

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081919\
 Data File : VN057415.D
 Acq On : 19 Aug 2019 22:24
 Operator : JC/SP
 Sample : VN0819WBL02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBL02

Quant Time: Aug 20 08:47:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 15 11:33:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1049435	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1465776	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1207138	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	313999	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	484395	42.46	ug/l	0.00
Spiked Amount			Recovery	=	84.92%	
35) Dibromofluoromethane	7.58	113	446584	46.48	ug/l	0.00
Spiked Amount			Recovery	=	92.96%	
50) Toluene-d8	10.09	98	1668240	47.47	ug/l	0.00
Spiked Amount			Recovery	=	94.94%	
62) 4-Bromofluorobenzene	12.40	95	437442	35.22	ug/l	0.00
Spiked Amount			Recovery	=	70.44%	

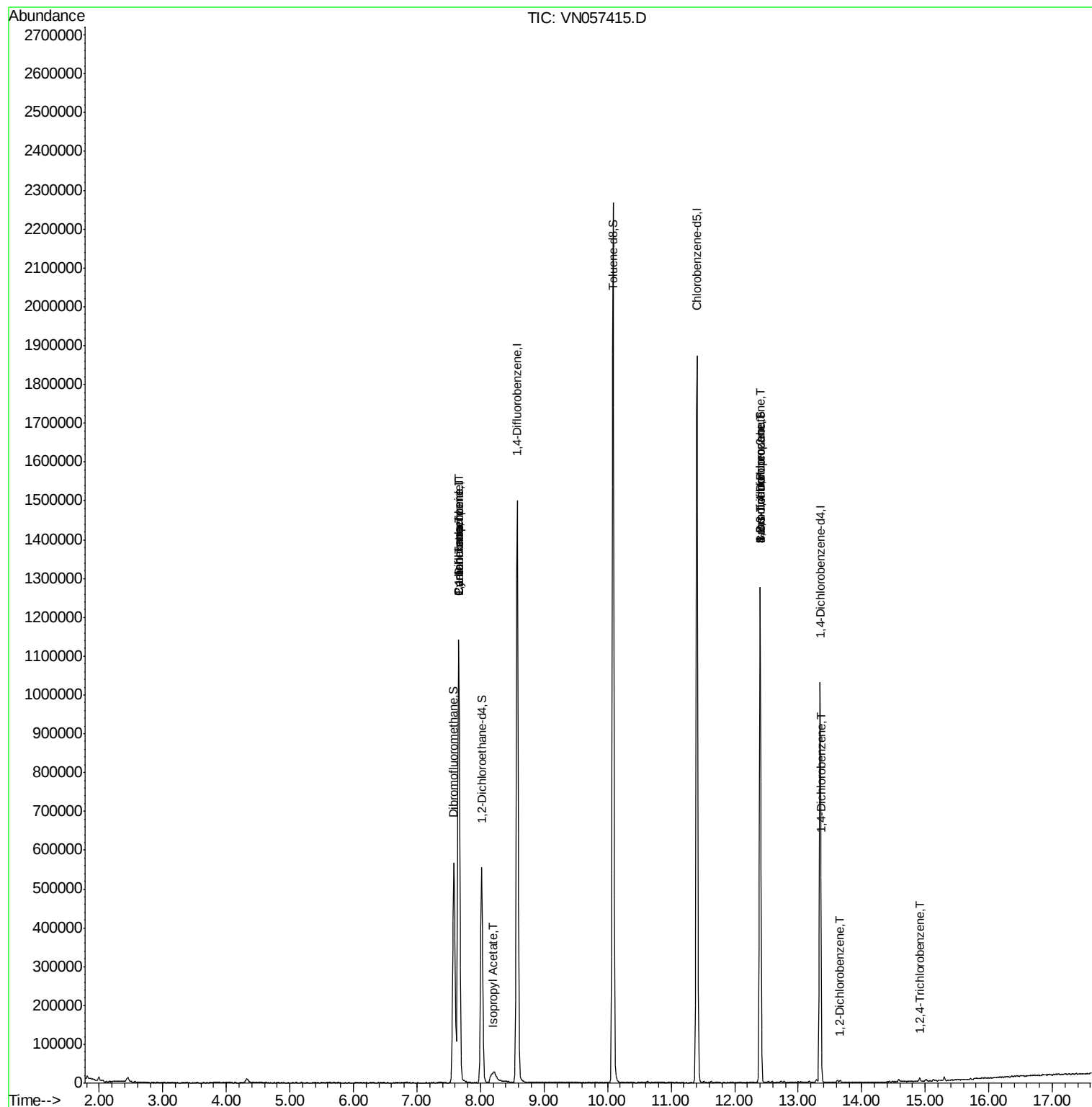
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
18) Methyl Acetate	4.32	43	18967	Below Cal		97
31) Cyclohexane	7.65	56	14602	0.939 ug/l #		1
36) 1,1-Dichloropropene	7.65	75	61484	4.751 ug/l #		48
38) Carbon Tetrachloride	7.66	117	89164	6.631 ug/l #		16
43) Isopropyl Acetate	8.20	43	53690	1.680 ug/l #		55
71) Bromoform	12.40	173	1600	0.215 ug/l #		1
73) Isopropylbenzene	12.25	105	1697	Below Cal		92
75) 1,1,2,2-Tetrachloroethane	12.51	83	156	Below Cal #		74
76) 1,2,3-Trichloropropane	12.40	75	201629	31.938 ug/l #		100
77) Bromobenzene	12.53	156	732	Below Cal		91
79) 2-Chlorotoluene	12.67	91	1654	Below Cal		94
80) 1,3,5-Trimethylbenzene	12.73	105	1851	Below Cal		93
81) trans-1,4-Dichloro-2-buten	12.40	75	201629	78.300 ug/l #		15
83) tert-Butylbenzene	12.99	119	1427	Below Cal		94
85) sec-Butylbenzene	13.17	105	2716	Below Cal		100
88) 1,4-Dichlorobenzene	13.37	146	2424	0.232 ug/l #		27
91) 1,2-Dichlorobenzene	13.66	146	2612	0.255 ug/l		84
93) 1,2,4-Trichlorobenzene	14.91	180	3078	6.026 ug/l		95
94) Hexachlorobutadiene	15.00	225	1543	Below Cal		94
95) Naphthalene	15.13	128	4080	Below Cal #		88
96) 1,2,3-Trichlorobenzene	15.29	180	3767	Below Cal		95

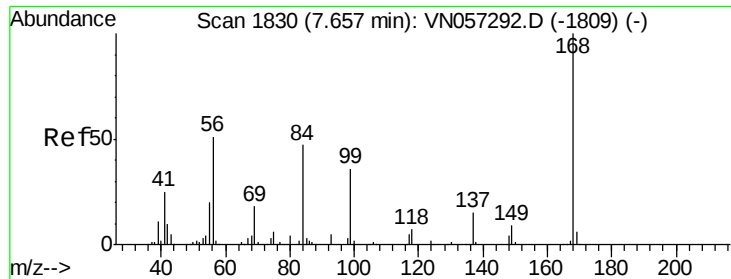
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Aug 15 11:33:14 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

Instrument :

MSVOA_N

ClientSampleId :

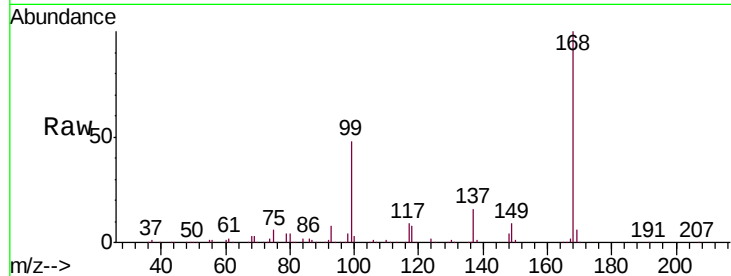
VN0819WBL02

Tgt Ion:168 Resp: 1049435

Ion Ratio Lower Upper

168 100

99 48.1 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

400000

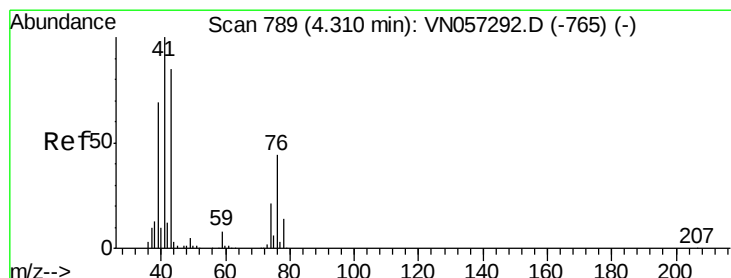
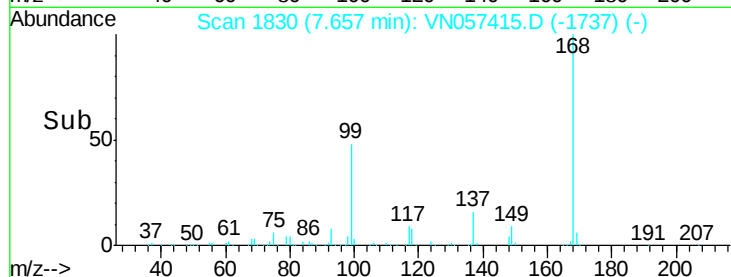
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.32 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN057415.D

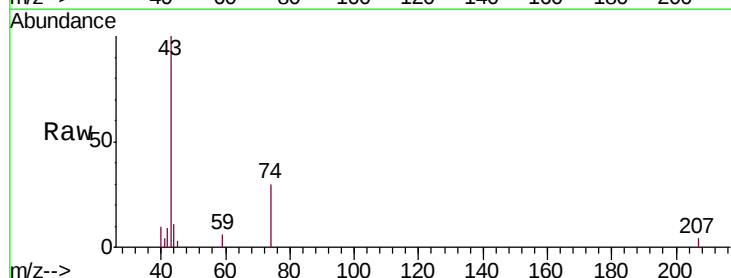
Acq: 19 Aug 2019 22:24

Tgt Ion: 43 Resp: 18967

Ion Ratio Lower Upper

43 100

74 26.5 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 74.00 (73.70 to 74.70): VN

4.32

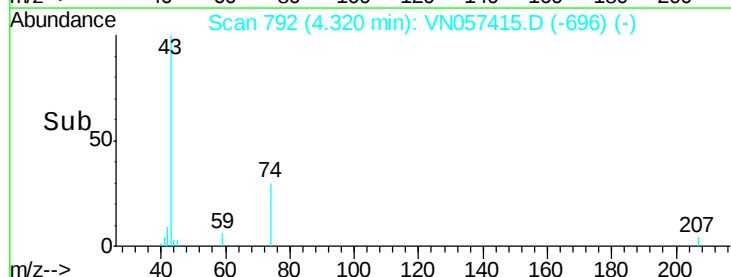
6000

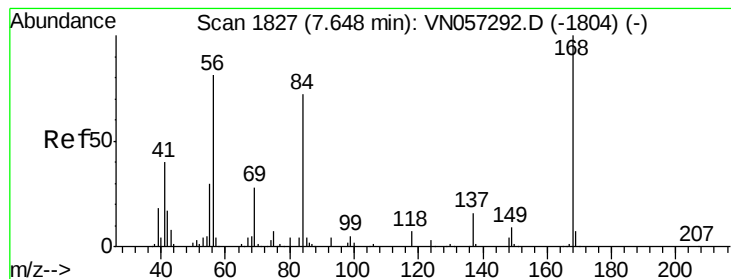
4000

2000

0

Time-->





#31

Cyclohexane

Concen: 0.939 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBL02

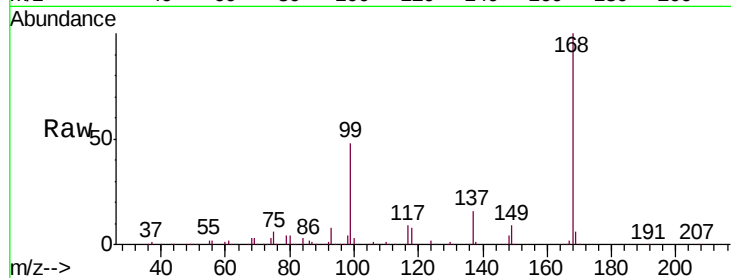
Tgt Ion: 56 Resp: 14602

Ion Ratio Lower Upper

56 100

69 195.4 27.3 40.9#

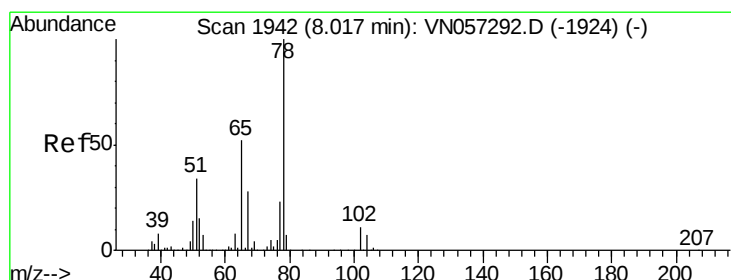
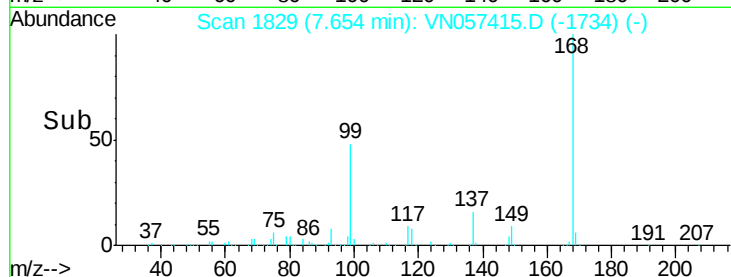
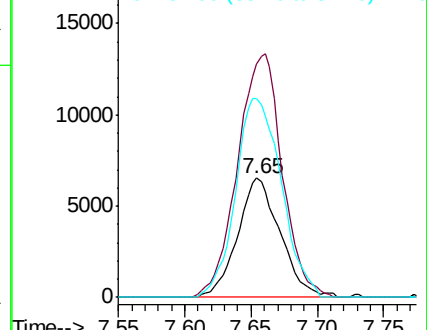
84 167.1 71.0 106.6#



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: 42.459 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.00 min

Lab File: VN057415.D

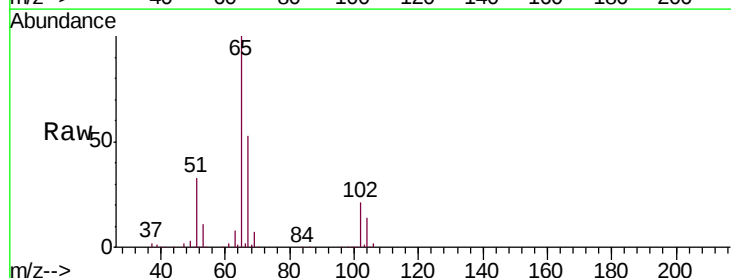
Acq: 19 Aug 2019 22:24

Tgt Ion: 65 Resp: 484395

Ion Ratio Lower Upper

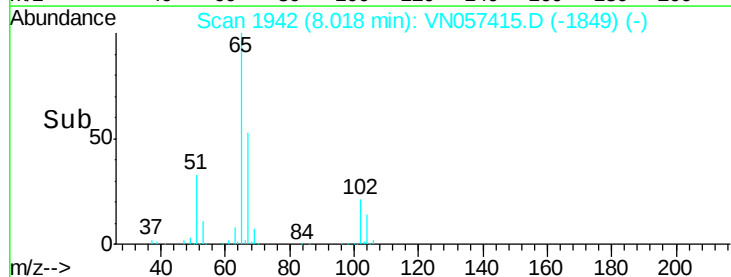
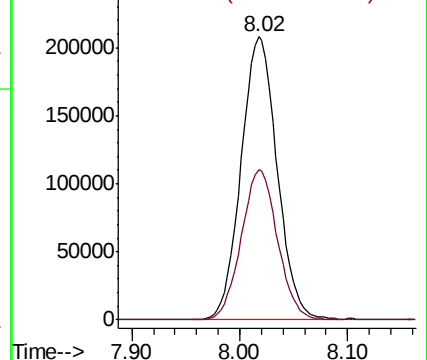
65 100

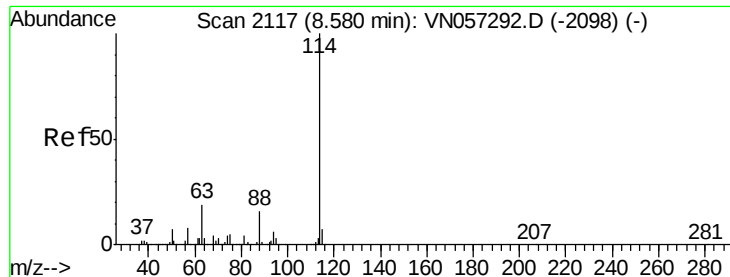
67 53.2 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

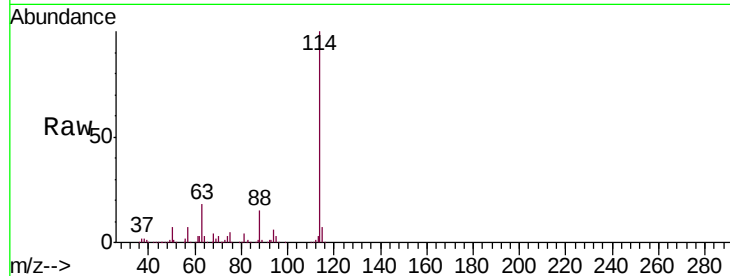




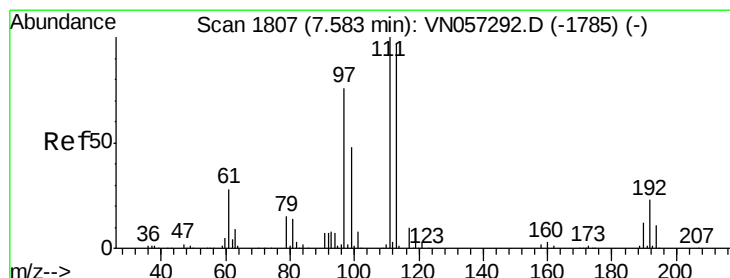
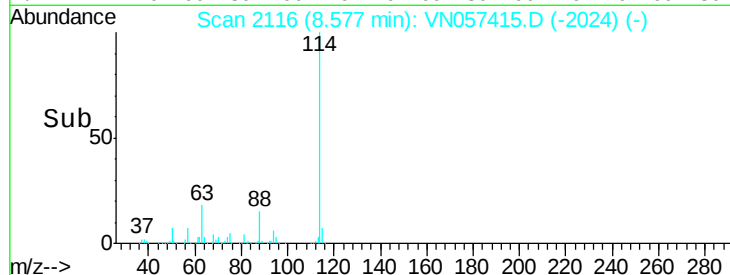
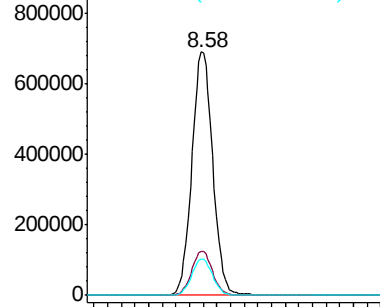
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. -0.00 min
 Lab File: VN057415.D
 Acq: 19 Aug 2019 22:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBL02

Tgt Ion:114 Resp: 1465776
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 38.8
 88 15.0 0.0 31.4

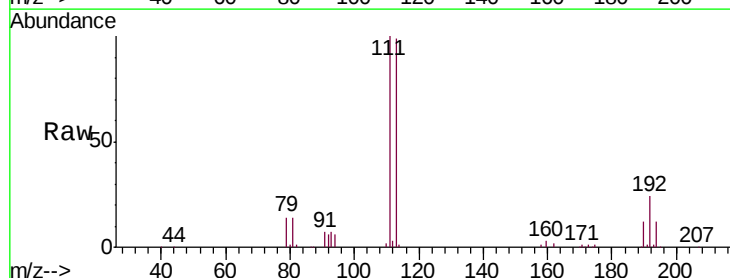


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

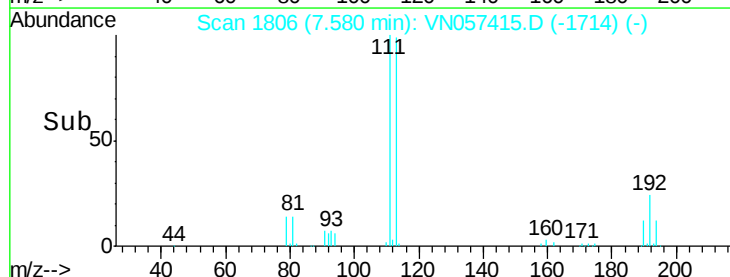
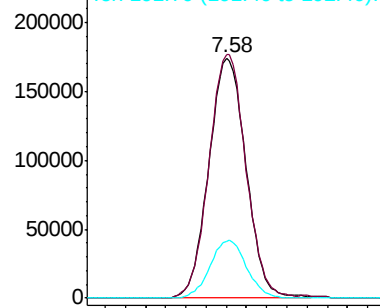


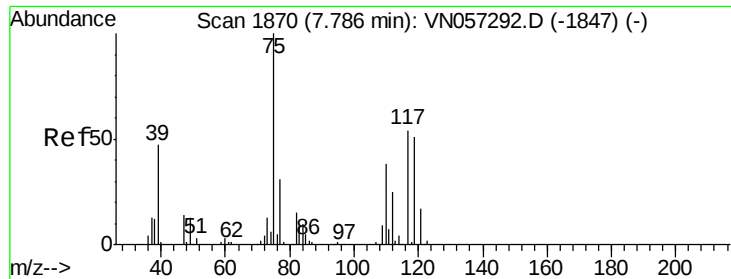
#35
 Dibromofluoromethane
 Concen: 46.478 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN057415.D
 Acq: 19 Aug 2019 22:24

Tgt Ion:113 Resp: 446584
 Ion Ratio Lower Upper
 113 100
 111 100.5 82.1 123.1
 192 23.7 19.3 28.9



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

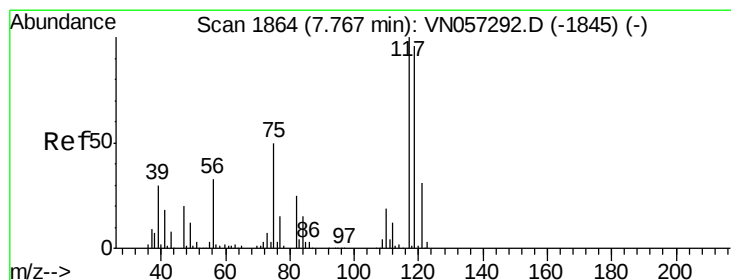
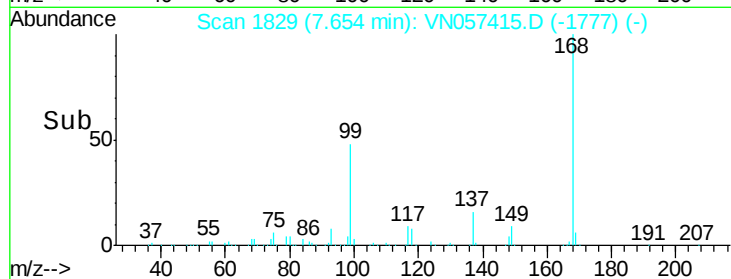
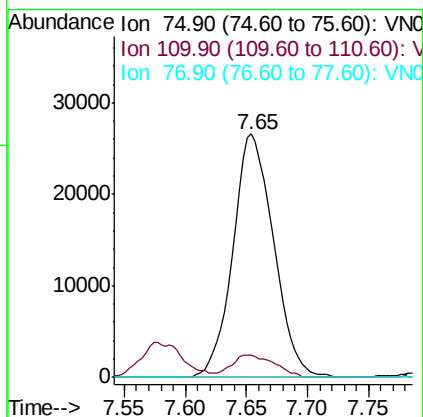
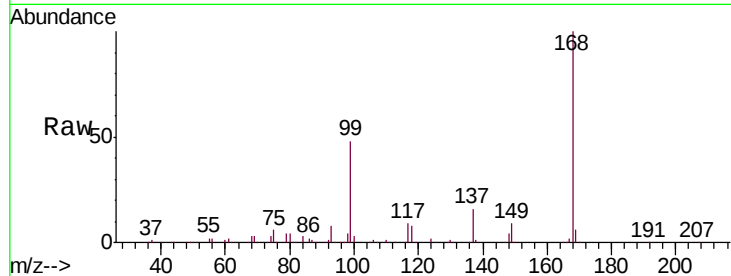




#36
 1,1-Dichloropropene
 Concen: 4.751 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN057415.D
 Acq: 19 Aug 2019 22:24

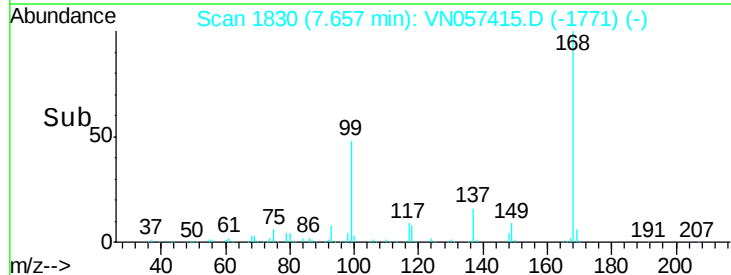
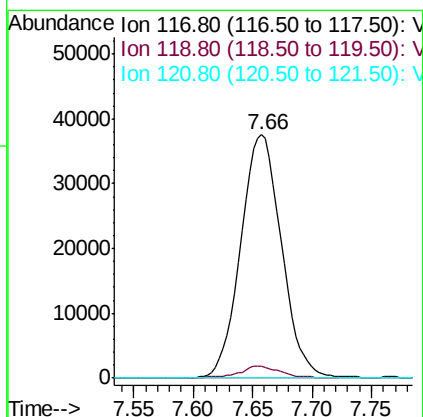
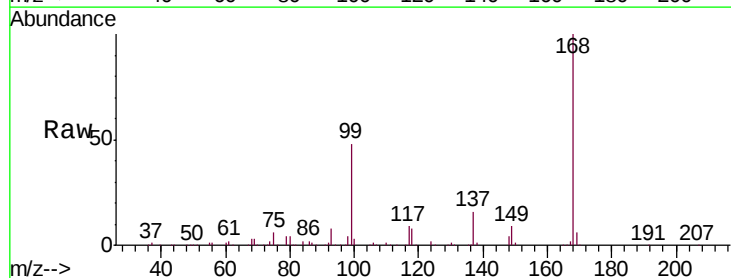
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBL02

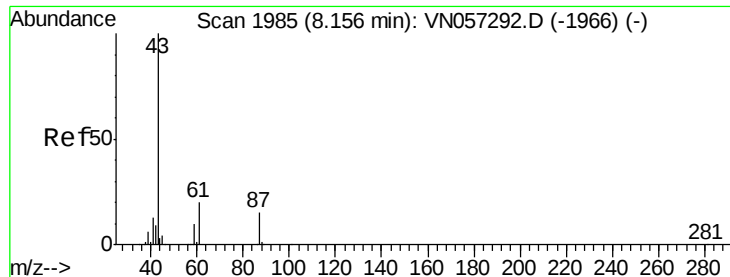
Tgt Ion: 75 Resp: 61484
 Ion Ratio Lower Upper
 75 100
 110 9.9 19.5 58.5#
 77 0.0 25.0 37.6#



#38
 Carbon Tetrachloride
 Concen: 6.631 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN057415.D
 Acq: 19 Aug 2019 22:24

Tgt Ion: 117 Resp: 89164
 Ion Ratio Lower Upper
 117 100
 119 4.9 76.8 115.2#
 121 0.0 25.0 37.4#





#43

Isopropyl Acetate

Concen: 1.680 ug/l

RT: 8.20 min Scan# 2000

Delta R.T. 0.05 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBL02

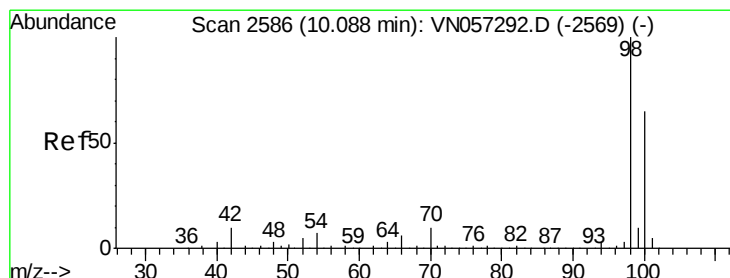
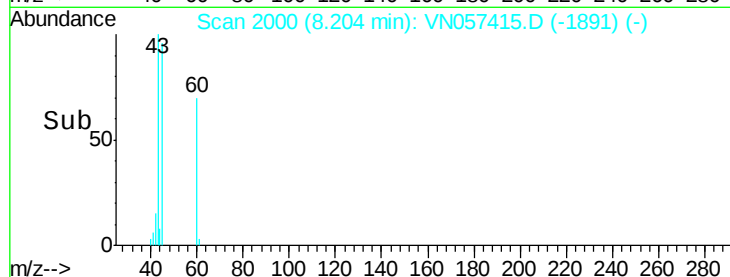
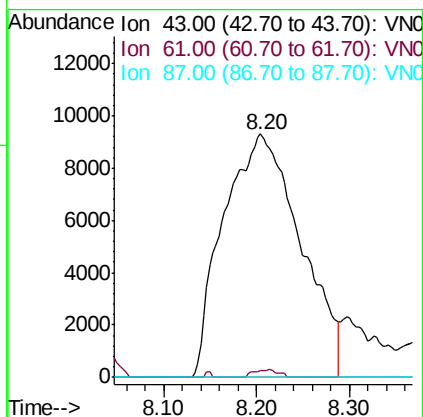
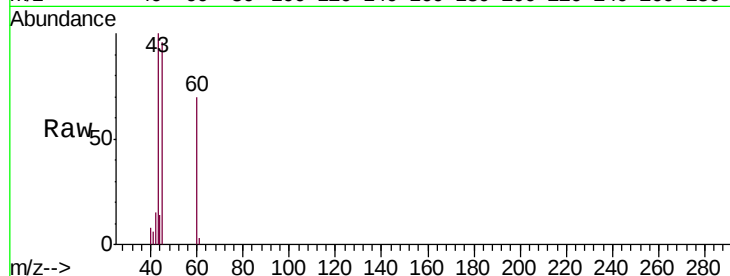
Tgt Ion: 43 Resp: 53690

Ion Ratio Lower Upper

43 100

61 1.0 21.6 32.4#

87 0.0 11.4 17.0#



#50

Toluene-d8

Concen: 47.470 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057415.D

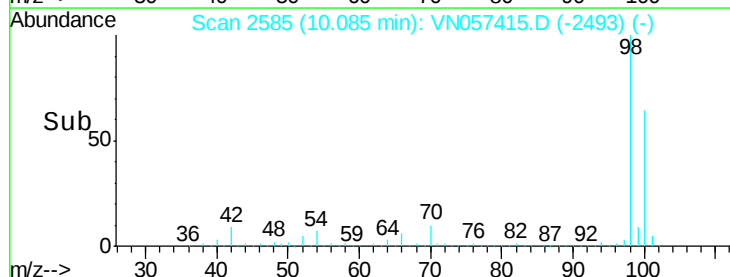
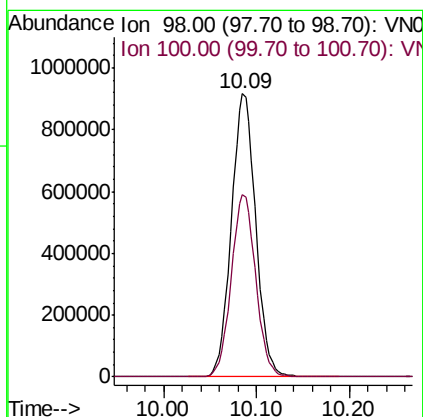
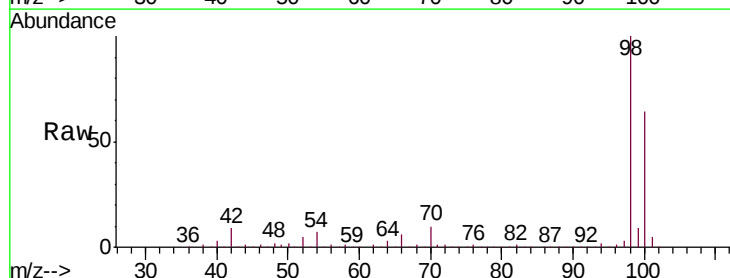
Acq: 19 Aug 2019 22:24

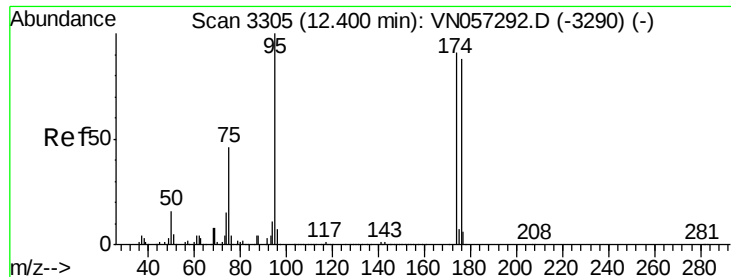
Tgt Ion: 98 Resp: 1668240

Ion Ratio Lower Upper

98 100

100 64.5 51.9 77.9





#62

4-Bromofluorobenzene

Concen: 35.223 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

Instrument :

MSVOA_N

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VN0819WBL02

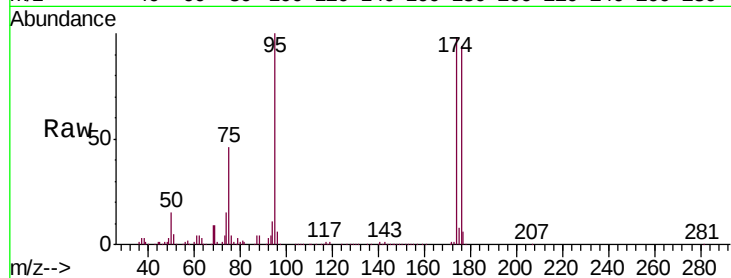
Tgt Ion: 95 Resp: 437442

Ion Ratio Lower Upper

95 100

174 97.7 0.0 185.0

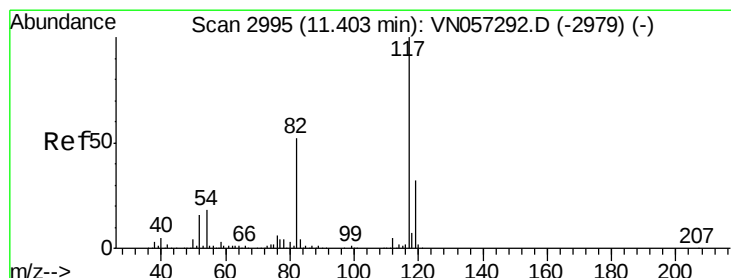
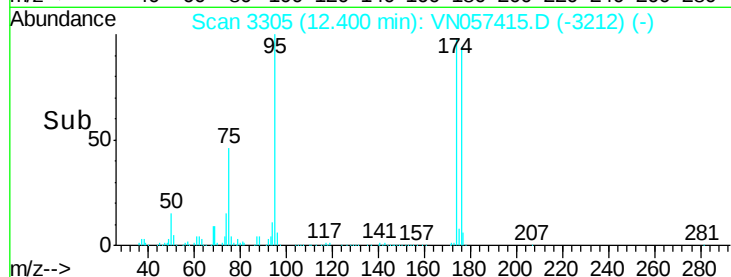
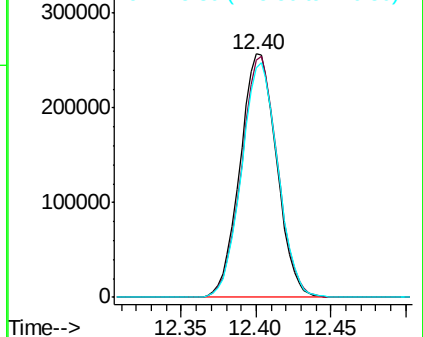
176 95.6 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

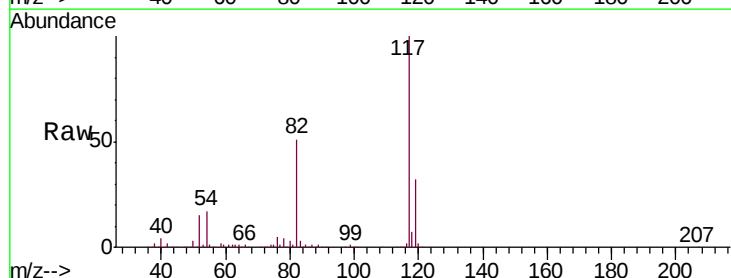
Tgt Ion: 117 Resp: 1207138

Ion Ratio Lower Upper

117 100

82 51.0 41.2 61.8

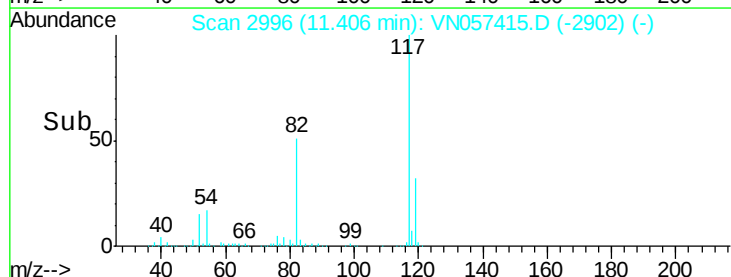
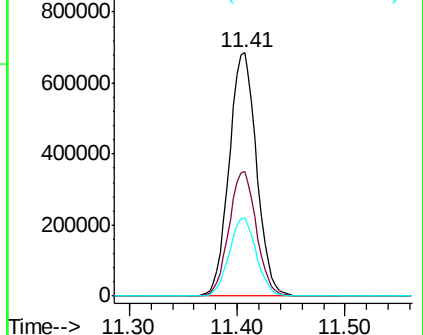
119 32.1 25.8 38.8

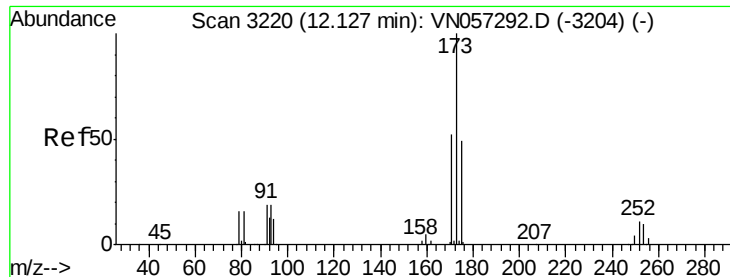


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.215 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

Instrument :

MSVOA_N

ClientSampled :

VN0819WBL02

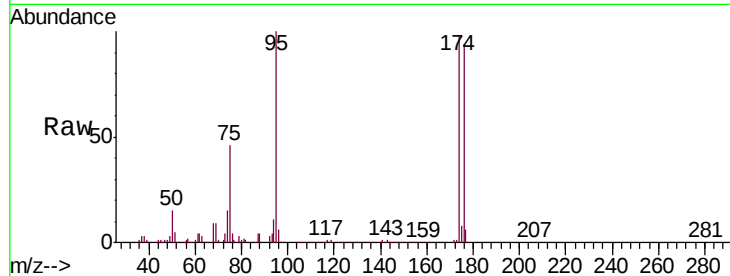
Tgt Ion:173 Resp: 1600

Ion Ratio Lower Upper

173 100

175 1796.8 24.2 72.6#

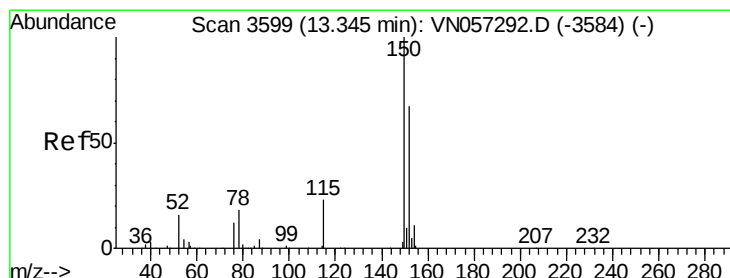
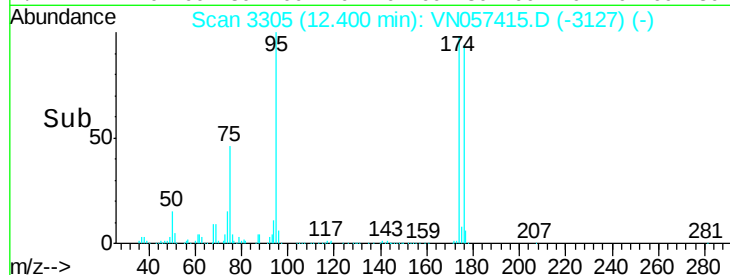
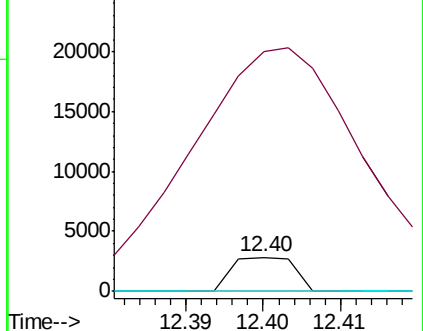
254 0.0 0.2 0.2#



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: VN057415.D

Acq: 19 Aug 2019 22:24

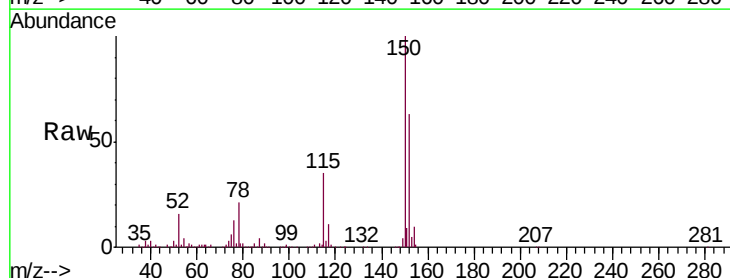
Tgt Ion:152 Resp: 313999

Ion Ratio Lower Upper

152 100

115 54.2 27.3 81.9

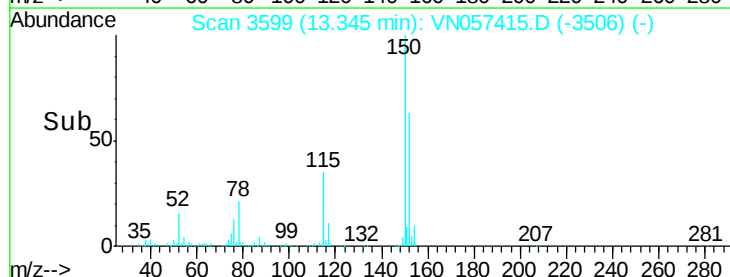
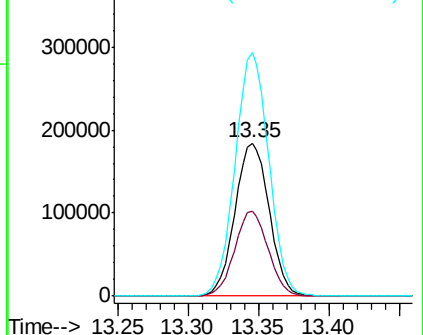
150 156.6 0.0 344.4

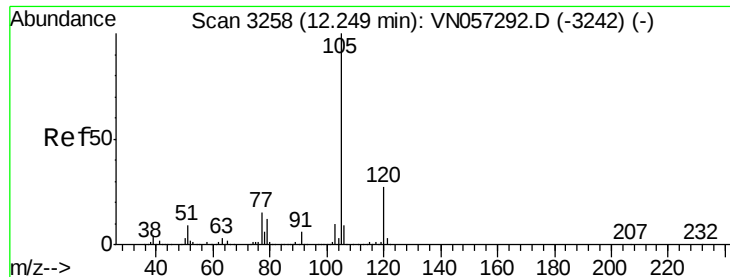


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

Instrument :

MSVOA_N

ClientSampleId :

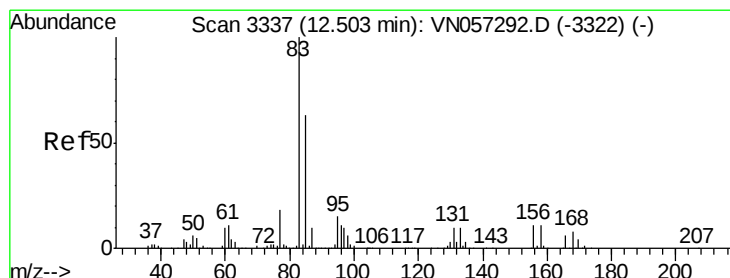
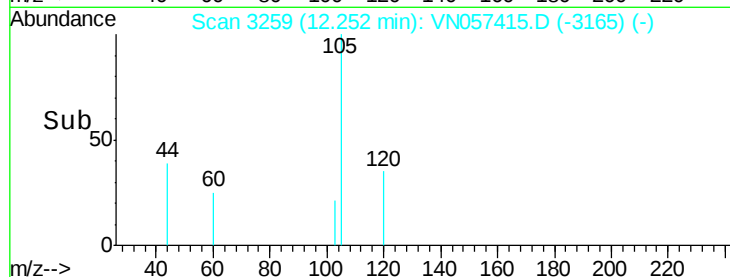
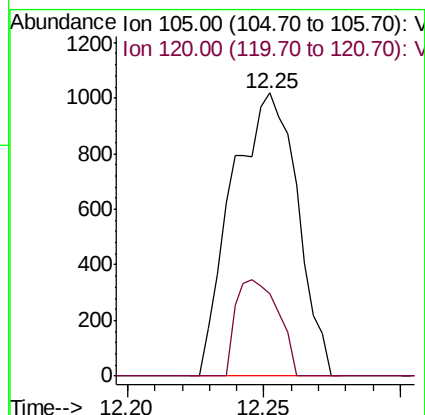
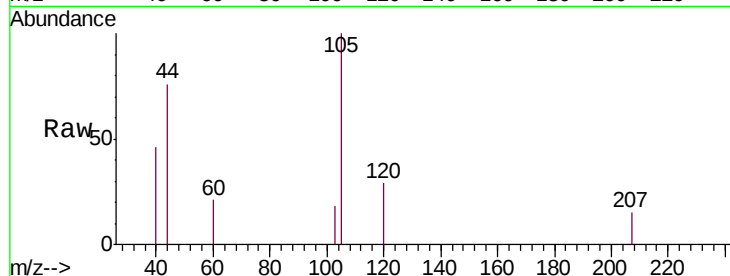
VN0819WBL02

Tgt Ion: 105 Resp: 1697

Ion Ratio Lower Upper

105 100

120 22.1 13.2 39.6



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

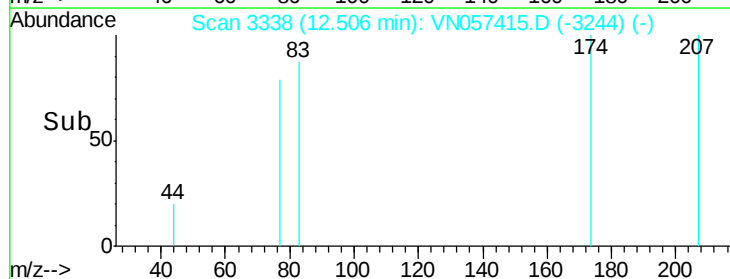
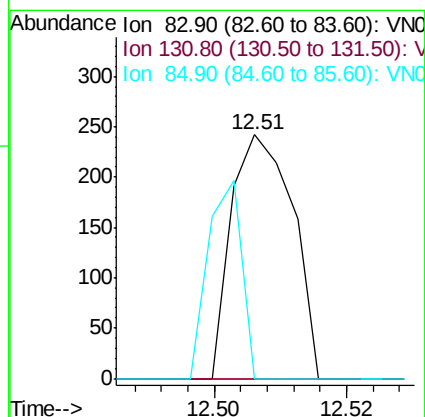
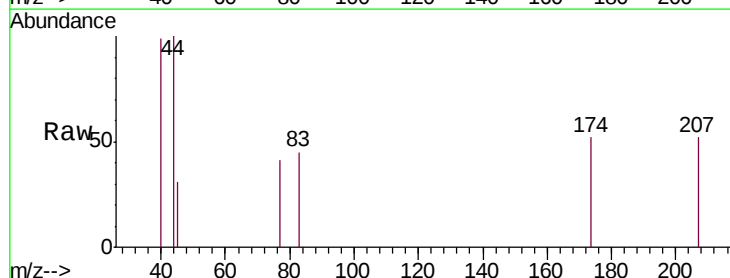
Tgt Ion: 83 Resp: 156

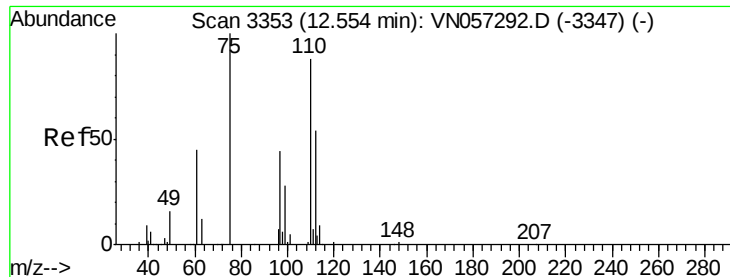
Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

85 44.2 32.3 96.9





#76

1,2,3-Trichloropropane

Concen: 31.938 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

Instrument :

MSVOA_N

ClientSampled :

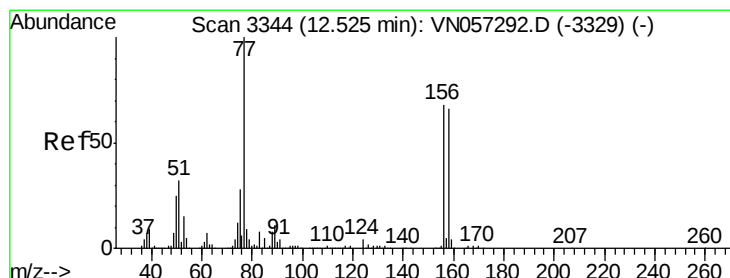
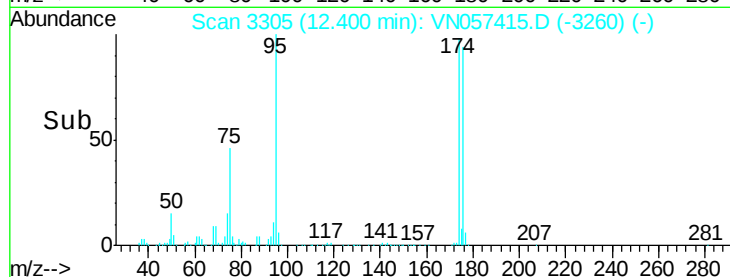
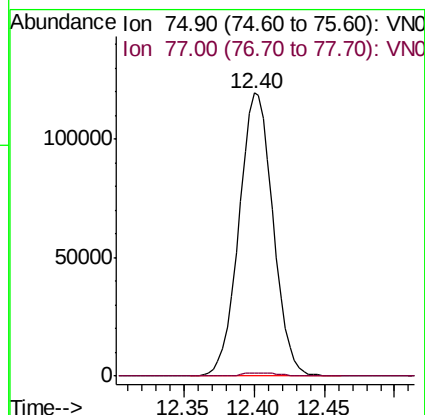
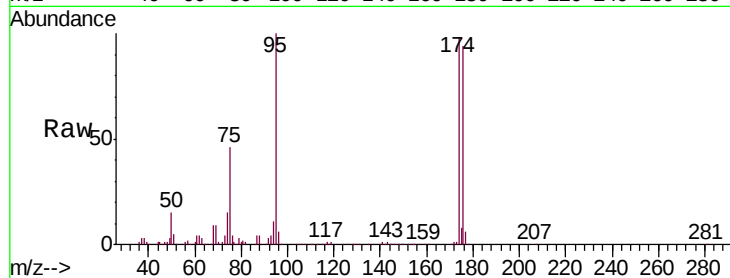
VN0819WBL02

Tgt Ion: 75 Resp: 201629

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#77

Bromobenzene

Concen: Below Cal

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

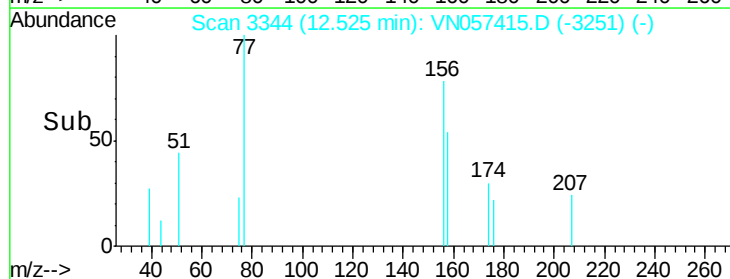
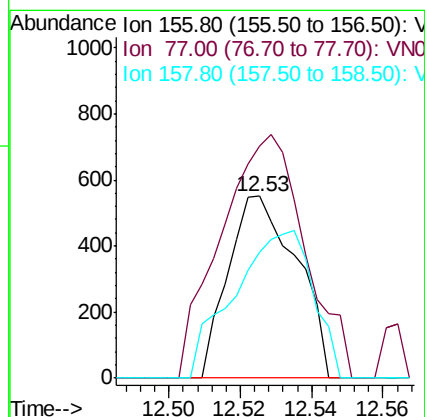
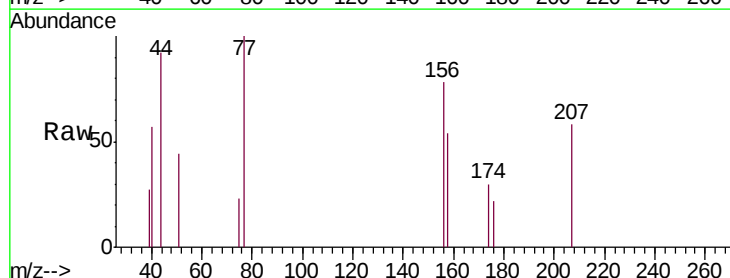
Tgt Ion: 156 Resp: 732

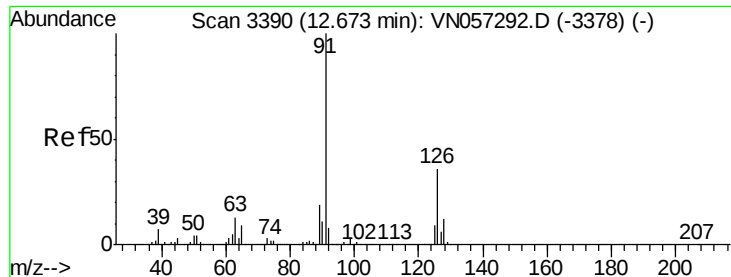
Ion Ratio Lower Upper

156 100

77 163.7 89.8 269.6

158 93.4 49.3 147.8





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

Instrument :

MSVOA_N

ClientSampled :

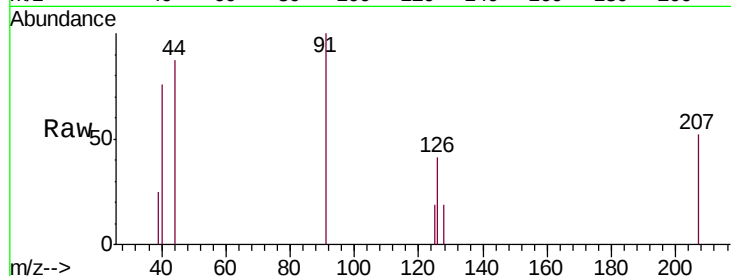
VN0819WBL02

Tgt Ion: 91 Resp: 1654

Ion Ratio Lower Upper

91 100

126 32.5 18.1 54.1



Abundance Ion 91.00 (90.70 to 91.70): VN057292.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN057292.D (-3378) (-)

12.67

800

600

400

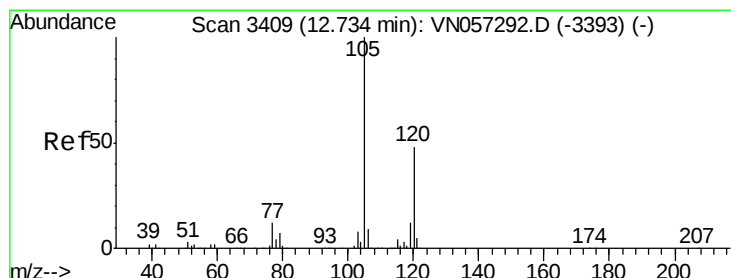
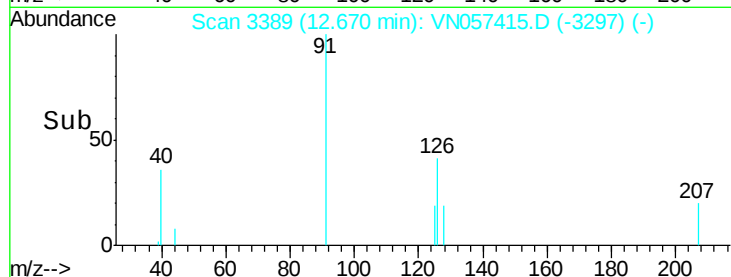
200

0

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057415.D

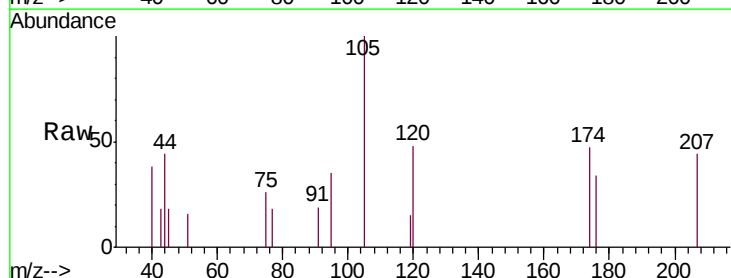
Acq: 19 Aug 2019 22:24

Tgt Ion: 105 Resp: 1851

Ion Ratio Lower Upper

105 100

120 44.1 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): VN057292.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN057292.D (-3393) (-)

12.73

1200

1000

800

600

400

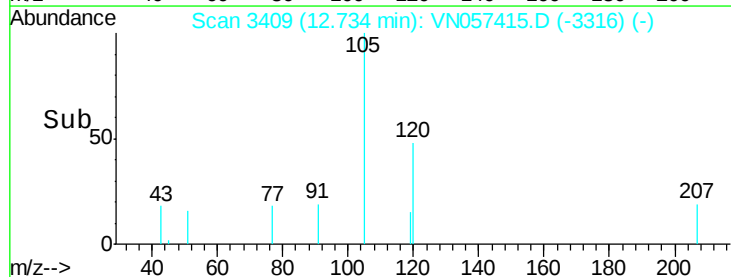
200

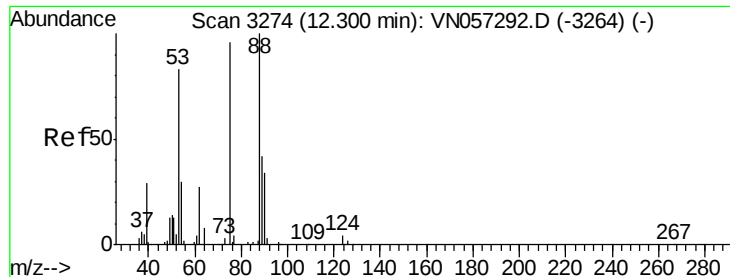
0

12.70

12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 78.300 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBL02

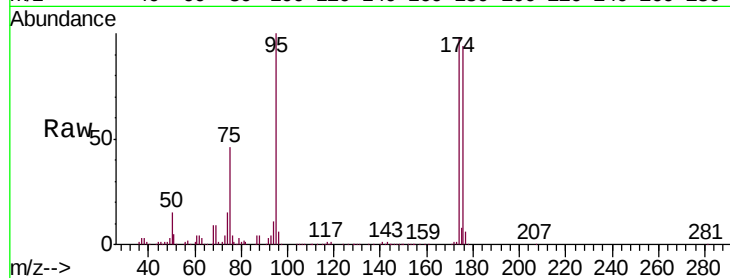
Tgt Ion: 75 Resp: 201629

Ion Ratio Lower Upper

75 100

53 0.0 67.9 101.9#

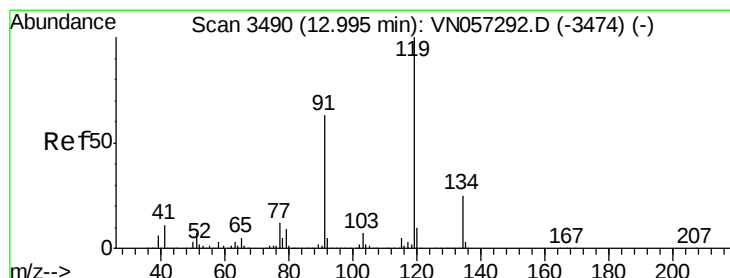
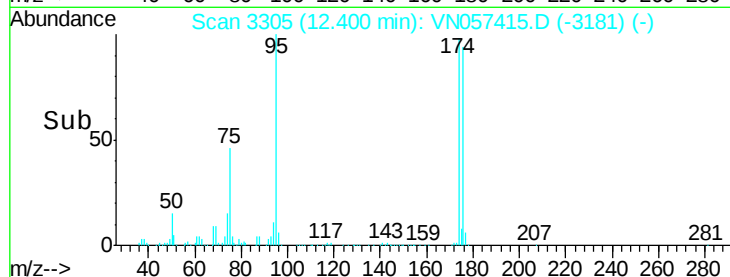
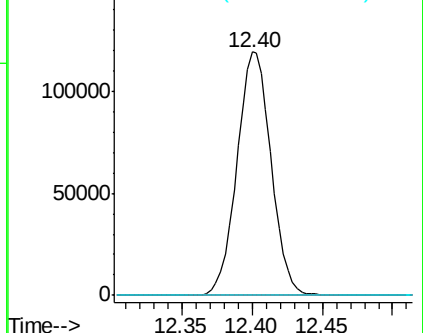
89 0.1 36.2 54.4#



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



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3488

Delta R.T. -0.01 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

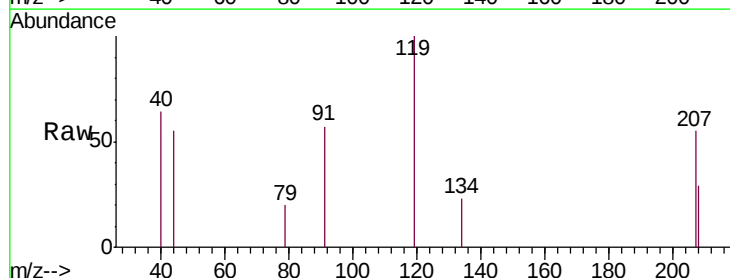
Tgt Ion: 119 Resp: 1427

Ion Ratio Lower Upper

119 100

91 60.5 31.3 93.8

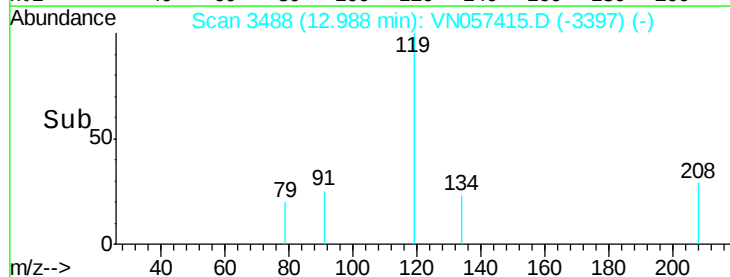
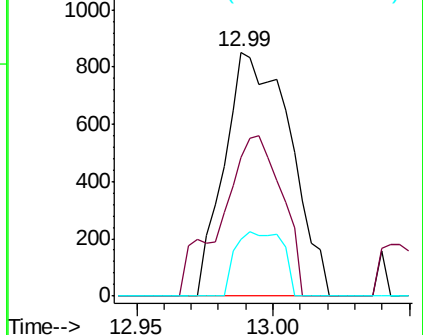
134 18.8 13.1 39.1

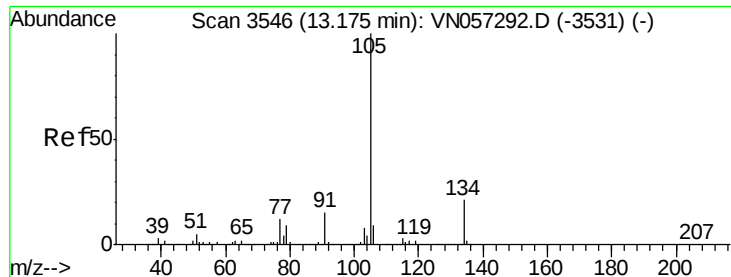


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3544

Delta R.T. -0.01 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

Instrument :

MSVOA_N

ClientSampleId :

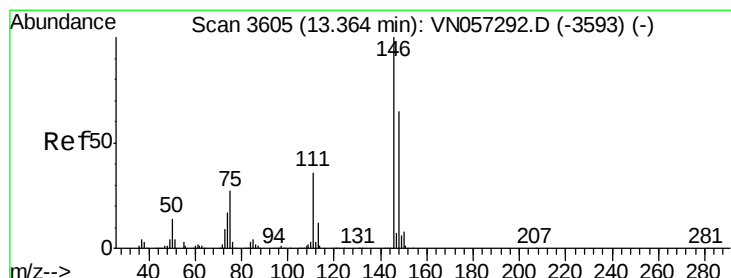
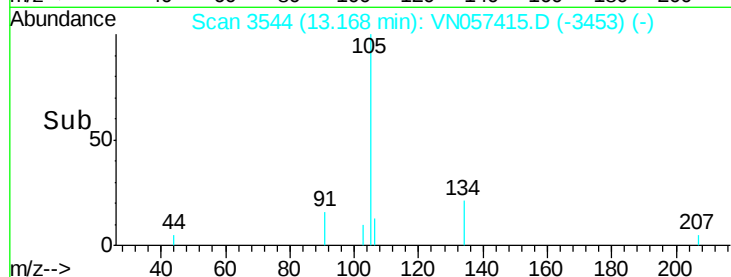
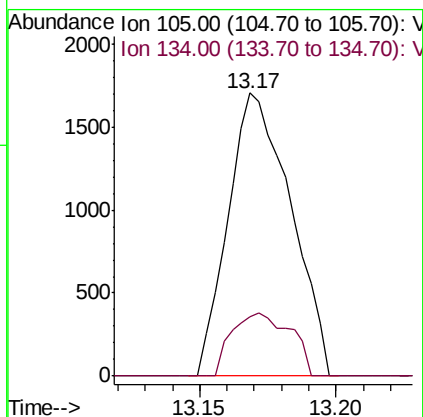
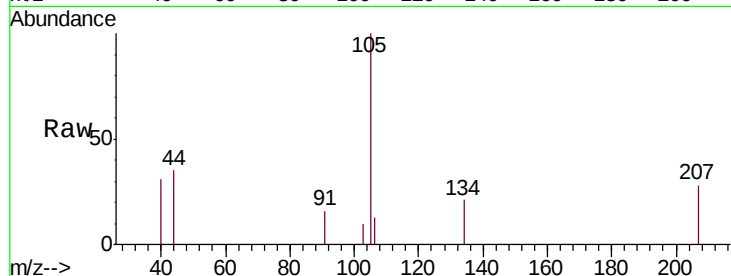
VN0819WBL02

Tgt Ion:105 Resp: 2716

Ion Ratio Lower Upper

105 100

134 21.0 10.4 31.2



#88

1,4-Dichlorobenzene

Concen: 0.232 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

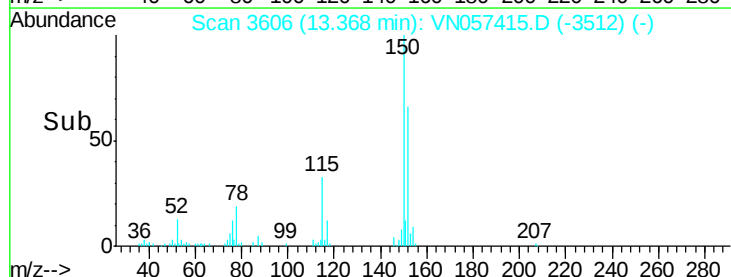
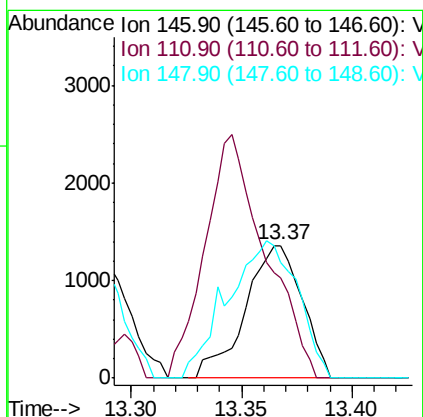
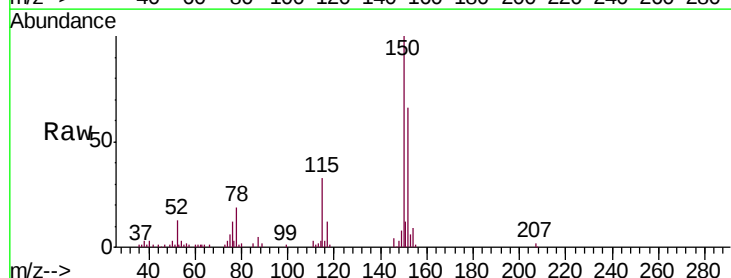
Tgt Ion:146 Resp: 2424

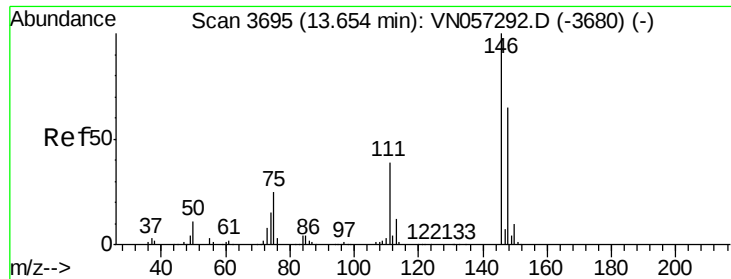
Ion Ratio Lower Upper

146 100

111 0.0 18.4 55.4#

148 127.8 32.5 97.4#

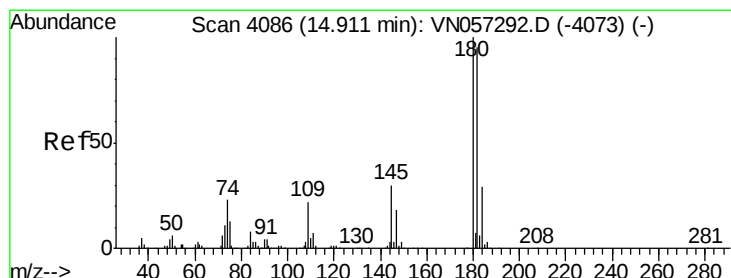
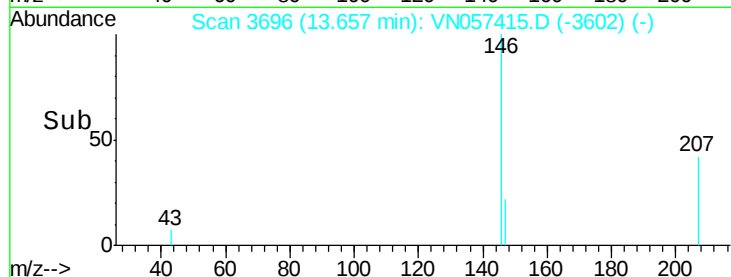
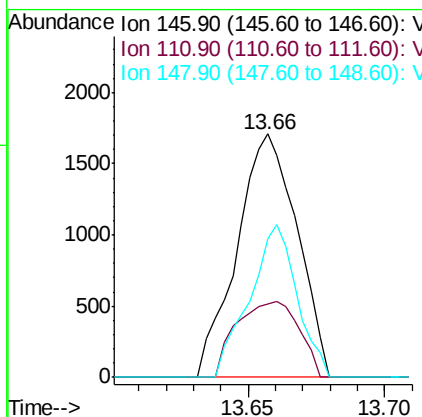
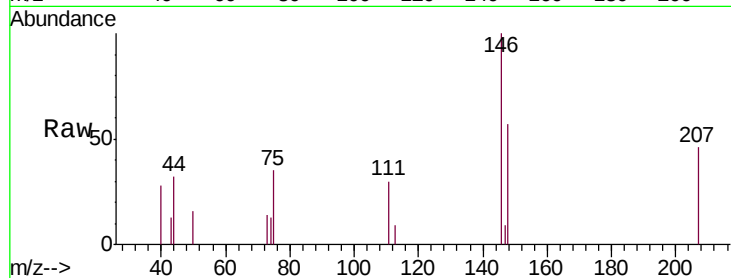




#91
 1,2-Dichlorobenzene
 Concen: 0.255 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN057415.D
 Acq: 19 Aug 2019 22:24

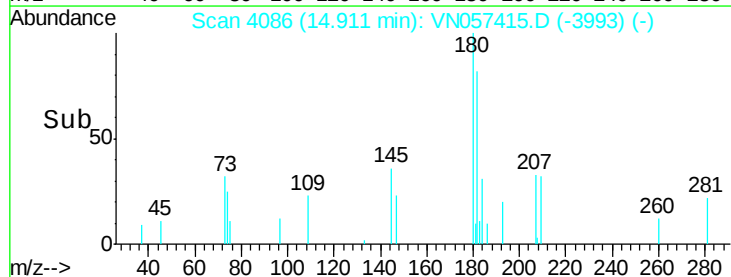
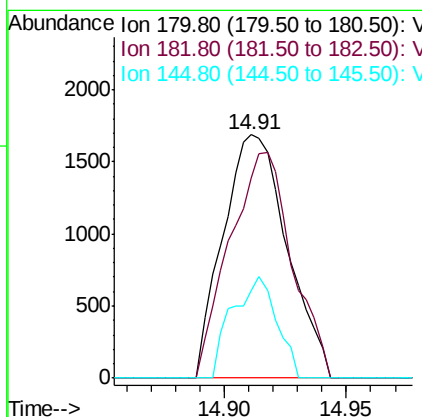
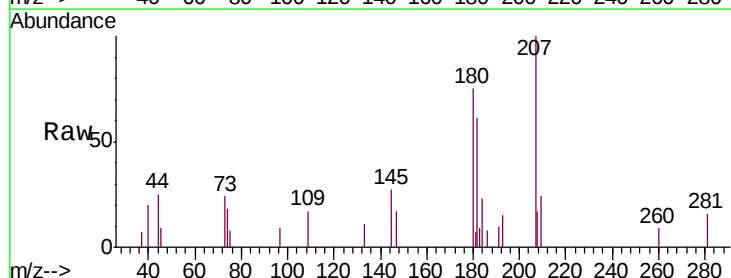
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBL02

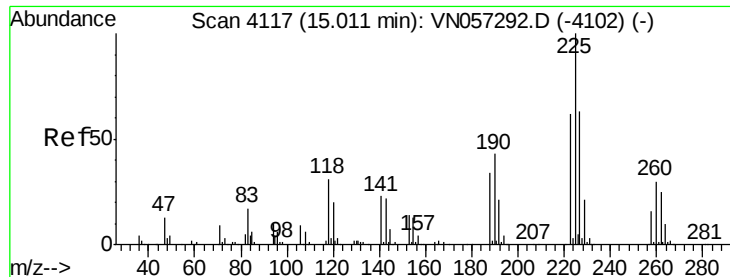
Tgt Ion:146 Resp: 2612
 Ion Ratio Lower Upper
 146 100
 111 32.5 19.7 59.1
 148 49.4 32.0 96.0



#93
 1,2,4-Trichlorobenzene
 Concen: 6.026 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN057415.D
 Acq: 19 Aug 2019 22:24

Tgt Ion:180 Resp: 3078
 Ion Ratio Lower Upper
 180 100
 182 90.0 48.0 144.2
 145 28.9 14.5 43.6





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. -0.01 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

Instrument :

MSVOA_N

ClientSampleId :

VN0819WBL02

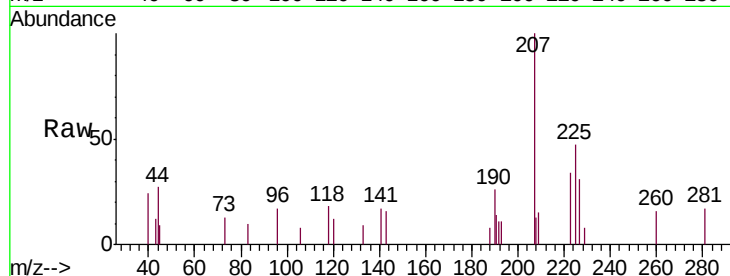
Tgt Ion:225 Resp: 1543

Ion Ratio Lower Upper

225 100

223 57.2 30.7 92.1

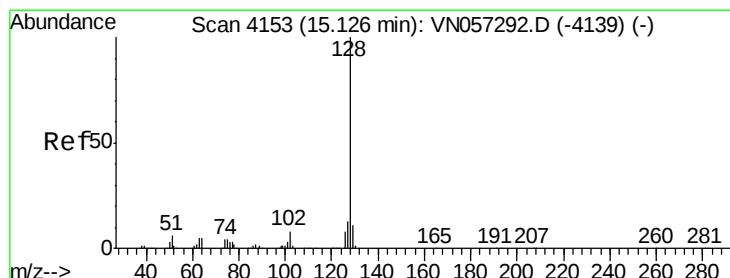
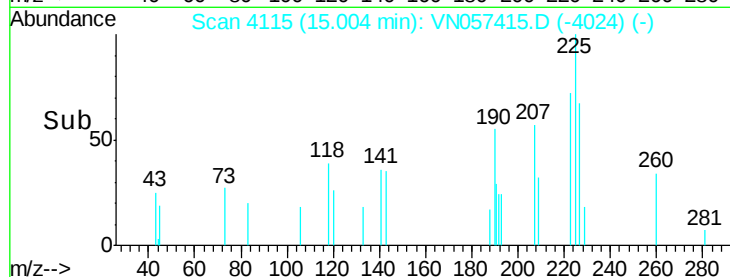
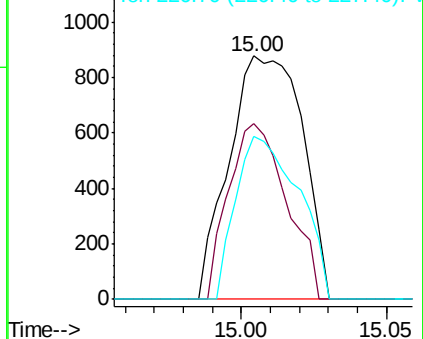
227 57.4 30.9 92.7



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: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057415.D

Acq: 19 Aug 2019 22:24

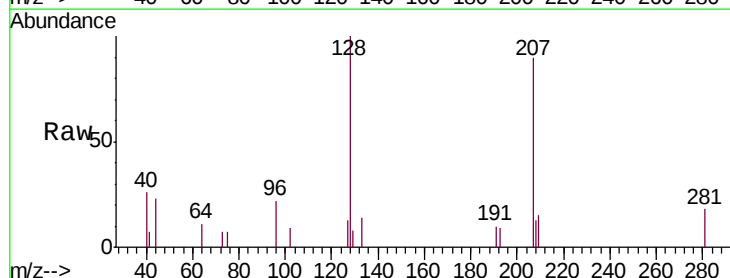
Tgt Ion:128 Resp: 4080

Ion Ratio Lower Upper

128 100

127 10.1 10.5 15.7#

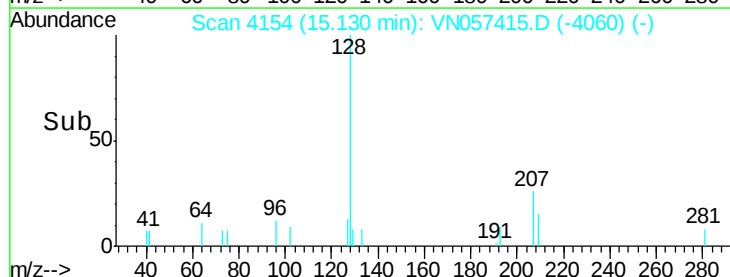
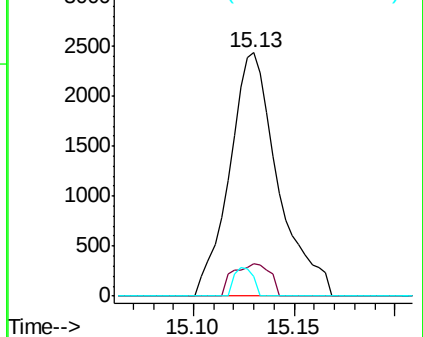
129 4.6 8.8 13.2#

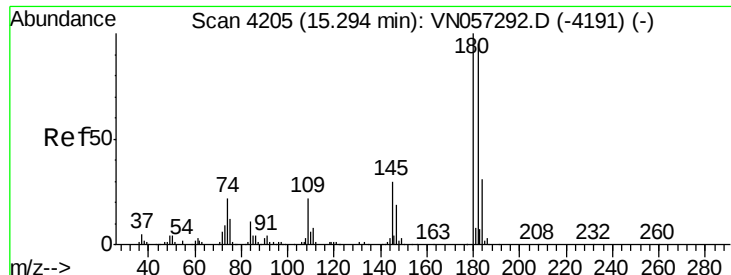


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 15.29 min Scan# 4205
 Delta R.T. 0.00 min
 Lab File: VN057415.D
 Acq: 19 Aug 2019 22:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0819WBL02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.2	47.9	143.6
145	31.0	15.1	45.3

