

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080219\
 Data File : VD06337.D
 Acq On : 3 Aug 2019 2:22
 Operator : VA/AP
 Sample : K4130-15
 Misc : 6.18g/5ml/MSVOA_D/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 04 03:44:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	176541	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	274888	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	266703	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	130939	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	145432	74.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	148.48%	
35) Dibromofluoromethane	6.92	113	123159	52.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.96%	
50) Toluene-d8	10.40	98	238432	45.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.78%	
62) 4-Bromofluorobenzene	13.55	95	108594	45.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.74%	

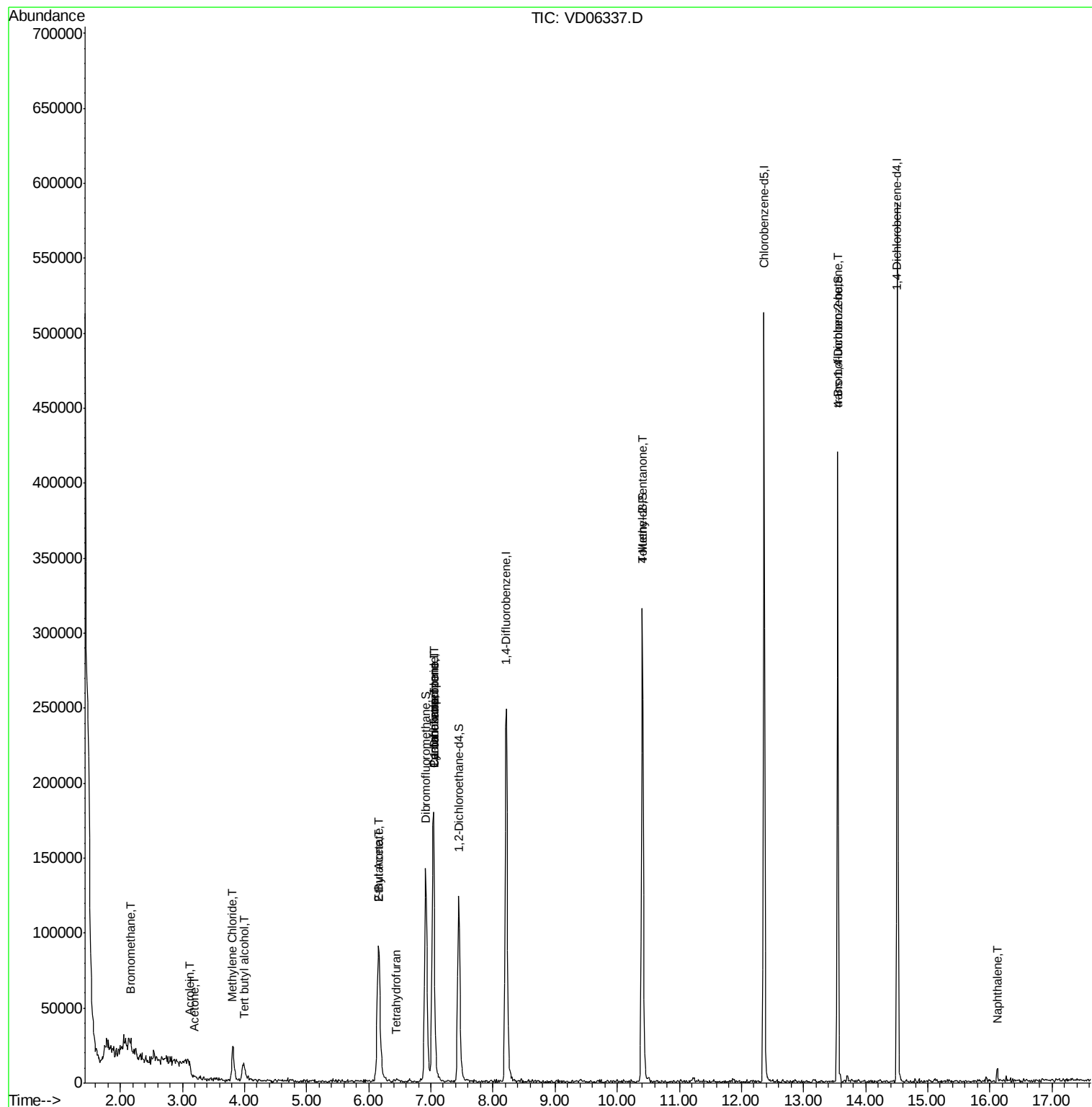
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	3934	4.494	ug/l #	42
11) Tert butyl alcohol	3.99	59	11554	134.403	ug/l	99
13) Acrolein	3.13	56	291	3.517	ug/l	97
16) Acetone	3.21	43	3988	10.449	ug/l #	62
20) Methylene Chloride	3.81	84	11671	7.565	ug/l #	86
25) 2-Butanone	6.17	43	7264	18.964	ug/l	95
29) Tetrahydrofuran	6.44	42	185	1.020	ug/l #	21
31) Cyclohexane	7.04	56	3102	1.778	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	13595	5.419	ug/l #	44
37) Ethyl Acetate	6.17	43	7265	6.446	ug/l #	2
38) Carbon Tetrachloride	7.05	117	17994	4.764	ug/l #	15
51) 4-Methyl-2-Pentanone	10.39	43	1556	1.589	ug/l #	41
81) trans-1,4-Dichloro-2-buten	13.55	75	49874	114.201	ug/l #	3
95) Naphthalene	16.12	128	7150	1.765	ug/l #	81

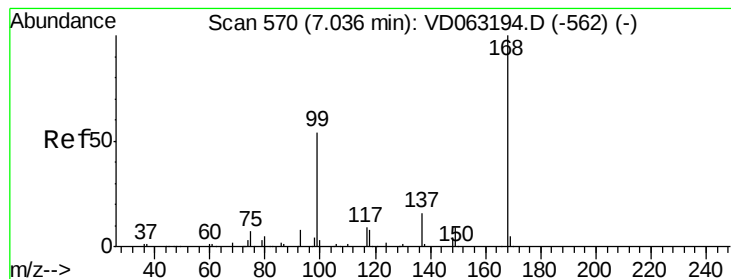
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 30 03:04:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD06337.D

Acq: 3 Aug 2019 2:22

Instrument :

MSVOA_D

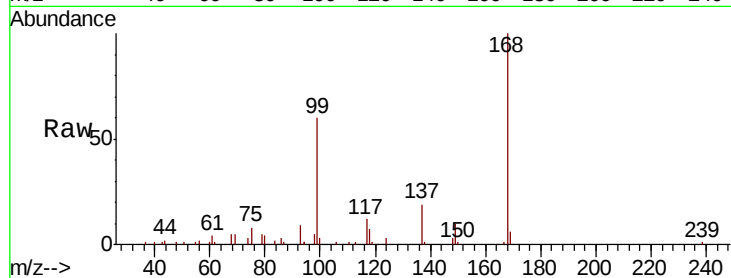
ClientSampleId :

Tgt Ion:168 Resp: 176541

Ion Ratio Lower Upper

168 100

99 59.7 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

60000

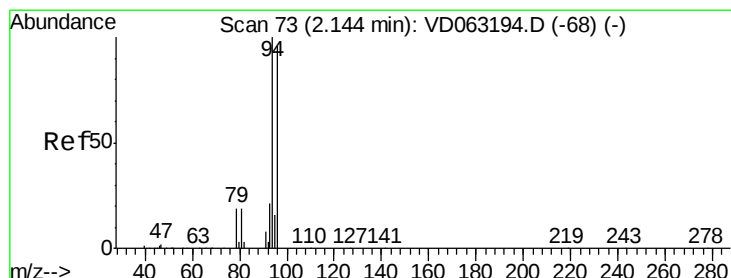
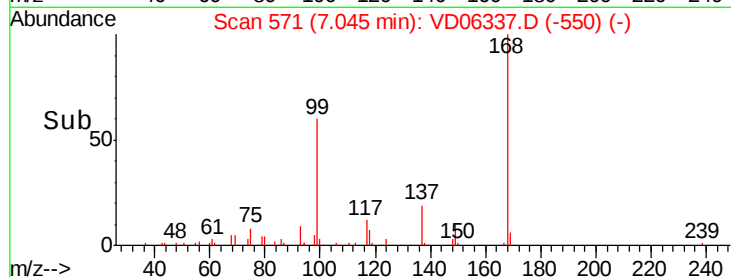
40000

20000

0

Time-->

6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 4.494 ug/l

RT: 2.16 min Scan# 75

Delta R.T. 0.02 min

Lab File: VD06337.D

Acq: 3 Aug 2019 2:22

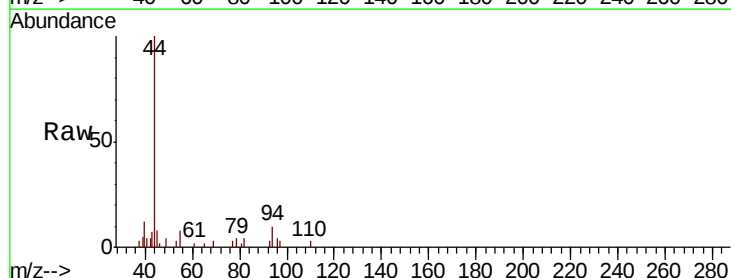
Tgt Ion: 94 Resp: 3934

Ion Ratio Lower Upper

94 100

96 36.3 76.4 114.6#

93 0.0 17.3 25.9#



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

2000

1500

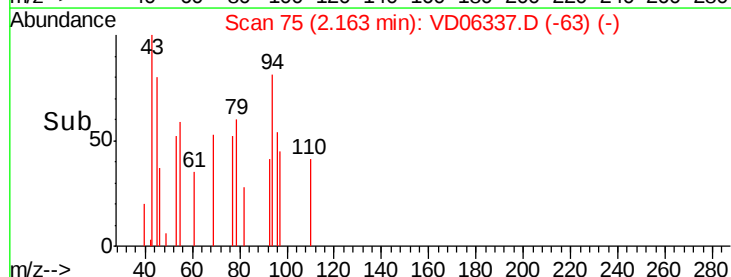
1000

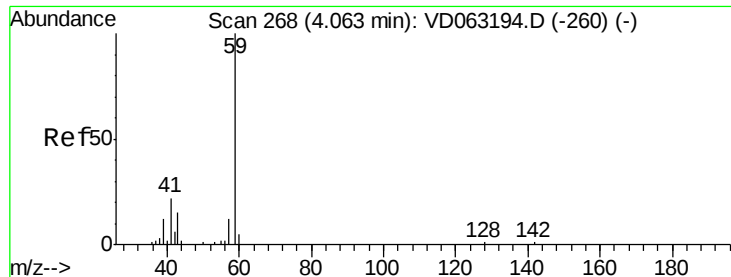
500

0

Time-->

2.10 2.15 2.20



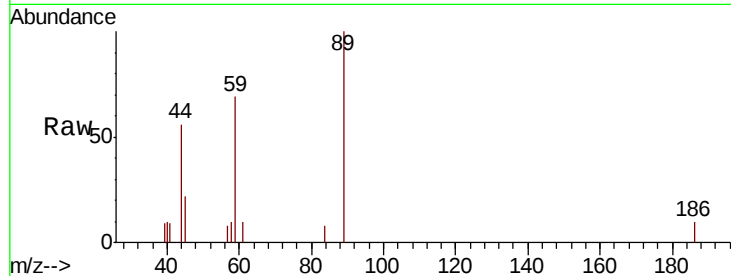


#11

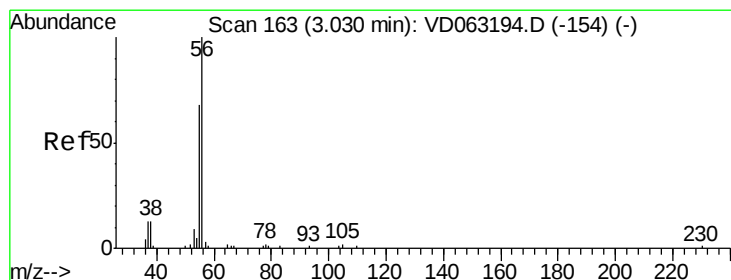
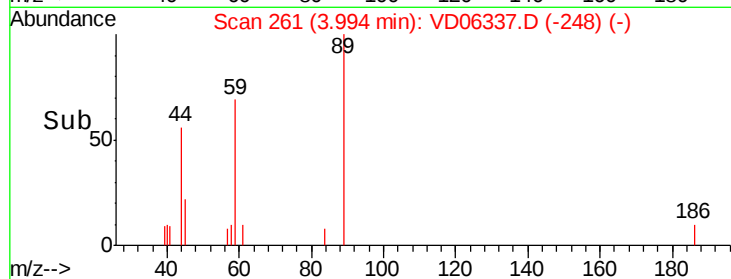
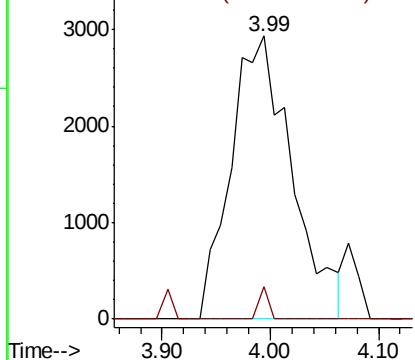
Tert butyl alcohol
Concen: 134.403 ug/l
RT: 3.99 min Scan# 261
Delta R.T. -0.07 min
Lab File: VD06337.D
Acq: 3 Aug 2019 2:22

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 59 Resp: 11554
Ion Ratio Lower Upper
59 100
57 11.5 9.6 14.4



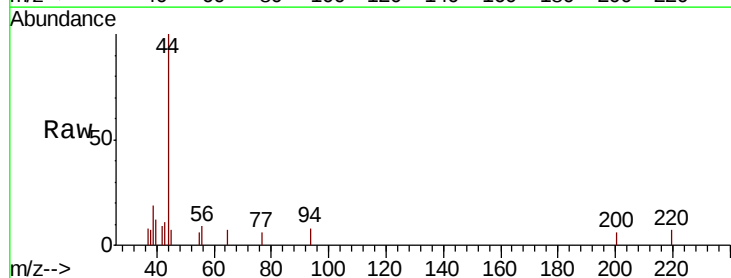
Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC



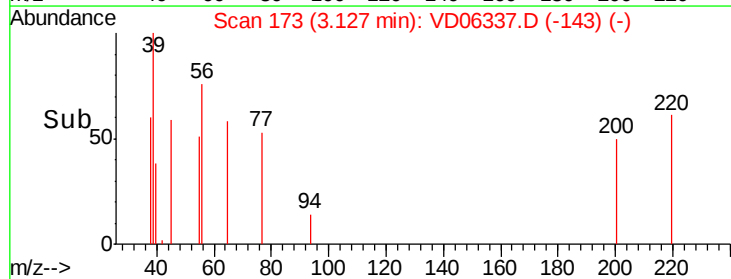
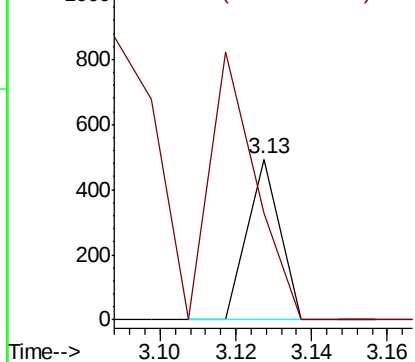
#13

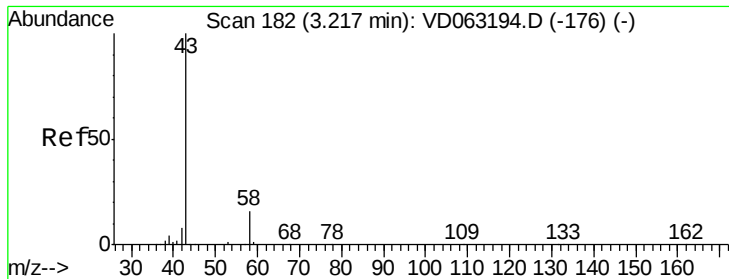
Acrolein
Concen: 3.517 ug/l
RT: 3.13 min Scan# 173
Delta R.T. 0.10 min
Lab File: VD06337.D
Acq: 3 Aug 2019 2:22

Tgt Ion: 56 Resp: 291
Ion Ratio Lower Upper
56 100
55 66.5 55.3 82.9



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 10.449 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD06337.D

Acq: 3 Aug 2019 2:22

Instrument :

MSVOA_D

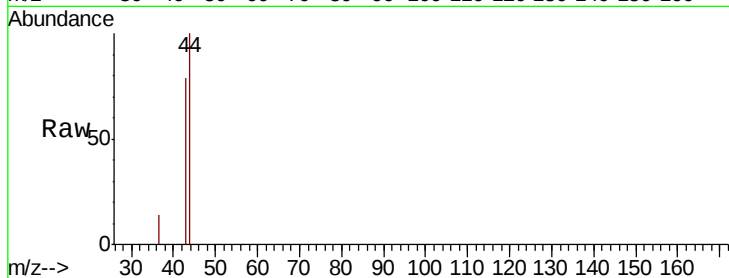
ClientSampleId :

Tgt Ion: 43 Resp: 3988

Ion Ratio Lower Upper

43 100

58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.21

2000

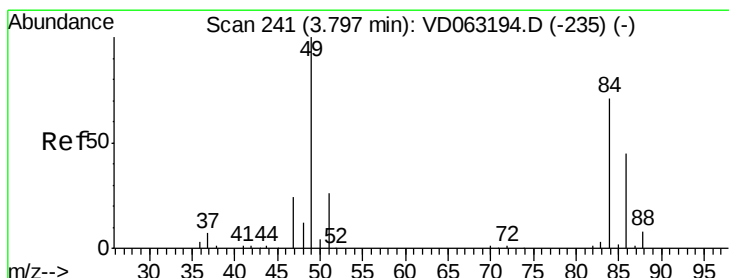
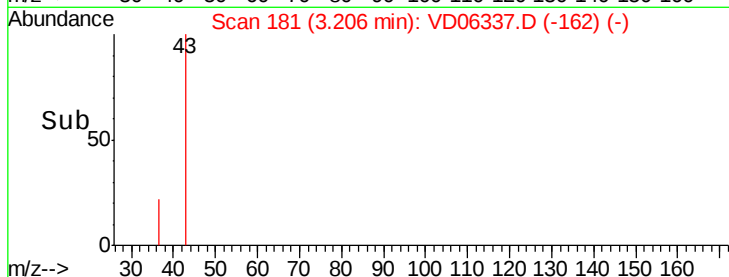
1500

1000

500

0

Time-->



#20

Methylene Chloride

Concen: 7.565 ug/l

RT: 3.81 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD06337.D

Acq: 3 Aug 2019 2:22

Tgt Ion: 84 Resp: 11671

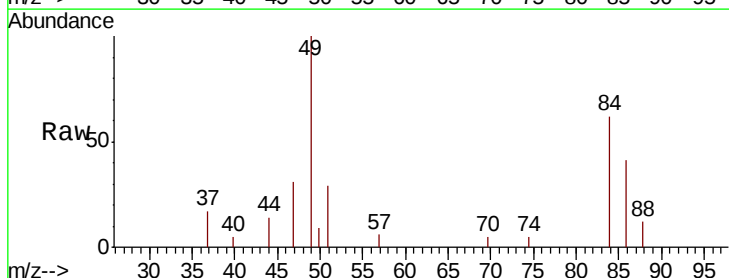
Ion Ratio Lower Upper

84 100

49 161.8 112.5 168.7

51 46.1 29.6 44.4#

86 67.0 50.4 75.6



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

12000

10000

8000

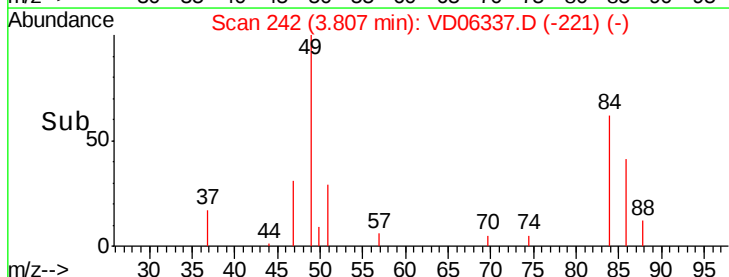
6000

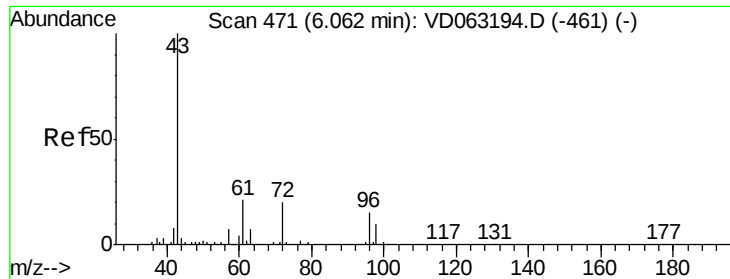
4000

2000

0

Time-->





#25

2-Butanone

Concen: 18.964 ug/l

RT: 6.17 min Scan# 482

Delta R.T. 0.11 min

Lab File: VD06337.D

Acq: 3 Aug 2019 2:22

Instrument :

MSVOA_D

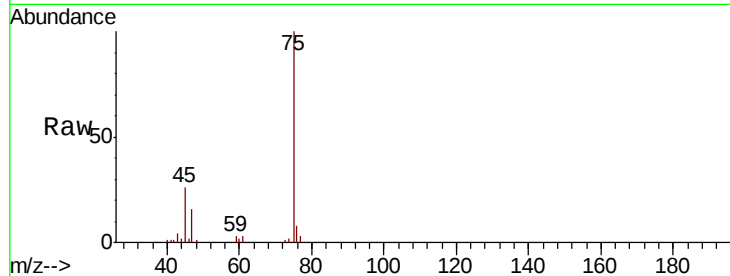
ClientSampleId :

Tgt Ion: 43 Resp: 7264

Ion Ratio Lower Upper

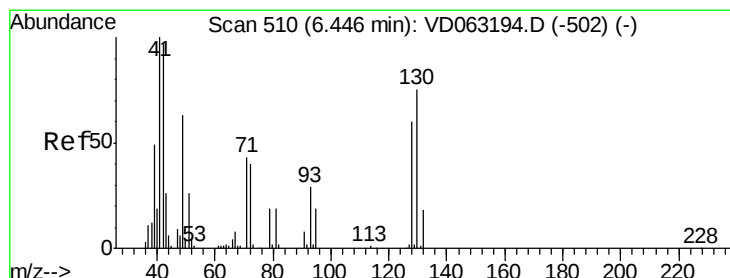
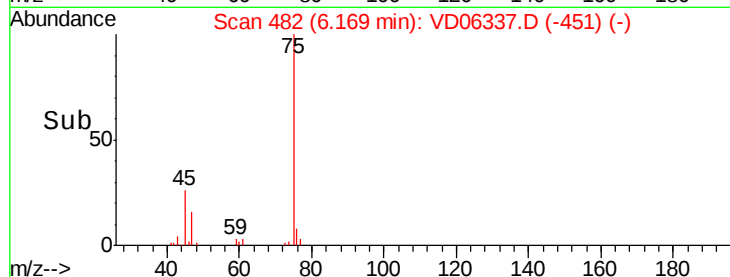
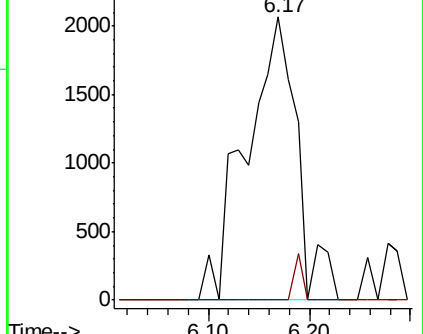
43 100

72 17.9 16.3 24.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.020 ug/l

RT: 6.44 min Scan# 510

Delta R.T. -0.00 min

Lab File: VD06337.D

Acq: 3 Aug 2019 2:22

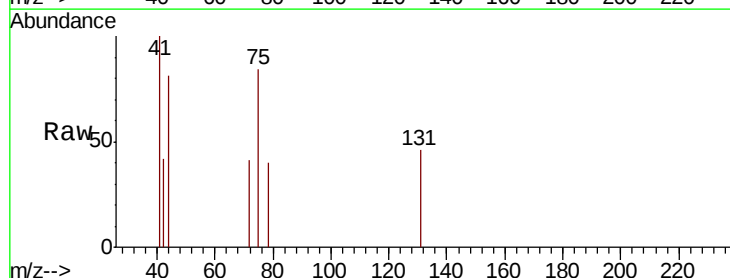
Tgt Ion: 42 Resp: 185

Ion Ratio Lower Upper

42 100

72 98.4 33.4 50.2#

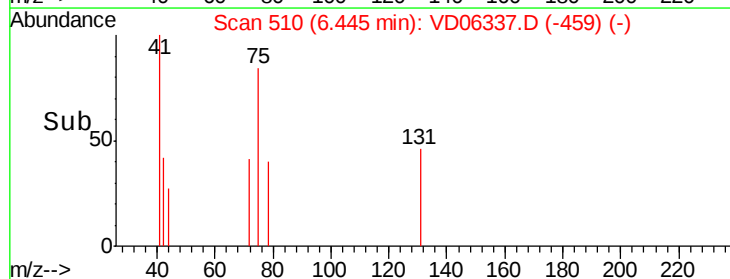
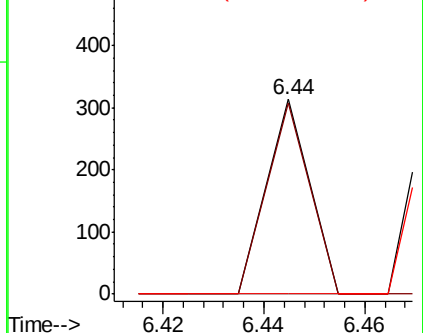
71 0.0 35.7 53.5#

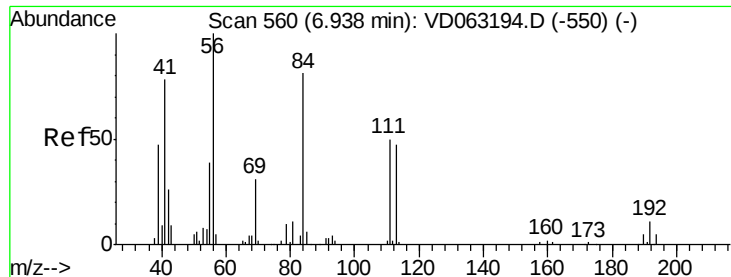


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

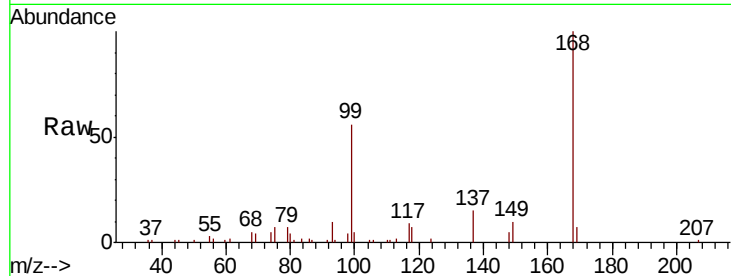




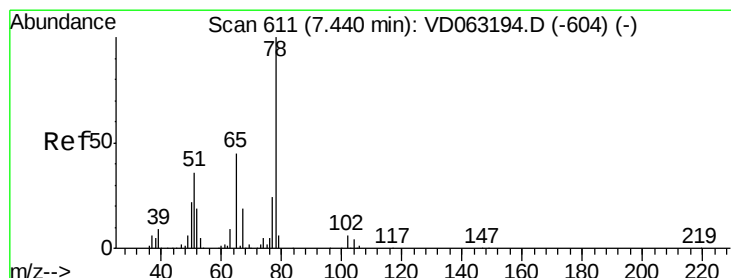
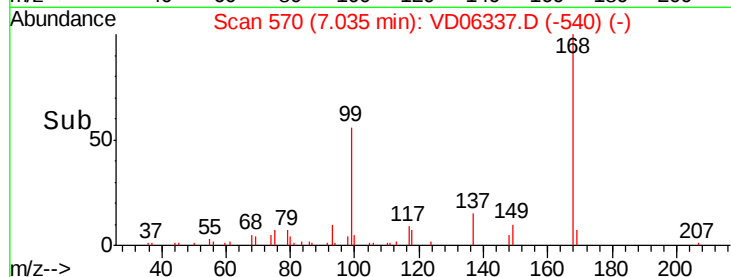
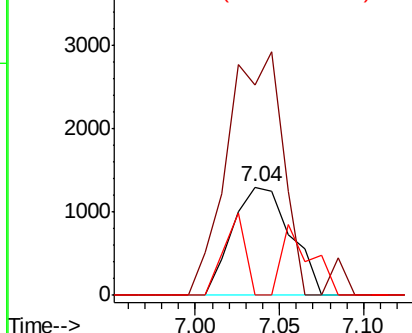
#31
Cyclohexane
Concen: 1.778 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.10 min
Lab File: VD06337.D
Acq: 3 Aug 2019 2:22

Instrument :
MSVOA_D
ClientSampled :

Tgt Ion: 56 Resp: 3102
Ion Ratio Lower Upper
56 100
69 194.1 24.5 36.7#
84 0.0 64.9 97.3#

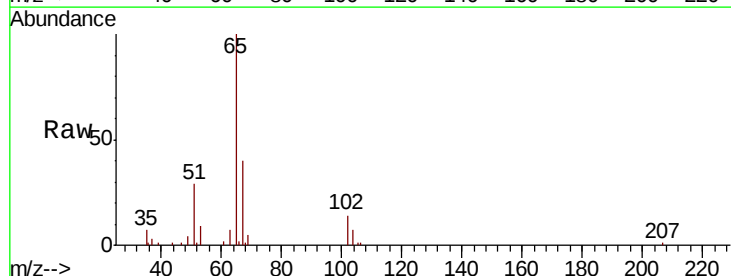


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

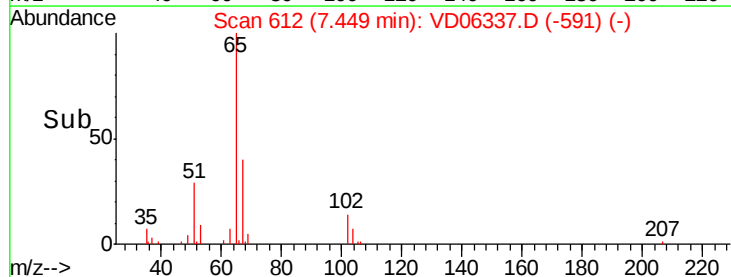
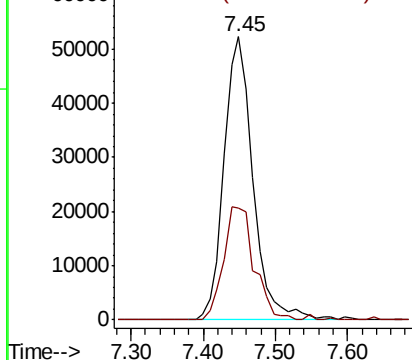


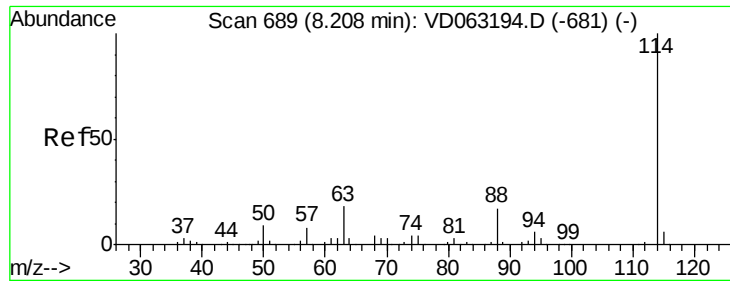
#33
1,2-Dichloroethane-d4
Concen: 74.242 ug/l
RT: 7.45 min Scan# 612
Delta R.T. 0.01 min
Lab File: VD06337.D
Acq: 3 Aug 2019 2:22

Tgt Ion: 65 Resp: 145432
Ion Ratio Lower Upper
65 100
67 39.7 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

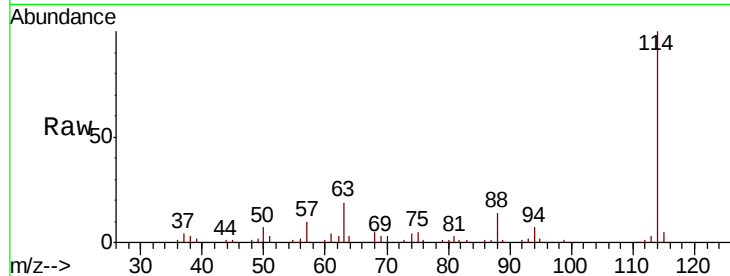




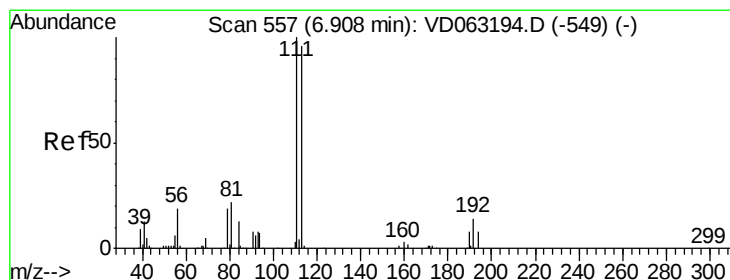
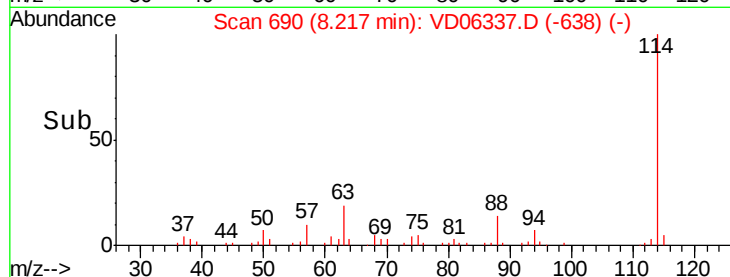
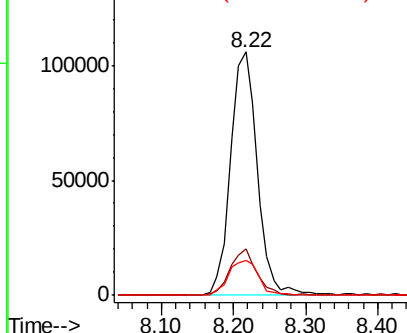
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD06337.D
 Acq: 3 Aug 2019 2:22

Instrument :
 MSVOA_D
 ClientSampleId :

Tgt Ion:114 Resp: 274888
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 35.2
 88 14.4 0.0 34.6

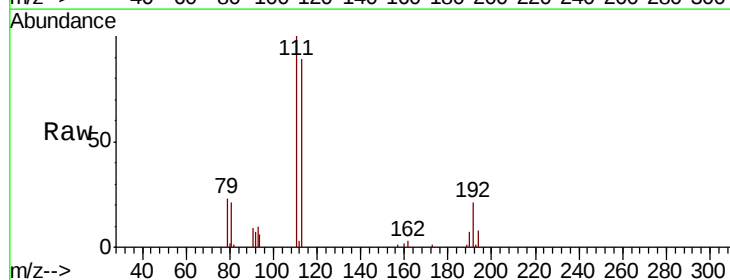


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

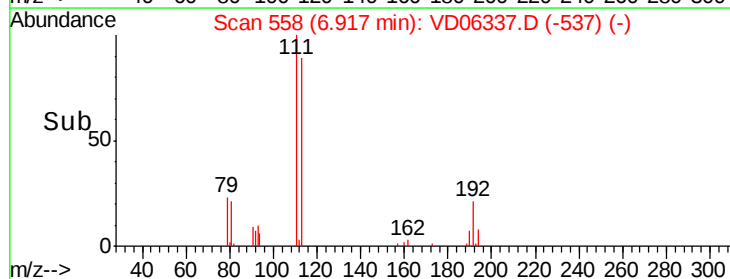
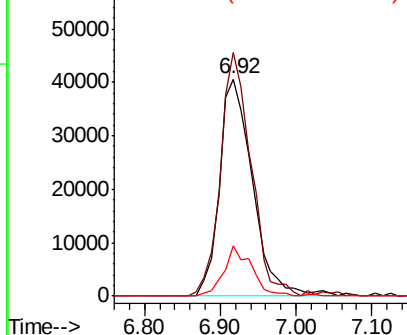


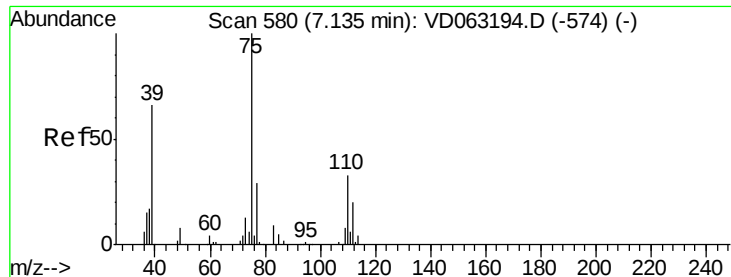
#35
 Dibromofluoromethane
 Concen: 52.476 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.01 min
 Lab File: VD06337.D
 Acq: 3 Aug 2019 2:22

Tgt Ion:113 Resp: 123159
 Ion Ratio Lower Upper
 113 100
 111 112.0 83.2 124.8
 192 23.0 11.8 17.8#



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: 5.419 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.09 min

Lab File: VD06337.D

Acq: 3 Aug 2019 2:22

Instrument :

MSVOA_D

ClientSampleId :

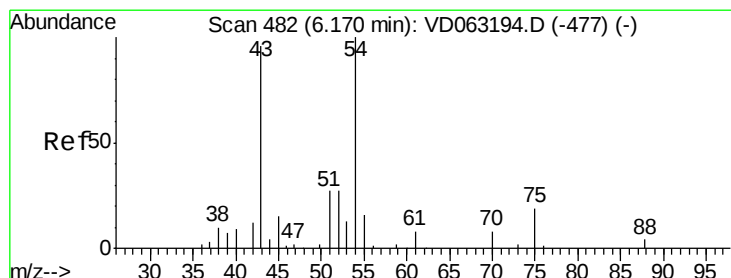
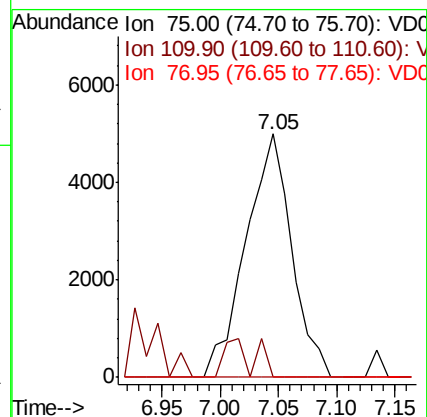
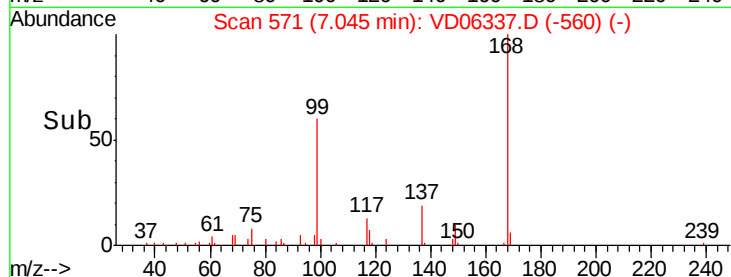
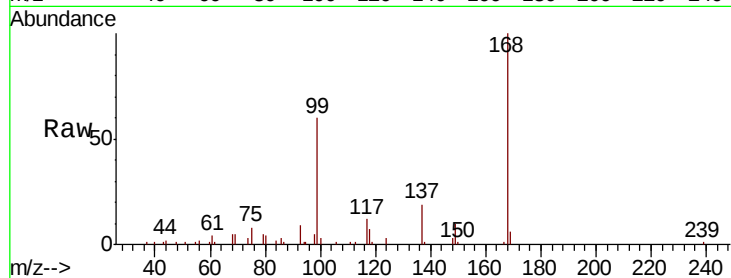
Tgt Ion: 75 Resp: 13595

Ion Ratio Lower Upper

75 100

110 0.0 16.1 48.2#

77 0.0 22.7 34.1#



#37

Ethyl Acetate

Concen: 6.446 ug/l

RT: 6.17 min Scan# 482

Delta R.T. -0.00 min

Lab File: VD06337.D

Acq: 3 Aug 2019 2:22

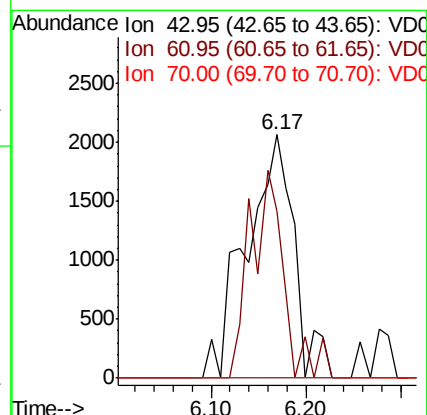
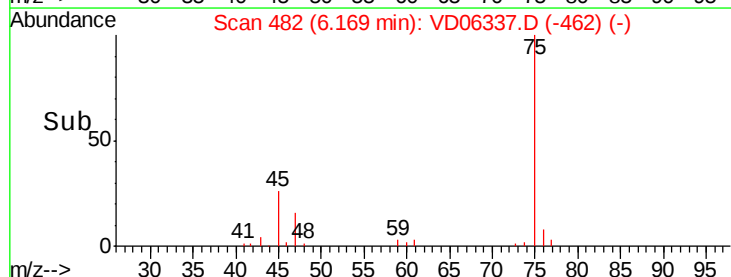
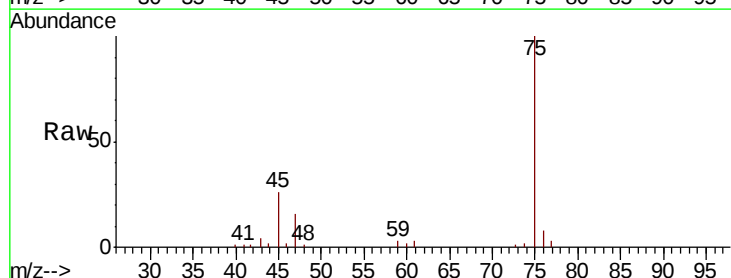
Tgt Ion: 43 Resp: 7265

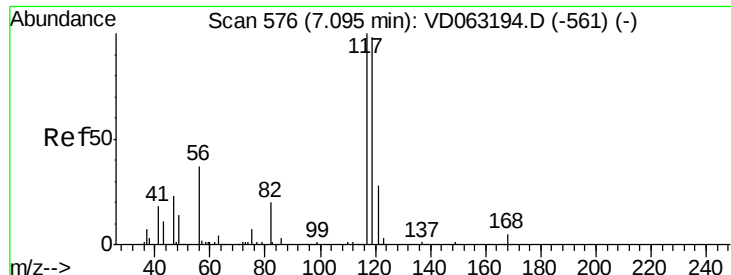
Ion Ratio Lower Upper

43 100

61 68.5 11.3 16.9#

70 0.0 5.1 7.7#

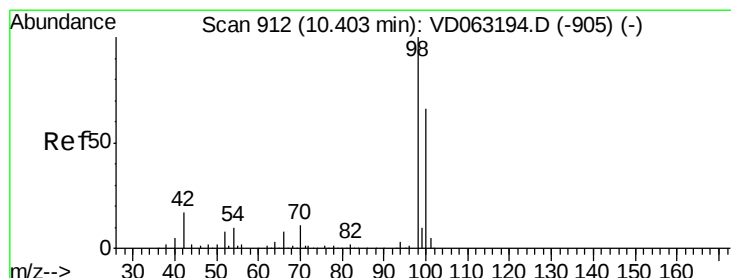
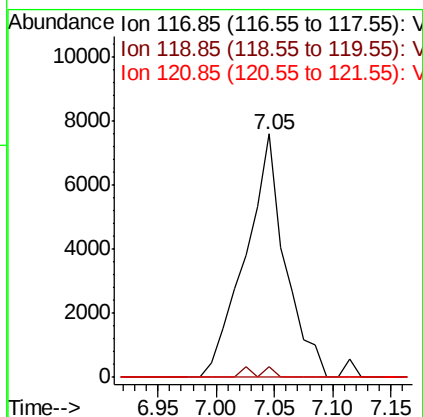
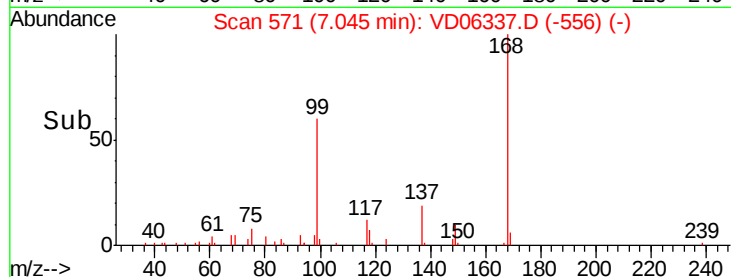
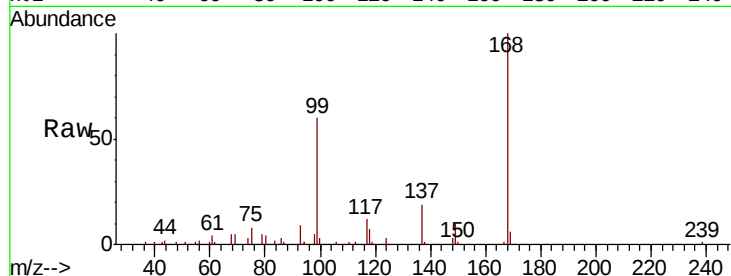




#38
Carbon Tetrachloride
Concen: 4.764 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.05 min
Lab File: VD06337.D
Acq: 3 Aug 2019 2:22

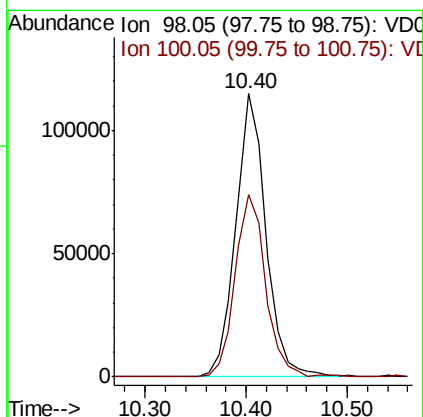
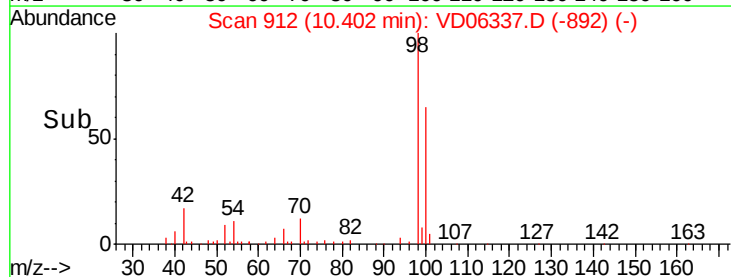
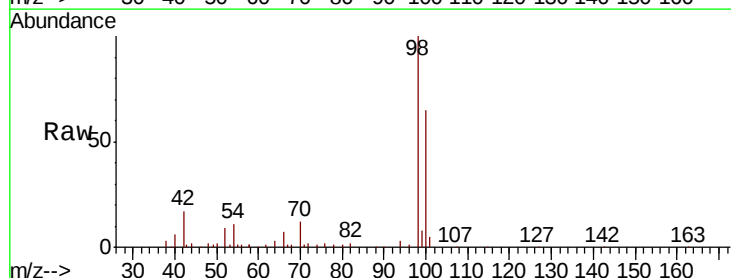
Instrument :
MSVOA_D
ClientSampleId :

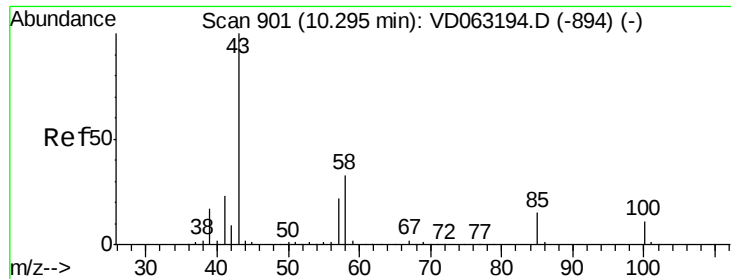
Tgt Ion:117 Resp: 17994
Ion Ratio Lower Upper
117 100
119 4.5 78.2 117.2#
121 0.0 22.1 33.1#



#50
Toluene-d8
Concen: 45.394 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.00 min
Lab File: VD06337.D
Acq: 3 Aug 2019 2:22

Tgt Ion: 98 Resp: 238432
Ion Ratio Lower Upper
98 100
100 64.6 53.2 79.8





#51

4-Methyl-2-Pentanone

Concen: 1.589 ug/l

RT: 10.39 min Scan# 911

Delta R.T. 0.10 min

Lab File: VD06337.D

Acq: 3 Aug 2019 2:22

Instrument :

MSVOA_D

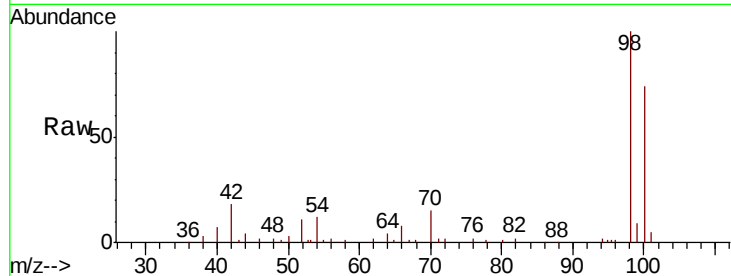
ClientSampled :

Tgt Ion: 43 Resp: 1556

Ion Ratio Lower Upper

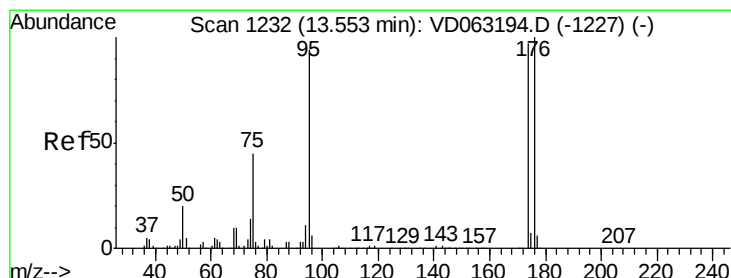
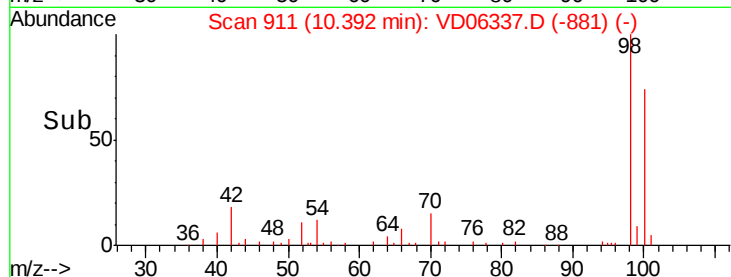
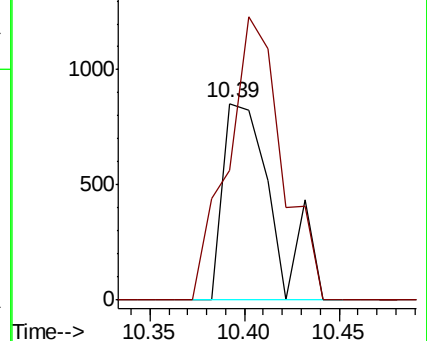
43 100

58 66.0 26.2 39.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: 45.370 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD06337.D

Acq: 3 Aug 2019 2:22

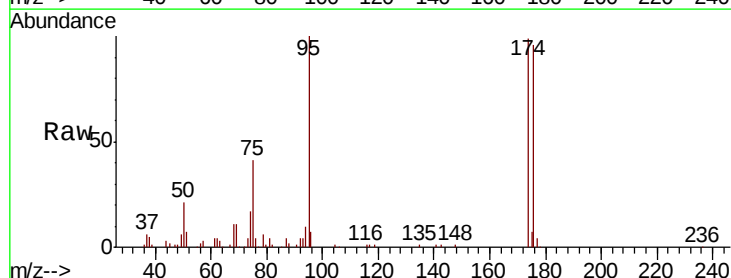
Tgt Ion: 95 Resp: 108594

Ion Ratio Lower Upper

95 100

174 98.5 0.0 205.4

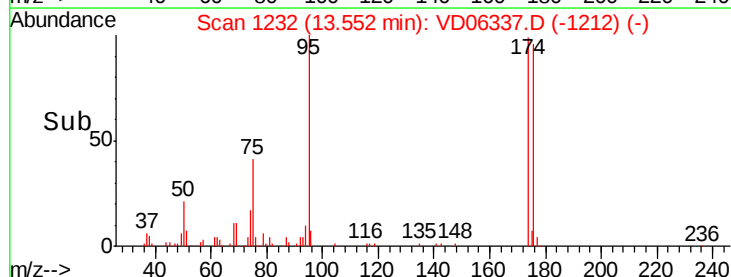
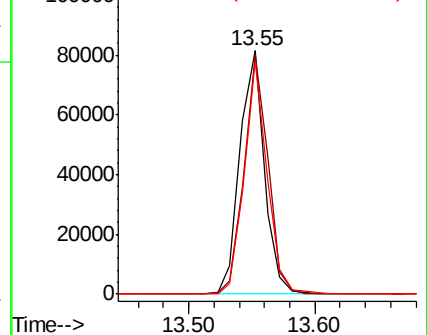
176 95.8 0.0 211.8

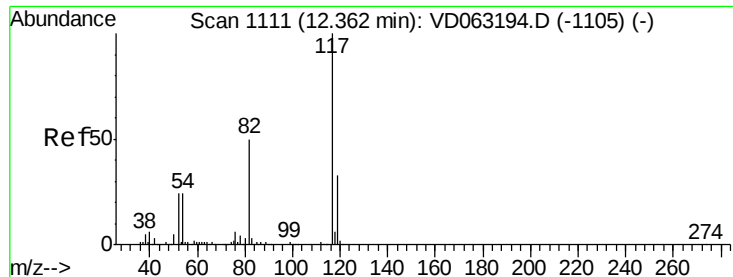


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

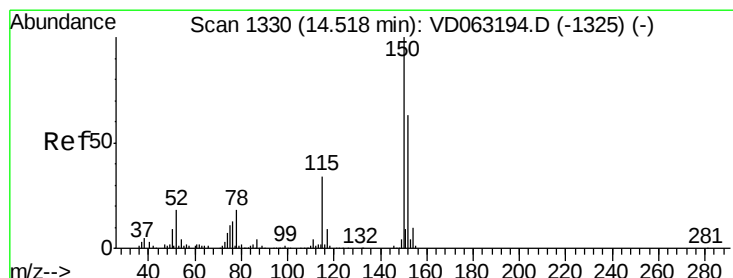
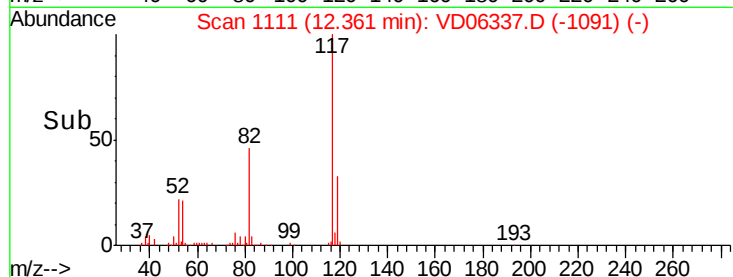
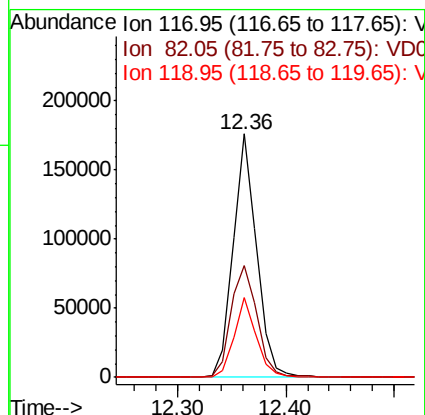
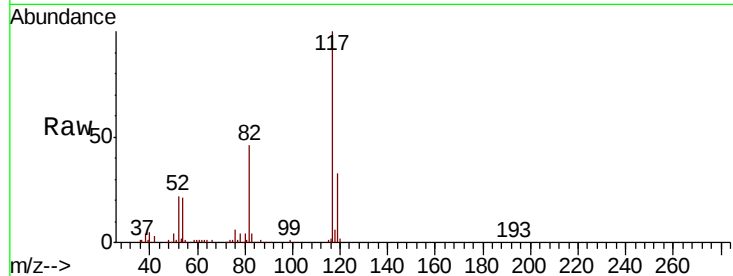




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD06337.D
Acq: 3 Aug 2019 2:22

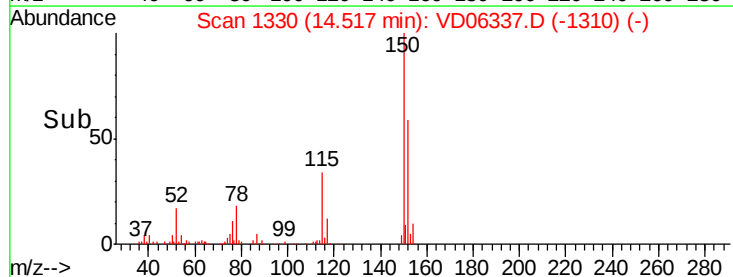
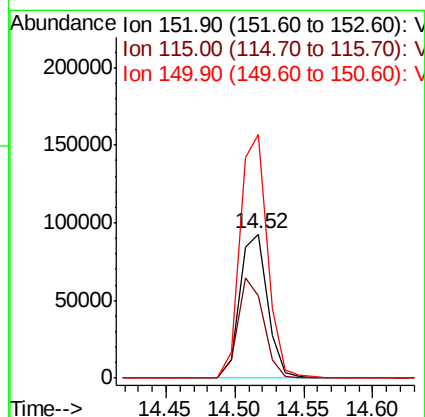
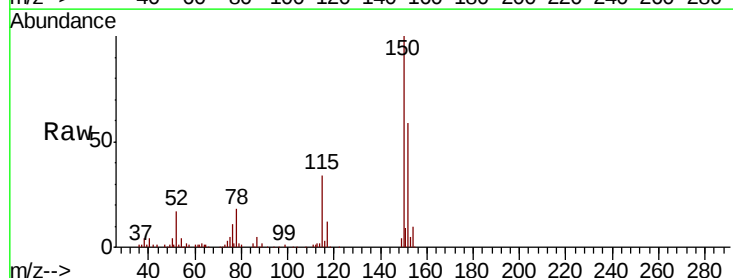
Instrument :
MSVOA_D
ClientSampleId :

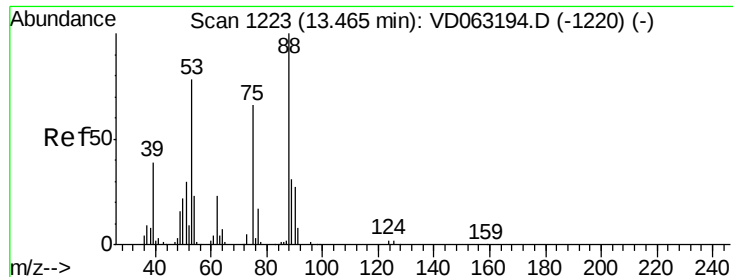
Tgt Ion:117 Resp: 266703
Ion Ratio Lower Upper
117 100
82 46.0 40.1 60.1
119 32.9 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD06337.D
Acq: 3 Aug 2019 2:22

Tgt Ion:152 Resp: 130939
Ion Ratio Lower Upper
152 100
115 57.1 27.5 82.4
150 169.3 0.0 320.6





#81

trans-1,4-Dichloro-2-butene

Concen: 114.201 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD06337.D

Acq: 3 Aug 2019 2:22

Instrument :

MSVOA_D

ClientSampleId :

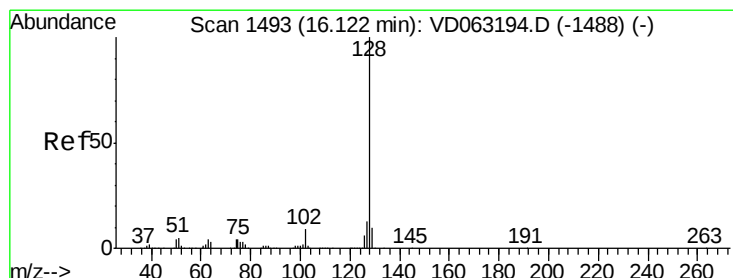
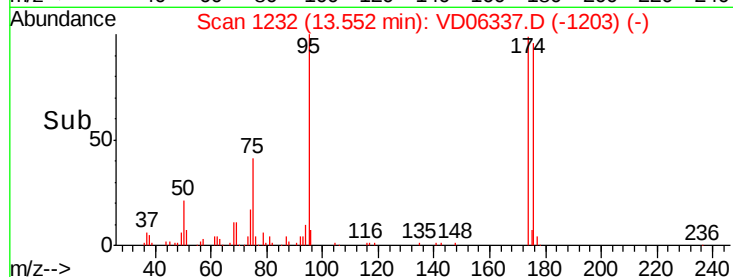
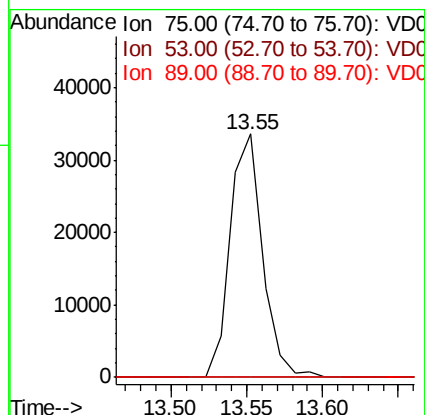
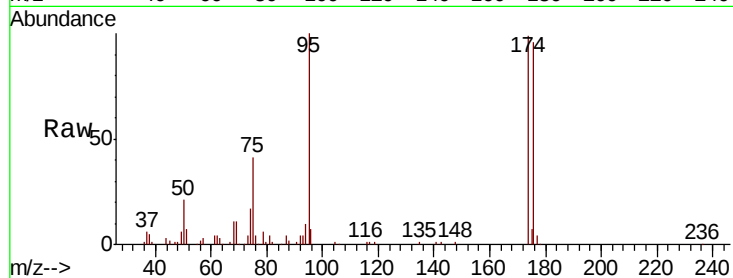
Tgt Ion: 75 Resp: 49874

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

89 0.0 37.4 56.0#



#95

Naphthalene

Concen: 1.765 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD06337.D

Acq: 3 Aug 2019 2:22

Tgt Ion: 128 Resp: 7150

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 10.2 7.8 11.8

