

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102919\
 Data File : VN059007.D
 Acq On : 29 Oct 2019 13:55
 Operator : JC/SP
 Sample : K5576-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 30 03:56:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	386584	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	605730	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	530870	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	183674	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	263748	46.52	ug/l	0.00
Spiked Amount			Recovery	=	93.04%	
35) Dibromofluoromethane	7.57	113	195103	48.99	ug/l	0.00
Spiked Amount			Recovery	=	97.98%	
50) Toluene-d8	10.08	98	759933	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
62) 4-Bromofluorobenzene	12.40	95	232849	41.02	ug/l	0.00
Spiked Amount			Recovery	=	82.04%	

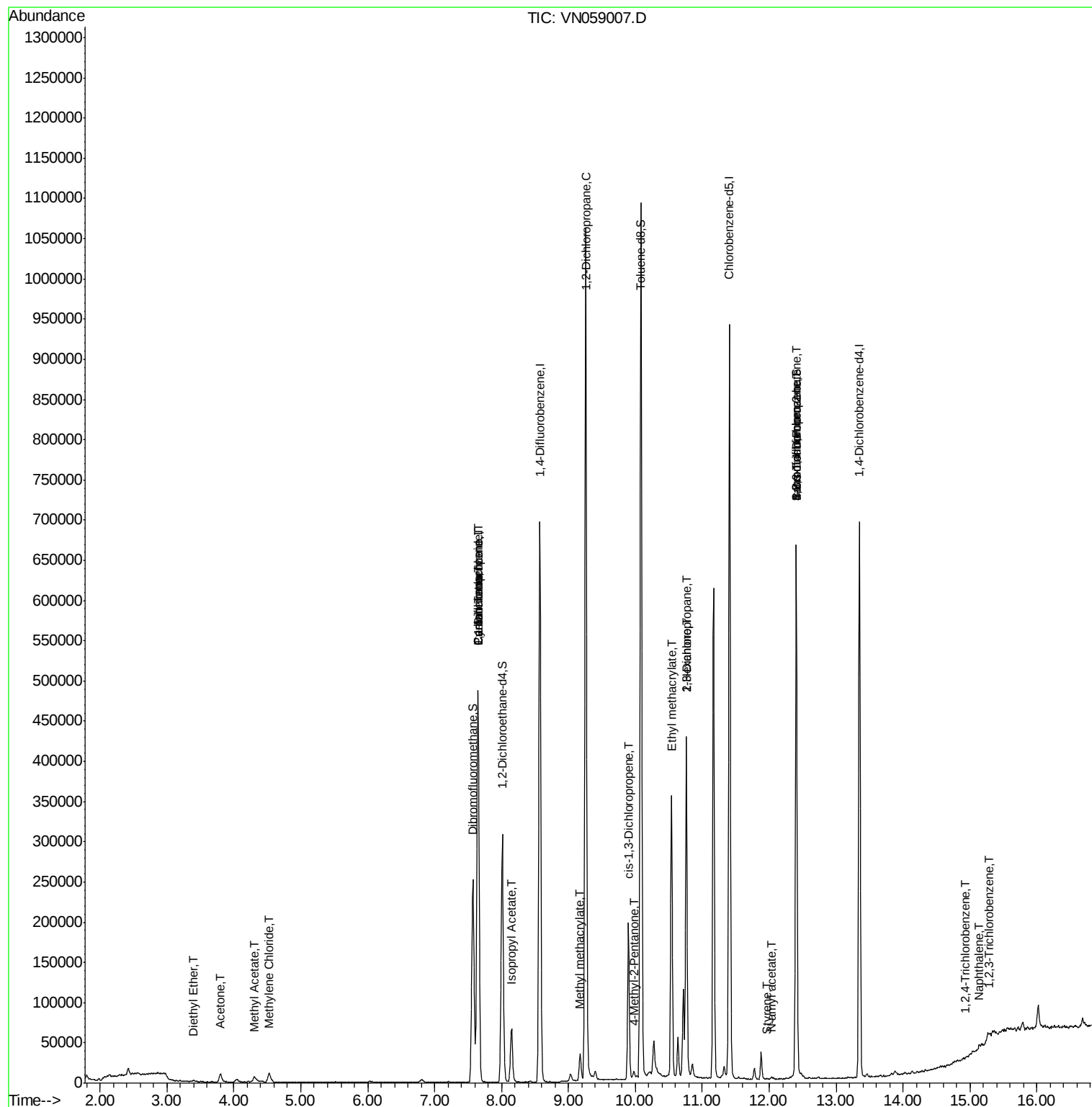
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.40	74	548	0.216	ug/l	55
16) Acetone	3.80	43	19182	6.847	ug/l	98
18) Methyl Acetate	4.30	43	13142	2.063	ug/l #	69
20) Methylene Chloride	4.53	84	8547	1.787	ug/l	92
31) Cyclohexane	7.65	56	8429	1.034	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	32293	5.207	ug/l #	50
38) Carbon Tetrachloride	7.65	117	37640	5.892	ug/l #	17
43) Isopropyl Acetate	8.15	43	80913	7.466	ug/l #	92
45) 1,2-Dichloropropane	9.26	63	1251	0.251	ug/l #	44
48) Methyl methacrylate	9.17	41	5424	1.103	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	7905	1.249	ug/l #	83
54) cis-1,3-Dichloropropene	9.90	75	34096	4.431	ug/l #	65
56) Ethyl methacrylate	10.54	69	1488	2.288	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4409	0.565	ug/l #	43
59) 2-Hexanone	10.76	43	62399	12.757	ug/l #	55
70) Styrene	11.97	104	257	1.734	ug/l #	52
71) Bromoform	12.41	173	1181	0.373	ug/l #	1
74) N-amyl acetate	12.03	43	2228	0.366	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	118550	27.849	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	118550	72.550	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.92	180	448	2.637	ug/l #	19
95) Naphthalene	15.13	128	2581	2.460	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.30	180	609	2.557	ug/l	96

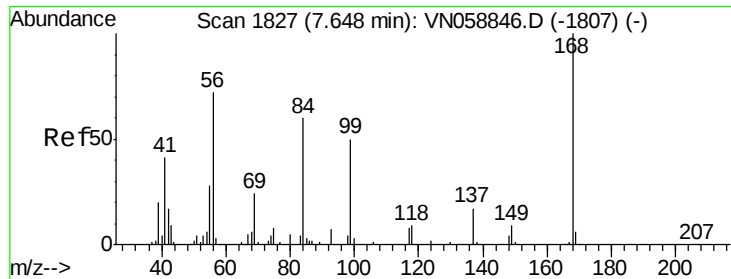
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Oct 19 00:16:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059007.D

Acq: 29 Oct 2019 13:55

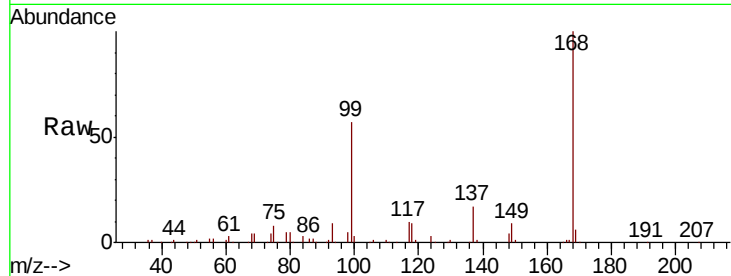
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 386584

Ion Ratio Lower Upper

168 100

99 57.2 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

150000

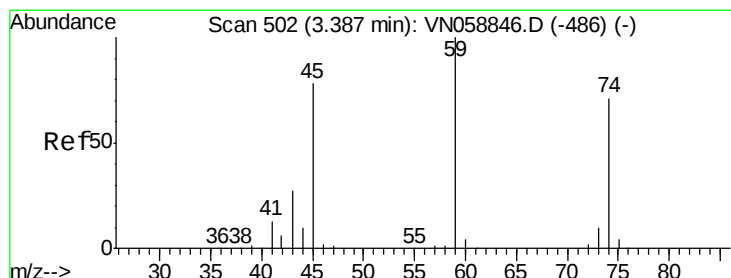
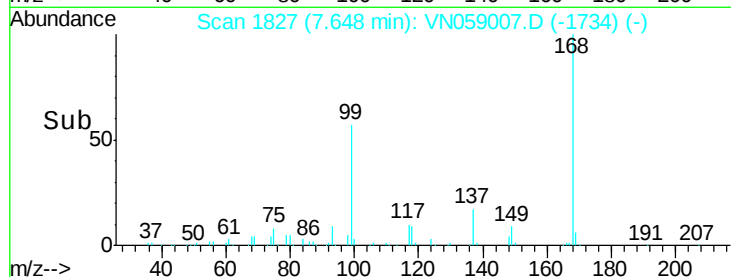
100000

50000

0

7.60 7.70

Time-->



#8

Diethyl Ether

Concen: 0.216 ug/l

RT: 3.40 min Scan# 505

Delta R.T. 0.01 min

Lab File: VN059007.D

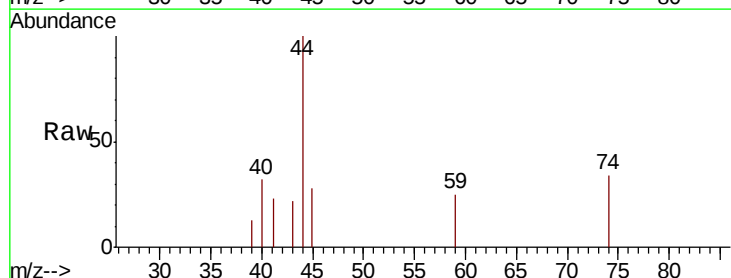
Acq: 29 Oct 2019 13:55

Tgt Ion: 74 Resp: 548

Ion Ratio Lower Upper

74 100

45 61.9 54.9 164.5



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

3.40

500

400

300

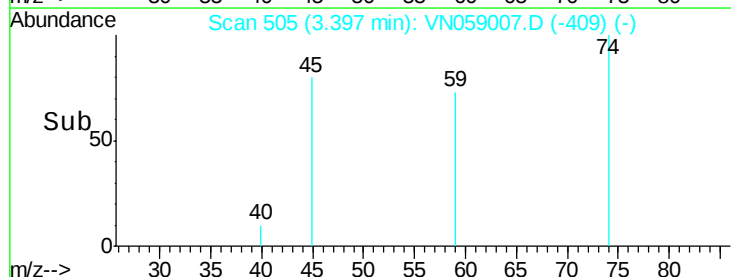
200

100

0

3.36 3.38 3.40 3.42

Time-->





#16

Acetone

Concen: 6.847 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN059007.D

Acq: 29 Oct 2019 13:55

Instrument :

MSVOA_N

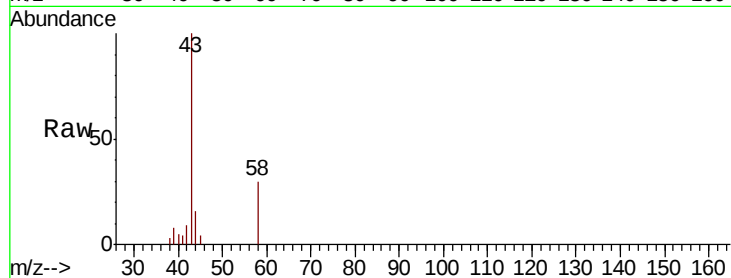
ClientSampleId :

Tot Ion: 43 Resp: 19182

Ion Ratio Lower Upper

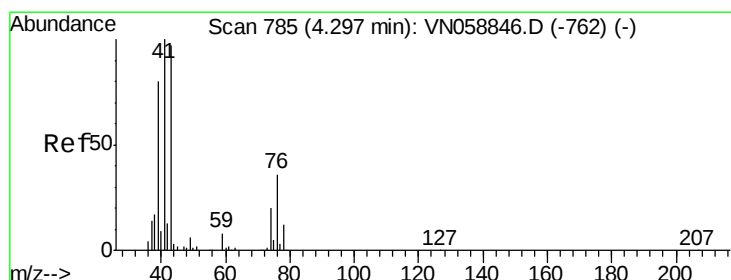
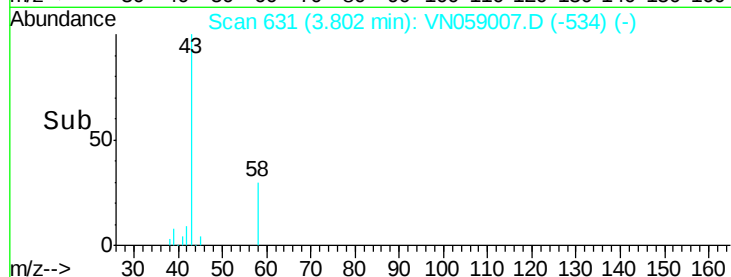
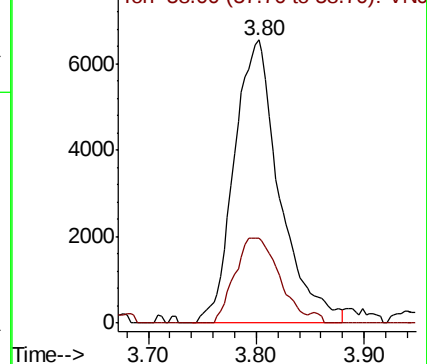
43 100

58 30.1 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.063 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN059007.D

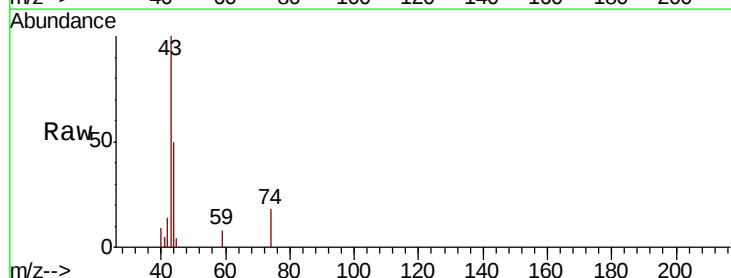
Acq: 29 Oct 2019 13:55

Tgt Ion: 43 Resp: 13142

Ion Ratio Lower Upper

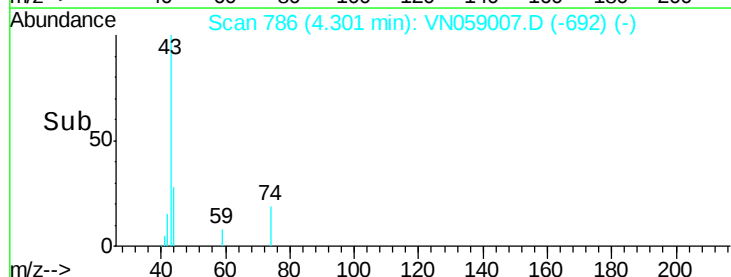
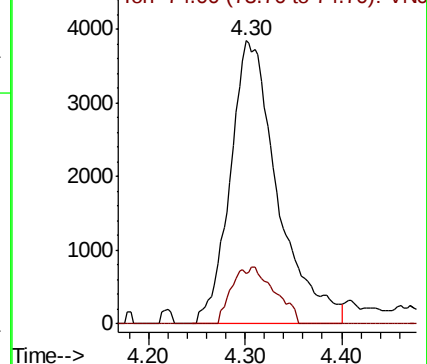
43 100

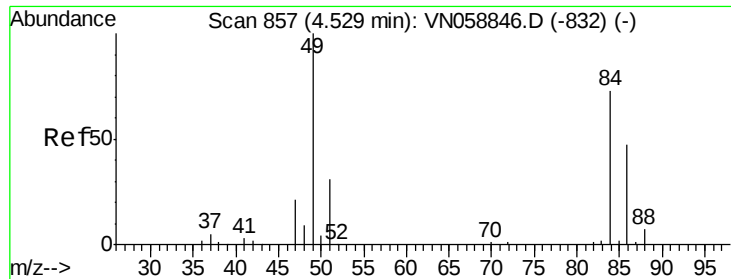
74 6.6 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

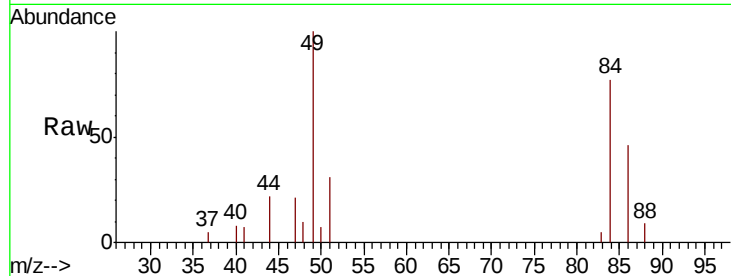




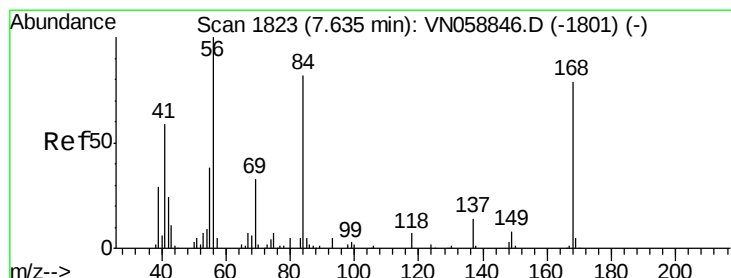
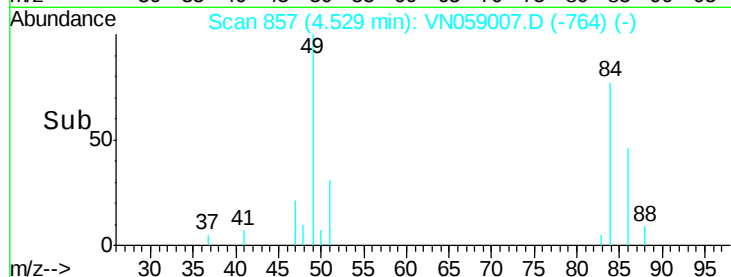
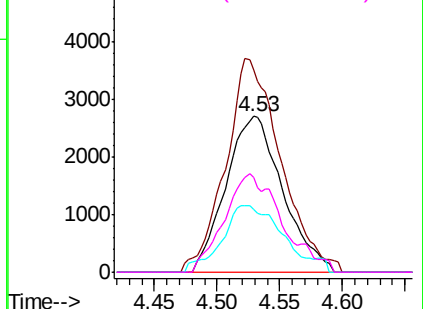
#20
Methvlene Chloride
Concen: 1.787 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN059007.D
Acq: 29 Oct 2019 13:55

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 8547
Ion Ratio Lower Upper
84 100
49 123.9 109.6 164.4
51 40.0 33.8 50.6
86 60.5 51.5 77.3

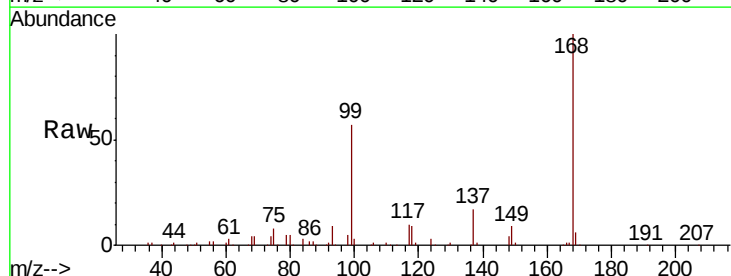


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

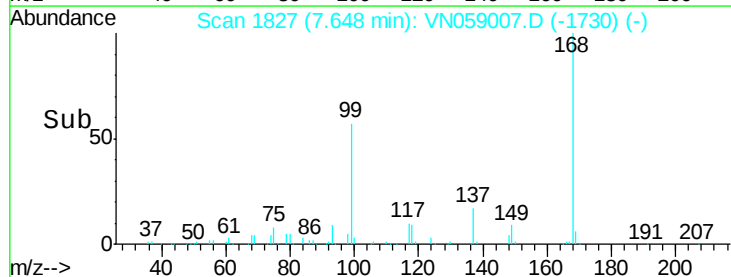
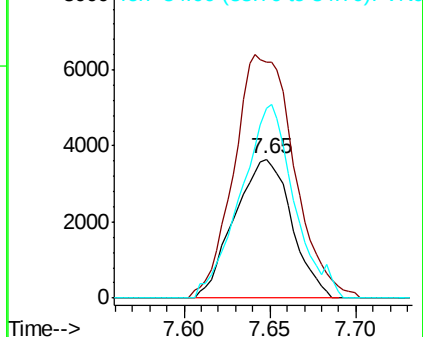


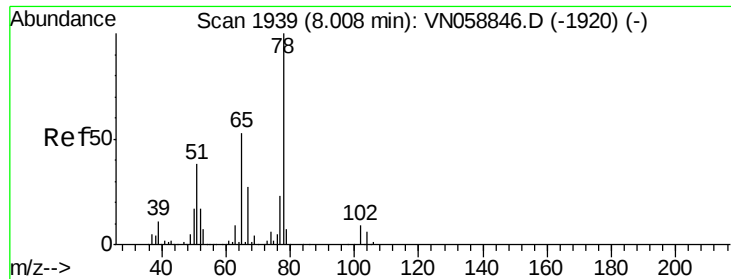
#31
Cyclohexane
Concen: 1.034 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN059007.D
Acq: 29 Oct 2019 13:55

Tgt Ion: 56 Resp: 8429
Ion Ratio Lower Upper
56 100
69 169.9 26.2 39.4#
84 136.3 65.6 98.4#



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

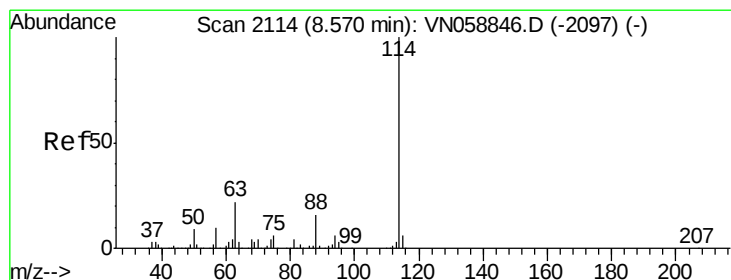
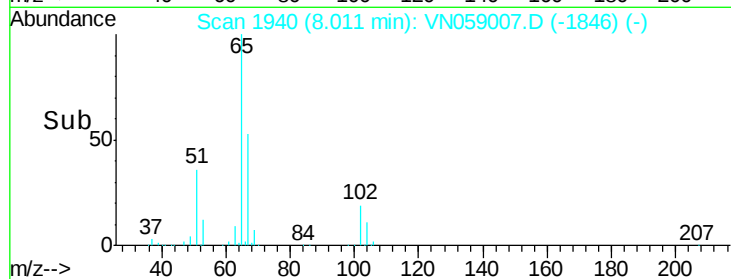
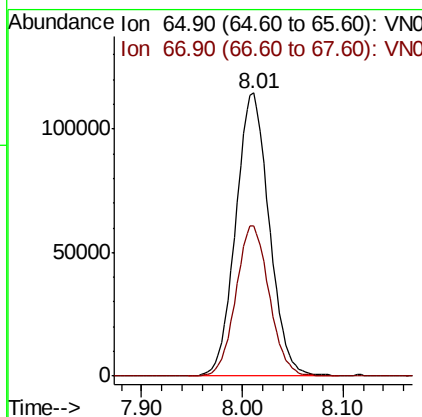
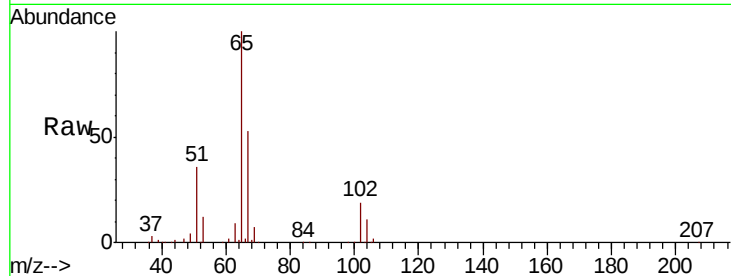




#33
 1,2-Dichloroethane-d4
 Concen: 46.518 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN059007.D
 Acq: 29 Oct 2019 13:55

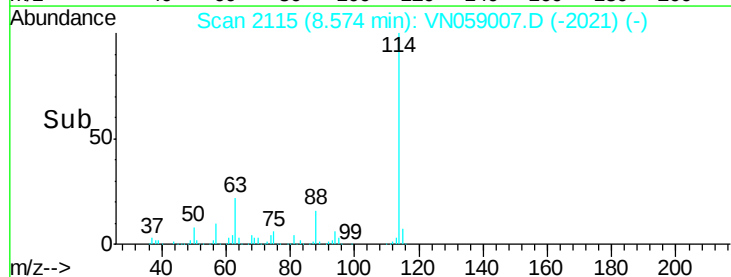
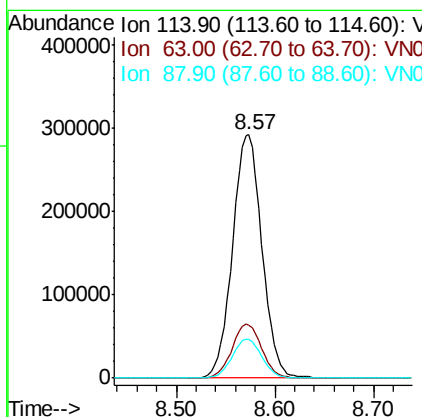
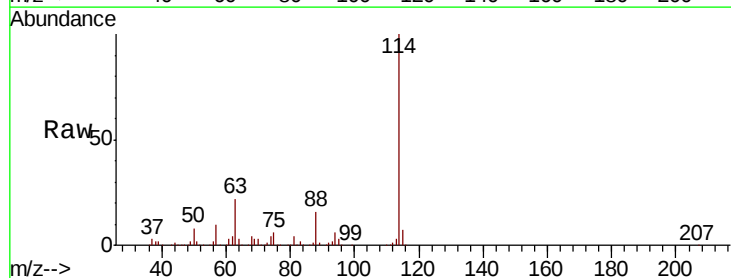
Instrument :
 MSVOA_N
 ClientSampled :

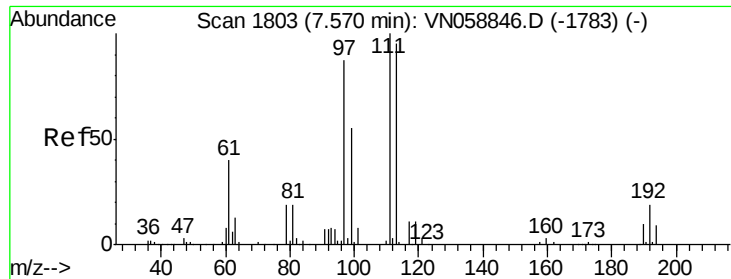
Tot Ion: 65 Resp: 263748
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN059007.D
 Acq: 29 Oct 2019 13:55

Tgt Ion: 114 Resp: 605730
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 44.4
 88 16.0 0.0 31.4

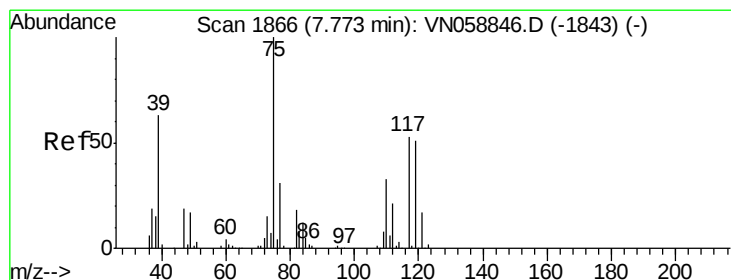
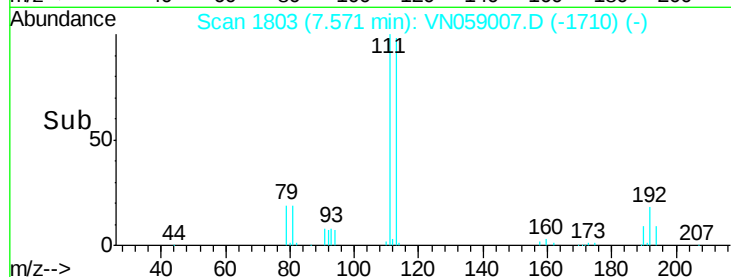
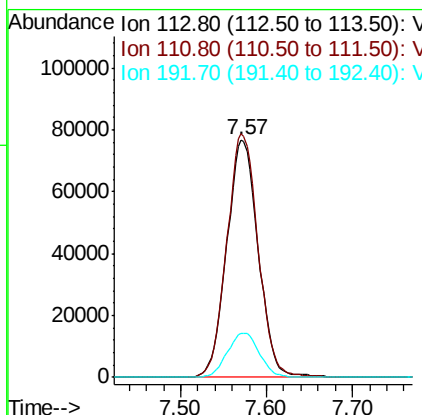
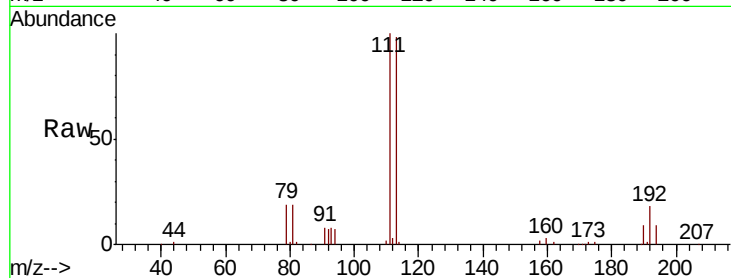




#35
 Dibromofluoromethane
 Concen: 48.990 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059007.D
 Acq: 29 Oct 2019 13:55

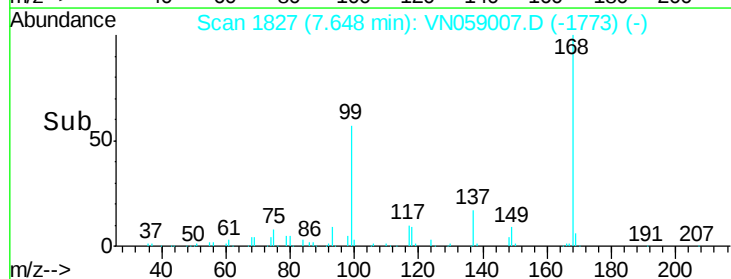
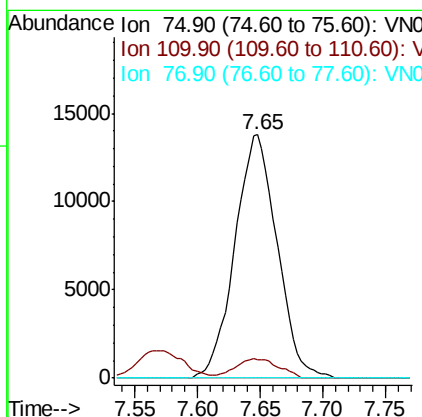
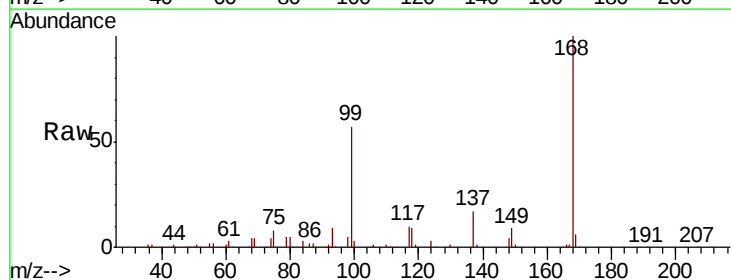
Instrument :
 MSVOA_N
 ClientSampleId :

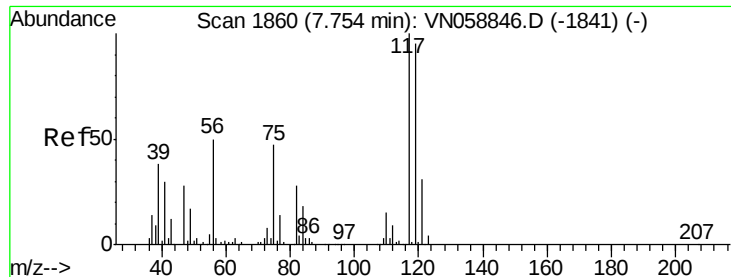
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.0	123.0
192	18.9	15.0	22.6



#36
 1,1-Dichloropropene
 Concen: 5.207 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN059007.D
 Acq: 29 Oct 2019 13:55

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.3	48.9#
77	0.0	24.6	36.8#

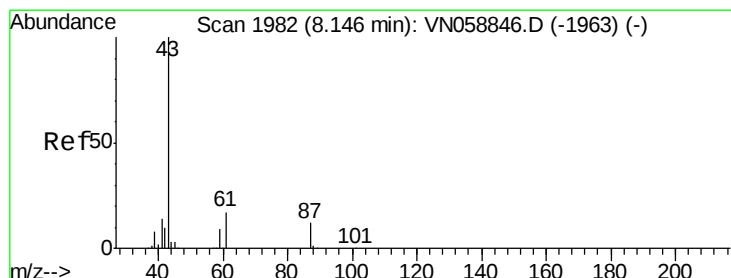
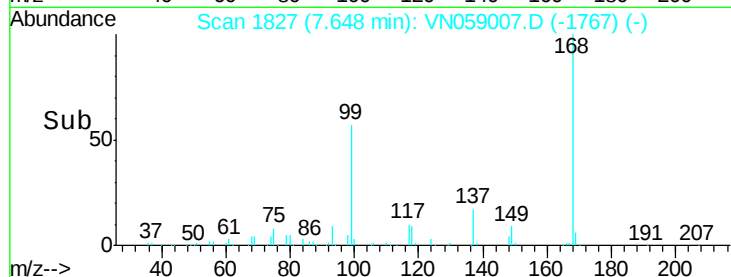
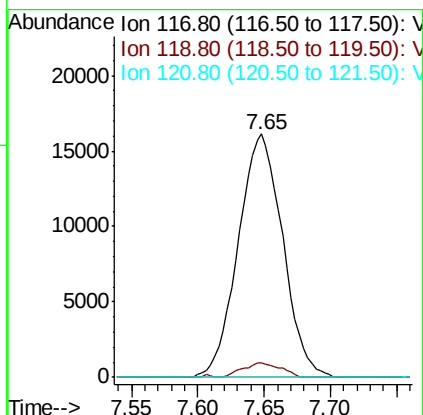
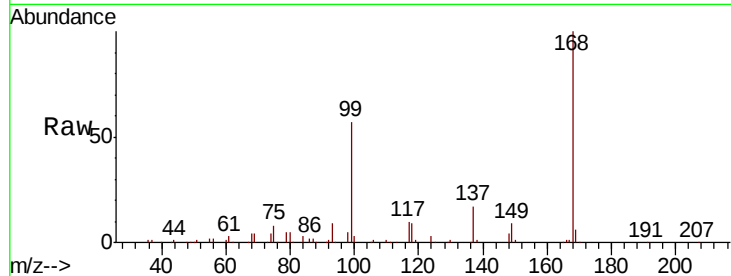




#38
Carbon Tetrachloride
Concen: 5.892 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN059007.D
Acq: 29 Oct 2019 13:55

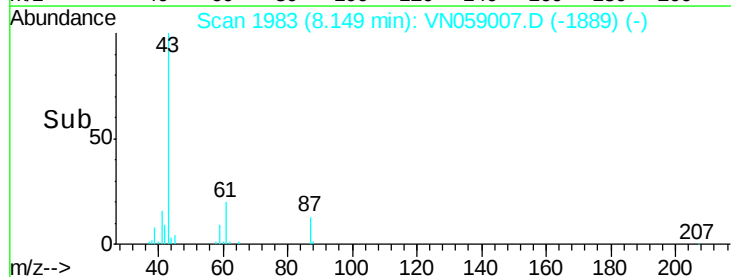
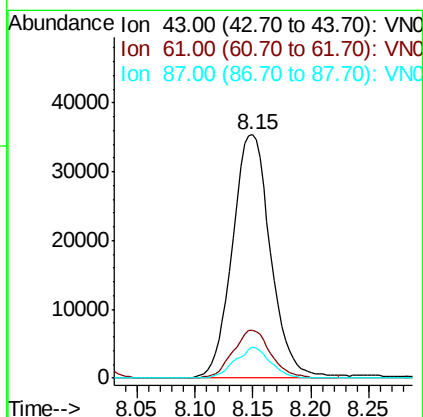
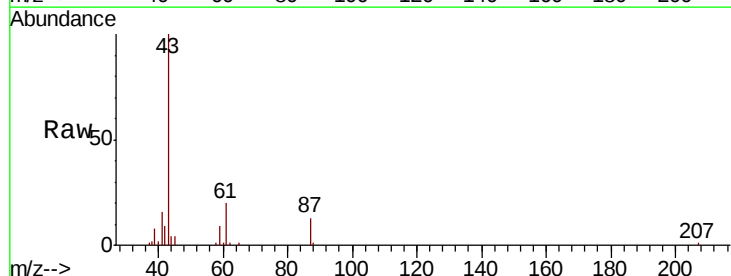
Instrument :
MSVOA_N
ClientSampled :

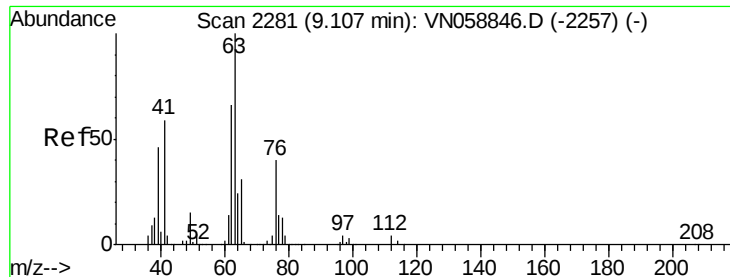
Tot Ion:117 Resp: 37640
Ion Ratio Lower Upper
117 100
119 6.1 75.7 113.5#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 7.466 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VN059007.D
Acq: 29 Oct 2019 13:55

Tgt Ion: 43 Resp: 80913
Ion Ratio Lower Upper
43 100
61 19.2 20.2 30.2#
87 11.5 9.5 14.3





#45

1,2-Dichloropropane

Concen: 0.251 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN059007.D

Acq: 29 Oct 2019 13:55

Instrument :

MSVOA_N

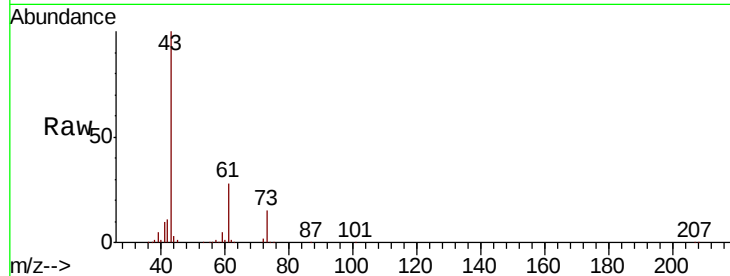
ClientSampleId :

Tot Ion: 63 Resp: 1251

Ion Ratio Lower Upper

63 100

65 0.0 24.5 36.7#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.26

800

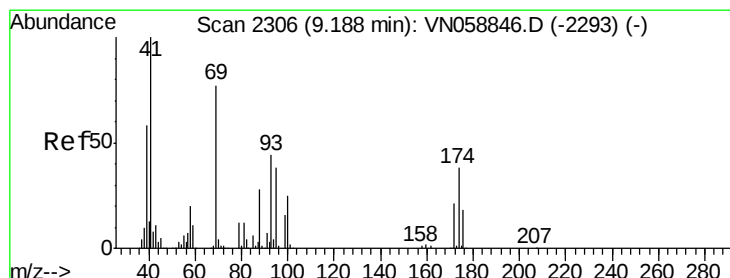
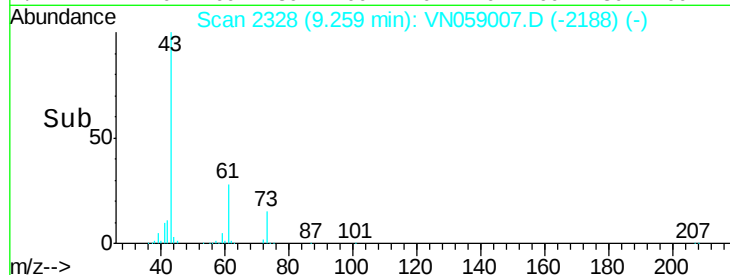
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.103 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.02 min

Lab File: VN059007.D

Acq: 29 Oct 2019 13:55

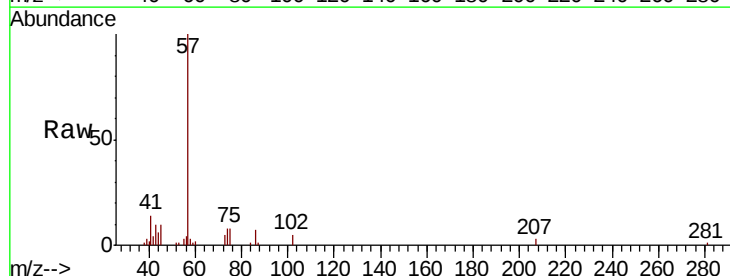
Tgt Ion: 41 Resp: 5424

Ion Ratio Lower Upper

41 100

69 0.0 63.8 95.6#

39 0.0 47.8 71.8#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

50000

40000

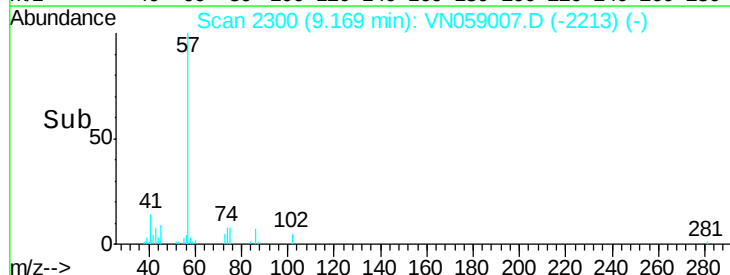
30000

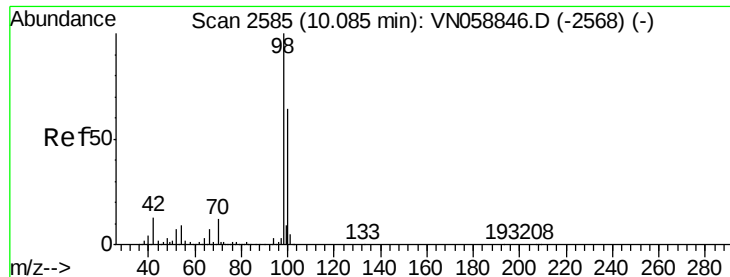
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 49.156 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN059007.D

Acq: 29 Oct 2019 13:55

Instrument :

MSVOA_N

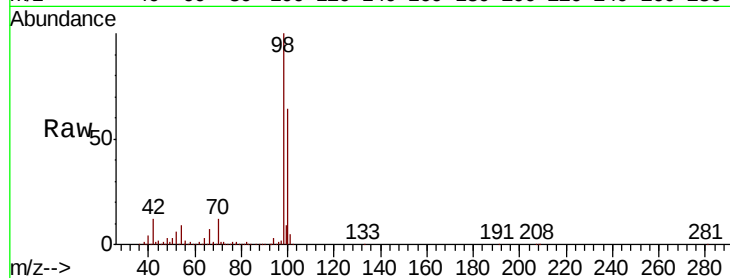
ClientSampled :

Tot Ion: 98 Resp: 759933

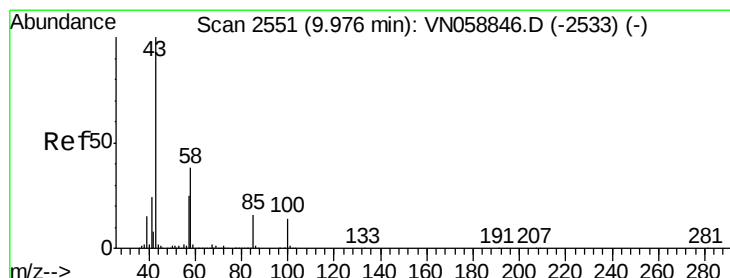
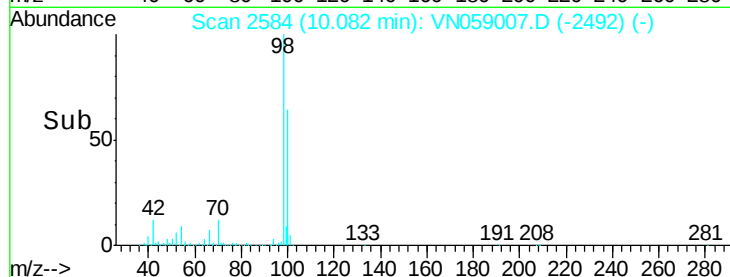
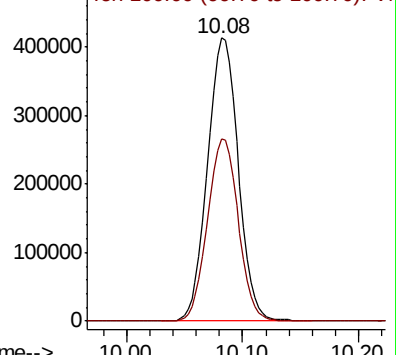
Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN058846.D (-2568) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.249 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059007.D

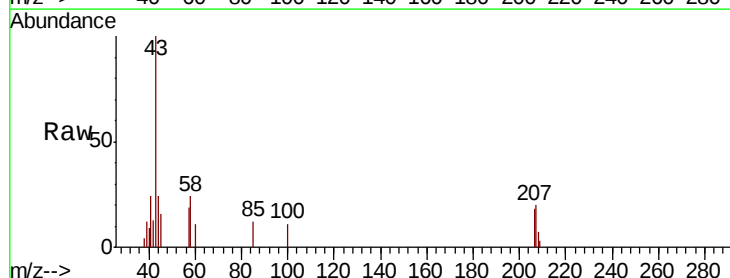
Acq: 29 Oct 2019 13:55

Tgt Ion: 43 Resp: 7905

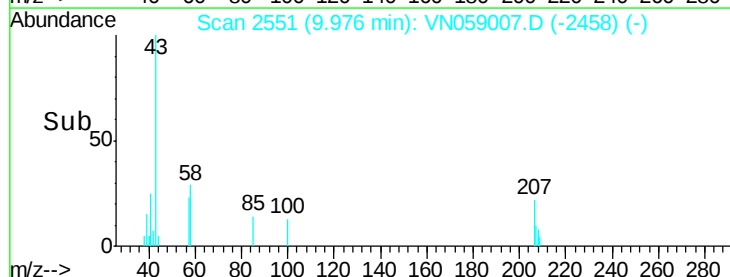
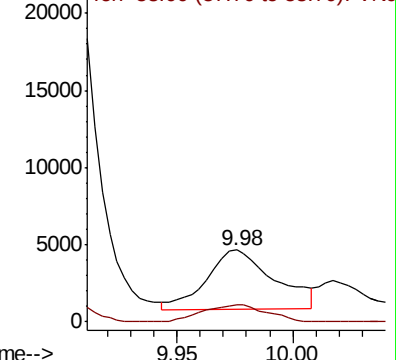
Ion Ratio Lower Upper

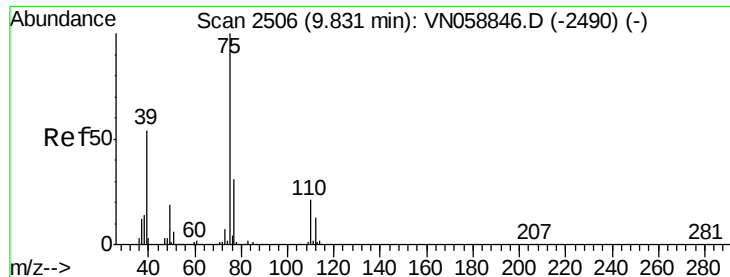
43 100

58 27.1 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN058846.D (-2533) (-)



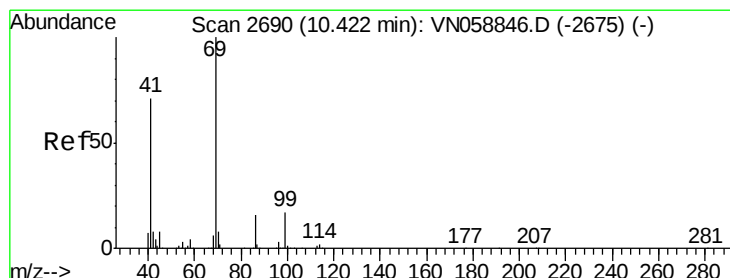
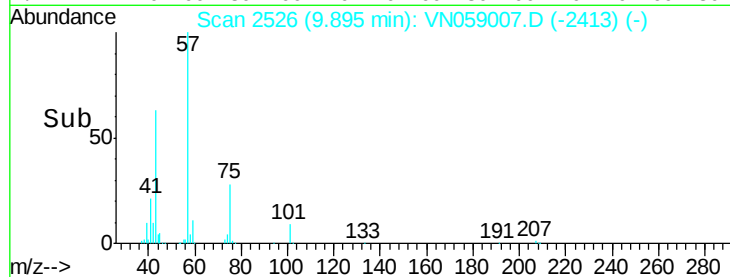
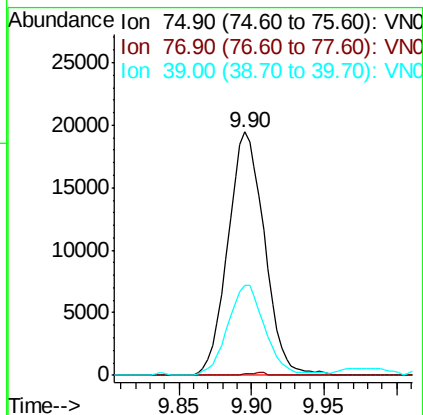
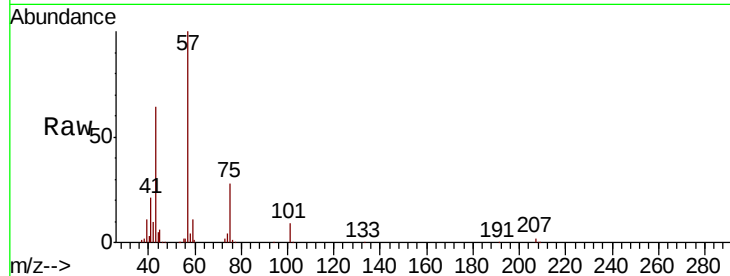


#54

cis-1,3-Dichloropropene
 Concen: 4.431 ug/l
 RT: 9.90 min Scan# 2526
 Delta R.T. 0.06 min
 Lab File: VN059007.D
 Acq: 29 Oct 2019 13:55

Instrument :
 MSVOA_N
 ClientSampled :

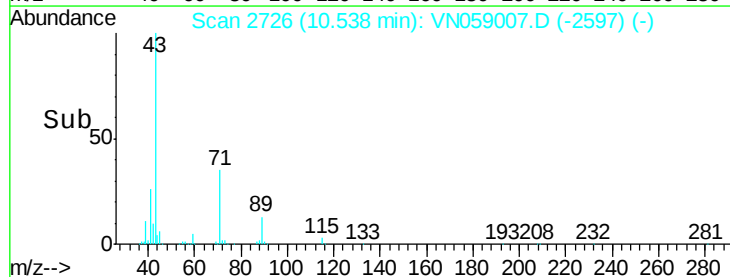
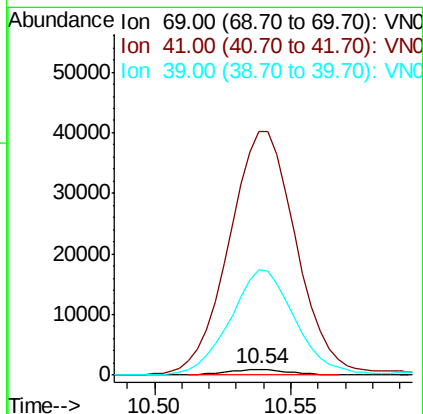
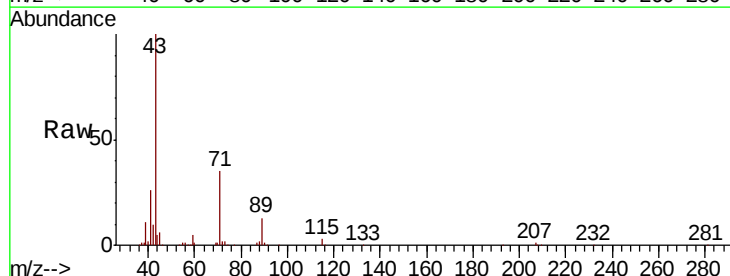
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.8	24.7	37.1#
39	37.2	43.5	65.3#

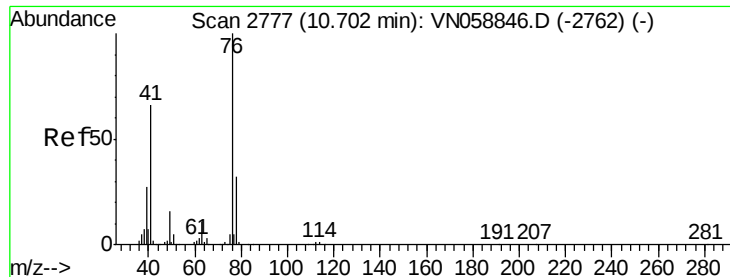


#56

Ethyl methacrylate
 Concen: 2.288 ug/l
 RT: 10.54 min Scan# 2726
 Delta R.T. 0.12 min
 Lab File: VN059007.D
 Acq: 29 Oct 2019 13:55

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4671.2	57.2	85.8#
39	1935.7	31.0	46.4#

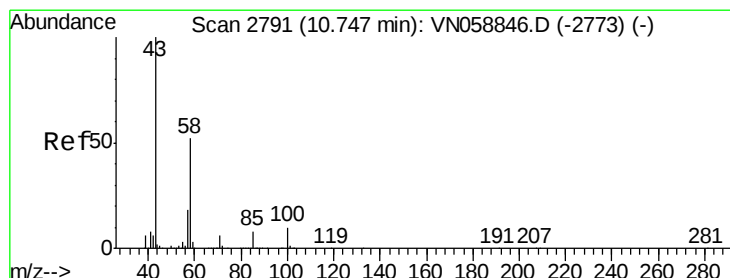
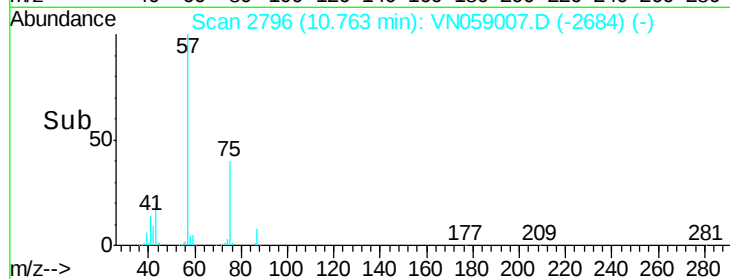
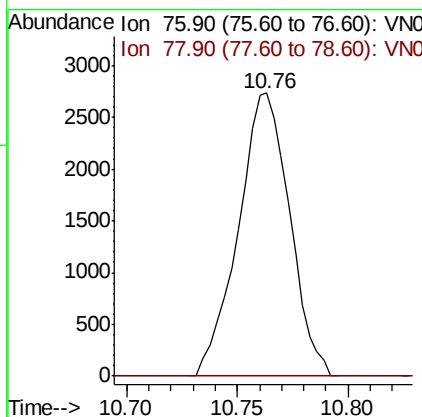
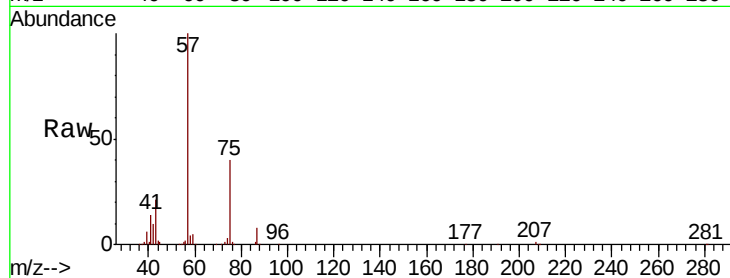




#57
 1,3-Dichloropropane
 Concen: 0.565 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN059007.D
 Acq: 29 Oct 2019 13:55

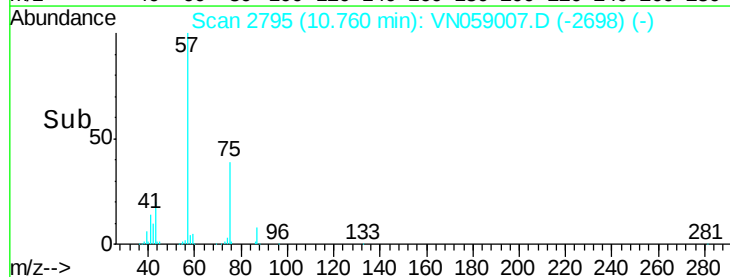
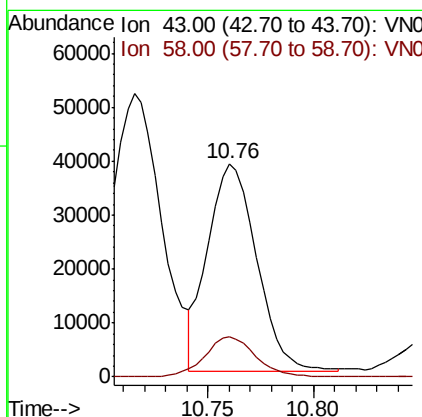
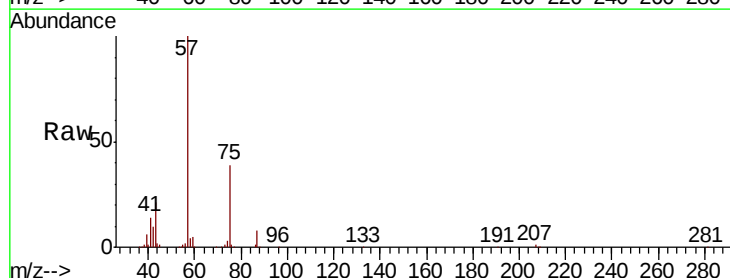
Instrument :
 MSVOA_N
 ClientSampleId :

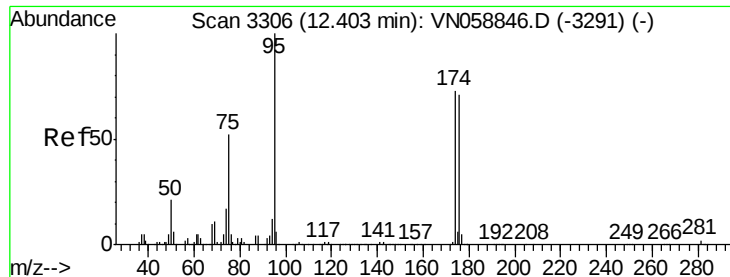
Tot Ion: 76 Resp: 4409
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#



#59
 2-Hexanone
 Concen: 12.757 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: VN059007.D
 Acq: 29 Oct 2019 13:55

Tgt Ion: 43 Resp: 62399
 Ion Ratio Lower Upper
 43 100
 58 19.9 25.9 77.7#





#62

4-Bromofluorobenzene

Concen: 41.015 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059007.D

Acq: 29 Oct 2019 13:55

Instrument :

MSVOA_N

ClientSampled :

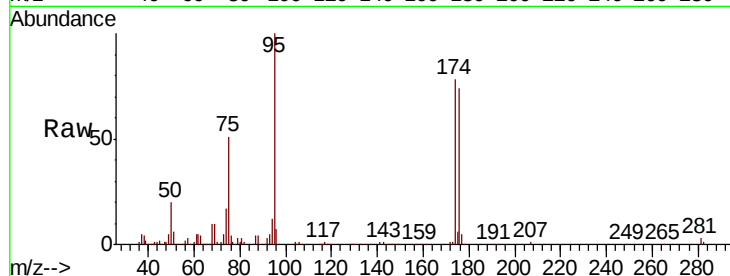
Tot Ion: 95 Resp: 232849

Ion Ratio Lower Upper

95 100

174 77.6 0.0 147.6

176 74.5 0.0 143.2

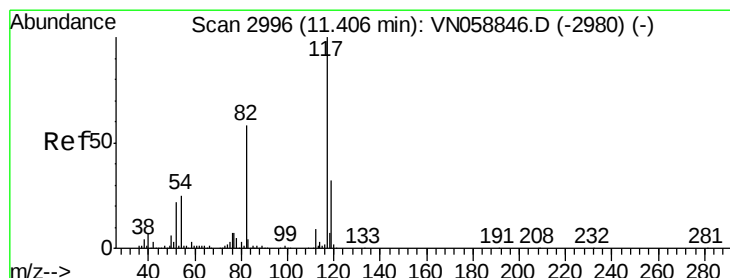
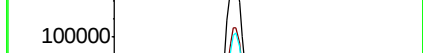
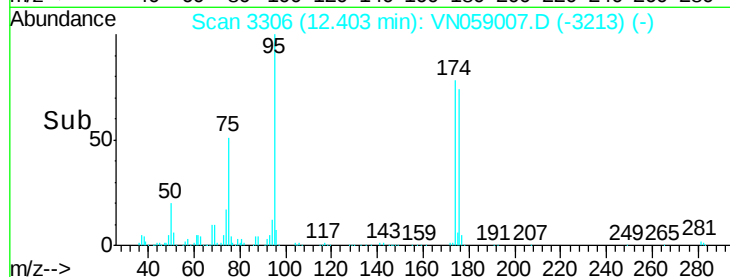


Abundance Ion 94.90 (94.60 to 95.60): VN058846.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058846.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058846.D (-3291) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN059007.D

Acq: 29 Oct 2019 13:55

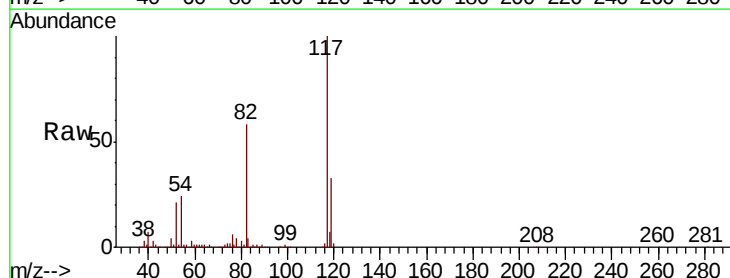
Tgt Ion: 117 Resp: 530870

Ion Ratio Lower Upper

117 100

82 58.4 46.6 69.8

119 33.0 25.6 38.4

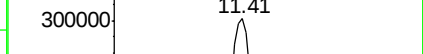
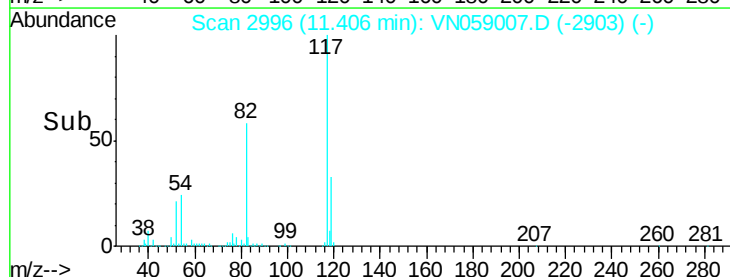


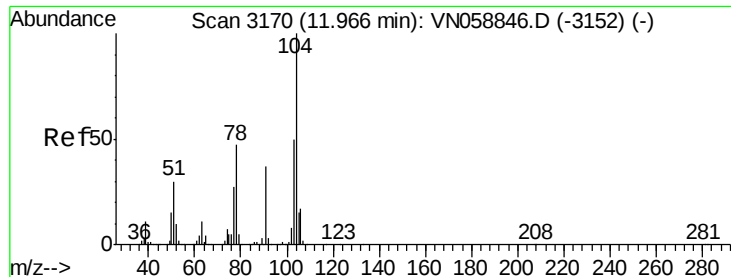
Abundance Ion 116.90 (116.60 to 117.60): VN058846.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058846.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058846.D (-2980) (-)

Time-->





#70

Stvrene

Concen: 1.734 ug/l

RT: 11.97 min Scan# 3171

Delta R.T. 0.00 min

Lab File: VN059007.D

Acq: 29 Oct 2019 13:55

Instrument :

MSVOA_N

ClientSampleId :

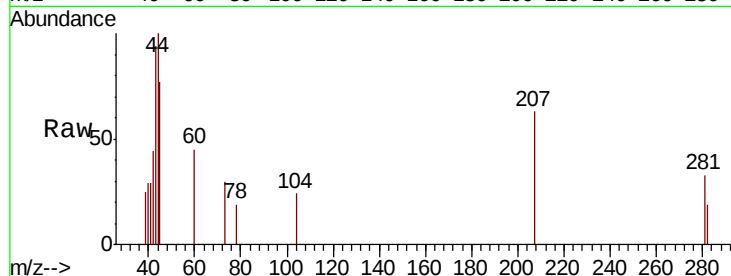
Tot Ion:104 Resp: 257

Ion Ratio Lower Upper

104 100

78 40.5 42.8 64.2#

103 0.0 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V

11.97

250

200

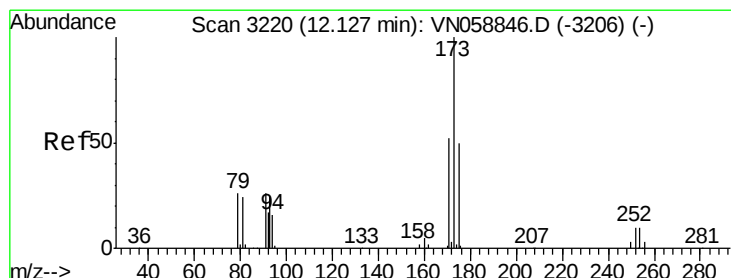
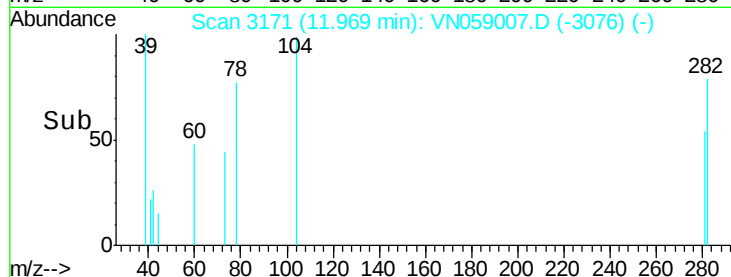
150

100

50

0

Time--> 11.94 11.96 11.98



#71

Bromoform

Concen: 0.373 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN059007.D

Acq: 29 Oct 2019 13:55

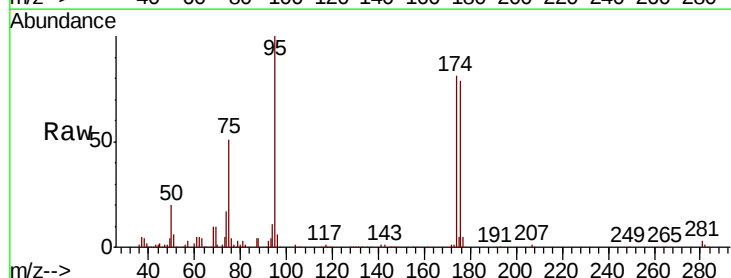
Tgt Ion:173 Resp: 1181

Ion Ratio Lower Upper

173 100

175 850.8 24.7 74.1#

254 0.0 0.0 0.0



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

10000

8000

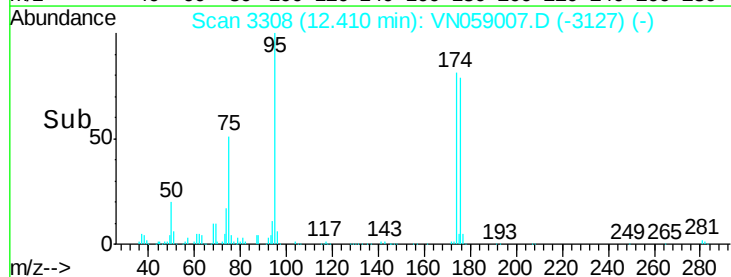
6000

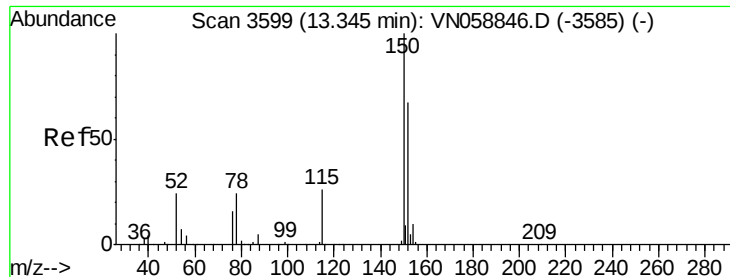
4000

2000

0

Time--> 12.36 12.38 12.40 12.42





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN059007.D

Acq: 29 Oct 2019 13:55

Instrument :

MSVOA_N

ClientSampleId :

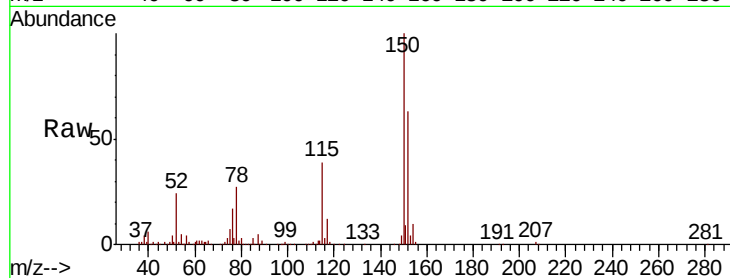
Tot Ion:152 Resp: 183674

Ion Ratio Lower Upper

152 100

115 60.8 30.5 91.5

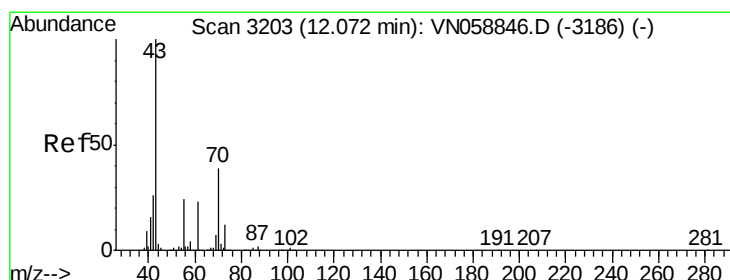
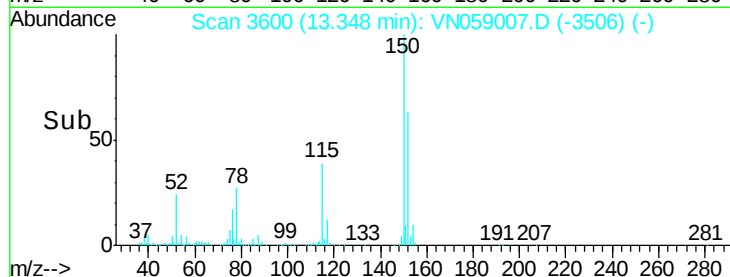
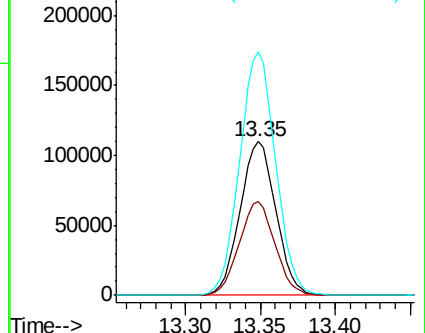
150 158.9 0.0 344.4



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



#74

N-ethyl acetate

Concen: 0.366 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN059007.D

Acq: 29 Oct 2019 13:55

Tgt Ion: 43 Resp: 2228

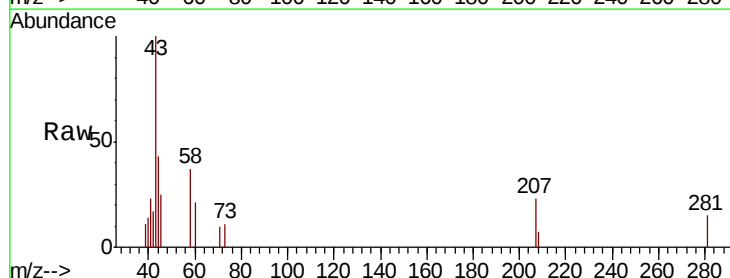
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 0.0 19.7 29.5#

61 0.0 18.2 27.4#

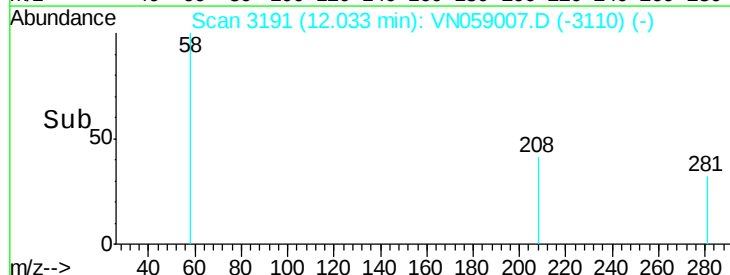
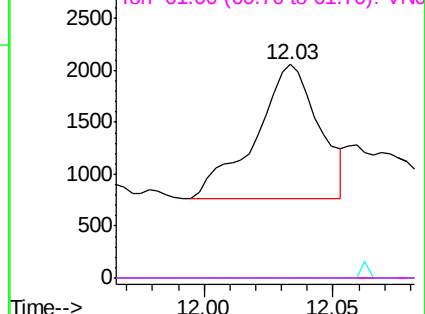


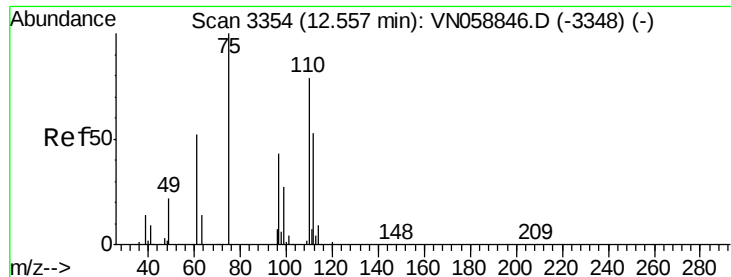
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 27.849 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059007.D

Acq: 29 Oct 2019 13:55

Instrument :

MSVOA_N

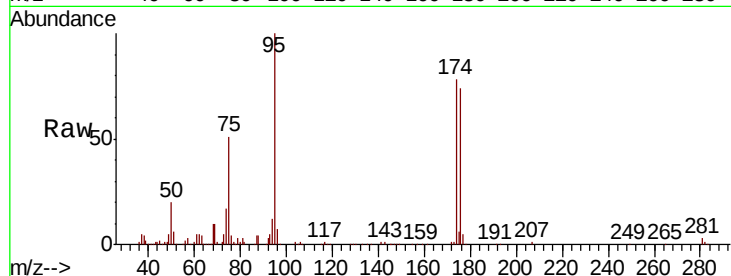
ClientSampleId :

Tot Ion: 75 Resp: 118550

Ion Ratio Lower Upper

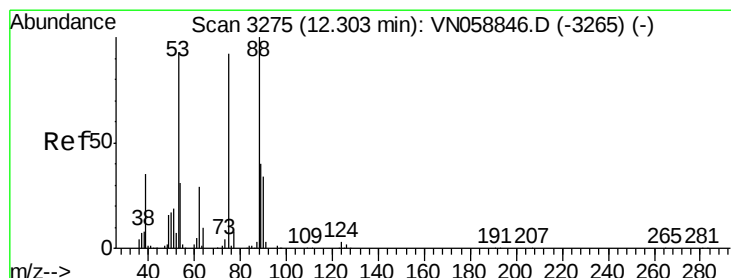
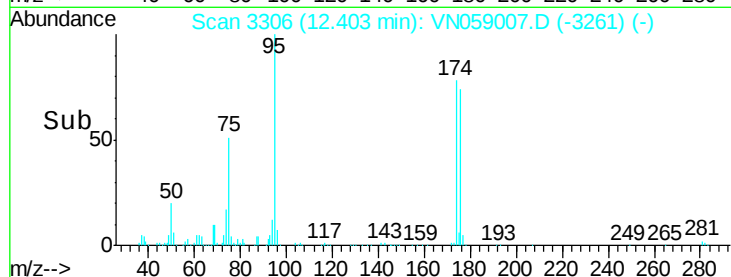
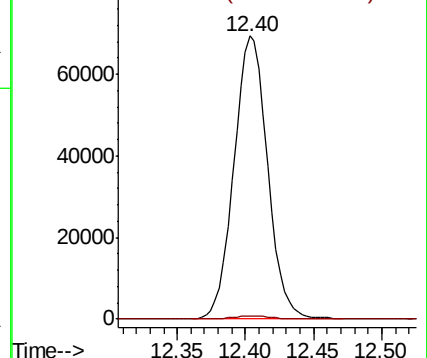
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 72.550 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059007.D

Acq: 29 Oct 2019 13:55

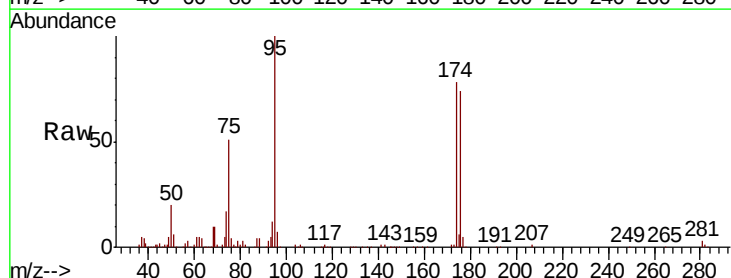
Tgt Ion: 75 Resp: 118550

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

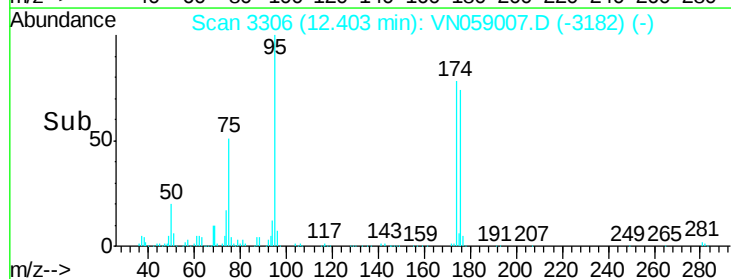
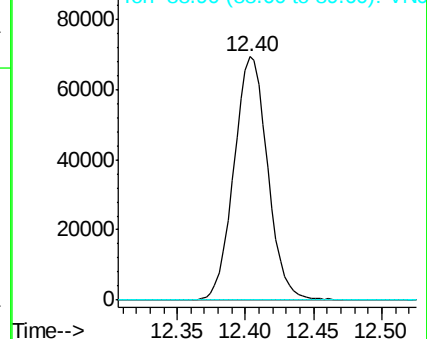
89 0.0 35.4 53.0#

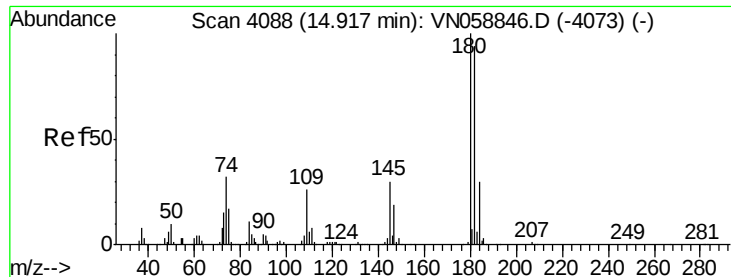


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

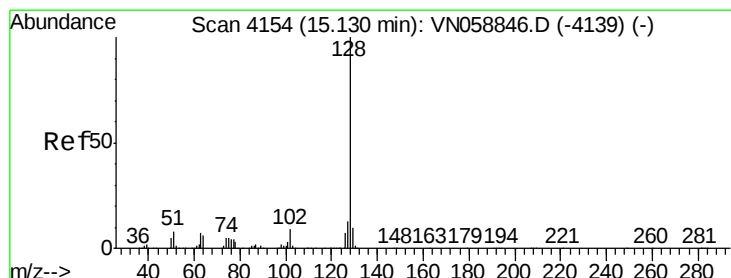
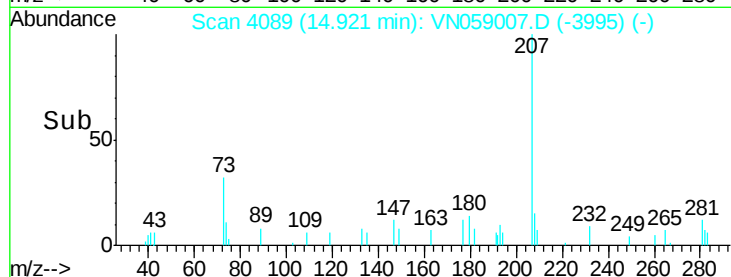
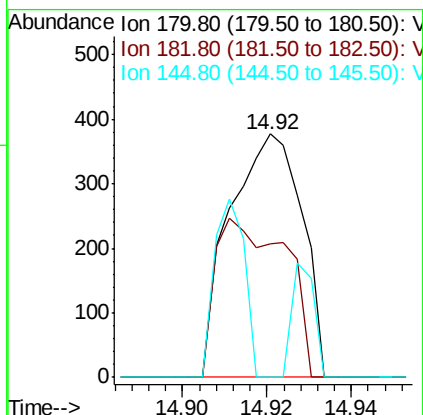
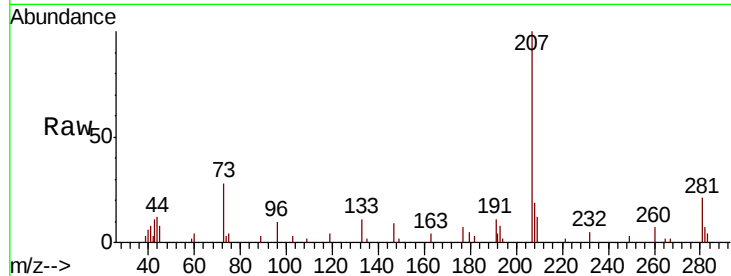




#93
 1,2,4-Trichlorobenzene
 Concen: 2.637 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.00 min
 Lab File: VN059007.D
 Acq: 29 Oct 2019 13:55

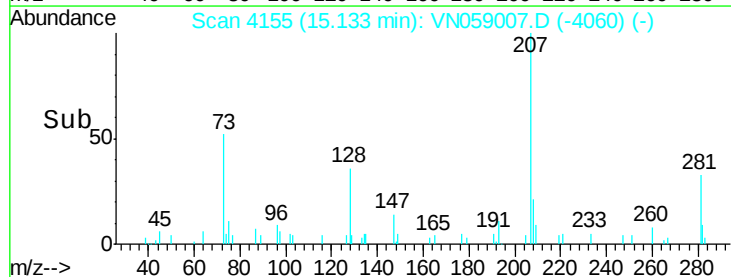
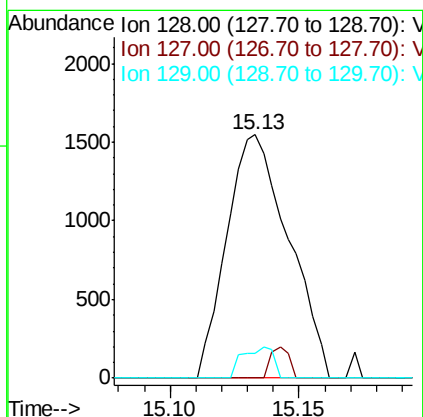
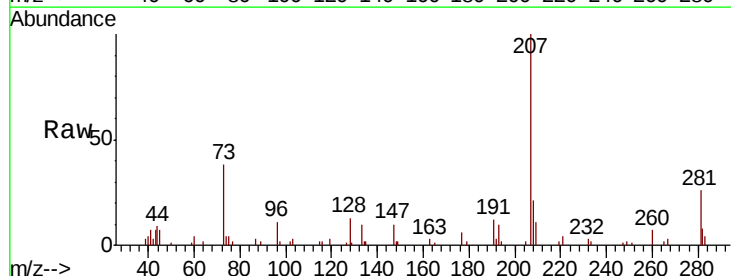
Instrument :
 MSVOA_N
 ClientSampled :

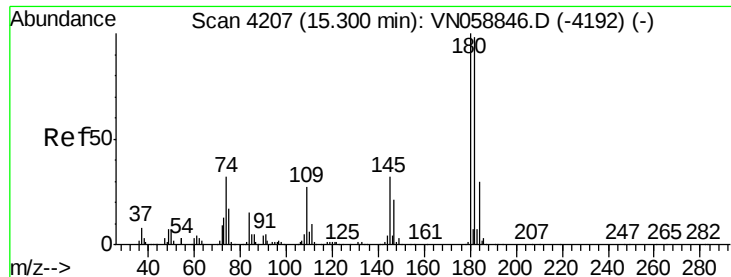
Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.3	142.0#
145	14.3	15.3	45.8#



#95
 Naphthalene
 Concen: 2.460 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN059007.D
 Acq: 29 Oct 2019 13:55

Tgt Ion	Ratio	Lower	Upper
128	100		
127	3.9	10.2	15.2#
129	6.3	8.4	12.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.557 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. -0.00 min
 Lab File: VN059007.D
 Acq: 29 Oct 2019 13:55

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.7	47.9	143.7
145	30.5	15.9	47.7

