

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020720\
 Data File : VD065107.D
 Acq On : 07 Feb 2020 13:55
 Operator : VA/SY
 Sample : L1431-10
 Misc : 11.78G/5.00ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Feb 08 00:07:33 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	17307	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	26508	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.66	117	29637	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	14360	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	11938	81.16	ug/l	0.00
Spiked Amount						
			Recovery	=	162.32%	
35) Dibromofluoromethane	7.92	113	10594	71.63	ug/l	0.00
Spiked Amount						
			Recovery	=	143.26%	
50) Toluene-d8	10.34	98	32216	54.73	ug/l	0.00
Spiked Amount						
			Recovery	=	109.46%	
62) 4-Bromofluorobenzene	12.64	95	11852	63.54	ug/l	0.00
Spiked Amount						
			Recovery	=	127.08%	

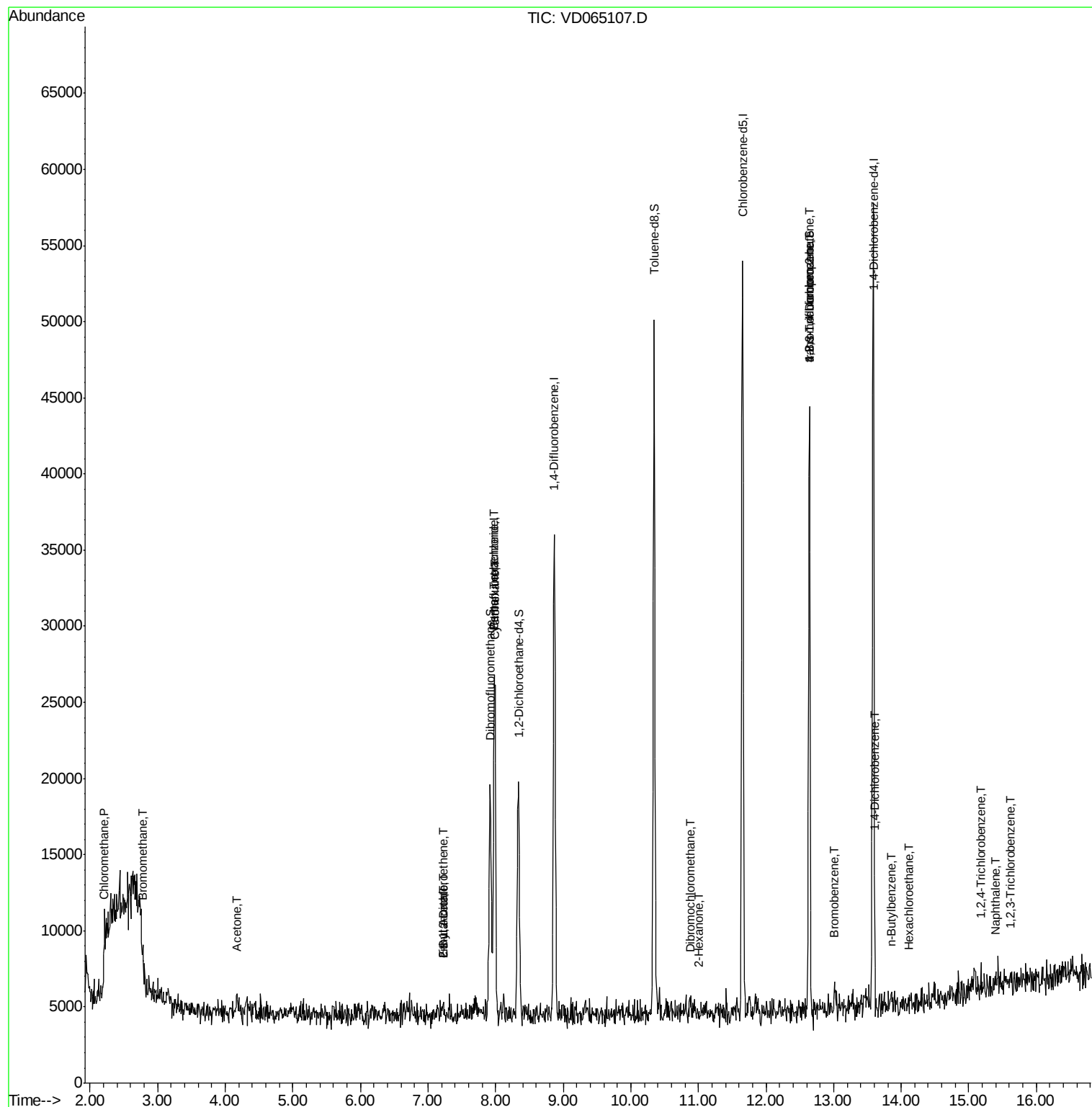
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	799	4.713	ug/l #	85
5) Bromomethane	2.78	94	673	5.789	ug/l	85
16) Acetone	4.16	43	2040	55.471	ug/l #	80
20) Methylene Chloride	4.96	84	70	Below Cal	#	51
25) 2-Butanone	7.23	43	121	2.758	ug/l #	50
27) cis-1,2-Dichloroethene	7.23	96	222	1.209	ug/l #	13
31) Cyclohexane	8.00	56	621	2.122	ug/l #	75
37) Ethyl Acetate	7.23	43	121	1.202	ug/l #	16
38) Carbon Tetrachloride	7.99	117	1629	6.471	ug/l #	11
59) 2-Hexanone	11.00	43	94	1.400	ug/l #	26
60) Dibromochloromethane	10.88	129	228	1.497	ug/l #	11
76) 1,2,3-Trichloropropane	12.64	75	5891	54.185	ug/l #	100
77) Bromobenzene	13.01	156	539	2.270	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.64	75	5891	108.365	ug/l #	10
88) 1,4-Dichlorobenzene	13.61	146	456	1.030	ug/l #	74
89) n-Butylbenzene	13.86	91	821	1.008	ug/l #	67
90) Hexachloroethane	14.12	117	168	1.005	ug/l #	7
93) 1,2,4-Trichlorobenzene	15.17	180	423	1.554	ug/l #	25
95) Naphthalene	15.41	128	948	2.095	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.61	180	312	1.340	ug/l #	29

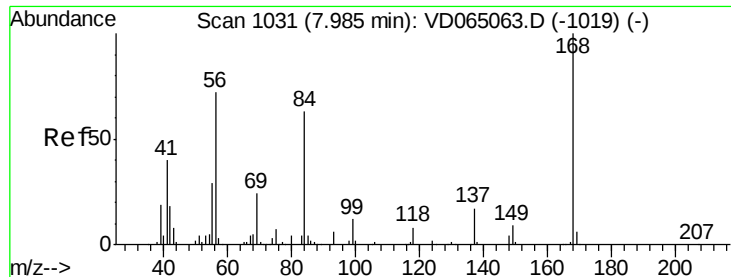
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :

MSVOA_D

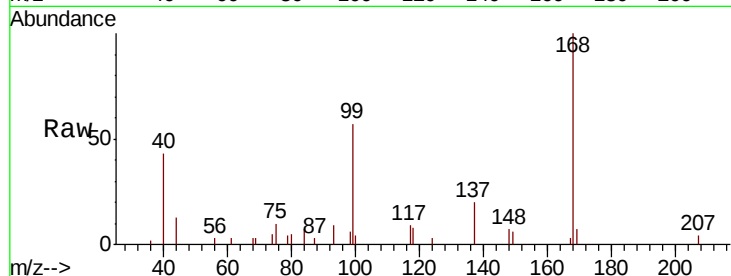
ClientSampleId :

Tot Ion:168 Resp: 17307

Ion Ratio Lower Upper

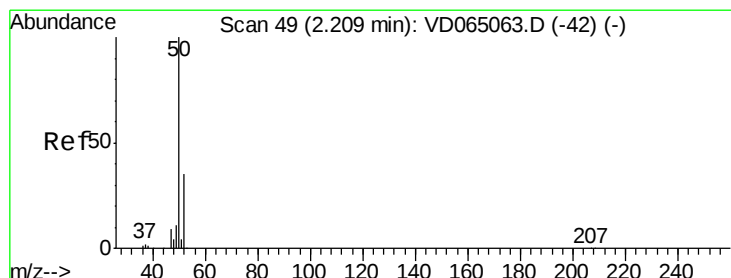
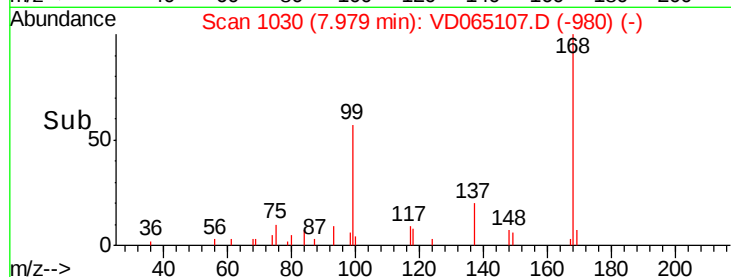
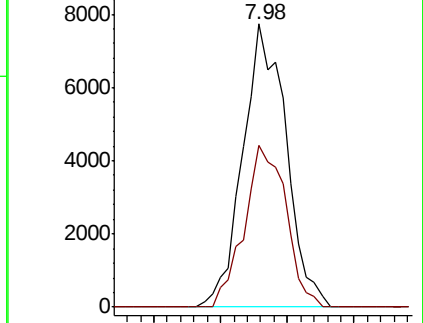
168 100

99 57.3 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 4.713 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD065107.D

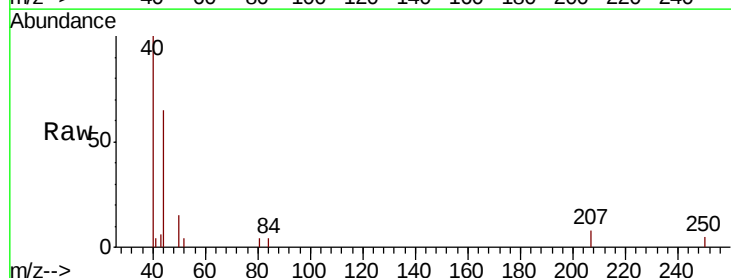
Acq: 07 Feb 2020 13:55

Tgt Ion: 50 Resp: 799

Ion Ratio Lower Upper

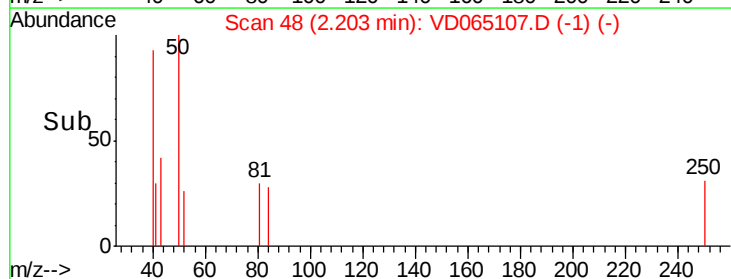
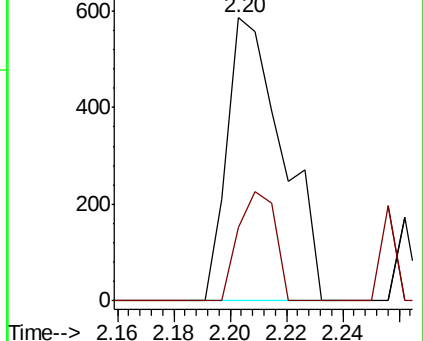
50 100

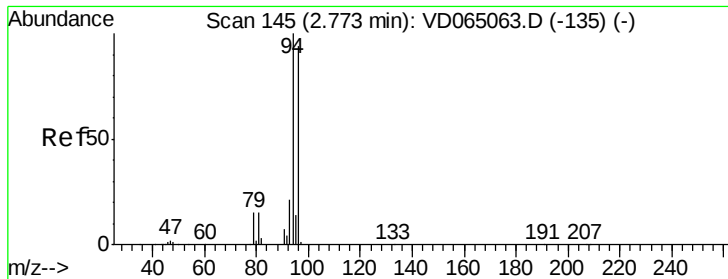
52 26.1 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 5.789 ug/l

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :

MSVOA_D

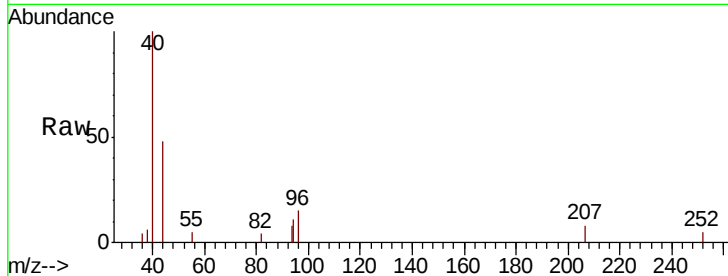
ClientSampleId :

Tot Ion: 94 Resp: 673

Ion Ratio Lower Upper

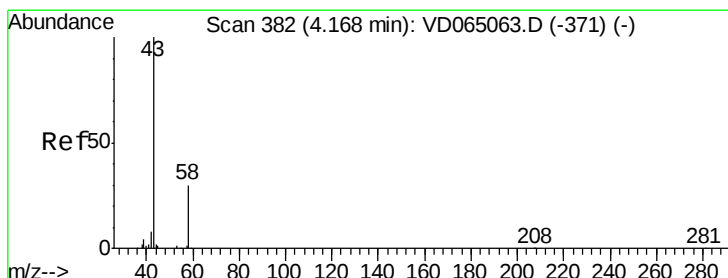
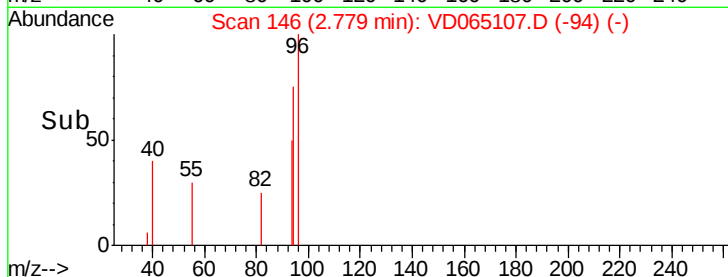
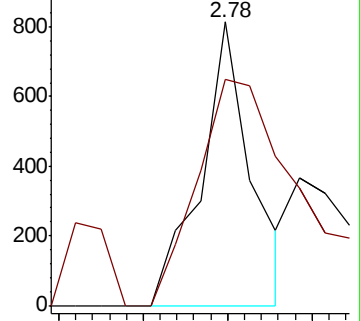
94 100

96 79.7 75.4 113.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#16

Acetone

Concen: 55.471 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD065107.D

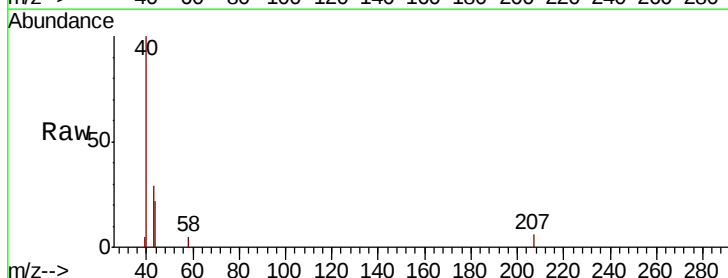
Acq: 07 Feb 2020 13:55

Tgt Ion: 43 Resp: 2040

Ion Ratio Lower Upper

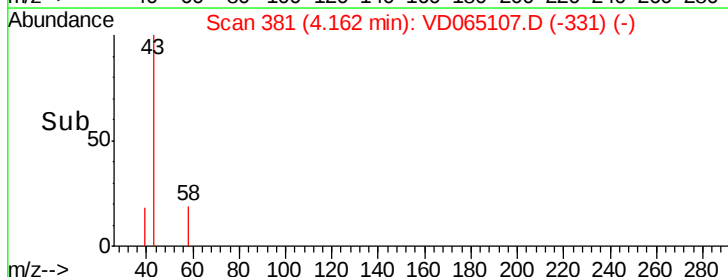
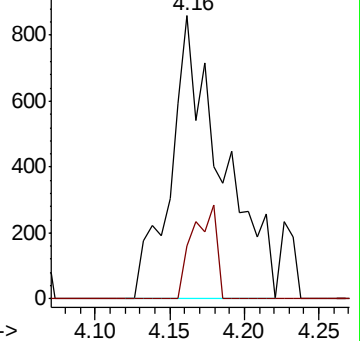
43 100

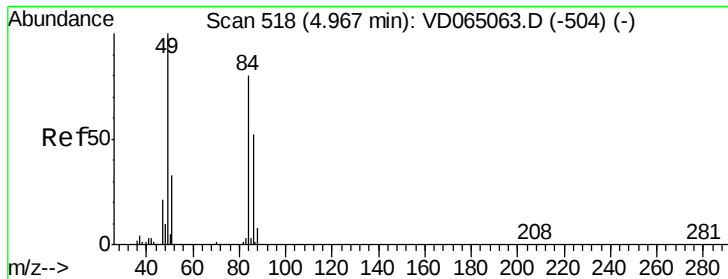
58 18.9 23.5 35.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



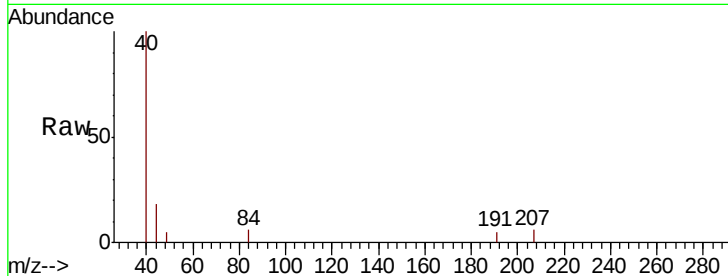


#20

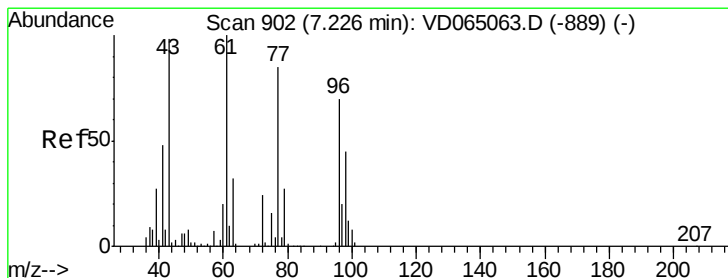
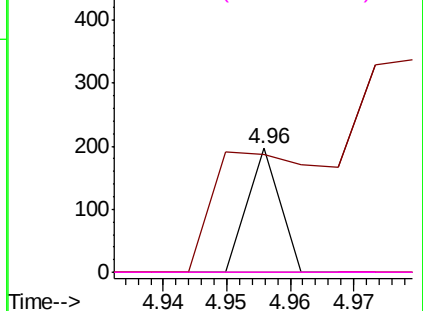
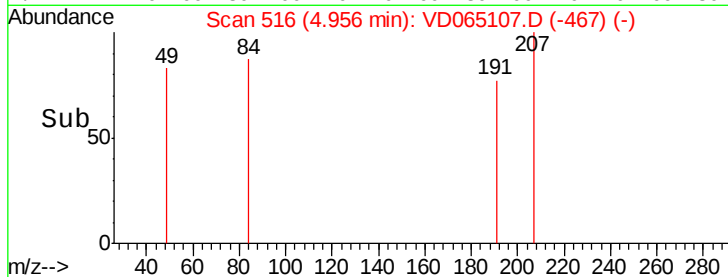
Methylene Chloride
 Concen: Below Cal
 RT: 4.96 min Scan# 516
 Delta R.T. -0.01 min
 Lab File: VD065107.D
 Acq: 07 Feb 2020 13:55

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:	84	Resp:	70
Ion	Ratio	Lower	Upper
84	100		
49	94.9	100.4	150.6#
51	0.0	32.7	49.1#
86	0.0	52.4	78.6#



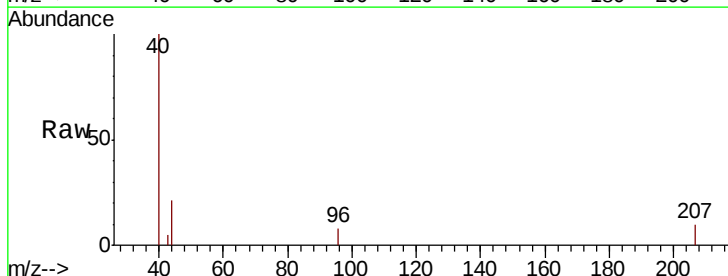
Abundance Ion 83.90 (83.60 to 84.60): VDC
 Ion 48.90 (48.60 to 49.60): VDC
 Ion 50.90 (50.60 to 51.60): VDC
 Ion 85.90 (85.60 to 86.60): VDC



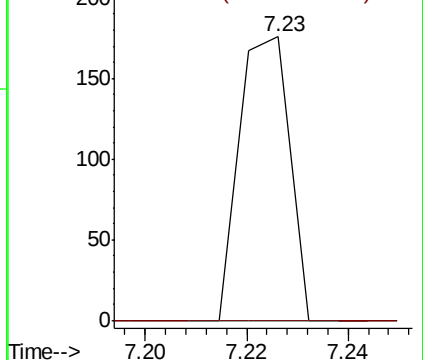
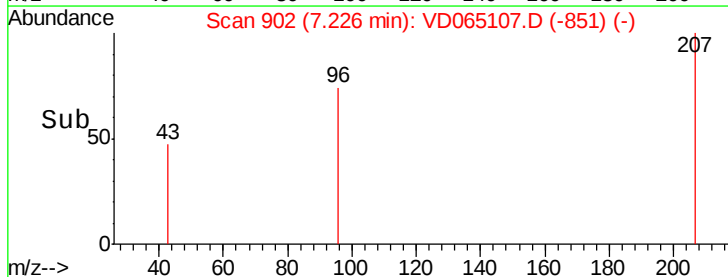
#25

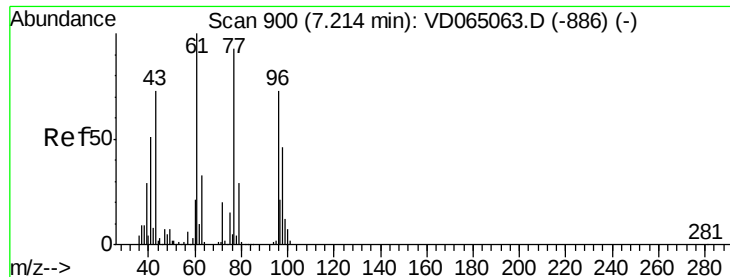
2-Butanone
 Concen: 2.758 ug/l
 RT: 7.23 min Scan# 902
 Delta R.T. 0.00 min
 Lab File: VD065107.D
 Acq: 07 Feb 2020 13:55

Tgt Ion:	43	Resp:	121
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



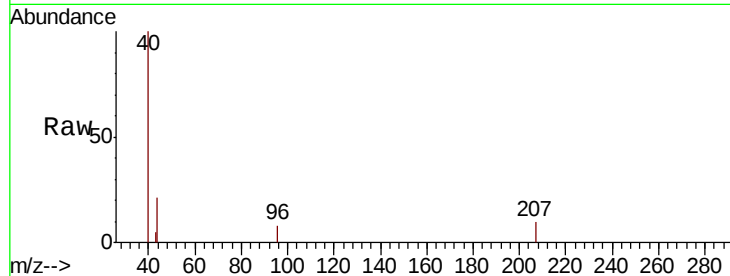


#27

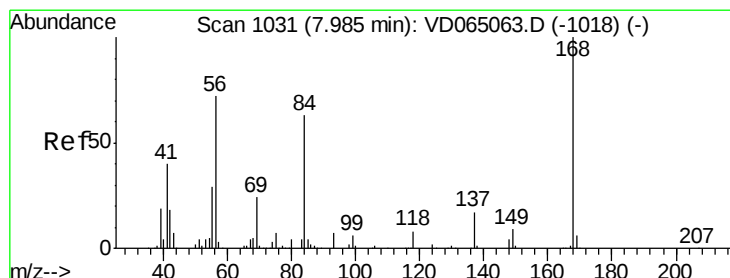
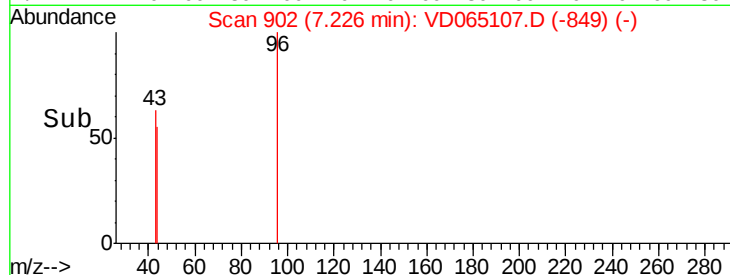
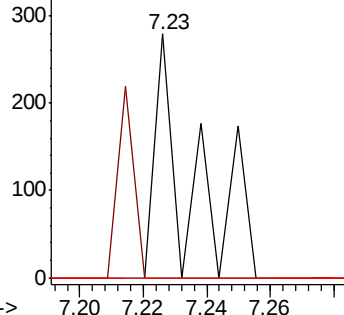
cis-1,2-Dichloroethene
 Concen: 1.209 ug/l
 RT: 7.23 min Scan# 902
 Delta R.T. 0.01 min
 Lab File: VD065107.D
 Acq: 07 Feb 2020 13:55

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	35.1	0.0	292.8
98	0.0	0.0	128.8



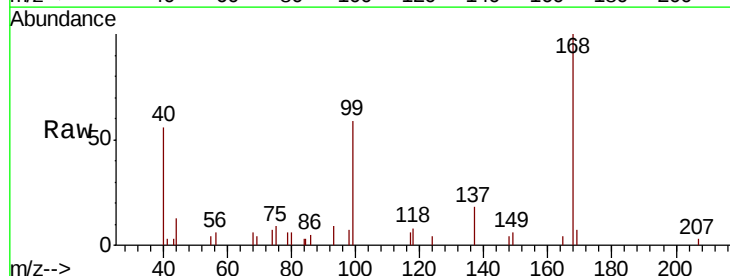
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 97.90 (97.60 to 98.60): VDC



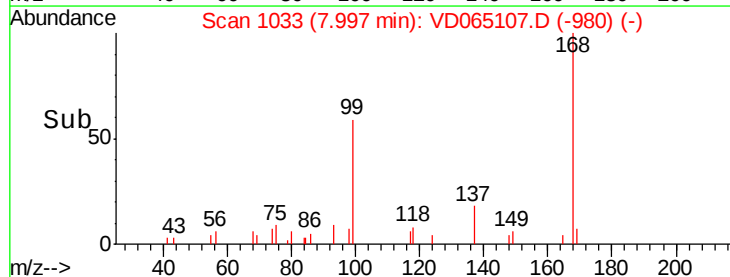
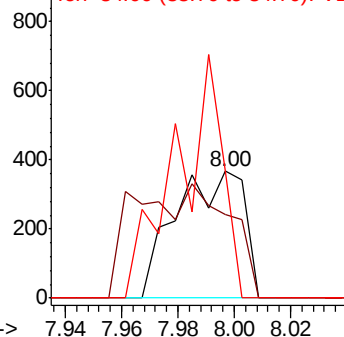
#31

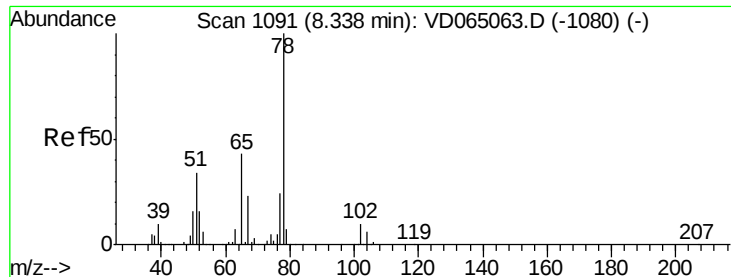
Cyclohexane
 Concen: 2.122 ug/l
 RT: 8.00 min Scan# 1033
 Delta R.T. 0.01 min
 Lab File: VD065107.D
 Acq: 07 Feb 2020 13:55

Tgt Ion	Ratio	Lower	Upper
56	100		
69	66.2	26.6	40.0#
84	100.5	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

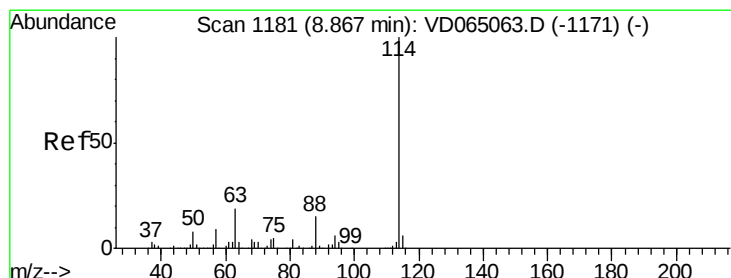
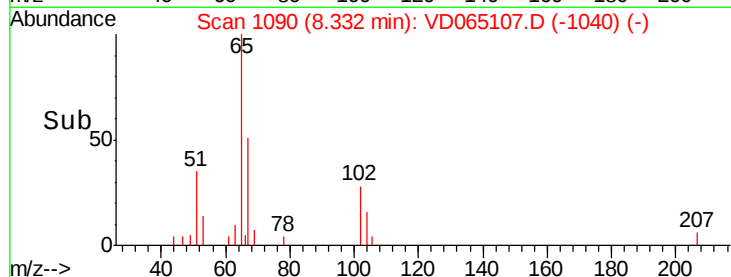
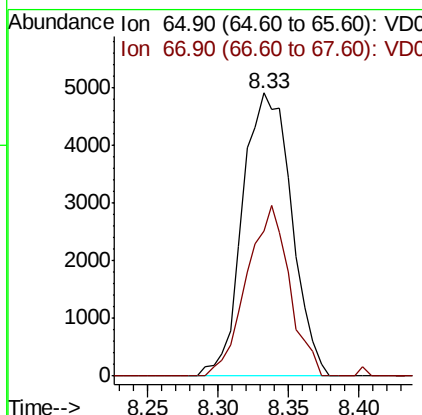
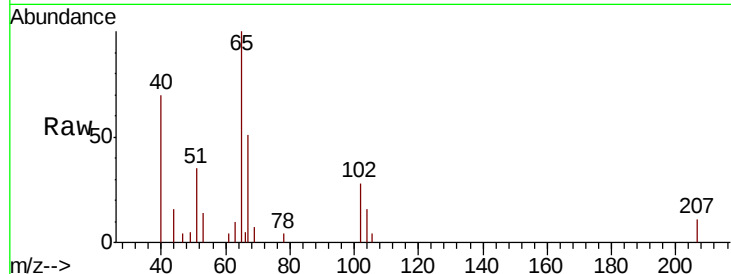




#33
 1,2-Dichloroethane-d4
 Concen: 81.159 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD065107.D
 Acq: 07 Feb 2020 13:55

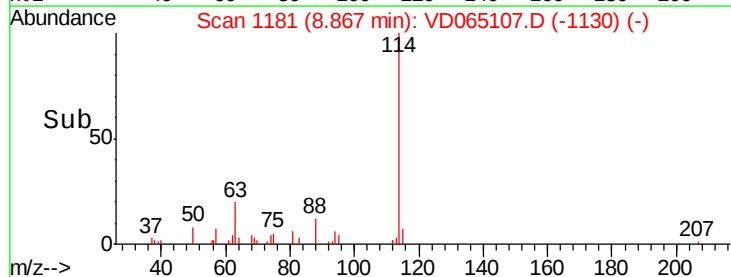
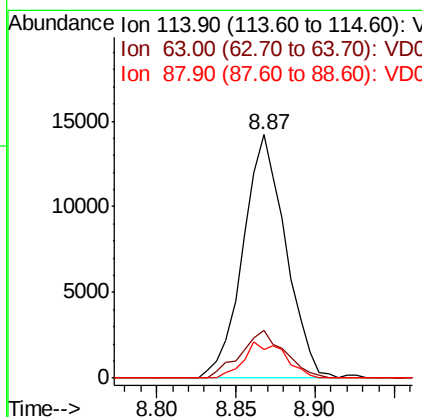
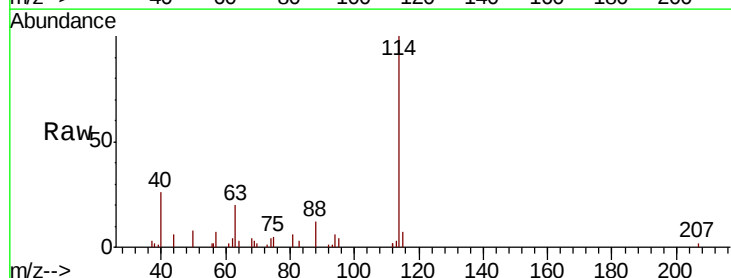
Instrument :
 MSVOA_D
 ClientSampleId :

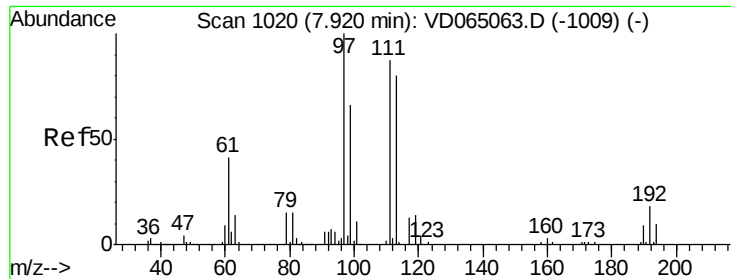
Tot Ion: 65 Resp: 11938
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065107.D
 Acq: 07 Feb 2020 13:55

Tgt Ion: 114 Resp: 26508
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 38.8
 88 11.7 0.0 29.6





#35

Dibromofluoromethane

Concen: 71.630 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :
MSVOA_D
ClientSampleId :

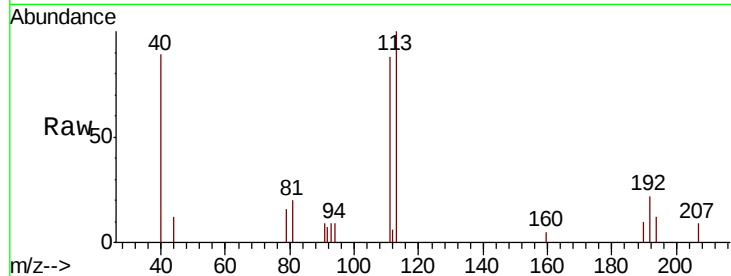
Tot Ion:113 Resp: 10594

Ion Ratio Lower Upper

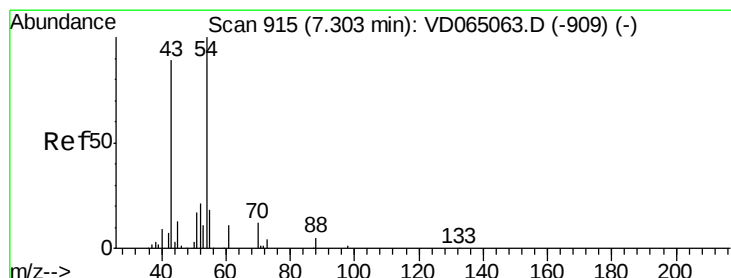
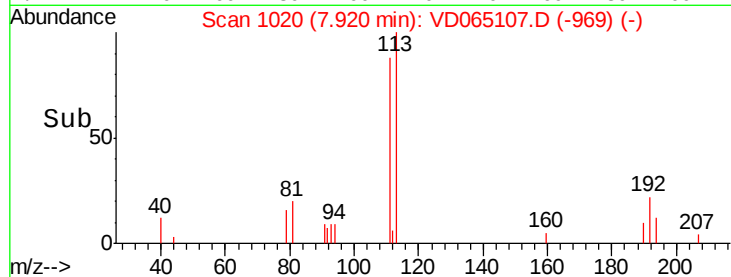
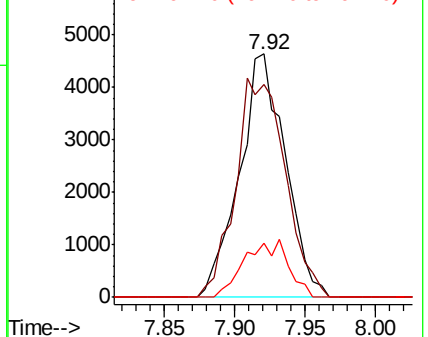
113 100

111 0.0 83.1 124.7#

192 22.4 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: 1.202 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.08 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

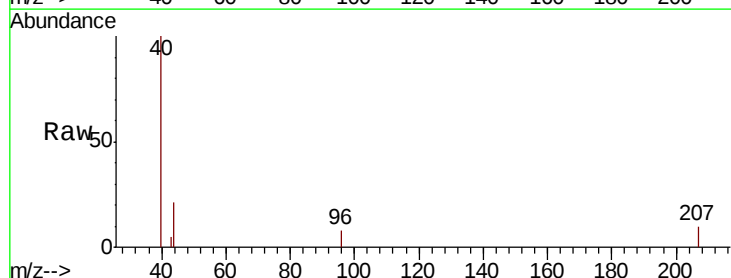
Tgt Ion: 43 Resp: 121

Ion Ratio Lower Upper

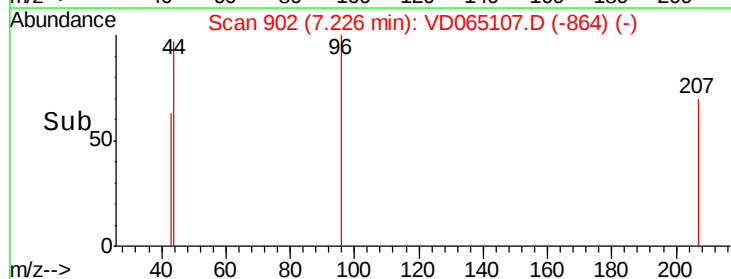
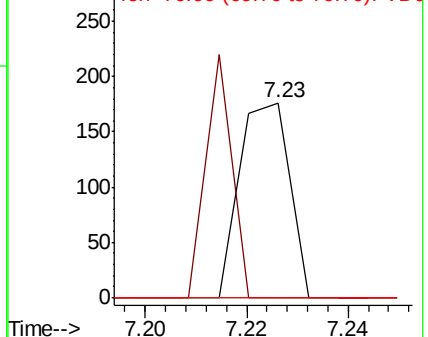
43 100

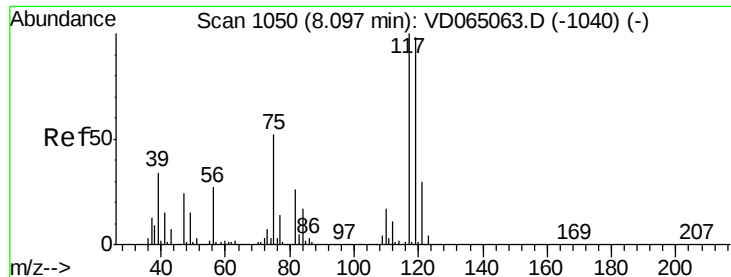
61 64.5 11.0 16.4#

70 0.0 8.2 12.2#



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: 6.471 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :

MSVOA_D

ClientSampleId :

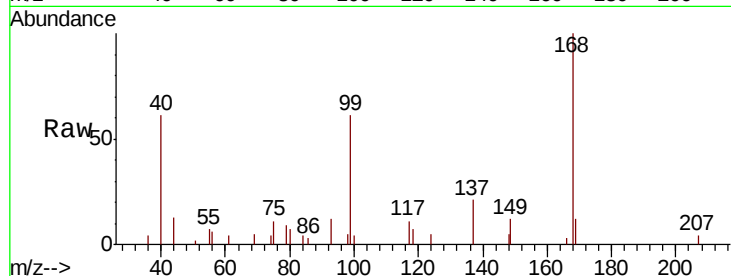
Tot Ion:117 Resp: 1629

Ion Ratio Lower Upper

117 100

119 0.0 78.5 117.7#

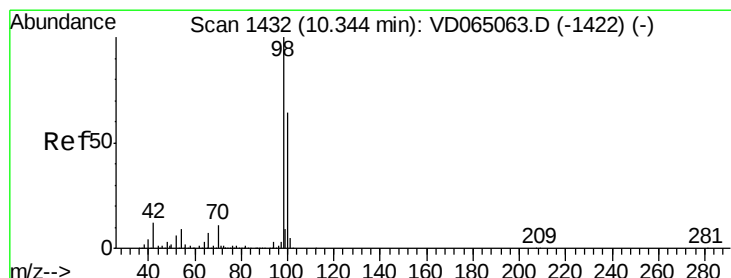
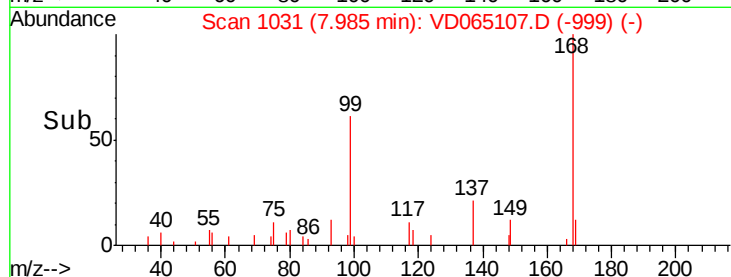
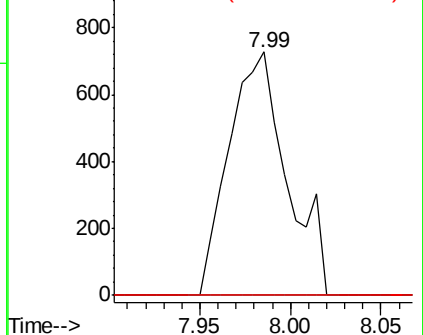
121 0.0 23.8 35.6#



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



#50

Toluene-d8

Concen: 54.726 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065107.D

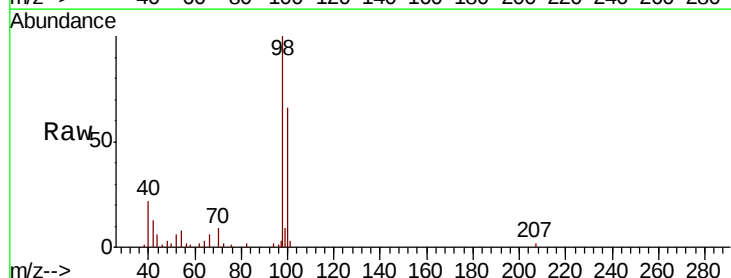
Acq: 07 Feb 2020 13:55

Tgt Ion: 98 Resp: 32216

Ion Ratio Lower Upper

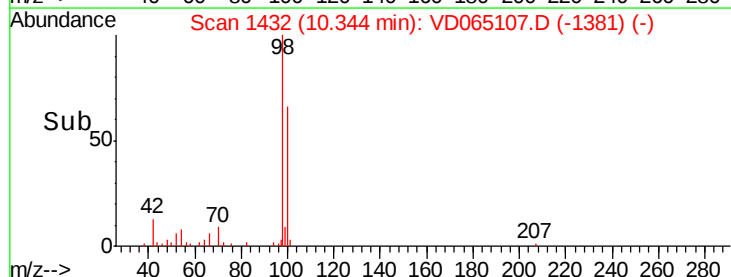
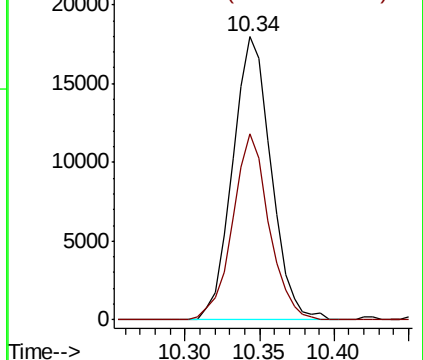
98 100

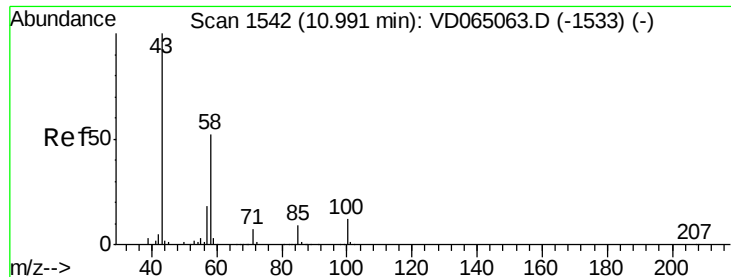
100 62.3 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

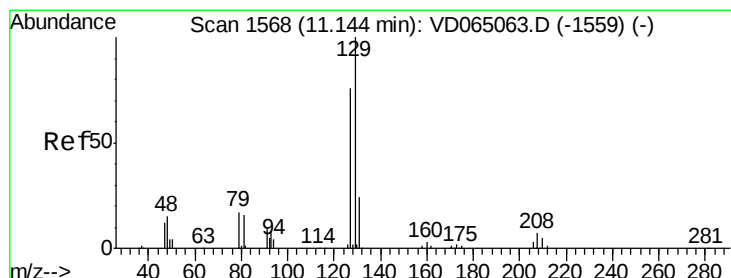
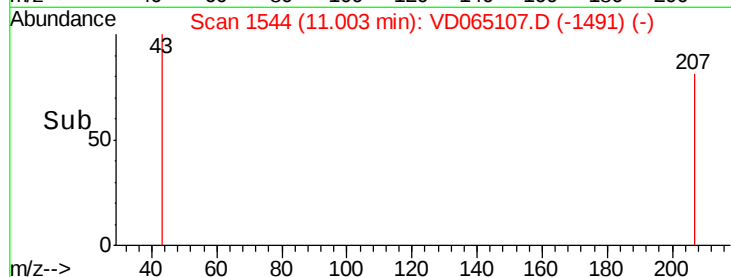
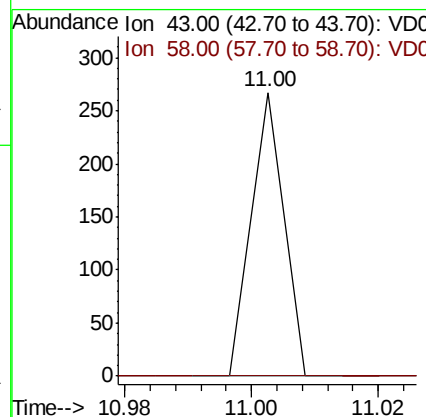
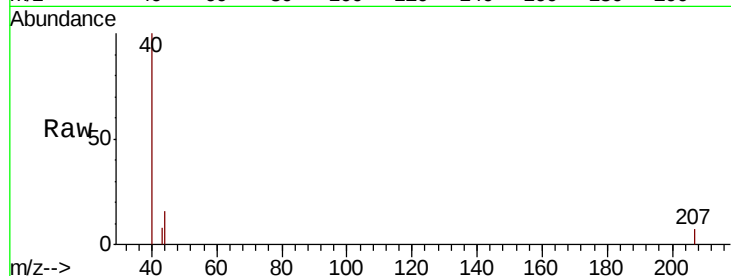




#59
2-Hexanone
Concen: 1.400 ug/l
RT: 11.00 min Scan# 1544
Delta R.T. 0.01 min
Lab File: VD065107.D
Acq: 07 Feb 2020 13:55

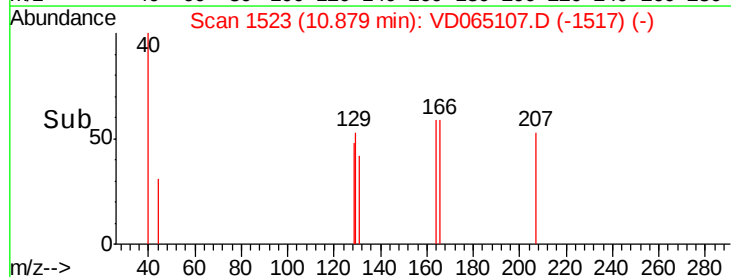
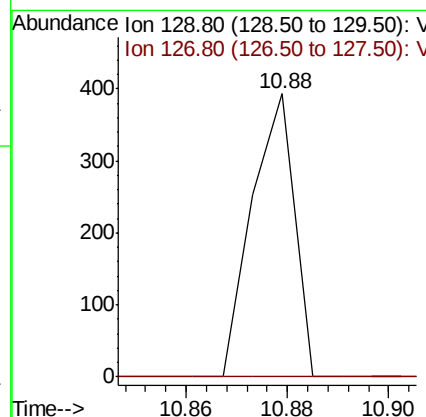
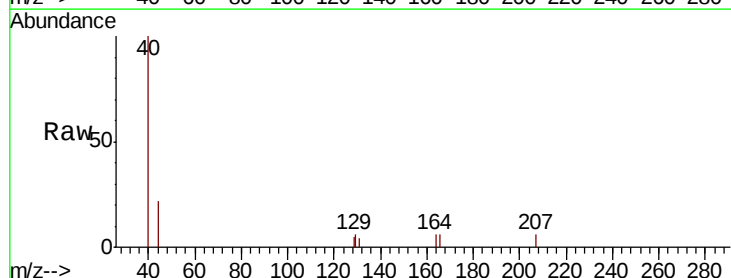
Instrument :
MSVOA_D
ClientSampleId :

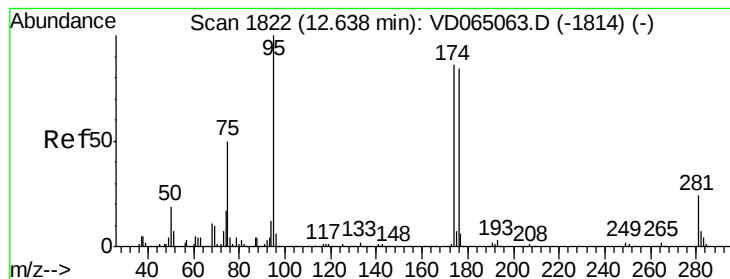
Tot Ion: 43 Resp: 94
Ion Ratio Lower Upper
43 100
58 0.0 26.2 78.6#



#60
Dibromochloromethane
Concen: 1.497 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.26 min
Lab File: VD065107.D
Acq: 07 Feb 2020 13:55

Tgt Ion: 129 Resp: 228
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.9#





#62

4-Bromofluorobenzene

Concen: 63.539 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :

MSVOA_D

ClientSampleId :

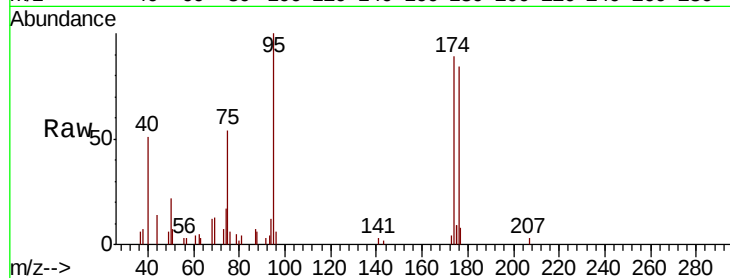
Tot Ion: 95 Resp: 11852

Ion Ratio Lower Upper

95 100

174 93.4 0.0 180.0

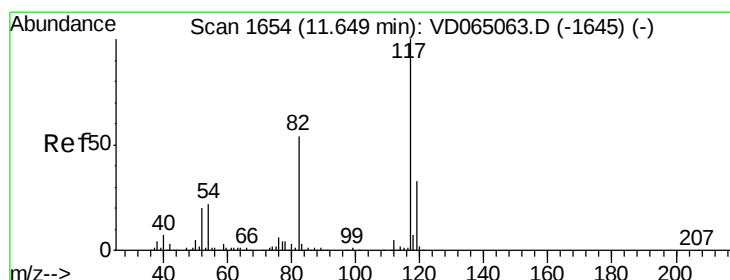
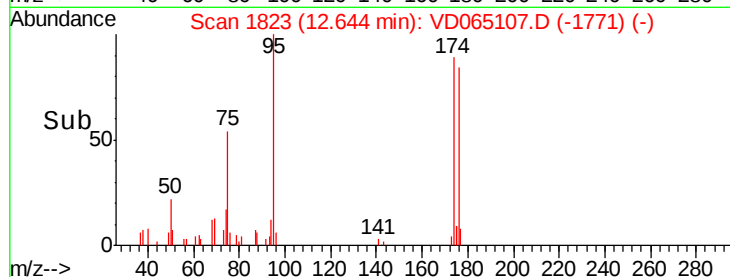
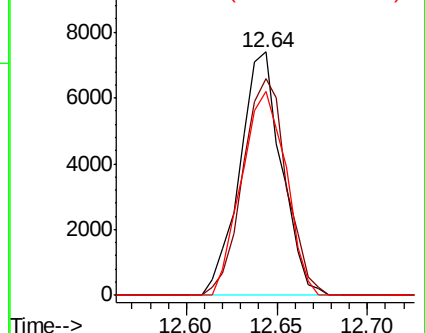
176 89.1 0.0 173.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.66 min Scan# 1655

Delta R.T. 0.01 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

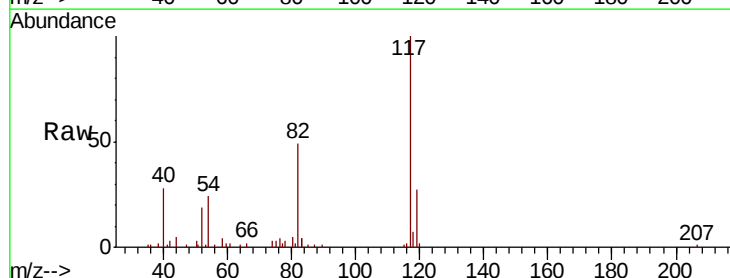
Tgt Ion: 117 Resp: 29637

Ion Ratio Lower Upper

117 100

82 49.0 43.1 64.7

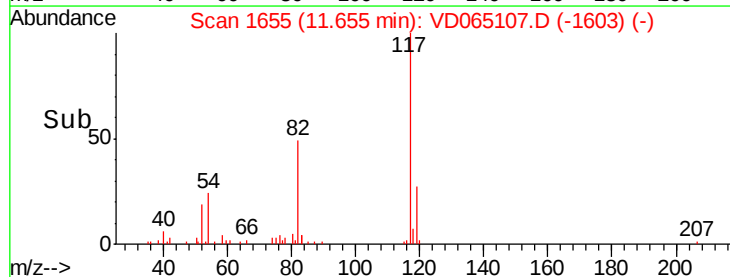
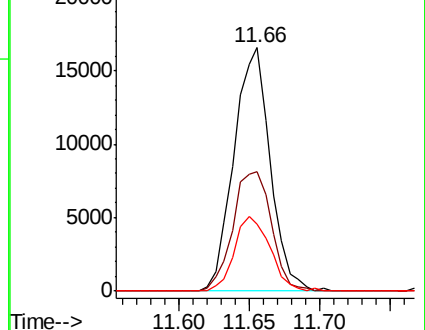
119 27.4 26.0 39.0

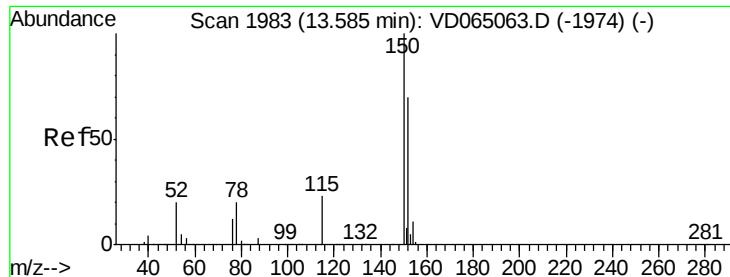


Abundance Ion 116.90 (116.60 to 117.60): V

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: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :

MSVOA_D

ClientSampleId :

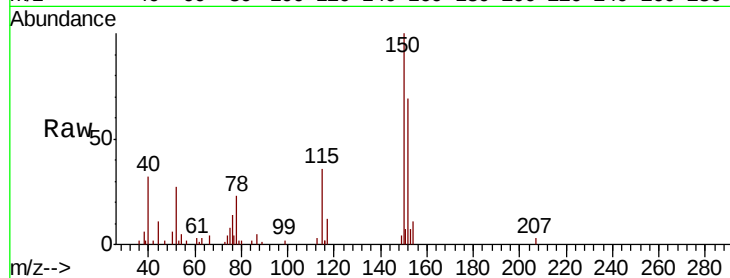
Tot Ion:152 Resp: 14360

Ion Ratio Lower Upper

152 100

115 57.3 27.5 82.4

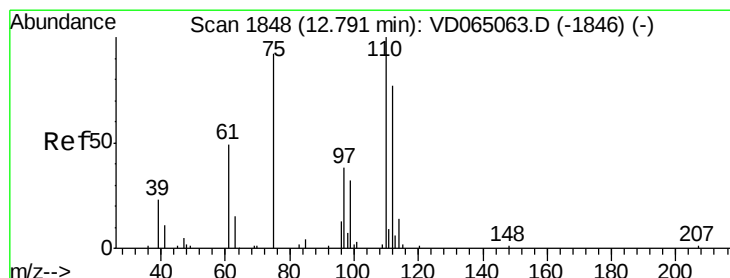
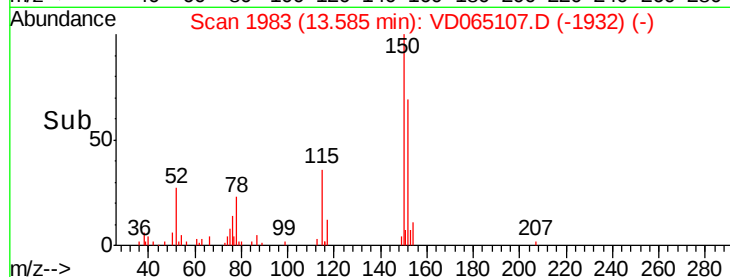
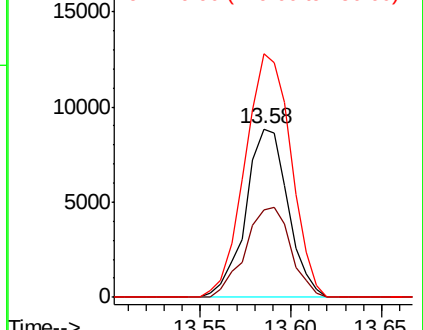
150 156.9 0.0 343.2



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: 54.185 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.15 min

Lab File: VD065107.D

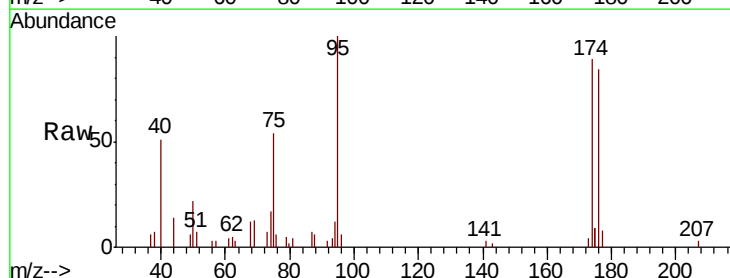
Acq: 07 Feb 2020 13:55

Tgt Ion: 75 Resp: 5891

Ion Ratio Lower Upper

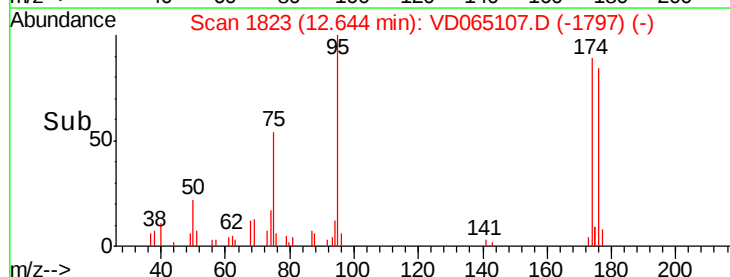
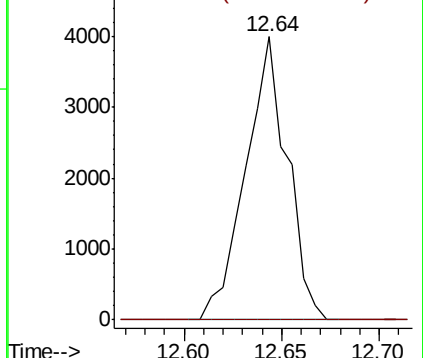
75 100

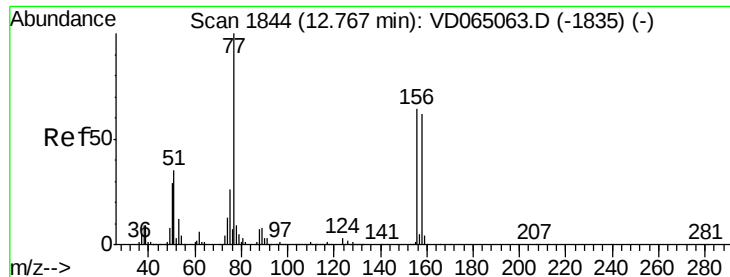
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 2.270 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. 0.24 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :

MSVOA_D

ClientSampleId :

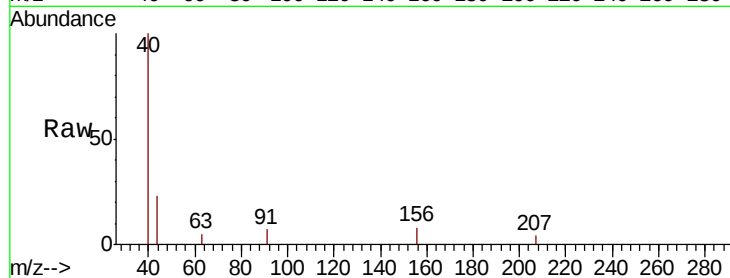
Tot Ion:156 Resp: 539

Ion Ratio Lower Upper

156 100

77 0.0 85.6 256.8#

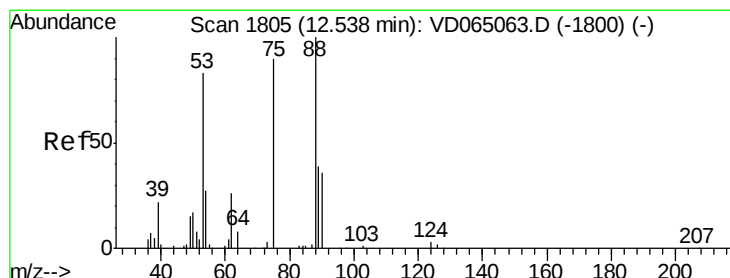
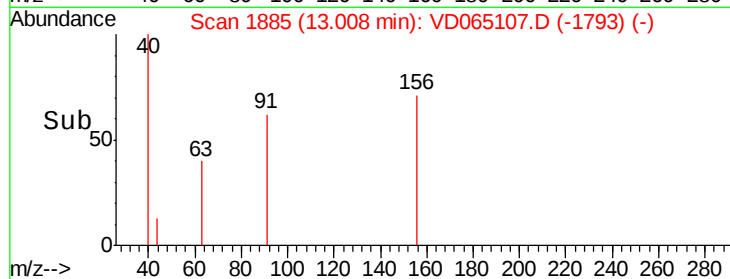
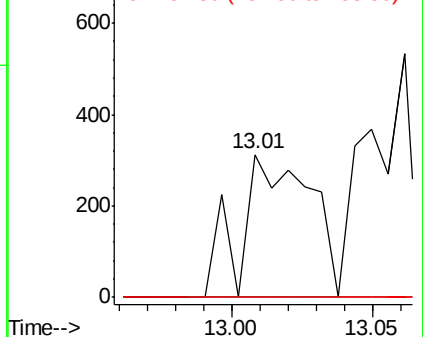
158 0.0 47.4 142.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 108.365 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

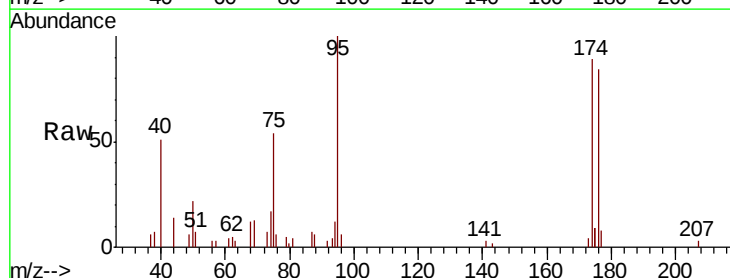
Tgt Ion: 75 Resp: 5891

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

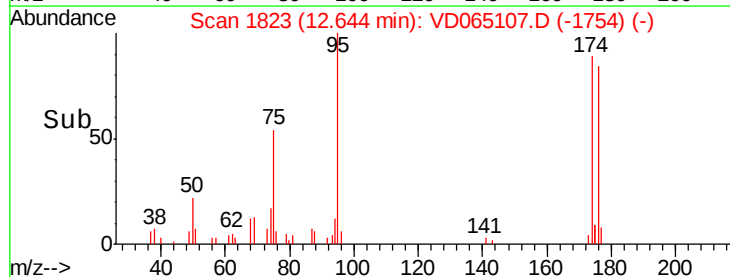
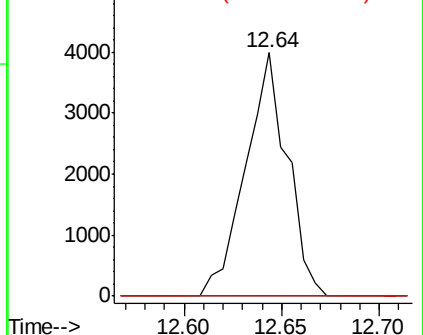
89 0.0 37.0 55.4#

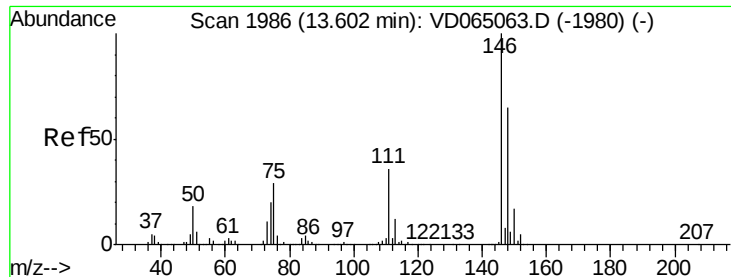


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V





#88

1,4-Dichlorobenzene

Concen: 1.030 ug/l

RT: 13.61 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :

MSVOA_D

ClientSampled :

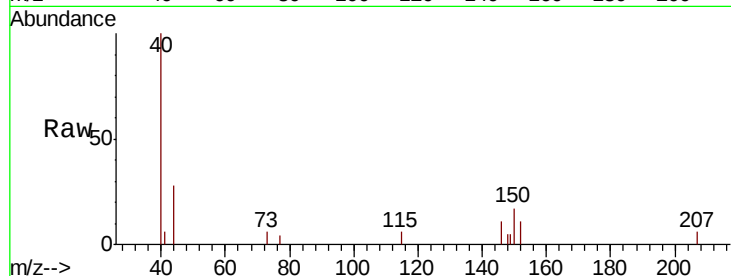
Tot Ion:146 Resp: 456

Ion Ratio Lower Upper

146 100

111 0.0 18.5 55.5#

148 69.3 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

13.61

400

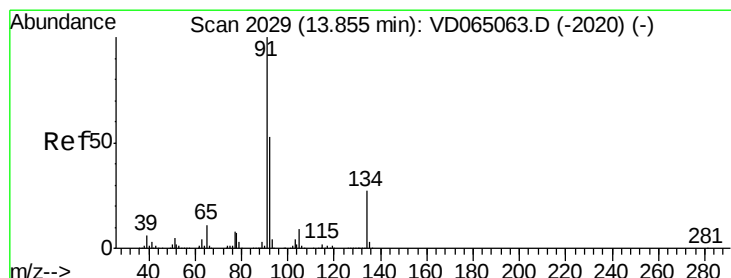
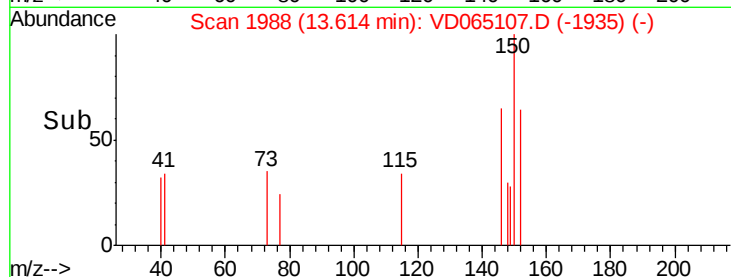
300

200

100

0

Time-->



#89

n-Butylbenzene

Concen: 1.008 ug/l

RT: 13.86 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

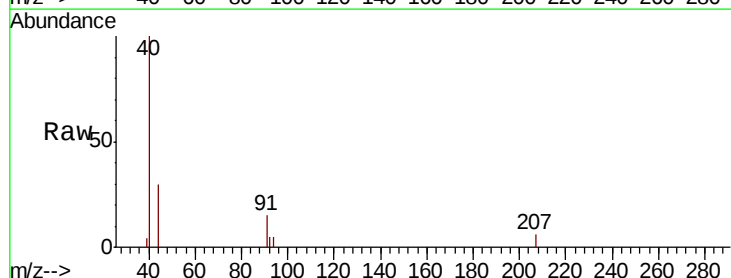
Tgt Ion: 91 Resp: 821

Ion Ratio Lower Upper

91 100

92 31.9 26.7 80.1

134 6.6 13.4 40.2#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.00 (133.70 to 134.70): V

13.86

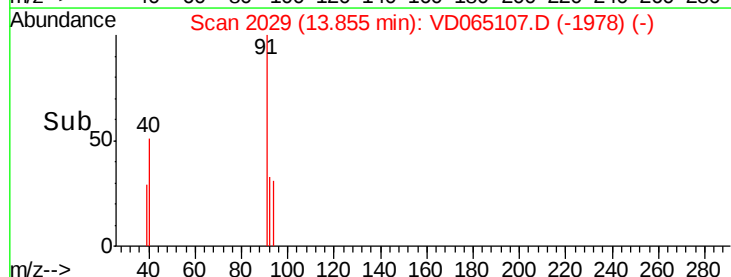
600

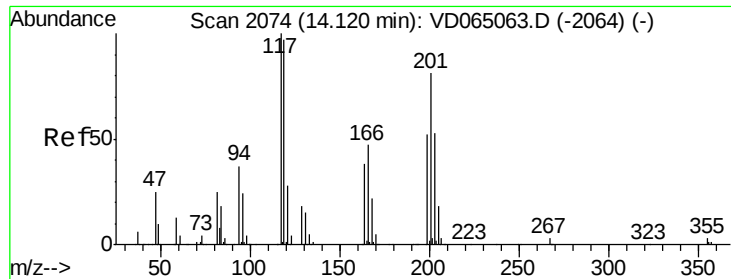
400

200

0

Time-->





#90

Hexachloroethane

Concen: 1.005 ug/l

RT: 14.12 min Scan# 2074

Delta R.T. 0.00 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

Instrument :

MSVOA_D

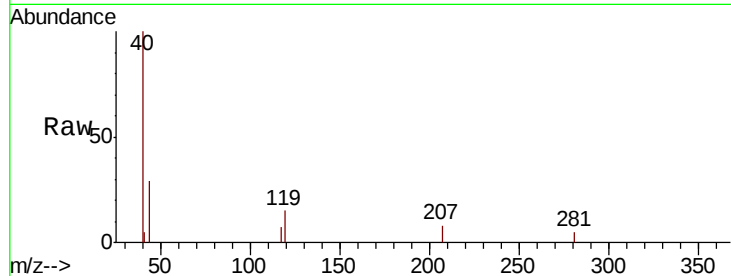
ClientSampleId :

Tot Ion:117 Resp: 168

Ion Ratio Lower Upper

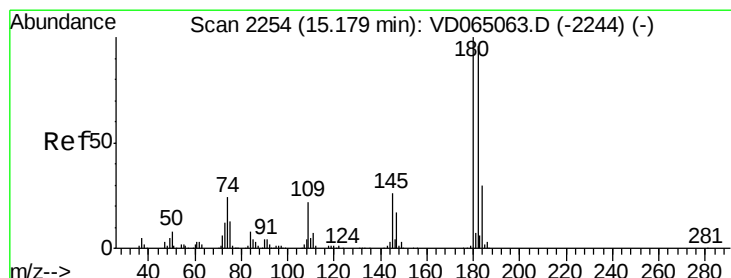
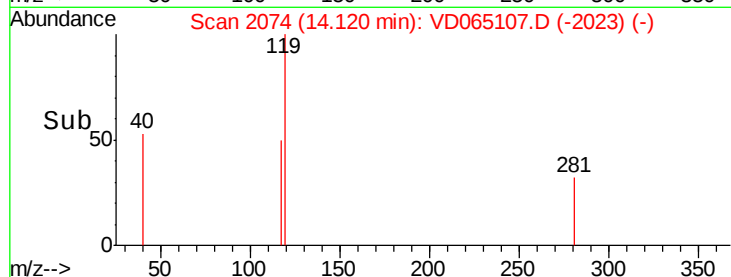
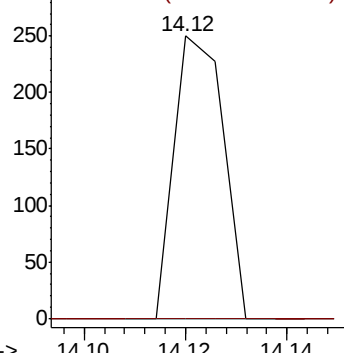
117 100

201 0.0 42.5 127.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#93

1,2,4-Trichlorobenzene

Concen: 1.554 ug/l

RT: 15.17 min Scan# 2253

Delta R.T. -0.01 min

Lab File: VD065107.D

Acq: 07 Feb 2020 13:55

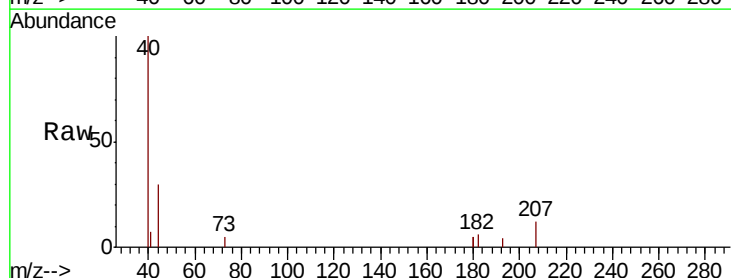
Tgt Ion:180 Resp: 423

Ion Ratio Lower Upper

180 100

182 16.1 47.4 142.3#

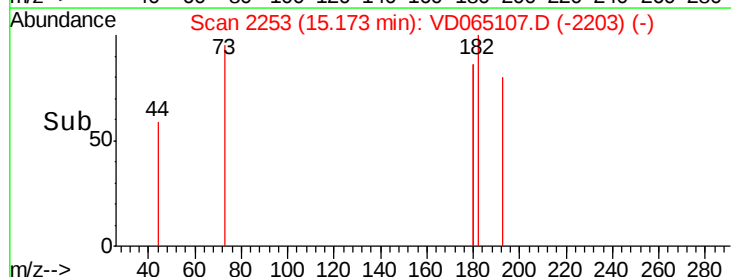
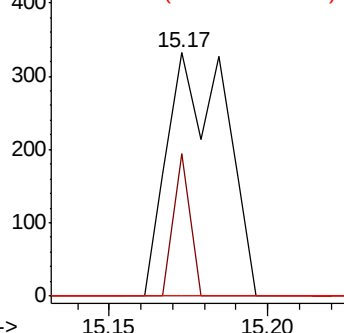
145 0.0 14.1 42.4#

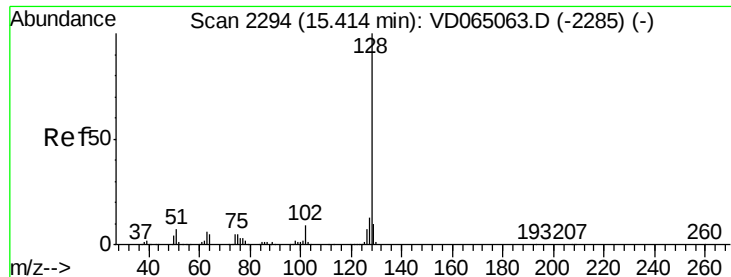


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

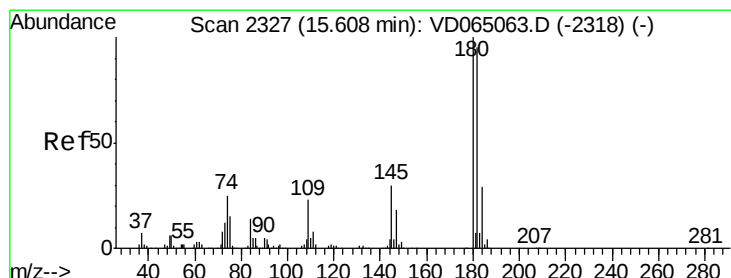
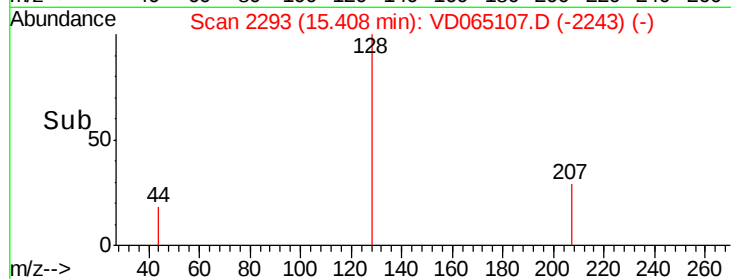
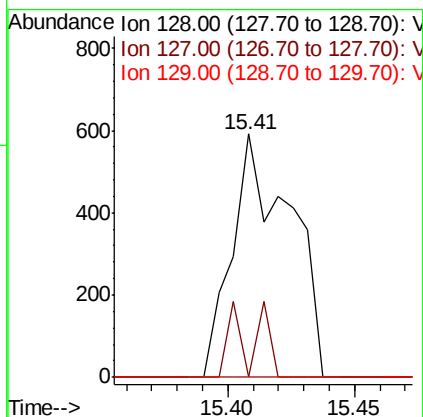
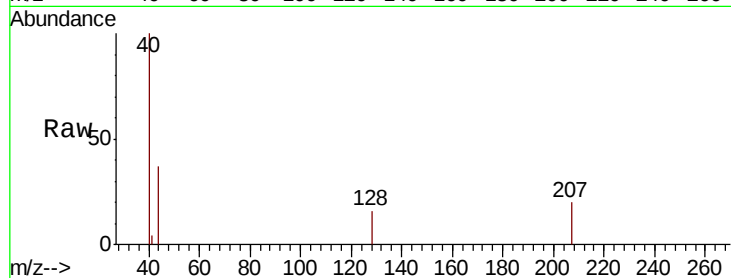




#95
Naphthalene
Concen: 2.095 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.01 min
Lab File: VD065107.D
Acq: 07 Feb 2020 13:55

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.6	15.8
129	0.0	8.7	13.1#



#96
1,2,3-Trichlorobenzene
Concen: 1.340 ug/l
RT: 15.61 min Scan# 2328
Delta R.T. 0.01 min
Lab File: VD065107.D
Acq: 07 Feb 2020 13:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	20.5	47.1	141.4#
145	0.0	14.9	44.9#

