

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD081919\
 Data File : VD063669.D
 Acq On : 19 Aug 2019 20:28
 Operator : JC/SY
 Sample : K4385-05RE
 Misc : 5.55g/5ml/MSVOA_D/SOIL
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T8-A4-(0)RE

Quant Time: Aug 20 08:17:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	70928	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.21	114	122682	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	90392	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	33465	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	77553	102.29	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	204.58%	
35) Dibromofluoromethane	6.92	113	64856	62.77	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	125.54%	
50) Toluene-d8	10.40	98	97079	42.74	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	85.48%	
62) 4-Bromofluorobenzene	13.55	95	37035	35.97	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	71.94%	

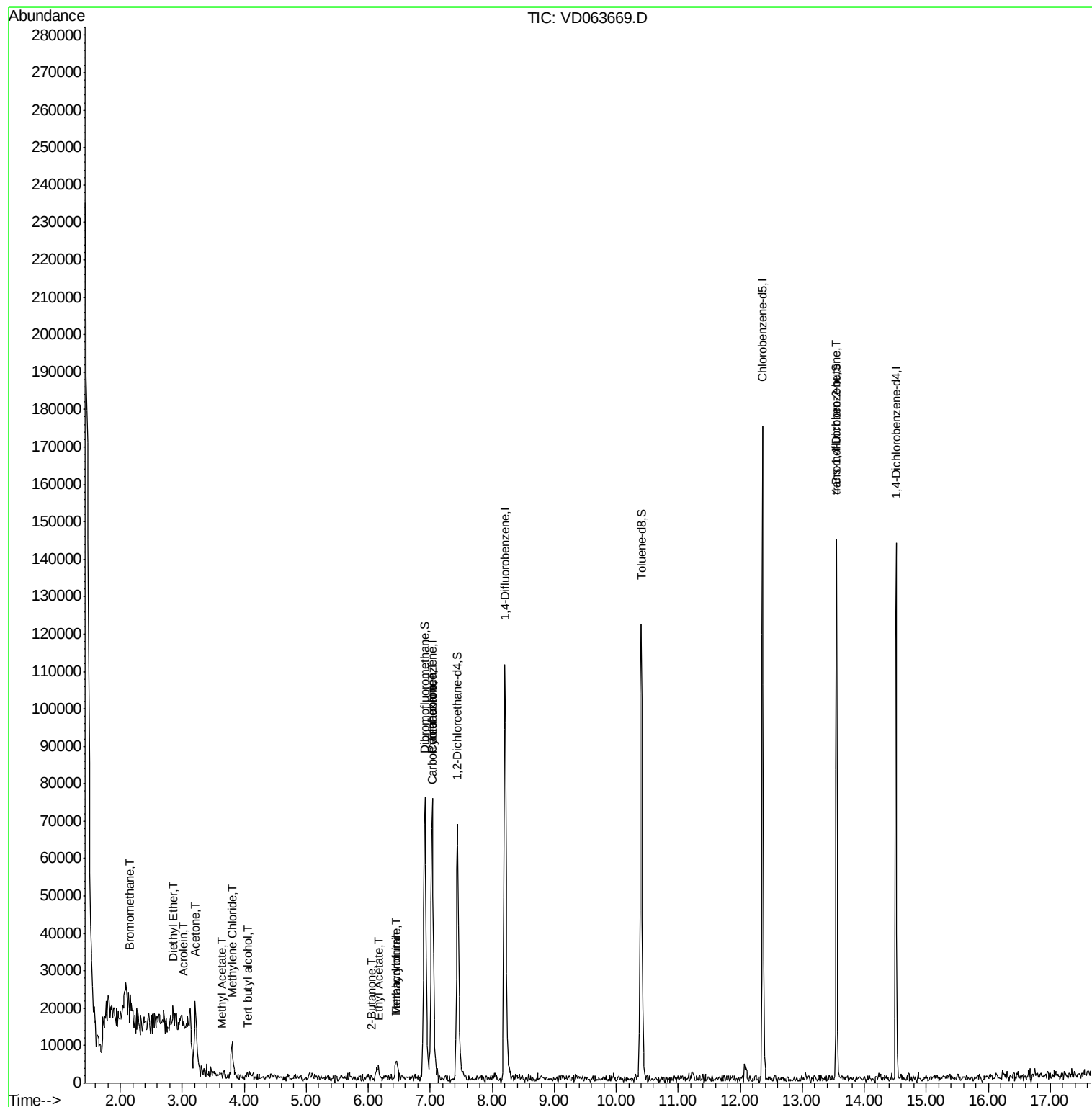
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	2904	9.247	ug/l #	11
8) Diethyl Ether	2.86	74	336	1.823	ug/l	56
11) Tert butyl alcohol	4.05	59	549	16.634	ug/l #	71
13) Acrolein	3.02	56	650	20.008	ug/l #	1
16) Acetone	3.21	43	32481	210.751	ug/l	97
18) Methyl Acetate	3.63	43	1157	3.963	ug/l #	57
20) Methylene Chloride	3.80	84	4284	6.428	ug/l #	60
25) 2-Butanone	6.05	43	637	4.185	ug/l #	58
29) Tetrahydrofuran	6.46	42	4852	68.407	ug/l #	65
31) Cyclohexane	7.03	56	1646	2.404	ug/l #	1
37) Ethyl Acetate	6.17	43	511	1.124	ug/l #	73
38) Carbon Tetrachloride	7.02	117	6582	4.027	ug/l #	13
41) Methacrylonitrile	6.45	41	3248	5.676	ug/l #	73
81) trans-1,4-Dichloro-2-buten	13.55	75	17386	168.425	ug/l #	1

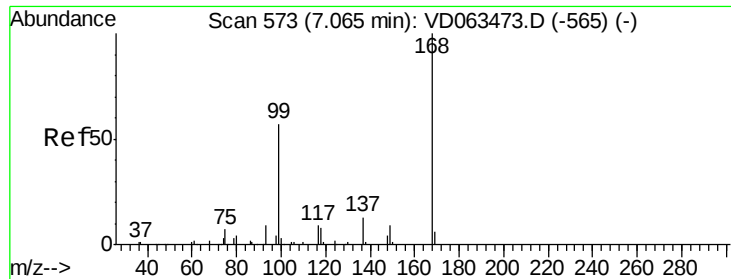
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.03 min

Lab File: VD063669.D

Acq: 19 Aug 2019 20:28

Instrument :

MSVOA_D

ClientSampleId :

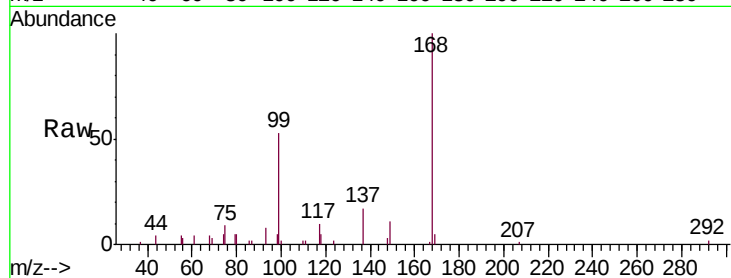
T8-A4-(0)RE

Tgt Ion:168 Resp: 70928

Ion Ratio Lower Upper

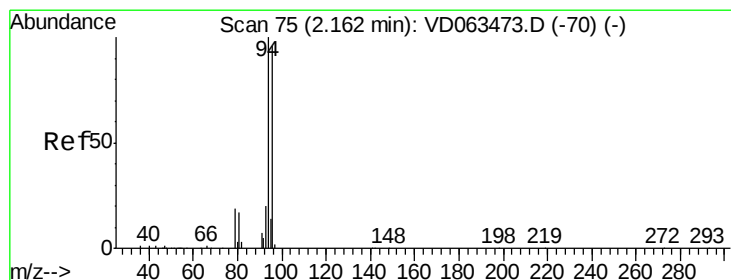
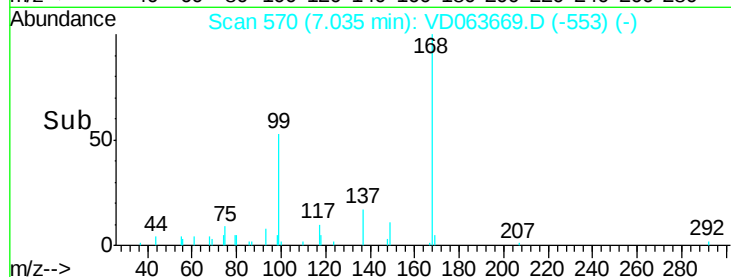
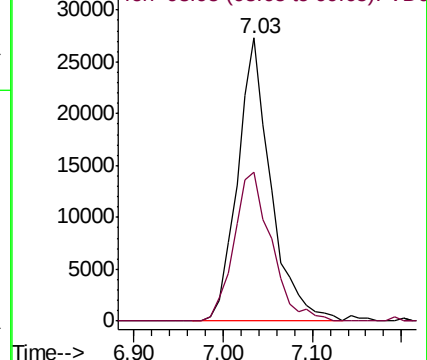
168 100

99 52.8 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 9.247 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.01 min

Lab File: VD063669.D

Acq: 19 Aug 2019 20:28

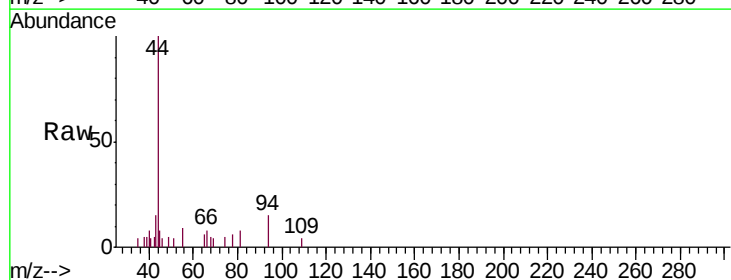
Tgt Ion: 94 Resp: 2904

Ion Ratio Lower Upper

94 100

96 0.0 76.5 114.7#

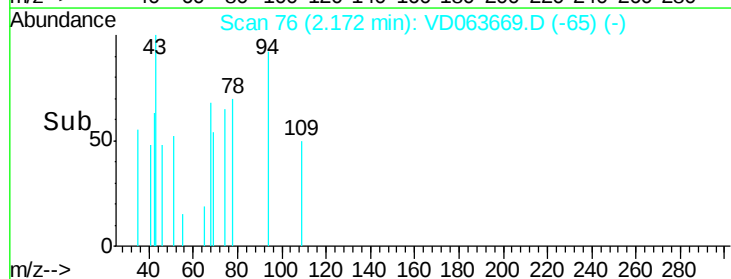
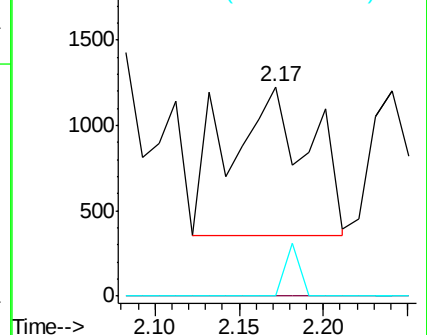
93 0.0 15.8 23.8#

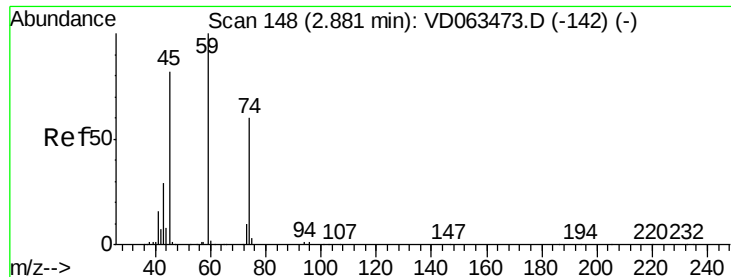


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#8

Diethyl Ether

Concen: 1.823 ug/l

RT: 2.86 min Scan# 146

Delta R.T. -0.02 min

Lab File: VD063669.D

Acq: 19 Aug 2019 20:28

Instrument :

MSVOA_D

ClientSampleId :

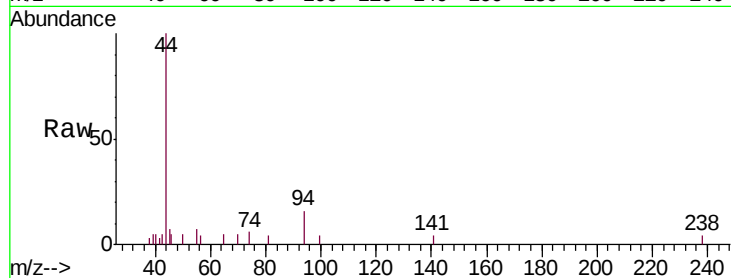
T8-A4-(0)RE

Tgt Ion: 74 Resp: 336

Ion Ratio Lower Upper

74 100

45 189.8 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

800

600

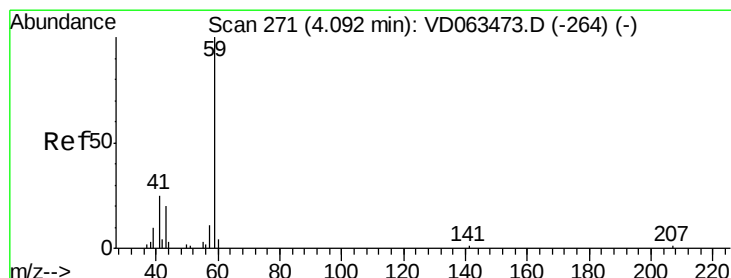
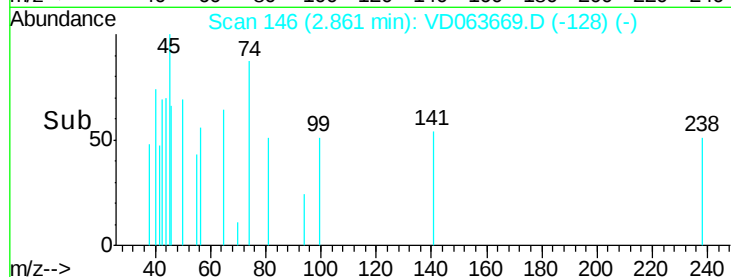
400

200

0

2.84 2.86 2.88

Time-->



#11

Tert butyl alcohol

Concen: 16.634 ug/l

RT: 4.05 min Scan# 267

Delta R.T. -0.04 min

Lab File: VD063669.D

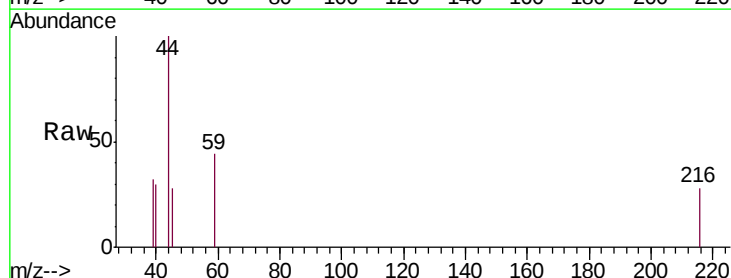
Acq: 19 Aug 2019 20:28

Tgt Ion: 59 Resp: 549

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

500

400

300

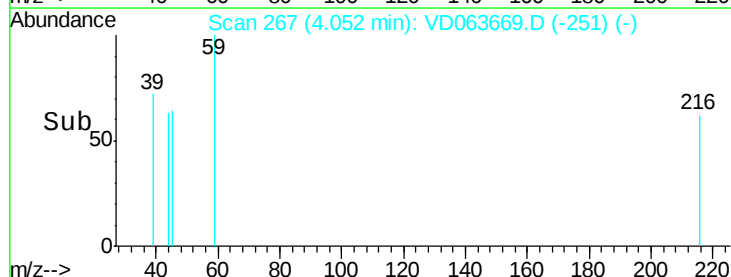
200

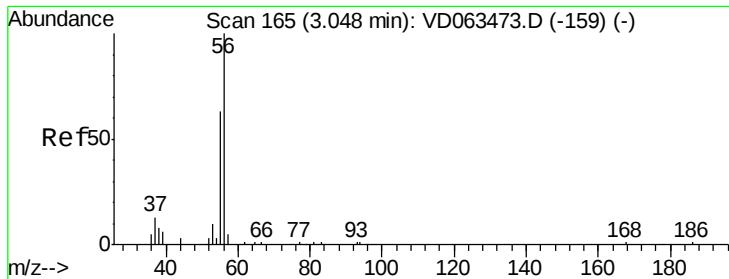
100

0

4.05 4.10

Time-->





#13

Acrolein

Concen: 20.008 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.03 min

Lab File: VD063669.D

Acq: 19 Aug 2019 20:28

Instrument :

MSVOA_D

ClientSampleId :

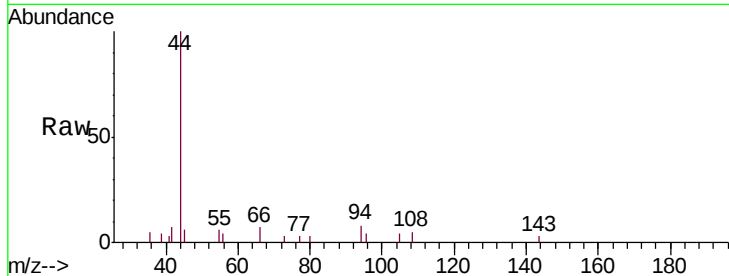
T8-A4-(0)RE

Tgt Ion: 56 Resp: 650

Ion Ratio Lower Upper

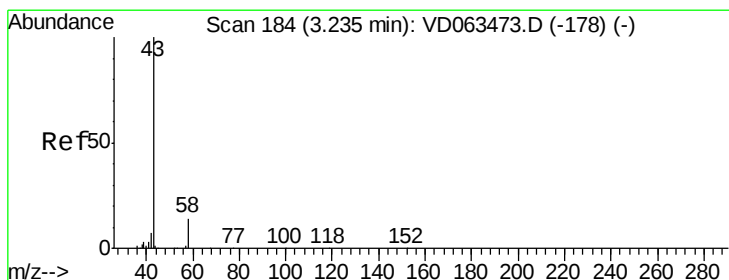
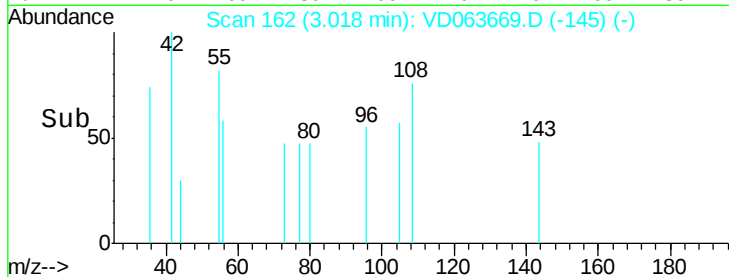
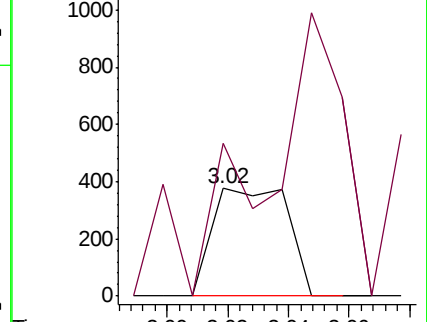
56 100

55 142.3 51.3 76.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 210.751 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.03 min

Lab File: VD063669.D

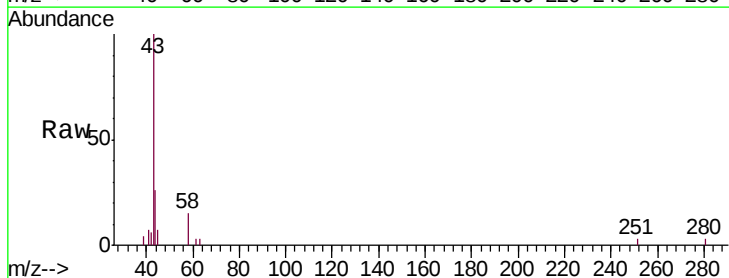
Acq: 19 Aug 2019 20:28

Tgt Ion: 43 Resp: 32481

Ion Ratio Lower Upper

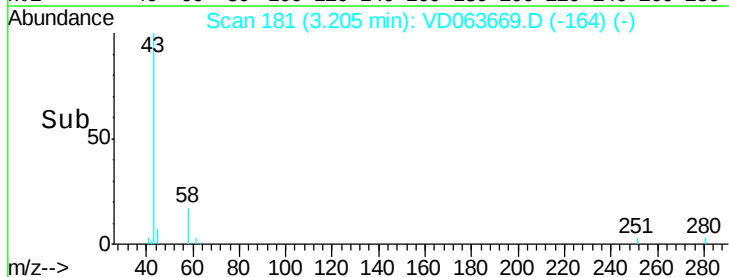
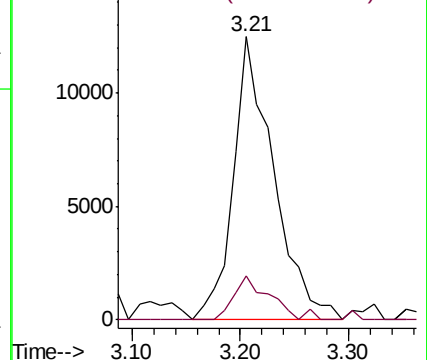
43 100

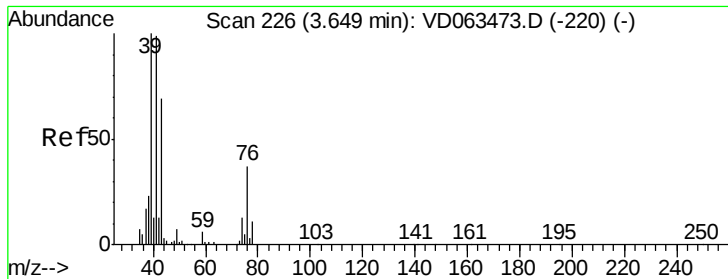
58 15.4 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

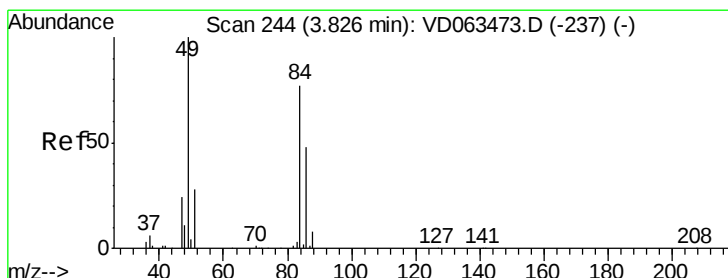
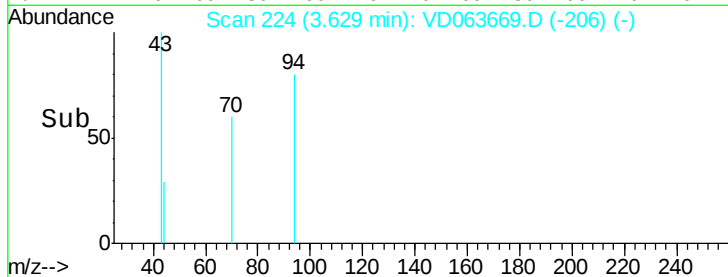
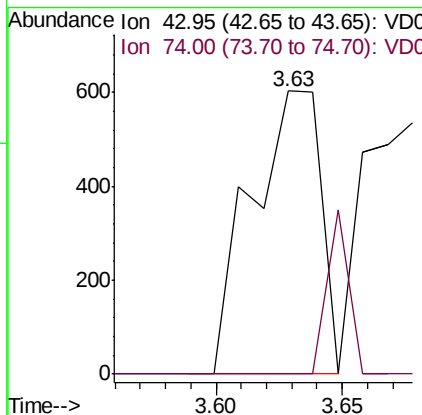
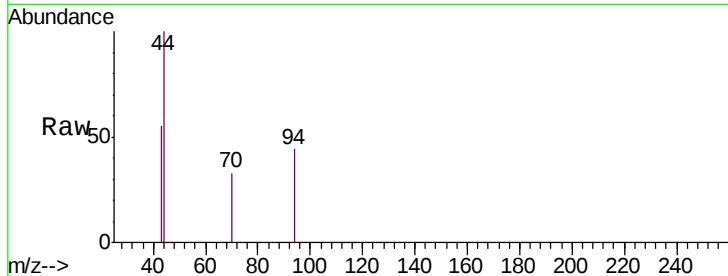




#18
Methyl Acetate
Concen: 3.963 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.02 min
Lab File: VD063669.D
Acq: 19 Aug 2019 20:28

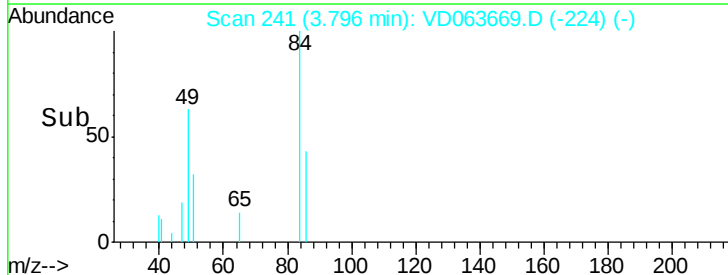
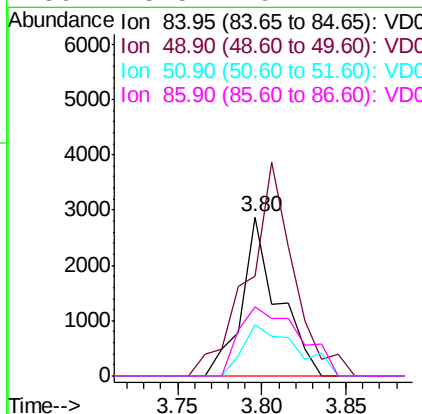
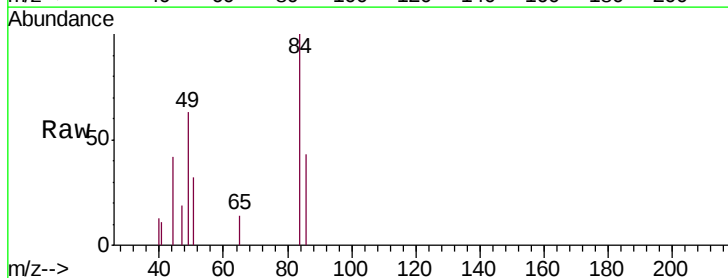
Instrument :
MSVOA_D
ClientSampleId :
T8-A4-(0)RE

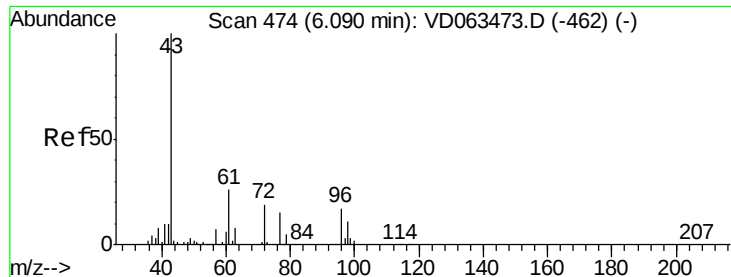
Tgt Ion: 43 Resp: 1157
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#



#20
Methylene Chloride
Concen: 6.428 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.03 min
Lab File: VD063669.D
Acq: 19 Aug 2019 20:28

Tgt Ion: 84 Resp: 4284
Ion Ratio Lower Upper
84 100
49 63.0 103.4 155.2#
51 31.9 28.5 42.7
86 43.5 49.4 74.2#





#25

2-Butanone

Concen: 4.185 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.04 min

Lab File: VD063669.D

Acq: 19 Aug 2019 20:28

Instrument :

MSVOA_D

ClientSampleId :

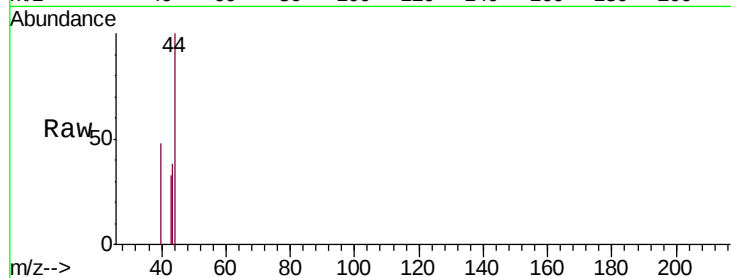
T8-A4-(0)RE

Tgt Ion: 43 Resp: 637

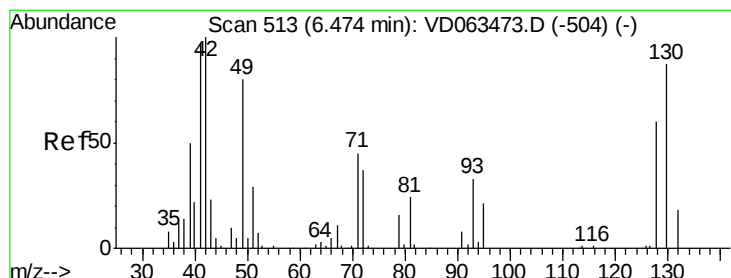
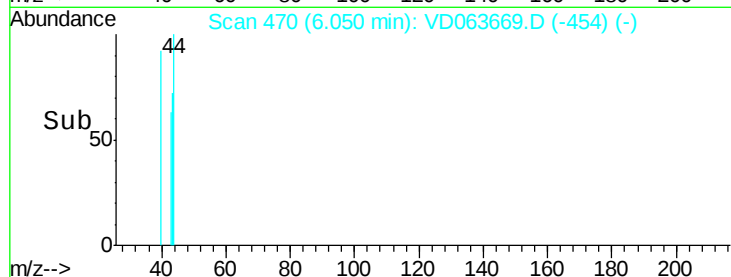
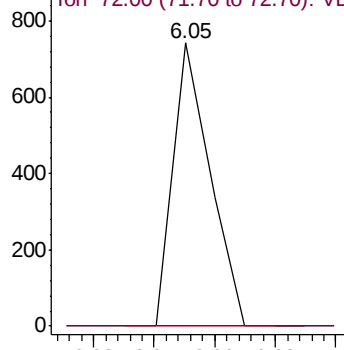
Ion Ratio Lower Upper

43 100

72 0.0 15.1 22.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC



#29

Tetrahydrofuran

Concen: 68.407 ug/l

RT: 6.46 min Scan# 512

Delta R.T. -0.01 min

Lab File: VD063669.D

Acq: 19 Aug 2019 20:28

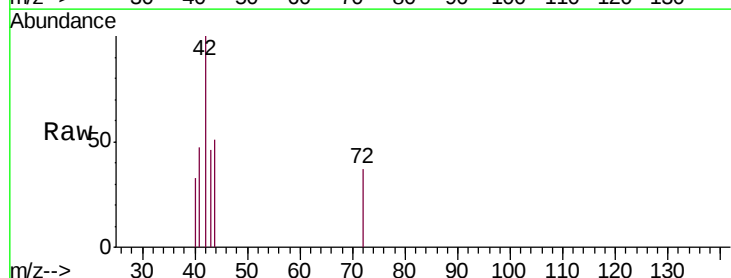
Tgt Ion: 42 Resp: 4852

Ion Ratio Lower Upper

42 100

72 23.2 31.5 47.3#

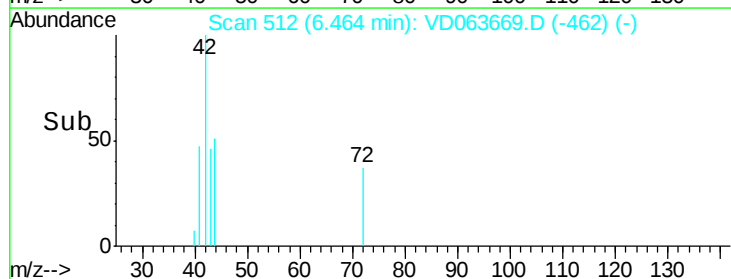
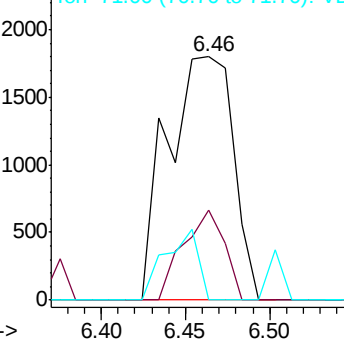
71 14.7 33.8 50.8#

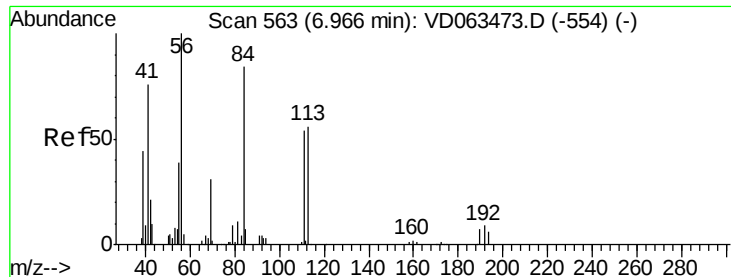


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

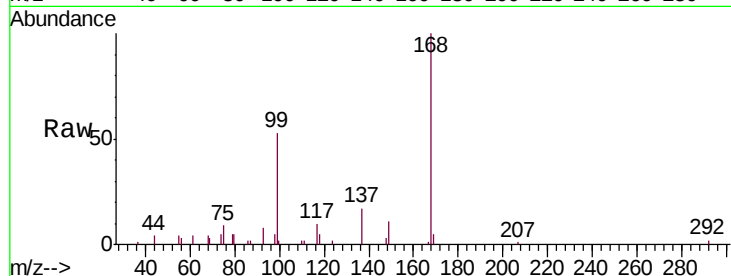




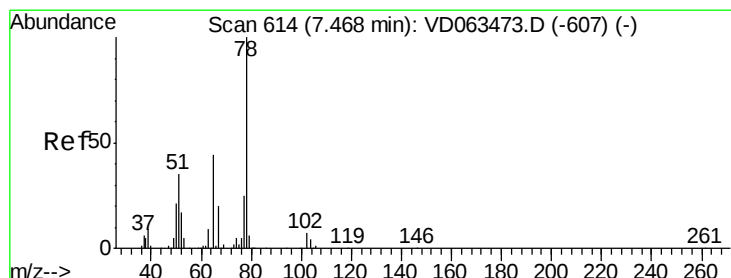
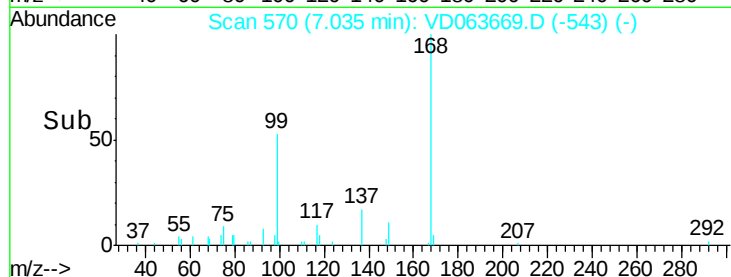
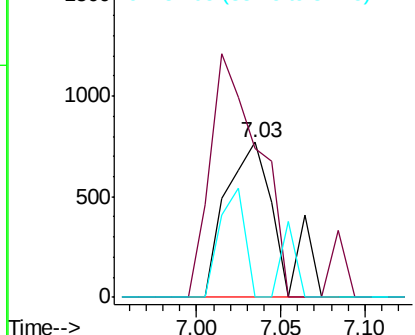
#31
Cyclohexane
Concen: 2.404 ug/l
RT: 7.03 min Scan# 570
Delta R.T. 0.07 min
Lab File: VD063669.D
Acq: 19 Aug 2019 20:28

Instrument :
MSVOA_D
ClientSampleId :
T8-A4-(0)RE

Tgt Ion: 56 Resp: 1646
Ion Ratio Lower Upper
56 100
69 96.2 25.0 37.6#
84 0.0 69.7 104.5#

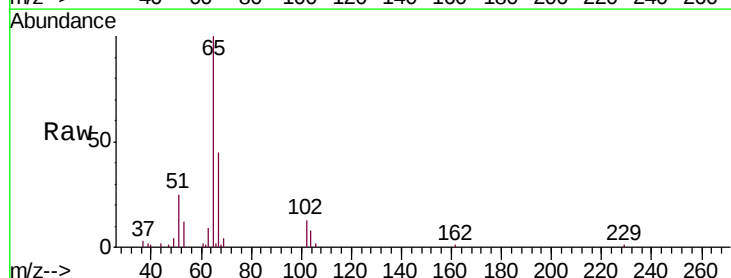


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

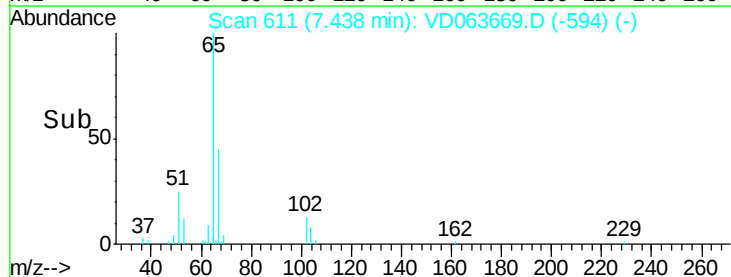
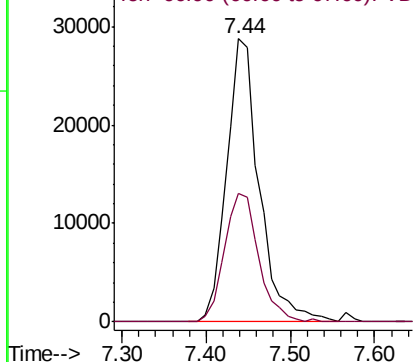


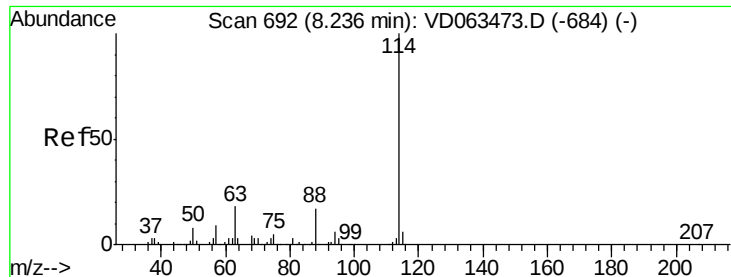
#33
1,2-Dichloroethane-d4
Concen: 102.290 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.03 min
Lab File: VD063669.D
Acq: 19 Aug 2019 20:28

Tgt Ion: 65 Resp: 77553
Ion Ratio Lower Upper
65 100
67 45.2 0.0 89.2



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: 8.21 min Scan# 689

Delta R.T. -0.03 min

Lab File: VD063669.D

Acq: 19 Aug 2019 20:28

Instrument :

MSVOA_D

ClientSampleId :

T8-A4-(0)RE

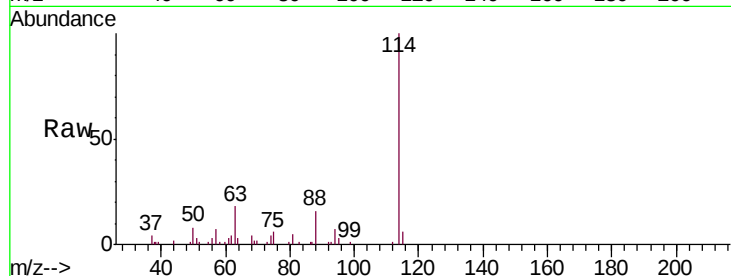
Tgt Ion:114 Resp: 122682

Ion Ratio Lower Upper

114 100

63 18.4 0.0 36.2

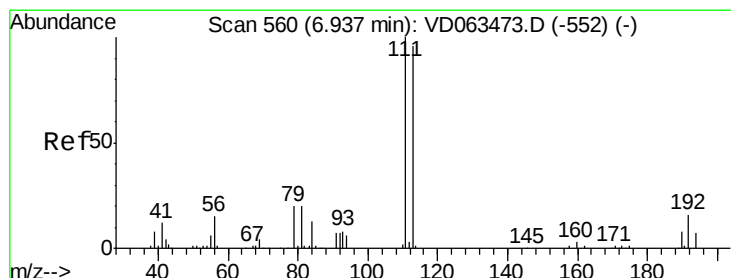
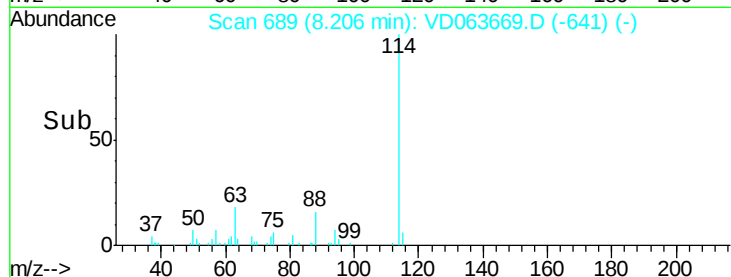
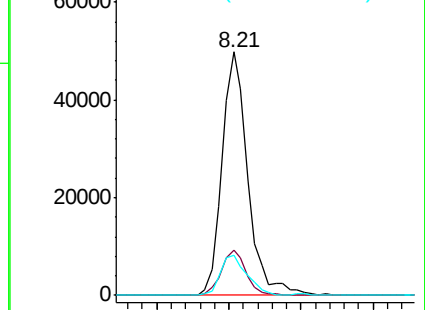
88 16.5 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 62.770 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063669.D

Acq: 19 Aug 2019 20:28

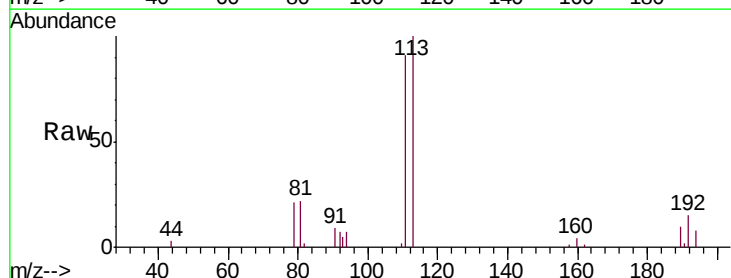
Tgt Ion:113 Resp: 64856

Ion Ratio Lower Upper

113 100

111 91.3 83.1 124.7

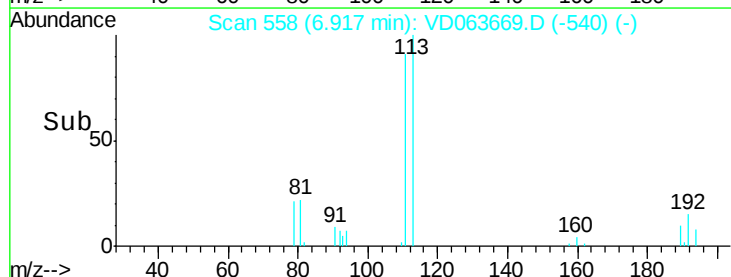
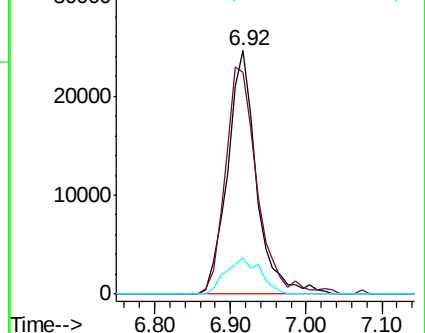
192 14.7 13.1 19.7

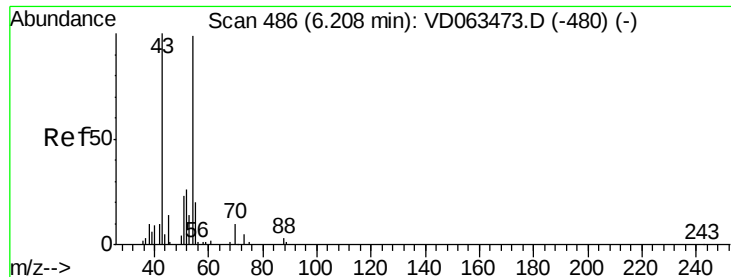


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

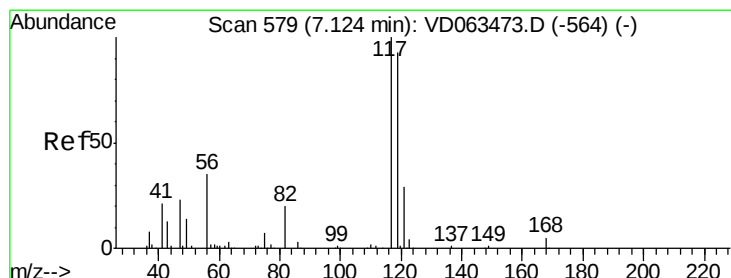
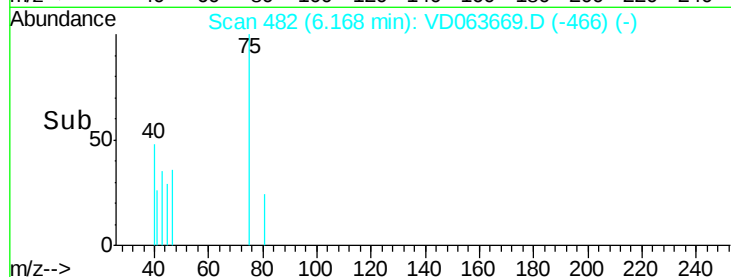
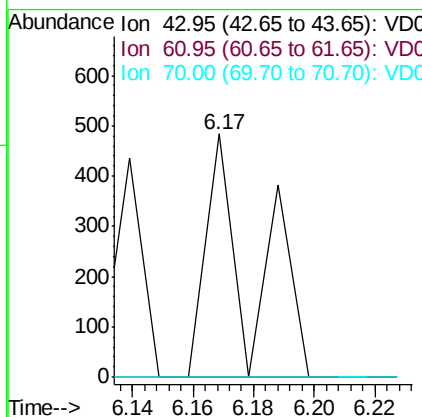
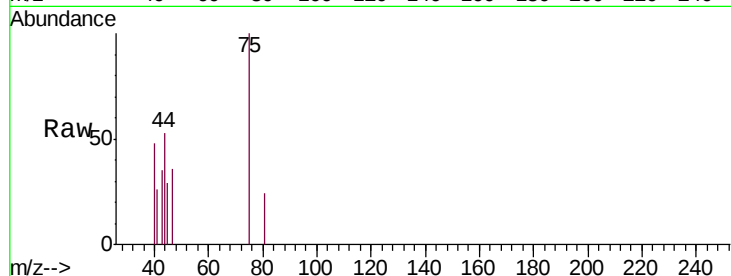




#37
 Ethyl Acetate
 Concen: 1.124 ug/l
 RT: 6.17 min Scan# 482
 Delta R.T. -0.04 min
 Lab File: VD063669.D
 Acq: 19 Aug 2019 20:28

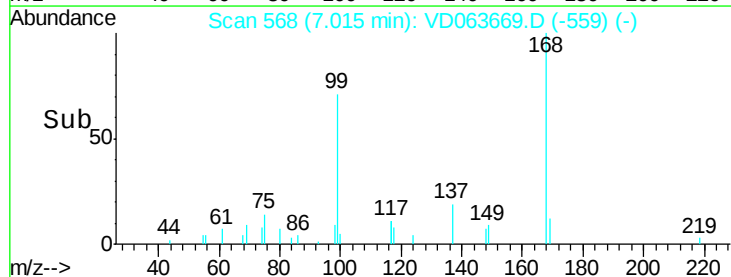
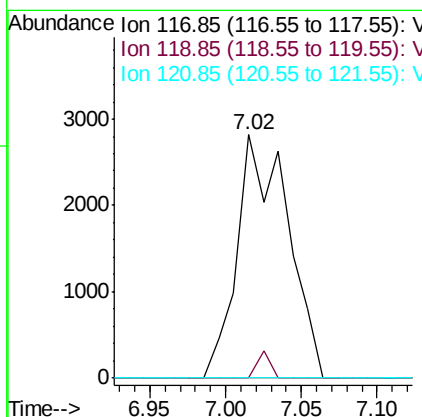
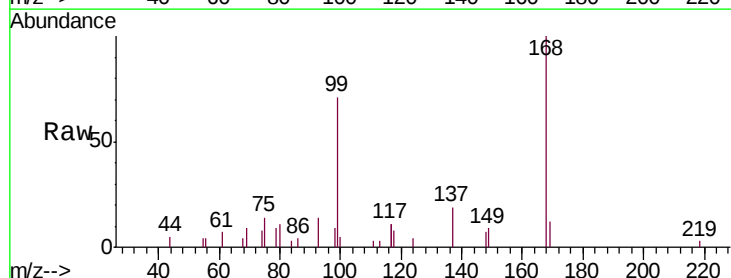
Instrument :
 MSVOA_D
 ClientSampleId :
 T8-A4-(0)RE

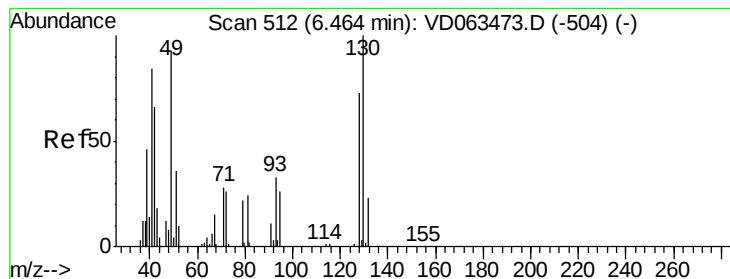
Tgt Ion: 43 Resp: 511
 Ion Ratio Lower Upper
 43 100
 61 0.0 9.0 13.6#
 70 0.0 6.9 10.3#



#38
 Carbon Tetrachloride
 Concen: 4.027 ug/l
 RT: 7.02 min Scan# 568
 Delta R.T. -0.11 min
 Lab File: VD063669.D
 Acq: 19 Aug 2019 20:28

Tgt Ion: 117 Resp: 6582
 Ion Ratio Lower Upper
 117 100
 119 0.0 74.2 111.2#
 121 0.0 23.1 34.7#





#41

Methacrylonitrile

Concen: 5.676 ug/l

RT: 6.45 min Scan# 511

Delta R.T. -0.01 min

Lab File: VD063669.D

Acq: 19 Aug 2019 20:28

Instrument :

MSVOA_D

ClientSampleId :

T8-A4-(0)RE

Tgt Ion: 41 Resp: 3248

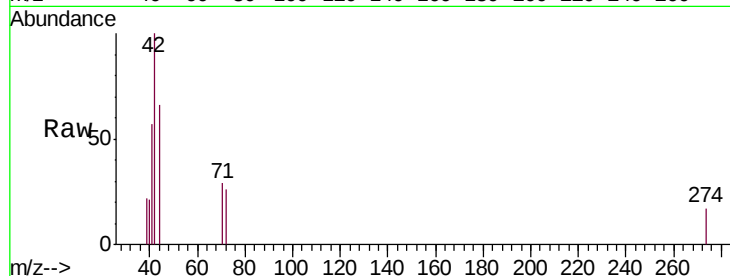
Ion Ratio Lower Upper

41 100

39 39.2 44.6 66.8#

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#

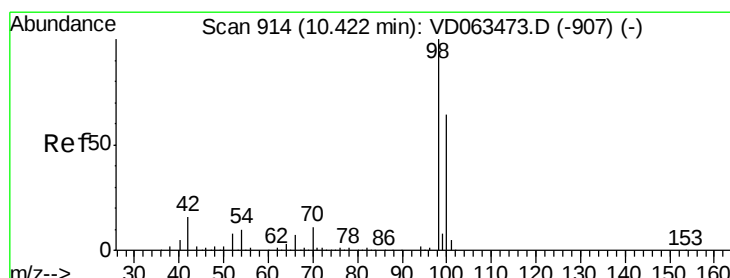
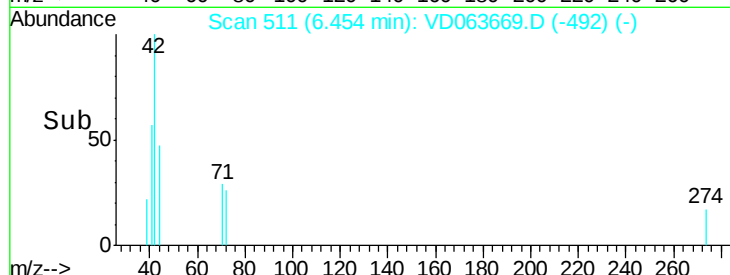
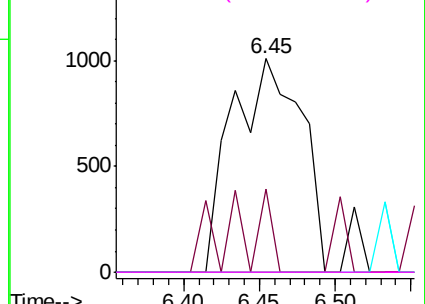


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#50

Toluene-d8

Concen: 42.736 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.02 min

Lab File: VD063669.D

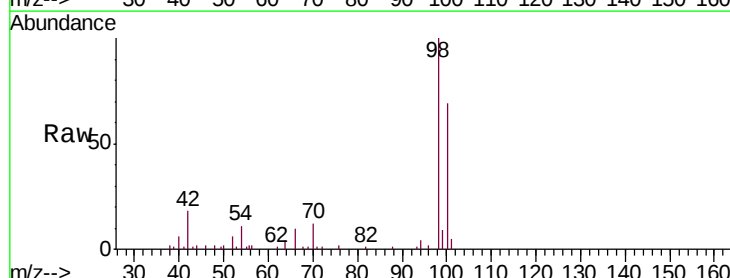
Acq: 19 Aug 2019 20:28

Tgt Ion: 98 Resp: 97079

Ion Ratio Lower Upper

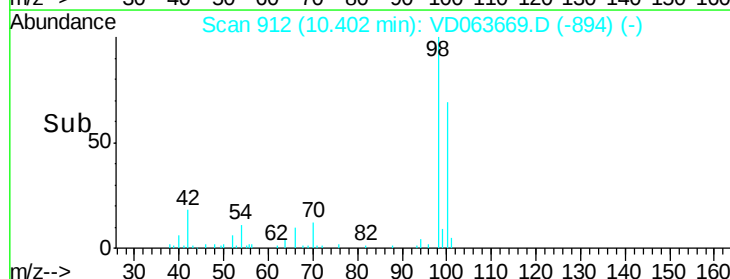
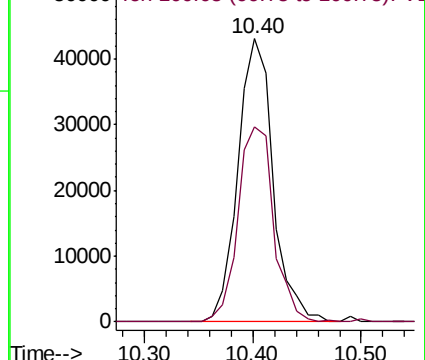
98 100

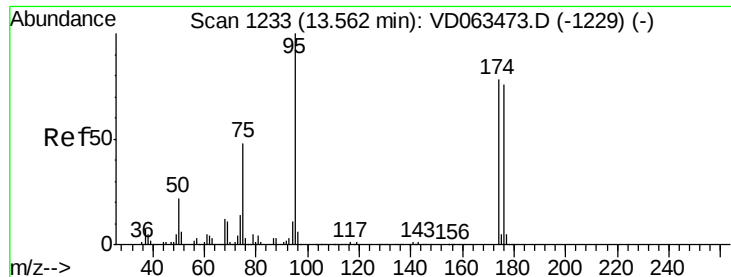
100 69.0 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#62

4-Bromofluorobenzene

Concen: 35.971 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD063669.D

Acq: 19 Aug 2019 20:28

Instrument :

MSVOA_D

ClientSampleId :

T8-A4-(0)RE

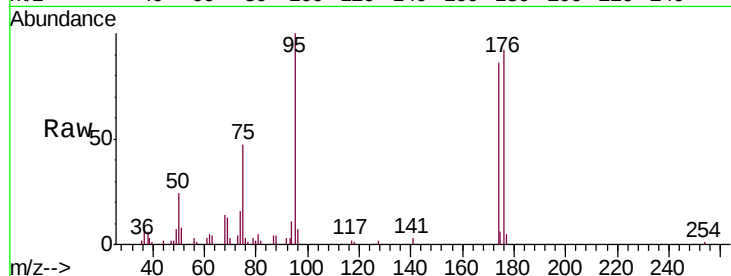
Tgt Ion: 95 Resp: 37035

Ion Ratio Lower Upper

95 100

174 86.0 0.0 155.4

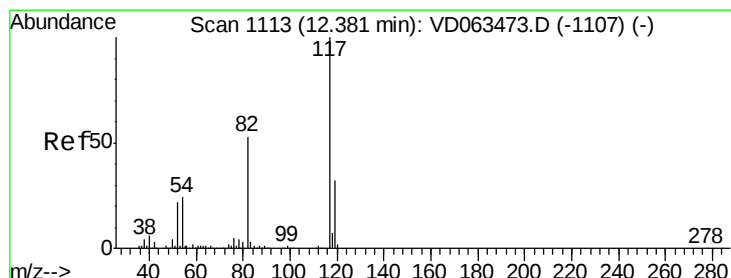
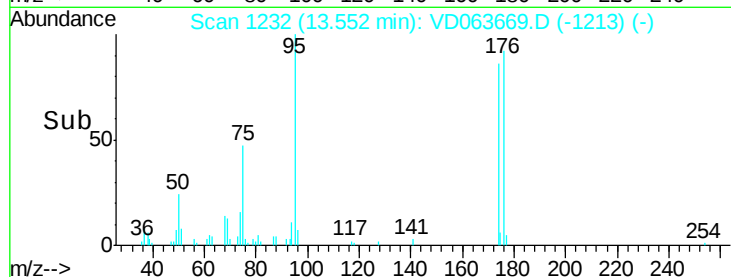
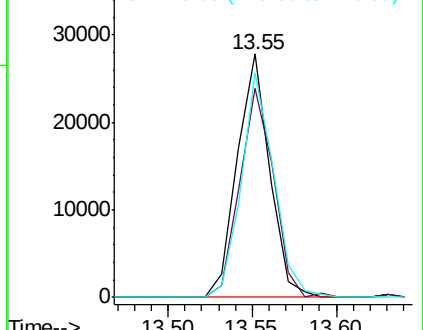
176 92.4 0.0 152.4



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VD063669.D

Acq: 19 Aug 2019 20:28

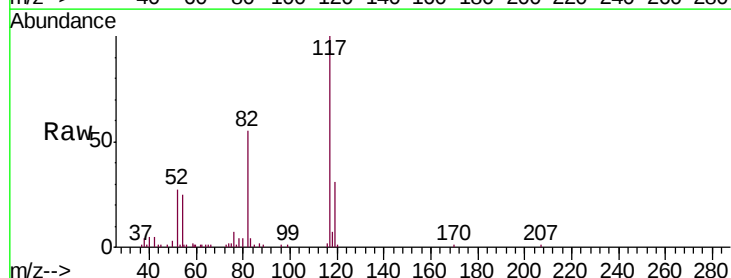
Tgt Ion: 117 Resp: 90392

Ion Ratio Lower Upper

117 100

82 55.2 42.0 63.0

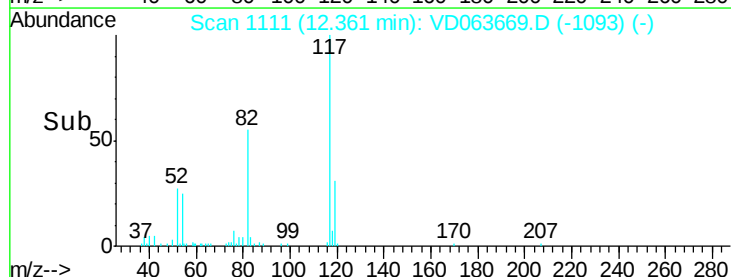
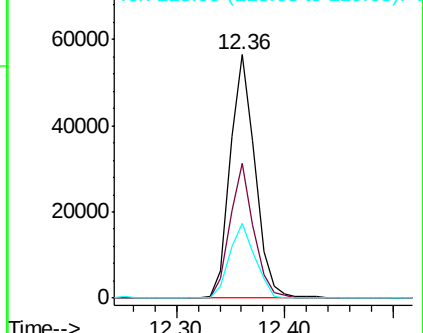
119 30.8 25.4 38.0

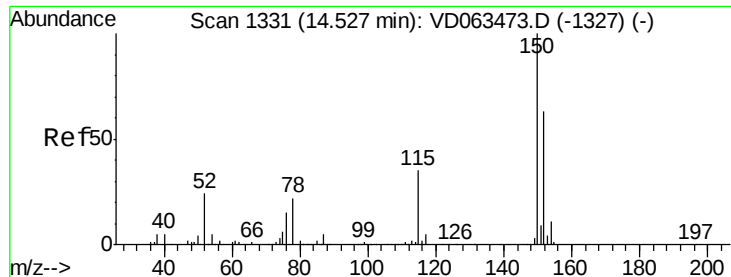


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD063669.D

Acq: 19 Aug 2019 20:28

Instrument :

MSVOA_D

ClientSampleId :

T8-A4-(0)RE

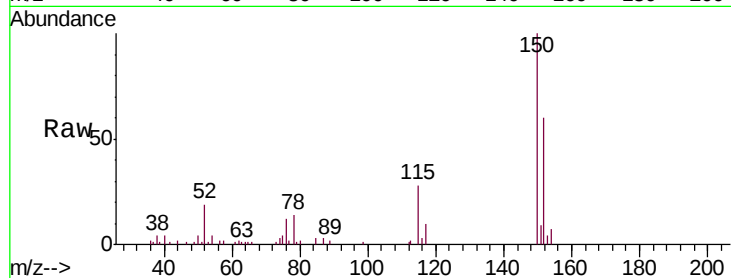
Tgt Ion:152 Resp: 33465

Ion Ratio Lower Upper

152 100

115 47.1 30.9 92.7

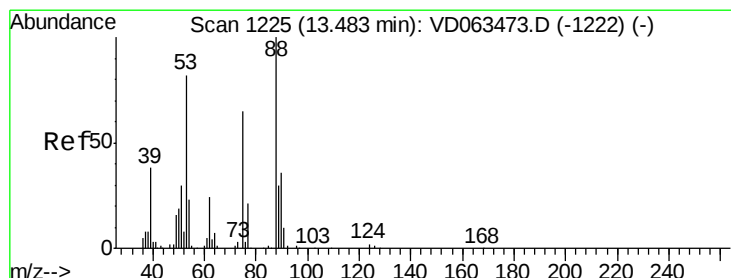
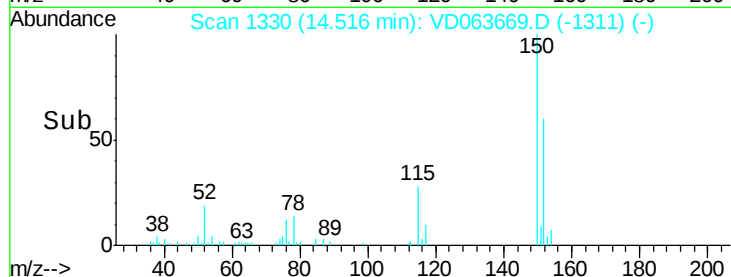
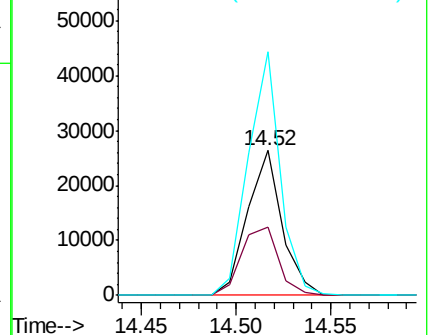
150 167.9 0.0 318.6



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: 168.425 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063669.D

Acq: 19 Aug 2019 20:28

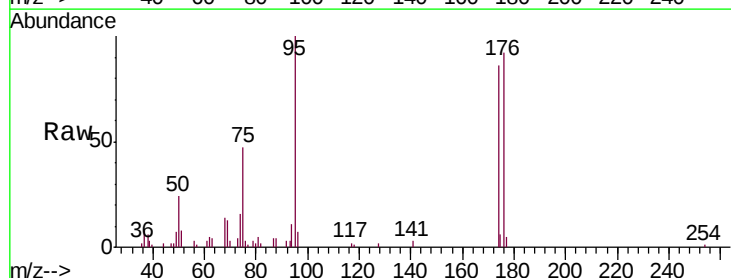
Tgt Ion: 75 Resp: 17386

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 53.00 (52.70 to 53.70): V

Ion 89.00 (88.70 to 89.70): V

