

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101719\
 Data File : VN058836.D
 Acq On : 17 Oct 2019 18:28
 Operator : JC/SP
 Sample : K5393-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 01:30:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	349054	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	559791	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	514598	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	192693	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	262011	53.62	ug/l	0.00
Spiked Amount			Recovery	=	107.24%	
35) Dibromofluoromethane	7.57	113	186873	54.05	ug/l	0.00
Spiked Amount			Recovery	=	108.10%	
50) Toluene-d8	10.08	98	727597	52.62	ug/l	0.00
Spiked Amount			Recovery	=	105.24%	
62) 4-Bromofluorobenzene	12.40	95	223911	42.78	ug/l	0.00
Spiked Amount			Recovery	=	85.56%	

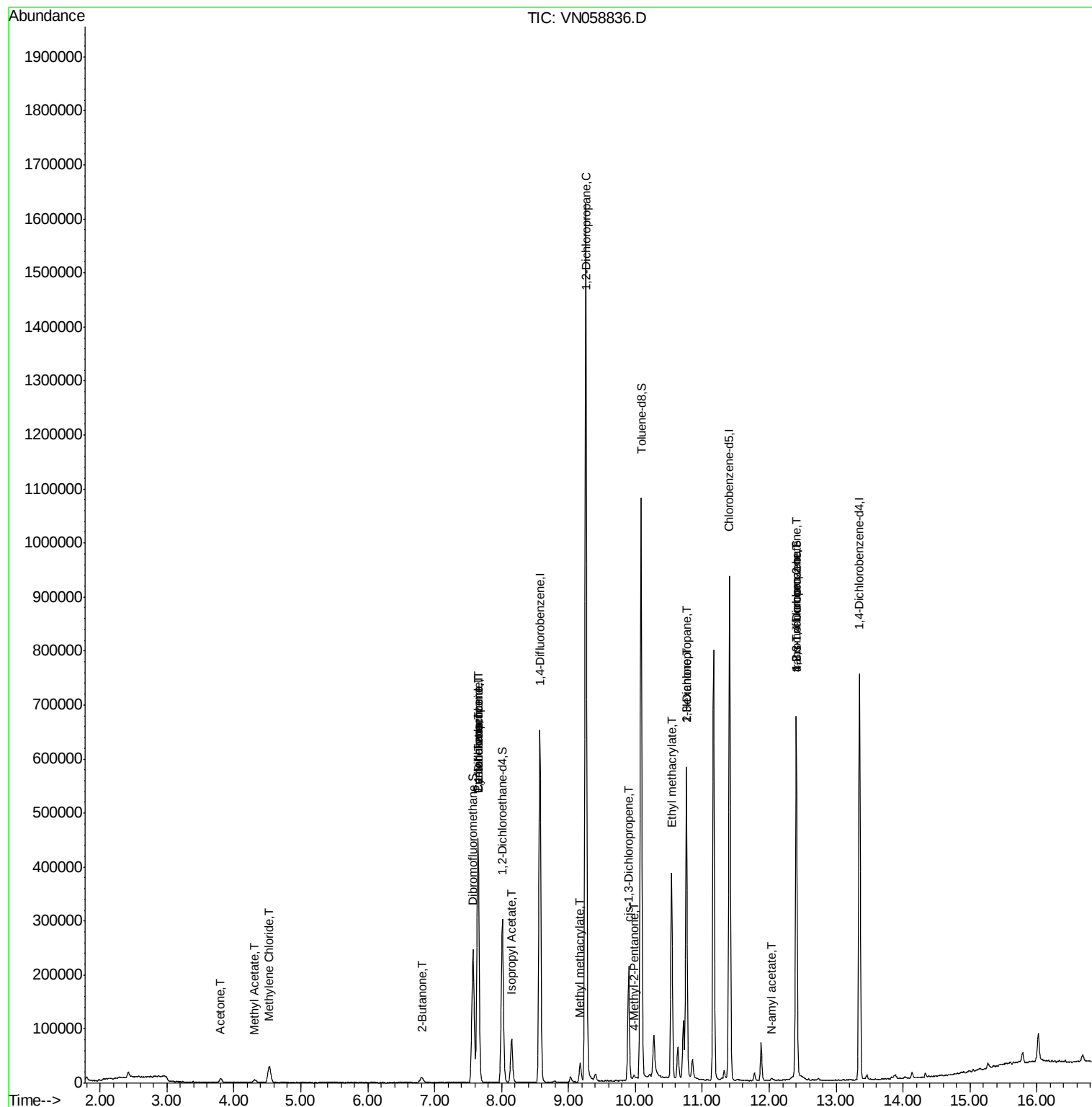
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	12891	6.372	ug/l	95
18) Methyl Acetate	4.31	43	10343	2.016	ug/l	99
20) Methylene Chloride	4.53	84	22296	5.273	ug/l	98
25) 2-Butanone	6.81	43	1081	0.370	ug/l #	50
31) Cyclohexane	7.64	56	9333	1.302	ug/l #	11
36) 1,1-Dichloropropene	7.65	75	30227	5.341	ug/l #	50
38) Carbon Tetrachloride	7.65	117	34614	6.275	ug/l #	17
43) Isopropyl Acetate	8.15	43	93890	9.629	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	2096	0.482	ug/l #	45
48) Methyl methacrylate	9.17	41	5508	1.246	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	6100	1.114	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	34484	5.040	ug/l #	70
56) Ethyl methacrylate	10.54	69	1732	0.291	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6000	0.865	ug/l #	42
59) 2-Hexanone	10.76	43	84774	20.031	ug/l #	54
74) N-amyl acetate	12.03	43	3771	0.602	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	121737	28.798	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	121737	77.142	ug/l #	11

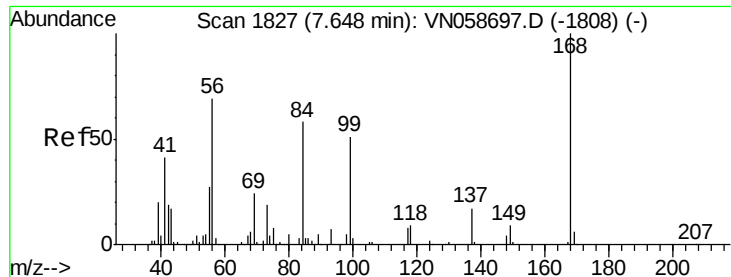
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058836.D

Acq: 17 Oct 2019 18:28

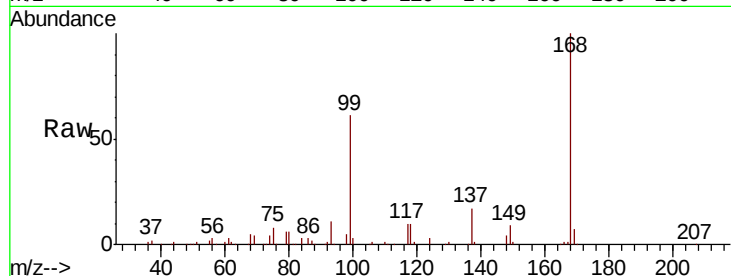
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 349054

Ion Ratio Lower Upper

168 100

99 61.4 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

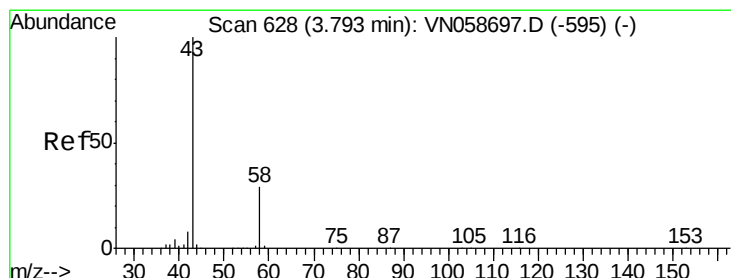
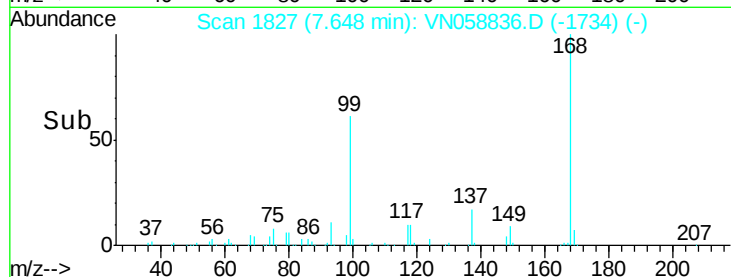
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 6.372 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058836.D

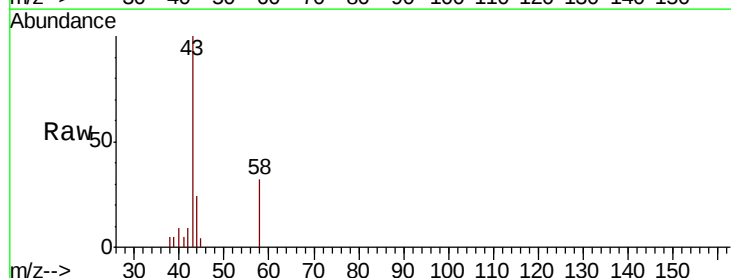
Acq: 17 Oct 2019 18:28

Tgt Ion: 43 Resp: 12891

Ion Ratio Lower Upper

43 100

58 31.5 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.80

5000

4000

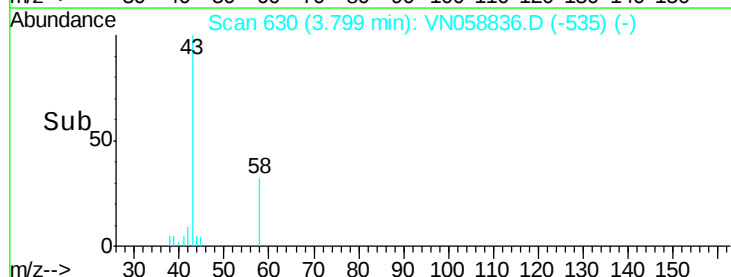
3000

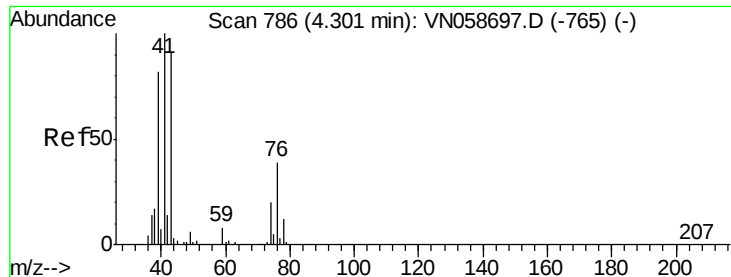
2000

1000

0

Time-->

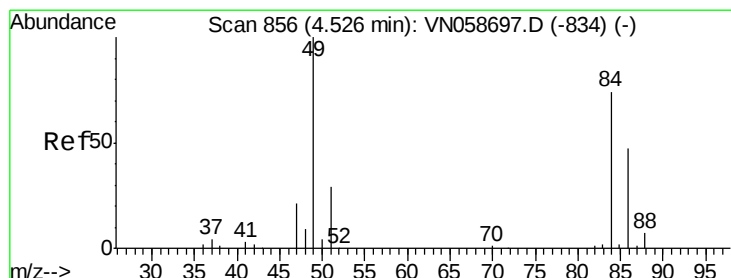
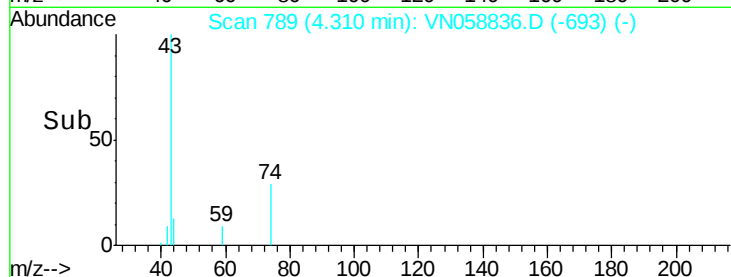
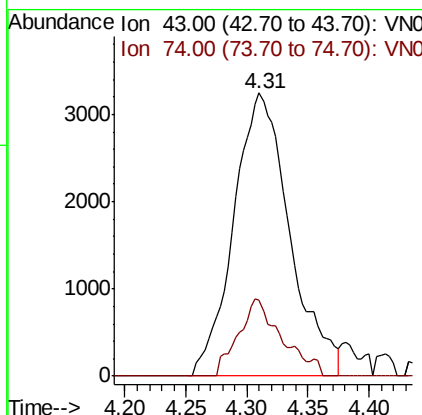
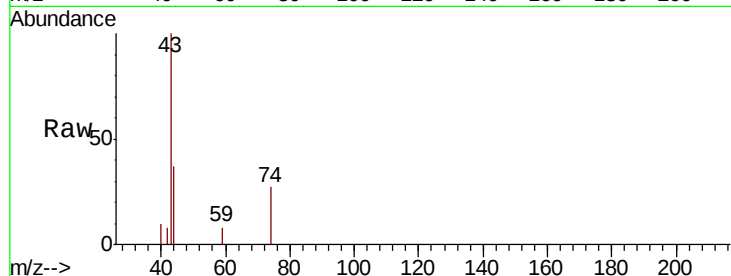




#18
Methyl Acetate
Concen: 2.016 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN058836.D
Acq: 17 Oct 2019 18:28

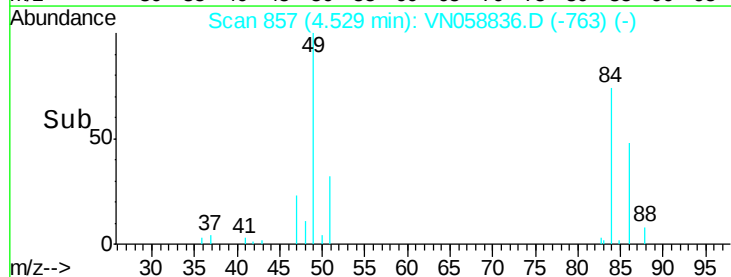
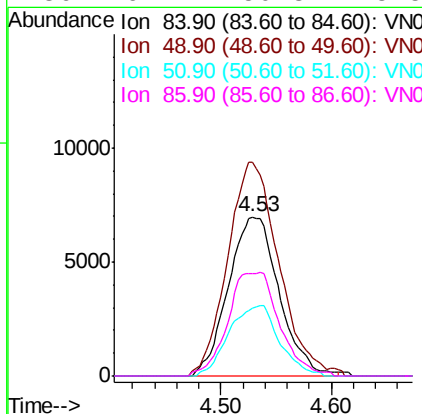
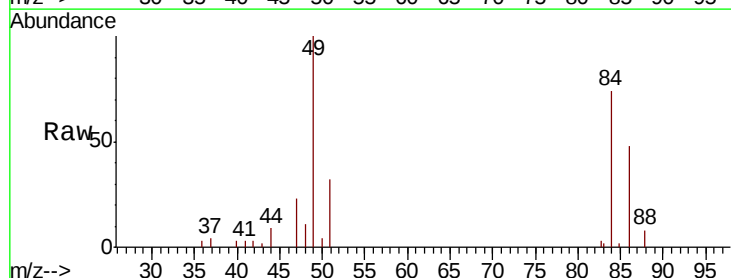
Instrument :
MSVOA_N
ClientSampleId :

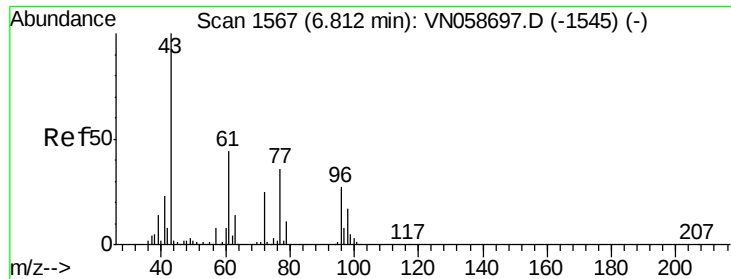
Tot Ion: 43 Resp: 10343
Ion Ratio Lower Upper
43 100
74 21.1 17.2 25.8



#20
Methylene Chloride
Concen: 5.273 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058836.D
Acq: 17 Oct 2019 18:28

Tgt Ion: 84 Resp: 22296
Ion Ratio Lower Upper
84 100
49 134.3 107.6 161.4
51 42.4 31.4 47.0
86 64.7 50.3 75.5

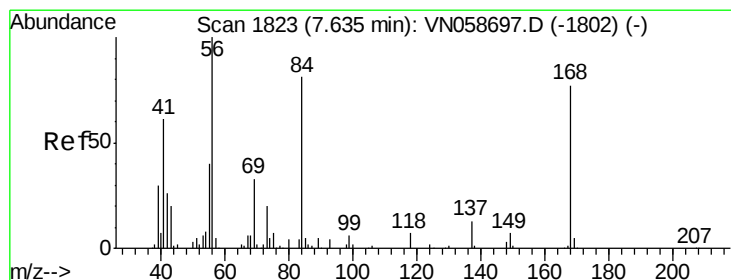
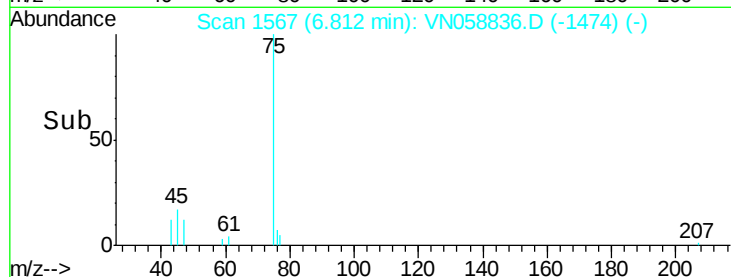
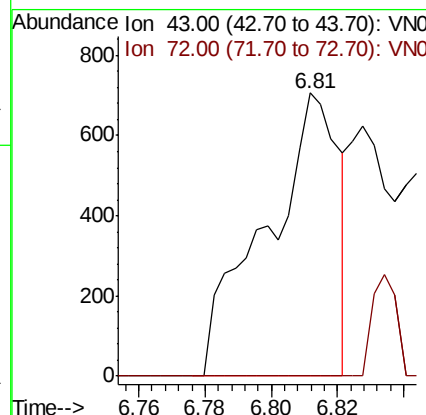
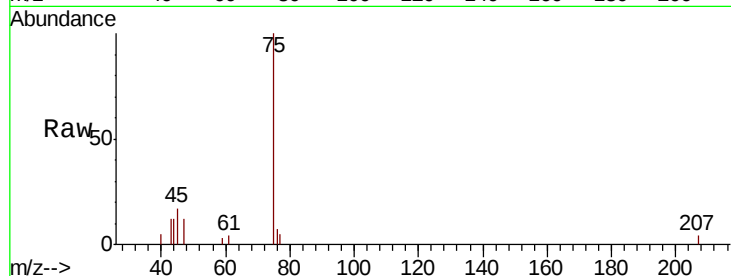




#25
2-Butanone
Concen: 0.370 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VN058836.D
Acq: 17 Oct 2019 18:28

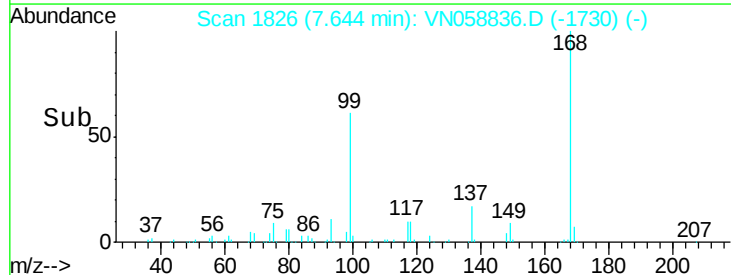
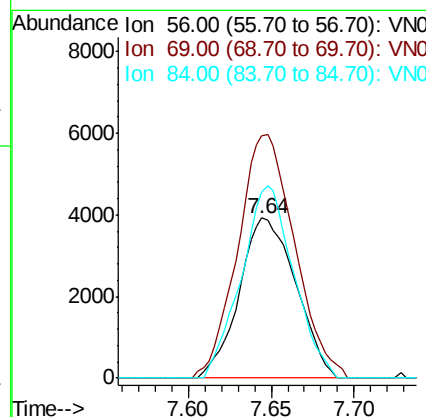
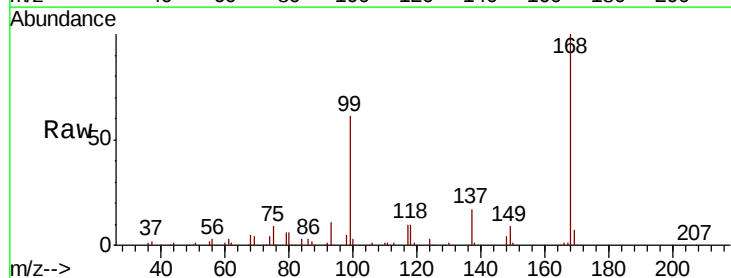
Instrument :
MSVOA_N
ClientSampleId :

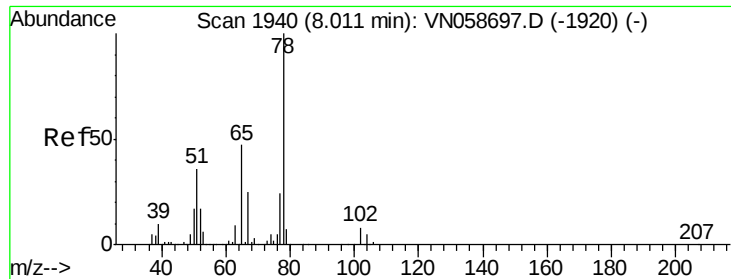
Tot Ion: 43 Resp: 1081
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.2#



#31
Cyclohexane
Concen: 1.302 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058836.D
Acq: 17 Oct 2019 18:28

Tgt Ion: 56 Resp: 9333
Ion Ratio Lower Upper
56 100
69 151.6 26.2 39.4#
84 116.6 64.9 97.3#





#33

1,2-Dichloroethane-d4

Concen: 53.617 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058836.D

Acq: 17 Oct 2019 18:28

Instrument :

MSVOA_N

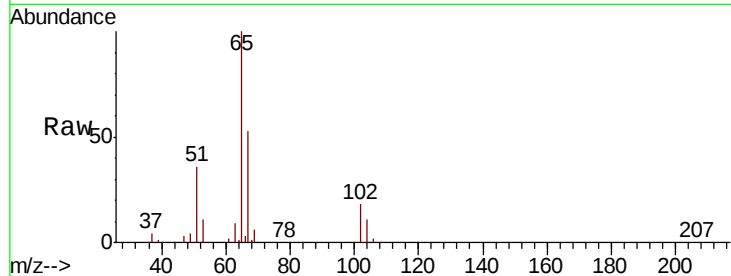
ClientSampled :

Tot Ion: 65 Resp: 262011

Ion Ratio Lower Upper

65 100

67 51.4 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.01

120000

100000

80000

60000

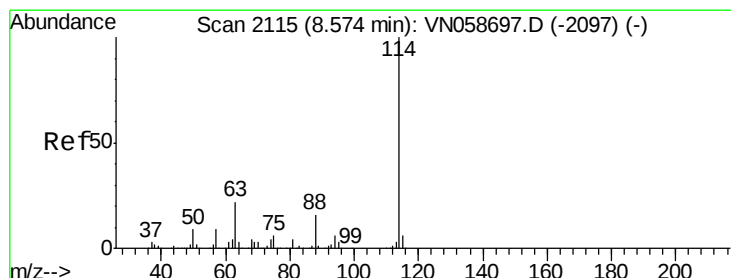
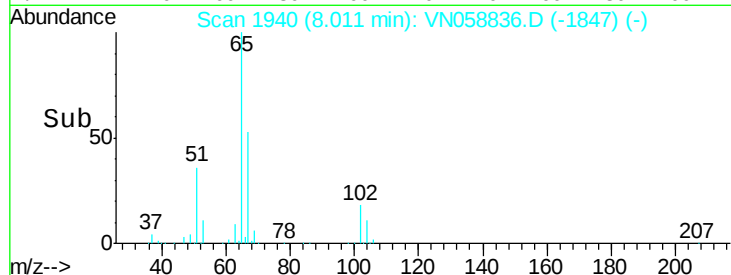
40000

20000

0

Time-->

7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058836.D

Acq: 17 Oct 2019 18:28

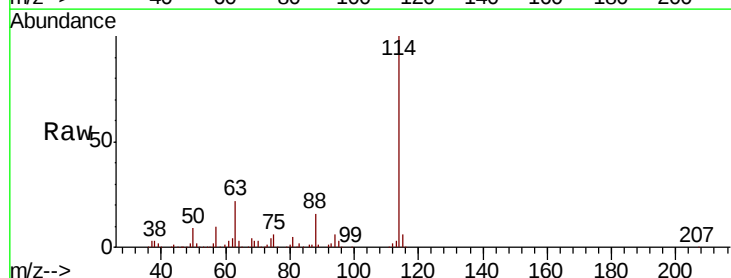
Tgt Ion: 114 Resp: 559791

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.8

88 15.9 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

300000

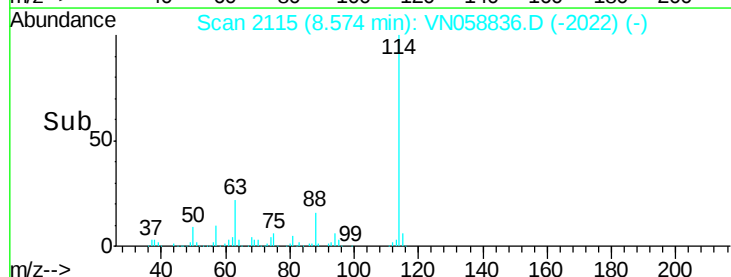
200000

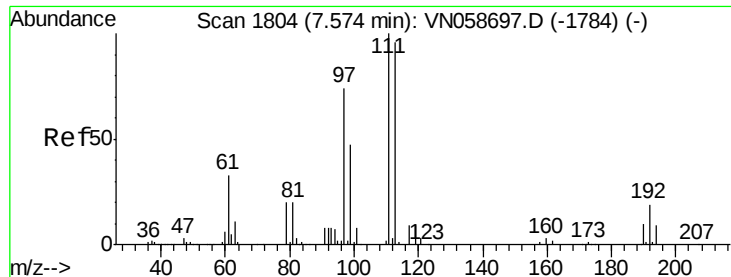
100000

0

Time-->

8.50 8.60 8.70

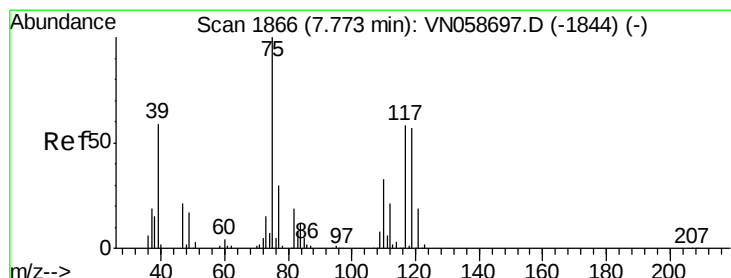
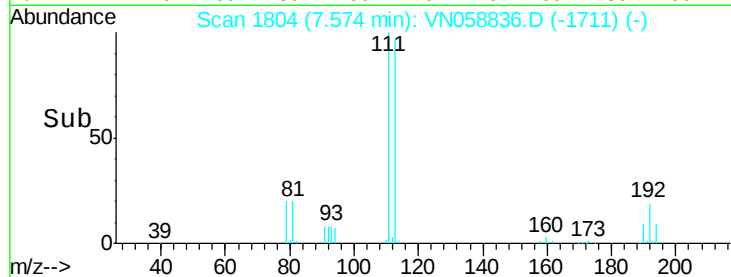
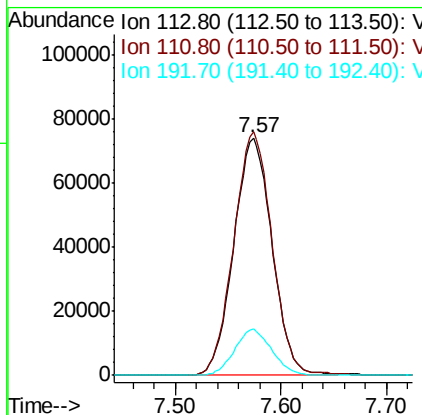
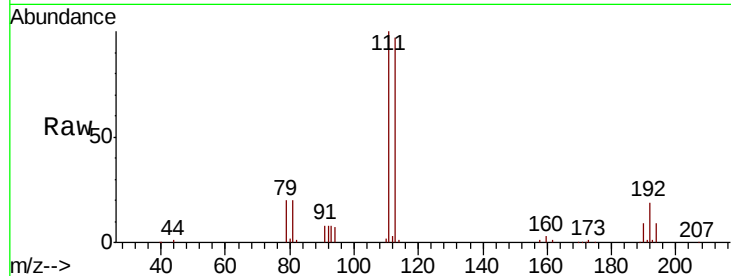




#35
 Dibromofluoromethane
 Concen: 54.045 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058836.D
 Acq: 17 Oct 2019 18:28

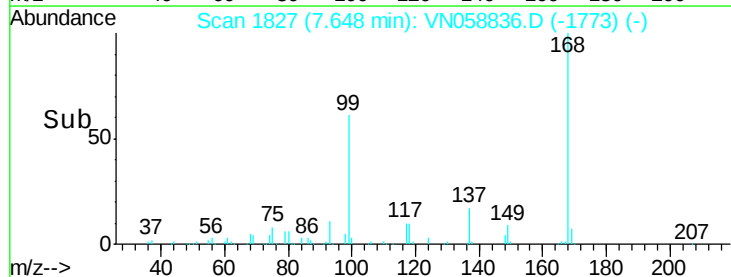
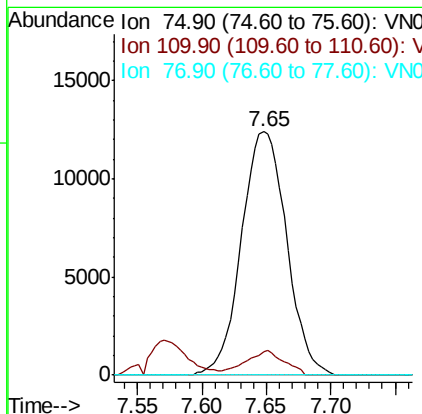
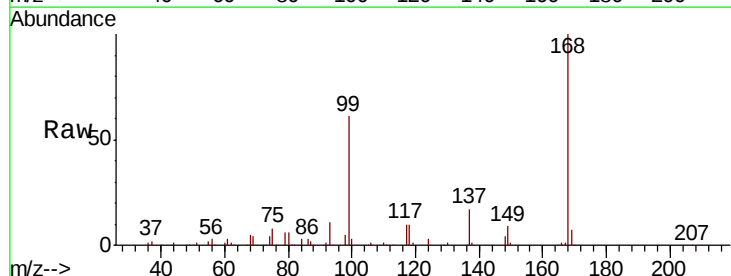
Instrument :
 MSVOA_N
 ClientSampled :

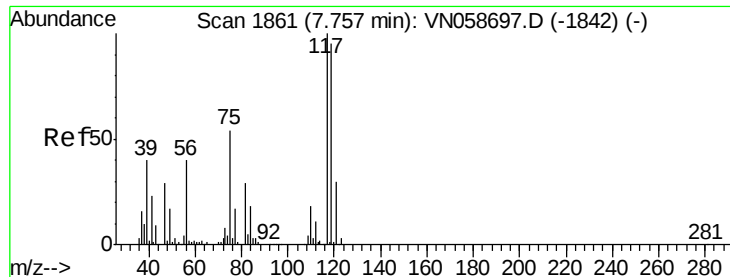
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.3	123.5
192	18.8	15.0	22.6



#36
 1,1-Dichloropropene
 Concen: 5.341 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058836.D
 Acq: 17 Oct 2019 18:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.6	49.8#
77	0.0	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 6.275 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058836.D

Acq: 17 Oct 2019 18:28

Instrument :

MSVOA_N

ClientSampleId :

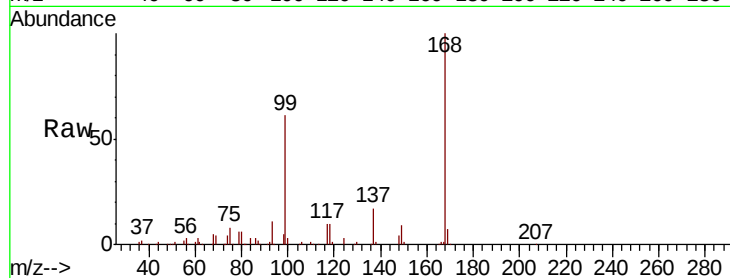
Tot Ion:117 Resp: 34614

Ion Ratio Lower Upper

117 100

119 5.9 75.7 113.5#

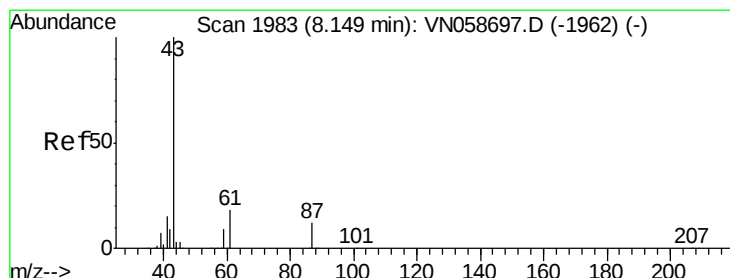
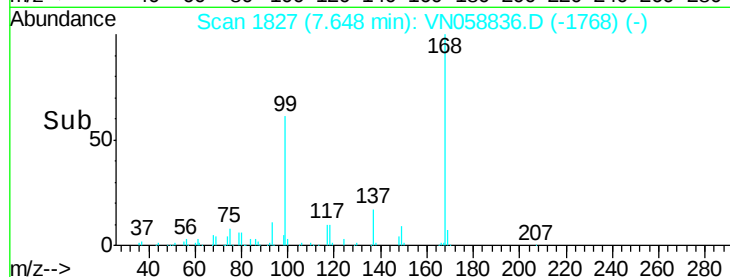
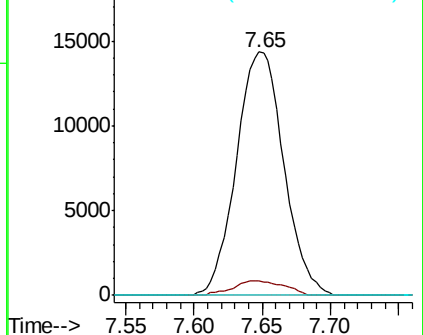
121 0.0 23.9 35.9#



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



#43

Isopropyl Acetate

Concen: 9.629 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VN058836.D

Acq: 17 Oct 2019 18:28

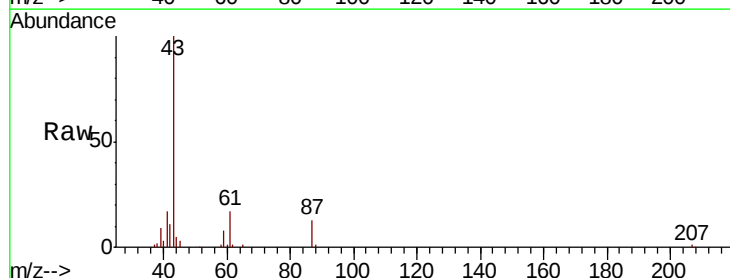
Tgt Ion: 43 Resp: 93890

Ion Ratio Lower Upper

43 100

61 18.2 20.3 30.5#

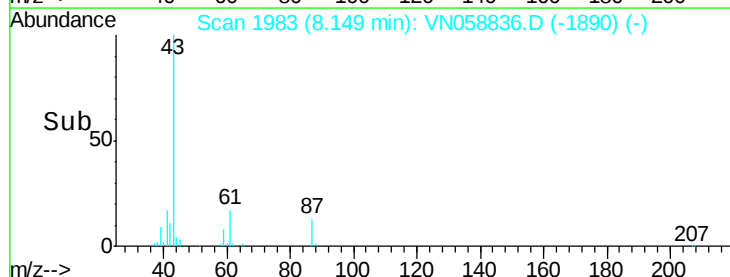
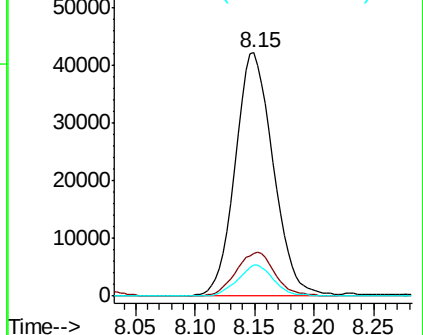
87 12.1 9.8 14.6

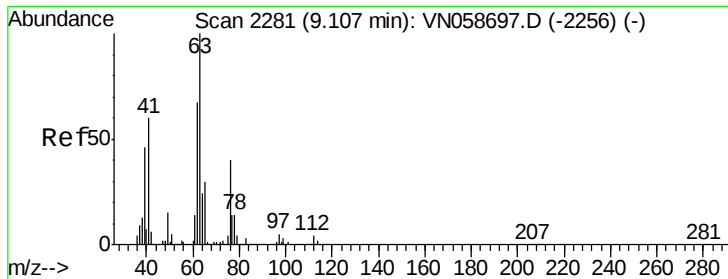


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

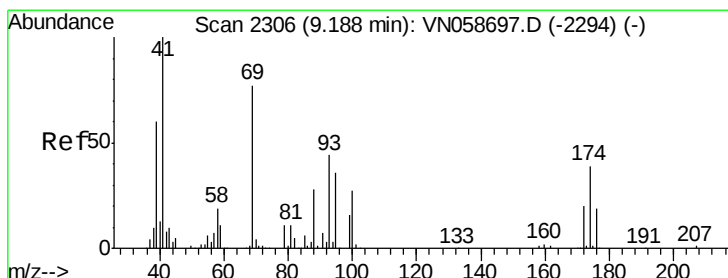
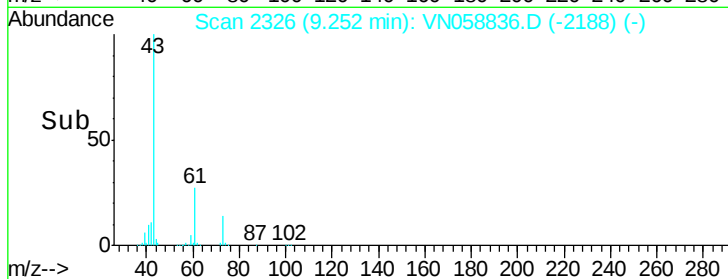
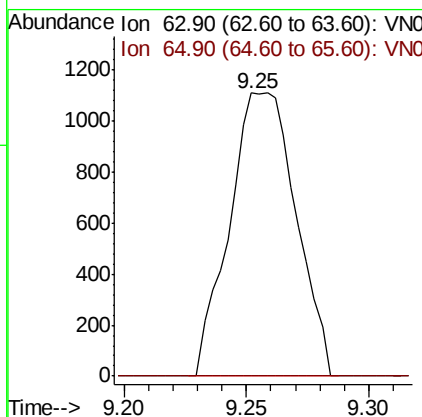
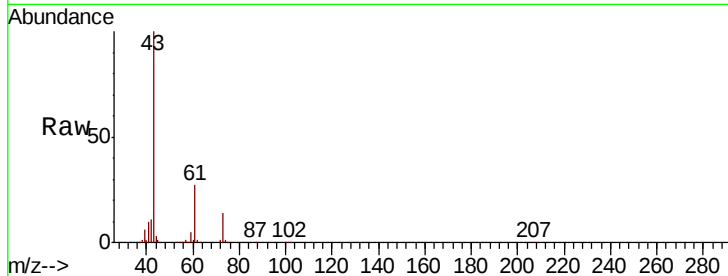




#45
 1,2-Dichloropropane
 Concen: 0.482 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.14 min
 Lab File: VN058836.D
 Acq: 17 Oct 2019 18:28

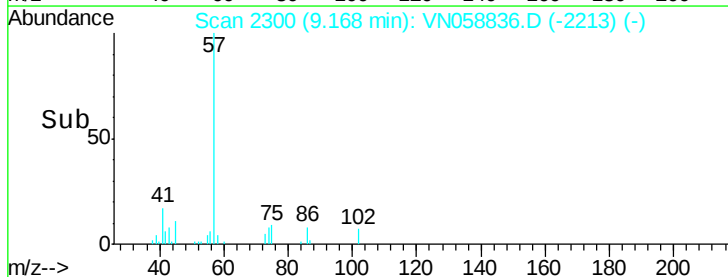
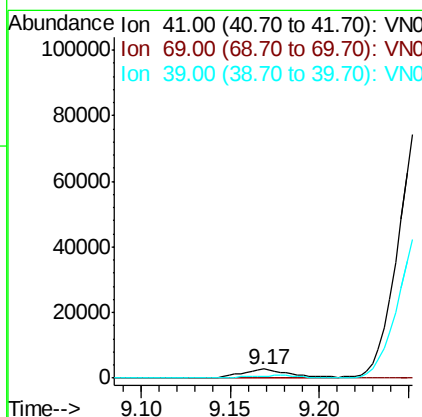
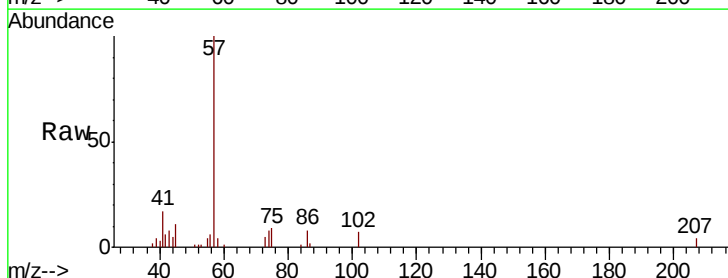
Instrument :
 MSVOA_N
 ClientSampleId :

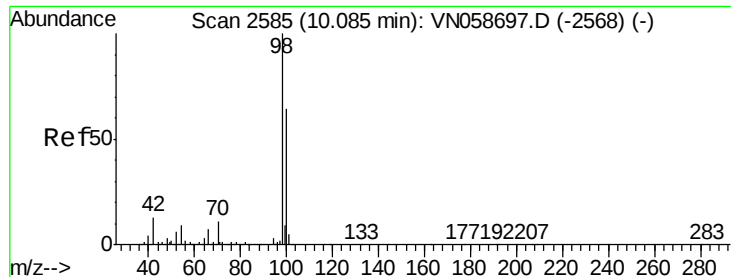
Tot Ion: 63 Resp: 2096
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.1 36.1#



#48
 Methyl methacrylate
 Concen: 1.246 ug/l
 RT: 9.17 min Scan# 2300
 Delta R.T. -0.02 min
 Lab File: VN058836.D
 Acq: 17 Oct 2019 18:28

Tgt Ion: 41 Resp: 5508
 Ion Ratio Lower Upper
 41 100
 69 0.0 63.4 95.2#
 39 0.0 48.9 73.3#





#50

Toluene-d8

Concen: 52.622 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058836.D

Acq: 17 Oct 2019 18:28

Instrument :

MSVOA_N

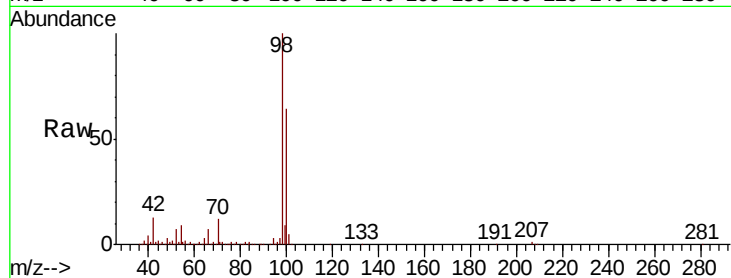
ClientSampled :

Tot Ion: 98 Resp: 727597

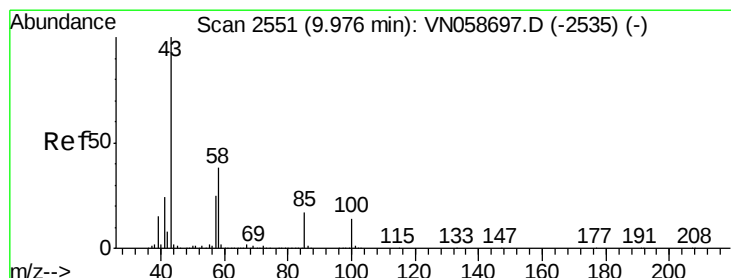
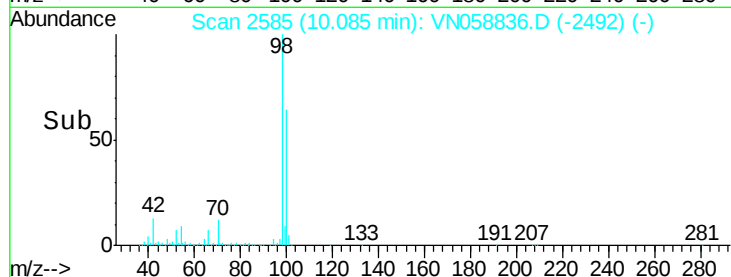
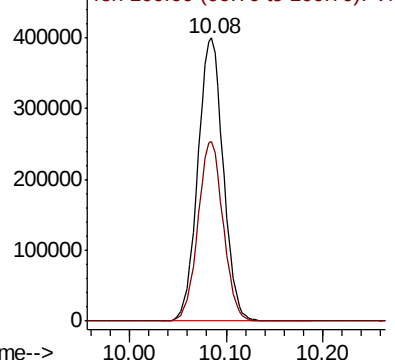
Ion Ratio Lower Upper

98 100

100 63.1 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN058697.D (-2568) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.114 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058836.D

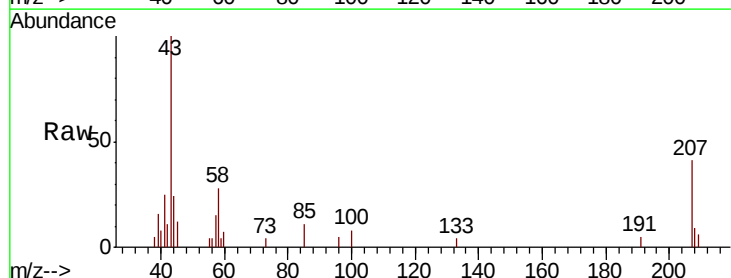
Acq: 17 Oct 2019 18:28

Tgt Ion: 43 Resp: 6100

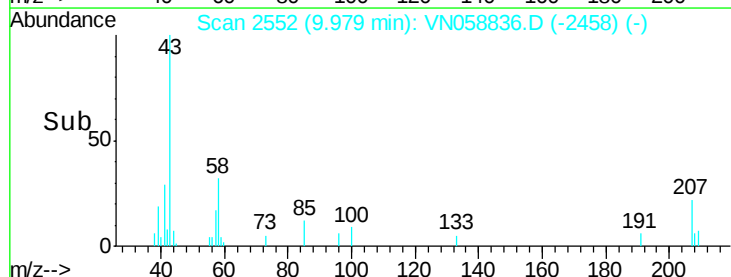
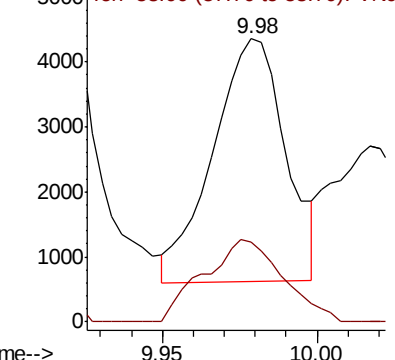
Ion Ratio Lower Upper

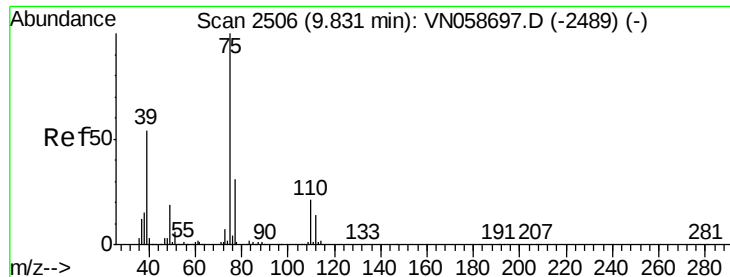
43 100

58 37.1 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-2535) (-)



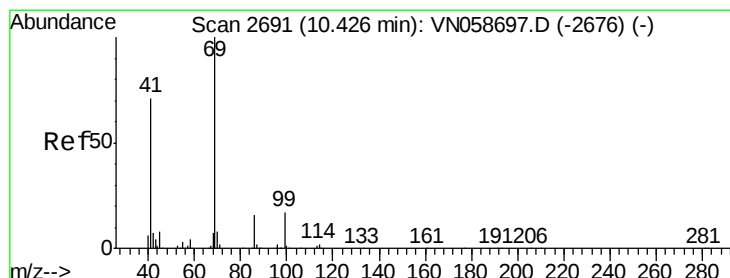
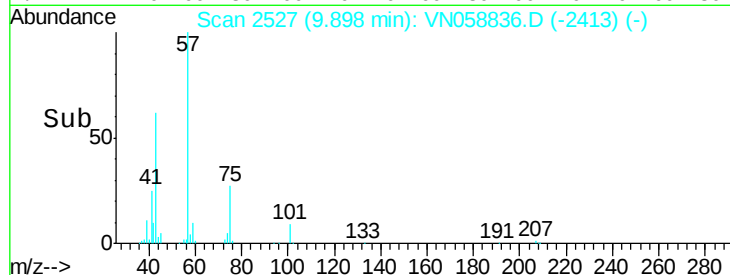
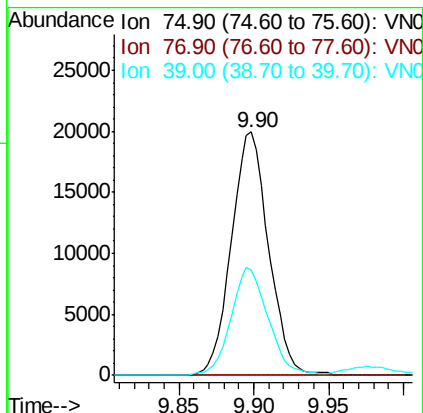
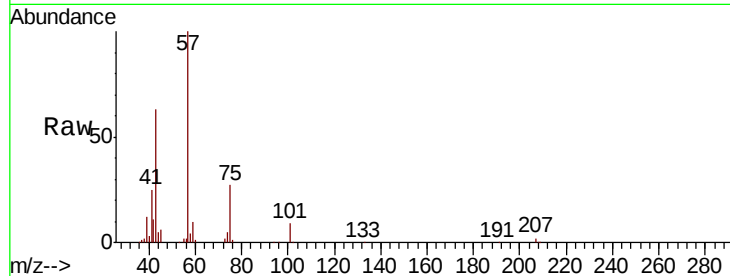


#54

cis-1,3-Dichloropropene
Concen: 5.040 ug/l
RT: 9.90 min Scan# 2527
Delta R.T. 0.07 min
Lab File: VN058836.D
Acq: 17 Oct 2019 18:28

Instrument :
MSVOA_N
ClientSampled :

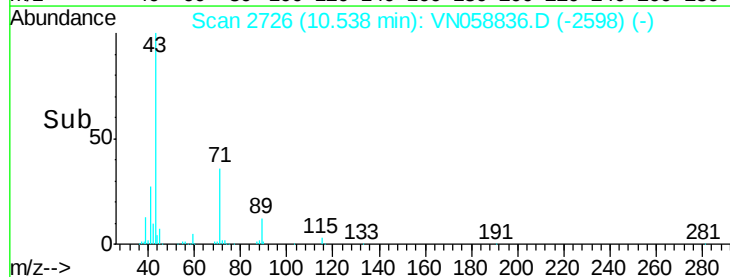
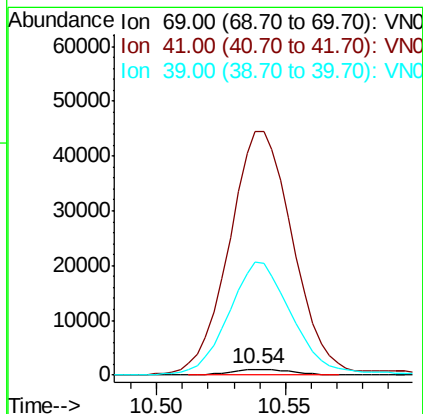
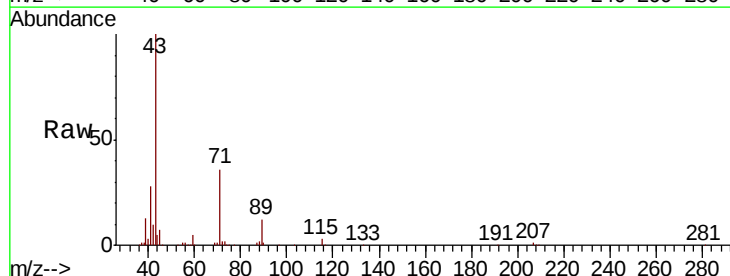
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.4	36.6#
39	43.1	43.1	64.7

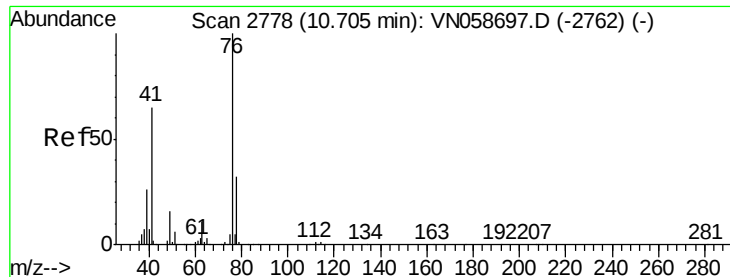


#56

Ethyl methacrylate
Concen: 0.291 ug/l
RT: 10.54 min Scan# 2726
Delta R.T. 0.11 min
Lab File: VN058836.D
Acq: 17 Oct 2019 18:28

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4446.7	56.8	85.2#
39	2050.9	32.5	48.7#

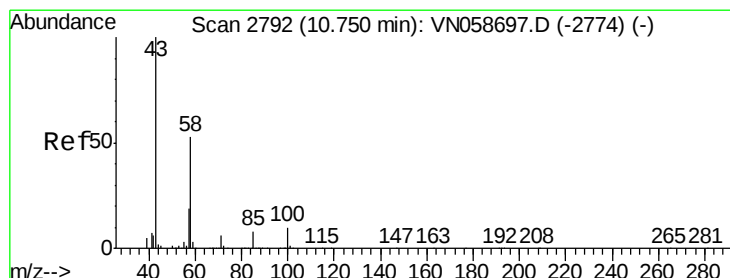
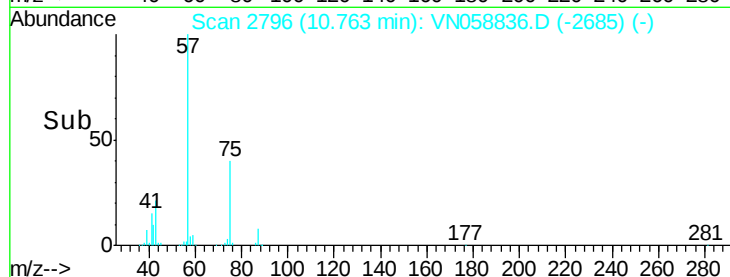
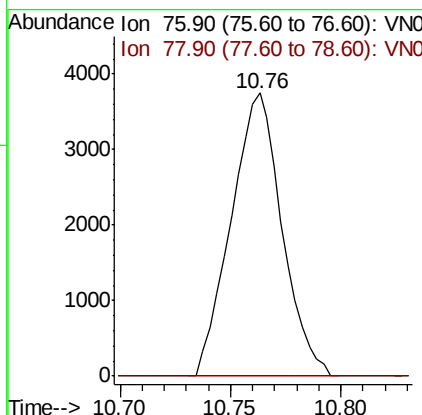
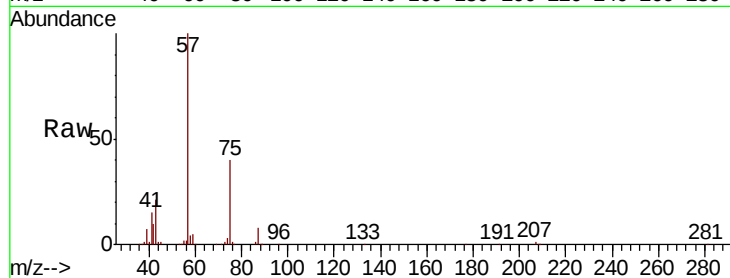




#57
 1,3-Dichloropropane
 Concen: 0.865 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN058836.D
 Acq: 17 Oct 2019 18:28

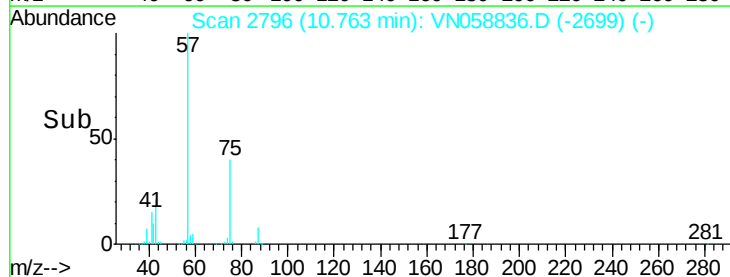
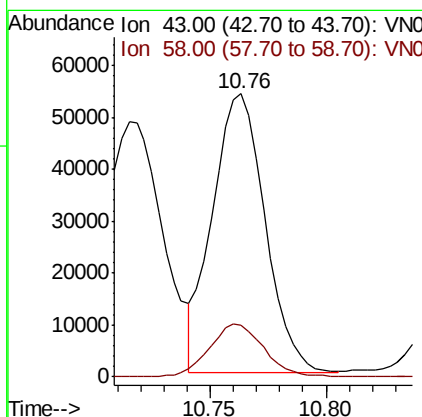
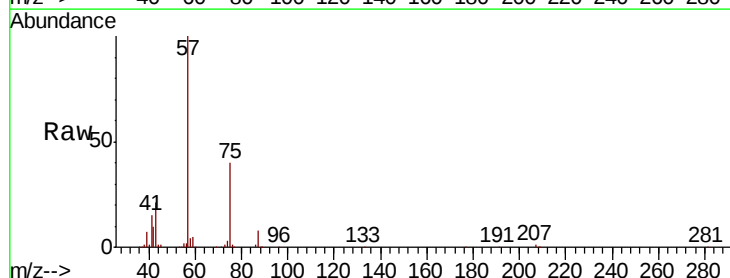
Instrument :
 MSVOA_N
 ClientSampleId :

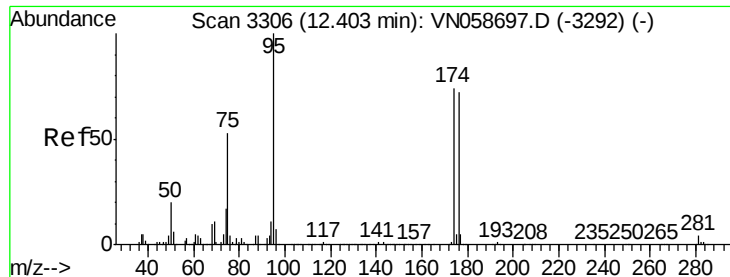
Tot Ion: 76 Resp: 6000
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.9 38.9#



#59
 2-Hexanone
 Concen: 20.031 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN058836.D
 Acq: 17 Oct 2019 18:28

Tgt Ion: 43 Resp: 84774
 Ion Ratio Lower Upper
 43 100
 58 19.7 26.1 78.3#





#62

4-Bromofluorobenzene

Concen: 42.781 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058836.D

Acq: 17 Oct 2019 18:28

Instrument :

MSVOA_N

ClientSampleId :

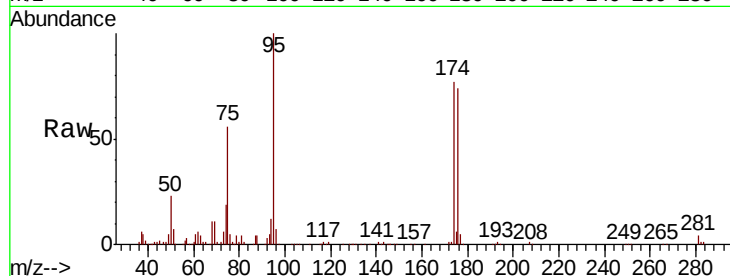
Tot Ion: 95 Resp: 223911

Ion Ratio Lower Upper

95 100

174 77.6 0.0 150.4

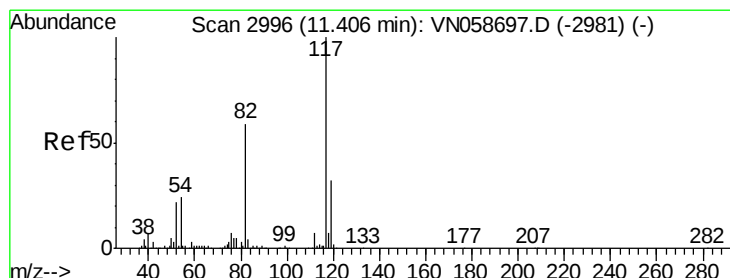
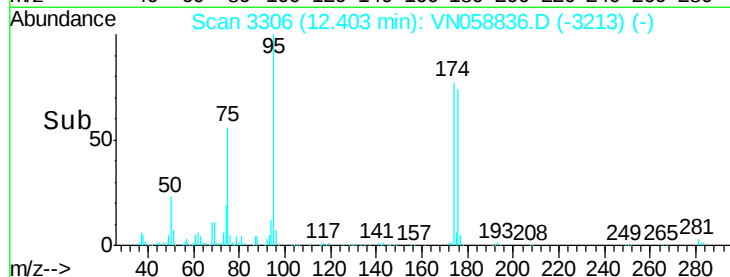
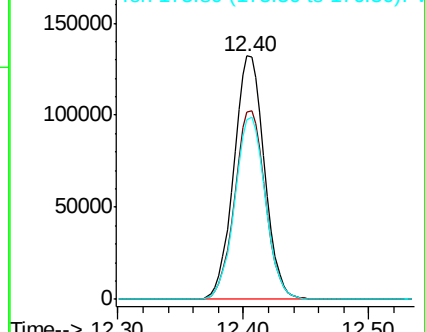
176 74.9 0.0 146.8



Abundance Ion 94.90 (94.60 to 95.60): VN058697.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058697.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058697.D (-3292) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058836.D

Acq: 17 Oct 2019 18:28

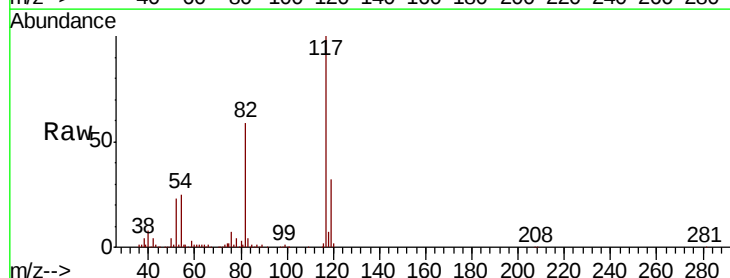
Tgt Ion: 117 Resp: 514598

Ion Ratio Lower Upper

117 100

82 59.0 47.0 70.4

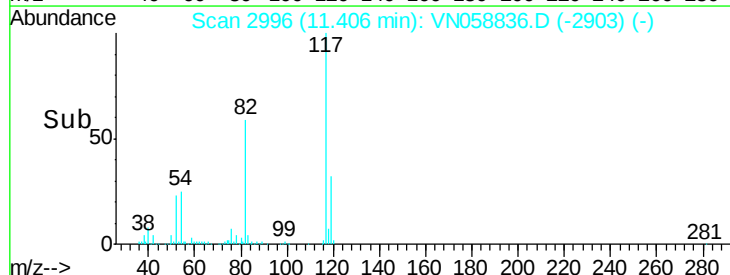
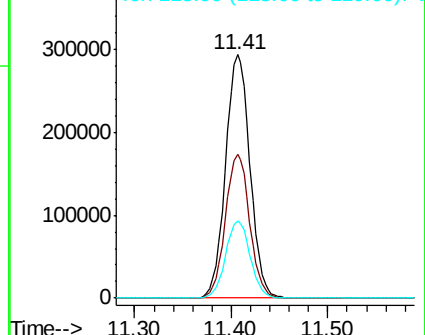
119 31.6 25.4 38.2

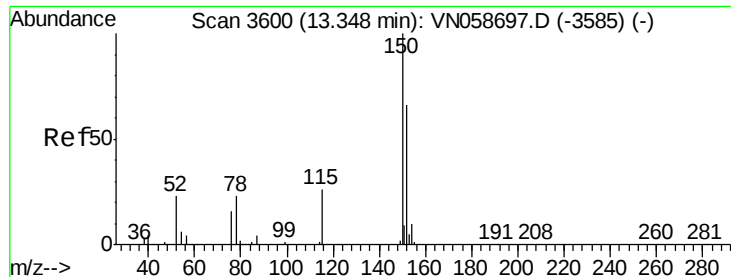


Abundance Ion 116.90 (116.60 to 117.60): VN058697.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058697.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058697.D (-2981) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058836.D

Acq: 17 Oct 2019 18:28

Instrument :

MSVOA_N

ClientSampleId :

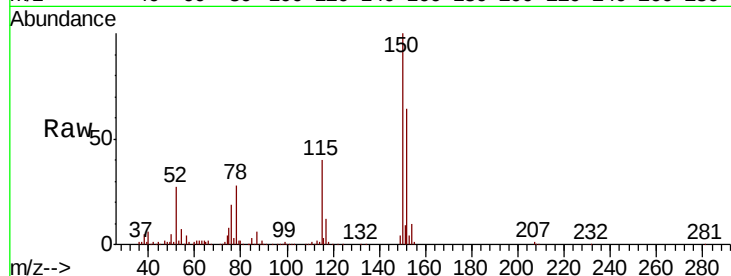
Tot Ion:152 Resp: 192693

Ion Ratio Lower Upper

152 100

115 61.3 30.4 91.2

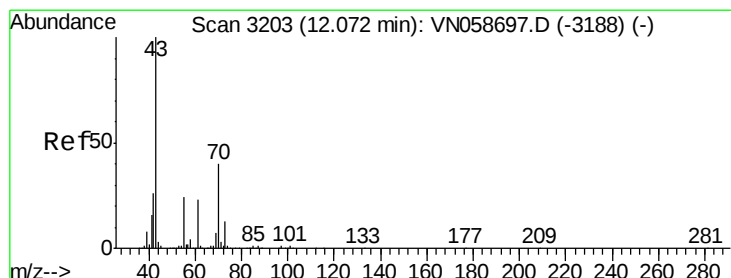
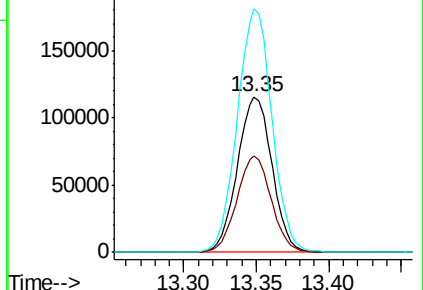
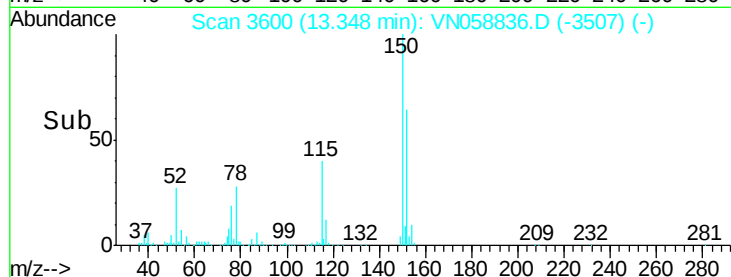
150 156.3 0.0 345.4



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



#74

N-ethyl acetate

Concen: 0.602 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058836.D

Acq: 17 Oct 2019 18:28

Tgt Ion: 43 Resp: 3771

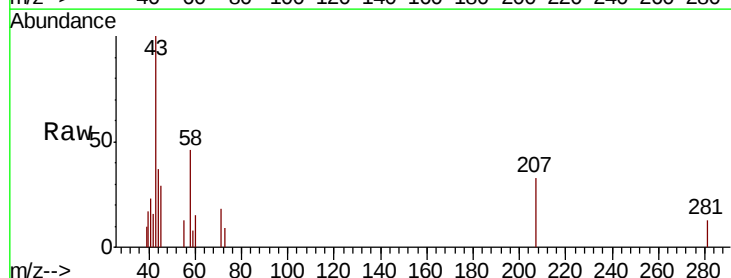
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 8.5 19.6 29.4#

61 0.0 18.6 28.0#

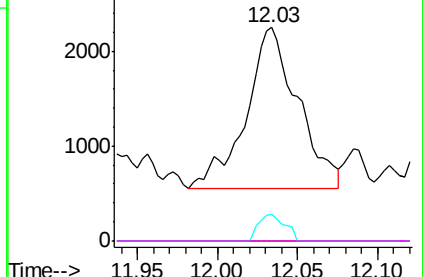
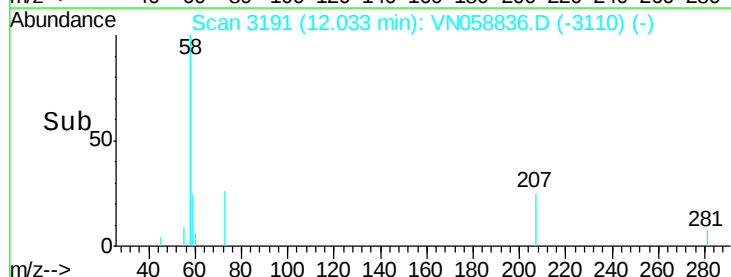


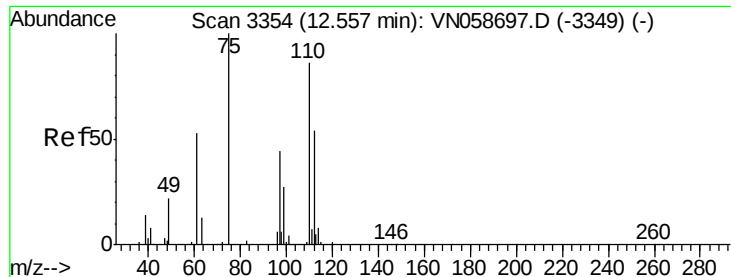
Abundance Ion 43.00 (42.70 to 43.70): V

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: 28.798 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058836.D

Acq: 17 Oct 2019 18:28

Instrument :

MSVOA_N

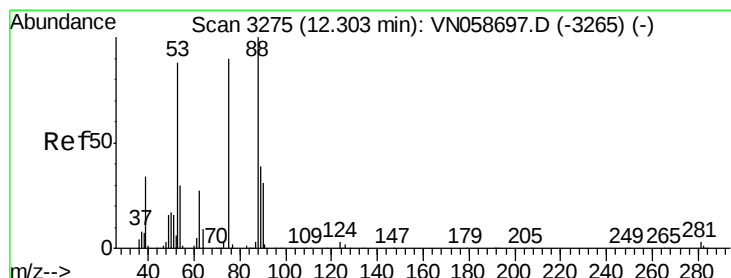
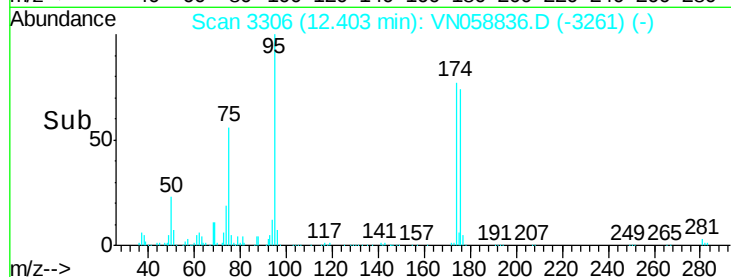
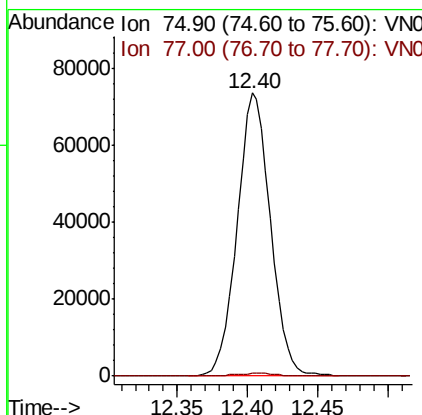
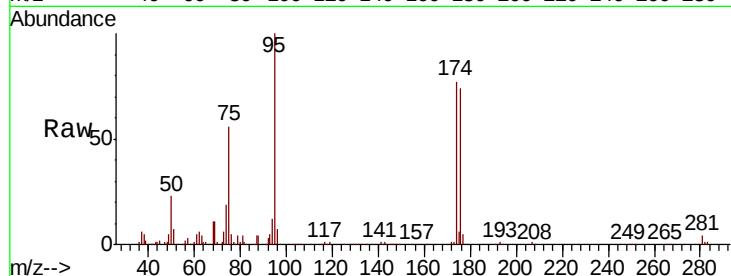
ClientSampleId :

Tot Ion: 75 Resp: 121737

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 77.142 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058836.D

Acq: 17 Oct 2019 18:28

Tgt Ion: 75 Resp: 121737

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.0 34.9 52.3#

