

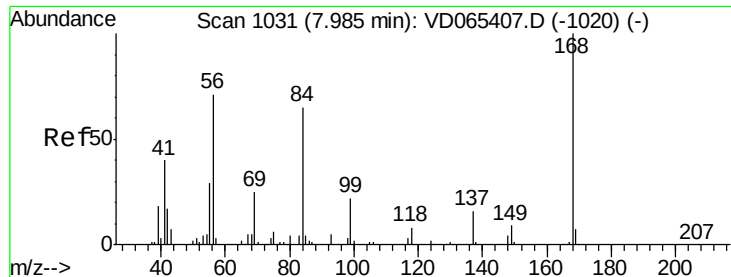
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030520\
 Data File : VD065437.D
 Acq On : 05 Mar 2020 18:03
 Operator : VA/SY
 Sample : L1364-03
 Misc : 6.34G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 06 03:50:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 01:22:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	488225	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	829809	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	743930	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	297565	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	255880	61.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	122.20%	
35) Dibromofluoromethane	7.92	113	269011	52.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.84%	
50) Toluene-d8	10.34	98	1006947	51.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.30%	
62) 4-Bromofluorobenzene	12.64	95	279127	45.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.86%	
Target Compounds						
5) Bromomethane	2.79	94	243	Below Cal		91
20) Methylene Chloride	4.97	84	5728	Below Cal	#	89
31) Cyclohexane	7.99	56	9447	1.136	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	35699	4.488	ug/l #	49
38) Carbon Tetrachloride	7.98	117	45324	5.495	ug/l #	19
51) 4-Methyl-2-Pentanone	10.35	43	3844	1.346	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	139101	59.242	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	139101	125.017	ug/l #	14
95) Naphthalene	15.41	128	958	4.498	ug/l #	76

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065437.D

Acq: 05 Mar 2020 18:03

Instrument :

MSVOA_D

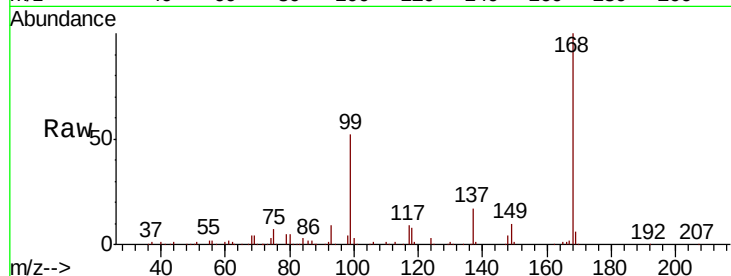
ClientSampleId :

Tot Ion:168 Resp: 488225

Ion Ratio Lower Upper

168 100

99 52.4 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

250000

200000

150000

100000

50000

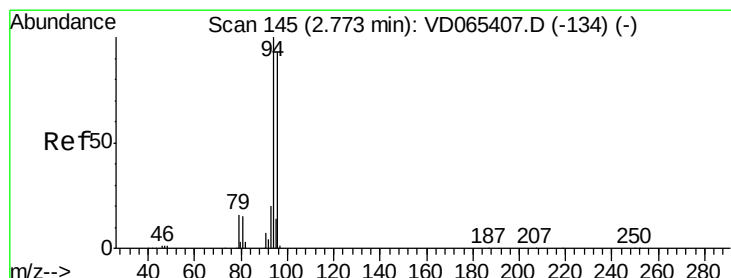
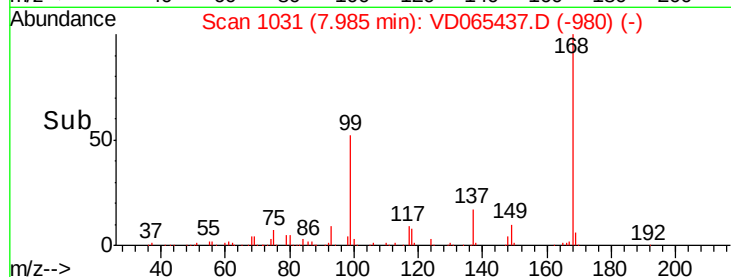
0

7.99

8.00

8.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD065437.D

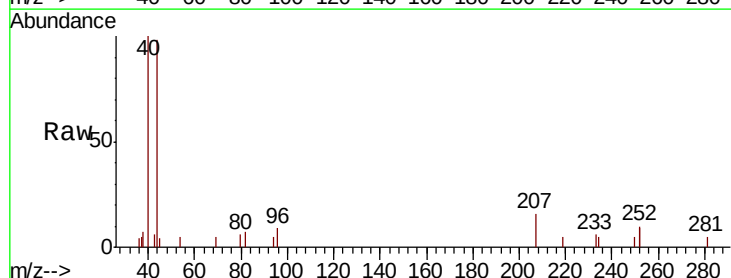
Acq: 05 Mar 2020 18:03

Tgt Ion: 94 Resp: 243

Ion Ratio Lower Upper

94 100

96 84.5 74.4 111.6



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

500

400

300

200

100

0

2.74

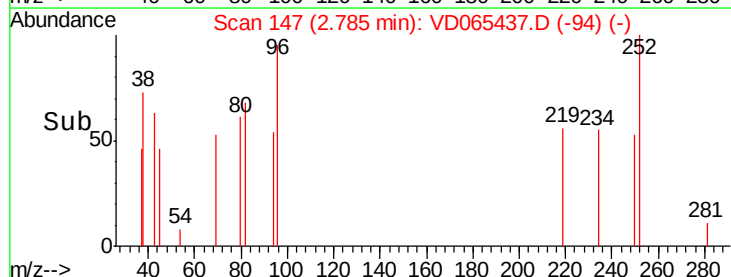
2.76

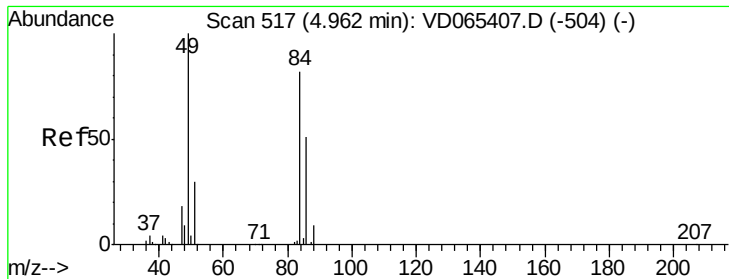
2.78

2.80

2.82

Time-->





#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD065437.D

Acq: 05 Mar 2020 18:03

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 84 Resp: 5728

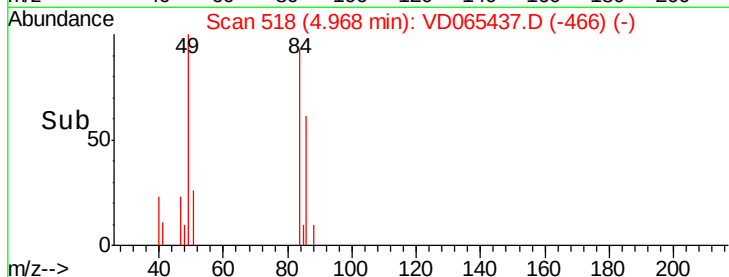
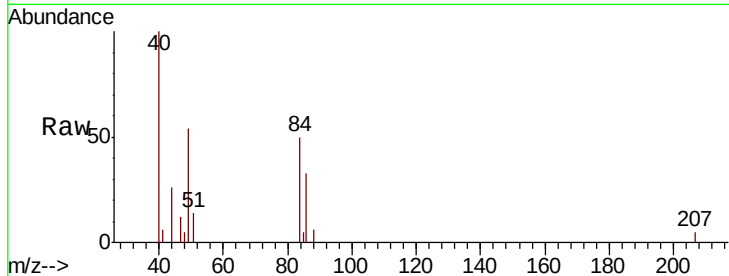
Ion Ratio Lower Upper

84 100

49 107.5 97.7 146.5

51 28.3 28.8 43.2#

86 66.1 49.5 74.3

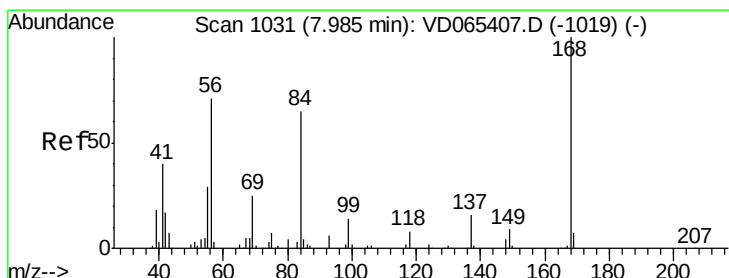
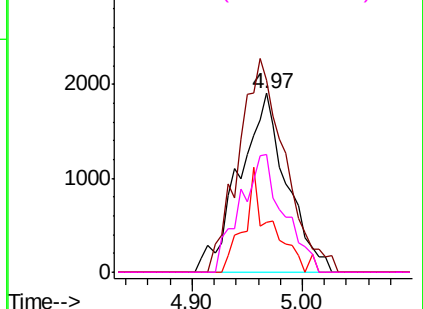


Abundance Ion 83.90 (83.60 to 84.60): VDC

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



#31

Cyclohexane

Concen: 1.136 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065437.D

Acq: 05 Mar 2020 18:03

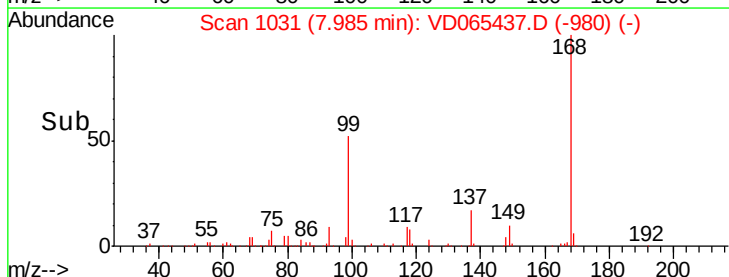
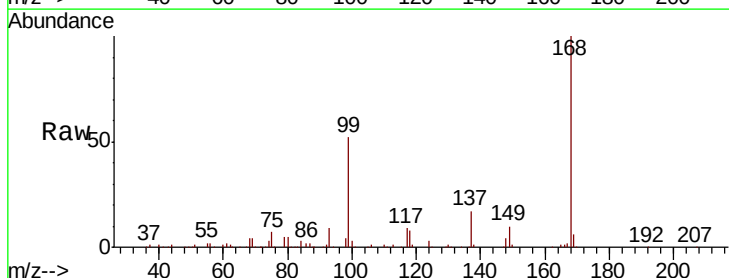
Tgt Ion: 56 Resp: 9447

Ion Ratio Lower Upper

56 100

69 180.9 28.3 42.5#

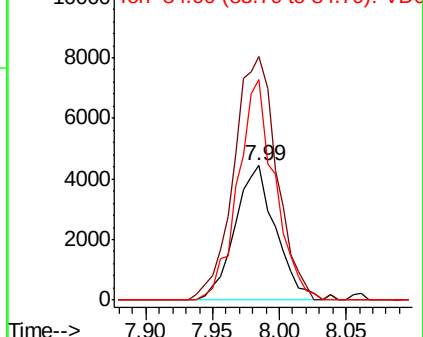
84 163.9 73.1 109.7#

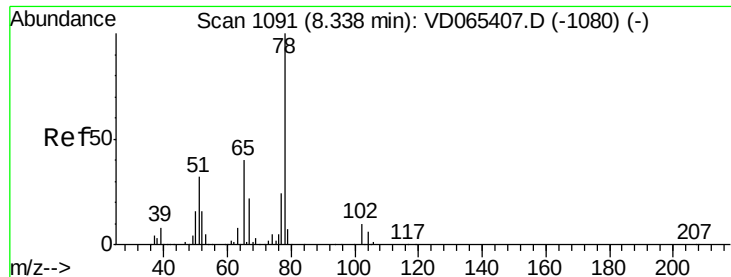


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 61.098 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065437.D

Acq: 05 Mar 2020 18:03

Instrument :

MSVOA_D

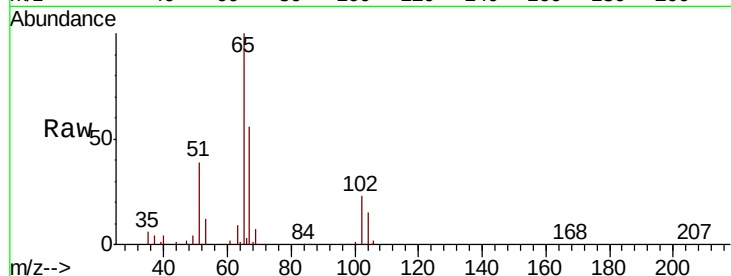
ClientSampleId :

Tot Ion: 65 Resp: 255880

Ion Ratio Lower Upper

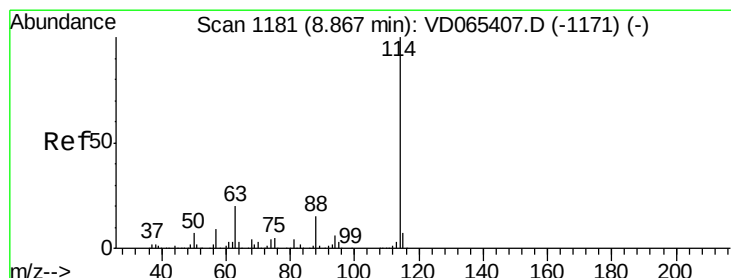
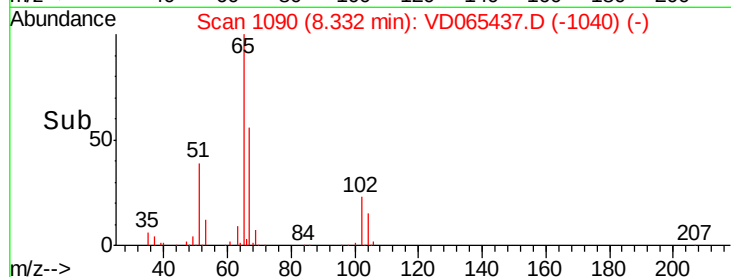
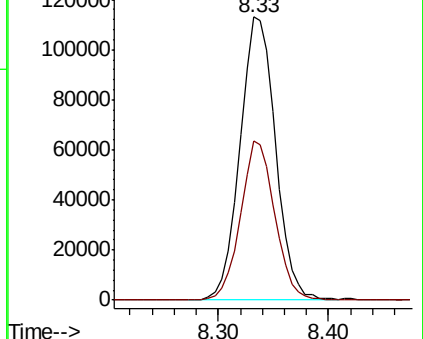
65 100

67 54.1 0.0 108.0



Abundance Ion 64.90 (64.60 to 65.60): VD065437.D (-1040) (-)

Ion 66.90 (66.60 to 67.60): VD065437.D (-1040) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065437.D

Acq: 05 Mar 2020 18:03

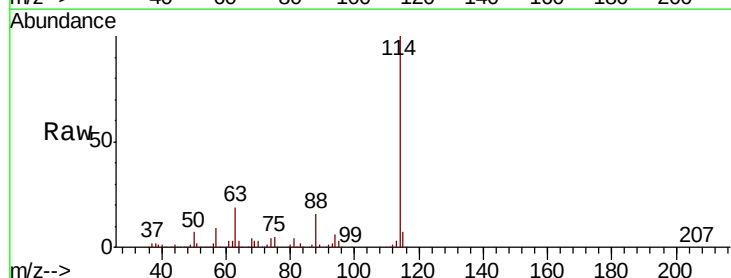
Tgt Ion: 114 Resp: 829809

Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

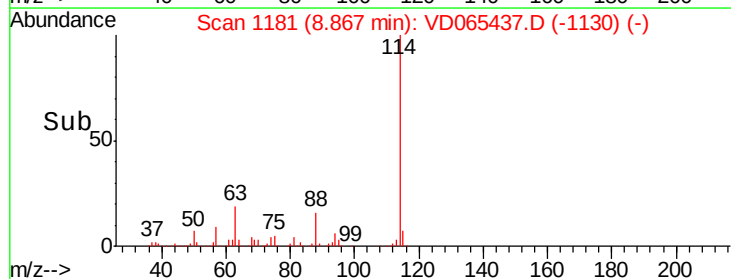
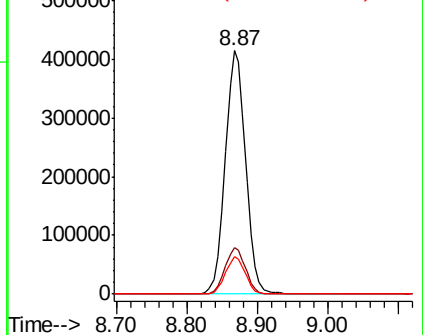
88 15.5 0.0 30.4

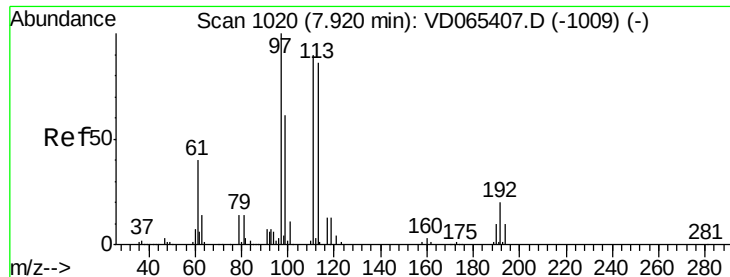


Abundance Ion 113.90 (113.60 to 114.60): VD065437.D (-1130) (-)

Ion 63.00 (62.70 to 63.70): VD065437.D (-1130) (-)

Ion 87.90 (87.60 to 88.60): VD065437.D (-1130) (-)

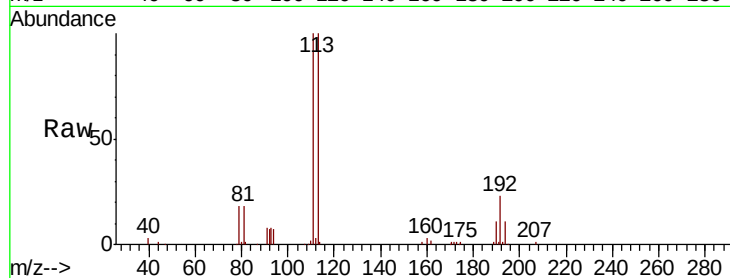




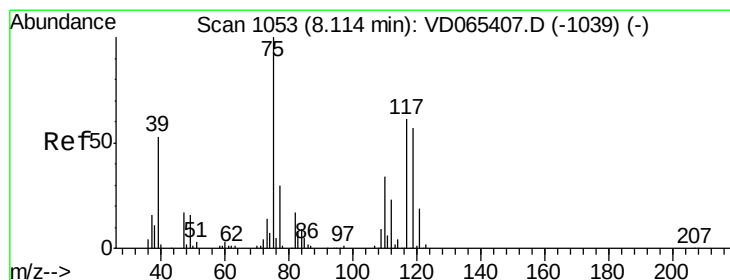
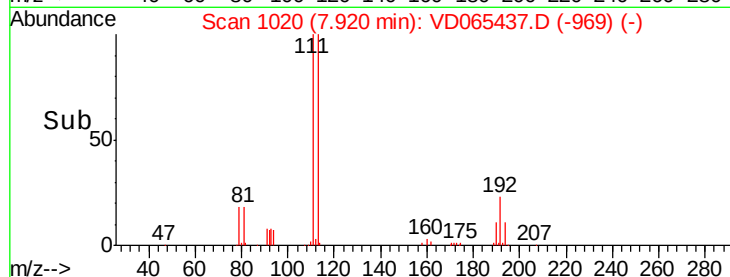
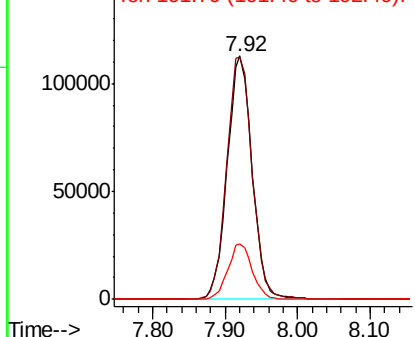
#35
Dibromofluoromethane
Concen: 52.423 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD065437.D
Acq: 05 Mar 2020 18:03

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.1	123.1
192	22.4	17.2	25.8

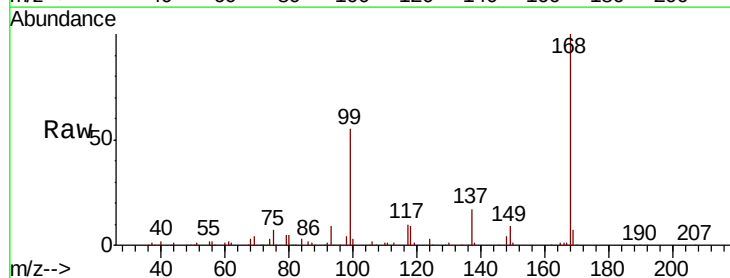


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

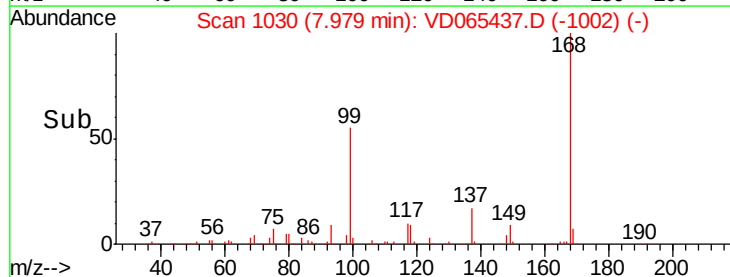
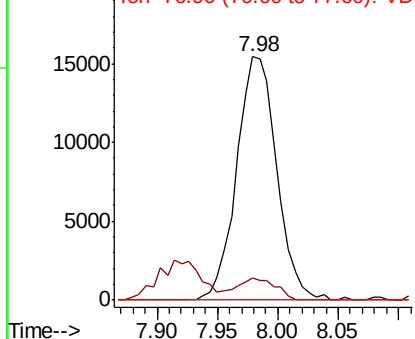


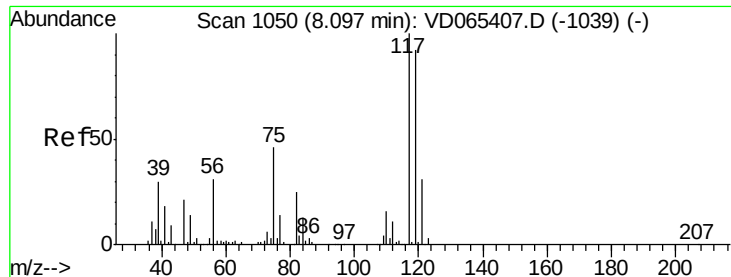
#36
1,1-Dichloropropene
Concen: 4.488 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.14 min
Lab File: VD065437.D
Acq: 05 Mar 2020 18:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.1	54.1#
77	0.0	25.2	37.8#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VDC





#38

Carbon Tetrachloride

Concen: 5.495 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD065437.D

Acq: 05 Mar 2020 18:03

Instrument :

MSVOA_D

ClientSampleId :

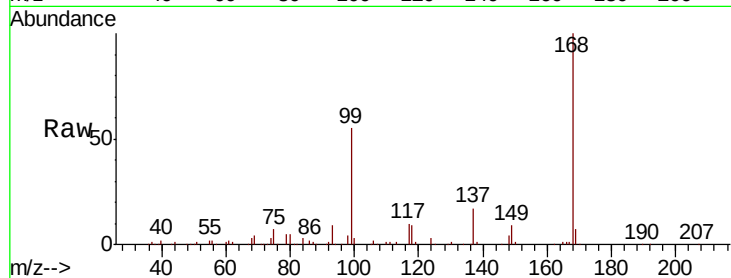
Tot Ion:117 Resp: 45324

Ion Ratio Lower Upper

117 100

119 6.3 73.3 109.9#

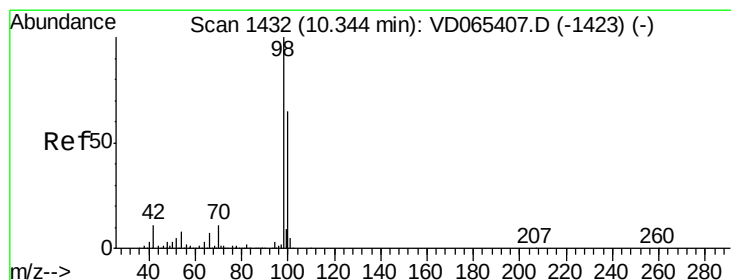
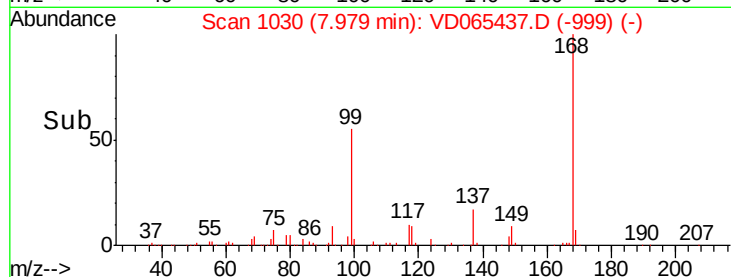
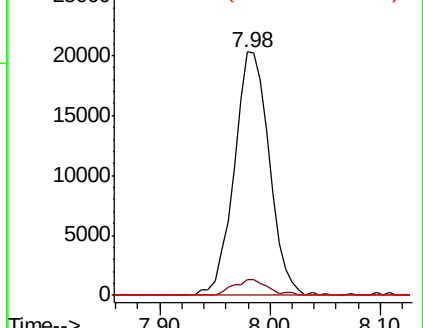
121 0.0 25.0 37.4#



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



#50

Toluene-d8

Concen: 51.149 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065437.D

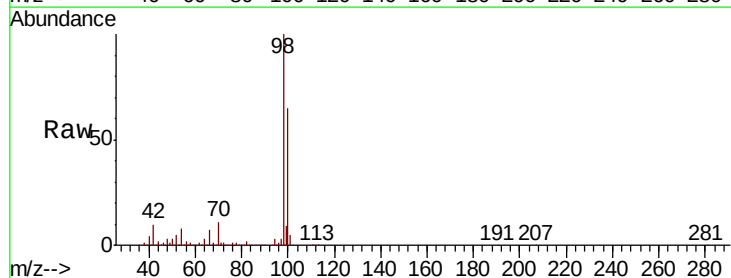
Acq: 05 Mar 2020 18:03

Tgt Ion: 98 Resp: 1006947

Ion Ratio Lower Upper

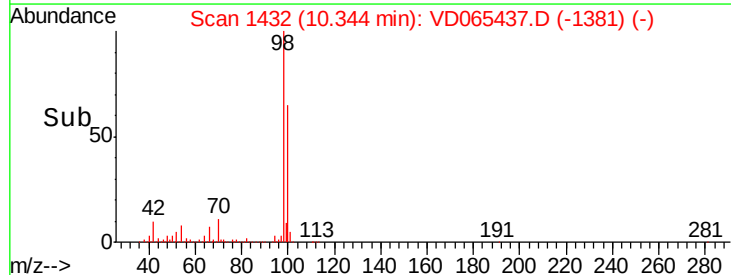
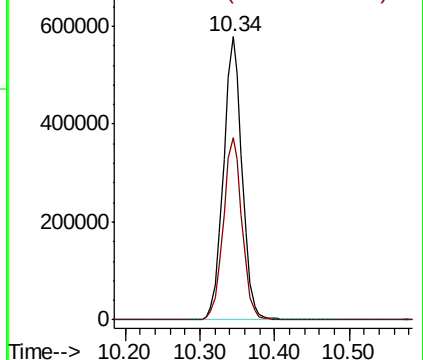
98 100

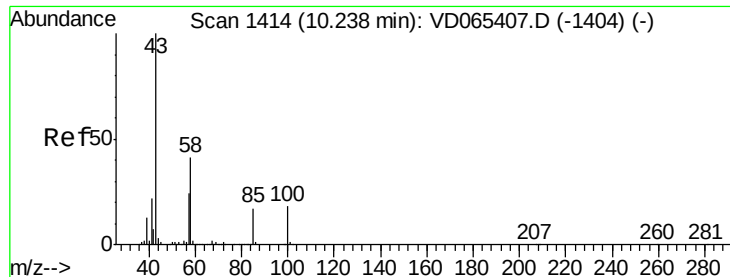
100 64.9 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.346 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.11 min

Lab File: VD065437.D

Acq: 05 Mar 2020 18:03

Instrument :

MSVOA_D

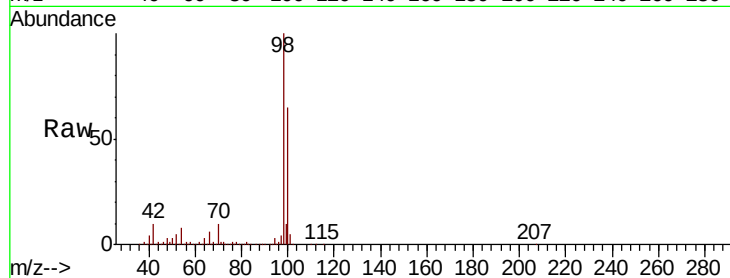
ClientSampled :

Tot Ion: 43 Resp: 3844

Ion Ratio Lower Upper

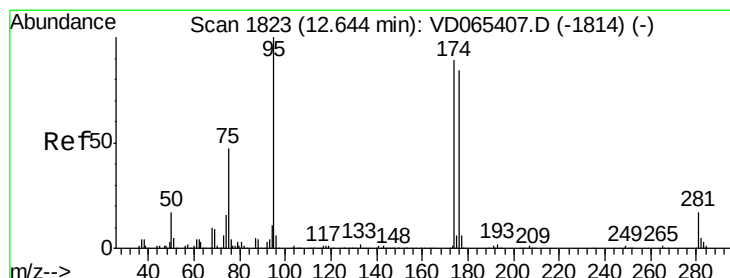
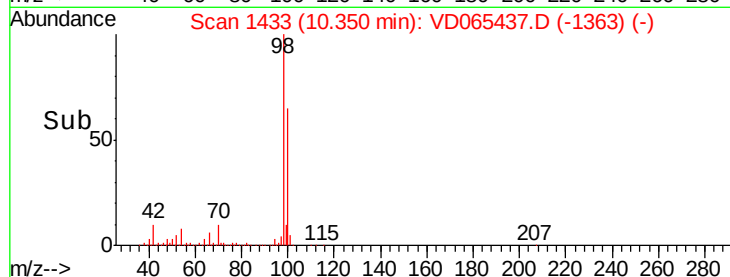
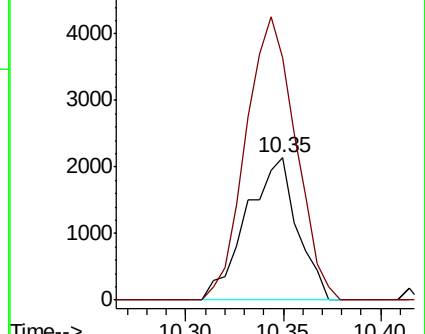
43 100

58 195.4 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 45.928 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.01 min

Lab File: VD065437.D

Acq: 05 Mar 2020 18:03

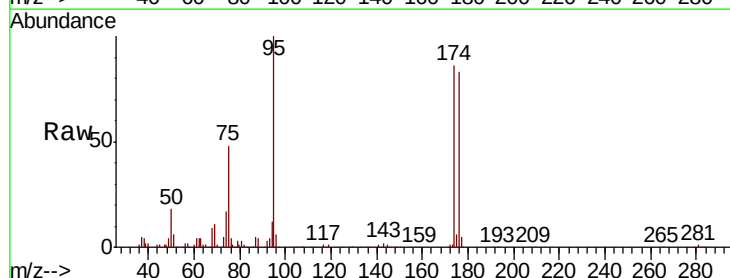
Tgt Ion: 95 Resp: 279127

Ion Ratio Lower Upper

95 100

174 91.2 0.0 176.8

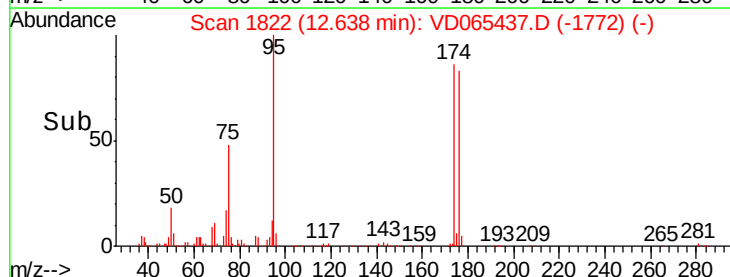
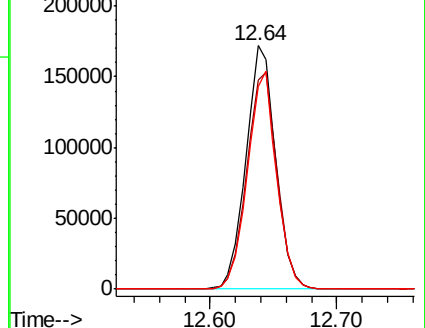
176 87.4 0.0 171.4

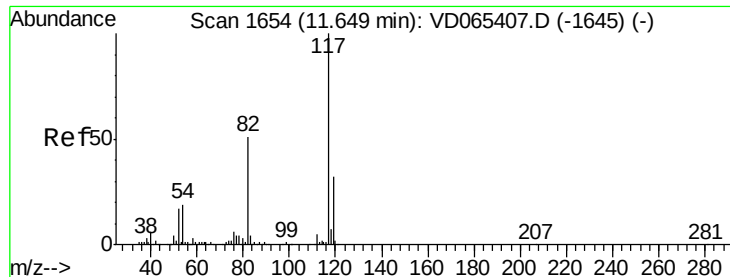


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

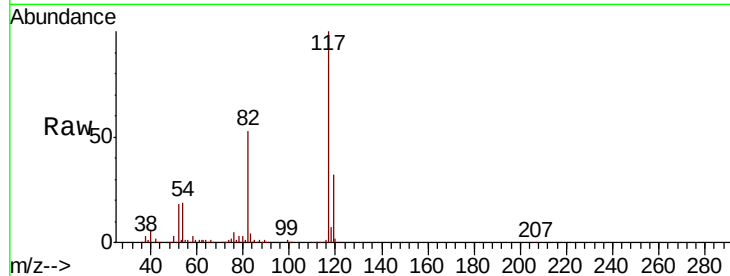




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065437.D
Acq: 05 Mar 2020 18:03

Instrument :
MSVOA_D
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	40.6	60.8
119	32.0	25.4	38.2

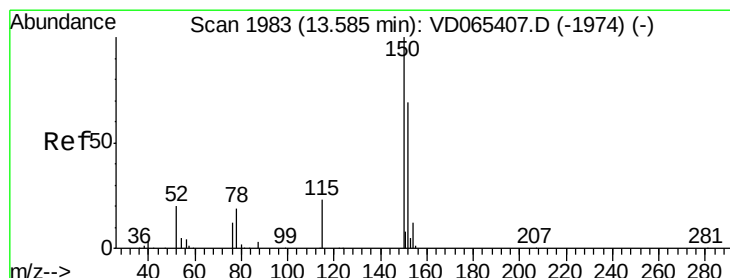
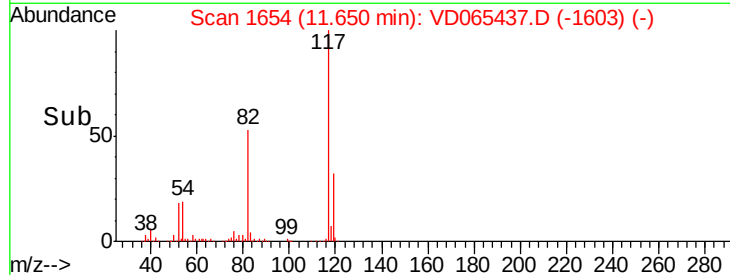
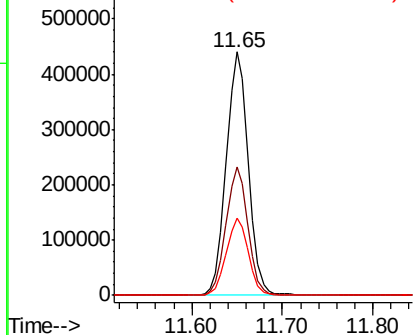


Abundance

Ion 116.90 (116.60 to 117.60): V

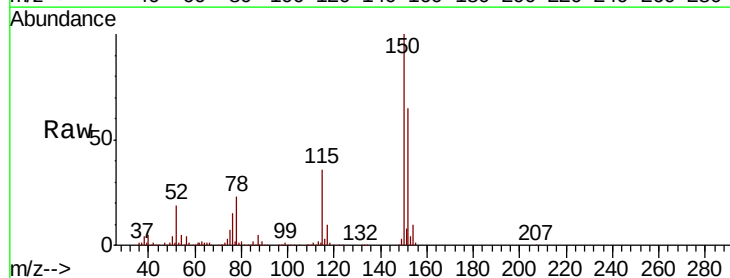
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD065437.D
Acq: 05 Mar 2020 18:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.1	27.6	82.8
150	156.2	0.0	345.0

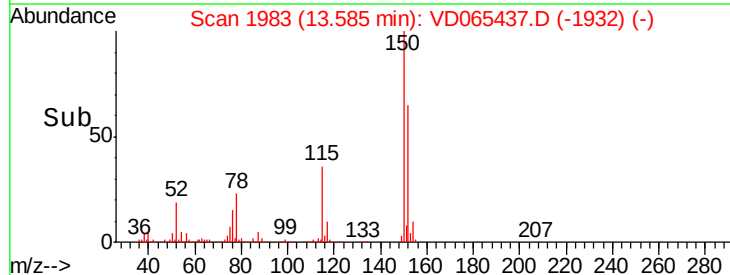
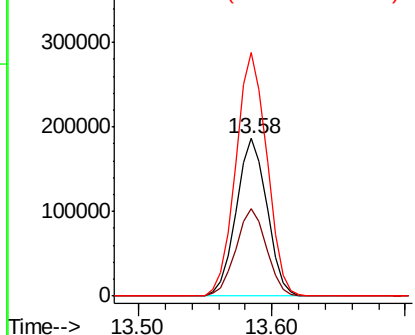


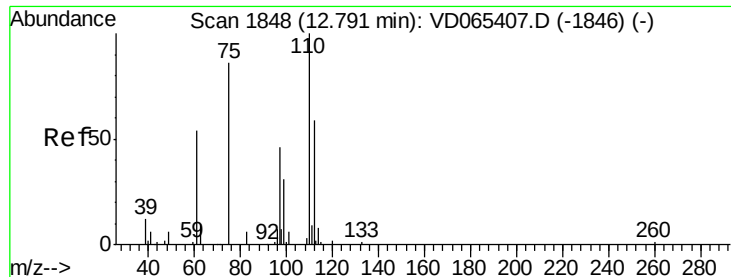
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 59.242 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.15 min

Lab File: VD065437.D

Acq: 05 Mar 2020 18:03

Instrument :

MSVOA_D

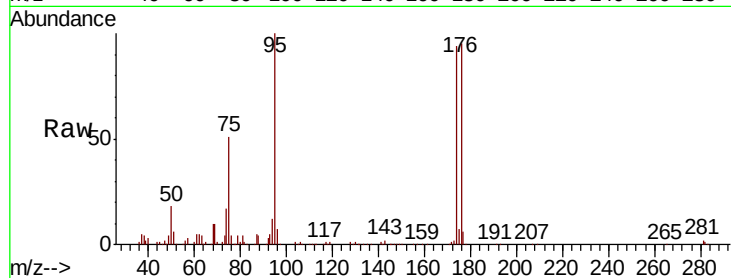
ClientSampleId :

Tot Ion: 75 Resp: 139101

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.64

80000

60000

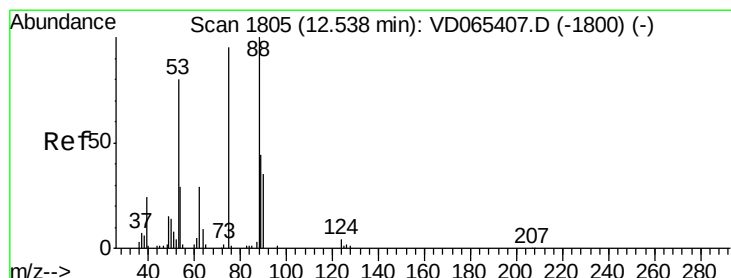
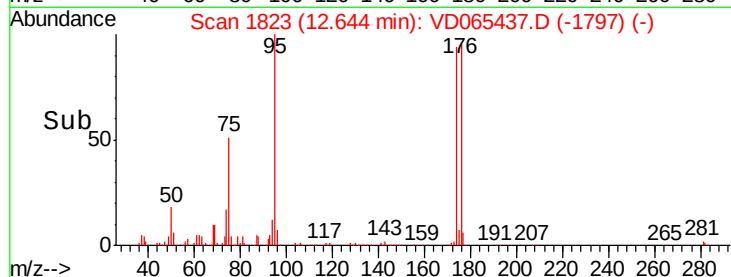
40000

20000

0

Time-->

12.60 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 125.017 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD065437.D

Acq: 05 Mar 2020 18:03

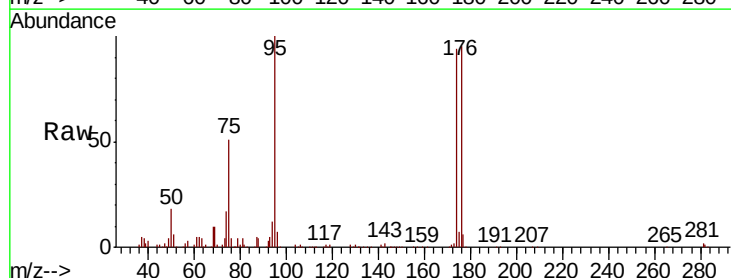
Tgt Ion: 75 Resp: 139101

Ion Ratio Lower Upper

75 100

53 0.1 71.3 106.9#

89 0.0 37.0 55.6#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

12.64

80000

60000

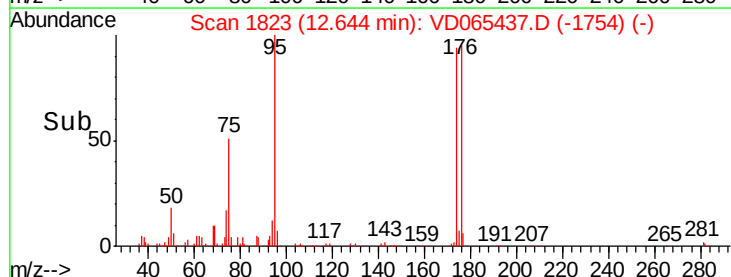
40000

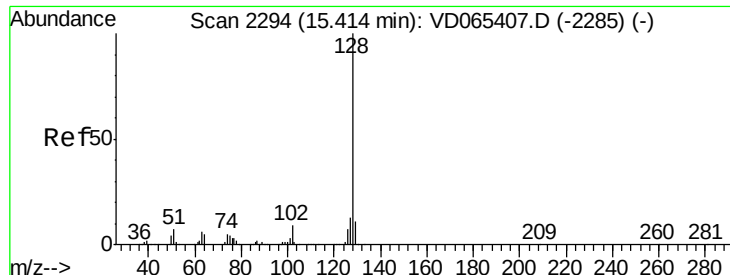
20000

0

Time-->

12.60 12.70





#95
Naphthalene
Concen: 4.498 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD065437.D
Acq: 05 Mar 2020 18:03

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0
129	6.1	8.7	13.1

