

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD081720\
 Data File : VD066256.D
 Acq On : 17 Aug 2020 14:28
 Operator : VA/SY
 Sample : L3662-09RE
 Misc : 6.04G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 N48765

Quant Time: Aug 17 14:51:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:49:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	340476	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	528143	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	623199	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	295250	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	127810	42.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.16%	
35) Dibromofluoromethane	7.91	113	150494	44.98	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.96%	
50) Toluene-d8	10.34	98	623528	50.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.00%	
62) 4-Bromofluorobenzene	12.63	95	297557	66.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	133.72%	

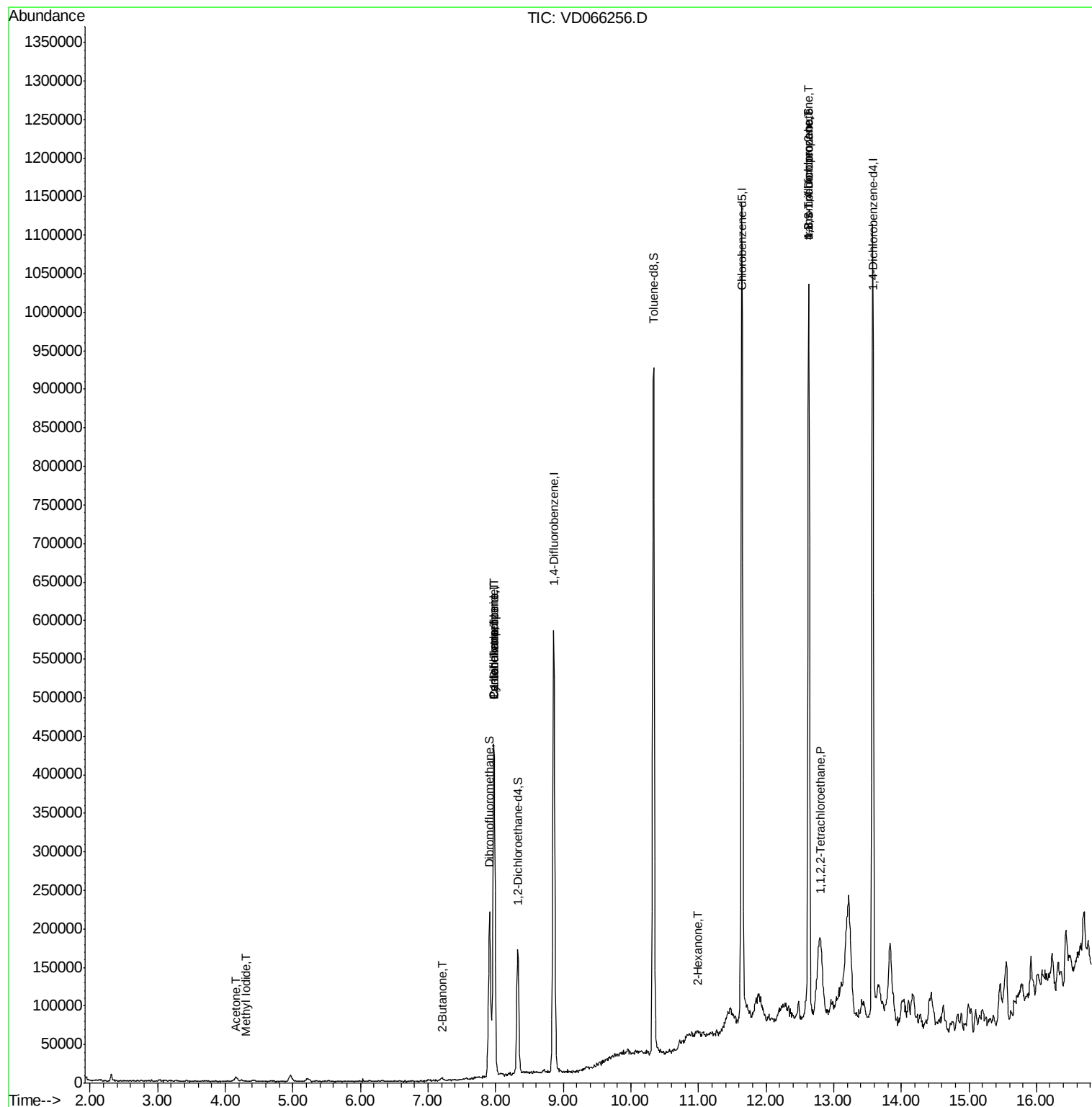
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	4.30	142	177	6.764	ug/l #	74
11) Tert butyl alcohol	5.22	59	7027	Below Cal		96
16) Acetone	4.16	43	9571	16.606	ug/l #	85
20) Methylene Chloride	4.97	84	6667	Below Cal		90
25) 2-Butanone	7.22	43	1978	2.333	ug/l #	47
31) Cyclohexane	7.98	56	7420	1.394	ug/l #	17
36) 1,1-Dichloropropene	7.97	75	23491	4.733	ug/l #	53
38) Carbon Tetrachloride	7.98	117	32014	5.784	ug/l #	15
59) 2-Hexanone	11.00	43	1462	1.047	ug/l	68
75) 1,1,2,2-Tetrachloroethane	12.81	83	30217	8.991	ug/l #	28
76) 1,2,3-Trichloropropane	12.63	75	152565	61.963	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	152565	136.974	ug/l #	13

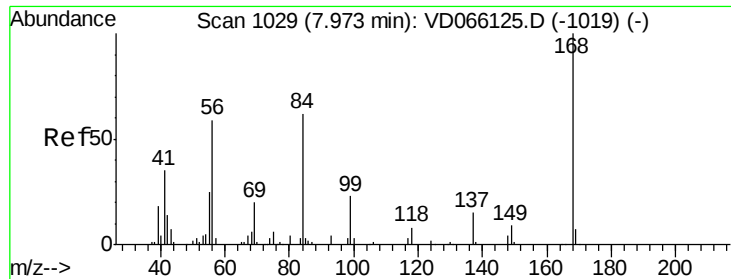
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VD066256.D

Acq: 17 Aug 2020 14:28

Instrument :

MSVOA_D

ClientSampleId :

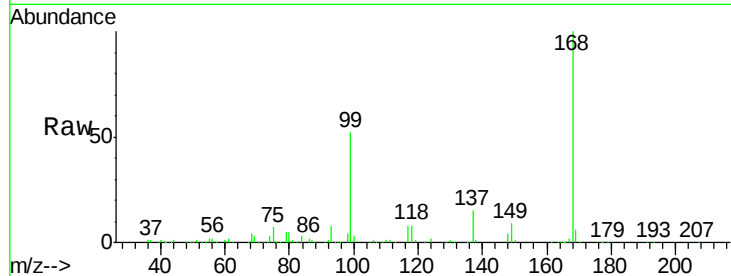
N48765

Tgt Ion:168 Resp: 340476

Ion Ratio Lower Upper

168 100

99 52.0 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.97

150000

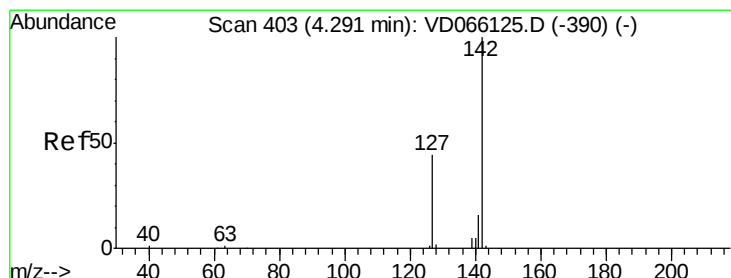
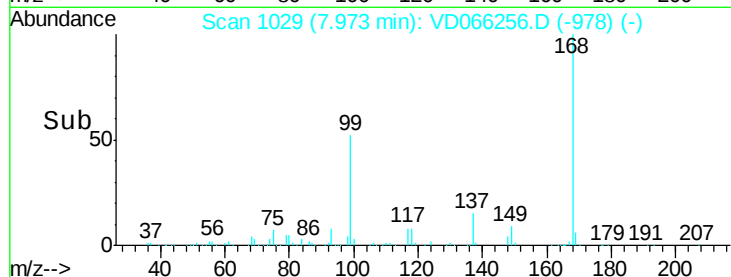
100000

50000

0

Time-->

7.90 8.00 8.10



#10

Methyl Iodide

Concen: 6.764 ug/l

RT: 4.30 min Scan# 405

Delta R.T. 0.01 min

Lab File: VD066256.D

Acq: 17 Aug 2020 14:28

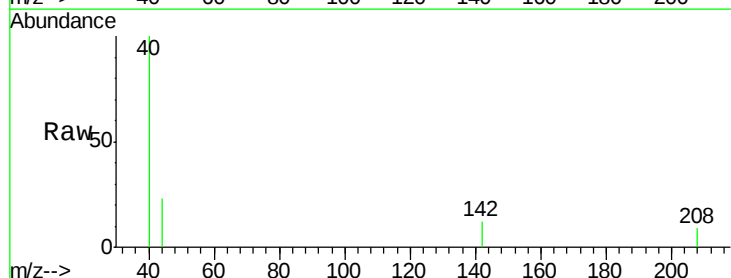
Tgt Ion:142 Resp: 177

Ion Ratio Lower Upper

142 100

127 31.1 36.2 54.4#

141 0.0 12.6 18.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.30

300

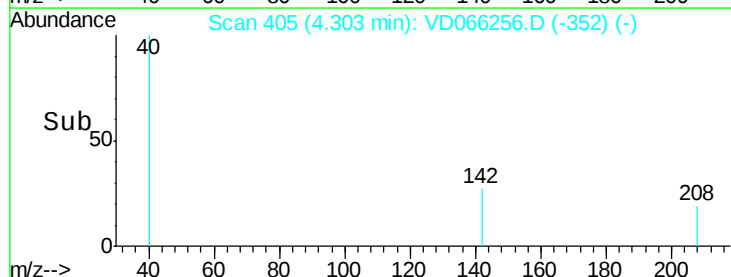
200

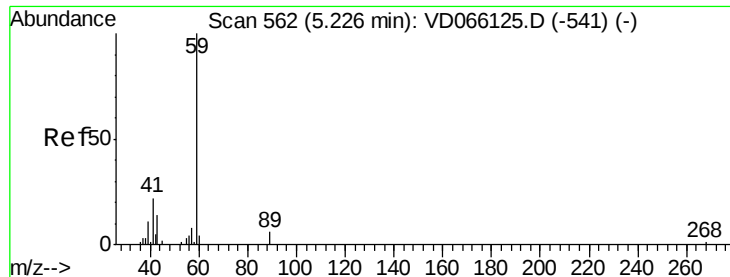
100

0

Time-->

4.28 4.30 4.32



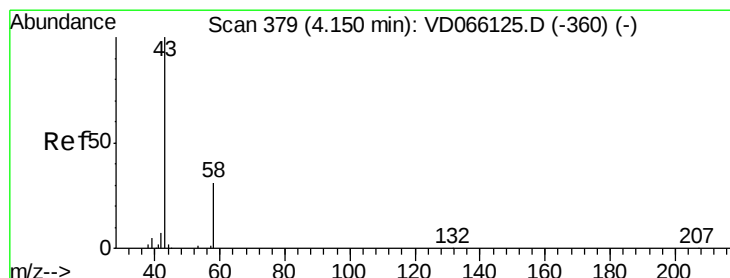
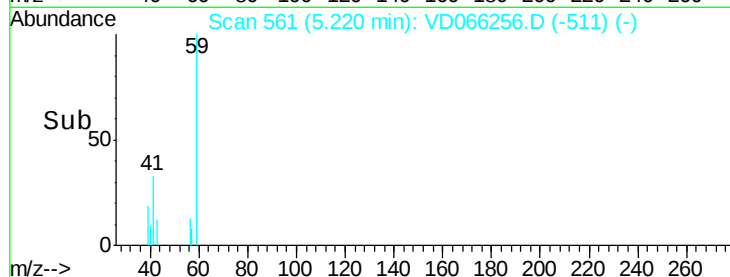
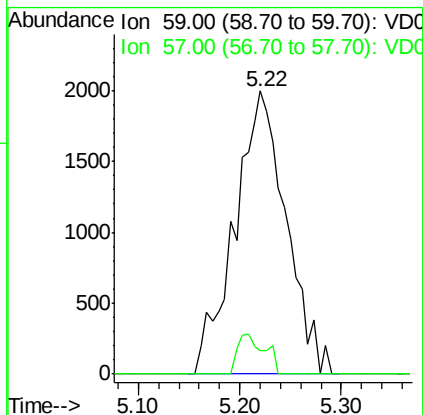
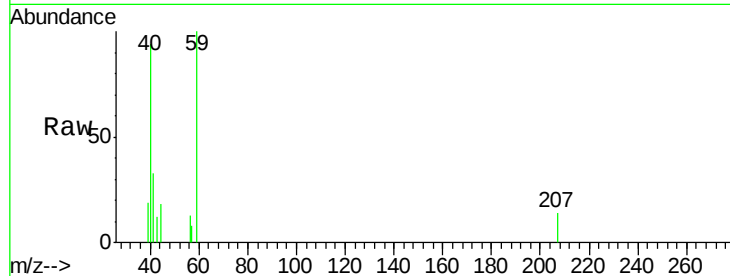


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.22 min Scan# 561
 Delta R.T. -0.01 min
 Lab File: VD066256.D
 Acq: 17 Aug 2020 14:28

Instrument :
 MSVOA_D
 ClientSampleId :
 N48765

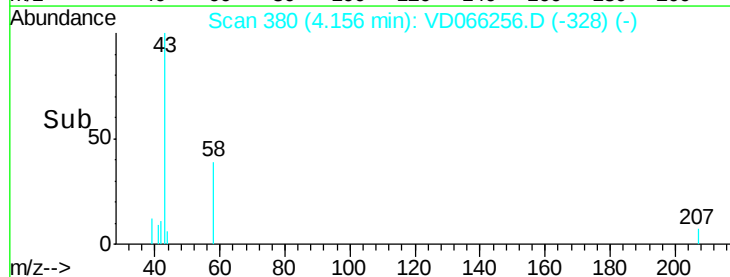
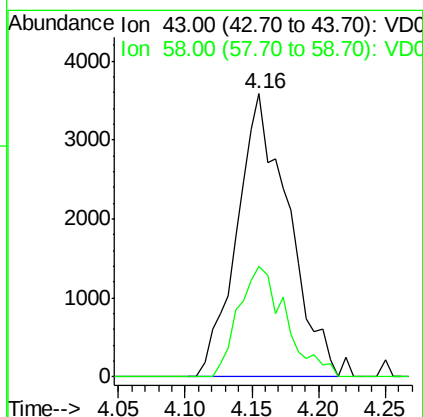
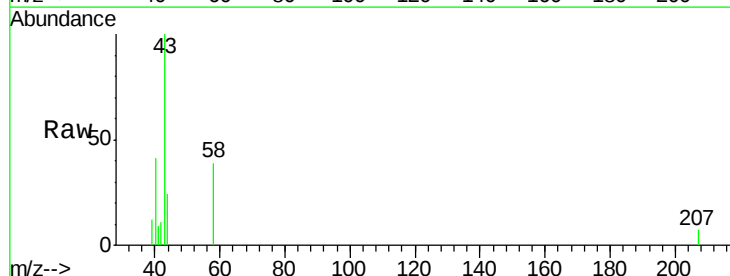
Tgt Ion: 59 Resp: 7027
 Ion Ratio Lower Upper
 59 100
 57 7.4 7.0 10.4

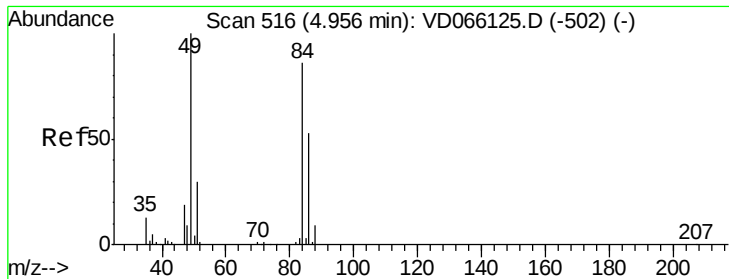


#16

Acetone
 Concen: 16.606 ug/l
 RT: 4.16 min Scan# 380
 Delta R.T. 0.01 min
 Lab File: VD066256.D
 Acq: 17 Aug 2020 14:28

Tgt Ion: 43 Resp: 9571
 Ion Ratio Lower Upper
 43 100
 58 39.2 24.7 37.1#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD066256.D

Acq: 17 Aug 2020 14:28

Instrument :

MSVOA_D

ClientSampleId :

N48765

Tgt Ion: 84 Resp: 6667

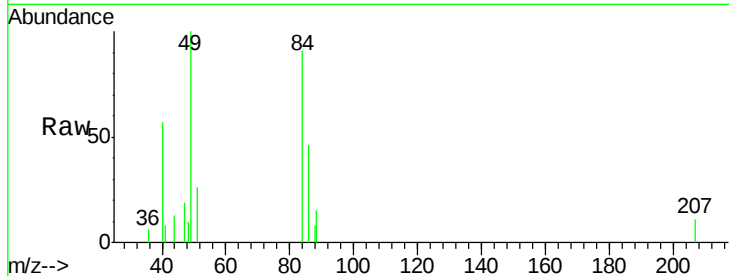
Ion Ratio Lower Upper

84 100

49 109.5 93.5 140.3

51 28.5 28.2 42.4

86 50.4 49.5 74.3

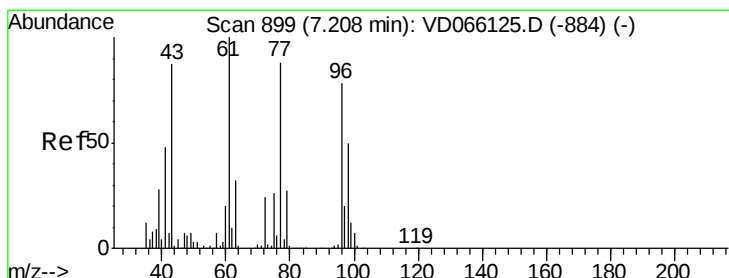
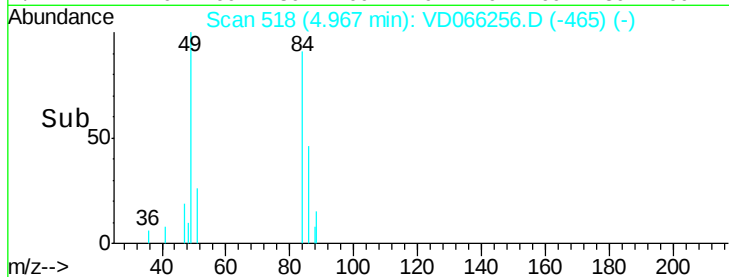
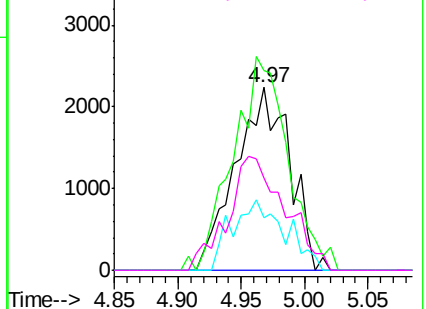


Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#25

2-Butanone

Concen: 2.333 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD066256.D

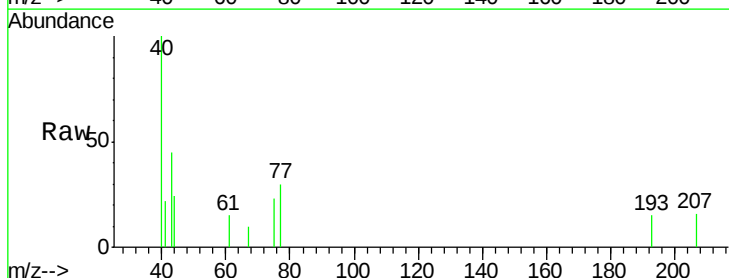
Acq: 17 Aug 2020 14:28

Tgt Ion: 43 Resp: 1978

Ion Ratio Lower Upper

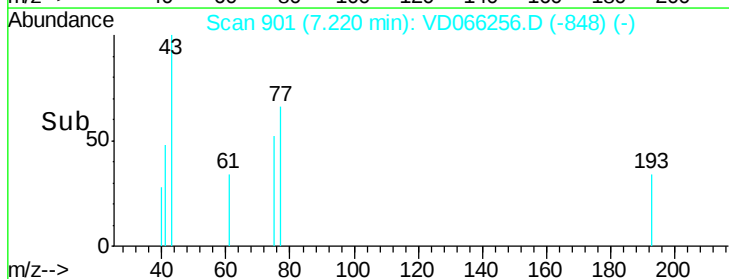
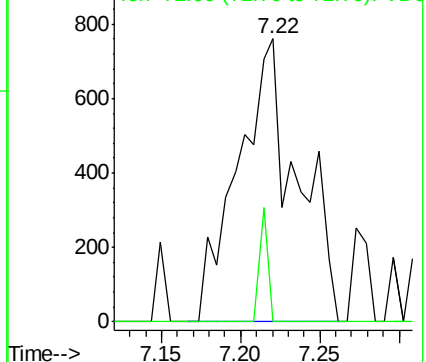
43 100

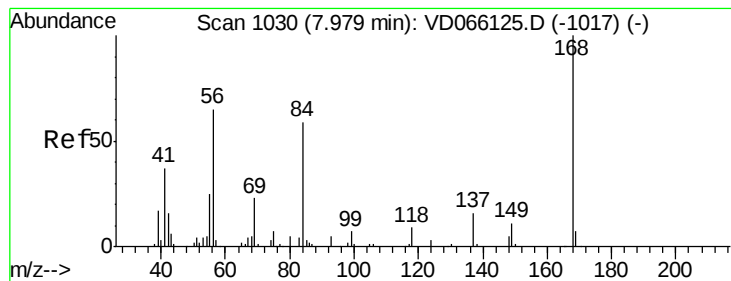
72 0.0 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC





#31

Cyclohexane

Concen: 1.394 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066256.D

Acq: 17 Aug 2020 14:28

Instrument :

MSVOA_D

ClientSampleId :

N48765

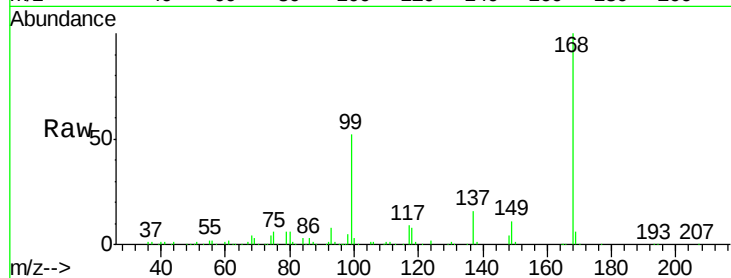
Tgt Ion: 56 Resp: 7420

Ion Ratio Lower Upper

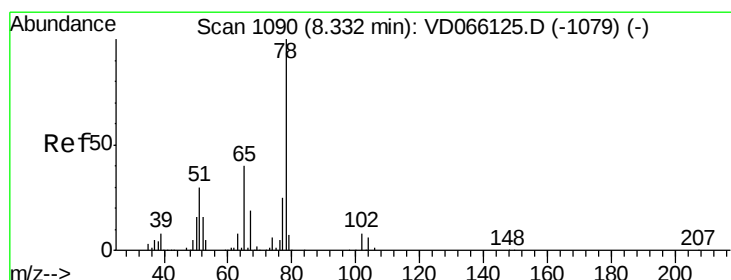
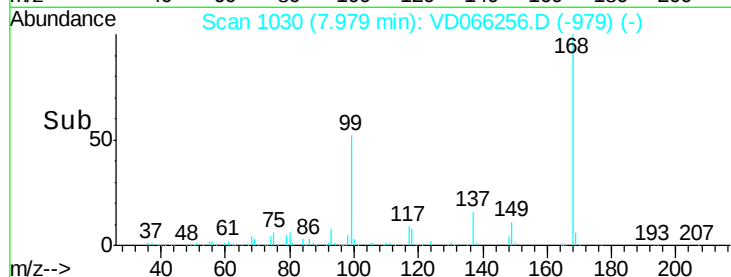
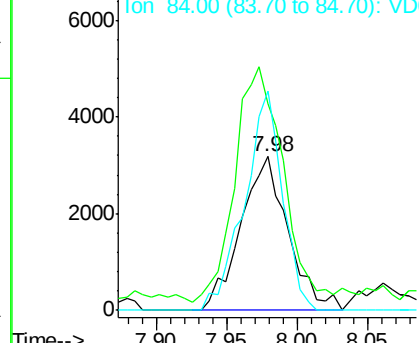
56 100

69 128.8 28.8 43.2#

84 142.5 73.0 109.6#



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: 42.077 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066256.D

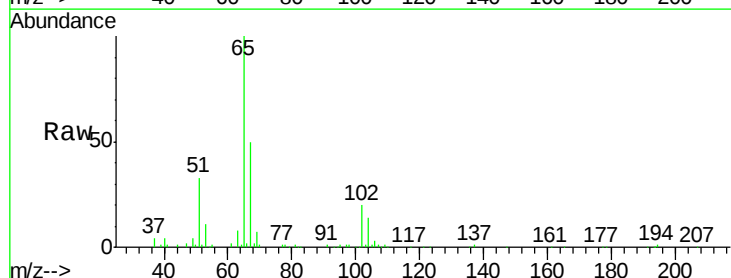
Acq: 17 Aug 2020 14:28

Tgt Ion: 65 Resp: 127810

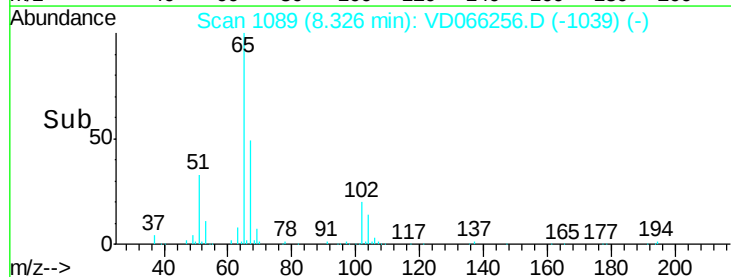
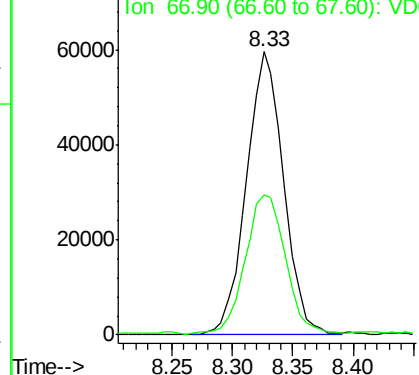
Ion Ratio Lower Upper

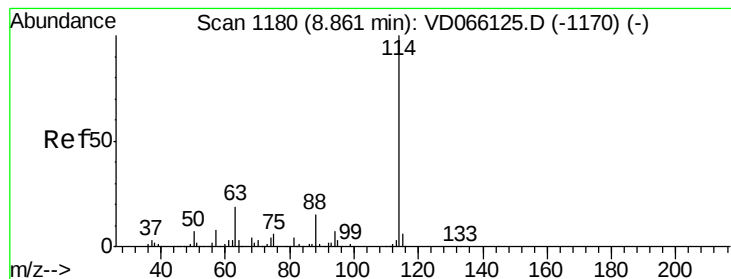
65 100

67 53.1 0.0 104.6



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: VD066256.D

Acq: 17 Aug 2020 14:28

Instrument :

MSVOA_D

ClientSampleId :

N48765

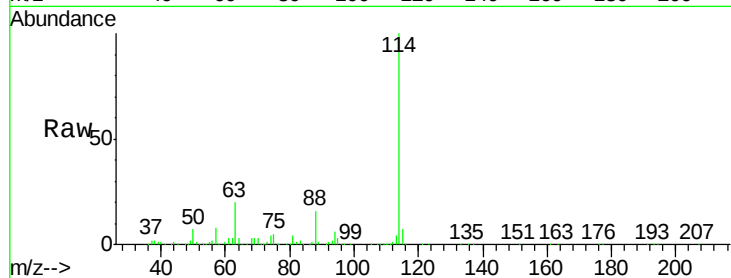
Tgt Ion:114 Resp: 528143

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.6

88 15.5 0.0 30.0



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

300000

200000

100000

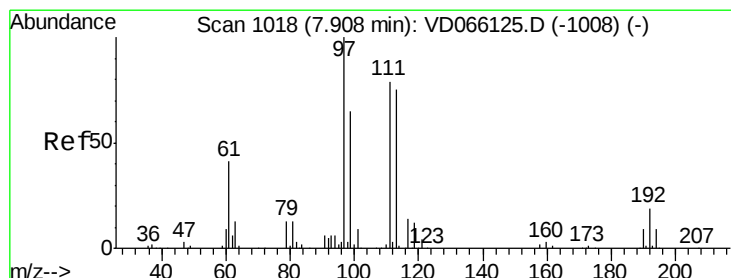
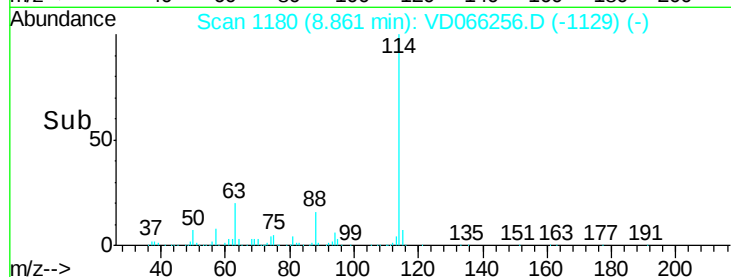
0

8.86

8.80

8.90

Time-->



#35

Dibromofluoromethane

Concen: 44.981 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VD066256.D

Acq: 17 Aug 2020 14:28

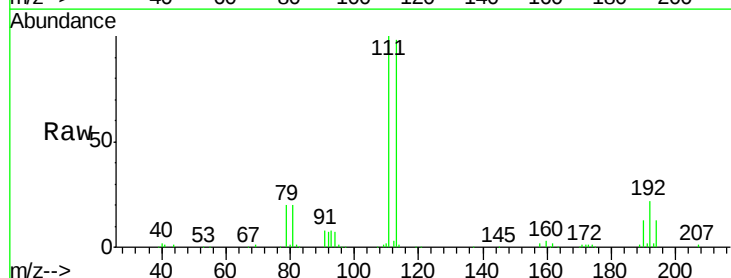
Tgt Ion:113 Resp: 150494

Ion Ratio Lower Upper

113 100

111 103.3 80.7 121.1

192 22.9 18.4 27.6



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

80000

60000

40000

20000

0

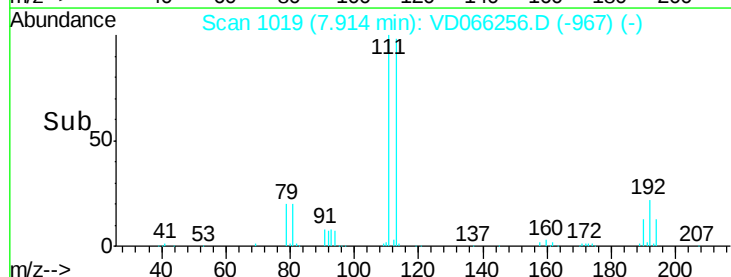
7.91

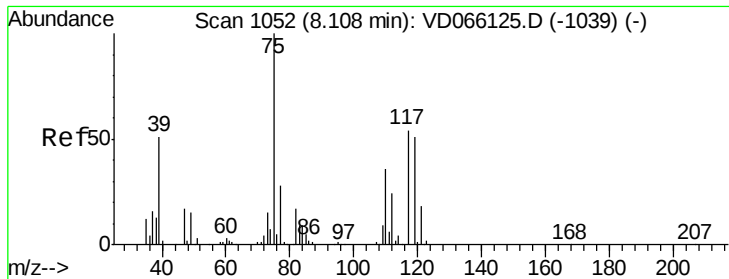
7.80

7.90

8.00

Time-->





#36

1,1-Dichloropropene

Concen: 4.733 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066256.D

Acq: 17 Aug 2020 14:28

Instrument :

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N48765

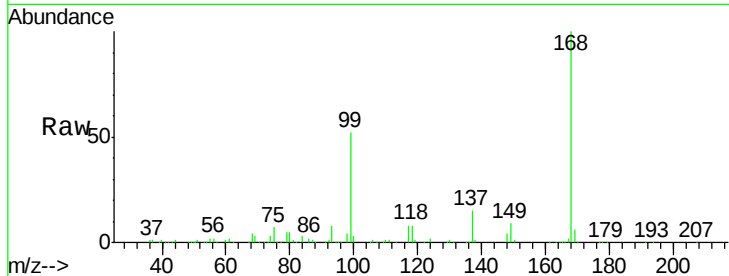
Tgt Ion: 75 Resp: 23491

Ion Ratio Lower Upper

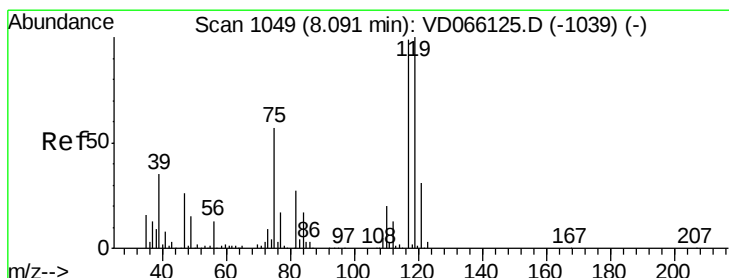
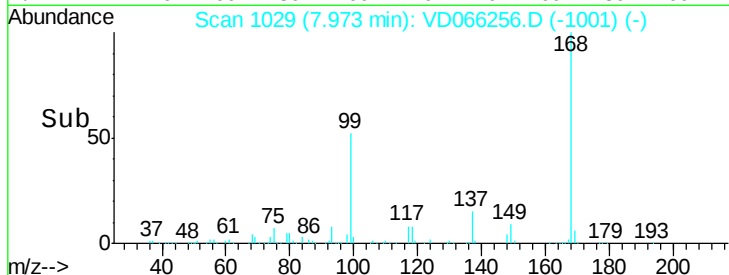
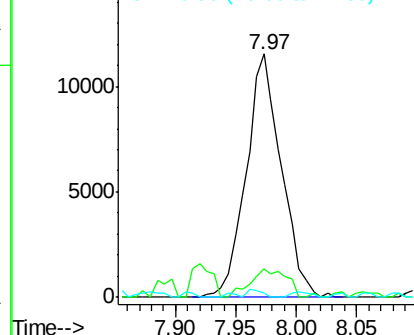
75 100

110 12.1 18.8 56.3#

77 1.9 24.2 36.2#



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



#38

Carbon Tetrachloride

Concen: 5.784 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066256.D

Acq: 17 Aug 2020 14:28

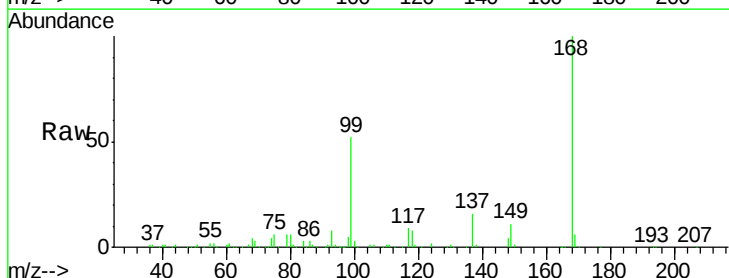
Tgt Ion: 117 Resp: 32014

Ion Ratio Lower Upper

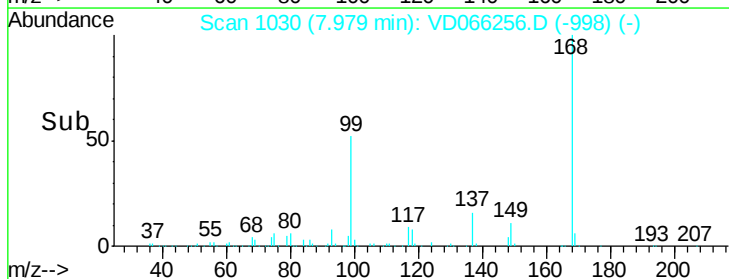
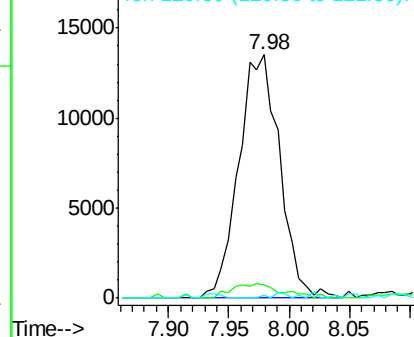
117 100

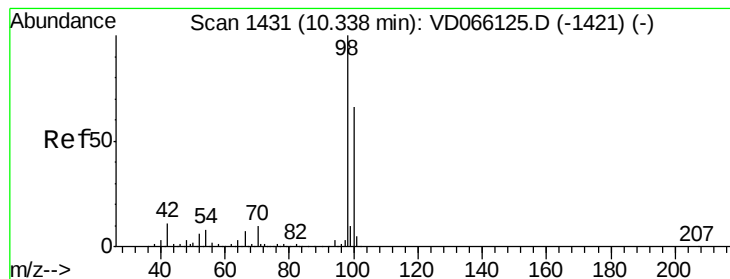
119 5.4 81.0 121.4#

121 1.3 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): VDC
Ion 118.80 (118.50 to 119.50): VDC
Ion 120.80 (120.50 to 121.50): VDC





#50

Toluene-d8

Concen: 50.502 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066256.D

Acq: 17 Aug 2020 14:28

Instrument :

MSVOA_D

ClientSampleId :

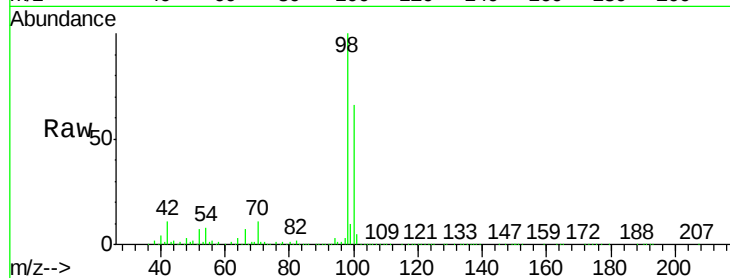
N48765

Tgt Ion: 98 Resp: 623528

Ion Ratio Lower Upper

98 100

100 66.9 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

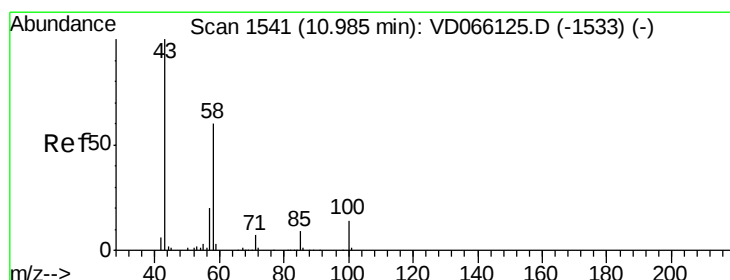
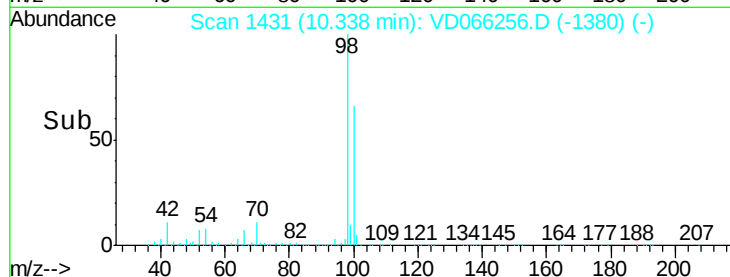
300000

200000

100000

0

Time--> 10.20 10.30 10.40 10.50



#59

2-Hexanone

Concen: 1.047 ug/l

RT: 11.00 min Scan# 1543

Delta R.T. 0.01 min

Lab File: VD066256.D

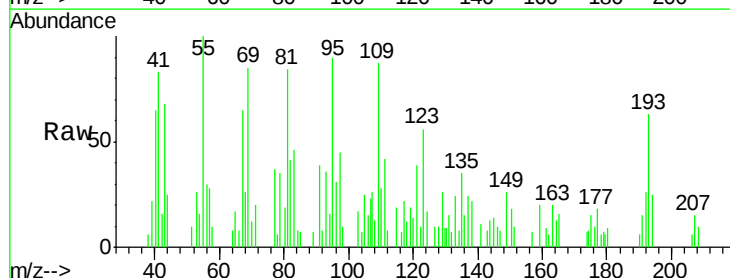
Acq: 17 Aug 2020 14:28

Tgt Ion: 43 Resp: 1462

Ion Ratio Lower Upper

43 100

58 32.0 27.8 83.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

11.00

2000

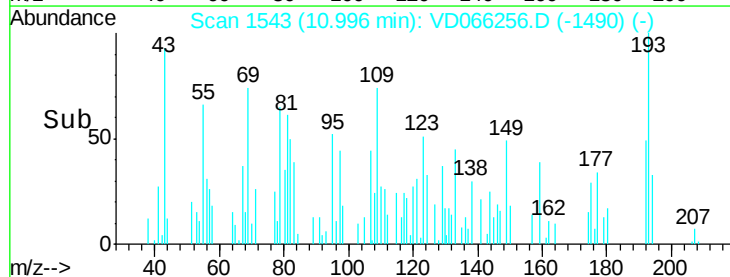
1500

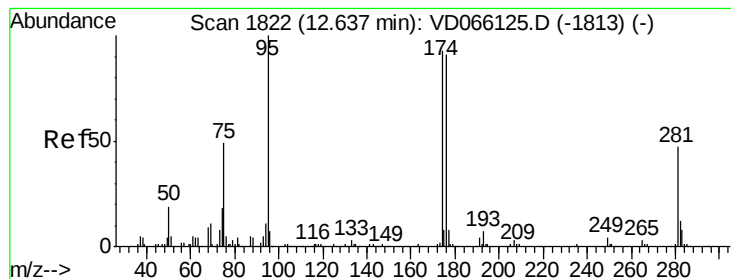
1000

500

0

Time--> 10.96 10.98 11.00 11.02





#62

4-Bromofluorobenzene

Concen: 66.860 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD066256.D

Acq: 17 Aug 2020 14:28

Instrument :

MSVOA_D

ClientSampleId :

N48765

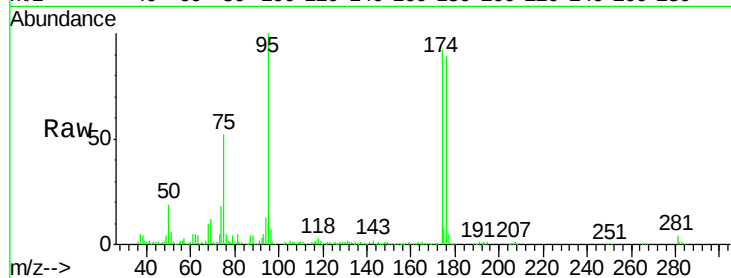
Tgt Ion: 95 Resp: 297557

Ion Ratio Lower Upper

95 100

174 95.5 0.0 180.8

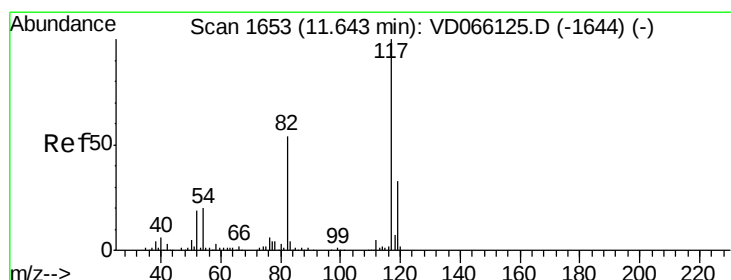
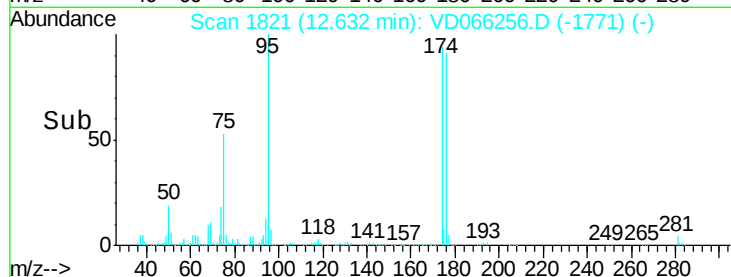
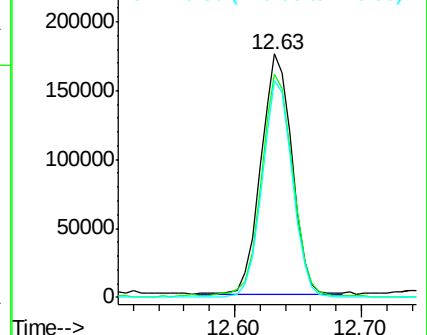
176 87.9 0.0 181.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD066256.D

Acq: 17 Aug 2020 14:28

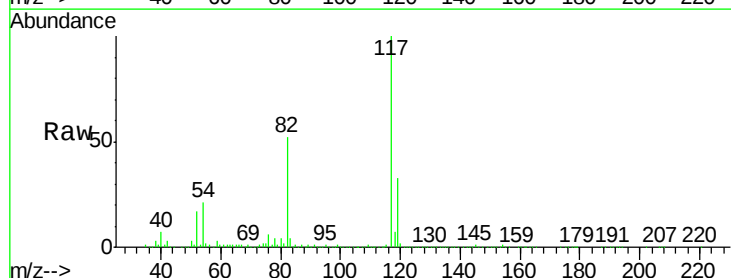
Tgt Ion: 117 Resp: 623199

Ion Ratio Lower Upper

117 100

82 52.3 43.0 64.4

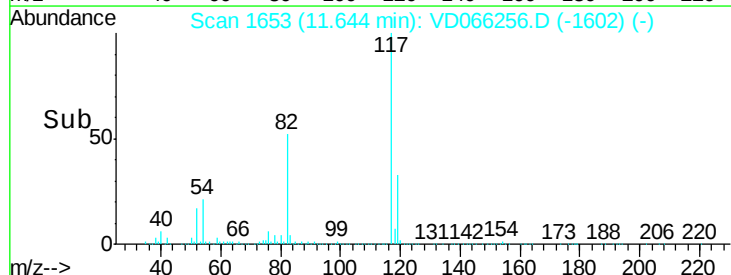
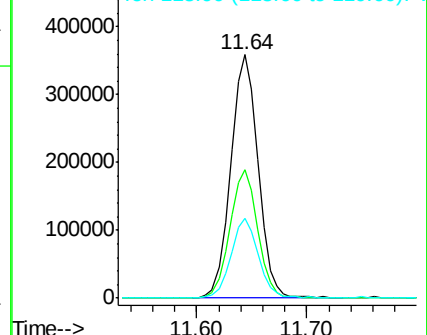
119 32.8 26.1 39.1

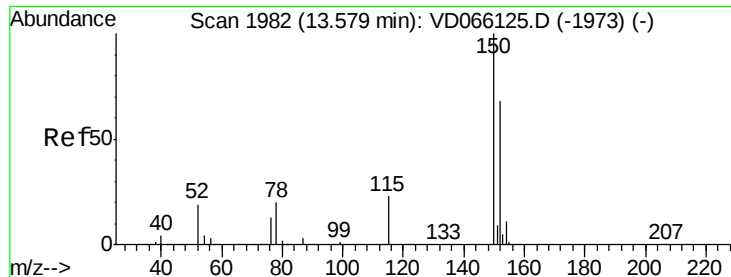


Abundance Ion 116.90 (116.60 to 117.60): V

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: VD066256.D

Acq: 17 Aug 2020 14:28

Instrument :

MSVOA_D

ClientSampleId :

N48765

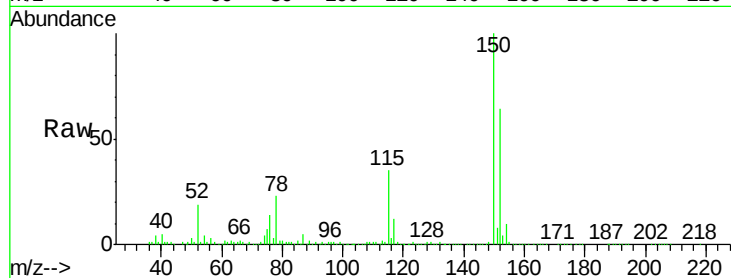
Tgt Ion: 152 Resp: 295250

Ion Ratio Lower Upper

152 100

115 56.2 28.0 83.9

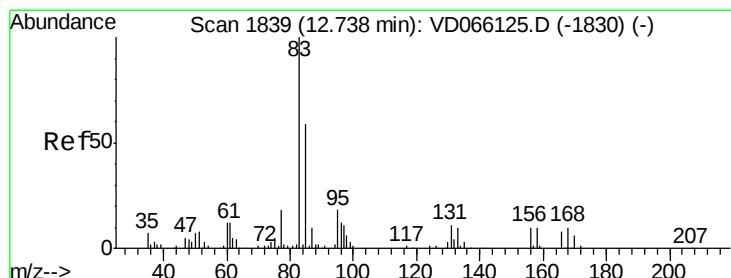
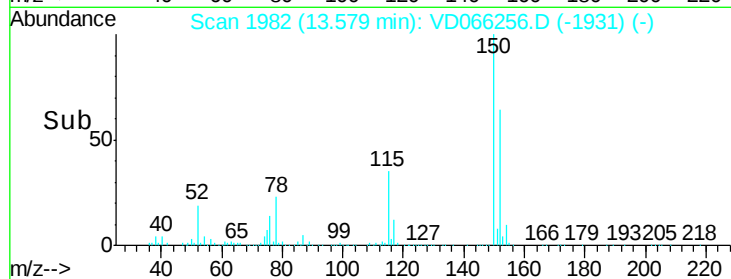
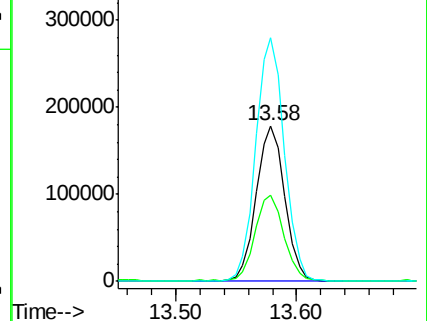
150 156.2 0.0 346.4



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



#75

1,1,2,2-Tetrachloroethane

Concen: 8.991 ug/l

RT: 12.81 min Scan# 1851

Delta R.T. 0.07 min

Lab File: VD066256.D

Acq: 17 Aug 2020 14:28

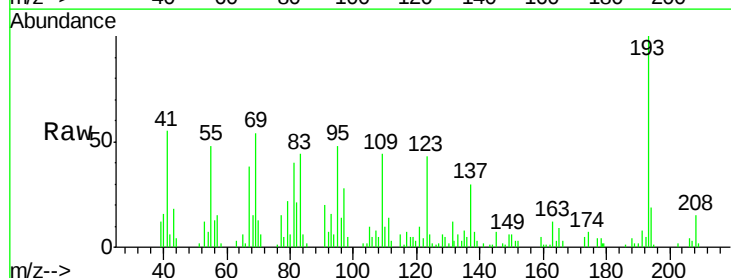
Tgt Ion: 83 Resp: 30217

Ion Ratio Lower Upper

83 100

131 2.0 6.2 18.6#

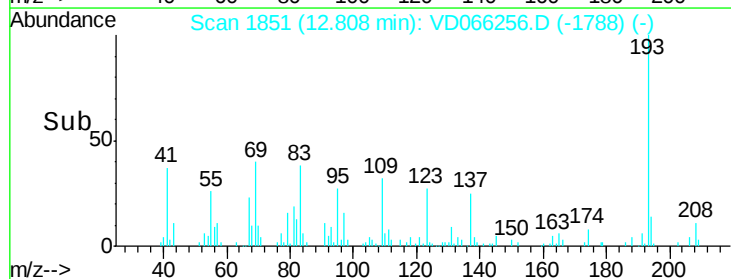
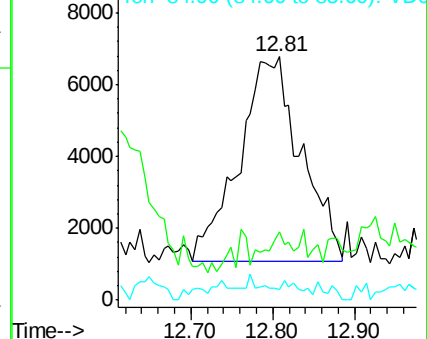
85 1.3 32.4 97.2#

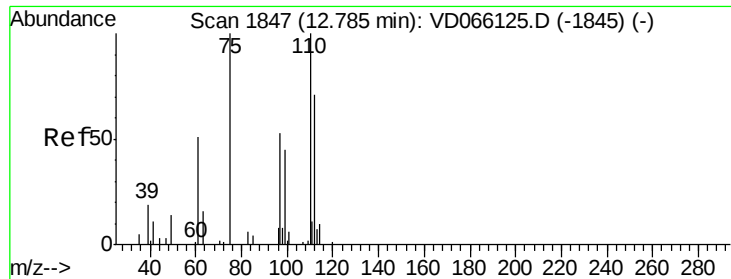


Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VDC





#76

1,2,3-Trichloropropane

Concen: 61.963 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066256.D

Acq: 17 Aug 2020 14:28

Instrument :

MSVOA_D

ClientSampleId :

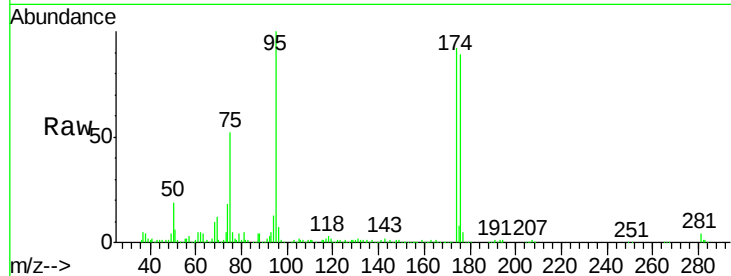
N48765

Tgt Ion: 75 Resp: 152565

Ion Ratio Lower Upper

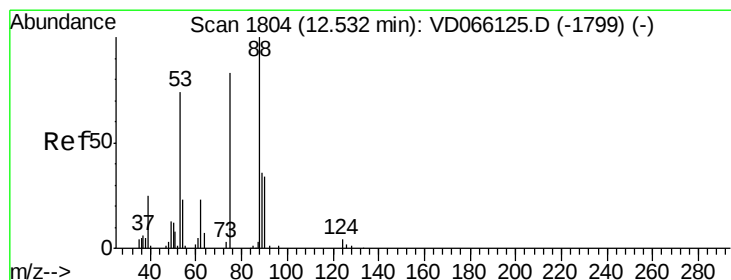
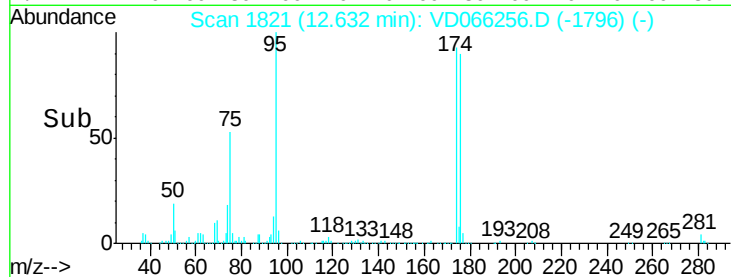
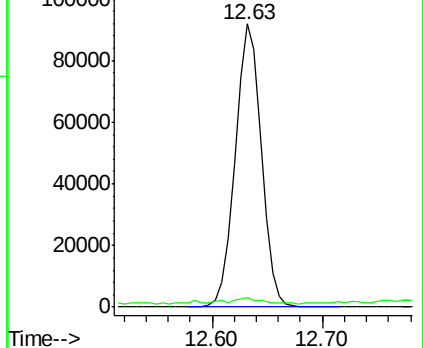
75 100

77 2.0 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: 136.974 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066256.D

Acq: 17 Aug 2020 14:28

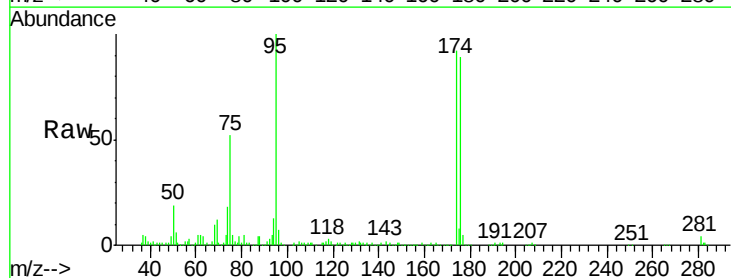
Tgt Ion: 75 Resp: 152565

Ion Ratio Lower Upper

75 100

53 0.4 73.4 110.2#

89 0.0 36.6 55.0#



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

