

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033120\
 Data File : VN060798.D
 Acq On : 31 Mar 2020 19:52
 Operator : JC/MD
 Sample : PB127897ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 01 08:25:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	189659	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	319065	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	300179	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	139696	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	124842	47.95	ug/l	0.00
Spiked Amount						
			Recovery	=	95.90%	
35) Dibromofluoromethane	7.56	113	95007	49.24	ug/l	0.00
Spiked Amount						
			Recovery	=	98.48%	
50) Toluene-d8	10.08	98	395550	50.19	ug/l	0.00
Spiked Amount						
			Recovery	=	100.38%	
62) 4-Bromofluorobenzene	12.40	95	149758	51.85	ug/l	0.00
Spiked Amount						
			Recovery	=	103.70%	

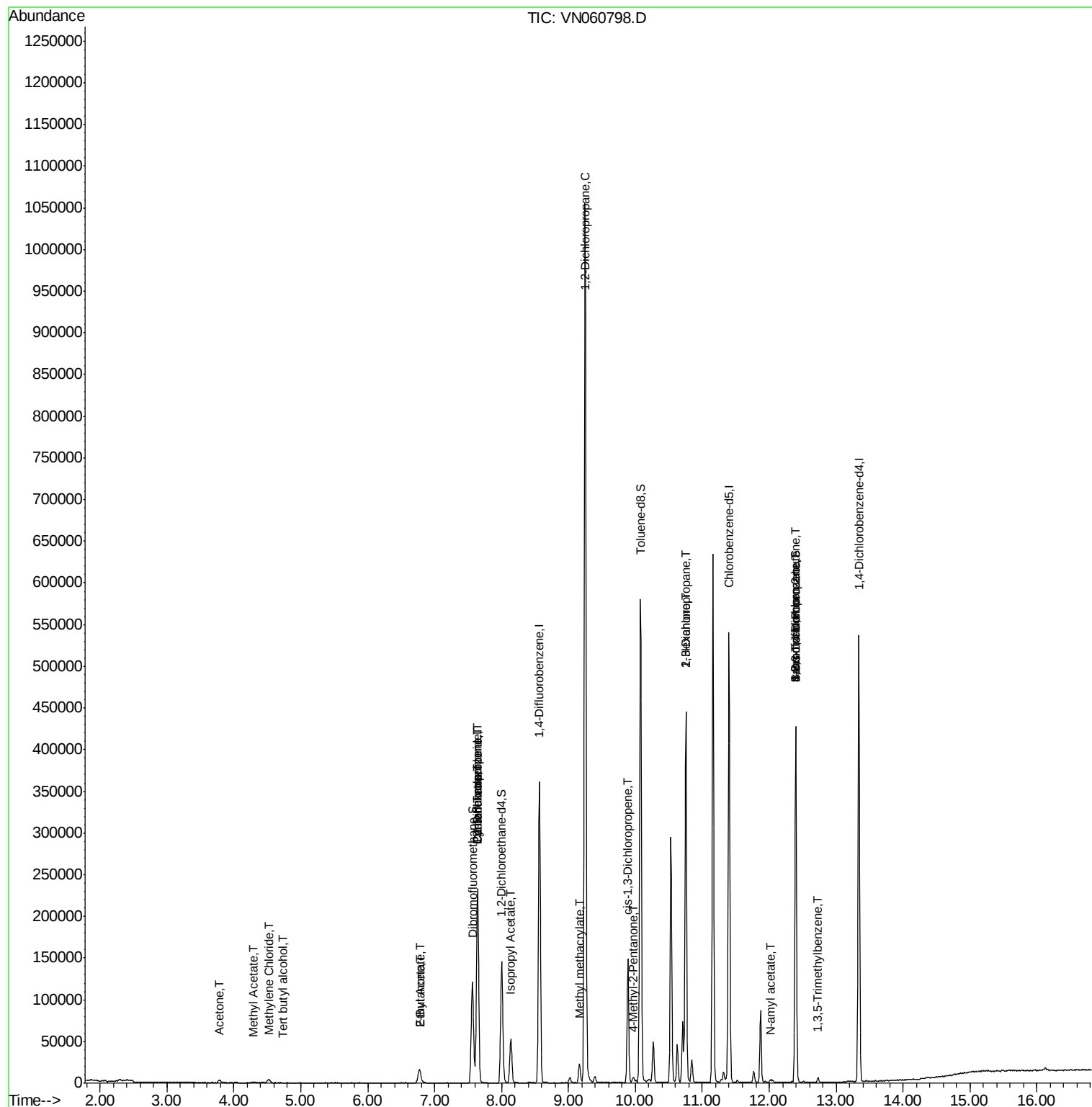
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	95	0.248	ug/l #	72
16) Acetone	3.79	43	6196	6.718	ug/l	95
18) Methyl Acetate	4.29	43	1991	0.767	ug/l #	69
20) Methylene Chloride	4.53	84	3230	1.424	ug/l #	90
25) 2-Butanone	6.79	43	2077	1.392	ug/l #	50
31) Cyclohexane	7.64	56	4023	0.959	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14889	4.819	ug/l #	50
37) Ethyl Acetate	6.79	43	2077	0.622	ug/l #	70
38) Carbon Tetrachloride	7.64	117	18507	6.684	ug/l #	16
43) Isopropyl Acetate	8.14	43	63988	11.623	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	1270	0.516	ug/l #	43
48) Methyl methacrylate	9.16	41	3456	1.410	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5272	1.683	ug/l #	87
54) cis-1,3-Dichloropropene	9.89	75	26249	6.737	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	4218	1.122	ug/l #	42
59) 2-Hexanone	10.75	43	64554	28.604	ug/l #	52
71) Bromoform	12.40	173	489	1.944	ug/l #	1
74) N-amyl acetate	12.02	43	3289	0.679	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	75356	24.999	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3273	0.368	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	75356	64.205	ug/l #	13

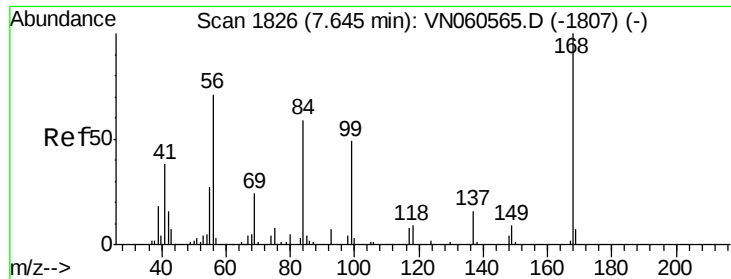
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 18 08:49:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060798.D

Acq: 31 Mar 2020 19:52

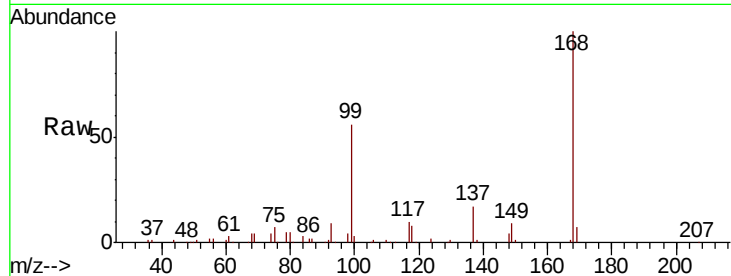
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 189659

Ion Ratio Lower Upper

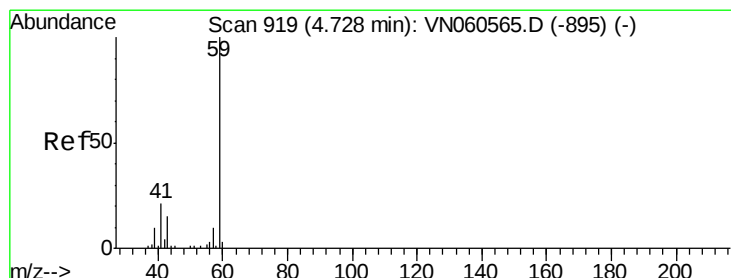
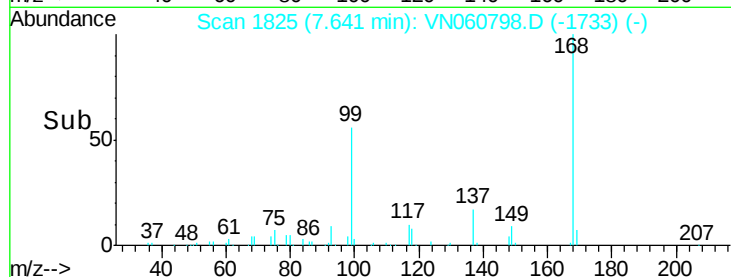
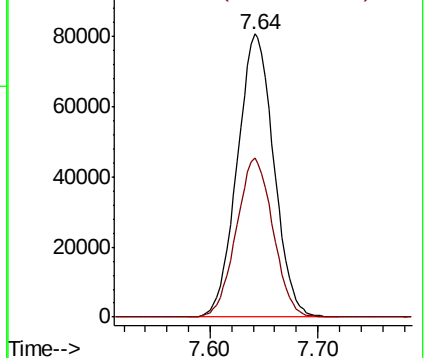
168 100

99 56.3 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.248 ug/l

RT: 4.73 min Scan# 920

Delta R.T. 0.00 min

Lab File: VN060798.D

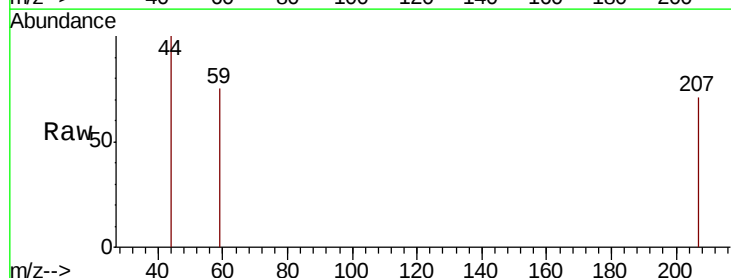
Acq: 31 Mar 2020 19:52

Tgt Ion: 59 Resp: 95

Ion Ratio Lower Upper

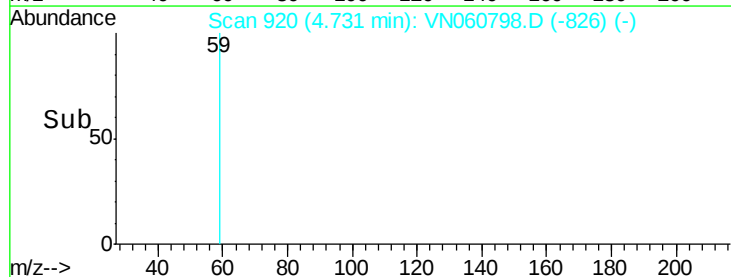
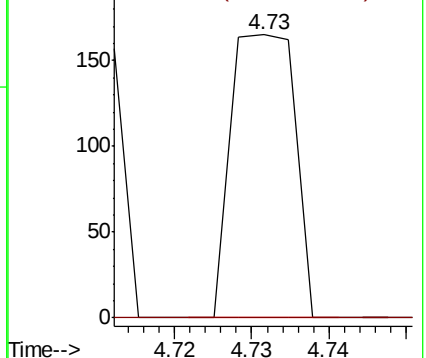
59 100

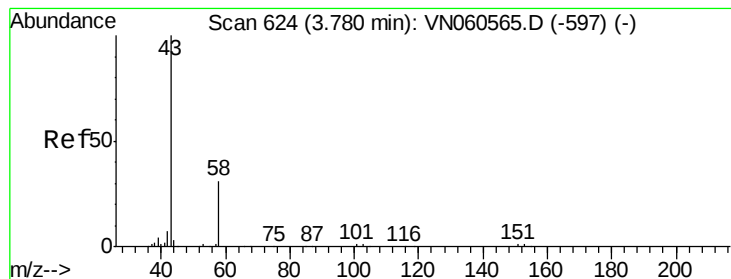
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 6.718 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060798.D

Acq: 31 Mar 2020 19:52

Instrument :

MSVOA_N

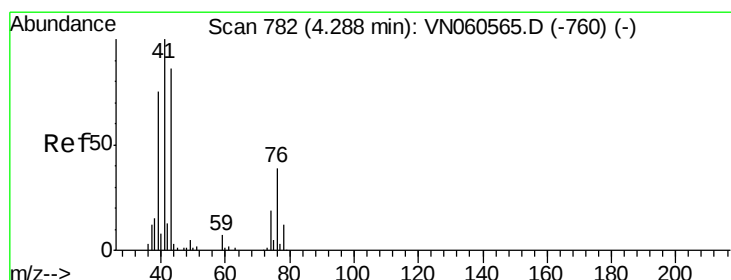
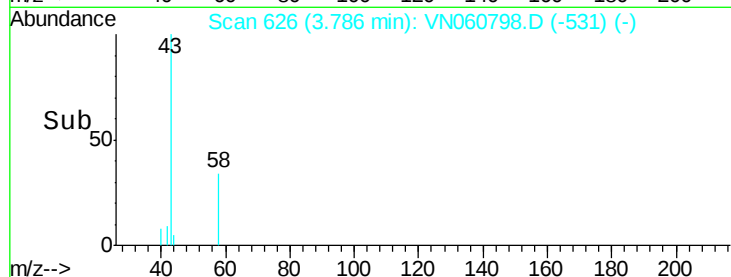
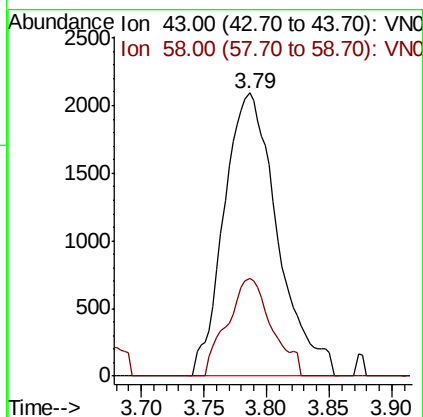
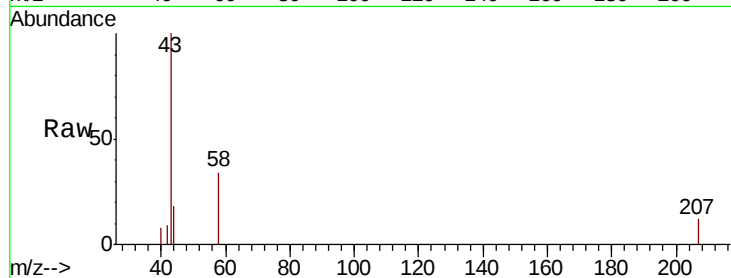
ClientSampleId :

Tot Ion: 43 Resp: 6196

Ion Ratio Lower Upper

43 100

58 34.4 25.1 37.7



#18

Methyl Acetate

Concen: 0.767 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060798.D

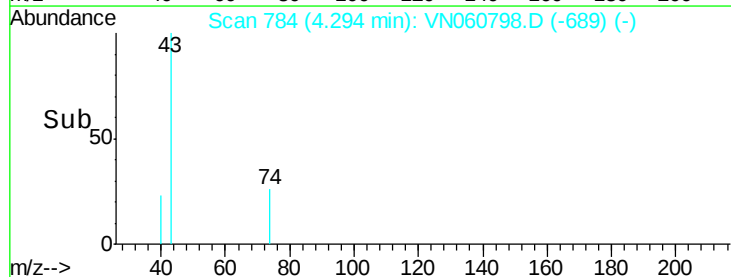
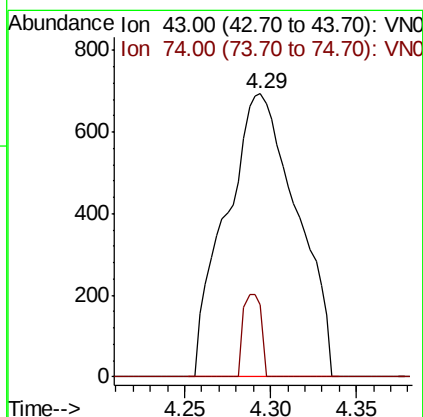
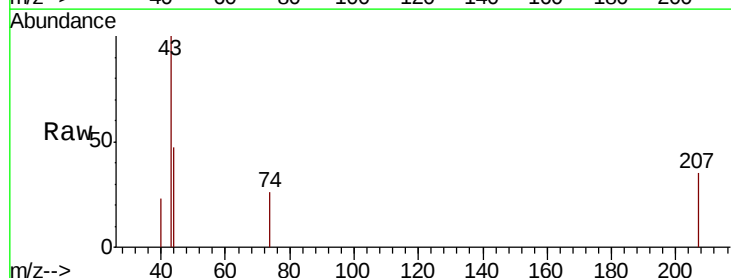
Acq: 31 Mar 2020 19:52

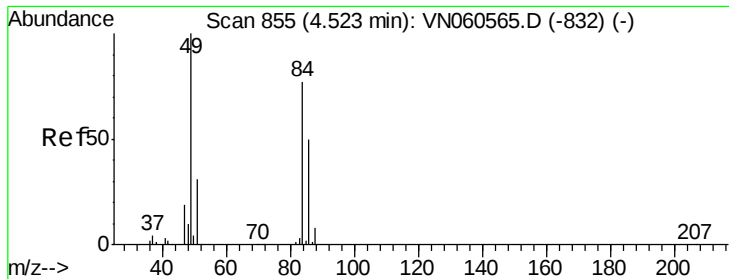
Tgt Ion: 43 Resp: 1991

Ion Ratio Lower Upper

43 100

74 7.3 17.5 26.3#





#20

Methvlene Chloride

Concen: 1.424 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

Lab File: VN060798.D

Acq: 31 Mar 2020 19:52

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 3230

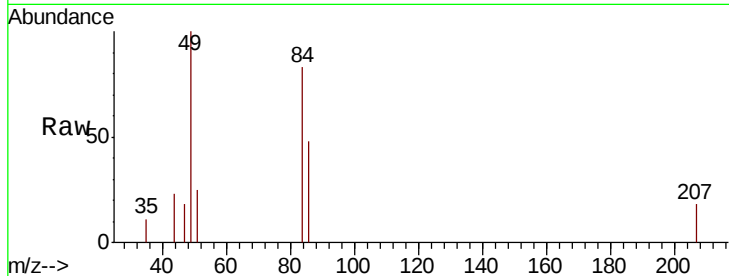
Ion Ratio Lower Upper

84 100

49 119.9 103.3 154.9

51 30.1 31.6 47.4#

86 57.4 52.0 78.0

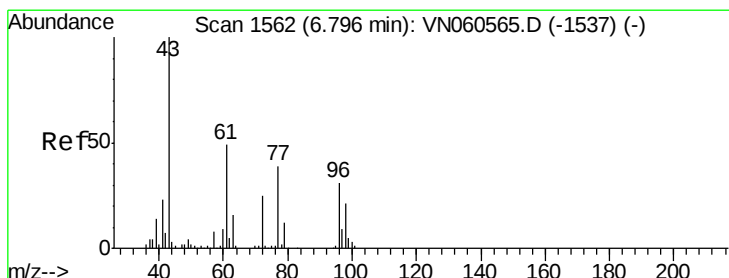
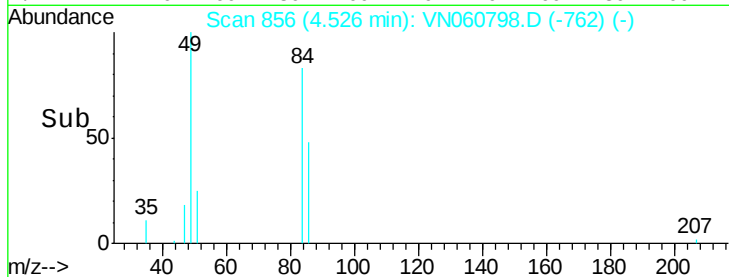
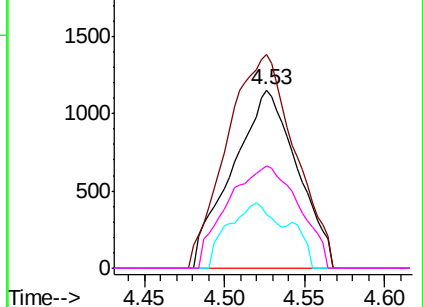


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#25

2-Butanone

Concen: 1.392 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VN060798.D

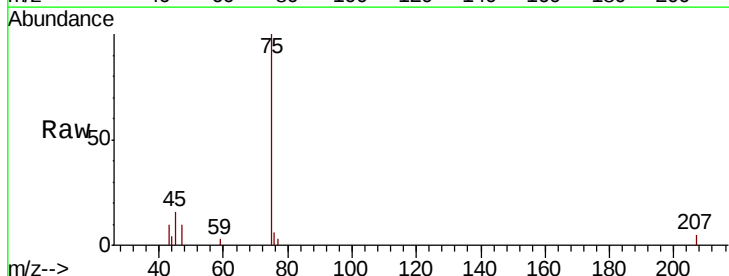
Acq: 31 Mar 2020 19:52

Tgt Ion: 43 Resp: 2077

Ion Ratio Lower Upper

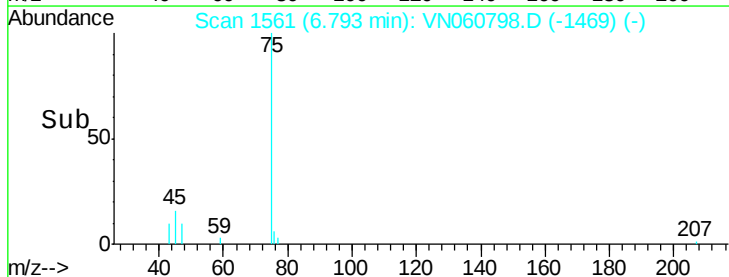
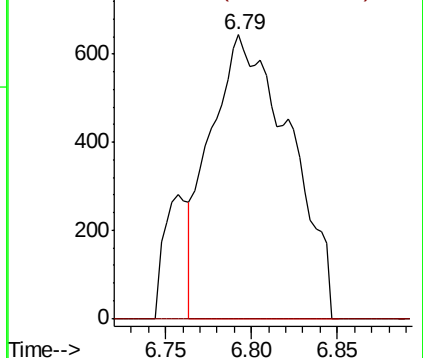
43 100

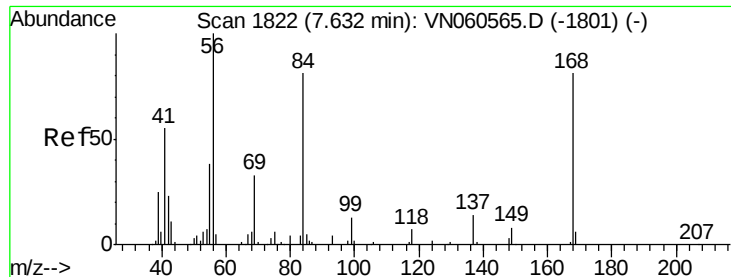
72 0.0 20.4 30.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

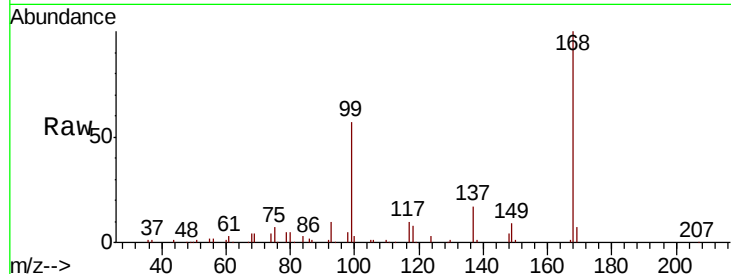




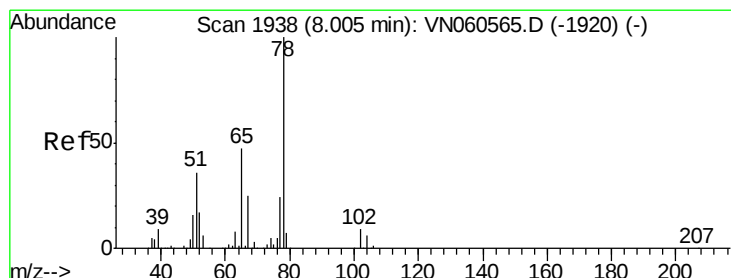
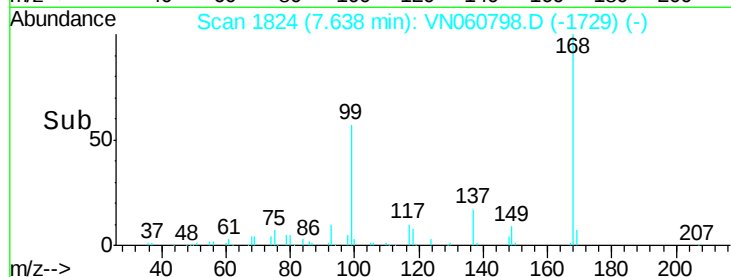
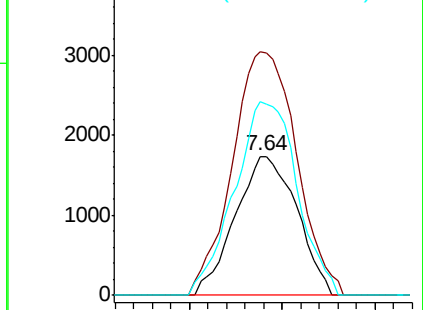
#31
Cyclohexane
Concen: 0.959 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060798.D
Acq: 31 Mar 2020 19:52

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4023
Ion Ratio Lower Upper
56 100
69 174.9 26.6 40.0#
84 138.8 64.3 96.5#

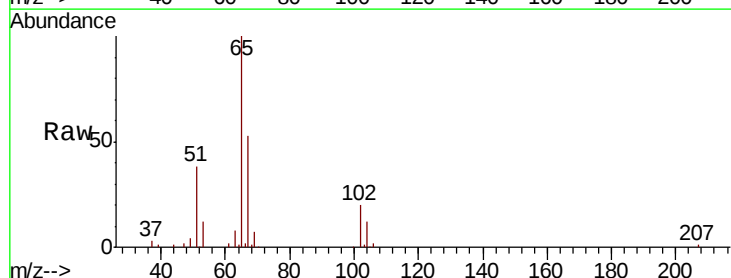


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

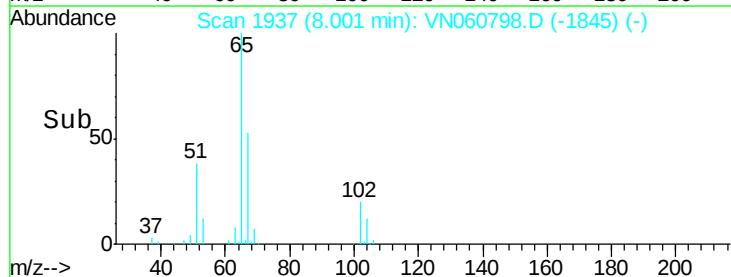
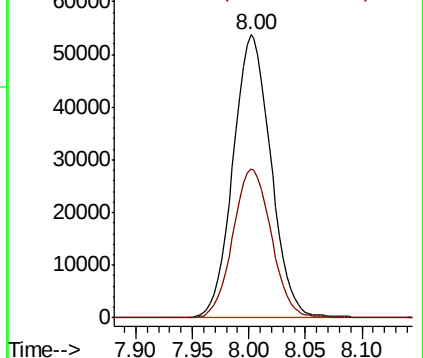


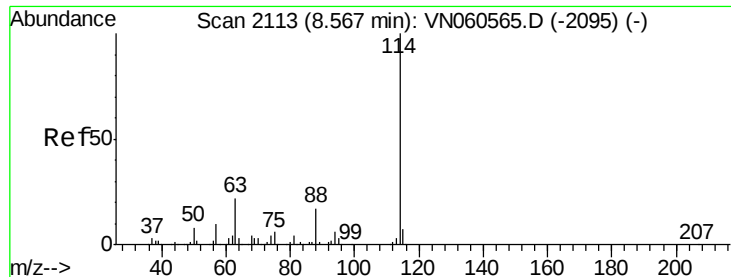
#33
1,2-Dichloroethane-d4
Concen: 47.950 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060798.D
Acq: 31 Mar 2020 19:52

Tgt Ion: 65 Resp: 124842
Ion Ratio Lower Upper
65 100
67 53.7 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

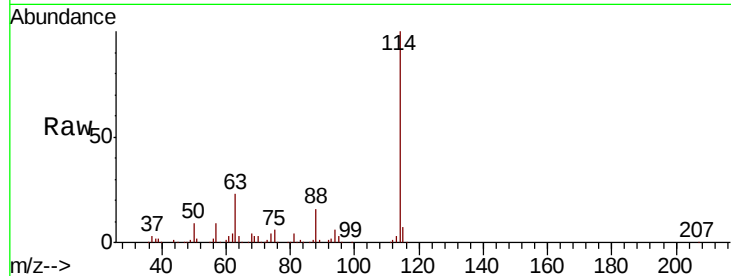




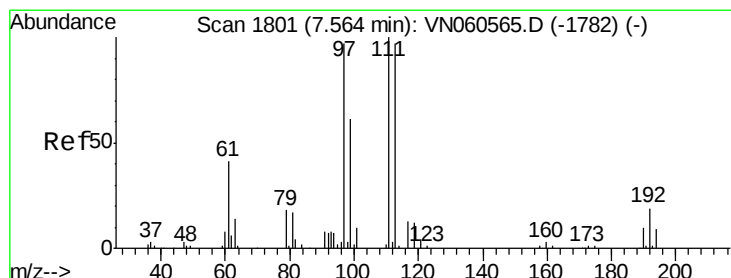
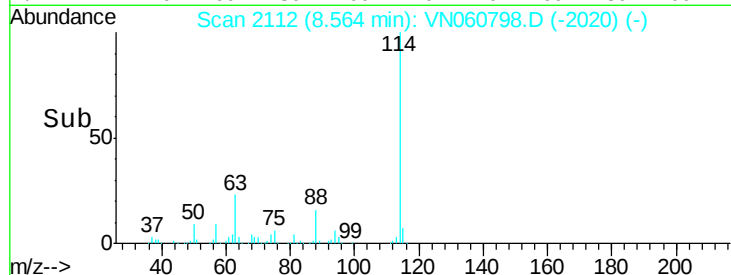
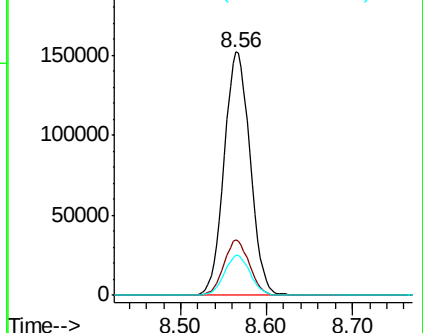
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060798.D
 Acq: 31 Mar 2020 19:52

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	43.8
88	16.4	0.0	33.0

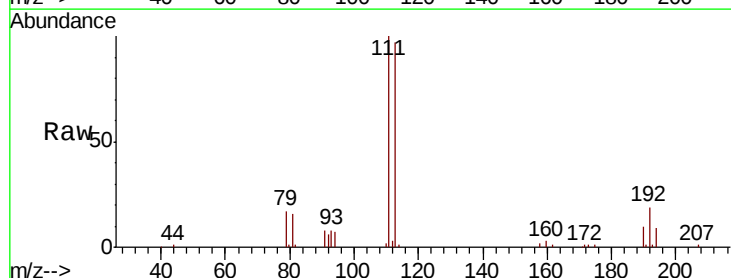


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

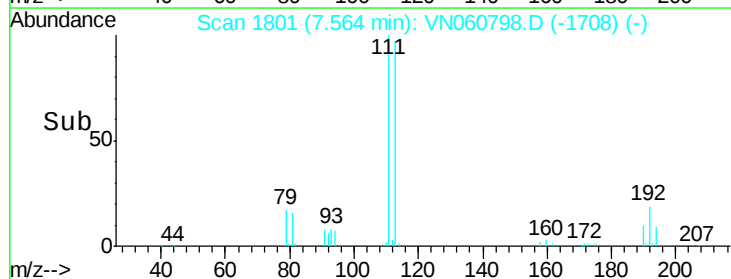
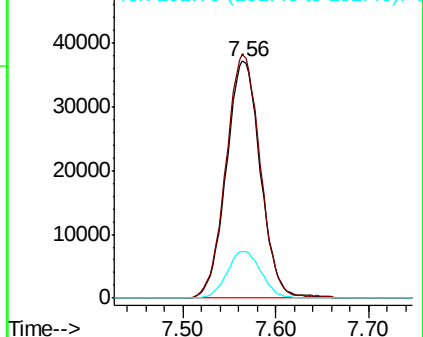


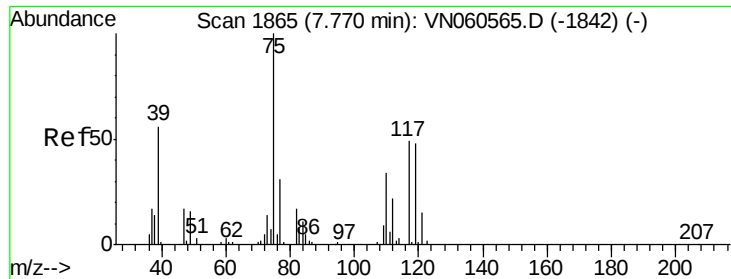
#35
 Dibromofluoromethane
 Concen: 49.245 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060798.D
 Acq: 31 Mar 2020 19:52

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.9	124.3
192	19.6	15.8	23.8



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

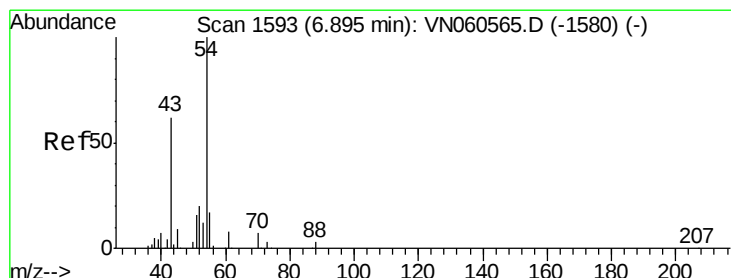
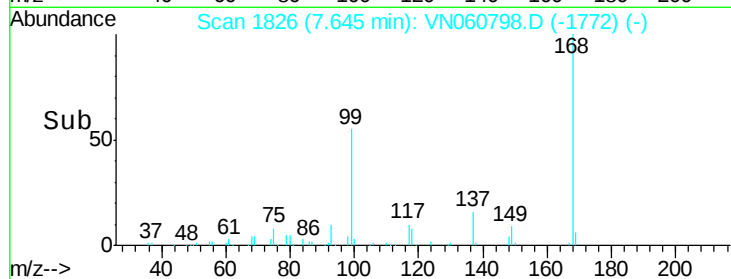
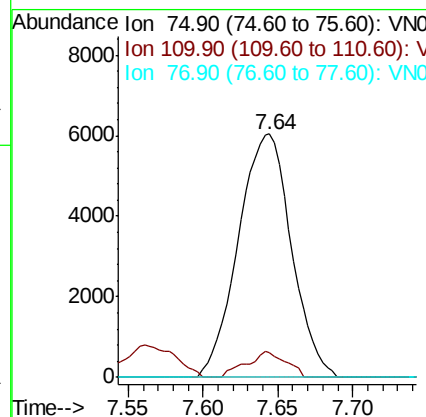
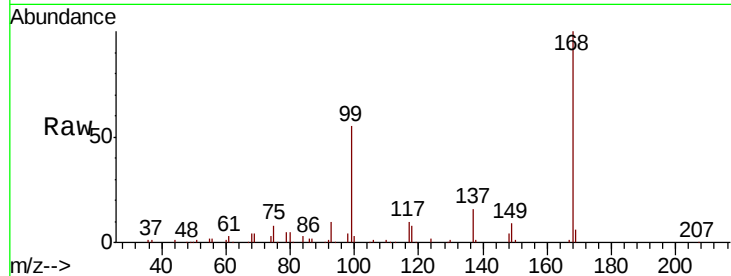




#36
 1,1-Dichloropropene
 Concen: 4.819 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060798.D
 Acq: 31 Mar 2020 19:52

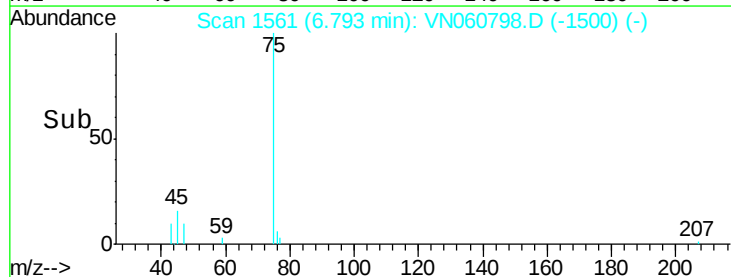
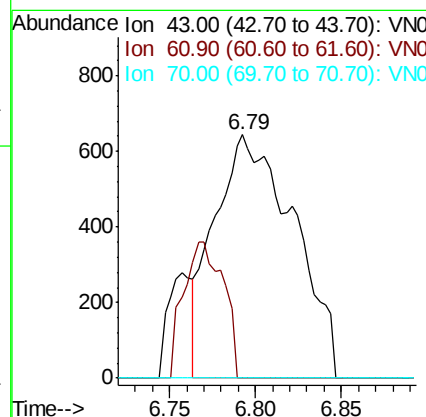
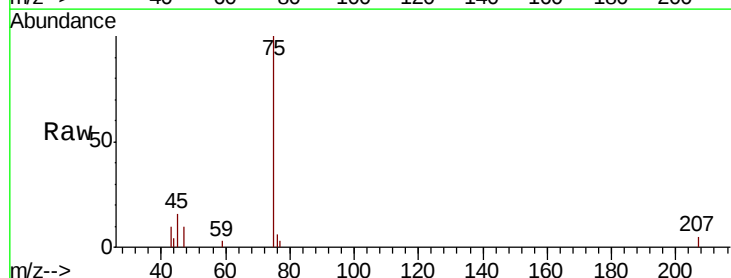
Instrument :
 MSVOA_N
 ClientSampled :

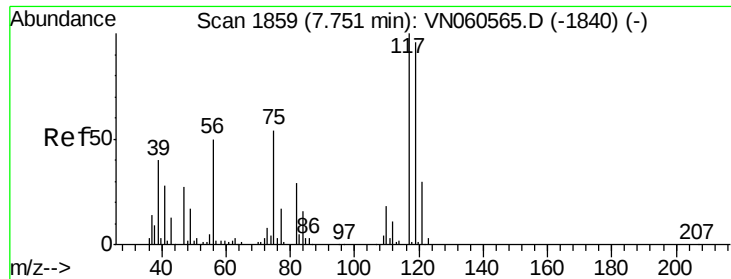
Tot Ion	75	Resp	14889
Ion Ratio	Lower	Upper	
75	100		
110	7.9	16.9	50.6#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 0.622 ug/l
 RT: 6.79 min Scan# 1561
 Delta R.T. -0.10 min
 Lab File: VN060798.D
 Acq: 31 Mar 2020 19:52

Tgt Ion	43	Resp	2077
Ion Ratio	Lower	Upper	
43	100		
61	0.0	10.6	15.8#
70	0.0	7.9	11.9#





#38

Carbon Tetrachloride

Concen: 6.684 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060798.D

Acq: 31 Mar 2020 19:52

Instrument :

MSVOA_N

ClientSampled :

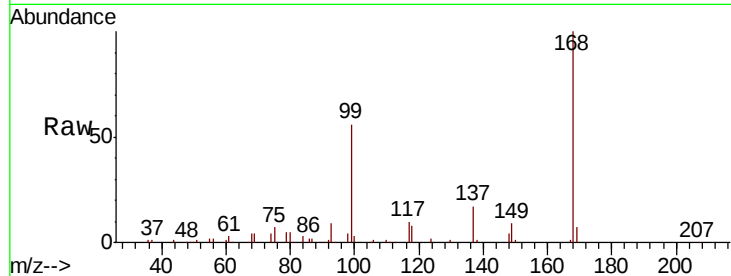
Tot Ion:117 Resp: 18507

Ion Ratio Lower Upper

117 100

119 4.3 76.2 114.2#

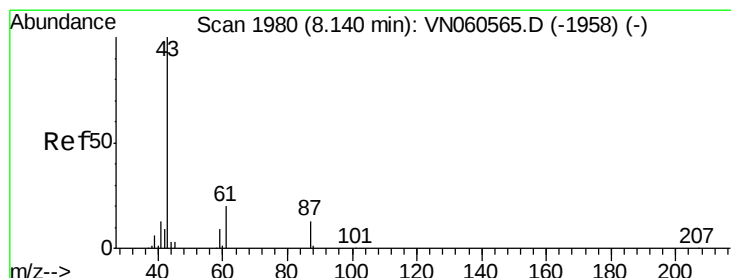
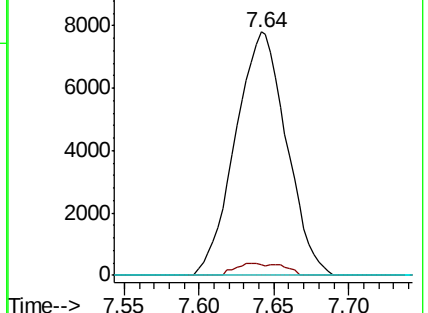
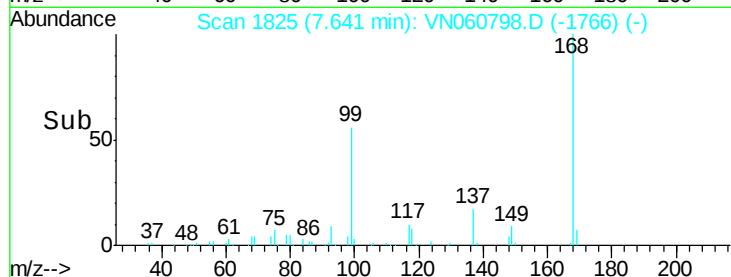
121 0.0 23.7 35.5#



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: 11.623 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060798.D

Acq: 31 Mar 2020 19:52

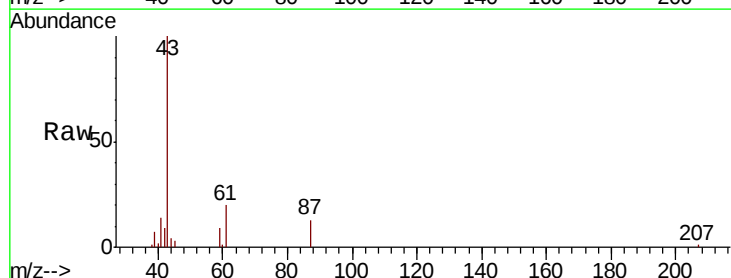
Tgt Ion: 43 Resp: 63988

Ion Ratio Lower Upper

43 100

61 19.8 20.7 31.1#

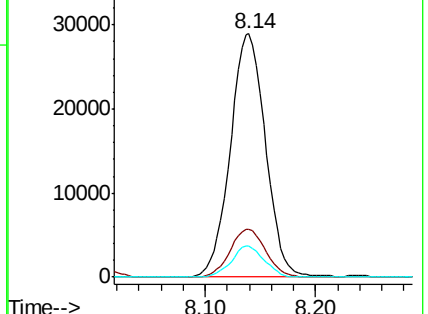
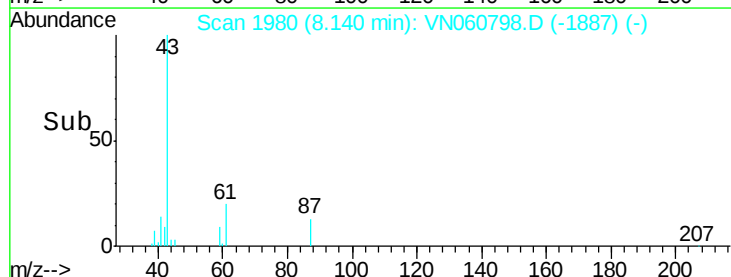
87 11.9 9.8 14.8

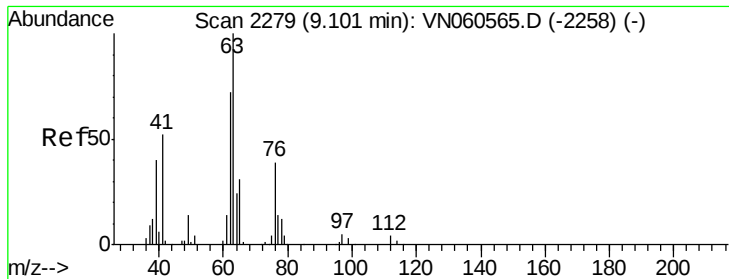


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.516 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060798.D

Acq: 31 Mar 2020 19:52

Instrument :

MSVOA_N

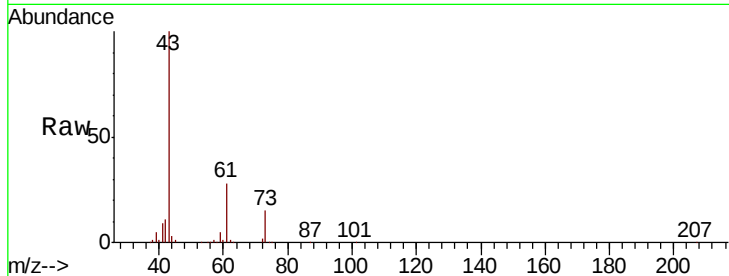
ClientSampleId :

Tot Ion: 63 Resp: 1270

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

800

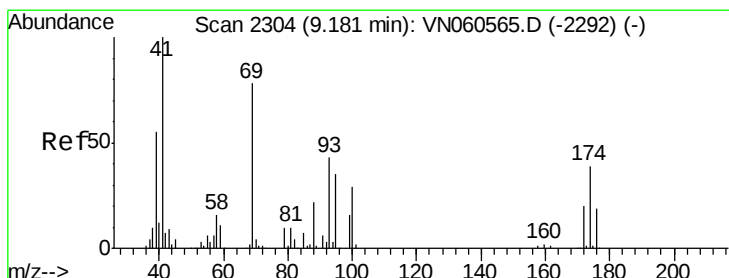
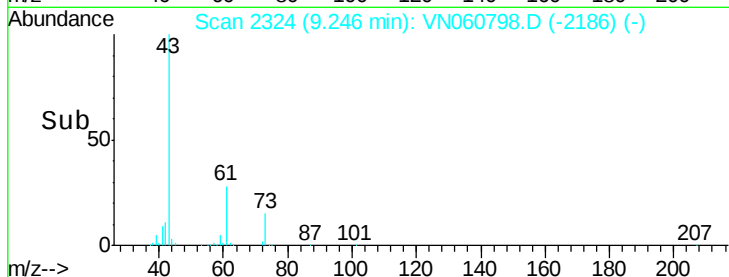
600

400

200

0

Time--> 9.20 9.22 9.24 9.26 9.28



#48

Methyl methacrylate

Concen: 1.410 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060798.D

Acq: 31 Mar 2020 19:52

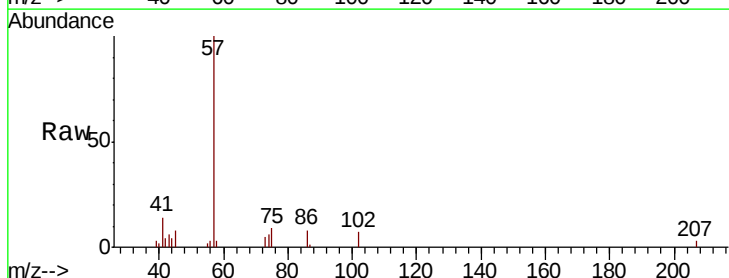
Tgt Ion: 41 Resp: 3456

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

39 0.0 44.0 66.0#



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

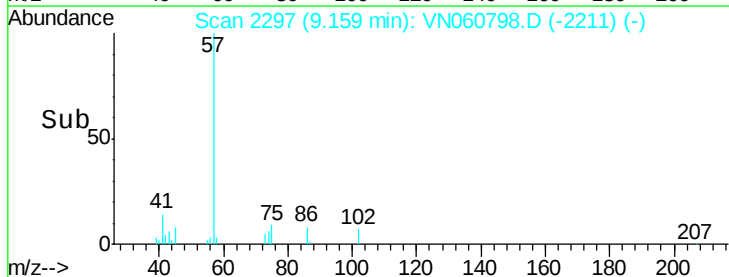
30000

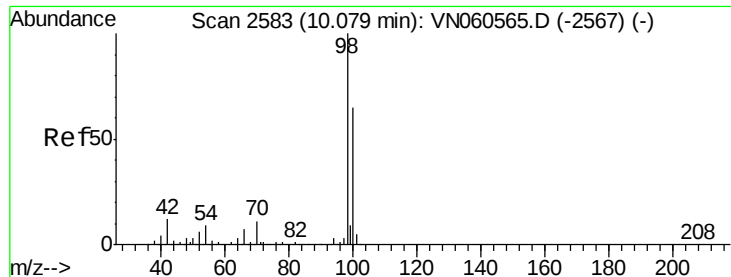
20000

10000

0

Time--> 9.10 9.15 9.20





#50

Toluene-d8

Concen: 50.194 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060798.D

Acq: 31 Mar 2020 19:52

Instrument :

MSVOA_N

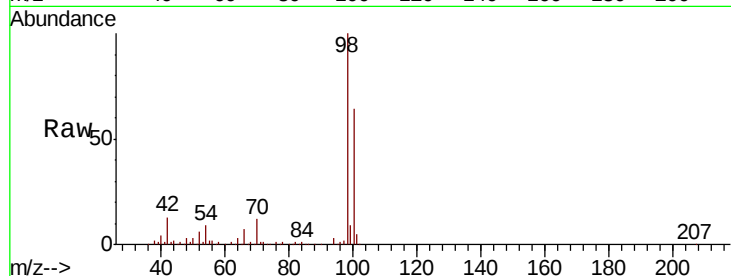
ClientSampleId :

Tot Ion: 98 Resp: 395550

Ion Ratio Lower Upper

98 100

100 64.5 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN060565.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN060565.D (-2567) (-)

10.08

250000

200000

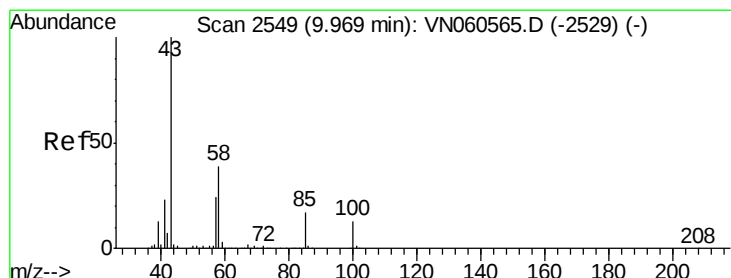
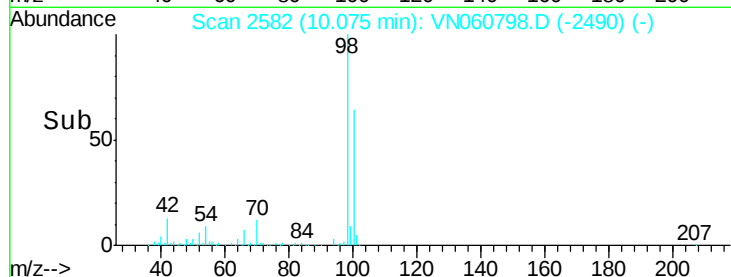
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.683 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060798.D

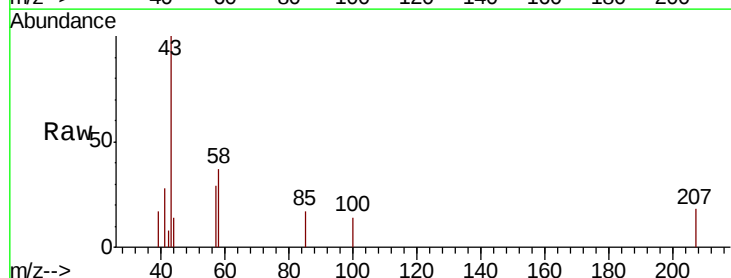
Acq: 31 Mar 2020 19:52

Tgt Ion: 43 Resp: 5272

Ion Ratio Lower Upper

43 100

58 30.5 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-2529) (-)

Ion 58.00 (57.70 to 58.70): VN060565.D (-2529) (-)

9.97

12000

10000

8000

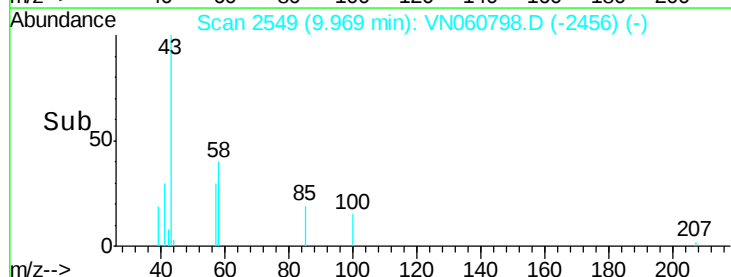
6000

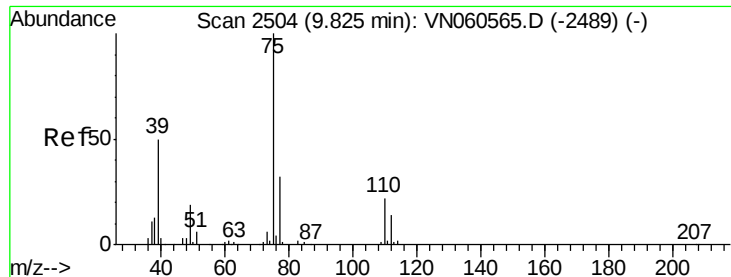
4000

2000

0

Time-->



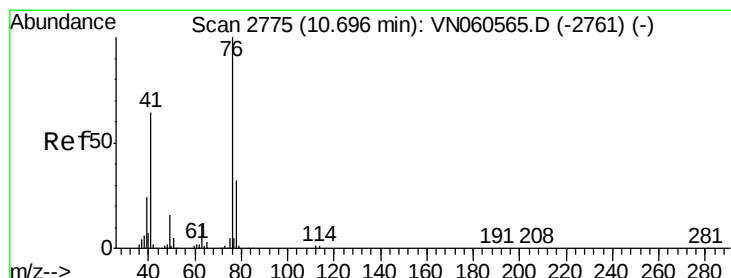
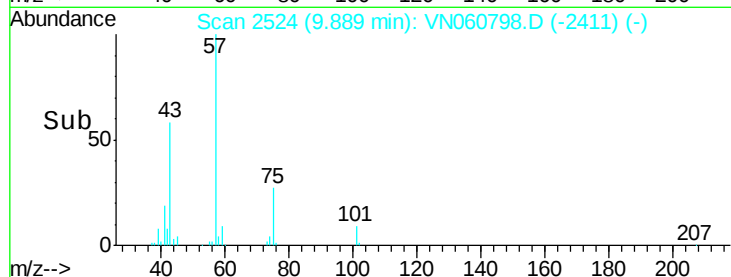
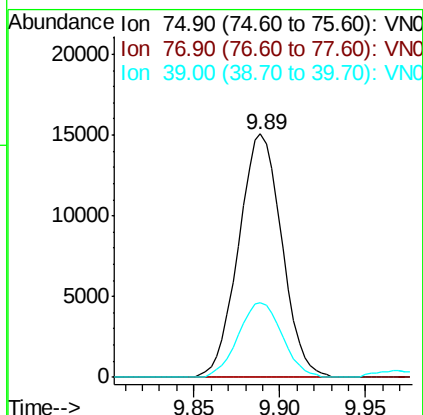
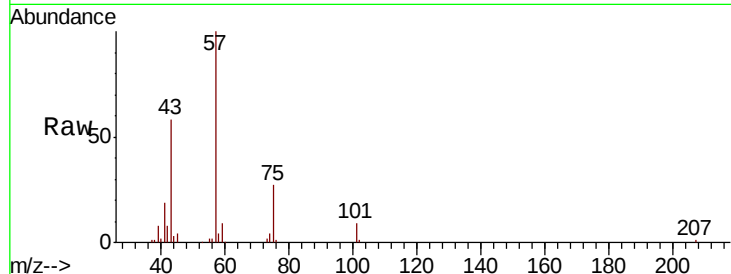


#54

cis-1,3-Dichloropropene
 Concen: 6.737 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060798.D
 Acq: 31 Mar 2020 19:52

Instrument :
 MSVOA_N
 ClientSampleId :

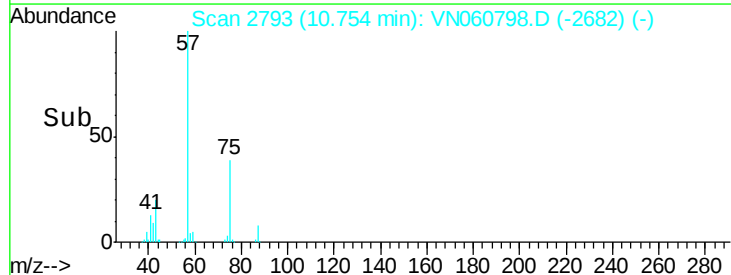
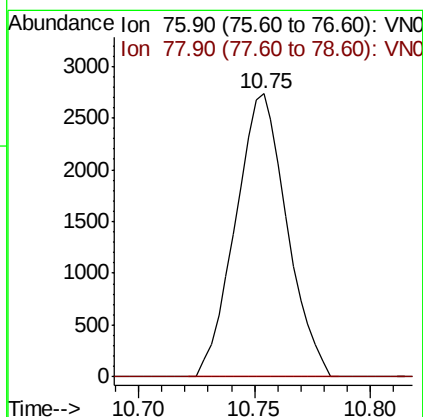
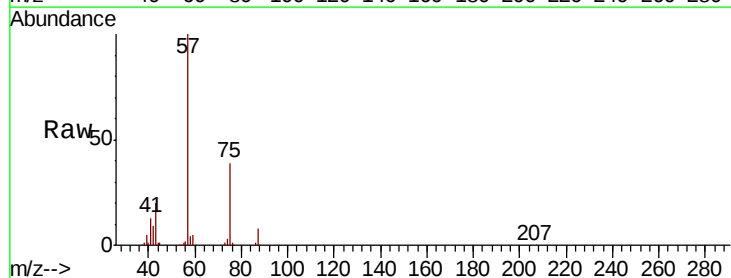
Tot Ion: 75 Resp: 26249
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 30.8 40.2 60.4#

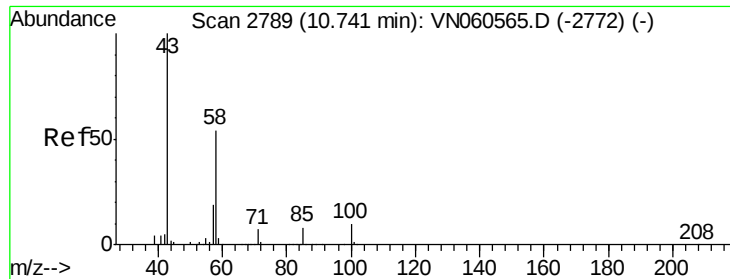


#57

1,3-Dichloropropane
 Concen: 1.122 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060798.D
 Acq: 31 Mar 2020 19:52

Tgt Ion: 76 Resp: 4218
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#

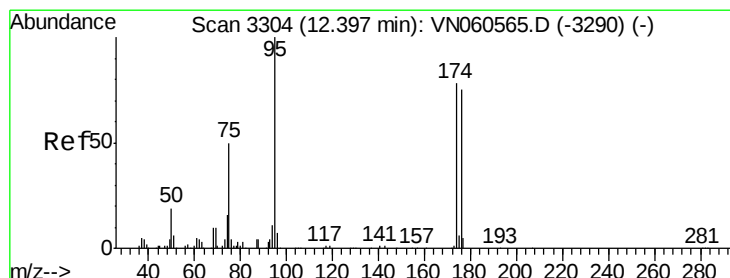
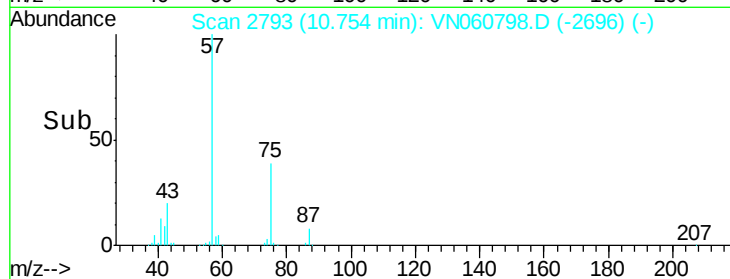
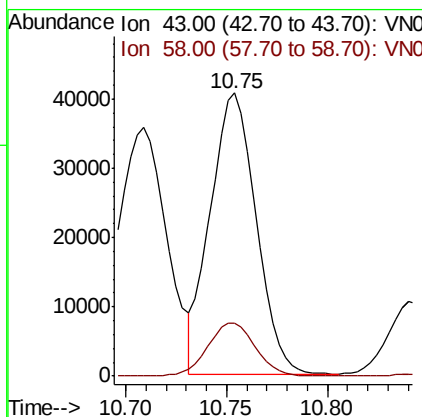
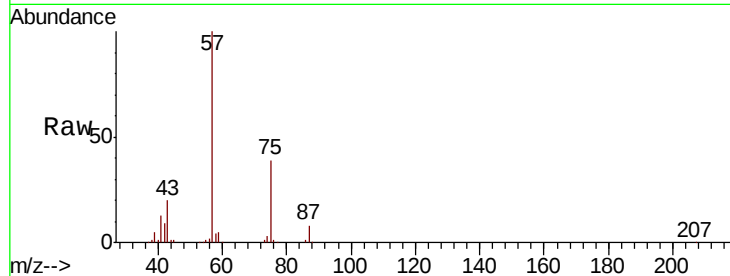




#59
2-Hexanone
Concen: 28.604 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060798.D
Acq: 31 Mar 2020 19:52

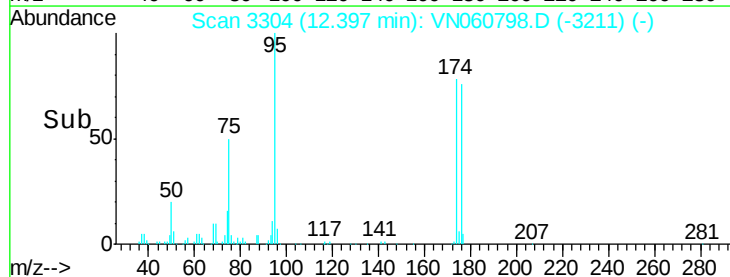
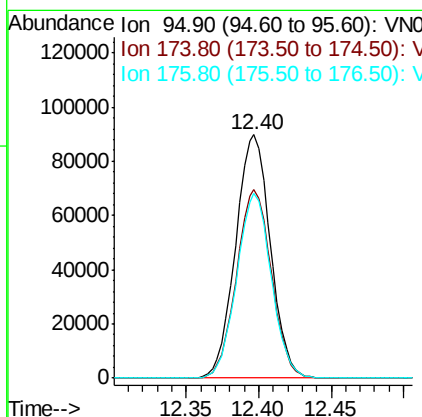
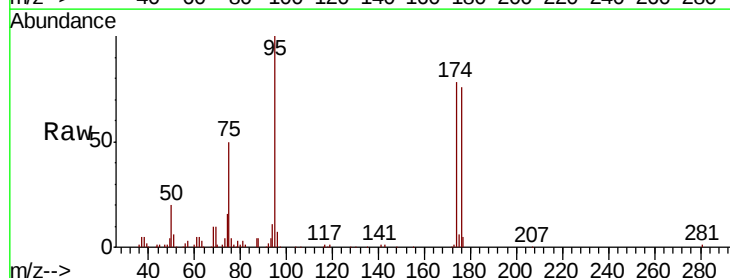
Instrument :
MSVOA_N
ClientSampled :

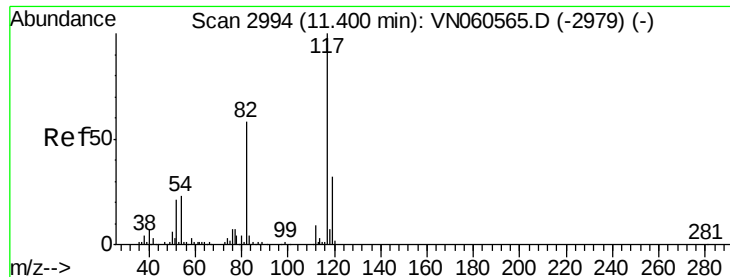
Tot Ion: 43 Resp: 64554
Ion Ratio Lower Upper
43 100
58 19.5 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.854 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060798.D
Acq: 31 Mar 2020 19:52

Tgt Ion: 95 Resp: 149758
Ion Ratio Lower Upper
95 100
174 77.7 0.0 157.6
176 75.3 0.0 150.6

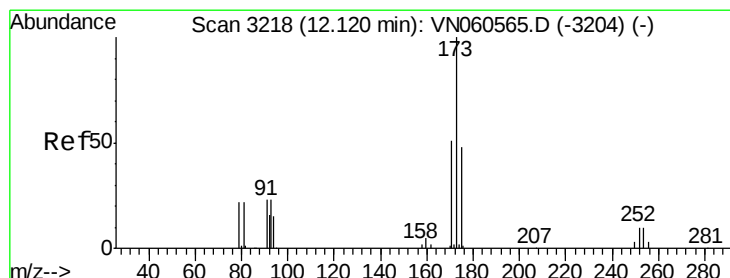
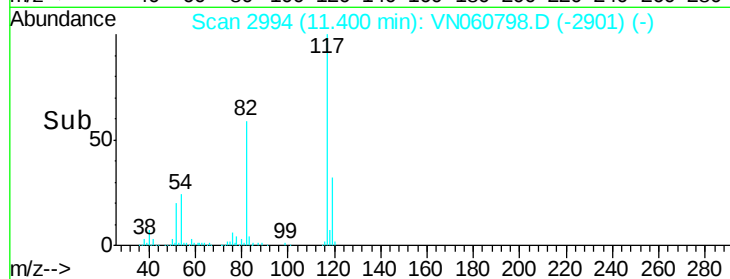
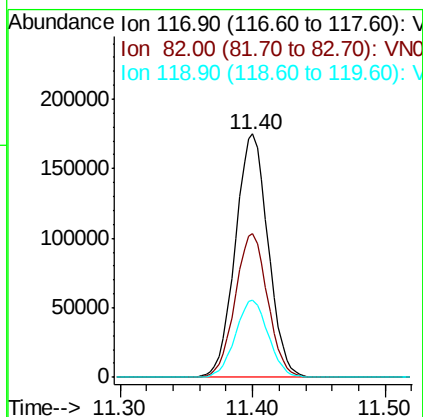
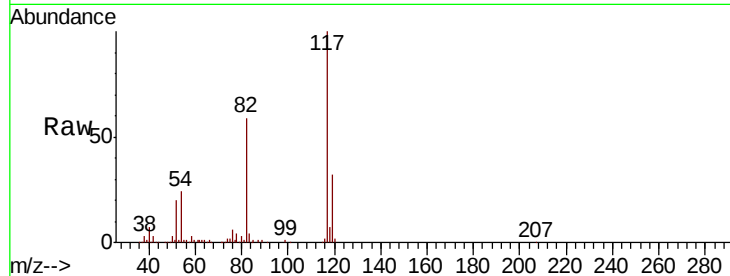




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060798.D
Acq: 31 Mar 2020 19:52

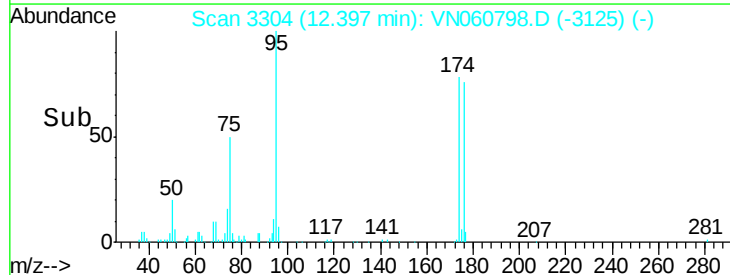
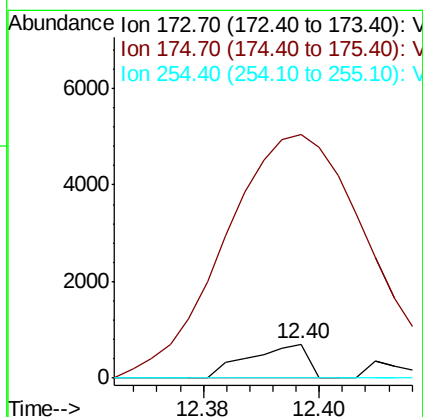
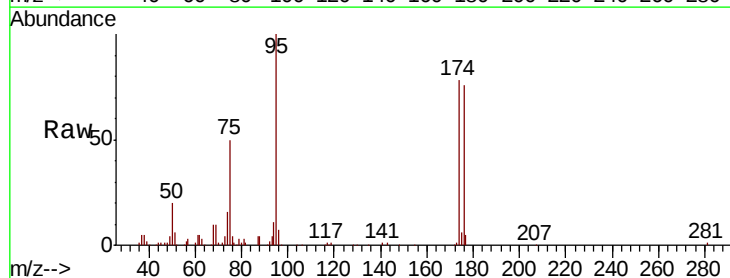
Instrument :
MSVOA_N
ClientSampled :

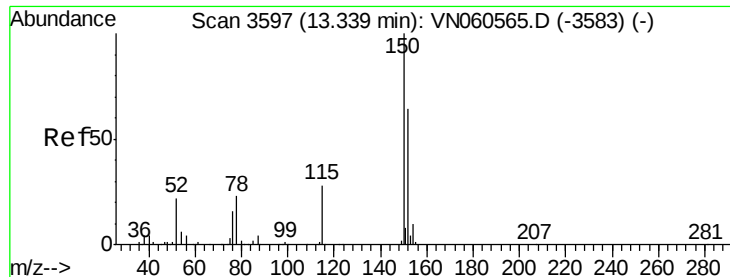
Tot Ion:117 Resp: 300179
Ion Ratio Lower Upper
117 100
82 59.0 46.7 70.1
119 31.6 25.5 38.3



#71
Bromoform
Concen: 1.944 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060798.D
Acq: 31 Mar 2020 19:52

Tgt Ion:173 Resp: 489
Ion Ratio Lower Upper
173 100
175 1507.8 24.1 72.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060798.D

Acq: 31 Mar 2020 19:52

Instrument :

MSVOA_N

ClientSampleId :

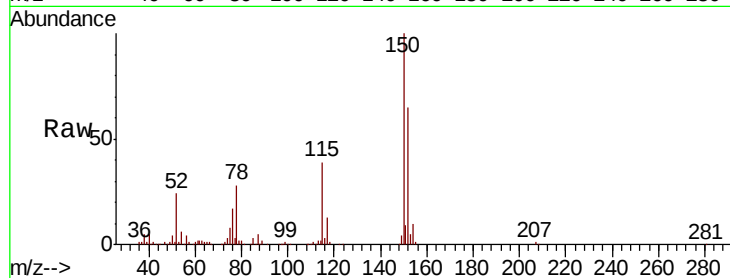
Tot Ion:152 Resp: 139696

Ion Ratio Lower Upper

152 100

115 59.7 30.2 90.6

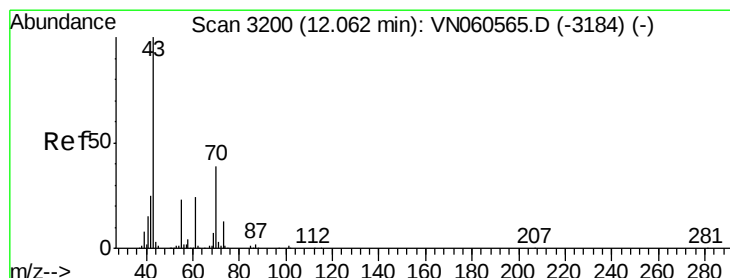
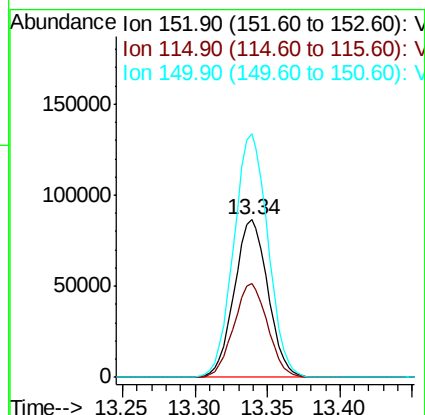
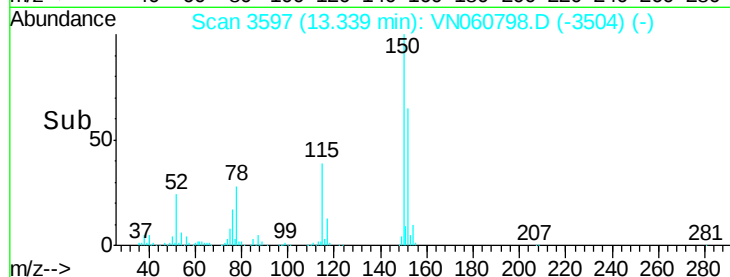
150 157.0 0.0 350.2



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: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060798.D

Acq: 31 Mar 2020 19:52

Tgt Ion: 43 Resp: 3289

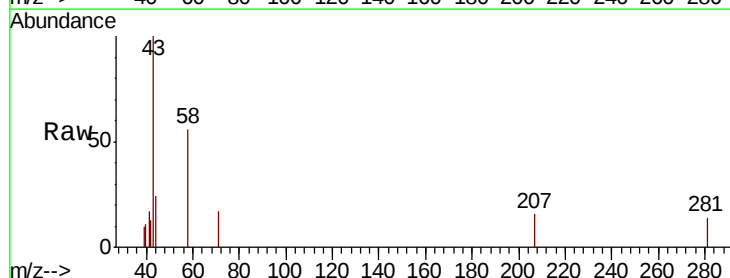
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 1.8 18.6 27.8#

61 0.0 18.9 28.3#

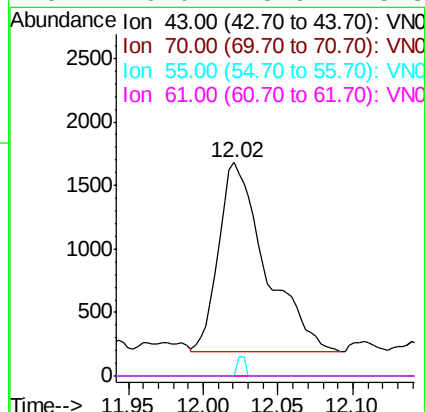
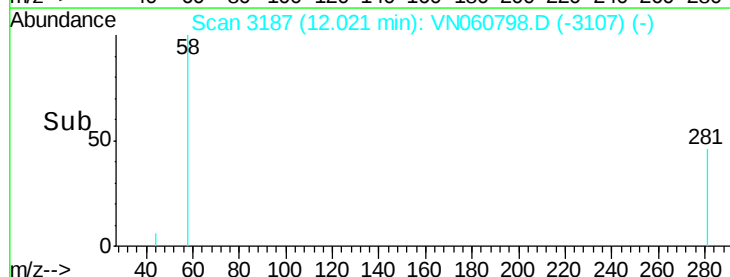


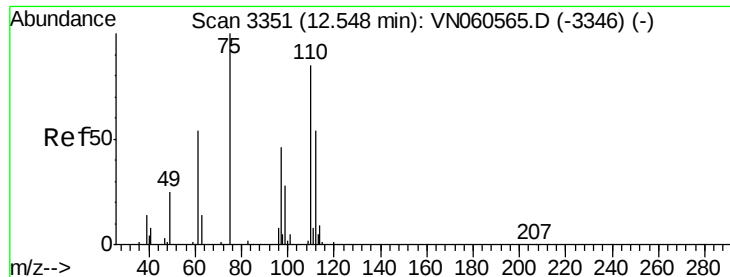
Abundance Ion 43.00 (42.70 to 43.70): V

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: 24.999 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060798.D

Acq: 31 Mar 2020 19:52

Instrument :

MSVOA_N

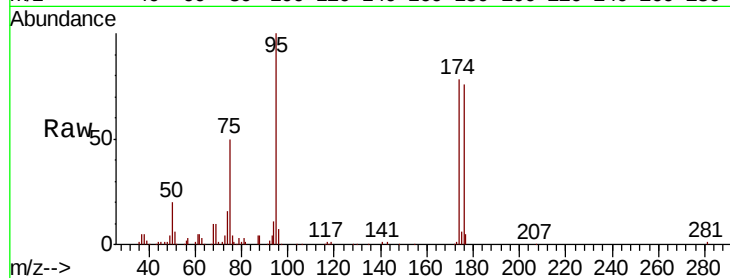
ClientSampled :

Tot Ion: 75 Resp: 75356

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060798.D (-3304) (-)

Ion 77.00 (76.70 to 77.70): VN060798.D (-3304) (-)

12.40

50000

40000

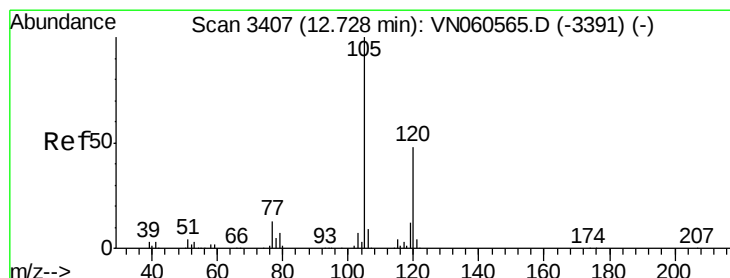
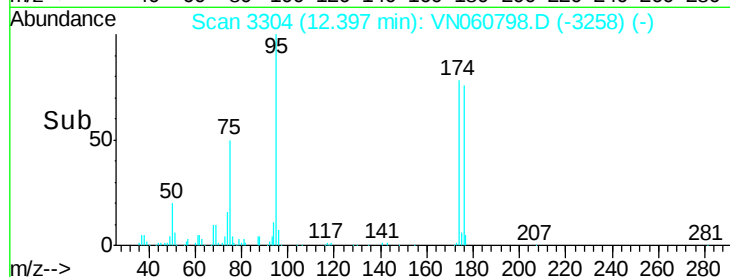
30000

20000

10000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.368 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060798.D

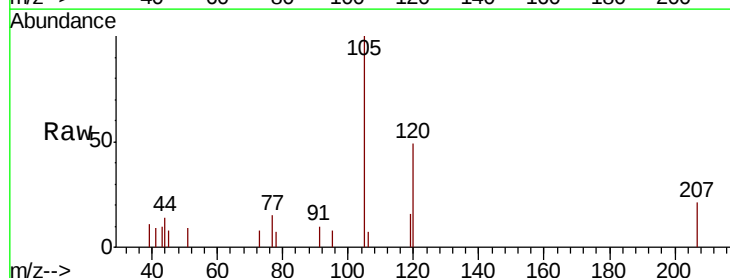
Acq: 31 Mar 2020 19:52

Tgt Ion: 105 Resp: 3273

Ion Ratio Lower Upper

105 100

120 50.2 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): VN060798.D (-3408) (-)

Ion 120.00 (119.70 to 120.70): VN060798.D (-3408) (-)

12.73

2500

2000

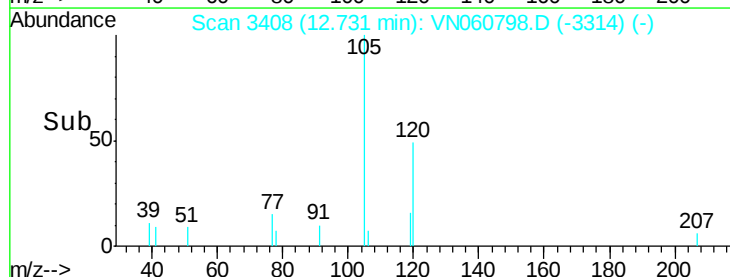
1500

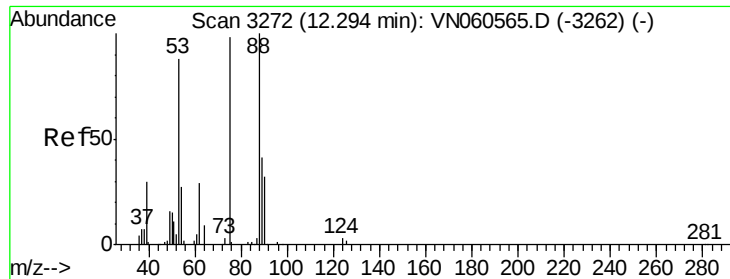
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 64.205 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060798.D

Acq: 31 Mar 2020 19:52

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 75356

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

