

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057821.D
 Acq On : 9 Sep 2019 23:09
 Operator : JC/SP
 Sample : K4603-28
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 07:12:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	305973	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	517989	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	475158	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	239524	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	335178	54.09	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	108.18%	
35) Dibromofluoromethane	7.58	113	226064	47.29	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.58%	
50) Toluene-d8	10.09	98	946797	51.01	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.02%	
62) 4-Bromofluorobenzene	12.40	95	304388	43.03	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	86.06%	

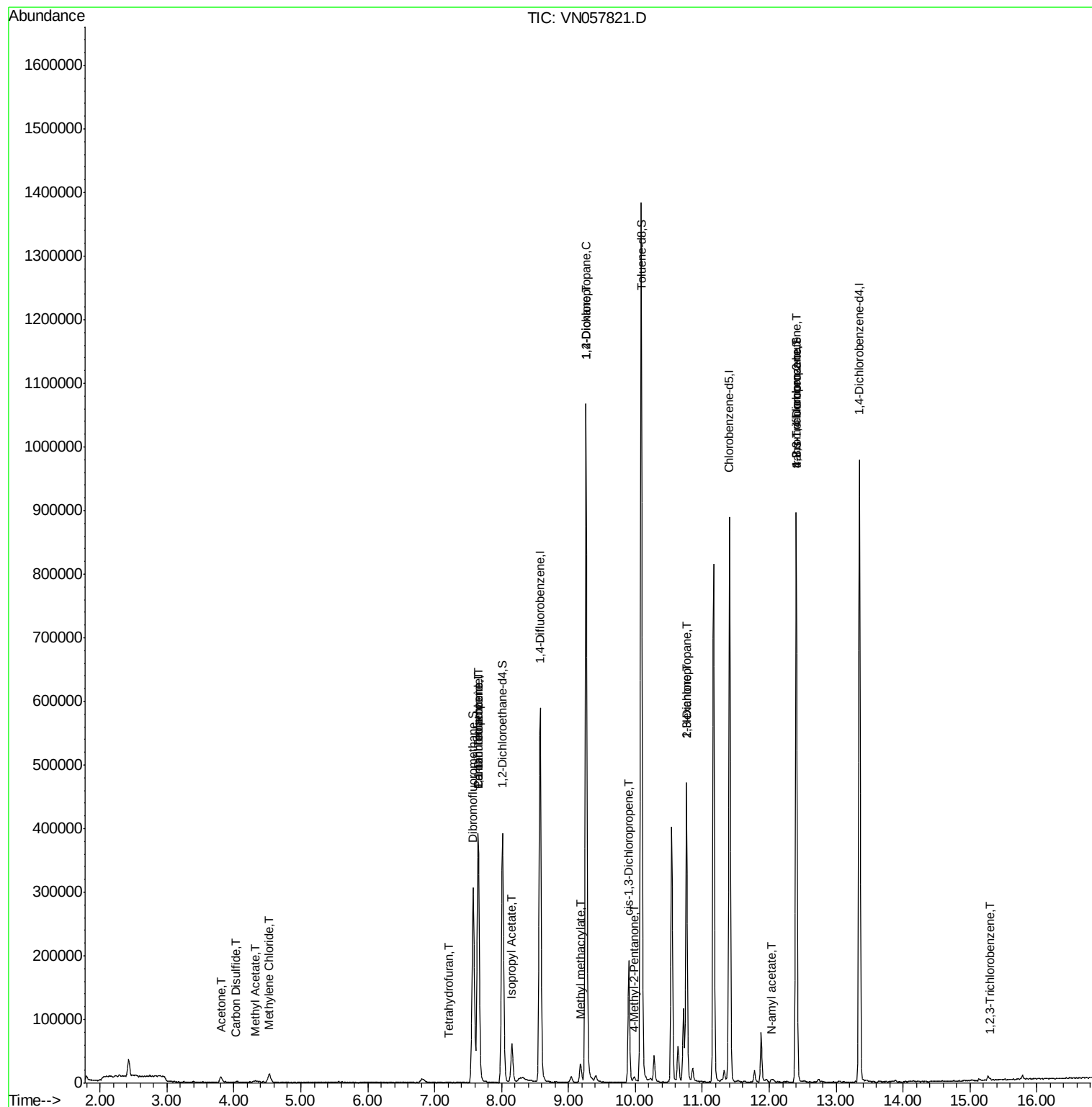
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	406	Below Cal	#	52
16) Acetone	3.81	43	14781	7.276	ug/l	98
17) Carbon Disulfide	4.02	76	379	0.233	ug/l #	75
18) Methyl Acetate	4.32	43	3117	0.575	ug/l #	86
20) Methylene Chloride	4.53	84	9526	1.263	ug/l	89
29) Tetrahydrofuran	7.21	42	513	0.283	ug/l #	34
31) Cyclohexane	7.65	56	7779	Below Cal	#	22
36) 1,1-Dichloropropene	7.65	75	26101	4.345	ug/l #	52
38) Carbon Tetrachloride	7.65	117	31487	5.741	ug/l #	16
43) Isopropyl Acetate	8.16	43	72265	6.924	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	1359	0.258	ug/l #	44
48) Methyl methacrylate	9.18	41	4796	0.906	ug/l #	13
49) 1,4-Dioxane	9.26	88	29	0.324	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	4260	0.690	ug/l #	70
54) cis-1,3-Dichloropropene	9.90	75	31462	4.261	ug/l #	65
57) 1,3-Dichloropropane	10.76	76	4588	0.552	ug/l #	43
59) 2-Hexanone	10.76	43	70967	15.329	ug/l #	56
74) N-amyl acetate	12.03	43	2909	0.360	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	167104	30.840	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	167104	108.526	ug/l #	6
95) Naphthalene	15.13	128	2194	Below Cal	#	71
96) 1,2,3-Trichlorobenzene	15.31	180	760	1.152	ug/l	90

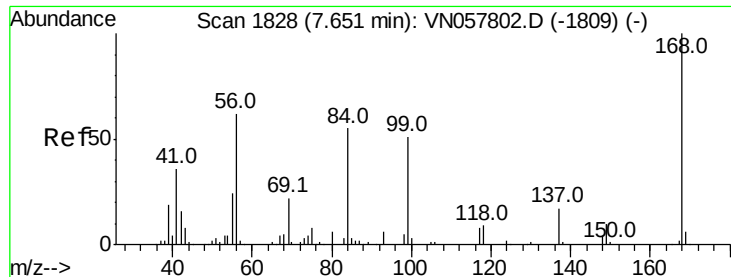
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

Instrument :

MSVOA_N

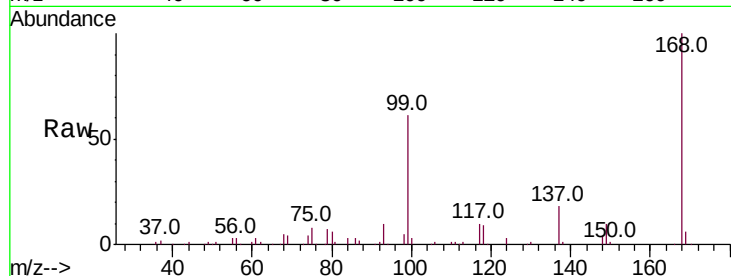
ClientSampleId :

Tot Ion:168 Resp: 305973

Ion Ratio Lower Upper

168 100

99 60.5 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

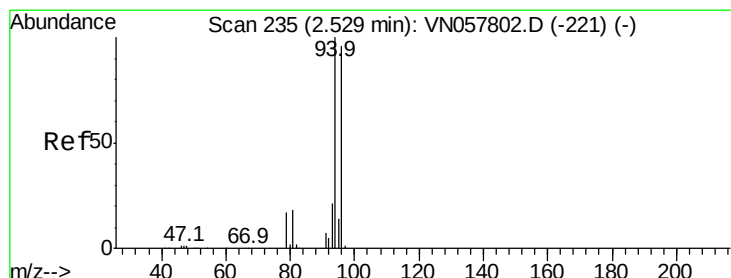
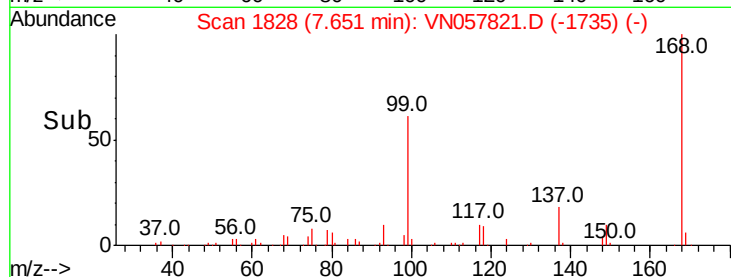
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN057821.D

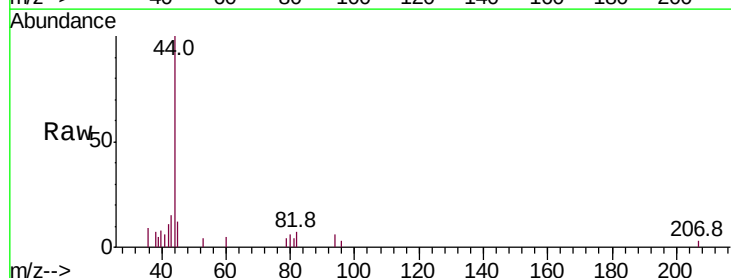
Acq: 9 Sep 2019 23:09

Tgt Ion: 94 Resp: 406

Ion Ratio Lower Upper

94 100

96 49.4 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)

2.55

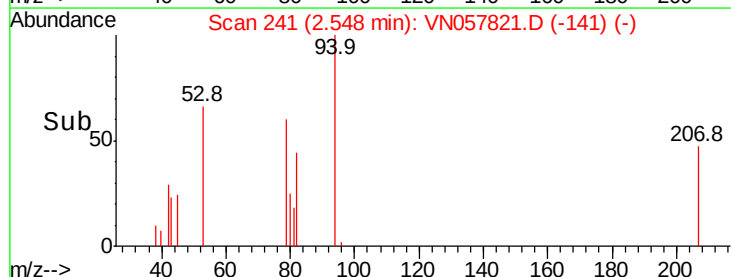
300

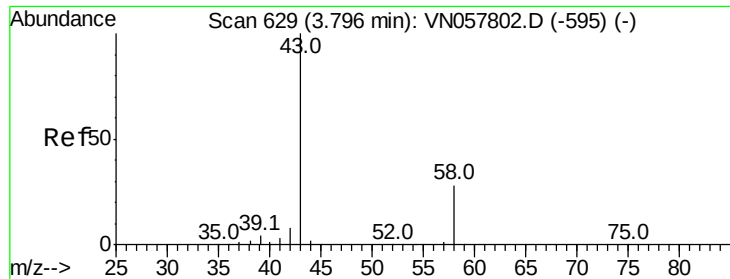
200

100

0

Time--> 2.52 2.54 2.56 2.58

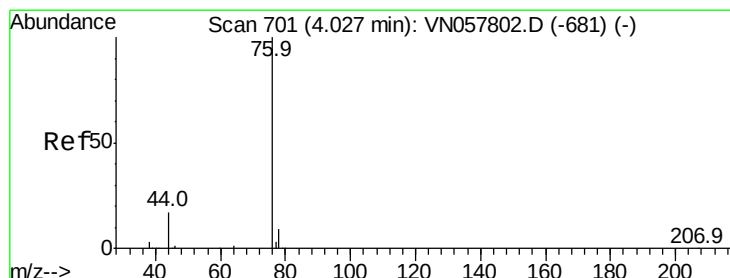
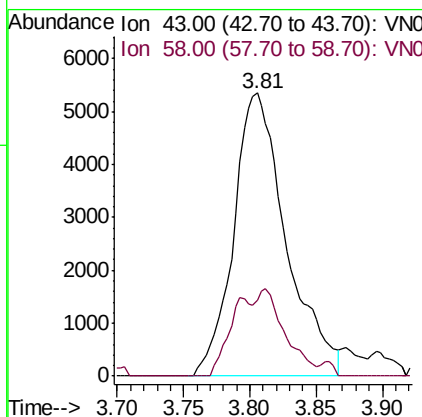
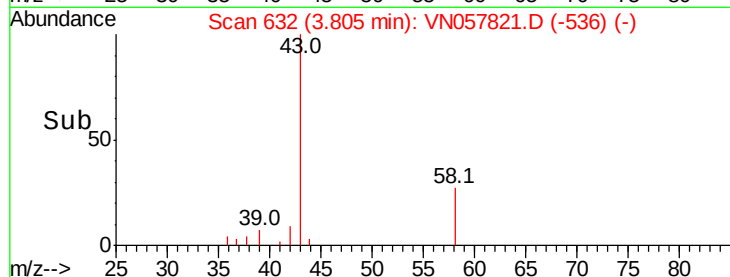
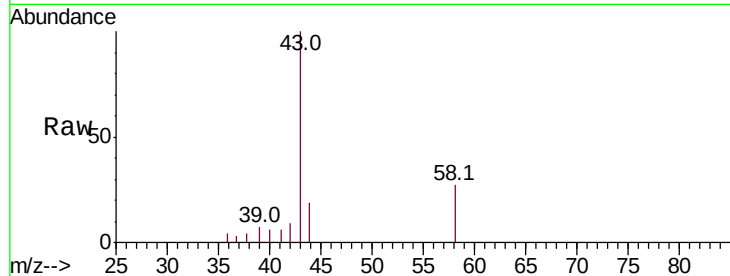




#16
Acetone
Concen: 7.276 ug/l
RT: 3.81 min Scan# 632
Delta R.T. 0.01 min
Lab File: VN057821.D
Acq: 9 Sep 2019 23:09

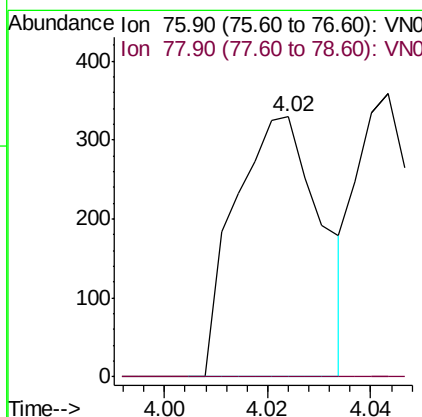
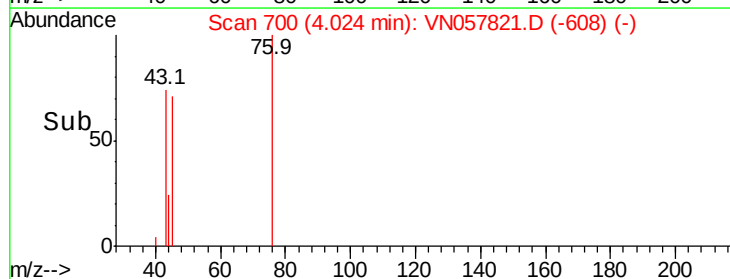
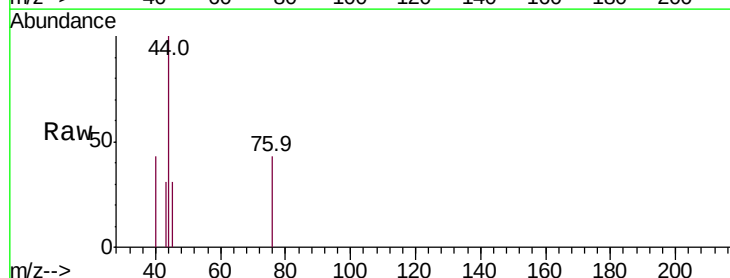
Instrument :
MSVOA_N
ClientSampleId :

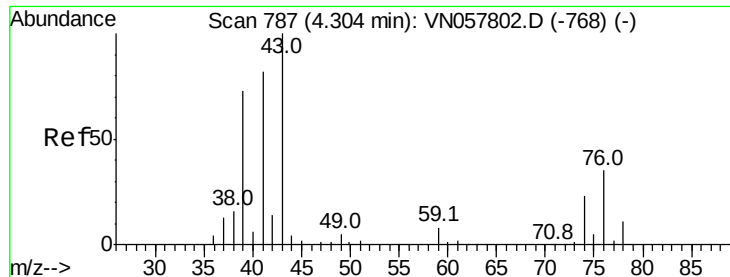
Tot Ion: 43 Resp: 14781
Ion Ratio Lower Upper
43 100
58 26.8 22.2 33.2



#17
Carbon Disulfide
Concen: 0.233 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.00 min
Lab File: VN057821.D
Acq: 9 Sep 2019 23:09

Tgt Ion: 76 Resp: 379
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#

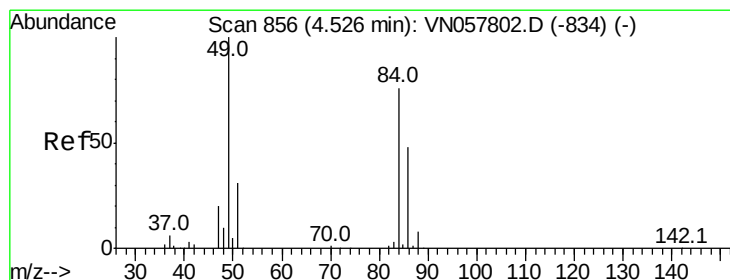
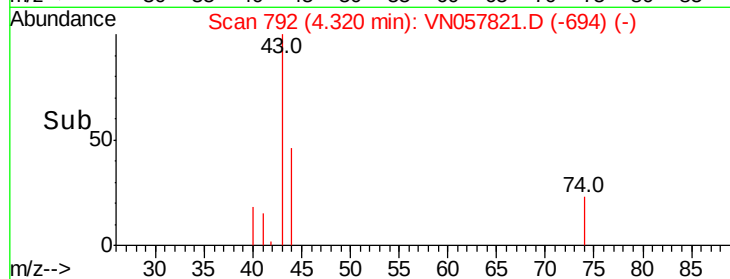
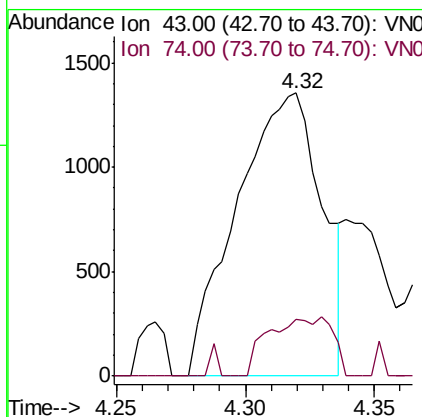
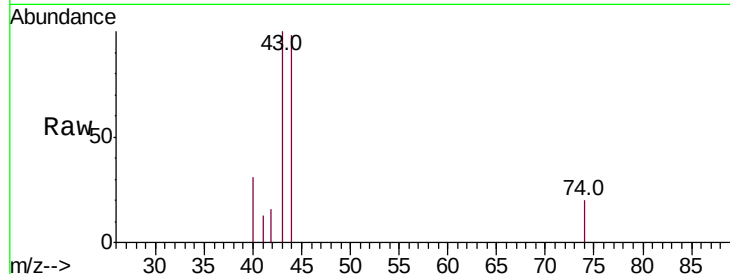




#18
Methyl Acetate
Concen: 0.575 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN057821.D
Acq: 9 Sep 2019 23:09

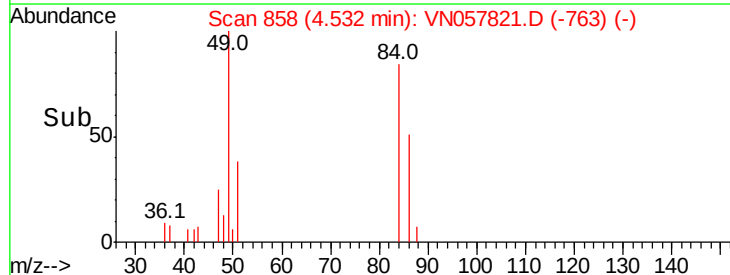
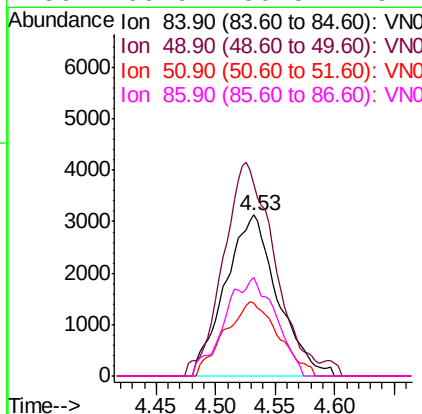
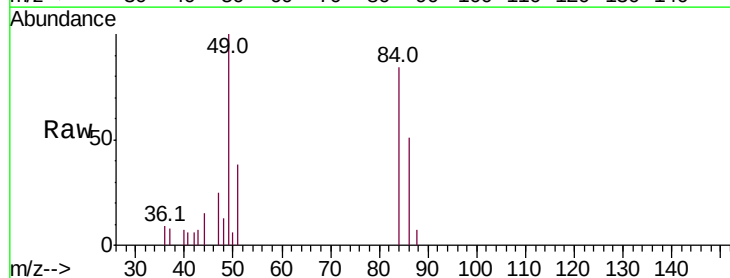
Instrument :
MSVOA_N
ClientSampled :

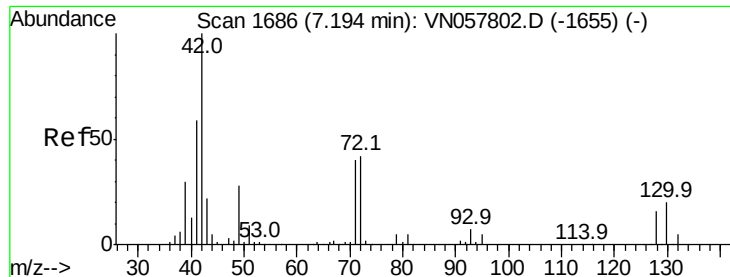
Tot Ion: 43 Resp: 3117
Ion Ratio Lower Upper
43 100
74 15.6 17.9 26.9#



#20
Methylene Chloride
Concen: 1.263 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN057821.D
Acq: 9 Sep 2019 23:09

Tgt Ion: 84 Resp: 9526
Ion Ratio Lower Upper
84 100
49 112.3 104.8 157.2
51 45.2 33.0 49.4
86 60.9 50.5 75.7





#29

Tetrahydrofuran

Concen: 0.283 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.02 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

Instrument :

MSVOA_N

ClientSampled :

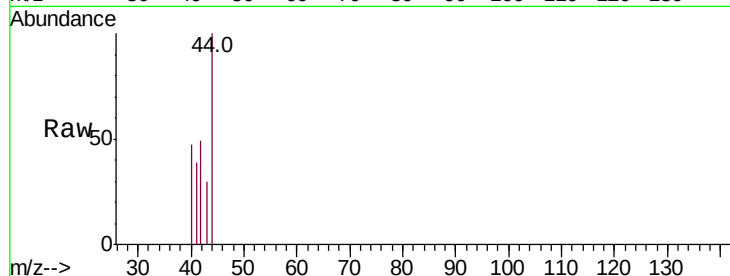
Tot Ion: 42 Resp: 513

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

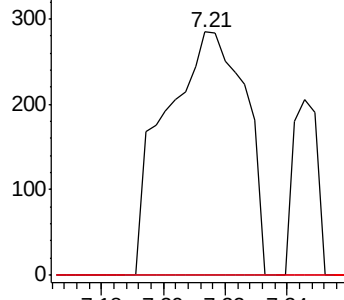
71 0.0 31.9 47.9#



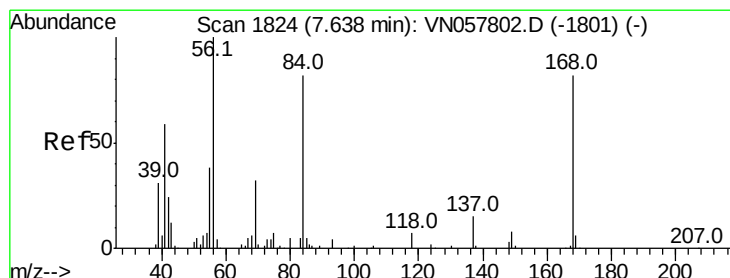
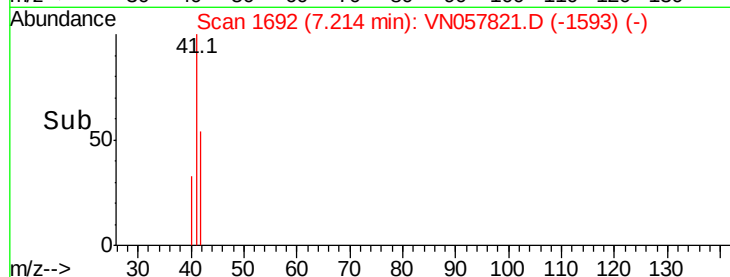
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

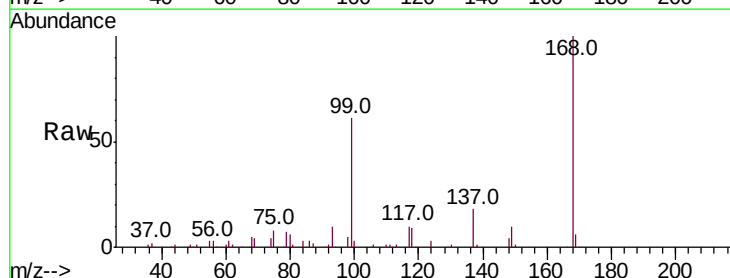
Tgt Ion: 56 Resp: 7779

Ion Ratio Lower Upper

56 100

69 161.6 25.9 38.9#

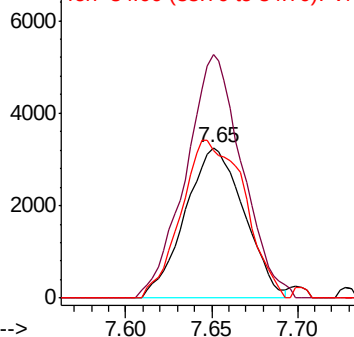
84 98.4 65.6 98.4#



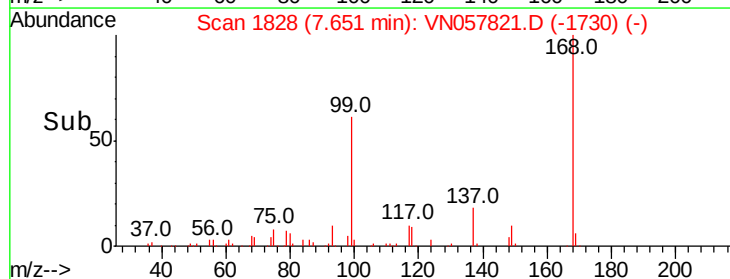
Abundance Ion 56.00 (55.70 to 56.70): VN0

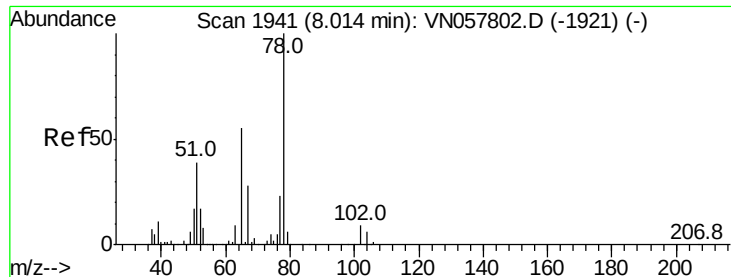
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->

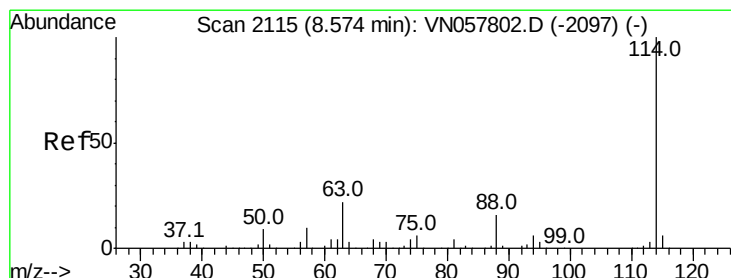
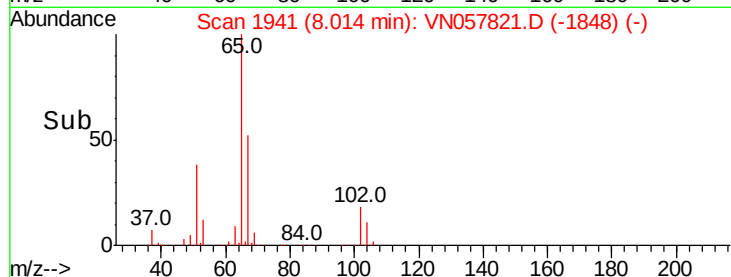
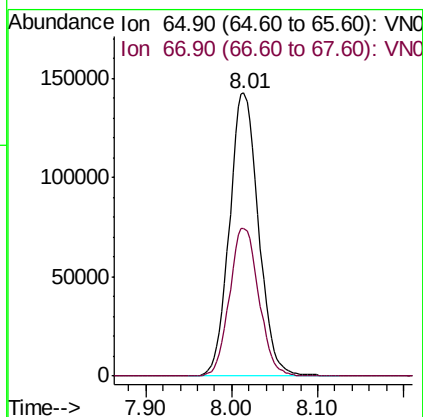
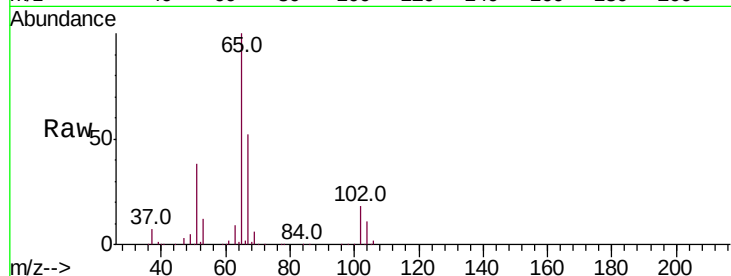




#33
 1,2-Dichloroethane-d4
 Concen: 54.085 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057821.D
 Acq: 9 Sep 2019 23:09

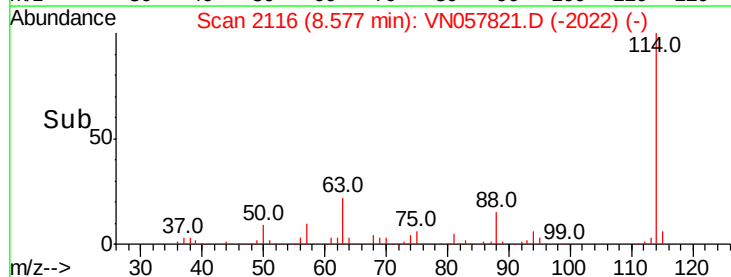
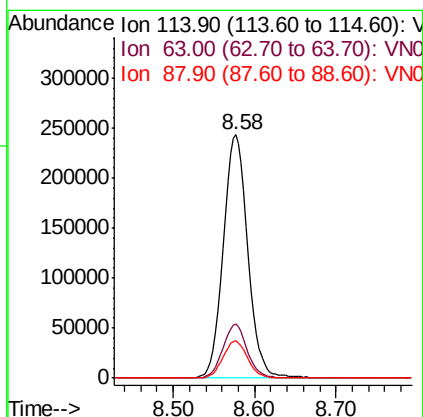
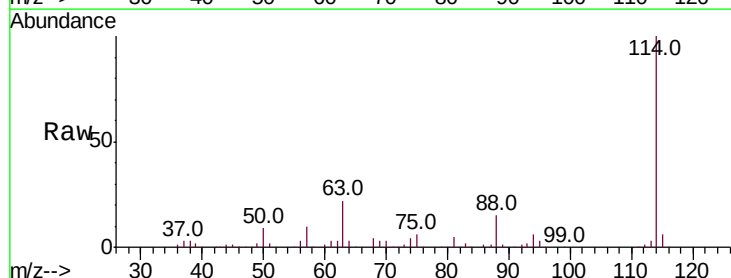
Instrument :
 MSVOA_N
 ClientSampleId :

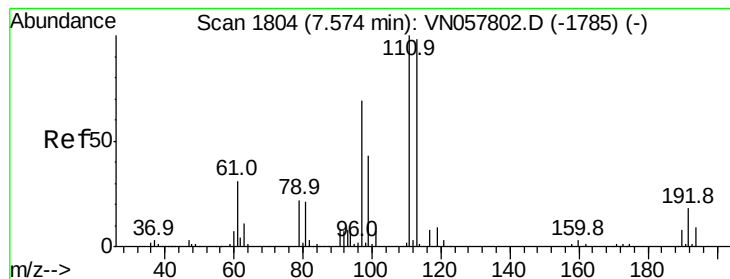
Tot Ion: 65 Resp: 335178
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057821.D
 Acq: 9 Sep 2019 23:09

Tgt Ion: 114 Resp: 517989
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 44.0
 88 15.2 0.0 31.4





#35

Dibromofluoromethane

Concen: 47.285 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

Instrument :
MSVOA_N
ClientSampleId :

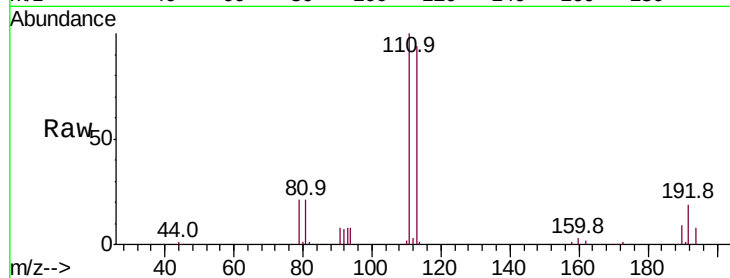
Tot Ion:113 Resp: 226064

Ion Ratio Lower Upper

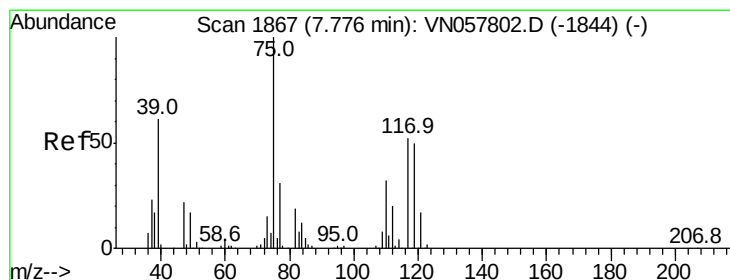
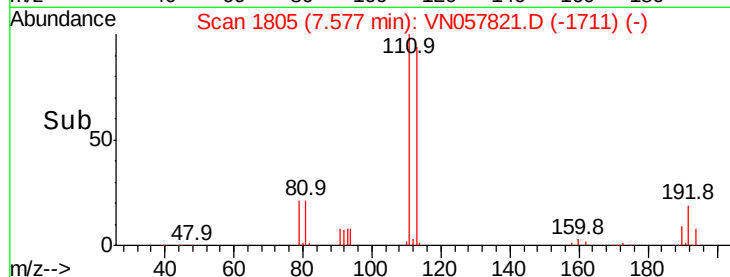
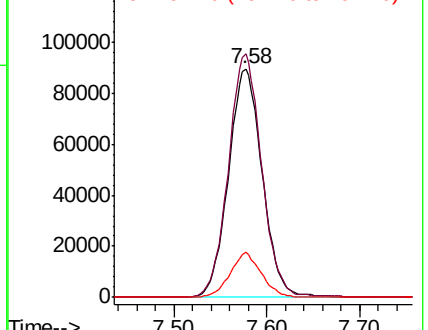
113 100

111 104.7 81.3 121.9

192 18.2 14.6 22.0



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: 4.345 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

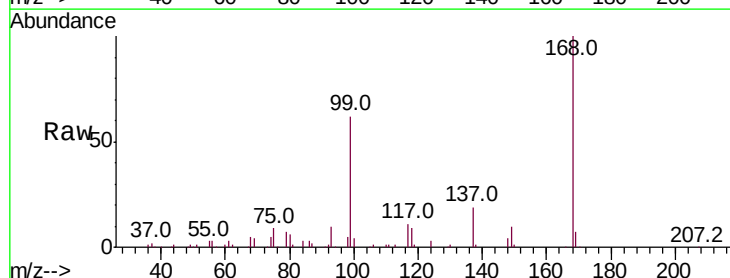
Tgt Ion: 75 Resp: 26101

Ion Ratio Lower Upper

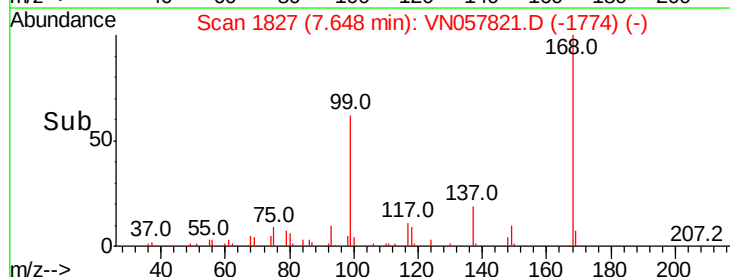
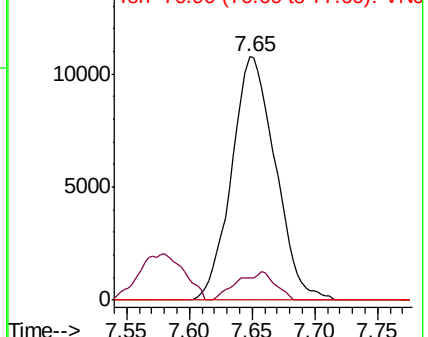
75 100

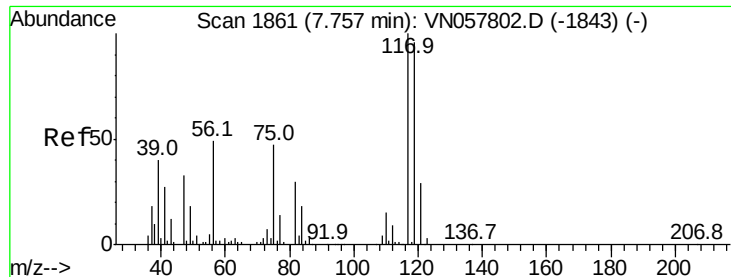
110 10.2 16.3 48.9#

77 0.0 25.0 37.4#



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

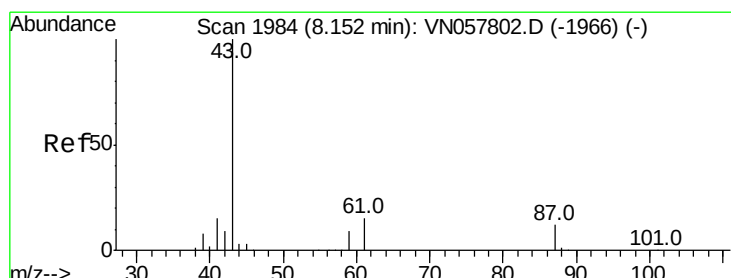
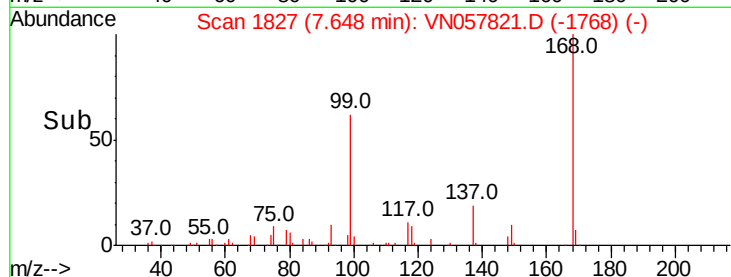
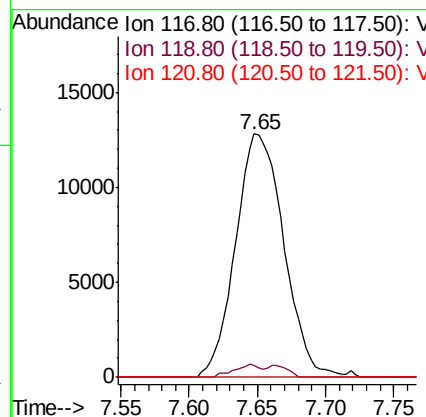
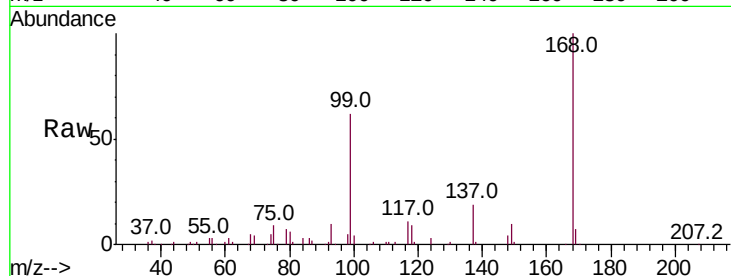




#38
Carbon Tetrachloride
Concen: 5.741 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN057821.D
Acq: 9 Sep 2019 23:09

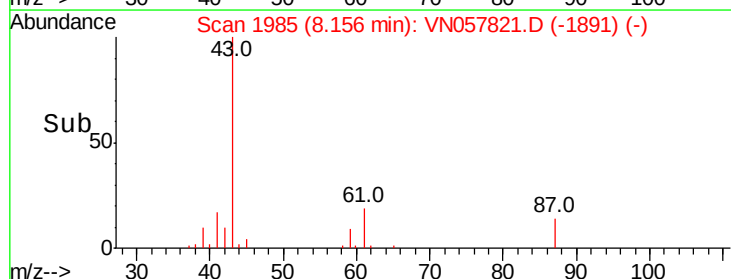
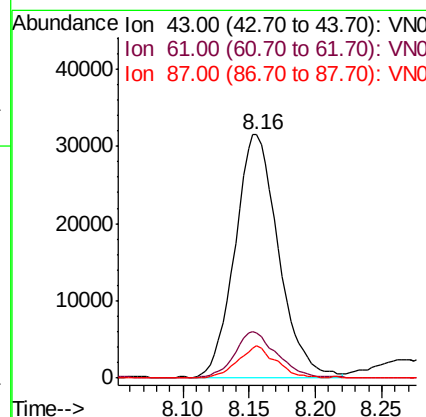
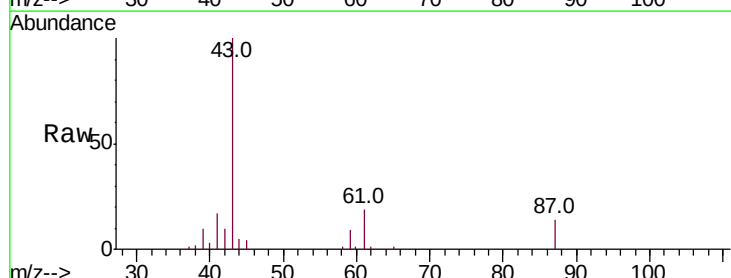
Instrument :
MSVOA_N
ClientSampleId :

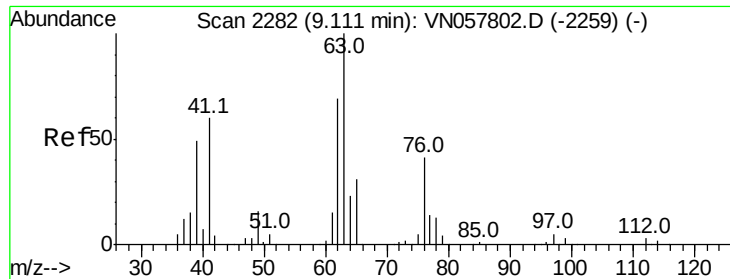
Tot Ion:117 Resp: 31487
Ion Ratio Lower Upper
117 100
119 5.0 76.9 115.3#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 6.924 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN057821.D
Acq: 9 Sep 2019 23:09

Tgt Ion: 43 Resp: 72265
Ion Ratio Lower Upper
43 100
61 18.8 20.1 30.1#
87 11.5 9.5 14.3

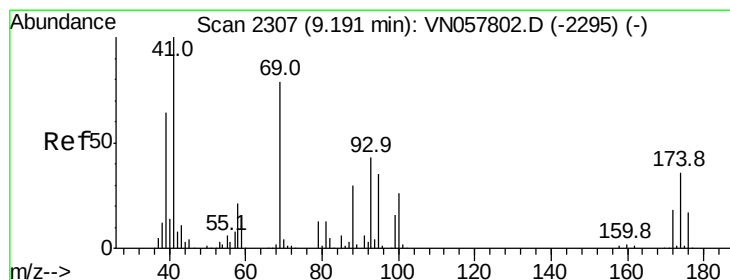
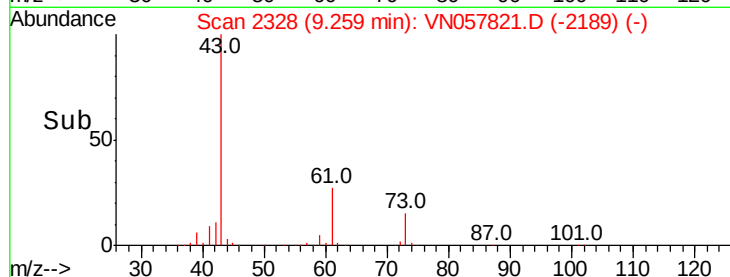
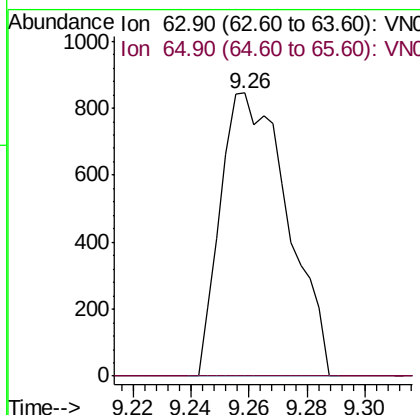
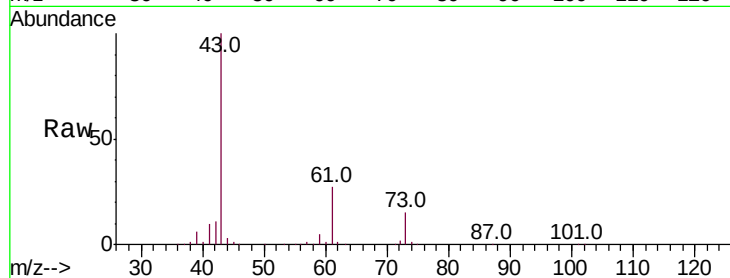




#45
 1,2-Dichloropropane
 Concen: 0.258 ug/l
 RT: 9.26 min Scan# 2328
 Delta R.T. 0.15 min
 Lab File: VN057821.D
 Acq: 9 Sep 2019 23:09

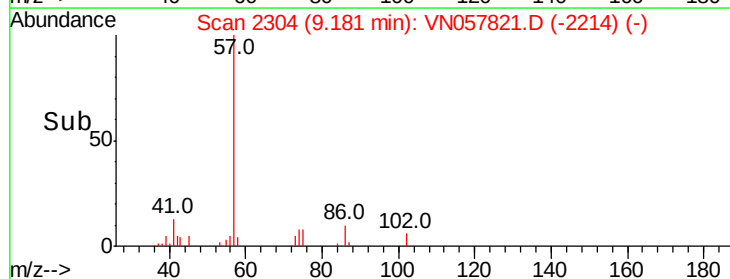
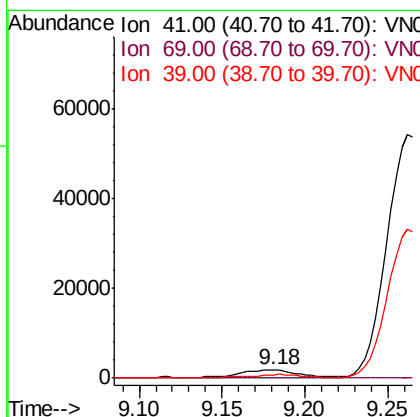
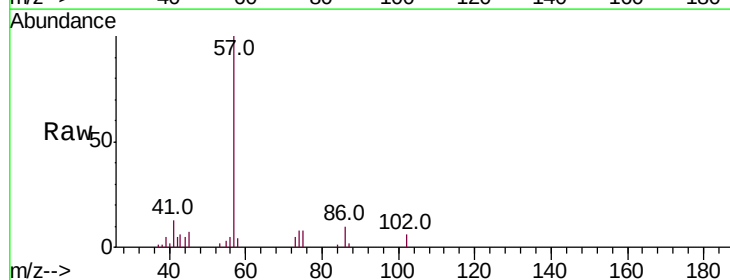
Instrument :
 MSVOA_N
 ClientSampled :

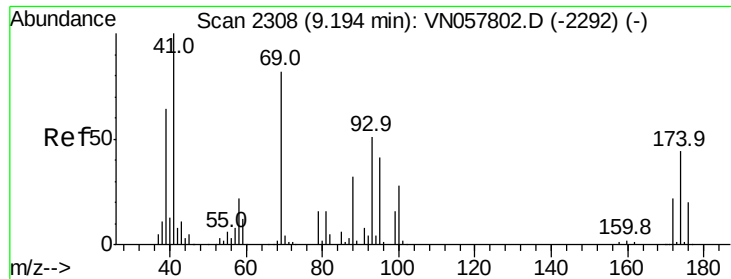
Tot Ion: 63 Resp: 1359
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 0.906 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.01 min
 Lab File: VN057821.D
 Acq: 9 Sep 2019 23:09

Tgt Ion: 41 Resp: 4796
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#





#49

1,4-Dioxane

Concen: 0.324 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

Instrument :
MSVOA_N
ClientSampled :

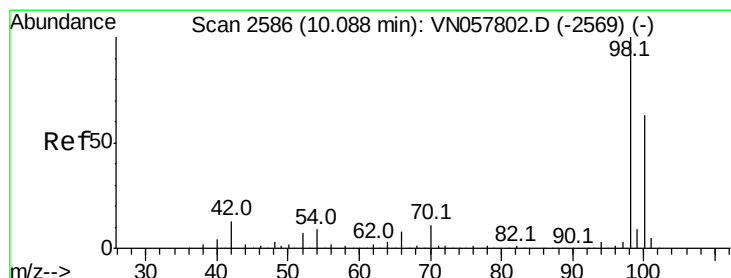
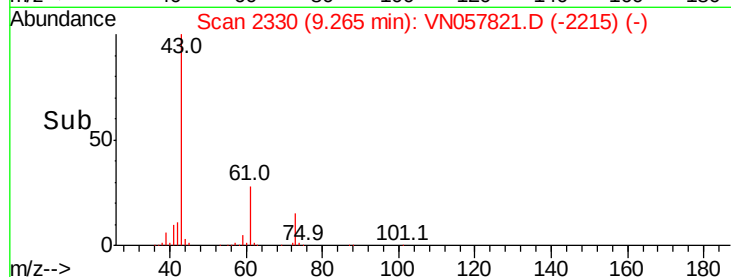
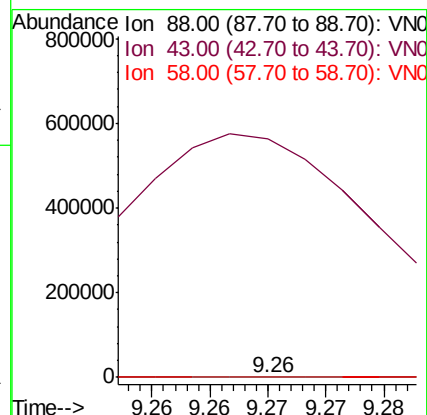
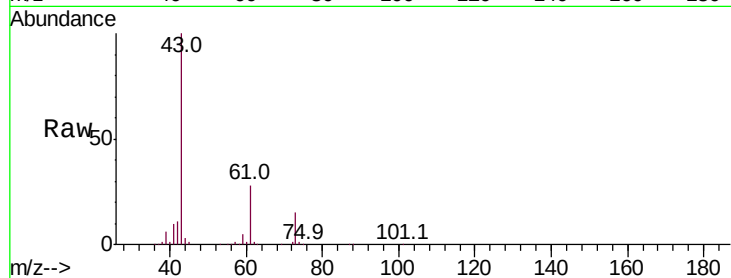
Tot Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 3679213.8 28.5 42.7#

58 17424.1 55.8 83.6#



#50

Toluene-d8

Concen: 51.008 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057821.D

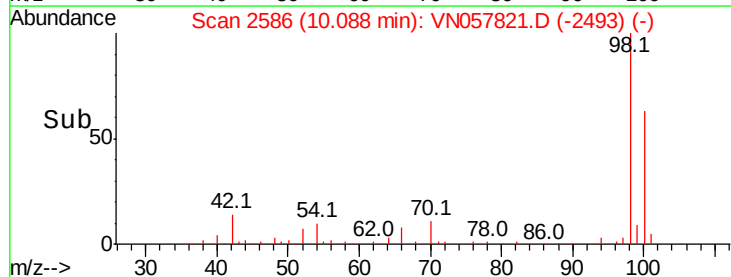
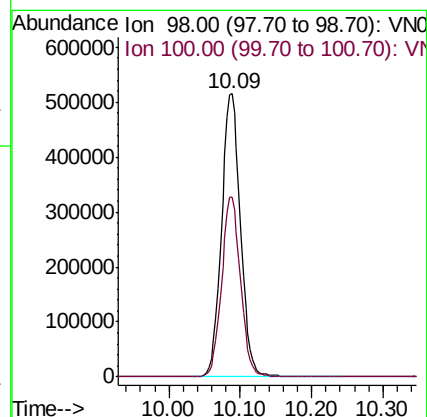
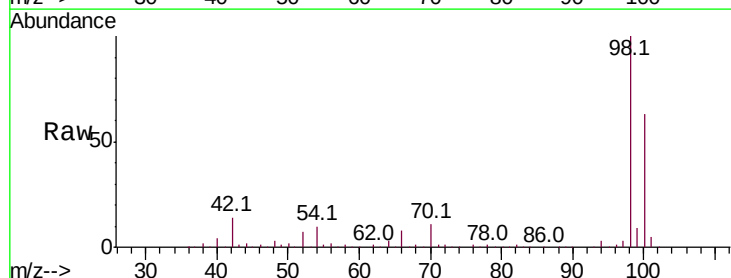
Acq: 9 Sep 2019 23:09

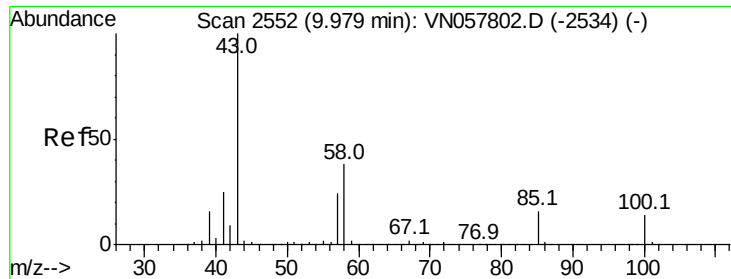
Tgt Ion: 98 Resp: 946797

Ion Ratio Lower Upper

98 100

100 63.1 50.3 75.5

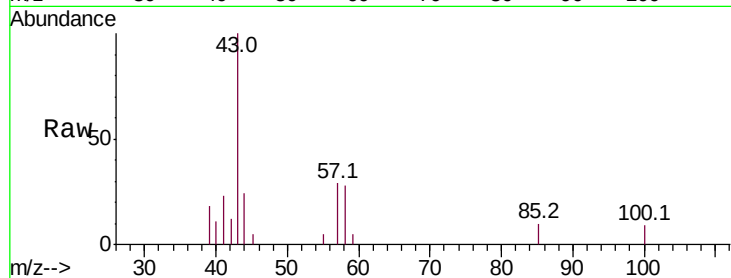




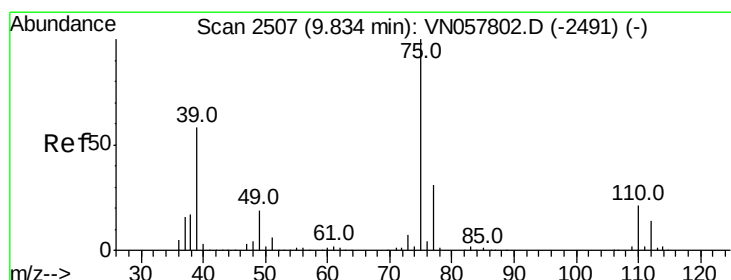
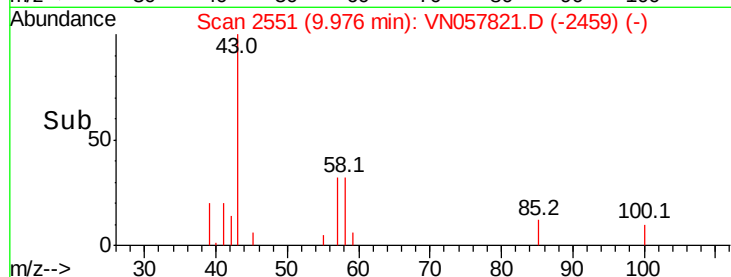
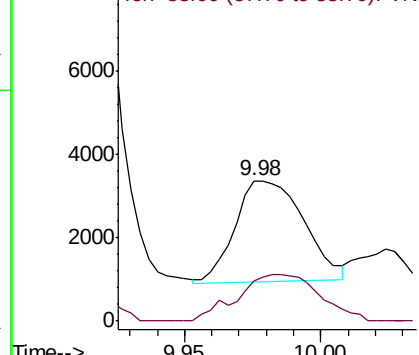
#51
4-Methyl-2-Pentanone
Concen: 0.690 ug/l
RT: 9.98 min Scan# 2551
Delta R.T. -0.00 min
Lab File: VN057821.D
Acq: 9 Sep 2019 23:09

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 4260
Ion Ratio Lower Upper
43 100
58 54.9 29.8 44.6#

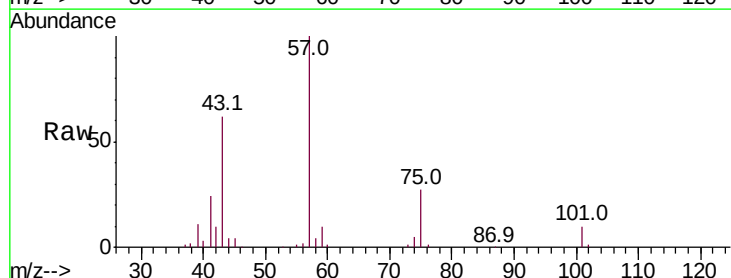


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

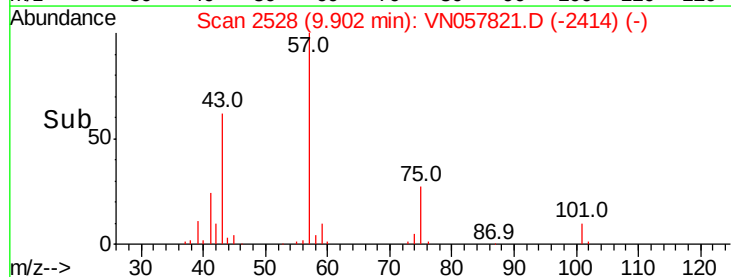
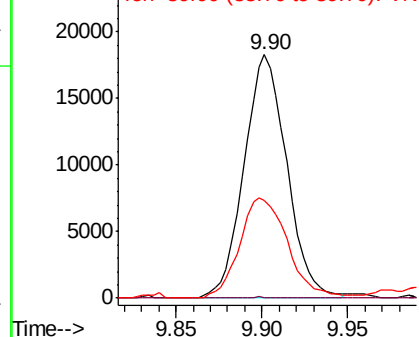


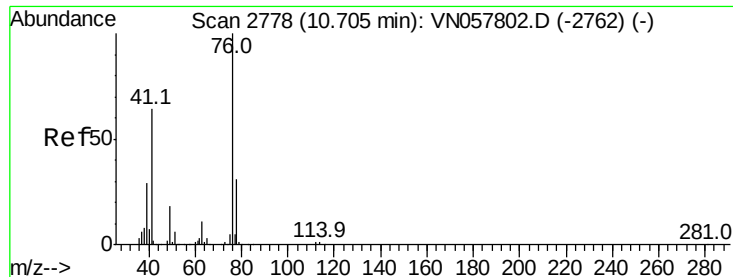
#54
cis-1,3-Dichloropropene
Concen: 4.261 ug/l
RT: 9.90 min Scan# 2528
Delta R.T. 0.07 min
Lab File: VN057821.D
Acq: 9 Sep 2019 23:09

Tgt Ion: 75 Resp: 31462
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 40.0 46.2 69.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.552 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

Instrument :

MSVOA_N

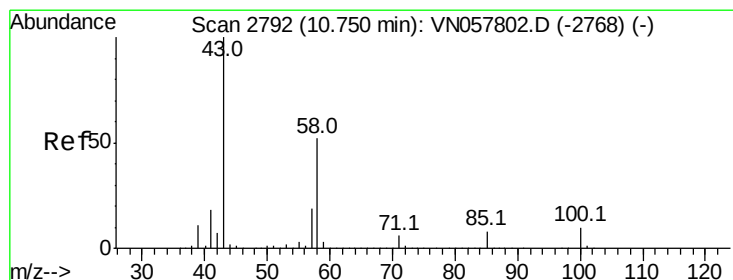
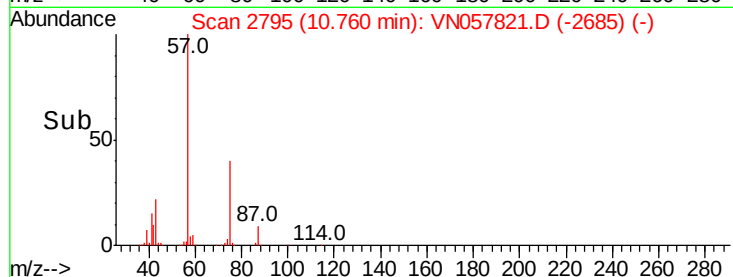
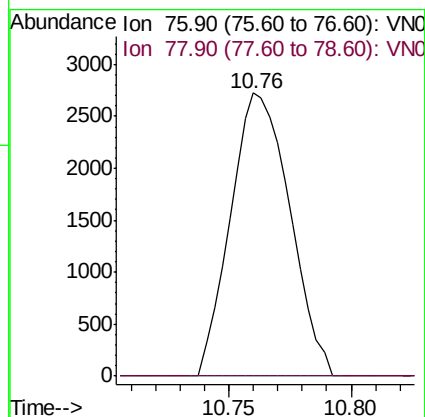
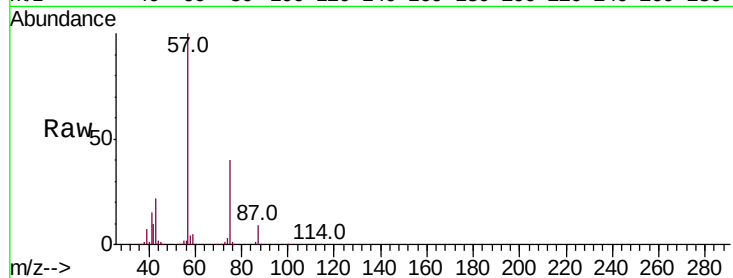
ClientSampled :

Tot Ion: 76 Resp: 4588

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 15.329 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057821.D

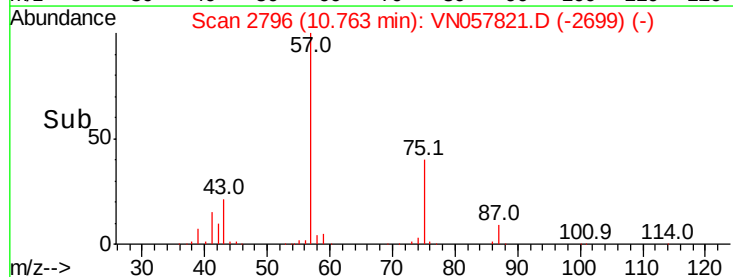
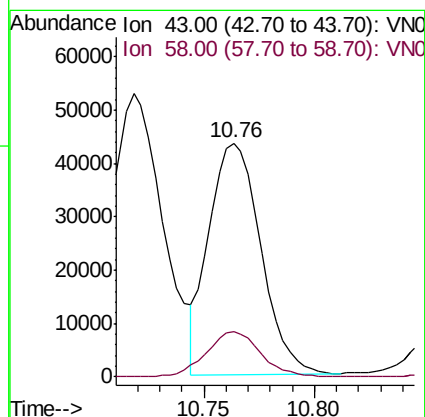
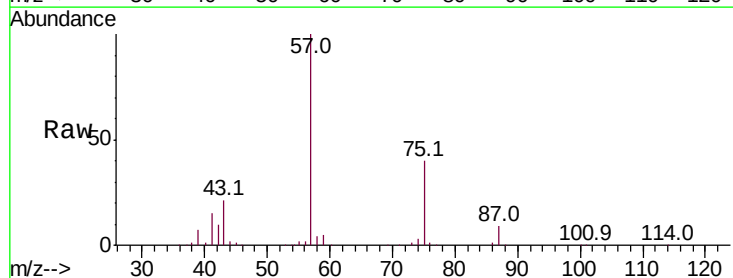
Acq: 9 Sep 2019 23:09

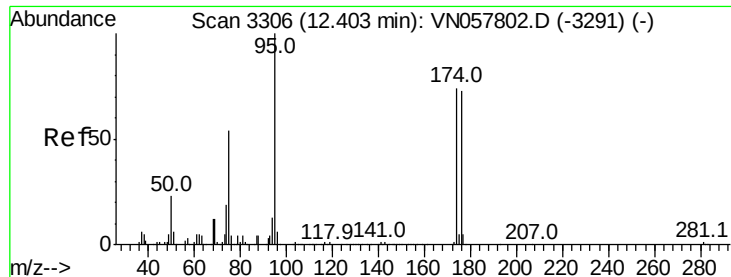
Tgt Ion: 43 Resp: 70967

Ion Ratio Lower Upper

43 100

58 20.6 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 43.031 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

Instrument :

MSVOA_N

ClientSampleId :

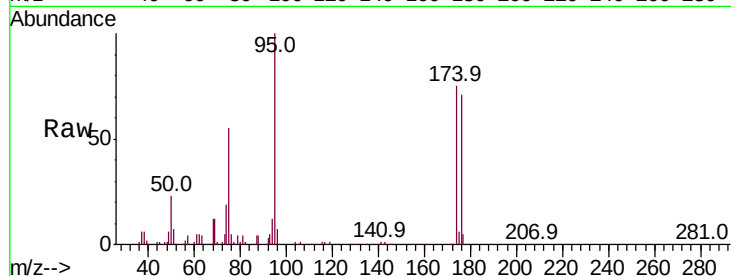
Tot Ion: 95 Resp: 304388

Ion Ratio Lower Upper

95 100

174 75.8 0.0 150.2

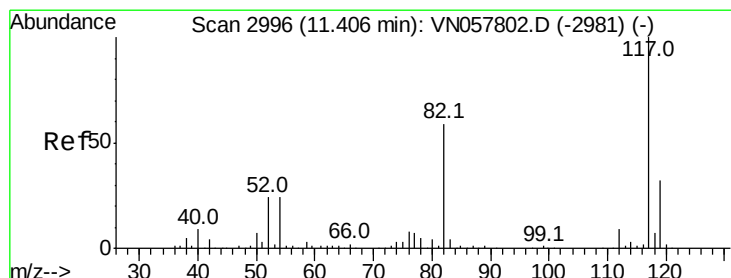
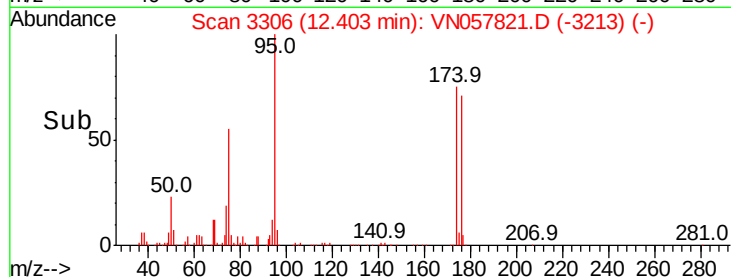
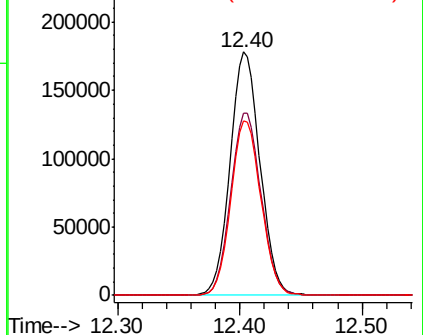
176 72.2 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057821.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN057821.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN057821.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

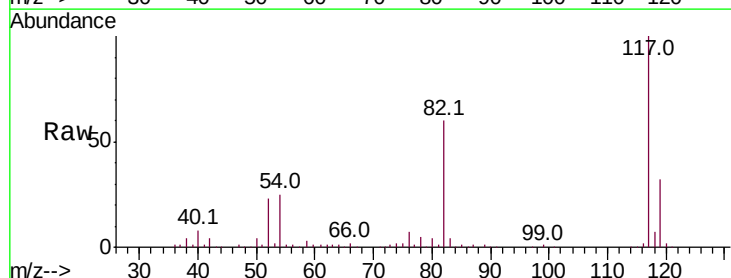
Tgt Ion: 117 Resp: 475158

Ion Ratio Lower Upper

117 100

82 59.7 47.2 70.8

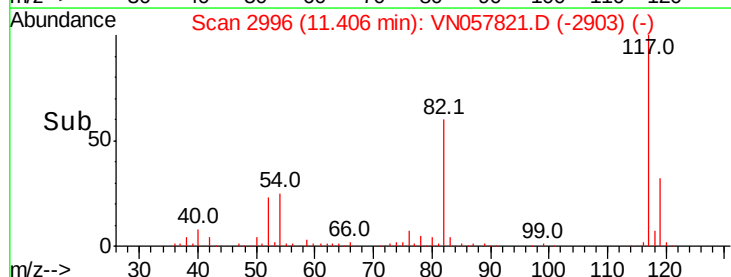
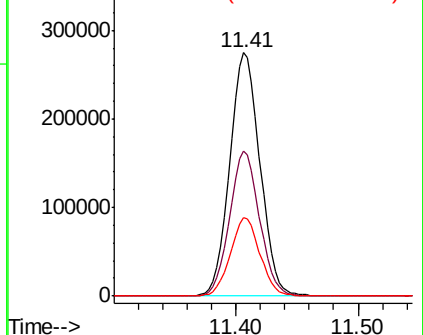
119 32.0 25.3 37.9

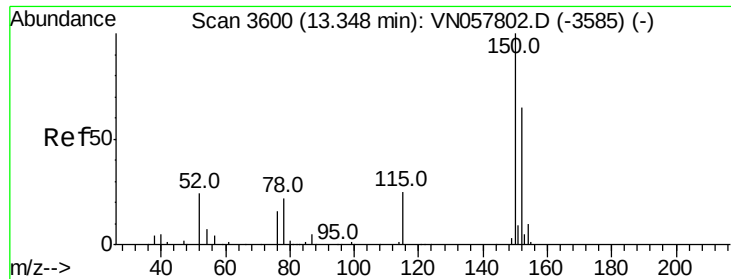


Abundance Ion 116.90 (116.60 to 117.60): VN057821.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN057821.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN057821.D (-2903) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

Instrument :

MSVOA_N

ClientSampleId :

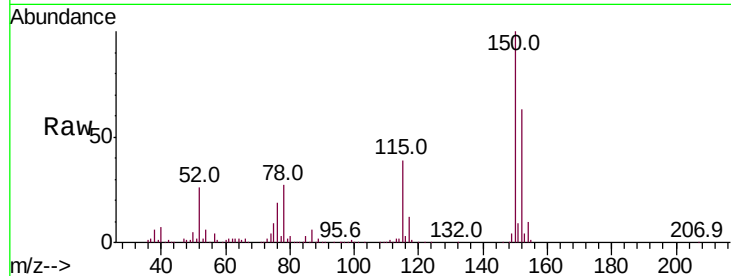
Tot Ion:152 Resp: 239524

Ion Ratio Lower Upper

152 100

115 62.4 30.3 91.0

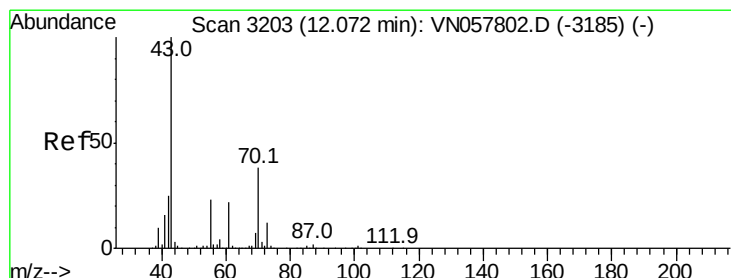
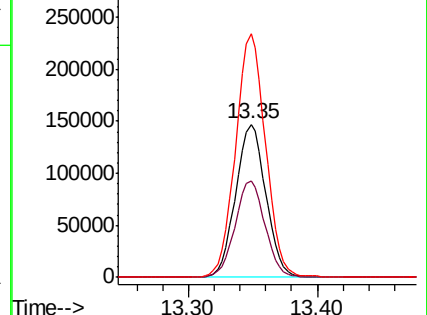
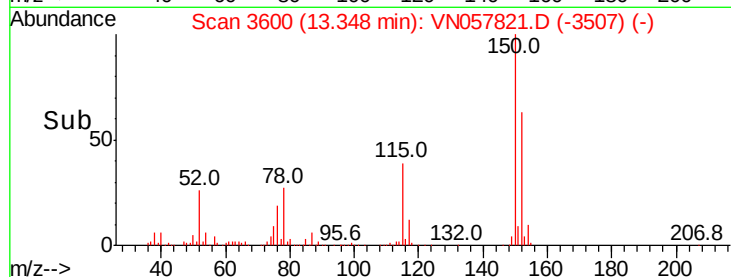
150 157.5 0.0 352.4



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: 0.360 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

Tgt Ion: 43 Resp: 2909

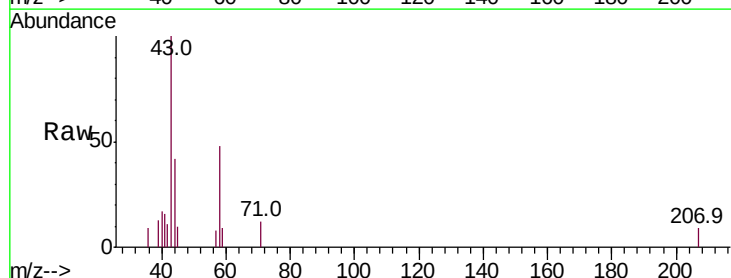
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 2.3 18.6 27.8#

61 0.0 17.4 26.2#

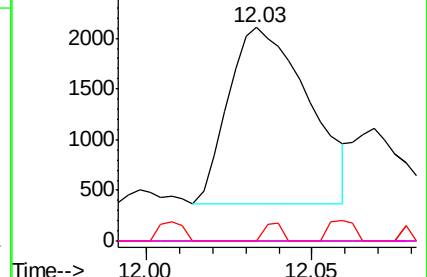
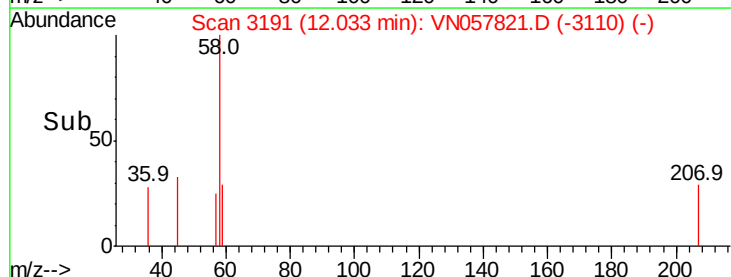


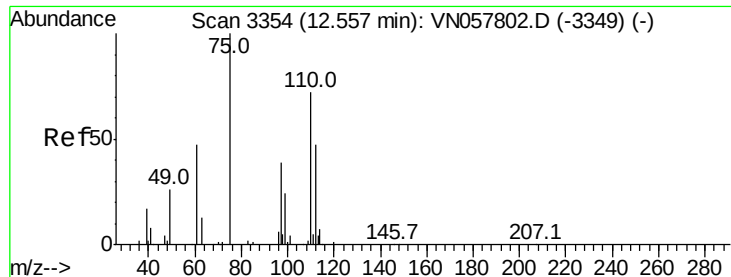
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 30.840 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

Instrument :

MSVOA_N

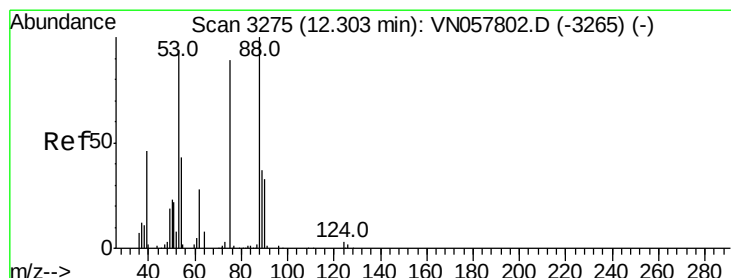
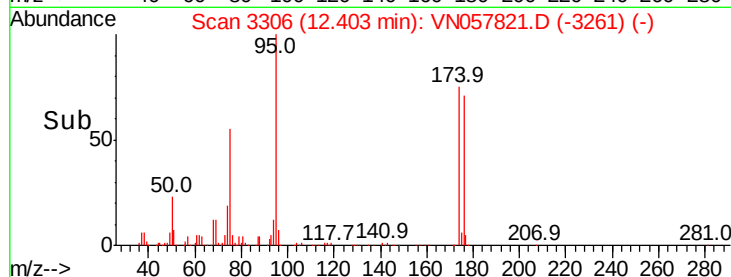
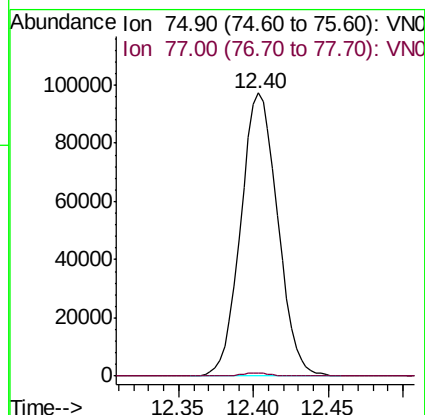
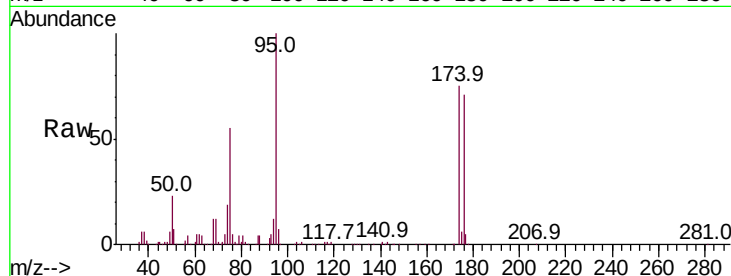
ClientSampled :

Tot Ion: 75 Resp: 167104

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 108.526 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

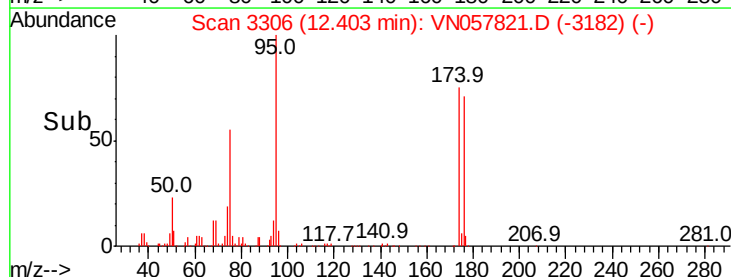
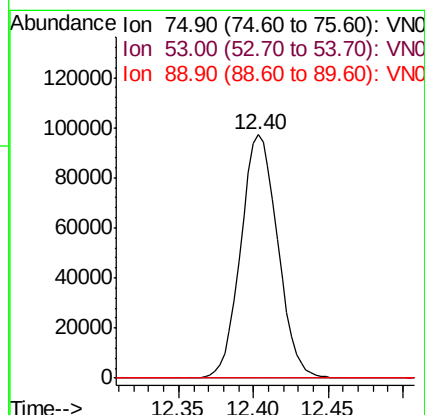
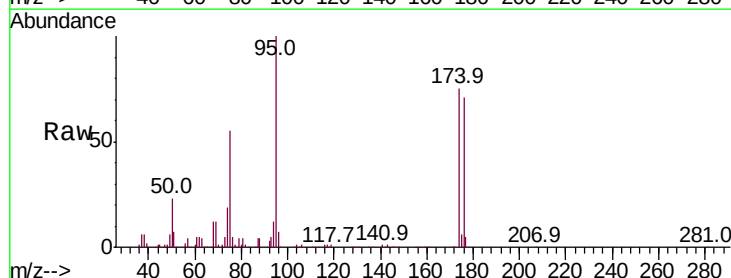
Tgt Ion: 75 Resp: 167104

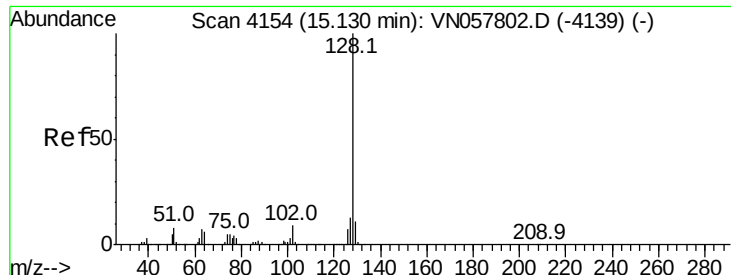
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

Instrument :

MSVOA_N

ClientSampled :

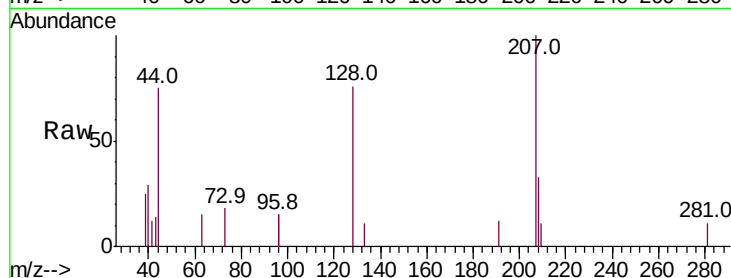
Tot Ion:128 Resp: 2194

Ion Ratio Lower Upper

128 100

127 1.4 10.3 15.5#

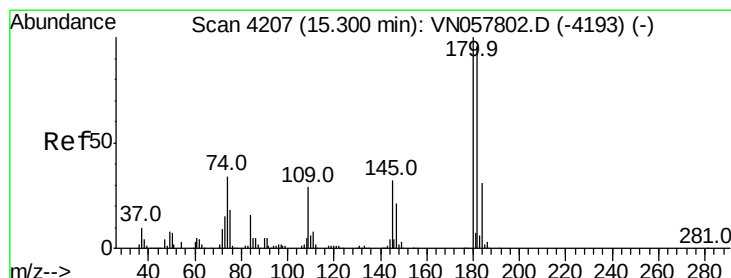
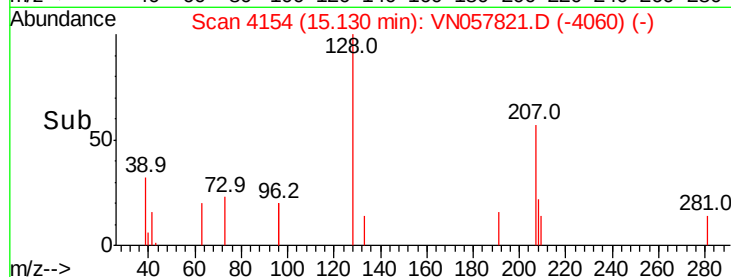
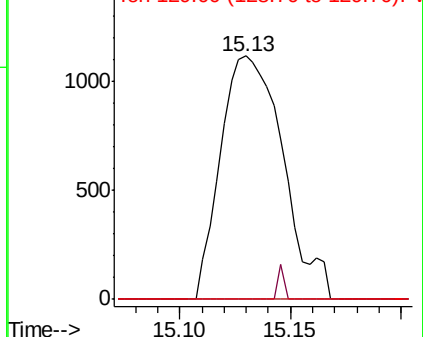
129 0.0 8.6 12.8#



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: 1.152 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. 0.01 min

Lab File: VN057821.D

Acq: 9 Sep 2019 23:09

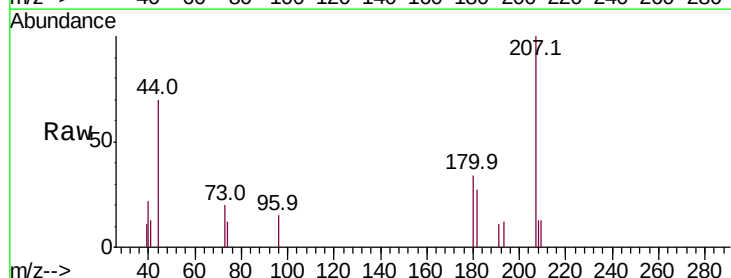
Tgt Ion:180 Resp: 760

Ion Ratio Lower Upper

180 100

182 90.3 48.3 144.8

145 20.9 16.3 48.8



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

