

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032720\
 Data File : VD065545.D
 Acq On : 27 Mar 2020 15:43
 Operator : VA/SY
 Sample : L1761-11RE
 Misc : 7.84G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 30 06:34:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032620S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 01:47:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	461773	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	879993	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	869280	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	444157	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	260068	67.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	135.32%	
35) Dibromofluoromethane	7.92	113	302452	55.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.36%	
50) Toluene-d8	10.34	98	1087542	53.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.66%	
62) 4-Bromofluorobenzene	12.64	95	371450	57.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.78%	

Target Compounds

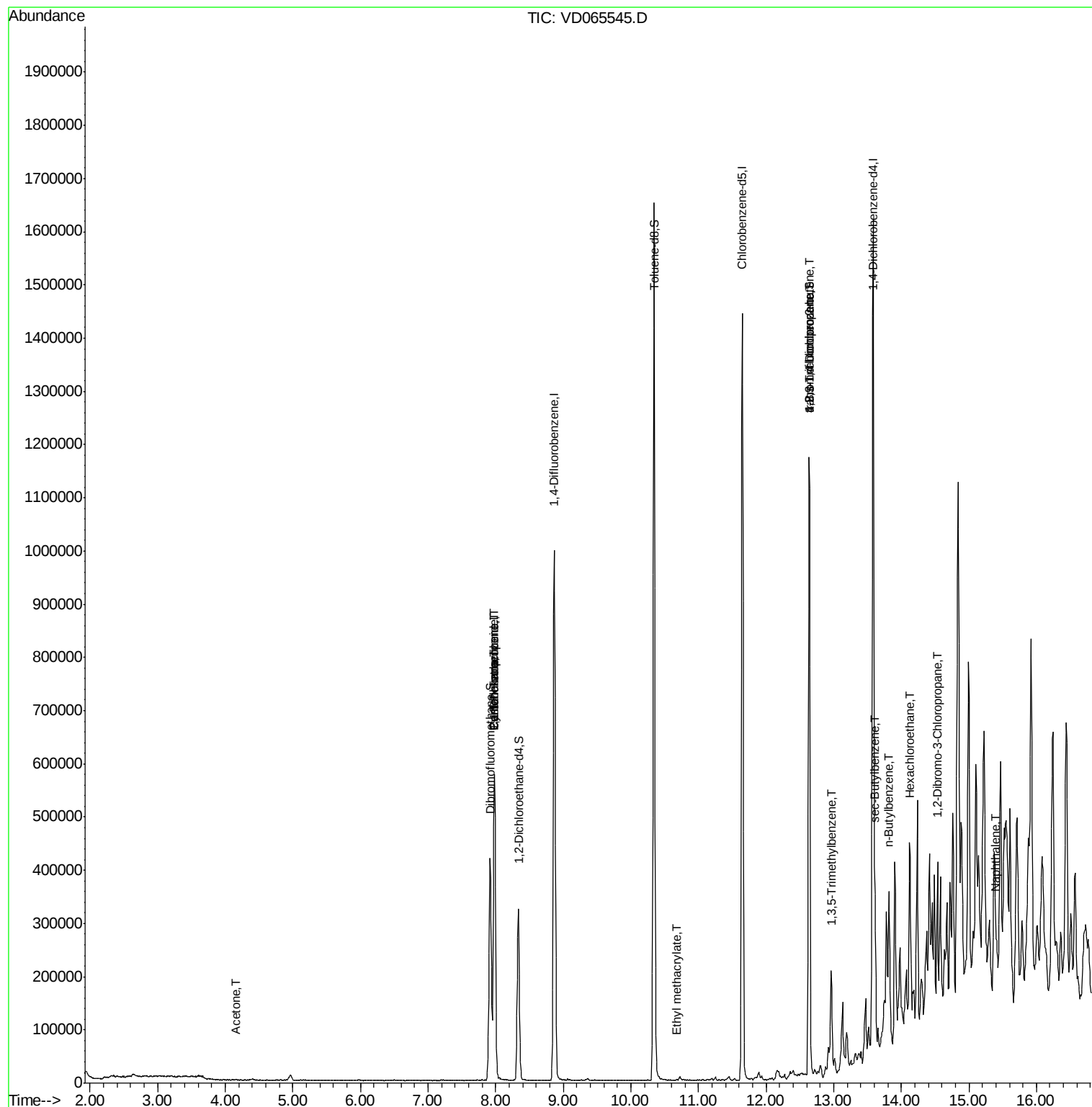
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	153	Below Cal	#	42
3) Chloromethane	2.21	50	468	Below Cal	#	74
5) Bromomethane	2.78	94	235	Below Cal	#	4
16) Acetone	4.17	43	1478	2.038	ug/l #	74
20) Methylene Chloride	4.97	84	7908	Below Cal	#	84
31) Cyclohexane	7.98	56	8798	1.218	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	32770	4.076	ug/l #	48
38) Carbon Tetrachloride	7.98	117	42859	5.061	ug/l #	18
56) Ethyl methacrylate	10.67	69	376	3.361	ug/l #	68
76) 1,2,3-Trichloropropane	12.64	75	179760	52.643	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.97	105	70001	3.097	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.64	75	179760	117.508	ug/l #	13
85) sec-Butylbenzene	13.61	105	153934	5.682	ug/l #	55
89) n-Butylbenzene	13.82	91	32223	1.421	ug/l #	1
90) Hexachloroethane	14.13	117	17559	3.354	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	14.54	75	1039	1.456	ug/l #	8
95) Naphthalene	15.41	128	3357	4.546	ug/l #	69

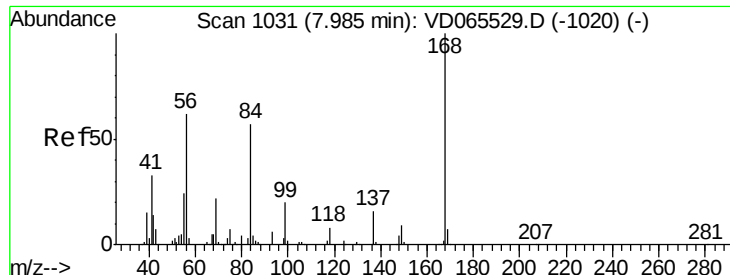
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD065545.D

Acq: 27 Mar 2020 15:43

Instrument :

MSVOA_D

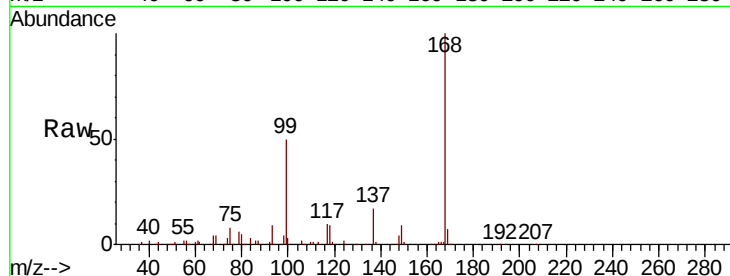
ClientSampleId :

Tot Ion:168 Resp: 461773

Ion Ratio Lower Upper

168 100

99 50.2 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

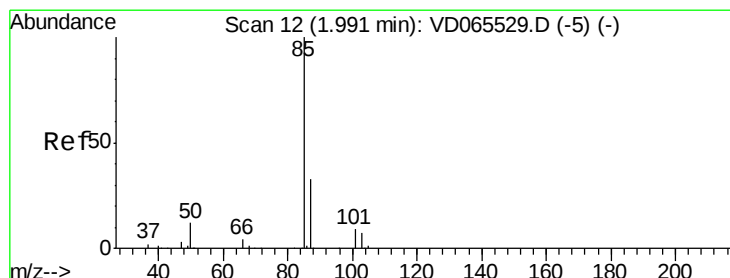
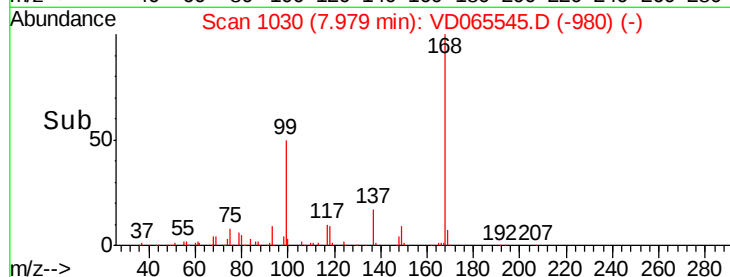
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065545.D

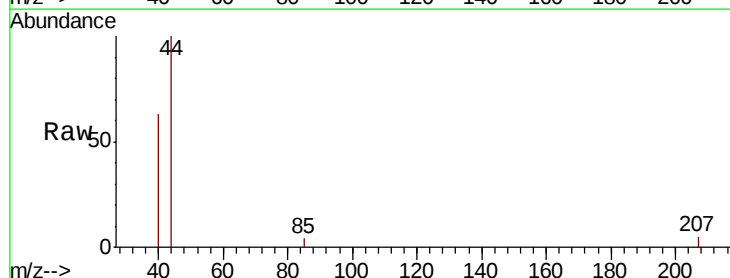
Acq: 27 Mar 2020 15:43

Tgt Ion: 85 Resp: 153

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.2#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

300

250

200

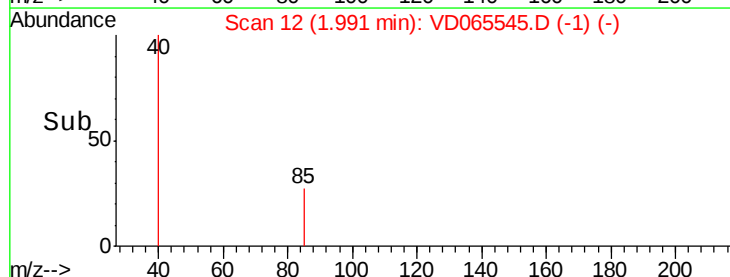
150

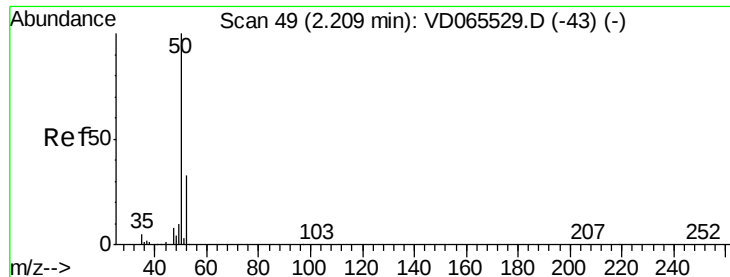
100

50

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065545.D

Acq: 27 Mar 2020 15:43

Instrument :

MSVOA_D

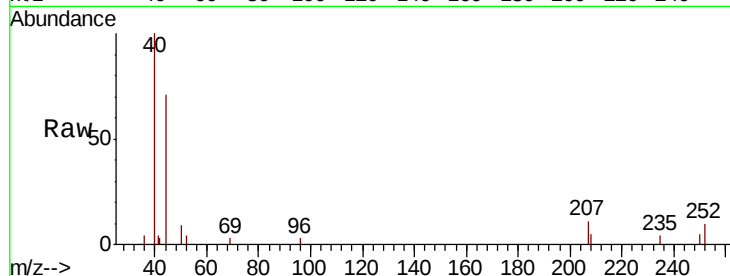
ClientSampleId :

Tot Ion: 50 Resp: 468

Ion Ratio Lower Upper

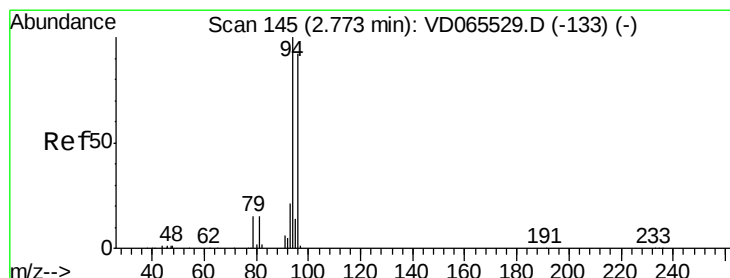
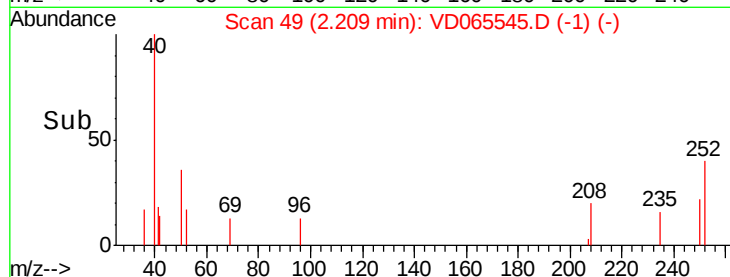
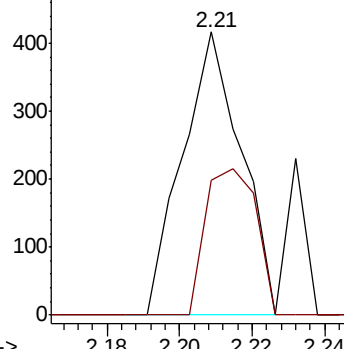
50 100

52 47.5 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD065545.D

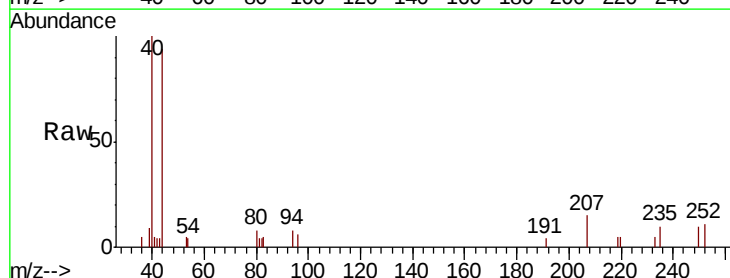
Acq: 27 Mar 2020 15:43

Tgt Ion: 94 Resp: 235

Ion Ratio Lower Upper

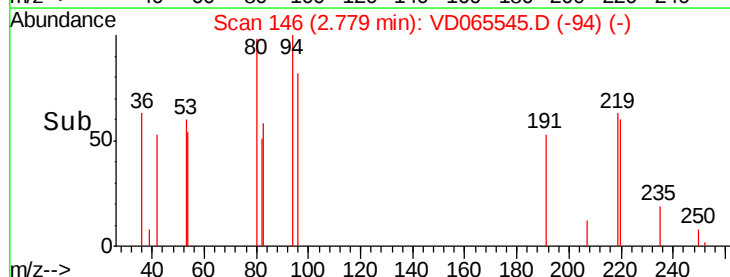
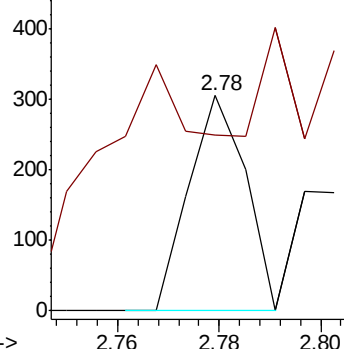
94 100

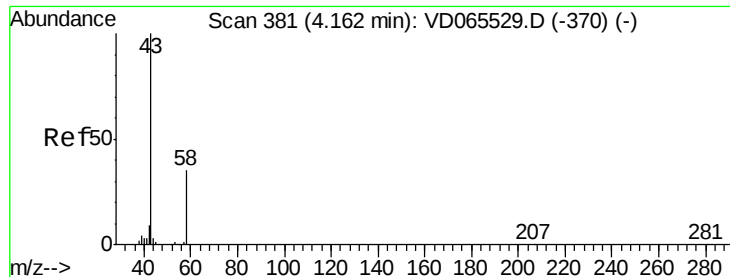
96 0.7 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#16

Acetone

Concen: 2.038 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD065545.D

Acq: 27 Mar 2020 15:43

Instrument :

MSVOA_D

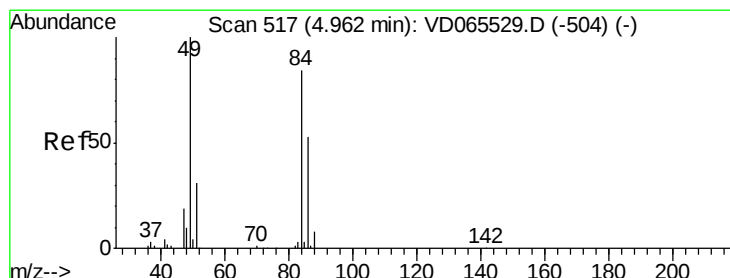
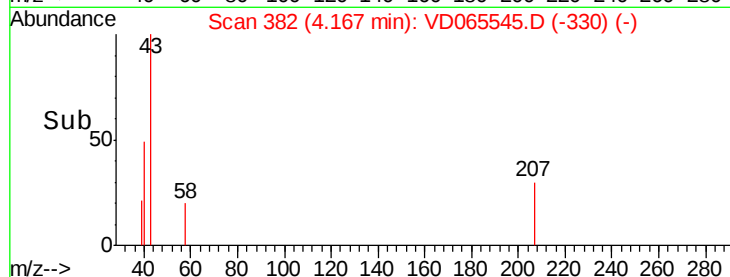
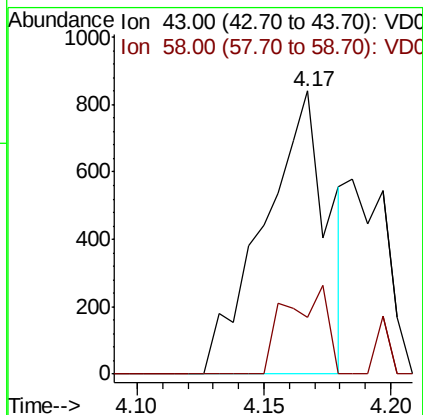
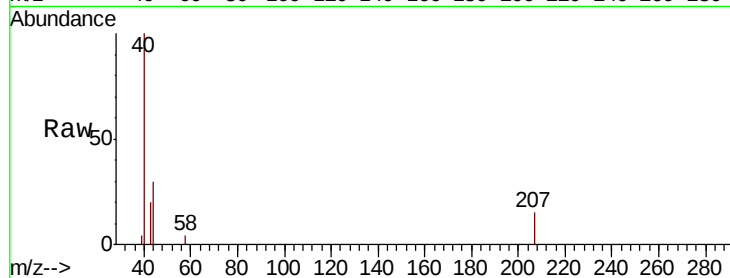
ClientSampleId :

Tot Ion: 43 Resp: 1478

Ion Ratio Lower Upper

43 100

58 20.0 27.9 41.9#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD065545.D

Acq: 27 Mar 2020 15:43

Tgt Ion: 84 Resp: 7908

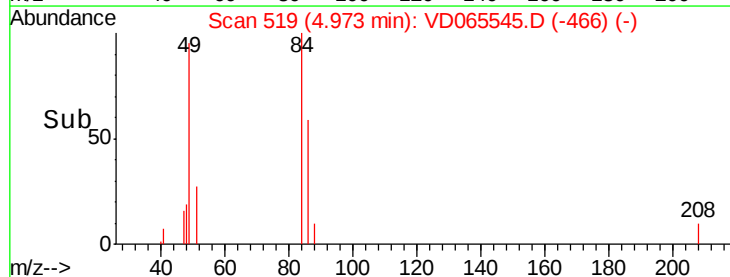
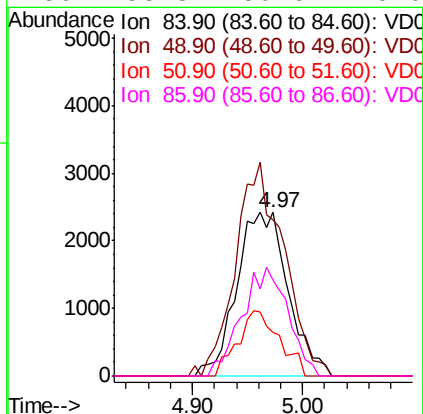
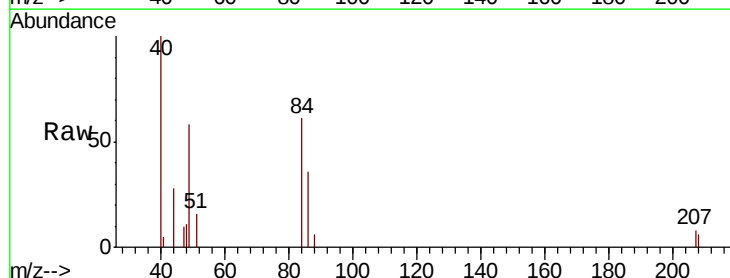
Ion Ratio Lower Upper

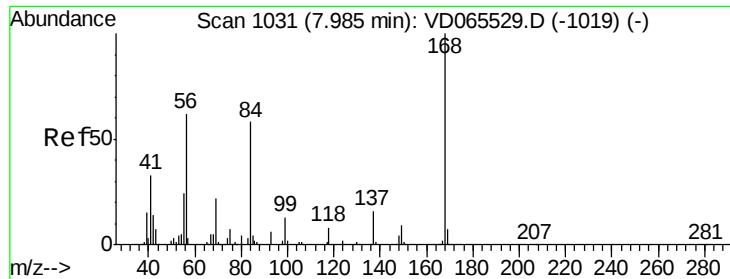
84 100

49 95.3 95.6 143.4#

51 26.6 29.4 44.2#

86 58.8 50.6 76.0

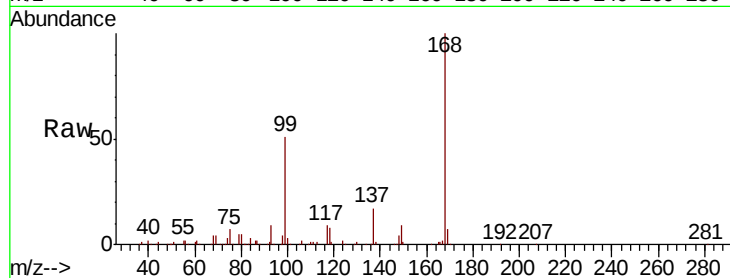




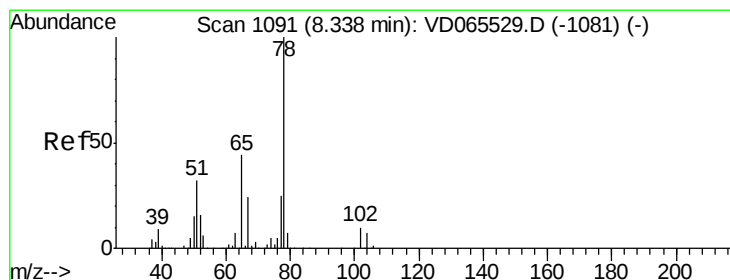
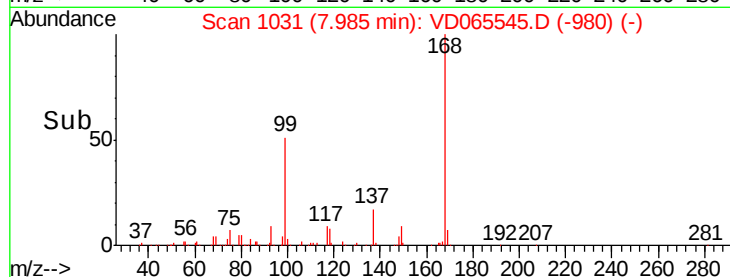
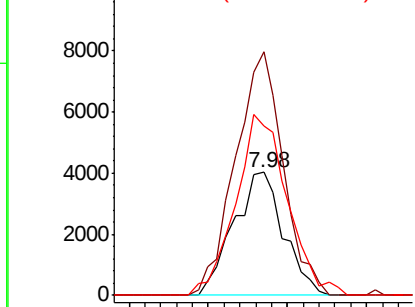
#31
Cyclohexane
Concen: 1.218 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065545.D
Acq: 27 Mar 2020 15:43

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 8798
Ion Ratio Lower Upper
56 100
69 198.2 28.2 42.4#
84 137.4 73.4 110.0#

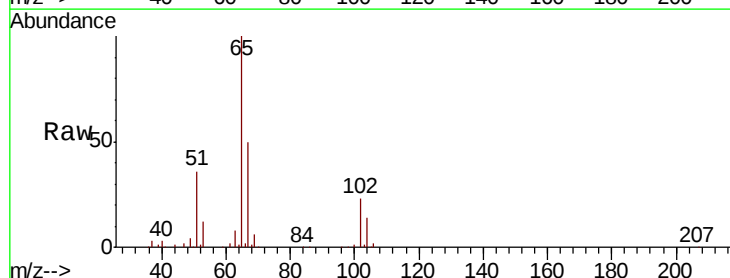


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

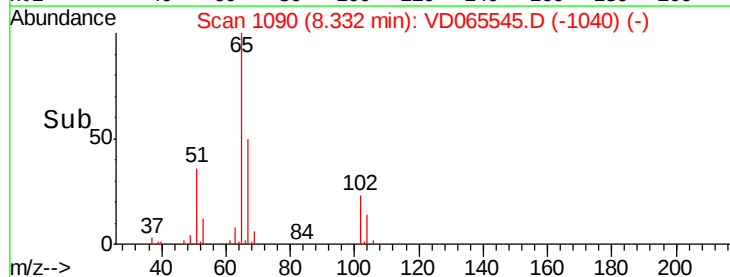
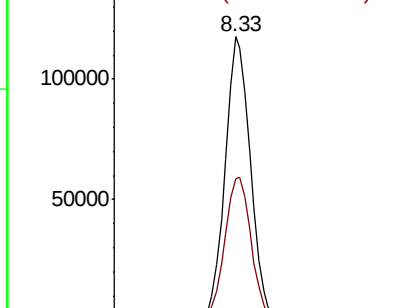


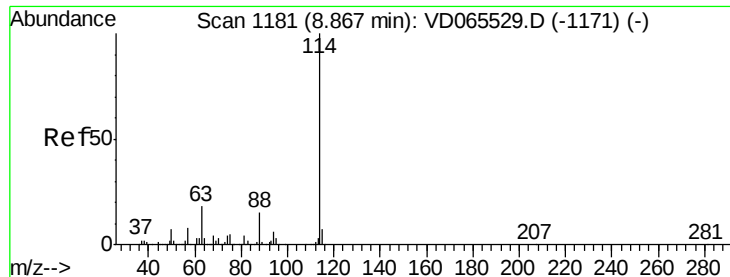
#33
1,2-Dichloroethane-d4
Concen: 67.657 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD065545.D
Acq: 27 Mar 2020 15:43

Tgt Ion: 65 Resp: 260068
Ion Ratio Lower Upper
65 100
67 52.4 0.0 107.6



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

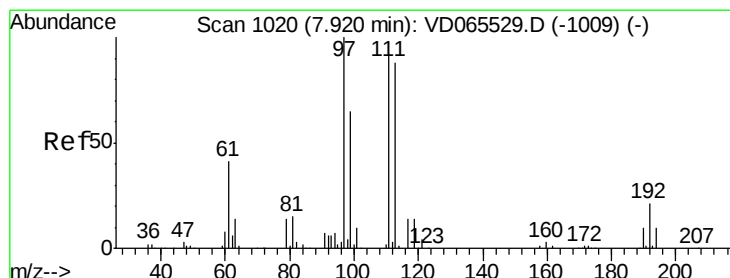
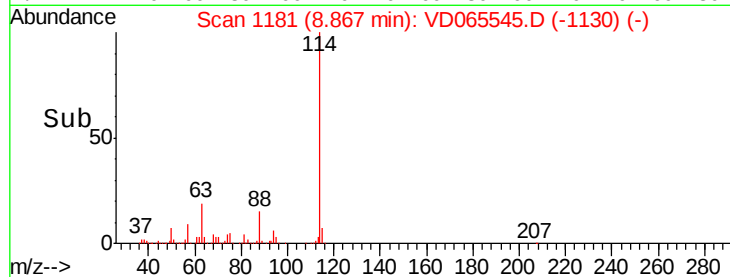
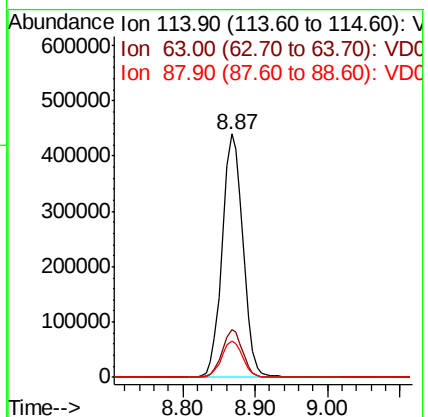
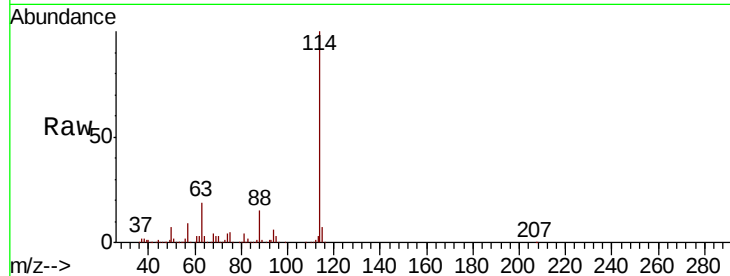




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065545.D
 Acq: 27 Mar 2020 15:43

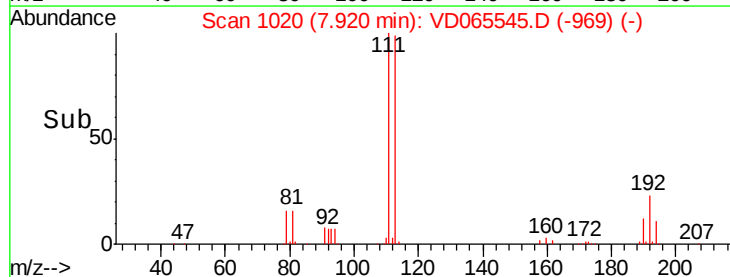
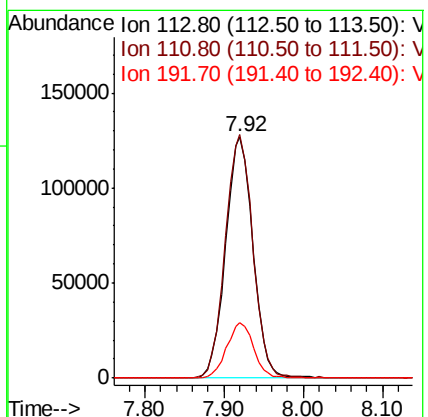
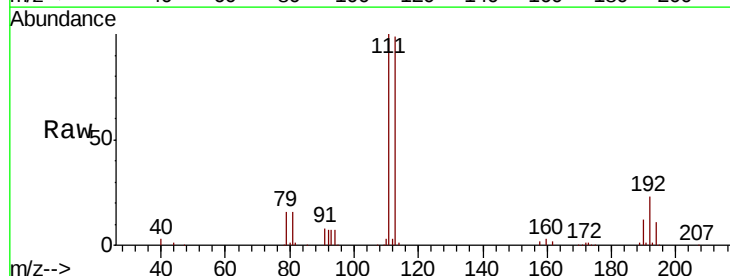
Instrument :
 MSVOA_D
 ClientSampleID :

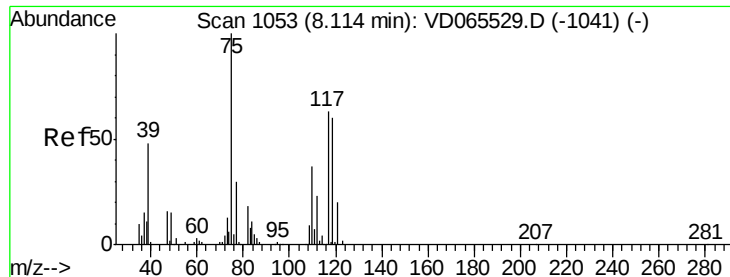
Tot Ion:114 Resp: 879993
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 37.0
 88 15.1 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 55.683 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD065545.D
 Acq: 27 Mar 2020 15:43

Tgt Ion:113 Resp: 302452
 Ion Ratio Lower Upper
 113 100
 111 101.7 83.3 124.9
 192 22.6 18.5 27.7





#36

1,1-Dichloropropene

Concen: 4.076 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD065545.D

Acq: 27 Mar 2020 15:43

Instrument :
MSVOA_D
ClientSampleId :

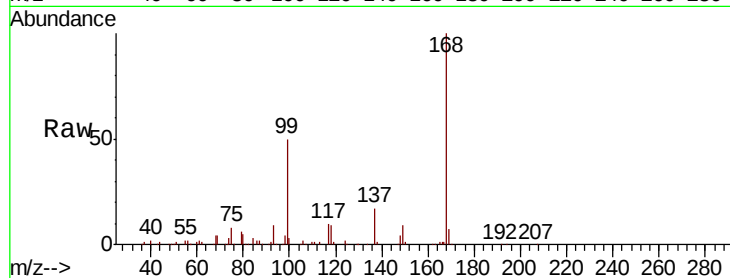
Tot Ion: 75 Resp: 32770

Ion Ratio Lower Upper

75 100

110 8.5 18.8 56.4#

77 0.0 25.1 37.7#



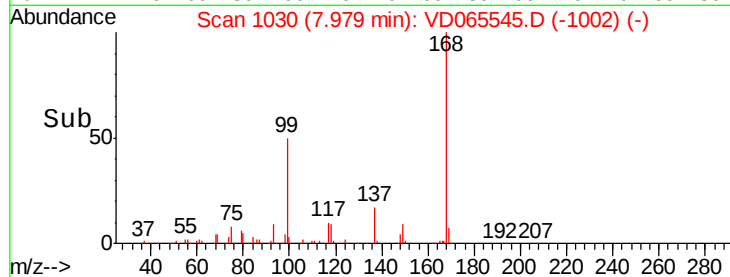
Abundance Ion 74.90 (74.60 to 75.60): VD065545.D (-1002) (-)

Ion 109.90 (109.60 to 110.60): VD065545.D (-1002) (-)

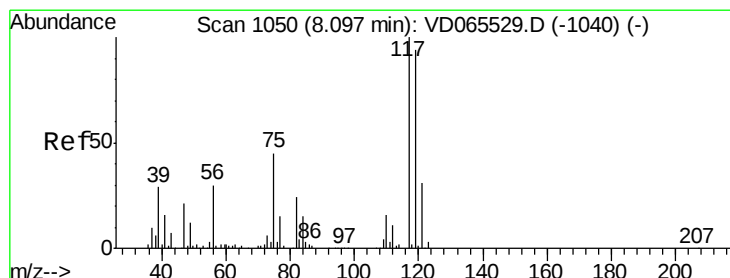
Ion 76.90 (76.60 to 77.60): VD065545.D (-1002) (-)

7.98

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 5.061 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD065545.D

Acq: 27 Mar 2020 15:43

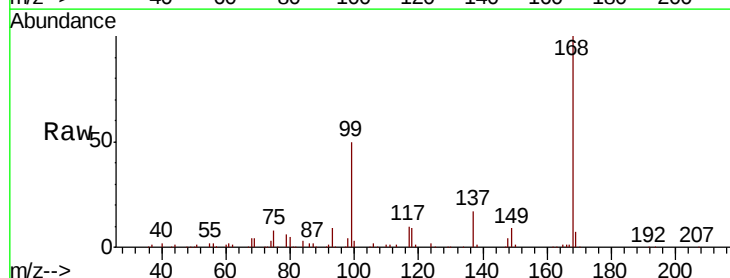
Tgt Ion: 117 Resp: 42859

Ion Ratio Lower Upper

117 100

119 6.8 75.2 112.8#

121 0.0 24.5 36.7#



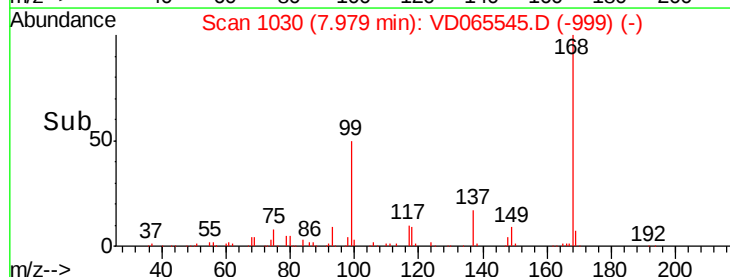
Abundance Ion 116.80 (116.50 to 117.50): VD065545.D (-999) (-)

Ion 118.80 (118.50 to 119.50): VD065545.D (-999) (-)

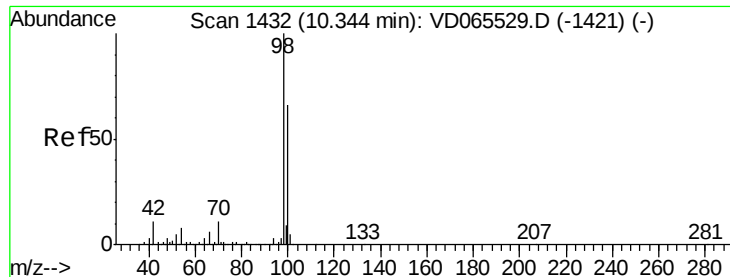
Ion 120.80 (120.50 to 121.50): VD065545.D (-999) (-)

7.98

Time-->



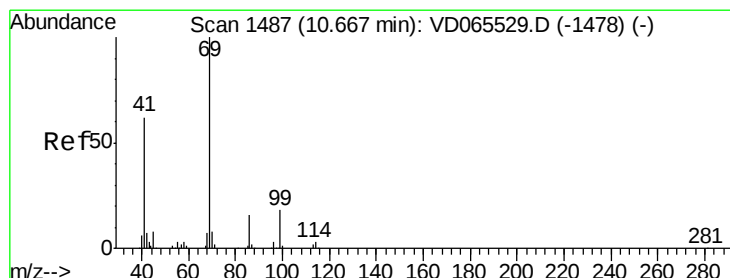
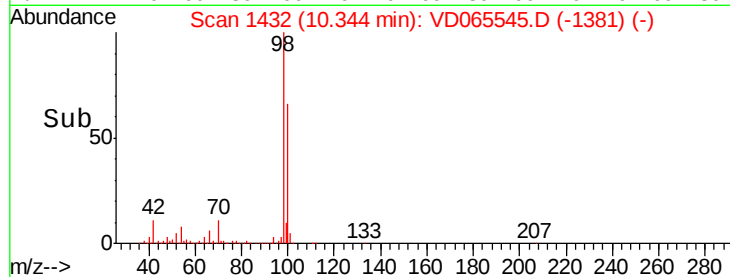
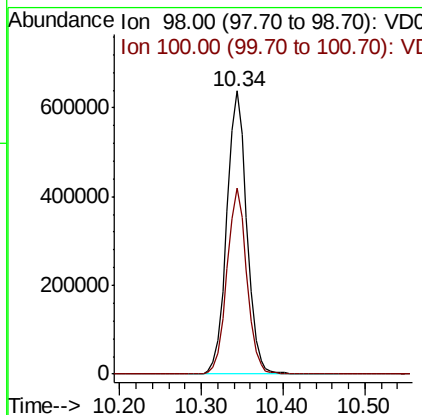
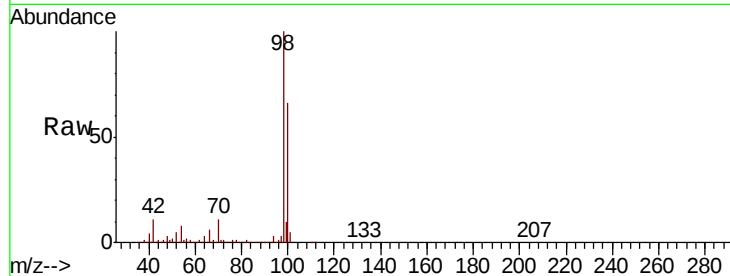
Time-->



#50
Toluene-d8
Concen: 53.331 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065545.D
Acq: 27 Mar 2020 15:43

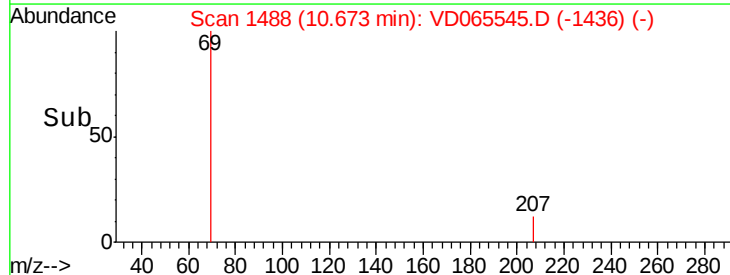
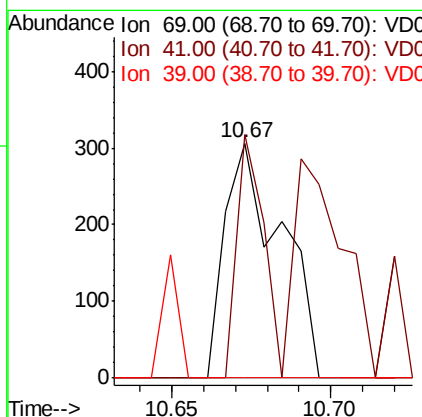
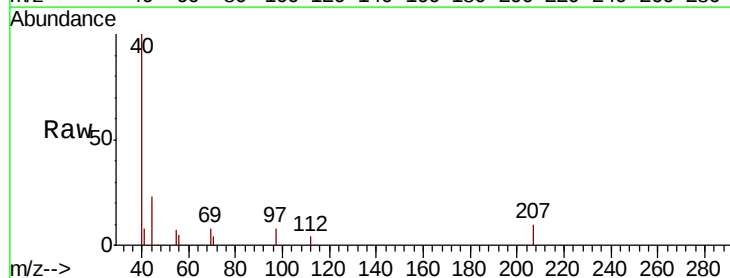
Instrument :
MSVOA_D
ClientSampleId :

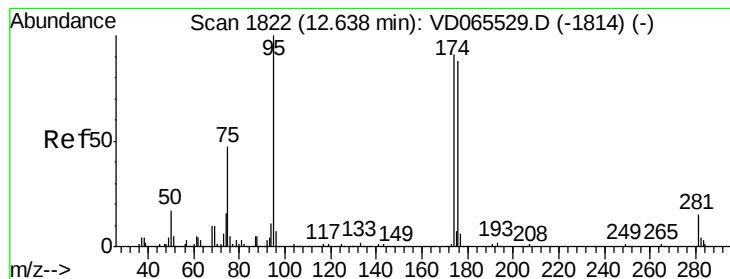
Tot Ion: 98 Resp: 1087542
Ion Ratio Lower Upper
98 100
100 65.2 52.2 78.2



#56
Ethyl methacrylate
Concen: 3.361 ug/l
RT: 10.67 min Scan# 1488
Delta R.T. 0.01 min
Lab File: VD065545.D
Acq: 27 Mar 2020 15:43

Tgt Ion: 69 Resp: 376
Ion Ratio Lower Upper
69 100
41 48.7 51.3 76.9#
39 0.0 25.3 37.9#





#62

4-Bromofluorobenzene

Concen: 57.391 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065545.D

Acq: 27 Mar 2020 15:43

Instrument :

MSVOA_D

ClientSampleId :

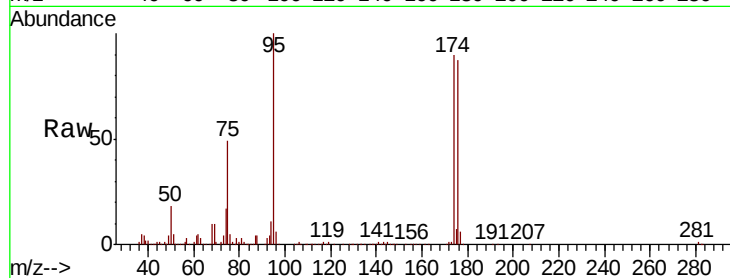
Tot Ion: 95 Resp: 371450

Ion Ratio Lower Upper

95 100

174 91.8 0.0 183.8

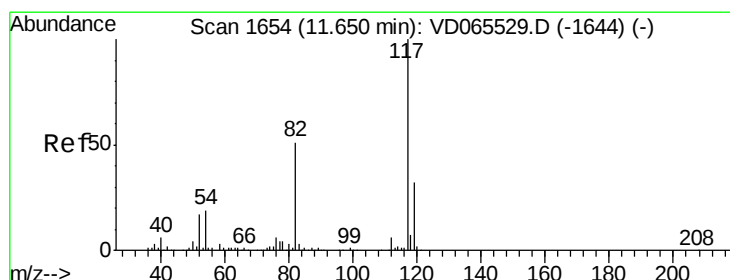
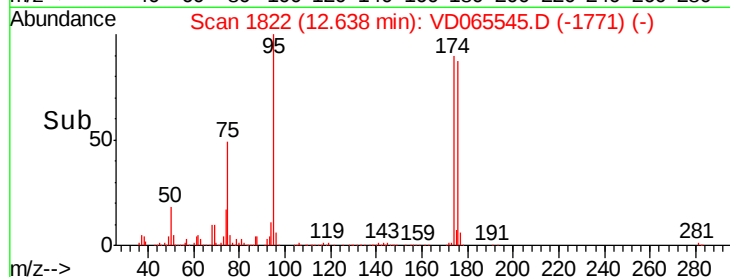
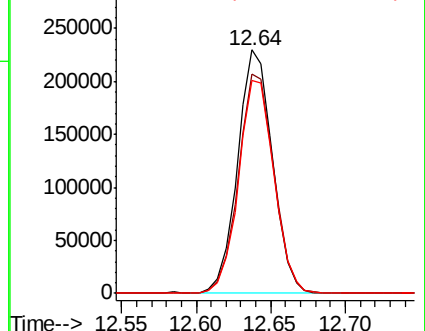
176 89.3 0.0 178.2



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: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD065545.D

Acq: 27 Mar 2020 15:43

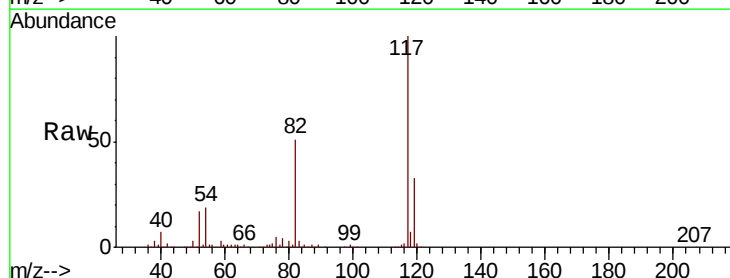
Tgt Ion: 117 Resp: 869280

Ion Ratio Lower Upper

117 100

82 51.5 41.0 61.6

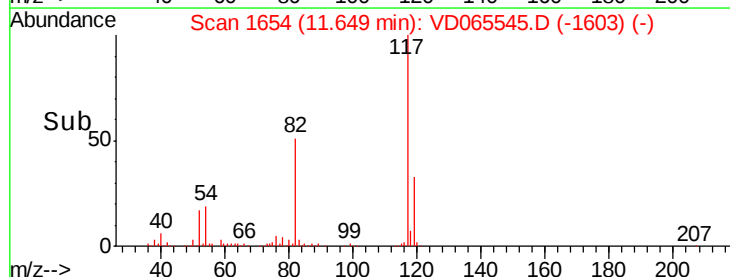
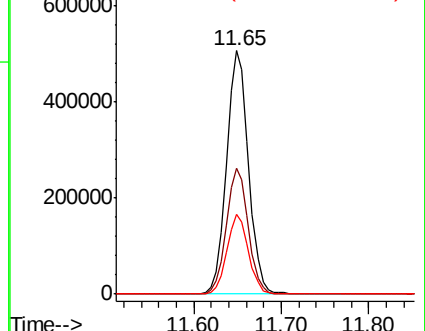
119 32.6 25.5 38.3

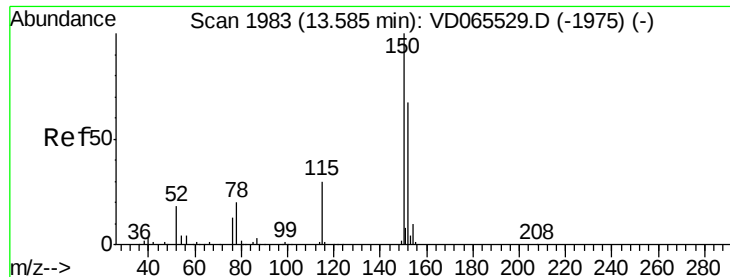


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



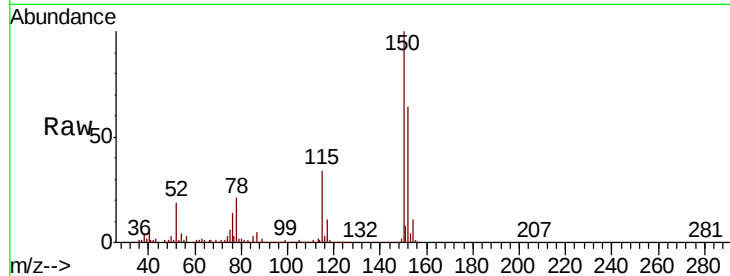


#72

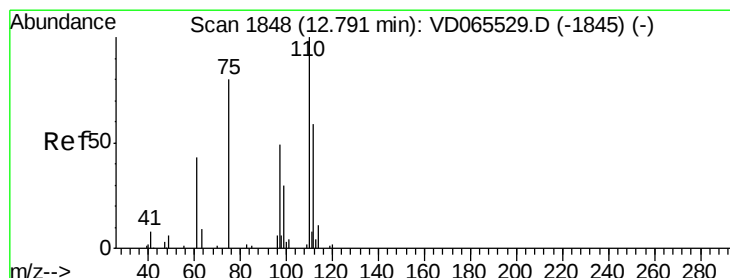
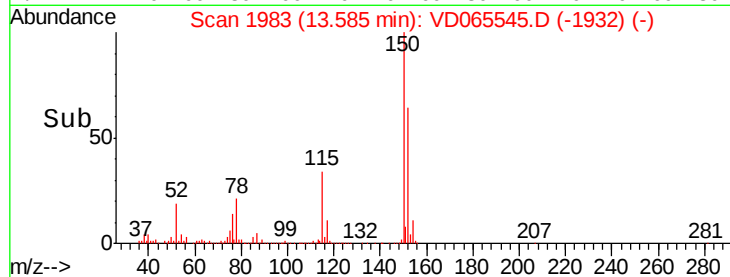
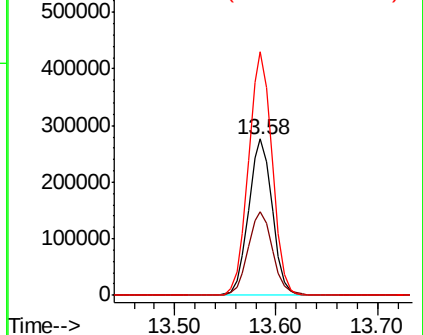
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065545.D
Acq: 27 Mar 2020 15:43

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:152 Resp: 444157
Ion Ratio Lower Upper
152 100
115 55.4 27.2 81.6
150 156.2 0.0 340.2



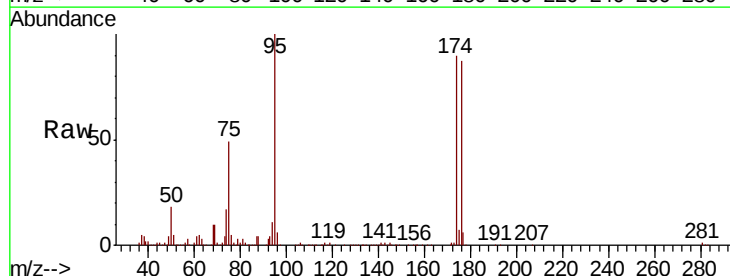
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



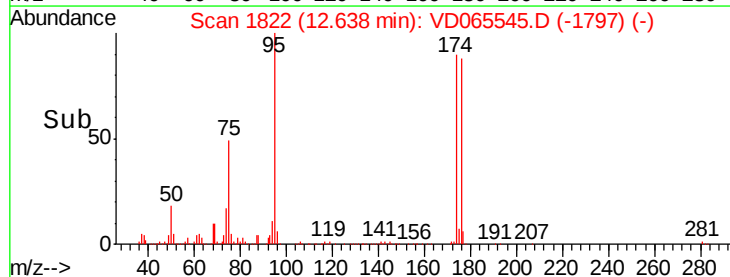
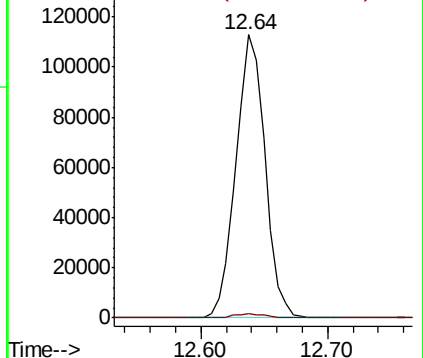
#76

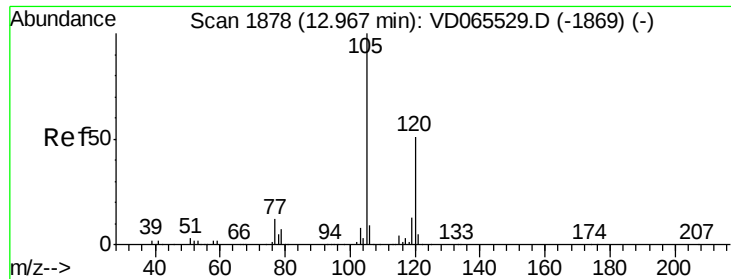
1,2,3-Trichloropropane
Concen: 52.643 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.15 min
Lab File: VD065545.D
Acq: 27 Mar 2020 15:43

Tgt Ion: 75 Resp: 179760
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 77.00 (76.70 to 77.70): VDC

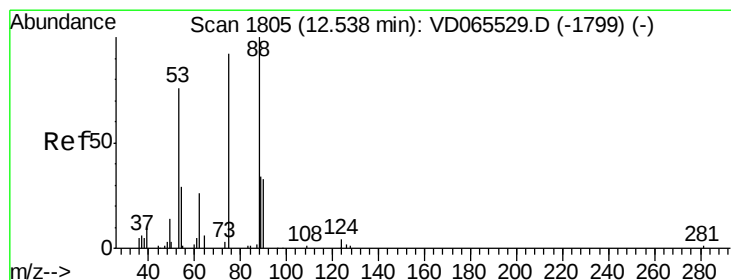
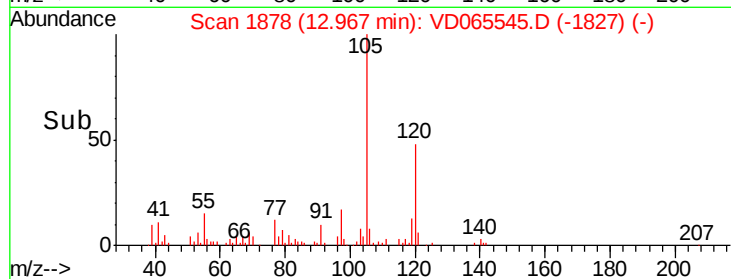
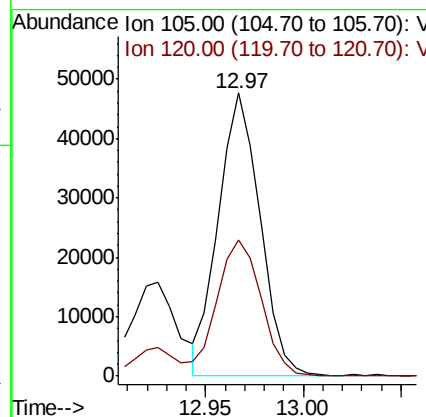
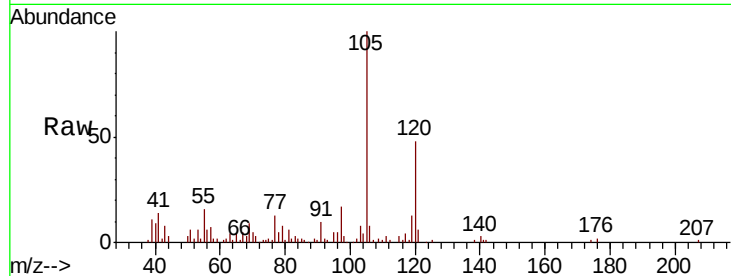




#80
 1,3,5-Trimethylbenzene
 Concen: 3.097 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. -0.00 min
 Lab File: VD065545.D
 Acq: 27 Mar 2020 15:43

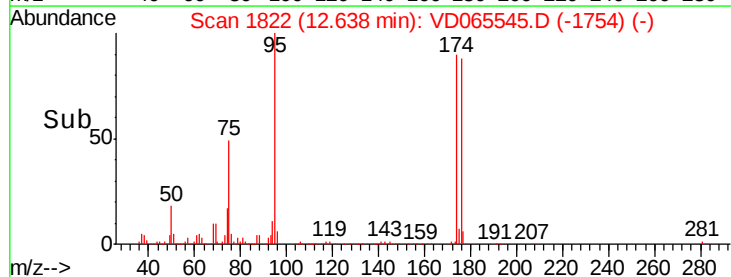
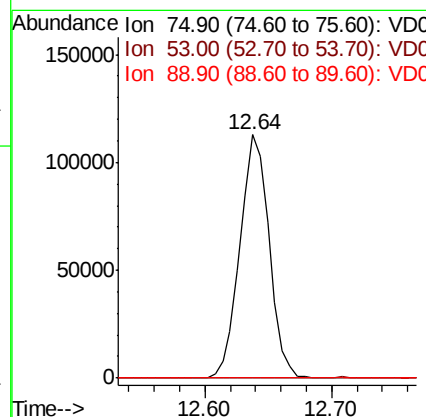
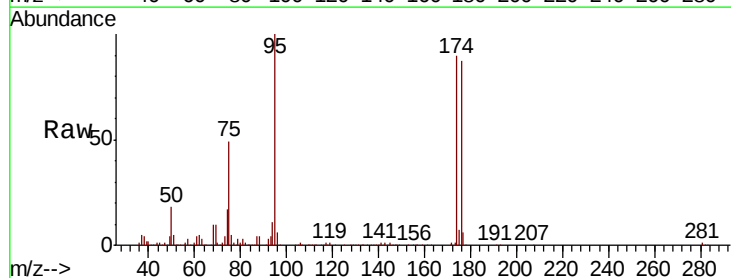
Instrument :
 MSVOA_D
 ClientSampleId :

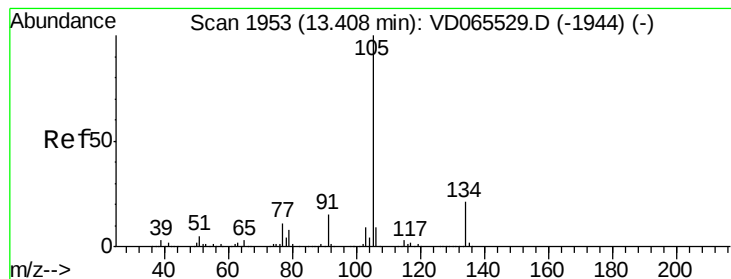
Tot Ion:105 Resp: 70001
 Ion Ratio Lower Upper
 105 100
 120 52.1 25.6 76.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 117.508 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.10 min
 Lab File: VD065545.D
 Acq: 27 Mar 2020 15:43

Tgt Ion: 75 Resp: 179760
 Ion Ratio Lower Upper
 75 100
 53 0.3 72.4 108.6#
 89 0.0 36.9 55.3#





#85

sec-Butylbenzene

Concen: 5.682 ug/l

RT: 13.61 min Scan# 1988

Delta R.T. 0.21 min

Lab File: VD065545.D

Acq: 27 Mar 2020 15:43

Instrument :

MSVOA_D

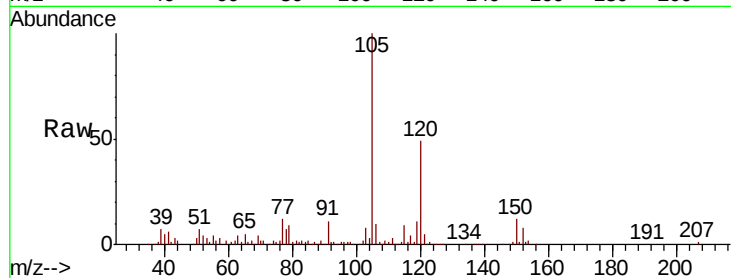
ClientSampleId :

Tot Ion:105 Resp: 153934

Ion Ratio Lower Upper

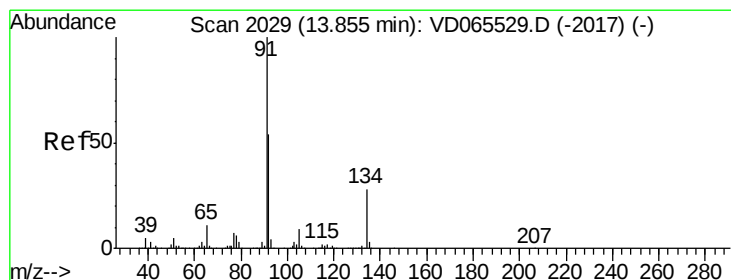
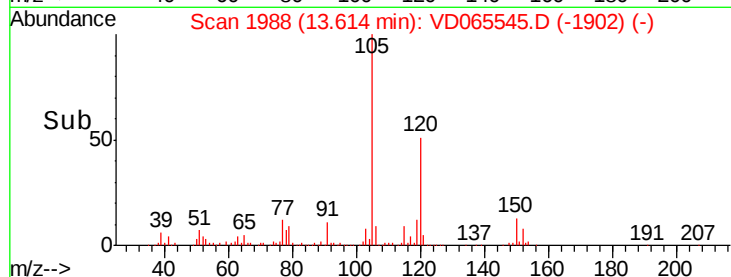
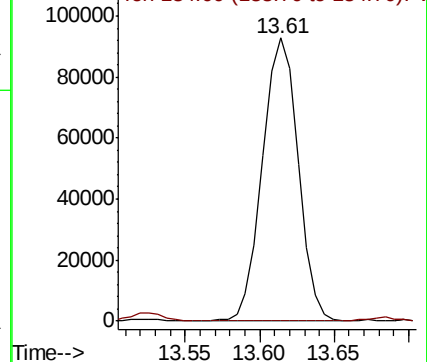
105 100

134 0.0 10.6 31.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#89

n-Butylbenzene

Concen: 1.421 ug/l

RT: 13.82 min Scan# 2023

Delta R.T. -0.04 min

Lab File: VD065545.D

Acq: 27 Mar 2020 15:43

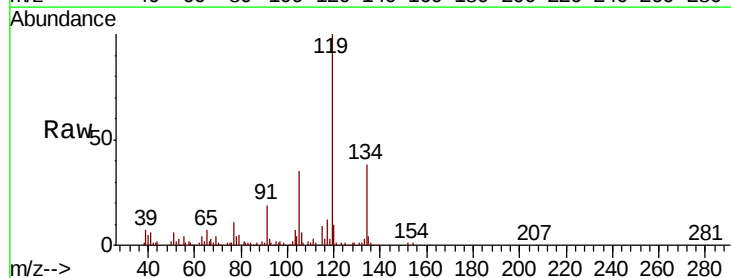
Tgt Ion: 91 Resp: 32223

Ion Ratio Lower Upper

91 100

92 5.4 26.8 80.4#

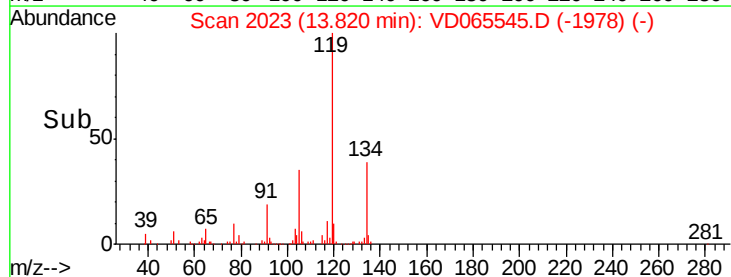
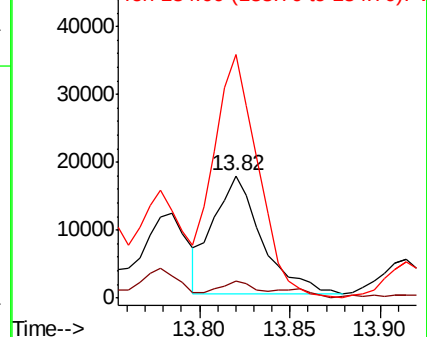
134 190.5 13.7 41.0#

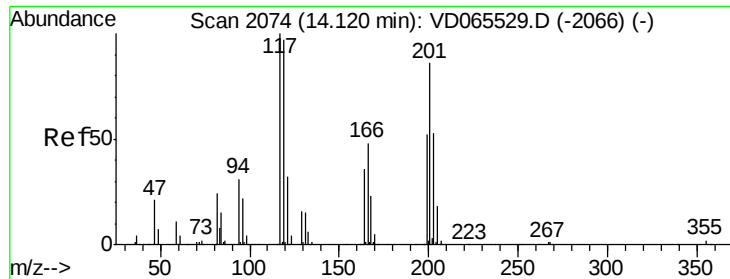


Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.00 (133.70 to 134.70): VDC





#90

Hexachloroethane

Concen: 3.354 ug/l

RT: 14.13 min Scan# 2076

Delta R.T. 0.01 min

Lab File: VD065545.D

Acq: 27 Mar 2020 15:43

Instrument :

MSVOA_D

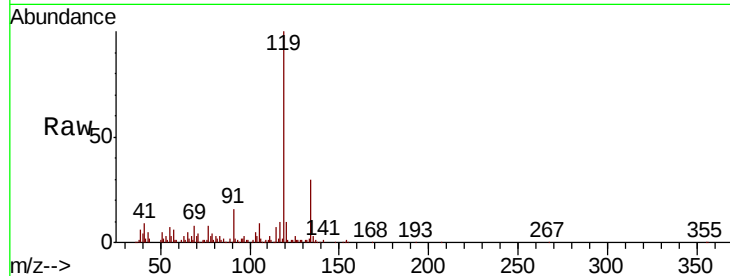
ClientSampleId :

Tot Ion:117 Resp: 17559

Ion Ratio Lower Upper

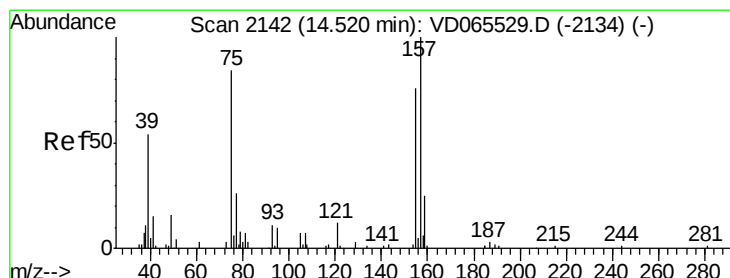
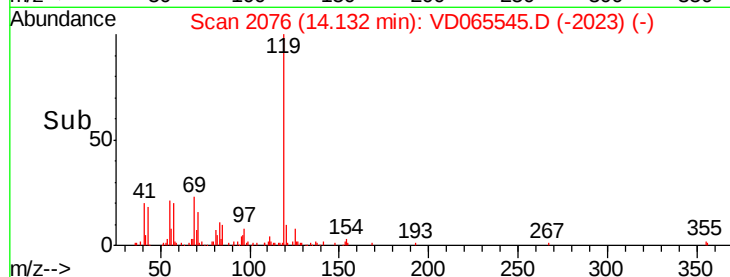
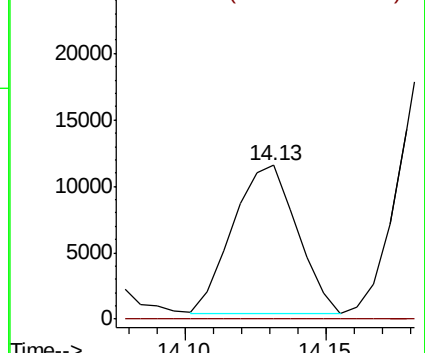
117 100

201 0.0 43.9 131.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.456 ug/l

RT: 14.54 min Scan# 2145

Delta R.T. 0.02 min

Lab File: VD065545.D

Acq: 27 Mar 2020 15:43

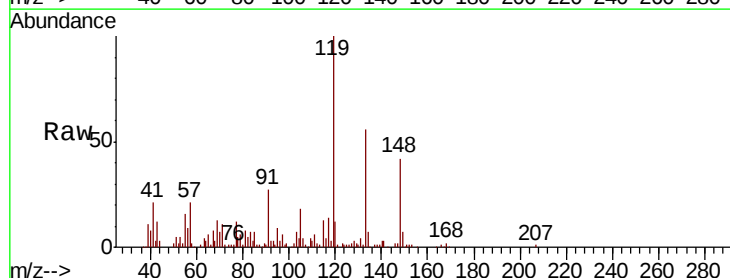
Tgt Ion: 75 Resp: 1039

Ion Ratio Lower Upper

75 100

155 21.2 46.2 138.6#

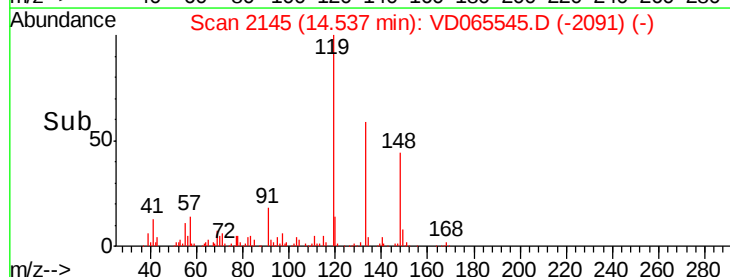
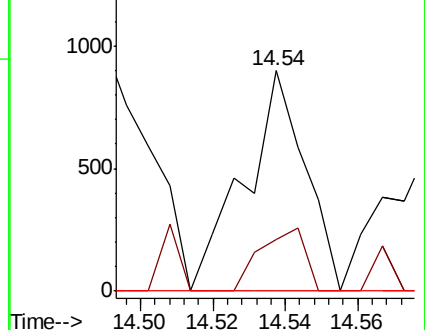
157 0.0 57.9 173.7#

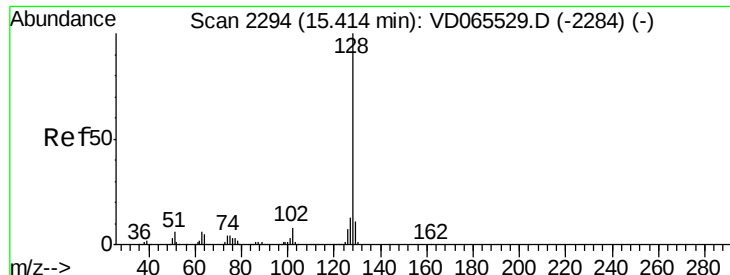


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

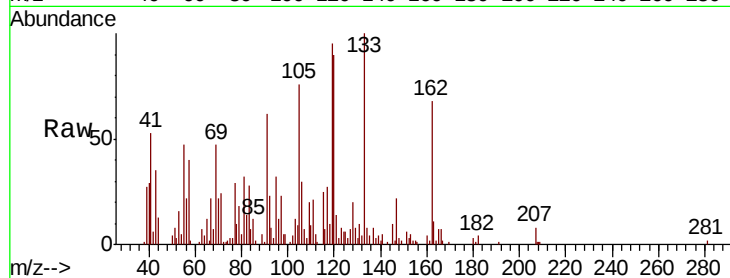




#95
Naphthalene
Concen: 4.546 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.01 min
Lab File: VD065545.D
Acq: 27 Mar 2020 15:43

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	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

