

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111218\
 Data File : VN052265.D
 Acq On : 12 Nov 2018 16:31
 Operator : MD\SY
 Sample : PB114678ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#09

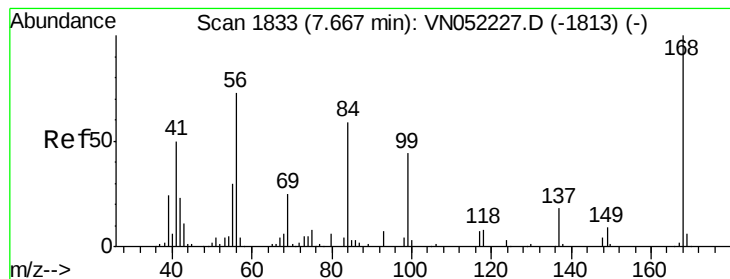
Quant Time: Nov 13 00:15:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	339949	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	571194	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	487252	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	168948	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	224763	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
35) Dibromofluoromethane	7.59	113	182524	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	10.09	98	717251	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
62) 4-Bromofluorobenzene	12.40	95	206817	44.17	ug/l	0.00
Spiked Amount			Recovery	=	88.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	59	34.237	ug/l #	12
16) Acetone	3.82	43	6906	Below Cal		90
20) Methylene Chloride	4.56	84	5963	1.407	ug/l #	92
25) 2-Butanone	6.86	43	814	0.410	ug/l #	67
29) Tetrahydrofuran	7.21	42	922	0.714	ug/l #	40
31) Cyclohexane	7.67	56	9658	0.662	ug/l #	20
36) 1,1-Dichloropropene	7.67	75	29710	5.153	ug/l #	51
38) Carbon Tetrachloride	7.67	117	36552	6.996	ug/l #	16
43) Isopropyl Acetate	8.17	43	21920	2.900	ug/l	97
45) 1,2-Dichloropropane	9.27	63	1193	0.259	ug/l #	44
48) Methyl methacrylate	9.18	41	5858	1.471	ug/l #	15
49) 1,4-Dioxane	9.27	88	63	1.968	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	6452	1.546	ug/l #	40
54) cis-1,3-Dichloropropene	9.91	75	38376	6.003	ug/l #	72
57) 1,3-Dichloropropane	10.76	76	8358	1.297	ug/l #	43
59) 2-Hexanone	10.76	43	135718	46.316	ug/l #	54
74) N-amyl acetate	11.88	43	16093	3.210	ug/l #	57
76) 1,2,3-Trichloropropane	12.40	75	111241	37.215	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7251	0.660	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	111241	127.032	ug/l #	8

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

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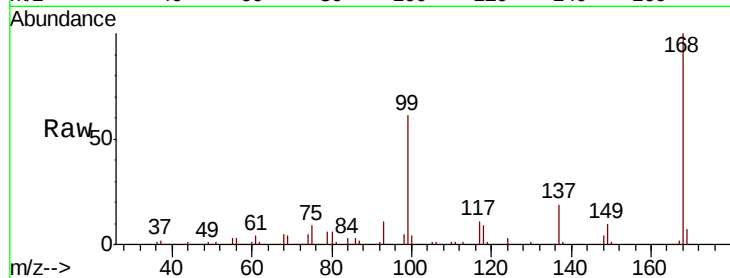
PB114678ZHE#09

Tot Ion:168 Resp: 339949

Ion Ratio Lower Upper

168 100

99 61.1 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

150000

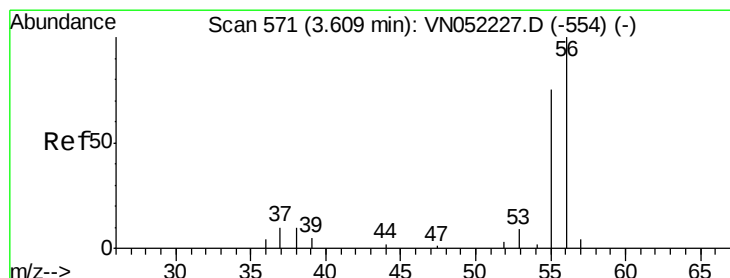
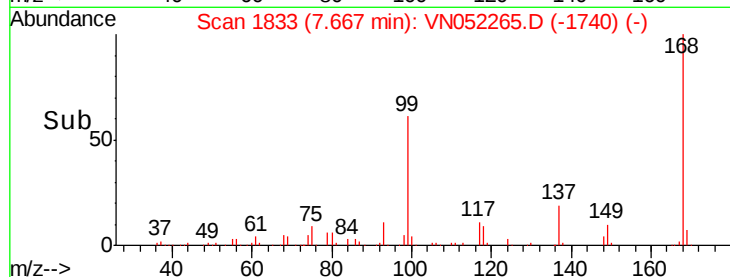
100000

50000

0

7.60 7.70 7.80

Time-->



#13

Acrolein

Concen: 34.237 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.01 min

Lab File: VN052265.D

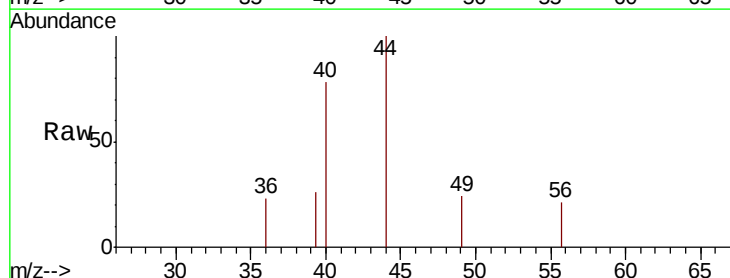
Acq: 12 Nov 2018 16:31

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

3.62

150

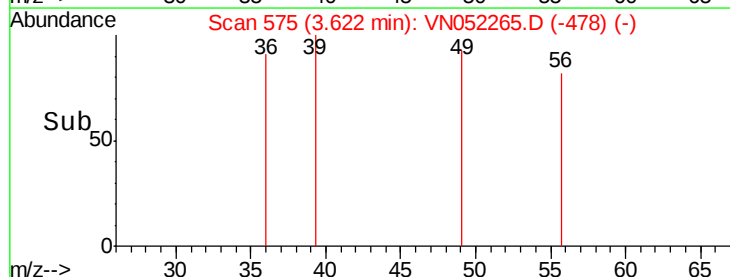
100

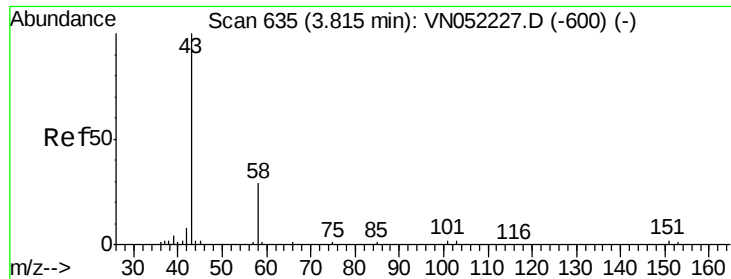
50

0

3.61 3.62 3.63

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052265.D

Acq: 12 Nov 2018 16:31

Instrument :

MSVOA_N

ClientSampleId :

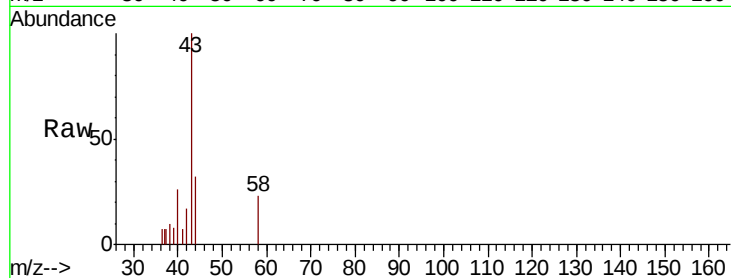
PB114678ZHE#09

Tot Ion: 43 Resp: 6906

Ion Ratio Lower Upper

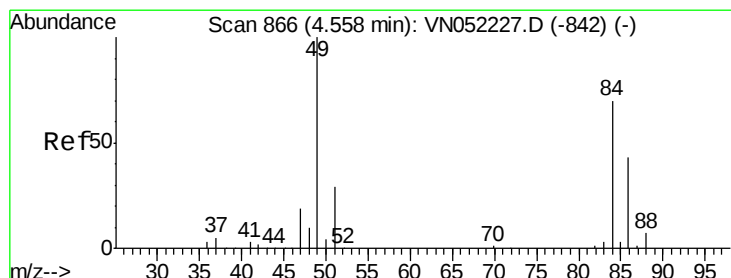
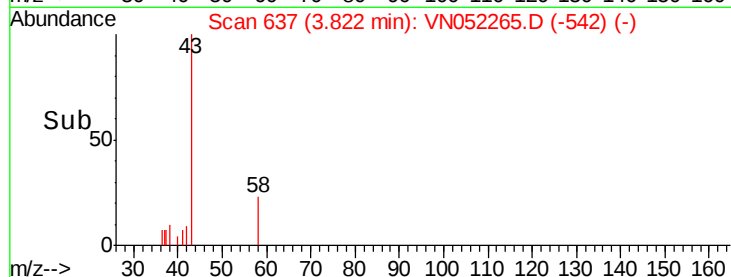
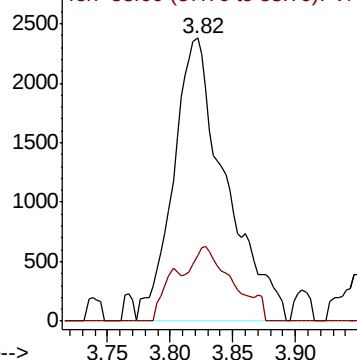
43 100

58 23.3 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



#20

Methylene Chloride

Concen: 1.407 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.00 min

Lab File: VN052265.D

Acq: 12 Nov 2018 16:31

Tgt Ion: 84 Resp: 5963

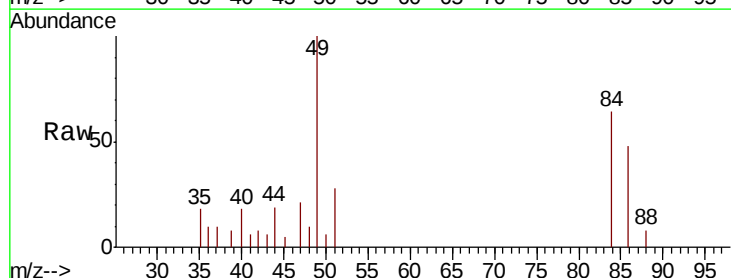
Ion Ratio Lower Upper

84 100

49 147.5 114.8 172.2

51 35.5 33.1 49.7

86 75.3 49.7 74.5#

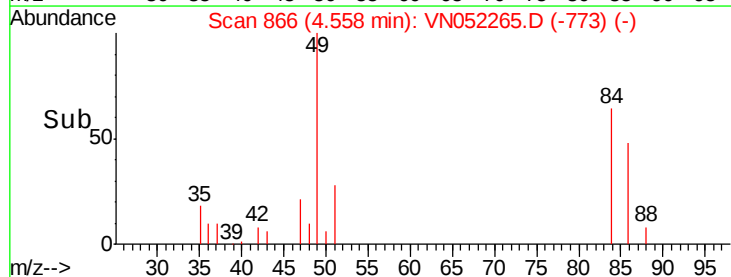
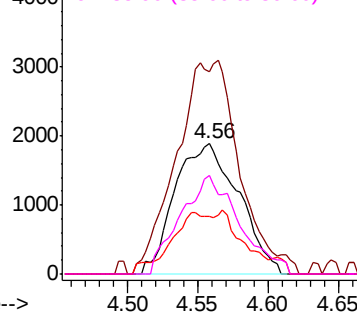


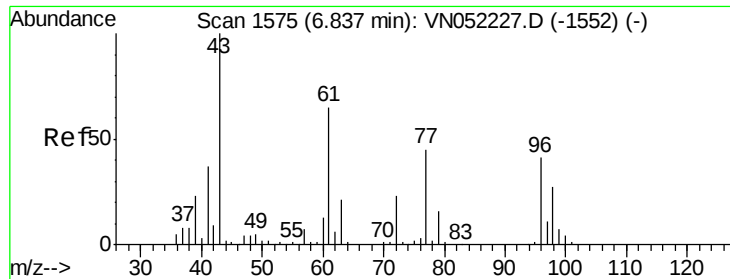
Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO

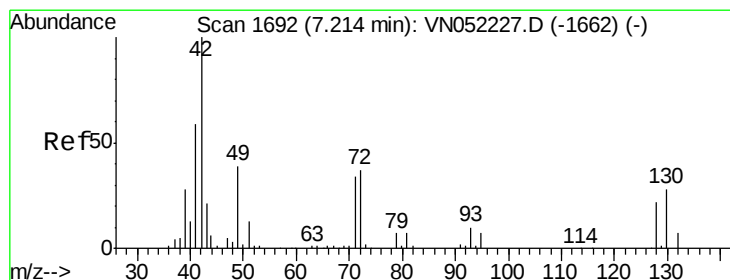
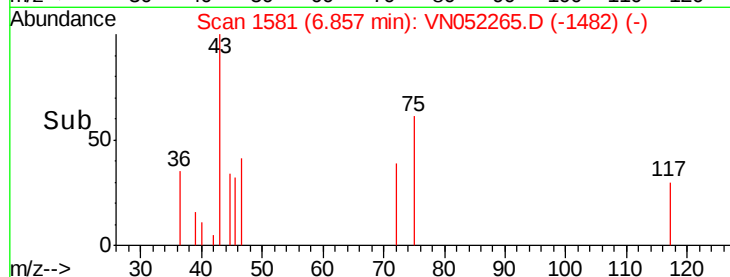
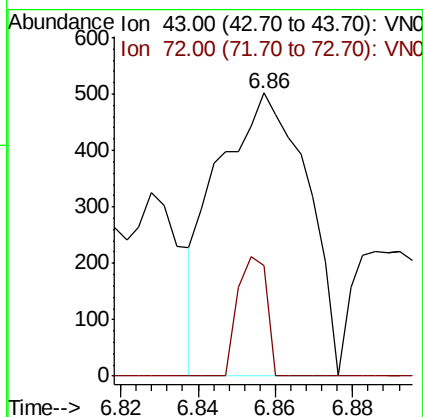
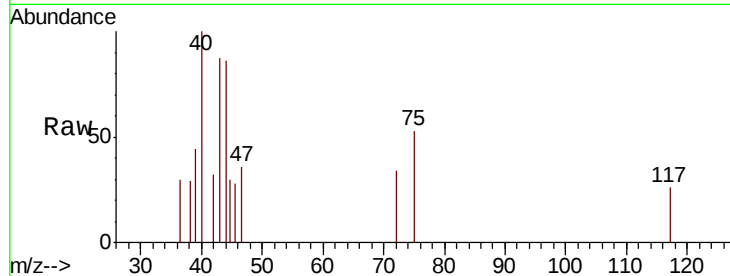




#25
2-Butanone
Concen: 0.410 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN052265.D
Acq: 12 Nov 2018 16:31

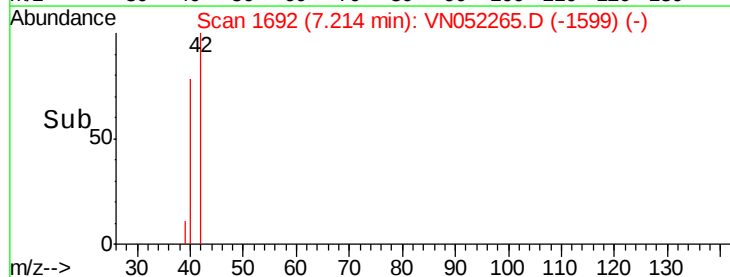
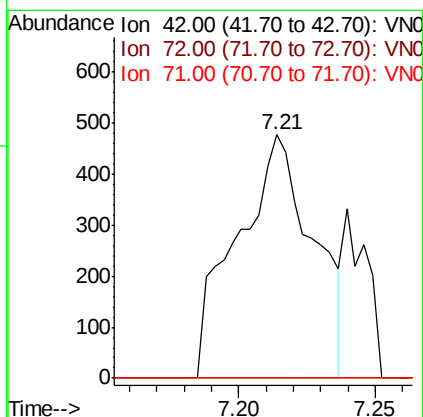
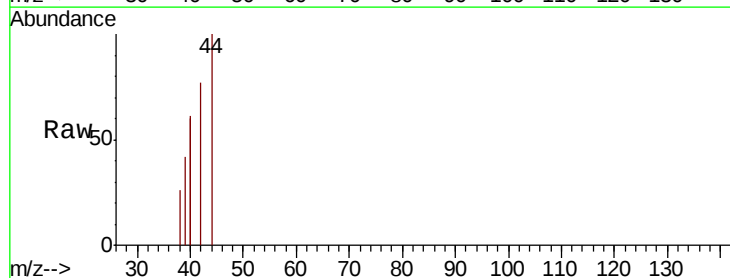
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#09

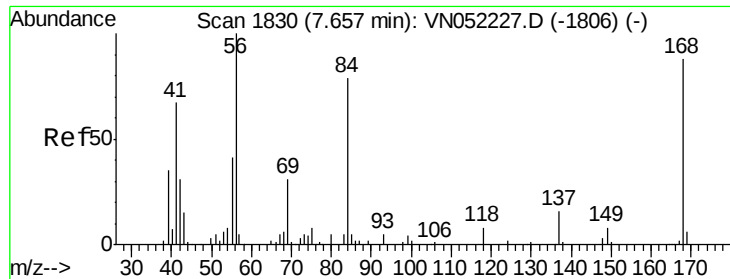
Tot Ion: 43 Resp: 814
Ion Ratio Lower Upper
43 100
72 39.2 18.6 27.8#



#29
Tetrahydrofuran
Concen: 0.714 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN052265.D
Acq: 12 Nov 2018 16:31

Tgt Ion: 42 Resp: 922
Ion Ratio Lower Upper
42 100
72 0.0 28.6 43.0#
71 0.0 27.1 40.7#

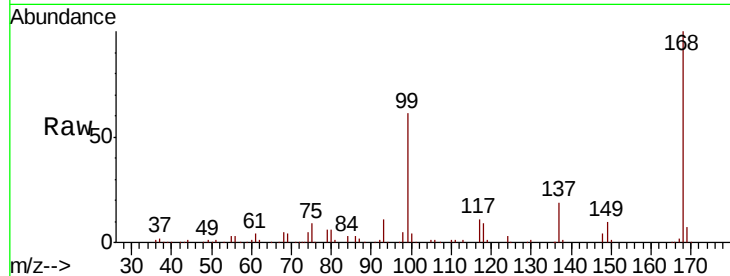




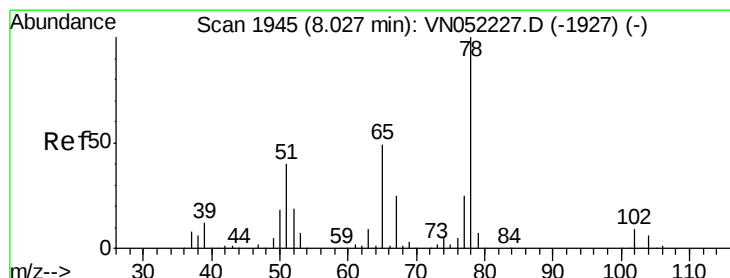
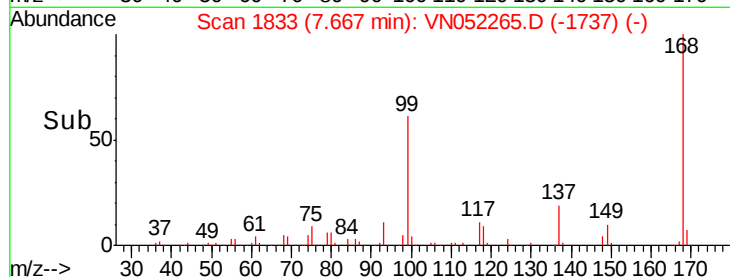
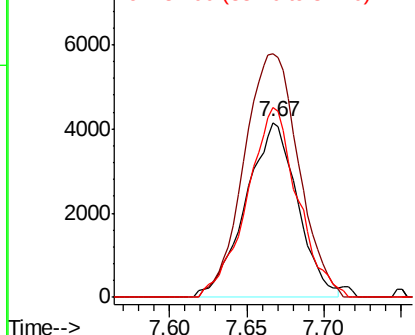
#31
Cyclohexane
Concen: 0.662 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052265.D
Acq: 12 Nov 2018 16:31

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#09

Tot Ion: 56 Resp: 9658
Ion Ratio Lower Upper
56 100
69 139.1 24.8 37.2#
84 108.3 63.1 94.7#

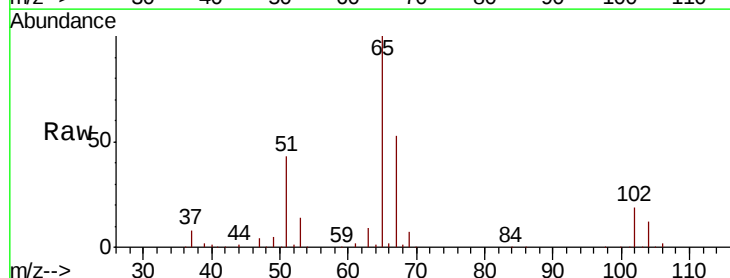


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

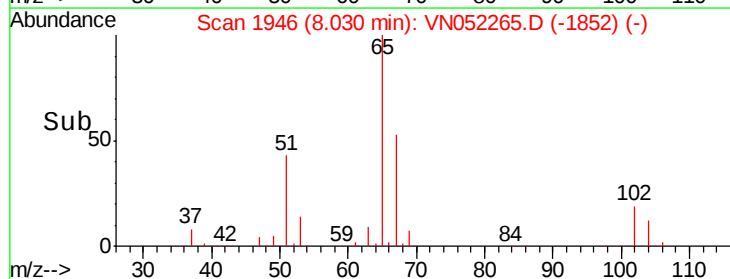
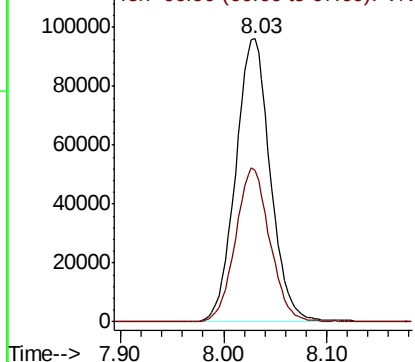


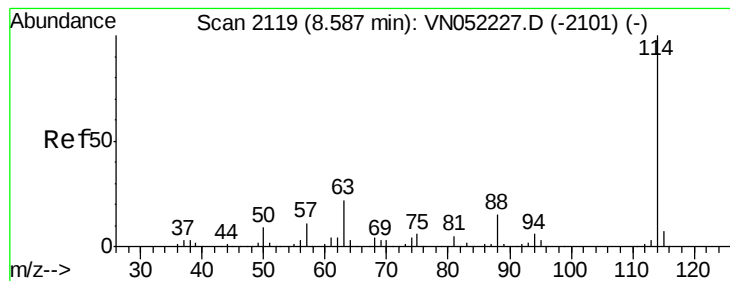
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052265.D
Acq: 12 Nov 2018 16:31

Tgt Ion: 65 Resp: 224763
Ion Ratio Lower Upper
65 100
67 53.8 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: VN052265.D

Acq: 12 Nov 2018 16:31

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#09

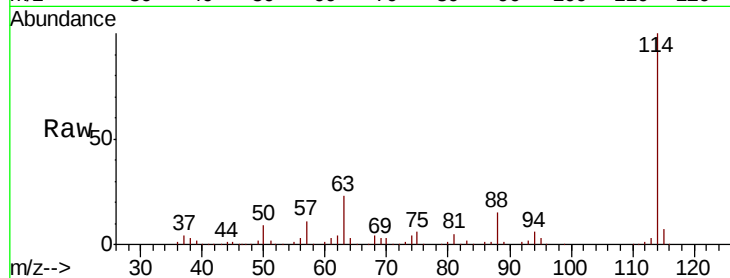
Tot Ion:114 Resp: 571194

Ion Ratio Lower Upper

114 100

63 22.8 0.0 43.4

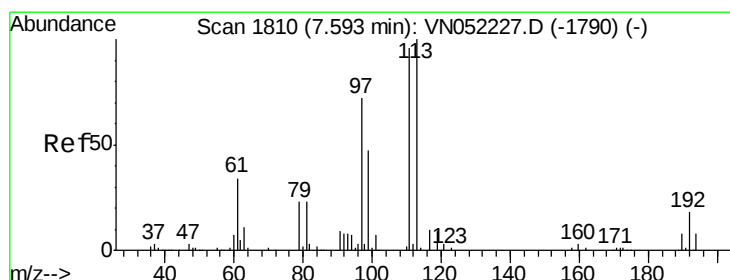
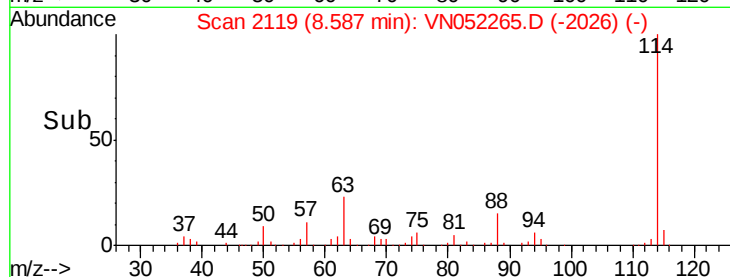
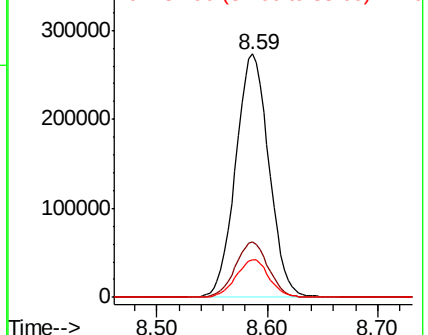
88 15.4 0.0 30.2



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: VN052265.D

Acq: 12 Nov 2018 16:31

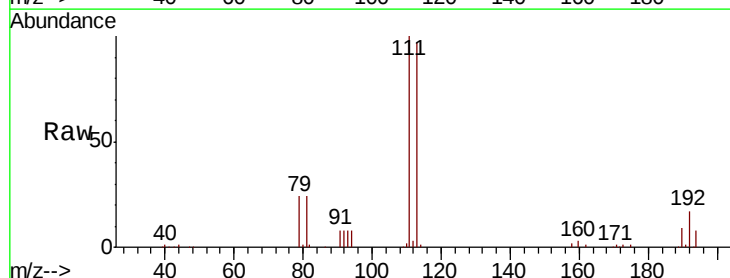
Tgt Ion:113 Resp: 182524

Ion Ratio Lower Upper

113 100

111 102.5 80.2 120.4

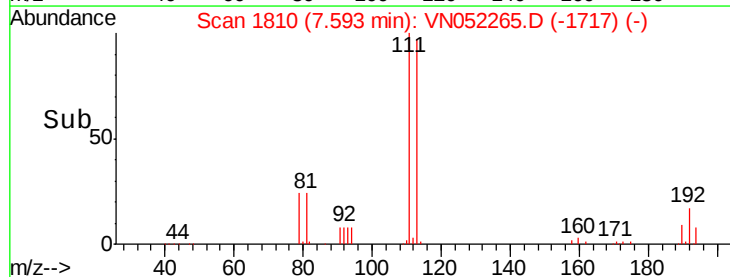
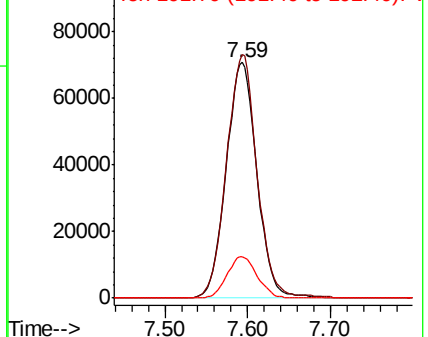
192 17.3 14.1 21.1

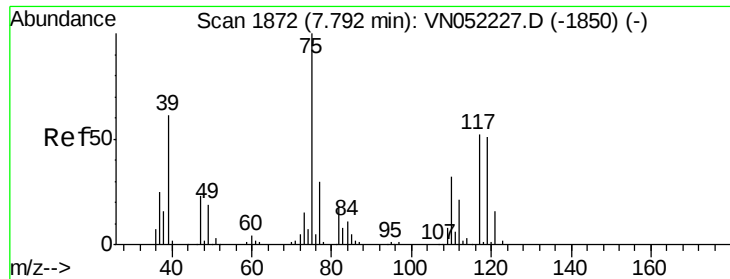


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

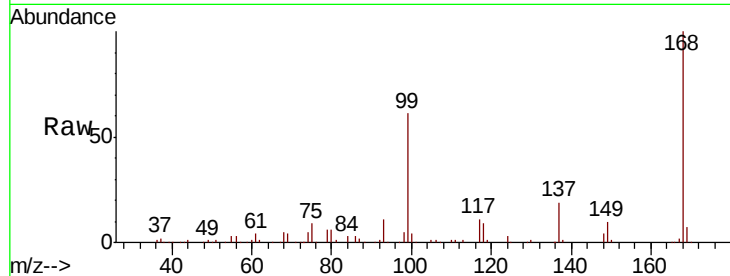




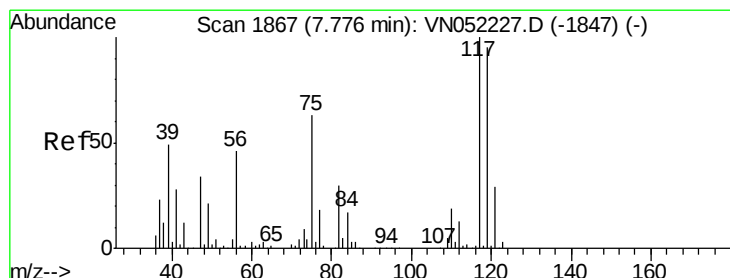
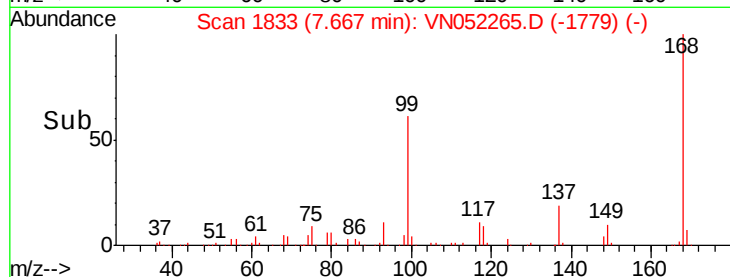
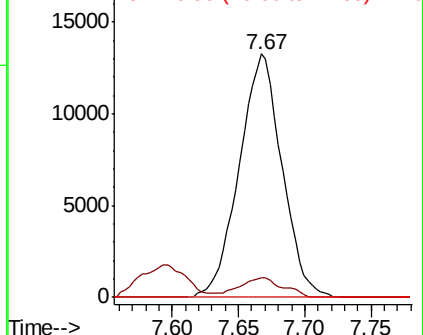
#36
 1,1-Dichloropropene
 Concen: 5.153 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052265.D
 Acq: 12 Nov 2018 16:31

Instrument :
 MSVOA_N
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 PB114678ZHE#09

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	16.4	49.4#
77	0.0	23.9	35.9#

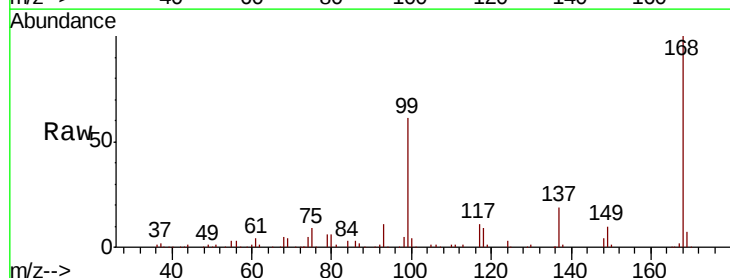


Abundance Ion 74.90 (74.60 to 75.60): VN052227.D (-1850) (-)

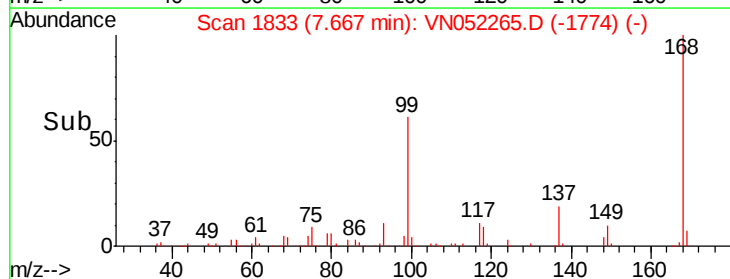
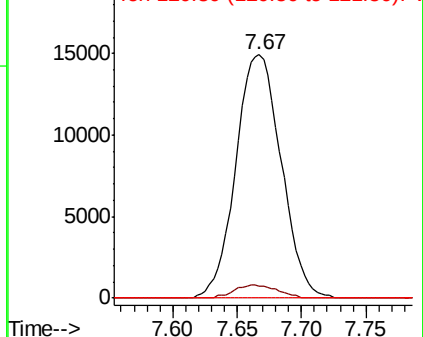


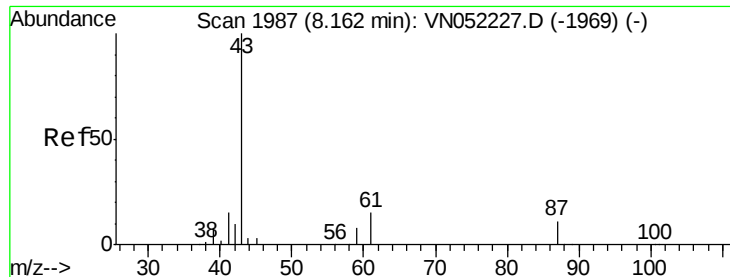
#38
 Carbon Tetrachloride
 Concen: 6.996 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052265.D
 Acq: 12 Nov 2018 16:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	75.8	113.8#
121	0.0	23.4	35.2#



Abundance Ion 116.80 (116.50 to 117.50): VN052227.D (-1847) (-)





#43

Isopropyl Acetate

Concen: 2.900 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052265.D

Acq: 12 Nov 2018 16:31

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#09

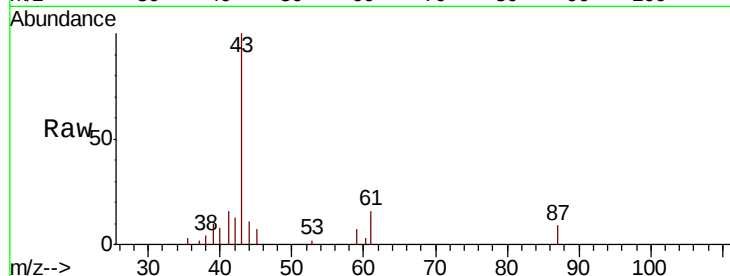
Tot Ion: 43 Resp: 21920

Ion Ratio Lower Upper

43 100

61 16.5 14.2 21.4

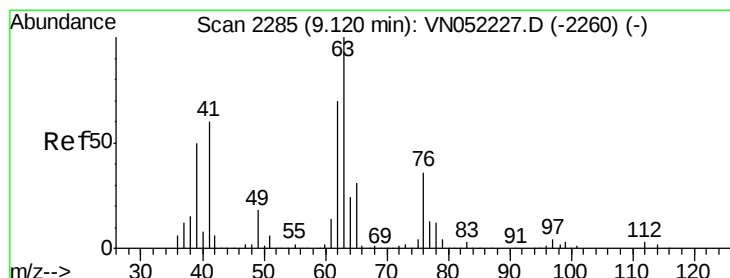
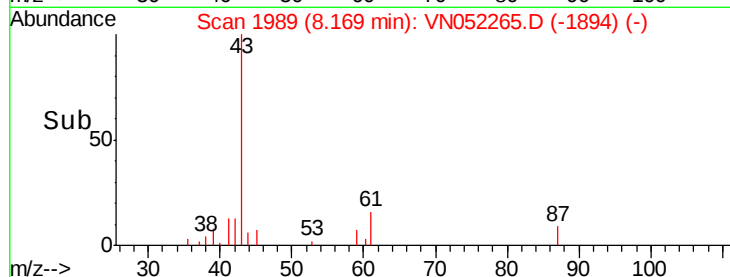
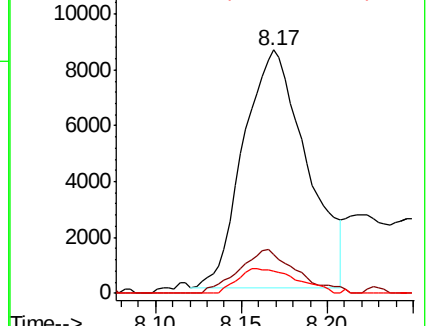
87 9.6 8.4 12.6



Abundance Ion 43.00 (42.70 to 43.70): VN052227.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN052227.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN052227.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.259 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN052265.D

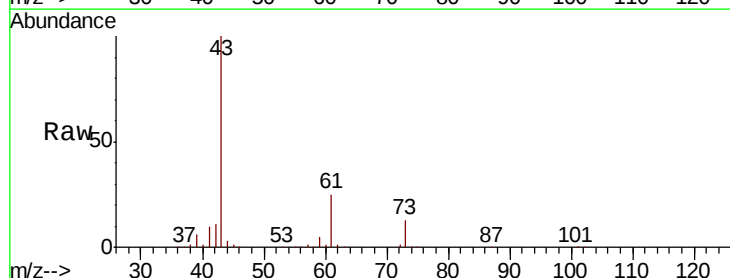
Acq: 12 Nov 2018 16:31

Tgt Ion: 63 Resp: 1193

Ion Ratio Lower Upper

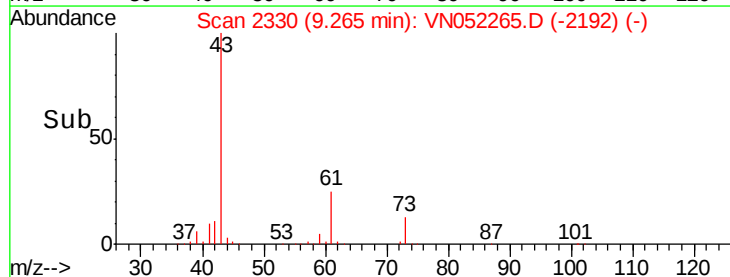
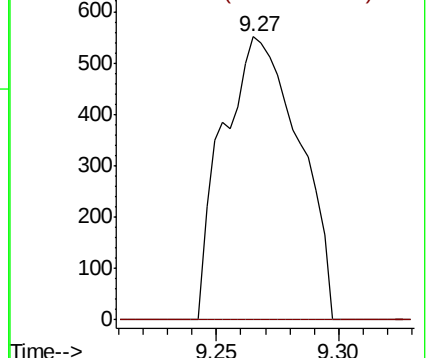
63 100

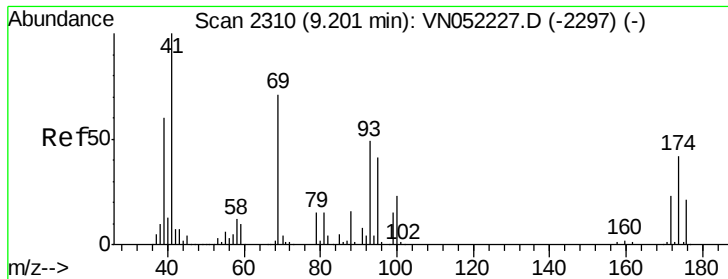
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN052227.D (-2260) (-)

Ion 64.90 (64.60 to 65.60): VN052227.D (-2260) (-)

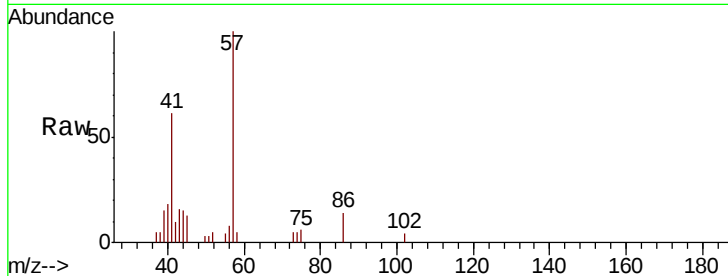




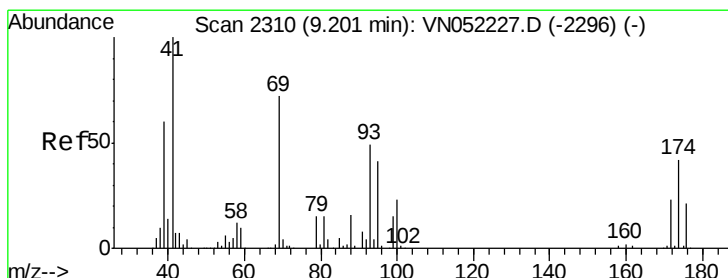
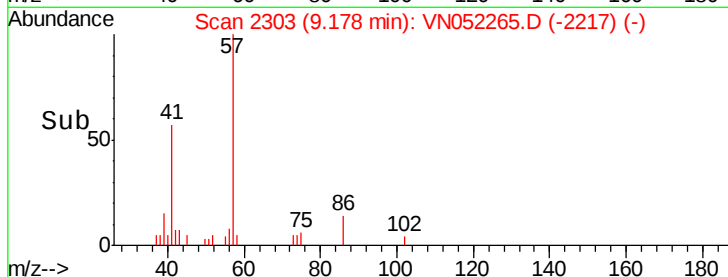
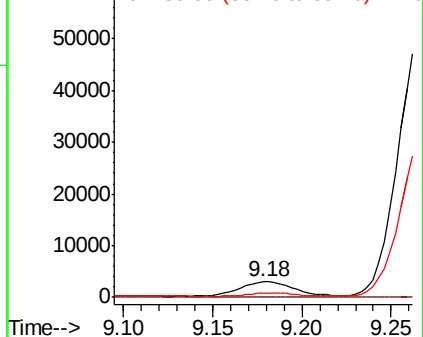
#48
Methyl methacrylate
Concen: 1.471 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052265.D
Acq: 12 Nov 2018 16:31

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#09

Tot Ion: 41 Resp: 5858
Ion Ratio Lower Upper
41 100
69 0.0 58.8 88.2#
39 0.0 50.7 76.1#

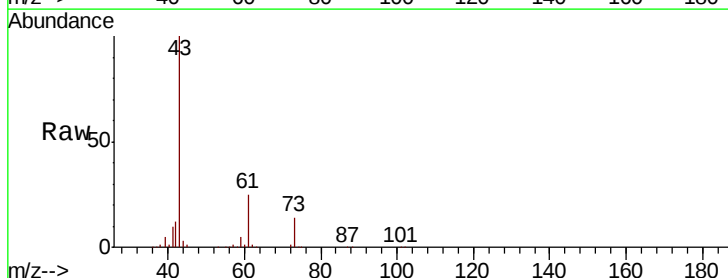


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

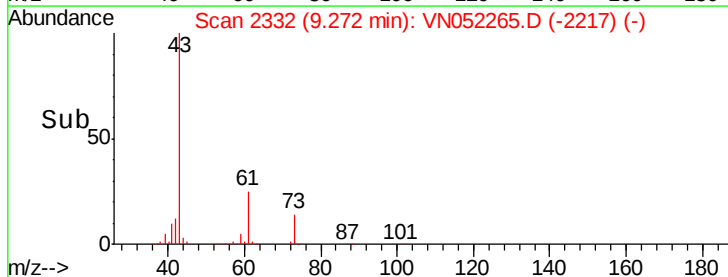
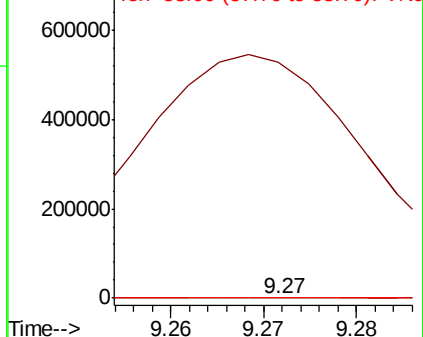


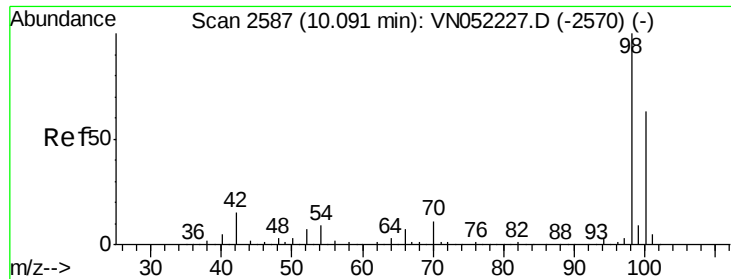
#49
1,4-Dioxane
Concen: 1.968 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN052265.D
Acq: 12 Nov 2018 16:31

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 1629461.9 32.5 48.7#
58 6836.5 58.2 87.4#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 1.968 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052265.D

Acq: 12 Nov 2018 16:31

Instrument :

MSVOA_N

ClientSampleId :

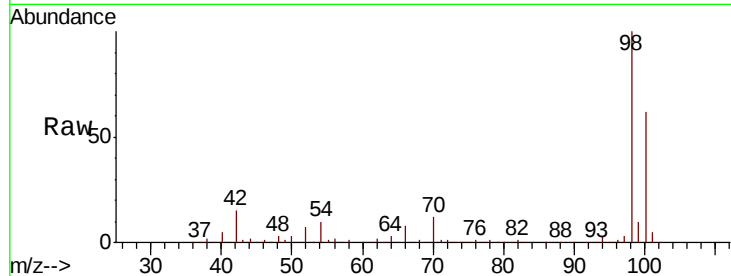
PB114678ZHE#09

Tot Ion: 98 Resp: 717251

Ion Ratio Lower Upper

98 100

100 62.3 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN052227.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052227.D (-2570) (-)

10.09

400000

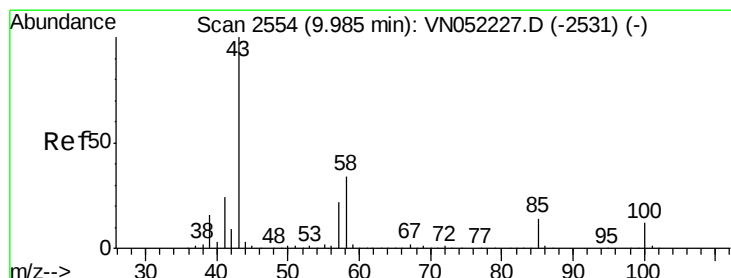
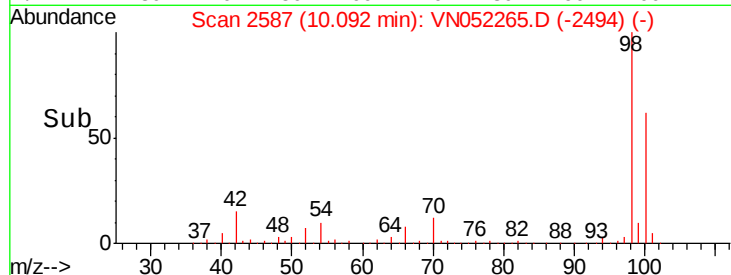
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.546 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN052265.D

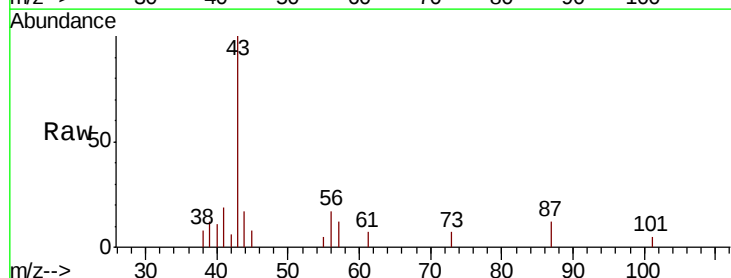
Acq: 12 Nov 2018 16:31

Tgt Ion: 43 Resp: 6452

Ion Ratio Lower Upper

43 100

58 0.0 27.4 41.0#



Abundance Ion 43.00 (42.70 to 43.70): VN052227.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN052227.D (-2531) (-)

10.03

5000

4000

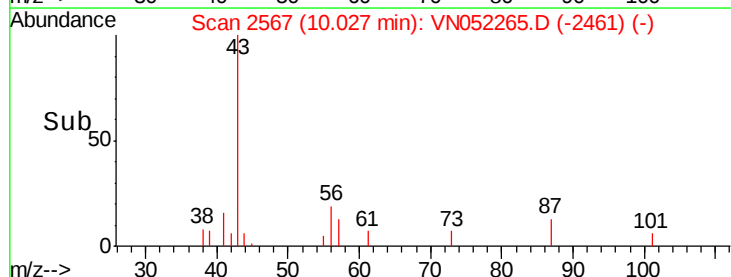
3000

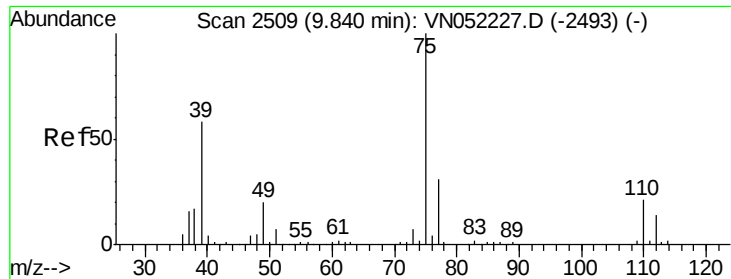
2000

1000

0

Time-->



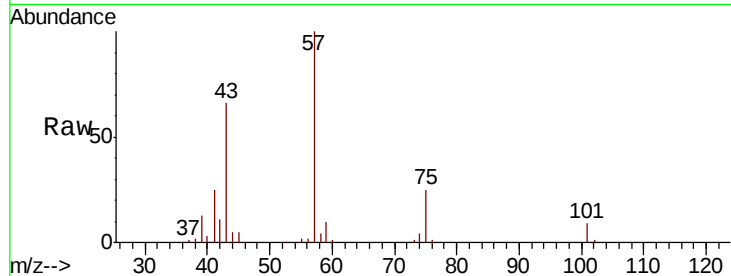


#54

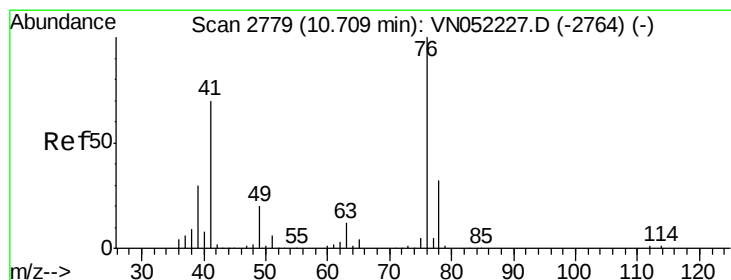
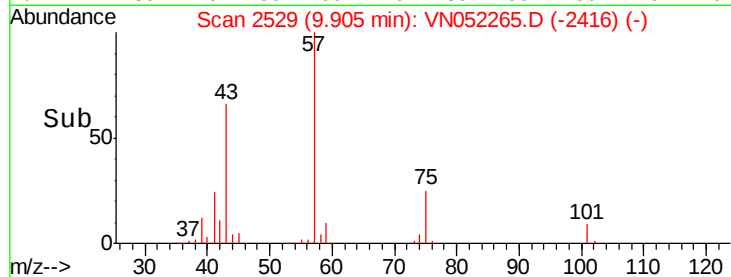
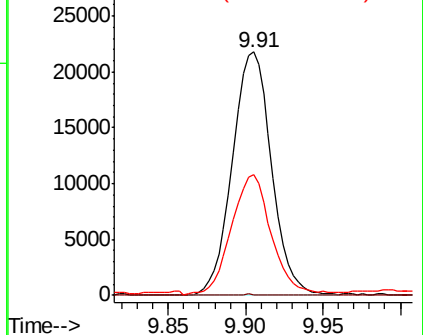
cis-1,3-Dichloropropene
 Concen: 6.003 ug/l
 RT: 9.91 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN052265.D
 Acq: 12 Nov 2018 16:31

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#09

Tot Ion: 75 Resp: 38376
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 48.5 46.6 70.0



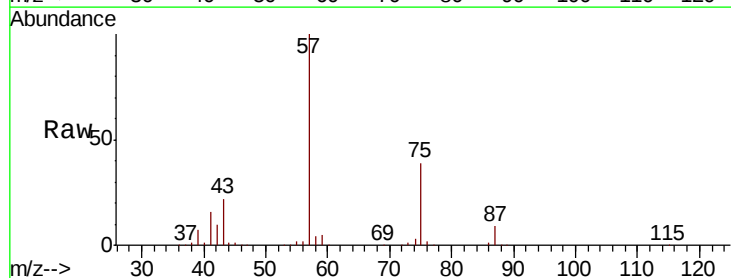
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



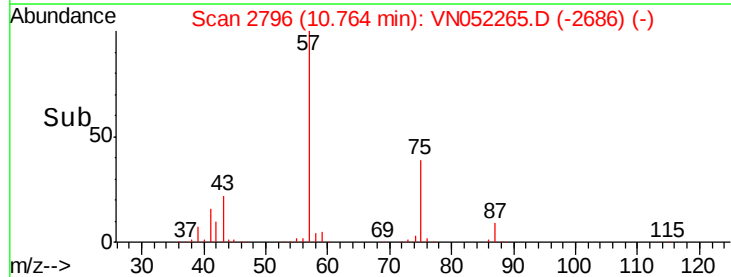
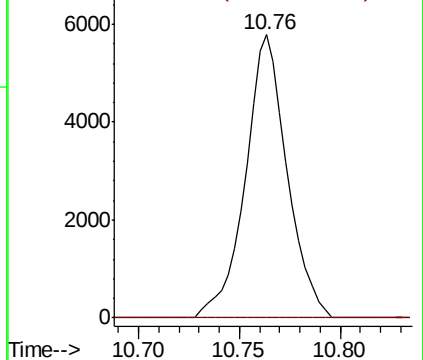
#57

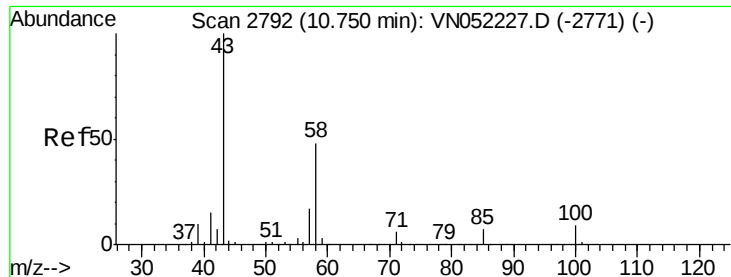
1,3-Dichloropropane
 Concen: 1.297 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN052265.D
 Acq: 12 Nov 2018 16:31

Tgt Ion: 76 Resp: 8358
 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

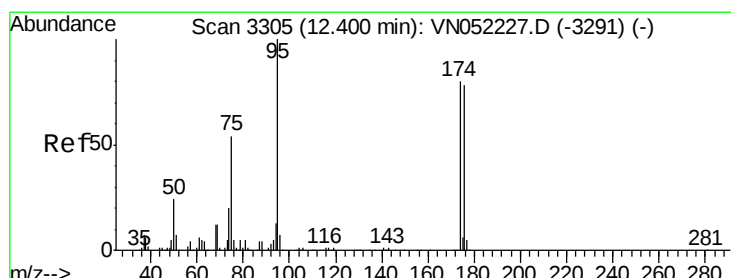
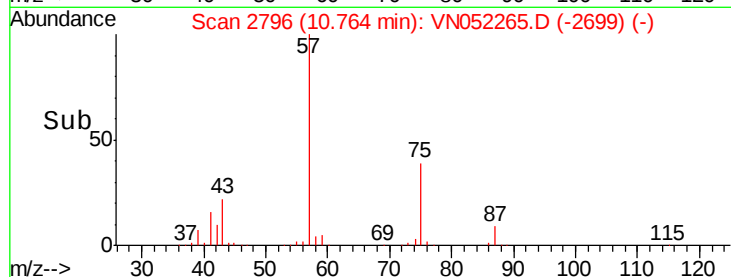
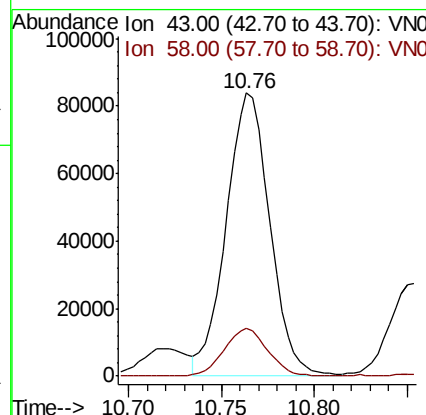
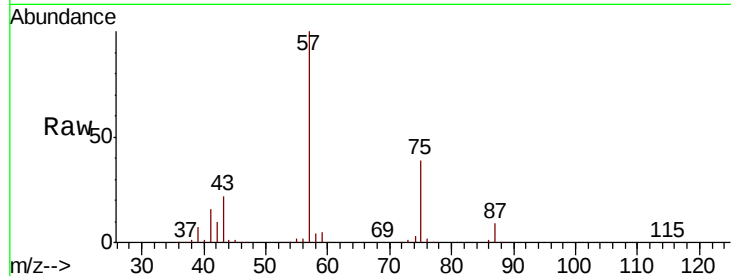




#59
2-Hexanone
Concen: 46.316 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052265.D
Acq: 12 Nov 2018 16:31

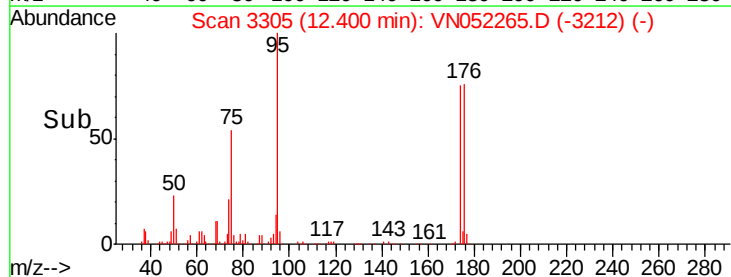
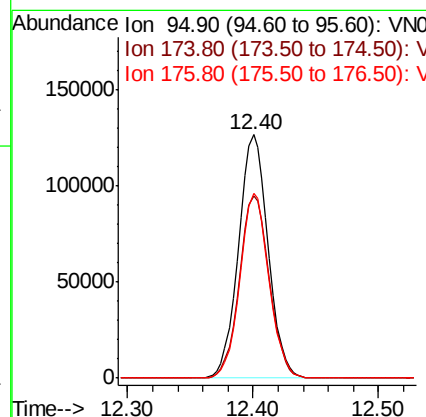
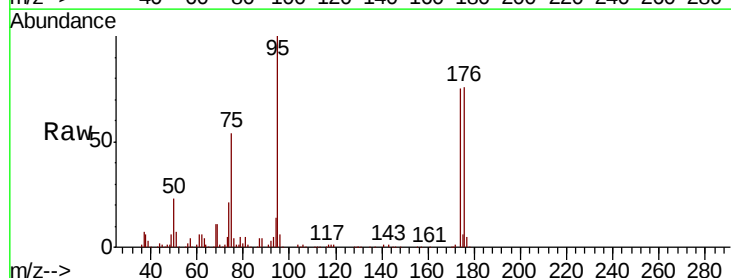
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#09

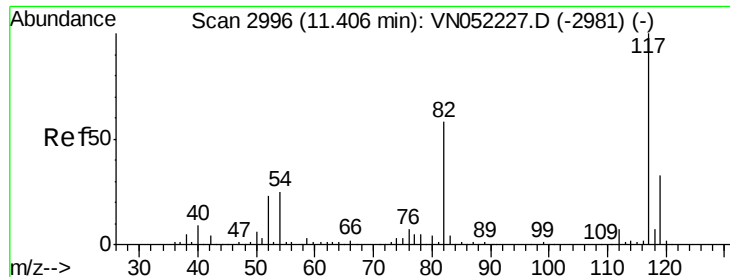
Tot Ion: 43 Resp: 135718
Ion Ratio Lower Upper
43 100
58 17.2 24.1 72.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052265.D
Acq: 12 Nov 2018 16:31

Tgt Ion: 95 Resp: 206817
Ion Ratio Lower Upper
95 100
174 75.8 0.0 159.4
176 74.4 0.0 157.8

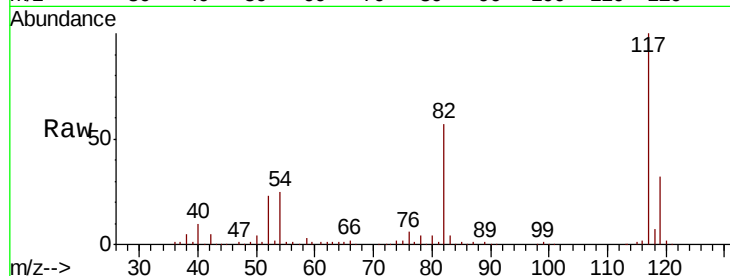




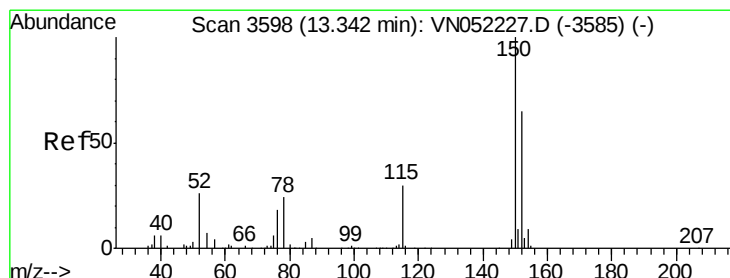
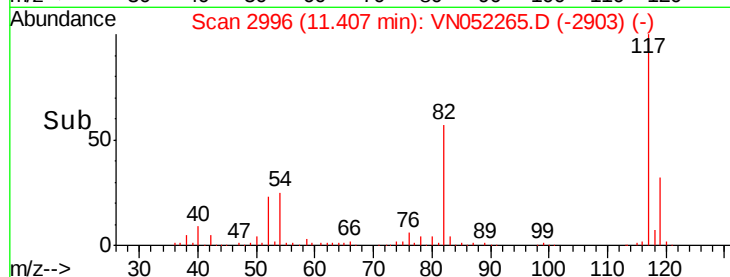
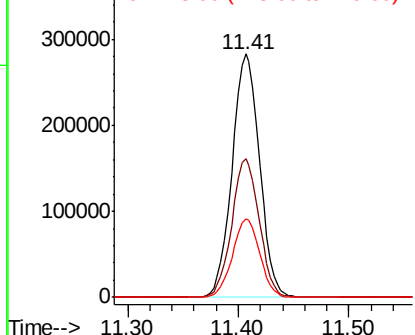
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052265.D
Acq: 12 Nov 2018 16:31

Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#09

Tot Ion:117 Resp: 487252
Ion Ratio Lower Upper
117 100
82 57.0 46.2 69.2
119 32.4 26.2 39.4

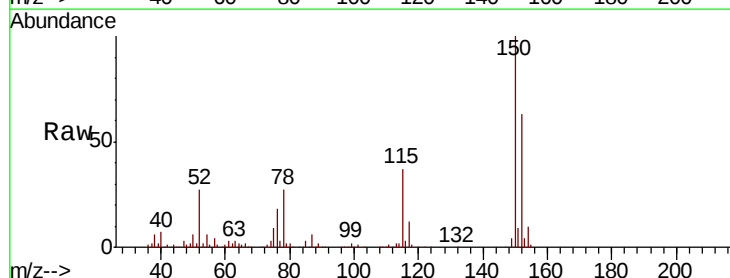


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

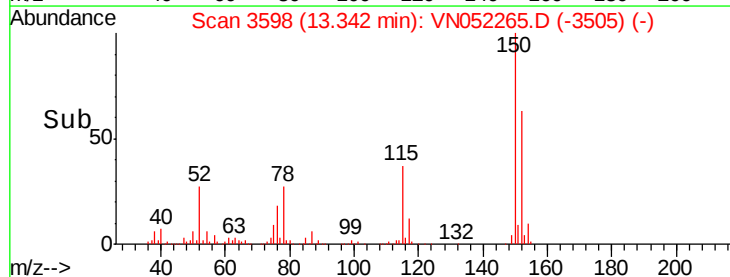
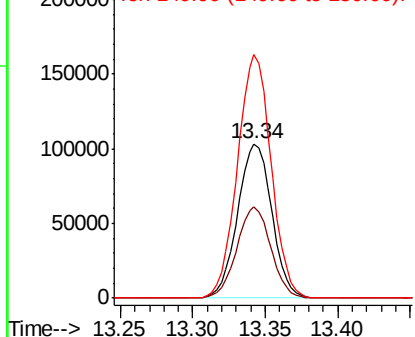


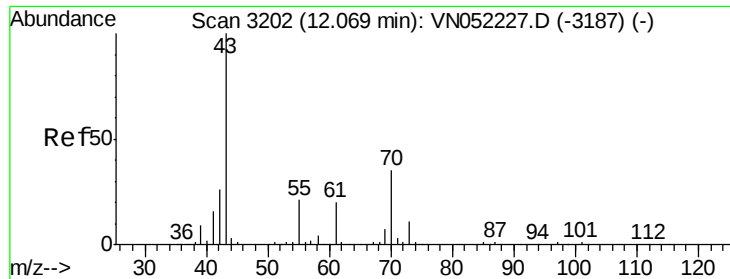
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN052265.D
Acq: 12 Nov 2018 16:31

Tgt Ion:152 Resp: 168948
Ion Ratio Lower Upper
152 100
115 58.7 29.8 89.5
150 155.9 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-amvl acetate

Concen: 3.210 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052265.D

Acq: 12 Nov 2018 16:31

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#09

Tot Ion: 43 Resp: 16093

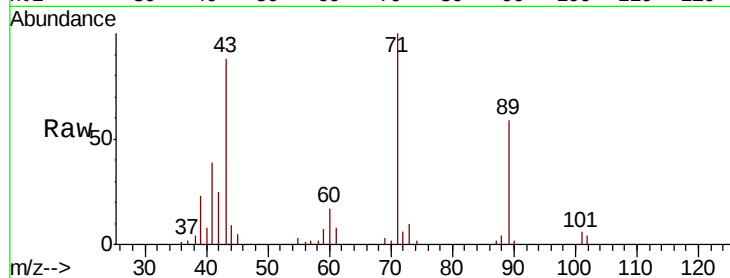
Ion Ratio Lower Upper

43 100

70 2.3 28.2 42.2#

55 2.5 17.4 26.2#

61 9.4 16.3 24.5#

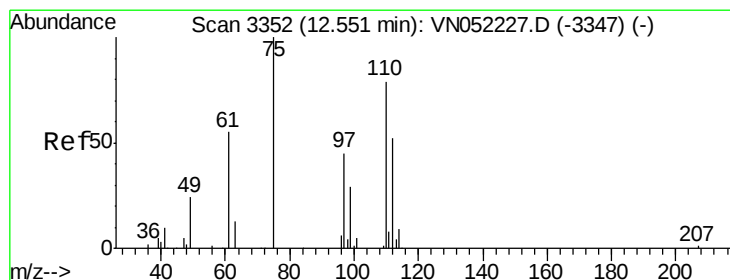
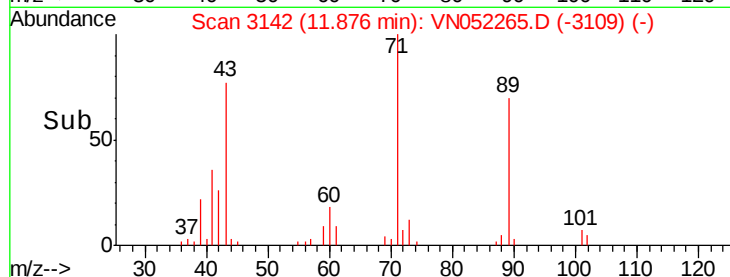
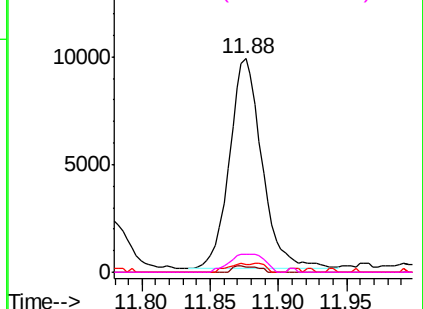


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 37.215 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052265.D

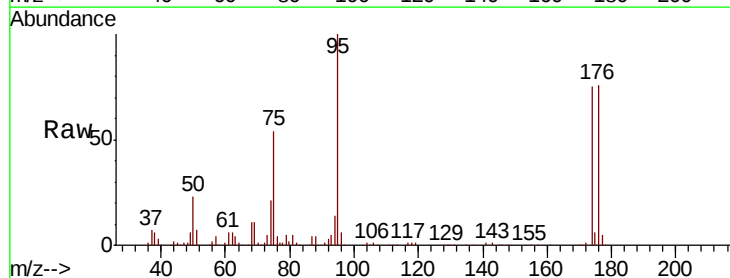
Acq: 12 Nov 2018 16:31

Tgt Ion: 75 Resp: 111241

Ion Ratio Lower Upper

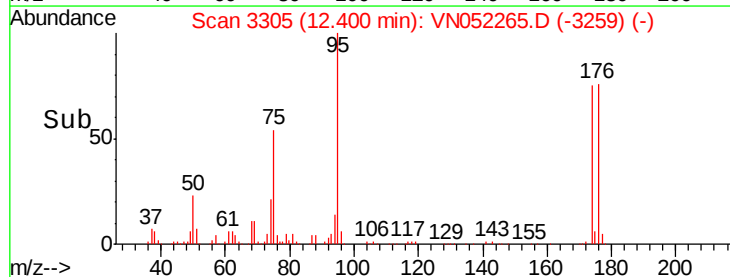
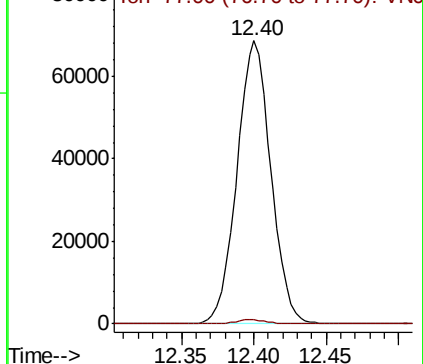
75 100

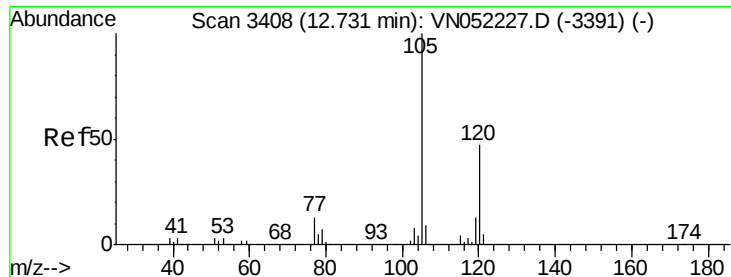
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

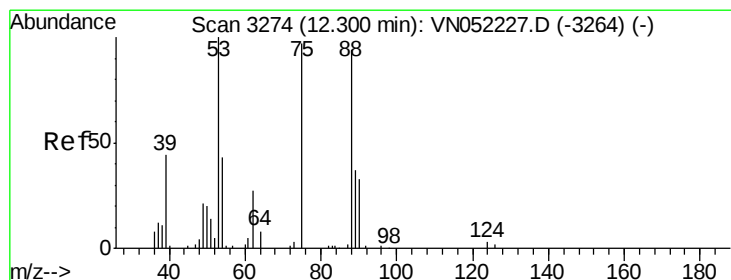
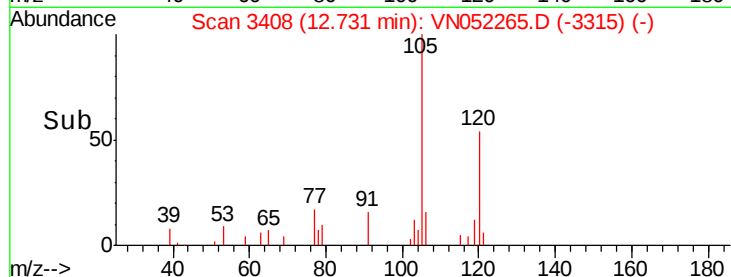
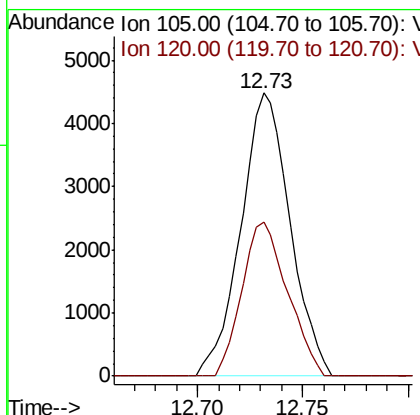
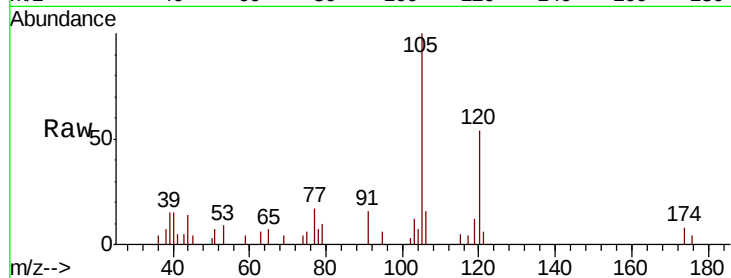




#80
 1,3,5-Trimethylbenzene
 Concen: 0.660 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN052265.D
 Acq: 12 Nov 2018 16:31

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#09

Tot Ion:105 Resp: 7251
 Ion Ratio Lower Upper
 105 100
 120 50.5 23.9 71.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 127.032 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052265.D
 Acq: 12 Nov 2018 16:31

Tgt Ion: 75 Resp: 111241
 Ion Ratio Lower Upper
 75 100
 53 0.0 84.0 126.0#
 89 0.0 33.7 50.5#

