

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN080919\
 Data File : VN057138.D
 Acq On : 9 Aug 2019 11:47
 Operator : JC/SP
 Sample : K4262-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB_080719

Quant Time: Aug 10 02:10:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080719W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:49:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1443076	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	2002639	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.90	117	1635412	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.87	152	379108	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	671886	45.27	ug/l	0.00
Spiked Amount			Recovery	=	90.54%	
35) Dibromofluoromethane	6.99	113	607873	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	
50) Toluene-d8	9.56	98	2313212	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
62) 4-Bromofluorobenzene	11.92	95	593266	38.30	ug/l	0.00
Spiked Amount			Recovery	=	76.60%	

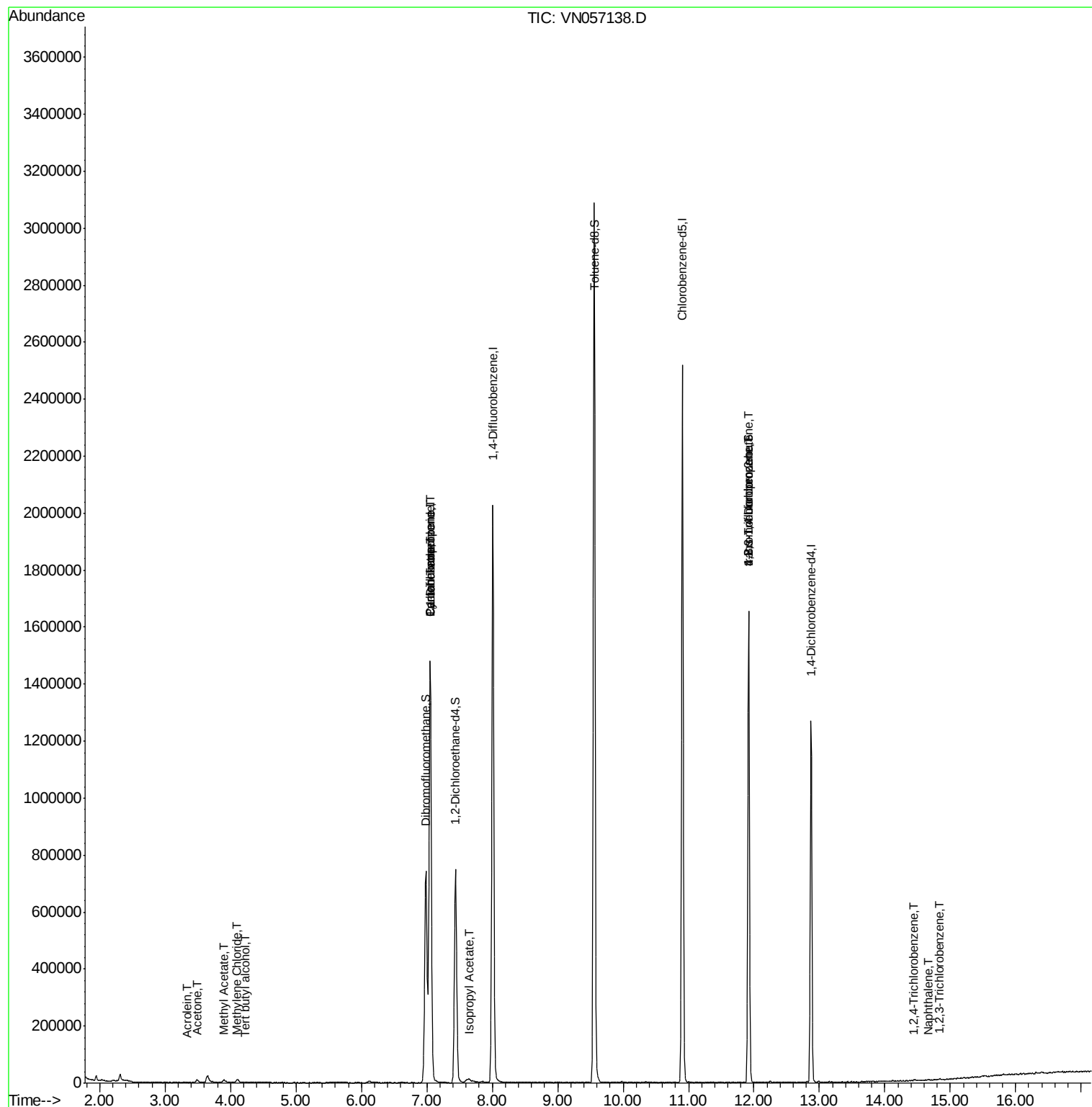
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.23	59	2238	1.060	ug/l #	73
13) Acrolein	3.33	56	294	0.220	ug/l	97
16) Acetone	3.49	43	11122	2.481	ug/l	95
18) Methyl Acetate	3.90	43	17926	0.694	ug/l	96
20) Methylene Chloride	4.09	84	4561	0.308	ug/l	85
31) Cyclohexane	7.05	56	20534	0.954	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	86389	5.239	ug/l #	42
38) Carbon Tetrachloride	7.05	117	122338	7.119	ug/l #	16
43) Isopropyl Acetate	7.64	43	21578	0.930	ug/l #	51
73) Isopropylbenzene	11.76	105	674	Below Cal		75
75) 1,1,2,2-Tetrachloroethane	11.91	83	110	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.92	75	266638	35.155	ug/l #	100
79) 2-Chlorotoluene	12.20	91	904	Below Cal		71
81) trans-1,4-Dichloro-2-buten	11.92	75	266638	103.414	ug/l #	14
83) tert-Butylbenzene	12.53	119	292	Below Cal	#	65
93) 1,2,4-Trichlorobenzene	14.45	180	620	6.030	ug/l #	1
94) Hexachlorobutadiene	14.55	225	317	Below Cal	#	40
95) Naphthalene	14.66	128	2023	3.009	ug/l #	82
96) 1,2,3-Trichlorobenzene	14.84	180	1388	5.937	ug/l	91

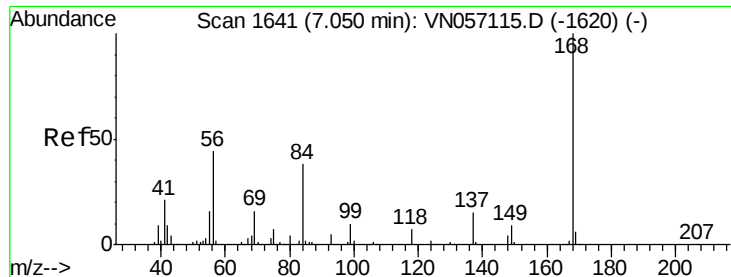
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. 0.00 min

Lab File: VN057138.D

Acq: 9 Aug 2019 11:47

Instrument :

MSVOA_N

ClientSampleId :

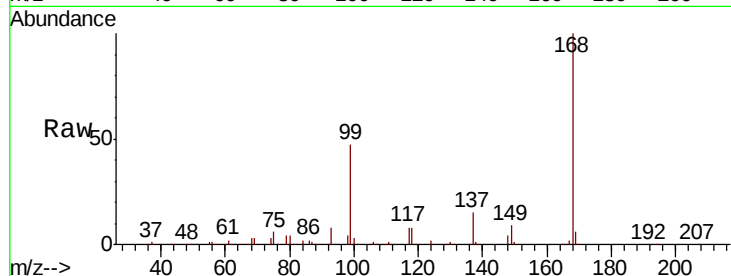
FB_080719

Tgt Ion:168 Resp: 1443076

Ion Ratio Lower Upper

168 100

99 47.2 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): VN057115.D (-1620) (-)

Ion 98.90 (98.60 to 99.60): VN057115.D (-1620) (-)

7.05

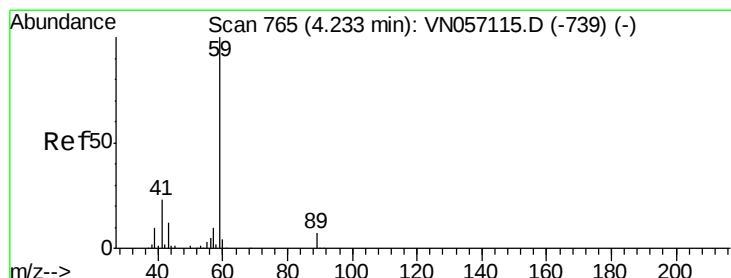
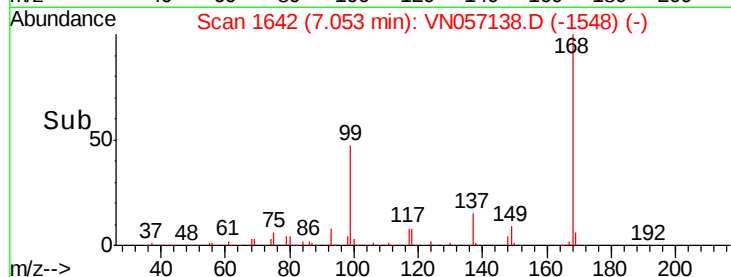
600000

400000

200000

0

Time--> 6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 1.060 ug/l

RT: 4.23 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN057138.D

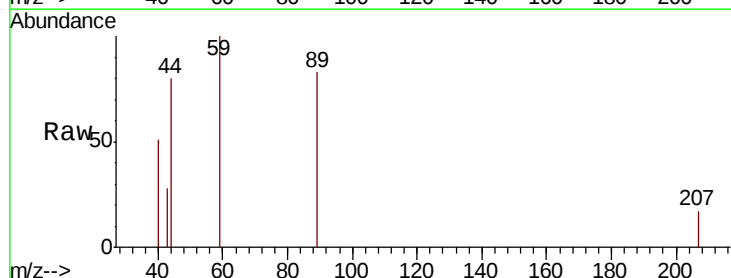
Acq: 9 Aug 2019 11:47

Tgt Ion: 59 Resp: 2238

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN057115.D (-739) (-)

Ion 57.00 (56.70 to 57.70): VN057115.D (-739) (-)

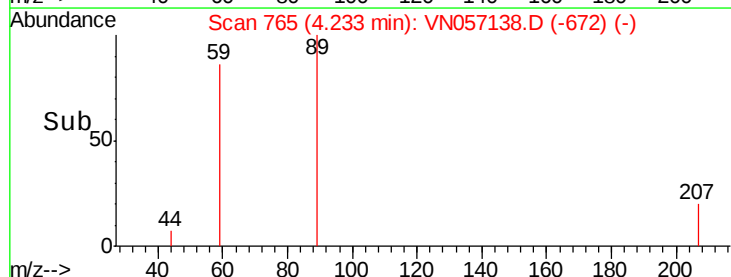
4.23

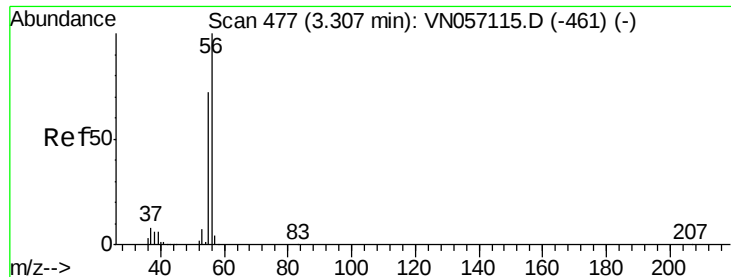
1000

500

0

Time--> 4.20 4.25





#13

Acrolein

Concen: 0.220 ug/l

RT: 3.33 min Scan# 485

Delta R.T. 0.03 min

Lab File: VN057138.D

Acq: 9 Aug 2019 11:47

Instrument :

MSVOA_N

ClientSampleId :

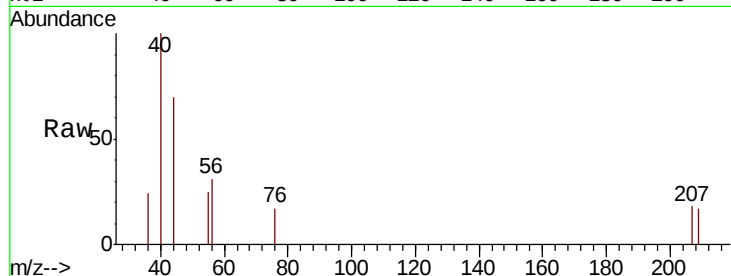
FB_080719

Tgt Ion: 56 Resp: 294

Ion Ratio Lower Upper

56 100

55 69.4 57.7 86.5



Abundance Ion 56.00 (55.70 to 56.70): VN057138.D (-485) (-)

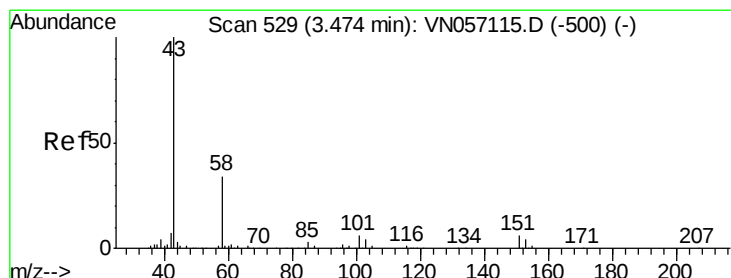
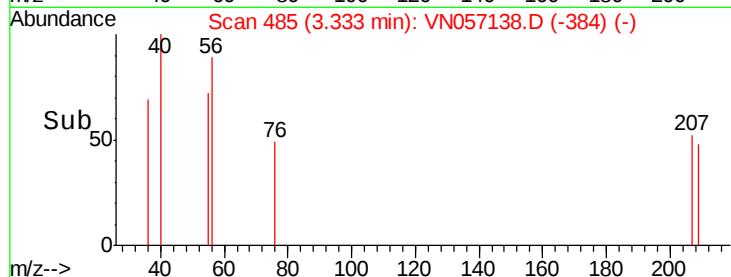
Ion 55.00 (54.70 to 55.70): VN057138.D (-485) (-)

3.33

3.32

3.34

Time-->



#16

Acetone

Concen: 2.481 ug/l

RT: 3.49 min Scan# 533

Delta R.T. 0.01 min

Lab File: VN057138.D

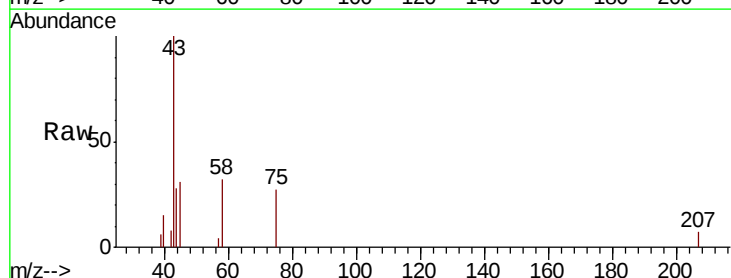
Acq: 9 Aug 2019 11:47

Tgt Ion: 43 Resp: 11122

Ion Ratio Lower Upper

43 100

58 31.6 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VN057138.D (-533) (-)

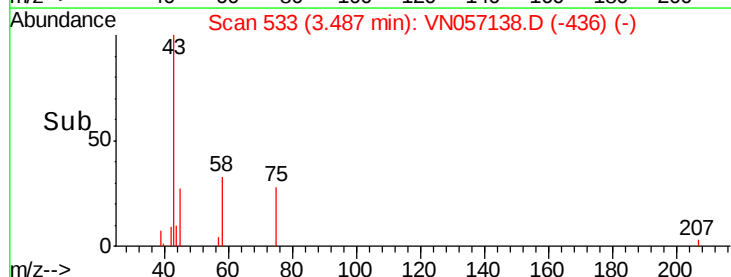
Ion 58.00 (57.70 to 58.70): VN057138.D (-533) (-)

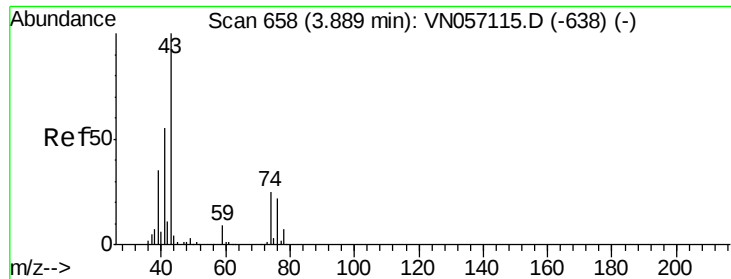
3.49

3.45

3.50

Time-->

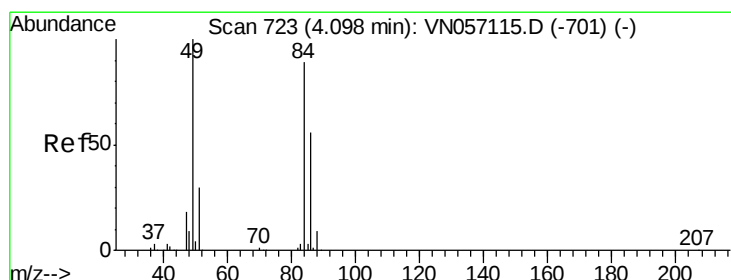
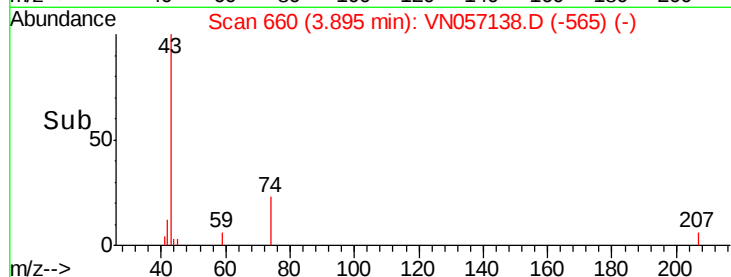
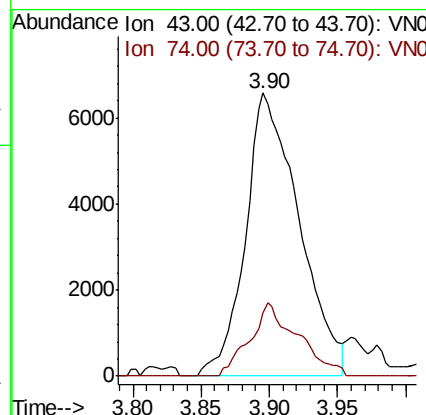
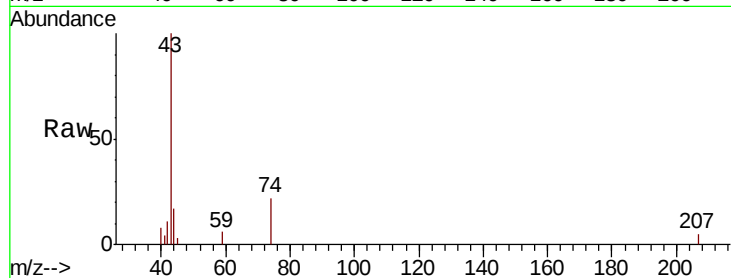




#18
Methyl Acetate
Concen: 0.694 ug/l
RT: 3.90 min Scan# 660
Delta R.T. 0.01 min
Lab File: VN057138.D
Acq: 9 Aug 2019 11:47

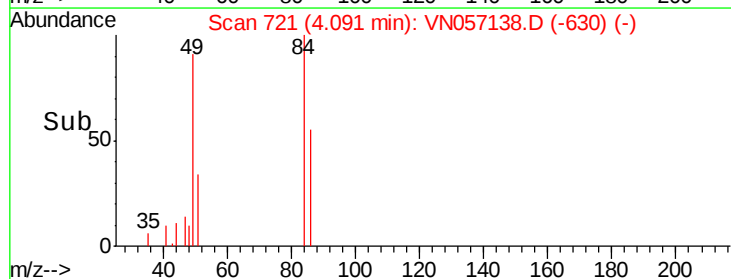
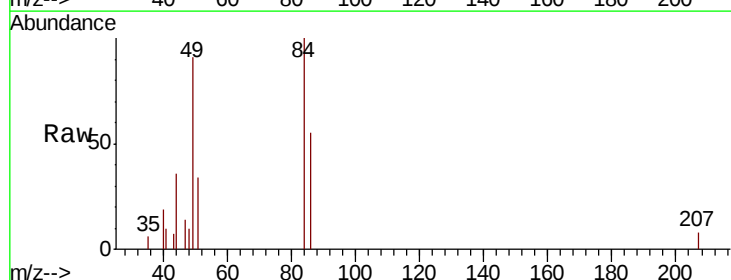
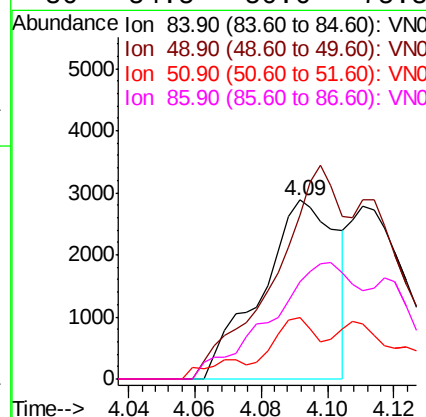
Instrument :
MSVOA_N
ClientSampleId :
FB_080719

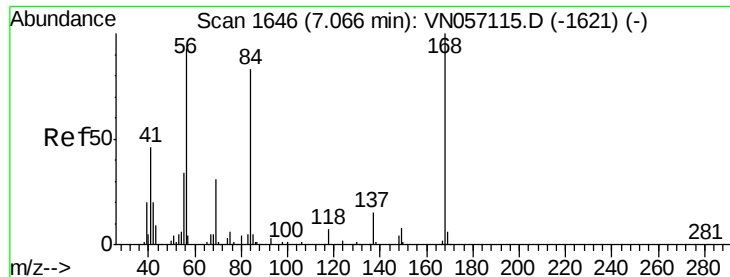
Tgt Ion: 43 Resp: 17926
Ion Ratio Lower Upper
43 100
74 23.3 20.2 30.4



#20
Methylene Chloride
Concen: 0.308 ug/l
RT: 4.09 min Scan# 721
Delta R.T. -0.01 min
Lab File: VN057138.D
Acq: 9 Aug 2019 11:47

Tgt Ion: 84 Resp: 4561
Ion Ratio Lower Upper
84 100
49 91.2 89.5 134.3
51 28.3 27.2 40.8
86 54.5 50.6 75.8

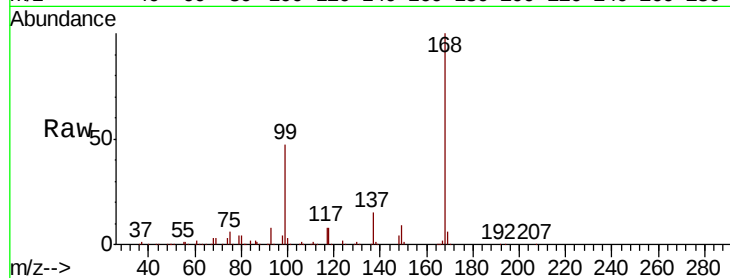




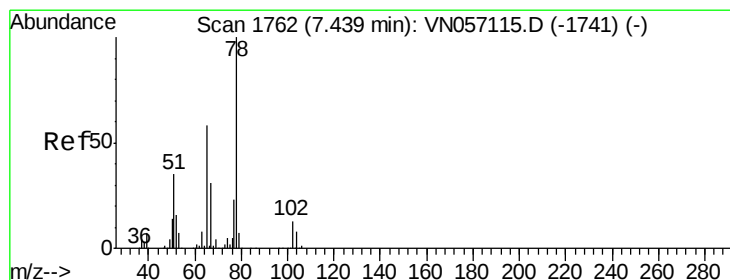
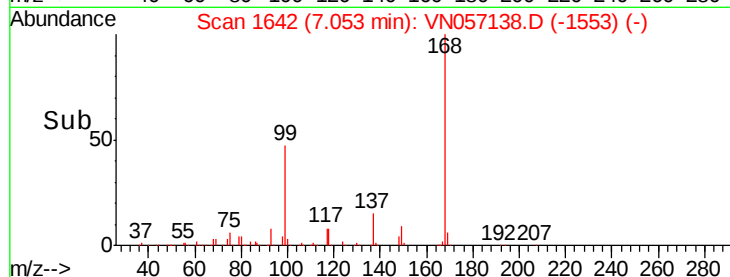
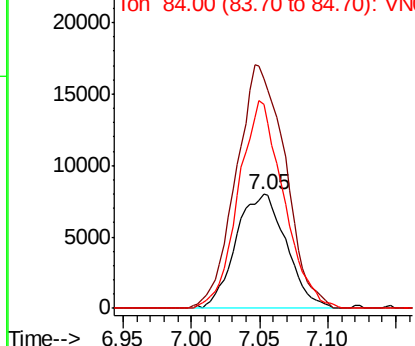
#31
Cyclohexane
Concen: 0.954 ug/l
RT: 7.05 min Scan# 1642
Delta R.T. -0.01 min
Lab File: VN057138.D
Acq: 9 Aug 2019 11:47

Instrument :
MSVOA_N
ClientSampled :
FB_080719

Tgt Ion: 56 Resp: 20534
Ion Ratio Lower Upper
56 100
69 201.6 26.9 40.3#
84 178.9 71.9 107.9#

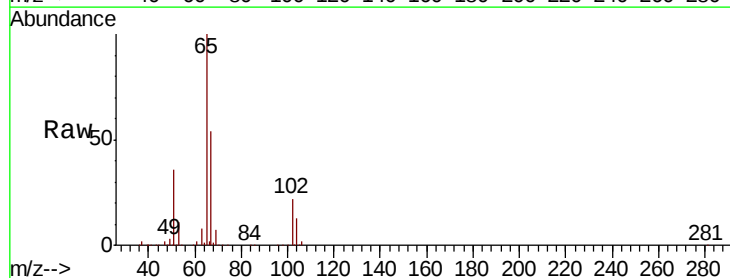


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

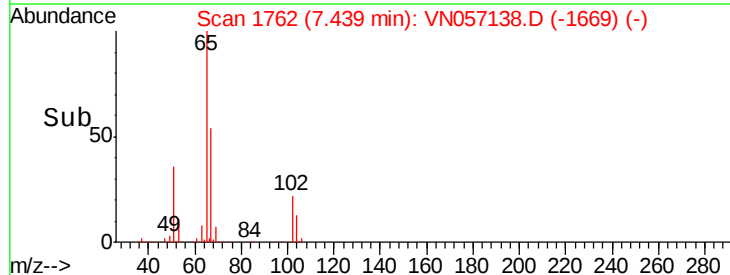
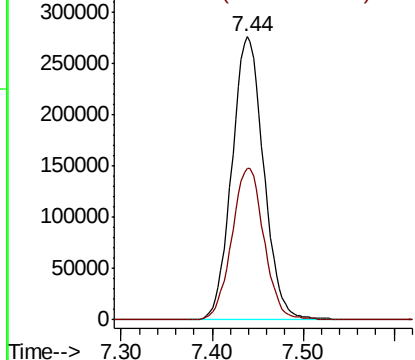


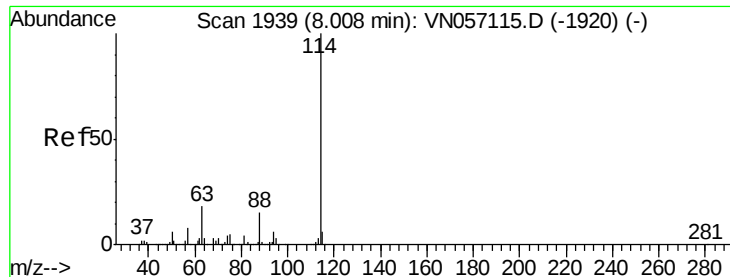
#33
1,2-Dichloroethane-d4
Concen: 45.272 ug/l
RT: 7.44 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VN057138.D
Acq: 9 Aug 2019 11:47

Tgt Ion: 65 Resp: 671886
Ion Ratio Lower Upper
65 100
67 54.4 0.0 108.2



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

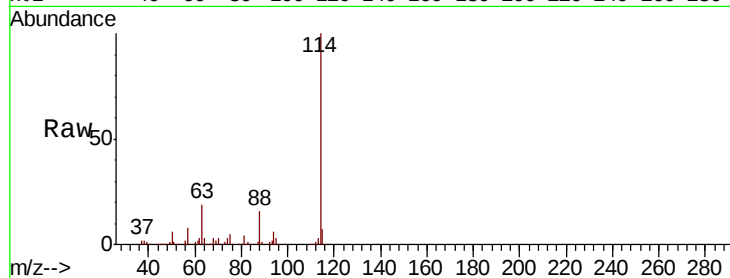




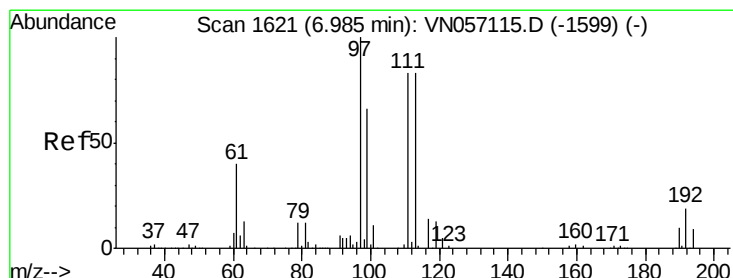
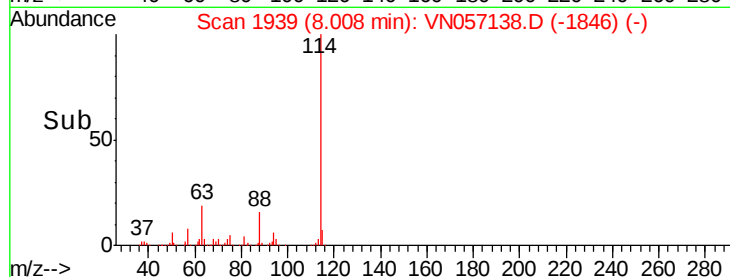
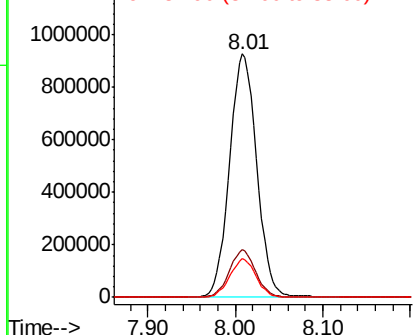
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN057138.D
 Acq: 9 Aug 2019 11:47

Instrument :
 MSVOA_N
 ClientSampleId :
 FB_080719

Tgt Ion:114 Resp: 2002639
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 36.2
 88 15.8 0.0 30.0

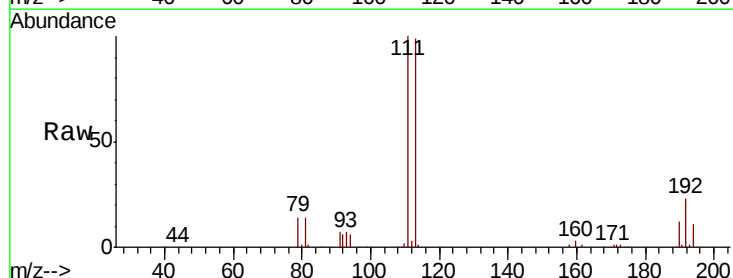


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

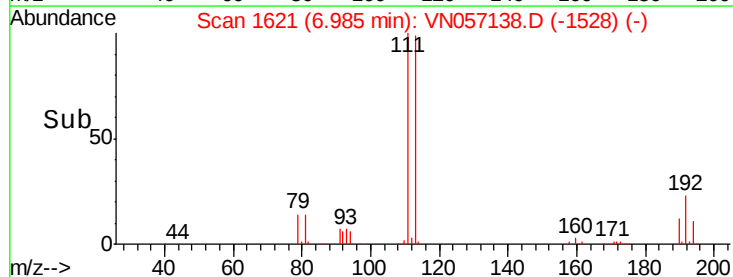
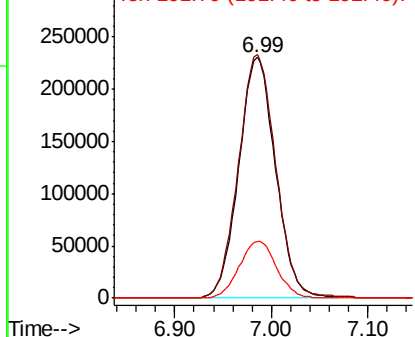


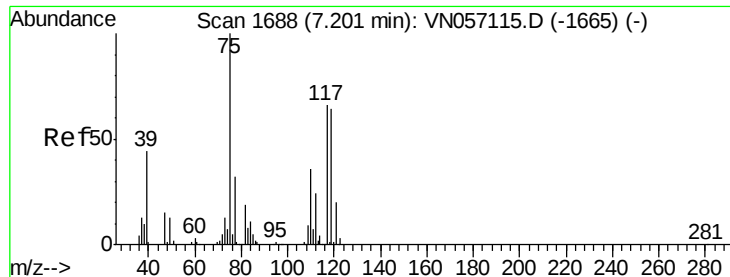
#35
 Dibromofluoromethane
 Concen: 48.371 ug/l
 RT: 6.99 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VN057138.D
 Acq: 9 Aug 2019 11:47

Tgt Ion:113 Resp: 607873
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.3 121.9
 192 24.1 19.0 28.4



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: 5.239 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. -0.15 min

Lab File: VN057138.D

Acq: 9 Aug 2019 11:47

Instrument :

MSVOA_N

ClientSampled :

FB_080719

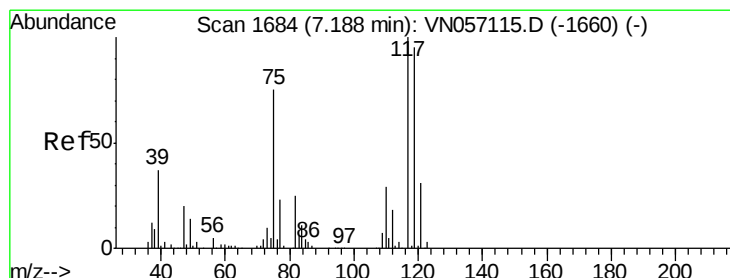
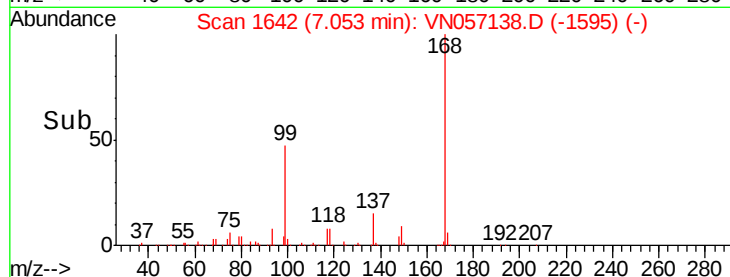
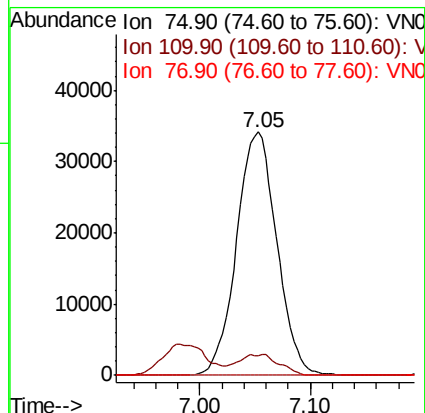
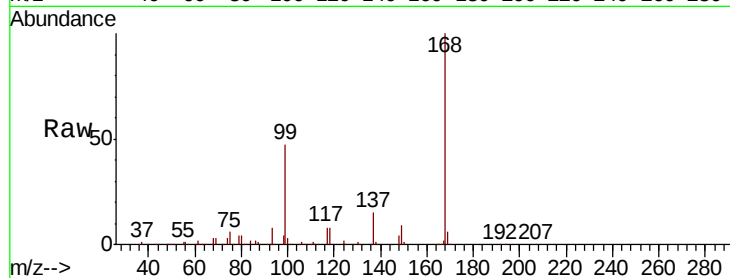
Tgt Ion: 75 Resp: 86389

Ion Ratio Lower Upper

75 100

110 2.0 18.7 56.1#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 7.119 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. -0.14 min

Lab File: VN057138.D

Acq: 9 Aug 2019 11:47

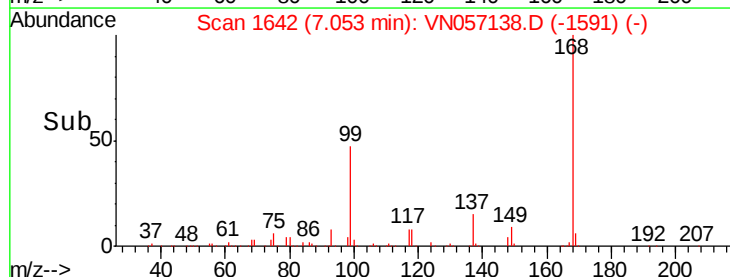
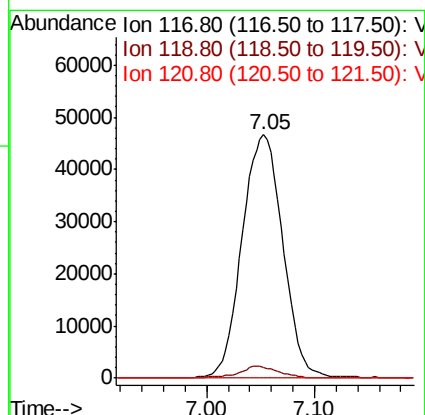
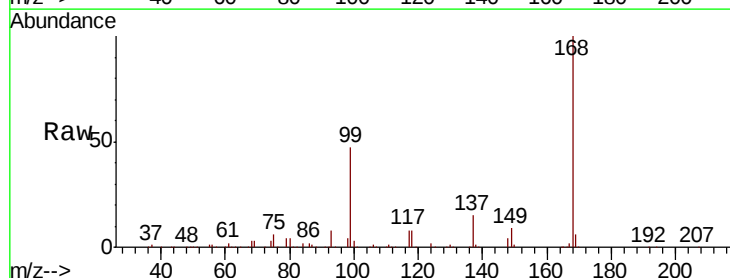
Tgt Ion: 117 Resp: 122338

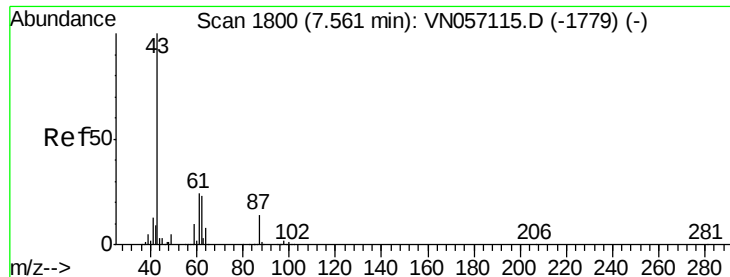
Ion Ratio Lower Upper

117 100

119 4.5 75.8 113.6#

121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 0.930 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.08 min

Lab File: VN057138.D

Acq: 9 Aug 2019 11:47

Instrument :

MSVOA_N

ClientSampleId :

FB_080719

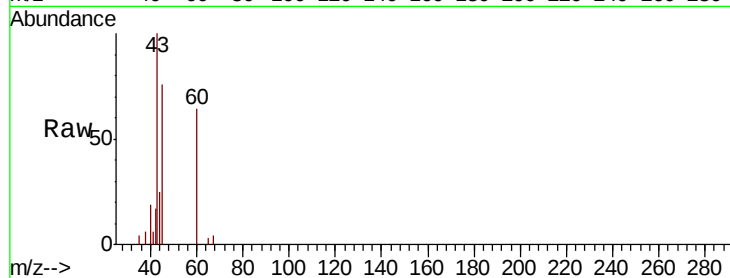
Tgt Ion: 43 Resp: 21578

Ion Ratio Lower Upper

43 100

61 0.0 24.2 36.2#

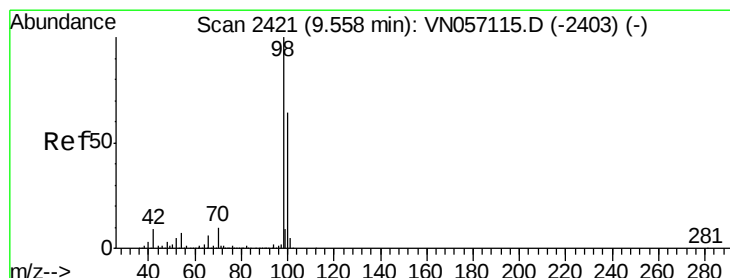
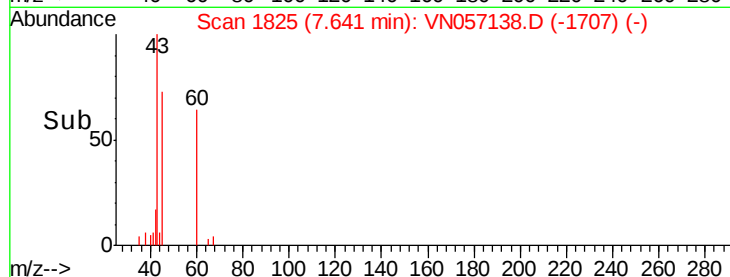
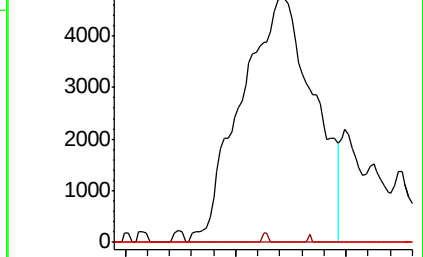
87 0.0 11.8 17.8#



Abundance Ion 43.00 (42.70 to 43.70): VN057138.D (-1779) (-)

Ion 61.00 (60.70 to 61.70): VN057138.D (-1779) (-)

Ion 87.00 (86.70 to 87.70): VN057138.D (-1779) (-)



#50

Toluene-d8

Concen: 48.113 ug/l

RT: 9.56 min Scan# 2421

Delta R.T. -0.00 min

Lab File: VN057138.D

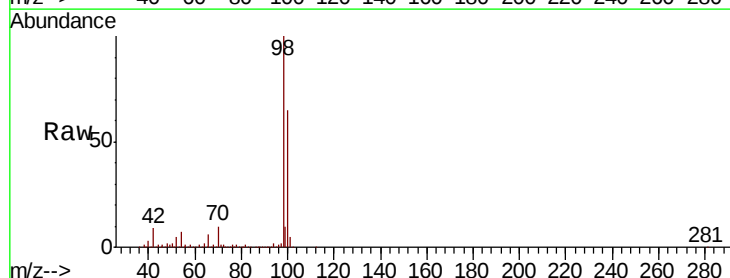
Acq: 9 Aug 2019 11:47

Tgt Ion: 98 Resp: 2313212

Ion Ratio Lower Upper

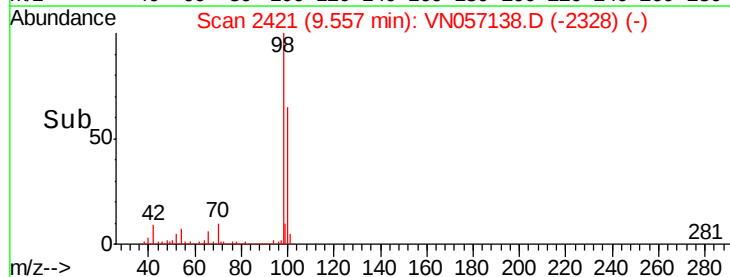
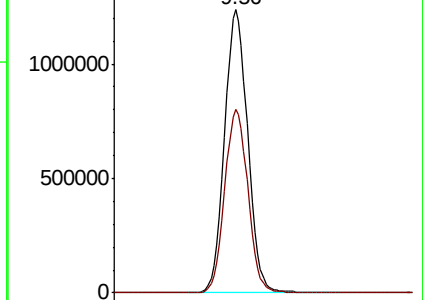
98 100

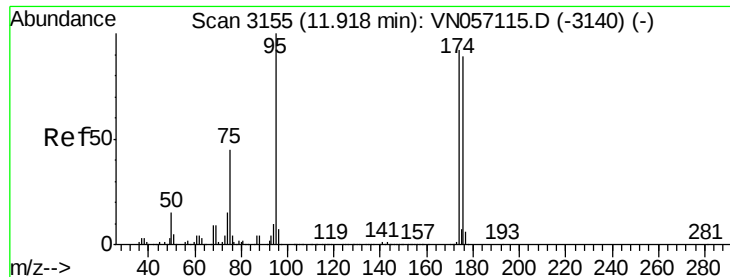
100 65.1 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN057138.D (-2328) (-)

Ion 100.00 (99.70 to 100.70): VN057138.D (-2328) (-)

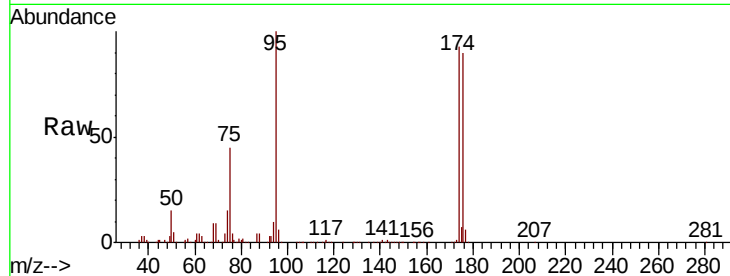




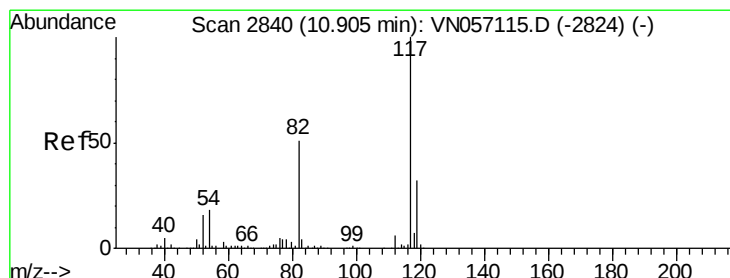
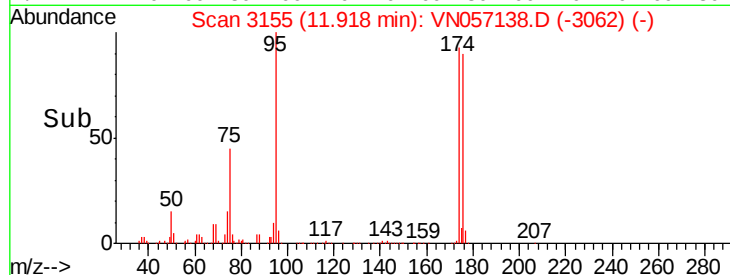
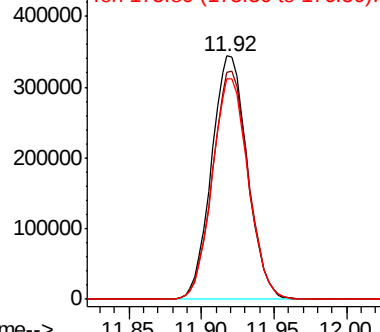
#62
4-Bromofluorobenzene
Concen: 38.297 ug/l
RT: 11.92 min Scan# 3155
Delta R.T. -0.00 min
Lab File: VN057138.D
Acq: 9 Aug 2019 11:47

Instrument :
MSVOA_N
ClientSampleId :
FB_080719

Tgt Ion: 95 Resp: 593266
Ion Ratio Lower Upper
95 100
174 93.7 0.0 185.0
176 90.9 0.0 181.2

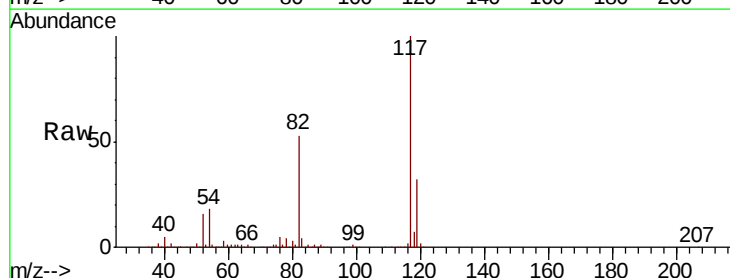


Abundance Ion 94.90 (94.60 to 95.60): VN
Ion 173.80 (173.50 to 174.50): VN
Ion 175.80 (175.50 to 176.50): VN

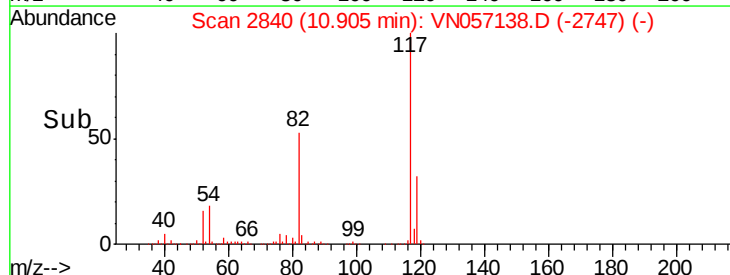
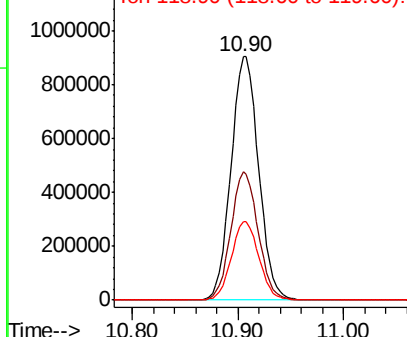


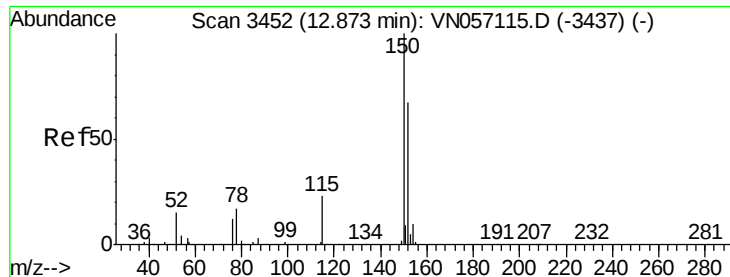
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. -0.00 min
Lab File: VN057138.D
Acq: 9 Aug 2019 11:47

Tgt Ion: 117 Resp: 1635412
Ion Ratio Lower Upper
117 100
82 52.7 40.8 61.2
119 32.3 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): VN
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): VN





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.87 min Scan# 3452

Delta R.T. -0.00 min

Lab File: VN057138.D

Acq: 9 Aug 2019 11:47

Instrument :

MSVOA_N

ClientSampled :

FB_080719

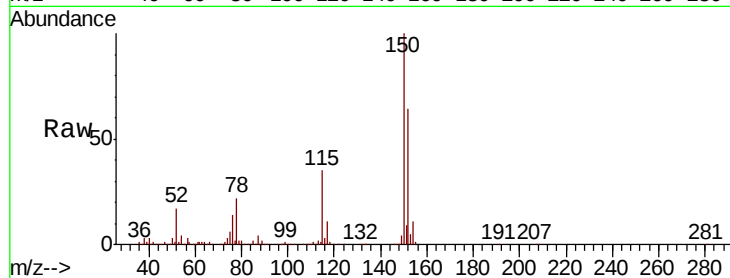
Tgt Ion:152 Resp: 379108

Ion Ratio Lower Upper

152 100

115 56.3 27.5 82.5

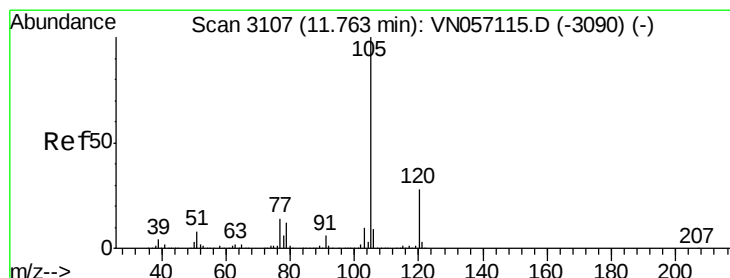
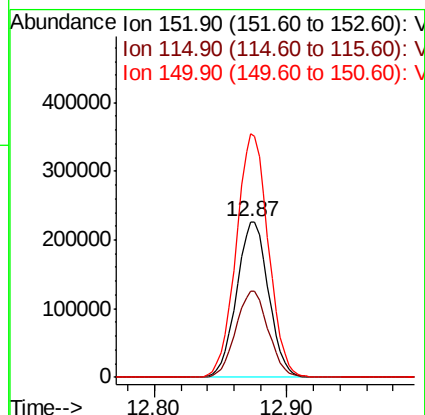
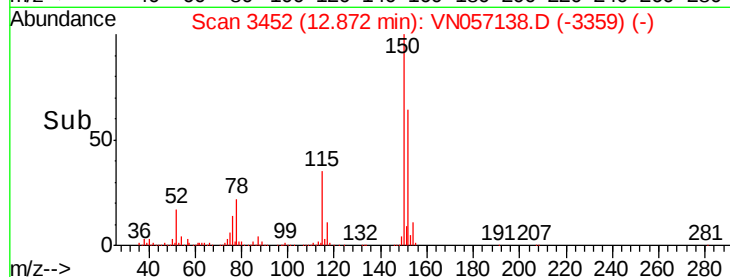
150 157.5 0.0 341.6



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 11.76 min Scan# 3107

Delta R.T. 0.00 min

Lab File: VN057138.D

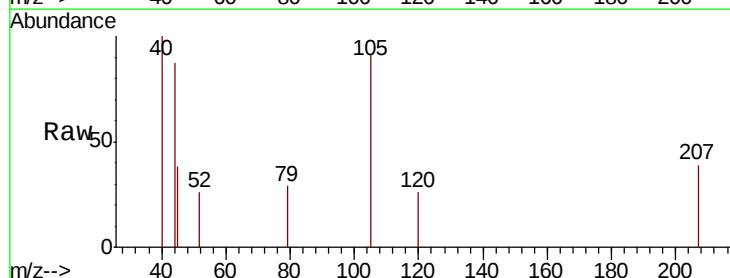
Acq: 9 Aug 2019 11:47

Tgt Ion:105 Resp: 674

Ion Ratio Lower Upper

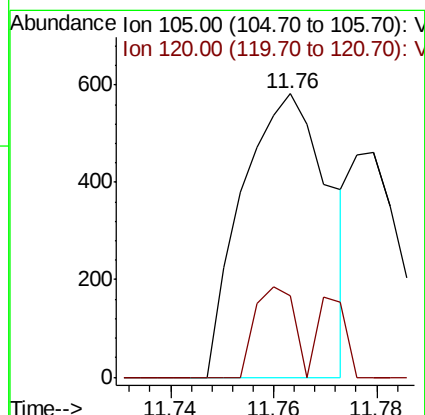
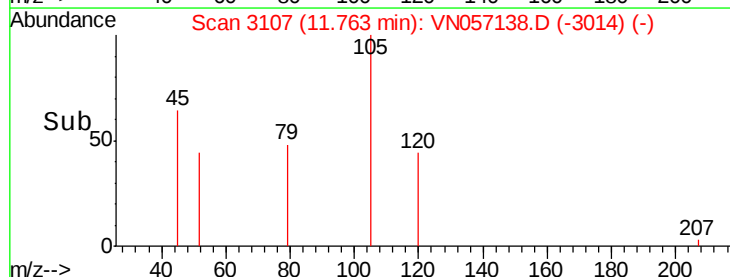
105 100

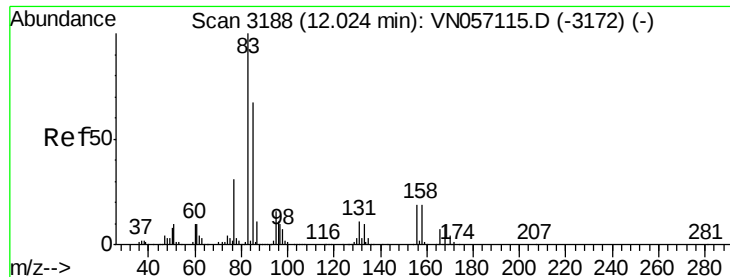
120 14.4 13.7 41.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.91 min Scan# 3153

Delta R.T. -0.11 min

Lab File: VN057138.D

Acq: 9 Aug 2019 11:47

Instrument :

MSVOA_N

ClientSampleId :

FB_080719

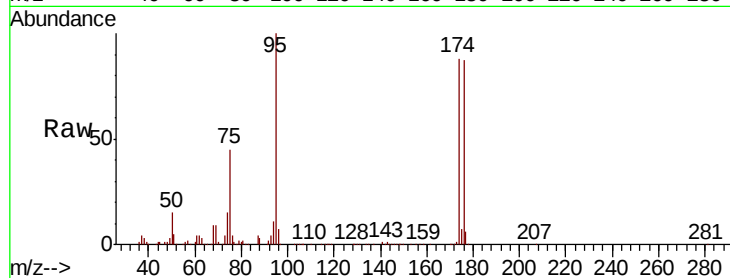
Tgt Ion: 83 Resp: 110

Ion Ratio Lower Upper

83 100

131 738.2 5.5 16.4#

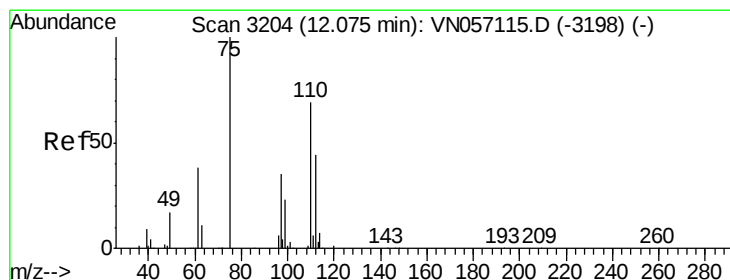
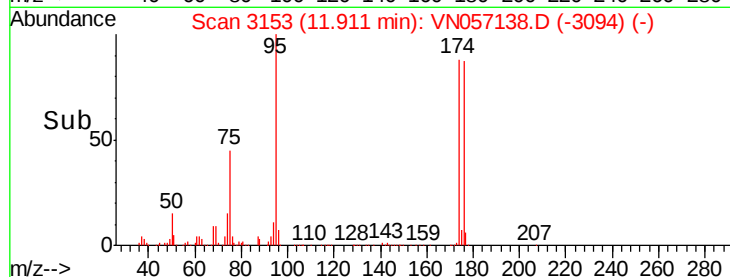
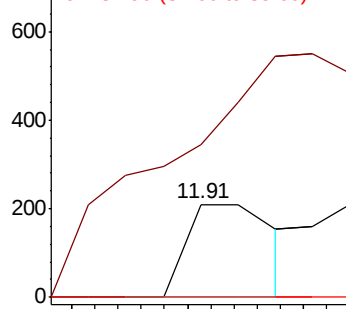
85 0.0 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 35.155 ug/l

RT: 11.92 min Scan# 3155

Delta R.T. -0.16 min

Lab File: VN057138.D

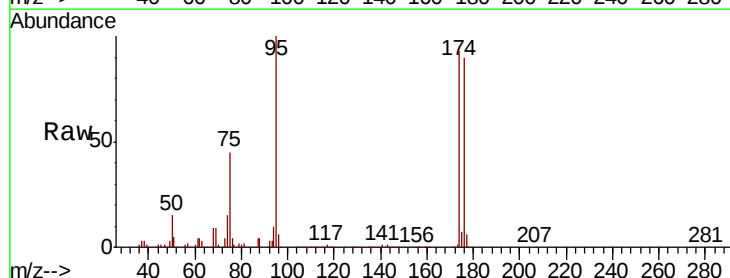
Acq: 9 Aug 2019 11:47

Tgt Ion: 75 Resp: 266638

Ion Ratio Lower Upper

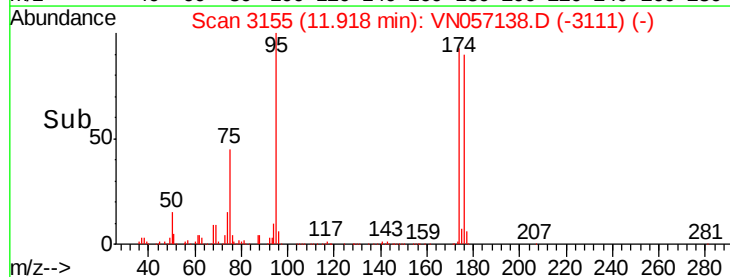
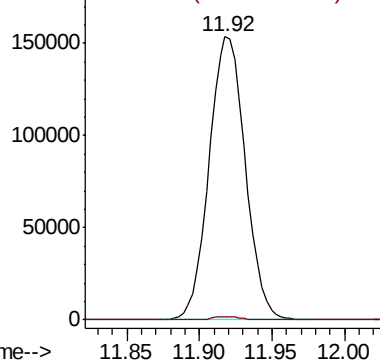
75 100

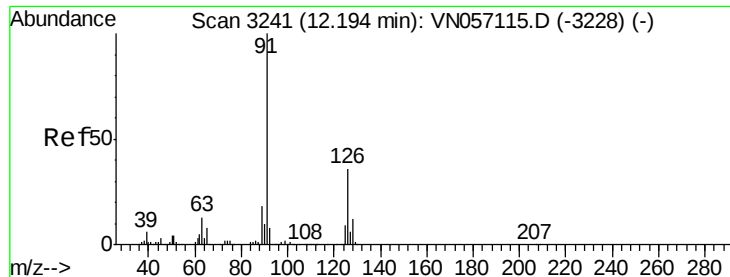
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

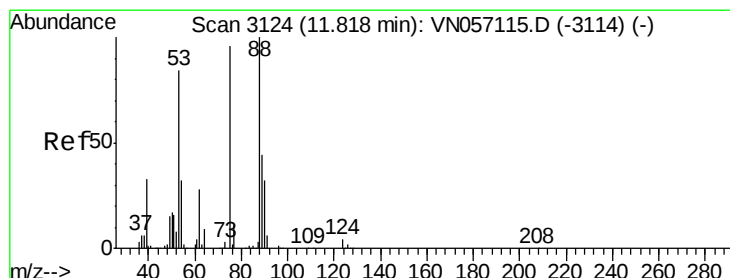
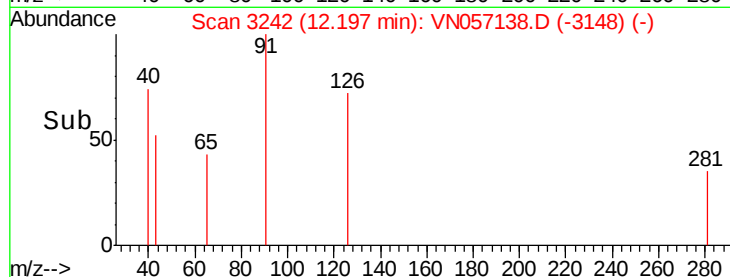
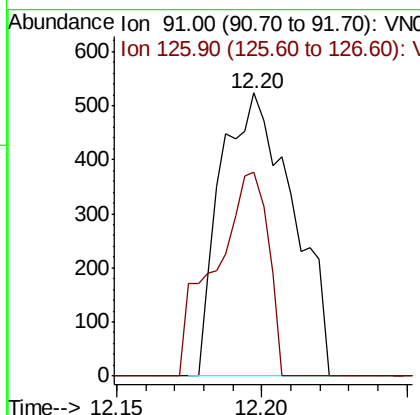
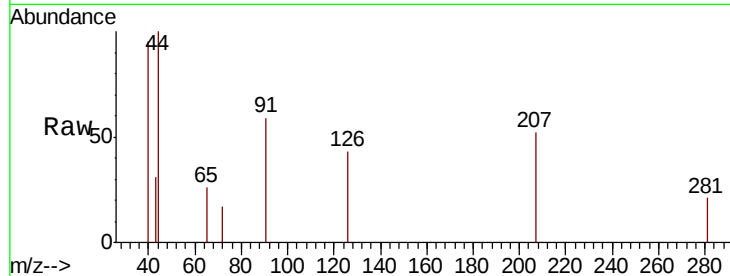




#79
2-Chlorotoluene
Concen: Below Cal
RT: 12.20 min Scan# 3242
Delta R.T. 0.00 min
Lab File: VN057138.D
Acq: 9 Aug 2019 11:47

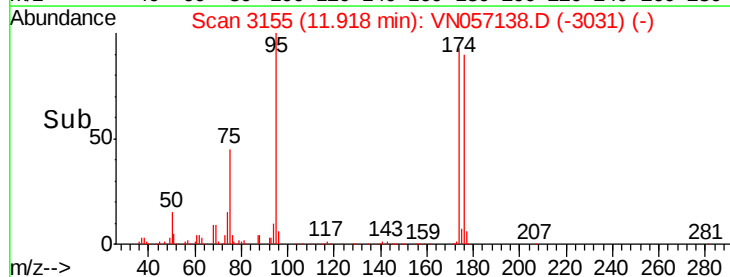
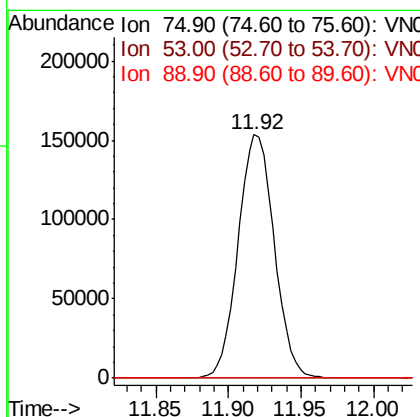
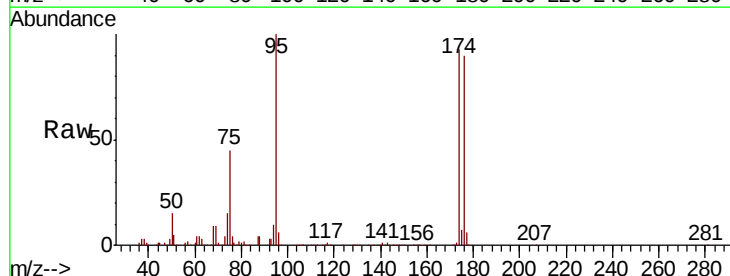
Instrument :
MSVOA_N
ClientSampleId :
FB_080719

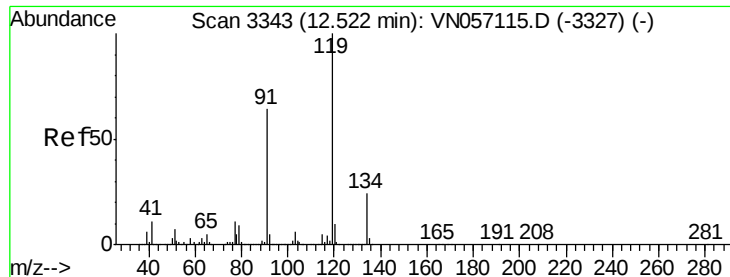
Tgt Ion: 91 Resp: 904
Ion Ratio Lower Upper
91 100
126 53.3 18.1 54.3



#81
trans-1,4-Dichloro-2-butene
Concen: 103.414 ug/l
RT: 11.92 min Scan# 3155
Delta R.T. 0.10 min
Lab File: VN057138.D
Acq: 9 Aug 2019 11:47

Tgt Ion: 75 Resp: 266638
Ion Ratio Lower Upper
75 100
53 0.0 70.6 106.0#
89 0.0 36.4 54.6#

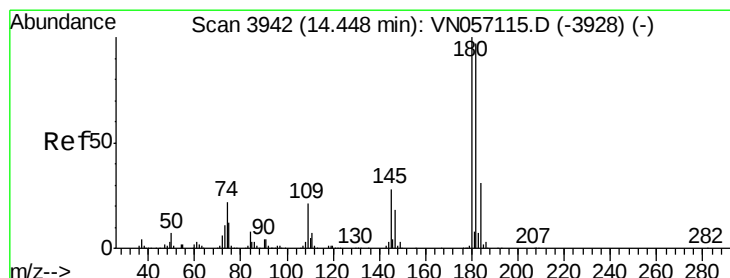
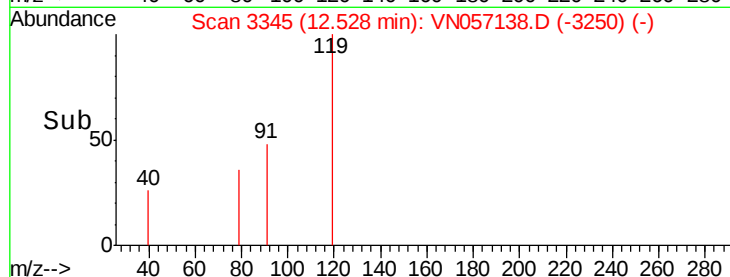
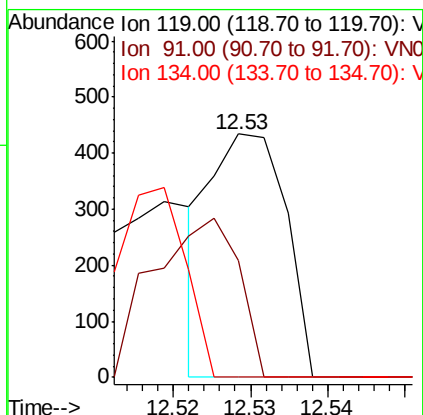
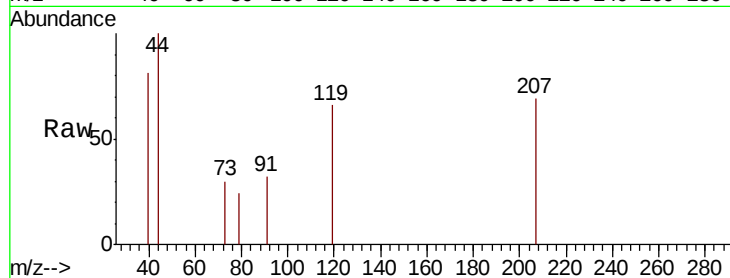




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.53 min Scan# 3345
 Delta R.T. 0.01 min
 Lab File: VN057138.D
 Acq: 9 Aug 2019 11:47

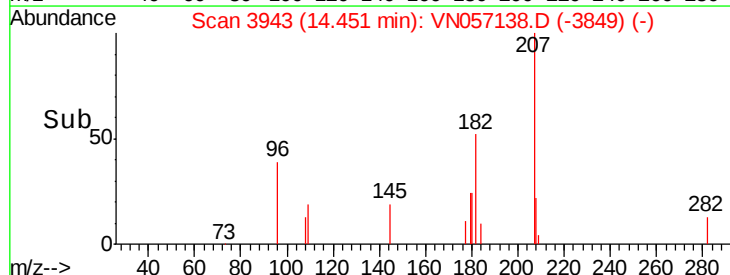
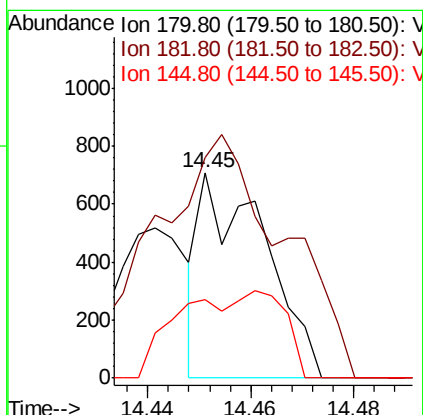
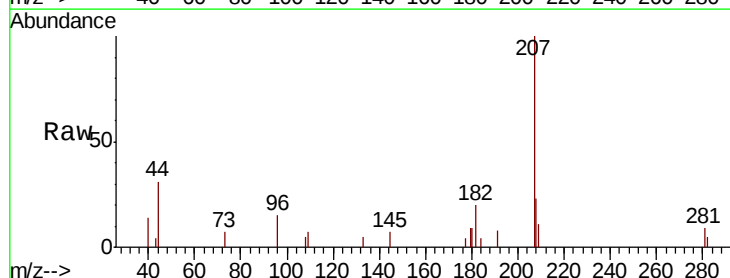
Instrument :
 MSVOA_N
 ClientSampled :
 FB_080719

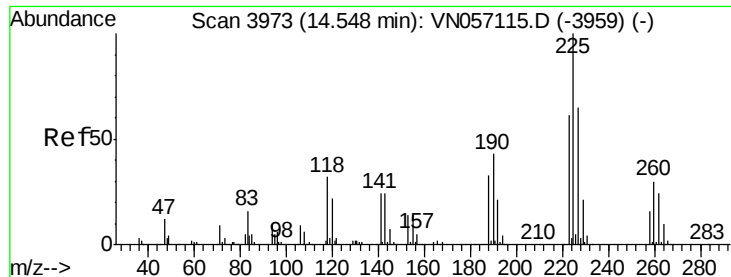
Tgt Ion:119 Resp: 292
 Ion Ratio Lower Upper
 119 100
 91 74.3 31.4 94.2
 134 68.8 13.2 39.6#



#93
 1,2,4-Trichlorobenzene
 Concen: 6.030 ug/l
 RT: 14.45 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VN057138.D
 Acq: 9 Aug 2019 11:47

Tgt Ion:180 Resp: 620
 Ion Ratio Lower Upper
 180 100
 182 233.7 47.5 142.6#
 145 34.8 14.1 42.2

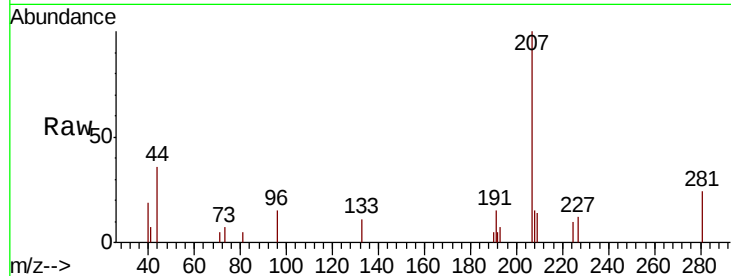




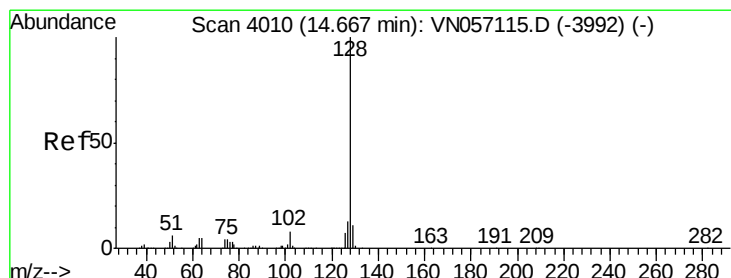
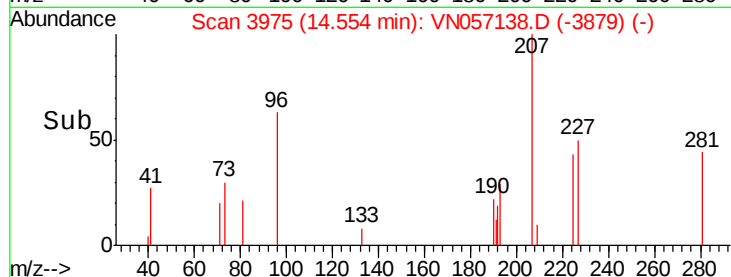
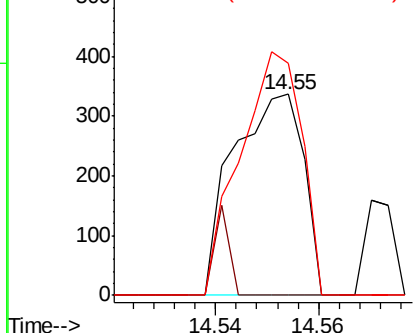
#94
Hexachlorobutadiene
Concen: Below Cal
RT: 14.55 min Scan# 3975
Delta R.T. 0.01 min
Lab File: VN057138.D
Acq: 9 Aug 2019 11:47

Instrument :
MSVOA_N
ClientSampled :
FB_080719

Tgt Ion: 225 Resp: 317
Ion Ratio Lower Upper
225 100
223 9.1 30.9 92.8#
227 106.0 32.4 97.0#

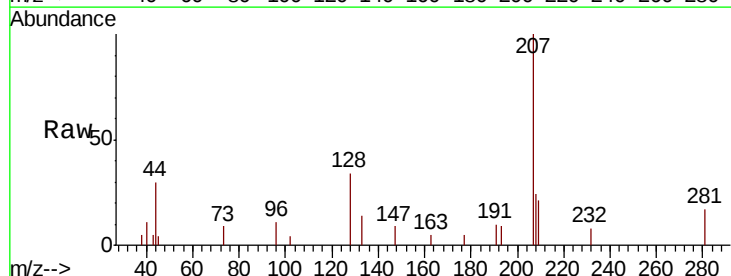


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

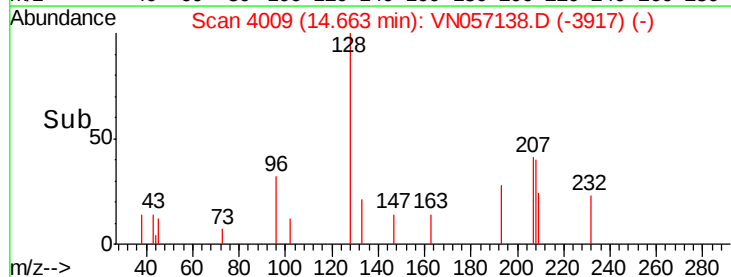
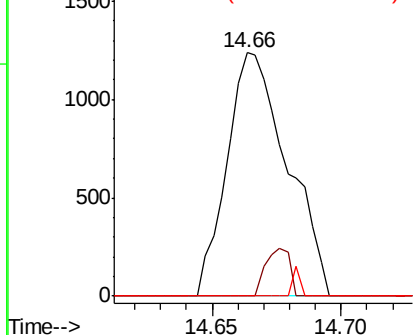


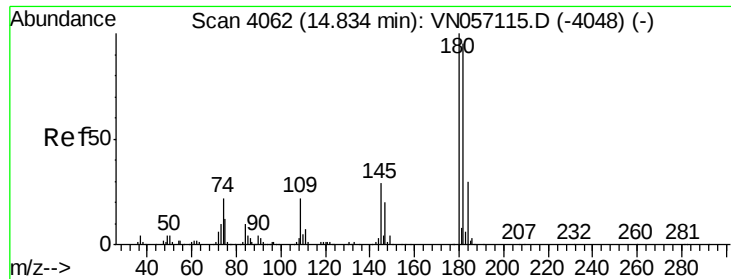
#95
Naphthalene
Concen: 3.009 ug/l
RT: 14.66 min Scan# 4009
Delta R.T. -0.00 min
Lab File: VN057138.D
Acq: 9 Aug 2019 11:47

Tgt Ion: 128 Resp: 2023
Ion Ratio Lower Upper
128 100
127 7.9 10.3 15.5#
129 1.4 8.8 13.2#



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

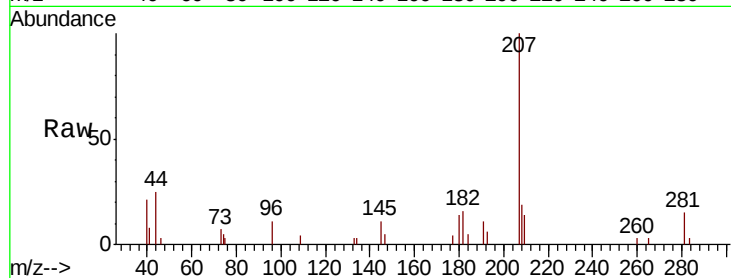




#96
 1,2,3-Trichlorobenzene
 Concen: 5.937 ug/l
 RT: 14.84 min Scan# 4063
 Delta R.T. 0.00 min
 Lab File: VN057138.D
 Acq: 9 Aug 2019 11:47

Instrument :
 MSVOA_N
 ClientSampleId :
 FB_080719

Tgt Ion:180 Resp: 1388
 Ion Ratio Lower Upper
 180 100
 182 101.4 48.3 144.8
 145 40.8 14.9 44.5



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

