

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062220\
 Data File : VD065847.D
 Acq On : 22 Jun 2020 16:30
 Operator : VA/SY
 Sample : L3082-08
 Misc : 3.45G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-9

Quant Time: Jun 23 06:54:32 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	150301	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	261702	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	233825	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	101099	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	79689	53.66	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	107.32%	
35) Dibromofluoromethane	7.92	113	77213	46.71	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.42%	
50) Toluene-d8	10.34	98	269471	43.72	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	87.44%	
62) 4-Bromofluorobenzene	12.64	95	85779	41.03	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	82.06%	

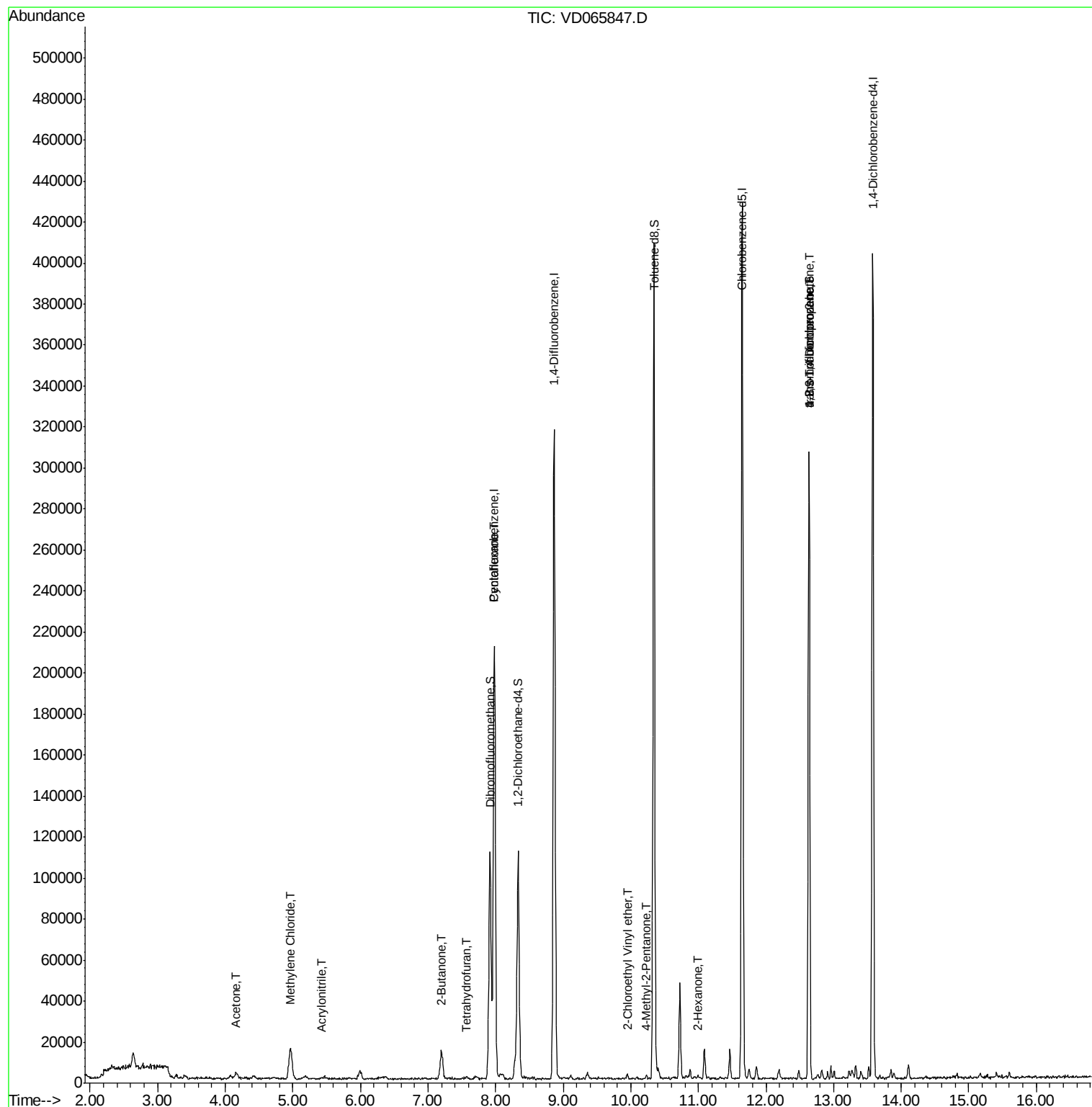
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	392	Below Cal	#	62
3) Chloromethane	2.21	50	911	Below Cal	#	43
11) Tert butyl alcohol	5.19	59	1118	Below Cal	#	74
15) Acrylonitrile	5.42	53	324	1.080	ug/l #	74
16) Acetone	4.16	43	5410	19.311	ug/l #	87
18) Methyl Acetate	4.73	43	141	Below Cal	#	52
20) Methylene Chloride	4.96	84	11558	3.643	ug/l #	83
25) 2-Butanone	7.20	43	981	2.536	ug/l #	52
29) Tetrahydrofuran	7.57	42	481	1.967	ug/l #	84
31) Cyclohexane	7.99	56	5137	1.929	ug/l #	61
51) 4-Methyl-2-Pentanone	10.24	43	1284	1.334	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.95	63	935	1.370	ug/l #	82
59) 2-Hexanone	10.99	43	797	1.229	ug/l	94
76) 1,2,3-Trichloropropane	12.64	75	48214	61.321	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	48214	132.491	ug/l #	9

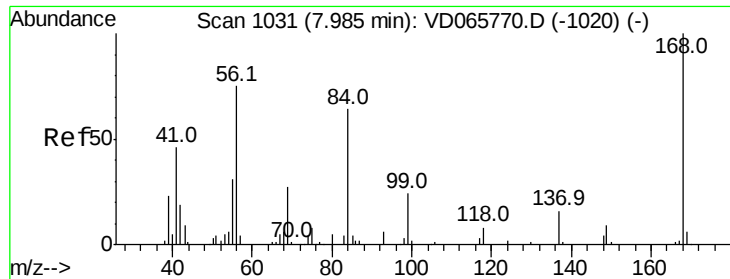
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065847.D

Acq: 22 Jun 2020 16:30

Instrument :

MSVOA_D

ClientSampleId :

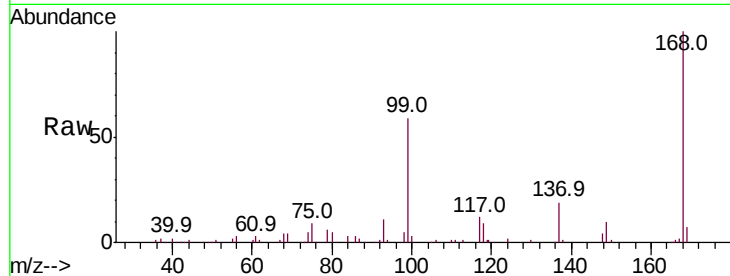
SB-9

Tot Ion:168 Resp: 150301

Ion Ratio Lower Upper

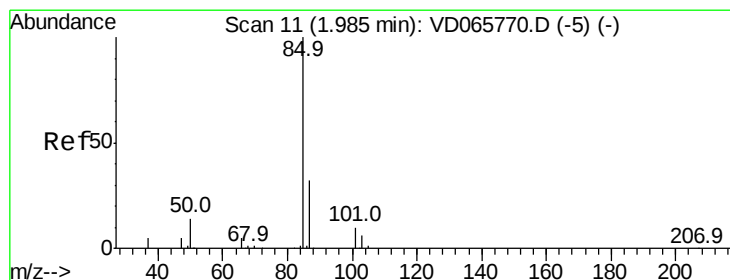
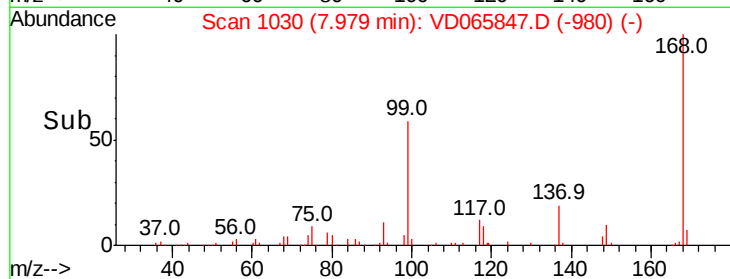
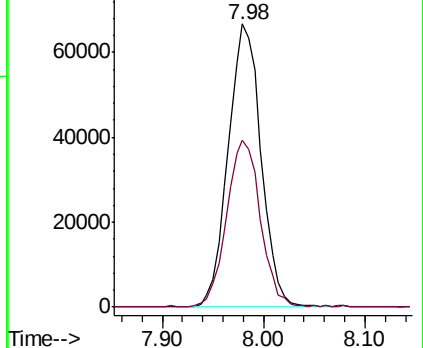
168 100

99 58.8 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: VD065847.D

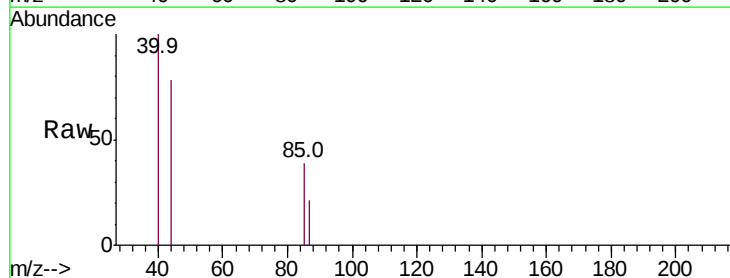
Acq: 22 Jun 2020 16:30

Tgt Ion: 85 Resp: 392

Ion Ratio Lower Upper

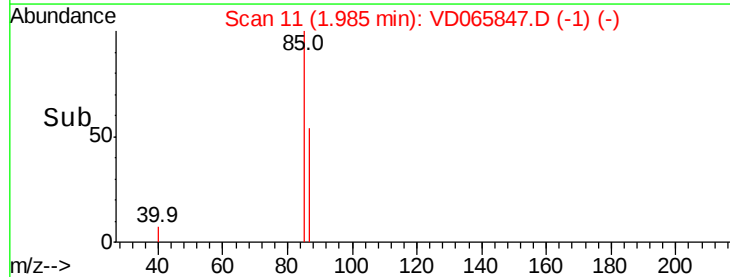
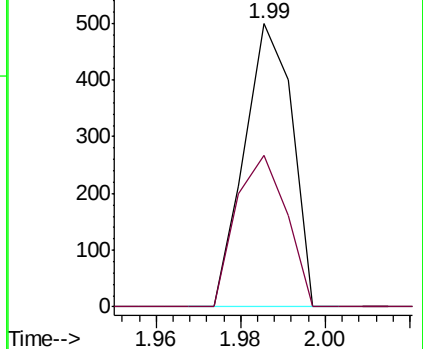
85 100

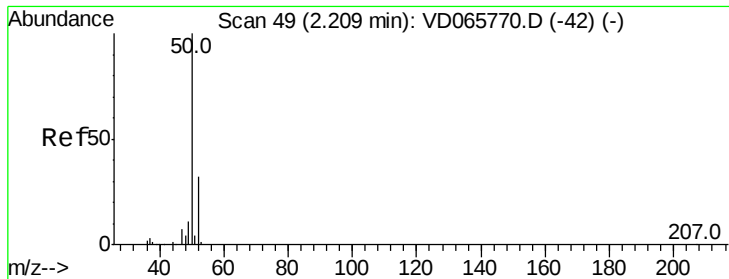
87 53.7 16.2 48.5#



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: VD065847.D

Acq: 22 Jun 2020 16:30

Instrument :

MSVOA_D

ClientSampleId :

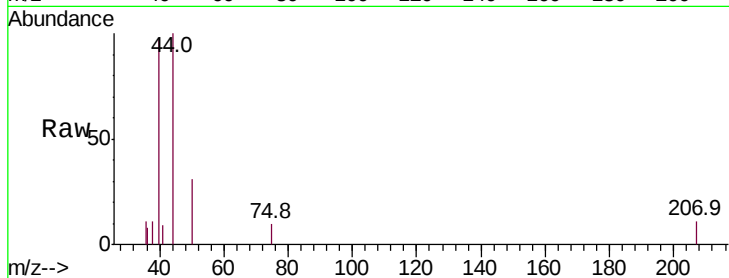
SB-9

Tot Ion: 50 Resp: 911

Ion Ratio Lower Upper

50 100

52 0.0 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

600

400

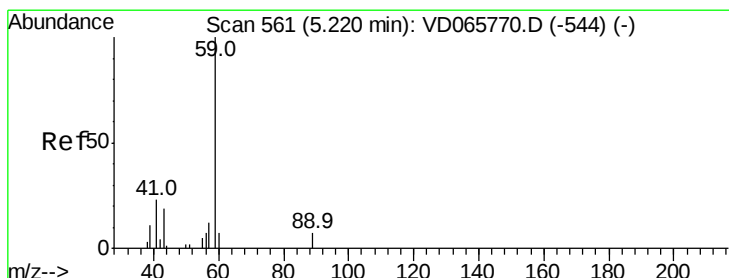
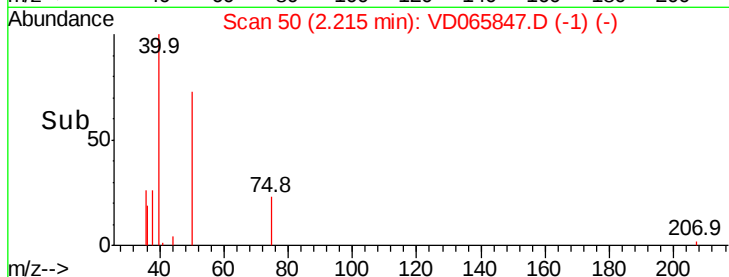
200

0

2.20

2.25

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.19 min Scan# 556

Delta R.T. -0.03 min

Lab File: VD065847.D

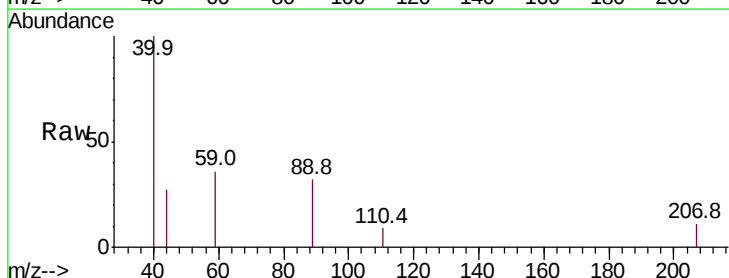
Acq: 22 Jun 2020 16:30

Tgt Ion: 59 Resp: 1118

Ion Ratio Lower Upper

59 100

57 0.0 7.5 11.3#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.19

600

400

200

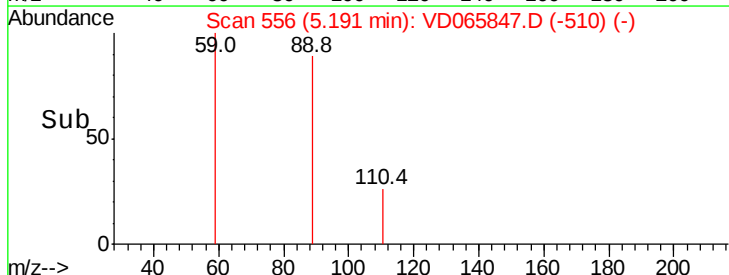
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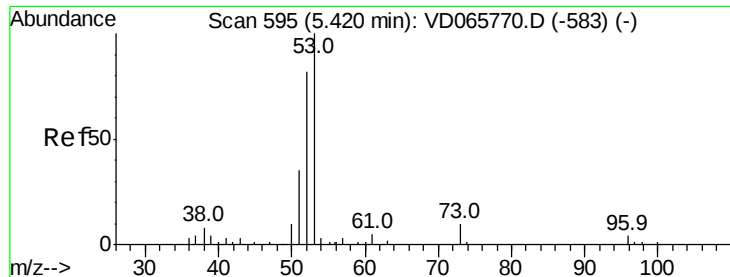
5.15

5.20

5.25

Time-->





#15

Acrylonitrile

Concen: 1.080 ug/l

RT: 5.42 min Scan# 595

Delta R.T. 0.00 min

Lab File: VD065847.D

Acq: 22 Jun 2020 16:30

Instrument :

MSVOA_D

ClientSampleId :

SB-9

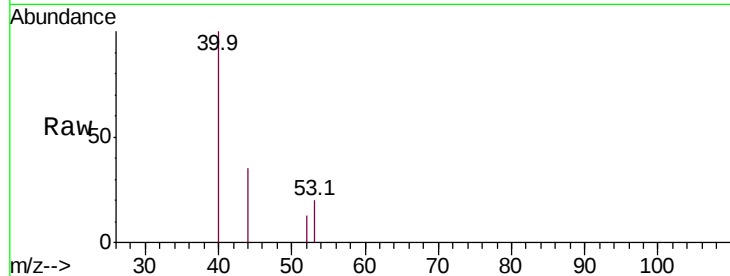
Tot Ion: 53 Resp: 324

Ion Ratio Lower Upper

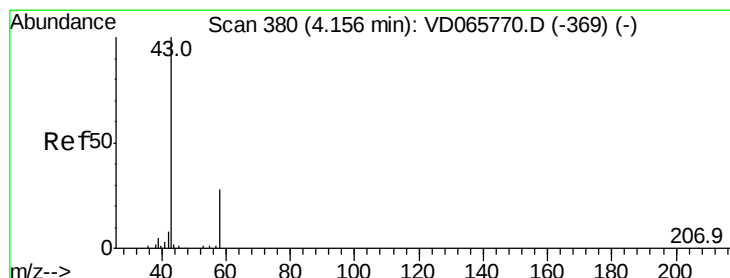
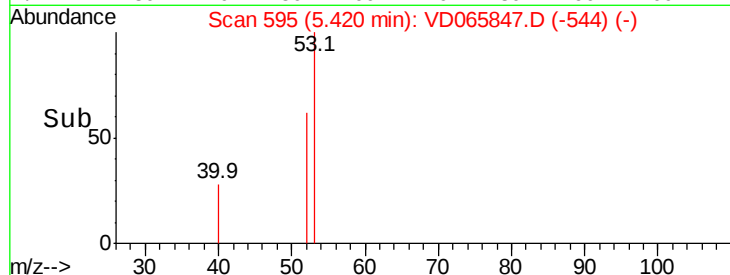
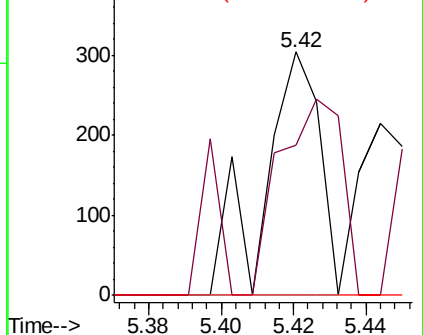
53 100

52 90.7 66.2 99.2

51 0.0 30.7 46.1#



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 19.311 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD065847.D

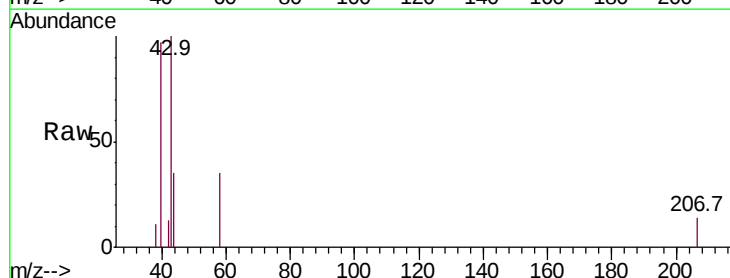
Acq: 22 Jun 2020 16:30

Tgt Ion: 43 Resp: 5410

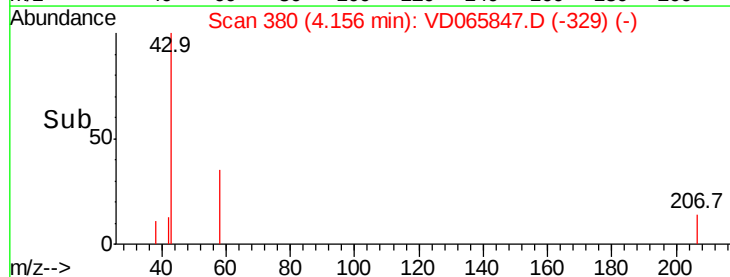
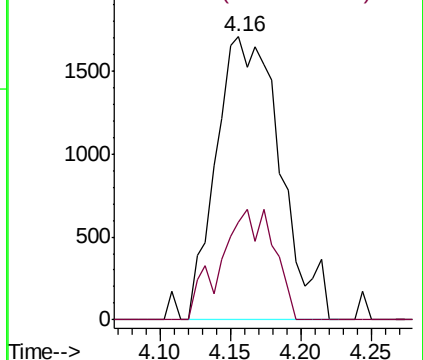
Ion Ratio Lower Upper

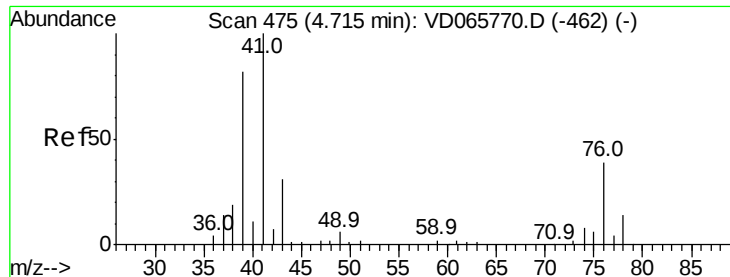
43 100

58 34.7 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

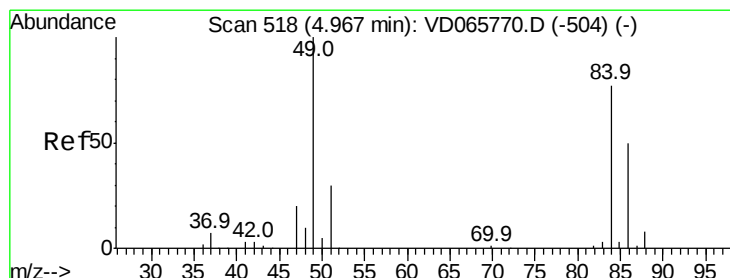
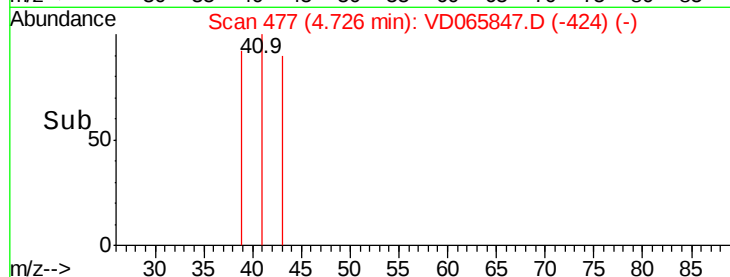
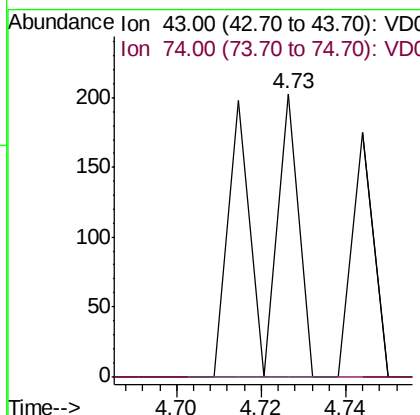
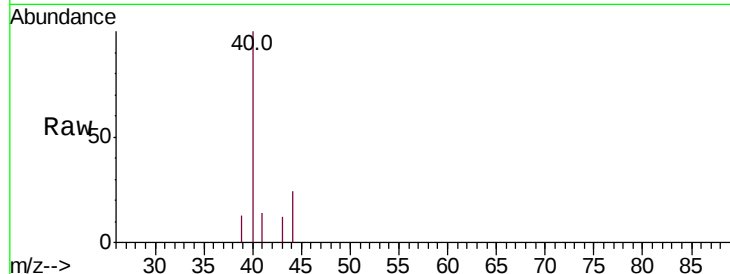




#18
Methyl Acetate
Concen: Below Cal
RT: 4.73 min Scan# 477
Delta R.T. 0.01 min
Lab File: VD065847.D
Acq: 22 Jun 2020 16:30

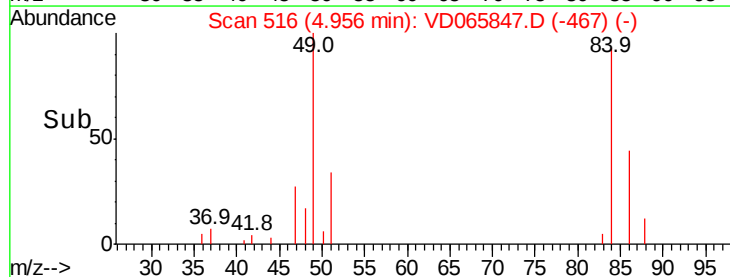
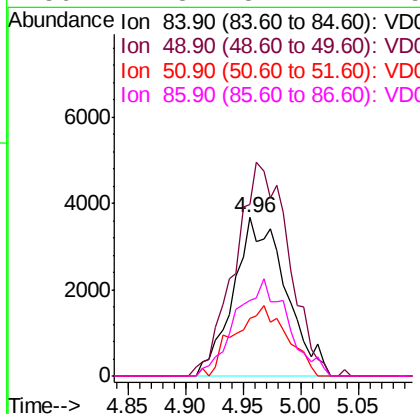
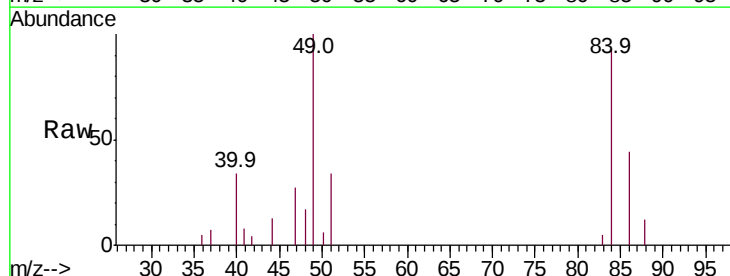
Instrument :
MSVOA_D
ClientSampleId :
SB-9

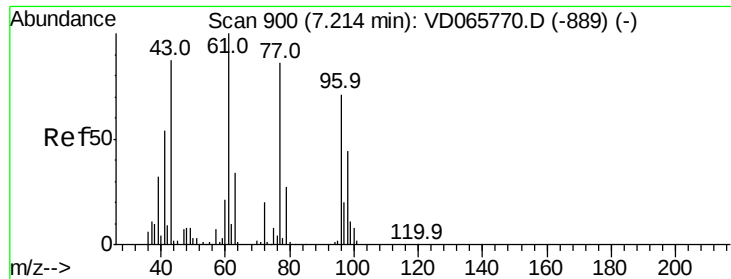
Tot Ion: 43 Resp: 141
Ion Ratio Lower Upper
43 100
74 0.0 18.7 28.1#



#20
Methylene Chloride
Concen: 3.643 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD065847.D
Acq: 22 Jun 2020 16:30

Tgt Ion: 84 Resp: 11558
Ion Ratio Lower Upper
84 100
49 108.0 103.4 155.0
51 36.5 31.4 47.2
86 47.3 51.7 77.5#

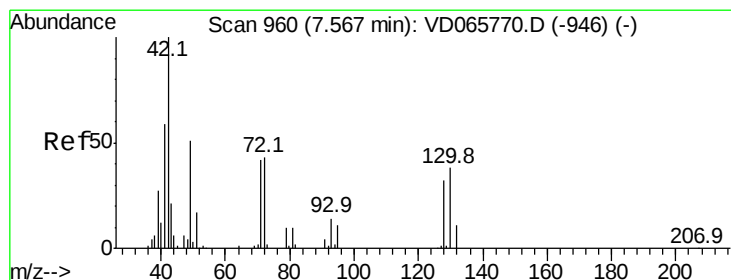
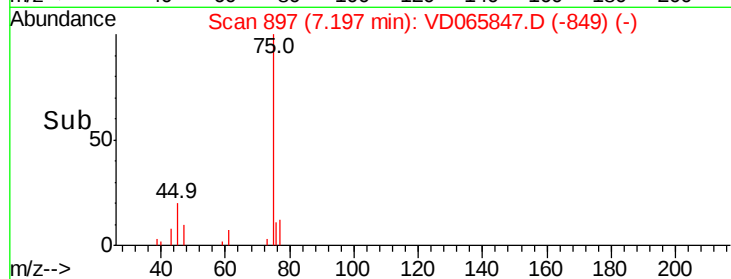
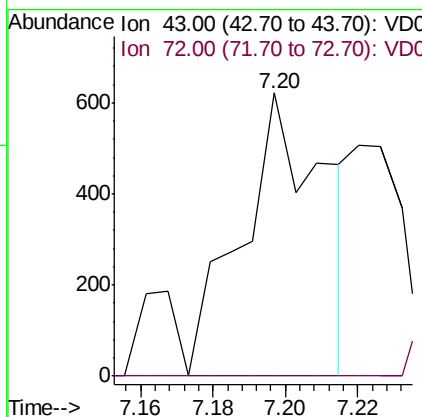
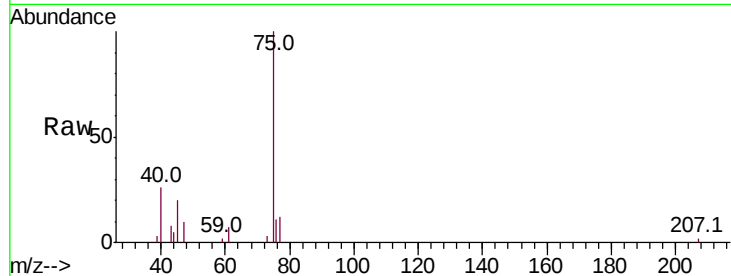




#25
 2-Butanone
 Concen: 2.536 ug/l
 RT: 7.20 min Scan# 897
 Delta R.T. -0.02 min
 Lab File: VD065847.D
 Acq: 22 Jun 2020 16:30

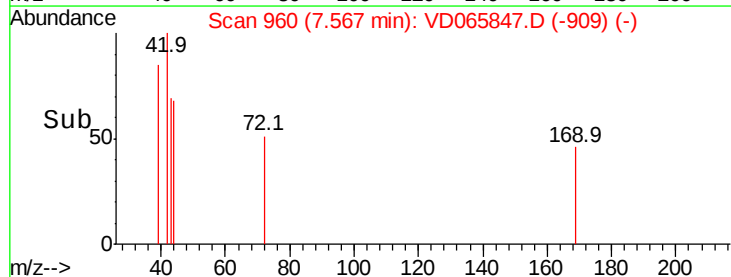
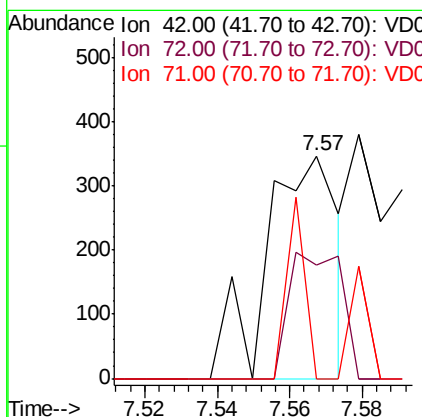
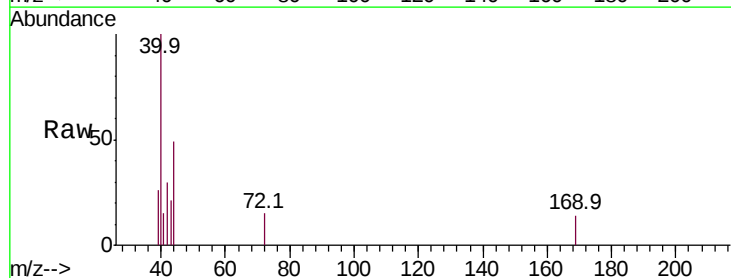
Instrument :
 MSVOA_D
 ClientSampleID :
 SB-9

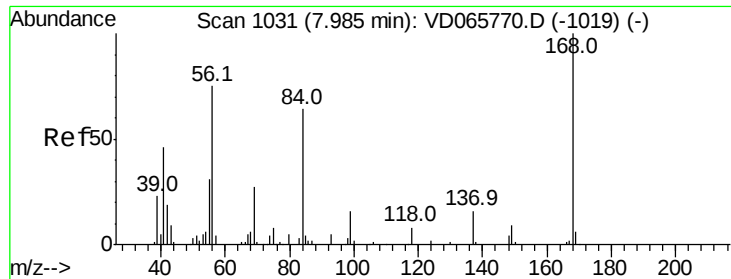
Tot Ion: 43 Resp: 981
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.5 27.7#



#29
 Tetrahydrofuran
 Concen: 1.967 ug/l
 RT: 7.57 min Scan# 960
 Delta R.T. 0.00 min
 Lab File: VD065847.D
 Acq: 22 Jun 2020 16:30

Tgt Ion: 42 Resp: 481
 Ion Ratio Lower Upper
 42 100
 72 41.4 34.9 52.3
 71 20.8 31.2 46.8#

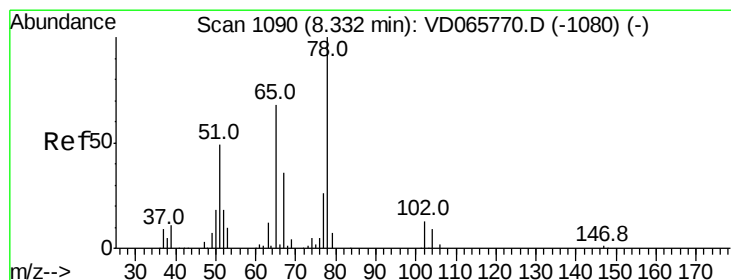
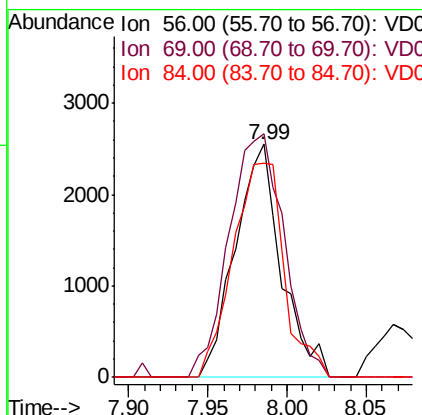
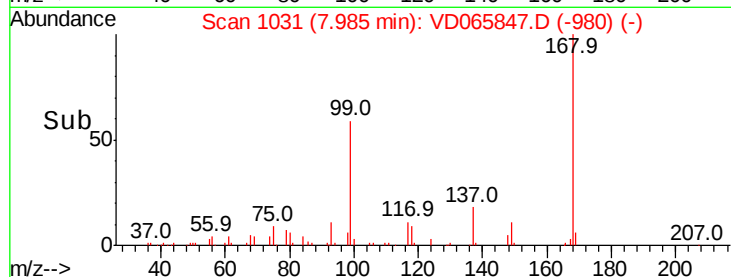
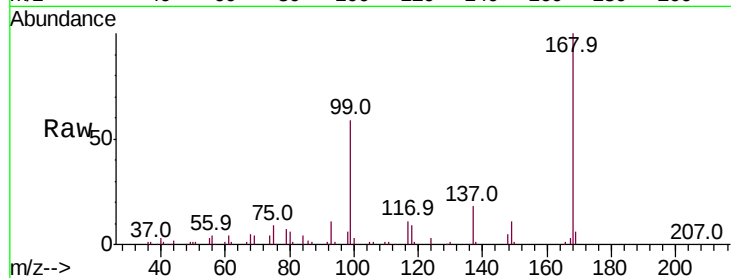




#31
Cyclohexane
Concen: 1.929 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065847.D
Acq: 22 Jun 2020 16:30

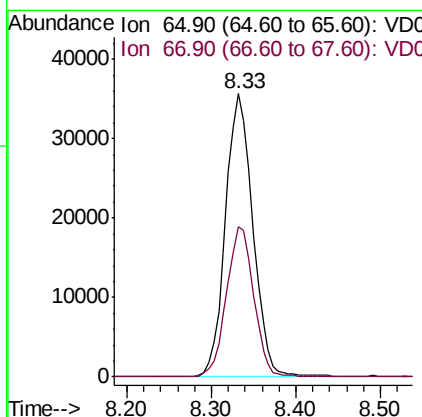
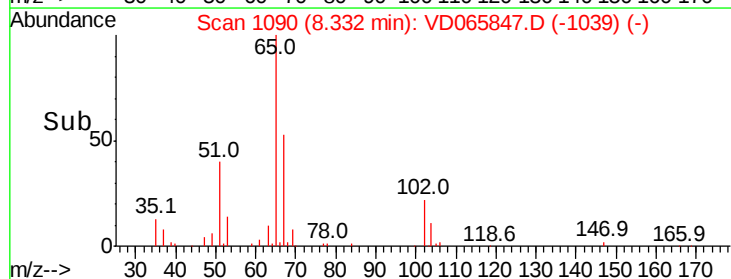
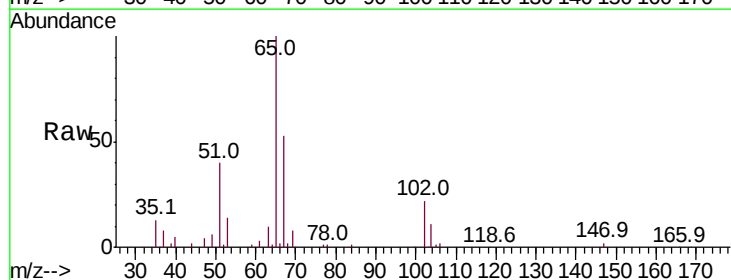
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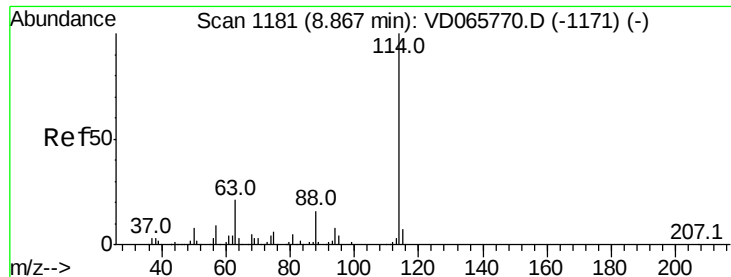
Tot Ion: 56 Resp: 5137
Ion Ratio Lower Upper
56 100
69 104.6 28.5 42.7#
84 91.8 68.4 102.6



#33
1,2-Dichloroethane-d4
Concen: 53.656 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD065847.D
Acq: 22 Jun 2020 16:30

Tgt Ion: 65 Resp: 79689
Ion Ratio Lower Upper
65 100
67 52.4 0.0 103.6

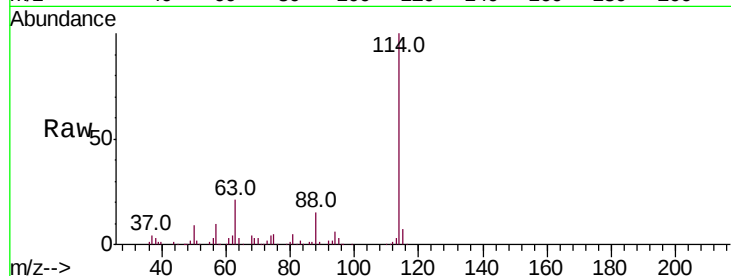




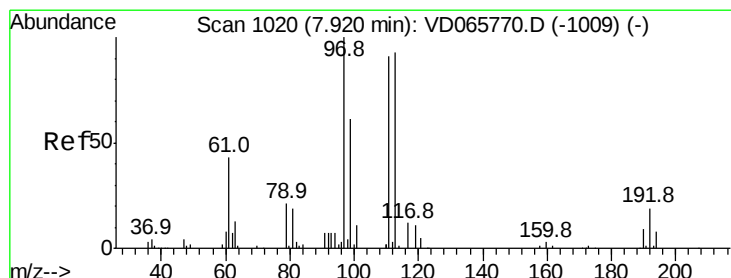
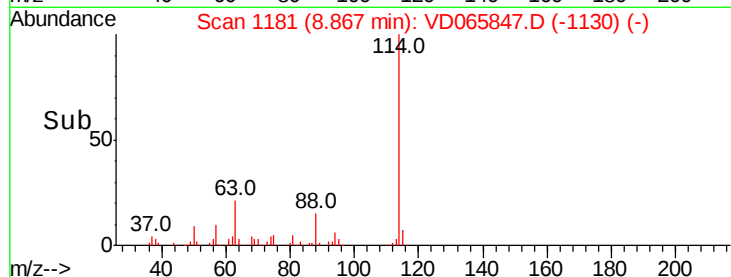
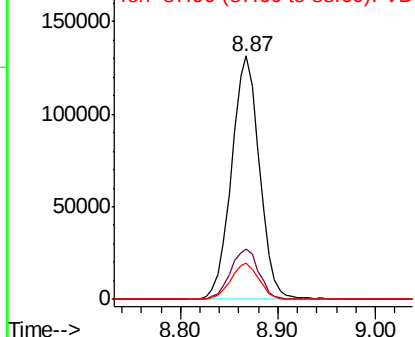
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065847.D
 Acq: 22 Jun 2020 16:30

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-9

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	41.8
88	14.7	0.0	32.0

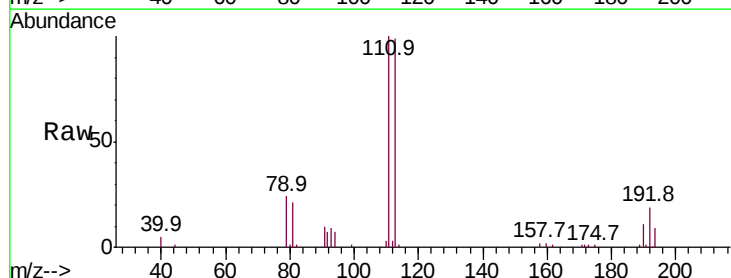


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

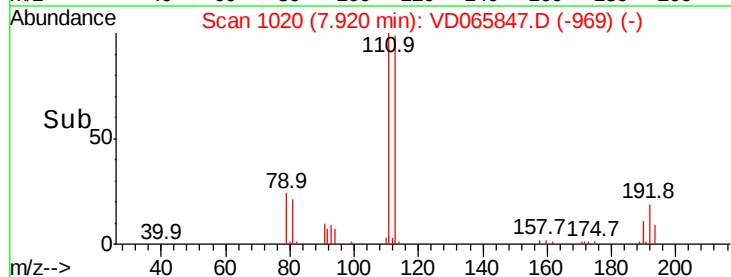
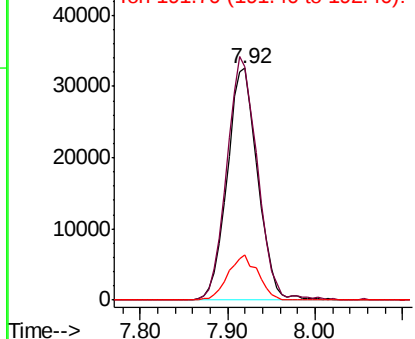


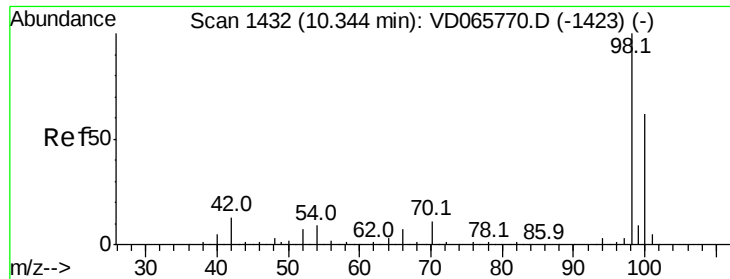
#35
 Dibromofluoromethane
 Concen: 46.709 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065847.D
 Acq: 22 Jun 2020 16:30

Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.2	83.4	125.0
192	19.0	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





#50

Toluene-d8

Concen: 43.716 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065847.D

Acq: 22 Jun 2020 16:30

Instrument :

MSVOA_D

ClientSampleId :

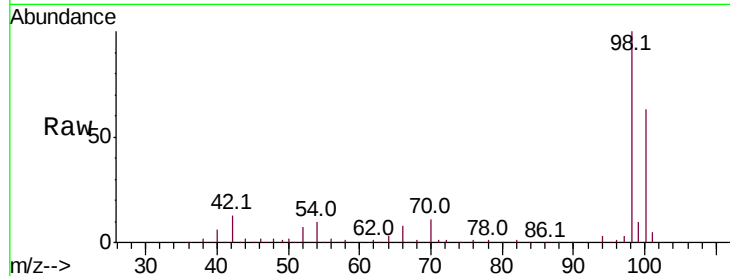
SB-9

Tot Ion: 98 Resp: 269471

Ion Ratio Lower Upper

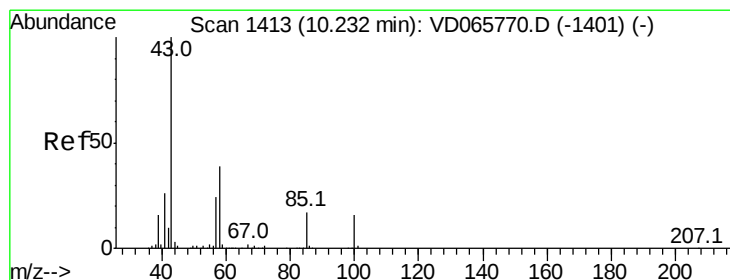
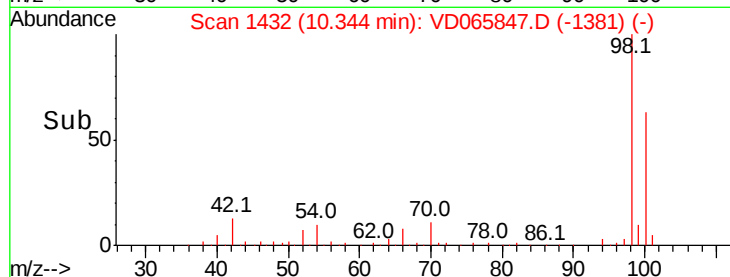
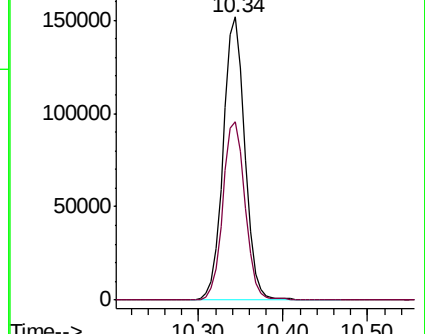
98 100

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: 1.334 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. 0.01 min

Lab File: VD065847.D

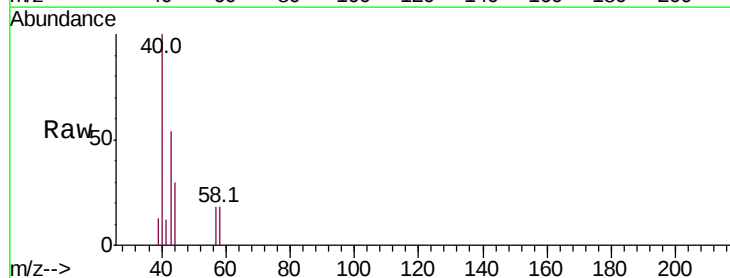
Acq: 22 Jun 2020 16:30

Tgt Ion: 43 Resp: 1284

Ion Ratio Lower Upper

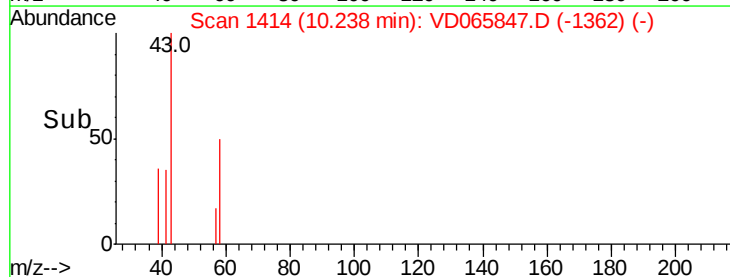
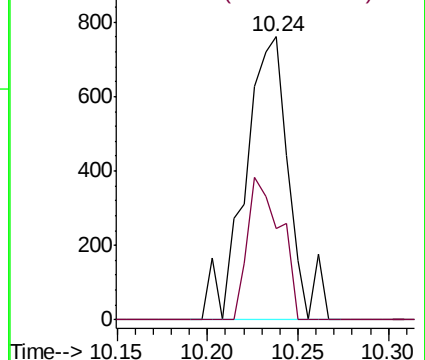
43 100

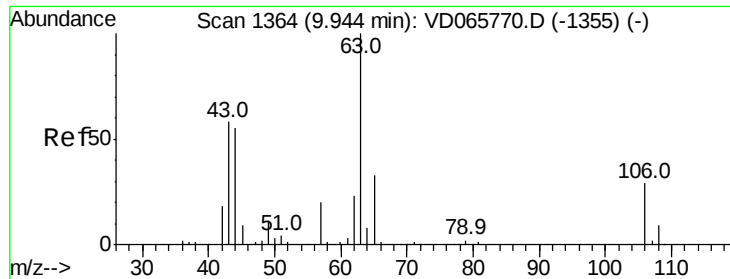
58 37.7 30.7 46.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

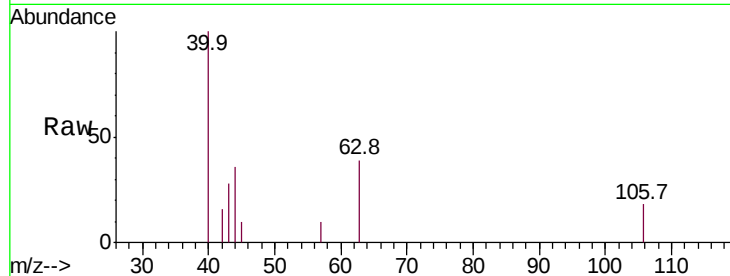




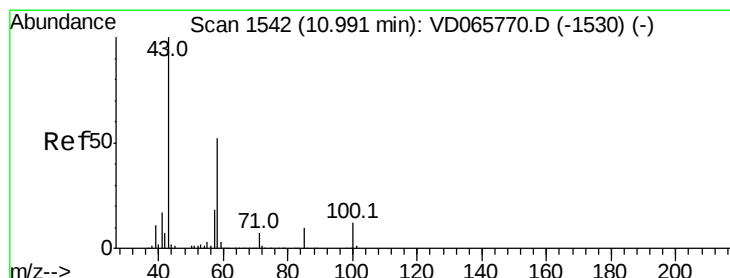
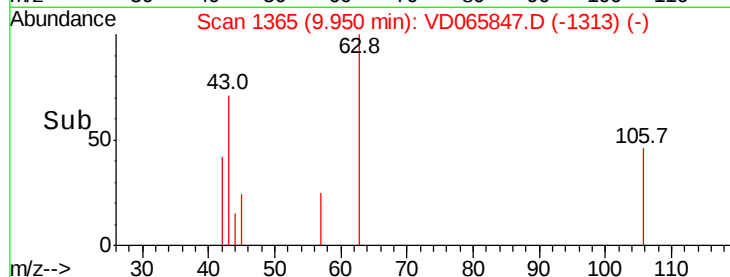
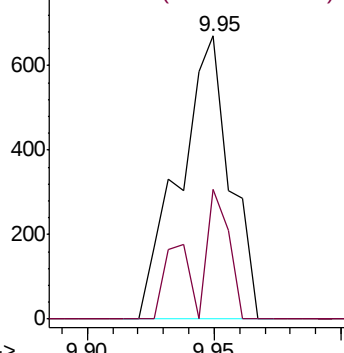
#58
 2-Chloroethyl Vinyl ether
 Concen: 1.370 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. 0.01 min
 Lab File: VD065847.D
 Acq: 22 Jun 2020 16:30

Instrument :
 MSVOA_D
 ClientSampleID :
 SB-9

Tot Ion: 63 Resp: 935
 Ion Ratio Lower Upper
 63 100
 106 19.5 23.2 34.8#

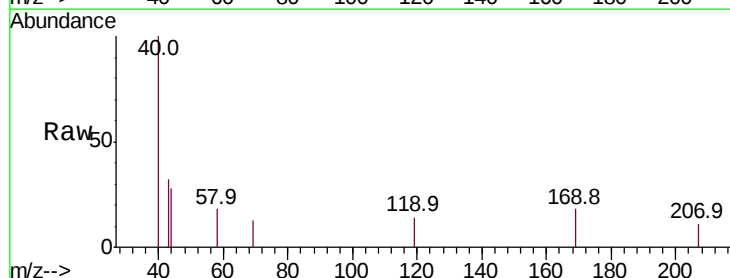


Abundance Ion 62.90 (62.60 to 63.60): VDC
 Ion 105.90 (105.60 to 106.60): V

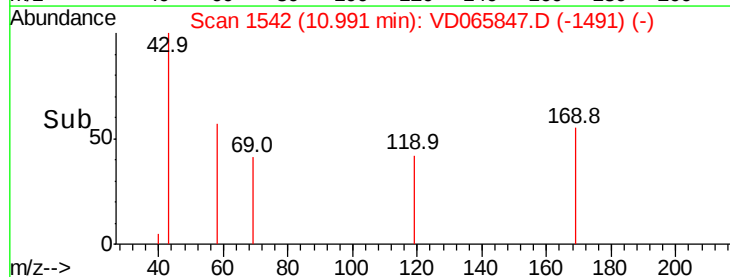
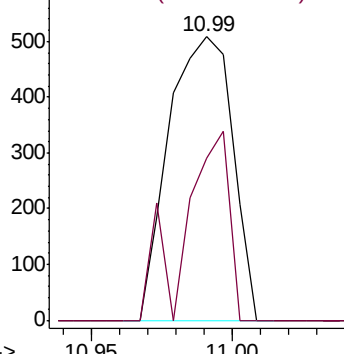


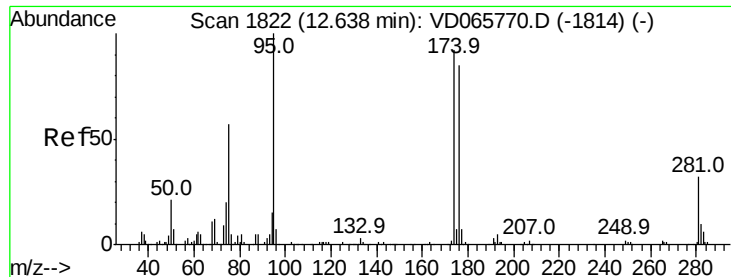
#59
 2-Hexanone
 Concen: 1.229 ug/l
 RT: 10.99 min Scan# 1542
 Delta R.T. 0.00 min
 Lab File: VD065847.D
 Acq: 22 Jun 2020 16:30

Tgt Ion: 43 Resp: 797
 Ion Ratio Lower Upper
 43 100
 58 46.8 25.7 77.0



Abundance Ion 43.00 (42.70 to 43.70): VDC
 Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 41.034 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065847.D

Acq: 22 Jun 2020 16:30

Instrument :

MSVOA_D

ClientSampleId :

SB-9

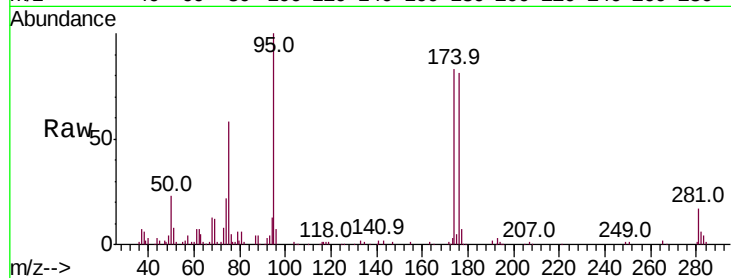
Tot Ion: 95 Resp: 85779

Ion Ratio Lower Upper

95 100

174 79.8 0.0 175.2

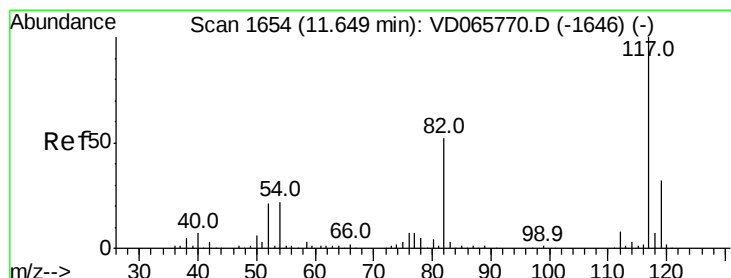
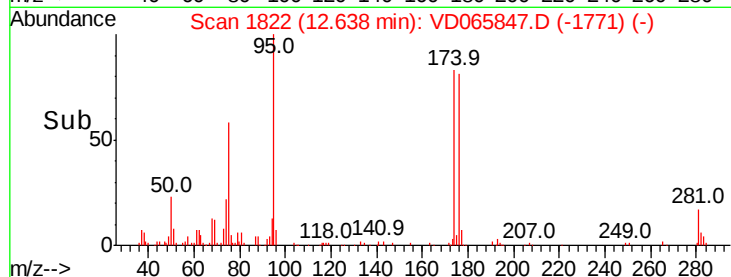
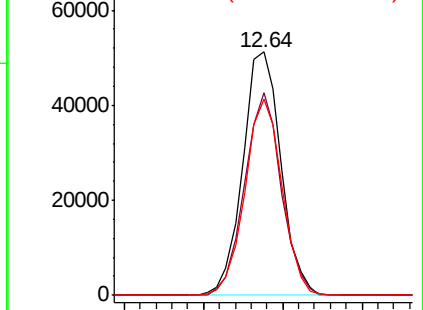
176 78.2 0.0 163.0



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD065847.D

Acq: 22 Jun 2020 16:30

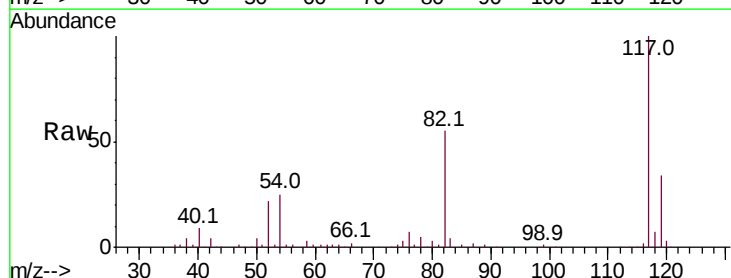
Tgt Ion: 117 Resp: 233825

Ion Ratio Lower Upper

117 100

82 55.0 41.9 62.9

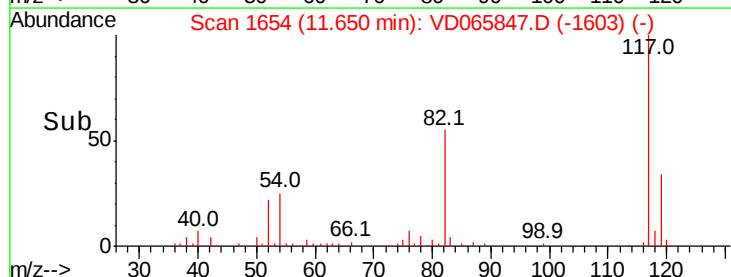
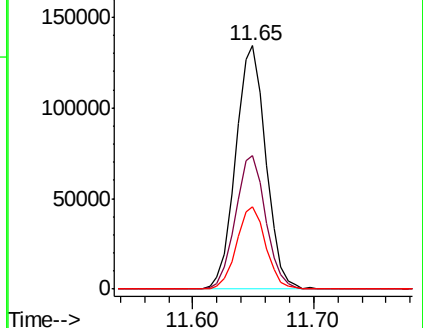
119 33.8 25.3 37.9

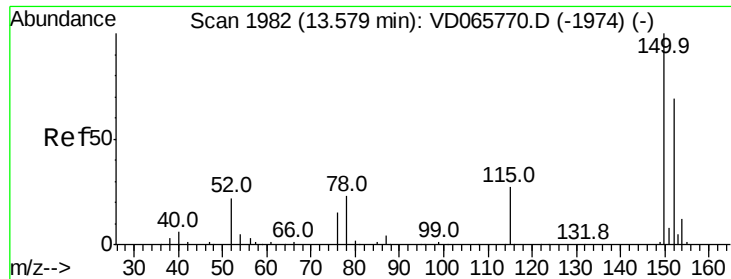


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD065847.D

Acq: 22 Jun 2020 16:30

Instrument :

MSVOA_D

ClientSampleId :

SB-9

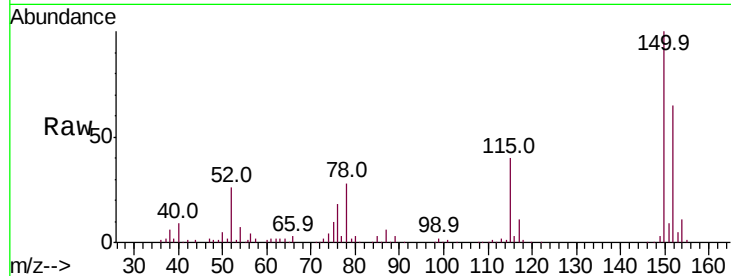
Tot Ion:152 Resp: 101099

Ion Ratio Lower Upper

152 100

115 61.2 28.7 86.1

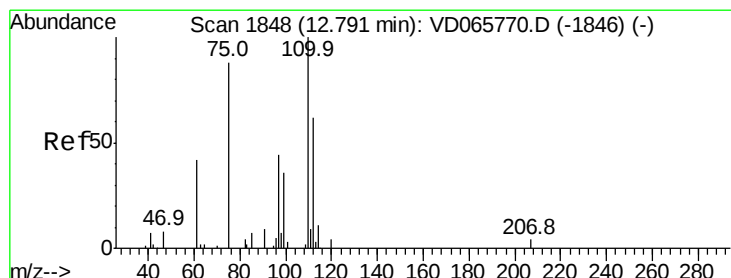
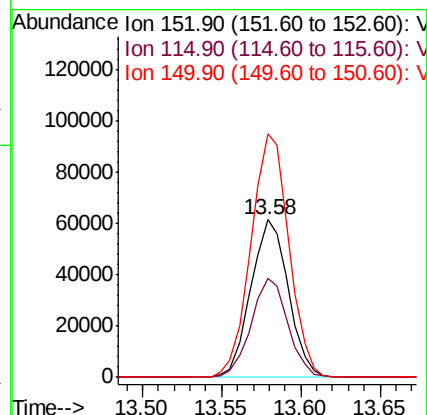
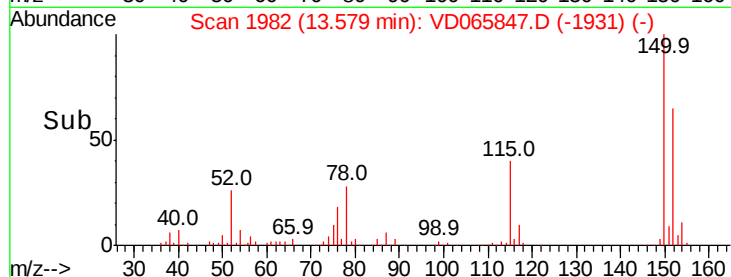
150 156.2 0.0 348.0



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



#76

1,2,3-Trichloropropane

Concen: 61.321 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065847.D

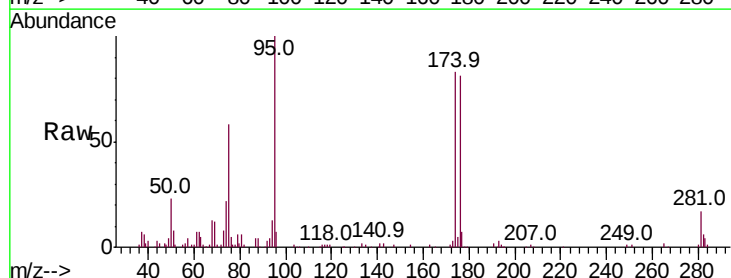
Acq: 22 Jun 2020 16:30

Tgt Ion: 75 Resp: 48214

Ion Ratio Lower Upper

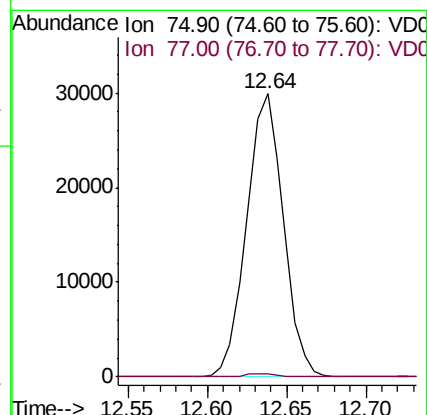
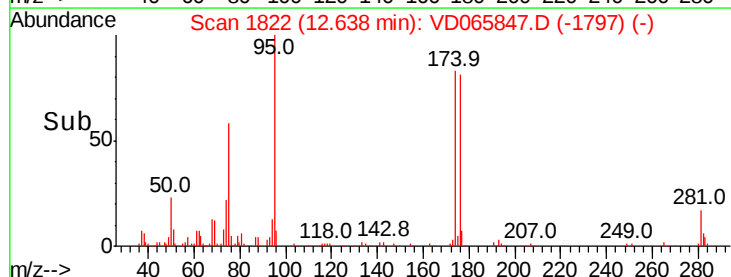
75 100

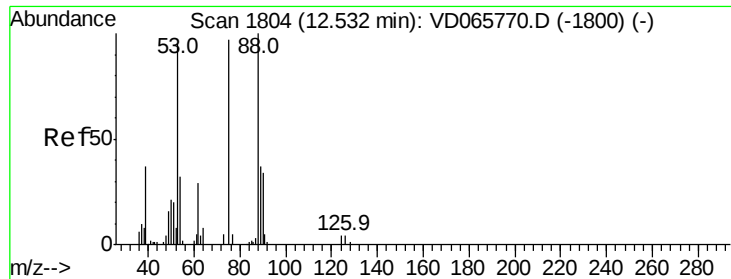
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 132.491 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065847.D

Acq: 22 Jun 2020 16:30

Instrument :

MSVOA_D

ClientSampleId :

SB-9

Tot Ion: 75 Resp: 48214

Ion Ratio Lower Upper

75 100

53 0.0 82.6 123.8#

89 0.3 35.9 53.9#

