

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100119\
 Data File : VN058460.D
 Acq On : 1 Oct 2019 13:18
 Operator : JC/SP
 Sample : PB123500TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB123500TB

Quant Time: Oct 02 01:26:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	403592	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	664187	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	587685	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	230219	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	294744	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
35) Dibromofluoromethane	7.58	113	207184	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
50) Toluene-d8	10.09	98	835803	52.41	ug/l	0.00
Spiked Amount			Recovery	=	104.82%	
62) 4-Bromofluorobenzene	12.41	95	271571	47.10	ug/l	0.00
Spiked Amount			Recovery	=	94.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	307	0.469	ug/l #	71
16) Acetone	3.80	43	10776	5.360	ug/l	95
18) Methyl Acetate	4.31	43	3061	0.605	ug/l #	62
20) Methylene Chloride	4.53	84	25790	5.559	ug/l	97
25) 2-Butanone	6.83	43	1361	0.493	ug/l #	50
29) Tetrahydrofuran	7.19	42	427	0.244	ug/l #	34
31) Cyclohexane	7.65	56	10328	1.265	ug/l #	22
36) 1,1-Dichloropropene	7.65	75	34961	5.505	ug/l #	47
38) Carbon Tetrachloride	7.65	117	41421	7.225	ug/l #	16
43) Isopropyl Acetate	8.15	43	84740	8.369	ug/l	99
45) 1,2-Dichloropropane	9.26	63	1751	0.358	ug/l #	43
48) Methyl methacrylate	9.18	41	4914	1.066	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	5540	1.065	ug/l	98
54) cis-1,3-Dichloropropene	9.90	75	36470	5.138	ug/l #	67
56) Ethyl methacrylate	10.54	69	1632	0.257	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	6373	0.854	ug/l #	43
59) 2-Hexanone	10.76	43	94247	24.886	ug/l #	52
71) Bromoform	12.40	173	382	0.833	ug/l #	29
74) N-amyl acetate	12.05	43	3795	0.561	ug/l #	45
76) 1,2,3-Trichloropropane	12.41	75	150647	35.826	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	150647	108.808	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058460.D

Acq: 1 Oct 2019 13:18

Instrument :

MSVOA_N

ClientSampleId :

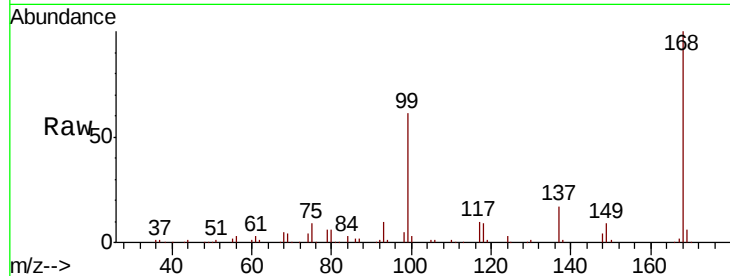
PB123500TB

Tot Ion:168 Resp: 403592

Ion Ratio Lower Upper

168 100

99 60.7 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

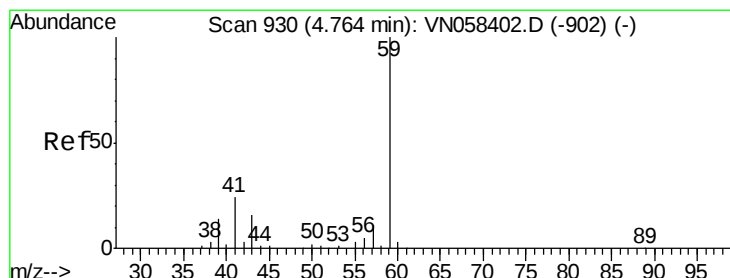
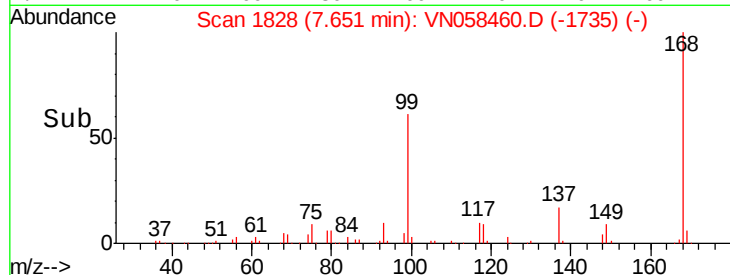
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.469 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN058460.D

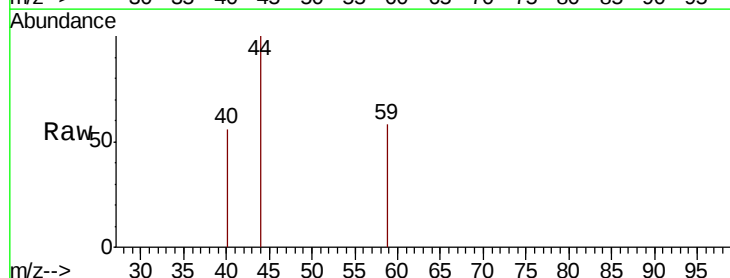
Acq: 1 Oct 2019 13:18

Tgt Ion: 59 Resp: 307

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.75

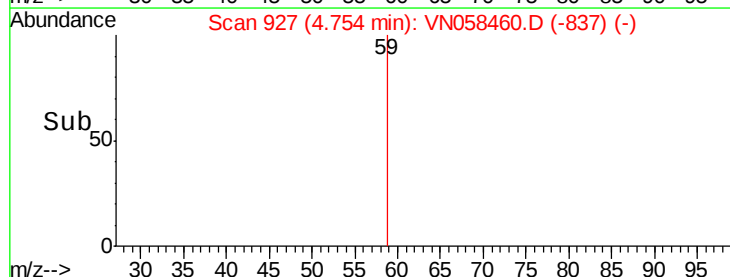
300

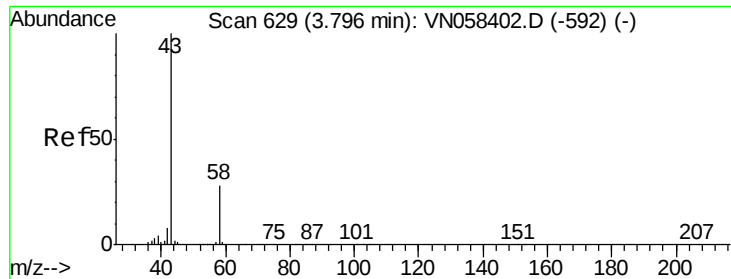
200

100

0

Time-->

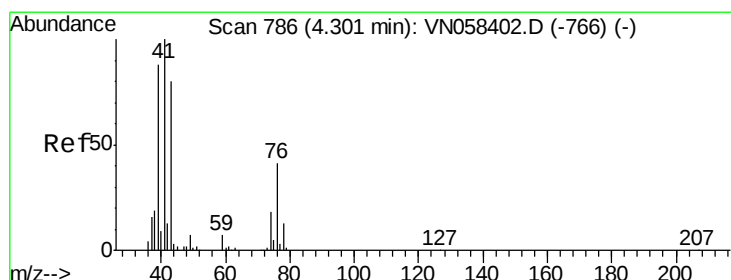
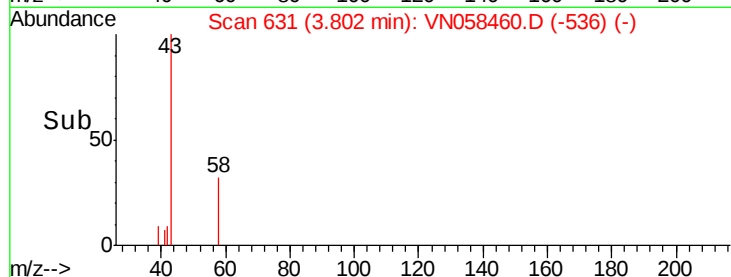
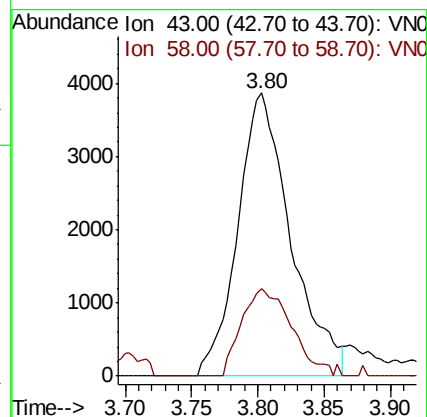
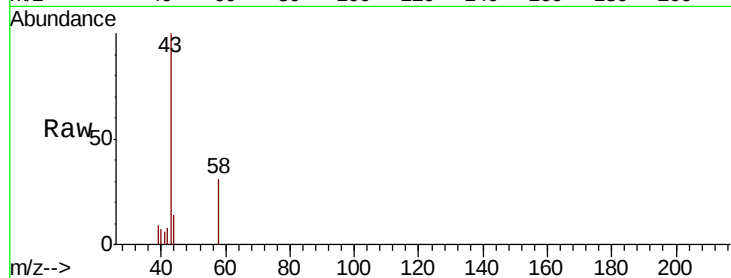




#16
Acetone
Concen: 5.360 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN058460.D
Acq: 1 Oct 2019 13:18

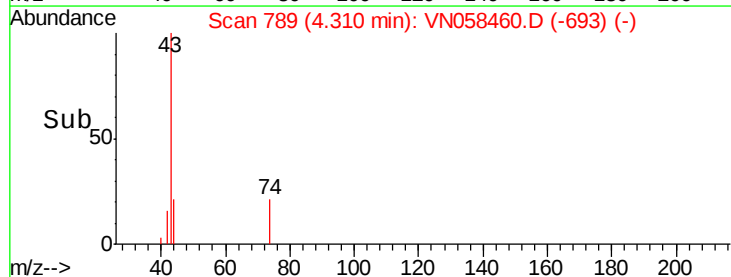
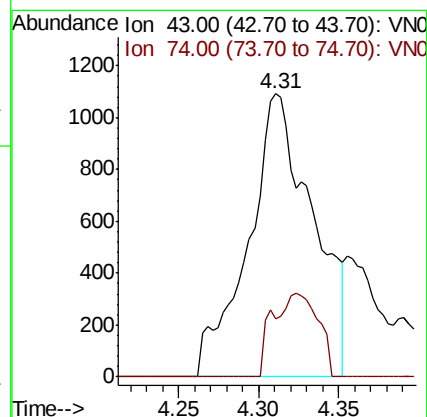
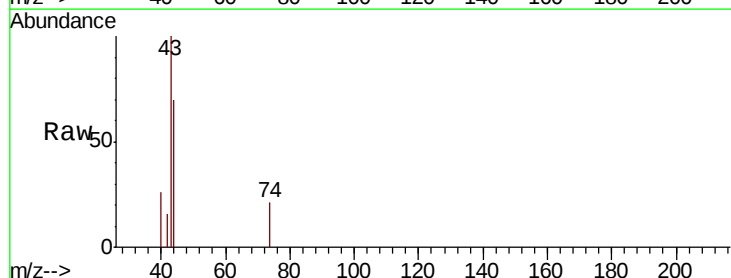
Instrument :
MSVOA_N
ClientSampleId :
PB123500TB

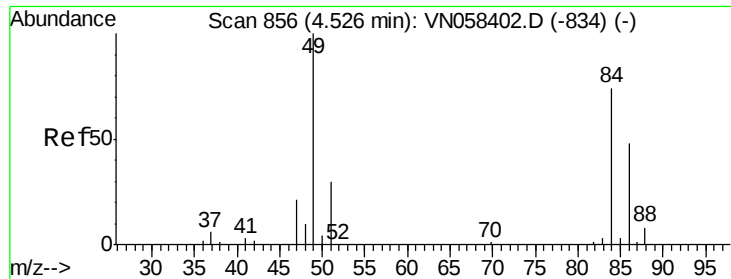
Tot Ion: 43 Resp: 10776
Ion Ratio Lower Upper
43 100
58 30.8 22.4 33.6



#18
Methyl Acetate
Concen: 0.605 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN058460.D
Acq: 1 Oct 2019 13:18

Tgt Ion: 43 Resp: 3061
Ion Ratio Lower Upper
43 100
74 4.4 18.0 27.0#

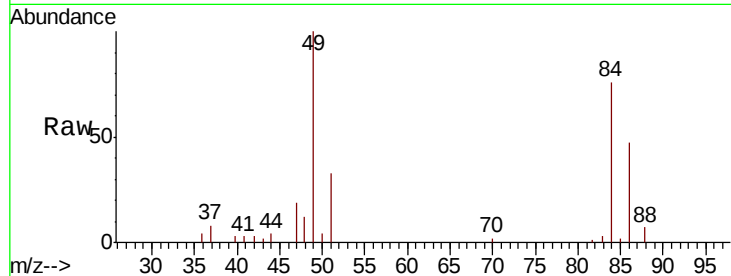




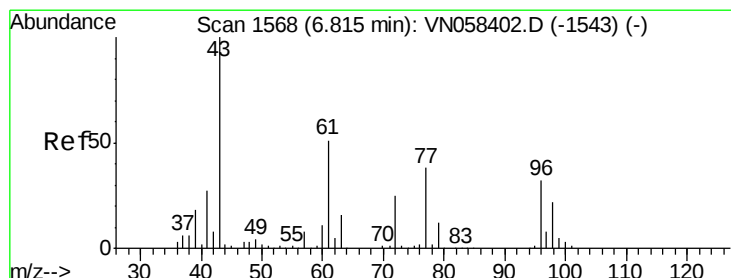
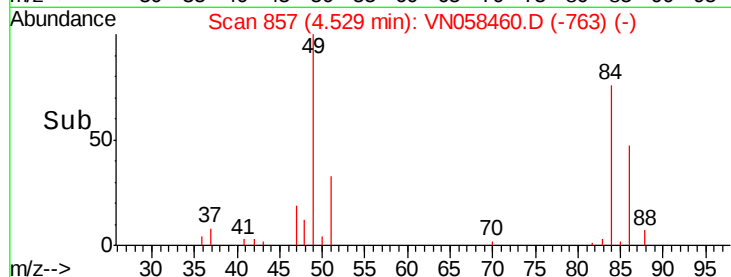
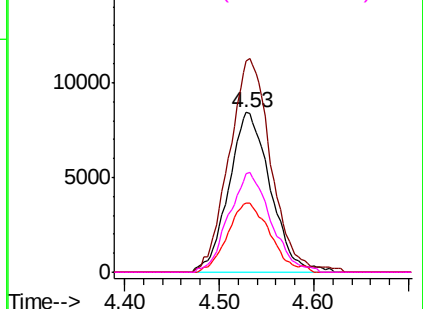
#20
Methvlene Chloride
Concen: 5.559 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058460.D
Acq: 1 Oct 2019 13:18

Instrument :
MSVOA_N
ClientSampleId :
PB123500TB

Tot Ion: 84 Resp: 25790
Ion Ratio Lower Upper
84 100
49 131.7 107.9 161.9
51 43.0 32.8 49.2
86 61.5 51.5 77.3

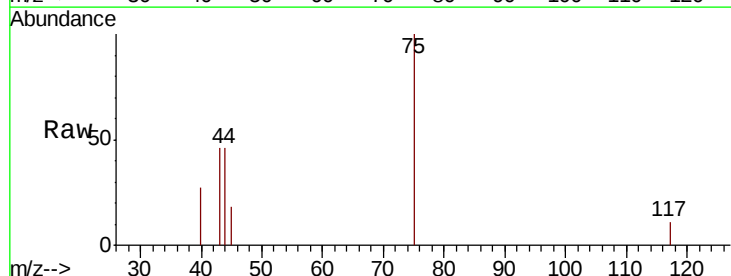


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

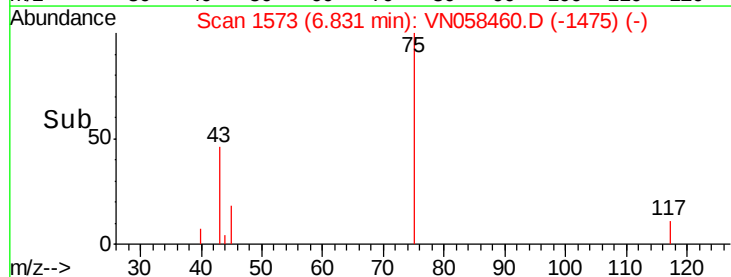
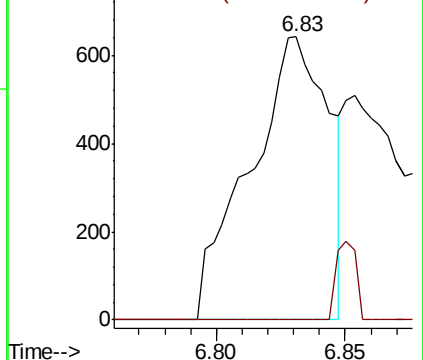


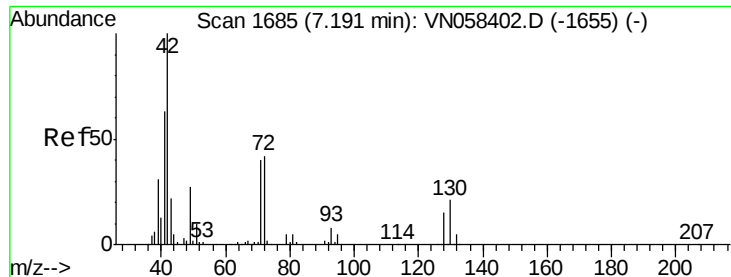
#25
2-Butanone
Concen: 0.493 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN058460.D
Acq: 1 Oct 2019 13:18

Tgt Ion: 43 Resp: 1361
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.4#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.244 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VN058460.D

Acq: 1 Oct 2019 13:18

Instrument :

MSVOA_N

ClientSampled :

PB123500TB

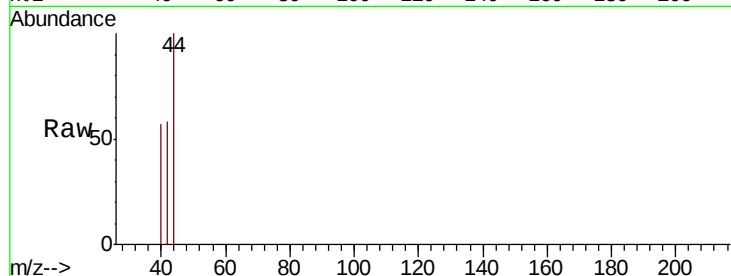
Tot Ion: 42 Resp: 427

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 31.8 47.6#

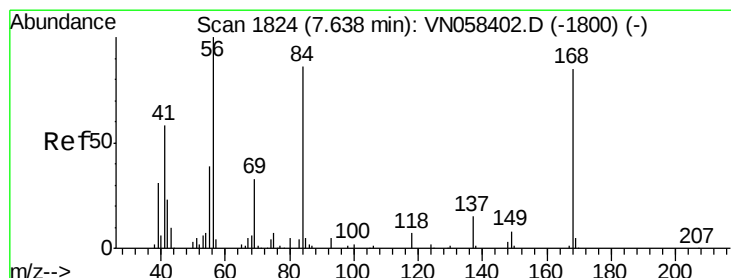
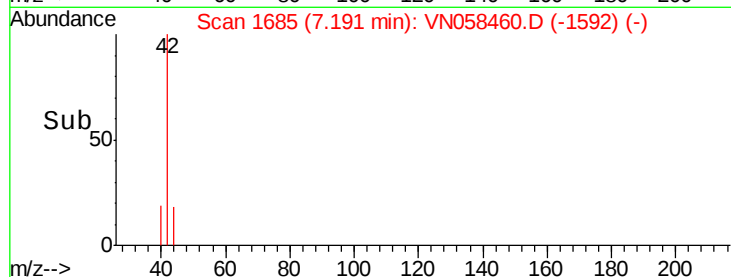


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

Time--> 7.16 7.18 7.20



#31

Cyclohexane

Concen: 1.265 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058460.D

Acq: 1 Oct 2019 13:18

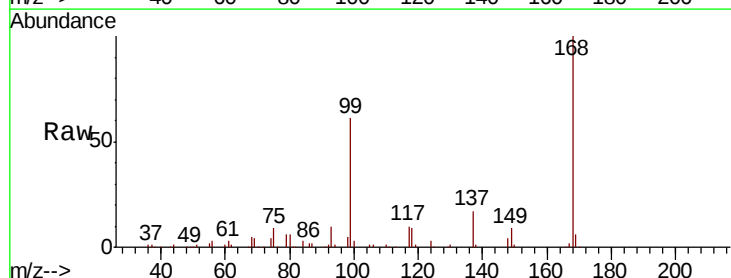
Tgt Ion: 56 Resp: 10328

Ion Ratio Lower Upper

56 100

69 143.6 26.2 39.4#

84 114.2 67.6 101.4#

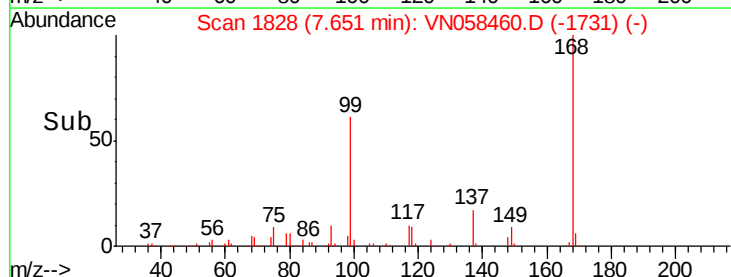


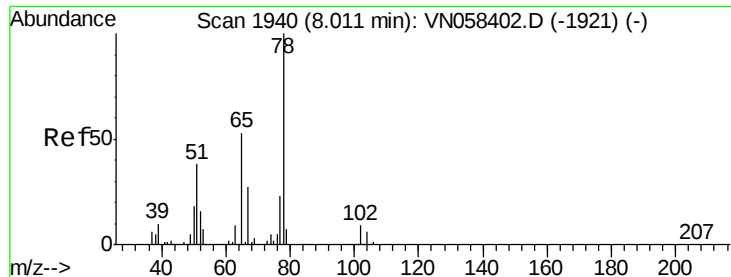
Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

Time--> 7.60 7.65 7.70

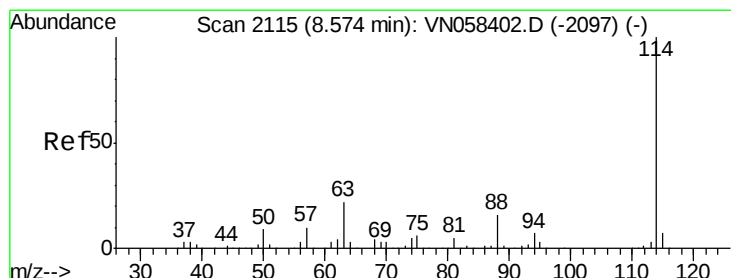
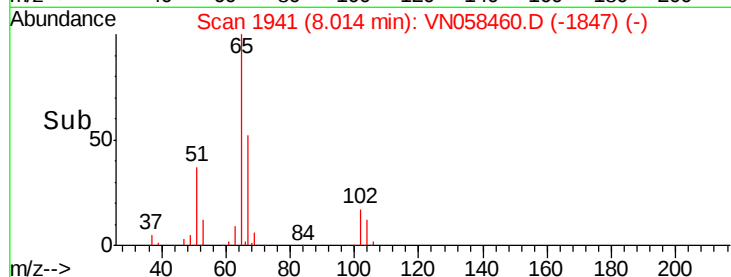
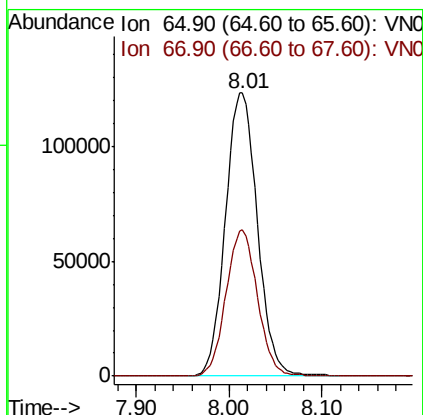
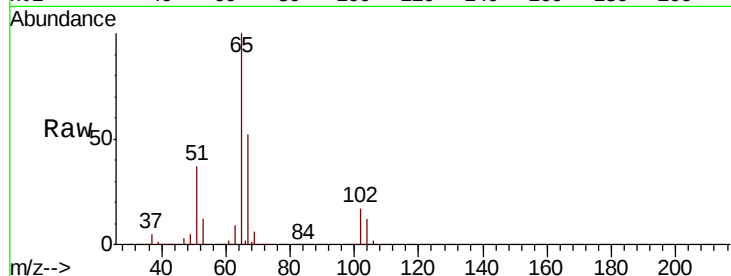




#33
 1,2-Dichloroethane-d4
 Concen: 49.975 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058460.D
 Acq: 1 Oct 2019 13:18

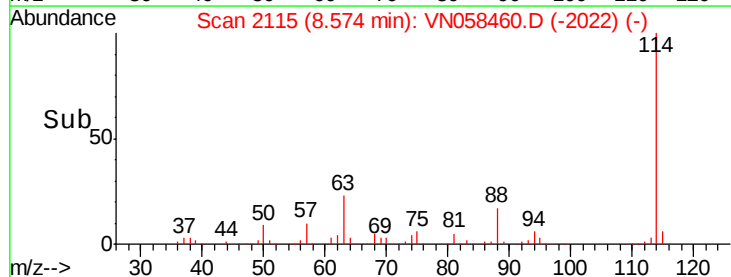
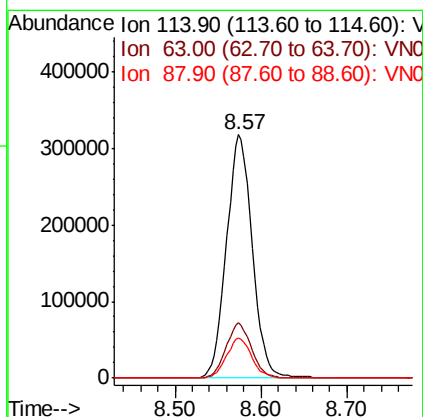
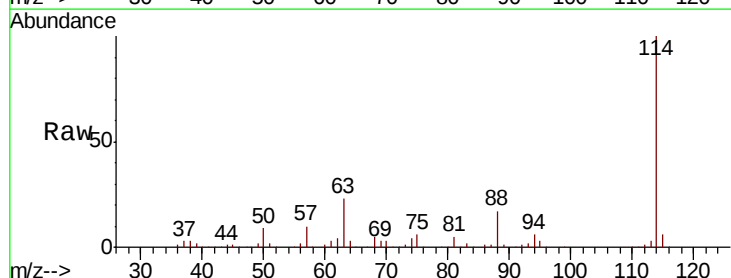
Instrument :
 MSVOA_N
 ClientSampled :
 PB123500TB

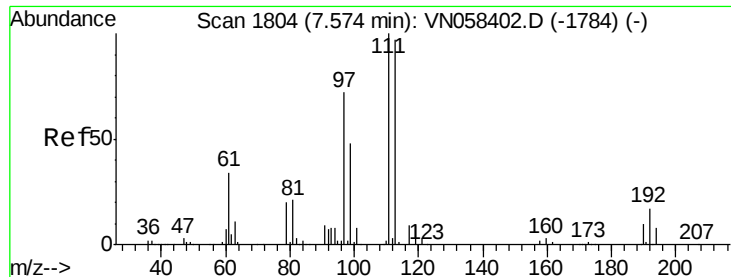
Tot Ion: 65 Resp: 294744
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058460.D
 Acq: 1 Oct 2019 13:18

Tgt Ion: 114 Resp: 664187
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 45.0
 88 16.7 0.0 32.2

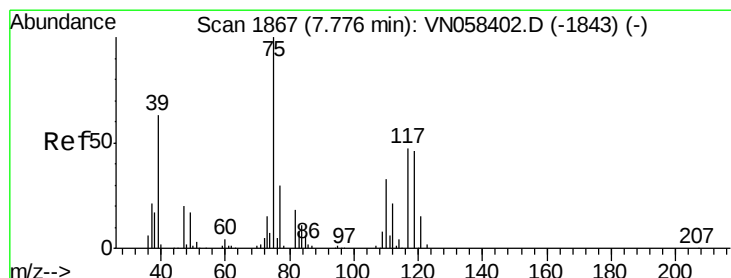
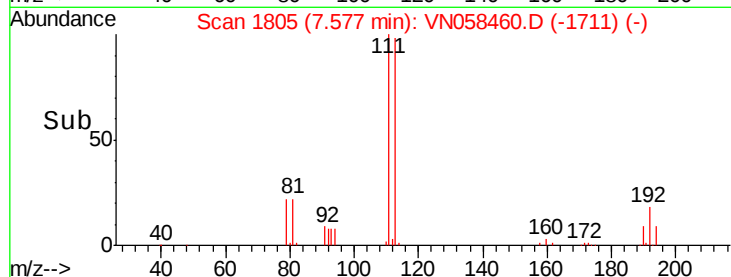
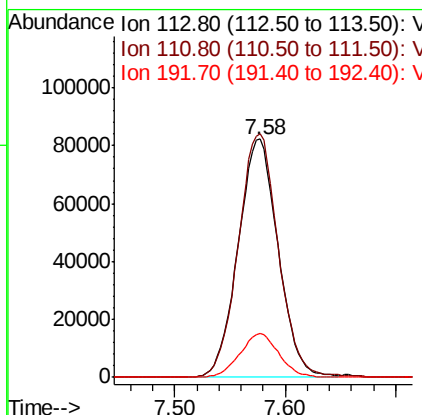
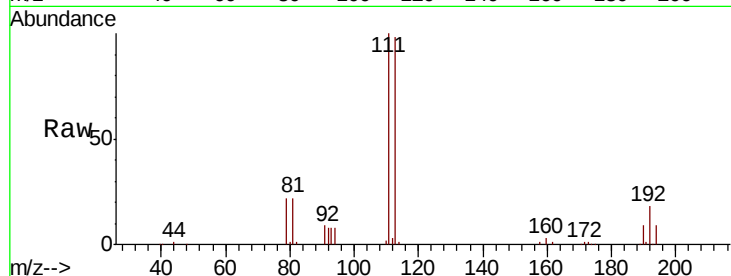




#35
 Dibromofluoromethane
 Concen: 50.896 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058460.D
 Acq: 1 Oct 2019 13:18

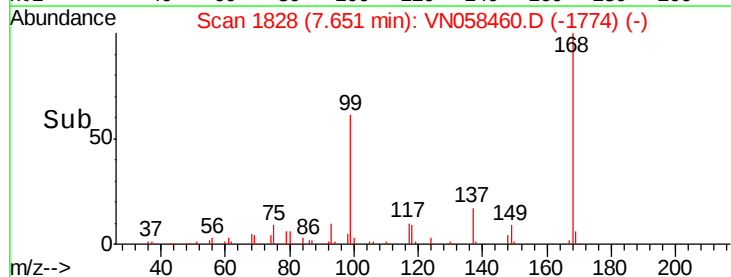
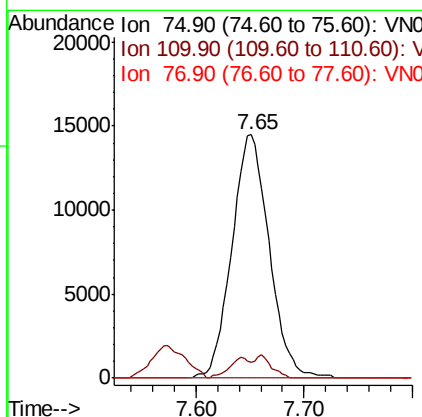
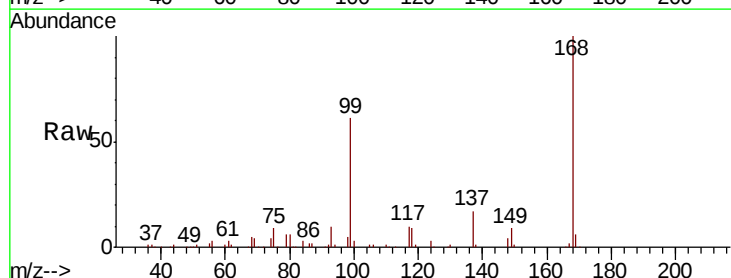
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 MSVOA_N
 ClientSampled :
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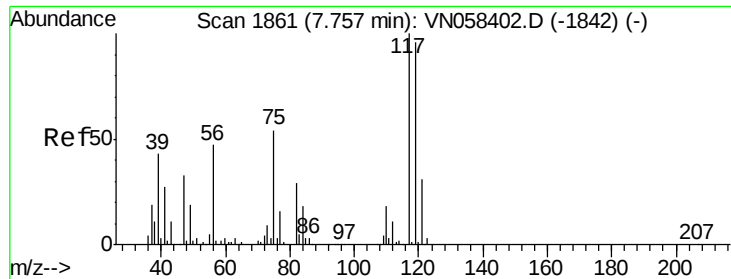
Tot Ion:113 Resp: 207184
 Ion Ratio Lower Upper
 113 100
 111 102.4 83.4 125.2
 192 17.9 14.9 22.3



#36
 1,1-Dichloropropene
 Concen: 5.505 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058460.D
 Acq: 1 Oct 2019 13:18

Tgt Ion: 75 Resp: 34961
 Ion Ratio Lower Upper
 75 100
 110 4.7 16.4 49.2#
 77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 7.225 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058460.D

Acq: 1 Oct 2019 13:18

Instrument :

MSVOA_N

ClientSampleId :

PB123500TB

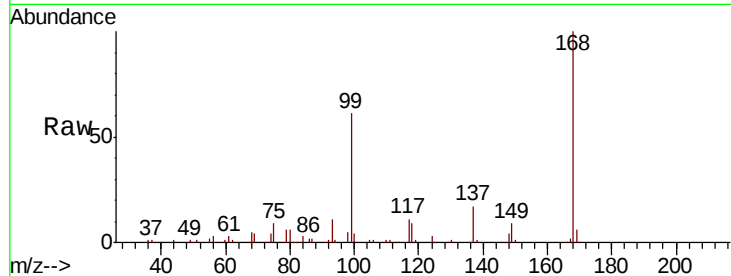
Tot Ion:117 Resp: 41421

Ion Ratio Lower Upper

117 100

119 4.8 76.6 115.0#

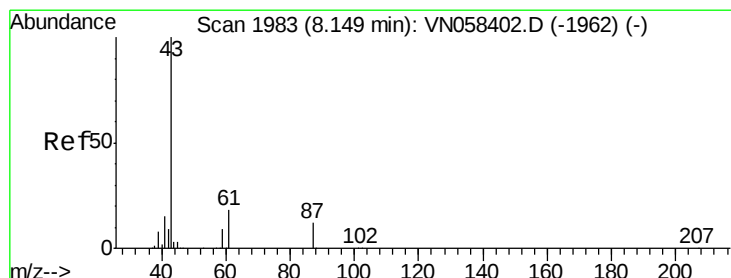
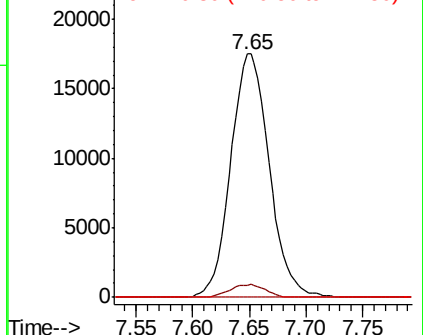
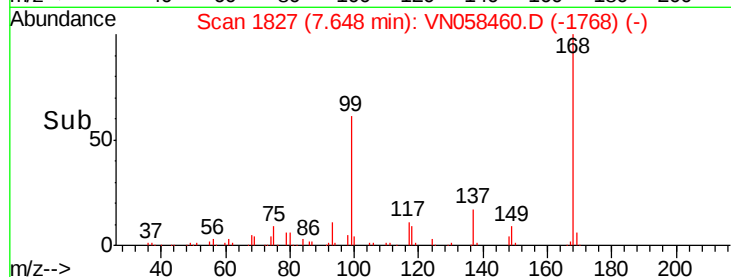
121 0.0 24.7 37.1#



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: 8.369 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058460.D

Acq: 1 Oct 2019 13:18

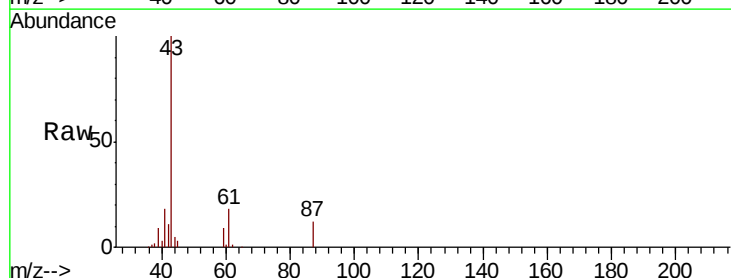
Tgt Ion: 43 Resp: 84740

Ion Ratio Lower Upper

43 100

61 18.4 14.8 22.2

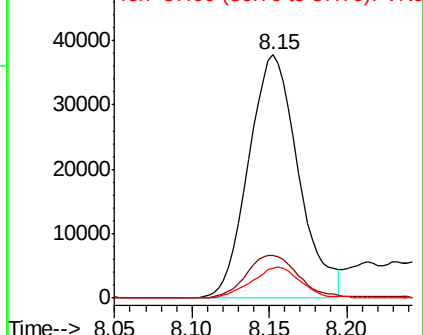
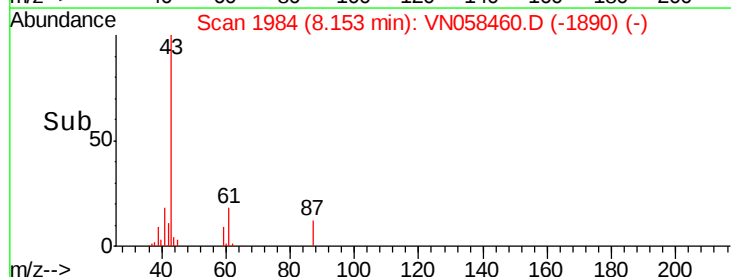
87 12.6 9.7 14.5

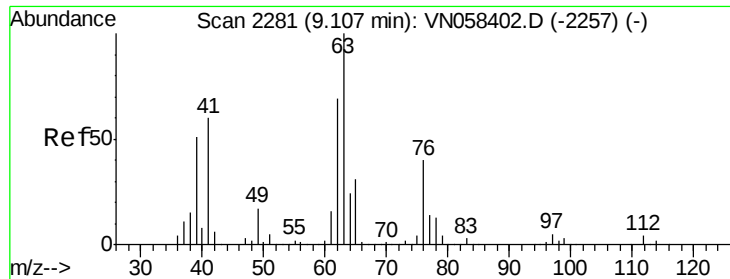


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

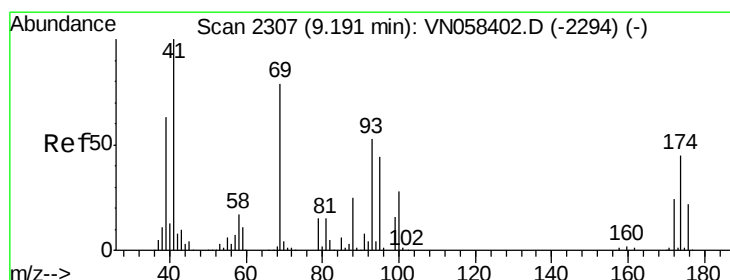
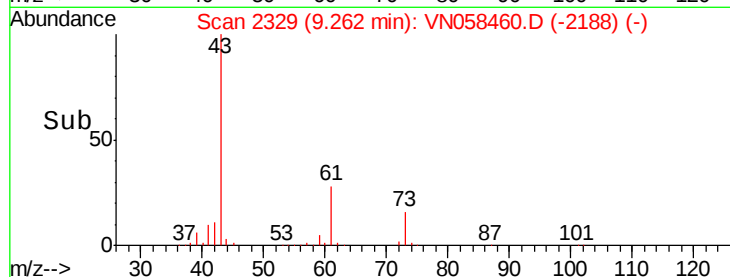
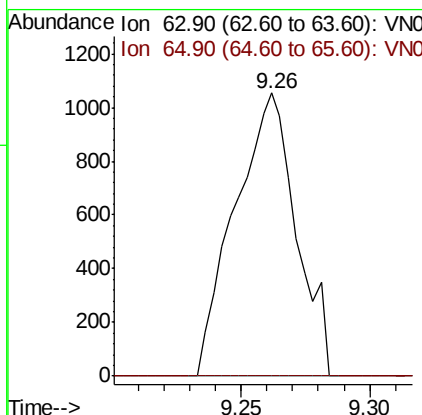
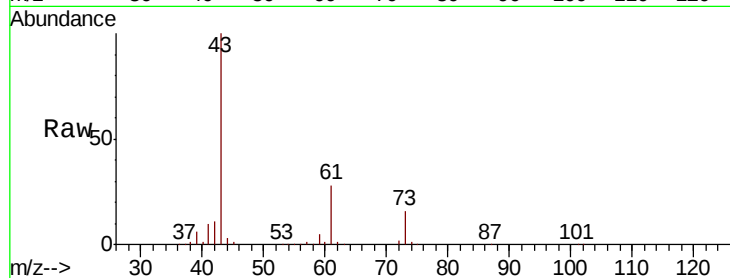




#45
 1,2-Dichloropropane
 Concen: 0.358 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN058460.D
 Acq: 1 Oct 2019 13:18

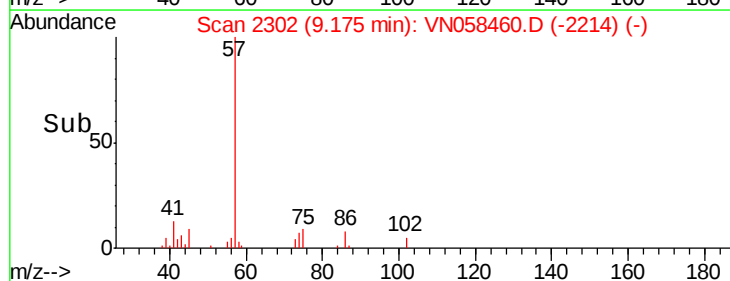
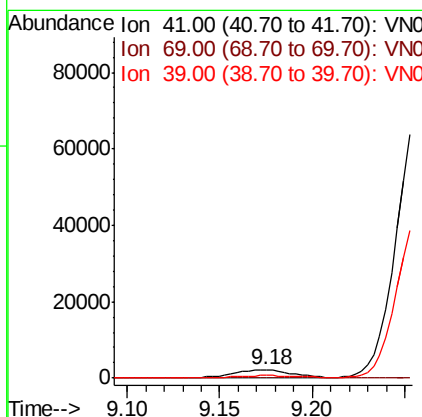
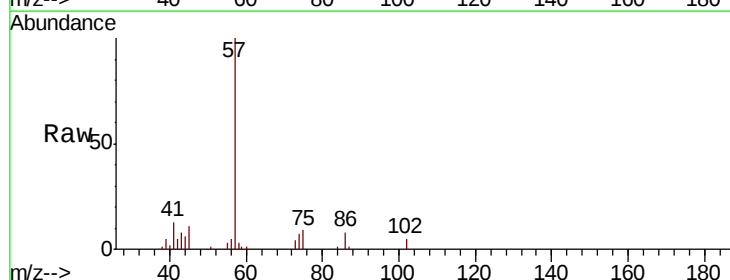
Instrument :
 MSVOA_N
 ClientSampleId :
 PB123500TB

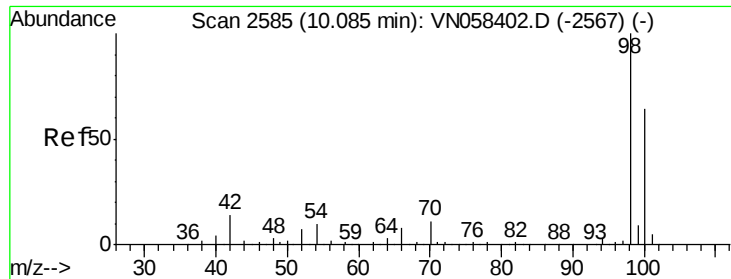
Tot Ion: 63 Resp: 1751
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.066 ug/l
 RT: 9.18 min Scan# 2302
 Delta R.T. -0.02 min
 Lab File: VN058460.D
 Acq: 1 Oct 2019 13:18

Tgt Ion: 41 Resp: 4914
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.7 97.1#
 39 0.0 52.9 79.3#





#50

Toluene-d8

Concen: 52.412 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058460.D

Acq: 1 Oct 2019 13:18

Instrument :

MSVOA_N

ClientSampled :

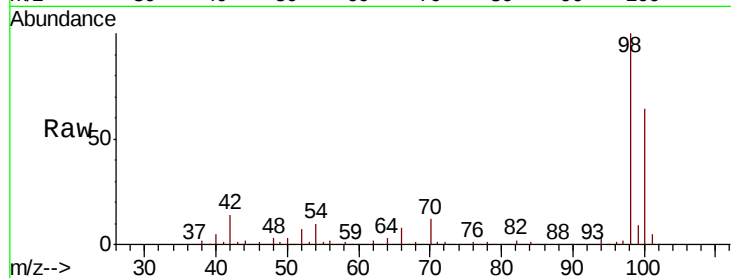
PB123500TB

Tot Ion: 98 Resp: 835803

Ion Ratio Lower Upper

98 100

100 64.1 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

400000

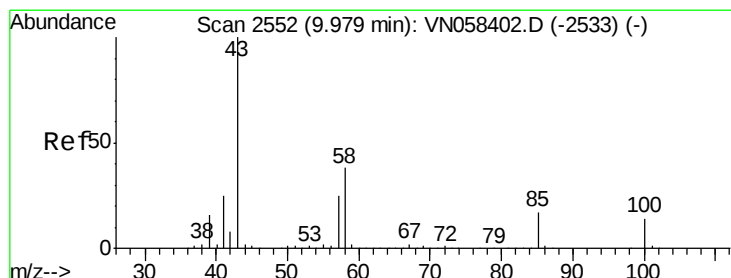
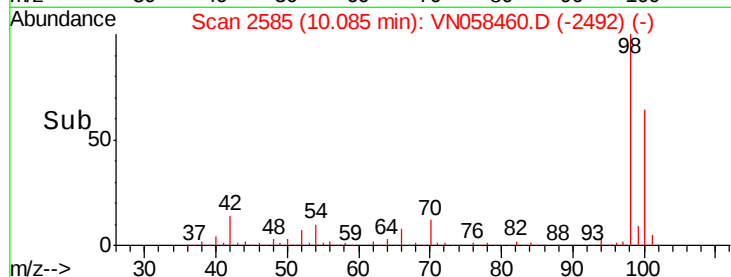
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.065 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN058460.D

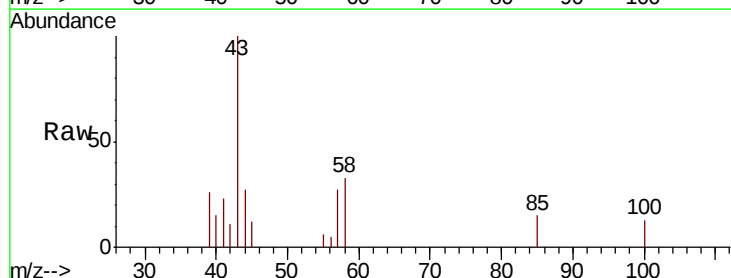
Acq: 1 Oct 2019 13:18

Tgt Ion: 43 Resp: 5540

Ion Ratio Lower Upper

43 100

58 39.2 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10000

8000

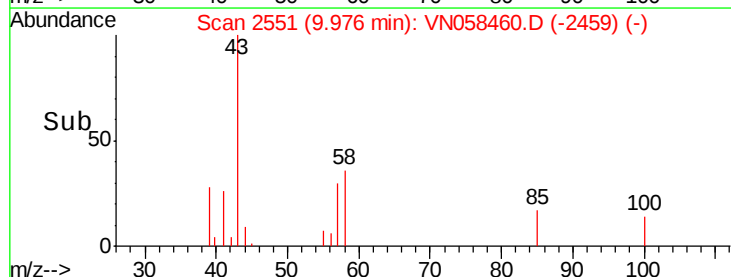
6000

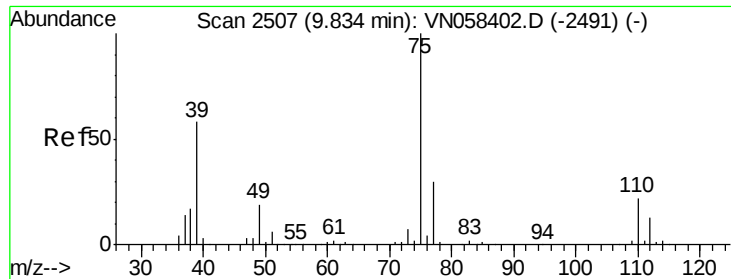
4000

2000

0

Time-->



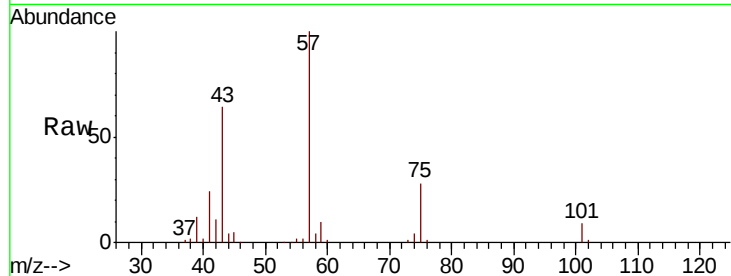


#54

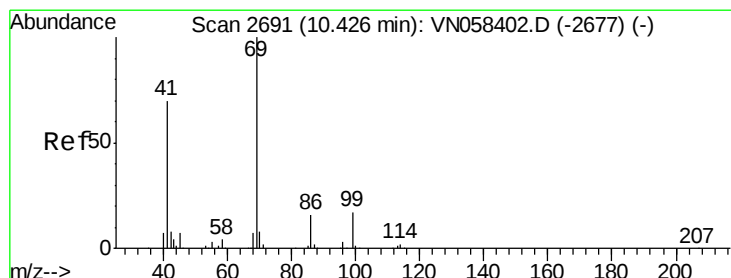
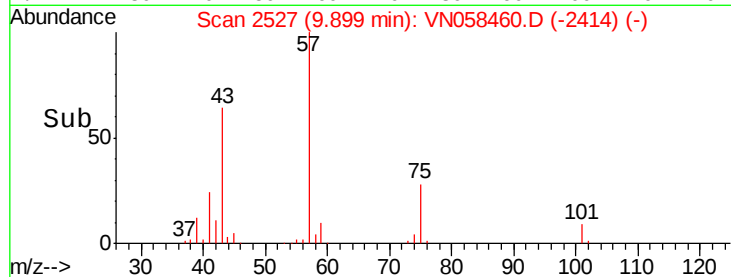
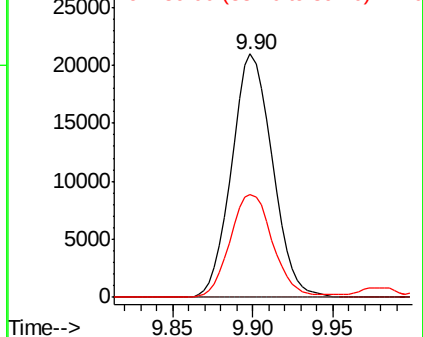
cis-1,3-Dichloropropene
 Concen: 5.138 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN058460.D
 Acq: 1 Oct 2019 13:18

Instrument :
 MSVOA_N
 ClientSampled :
 PB123500TB

Tot Ion: 75 Resp: 36470
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.2 36.4#
 39 42.2 46.4 69.6#



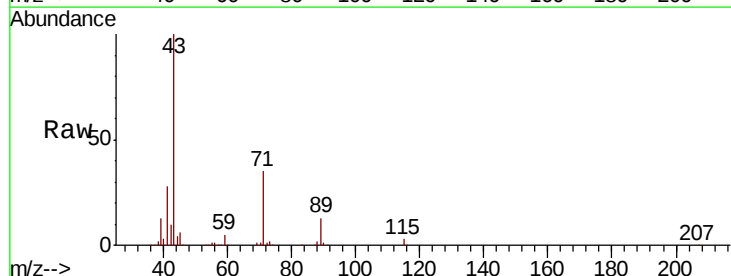
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



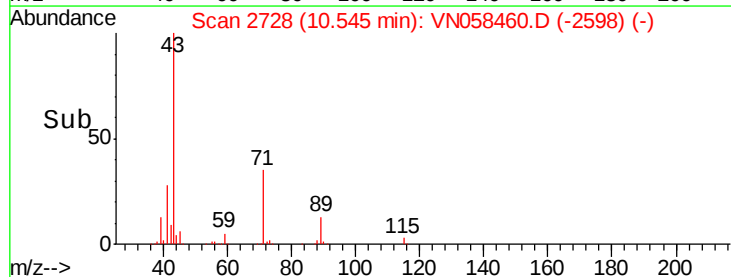
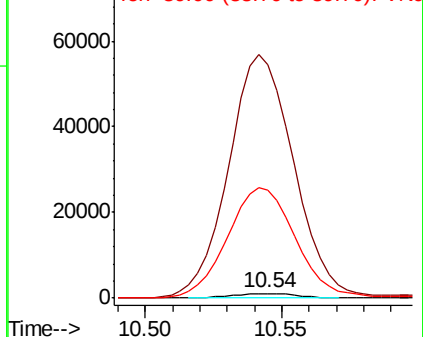
#56

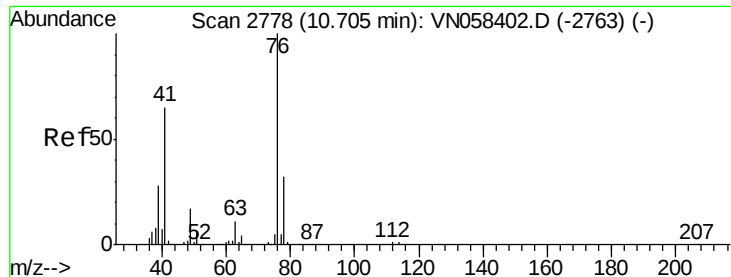
Ethyl methacrylate
 Concen: 0.257 ug/l
 RT: 10.54 min Scan# 2728
 Delta R.T. 0.12 min
 Lab File: VN058460.D
 Acq: 1 Oct 2019 13:18

Tgt Ion: 69 Resp: 1632
 Ion Ratio Lower Upper
 69 100
 41 5772.4 56.3 84.5#
 39 2774.0 35.8 53.6#



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

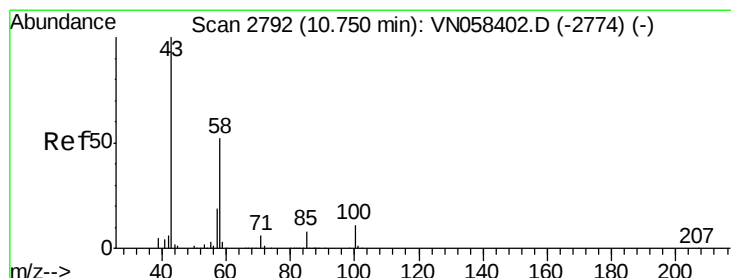
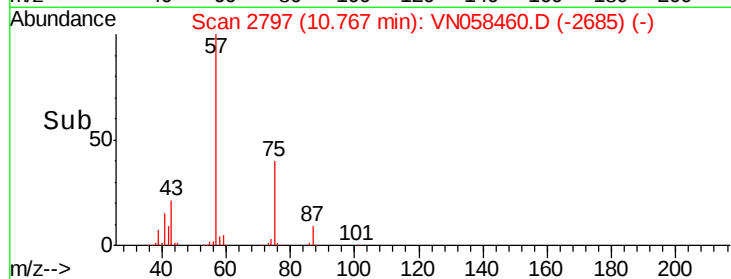
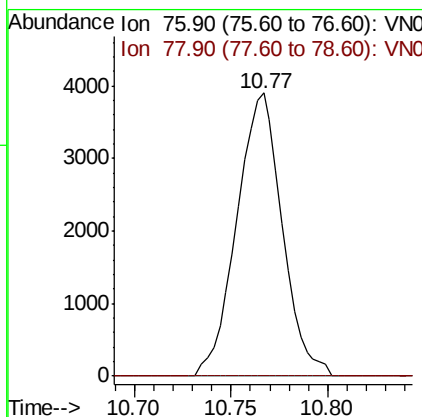
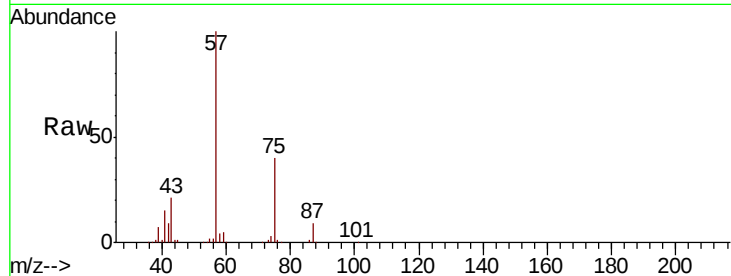




#57
 1,3-Dichloropropane
 Concen: 0.854 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN058460.D
 Acq: 1 Oct 2019 13:18

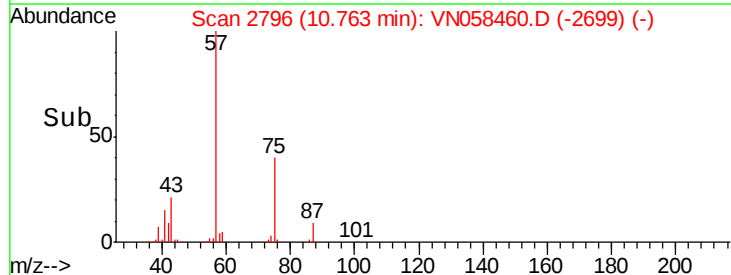
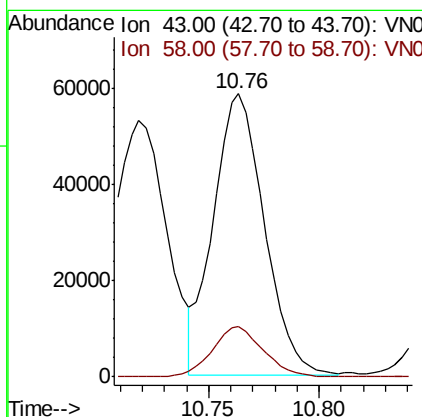
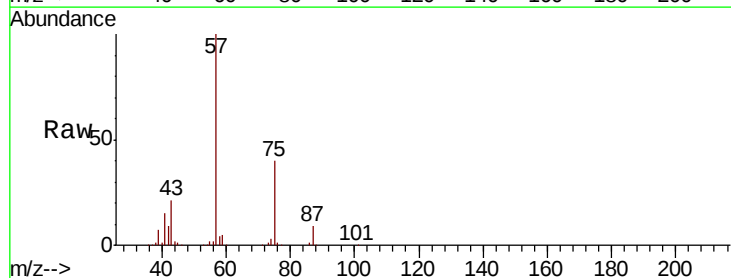
Instrument :
 MSVOA_N
 ClientSampleId :
 PB123500TB

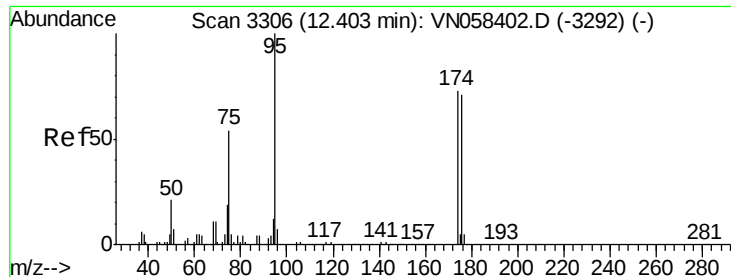
Tot Ion: 76 Resp: 6373
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 24.886 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN058460.D
 Acq: 1 Oct 2019 13:18

Tgt Ion: 43 Resp: 94247
 Ion Ratio Lower Upper
 43 100
 58 17.8 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 47.098 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058460.D

Acq: 1 Oct 2019 13:18

Instrument :

MSVOA_N

ClientSampleId :

PB123500TB

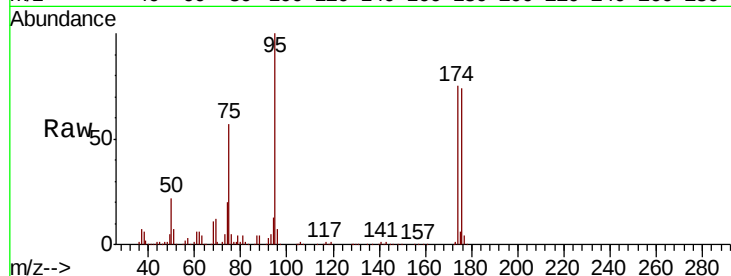
Tot Ion: 95 Resp: 271571

Ion Ratio Lower Upper

95 100

174 74.0 0.0 150.6

176 72.0 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058402.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058402.D (-3292) (-)

12.41

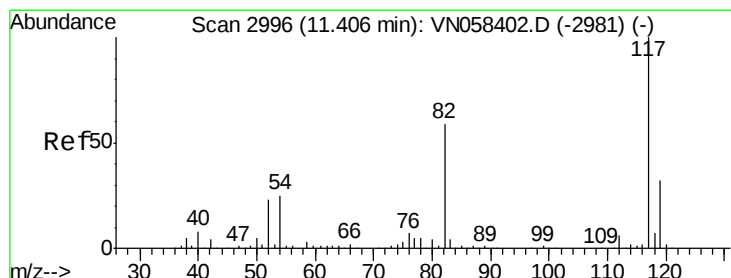
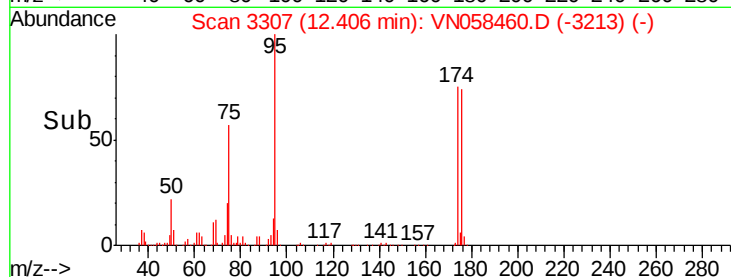
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058460.D

Acq: 1 Oct 2019 13:18

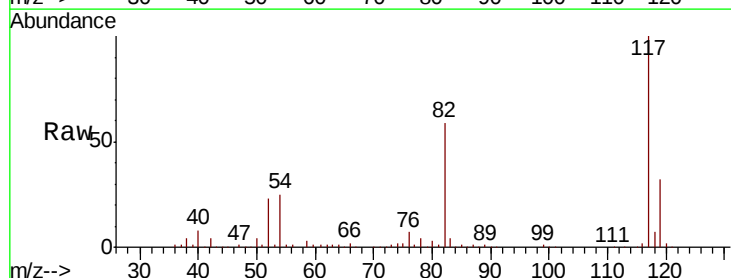
Tgt Ion: 117 Resp: 587685

Ion Ratio Lower Upper

117 100

82 58.9 47.4 71.0

119 31.6 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058402.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058402.D (-2981) (-)

11.41

400000

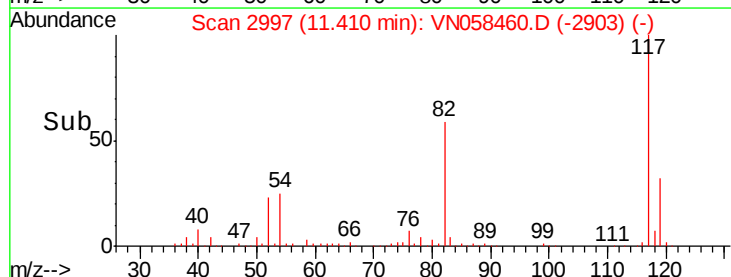
300000

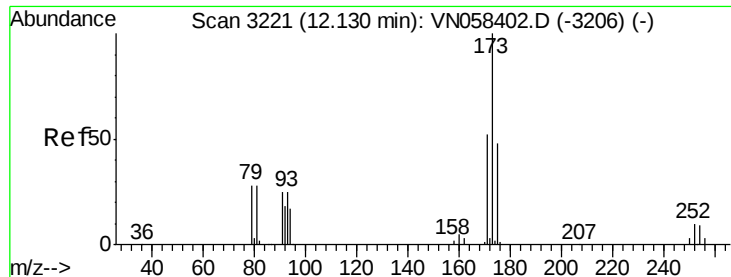
200000

100000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.833 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN058460.D

Acq: 1 Oct 2019 13:18

Instrument :

MSVOA_N

ClientSampleId :

PB123500TB

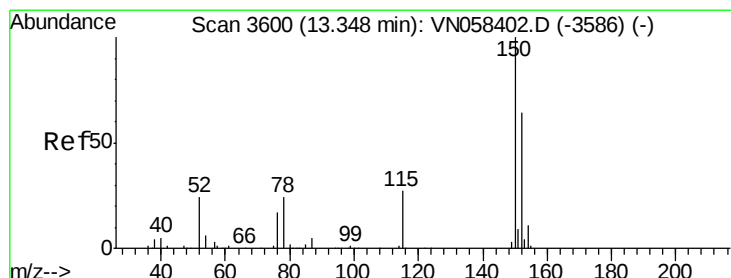
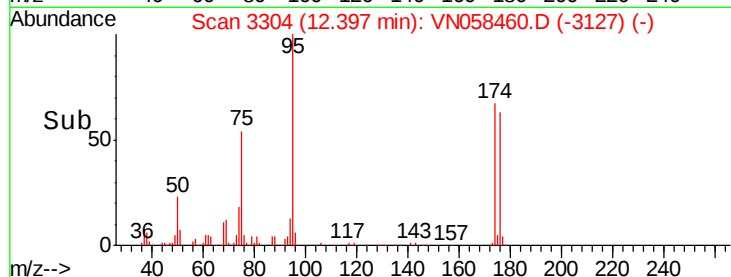
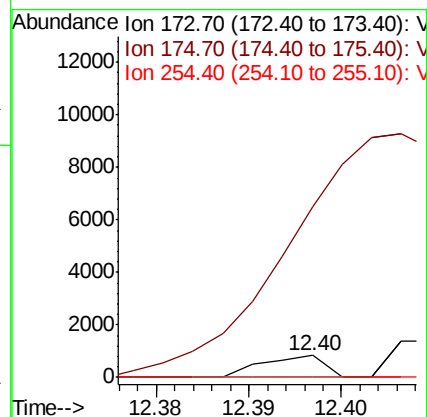
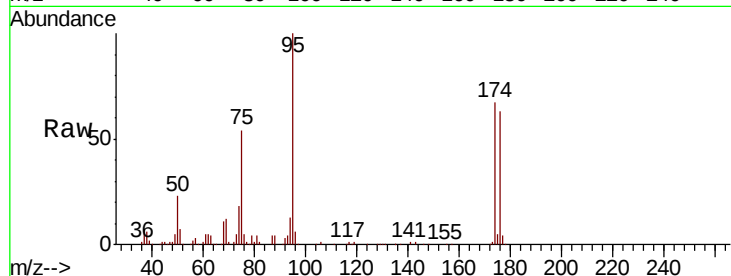
Tot Ion:173 Resp: 382

Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058460.D

Acq: 1 Oct 2019 13:18

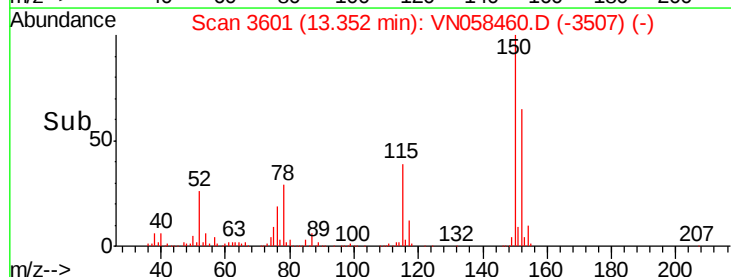
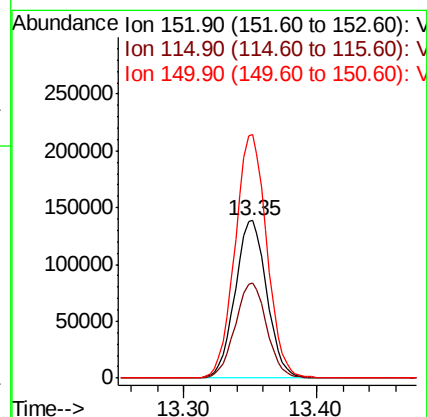
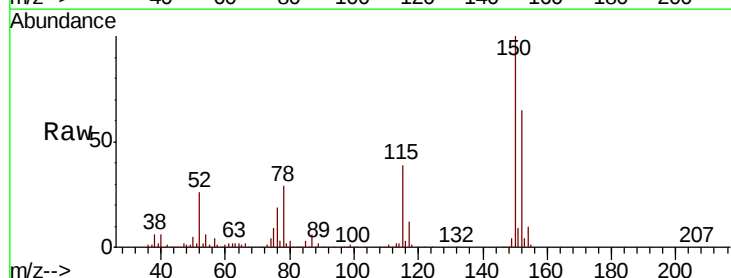
Tgt Ion:152 Resp: 230219

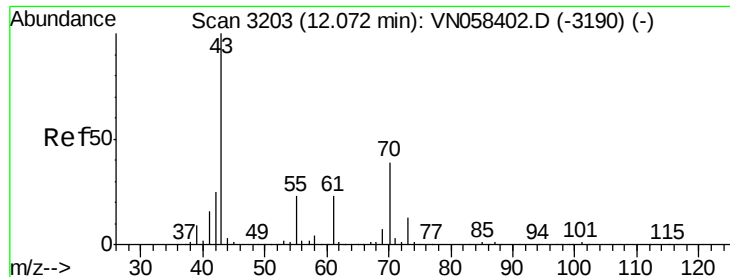
Ion Ratio Lower Upper

152 100

115 60.4 30.0 90.0

150 155.0 0.0 348.2





#74

N-amvl acetate

Concen: 0.561 ug/l

RT: 12.05 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN058460.D

Acq: 1 Oct 2019 13:18

Instrument :

MSVOA_N

ClientSampleId :

PB123500TB

Tot Ion: 43 Resp: 3795

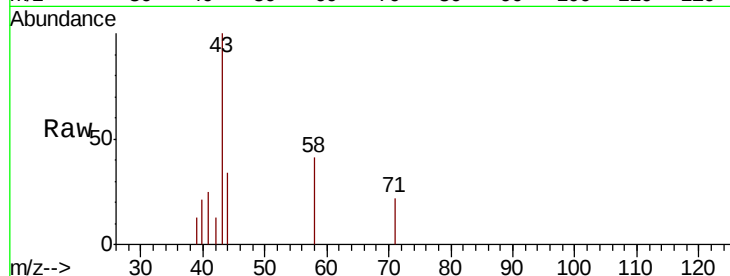
Ion Ratio Lower Upper

43 100

70 0.0 31.4 47.2#

55 0.0 18.2 27.4#

61 0.0 18.3 27.5#

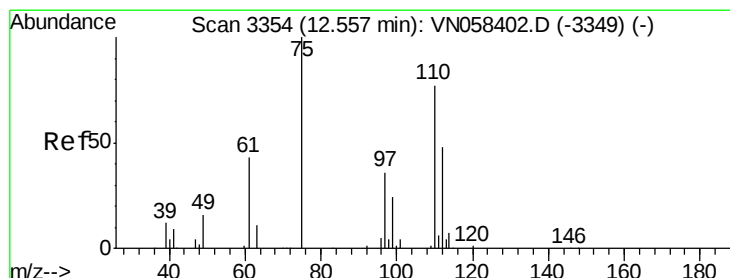
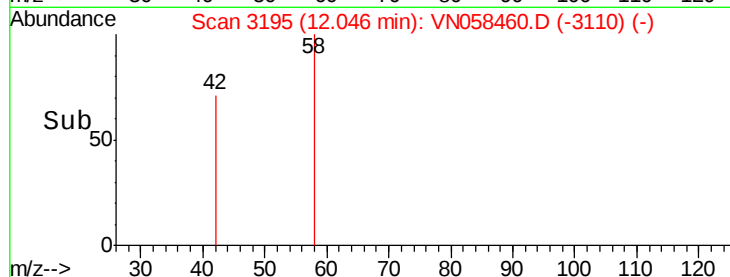
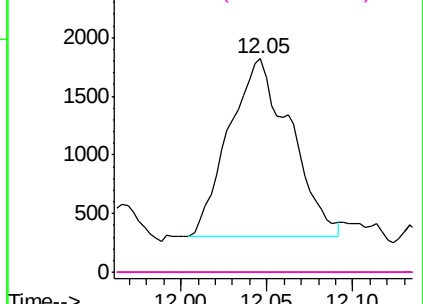


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 35.826 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058460.D

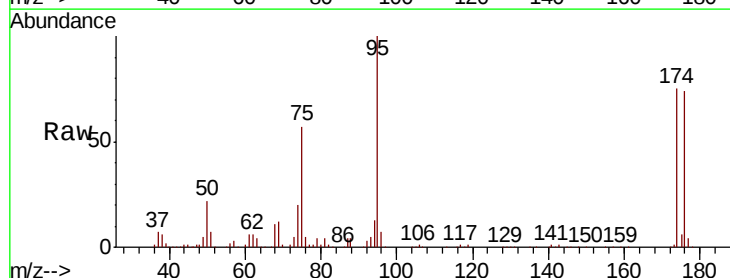
Acq: 1 Oct 2019 13:18

Tgt Ion: 75 Resp: 150647

Ion Ratio Lower Upper

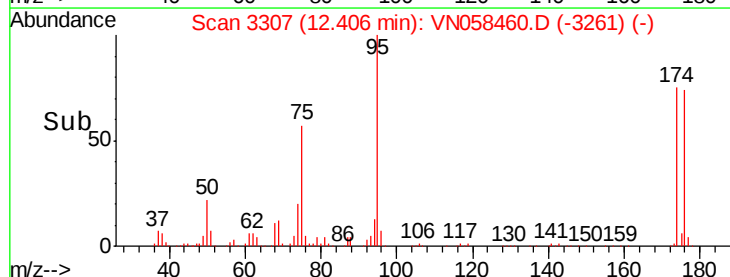
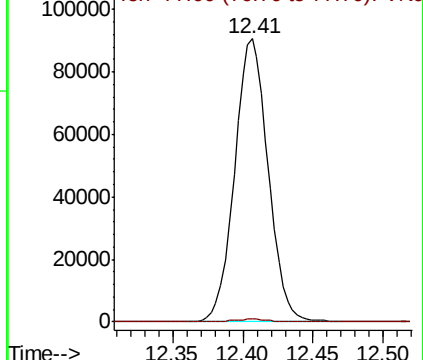
75 100

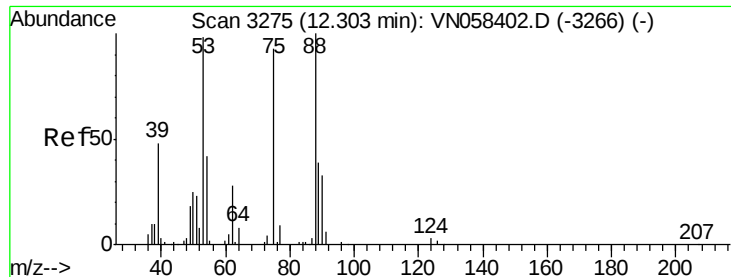
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 108.808 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058460.D

Acq: 1 Oct 2019 13:18

Instrument :

MSVOA_N

ClientSampleId :

PB123500TB

Tot Ion: 75 Resp: 150647

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.0 35.0 52.4#

