

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102120\
 Data File : VD067346.D
 Acq On : 21 Oct 2020 14:31
 Operator : VA/SY
 Sample : L4436-05
 Misc : 11.63G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 34B

Quant Time: Oct 22 00:20:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	351113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	581112	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	558496	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	261266	50.00	ug/l	0.00

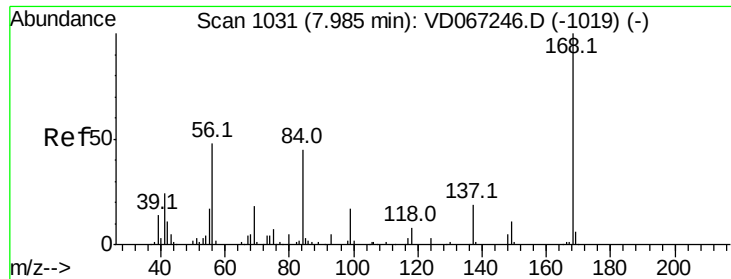
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	183374	52.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.26%	
35) Dibromofluoromethane	7.92	113	190869	49.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.70%	
50) Toluene-d8	10.34	98	688257	49.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.36%	
62) 4-Bromofluorobenzene	12.64	95	245832	50.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	211	Below Cal	#	44
5) Bromomethane	2.79	94	188	Below Cal		94
16) Acetone	4.16	43	33784	68.577	ug/l	96
20) Methylene Chloride	4.96	84	1086	Below Cal	#	55
25) 2-Butanone	7.23	43	7070	12.590	ug/l	96
29) Tetrahydrofuran	7.57	42	977	3.130	ug/l #	72
31) Cyclohexane	7.98	56	6953	1.716	ug/l #	45
36) 1,1-Dichloropropene	7.98	75	23791	4.830	ug/l #	50
37) Ethyl Acetate	7.23	43	7070	4.879	ug/l #	61
38) Carbon Tetrachloride	7.98	117	36573	5.810	ug/l #	17
51) 4-Methyl-2-Pentanone	10.34	43	2691	1.876	ug/l #	1
52) Toluene	10.41	92	1755671	190.770	ug/l	98
53) t-1,3-Dichloropropene	10.41	75	22091	4.811	ug/l #	1
68) m/p-Xylenes	11.86	106	20319	2.874	ug/l	91
76) 1,2,3-Trichloropropane	12.64	75	125360	69.228	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	125360	156.989	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067346.D

Acq: 21 Oct 2020 14:31

Instrument :

MSVOA_D

ClientSampleId :

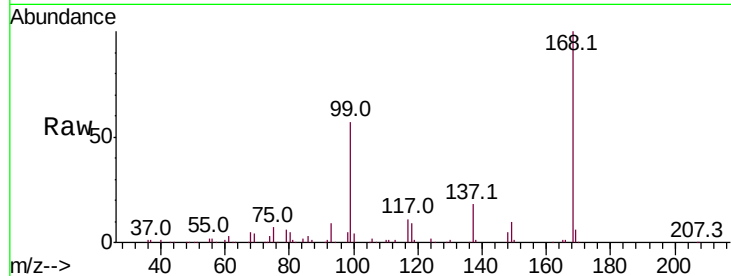
34B

Tot Ion:168 Resp: 351113

Ion Ratio Lower Upper

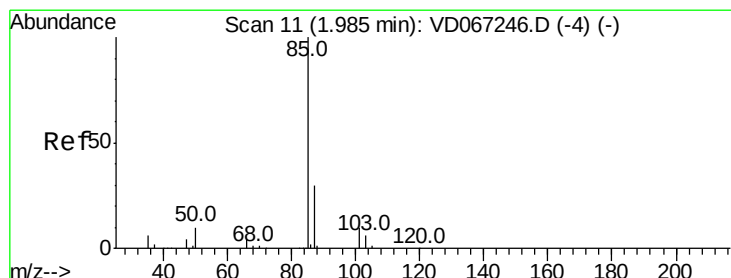
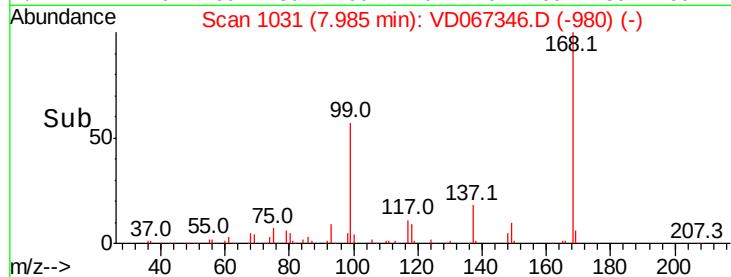
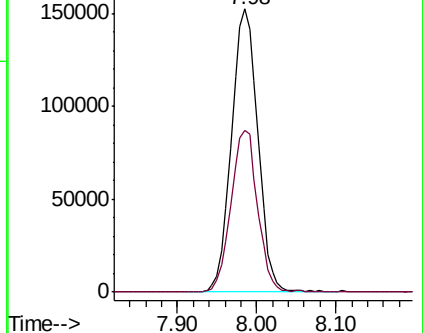
168 100

99 57.0 45.9 68.9



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: VD067346.D

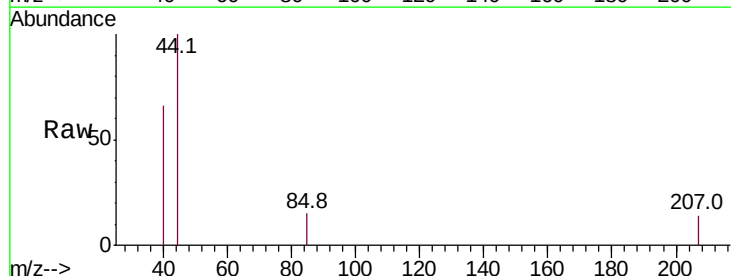
Acq: 21 Oct 2020 14:31

Tgt Ion: 85 Resp: 211

Ion Ratio Lower Upper

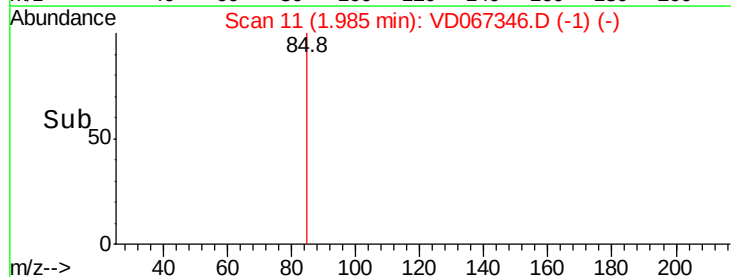
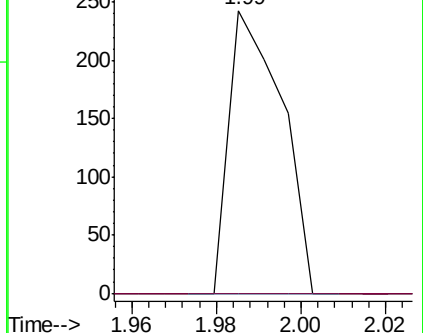
85 100

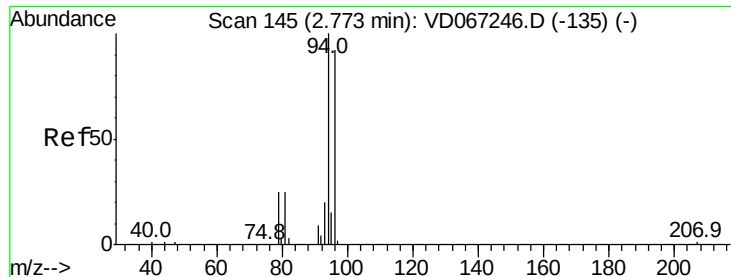
87 0.0 15.2 45.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067346.D

Acq: 21 Oct 2020 14:31

Instrument :

MSVOA_D

ClientSampled :

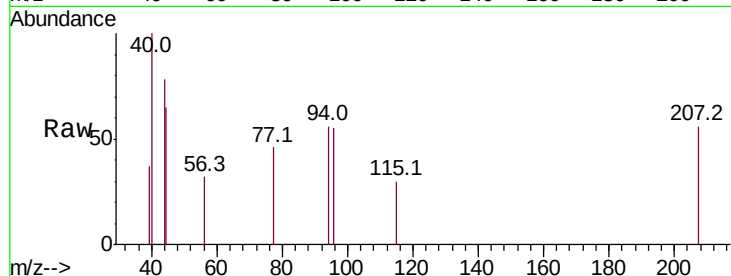
34B

Tot Ion: 94 Resp: 188

Ion Ratio Lower Upper

94 100

96 98.0 73.8 110.6



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.79

300

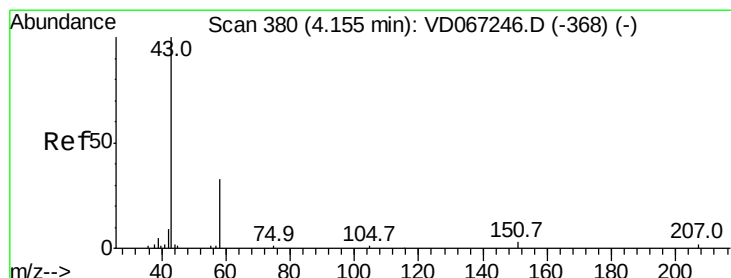
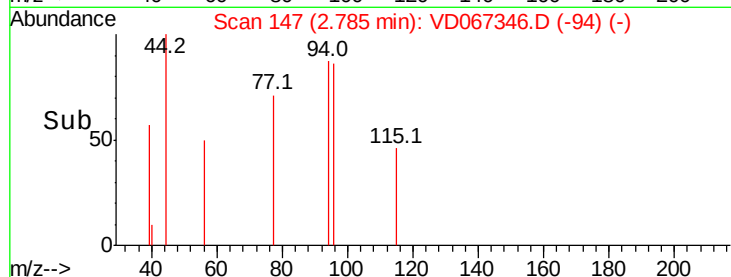
200

100

0

2.76 2.78 2.80

Time-->



#16

Acetone

Concen: 68.577 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD067346.D

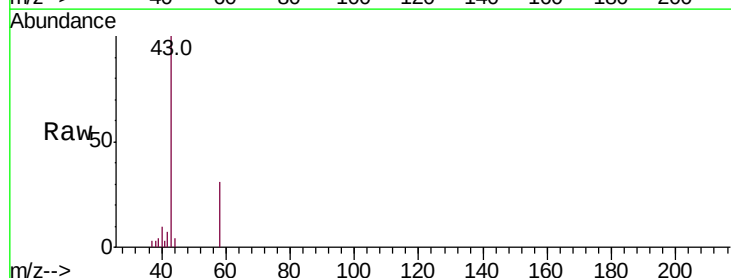
Acq: 21 Oct 2020 14:31

Tgt Ion: 43 Resp: 33784

Ion Ratio Lower Upper

43 100

58 30.5 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

15000

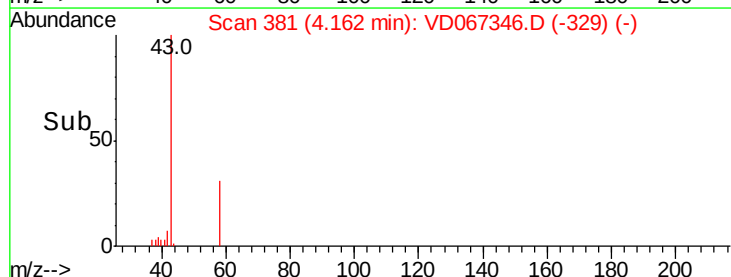
10000

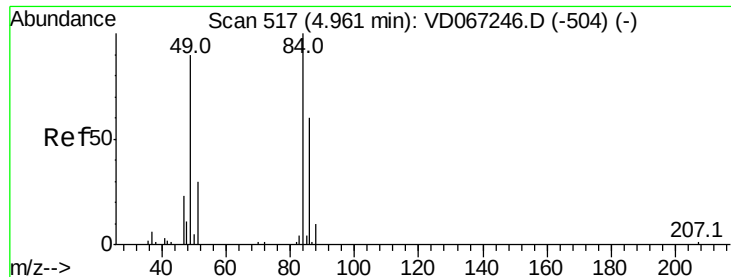
5000

0

4.10 4.12 4.14 4.16 4.18 4.20

Time-->





#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD067346.D

Acq: 21 Oct 2020 14:31

Instrument :

MSVOA_D

ClientSampleId :

34B

Tot Ion: 84 Resp: 1086

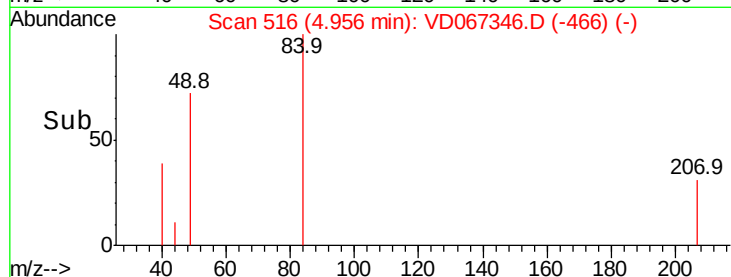
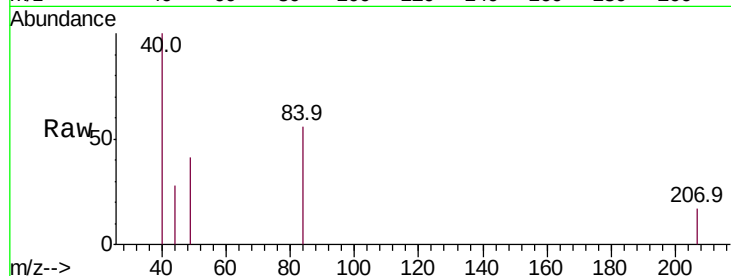
Ion Ratio Lower Upper

84 100

49 72.2 72.2 108.2

51 0.0 23.8 35.8#

86 0.0 48.2 72.4#

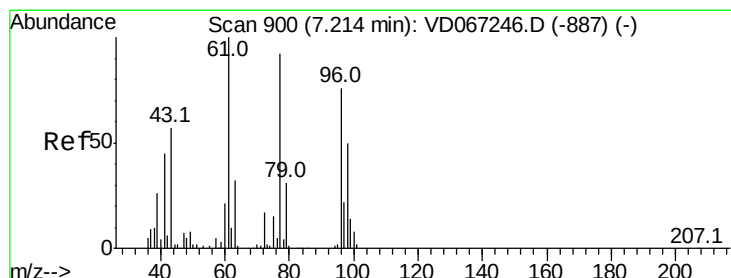
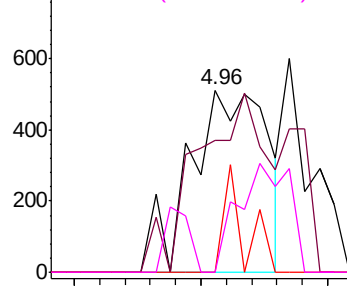


Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#25

2-Butanone

Concen: 12.590 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.02 min

Lab File: VD067346.D

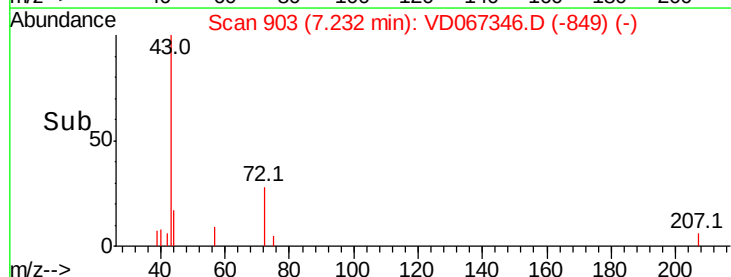
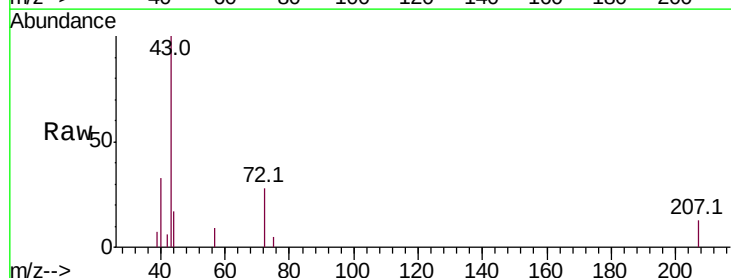
Acq: 21 Oct 2020 14:31

Tgt Ion: 43 Resp: 7070

Ion Ratio Lower Upper

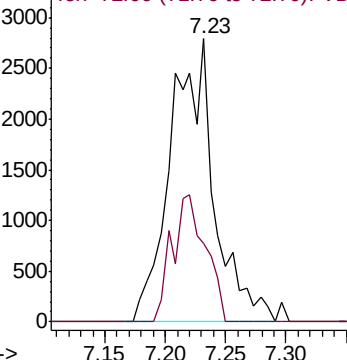
43 100

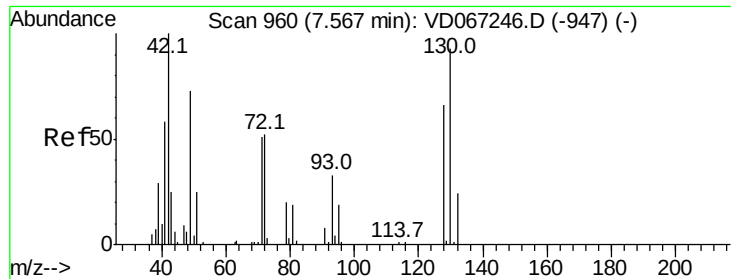
72 27.7 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

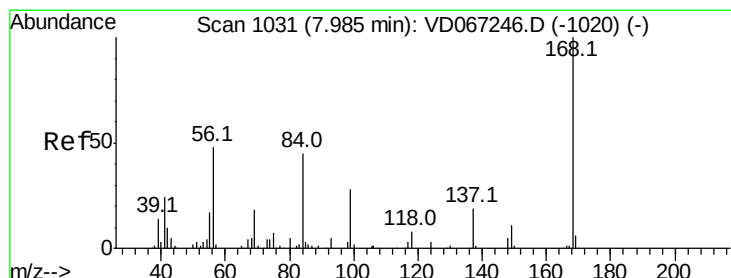
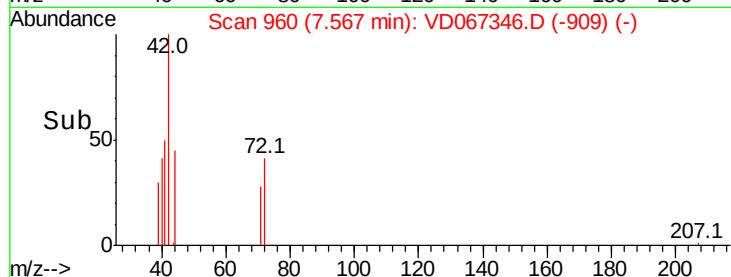
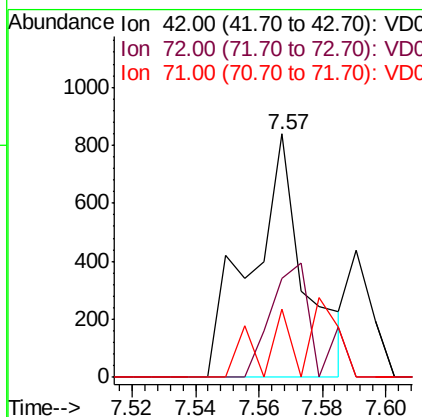
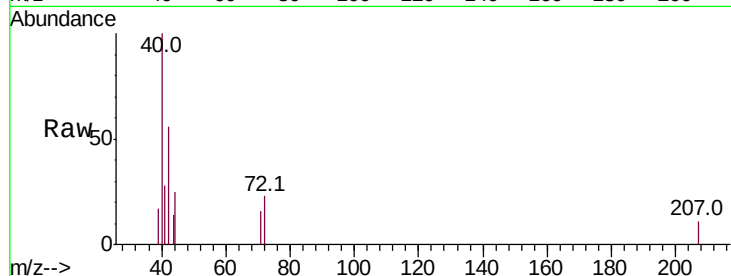




#29
Tetrahydrofuran
Concen: 3.130 ug/l
RT: 7.57 min Scan# 960
Delta R.T. 0.00 min
Lab File: VD067346.D
Acq: 21 Oct 2020 14:31

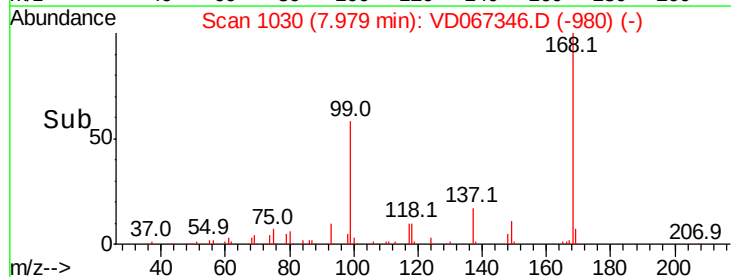
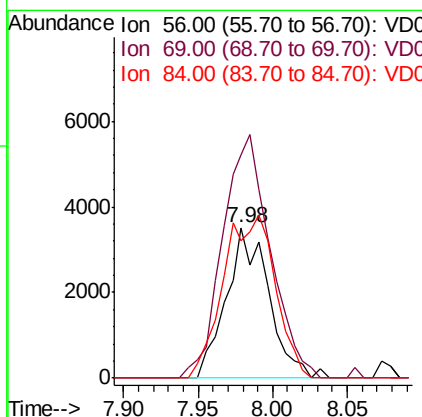
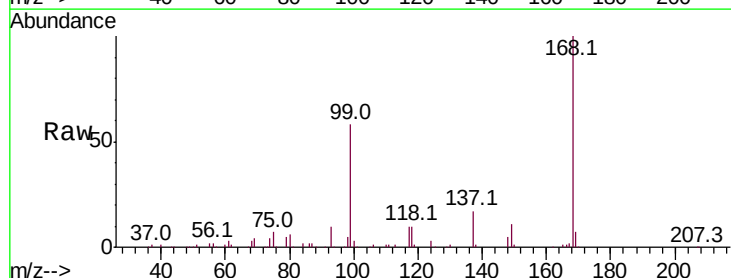
Instrument :
MSVOA_D
ClientSampled :
34B

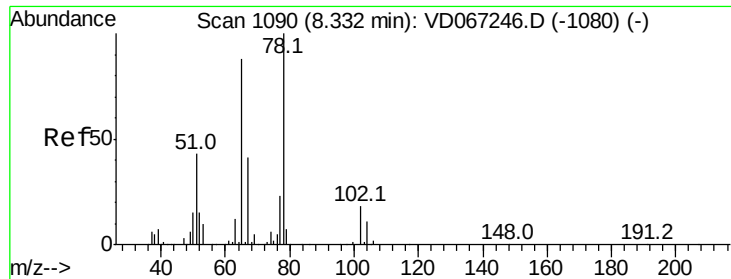
Tot Ion: 42 Resp: 977
Ion Ratio Lower Upper
42 100
72 38.5 43.2 64.8#
71 24.9 39.4 59.0#



#31
Cyclohexane
Concen: 1.716 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD067346.D
Acq: 21 Oct 2020 14:31

Tgt Ion: 56 Resp: 6953
Ion Ratio Lower Upper
56 100
69 148.9 29.8 44.6#
84 91.8 76.6 114.8





#33

1,2-Dichloroethane-d4

Concen: 52.130 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

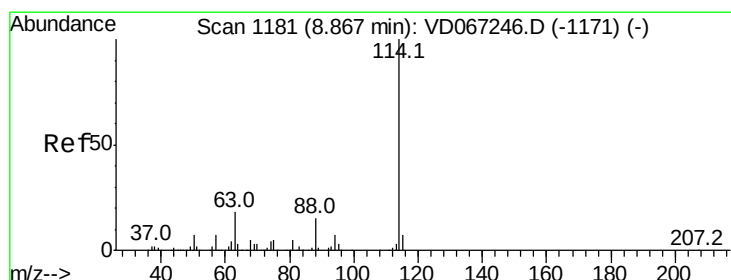
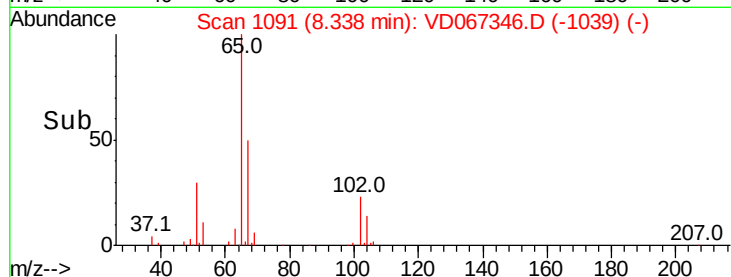
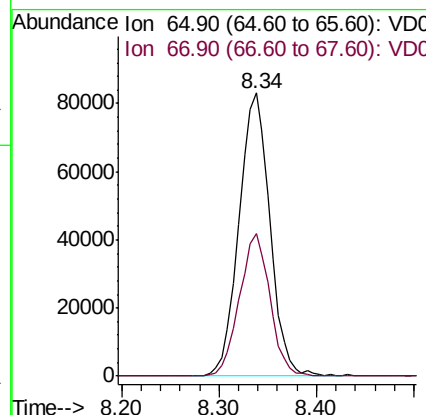
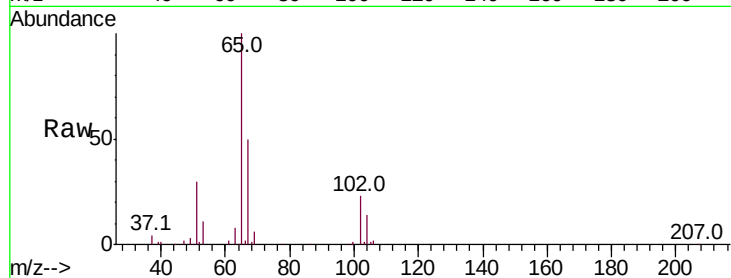
Lab File: VD067346.D

Acq: 21 Oct 2020 14:31

Instrument :
MSVOA_D
ClientSampleId :
34B

Tot Ion: 65 Resp: 183374

Ion	Ratio	Lower	Upper
65	100		
67	49.8	0.0	103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1182

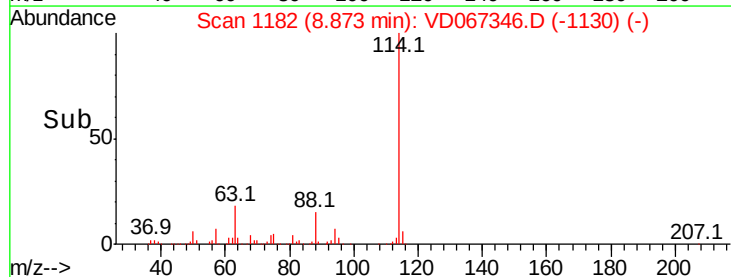
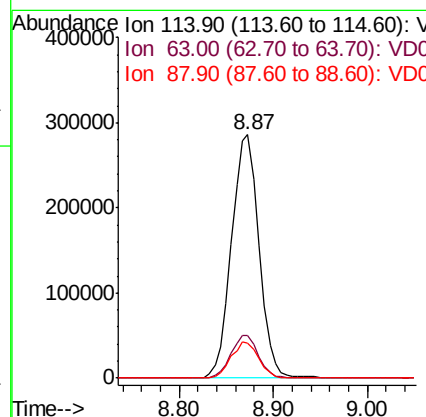
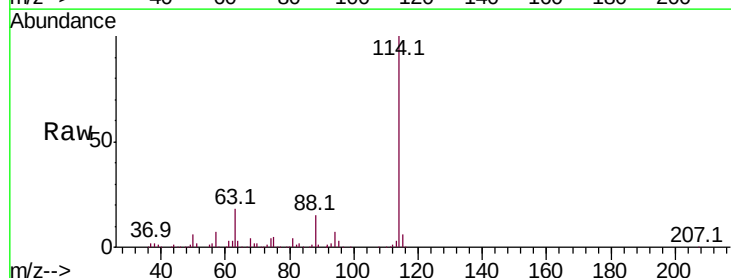
Delta R.T. 0.01 min

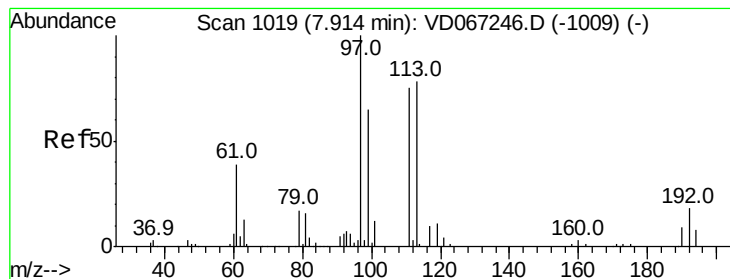
Lab File: VD067346.D

Acq: 21 Oct 2020 14:31

Tgt Ion: 114 Resp: 581112

Ion	Ratio	Lower	Upper
114	100		
63	17.7	0.0	35.0
88	14.6	0.0	30.6





#35

Dibromofluoromethane

Concen: 49.355 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067346.D

Acq: 21 Oct 2020 14:31

Instrument :

MSVOA_D

ClientSampleId :

34B

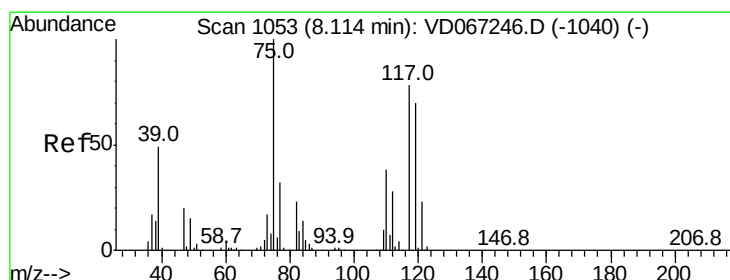
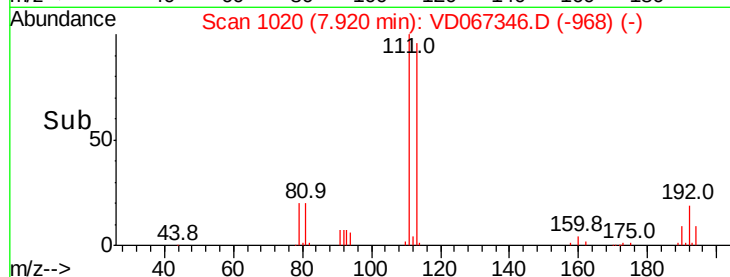
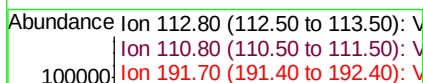
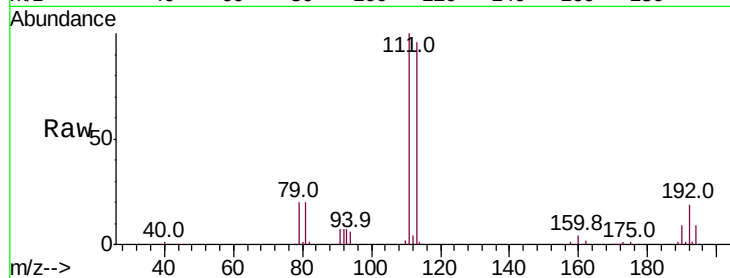
Tot Ion:113 Resp: 190869

Ion Ratio Lower Upper

113 100

111 101.6 81.6 122.4

192 19.0 17.0 25.4



#36

1,1-Dichloropropene

Concen: 4.830 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067346.D

Acq: 21 Oct 2020 14:31

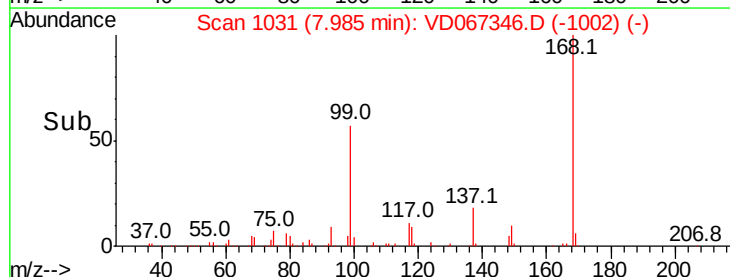
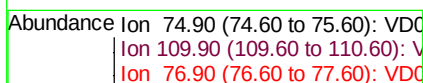
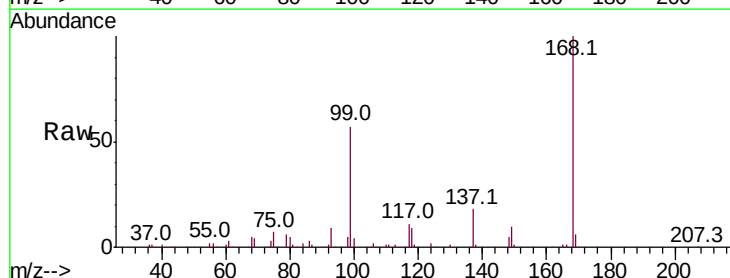
Tgt Ion: 75 Resp: 23791

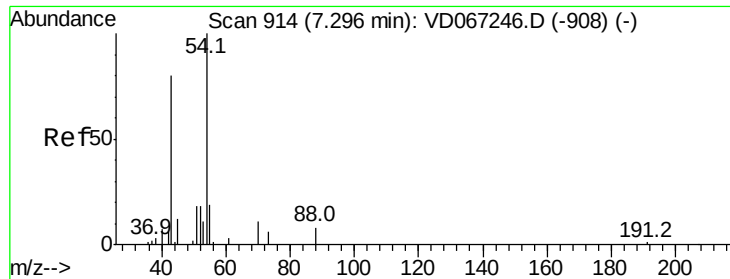
Ion Ratio Lower Upper

75 100

110 11.8 19.6 58.7#

77 0.0 24.6 37.0#

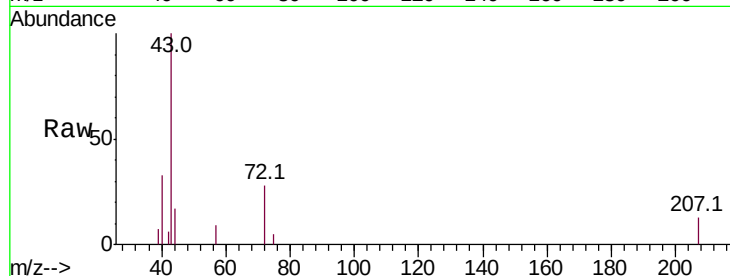




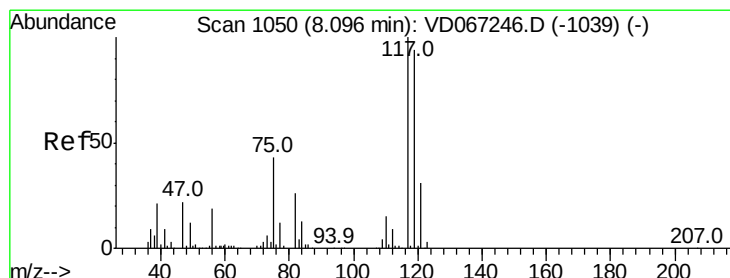
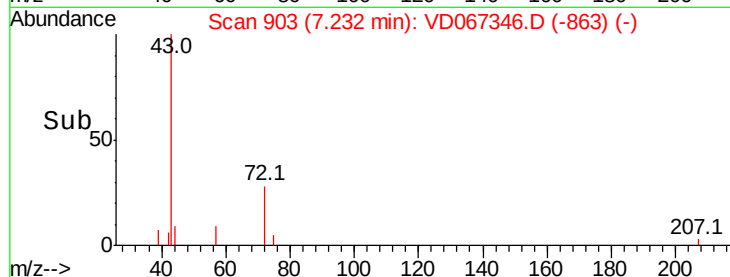
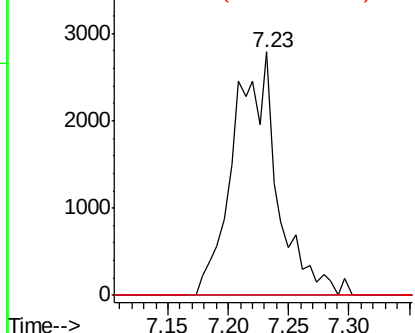
#37
Ethyl Acetate
Concen: 4.879 ug/l
RT: 7.23 min Scan# 903
Delta R.T. -0.06 min
Lab File: VD067346.D
Acq: 21 Oct 2020 14:31

Instrument :
MSVOA_D
ClientSampleId :
34B

Tot Ion: 43 Resp: 7070
Ion Ratio Lower Upper
43 100
61 0.0 15.6 23.4#
70 0.0 10.4 15.6#

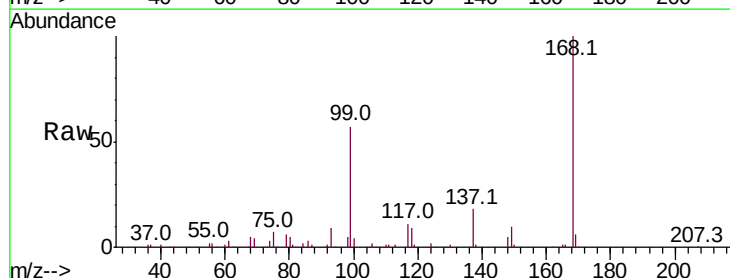


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

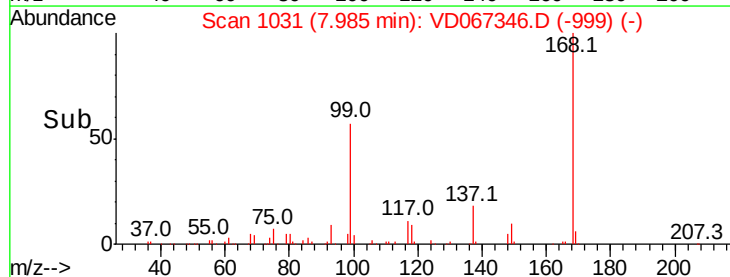
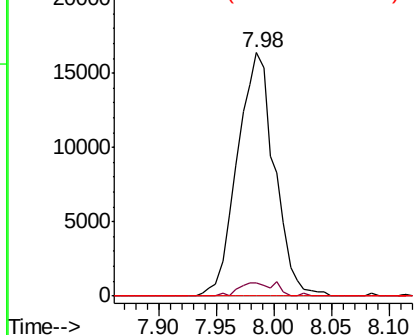


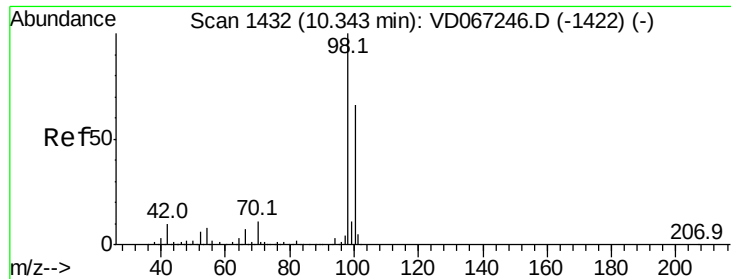
#38
Carbon Tetrachloride
Concen: 5.810 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD067346.D
Acq: 21 Oct 2020 14:31

Tgt Ion: 117 Resp: 36573
Ion Ratio Lower Upper
117 100
119 5.2 75.0 112.4#
121 0.0 24.9 37.3#



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

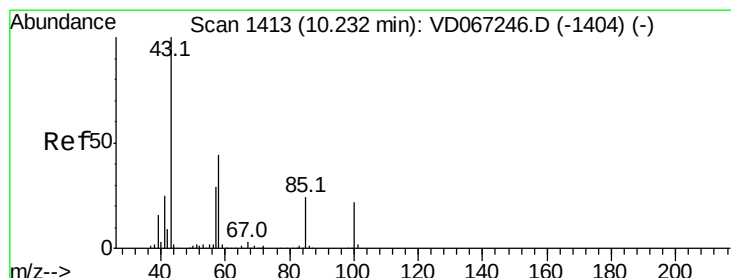
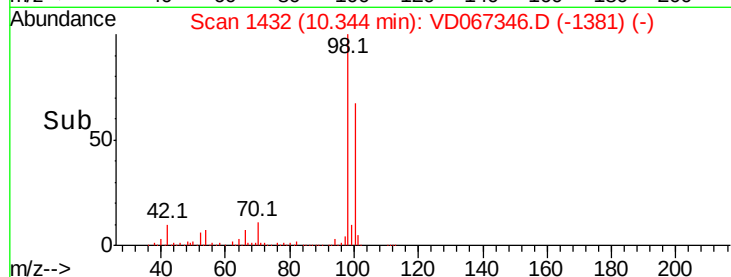
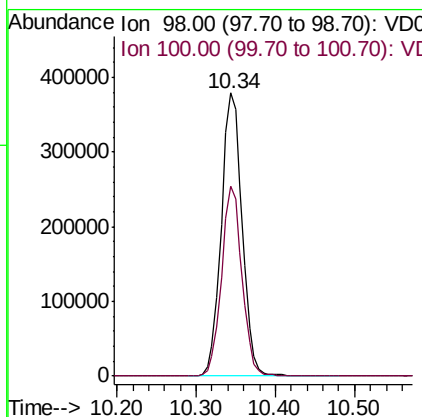
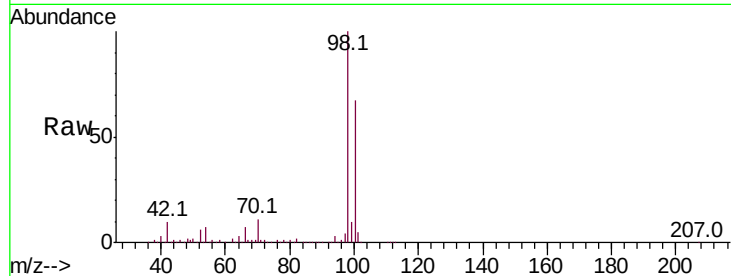




#50
Toluene-d8
Concen: 49.177 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067346.D
Acq: 21 Oct 2020 14:31

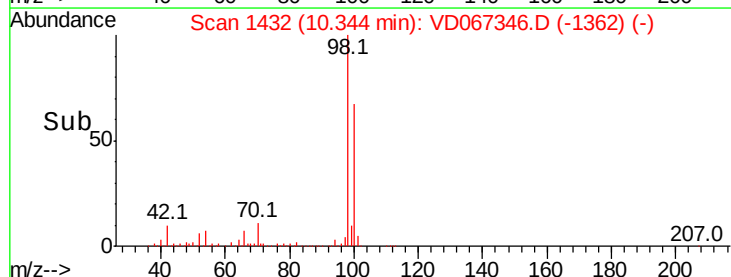
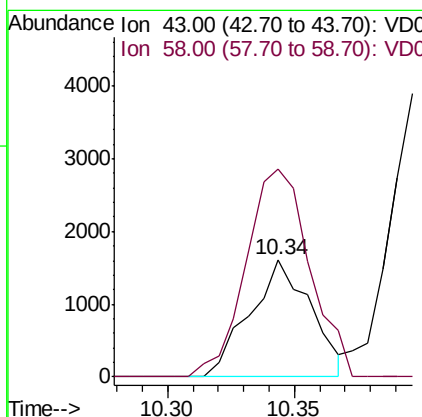
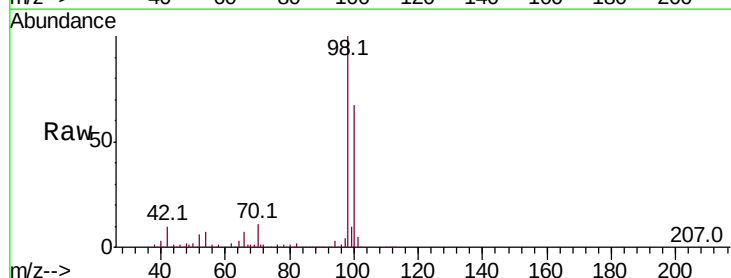
Instrument :
MSVOA_D
ClientSampleId :
34B

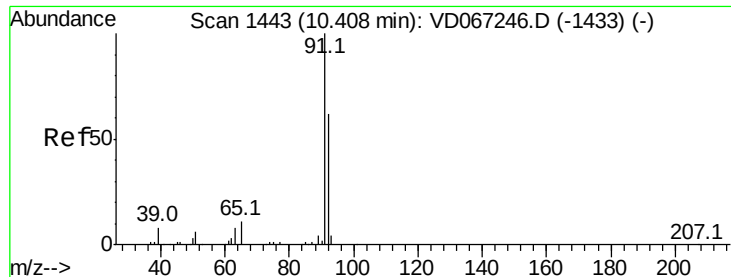
Tot Ion: 98 Resp: 688257
Ion Ratio Lower Upper
98 100
100 65.5 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 1.876 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.11 min
Lab File: VD067346.D
Acq: 21 Oct 2020 14:31

Tgt Ion: 43 Resp: 2691
Ion Ratio Lower Upper
43 100
58 187.0 35.7 53.5#





#52

Toluene

Concen: 190.770 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD067346.D

Acq: 21 Oct 2020 14:31

Instrument :

MSVOA_D

ClientSampleId :

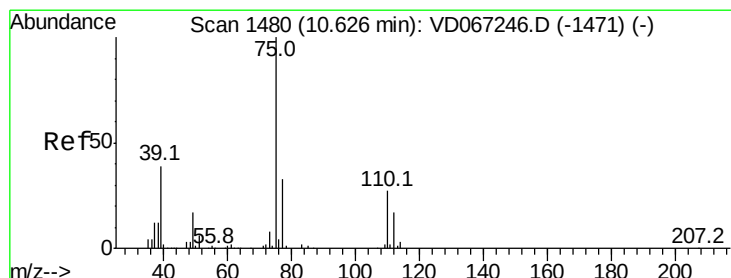
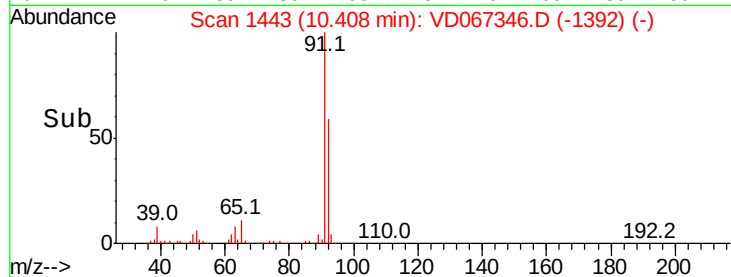
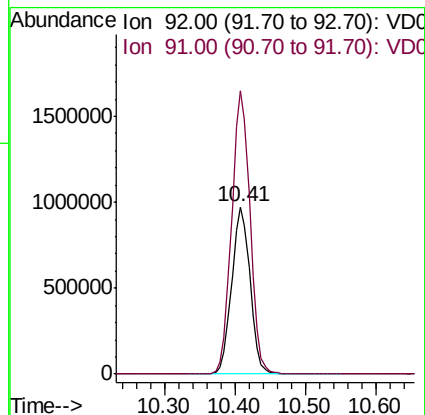
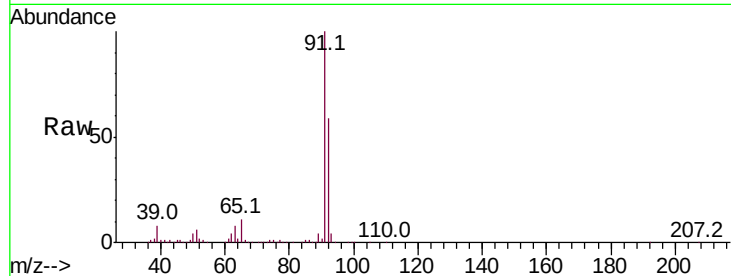
34B

Tot Ion: 92 Resp: 1755671

Ion Ratio Lower Upper

92 100

91 170.0 133.8 200.8



#53

t-1,3-Dichloropropene

Concen: 4.811 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. -0.22 min

Lab File: VD067346.D

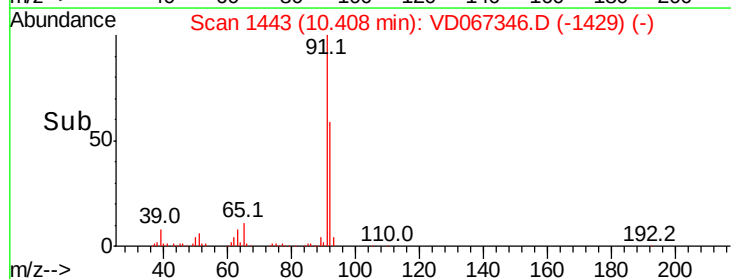
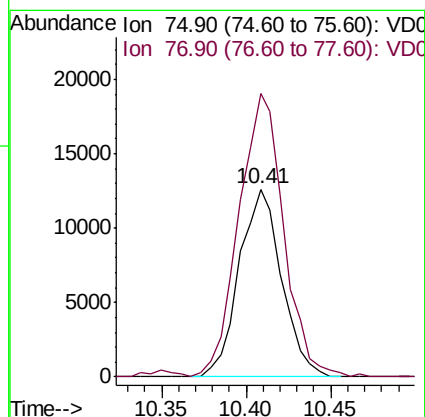
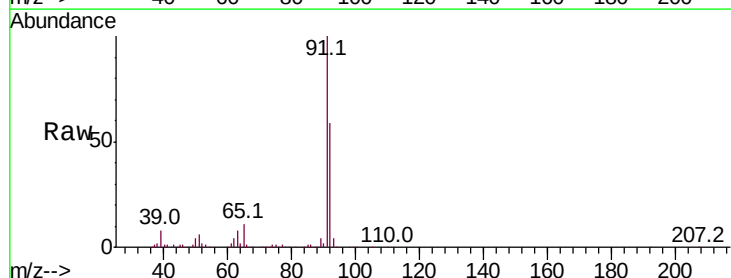
Acq: 21 Oct 2020 14:31

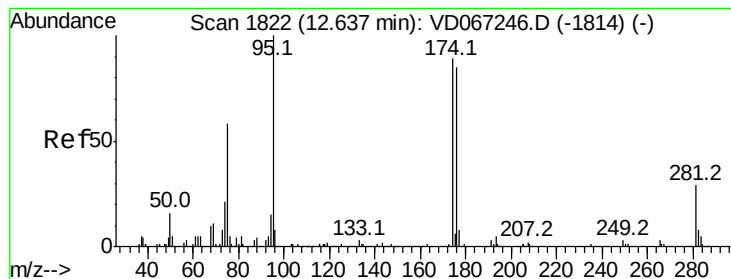
Tgt Ion: 75 Resp: 22091

Ion Ratio Lower Upper

75 100

77 150.8 26.5 39.7#





#62

4-Bromofluorobenzene

Concen: 50.515 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067346.D

Acq: 21 Oct 2020 14:31

Instrument :

MSVOA_D

ClientSampleId :

34B

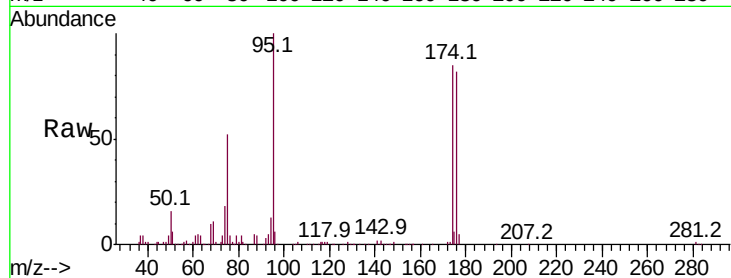
Tot Ion: 95 Resp: 245832

Ion Ratio Lower Upper

95 100

174 86.6 0.0 175.2

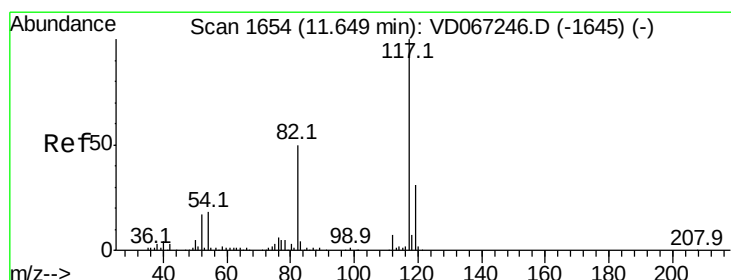
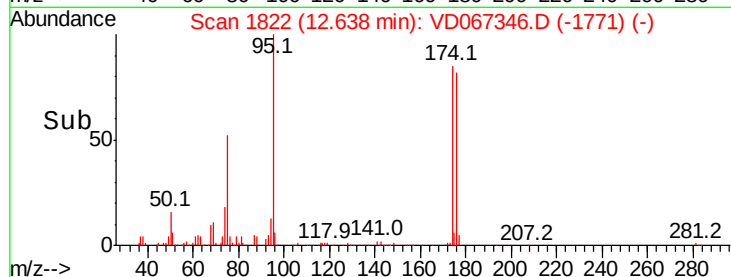
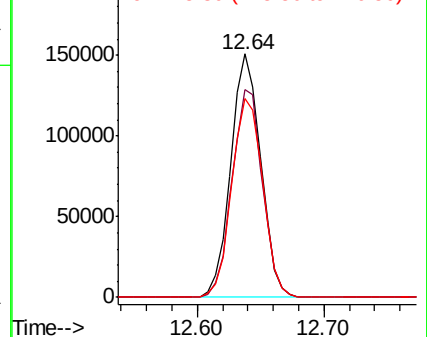
176 84.4 0.0 168.6



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: VD067346.D

Acq: 21 Oct 2020 14:31

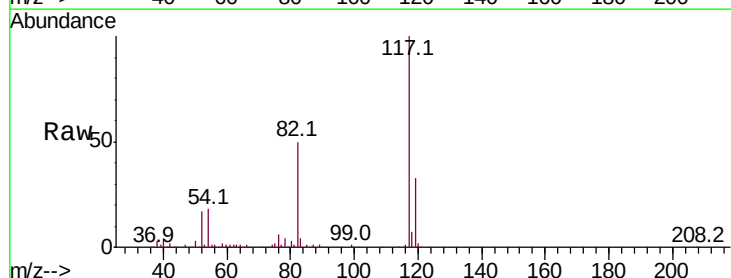
Tgt Ion: 117 Resp: 558496

Ion Ratio Lower Upper

117 100

82 50.4 39.9 59.9

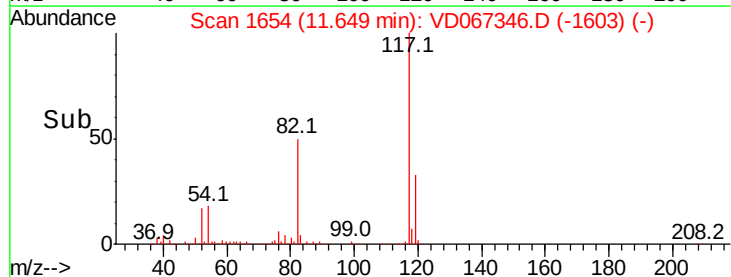
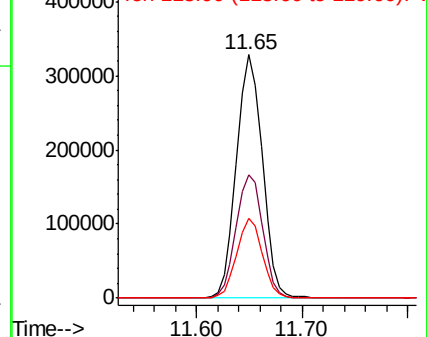
119 32.6 24.9 37.3

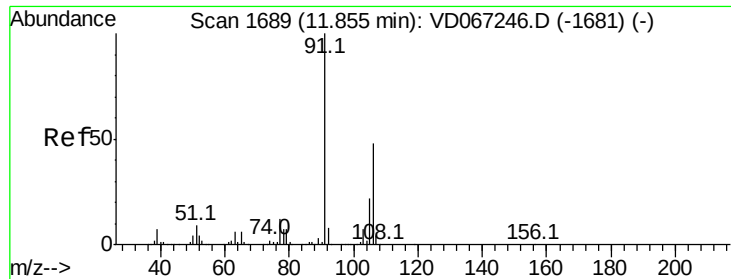


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

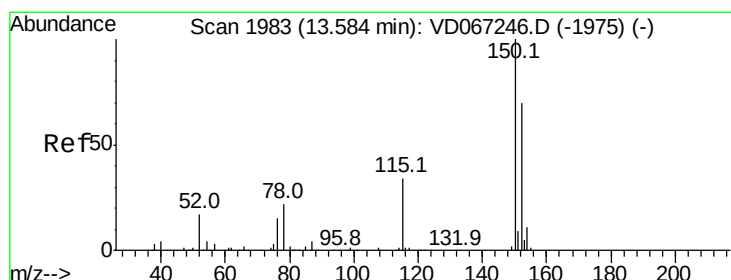
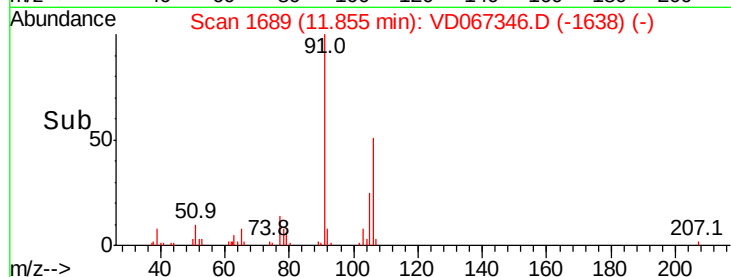
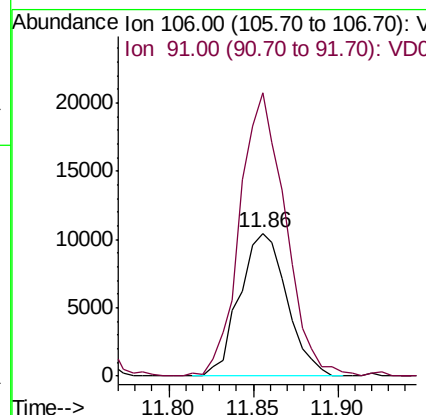
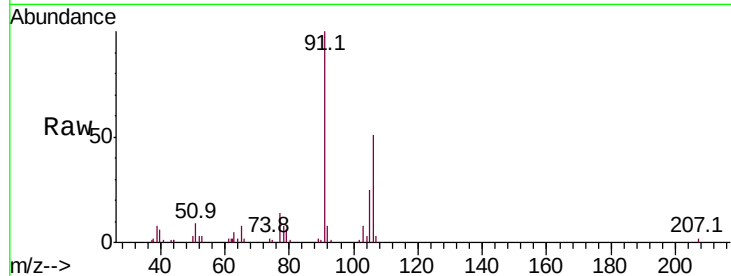




#68
m/p-Xvlenes
Concen: 2.874 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD067346.D
Acq: 21 Oct 2020 14:31

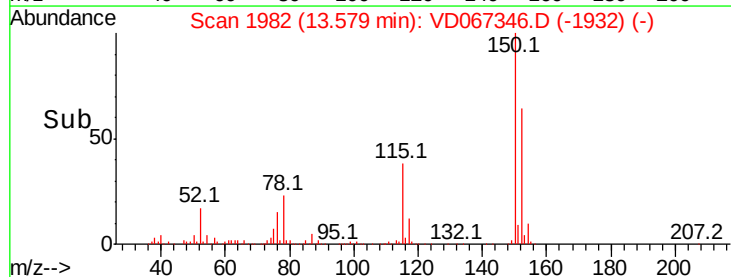
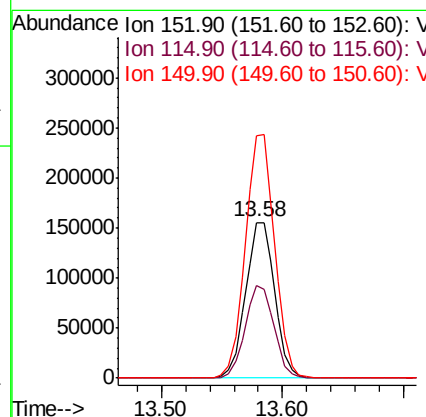
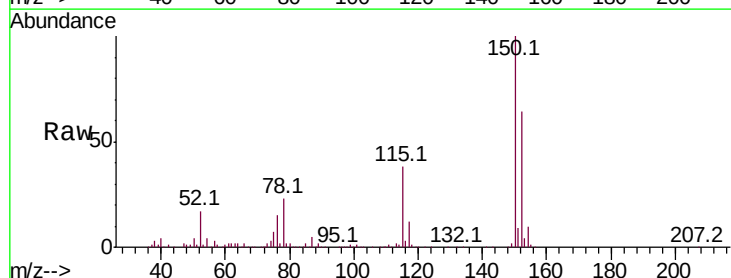
Instrument :
MSVOA_D
ClientSampleId :
34B

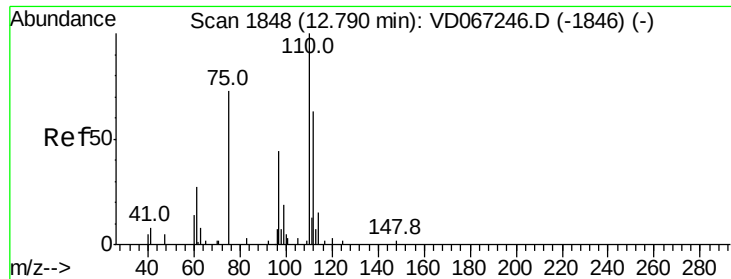
Tot Ion:106 Resp: 20319
Ion Ratio Lower Upper
106 100
91 191.5 163.8 245.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067346.D
Acq: 21 Oct 2020 14:31

Tgt Ion:152 Resp: 261266
Ion Ratio Lower Upper
152 100
115 59.0 29.3 87.9
150 157.3 0.0 339.0





#76

1,2,3-Trichloropropane

Concen: 69.228 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067346.D

Acq: 21 Oct 2020 14:31

Instrument :

MSVOA_D

ClientSampleId :

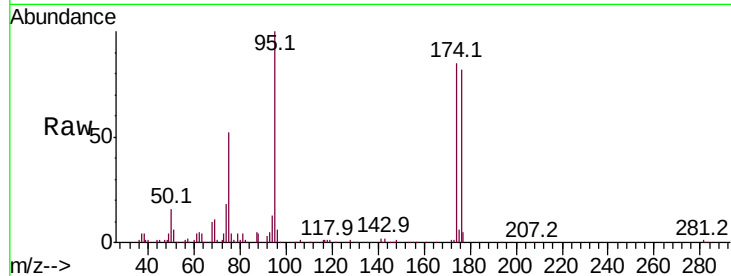
34B

Tot Ion: 75 Resp: 125360

Ion Ratio Lower Upper

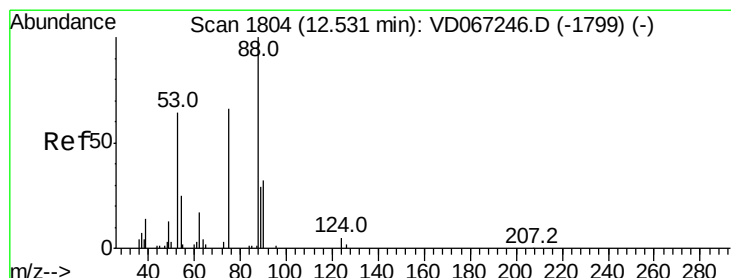
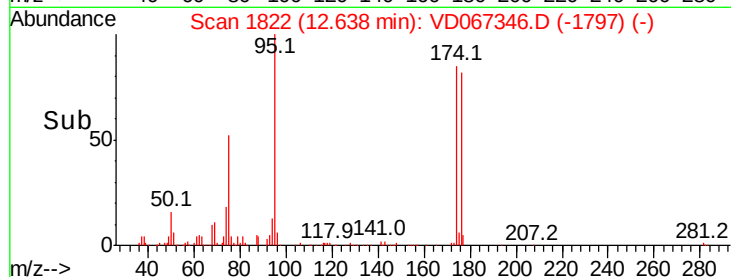
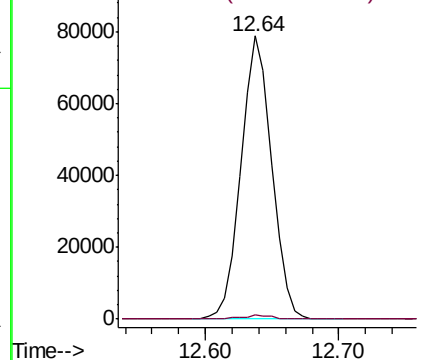
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 156.989 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067346.D

Acq: 21 Oct 2020 14:31

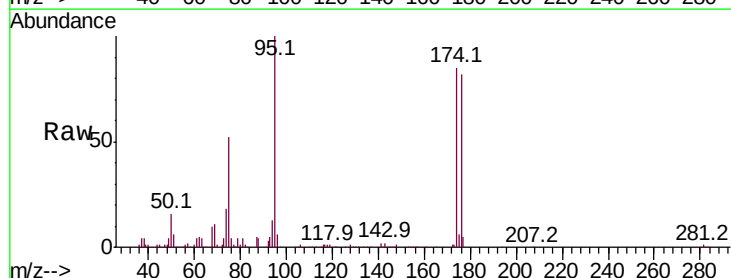
Tgt Ion: 75 Resp: 125360

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 39.9 59.9#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

