

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062419\
 Data File : VD062848.D
 Acq On : 24 Jun 2019 18:48
 Operator : VA/AP
 Sample : K3500-04
 Misc : 5.43g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-4(9-10)

Quant Time: Jun 25 05:05:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	611871	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	862193	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	589104	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	218047	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	418846	62.98	ug/l	0.00
Spiked Amount			Recovery	=	125.96%	
35) Dibromofluoromethane	6.93	113	407383	56.04	ug/l	0.00
Spiked Amount			Recovery	=	112.08%	
50) Toluene-d8	10.41	98	715034	45.19	ug/l	0.00
Spiked Amount			Recovery	=	90.38%	
62) 4-Bromofluorobenzene	13.55	95	294247	40.90	ug/l	0.00
Spiked Amount			Recovery	=	81.80%	

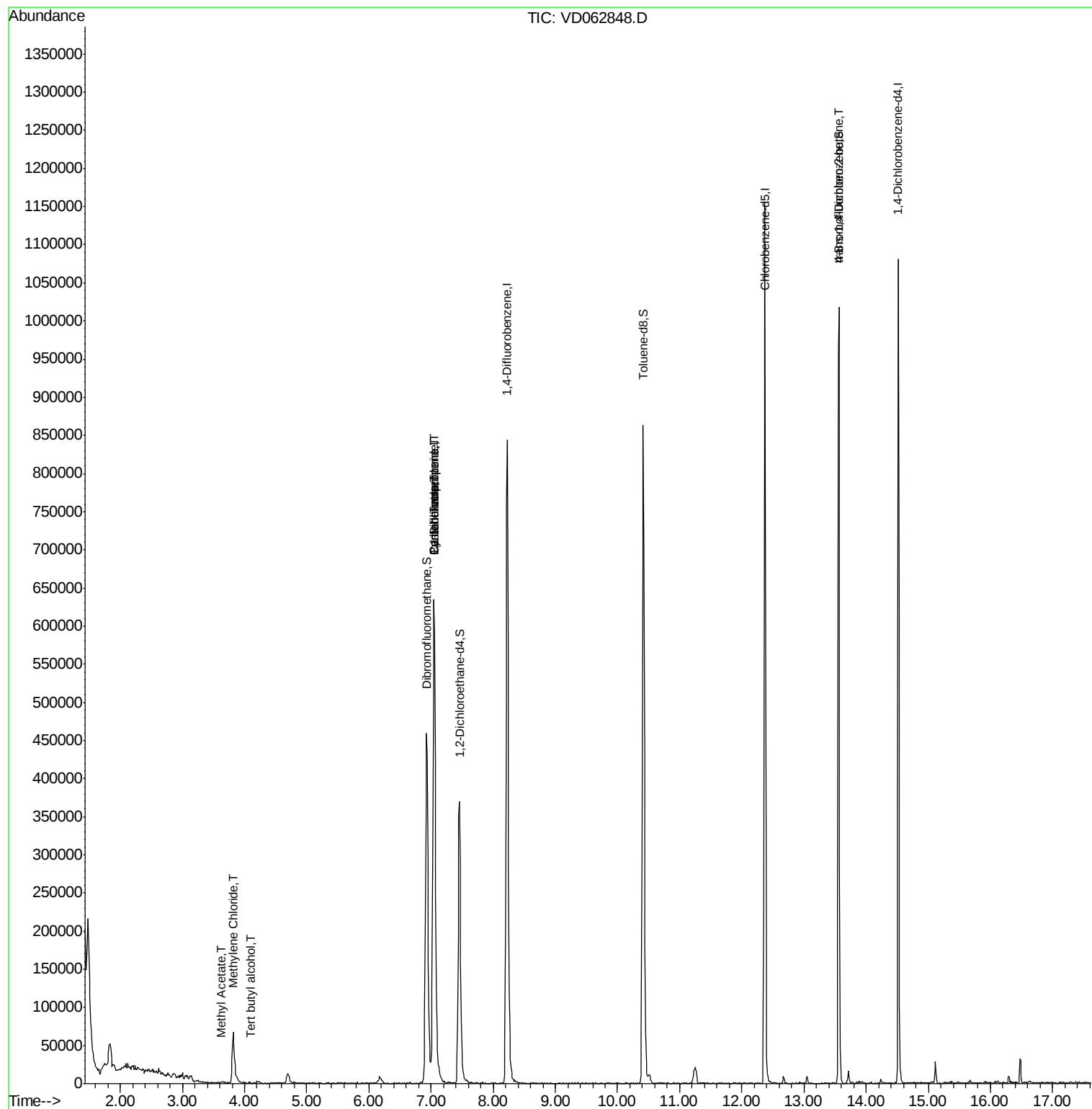
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.09	59	499	1.647	ug/l #	77
16) Acetone	3.21	43	1837	Below Cal	#	64
18) Methyl Acetate	3.64	43	2175	1.083	ug/l #	58
20) Methylene Chloride	3.82	84	41977	8.276	ug/l	93
31) Cyclohexane	7.04	56	15996	2.561	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	50971	6.245	ug/l #	51
37) Ethyl Acetate	6.20	43	470	Below Cal	#	69
38) Carbon Tetrachloride	7.05	117	63190	5.148	ug/l #	16
81) trans-1,4-Dichloro-2-buten	13.55	75	146896	222.665	ug/l #	2

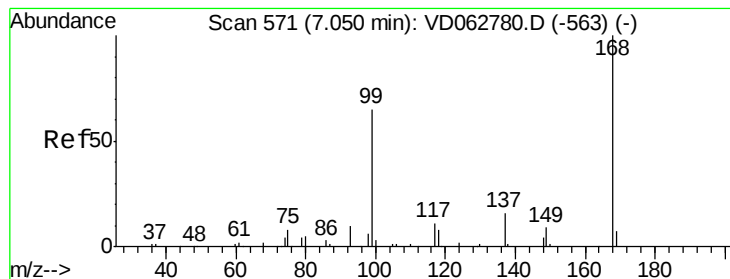
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 25 05:05:14 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD062848.D

Acq: 24 Jun 2019 18:48

Instrument :

MSVOA_D

ClientSampleId :

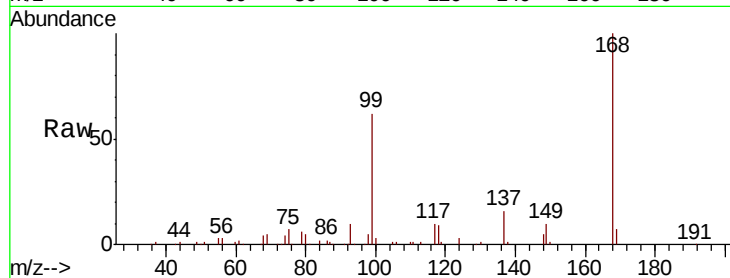
B-4(9-10)

Tot Ion:168 Resp: 611871

Ion Ratio Lower Upper

168 100

99 61.7 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

200000

150000

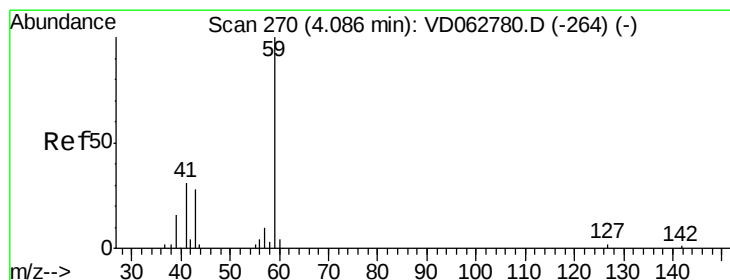
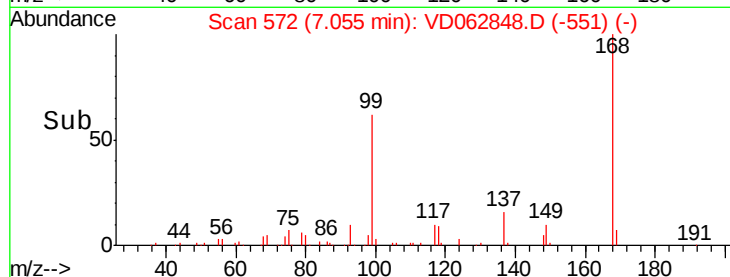
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#11

Tert butyl alcohol

Concen: 1.647 ug/l

RT: 4.09 min Scan# 271

Delta R.T. 0.01 min

Lab File: VD062848.D

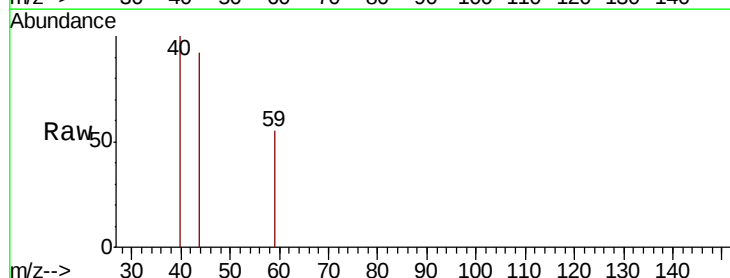
Acq: 24 Jun 2019 18:48

Tgt Ion: 59 Resp: 499

Ion Ratio Lower Upper

59 100

57 0.0 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.09

500

400

300

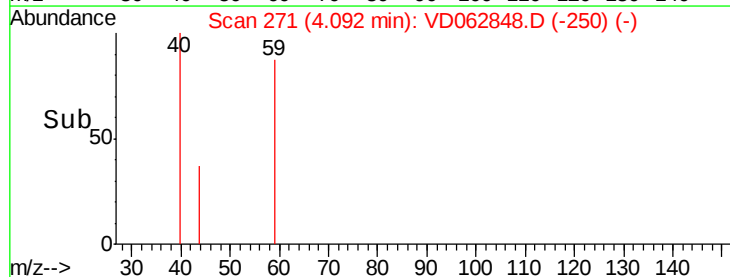
200

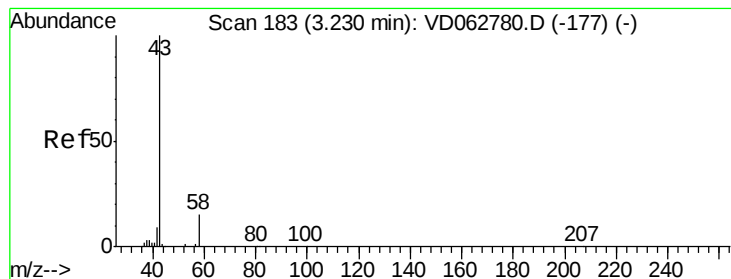
100

0

4.04 4.06 4.08 4.10 4.12

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.21 min Scan# 181

Delta R.T. -0.02 min

Lab File: VD062848.D

Acq: 24 Jun 2019 18:48

Instrument :

MSVOA_D

ClientSampleId :

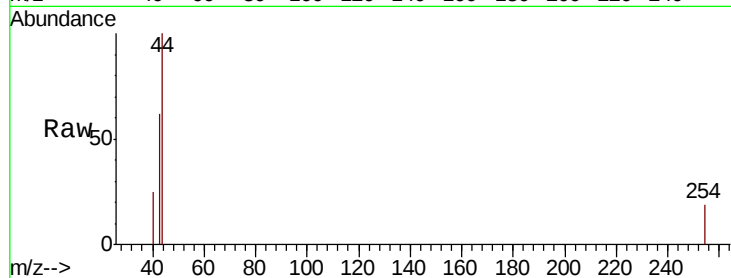
B-4(9-10)

Tot Ion: 43 Resp: 1837

Ion Ratio Lower Upper

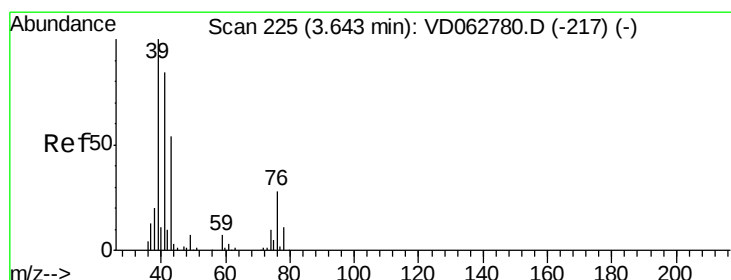
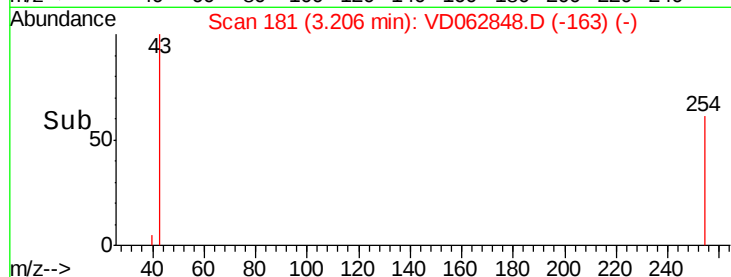
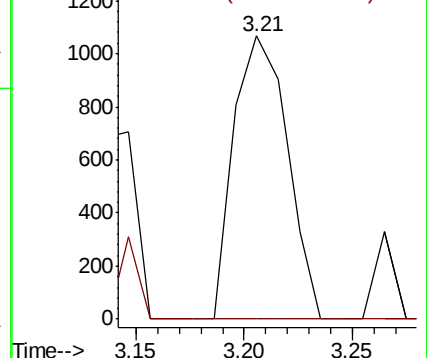
43 100

58 0.0 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.083 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.00 min

Lab File: VD062848.D

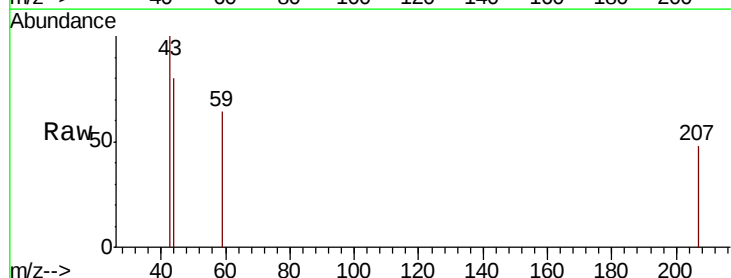
Acq: 24 Jun 2019 18:48

Tgt Ion: 43 Resp: 2175

Ion Ratio Lower Upper

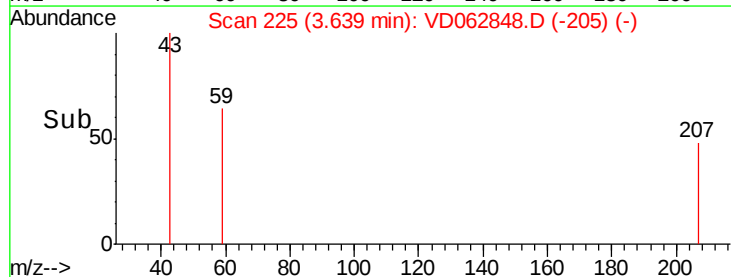
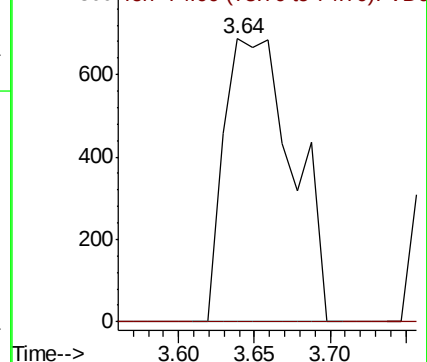
43 100

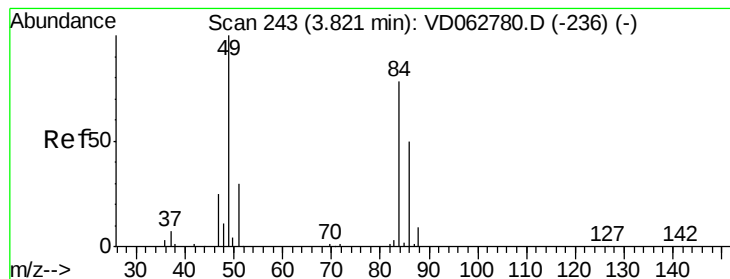
74 0.0 15.2 22.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: 8.276 ug/l

RT: 3.82 min Scan# 243

Delta R.T. -0.00 min

Lab File: VD062848.D

Acq: 24 Jun 2019 18:48

Instrument :

MSVOA_D

ClientSampleId :

B-4(9-10)

Tot Ion: 84 Resp: 41977

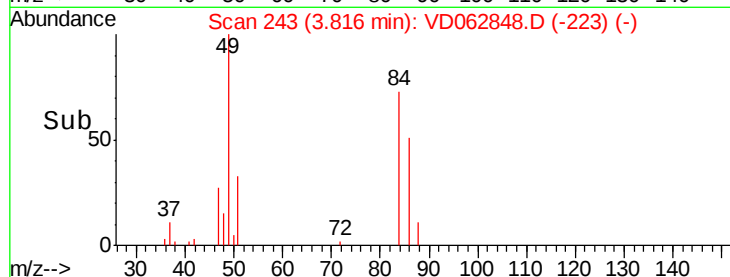
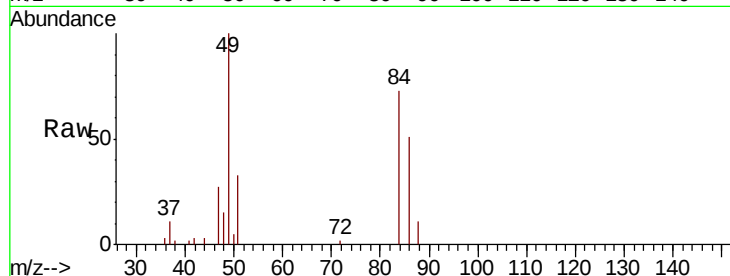
Ion Ratio Lower Upper

84 100

49 136.6 102.9 154.3

51 45.2 31.2 46.8

86 69.3 51.4 77.2



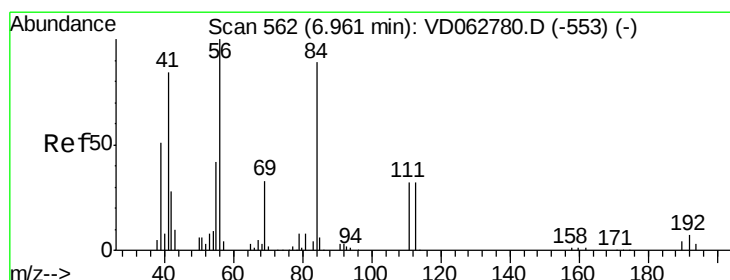
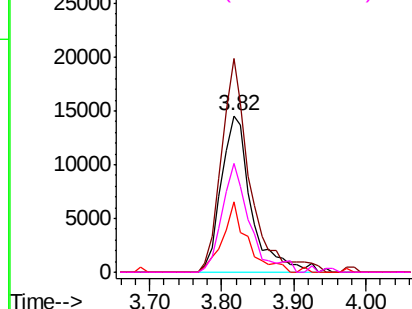
Abundance

Ion 83.95 (83.65 to 84.65): 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



#31

Cyclohexane

Concen: 2.561 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.07 min

Lab File: VD062848.D

Acq: 24 Jun 2019 18:48

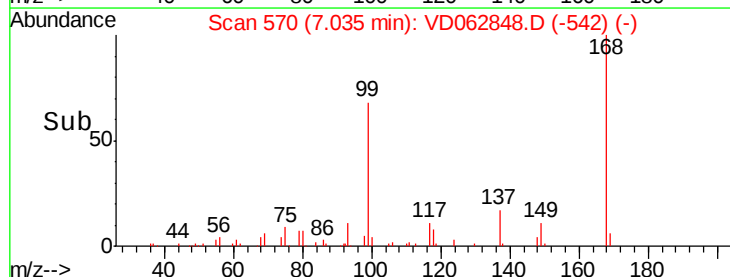
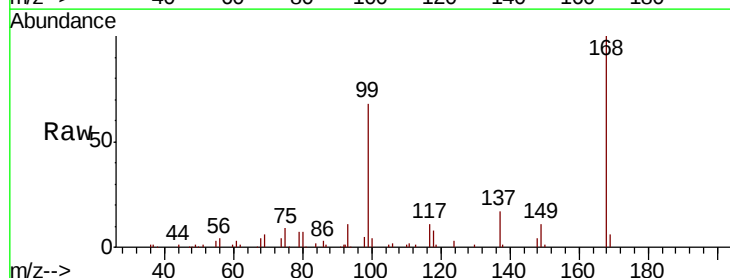
Tgt Ion: 56 Resp: 15996

Ion Ratio Lower Upper

56 100

69 167.3 26.6 39.8#

84 44.0 75.5 113.3#

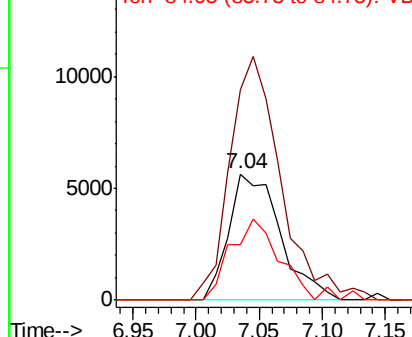


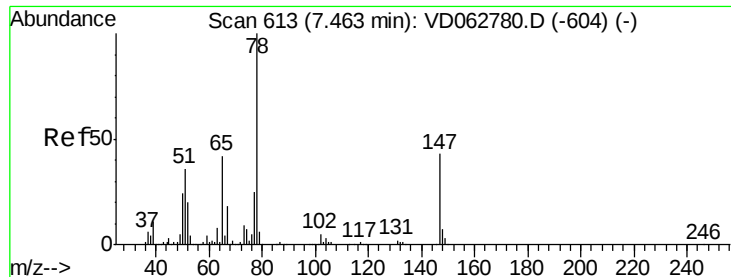
Abundance

Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 62.975 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD062848.D

Acq: 24 Jun 2019 18:48

Instrument :

MSVOA_D

ClientSampleId :

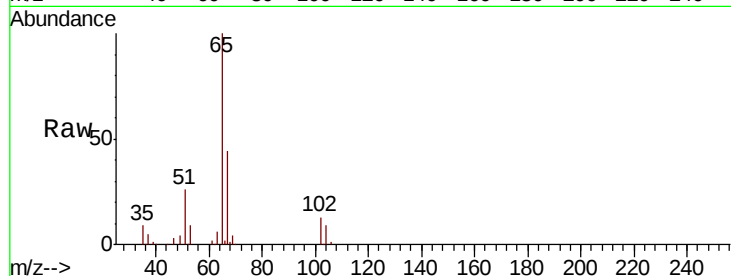
B-4(9-10)

Tot Ion: 65 Resp: 418846

Ion Ratio Lower Upper

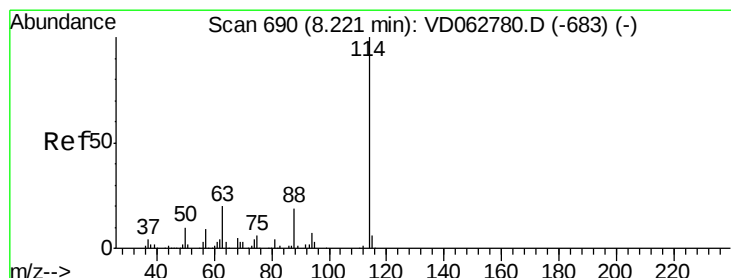
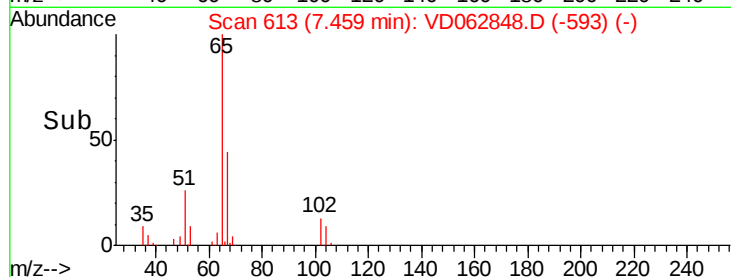
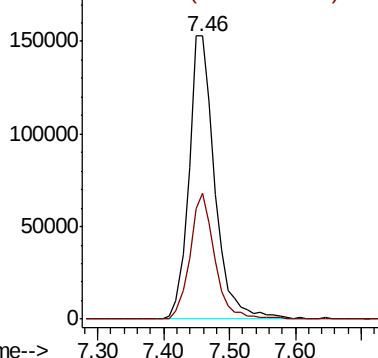
65 100

67 44.5 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD062848.D

Acq: 24 Jun 2019 18:48

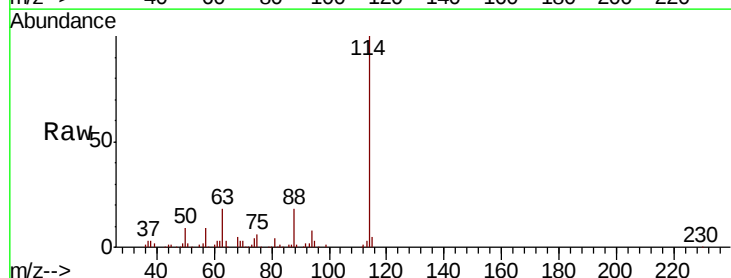
Tgt Ion: 114 Resp: 862193

Ion Ratio Lower Upper

114 100

63 18.4 0.0 40.0

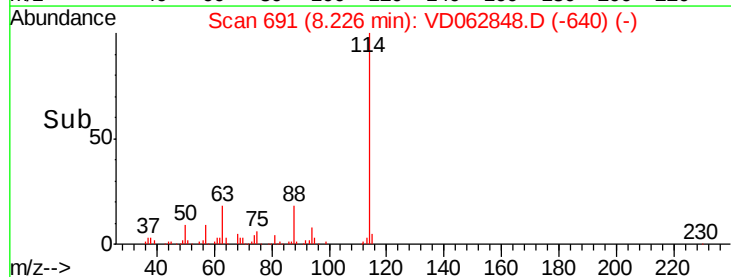
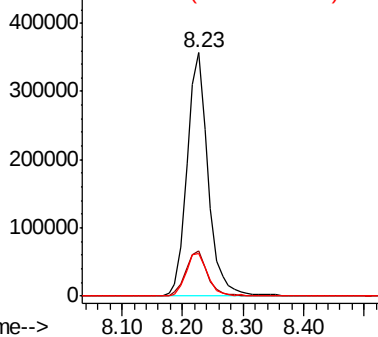
88 17.7 0.0 38.8

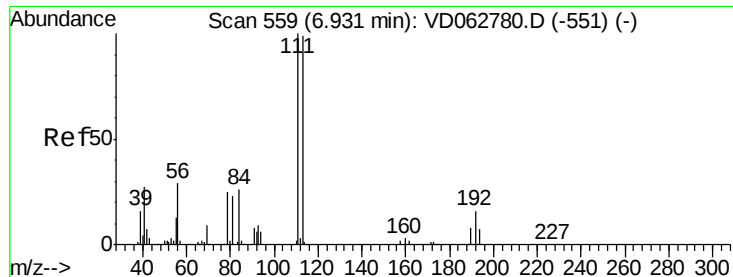


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 56.036 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD062848.D

Acq: 24 Jun 2019 18:48

Instrument :

MSVOA_D

ClientSampleId :

B-4(9-10)

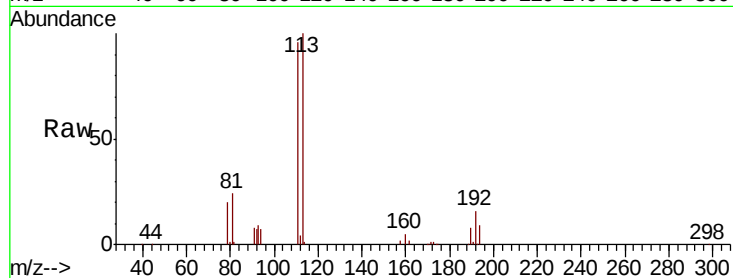
Tot Ion:113 Resp: 407383

Ion Ratio Lower Upper

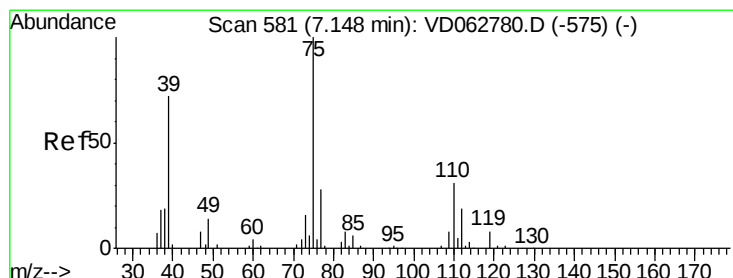
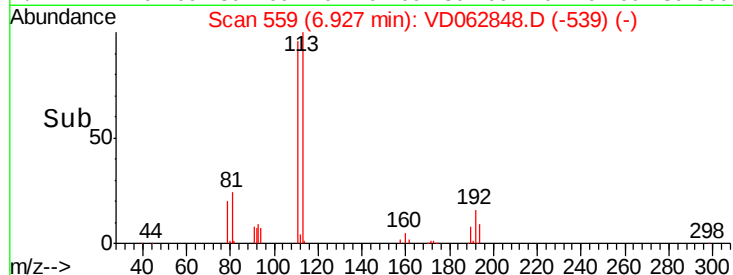
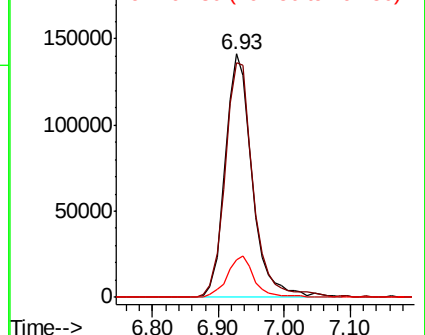
113 100

111 96.3 81.2 121.8

192 15.6 12.9 19.3



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 6.245 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD062848.D

Acq: 24 Jun 2019 18:48

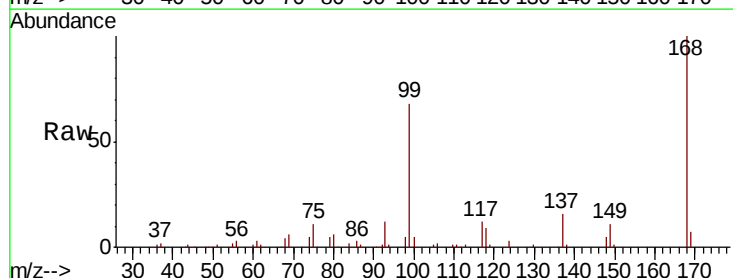
Tgt Ion: 75 Resp: 50971

Ion Ratio Lower Upper

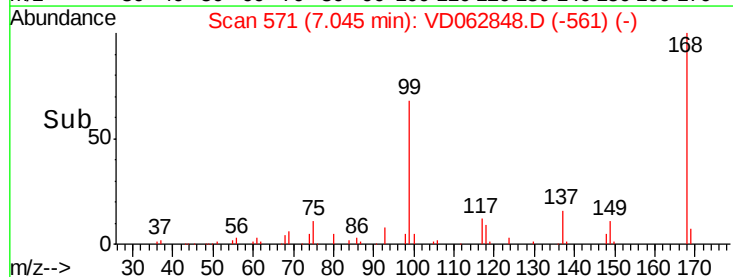
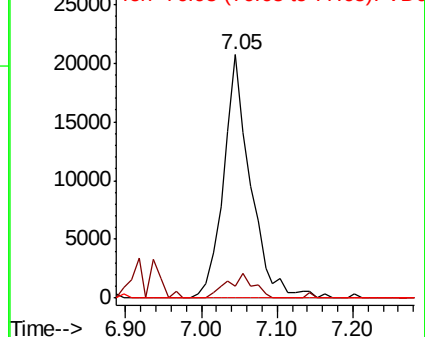
75 100

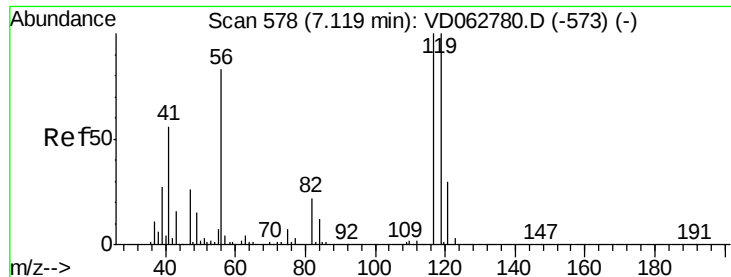
110 5.1 15.0 45.1#

77 0.0 22.2 33.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 5.148 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD062848.D

Acq: 24 Jun 2019 18:48

Instrument :

MSVOA_D

ClientSampleId :

B-4(9-10)

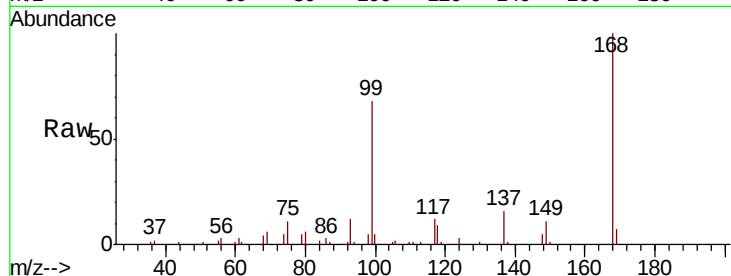
Tot Ion:117 Resp: 63190

Ion Ratio Lower Upper

117 100

119 4.3 75.4 113.2#

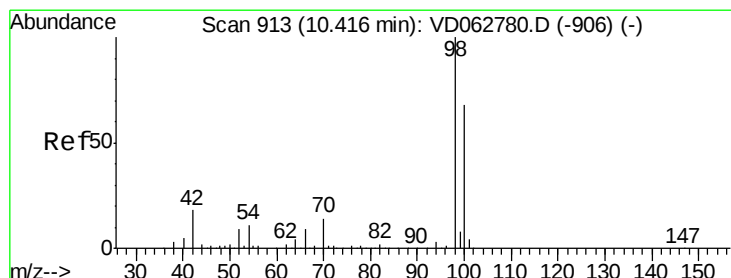
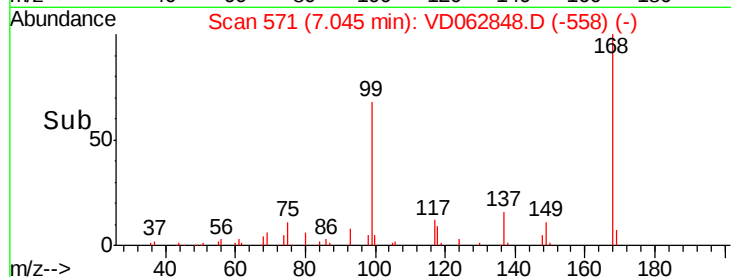
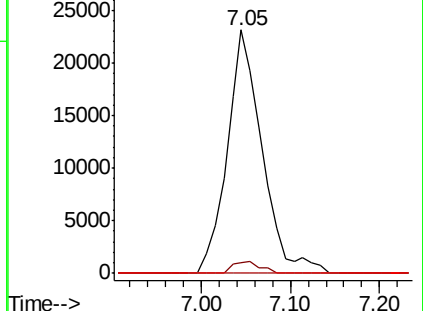
121 0.0 22.3 33.5#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: 45.190 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD062848.D

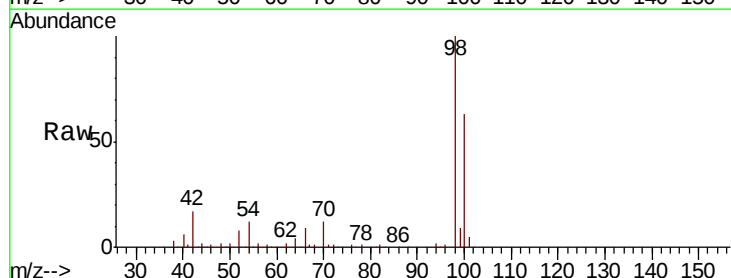
Acq: 24 Jun 2019 18:48

Tgt Ion: 98 Resp: 715034

Ion Ratio Lower Upper

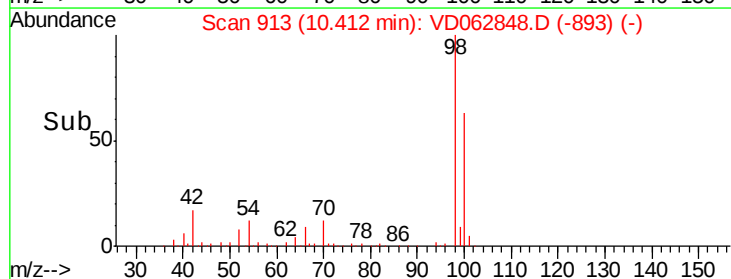
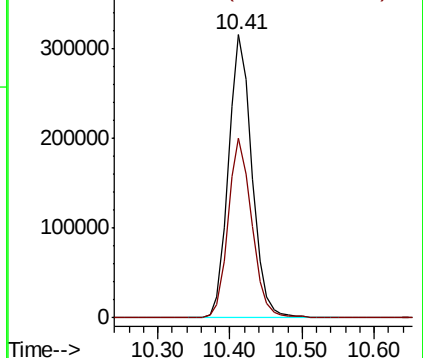
98 100

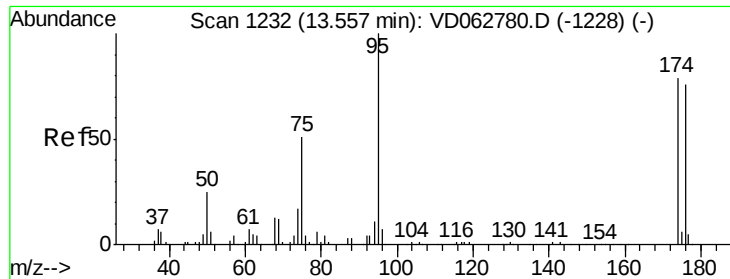
100 63.4 54.7 82.1



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: 40.897 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062848.D

Acq: 24 Jun 2019 18:48

Instrument :

MSVOA_D

ClientSampleId :

B-4(9-10)

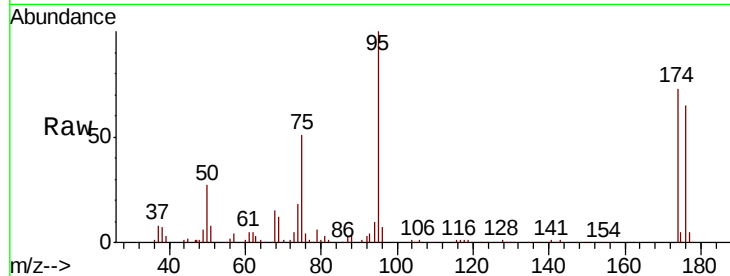
Tot Ion: 95 Resp: 294247

Ion Ratio Lower Upper

95 100

174 73.1 0.0 158.0

176 65.0 0.0 151.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

250000

200000

150000

100000

50000

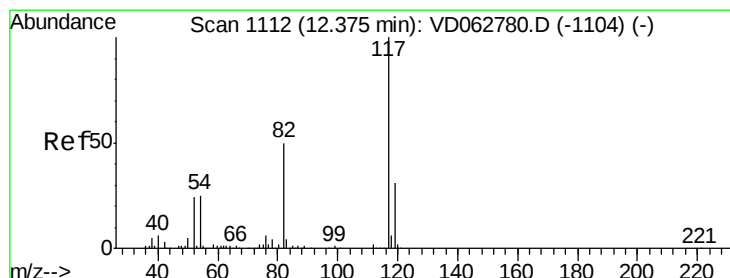
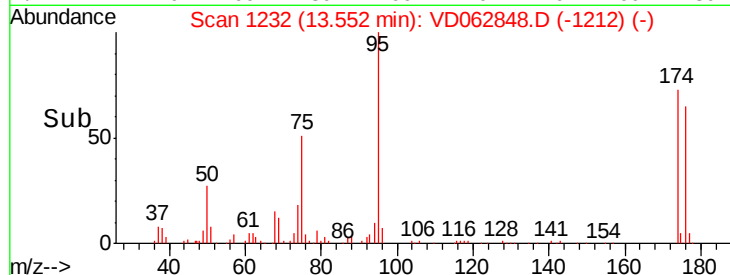
0

13.55

13.50

13.60

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VD062848.D

Acq: 24 Jun 2019 18:48

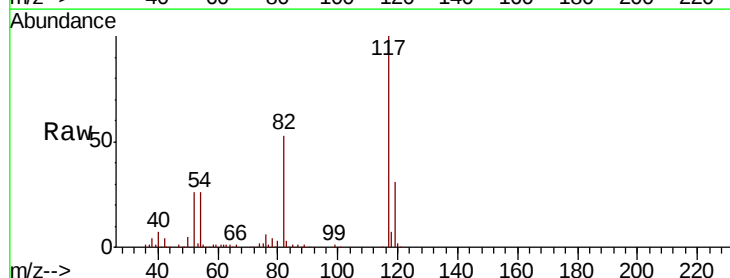
Tgt Ion: 117 Resp: 589104

Ion Ratio Lower Upper

117 100

82 53.2 40.4 60.6

119 30.9 25.2 37.8



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

500000

400000

300000

200000

100000

0

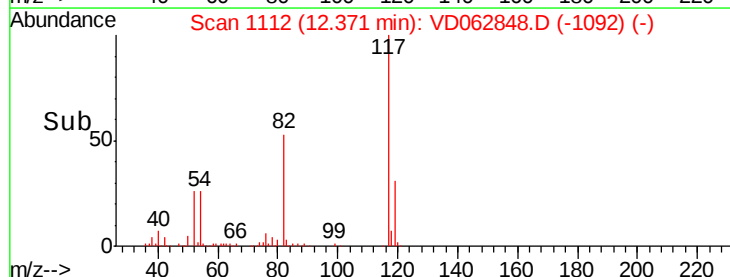
12.37

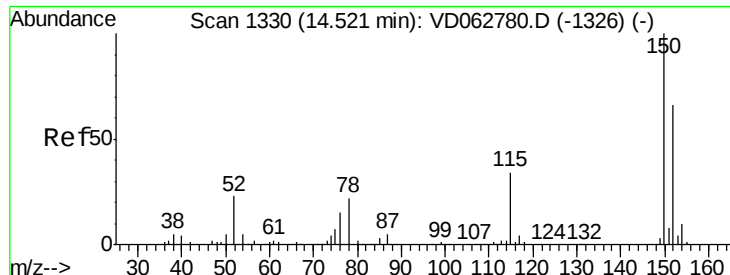
12.30

12.40

12.50

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD062848.D

Acq: 24 Jun 2019 18:48

Instrument :

MSVOA_D

ClientSampleId :

B-4(9-10)

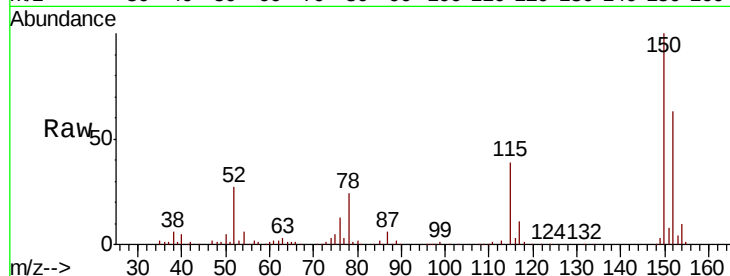
Tot Ion:152 Resp: 218047

Ion Ratio Lower Upper

152 100

115 61.4 29.2 87.6

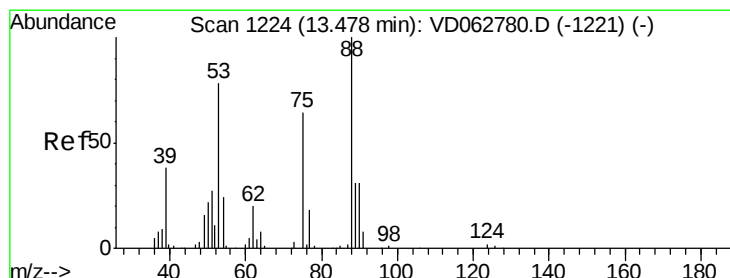
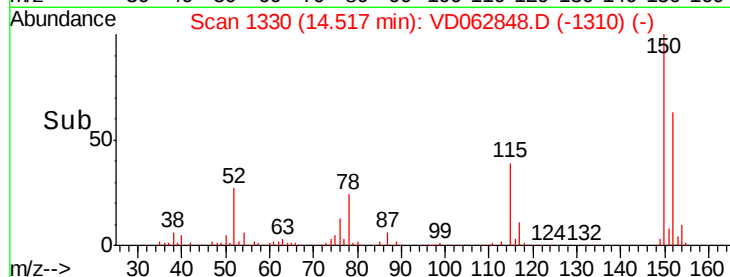
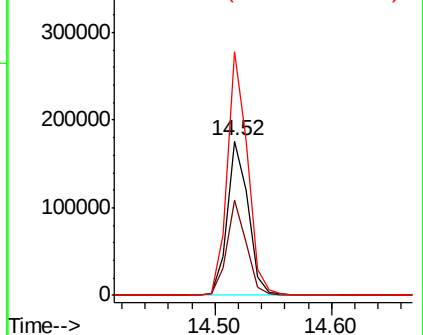
150 157.9 0.0 305.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 222.665 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD062848.D

Acq: 24 Jun 2019 18:48

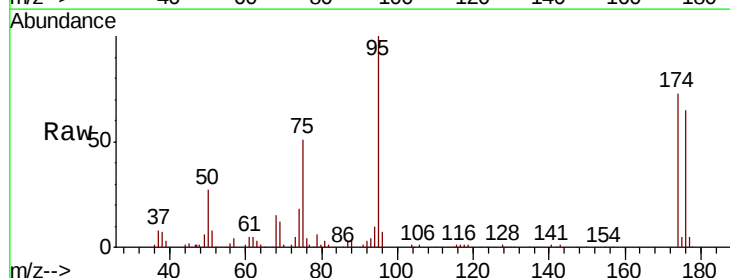
Tgt Ion: 75 Resp: 146896

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

89 0.0 39.4 59.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

