

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN080919\
 Data File : VN057152.D
 Acq On : 9 Aug 2019 17:33
 Operator : JC/SP
 Sample : I.BLK
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Quant Time: Aug 10 02:14:04 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

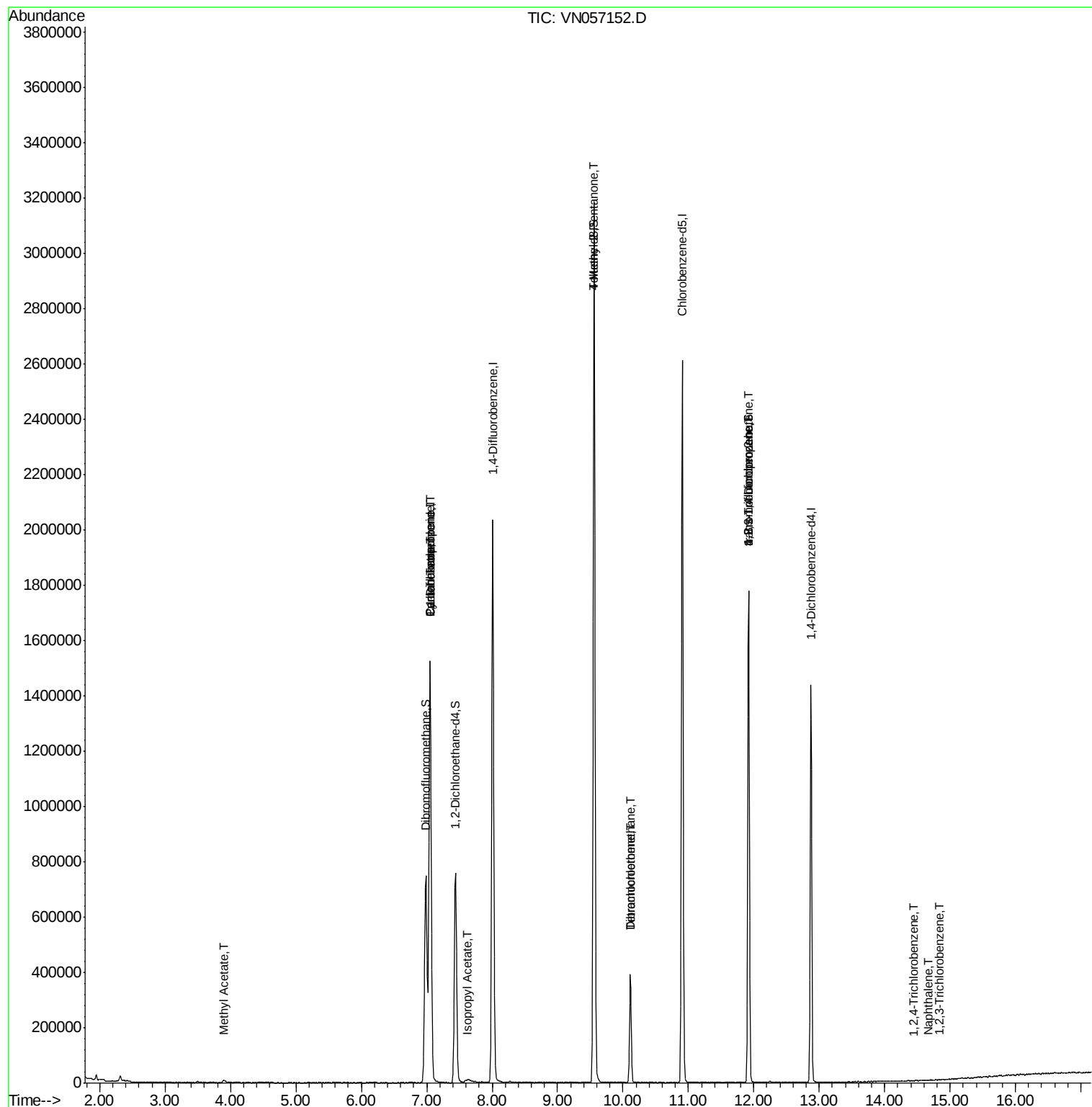
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1465047	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	2036412	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.91	117	1690716	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	431886	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	682342	45.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.58%	
35) Dibromofluoromethane	6.99	113	615585	48.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.34%	
50) Toluene-d8	9.56	98	2361851	48.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.62%	
62) 4-Bromofluorobenzene	11.92	95	629538	39.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	79.92%	
Target Compounds						
					Qvalue	
18) Methyl Acetate	3.90	43	18429	0.712	ug/l	90
31) Cyclohexane	7.05	56	21242	0.972	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	84005	5.010	ug/l #	49
37) Ethyl Acetate	6.24	43	106	Below Cal	#	70
38) Carbon Tetrachloride	7.05	117	125624	7.189	ug/l #	16
43) Isopropyl Acetate	7.61	43	6738	0.286	ug/l #	51
51) 4-Methyl-2-Pentanone	9.56	43	9029	0.658	ug/l #	1
60) Dibromochloromethane	10.11	129	86562	6.362	ug/l #	11
64) Tetrachloroethene	10.11	164	100902	7.176	ug/l	97
73) Isopropylbenzene	11.77	105	162	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	11.91	83	107	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.92	75	286721	33.006	ug/l #	100
79) 2-Chlorotoluene	12.12	91	275	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	11.92	75	286721	97.614	ug/l #	14
83) tert-Butylbenzene	12.53	119	115	Below Cal	#	28
93) 1,2,4-Trichlorobenzene	14.45	180	30	5.934	ug/l #	81
95) Naphthalene	14.67	128	153	2.816	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.84	180	138	5.740	ug/l #	12

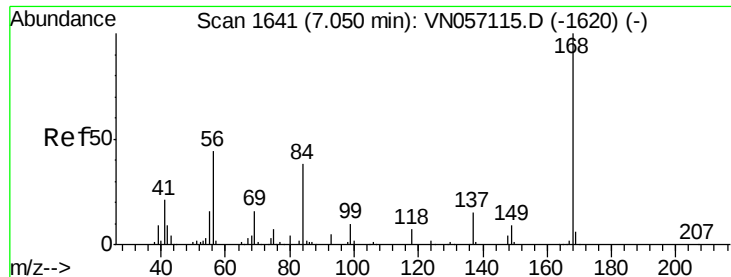
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057152.D

Acq: 9 Aug 2019 17:33

Instrument :

MSVOA_N

ClientSampleId :

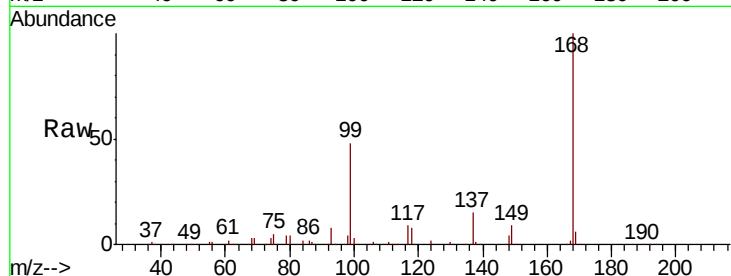
I.BLK

Tgt Ion:168 Resp: 1465047

Ion Ratio Lower Upper

168 100

99 47.7 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.05

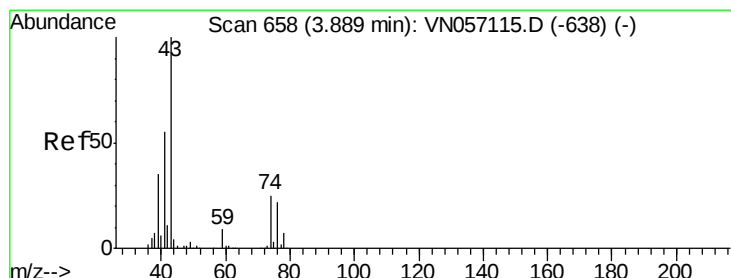
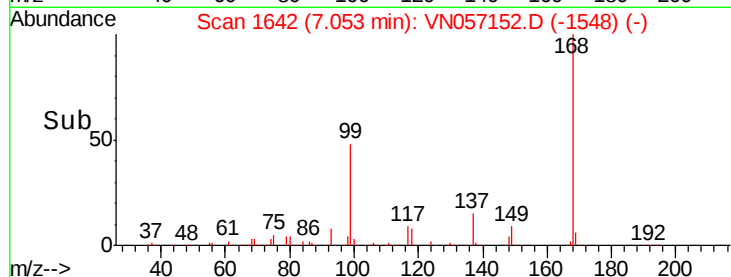
600000

400000

200000

0

Time--> 6.90 7.00 7.10 7.20



#18

Methyl Acetate

Concen: 0.712 ug/l

RT: 3.90 min Scan# 660

Delta R.T. 0.01 min

Lab File: VN057152.D

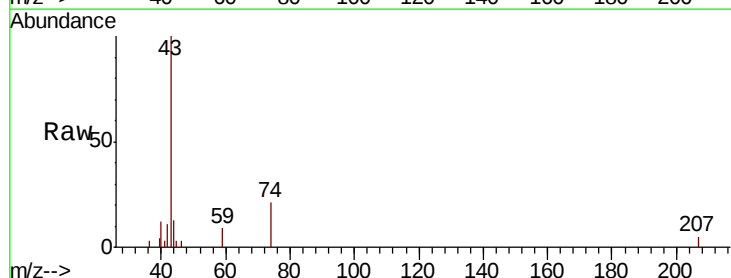
Acq: 9 Aug 2019 17:33

Tgt Ion: 43 Resp: 18429

Ion Ratio Lower Upper

43 100

74 20.4 20.2 30.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 74.00 (73.70 to 74.70): VN

3.90

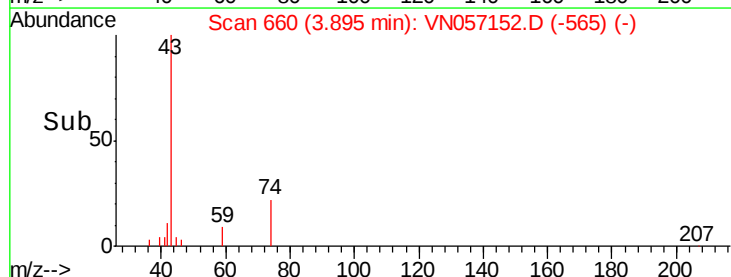
6000

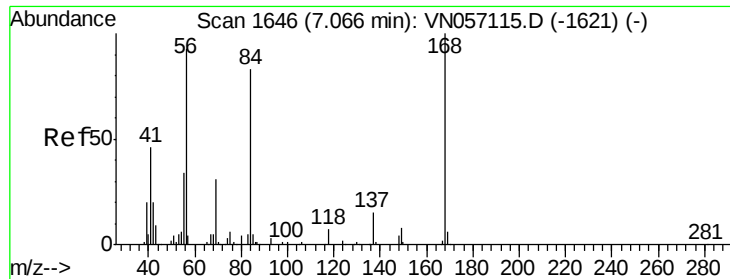
4000

2000

0

Time--> 3.80 3.85 3.90 3.95 4.00

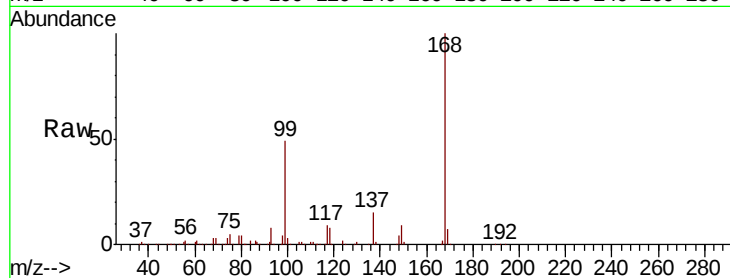




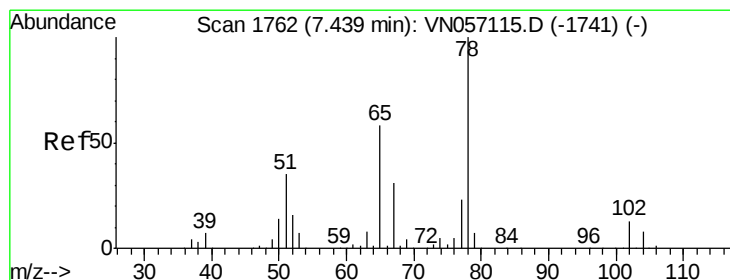
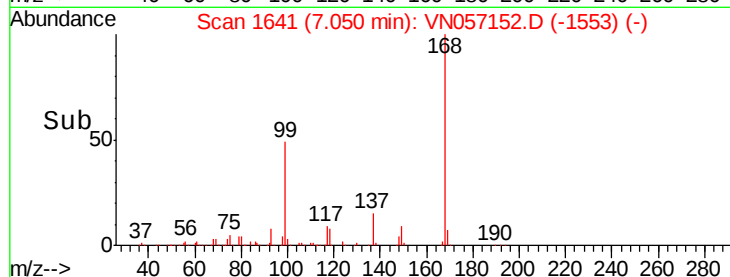
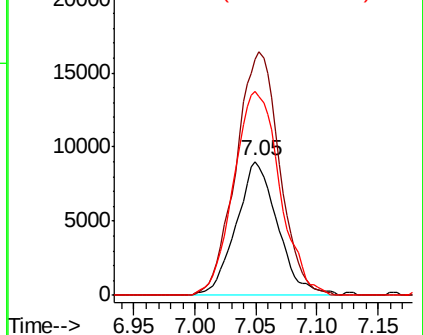
#31
Cyclohexane
Concen: 0.972 ug/l
RT: 7.05 min Scan# 1641
Delta R.T. -0.02 min
Lab File: VN057152.D
Acq: 9 Aug 2019 17:33

Instrument :
MSVOA_N
ClientSampled :
I.BLK

Tgt Ion: 56 Resp: 21242
Ion Ratio Lower Upper
56 100
69 176.4 26.9 40.3#
84 151.9 71.9 107.9#

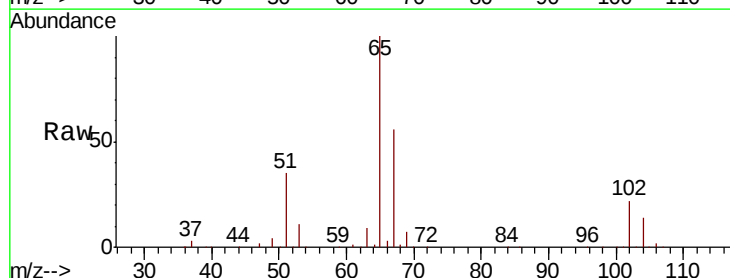


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

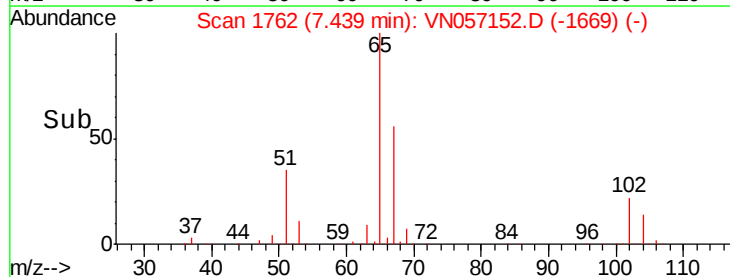
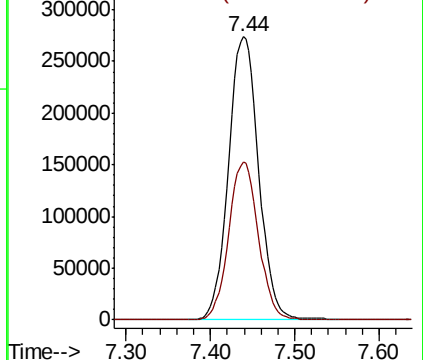


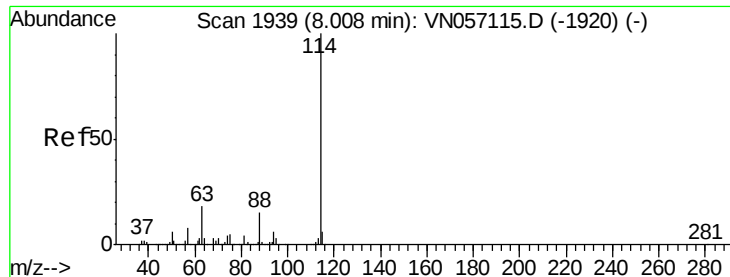
#33
1,2-Dichloroethane-d4
Concen: 45.287 ug/l
RT: 7.44 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VN057152.D
Acq: 9 Aug 2019 17:33

Tgt Ion: 65 Resp: 682342
Ion Ratio Lower Upper
65 100
67 54.7 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. -0.00 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

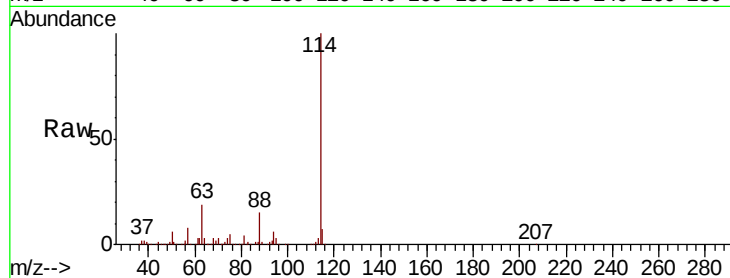
Tgt Ion:114 Resp: 2036412

Ion Ratio Lower Upper

114 100

63 18.8 0.0 36.2

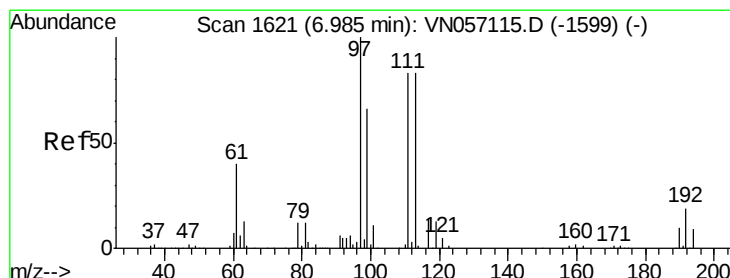
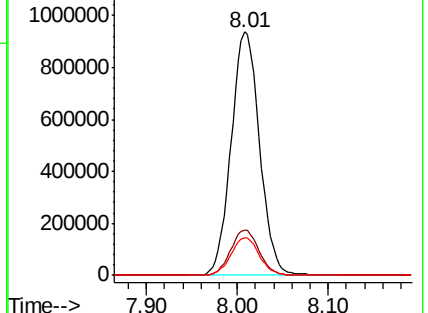
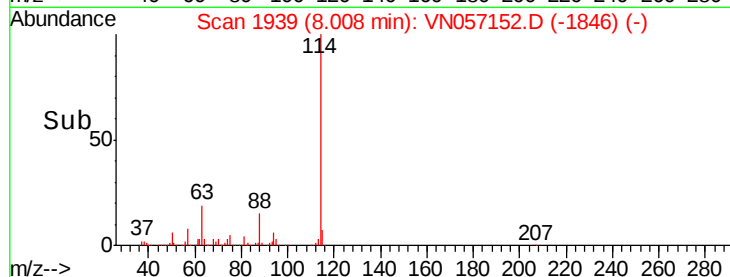
88 15.3 0.0 30.0



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: 48.172 ug/l

RT: 6.99 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

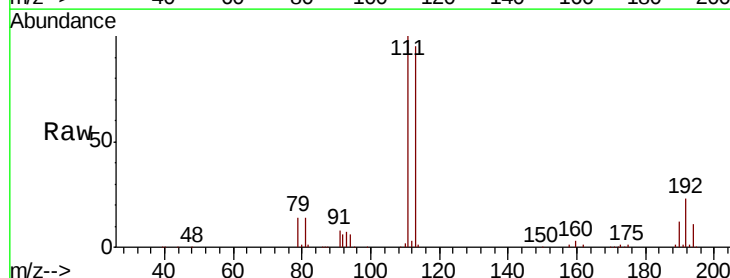
Tgt Ion:113 Resp: 615585

Ion Ratio Lower Upper

113 100

111 103.3 81.3 121.9

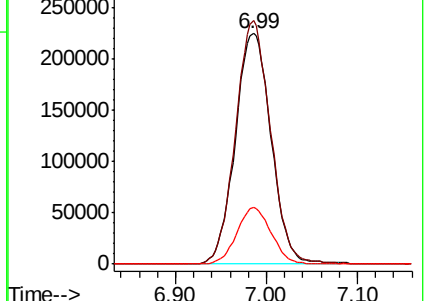
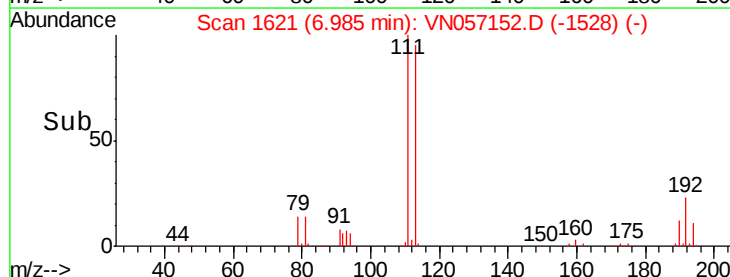
192 23.6 19.0 28.4

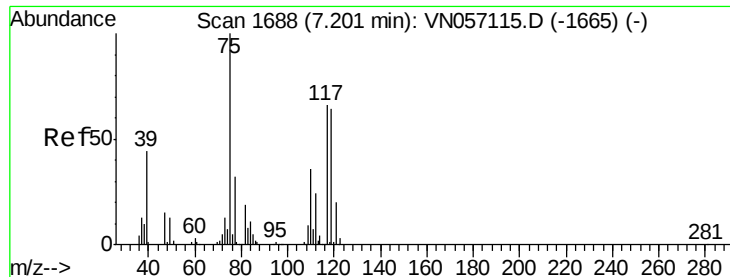


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.010 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. -0.15 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

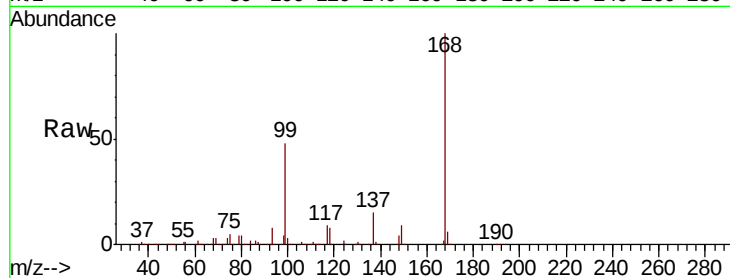
Tgt Ion: 75 Resp: 84005

Ion Ratio Lower Upper

75 100

110 9.6 18.7 56.1#

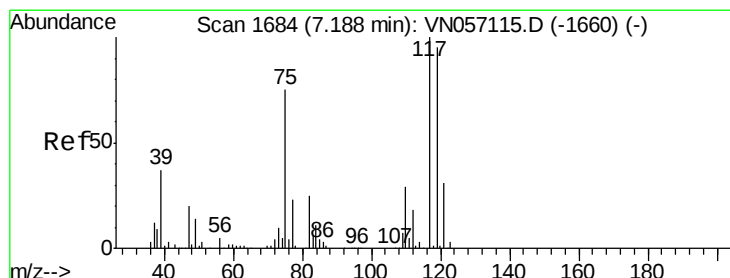
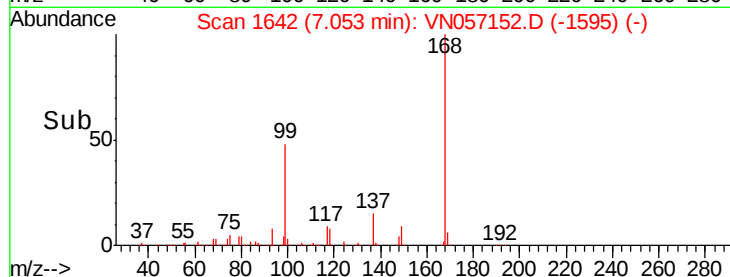
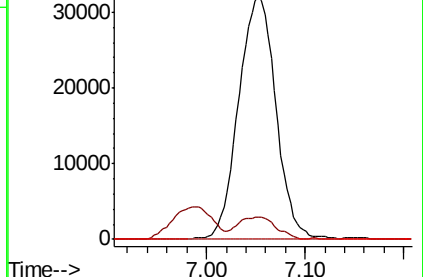
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN057115.D (-1665) (-)

Ion 109.90 (109.60 to 110.60): VN057115.D (-1665) (-)

Ion 76.90 (76.60 to 77.60): VN057115.D (-1665) (-)



#38

Carbon Tetrachloride

Concen: 7.189 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. -0.14 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

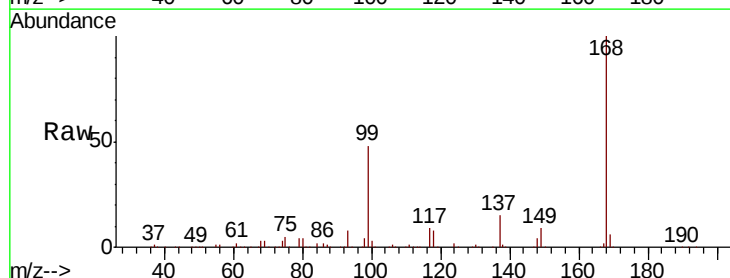
Tgt Ion: 117 Resp: 125624

Ion Ratio Lower Upper

117 100

119 4.8 75.8 113.6#

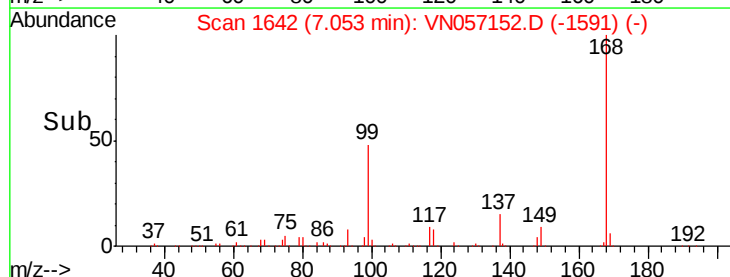
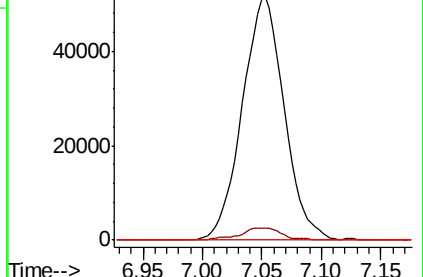
121 0.0 24.4 36.6#

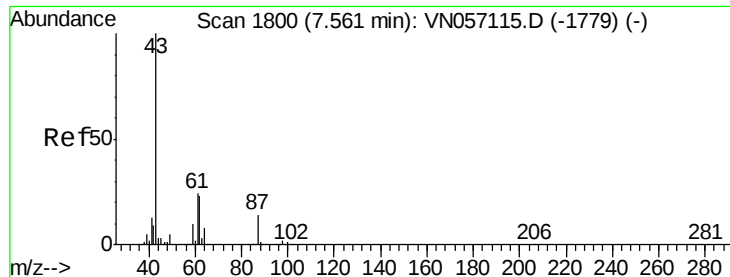


Abundance Ion 116.80 (116.50 to 117.50): VN057115.D (-1660) (-)

Ion 118.80 (118.50 to 119.50): VN057115.D (-1660) (-)

Ion 120.80 (120.50 to 121.50): VN057115.D (-1660) (-)





#43

Isopropyl Acetate

Concen: 0.286 ug/l

RT: 7.61 min Scan# 1816

Delta R.T. 0.05 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

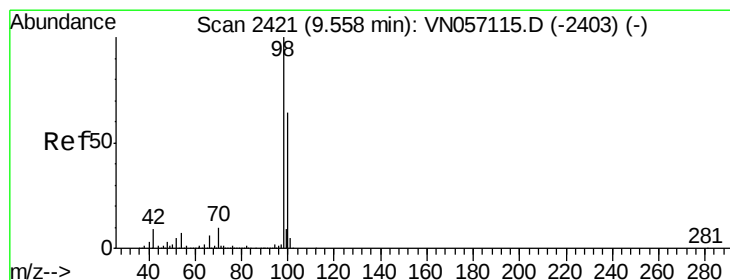
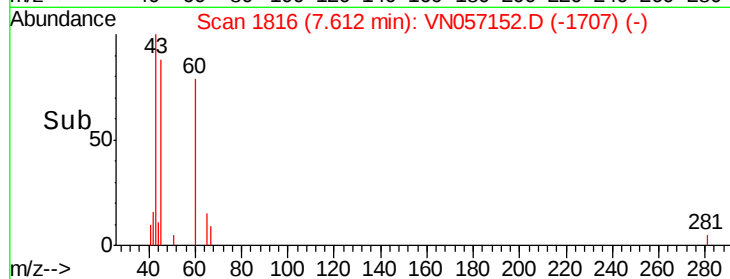
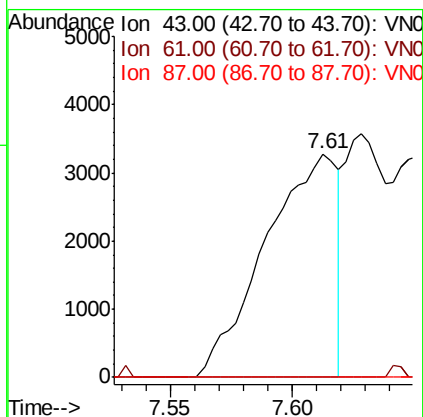
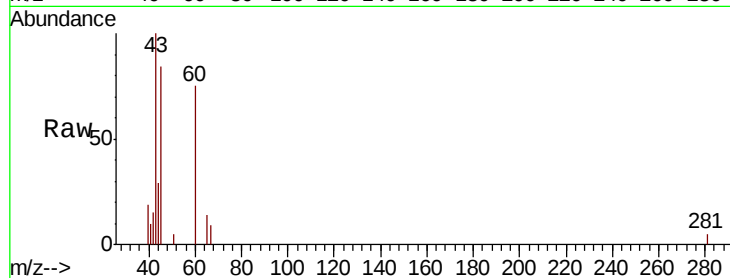
Tgt Ion: 43 Resp: 6738

Ion Ratio Lower Upper

43 100

61 0.0 24.2 36.2#

87 0.0 11.8 17.8#



#50

Toluene-d8

Concen: 48.310 ug/l

RT: 9.56 min Scan# 2421

Delta R.T. -0.00 min

Lab File: VN057152.D

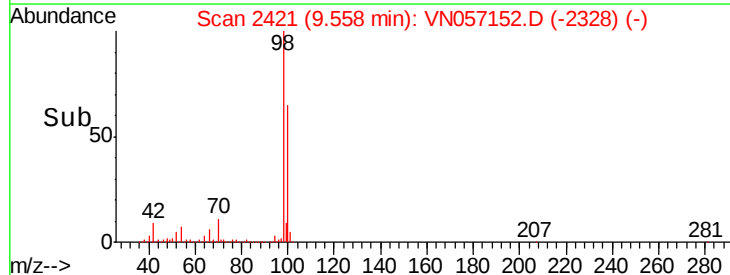
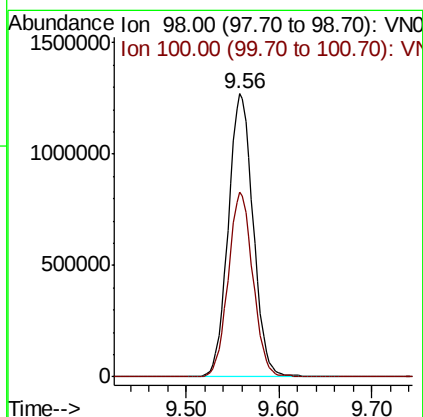
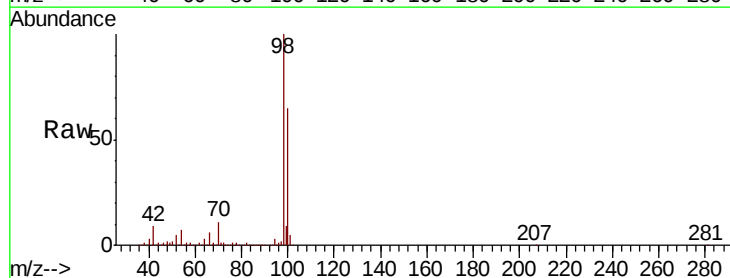
Acq: 9 Aug 2019 17:33

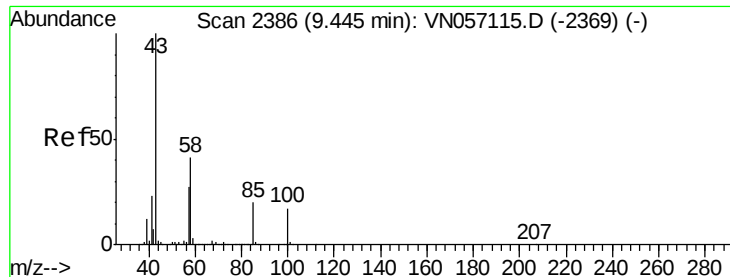
Tgt Ion: 98 Resp: 2361851

Ion Ratio Lower Upper

98 100

100 64.8 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 0.658 ug/l

RT: 9.56 min Scan# 2421

Delta R.T. 0.11 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

Instrument :

MSVOA_N

ClientSampleId :

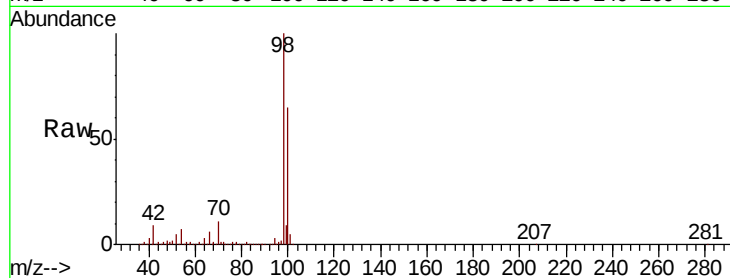
I.BLK

Tgt Ion: 43 Resp: 9029

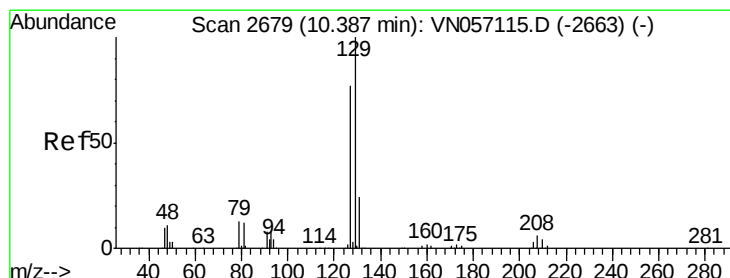
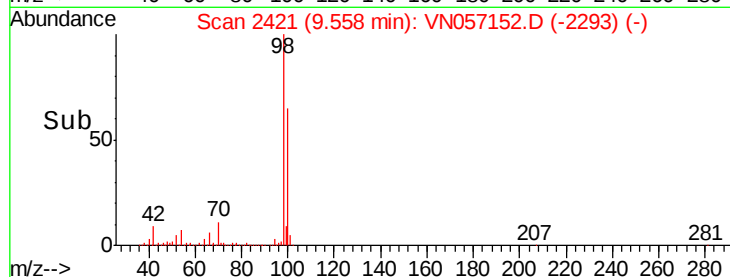
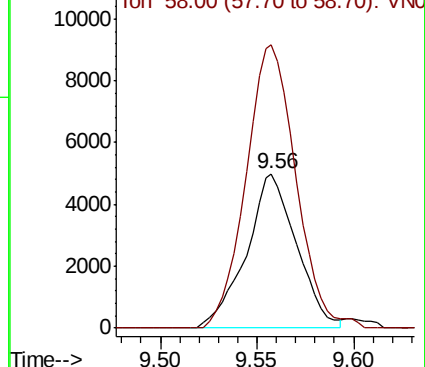
Ion Ratio Lower Upper

43 100

58 181.8 33.2 49.8#



Abundance Ion 43.00 (42.70 to 43.70): VN057115.D (-2369) (-)



#60

Dibromochloromethane

Concen: 6.362 ug/l

RT: 10.11 min Scan# 2594

Delta R.T. -0.27 min

Lab File: VN057152.D

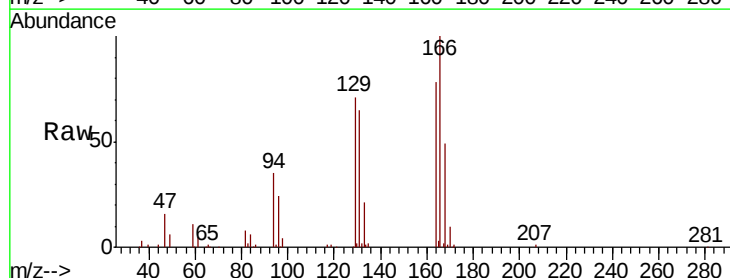
Acq: 9 Aug 2019 17:33

Tgt Ion: 129 Resp: 86562

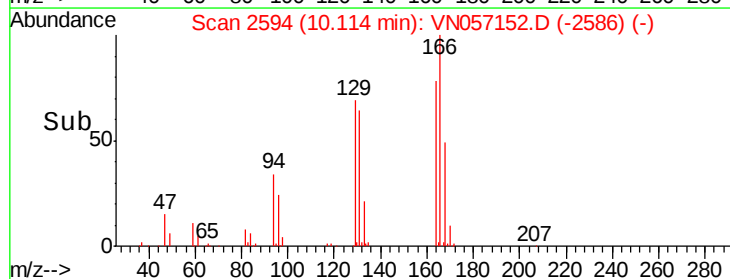
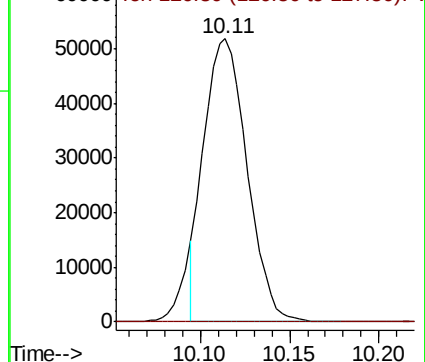
Ion Ratio Lower Upper

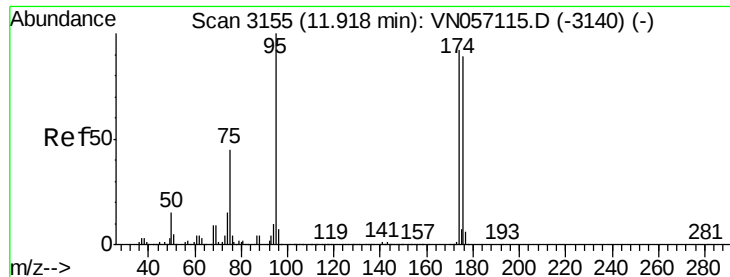
129 100

127 0.0 38.6 116.0#



Abundance Ion 128.80 (128.50 to 129.50): VN057115.D (-2663) (-)





#62

4-Bromofluorobenzene

Concen: 39.964 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

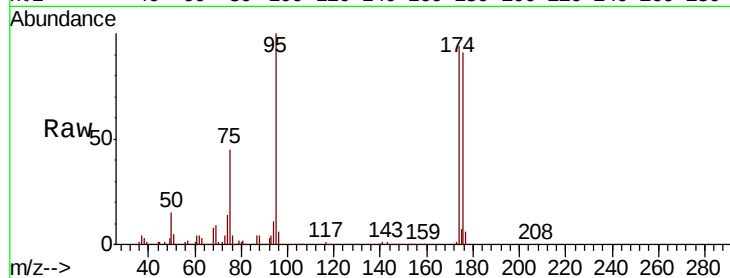
Tgt Ion: 95 Resp: 629538

Ion Ratio Lower Upper

95 100

174 94.4 0.0 185.0

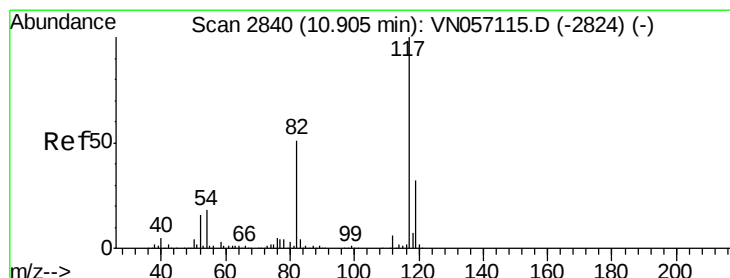
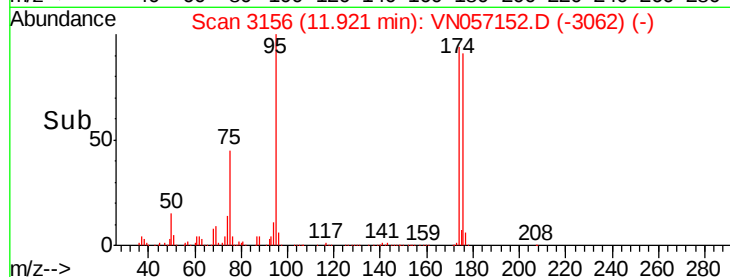
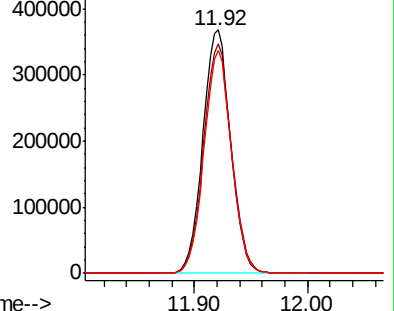
176 90.2 0.0 181.2



Abundance Ion 94.90 (94.60 to 95.60): VN057115.D (-3140) (-)

Ion 173.80 (173.50 to 174.50): VN057115.D (-3140) (-)

Ion 175.80 (175.50 to 176.50): VN057115.D (-3140) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.91 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

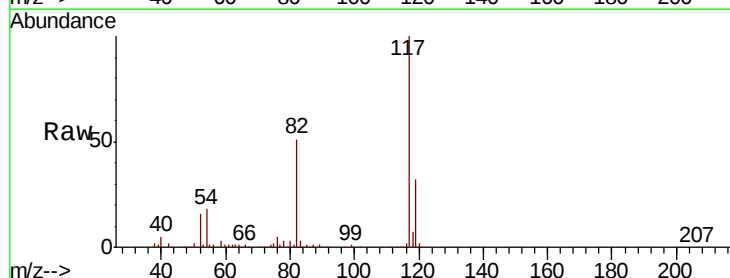
Tgt Ion: 117 Resp: 1690716

Ion Ratio Lower Upper

117 100

82 51.5 40.8 61.2

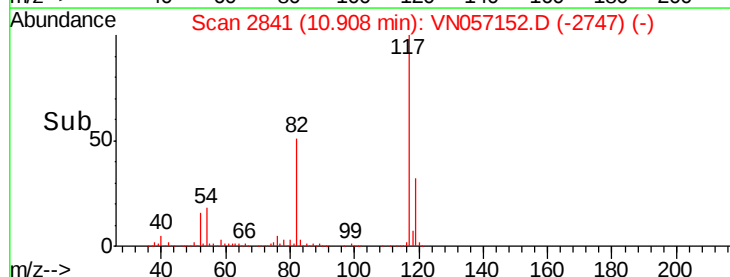
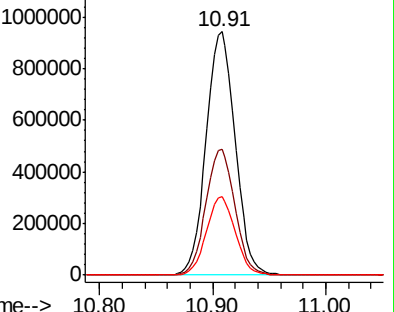
119 32.1 25.7 38.5

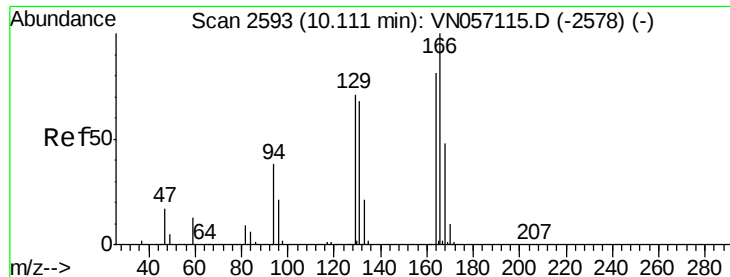


Abundance Ion 116.90 (116.60 to 117.60): VN057115.D (-2824) (-)

Ion 82.00 (81.70 to 82.70): VN057115.D (-2824) (-)

Ion 118.90 (118.60 to 119.60): VN057115.D (-2824) (-)





#64

Tetrachloroethene

Concen: 7.176 ug/l

RT: 10.11 min Scan# 2594

Delta R.T. 0.00 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

Tgt Ion:164 Resp: 100902

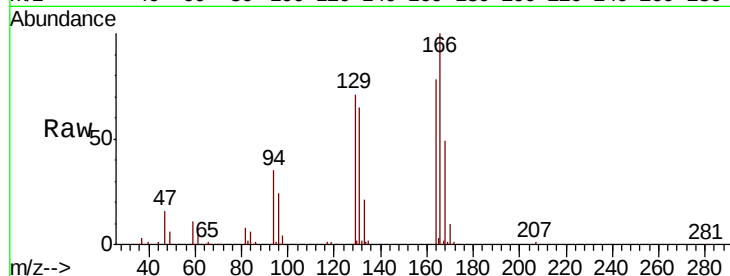
Ion Ratio Lower Upper

164 100

166 128.7 98.3 147.5

129 90.8 69.8 104.6

131 83.8 66.8 100.2

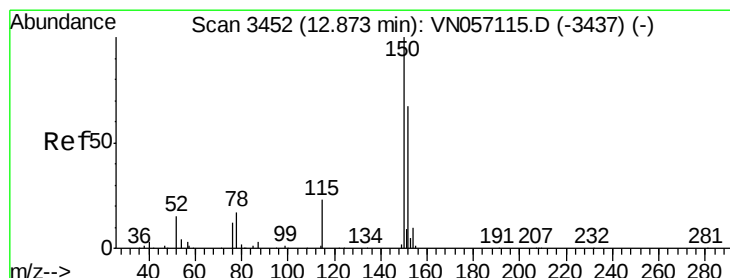
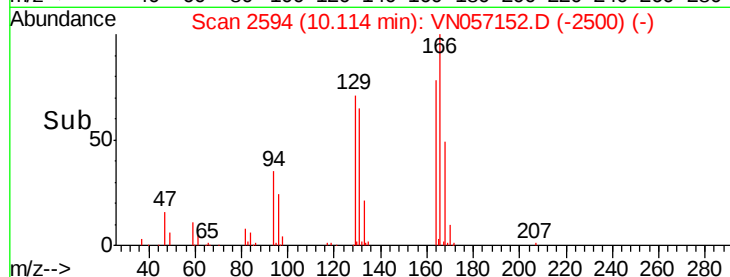
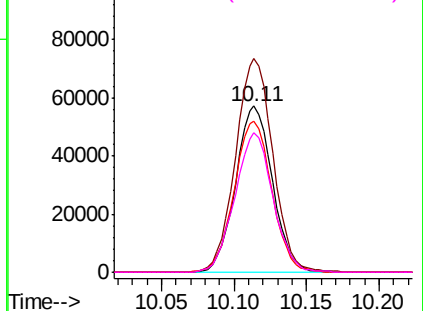


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.88 min Scan# 3453

Delta R.T. 0.00 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

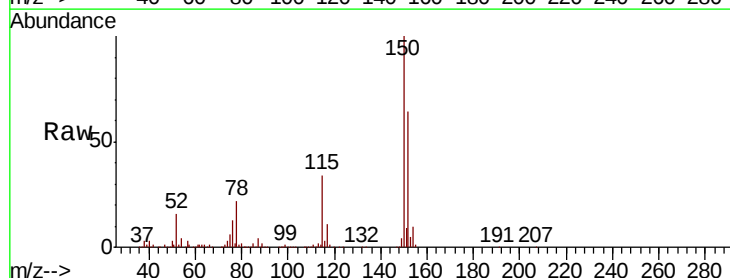
Tgt Ion:152 Resp: 431886

Ion Ratio Lower Upper

152 100

115 54.5 27.5 82.5

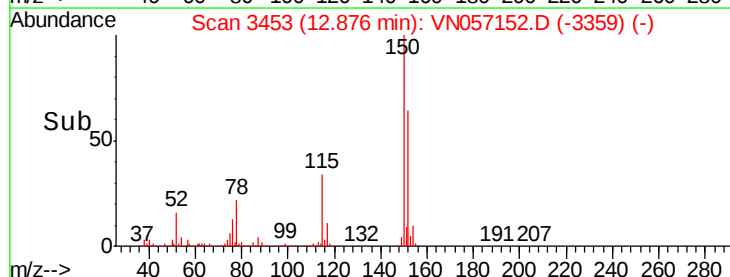
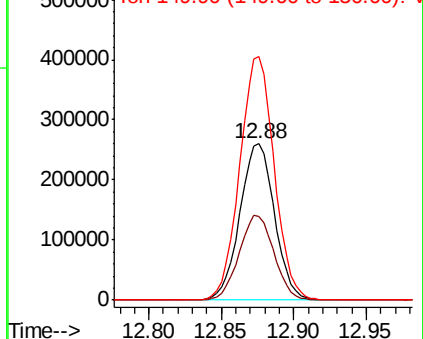
150 155.2 0.0 341.6

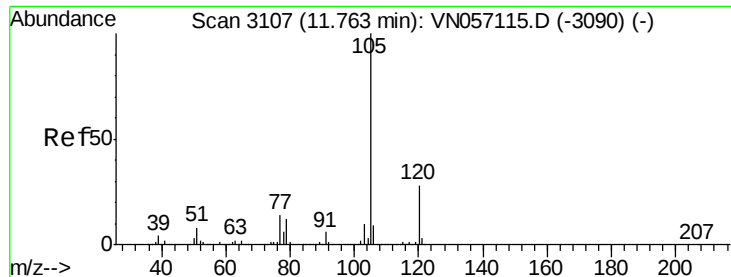


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 11.77 min Scan# 3109

Delta R.T. 0.01 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

Instrument :

MSVOA_N

ClientSampled :

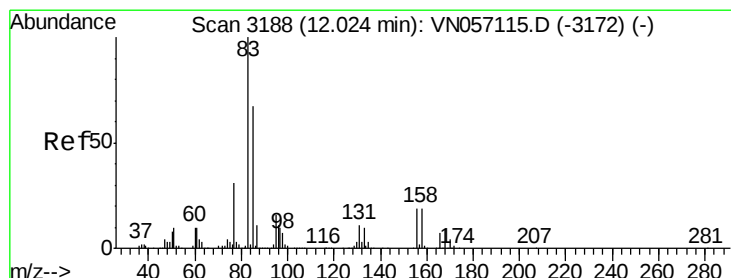
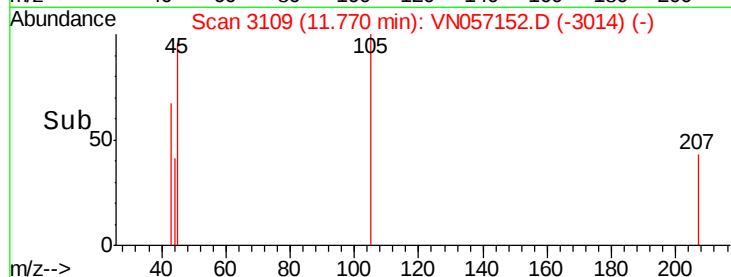
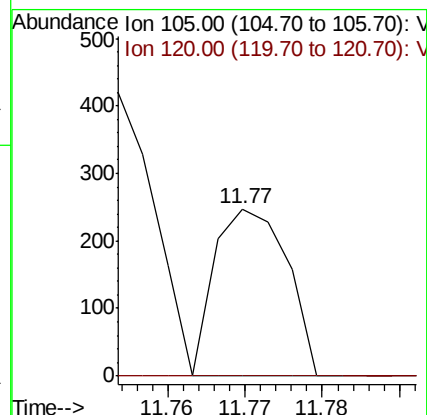
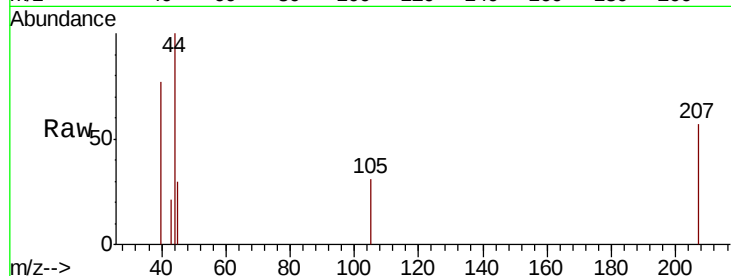
I.BLK

Tgt Ion: 105 Resp: 162

Ion Ratio Lower Upper

105 100

120 0.0 13.7 41.0#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.91 min Scan# 3154

Delta R.T. -0.11 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

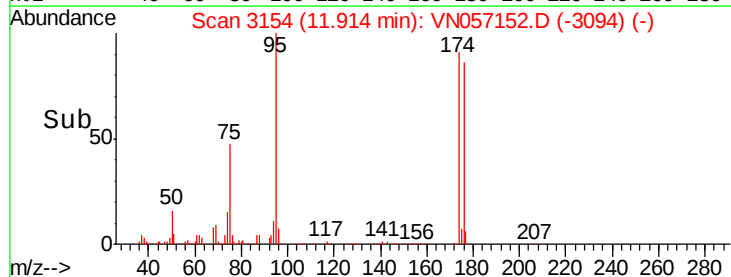
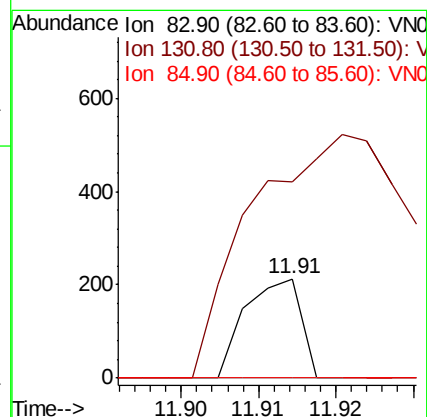
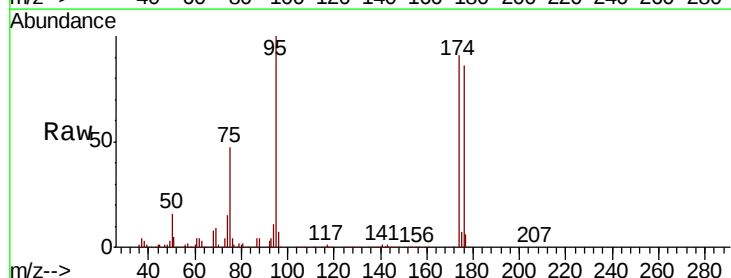
Tgt Ion: 83 Resp: 107

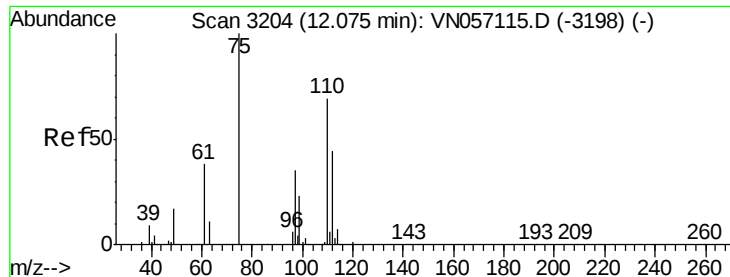
Ion Ratio Lower Upper

83 100

131 691.6 5.5 16.4#

85 0.0 32.4 97.0#





#76

1,2,3-Trichloropropane

Concen: 33.006 ug/l

RT: 11.92 min Scan# 3155

Delta R.T. -0.16 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

Instrument :

MSVOA_N

ClientSampled :

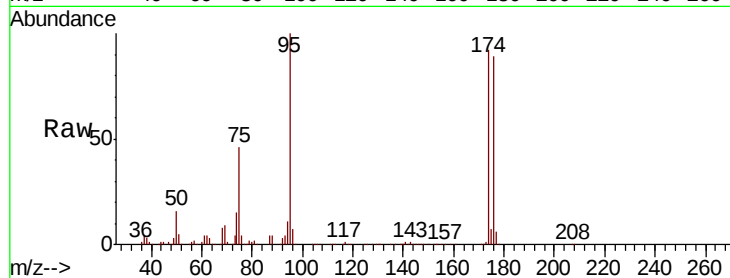
I.BLK

Tgt Ion: 75 Resp: 286721

Ion Ratio Lower Upper

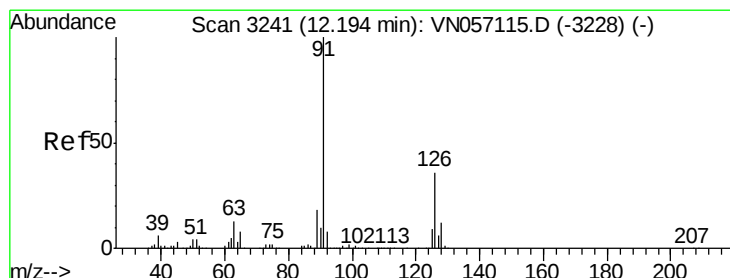
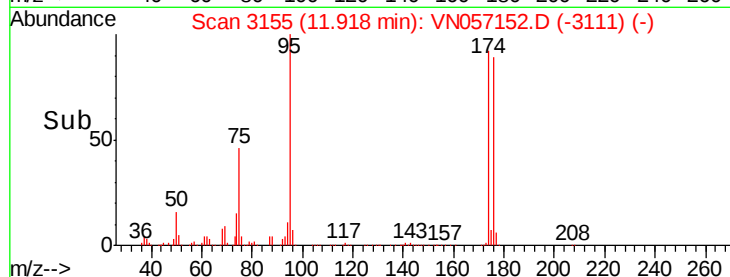
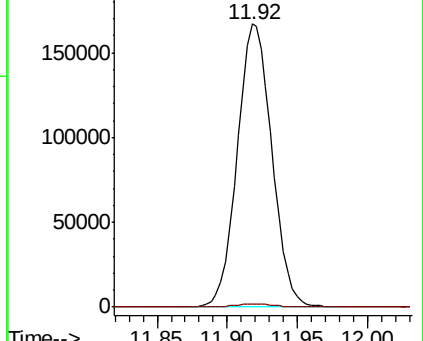
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.12 min Scan# 3217

Delta R.T. -0.08 min

Lab File: VN057152.D

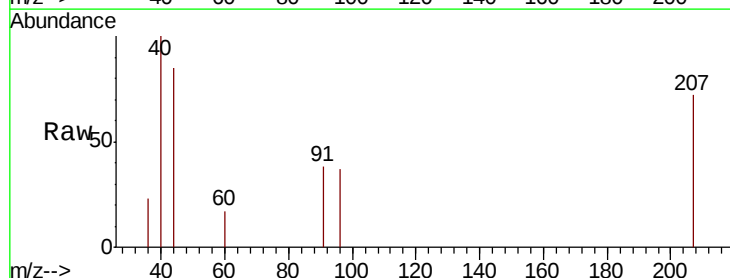
Acq: 9 Aug 2019 17:33

Tgt Ion: 91 Resp: 275

Ion Ratio Lower Upper

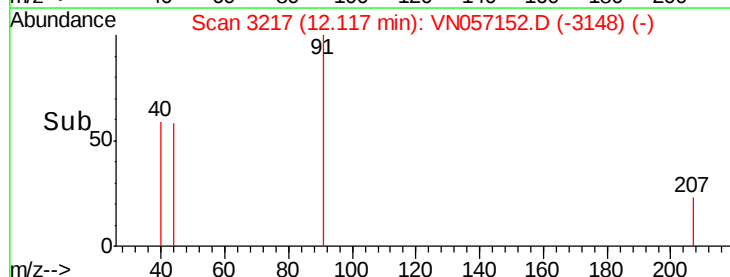
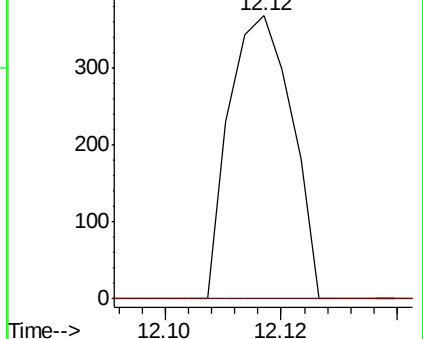
91 100

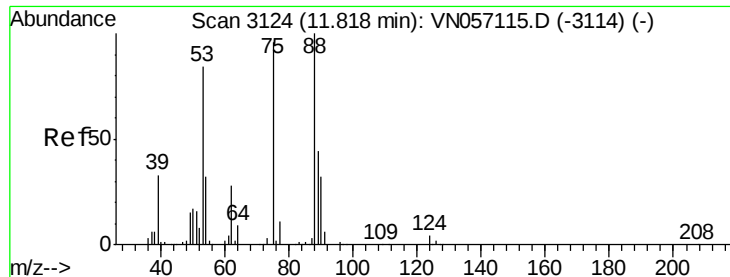
126 0.0 18.1 54.3#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 97.614 ug/l

RT: 11.92 min Scan# 3155

Delta R.T. 0.10 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

Instrument :

MSVOA_N

ClientSampled :

I.BLK

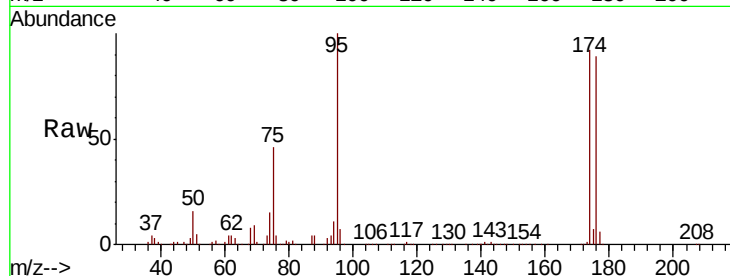
Tgt Ion: 75 Resp: 286721

Ion Ratio Lower Upper

75 100

53 0.0 70.6 106.0#

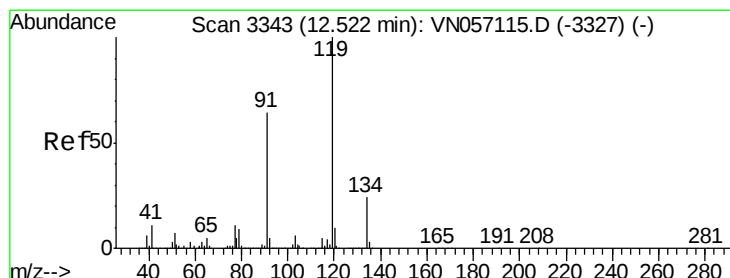
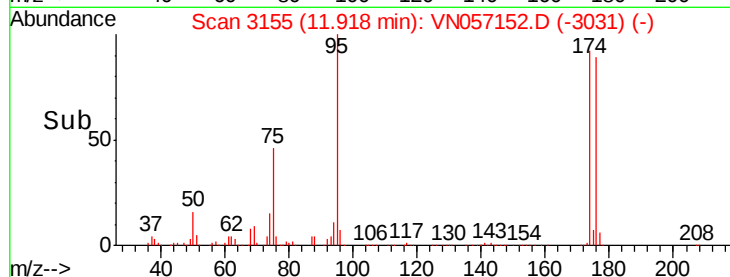
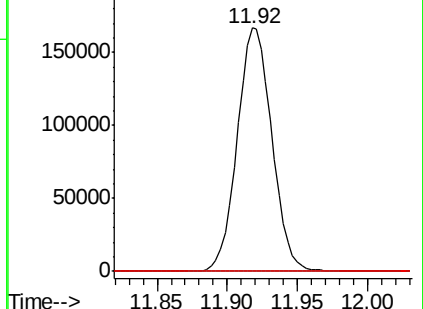
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN057115.D (-3114) (-)

Ion 53.00 (52.70 to 53.70): VN057115.D (-3114) (-)

Ion 88.90 (88.60 to 89.60): VN057115.D (-3114) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.53 min Scan# 3346

Delta R.T. 0.01 min

Lab File: VN057152.D

Acq: 9 Aug 2019 17:33

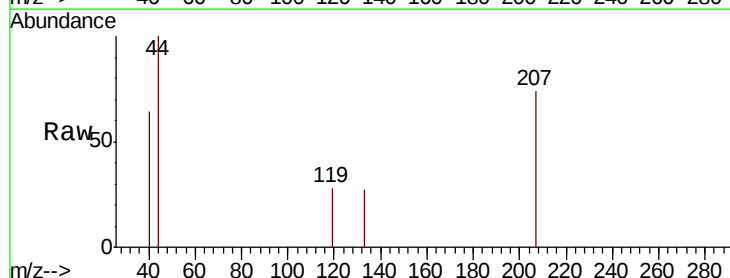
Tgt Ion: 119 Resp: 115

Ion Ratio Lower Upper

119 100

91 0.0 31.4 94.2#

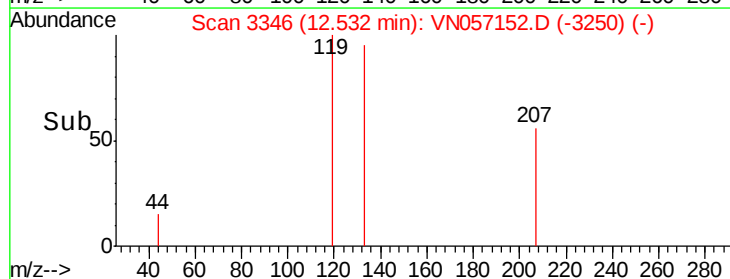
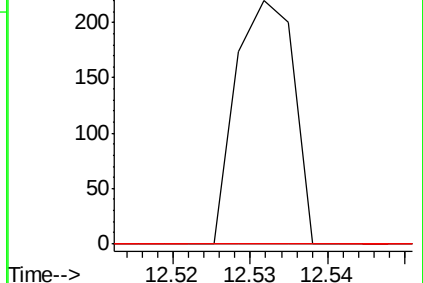
134 0.0 13.2 39.6#

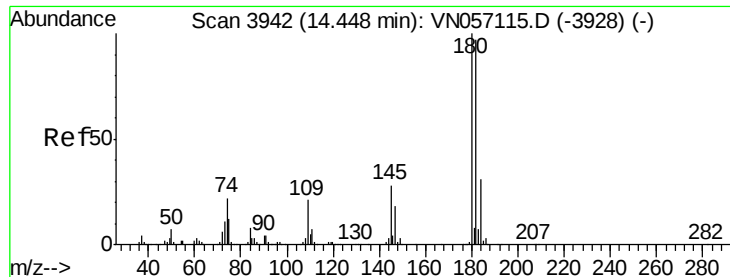


Abundance Ion 119.00 (118.70 to 119.70): VN057115.D (-3327) (-)

Ion 91.00 (90.70 to 91.70): VN057115.D (-3327) (-)

Ion 134.00 (133.70 to 134.70): VN057115.D (-3327) (-)

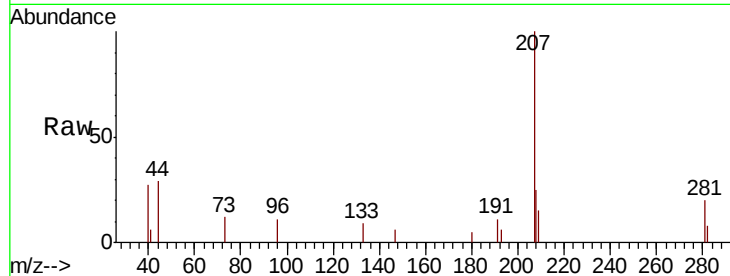




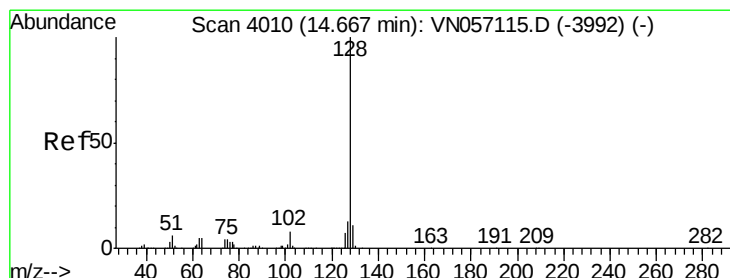
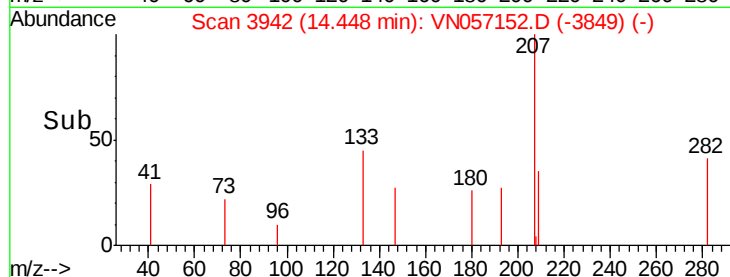
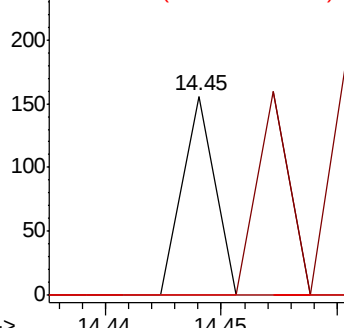
#93
 1,2,4-Trichlorobenzene
 Concen: 5.934 ug/l
 RT: 14.45 min Scan# 3942
 Delta R.T. 0.00 min
 Lab File: VN057152.D
 Acq: 9 Aug 2019 17:33

Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

Tgt Ion:180 Resp: 30
 Ion Ratio Lower Upper
 180 100
 182 103.3 47.5 142.6
 145 0.0 14.1 42.2#

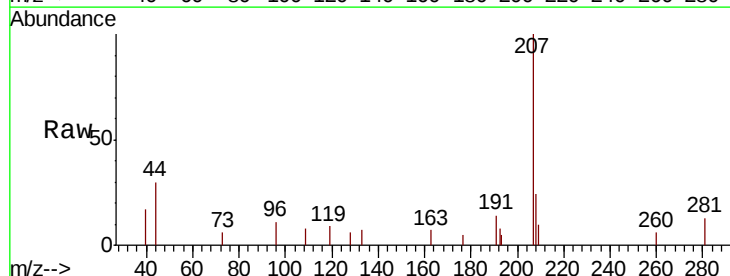


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

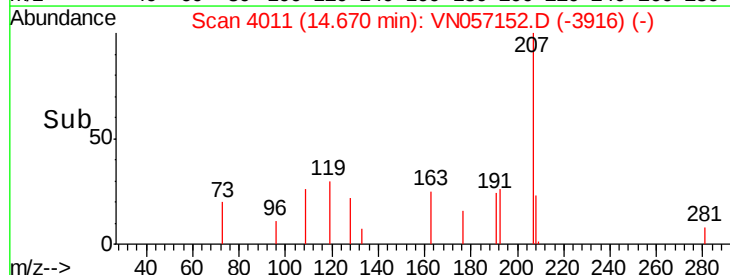
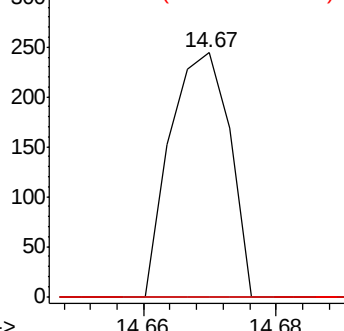


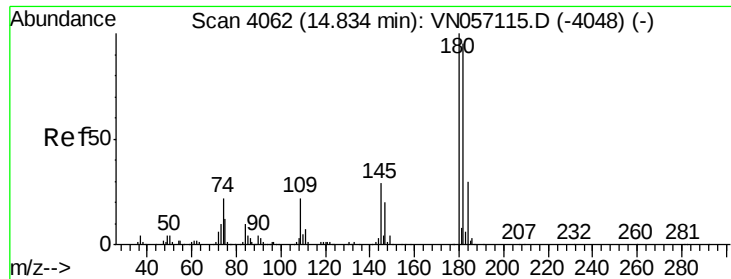
#95
 Naphthalene
 Concen: 2.816 ug/l
 RT: 14.67 min Scan# 4011
 Delta R.T. 0.00 min
 Lab File: VN057152.D
 Acq: 9 Aug 2019 17:33

Tgt Ion:128 Resp: 153
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 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

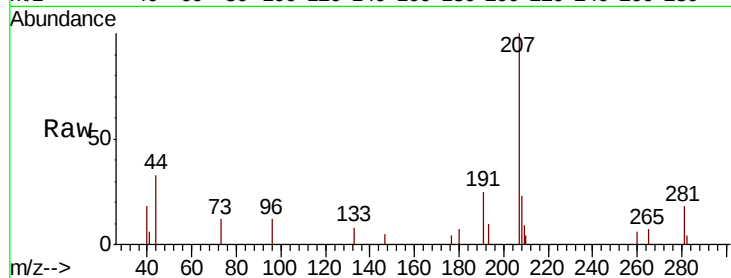




#96
 1,2,3-Trichlorobenzene
 Concen: 5.740 ug/l
 RT: 14.84 min Scan# 4064
 Delta R.T. 0.01 min
 Lab File: VN057152.D
 Acq: 9 Aug 2019 17:33

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.3	144.8#
145	0.0	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

