

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057848.D
 Acq On : 10 Sep 2019 9:48
 Operator : JC/SP
 Sample : I.BLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 11:01:02 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	291948	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	488317	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	439619	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	227812	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	310038	52.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.86%	
35) Dibromofluoromethane	7.58	113	211043	46.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.66%	
50) Toluene-d8	10.09	98	874064	49.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.90%	
62) 4-Bromofluorobenzene	12.40	95	276430	41.45	ug/l	0.00
Spiked Amount 50.000			Recovery	=	82.90%	

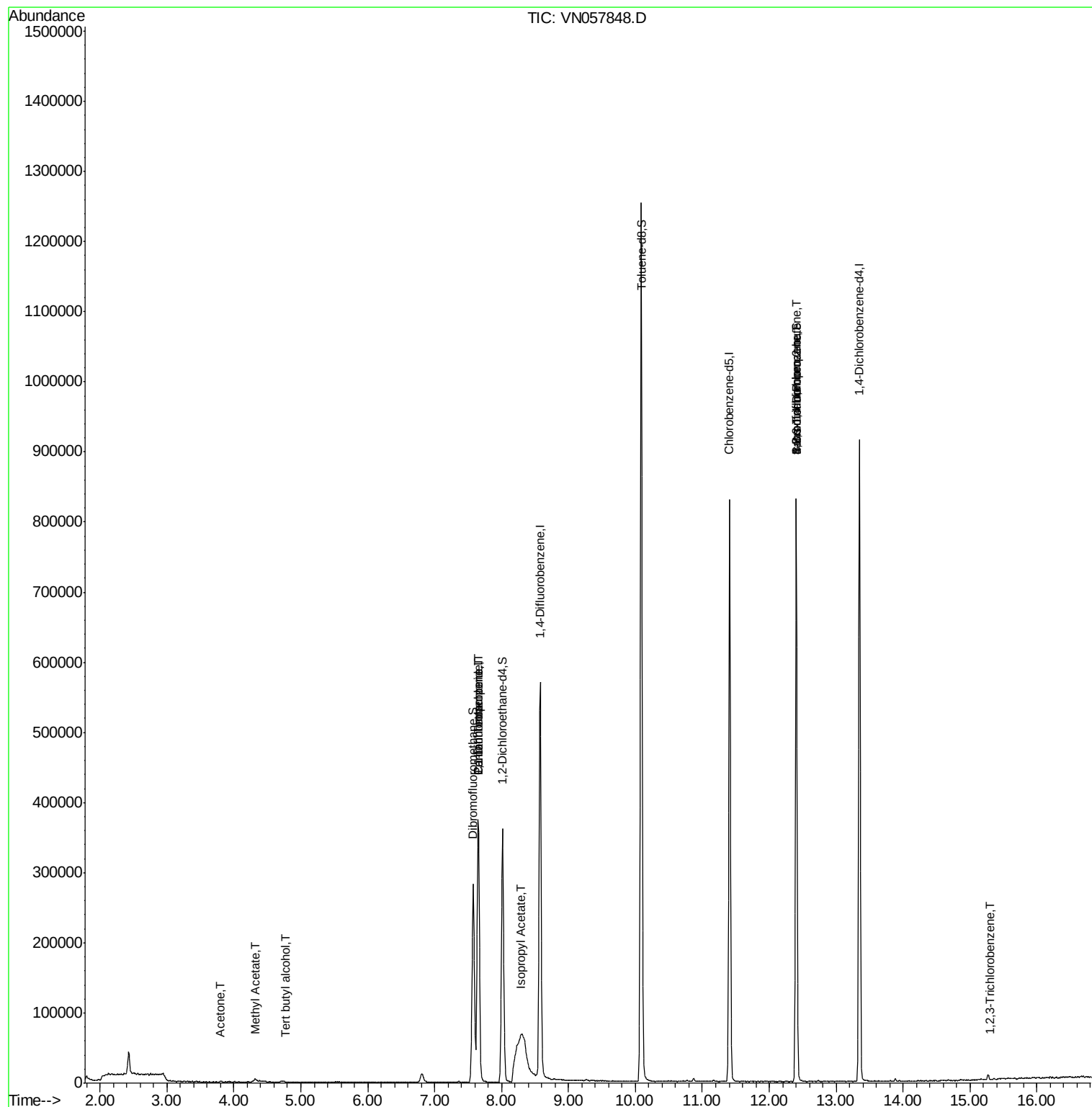
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	158	Below Cal	#	2
11) Tert butyl alcohol	4.77	59	216	0.302	ug/l #	72
16) Acetone	3.79	43	644	0.332	ug/l #	47
18) Methyl Acetate	4.32	43	9024	1.746	ug/l #	77
20) Methylene Chloride	4.53	84	202	Below Cal	#	40
31) Cyclohexane	7.65	56	7998	Below Cal	#	44
36) 1,1-Dichloropropene	7.65	75	25252	4.459	ug/l #	51
38) Carbon Tetrachloride	7.65	117	30432	5.886	ug/l #	16
43) Isopropyl Acetate	8.29	43	166465	16.918	ug/l #	56
71) Bromoform	12.40	173	794	0.319	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	154983	30.073	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	154983	105.829	ug/l #	6
95) Naphthalene	15.13	128	431	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.30	180	33	1.005	ug/l #	83

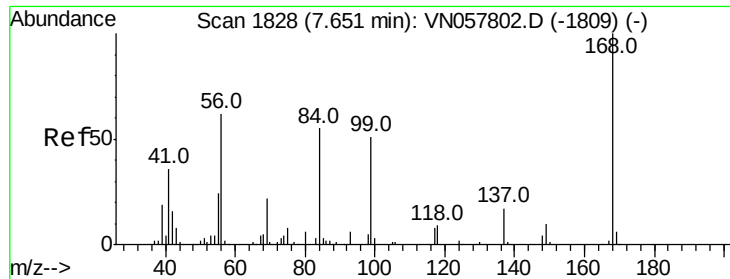
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057848.D

Acq: 10 Sep 2019 9:48

Instrument :

MSVOA_N

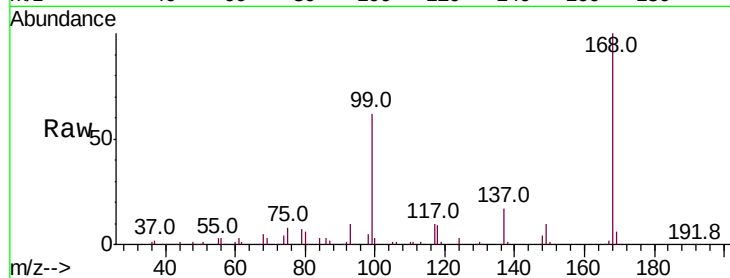
ClientSampleId :

Tot Ion:168 Resp: 291948

Ion Ratio Lower Upper

168 100

99 61.7 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

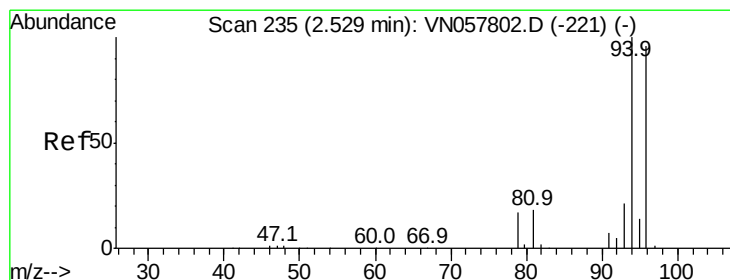
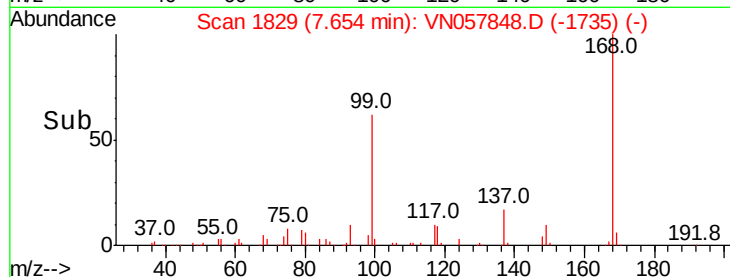
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 244

Delta R.T. 0.03 min

Lab File: VN057848.D

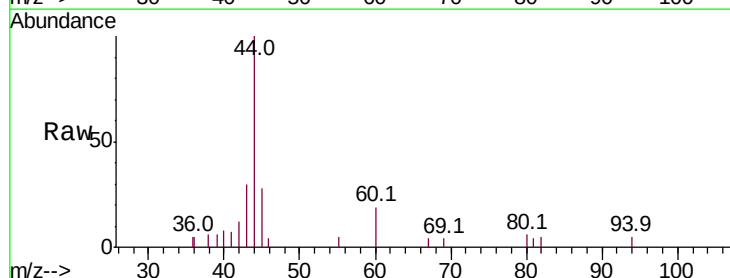
Acq: 10 Sep 2019 9:48

Tgt Ion: 94 Resp: 158

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

250

200

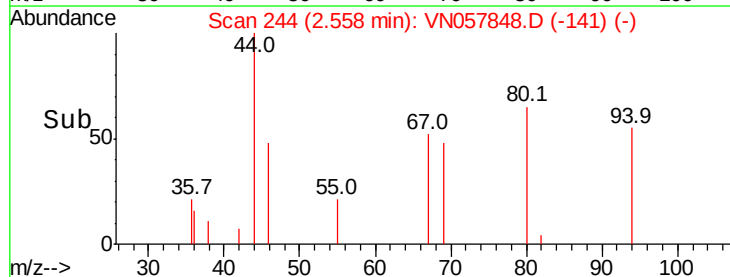
150

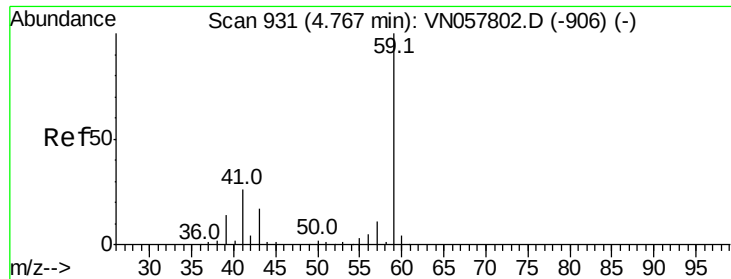
100

50

0

Time-->

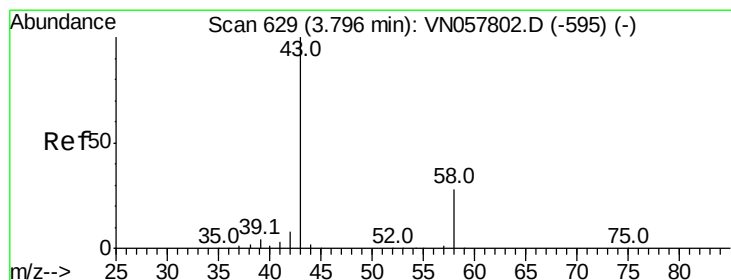
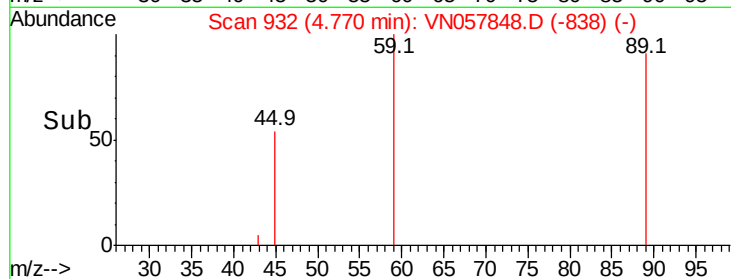
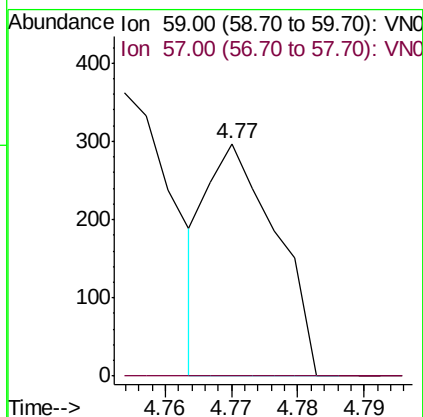
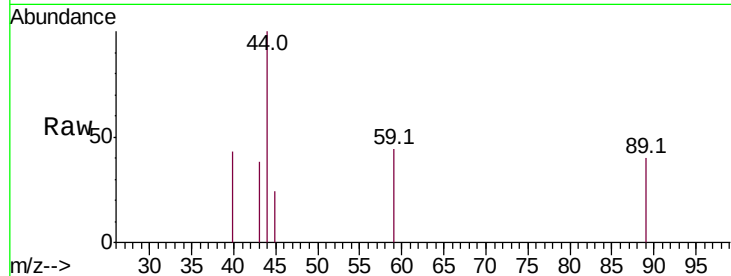




#11
Tert butyl alcohol
Concen: 0.302 ug/l
RT: 4.77 min Scan# 932
Delta R.T. 0.00 min
Lab File: VN057848.D
Acq: 10 Sep 2019 9:48

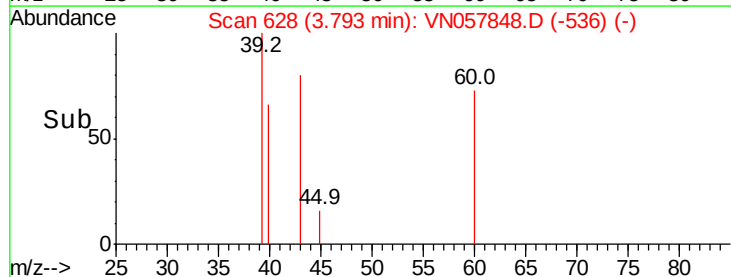
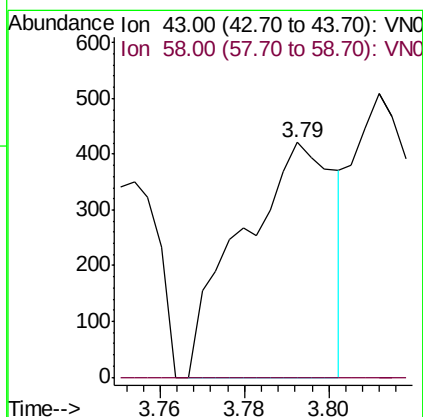
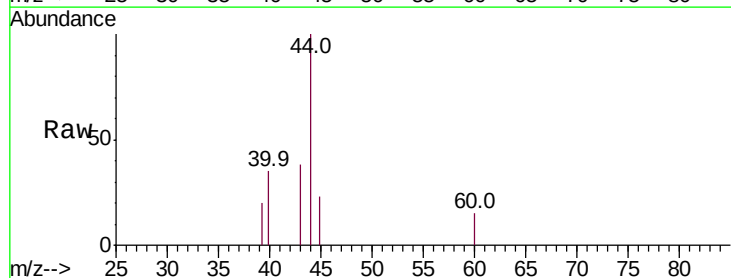
Instrument :
MSVOA_N
ClientSampleId :

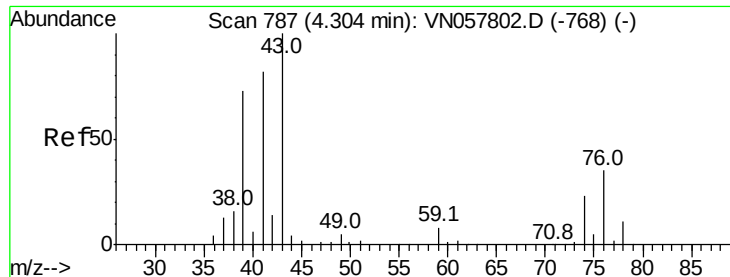
Tot Ion: 59 Resp: 216
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 0.332 ug/l
RT: 3.79 min Scan# 628
Delta R.T. -0.00 min
Lab File: VN057848.D
Acq: 10 Sep 2019 9:48

Tgt Ion: 43 Resp: 644
Ion Ratio Lower Upper
43 100
58 0.0 22.2 33.2#

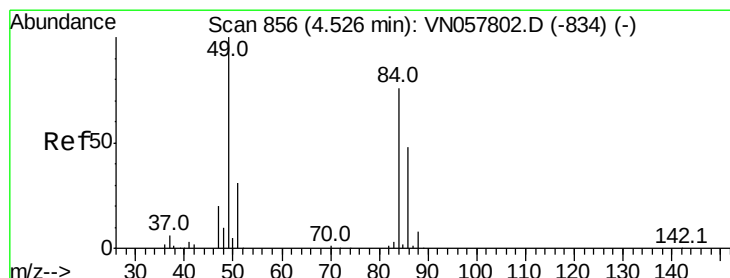
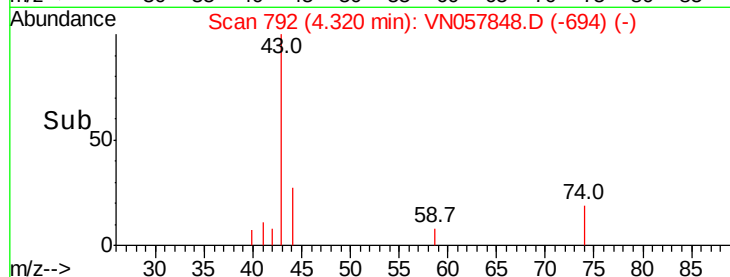
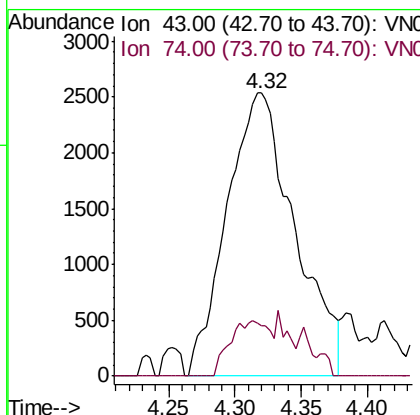
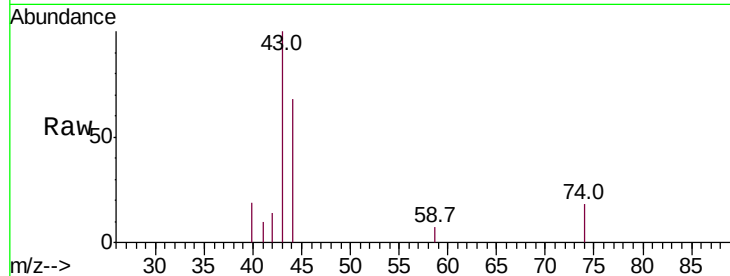




#18
Methyl Acetate
Concen: 1.746 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN057848.D
Acq: 10 Sep 2019 9:48

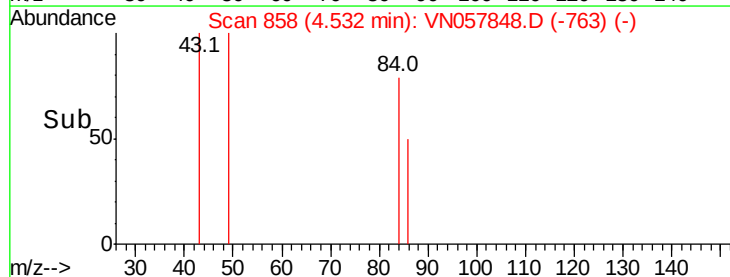
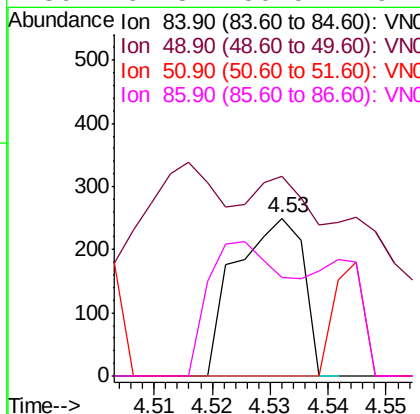
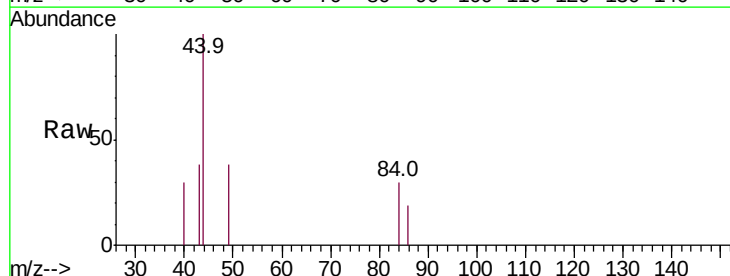
Instrument :
MSVOA_N
ClientSampleId :

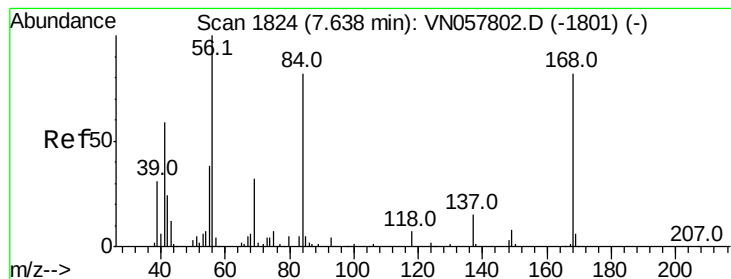
Tot Ion: 43 Resp: 9024
Ion Ratio Lower Upper
43 100
74 11.5 17.9 26.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN057848.D
Acq: 10 Sep 2019 9:48

Tgt Ion: 84 Resp: 202
Ion Ratio Lower Upper
84 100
49 29.2 104.8 157.2#
51 0.0 33.0 49.4#
86 62.8 50.5 75.7





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057848.D

Acq: 10 Sep 2019 9:48

Instrument :
MSVOA_N
ClientSampled :

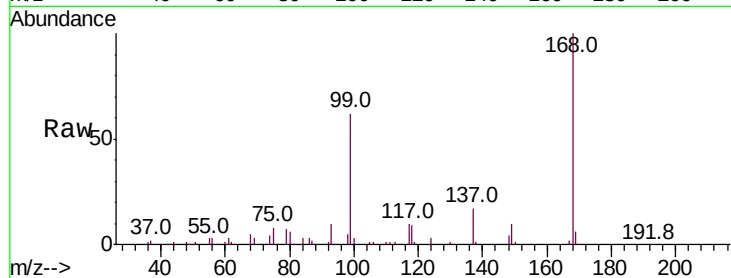
Tot Ion: 56 Resp: 7998

Ion Ratio Lower Upper

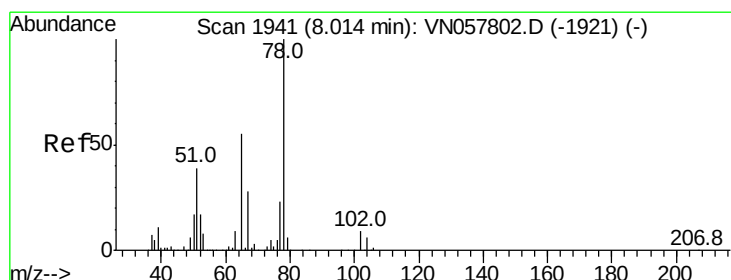
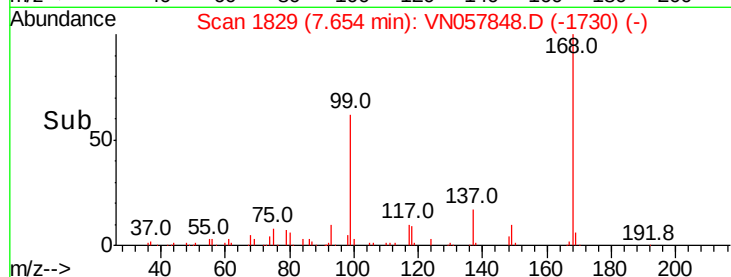
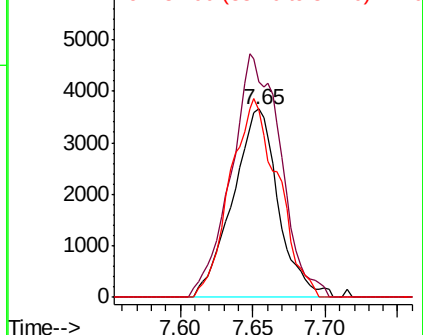
56 100

69 114.5 25.9 38.9#

84 99.6 65.6 98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 52.432 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057848.D

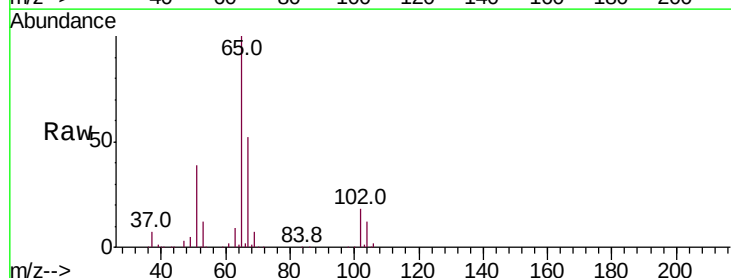
Acq: 10 Sep 2019 9:48

Tgt Ion: 65 Resp: 310038

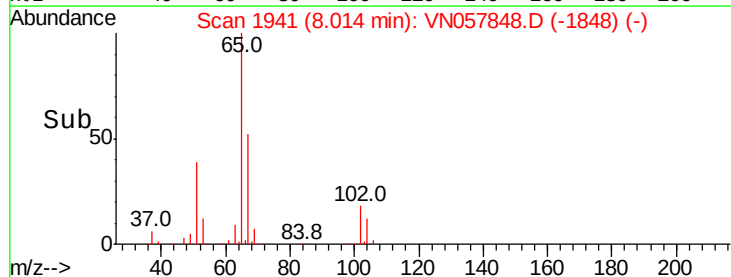
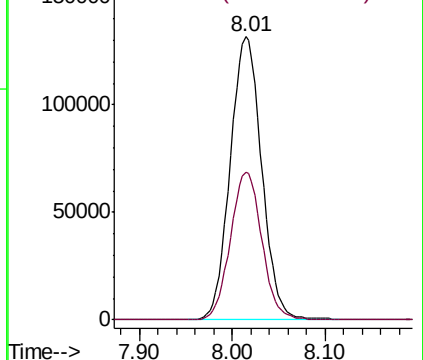
Ion Ratio Lower Upper

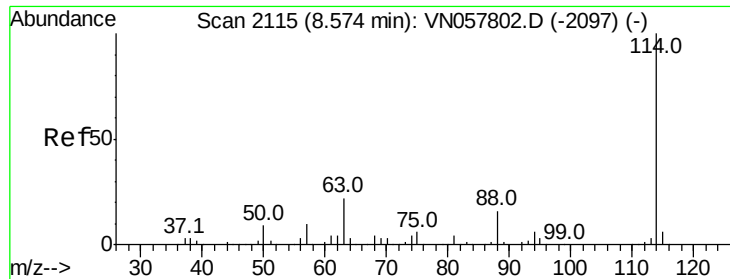
65 100

67 52.2 0.0 104.0



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

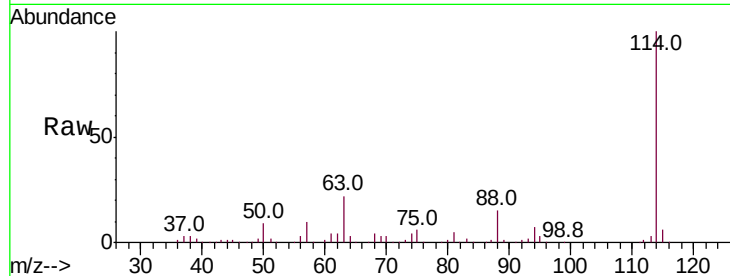




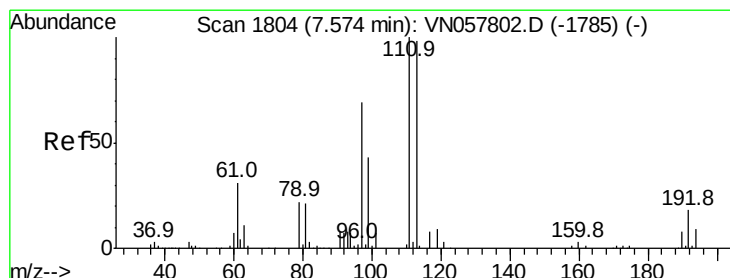
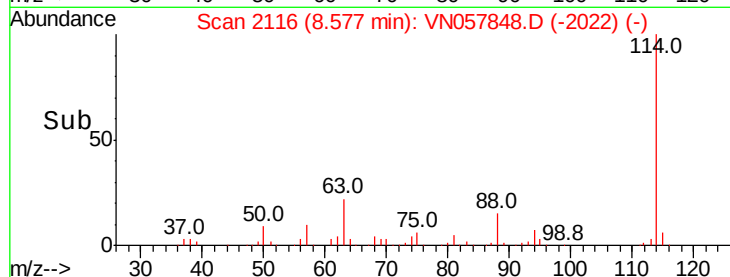
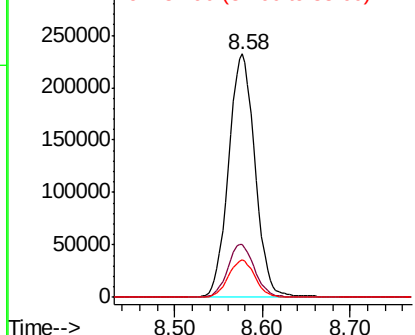
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057848.D
 Acq: 10 Sep 2019 9:48

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	44.0
88	15.3	0.0	31.4

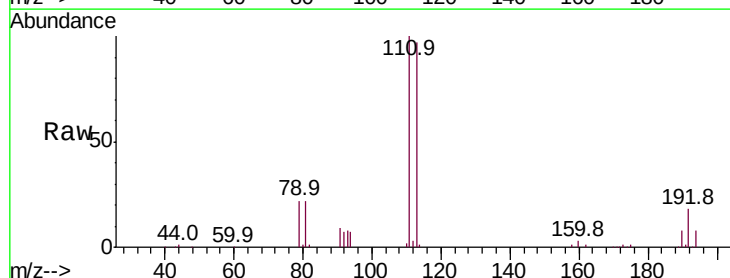


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

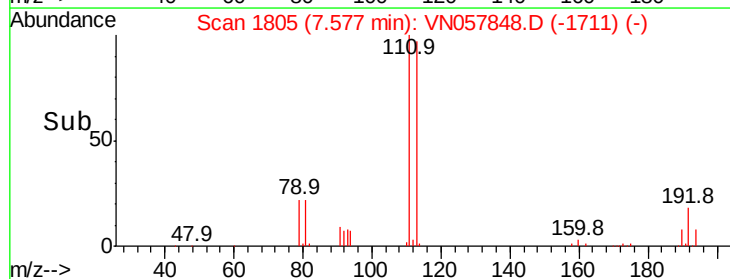
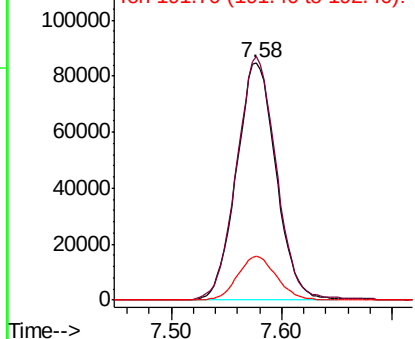


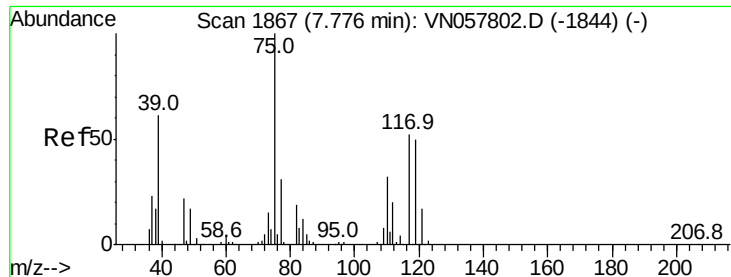
#35
 Dibromofluoromethane
 Concen: 46.826 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057848.D
 Acq: 10 Sep 2019 9:48

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	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

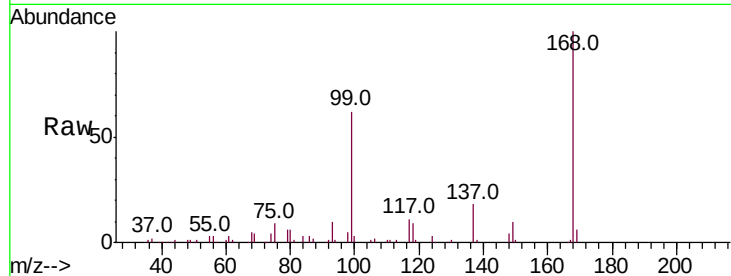




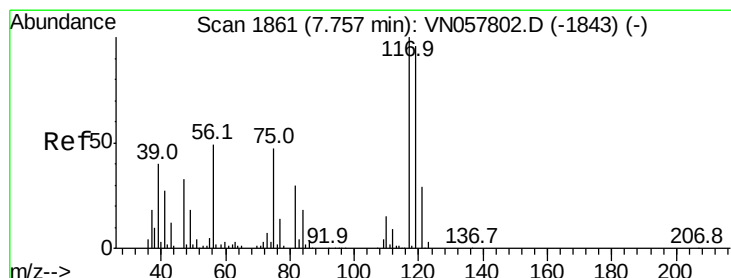
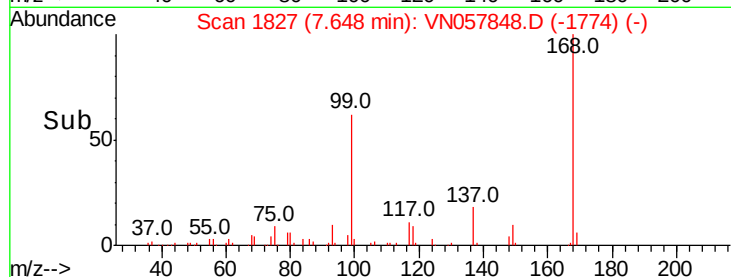
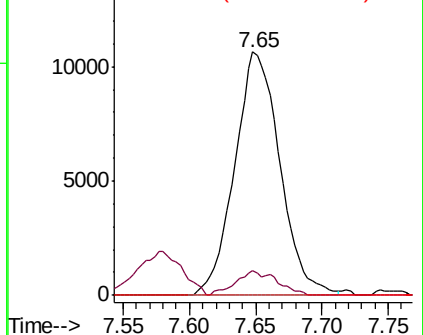
#36
 1,1-Dichloropropene
 Concen: 4.459 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057848.D
 Acq: 10 Sep 2019 9:48

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	16.3	48.9#
77	0.0	25.0	37.4#

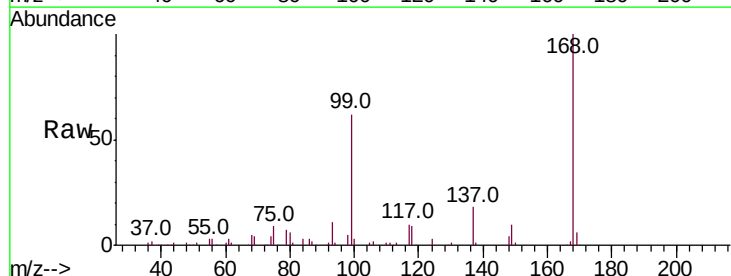


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-1844) (-)
 Ion 109.90 (109.60 to 110.60): VN057802.D (-1844) (-)
 Ion 76.90 (76.60 to 77.60): VN057802.D (-1844) (-)

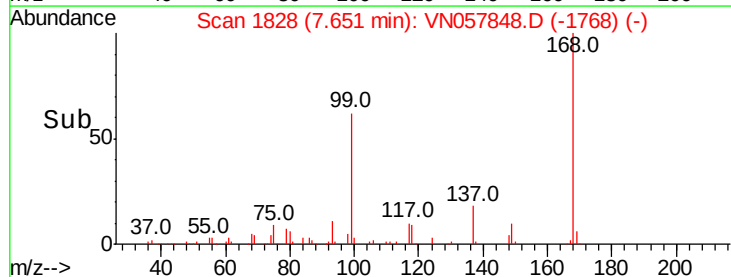
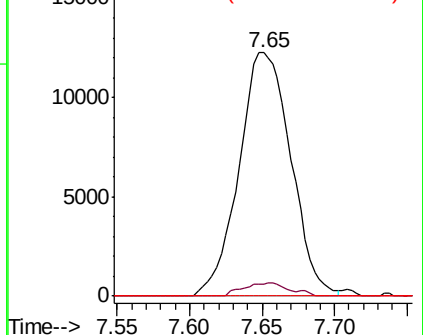


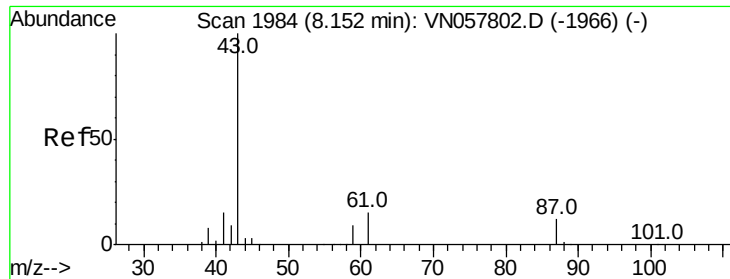
#38
 Carbon Tetrachloride
 Concen: 5.886 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057848.D
 Acq: 10 Sep 2019 9:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	76.9	115.3#
121	0.0	23.4	35.2#



Abundance Ion 116.80 (116.50 to 117.50): VN057802.D (-1843) (-)
 Ion 118.80 (118.50 to 119.50): VN057802.D (-1843) (-)
 Ion 120.80 (120.50 to 121.50): VN057802.D (-1843) (-)





#43

Isopropyl Acetate

Concen: 16.918 ug/l

RT: 8.29 min Scan# 2028

Delta R.T. 0.14 min

Lab File: VN057848.D

Acq: 10 Sep 2019 9:48

Instrument :

MSVOA_N

ClientSampled :

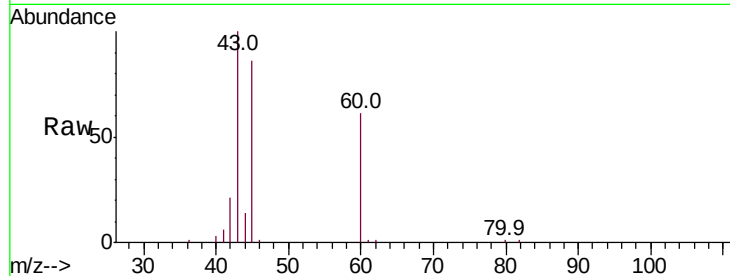
Tot Ion: 43 Resp: 166465

Ion Ratio Lower Upper

43 100

61 0.1 20.1 30.1#

87 0.0 9.5 14.3#

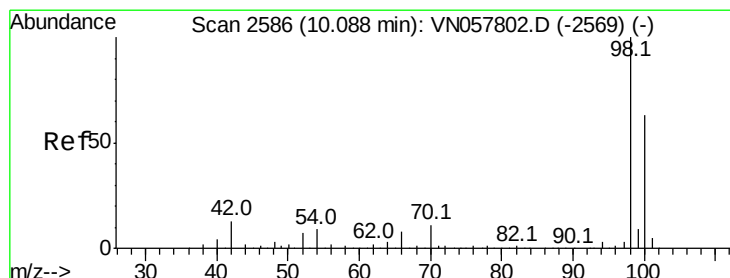
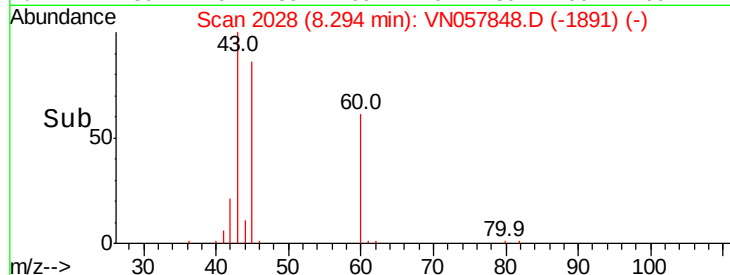
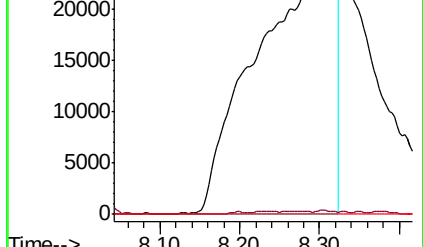


Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN057802.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN057802.D (-1966) (-)

Time-->



#50

Toluene-d8

Concen: 49.951 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057848.D

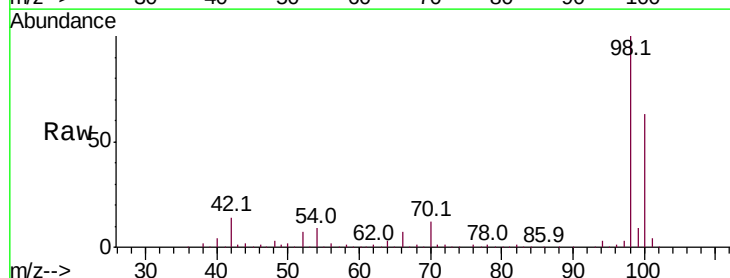
Acq: 10 Sep 2019 9:48

Tgt Ion: 98 Resp: 874064

Ion Ratio Lower Upper

98 100

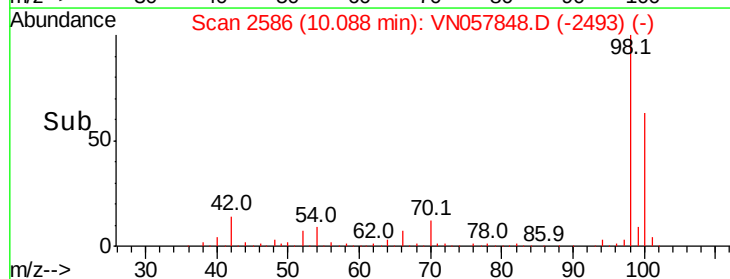
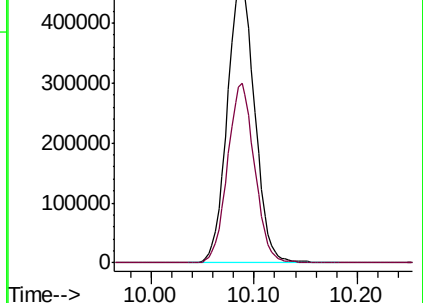
100 62.7 50.3 75.5

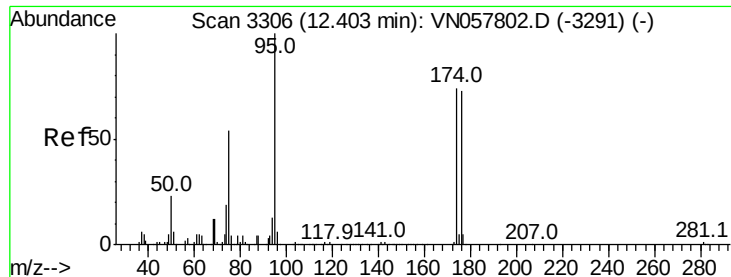


Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

Time-->





#62

4-Bromofluorobenzene

Concen: 41.453 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057848.D

Acq: 10 Sep 2019 9:48

Instrument :

MSVOA_N

ClientSampleId :

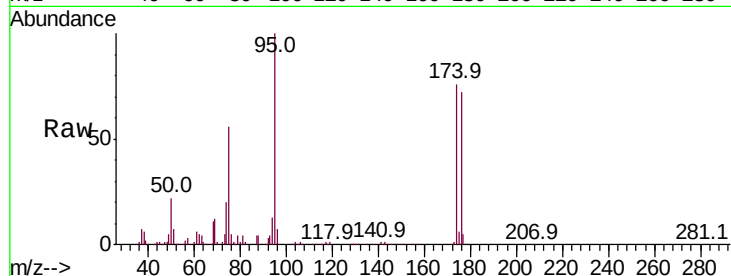
Tot Ion: 95 Resp: 276430

Ion Ratio Lower Upper

95 100

174 75.6 0.0 150.2

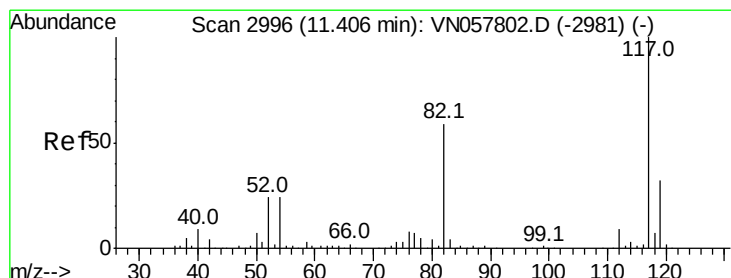
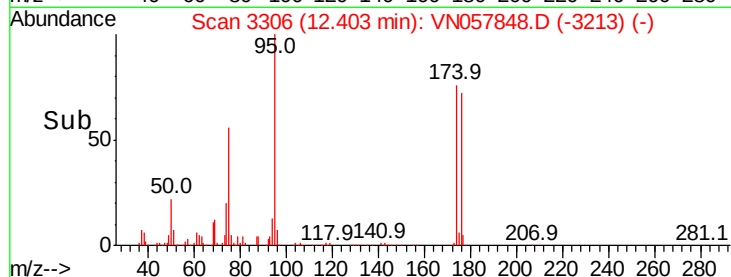
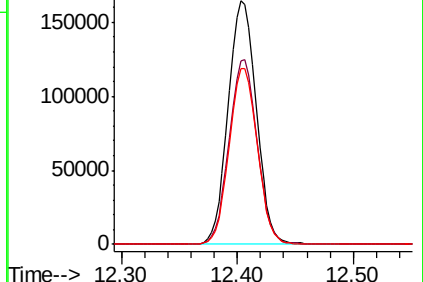
176 71.8 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057848.D

Acq: 10 Sep 2019 9:48

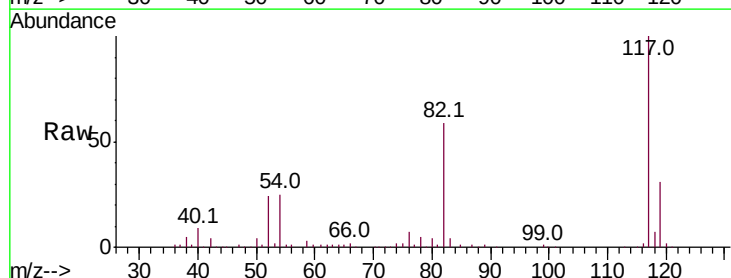
Tgt Ion: 117 Resp: 439619

Ion Ratio Lower Upper

117 100

82 58.9 47.2 70.8

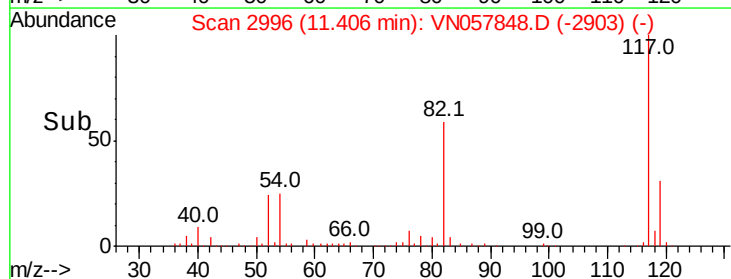
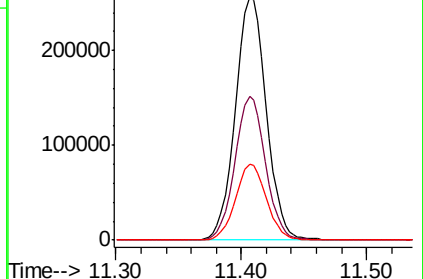
119 31.4 25.3 37.9

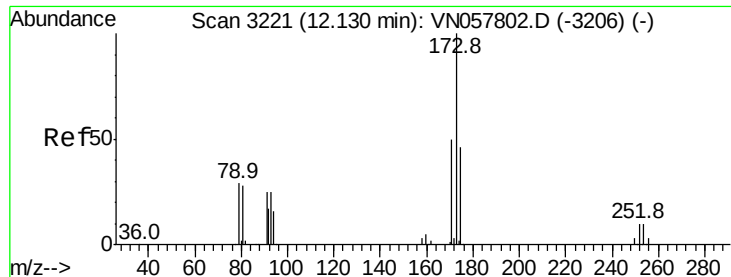


Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)





#71

Bromoform

Concen: 0.319 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN057848.D

Acq: 10 Sep 2019 9:48

Instrument :

MSVOA_N

ClientSampled :

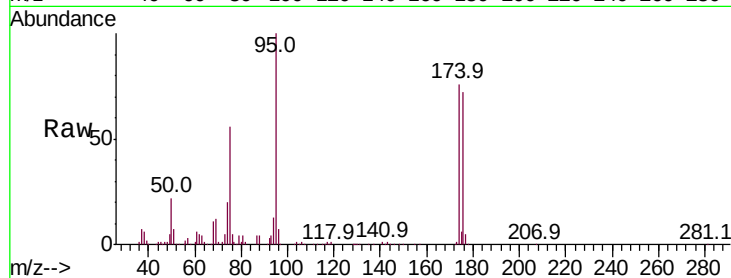
Tot Ion:173 Resp: 794

Ion Ratio Lower Upper

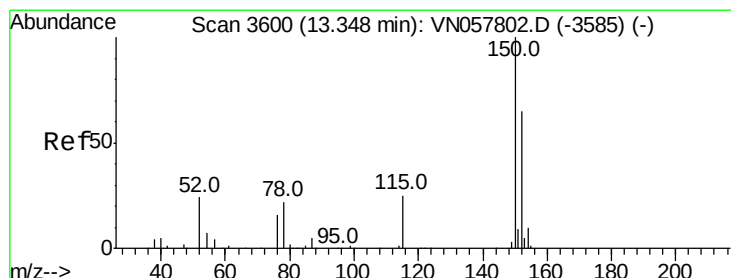
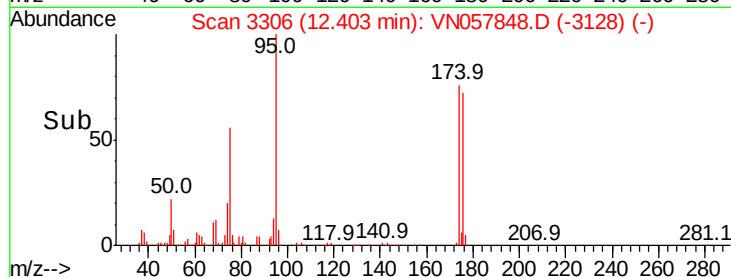
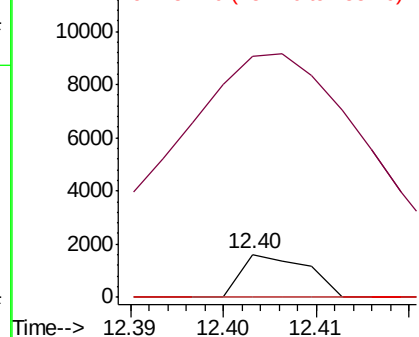
173 100

175 1671.0 23.5 70.6#

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: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057848.D

Acq: 10 Sep 2019 9:48

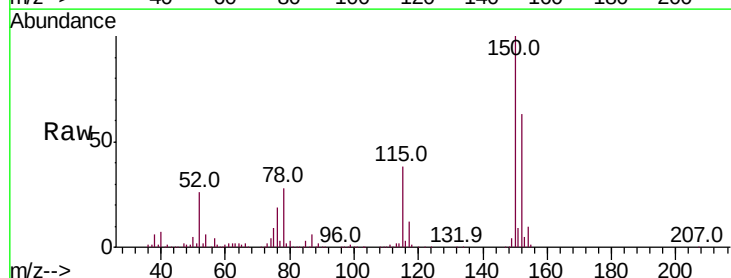
Tgt Ion:152 Resp: 227812

Ion Ratio Lower Upper

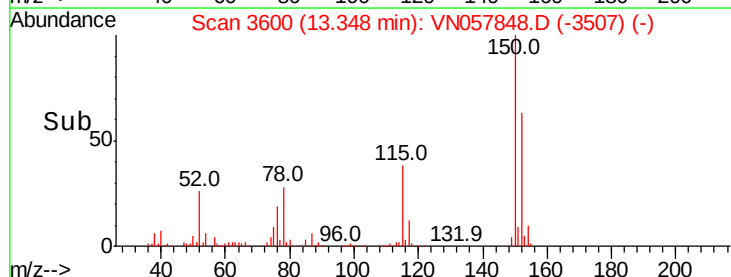
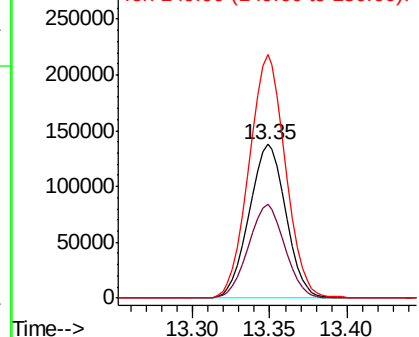
152 100

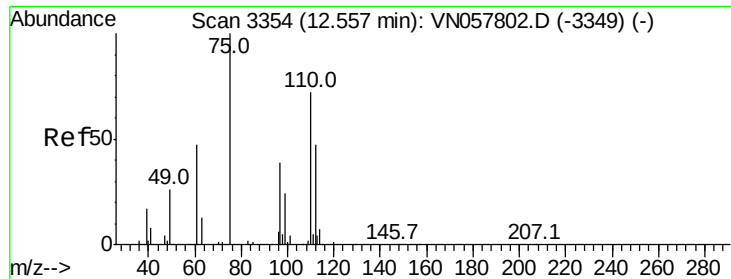
115 60.8 30.3 91.0

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





#76

1,2,3-Trichloropropane

Concen: 30.073 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057848.D

Acq: 10 Sep 2019 9:48

Instrument :

MSVOA_N

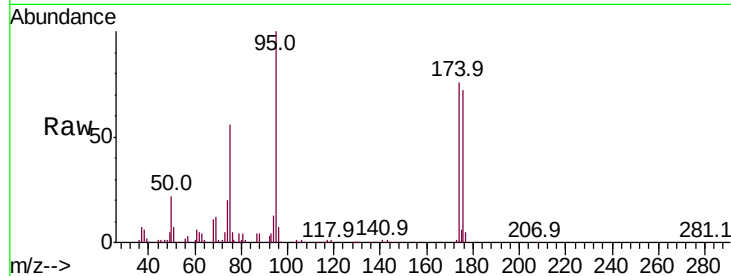
ClientSampled :

Tot Ion: 75 Resp: 154983

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

100000

80000

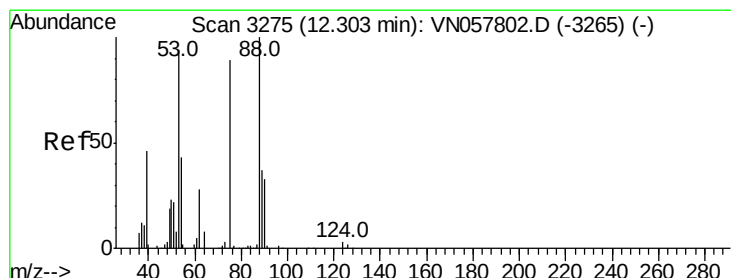
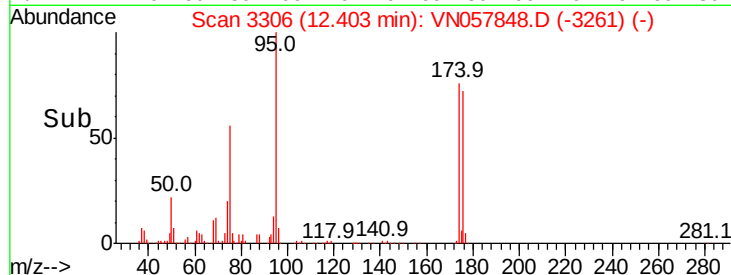
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 105.829 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057848.D

Acq: 10 Sep 2019 9:48

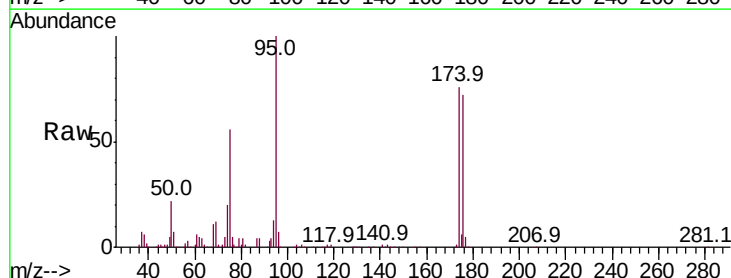
Tgt Ion: 75 Resp: 154983

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#



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

120000

100000

80000

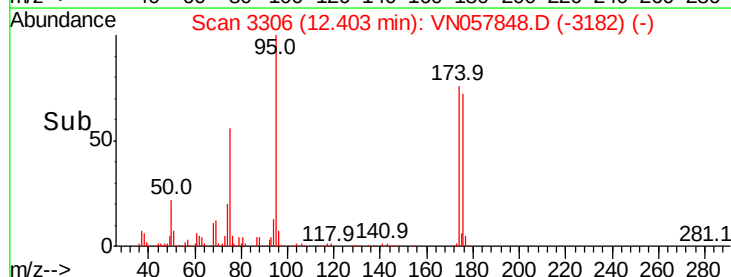
60000

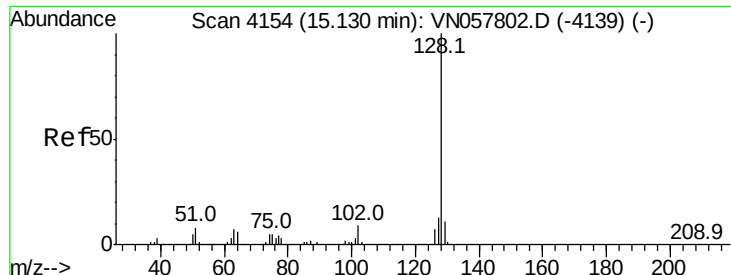
40000

20000

0

Time-->





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057848.D

Acq: 10 Sep 2019 9:48

Instrument :

MSVOA_N

ClientSampled :

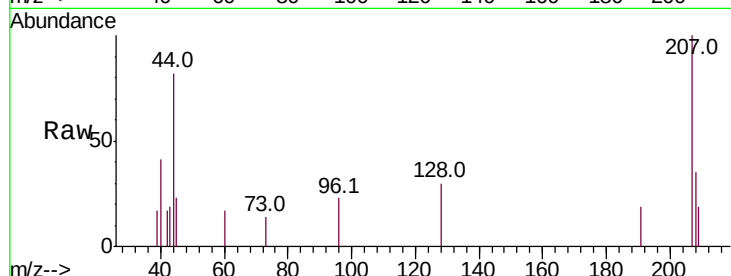
Tot Ion:128 Resp: 431

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

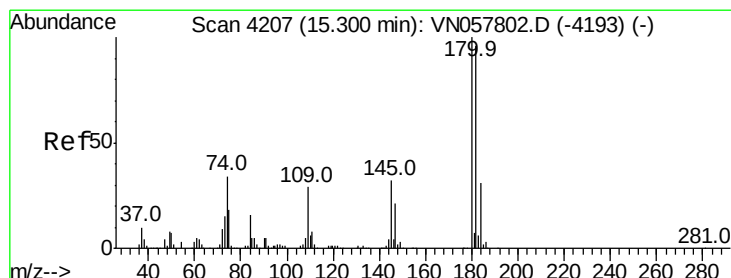
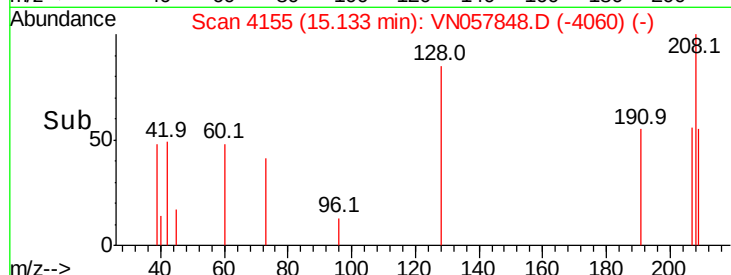
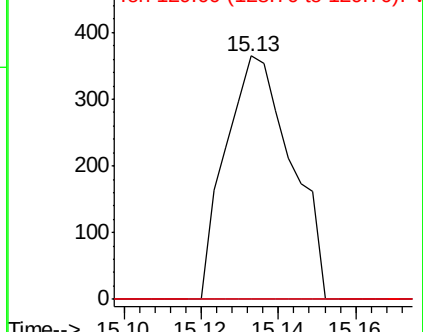
129 0.0 8.6 12.8#



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: 1.005 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN057848.D

Acq: 10 Sep 2019 9:48

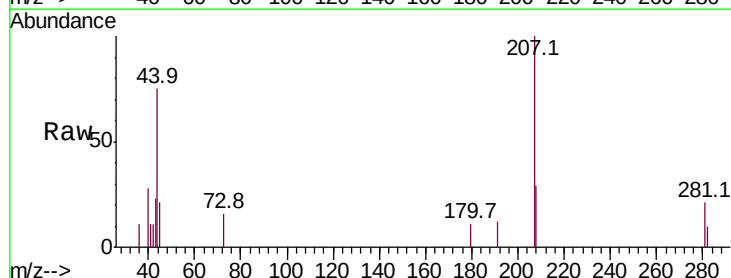
Tgt Ion:180 Resp: 33

Ion Ratio Lower Upper

180 100

182 93.9 48.3 144.8

145 0.0 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

