

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102419\
 Data File : VN058920.D
 Acq On : 23 Oct 2019 11:44
 Operator : JC/SP
 Sample : PB124186TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB124186TB

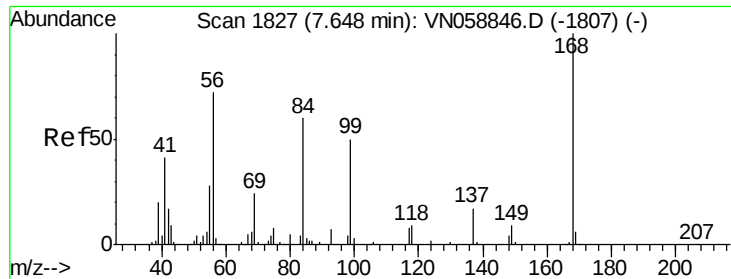
Quant Time: Oct 24 01:10:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	310534	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	496822	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	464026	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	171513	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	231473	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
35) Dibromofluoromethane	7.57	113	164442	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
50) Toluene-d8	10.08	98	642059	50.64	ug/l	0.00
Spiked Amount			Recovery	=	101.28%	
62) 4-Bromofluorobenzene	12.40	95	204547	43.93	ug/l	0.00
Spiked Amount			Recovery	=	87.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	1316	1.741	ug/l #	72
16) Acetone	3.80	43	16120	7.163	ug/l	91
18) Methyl Acetate	4.31	43	3808	0.744	ug/l #	70
20) Methylene Chloride	4.53	84	35832	9.324	ug/l	96
25) 2-Butanone	6.82	43	8607	2.946	ug/l	96
31) Cyclohexane	7.65	56	7439	1.137	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	27426	5.392	ug/l #	50
37) Ethyl Acetate	6.82	43	8607	1.553	ug/l #	73
38) Carbon Tetrachloride	7.65	117	30736	5.866	ug/l #	17
43) Isopropyl Acetate	8.15	43	88752	9.985	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	1678	0.410	ug/l #	44
48) Methyl methacrylate	9.17	41	5554	1.377	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	6073	1.170	ug/l #	87
54) cis-1,3-Dichloropropene	9.90	75	33051	5.237	ug/l #	67
56) Ethyl methacrylate	10.54	69	1971	2.406	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6470	1.010	ug/l #	43
59) 2-Hexanone	10.76	43	103662	25.839	ug/l #	54
71) Bromoform	12.40	173	925	0.335	ug/l #	1
74) N-amyl acetate	12.04	43	3443	0.606	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	111383	28.021	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	4589	0.436	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	111383	72.997	ug/l #	10
95) Naphthalene	15.14	128	319	2.256	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

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ClientSampleId :

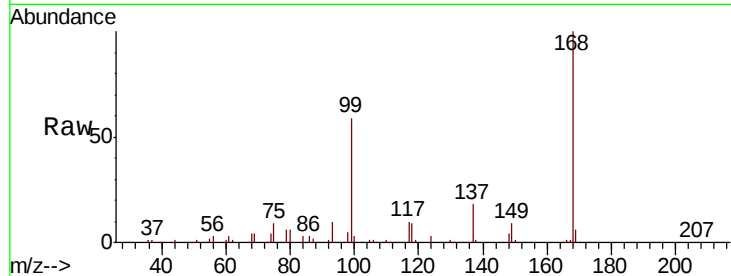
PB124186TB

Tot Ion:168 Resp: 310534

Ion Ratio Lower Upper

168 100

99 59.5 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

150000

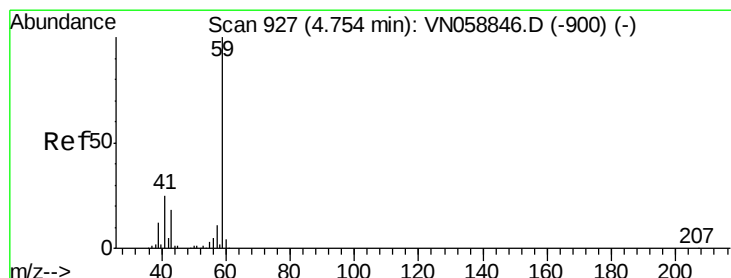
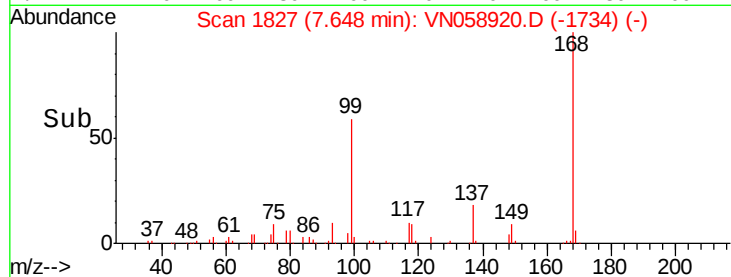
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 1.741 ug/l

RT: 4.75 min Scan# 927

Delta R.T. 0.00 min

Lab File: VN058920.D

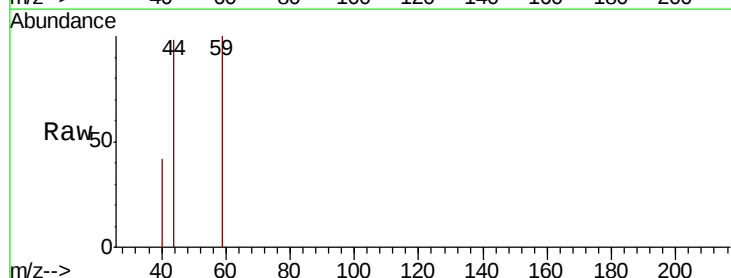
Acq: 23 Oct 2019 11:44

Tgt Ion: 59 Resp: 1316

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.75

600

500

400

300

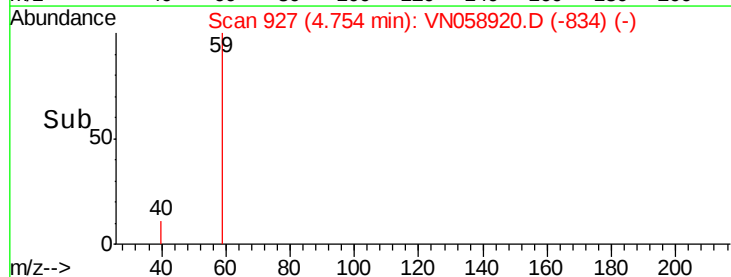
200

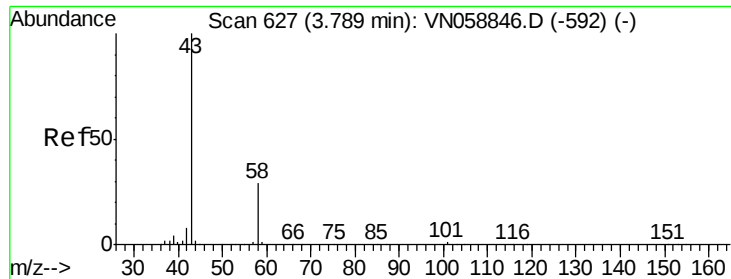
100

0

4.70 4.75 4.80

Time-->





#16

Acetone

Concen: 7.163 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

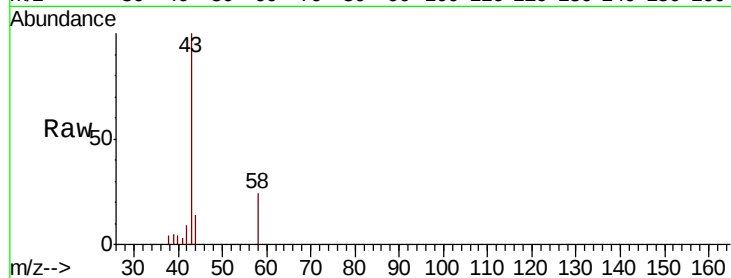
PB124186TB

Tot Ion: 43 Resp: 16120

Ion Ratio Lower Upper

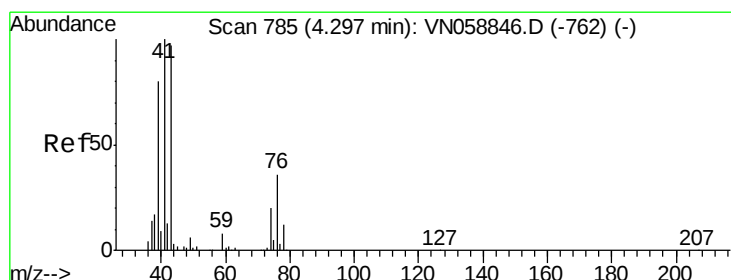
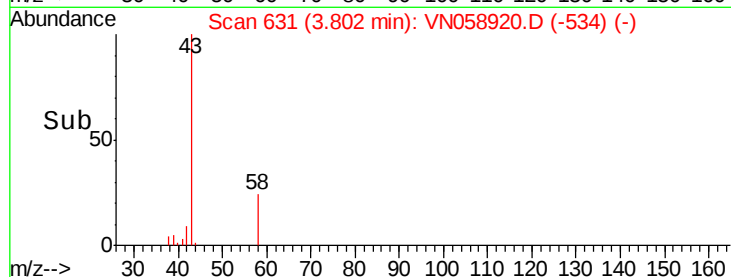
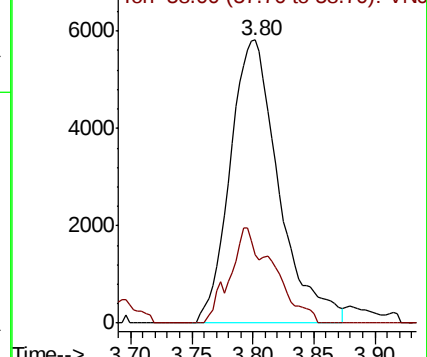
43 100

58 23.9 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.744 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN058920.D

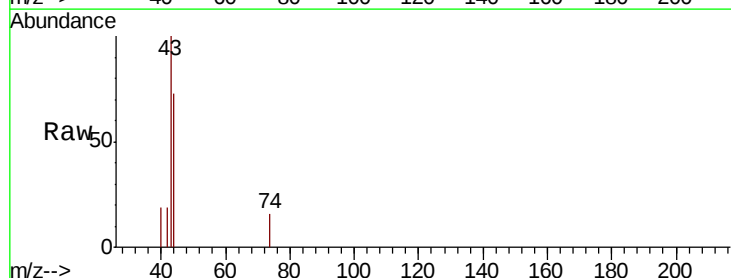
Acq: 23 Oct 2019 11:44

Tgt Ion: 43 Resp: 3808

Ion Ratio Lower Upper

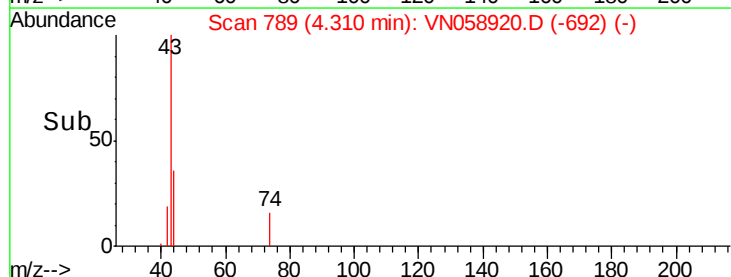
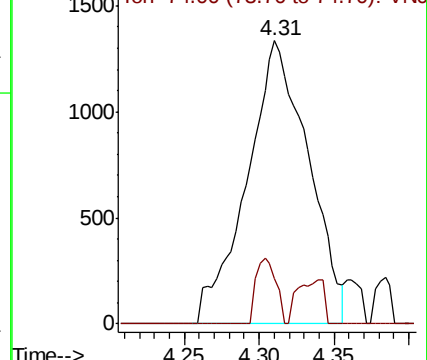
43 100

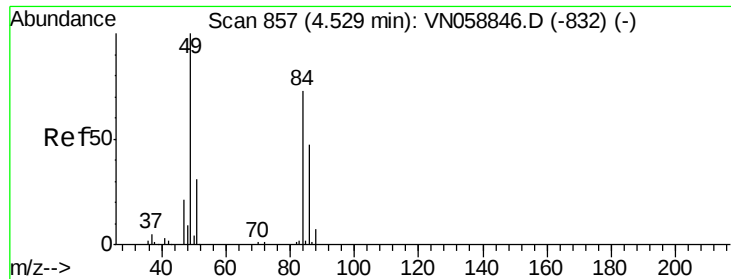
74 7.5 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



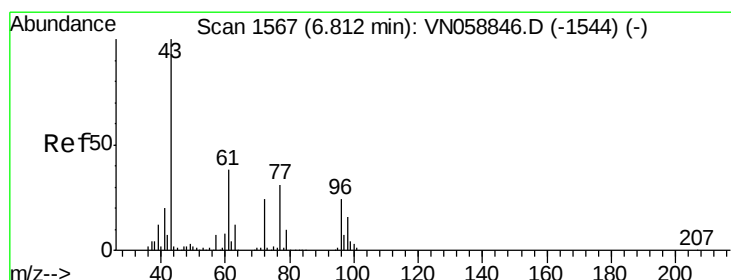
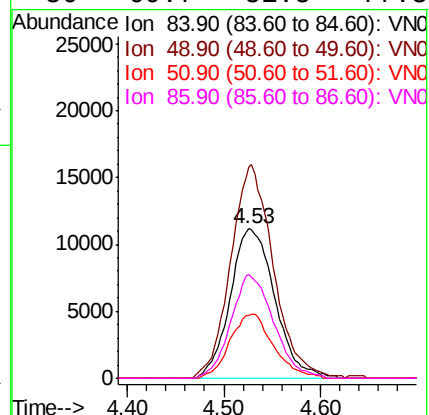
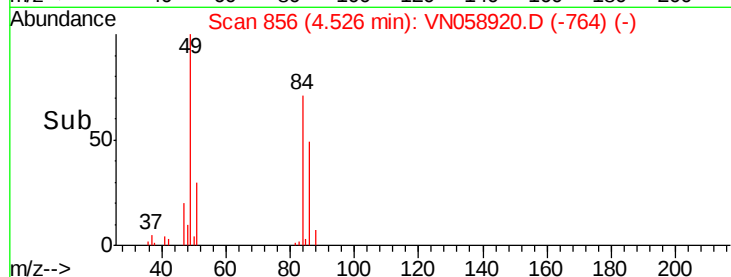
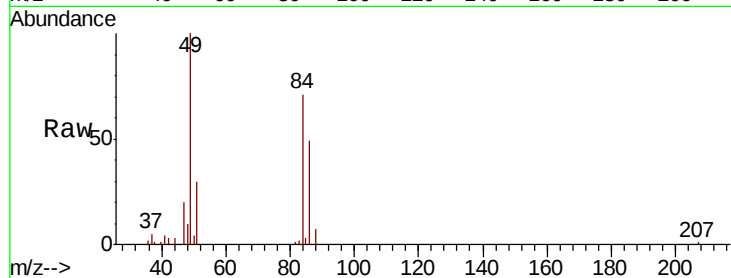


#20
Methvlene Chloride
Concen: 9.324 ug/l
RT: 4.53 min Scan# 856
Delta R.T. -0.00 min
Lab File: VN058920.D
Acq: 23 Oct 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
PB124186TB

Tot Ion: 84 Resp: 35832

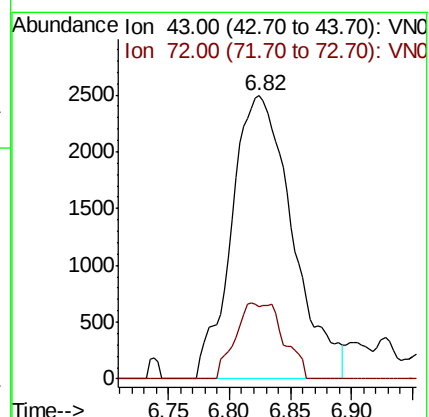
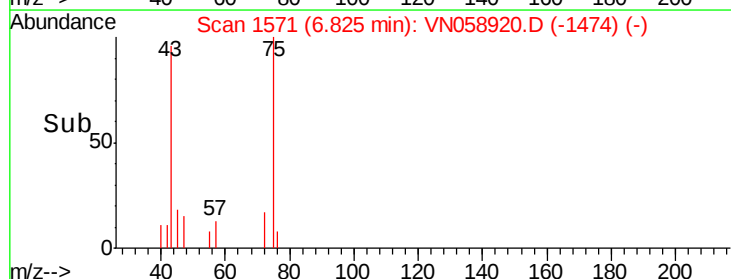
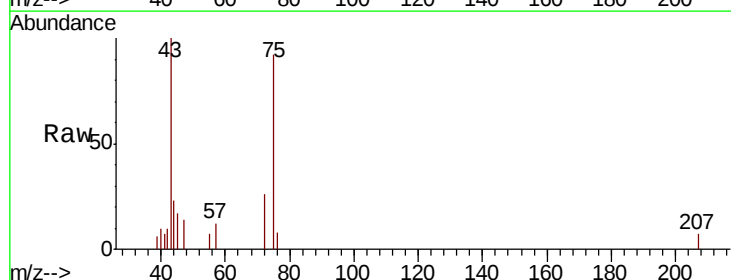
Ion	Ratio	Lower	Upper
84	100		
49	141.1	109.6	164.4
51	42.1	33.8	50.6
86	69.7	51.5	77.3

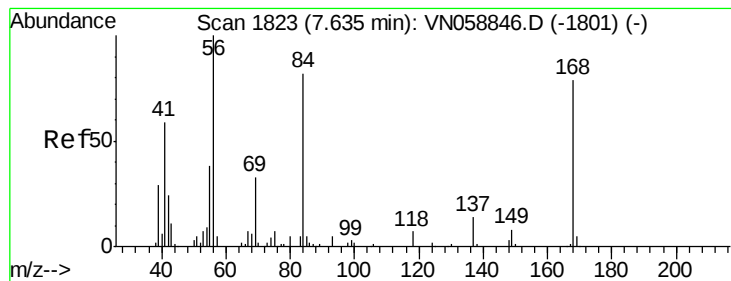


#25
2-Butanone
Concen: 2.946 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN058920.D
Acq: 23 Oct 2019 11:44

Tgt Ion: 43 Resp: 8607

Ion	Ratio	Lower	Upper
43	100		
72	25.6	19.1	28.7





#31

Cyclohexane

Concen: 1.137 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

PB124186TB

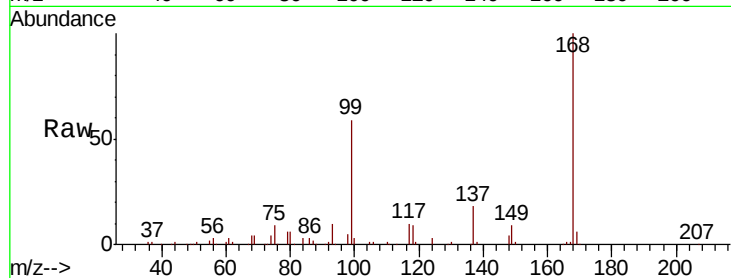
Tot Ion: 56 Resp: 7439

Ion Ratio Lower Upper

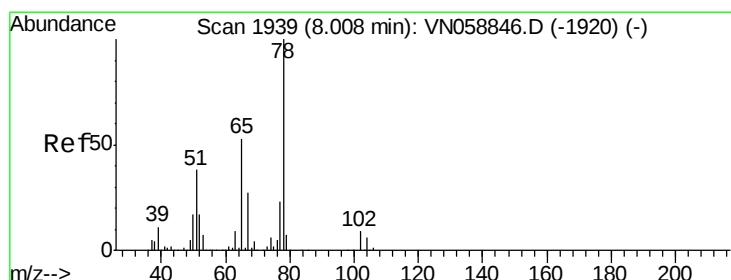
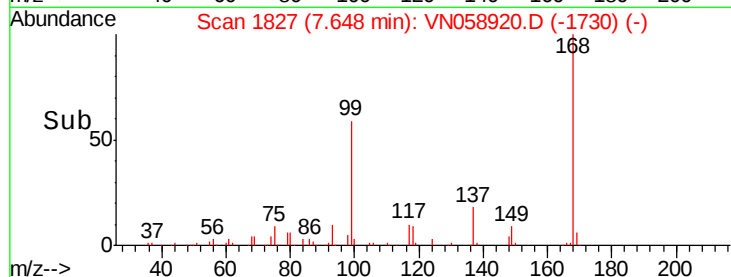
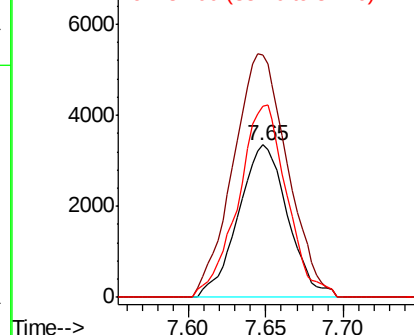
56 100

69 159.5 26.2 39.4#

84 125.5 65.6 98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 50.823 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058920.D

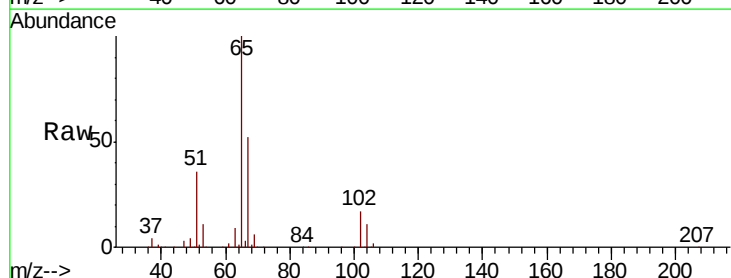
Acq: 23 Oct 2019 11:44

Tgt Ion: 65 Resp: 231473

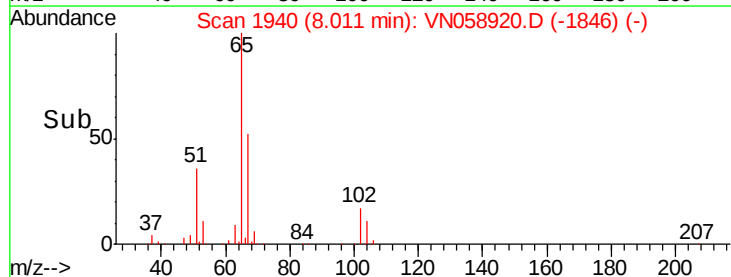
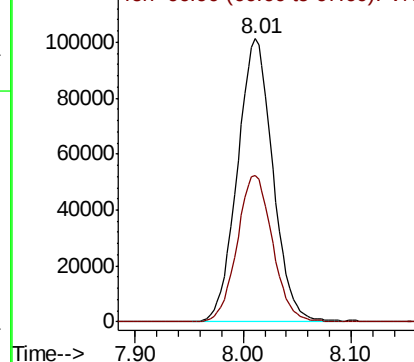
Ion Ratio Lower Upper

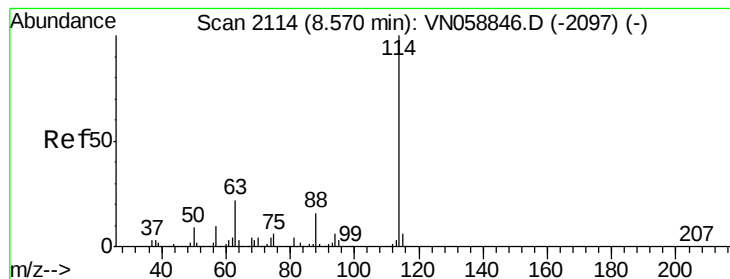
65 100

67 51.9 0.0 103.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

PB124186TB

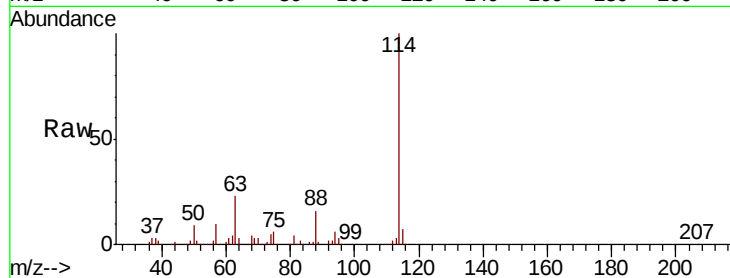
Tot Ion:114 Resp: 496822

Ion Ratio Lower Upper

114 100

63 23.4 0.0 44.4

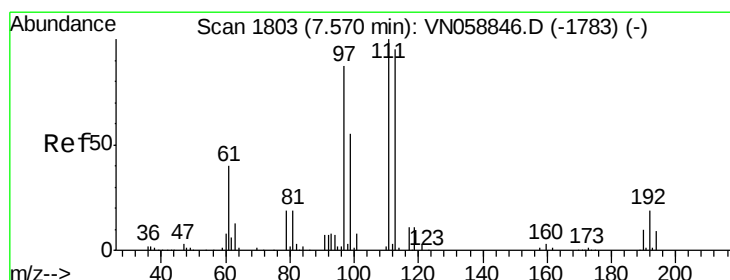
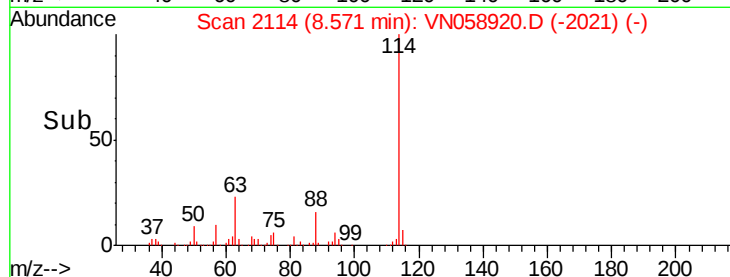
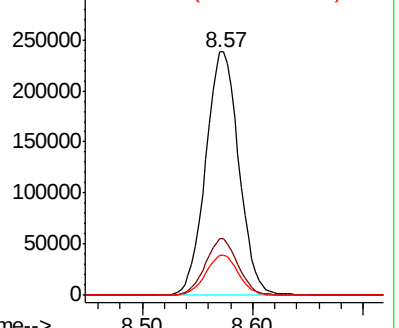
88 16.4 0.0 31.4



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: 50.342 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

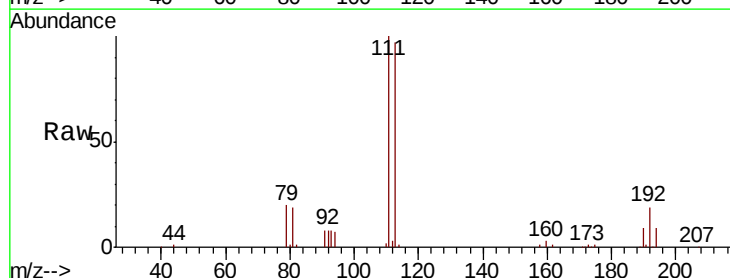
Tgt Ion:113 Resp: 164442

Ion Ratio Lower Upper

113 100

111 102.3 82.0 123.0

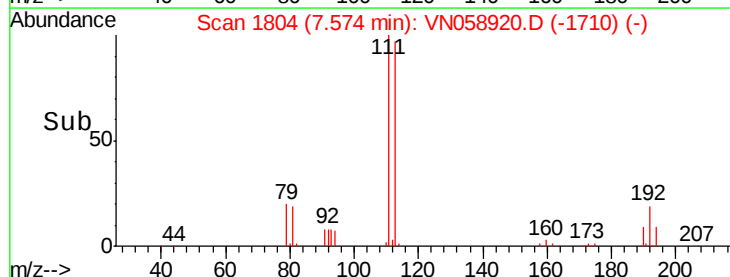
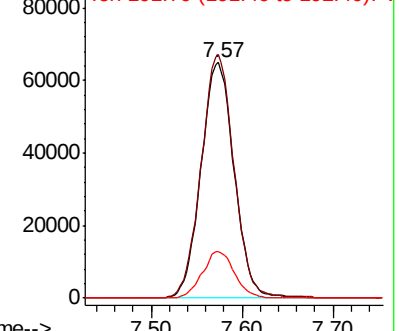
192 19.0 15.0 22.6

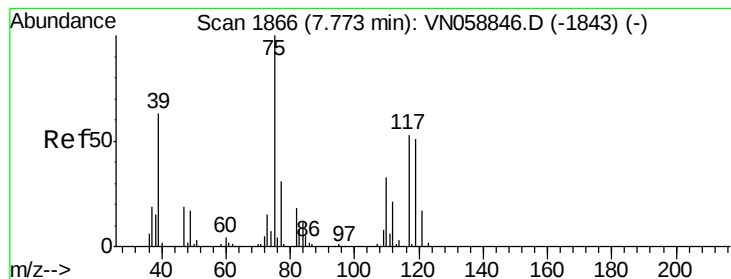


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.392 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

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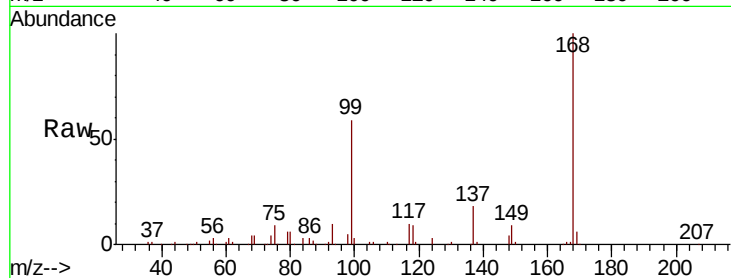
Tot Ion: 75 Resp: 27426

Ion Ratio Lower Upper

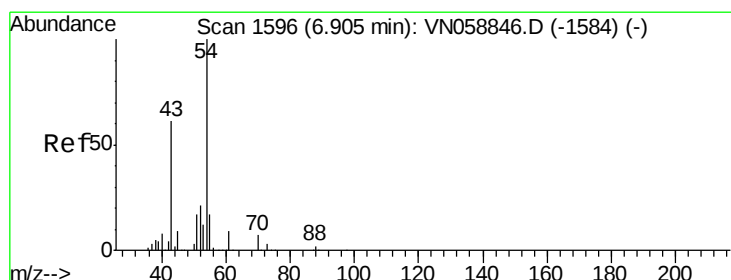
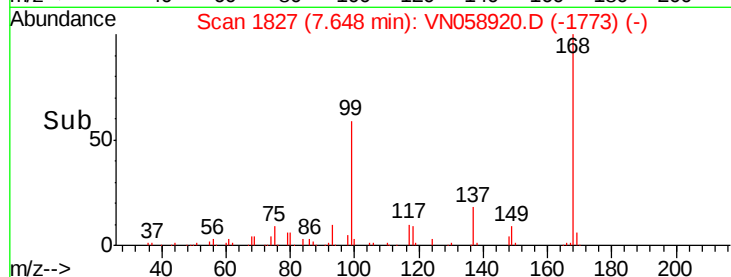
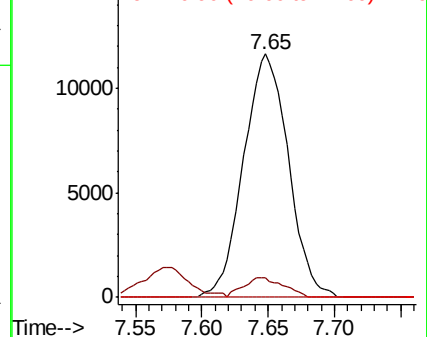
75 100

110 7.2 16.3 48.9#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): VNO
Ion 76.90 (76.60 to 77.60): VNO



#37

Ethyl Acetate

Concen: 1.553 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.08 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

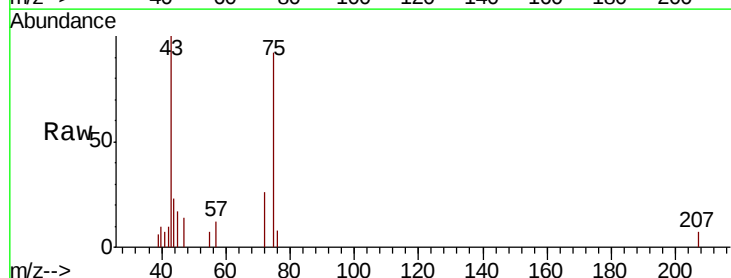
Tgt Ion: 43 Resp: 8607

Ion Ratio Lower Upper

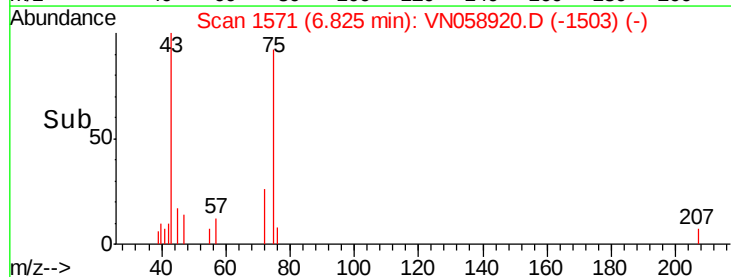
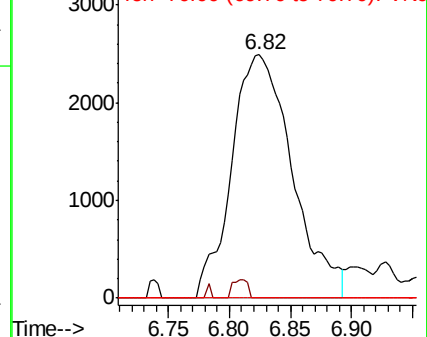
43 100

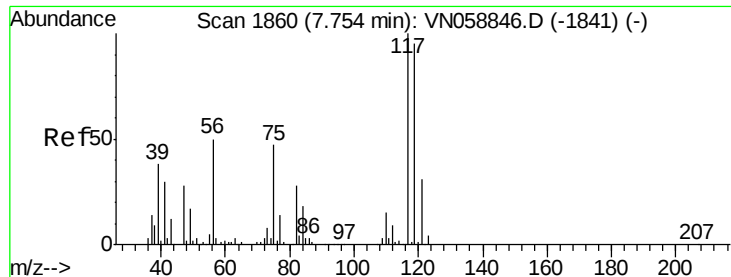
61 1.9 10.5 15.7#

70 0.0 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 70.00 (69.70 to 70.70): VNO





#38

Carbon Tetrachloride

Concen: 5.866 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.10 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

PB124186TB

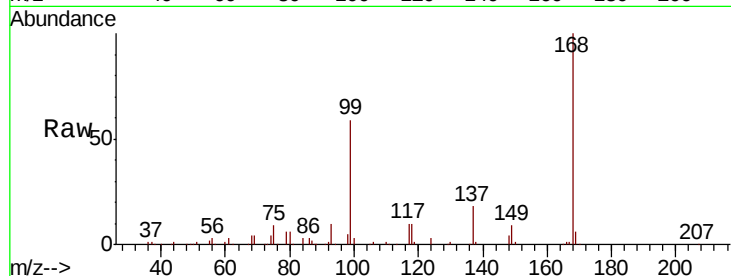
Tot Ion:117 Resp: 30736

Ion Ratio Lower Upper

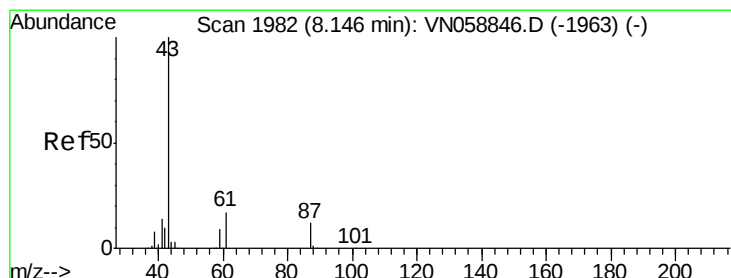
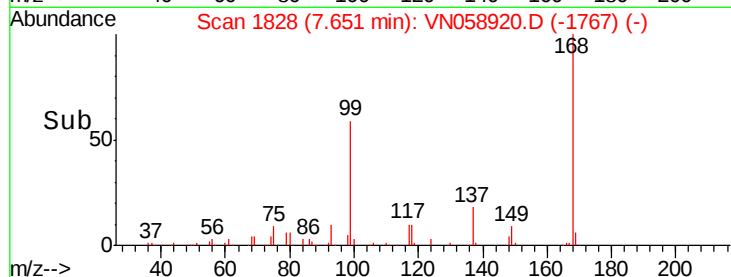
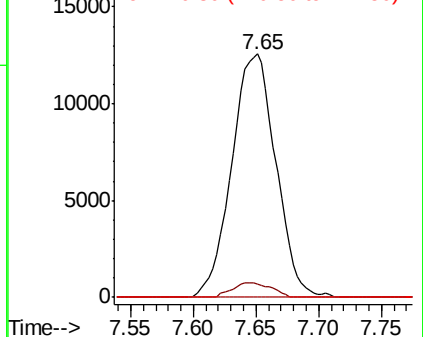
117 100

119 5.4 75.7 113.5#

121 0.0 25.0 37.6#



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: 9.985 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

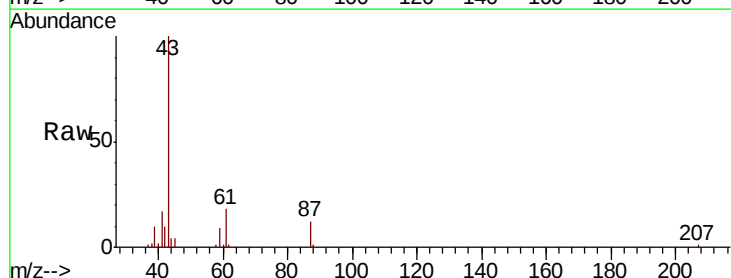
Tgt Ion: 43 Resp: 88752

Ion Ratio Lower Upper

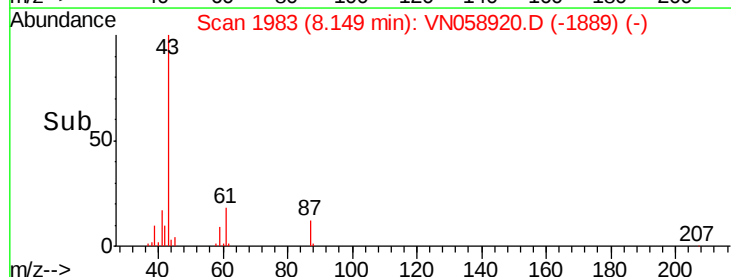
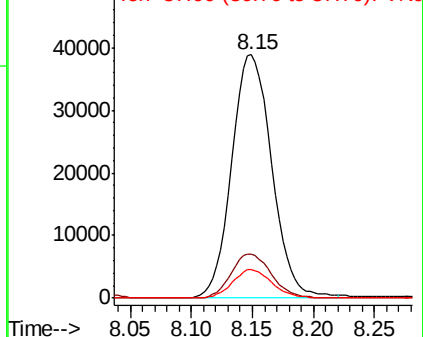
43 100

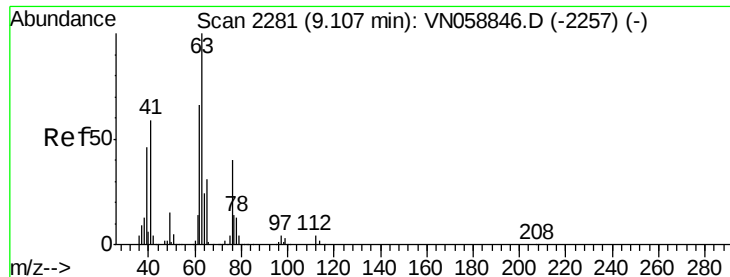
61 18.1 20.2 30.2#

87 11.5 9.5 14.3



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: 0.410 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

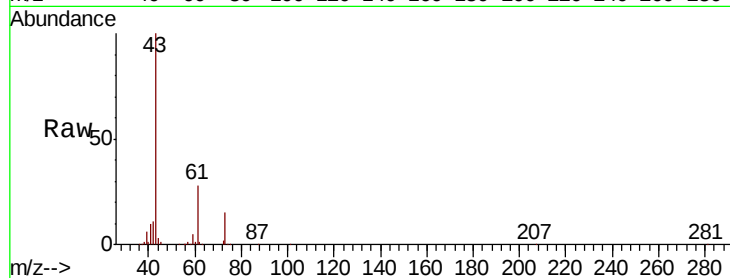
PB124186TB

Tot Ion: 63 Resp: 1678

Ion Ratio Lower Upper

63 100

65 0.0 24.5 36.7#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.26

1000

800

600

400

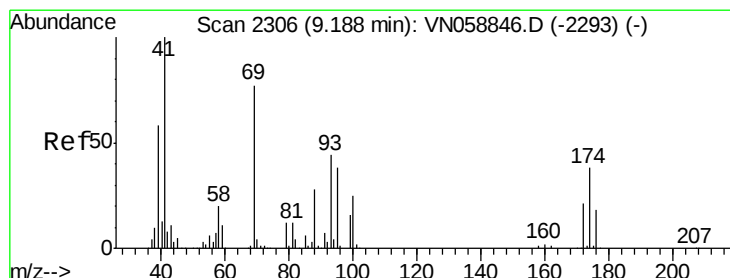
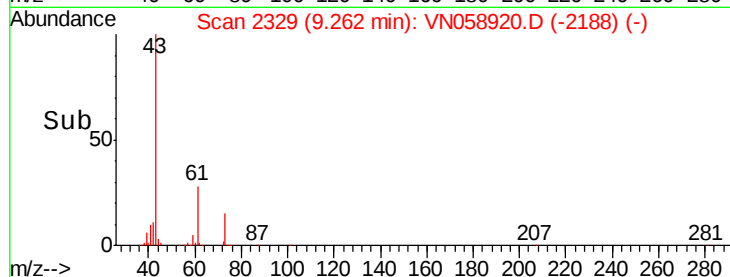
200

0

9.25

9.30

Time-->



#48

Methyl methacrylate

Concen: 1.377 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.02 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

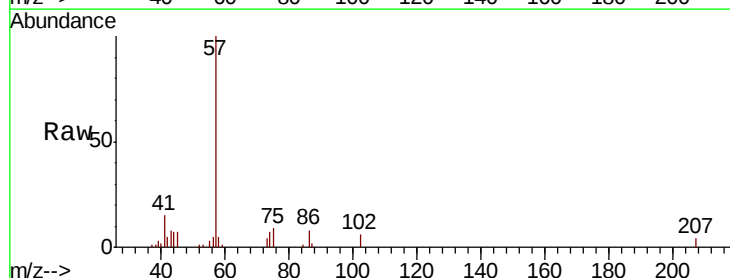
Tgt Ion: 41 Resp: 5554

Ion Ratio Lower Upper

41 100

69 0.0 63.8 95.6#

39 0.0 47.8 71.8#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

80000

60000

40000

20000

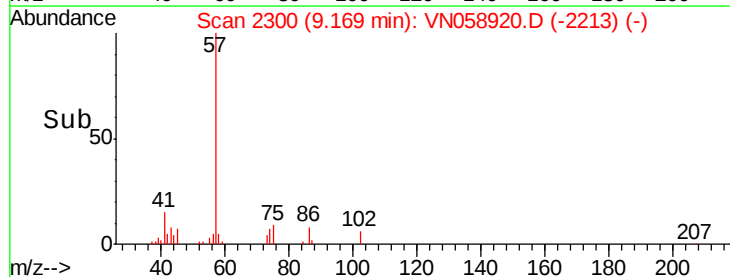
0

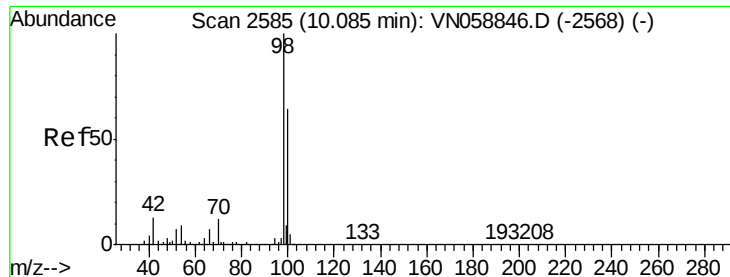
9.10

9.15

9.20

Time-->





#50

Toluene-d8

Concen: 50.636 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

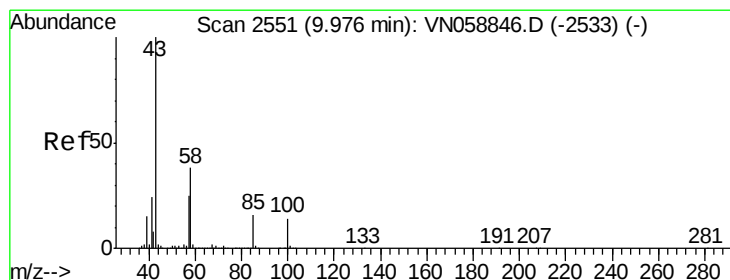
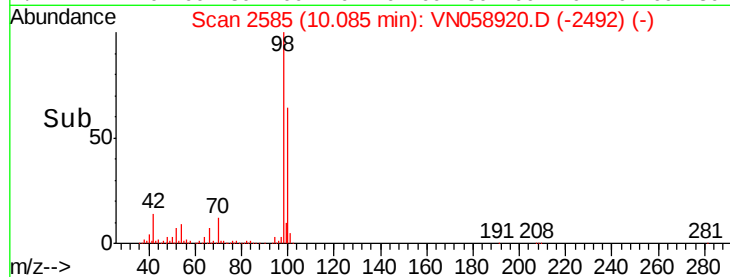
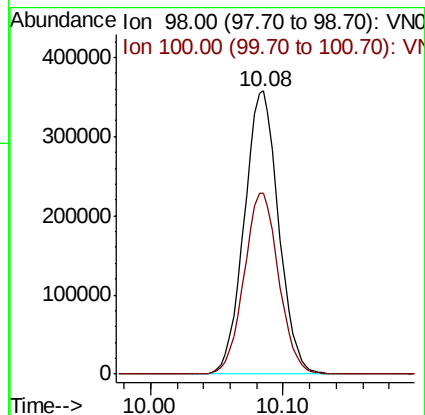
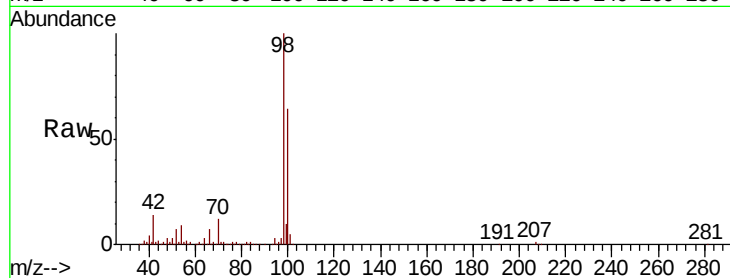
PB124186TB

Tot Ion: 98 Resp: 642059

Ion Ratio Lower Upper

98 100

100 64.4 51.4 77.2



#51

4-Methyl-2-Pentanone

Concen: 1.170 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN058920.D

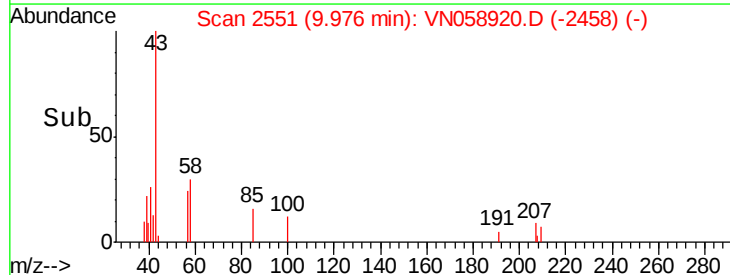
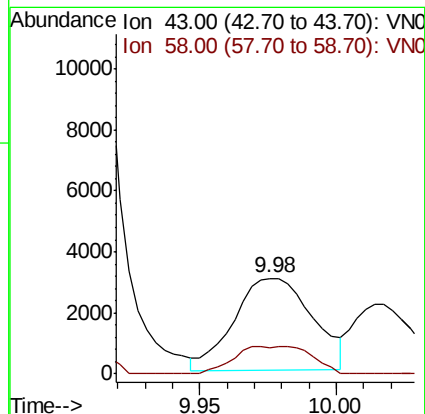
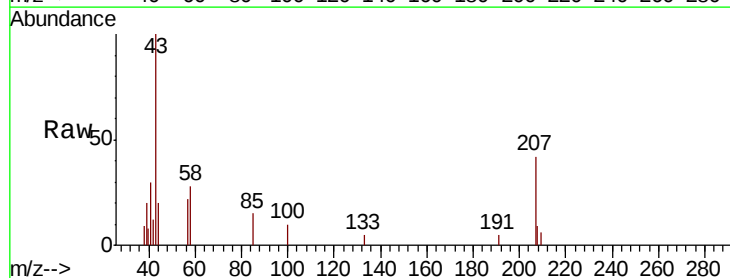
Acq: 23 Oct 2019 11:44

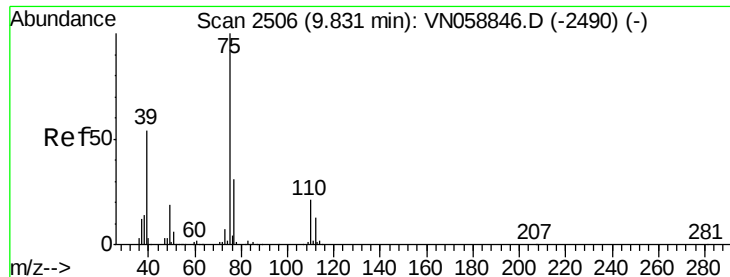
Tgt Ion: 43 Resp: 6073

Ion Ratio Lower Upper

43 100

58 29.4 29.9 44.9#



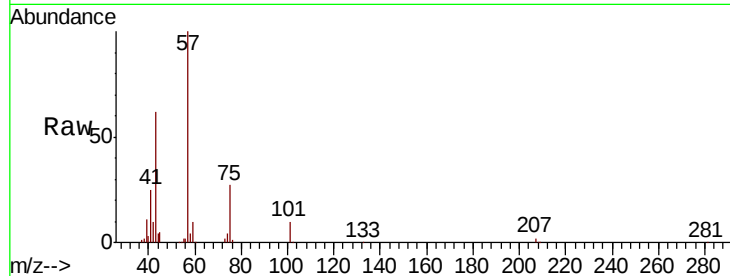


#54

cis-1,3-Dichloropropene
Concen: 5.237 ug/l
RT: 9.90 min Scan# 2527
Delta R.T. 0.07 min
Lab File: VN058920.D
Acq: 23 Oct 2019 11:44

Instrument :
MSVOA_N
ClientSampled :
PB124186TB

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.7	37.1#
39	40.2	43.5	65.3#

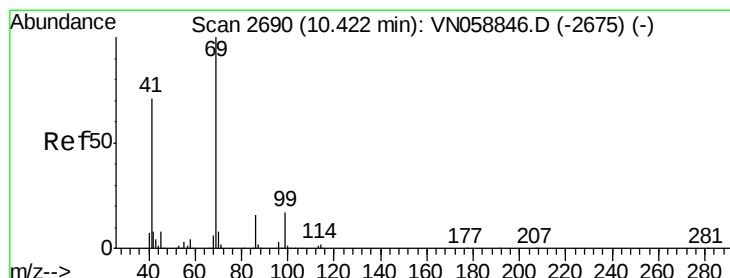
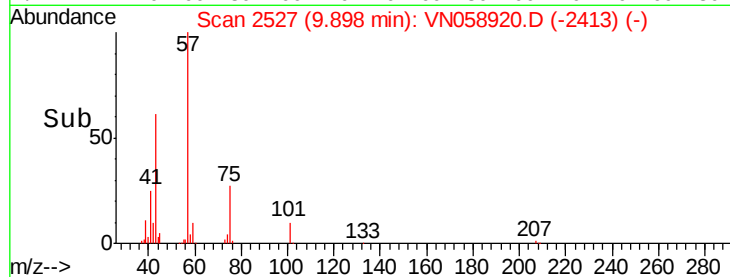
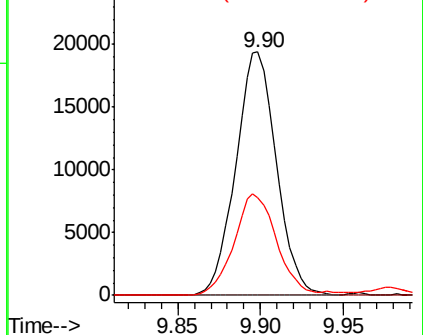


Abundance

Ion 74.90 (74.60 to 75.60): VNO

Ion 76.90 (76.60 to 77.60): VNO

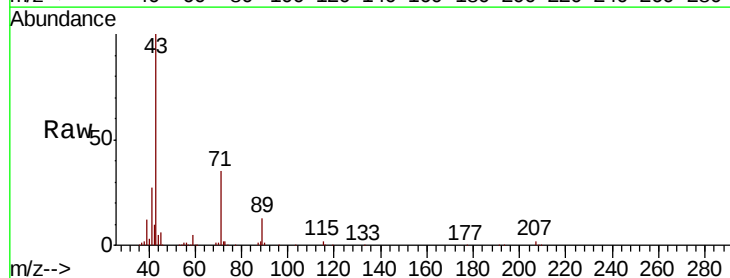
Ion 39.00 (38.70 to 39.70): VNO



#56

Ethyl methacrylate
Concen: 2.406 ug/l
RT: 10.54 min Scan# 2725
Delta R.T. 0.11 min
Lab File: VN058920.D
Acq: 23 Oct 2019 11:44

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4016.7	57.2	85.8#
39	1894.3	31.0	46.4#

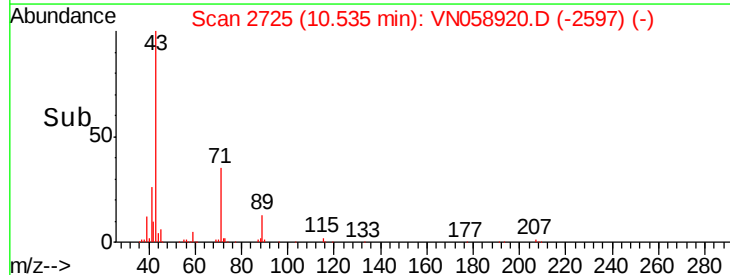
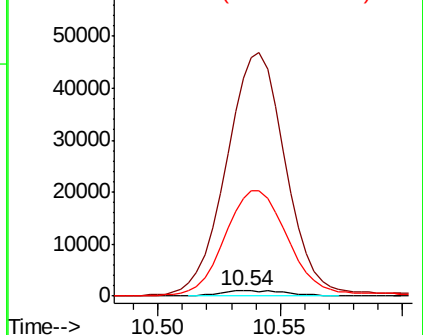


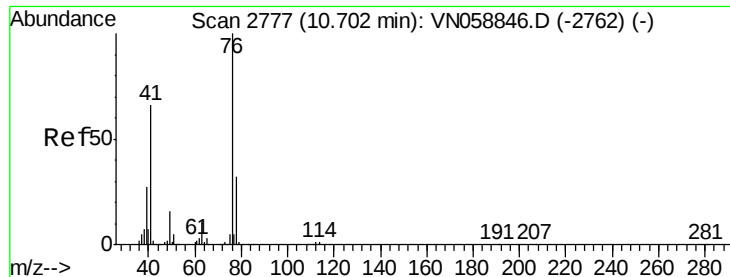
Abundance

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

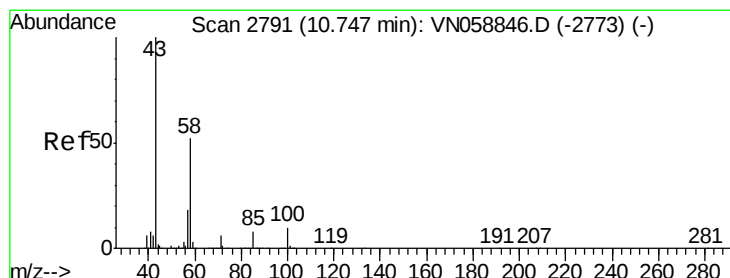
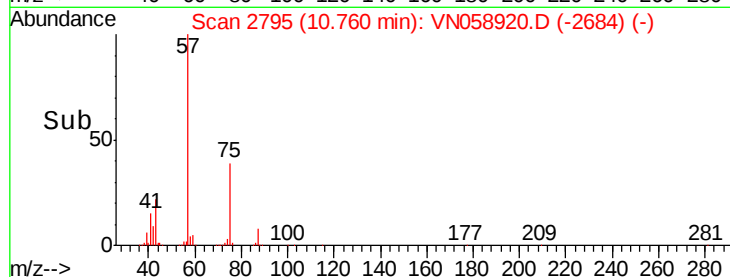
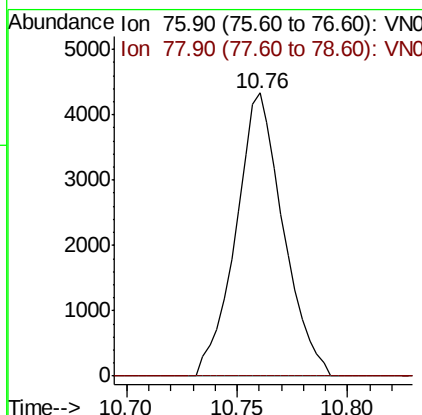
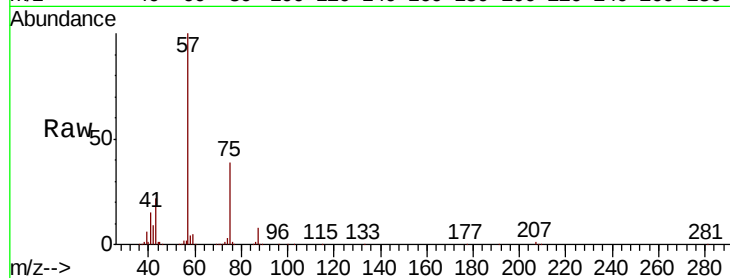




#57
 1,3-Dichloropropane
 Concen: 1.010 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.06 min
 Lab File: VN058920.D
 Acq: 23 Oct 2019 11:44

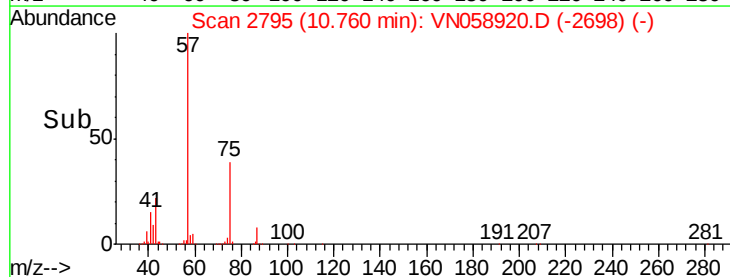
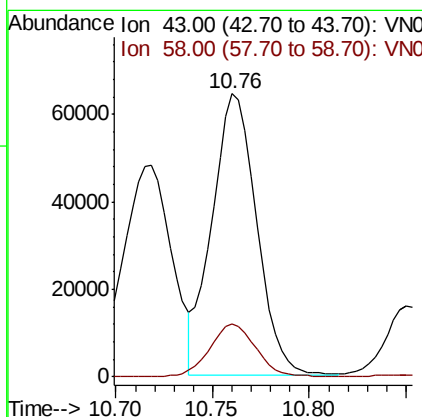
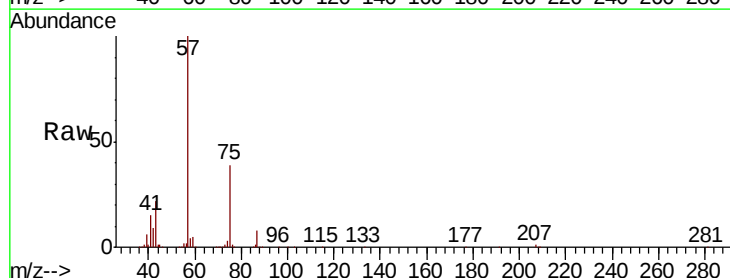
Instrument :
 MSVOA_N
 ClientSampleId :
 PB124186TB

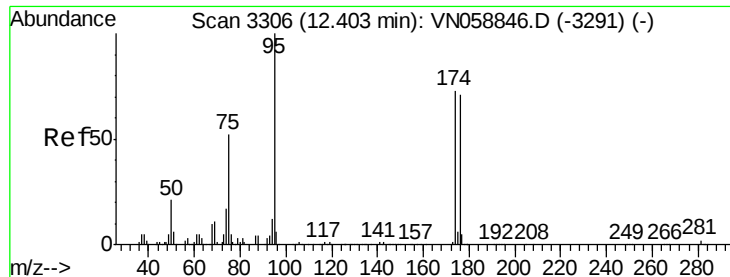
Tot Ion: 76 Resp: 6470
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#



#59
 2-Hexanone
 Concen: 25.839 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: VN058920.D
 Acq: 23 Oct 2019 11:44

Tgt Ion: 43 Resp: 103662
 Ion Ratio Lower Upper
 43 100
 58 19.6 25.9 77.7#





#62

4-Bromofluorobenzene

Concen: 43.928 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

PB124186TB

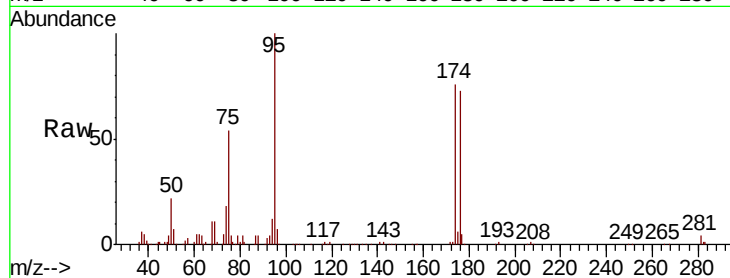
Tot Ion: 95 Resp: 204547

Ion Ratio Lower Upper

95 100

174 76.3 0.0 147.6

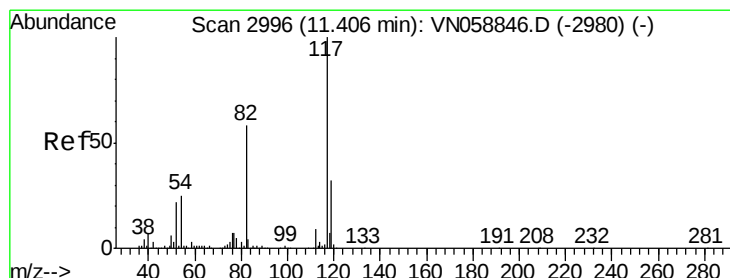
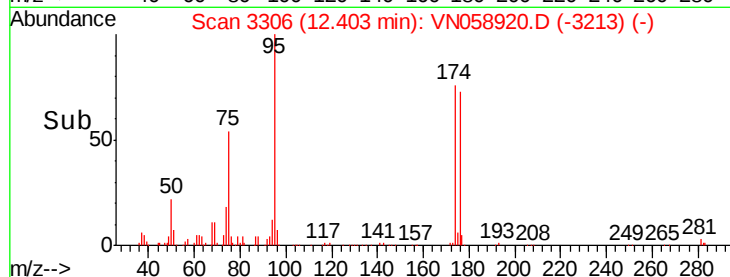
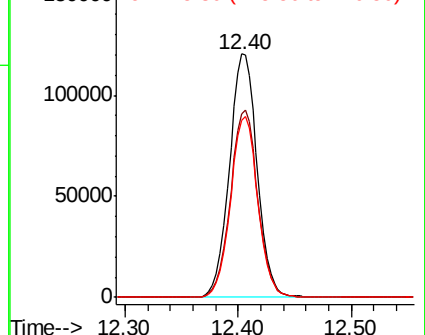
176 73.4 0.0 143.2



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: VN058920.D

Acq: 23 Oct 2019 11:44

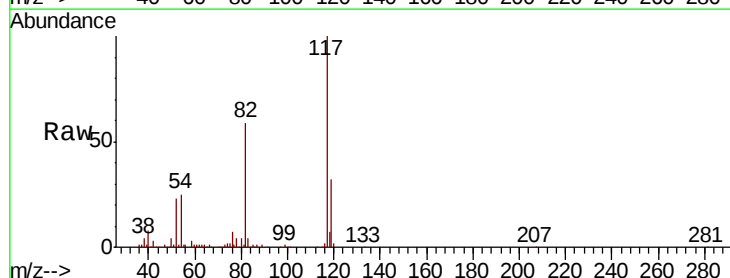
Tgt Ion: 117 Resp: 464026

Ion Ratio Lower Upper

117 100

82 58.7 46.6 69.8

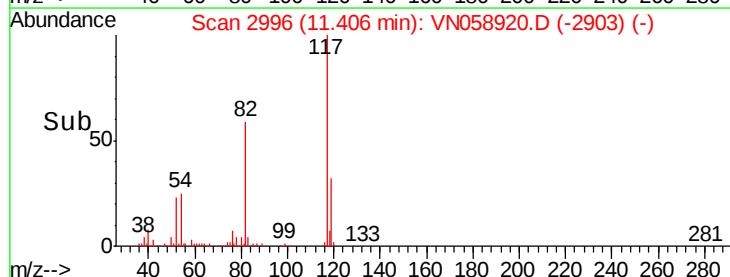
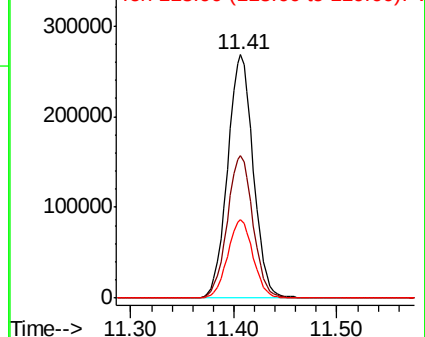
119 32.2 25.6 38.4

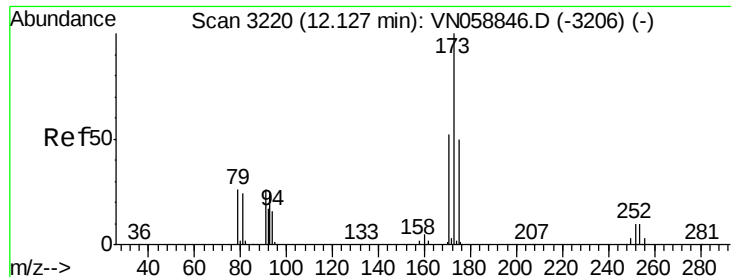


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

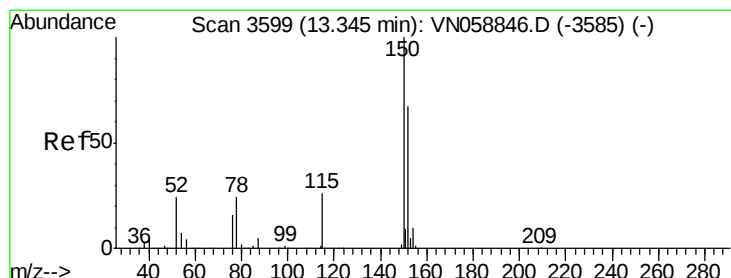
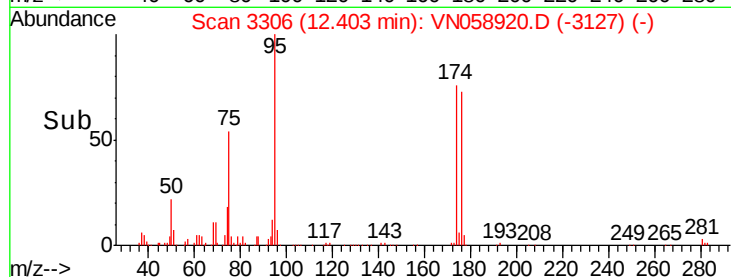
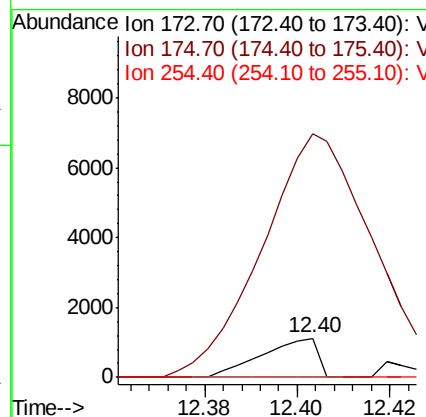
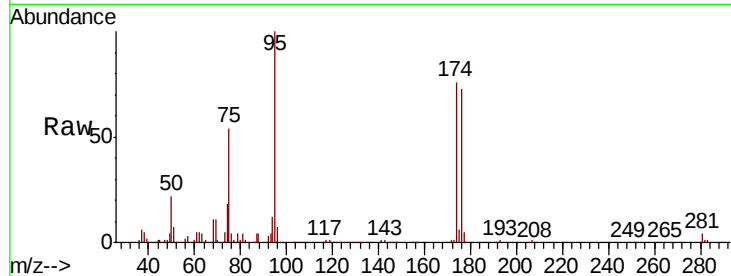




#71
Bromoform
Concen: 0.335 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN058920.D
Acq: 23 Oct 2019 11:44

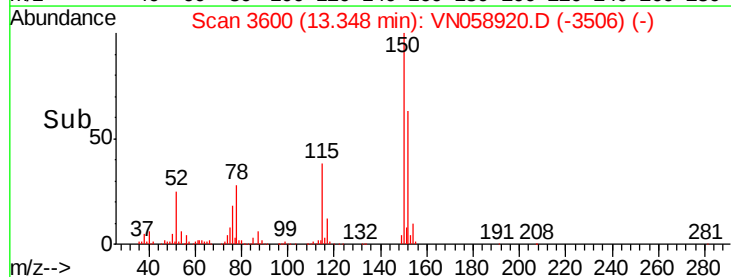
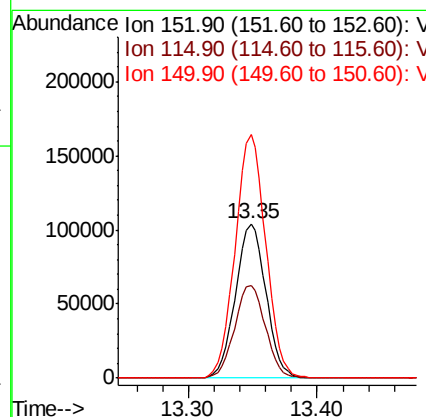
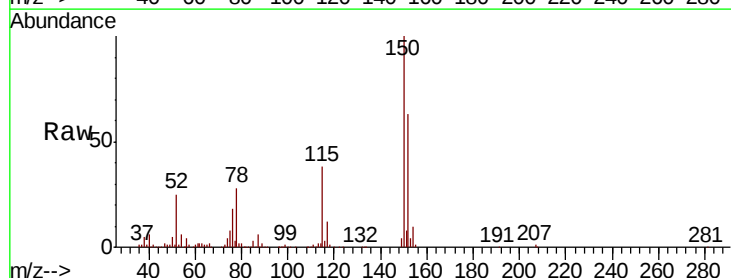
Instrument :
MSVOA_N
ClientSampleId :
PB124186TB

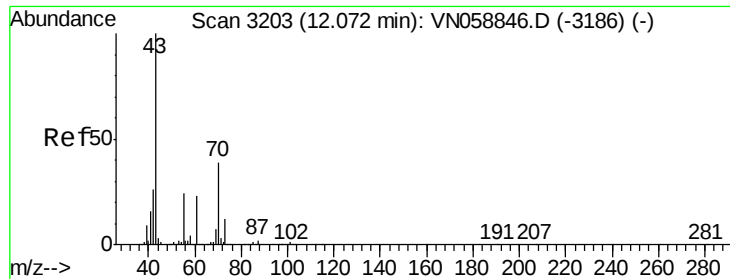
Tot Ion:173 Resp: 925
Ion Ratio Lower Upper
173 100
175 1004.8 24.7 74.1#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058920.D
Acq: 23 Oct 2019 11:44

Tgt Ion:152 Resp: 171513
Ion Ratio Lower Upper
152 100
115 60.2 30.5 91.5
150 157.6 0.0 344.4





#74

N-amvl acetate

Concen: 0.606 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

Instrument :

MSVOA_N

ClientSampled :

PB124186TB

Tot Ion: 43 Resp: 3443

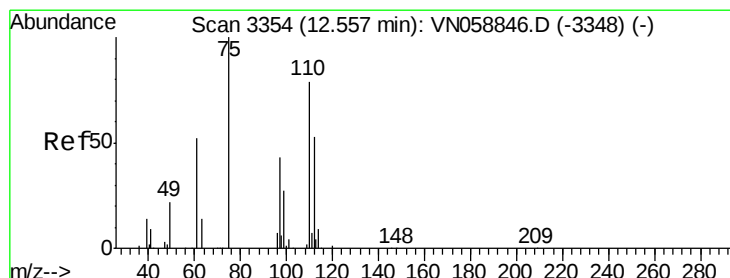
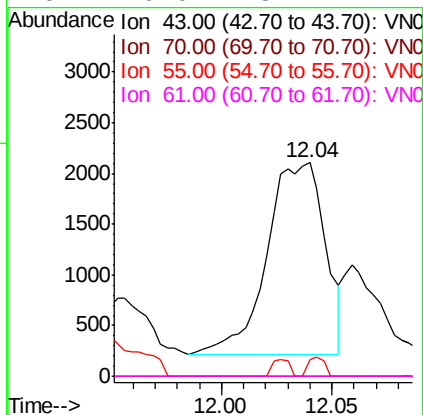
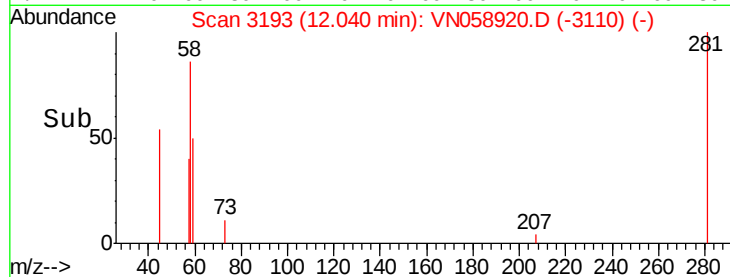
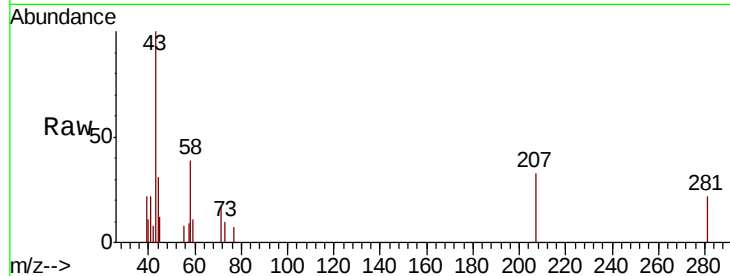
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 2.8 19.7 29.5#

61 0.0 18.2 27.4#



#76

1,2,3-Trichloropropane

Concen: 28.021 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058920.D

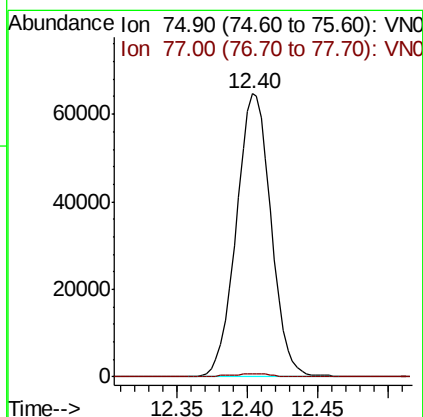
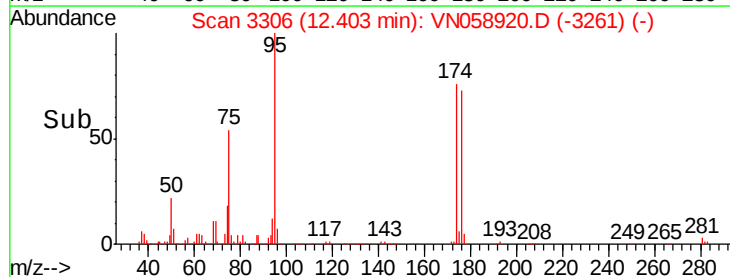
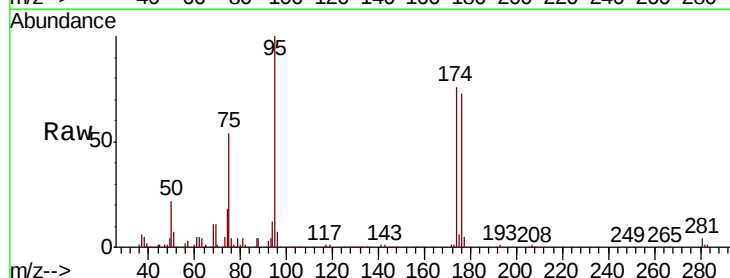
Acq: 23 Oct 2019 11:44

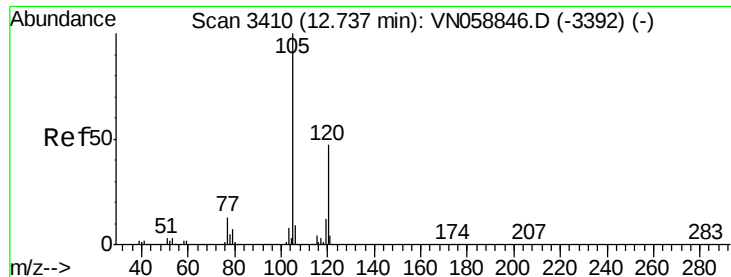
Tgt Ion: 75 Resp: 111383

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#

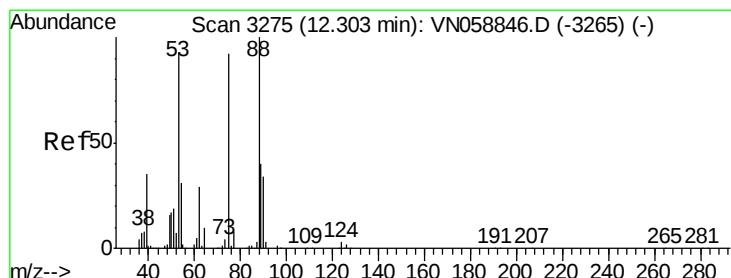
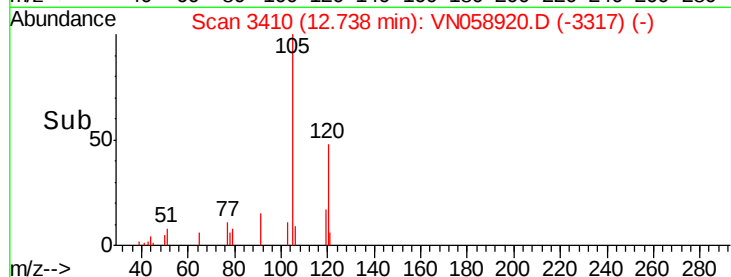
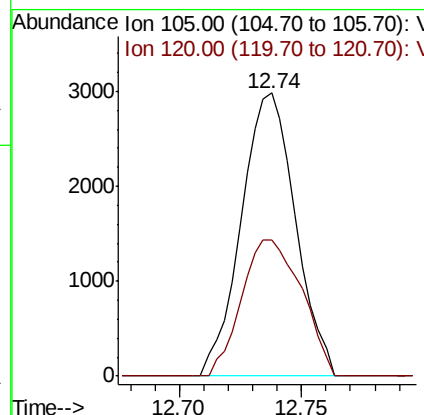
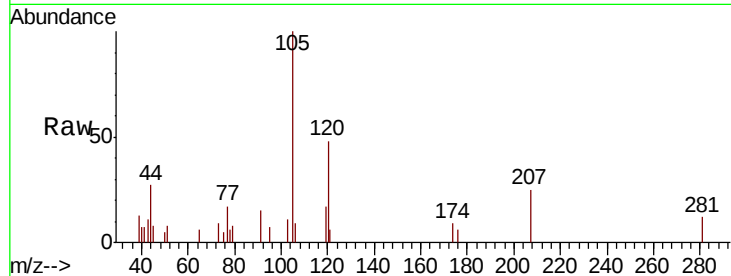




#80
 1,3,5-Trimethylbenzene
 Concen: 0.436 ug/l
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.00 min
 Lab File: VN058920.D
 Acq: 23 Oct 2019 11:44

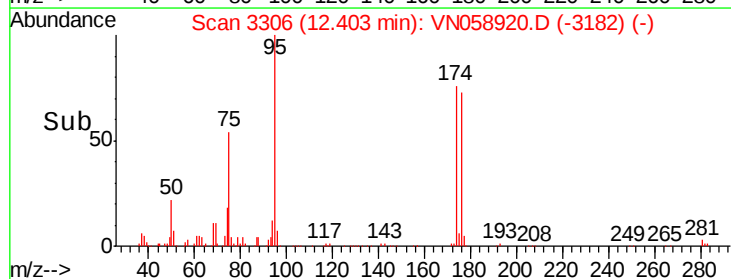
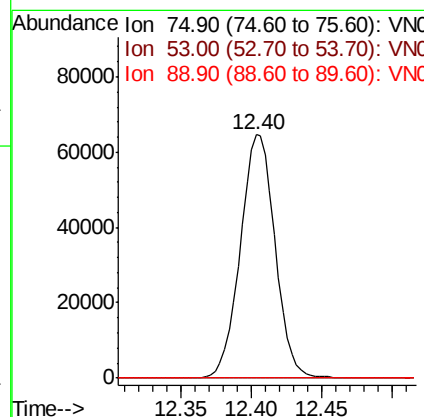
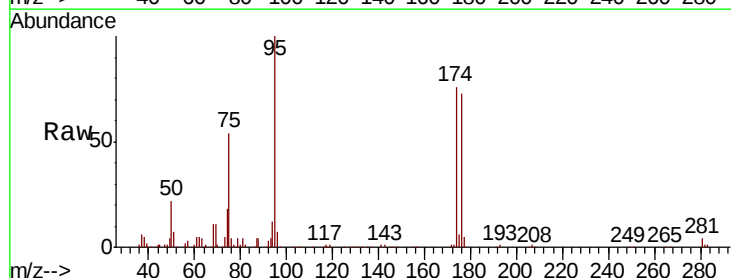
Instrument :
 MSVOA_N
 ClientSampled :
 PB124186TB

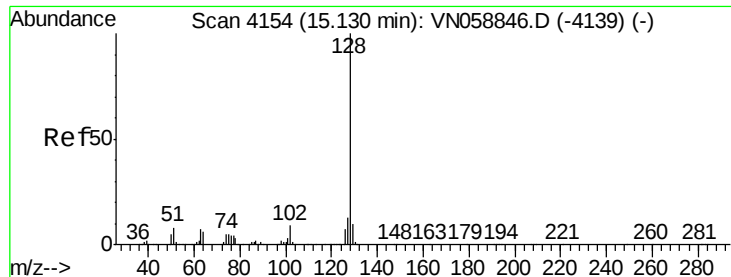
Tot Ion: 105 Resp: 4589
 Ion Ratio Lower Upper
 105 100
 120 53.4 23.8 71.5



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.997 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN058920.D
 Acq: 23 Oct 2019 11:44

Tgt Ion: 75 Resp: 111383
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.6 118.0#
 89 0.0 35.4 53.0#





#95

Naphthalene

Concen: 2.256 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN058920.D

Acq: 23 Oct 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

PB124186TB

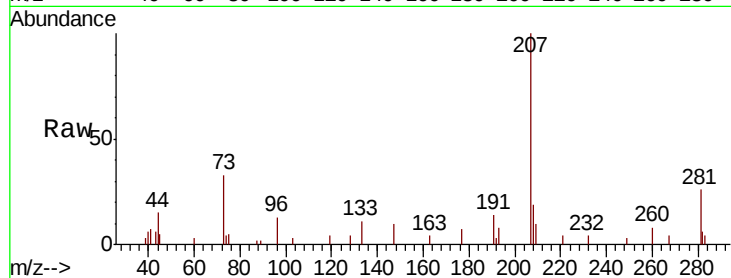
Tot Ion:128 Resp: 319

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

