

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121118\
 Data File : VN052797.D
 Acq On : 11 Dec 2018 13:02
 Operator : MD\SY
 Sample : PB115504ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115504ZHE#02

Quant Time: Dec 12 00:27:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1193446	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1845632	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1651365	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	684773	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	619038	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
35) Dibromofluoromethane	7.59	113	513413	45.12	ug/l	0.00
Spiked Amount			Recovery	=	90.24%	
50) Toluene-d8	10.09	98	2271710	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
62) 4-Bromofluorobenzene	12.40	95	737085	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	

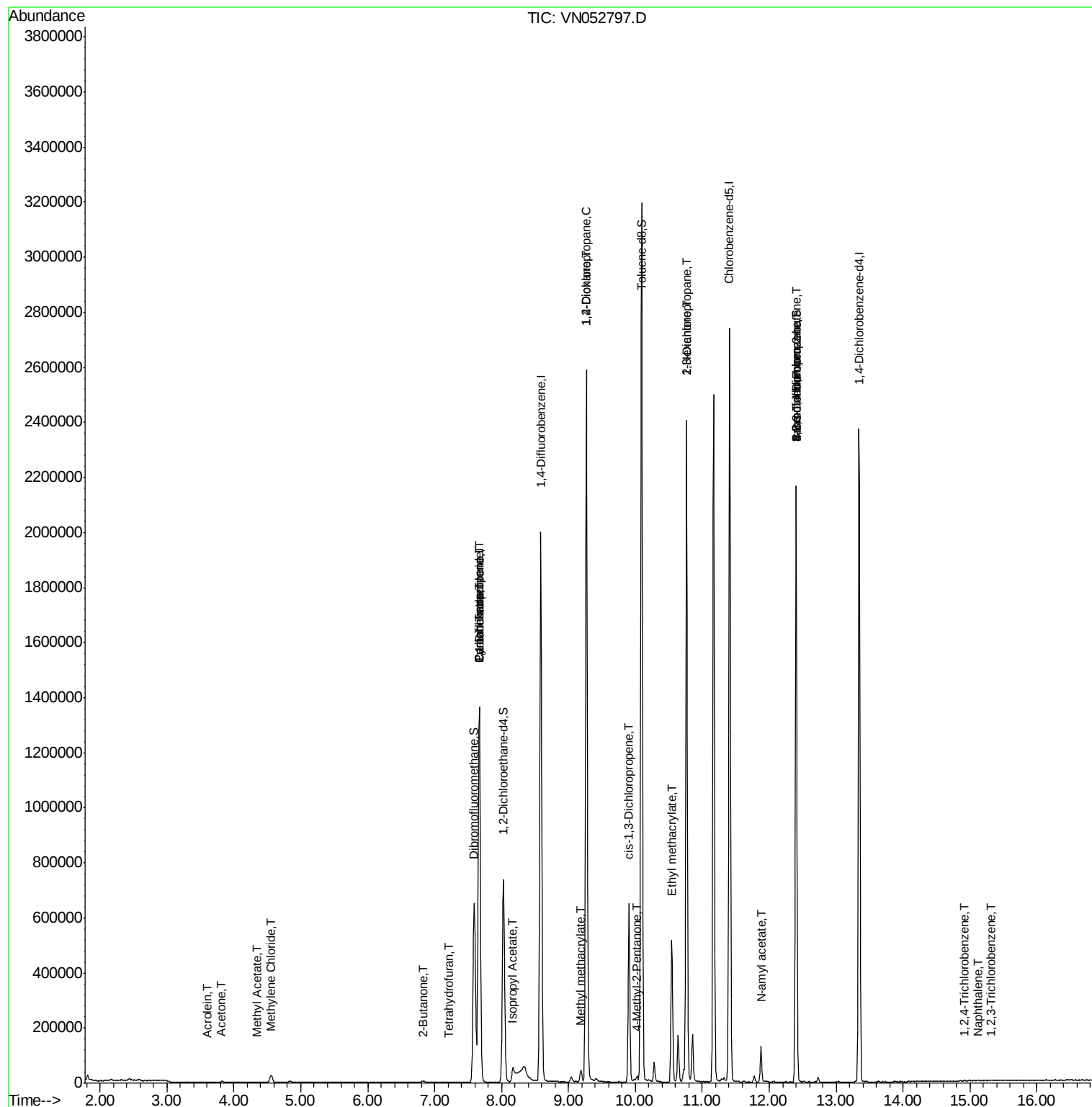
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	364	0.322	ug/l #	14
16) Acetone	3.82	43	10354	3.021	ug/l #	88
18) Methyl Acetate	4.34	43	4407	0.448	ug/l #	62
20) Methylene Chloride	4.55	84	19126	1.426	ug/l	97
25) 2-Butanone	6.84	43	2015	0.415	ug/l	96
29) Tetrahydrofuran	7.21	42	649	0.207	ug/l #	66
31) Cyclohexane	7.66	56	20405	0.551	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	80143	4.598	ug/l #	50
38) Carbon Tetrachloride	7.67	117	105026	6.657	ug/l #	16
43) Isopropyl Acetate	8.17	43	73948	4.108	ug/l #	74
45) 1,2-Dichloropropane	9.27	63	3105	0.225	ug/l #	43
48) Methyl methacrylate	9.18	41	14711	1.567	ug/l #	13
49) 1,4-Dioxane	9.27	88	131	1.345	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	16120	1.596	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	120410	6.284	ug/l #	62
56) Ethyl methacrylate	10.54	69	1622	2.795	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	24645	1.286	ug/l #	43
59) 2-Hexanone	10.76	43	338663	49.963	ug/l #	51
71) Bromoform	12.40	173	4169	0.532	ug/l #	1
74) N-amyl acetate	11.88	43	40670	2.996	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	350517	33.194	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	350517	110.853	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	599	2.876	ug/l #	74
95) Naphthalene	15.13	128	1690	3.490	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	342	2.756	ug/l #	1

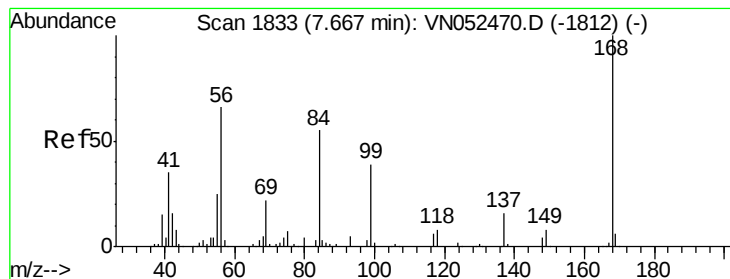
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121118\
Data File : VN052797.D
Acq On : 11 Dec 2018 13:02
Operator : MD\SY
Sample : PB115504ZHE#02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 8 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#02

Quant Time: Dec 12 00:27:13 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 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: VN052797.D

Acq: 11 Dec 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

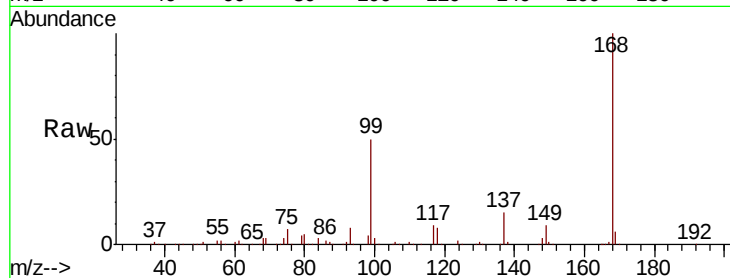
PB115504ZHE#02

Tot Ion:168 Resp: 1193446

Ion Ratio Lower Upper

168 100

99 50.3 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): VN052797.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052797.D (-1740) (-)

7.67

600000

500000

400000

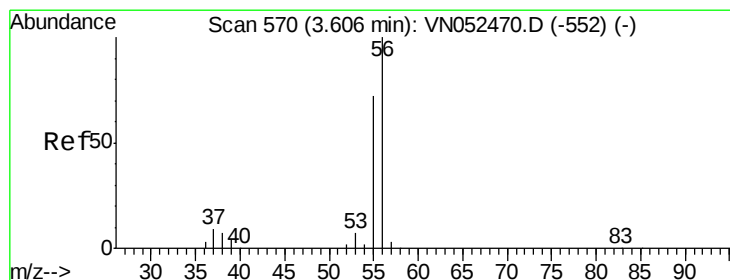
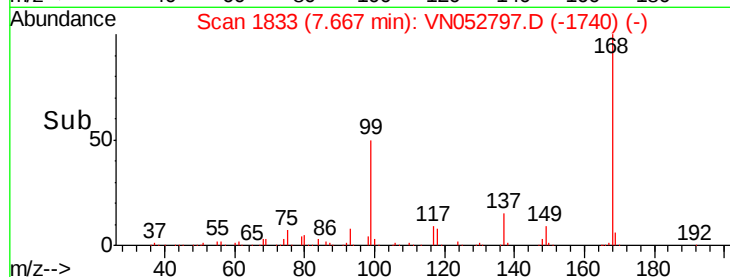
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#13

Acrolein

Concen: 0.322 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN052797.D

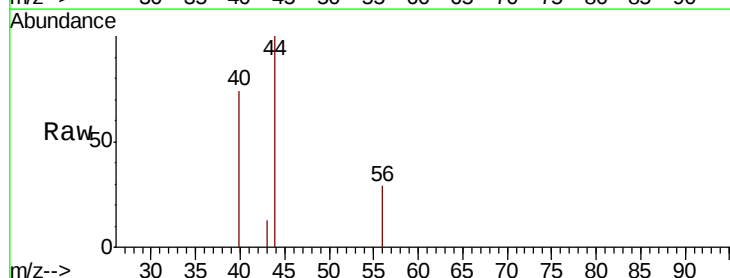
Acq: 11 Dec 2018 13:02

Tgt Ion: 56 Resp: 364

Ion Ratio Lower Upper

56 100

55 0.0 56.8 85.2#



Abundance Ion 56.00 (55.70 to 56.70): VN052797.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN052797.D (-477) (-)

3.61

400

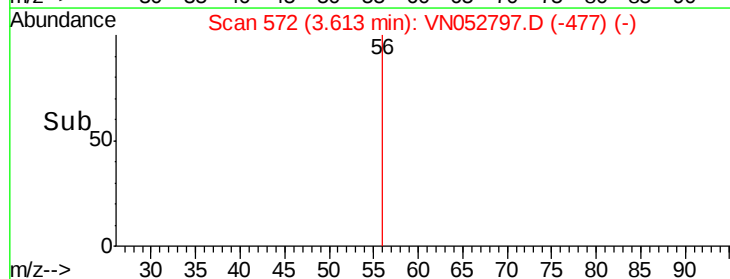
300

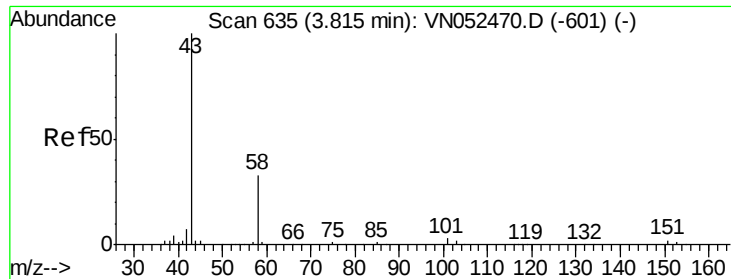
200

100

0

Time--> 3.60 3.62 3.64





#16

Acetone

Concen: 3.021 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052797.D

Acq: 11 Dec 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

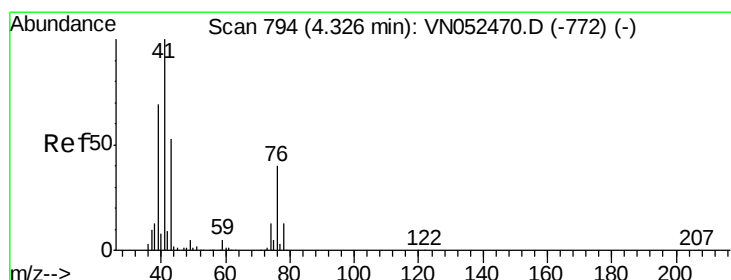
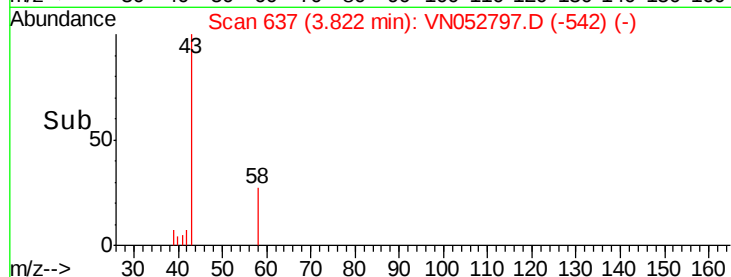
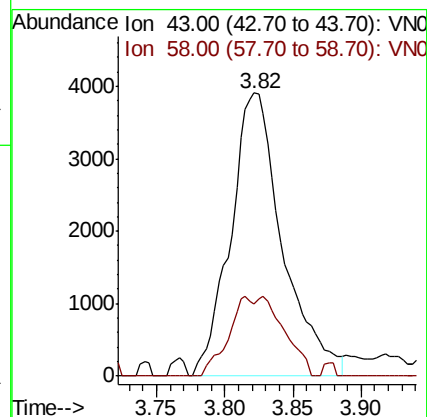
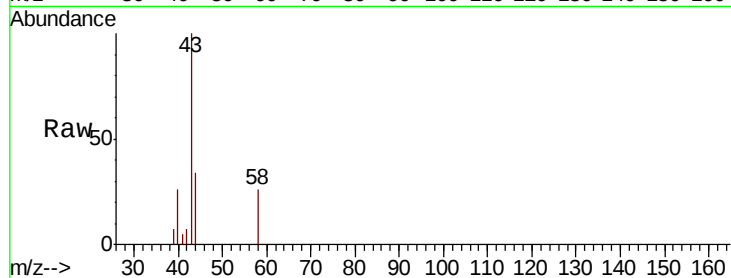
PB115504ZHE#02

Tot Ion: 43 Resp: 10354

Ion Ratio Lower Upper

43 100

58 25.7 26.0 39.0#



#18

Methyl Acetate

Concen: 0.448 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN052797.D

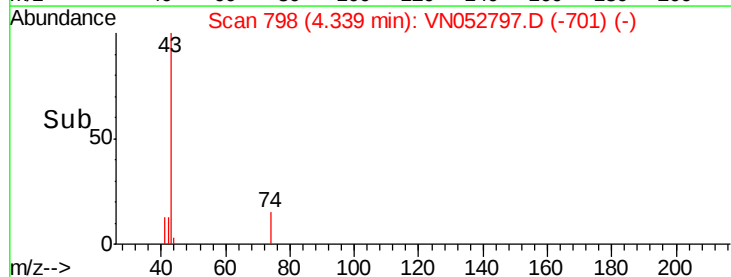
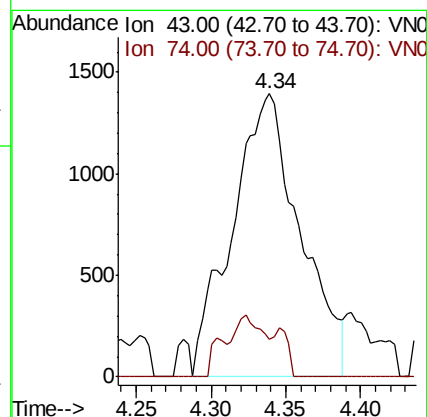
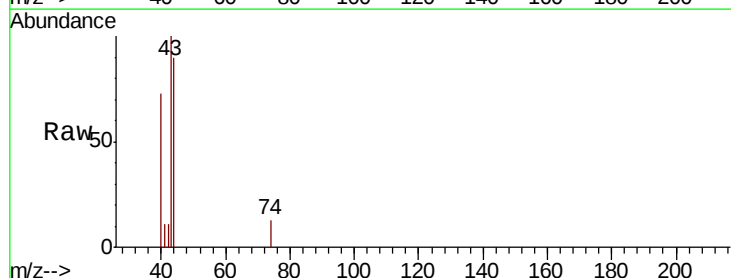
Acq: 11 Dec 2018 13:02

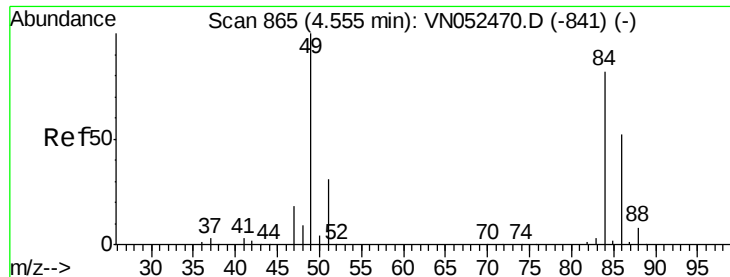
Tgt Ion: 43 Resp: 4407

Ion Ratio Lower Upper

43 100

74 4.9 18.6 27.8#

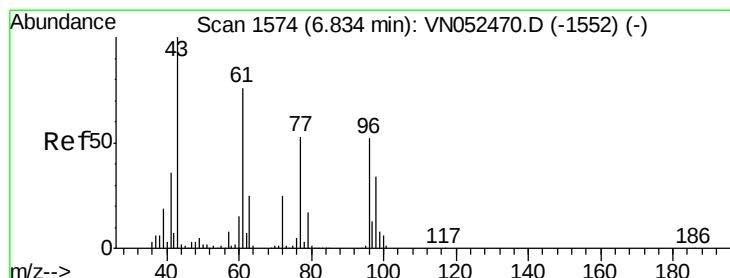
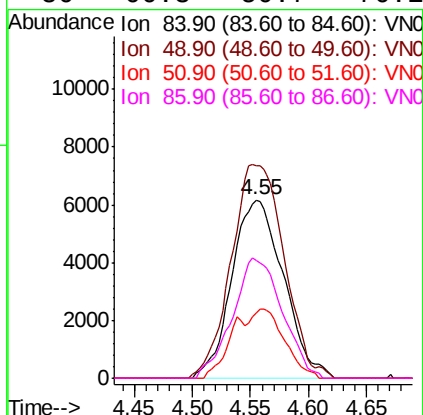
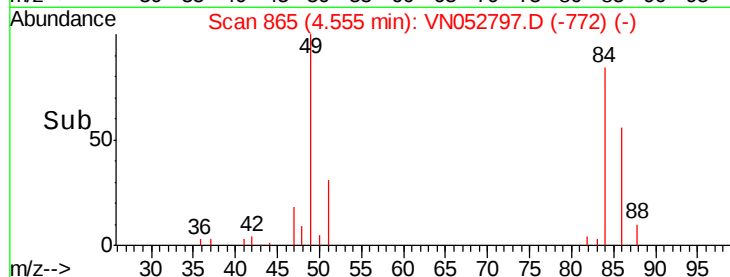
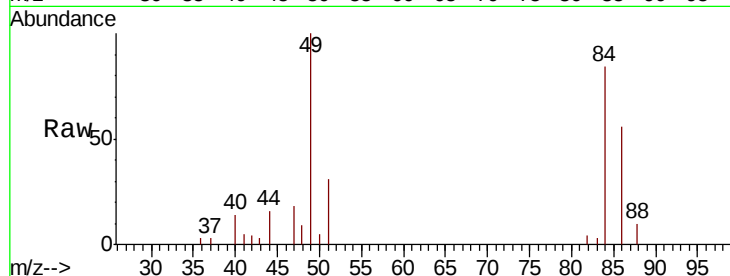




#20
Methvlene Chloride
Concen: 1.426 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052797.D
Acq: 11 Dec 2018 13:02

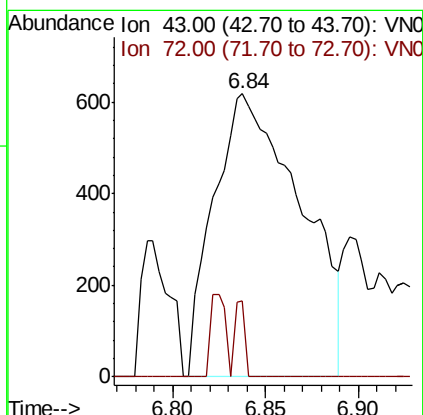
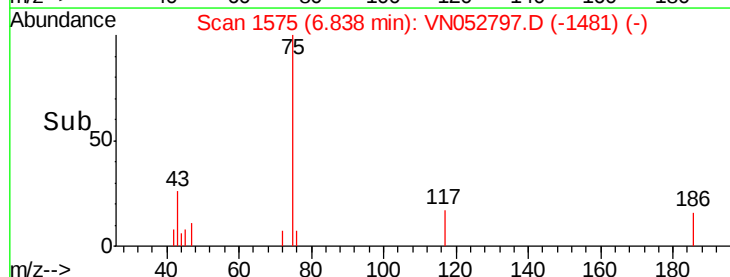
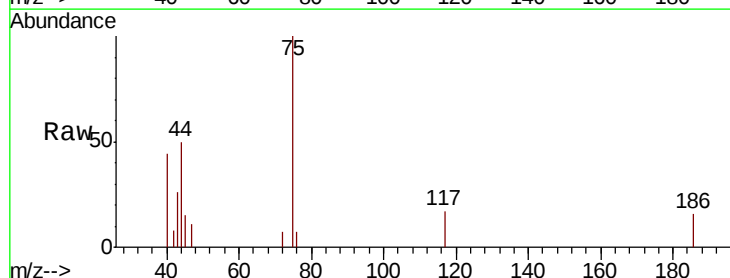
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#02

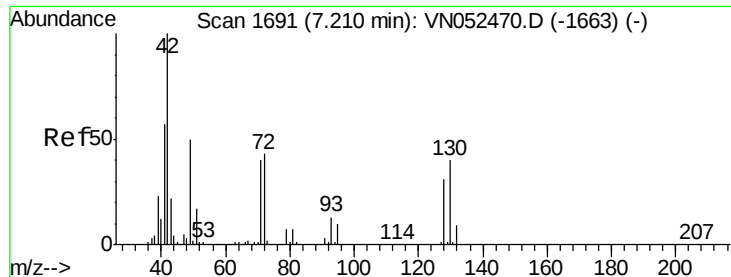
Tot Ion: 84 Resp: 19126
Ion Ratio Lower Upper
84 100
49 119.2 98.0 147.0
51 36.5 30.1 45.1
86 66.3 50.7 76.1



#25
2-Butanone
Concen: 0.415 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN052797.D
Acq: 11 Dec 2018 13:02

Tgt Ion: 43 Resp: 2015
Ion Ratio Lower Upper
43 100
72 27.0 20.1 30.1

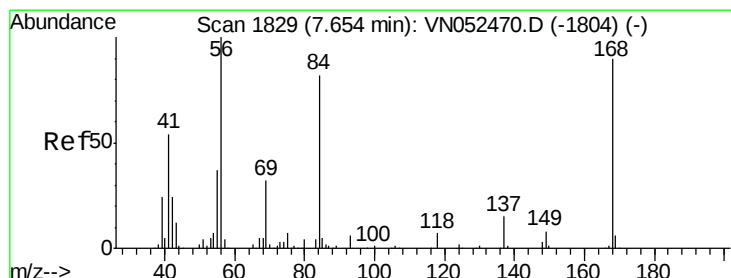
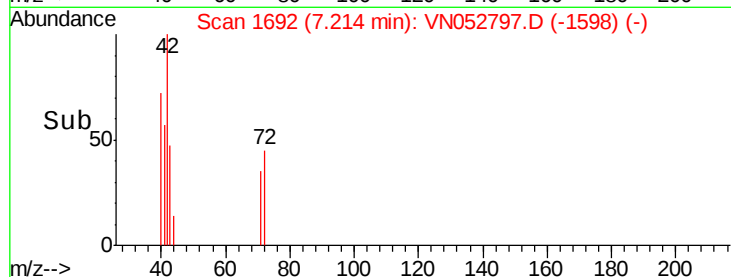
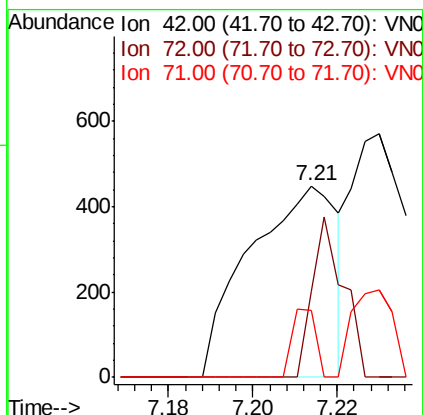
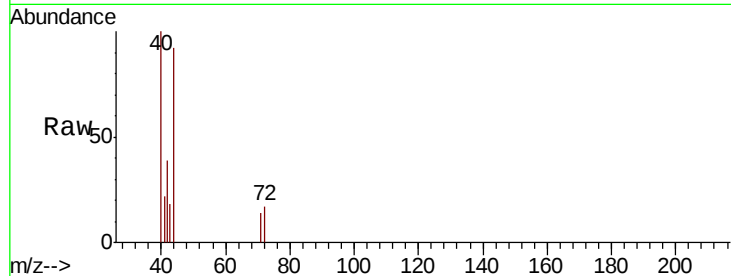




#29
Tetrahydrofuran
Concen: 0.207 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN052797.D
Acq: 11 Dec 2018 13:02

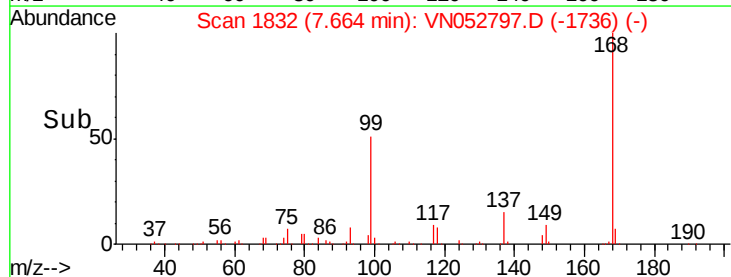
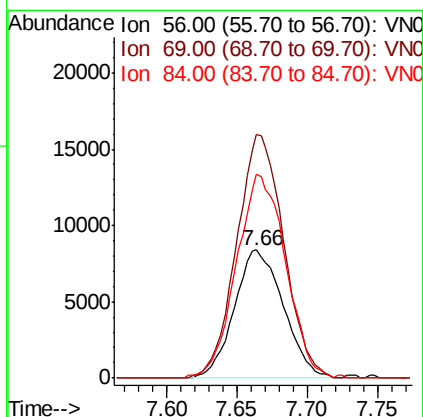
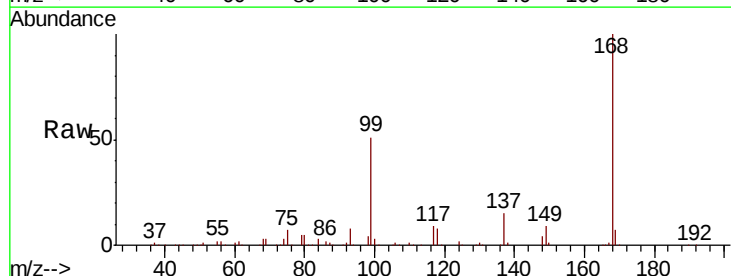
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#02

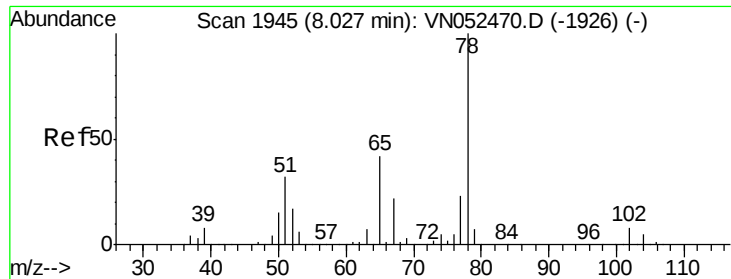
Tot Ion: 42 Resp: 649
Ion Ratio Lower Upper
42 100
72 29.9 33.3 49.9#
71 9.4 32.0 48.0#



#31
Cyclohexane
Concen: 0.551 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052797.D
Acq: 11 Dec 2018 13:02

Tgt Ion: 56 Resp: 20405
Ion Ratio Lower Upper
56 100
69 190.1 25.8 38.6#
84 157.6 65.3 97.9#

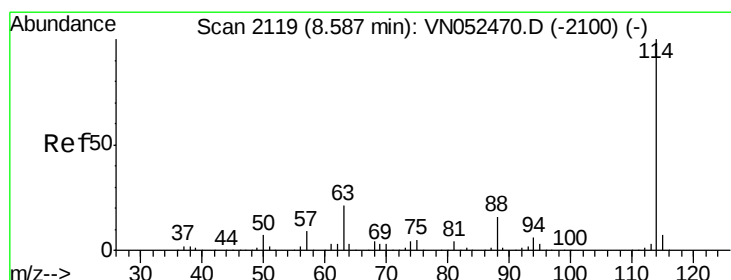
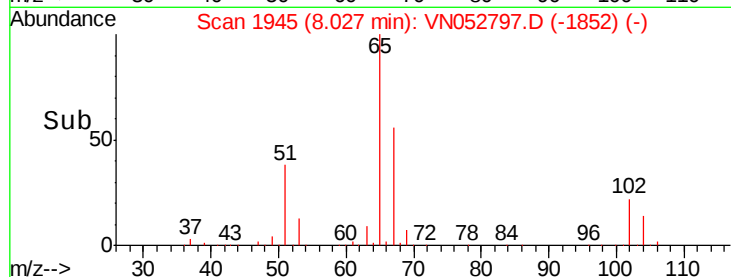
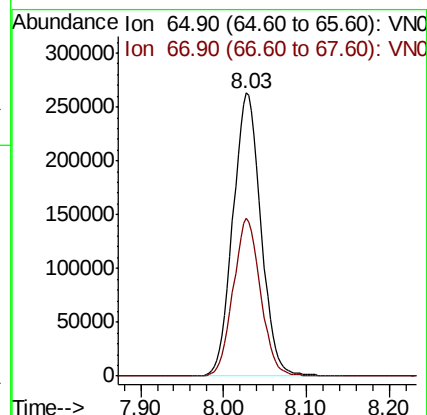
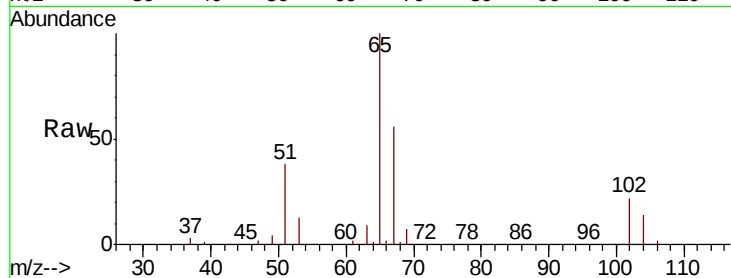




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052797.D
 Acq: 11 Dec 2018 13:02

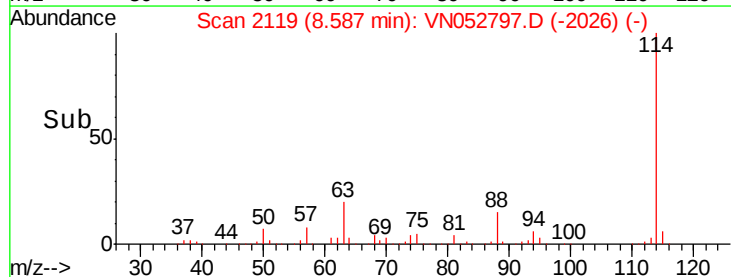
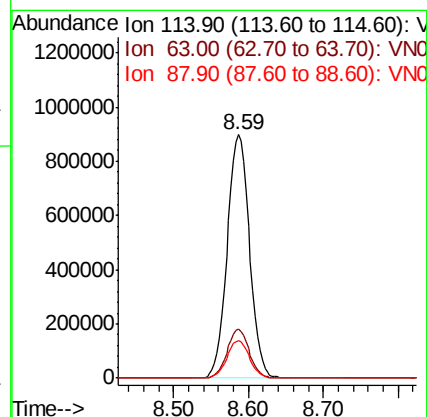
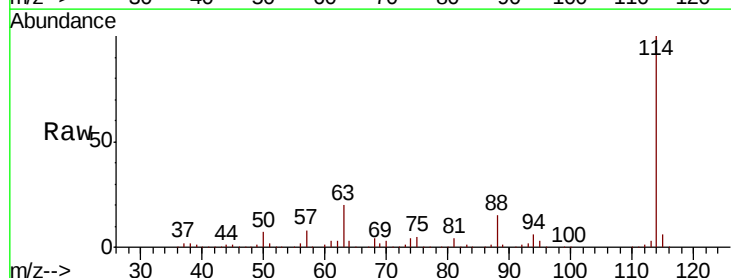
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115504ZHE#02

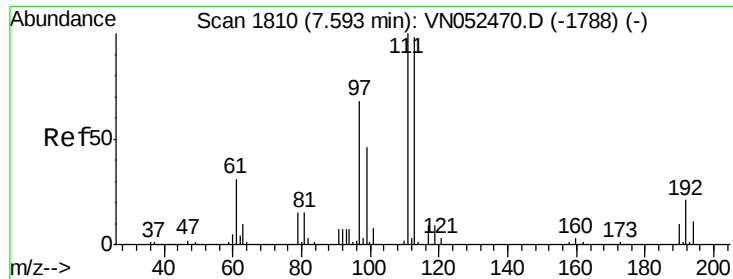
Tot Ion: 65 Resp: 619038
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052797.D
 Acq: 11 Dec 2018 13:02

Tgt Ion: 114 Resp: 1845632
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 41.8
 88 15.4 0.0 31.6

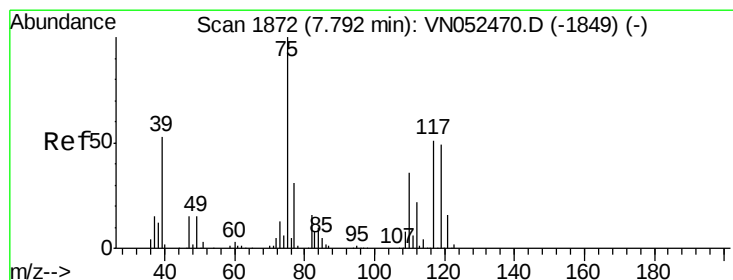
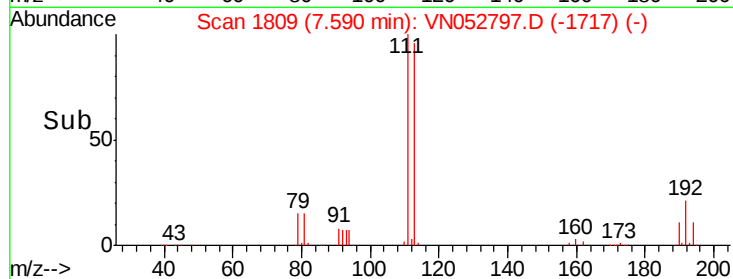
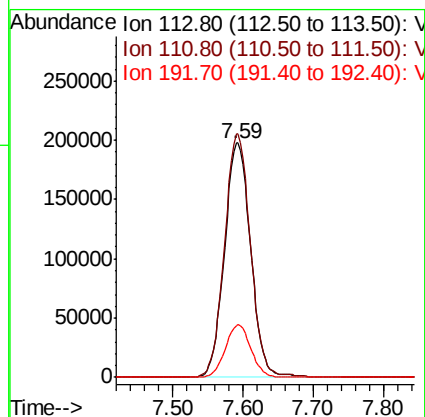
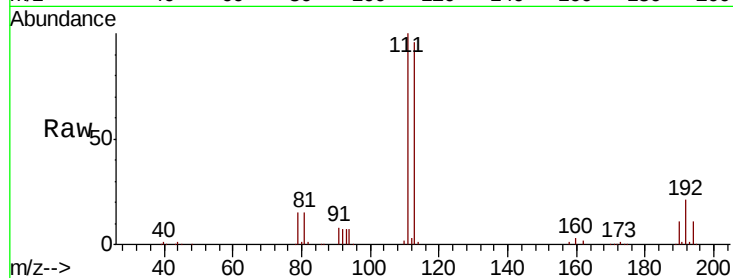




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN052797.D
Acq: 11 Dec 2018 13:02

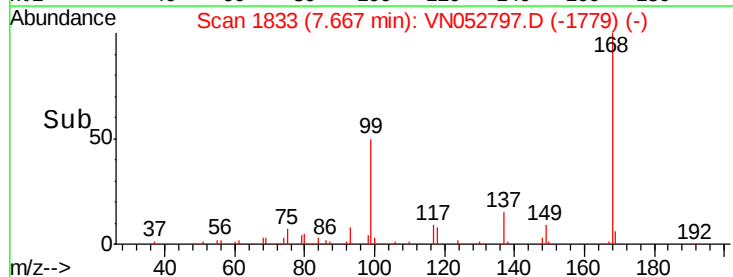
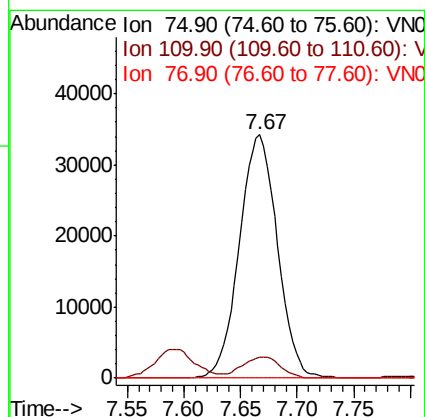
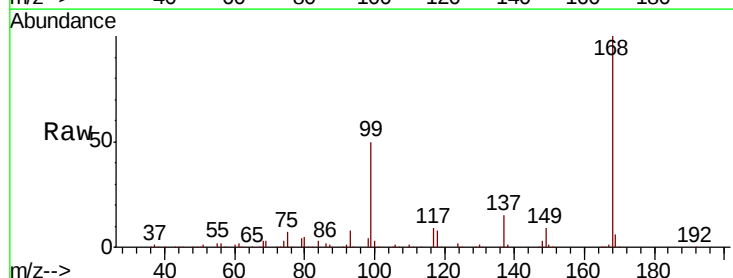
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#02

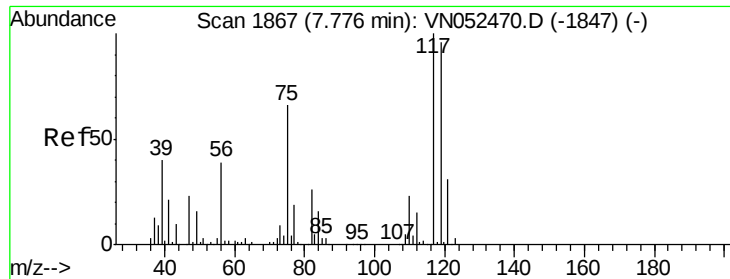
Tot Ion:113 Resp: 513413
Ion Ratio Lower Upper
113 100
111 102.9 82.0 123.0
192 21.9 17.0 25.6



#36
1,1-Dichloropropene
Concen: 4.598 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.13 min
Lab File: VN052797.D
Acq: 11 Dec 2018 13:02

Tgt Ion: 75 Resp: 80143
Ion Ratio Lower Upper
75 100
110 8.8 17.5 52.6#
77 0.0 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 6.657 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052797.D

Acq: 11 Dec 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#02

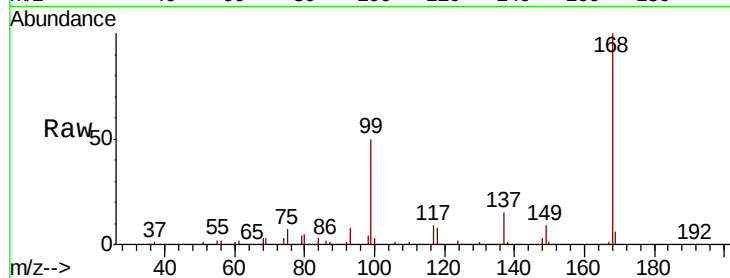
Tot Ion:117 Resp: 105026

Ion Ratio Lower Upper

117 100

119 5.0 76.8 115.2#

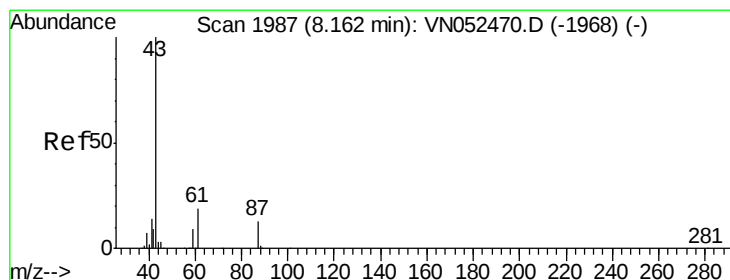
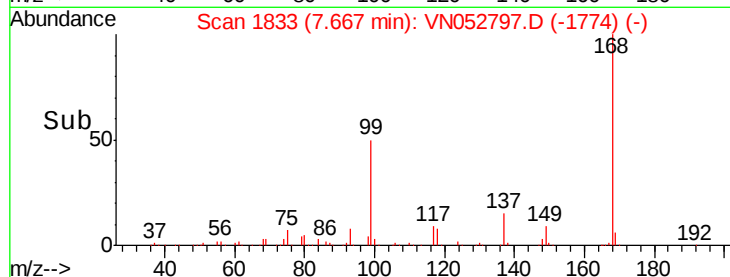
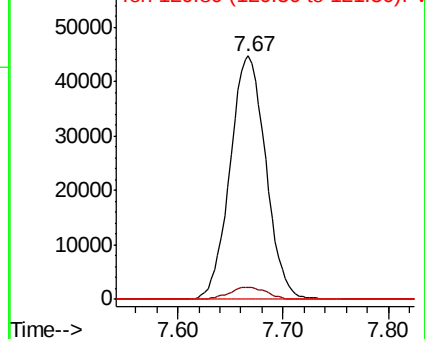
121 0.0 24.9 37.3#



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: 4.108 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052797.D

Acq: 11 Dec 2018 13:02

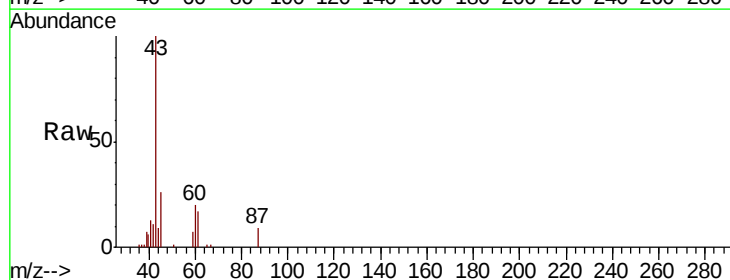
Tgt Ion: 43 Resp: 73948

Ion Ratio Lower Upper

43 100

61 13.1 24.1 36.1#

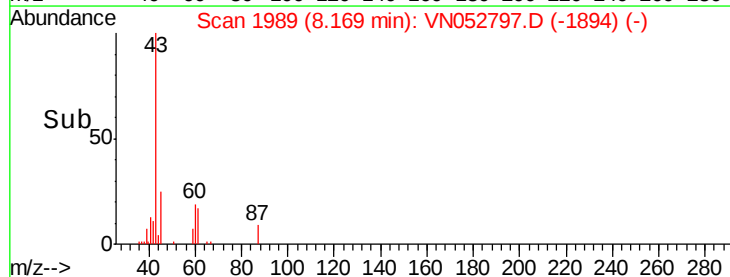
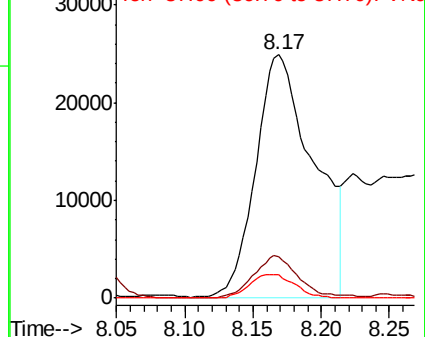
87 7.5 10.6 15.8#

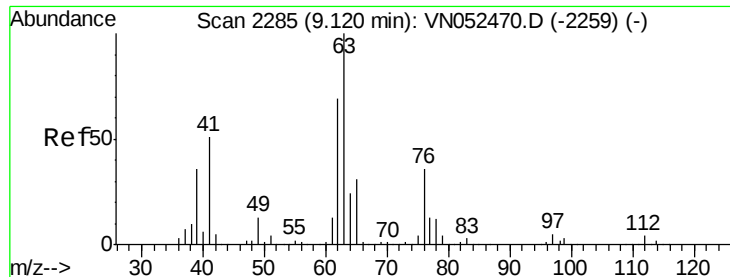


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.225 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN052797.D

Acq: 11 Dec 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

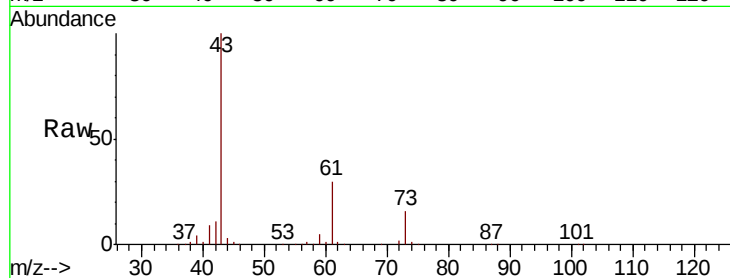
PB115504ZHE#02

Tot Ion: 63 Resp: 3105

Ion Ratio Lower Upper

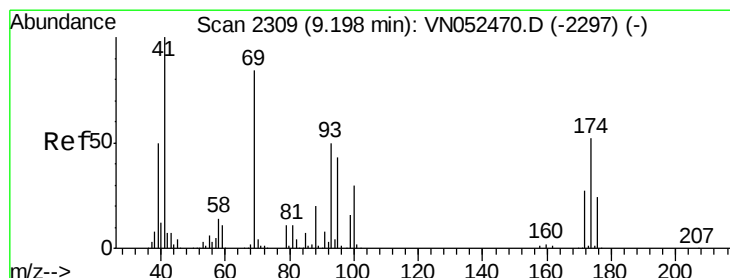
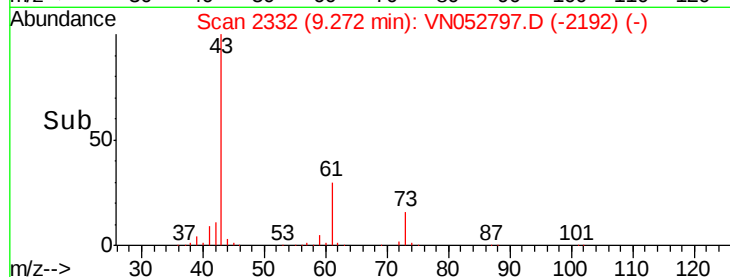
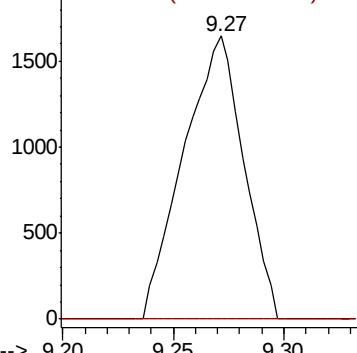
63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.567 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052797.D

Acq: 11 Dec 2018 13:02

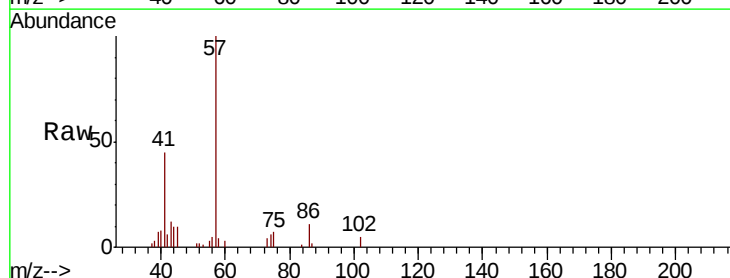
Tgt Ion: 41 Resp: 14711

Ion Ratio Lower Upper

41 100

69 0.0 70.0 105.0#

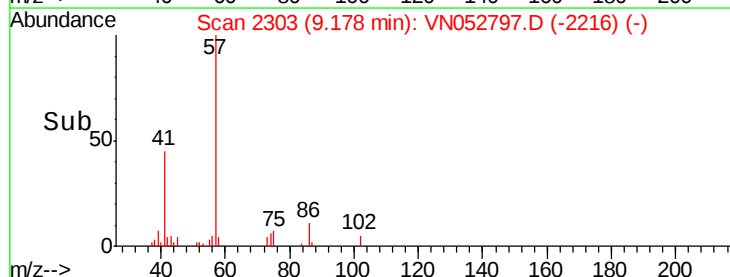
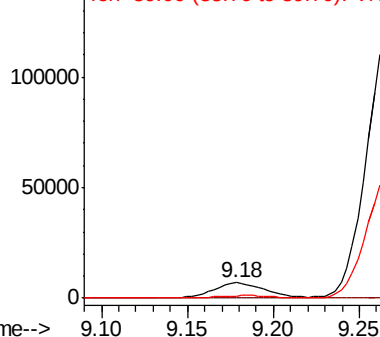
39 0.0 42.6 64.0#

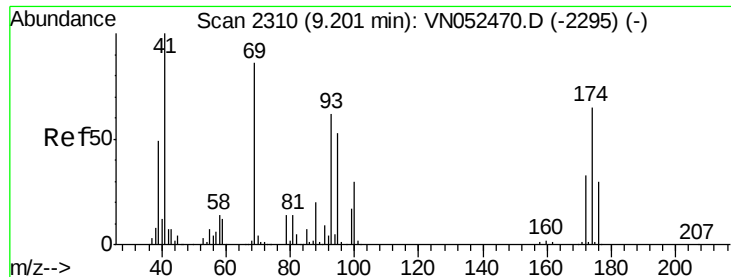


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 1.345 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN052797.D

Acq: 11 Dec 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#02

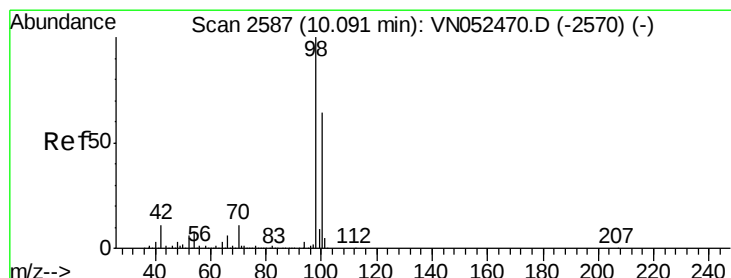
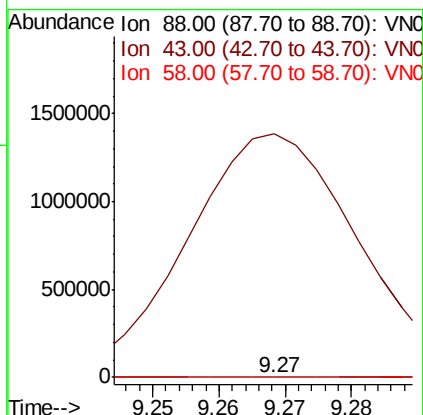
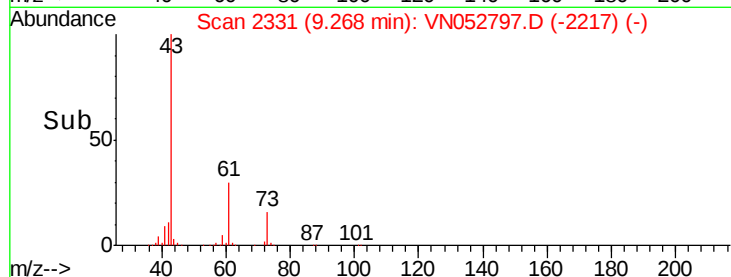
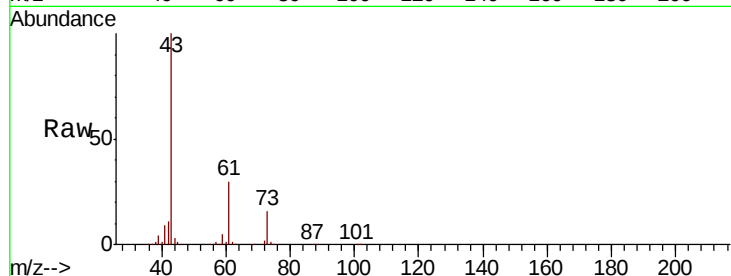
Tot Ion: 88 Resp: 131

Ion Ratio Lower Upper

88 100

43 1951832.1 26.4 39.6#

58 8443.5 55.4 83.0#



#50

Toluene-d8

Concen: 1.345 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052797.D

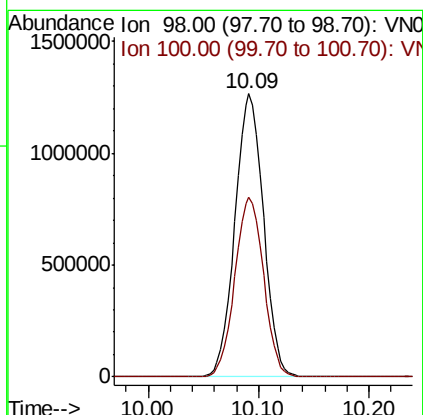
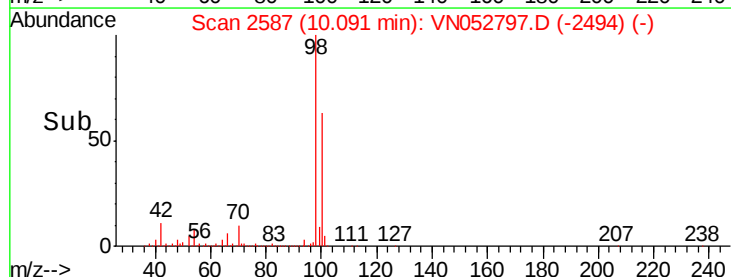
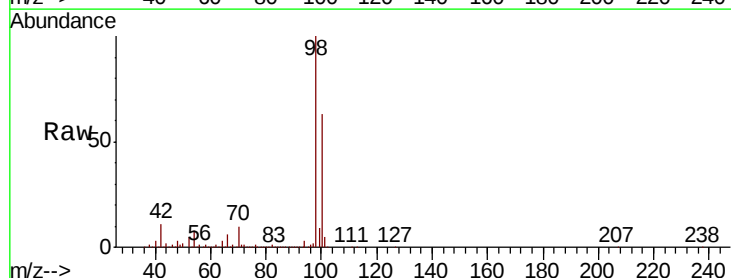
Acq: 11 Dec 2018 13:02

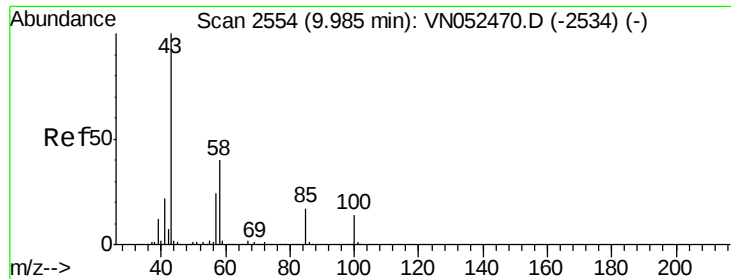
Tgt Ion: 98 Resp: 2271710

Ion Ratio Lower Upper

98 100

100 63.9 51.3 76.9





#51

4-Methyl-2-Pentanone

Concen: 1.596 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052797.D

Acq: 11 Dec 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

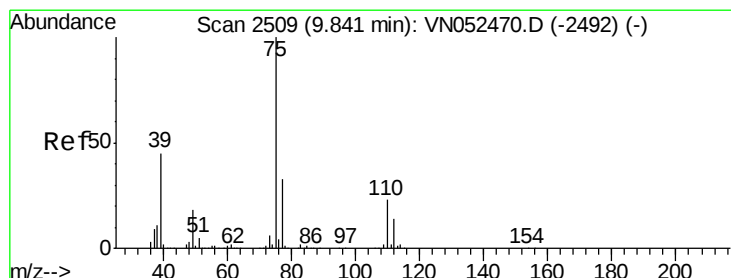
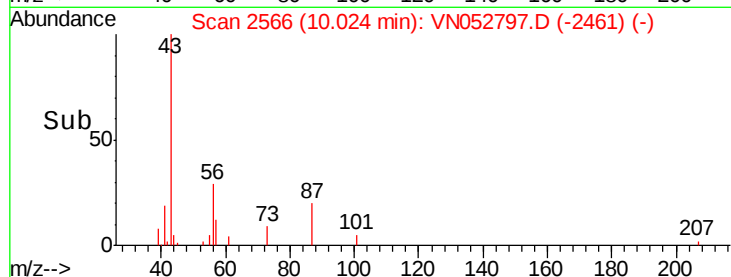
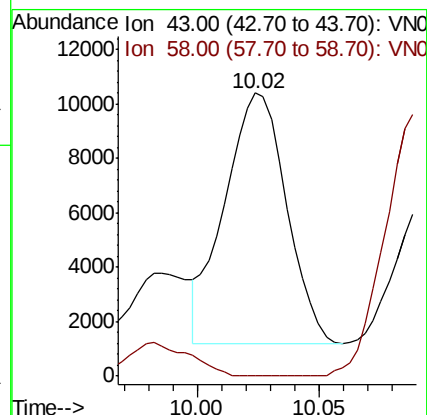
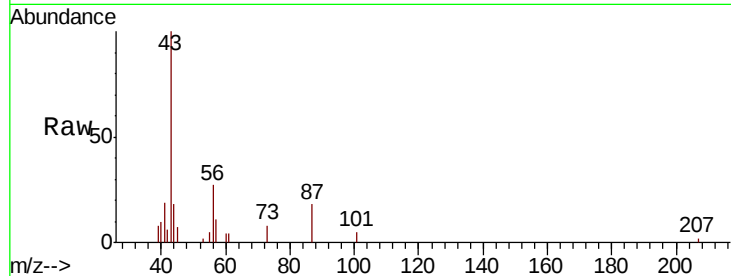
PB115504ZHE#02

Tot Ion: 43 Resp: 16120

Ion Ratio Lower Upper

43 100

58 0.0 31.5 47.3#



#54

cis-1,3-Dichloropropene

Concen: 6.284 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052797.D

Acq: 11 Dec 2018 13:02

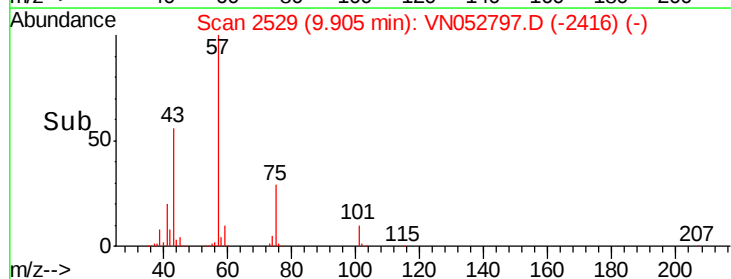
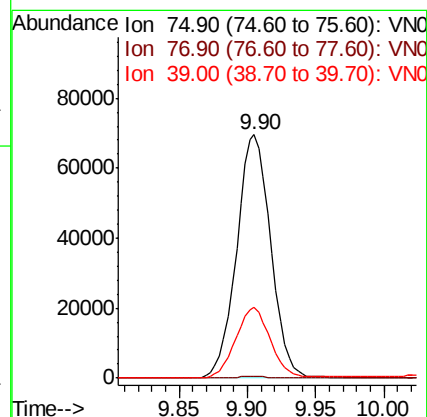
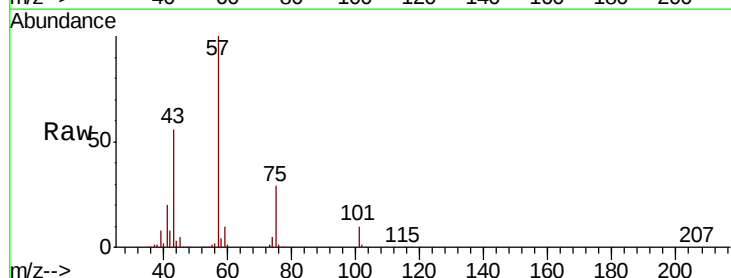
Tgt Ion: 75 Resp: 120410

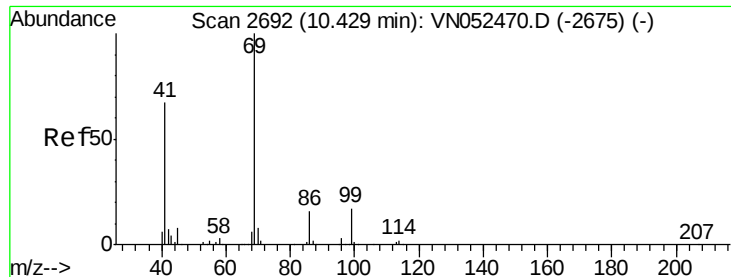
Ion Ratio Lower Upper

75 100

77 0.6 26.2 39.2#

39 29.1 36.0 54.0#

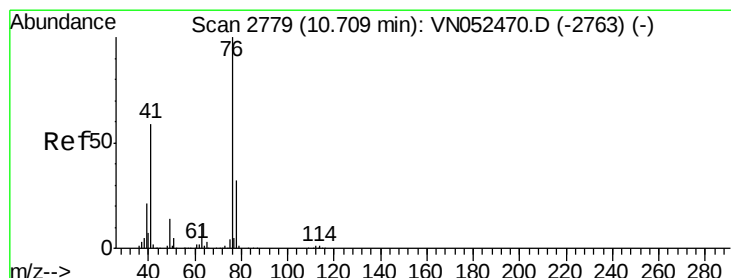
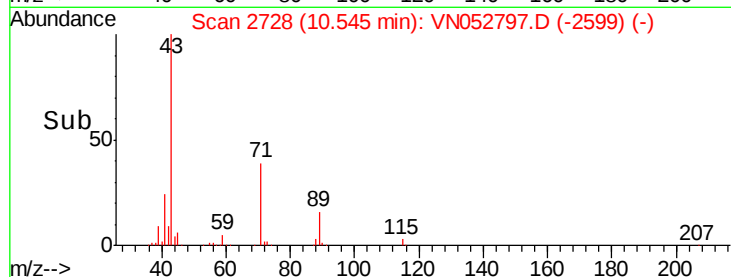
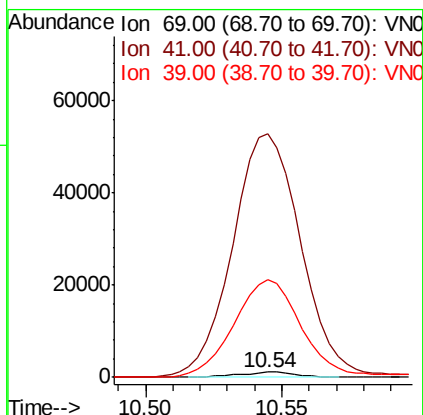
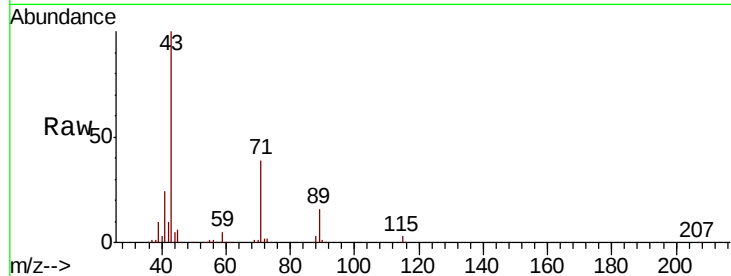




#56
Ethyl methacrylate
Concen: 2.795 ug/l
RT: 10.54 min Scan# 2728
Delta R.T. 0.12 min
Lab File: VN052797.D
Acq: 11 Dec 2018 13:02

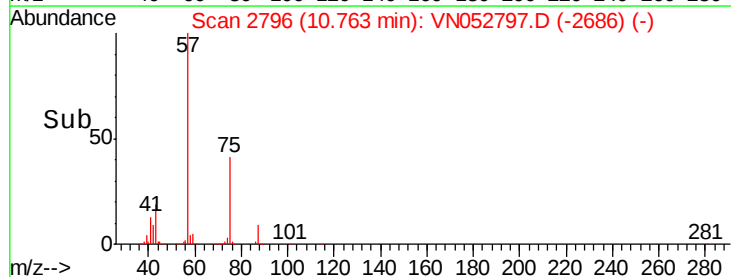
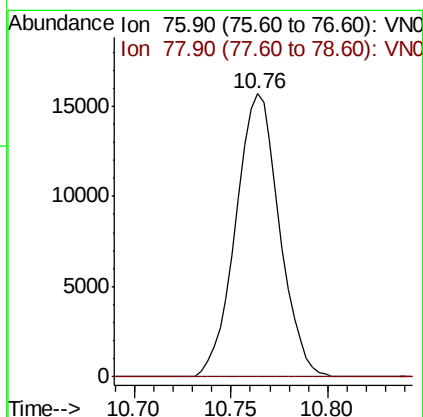
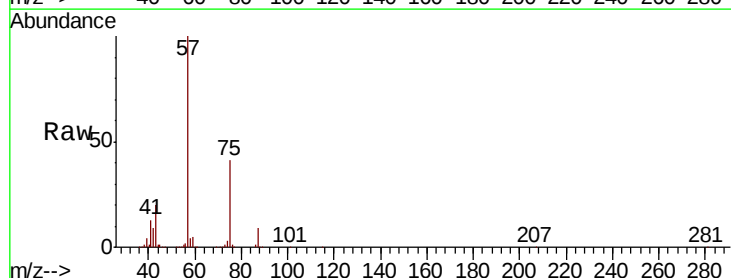
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#02

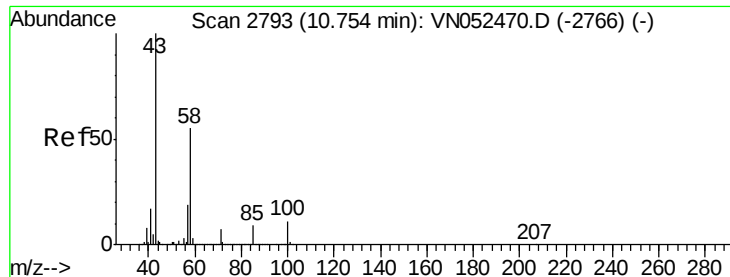
Tot Ion: 69 Resp: 1622
Ion Ratio Lower Upper
69 100
41 5705.5 52.6 79.0#
39 2278.2 25.9 38.9#



#57
1,3-Dichloropropane
Concen: 1.286 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.05 min
Lab File: VN052797.D
Acq: 11 Dec 2018 13:02

Tgt Ion: 76 Resp: 24645
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#





#59

2-Hexanone

Concen: 49.963 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052797.D

Acq: 11 Dec 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

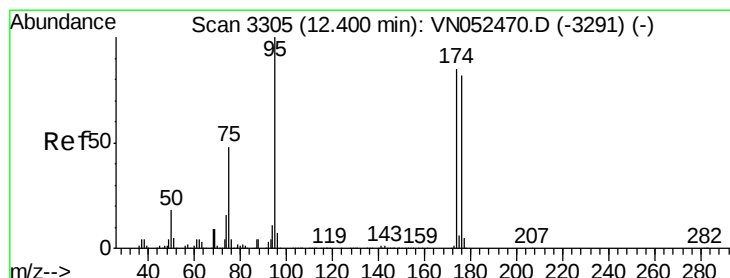
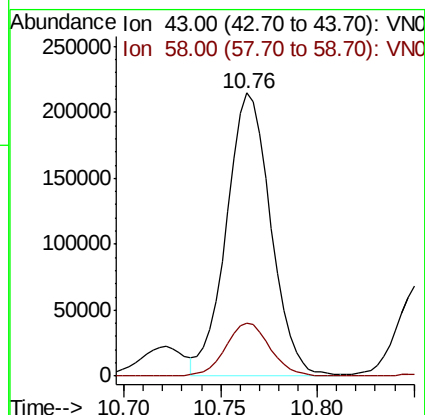
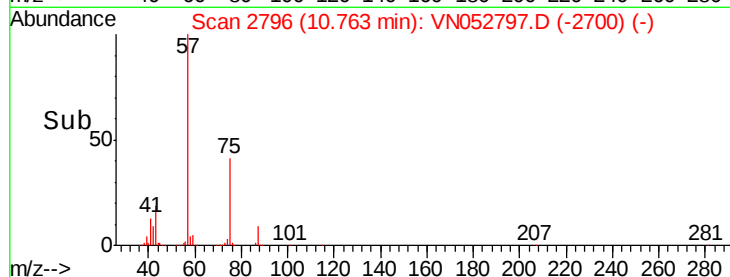
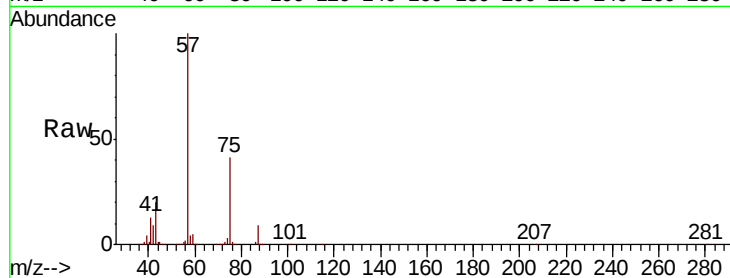
PB115504ZHE#02

Tot Ion: 43 Resp: 338663

Ion Ratio Lower Upper

43 100

58 19.2 27.4 82.0#



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052797.D

Acq: 11 Dec 2018 13:02

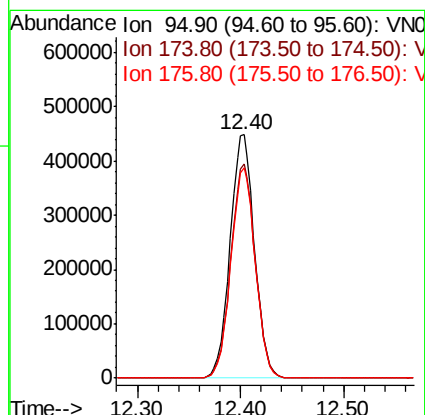
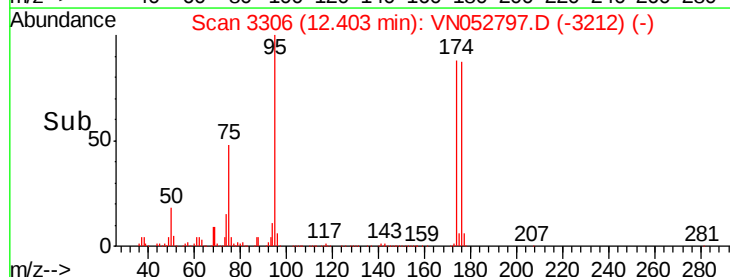
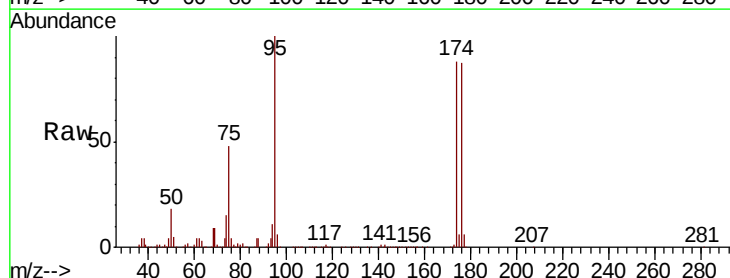
Tgt Ion: 95 Resp: 737085

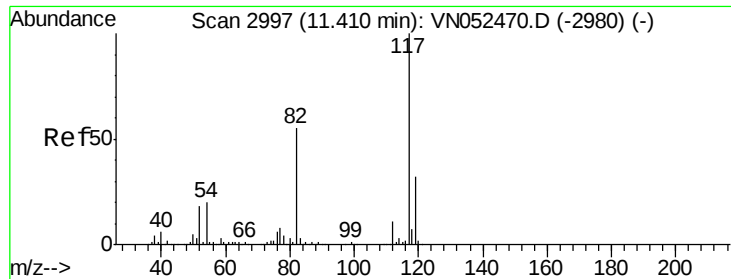
Ion Ratio Lower Upper

95 100

174 88.4 0.0 173.0

176 86.6 0.0 166.2

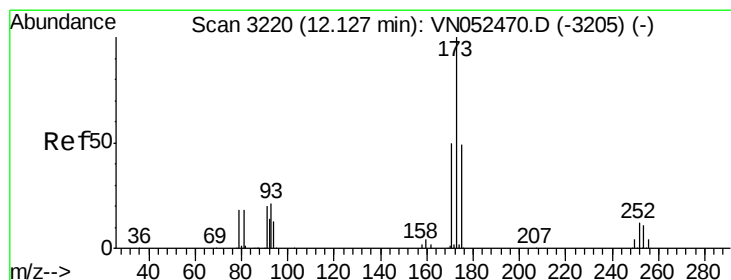
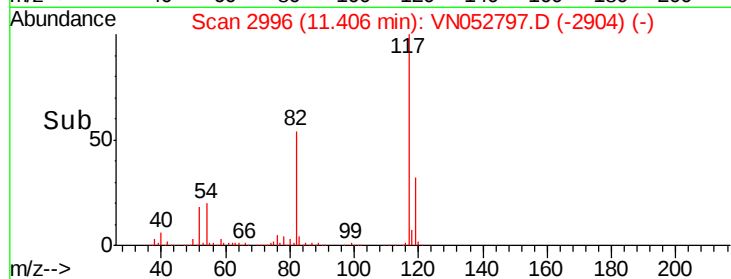
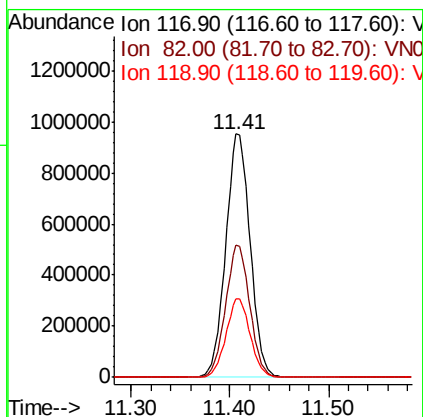
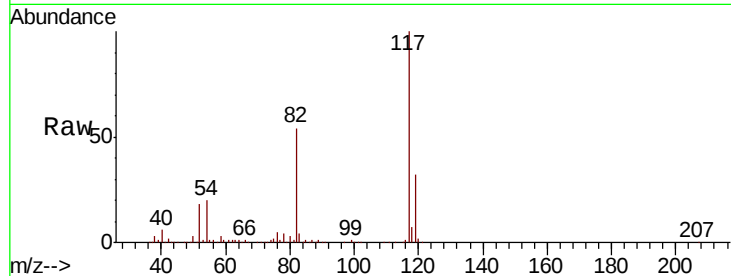




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052797.D
Acq: 11 Dec 2018 13:02

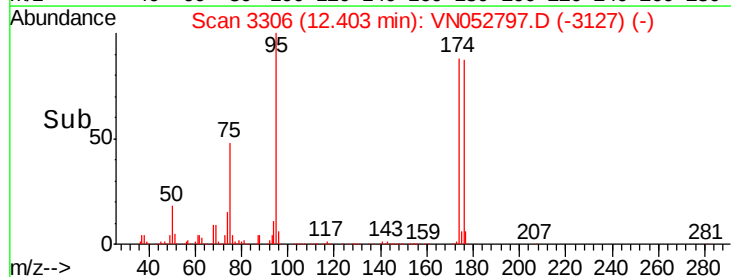
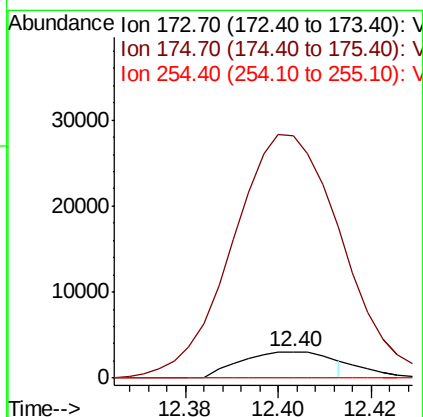
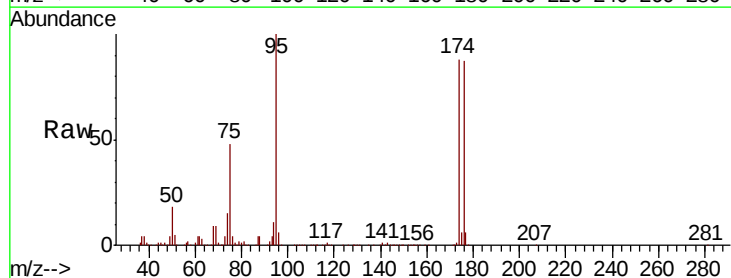
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#02

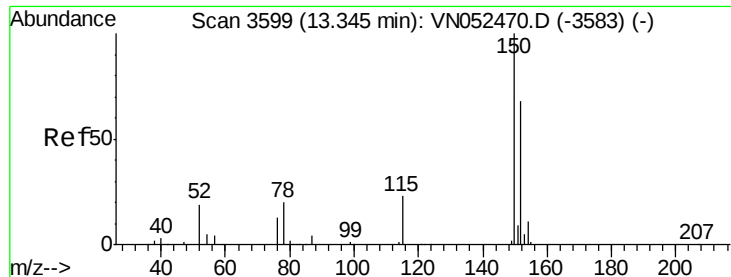
Tot Ion:117 Resp: 1651365
Ion Ratio Lower Upper
117 100
82 54.2 43.6 65.4
119 32.2 25.4 38.2



#71
Bromoform
Concen: 0.532 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052797.D
Acq: 11 Dec 2018 13:02

Tgt Ion:173 Resp: 4169
Ion Ratio Lower Upper
173 100
175 976.6 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052797.D

Acq: 11 Dec 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#02

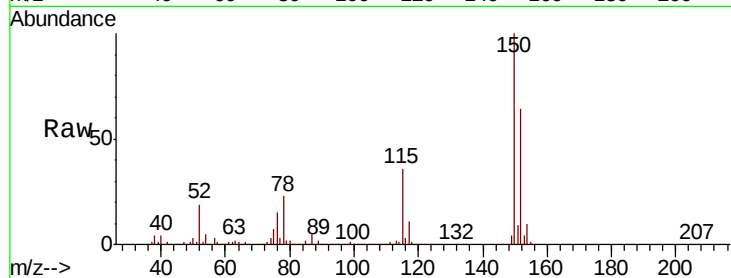
Tot Ion:152 Resp: 684773

Ion Ratio Lower Upper

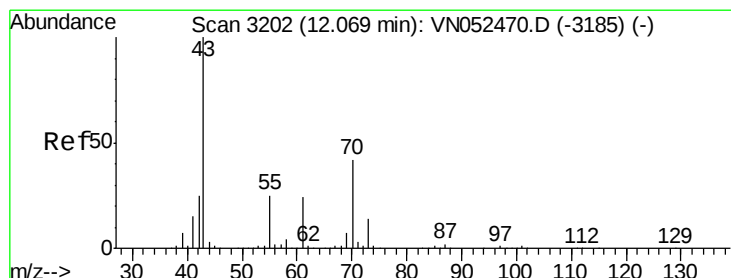
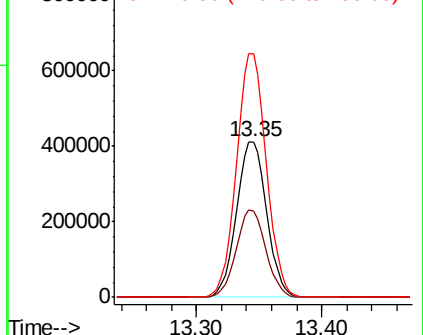
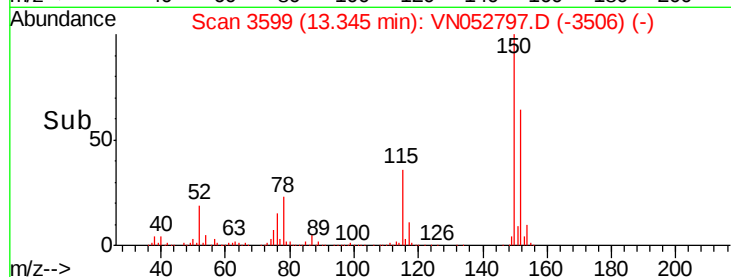
152 100

115 55.3 28.4 85.2

150 155.1 0.0 346.0



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: 2.996 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052797.D

Acq: 11 Dec 2018 13:02

Tgt Ion: 43 Resp: 40670

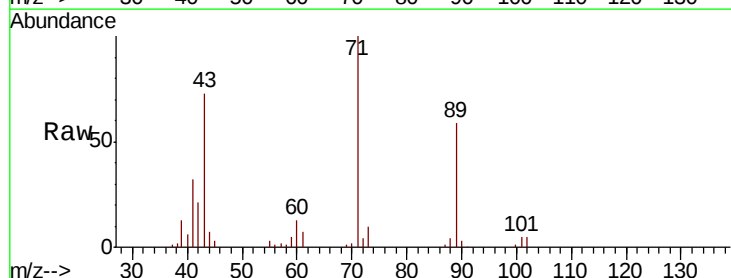
Ion Ratio Lower Upper

43 100

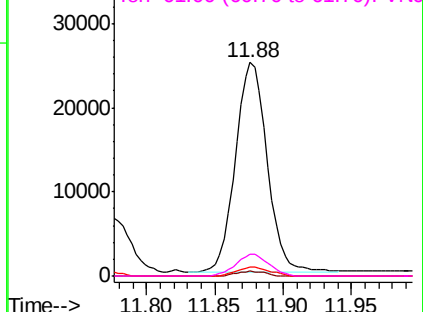
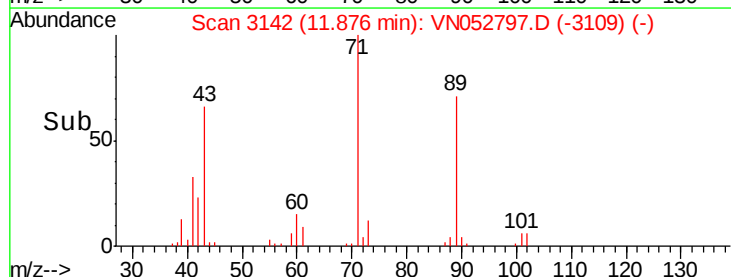
70 1.9 33.8 50.8#

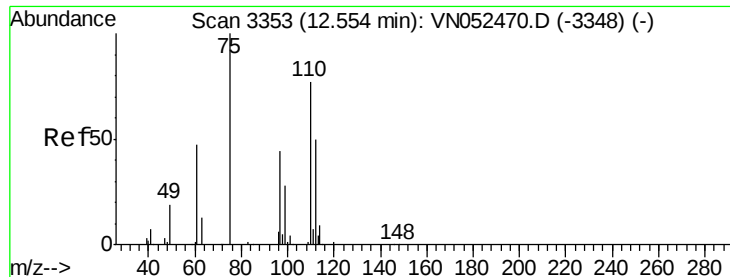
55 4.4 20.0 30.0#

61 10.5 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 70.00 (69.70 to 70.70): VNC
Ion 55.00 (54.70 to 55.70): VNC
Ion 61.00 (60.70 to 61.70): VNC





#76

1,2,3-Trichloropropane

Concen: 33.194 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052797.D

Acq: 11 Dec 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

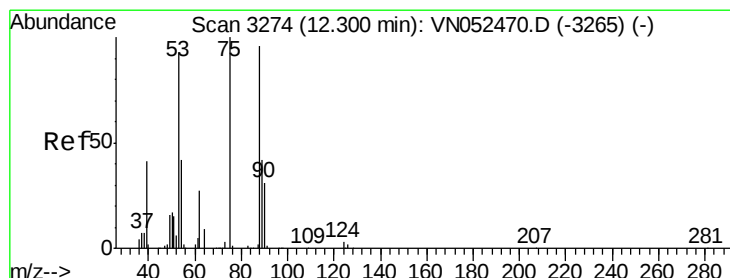
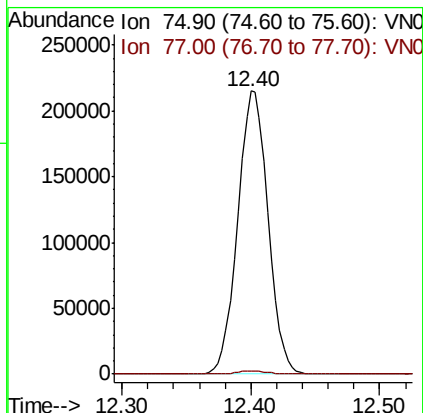
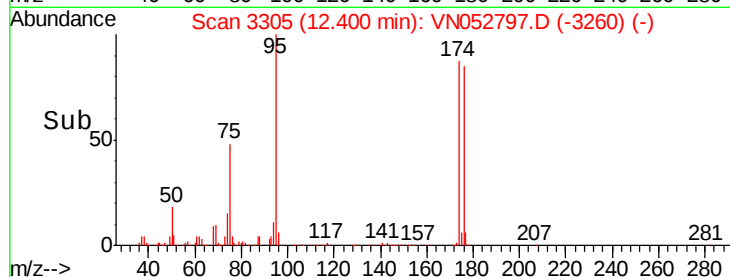
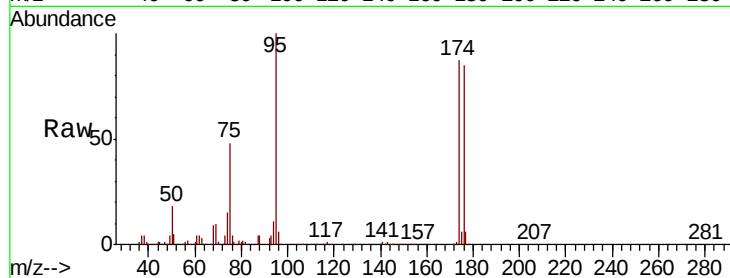
PB115504ZHE#02

Tot Ion: 75 Resp: 350517

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 110.853 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052797.D

Acq: 11 Dec 2018 13:02

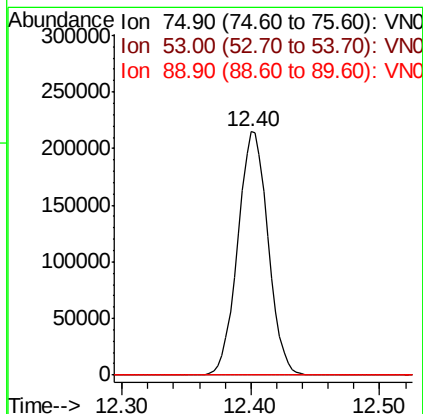
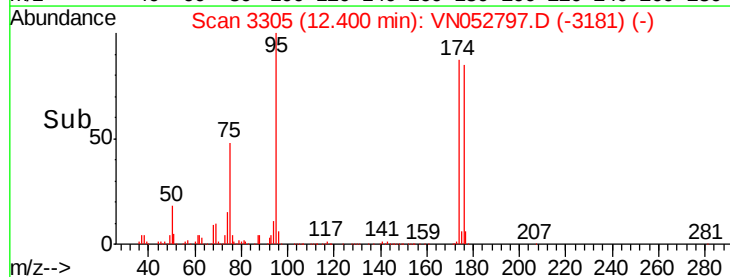
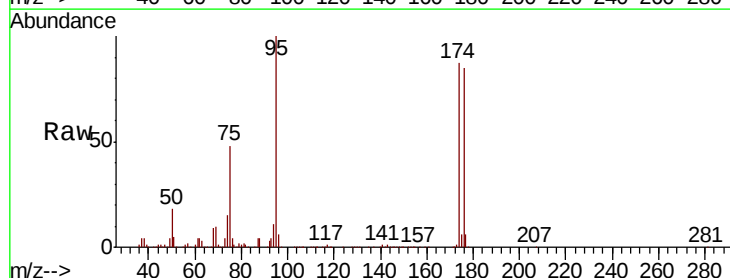
Tgt Ion: 75 Resp: 350517

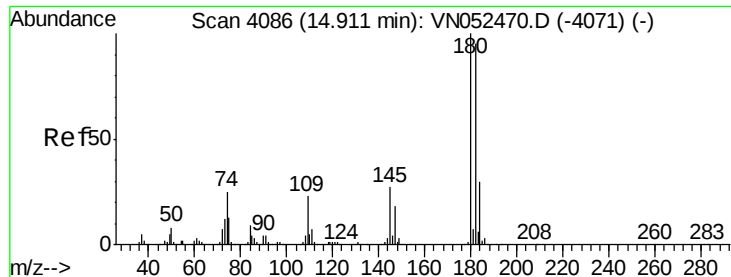
Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

89 0.0 35.4 53.2#

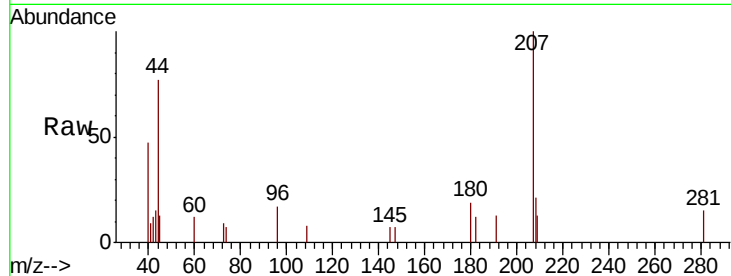




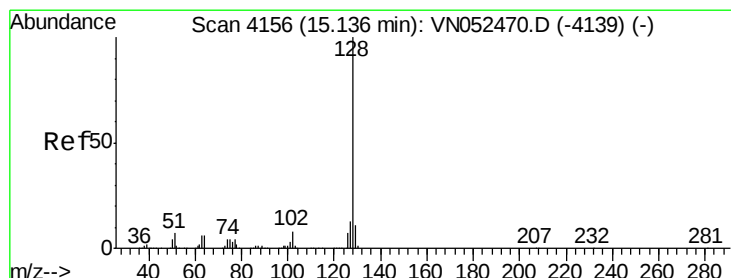
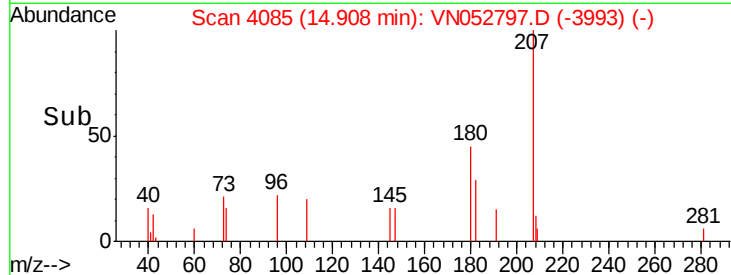
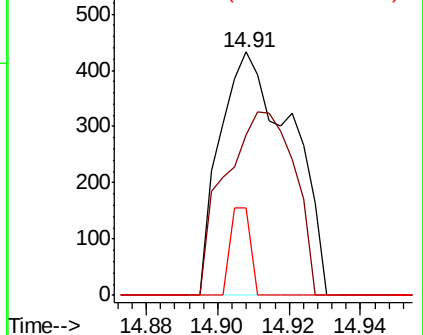
#93
 1,2,4-Trichlorobenzene
 Concen: 2.876 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052797.D
 Acq: 11 Dec 2018 13:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115504ZHE#02

Tot Ion:180 Resp: 599
 Ion Ratio Lower Upper
 180 100
 182 73.0 47.8 143.4
 145 10.0 14.1 42.3#

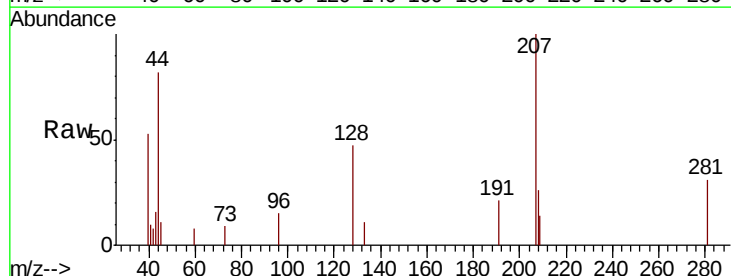


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

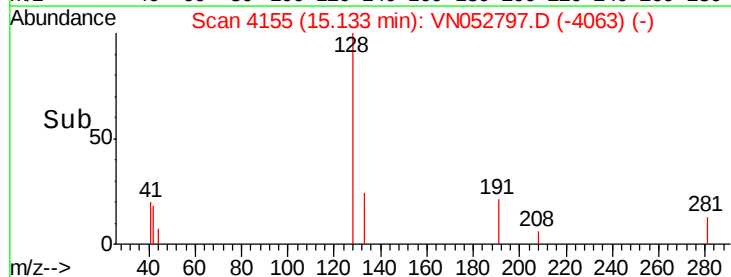
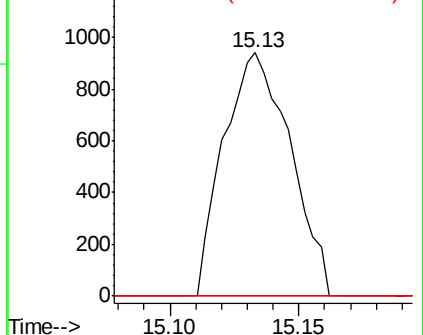


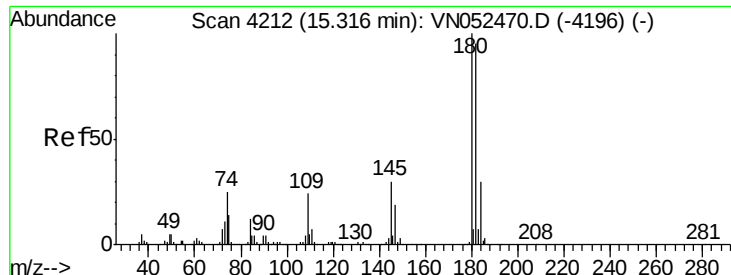
#95
 Naphthalene
 Concen: 3.490 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN052797.D
 Acq: 11 Dec 2018 13:02

Tgt Ion:128 Resp: 1690
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.2#
 129 0.0 8.7 13.1#



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





#96
 1,2,3-Trichlorobenzene
 Concen: 2.756 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN052797.D
 Acq: 11 Dec 2018 13:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115504ZHE#02

Tot Ion	Ratio	Lower	Upper
180	100		
182	226.0	47.8	143.3#
145	44.2	15.2	45.5

