

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071719\
 Data File : VN056790.D
 Acq On : 17 Jul 2019 12:38
 Operator : JC/SP
 Sample : K3847-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 18 01:05:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	255235	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	456611	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	474636	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	167723	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	149588	52.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.96%	
35) Dibromofluoromethane	7.59	113	134843	47.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.90%	
50) Toluene-d8	10.09	98	569067	51.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.70%	
62) 4-Bromofluorobenzene	12.40	95	199854	54.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.00%	

Target Compounds

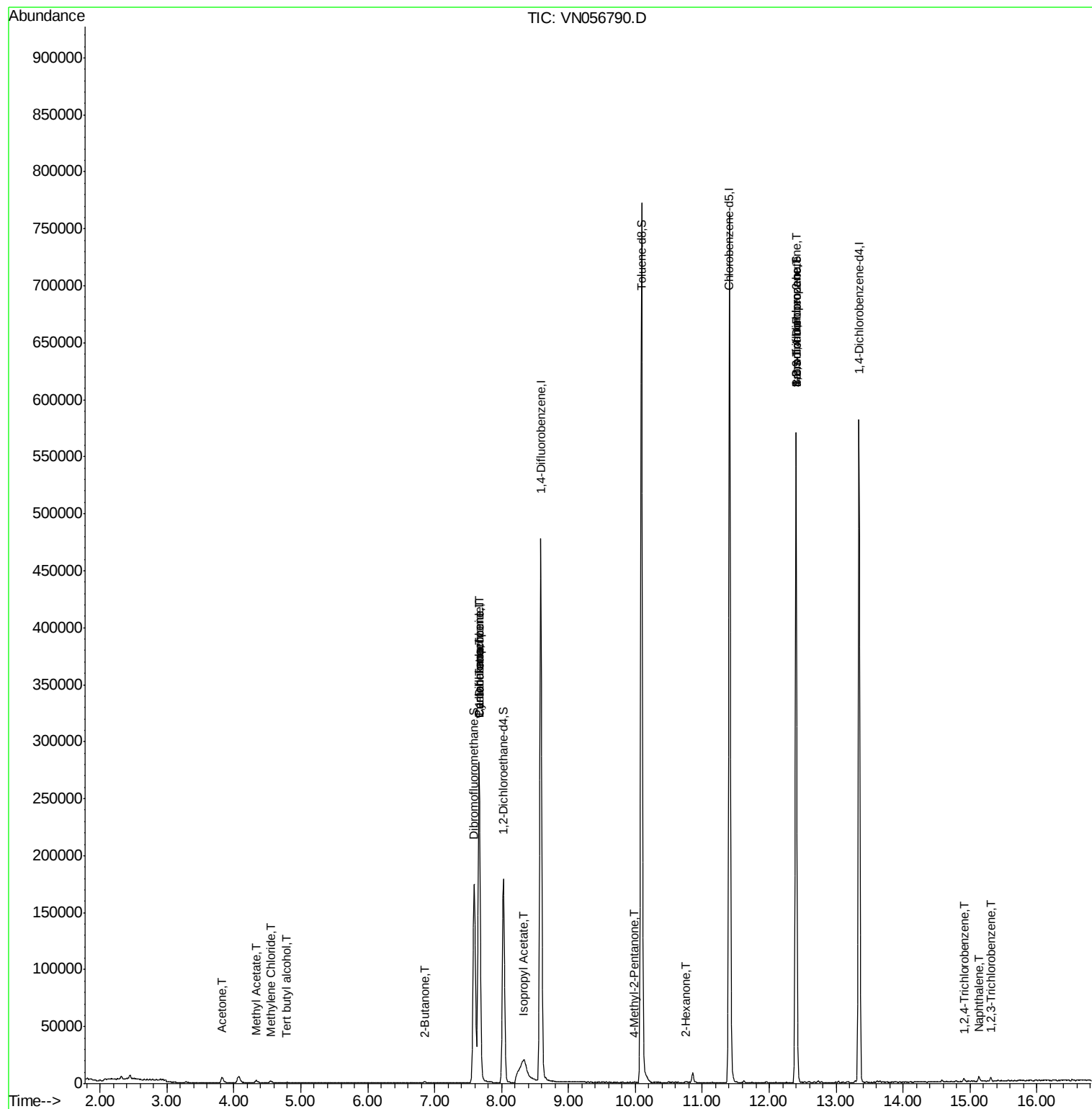
					Qvalue
11) Tert butyl alcohol	4.78	59	831	1.768 ug/l #	73
16) Acetone	3.82	43	8631	6.634 ug/l	98
18) Methyl Acetate	4.34	43	4535	0.590 ug/l #	80
20) Methylene Chloride	4.55	84	662	0.233 ug/l #	65
25) 2-Butanone	6.85	43	1043	0.548 ug/l	91
31) Cyclohexane	7.67	56	4217	0.934 ug/l #	6
36) 1,1-Dichloropropene	7.66	75	16388	3.879 ug/l #	49
38) Carbon Tetrachloride	7.66	117	21875	5.521 ug/l #	16
43) Isopropyl Acetate	8.31	43	30989	4.733 ug/l #	53
51) 4-Methyl-2-Pentanone	9.98	43	1239	0.292 ug/l #	35
59) 2-Hexanone	10.76	43	1665	0.547 ug/l #	54
71) Bromoform	12.39	173	591	0.217 ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	92635	25.252 ug/l #	100
79) 2-Chlorotoluene	12.68	91	457	Below Cal #	39
81) trans-1,4-Dichloro-2-buten	12.40	75	92635	77.988 ug/l #	13
83) tert-Butylbenzene	12.99	119	317	Below Cal #	73
93) 1,2,4-Trichlorobenzene	14.91	180	1129	4.011 ug/l	87
95) Naphthalene	15.13	128	4253	4.956 ug/l #	90
96) 1,2,3-Trichlorobenzene	15.31	180	1768	3.830 ug/l	83

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056790.D

Acq: 17 Jul 2019 12:38

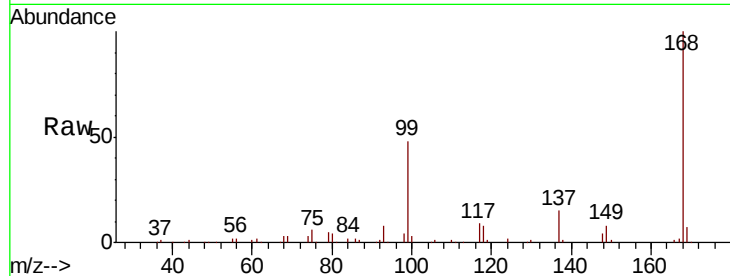
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 255235

Ion Ratio Lower Upper

168 100

99 47.6 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

120000

100000

80000

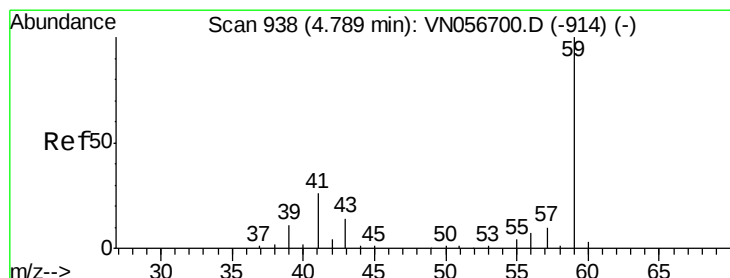
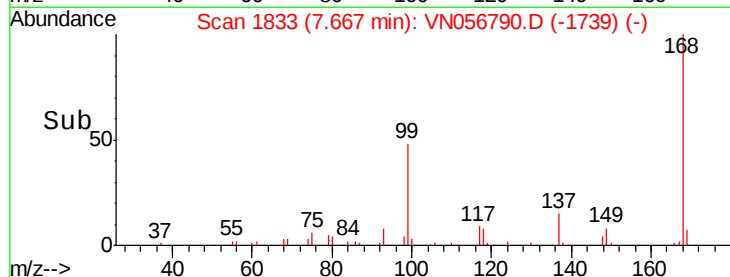
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.768 ug/l

RT: 4.78 min Scan# 936

Delta R.T. -0.01 min

Lab File: VN056790.D

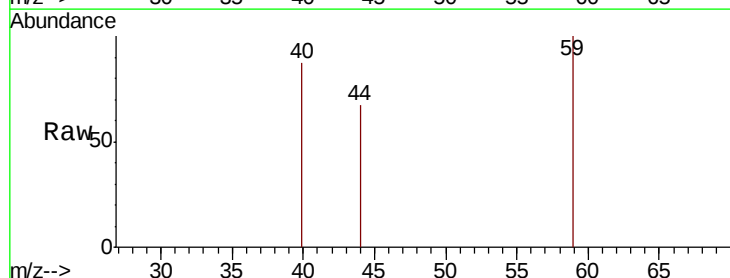
Acq: 17 Jul 2019 12:38

Tgt Ion: 59 Resp: 831

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.78

400

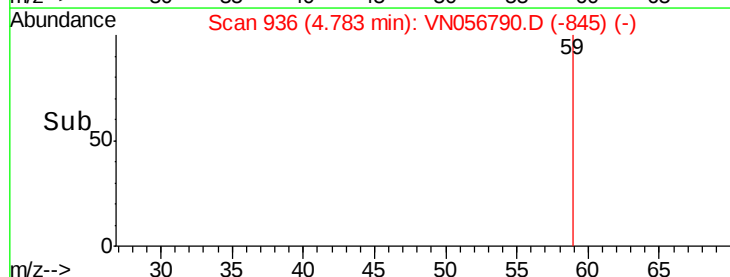
300

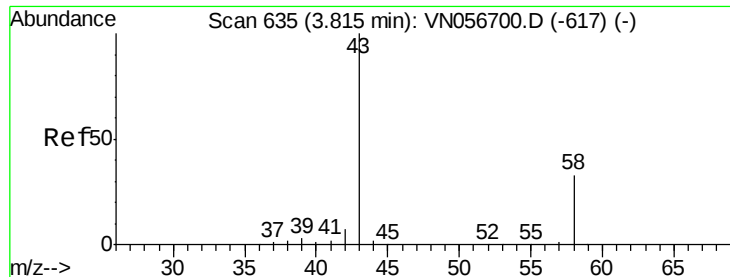
200

100

0

Time-->





#16

Acetone

Concen: 6.634 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN056790.D

Acq: 17 Jul 2019 12:38

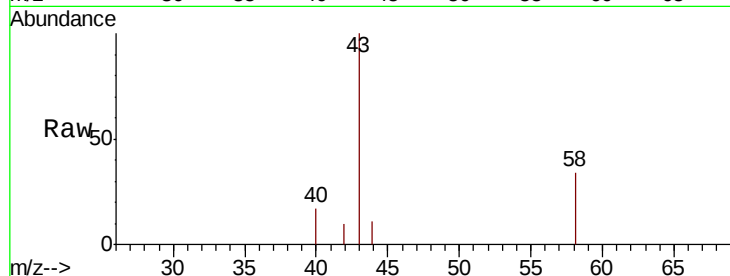
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 8631

Ion Ratio Lower Upper

43 100

58 34.4 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN056790.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN056790.D (-542) (-)

3.82

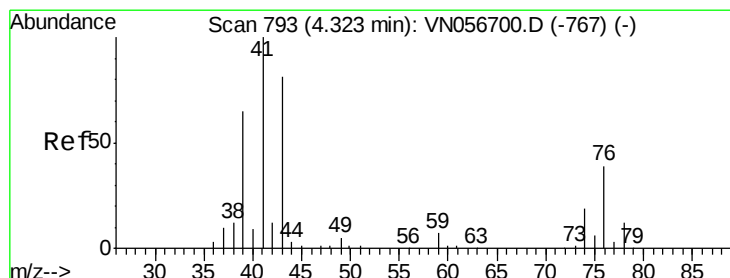
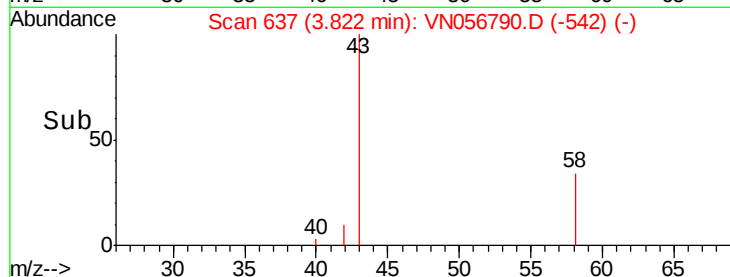
3000

2000

1000

0

Time-->



#18

Methyl Acetate

Concen: 0.590 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN056790.D

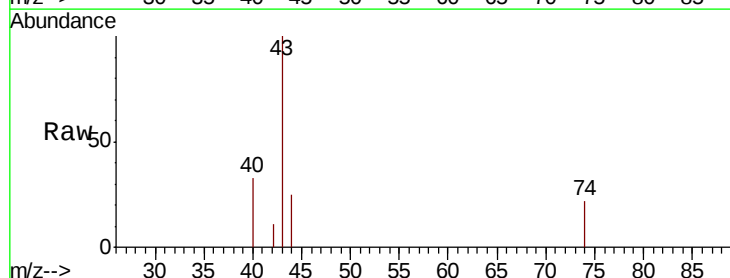
Acq: 17 Jul 2019 12:38

Tgt Ion: 43 Resp: 4535

Ion Ratio Lower Upper

43 100

74 14.0 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN056790.D (-700) (-)

Ion 74.00 (73.70 to 74.70): VN056790.D (-700) (-)

4.34

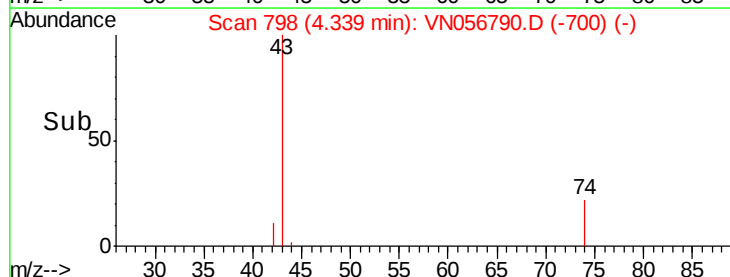
1500

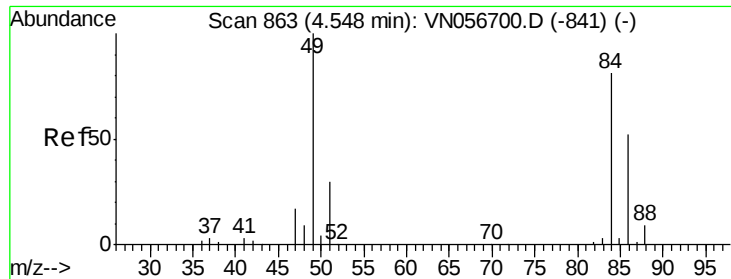
1000

500

0

Time-->

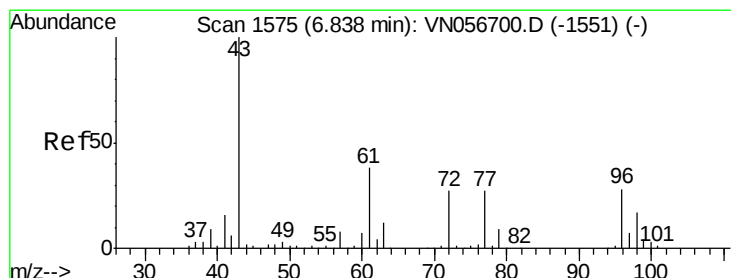
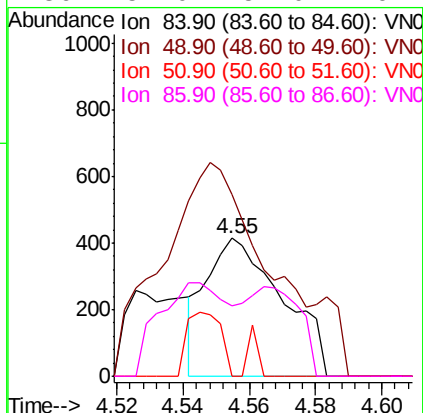
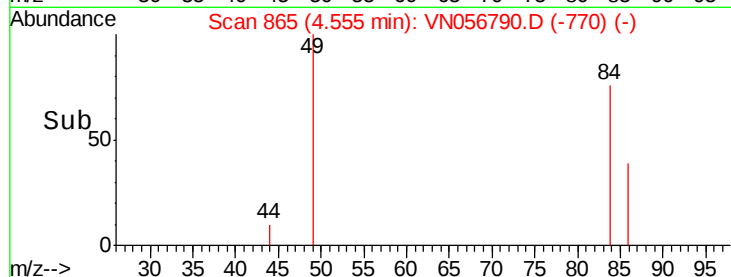
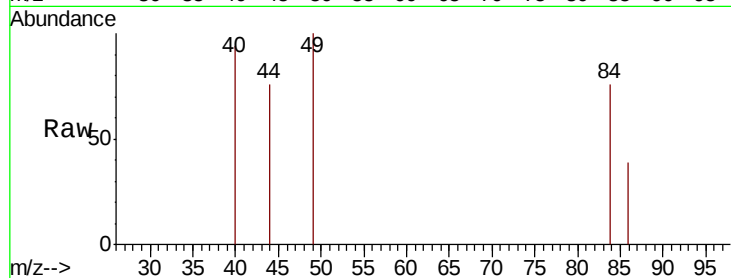




#20
Methvlene Chloride
Concen: 0.233 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN056790.D
Acq: 17 Jul 2019 12:38

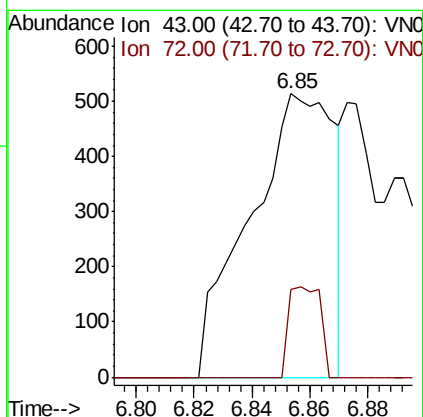
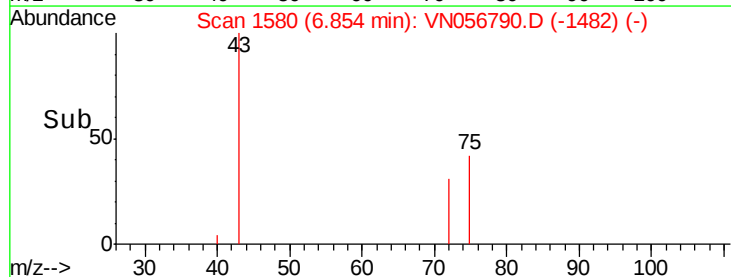
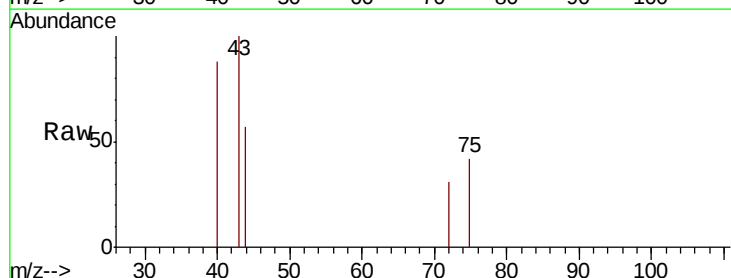
Instrument :
MSVOA_N
ClientSampleId :

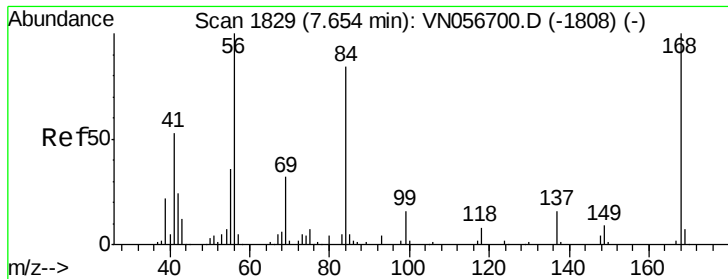
Tot Ion: 84 Resp: 662
Ion Ratio Lower Upper
84 100
49 81.9 98.2 147.4#
51 0.0 29.6 44.4#
86 51.0 51.0 76.4



#25
2-Butanone
Concen: 0.548 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN056790.D
Acq: 17 Jul 2019 12:38

Tgt Ion: 43 Resp: 1043
Ion Ratio Lower Upper
43 100
72 31.2 21.2 31.8

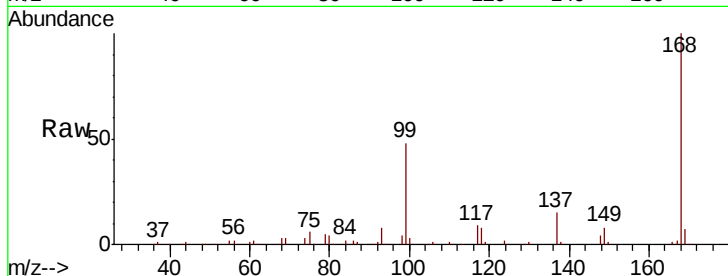




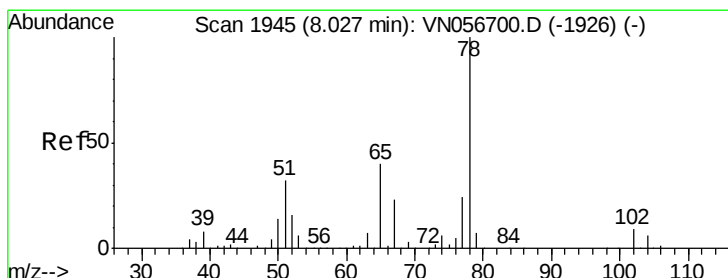
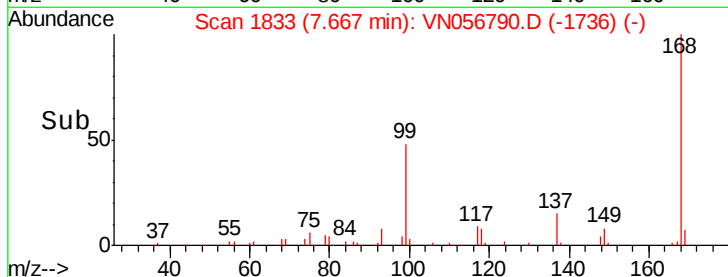
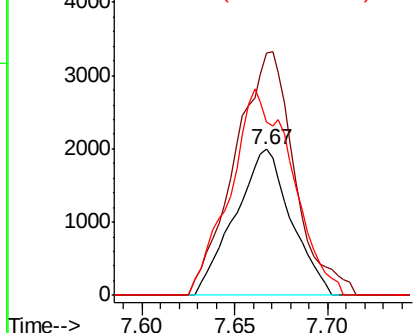
#31
Cyclohexane
Concen: 0.934 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN056790.D
Acq: 17 Jul 2019 12:38

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 4217
Ion Ratio Lower Upper
56 100
69 166.1 25.8 38.8#
84 118.9 67.4 101.0#

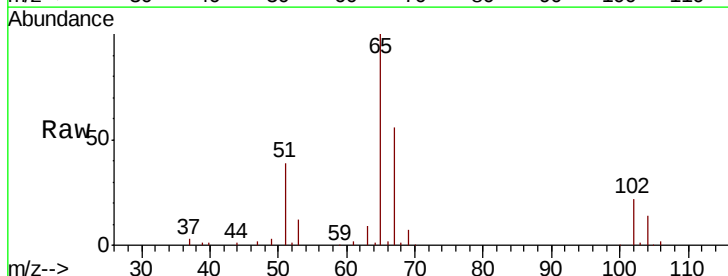


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

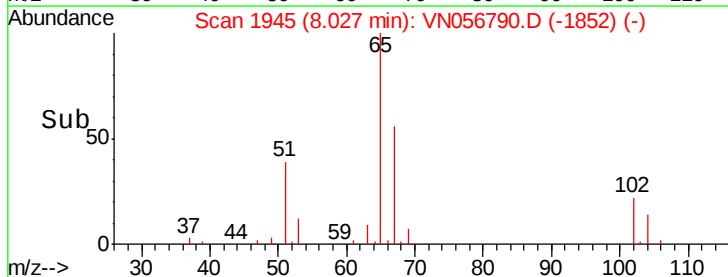
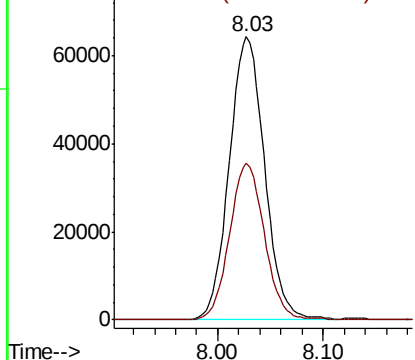


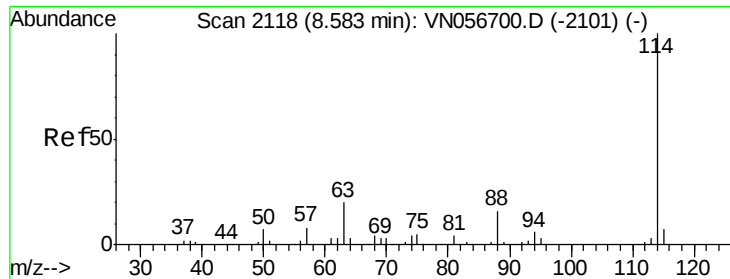
#33
1,2-Dichloroethane-d4
Concen: 52.984 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN056790.D
Acq: 17 Jul 2019 12:38

Tgt Ion: 65 Resp: 149588
Ion Ratio Lower Upper
65 100
67 54.6 0.0 109.0



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

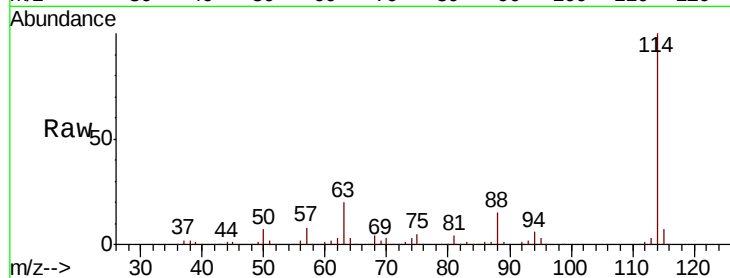




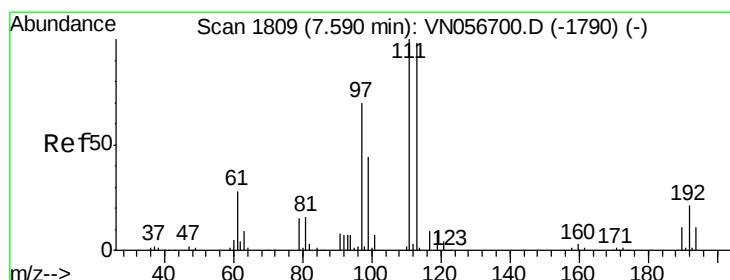
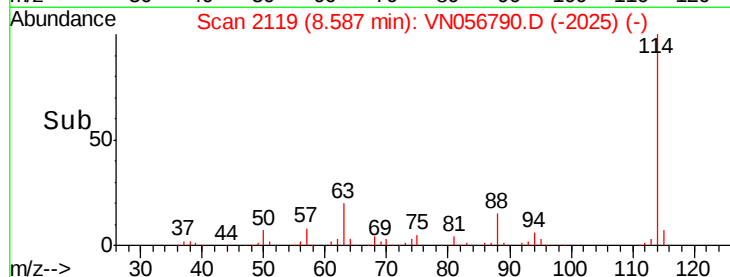
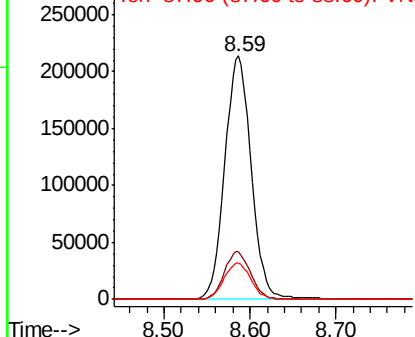
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056790.D
 Acq: 17 Jul 2019 12:38

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 456611
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.4
 88 14.9 0.0 31.2

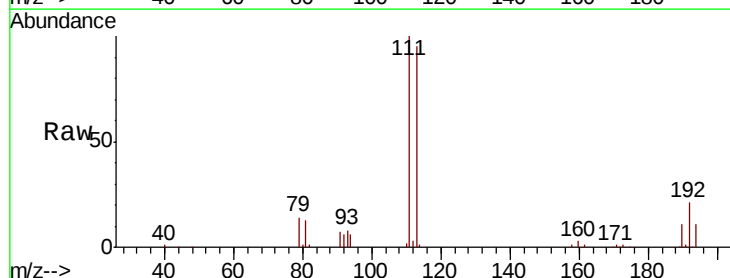


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

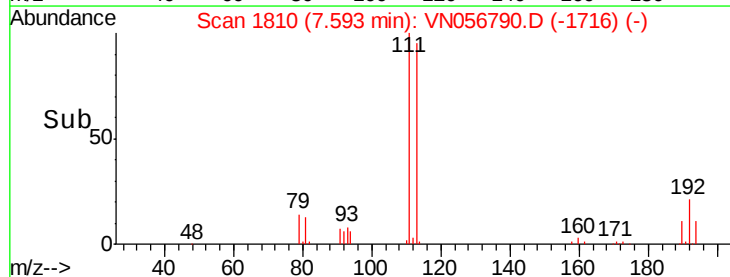
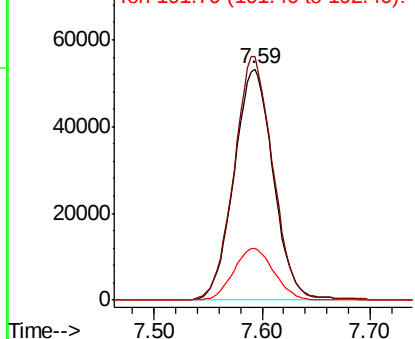


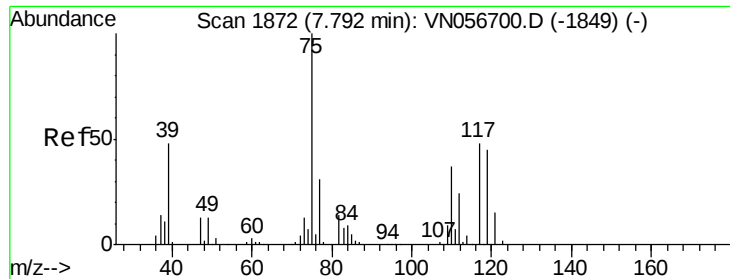
#35
 Dibromofluoromethane
 Concen: 47.453 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056790.D
 Acq: 17 Jul 2019 12:38

Tgt Ion:113 Resp: 134843
 Ion Ratio Lower Upper
 113 100
 111 104.4 81.8 122.6
 192 22.9 17.5 26.3



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





#36

1,1-Dichloropropene

Concen: 3.879 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056790.D

Acq: 17 Jul 2019 12:38

Instrument :
MSVOA_N
ClientSampleId :

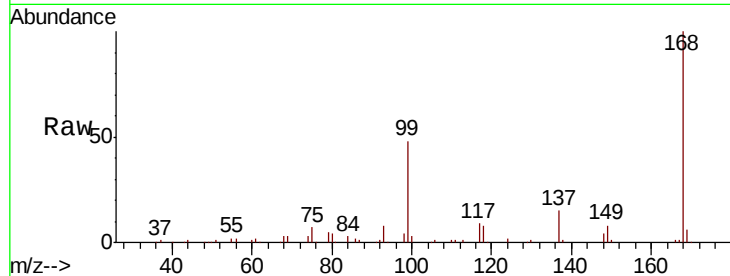
Tot Ion: 75 Resp: 16388

Ion Ratio Lower Upper

75 100

110 9.0 18.4 55.4#

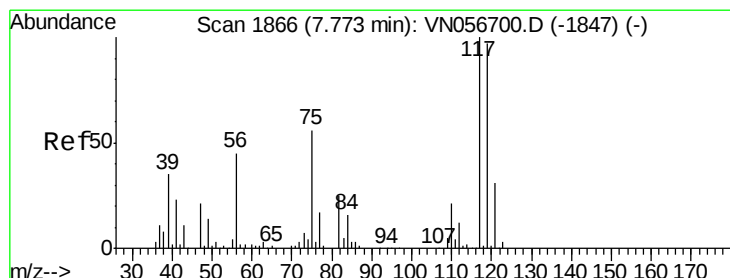
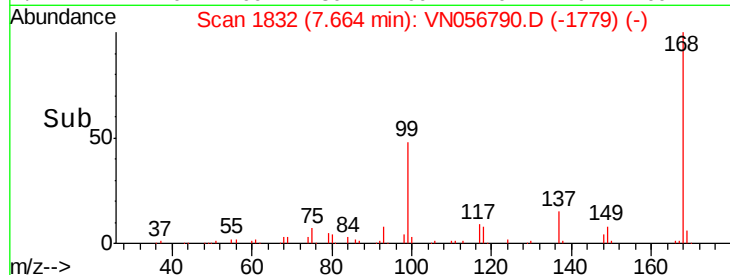
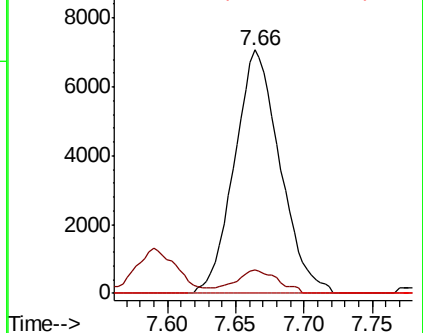
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN056790.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN056790.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN056790.D (-1779) (-)



#38

Carbon Tetrachloride

Concen: 5.521 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056790.D

Acq: 17 Jul 2019 12:38

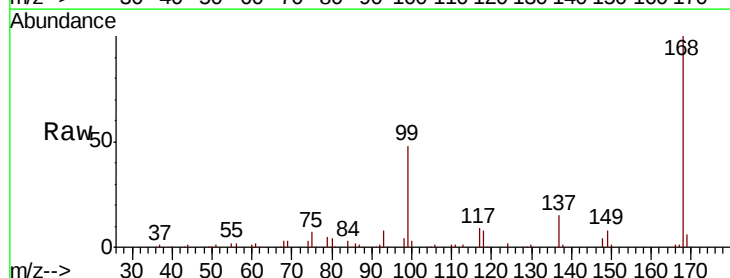
Tgt Ion: 117 Resp: 21875

Ion Ratio Lower Upper

117 100

119 5.1 77.5 116.3#

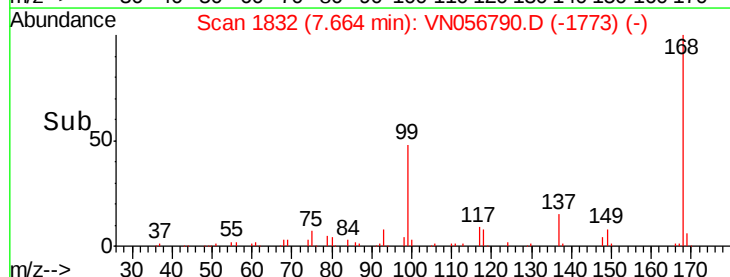
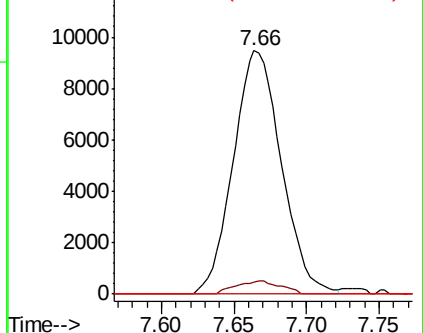
121 0.0 24.7 37.1#

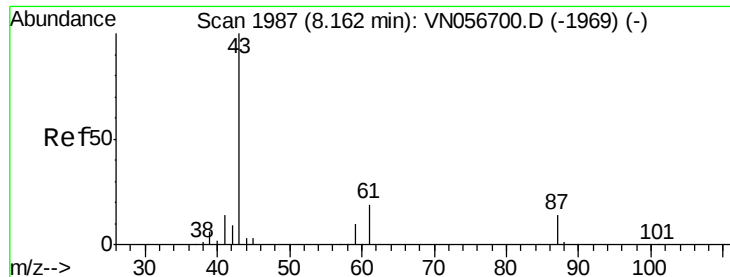


Abundance Ion 116.80 (116.50 to 117.50): VN056790.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN056790.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN056790.D (-1773) (-)





#43

Isopropyl Acetate

Concen: 4.733 ug/l

RT: 8.31 min Scan# 2034

Delta R.T. 0.15 min

Lab File: VN056790.D

Acq: 17 Jul 2019 12:38

Instrument :

MSVOA_N

ClientSampleId :

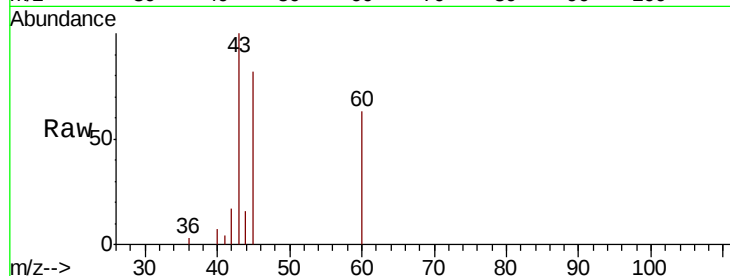
Tot Ion: 43 Resp: 30989

Ion Ratio Lower Upper

43 100

61 0.0 22.3 33.5#

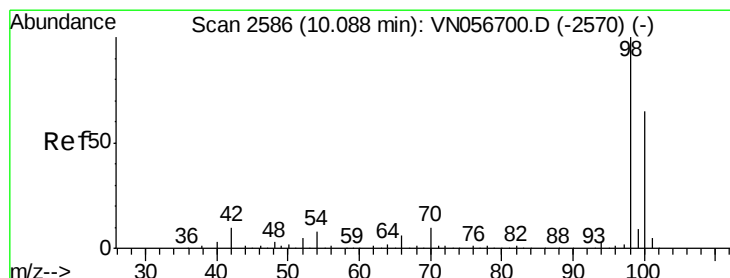
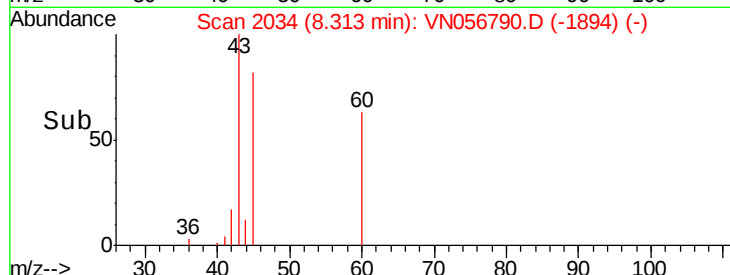
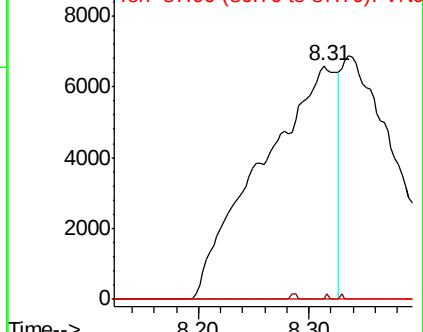
87 0.0 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 51.852 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056790.D

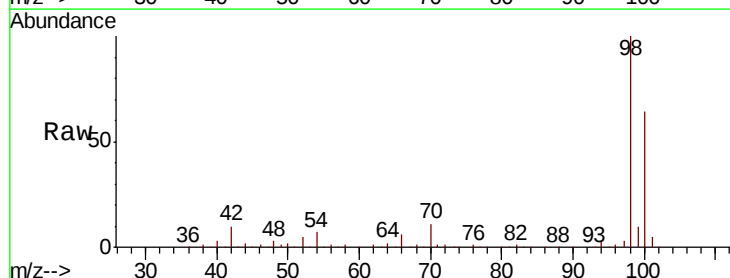
Acq: 17 Jul 2019 12:38

Tgt Ion: 98 Resp: 569067

Ion Ratio Lower Upper

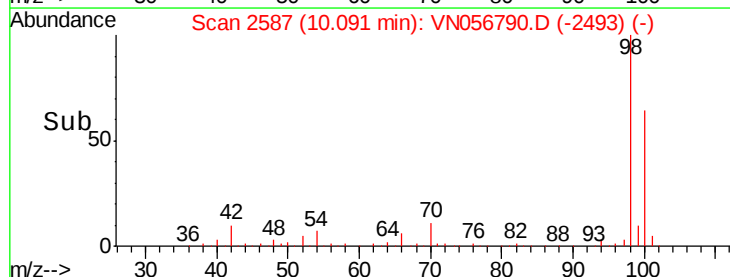
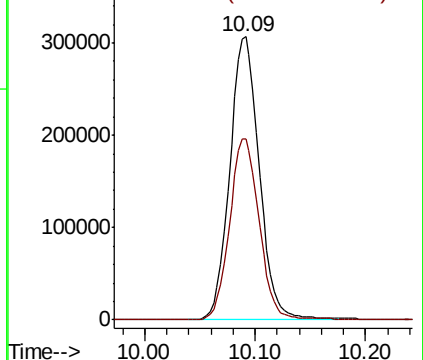
98 100

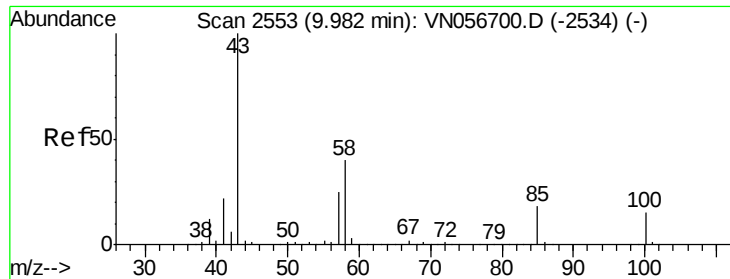
100 64.2 52.0 78.0



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: 0.292 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN056790.D

Acq: 17 Jul 2019 12:38

Instrument :

MSVOA_N

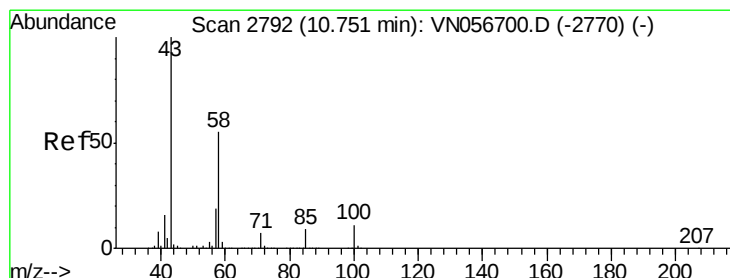
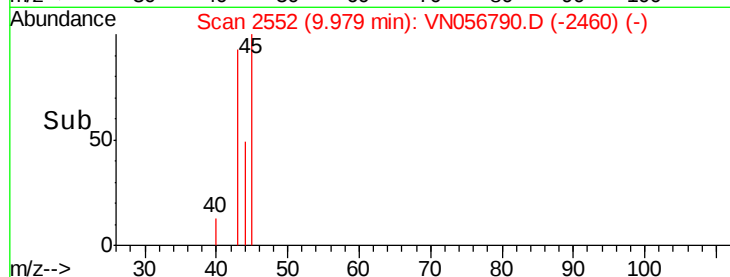
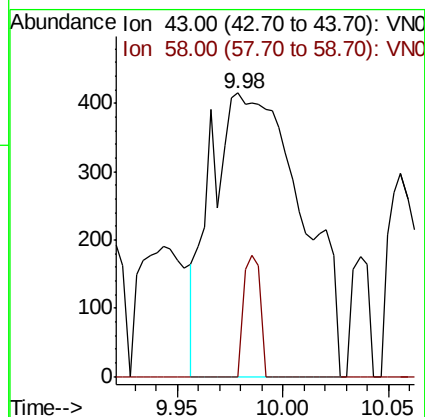
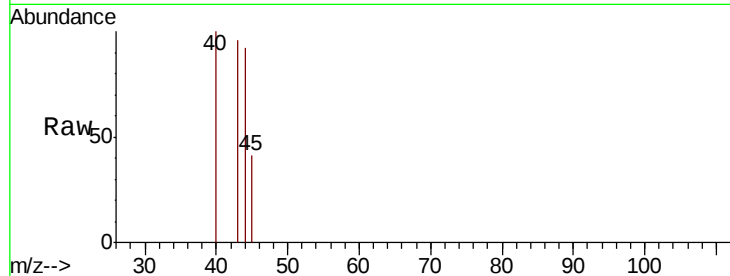
ClientSampled :

Tot Ion: 43 Resp: 1239

Ion Ratio Lower Upper

43 100

58 0.0 32.0 48.0#



#59

2-Hexanone

Concen: 0.547 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN056790.D

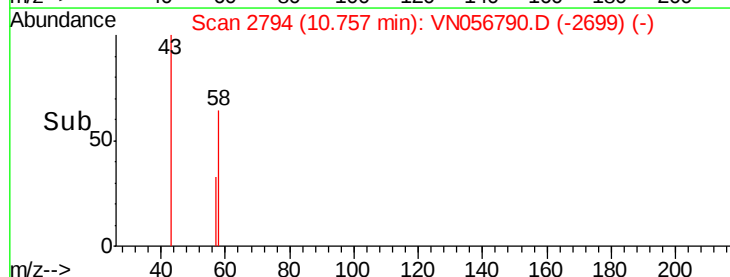
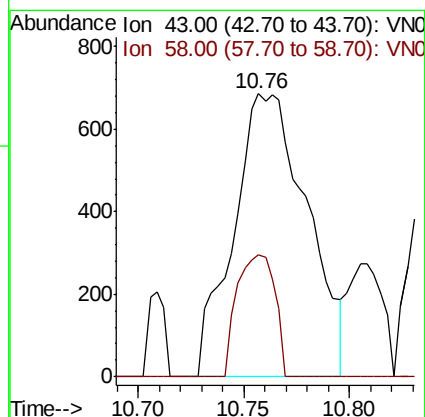
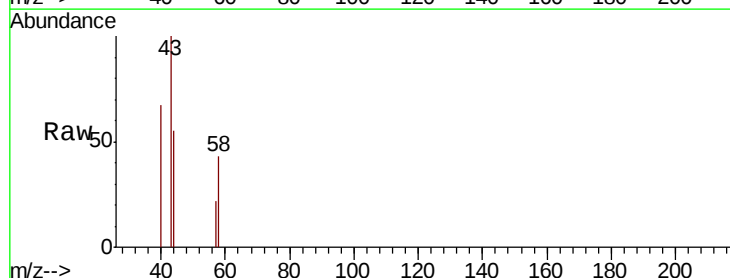
Acq: 17 Jul 2019 12:38

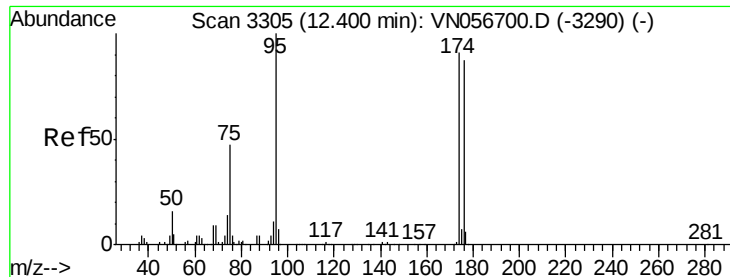
Tgt Ion: 43 Resp: 1665

Ion Ratio Lower Upper

43 100

58 22.2 27.9 83.6#





#62

4-Bromofluorobenzene

Concen: 53.999 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056790.D

Acq: 17 Jul 2019 12:38

Instrument :

MSVOA_N

ClientSampleId :

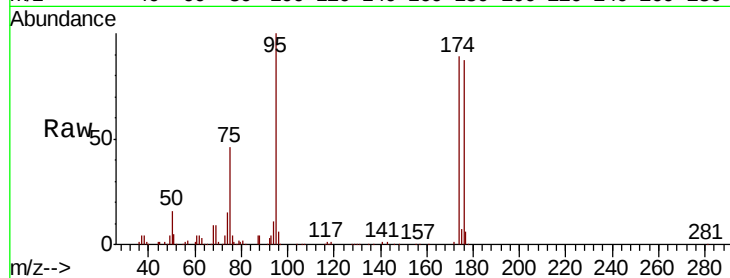
Tot Ion: 95 Resp: 199854

Ion Ratio Lower Upper

95 100

174 90.2 0.0 180.0

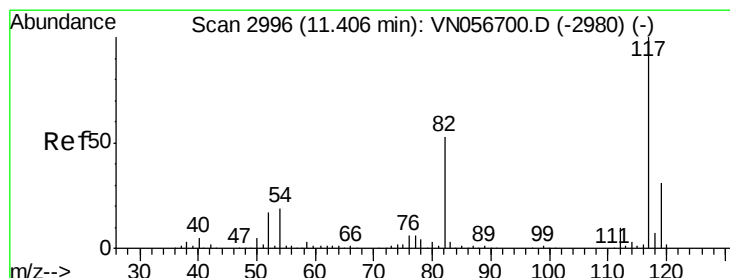
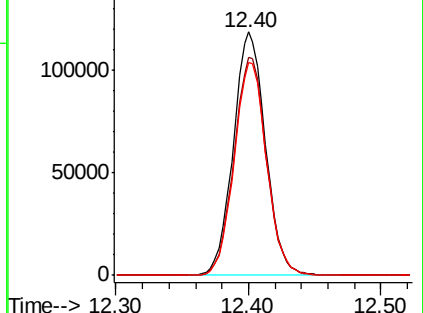
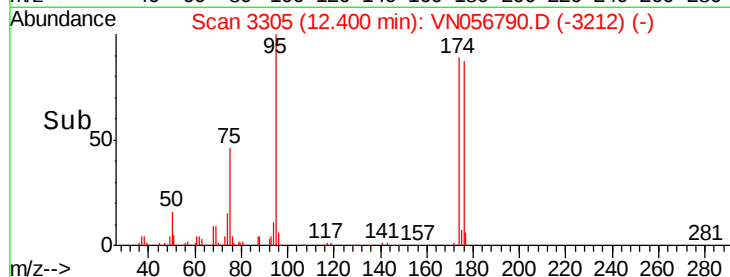
176 88.2 0.0 173.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056790.D

Acq: 17 Jul 2019 12:38

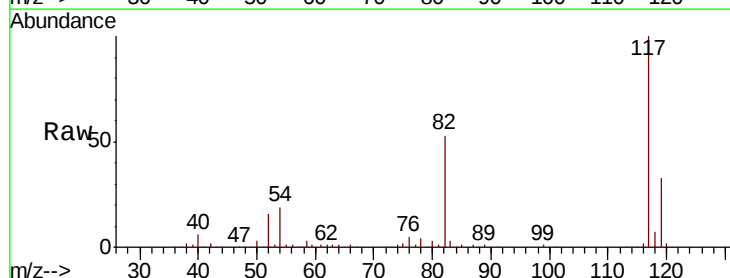
Tgt Ion: 117 Resp: 474636

Ion Ratio Lower Upper

117 100

82 52.8 42.2 63.2

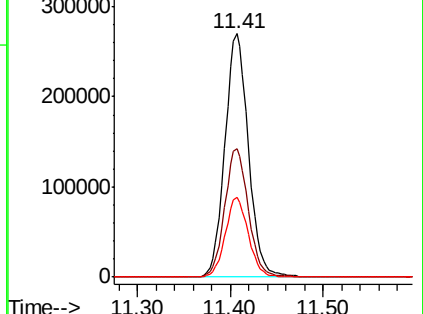
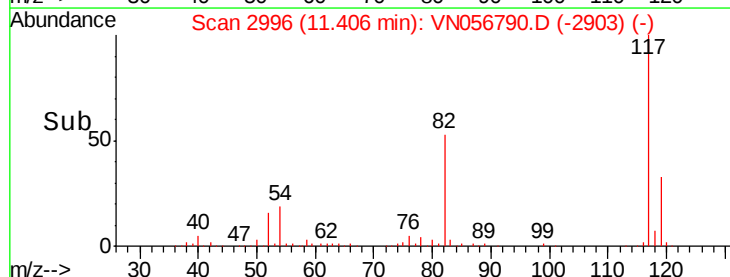
119 32.7 25.2 37.8

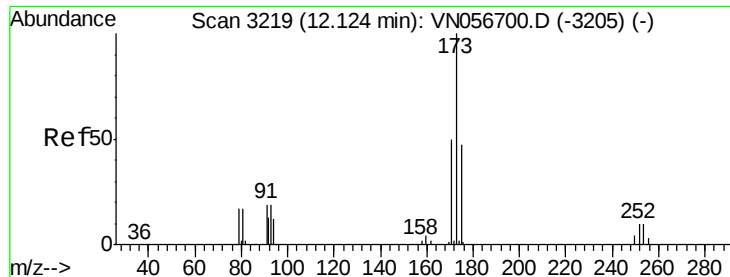


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.217 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN056790.D

Acq: 17 Jul 2019 12:38

Instrument :

MSVOA_N

ClientSampled :

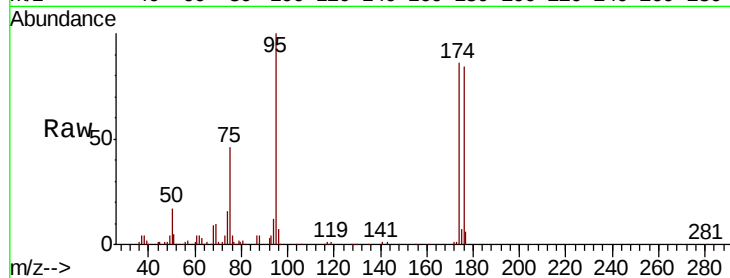
Tot Ion:173 Resp: 591

Ion Ratio Lower Upper

173 100

175 0.0 23.8 71.4#

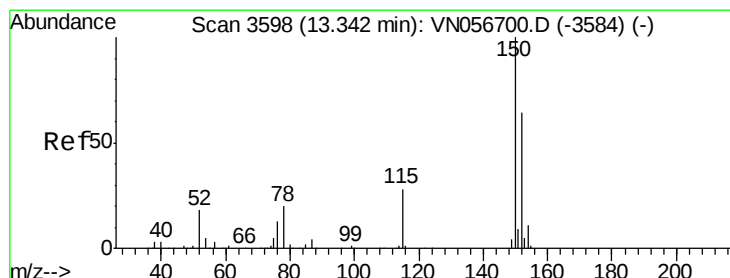
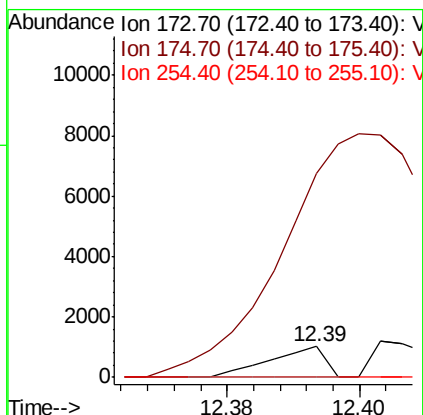
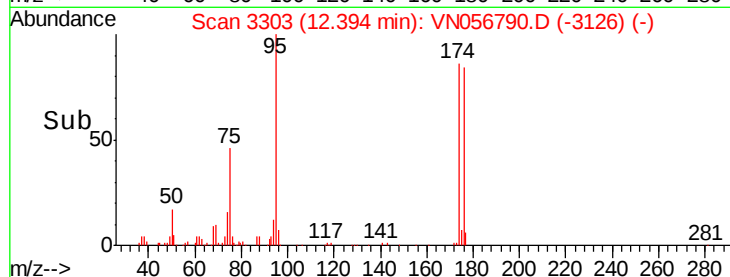
254 0.0 0.0 0.0



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056790.D

Acq: 17 Jul 2019 12:38

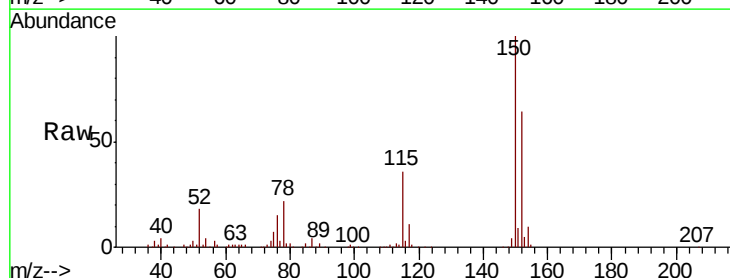
Tgt Ion:152 Resp: 167723

Ion Ratio Lower Upper

152 100

115 56.2 28.2 84.7

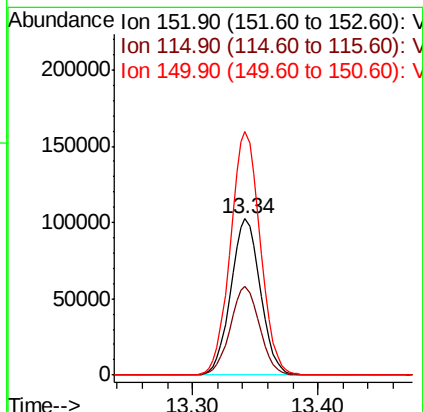
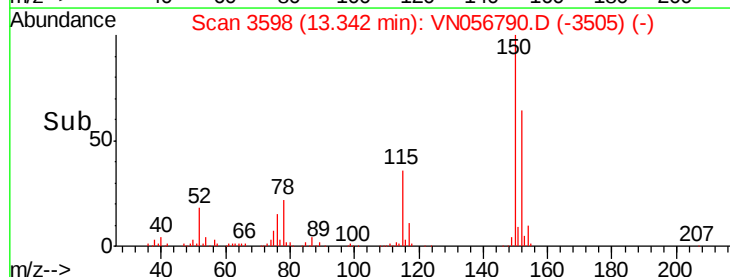
150 156.5 0.0 345.8

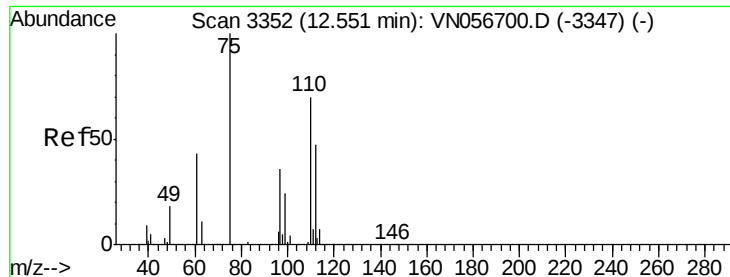


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.252 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056790.D

Acq: 17 Jul 2019 12:38

Instrument :

MSVOA_N

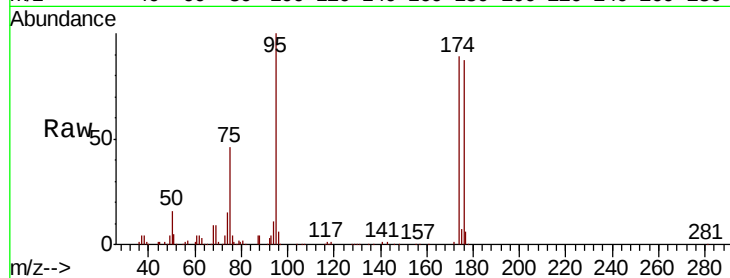
ClientSampled :

Tot Ion: 75 Resp: 92635

Ion Ratio Lower Upper

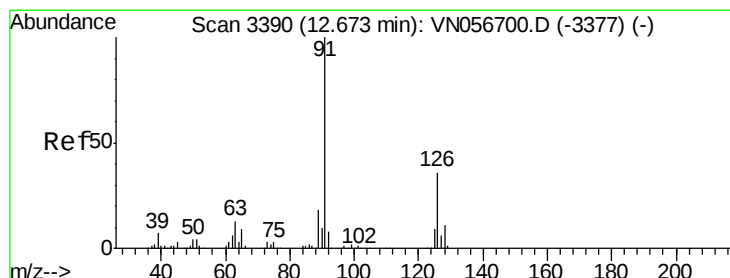
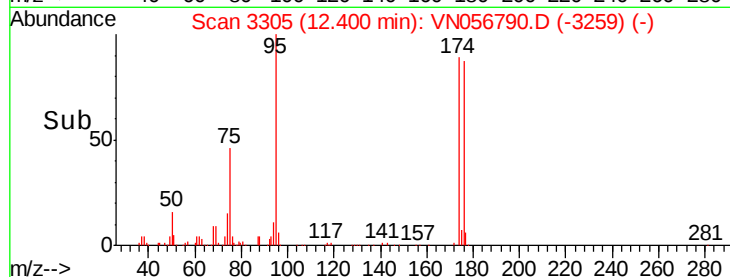
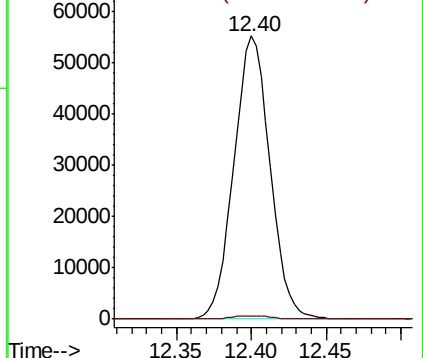
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN056790.D

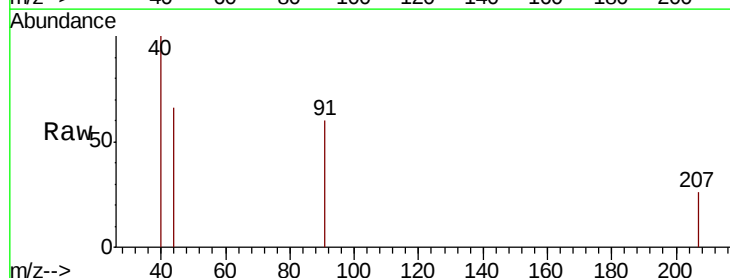
Acq: 17 Jul 2019 12:38

Tgt Ion: 91 Resp: 457

Ion Ratio Lower Upper

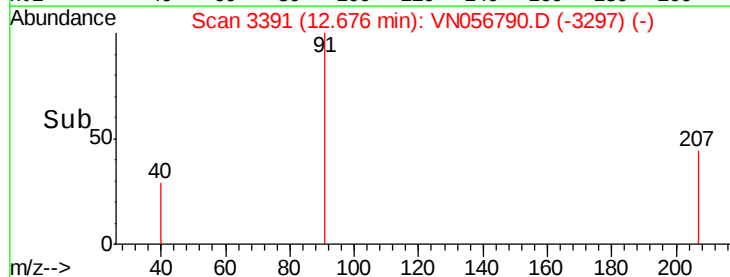
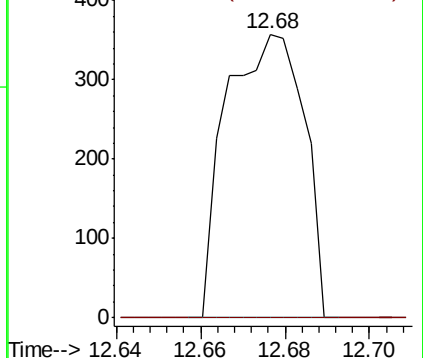
91 100

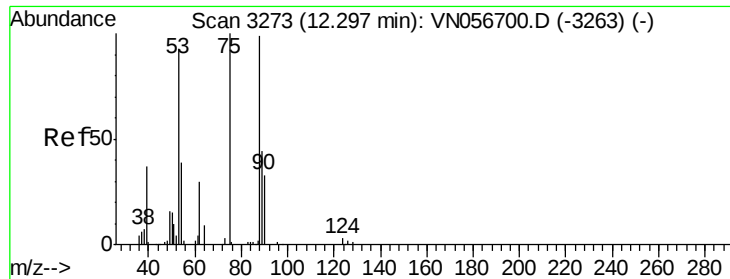
126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

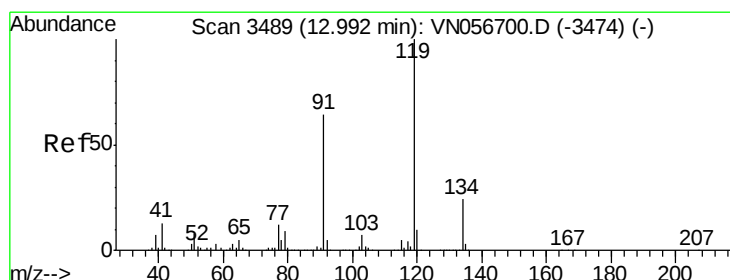
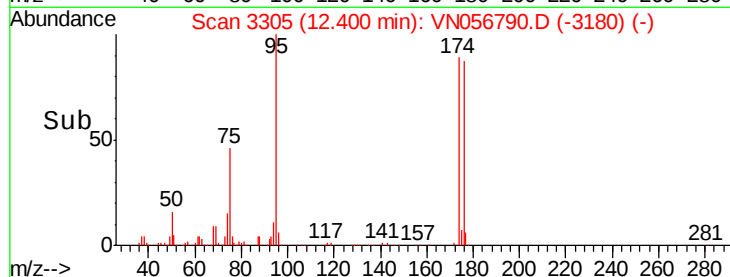
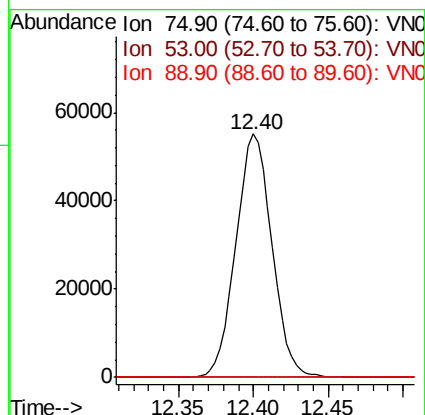
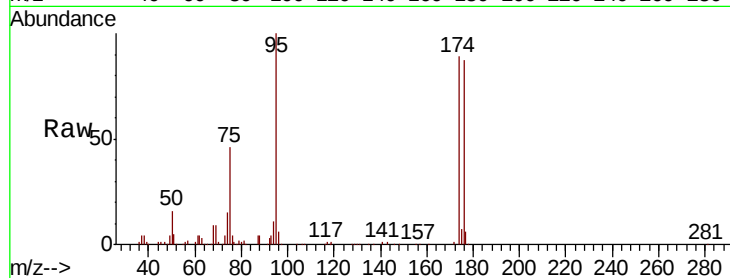




#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.988 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN056790.D
 Acq: 17 Jul 2019 12:38

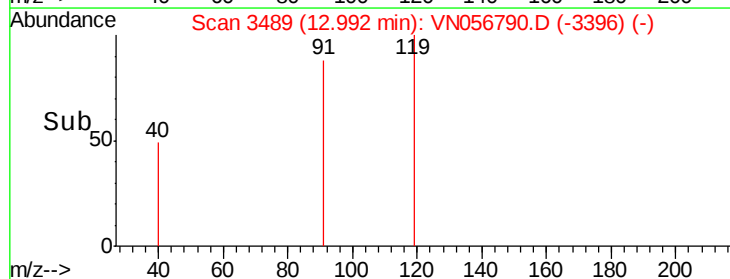
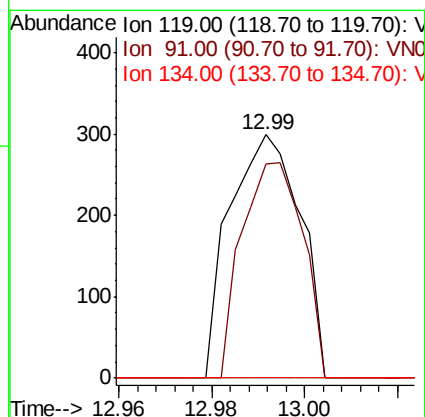
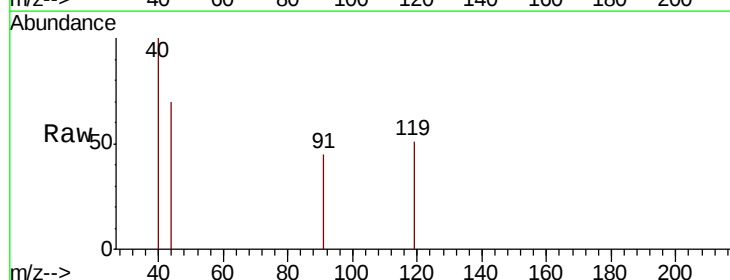
Instrument :
 MSVOA_N
 ClientSampleId :

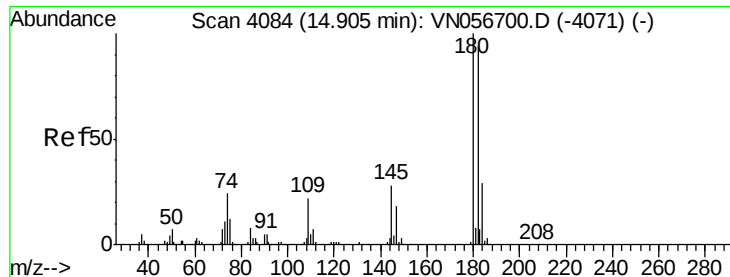
Tot Ion: 75 Resp: 92635
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.7 110.5#
 89 0.0 36.2 54.2#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN056790.D
 Acq: 17 Jul 2019 12:38

Tgt Ion: 119 Resp: 317
 Ion Ratio Lower Upper
 119 100
 91 76.7 31.8 95.4
 134 0.0 13.0 38.9#





#93

1,2,4-Trichlorobenzene

Concen: 4.011 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN056790.D

Acq: 17 Jul 2019 12:38

Instrument :

MSVOA_N

ClientSampleId :

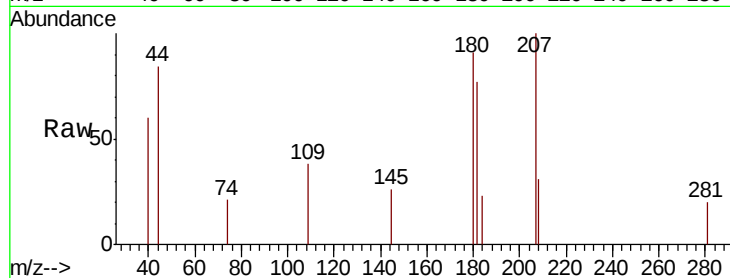
Tot Ion:180 Resp: 1129

Ion Ratio Lower Upper

180 100

182 83.6 47.2 141.6

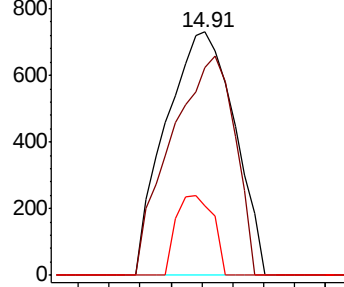
145 17.7 14.2 42.8



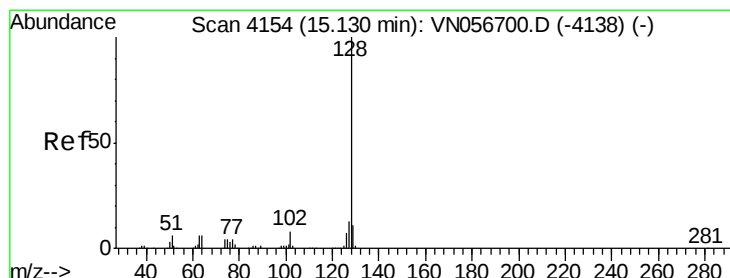
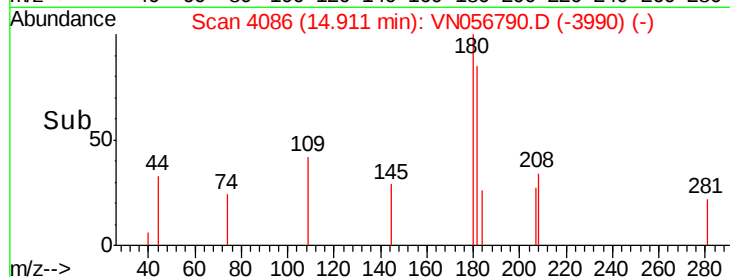
Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->



#95

Naphthalene

Concen: 4.956 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056790.D

Acq: 17 Jul 2019 12:38

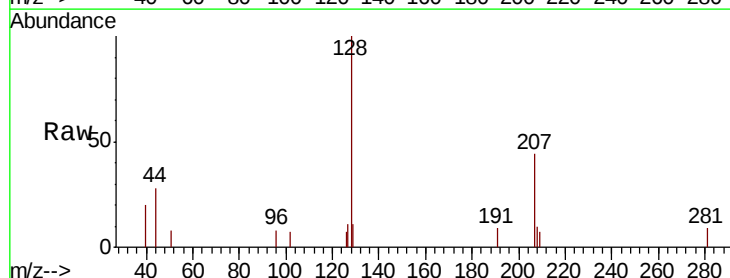
Tgt Ion:128 Resp: 4253

Ion Ratio Lower Upper

128 100

127 7.2 10.3 15.5#

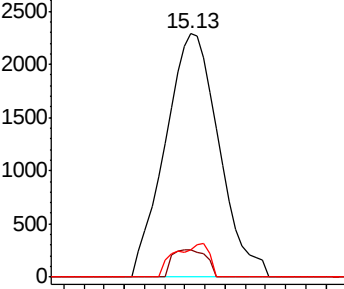
129 8.8 8.7 13.1



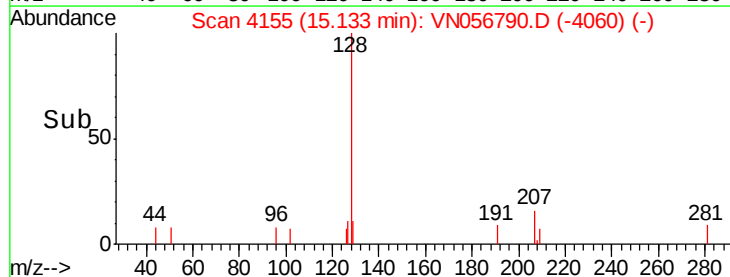
Abundance Ion 128.00 (127.70 to 128.70): V

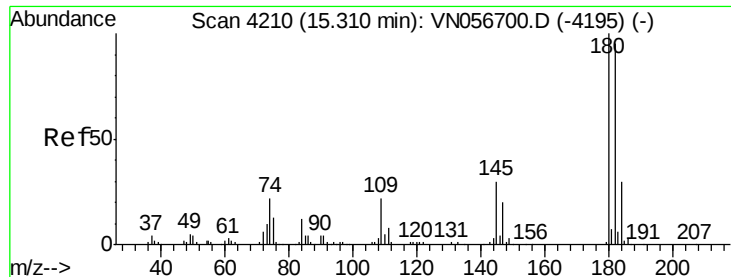
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->

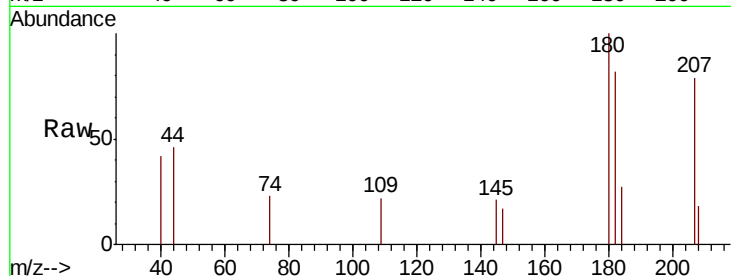




#96
 1,2,3-Trichlorobenzene
 Concen: 3.830 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN056790.D
 Acq: 17 Jul 2019 12:38

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	78.6	47.1	141.3
145	19.8	15.0	45.1



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

