

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012120\
 Data File : VD064909.D
 Acq On : 21 Jan 2020 14:34
 Operator : VA/SY
 Sample : L1205-02RE
 Misc : 11.66G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 22 05:27:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	676	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	1593	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	1084	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-13.58

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.36	65	62	10.40	ug/l	0.02
Spiked Amount	50.000		Recovery	=	20.80%	
35) Dibromofluoromethane	7.91	113	163	16.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	33.36%	
50) Toluene-d8	10.34	98	1500	40.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.14%	
62) 4-Bromofluorobenzene	12.64	95	110	9.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	18.58%	

Target Compounds

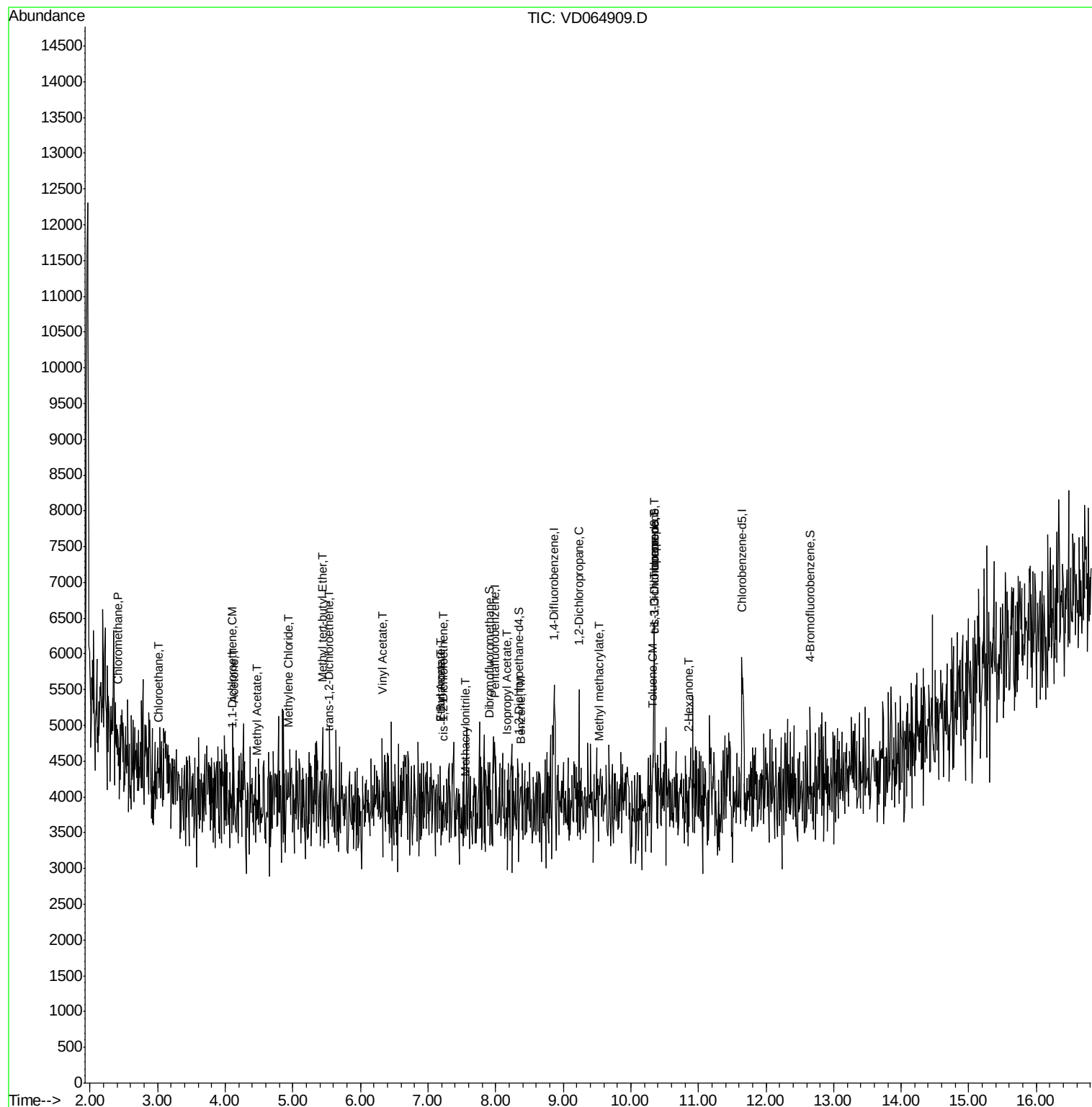
						Qvalue
3) Chloromethane	2.41	50	56	7.622	ug/l #	42
6) Chloroethane	3.01	64	58	9.662	ug/l #	42
12) 1,1-Dichloroethene	4.10	96	73	12.274	ug/l #	1
16) Acetone	4.13	43	60	46.933	ug/l #	42
18) Methyl Acetate	4.47	43	66	19.667	ug/l #	51
19) Methyl tert-butyl Ether	5.44	73	67	5.072	ug/l #	52
20) Methylene Chloride	4.94	84	56	4.764	ug/l #	7
21) trans-1,2-Dichloroethene	5.53	96	83	12.254	ug/l #	1
23) Vinyl Acetate	6.32	43	54	5.147	ug/l #	72
25) 2-Butanone	7.18	43	120	73.237	ug/l #	49
27) cis-1,2-Dichloroethene	7.24	96	121	16.553	ug/l #	1
37) Ethyl Acetate	7.18	43	120	19.922	ug/l #	70
40) Benzene	8.36	78	63	1.505	ug/l #	50
41) Methacrylonitrile	7.56	41	142	40.632	ug/l #	43
43) Isopropyl Acetate	8.17	43	54	4.504	ug/l #	52
45) 1,2-Dichloropropane	9.23	63	74	7.405	ug/l #	43
48) Methyl methacrylate	9.53	41	60	10.629	ug/l #	15
52) Toluene	10.32	92	61	2.221	ug/l #	1
53) t-1,3-Dichloropropene	10.36	75	60	4.341	ug/l #	43
54) cis-1,3-Dichloropropene	10.36	75	60	3.681	ug/l #	33
59) 2-Hexanone	10.86	43	54	13.426	ug/l #	26

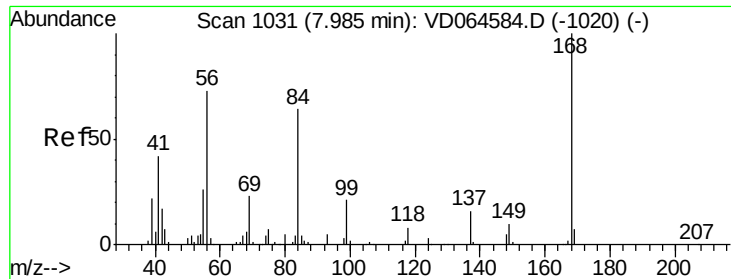
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VD064909.D

Acq: 21 Jan 2020 14:34

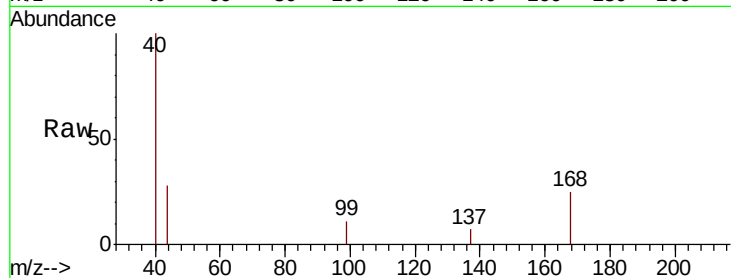
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 676

Ion Ratio Lower Upper

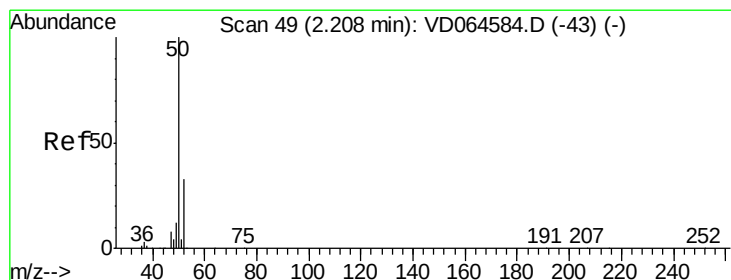
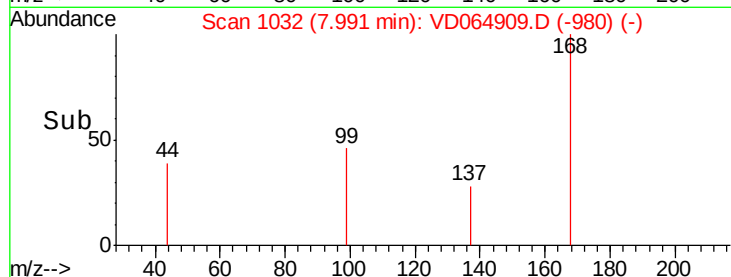
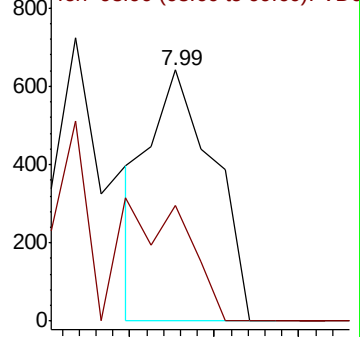
168 100

99 45.8 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 7.622 ug/l

RT: 2.41 min Scan# 84

Delta R.T. 0.21 min

Lab File: VD064909.D

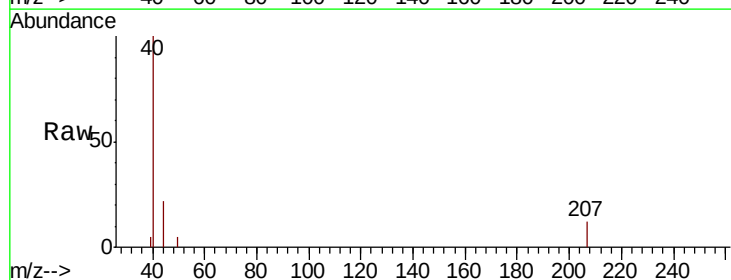
Acq: 21 Jan 2020 14:34

Tgt Ion: 50 Resp: 56

Ion Ratio Lower Upper

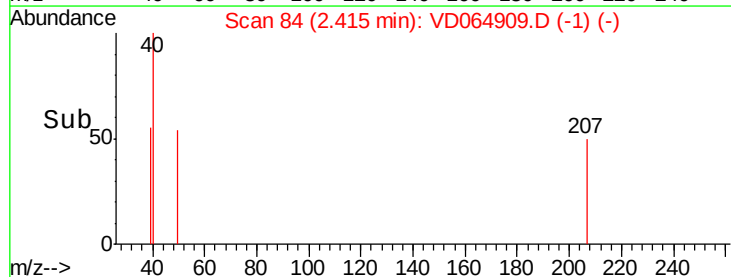
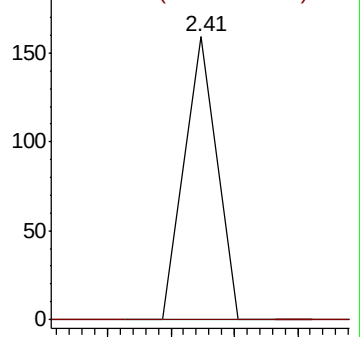
50 100

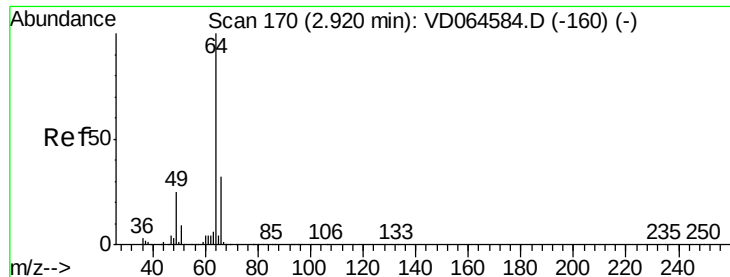
52 0.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#6

Chloroethane

Concen: 9.662 ug/l

RT: 3.01 min Scan# 186

Delta R.T. 0.09 min

Lab File: VD064909.D

Acq: 21 Jan 2020 14:34

Instrument :

MSVOA_D

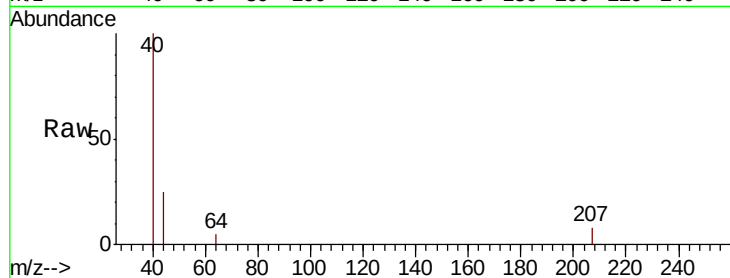
ClientSampleId :

Tot Ion: 64 Resp: 58

Ion Ratio Lower Upper

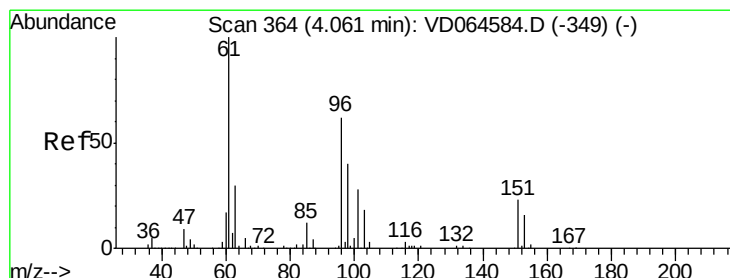
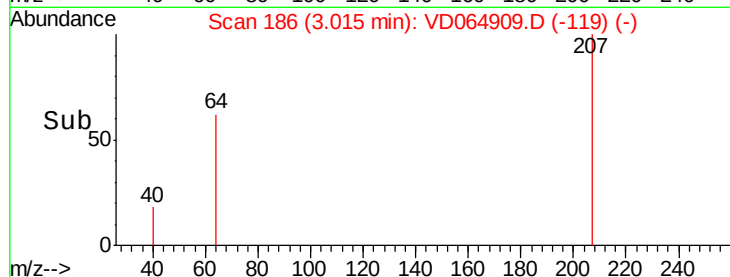
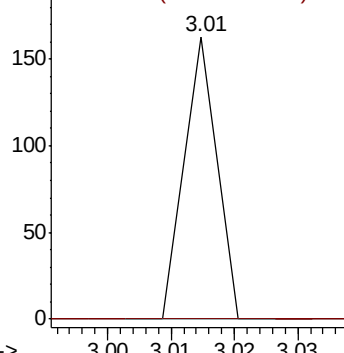
64 100

66 0.0 25.9 38.9#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



#12

1,1-Dichloroethene

Concen: 12.274 ug/l

RT: 4.10 min Scan# 371

Delta R.T. 0.04 min

Lab File: VD064909.D

Acq: 21 Jan 2020 14:34

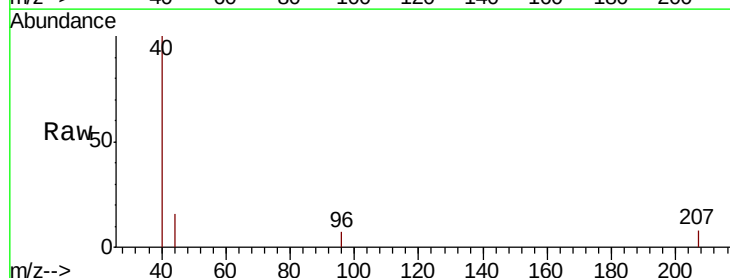
Tgt Ion: 96 Resp: 73

Ion Ratio Lower Upper

96 100

61 0.0 129.4 194.0#

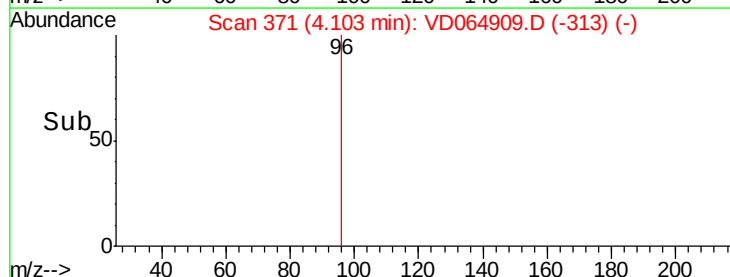
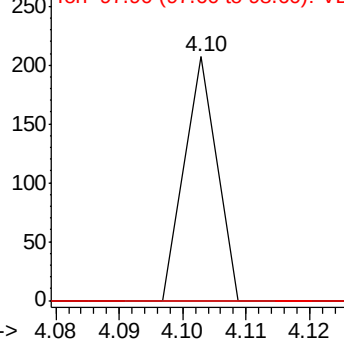
98 0.0 51.4 77.0#

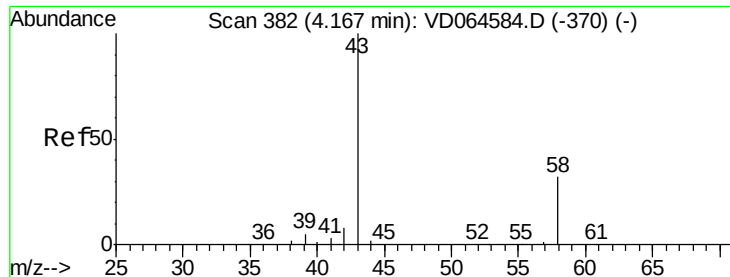


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#16

Acetone

Concen: 46.933 ug/l

RT: 4.13 min Scan# 375

Delta R.T. -0.04 min

Lab File: VD064909.D

Acq: 21 Jan 2020 14:34

Instrument :

MSVOA_D

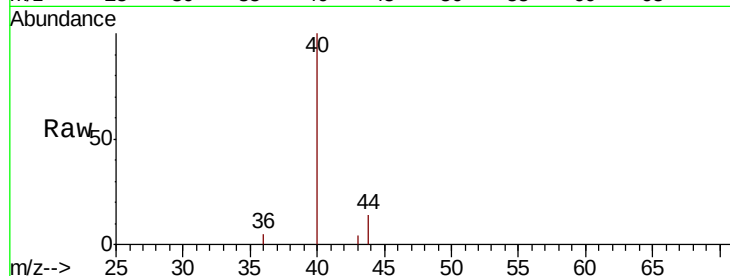
ClientSampleId :

Tot Ion: 43 Resp: 60

Ion Ratio Lower Upper

43 100

58 0.0 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.13

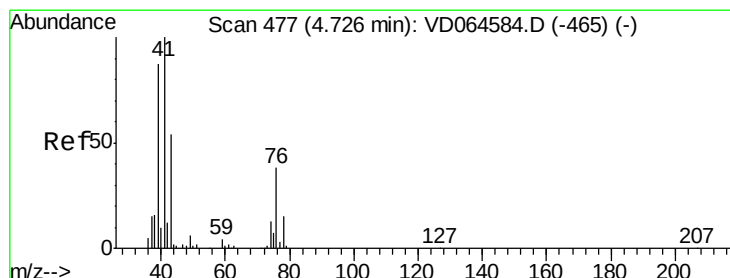
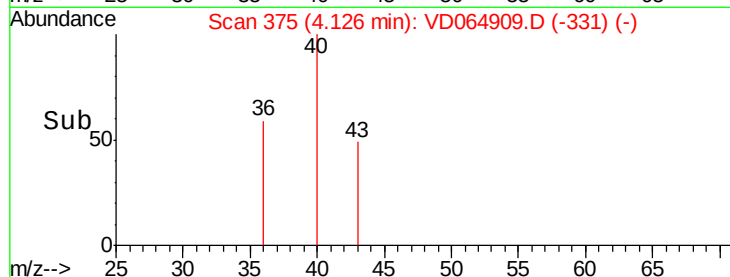
150

100

50

0

Time-->



#18

Methyl Acetate

Concen: 19.667 ug/l

RT: 4.47 min Scan# 434

Delta R.T. -0.25 min

Lab File: VD064909.D

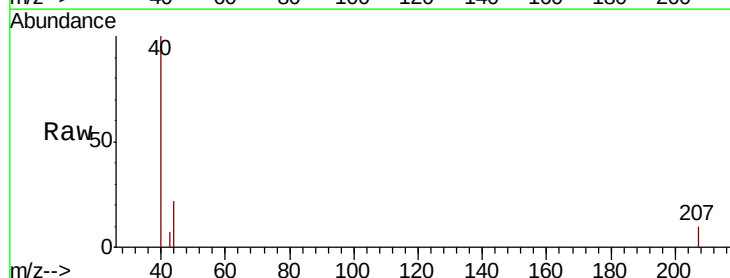
Acq: 21 Jan 2020 14:34

Tgt Ion: 43 Resp: 66

Ion Ratio Lower Upper

43 100

74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.47

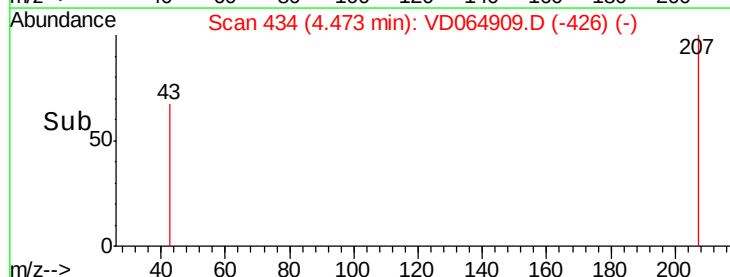
150

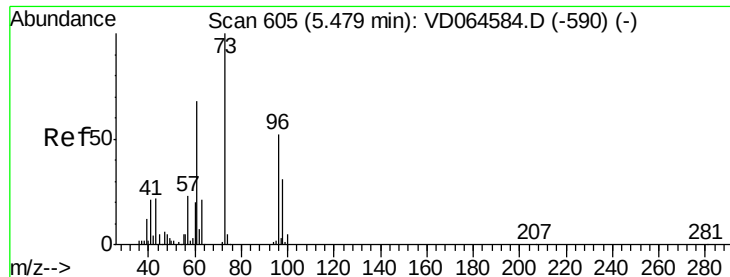
100

50

0

Time-->



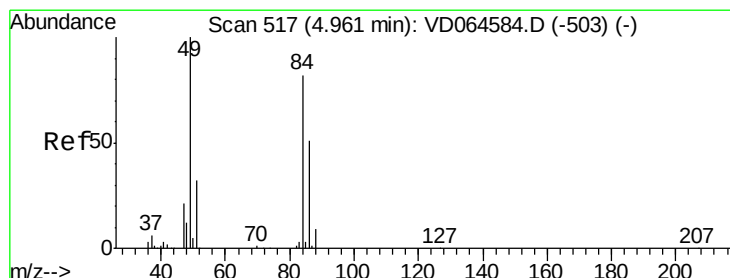
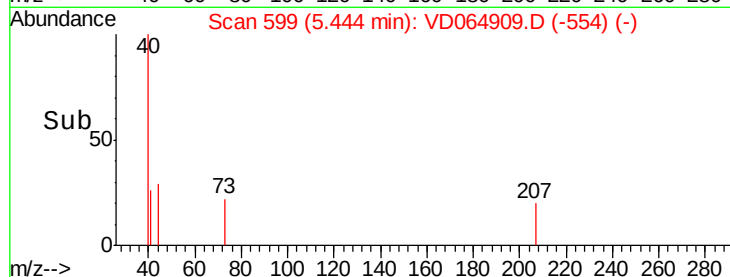
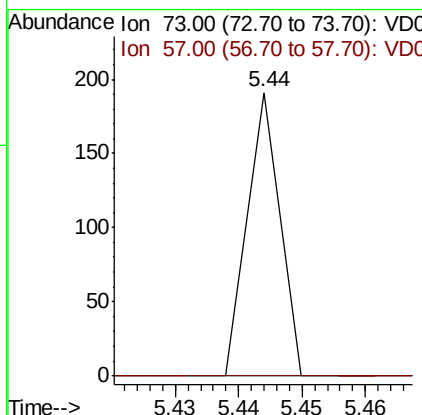
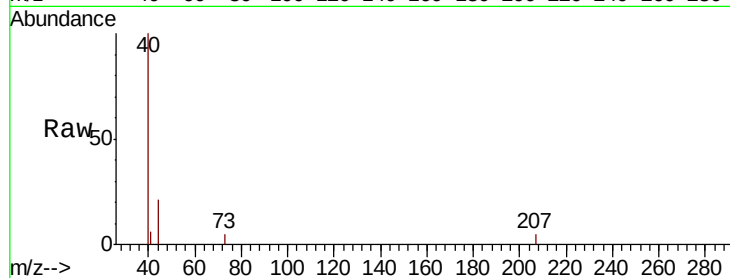


#19

Methyl tert-butyl Ether
 Concen: 5.072 ug/l
 RT: 5.44 min Scan# 599
 Delta R.T. -0.03 min
 Lab File: VD064909.D
 Acq: 21 Jan 2020 14:34

Instrument :
 MSVOA_D
 ClientSampleId :

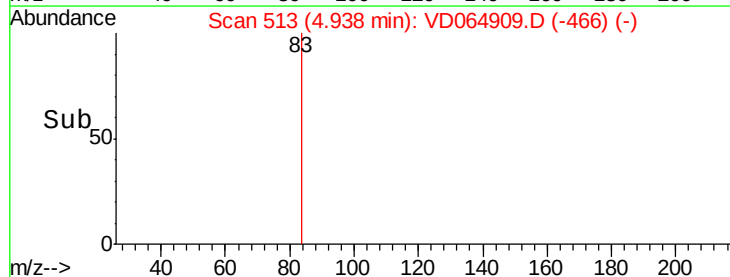
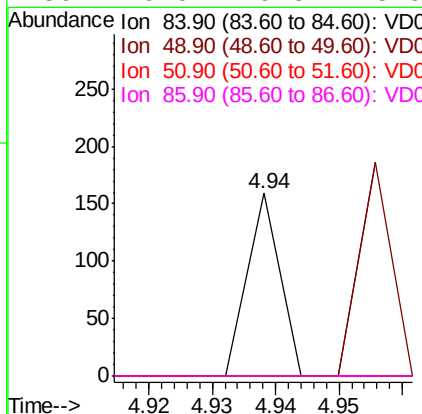
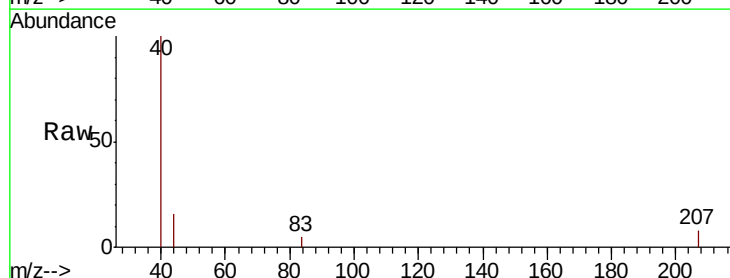
Tot Ion: 73 Resp: 67
 Ion Ratio Lower Upper
 73 100
 57 0.0 18.6 27.8#

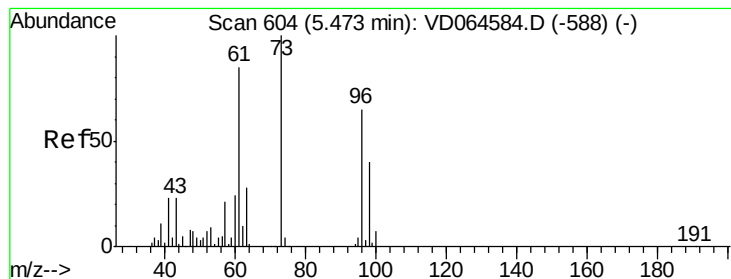


#20

Methylene Chloride
 Concen: 4.764 ug/l
 RT: 4.94 min Scan# 513
 Delta R.T. -0.02 min
 Lab File: VD064909.D
 Acq: 21 Jan 2020 14:34

Tgt Ion: 84 Resp: 56
 Ion Ratio Lower Upper
 84 100
 49 0.0 97.2 145.8#
 51 0.0 31.4 47.0#
 86 0.0 49.3 73.9#





#21

trans-1,2-Dichloroethene

Concen: 12.254 ug/l

RT: 5.53 min Scan# 614

Delta R.T. 0.06 min

Lab File: VD064909.D

Acq: 21 Jan 2020 14:34

Instrument :

MSVOA_D

ClientSampled :

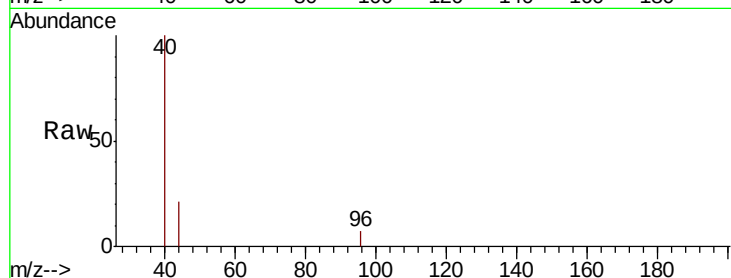
Tot Ion: 96 Resp: 83

Ion Ratio Lower Upper

96 100

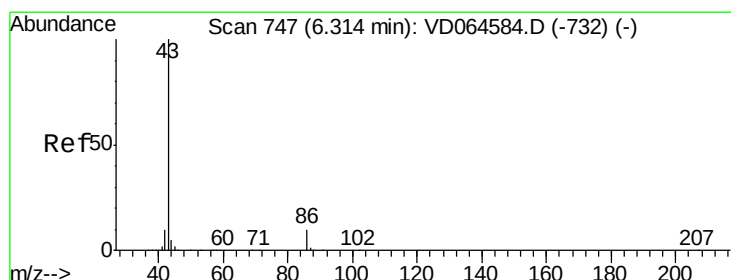
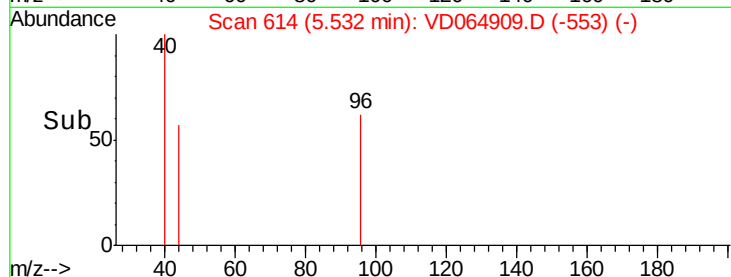
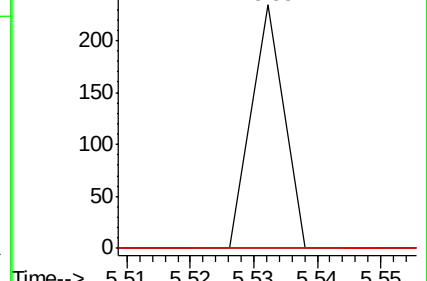
61 0.0 104.7 157.1#

98 0.0 49.4 74.2#



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC

5.53



#23

Vinyl Acetate

Concen: 5.147 ug/l

RT: 6.32 min Scan# 748

Delta R.T. 0.01 min

Lab File: VD064909.D

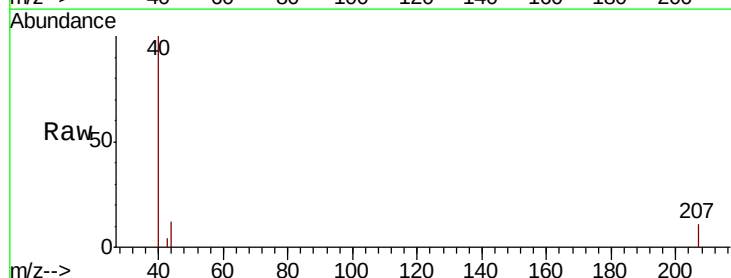
Acq: 21 Jan 2020 14:34

Tgt Ion: 43 Resp: 54

Ion Ratio Lower Upper

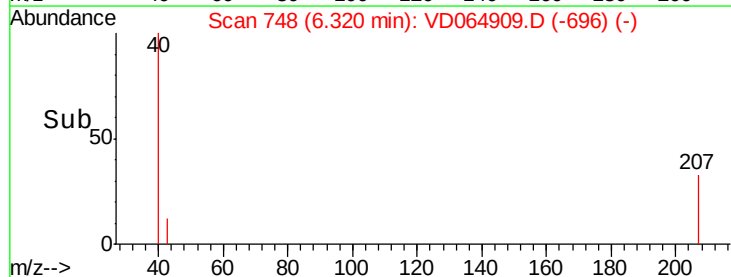
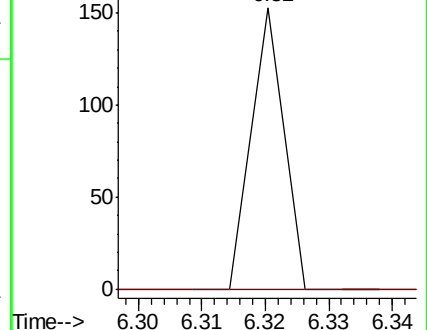
43 100

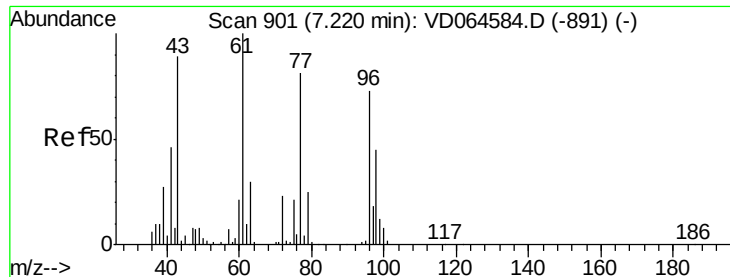
86 0.0 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 86.00 (85.70 to 86.70): VDC

6.32





#25

2-Butanone

Concen: 73.237 ug/l

RT: 7.18 min Scan# 894

Delta R.T. -0.04 min

Lab File: VD064909.D

Acq: 21 Jan 2020 14:34

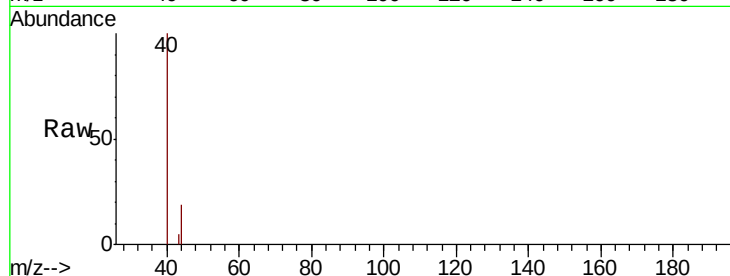
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 120

Ion Ratio Lower Upper

43 100

72 0.0 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.18

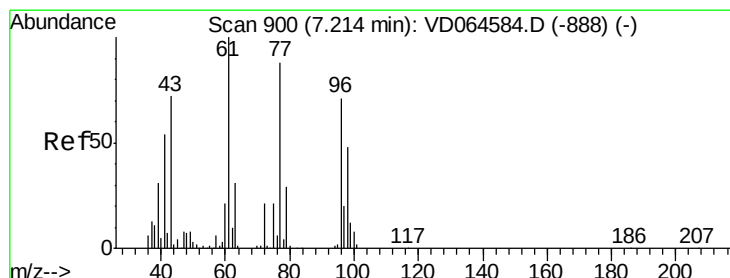
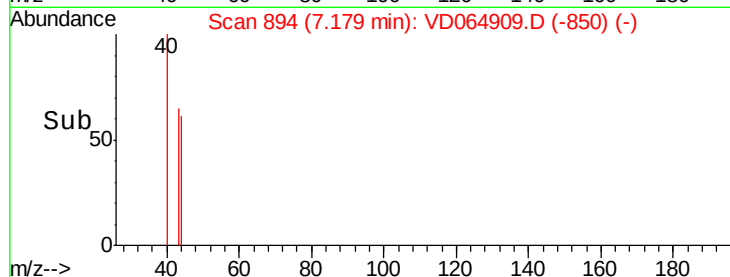
150

100

50

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 16.553 ug/l

RT: 7.24 min Scan# 904

Delta R.T. 0.02 min

Lab File: VD064909.D

Acq: 21 Jan 2020 14:34

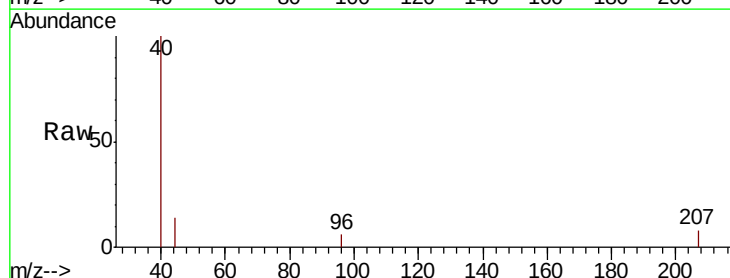
Tgt Ion: 96 Resp: 121

Ion Ratio Lower Upper

96 100

61 0.0 0.0 282.6

98 0.0 0.0 130.8



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

250

200

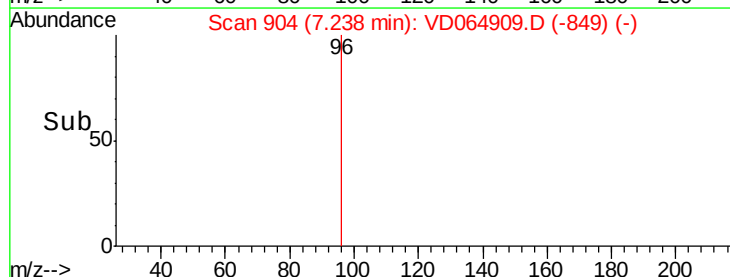
150

100

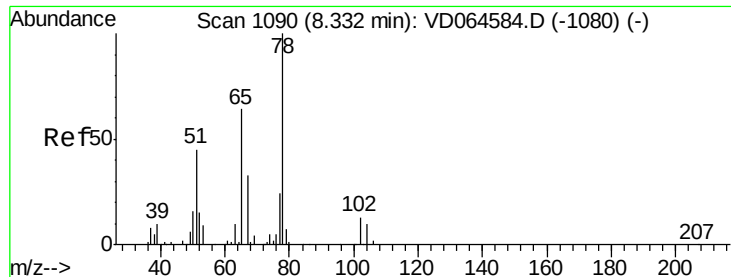
50

0

Time-->



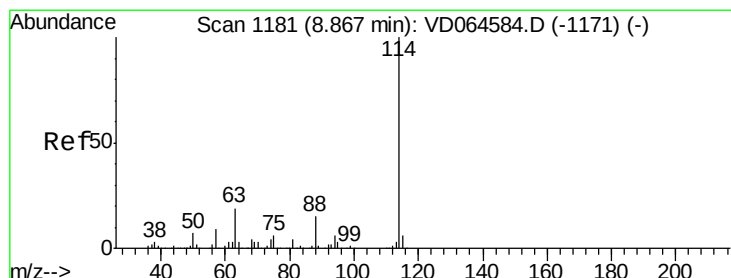
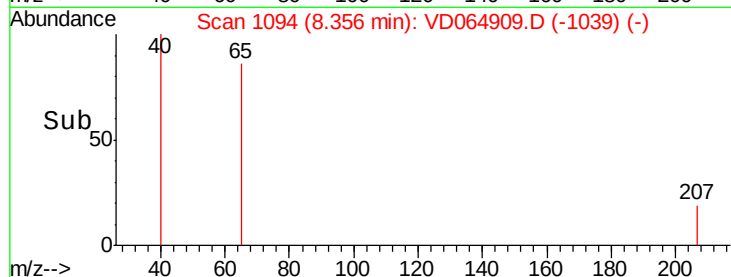
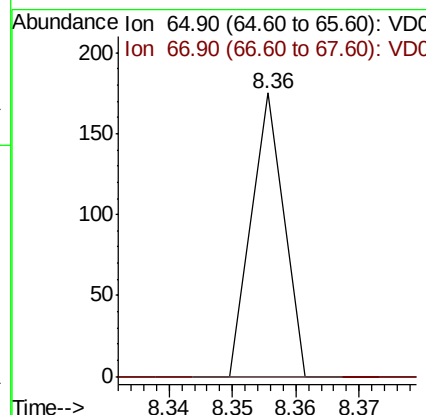
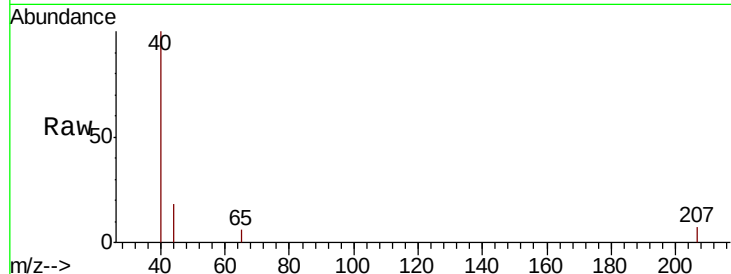
Time-->



#33
 1,2-Dichloroethane-d4
 Concen: 10.401 ug/l
 RT: 8.36 min Scan# 1094
 Delta R.T. 0.02 min
 Lab File: VD064909.D
 Acq: 21 Jan 2020 14:34

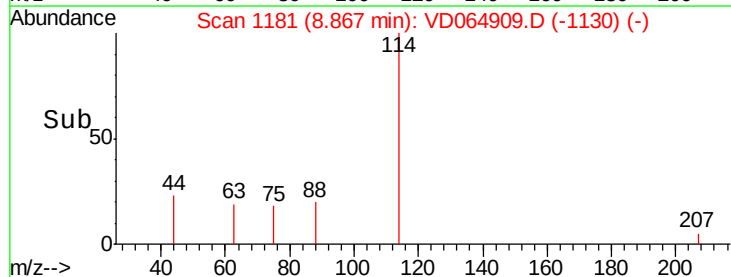
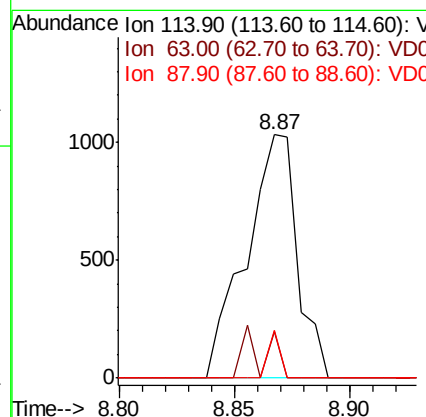
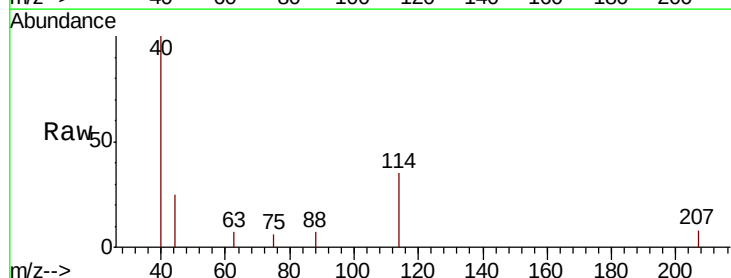
Instrument :
 MSVOA_D
 ClientSampleId :

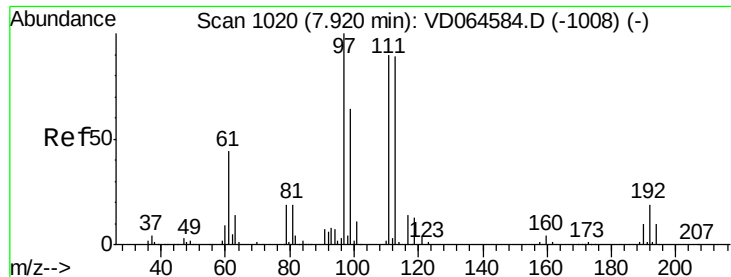
Tot Ion: 65 Resp: 62
 Ion Ratio Lower Upper
 65 100
 67 0.0 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064909.D
 Acq: 21 Jan 2020 14:34

Tgt Ion: 114 Resp: 1593
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 38.0
 88 19.7 0.0 29.2





#35

Dibromofluoromethane

Concen: 16.678 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD064909.D

Acq: 21 Jan 2020 14:34

Instrument :
MSVOA_D
ClientSampleId :

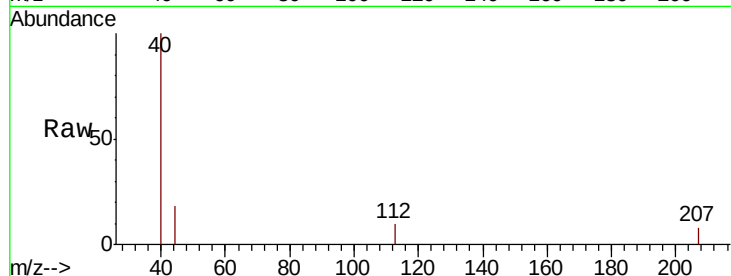
Tot Ion:113 Resp: 163

Ion Ratio Lower Upper

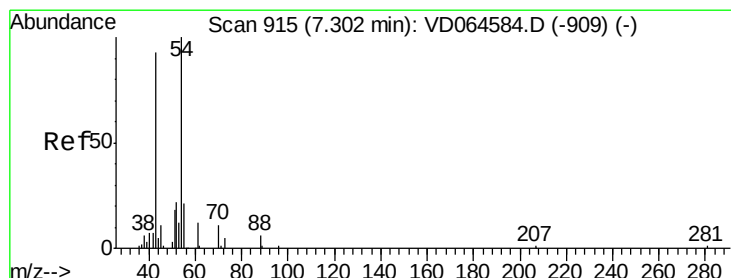
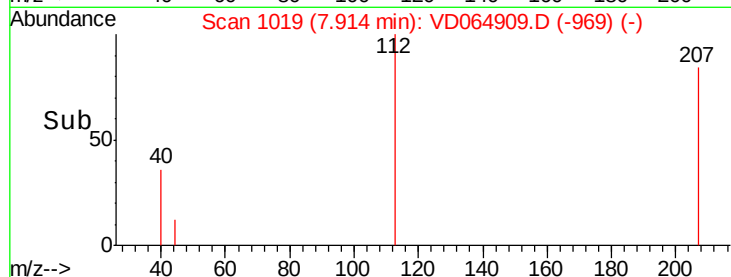
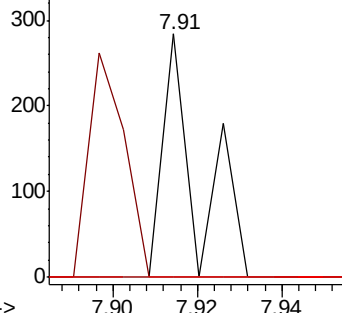
113 100

111 93.9 80.6 121.0

192 0.0 17.9 26.9#



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#37

Ethyl Acetate

Concen: 19.922 ug/l

RT: 7.18 min Scan# 894

Delta R.T. -0.12 min

Lab File: VD064909.D

Acq: 21 Jan 2020 14:34

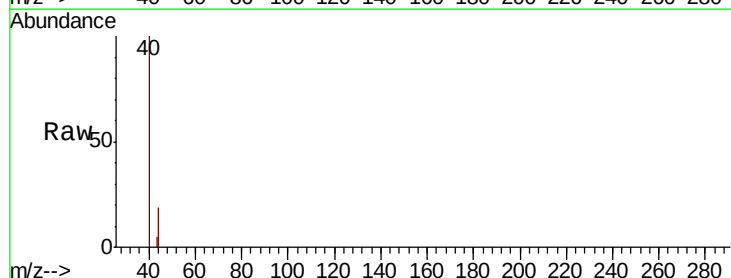
Tgt Ion: 43 Resp: 120

Ion Ratio Lower Upper

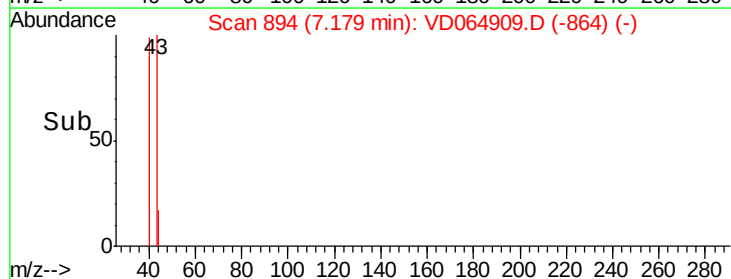
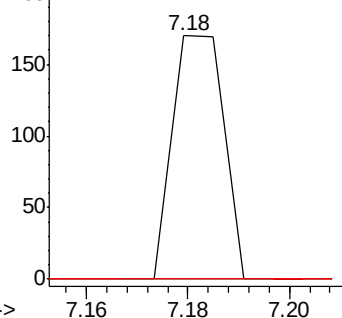
43 100

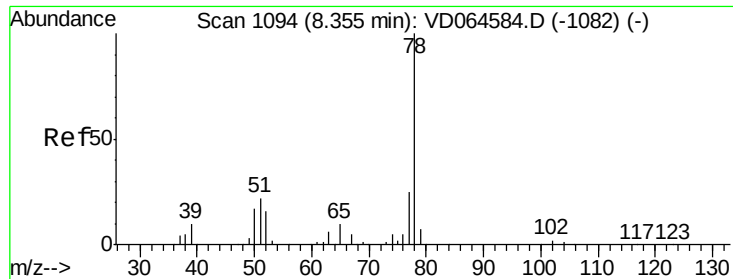
61 0.0 10.3 15.5#

70 0.0 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC





#40

Benzene

Concen: 1.505 ug/l

RT: 8.36 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VD064909.D

Acq: 21 Jan 2020 14:34

Instrument :

MSVOA_D

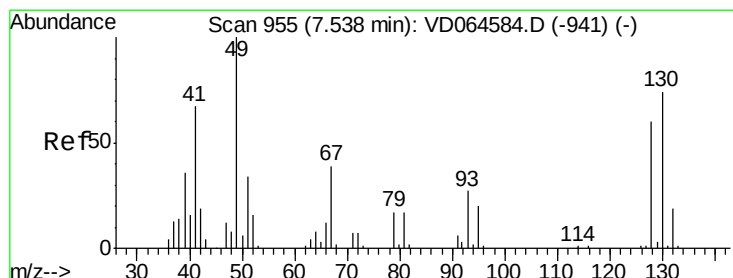
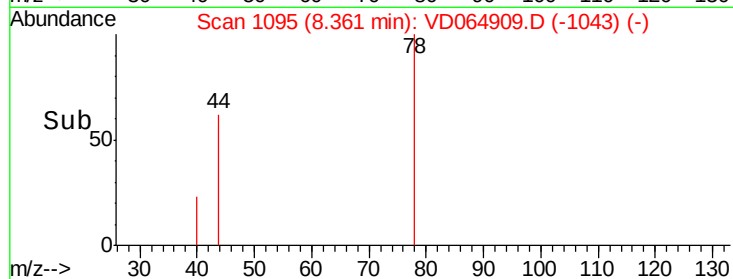
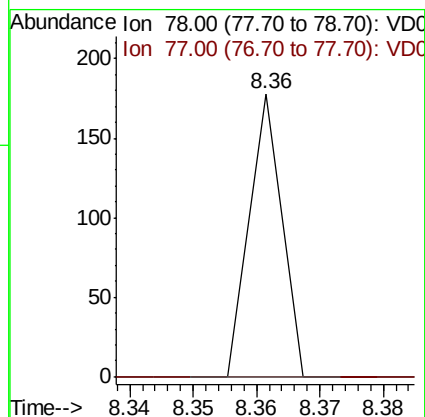
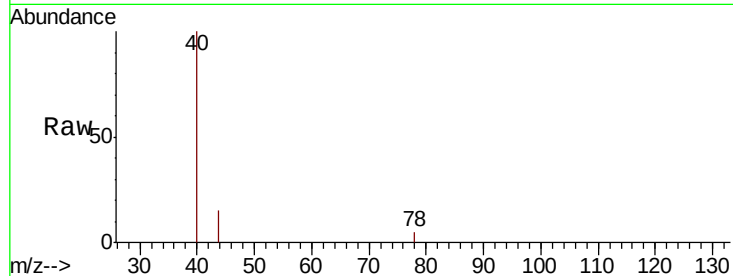
ClientSampleId :

Tot Ion: 78 Resp: 63

Ion Ratio Lower Upper

78 100

77 0.0 19.9 29.9#



#41

Methacrylonitrile

Concen: 40.632 ug/l

RT: 7.56 min Scan# 958

Delta R.T. 0.02 min

Lab File: VD064909.D

Acq: 21 Jan 2020 14:34

Tgt Ion: 41 Resp: 142

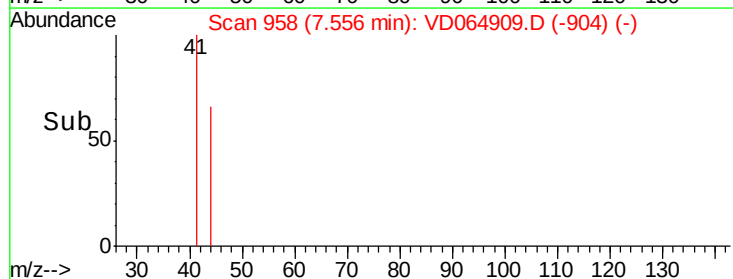
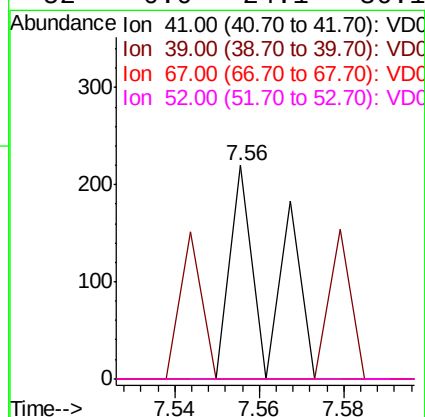
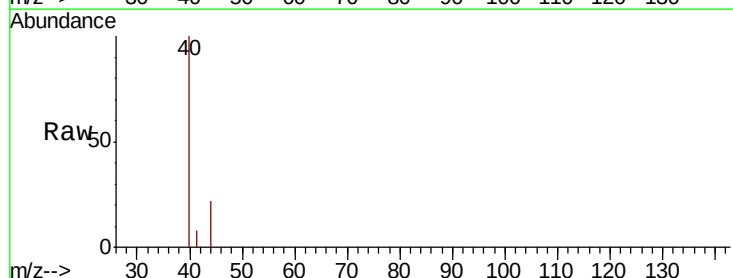
Ion Ratio Lower Upper

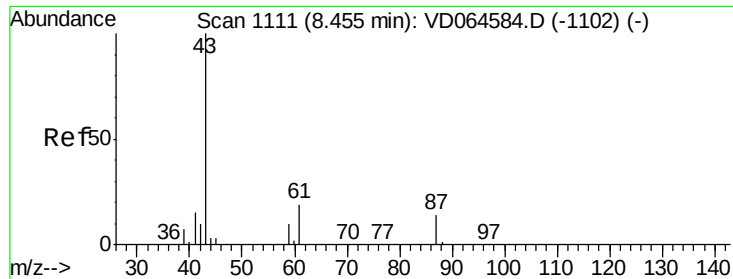
41 100

39 37.3 46.7 70.1#

67 0.0 52.5 78.7#

52 0.0 24.1 36.1#

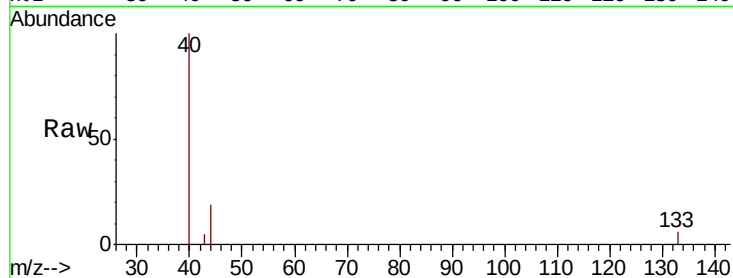




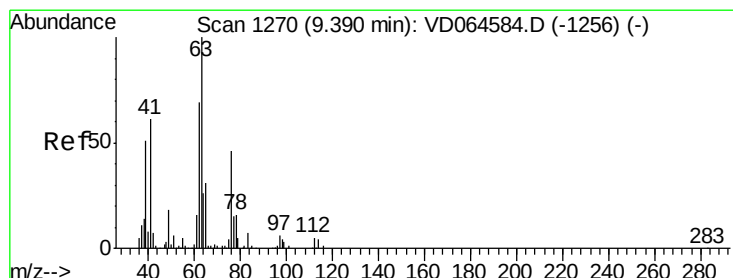
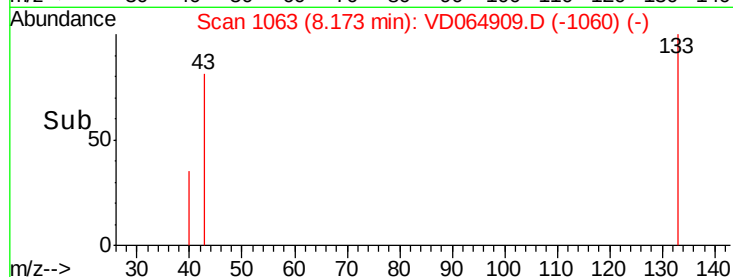
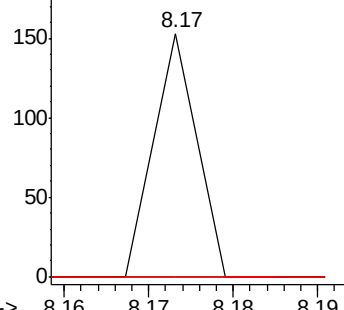
#43
Isopropyl Acetate
Concen: 4.504 ug/l
RT: 8.17 min Scan# 1063
Delta R.T. -0.28 min
Lab File: VD064909.D
Acq: 21 Jan 2020 14:34

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
61 0.0 23.7 35.5#
87 0.0 10.5 15.7#

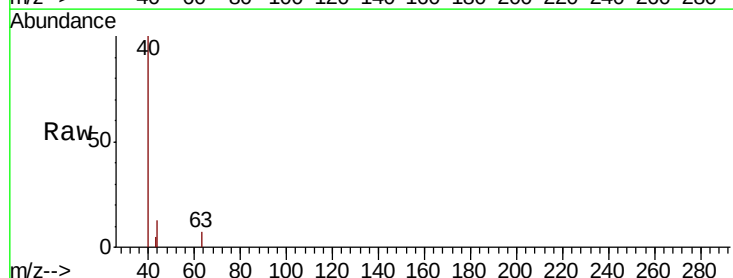


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 61.00 (60.70 to 61.70): VDC
Ion 87.00 (86.70 to 87.70): VDC

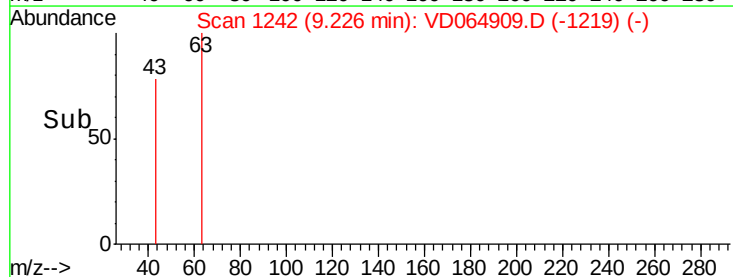
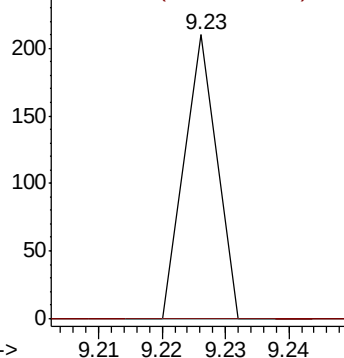


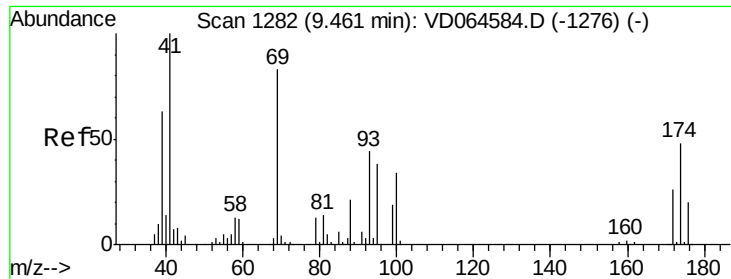
#45
1,2-Dichloropropane
Concen: 7.405 ug/l
RT: 9.23 min Scan# 1242
Delta R.T. -0.16 min
Lab File: VD064909.D
Acq: 21 Jan 2020 14:34

Tgt Ion: 63 Resp: 74
Ion Ratio Lower Upper
63 100
65 0.0 25.2 37.8#



Abundance Ion 62.90 (62.60 to 63.60): VDC
Ion 64.90 (64.60 to 65.60): VDC

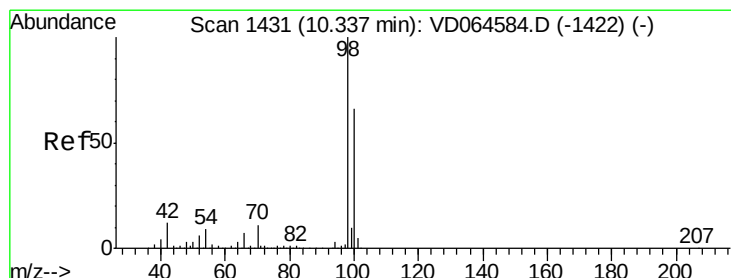
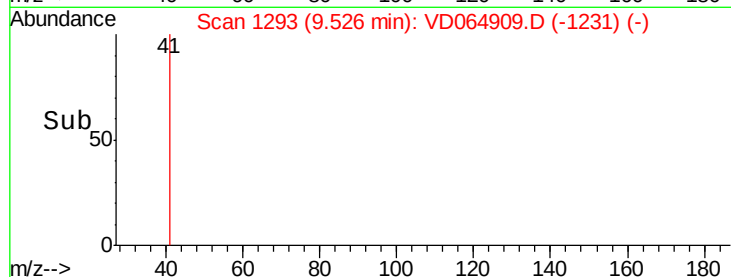
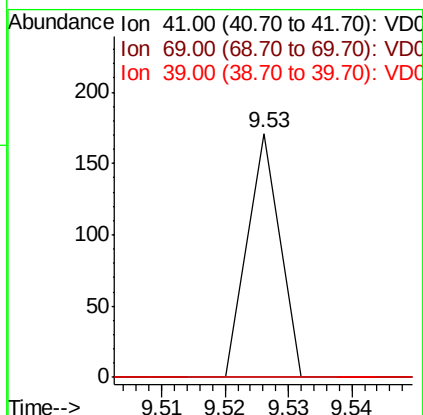
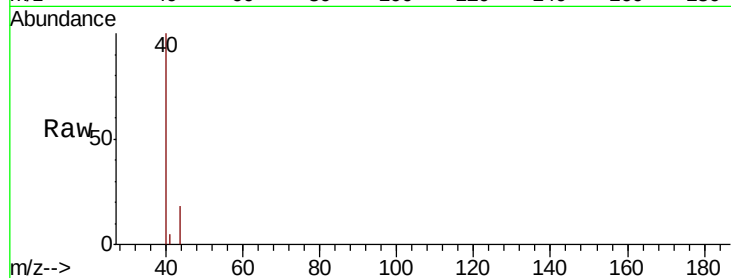




#48
Methvl methacrylate
Concen: 10.629 ug/l
RT: 9.53 min Scan# 1293
Delta R.T. 0.07 min
Lab File: VD064909.D
Acq: 21 Jan 2020 14:34

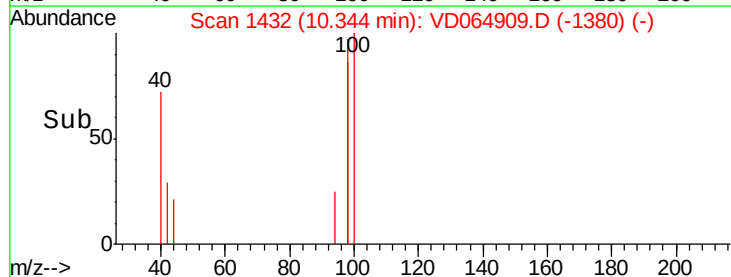
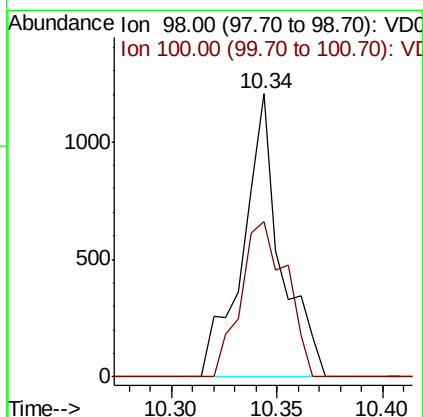
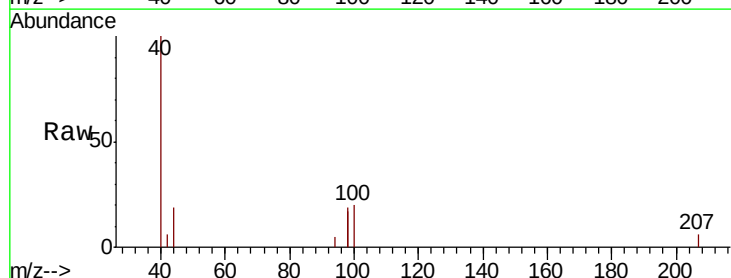
Instrument :
MSVOA_D
ClientSampleId :

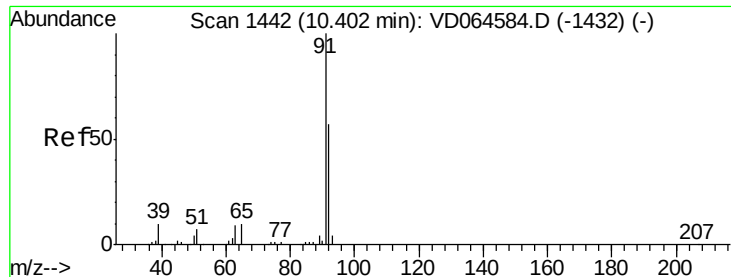
Tot Ion: 41 Resp: 60
Ion Ratio Lower Upper
41 100
69 0.0 63.0 94.6#
39 0.0 47.4 71.2#



#50
Toluene-d8
Concen: 40.074 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064909.D
Acq: 21 Jan 2020 14:34

Tgt Ion: 98 Resp: 1500
Ion Ratio Lower Upper
98 100
100 66.0 51.7 77.5





#52

Toluene

Concen: 2.221 ug/l

RT: 10.32 min Scan# 1428

Delta R.T. -0.08 min

Lab File: VD064909.D

Acq: 21 Jan 2020 14:34

Instrument :

MSVOA_D

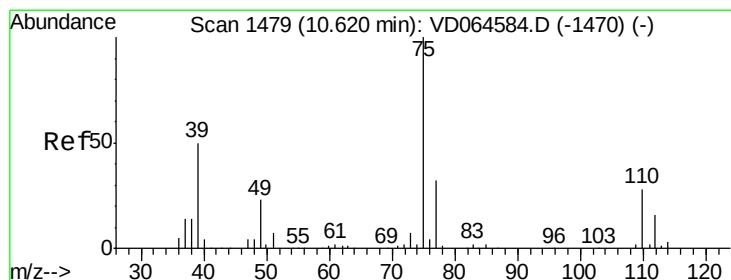
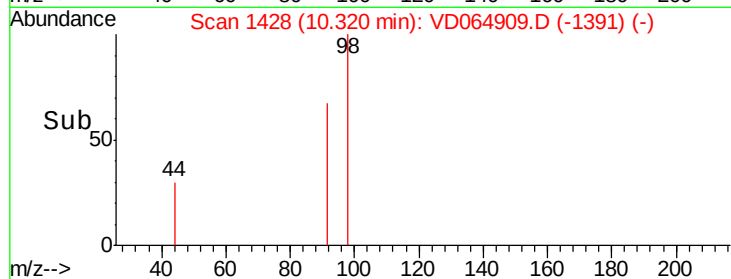
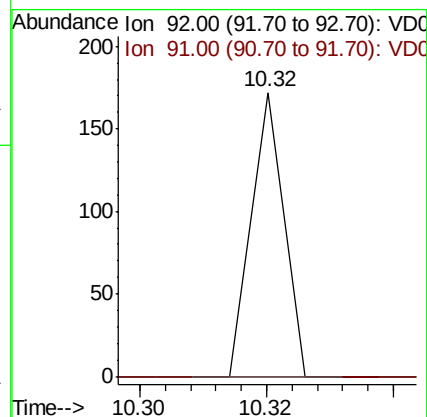
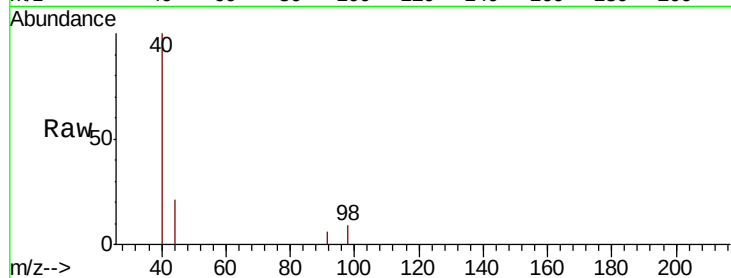
ClientSampleId :

Tot Ion: 92 Resp: 61

Ion Ratio Lower Upper

92 100

91 0.0 138.7 208.1#



#53

t-1,3-Dichloropropene

Concen: 4.341 ug/l

RT: 10.36 min Scan# 1435

Delta R.T. -0.26 min

Lab File: VD064909.D

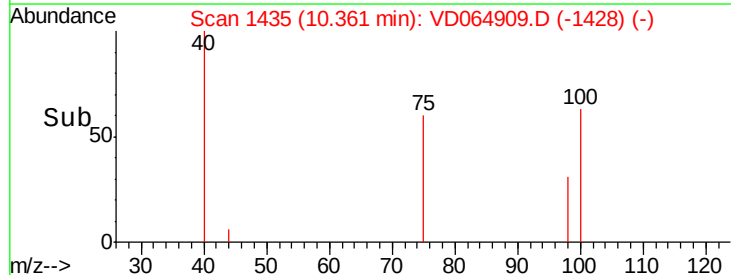
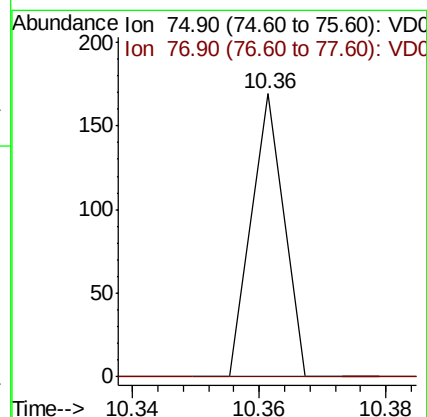
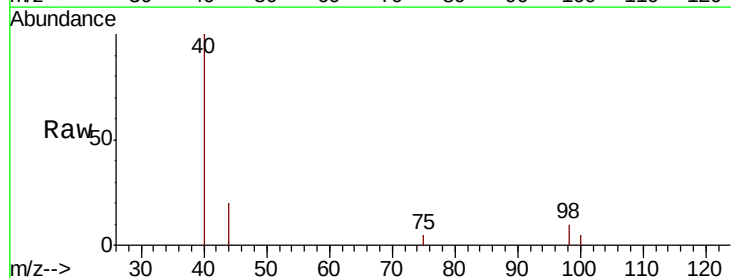
Acq: 21 Jan 2020 14:34

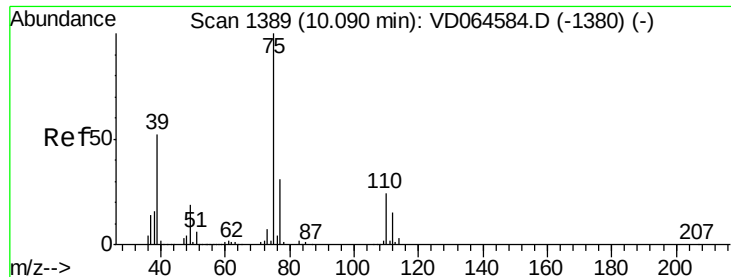
Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

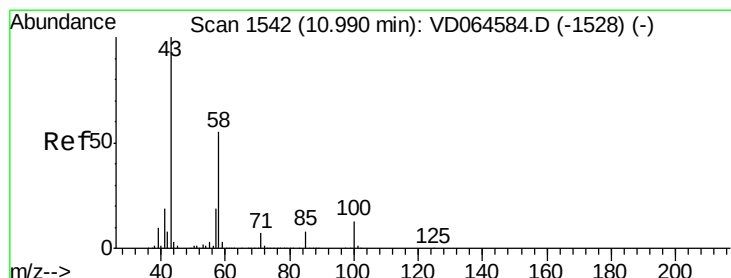
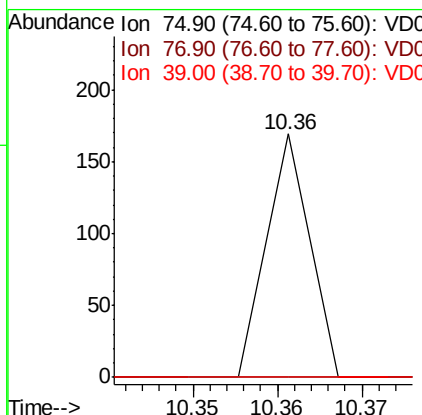
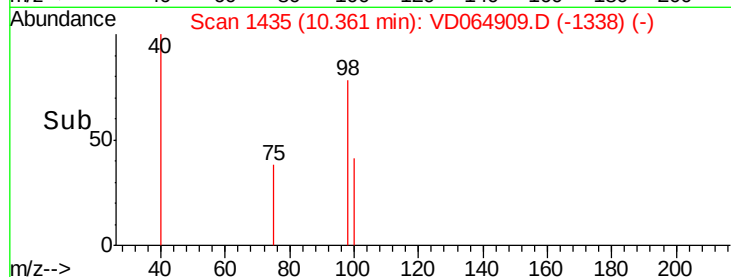
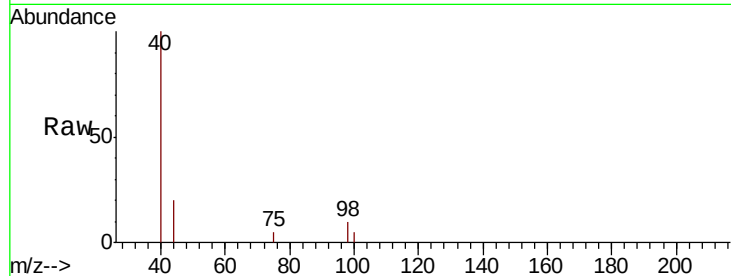




#54
 cis-1,3-Dichloropropene
 Concen: 3.681 ug/l
 RT: 10.36 min Scan# 1435
 Delta R.T. 0.27 min
 Lab File: VD064909.D
 Acq: 21 Jan 2020 14:34

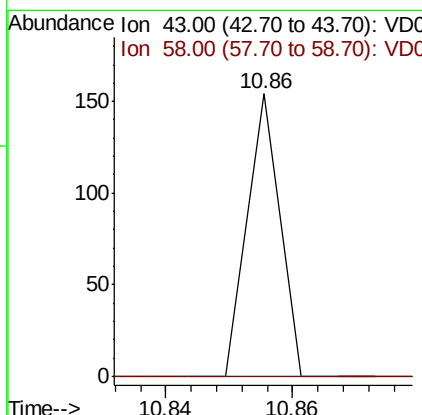
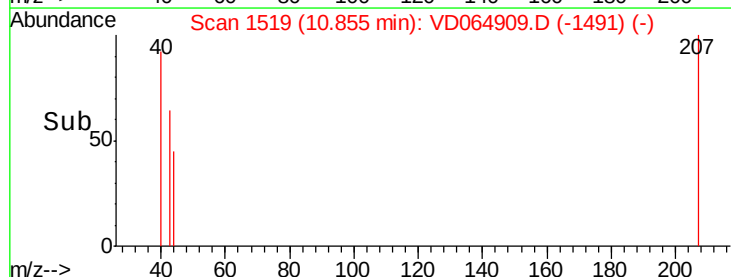
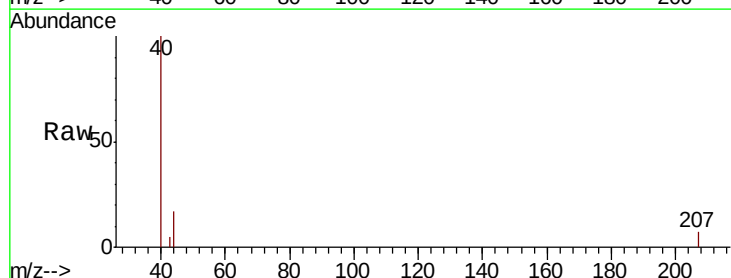
Instrument :
 MSVOA_D
 ClientSampled :

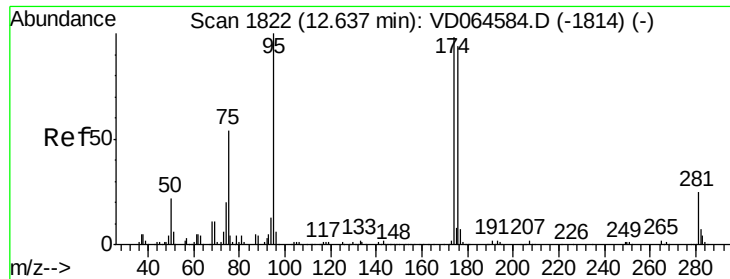
Tot Ion: 75 Resp: 60
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 0.0 41.4 62.2#



#59
 2-Hexanone
 Concen: 13.426 ug/l
 RT: 10.86 min Scan# 1519
 Delta R.T. -0.13 min
 Lab File: VD064909.D
 Acq: 21 Jan 2020 14:34

Tgt Ion: 43 Resp: 54
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.4 79.0#

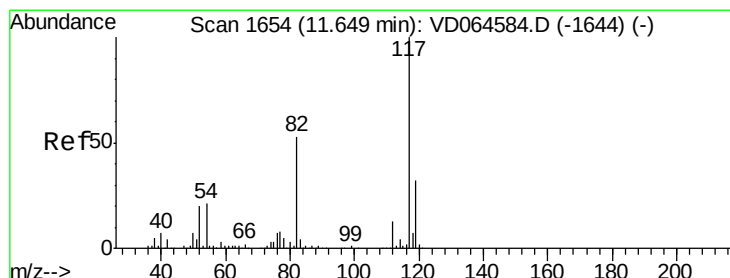
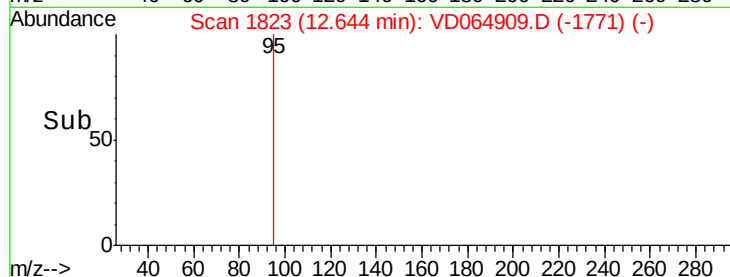
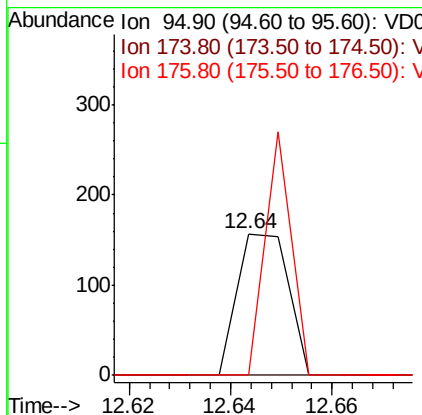
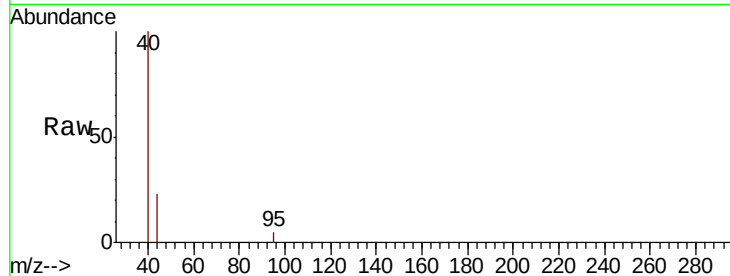




#62
4-Bromofluorobenzene
Concen: 9.294 ug/l
RT: 12.64 min Scan# 1823
Delta R.T. 0.01 min
Lab File: VD064909.D
Acq: 21 Jan 2020 14:34

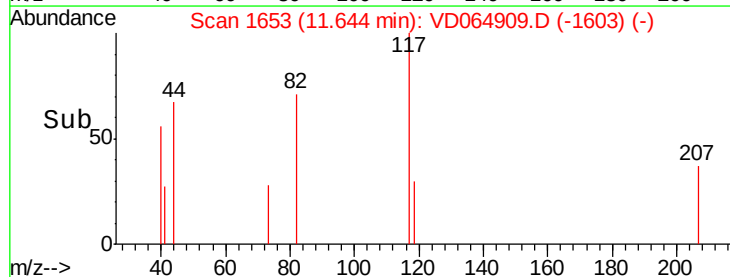
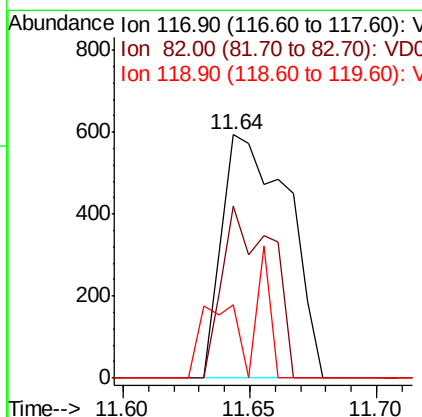
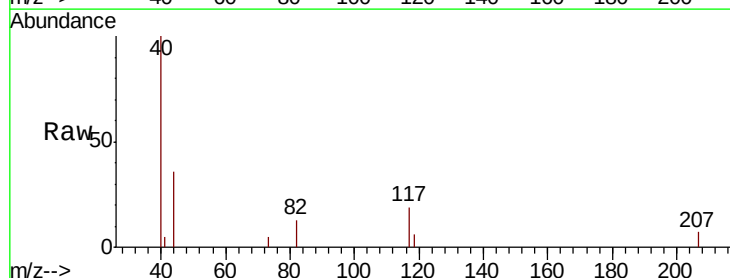
Instrument :
MSVOA_D
ClientSampleId :

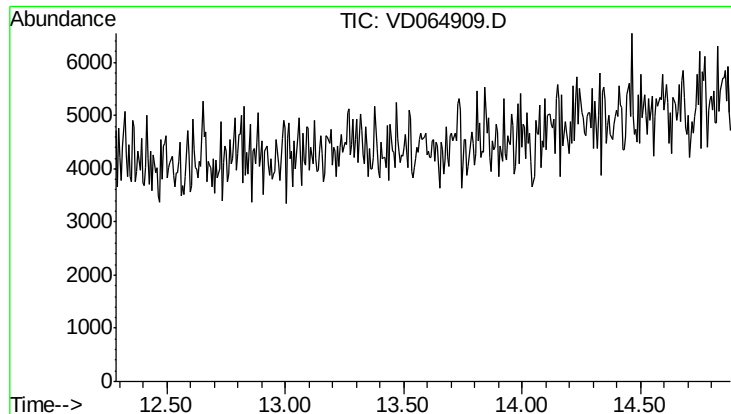
Tot Ion: 95 Resp: 110
Ion Ratio Lower Upper
95 100
174 0.0 0.0 193.2
176 86.4 0.0 184.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VD064909.D
Acq: 21 Jan 2020 14:34

Tgt Ion: 117 Resp: 1084
Ion Ratio Lower Upper
117 100
82 70.5 42.2 63.4#
119 30.1 26.0 39.0





#72
1,4-Dichlorobenzene-d4
Concen: 0.000 ug/l
Expected RT: 13.58 min
Lab File: VD064909.D
Acq: 21 Jan 2020 14:34

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	152
Sig	Exp Ratio
152	100
115	55.6
150	175.7

