

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111119\
 Data File : VN059146.D
 Acq On : 11 Nov 2019 9:44
 Operator : JC/SP
 Sample : VN1111WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 12 00:39:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	529342	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	819671	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	709266	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	261542	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	340426	52.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.64%	
35) Dibromofluoromethane	7.57	113	256011	52.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.62%	
50) Toluene-d8	10.08	98	1023323	53.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.16%	
62) 4-Bromofluorobenzene	12.40	95	331603	47.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.42%	

Target Compounds

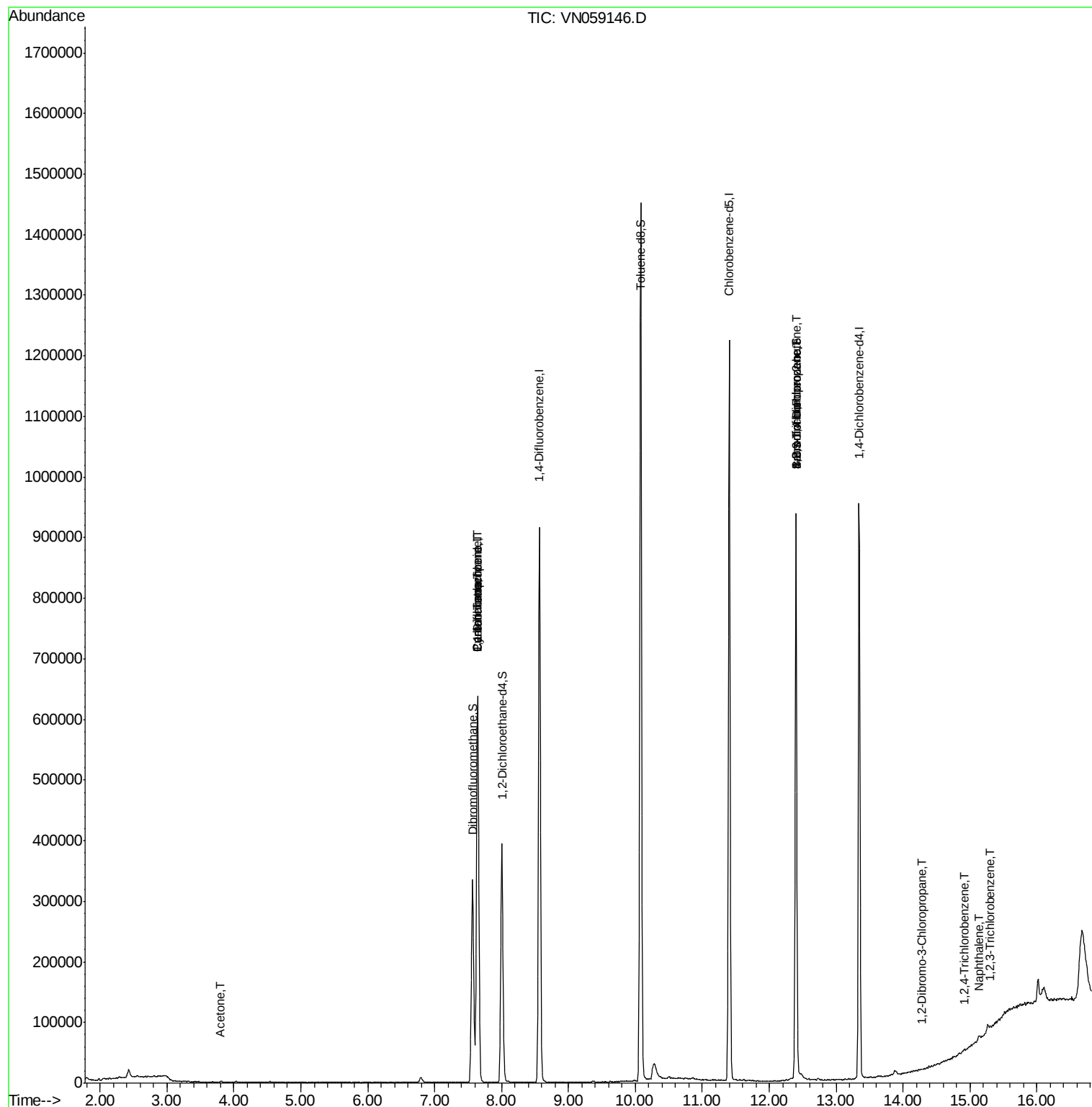
					Qvalue	
16) Acetone	3.81	43	973	0.288	ug/l #	44
31) Cyclohexane	7.64	56	10331	1.020	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	40275	5.257	ug/l #	50
38) Carbon Tetrachloride	7.64	117	50447	6.615	ug/l #	17
71) Bromoform	12.40	173	1377	0.341	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	164439	27.616	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	164439	72.942	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.27	75	326	0.278	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.91	180	886	3.217	ug/l #	22
95) Naphthalene	15.13	128	3312	3.274	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.30	180	1262	0.280	ug/l #	85

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059146.D

Acq: 11 Nov 2019 9:44

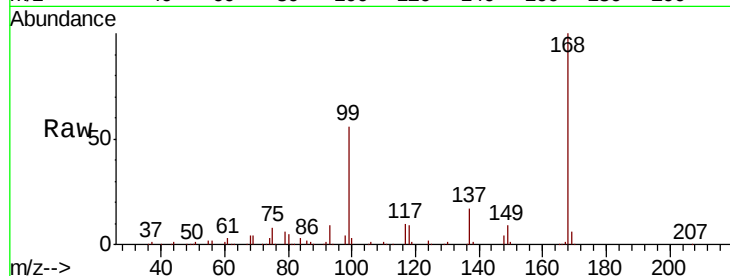
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 529342

Ion Ratio Lower Upper

168 100

99 56.2 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.64

250000

200000

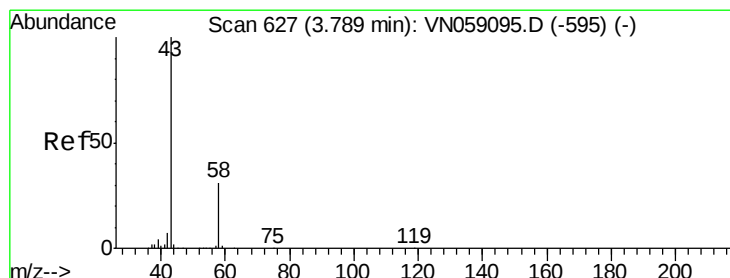
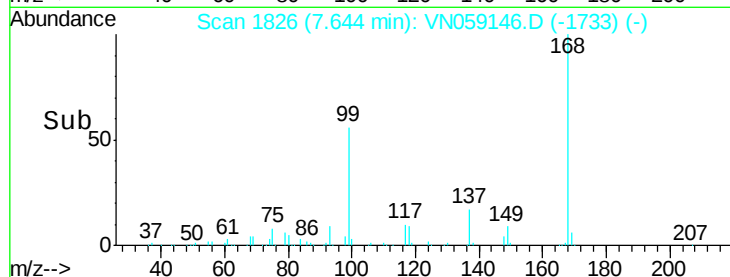
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 0.288 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.02 min

Lab File: VN059146.D

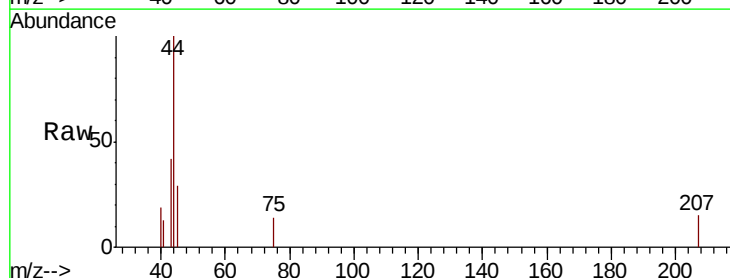
Acq: 11 Nov 2019 9:44

Tgt Ion: 43 Resp: 973

Ion Ratio Lower Upper

43 100

58 0.0 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.81

600

500

400

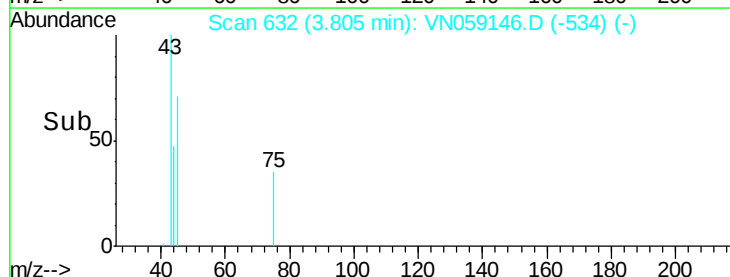
300

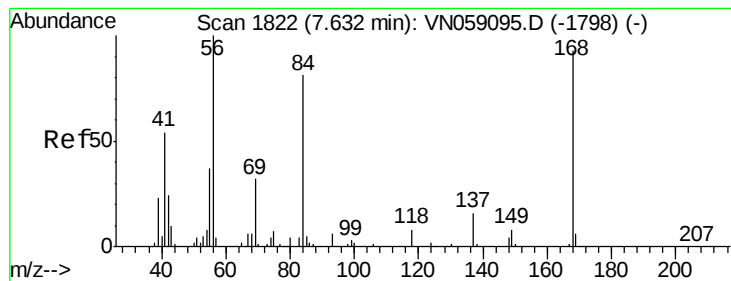
200

100

0

Time--> 3.76 3.78 3.80 3.82





#31

Cyclohexane

Concen: 1.020 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059146.D

Acq: 11 Nov 2019 9:44

Instrument :
MSVOA_N
ClientSampleId :

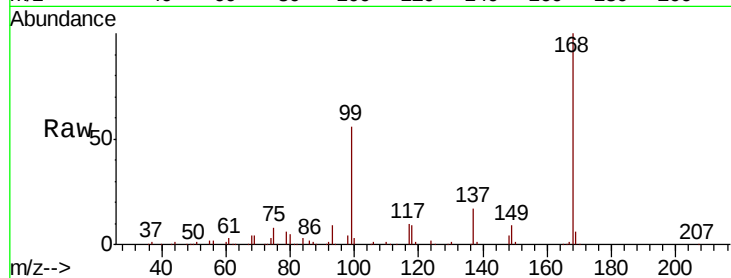
Tot Ion: 56 Resp: 10331

Ion Ratio Lower Upper

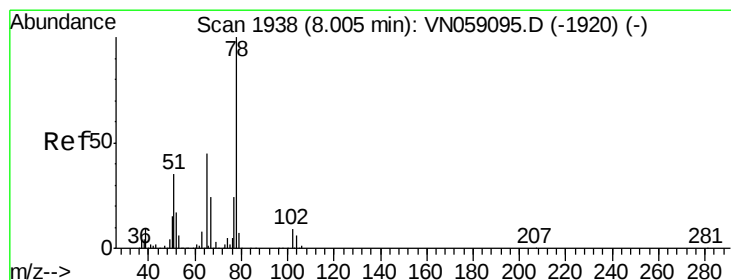
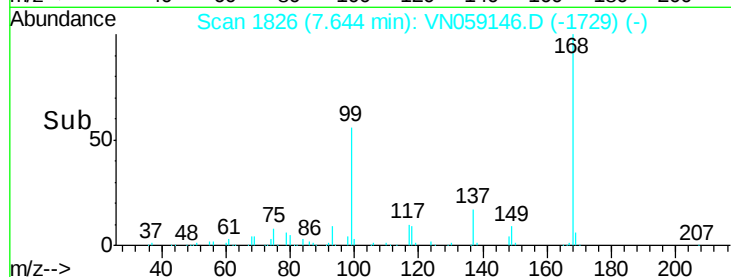
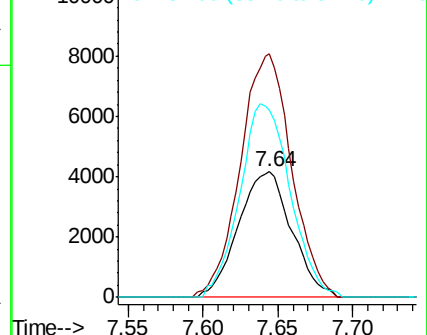
56 100

69 193.6 25.8 38.8#

84 148.5 65.0 97.4#



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: 52.317 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN059146.D

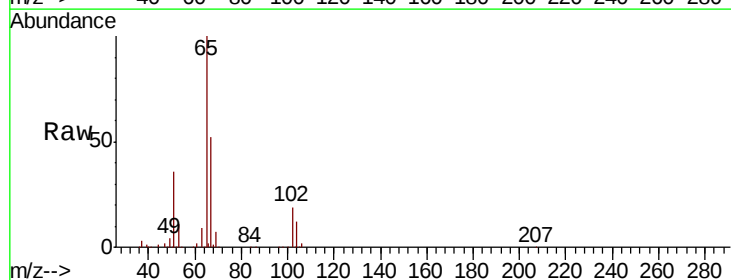
Acq: 11 Nov 2019 9:44

Tgt Ion: 65 Resp: 340426

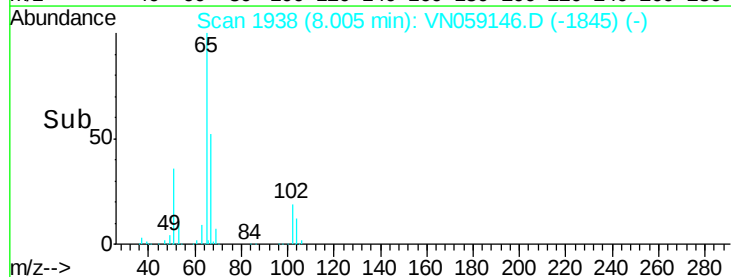
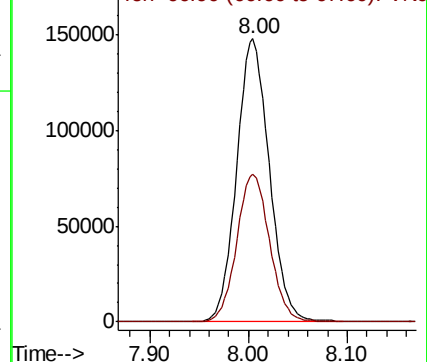
Ion Ratio Lower Upper

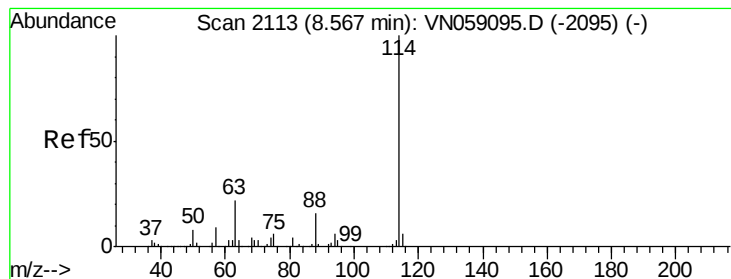
65 100

67 52.5 0.0 107.4



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: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN059146.D

Acq: 11 Nov 2019 9:44

Instrument :

MSVOA_N

ClientSampleId :

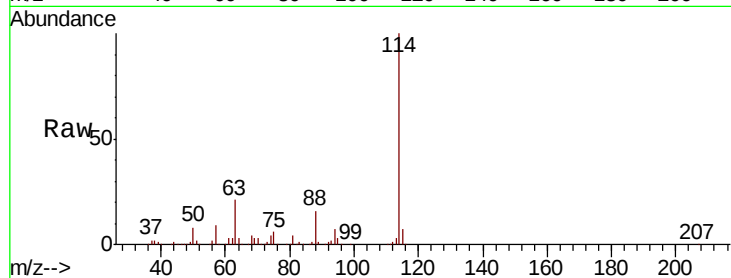
Tot Ion:114 Resp: 819671

Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.4

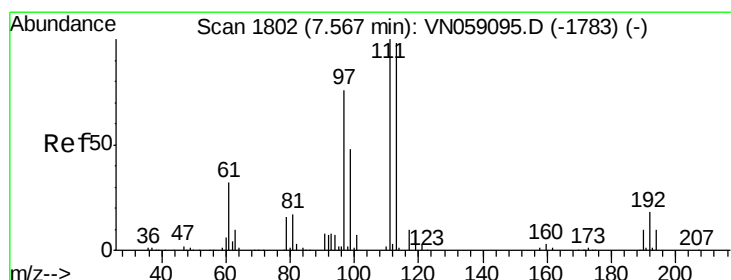
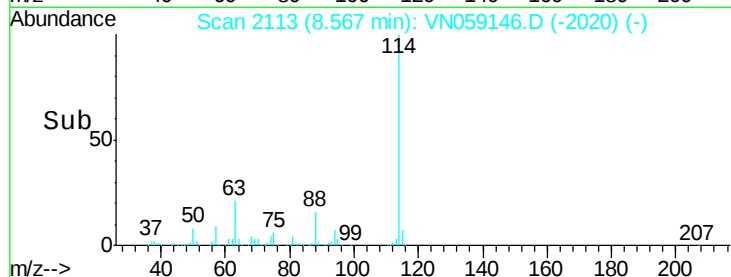
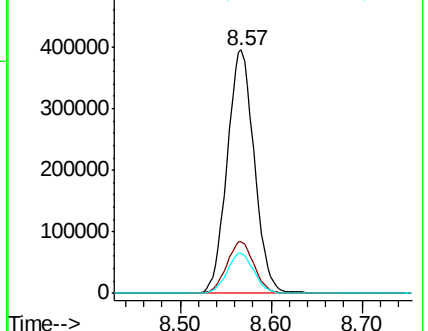
88 16.4 0.0 32.2



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: 52.309 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN059146.D

Acq: 11 Nov 2019 9:44

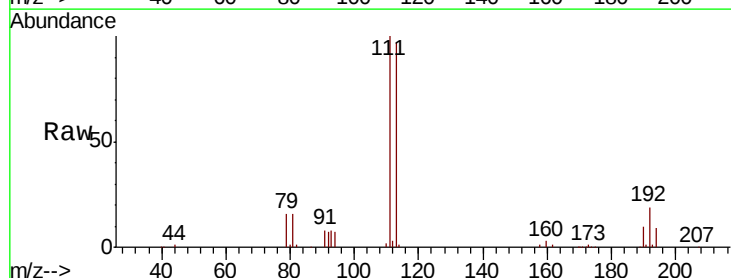
Tgt Ion:113 Resp: 256011

Ion Ratio Lower Upper

113 100

111 102.3 82.8 124.2

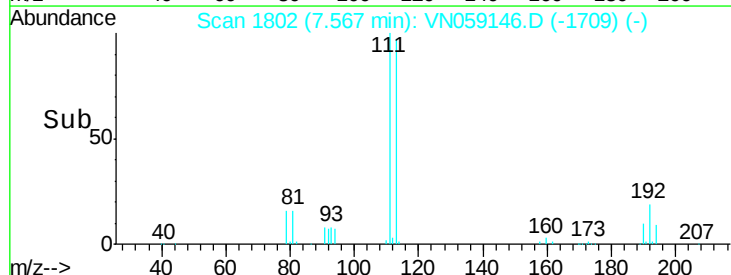
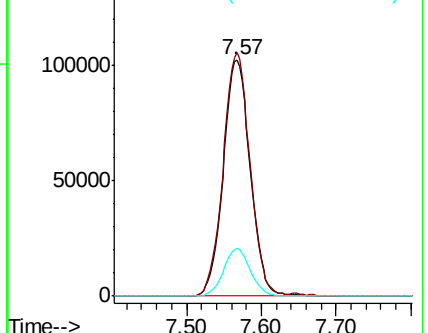
192 19.8 16.1 24.1

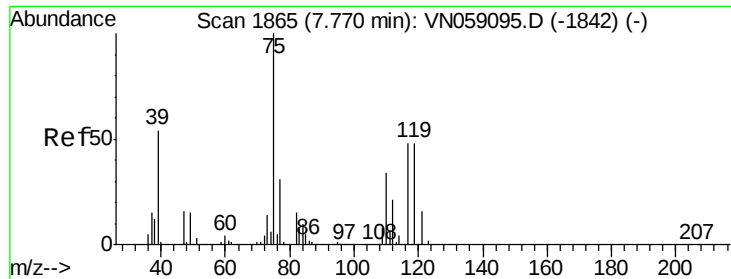


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

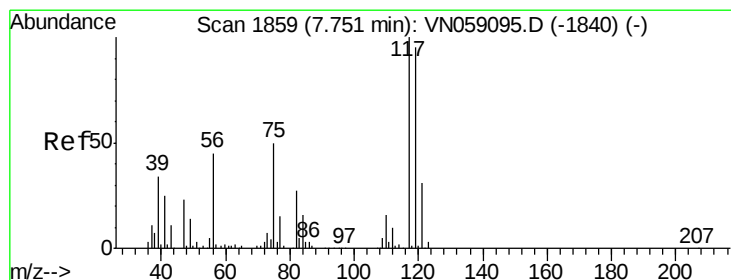
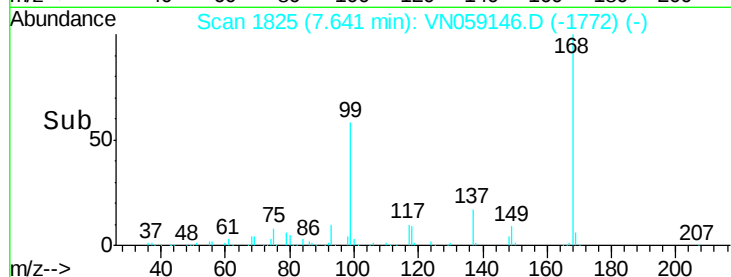
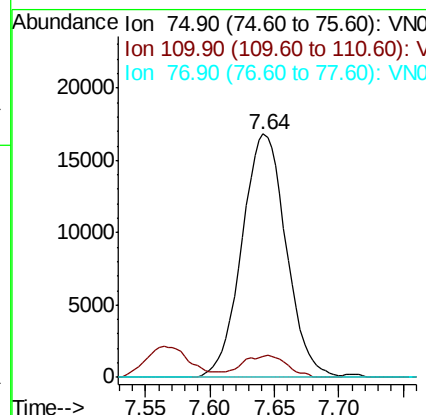
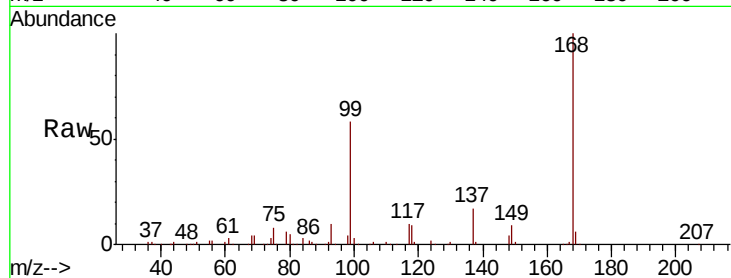




#36
 1,1-Dichloropropene
 Concen: 5.257 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059146.D
 Acq: 11 Nov 2019 9:44

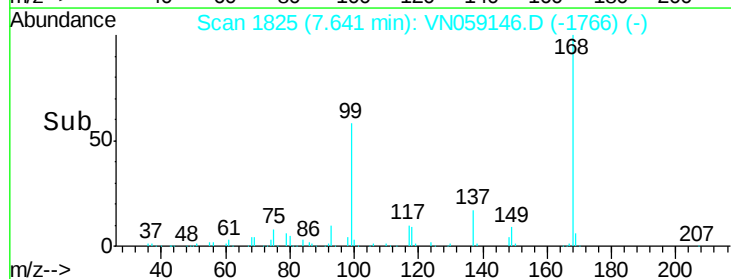
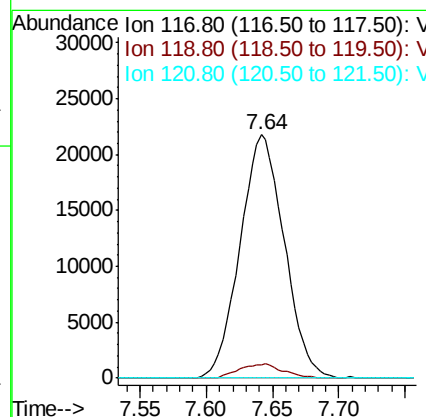
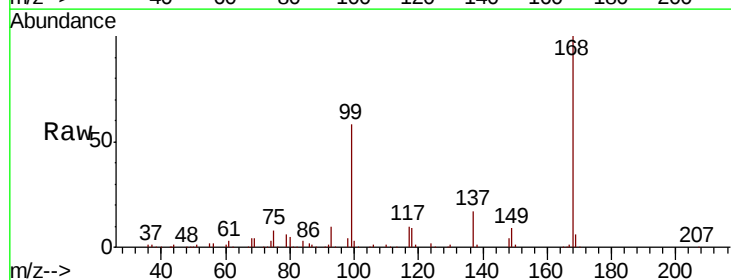
Instrument :
 MSVOA_N
 ClientSampled :

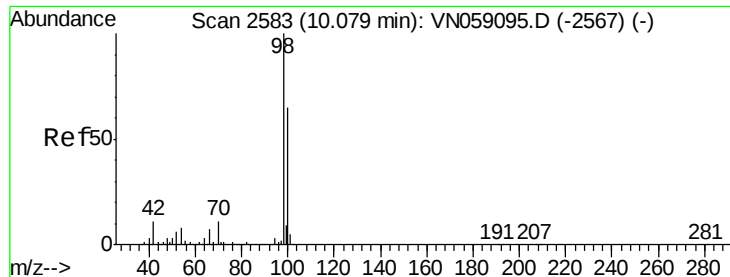
Tot Ion	75	Resp	40275
Ion Ratio	Lower	Upper	
75	100		
110	9.1	17.1	51.2#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.615 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059146.D
 Acq: 11 Nov 2019 9:44

Tgt Ion	117	Resp	50447
Ion Ratio	Lower	Upper	
117	100		
119	5.6	75.6	113.4#
121	0.0	24.6	36.8#





#50

Toluene-d8

Concen: 53.083 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059146.D

Acq: 11 Nov 2019 9:44

Instrument :

MSVOA_N

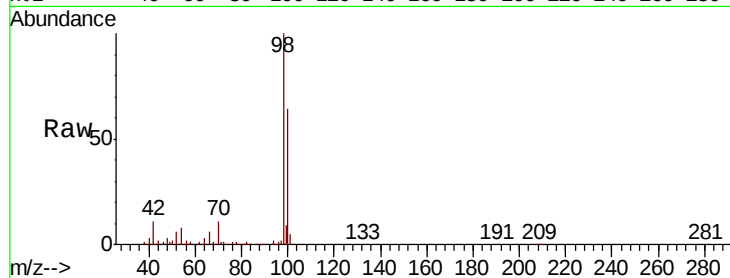
ClientSampleId :

Tot Ion: 98 Resp: 1023323

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

600000

500000

400000

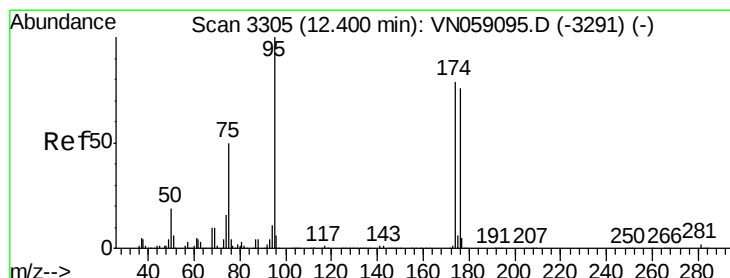
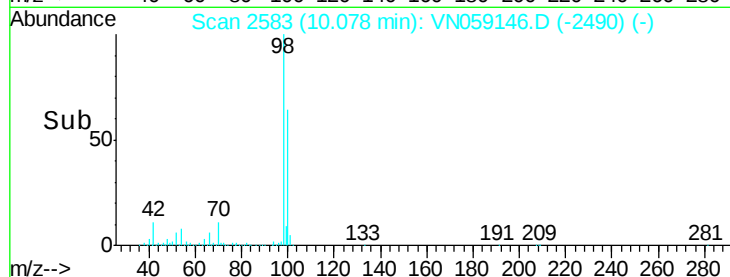
300000

200000

100000

0

Time--> 10.00 10.10



#62

4-Bromofluorobenzene

Concen: 47.706 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059146.D

Acq: 11 Nov 2019 9:44

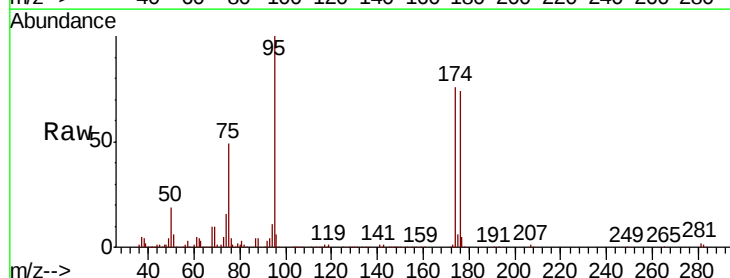
Tgt Ion: 95 Resp: 331603

Ion Ratio Lower Upper

95 100

174 77.1 0.0 158.2

176 74.7 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

250000

200000

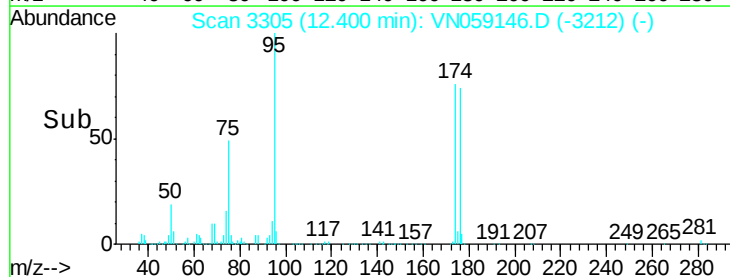
150000

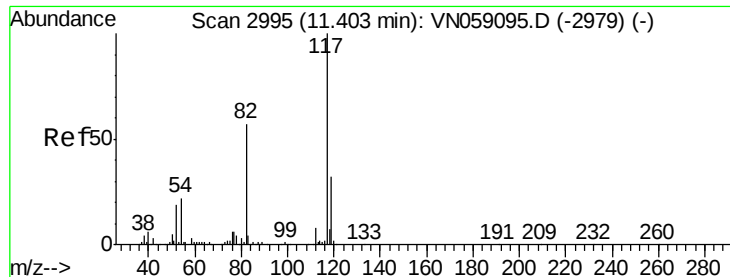
100000

50000

0

Time--> 12.30 12.40 12.50





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059146.D

Acq: 11 Nov 2019 9:44

Instrument :

MSVOA_N

ClientSampled :

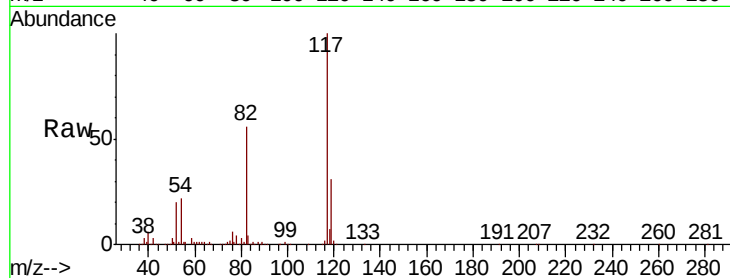
Tot Ion:117 Resp: 709266

Ion Ratio Lower Upper

117 100

82 55.8 45.8 68.8

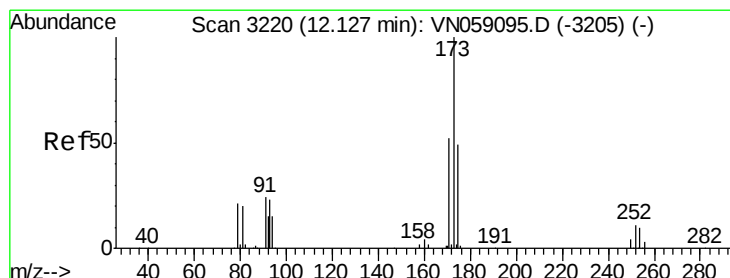
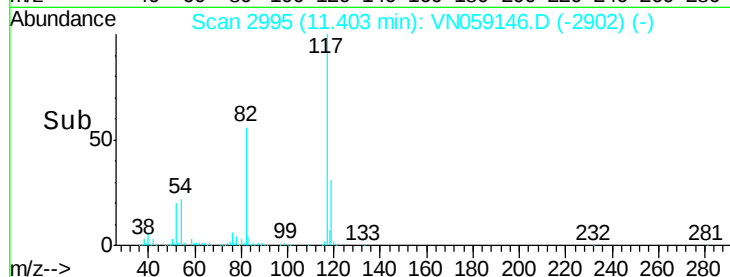
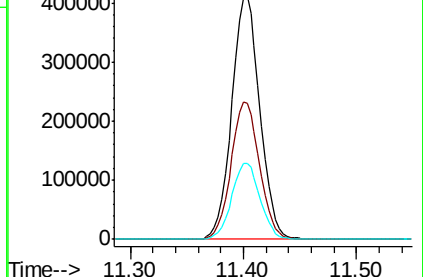
119 31.4 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.341 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN059146.D

Acq: 11 Nov 2019 9:44

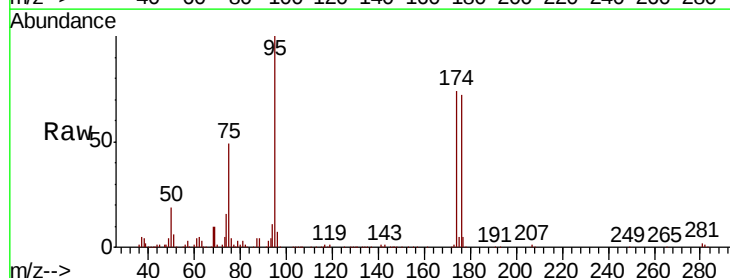
Tgt Ion:173 Resp: 1377

Ion Ratio Lower Upper

173 100

175 1229.8 24.2 72.6#

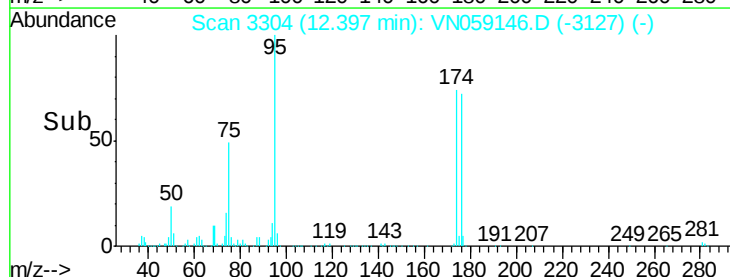
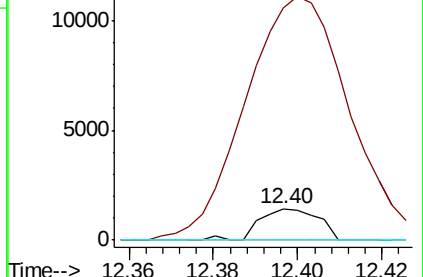
254 0.0 0.1 0.1#

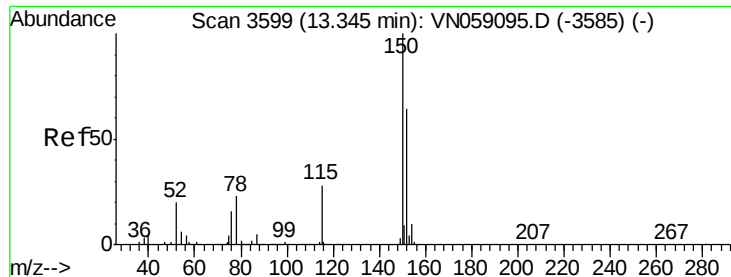


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3599

Delta R.T. -0.00 min

Lab File: VN059146.D

Acq: 11 Nov 2019 9:44

Instrument :

MSVOA_N

ClientSampleId :

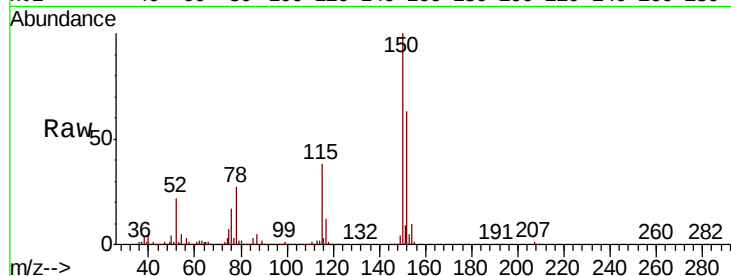
Tot Ion:152 Resp: 261542

Ion Ratio Lower Upper

152 100

115 61.0 29.4 88.2

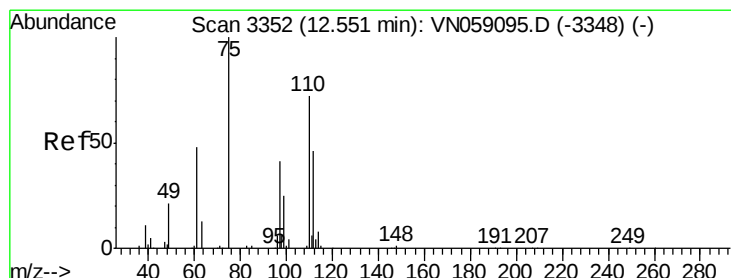
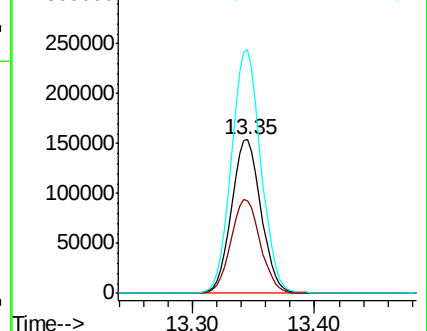
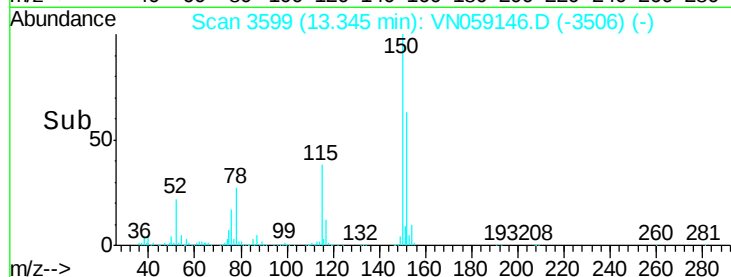
150 158.1 0.0 345.8



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



#76

1,2,3-Trichloropropane

Concen: 27.616 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059146.D

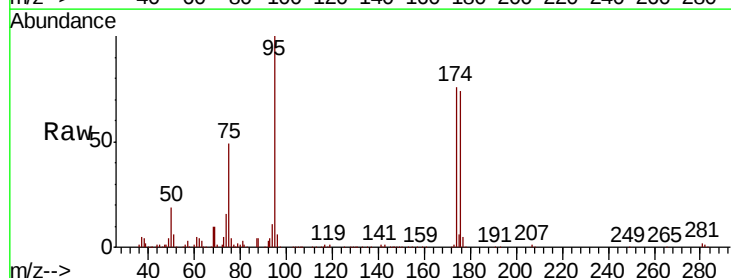
Acq: 11 Nov 2019 9:44

Tgt Ion: 75 Resp: 164439

Ion Ratio Lower Upper

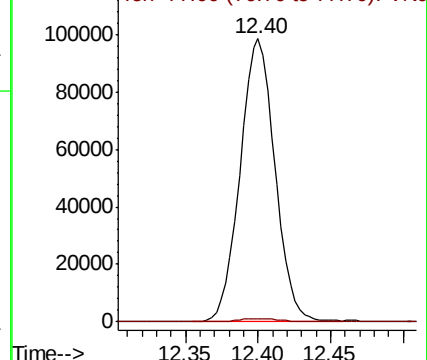
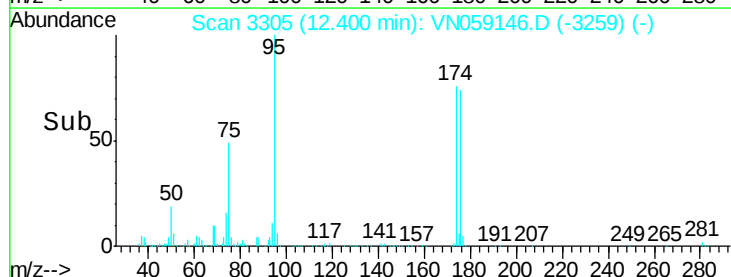
75 100

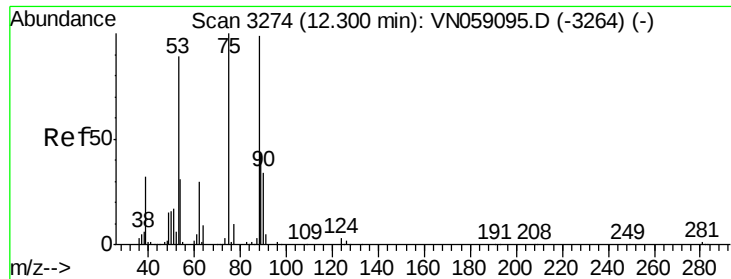
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 72.942 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059146.D

Acq: 11 Nov 2019 9:44

Instrument :

MSVOA_N

ClientSampled :

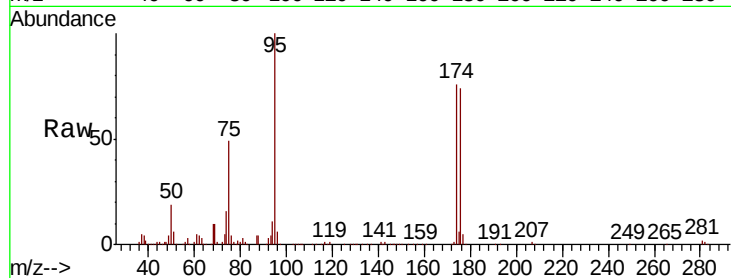
Tot Ion: 75 Resp: 164439

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

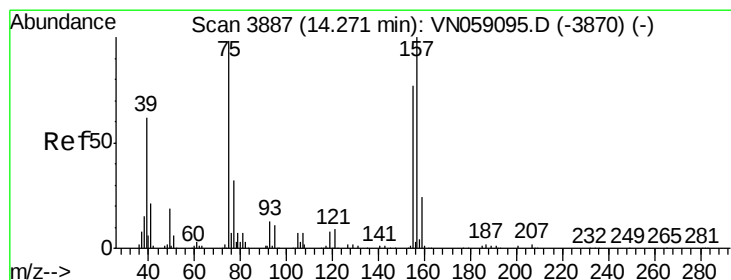
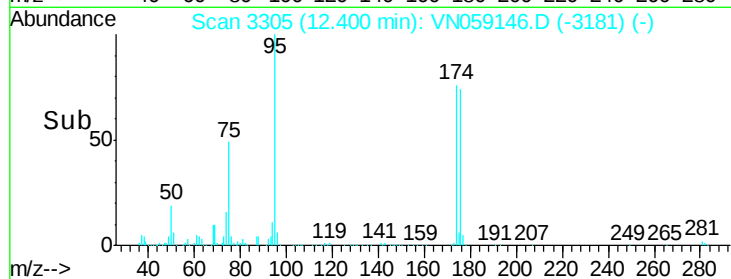
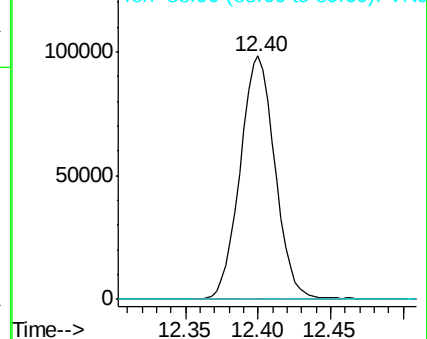
89 0.0 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.278 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN059146.D

Acq: 11 Nov 2019 9:44

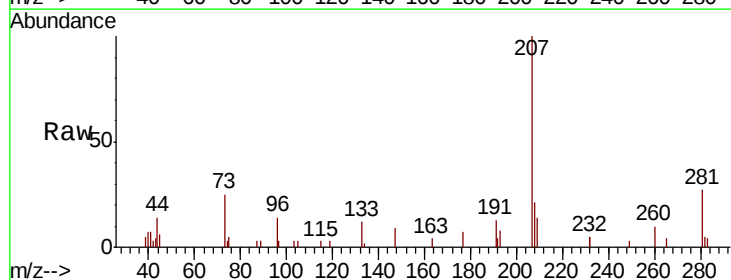
Tgt Ion: 75 Resp: 326

Ion Ratio Lower Upper

75 100

155 9.2 40.2 120.6#

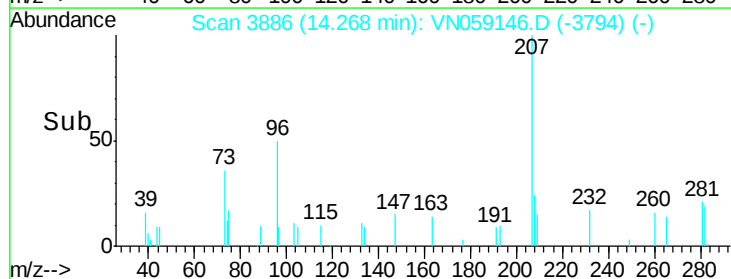
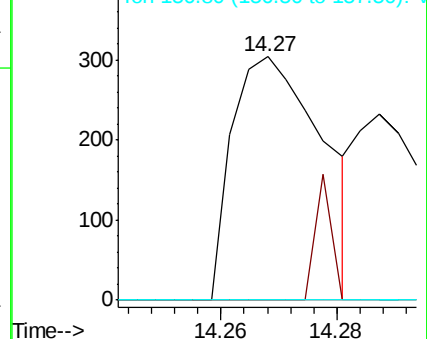
157 0.0 51.8 155.5#

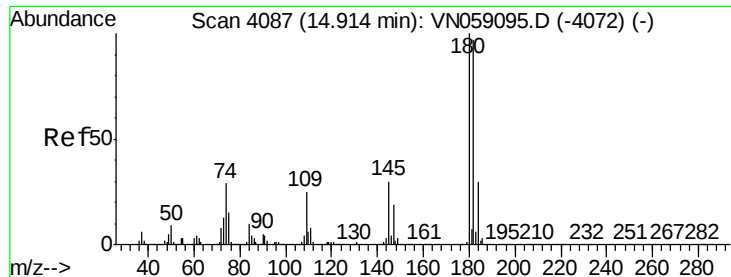


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

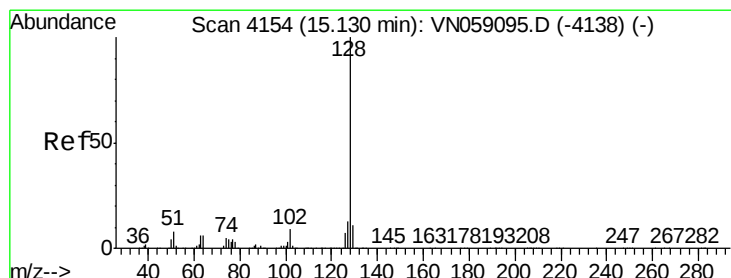
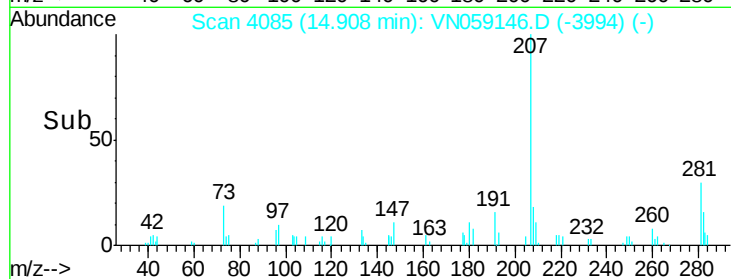
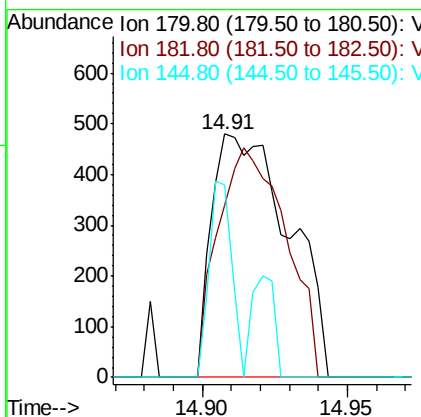
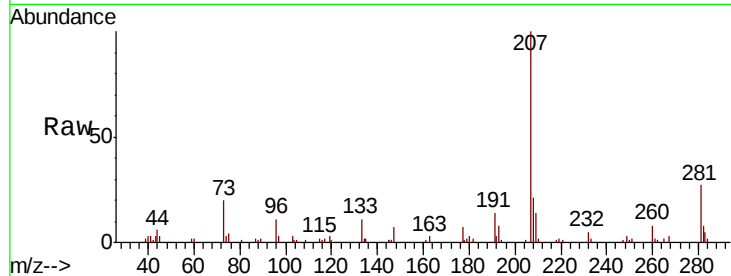




#93
 1,2,4-Trichlorobenzene
 Concen: 3.217 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.01 min
 Lab File: VN059146.D
 Acq: 11 Nov 2019 9:44

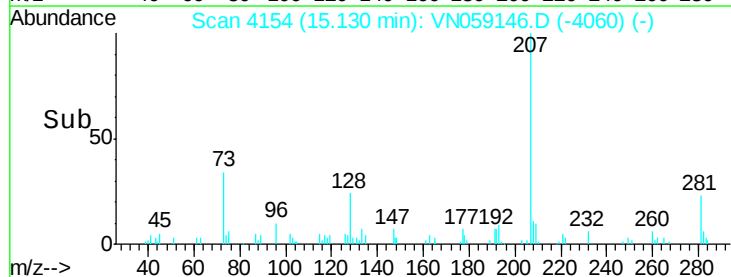
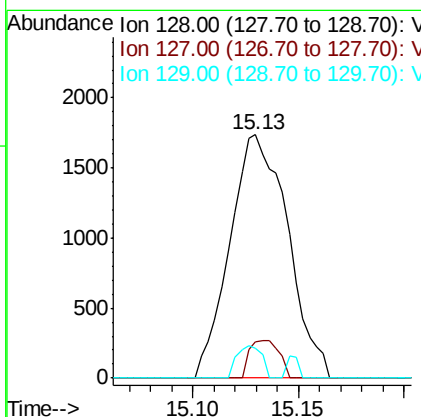
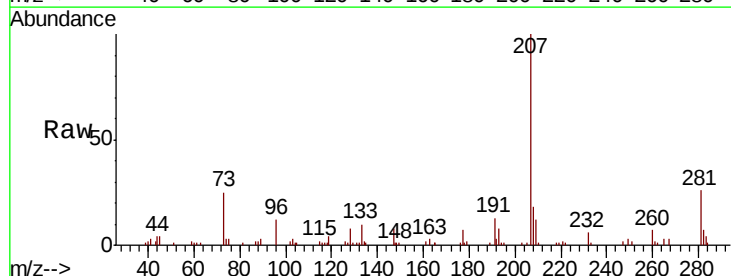
Instrument :
 MSVOA_N
 ClientSampleId :

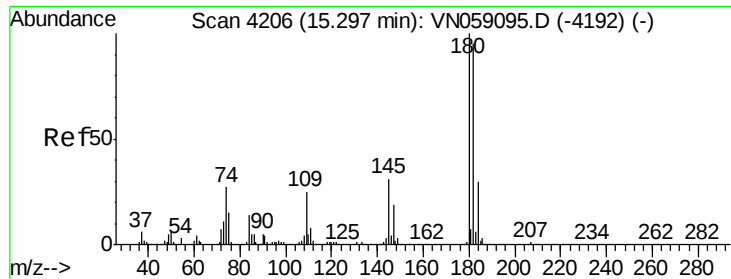
Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.1	144.3#
145	23.8	15.1	45.3



#95
 Naphthalene
 Concen: 3.274 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN059146.D
 Acq: 11 Nov 2019 9:44

Tgt Ion	Ratio	Lower	Upper
128	100		
127	8.0	10.2	15.2#
129	5.6	8.6	12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.280 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. 0.00 min
 Lab File: VN059146.D
 Acq: 11 Nov 2019 9:44

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.5	47.3	141.8
145	11.4	15.8	47.3#

