

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082219\
 Data File : VD063738.D
 Acq On : 22 Aug 2019 17:23
 Operator : JC/SY
 Sample : K4404-01
 Misc : 6.22g/5ml/MSVOA_D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T1-K1-(2.5)

Quant Time: Aug 23 06:59:49 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	31366	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	52720	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	52764	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	28856	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	41594	124.06	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	248.12%	
35) Dibromofluoromethane	6.92	113	30487	68.66	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	137.32%	
50) Toluene-d8	10.41	98	59689	61.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.30%	
62) 4-Bromofluorobenzene	13.55	95	28626	64.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	129.40%	

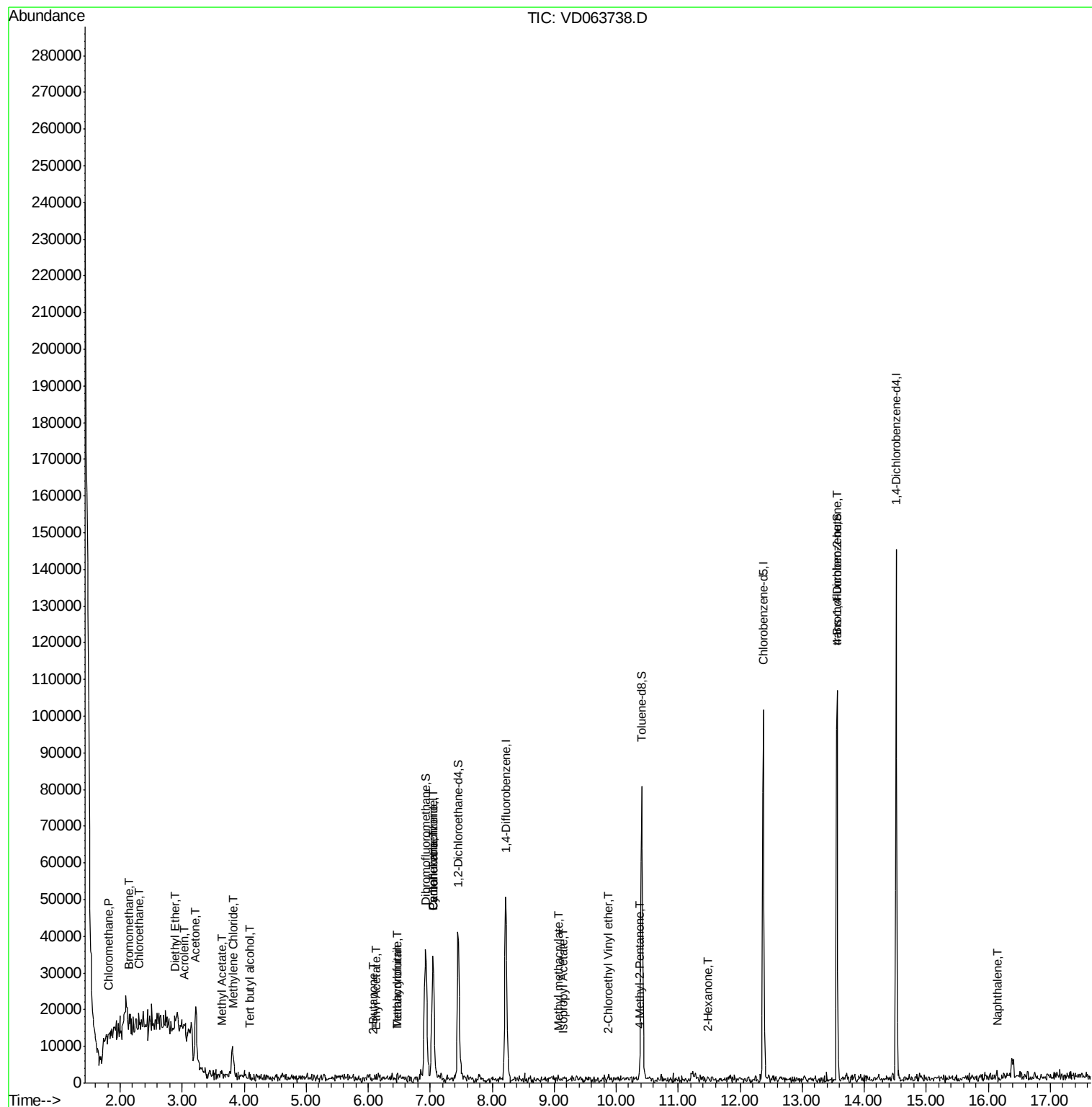
Target Compounds						Qvalue
3) Chloromethane	1.80	50	470	1.585	ug/l #	41
5) Bromomethane	2.13	94	2142	15.424	ug/l #	3
6) Chloroethane	2.31	64	250	1.857	ug/l #	1
8) Diethyl Ether	2.87	74	576	7.067	ug/l #	32
11) Tert butyl alcohol	4.08	59	185	12.675	ug/l #	71
13) Acrolein	3.02	56	254	17.680	ug/l #	49
16) Acetone	3.22	43	27056	396.975	ug/l #	91
18) Methyl Acetate	3.65	43	272	2.107	ug/l #	57
20) Methylene Chloride	3.83	84	5510	18.696	ug/l #	57
25) 2-Butanone	6.09	43	417	6.195	ug/l #	58
29) Tetrahydrofuran	6.46	42	557	17.758	ug/l #	46
31) Cyclohexane	7.05	56	569	1.880	ug/l #	74
37) Ethyl Acetate	6.13	43	226	1.157	ug/l #	73
38) Carbon Tetrachloride	7.05	117	2745	3.908	ug/l #	13
41) Methacrylonitrile	6.47	41	249	1.013	ug/l #	37
43) Isopropyl Acetate	9.13	43	400	1.529	ug/l #	48
48) Methyl methacrylate	9.06	41	207	1.167	ug/l #	18
51) 4-Methyl-2-Pentanone	10.36	43	247	1.380	ug/l #	40
58) 2-Chloroethyl Vinyl ether	9.86	63	464	3.629	ug/l #	49
59) 2-Hexanone	11.49	43	225	1.728	ug/l #	30
81) trans-1,4-Dichloro-2-buten	13.56	75	12255	137.681	ug/l #	1
95) Naphthalene	16.13	128	1109	1.292	ug/l #	71

(#) = 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. -0.02 min

Lab File: VD063738.D

Acq: 22 Aug 2019 17:23

Instrument :

MSVOA_D

ClientSampleId :

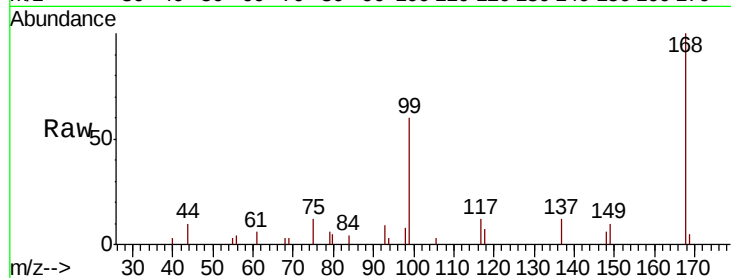
T1-K1-(2.5)

Tgt Ion:168 Resp: 31366

Ion Ratio Lower Upper

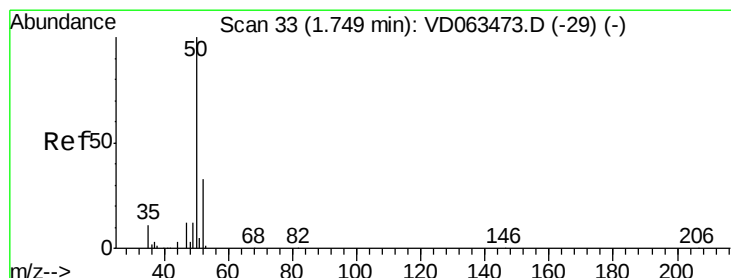
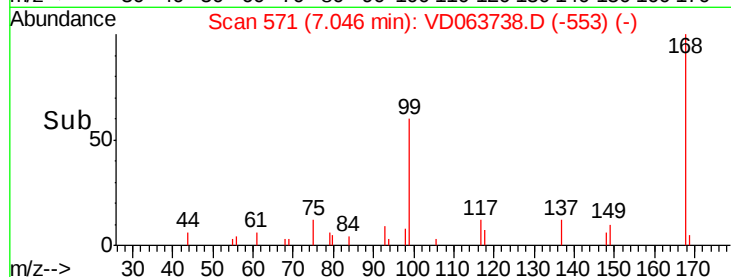
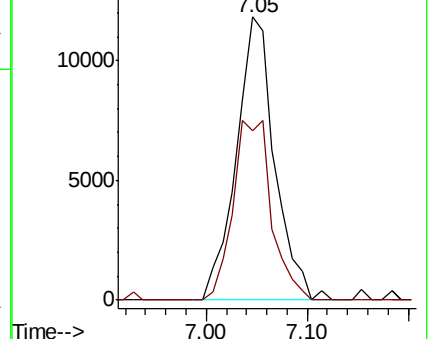
168 100

99 59.9 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 1.585 ug/l

RT: 1.80 min Scan# 38

Delta R.T. 0.05 min

Lab File: VD063738.D

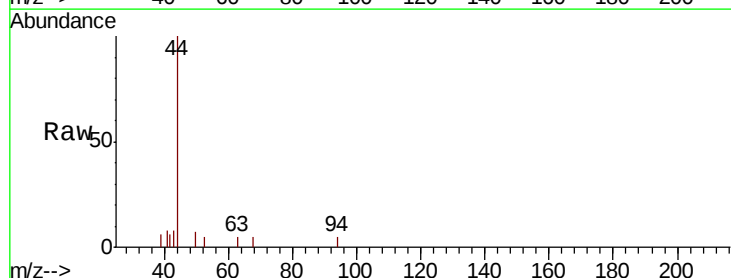
Acq: 22 Aug 2019 17:23

Tgt Ion: 50 Resp: 470

Ion Ratio Lower Upper

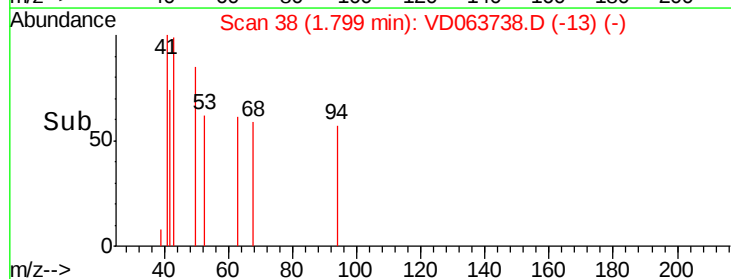
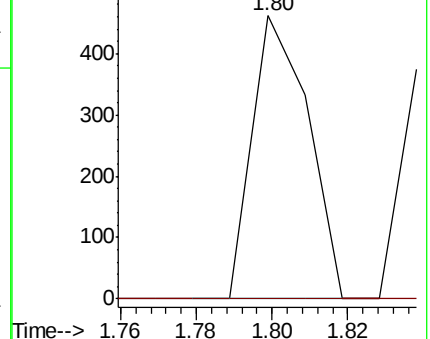
50 100

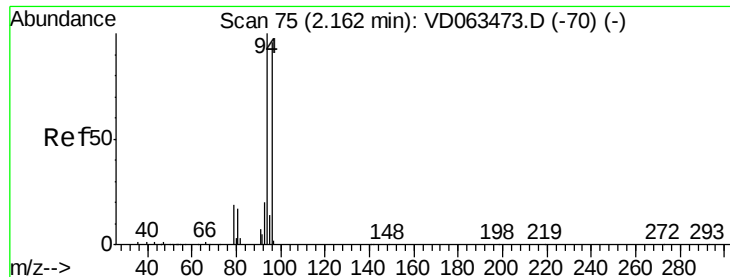
52 0.0 26.6 40.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 15.424 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.03 min

Lab File: VD063738.D

Acq: 22 Aug 2019 17:23

Instrument :

MSVOA_D

ClientSampleId :

T1-K1-(2.5)

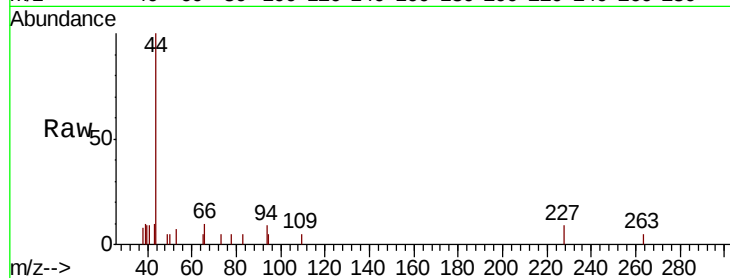
Tgt Ion: 94 Resp: 2142

Ion Ratio Lower Upper

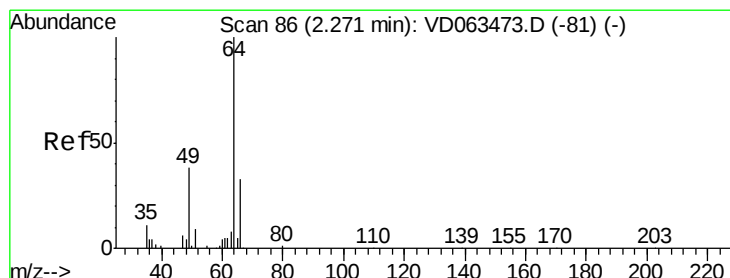
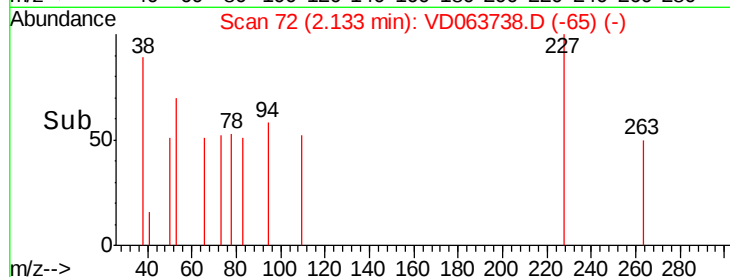
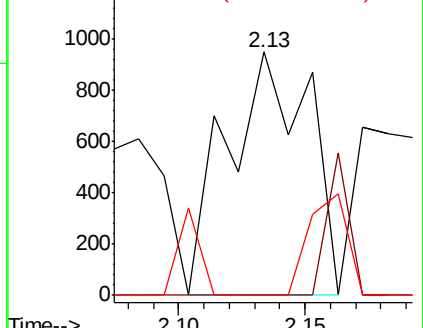
94 100

96 0.0 76.5 114.7#

93 63.0 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



#6

Chloroethane

Concen: 1.857 ug/l

RT: 2.31 min Scan# 90

Delta R.T. 0.04 min

Lab File: VD063738.D

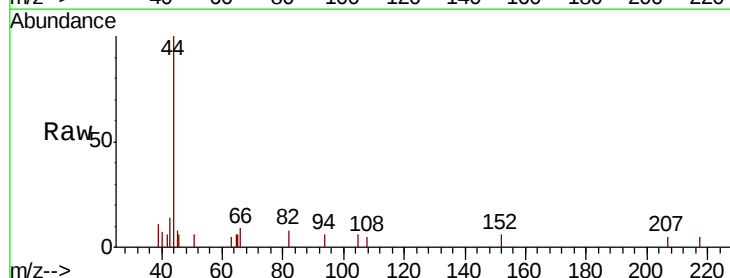
Acq: 22 Aug 2019 17:23

Tgt Ion: 64 Resp: 250

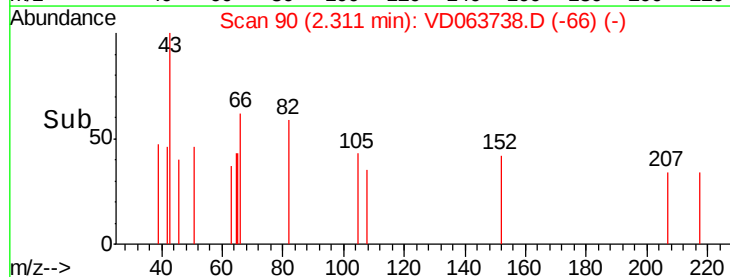
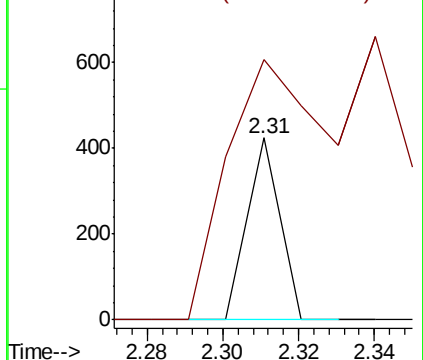
Ion Ratio Lower Upper

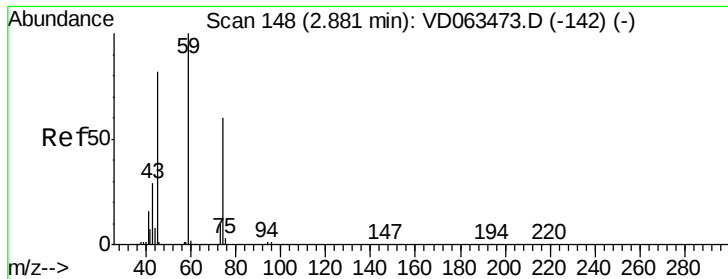
64 100

66 143.2 26.3 39.5#



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC





#8

Diethyl Ether

Concen: 7.067 ug/l

RT: 2.87 min Scan# 147

Delta R.T. -0.01 min

Lab File: VD063738.D

Acq: 22 Aug 2019 17:23

Instrument :

MSVOA_D

ClientSampleId :

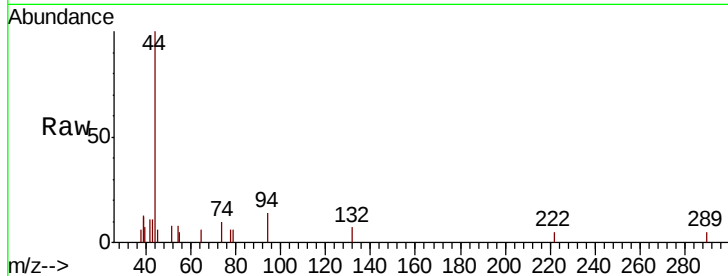
T1-K1-(2.5)

Tgt Ion: 74 Resp: 576

Ion Ratio Lower Upper

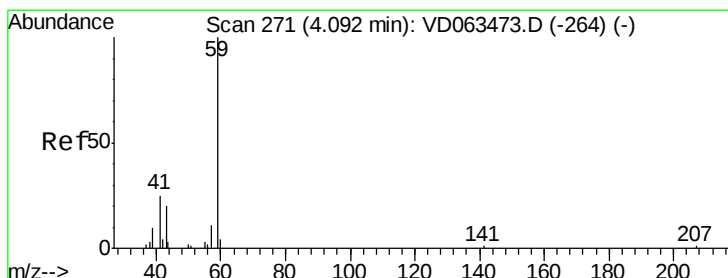
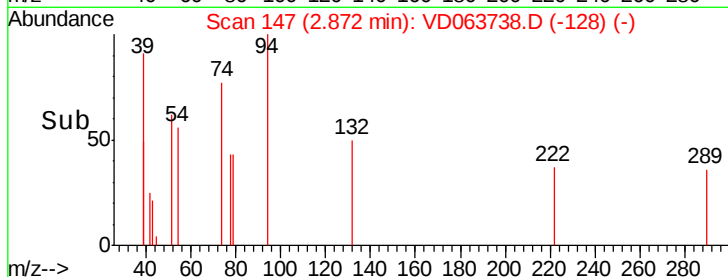
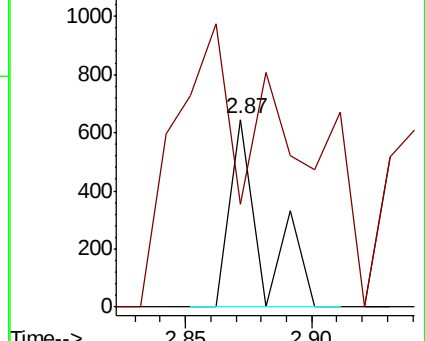
74 100

45 54.7 68.5 205.5#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 12.675 ug/l

RT: 4.08 min Scan# 270

Delta R.T. -0.01 min

Lab File: VD063738.D

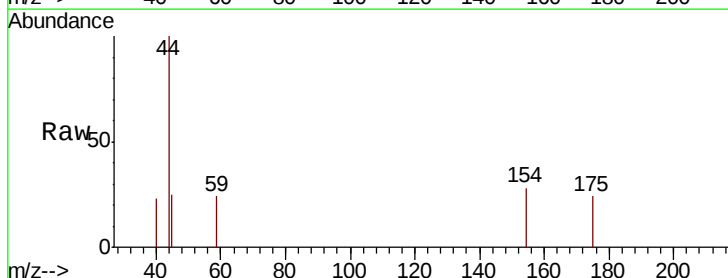
Acq: 22 Aug 2019 17:23

Tgt Ion: 59 Resp: 185

Ion Ratio Lower Upper

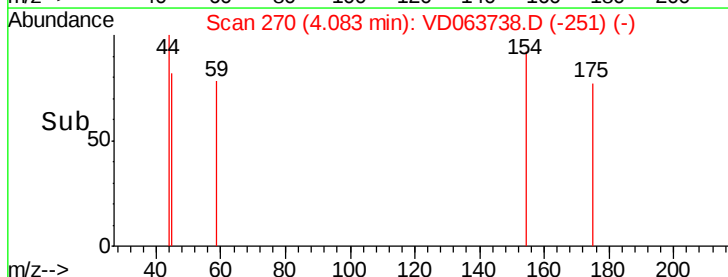
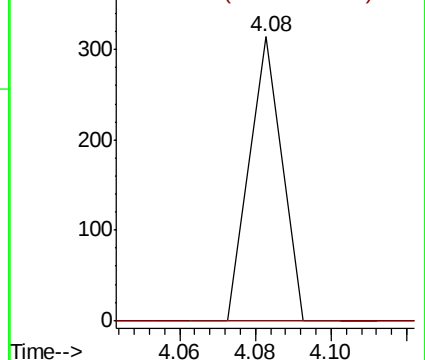
59 100

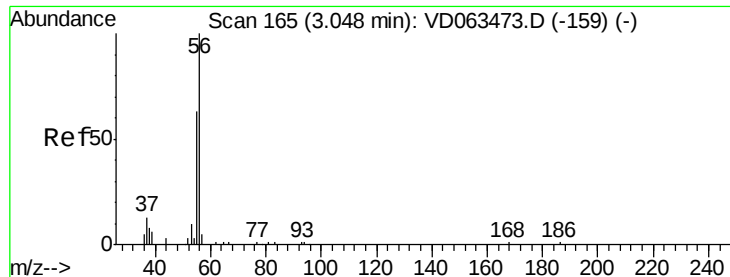
57 0.0 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 17.680 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.03 min

Lab File: VD063738.D

Acq: 22 Aug 2019 17:23

Instrument :

MSVOA_D

ClientSampleId :

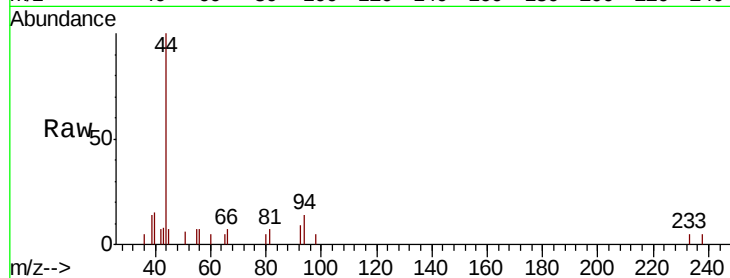
T1-K1-(2.5)

Tgt Ion: 56 Resp: 254

Ion Ratio Lower Upper

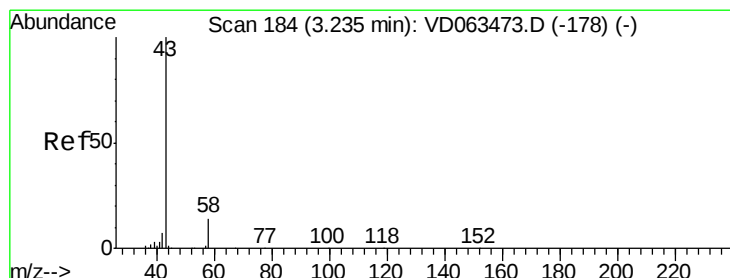
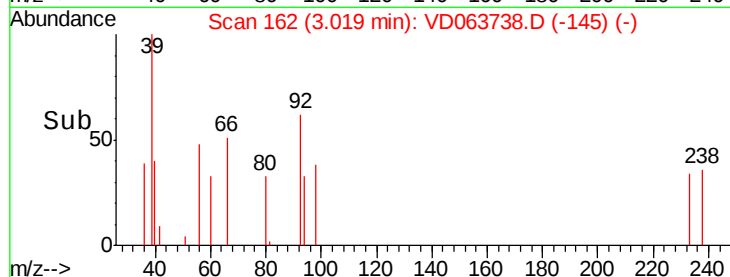
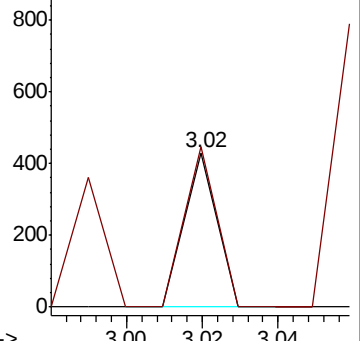
56 100

55 104.0 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: 396.975 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.02 min

Lab File: VD063738.D

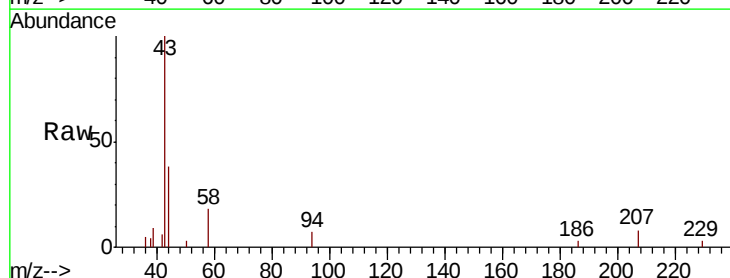
Acq: 22 Aug 2019 17:23

Tgt Ion: 43 Resp: 27056

Ion Ratio Lower Upper

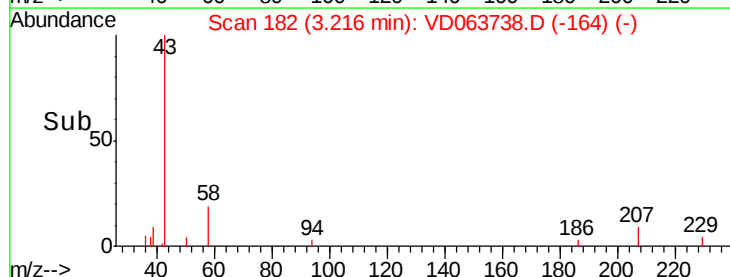
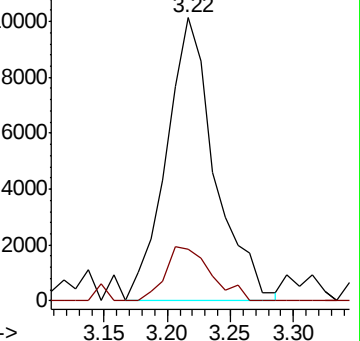
43 100

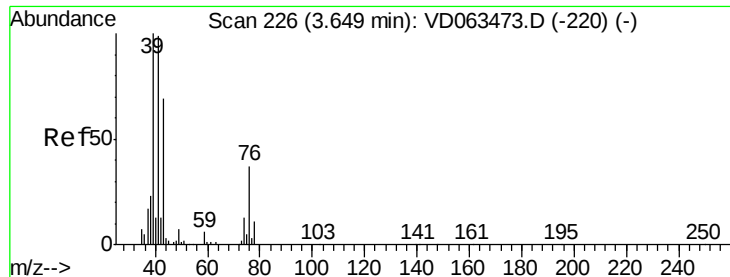
58 18.1 11.4 17.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

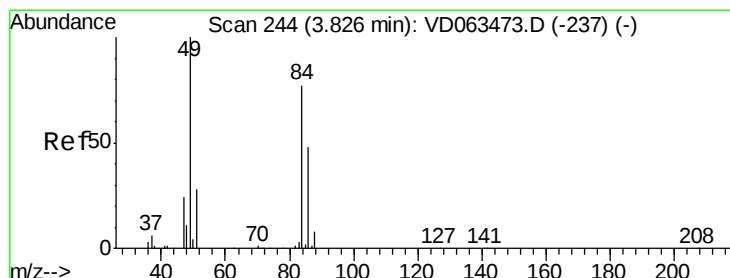
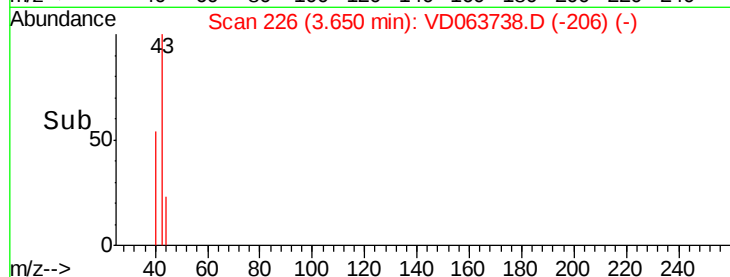
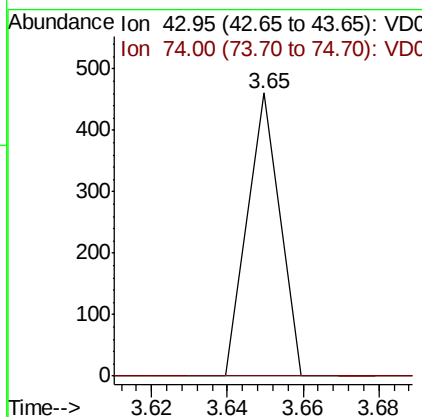
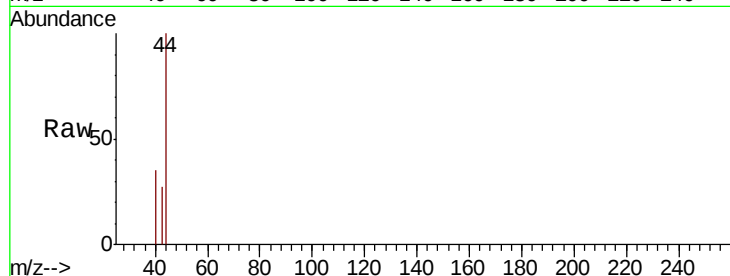




#18
Methyl Acetate
Concen: 2.107 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.00 min
Lab File: VD063738.D
Acq: 22 Aug 2019 17:23

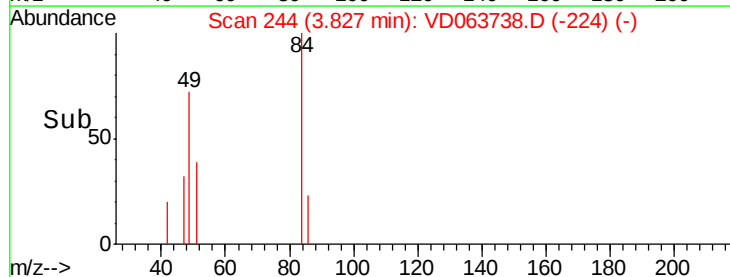
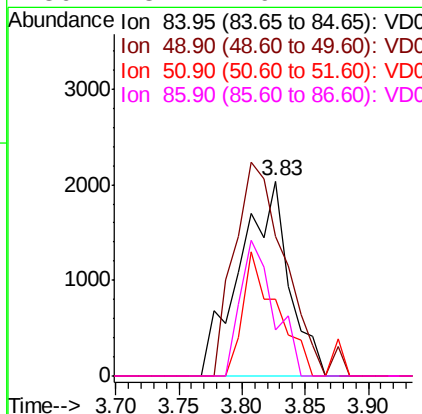
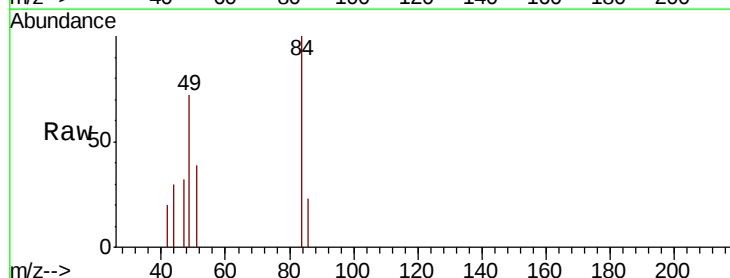
Instrument :
MSVOA_D
ClientSampleId :
T1-K1-(2.5)

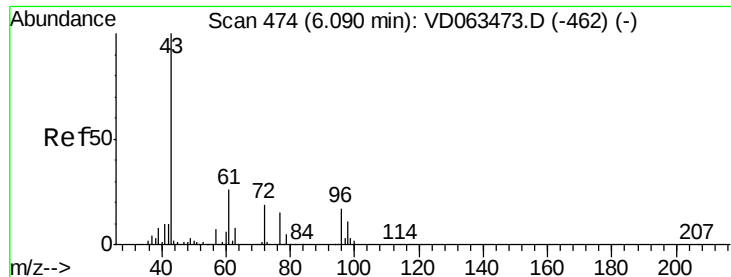
Tgt Ion: 43 Resp: 272
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#



#20
Methylene Chloride
Concen: 18.696 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.00 min
Lab File: VD063738.D
Acq: 22 Aug 2019 17:23

Tgt Ion: 84 Resp: 5510
Ion Ratio Lower Upper
84 100
49 71.6 103.4 155.2#
51 39.5 28.5 42.7
86 23.4 49.4 74.2#





#25

2-Butanone

Concen: 6.195 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.00 min

Lab File: VD063738.D

Acq: 22 Aug 2019 17:23

Instrument :

MSVOA_D

ClientSampleId :

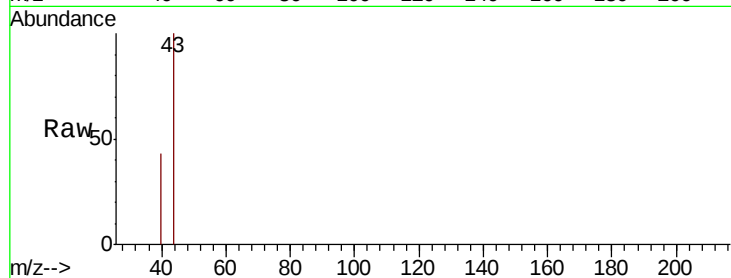
T1-K1-(2.5)

Tgt Ion: 43 Resp: 417

Ion Ratio Lower Upper

43 100

72 0.0 15.1 22.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.09

800

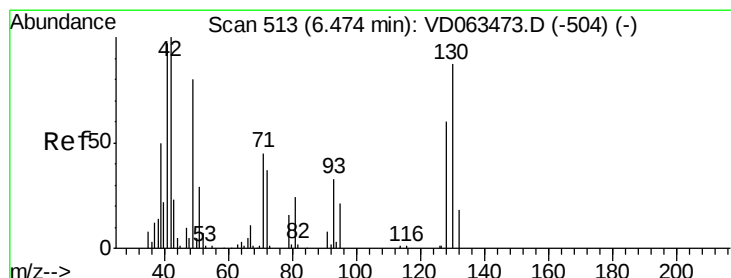
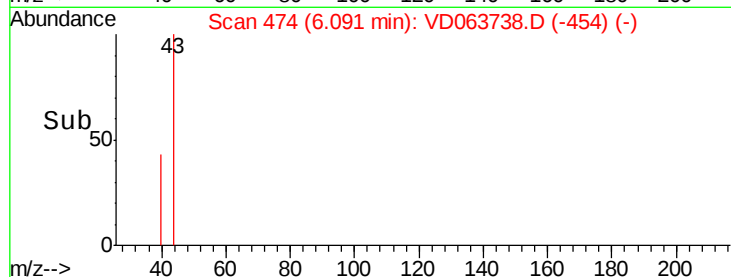
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 17.758 ug/l

RT: 6.46 min Scan# 512

Delta R.T. -0.01 min

Lab File: VD063738.D

Acq: 22 Aug 2019 17:23

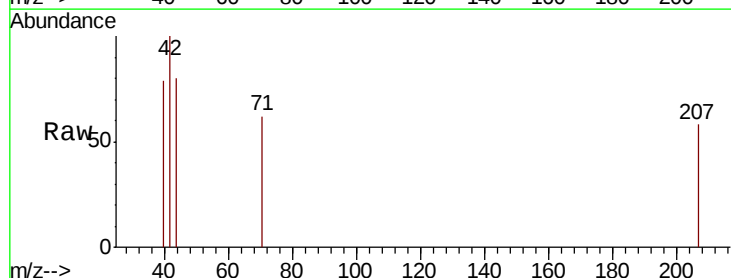
Tgt Ion: 42 Resp: 557

Ion Ratio Lower Upper

42 100

72 0.0 31.5 47.3#

71 70.9 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

800

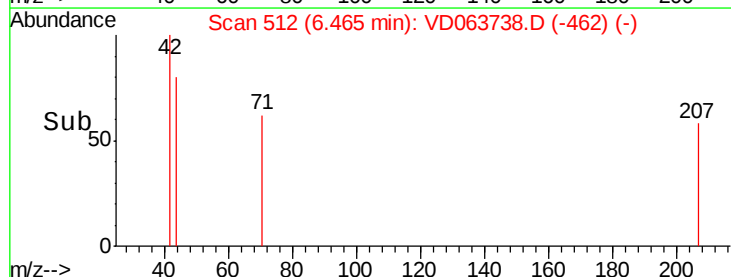
600

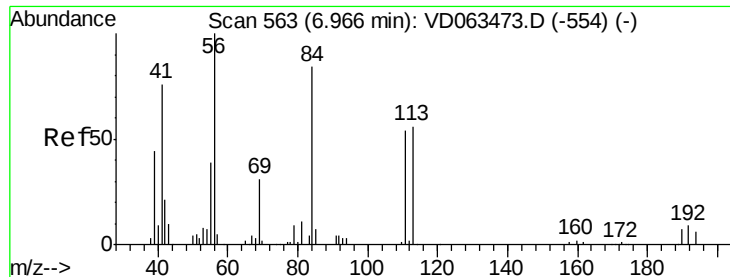
400

200

0

Time-->

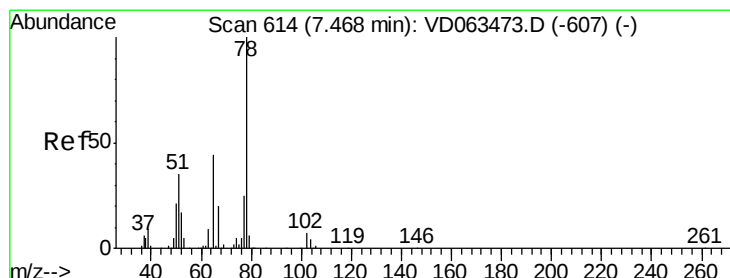
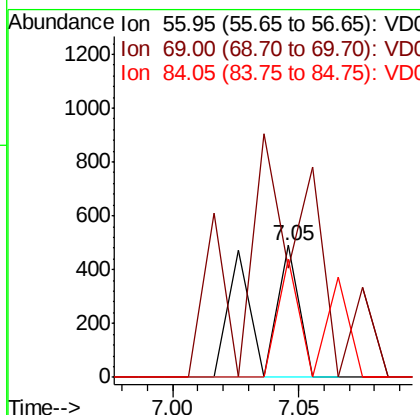
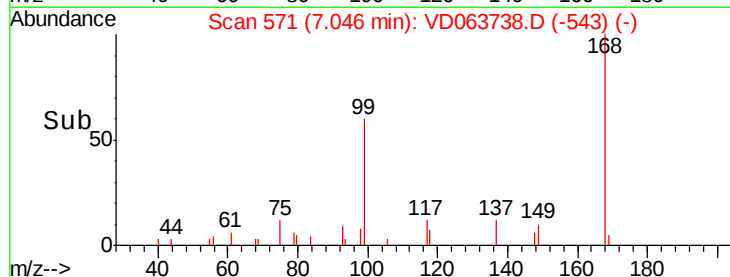
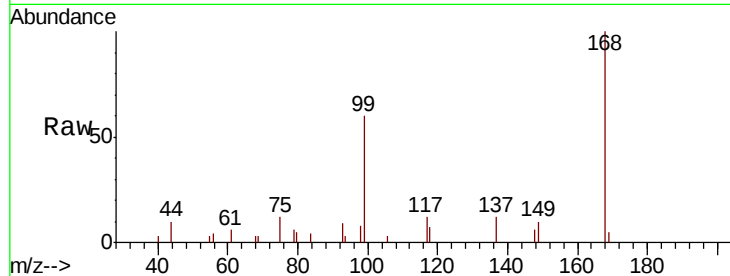




#31
Cyclohexane
Concen: 1.880 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.08 min
Lab File: VD063738.D
Acq: 22 Aug 2019 17:23

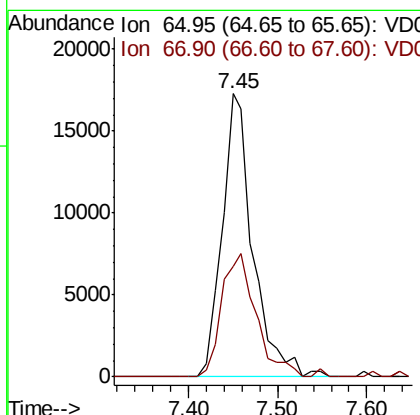
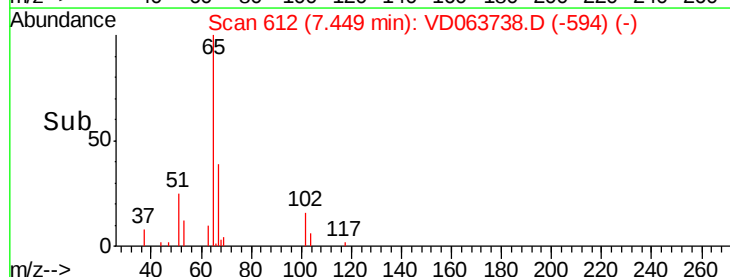
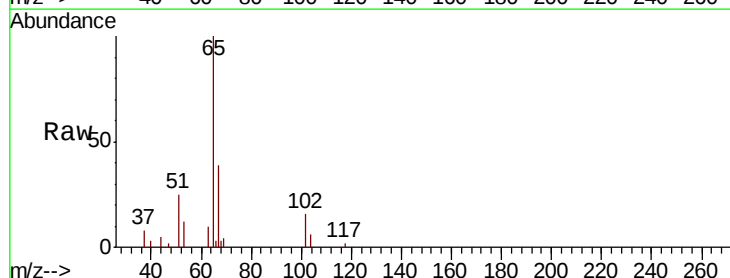
Instrument :
MSVOA_D
ClientSampleId :
T1-K1-(2.5)

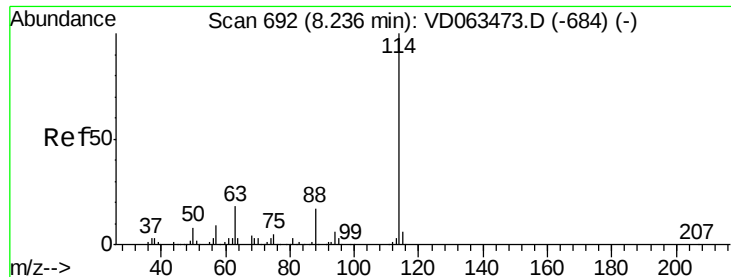
Tgt Ion: 56 Resp: 569
Ion Ratio Lower Upper
56 100
69 82.9 25.0 37.6#
84 89.2 69.7 104.5



#33
1,2-Dichloroethane-d4
Concen: 124.058 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.02 min
Lab File: VD063738.D
Acq: 22 Aug 2019 17:23

Tgt Ion: 65 Resp: 41594
Ion Ratio Lower Upper
65 100
67 39.0 0.0 89.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.02 min

Lab File: VD063738.D

Acq: 22 Aug 2019 17:23

Instrument :

MSVOA_D

ClientSampleId :

T1-K1-(2.5)

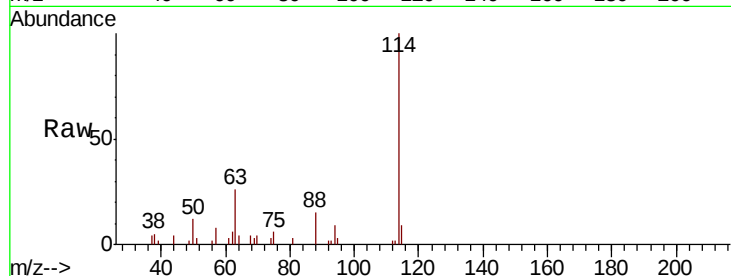
Tgt Ion:114 Resp: 52720

Ion Ratio Lower Upper

114 100

63 25.7 0.0 36.2

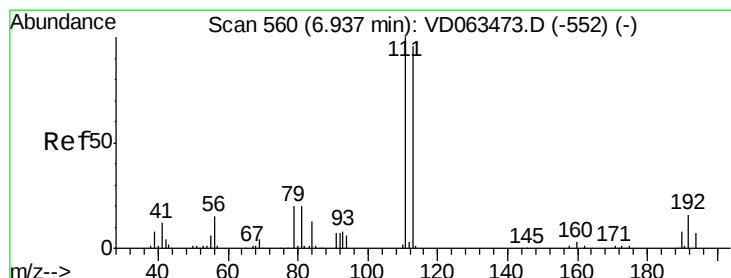
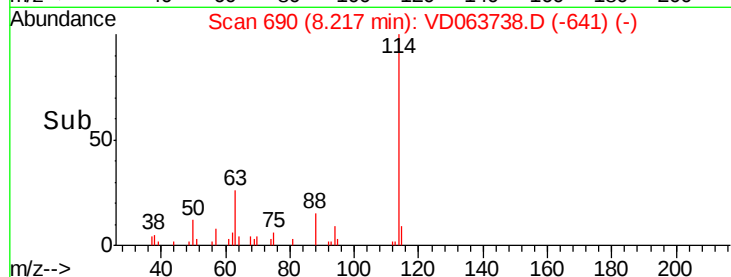
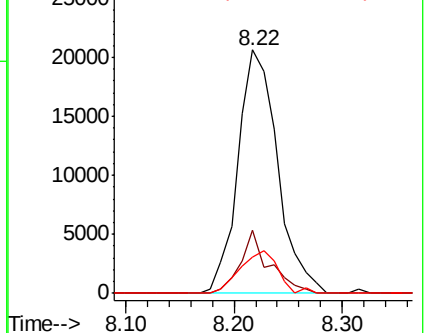
88 15.1 0.0 35.0



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: 68.663 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063738.D

Acq: 22 Aug 2019 17:23

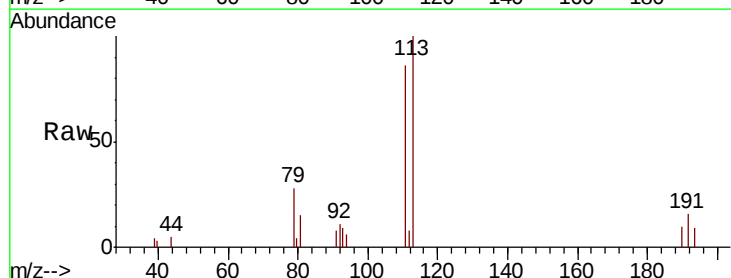
Tgt Ion:113 Resp: 30487

Ion Ratio Lower Upper

113 100

111 86.2 83.1 124.7

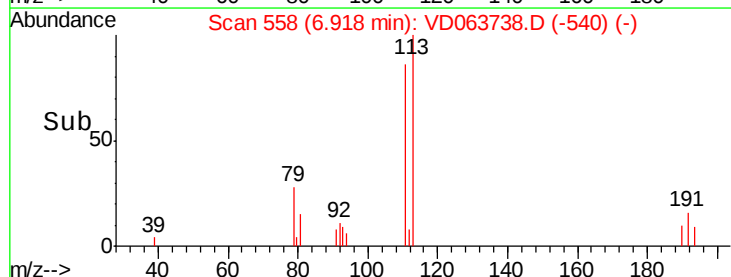
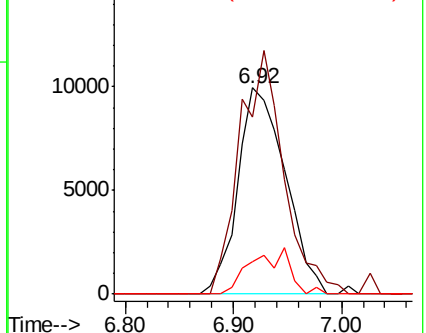
192 15.6 13.1 19.7

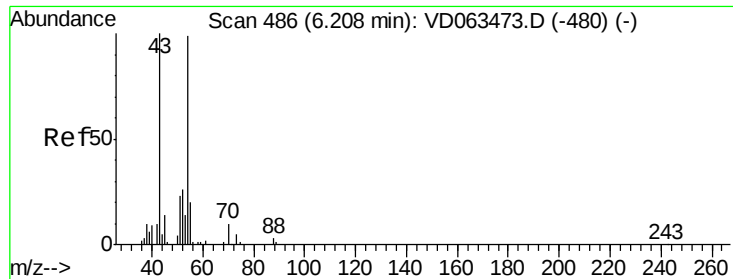


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#37

Ethyl Acetate

Concen: 1.157 ug/l

RT: 6.13 min Scan# 478

Delta R.T. -0.08 min

Lab File: VD063738.D

Acq: 22 Aug 2019 17:23

Instrument :

MSVOA_D

ClientSampleId :

T1-K1-(2.5)

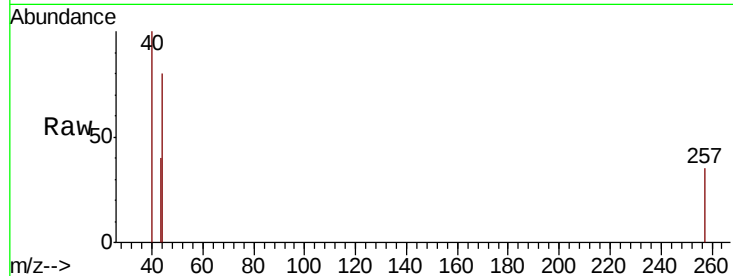
Tgt Ion: 43 Resp: 226

Ion Ratio Lower Upper

43 100

61 0.0 9.0 13.6#

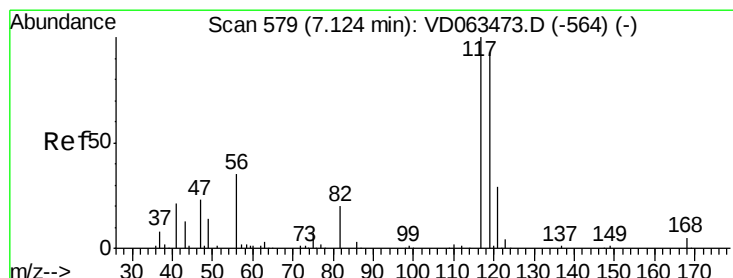
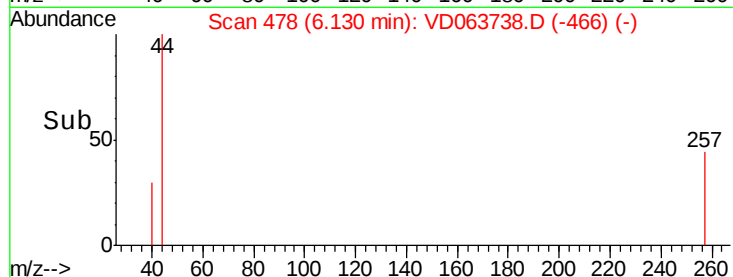
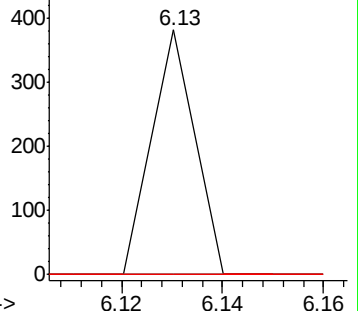
70 0.0 6.9 10.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 3.908 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063738.D

Acq: 22 Aug 2019 17:23

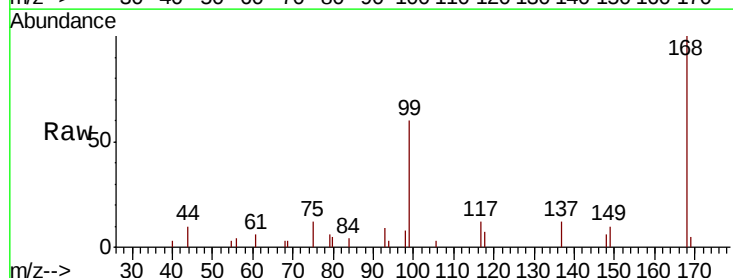
Tgt Ion: 117 Resp: 2745

Ion Ratio Lower Upper

117 100

119 0.0 74.2 111.2#

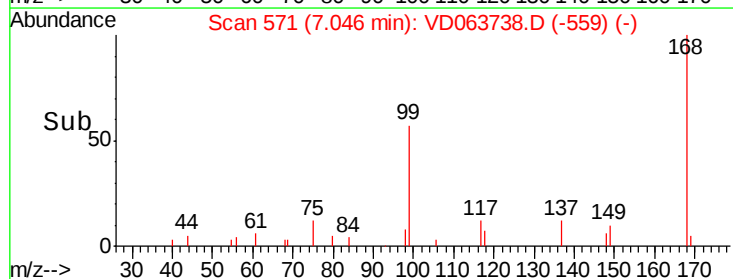
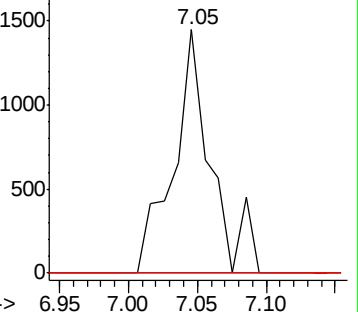
121 0.0 23.1 34.7#

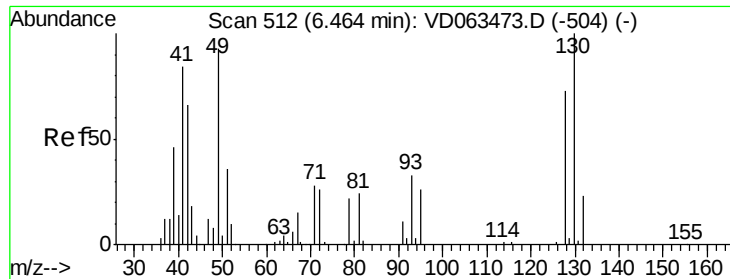


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#41

Methacrylonitrile

Concen: 1.013 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.01 min

Lab File: VD063738.D

Acq: 22 Aug 2019 17:23

Instrument :

MSVOA_D

ClientSampleId :

T1-K1-(2.5)

Tgt Ion: 41 Resp: 249

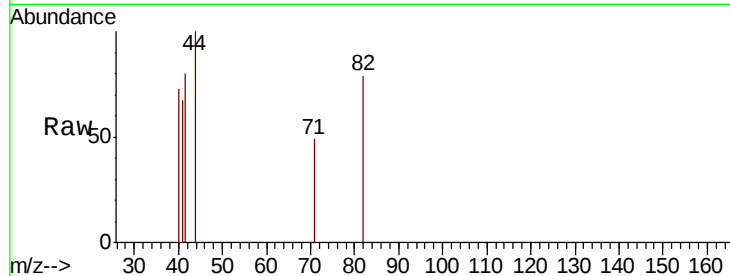
Ion Ratio Lower Upper

41 100

39 0.0 44.6 66.8#

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#

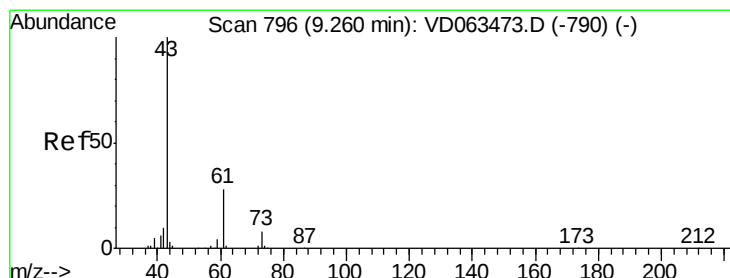
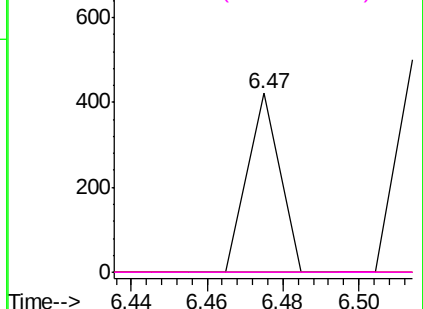
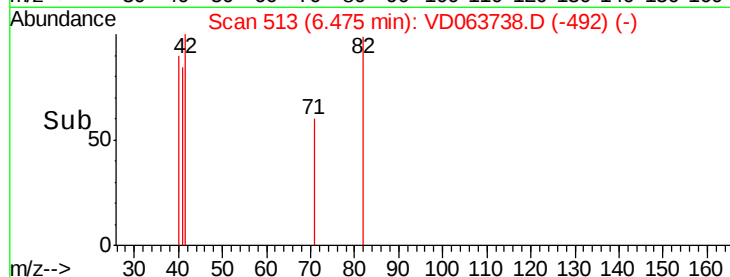


Abundance Ion 40.95 (40.65 to 41.65): VDC

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



#43

Isopropyl Acetate

Concen: 1.529 ug/l

RT: 9.13 min Scan# 783

Delta R.T. -0.13 min

Lab File: VD063738.D

Acq: 22 Aug 2019 17:23

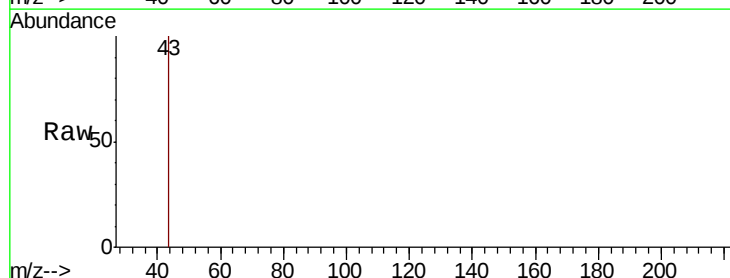
Tgt Ion: 43 Resp: 400

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.2#

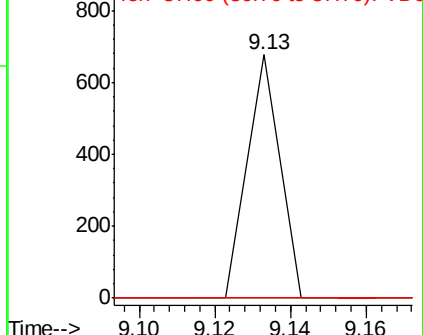
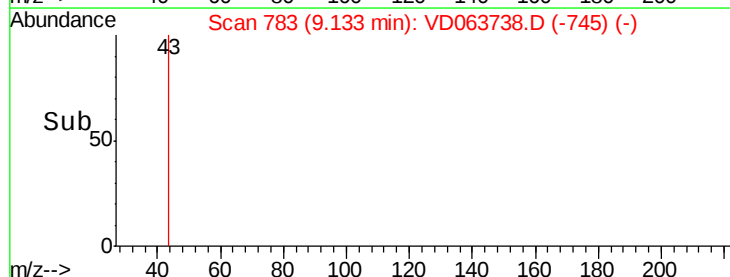
87 0.0 0.2 0.4#

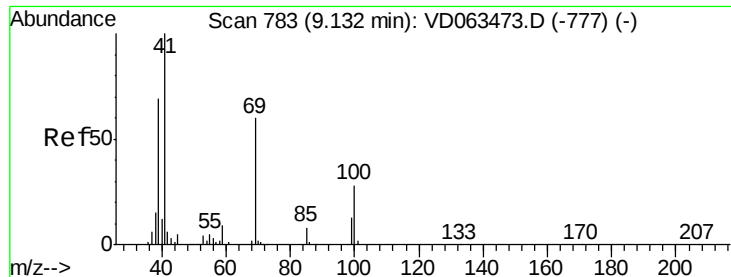


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC

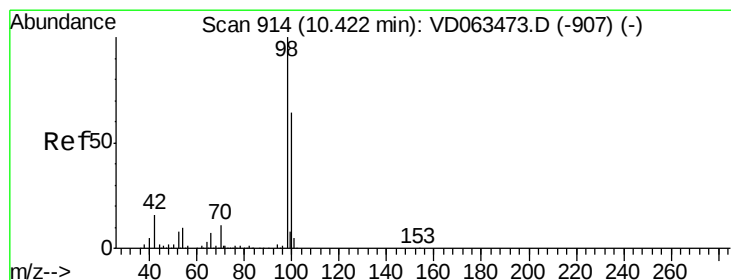
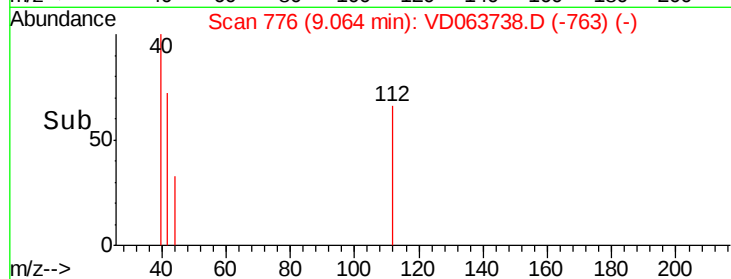
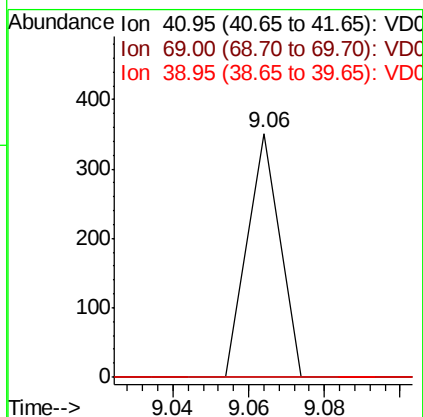
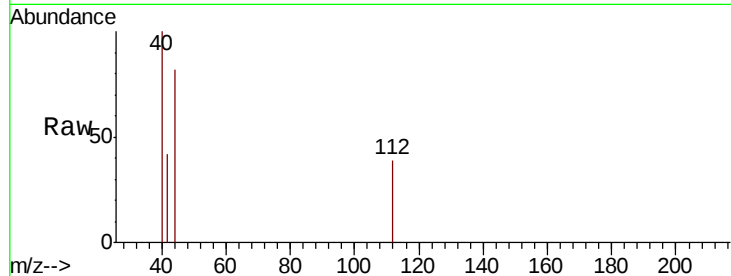




#48
Methyl methacrylate
Concen: 1.167 ug/l
RT: 9.06 min Scan# 776
Delta R.T. -0.07 min
Lab File: VD063738.D
Acq: 22 Aug 2019 17:23

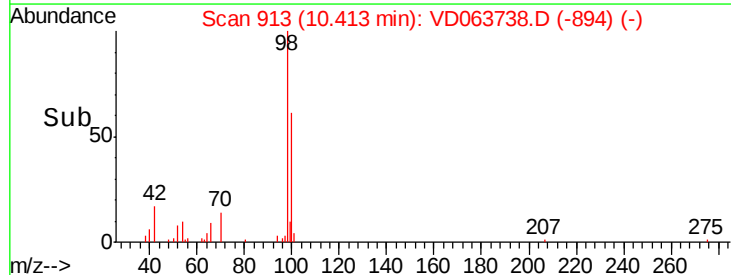
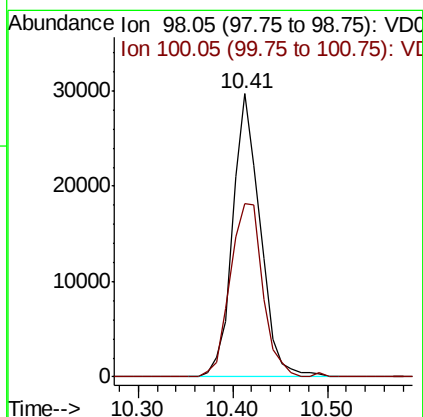
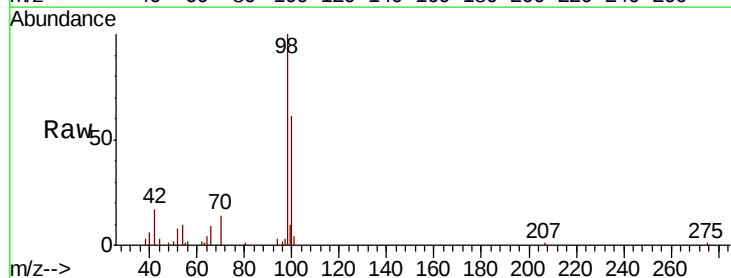
Instrument :
MSVOA_D
ClientSampleId :
T1-K1-(2.5)

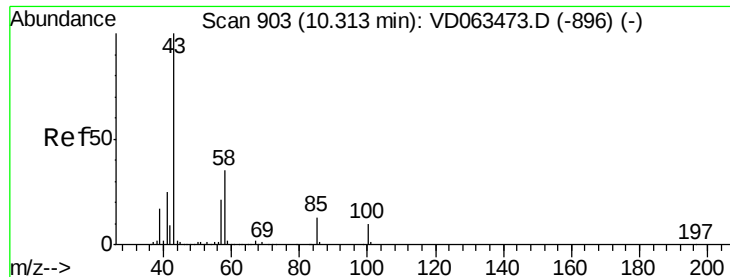
Tgt Ion: 41 Resp: 207
Ion Ratio Lower Upper
41 100
69 0.0 47.6 71.4#
39 0.0 55.7 83.5#



#50
Toluene-d8
Concen: 61.146 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.01 min
Lab File: VD063738.D
Acq: 22 Aug 2019 17:23

Tgt Ion: 98 Resp: 59689
Ion Ratio Lower Upper
98 100
100 61.2 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.380 ug/l

RT: 10.36 min Scan# 908

Delta R.T. 0.05 min

Lab File: VD063738.D

Acq: 22 Aug 2019 17:23

Instrument :

MSVOA_D

ClientSampled :

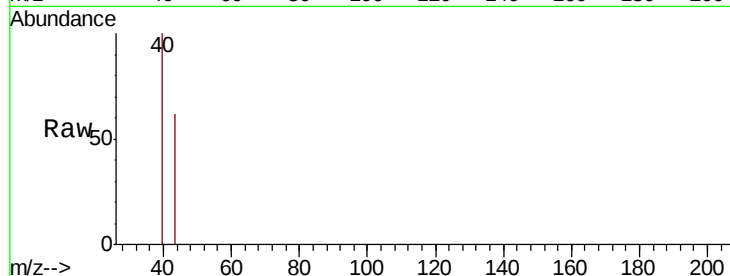
T1-K1-(2.5)

Tgt Ion: 43 Resp: 247

Ion Ratio Lower Upper

43 100

58 0.0 28.0 42.0#

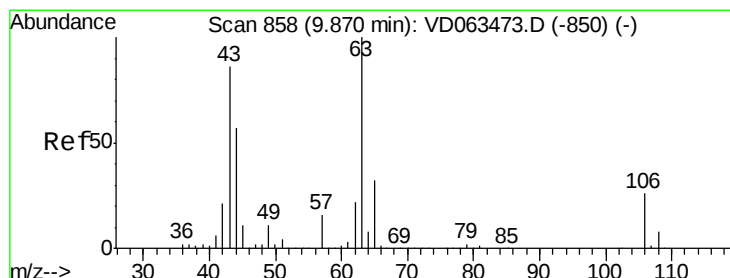
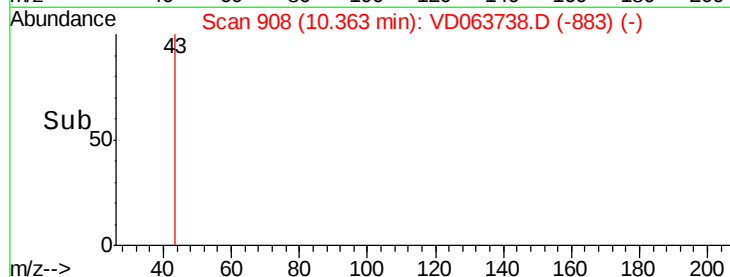


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.36

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 3.629 ug/l

RT: 9.86 min Scan# 857

Delta R.T. -0.01 min

Lab File: VD063738.D

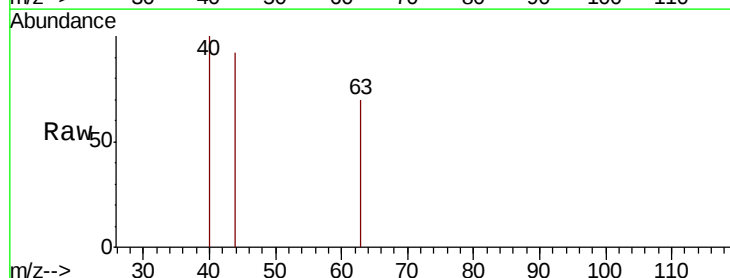
Acq: 22 Aug 2019 17:23

Tgt Ion: 63 Resp: 464

Ion Ratio Lower Upper

63 100

106 0.0 20.8 31.2#

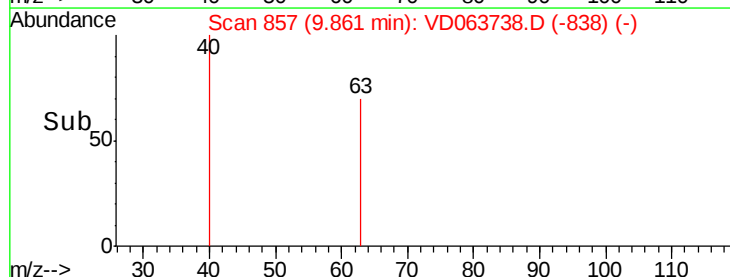


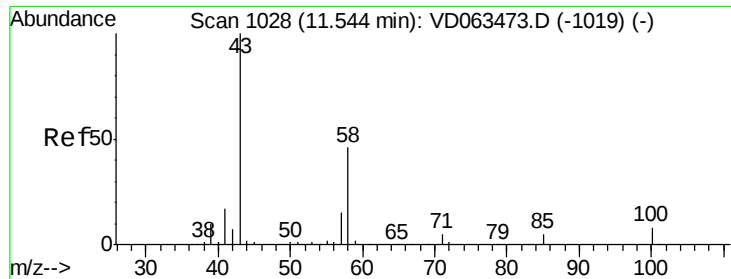
Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

9.86

Time-->

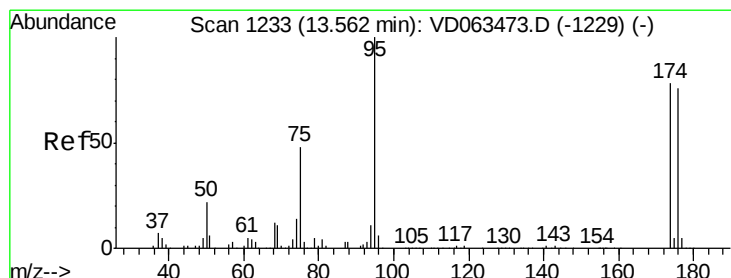
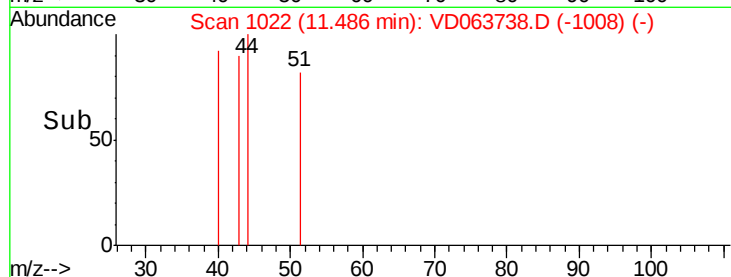
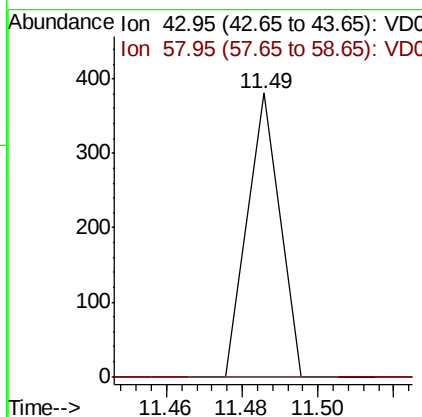
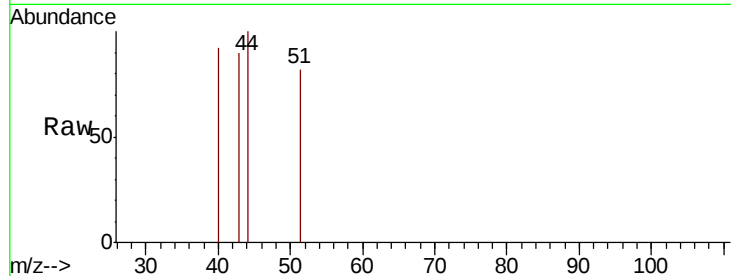




#59
2-Hexanone
Concen: 1.728 ug/l
RT: 11.49 min Scan# 1022
Delta R.T. -0.06 min
Lab File: VD063738.D
Acq: 22 Aug 2019 17:23

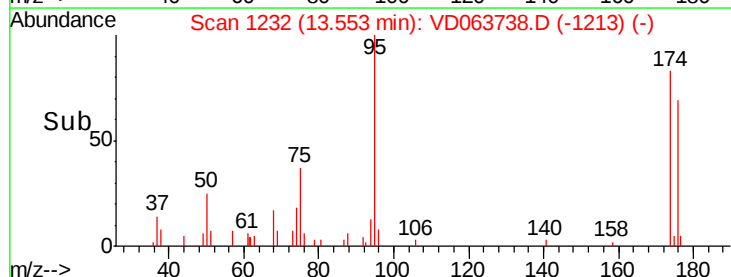
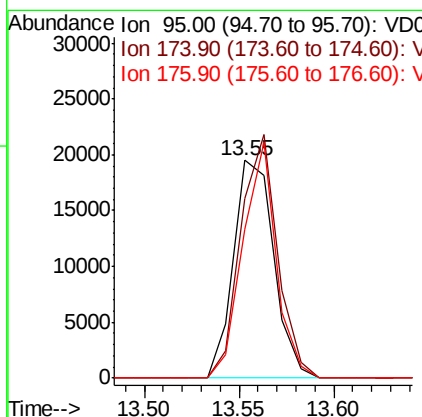
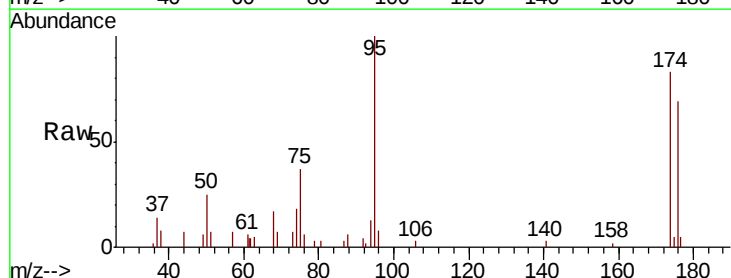
Instrument :
MSVOA_D
ClientSampleId :
T1-K1-(2.5)

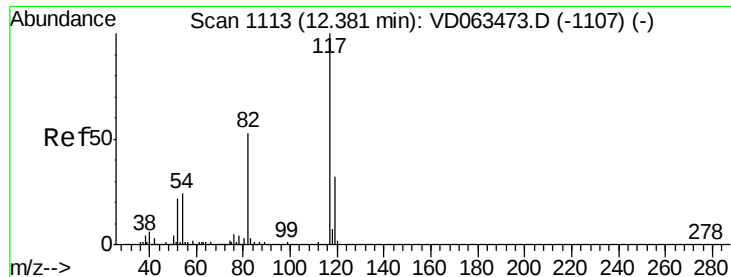
Tgt Ion: 43 Resp: 225
Ion Ratio Lower Upper
43 100
58 0.0 23.1 69.2#



#62
4-Bromofluorobenzene
Concen: 64.699 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD063738.D
Acq: 22 Aug 2019 17:23

Tgt Ion: 95 Resp: 28626
Ion Ratio Lower Upper
95 100
174 82.8 0.0 155.4
176 73.3 0.0 152.4

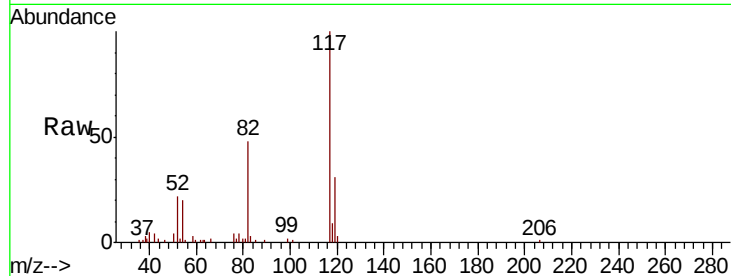




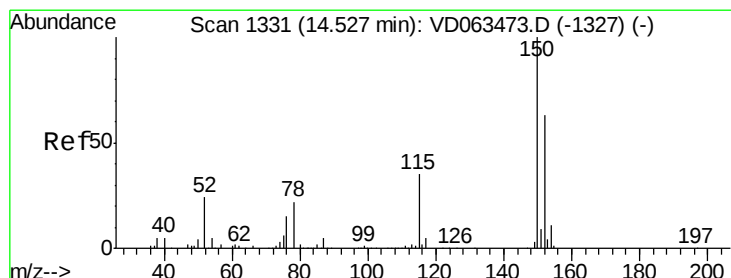
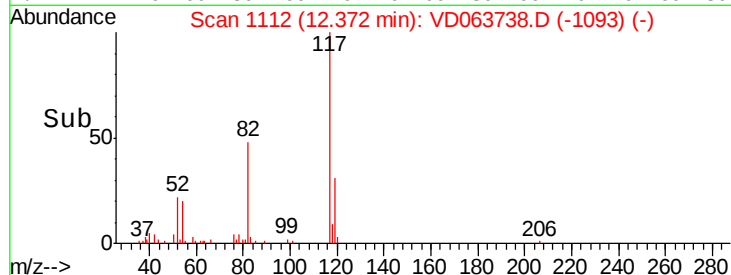
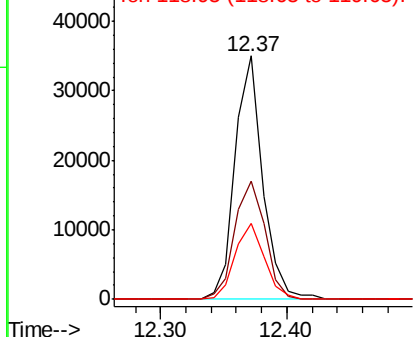
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD063738.D
Acq: 22 Aug 2019 17:23

Instrument :
MSVOA_D
ClientSampleId :
T1-K1-(2.5)

Tgt Ion:117 Resp: 52764
Ion Ratio Lower Upper
117 100
82 48.3 42.0 63.0
119 31.1 25.4 38.0

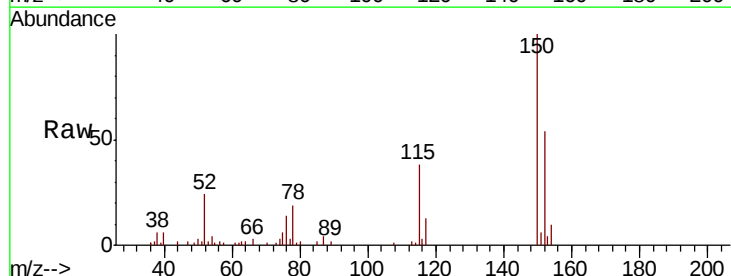


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

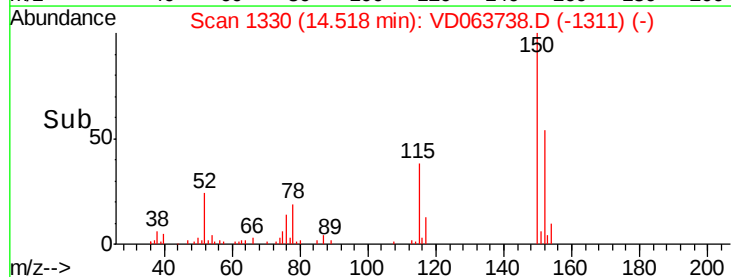
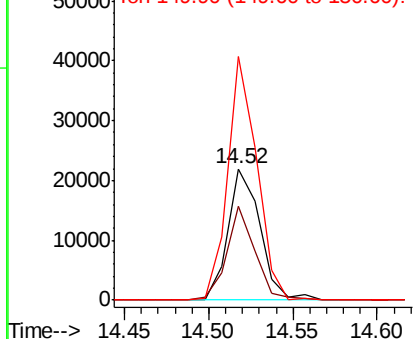


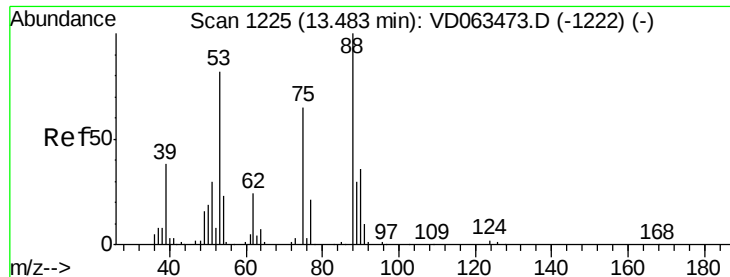
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD063738.D
Acq: 22 Aug 2019 17:23

Tgt Ion:152 Resp: 28856
Ion Ratio Lower Upper
152 100
115 71.2 30.9 92.7
150 185.4 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

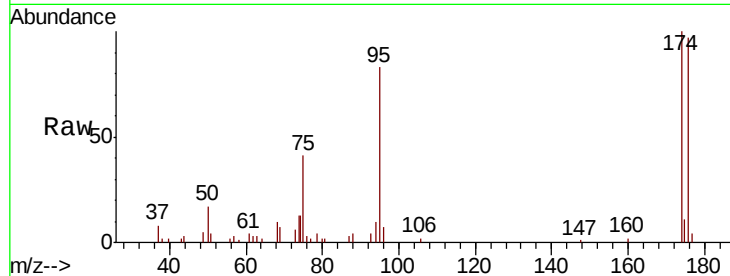




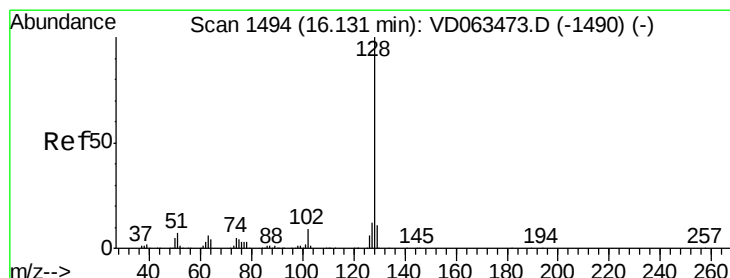
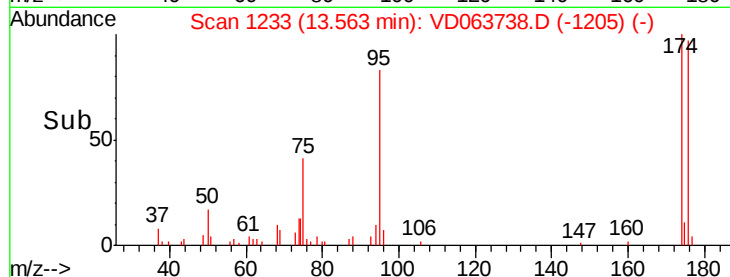
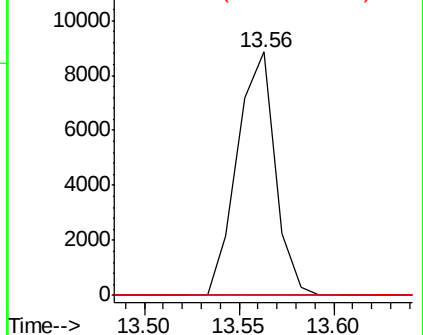
#81
 trans-1,4-Dichloro-2-butene
 Concen: 137.681 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.08 min
 Lab File: VD063738.D
 Acq: 22 Aug 2019 17:23

Instrument :
 MSVOA_D
 ClientSampleId :
 T1-K1-(2.5)

Tgt Ion: 75 Resp: 12255
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.0 151.4#
 89 0.0 37.0 55.6#

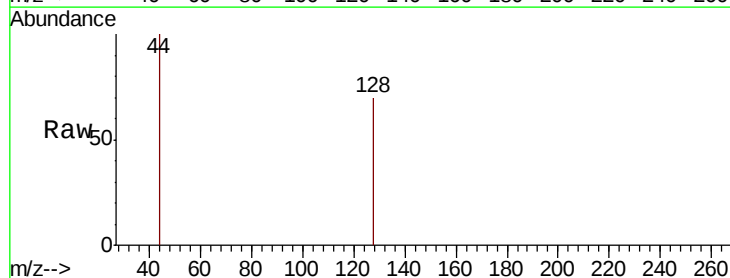


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 53.00 (52.70 to 53.70): VDC
 Ion 89.00 (88.70 to 89.70): VDC



#95
 Naphthalene
 Concen: 1.292 ug/l
 RT: 16.13 min Scan# 1494
 Delta R.T. 0.00 min
 Lab File: VD063738.D
 Acq: 22 Aug 2019 17:23

Tgt Ion: 128 Resp: 1109
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.4 14.0#
 129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

