

Data File : VD060963.D
Acq On : 6 Mar 2019 14:14
Operator : VA/AP
Sample : K1728-02RE
Misc : 3.89g/5ml/MSVOA_D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RICH-REC-ROAD-STONE-11RE

Quant Time: Mar 07 05:49:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030119S.M
Quant Title : SW846 8260
QLast Update : Sat Mar 02 01:28:28 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	713959	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1184520	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.36	117	962465	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	421133	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	235130	39.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.68%	
35) Dibromofluoromethane	6.93	113	50900	5.36	ug/l	0.01
Spiked Amount	50.000		Recovery	=	10.72%	
50) Toluene-d8	10.40	98	840060	35.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.10%	
62) 4-Bromofluorobenzene	13.55	95	337262	37.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.54%	

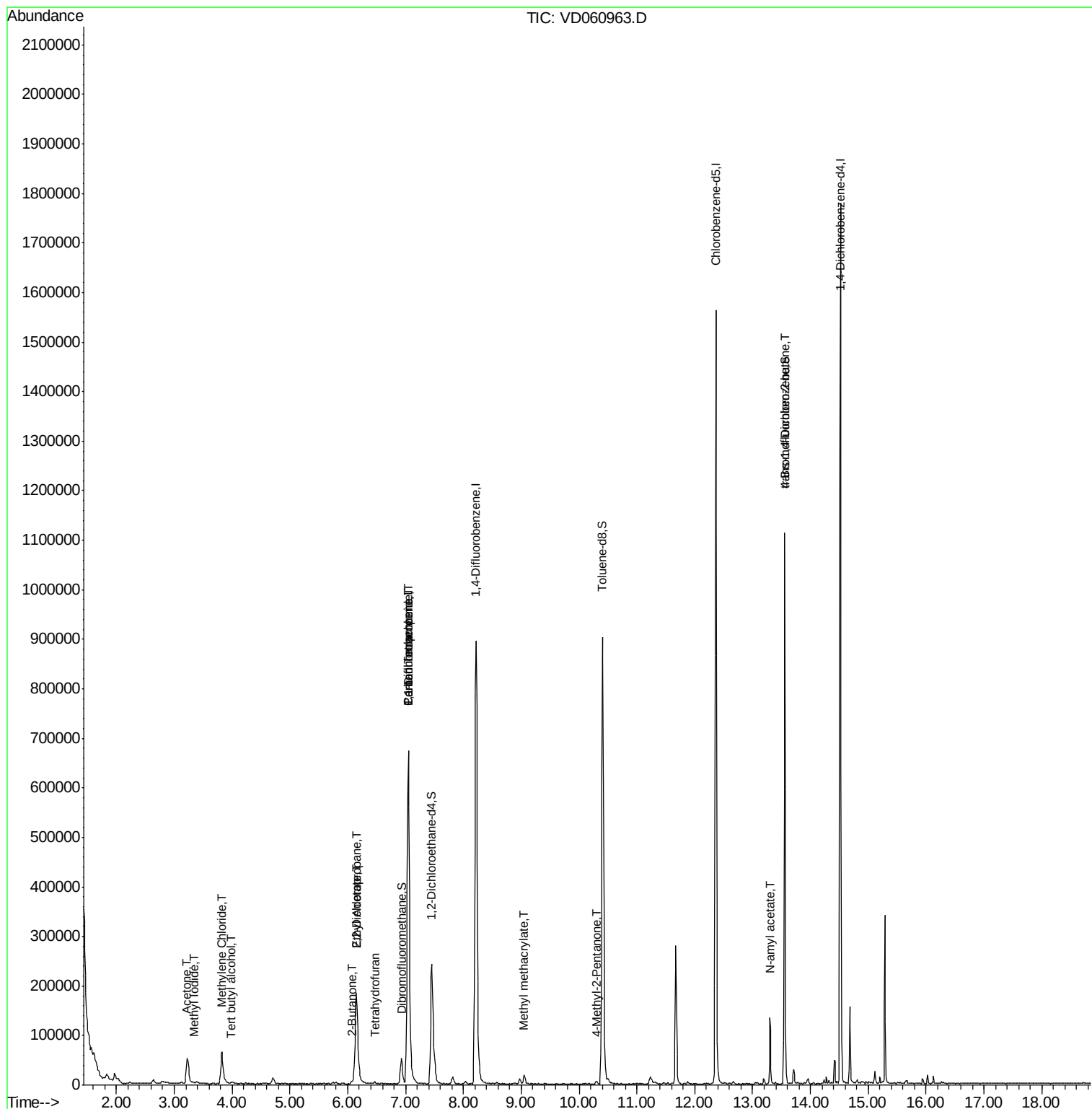
Target Compounds				Qvalue		
10) Methyl Iodide	3.34	142	3669	4.982	ug/l #	87
11) Tert butyl alcohol	3.98	59	3749	8.522	ug/l #	77
16) Acetone	3.22	43	113710	57.701	ug/l	96
20) Methylene Chloride	3.83	84	51370	2.007	ug/l	90
25) 2-Butanone	6.07	43	13499	5.522	ug/l #	88
26) 2,2-Dichloropropane	6.16	77	13300	1.183	ug/l #	48
29) Tetrahydrofuran	6.46	42	2909	2.312	ug/l #	83
36) 1,1-Dichloropropene	7.04	75	52288	4.801	ug/l #	46
37) Ethyl Acetate	6.14	43	12292	2.196	ug/l #	10
38) Carbon Tetrachloride	7.05	117	68430	5.848	ug/l #	15
48) Methyl methacrylate	9.05	41	5669	1.293	ug/l #	40
51) 4-Methyl-2-Pentanone	10.30	43	5946	1.251	ug/l #	87
74) N-amyl acetate	13.30	43	21640	2.226	ug/l #	3
81) trans-1,4-Dichloro-2-buten	13.55	75	119835	59.341	ug/l #	20
89) n-Butylbenzene	14.79	91	2084	Below Cal		88

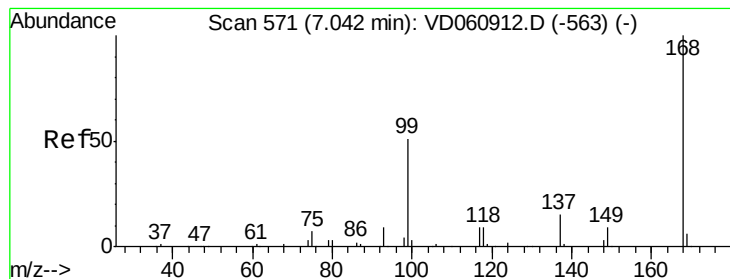
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD060963.D

Acq: 6 Mar 2019 14:14

Instrument :

MSVOA_D

ClientSampleId :

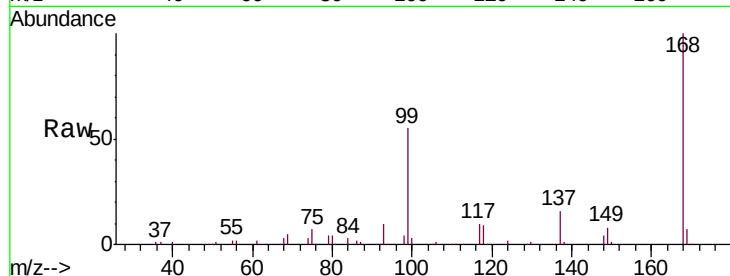
RICH-REC-ROAD-STONE-11RE

Tgt Ion:168 Resp: 713959

Ion Ratio Lower Upper

168 100

99 55.3 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.05

250000

200000

150000

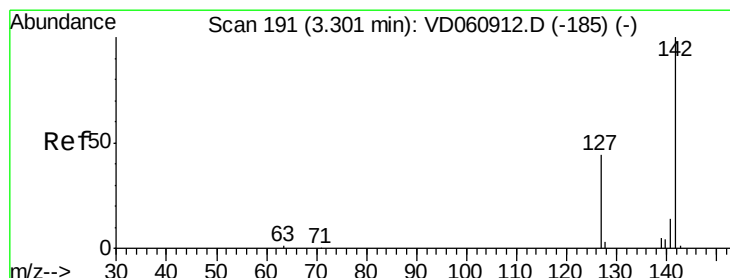
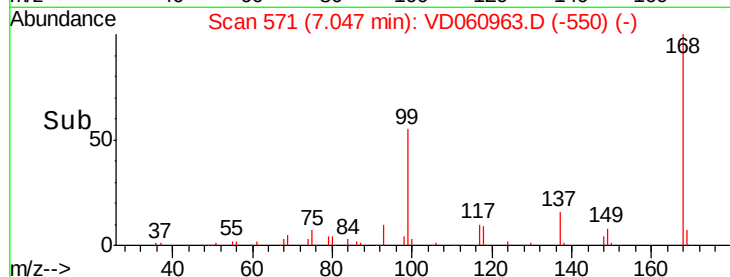
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#10

Methyl Iodide

Concen: 4.982 ug/l

RT: 3.34 min Scan# 194

Delta R.T. 0.04 min

Lab File: VD060963.D

Acq: 6 Mar 2019 14:14

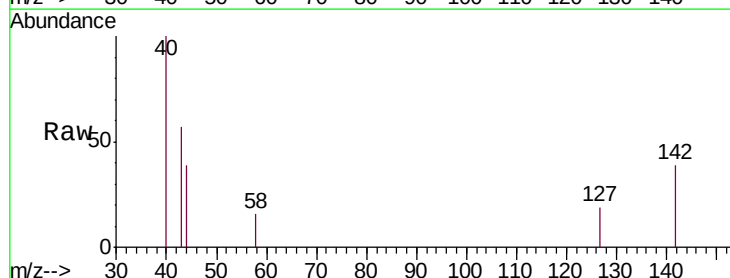
Tgt Ion:142 Resp: 3669

Ion Ratio Lower Upper

142 100

127 48.2 35.0 52.6

141 0.0 11.0 16.4#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.34

1200

1000

800

600

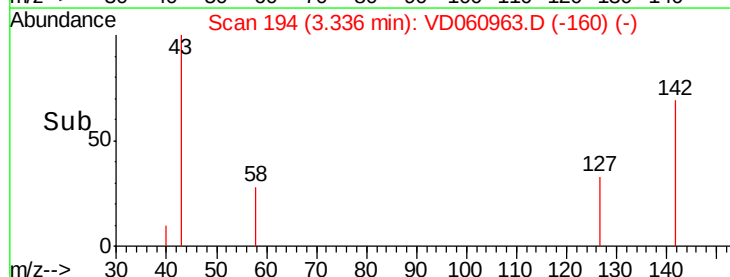
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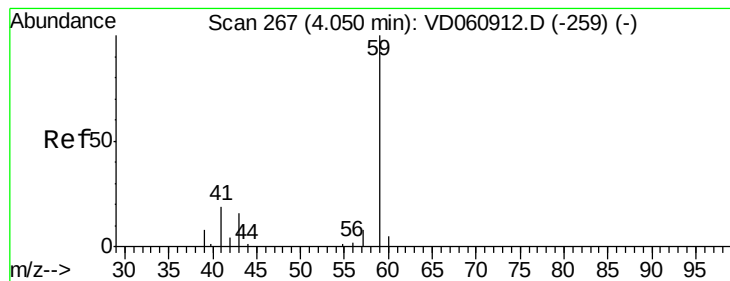
200

0

3.25 3.30 3.35 3.40

Time-->



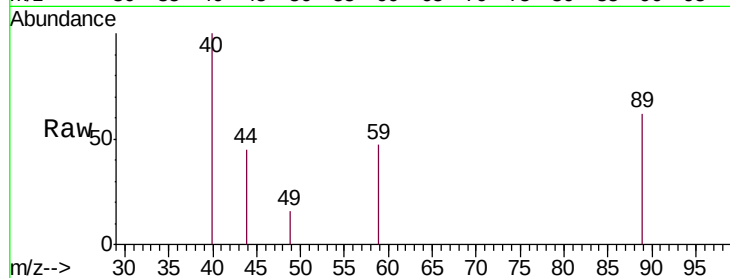


#11

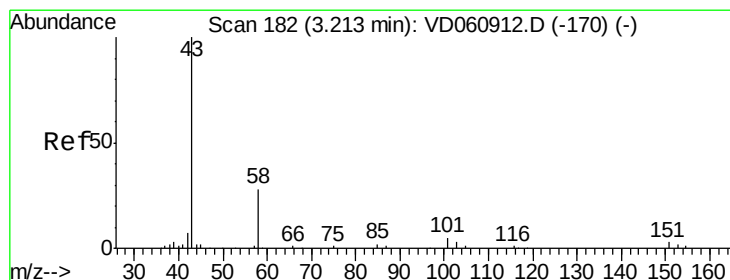
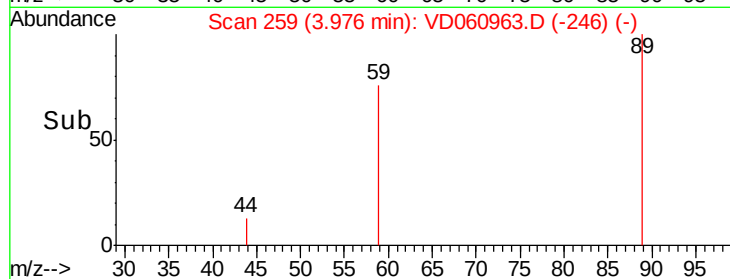
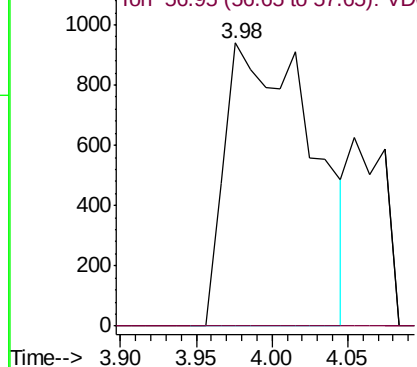
Tert butyl alcohol
 Concen: 8.522 ug/l
 RT: 3.98 min Scan# 259
 Delta R.T. -0.07 min
 Lab File: VD060963.D
 Acq: 6 Mar 2019 14:14

Instrument :
 MSVOA_D
 ClientSampleId :
 RICH-REC-ROAD-STONE-11RE

Tgt Ion: 59 Resp: 3749
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.5 9.7#



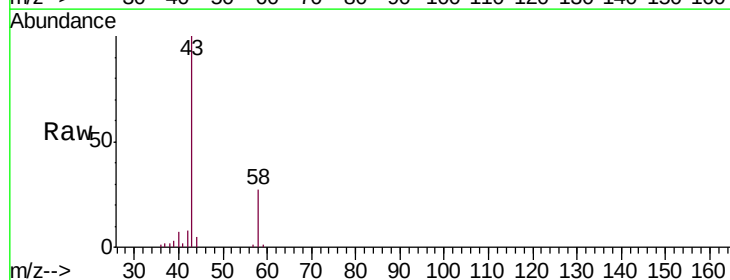
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



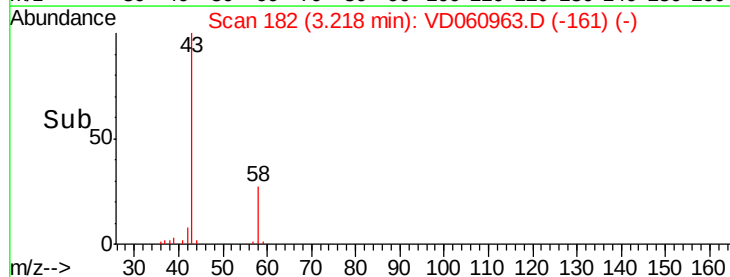
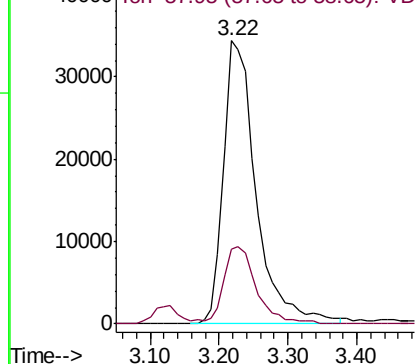
#16

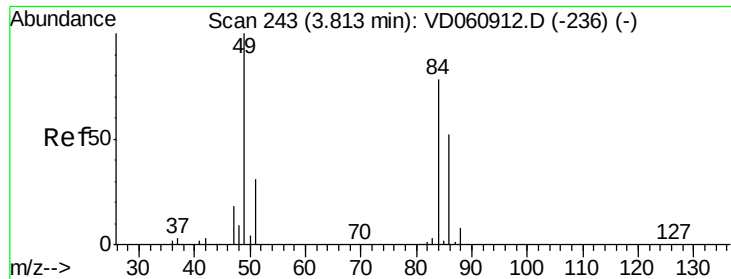
Acetone
 Concen: 57.701 ug/l
 RT: 3.22 min Scan# 182
 Delta R.T. 0.01 min
 Lab File: VD060963.D
 Acq: 6 Mar 2019 14:14

Tgt Ion: 43 Resp: 113710
 Ion Ratio Lower Upper
 43 100
 58 26.6 22.8 34.2



Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 57.95 (57.65 to 58.65): VDC

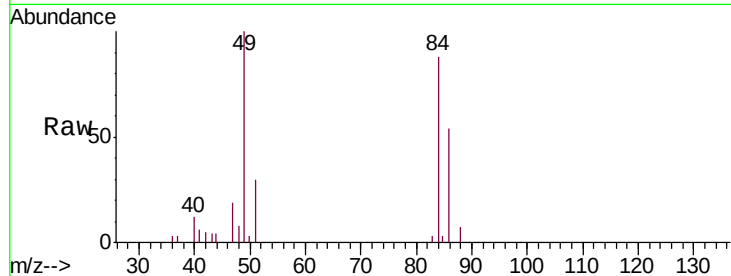




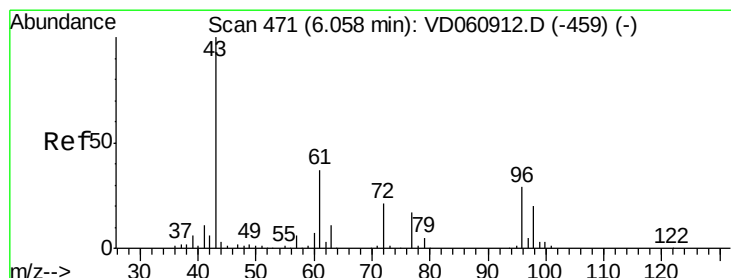
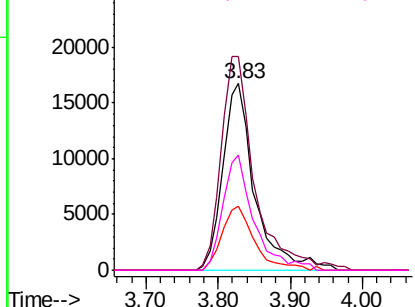
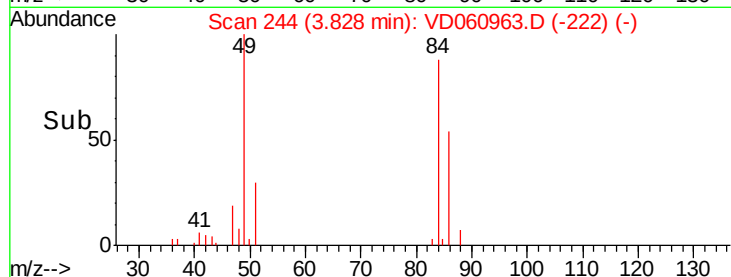
#20
Methylene Chloride
Concen: 2.007 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.02 min
Lab File: VD060963.D
Acq: 6 Mar 2019 14:14

Instrument :
MSVOA_D
ClientSampleId :
RICH-REC-ROAD-STONE-11RE

Tgt Ion: 84 Resp: 51370
Ion Ratio Lower Upper
84 100
49 114.2 102.4 153.6
51 34.4 31.9 47.9
86 61.6 53.1 79.7

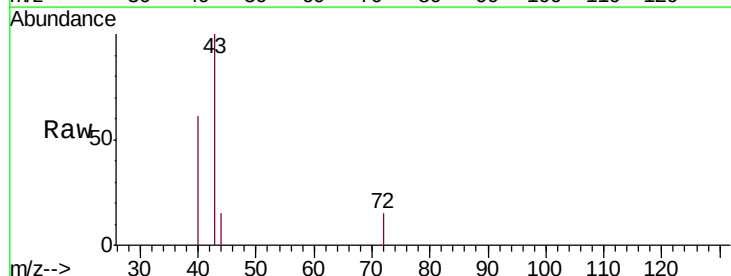


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

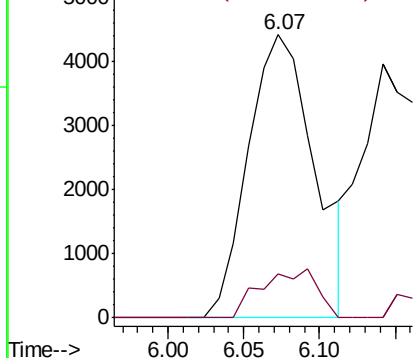
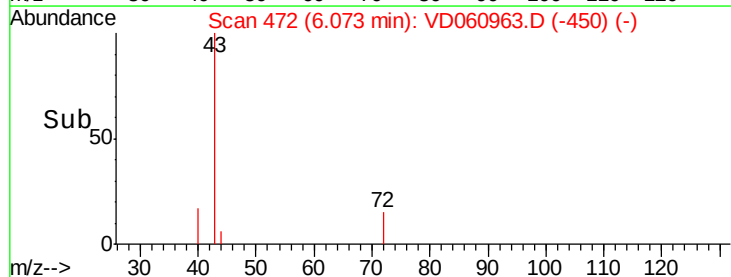


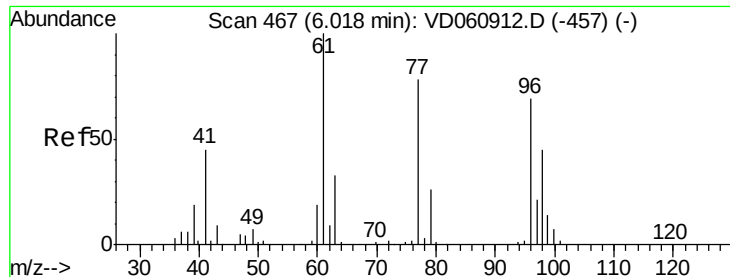
#25
2-Butanone
Concen: 5.522 ug/l
RT: 6.07 min Scan# 472
Delta R.T. 0.01 min
Lab File: VD060963.D
Acq: 6 Mar 2019 14:14

Tgt Ion: 43 Resp: 13499
Ion Ratio Lower Upper
43 100
72 15.4 17.0 25.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

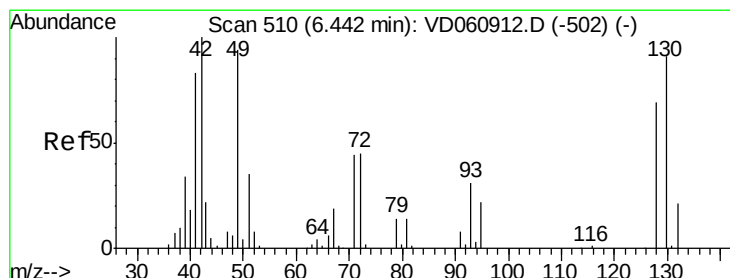
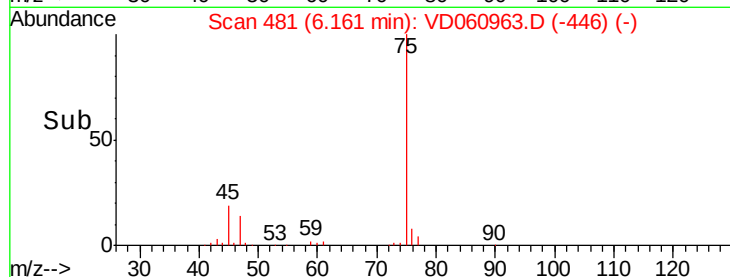
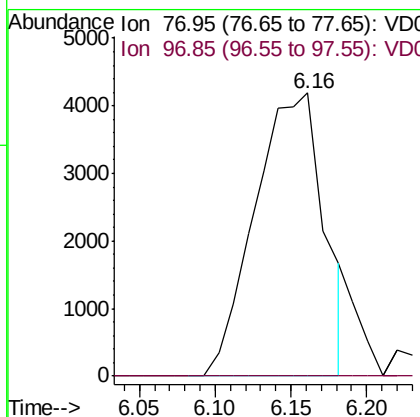
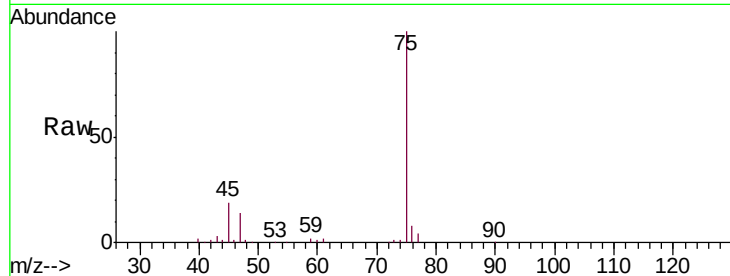




#26
 2,2-Dichloropropane
 Concen: 1.183 ug/l
 RT: 6.16 min Scan# 481
 Delta R.T. 0.14 min
 Lab File: VD060963.D
 Acq: 6 Mar 2019 14:14

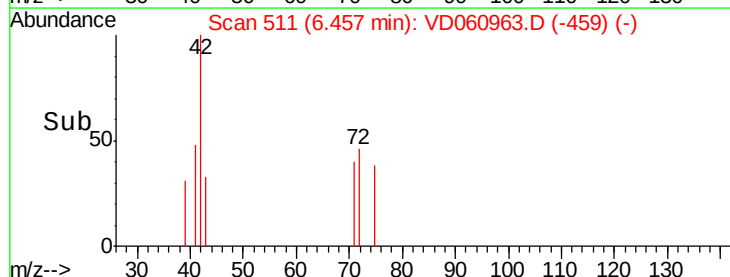
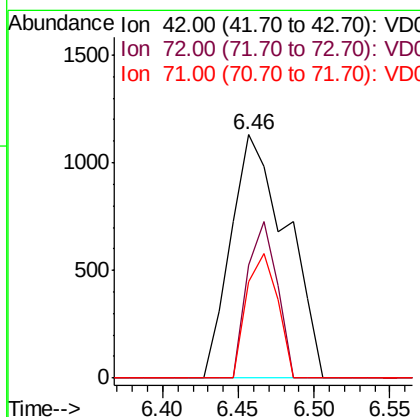
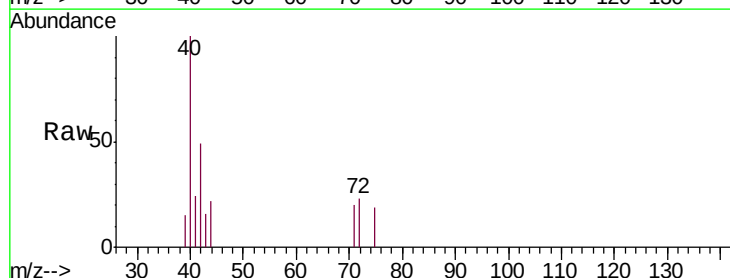
Instrument :
 MSVOA_D
 ClientSampleId :
 RICH-REC-ROAD-STONE-11RE

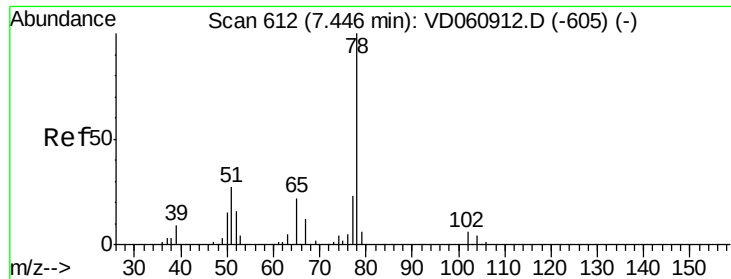
Tgt Ion: 77 Resp: 13300
 Ion Ratio Lower Upper
 77 100
 97 0.0 13.5 40.4#



#29
 Tetrahydrofuran
 Concen: 2.312 ug/l
 RT: 6.46 min Scan# 511
 Delta R.T. 0.01 min
 Lab File: VD060963.D
 Acq: 6 Mar 2019 14:14

Tgt Ion: 42 Resp: 2909
 Ion Ratio Lower Upper
 42 100
 72 34.1 33.8 50.6
 71 28.3 33.5 50.3#

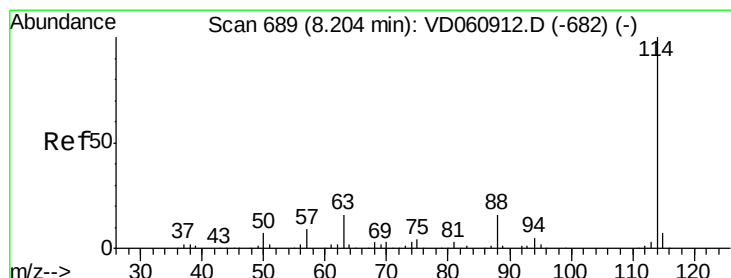
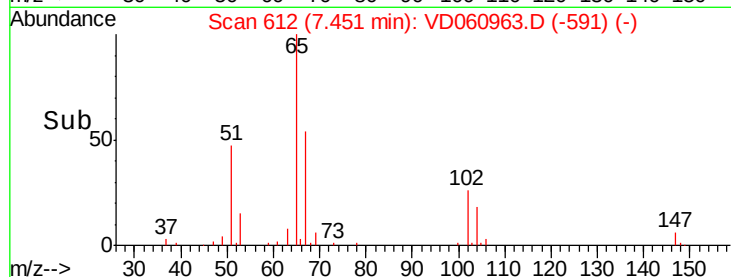
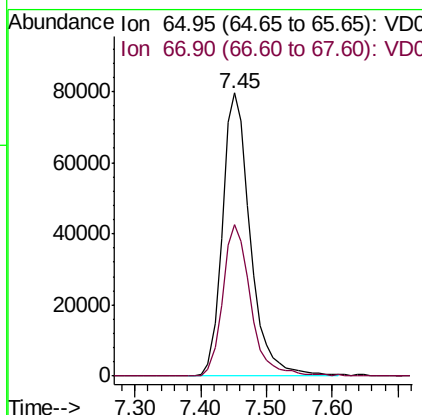
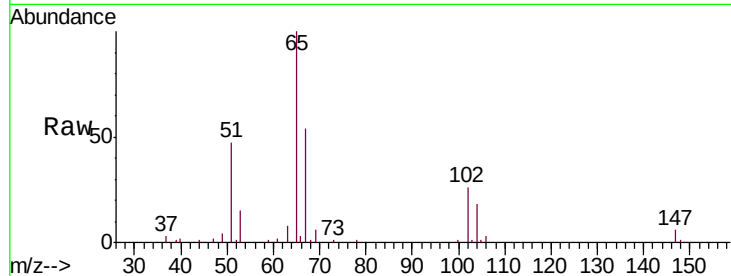




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.01 min
 Lab File: VD060963.D
 Acq: 6 Mar 2019 14:14

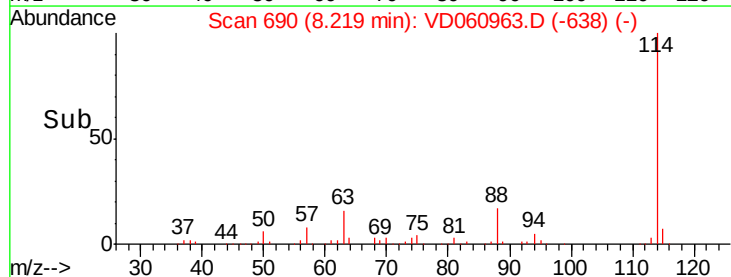
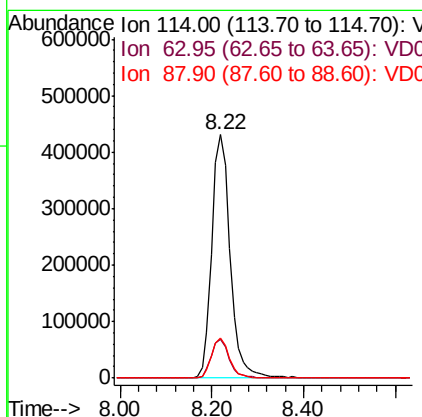
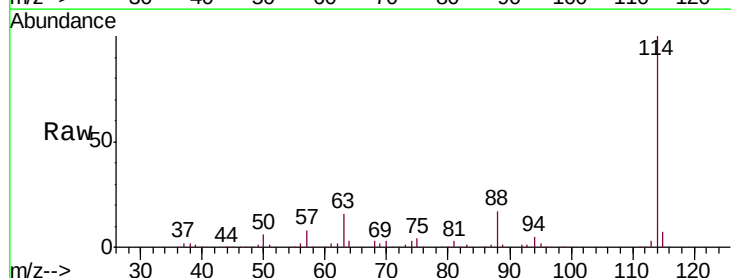
Instrument :
 MSVOA_D
 ClientSampleId :
 RICH-REC-ROAD-STONE-11RE

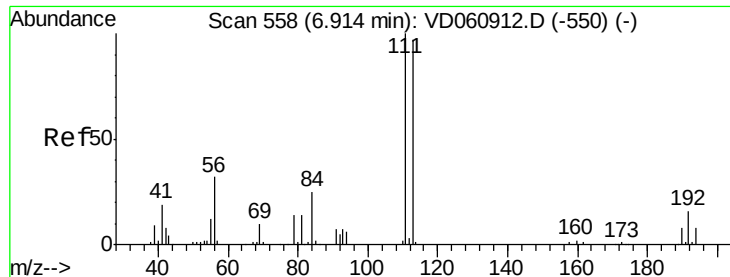
Tgt Ion: 65 Resp: 235130
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD060963.D
 Acq: 6 Mar 2019 14:14

Tgt Ion: 114 Resp: 1184520
 Ion Ratio Lower Upper
 114 100
 63 15.9 0.0 32.0
 88 16.6 0.0 32.8

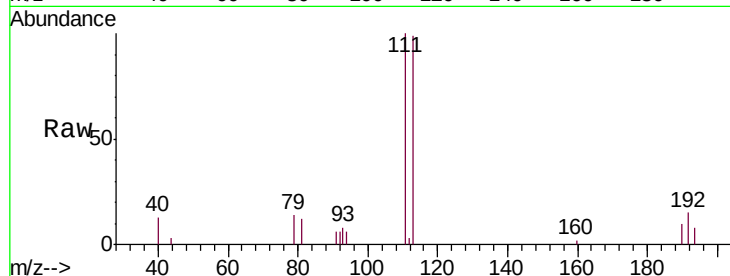




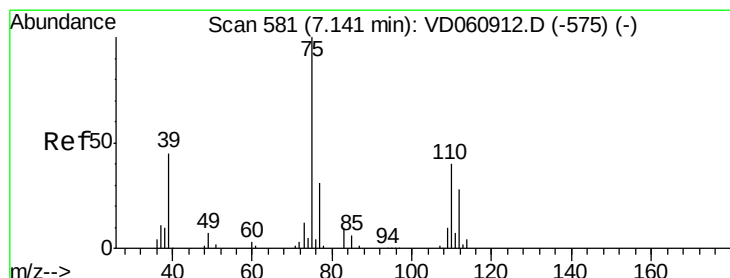
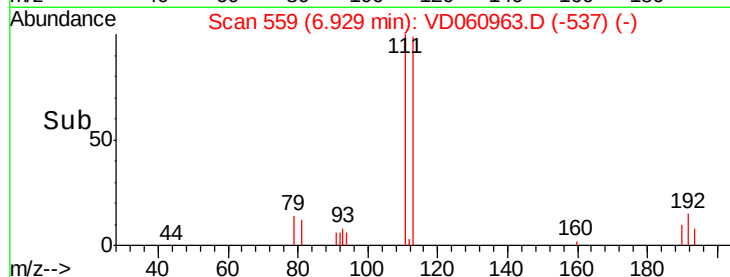
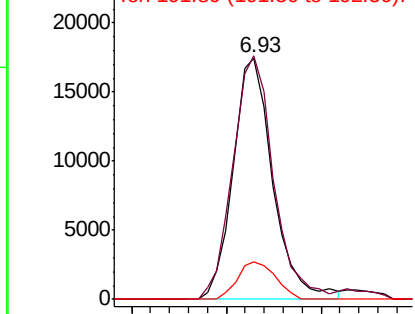
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VD060963.D
 Acq: 6 Mar 2019 14:14

Instrument :
 MSVOA_D
 ClientSampleId :
 RICH-REC-ROAD-STONE-11RE

Tgt Ion:113 Resp: 50900
 Ion Ratio Lower Upper
 113 100
 111 100.9 82.6 124.0
 192 15.5 13.4 20.2

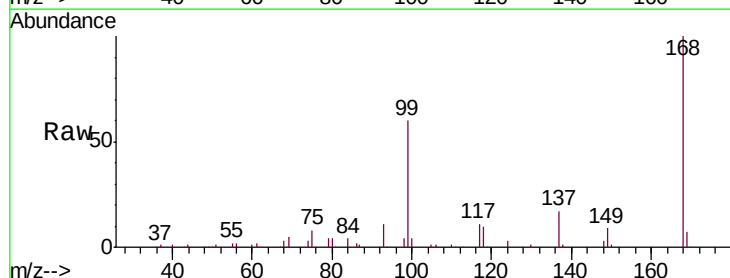


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

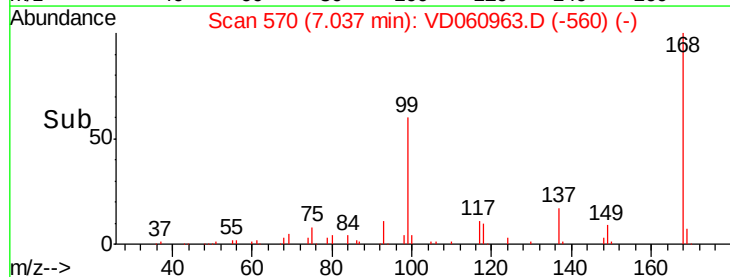
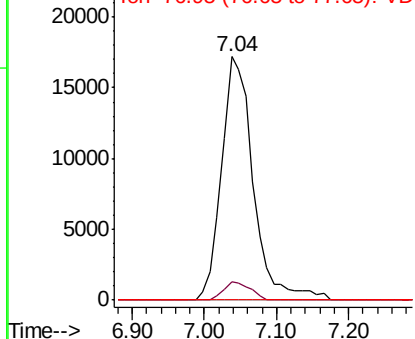


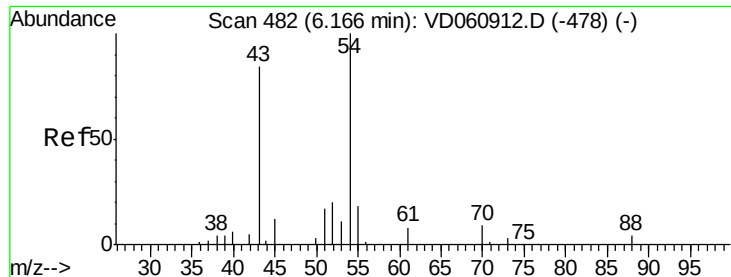
#36
 1,1-Dichloropropene
 Concen: 4.801 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.10 min
 Lab File: VD060963.D
 Acq: 6 Mar 2019 14:14

Tgt Ion: 75 Resp: 52288
 Ion Ratio Lower Upper
 75 100
 110 7.4 19.9 59.7#
 77 0.0 25.0 37.6#



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

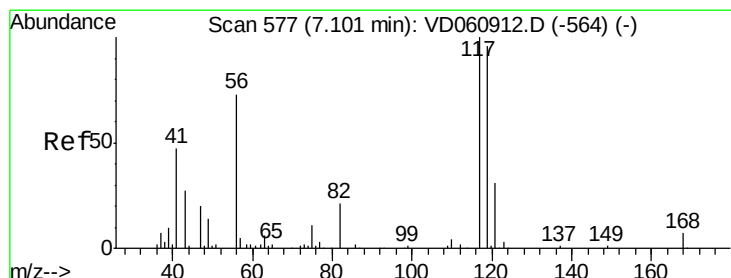
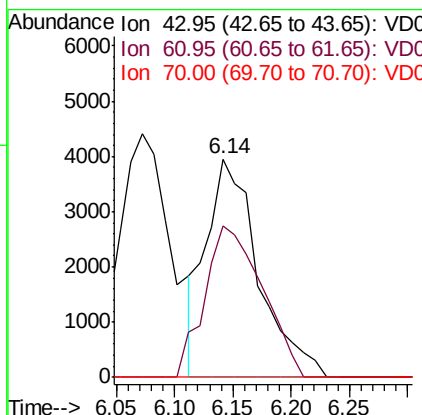
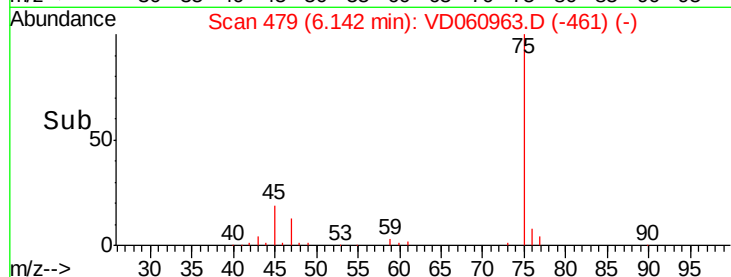
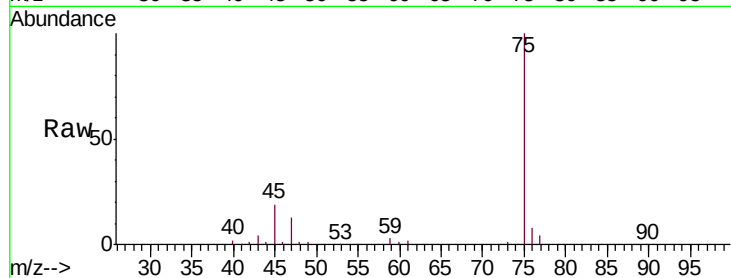




#37
Ethyl Acetate
Concen: 2.196 ug/l
RT: 6.14 min Scan# 479
Delta R.T. -0.02 min
Lab File: VD060963.D
Acq: 6 Mar 2019 14:14

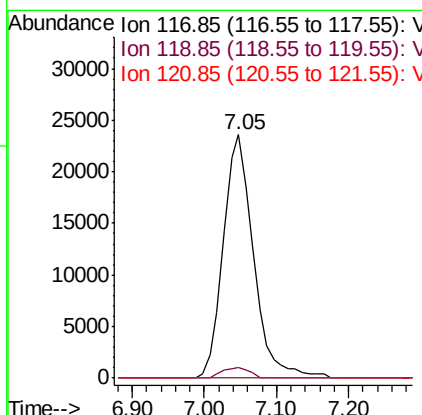
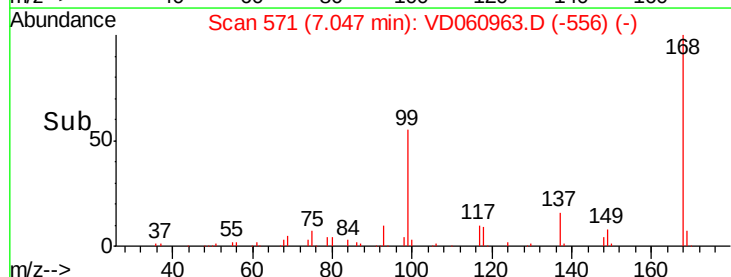
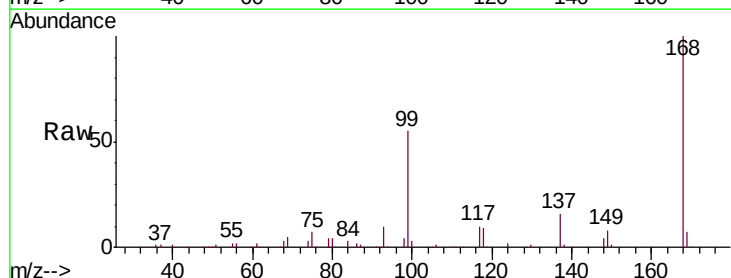
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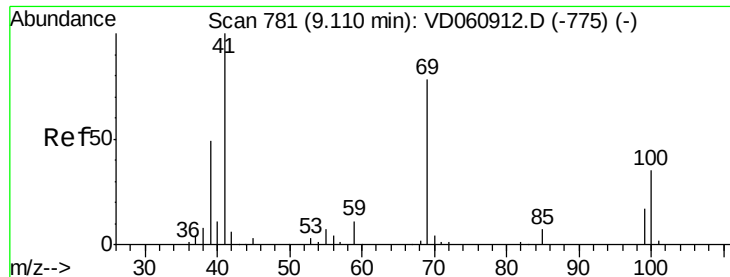
Tgt Ion: 43 Resp: 12292
Ion Ratio Lower Upper
43 100
61 69.1 12.1 18.1#
70 0.0 7.3 10.9#



#38
Carbon Tetrachloride
Concen: 5.848 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.05 min
Lab File: VD060963.D
Acq: 6 Mar 2019 14:14

Tgt Ion: 117 Resp: 68430
Ion Ratio Lower Upper
117 100
119 4.6 76.9 115.3#
121 0.0 24.5 36.7#

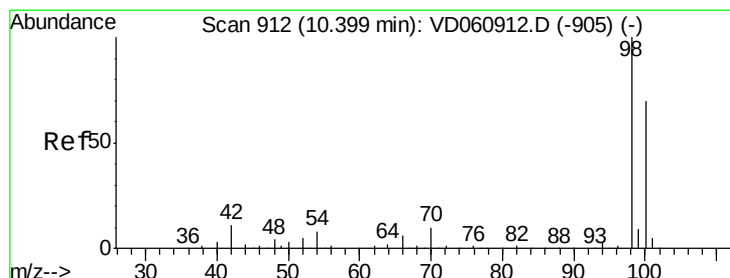
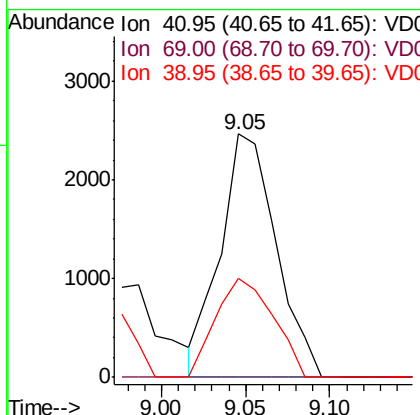
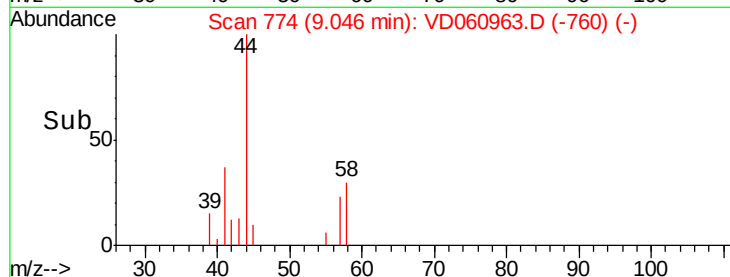
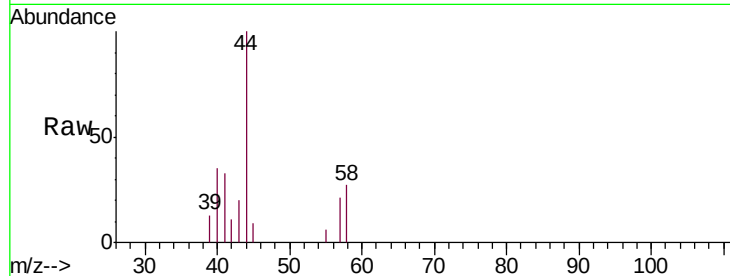




#48
Methyl methacrylate
Concen: 1.293 ug/l
RT: 9.05 min Scan# 774
Delta R.T. -0.06 min
Lab File: VD060963.D
Acq: 6 Mar 2019 14:14

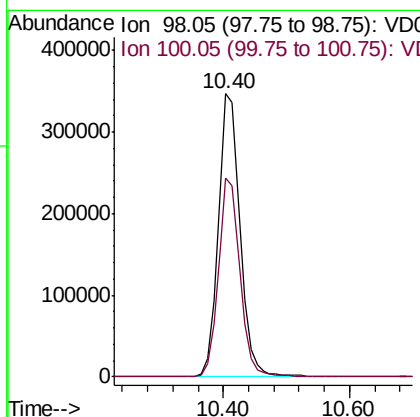
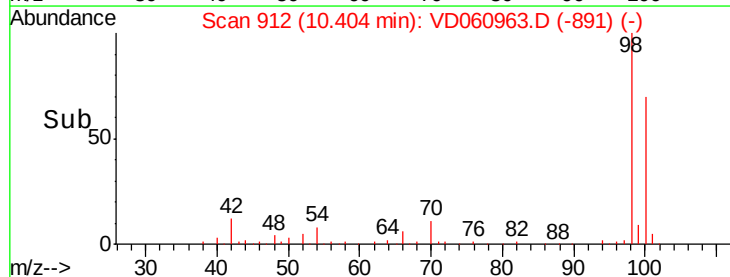
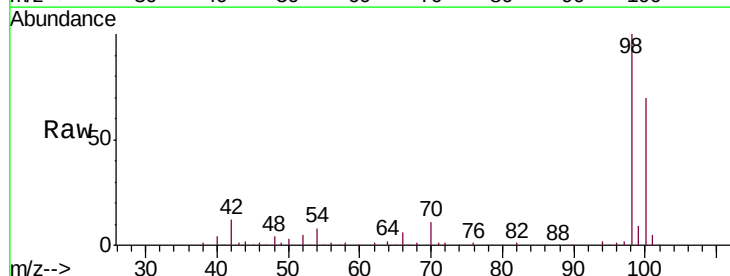
Instrument :
MSVOA_D
ClientSampleId :
RICH-REC-ROAD-STONE-11RE

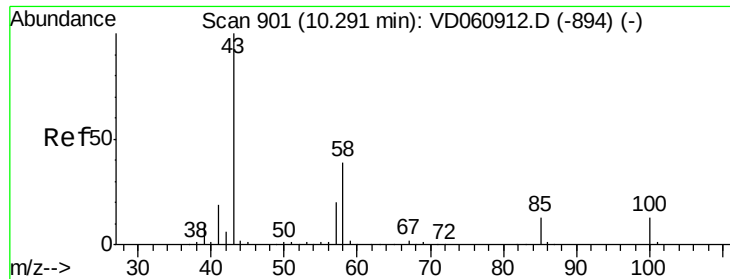
Tgt Ion: 41 Resp: 5669
Ion Ratio Lower Upper
41 100
69 0.0 62.1 93.1#
39 40.6 39.5 59.3



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.01 min
Lab File: VD060963.D
Acq: 6 Mar 2019 14:14

Tgt Ion: 98 Resp: 840060
Ion Ratio Lower Upper
98 100
100 70.3 57.0 85.4





#51

4-Methyl-2-Pentanone

Concen: 1.251 ug/l

RT: 10.30 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD060963.D

Acq: 6 Mar 2019 14:14

Instrument :

MSVOA_D

ClientSampleId :

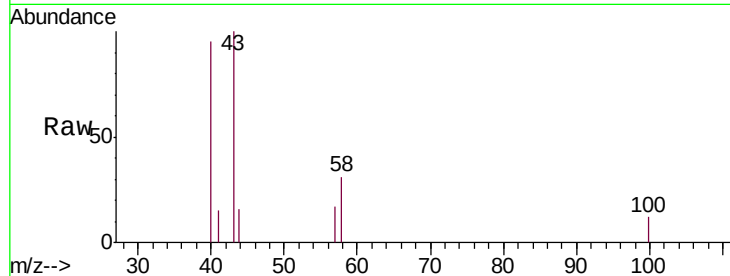
RICH-REC-ROAD-STONE-11RE

Tgt Ion: 43 Resp: 5946

Ion Ratio Lower Upper

43 100

58 30.7 31.0 46.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.30

2500

2000

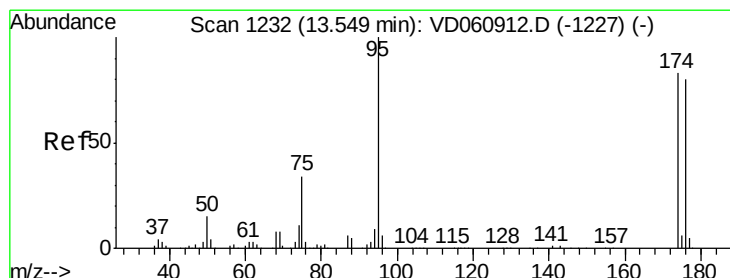
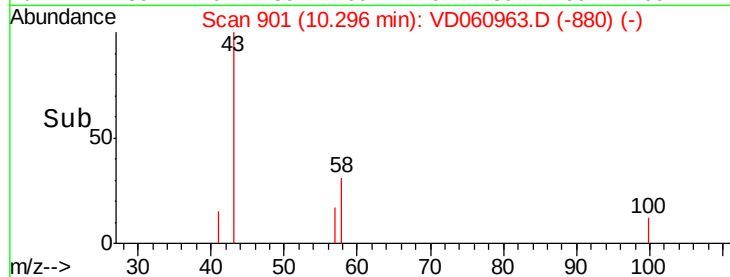
1500

1000

500

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD060963.D

Acq: 6 Mar 2019 14:14

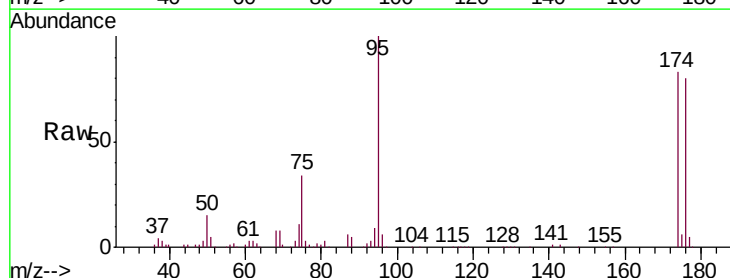
Tgt Ion: 95 Resp: 337262

Ion Ratio Lower Upper

95 100

174 82.8 0.0 165.6

176 79.6 0.0 160.6



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

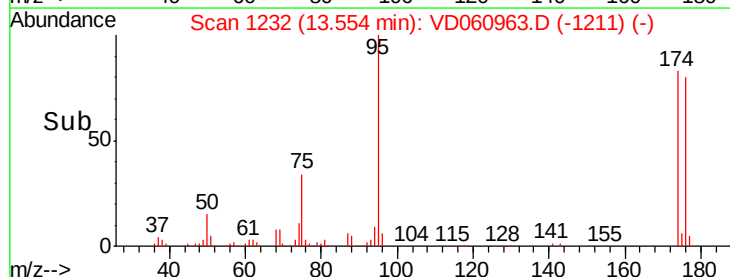
300000

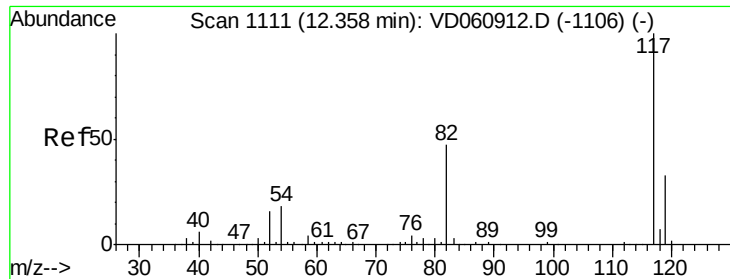
200000

100000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VD060963.D

Acq: 6 Mar 2019 14:14

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-11RE

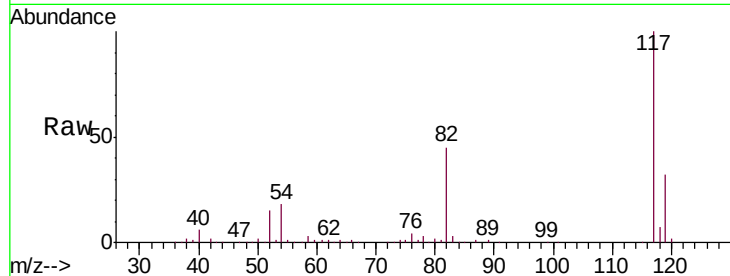
Tgt Ion:117 Resp: 962465

Ion Ratio Lower Upper

117 100

82 45.1 37.5 56.3

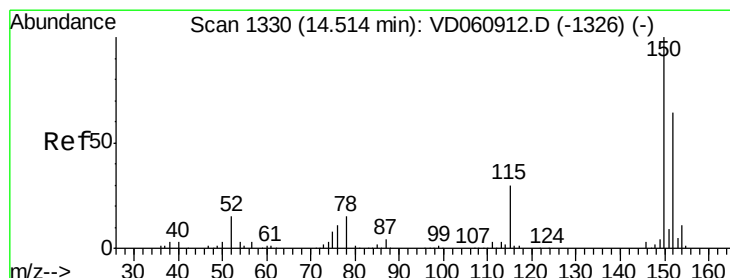
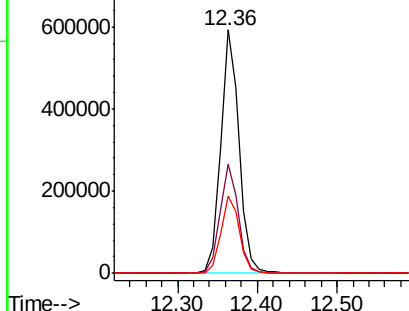
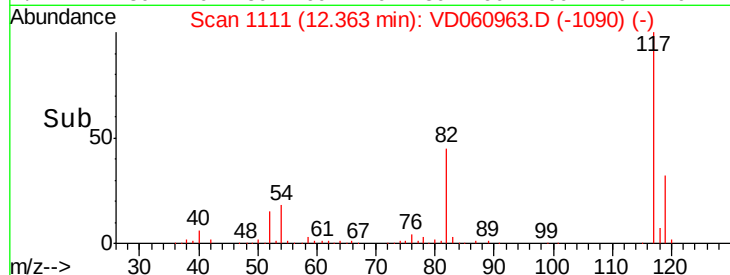
119 31.7 26.2 39.2



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: VD060963.D

Acq: 6 Mar 2019 14:14

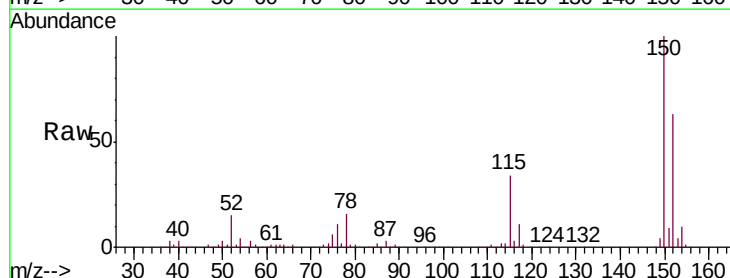
Tgt Ion:152 Resp: 421133

Ion Ratio Lower Upper

152 100

115 53.9 27.6 82.8

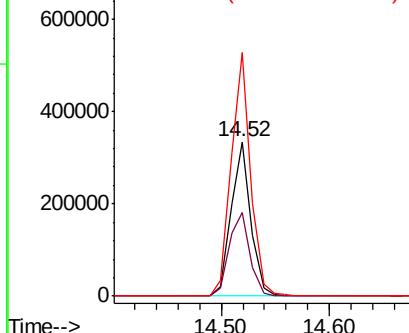
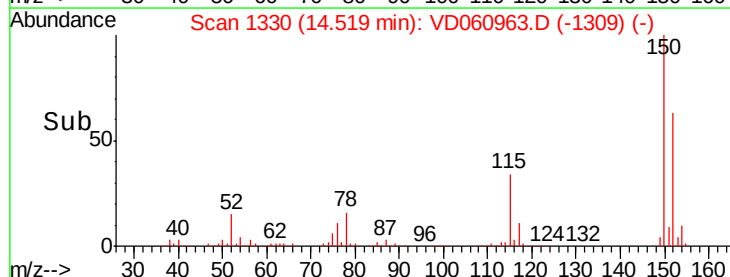
150 157.5 0.0 312.8

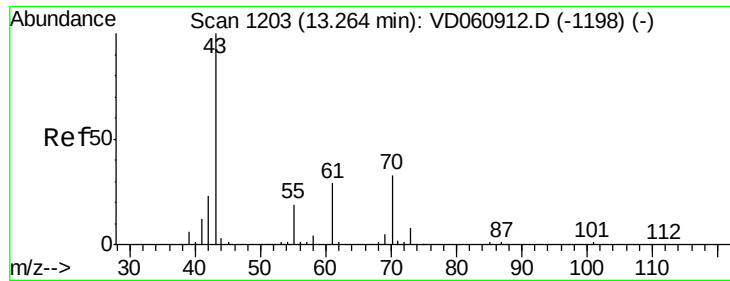


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 2.226 ug/l

RT: 13.30 min Scan# 1206

Delta R.T. 0.03 min

Lab File: VD060963.D

Acq: 6 Mar 2019 14:14

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-11RE

Tgt Ion: 43 Resp: 21640

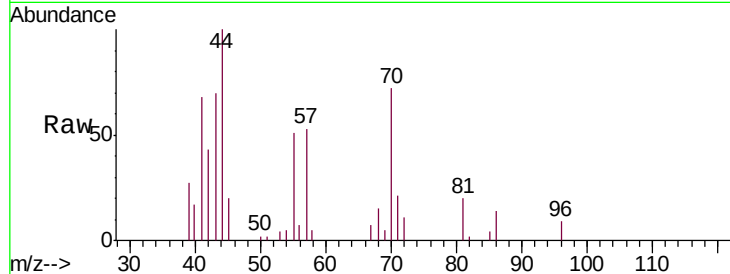
Ion Ratio Lower Upper

43 100

70 102.9 26.3 39.5#

55 72.4 15.4 23.2#

61 0.0 23.4 35.0#

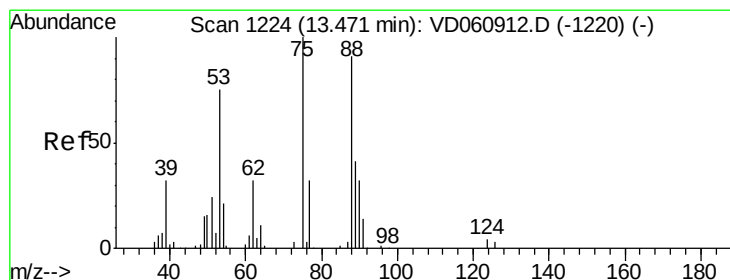
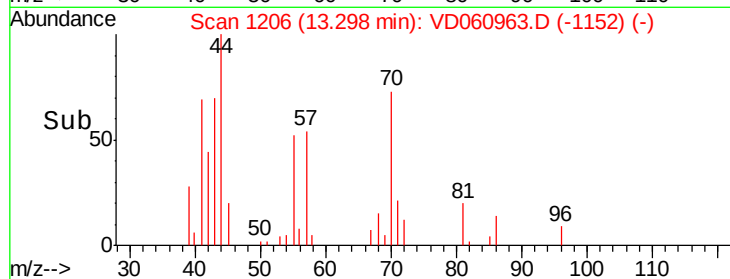
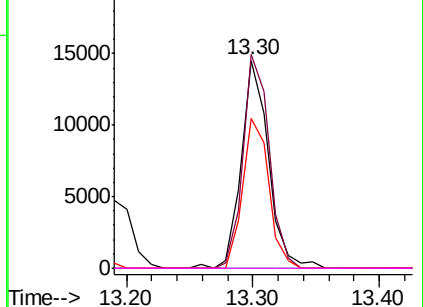


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 59.341 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD060963.D

Acq: 6 Mar 2019 14:14

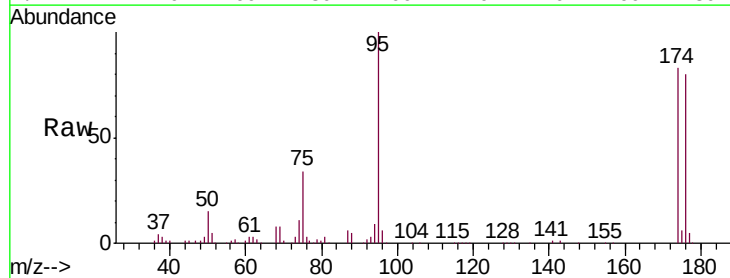
Tgt Ion: 75 Resp: 119835

Ion Ratio Lower Upper

75 100

53 0.0 59.8 89.6#

89 0.0 33.0 49.6#



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

