

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100520\
 Data File : VD067091.D
 Acq On : 05 Oct 2020 18:42
 Operator : VA/SY
 Sample : L4242-15
 Misc : 8.56G/5.00ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B17-100120-18-19

Quant Time: Oct 06 07:19:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	473481	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	785905	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	710012	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	337763	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	220395	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
35) Dibromofluoromethane	7.91	113	250765	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
50) Toluene-d8	10.34	98	919260	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
62) 4-Bromofluorobenzene	12.64	95	321903	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	

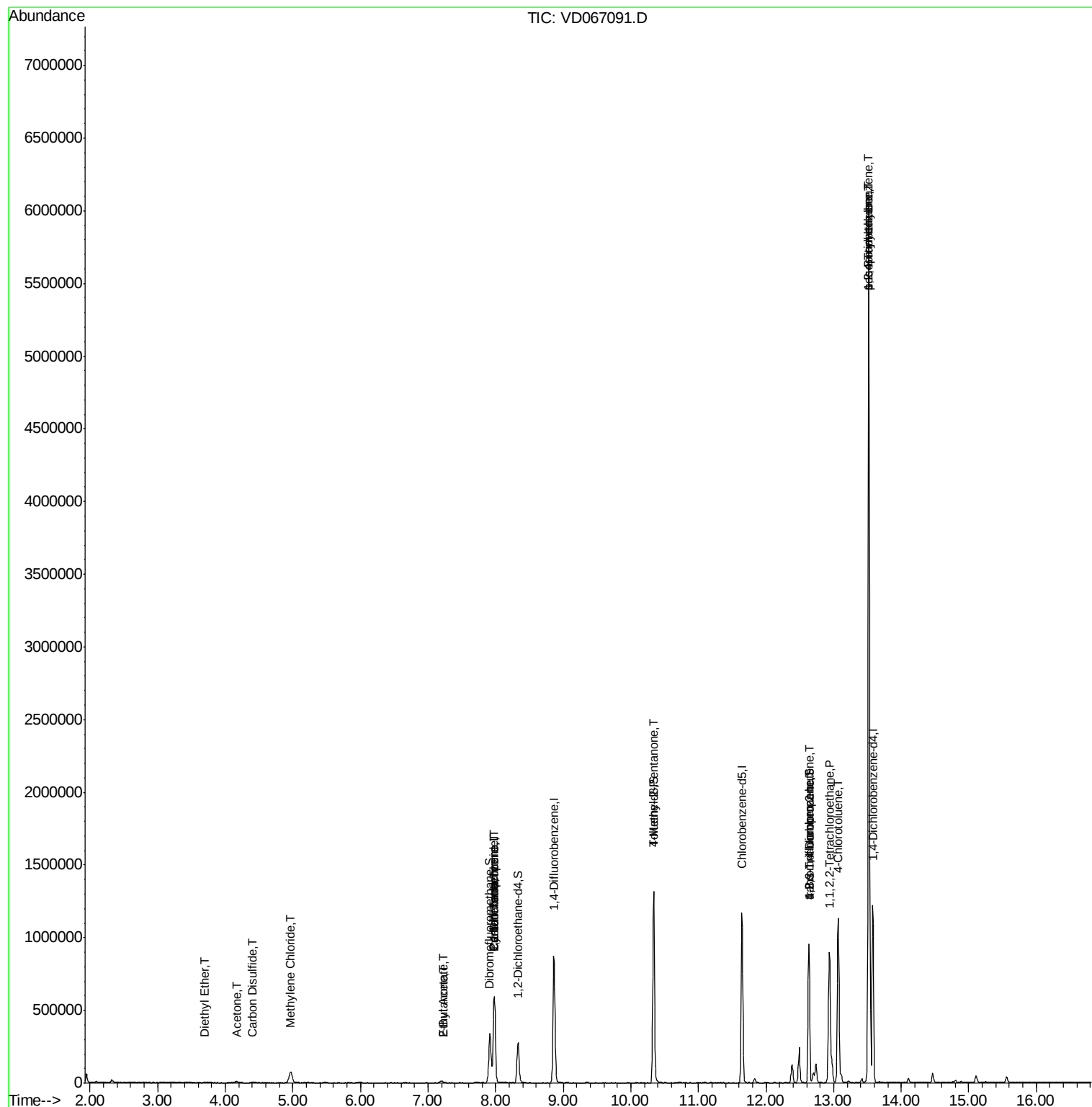
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	127	Below Cal	#	40
5) Bromomethane	2.77	94	121	Below Cal	#	3
8) Diethyl Ether	3.69	74	3887	1.866	ug/l	88
11) Tert butyl alcohol	5.20	59	2087	Below Cal	#	72
16) Acetone	4.17	43	13472	19.352	ug/l	# 46
17) Carbon Disulfide	4.41	76	14157	1.034	ug/l	97
20) Methylene Chloride	4.97	84	64421	6.747	ug/l	91
25) 2-Butanone	7.23	43	3120	3.161	ug/l	# 85
26) 2,2-Dichloropropane	7.21	77	543	Below Cal	#	53
31) Cyclohexane	7.97	56	9705	1.417	ug/l	# 1
36) 1,1-Dichloropropene	7.98	75	34985	4.776	ug/l	# 48
37) Ethyl Acetate	7.23	43	3120	1.229	ug/l	# 66
38) Carbon Tetrachloride	7.98	117	46915	5.919	ug/l	# 15
51) 4-Methyl-2-Pentanone	10.34	43	4033	1.732	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.94	83	36794	9.522	ug/l	# 28
76) 1,2,3-Trichloropropane	12.64	75	155933	53.002	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.64	75	155933	132.140	ug/l	# 12
82) 4-Chlorotoluene	13.07	91	20968	1.271	ug/l	# 40
84) 1,2,4-Trimethylbenzene	13.52	105	132688	6.862	ug/l	# 1
85) sec-Butylbenzene	13.52	105	133074	5.791	ug/l	# 1
86) p-Isopropyltoluene	13.52	119	3544903	166.396	ug/l	99

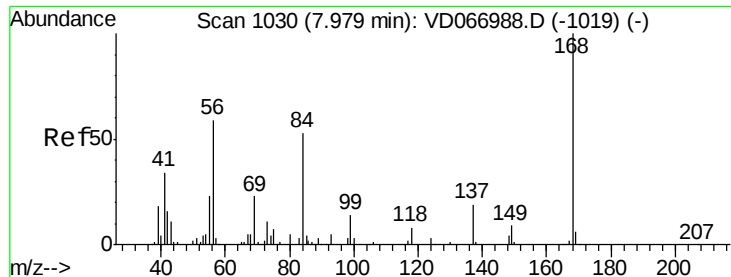
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 01 15:19:17 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067091.D

Acq: 05 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleId :

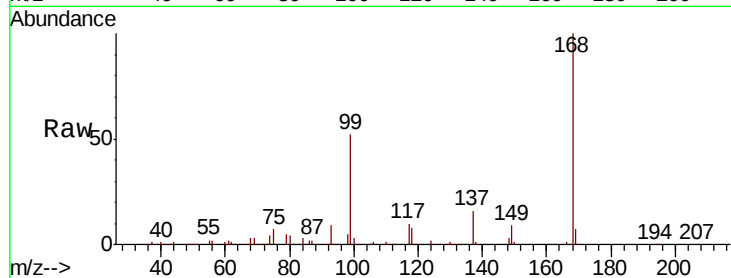
PAV-B17-100120-18-19

Tot Ion:168 Resp: 473481

Ion Ratio Lower Upper

168 100

99 51.9 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

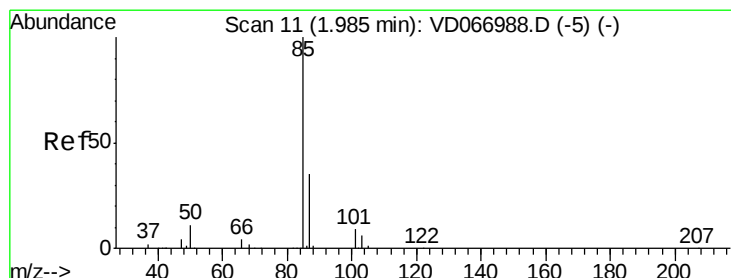
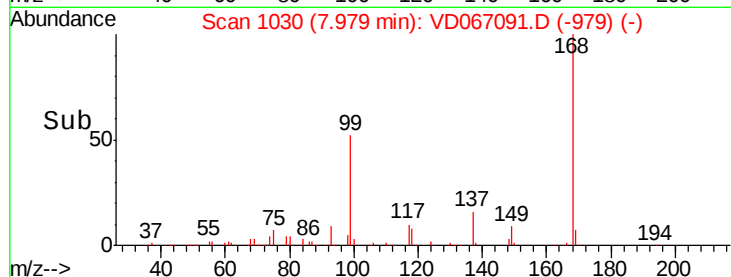
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067091.D

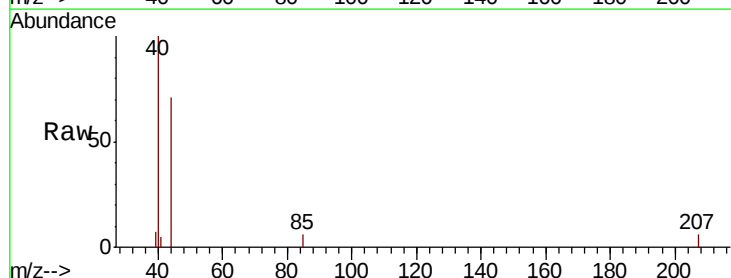
Acq: 05 Oct 2020 18:42

Tgt Ion: 85 Resp: 127

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

200

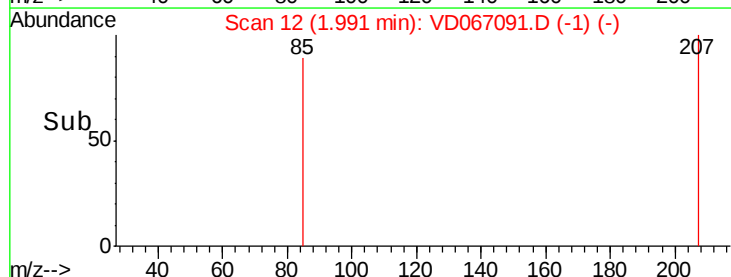
150

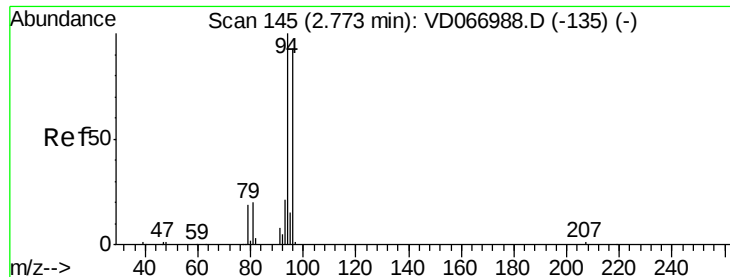
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD067091.D

Acq: 05 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleId :

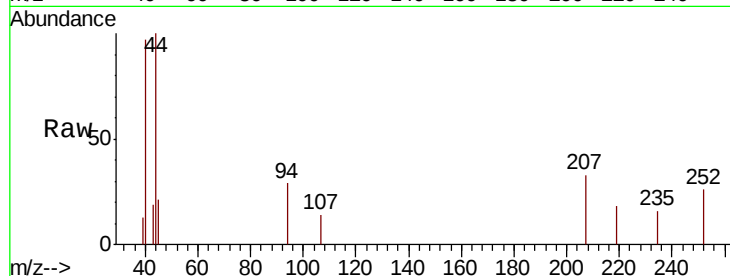
PAV-B17-100120-18-19

Tot Ion: 94 Resp: 121

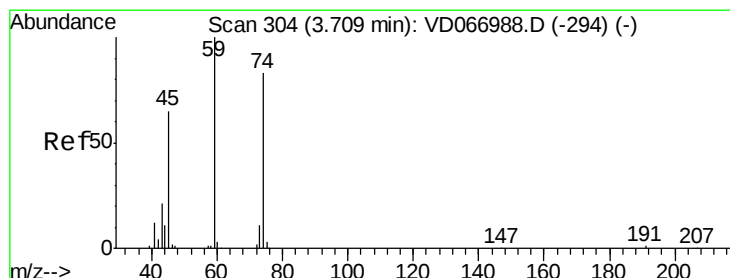
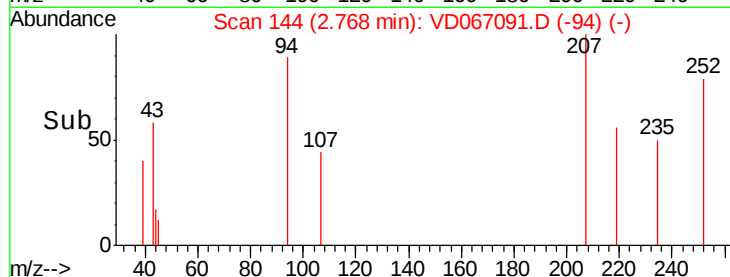
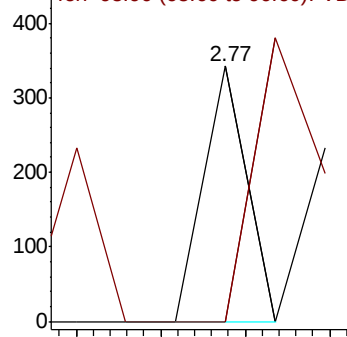
Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC



#8

Diethyl Ether

Concen: 1.866 ug/l

RT: 3.69 min Scan# 301

Delta R.T. -0.02 min

Lab File: VD067091.D

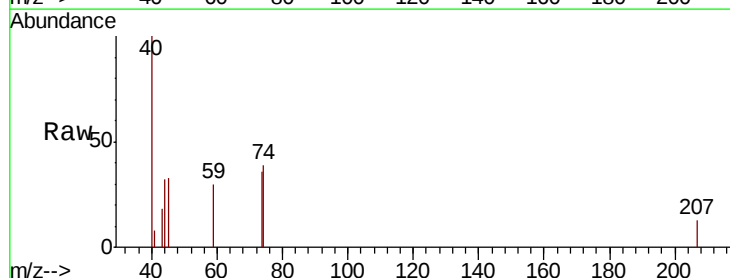
Acq: 05 Oct 2020 18:42

Tgt Ion: 74 Resp: 3887

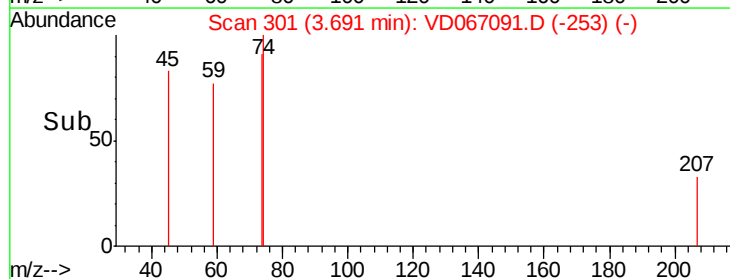
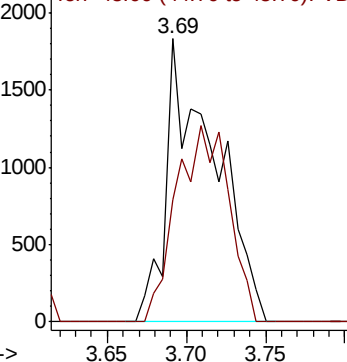
Ion Ratio Lower Upper

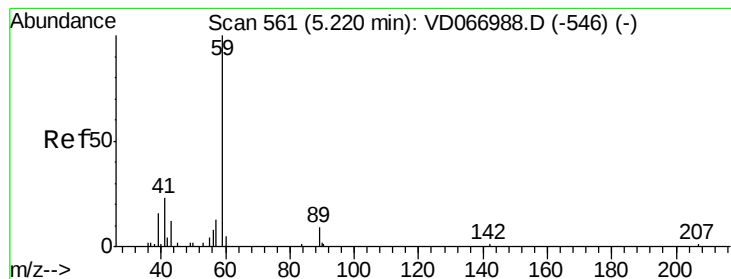
74 100

45 75.3 43.1 129.3



Abundance Ion 74.00 (73.70 to 74.70): VDC



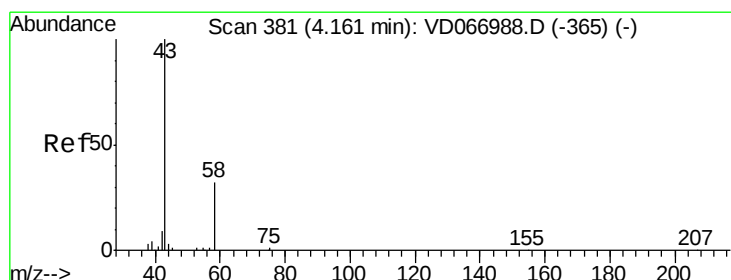
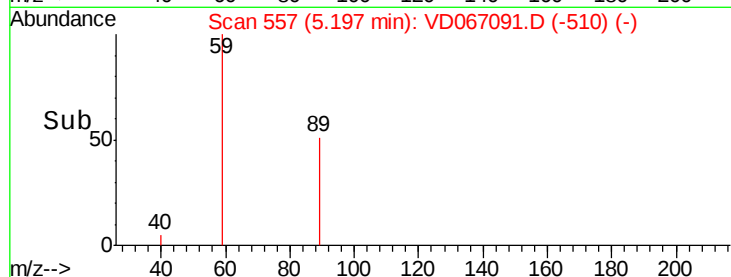
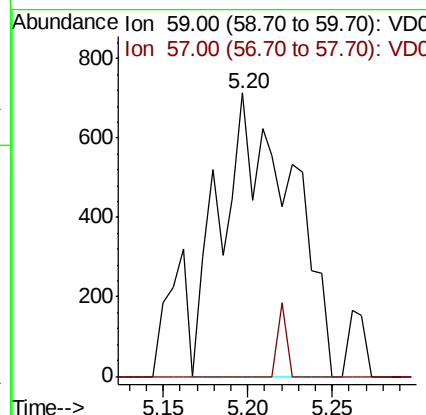
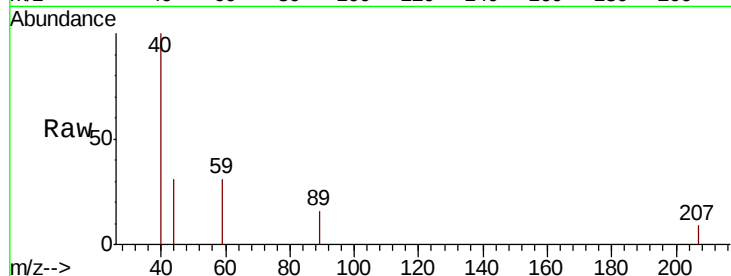


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.20 min Scan# 557
 Delta R.T. -0.02 min
 Lab File: VD067091.D
 Acq: 05 Oct 2020 18:42

Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B17-100120-18-19

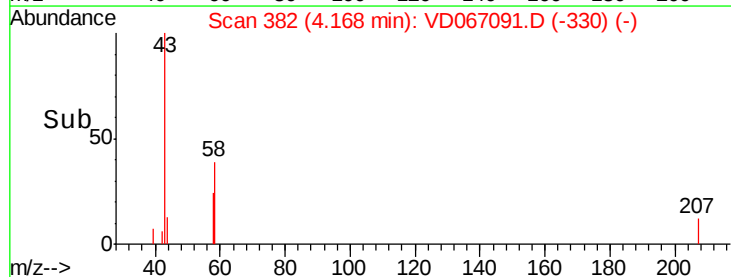
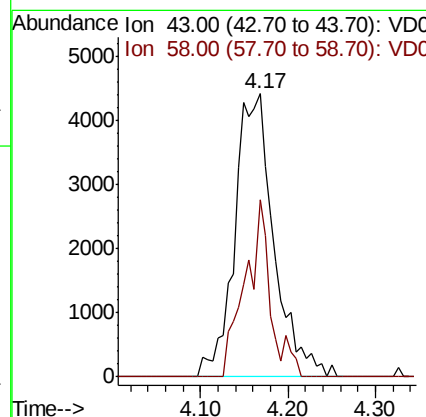
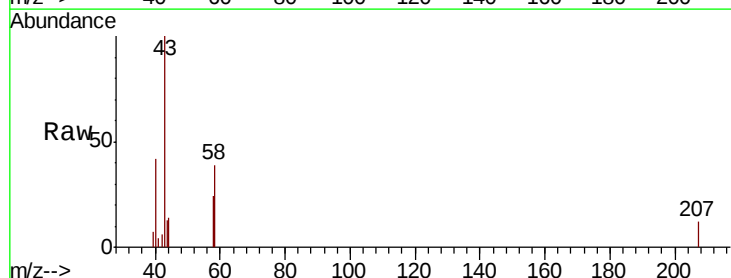
Tot Ion: 59 Resp: 2087
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

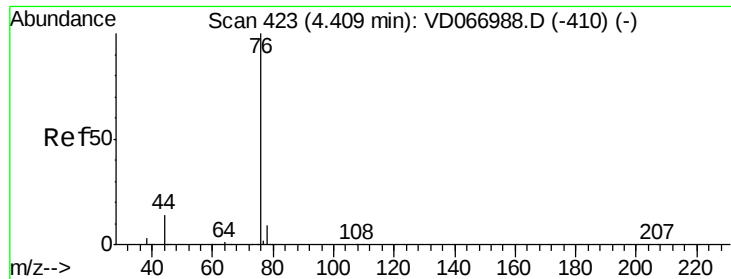


#16

Acetone
 Concen: 19.352 ug/l
 RT: 4.17 min Scan# 382
 Delta R.T. 0.01 min
 Lab File: VD067091.D
 Acq: 05 Oct 2020 18:42

Tgt Ion: 43 Resp: 13472
 Ion Ratio Lower Upper
 43 100
 58 62.8 25.9 38.9#

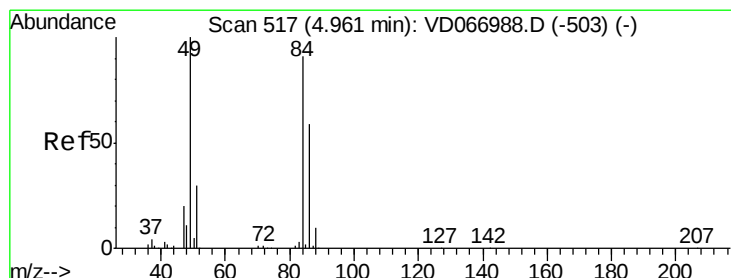
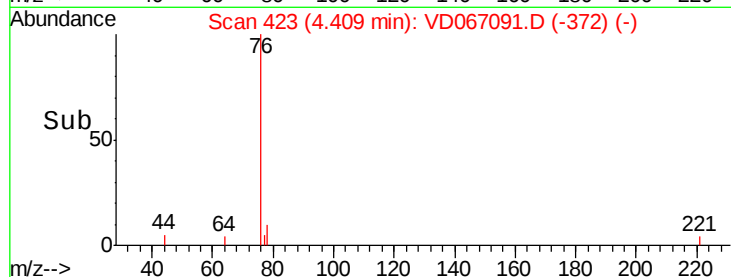
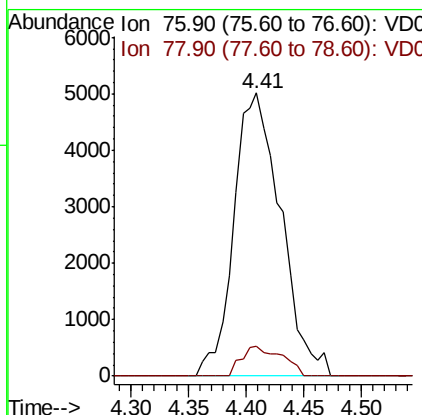
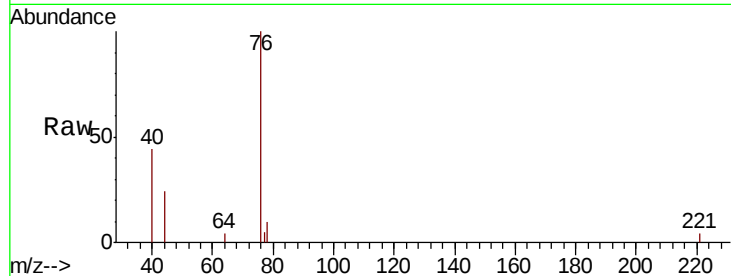




#17
Carbon Disulfide
Concen: 1.034 ug/l
RT: 4.41 min Scan# 423
Delta R.T. 0.00 min
Lab File: VD067091.D
Acq: 05 Oct 2020 18:42

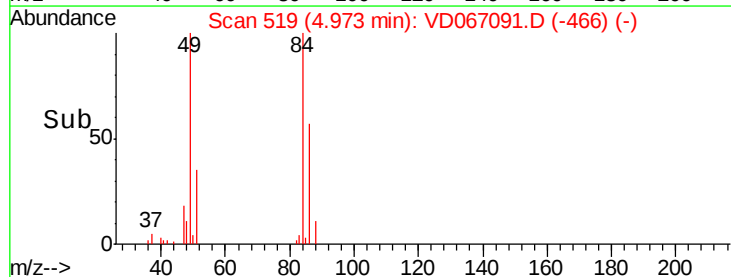
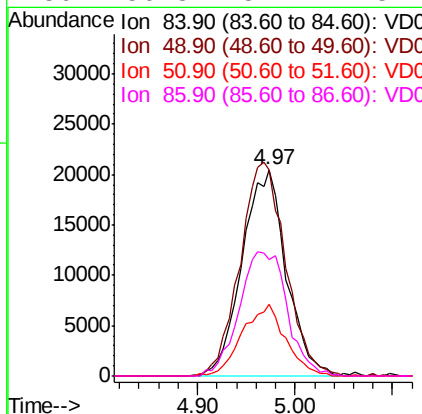
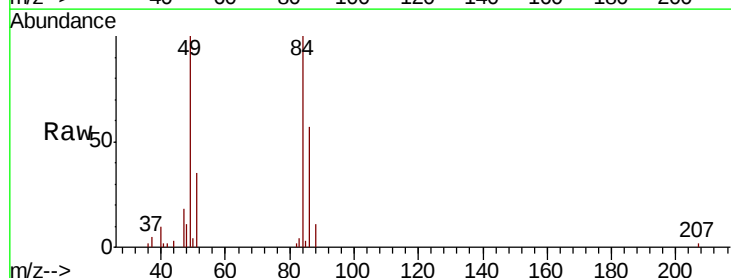
Instrument :
MSVOA_D
ClientSampleId :
PAV-B17-100120-18-19

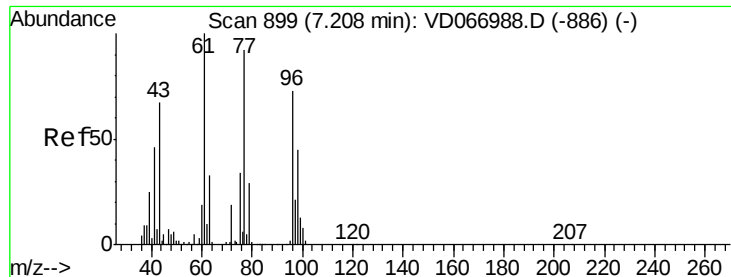
Tot Ion: 76 Resp: 14157
Ion Ratio Lower Upper
76 100
78 10.4 7.5 11.3



#20
Methylene Chloride
Concen: 6.747 ug/l
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD067091.D
Acq: 05 Oct 2020 18:42

Tgt Ion: 84 Resp: 64421
Ion Ratio Lower Upper
84 100
49 100.2 88.2 132.2
51 34.6 26.6 39.8
86 56.8 52.1 78.1





#25

2-Butanone

Concen: 3.161 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.02 min

Lab File: VD067091.D

Acq: 05 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleId :

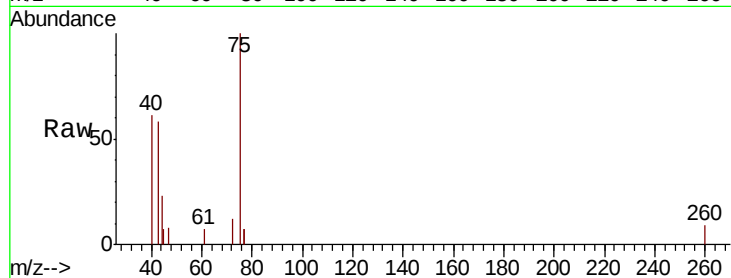
PAV-B17-100120-18-19

Tot Ion: 43 Resp: 3120

Ion Ratio Lower Upper

43 100

72 20.4 22.8 34.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.23

1500

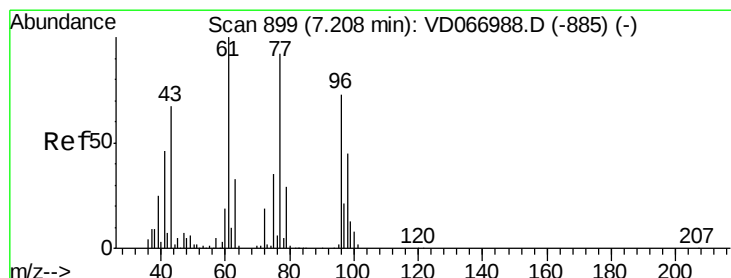
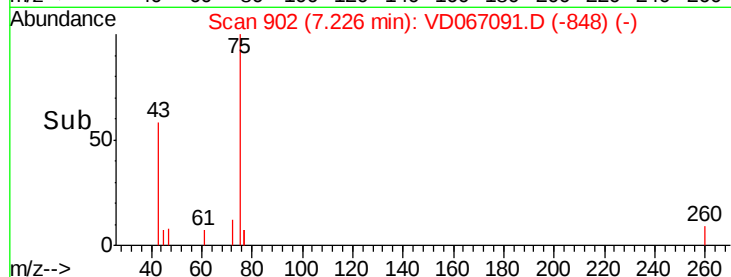
1000

500

0

7.15 7.20 7.25

Time-->



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD067091.D

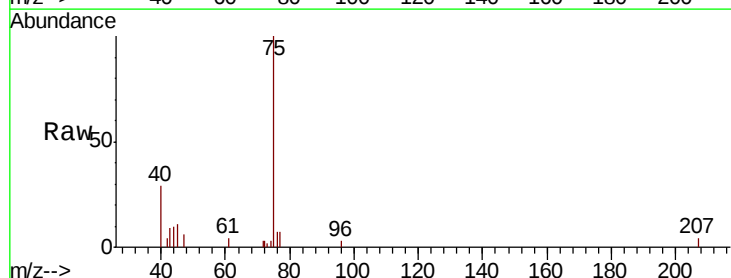
Acq: 05 Oct 2020 18:42

Tgt Ion: 77 Resp: 543

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

7.21

500

400

300

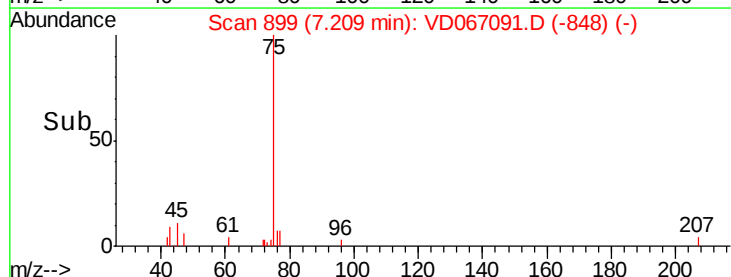
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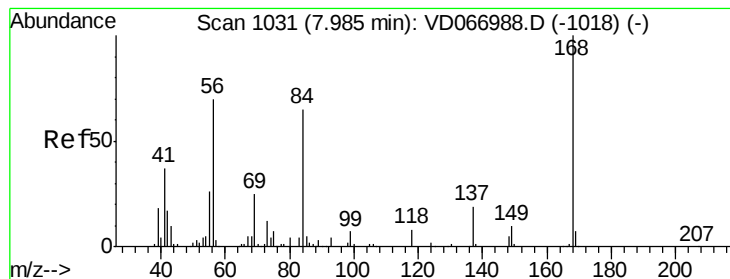
100

0

7.18 7.20 7.22

Time-->





#31

Cyclohexane

Concen: 1.417 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD067091.D

Acq: 05 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleId :

PAV-B17-100120-18-19

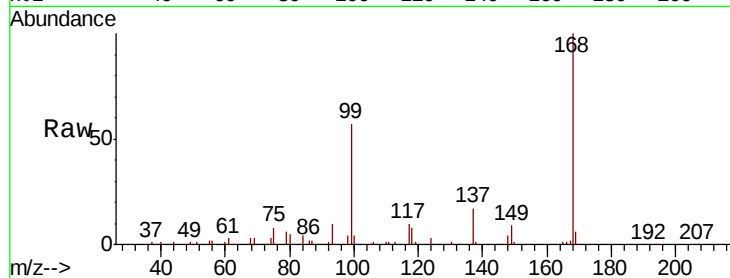
Tot Ion: 56 Resp: 9705

Ion Ratio Lower Upper

56 100

69 161.0 29.0 43.6#

84 177.5 74.2 111.2#

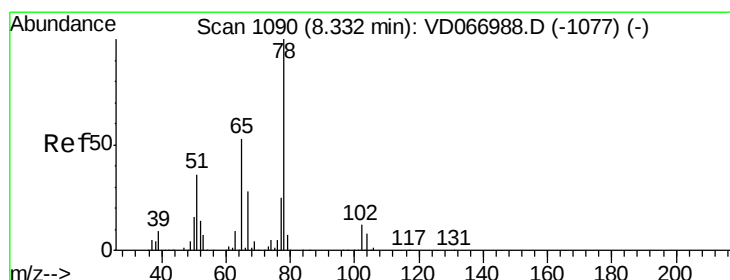
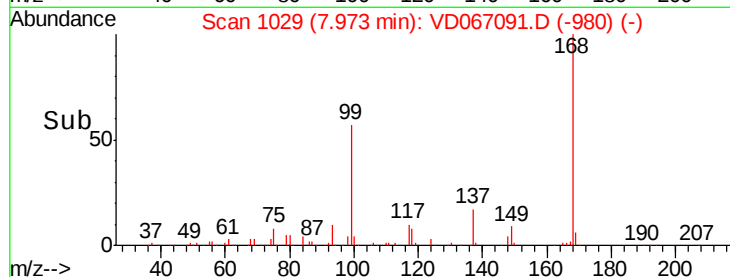
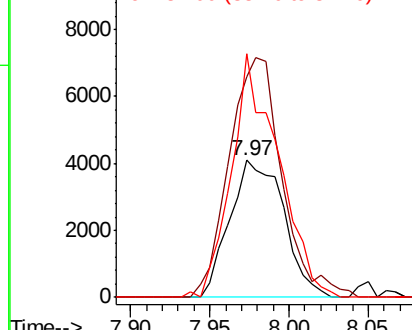


Abundance

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: 48.326 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD067091.D

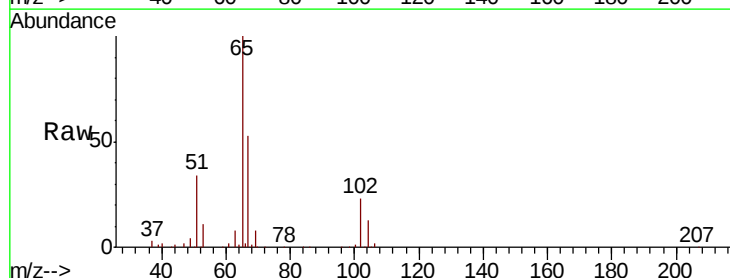
Acq: 05 Oct 2020 18:42

Tgt Ion: 65 Resp: 220395

Ion Ratio Lower Upper

65 100

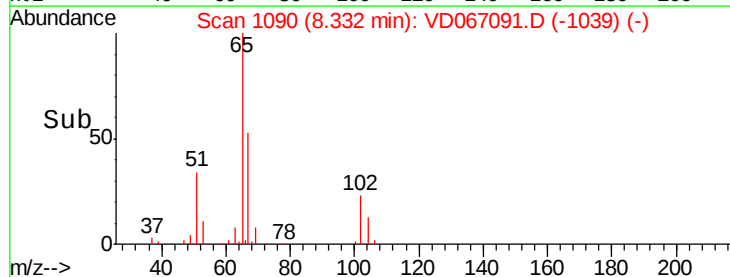
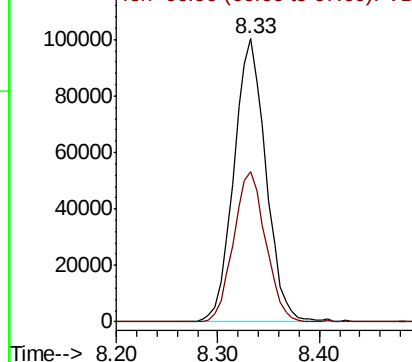
67 53.2 0.0 106.8

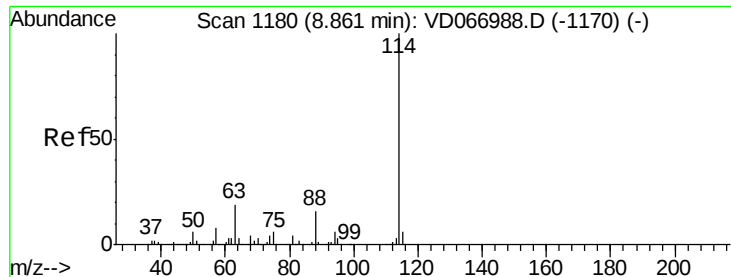


Abundance

Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

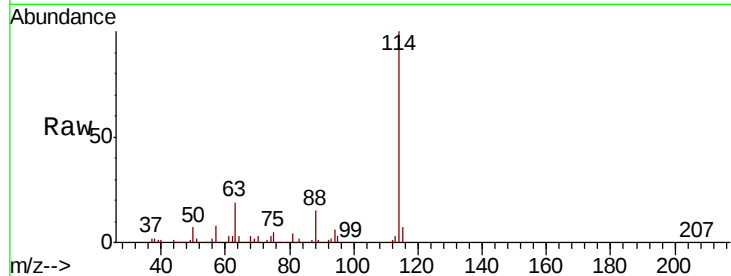




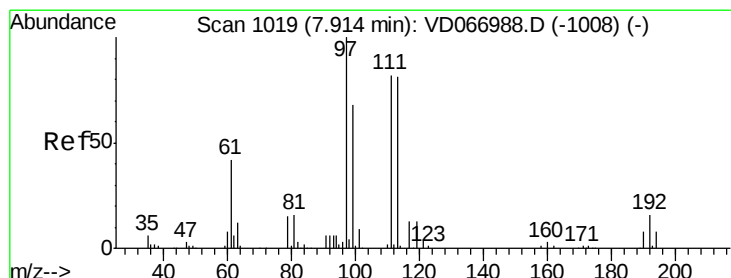
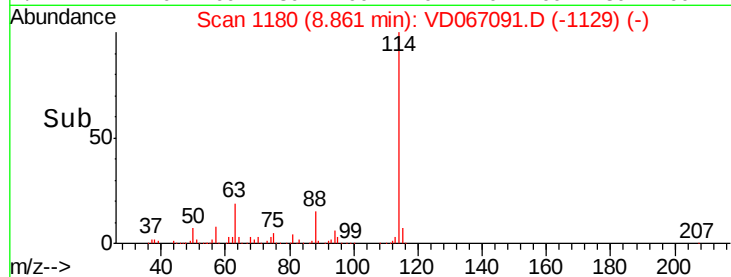
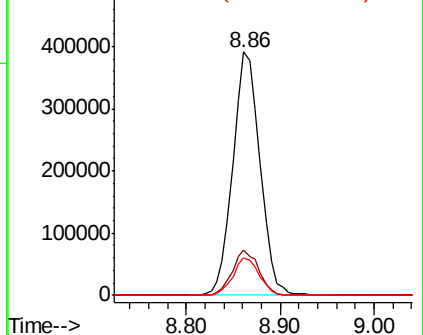
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD067091.D
 Acq: 05 Oct 2020 18:42

Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B17-100120-18-19

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	38.4
88	15.2	0.0	31.2

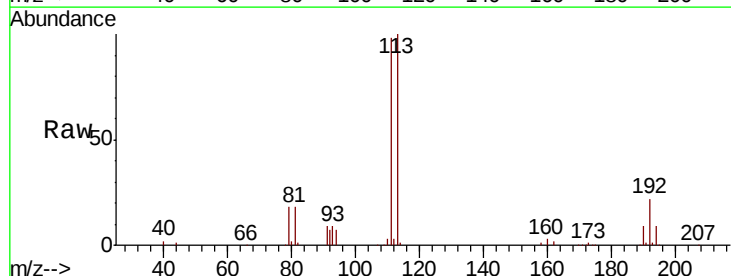


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VDC
 Ion 87.90 (87.60 to 88.60): VDC

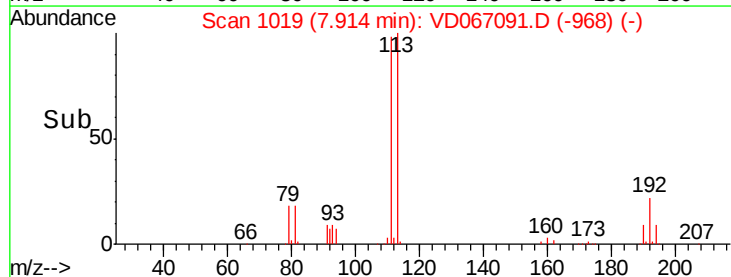
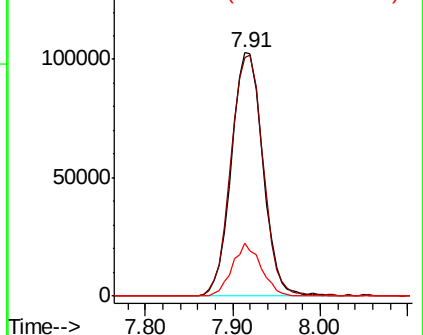


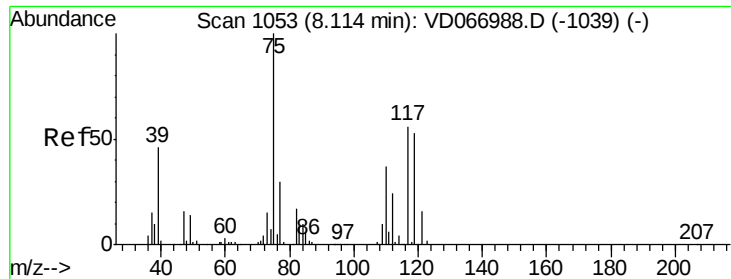
#35
 Dibromofluoromethane
 Concen: 48.738 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD067091.D
 Acq: 05 Oct 2020 18:42

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.2	83.0	124.4
192	19.9	15.5	23.3



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: 4.776 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067091.D

Acq: 05 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleId :

PAV-B17-100120-18-19

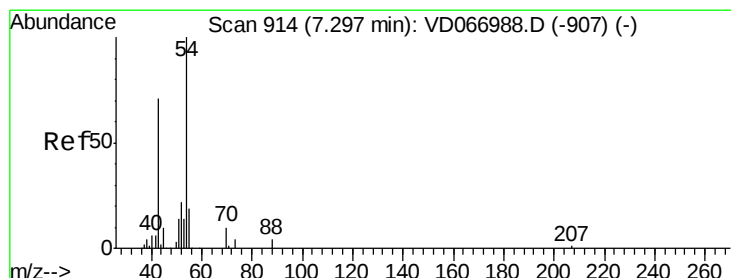
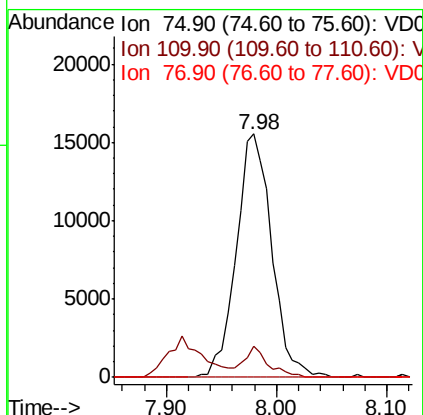
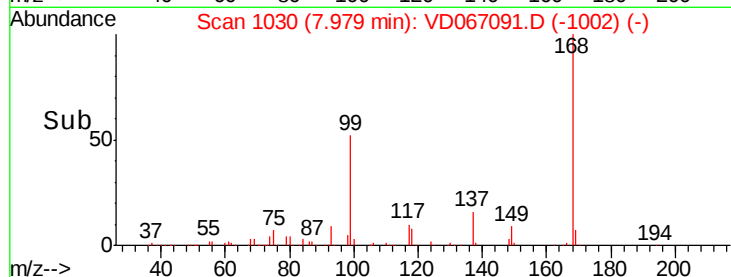
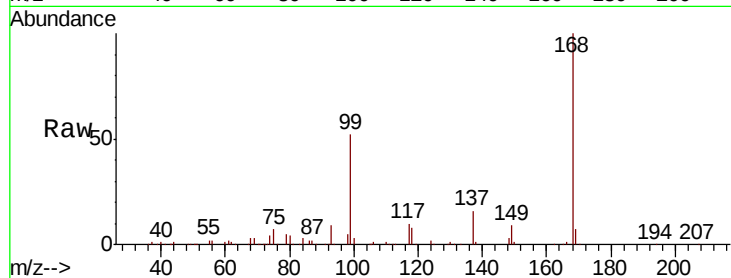
Tot Ion: 75 Resp: 34985

Ion Ratio Lower Upper

75 100

110 8.5 18.4 55.0#

77 0.0 24.8 37.2#



#37

Ethyl Acetate

Concen: 1.229 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.07 min

Lab File: VD067091.D

Acq: 05 Oct 2020 18:42

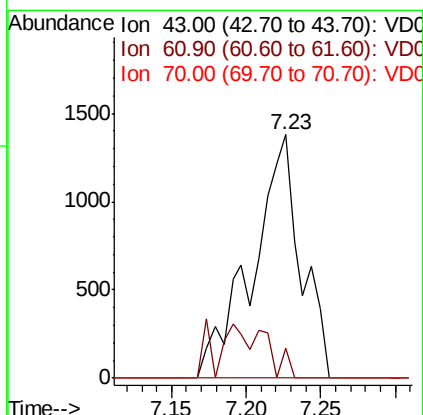
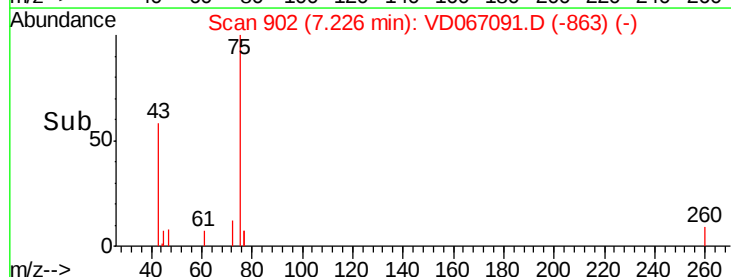
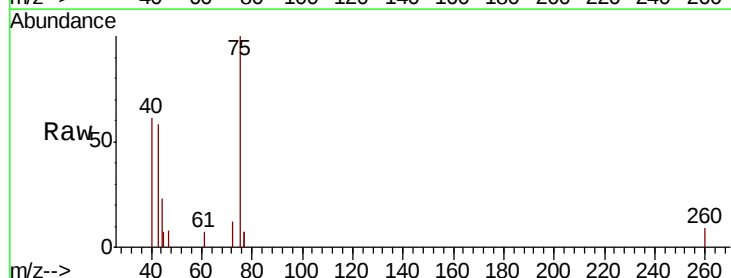
Tgt Ion: 43 Resp: 3120

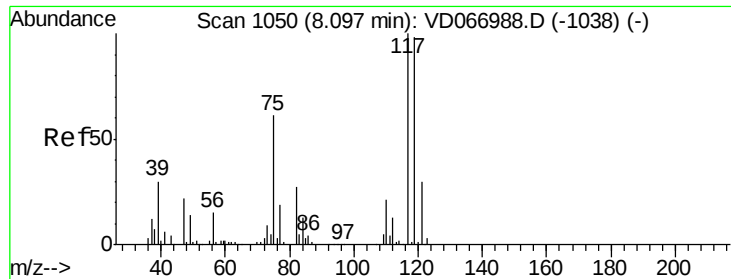
Ion Ratio Lower Upper

43 100

61 0.0 12.5 18.7#

70 0.0 9.4 14.0#





#38

Carbon Tetrachloride

Concen: 5.919 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067091.D

Acq: 05 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleId :

PAV-B17-100120-18-19

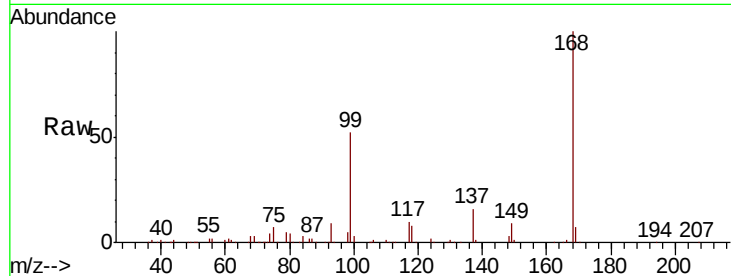
Tot Ion:117 Resp: 46915

Ion Ratio Lower Upper

117 100

119 5.1 78.7 118.1#

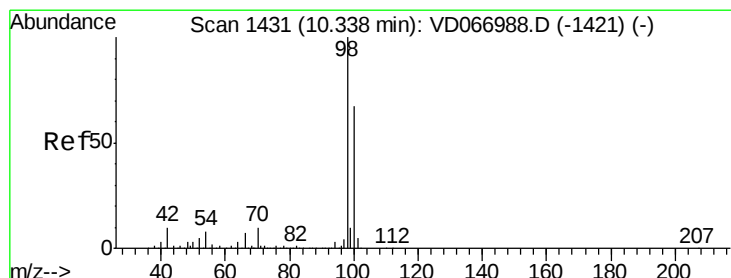
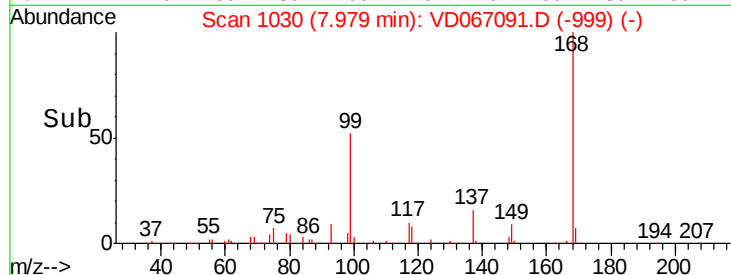
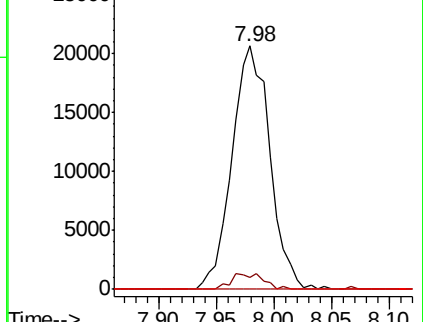
121 0.0 24.2 36.2#



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: 49.031 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067091.D

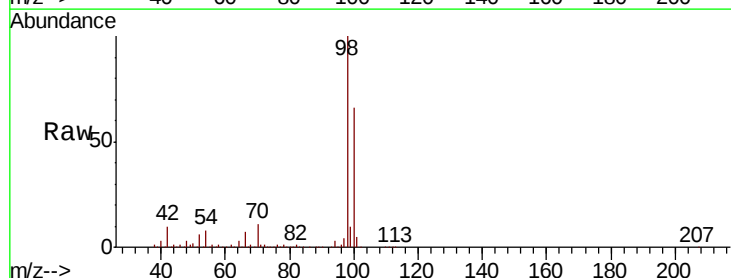
Acq: 05 Oct 2020 18:42

Tgt Ion: 98 Resp: 919260

Ion Ratio Lower Upper

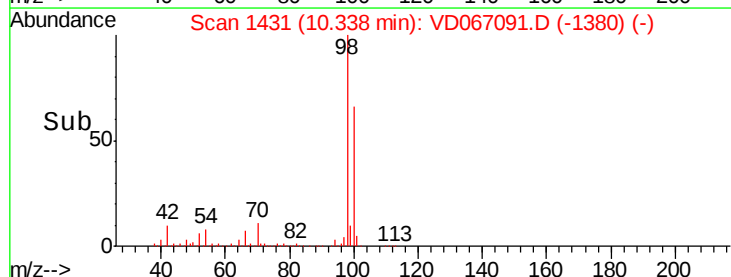
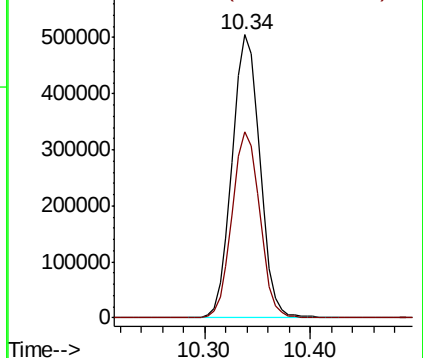
98 100

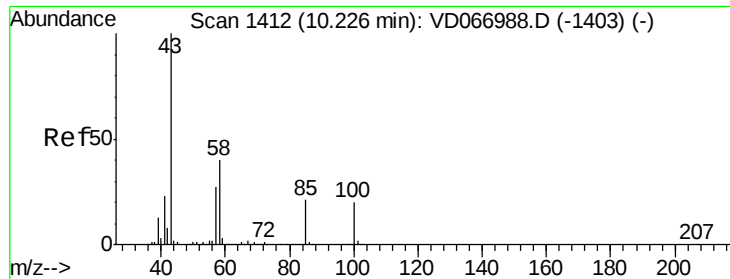
100 65.6 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.732 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD067091.D

Acq: 05 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleId :

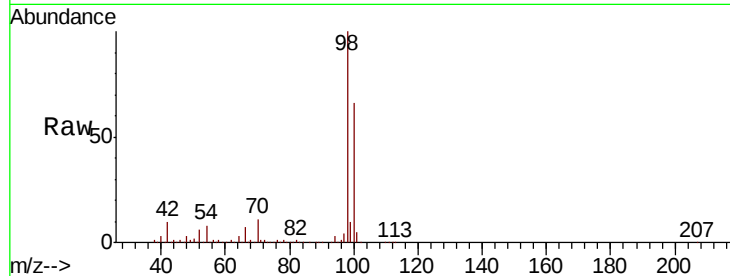
PAV-B17-100120-18-19

Tot Ion: 43 Resp: 4033

Ion Ratio Lower Upper

43 100

58 187.6 33.8 50.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4000

3000

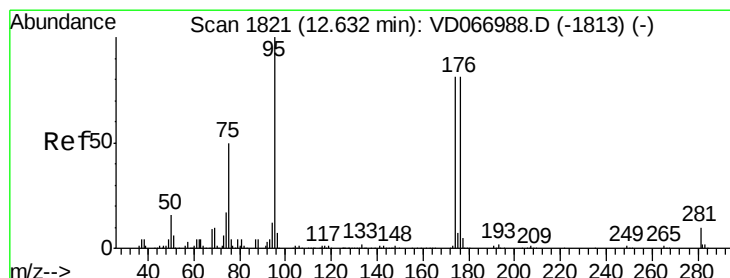
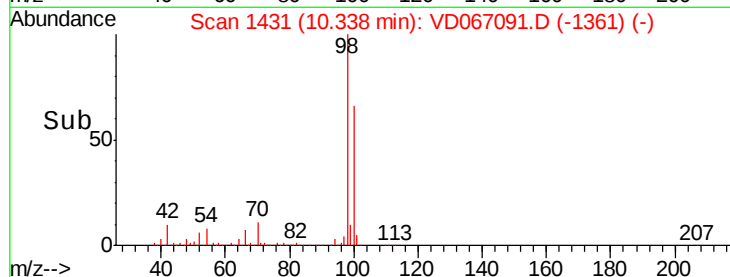
2000

1000

0

10.30 10.35 10.40

Time-->



#62

4-Bromofluorobenzene

Concen: 50.577 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067091.D

Acq: 05 Oct 2020 18:42

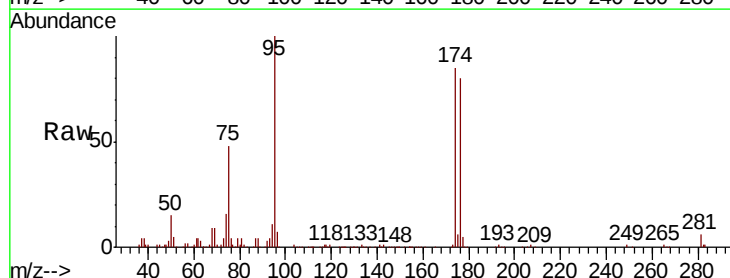
Tgt Ion: 95 Resp: 321903

Ion Ratio Lower Upper

95 100

174 82.6 0.0 167.6

176 80.9 0.0 162.4



Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

250000

200000

150000

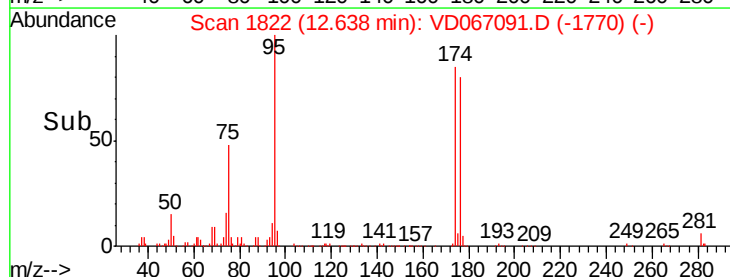
100000

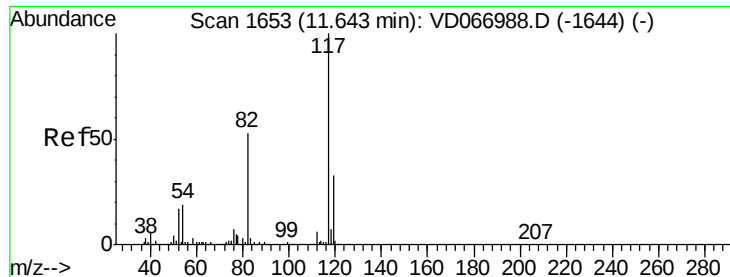
50000

0

12.55 12.60 12.65 12.70

Time-->

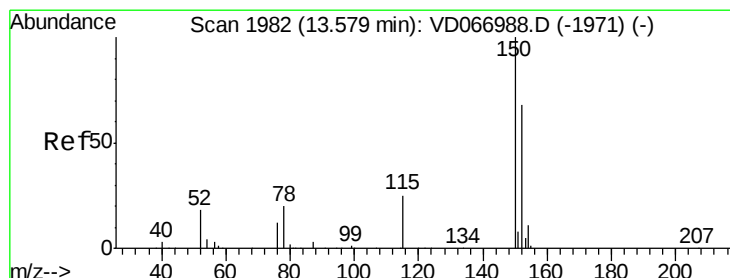
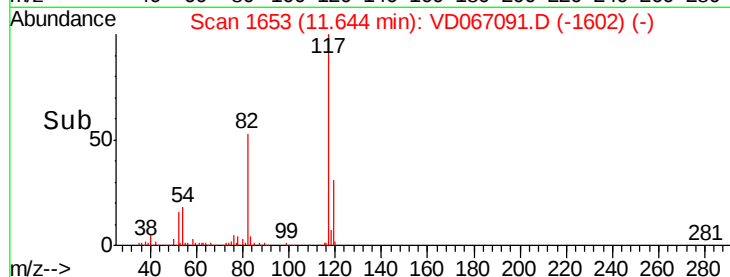
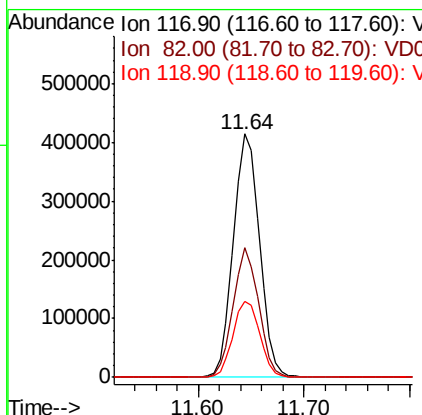
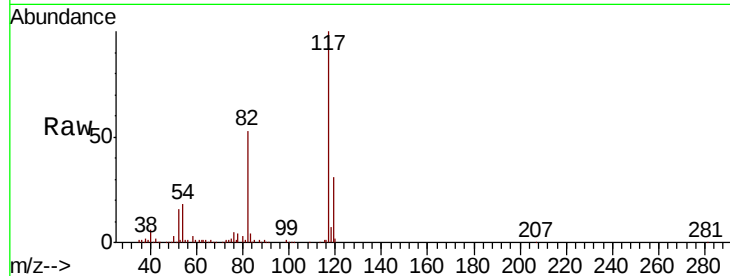




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067091.D
Acq: 05 Oct 2020 18:42

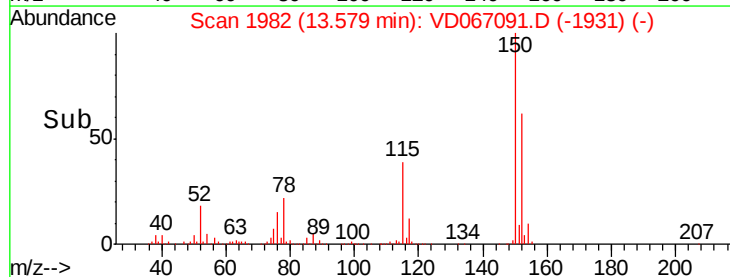
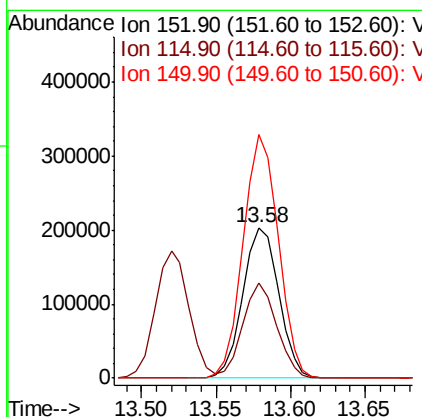
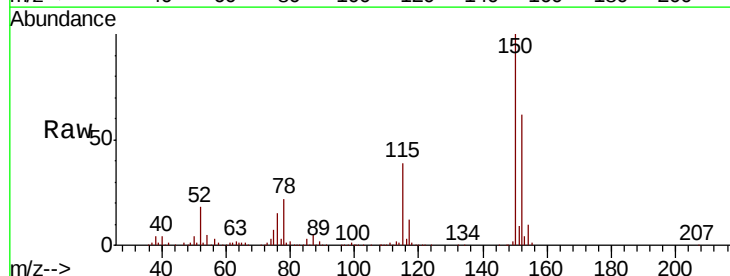
Instrument :
MSVOA_D
ClientSampleId :
PAV-B17-100120-18-19

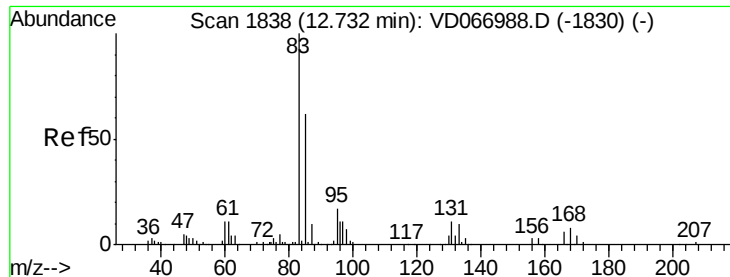
Tot Ion:117 Resp: 710012
Ion Ratio Lower Upper
117 100
82 53.1 42.6 63.8
119 31.2 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD067091.D
Acq: 05 Oct 2020 18:42

Tgt Ion:152 Resp: 337763
Ion Ratio Lower Upper
152 100
115 59.7 29.6 88.8
150 158.7 0.0 344.8





#75

1,1,2,2-Tetrachloroethane

Concen: 9.522 ug/l

RT: 12.94 min Scan# 1873

Delta R.T. 0.21 min

Lab File: VD067091.D

Acq: 05 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleId :

PAV-B17-100120-18-19

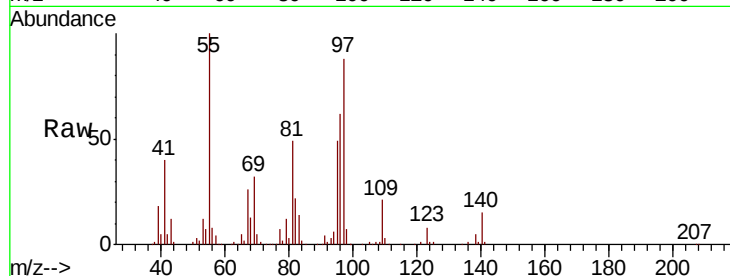
Tot Ion: 83 Resp: 36794

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

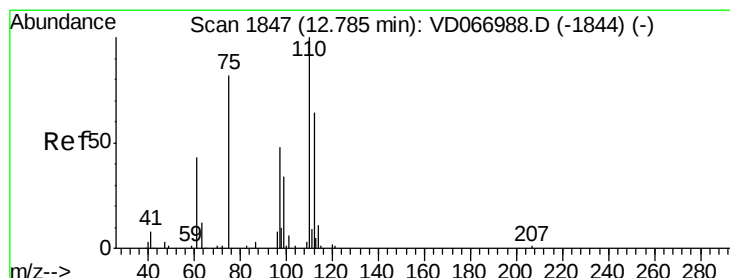
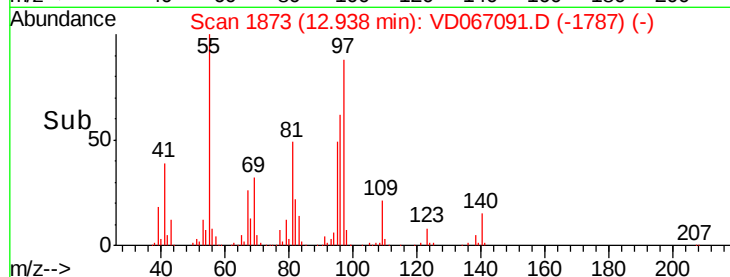
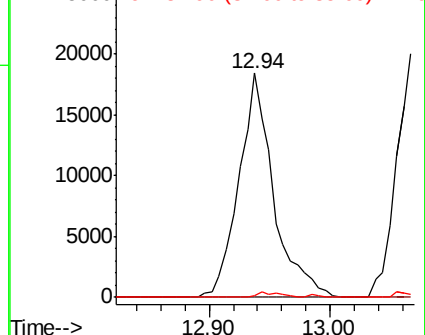
85 1.6 32.0 96.2#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 53.002 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067091.D

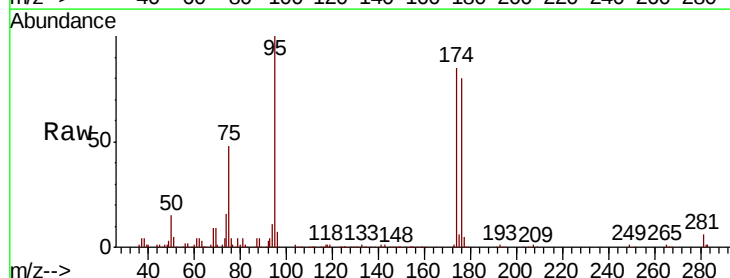
Acq: 05 Oct 2020 18:42

Tgt Ion: 75 Resp: 155933

Ion Ratio Lower Upper

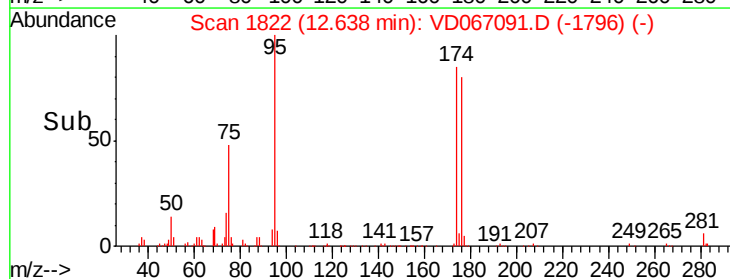
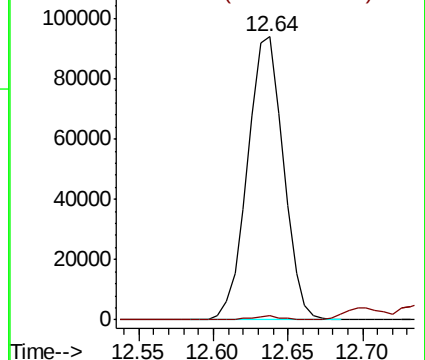
75 100

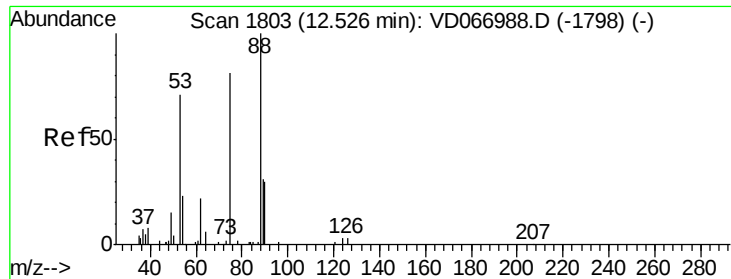
77 1.3 0.0 0.0#



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: 132.140 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067091.D

Acq: 05 Oct 2020 18:42

Instrument :

MSVOA_D

ClientSampleId :

PAV-B17-100120-18-19

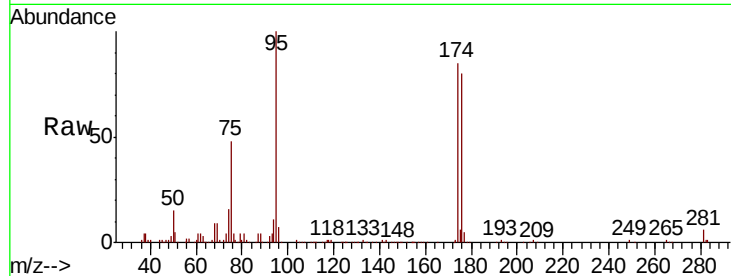
Tot Ion: 75 Resp: 155933

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

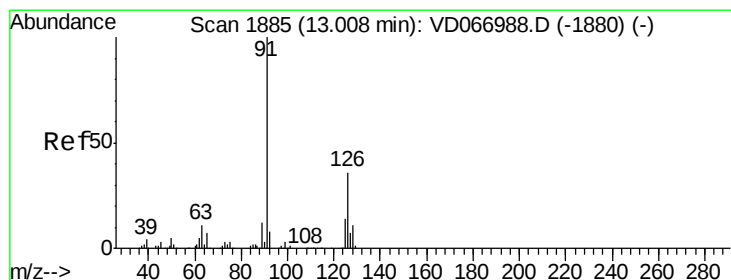
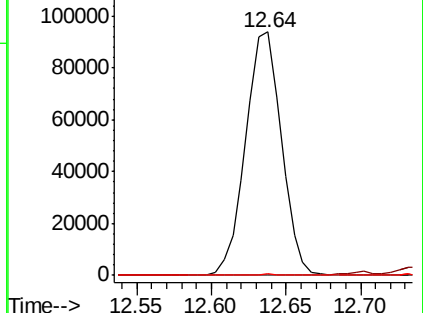
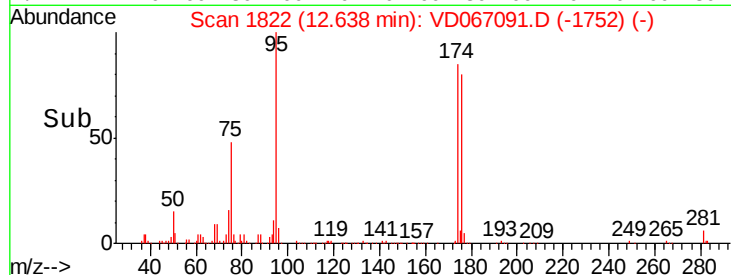
89 0.2 38.9 58.3#



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



#82

4-Chlorotoluene

Concen: 1.271 ug/l

RT: 13.07 min Scan# 1895

Delta R.T. 0.06 min

Lab File: VD067091.D

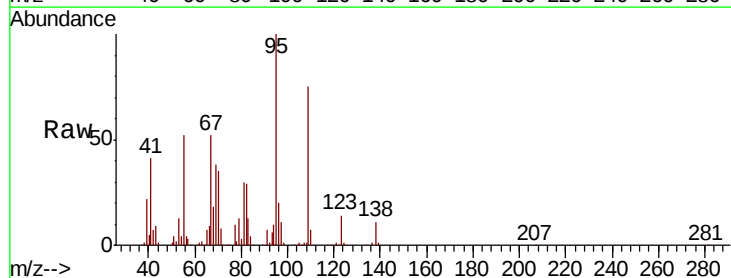
Acq: 05 Oct 2020 18:42

Tgt Ion: 91 Resp: 20968

Ion Ratio Lower Upper

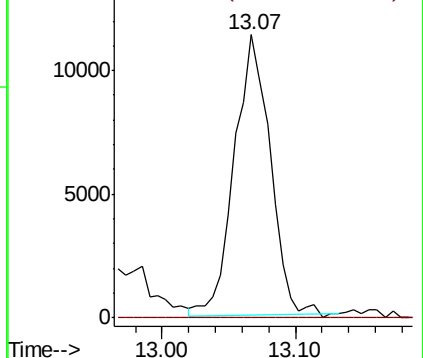
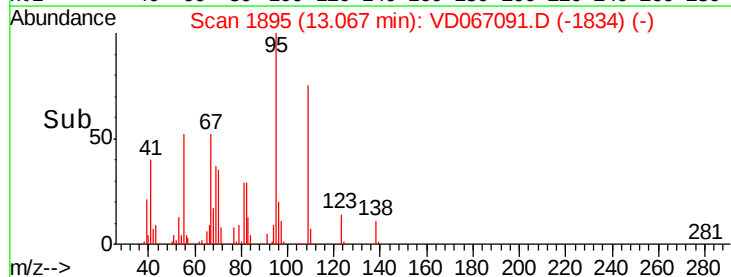
91 100

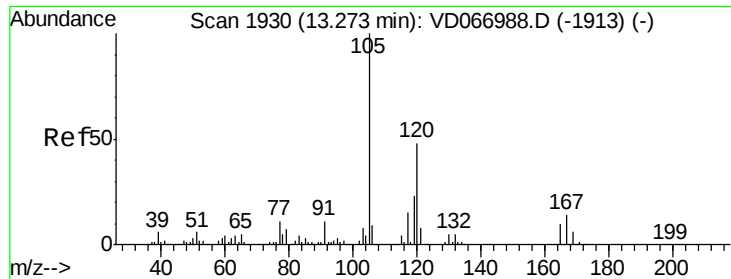
126 0.0 17.5 52.5#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V

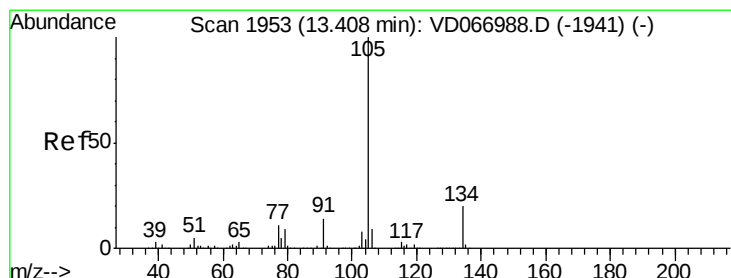
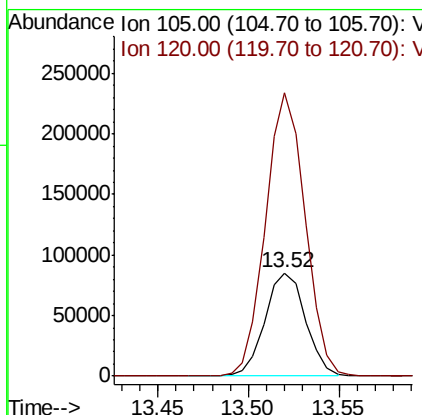
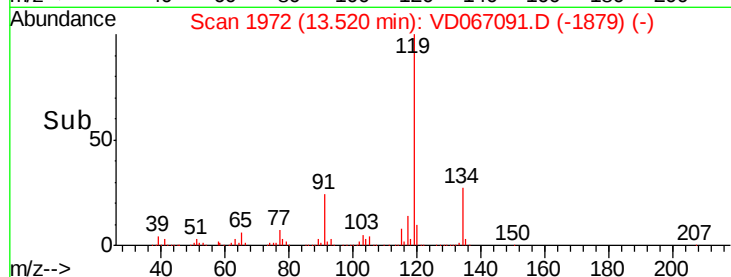
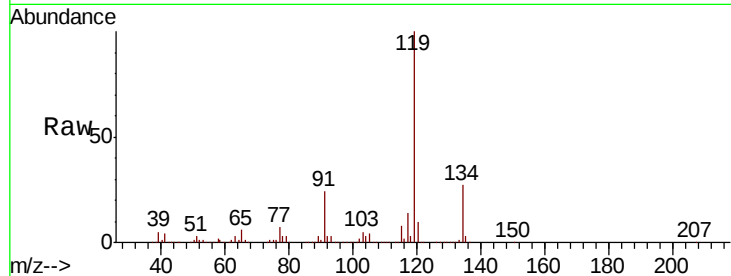




#84
1,2,4-Trimethylbenzene
Concen: 6.862 ug/l
RT: 13.52 min Scan# 1972
Delta R.T. 0.25 min
Lab File: VD067091.D
Acq: 05 Oct 2020 18:42

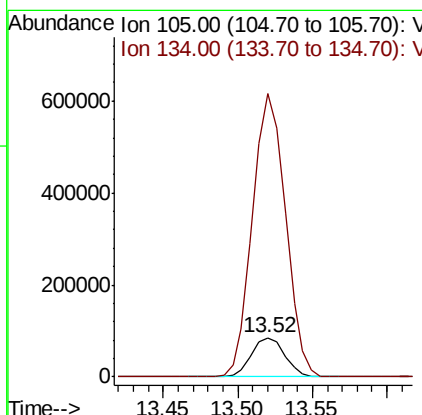
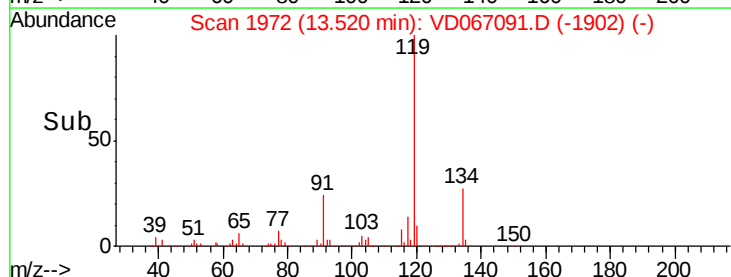
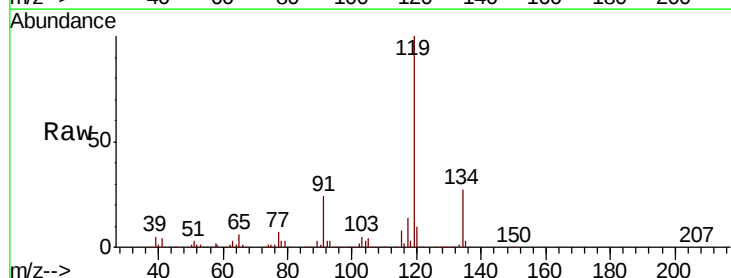
Instrument :
MSVOA_D
ClientSampleId :
PAV-B17-100120-18-19

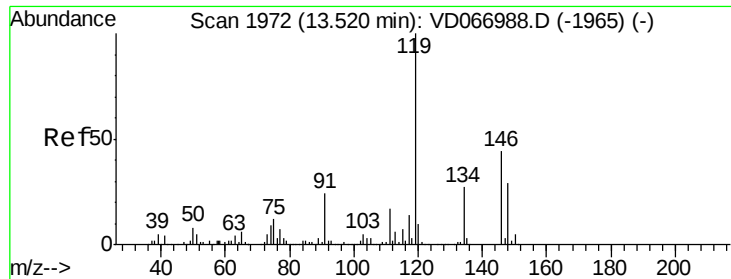
Tot Ion:105 Resp: 132688
Ion Ratio Lower Upper
105 100
120 267.6 23.3 69.8#



#85
sec-Butylbenzene
Concen: 5.791 ug/l
RT: 13.52 min Scan# 1972
Delta R.T. 0.11 min
Lab File: VD067091.D
Acq: 05 Oct 2020 18:42

Tgt Ion:105 Resp: 133074
Ion Ratio Lower Upper
105 100
134 710.6 10.3 30.8#





#86
 p-Isopropyltoluene
 Concen: 166.396 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD067091.D
 Acq: 05 Oct 2020 18:42

Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B17-100120-18-19

Tot Ion:119 Resp: 3544903
 Ion Ratio Lower Upper
 119 100
 134 26.7 13.1 39.1
 91 23.8 11.7 35.1

