

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101419\
 Data File : VN058758.D
 Acq On : 14 Oct 2019 18:45
 Operator : JC/SP
 Sample : PB123940TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB123940TB

Quant Time: Oct 15 03:15:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	378507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	643825	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	575653	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	232602	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	308554	58.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.46%	
35) Dibromofluoromethane	7.57	113	212475	53.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.86%	
50) Toluene-d8	10.08	98	767680	48.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.54%	
62) 4-Bromofluorobenzene	12.40	95	259375	43.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.18%	

Target Compounds

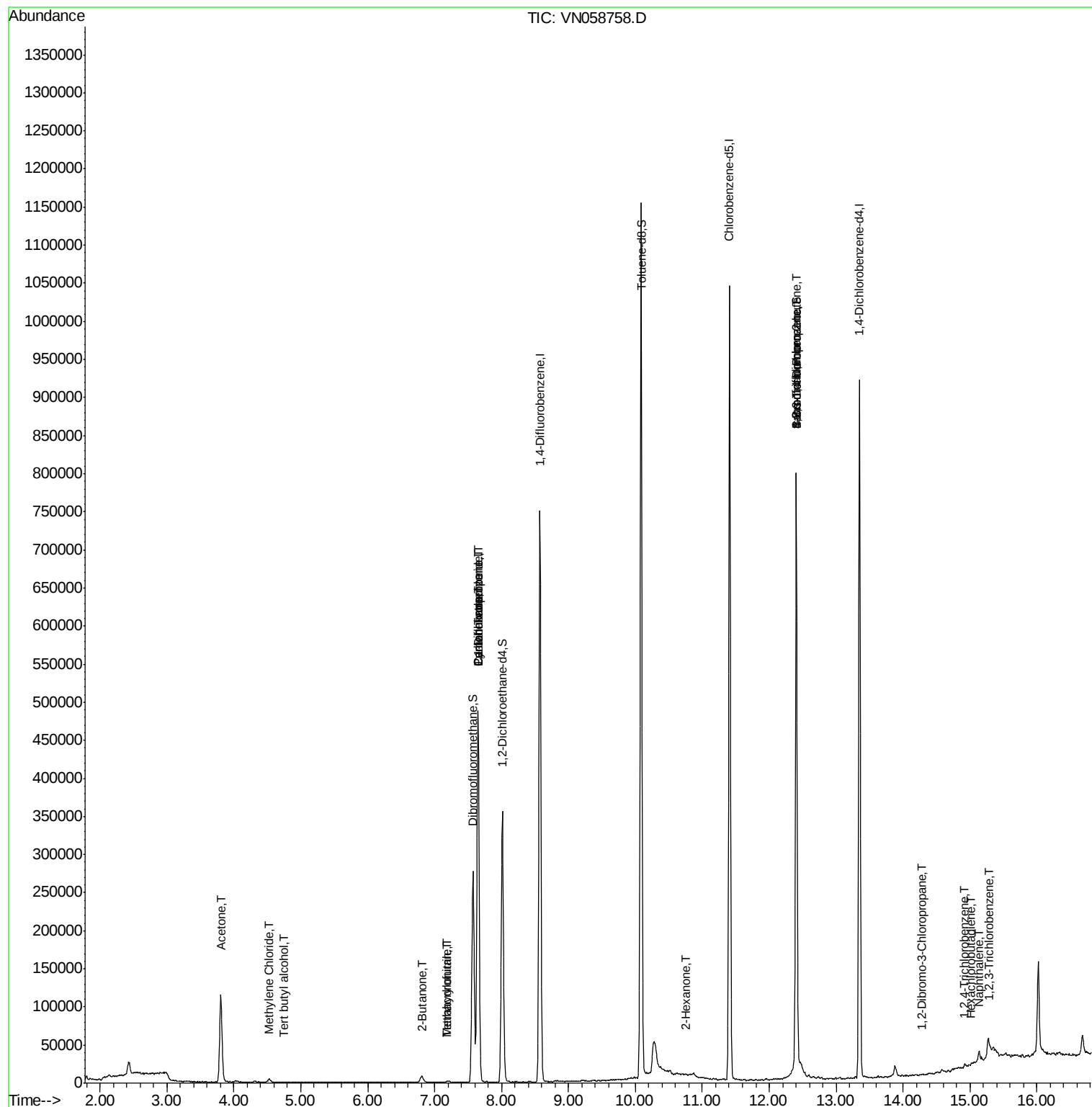
						Qvalue
11) Tert butyl alcohol	4.74	59	181	0.211	ug/l #	72
16) Acetone	3.80	43	6669	3.040	ug/l #	86
20) Methylene Chloride	4.54	84	2818	0.615	ug/l #	71
25) 2-Butanone	6.82	43	1149	0.362	ug/l	97
29) Tetrahydrofuran	7.20	42	666	0.325	ug/l #	48
31) Cyclohexane	7.65	56	9138	1.176	ug/l #	5
36) 1,1-Dichloropropene	7.65	75	32106	4.932	ug/l #	50
38) Carbon Tetrachloride	7.65	117	39455	6.219	ug/l #	17
41) Methacrylonitrile	7.20	41	817	0.265	ug/l #	1
59) 2-Hexanone	10.75	43	1543	0.317	ug/l	69
71) Bromoform	12.40	173	1865	0.589	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	140977	27.628	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	140977	74.006	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.27	75	782	0.603	ug/l #	14
93) 1,2,4-Trichlorobenzene	14.92	180	1797	0.400	ug/l	95
94) Hexachlorobutadiene	15.00	225	486	0.205	ug/l #	44
95) Naphthalene	15.13	128	8109	0.628	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.30	180	2315	0.528	ug/l	91

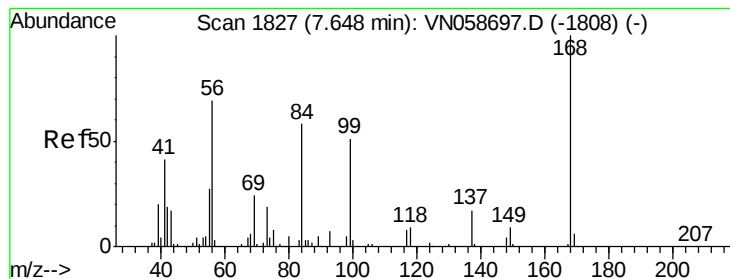
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Oct 12 00:00:30 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058758.D

Acq: 14 Oct 2019 18:45

Instrument :

MSVOA_N

ClientSampleId :

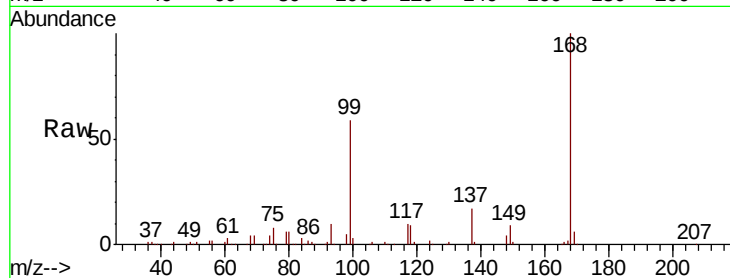
PB123940TB

Tot Ion:168 Resp: 378507

Ion Ratio Lower Upper

168 100

99 58.6 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): VN058697.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN058697.D (-1808) (-)

7.65

150000

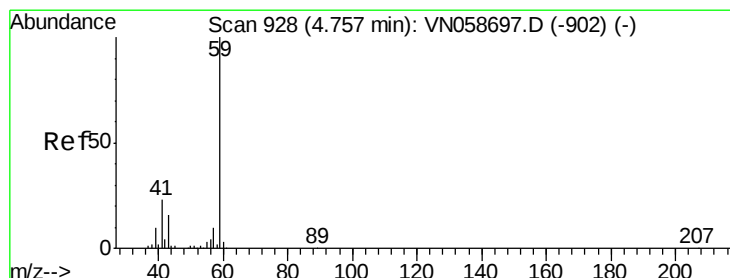
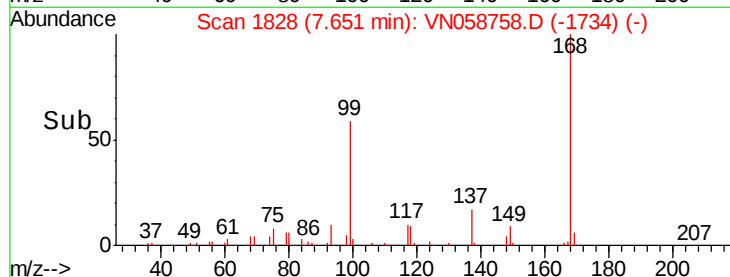
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.211 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.02 min

Lab File: VN058758.D

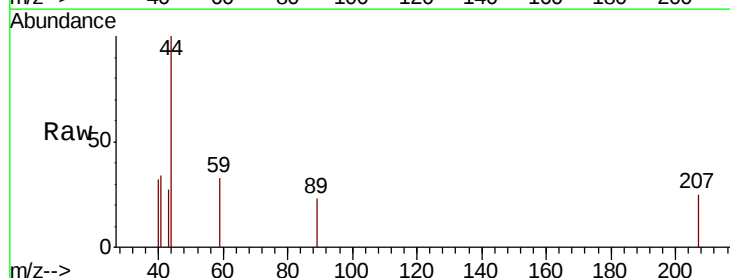
Acq: 14 Oct 2019 18:45

Tgt Ion: 59 Resp: 181

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN058697.D (-902) (-)

Ion 57.00 (56.70 to 57.70): VN058697.D (-902) (-)

4.74

250

200

150

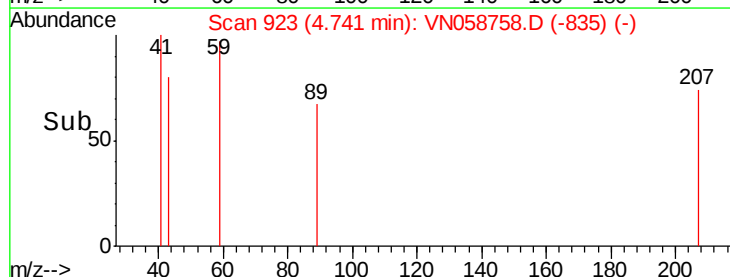
100

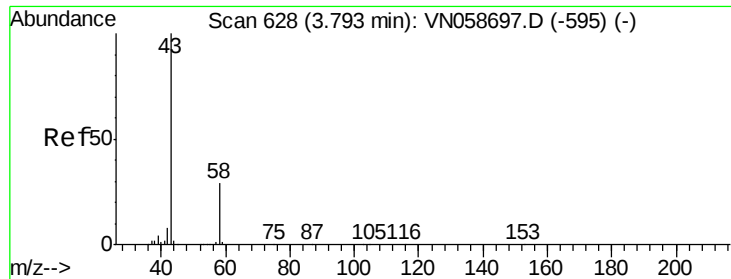
50

0

4.72 4.73 4.74 4.75 4.76

Time-->

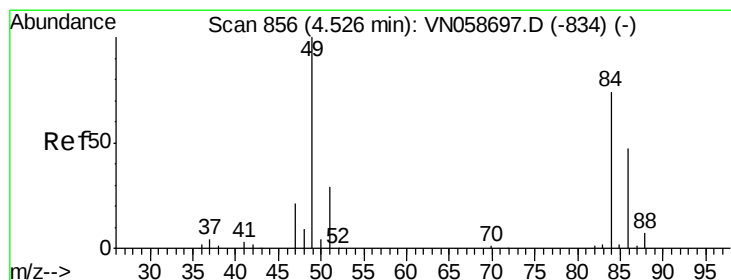
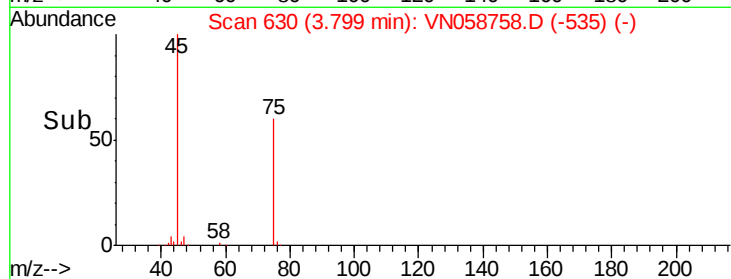
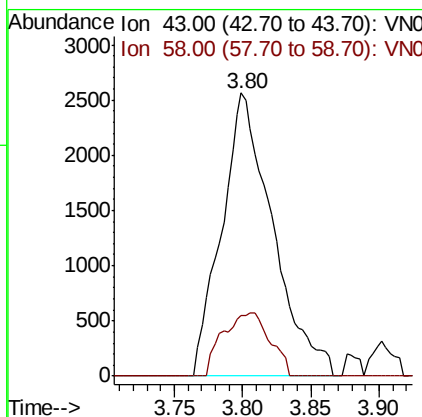
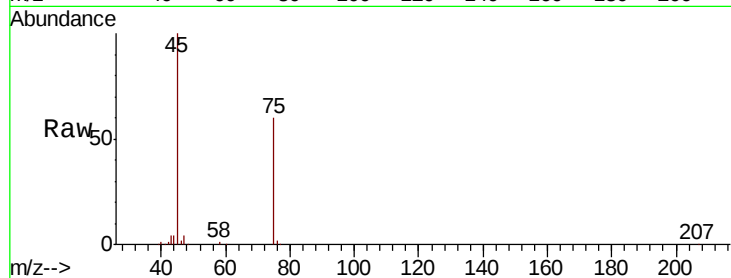




#16
Acetone
Concen: 3.040 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.01 min
Lab File: VN058758.D
Acq: 14 Oct 2019 18:45

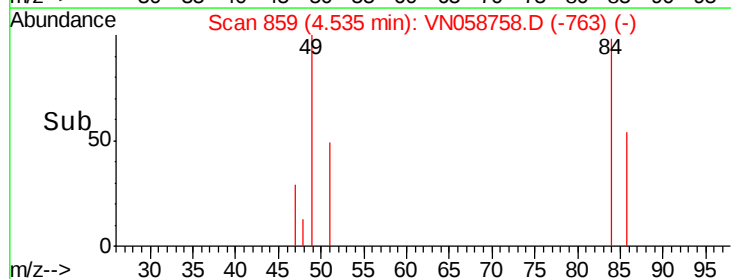
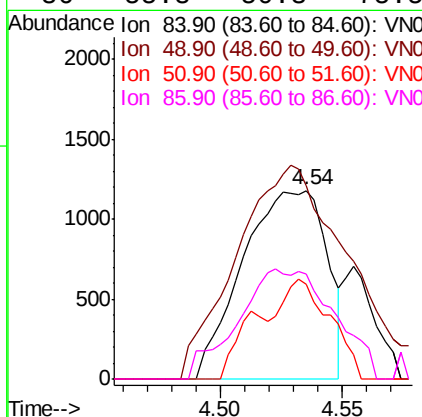
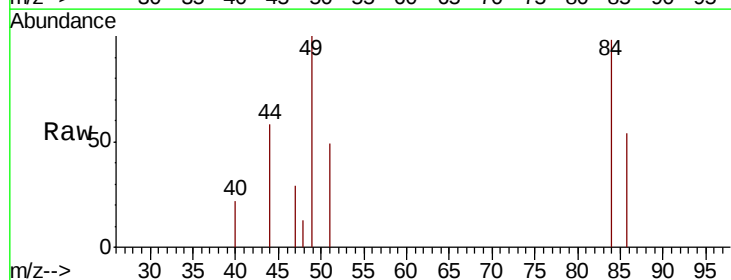
Instrument :
MSVOA_N
ClientSampleId :
PB123940TB

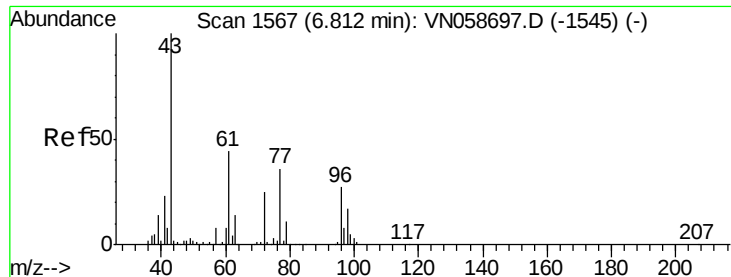
Tot Ion: 43 Resp: 6669
Ion Ratio Lower Upper
43 100
58 21.4 23.3 34.9#



#20
Methylene Chloride
Concen: 0.615 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN058758.D
Acq: 14 Oct 2019 18:45

Tgt Ion: 84 Resp: 2818
Ion Ratio Lower Upper
84 100
49 84.8 107.6 161.4#
51 50.3 31.4 47.0#
86 55.8 50.3 75.5





#25

2-Butanone

Concen: 0.362 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN058758.D

Acq: 14 Oct 2019 18:45

Instrument :

MSVOA_N

ClientSampleId :

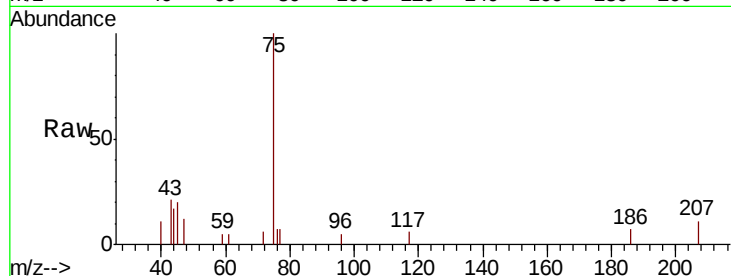
PB123940TB

Tot Ion: 43 Resp: 1149

Ion Ratio Lower Upper

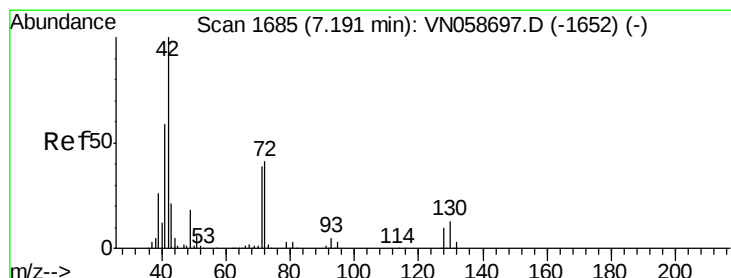
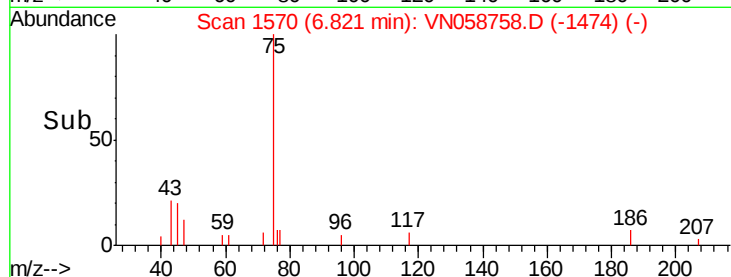
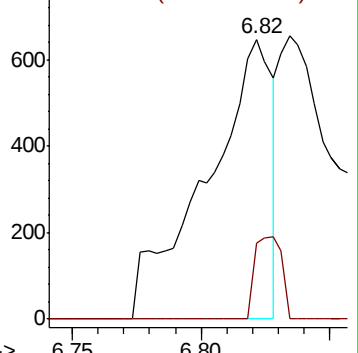
43 100

72 26.9 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.325 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.01 min

Lab File: VN058758.D

Acq: 14 Oct 2019 18:45

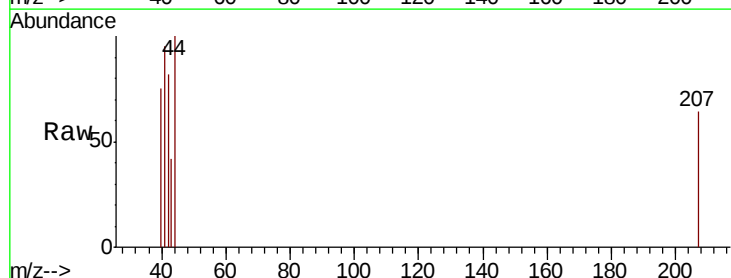
Tgt Ion: 42 Resp: 666

Ion Ratio Lower Upper

42 100

72 15.2 32.8 49.2#

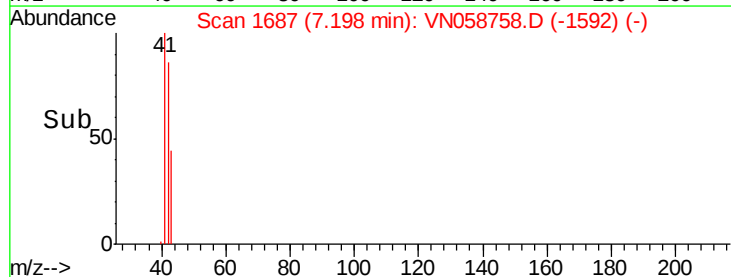
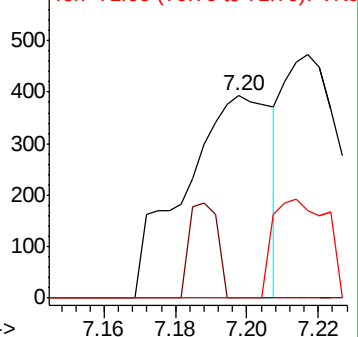
71 0.0 31.1 46.7#

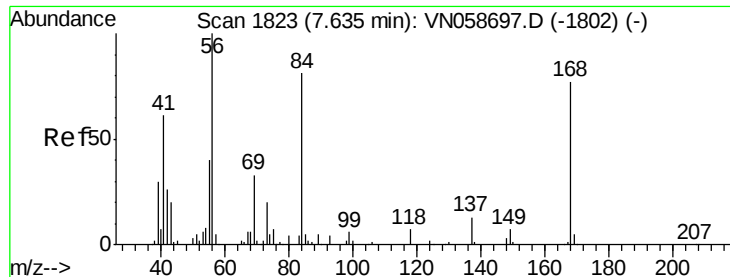


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

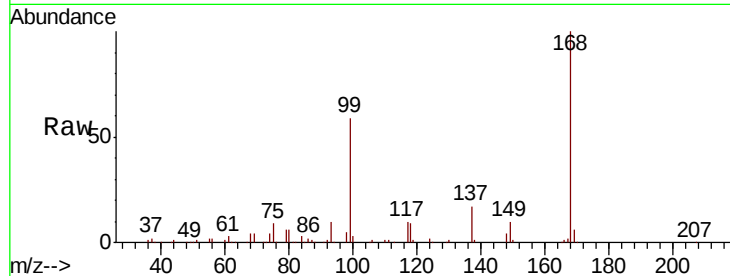




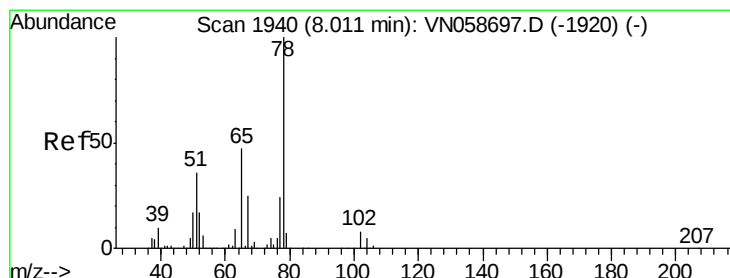
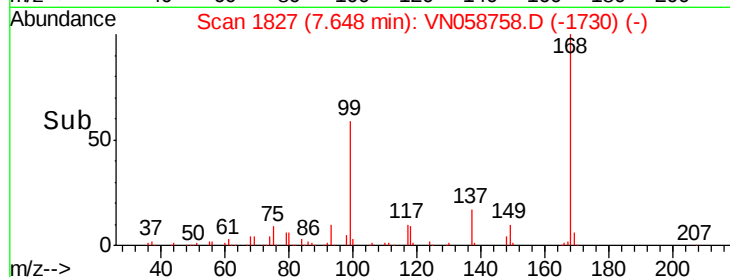
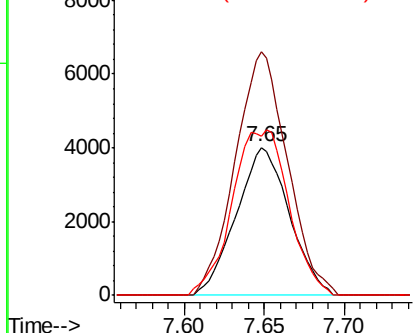
#31
Cyclohexane
Concen: 1.176 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058758.D
Acq: 14 Oct 2019 18:45

Instrument :
MSVOA_N
ClientSampleId :
PB123940TB

Tot Ion: 56 Resp: 9138
Ion Ratio Lower Upper
56 100
69 164.7 26.2 39.4#
84 115.3 64.9 97.3#

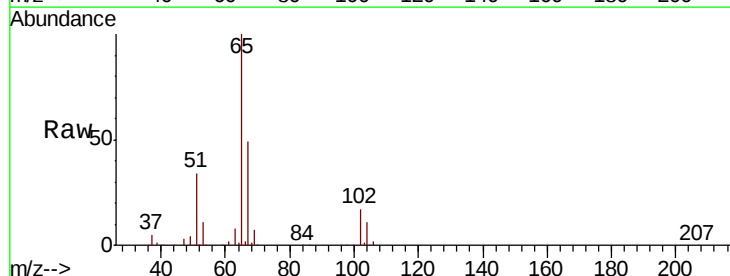


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

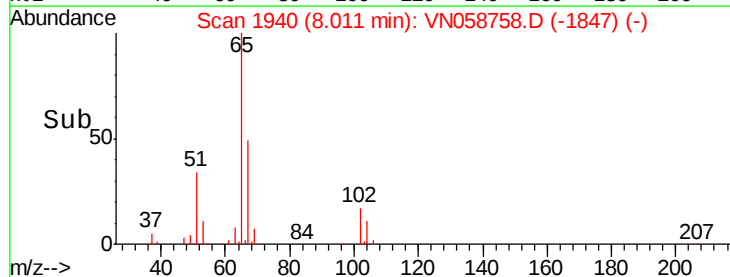
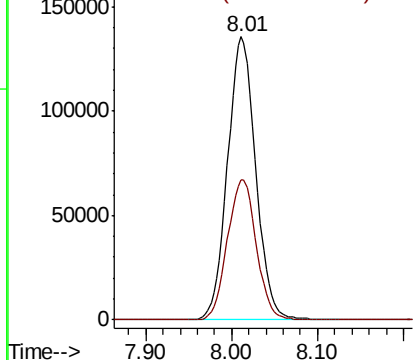


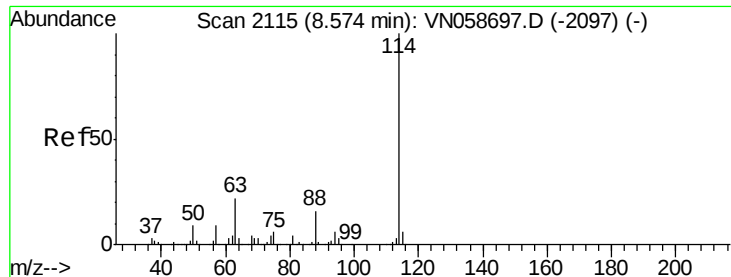
#33
1,2-Dichloroethane-d4
Concen: 58.228 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. 0.00 min
Lab File: VN058758.D
Acq: 14 Oct 2019 18:45

Tgt Ion: 65 Resp: 308554
Ion Ratio Lower Upper
65 100
67 50.7 0.0 103.8



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

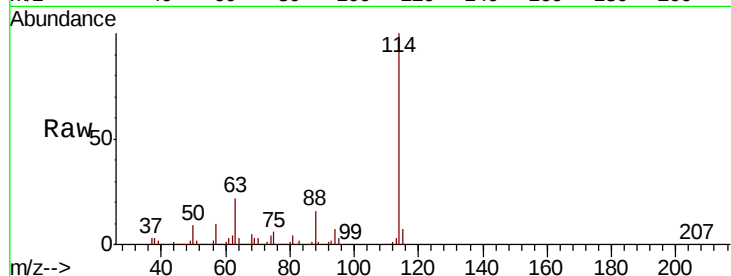




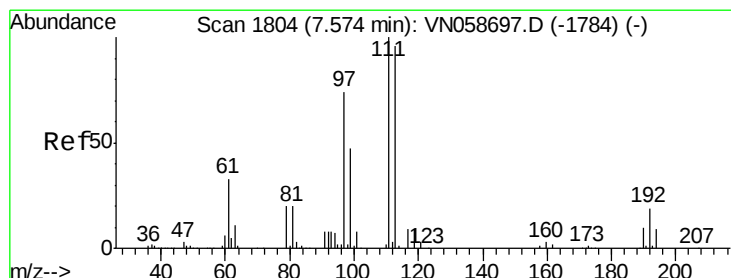
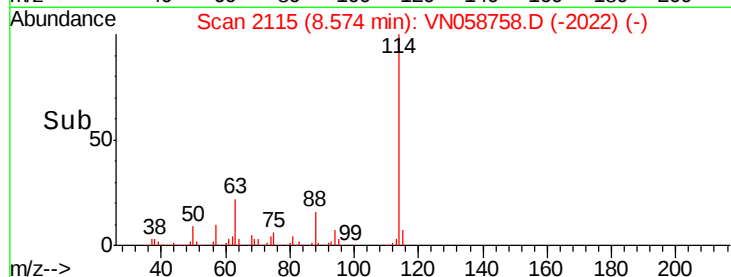
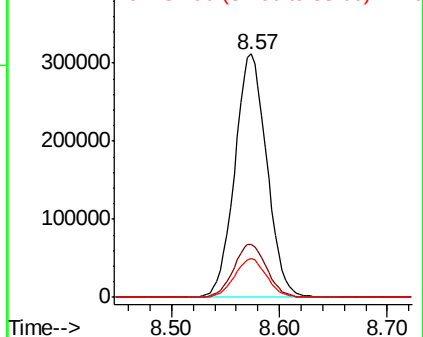
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058758.D
 Acq: 14 Oct 2019 18:45

Instrument :
 MSVOA_N
 ClientSampleId :
 PB123940TB

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	43.8
88	16.1	0.0	32.0

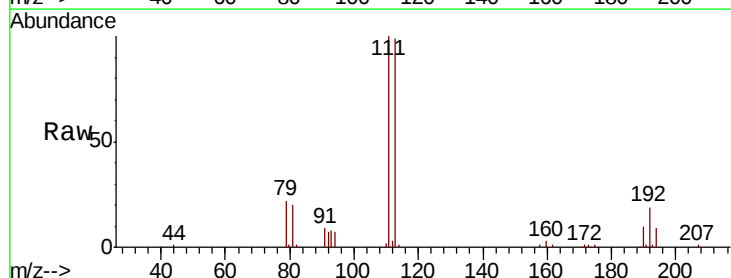


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

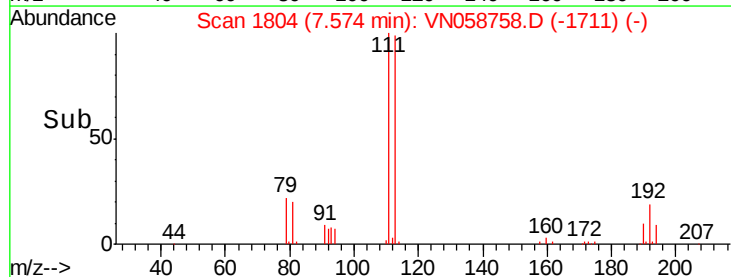
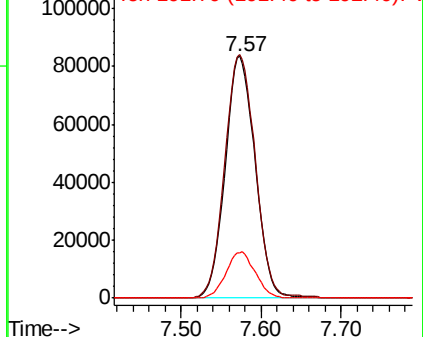


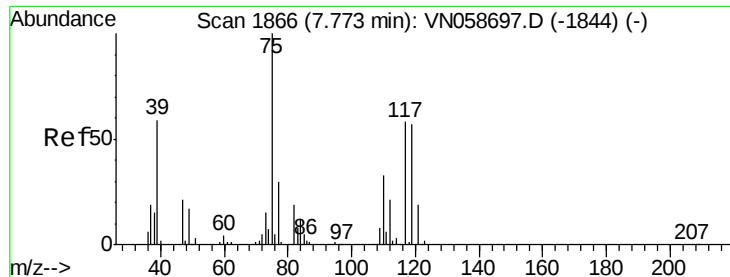
#35
 Dibromofluoromethane
 Concen: 53.429 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058758.D
 Acq: 14 Oct 2019 18:45

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.3	123.5
192	18.7	15.0	22.6



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

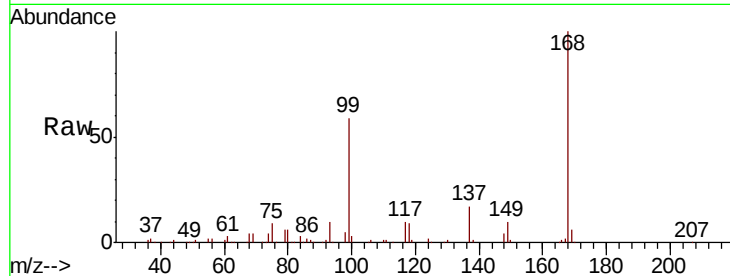




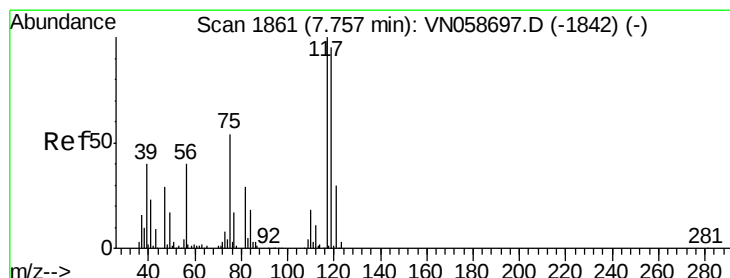
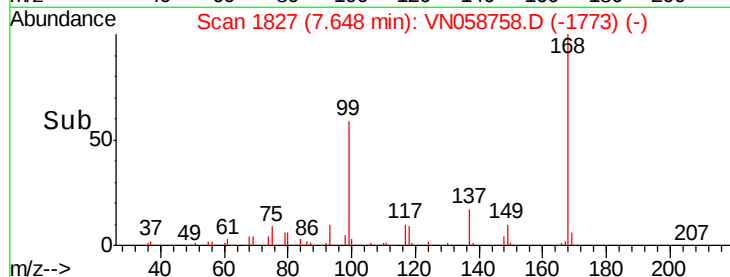
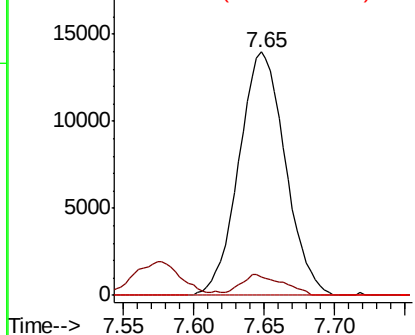
#36
 1,1-Dichloropropene
 Concen: 4.932 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058758.D
 Acq: 14 Oct 2019 18:45

Instrument :
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 PB123940TB

Tot Ion	75	Resp	32106
Ion Ratio	Lower	Upper	
75	100		
110	7.8	16.6	49.8#
77	0.0	24.6	37.0#

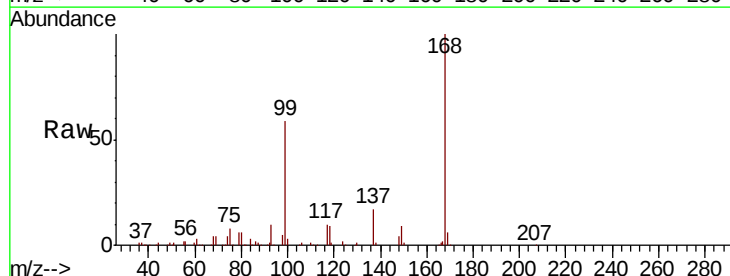


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

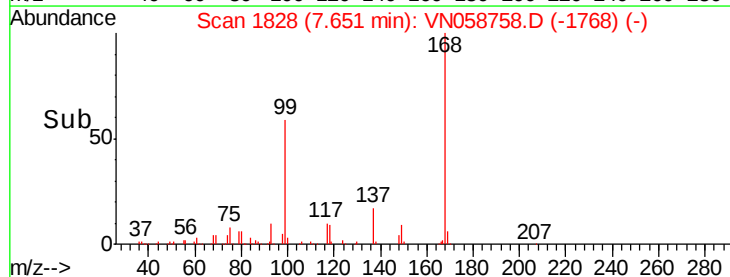
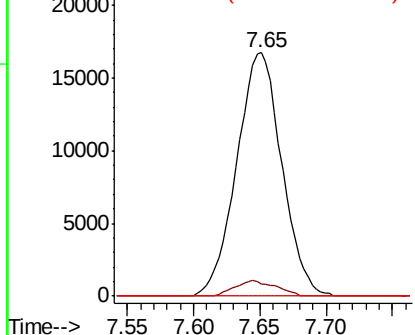


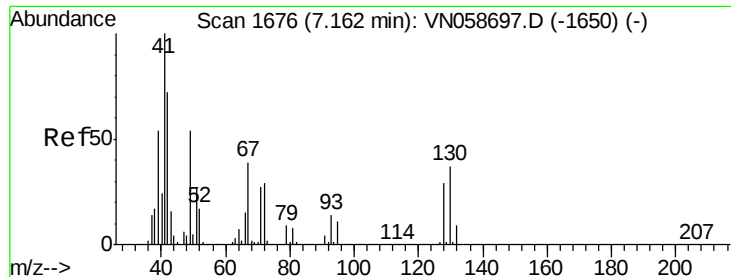
#38
 Carbon Tetrachloride
 Concen: 6.219 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058758.D
 Acq: 14 Oct 2019 18:45

Tgt Ion	117	Resp	39455
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	5.1	75.7	113.5#
121	0.0	23.9	35.9#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

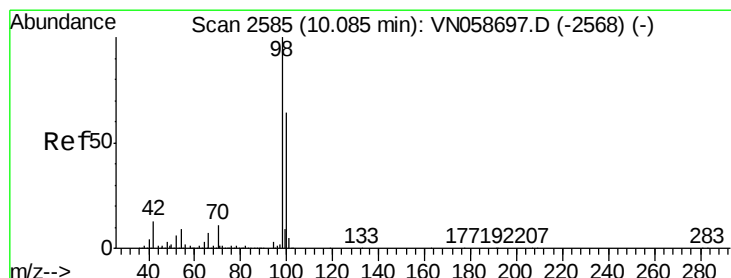
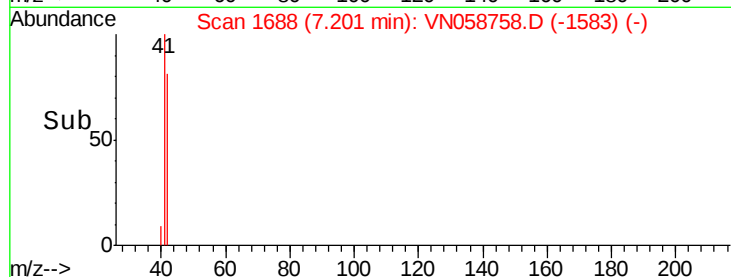
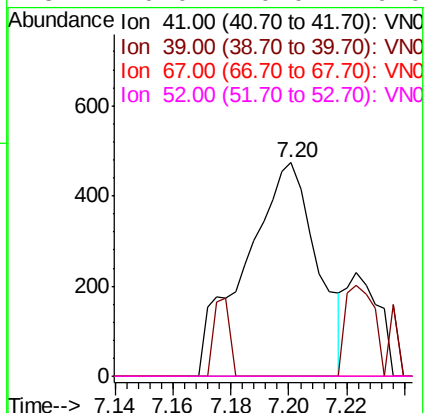
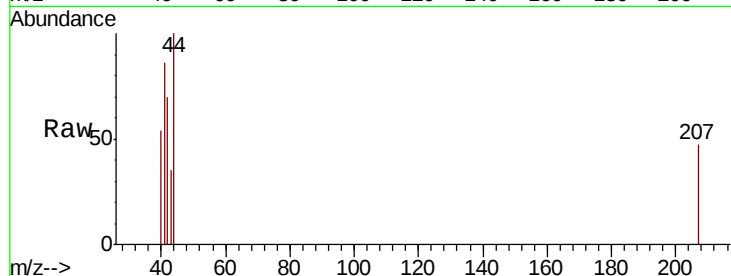




#41
Methacrylonitrile
Concen: 0.265 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.04 min
Lab File: VN058758.D
Acq: 14 Oct 2019 18:45

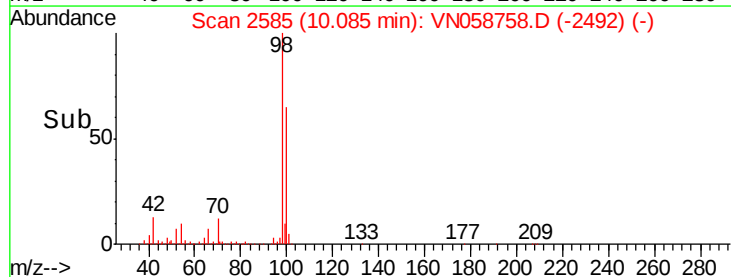
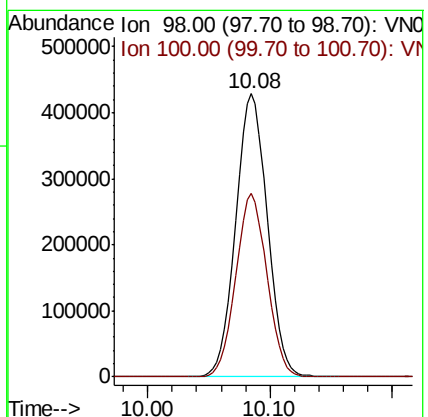
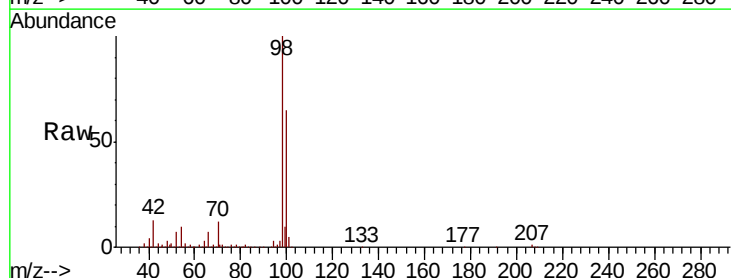
Instrument :
MSVOA_N
ClientSampled :
PB123940TB

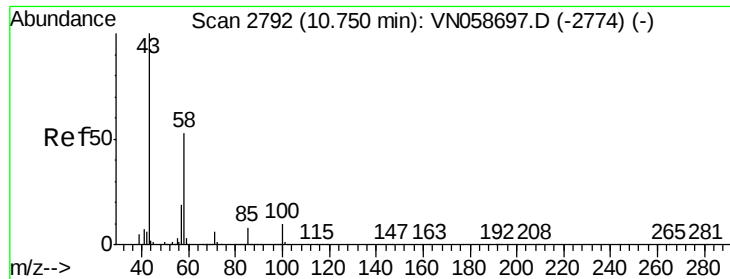
Tot Ion: 41 Resp: 817
Ion Ratio Lower Upper
41 100
39 0.0 115.4 173.2#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



#50
Toluene-d8
Concen: 48.274 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058758.D
Acq: 14 Oct 2019 18:45

Tgt Ion: 98 Resp: 767680
Ion Ratio Lower Upper
98 100
100 63.9 51.1 76.7





#59

2-Hexanone

Concen: 0.317 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN058758.D

Acq: 14 Oct 2019 18:45

Instrument :

MSVOA_N

ClientSampleId :

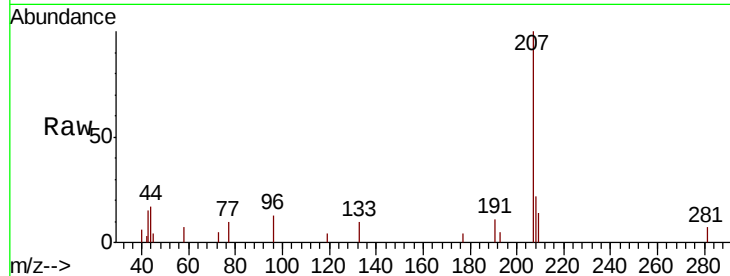
PB123940TB

Tot Ion: 43 Resp: 1543

Ion Ratio Lower Upper

43 100

58 30.4 26.1 78.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.75

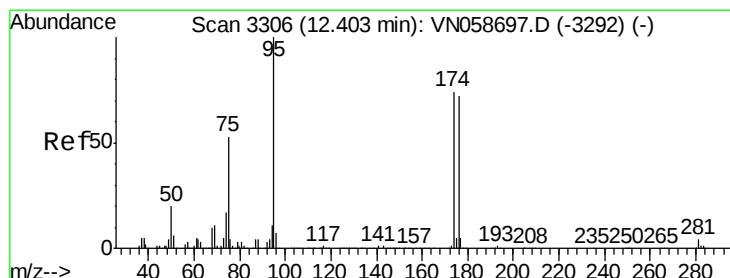
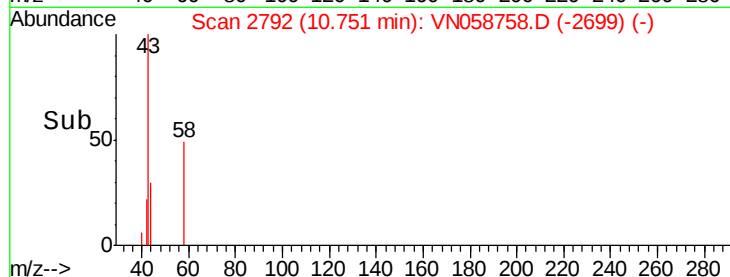
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 43.089 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058758.D

Acq: 14 Oct 2019 18:45

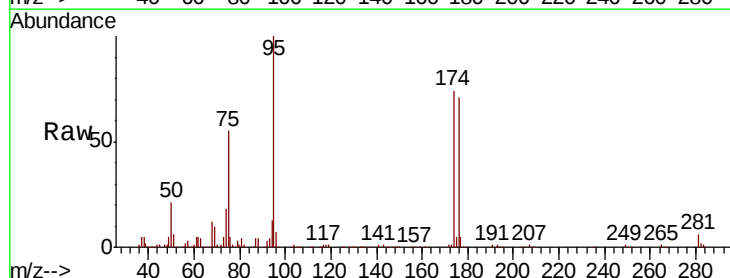
Tgt Ion: 95 Resp: 259375

Ion Ratio Lower Upper

95 100

174 75.4 0.0 150.4

176 73.1 0.0 146.8



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

200000

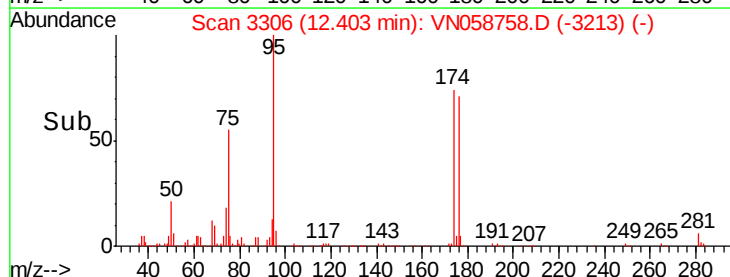
150000

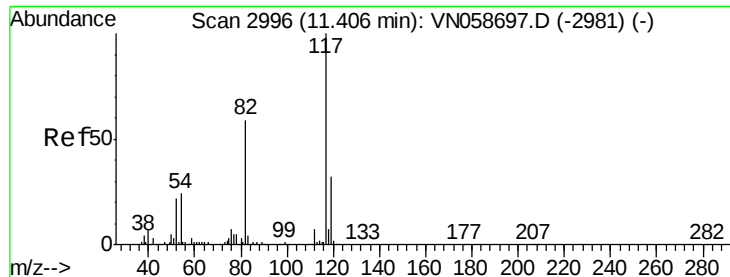
100000

50000

0

Time-->

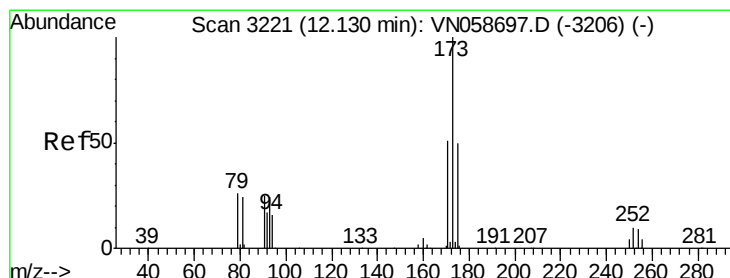
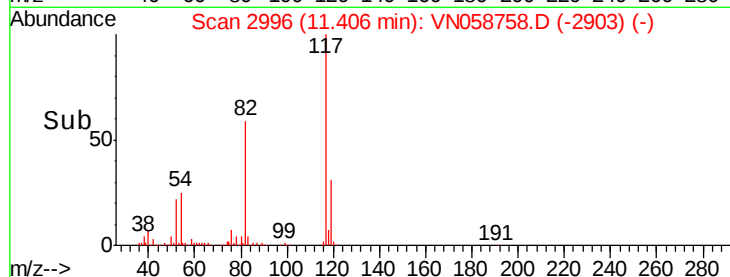
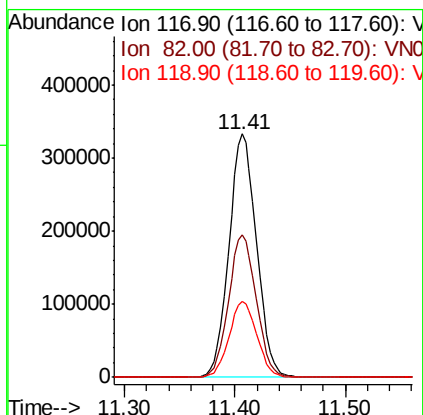
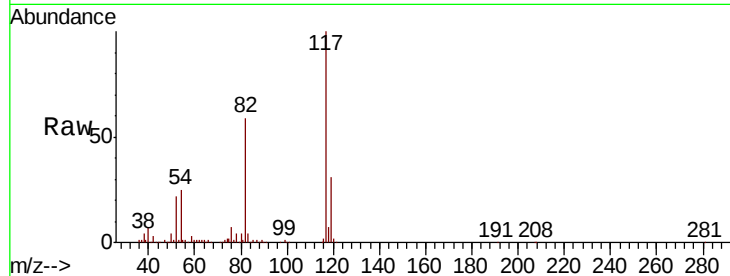




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058758.D
Acq: 14 Oct 2019 18:45

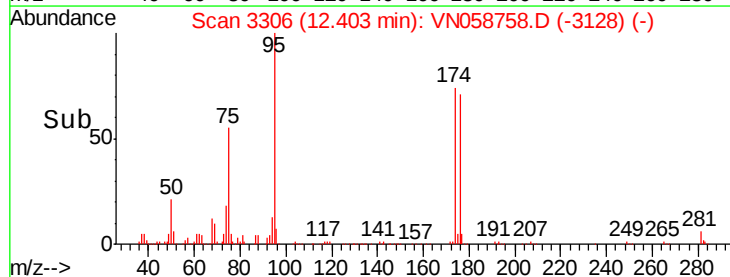
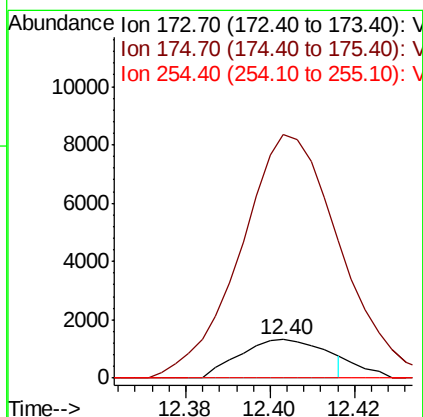
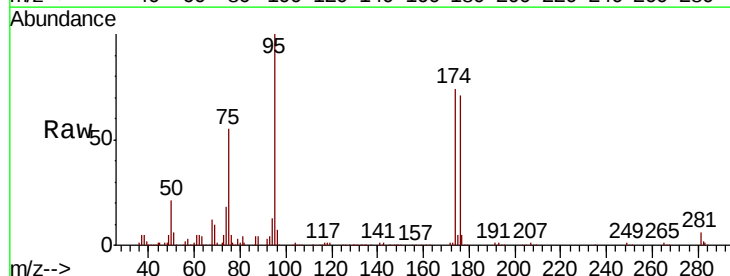
Instrument :
MSVOA_N
ClientSampleId :
PB123940TB

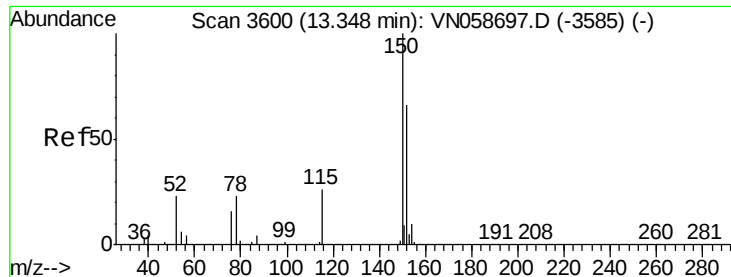
Tot Ion:117 Resp: 575653
Ion Ratio Lower Upper
117 100
82 58.7 47.0 70.4
119 31.3 25.4 38.2



#71
Bromoform
Concen: 0.589 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN058758.D
Acq: 14 Oct 2019 18:45

Tgt Ion:173 Resp: 1865
Ion Ratio Lower Upper
173 100
175 638.2 24.6 73.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058758.D

Acq: 14 Oct 2019 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB123940TB

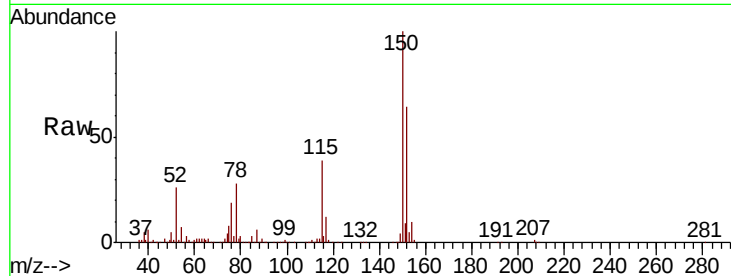
Tot Ion:152 Resp: 232602

Ion Ratio Lower Upper

152 100

115 60.7 30.4 91.2

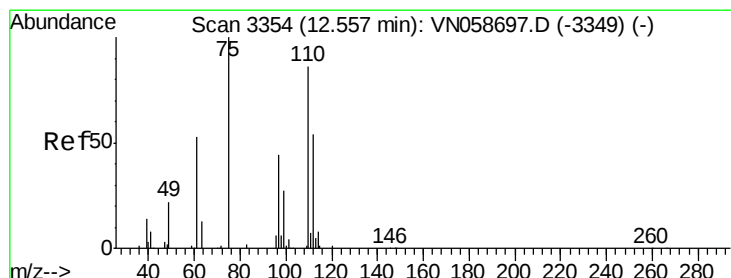
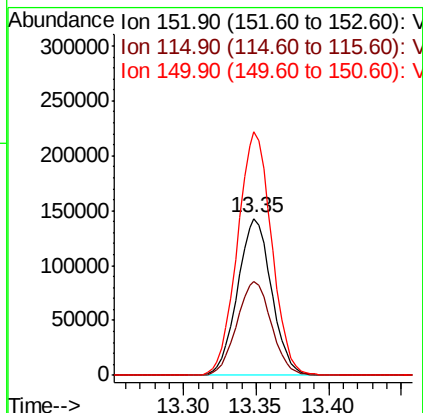
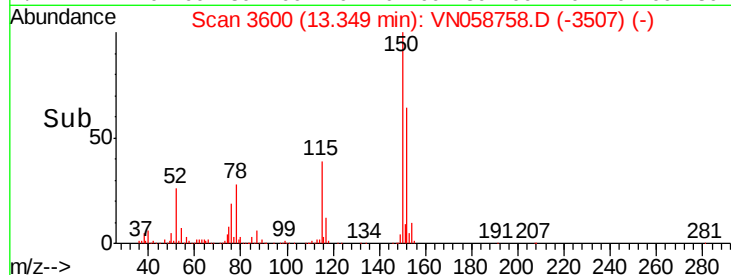
150 156.5 0.0 345.4



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: 27.628 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058758.D

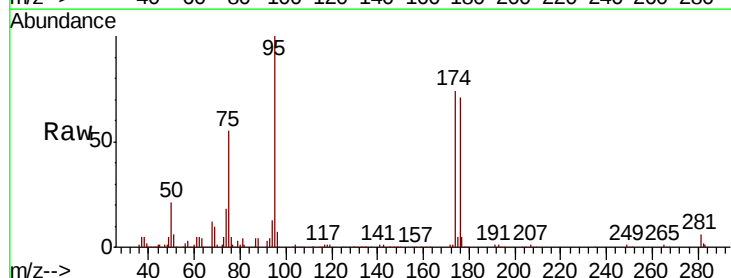
Acq: 14 Oct 2019 18:45

Tgt Ion: 75 Resp: 140977

Ion Ratio Lower Upper

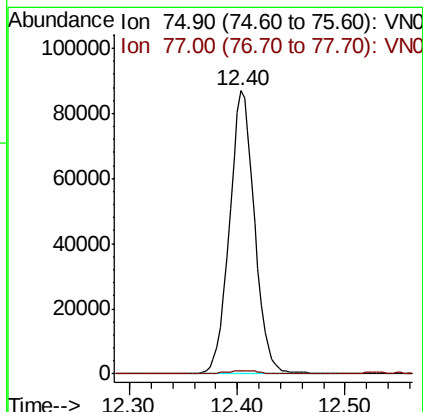
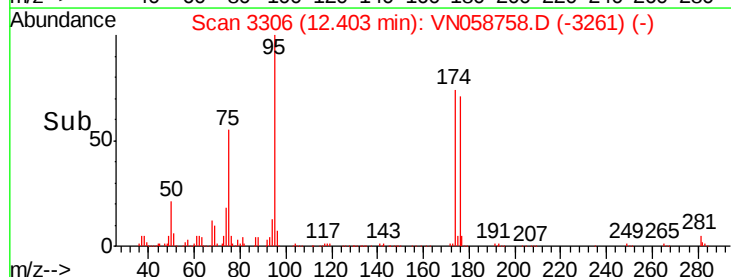
75 100

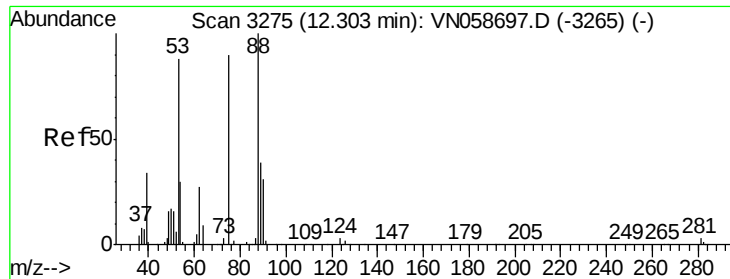
77 1.4 0.0 0.0#



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: 74.006 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058758.D

Acq: 14 Oct 2019 18:45

Instrument :

MSVOA_N

ClientSampled :

PB123940TB

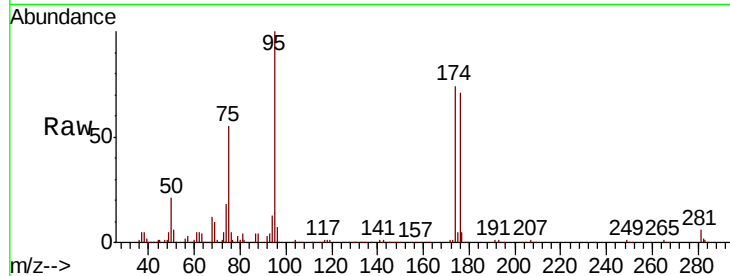
Tot Ion: 75 Resp: 140977

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

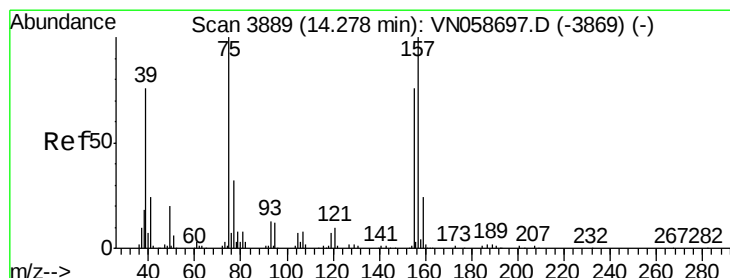
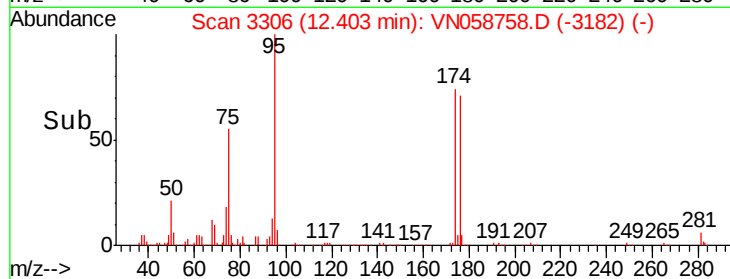
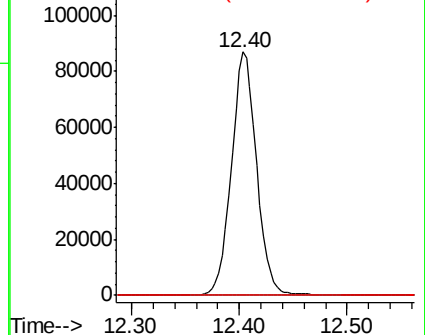
89 0.0 34.9 52.3#



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: 0.603 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. -0.00 min

Lab File: VN058758.D

Acq: 14 Oct 2019 18:45

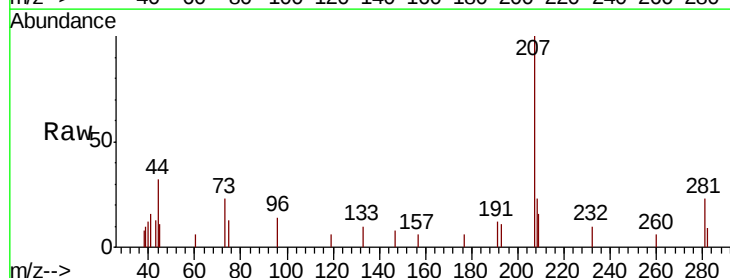
Tgt Ion: 75 Resp: 782

Ion Ratio Lower Upper

75 100

155 0.0 37.9 113.6#

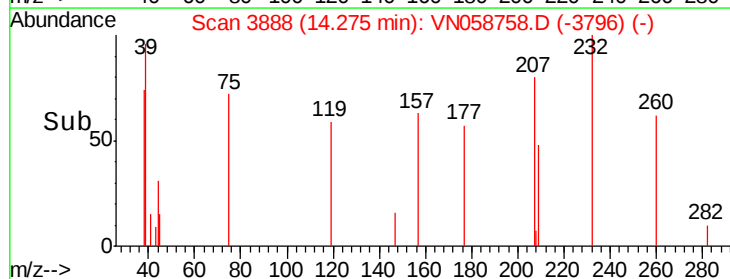
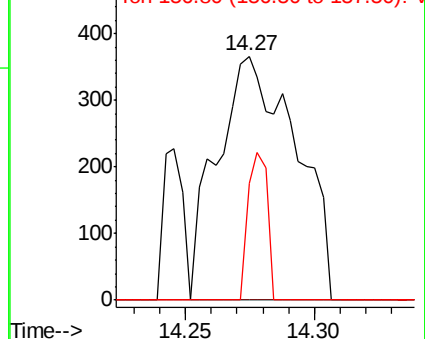
157 14.7 49.4 148.2#

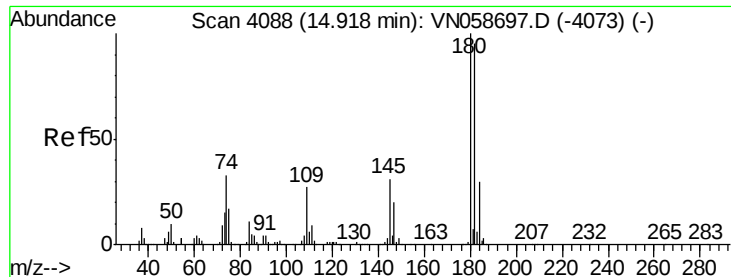


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

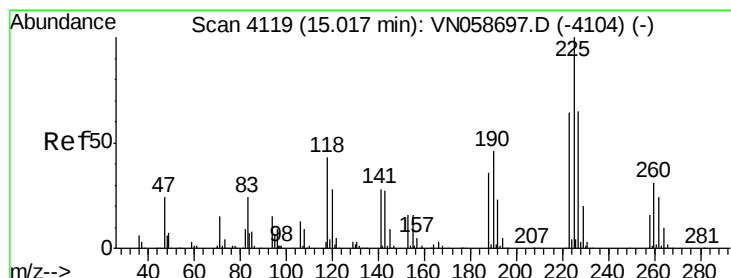
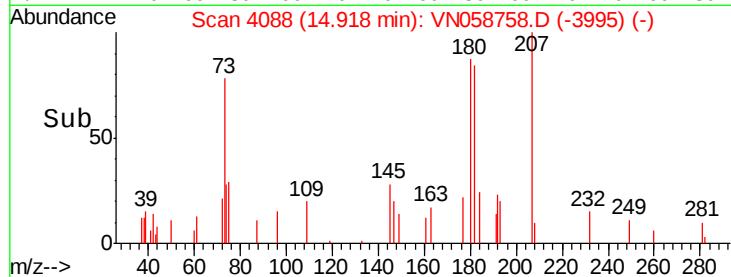
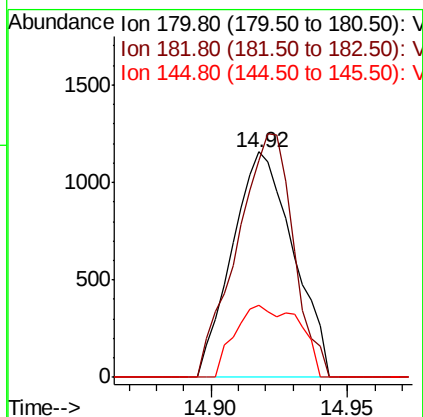
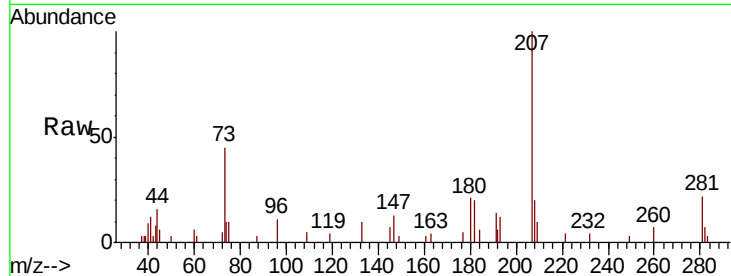




#93
 1,2,4-Trichlorobenzene
 Concen: 0.400 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058758.D
 Acq: 14 Oct 2019 18:45

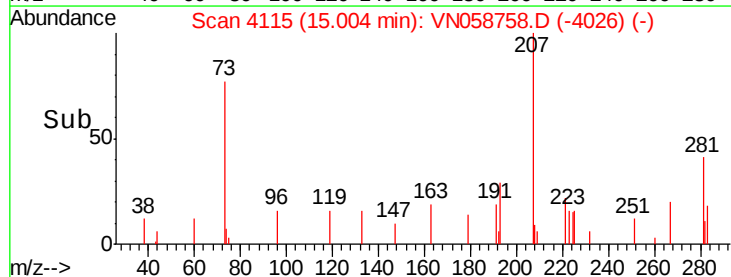
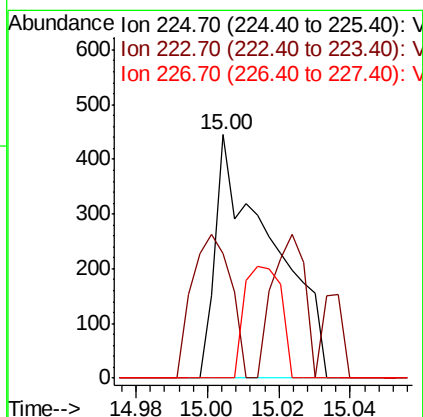
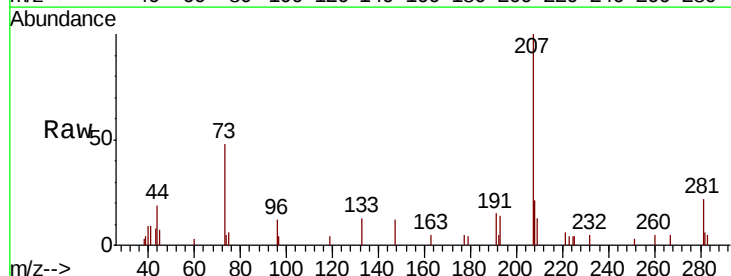
Instrument :
 MSVOA_N
 ClientSampleId :
 PB123940TB

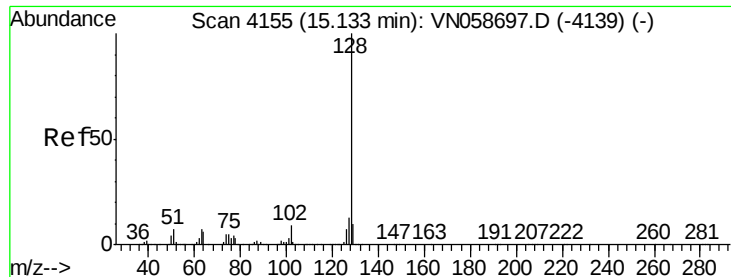
Tot Ion:180 Resp: 1797
 Ion Ratio Lower Upper
 180 100
 182 99.3 47.4 142.2
 145 33.6 15.4 46.2



#94
 Hexachlorobutadiene
 Concen: 0.205 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.01 min
 Lab File: VN058758.D
 Acq: 14 Oct 2019 18:45

Tgt Ion:225 Resp: 486
 Ion Ratio Lower Upper
 225 100
 223 40.7 32.3 96.8
 227 0.0 32.4 97.0#





#95

Naphthalene

Concen: 0.628 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058758.D

Acq: 14 Oct 2019 18:45

Instrument :

MSVOA_N

ClientSampled :

PB123940TB

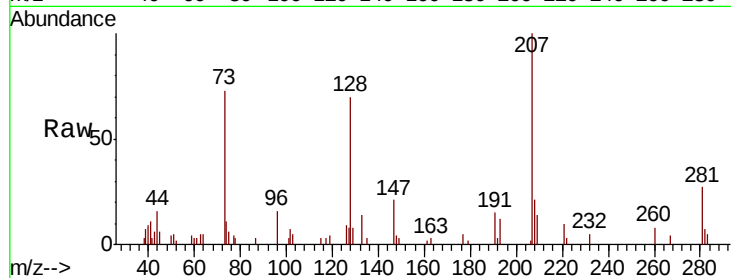
Tot Ion:128 Resp: 8109

Ion Ratio Lower Upper

128 100

127 9.0 10.2 15.4#

129 9.0 8.5 12.7

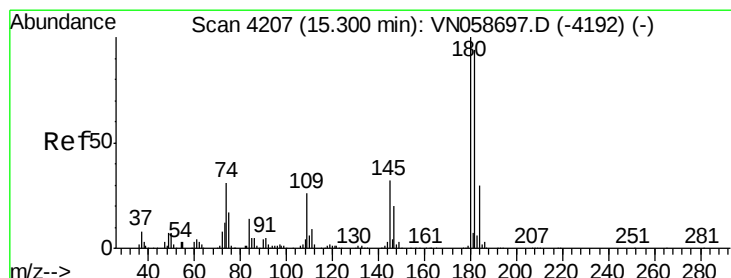
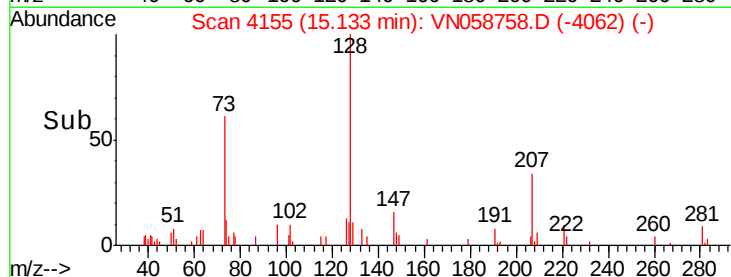
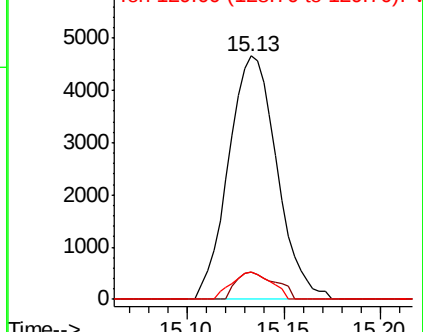


Abundance

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: 0.528 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. -0.00 min

Lab File: VN058758.D

Acq: 14 Oct 2019 18:45

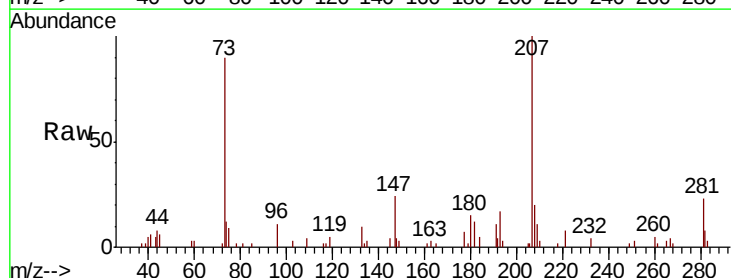
Tgt Ion:180 Resp: 2315

Ion Ratio Lower Upper

180 100

182 90.2 47.3 142.0

145 43.5 16.2 48.6



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

