

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083119\
 Data File : VN057591.D
 Acq On : 30 Aug 2019 16:40
 Operator : JC/SP
 Sample : VN0831WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

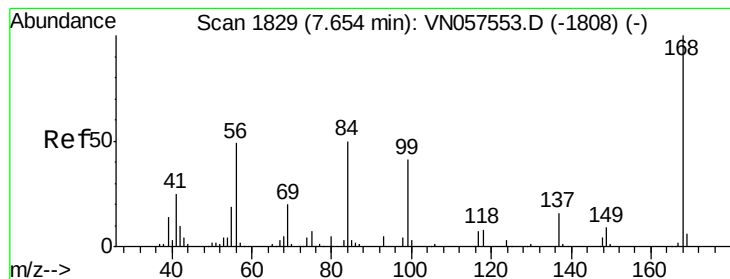
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBL01

Quant Time: Aug 31 00:47:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 30 11:59:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	602085	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	934227	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	756558	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	192999	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	356689	36.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	72.40%	
35) Dibromofluoromethane	7.58	113	285444	34.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	68.36%	
50) Toluene-d8	10.08	98	1115082	37.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	75.50%	
62) 4-Bromofluorobenzene	12.40	95	280797	28.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	56.64%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.57	94	3245	0.378	ug/l #	65
13) Acrolein	3.57	56	304	0.365	ug/l #	52
16) Acetone	3.81	43	1727	0.434	ug/l #	79
18) Methyl Acetate	4.31	43	5269	Below Cal	#	83
31) Cyclohexane	7.65	56	13298	1.162	ug/l #	5
36) 1,1-Dichloropropene	7.65	75	45832	4.535	ug/l #	52
38) Carbon Tetrachloride	7.65	117	59495	5.034	ug/l #	16
41) Methacrylonitrile	7.14	41	176	1.323	ug/l #	37
73) Isopropylbenzene	12.24	105	360	Below Cal	#	50
74) N-amyl acetate	12.06	43	215	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	12.41	83	164	Below Cal	#	16
76) 1,2,3-Trichloropropane	12.40	75	153397	42.731	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	153397	119.512	ug/l #	8
83) tert-Butylbenzene	13.00	119	869	Below Cal	#	86
87) 1,3-Dichlorobenzene	13.29	146	1420	0.205	ug/l	83
88) 1,4-Dichlorobenzene	13.29	146	1420	0.214	ug/l	85
91) 1,2-Dichlorobenzene	13.66	146	1312	0.203	ug/l #	82
93) 1,2,4-Trichlorobenzene	14.92	180	2414	4.617	ug/l	95
94) Hexachlorobutadiene	15.01	225	437	0.205	ug/l #	59
95) Naphthalene	15.13	128	4073	0.638	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.29	180	1995	0.915	ug/l	83

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN083119\
Data File : VN057591.D
Acq On    : 30 Aug 2019   16:40
Operator  : JC/SP
Sample    : VN0831WBL01
Misc      : 5.00mL/MSVOA_N/WATER
ALS Vial  : 4   Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN057591.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_N

ClientSampleId :

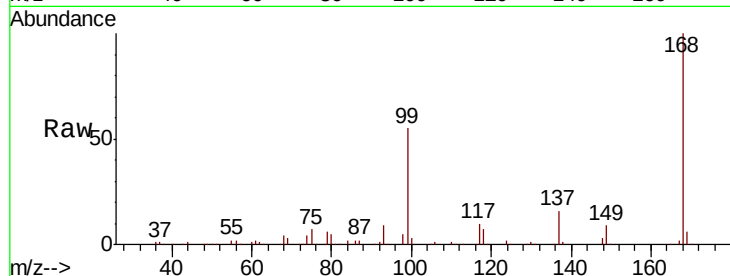
VN0831WBL01

Tgt Ion:168 Resp: 602085

Ion Ratio Lower Upper

168 100

99 54.5 50.6 76.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

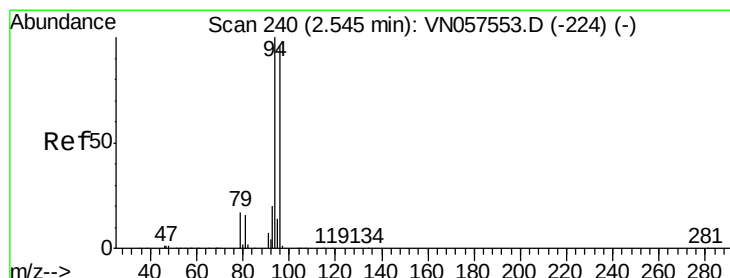
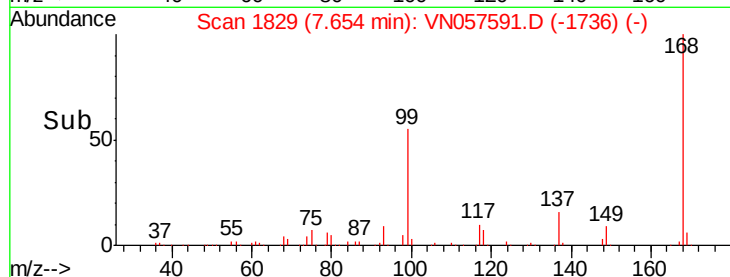
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.378 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.02 min

Lab File: VN057591.D

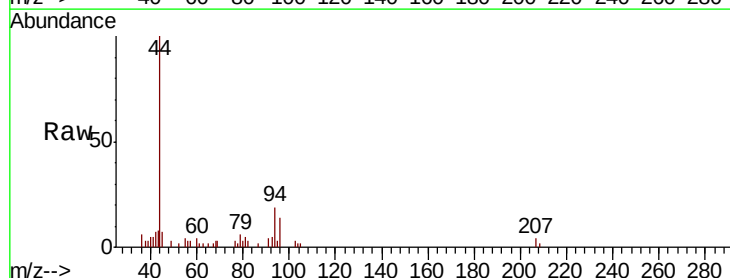
Acq: 30 Aug 2019 16:40

Tgt Ion: 94 Resp: 3245

Ion Ratio Lower Upper

94 100

96 61.6 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.57

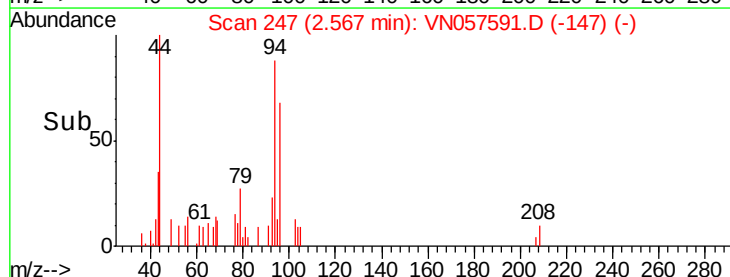
1500

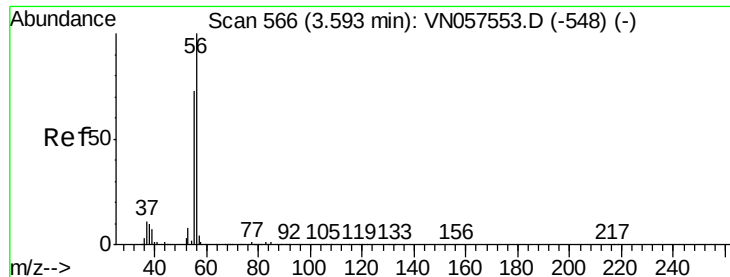
1000

500

0

Time-->





#13

Acrolein

Concen: 0.365 ug/l

RT: 3.57 min Scan# 559

Delta R.T. -0.02 min

Lab File: VN057591.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_N

ClientSampled :

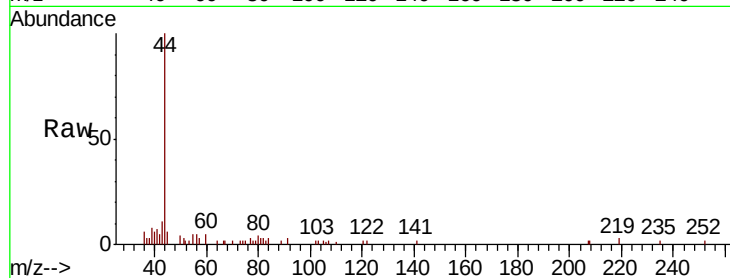
VN0831WBL01

Tgt Ion: 56 Resp: 304

Ion Ratio Lower Upper

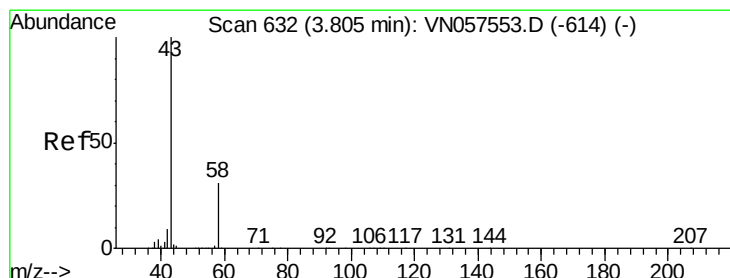
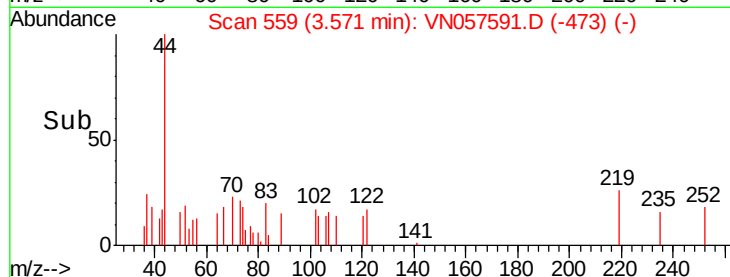
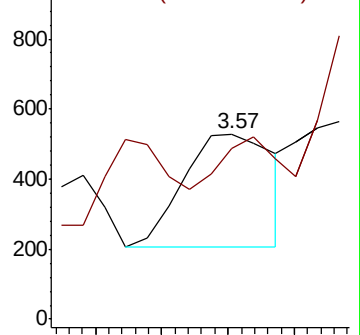
56 100

55 33.6 59.0 88.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 0.434 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN057591.D

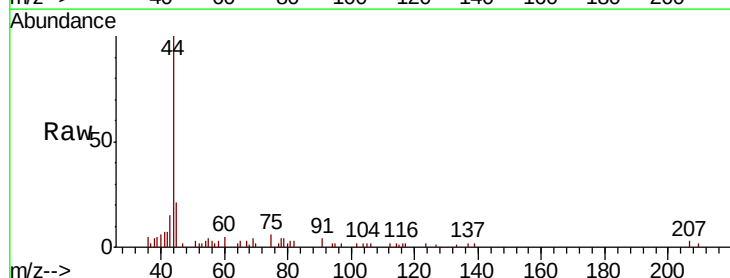
Acq: 30 Aug 2019 16:40

Tgt Ion: 43 Resp: 1727

Ion Ratio Lower Upper

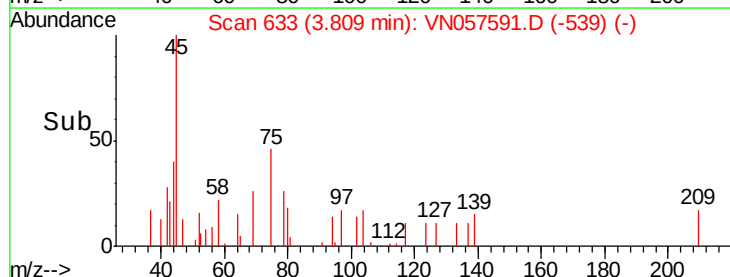
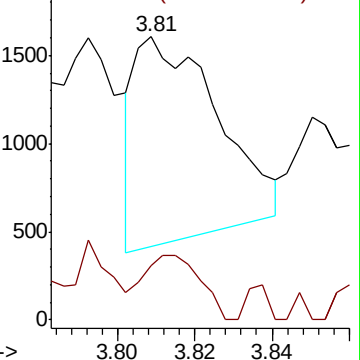
43 100

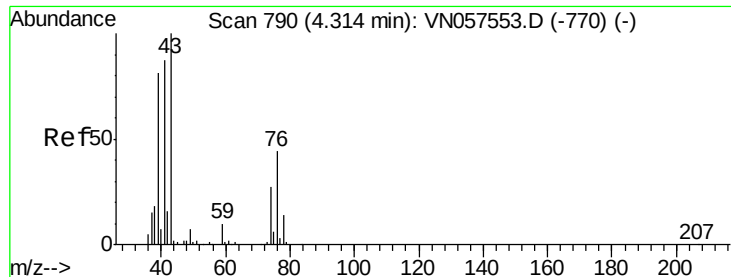
58 38.3 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

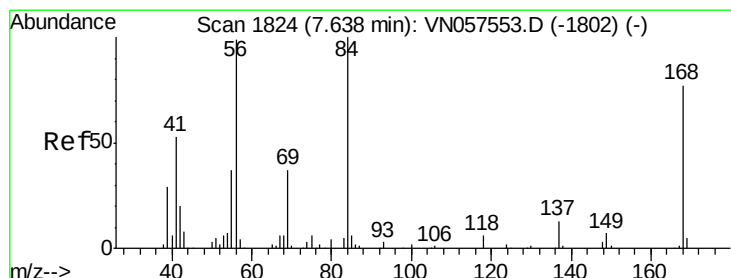
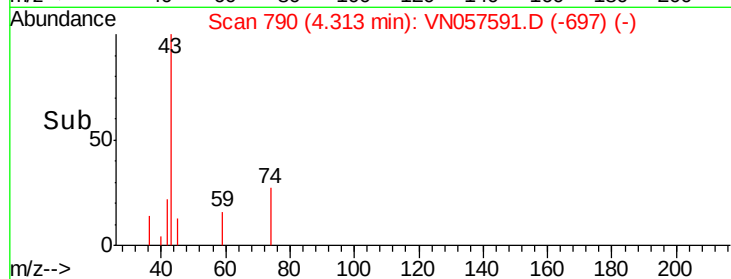
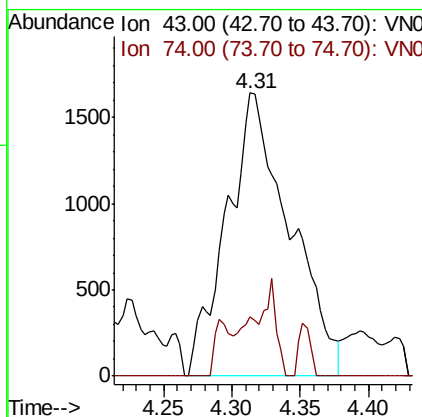
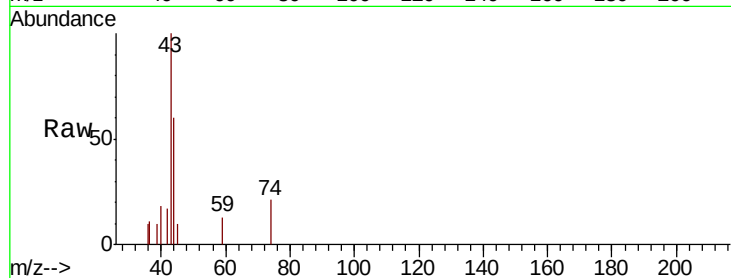




#18
Methyl Acetate
Concen: Below Cal
RT: 4.31 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN057591.D
Acq: 30 Aug 2019 16:40

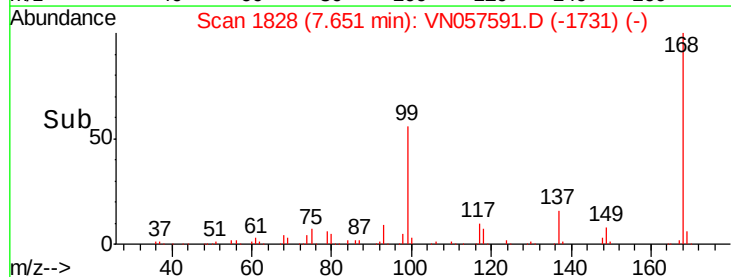
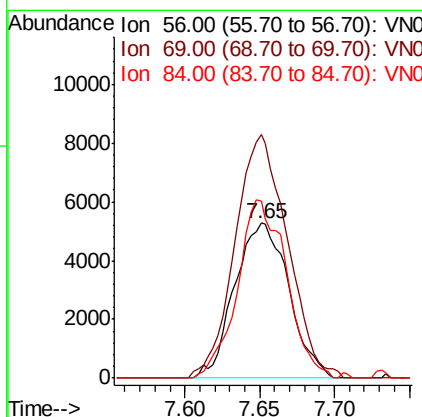
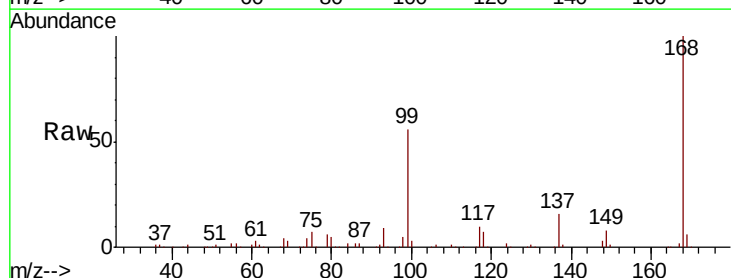
Instrument :
MSVOA_N
ClientSampleId :
VN0831WBL01

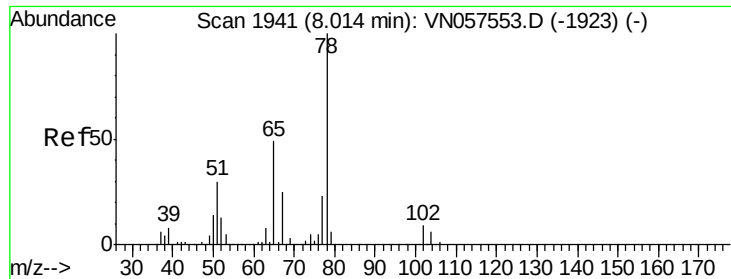
Tgt Ion: 43 Resp: 5269
Ion Ratio Lower Upper
43 100
74 12.1 15.9 23.9#



#31
Cyclohexane
Concen: 1.162 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057591.D
Acq: 30 Aug 2019 16:40

Tgt Ion: 56 Resp: 13298
Ion Ratio Lower Upper
56 100
69 157.4 25.0 37.6#
84 114.0 62.5 93.7#

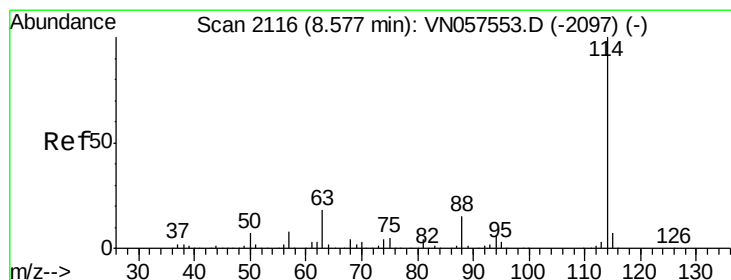
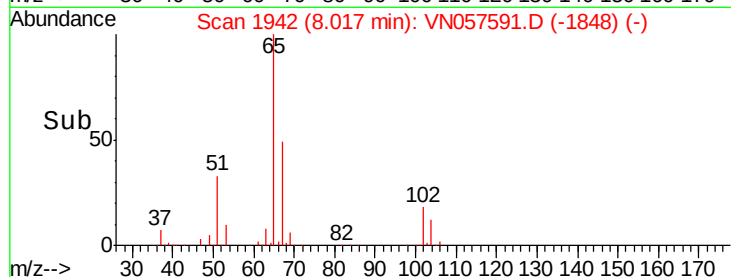
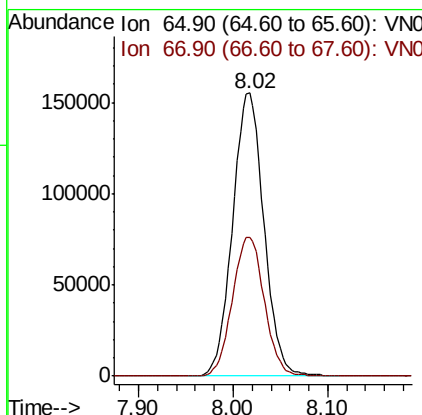
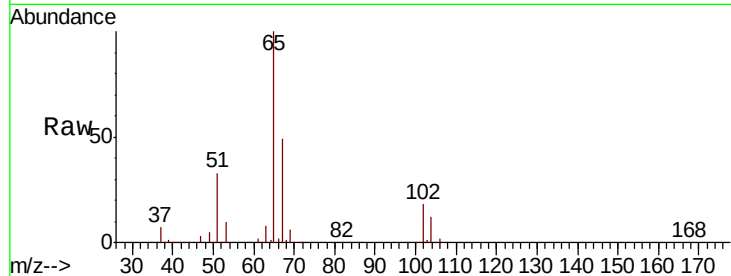




#33
 1,2-Dichloroethane-d4
 Concen: 36.195 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.00 min
 Lab File: VN057591.D
 Acq: 30 Aug 2019 16:40

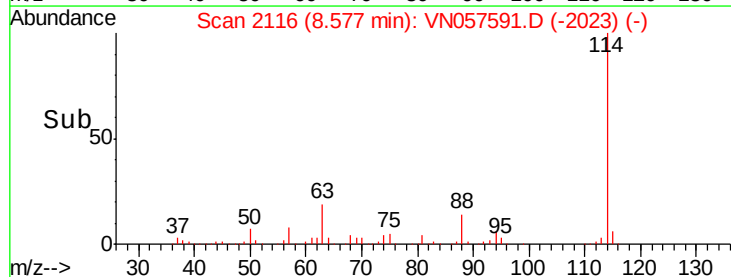
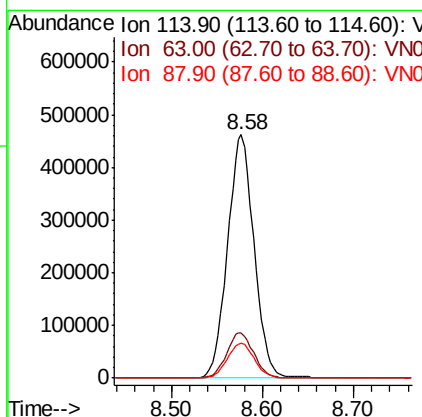
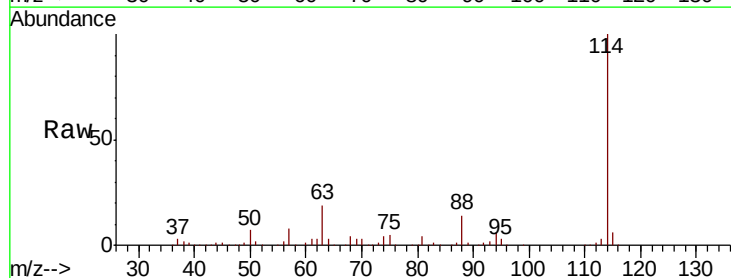
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBL01

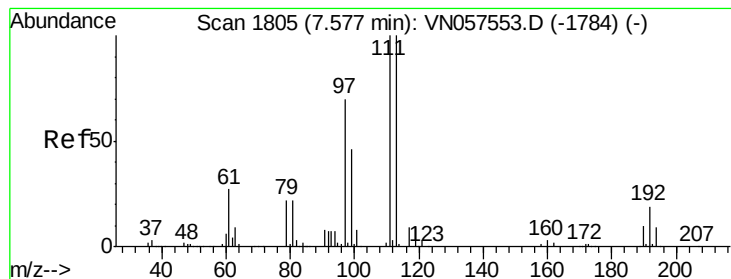
Tgt Ion: 65 Resp: 356689
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. -0.00 min
 Lab File: VN057591.D
 Acq: 30 Aug 2019 16:40

Tgt Ion: 114 Resp: 934227
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 50.2
 88 14.2 0.0 34.6





#35

Dibromofluoromethane

Concen: 34.184 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VN057591.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBL01

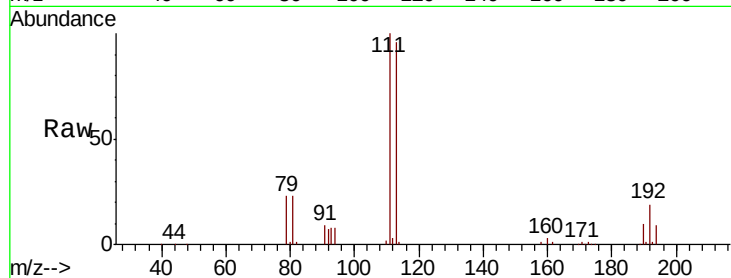
Tgt Ion:113 Resp: 285444

Ion Ratio Lower Upper

113 100

111 103.6 83.8 125.6

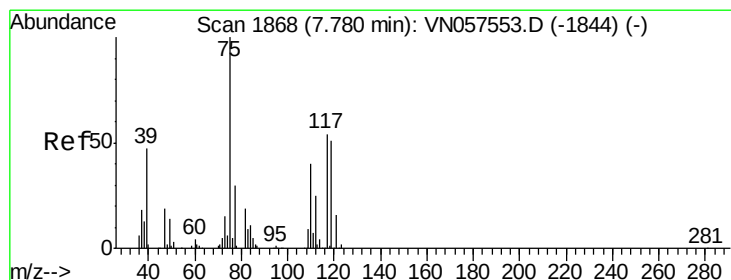
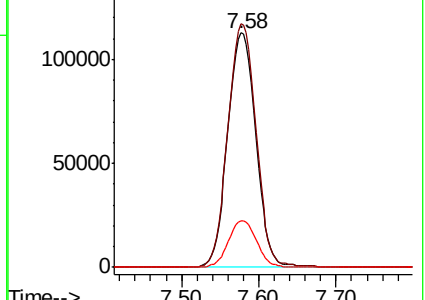
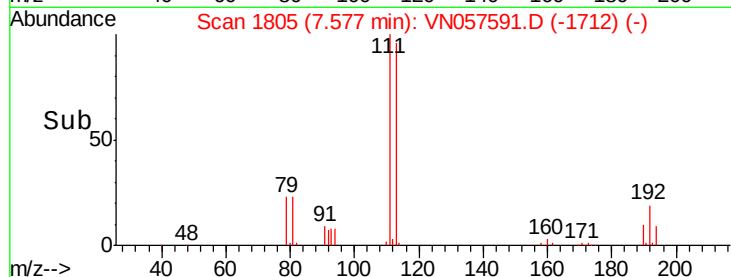
192 19.7 13.5 20.3



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: 4.535 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN057591.D

Acq: 30 Aug 2019 16:40

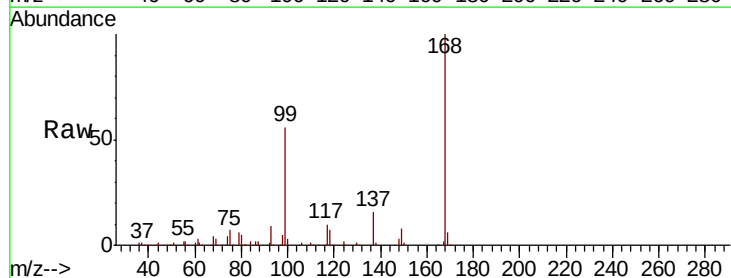
Tgt Ion: 75 Resp: 45832

Ion Ratio Lower Upper

75 100

110 10.0 16.1 48.3#

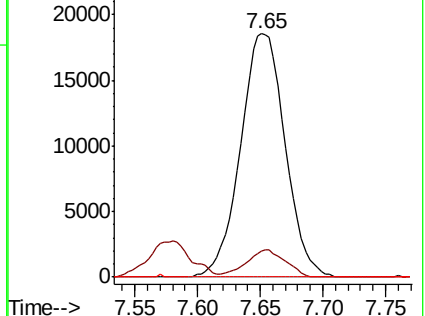
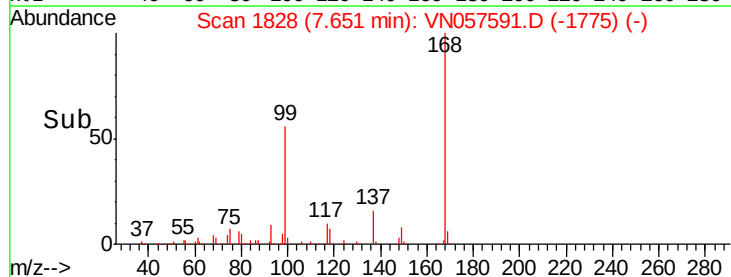
77 0.0 24.8 37.2#

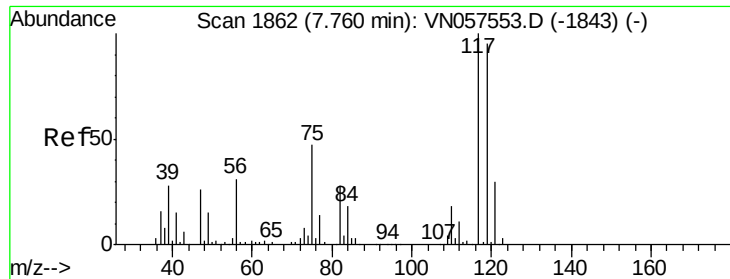


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.034 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.11 min

Lab File: VN057591.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBL01

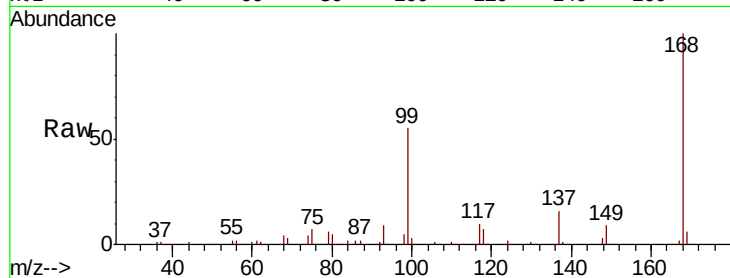
Tgt Ion: 117 Resp: 59495

Ion Ratio Lower Upper

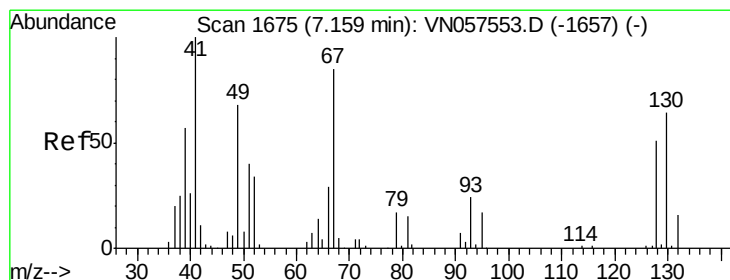
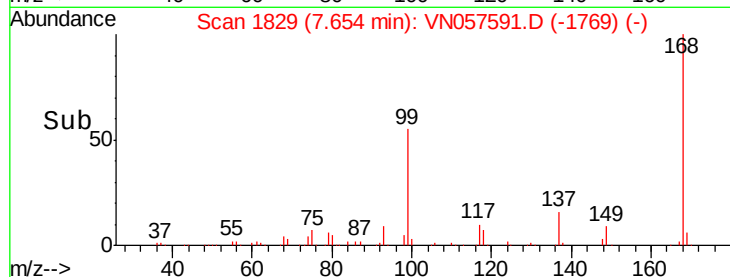
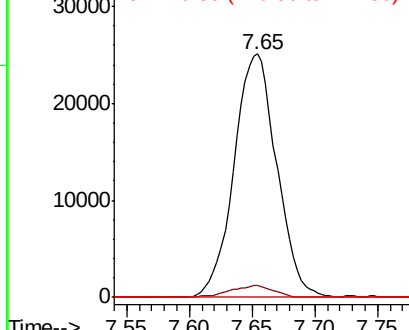
117 100

119 5.1 76.2 114.4#

121 0.0 23.8 35.6#



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: 1.323 ug/l

RT: 7.14 min Scan# 1669

Delta R.T. -0.02 min

Lab File: VN057591.D

Acq: 30 Aug 2019 16:40

Tgt Ion: 41 Resp: 176

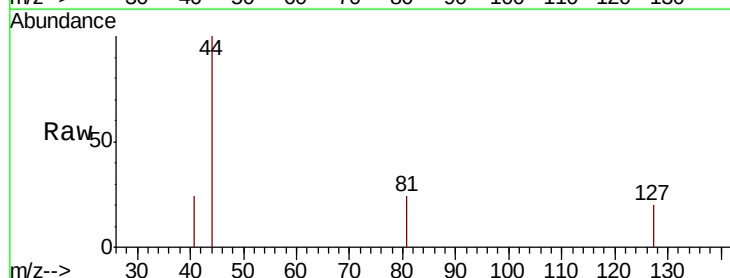
Ion Ratio Lower Upper

41 100

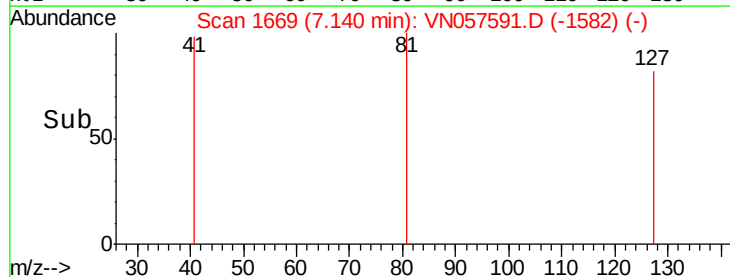
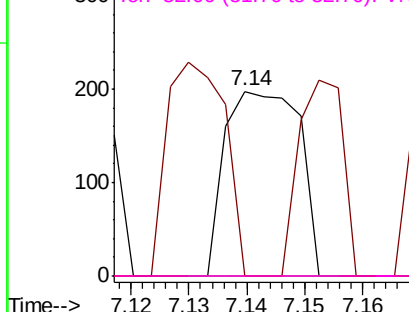
39 90.9 53.6 80.4#

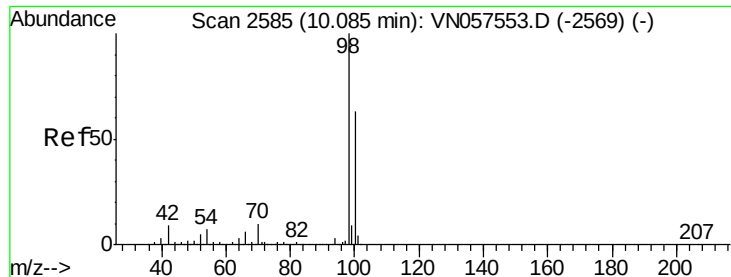
67 0.0 65.4 98.2#

52 0.0 29.8 44.6#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

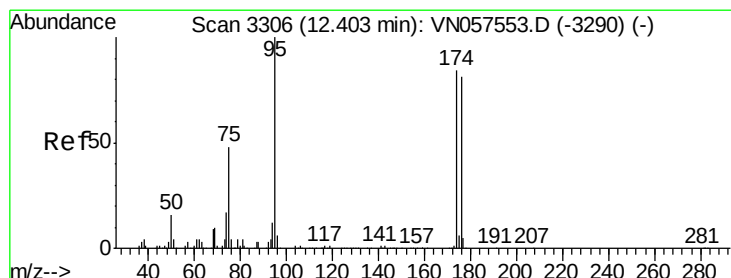
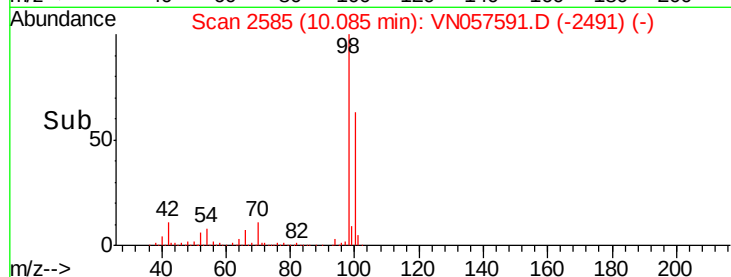
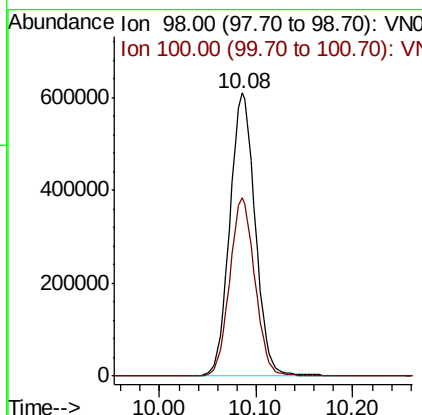
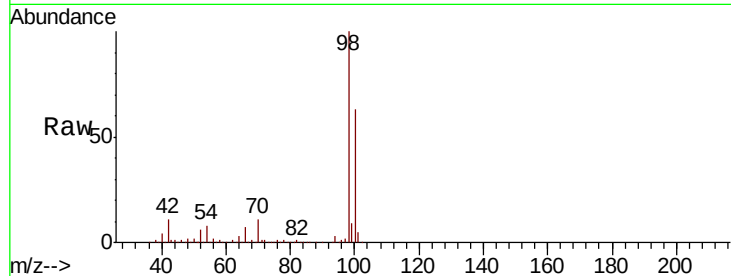




#50
Toluene-d8
Concen: 37.753 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057591.D
Acq: 30 Aug 2019 16:40

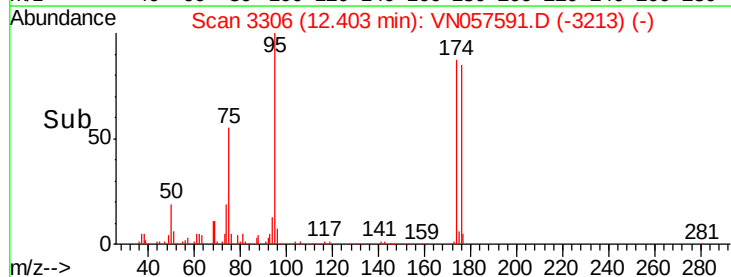
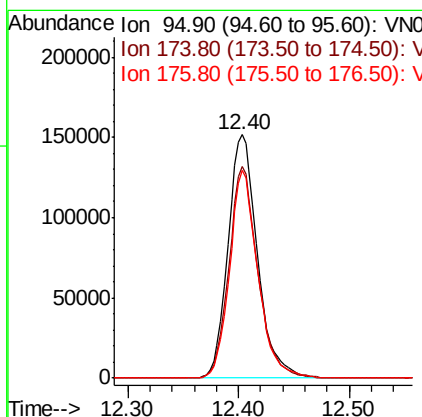
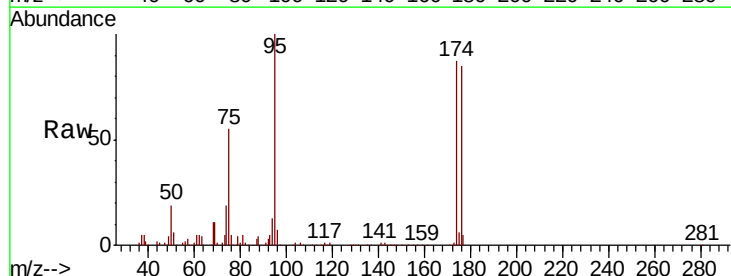
Instrument :
MSVOA_N
ClientSampleId :
VN0831WBL01

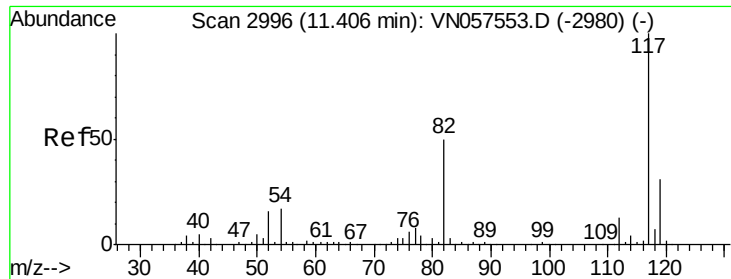
Tgt Ion: 98 Resp: 1115082
Ion Ratio Lower Upper
98 100
100 62.4 50.4 75.6



#62
4-Bromofluorobenzene
Concen: 28.322 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057591.D
Acq: 30 Aug 2019 16:40

Tgt Ion: 95 Resp: 280797
Ion Ratio Lower Upper
95 100
174 85.2 0.0 133.0
176 81.9 0.0 130.8

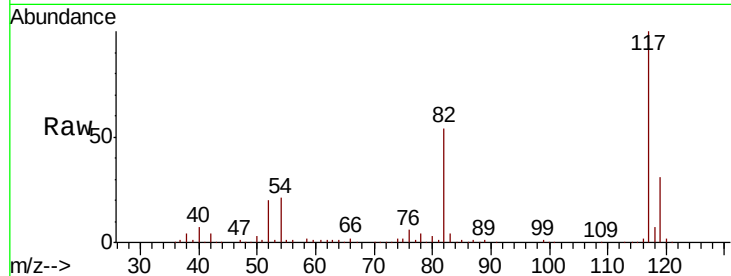




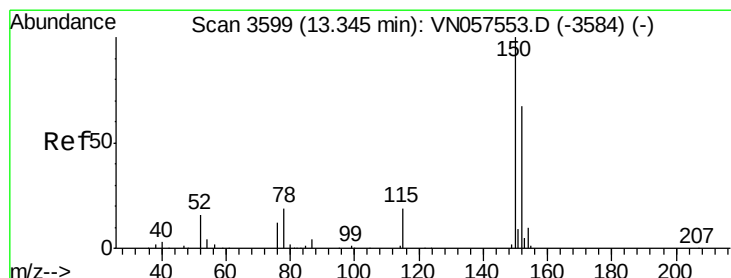
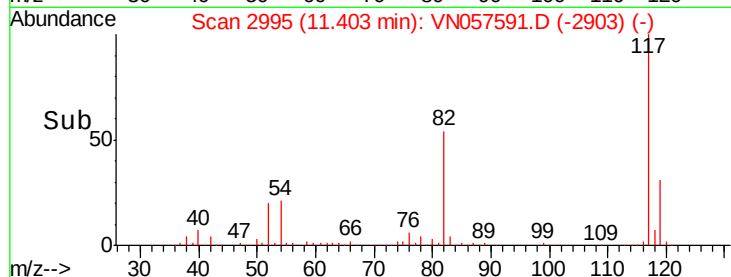
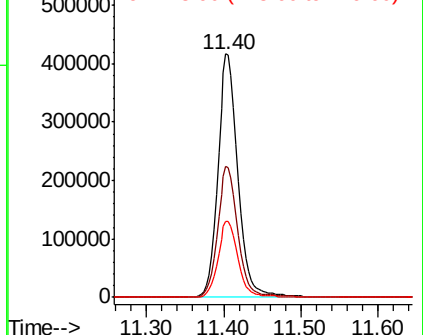
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN057591.D
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_N
ClientSampled :
VN0831WBL01

Tgt Ion:117 Resp: 756558
Ion Ratio Lower Upper
117 100
82 53.6 50.6 75.8
119 31.2 24.6 36.8

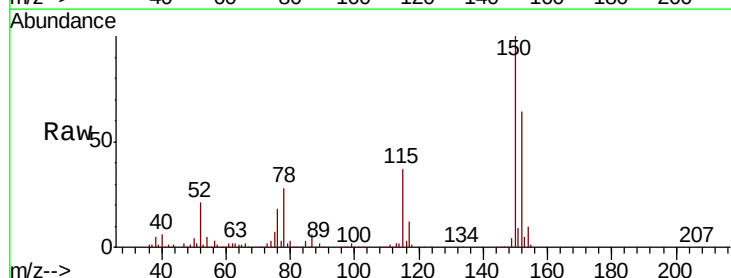


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

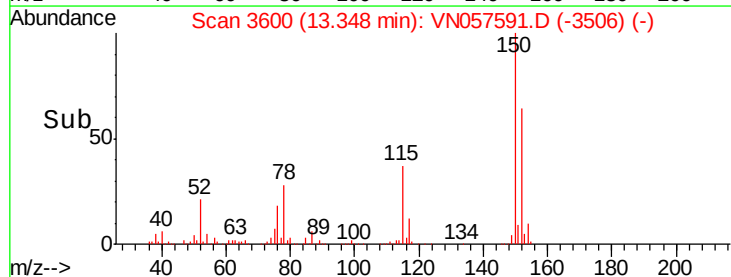
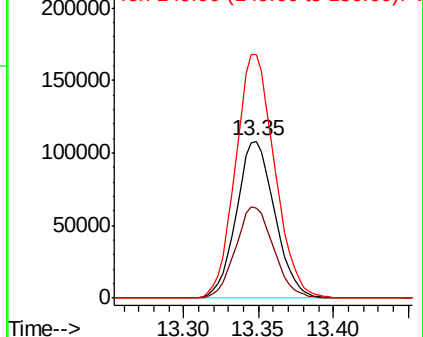


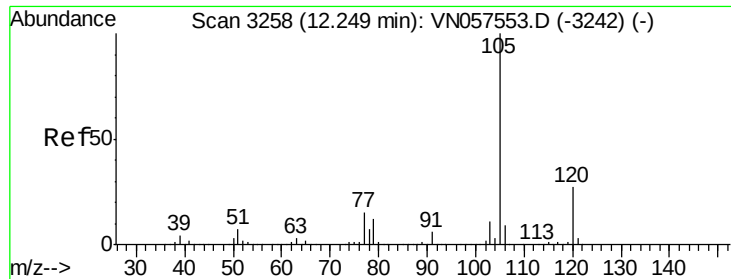
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057591.D
Acq: 30 Aug 2019 16:40

Tgt Ion:152 Resp: 192999
Ion Ratio Lower Upper
152 100
115 58.1 32.0 96.0
150 158.4 0.0 346.6



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: 12.24 min Scan# 3255

Delta R.T. -0.01 min

Lab File: VN057591.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_N

ClientSampleId :

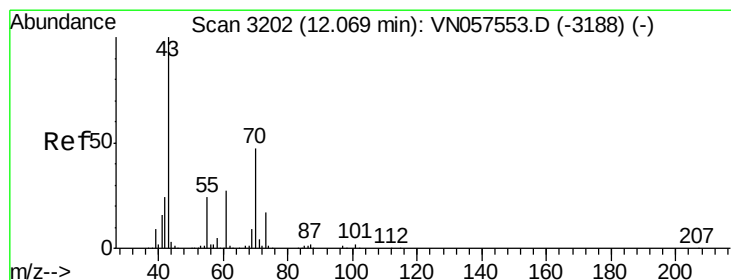
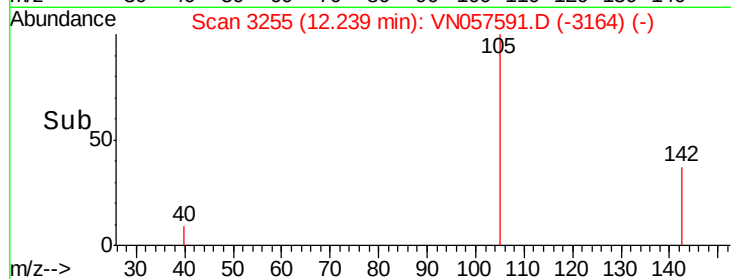
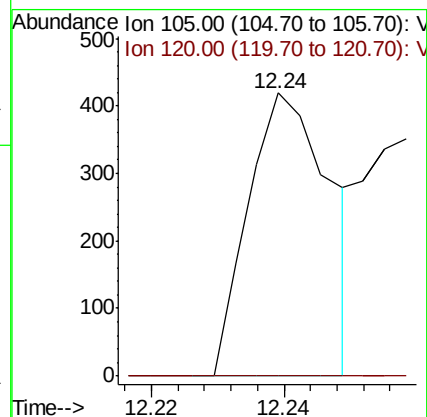
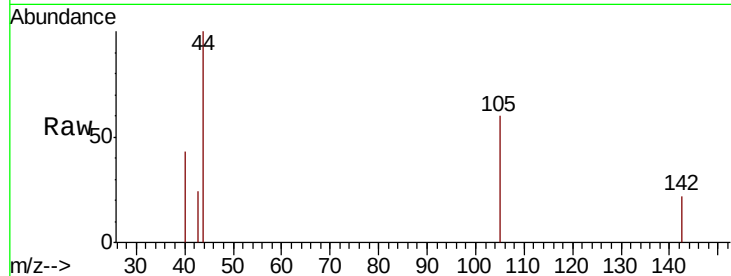
VN0831WBL01

Tgt Ion: 105 Resp: 360

Ion Ratio Lower Upper

105 100

120 0.0 12.7 38.0#



#74

N-amyl acetate

Concen: Below Cal

RT: 12.06 min Scan# 3200

Delta R.T. -0.01 min

Lab File: VN057591.D

Acq: 30 Aug 2019 16:40

Tgt Ion: 43 Resp: 215

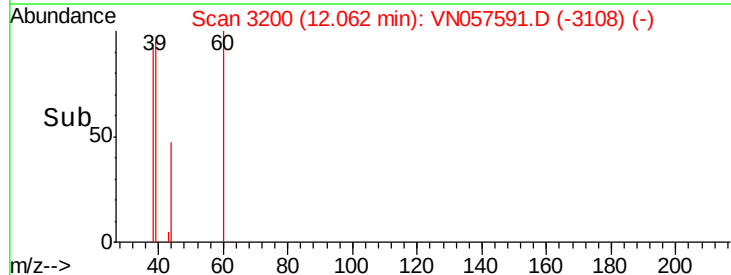
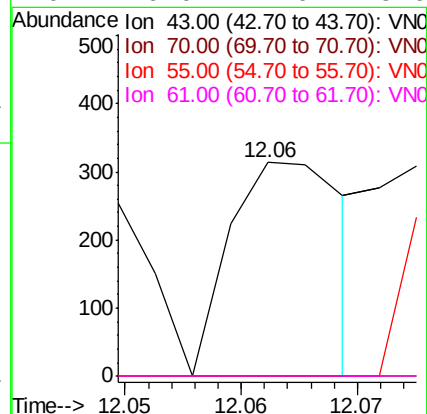
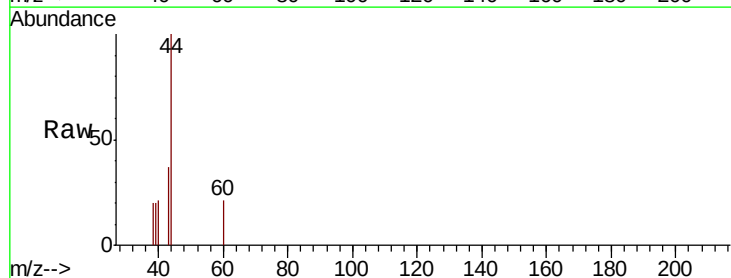
Ion Ratio Lower Upper

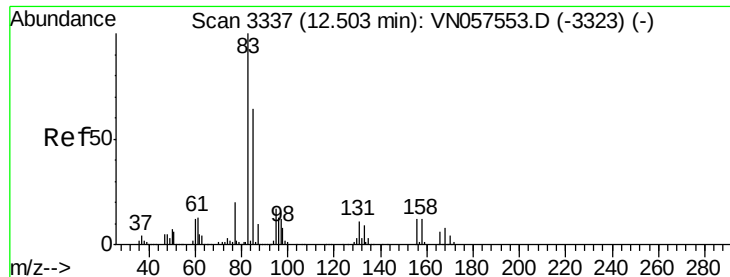
43 100

70 0.0 27.8 41.6#

55 41.9 17.0 25.4#

61 0.0 17.0 25.6#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3308

Delta R.T. -0.09 min

Lab File: VN057591.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBL01

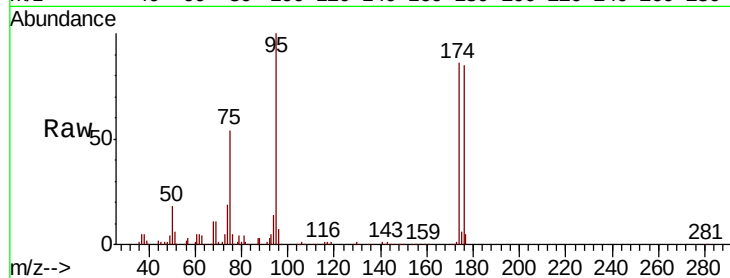
Tgt Ion: 83 Resp: 164

Ion Ratio Lower Upper

83 100

131 43.9 4.3 13.1#

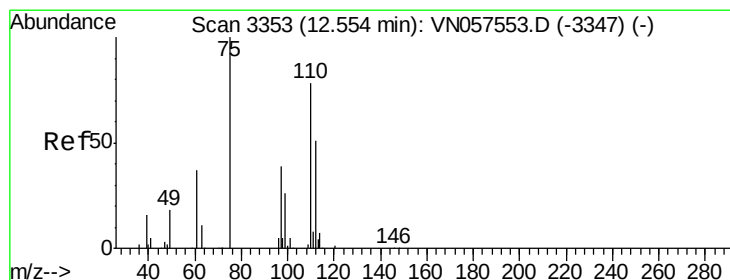
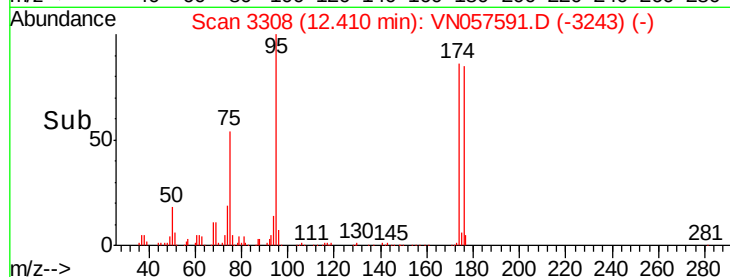
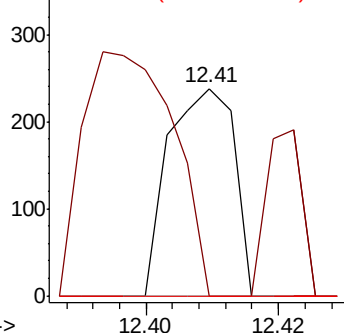
85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 42.731 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057591.D

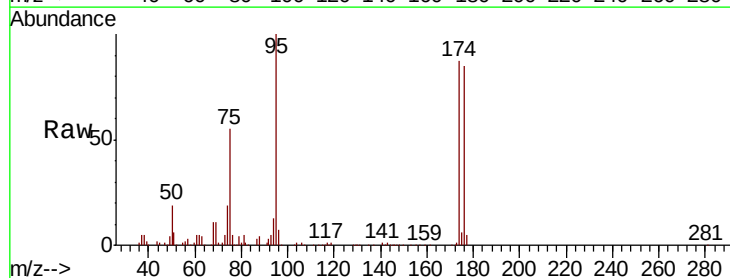
Acq: 30 Aug 2019 16:40

Tgt Ion: 75 Resp: 153397

Ion Ratio Lower Upper

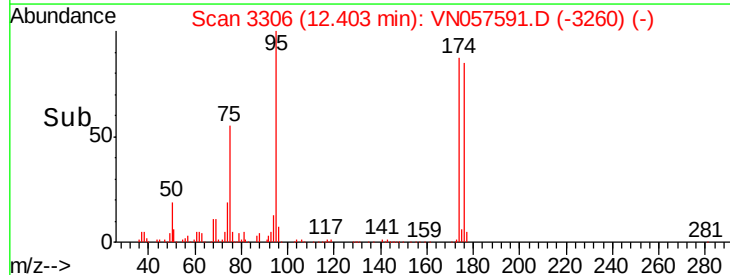
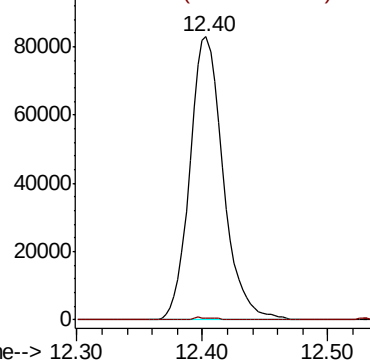
75 100

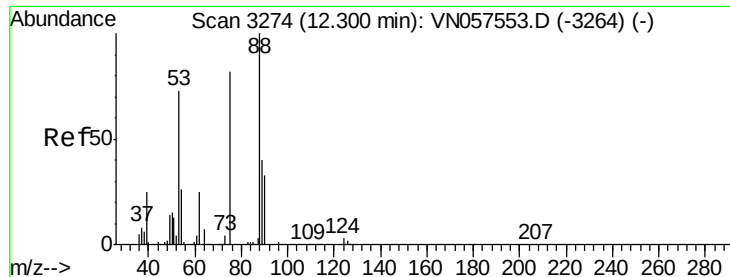
77 0.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

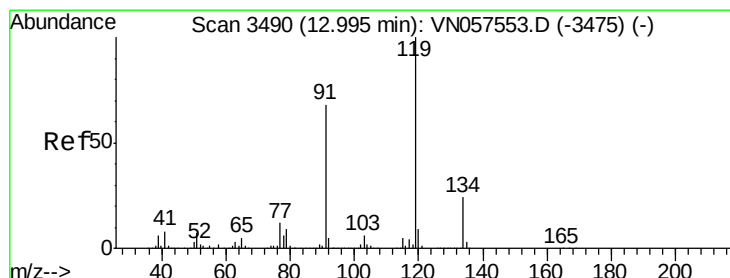
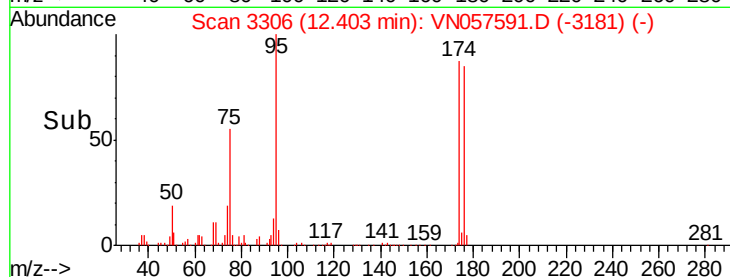
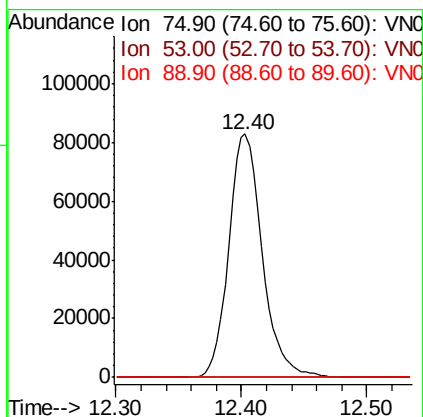
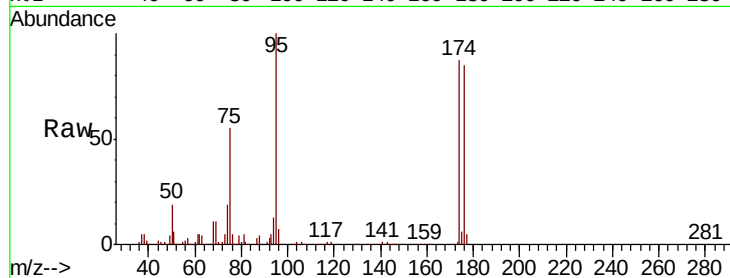




#81
 trans-1,4-Dichloro-2-butene
 Concen: 119.512 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057591.D
 Acq: 30 Aug 2019 16:40

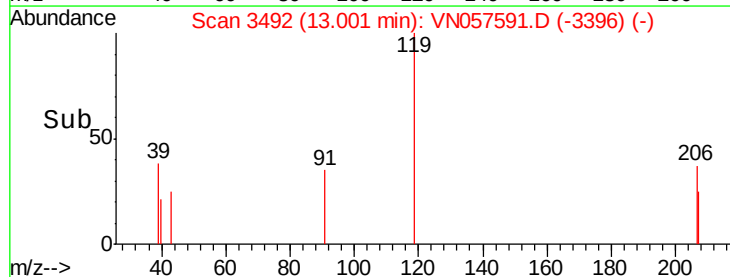
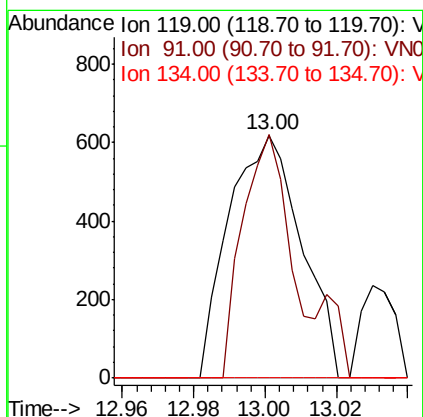
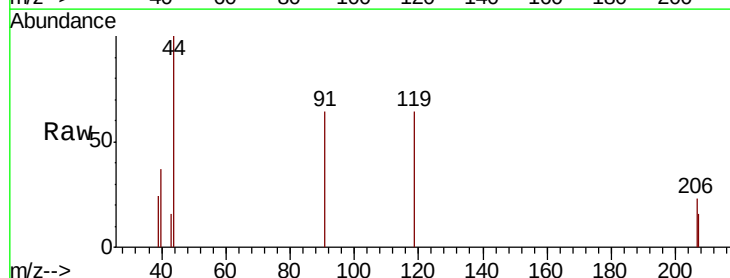
Instrument :
 MSVOA_N
 ClientSampled :
 VN0831WBL01

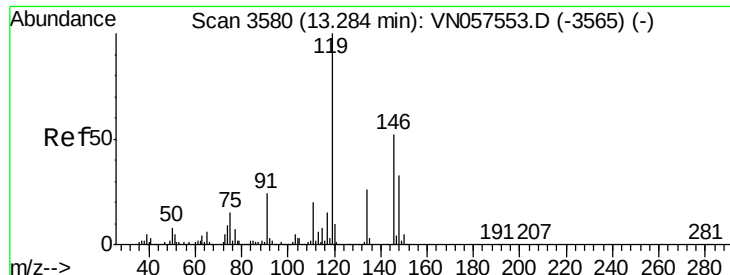
Tgt Ion: 75 Resp: 153397
 Ion Ratio Lower Upper
 75 100
 53 0.0 82.7 124.1#
 89 0.0 35.8 53.8#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.00 min Scan# 3492
 Delta R.T. 0.01 min
 Lab File: VN057591.D
 Acq: 30 Aug 2019 16:40

Tgt Ion: 119 Resp: 869
 Ion Ratio Lower Upper
 119 100
 91 75.6 37.0 111.0
 134 0.0 12.2 36.6#





#87

1,3-Dichlorobenzene

Concen: 0.205 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.01 min

Lab File: VN057591.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBL01

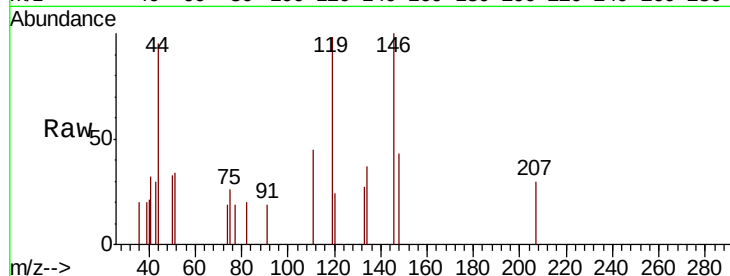
Tgt Ion:146 Resp: 1420

Ion Ratio Lower Upper

146 100

111 40.6 22.1 66.1

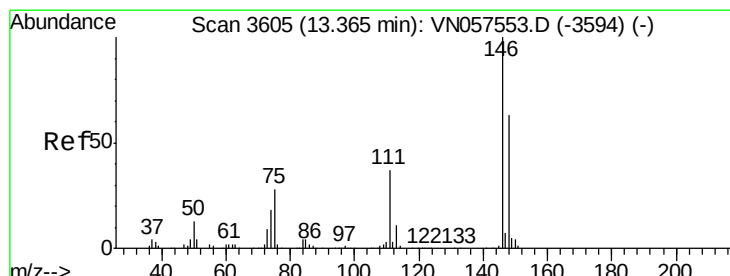
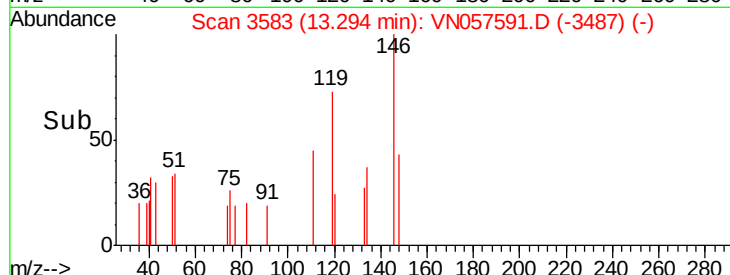
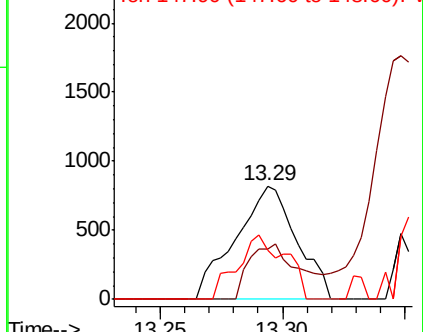
148 44.6 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.214 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. -0.07 min

Lab File: VN057591.D

Acq: 30 Aug 2019 16:40

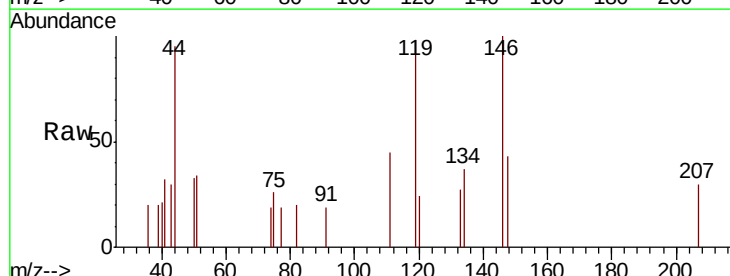
Tgt Ion:146 Resp: 1420

Ion Ratio Lower Upper

146 100

111 40.6 21.9 65.5

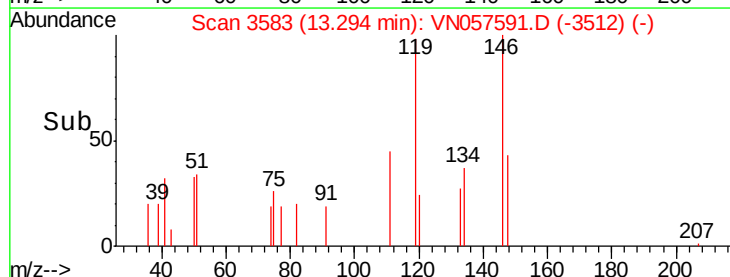
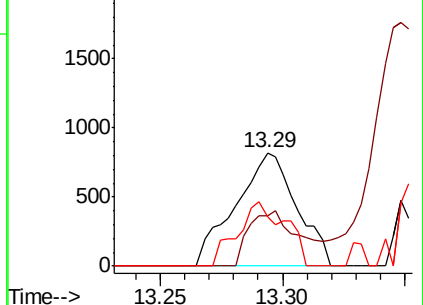
148 44.6 31.1 93.2

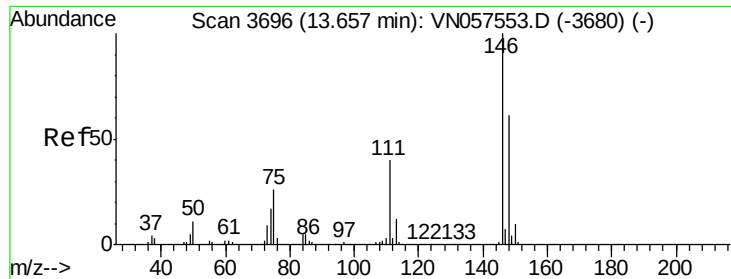


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

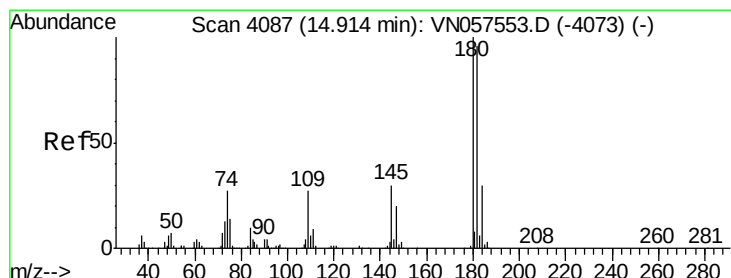
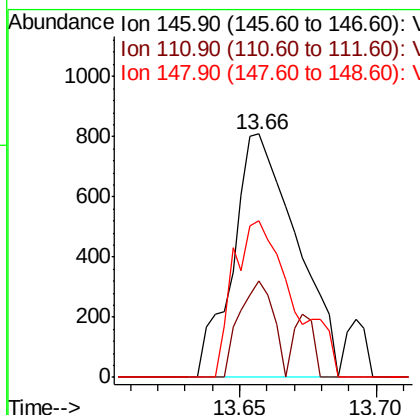
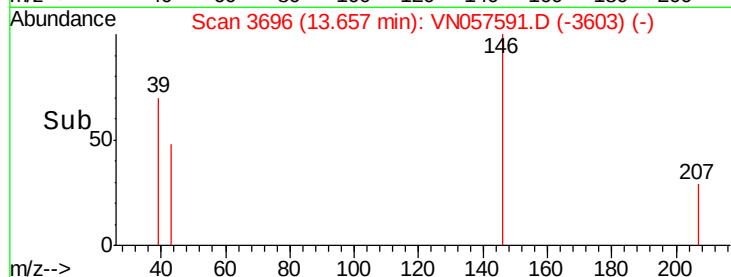
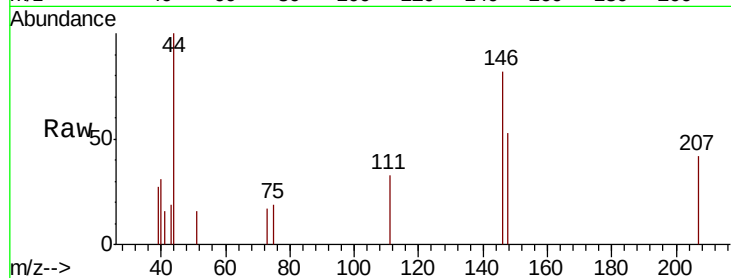




#91
 1,2-Dichlorobenzene
 Concen: 0.203 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. -0.00 min
 Lab File: VN057591.D
 Acq: 30 Aug 2019 16:40

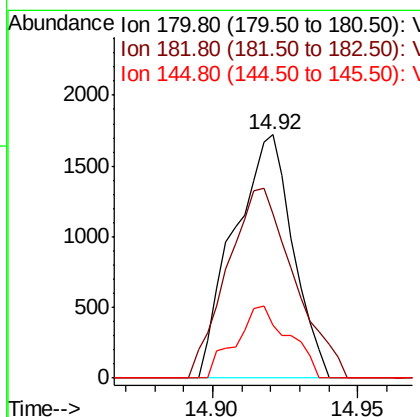
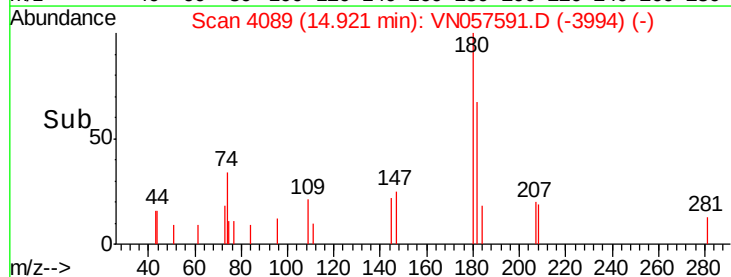
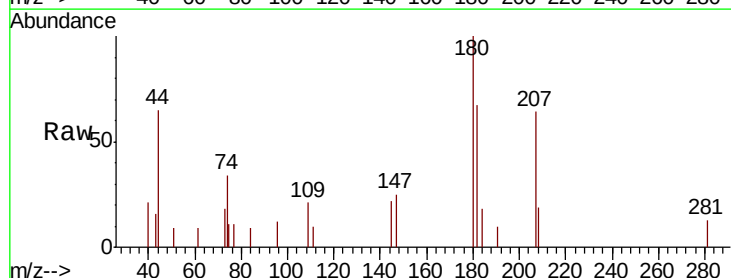
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBL01

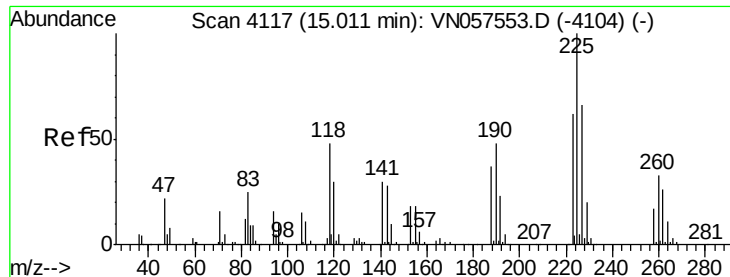
Tgt Ion:146 Resp: 1312
 Ion Ratio Lower Upper
 146 100
 111 21.1 23.1 69.2#
 148 60.4 31.8 95.4



#93
 1,2,4-Trichlorobenzene
 Concen: 4.617 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN057591.D
 Acq: 30 Aug 2019 16:40

Tgt Ion:180 Resp: 2414
 Ion Ratio Lower Upper
 180 100
 182 89.0 46.7 140.1
 145 26.8 15.6 46.8





#94

Hexachlorobutadiene

Concen: 0.205 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VN057591.D

Acq: 30 Aug 2019 16:40

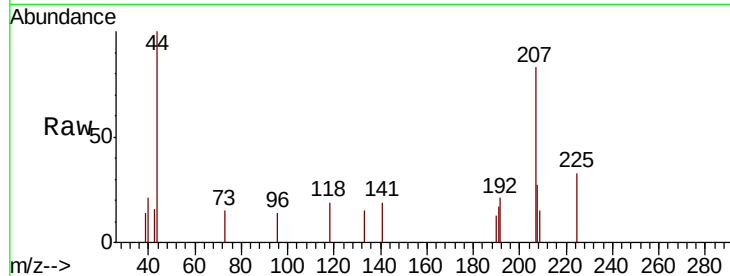
Instrument :

MSVOA_N

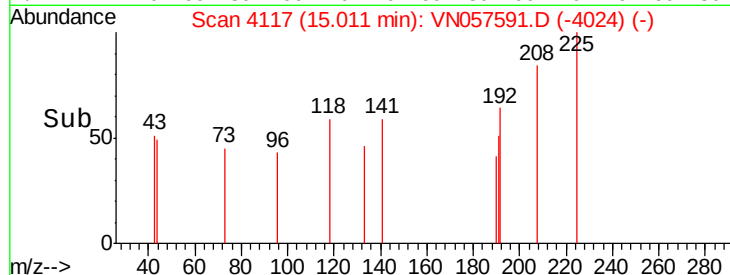
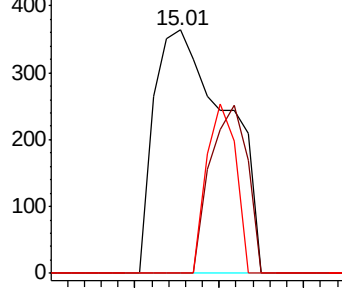
ClientSampleId :

VN0831WBL01

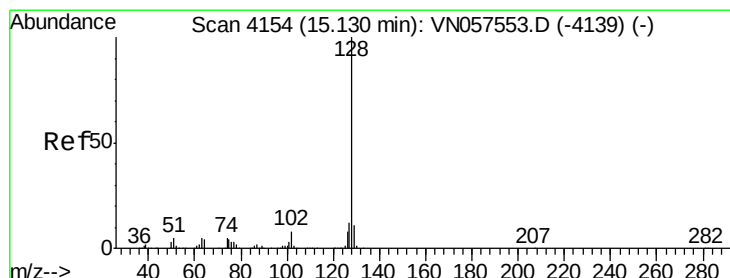
Tgt Ion:	225	Resp:	437
Ion	Ratio	Lower	Upper
225	100		
223	35.0	32.0	96.2
227	27.9	31.5	94.5#



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



Time-->



#95

Naphthalene

Concen: 0.638 ug/l

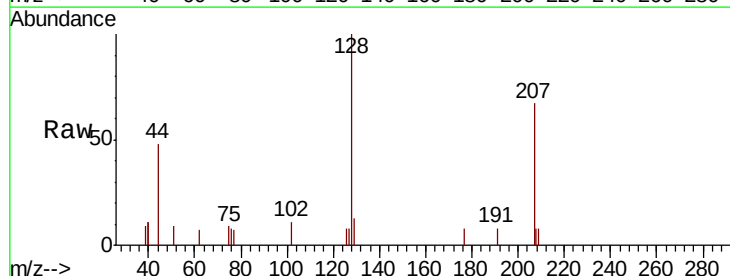
RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

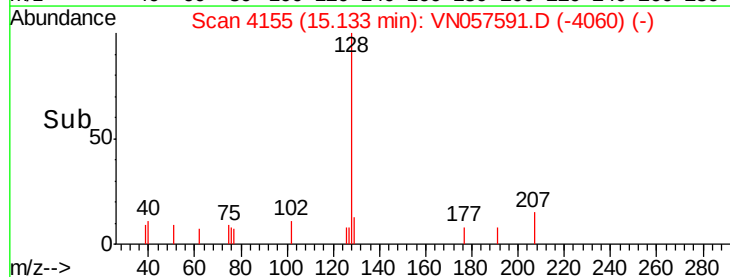
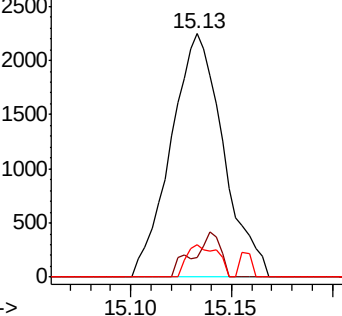
Lab File: VN057591.D

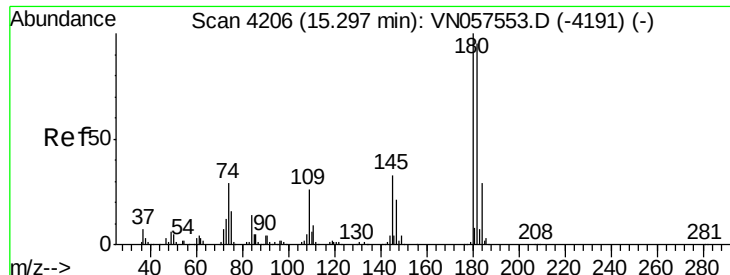
Acq: 30 Aug 2019 16:40

Tgt Ion:	128	Resp:	4073
Ion	Ratio	Lower	Upper
128	100		
127	9.6	10.5	15.7#
129	7.8	8.6	13.0#



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: 0.915 ug/l
 RT: 15.29 min Scan# 4205
 Delta R.T. -0.00 min
 Lab File: VN057591.D
 Acq: 30 Aug 2019 16:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBL01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	111.5	46.7	140.1
145	39.3	16.8	50.3

