

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120420\
 Data File : VD067881.D
 Acq On : 04 Dec 2020 12:57
 Operator : VA/SY
 Sample : L4950-01
 Misc : 5.71G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PL-02-120420

Quant Time: Dec 04 23:49:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120120S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 02 08:05:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	39503	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	54539	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	49075	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	27486	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	25423	59.95	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	119.90%
35) Dibromofluoromethane	7.92	113	17321	47.46	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	94.92%
50) Toluene-d8	10.34	98	61170	46.56	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	93.12%
62) 4-Bromofluorobenzene	12.64	95	21410	47.14	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	94.28%

Target Compounds

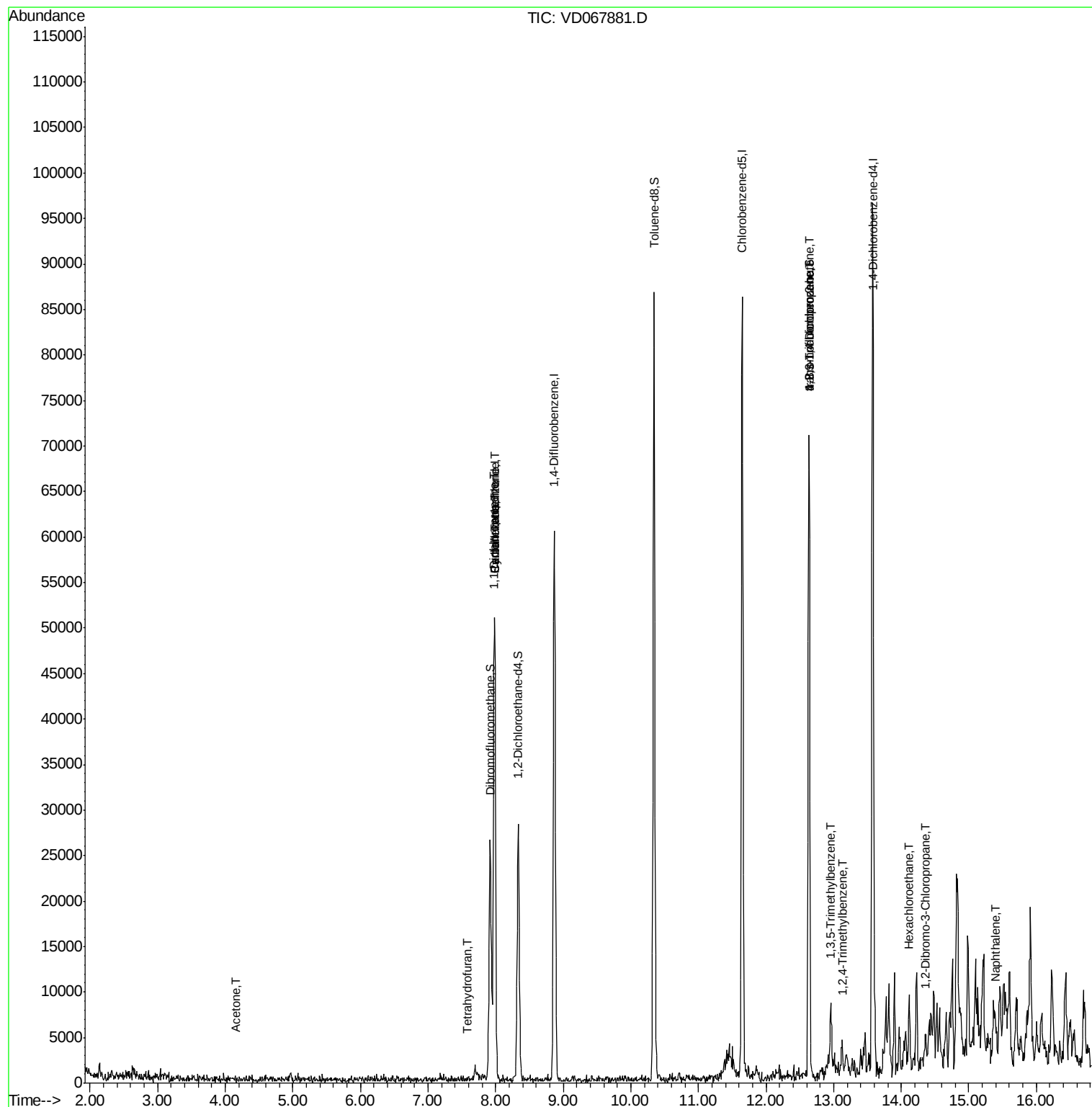
					Qvalue	
16) Acetone	4.16	43	54	1.030	ug/l #	47
18) Methyl Acetate	4.77	43	60	Below Cal	#	41
20) Methylene Chloride	4.97	84	340	Below Cal	#	46
29) Tetrahydrofuran	7.58	42	90	2.868	ug/l #	19
31) Cyclohexane	7.99	56	892	1.996	ug/l #	53
36) 1,1-Dichloropropene	7.97	75	2594	5.494	ug/l #	47
38) Carbon Tetrachloride	7.98	117	4452	6.232	ug/l #	10
76) 1,2,3-Trichloropropane	12.64	75	11447	57.189	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.96	105	2858	1.746	ug/l	85
81) trans-1,4-Dichloro-2-buten	12.64	75	11447	136.801	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.12	105	2929	1.800	ug/l	78
90) Hexachloroethane	14.12	117	643	1.912	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	14.35	75	55	1.056	ug/l #	1
95) Naphthalene	15.40	128	2267	2.533	ug/l #	86

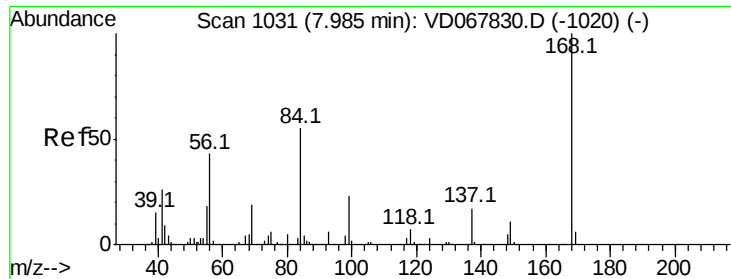
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Dec 02 08:05:58 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067881.D

Acq: 04 Dec 2020 12:57

Instrument :

MSVOA_D

ClientSampleId :

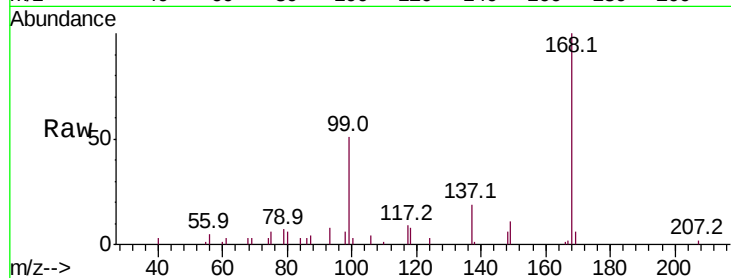
PL-02-120420

Tot Ion:168 Resp: 39503

Ion Ratio Lower Upper

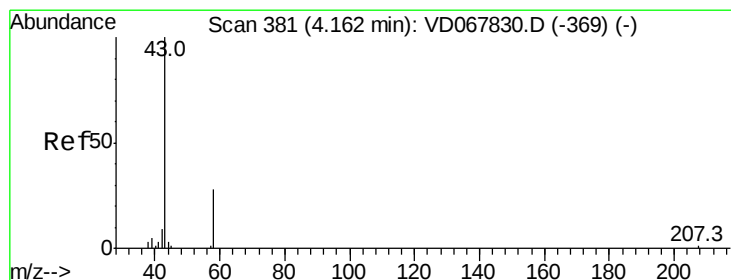
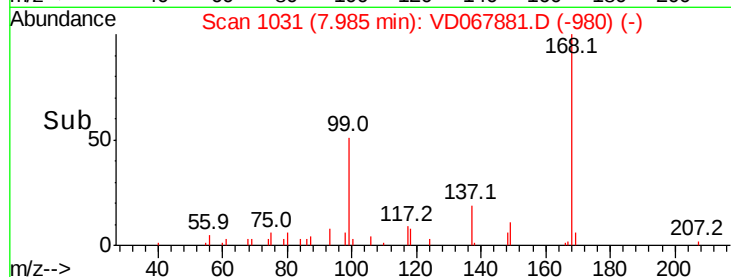
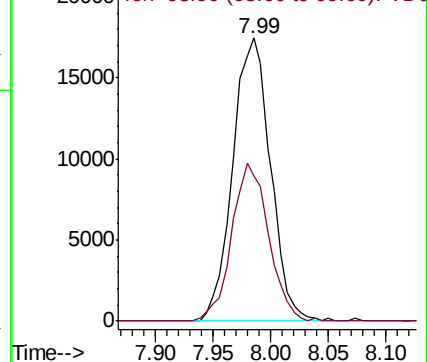
168 100

99 51.3 47.1 70.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 1.030 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD067881.D

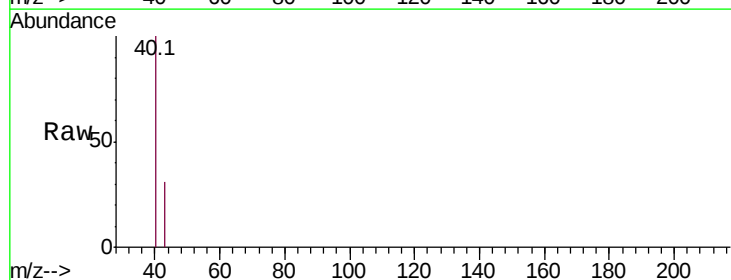
Acq: 04 Dec 2020 12:57

Tgt Ion: 43 Resp: 54

Ion Ratio Lower Upper

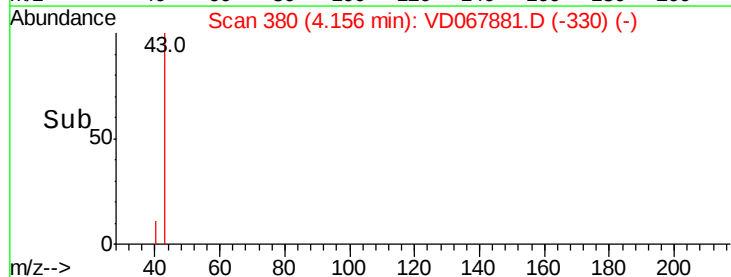
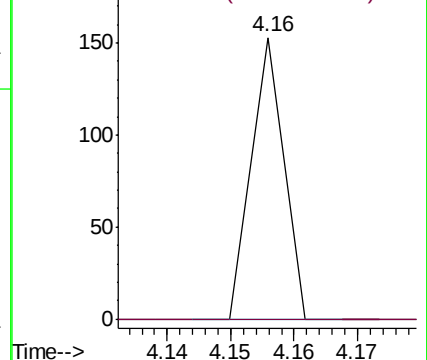
43 100

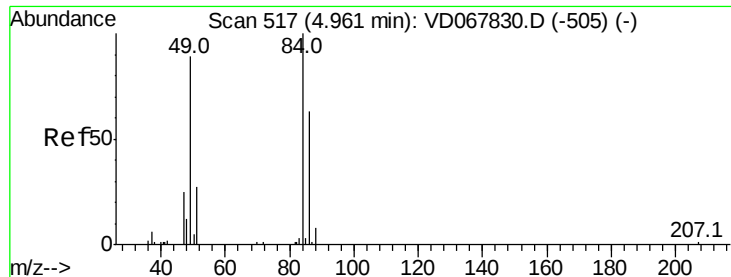
58 0.0 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD067881.D

Acq: 04 Dec 2020 12:57

Instrument :

MSVOA_D

ClientSampleId :

PL-02-120420

Tot Ion: 84 Resp: 340

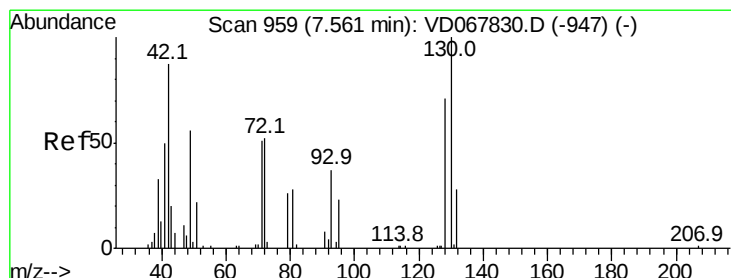
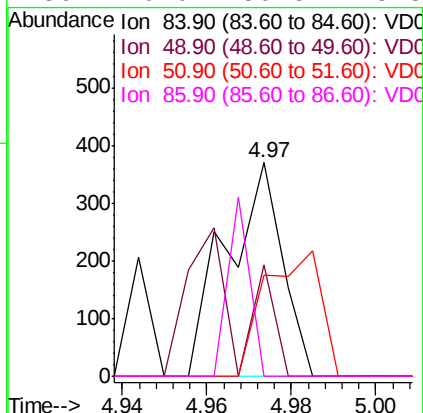
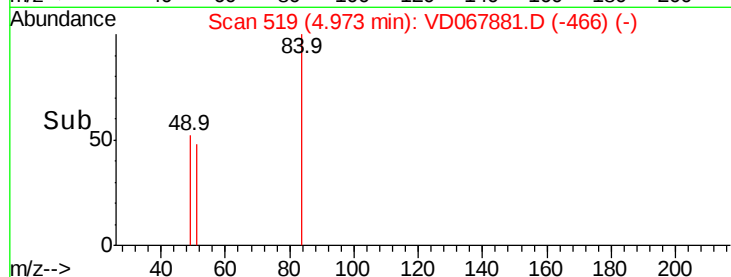
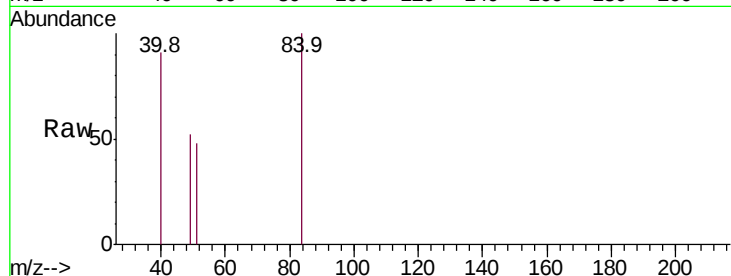
Ion Ratio Lower Upper

84 100

49 51.9 71.4 107.0#

51 47.6 21.8 32.8#

86 0.0 50.6 75.8#



#29

Tetrahydrofuran

Concen: 2.868 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.02 min

Lab File: VD067881.D

Acq: 04 Dec 2020 12:57

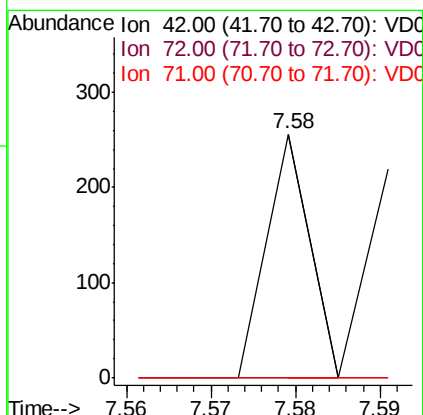
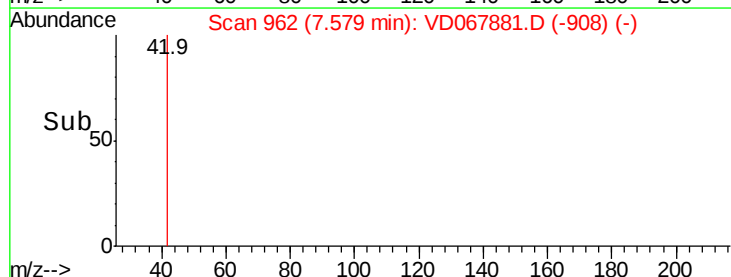
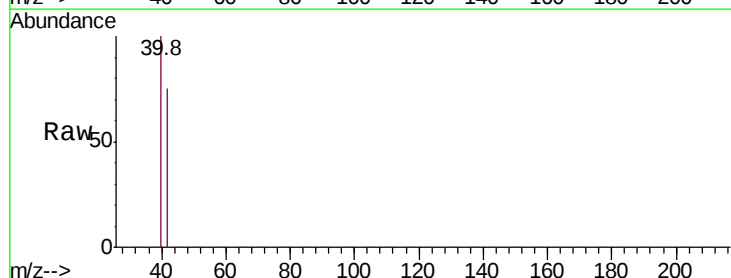
Tgt Ion: 42 Resp: 90

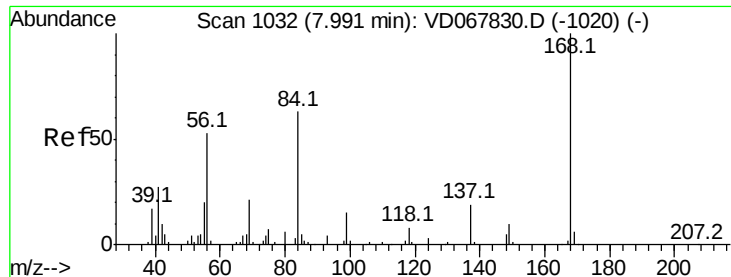
Ion Ratio Lower Upper

42 100

72 0.0 51.9 77.9#

71 0.0 48.2 72.4#

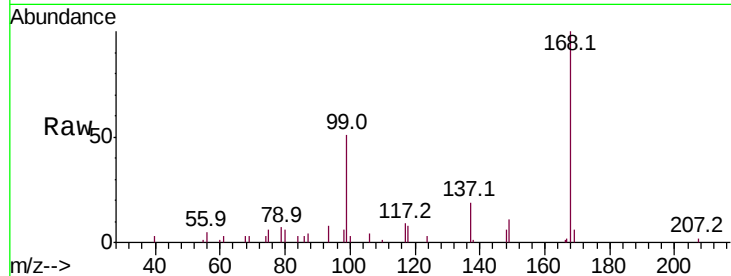




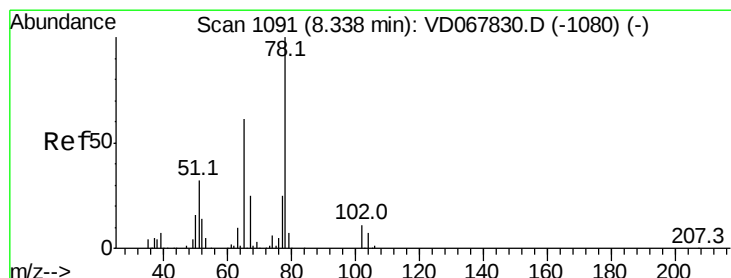
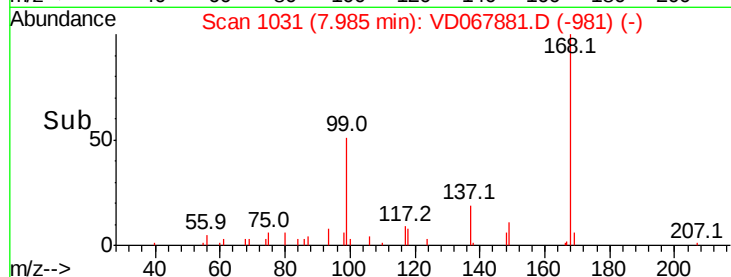
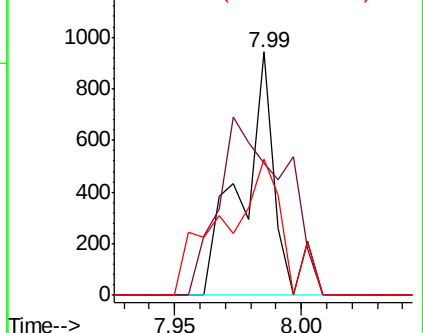
#31
Cyclohexane
Concen: 1.996 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VD067881.D
Acq: 04 Dec 2020 12:57

Instrument :
MSVOA_D
ClientSampleId :
PL-02-120420

Tot Ion: 56 Resp: 892
Ion Ratio Lower Upper
56 100
69 54.1 32.1 48.1#
84 56.1 93.2 139.8#

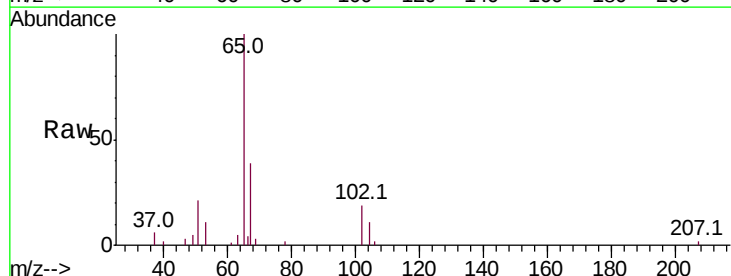


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

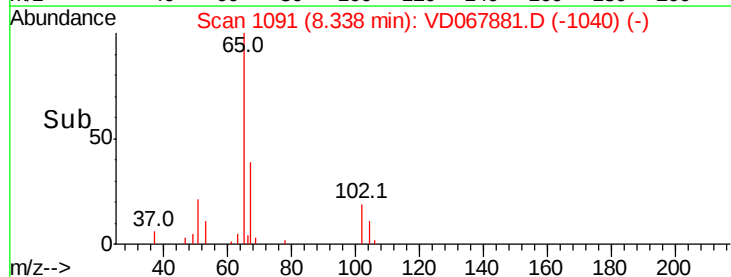
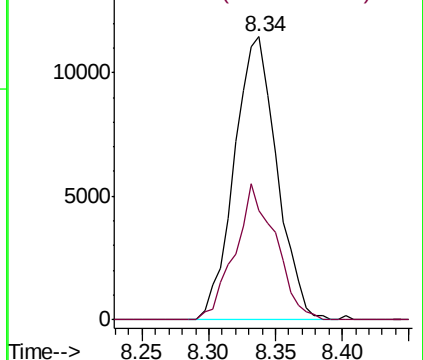


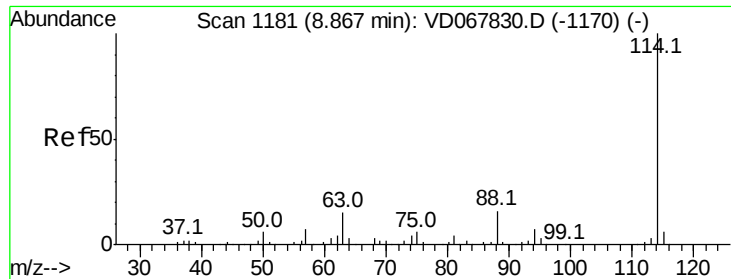
#33
1,2-Dichloroethane-d4
Concen: 59.948 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD067881.D
Acq: 04 Dec 2020 12:57

Tgt Ion: 65 Resp: 25423
Ion Ratio Lower Upper
65 100
67 45.9 0.0 92.0



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

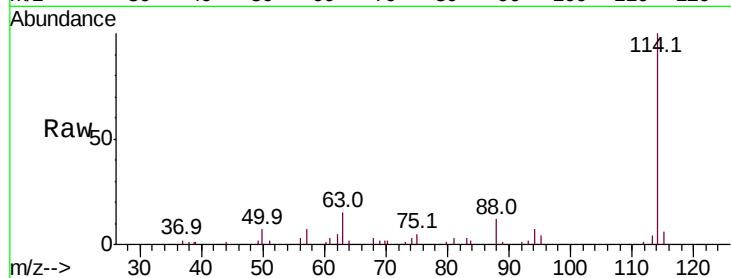




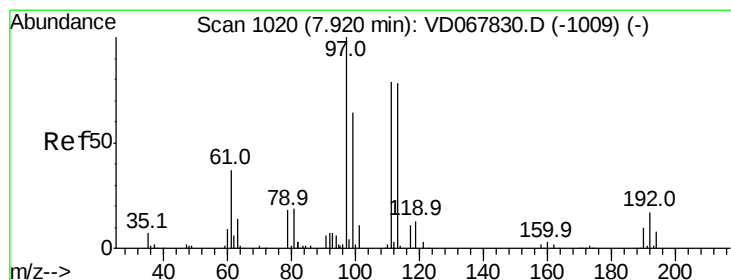
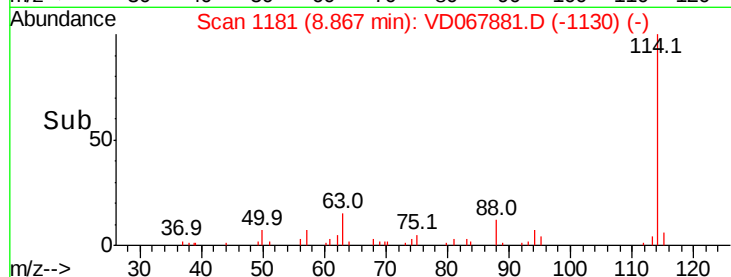
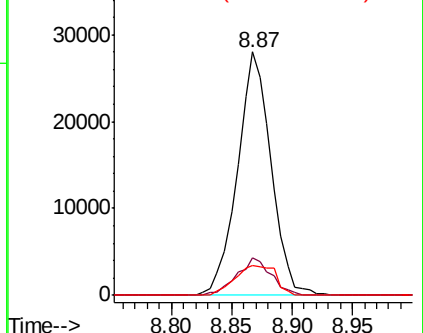
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD067881.D
 Acq: 04 Dec 2020 12:57

Instrument :
 MSVOA_D
 ClientSampleId :
 PL-02-120420

Tot Ion:114 Resp: 54539
 Ion Ratio Lower Upper
 114 100
 63 15.2 0.0 30.8
 88 12.3 0.0 31.8

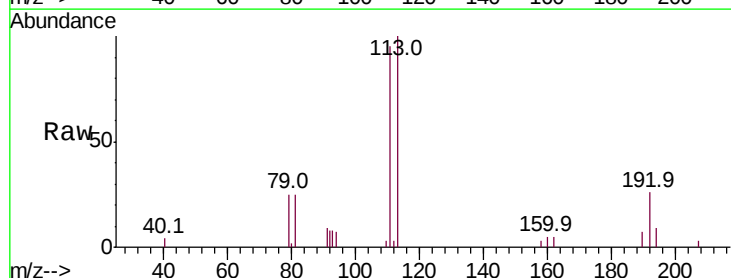


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

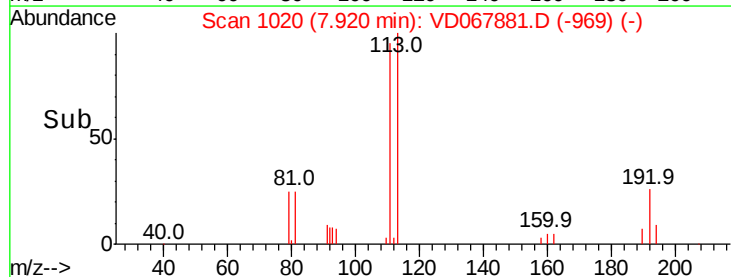
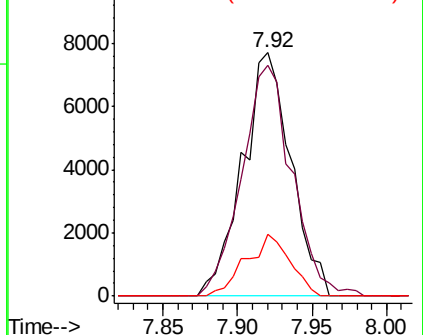


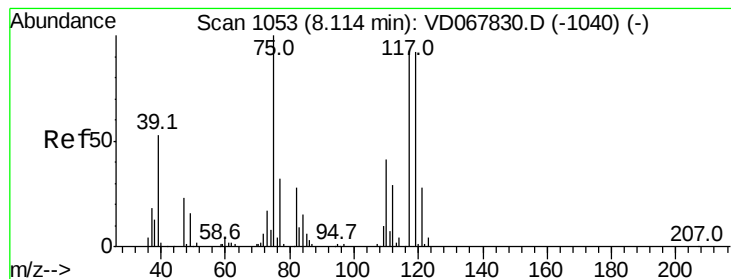
#35
 Dibromofluoromethane
 Concen: 47.462 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD067881.D
 Acq: 04 Dec 2020 12:57

Tgt Ion:113 Resp: 17321
 Ion Ratio Lower Upper
 113 100
 111 98.3 81.2 121.8
 192 23.1 16.8 25.2



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: 5.494 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD067881.D

Acq: 04 Dec 2020 12:57

Instrument :

MSVOA_D

ClientSampleId :

PL-02-120420

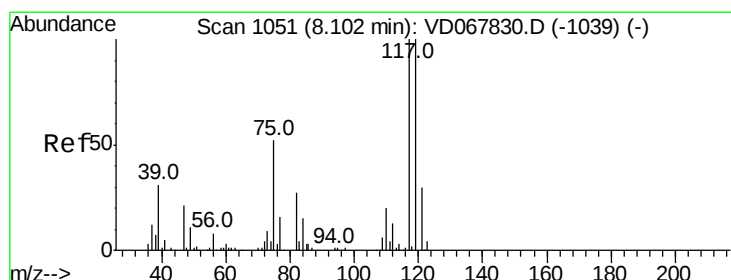
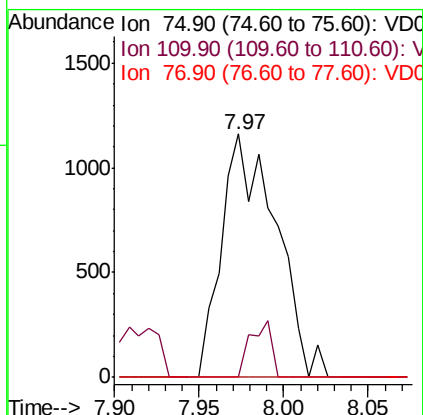
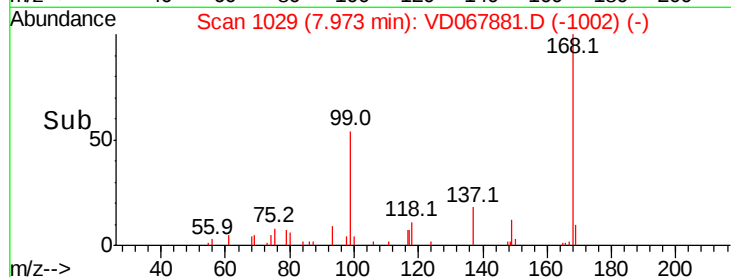
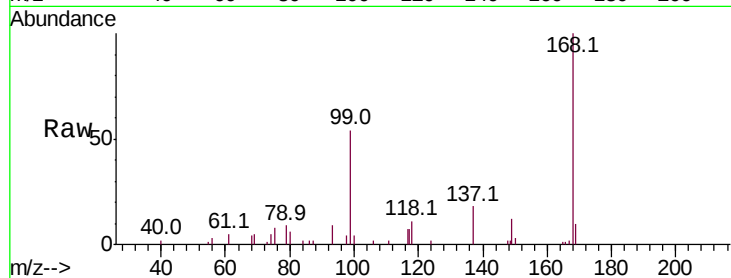
Tot Ion: 75 Resp: 2594

Ion Ratio Lower Upper

75 100

110 9.2 20.3 61.0#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.232 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067881.D

Acq: 04 Dec 2020 12:57

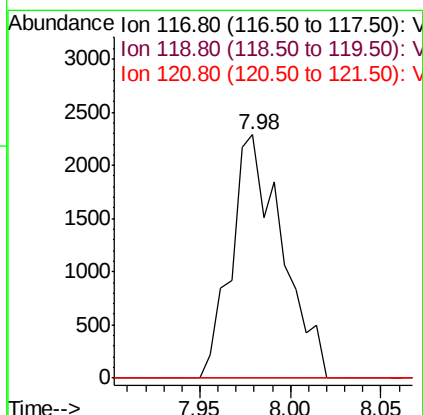
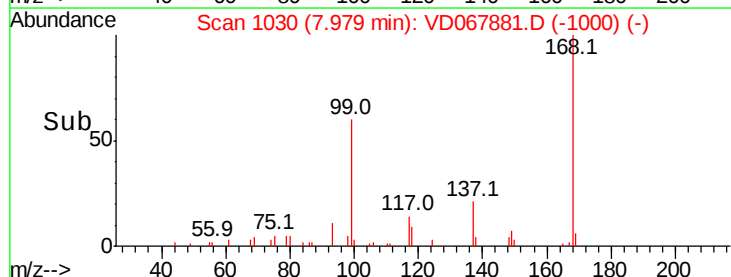
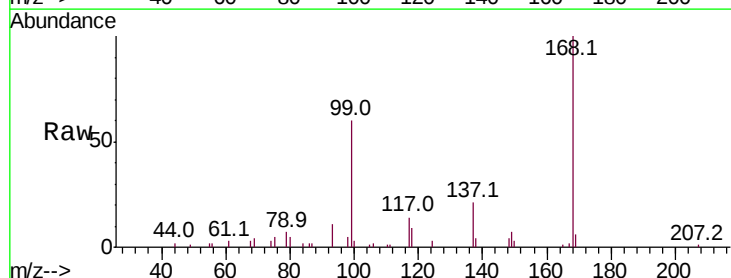
Tgt Ion: 117 Resp: 4452

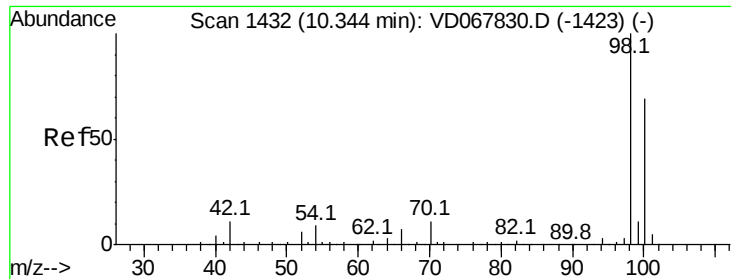
Ion Ratio Lower Upper

117 100

119 0.0 79.7 119.5#

121 0.0 23.8 35.6#





#50

Toluene-d8

Concen: 46.562 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067881.D

Acq: 04 Dec 2020 12:57

Instrument :

MSVOA_D

ClientSampleId :

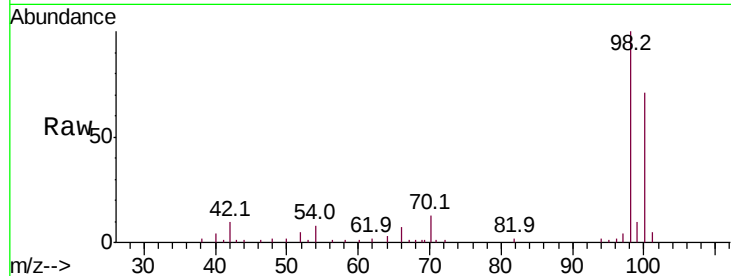
PL-02-120420

Tot Ion: 98 Resp: 61170

Ion Ratio Lower Upper

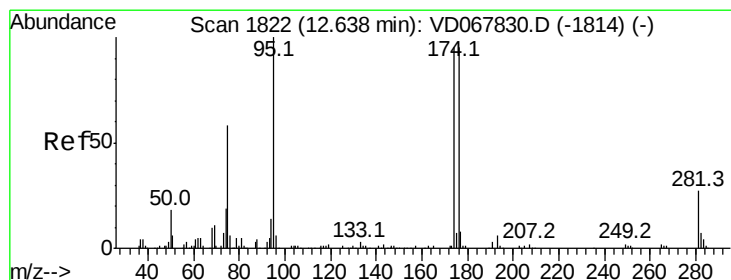
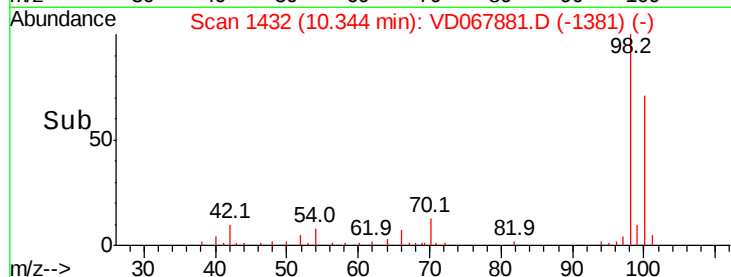
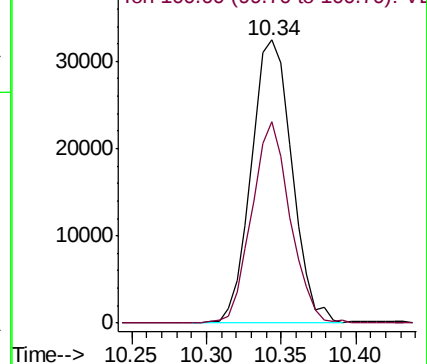
98 100

100 67.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 47.138 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067881.D

Acq: 04 Dec 2020 12:57

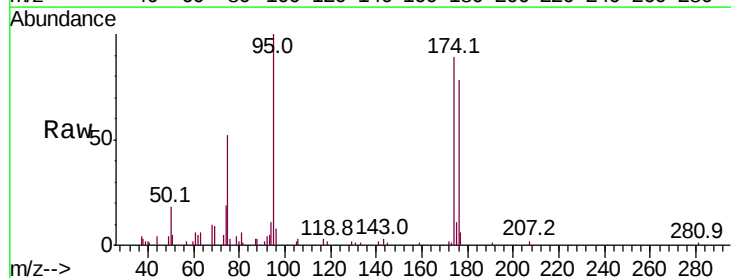
Tgt Ion: 95 Resp: 21410

Ion Ratio Lower Upper

95 100

174 101.3 0.0 186.0

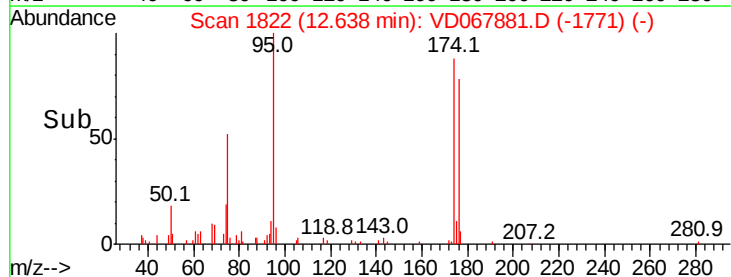
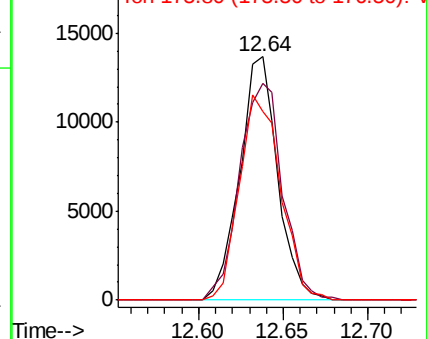
176 91.6 0.0 184.2

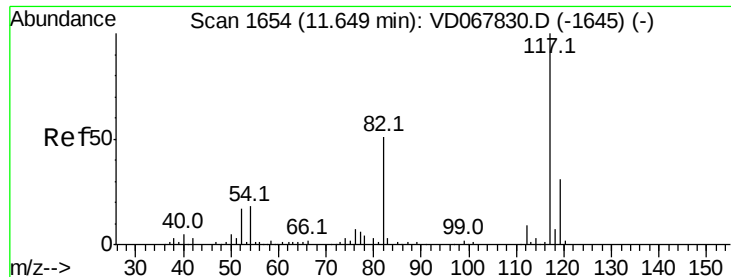


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

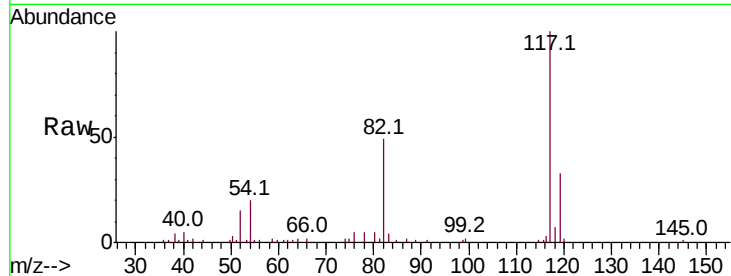




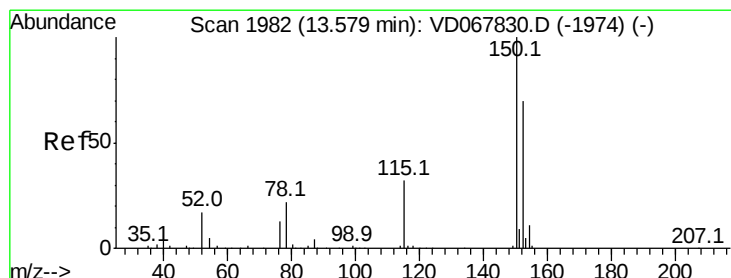
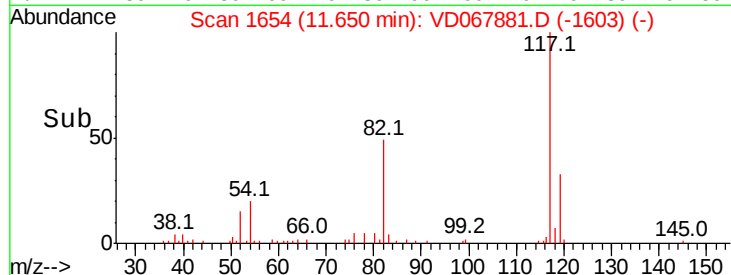
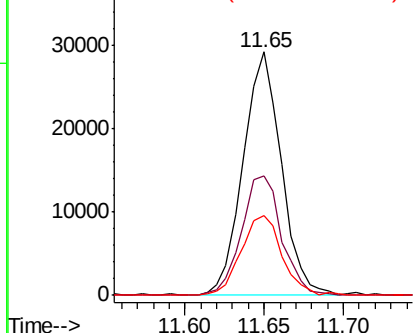
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067881.D
Acq: 04 Dec 2020 12:57

Instrument :
MSVOA_D
ClientSampleId :
PL-02-120420

Tot Ion:117 Resp: 49075
Ion Ratio Lower Upper
117 100
82 48.8 40.6 60.8
119 32.6 25.1 37.7

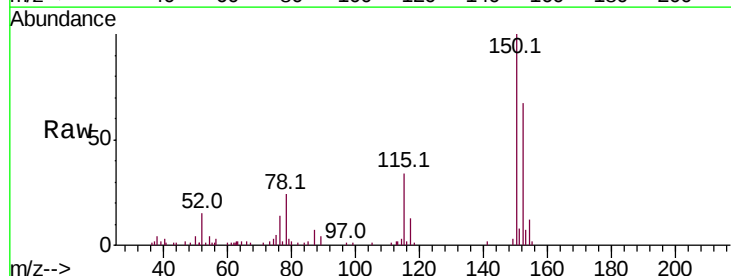


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

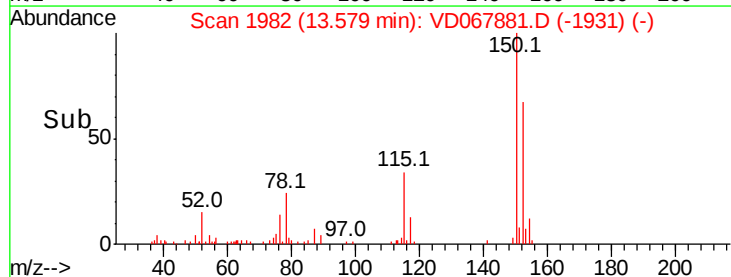
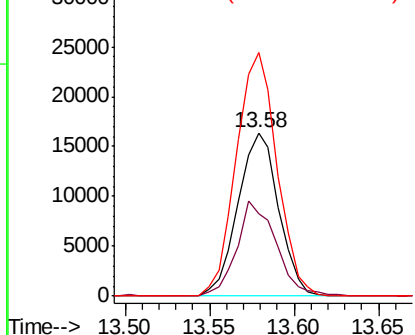


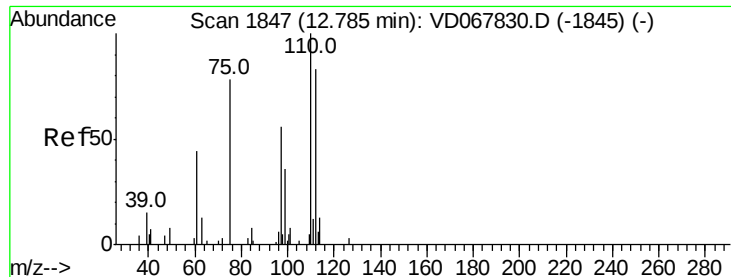
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD067881.D
Acq: 04 Dec 2020 12:57

Tgt Ion:152 Resp: 27486
Ion Ratio Lower Upper
152 100
115 56.3 29.1 87.4
150 149.1 0.0 339.0



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: 57.189 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067881.D

Acq: 04 Dec 2020 12:57

Instrument :

MSVOA_D

ClientSampleId :

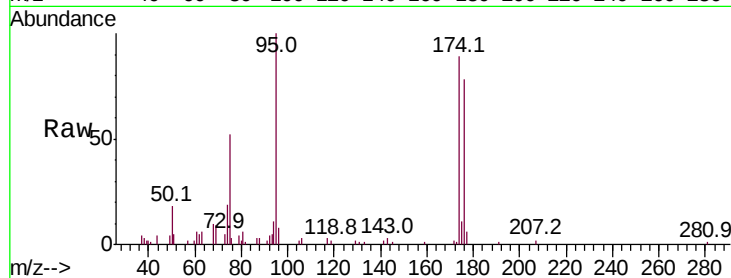
PL-02-120420

Tot Ion: 75 Resp: 11447

Ion Ratio Lower Upper

75 100

77 0.5 175.9 527.7#



Abundance Ion 74.90 (74.60 to 75.60): VD067830.D (-1845) (-)

Ion 77.00 (76.70 to 77.70): VD067830.D (-1845) (-)

12.64

8000

6000

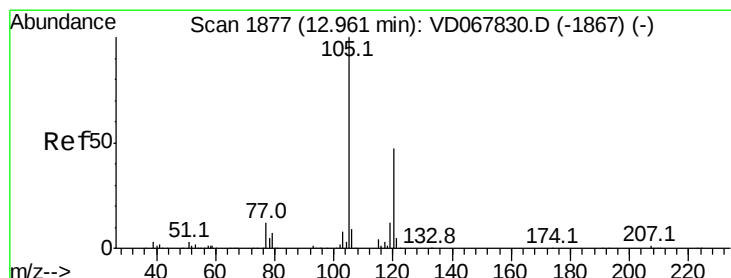
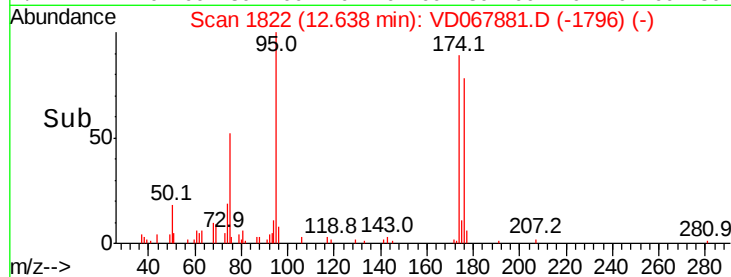
4000

2000

0

Time-->

12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 1.746 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VD067881.D

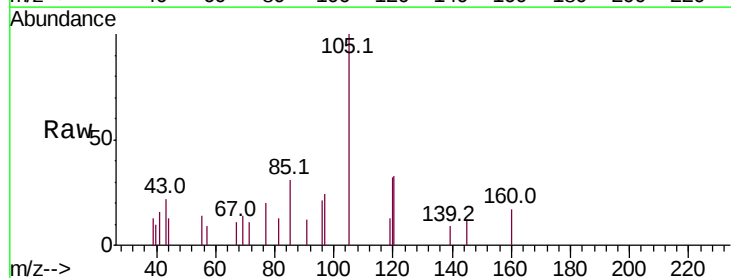
Acq: 04 Dec 2020 12:57

Tgt Ion: 105 Resp: 2858

Ion Ratio Lower Upper

105 100

120 58.8 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): VD067830.D (-1867) (-)

Ion 120.00 (119.70 to 120.70): VD067830.D (-1867) (-)

12.96

2000

1500

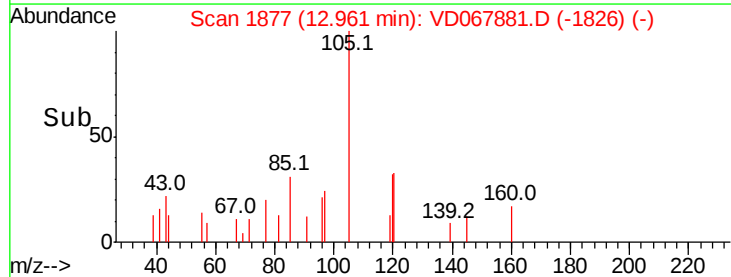
1000

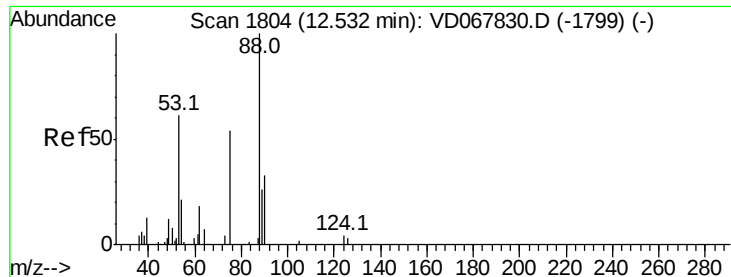
500

0

Time-->

12.95 13.00





#81

trans-1,4-Dichloro-2-butene

Concen: 136.801 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067881.D

Acq: 04 Dec 2020 12:57

Instrument :

MSVOA_D

ClientSampleId :

PL-02-120420

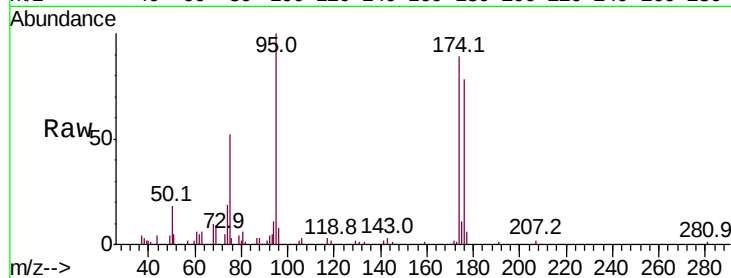
Tot Ion: 75 Resp: 11447

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

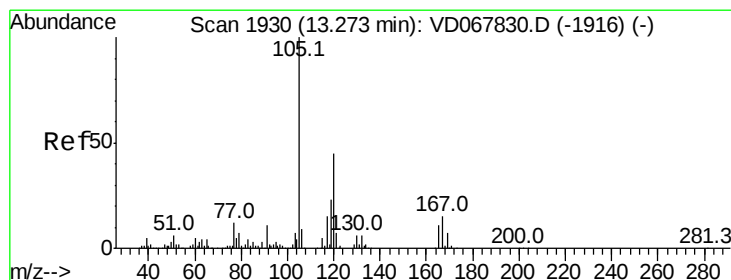
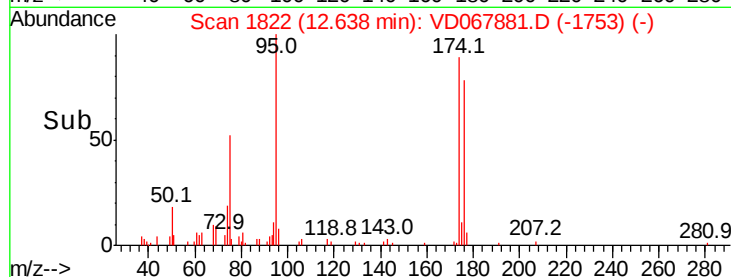
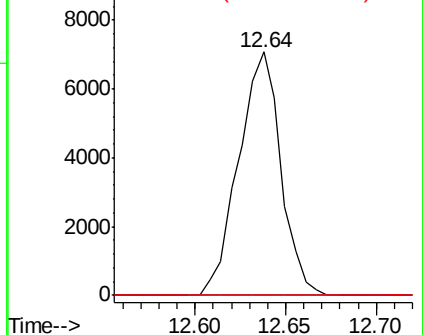
89 0.0 41.0 61.6#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.800 ug/l

RT: 13.12 min Scan# 1904

Delta R.T. -0.15 min

Lab File: VD067881.D

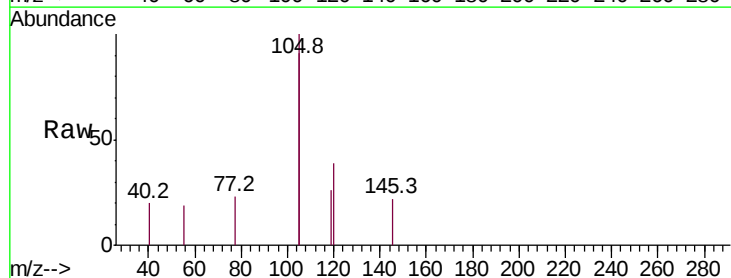
Acq: 04 Dec 2020 12:57

Tgt Ion: 105 Resp: 2929

Ion Ratio Lower Upper

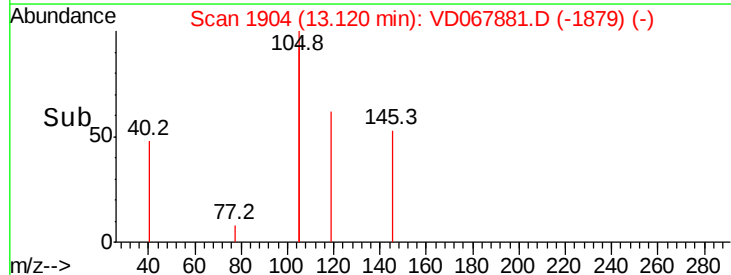
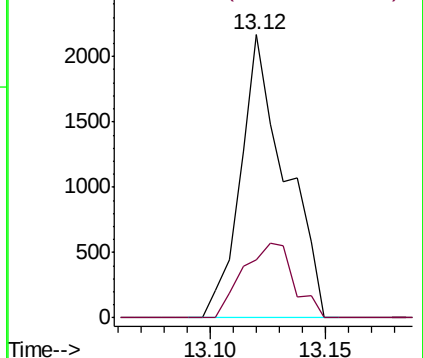
105 100

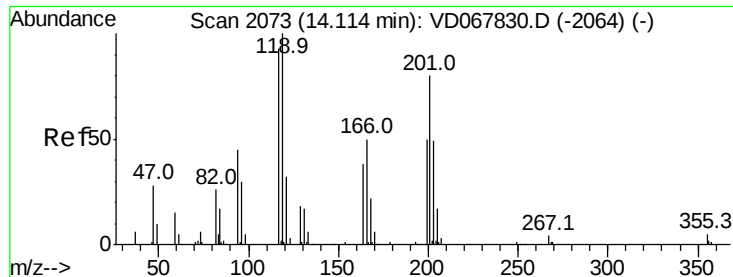
120 29.9 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 1.912 ug/l

RT: 14.12 min Scan# 2074

Delta R.T. 0.01 min

Lab File: VD067881.D

Acq: 04 Dec 2020 12:57

Instrument :

MSVOA_D

ClientSampleId :

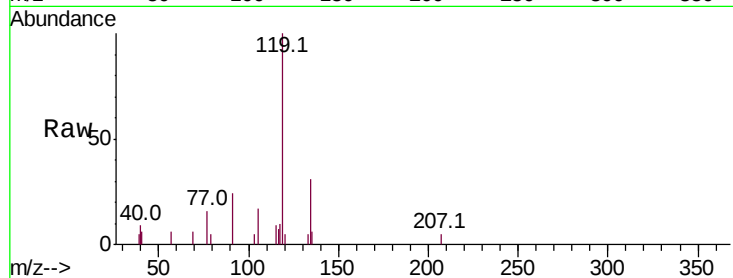
PL-02-120420

Tot Ion:117 Resp: 643

Ion Ratio Lower Upper

117 100

201 0.0 43.9 131.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

14.12

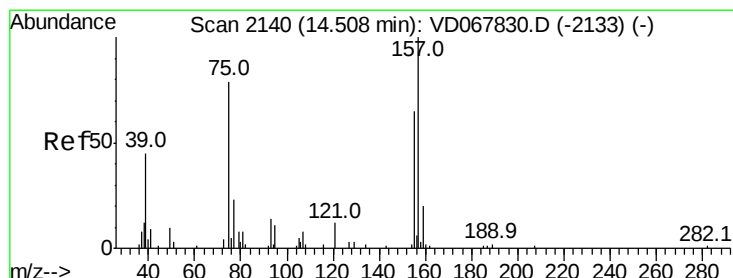
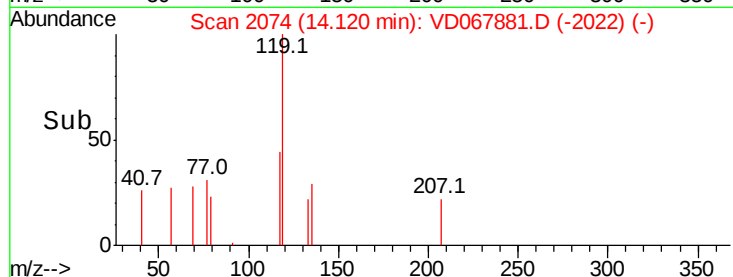
600

400

200

0

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.056 ug/l

RT: 14.35 min Scan# 2113

Delta R.T. -0.16 min

Lab File: VD067881.D

Acq: 04 Dec 2020 12:57

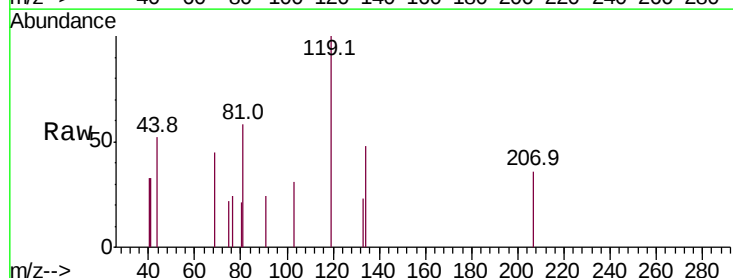
Tgt Ion: 75 Resp: 55

Ion Ratio Lower Upper

75 100

155 0.0 44.1 132.4#

157 0.0 62.4 187.2#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

14.35

200

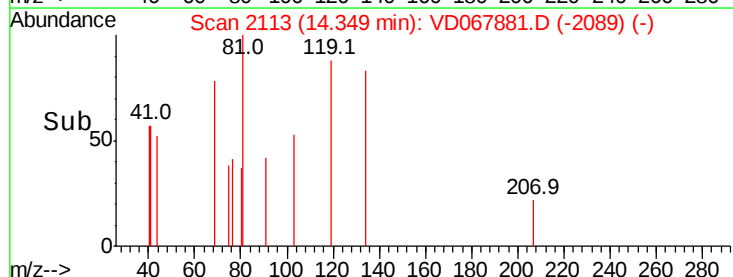
150

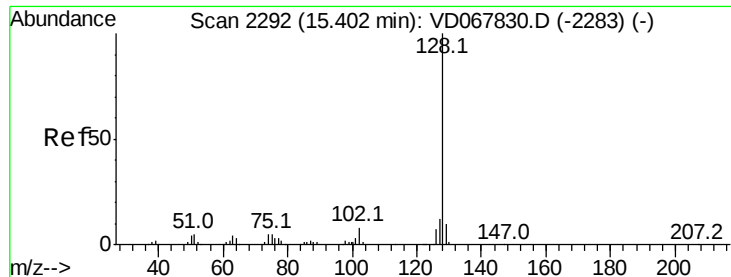
100

50

0

Time-->





#95

Naphthalene

Concen: 2.533 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VD067881.D

Acq: 04 Dec 2020 12:57

Instrument :

MSVOA_D

ClientSampleId :

PL-02-120420

Tot Ion:128 Resp: 2267

Ion Ratio Lower Upper

128 100

127 5.6 10.6 15.8#

129 14.4 9.0 13.6#

