

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092920\
 Data File : VD066945.D
 Acq On : 29 Sep 2020 18:10
 Operator : VA/SY
 Sample : L4179-08
 Misc : 5.03G/5.00ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-11(1-2)

Quant Time: Sep 30 02:37:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 23 01:34:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	409764	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	692485	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	729941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	354636	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	193019	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
35) Dibromofluoromethane	7.91	113	219312	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	
50) Toluene-d8	10.34	98	840071	55.97	ug/l	0.00
Spiked Amount			Recovery	=	111.94%	
62) 4-Bromofluorobenzene	12.63	95	319317	62.14	ug/l	0.00
Spiked Amount			Recovery	=	124.28%	

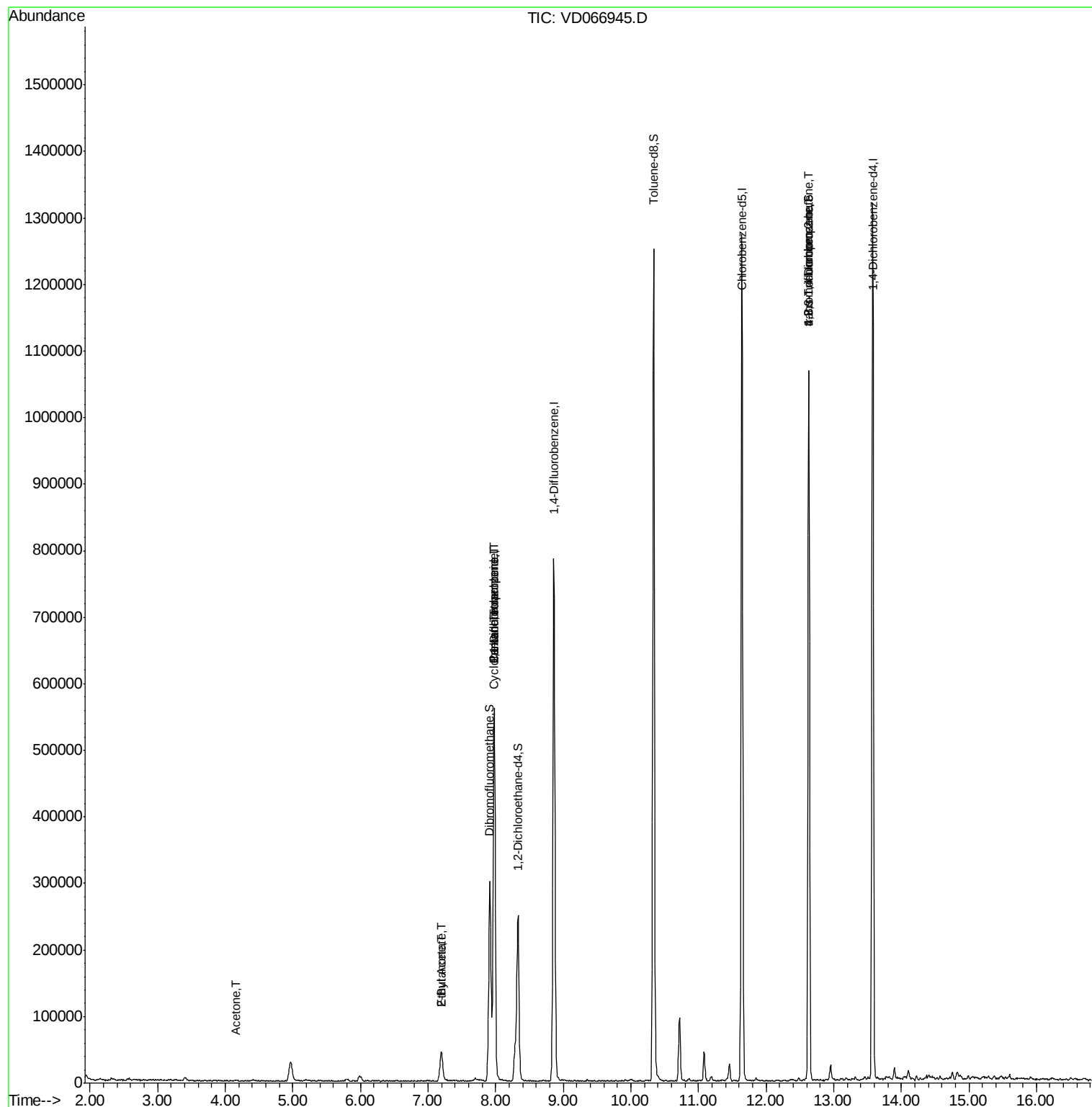
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	481	Below Cal	#	46
11) Tert butyl alcohol	5.16	59	1682	Below Cal	#	72
16) Acetone	4.16	43	955	1.122	ug/l #	32
18) Methyl Acetate	4.95	43	780	Below Cal	#	50
20) Methylene Chloride	4.97	84	24021	Below Cal		91
25) 2-Butanone	7.19	43	2596	2.539	ug/l #	46
31) Cyclohexane	7.97	56	9407	1.290	ug/l #	36
36) 1,1-Dichloropropene	7.98	75	31406	4.571	ug/l #	51
37) Ethyl Acetate	7.19	43	2596	1.045	ug/l #	1
38) Carbon Tetrachloride	7.98	117	43122	5.741	ug/l #	18
76) 1,2,3-Trichloropropane	12.63	75	164518	55.979	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	164518	140.054	ug/l #	10

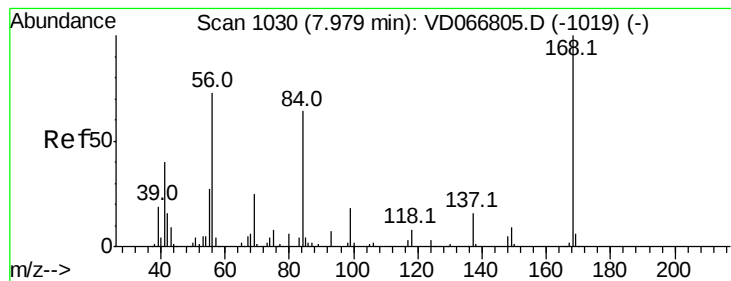
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 23 01:34:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066945.D

Acq: 29 Sep 2020 18:10

Instrument :

MSVOA_D

ClientSampleId :

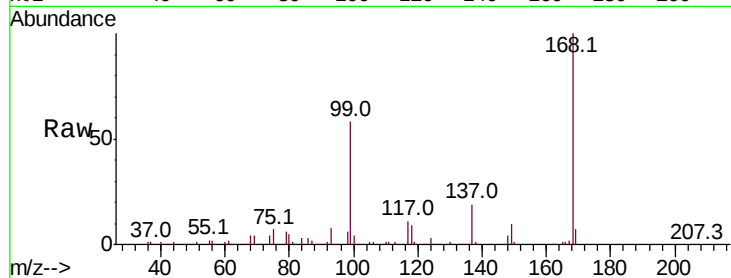
B-11(1-2)

Tot Ion:168 Resp: 409764

Ion Ratio Lower Upper

168 100

99 57.7 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

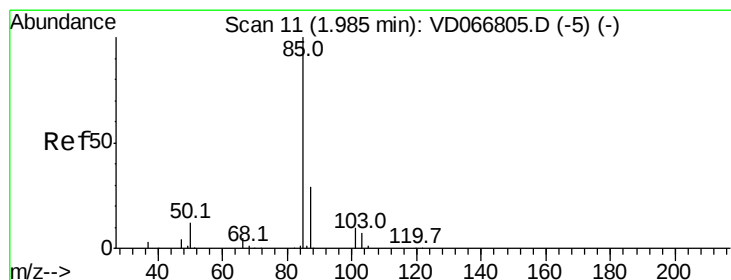
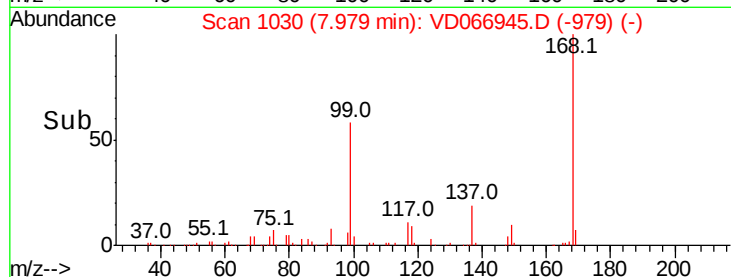
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD066945.D

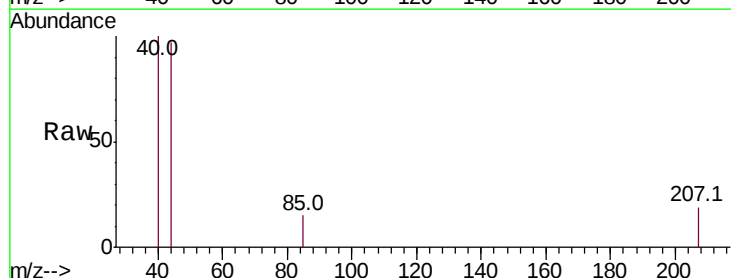
Acq: 29 Sep 2020 18:10

Tgt Ion: 85 Resp: 481

Ion Ratio Lower Upper

85 100

87 0.0 14.5 43.5#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

500

400

300

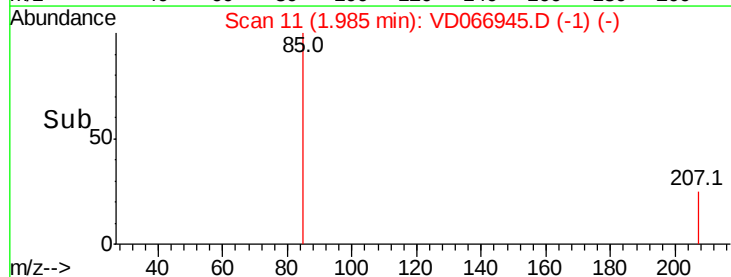
200

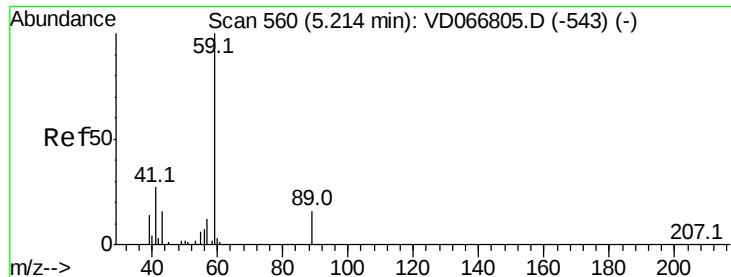
100

0

1.96 1.98 2.00 2.02

Time-->



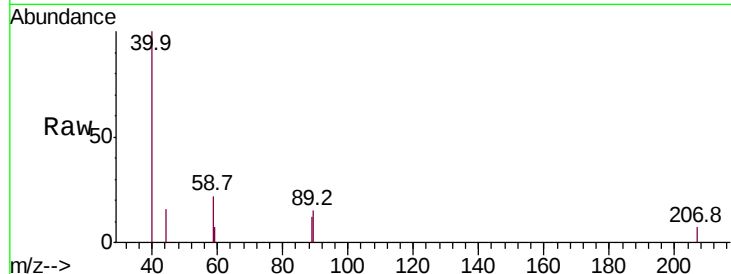


#11

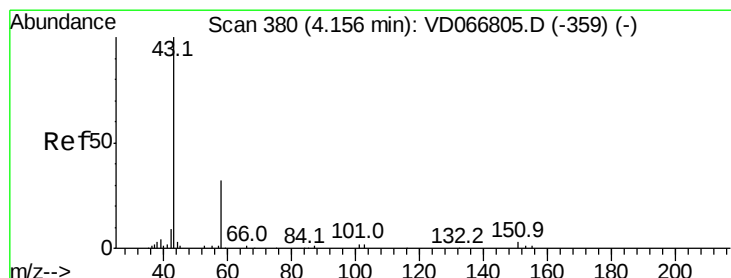
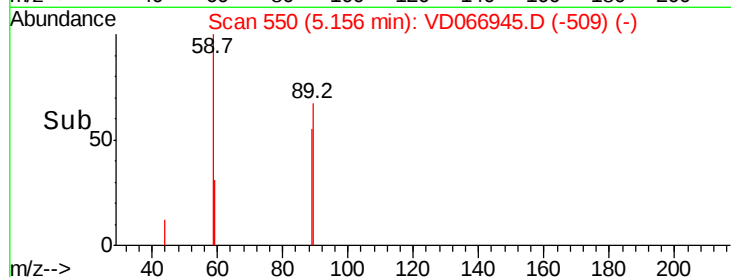
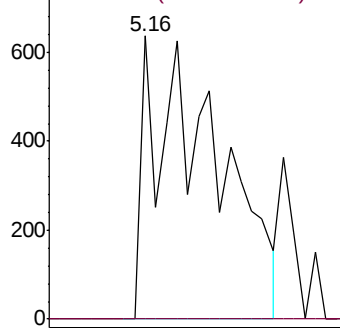
Tert butyl alcohol
 Concen: Below Cal
 RT: 5.16 min Scan# 550
 Delta R.T. -0.06 min
 Lab File: VD066945.D
 Acq: 29 Sep 2020 18:10

Instrument :
 MSVOA_D
 ClientSampleId :
 B-11(1-2)

Tot Ion: 59 Resp: 1682
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#



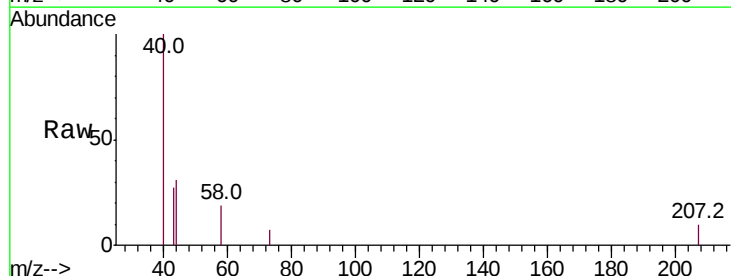
Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



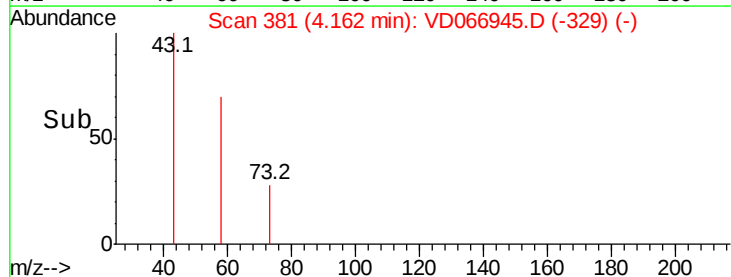
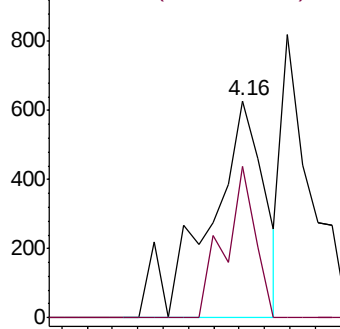
#16

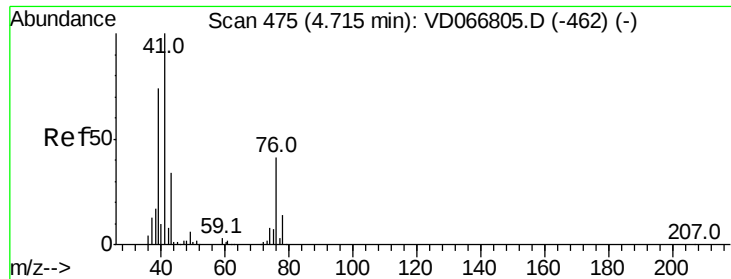
Acetone
 Concen: 1.122 ug/l
 RT: 4.16 min Scan# 381
 Delta R.T. 0.01 min
 Lab File: VD066945.D
 Acq: 29 Sep 2020 18:10

Tgt Ion: 43 Resp: 955
 Ion Ratio Lower Upper
 43 100
 58 69.7 25.6 38.4#



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

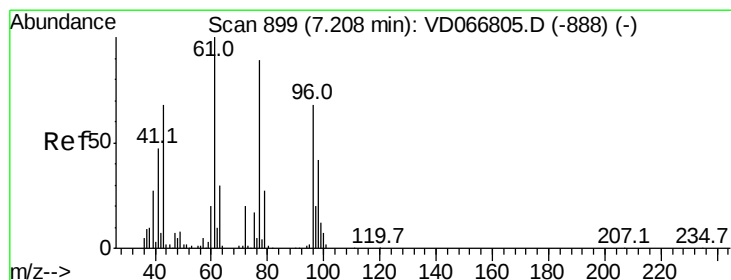
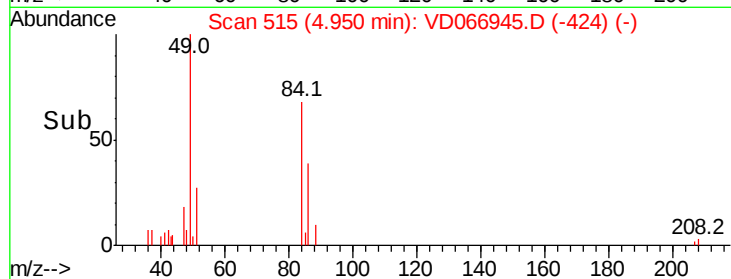
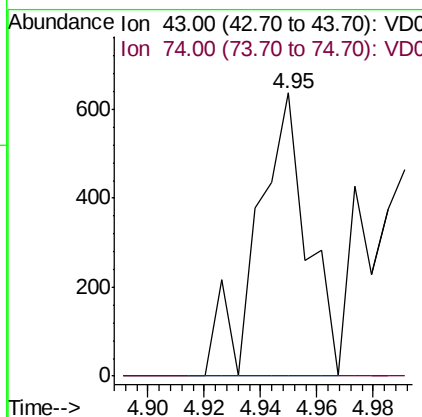
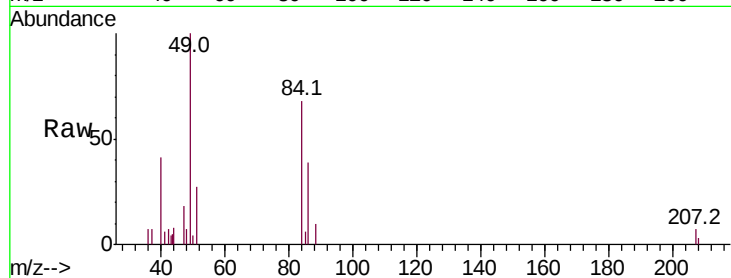




#18
Methyl Acetate
Concen: Below Cal
RT: 4.95 min Scan# 515
Delta R.T. 0.24 min
Lab File: VD066945.D
Acq: 29 Sep 2020 18:10

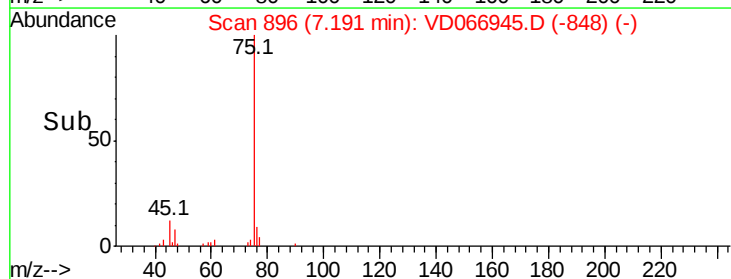
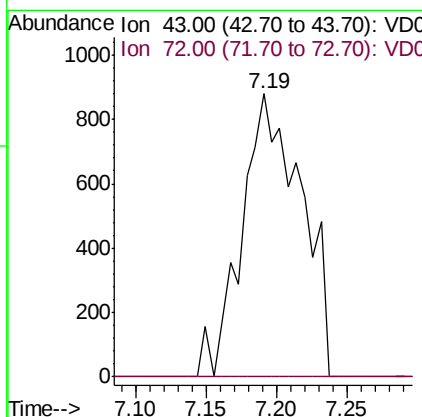
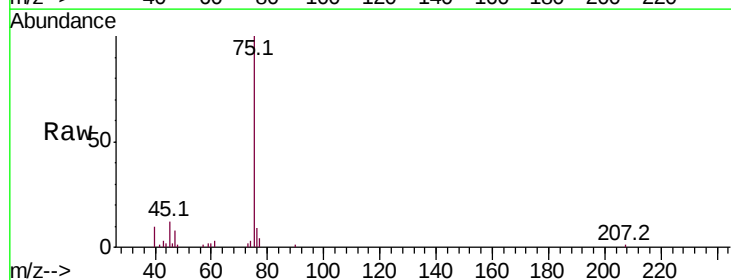
Instrument :
MSVOA_D
ClientSampleId :
B-11(1-2)

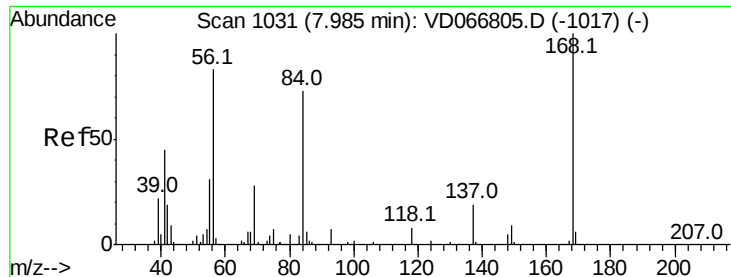
Tot Ion: 43 Resp: 780
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#25
2-Butanone
Concen: 2.539 ug/l
RT: 7.19 min Scan# 896
Delta R.T. -0.02 min
Lab File: VD066945.D
Acq: 29 Sep 2020 18:10

Tgt Ion: 43 Resp: 2596
Ion Ratio Lower Upper
43 100
72 0.0 22.9 34.3#

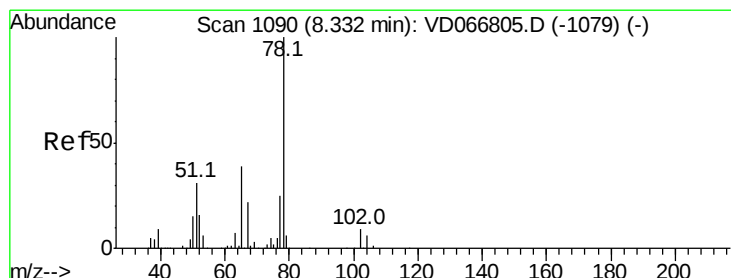
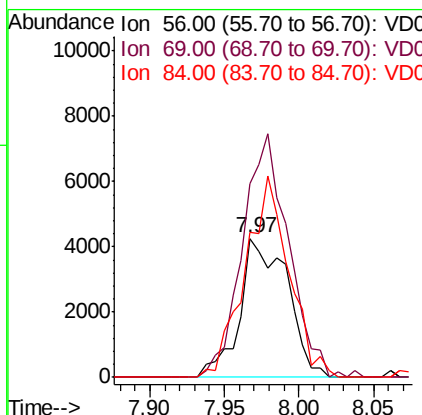
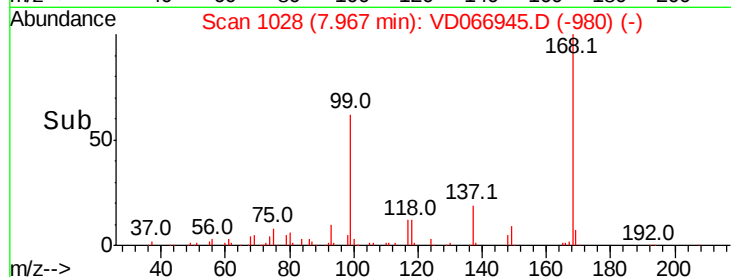
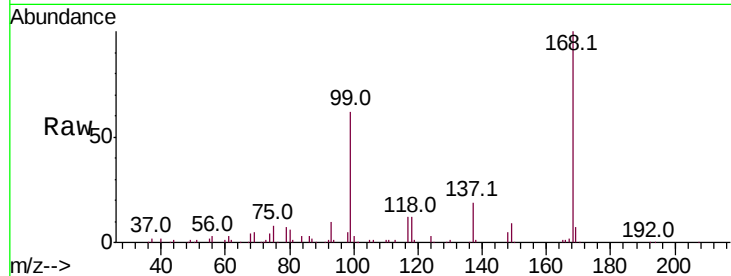




#31
Cyclohexane
Concen: 1.290 ug/l
RT: 7.97 min Scan# 1028
Delta R.T. -0.02 min
Lab File: VD066945.D
Acq: 29 Sep 2020 18:10

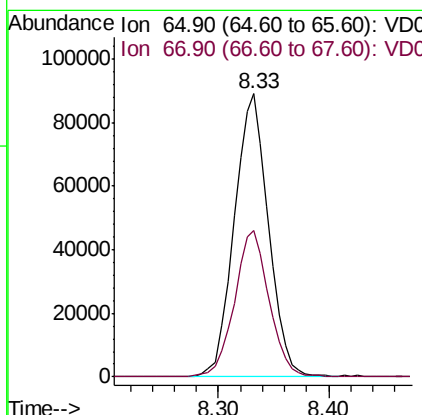
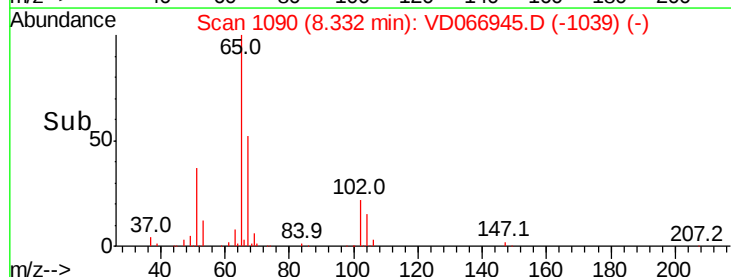
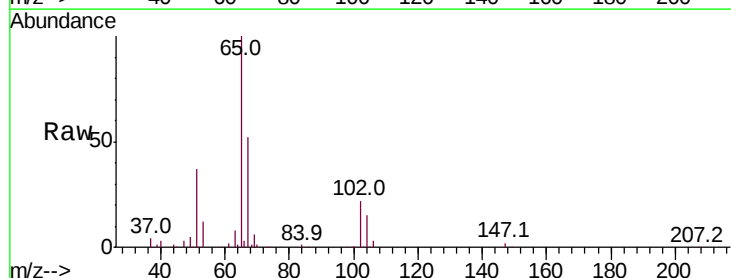
Instrument :
MSVOA_D
ClientSampleId :
B-11(1-2)

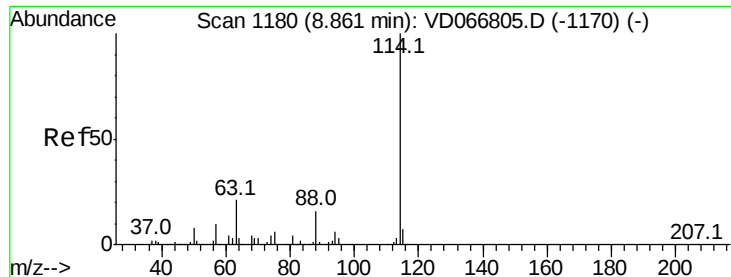
Tot Ion: 56 Resp: 9407
Ion Ratio Lower Upper
56 100
69 138.9 27.0 40.4#
84 104.4 70.2 105.4



#33
1,2-Dichloroethane-d4
Concen: 48.127 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VD066945.D
Acq: 29 Sep 2020 18:10

Tgt Ion: 65 Resp: 193019
Ion Ratio Lower Upper
65 100
67 52.4 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066945.D

Acq: 29 Sep 2020 18:10

Instrument :

MSVOA_D

ClientSampleId :

B-11(1-2)

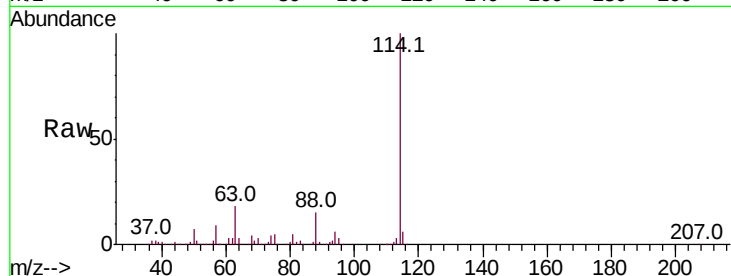
Tot Ion:114 Resp: 692485

Ion Ratio Lower Upper

114 100

63 18.4 0.0 42.6

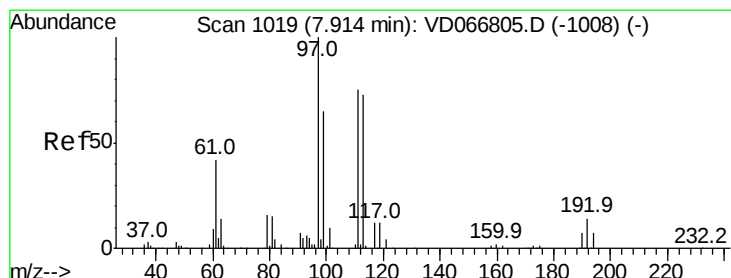
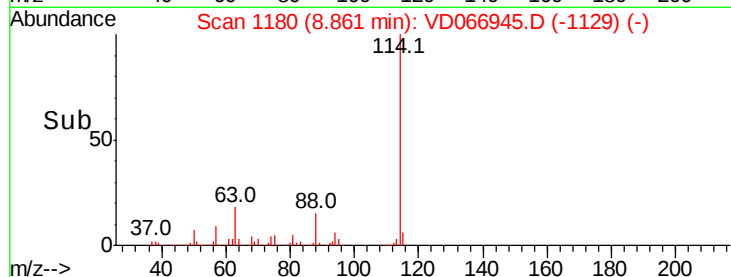
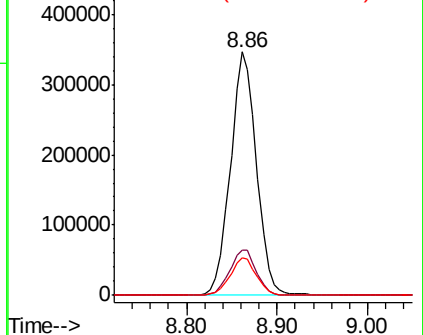
88 15.3 0.0 32.6



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: 49.780 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.00 min

Lab File: VD066945.D

Acq: 29 Sep 2020 18:10

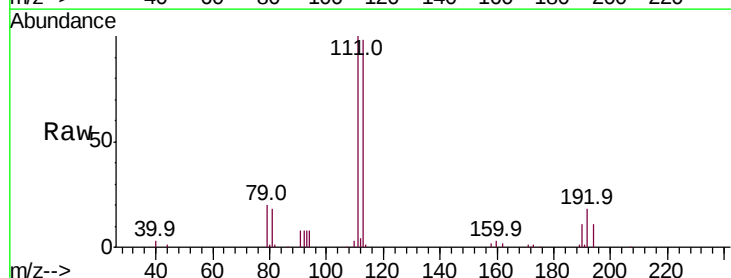
Tgt Ion:113 Resp: 219312

Ion Ratio Lower Upper

113 100

111 99.6 81.8 122.8

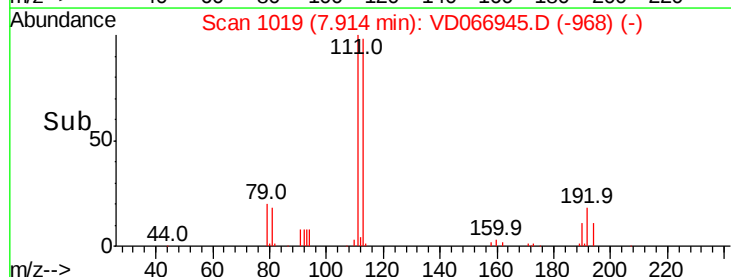
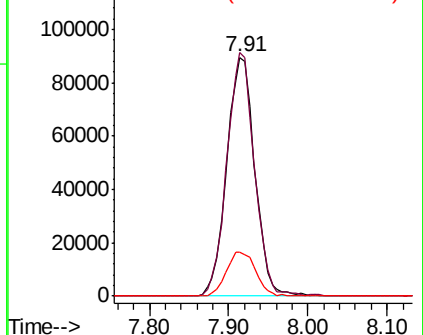
192 19.4 14.4 21.6

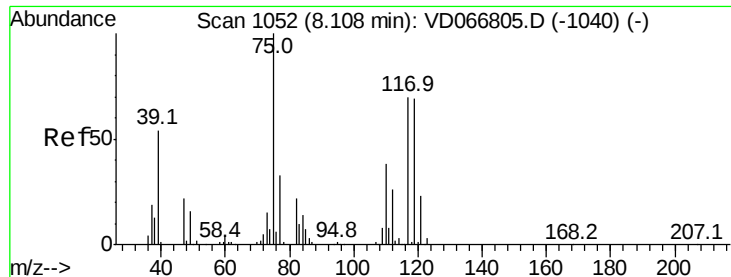


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.571 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD066945.D

Acq: 29 Sep 2020 18:10

Instrument :

MSVOA_D

ClientSampled :

B-11(1-2)

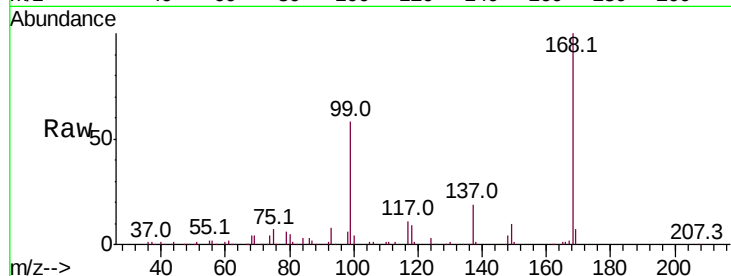
Tot Ion: 75 Resp: 31406

Ion Ratio Lower Upper

75 100

110 10.7 17.9 53.8#

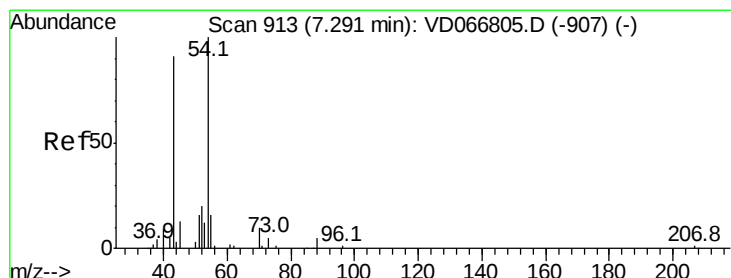
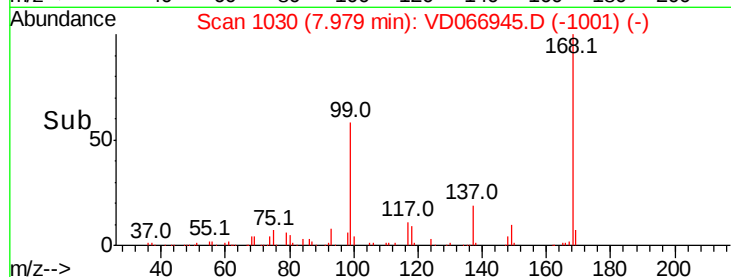
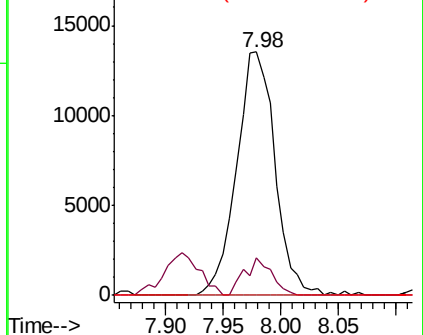
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: 1.045 ug/l

RT: 7.19 min Scan# 896

Delta R.T. -0.10 min

Lab File: VD066945.D

Acq: 29 Sep 2020 18:10

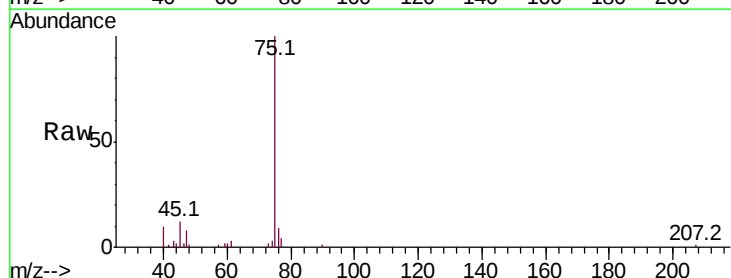
Tgt Ion: 43 Resp: 2596

Ion Ratio Lower Upper

43 100

61 96.4 9.8 14.8#

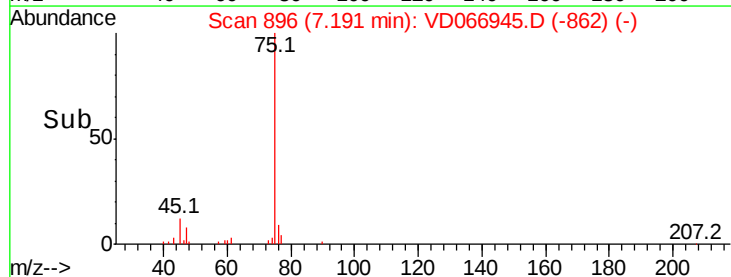
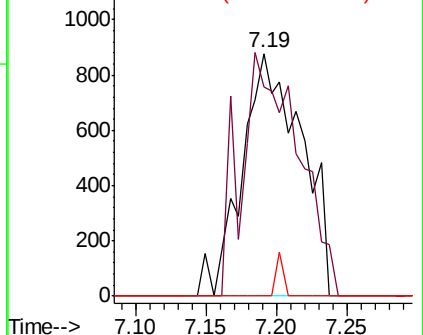
70 2.1 8.5 12.7#

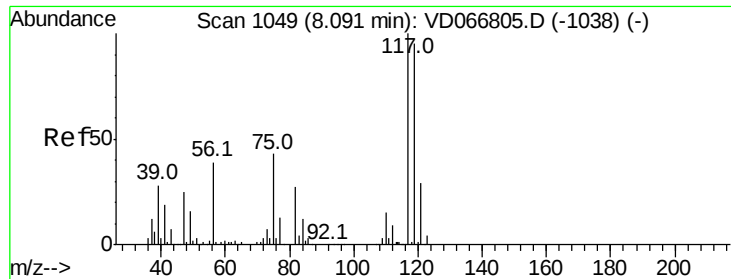


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.741 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066945.D

Acq: 29 Sep 2020 18:10

Instrument :

MSVOA_D

ClientSampleId :

B-11(1-2)

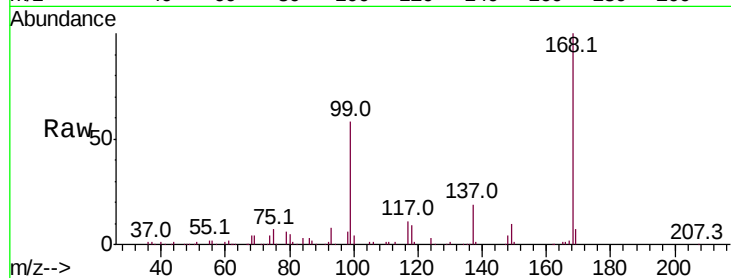
Tot Ion:117 Resp: 43122

Ion Ratio Lower Upper

117 100

119 6.5 75.8 113.8#

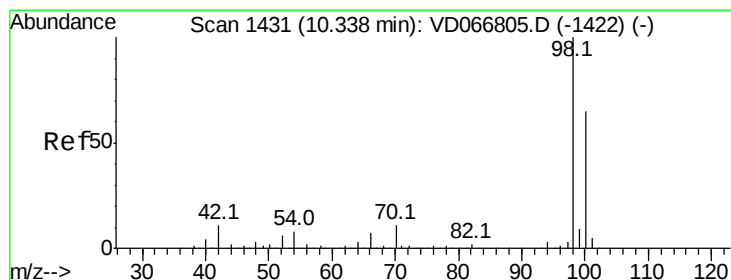
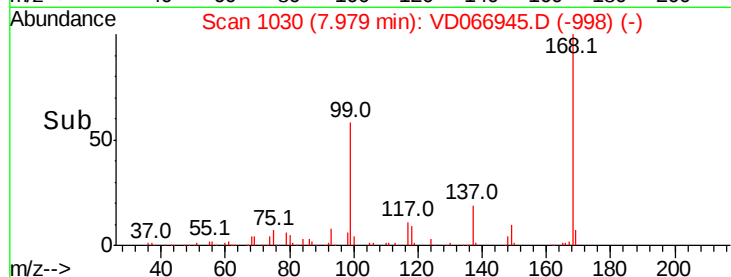
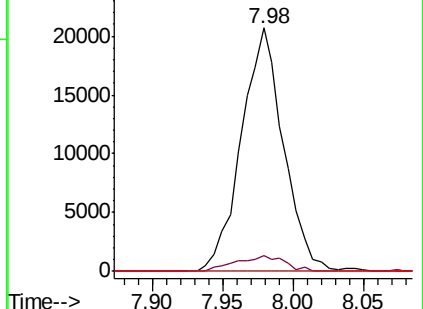
121 0.0 23.4 35.0#



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: 55.965 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066945.D

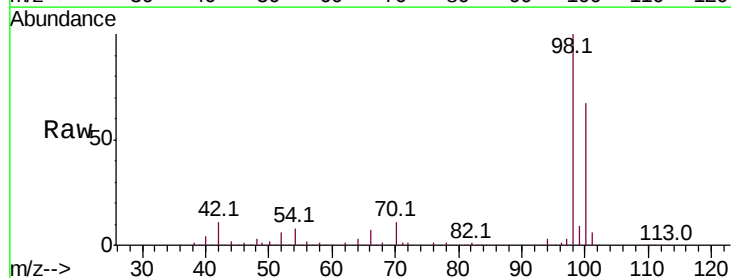
Acq: 29 Sep 2020 18:10

Tgt Ion: 98 Resp: 840071

Ion Ratio Lower Upper

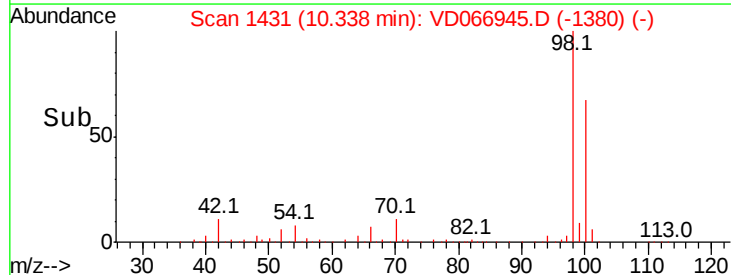
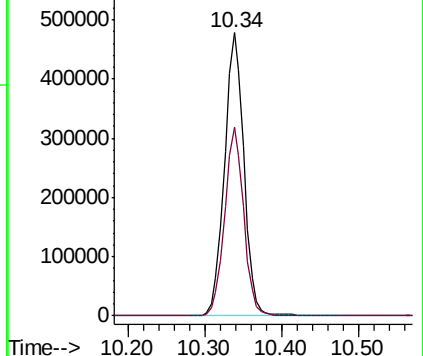
98 100

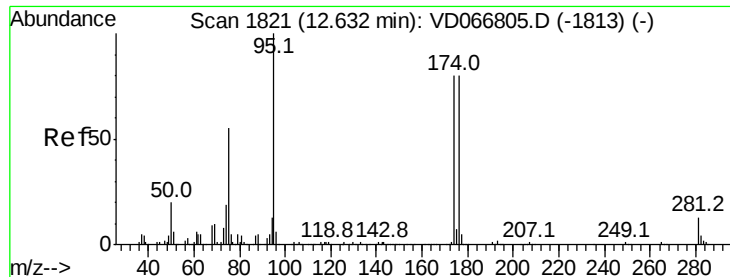
100 65.3 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 62.140 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066945.D

Acq: 29 Sep 2020 18:10

Instrument :

MSVOA_D

ClientSampleId :

B-11(1-2)

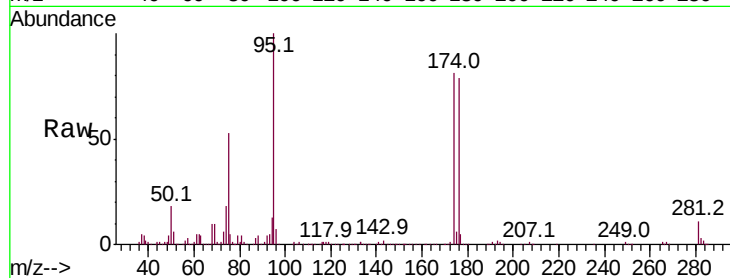
Tot Ion: 95 Resp: 319317

Ion Ratio Lower Upper

95 100

174 82.2 0.0 159.8

176 78.5 0.0 154.4



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

12.63

250000

200000

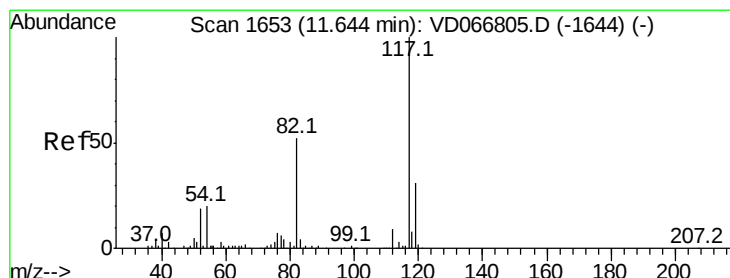
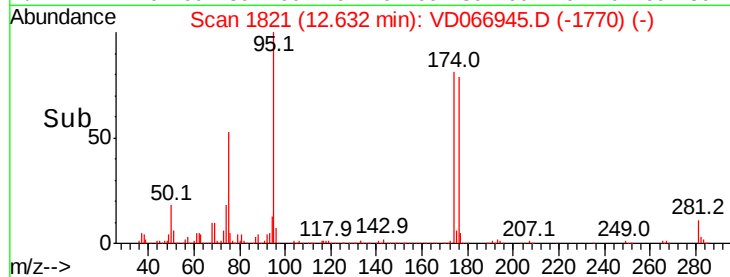
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VD066945.D

Acq: 29 Sep 2020 18:10

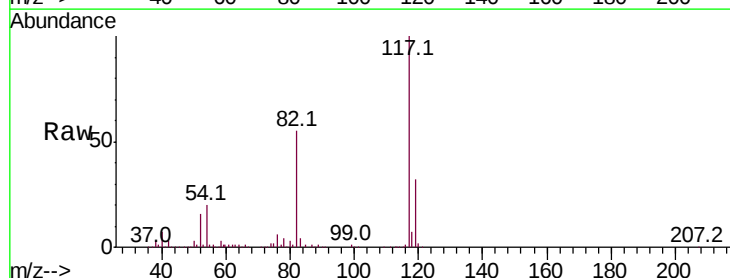
Tgt Ion: 117 Resp: 729941

Ion Ratio Lower Upper

117 100

82 55.0 41.8 62.6

119 32.0 24.6 37.0



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

600000

500000

400000

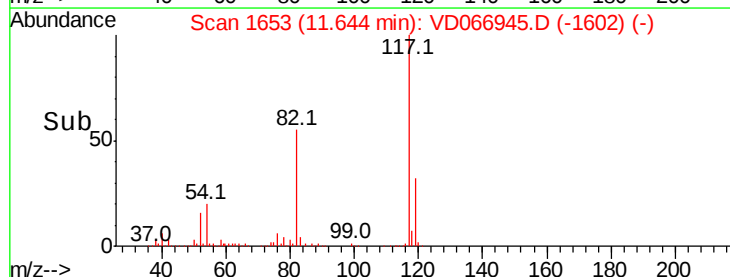
300000

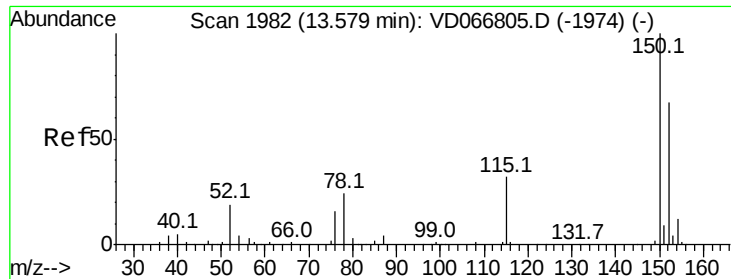
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066945.D

Acq: 29 Sep 2020 18:10

Instrument :

MSVOA_D

ClientSampleId :

B-11(1-2)

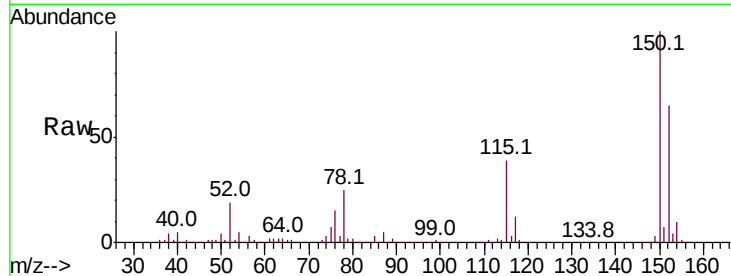
Tot Ion:152 Resp: 354636

Ion Ratio Lower Upper

152 100

115 59.2 30.3 91.0

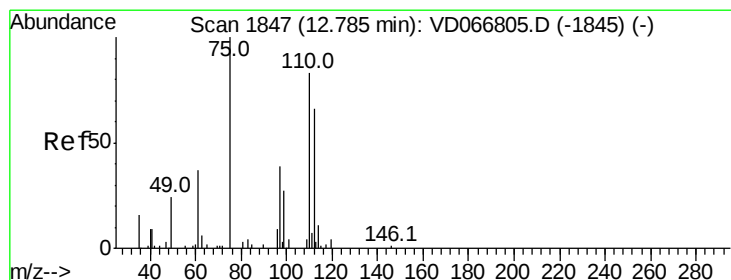
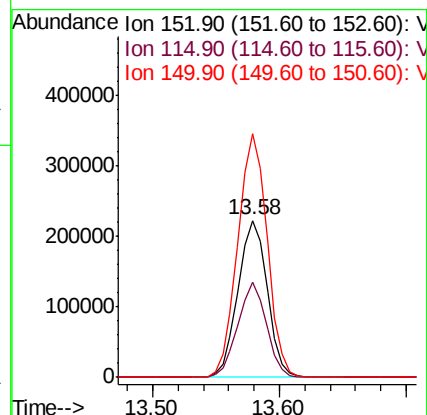
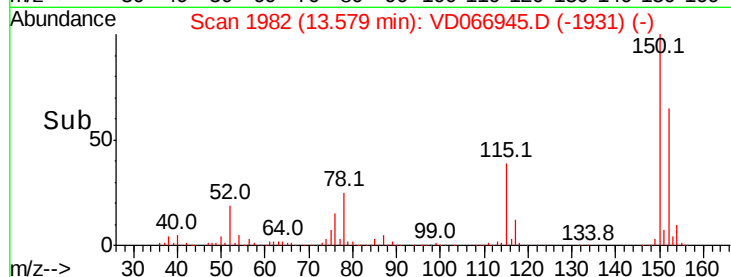
150 155.6 0.0 346.2



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: 55.979 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066945.D

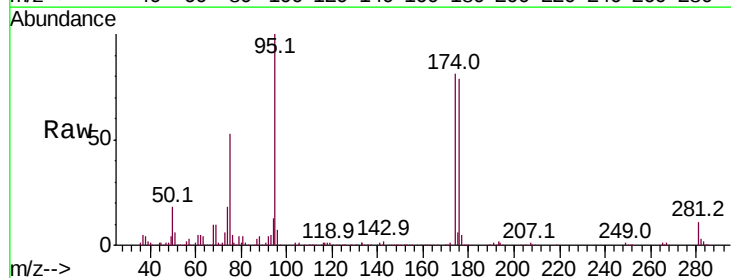
Acq: 29 Sep 2020 18:10

Tgt Ion: 75 Resp: 164518

Ion Ratio Lower Upper

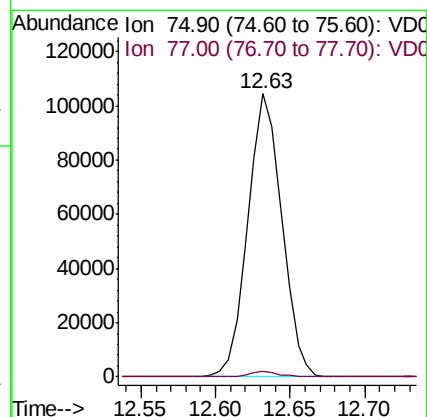
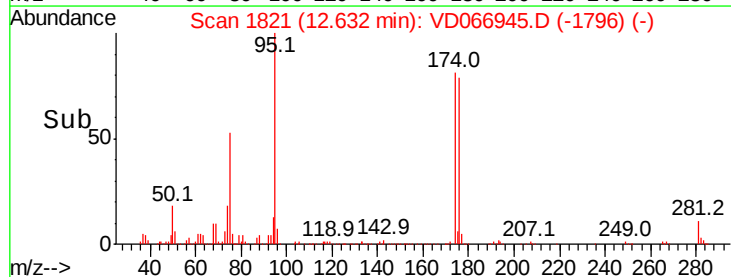
75 100

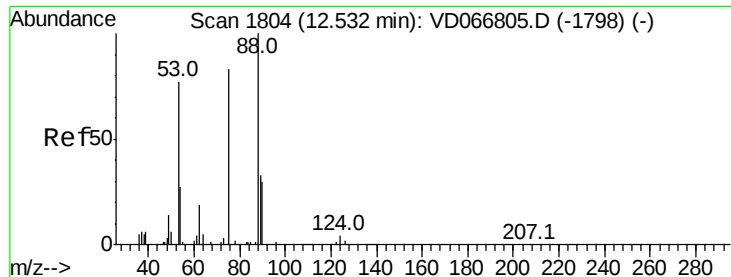
77 1.5 0.0 0.0#



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: 140.054 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066945.D

Acq: 29 Sep 2020 18:10

Instrument :

MSVOA_D

ClientSampleId :

B-11(1-2)

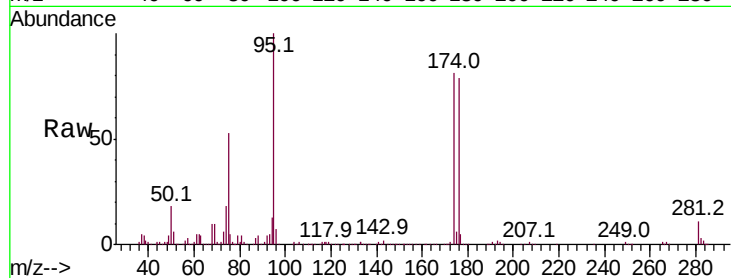
Tot Ion: 75 Resp: 164518

Ion Ratio Lower Upper

75 100

53 0.1 78.5 117.7#

89 0.2 38.1 57.1#



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

