

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD020320\
 Data File : VD065050.D
 Acq On : 03 Feb 2020 13:18
 Operator : VA/SY
 Sample : L1345-04
 Misc : 5.05G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 01-31-D

Quant Time: Feb 03 14:06:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	8804	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	13487	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	14152	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	5741	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	7014	83.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	166.12%	
35) Dibromofluoromethane	7.93	113	5304	62.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	125.16%	
50) Toluene-d8	10.34	98	15909	48.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.26%	
62) 4-Bromofluorobenzene	12.64	95	5795	57.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.78%	

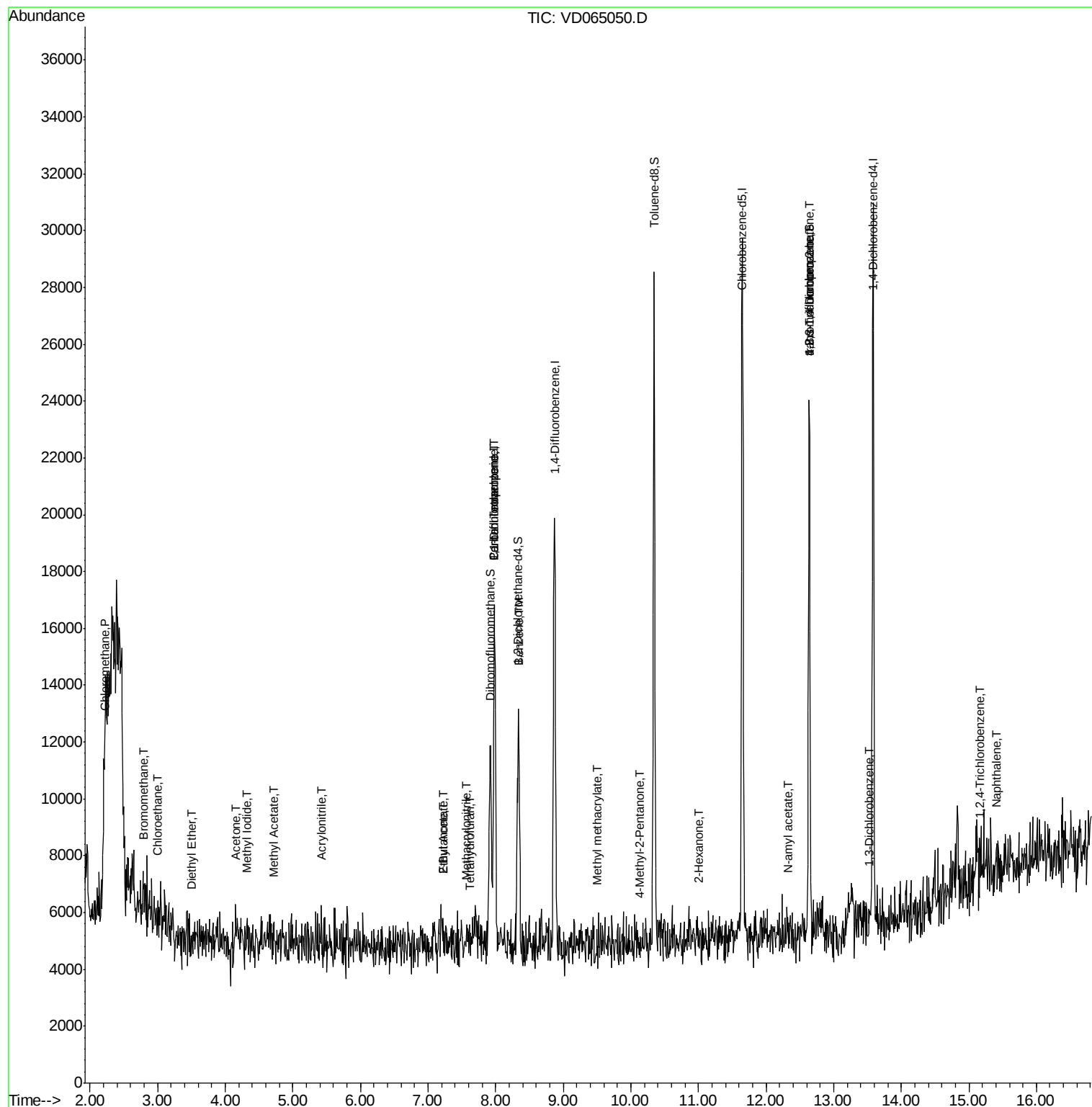
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	604	6.21	ug/l #	71
5) Bromomethane	2.80	94	807	10.75	ug/l #	50
6) Chloroethane	2.99	64	172	2.34	ug/l #	43
8) Diethyl Ether	3.51	74	56	1.44	ug/l #	1
10) Methyl Iodide	4.33	142	435	5.11	ug/l #	79
15) Acrylonitrile	5.42	53	71	4.21	ug/l #	17
16) Acetone	4.16	43	529	35.25	ug/l	97
18) Methyl Acetate	4.73	43	65	1.64	ug/l #	51
25) 2-Butanone	7.21	43	71	3.11	ug/l #	49
29) Tetrahydrofuran	7.62	42	55	3.91	ug/l #	34
36) 1,1-Dichloropropene	7.97	75	820	6.31	ug/l #	42
37) Ethyl Acetate	7.21	43	71	1.32	ug/l #	69
38) Carbon Tetrachloride	7.98	117	823	5.99	ug/l #	14
40) Benzene	8.34	78	450	1.26	ug/l #	51
41) Methacrylonitrile	7.58	41	62	2.14	ug/l #	40
48) Methyl methacrylate	9.50	41	62	1.32	ug/l #	13
51) 4-Methyl-2-Pentanone	10.13	43	54	1.06	ug/l #	37
59) 2-Hexanone	11.00	43	121	3.44	ug/l #	25
74) N-amyl acetate	12.33	43	139	1.58	ug/l #	40
76) 1,2,3-Trichloropropane	12.64	75	3476	72.95	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	3476	155.76	ug/l #	9
87) 1,3-Dichlorobenzene	13.53	146	283	1.54	ug/l #	39
93) 1,2,4-Trichlorobenzene	15.17	180	122	1.13	ug/l #	65
95) Naphthalene	15.40	128	632	3.62	ug/l #	76

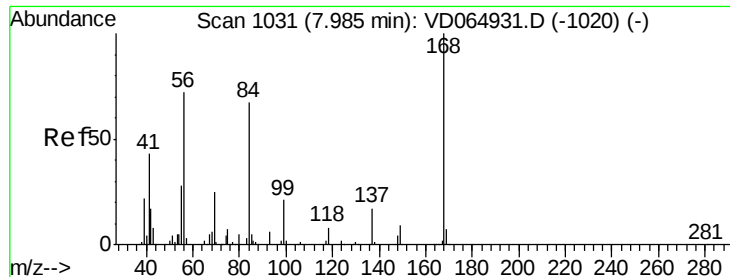
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 03 14:06:27 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
Quant Title : SW846 8260
QLast Update : Thu Jan 23 13:45:59 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065050.D

Acq: 03 Feb 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

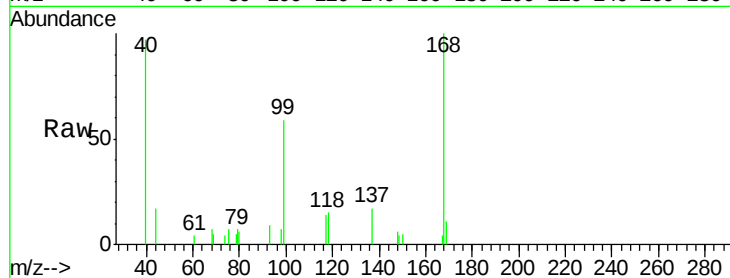
01-31-D

Tgt Ion:168 Resp: 8804

Ion Ratio Lower Upper

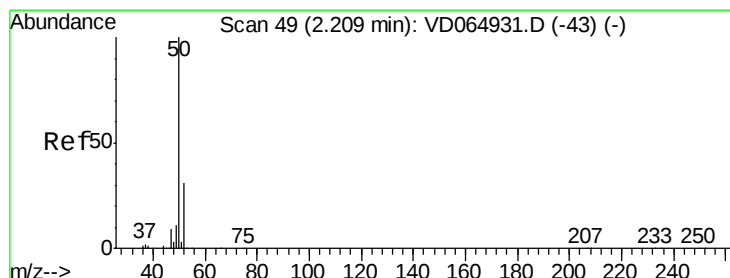
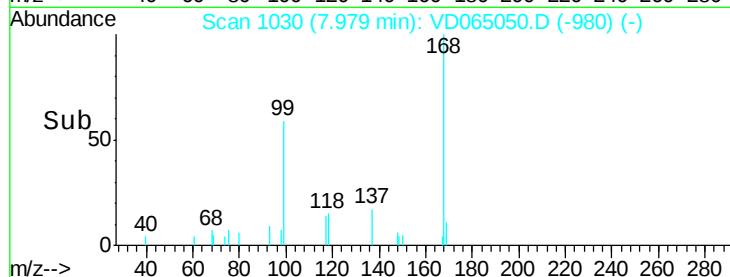
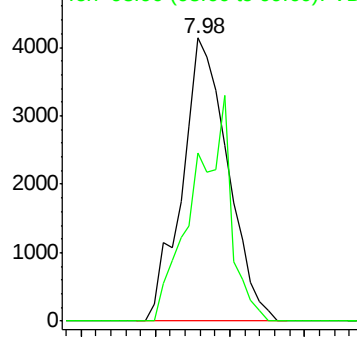
168 100

99 59.4 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 6.21 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD065050.D

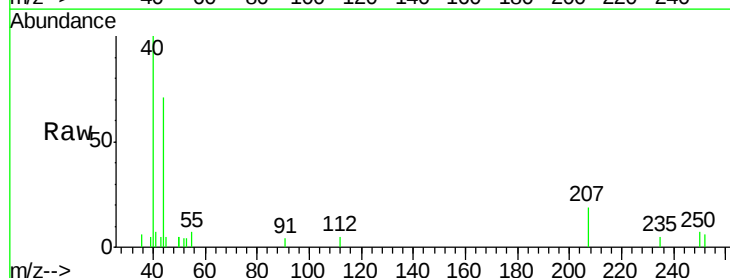
Acq: 03 Feb 2020 13:18

Tgt Ion: 50 Resp: 604

Ion Ratio Lower Upper

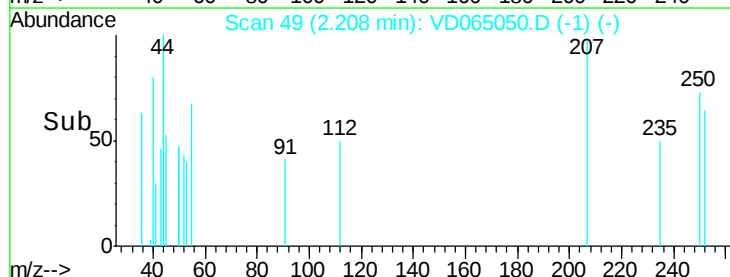
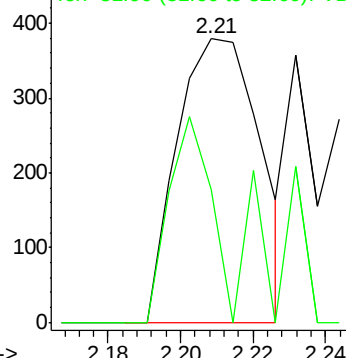
50 100

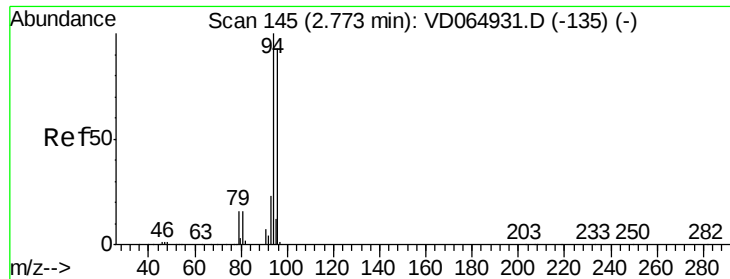
52 46.7 24.6 36.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 10.75 ug/l

RT: 2.80 min Scan# 149

Delta R.T. 0.02 min

Lab File: VD065050.D

Acq: 03 Feb 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

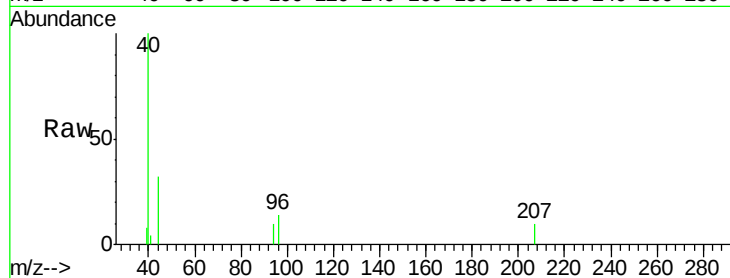
01-31-D

Tgt Ion: 94 Resp: 807

Ion Ratio Lower Upper

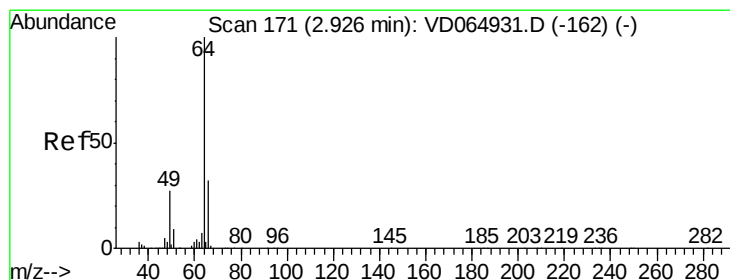
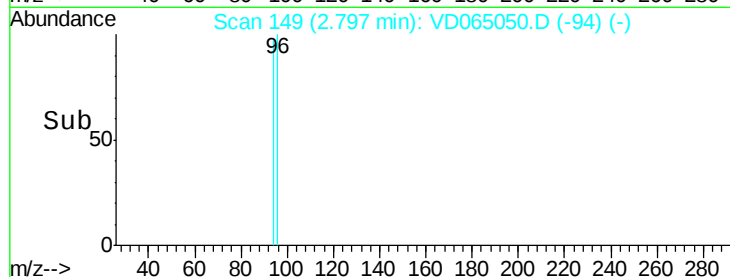
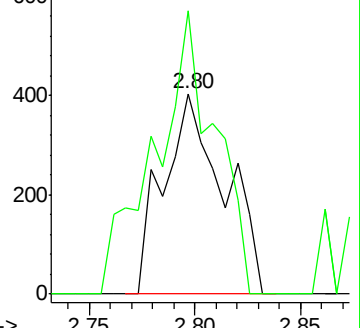
94 100

96 141.1 74.6 111.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 2.34 ug/l

RT: 2.99 min Scan# 182

Delta R.T. 0.06 min

Lab File: VD065050.D

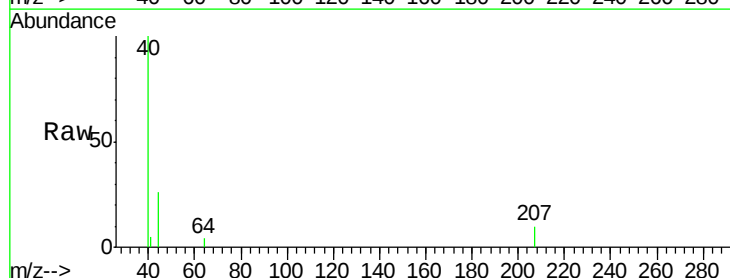
Acq: 03 Feb 2020 13:18

Tgt Ion: 64 Resp: 172

Ion Ratio Lower Upper

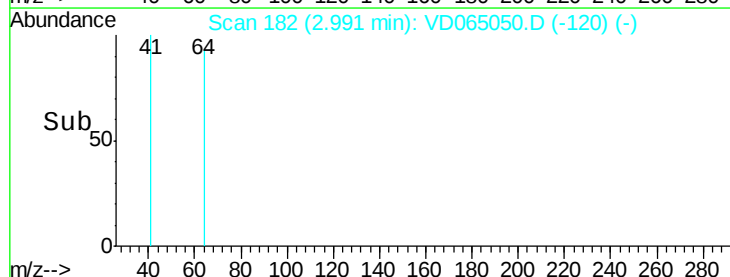
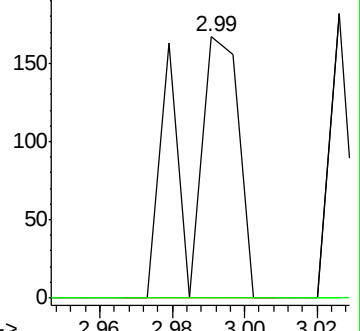
64 100

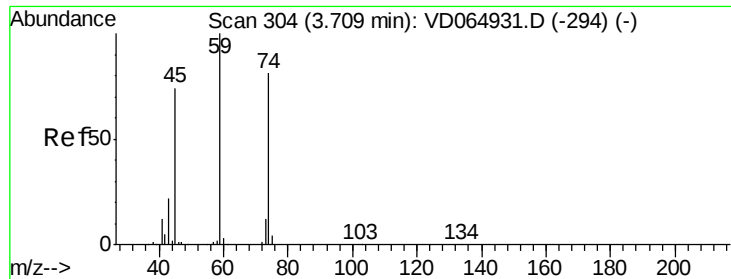
66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#8

Diethyl Ether

Concen: 1.44 ug/l

RT: 3.51 min Scan# 270

Delta R.T. -0.20 min

Lab File: VD065050.D

Acq: 03 Feb 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

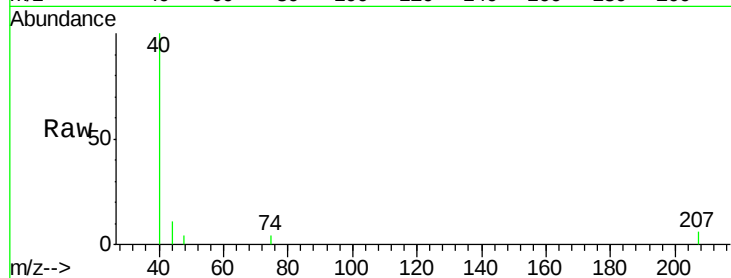
01-31-D

Tgt Ion: 74 Resp: 56

Ion Ratio Lower Upper

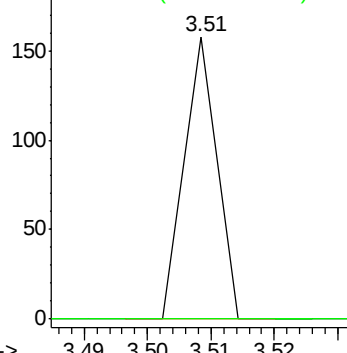
74 100

45 0.0 48.5 145.5#

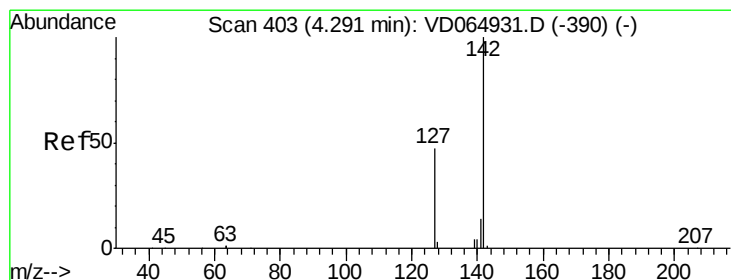
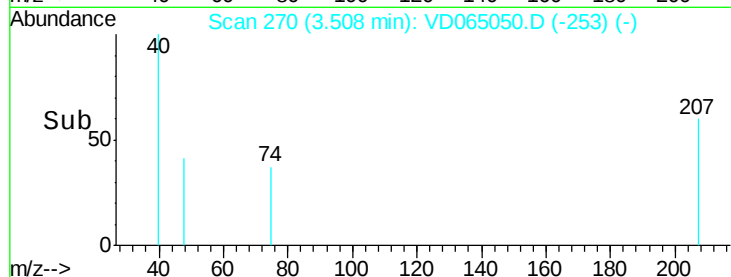


Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC



Time-->



#10

Methyl Iodide

Concen: 5.11 ug/l

RT: 4.33 min Scan# 409

Delta R.T. 0.03 min

Lab File: VD065050.D

Acq: 03 Feb 2020 13:18

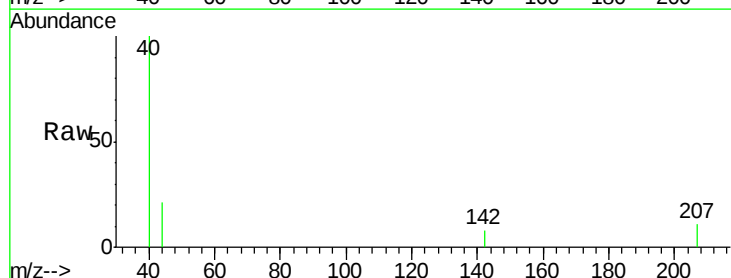
Tgt Ion: 142 Resp: 435

Ion Ratio Lower Upper

142 100

127 27.8 36.2 54.2#

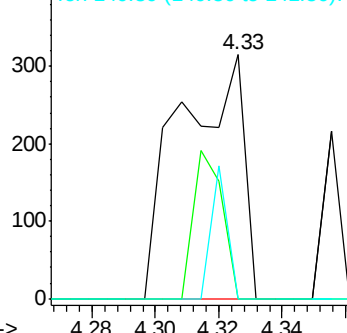
141 13.8 11.6 17.4



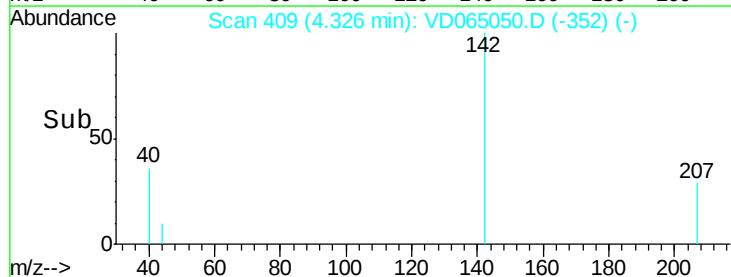
Abundance Ion 141.80 (141.50 to 142.50): V

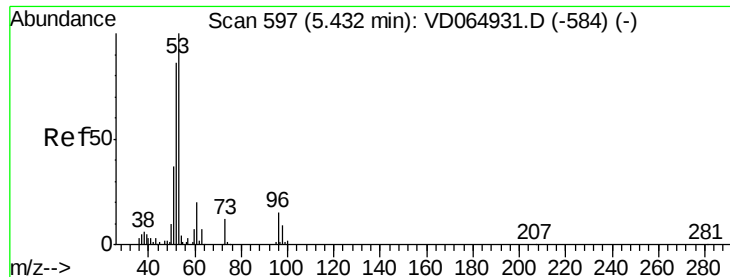
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->





#15

Acrylonitrile

Concen: 4.21 ug/l

RT: 5.42 min Scan# 595

Delta R.T. -0.01 min

Lab File: VD065050.D

Acq: 03 Feb 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

01-31-D

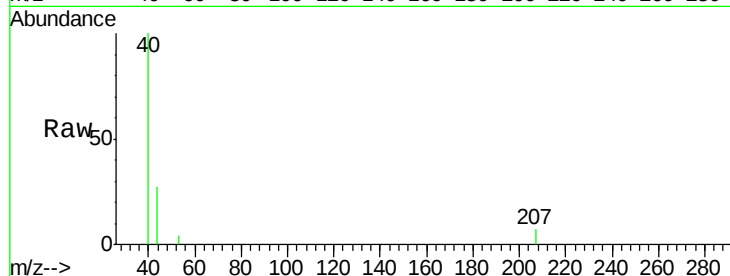
Tgt Ion: 53 Resp: 71

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

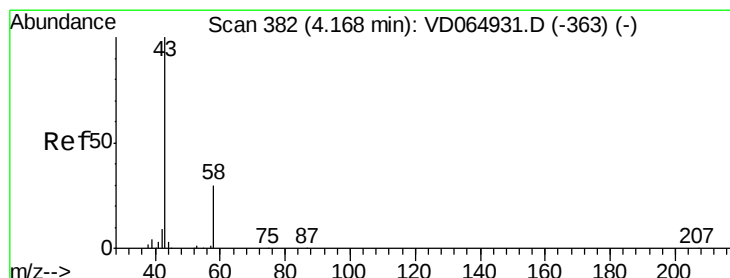
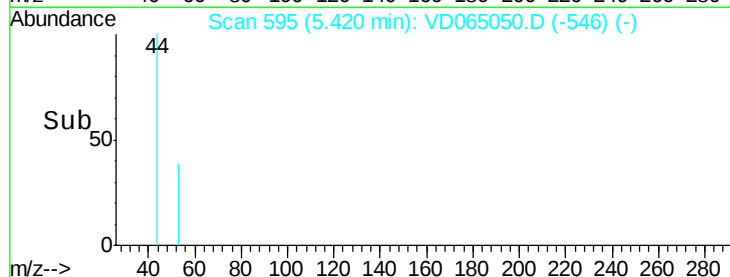
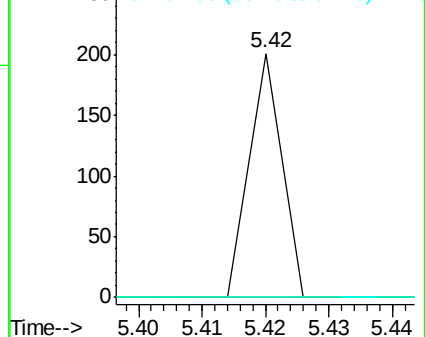
51 0.0 31.1 46.7#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 35.25 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD065050.D

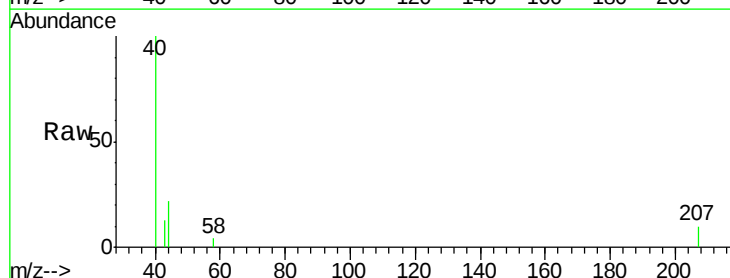
Acq: 03 Feb 2020 13:18

Tgt Ion: 43 Resp: 529

Ion Ratio Lower Upper

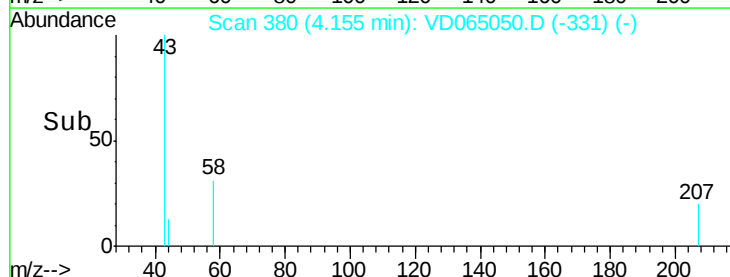
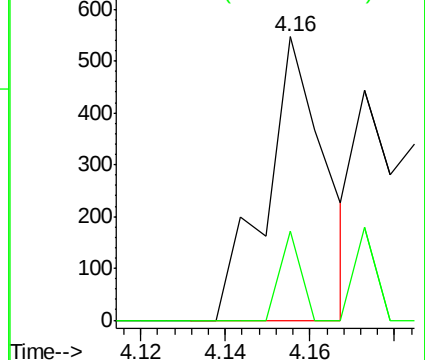
43 100

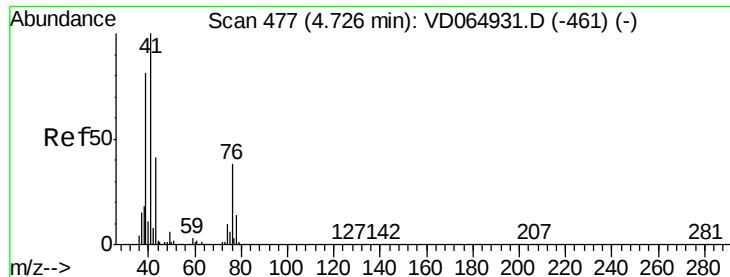
58 31.3 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

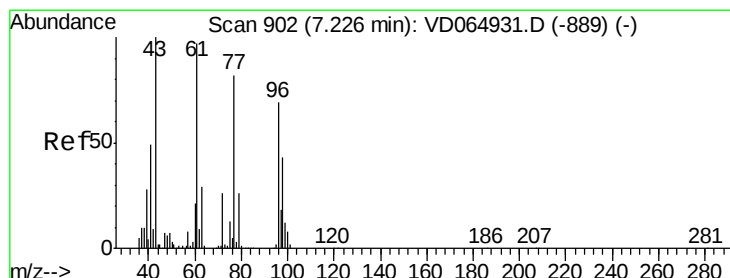
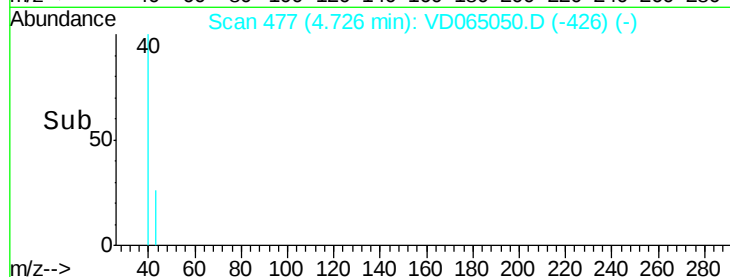
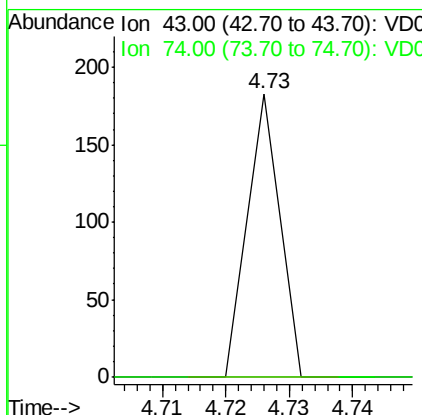
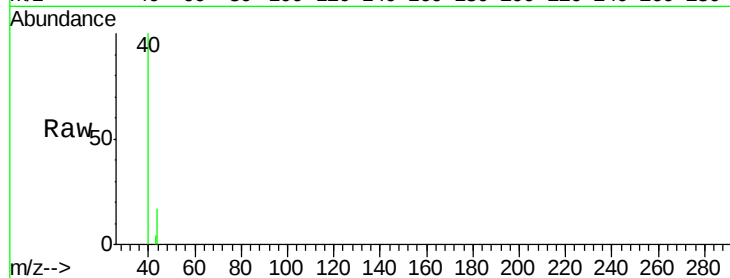




#18
Methyl Acetate
Concen: 1.64 ug/l
RT: 4.73 min Scan# 477
Delta R.T. -0.00 min
Lab File: VD065050.D
Acq: 03 Feb 2020 13:18

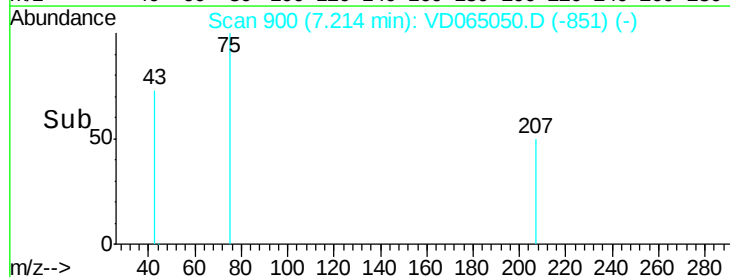
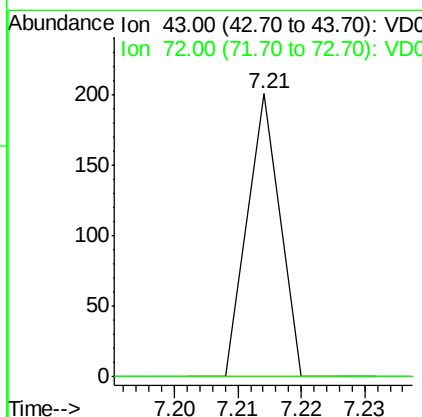
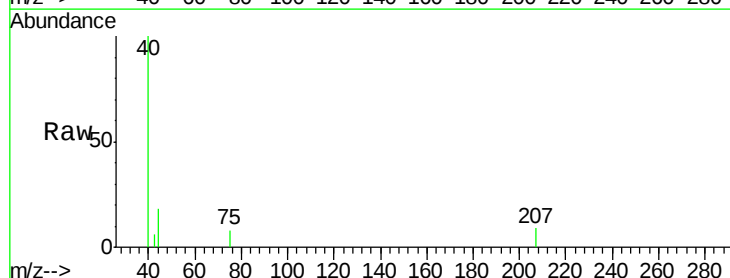
Instrument :
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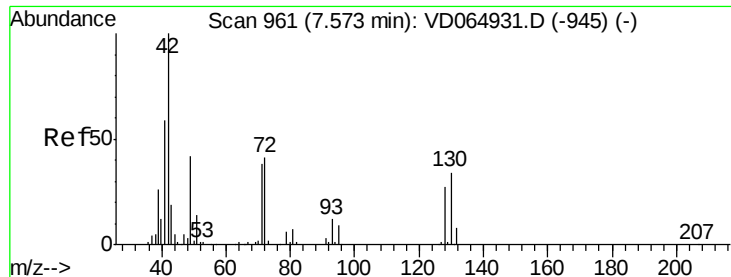
Tgt Ion: 43 Resp: 65
Ion Ratio Lower Upper
43 100
74 0.0 19.1 28.7#



#25
2-Butanone
Concen: 3.11 ug/l
RT: 7.21 min Scan# 900
Delta R.T. -0.01 min
Lab File: VD065050.D
Acq: 03 Feb 2020 13:18

Tgt Ion: 43 Resp: 71
Ion Ratio Lower Upper
43 100
72 0.0 20.6 31.0#

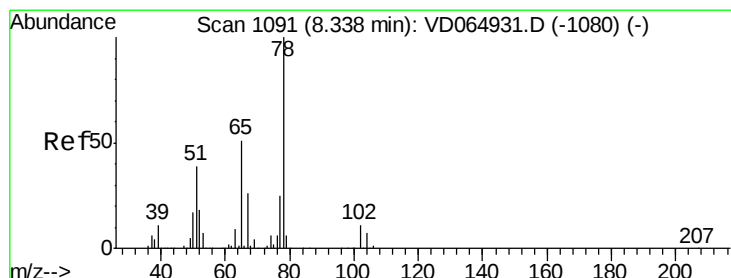
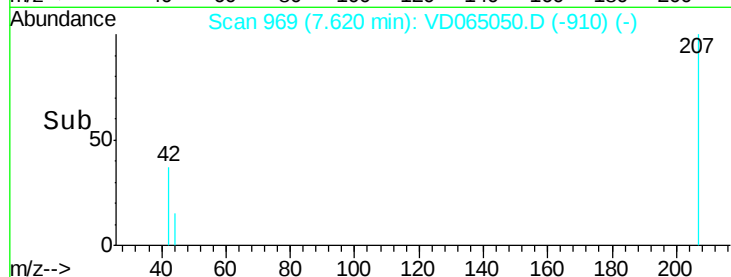
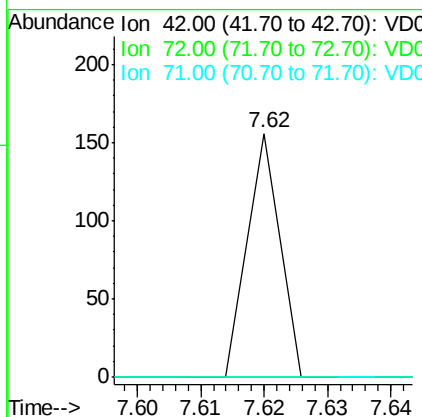
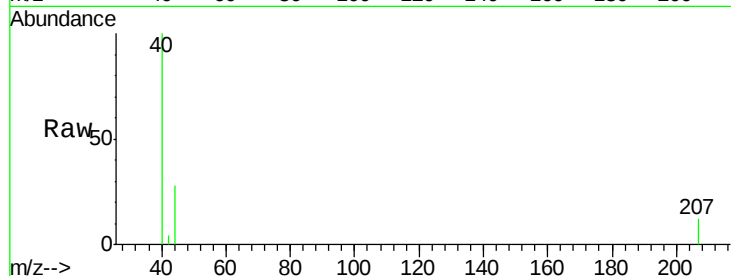




#29
Tetrahydrofuran
Concen: 3.91 ug/l
RT: 7.62 min Scan# 969
Delta R.T. 0.05 min
Lab File: VD065050.D
Acq: 03 Feb 2020 13:18

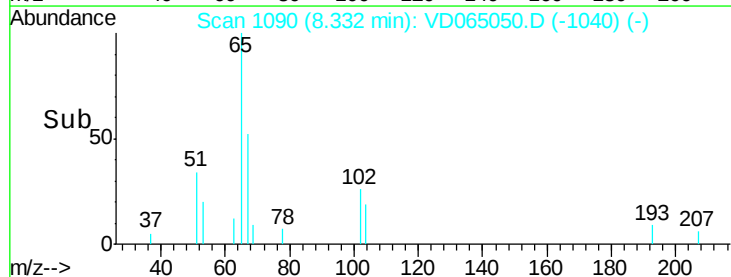
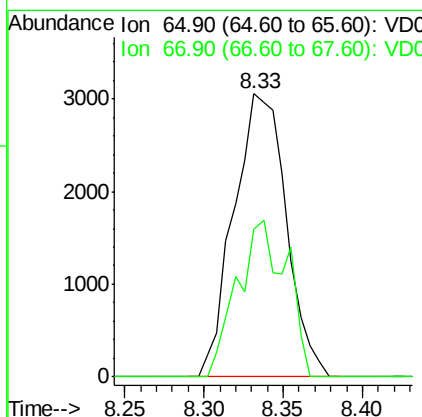
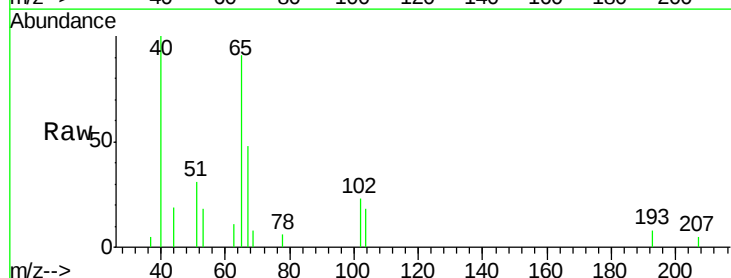
Instrument :
MSVOA_D
ClientSampleId :
01-31-D

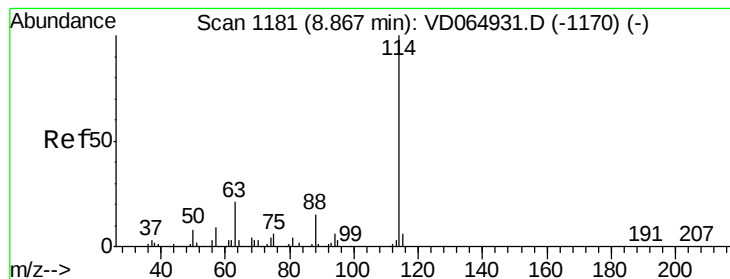
Tgt Ion: 42 Resp: 55
Ion Ratio Lower Upper
42 100
72 0.0 34.0 51.0#
71 0.0 31.5 47.3#



#33
1,2-Dichloroethane-d4
Concen: 83.06 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD065050.D
Acq: 03 Feb 2020 13:18

Tgt Ion: 65 Resp: 7014
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.87 min Scan# 1182

Delta R.T. 0.01 min

Lab File: VD065050.D

Acq: 03 Feb 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

01-31-D

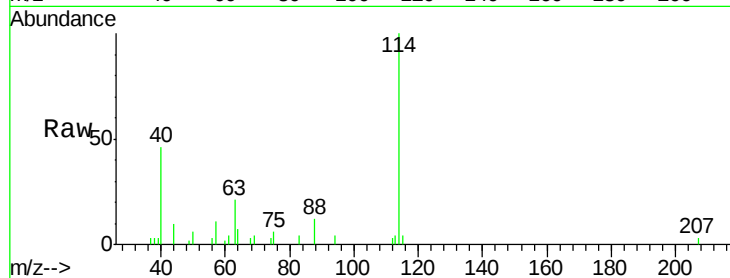
Tgt Ion:114 Resp: 13487

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.0

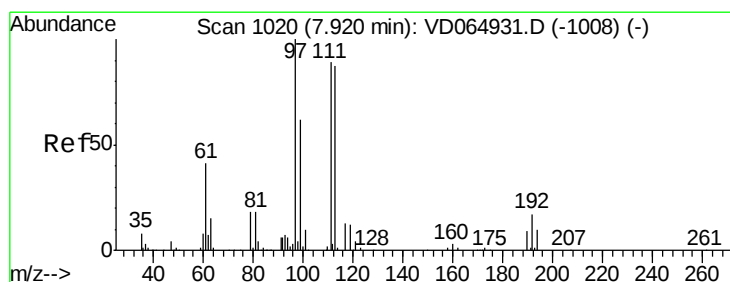
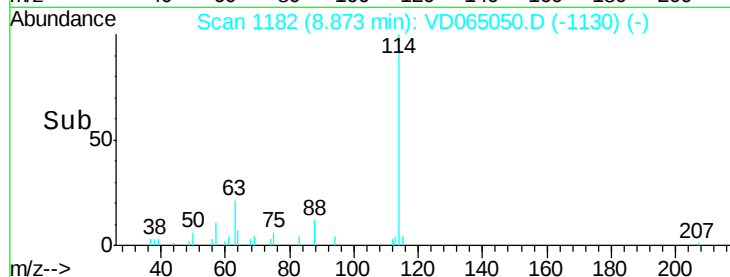
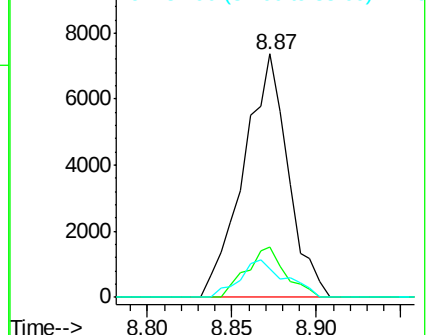
88 11.8 0.0 29.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 62.58 ug/l

RT: 7.93 min Scan# 1021

Delta R.T. 0.01 min

Lab File: VD065050.D

Acq: 03 Feb 2020 13:18

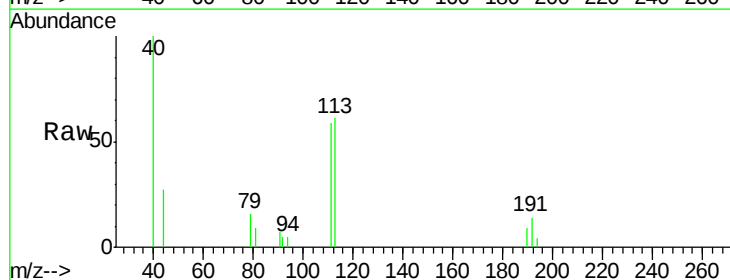
Tgt Ion:113 Resp: 5304

Ion Ratio Lower Upper

113 100

111 105.2 82.4 123.6

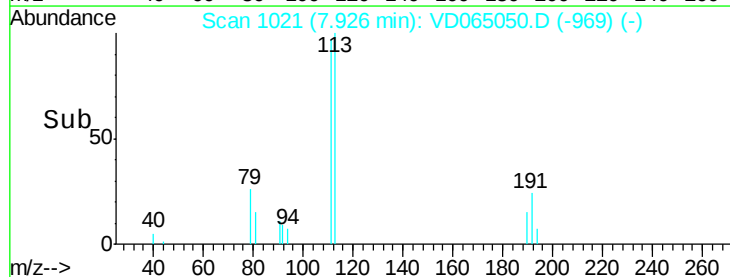
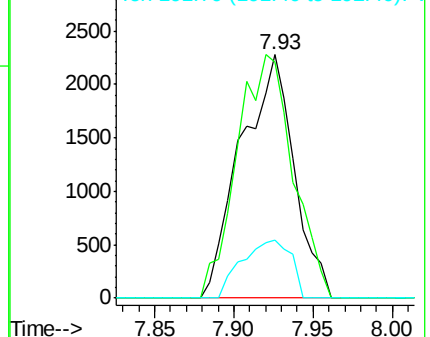
192 21.9 16.9 25.3

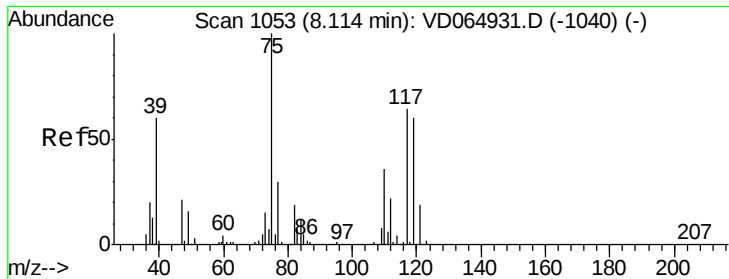


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 6.31 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD065050.D

Acq: 03 Feb 2020 13:18

Instrument :

MSVOA_D

ClientSampled :

01-31-D

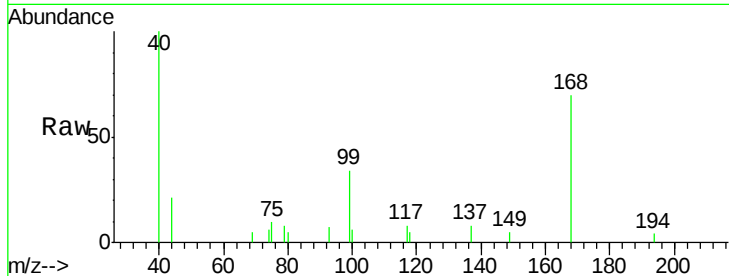
Tgt Ion: 75 Resp: 820

Ion Ratio Lower Upper

75 100

110 0.0 17.3 52.0#

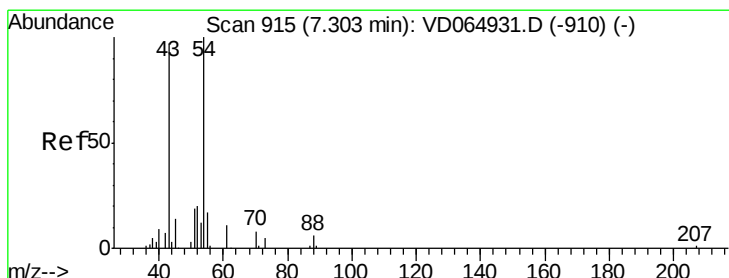
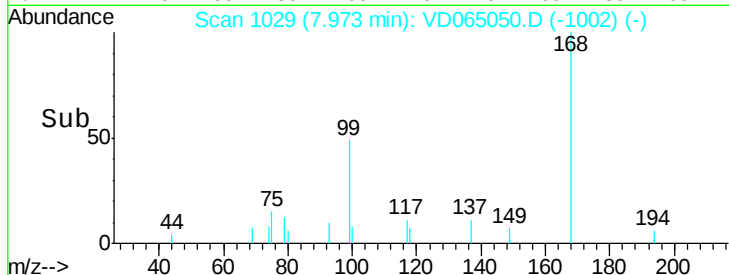
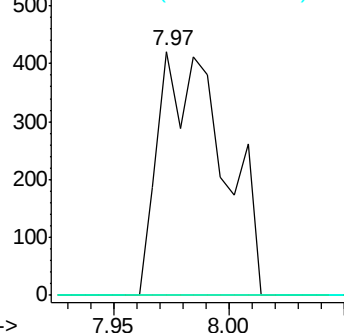
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: 1.32 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.09 min

Lab File: VD065050.D

Acq: 03 Feb 2020 13:18

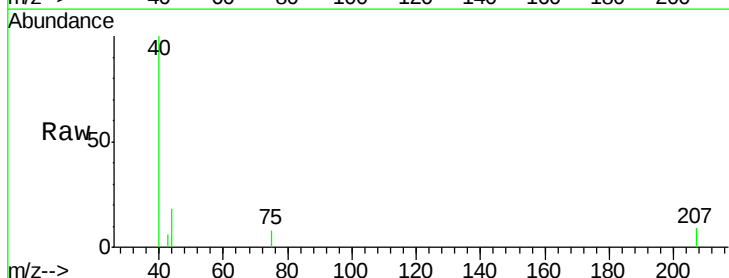
Tgt Ion: 43 Resp: 71

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

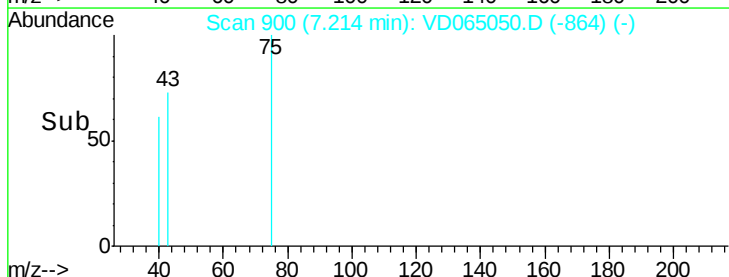
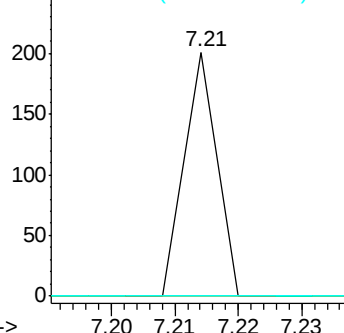
70 0.0 7.5 11.3#

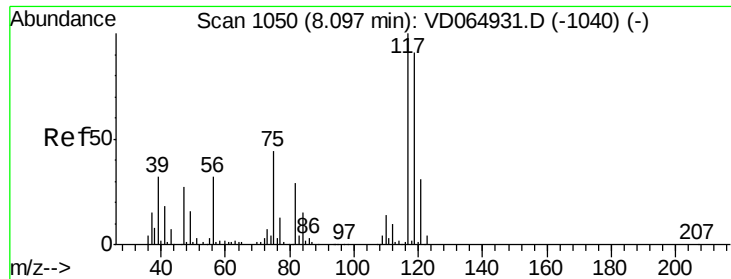


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.99 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD065050.D

Acq: 03 Feb 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

01-31-D

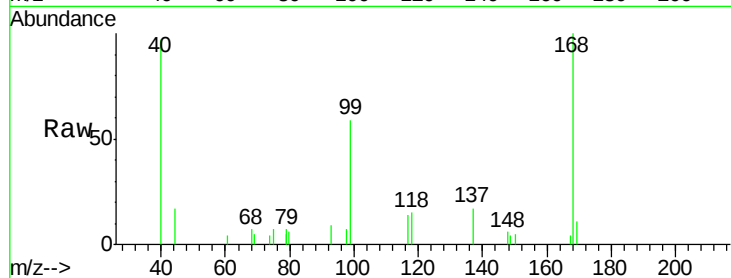
Tgt Ion:117 Resp: 823

Ion Ratio Lower Upper

117 100

119 0.0 73.2 109.8#

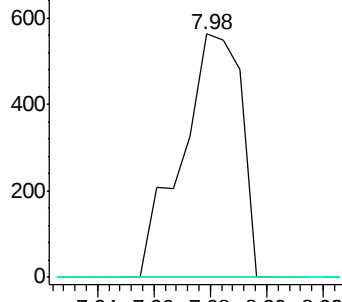
121 0.0 24.4 36.6#



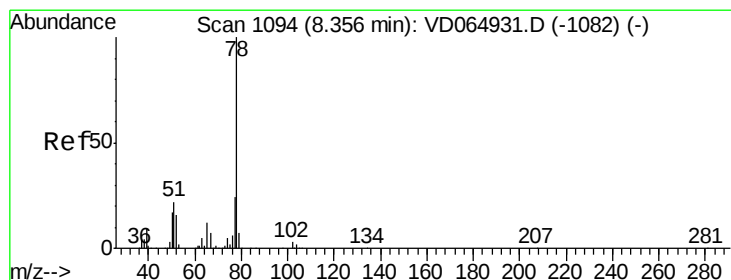
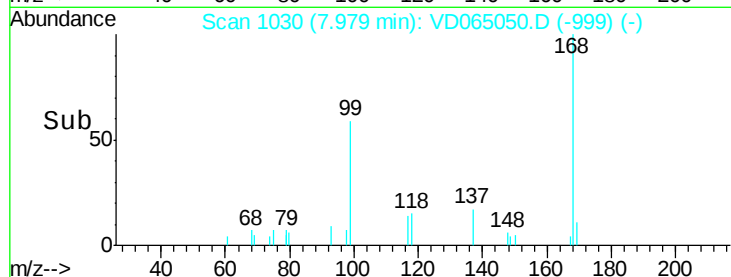
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



Time-->



#40

Benzene

Concen: 1.26 ug/l

RT: 8.34 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VD065050.D

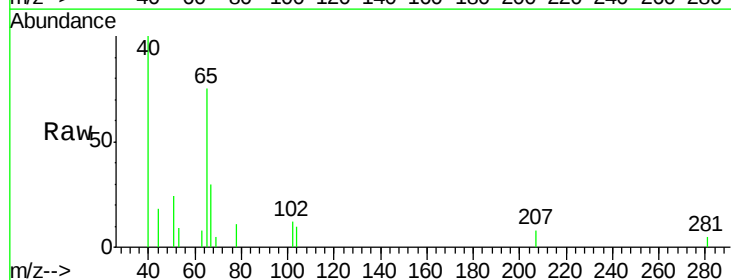
Acq: 03 Feb 2020 13:18

Tgt Ion: 78 Resp: 450

Ion Ratio Lower Upper

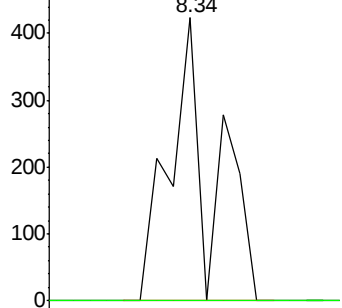
78 100

77 0.0 19.2 28.8#

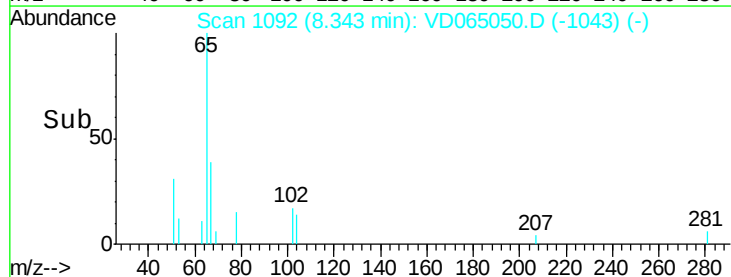


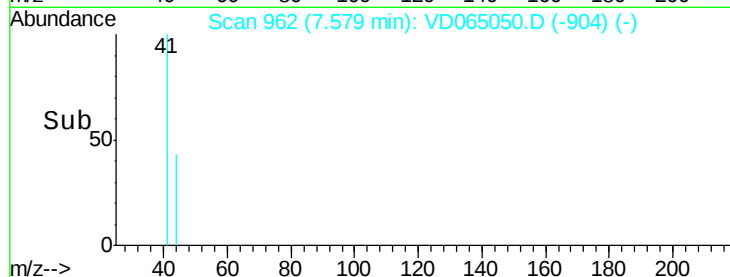
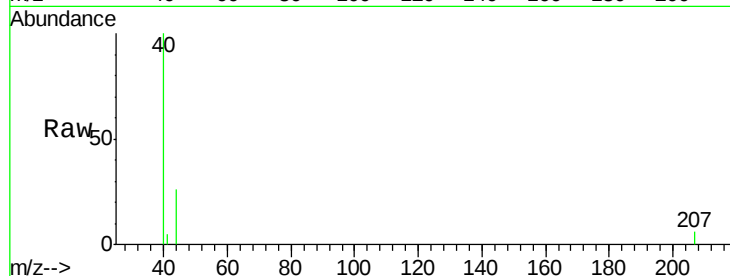
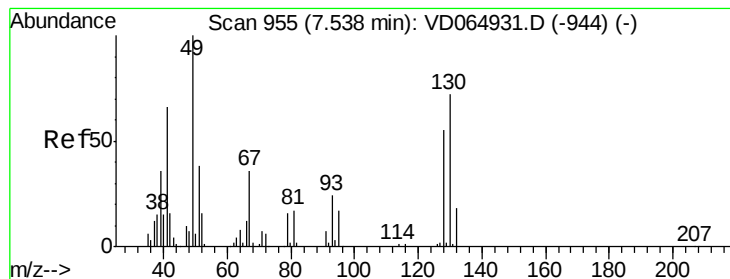
Abundance Ion 78.00 (77.70 to 78.70): V

Ion 77.00 (76.70 to 77.70): V



Time-->





#41

Methacrylonitrile

Concen: 2.14 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.04 min

Lab File: VD065050.D

Acq: 03 Feb 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

01-31-D

Tgt Ion: 41 Resp: 62

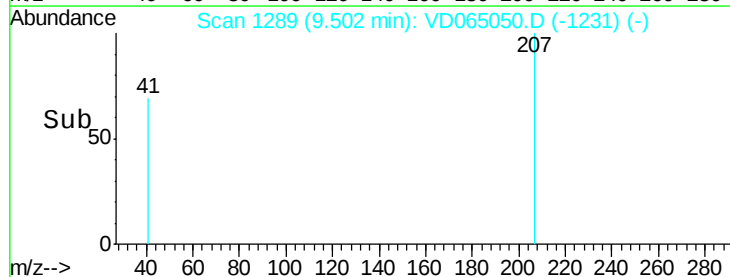
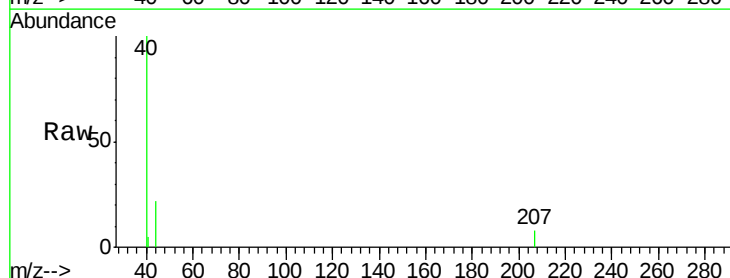
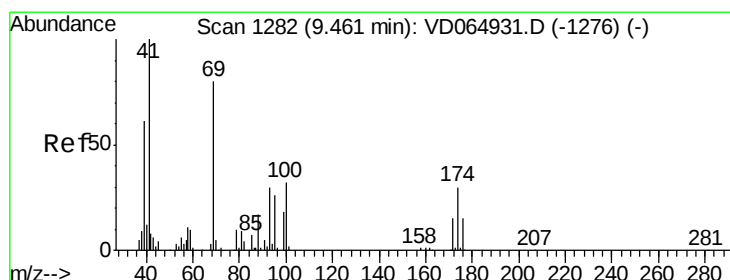
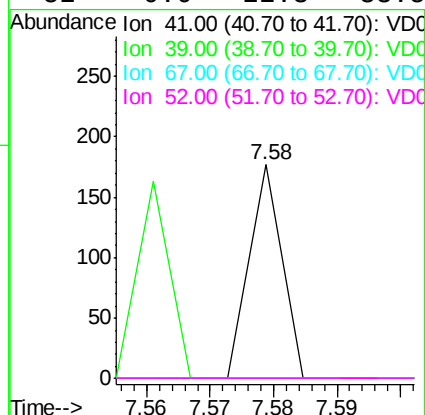
Ion Ratio Lower Upper

41 100

39 93.5 49.3 73.9#

67 0.0 51.0 76.6#

52 0.0 22.3 33.5#



#48

Methyl methacrylate

Concen: 1.32 ug/l

RT: 9.50 min Scan# 1289

Delta R.T. 0.04 min

Lab File: VD065050.D

Acq: 03 Feb 2020 13:18

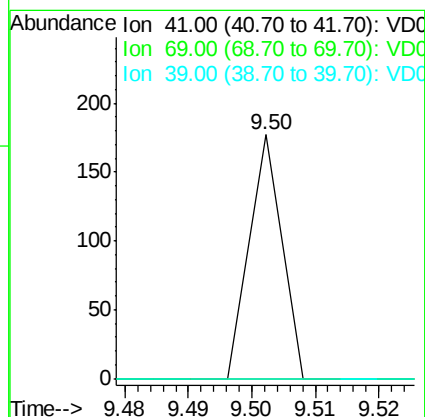
Tgt Ion: 41 Resp: 62

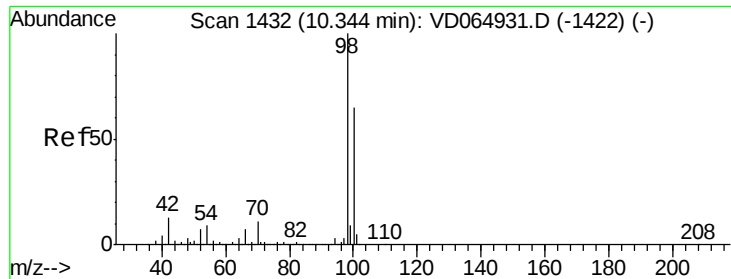
Ion Ratio Lower Upper

41 100

69 0.0 65.8 98.8#

39 0.0 49.4 74.0#





#50

Toluene-d8

Concen: 48.63 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD065050.D

Acq: 03 Feb 2020 13:18

Instrument :

MSVOA_D

ClientSampleId :

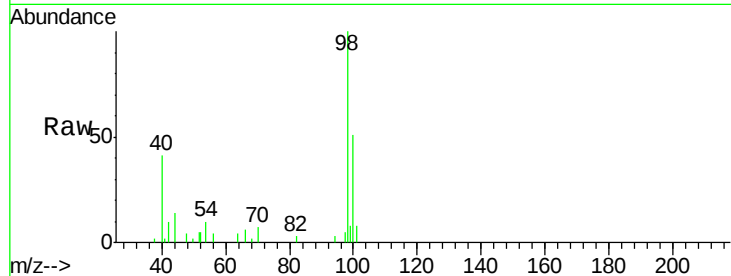
01-31-D

Tgt Ion: 98 Resp: 15909

Ion Ratio Lower Upper

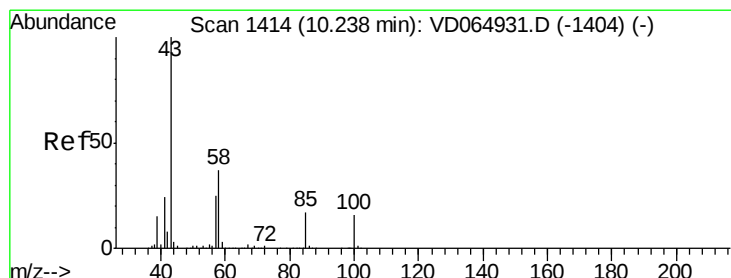
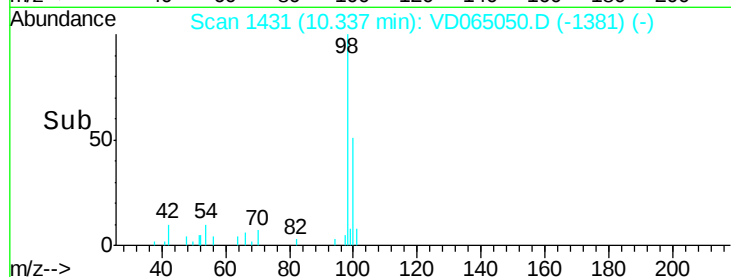
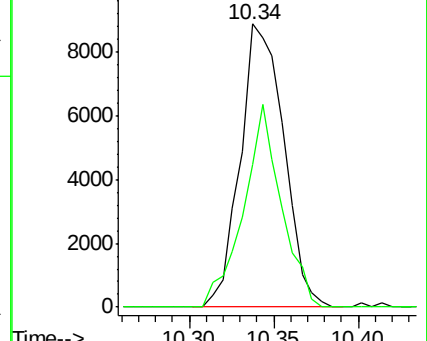
98 100

100 62.4 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.06 ug/l

RT: 10.13 min Scan# 1395

Delta R.T. -0.11 min

Lab File: VD065050.D

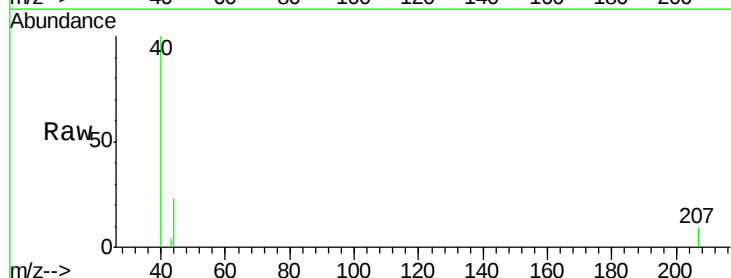
Acq: 03 Feb 2020 13:18

Tgt Ion: 43 Resp: 54

Ion Ratio Lower Upper

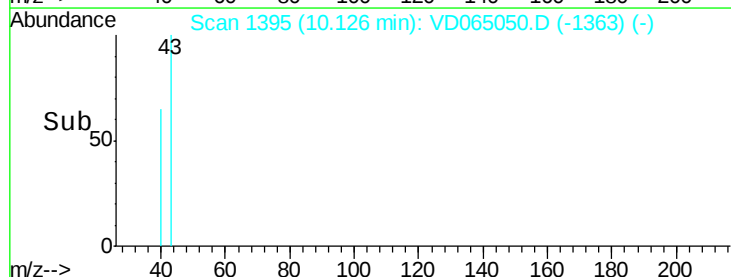
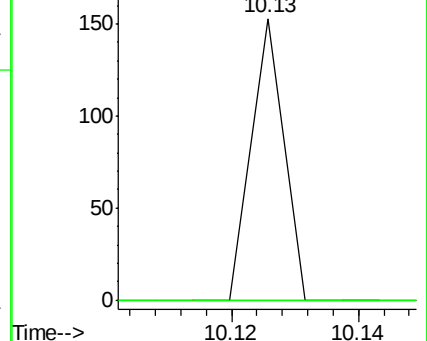
43 100

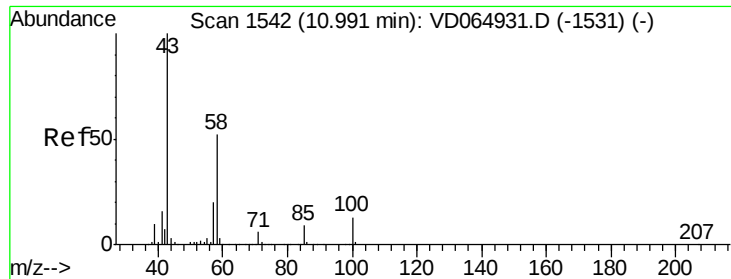
58 0.0 30.4 45.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

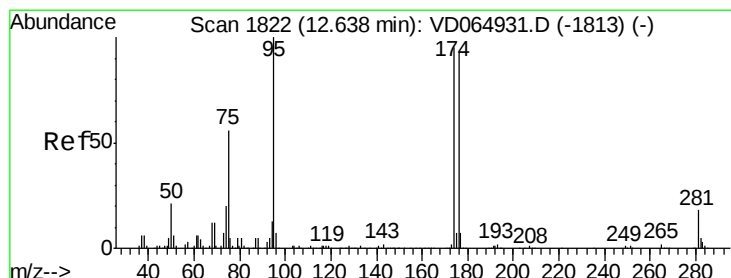
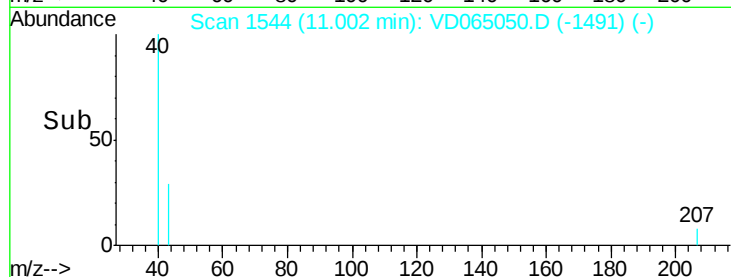
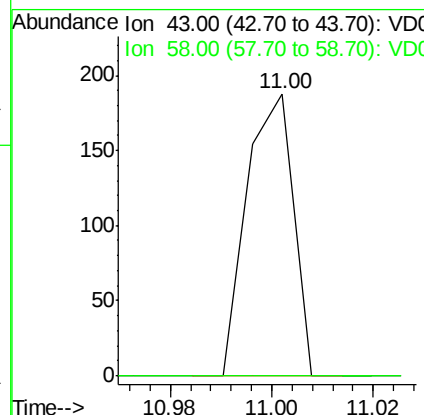
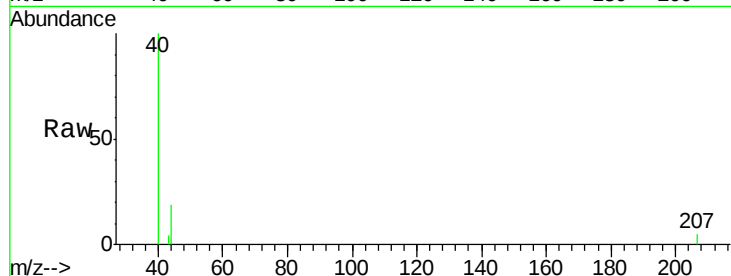




#59
2-Hexanone
Concen: 3.44 ug/l
RT: 11.00 min Scan# 1544
Delta R.T. 0.01 min
Lab File: VD065050.D
Acq: 03 Feb 2020 13:18

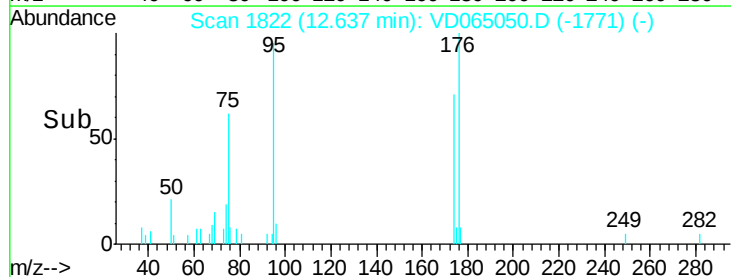
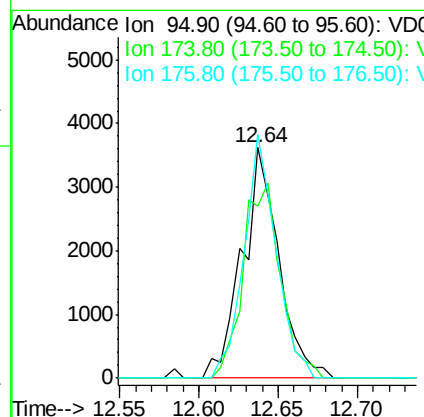
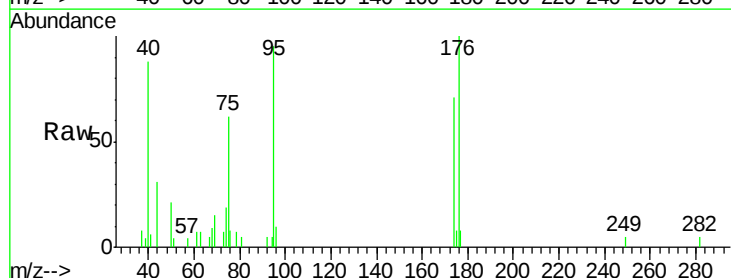
Instrument :
MSVOA_D
ClientSampleId :
01-31-D

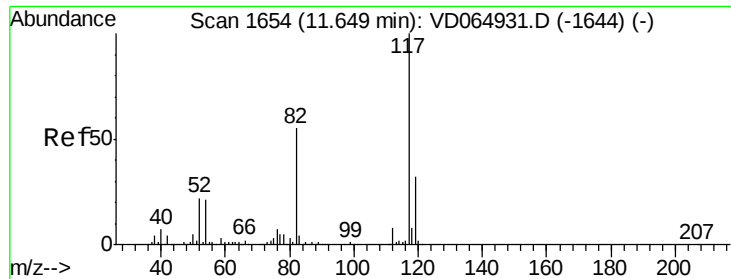
Tgt Ion: 43 Resp: 121
Ion Ratio Lower Upper
43 100
58 0.0 26.5 79.4#



#62
4-Bromofluorobenzene
Concen: 57.89 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065050.D
Acq: 03 Feb 2020 13:18

Tgt Ion: 95 Resp: 5795
Ion Ratio Lower Upper
95 100
174 87.2 0.0 186.8
176 92.5 0.0 183.4

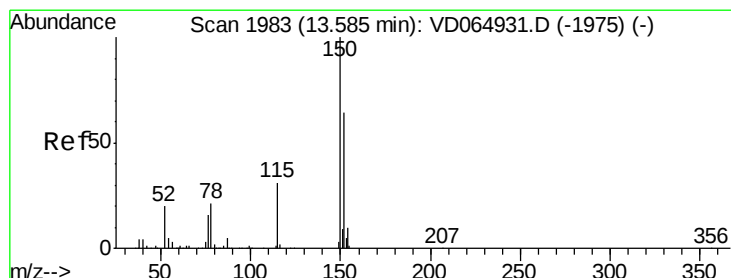
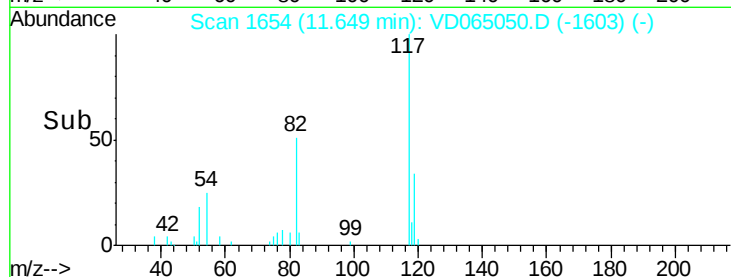
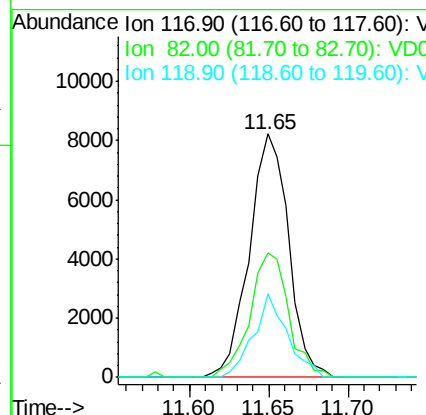
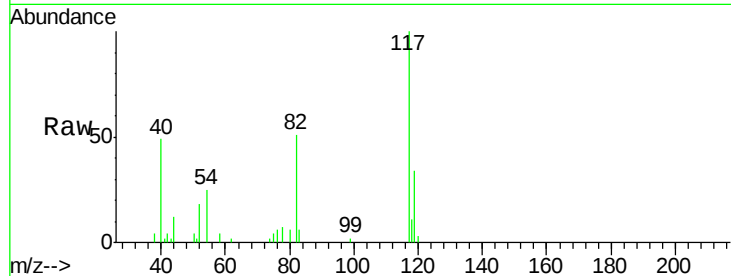




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065050.D
Acq: 03 Feb 2020 13:18

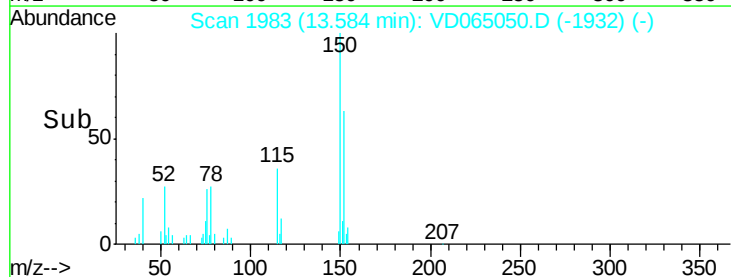
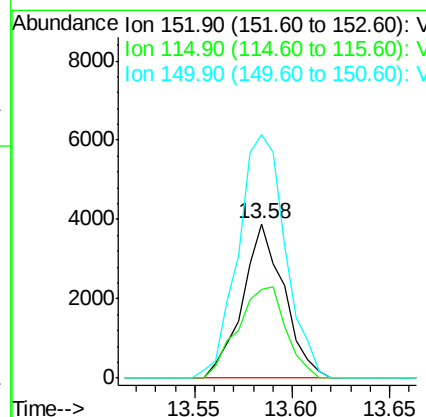
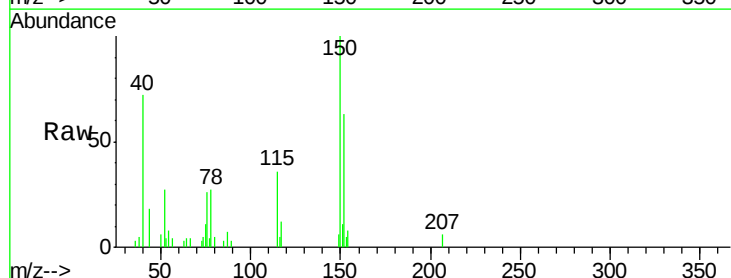
Instrument :
MSVOA_D
ClientSampleId :
01-31-D

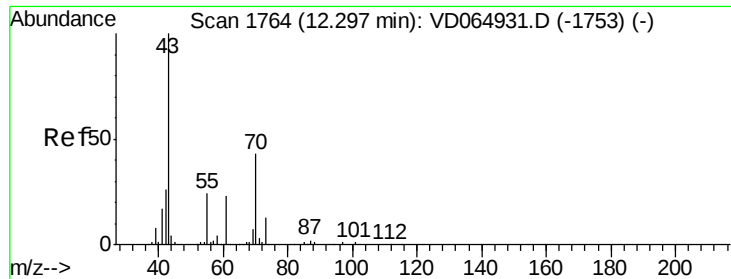
Tgt Ion:117 Resp: 14152
Ion Ratio Lower Upper
117 100
82 51.1 43.6 65.4
119 34.4 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065050.D
Acq: 03 Feb 2020 13:18

Tgt Ion:152 Resp: 5741
Ion Ratio Lower Upper
152 100
115 68.6 28.1 84.4
150 179.5 0.0 350.4

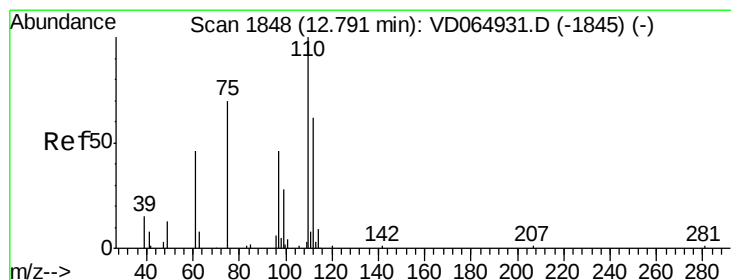
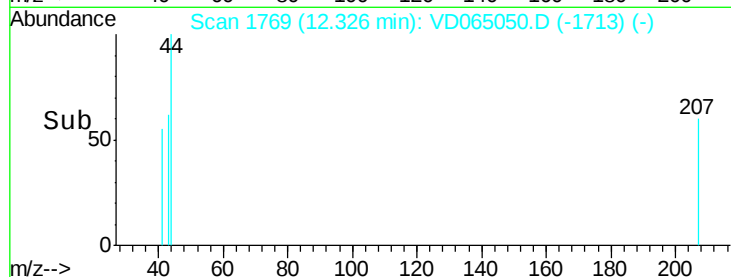
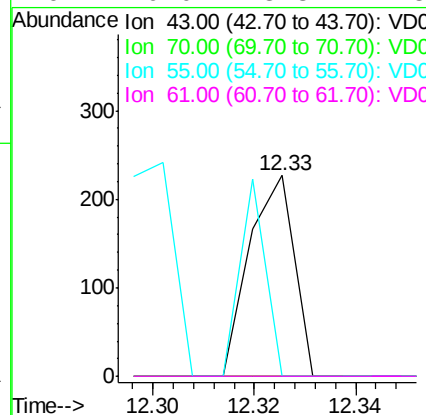
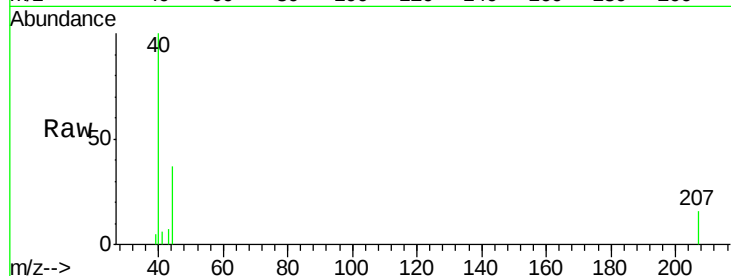




#74
N-ethyl acetate
Concen: 1.58 ug/l
RT: 12.33 min Scan# 1769
Delta R.T. 0.03 min
Lab File: VD065050.D
Acq: 03 Feb 2020 13:18

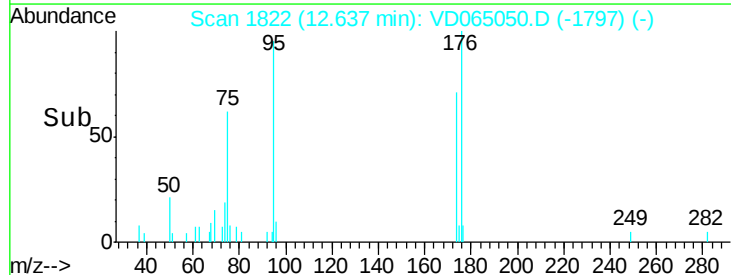
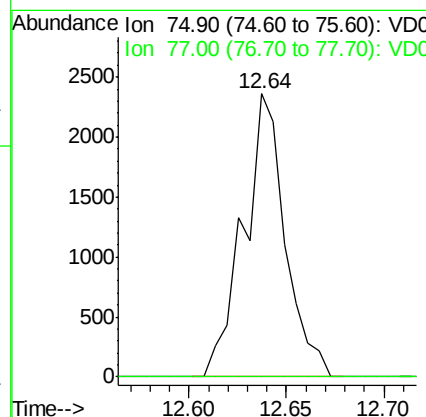
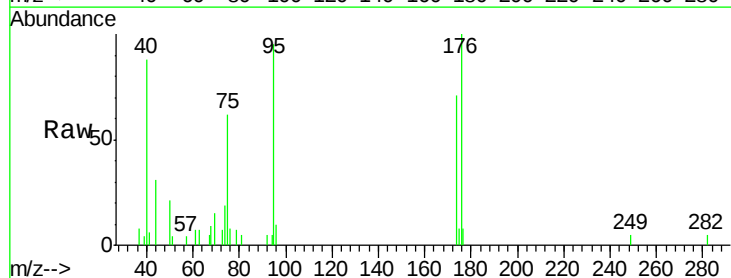
Instrument :
MSVOA_D
ClientSampleId :
01-31-D

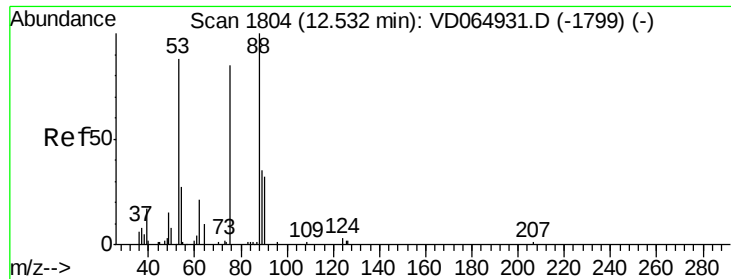
Tgt Ion: 43 Resp: 139
Ion Ratio Lower Upper
43 100
70 0.0 32.6 49.0#
55 56.8 19.9 29.9#
61 0.0 18.3 27.5#



#76
1,2,3-Trichloropropane
Concen: 72.95 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.15 min
Lab File: VD065050.D
Acq: 03 Feb 2020 13:18

Tgt Ion: 75 Resp: 3476
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0

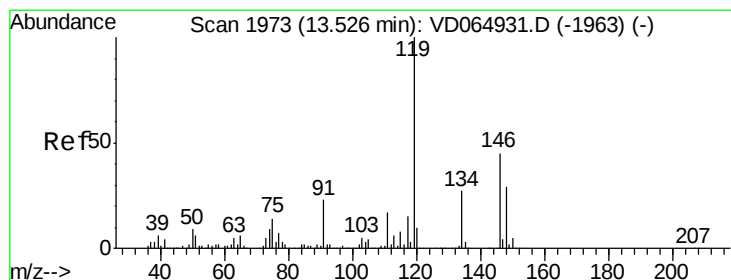
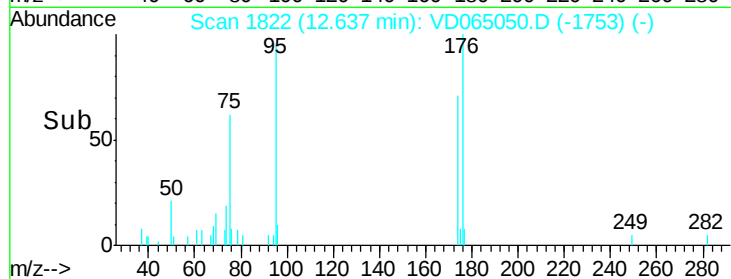
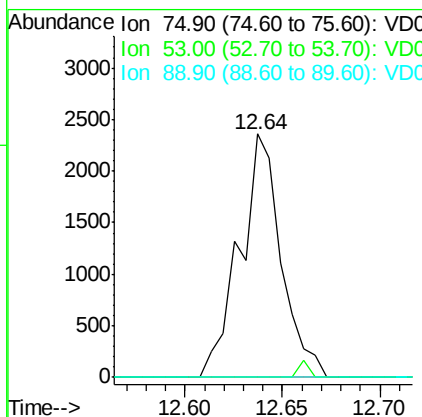
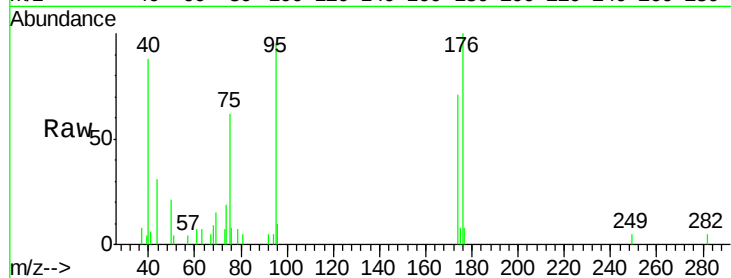




#81
trans-1,4-Dichloro-2-butene
Concen: 155.76 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.11 min
Lab File: VD065050.D
Acq: 03 Feb 2020 13:18

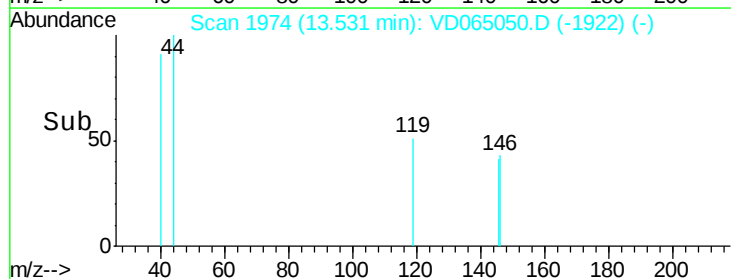
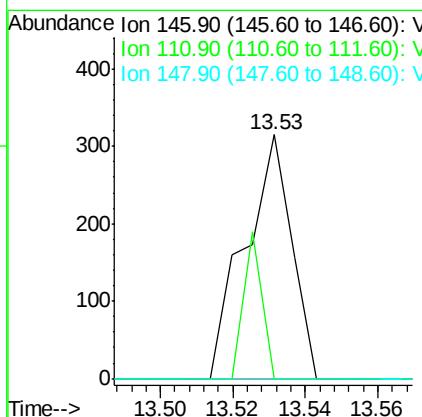
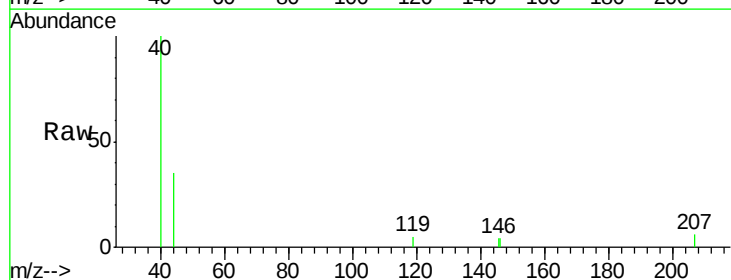
Instrument :
MSVOA_D
ClientSampleId :
01-31-D

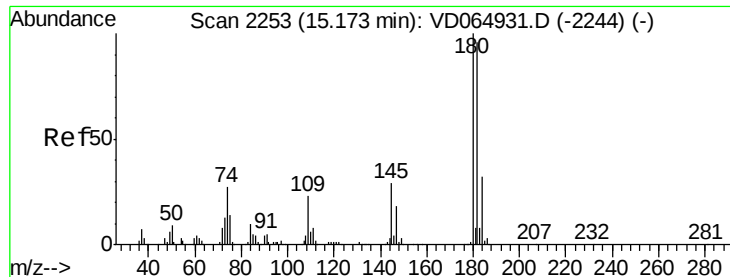
Tgt Ion: 75 Resp: 3476
Ion Ratio Lower Upper
75 100
53 0.0 81.0 121.4#
89 0.0 36.2 54.4#



#87
1,3-Dichlorobenzene
Concen: 1.54 ug/l
RT: 13.53 min Scan# 1974
Delta R.T. 0.01 min
Lab File: VD065050.D
Acq: 03 Feb 2020 13:18

Tgt Ion: 146 Resp: 283
Ion Ratio Lower Upper
146 100
111 23.7 18.9 56.9
148 0.0 32.6 97.7#

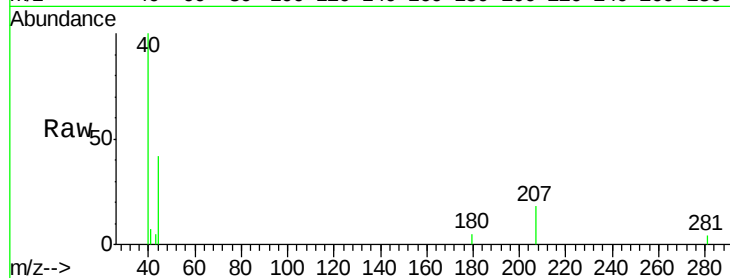




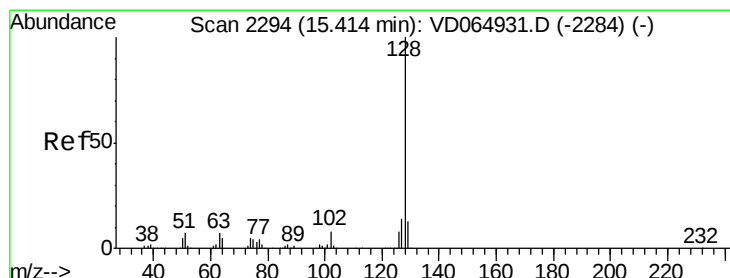
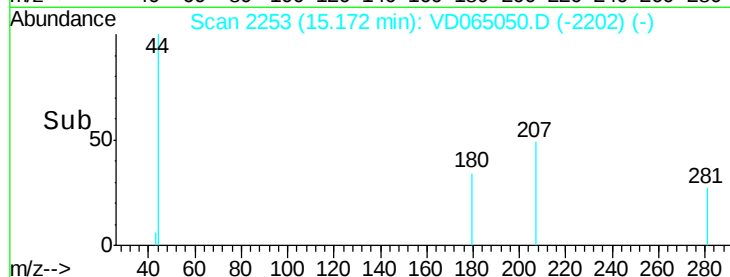
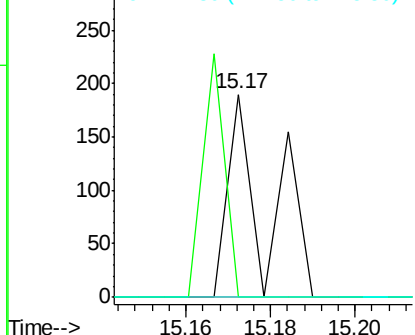
#93
 1,2,4-Trichlorobenzene
 Concen: 1.13 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VD065050.D
 Acq: 03 Feb 2020 13:18

Instrument :
 MSVOA_D
 ClientSampleId :
 01-31-D

Tgt Ion:180 Resp: 122
 Ion Ratio Lower Upper
 180 100
 182 65.6 47.1 141.4
 145 0.0 14.1 42.3#

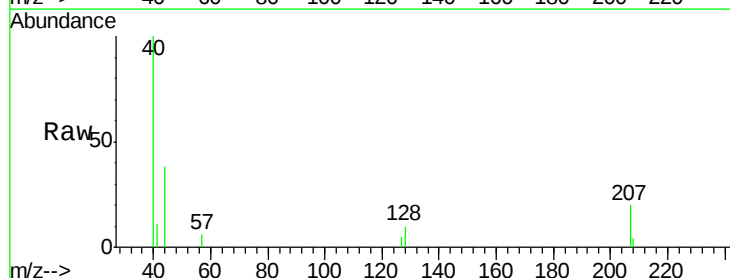


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.62 ug/l
 RT: 15.40 min Scan# 2292
 Delta R.T. -0.01 min
 Lab File: VD065050.D
 Acq: 03 Feb 2020 13:18

Tgt Ion:128 Resp: 632
 Ion Ratio Lower Upper
 128 100
 127 20.6 10.6 15.8#
 129 0.0 9.3 13.9#



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

