

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100520\
 Data File : VD067092.D
 Acq On : 05 Oct 2020 19:09
 Operator : VA/SY
 Sample : L4242-17
 Misc : 7.22G/5.00ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B24-100120-DP

Quant Time: Oct 06 07:20:11 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	462079	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	788828	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	714104	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	324902	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	223349	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
35) Dibromofluoromethane	7.91	113	249974	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	
50) Toluene-d8	10.34	98	913724	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
62) 4-Bromofluorobenzene	12.64	95	309262	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	

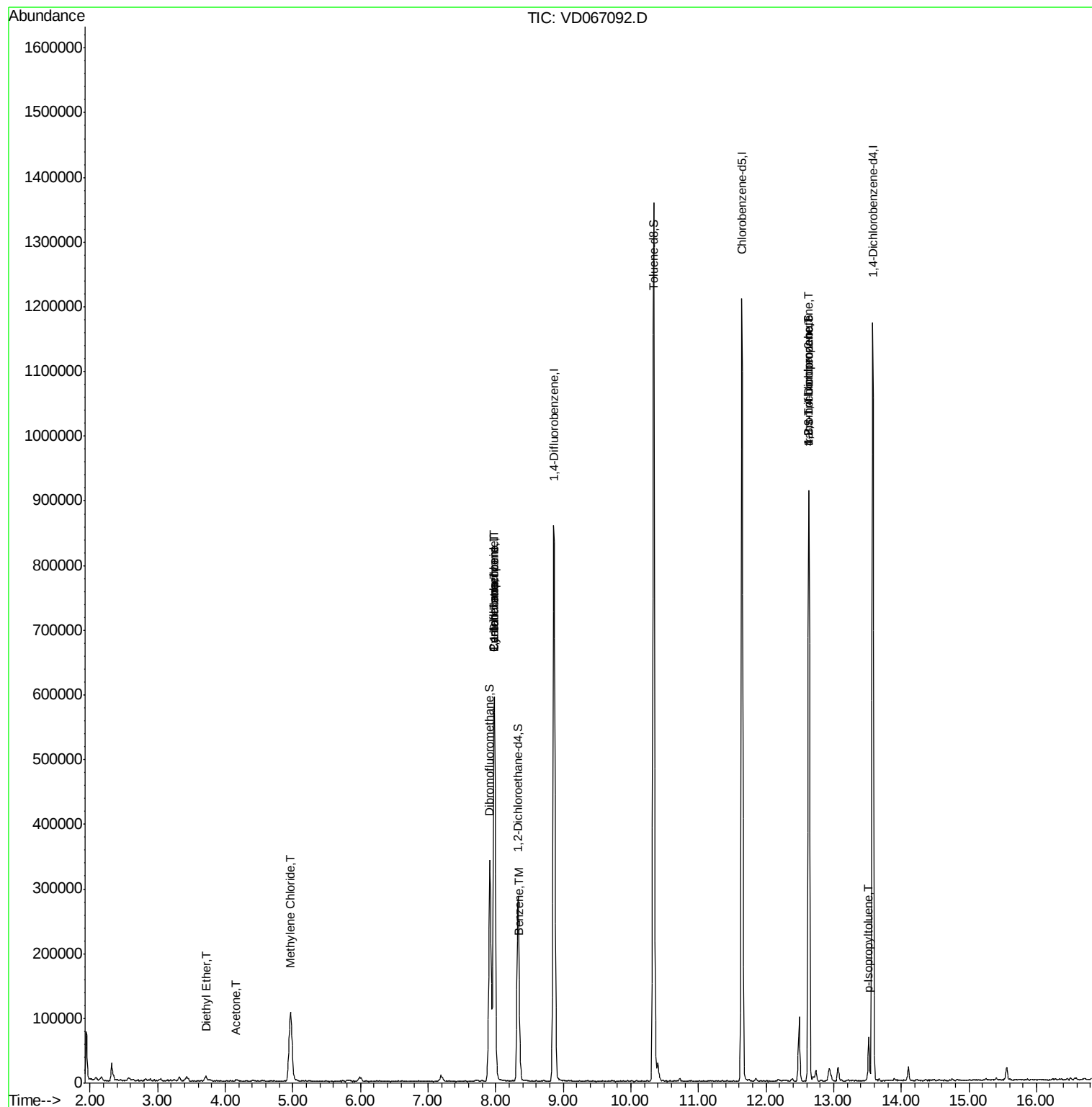
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.78	94	87	Below Cal	#	1
8) Diethyl Ether	3.71	74	3961	1.948	ug/l	90
11) Tert butyl alcohol	5.22	59	1851	Below Cal	#	72
16) Acetone	4.16	43	3319	4.885	ug/l #	75
20) Methylene Chloride	4.97	84	87854	12.811	ug/l	95
26) 2,2-Dichloropropane	7.21	77	61	Below Cal	#	53
31) Cyclohexane	7.98	56	8797	1.316	ug/l #	1
36) 1,1-Dichloropropene	7.97	75	32940	4.480	ug/l #	50
38) Carbon Tetrachloride	7.98	117	46520	5.847	ug/l #	15
40) Benzene	8.36	78	27399	1.342	ug/l	98
76) 1,2,3-Trichloropropane	12.63	75	154248	54.504	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	154248	135.887	ug/l #	12
86) p-Isopropyltoluene	13.52	119	35797	1.747	ug/l	98

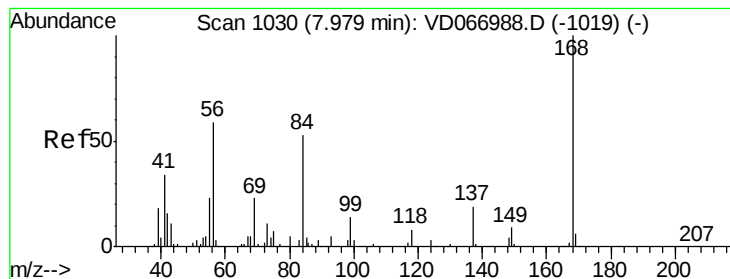
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 01 15:19:17 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: VD067092.D

Acq: 05 Oct 2020 19:09

Instrument :

MSVOA_D

ClientSampleId :

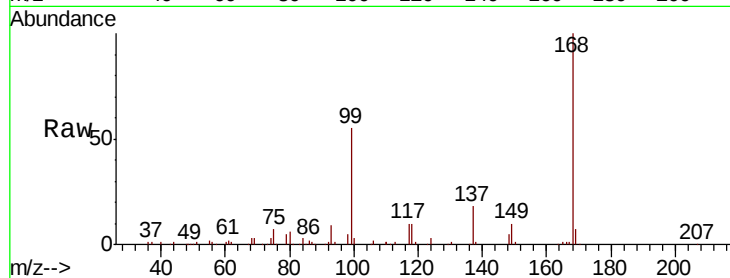
PAV-B24-100120-DP

Tot Ion:168 Resp: 462079

Ion Ratio Lower Upper

168 100

99 54.6 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

200000

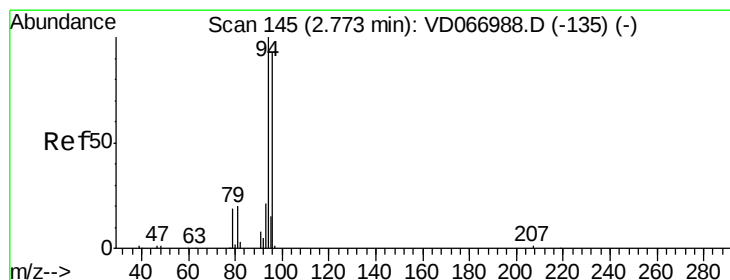
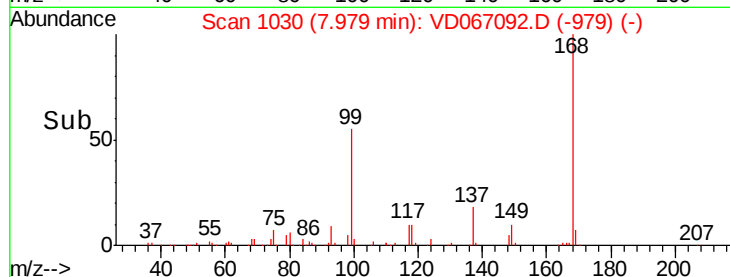
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067092.D

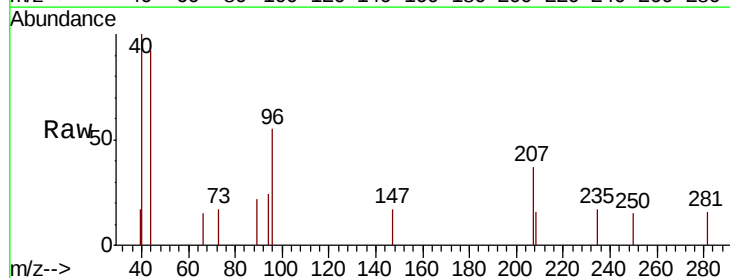
Acq: 05 Oct 2020 19:09

Tgt Ion: 94 Resp: 87

Ion Ratio Lower Upper

94 100

96 230.1 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

600

500

400

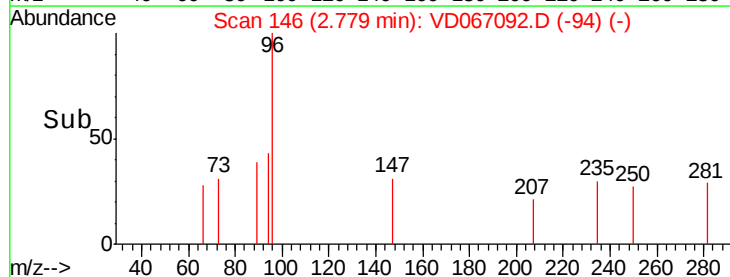
300

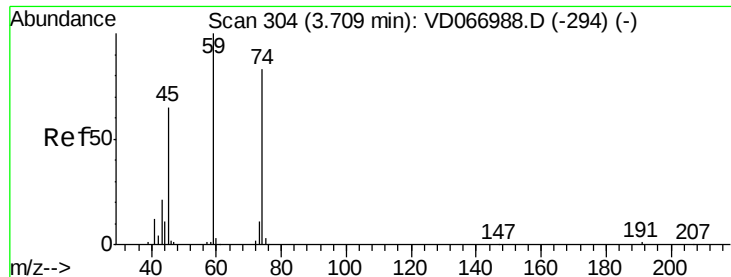
200

100

0

Time-->





#8

Diethyl Ether

Concen: 1.948 ug/l

RT: 3.71 min Scan# 304

Delta R.T. 0.00 min

Lab File: VD067092.D

Acq: 05 Oct 2020 19:09

Instrument :

MSVOA_D

ClientSampleId :

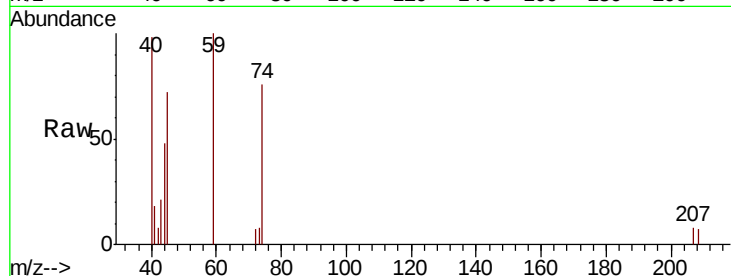
PAV-B24-100120-DP

Tot Ion: 74 Resp: 3961

Ion Ratio Lower Upper

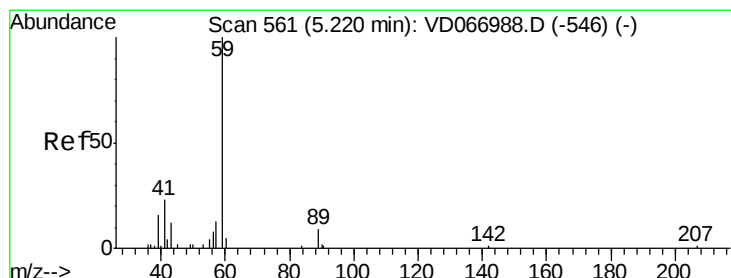
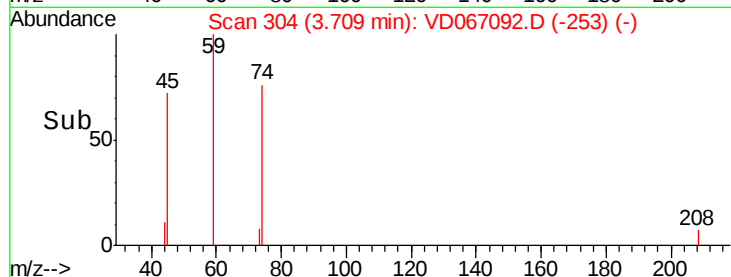
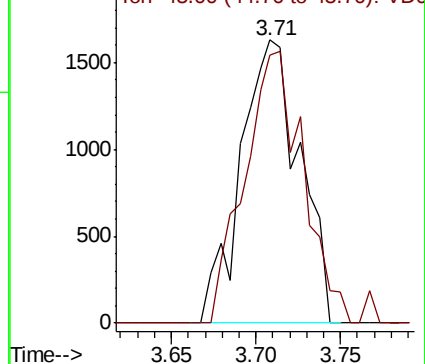
74 100

45 95.3 43.1 129.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.22 min Scan# 561

Delta R.T. 0.00 min

Lab File: VD067092.D

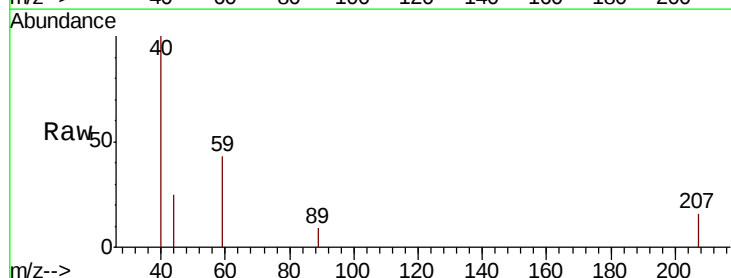
Acq: 05 Oct 2020 19:09

Tgt Ion: 59 Resp: 1851

Ion Ratio Lower Upper

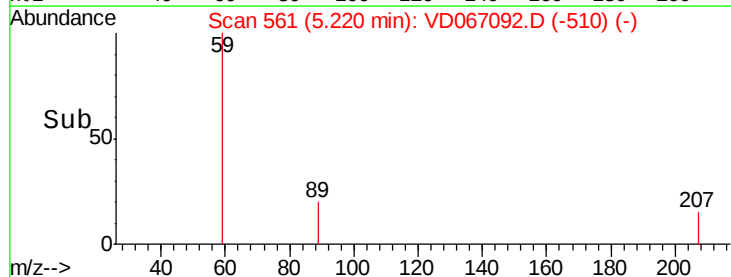
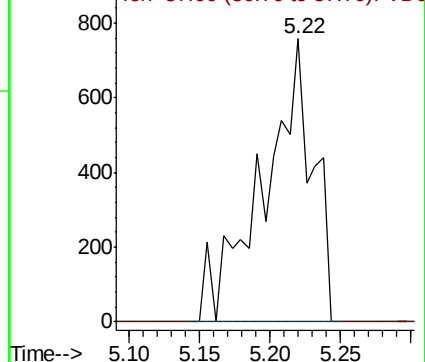
59 100

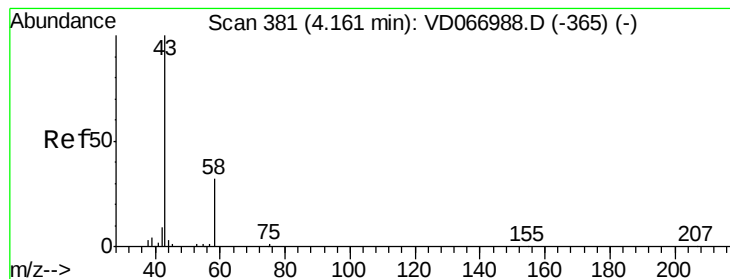
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 4.885 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.00 min

Lab File: VD067092.D

Acq: 05 Oct 2020 19:09

Instrument :

MSVOA_D

ClientSampleId :

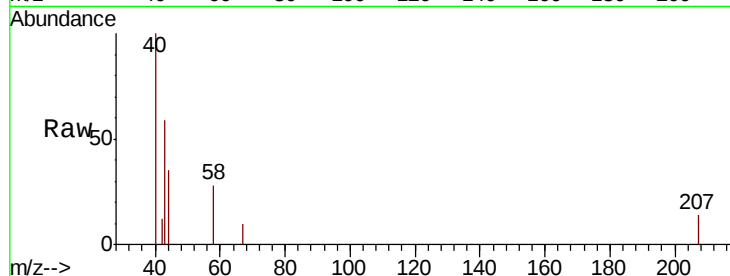
PAV-B24-100120-DP

Tot Ion: 43 Resp: 3319

Ion Ratio Lower Upper

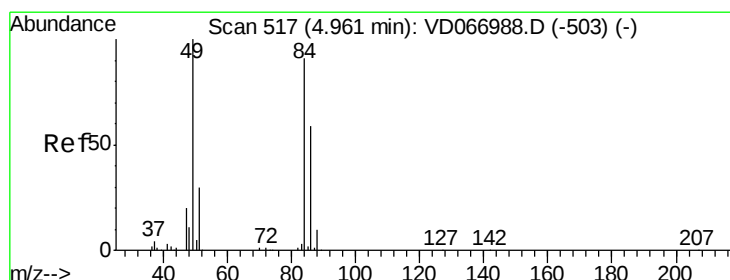
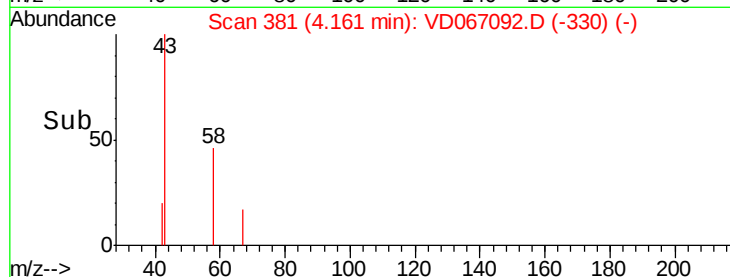
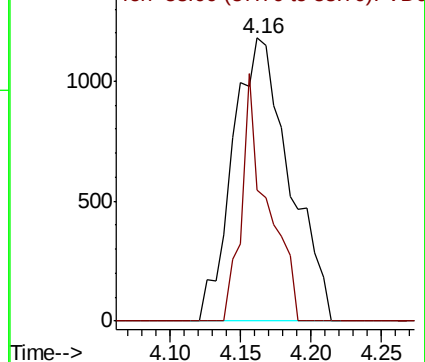
43 100

58 46.5 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: 12.811 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067092.D

Acq: 05 Oct 2020 19:09

Tgt Ion: 84 Resp: 87854

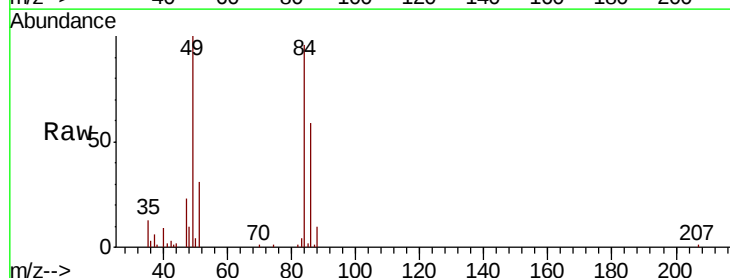
Ion Ratio Lower Upper

84 100

49 104.4 88.2 132.2

51 32.5 26.6 39.8

86 61.1 52.1 78.1

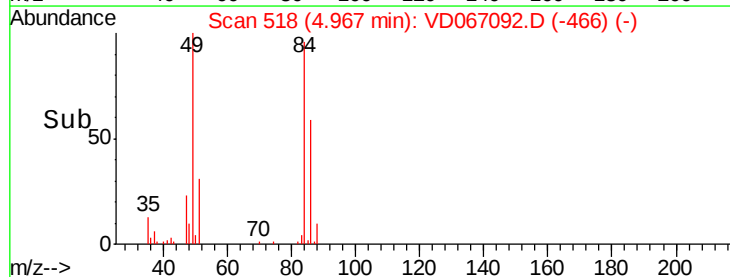
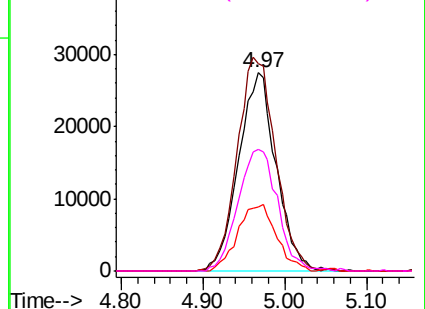


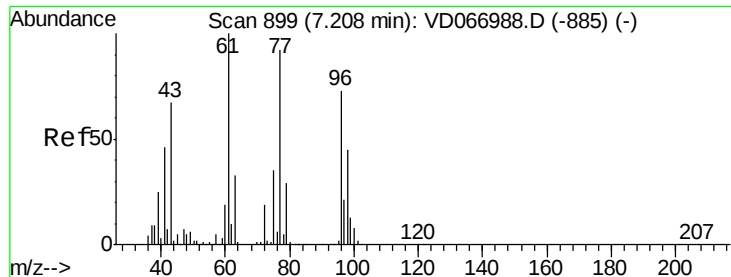
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.21 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD067092.D

Acq: 05 Oct 2020 19:09

Instrument :

MSVOA_D

ClientSampleId :

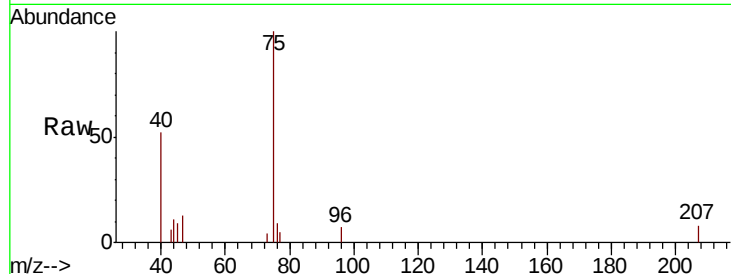
PAV-B24-100120-DP

Tot Ion: 77 Resp: 61

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

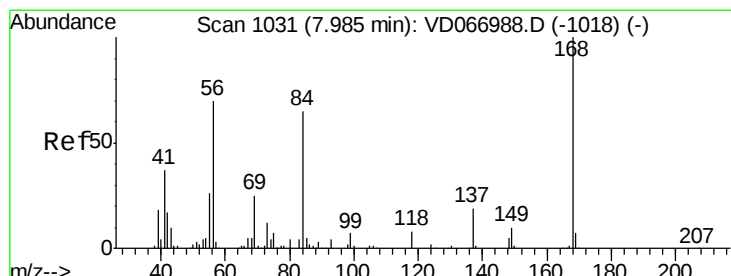
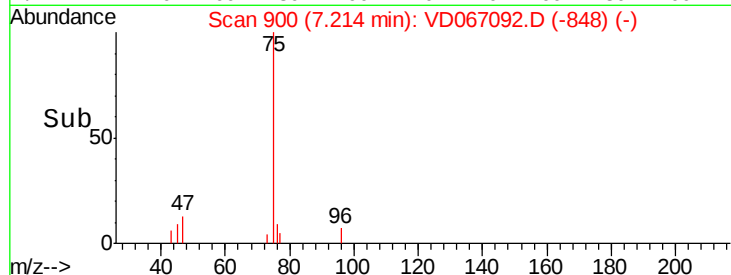
150

100

50

0

Time--> 7.20 7.21 7.22 7.23



#31

Cyclohexane

Concen: 1.316 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067092.D

Acq: 05 Oct 2020 19:09

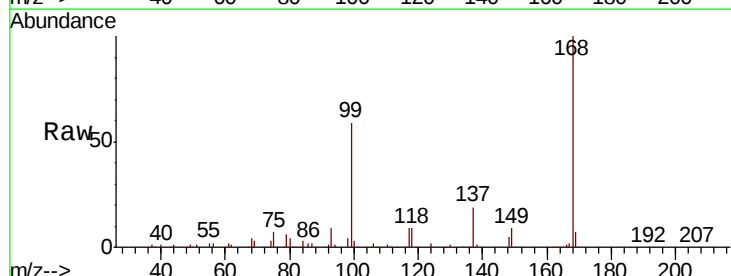
Tgt Ion: 56 Resp: 8797

Ion Ratio Lower Upper

56 100

69 189.8 29.0 43.6#

84 171.3 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

8000

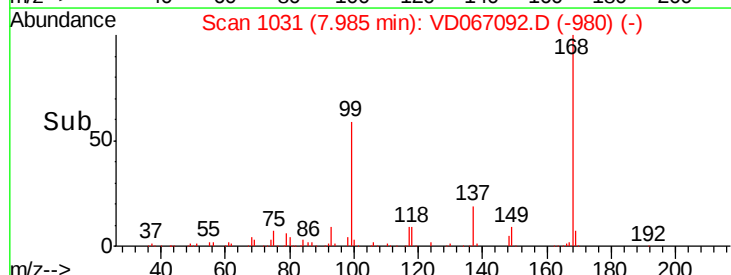
6000

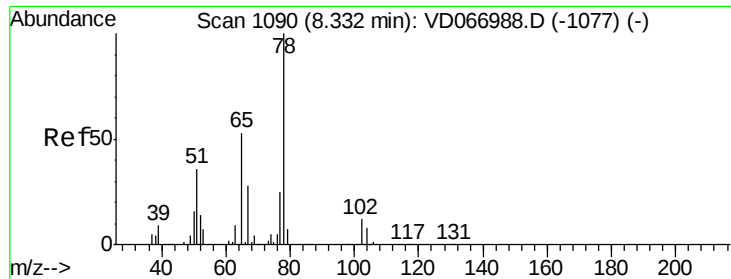
4000

2000

0

Time--> 7.90 7.95 8.00 8.05





#33

1,2-Dichloroethane-d4

Concen: 50.183 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD067092.D

Acq: 05 Oct 2020 19:09

Instrument :

MSVOA_D

ClientSampleId :

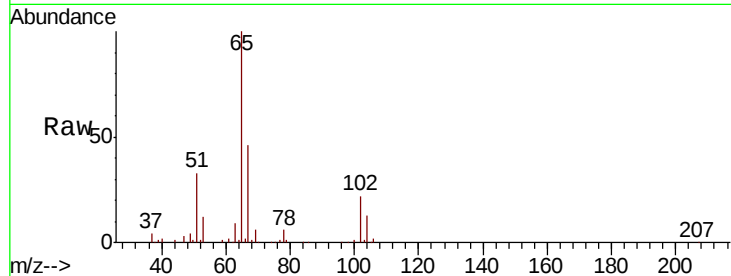
PAV-B24-100120-DP

Tot Ion: 65 Resp: 223349

Ion Ratio Lower Upper

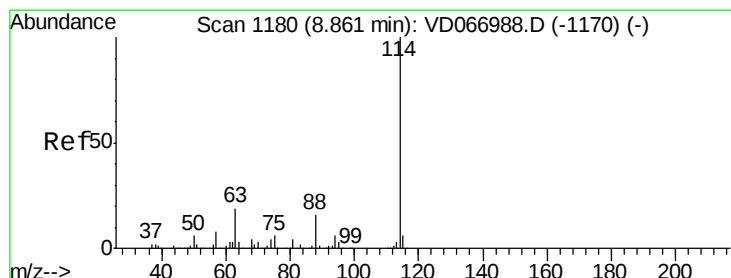
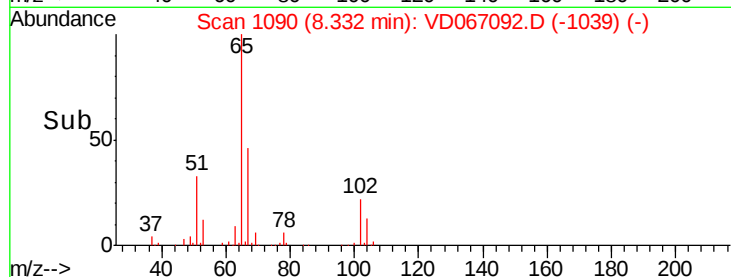
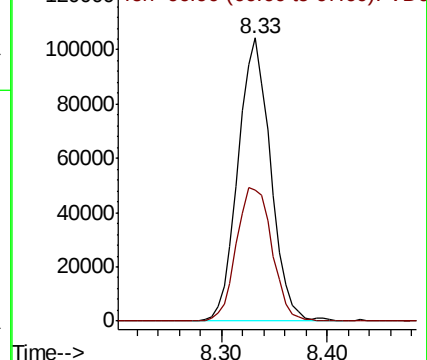
65 100

67 51.5 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: 8.87 min Scan# 1181

Delta R.T. 0.01 min

Lab File: VD067092.D

Acq: 05 Oct 2020 19:09

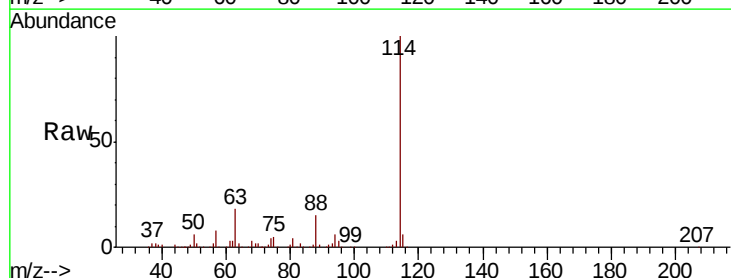
Tgt Ion: 114 Resp: 788828

Ion Ratio Lower Upper

114 100

63 17.8 0.0 38.4

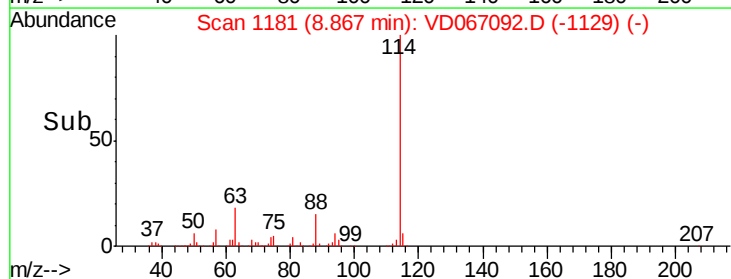
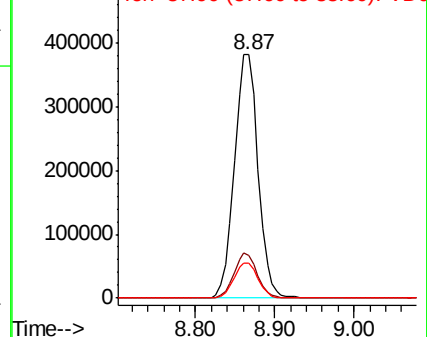
88 14.6 0.0 31.2

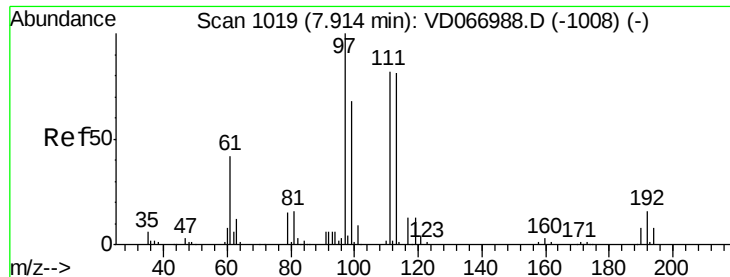


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

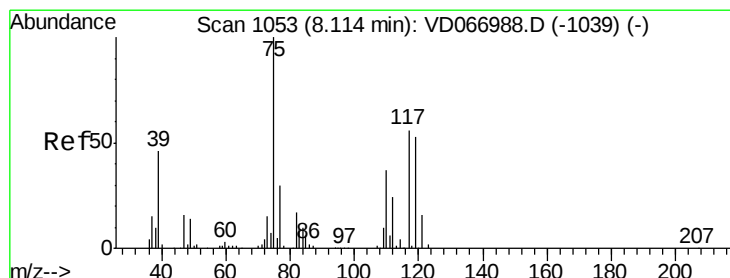
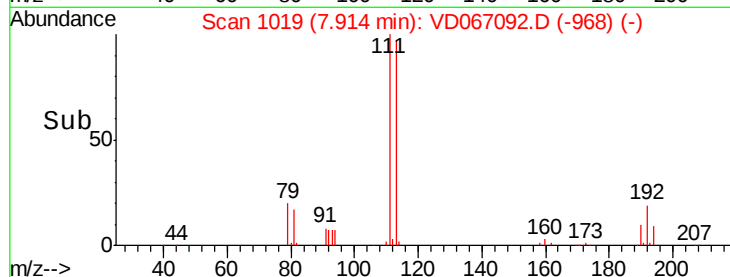
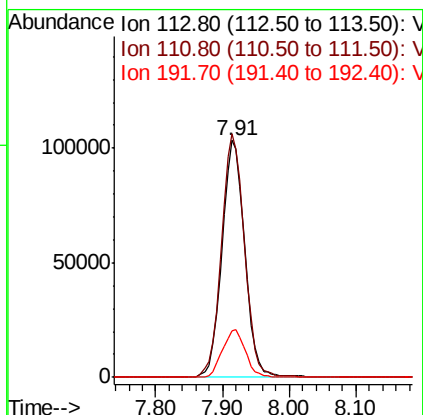
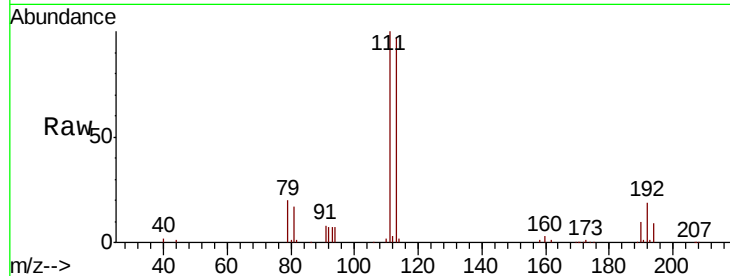




#35
 Dibromofluoromethane
 Concen: 48.404 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD067092.D
 Acq: 05 Oct 2020 19:09

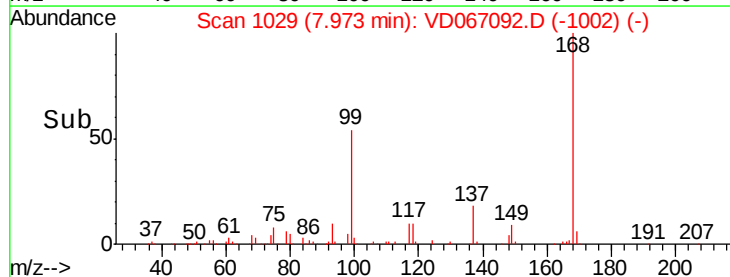
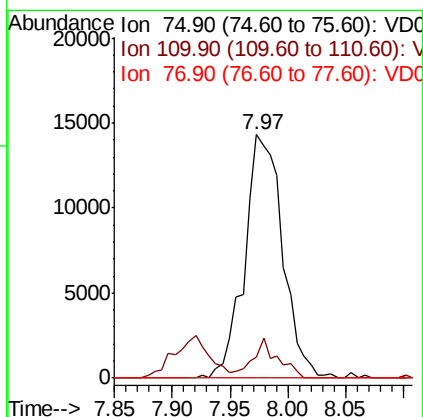
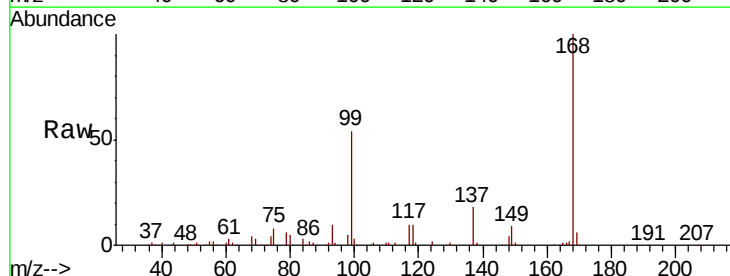
Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B24-100120-DP

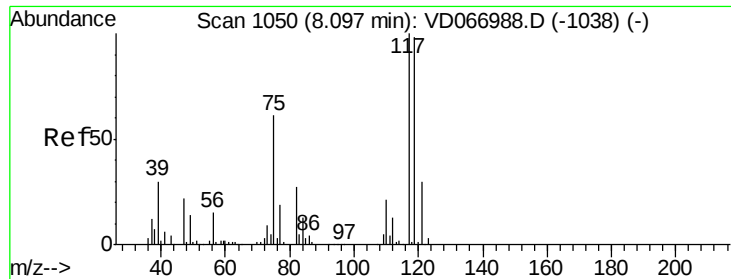
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	83.0	124.4
192	20.2	15.5	23.3



#36
 1,1-Dichloropropene
 Concen: 4.480 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD067092.D
 Acq: 05 Oct 2020 19:09

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	18.4	55.0#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 5.847 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067092.D

Acq: 05 Oct 2020 19:09

Instrument :

MSVOA_D

ClientSampleId :

PAV-B24-100120-DP

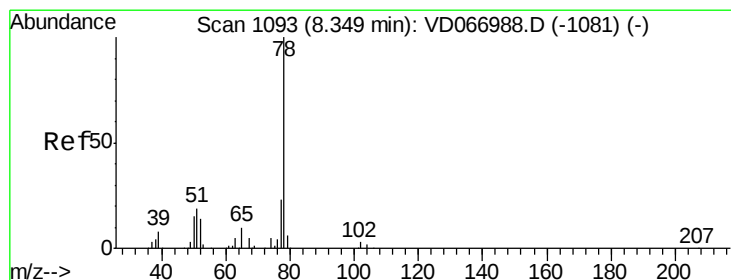
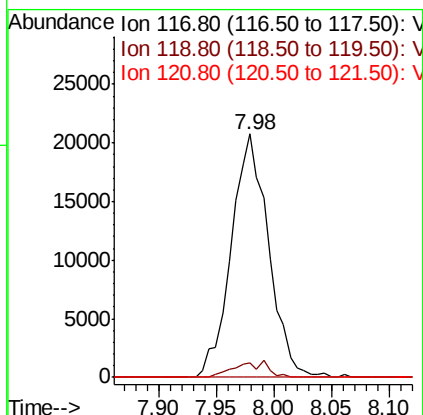
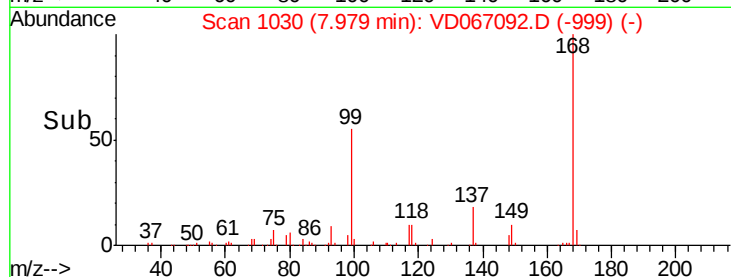
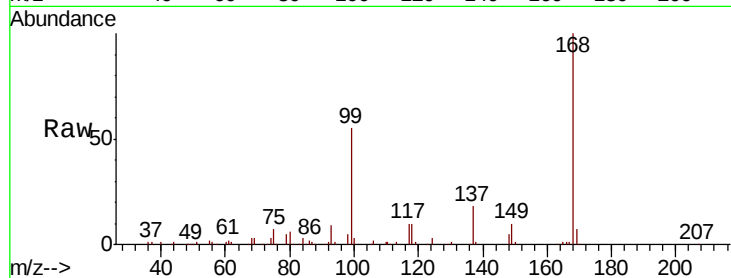
Tot Ion:117 Resp: 46520

Ion Ratio Lower Upper

117 100

119 5.7 78.7 118.1#

121 0.0 24.2 36.2#



#40

Benzene

Concen: 1.342 ug/l

RT: 8.36 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VD067092.D

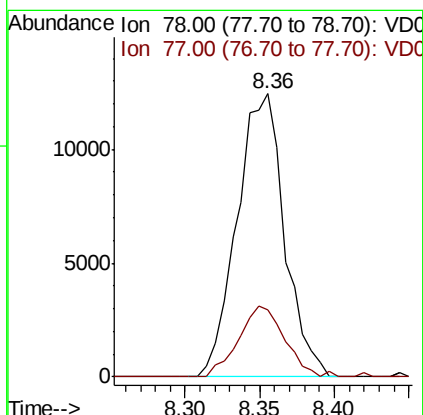
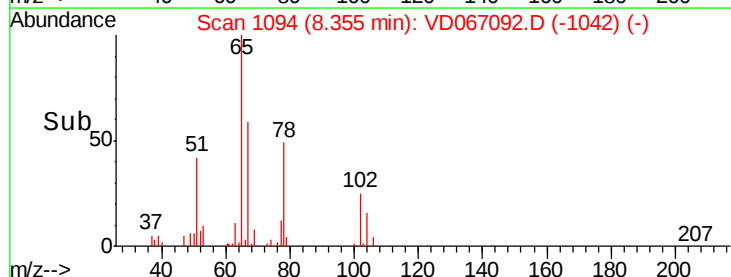
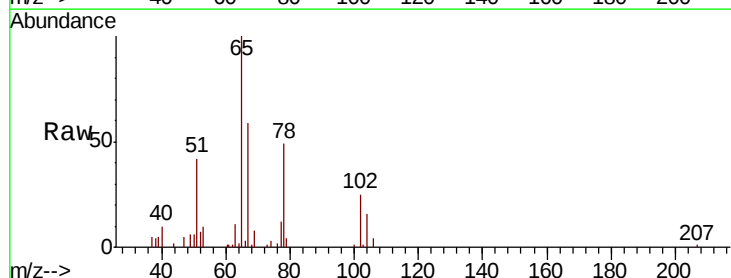
Acq: 05 Oct 2020 19:09

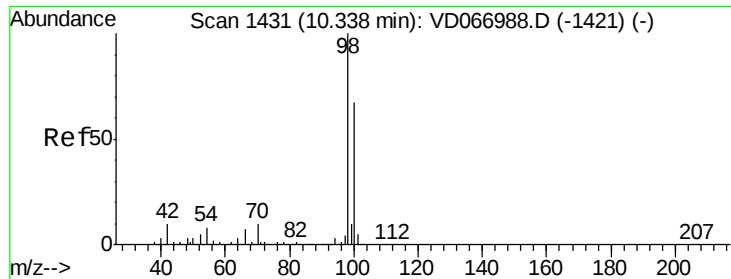
Tgt Ion: 78 Resp: 27399

Ion Ratio Lower Upper

78 100

77 23.9 18.4 27.6





#50

Toluene-d8

Concen: 48.556 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067092.D

Acq: 05 Oct 2020 19:09

Instrument :

MSVOA_D

ClientSampleId :

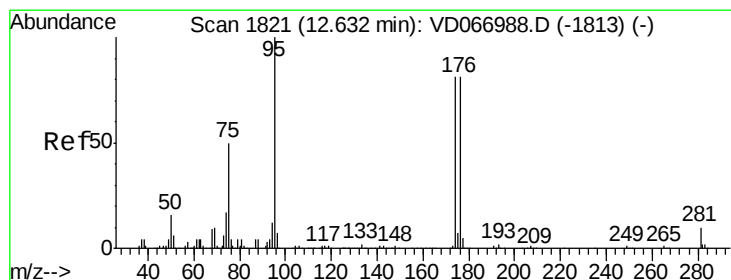
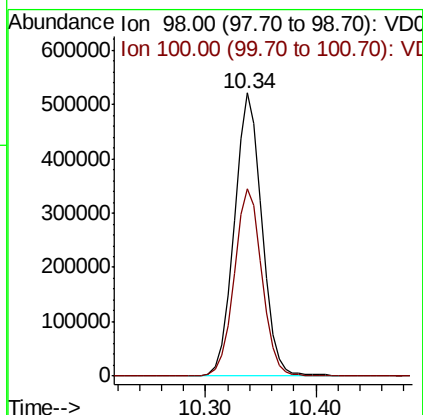
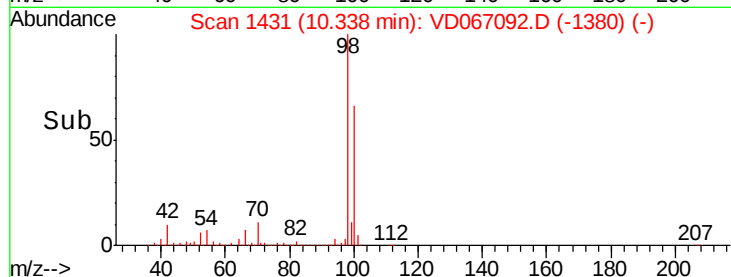
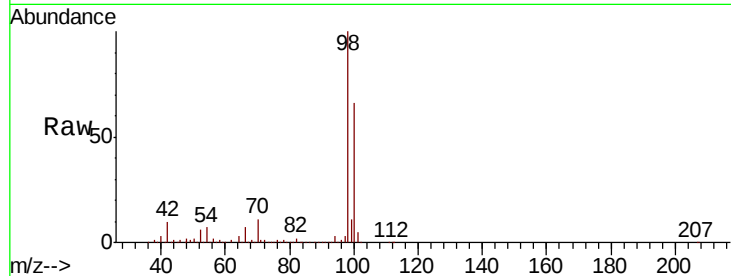
PAV-B24-100120-DP

Tot Ion: 98 Resp: 913724

Ion Ratio Lower Upper

98 100

100 66.6 52.8 79.2



#62

4-Bromofluorobenzene

Concen: 48.411 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067092.D

Acq: 05 Oct 2020 19:09

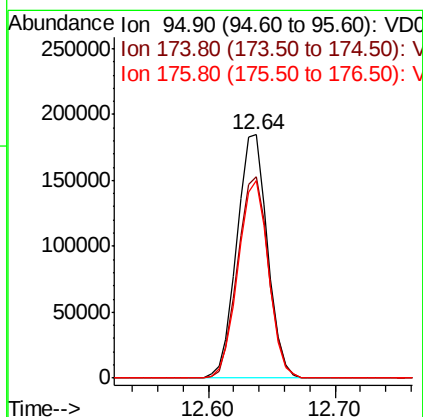
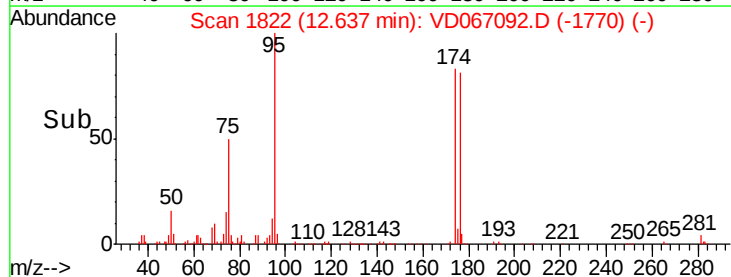
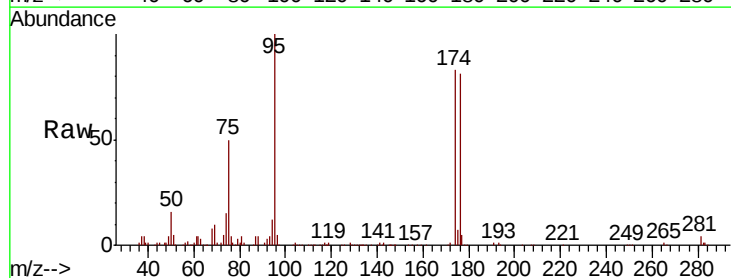
Tgt Ion: 95 Resp: 309262

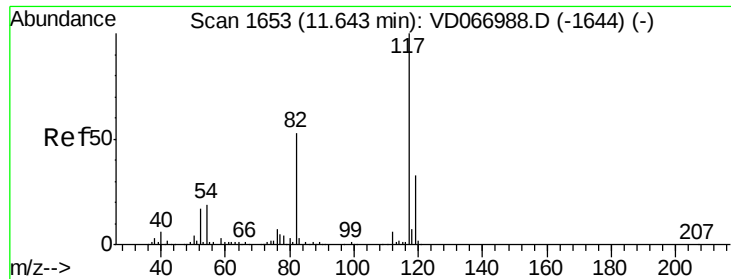
Ion Ratio Lower Upper

95 100

174 83.5 0.0 167.6

176 80.5 0.0 162.4

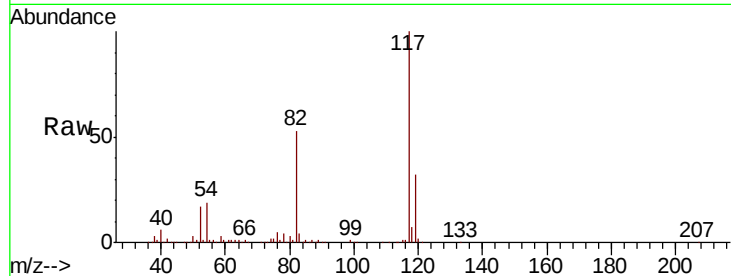




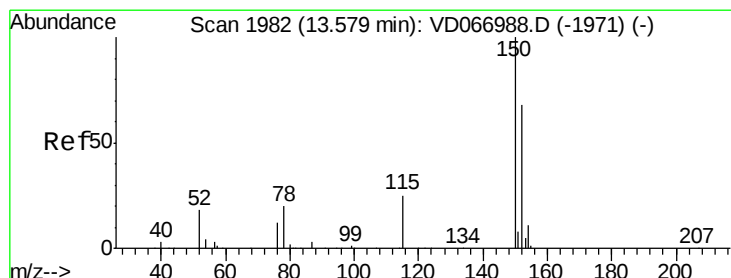
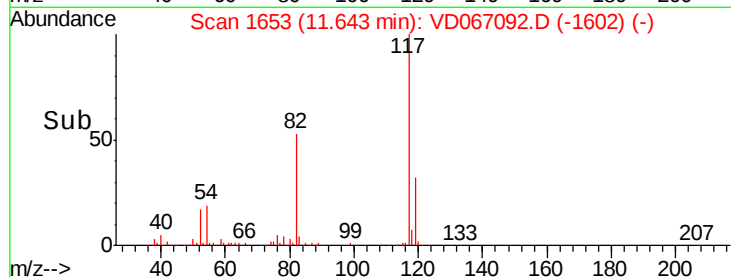
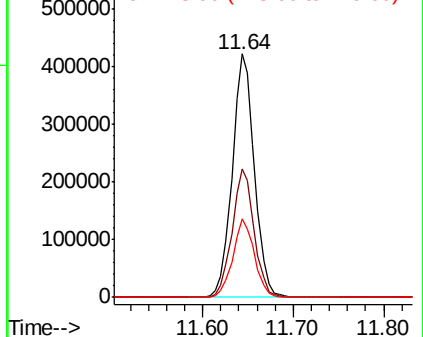
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067092.D
Acq: 05 Oct 2020 19:09

Instrument :
MSVOA_D
ClientSampleId :
PAV-B24-100120-DP

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.6	63.8
119	32.3	26.3	39.5

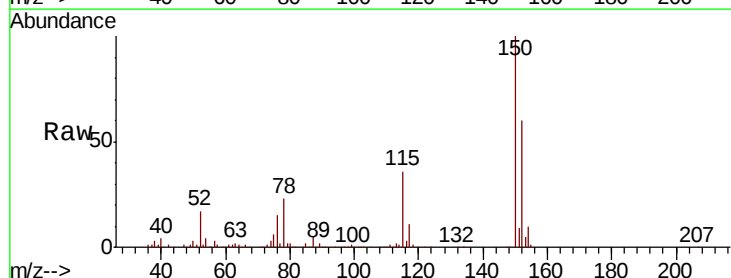


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VD
Ion 118.90 (118.60 to 119.60): V

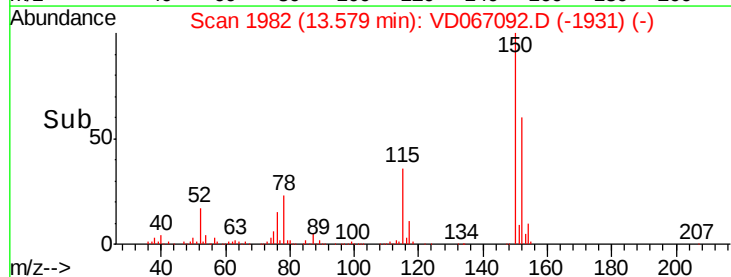
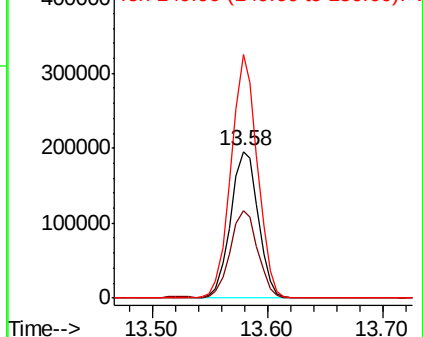


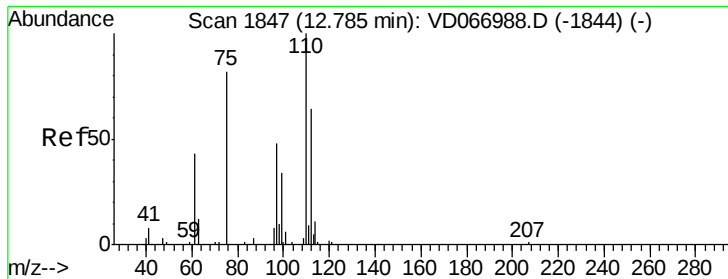
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD067092.D
Acq: 05 Oct 2020 19:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.0	29.6	88.8
150	157.8	0.0	344.8



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: 54.504 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD067092.D

Acq: 05 Oct 2020 19:09

Instrument :

MSVOA_D

ClientSampleId :

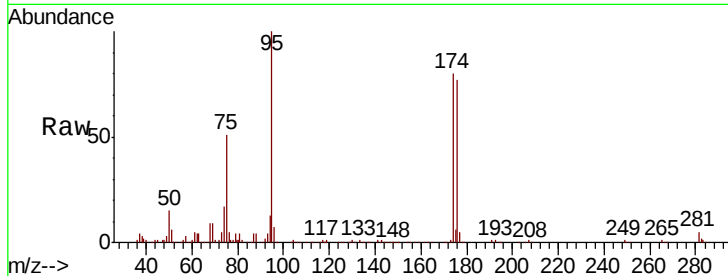
PAV-B24-100120-DP

Tot Ion: 75 Resp: 154248

Ion Ratio Lower Upper

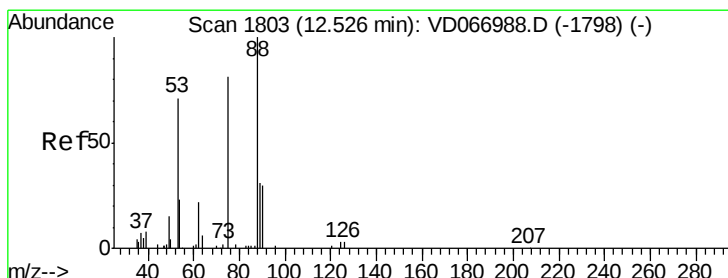
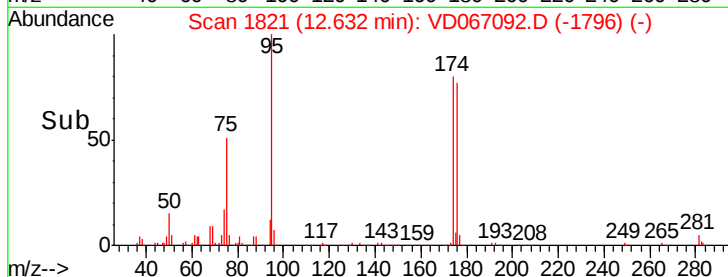
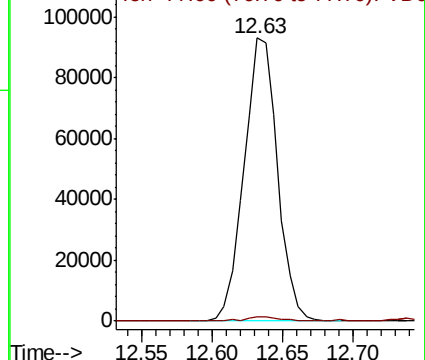
75 100

77 1.5 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: 135.887 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.11 min

Lab File: VD067092.D

Acq: 05 Oct 2020 19:09

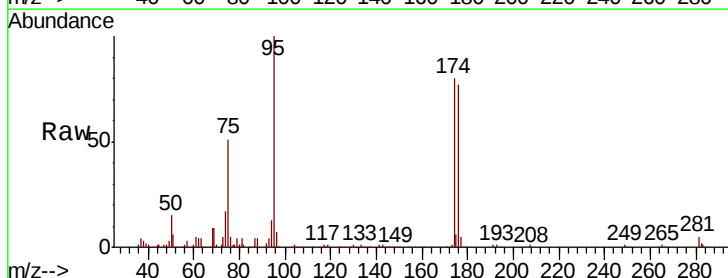
Tgt Ion: 75 Resp: 154248

Ion Ratio Lower Upper

75 100

53 0.1 73.8 110.6#

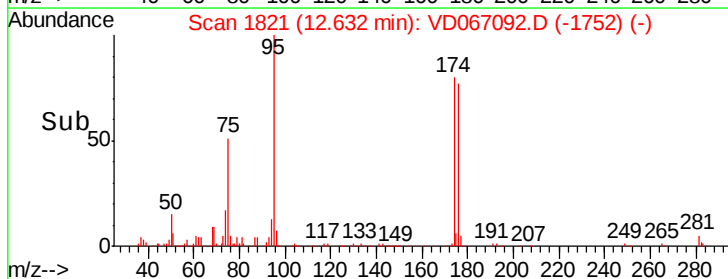
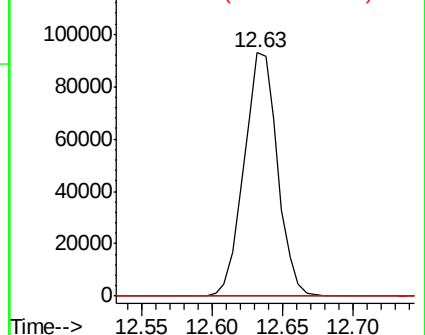
89 0.0 38.9 58.3#

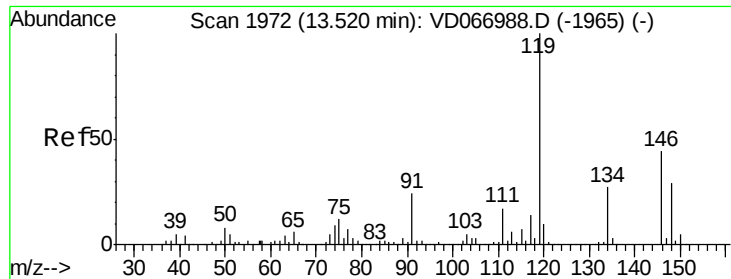


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#86
 p-Isopropyltoluene
 Concen: 1.747 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD067092.D
 Acq: 05 Oct 2020 19:09

Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B24-100120-DP

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.1	39.1
91	24.1	11.7	35.1

