

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN093019\
 Data File : VN058424.D
 Acq On : 30 Sep 2019 11:09
 Operator : JC/SP
 Sample : PB123437TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 01 01:29:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	441810	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	727893	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	624581	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	243226	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	315770	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
35) Dibromofluoromethane	7.57	113	222562	49.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.78%	
50) Toluene-d8	10.08	98	917516	52.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.00%	
62) 4-Bromofluorobenzene	12.40	95	288644	45.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.36%	

Target Compounds

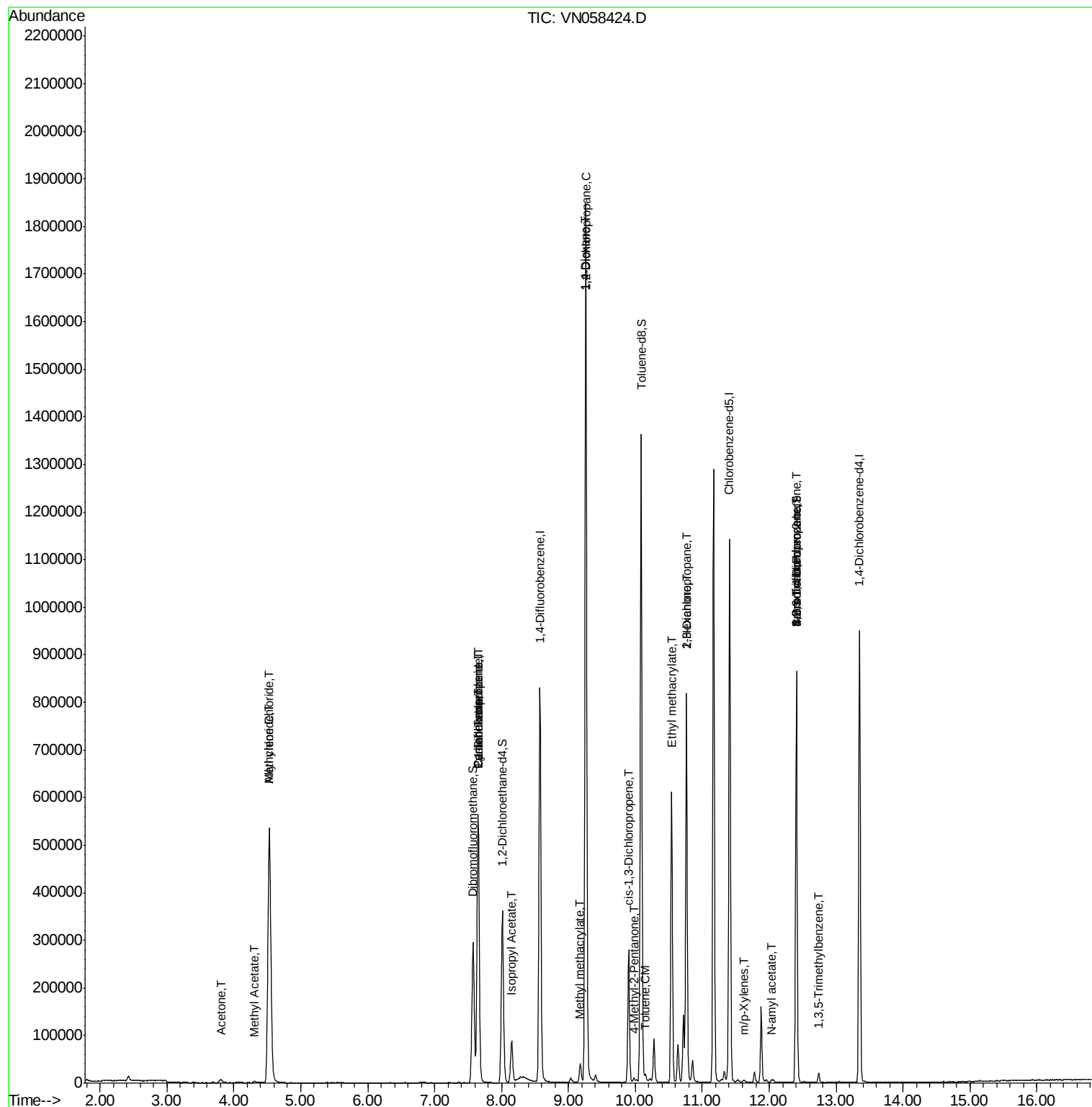
						Qvalue
14) Allyl chloride	4.53	41	14701	1.938	ug/l #	21
16) Acetone	3.80	43	12775	5.804	ug/l	91
18) Methyl Acetate	4.32	43	5085	0.919	ug/l #	87
20) Methylene Chloride	4.53	84	395564	77.881	ug/l	99
31) Cyclohexane	7.65	56	10966	1.227	ug/l #	35
36) 1,1-Dichloropropene	7.65	75	39322	5.650	ug/l #	52
38) Carbon Tetrachloride	7.65	117	44626	7.103	ug/l #	15
43) Isopropyl Acetate	8.15	43	107691	9.705	ug/l	99
45) 1,2-Dichloropropane	9.26	63	2257	0.421	ug/l #	43
48) Methyl methacrylate	9.17	41	5814	1.151	ug/l #	13
49) 1,4-Dioxane	9.25	88	74	1.095	ug/l #	21
51) 4-Methyl-2-Pentanone	9.98	43	5790	1.016	ug/l	89
52) Toluene	10.15	92	4967	0.394	ug/l	94
54) cis-1,3-Dichloropropene	9.90	75	46592	5.990	ug/l #	67
56) Ethyl methacrylate	10.54	69	1969	0.283	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	8467	1.035	ug/l #	43
59) 2-Hexanone	10.76	43	124564	30.013	ug/l #	53
68) m/p-Xylenes	11.62	106	1974	0.233	ug/l	87
71) Bromoform	12.39	173	346	0.813	ug/l #	29
74) N-amyl acetate	12.03	43	4854	0.679	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	159567	35.918	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	10164	0.675	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	159567	109.087	ug/l #	7

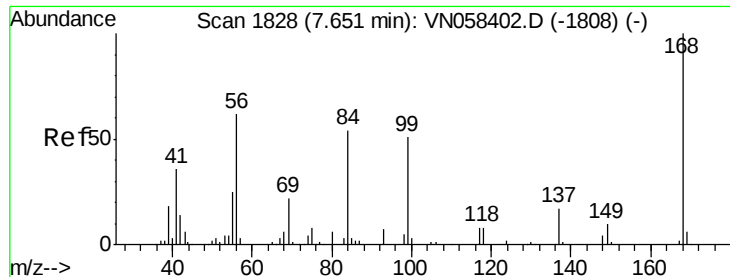
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN093019\
Data File : VN058424.D
Acq On : 30 Sep 2019 11:09
Operator : JC/SP
Sample : PB123437TB
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampled :

Quant Time: Oct 01 01:29:29 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 30 08:07:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058424.D

Acq: 30 Sep 2019 11:09

Instrument :

MSVOA_N

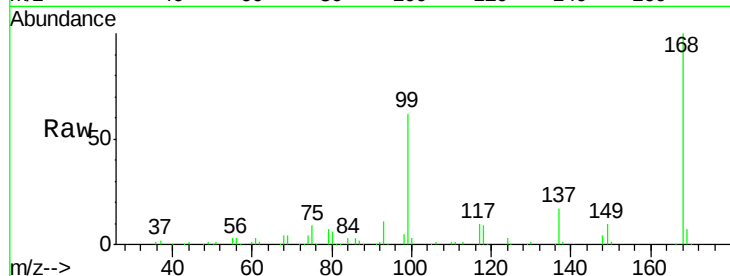
ClientSampleId :

Tot Ion:168 Resp: 441810

Ion Ratio Lower Upper

168 100

99 61.8 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

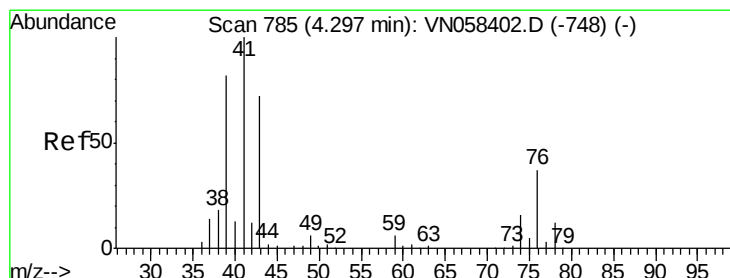
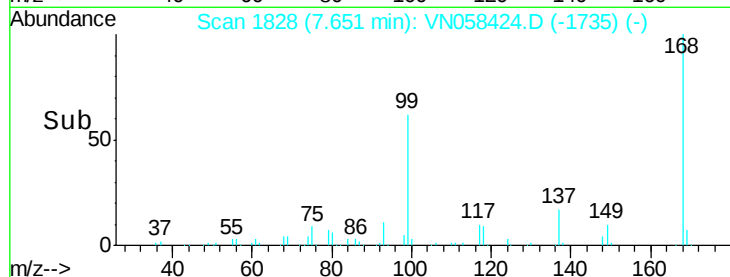
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#14

Allyl chloride

Concen: 1.938 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.23 min

Lab File: VN058424.D

Acq: 30 Sep 2019 11:09

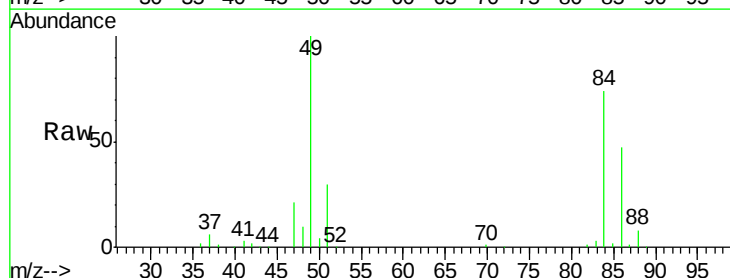
Tgt Ion: 41 Resp: 14701

Ion Ratio Lower Upper

41 100

39 1.5 62.3 93.5#

76 0.0 26.9 40.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

4.53

6000

5000

4000

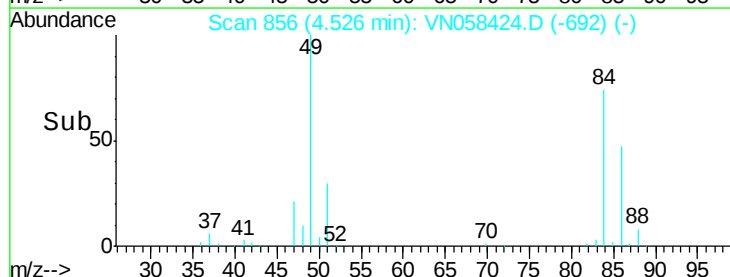
3000

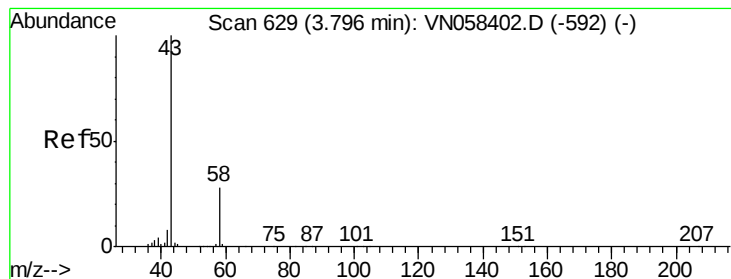
2000

1000

0

Time--> 4.45 4.50 4.55 4.60





#16

Acetone

Concen: 5.804 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058424.D

Acq: 30 Sep 2019 11:09

Instrument :

MSVOA_N

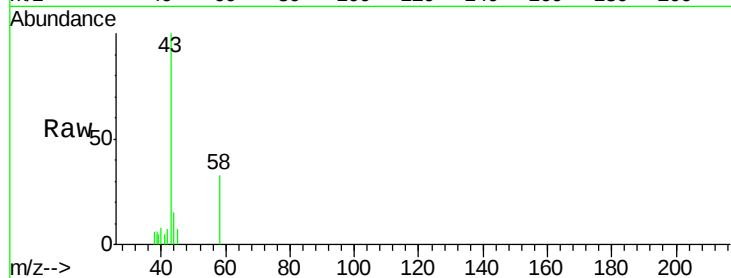
ClientSampleId :

Tot Ion: 43 Resp: 12775

Ion Ratio Lower Upper

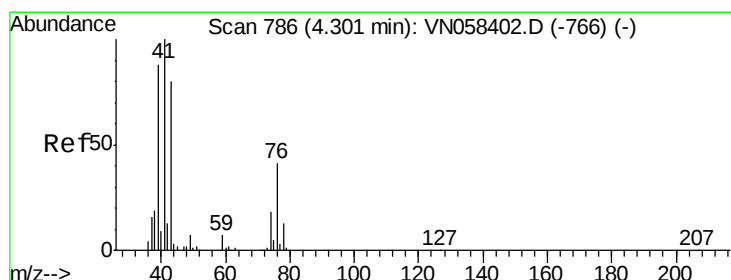
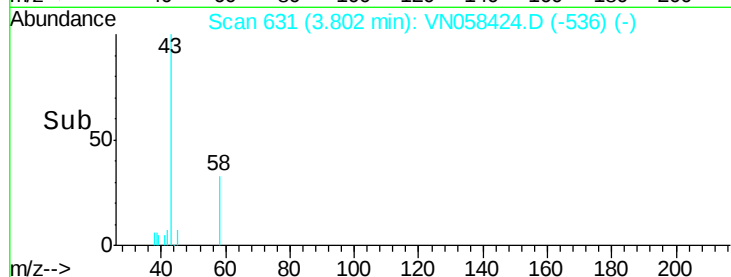
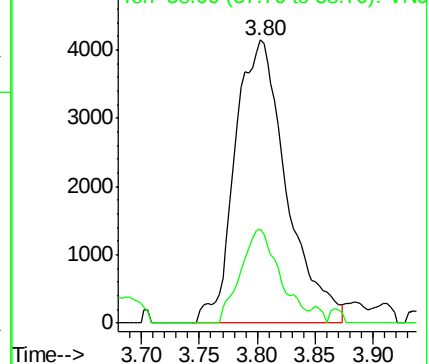
43 100

58 33.0 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.919 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.02 min

Lab File: VN058424.D

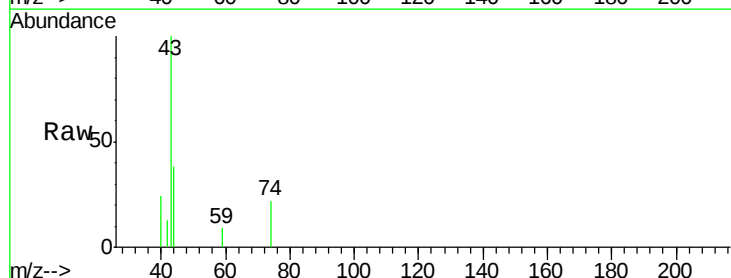
Acq: 30 Sep 2019 11:09

Tgt Ion: 43 Resp: 5085

Ion Ratio Lower Upper

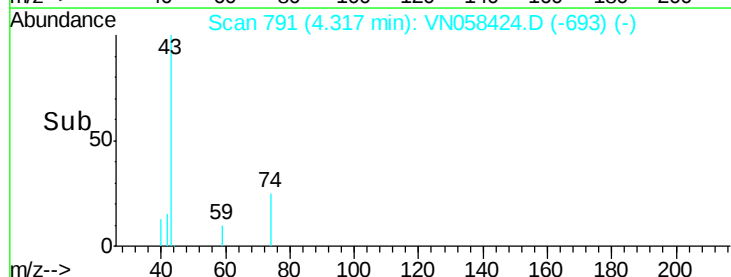
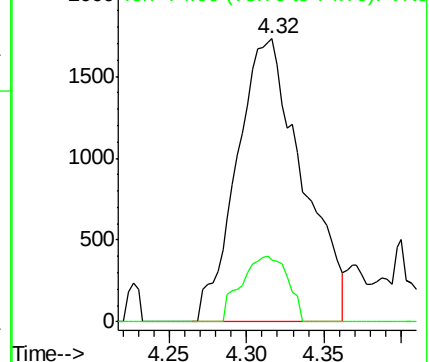
43 100

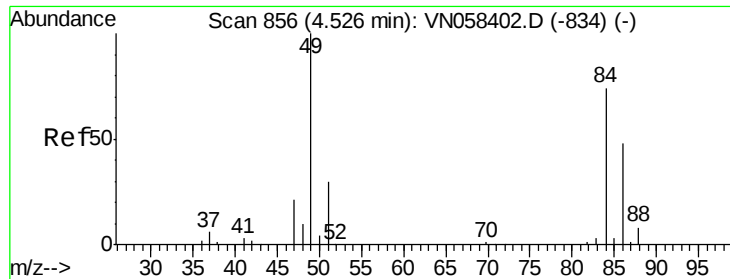
74 16.4 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

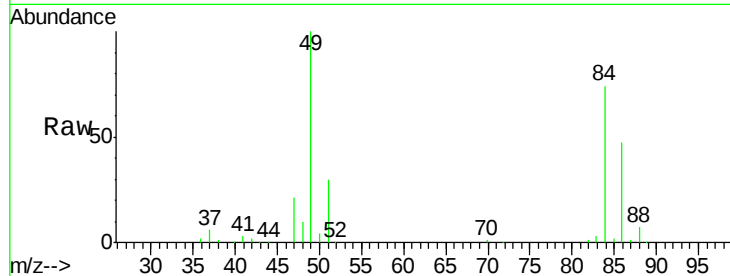




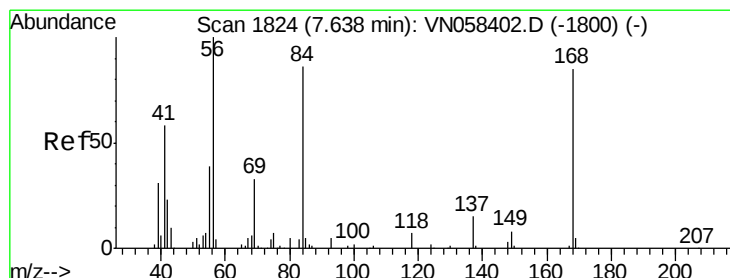
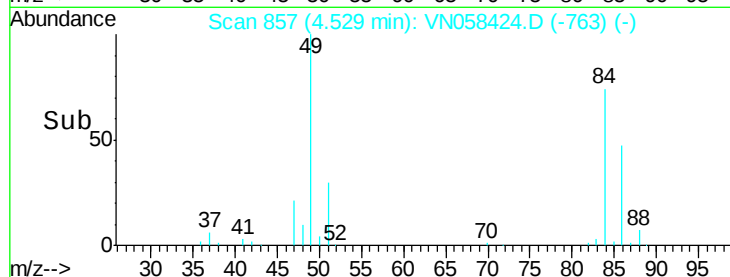
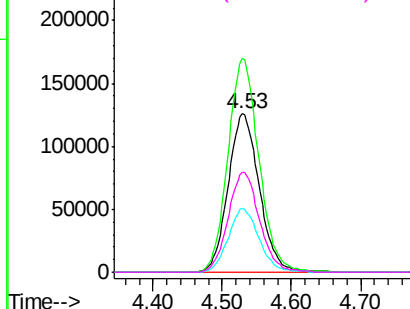
#20
Methvlene Chloride
Concen: 77.881 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058424.D
Acq: 30 Sep 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 395564
Ion Ratio Lower Upper
84 100
49 134.9 107.9 161.9
51 40.2 32.8 49.2
86 63.3 51.5 77.3

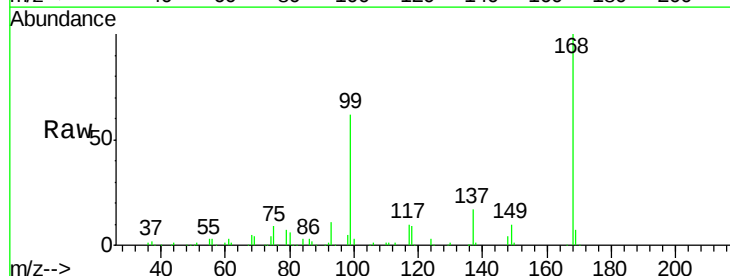


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

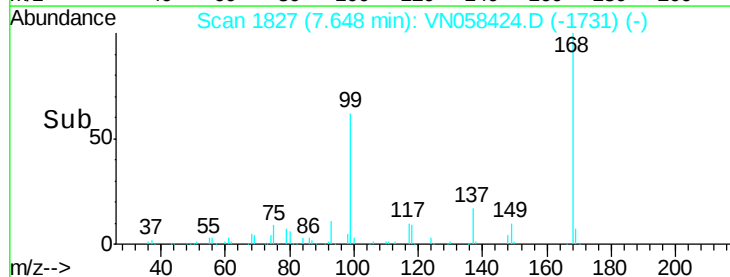
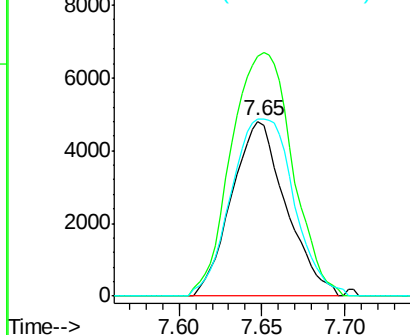


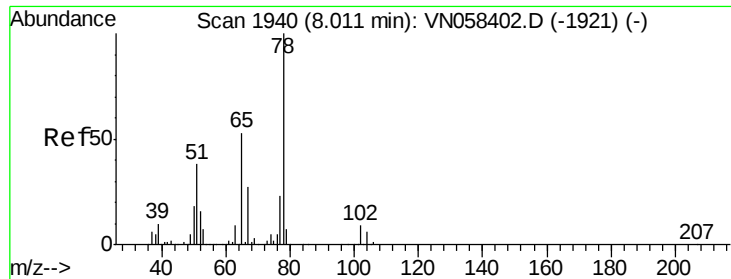
#31
Cyclohexane
Concen: 1.227 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058424.D
Acq: 30 Sep 2019 11:09

Tgt Ion: 56 Resp: 10966
Ion Ratio Lower Upper
56 100
69 137.6 26.2 39.4#
84 101.1 67.6 101.4



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

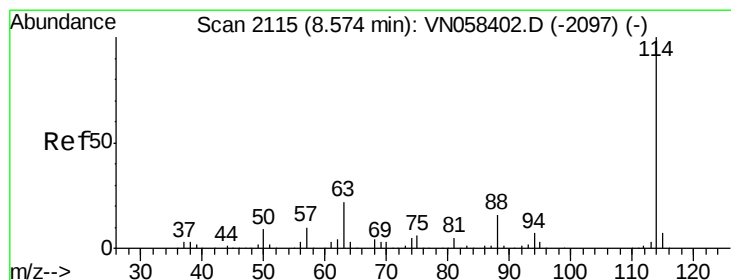
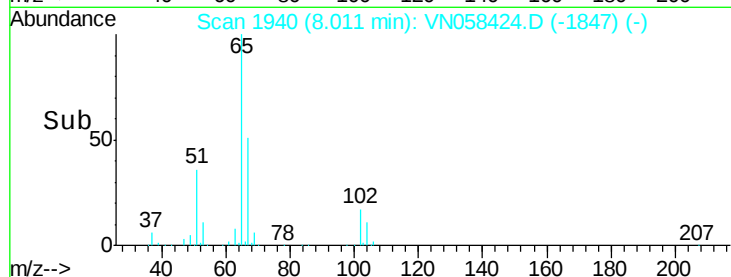
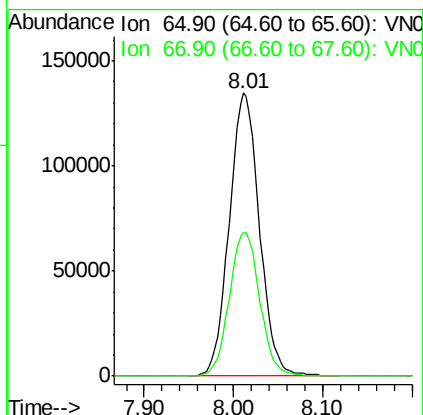
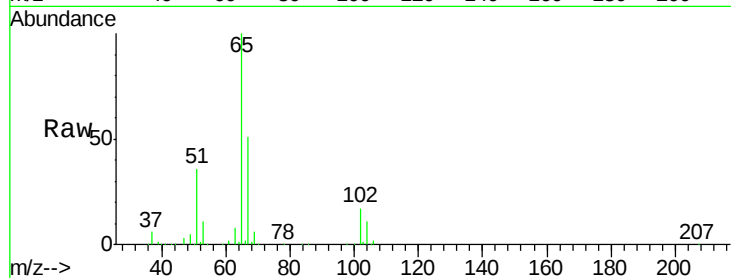




#33
 1,2-Dichloroethane-d4
 Concen: 48.909 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058424.D
 Acq: 30 Sep 2019 11:09

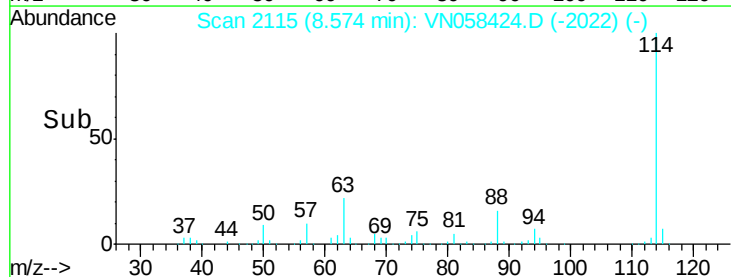
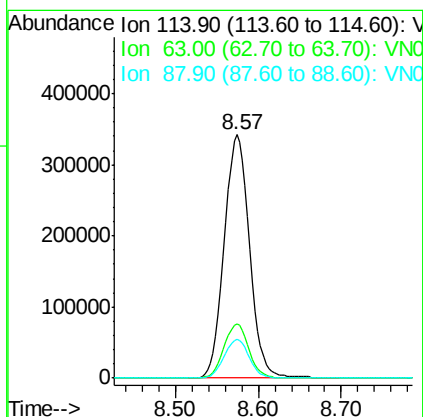
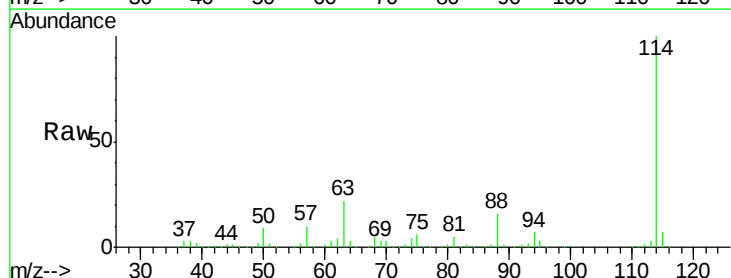
Instrument :
 MSVOA_N
 ClientSampled :

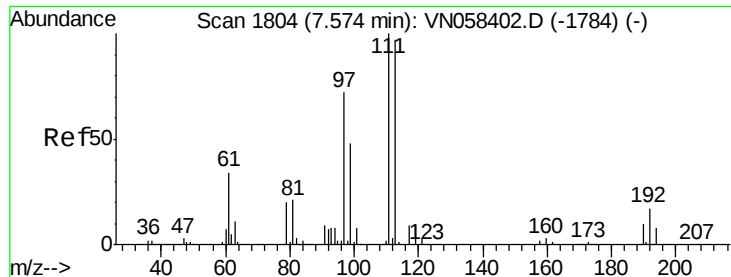
Tot Ion: 65 Resp: 315770
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058424.D
 Acq: 30 Sep 2019 11:09

Tgt Ion: 114 Resp: 727893
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 45.0
 88 15.9 0.0 32.2

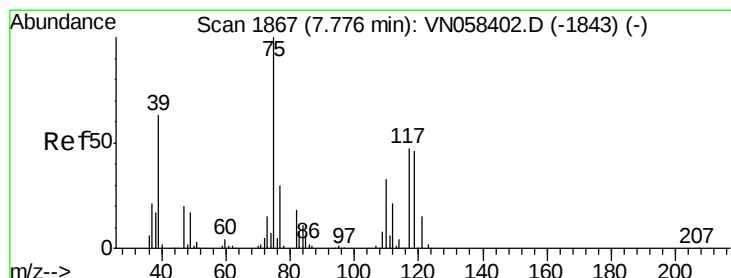
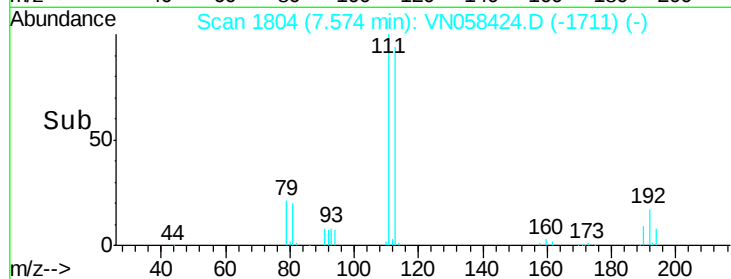
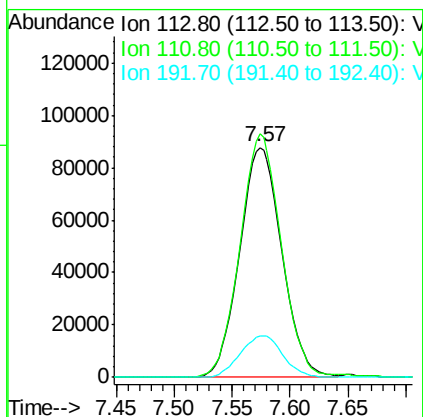
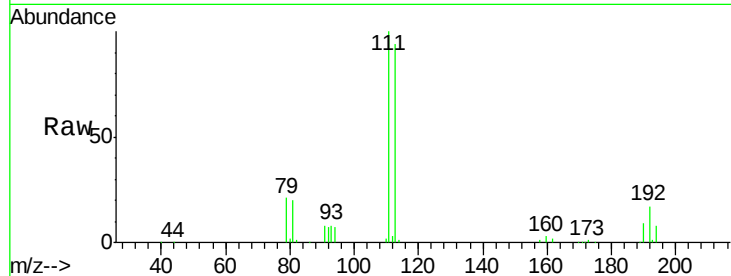




#35
 Dibromofluoromethane
 Concen: 49.889 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058424.D
 Acq: 30 Sep 2019 11:09

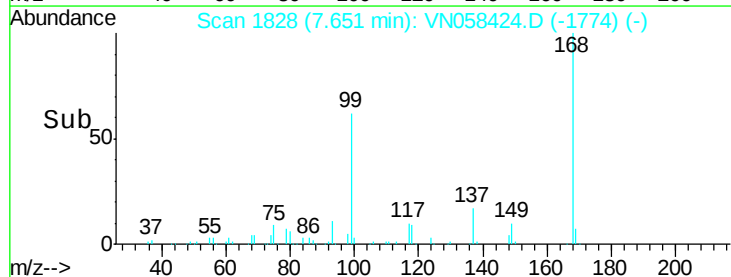
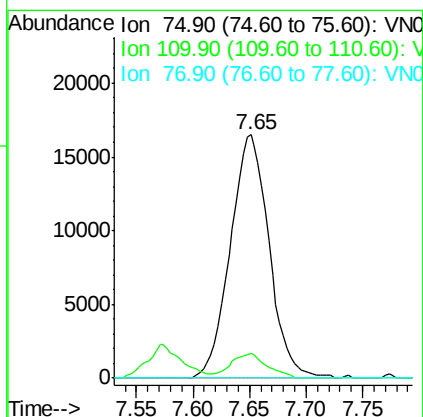
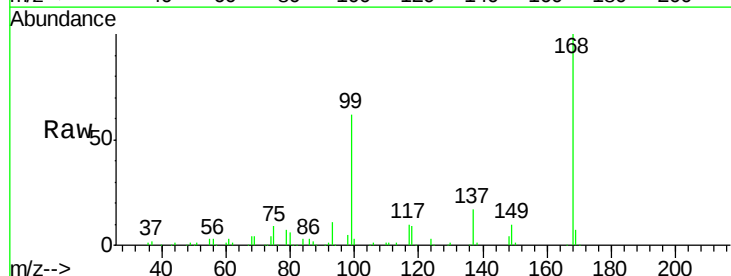
Instrument :
 MSVOA_N
 ClientSampleId :

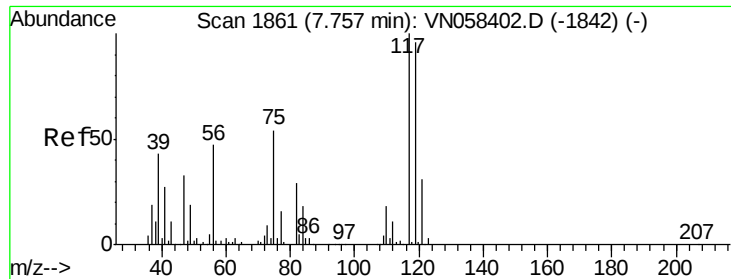
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	83.4	125.2
192	18.3	14.9	22.3



#36
 1,1-Dichloropropene
 Concen: 5.650 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058424.D
 Acq: 30 Sep 2019 11:09

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.4	49.2#
77	0.0	24.3	36.5#

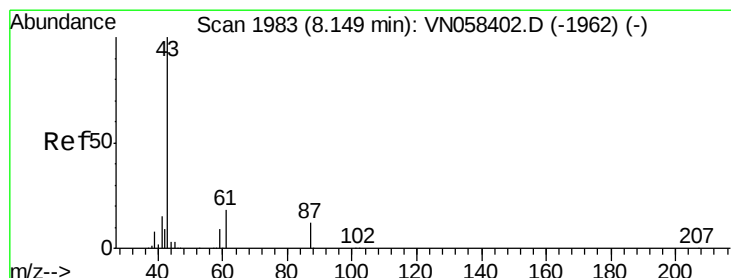
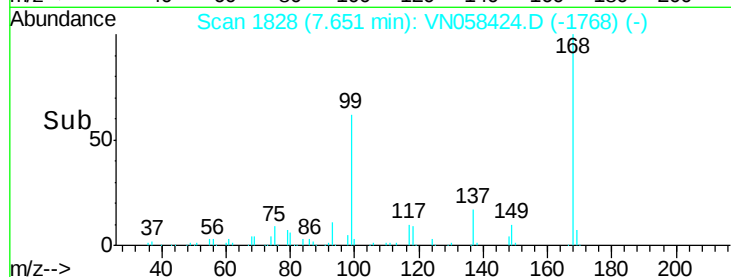
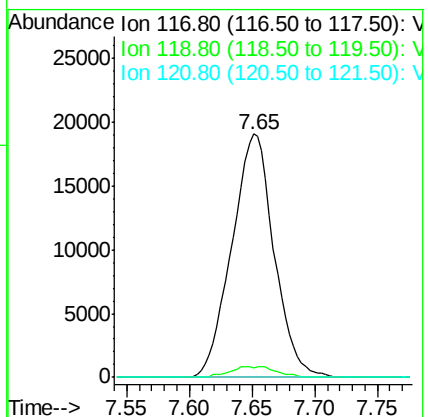
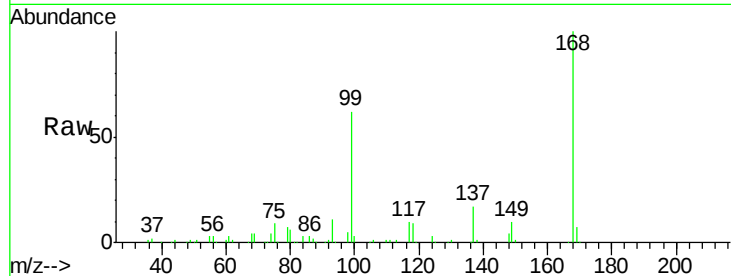




#38
Carbon Tetrachloride
Concen: 7.103 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN058424.D
Acq: 30 Sep 2019 11:09

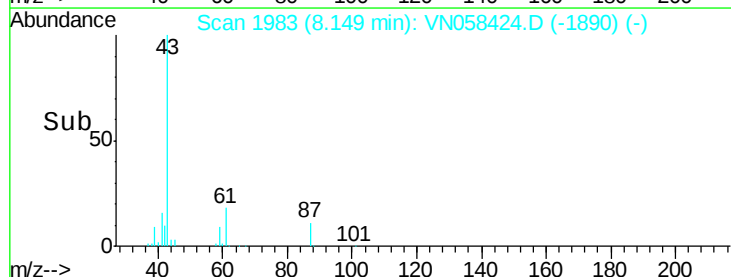
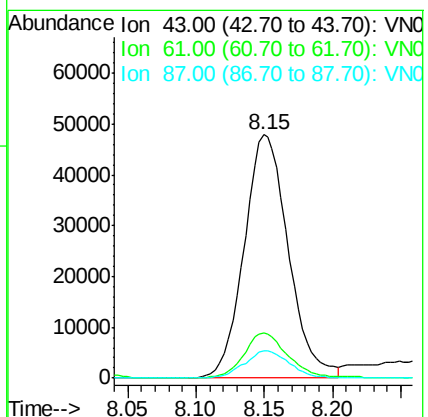
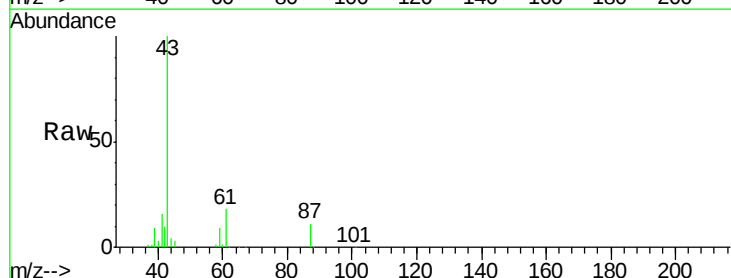
Instrument :
MSVOA_N
ClientSampled :

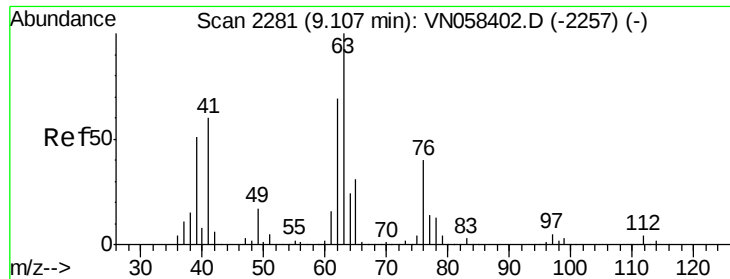
Tot Ion:117 Resp: 44626
Ion Ratio Lower Upper
117 100
119 4.1 76.6 115.0#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 9.705 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VN058424.D
Acq: 30 Sep 2019 11:09

Tgt Ion: 43 Resp: 107691
Ion Ratio Lower Upper
43 100
61 18.3 14.8 22.2
87 11.3 9.7 14.5





#45

1,2-Dichloropropane

Concen: 0.421 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN058424.D

Acq: 30 Sep 2019 11:09

Instrument :

MSVOA_N

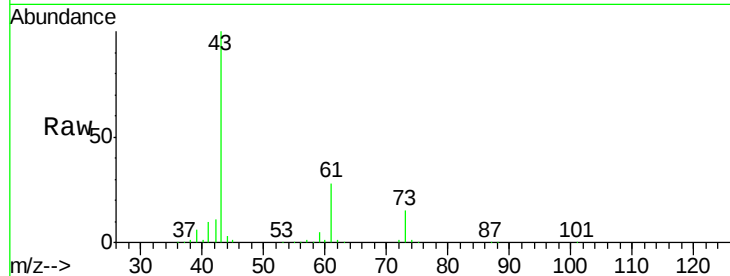
ClientSampleId :

Tot Ion: 63 Resp: 2257

Ion Ratio Lower Upper

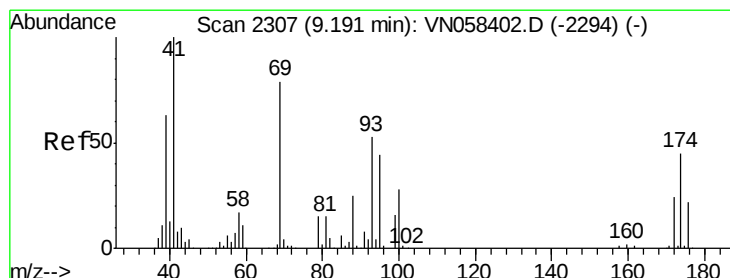
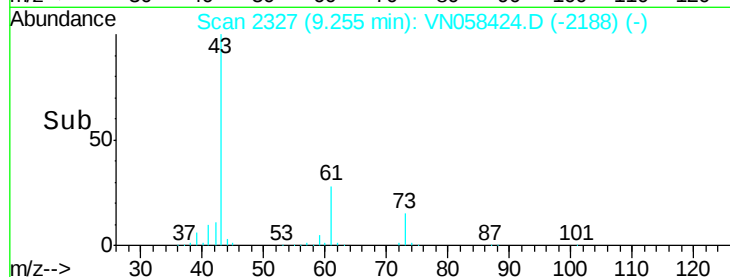
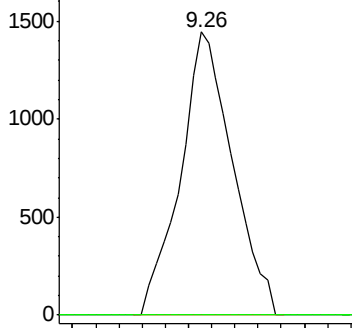
63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.151 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.02 min

Lab File: VN058424.D

Acq: 30 Sep 2019 11:09

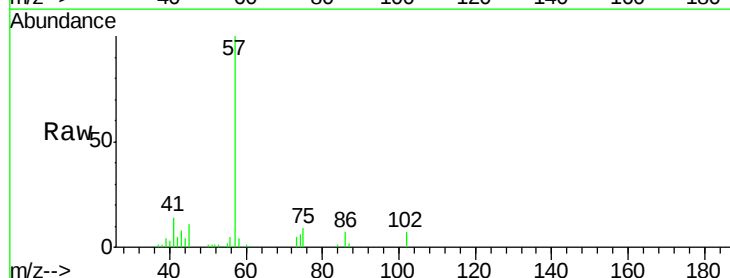
Tgt Ion: 41 Resp: 5814

Ion Ratio Lower Upper

41 100

69 0.0 64.7 97.1#

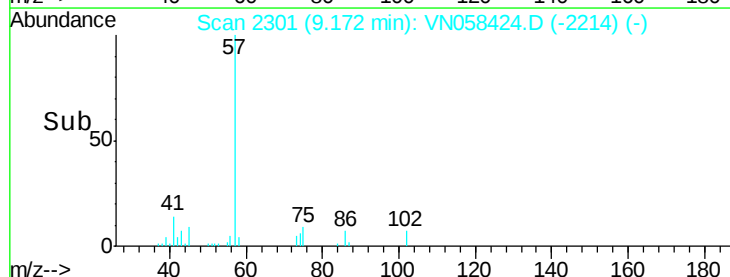
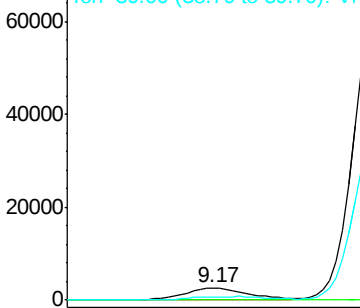
39 0.0 52.9 79.3#

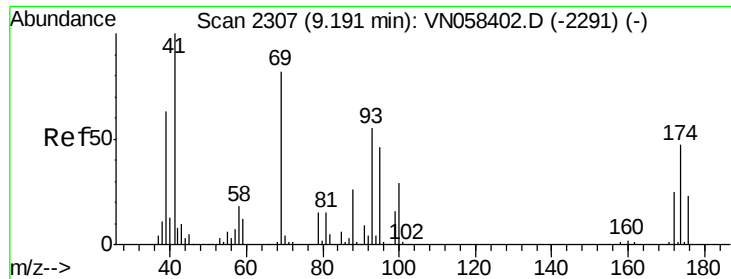


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

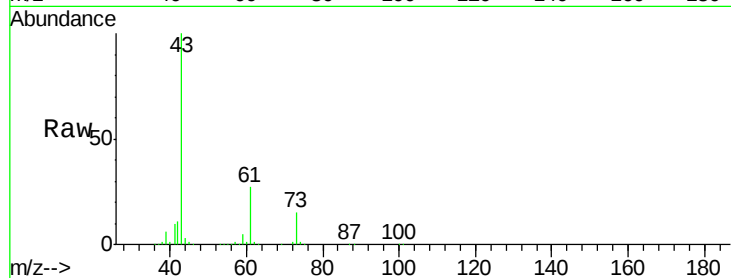




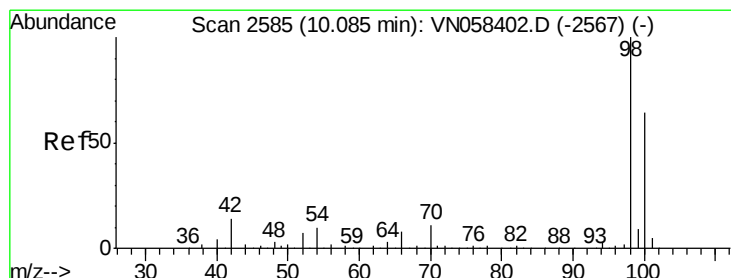
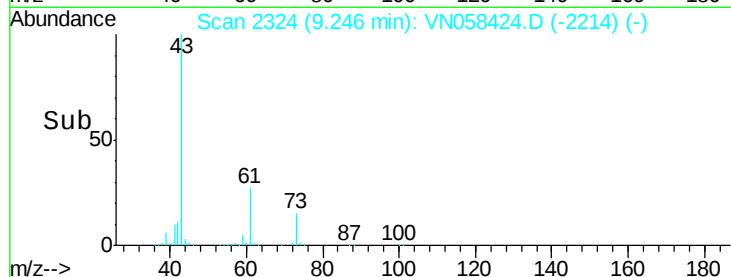
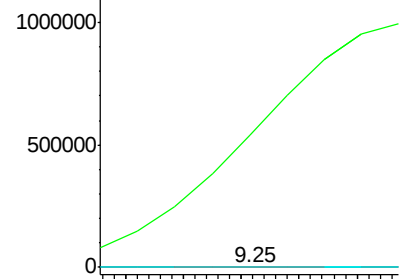
#49
1,4-Dioxane
Concen: 1.095 ug/l
RT: 9.25 min Scan# 2324
Delta R.T. 0.05 min
Lab File: VN058424.D
Acq: 30 Sep 2019 11:09

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 88 Resp: 74
Ion Ratio Lower Upper
88 100
43 0.0 31.1 46.7#
58 0.0 58.1 87.1#

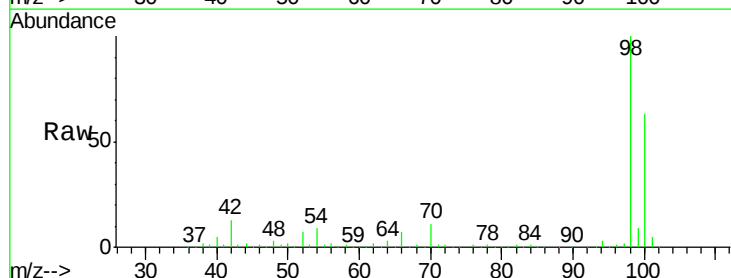


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

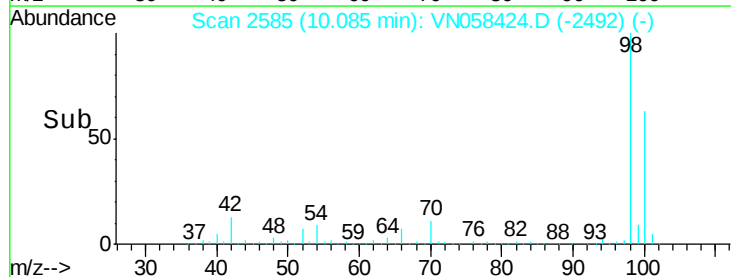
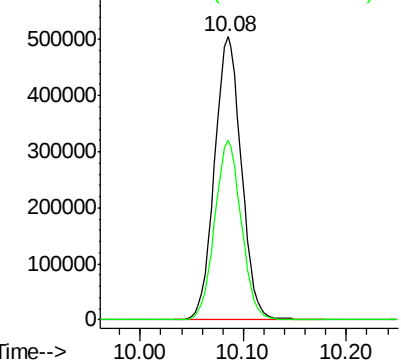


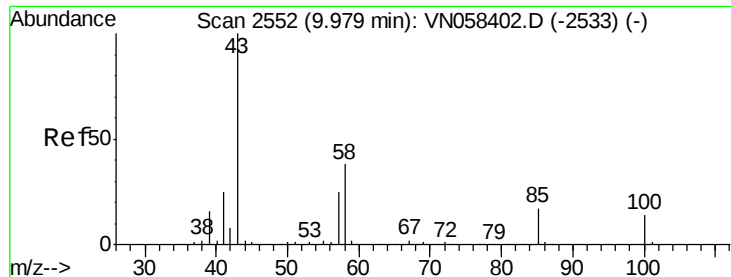
#50
Toluene-d8
Concen: 52.501 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058424.D
Acq: 30 Sep 2019 11:09

Tgt Ion: 98 Resp: 917516
Ion Ratio Lower Upper
98 100
100 62.9 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.016 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058424.D

Acq: 30 Sep 2019 11:09

Instrument :

MSVOA_N

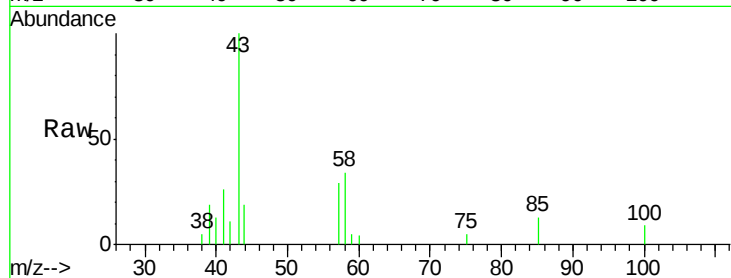
ClientSampleId :

Tot Ion: 43 Resp: 5790

Ion Ratio Lower Upper

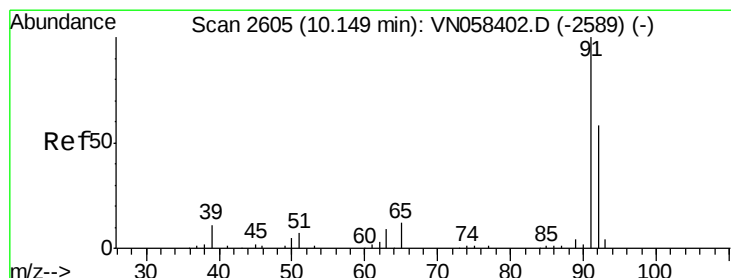
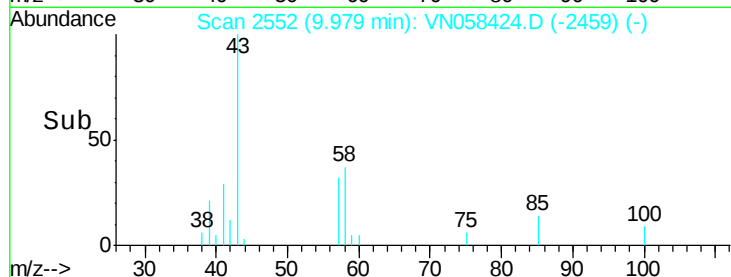
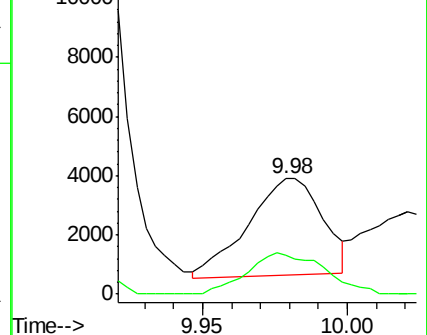
43 100

58 44.6 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 0.394 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058424.D

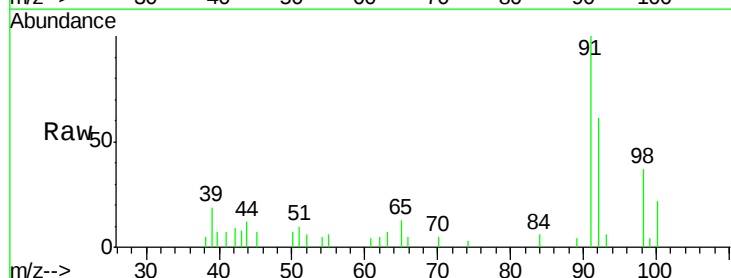
Acq: 30 Sep 2019 11:09

Tgt Ion: 92 Resp: 4967

Ion Ratio Lower Upper

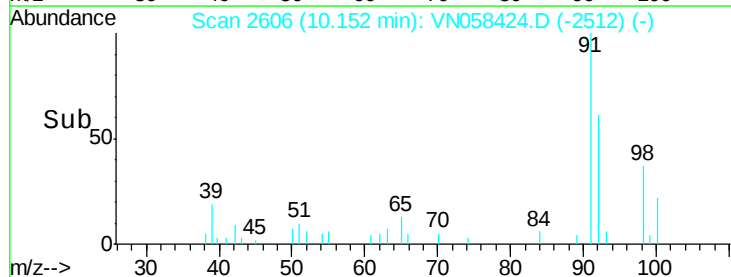
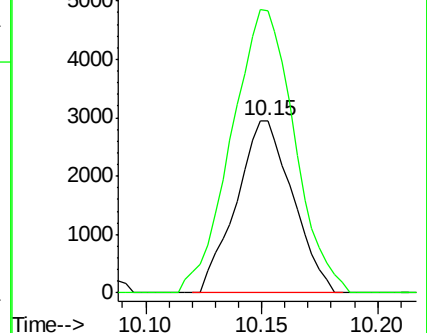
92 100

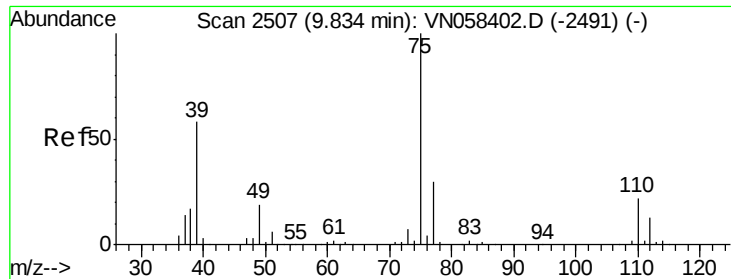
91 184.0 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



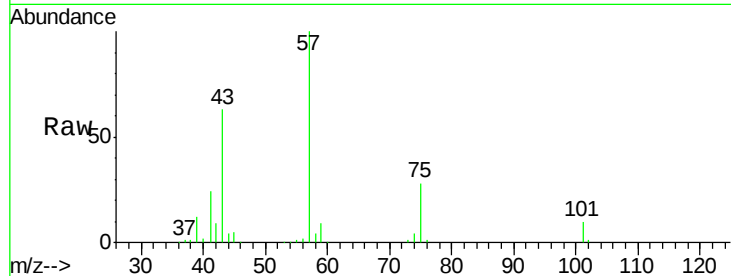


#54

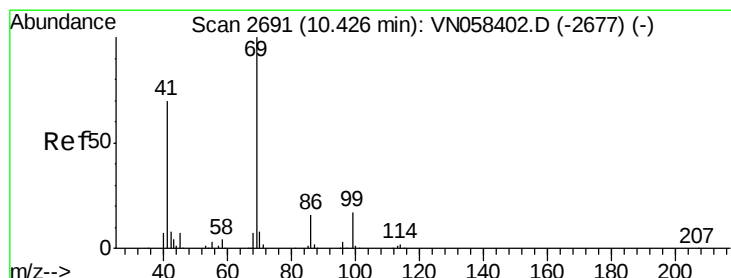
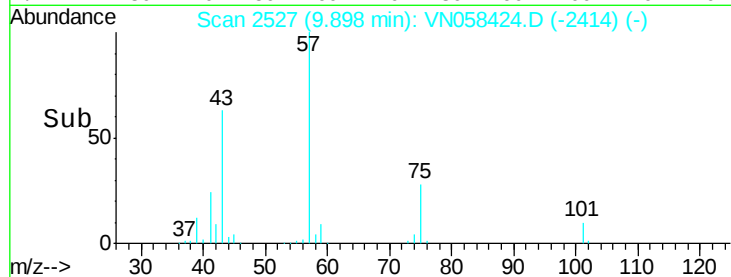
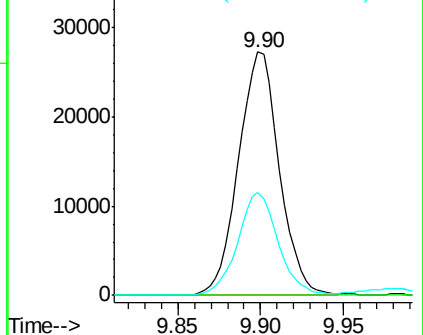
cis-1,3-Dichloropropene
 Concen: 5.990 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN058424.D
 Acq: 30 Sep 2019 11:09

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.2	36.4#
39	42.3	46.4	69.6#



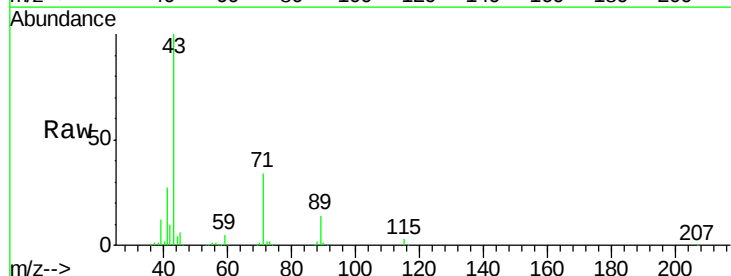
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



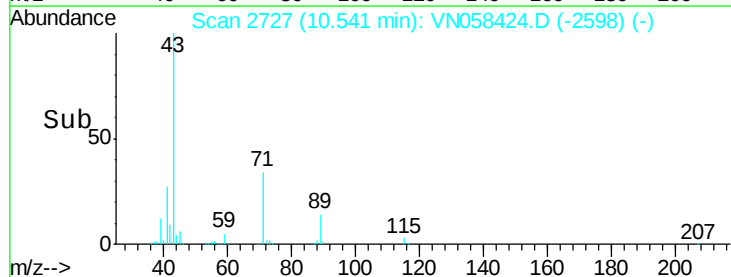
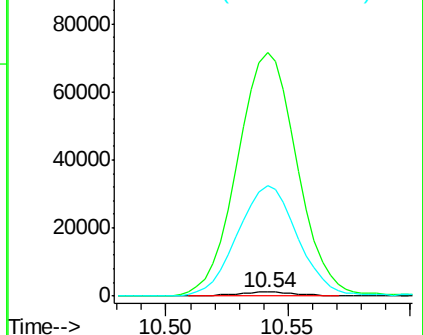
#56

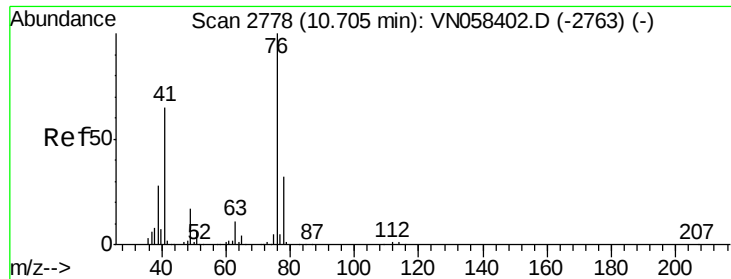
Ethyl methacrylate
 Concen: 0.283 ug/l
 RT: 10.54 min Scan# 2727
 Delta R.T. 0.12 min
 Lab File: VN058424.D
 Acq: 30 Sep 2019 11:09

Tgt Ion	Ratio	Lower	Upper
69	100		
41	6193.4	56.3	84.5#
39	2829.9	35.8	53.6#



Abundance Ion 69.00 (68.70 to 69.70): VNO
 Ion 41.00 (40.70 to 41.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO

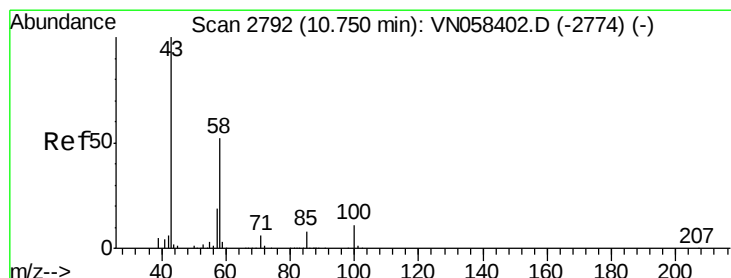
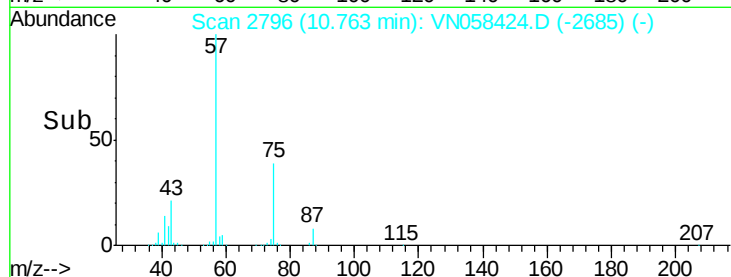
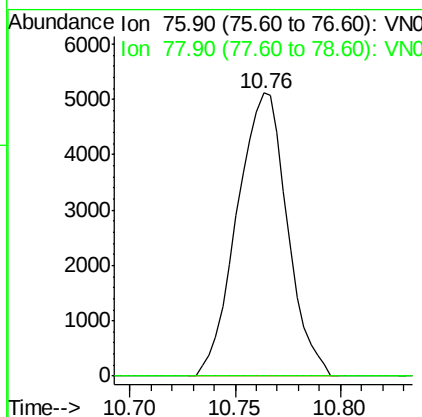
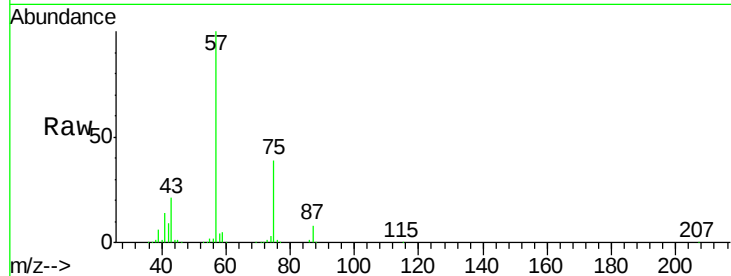




#57
 1,3-Dichloropropane
 Concen: 1.035 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN058424.D
 Acq: 30 Sep 2019 11:09

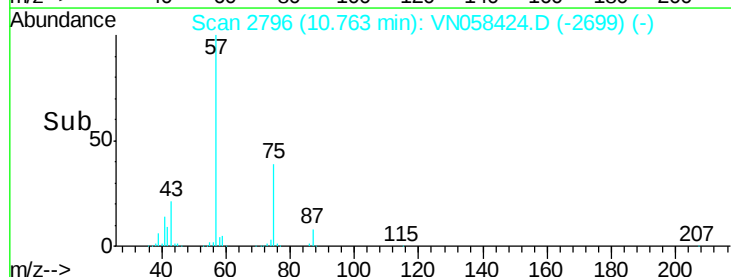
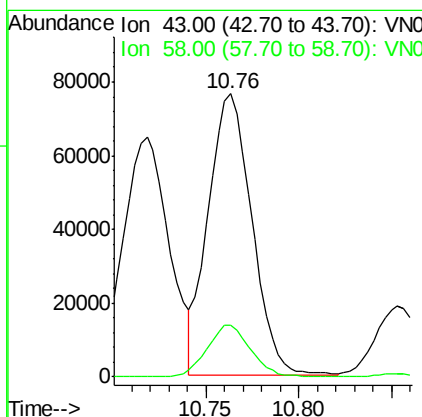
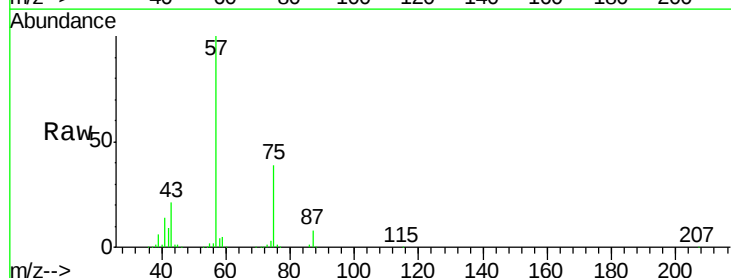
Instrument :
 MSVOA_N
 ClientSampleId :

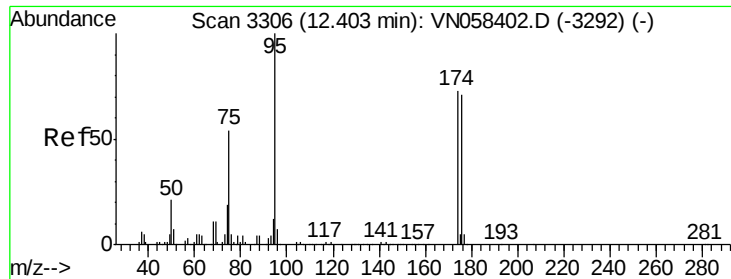
Tot Ion: 76 Resp: 8467
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 30.013 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN058424.D
 Acq: 30 Sep 2019 11:09

Tgt Ion: 43 Resp: 124564
 Ion Ratio Lower Upper
 43 100
 58 18.6 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 45.678 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058424.D

Acq: 30 Sep 2019 11:09

Instrument :

MSVOA_N

ClientSampled :

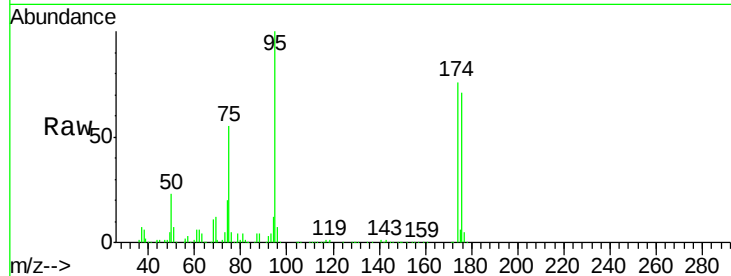
Tot Ion: 95 Resp: 288644

Ion Ratio Lower Upper

95 100

174 76.5 0.0 150.6

176 73.7 0.0 146.2



Abundance Ion 94.90 (94.60 to 95.60): VN058424.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN058424.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN058424.D (-3213) (-)

12.40

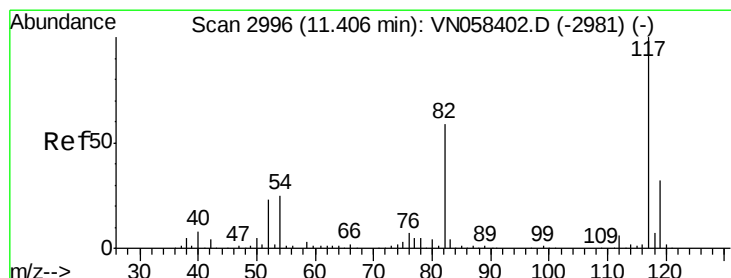
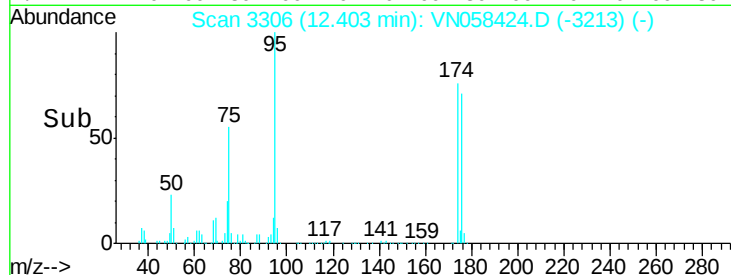
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058424.D

Acq: 30 Sep 2019 11:09

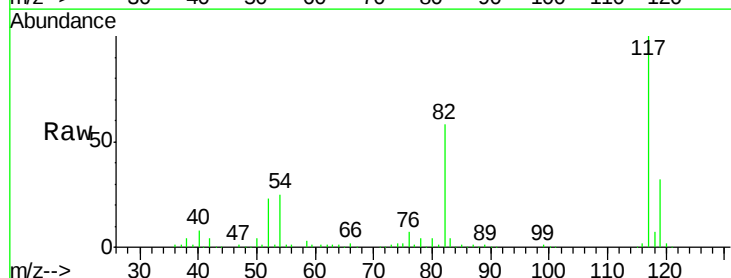
Tgt Ion: 117 Resp: 624581

Ion Ratio Lower Upper

117 100

82 58.4 47.4 71.0

119 31.5 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN058424.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058424.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058424.D (-2903) (-)

11.41

400000

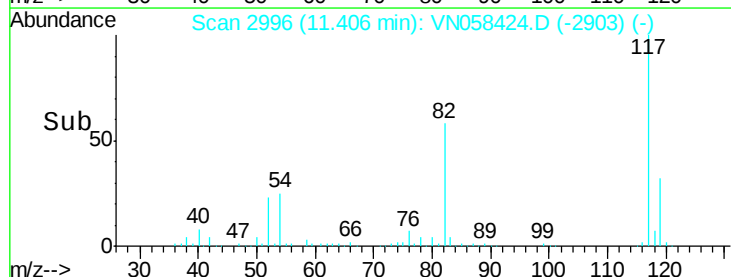
300000

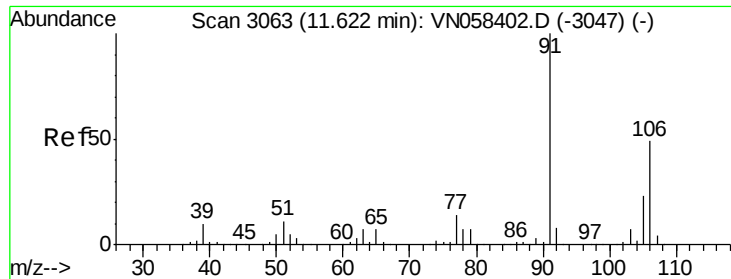
200000

100000

0

Time-->

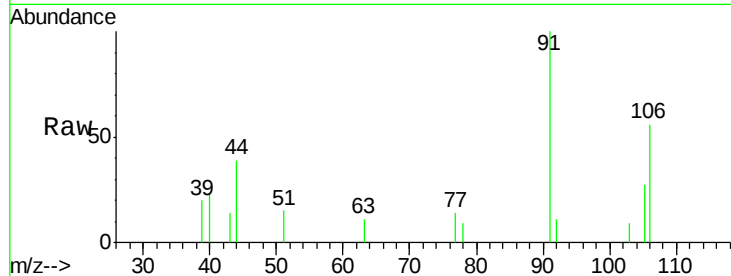




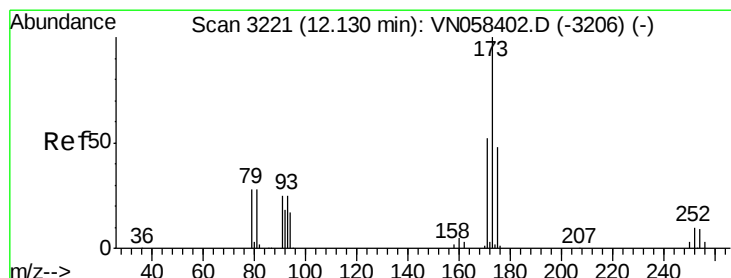
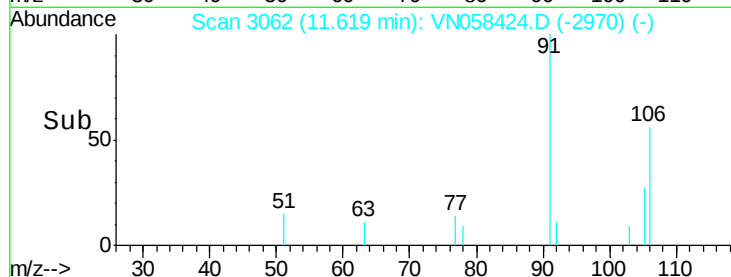
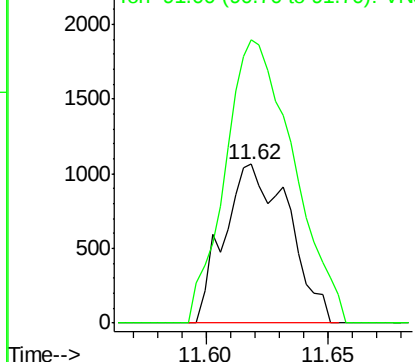
#68
m/p-Xvlenes
Concen: 0.233 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN058424.D
Acq: 30 Sep 2019 11:09

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:106 Resp: 1974
Ion Ratio Lower Upper
106 100
91 186.8 165.0 247.4

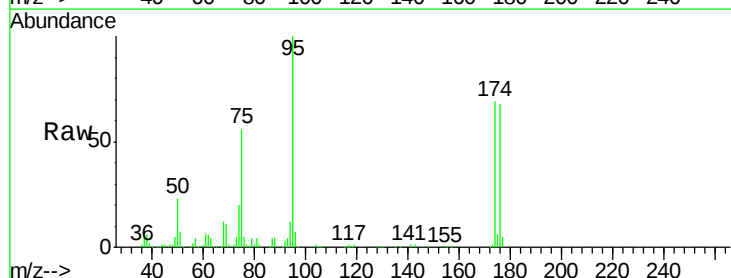


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

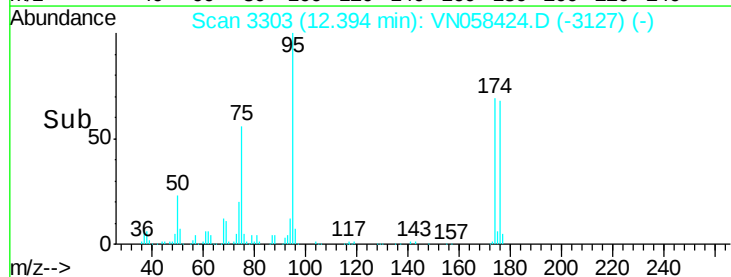
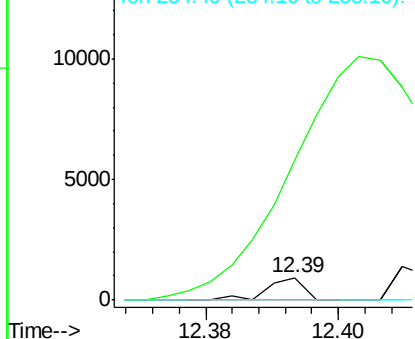


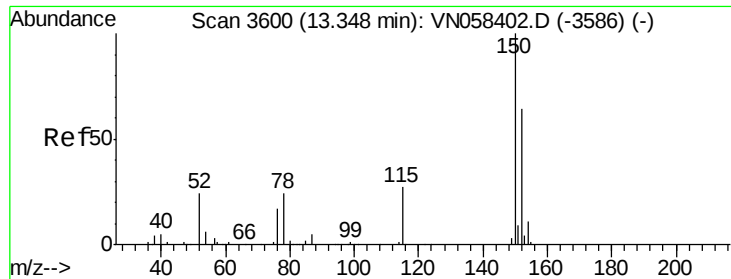
#71
Bromoform
Concen: 0.813 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.26 min
Lab File: VN058424.D
Acq: 30 Sep 2019 11:09

Tgt Ion:173 Resp: 346
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.1 0.1#



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# 3600

Delta R.T. 0.00 min

Lab File: VN058424.D

Acq: 30 Sep 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

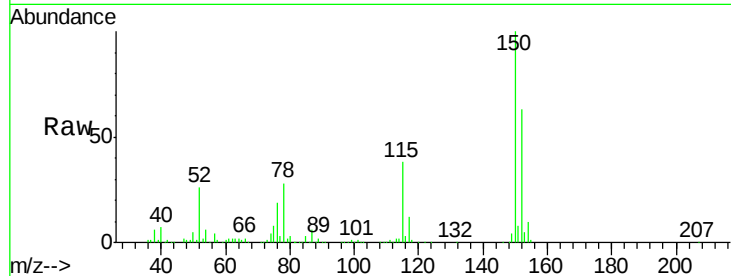
Tot Ion:152 Resp: 243226

Ion Ratio Lower Upper

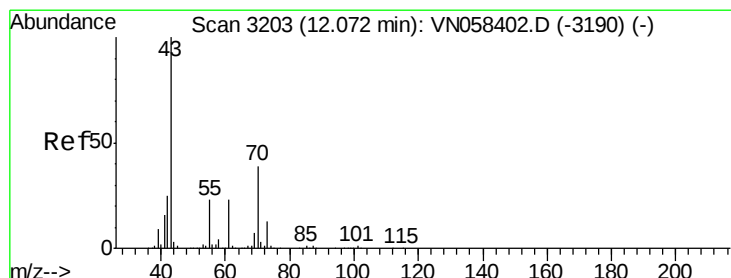
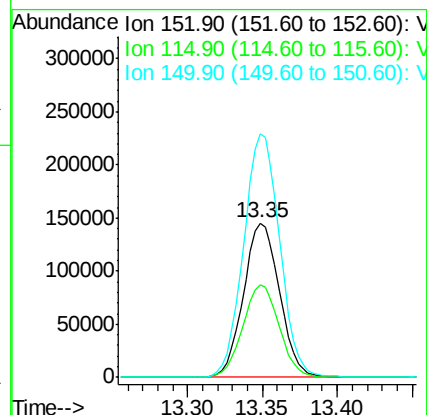
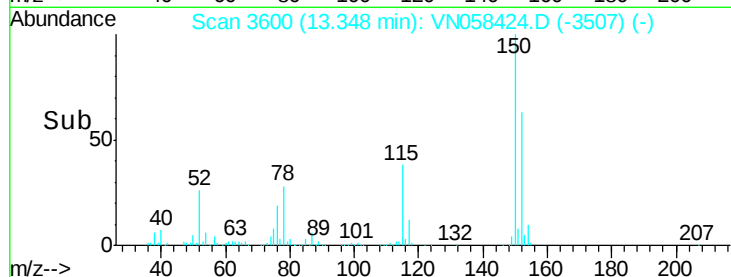
152 100

115 60.5 30.0 90.0

150 159.0 0.0 348.2



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



#74

N-ethyl acetate

Concen: 0.679 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058424.D

Acq: 30 Sep 2019 11:09

Tgt Ion: 43 Resp: 4854

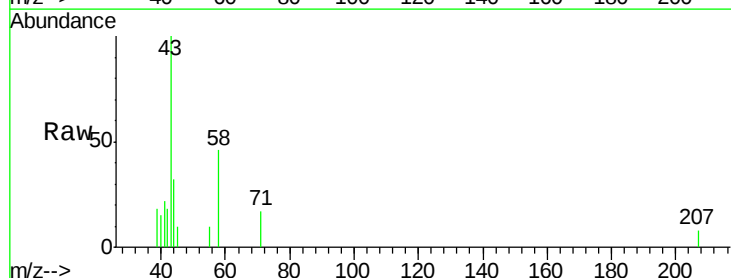
Ion Ratio Lower Upper

43 100

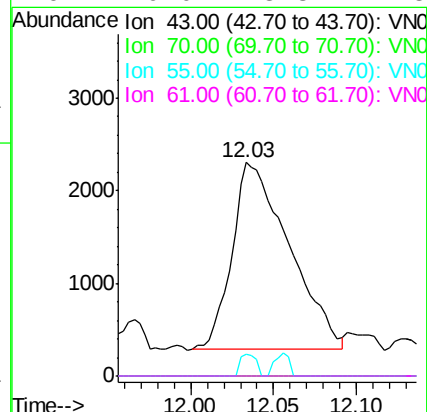
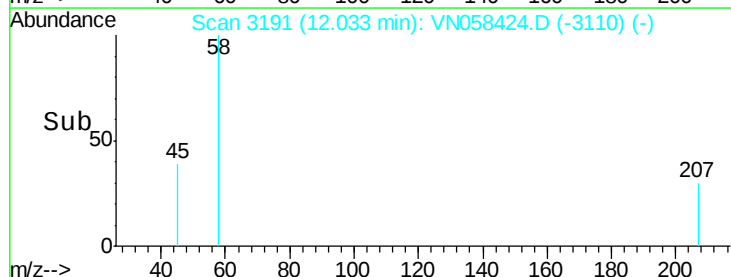
70 0.0 31.4 47.2#

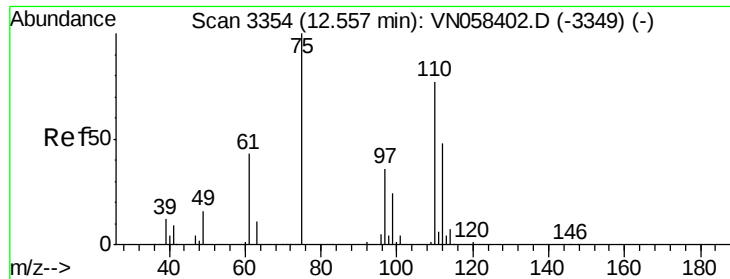
55 3.4 18.2 27.4#

61 0.0 18.3 27.5#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 35.918 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058424.D

Acq: 30 Sep 2019 11:09

Instrument :

MSVOA_N

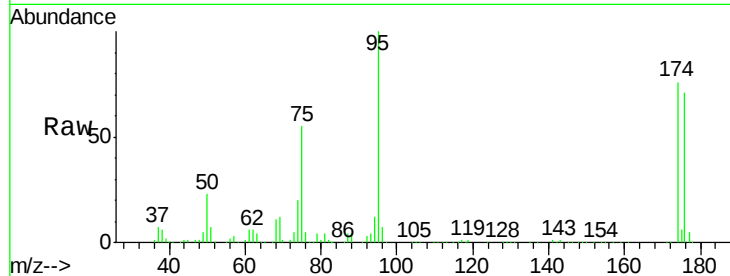
ClientSampleId :

Tot Ion: 75 Resp: 159567

Ion Ratio Lower Upper

75 100

77 0.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

100000

80000

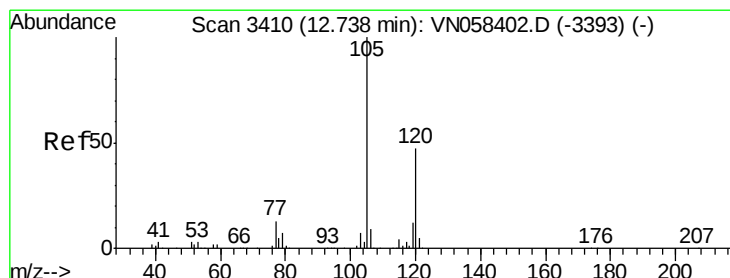
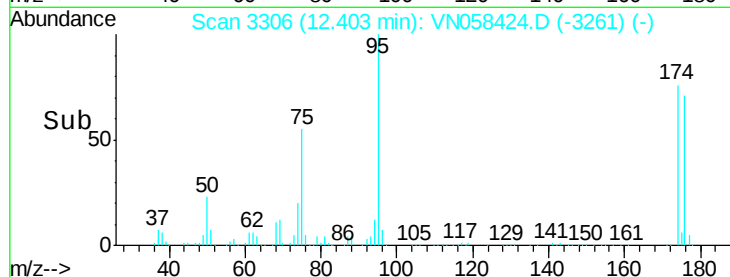
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.675 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058424.D

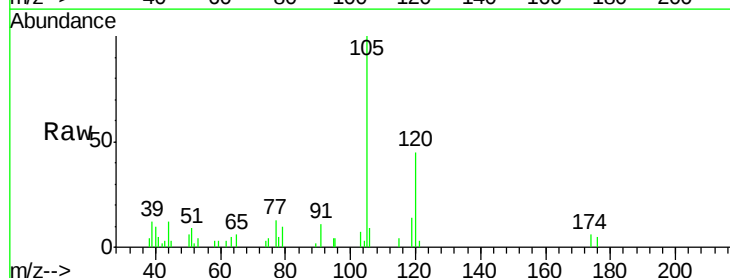
Acq: 30 Sep 2019 11:09

Tgt Ion: 105 Resp: 10164

Ion Ratio Lower Upper

105 100

120 47.0 23.5 70.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.74

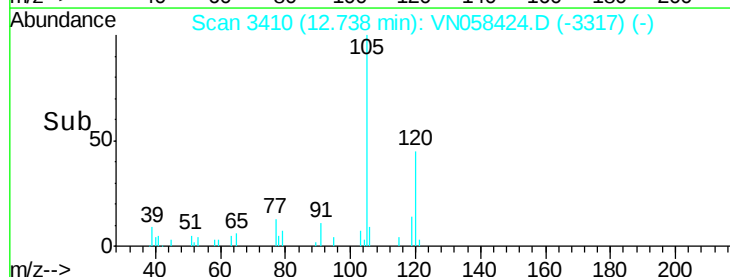
6000

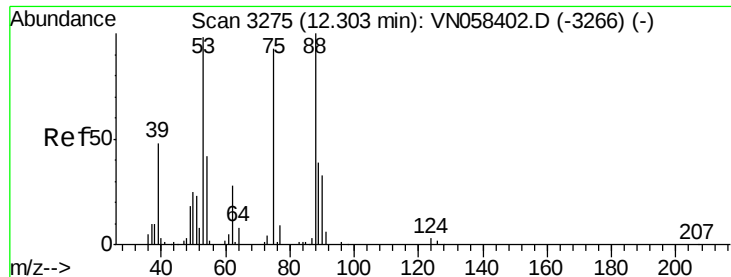
4000

2000

0

Time--> 12.70 12.75 12.80





#81

trans-1,4-Dichloro-2-butene

Concen: 109.087 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058424.D

Acq: 30 Sep 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 159567

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.0 35.0 52.4#

