

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111218\
 Data File : VN052273.D
 Acq On : 12 Nov 2018 20:05
 Operator : MD\SY
 Sample : PB114678ZHE#17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#17

Quant Time: Nov 13 00:17:35 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	327510	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	550259	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	473631	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	169247	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	219184	48.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.86%	
35) Dibromofluoromethane	7.59	113	174049	48.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.66%	
50) Toluene-d8	10.09	98	695852	49.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.76%	
62) 4-Bromofluorobenzene	12.40	95	201673	44.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.42%	

Target Compounds

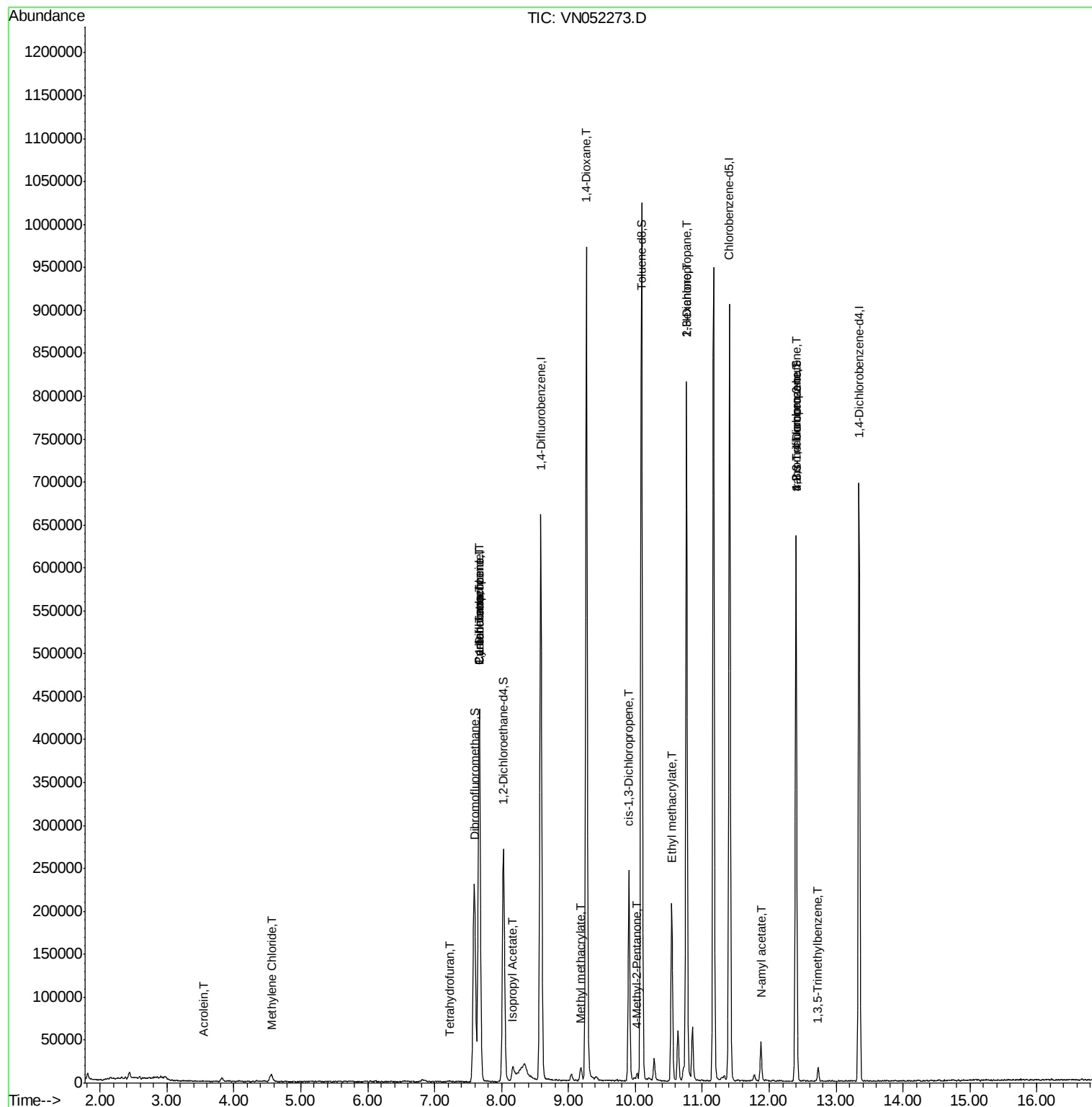
						Qvalue
13) Acrolein	3.55	56	59	34.242	ug/l #	12
16) Acetone	3.82	43	6331	Below Cal	#	87
20) Methylene Chloride	4.56	84	5428	1.329	ug/l #	77
29) Tetrahydrofuran	7.22	42	587	0.472	ug/l #	40
31) Cyclohexane	7.67	56	9041	0.624	ug/l #	27
36) 1,1-Dichloropropene	7.66	75	29290	5.274	ug/l #	52
38) Carbon Tetrachloride	7.67	117	34185	6.792	ug/l #	16
43) Isopropyl Acetate	8.17	43	23194	3.185	ug/l #	92
48) Methyl methacrylate	9.18	41	6226	1.623	ug/l #	15
49) 1,4-Dioxane	9.27	88	29	0.940	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	6422	1.597	ug/l #	40
54) cis-1,3-Dichloropropene	9.90	75	37682	6.118	ug/l #	71
56) Ethyl methacrylate	10.53	69	1038	0.222	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7835	1.262	ug/l #	43
59) 2-Hexanone	10.76	43	128605	45.559	ug/l #	55
74) N-amyl acetate	11.87	43	15831	3.152	ug/l #	58
76) 1,2,3-Trichloropropane	12.40	75	113131	37.781	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7120	0.647	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	113131	128.962	ug/l #	8

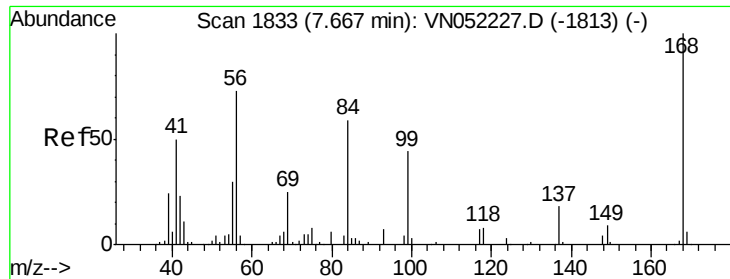
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN052273.D

Acq: 12 Nov 2018 20:05

Instrument :

MSVOA_N

ClientSampleId :

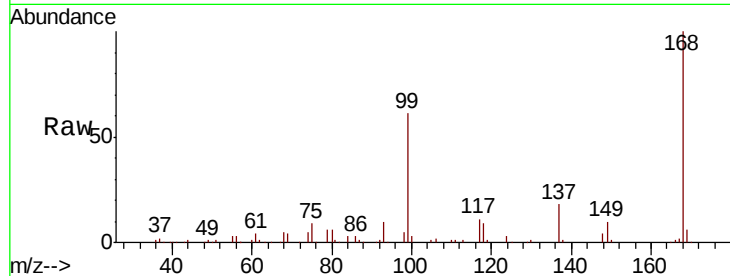
PB114678ZHE#17

Tot Ion:168 Resp: 327510

Ion Ratio Lower Upper

168 100

99 60.7 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

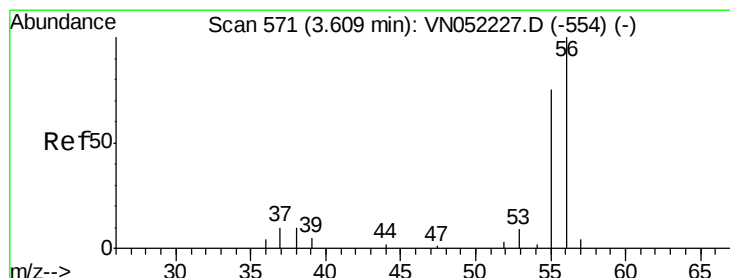
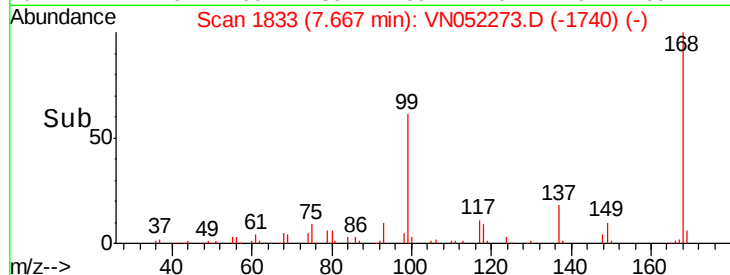
100000

50000

0

7.60 7.70 7.80

Time-->



#13

Acrolein

Concen: 34.242 ug/l

RT: 3.55 min Scan# 553

Delta R.T. -0.06 min

Lab File: VN052273.D

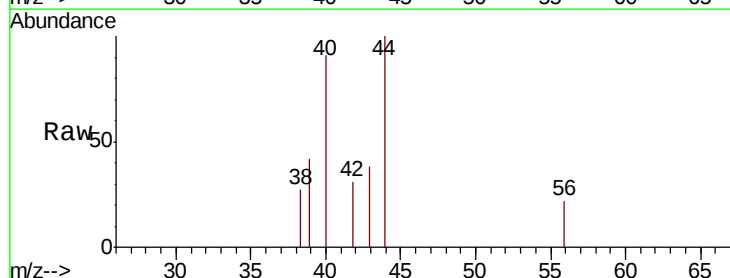
Acq: 12 Nov 2018 20:05

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): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.55

150

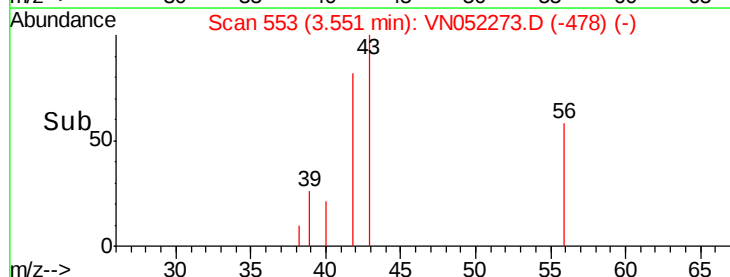
100

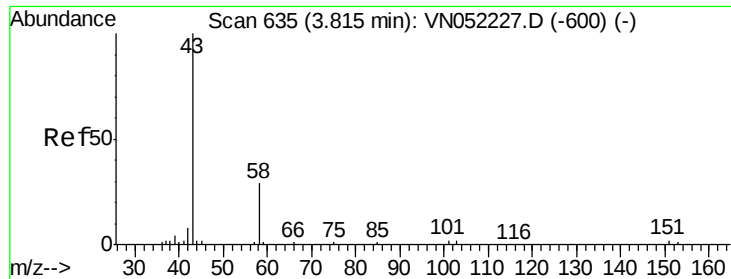
50

0

3.54 3.55 3.56

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

Instrument :

MSVOA_N

ClientSampleId :

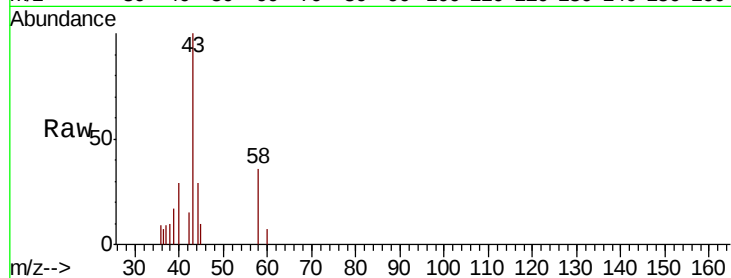
PB114678ZHE#17

Tot Ion: 43 Resp: 6331

Ion Ratio Lower Upper

43 100

58 35.7 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

2500

2000

1500

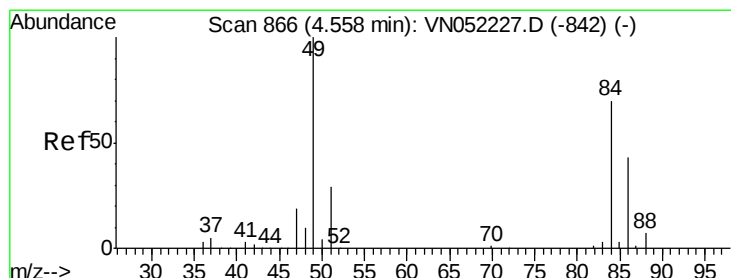
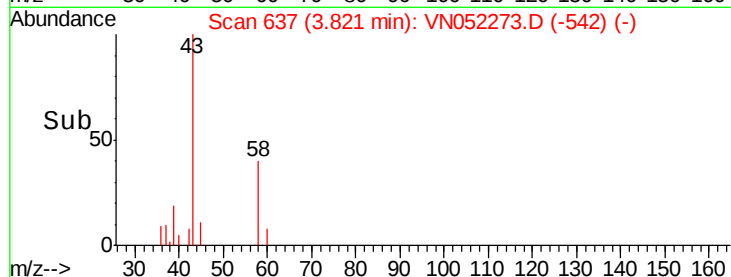
1000

500

0

3.75 3.80 3.85 3.90

Time-->



#20

Methylene Chloride

Concen: 1.329 ug/l

RT: 4.56 min Scan# 867

Delta R.T. 0.00 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

Tgt Ion: 84 Resp: 5428

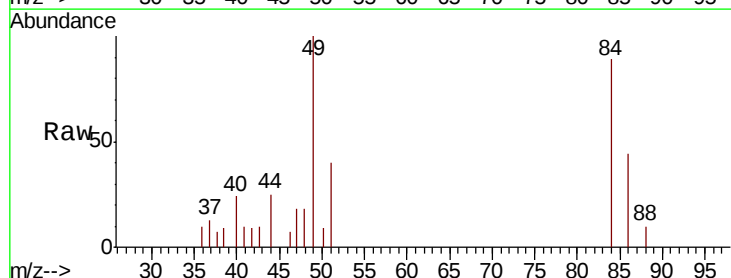
Ion Ratio Lower Upper

84 100

49 105.4 114.8 172.2#

51 45.2 33.1 49.7

86 49.9 49.7 74.5



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

4.56

3000

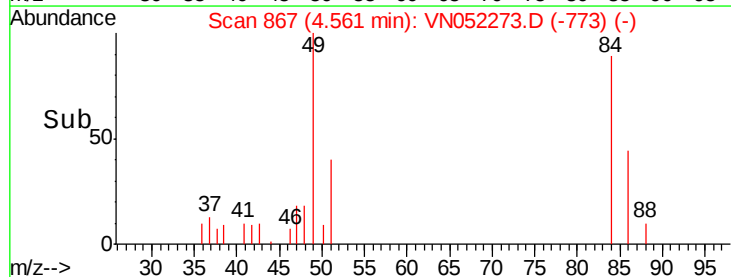
2000

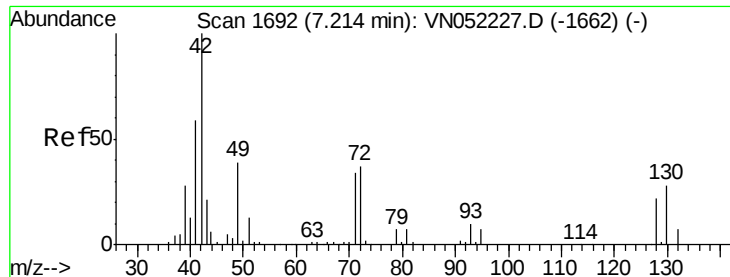
1000

0

4.50 4.55 4.60 4.65

Time-->





#29

Tetrahydrofuran

Concen: 0.472 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#17

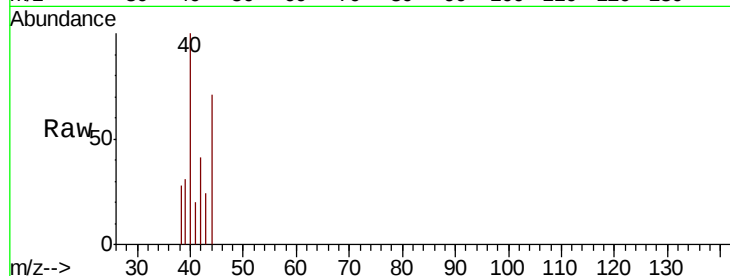
Tot Ion: 42 Resp: 587

Ion Ratio Lower Upper

42 100

72 0.0 28.6 43.0#

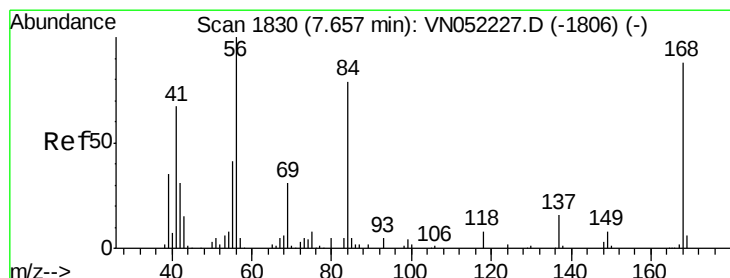
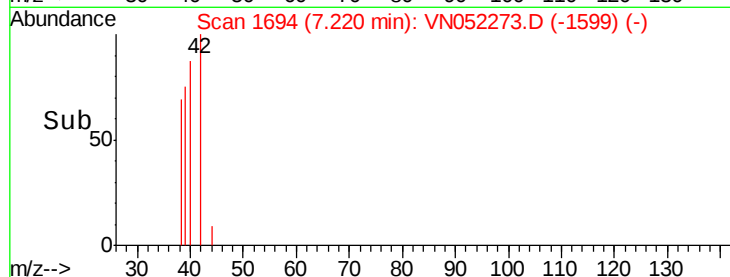
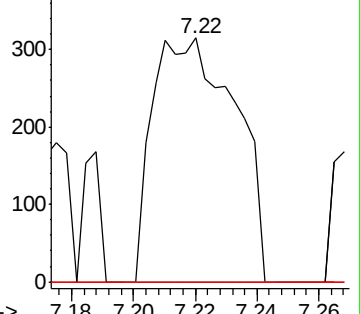
71 0.0 27.1 40.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.624 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

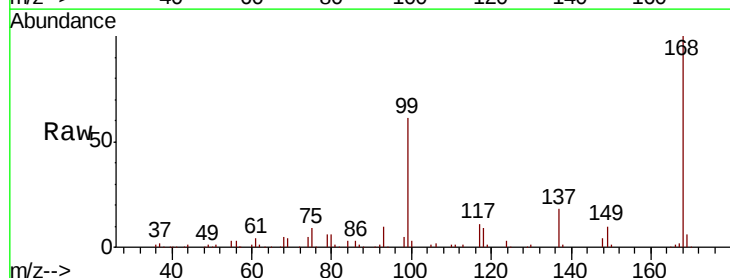
Tgt Ion: 56 Resp: 9041

Ion Ratio Lower Upper

56 100

69 141.2 24.8 37.2#

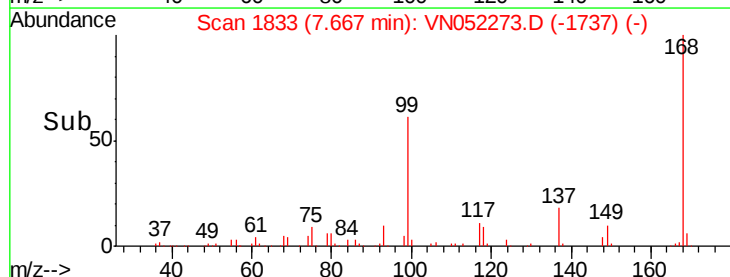
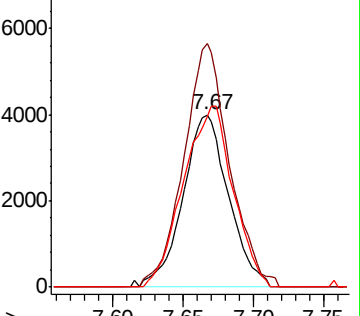
84 98.9 63.1 94.7#

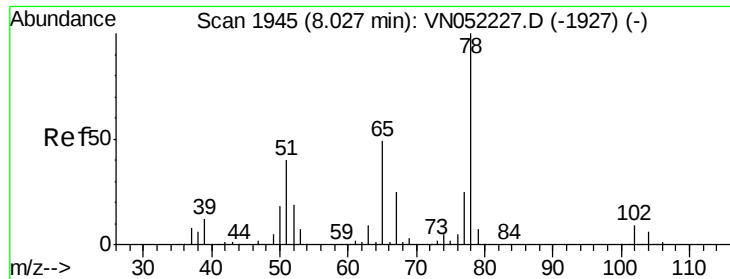


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

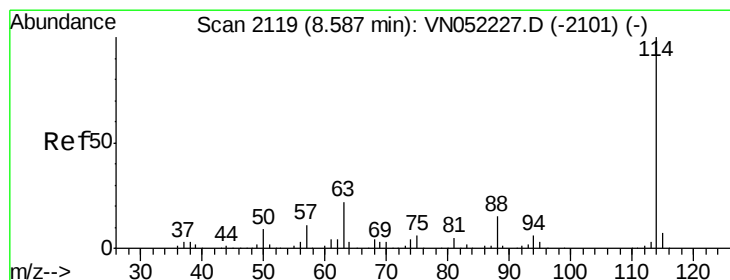
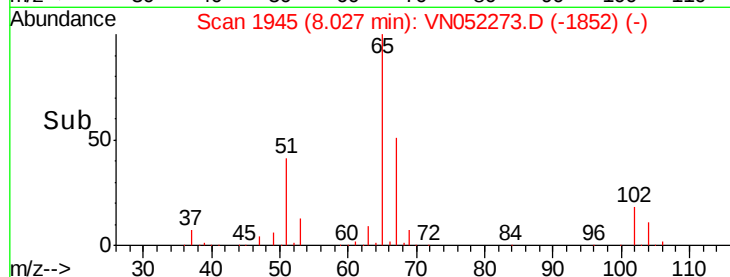
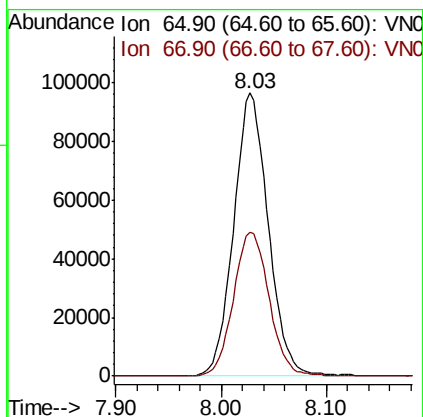
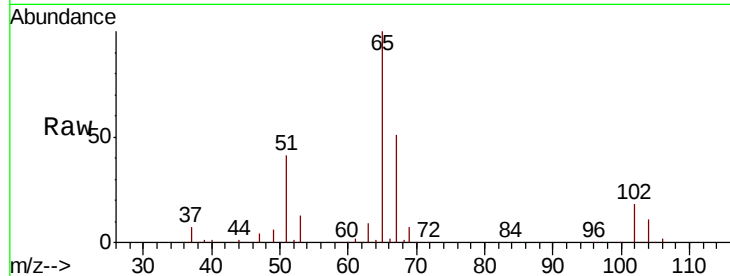




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052273.D
 Acq: 12 Nov 2018 20:05

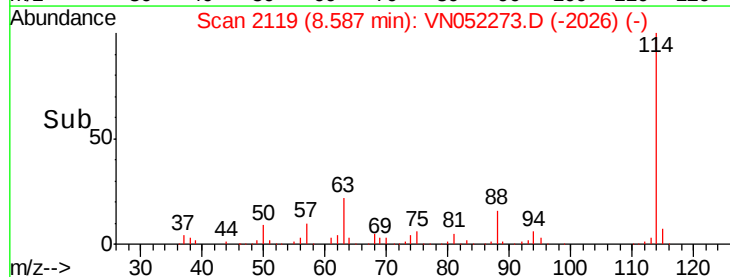
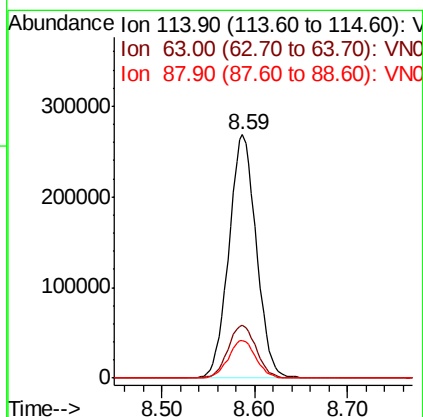
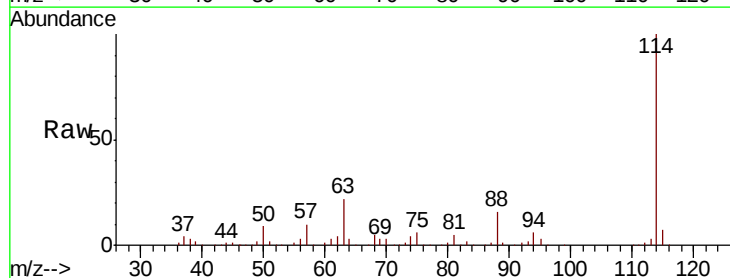
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#17

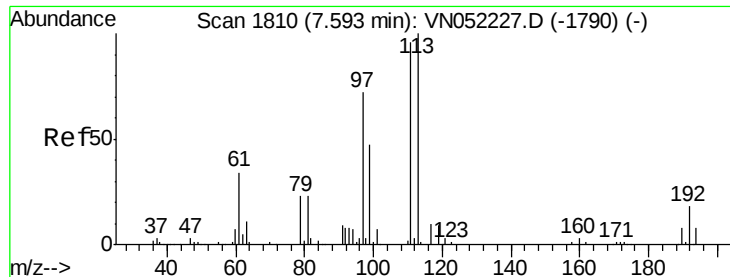
Tot Ion: 65 Resp: 219184
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052273.D
 Acq: 12 Nov 2018 20:05

Tgt Ion: 114 Resp: 550259
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 43.4
 88 15.6 0.0 30.2

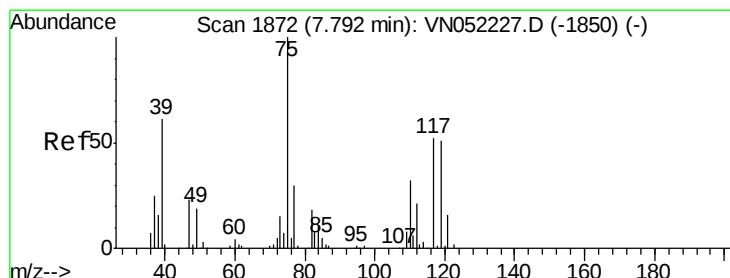
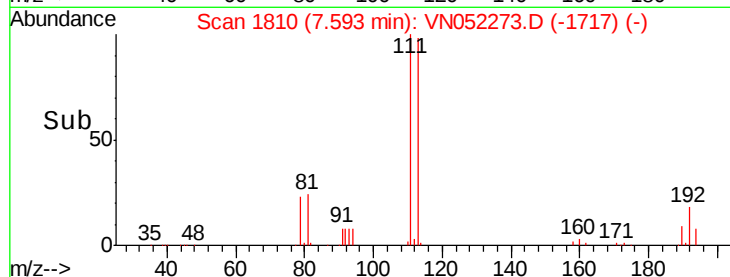
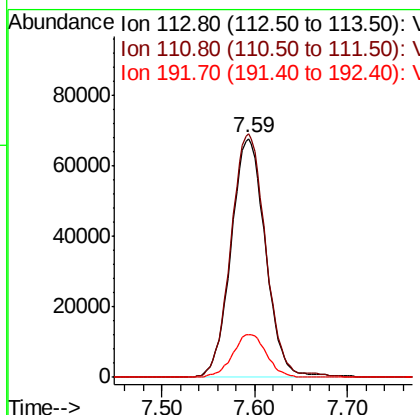
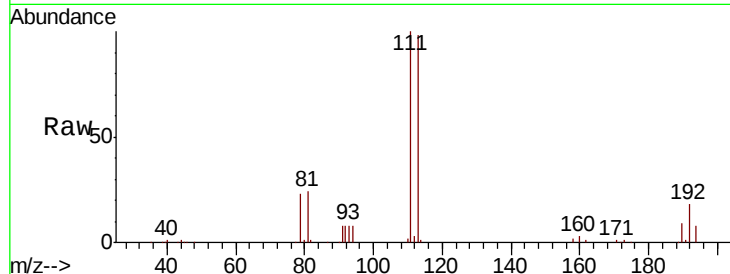




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052273.D
 Acq: 12 Nov 2018 20:05

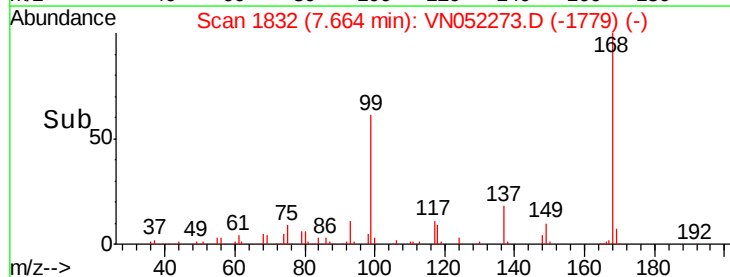
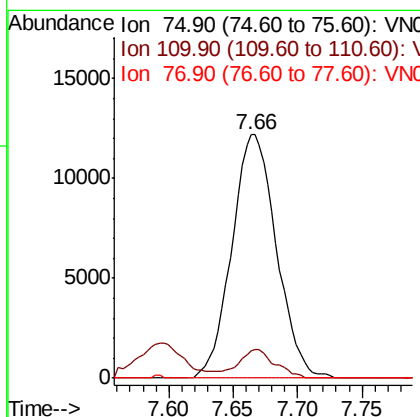
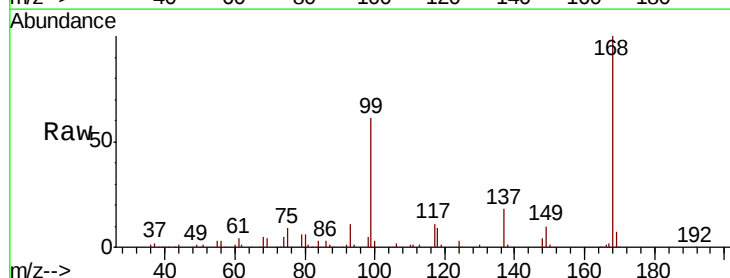
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#17

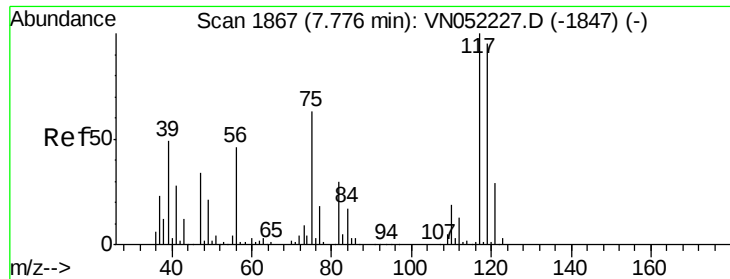
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	80.2	120.4
192	17.6	14.1	21.1



#36
 1,1-Dichloropropene
 Concen: 5.274 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN052273.D
 Acq: 12 Nov 2018 20:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	16.4	49.4#
77	0.0	23.9	35.9#





#38

Carbon Tetrachloride

Concen: 6.792 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#17

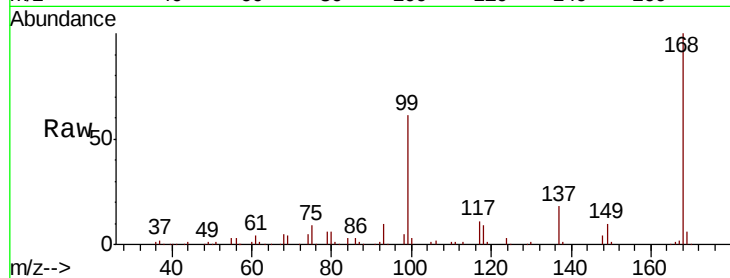
Tot Ion:117 Resp: 34185

Ion Ratio Lower Upper

117 100

119 4.8 75.8 113.8#

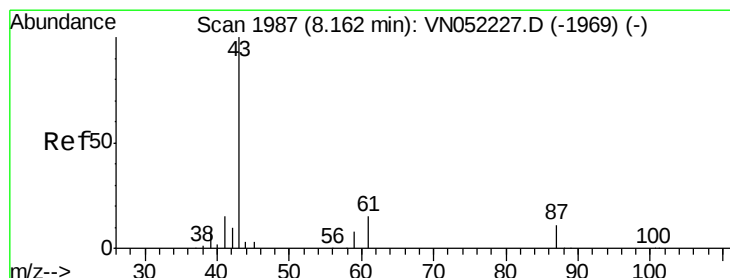
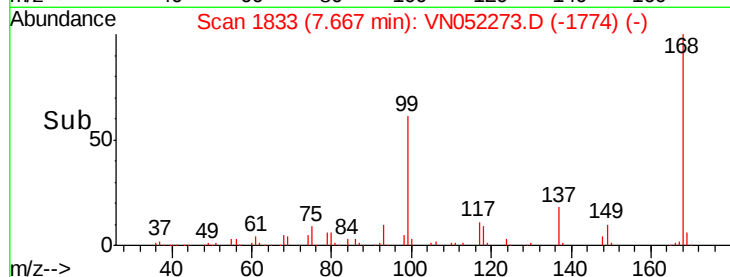
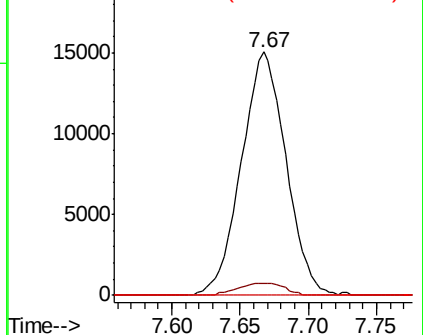
121 0.0 23.4 35.2#



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: 3.185 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

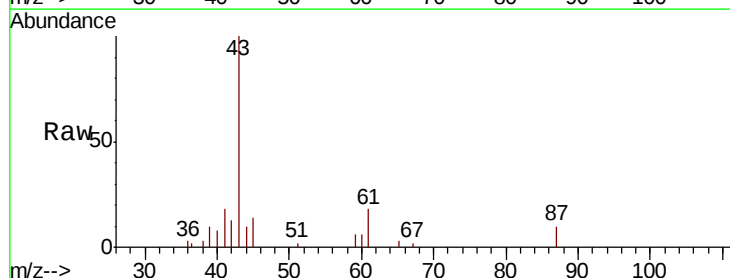
Tgt Ion: 43 Resp: 23194

Ion Ratio Lower Upper

43 100

61 13.9 14.2 21.4#

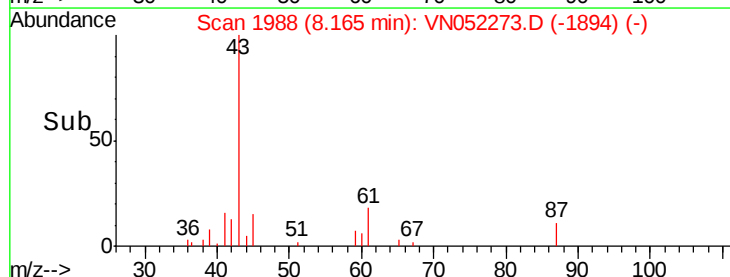
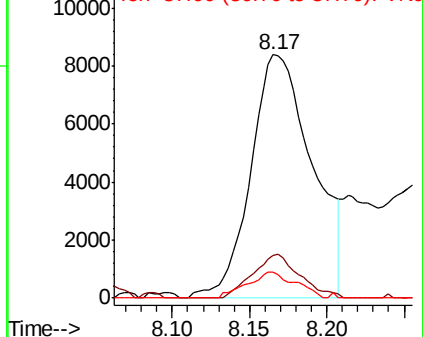
87 8.4 8.4 12.6#

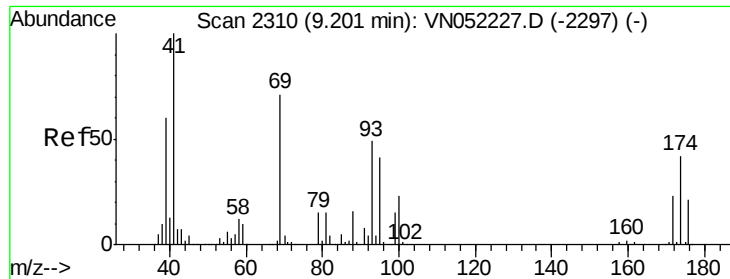


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

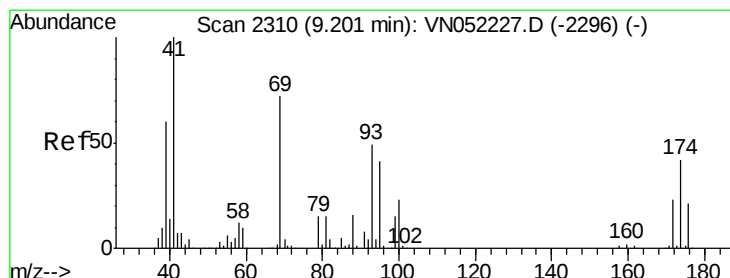
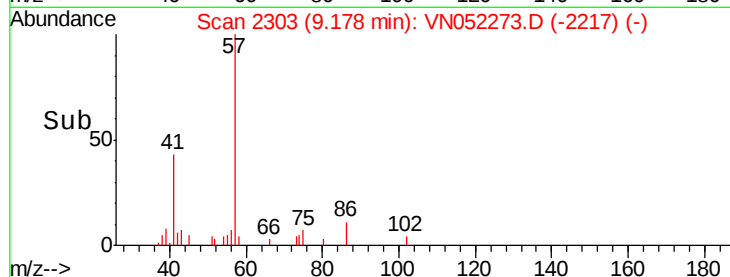
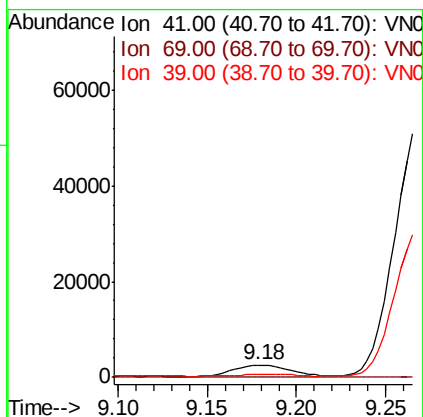
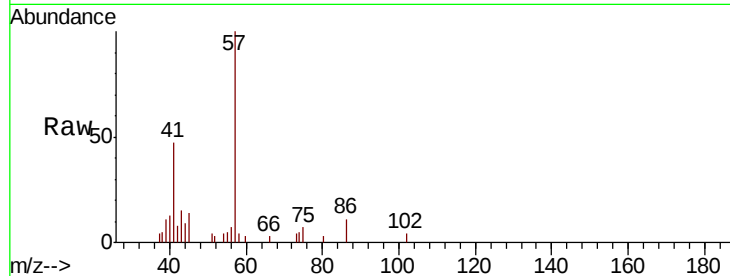




#48
Methyl methacrylate
Concen: 1.623 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052273.D
Acq: 12 Nov 2018 20:05

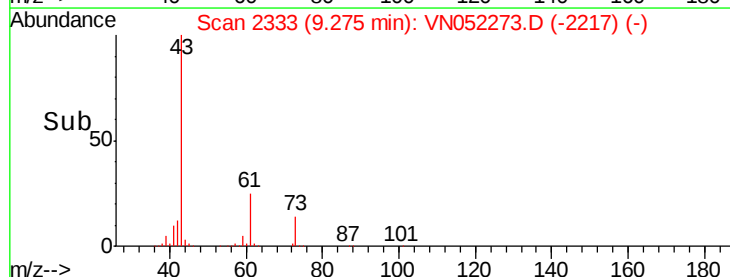
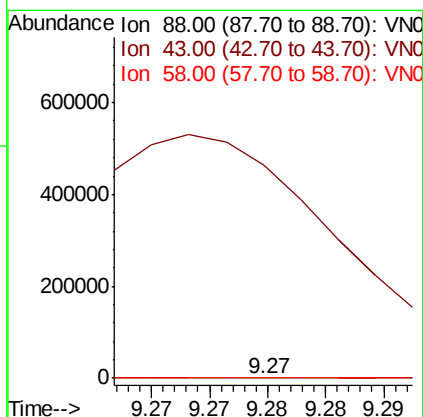
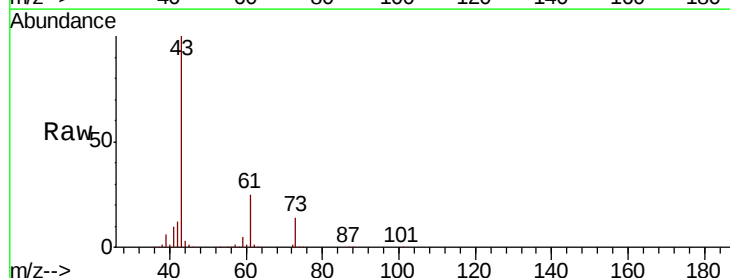
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#17

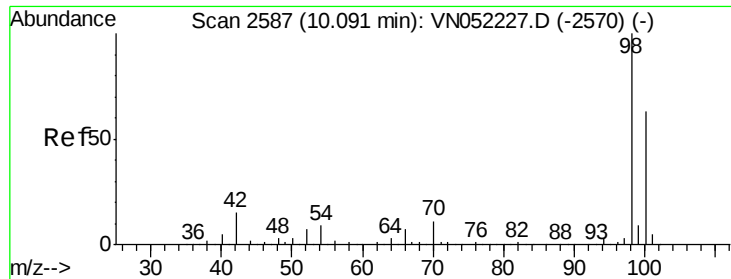
Tot Ion: 41 Resp: 6226
Ion Ratio Lower Upper
41 100
69 0.0 58.8 88.2#
39 0.0 50.7 76.1#



#49
1,4-Dioxane
Concen: 0.940 ug/l
RT: 9.27 min Scan# 2333
Delta R.T. 0.07 min
Lab File: VN052273.D
Acq: 12 Nov 2018 20:05

Tgt Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 3361717.2 32.5 48.7#
58 14362.1 58.2 87.4#





#50

Toluene-d8

Concen: 0.940 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

Instrument :

MSVOA_N

ClientSampleId :

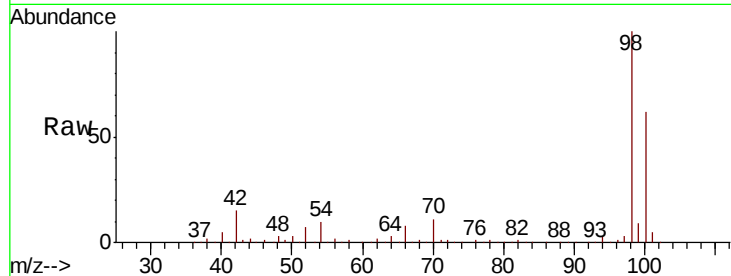
PB114678ZHE#17

Tot Ion: 98 Resp: 695852

Ion Ratio Lower Upper

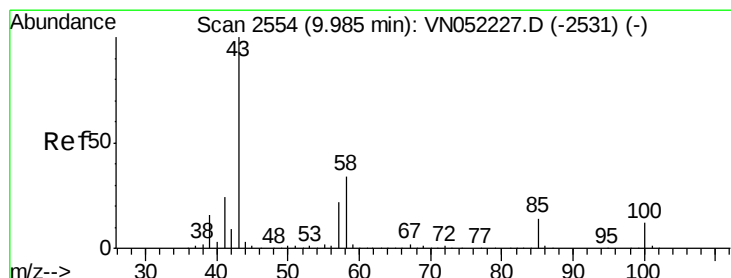
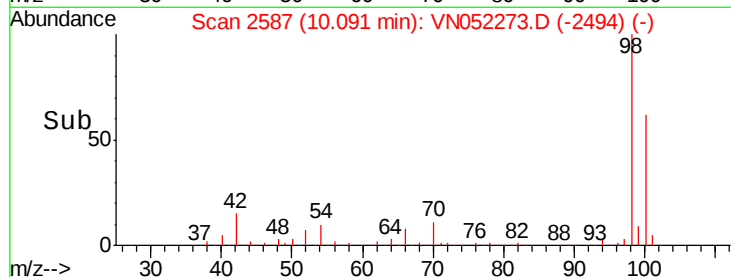
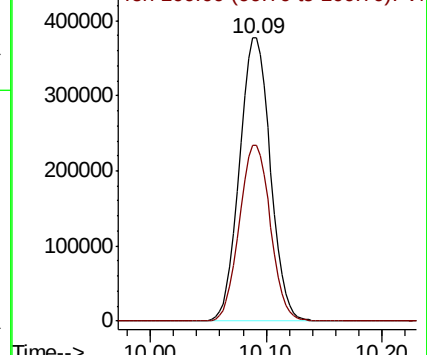
98 100

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: 1.597 ug/l

RT: 10.02 min Scan# 2565

Delta R.T. 0.04 min

Lab File: VN052273.D

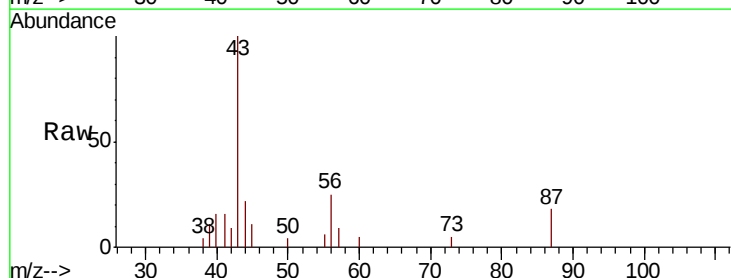
Acq: 12 Nov 2018 20:05

Tgt Ion: 43 Resp: 6422

Ion Ratio Lower Upper

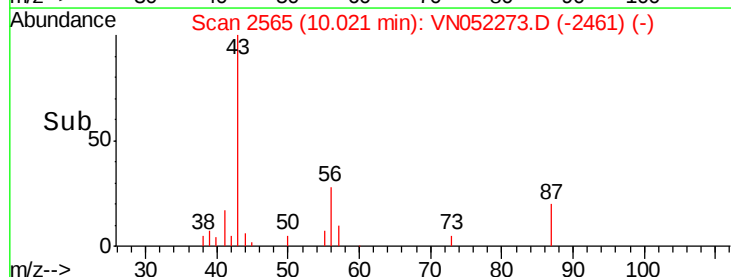
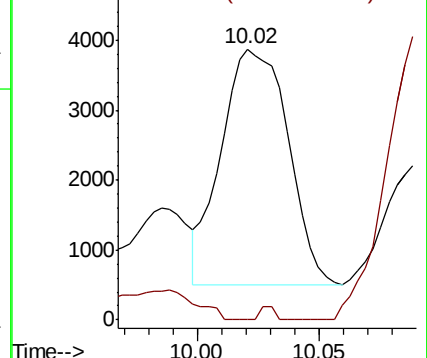
43 100

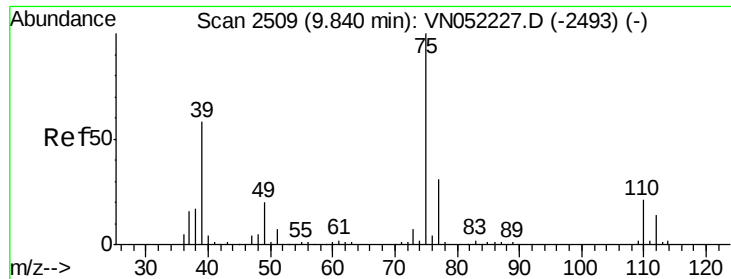
58 0.0 27.4 41.0#



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: 6.118 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#17

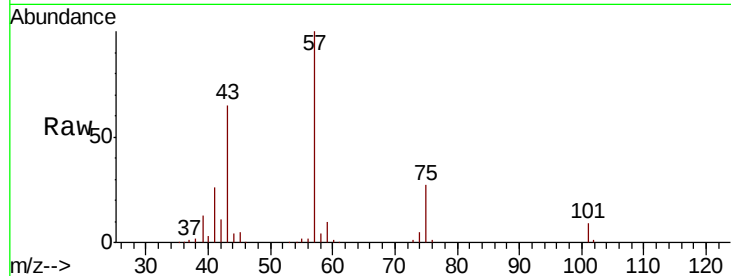
Tot Ion: 75 Resp: 37682

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

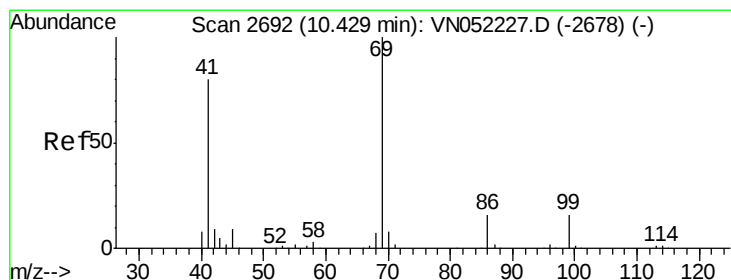
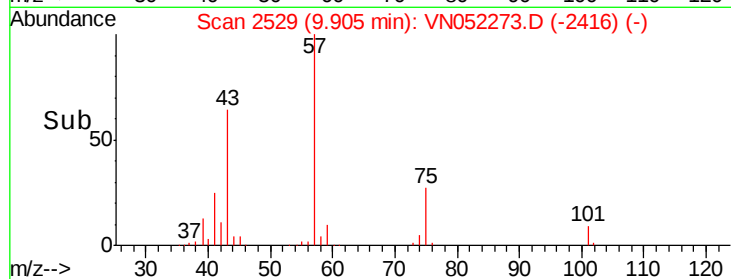
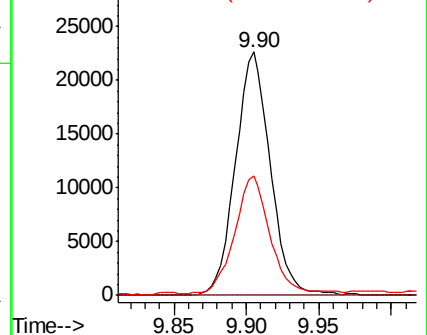
39 47.9 46.6 70.0



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: 0.222 ug/l

RT: 10.53 min Scan# 2724

Delta R.T. 0.10 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

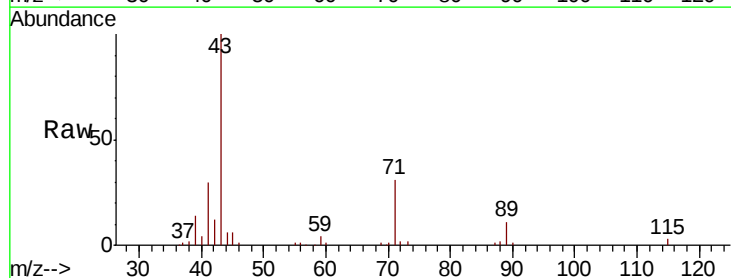
Tgt Ion: 69 Resp: 1038

Ion Ratio Lower Upper

69 100

41 4306.0 64.0 96.0#

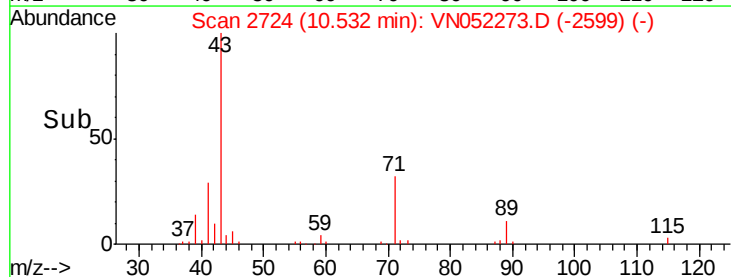
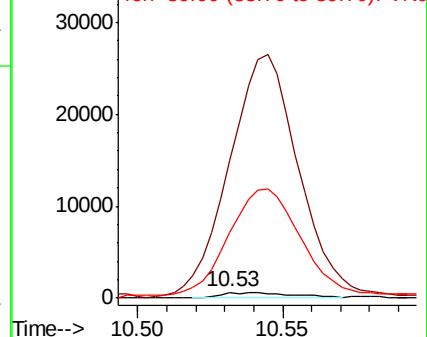
39 2073.4 37.8 56.8#

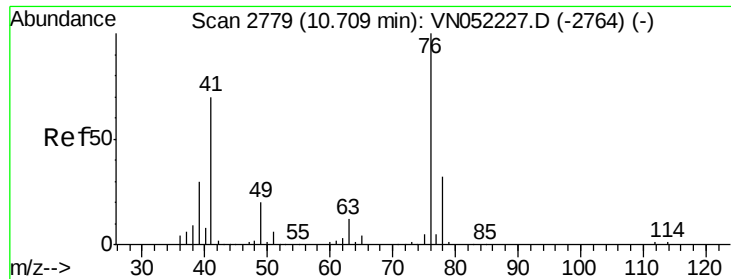


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.262 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

Instrument :

MSVOA_N

ClientSampleId :

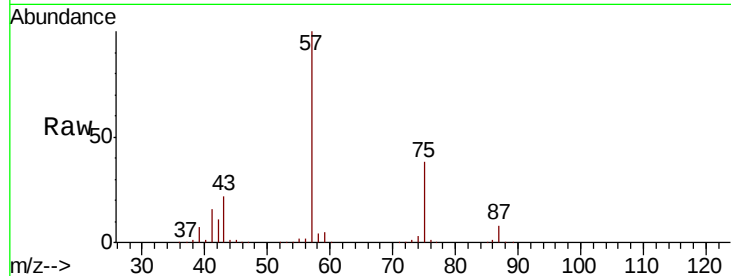
PB114678ZHE#17

Tot Ion: 76 Resp: 7835

Ion Ratio Lower Upper

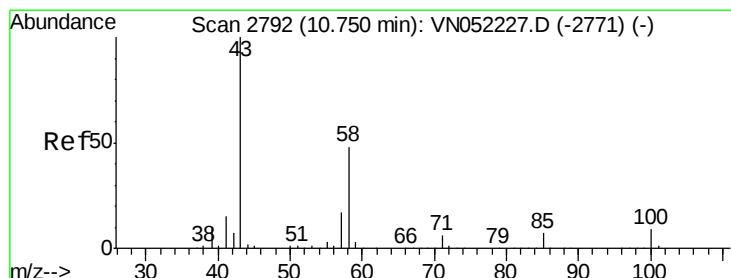
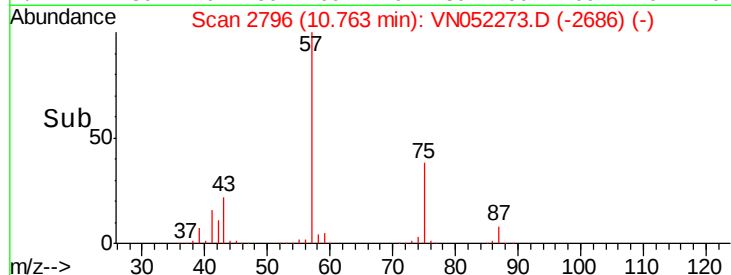
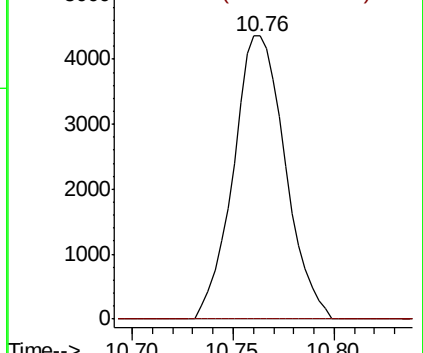
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#59

2-Hexanone

Concen: 45.559 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052273.D

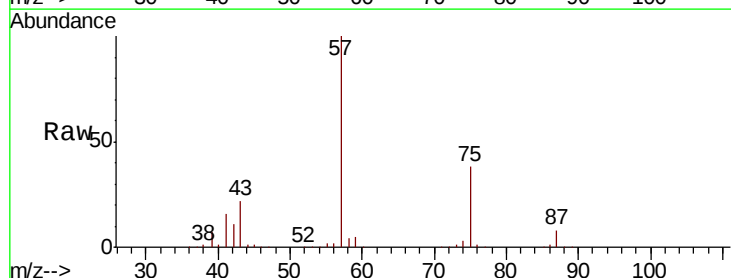
Acq: 12 Nov 2018 20:05

Tgt Ion: 43 Resp: 128605

Ion Ratio Lower Upper

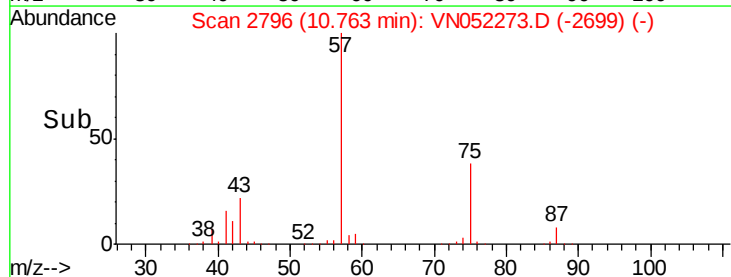
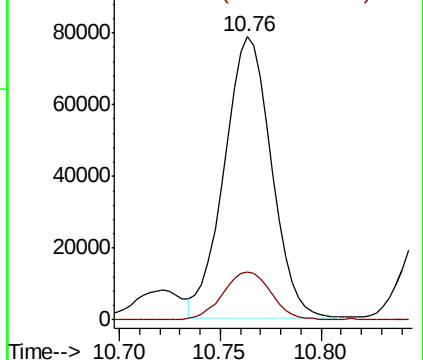
43 100

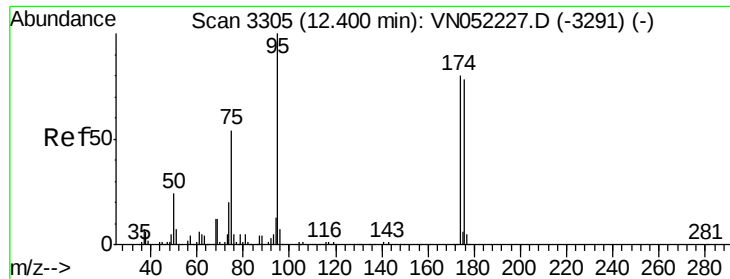
58 17.5 24.1 72.3#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#17

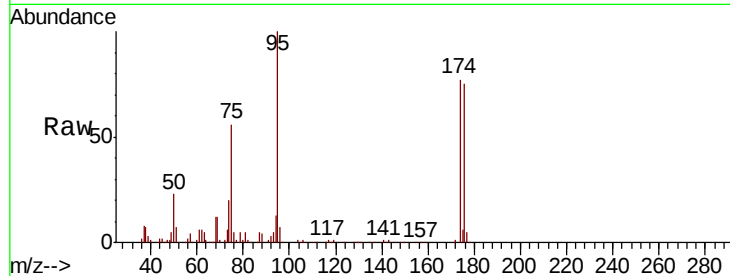
Tot Ion: 95 Resp: 201673

Ion Ratio Lower Upper

95 100

174 77.6 0.0 159.4

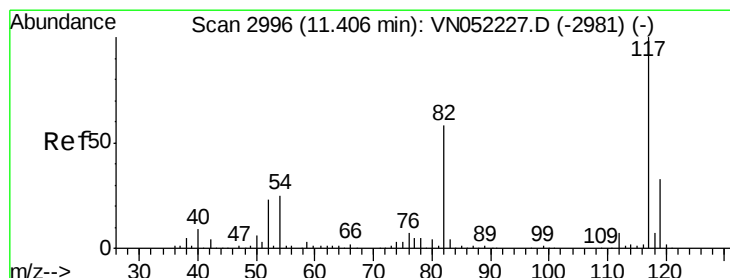
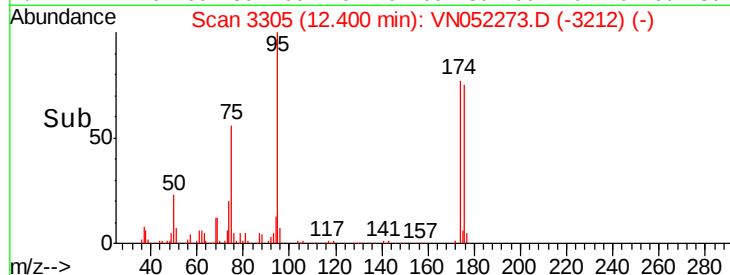
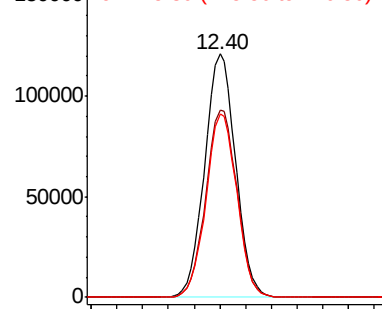
176 75.1 0.0 157.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

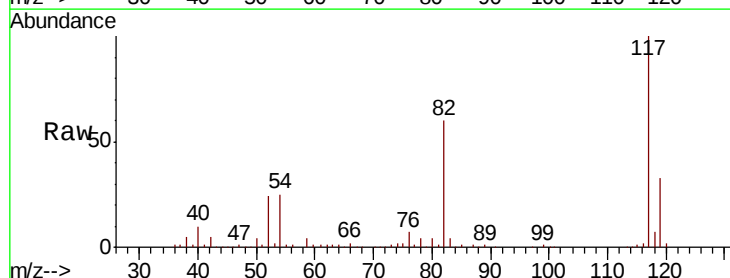
Tgt Ion: 117 Resp: 473631

Ion Ratio Lower Upper

117 100

82 59.6 46.2 69.2

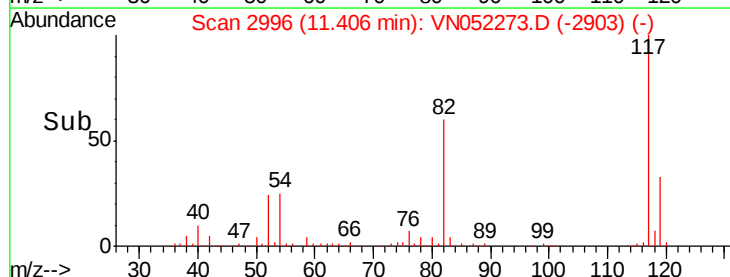
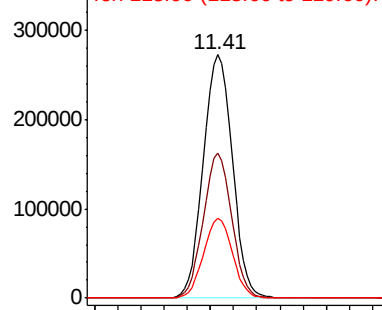
119 32.8 26.2 39.4

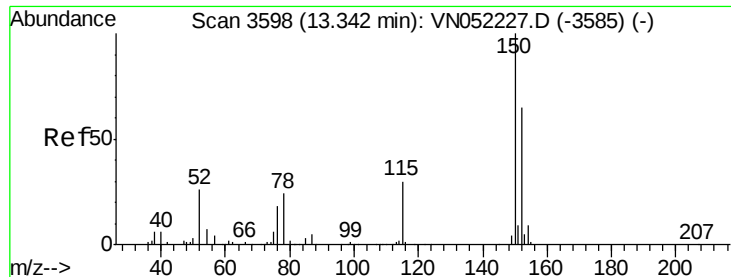


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#17

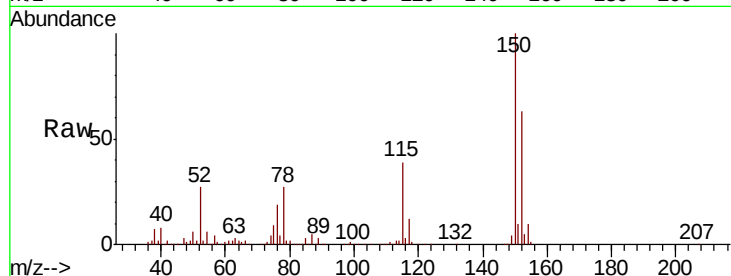
Tot Ion:152 Resp: 169247

Ion Ratio Lower Upper

152 100

115 60.5 29.8 89.5

150 158.7 0.0 350.2

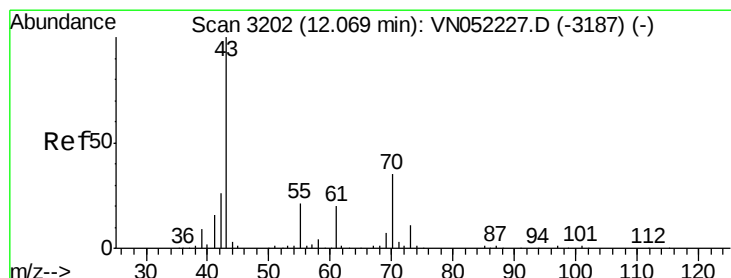
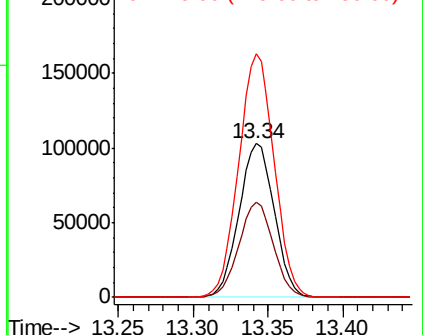
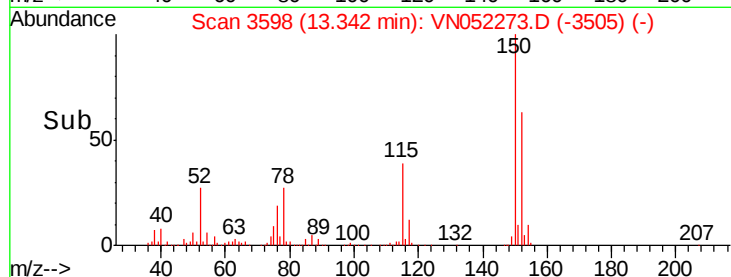


Abundance

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: 3.152 ug/l

RT: 11.87 min Scan# 3141

Delta R.T. -0.20 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

Tgt Ion: 43 Resp: 15831

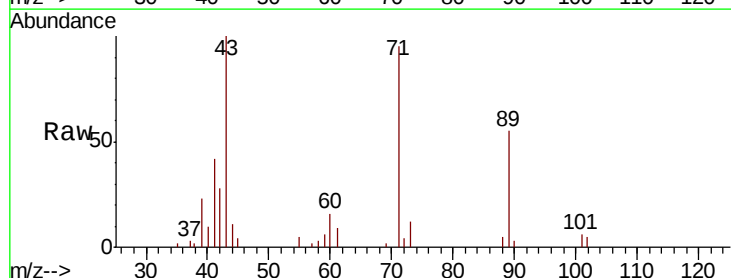
Ion Ratio Lower Upper

43 100

70 1.8 28.2 42.2#

55 5.7 17.4 26.2#

61 9.1 16.3 24.5#



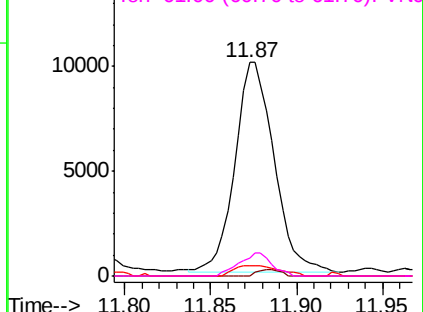
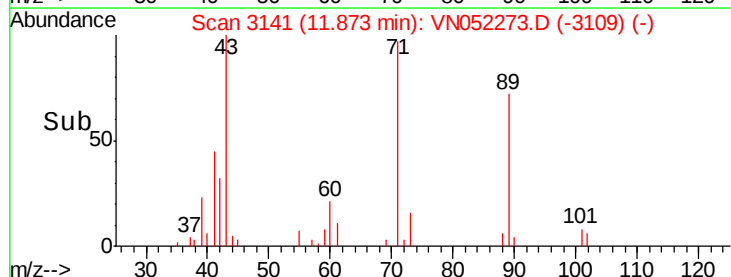
Abundance

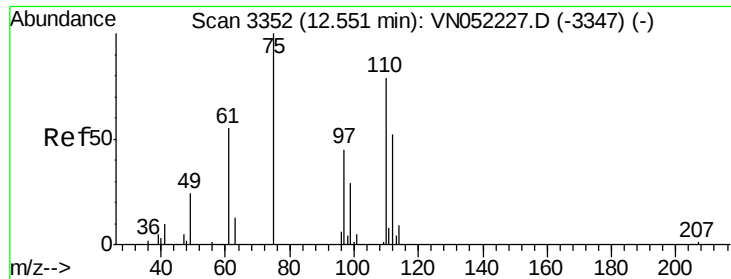
Ion 43.00 (42.70 to 43.70): V

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

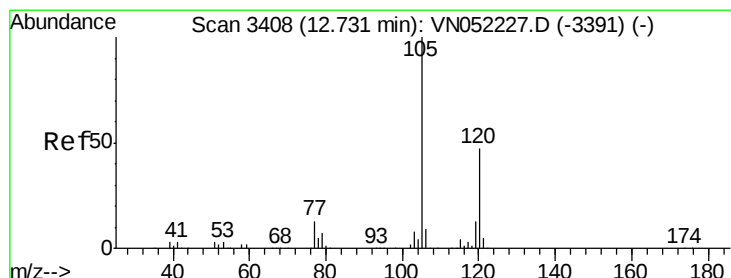
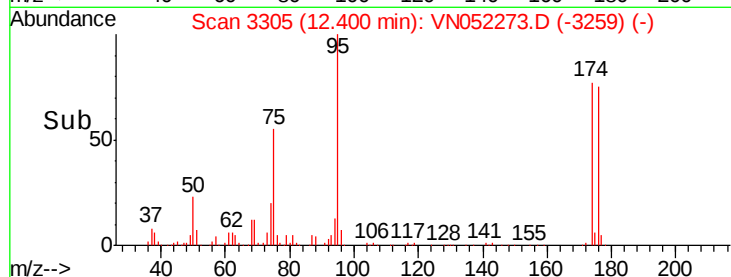
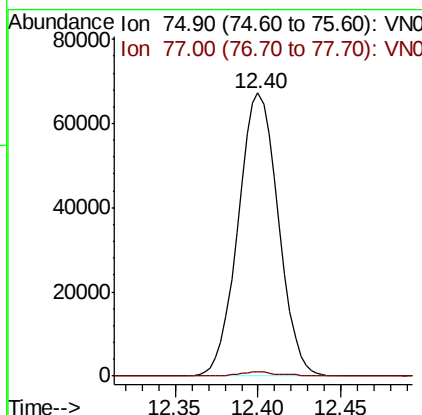
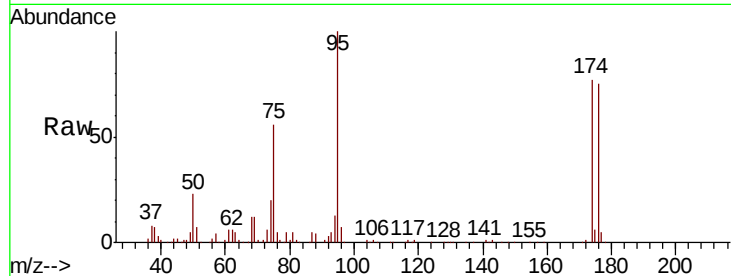




#76
 1,2,3-Trichloropropane
 Concen: 37.781 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN052273.D
 Acq: 12 Nov 2018 20:05

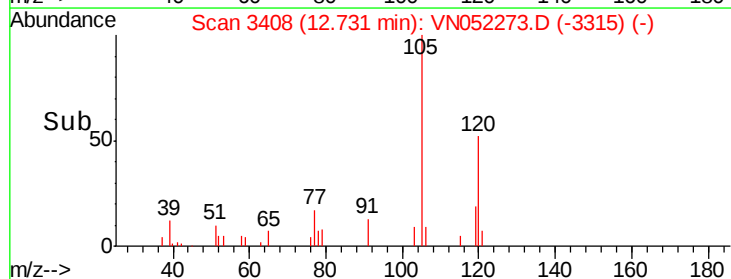
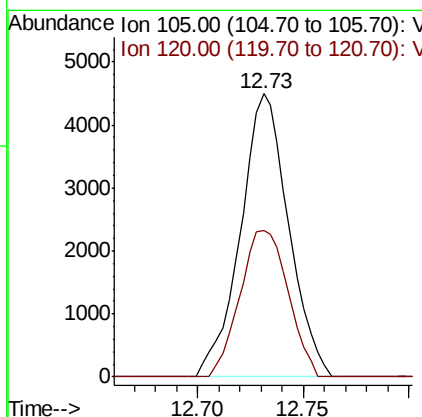
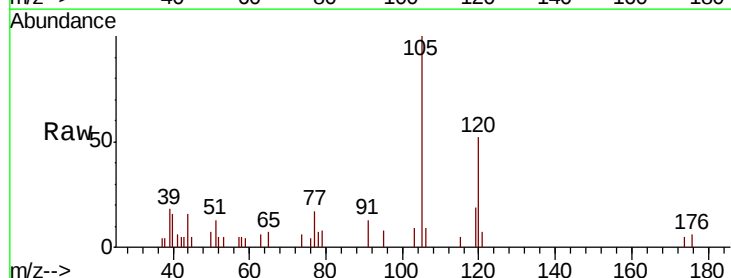
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#17

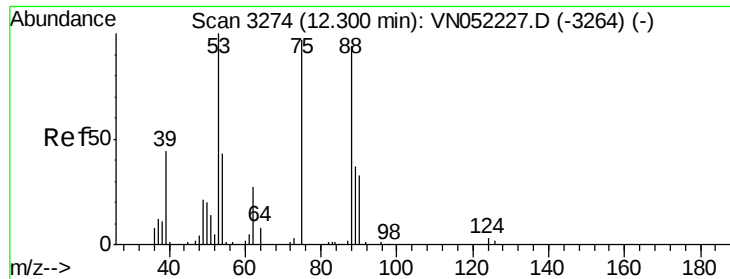
Tot Ion: 75 Resp: 113131
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.647 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN052273.D
 Acq: 12 Nov 2018 20:05

Tgt Ion: 105 Resp: 7120
 Ion Ratio Lower Upper
 105 100
 120 51.8 23.9 71.8





#81

trans-1,4-Dichloro-2-butene

Concen: 128.962 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052273.D

Acq: 12 Nov 2018 20:05

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#17

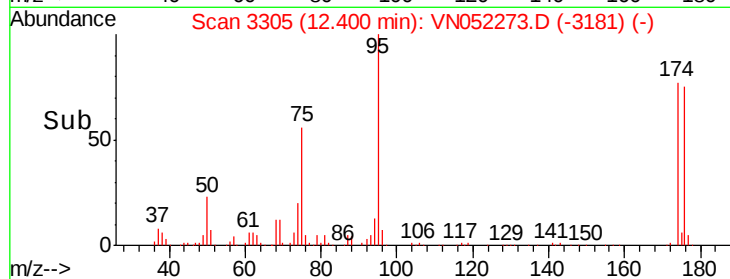
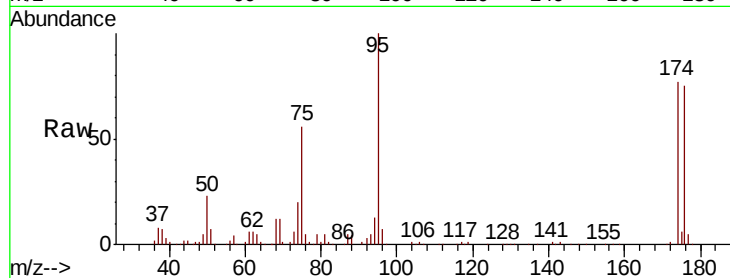
Tot Ion: 75 Resp: 113131

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

