

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052130.D
 Acq On : 2 Nov 2018 15:43
 Operator : MD\SY
 Sample : PB114370ZHE#19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114370ZHE#19

Quant Time: Nov 02 23:14:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	277321	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	519475	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	505822	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	207866	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	242781	54.55	ug/l	0.00
Spiked Amount			Recovery	=	109.10%	
35) Dibromofluoromethane	7.59	113	192496	59.23	ug/l	0.00
Spiked Amount			Recovery	=	118.46%	
50) Toluene-d8	10.09	98	777654	59.87	ug/l	0.00
Spiked Amount			Recovery	=	119.74%	
62) 4-Bromofluorobenzene	12.40	95	269305	56.48	ug/l	0.00
Spiked Amount			Recovery	=	112.96%	

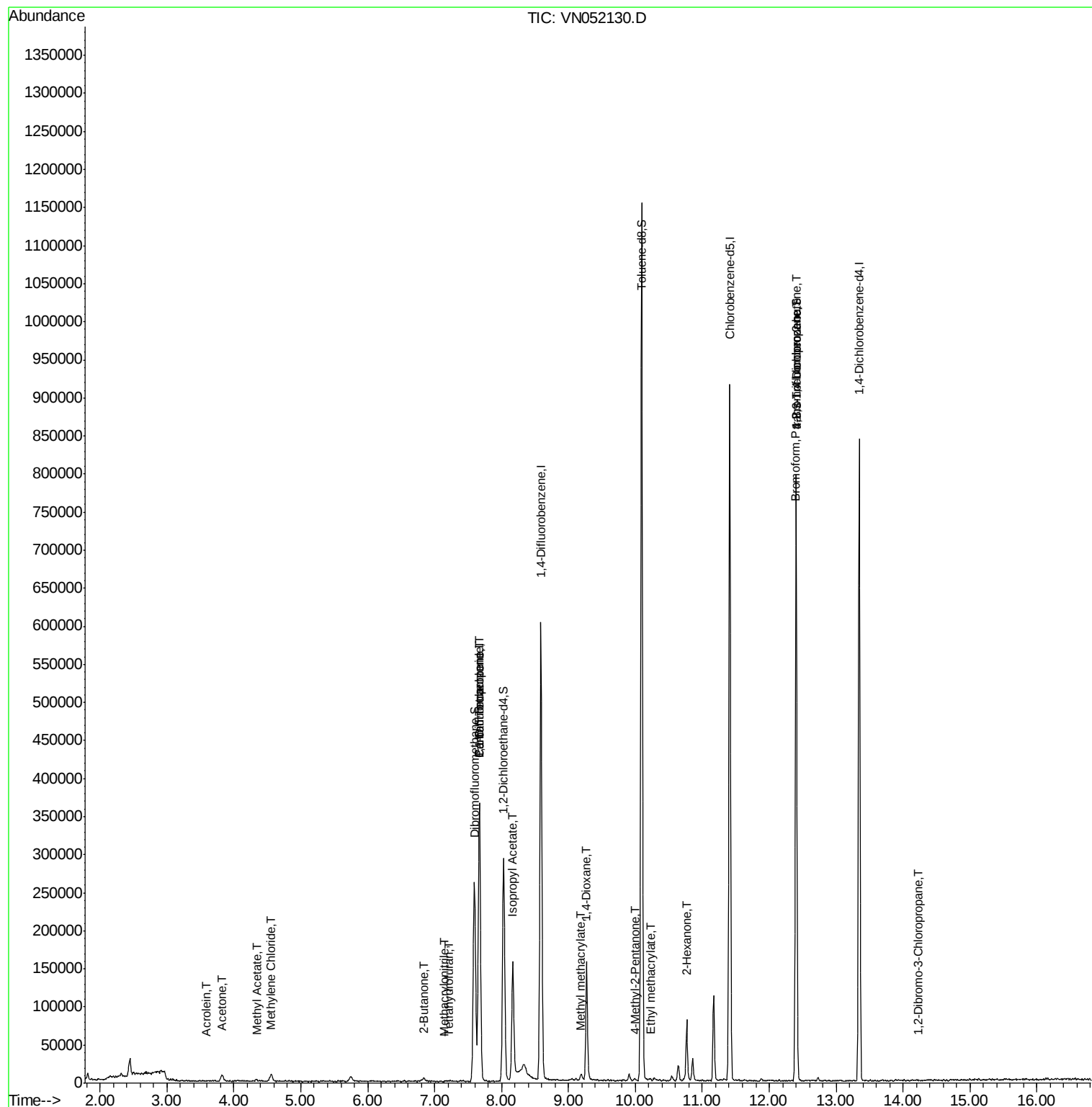
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	29	24.155	ug/l #	12
16) Acetone	3.82	43	14911	15.697	ug/l	100
18) Methyl Acetate	4.34	43	3690	1.220	ug/l	91
20) Methylene Chloride	4.56	84	3676	1.016	ug/l #	69
25) 2-Butanone	6.84	43	968	0.650	ug/l #	86
29) Tetrahydrofuran	7.20	42	405	0.408	ug/l #	33
31) Cyclohexane	7.67	56	7224	Below Cal	#	9
36) 1,1-Dichloropropene	7.67	75	24741	4.684	ug/l #	52
38) Carbon Tetrachloride	7.67	117	29238	6.420	ug/l #	17
41) Methacrylonitrile	7.15	41	106	0.200	ug/l #	1
43) Isopropyl Acetate	8.17	43	193417	30.759	ug/l	98
48) Methyl methacrylate	9.18	41	4598	1.442	ug/l #	26
49) 1,4-Dioxane	9.26	88	60	27.249	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	1338	0.391	ug/l #	66
56) Ethyl methacrylate	10.23	69	1436	0.306	ug/l #	70
59) 2-Hexanone	10.77	43	13102	5.379	ug/l #	57
71) Bromoform	12.39	173	364	2.340	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	143090	37.605	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	143090	124.817	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.22	75	31	0.968	ug/l #	11

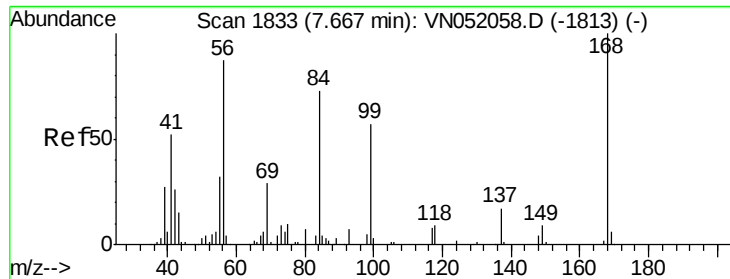
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

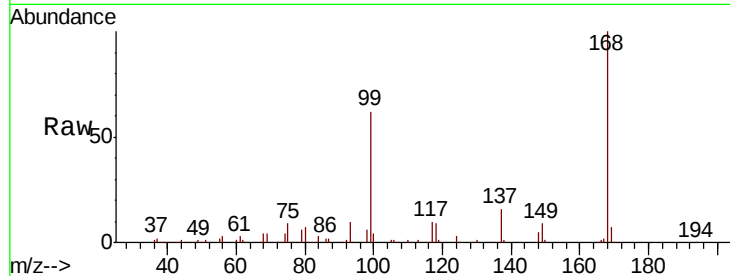
PB114370ZHE#19

Tot Ion:168 Resp: 277321

Ion Ratio Lower Upper

168 100

99 62.1 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): VN052130.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052130.D (-1740) (-)

7.67

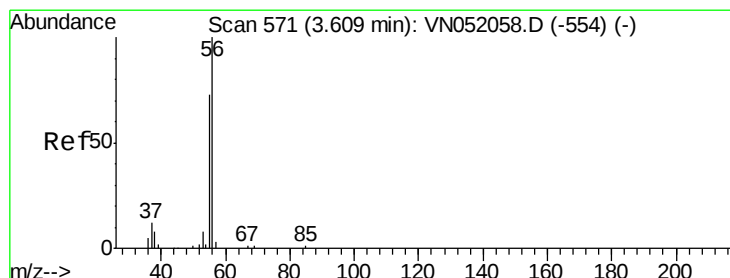
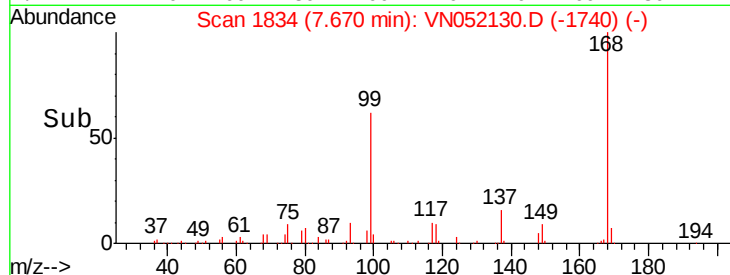
100000

50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#13

Acrolein

Concen: 24.155 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN052130.D

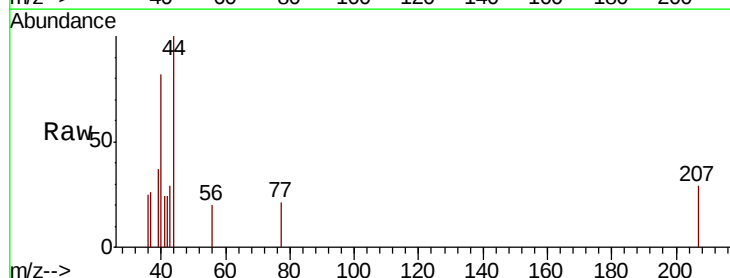
Acq: 2 Nov 2018 15:43

Tgt Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 0.0 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN052130.D (-478) (-)

Ion 55.00 (54.70 to 55.70): VN052130.D (-478) (-)

3.60

150

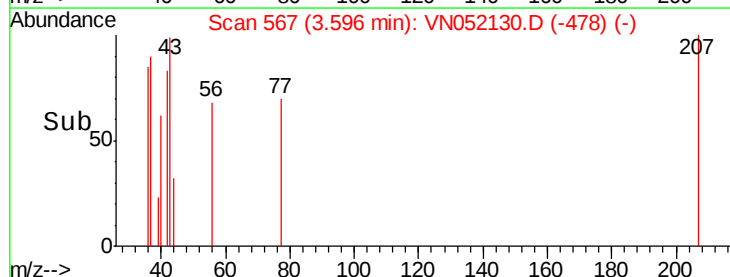
100

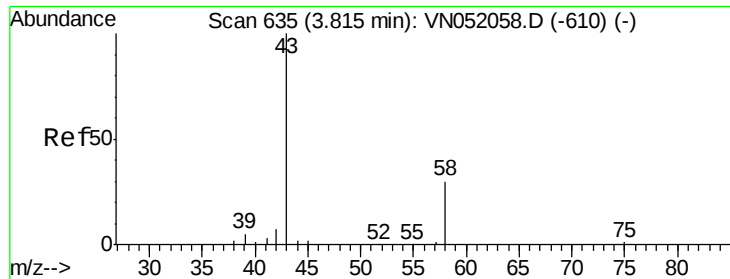
50

0

3.59 3.59 3.60 3.60 3.61

Time-->





#16

Acetone

Concen: 15.697 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

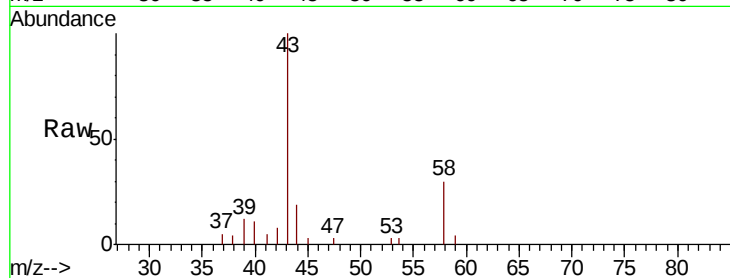
PB114370ZHE#19

Tot Ion: 43 Resp: 14911

Ion Ratio Lower Upper

43 100

58 30.0 24.2 36.2

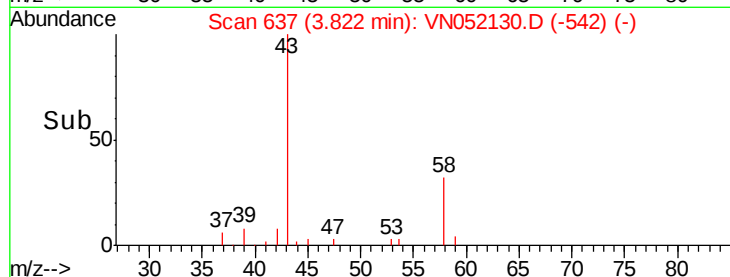


Abundance Ion 43.00 (42.70 to 43.70): VN052130.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN052130.D (-542) (-)

3.82

Time-->



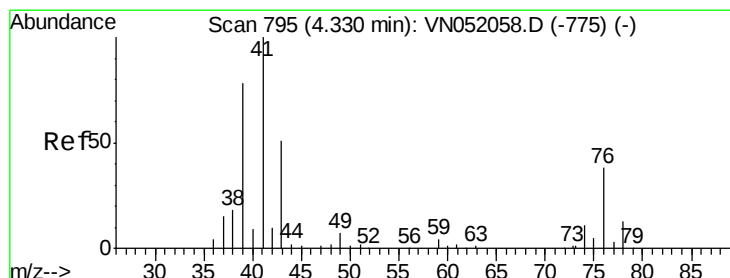
Abundance

Ion 43.00 (42.70 to 43.70): VN052130.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN052130.D (-542) (-)

3.82

Time-->



#18

Methyl Acetate

Concen: 1.220 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN052130.D

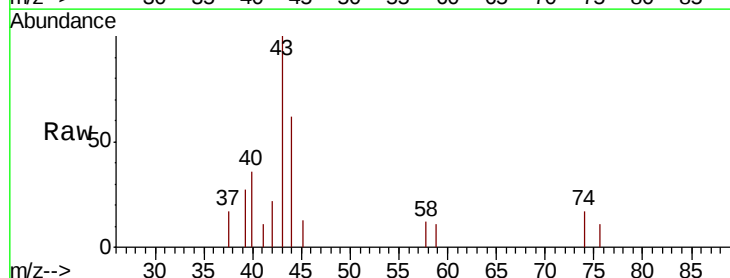
Acq: 2 Nov 2018 15:43

Tgt Ion: 43 Resp: 3690

Ion Ratio Lower Upper

43 100

74 17.9 17.9 26.9

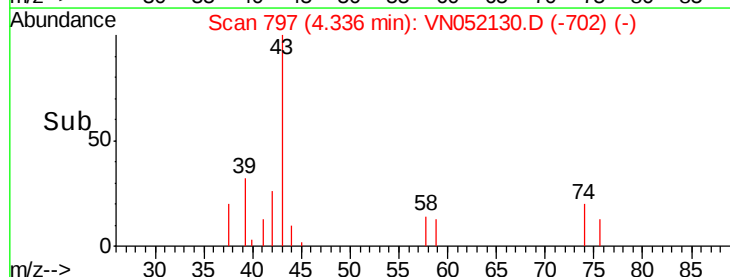


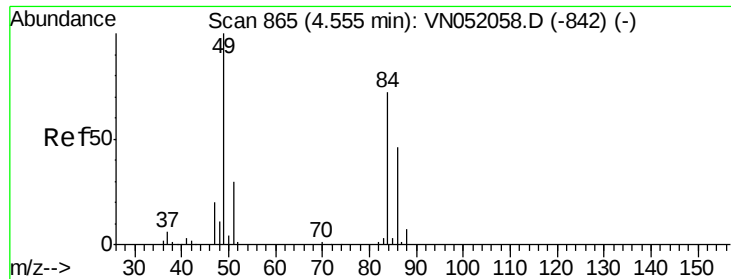
Abundance Ion 43.00 (42.70 to 43.70): VN052130.D (-702) (-)

Ion 74.00 (73.70 to 74.70): VN052130.D (-702) (-)

4.34

Time-->

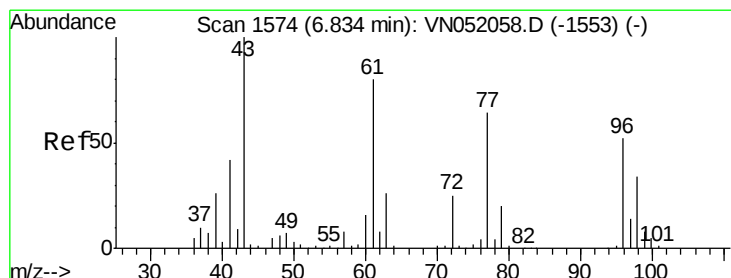
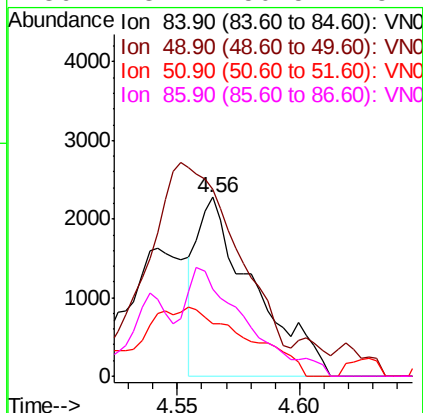
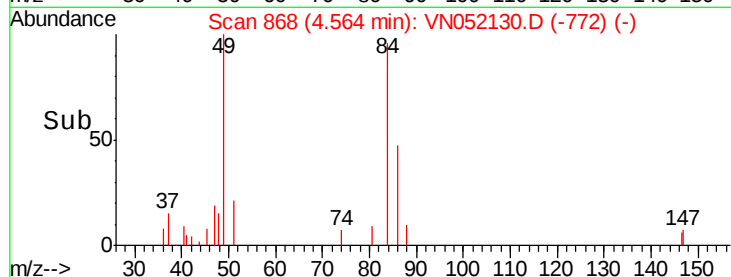
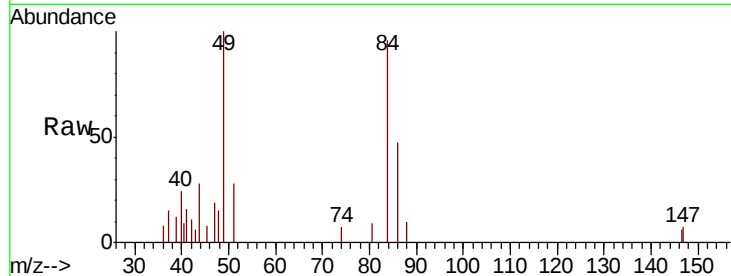




#20
Methvlene Chloride
Concen: 1.016 ug/l
RT: 4.56 min Scan# 868
Delta R.T. 0.01 min
Lab File: VN052130.D
Acq: 2 Nov 2018 15:43

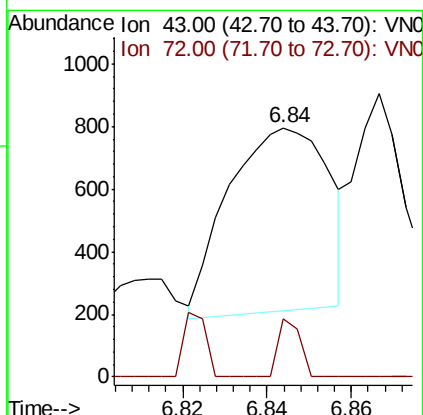
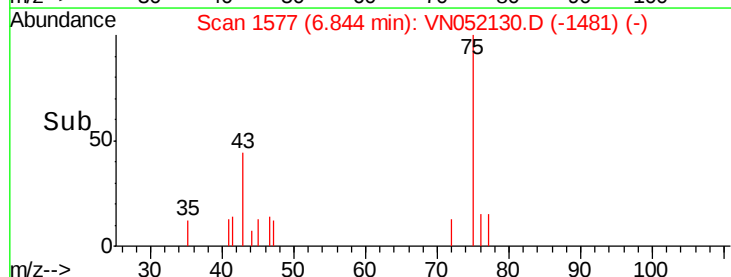
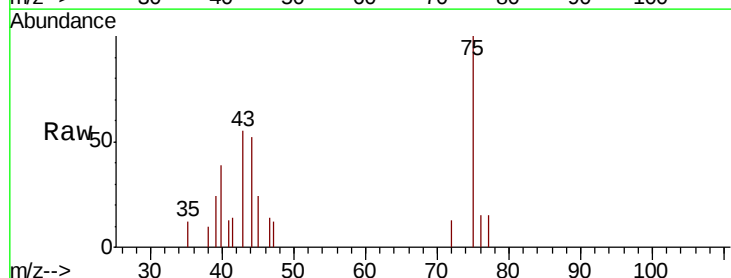
Instrument :
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PB114370ZHE#19

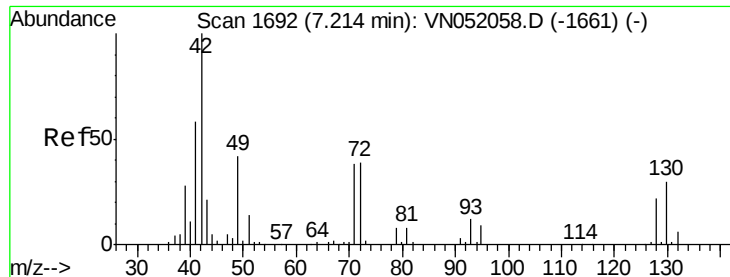
Tot Ion: 84 Resp: 3676
Ion Ratio Lower Upper
84 100
49 89.7 110.6 165.8#
51 29.2 33.7 50.5#
86 48.7 50.5 75.7#



#25
2-Butanone
Concen: 0.650 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052130.D
Acq: 2 Nov 2018 15:43

Tgt Ion: 43 Resp: 968
Ion Ratio Lower Upper
43 100
72 32.5 20.2 30.2#





#29

Tetrahydrofuran

Concen: 0.408 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. -0.01 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#19

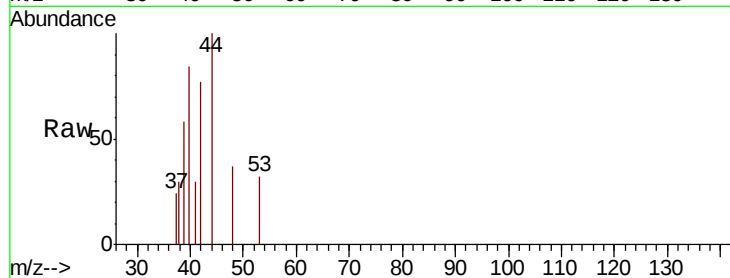
Tot Ion: 42 Resp: 405

Ion Ratio Lower Upper

42 100

72 84.7 32.5 48.7#

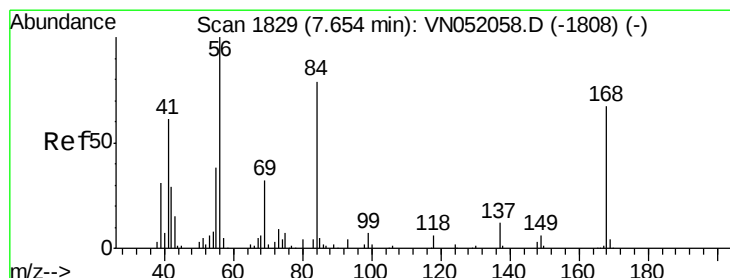
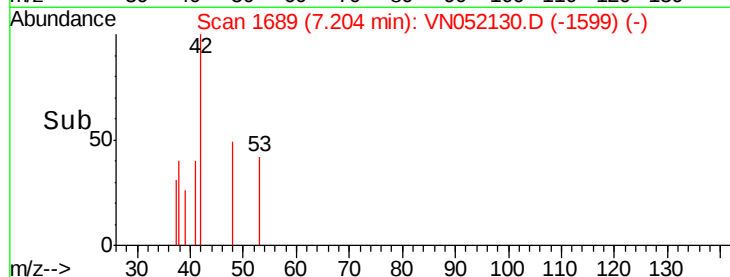
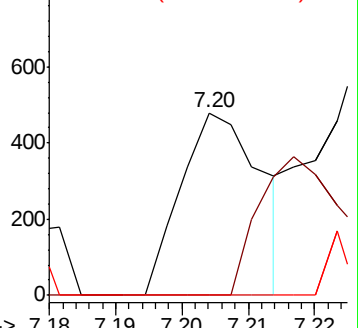
71 0.0 30.6 46.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

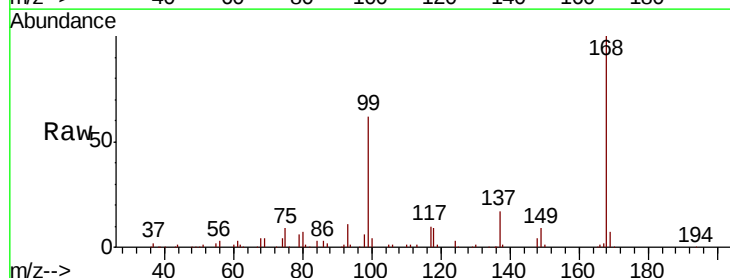
Tgt Ion: 56 Resp: 7224

Ion Ratio Lower Upper

56 100

69 160.4 25.8 38.6#

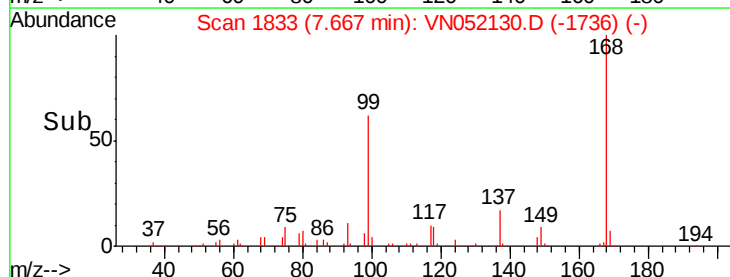
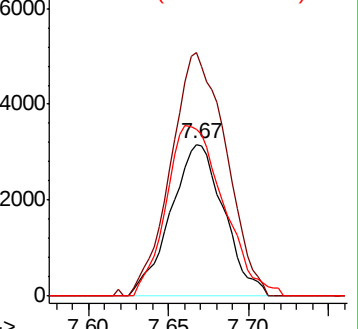
84 110.0 63.5 95.3#

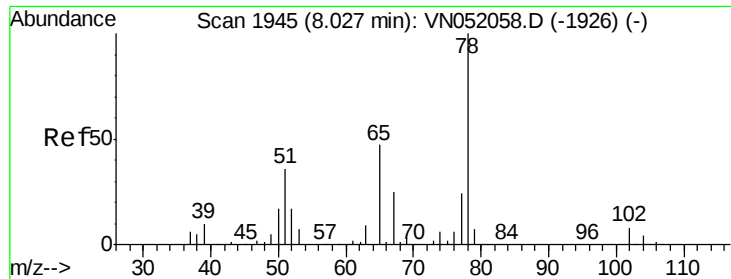


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

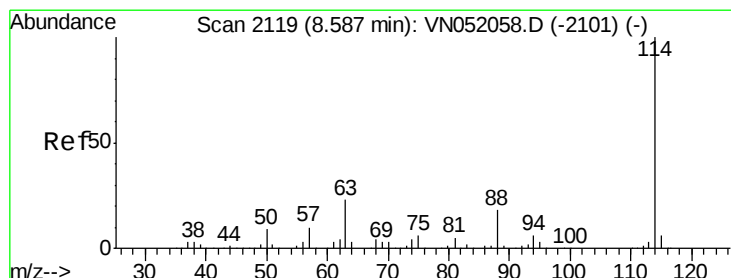
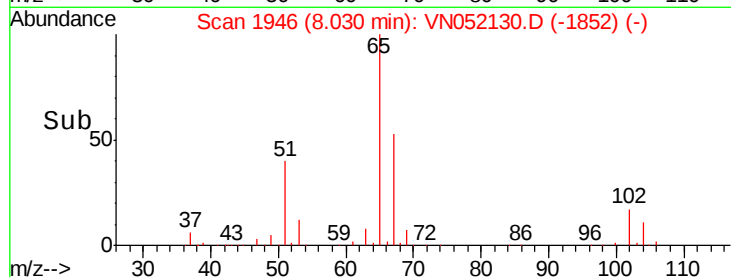
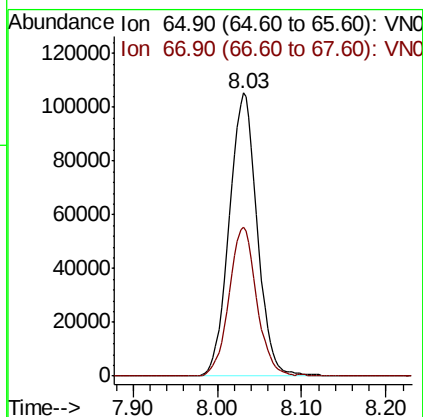
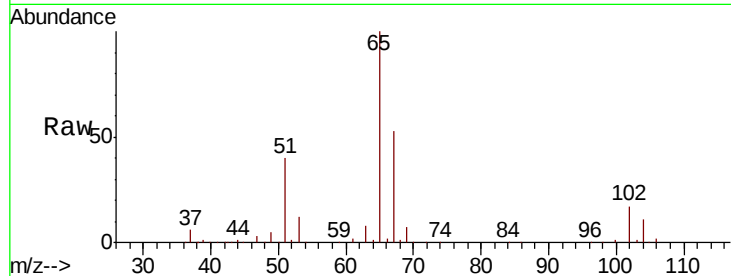




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052130.D
 Acq: 2 Nov 2018 15:43

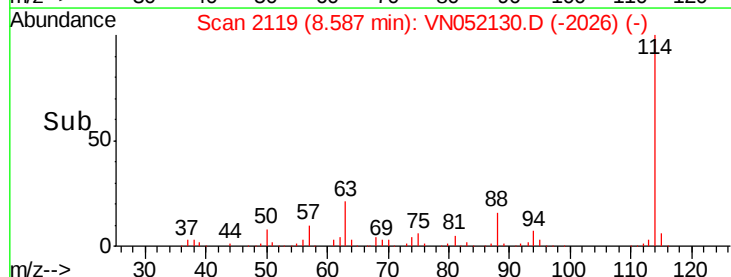
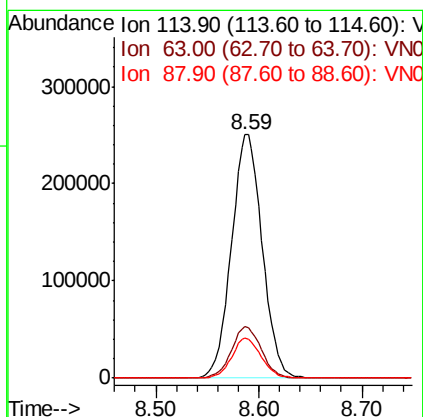
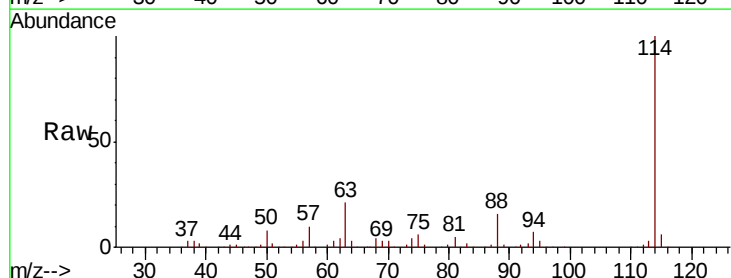
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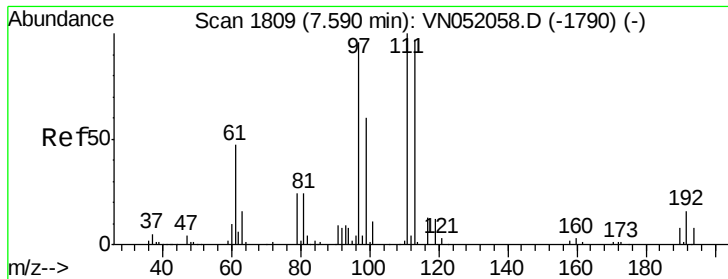
Tot Ion: 65 Resp: 242781
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052130.D
 Acq: 2 Nov 2018 15:43

Tgt Ion: 114 Resp: 519475
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 46.0
 88 16.4 0.0 35.4

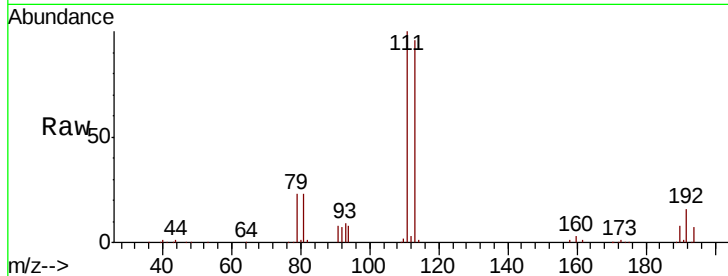




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052130.D
 Acq: 2 Nov 2018 15:43

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114370ZHE#19

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.4	83.1	124.7
192	17.0	12.7	19.1

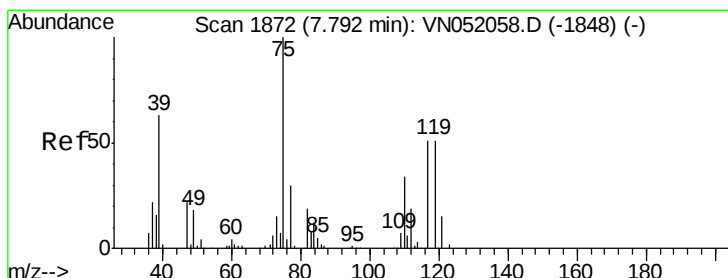
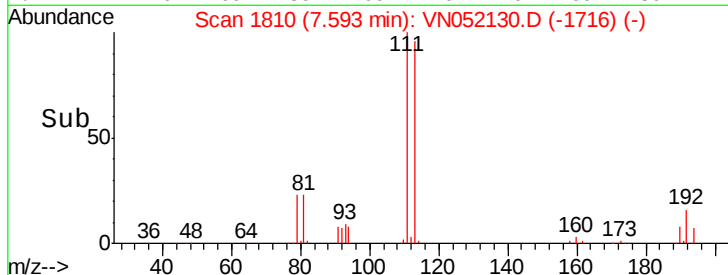
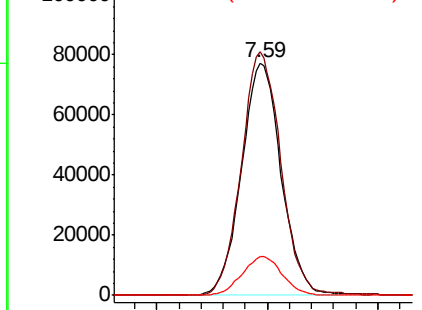


Abundance

Ion 112.80 (112.50 to 113.50): V

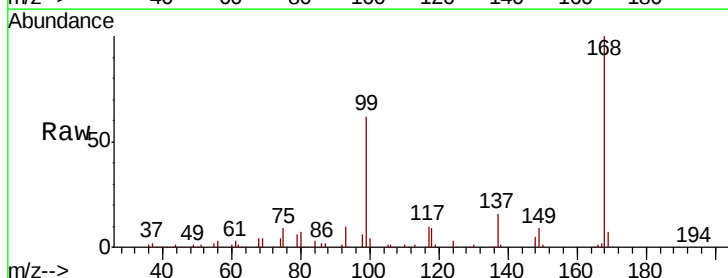
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.684 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN052130.D
 Acq: 2 Nov 2018 15:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	16.0	48.0#
77	0.0	24.5	36.7#

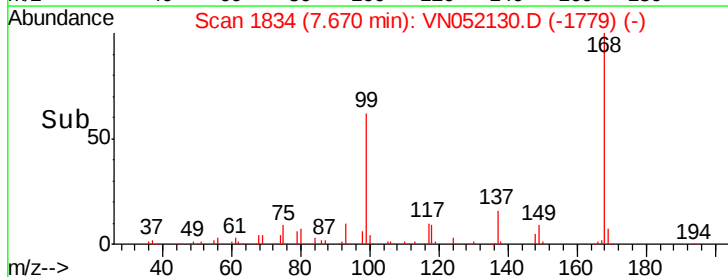
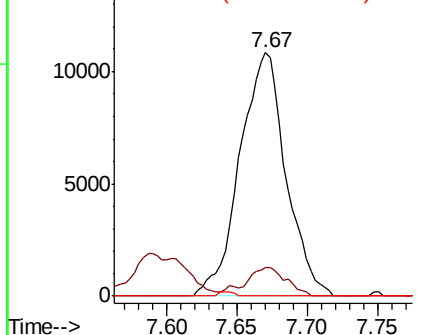


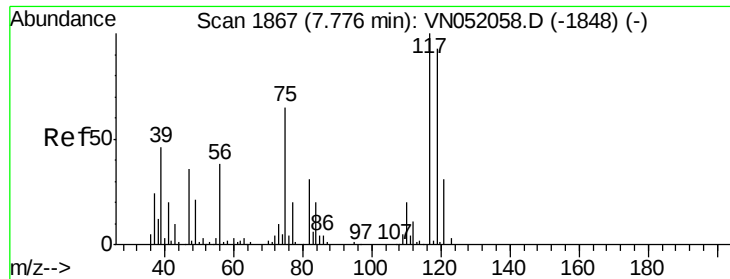
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.420 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#19

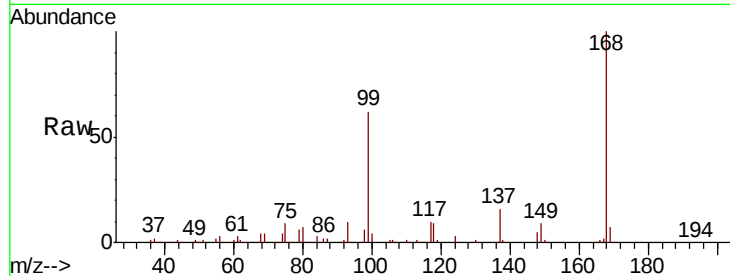
Tot Ion:117 Resp: 29238

Ion Ratio Lower Upper

117 100

119 5.7 74.8 112.2#

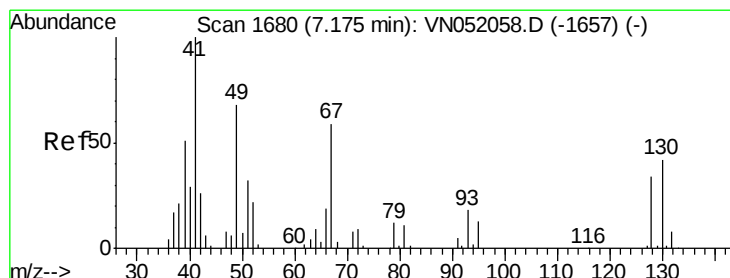
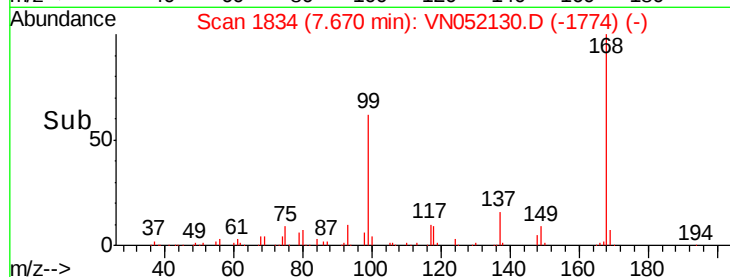
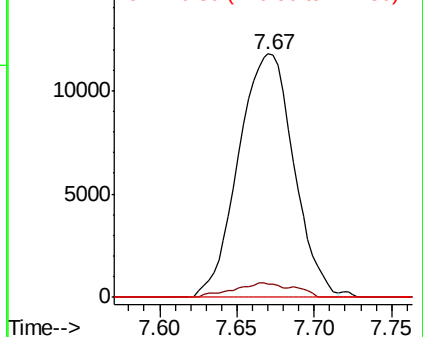
121 0.0 25.1 37.7#



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



#41

Methacrylonitrile

Concen: 0.200 ug/l

RT: 7.15 min Scan# 1672

Delta R.T. -0.03 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

Tgt Ion: 41 Resp: 106

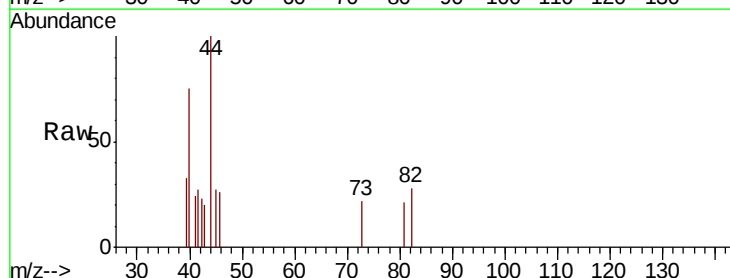
Ion Ratio Lower Upper

41 100

39 408.5 33.2 49.8#

67 0.0 63.5 95.3#

52 65.1 25.6 38.4#

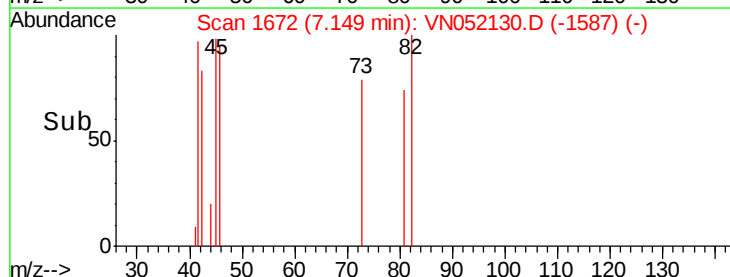
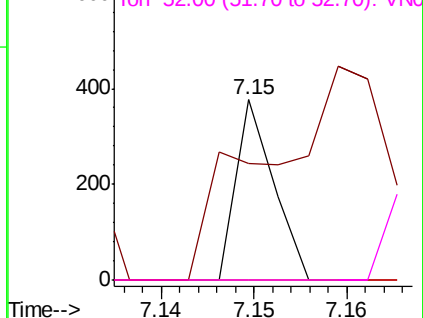


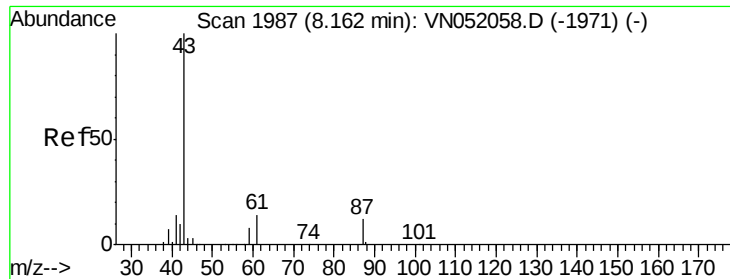
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 30.759 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#19

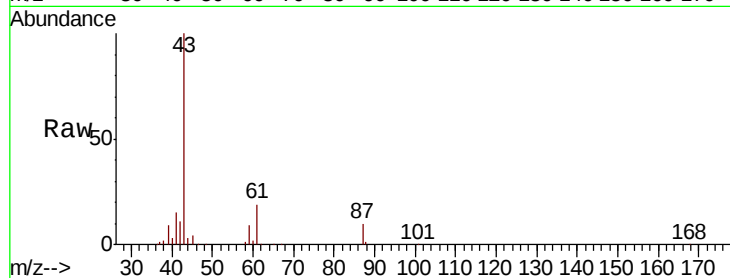
Tot Ion: 43 Resp: 193417

Ion Ratio Lower Upper

43 100

61 18.5 15.4 23.0

87 10.8 9.8 14.8

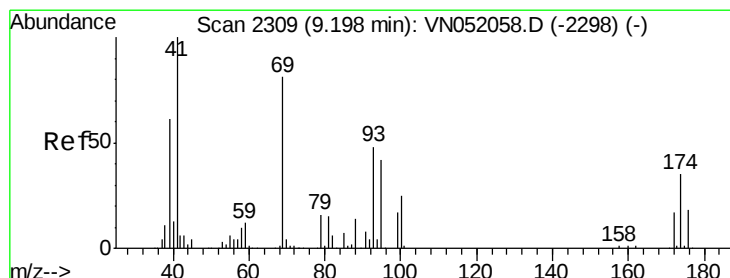
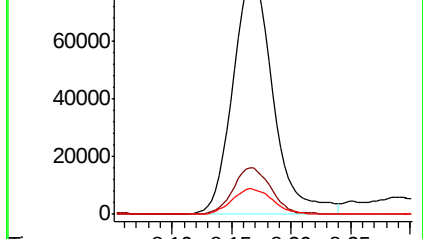
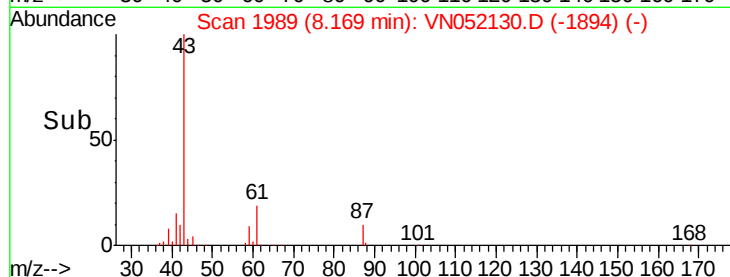


Abundance Ion 43.00 (42.70 to 43.70): VN052130.D (-1989) (-)

Ion 61.00 (60.70 to 61.70): VN052130.D (-1989) (-)

Ion 87.00 (86.70 to 87.70): VN052130.D (-1989) (-)

8.17



#48

Methyl methacrylate

Concen: 1.442 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

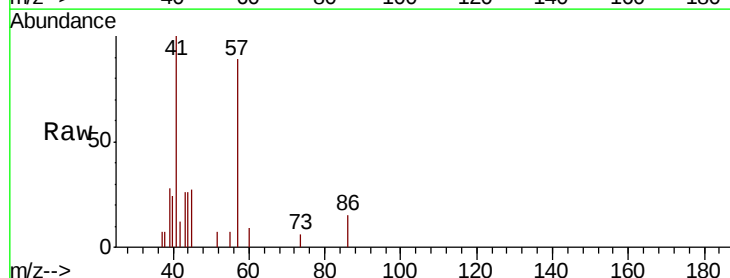
Tgt Ion: 41 Resp: 4598

Ion Ratio Lower Upper

41 100

69 0.7 67.1 100.7#

39 24.0 50.5 75.7#

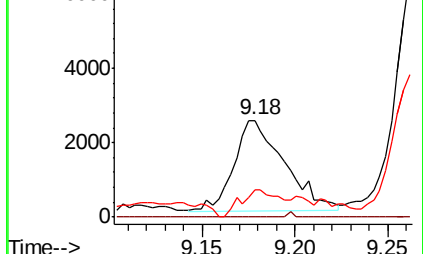
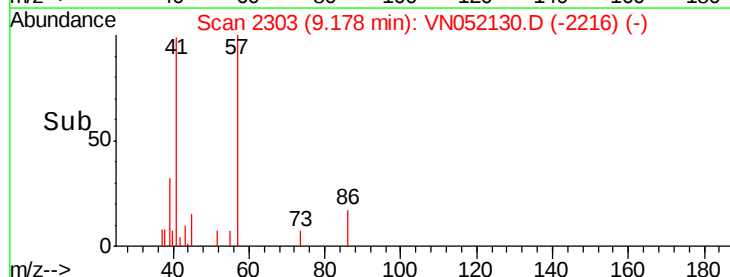


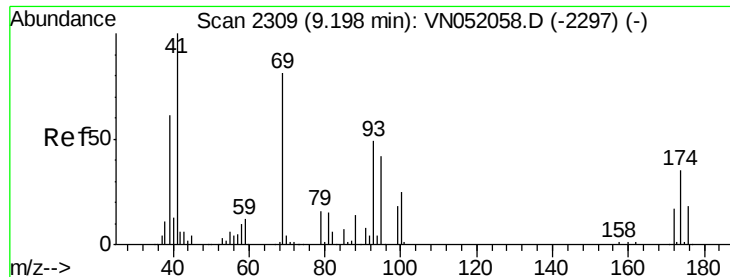
Abundance Ion 41.00 (40.70 to 41.70): VN052130.D (-2303) (-)

Ion 69.00 (68.70 to 69.70): VN052130.D (-2303) (-)

Ion 39.00 (38.70 to 39.70): VN052130.D (-2303) (-)

9.18





#49

1,4-Dioxane

Concen: 27.249 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.06 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#19

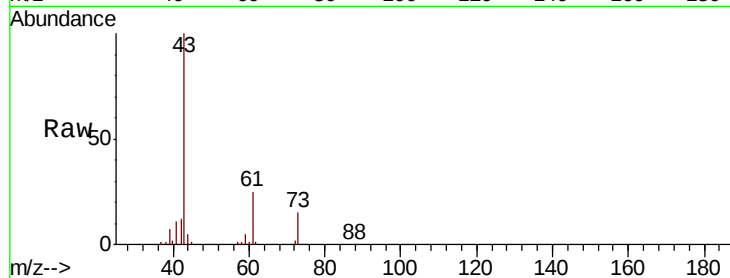
Tot Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 247951.7 34.1 51.1#

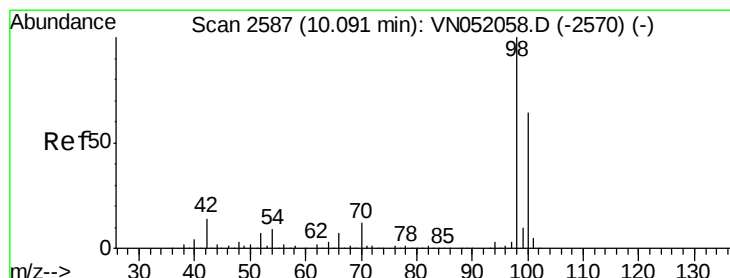
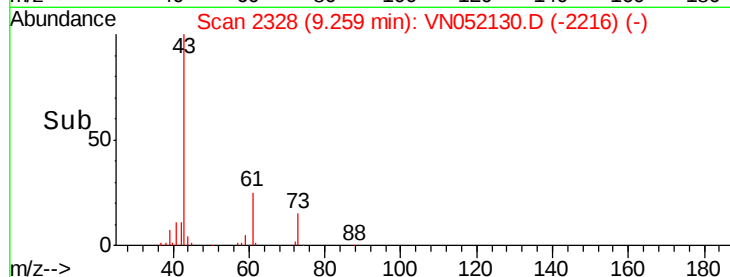
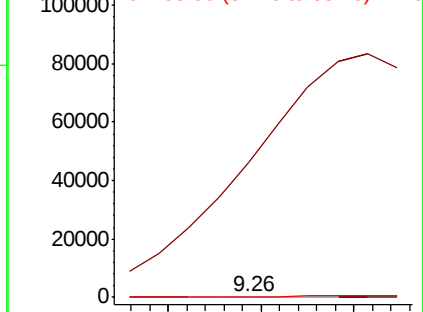
58 1416.7 62.8 94.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 27.249 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052130.D

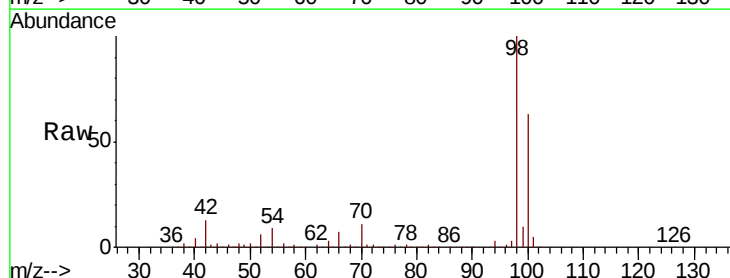
Acq: 2 Nov 2018 15:43

Tgt Ion: 98 Resp: 777654

Ion Ratio Lower Upper

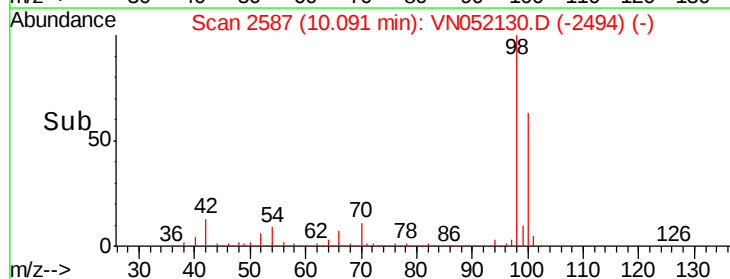
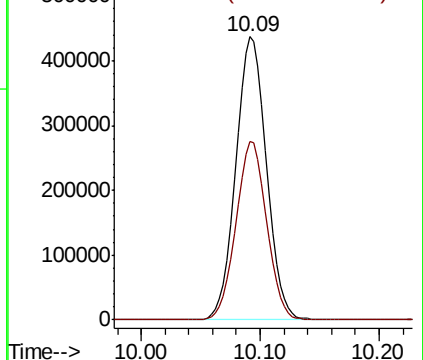
98 100

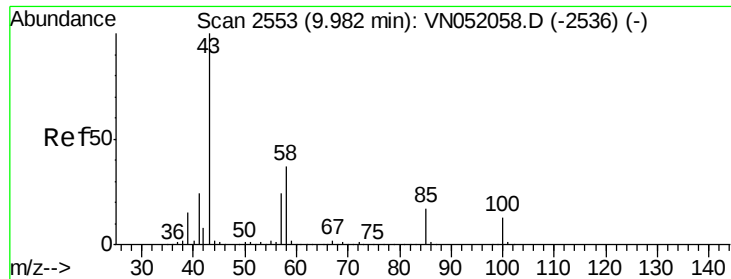
100 63.1 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.391 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.01 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

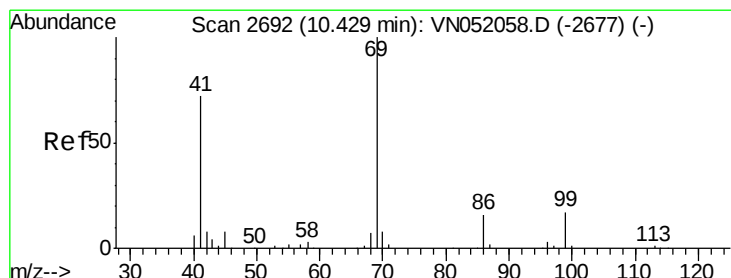
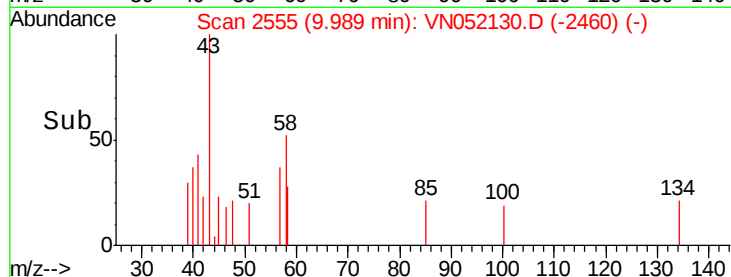
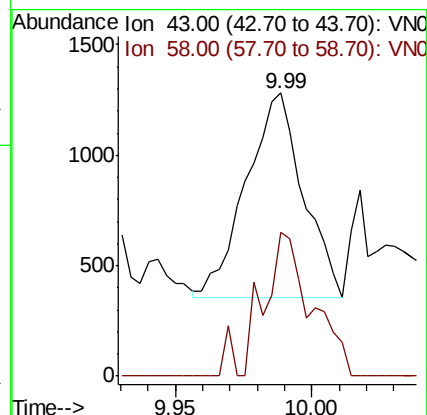
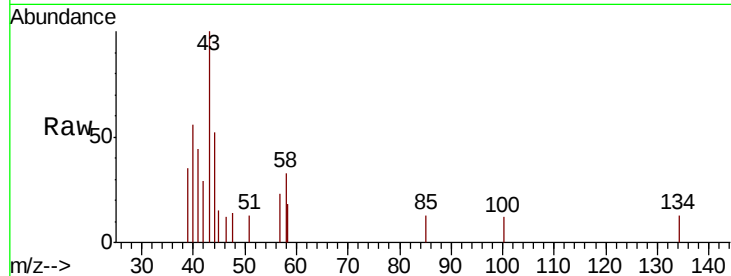
PB114370ZHE#19

Tot Ion: 43 Resp: 1338

Ion Ratio Lower Upper

43 100

58 57.6 29.7 44.5#



#56

Ethyl methacrylate

Concen: 0.306 ug/l

RT: 10.23 min Scan# 2629

Delta R.T. -0.20 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

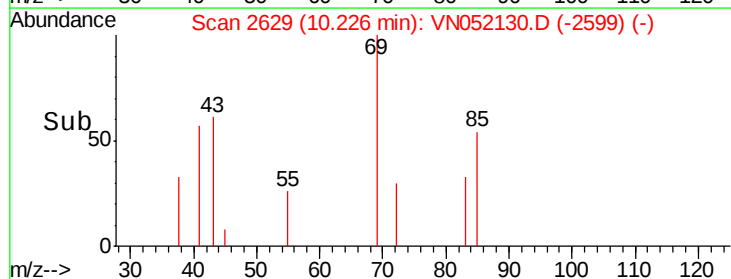
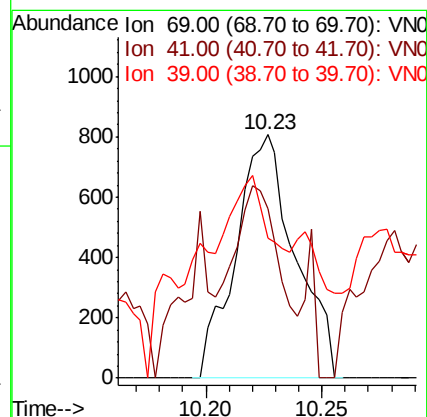
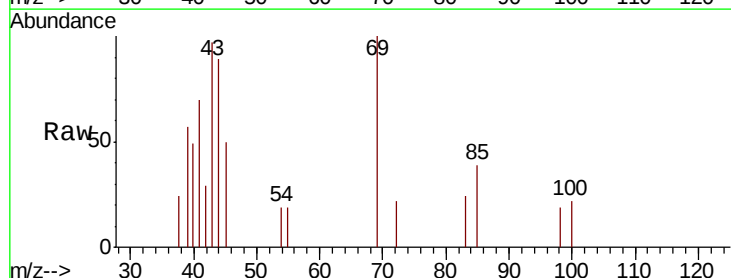
Tgt Ion: 69 Resp: 1436

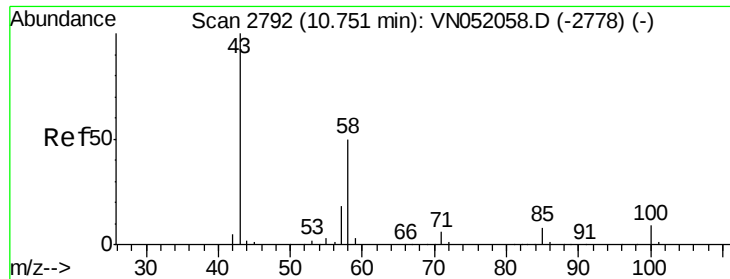
Ion Ratio Lower Upper

69 100

41 35.9 55.5 83.3#

39 47.5 33.0 49.4





#59

2-Hexanone

Concen: 5.379 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

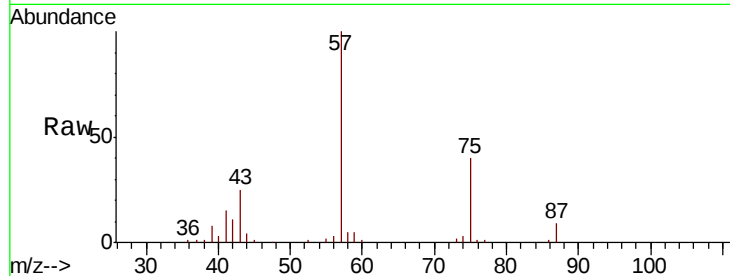
PB114370ZHE#19

Tot Ion: 43 Resp: 13102

Ion Ratio Lower Upper

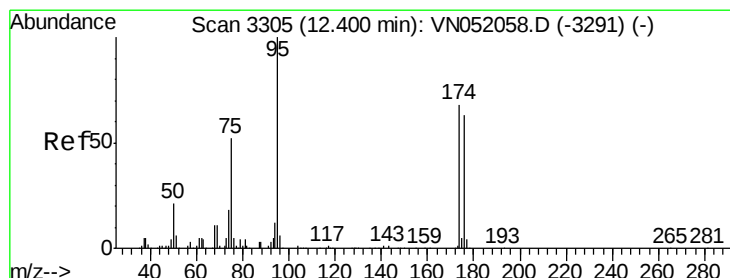
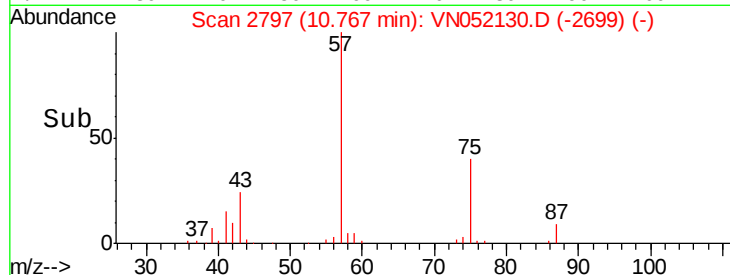
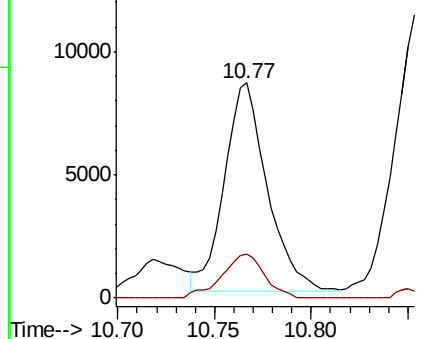
43 100

58 20.8 25.2 75.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

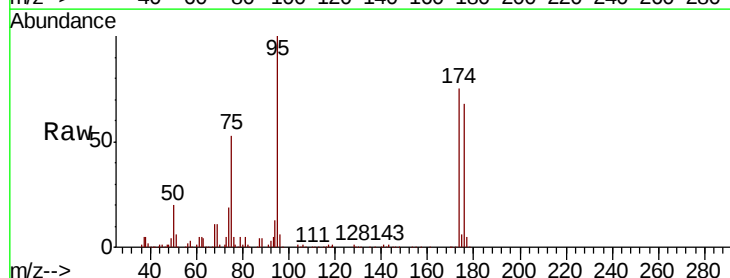
Tgt Ion: 95 Resp: 269305

Ion Ratio Lower Upper

95 100

174 73.6 0.0 131.8

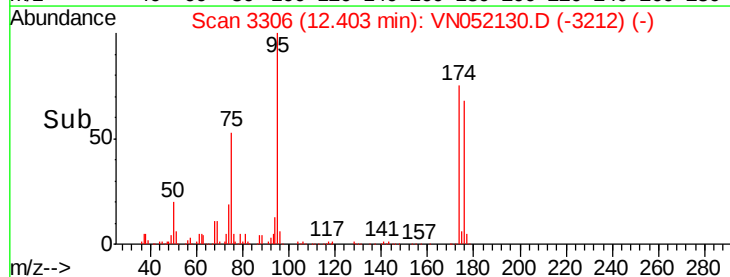
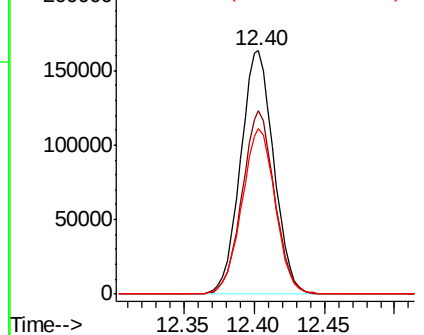
176 68.4 0.0 126.0

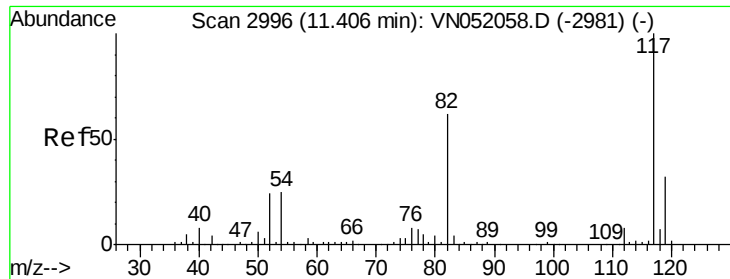


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#19

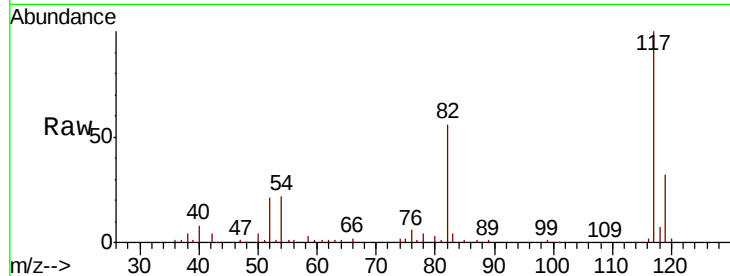
Tot Ion:117 Resp: 505822

Ion Ratio Lower Upper

117 100

82 56.2 49.9 74.9

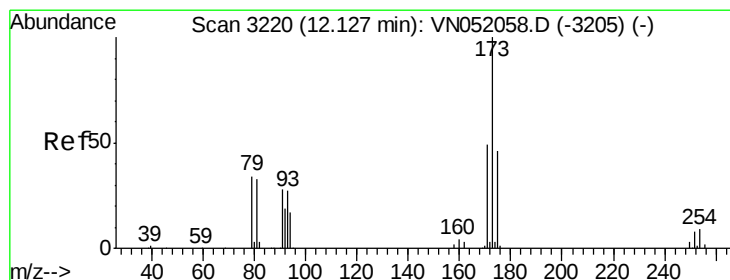
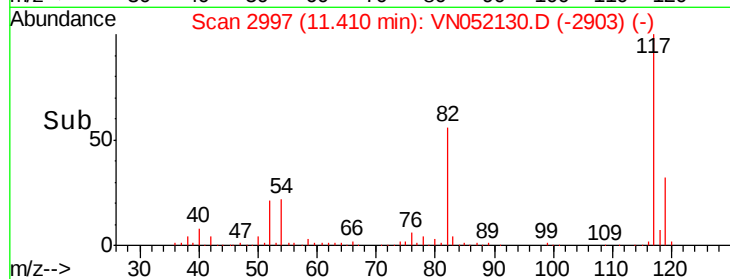
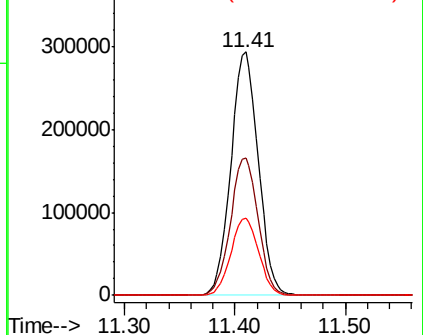
119 31.7 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 2.340 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.26 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

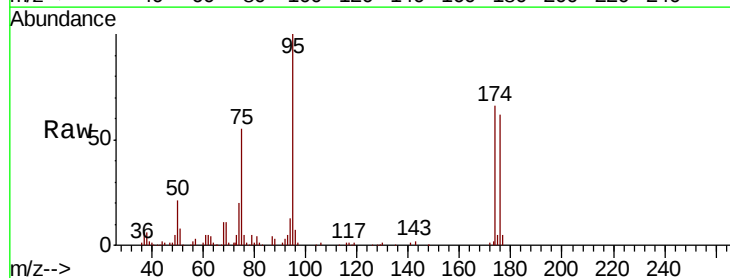
Tgt Ion:173 Resp: 364

Ion Ratio Lower Upper

173 100

175 0.0 23.9 71.7#

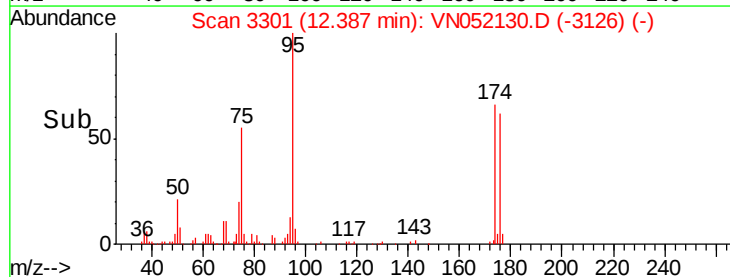
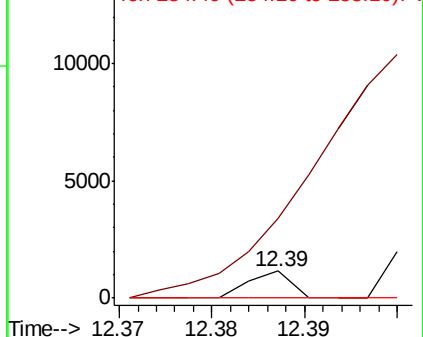
254 0.0 0.0 0.0

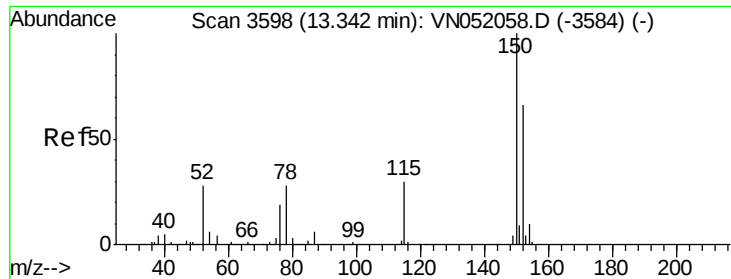


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052130.D

Acq: 2 Nov 2018 15:43

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#19

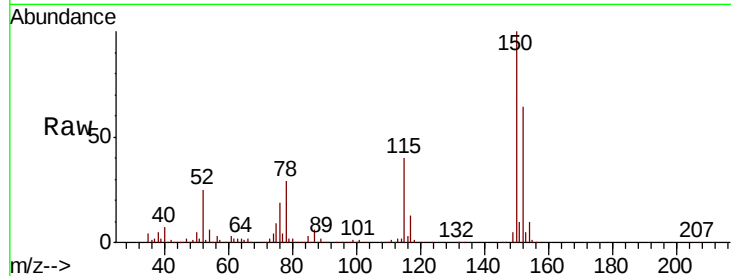
Tot Ion:152 Resp: 207866

Ion Ratio Lower Upper

152 100

115 61.9 31.6 95.0

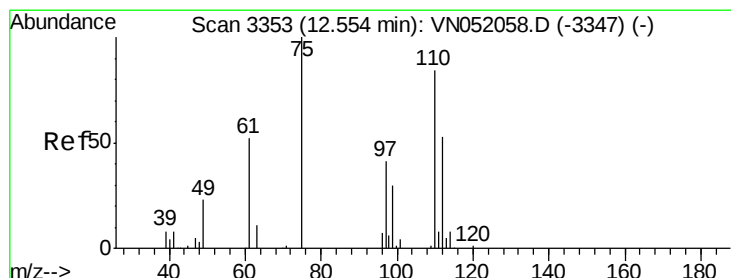
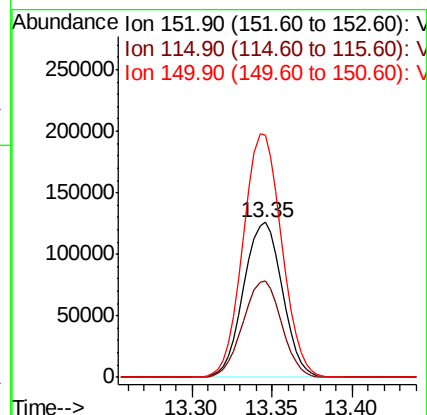
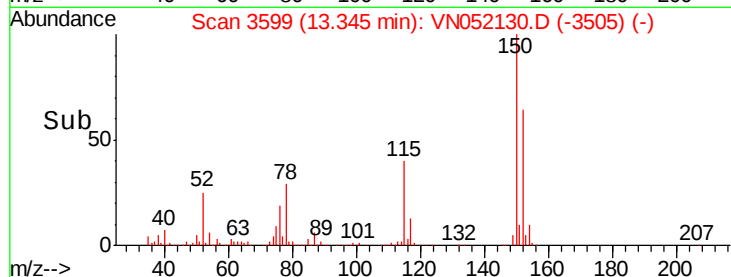
150 156.6 0.0 345.0



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



#76

1,2,3-Trichloropropane

Concen: 37.605 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052130.D

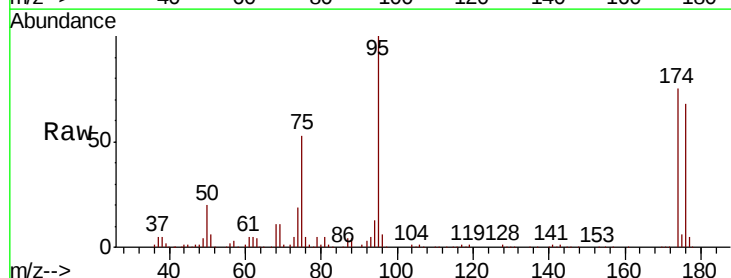
Acq: 2 Nov 2018 15:43

Tgt Ion: 75 Resp: 143090

Ion Ratio Lower Upper

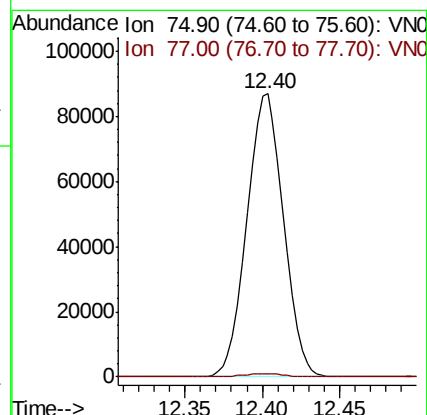
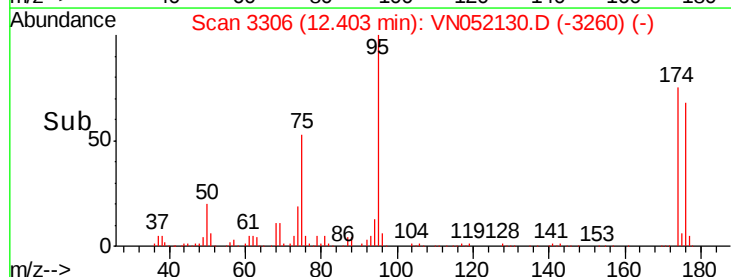
75 100

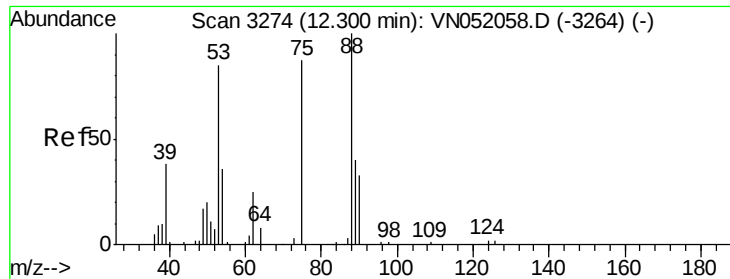
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

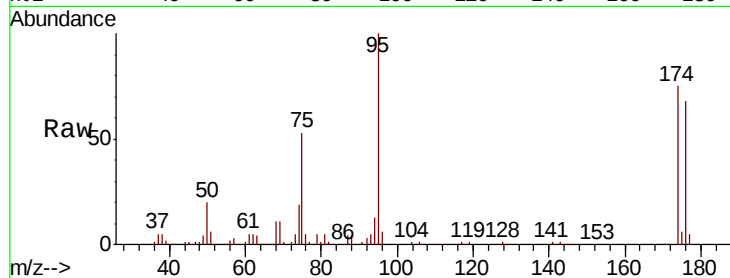




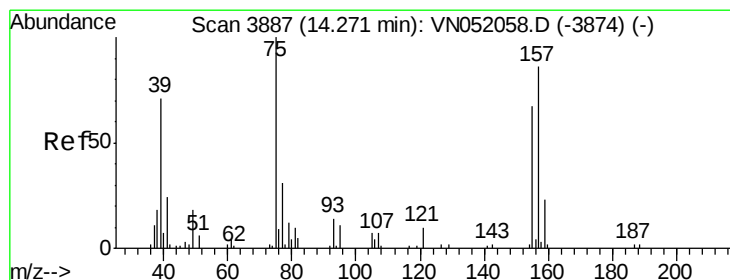
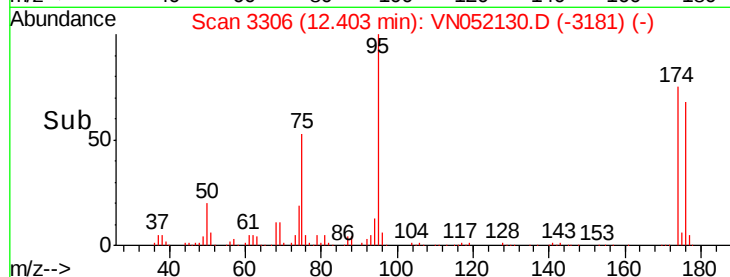
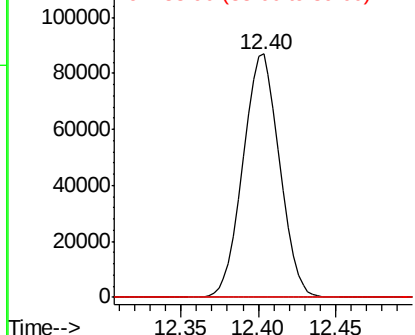
#81
trans-1,4-Dichloro-2-butene
Concen: 124.817 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN052130.D
Acq: 2 Nov 2018 15:43

Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#19

Tot Ion: 75 Resp: 143090
Ion Ratio Lower Upper
75 100
53 0.0 81.8 122.6#
89 0.0 36.6 54.8#

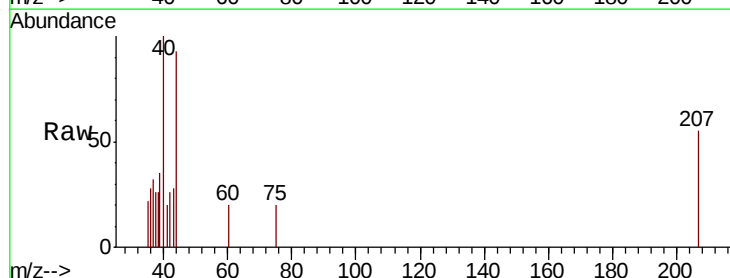


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.968 ug/l
RT: 14.22 min Scan# 3871
Delta R.T. -0.05 min
Lab File: VN052130.D
Acq: 2 Nov 2018 15:43

Tgt Ion: 75 Resp: 31
Ion Ratio Lower Upper
75 100
155 0.0 34.0 102.0#
157 0.0 42.1 126.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V

