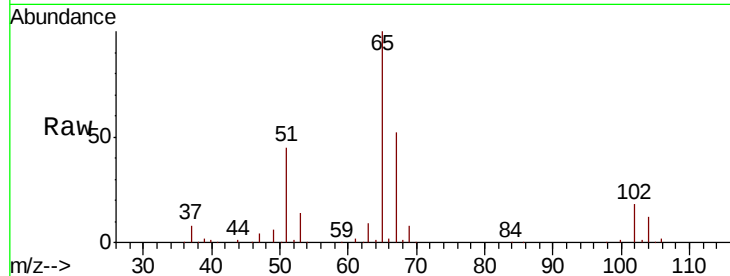




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052261.D
 Acq: 12 Nov 2018 14:45

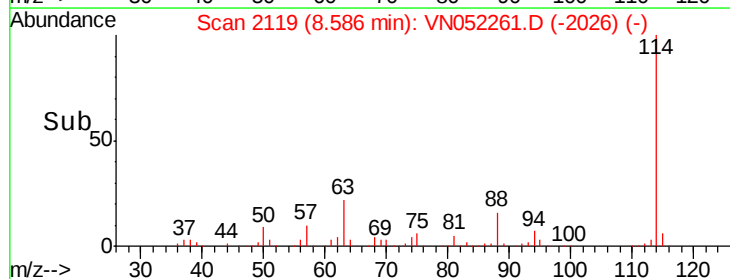
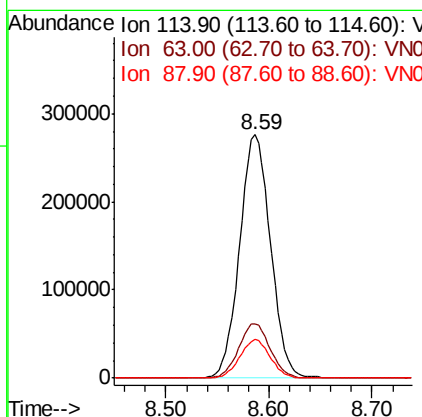
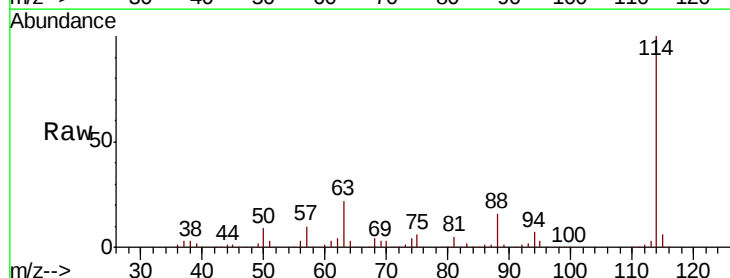
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 PB114678ZHE#05

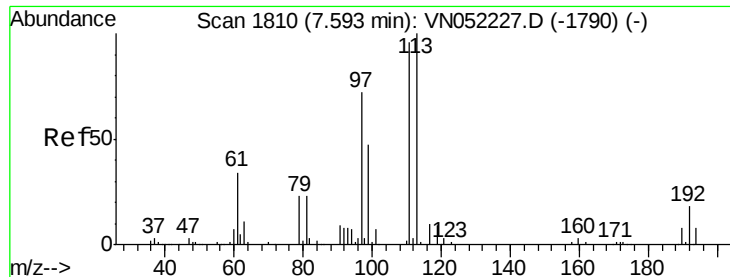
Tot Ion: 65 Resp: 227716
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052261.D
 Acq: 12 Nov 2018 14:45

Tgt Ion: 114 Resp: 575383
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.4
 88 15.7 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN052261.D

Acq: 12 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#05

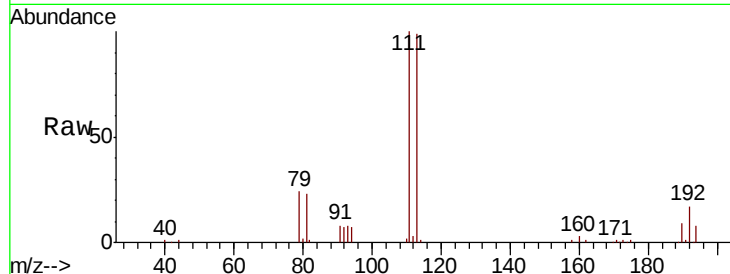
Tot Ion:113 Resp: 185654

Ion Ratio Lower Upper

113 100

111 100.9 80.2 120.4

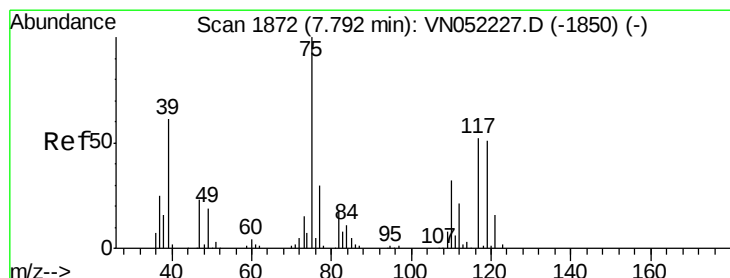
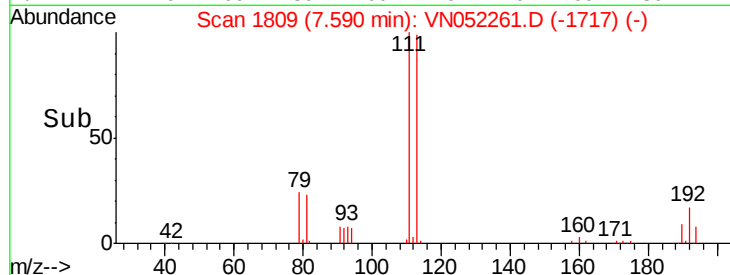
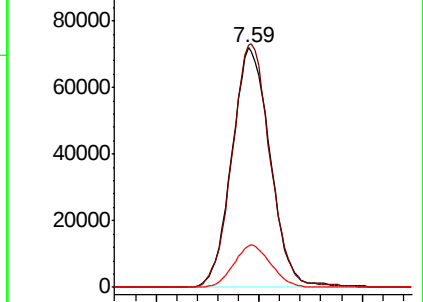
192 17.2 14.1 21.1



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: 5.315 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052261.D

Acq: 12 Nov 2018 14:45

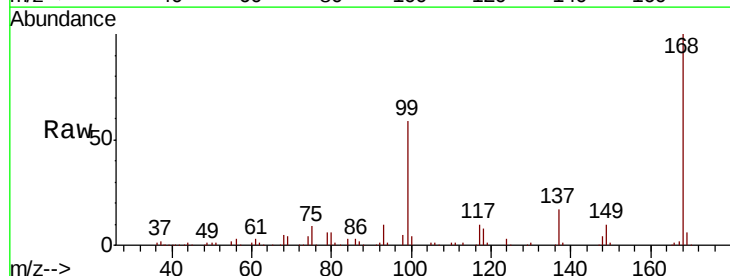
Tgt Ion: 75 Resp: 30870

Ion Ratio Lower Upper

75 100

110 9.6 16.4 49.4#

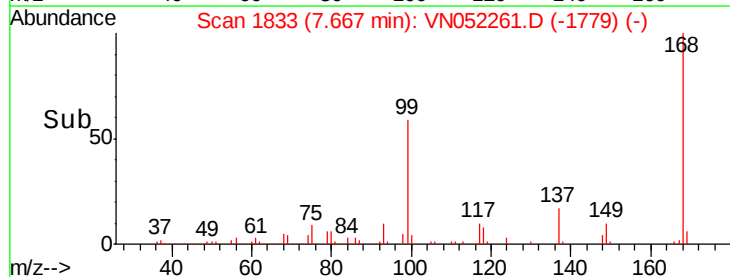
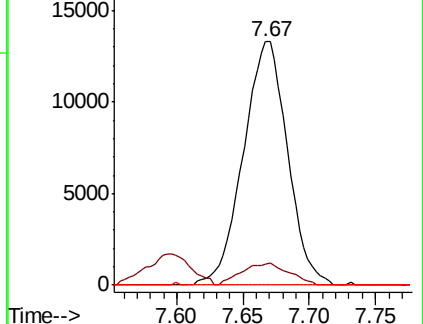
77 0.0 23.9 35.9#

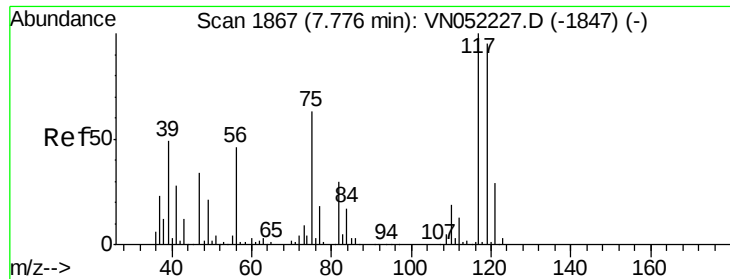


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.793 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN052261.D

Acq: 12 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#05

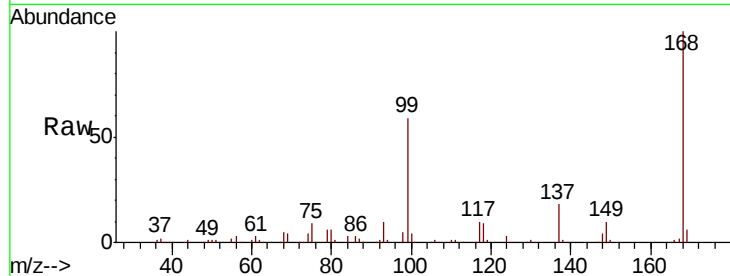
Tot Ion:117 Resp: 35750

Ion Ratio Lower Upper

117 100

119 5.9 75.8 113.8#

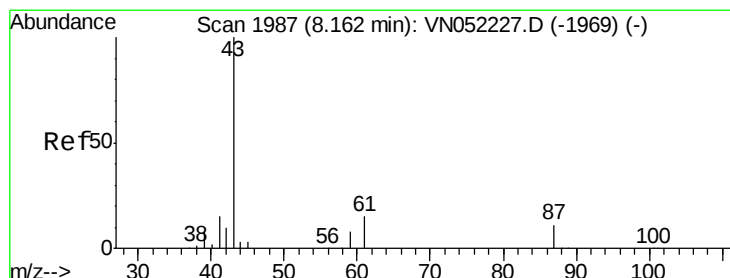
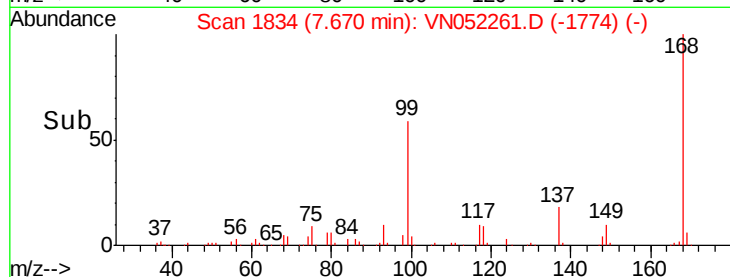
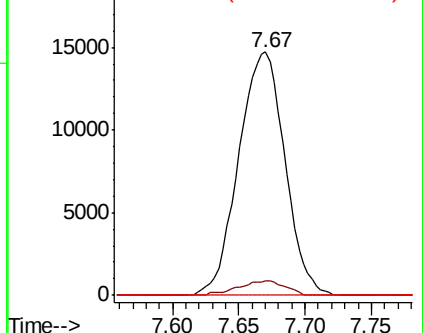
121 0.0 23.4 35.2#



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: 3.320 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052261.D

Acq: 12 Nov 2018 14:45

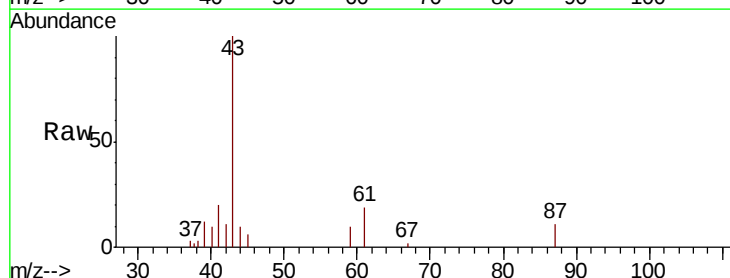
Tgt Ion: 43 Resp: 25281

Ion Ratio Lower Upper

43 100

61 17.4 14.2 21.4

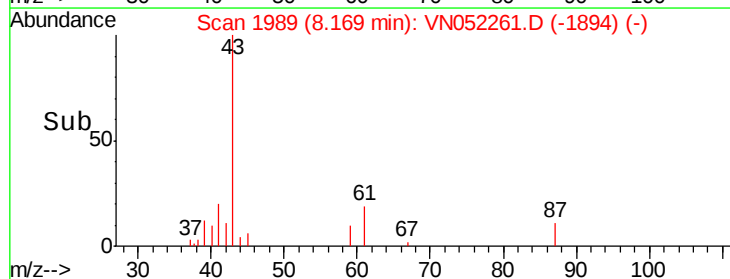
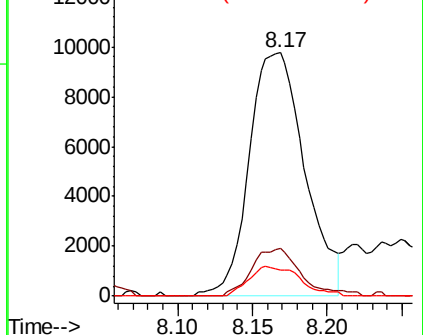
87 11.3 8.4 12.6

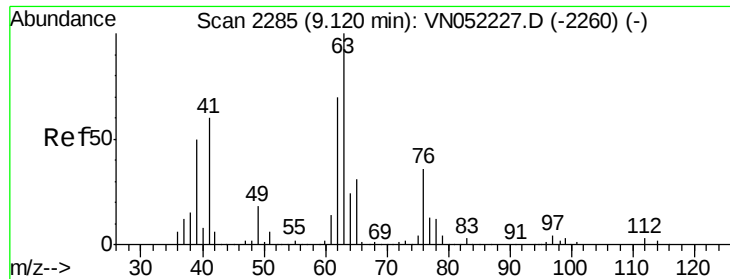


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

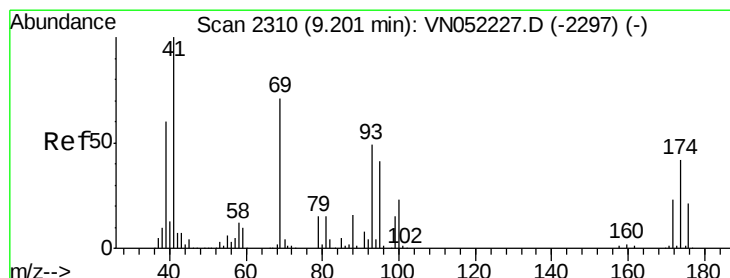
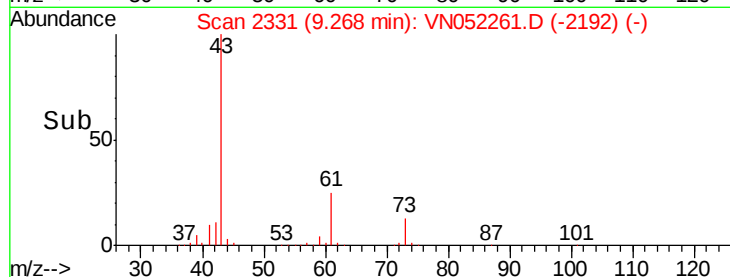
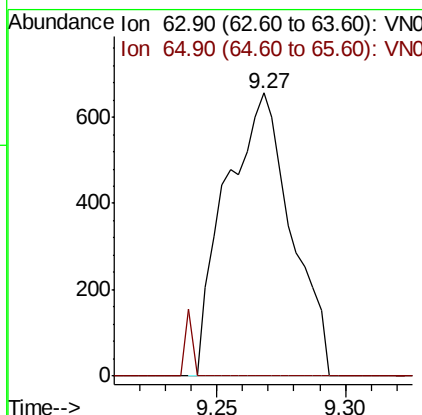
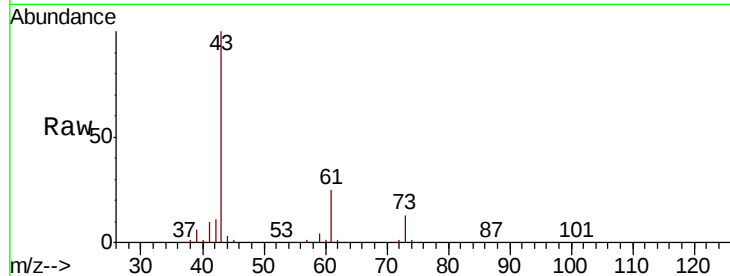




#45
 1,2-Dichloropropane
 Concen: 0.249 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN052261.D
 Acq: 12 Nov 2018 14:45

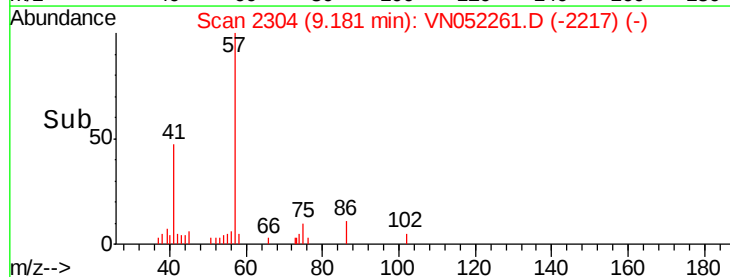
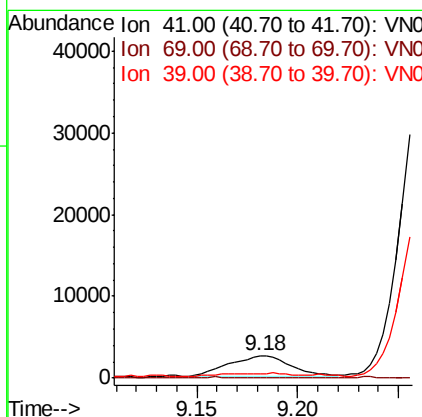
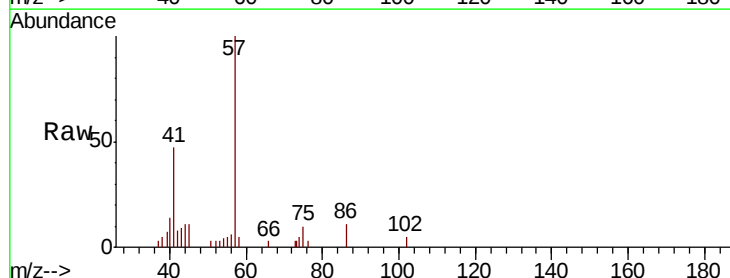
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#05

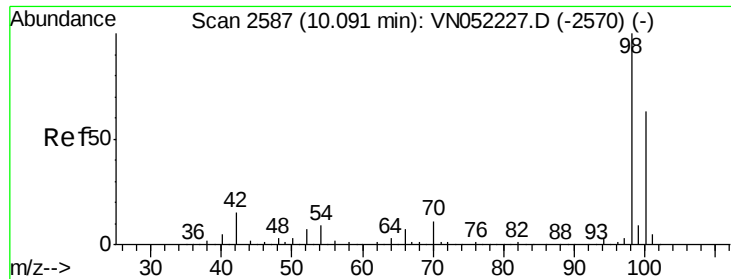
Tot Ion: 63 Resp: 1159
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 1.307 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN052261.D
 Acq: 12 Nov 2018 14:45

Tgt Ion: 41 Resp: 5243
 Ion Ratio Lower Upper
 41 100
 69 0.0 58.8 88.2#
 39 0.0 50.7 76.1#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052261.D

Acq: 12 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

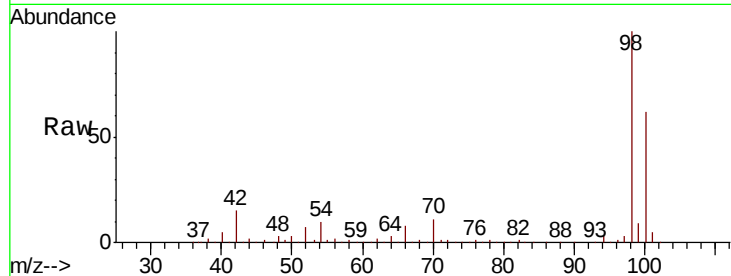
PB114678ZHE#05

Tot Ion: 98 Resp: 723128

Ion Ratio Lower Upper

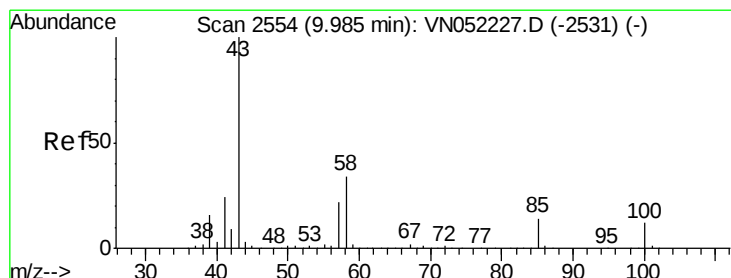
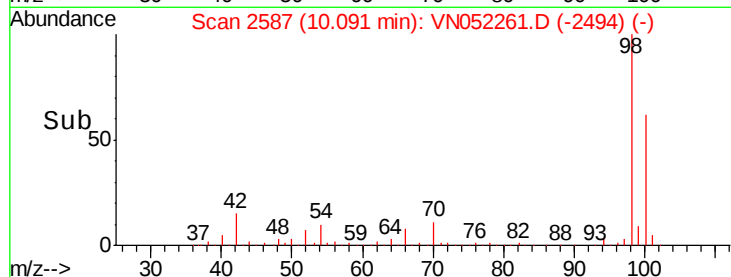
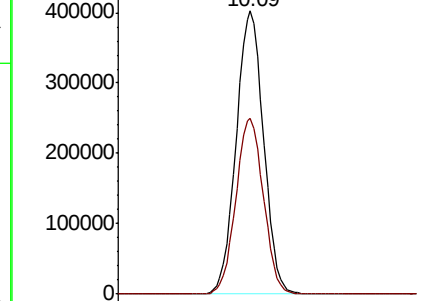
98 100

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): VN



#51

4-Methyl-2-Pentanone

Concen: 1.637 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052261.D

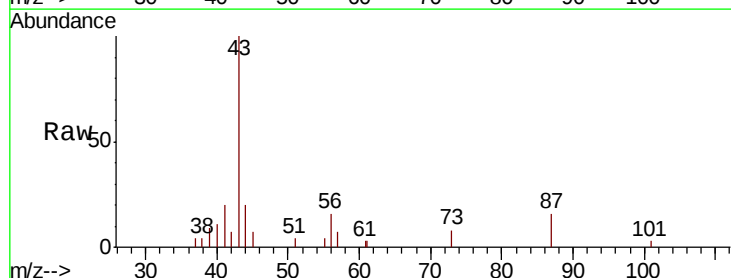
Acq: 12 Nov 2018 14:45

Tgt Ion: 43 Resp: 6882

Ion Ratio Lower Upper

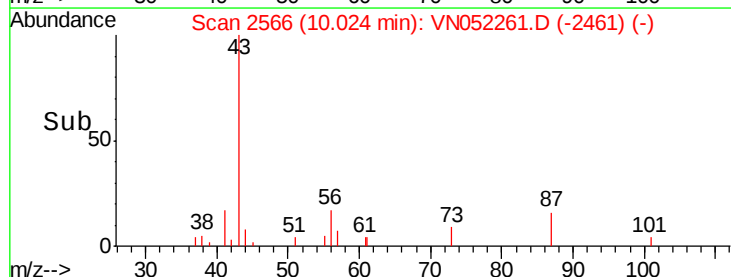
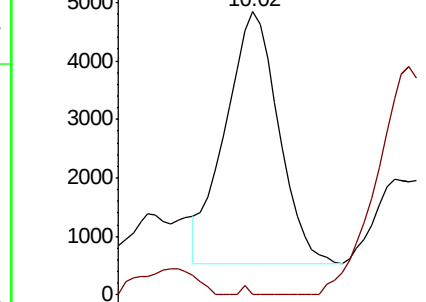
43 100

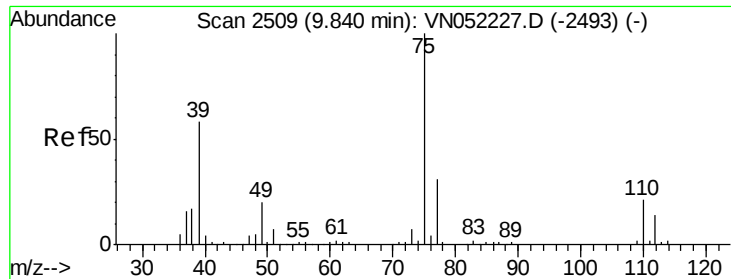
58 0.0 27.4 41.0#



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: 5.775 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052261.D

Acq: 12 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#05

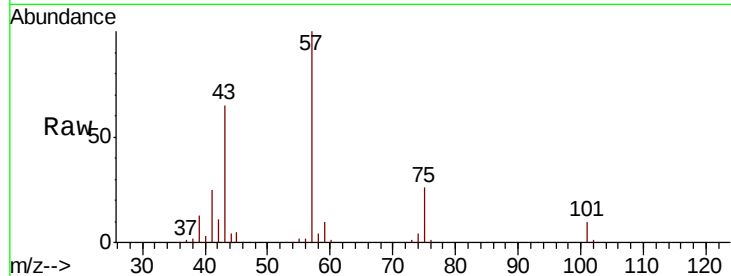
Tot Ion: 75 Resp: 37194

Ion Ratio Lower Upper

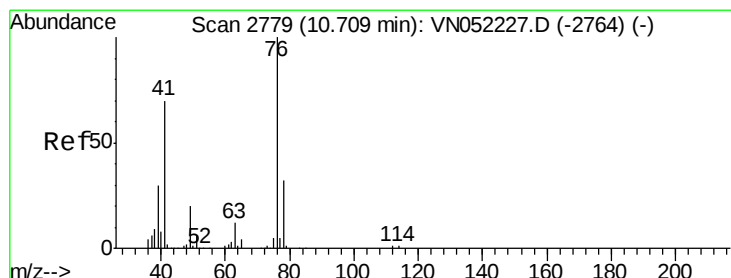
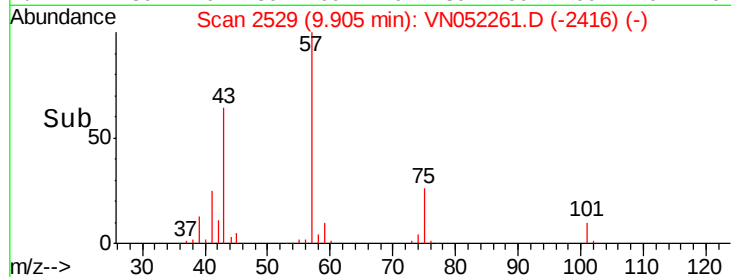
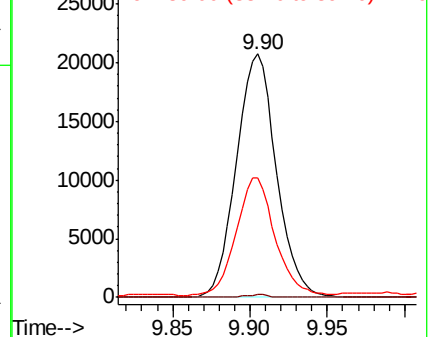
75 100

77 1.0 25.2 37.8#

39 47.7 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



#57

1,3-Dichloropropane

Concen: 1.126 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052261.D

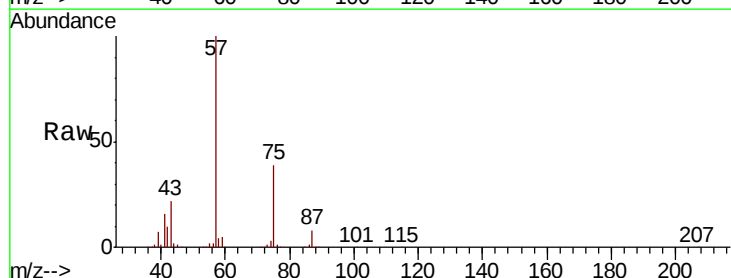
Acq: 12 Nov 2018 14:45

Tgt Ion: 76 Resp: 7310

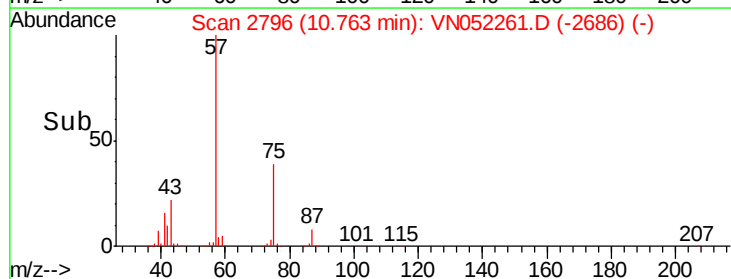
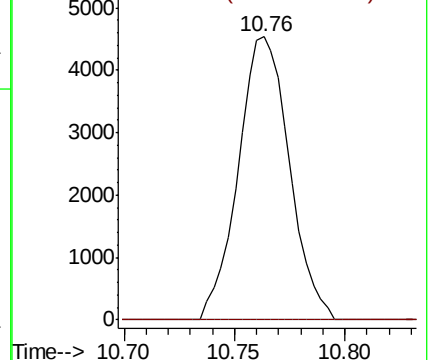
Ion Ratio Lower Upper

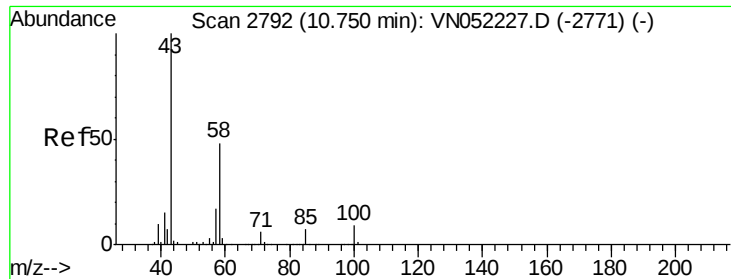
76 100

78 0.0 25.7 38.5#



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

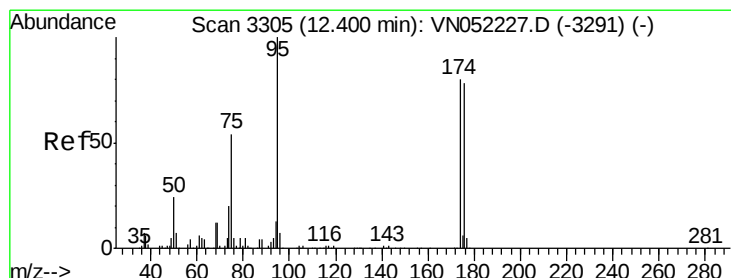
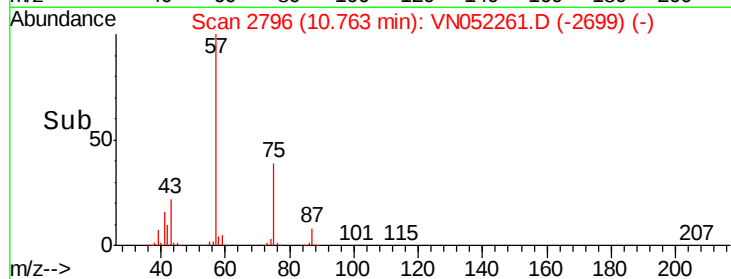
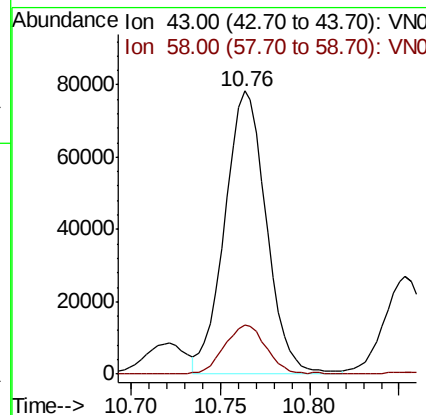
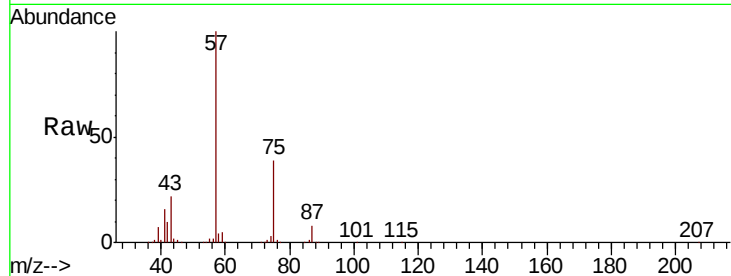




#59
2-Hexanone
Concen: 42.806 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052261.D
Acq: 12 Nov 2018 14:45

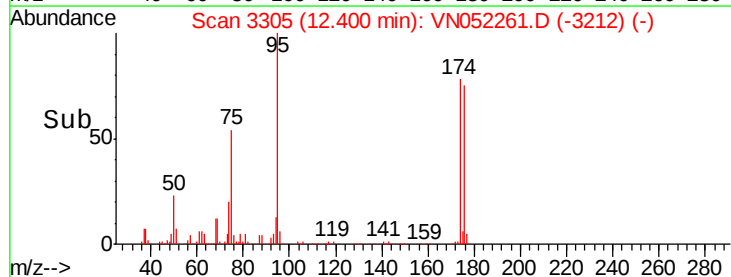
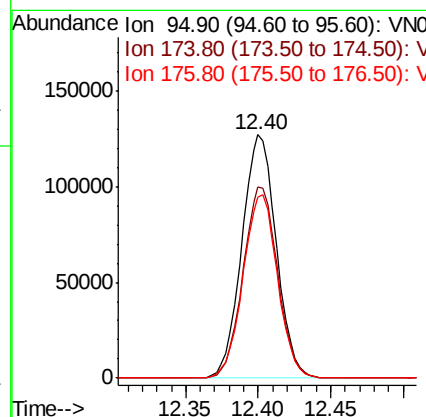
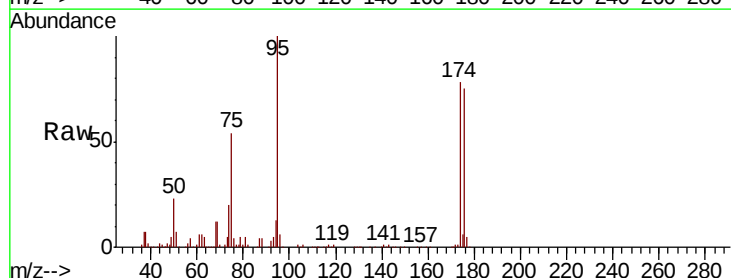
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#05

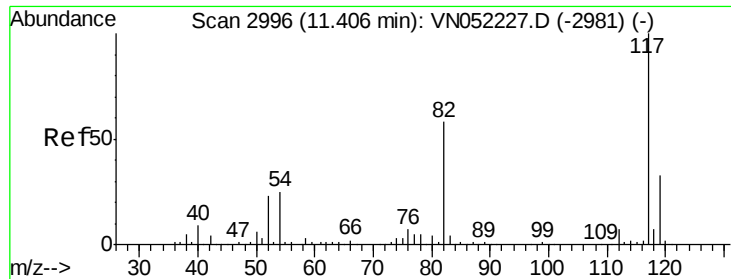
Tot Ion: 43 Resp: 126352
Ion Ratio Lower Upper
43 100
58 17.6 24.1 72.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052261.D
Acq: 12 Nov 2018 14:45

Tgt Ion: 95 Resp: 209677
Ion Ratio Lower Upper
95 100
174 78.9 0.0 159.4
176 75.4 0.0 157.8

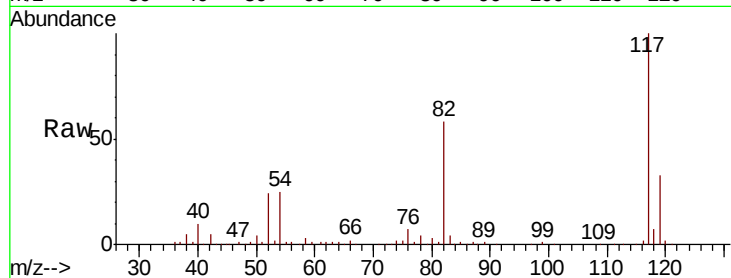




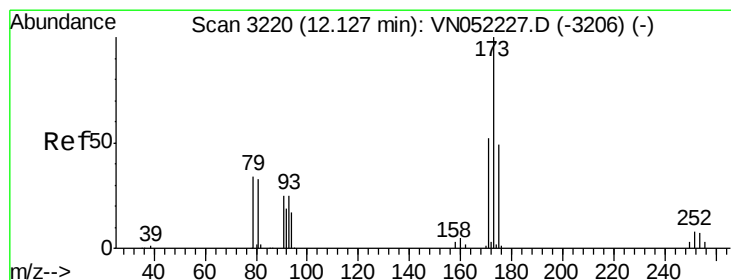
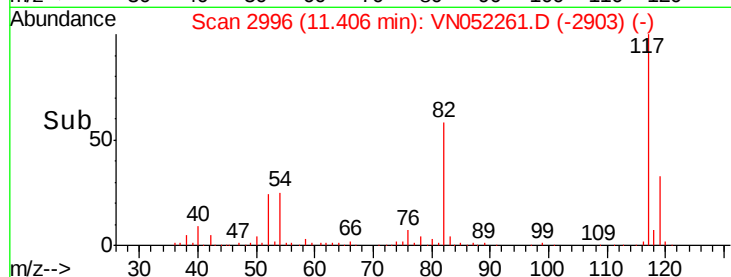
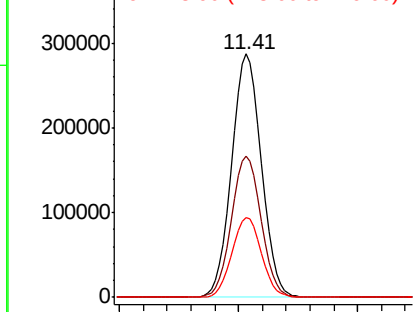
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052261.D
Acq: 12 Nov 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#05

Tot Ion:117 Resp: 497700
Ion Ratio Lower Upper
117 100
82 58.2 46.2 69.2
119 32.8 26.2 39.4

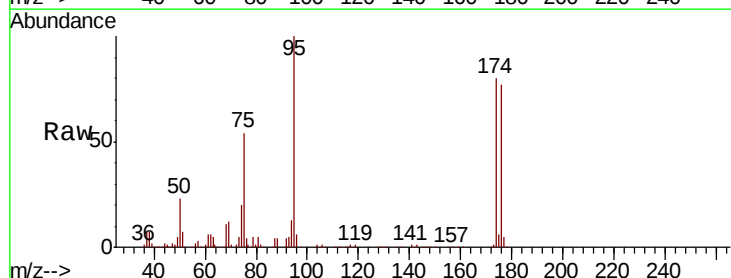


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

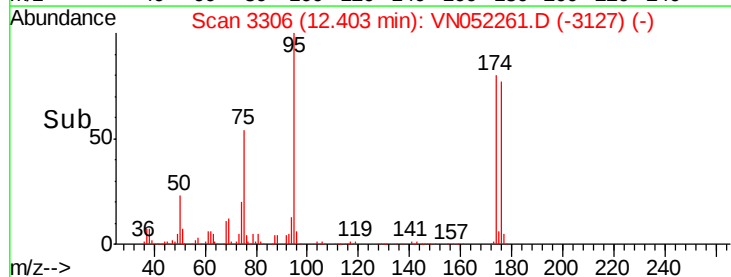
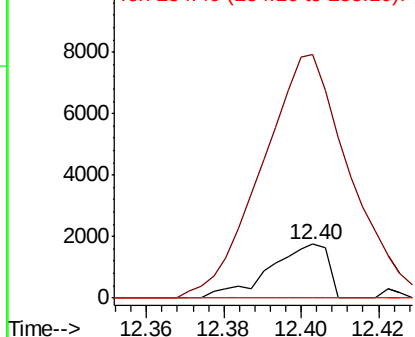


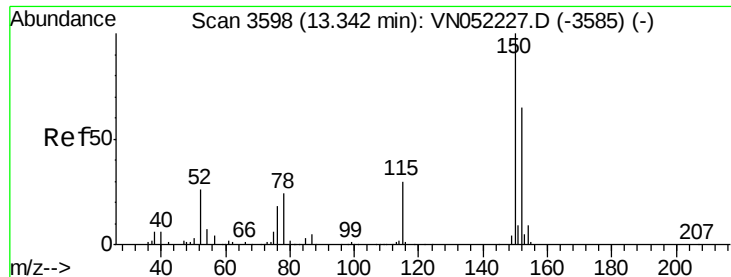
#71
Bromoform
Concen: 0.872 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052261.D
Acq: 12 Nov 2018 14:45

Tgt Ion:173 Resp: 1858
Ion Ratio Lower Upper
173 100
175 589.2 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: VN052261.D

Acq: 12 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#05

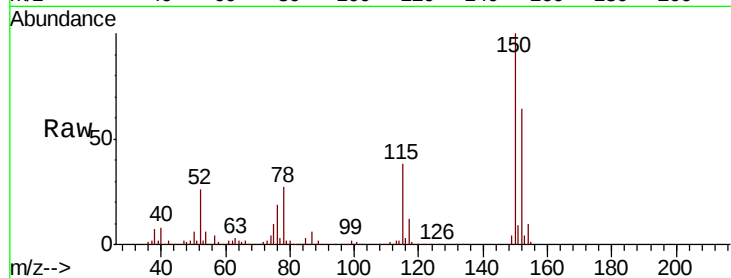
Tot Ion:152 Resp: 178198

Ion Ratio Lower Upper

152 100

115 58.9 29.8 89.5

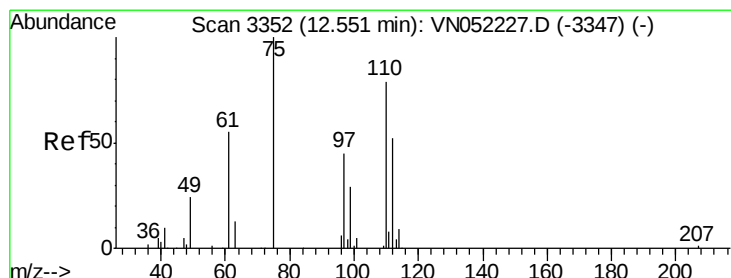
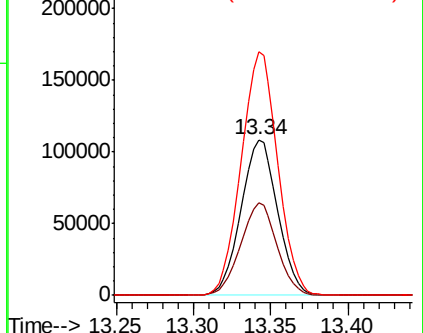
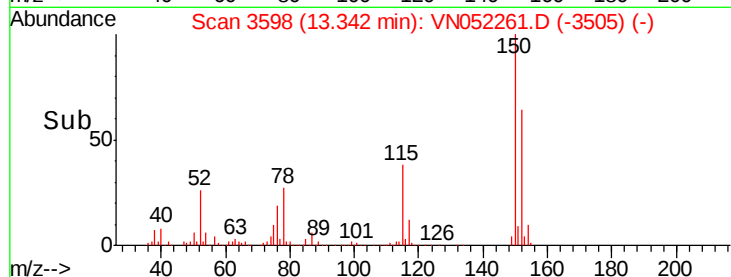
150 156.3 0.0 350.2



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



#76

1,2,3-Trichloropropane

Concen: 36.542 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052261.D

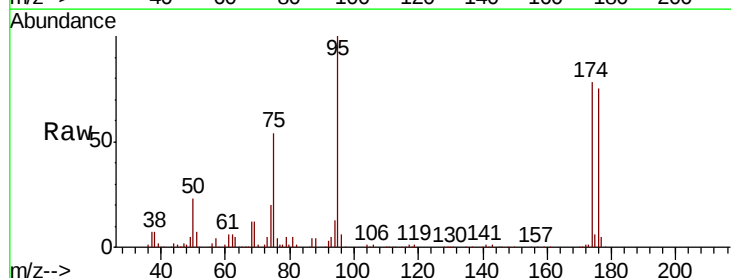
Acq: 12 Nov 2018 14:45

Tgt Ion: 75 Resp: 115208

Ion Ratio Lower Upper

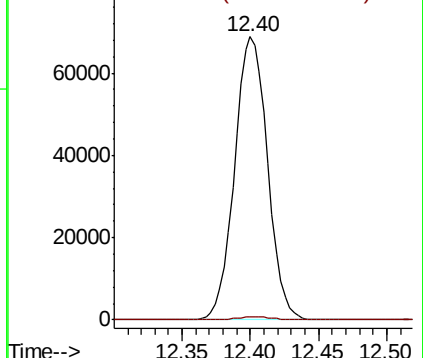
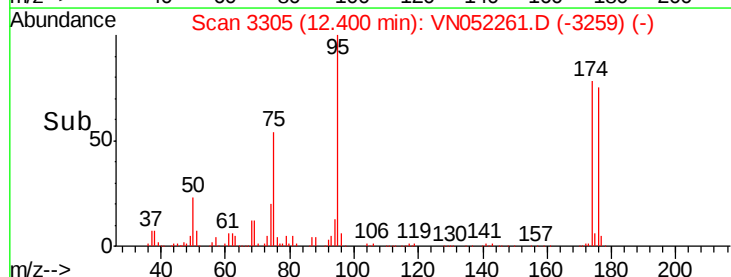
75 100

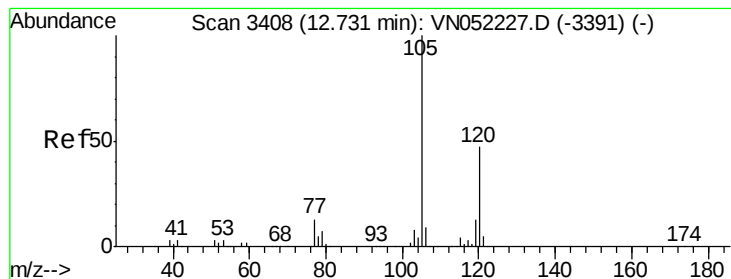
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.536 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052261.D

Acq: 12 Nov 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

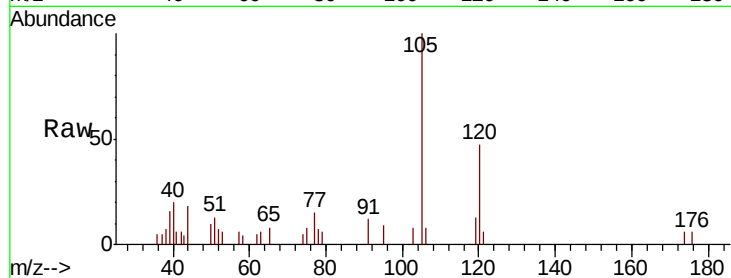
PB114678ZHE#05

Tot Ion:105 Resp: 6210

Ion Ratio Lower Upper

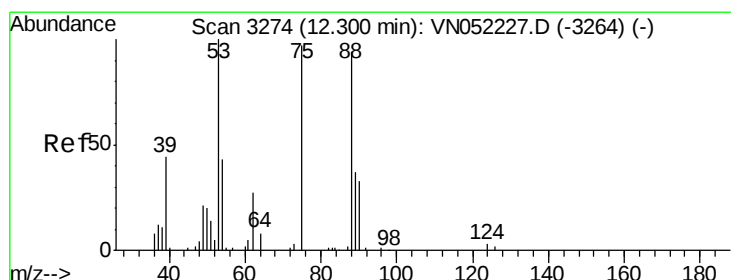
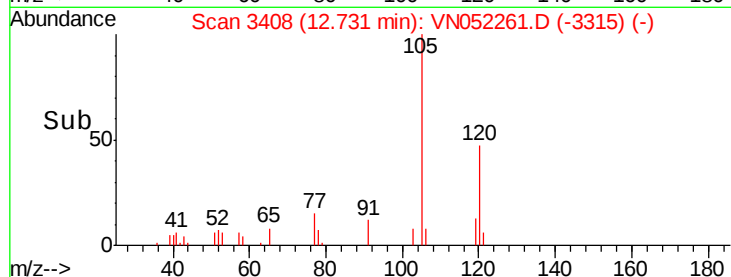
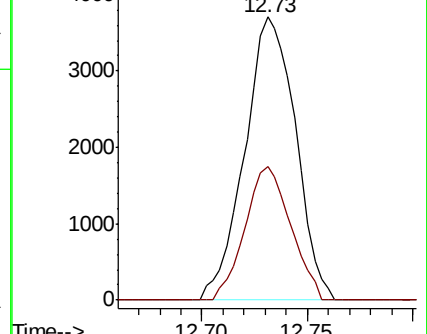
105 100

120 42.3 23.9 71.8



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: 124.733 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052261.D

Acq: 12 Nov 2018 14:45

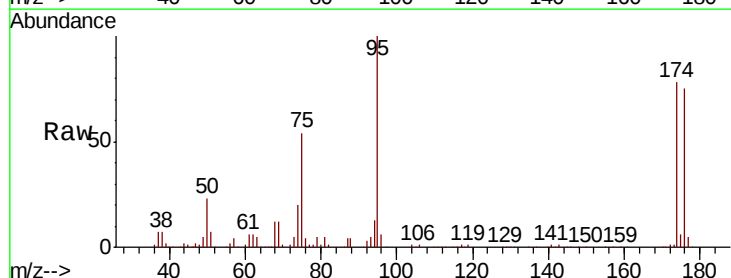
Tgt Ion: 75 Resp: 115208

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

89 0.0 33.7 50.5#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

