

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053011.D
 Acq On : 19 Dec 2018 15:16
 Operator : MD\SY
 Sample : PB115821ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115821ZHE#01

Quant Time: Dec 20 05:20:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1449800	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2240240	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1987808	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	768231	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	731251	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
35) Dibromofluoromethane	7.59	113	554824	54.22	ug/l	0.00
Spiked Amount			Recovery	=	108.44%	
50) Toluene-d8	10.09	98	2727470	49.65	ug/l	0.00
Spiked Amount			Recovery	=	99.30%	
62) 4-Bromofluorobenzene	12.40	95	876361	45.44	ug/l	0.00
Spiked Amount			Recovery	=	90.88%	

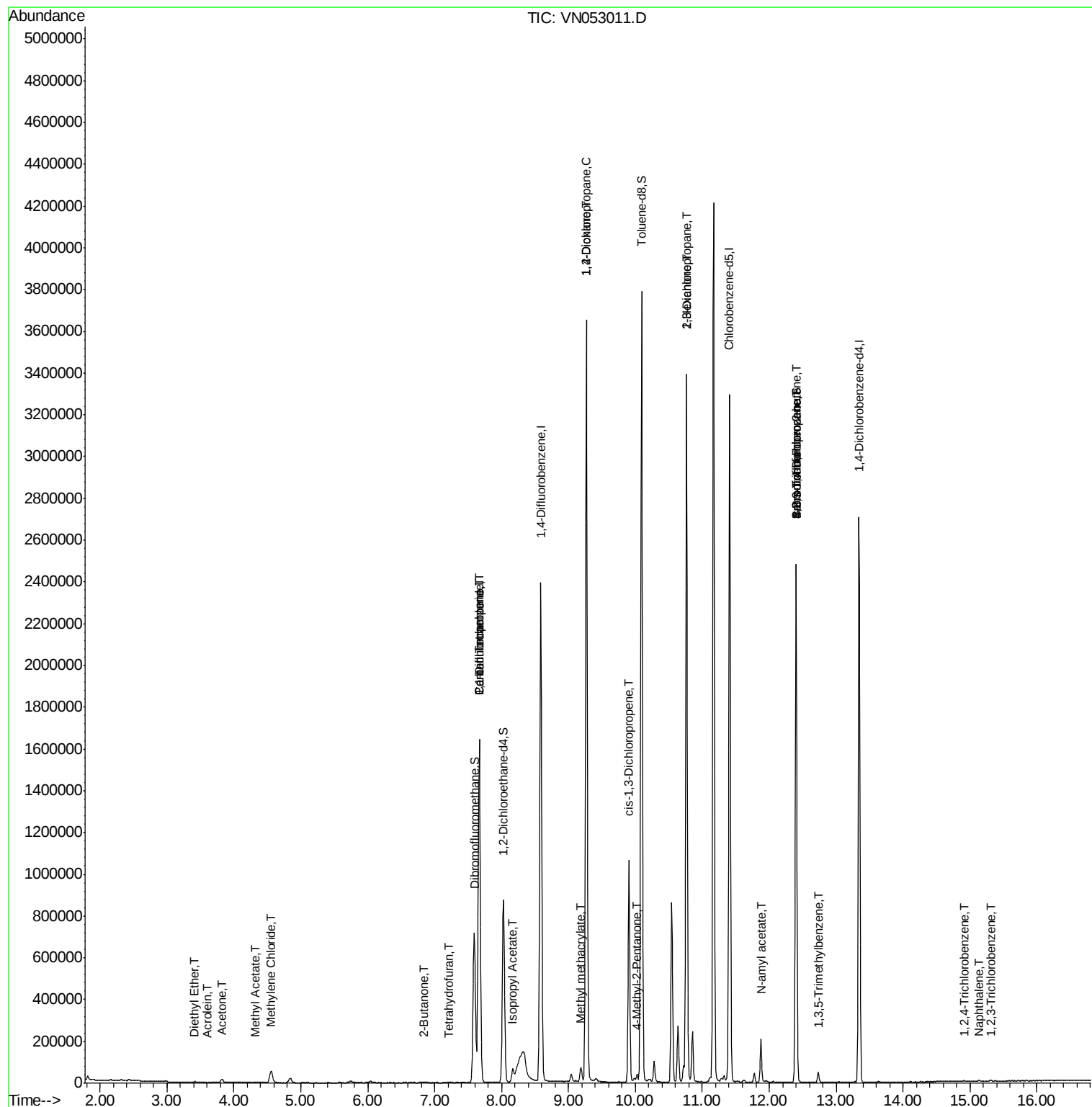
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	2311	0.273	ug/l #	43
13) Acrolein	3.61	56	189	0.232	ug/l #	75
16) Acetone	3.82	43	27842	9.652	ug/l	96
18) Methyl Acetate	4.33	43	6730	1.496	ug/l #	79
20) Methylene Chloride	4.56	84	42645	2.710	ug/l	96
25) 2-Butanone	6.84	43	3102	0.641	ug/l	93
29) Tetrahydrofuran	7.21	42	1003	0.277	ug/l #	46
31) Cyclohexane	7.66	56	23498	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	94928	4.415	ug/l #	48
38) Carbon Tetrachloride	7.67	117	126243	6.405	ug/l #	16
43) Isopropyl Acetate	8.17	43	82430	2.557	ug/l #	83
45) 1,2-Dichloropropane	9.27	63	4497	0.270	ug/l #	44
48) Methyl methacrylate	9.18	41	24989	2.145	ug/l #	12
49) 1,4-Dioxane	9.27	88	482	3.271	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	30033	2.584	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	205320	8.246	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	35647	1.503	ug/l #	43
59) 2-Hexanone	10.76	43	483667	61.496	ug/l #	50
71) Bromoform	12.40	173	5300	0.479	ug/l #	1
74) N-amyl acetate	11.88	43	61710	3.698	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	408224	31.566	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	23745	0.485	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	408224	101.741	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	1351	0.693	ug/l #	87
94) Hexachlorobutadiene	15.01	225	70	Below Cal	#	19
95) Naphthalene	15.13	128	3590	1.263	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.31	180	1264	0.609	ug/l	93

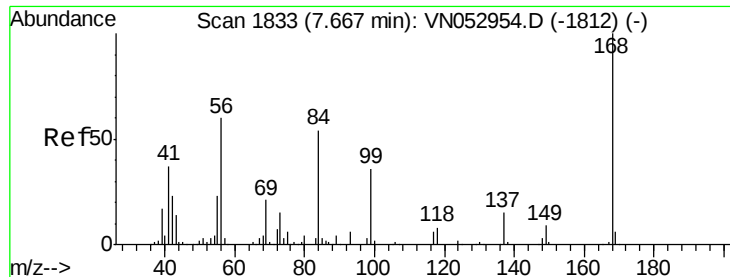
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 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: VN053011.D

Acq: 19 Dec 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

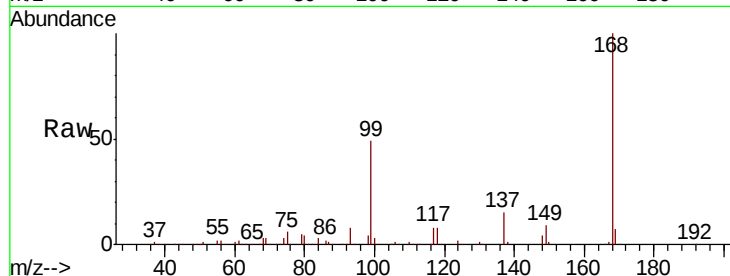
PB115821ZHE#01

Tot Ion:168 Resp: 1449800

Ion Ratio Lower Upper

168 100

99 49.1 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

600000

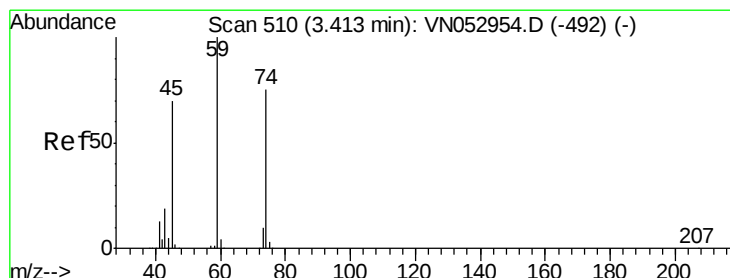
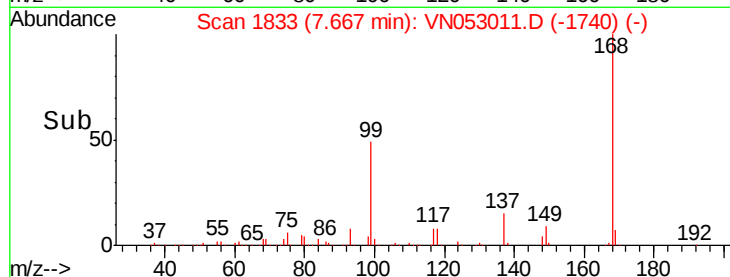
400000

200000

0

7.60 7.70 7.80

Time-->



#8

Diethyl Ether

Concen: 0.273 ug/l

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN053011.D

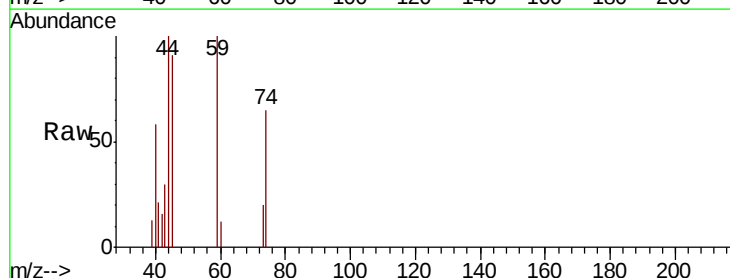
Acq: 19 Dec 2018 15:16

Tgt Ion: 74 Resp: 2311

Ion Ratio Lower Upper

74 100

45 154.8 49.4 148.0#



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.41

1500

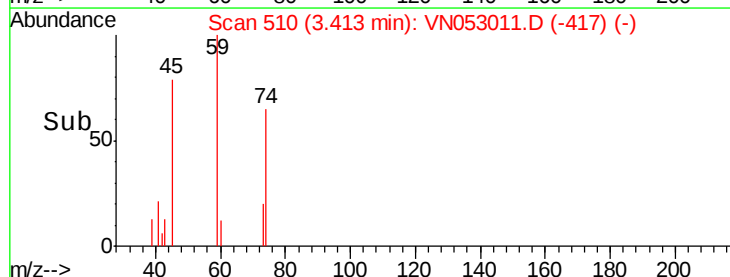
1000

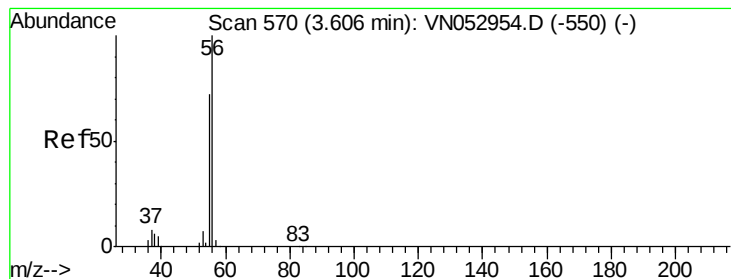
500

0

3.35 3.40 3.45

Time-->





#13

Acrolein

Concen: 0.232 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053011.D

Acq: 19 Dec 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

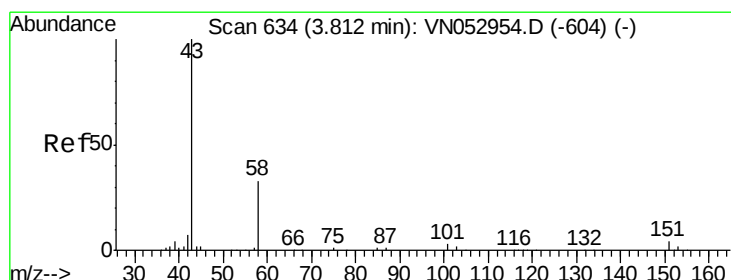
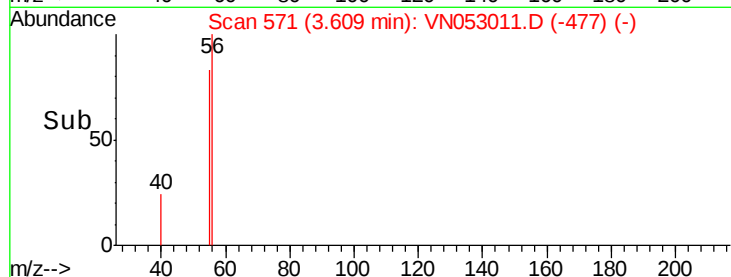
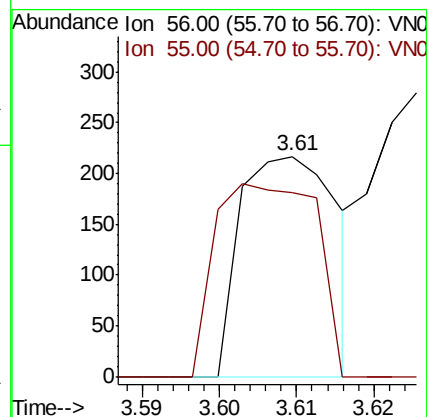
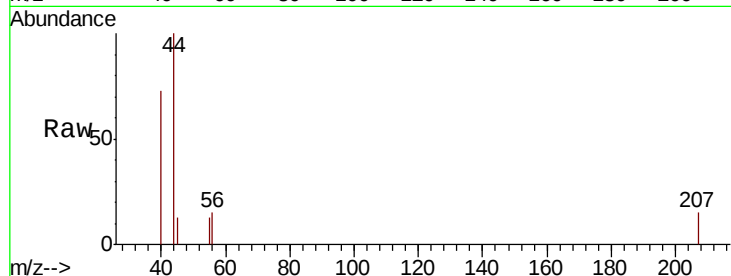
PB115821ZHE#01

Tot Ion: 56 Resp: 189

Ion Ratio Lower Upper

56 100

55 91.5 56.6 85.0#



#16

Acetone

Concen: 9.652 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053011.D

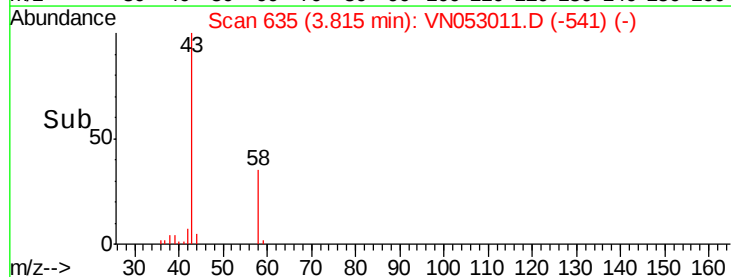
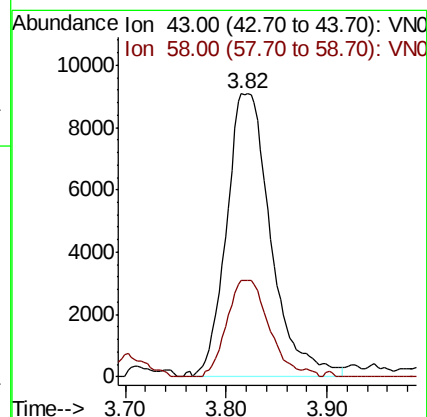
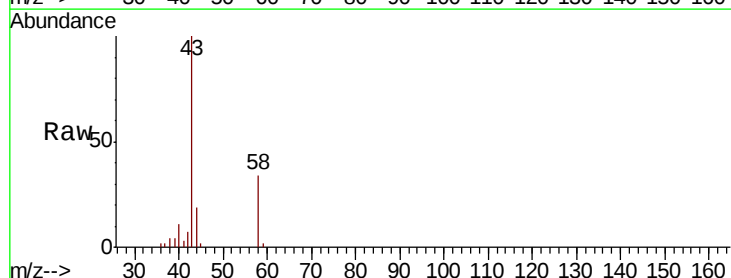
Acq: 19 Dec 2018 15:16

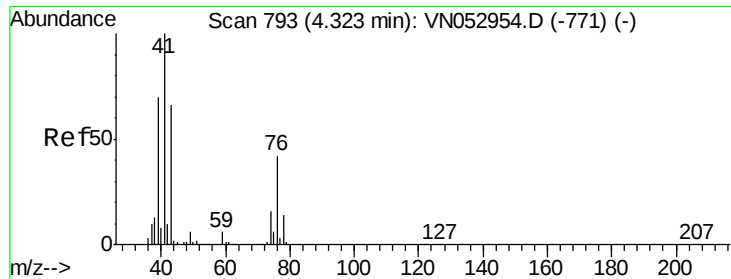
Tgt Ion: 43 Resp: 27842

Ion Ratio Lower Upper

43 100

58 34.0 25.4 38.0

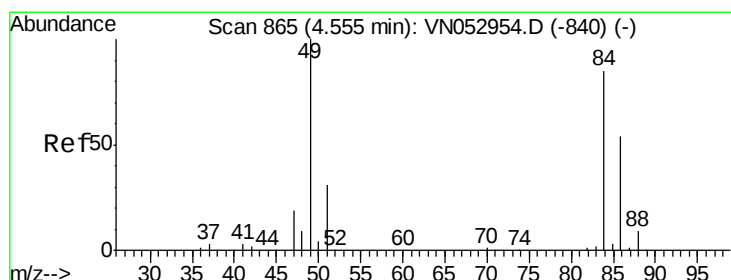
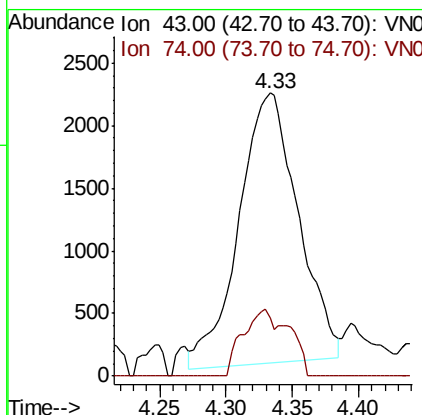
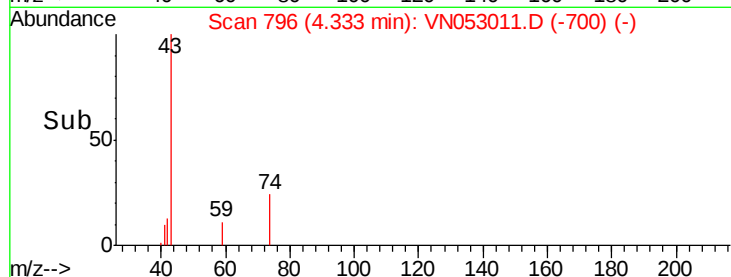
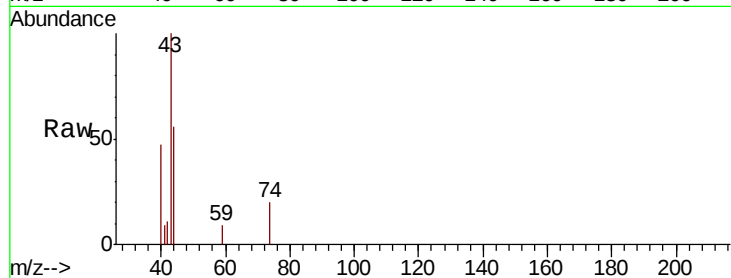




#18
Methyl Acetate
Concen: 1.496 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN053011.D
Acq: 19 Dec 2018 15:16

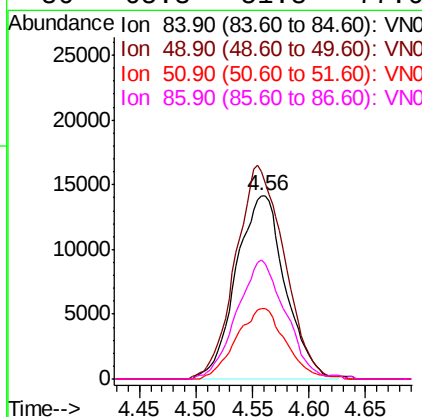
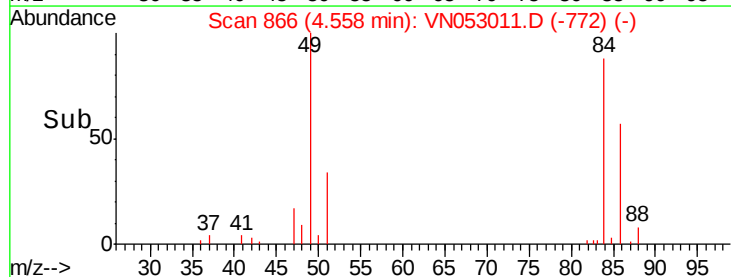
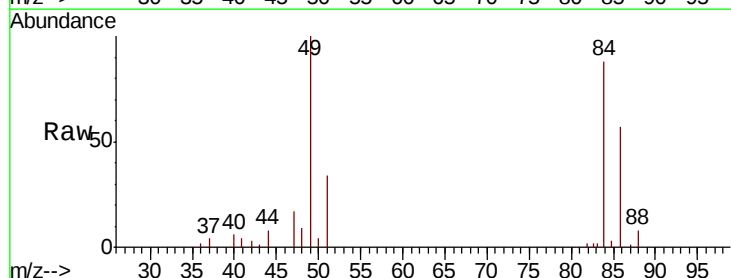
Instrument :
MSVOA_N
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PB115821ZHE#01

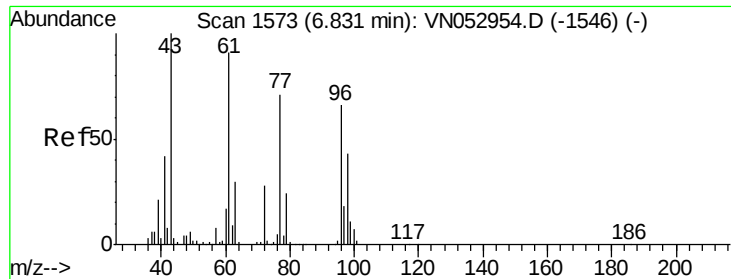
Tot Ion: 43 Resp: 6730
Ion Ratio Lower Upper
43 100
74 13.5 19.2 28.8#



#20
Methylene Chloride
Concen: 2.710 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN053011.D
Acq: 19 Dec 2018 15:16

Tgt Ion: 84 Resp: 42645
Ion Ratio Lower Upper
84 100
49 113.6 96.8 145.2
51 38.6 29.9 44.9
86 65.3 51.8 77.6

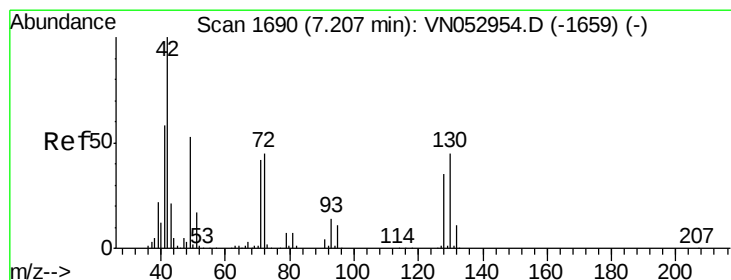
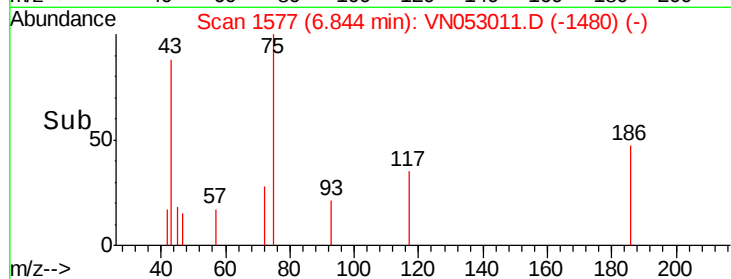
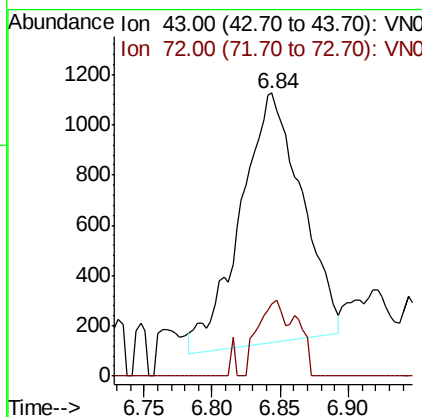
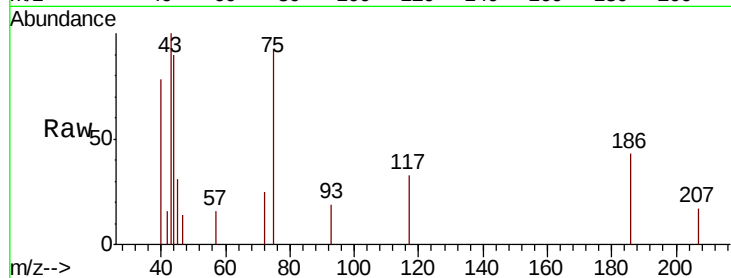




#25
2-Butanone
Concen: 0.641 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053011.D
Acq: 19 Dec 2018 15:16

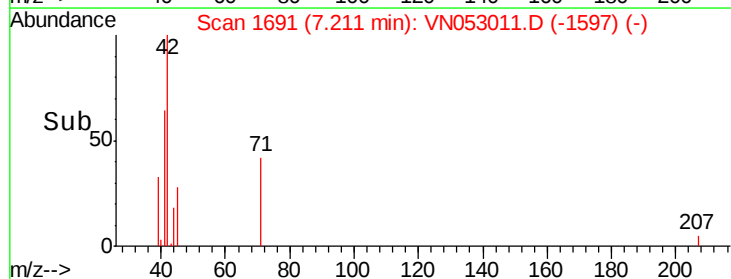
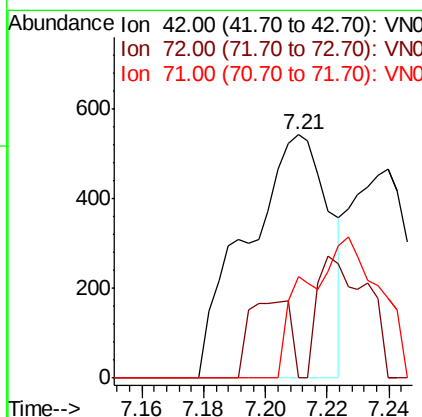
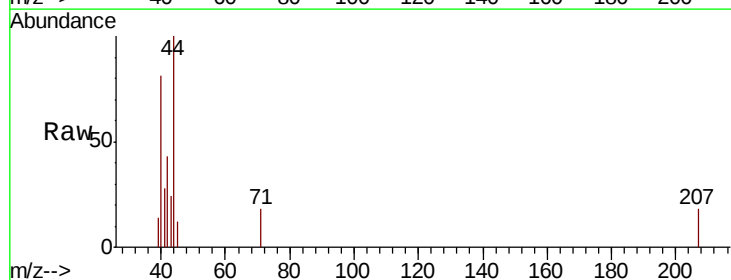
Instrument :
MSVOA_N
ClientSampleId :
PB115821ZHE#01

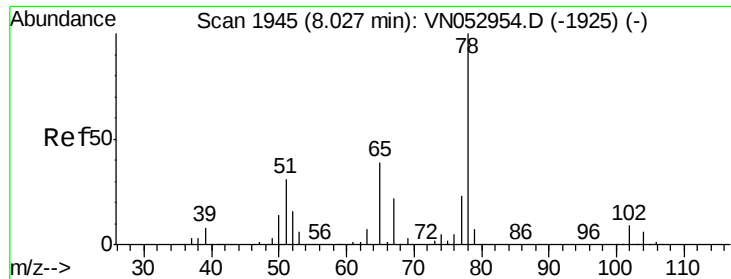
Tot Ion: 43 Resp: 3102
Ion Ratio Lower Upper
43 100
72 30.1 21.0 31.6



#29
Tetrahydrofuran
Concen: 0.277 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053011.D
Acq: 19 Dec 2018 15:16

Tgt Ion: 42 Resp: 1003
Ion Ratio Lower Upper
42 100
72 16.0 34.7 52.1#
71 0.0 32.3 48.5#

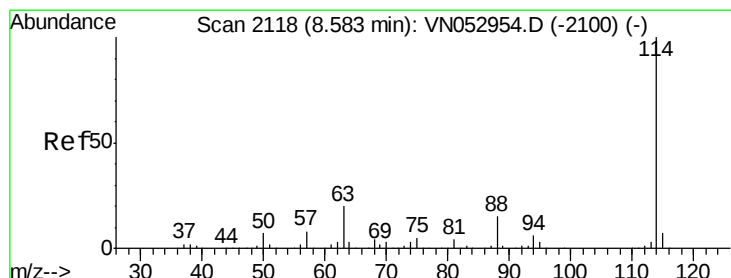
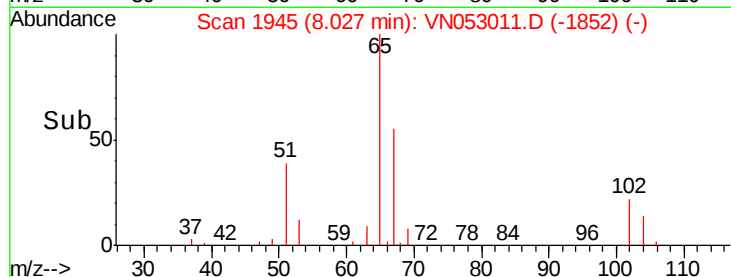
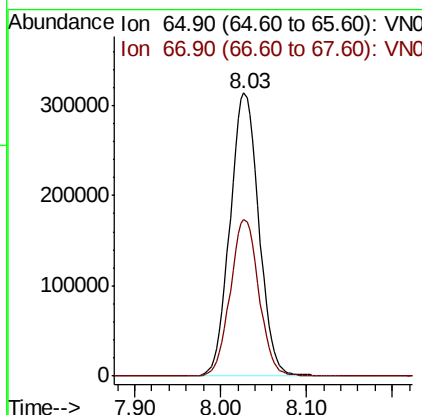
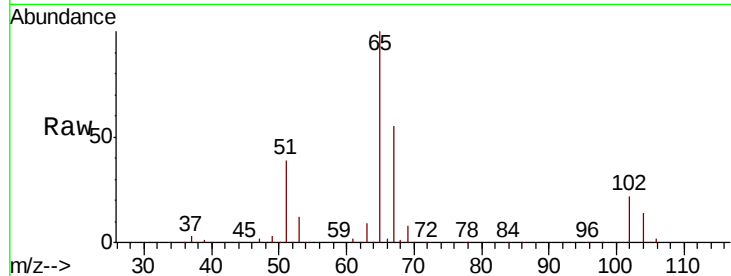




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053011.D
 Acq: 19 Dec 2018 15:16

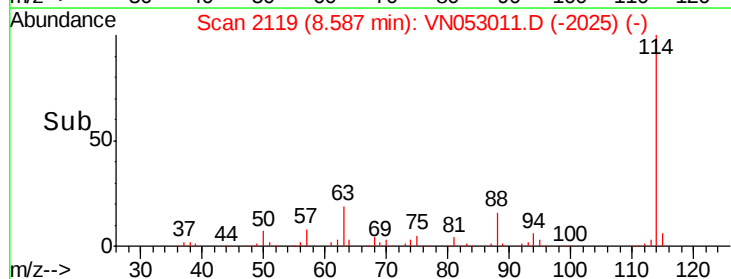
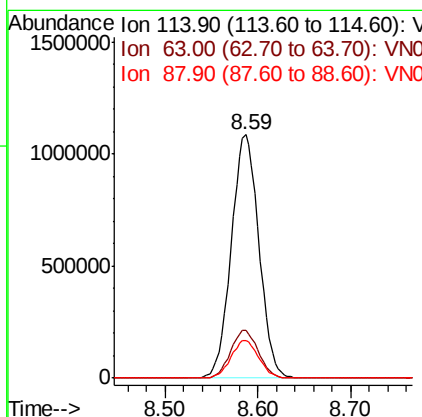
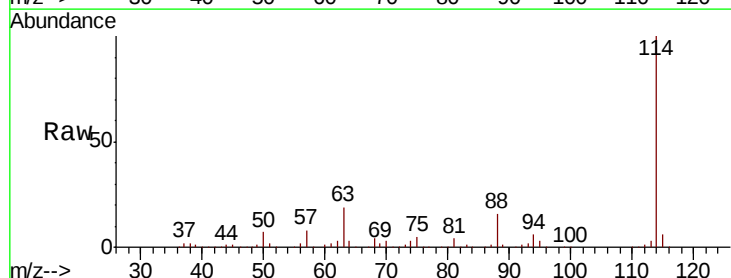
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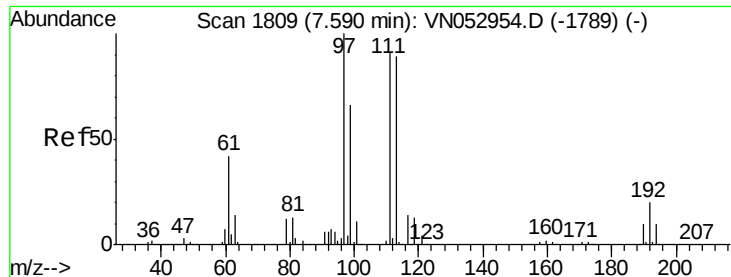
Tot Ion: 65 Resp: 731251
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053011.D
 Acq: 19 Dec 2018 15:16

Tgt Ion: 114 Resp: 2240240
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.8
 88 15.6 0.0 31.0

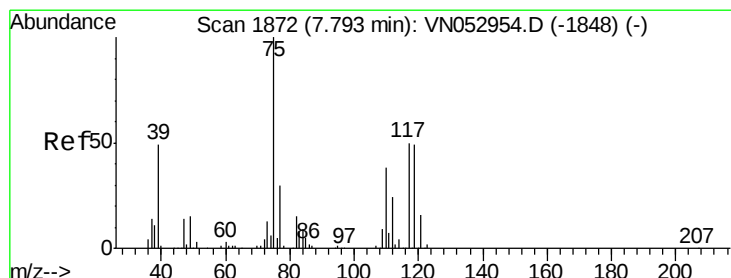
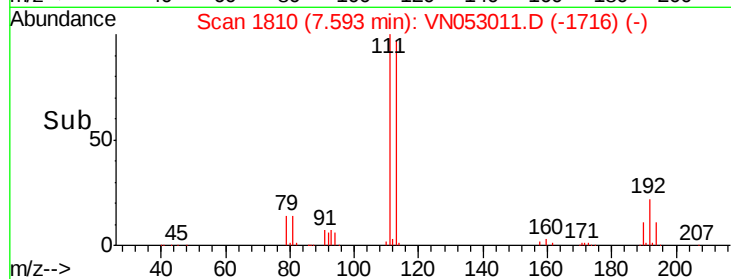
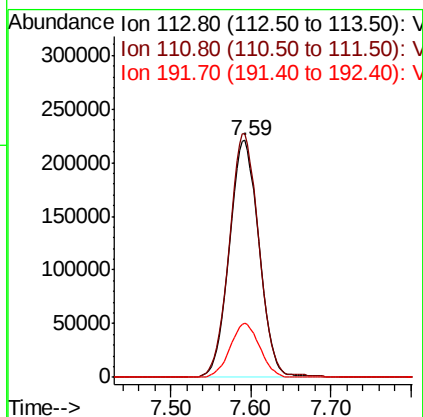
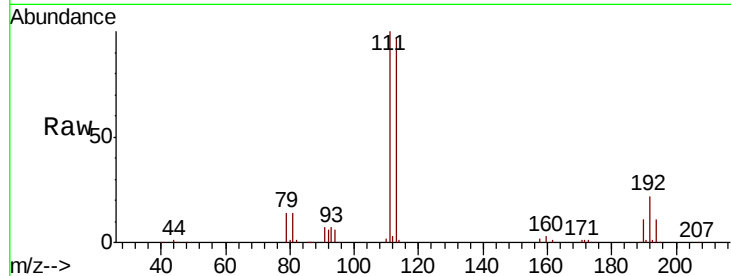




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053011.D
 Acq: 19 Dec 2018 15:16

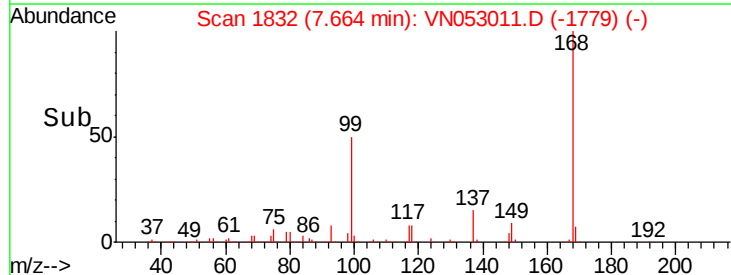
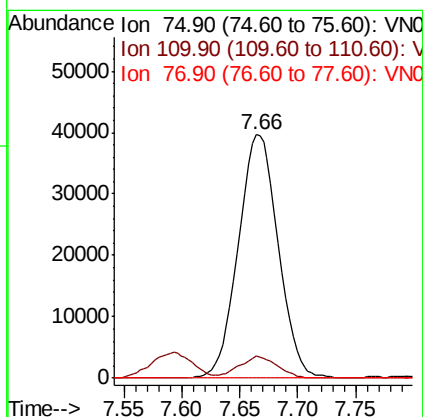
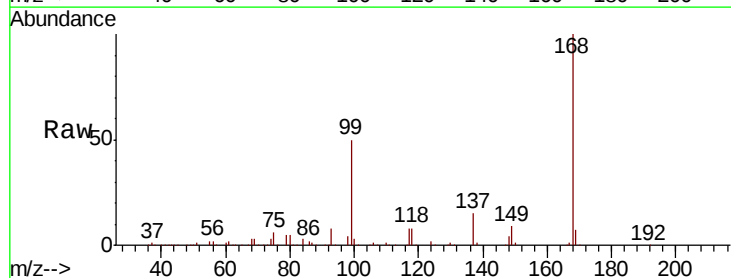
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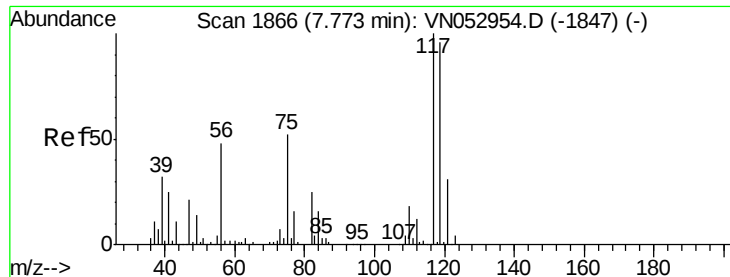
Tot Ion:113 Resp: 554824
 Ion Ratio Lower Upper
 113 100
 111 101.7 83.0 124.4
 192 22.7 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 4.415 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053011.D
 Acq: 19 Dec 2018 15:16

Tgt Ion: 75 Resp: 94928
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.2 54.6#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.405 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053011.D

Acq: 19 Dec 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#01

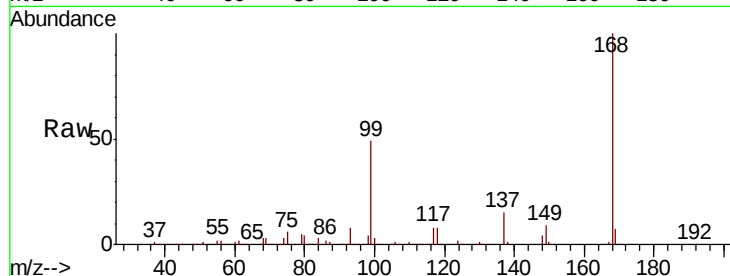
Tot Ion:117 Resp: 126243

Ion Ratio Lower Upper

117 100

119 5.2 77.1 115.7#

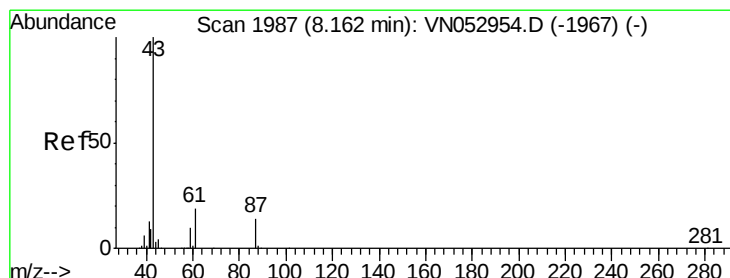
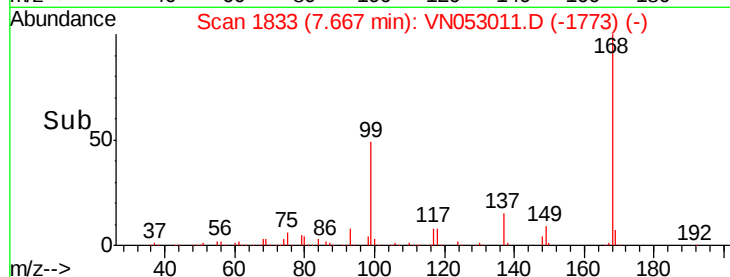
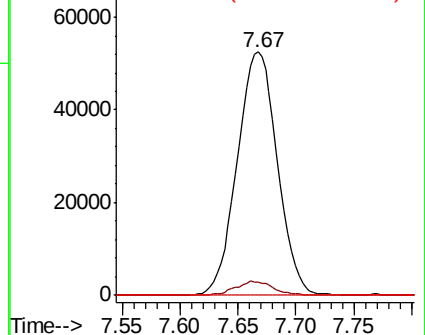
121 0.0 24.9 37.3#



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: 2.557 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053011.D

Acq: 19 Dec 2018 15:16

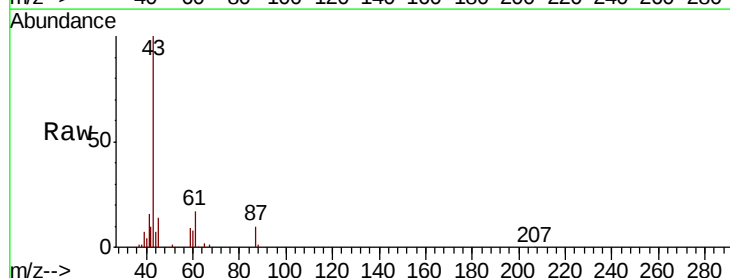
Tgt Ion: 43 Resp: 82430

Ion Ratio Lower Upper

43 100

61 17.2 22.9 34.3#

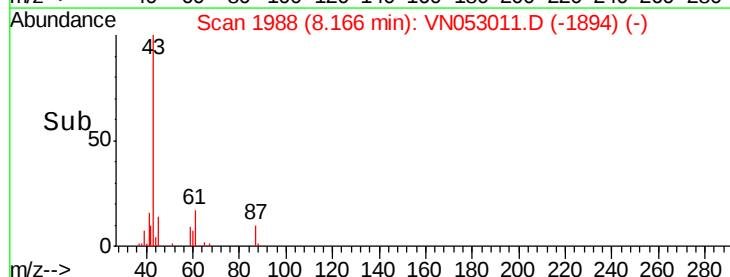
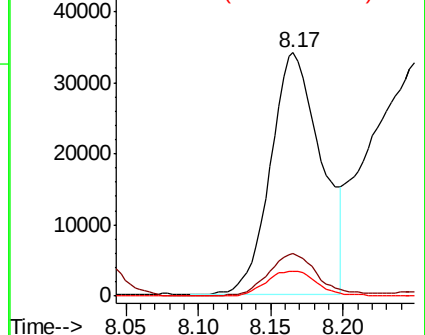
87 10.3 10.6 15.8#

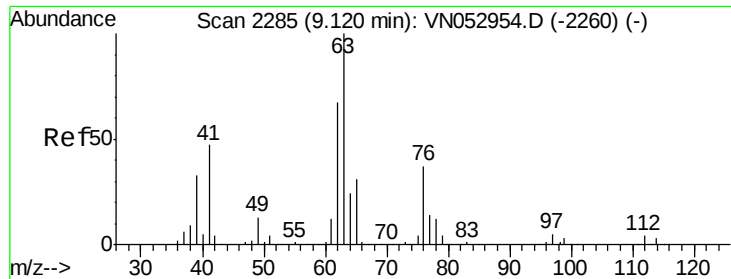


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.270 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN053011.D

Acq: 19 Dec 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

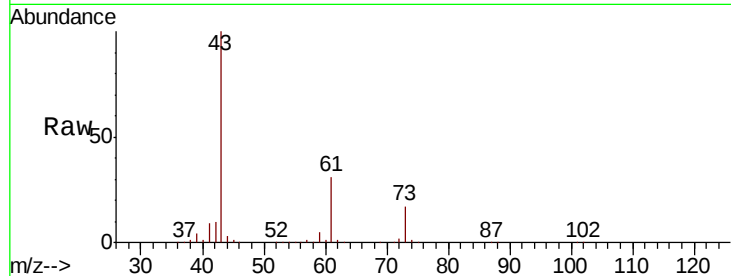
PB115821ZHE#01

Tot Ion: 63 Resp: 4497

Ion Ratio Lower Upper

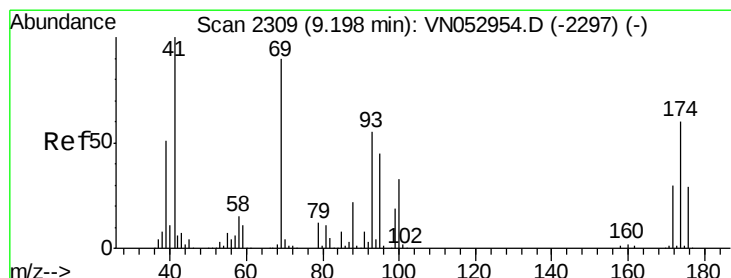
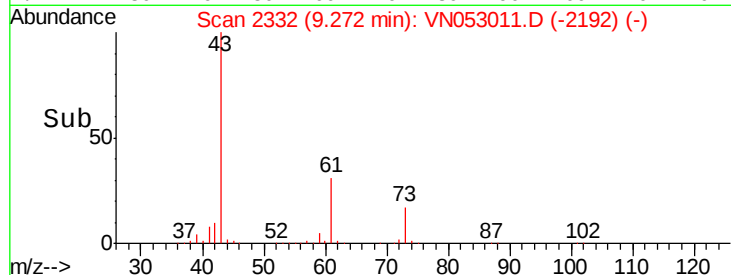
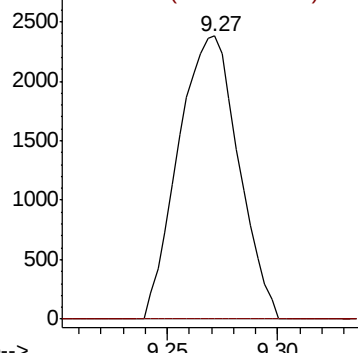
63 100

65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 2.145 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053011.D

Acq: 19 Dec 2018 15:16

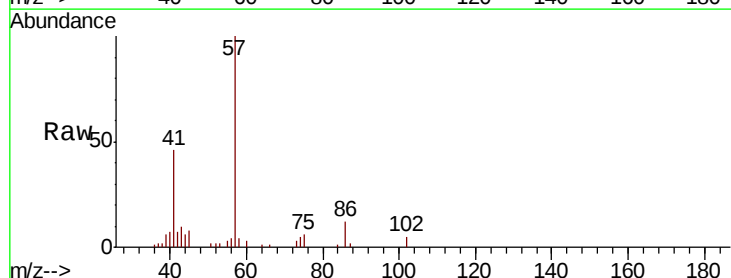
Tgt Ion: 41 Resp: 24989

Ion Ratio Lower Upper

41 100

69 0.0 72.2 108.2#

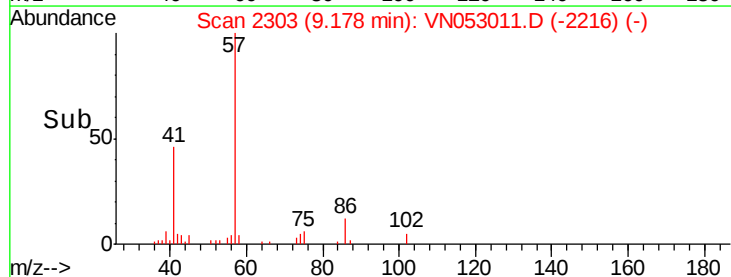
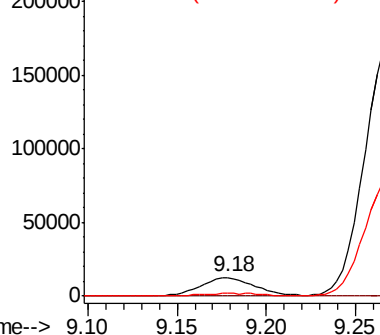
39 0.0 41.9 62.9#

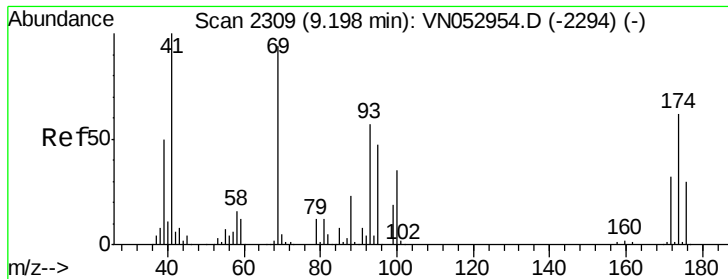


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 3.271 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN053011.D

Acq: 19 Dec 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#01

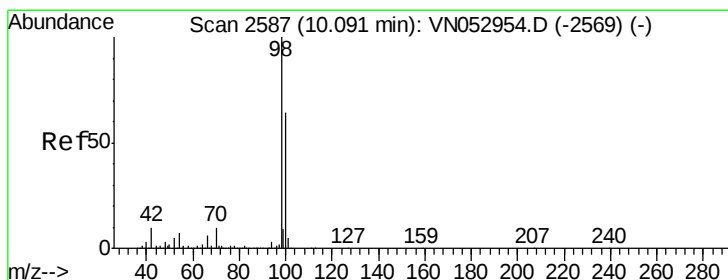
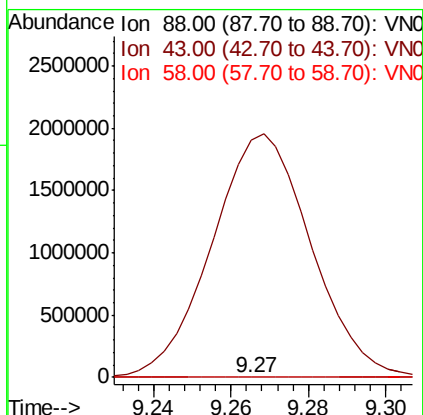
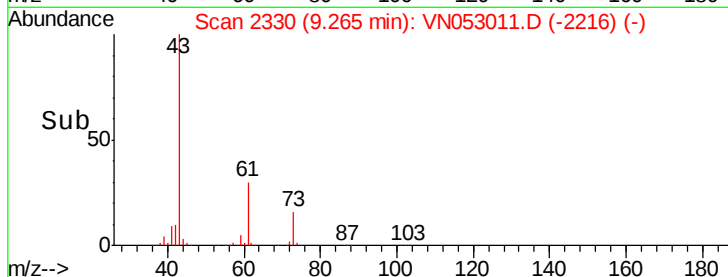
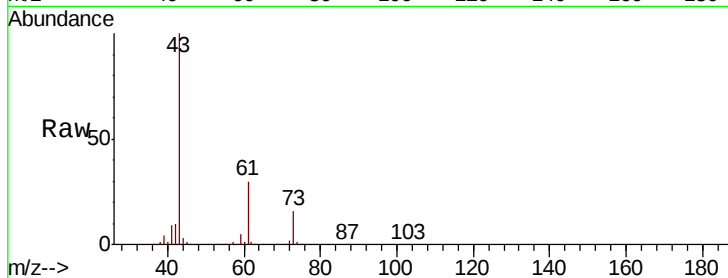
Tot Ion: 88 Resp: 482

Ion Ratio Lower Upper

88 100

43 728049.6 26.6 40.0#

58 2981.5 58.4 87.6#



#50

Toluene-d8

Concen: 3.271 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053011.D

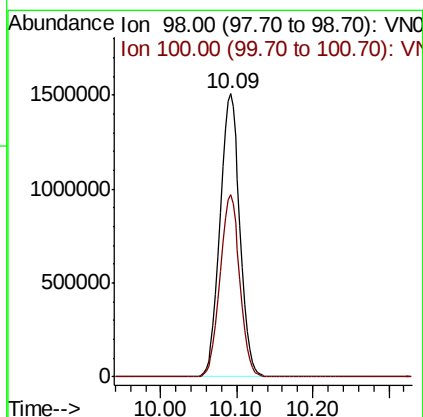
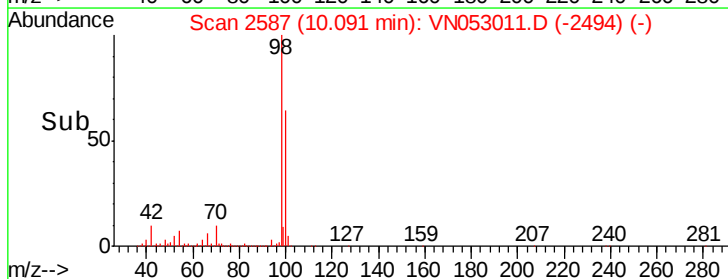
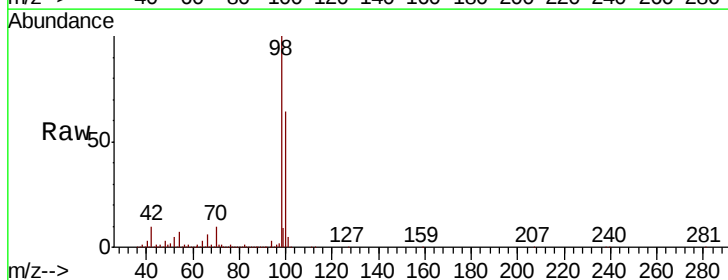
Acq: 19 Dec 2018 15:16

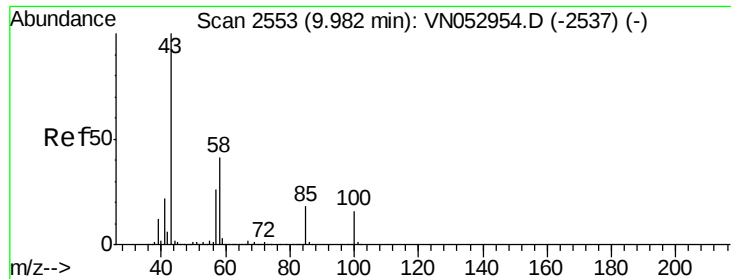
Tgt Ion: 98 Resp: 2727470

Ion Ratio Lower Upper

98 100

100 64.0 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 2.584 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053011.D

Acq: 19 Dec 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

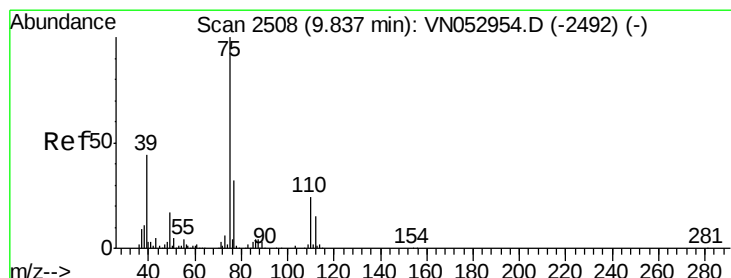
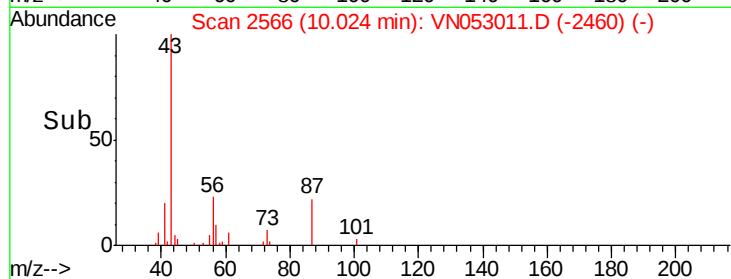
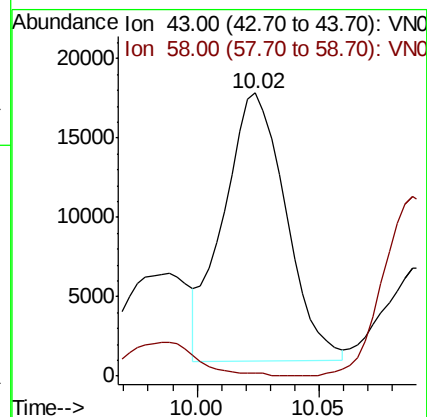
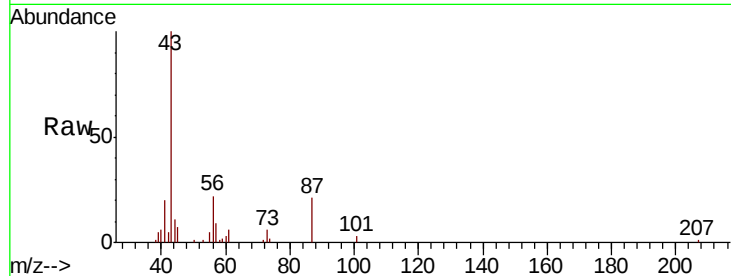
PB115821ZHE#01

Tot Ion: 43 Resp: 30033

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 8.246 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN053011.D

Acq: 19 Dec 2018 15:16

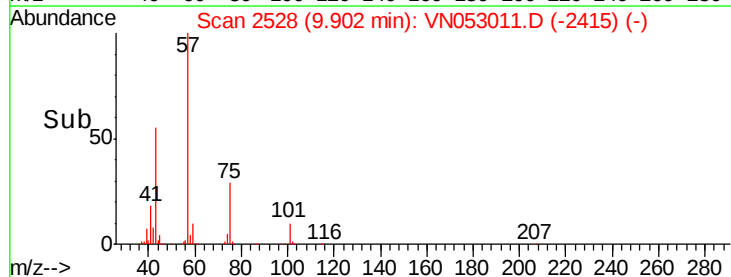
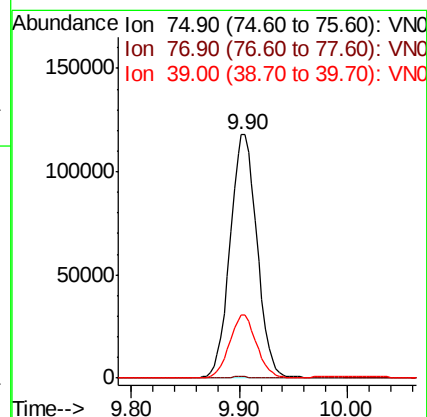
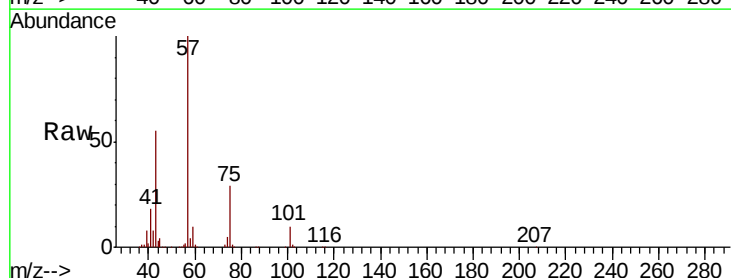
Tgt Ion: 75 Resp: 205320

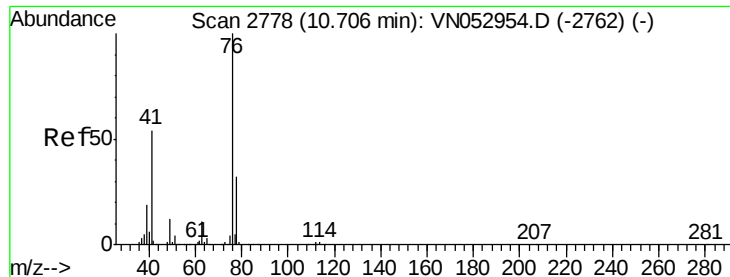
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

39 25.8 34.8 52.2#

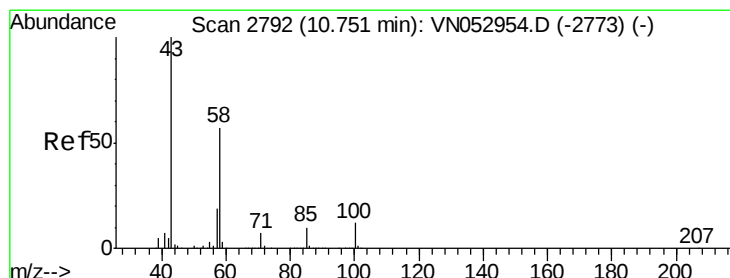
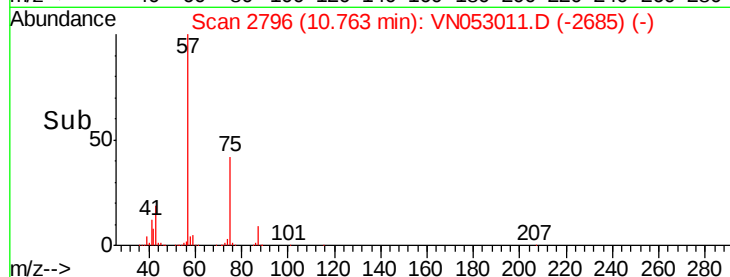
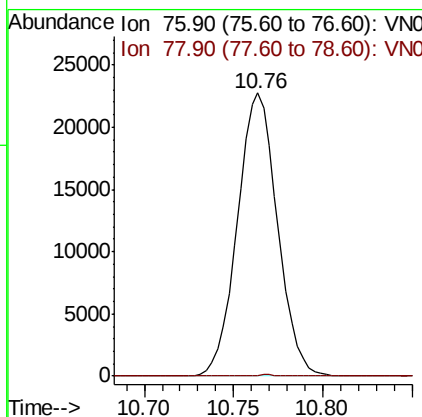
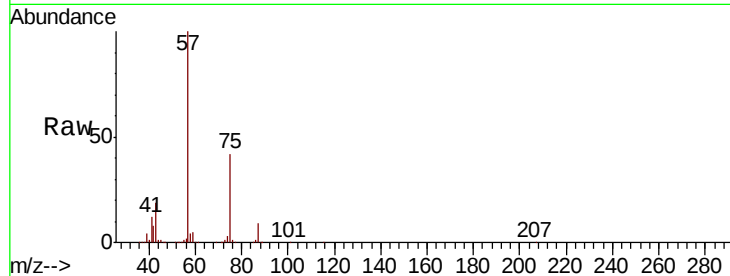




#57
 1,3-Dichloropropane
 Concen: 1.503 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN053011.D
 Acq: 19 Dec 2018 15:16

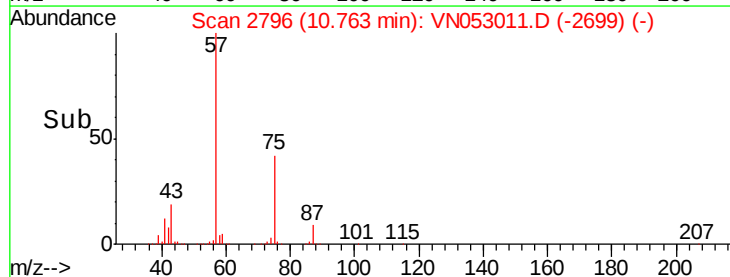
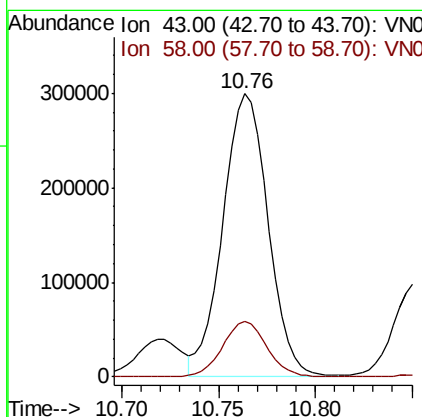
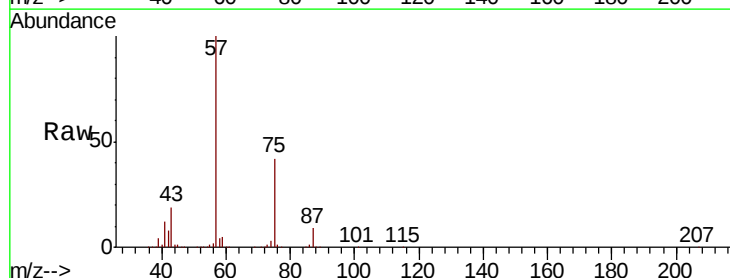
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115821ZHE#01

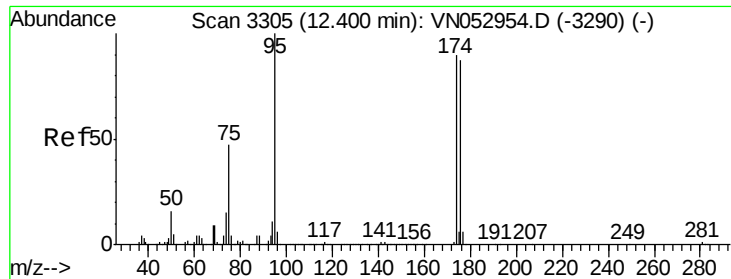
Tot Ion: 76 Resp: 35647
 Ion Ratio Lower Upper
 76 100
 78 0.2 25.8 38.8#



#59
 2-Hexanone
 Concen: 61.496 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053011.D
 Acq: 19 Dec 2018 15:16

Tgt Ion: 43 Resp: 483667
 Ion Ratio Lower Upper
 43 100
 58 19.4 28.1 84.3#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053011.D

Acq: 19 Dec 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#01

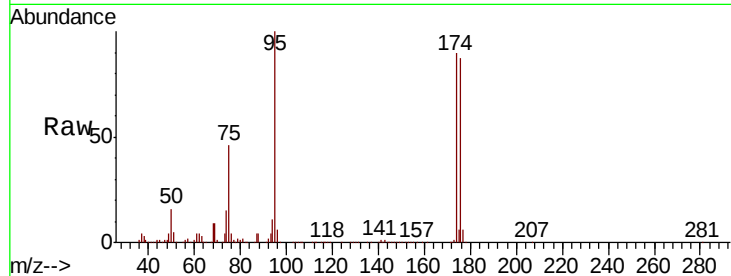
Tot Ion: 95 Resp: 876361

Ion Ratio Lower Upper

95 100

174 90.0 0.0 178.8

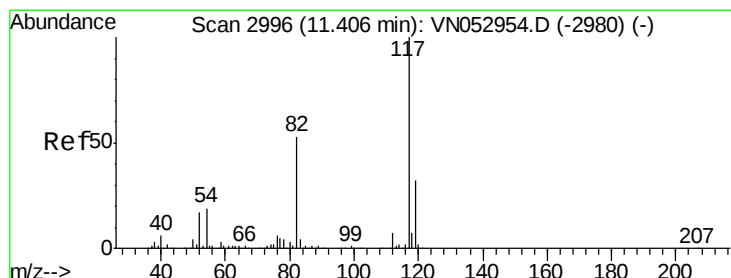
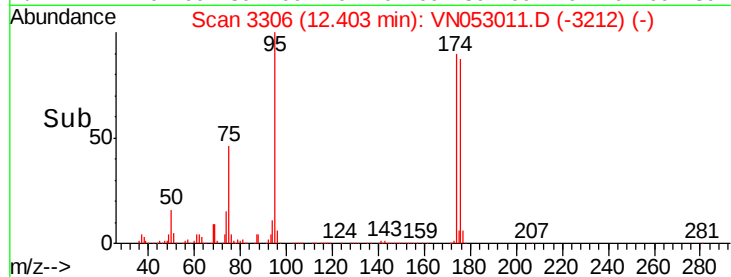
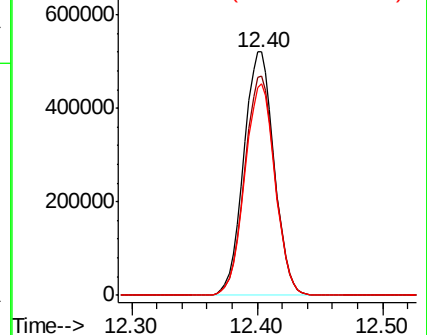
176 86.5 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053011.D

Acq: 19 Dec 2018 15:16

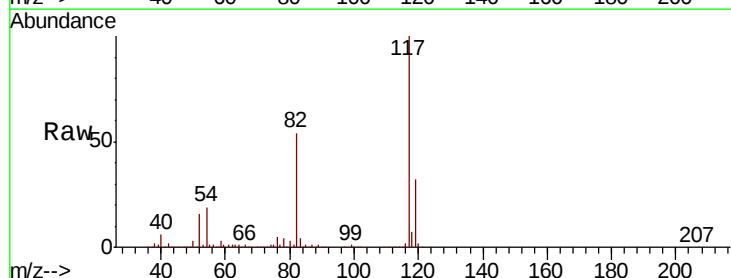
Tgt Ion: 117 Resp: 1987808

Ion Ratio Lower Upper

117 100

82 53.6 42.8 64.2

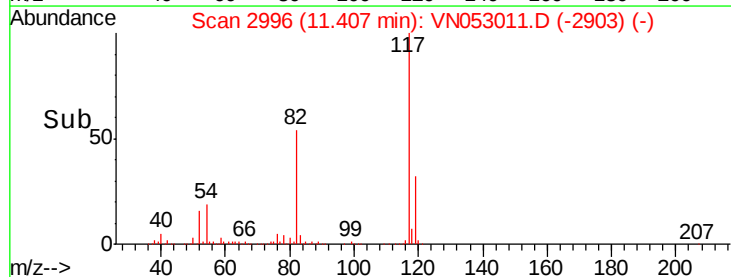
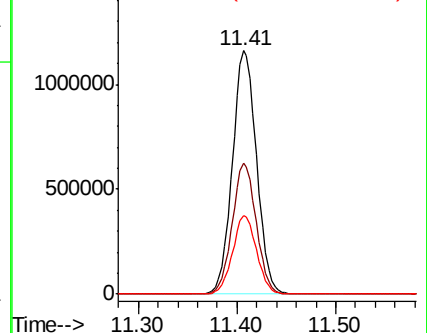
119 32.1 25.5 38.3

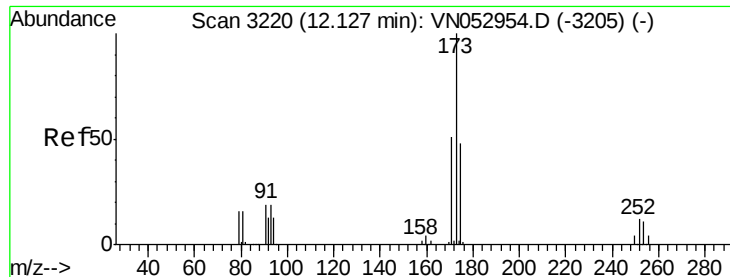


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.479 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053011.D

Acq: 19 Dec 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#01

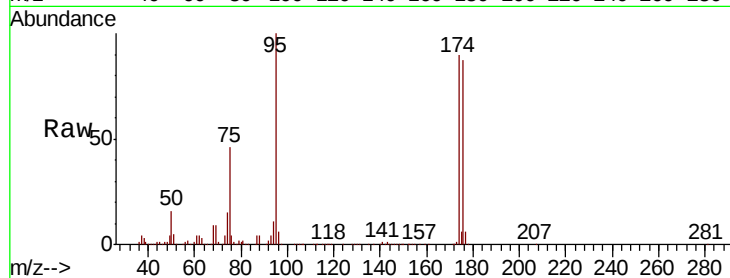
Tot Ion:173 Resp: 5300

Ion Ratio Lower Upper

173 100

175 936.9 24.3 72.9#

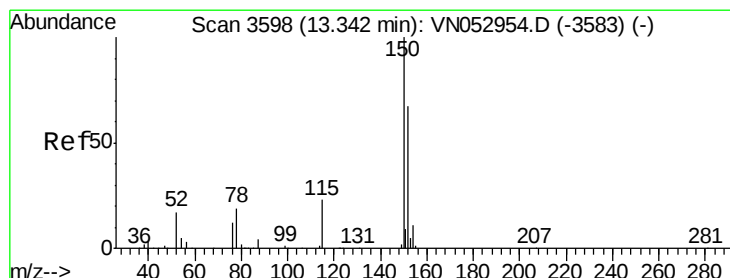
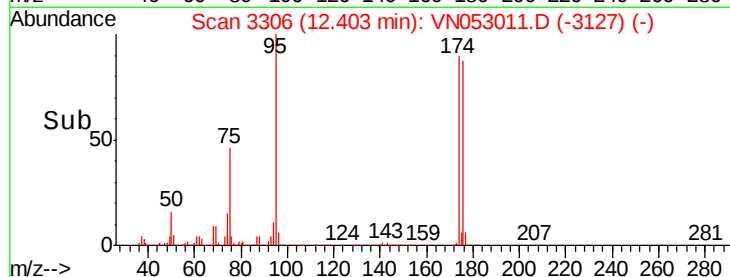
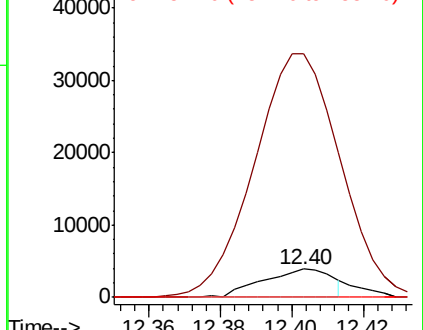
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN053011.D

Acq: 19 Dec 2018 15:16

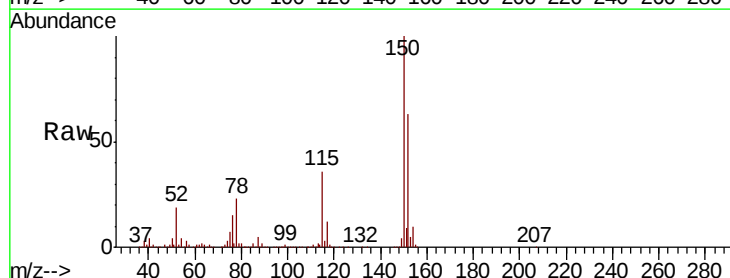
Tgt Ion:152 Resp: 768231

Ion Ratio Lower Upper

152 100

115 56.2 28.3 85.0

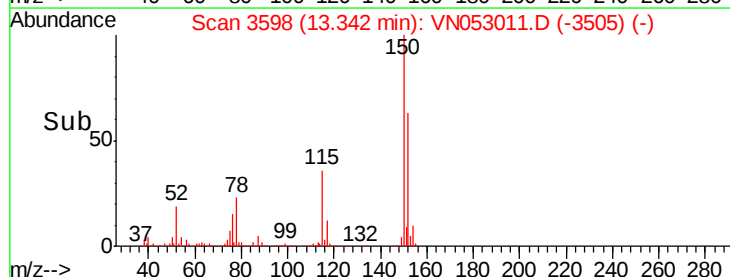
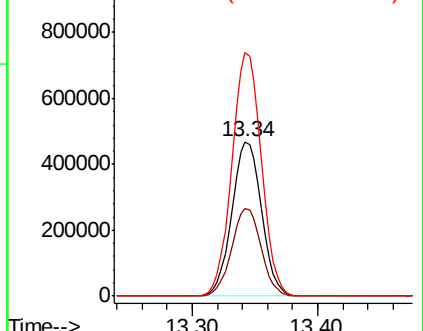
150 156.8 0.0 347.8

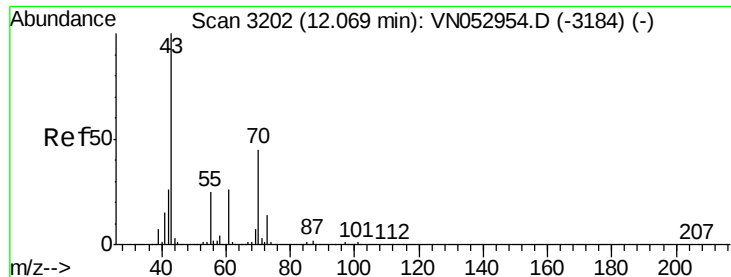


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.698 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053011.D

Acq: 19 Dec 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

PB115821ZHE#01

Tot Ion: 43 Resp: 61710

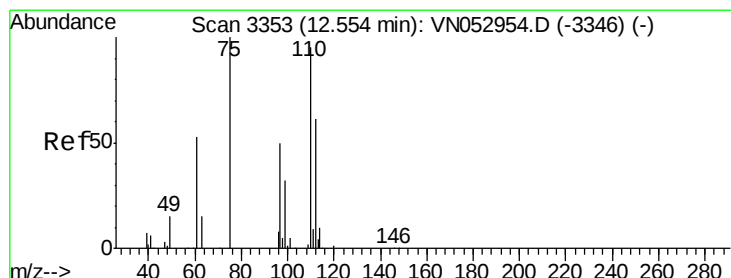
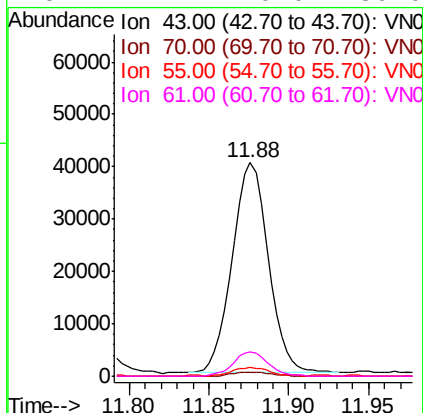
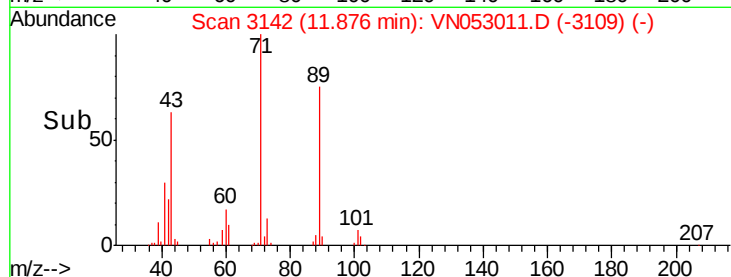
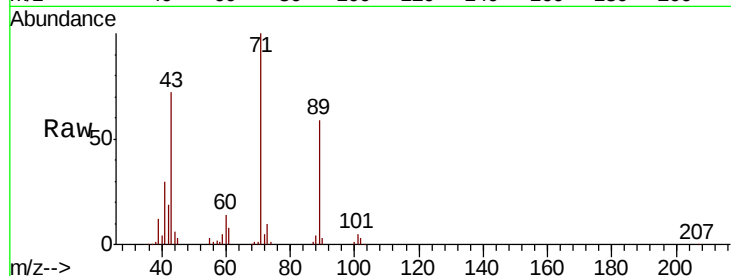
Ion Ratio Lower Upper

43 100

70 2.1 34.2 51.4#

55 4.3 20.3 30.5#

61 11.2 20.0 30.0#



#76

1,2,3-Trichloropropane

Concen: 31.566 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053011.D

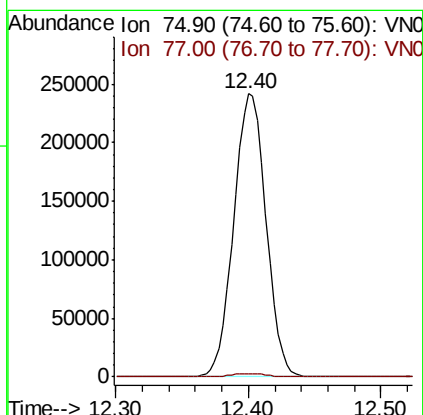
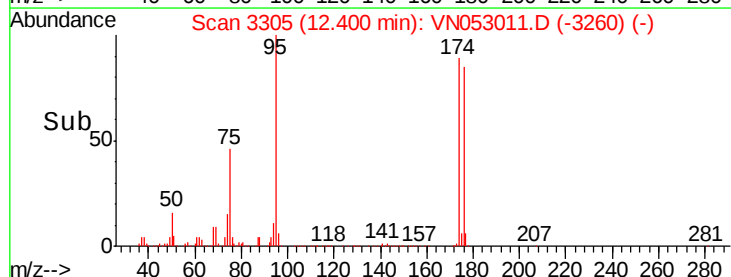
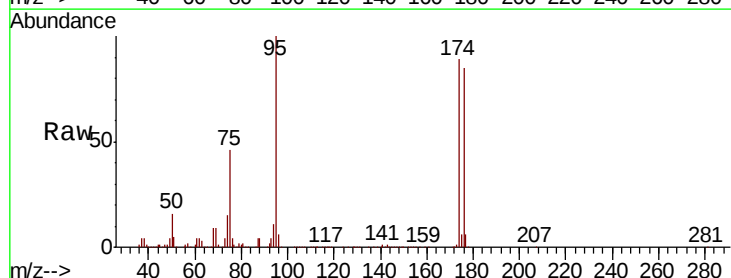
Acq: 19 Dec 2018 15:16

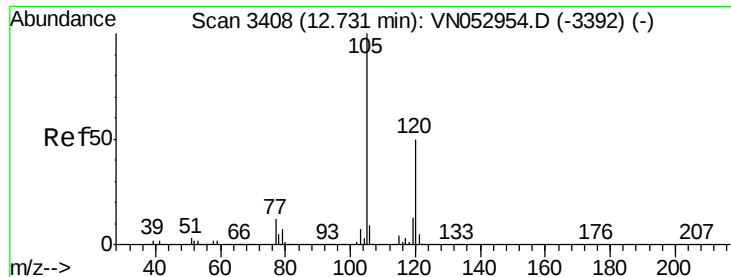
Tgt Ion: 75 Resp: 408224

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#

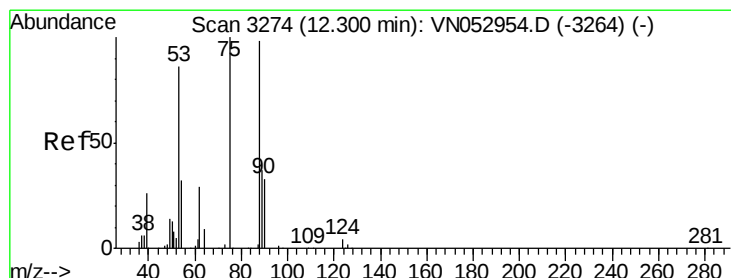
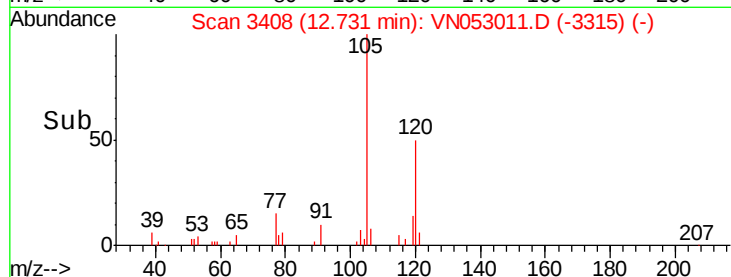
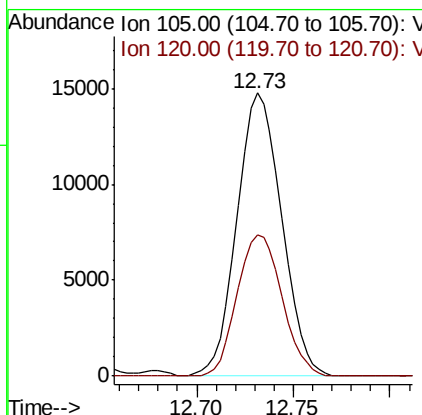
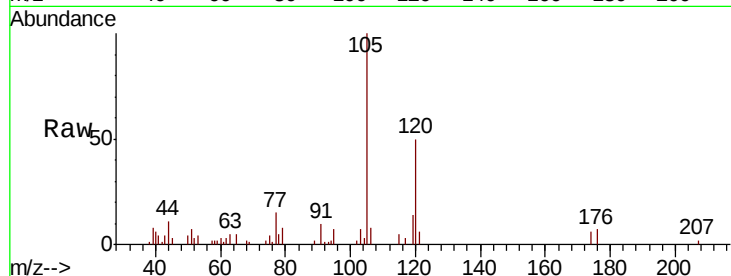




#80
 1,3,5-Trimethylbenzene
 Concen: 0.485 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN053011.D
 Acq: 19 Dec 2018 15:16

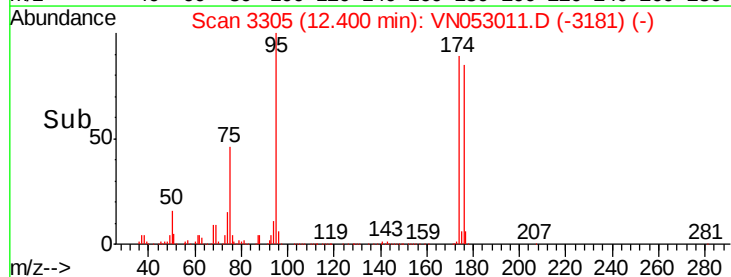
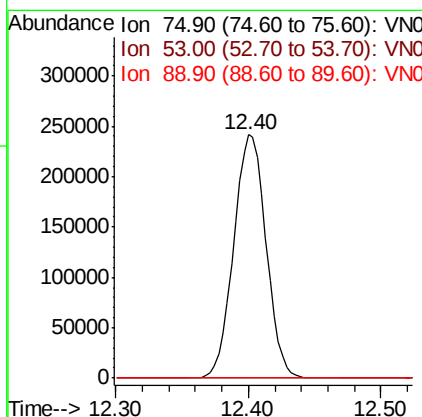
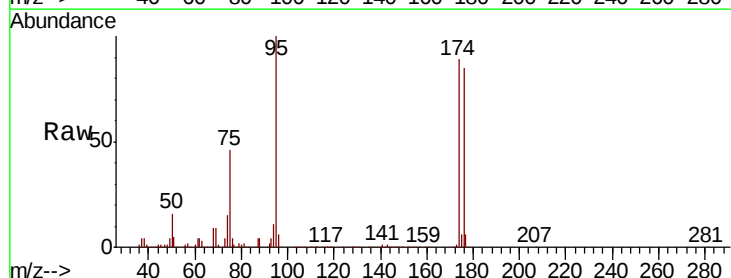
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115821ZHE#01

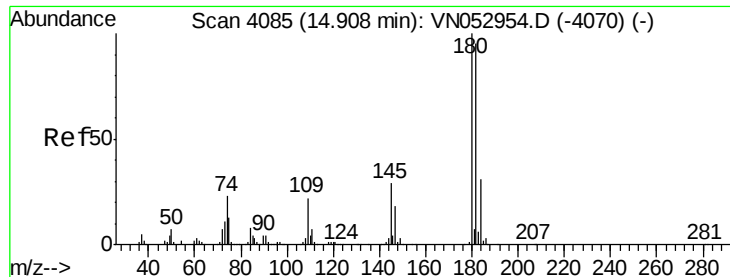
Tot Ion:105 Resp: 23745
 Ion Ratio Lower Upper
 105 100
 120 50.2 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 101.741 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN053011.D
 Acq: 19 Dec 2018 15:16

Tgt Ion: 75 Resp: 408224
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.7 112.1#
 89 0.0 36.1 54.1#

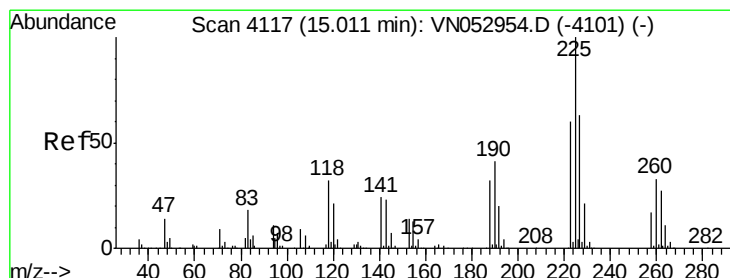
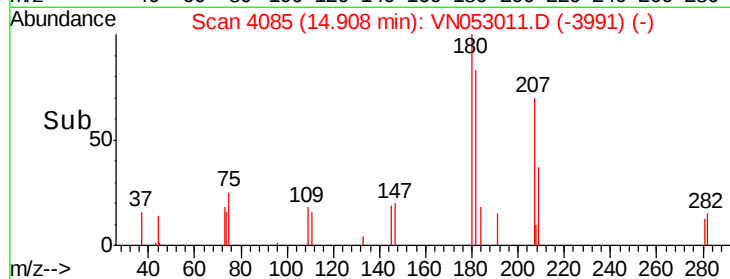
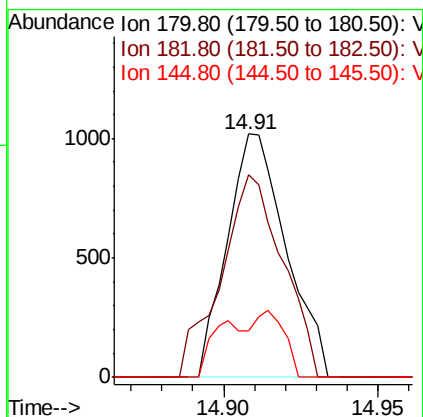
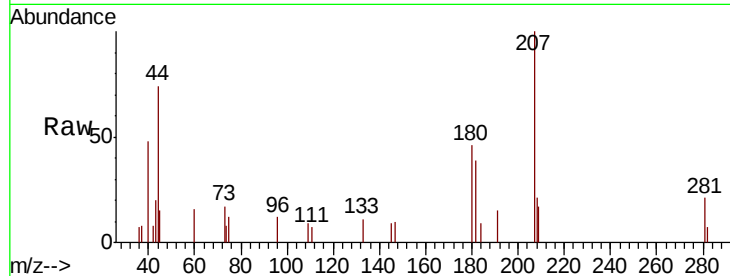




#93
 1,2,4-Trichlorobenzene
 Concen: 0.693 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053011.D
 Acq: 19 Dec 2018 15:16

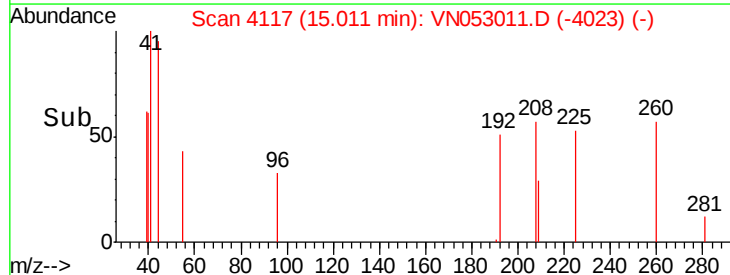
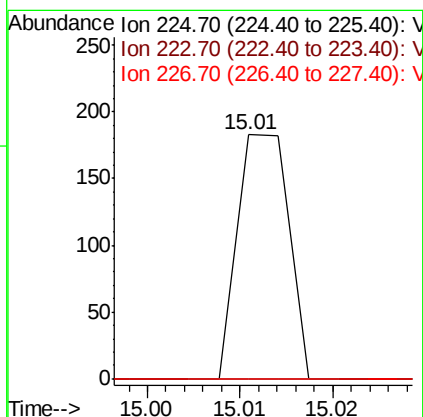
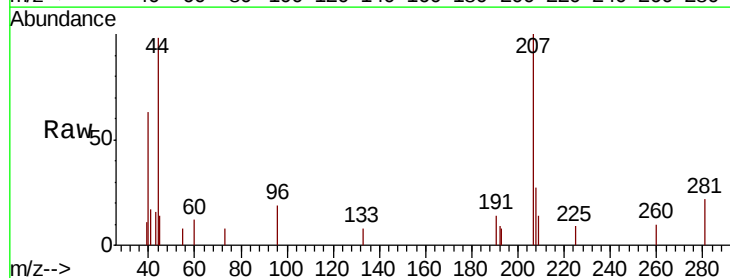
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115821ZHE#01

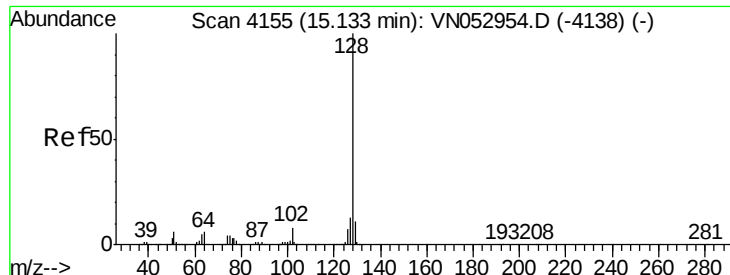
Tot Ion:180 Resp: 1351
 Ion Ratio Lower Upper
 180 100
 182 87.3 47.8 143.3
 145 13.3 14.2 42.6#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053011.D
 Acq: 19 Dec 2018 15:16

Tgt Ion:225 Resp: 70
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.5 94.5#
 227 0.0 31.9 95.7#

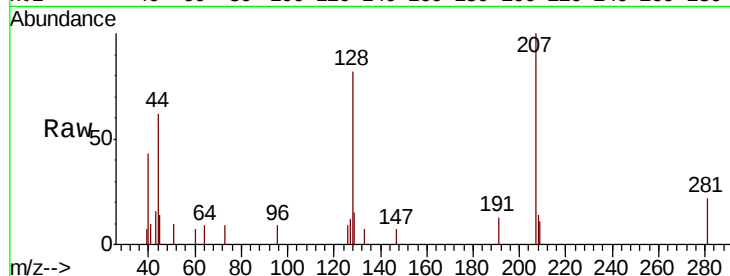




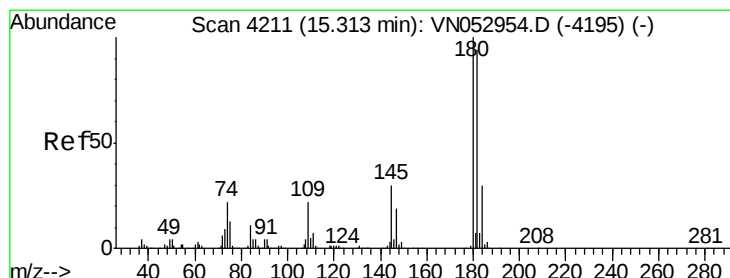
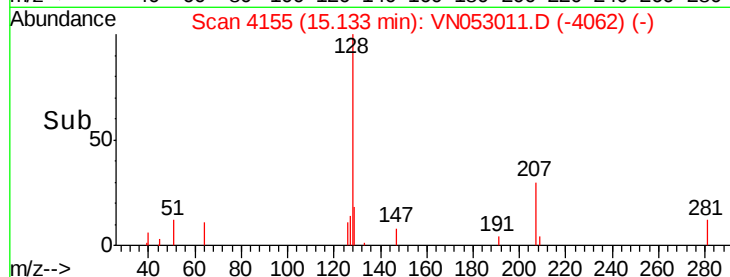
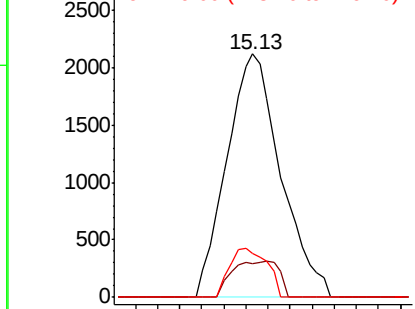
#95
Naphthalene
Concen: 1.263 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053011.D
Acq: 19 Dec 2018 15:16

Instrument :
MSVOA_N
ClientSampleId :
PB115821ZHE#01

Tot Ion:128 Resp: 3590
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.4
129 14.0 8.6 13.0#

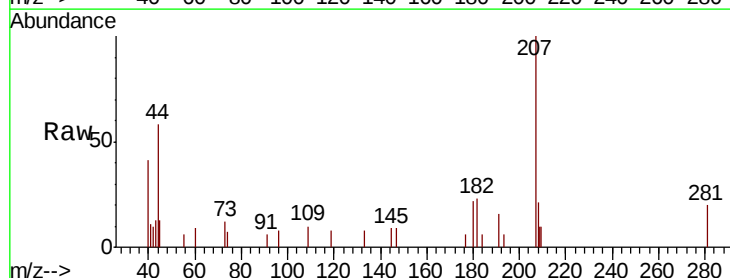


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 0.609 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN053011.D
Acq: 19 Dec 2018 15:16

Tgt Ion:180 Resp: 1264
Ion Ratio Lower Upper
180 100
182 91.7 47.9 143.7
145 21.8 15.0 45.0



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

