

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061220\
 Data File : VD065791.D
 Acq On : 12 Jun 2020 12:50
 Operator : VA/SY
 Sample : L2808-01
 Misc : 6.67G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 13 01:38:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060520S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 05 13:07:30 2020
 Response via : Initial Calibration

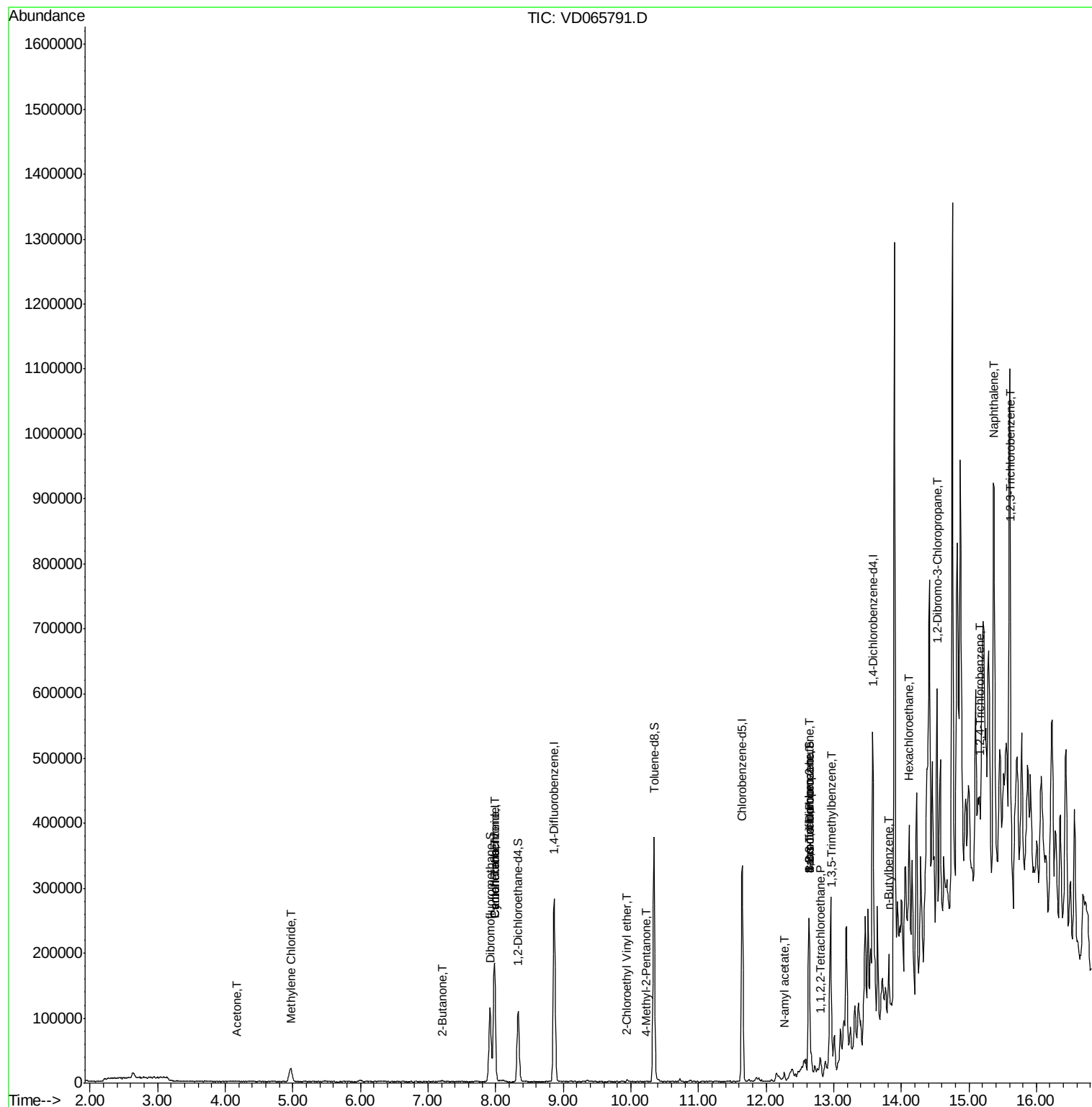
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	129808	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	230709	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	184612	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	73883	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	87650	68.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	136.66%	
35) Dibromofluoromethane	7.92	113	80426	55.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.38%	
50) Toluene-d8	10.34	98	250056	46.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.04%	
62) 4-Bromofluorobenzene	12.64	95	76457	41.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.98%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	495	Below Cal		93
3) Chloromethane	2.21	50	859	Below Cal	#	85
16) Acetone	4.17	43	1932	7.985	ug/l #	79
18) Methyl Acetate	4.74	43	663	Below Cal	#	52
20) Methylene Chloride	4.97	84	14785	7.746	ug/l	94
25) 2-Butanone	7.21	43	795	2.379	ug/l #	52
31) Cyclohexane	7.98	56	4914	2.136	ug/l #	57
38) Carbon Tetrachloride	7.98	117	14311	6.153	ug/l #	16
51) 4-Methyl-2-Pentanone	10.23	43	908	1.070	ug/l #	57
58) 2-Chloroethyl Vinyl ether	9.94	63	1204	2.001	ug/l	99
71) Bromoform	12.63	173	858	1.160	ug/l #	1
74) N-amyl acetate	12.27	43	2928	2.657	ug/l #	70
75) 1,1,2,2-Tetrachloroethane	12.80	83	1727	2.064	ug/l #	25
76) 1,2,3-Trichloropropane	12.63	75	40188	69.941	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.97	105	12264	2.975	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.63	75	40188	151.116	ug/l #	9
89) n-Butylbenzene	13.81	91	15642	3.595	ug/l #	1
90) Hexachloroethane	14.12	117	7565	8.284	ug/l #	18
92) 1,2-Dibromo-3-Chloropropan	14.53	75	775	5.566	ug/l #	22
93) 1,2,4-Trichlorobenzene	15.17	180	2164	1.600	ug/l #	1
95) Naphthalene	15.37	128	5580	2.436	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.62	180	3517	3.020	ug/l #	13

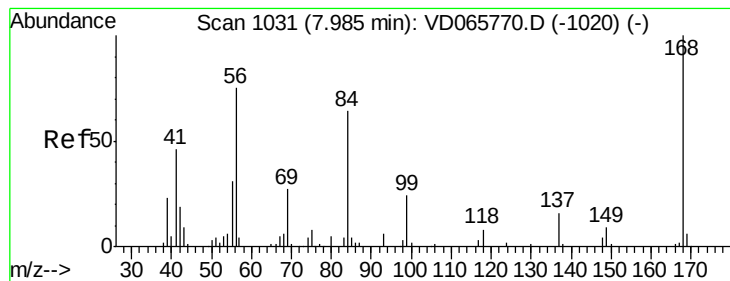
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD061220\
Data File : VD065791.D
Acq On : 12 Jun 2020 12:50
Operator : VA/SY
Sample : L2808-01
Misc : 6.67G/5.00ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :

Quant Time: Jun 13 01:38:32 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D060520S.M
Quant Title : SW846 8260
QLast Update : Fri Jun 05 13:07:30 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065791.D

Acq: 12 Jun 2020 12:50

Instrument :

MSVOA_D

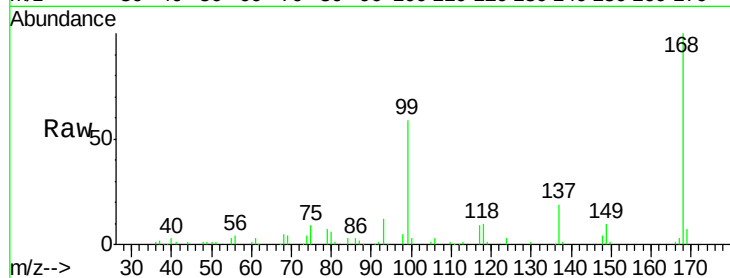
ClientSampleId :

Tot Ion:168 Resp: 129808

Ion Ratio Lower Upper

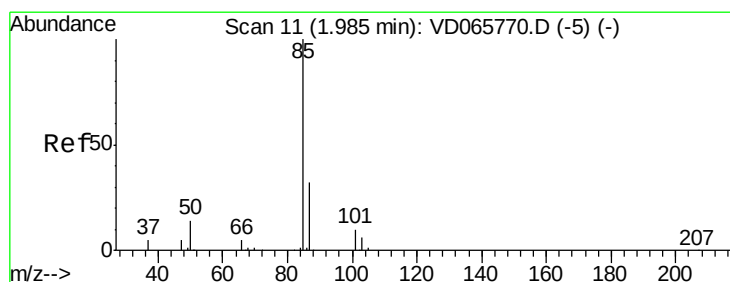
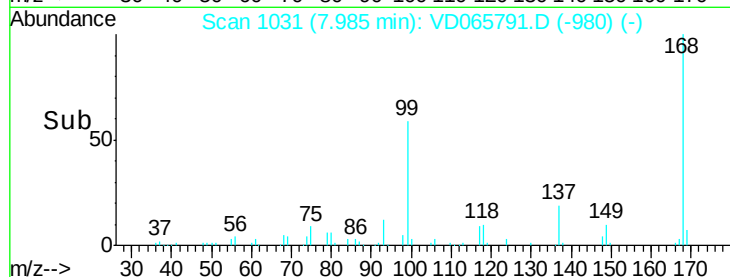
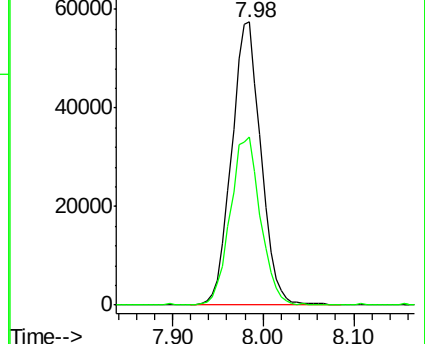
168 100

99 59.4 45.3 67.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD065791.D

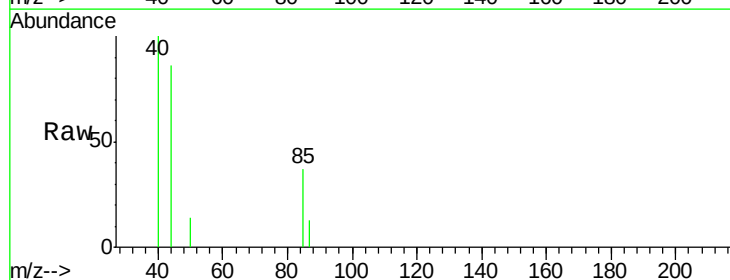
Acq: 12 Jun 2020 12:50

Tgt Ion: 85 Resp: 495

Ion Ratio Lower Upper

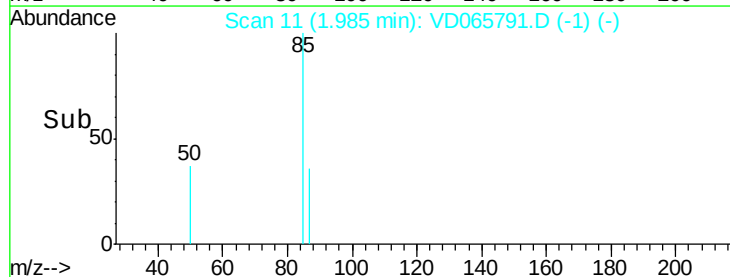
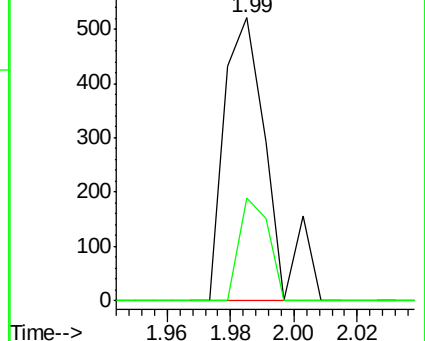
85 100

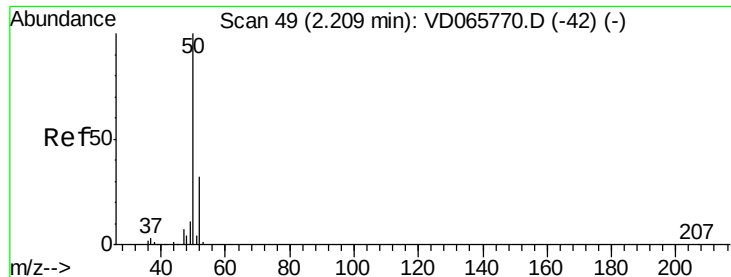
87 36.1 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065791.D

Acq: 12 Jun 2020 12:50

Instrument :

MSVOA_D

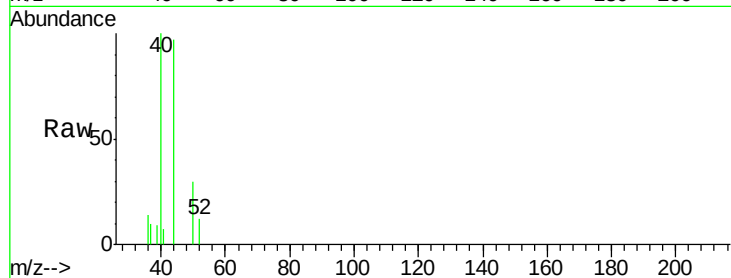
ClientSampleId :

Tot Ion: 50 Resp: 859

Ion Ratio Lower Upper

50 100

52 40.2 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

800

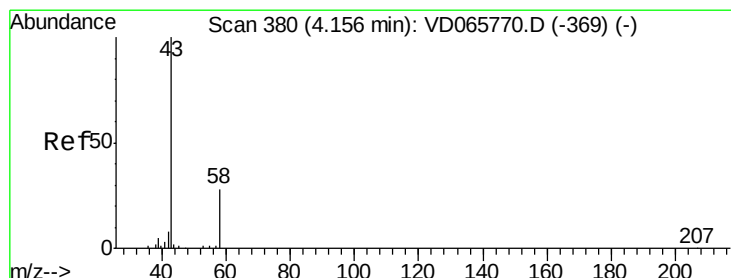
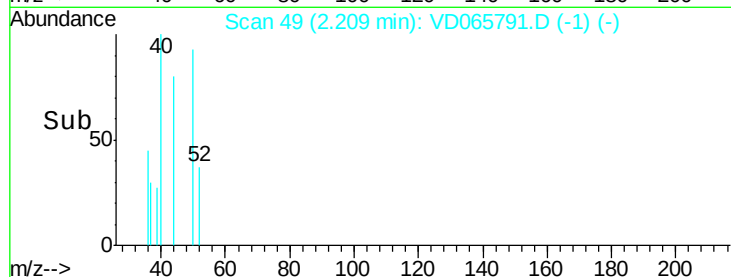
600

400

200

0

Time--> 2.15 2.20 2.25



#16

Acetone

Concen: 7.985 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD065791.D

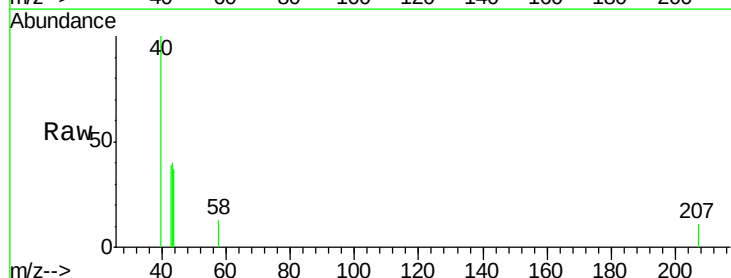
Acq: 12 Jun 2020 12:50

Tgt Ion: 43 Resp: 1932

Ion Ratio Lower Upper

43 100

58 16.9 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

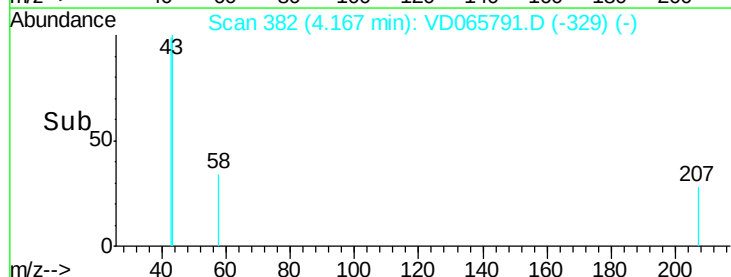
4.17

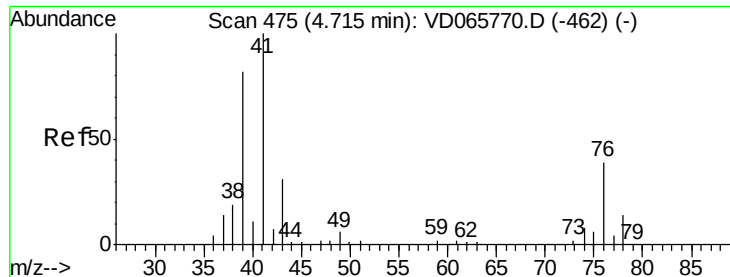
1000

500

0

Time--> 4.10 4.15 4.20

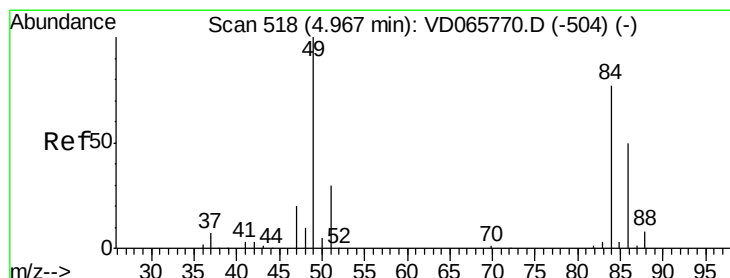
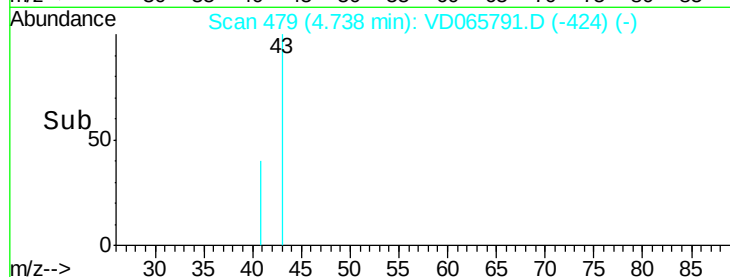
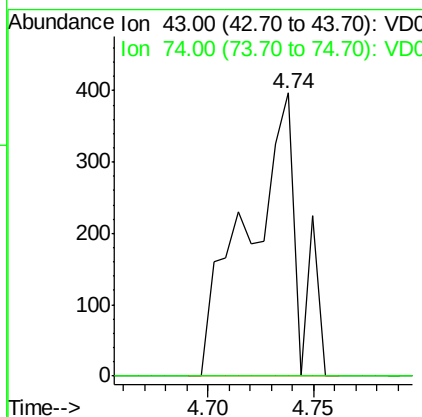
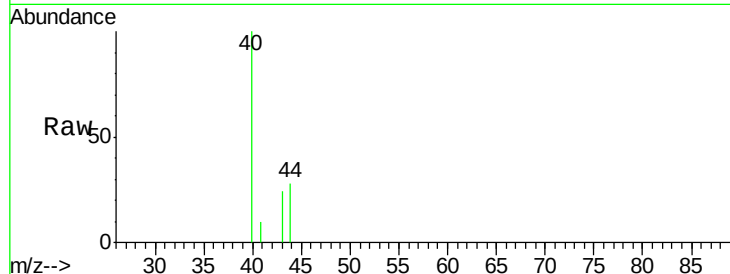




#18
Methyl Acetate
Concen: Below Cal
RT: 4.74 min Scan# 479
Delta R.T. 0.02 min
Lab File: VD065791.D
Acq: 12 Jun 2020 12:50

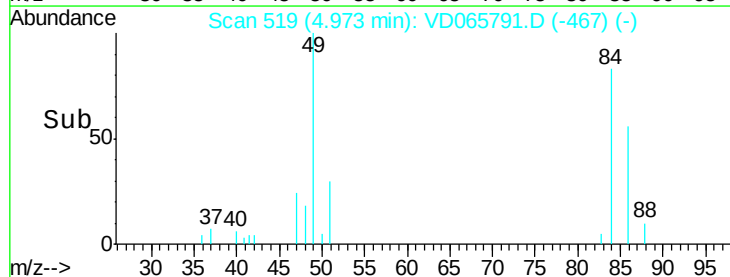
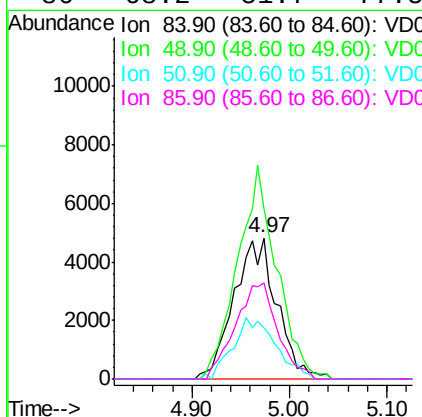
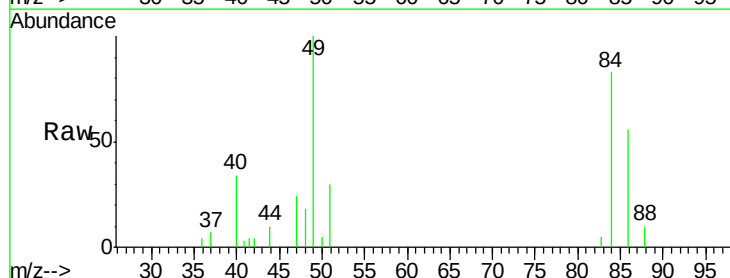
Instrument :
MSVOA_D
ClientSampleId :

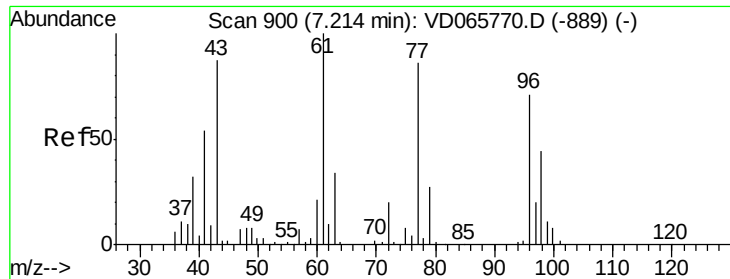
Tot Ion: 43 Resp: 663
Ion Ratio Lower Upper
43 100
74 0.0 18.7 28.1#



#20
Methylene Chloride
Concen: 7.746 ug/l
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD065791.D
Acq: 12 Jun 2020 12:50

Tgt Ion: 84 Resp: 14785
Ion Ratio Lower Upper
84 100
49 121.0 103.4 155.0
51 36.3 31.4 47.2
86 68.2 51.7 77.5

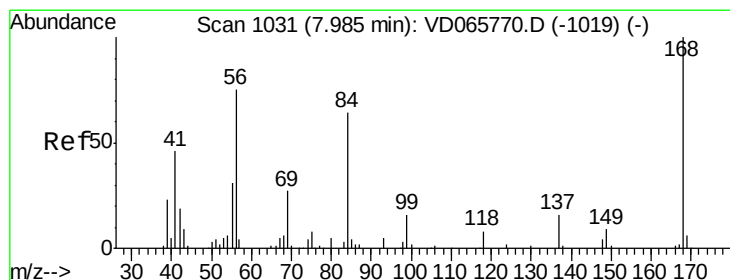
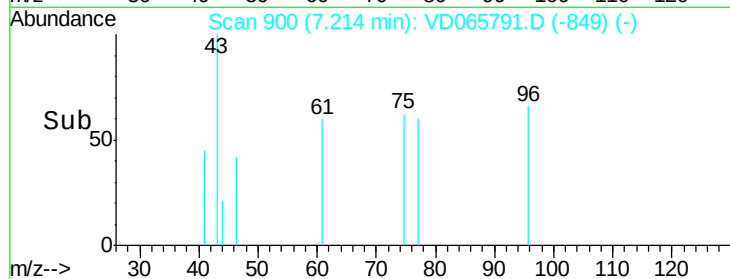
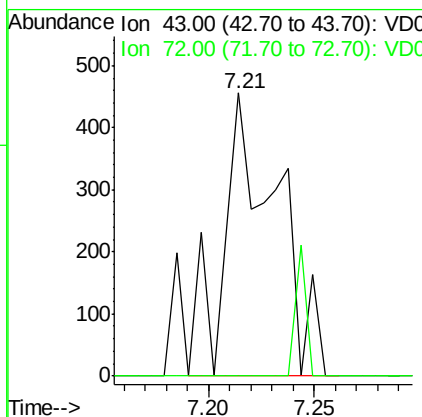
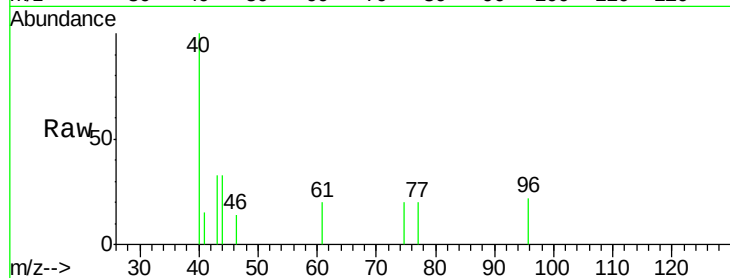




#25
2-Butanone
Concen: 2.379 ug/l
RT: 7.21 min Scan# 900
Delta R.T. -0.00 min
Lab File: VD065791.D
Acq: 12 Jun 2020 12:50

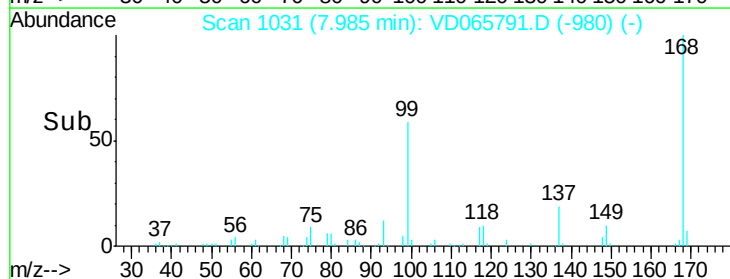
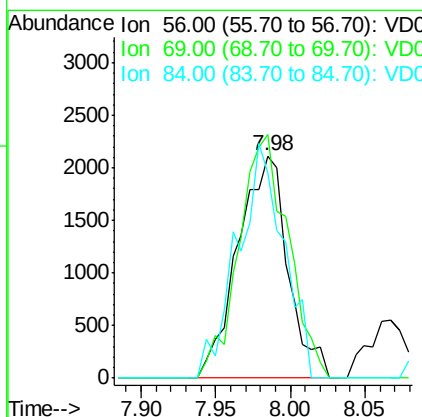
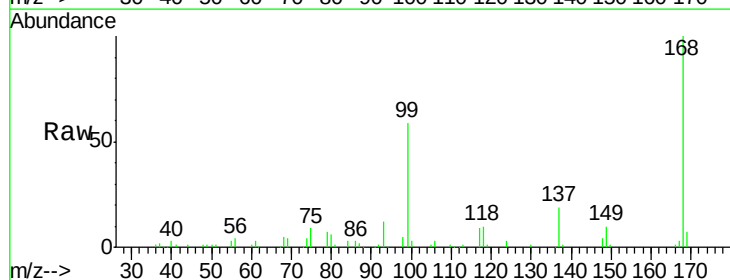
Instrument :
MSVOA_D
ClientSampled :

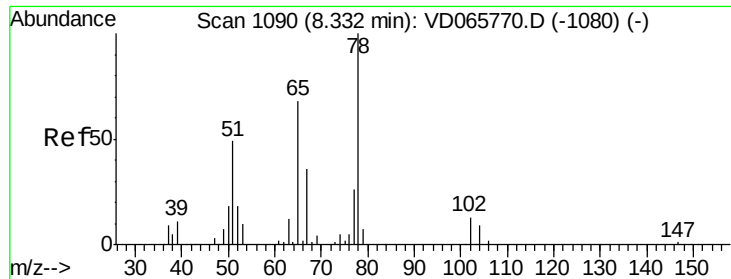
Tot Ion: 43 Resp: 795
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#



#31
Cyclohexane
Concen: 2.136 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065791.D
Acq: 12 Jun 2020 12:50

Tgt Ion: 56 Resp: 4914
Ion Ratio Lower Upper
56 100
69 109.8 28.5 42.7#
84 92.5 68.4 102.6

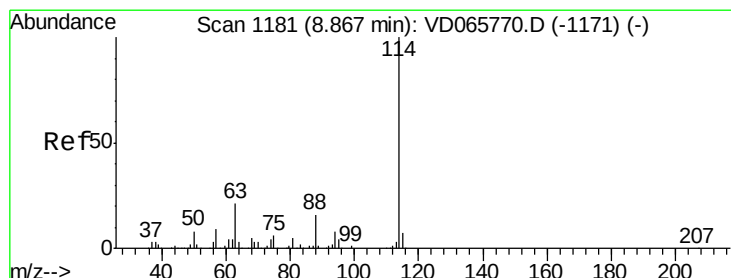
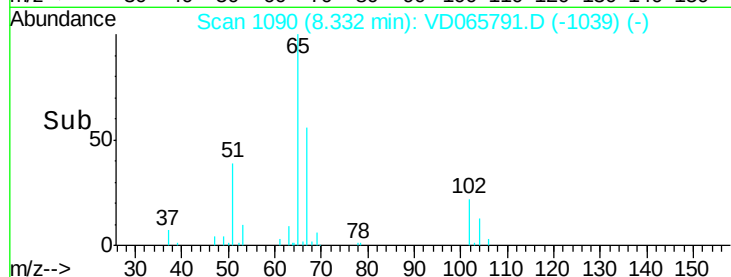
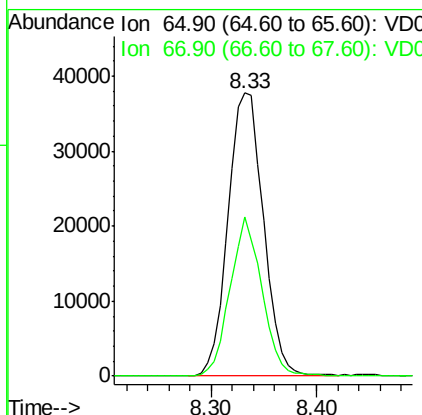
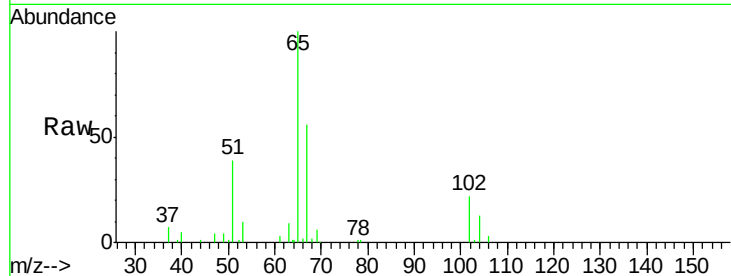




#33
 1,2-Dichloroethane-d4
 Concen: 68.334 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VD065791.D
 Acq: 12 Jun 2020 12:50

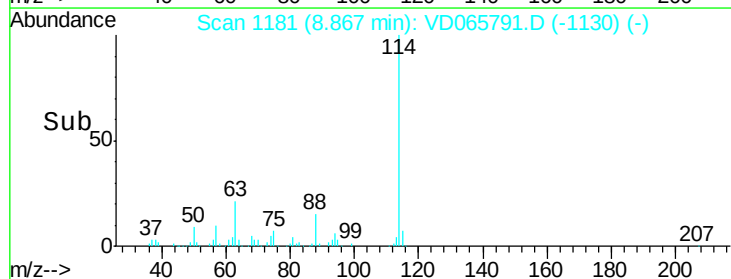
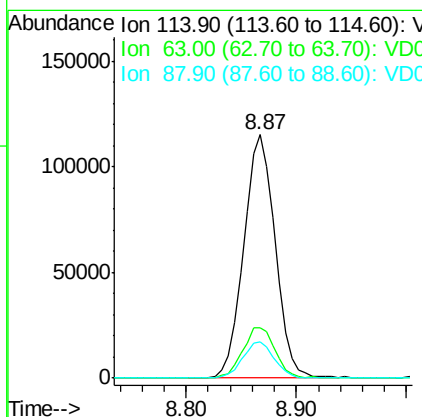
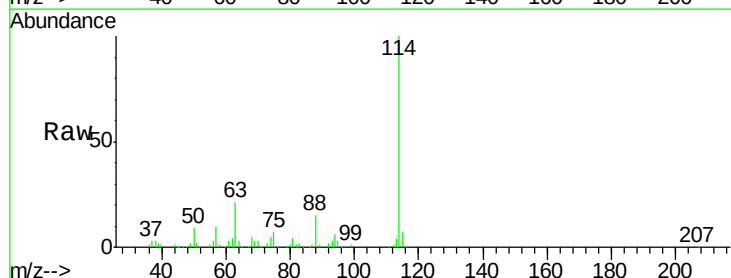
Instrument :
 MSVOA_D
 ClientSampleId :

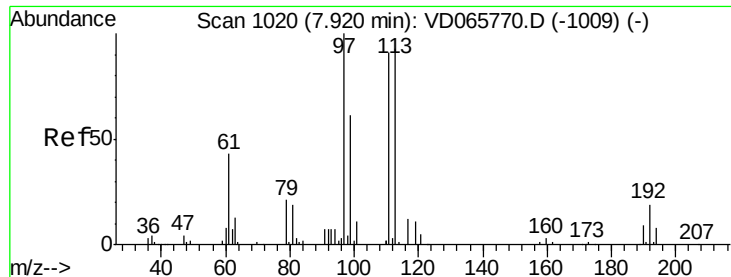
Tot Ion: 65 Resp: 87650
 Ion Ratio Lower Upper
 65 100
 67 50.5 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065791.D
 Acq: 12 Jun 2020 12:50

Tgt Ion: 114 Resp: 230709
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 41.8
 88 15.1 0.0 32.0





#35

Dibromofluoromethane

Concen: 55.189 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD065791.D

Acq: 12 Jun 2020 12:50

Instrument :
MSVOA_D
ClientSampleId :

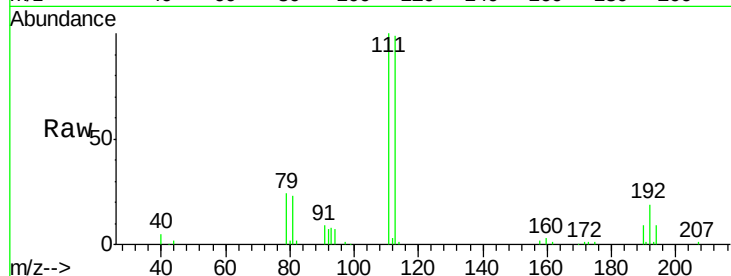
Tot Ion:113 Resp: 80426

Ion Ratio Lower Upper

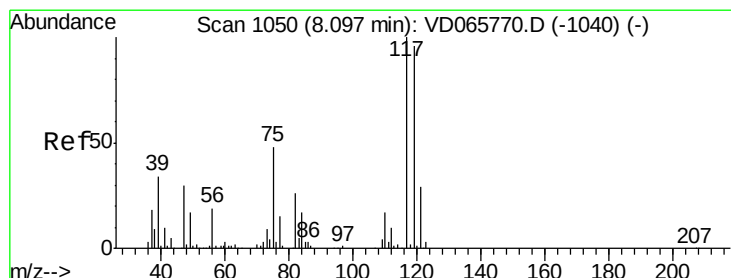
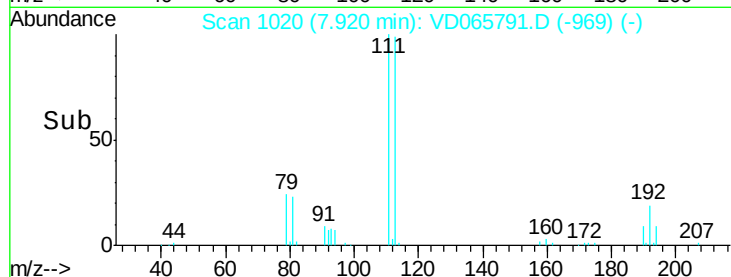
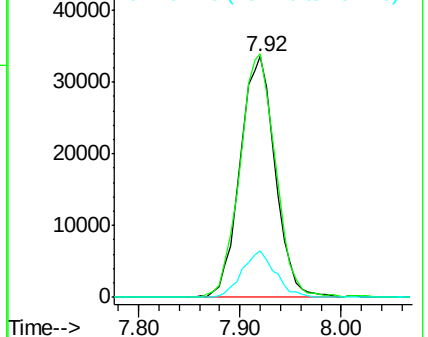
113 100

111 102.9 83.4 125.0

192 18.4 15.7 23.5



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



#38

Carbon Tetrachloride

Concen: 6.153 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD065791.D

Acq: 12 Jun 2020 12:50

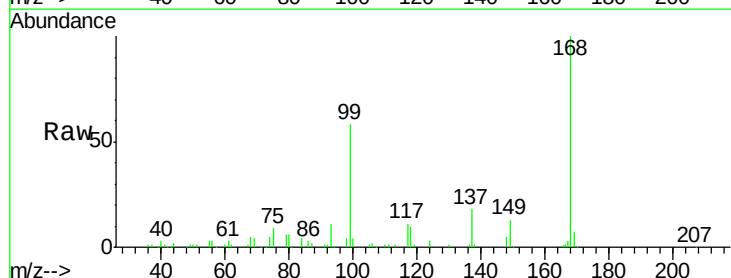
Tgt Ion:117 Resp: 14311

Ion Ratio Lower Upper

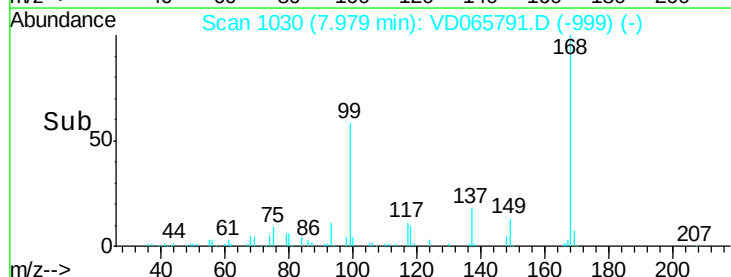
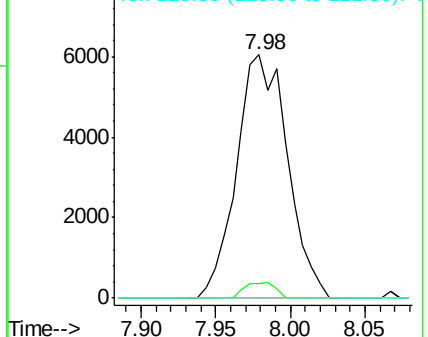
117 100

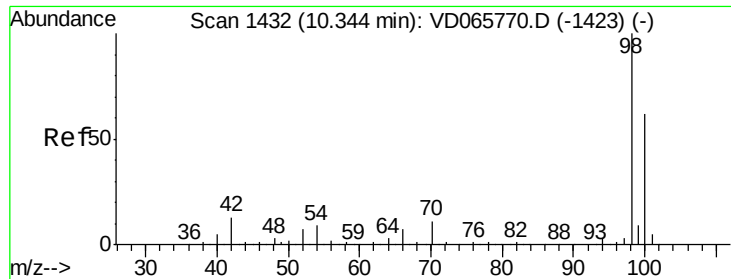
119 5.7 76.8 115.2#

121 0.0 23.4 35.2#



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





#50

Toluene-d8

Concen: 46.016 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD065791.D

Acq: 12 Jun 2020 12:50

Instrument :

MSVOA_D

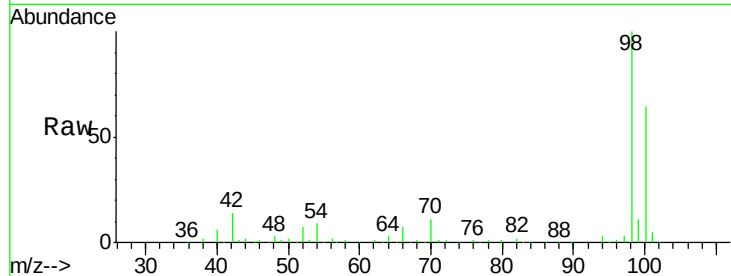
ClientSampleId :

Tot Ion: 98 Resp: 250056

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

150000

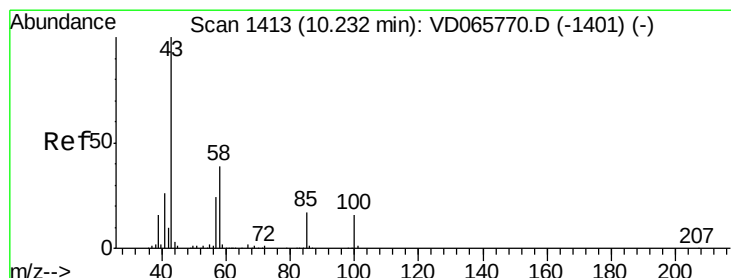
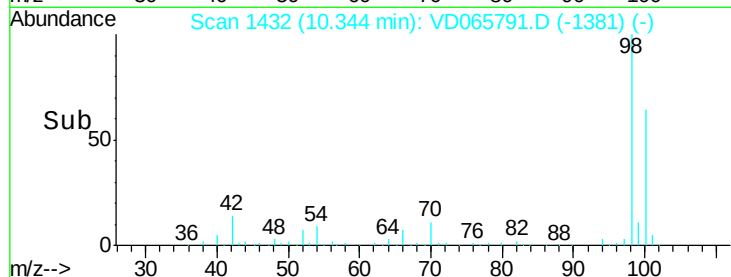
100000

50000

0

10.30 10.40

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.070 ug/l

RT: 10.23 min Scan# 1412

Delta R.T. -0.01 min

Lab File: VD065791.D

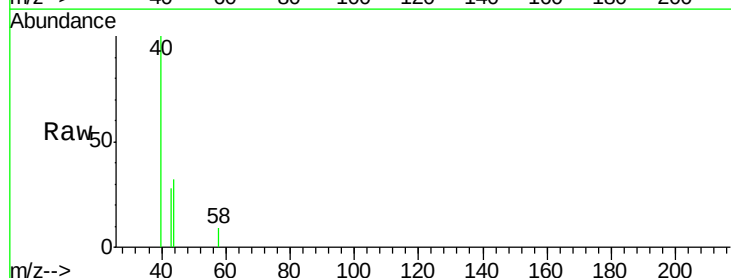
Acq: 12 Jun 2020 12:50

Tgt Ion: 43 Resp: 908

Ion Ratio Lower Upper

43 100

58 12.6 30.7 46.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.23

500

400

300

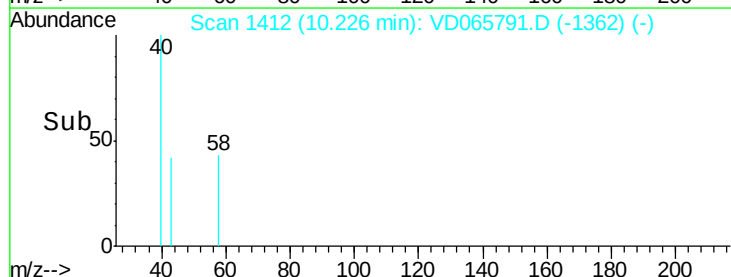
200

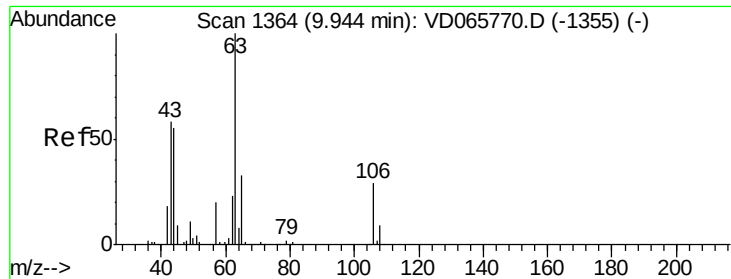
100

0

10.20 10.25

Time-->

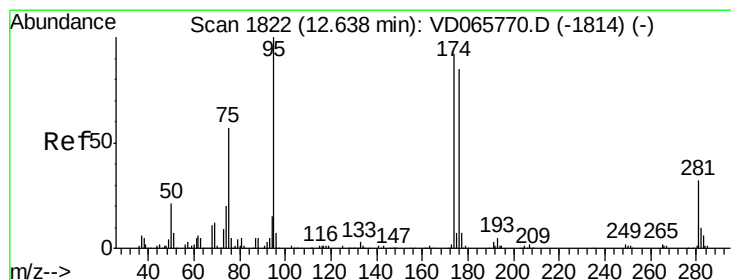
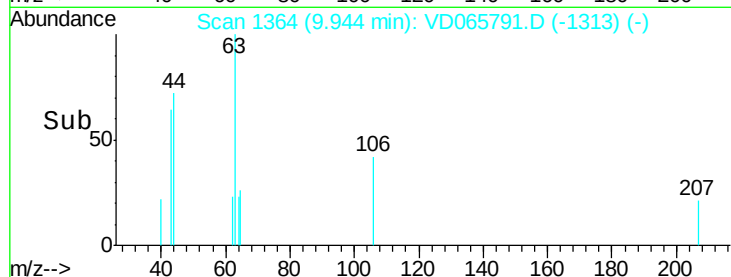
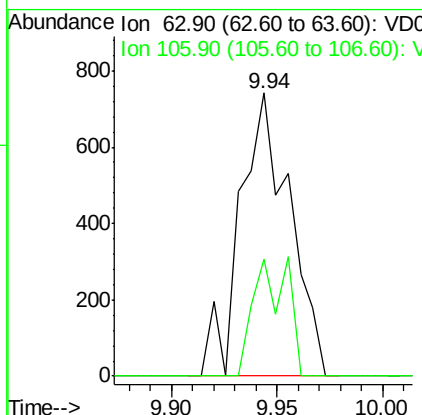
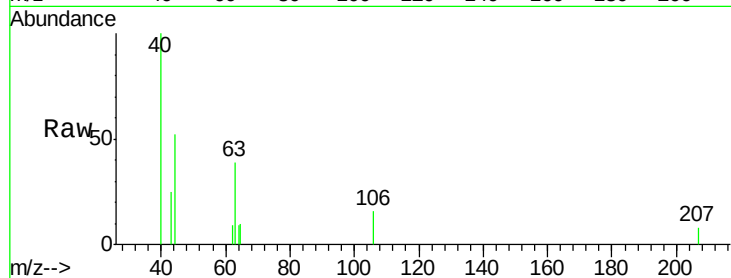




#58
 2-Chloroethyl Vinyl ether
 Concen: 2.001 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VD065791.D
 Acq: 12 Jun 2020 12:50

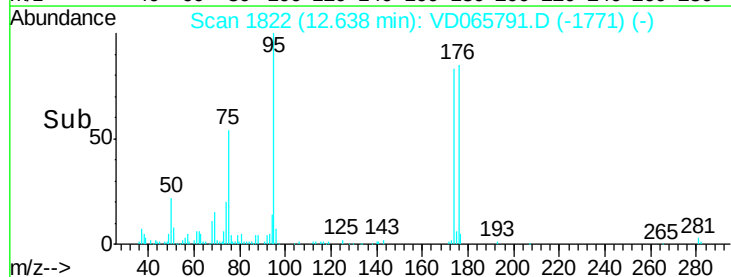
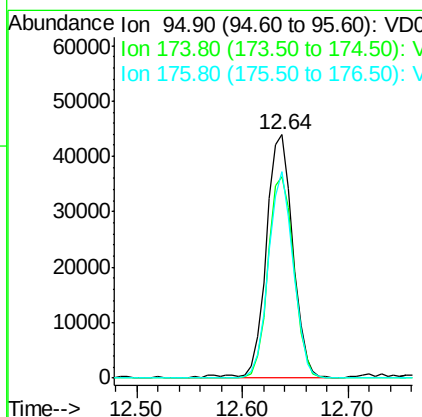
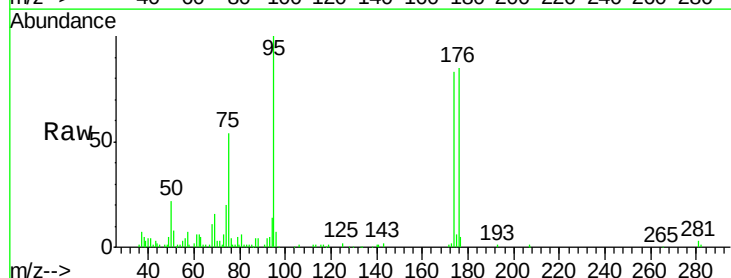
Instrument :
 MSVOA_D
 ClientSampleId :

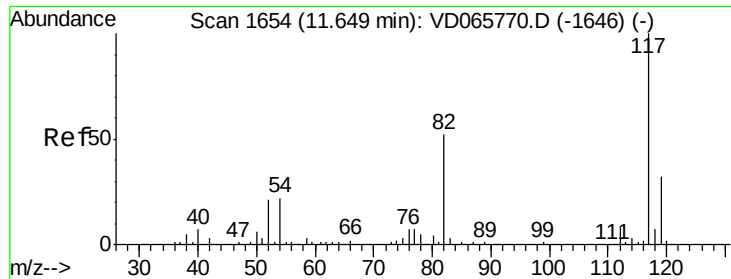
Tot Ion: 63 Resp: 1204
 Ion Ratio Lower Upper
 63 100
 106 28.3 23.2 34.8



#62
 4-Bromofluorobenzene
 Concen: 41.488 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.00 min
 Lab File: VD065791.D
 Acq: 12 Jun 2020 12:50

Tgt Ion: 95 Resp: 76457
 Ion Ratio Lower Upper
 95 100
 174 79.7 0.0 175.2
 176 78.6 0.0 163.0

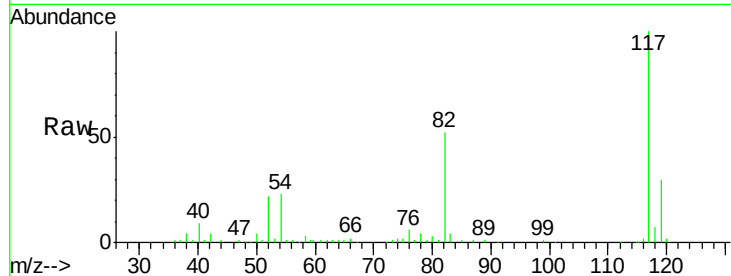




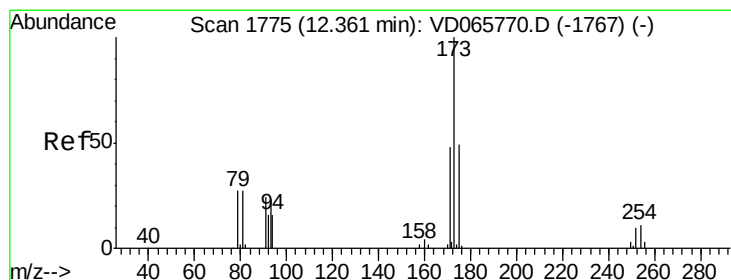
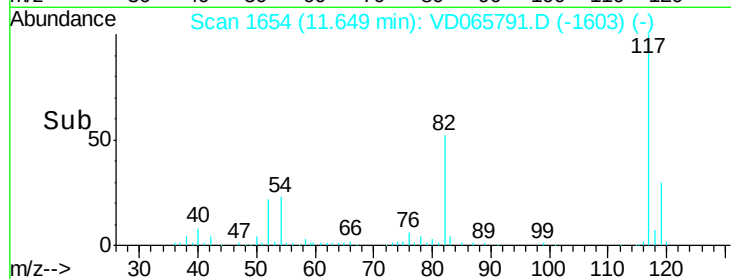
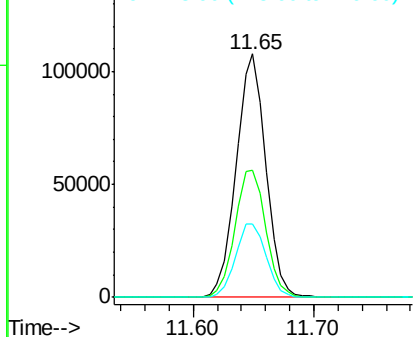
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065791.D
Acq: 12 Jun 2020 12:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 184612
Ion Ratio Lower Upper
117 100
82 52.3 41.9 62.9
119 30.1 25.3 37.9

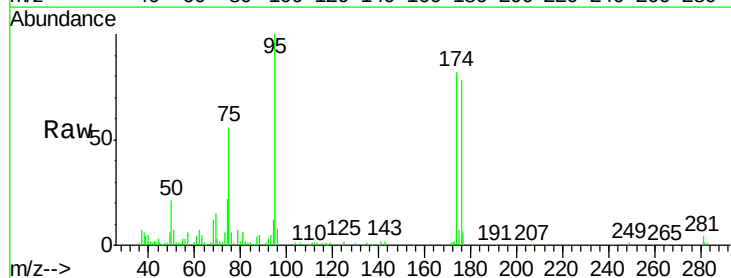


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

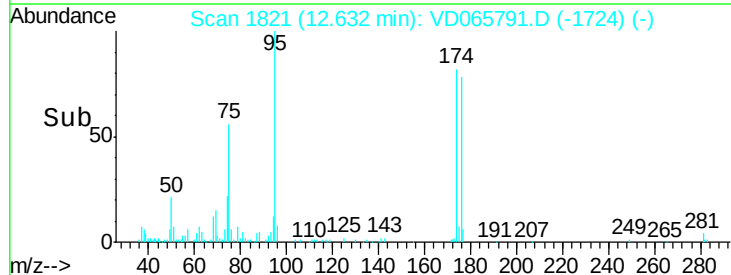
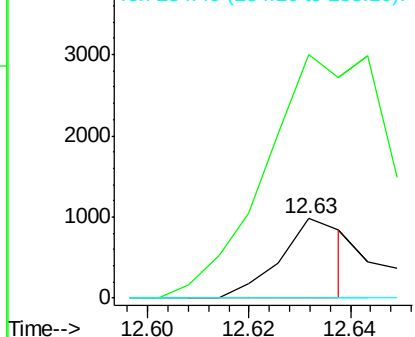


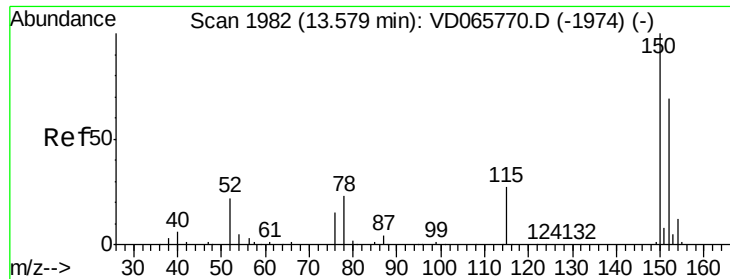
#71
Bromoform
Concen: 1.160 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.27 min
Lab File: VD065791.D
Acq: 12 Jun 2020 12:50

Tgt Ion:173 Resp: 858
Ion Ratio Lower Upper
173 100
175 389.0 24.8 74.4#
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: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD065791.D

Acq: 12 Jun 2020 12:50

Instrument :

MSVOA_D

ClientSampleId :

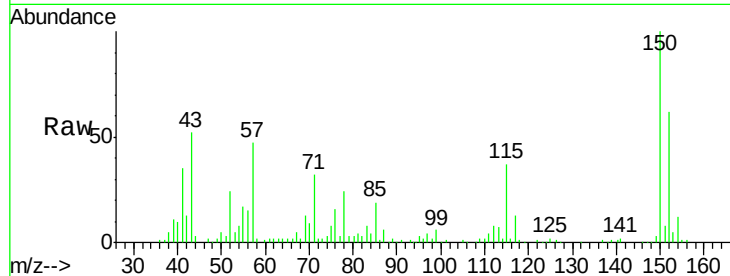
Tot Ion:152 Resp: 73883

Ion Ratio Lower Upper

152 100

115 62.0 28.7 86.1

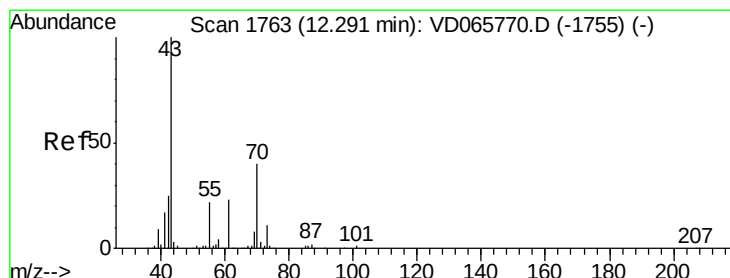
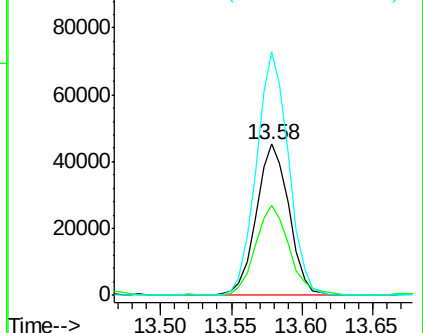
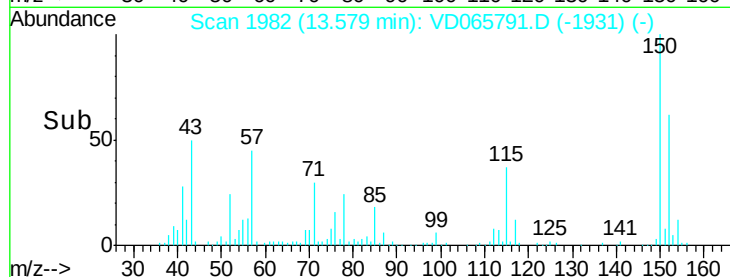
150 157.6 0.0 348.0



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: 2.657 ug/l

RT: 12.27 min Scan# 1759

Delta R.T. -0.02 min

Lab File: VD065791.D

Acq: 12 Jun 2020 12:50

Tgt Ion: 43 Resp: 2928

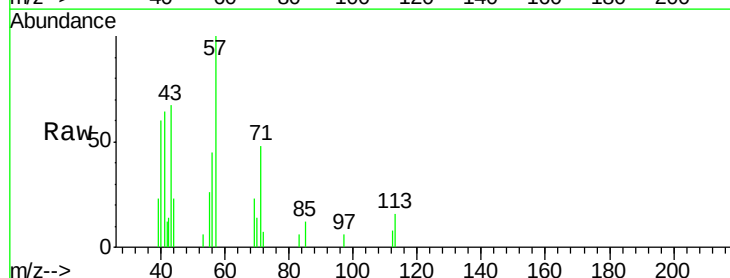
Ion Ratio Lower Upper

43 100

70 28.1 32.3 48.5#

55 37.1 19.0 28.4#

61 0.0 19.0 28.4#

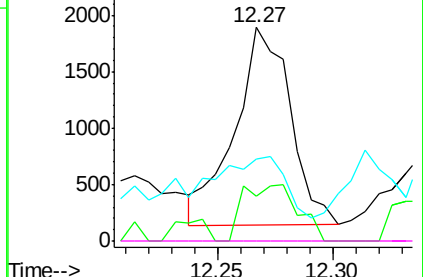
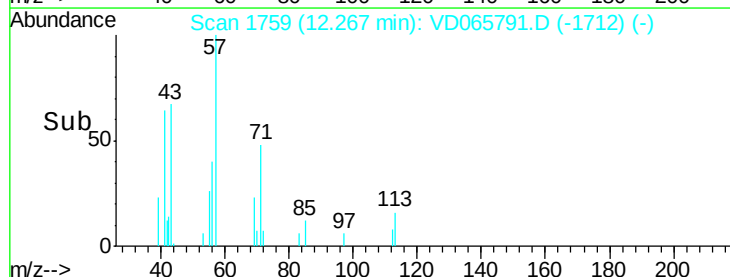


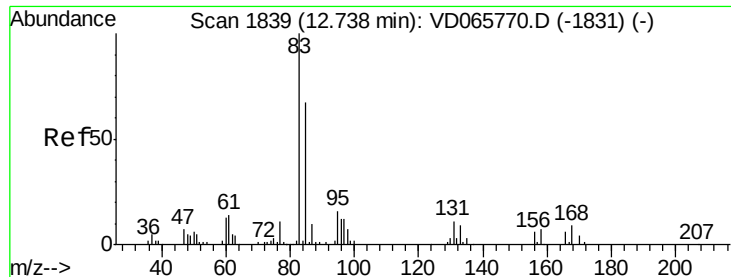
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 2.064 ug/l

RT: 12.80 min Scan# 1850

Delta R.T. 0.06 min

Lab File: VD065791.D

Acq: 12 Jun 2020 12:50

Instrument :

MSVOA_D

ClientSampleId :

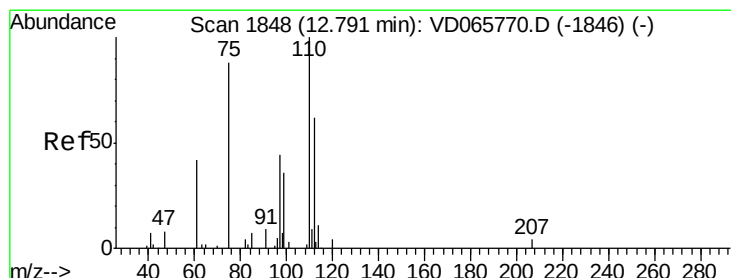
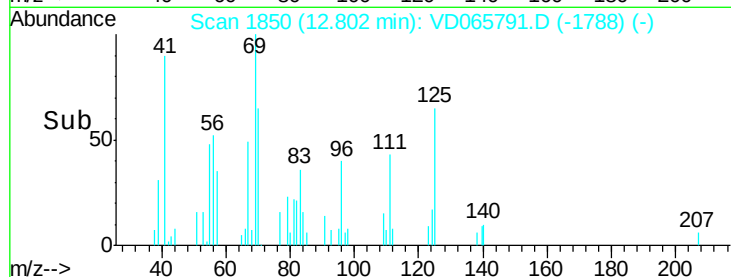
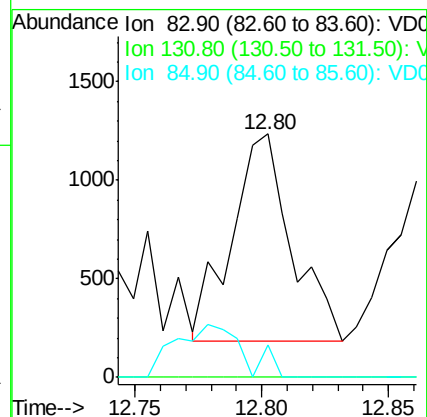
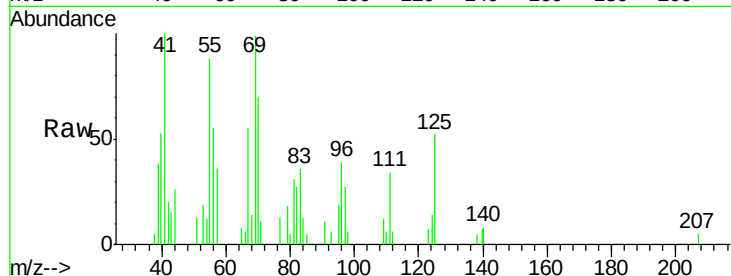
Tot Ion: 83 Resp: 1727

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.4#

85 0.0 32.5 97.5#



#76

1,2,3-Trichloropropane

Concen: 69.941 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.16 min

Lab File: VD065791.D

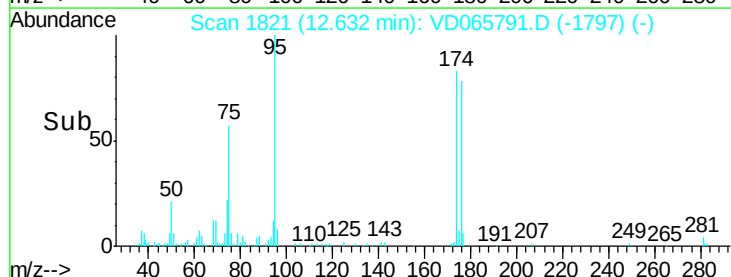
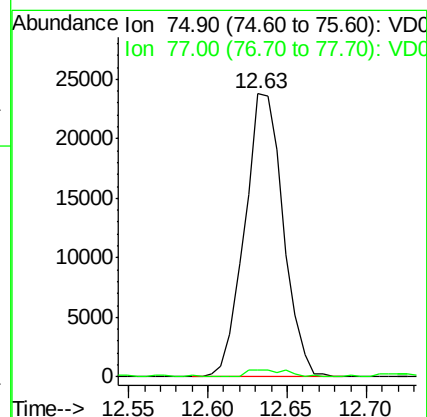
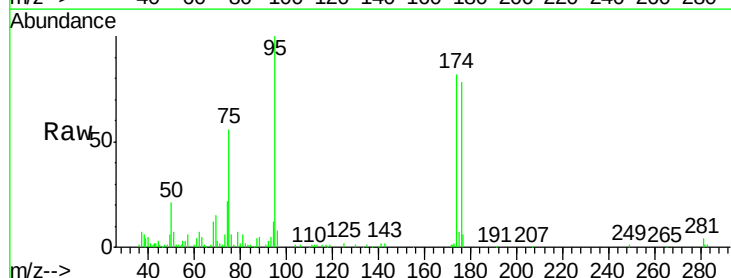
Acq: 12 Jun 2020 12:50

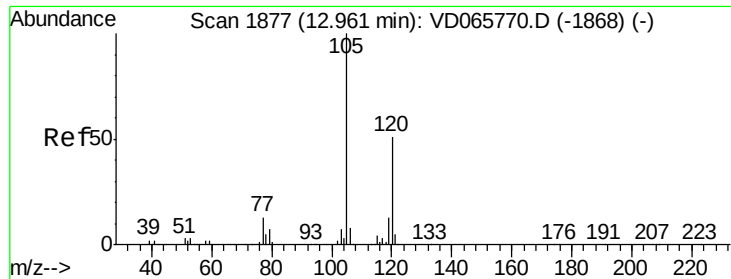
Tgt Ion: 75 Resp: 40188

Ion Ratio Lower Upper

75 100

77 2.8 0.0 0.0#

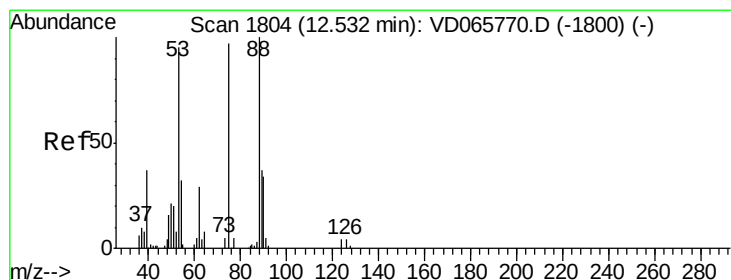
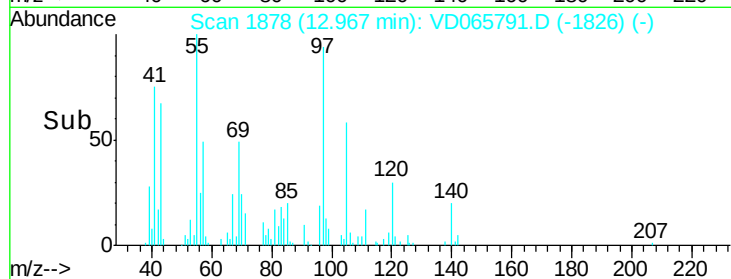
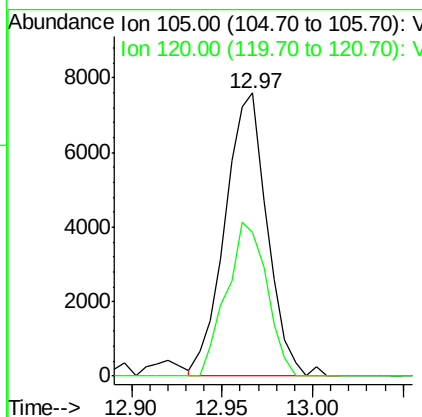
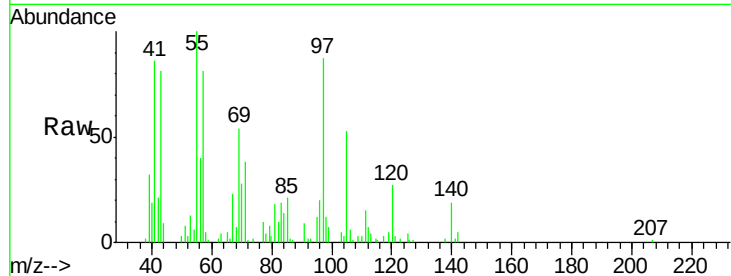




#80
 1,3,5-Trimethylbenzene
 Concen: 2.975 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. 0.01 min
 Lab File: VD065791.D
 Acq: 12 Jun 2020 12:50

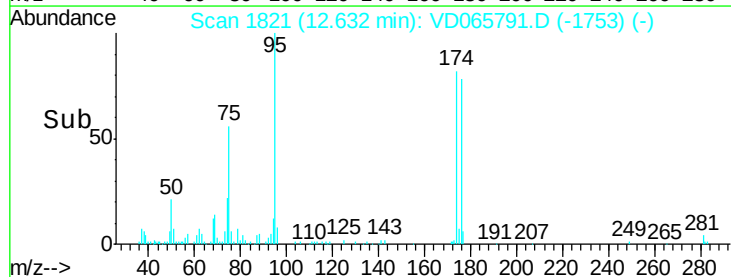
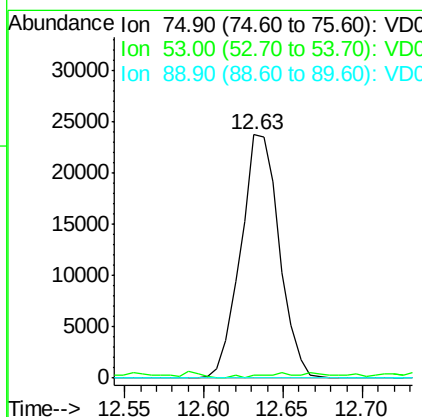
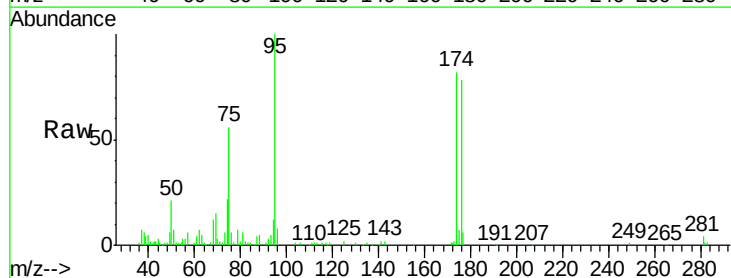
Instrument :
 MSVOA_D
 ClientSampleId :

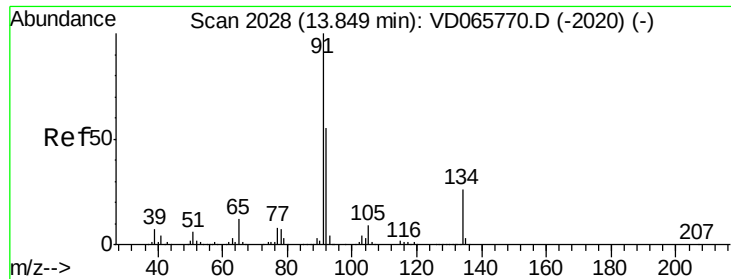
Tot Ion:105 Resp: 12264
 Ion Ratio Lower Upper
 105 100
 120 51.8 25.4 76.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 151.116 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. 0.10 min
 Lab File: VD065791.D
 Acq: 12 Jun 2020 12:50

Tgt Ion: 75 Resp: 40188
 Ion Ratio Lower Upper
 75 100
 53 0.3 82.6 123.8#
 89 0.0 35.9 53.9#

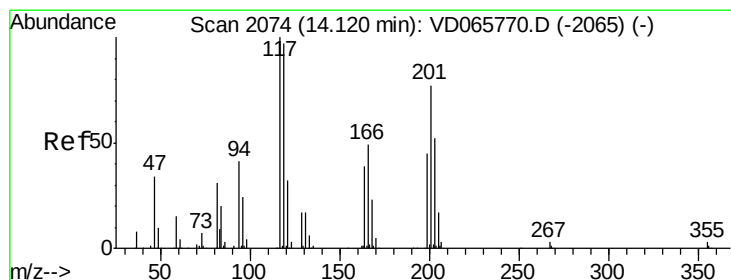
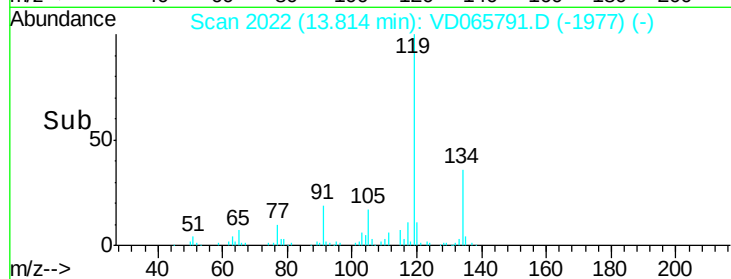
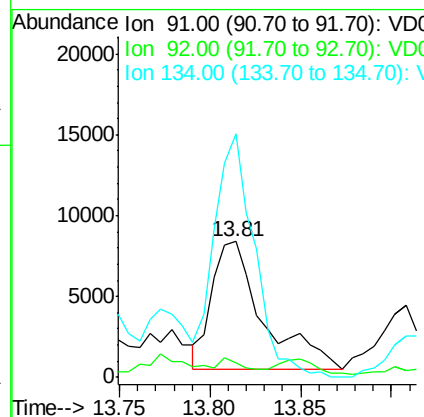
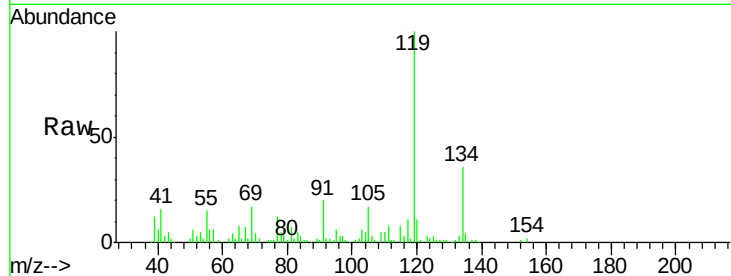




#89
n-Butylbenzene
Concen: 3.595 ug/l
RT: 13.81 min Scan# 2022
Delta R.T. -0.04 min
Lab File: VD065791.D
Acq: 12 Jun 2020 12:50

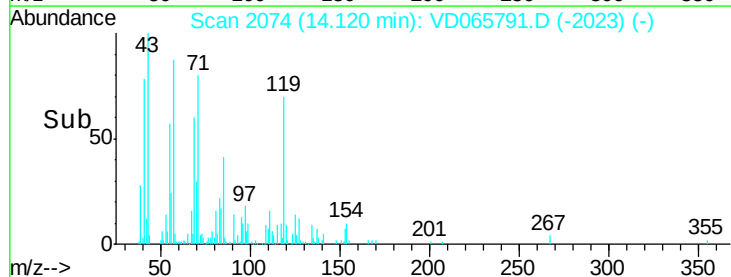
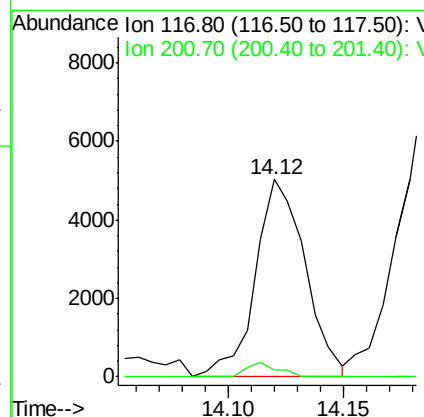
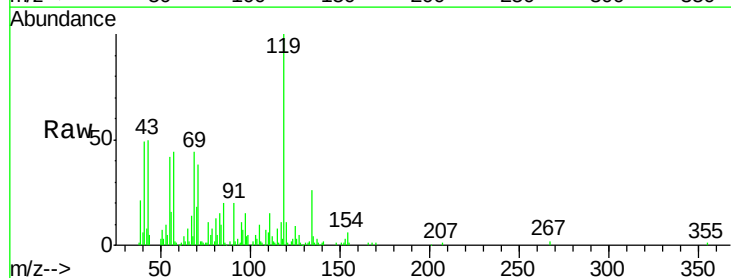
Instrument :
MSVOA_D
ClientSampled :

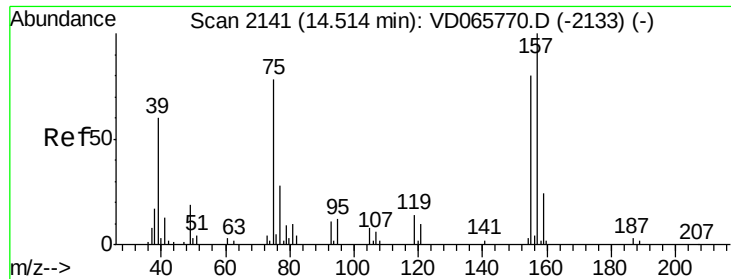
Tot Ion: 91 Resp: 15642
Ion Ratio Lower Upper
91 100
92 4.8 27.0 81.0#
134 149.0 13.0 39.0#



#90
Hexachloroethane
Concen: 8.284 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. -0.00 min
Lab File: VD065791.D
Acq: 12 Jun 2020 12:50

Tgt Ion: 117 Resp: 7565
Ion Ratio Lower Upper
117 100
201 4.5 37.1 111.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: 5.566 ug/l

RT: 14.53 min Scan# 2144

Delta R.T. 0.02 min

Lab File: VD065791.D

Acq: 12 Jun 2020 12:50

Instrument :

MSVOA_D

ClientSampleId :

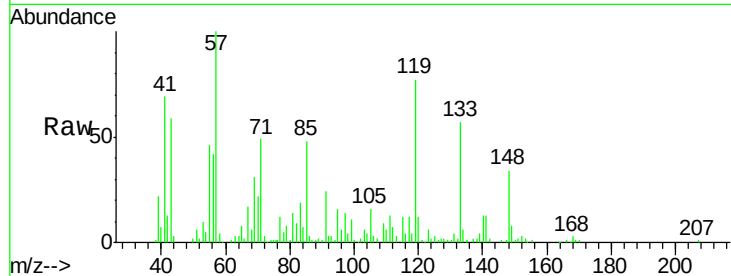
Tot Ion: 75 Resp: 775

Ion Ratio Lower Upper

75 100

155 132.4 46.3 138.9

157 0.0 58.1 174.3#



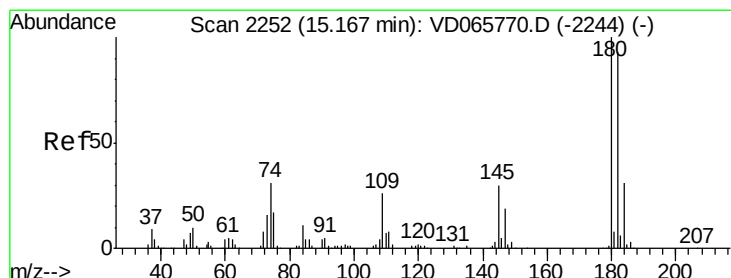
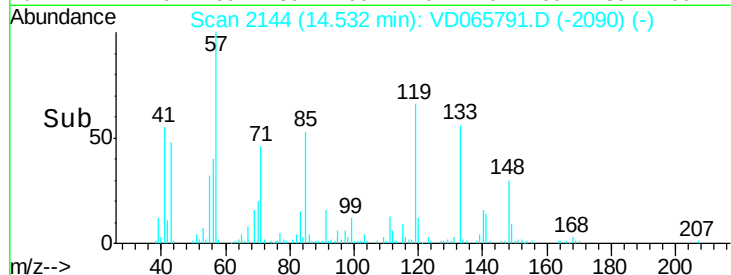
Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

Time-->

14.50 14.52 14.54 14.56



#93

1,2,4-Trichlorobenzene

Concen: 1.600 ug/l

RT: 15.17 min Scan# 2252

Delta R.T. -0.00 min

Lab File: VD065791.D

Acq: 12 Jun 2020 12:50

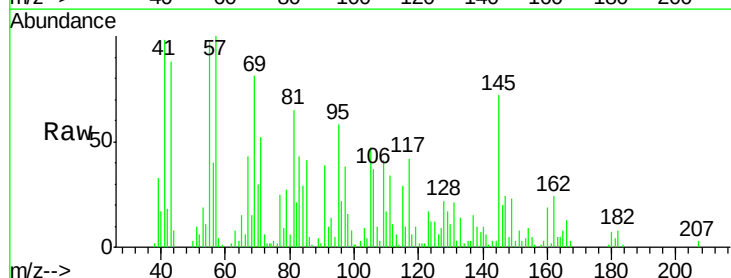
Tgt Ion: 180 Resp: 2164

Ion Ratio Lower Upper

180 100

182 153.7 48.0 144.2#

145 1470.9 14.9 44.9#



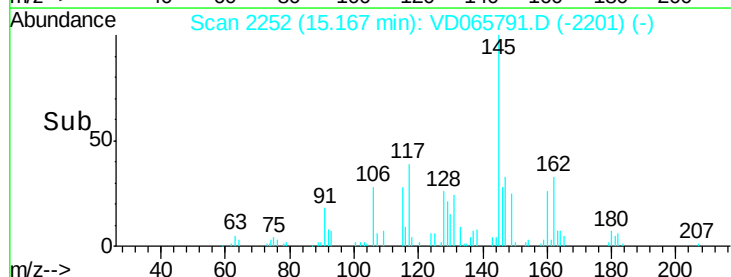
Abundance Ion 179.80 (179.50 to 180.50): V

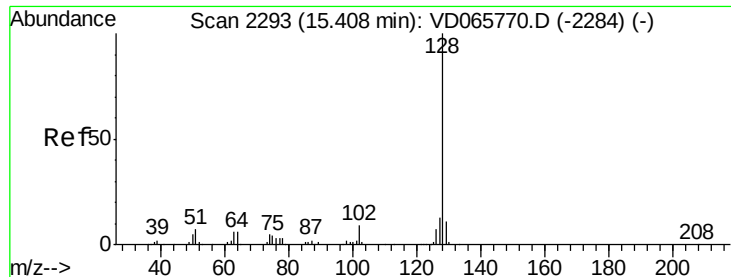
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

Time-->

15.15 15.20

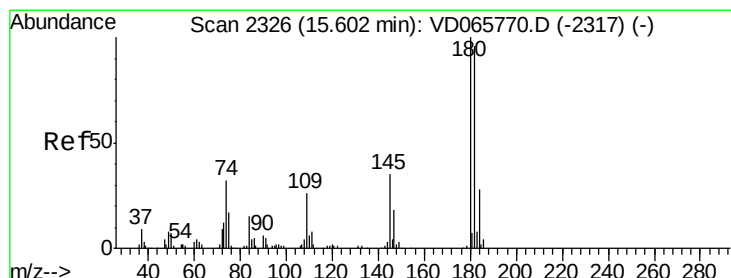
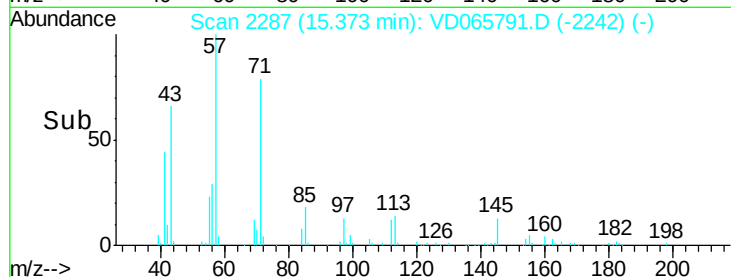
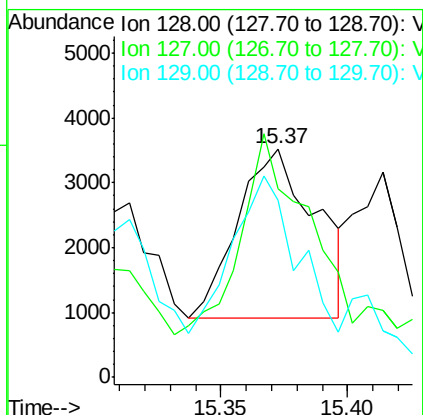
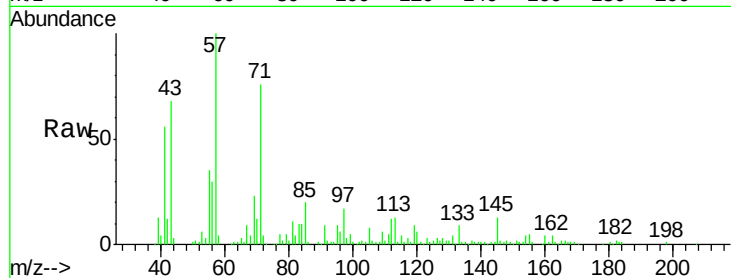




#95
Naphthalene
Concen: 2.436 ug/l
RT: 15.37 min Scan# 2287
Delta R.T. -0.04 min
Lab File: VD065791.D
Acq: 12 Jun 2020 12:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 5580
Ion Ratio Lower Upper
128 100
127 104.6 10.7 16.1#
129 74.4 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 3.020 ug/l
RT: 15.62 min Scan# 2329
Delta R.T. 0.02 min
Lab File: VD065791.D
Acq: 12 Jun 2020 12:50

Tgt Ion:180 Resp: 3517
Ion Ratio Lower Upper
180 100
182 0.0 47.0 141.2#
145 0.0 16.2 48.6#

