

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD021020\
 Data File : VD065129.D
 Acq On : 10 Feb 2020 13:24
 Operator : VA/SY
 Sample : L1470-06
 Misc : 4.95G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Feb 11 08:06:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 05 15:53:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	11571	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	17124	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	18157	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	8320	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	7927	80.61	ug/l	0.00
Spiked Amount			Recovery	=	161.22%	
35) Dibromofluoromethane	7.91	113	6547	68.53	ug/l	0.00
Spiked Amount			Recovery	=	137.06%	
50) Toluene-d8	10.34	98	20185	53.08	ug/l	0.00
Spiked Amount			Recovery	=	106.16%	
62) 4-Bromofluorobenzene	12.64	95	6769	56.18	ug/l	0.00
Spiked Amount			Recovery	=	112.36%	

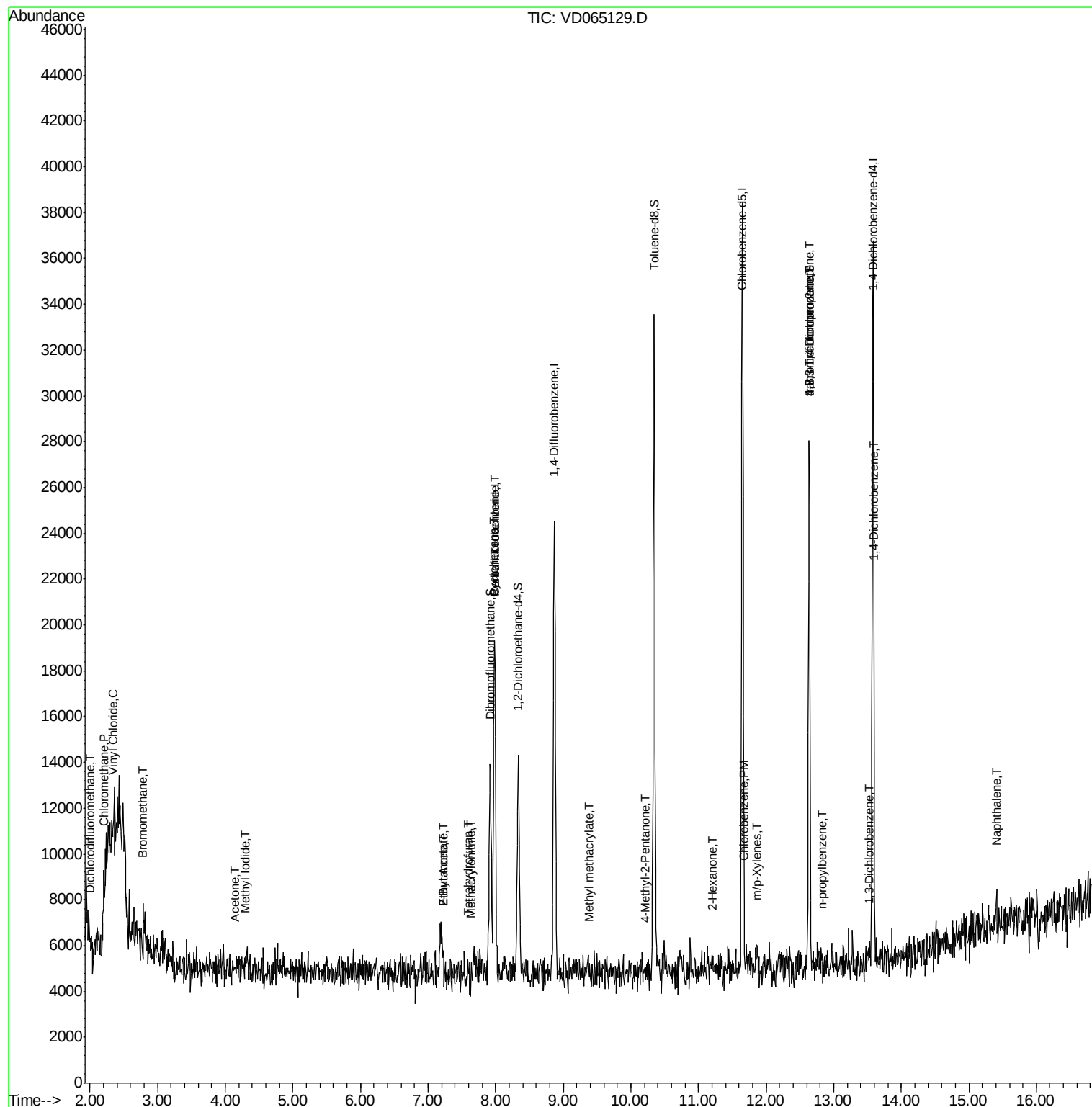
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	97	1.007	ug/l #	43
3) Chloromethane	2.20	50	739	6.520	ug/l #	1
4) Vinyl Chloride	2.34	62	146	1.218	ug/l #	20
5) Bromomethane	2.79	94	1002	12.891	ug/l	97
10) Methyl Iodide	4.29	142	219	1.799	ug/l #	41
16) Acetone	4.16	43	126	5.125	ug/l #	45
20) Methylene Chloride	4.97	84	62	Below Cal	#	6
25) 2-Butanone	7.22	43	201	6.853	ug/l #	50
29) Tetrahydrofuran	7.58	42	67	3.778	ug/l #	34
31) Cyclohexane	7.97	56	257	1.314	ug/l #	83
37) Ethyl Acetate	7.22	43	201	3.090	ug/l #	66
38) Carbon Tetrachloride	7.98	117	1039	6.389	ug/l #	11
41) Methacrylonitrile	7.64	41	64	1.786	ug/l #	42
48) Methyl methacrylate	9.38	41	82	1.369	ug/l #	13
51) 4-Methyl-2-Pentanone	10.21	43	110	1.796	ug/l #	37
59) 2-Hexanone	11.21	43	68	1.567	ug/l #	26
65) Chlorobenzene	11.68	112	385	1.096	ug/l #	43
68) m/p-Xylenes	11.86	106	246	1.010	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	3728	59.183	ug/l #	100
78) n-propylbenzene	12.83	91	701	1.048	ug/l #	69
81) trans-1,4-Dichloro-2-buten	12.64	75	3728	118.361	ug/l #	10
87) 1,3-Dichlorobenzene	13.53	146	298	1.157	ug/l #	40
88) 1,4-Dichlorobenzene	13.60	146	343	1.338	ug/l #	25
95) Naphthalene	15.41	128	491	1.873	ug/l #	80

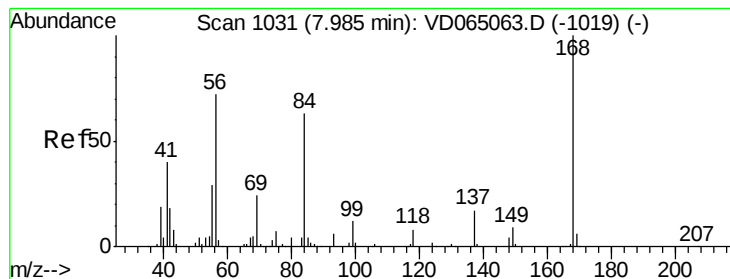
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 11 08:06:18 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 05 15:53:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065129.D

Acq: 10 Feb 2020 13:24

Instrument :

MSVOA_D

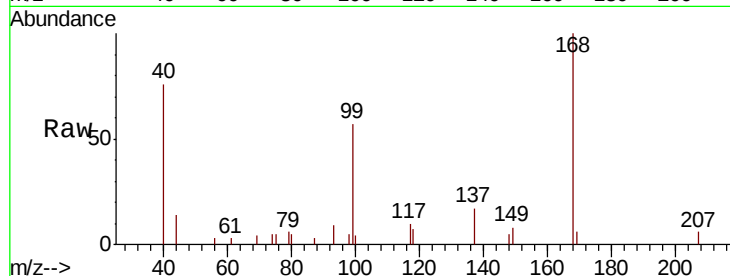
ClientSampleId :

Tot Ion:168 Resp: 11571

Ion Ratio Lower Upper

168 100

99 56.8 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

6000

5000

4000

3000

2000

1000

0

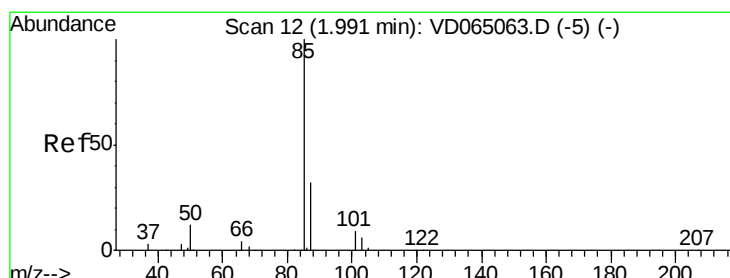
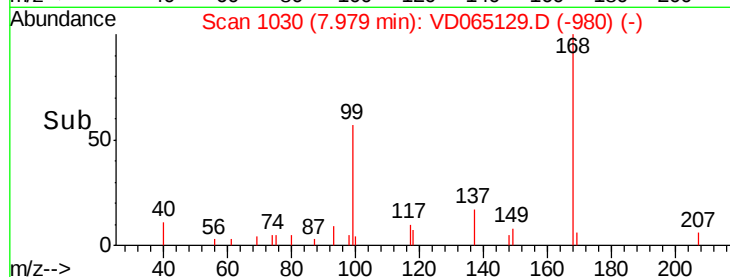
7.90

7.95

8.00

8.05

Time-->



#2

Dichlorodifluoromethane

Concen: 1.007 ug/l

RT: 2.00 min Scan# 13

Delta R.T. 0.01 min

Lab File: VD065129.D

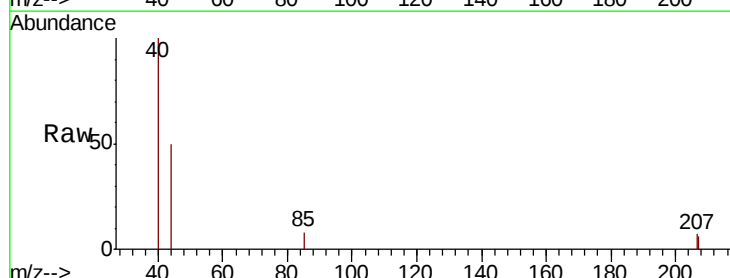
Acq: 10 Feb 2020 13:24

Tgt Ion: 85 Resp: 97

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.3#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

2.00

300

250

200

150

100

50

0

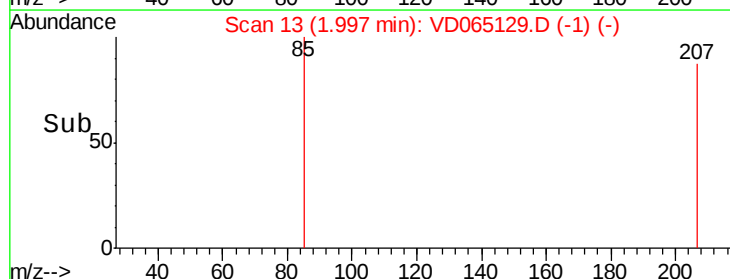
1.98

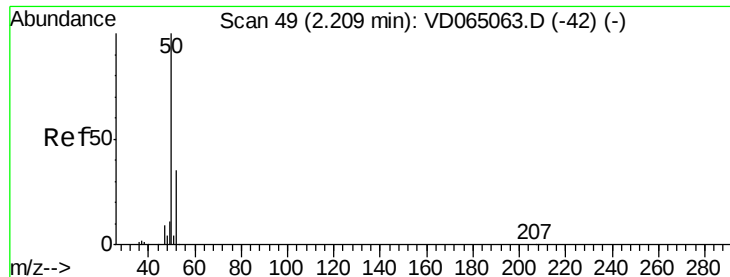
1.99

2.00

2.01

Time-->





#3

Chloromethane

Concen: 6.520 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD065129.D

Acq: 10 Feb 2020 13:24

Instrument :

MSVOA_D

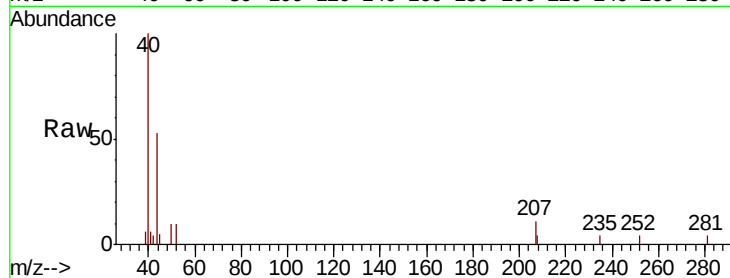
ClientSampleId :

Tot Ion: 50 Resp: 739

Ion Ratio Lower Upper

50 100

52 97.8 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.20

400

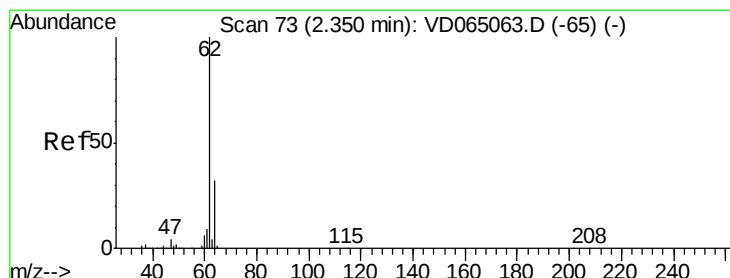
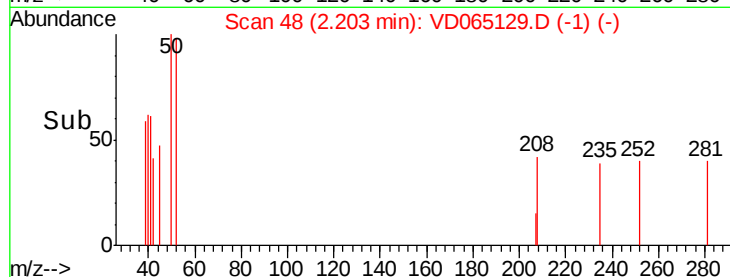
300

200

100

0

Time--> 2.15 2.20 2.25



#4

Vinyl Chloride

Concen: 1.218 ug/l

RT: 2.34 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD065129.D

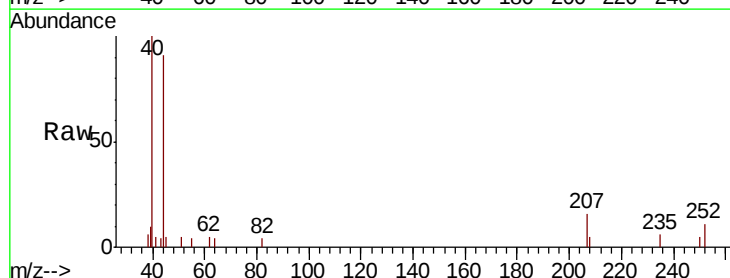
Acq: 10 Feb 2020 13:24

Tgt Ion: 62 Resp: 146

Ion Ratio Lower Upper

62 100

64 77.1 25.9 38.9#



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC

250

200

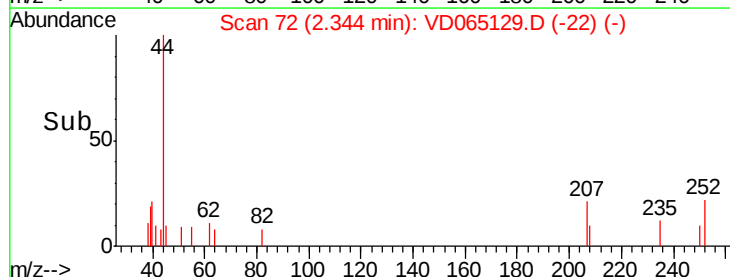
150

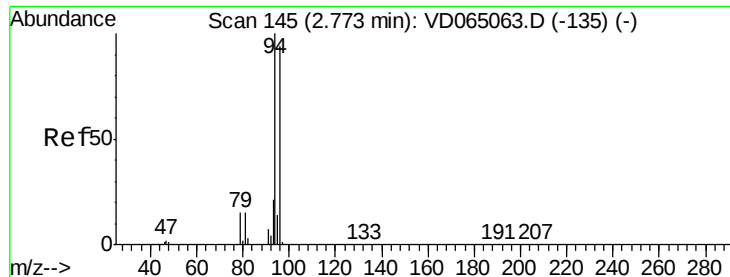
100

50

0

Time--> 2.32 2.34 2.36





#5

Bromomethane

Concen: 12.891 ug/l

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD065129.D

Acq: 10 Feb 2020 13:24

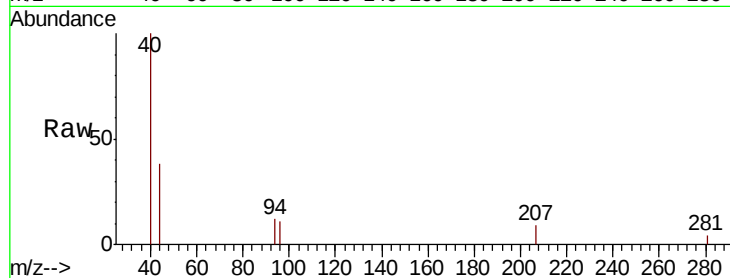
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 94 Resp: 1002

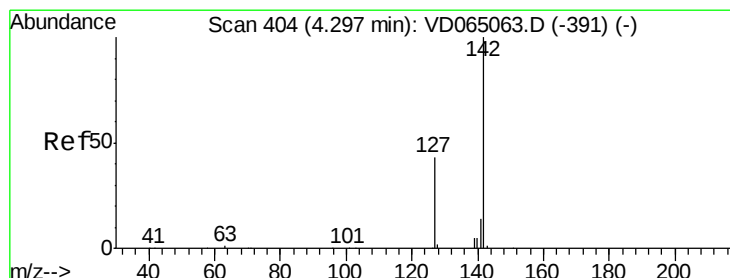
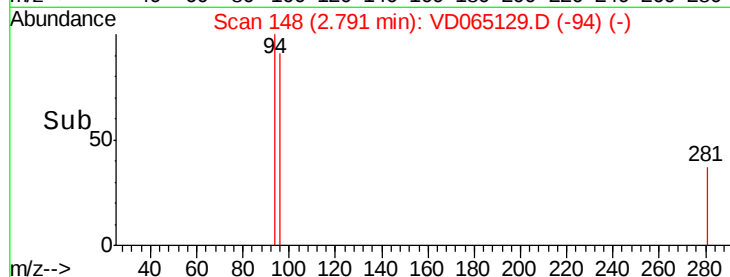
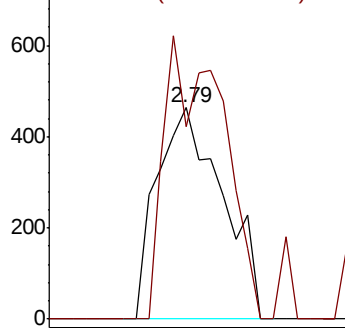
Ion Ratio Lower Upper

94 100

96 91.4 75.4 113.0



Abundance Ion 93.90 (93.60 to 94.60): VDC
Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 1.799 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.01 min

Lab File: VD065129.D

Acq: 10 Feb 2020 13:24

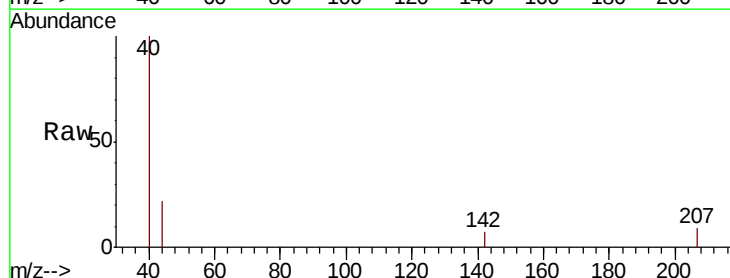
Tgt Ion:142 Resp: 219

Ion Ratio Lower Upper

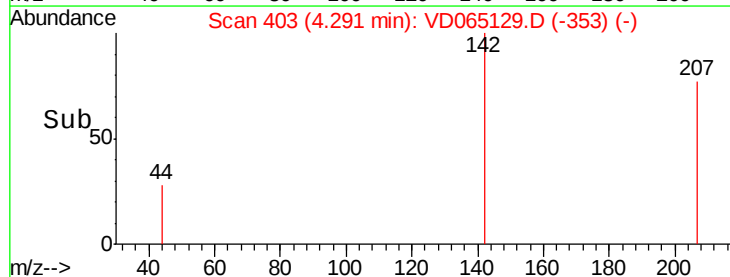
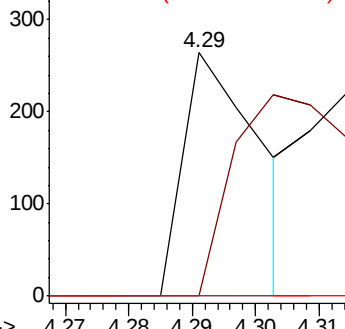
142 100

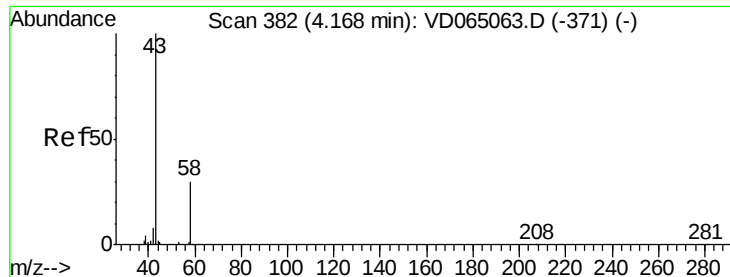
127 0.0 34.0 51.0#

141 0.0 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





#16

Acetone

Concen: 5.125 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD065129.D

Acq: 10 Feb 2020 13:24

Instrument :

MSVOA_D

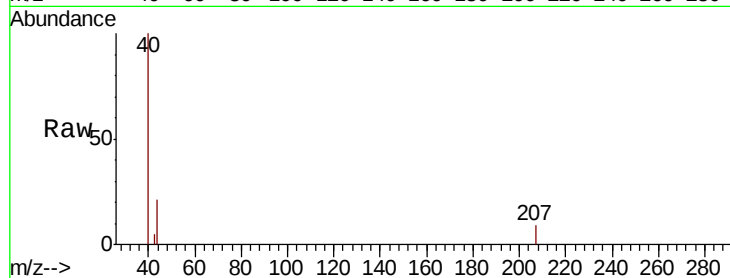
ClientSampled :

Tot Ion: 43 Resp: 126

Ion Ratio Lower Upper

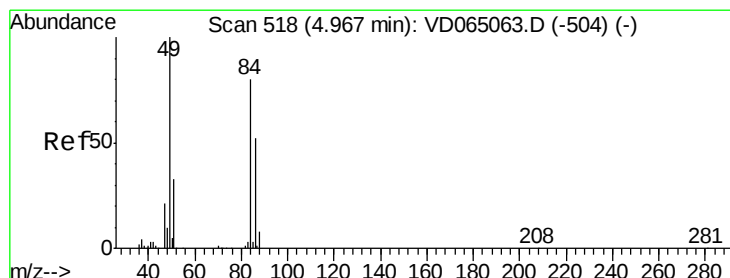
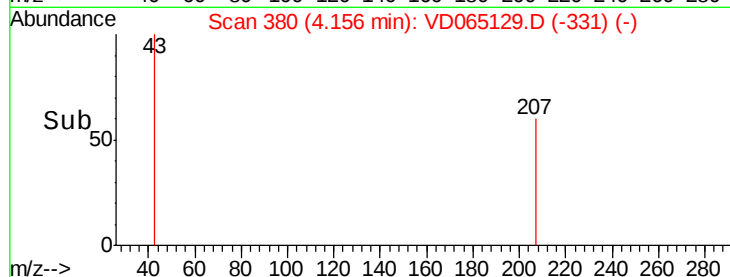
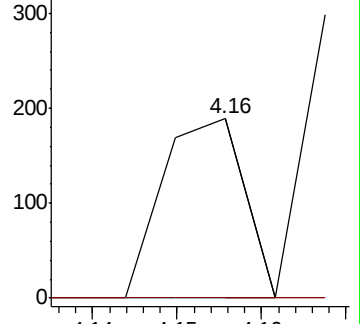
43 100

58 0.0 23.5 35.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD065129.D

Acq: 10 Feb 2020 13:24

Tgt Ion: 84 Resp: 62

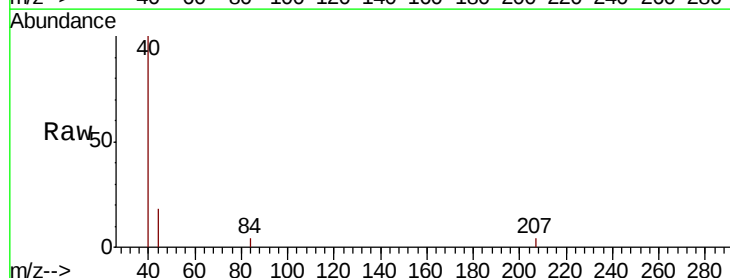
Ion Ratio Lower Upper

84 100

49 0.0 100.4 150.6#

51 0.0 32.7 49.1#

86 0.0 52.4 78.6#

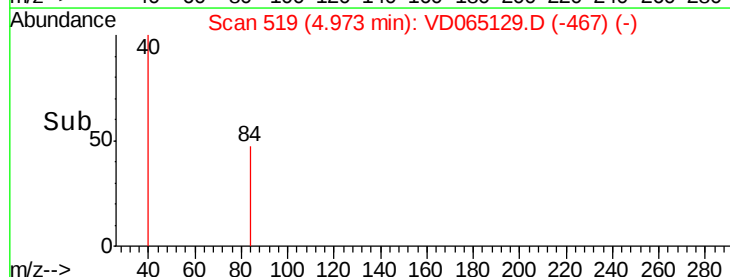
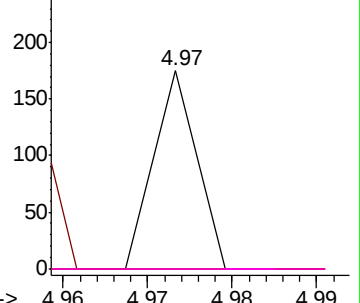


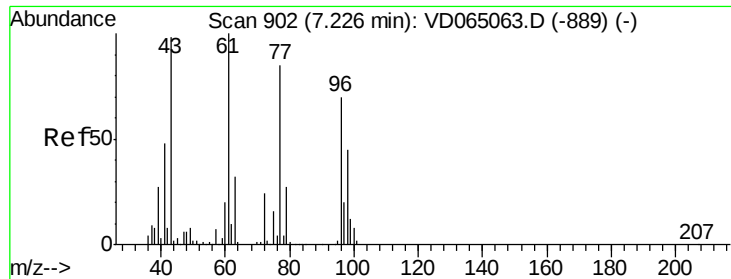
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 6.853 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD065129.D

Acq: 10 Feb 2020 13:24

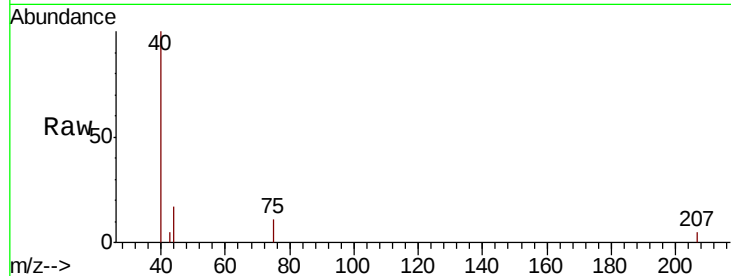
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 201

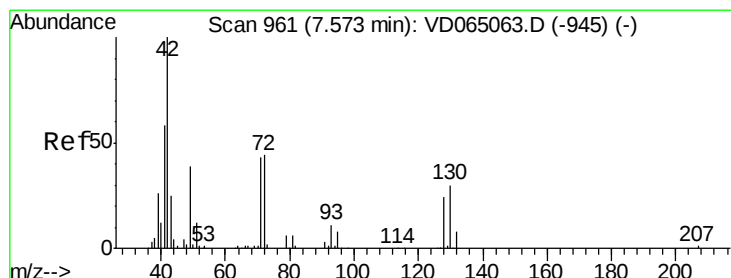
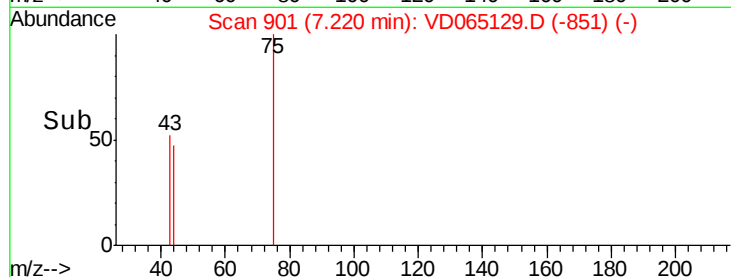
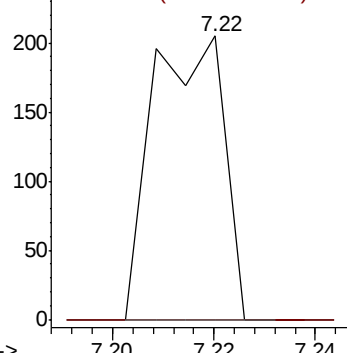
Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 3.778 ug/l

RT: 7.58 min Scan# 963

Delta R.T. 0.01 min

Lab File: VD065129.D

Acq: 10 Feb 2020 13:24

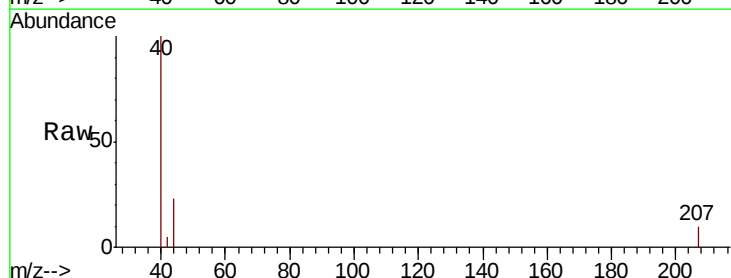
Tgt Ion: 42 Resp: 67

Ion Ratio Lower Upper

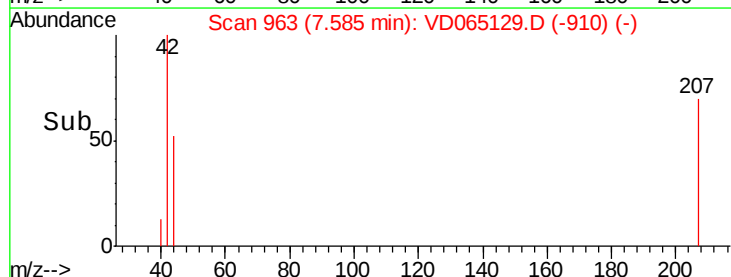
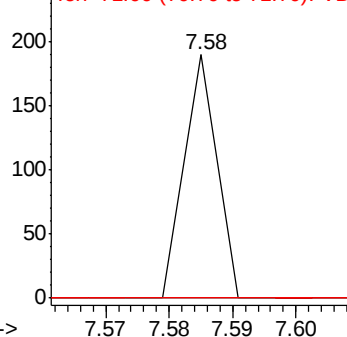
42 100

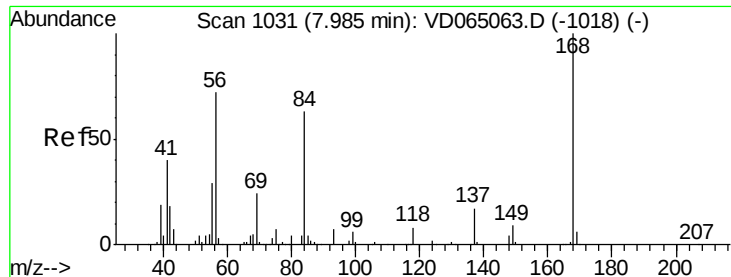
72 0.0 34.2 51.4#

71 0.0 31.8 47.6#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

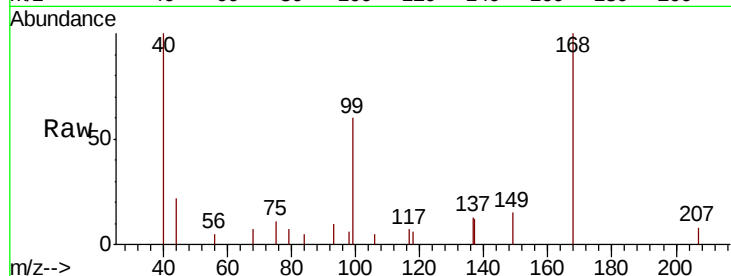




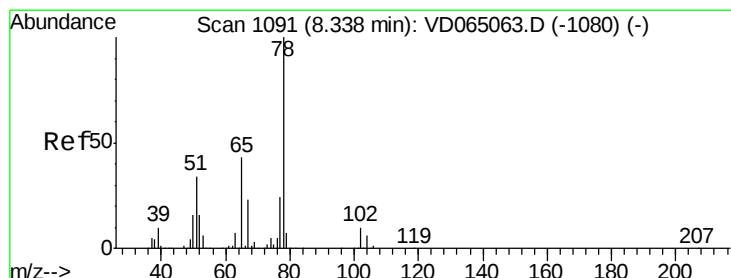
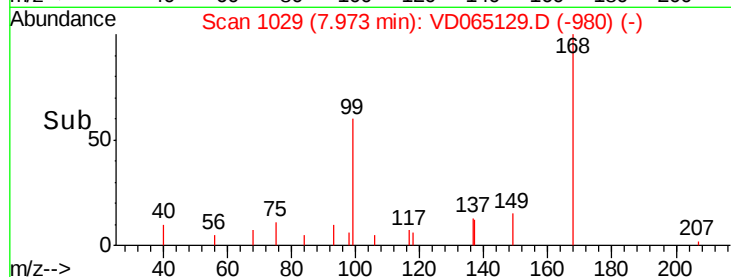
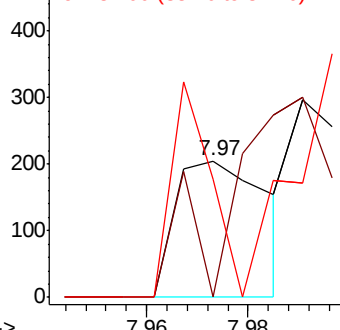
#31
Cvclohexane
Concen: 1.314 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD065129.D
Acq: 10 Feb 2020 13:24

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 257
Ion Ratio Lower Upper
56 100
69 0.0 26.6 40.0#
84 86.8 70.6 106.0

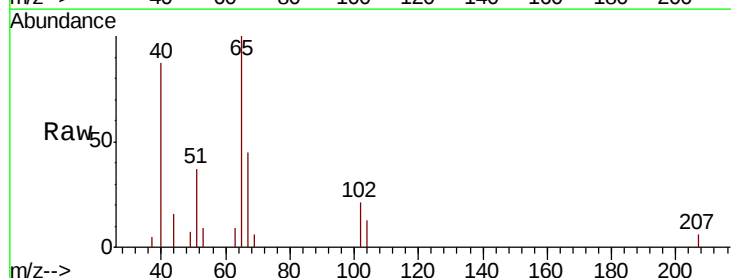


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

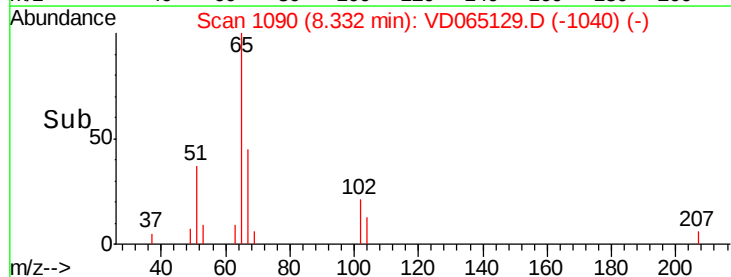
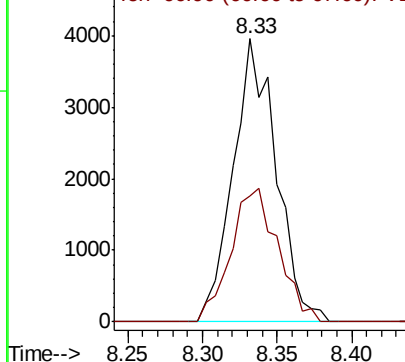


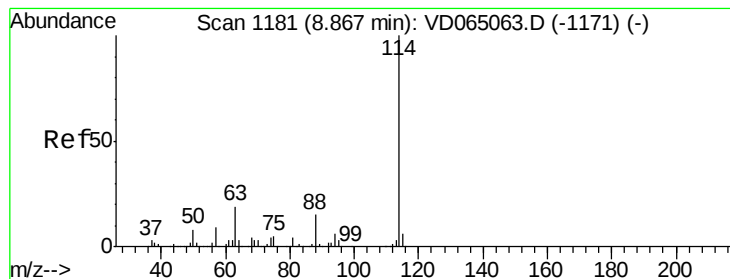
#33
1,2-Dichloroethane-d4
Concen: 80.605 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD065129.D
Acq: 10 Feb 2020 13:24

Tgt Ion: 65 Resp: 7927
Ion Ratio Lower Upper
65 100
67 51.8 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065129.D

Acq: 10 Feb 2020 13:24

Instrument :

MSVOA_D

ClientSampleId :

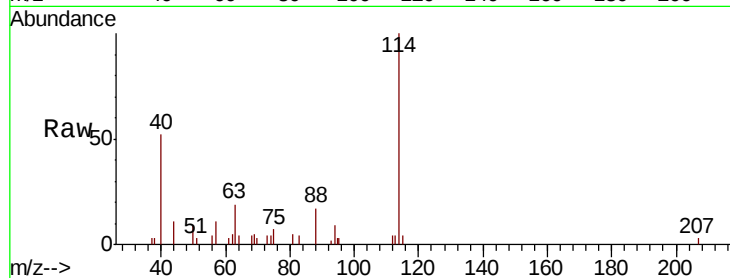
Tot Ion:114 Resp: 17124

Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.8

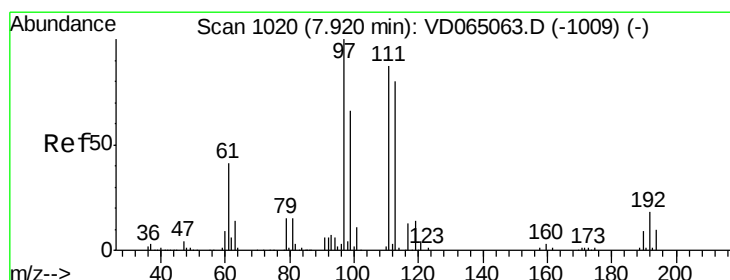
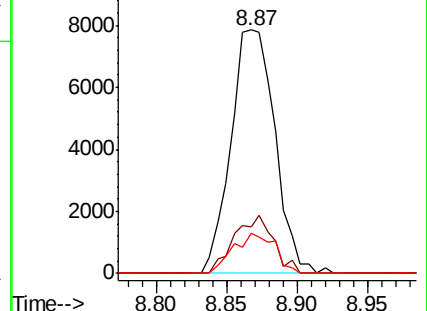
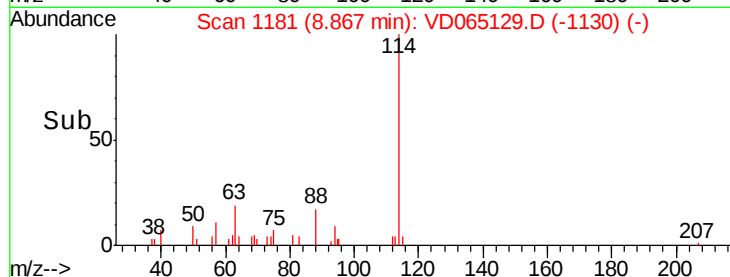
88 16.7 0.0 29.6



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: 68.525 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD065129.D

Acq: 10 Feb 2020 13:24

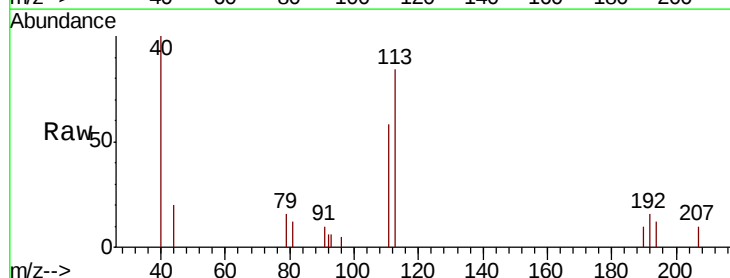
Tgt Ion:113 Resp: 6547

Ion Ratio Lower Upper

113 100

111 99.4 83.1 124.7

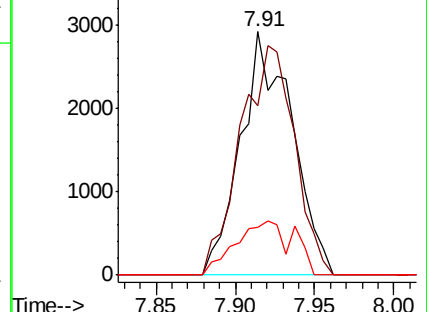
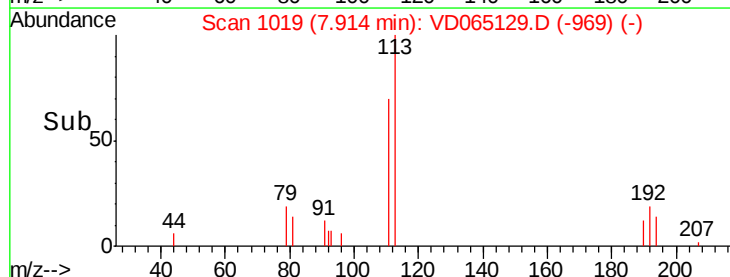
192 24.8 18.1 27.1

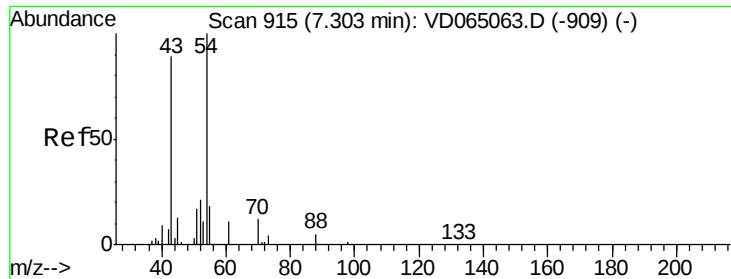


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

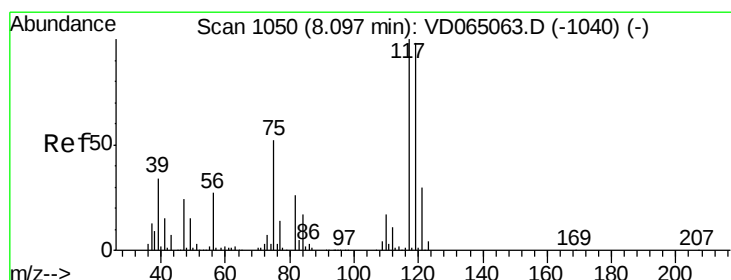
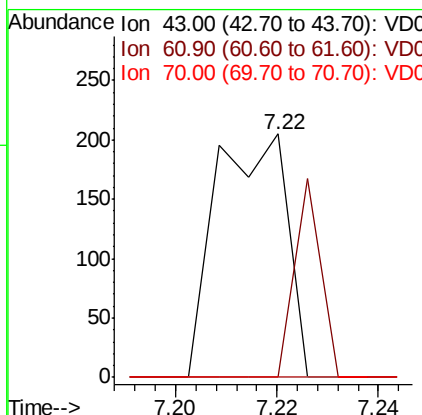
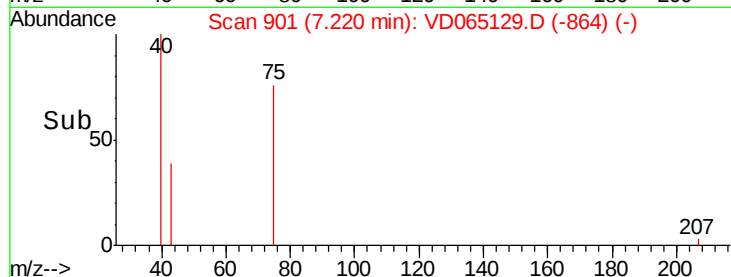
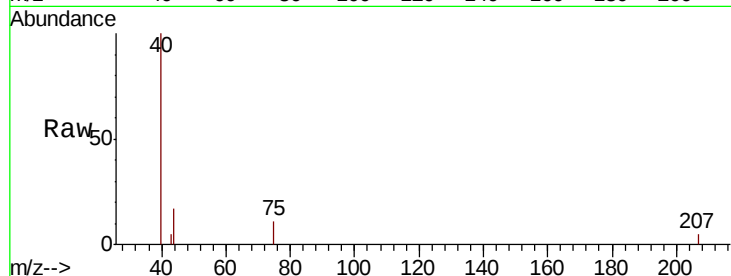




#37
Ethyl Acetate
Concen: 3.090 ug/l
RT: 7.22 min Scan# 901
Delta R.T. -0.08 min
Lab File: VD065129.D
Acq: 10 Feb 2020 13:24

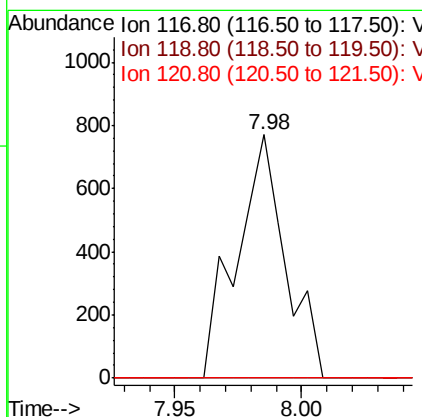
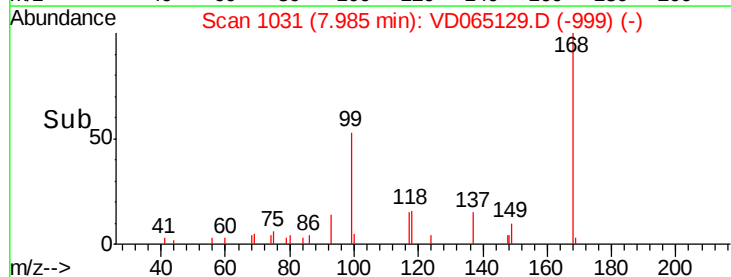
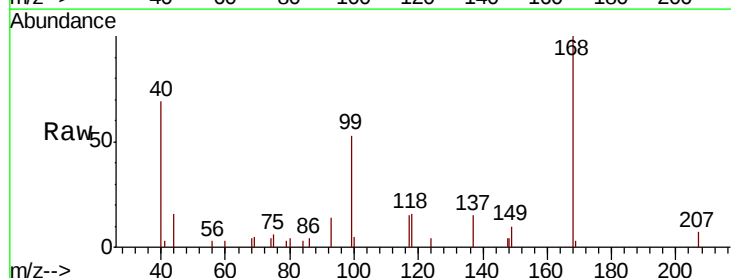
Instrument :
MSVOA_D
ClientSampled :

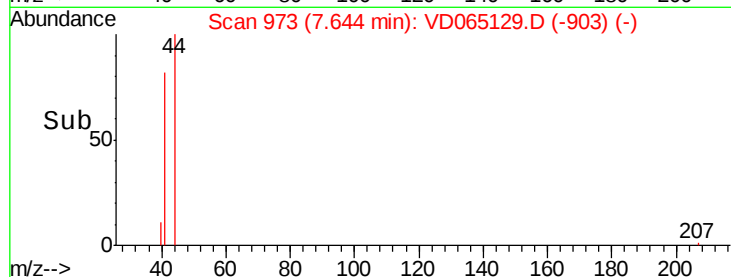
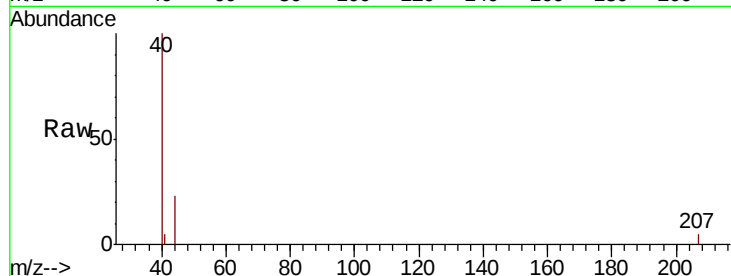
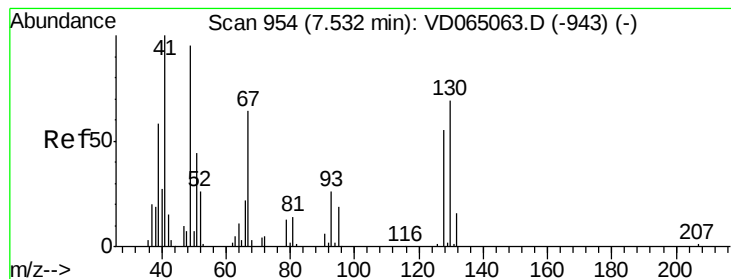
Tot Ion: 43 Resp: 201
Ion Ratio Lower Upper
43 100
61 29.4 11.0 16.4#
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: 6.389 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD065129.D
Acq: 10 Feb 2020 13:24

Tgt Ion: 117 Resp: 1039
Ion Ratio Lower Upper
117 100
119 0.0 78.5 117.7#
121 0.0 23.8 35.6#





#41

Methacrylonitrile

Concen: 1.786 ug/l

RT: 7.64 min Scan# 973

Delta R.T. 0.11 min

Lab File: VD065129.D

Acq: 10 Feb 2020 13:24

Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 41 Resp: 64

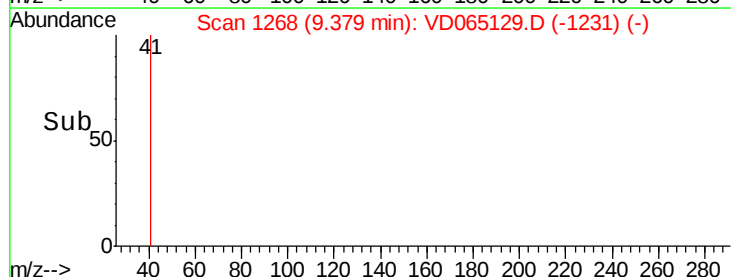
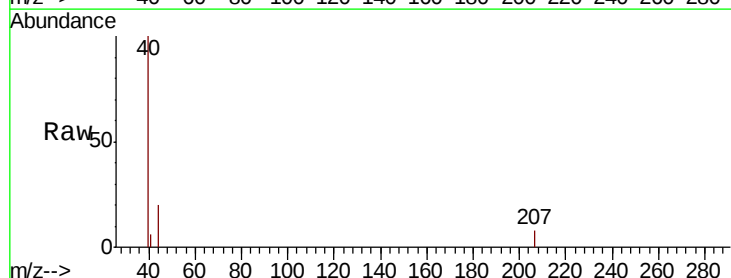
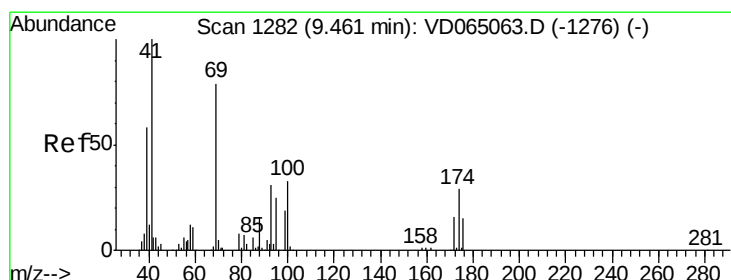
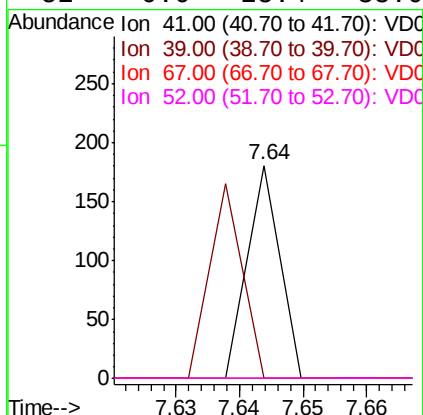
Ion Ratio Lower Upper

41 100

39 90.6 55.4 83.0#

67 0.0 59.0 88.6#

52 0.0 25.4 38.0#



#48

Methyl methacrylate

Concen: 1.369 ug/l

RT: 9.38 min Scan# 1268

Delta R.T. -0.08 min

Lab File: VD065129.D

Acq: 10 Feb 2020 13:24

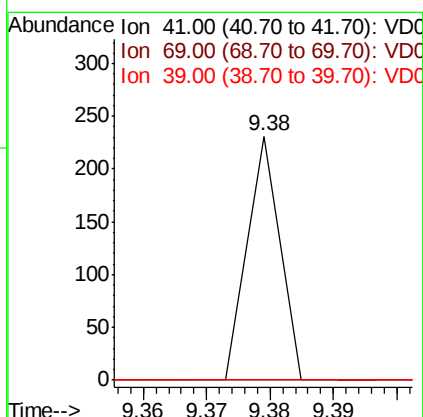
Tgt Ion: 41 Resp: 82

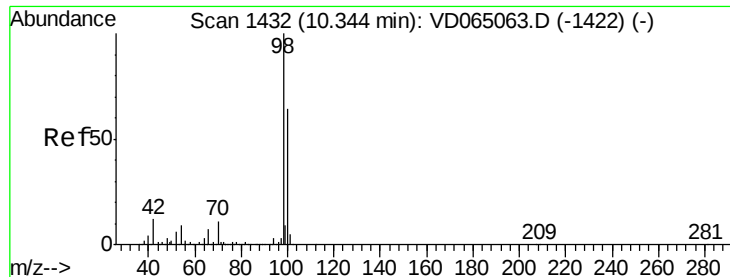
Ion Ratio Lower Upper

41 100

69 0.0 67.5 101.3#

39 0.0 47.0 70.4#

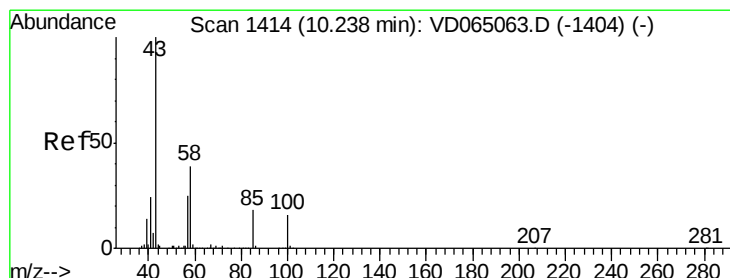
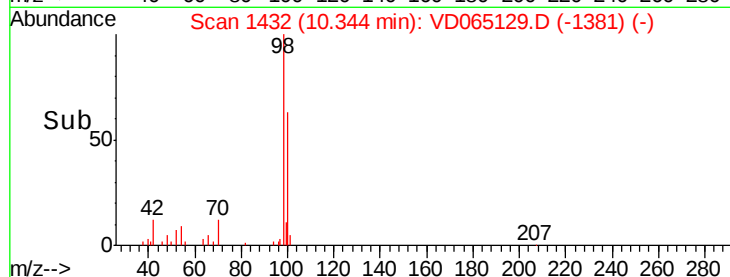
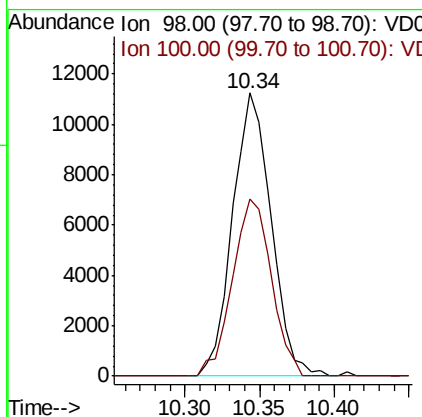
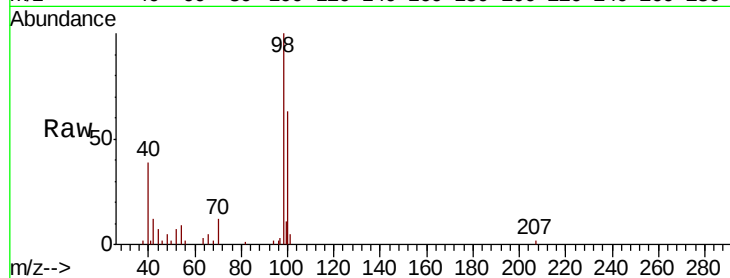




#50
Toluene-d8
Concen: 53.079 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065129.D
Acq: 10 Feb 2020 13:24

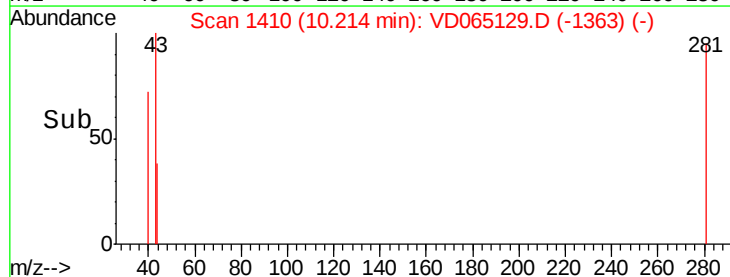
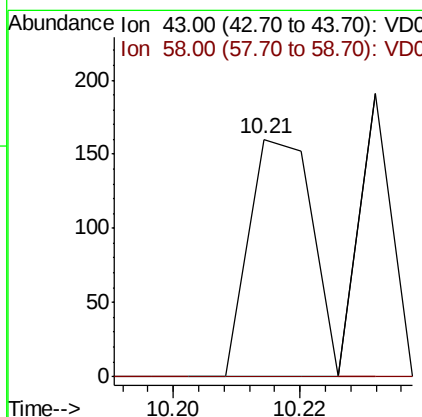
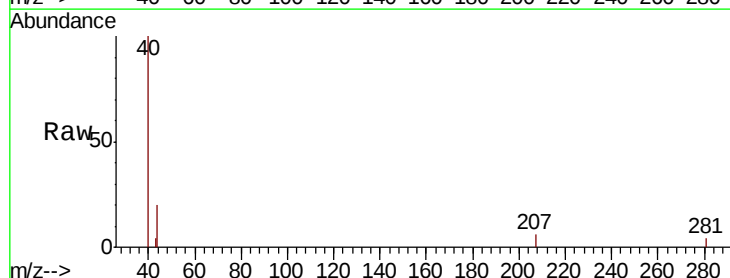
Instrument :
MSVOA_D
ClientSampleId :

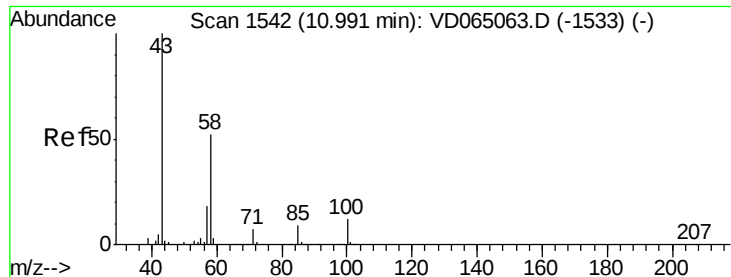
Tot Ion: 98 Resp: 20185
Ion Ratio Lower Upper
98 100
100 63.3 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.796 ug/l
RT: 10.21 min Scan# 1410
Delta R.T. -0.02 min
Lab File: VD065129.D
Acq: 10 Feb 2020 13:24

Tgt Ion: 43 Resp: 110
Ion Ratio Lower Upper
43 100
58 0.0 30.2 45.2#

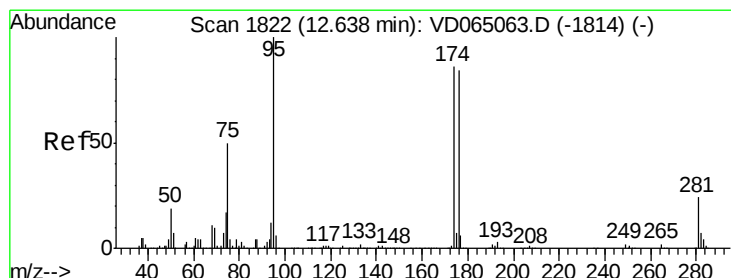
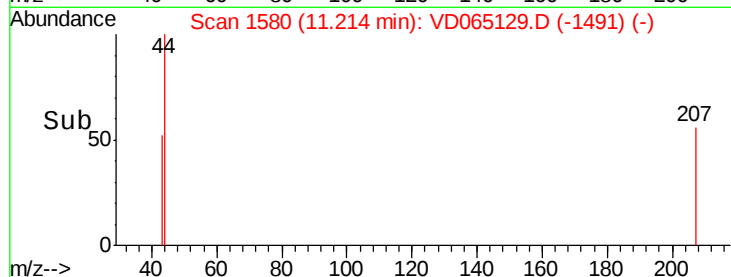
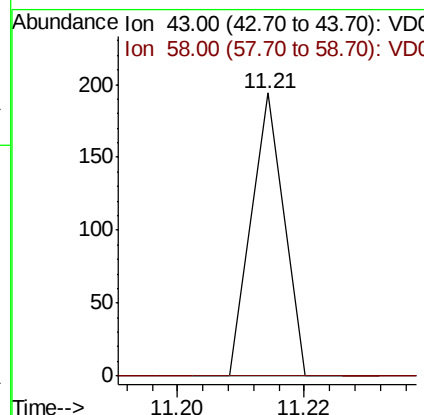
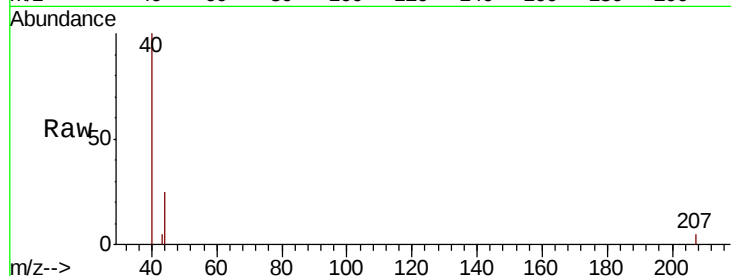




#59
2-Hexanone
Concen: 1.567 ug/l
RT: 11.21 min Scan# 1580
Delta R.T. 0.22 min
Lab File: VD065129.D
Acq: 10 Feb 2020 13:24

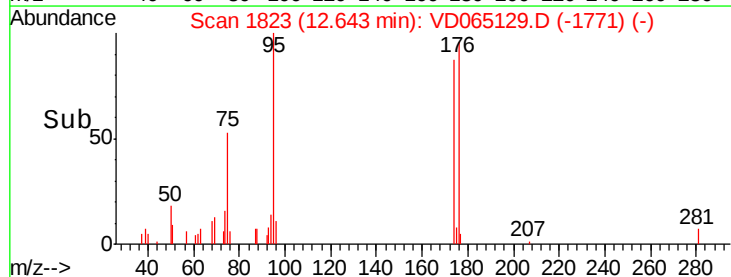
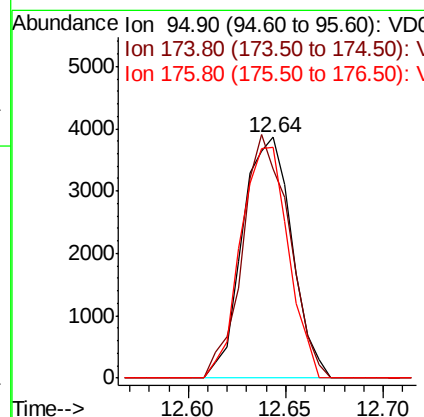
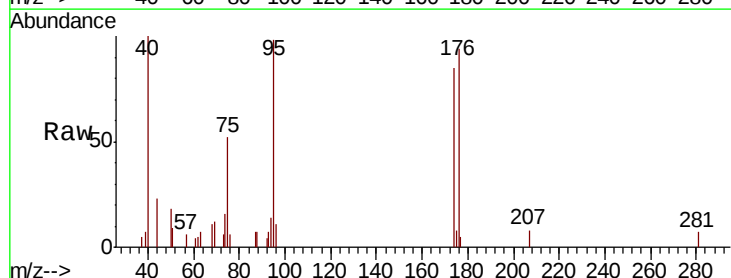
Instrument :
MSVOA_D
ClientSampleId :

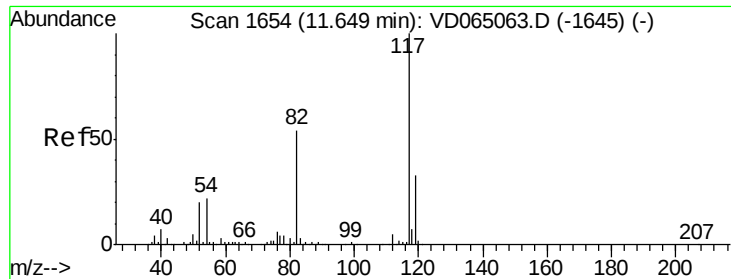
Tot Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
58 0.0 26.2 78.6#



#62
4-Bromofluorobenzene
Concen: 56.176 ug/l
RT: 12.64 min Scan# 1823
Delta R.T. 0.01 min
Lab File: VD065129.D
Acq: 10 Feb 2020 13:24

Tgt Ion: 95 Resp: 6769
Ion Ratio Lower Upper
95 100
174 96.3 0.0 180.0
176 92.7 0.0 173.2

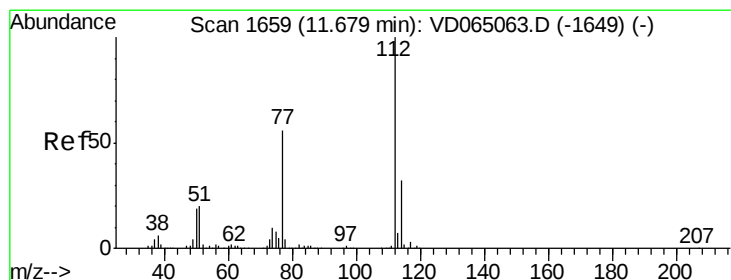
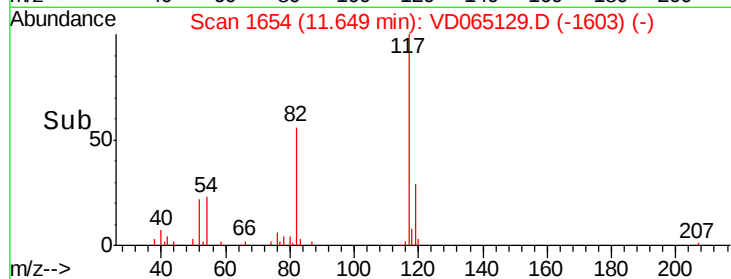
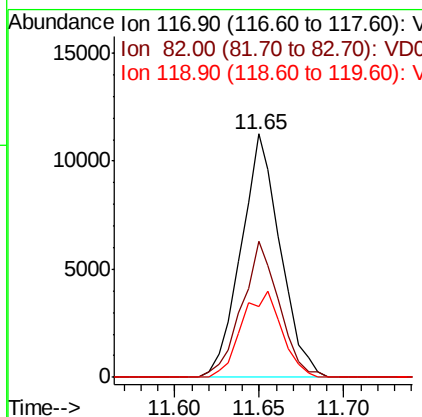
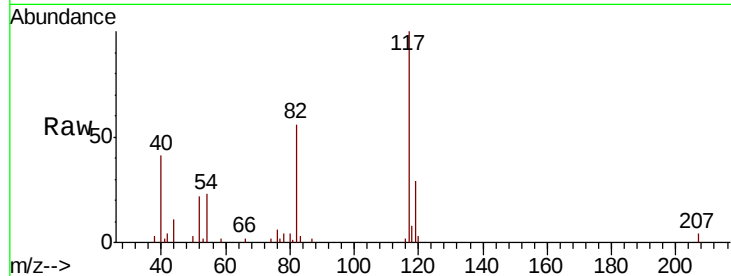




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065129.D
Acq: 10 Feb 2020 13:24

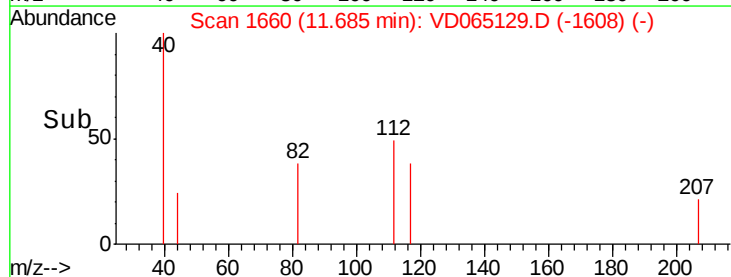
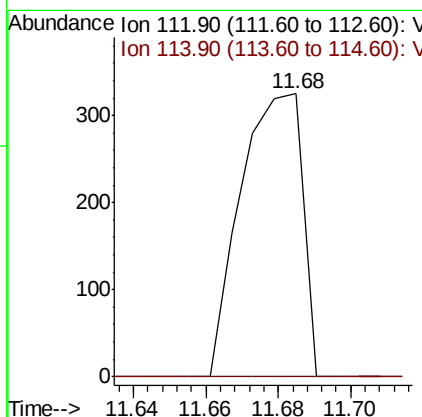
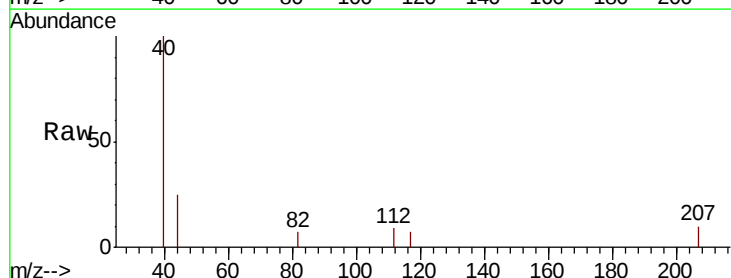
Instrument :
MSVOA_D
ClientSampleId :

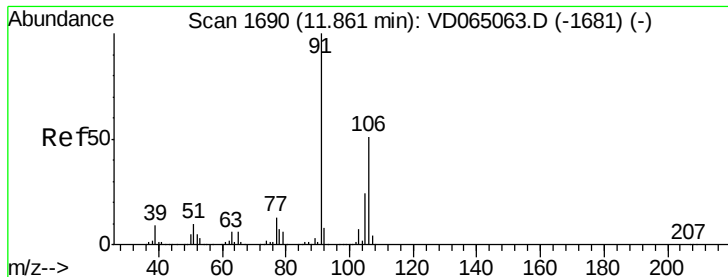
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.7	43.1	64.7
119	29.2	26.0	39.0



#65
Chlorobenzene
Concen: 1.096 ug/l
RT: 11.68 min Scan# 1660
Delta R.T. 0.01 min
Lab File: VD065129.D
Acq: 10 Feb 2020 13:24

Tgt Ion	Ratio	Lower	Upper
112	100		
114	0.0	25.4	38.0#

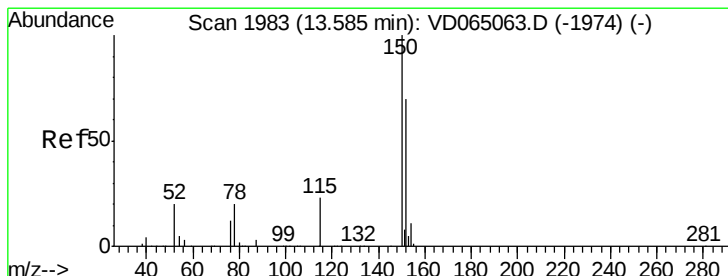
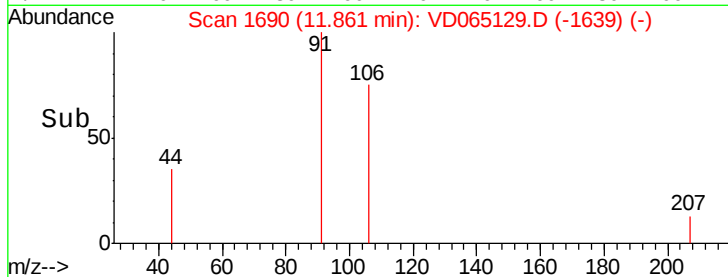
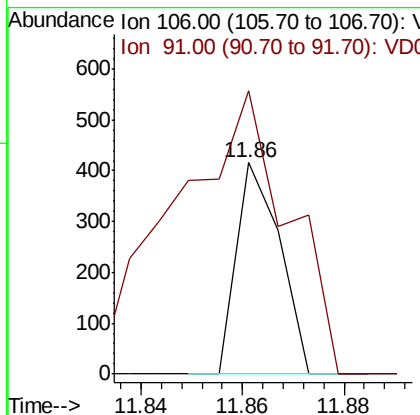
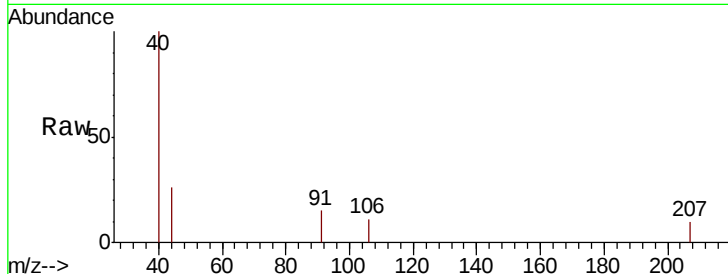




#68
m/p-Xvlenes
Concen: 1.010 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VD065129.D
Acq: 10 Feb 2020 13:24

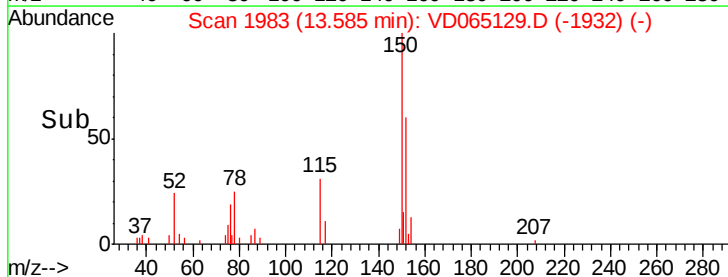
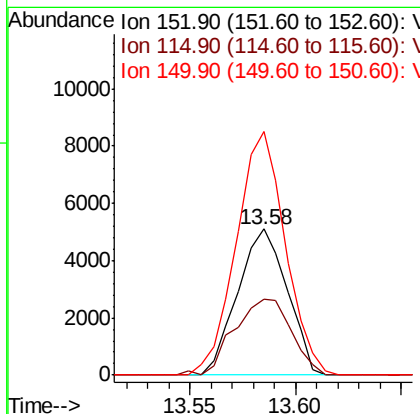
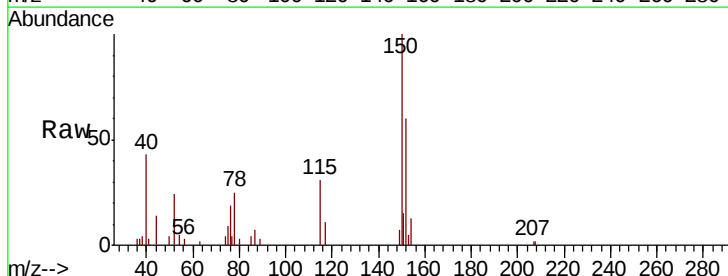
Instrument :
MSVOA_D
ClientSampled :

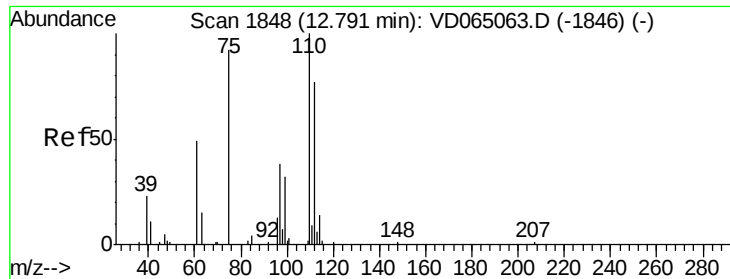
Tot Ion:106 Resp: 246
Ion Ratio Lower Upper
106 100
91 352.0 158.9 238.3#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065129.D
Acq: 10 Feb 2020 13:24

Tgt Ion:152 Resp: 8320
Ion Ratio Lower Upper
152 100
115 60.4 27.5 82.4
150 164.7 0.0 343.2





#76

1,2,3-Trichloropropane

Concen: 59.183 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065129.D

Acq: 10 Feb 2020 13:24

Instrument :

MSVOA_D

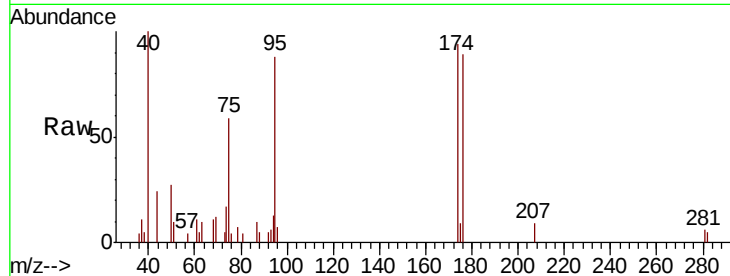
ClientSampleId :

Tot Ion: 75 Resp: 3728

Ion Ratio Lower Upper

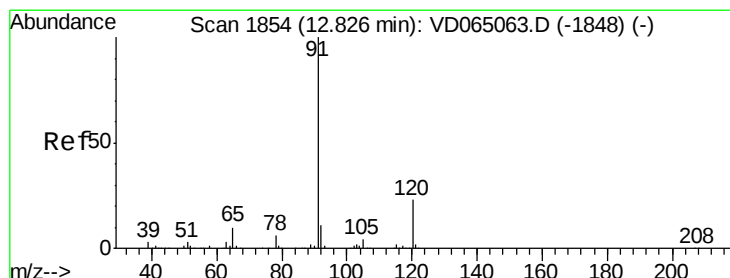
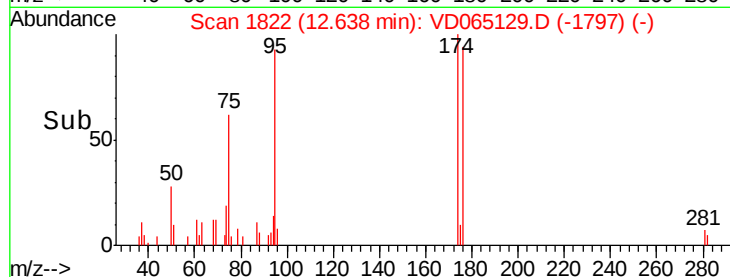
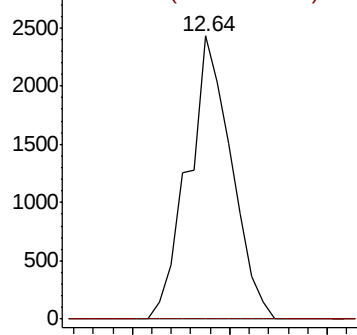
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#78

n-propylbenzene

Concen: 1.048 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD065129.D

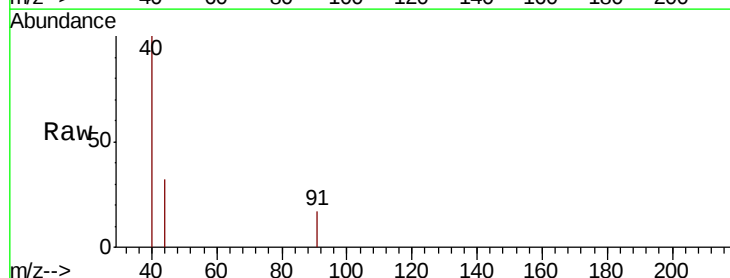
Acq: 10 Feb 2020 13:24

Tgt Ion: 91 Resp: 701

Ion Ratio Lower Upper

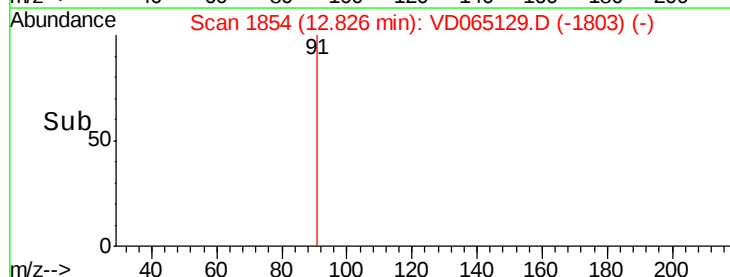
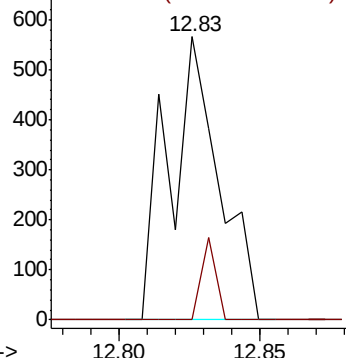
91 100

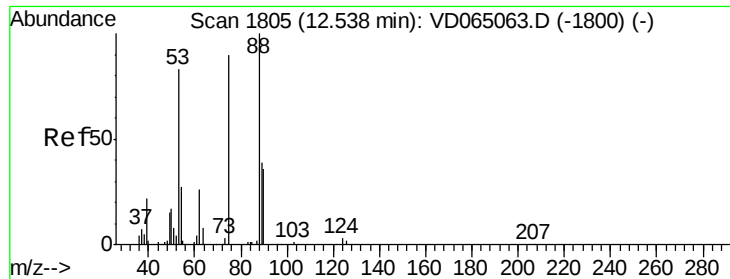
120 8.4 11.8 35.3#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): VDC

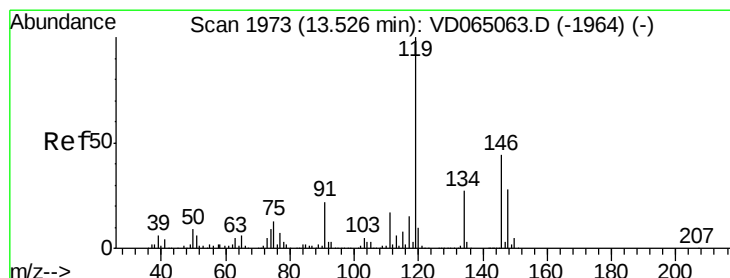
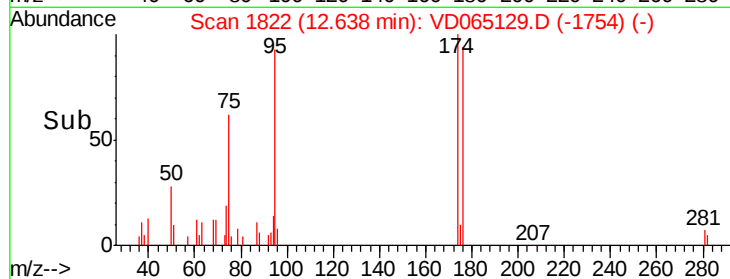
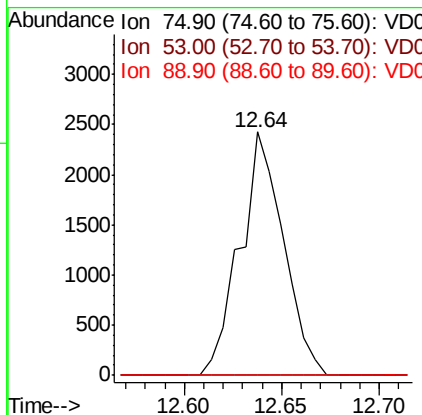
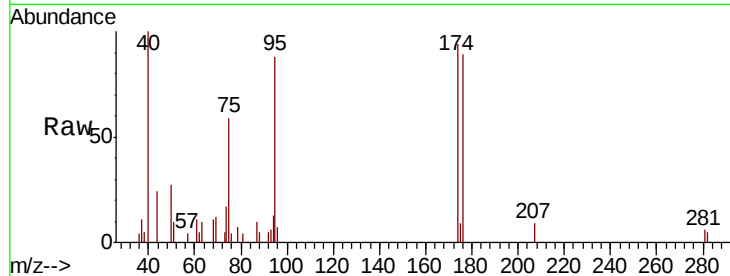




#81
trans-1,4-Dichloro-2-butene
Concen: 118.361 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.10 min
Lab File: VD065129.D
Acq: 10 Feb 2020 13:24

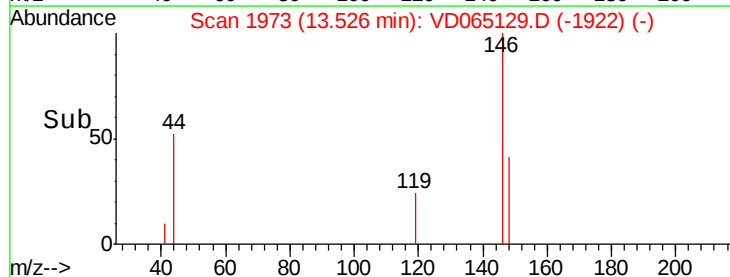
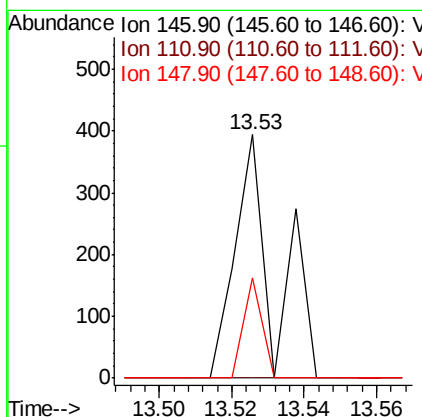
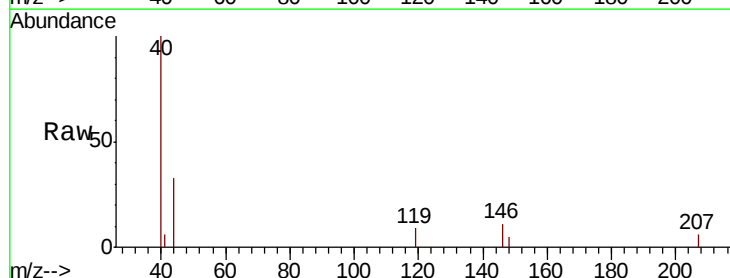
Instrument :
MSVOA_D
ClientSampleId :

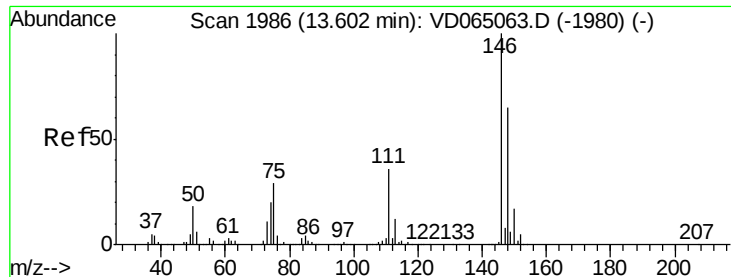
Tot Ion: 75 Resp: 3728
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 37.0 55.4#



#87
1,3-Dichlorobenzene
Concen: 1.157 ug/l
RT: 13.53 min Scan# 1973
Delta R.T. -0.00 min
Lab File: VD065129.D
Acq: 10 Feb 2020 13:24

Tgt Ion: 146 Resp: 298
Ion Ratio Lower Upper
146 100
111 0.0 19.4 58.4#
148 19.1 32.3 96.8#





#88

1,4-Dichlorobenzene

Concen: 1.338 ug/l

RT: 13.60 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VD065129.D

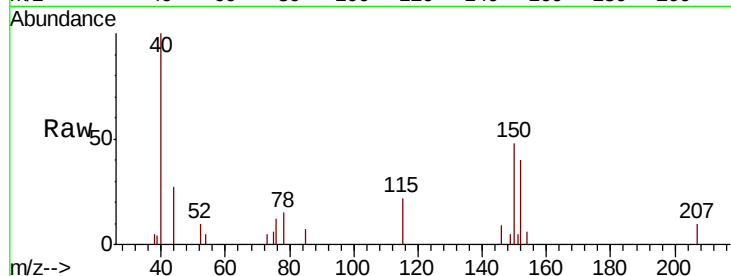
Acq: 10 Feb 2020 13:24

Instrument :

MSVOA_D

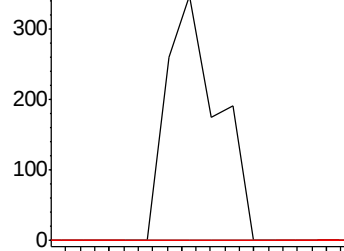
ClientSampleId :

Tot Ion:	146	Resp:	343
Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.5	55.5#
148	0.0	32.7	98.1#

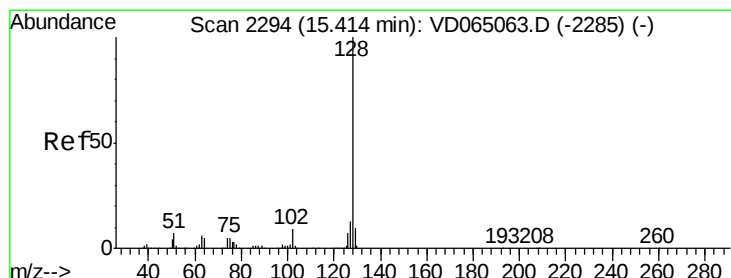
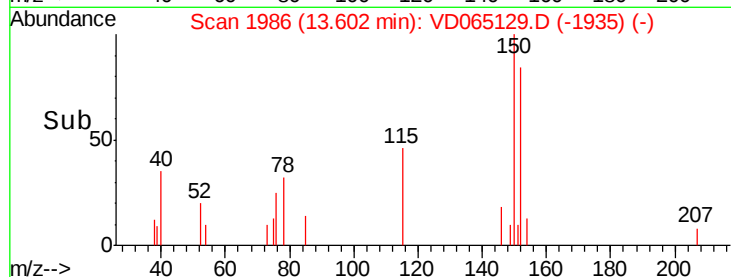


Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

13.60



Time-->



#95

Naphthalene

Concen: 1.873 ug/l

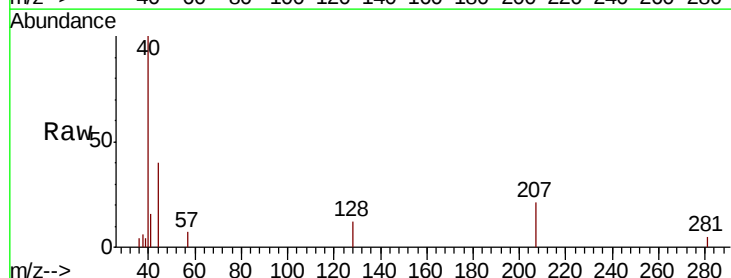
RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD065129.D

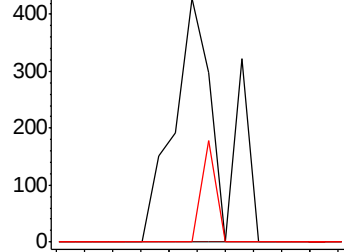
Acq: 10 Feb 2020 13:24

Tgt Ion:	128	Resp:	491
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	12.8	8.7	13.1



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

15.41



Time-->

