

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062320\
 Data File : VD065852.D
 Acq On : 23 Jun 2020 11:28
 Operator : VA/SY
 Sample : VD0623SBL01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0623SBL01

Quant Time: Jun 24 04:38:01 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	186308	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	303612	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	266892	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	117843	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	107697	58.50	ug/l	0.00
Spiked Amount			Recovery	=	117.00%	
35) Dibromofluoromethane	7.91	113	104853	54.67	ug/l	0.00
Spiked Amount			Recovery	=	109.34%	
50) Toluene-d8	10.34	98	385147	53.86	ug/l	0.00
Spiked Amount			Recovery	=	107.72%	
62) 4-Bromofluorobenzene	12.64	95	121997	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	

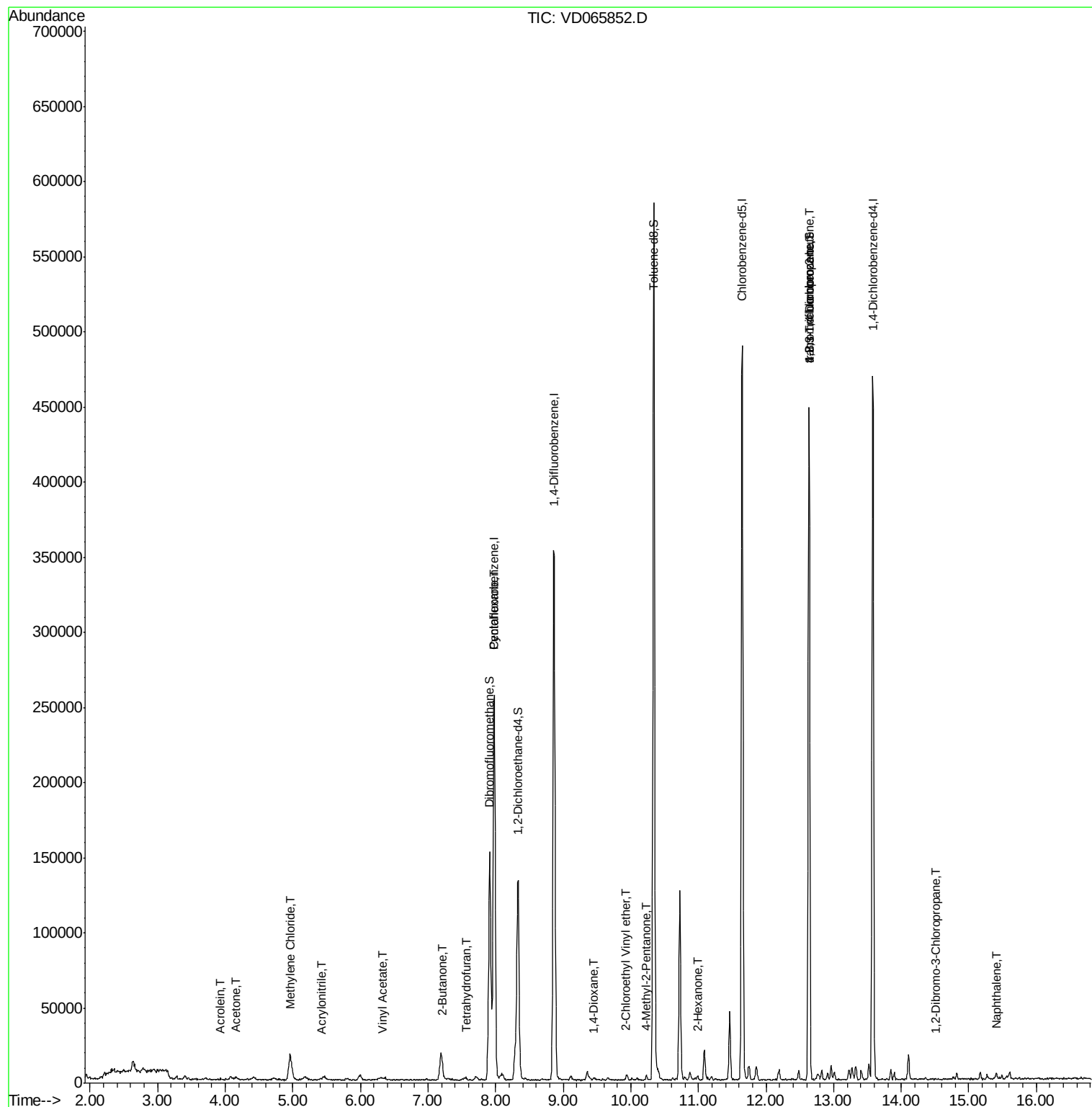
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	762	Below Cal		85
3) Chloromethane	2.21	50	1217	Below Cal	#	81
11) Tert butyl alcohol	5.19	59	2665	Below Cal	#	74
13) Acrolein	3.92	56	204	1.973	ug/l #	63
15) Acrylonitrile	5.42	53	783	2.106	ug/l #	62
16) Acetone	4.16	43	2681	7.720	ug/l #	82
18) Methyl Acetate	4.71	43	1068	Below Cal	#	52
20) Methylene Chloride	4.96	84	12615	2.624	ug/l #	78
23) Vinyl Acetate	6.31	43	3664	1.148	ug/l #	72
25) 2-Butanone	7.21	43	2679	5.586	ug/l #	52
29) Tetrahydrofuran	7.57	42	507	1.673	ug/l #	73
31) Cyclohexane	7.97	56	6665	2.019	ug/l #	51
49) 1,4-Dioxane	9.46	88	60	5.203	ug/l #	54
51) 4-Methyl-2-Pentanone	10.23	43	2539	2.275	ug/l	92
58) 2-Chloroethyl Vinyl ether	9.94	63	1474	1.862	ug/l	90
59) 2-Hexanone	10.99	43	1549	2.058	ug/l	90
76) 1,2,3-Trichloropropane	12.64	75	66071	72.092	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	66071	155.764	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.51	75	242	1.090	ug/l #	1
95) Naphthalene	15.41	128	3740	1.024	ug/l #	96

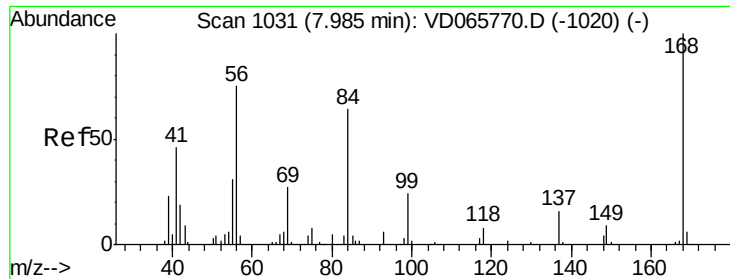
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062320\
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Acq On : 23 Jun 2020 11:28
Operator : VA/SY
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Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 3 Sample Multiplier: 1

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Quant Time: Jun 24 04:38:01 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# 1030

Delta R.T. -0.01 min

Lab File: VD065852.D

Acq: 23 Jun 2020 11:28

Instrument :

MSVOA_D

ClientSampleId :

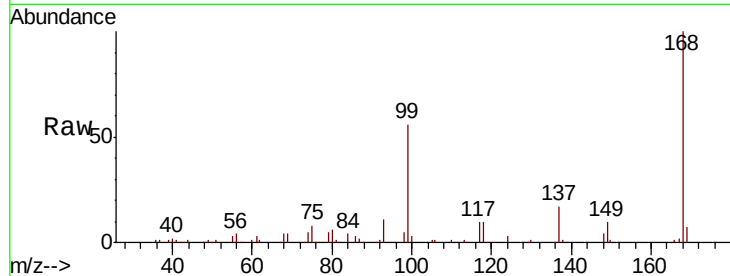
VD0623SBL01

Tot Ion:168 Resp: 186308

Ion Ratio Lower Upper

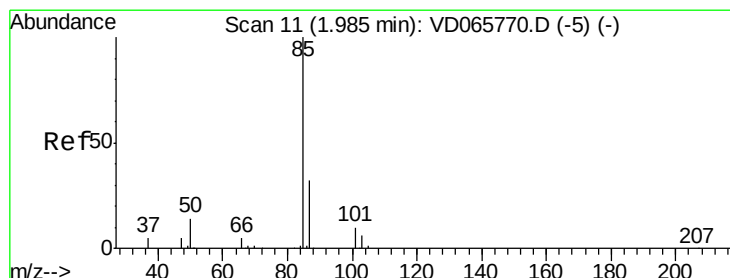
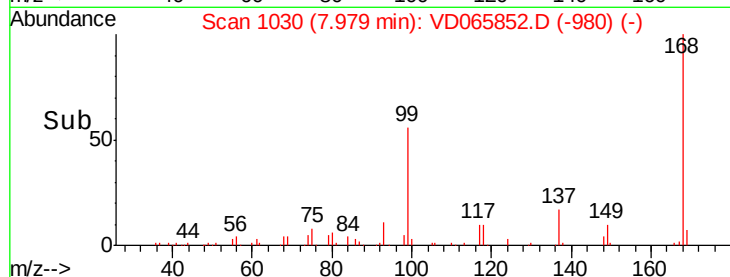
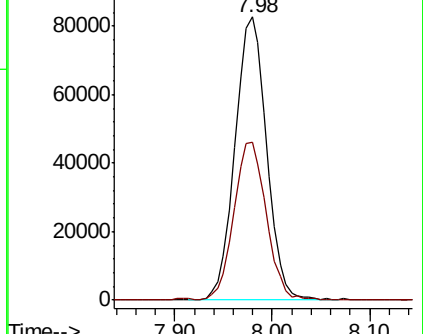
168 100

99 55.4 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: VD065852.D

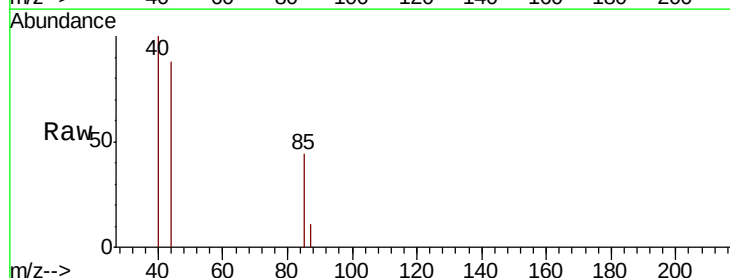
Acq: 23 Jun 2020 11:28

Tgt Ion: 85 Resp: 762

Ion Ratio Lower Upper

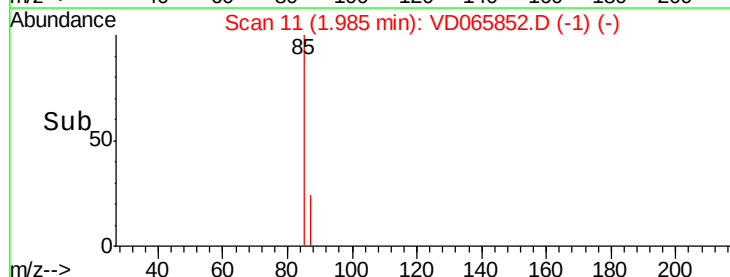
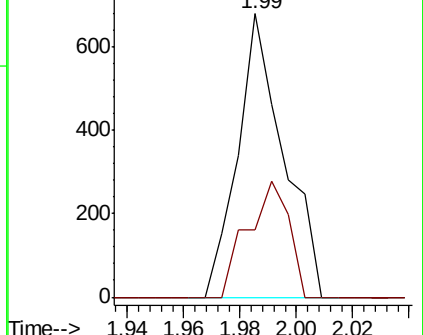
85 100

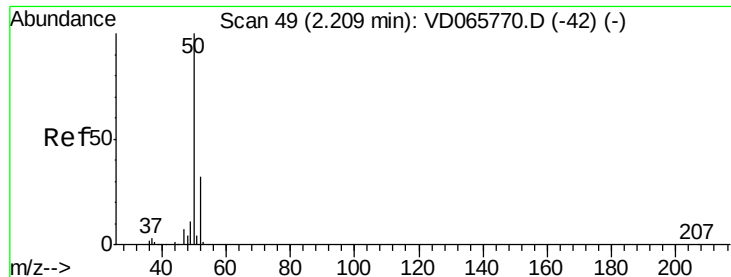
87 23.9 16.2 48.5



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# 50

Delta R.T. 0.01 min

Lab File: VD065852.D

Acq: 23 Jun 2020 11:28

Instrument :

MSVOA_D

ClientSampleId :

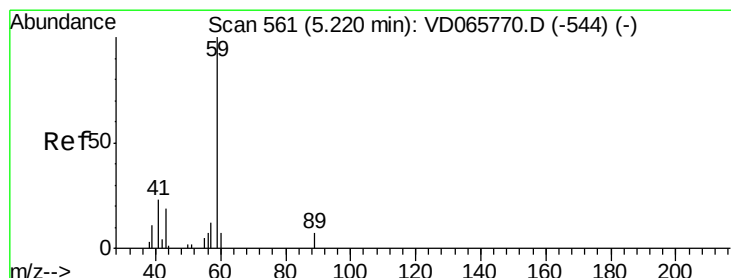
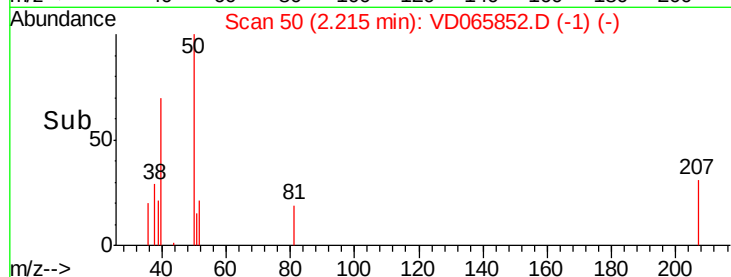
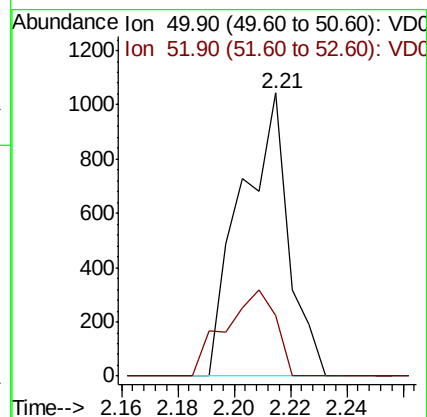
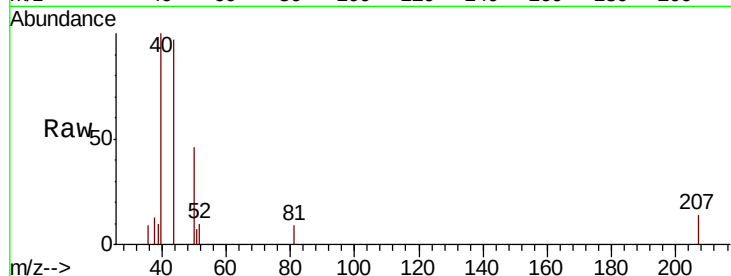
VD0623SBL01

Tot Ion: 50 Resp: 1217

Ion Ratio Lower Upper

50 100

52 21.3 25.6 38.4#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.19 min Scan# 556

Delta R.T. -0.03 min

Lab File: VD065852.D

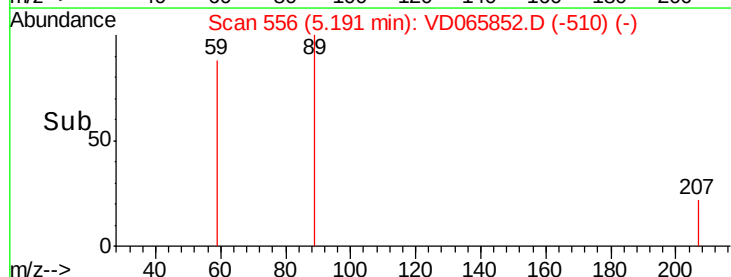
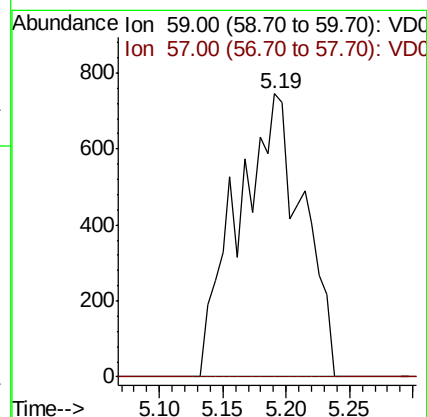
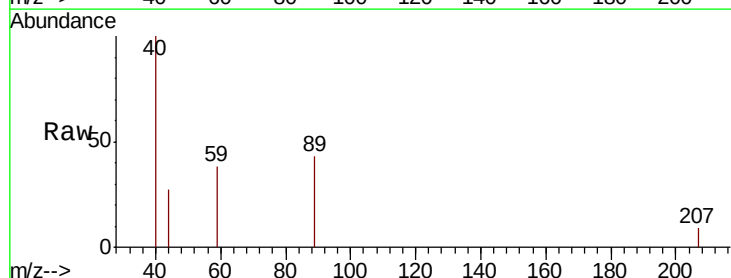
Acq: 23 Jun 2020 11:28

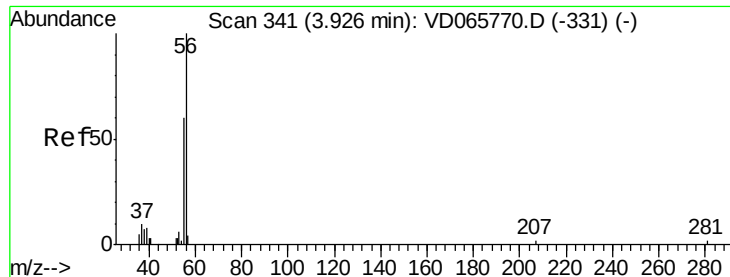
Tgt Ion: 59 Resp: 2665

Ion Ratio Lower Upper

59 100

57 0.0 7.5 11.3#





#13

Acrolein

Concen: 1.973 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD065852.D

Acq: 23 Jun 2020 11:28

Instrument :

MSVOA_D

ClientSampleId :

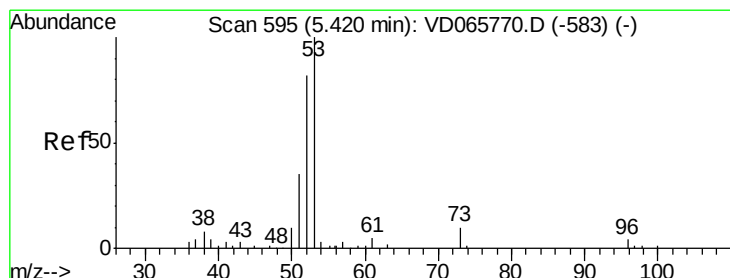
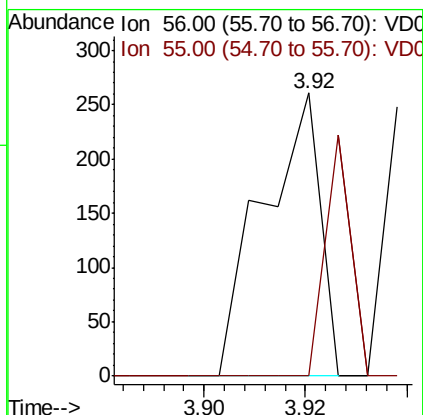
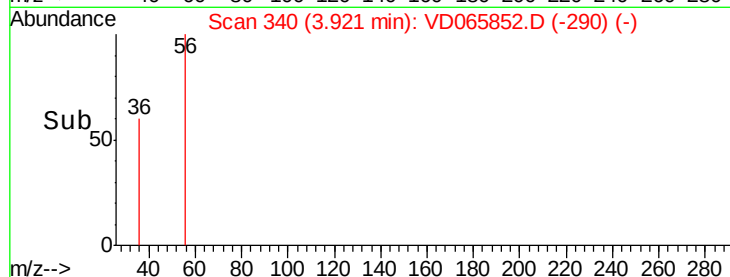
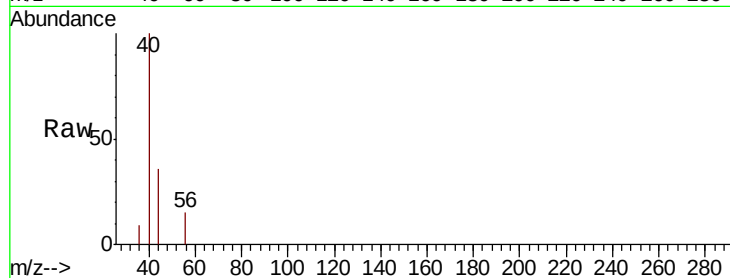
VD0623SBL01

Tot Ion: 56 Resp: 204

Ion Ratio Lower Upper

56 100

55 38.2 54.8 82.2#



#15

Acrylonitrile

Concen: 2.106 ug/l

RT: 5.42 min Scan# 595

Delta R.T. 0.00 min

Lab File: VD065852.D

Acq: 23 Jun 2020 11:28

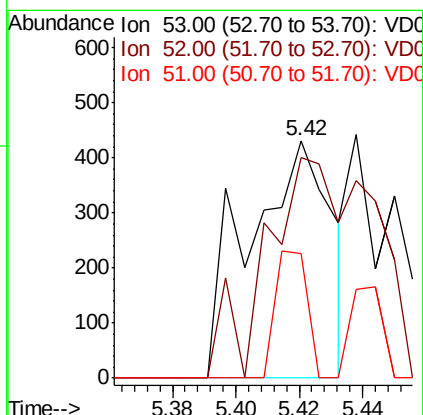
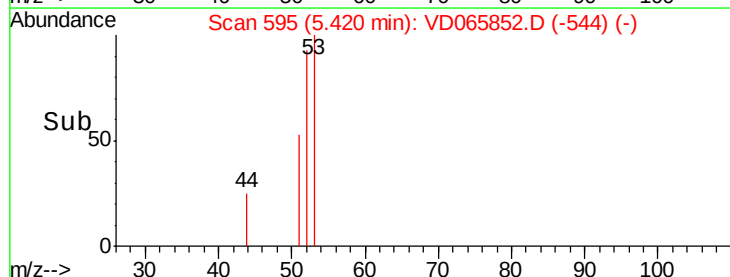
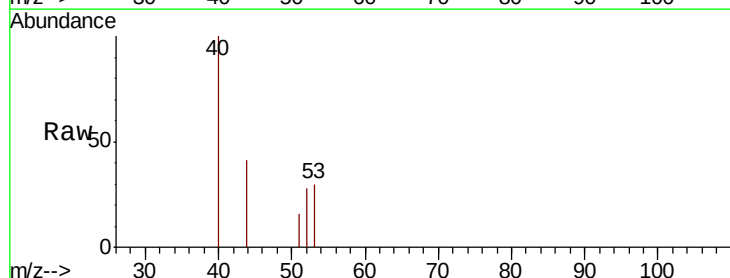
Tgt Ion: 53 Resp: 783

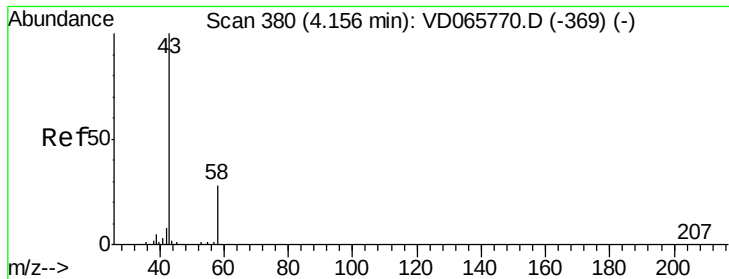
Ion Ratio Lower Upper

53 100

52 120.4 66.2 99.2#

51 20.6 30.7 46.1#





#16

Acetone

Concen: 7.720 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD065852.D

Acq: 23 Jun 2020 11:28

Instrument :

MSVOA_D

ClientSampleId :

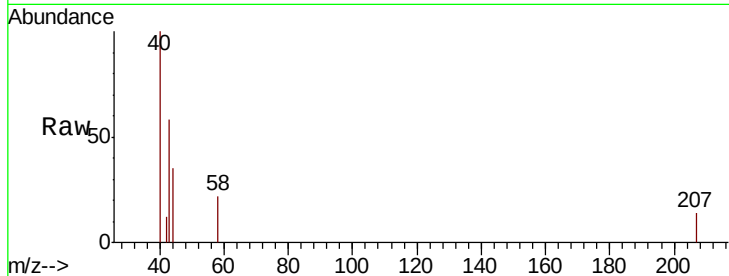
VD0623SBL01

Tot Ion: 43 Resp: 2681

Ion Ratio Lower Upper

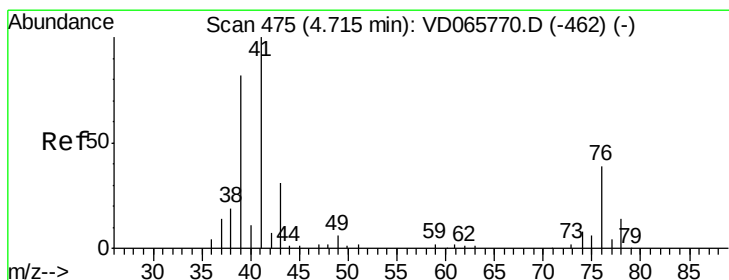
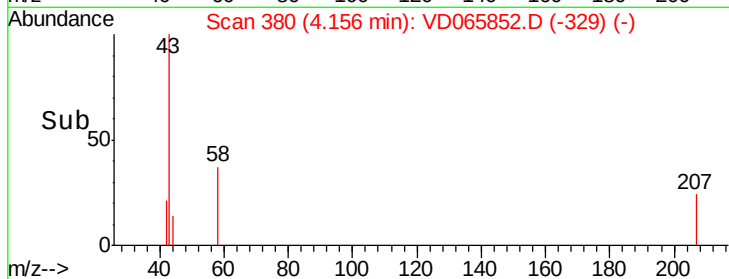
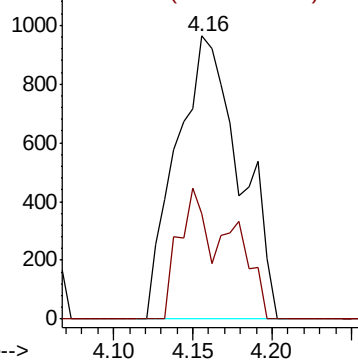
43 100

58 37.3 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: Below Cal

RT: 4.71 min Scan# 475

Delta R.T. 0.00 min

Lab File: VD065852.D

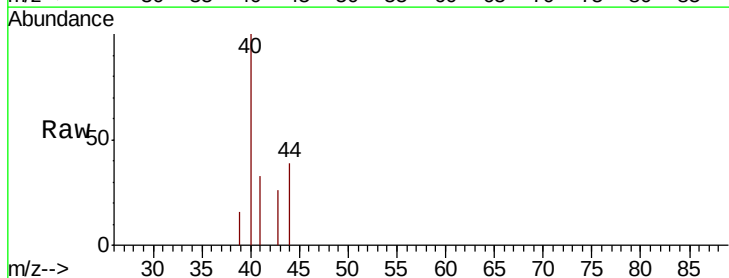
Acq: 23 Jun 2020 11:28

Tgt Ion: 43 Resp: 1068

Ion Ratio Lower Upper

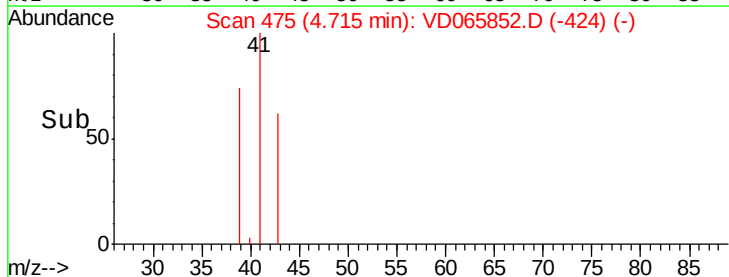
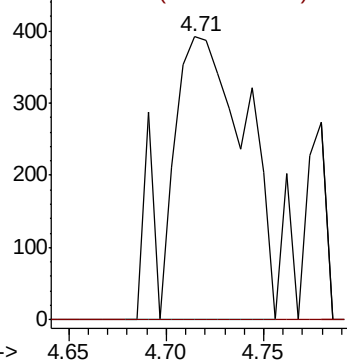
43 100

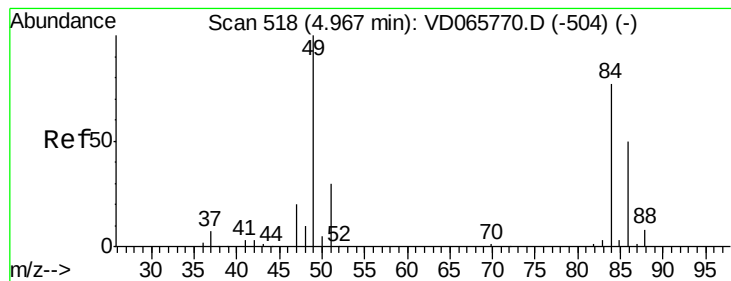
74 0.0 18.7 28.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methvlene Chloride

Concen: 2.624 ug/l

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD065852.D

Acq: 23 Jun 2020 11:28

Instrument :

MSVOA_D

ClientSampleId :

VD0623SBL01

Tot Ion: 84 Resp: 12615

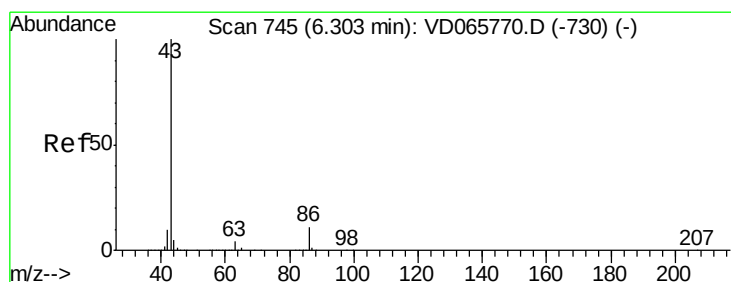
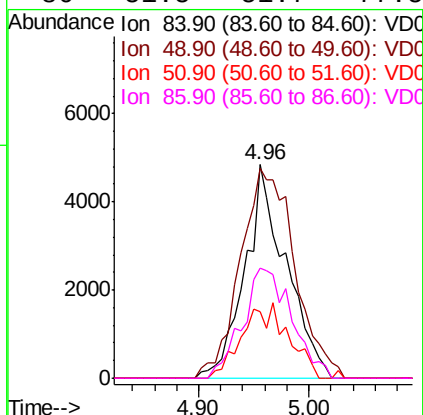
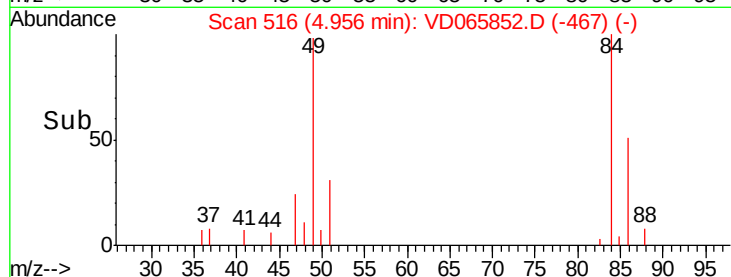
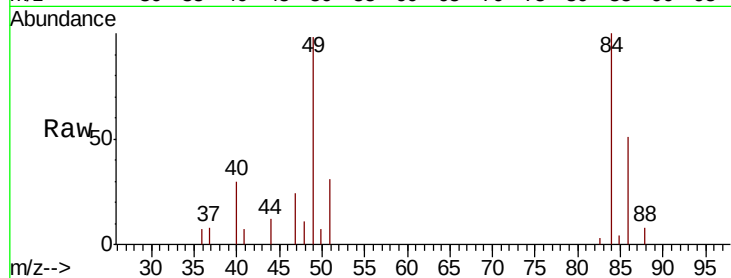
Ion Ratio Lower Upper

84 100

49 98.4 103.4 155.0#

51 31.1 31.4 47.2#

86 51.5 51.7 77.5#



#23

Vinyl Acetate

Concen: 1.148 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.01 min

Lab File: VD065852.D

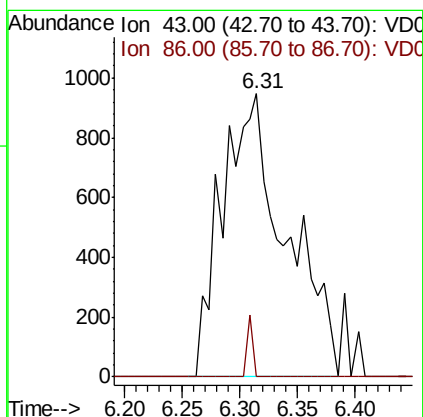
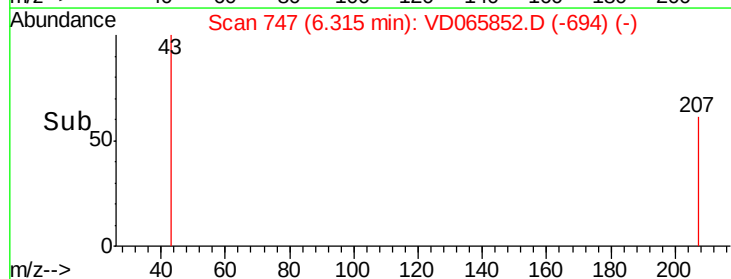
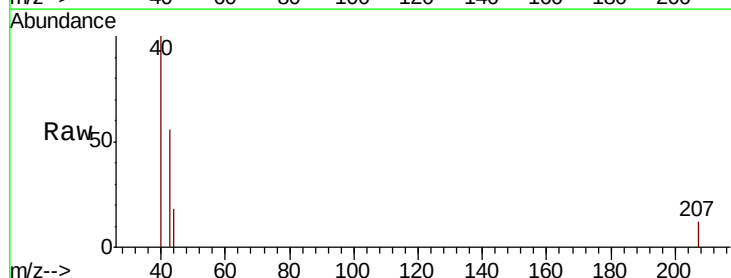
Acq: 23 Jun 2020 11:28

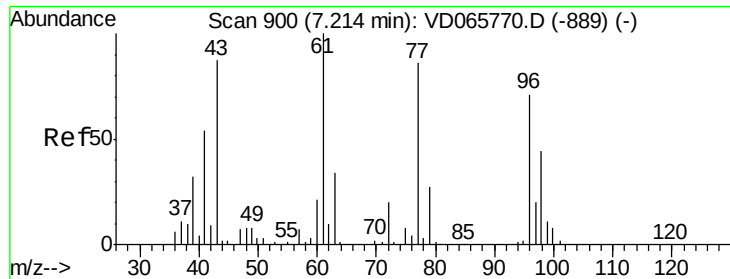
Tgt Ion: 43 Resp: 3664

Ion Ratio Lower Upper

43 100

86 0.0 8.5 12.7#





#25

2-Butanone

Concen: 5.586 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065852.D

Acq: 23 Jun 2020 11:28

Instrument :

MSVOA_D

ClientSampleId :

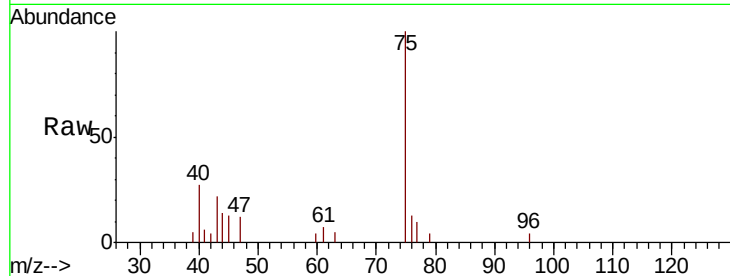
VD0623SBL01

Tot Ion: 43 Resp: 2679

Ion Ratio Lower Upper

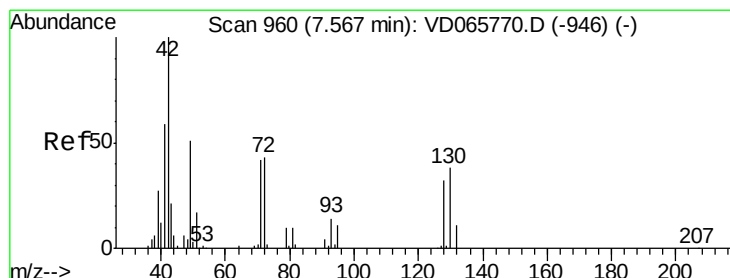
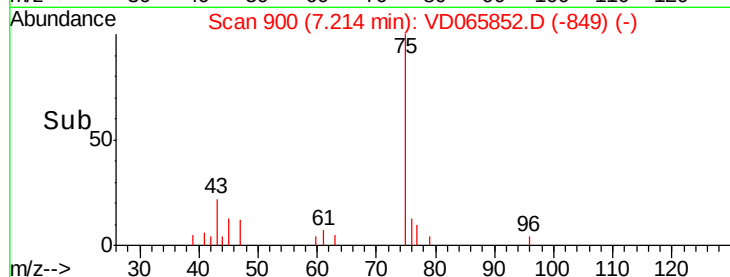
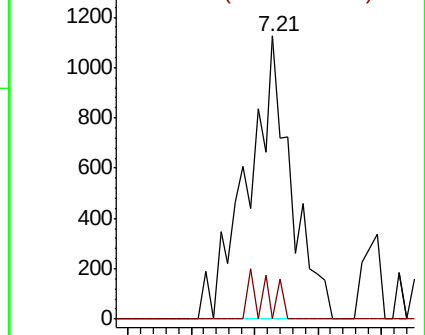
43 100

72 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.673 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.00 min

Lab File: VD065852.D

Acq: 23 Jun 2020 11:28

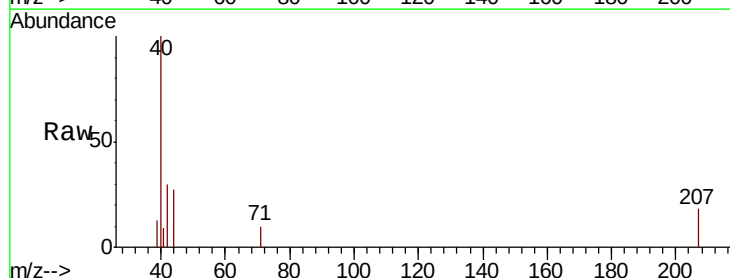
Tgt Ion: 42 Resp: 507

Ion Ratio Lower Upper

42 100

72 37.7 34.9 52.3

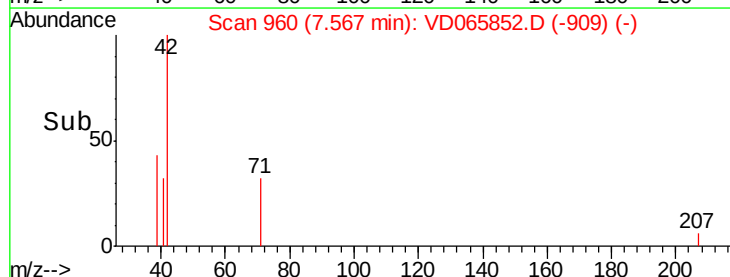
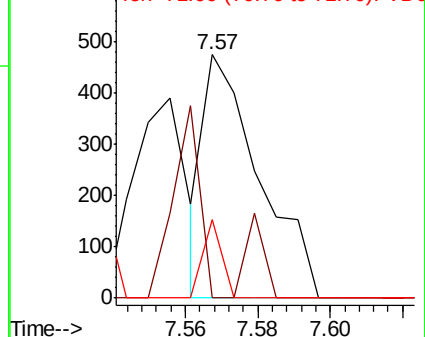
71 10.7 31.2 46.8#

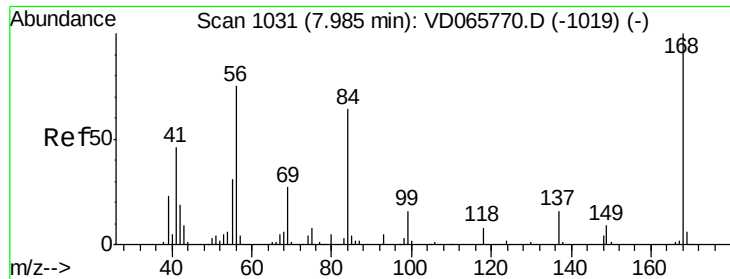


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

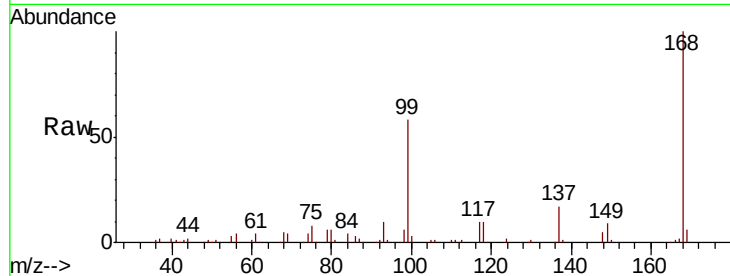




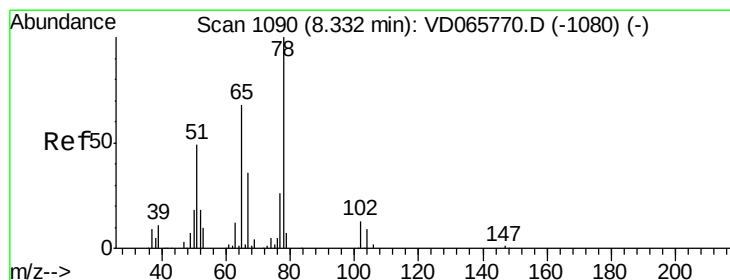
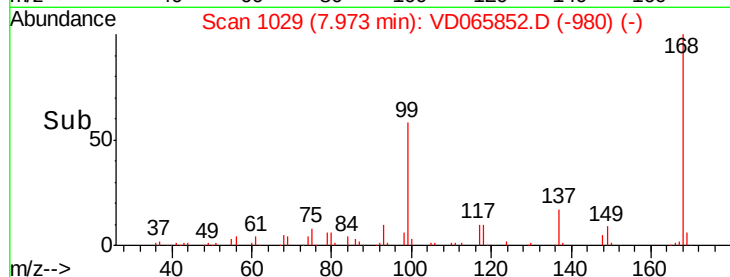
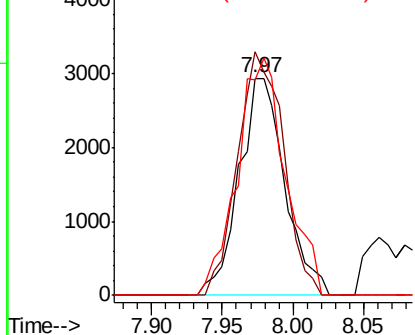
#31
Cyclohexane
Concen: 2.019 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD065852.D
Acq: 23 Jun 2020 11:28

Instrument :
MSVOA_D
ClientSampleId :
VD0623SBL01

Tot Ion: 56 Resp: 6665
Ion Ratio Lower Upper
56 100
69 112.3 28.5 42.7#
84 99.6 68.4 102.6

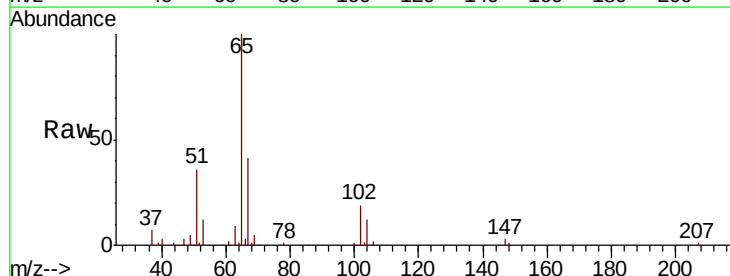


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

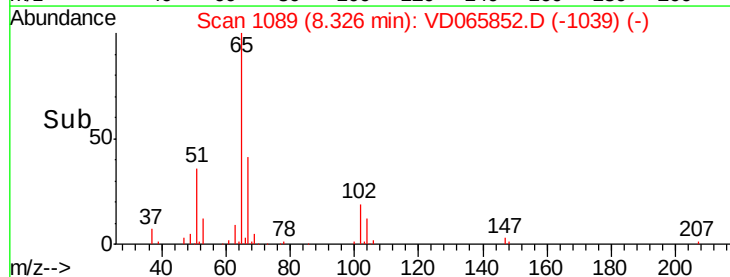
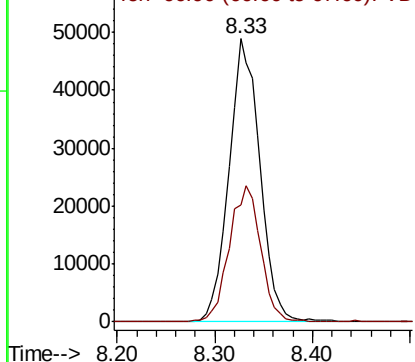


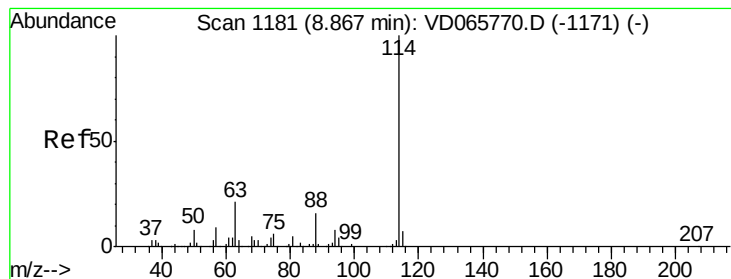
#33
1,2-Dichloroethane-d4
Concen: 58.500 ug/l
RT: 8.33 min Scan# 1089
Delta R.T. -0.01 min
Lab File: VD065852.D
Acq: 23 Jun 2020 11:28

Tgt Ion: 65 Resp: 107697
Ion Ratio Lower Upper
65 100
67 48.7 0.0 103.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065852.D

Acq: 23 Jun 2020 11:28

Instrument :

MSVOA_D

ClientSampleId :

VD0623SBL01

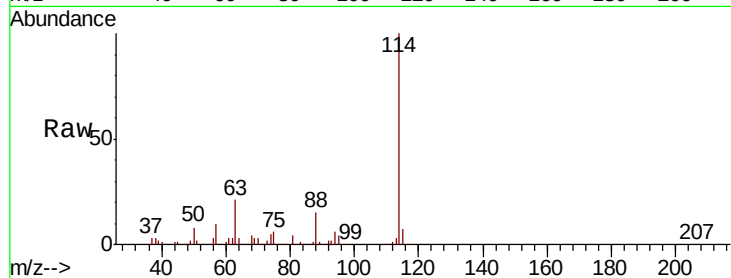
Tot Ion:114 Resp: 303612

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.8

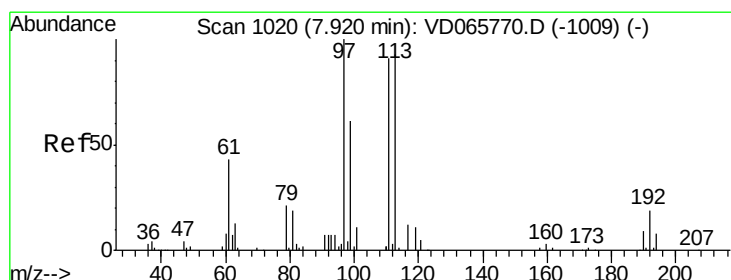
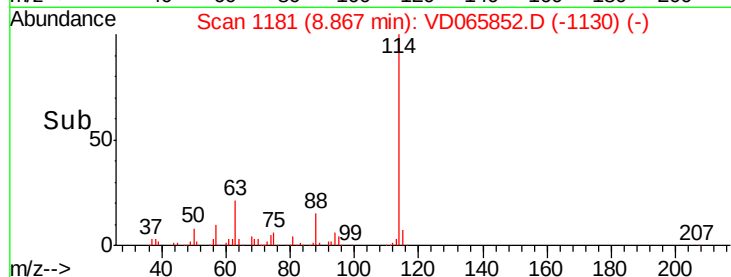
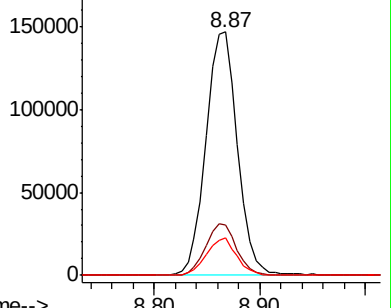
88 15.4 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 54.674 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD065852.D

Acq: 23 Jun 2020 11:28

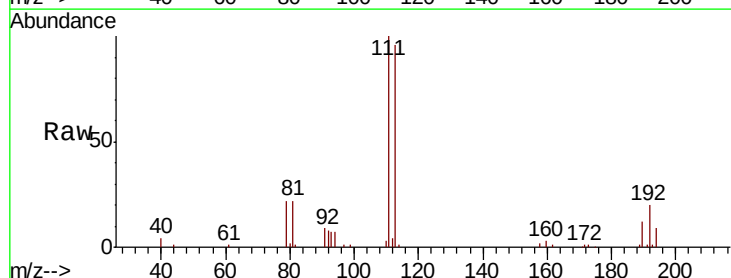
Tgt Ion:113 Resp: 104853

Ion Ratio Lower Upper

113 100

111 102.6 83.4 125.0

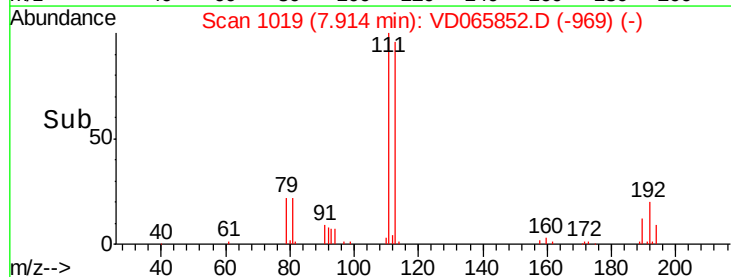
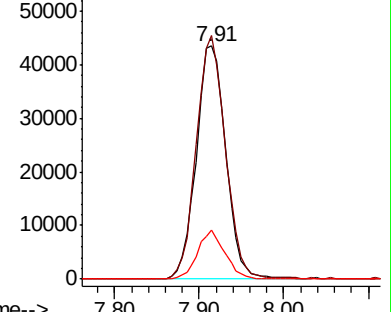
192 19.2 15.7 23.5

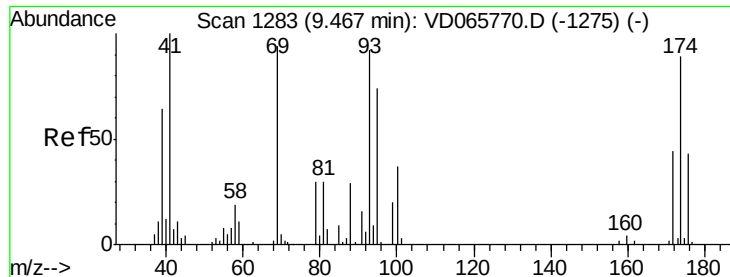


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#49

1,4-Dioxane

Concen: 5.203 ug/l

RT: 9.46 min Scan# 1281

Delta R.T. -0.01 min

Lab File: VD065852.D

Acq: 23 Jun 2020 11:28

Instrument :

MSVOA_D

ClientSampleId :

VD0623SBL01

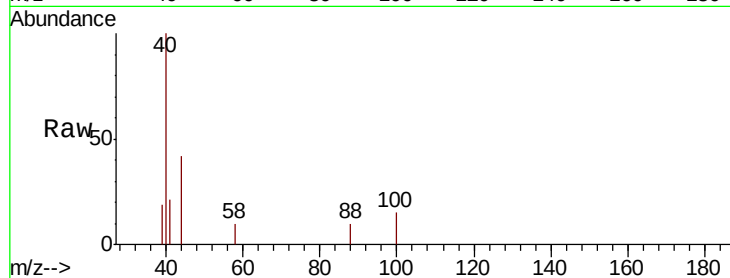
Tot Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 0.0 32.2 48.4#

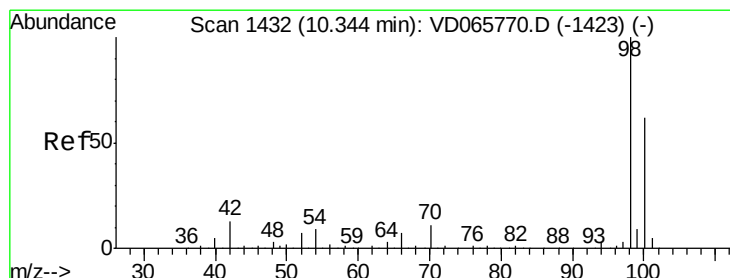
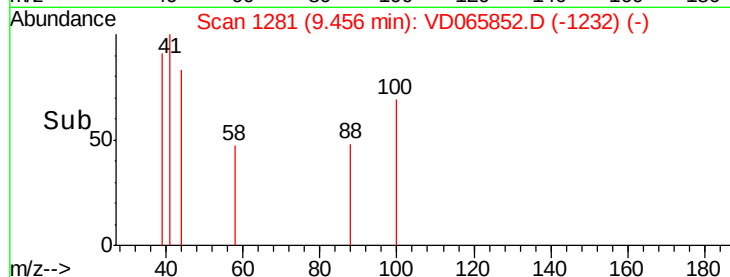
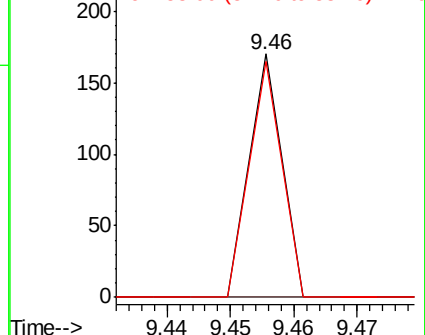
58 96.7 54.9 82.3#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 53.857 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD065852.D

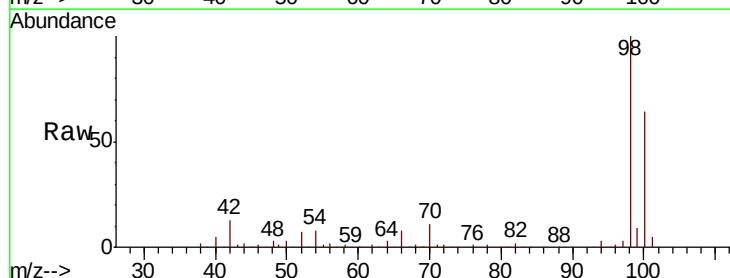
Acq: 23 Jun 2020 11:28

Tgt Ion: 98 Resp: 385147

Ion Ratio Lower Upper

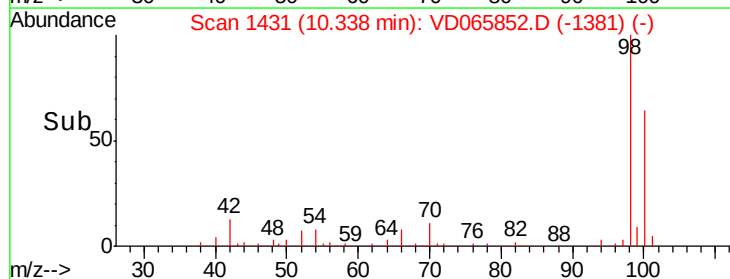
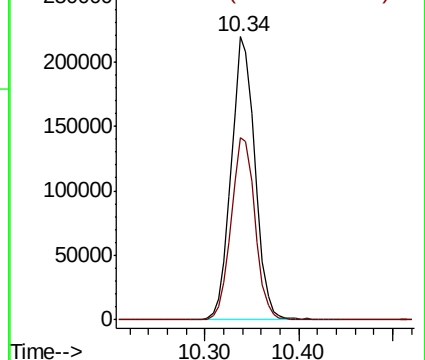
98 100

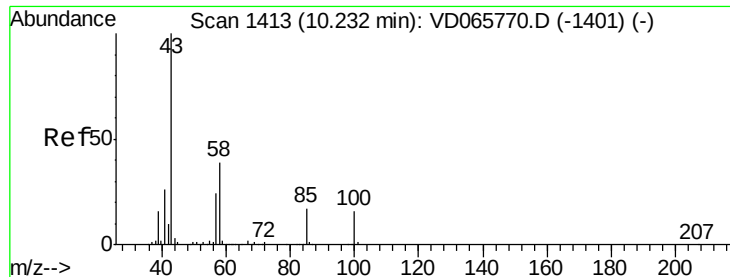
100 64.9 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 2.275 ug/l

RT: 10.23 min Scan# 1412

Delta R.T. -0.01 min

Lab File: VD065852.D

Acq: 23 Jun 2020 11:28

Instrument :

MSVOA_D

ClientSampleId :

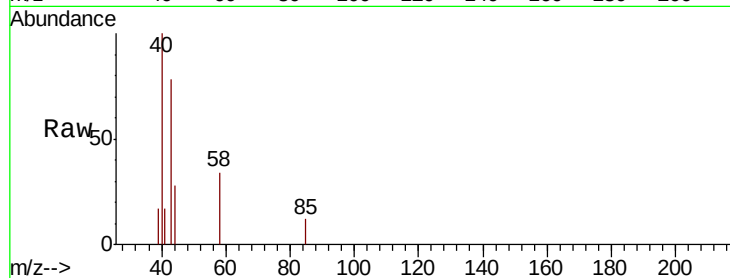
VD0623SBL01

Tot Ion: 43 Resp: 2539

Ion Ratio Lower Upper

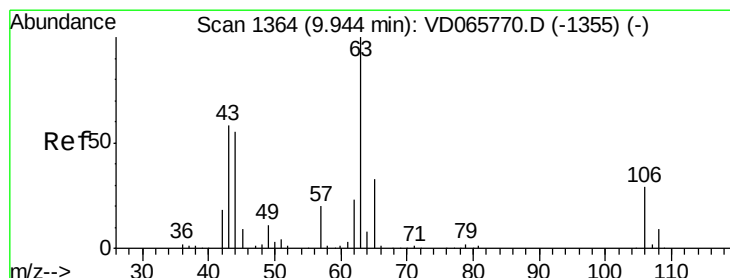
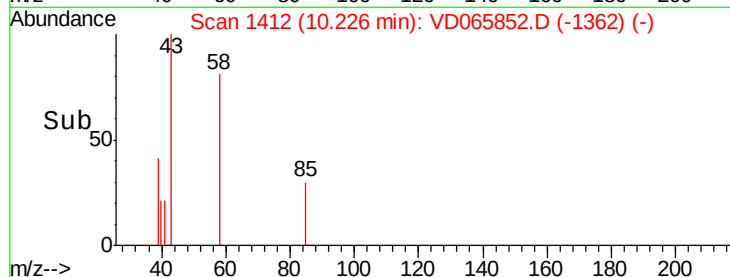
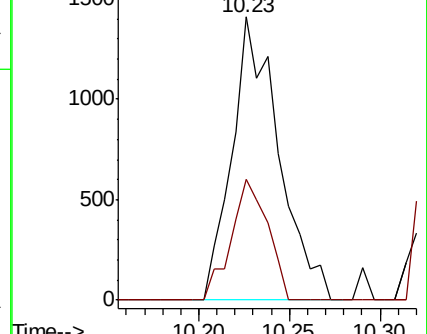
43 100

58 33.5 30.7 46.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 1.862 ug/l

RT: 9.94 min Scan# 1363

Delta R.T. -0.01 min

Lab File: VD065852.D

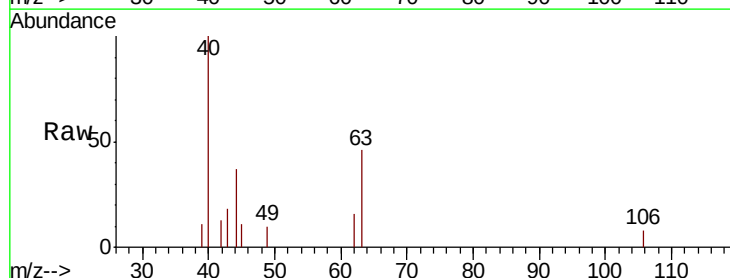
Acq: 23 Jun 2020 11:28

Tgt Ion: 63 Resp: 1474

Ion Ratio Lower Upper

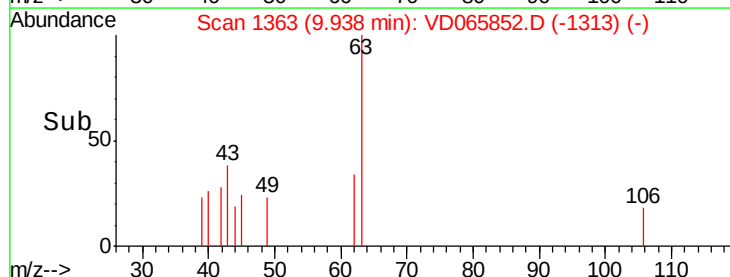
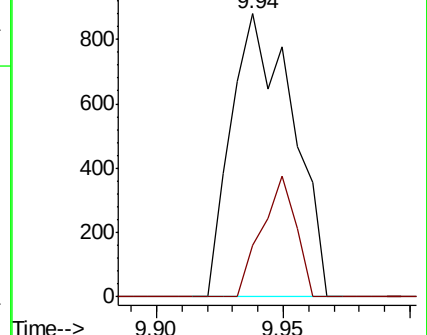
63 100

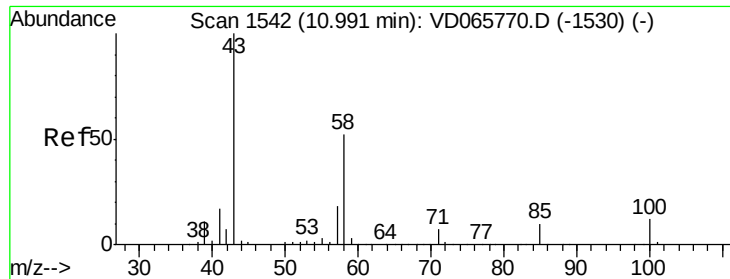
106 23.8 23.2 34.8



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): VDC





#59

2-Hexanone

Concen: 2.058 ug/l

RT: 10.99 min Scan# 1542

Delta R.T. 0.00 min

Lab File: VD065852.D

Acq: 23 Jun 2020 11:28

Instrument :

MSVOA_D

ClientSampleId :

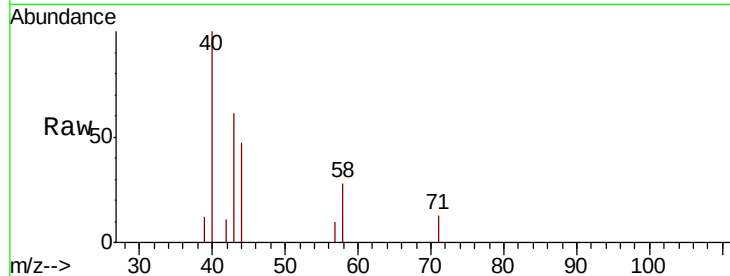
VD0623SBL01

Tot Ion: 43 Resp: 1549

Ion Ratio Lower Upper

43 100

58 58.0 25.7 77.0



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.99

800

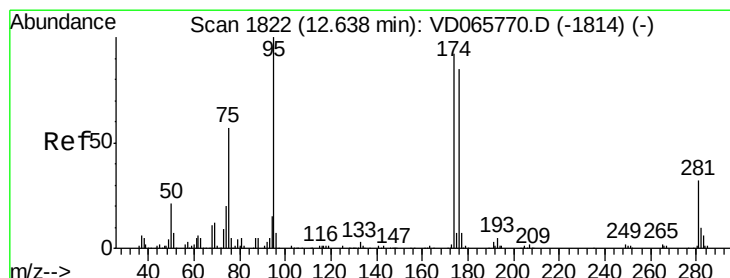
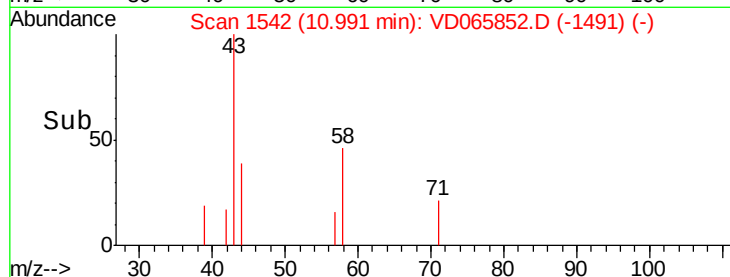
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 50.303 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065852.D

Acq: 23 Jun 2020 11:28

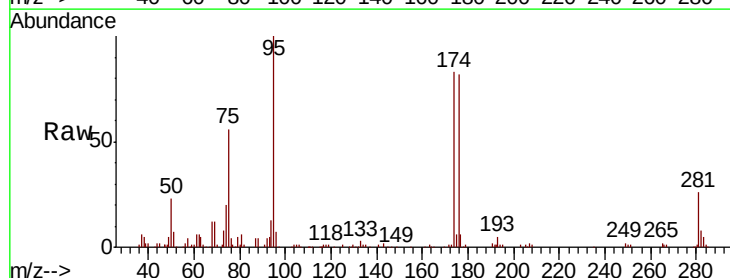
Tgt Ion: 95 Resp: 121997

Ion Ratio Lower Upper

95 100

174 82.1 0.0 175.2

176 79.7 0.0 163.0



Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

12.64

80000

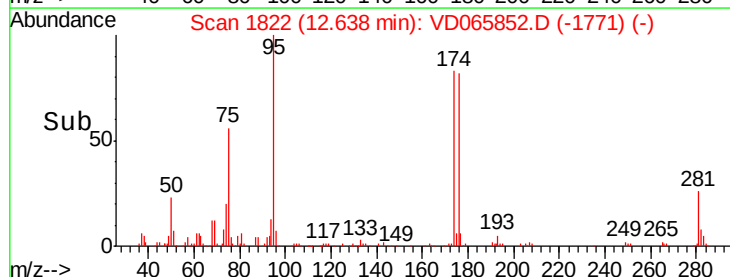
60000

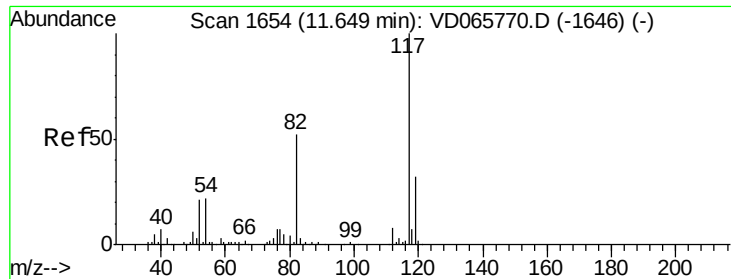
40000

20000

0

Time-->

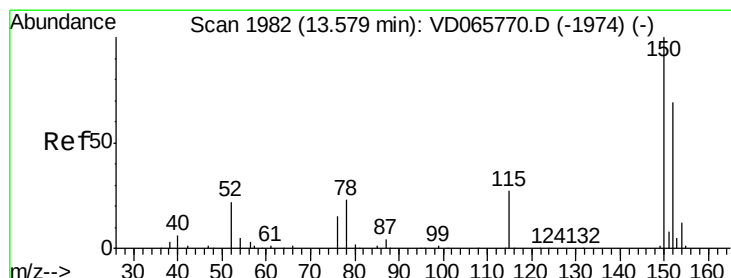
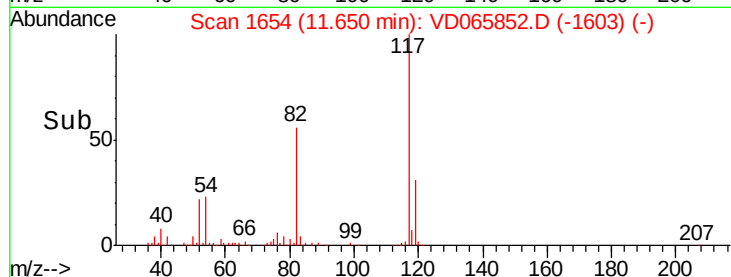
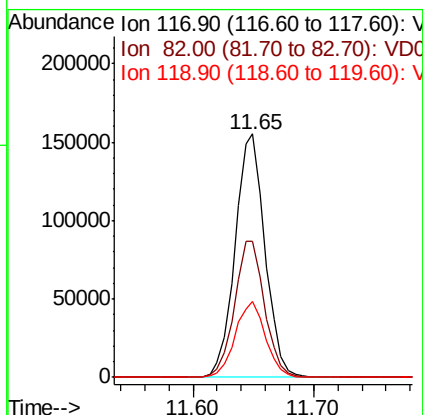
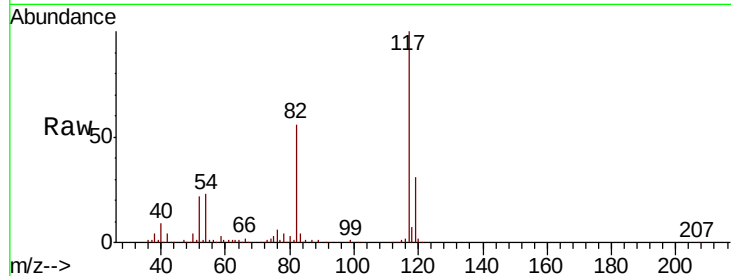




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065852.D
Acq: 23 Jun 2020 11:28

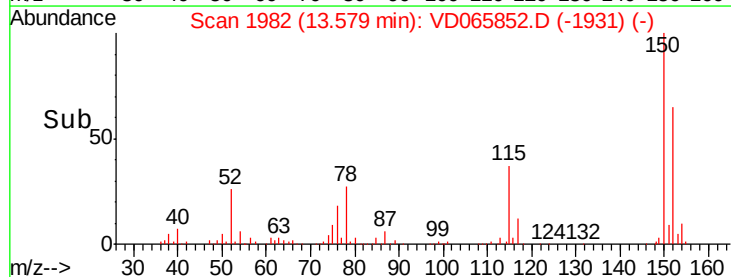
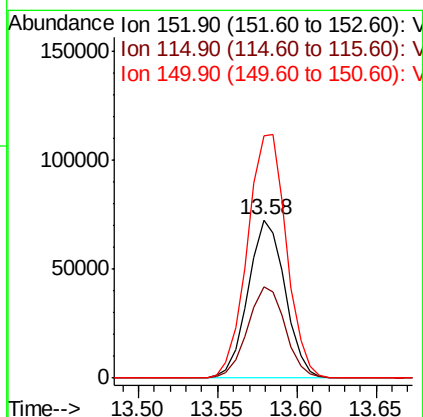
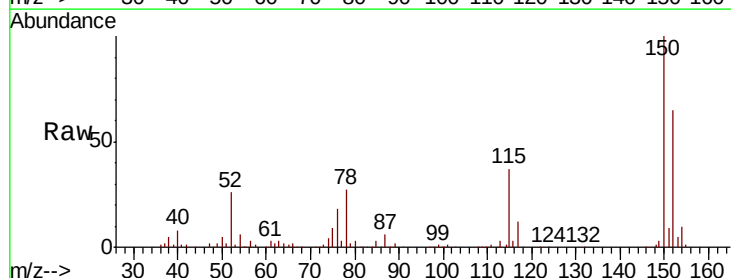
Instrument :
MSVOA_D
ClientSampleId :
VD0623SBL01

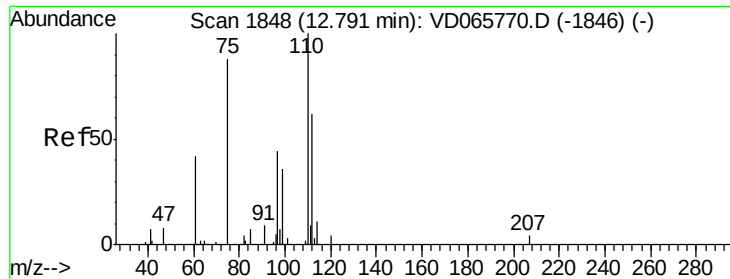
Tot Ion:117 Resp: 266892
Ion Ratio Lower Upper
117 100
82 55.9 41.9 62.9
119 31.4 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD065852.D
Acq: 23 Jun 2020 11:28

Tgt Ion:152 Resp: 117843
Ion Ratio Lower Upper
152 100
115 58.6 28.7 86.1
150 162.4 0.0 348.0

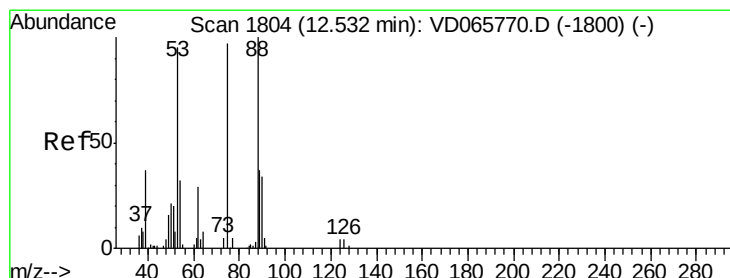
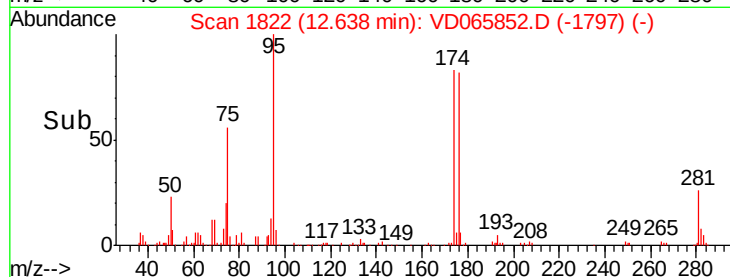
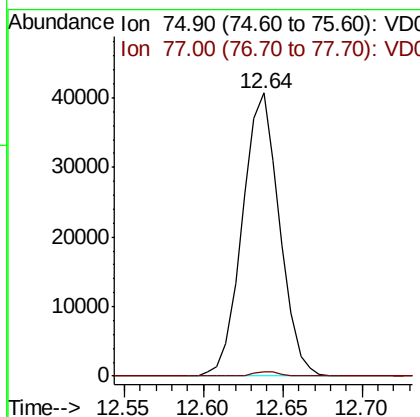
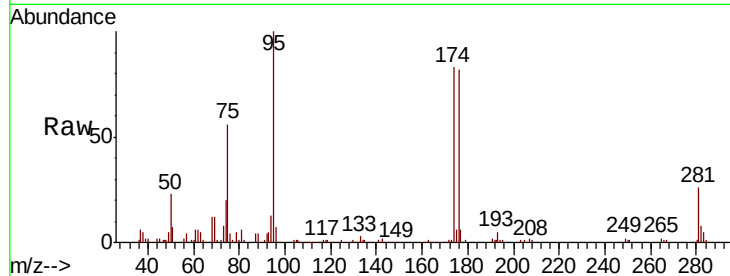




#76
 1,2,3-Trichloropropane
 Concen: 72.092 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD065852.D
 Acq: 23 Jun 2020 11:28

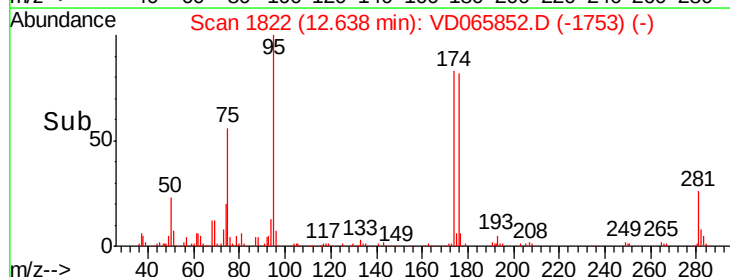
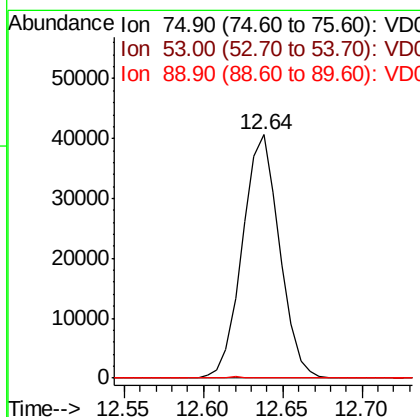
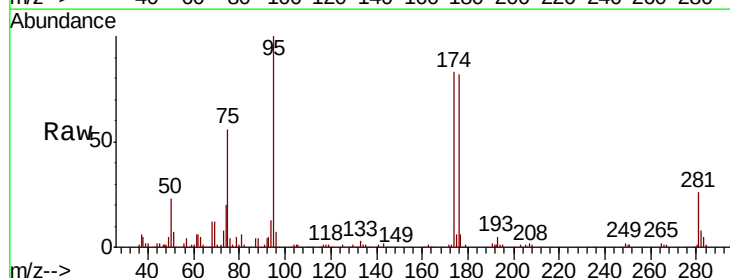
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0623SBL01

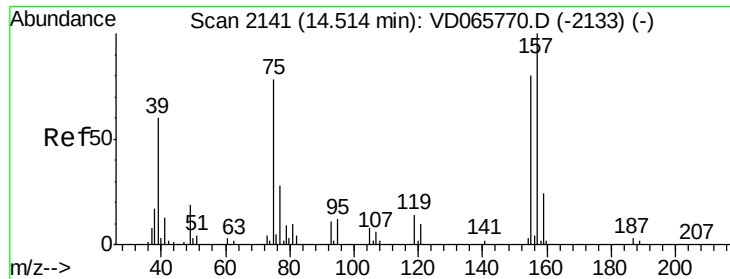
Tot Ion: 75 Resp: 66071
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 155.764 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.11 min
 Lab File: VD065852.D
 Acq: 23 Jun 2020 11:28

Tgt Ion: 75 Resp: 66071
 Ion Ratio Lower Upper
 75 100
 53 0.0 82.6 123.8#
 89 0.2 35.9 53.9#

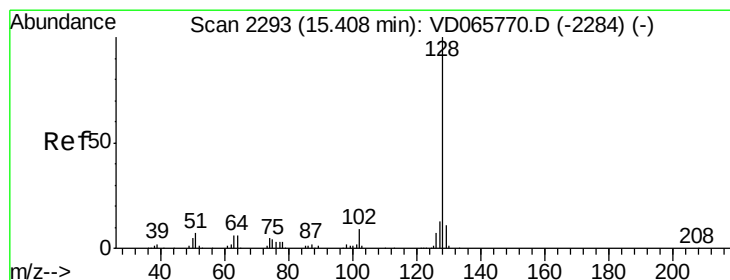
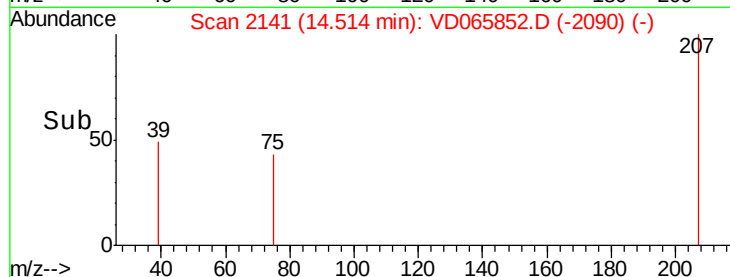
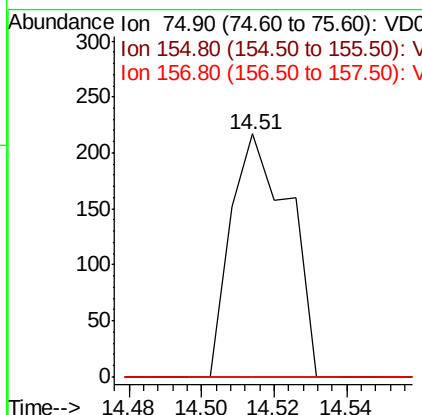
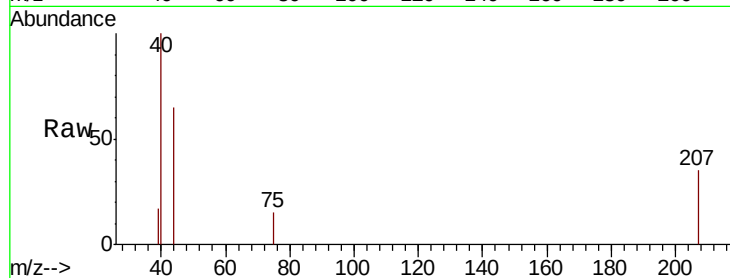




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.090 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. 0.00 min
 Lab File: VD065852.D
 Acq: 23 Jun 2020 11:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0623SBL01

Tot Ion: 75 Resp: 242
 Ion Ratio Lower Upper
 75 100
 155 0.0 46.3 138.9#
 157 0.0 58.1 174.3#



#95
 Naphthalene
 Concen: 1.024 ug/l
 RT: 15.41 min Scan# 2293
 Delta R.T. 0.00 min
 Lab File: VD065852.D
 Acq: 23 Jun 2020 11:28

Tgt Ion: 128 Resp: 3740
 Ion Ratio Lower Upper
 128 100
 127 14.3 10.7 16.1
 129 8.4 8.6 12.8#

