

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082119\
 Data File : VD063712.D
 Acq On : 21 Aug 2019 14:53
 Operator : JC/SY
 Sample : K4388-20
 Misc : 4.51g/5ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T6-E4-(0)

Quant Time: Aug 22 01:26:27 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	7.05	168	393543	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	613440	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	415328	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	143593	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	382966	91.04	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	182.08%	
35) Dibromofluoromethane	6.93	113	350939	67.93	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	135.86%	
50) Toluene-d8	10.41	98	512832	45.15	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	90.30%	
62) 4-Bromofluorobenzene	13.55	95	173452	33.69	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	67.38%	

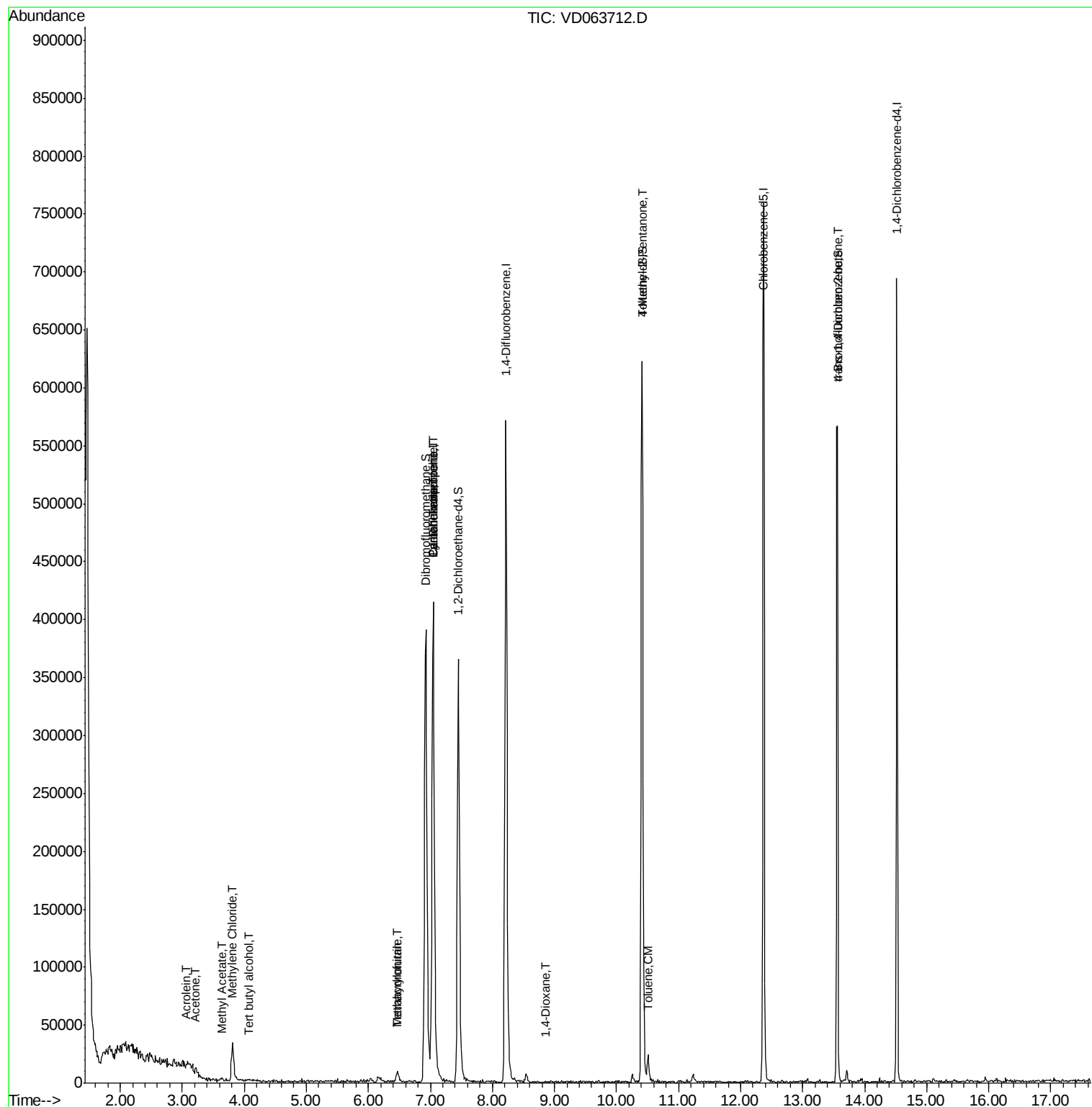
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.06	59	1279	6.984	ug/l #	71
13) Acrolein	3.06	56	613	3.401	ug/l #	46
16) Acetone	3.22	43	20287	23.724	ug/l #	46
18) Methyl Acetate	3.64	43	4427	2.733	ug/l #	57
20) Methylene Chloride	3.81	84	19136	5.175	ug/l #	89
29) Tetrahydrofuran	6.46	42	8026	20.394	ug/l #	83
31) Cyclohexane	7.05	56	8465	2.229	ug/l #	17
36) 1,1-Dichloropropene	7.05	75	30242	5.577	ug/l #	49
38) Carbon Tetrachloride	7.05	117	39312	4.810	ug/l #	19
41) Methacrylonitrile	6.46	41	6408	2.240	ug/l #	77
49) 1,4-Dioxane	8.85	88	188	34.688	ug/l #	1
51) 4-Methyl-2-Pentanone	10.41	43	2935	1.409	ug/l #	1
52) Toluene	10.51	92	11840	1.540	ug/l	94
81) trans-1,4-Dichloro-2-buten	13.55	75	72483	163.644	ug/l #	1

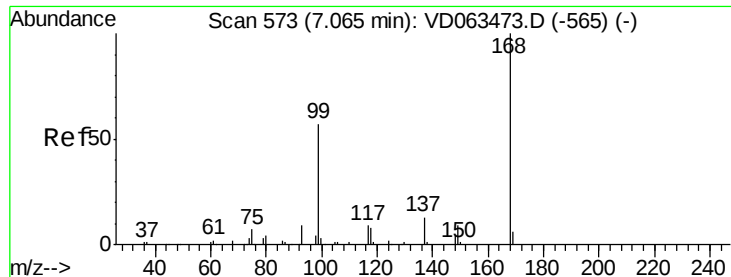
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD082119\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.02 min

Lab File: VD063712.D

Acq: 21 Aug 2019 14:53

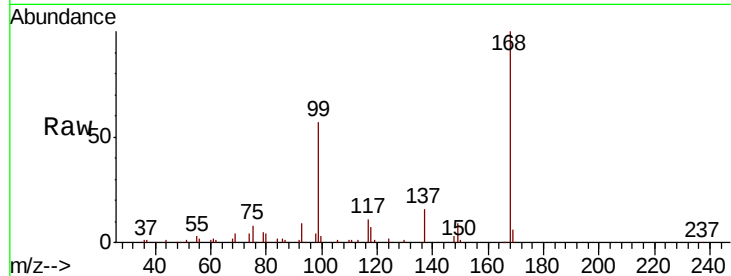
Instrument :
MSVOA_D
ClientSampleId :
T6-E4-(0)

Tgt Ion:168 Resp: 393543

Ion Ratio Lower Upper

168 100

99 56.8 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

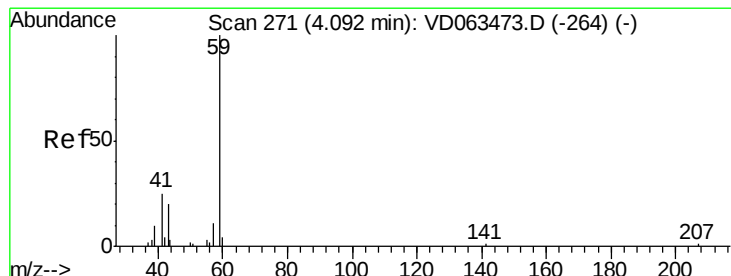
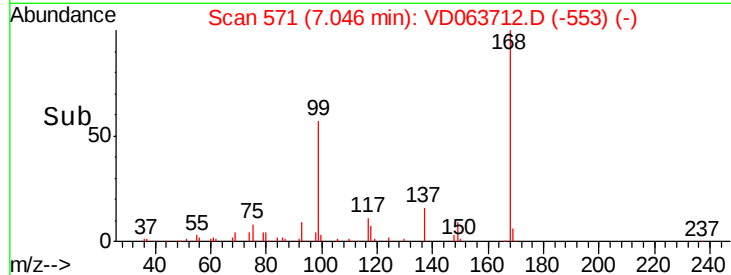
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 6.984 ug/l

RT: 4.06 min Scan# 268

Delta R.T. -0.03 min

Lab File: VD063712.D

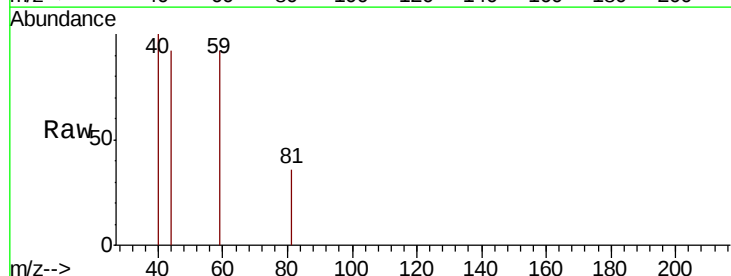
Acq: 21 Aug 2019 14:53

Tgt Ion: 59 Resp: 1279

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

4.06

800

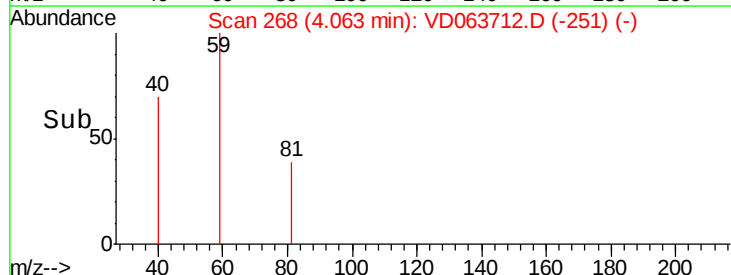
600

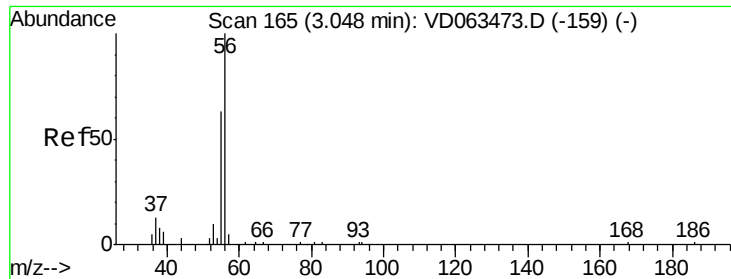
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200

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Time-->

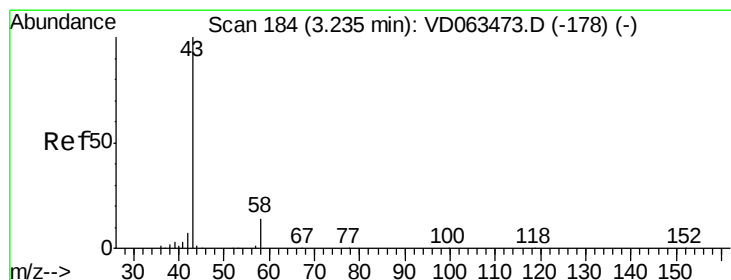
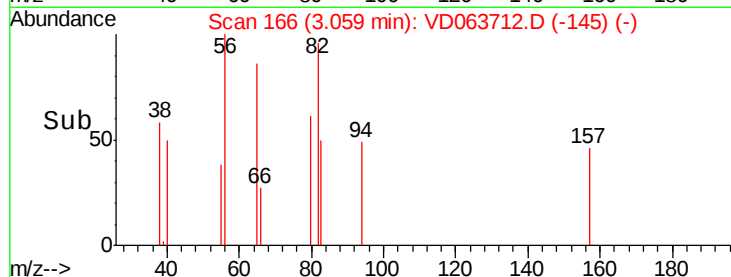
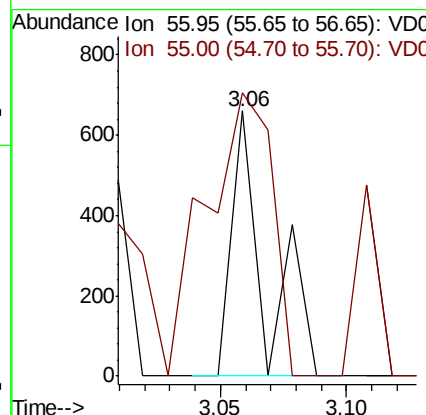
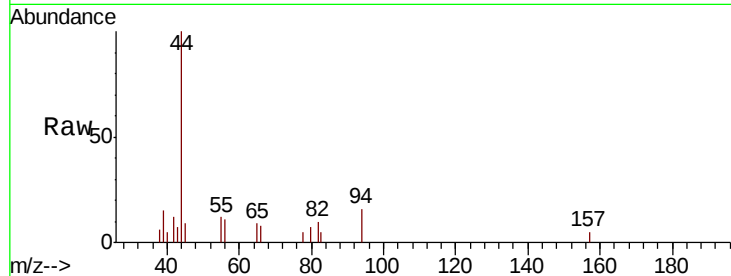




#13
Acrolein
Concen: 3.401 ug/l
RT: 3.06 min Scan# 166
Delta R.T. 0.01 min
Lab File: VD063712.D
Acq: 21 Aug 2019 14:53

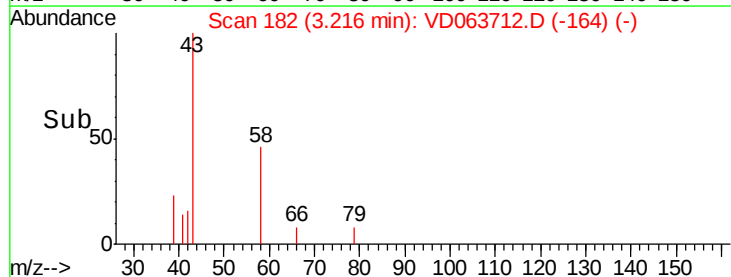
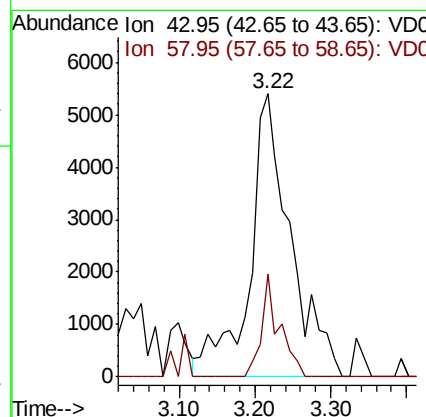
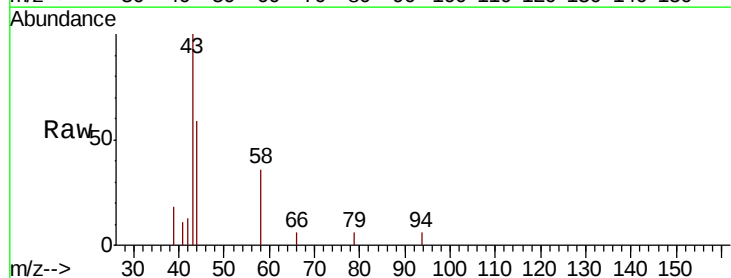
Instrument :
MSVOA_D
ClientSampleId :
T6-E4-(0)

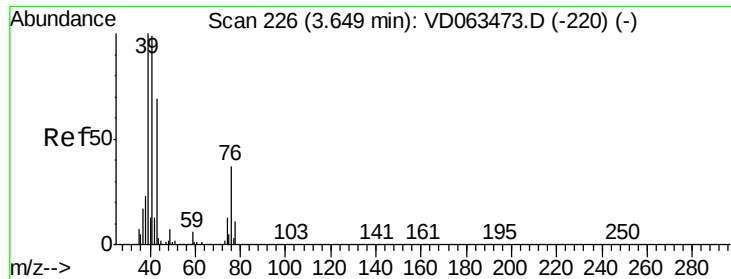
Tgt Ion: 56 Resp: 613
Ion Ratio Lower Upper
56 100
55 106.7 51.3 76.9#



#16
Acetone
Concen: 23.724 ug/l
RT: 3.22 min Scan# 182
Delta R.T. -0.02 min
Lab File: VD063712.D
Acq: 21 Aug 2019 14:53

Tgt Ion: 43 Resp: 20287
Ion Ratio Lower Upper
43 100
58 36.2 11.4 17.2#

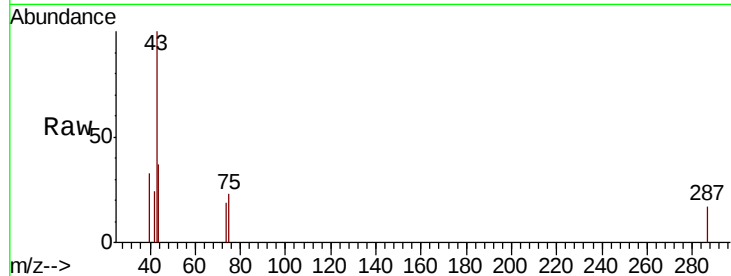




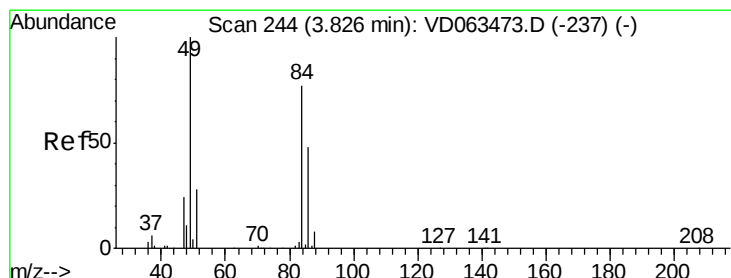
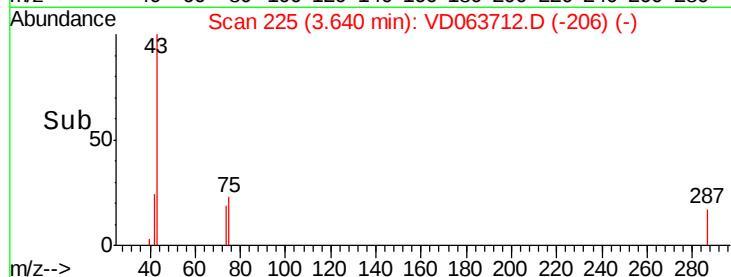
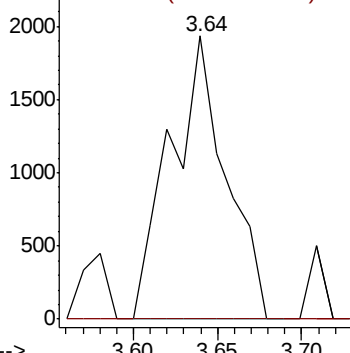
#18
Methyl Acetate
Concen: 2.733 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.01 min
Lab File: VD063712.D
Acq: 21 Aug 2019 14:53

Instrument :
MSVOA_D
ClientSampleId :
T6-E4-(0)

Tgt Ion: 43 Resp: 4427
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#

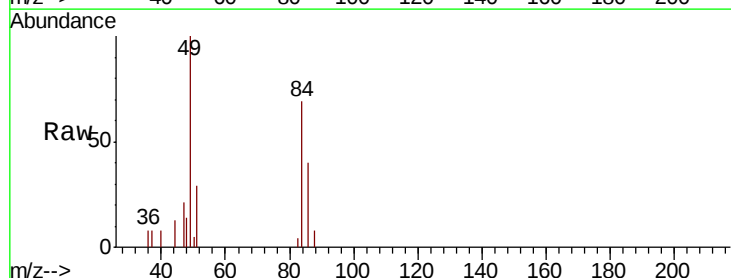


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC

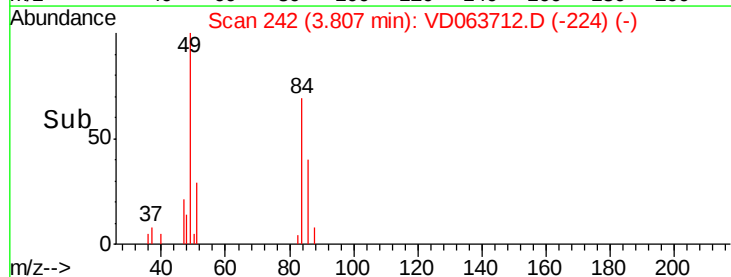
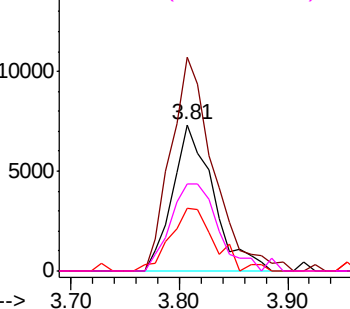


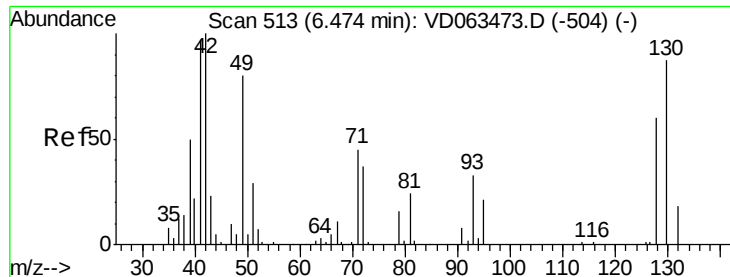
#20
Methylene Chloride
Concen: 5.175 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.02 min
Lab File: VD063712.D
Acq: 21 Aug 2019 14:53

Tgt Ion: 84 Resp: 19136
Ion Ratio Lower Upper
84 100
49 145.7 103.4 155.2
51 42.8 28.5 42.7#
86 59.0 49.4 74.2



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

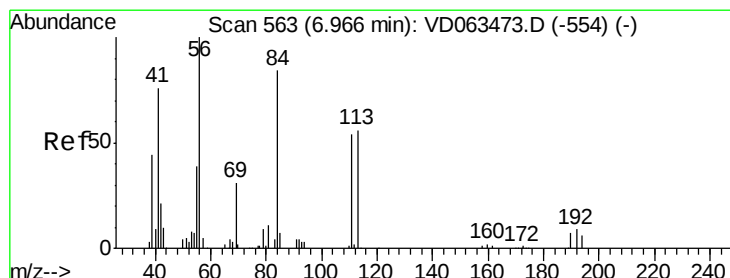
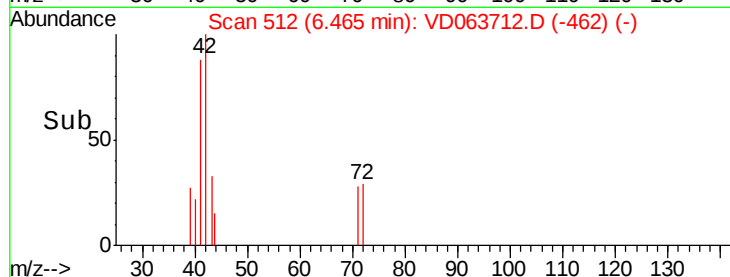
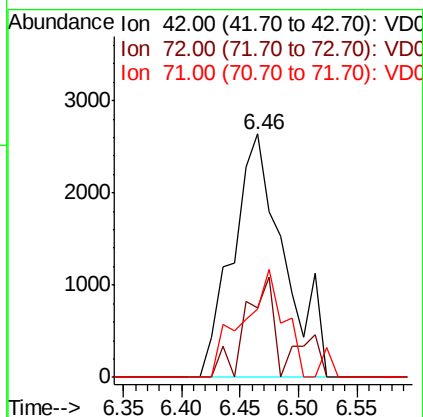
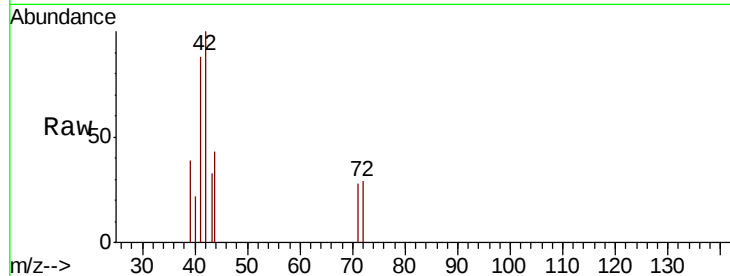




#29
Tetrahydrofuran
Concen: 20.394 ug/l
RT: 6.46 min Scan# 512
Delta R.T. -0.01 min
Lab File: VD063712.D
Acq: 21 Aug 2019 14:53

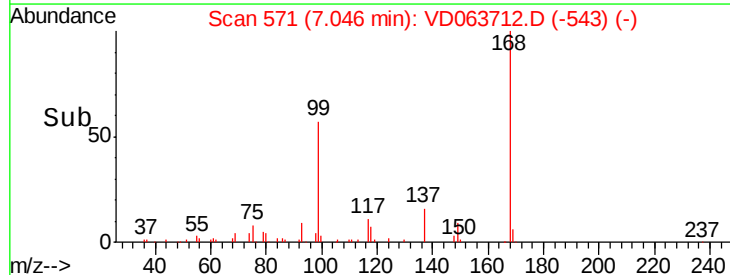
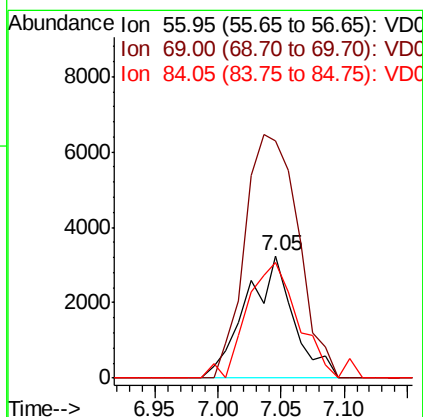
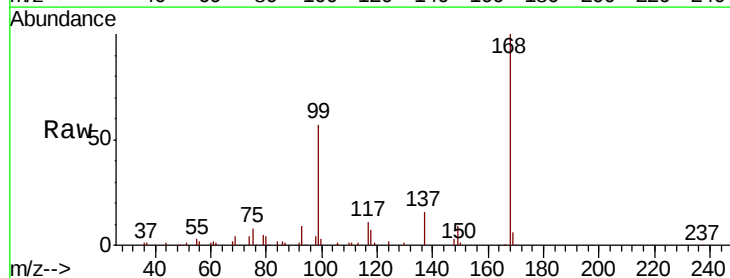
Instrument :
MSVOA_D
ClientSampleId :
T6-E4-(0)

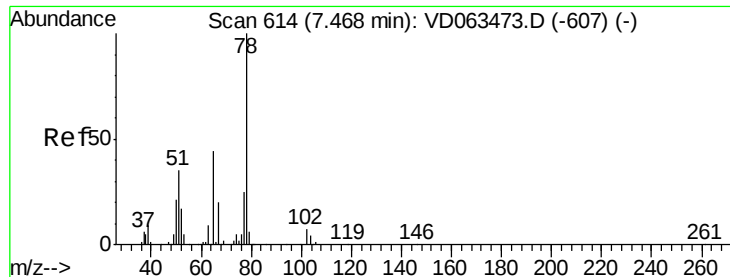
Tgt Ion: 42 Resp: 8026
Ion Ratio Lower Upper
42 100
72 24.5 31.5 47.3#
71 35.7 33.8 50.8



#31
Cyclohexane
Concen: 2.229 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.08 min
Lab File: VD063712.D
Acq: 21 Aug 2019 14:53

Tgt Ion: 56 Resp: 8465
Ion Ratio Lower Upper
56 100
69 193.8 25.0 37.6#
84 93.9 69.7 104.5





#33

1,2-Dichloroethane-d4

Concen: 91.038 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.02 min

Lab File: VD063712.D

Acq: 21 Aug 2019 14:53

Instrument :

MSVOA_D

ClientSampleId :

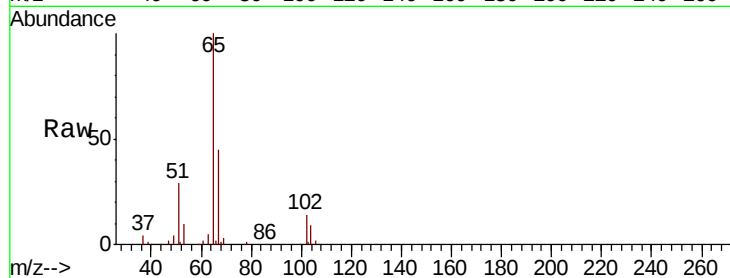
T6-E4-(0)

Tgt Ion: 65 Resp: 382966

Ion Ratio Lower Upper

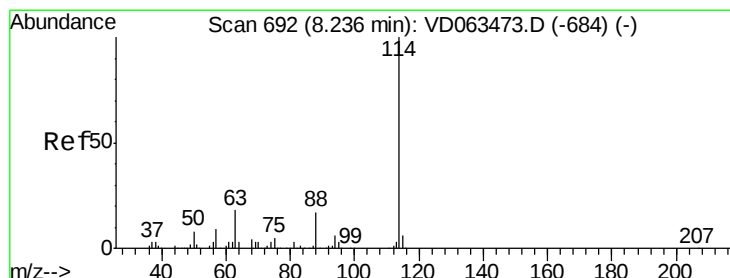
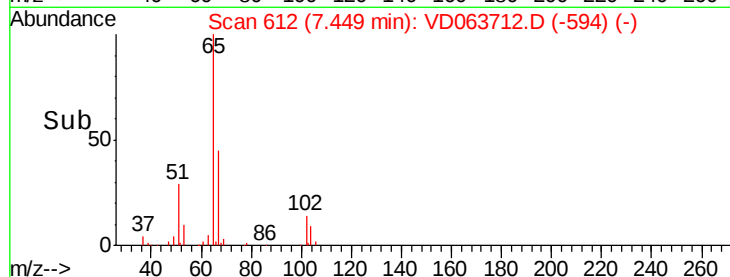
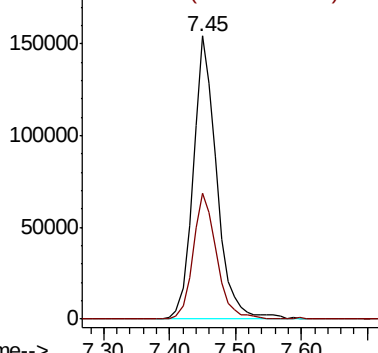
65 100

67 44.5 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: 8.22 min Scan# 690

Delta R.T. -0.02 min

Lab File: VD063712.D

Acq: 21 Aug 2019 14:53

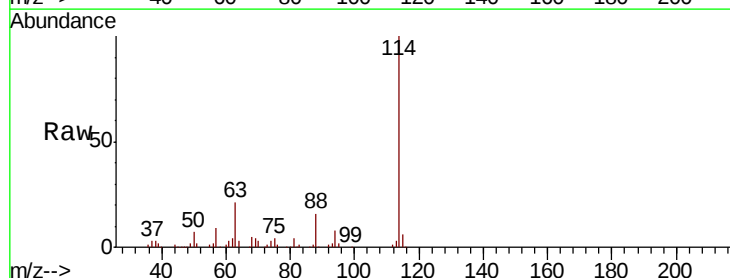
Tgt Ion: 114 Resp: 613440

Ion Ratio Lower Upper

114 100

63 21.2 0.0 36.2

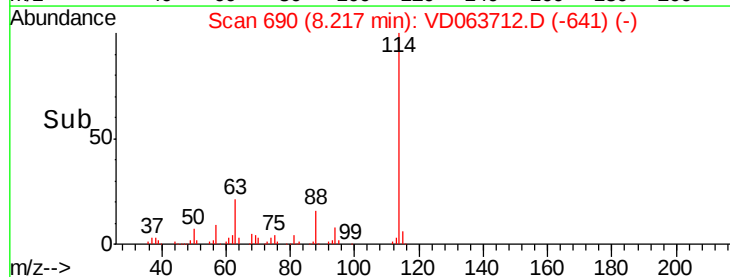
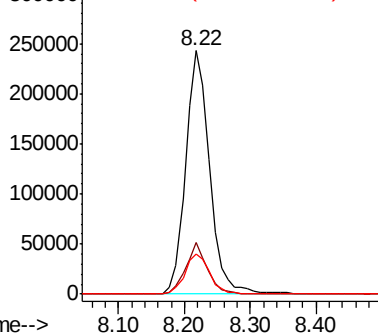
88 16.5 0.0 35.0

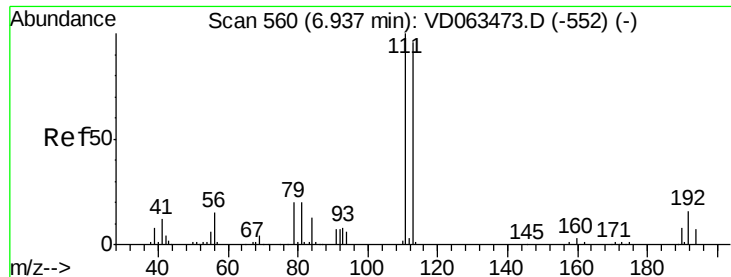


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

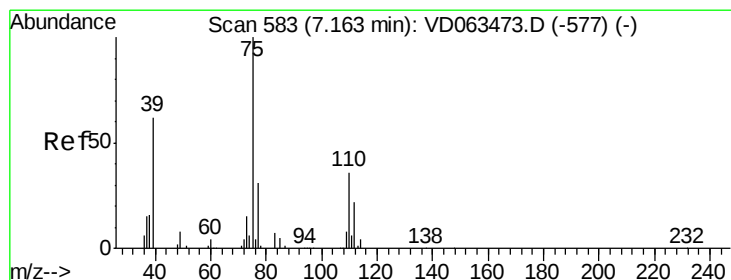
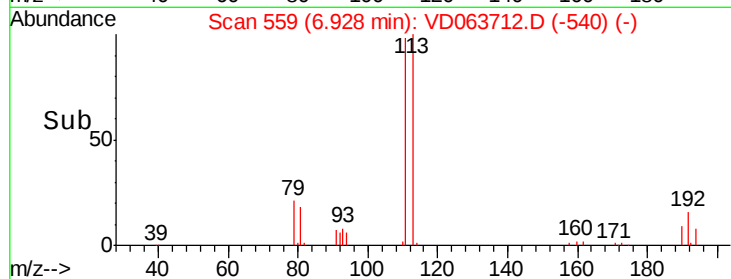
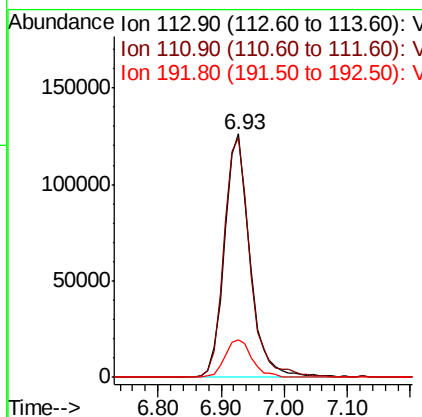
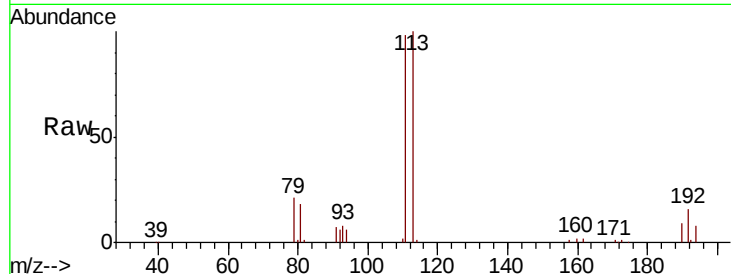




#35
 Dibromofluoromethane
 Concen: 67.927 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. -0.01 min
 Lab File: VD063712.D
 Acq: 21 Aug 2019 14:53

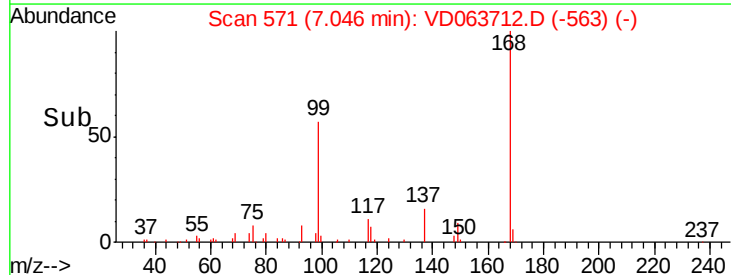
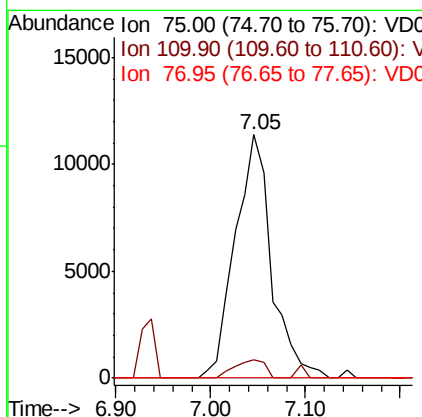
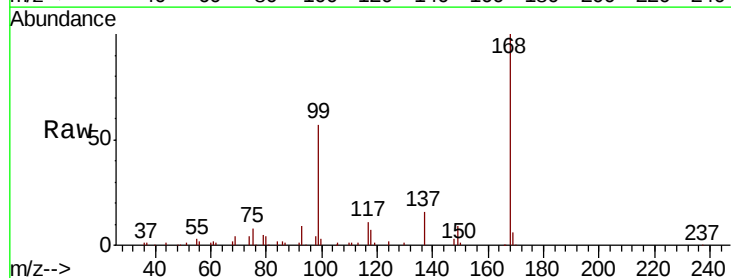
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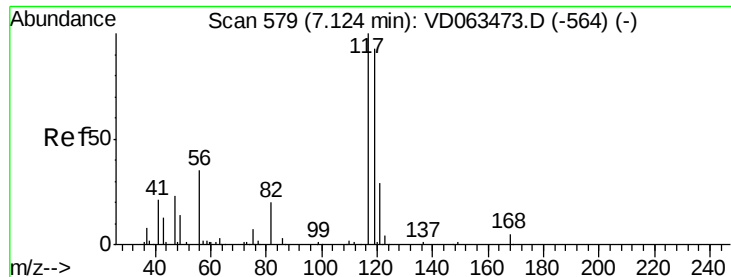
Tgt Ion	Ratio	Resp	Lower	Upper
113	100			
111	98.2	83.1	124.7	
192	15.5	13.1	19.7	



#36
 1,1-Dichloropropene
 Concen: 5.577 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.12 min
 Lab File: VD063712.D
 Acq: 21 Aug 2019 14:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	7.6	17.6	52.8#	
77	0.0	24.3	36.5#	





#38

Carbon Tetrachloride

Concen: 4.810 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063712.D

Acq: 21 Aug 2019 14:53

Instrument :

MSVOA_D

ClientSampleId :

T6-E4-(0)

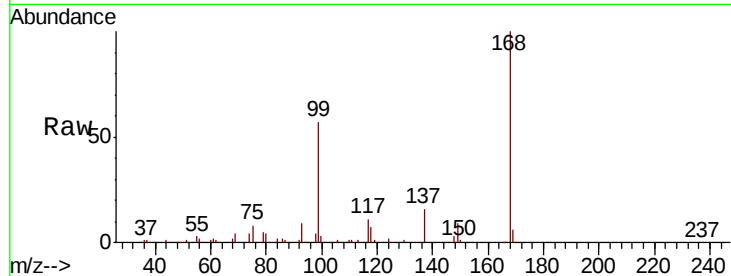
Tgt Ion:117 Resp: 39312

Ion Ratio Lower Upper

117 100

119 6.6 74.2 111.2#

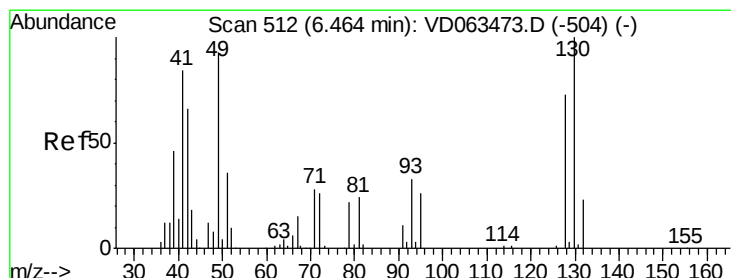
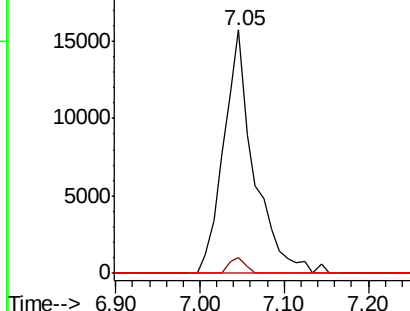
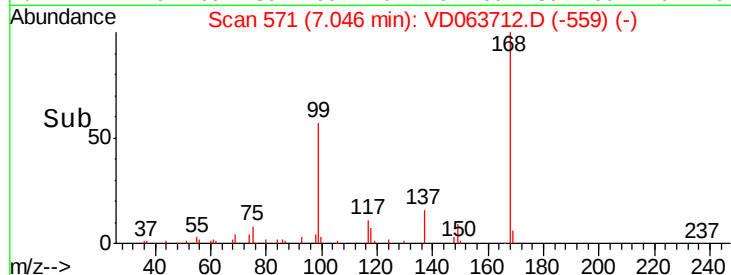
121 0.0 23.1 34.7#



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



#41

Methacrylonitrile

Concen: 2.240 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.00 min

Lab File: VD063712.D

Acq: 21 Aug 2019 14:53

Tgt Ion: 41 Resp: 6408

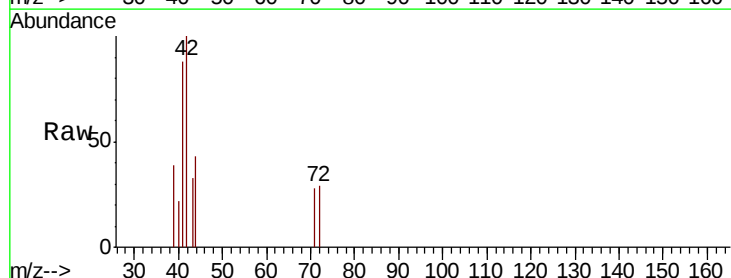
Ion Ratio Lower Upper

41 100

39 44.3 44.6 66.8#

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#

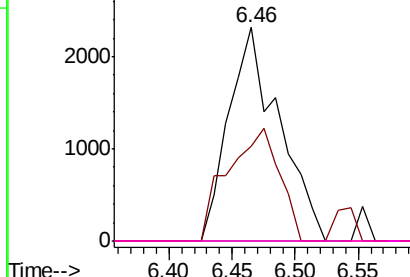
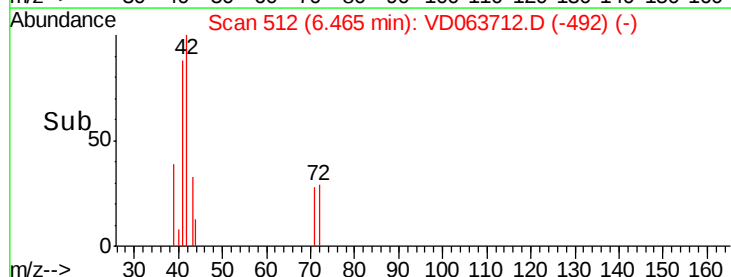


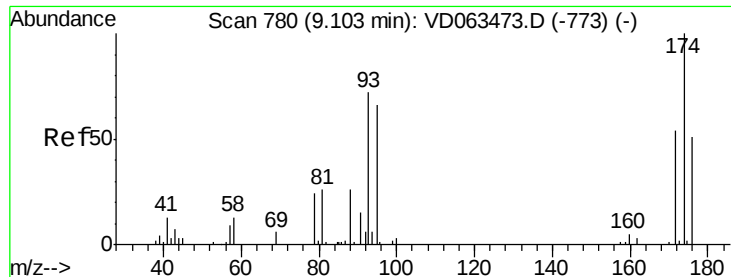
Abundance Ion 40.95 (40.65 to 41.65): VDC

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

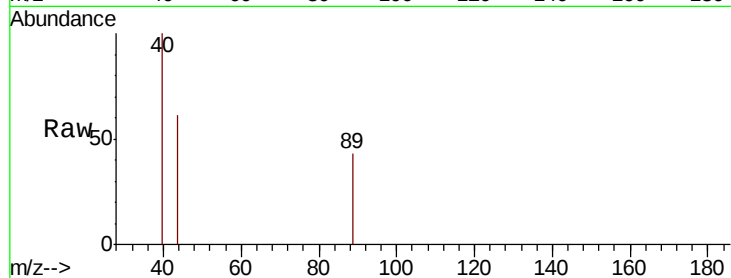




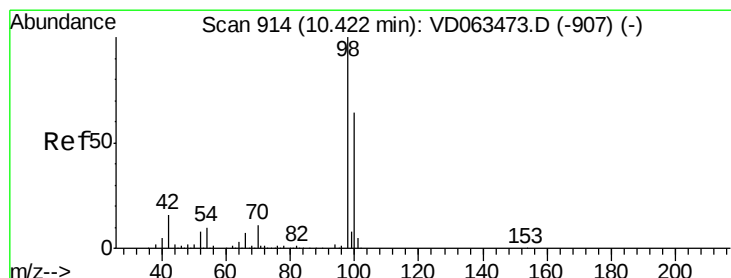
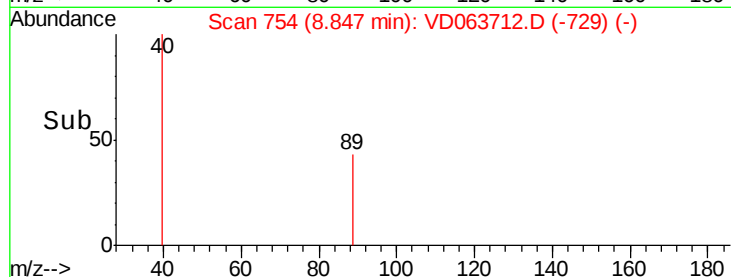
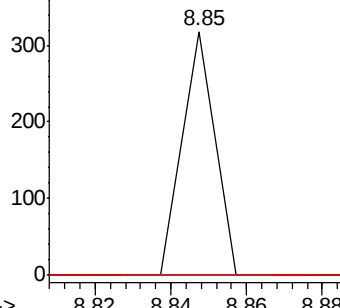
#49
 1,4-Dioxane
 Concen: 34.688 ug/l
 RT: 8.85 min Scan# 754
 Delta R.T. -0.25 min
 Lab File: VD063712.D
 Acq: 21 Aug 2019 14:53

Instrument :
 MSVOA_D
 ClientSampleId :
 T6-E4-(0)

Tgt Ion: 88 Resp: 188
 Ion Ratio Lower Upper
 88 100
 43 142.1 22.9 34.3#
 58 0.0 40.1 60.1#

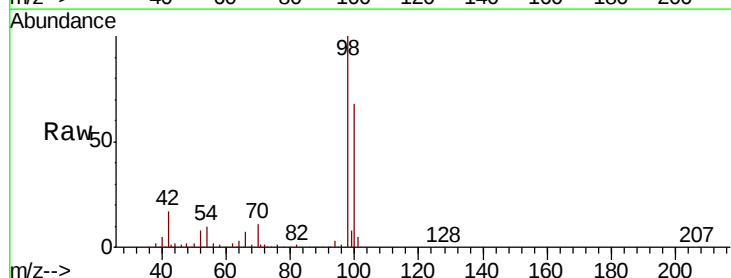


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.05 (42.75 to 43.75): VDC
 Ion 57.95 (57.65 to 58.65): VDC

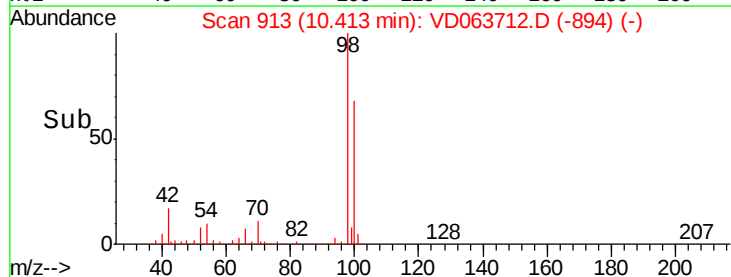
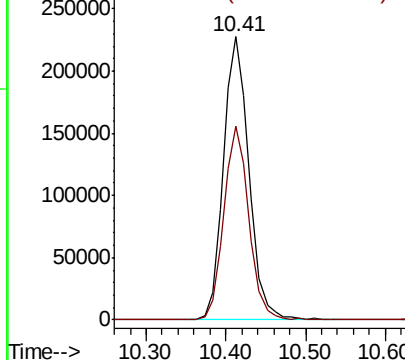


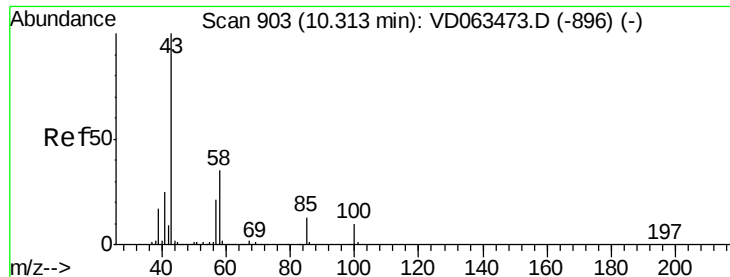
#50
 Toluene-d8
 Concen: 45.149 ug/l
 RT: 10.41 min Scan# 913
 Delta R.T. -0.01 min
 Lab File: VD063712.D
 Acq: 21 Aug 2019 14:53

Tgt Ion: 98 Resp: 512832
 Ion Ratio Lower Upper
 98 100
 100 68.3 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC
 Ion 100.05 (99.75 to 100.75): VDC

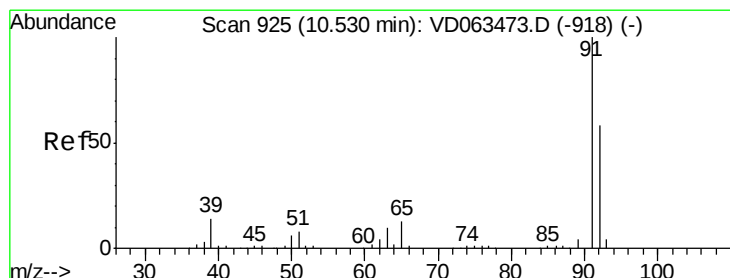
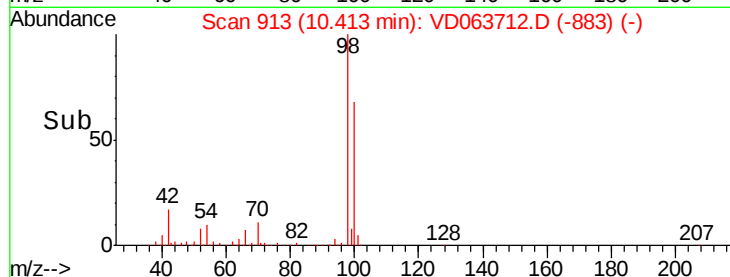
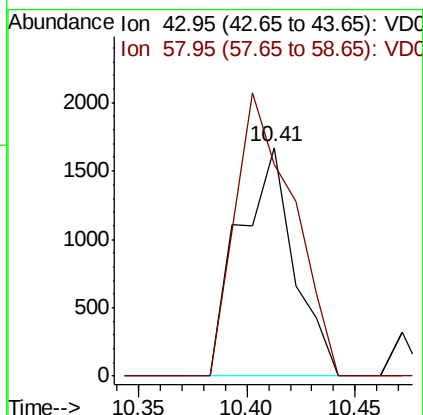
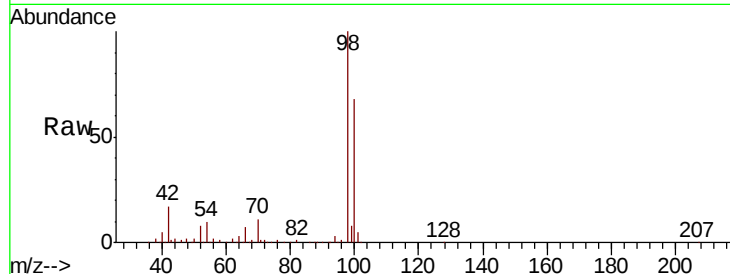




#51
 4-Methyl-2-Pentanone
 Concen: 1.409 ug/l
 RT: 10.41 min Scan# 913
 Delta R.T. 0.10 min
 Lab File: VD063712.D
 Acq: 21 Aug 2019 14:53

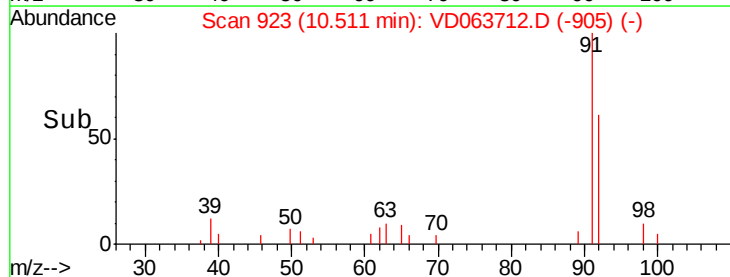
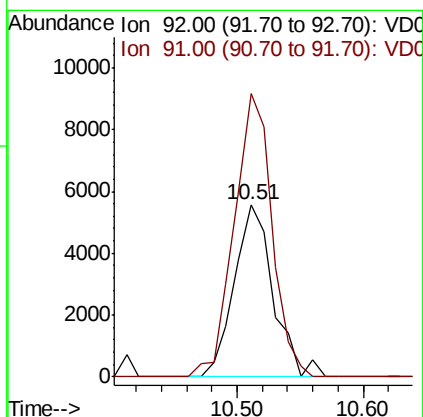
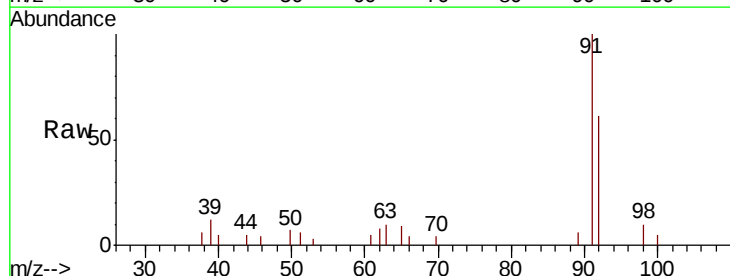
Instrument :
 MSVOA_D
 ClientSampleId :
 T6-E4-(0)

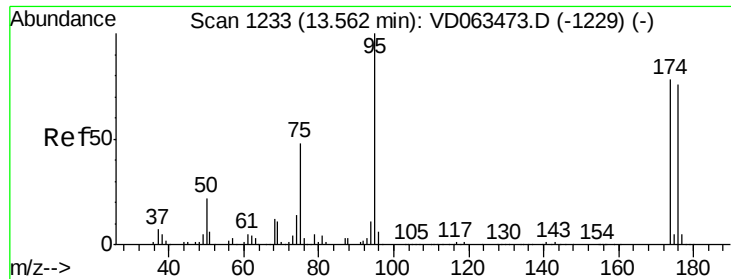
Tgt Ion: 43 Resp: 2935
 Ion Ratio Lower Upper
 43 100
 58 92.8 28.0 42.0#



#52
 Toluene
 Concen: 1.540 ug/l
 RT: 10.51 min Scan# 923
 Delta R.T. -0.02 min
 Lab File: VD063712.D
 Acq: 21 Aug 2019 14:53

Tgt Ion: 92 Resp: 11840
 Ion Ratio Lower Upper
 92 100
 91 164.4 137.9 206.9





#62

4-Bromofluorobenzene

Concen: 33.692 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD063712.D

Acq: 21 Aug 2019 14:53

Instrument :

MSVOA_D

ClientSampleId :

T6-E4-(0)

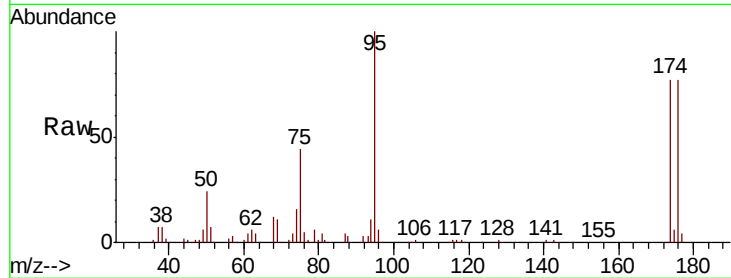
Tgt Ion: 95 Resp: 173452

Ion Ratio Lower Upper

95 100

174 77.2 0.0 155.4

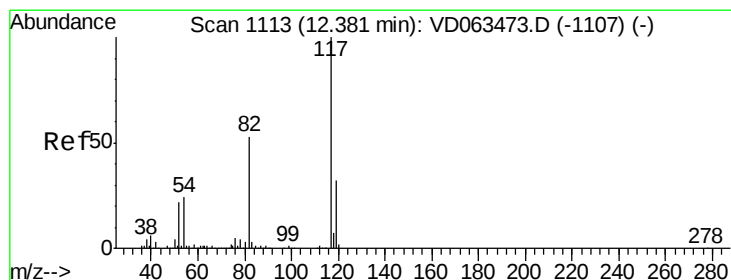
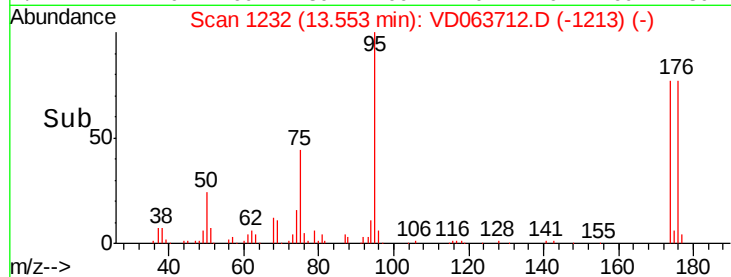
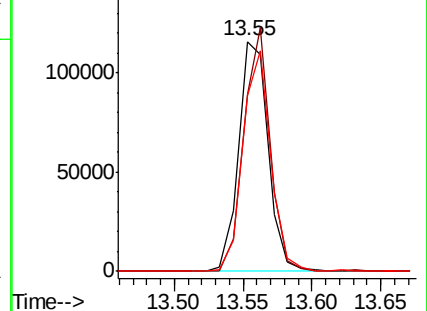
176 76.5 0.0 152.4



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: 12.37 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VD063712.D

Acq: 21 Aug 2019 14:53

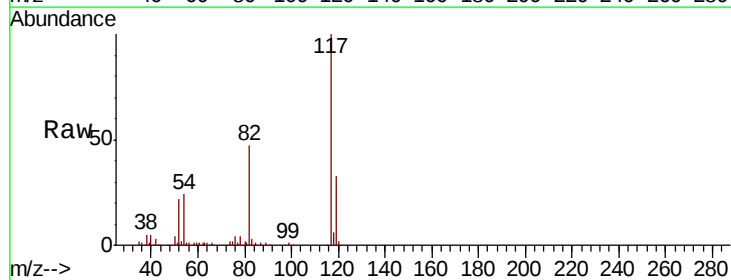
Tgt Ion: 117 Resp: 415328

Ion Ratio Lower Upper

117 100

82 47.5 42.0 63.0

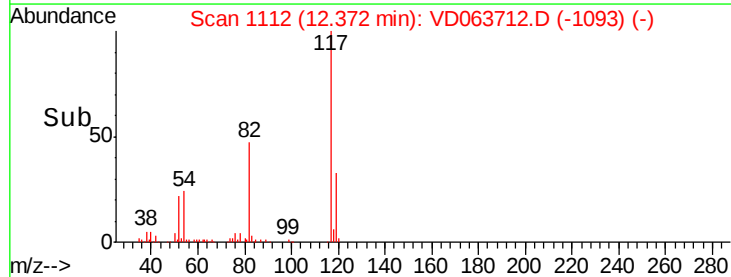
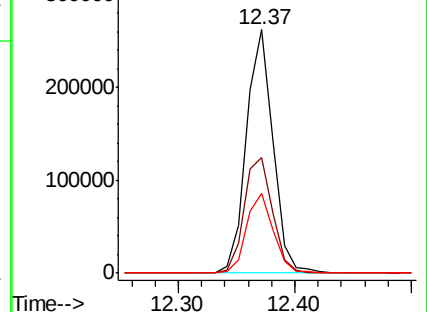
119 32.8 25.4 38.0

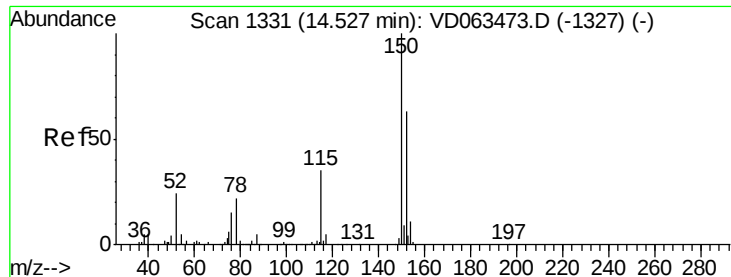


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD063712.D

Acq: 21 Aug 2019 14:53

Instrument :

MSVOA_D

ClientSampleId :

T6-E4-(0)

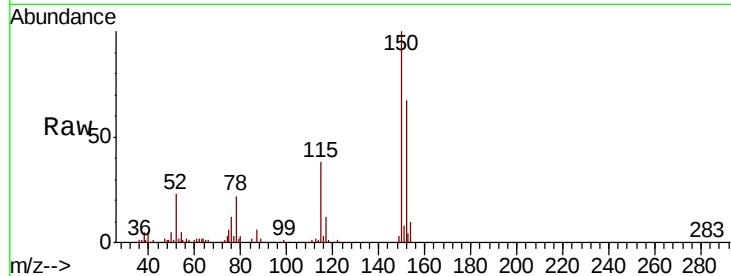
Tgt Ion:152 Resp: 143593

Ion Ratio Lower Upper

152 100

115 56.2 30.9 92.7

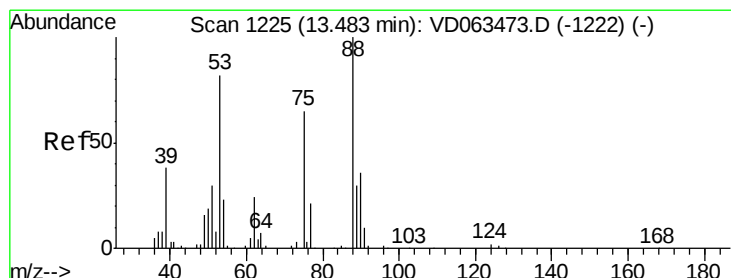
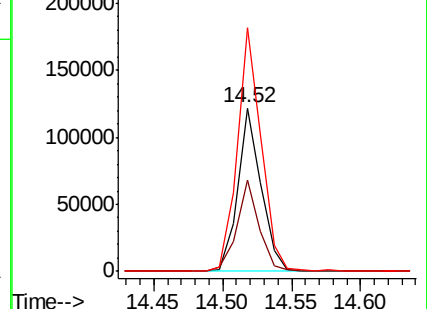
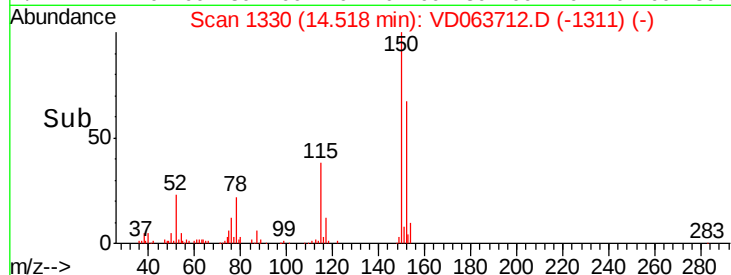
150 149.4 0.0 318.6



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: 163.644 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063712.D

Acq: 21 Aug 2019 14:53

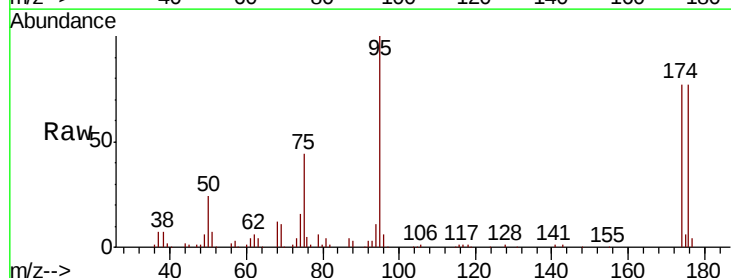
Tgt Ion: 75 Resp: 72483

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): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

