

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD033120\
 Data File : VD065565.D
 Acq On : 31 Mar 2020 14:50
 Operator : VA/SY
 Sample : L1759-16
 Misc : 7.72G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 01 05:54:31 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	7.99	168	440652	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	826748	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	860250	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	412856	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	254928	69.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	139.00%	
35) Dibromofluoromethane	7.92	113	284809	55.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.62%	
50) Toluene-d8	10.34	98	1029513	53.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.48%	
62) 4-Bromofluorobenzene	12.64	95	354911	58.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.74%	

Target Compounds

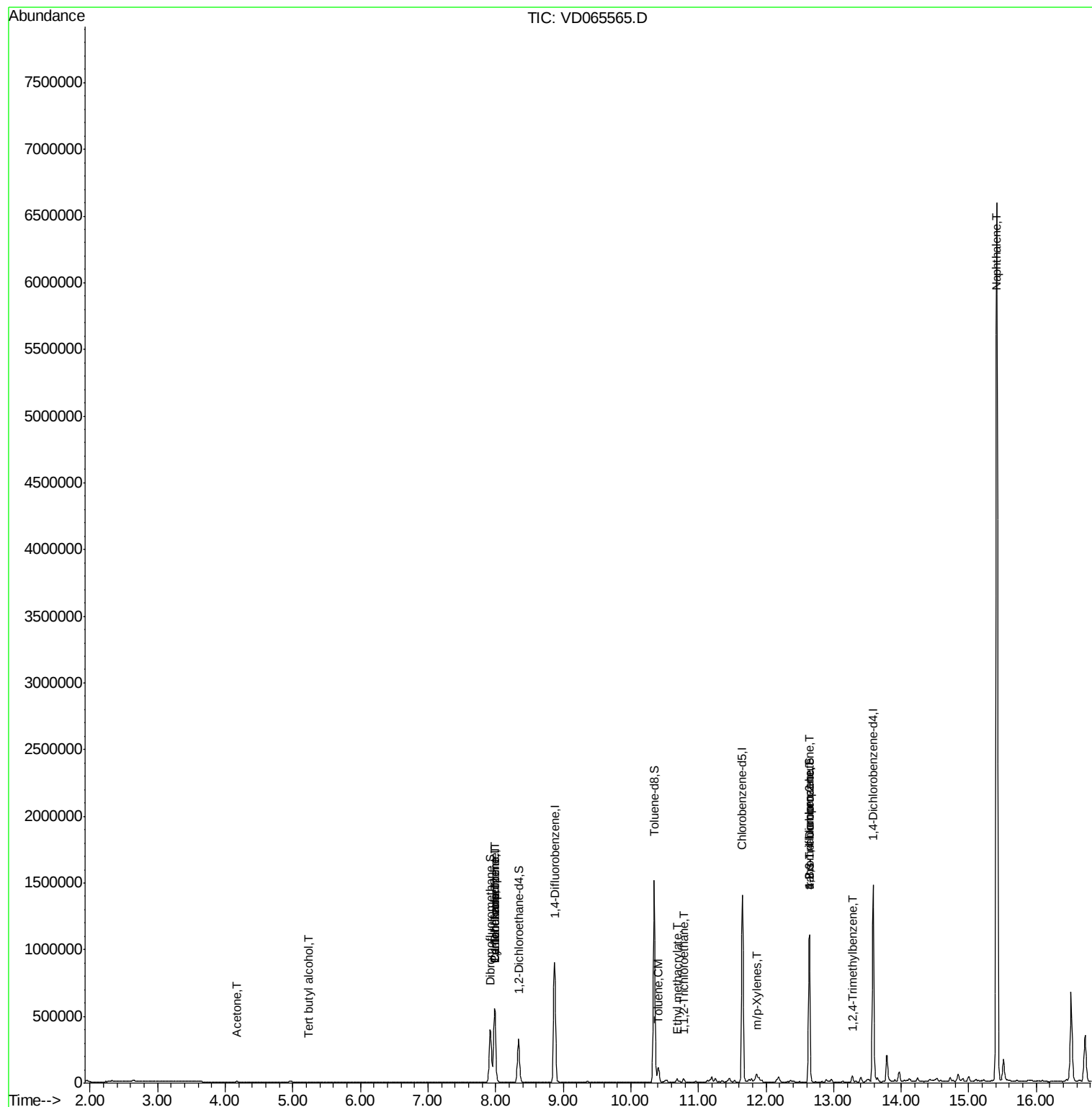
						Qvalue
2) Dichlorodifluoromethane	2.00	85	427	Below Cal	#	42
3) Chloromethane	2.21	50	905	Below Cal	#	76
5) Bromomethane	2.79	94	889	Below Cal		95
11) Tert butyl alcohol	5.24	59	537	2.603	ug/l #	73
16) Acetone	4.17	43	11788	17.032	ug/l	92
20) Methylene Chloride	4.97	84	6839	Below Cal		95
31) Cyclohexane	7.98	56	8845	1.283	ug/l #	29
36) 1,1-Dichloropropene	7.99	75	30271	4.007	ug/l #	48
38) Carbon Tetrachloride	7.99	117	40636	5.108	ug/l #	17
52) Toluene	10.41	92	45932	3.365	ug/l	100
55) 1,1,2-Trichloroethane	10.78	97	9560	2.439	ug/l #	21
56) Ethyl methacrylate	10.68	69	3490	3.974	ug/l #	28
68) m/p-Xylenes	11.86	106	12502	1.124	ug/l	93
76) 1,2,3-Trichloropropane	12.64	75	169410	53.373	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	169410	119.139	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.28	105	21761	1.036	ug/l	95
95) Naphthalene	15.41	128	5805751	420.242	ug/l	99

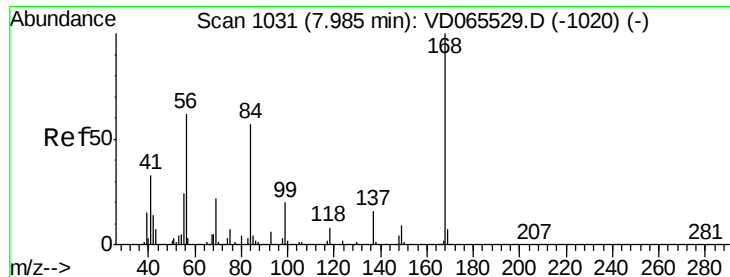
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 27 01:47:48 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065565.D

Acq: 31 Mar 2020 14:50

Instrument :

MSVOA_D

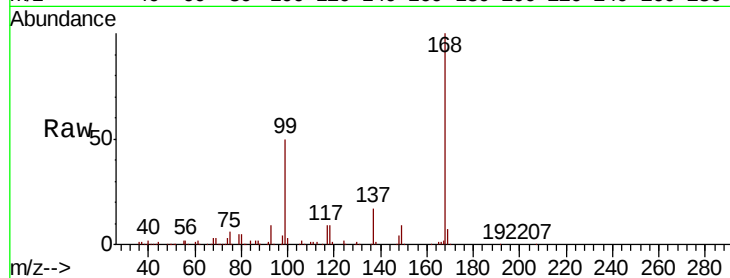
ClientSampleId :

Tot Ion:168 Resp: 440652

Ion Ratio Lower Upper

168 100

99 50.0 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

200000

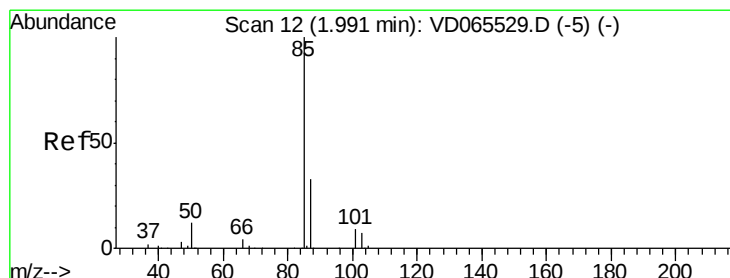
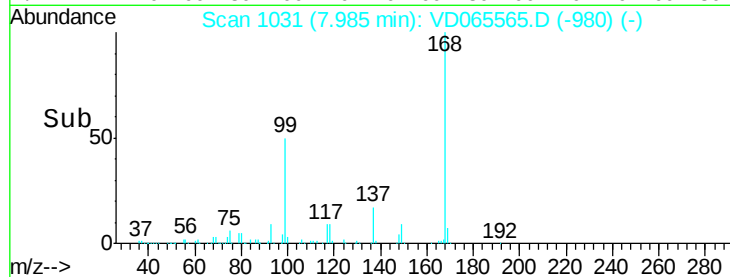
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 13

Delta R.T. 0.01 min

Lab File: VD065565.D

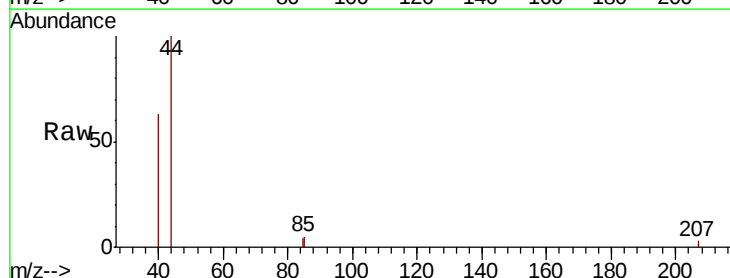
Acq: 31 Mar 2020 14:50

Tgt Ion: 85 Resp: 427

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

2.00

600

500

400

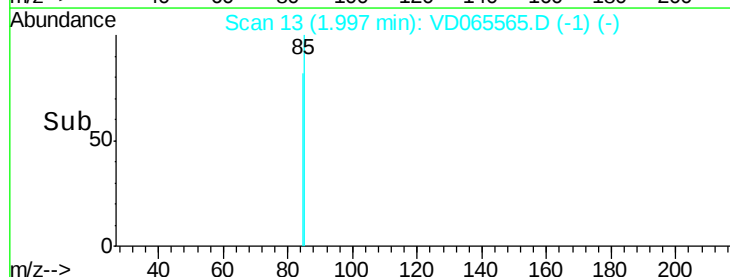
300

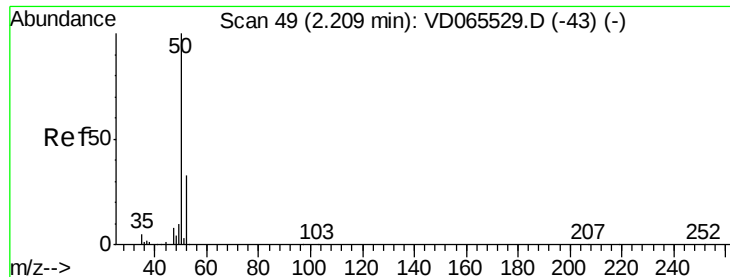
200

100

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VD065565.D

Acq: 31 Mar 2020 14:50

Instrument :

MSVOA_D

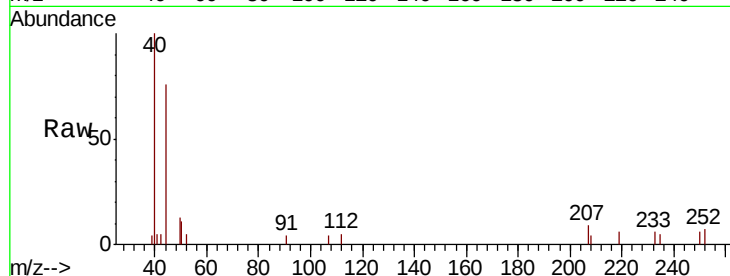
ClientSampleId :

Tot Ion: 50 Resp: 905

Ion Ratio Lower Upper

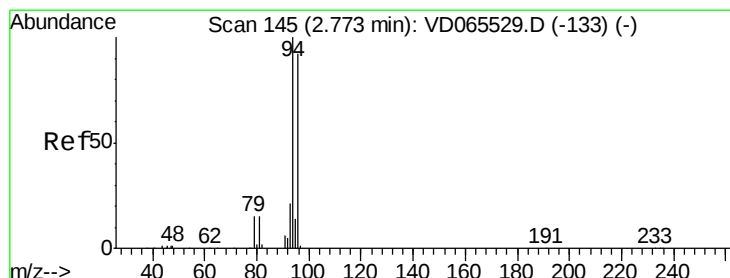
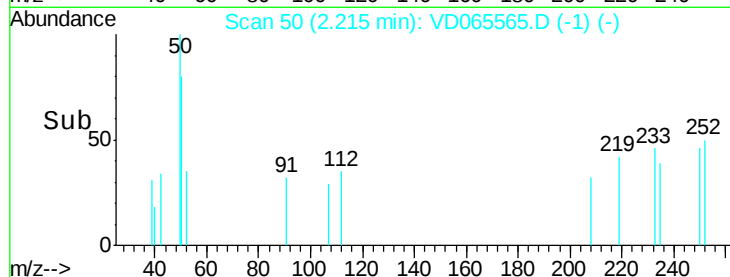
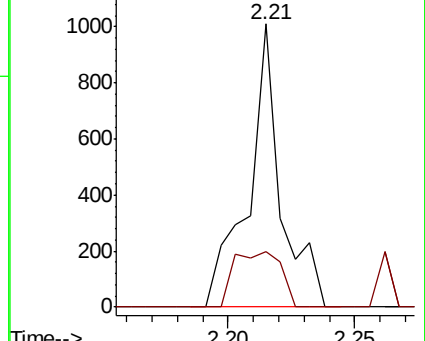
50 100

52 19.5 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: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD065565.D

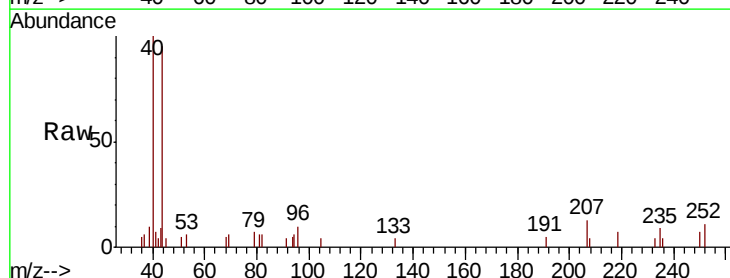
Acq: 31 Mar 2020 14:50

Tgt Ion: 94 Resp: 889

Ion Ratio Lower Upper

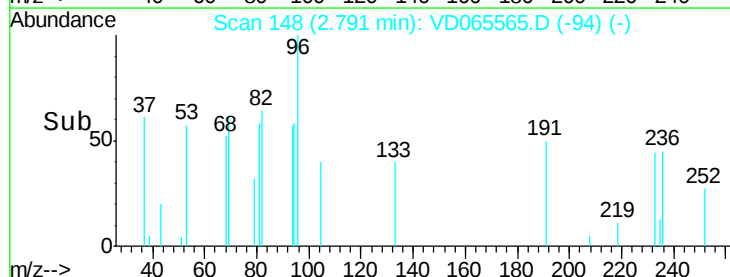
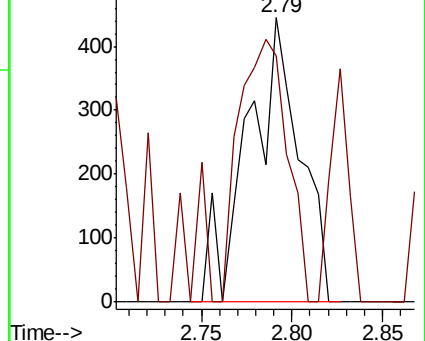
94 100

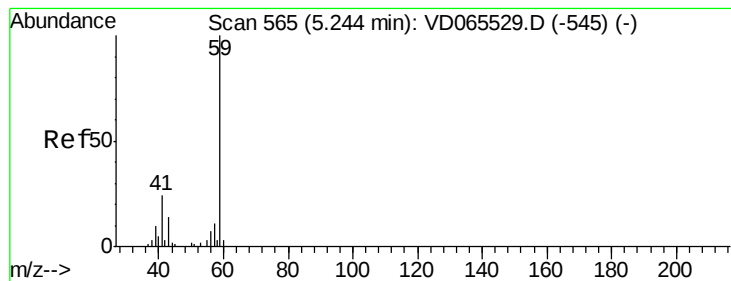
96 86.7 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



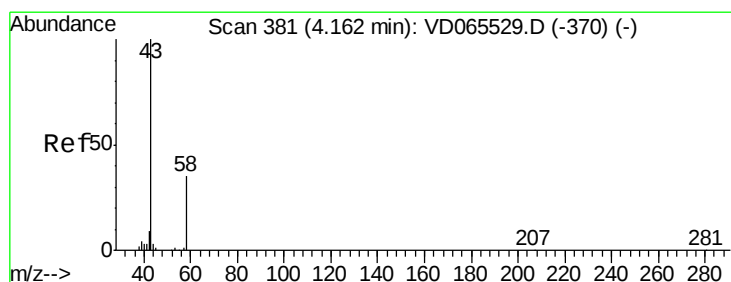
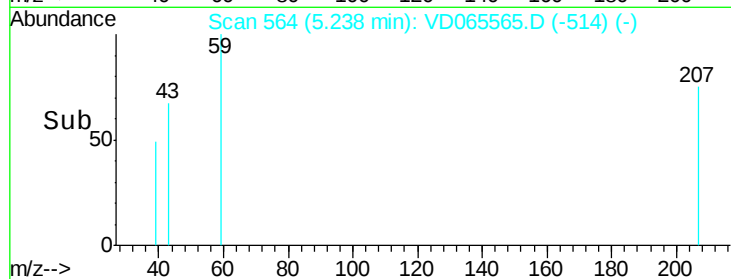
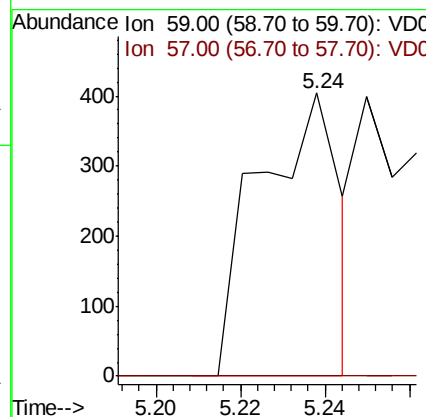
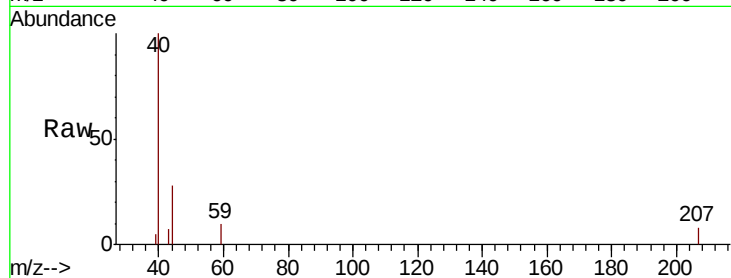


#11

Tert butyl alcohol
 Concen: 2.603 ug/l
 RT: 5.24 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: VD065565.D
 Acq: 31 Mar 2020 14:50

Instrument :
 MSVOA_D
 ClientSampleId :

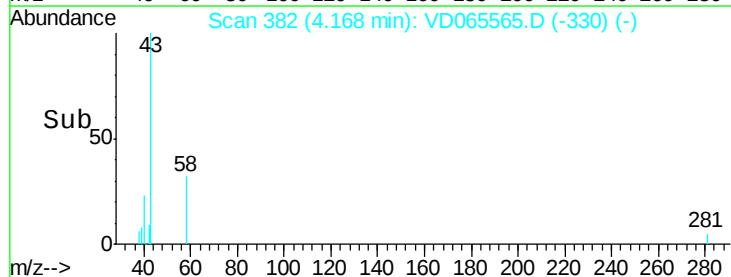
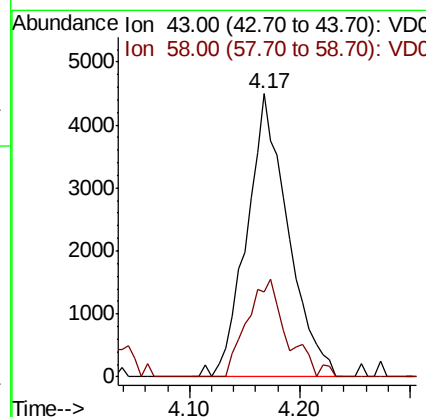
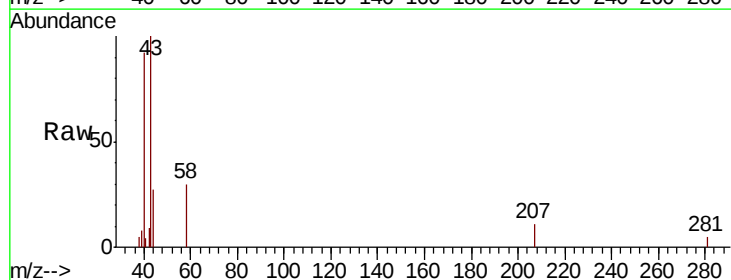
Tot Ion: 59 Resp: 537
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#

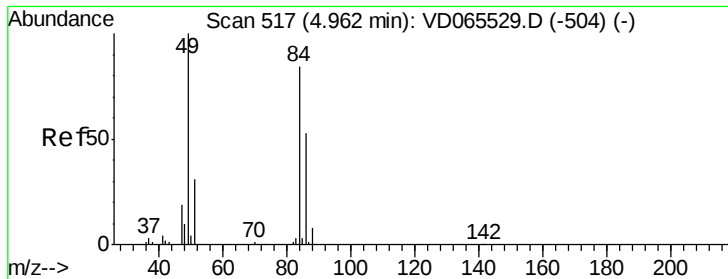


#16

Acetone
 Concen: 17.032 ug/l
 RT: 4.17 min Scan# 382
 Delta R.T. 0.01 min
 Lab File: VD065565.D
 Acq: 31 Mar 2020 14:50

Tgt Ion: 43 Resp: 11788
 Ion Ratio Lower Upper
 43 100
 58 30.2 27.9 41.9

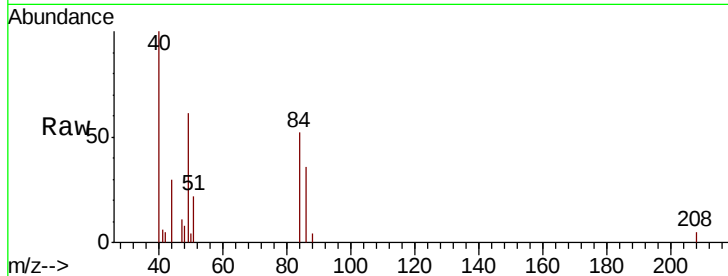




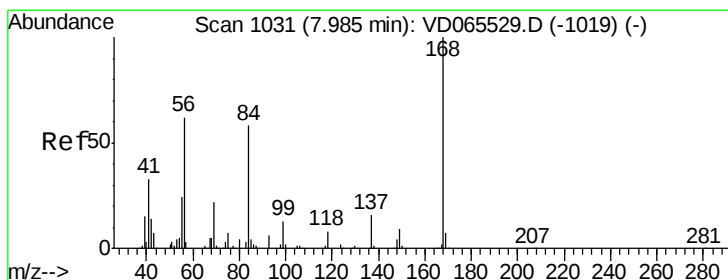
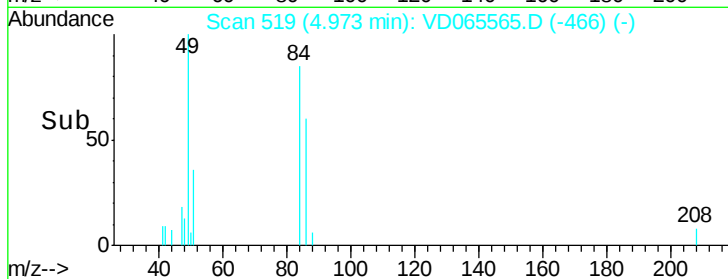
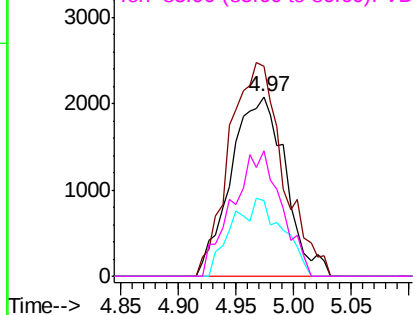
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD065565.D
Acq: 31 Mar 2020 14:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 6839
Ion Ratio Lower Upper
84 100
49 117.0 95.6 143.4
51 41.9 29.4 44.2
86 70.0 50.6 76.0

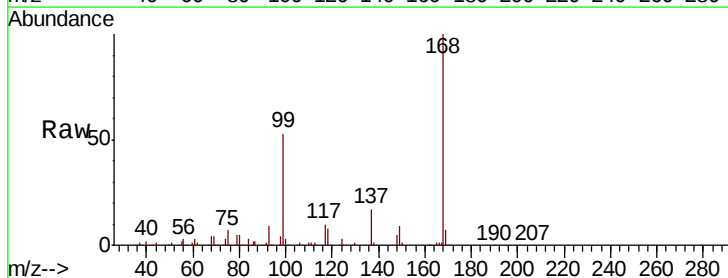


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

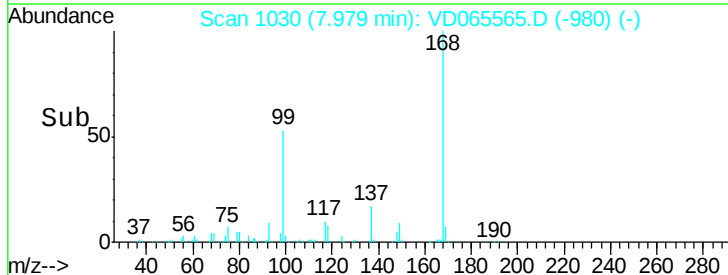
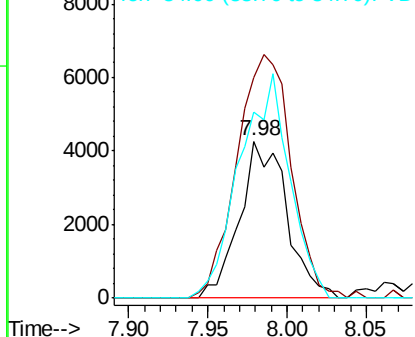


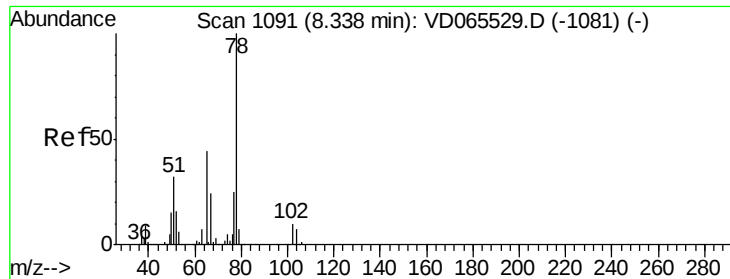
#31
Cyclohexane
Concen: 1.283 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD065565.D
Acq: 31 Mar 2020 14:50

Tgt Ion: 56 Resp: 8845
Ion Ratio Lower Upper
56 100
69 140.6 28.2 42.4#
84 118.7 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

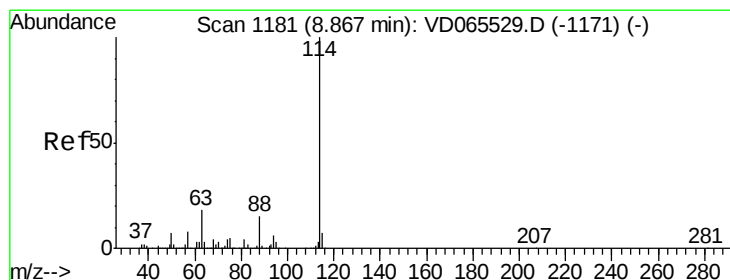
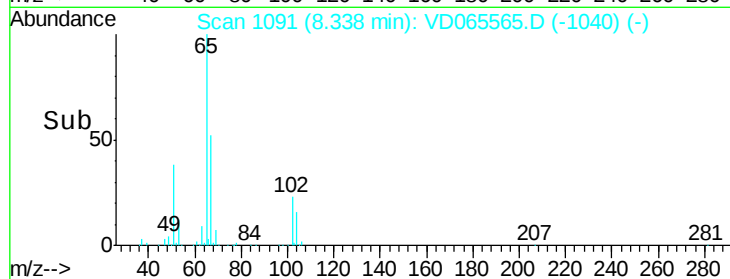
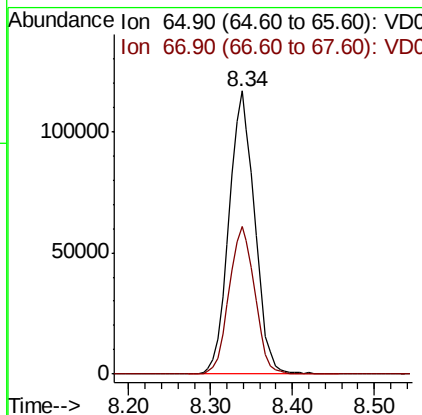
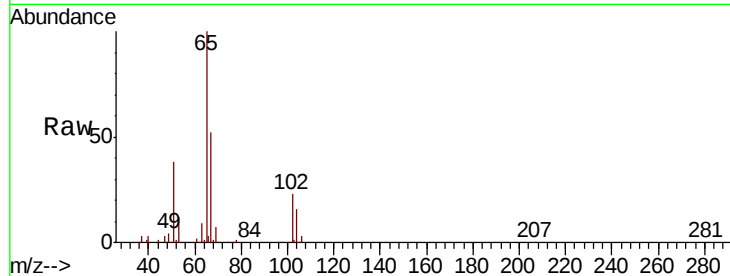




#33
 1,2-Dichloroethane-d4
 Concen: 69.498 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VD065565.D
 Acq: 31 Mar 2020 14:50

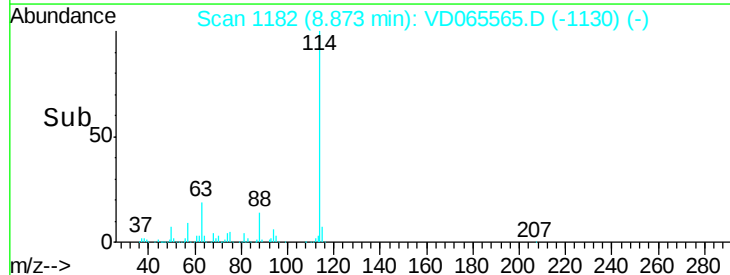
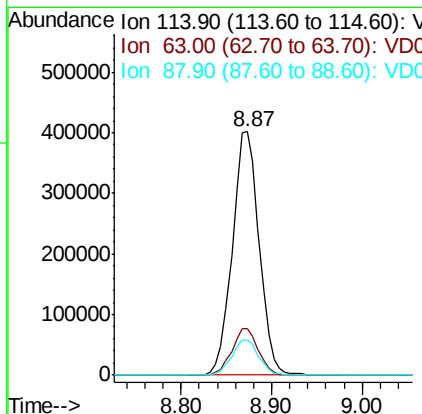
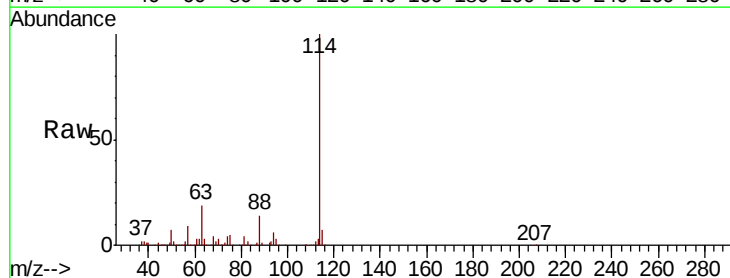
Instrument :
 MSVOA_D
 ClientSampled :

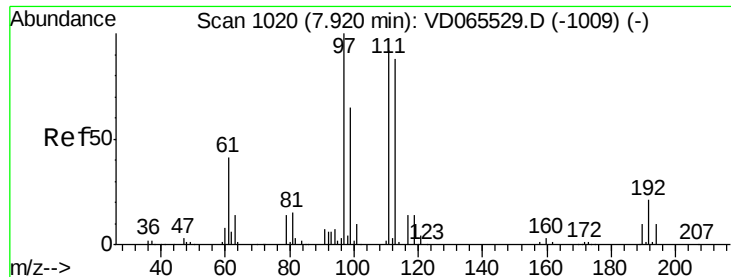
Tot Ion: 65 Resp: 254928
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1182
 Delta R.T. 0.01 min
 Lab File: VD065565.D
 Acq: 31 Mar 2020 14:50

Tgt Ion: 114 Resp: 826748
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 37.0
 88 14.5 0.0 30.4





#35

Dibromofluoromethane

Concen: 55.811 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD065565.D

Acq: 31 Mar 2020 14:50

Instrument :
MSVOA_D
ClientSampled :

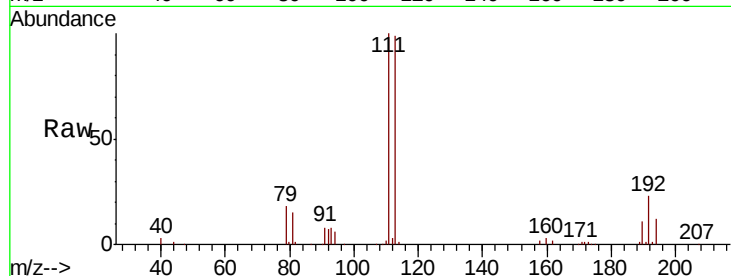
Tot Ion:113 Resp: 284809

Ion Ratio Lower Upper

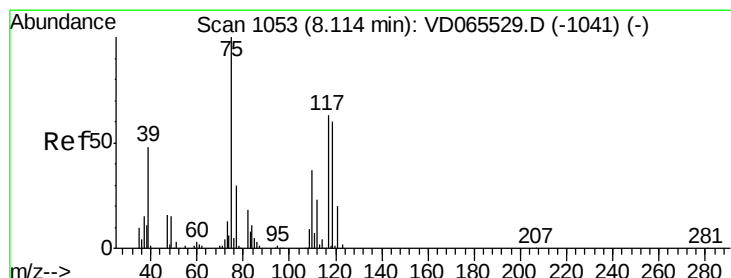
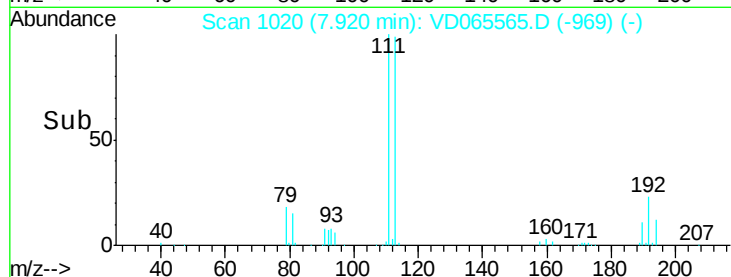
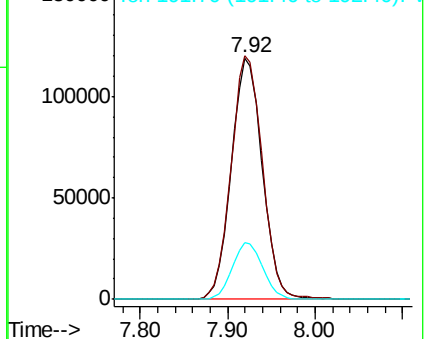
113 100

111 101.8 83.3 124.9

192 23.3 18.5 27.7



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: 4.007 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD065565.D

Acq: 31 Mar 2020 14:50

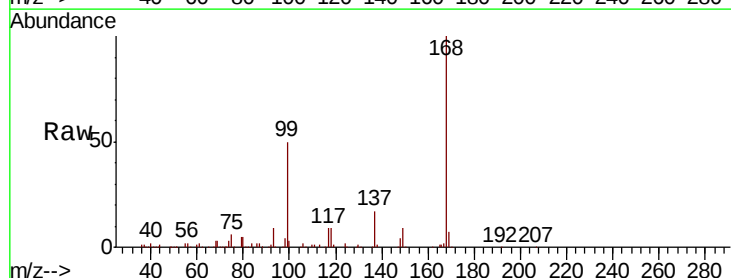
Tgt Ion: 75 Resp: 30271

Ion Ratio Lower Upper

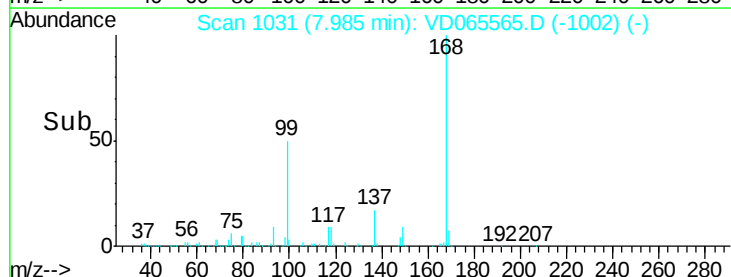
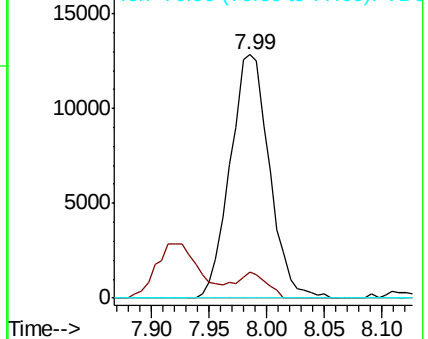
75 100

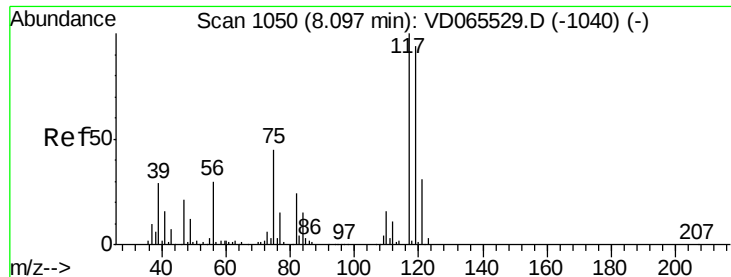
110 8.4 18.8 56.4#

77 0.0 25.1 37.7#



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

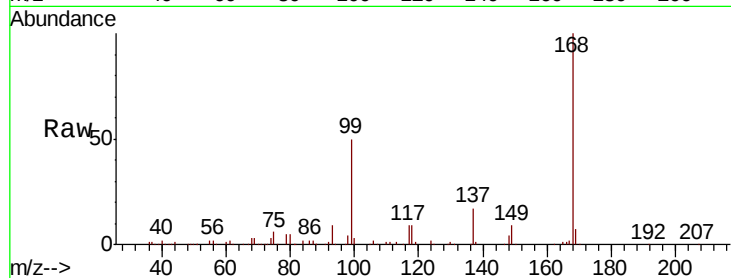




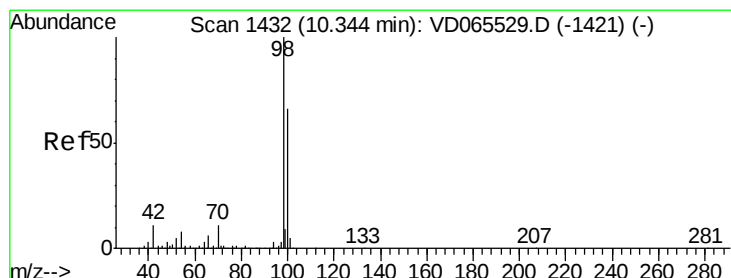
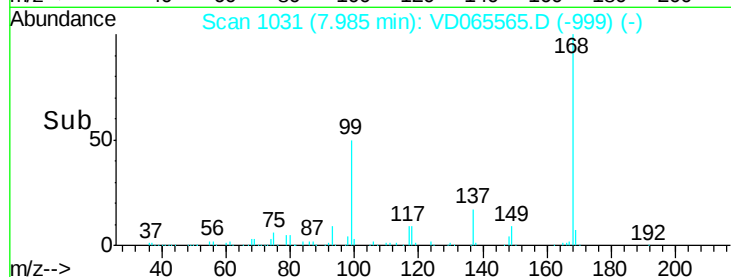
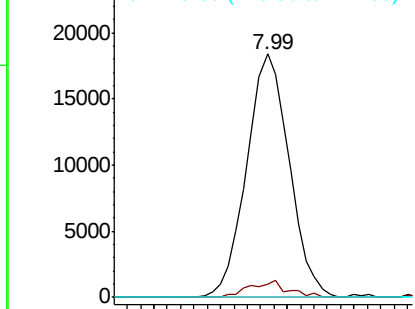
#38
Carbon Tetrachloride
Concen: 5.108 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD065565.D
Acq: 31 Mar 2020 14:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 40636
Ion Ratio Lower Upper
117 100
119 5.5 75.2 112.8#
121 0.0 24.5 36.7#

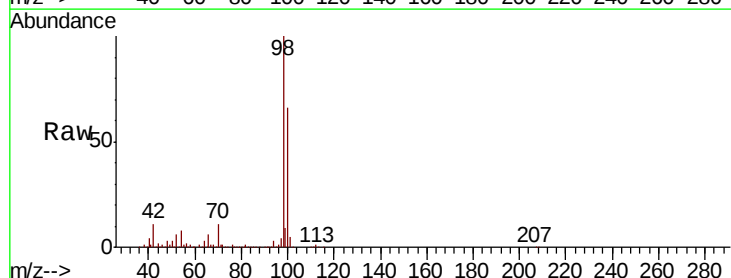


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

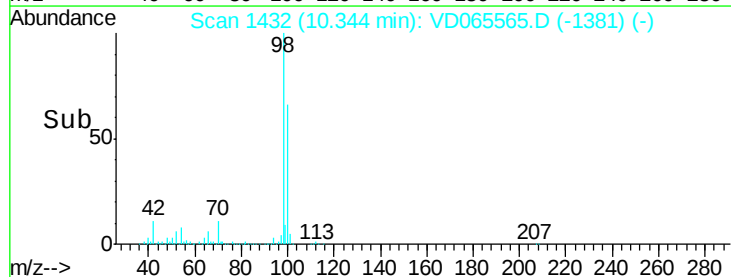
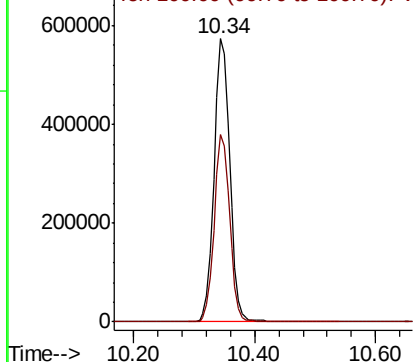


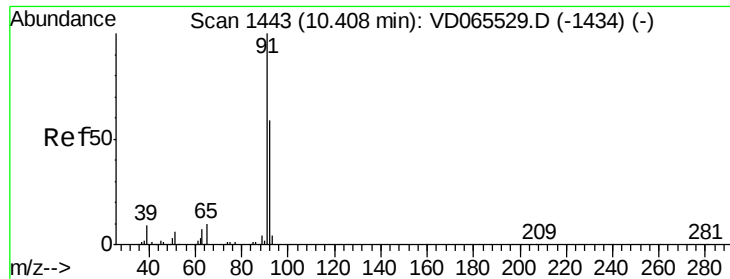
#50
Toluene-d8
Concen: 53.737 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065565.D
Acq: 31 Mar 2020 14:50

Tgt Ion: 98 Resp: 1029513
Ion Ratio Lower Upper
98 100
100 65.2 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): V
Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 3.365 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD065565.D

Acq: 31 Mar 2020 14:50

Instrument :

MSVOA_D

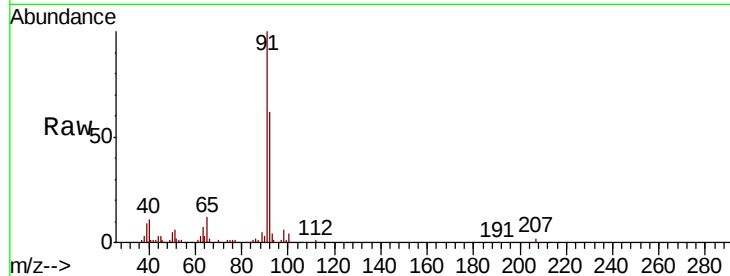
ClientSampleId :

Tot Ion: 92 Resp: 45932

Ion Ratio Lower Upper

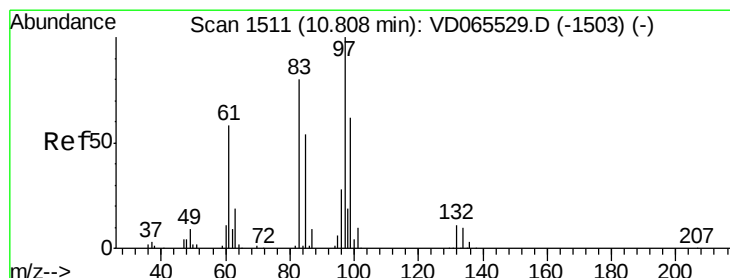
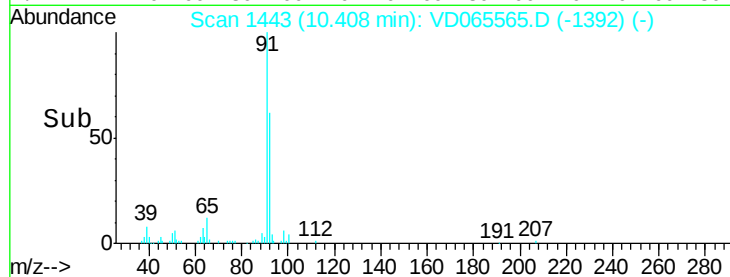
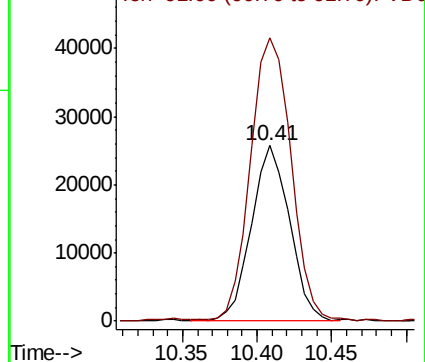
92 100

91 171.0 137.3 205.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#55

1,1,2-Trichloroethane

Concen: 2.439 ug/l

RT: 10.78 min Scan# 1506

Delta R.T. -0.03 min

Lab File: VD065565.D

Acq: 31 Mar 2020 14:50

Tgt Ion: 97 Resp: 9560

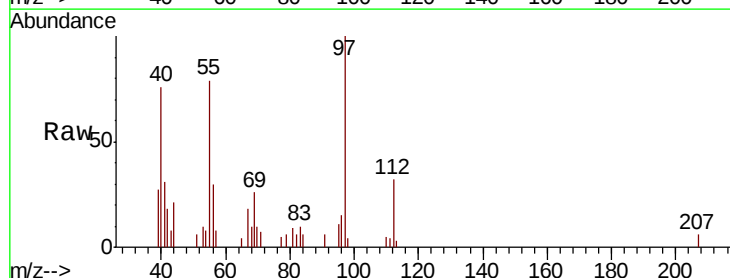
Ion Ratio Lower Upper

97 100

83 9.5 63.8 95.6#

85 0.0 42.9 64.3#

99 0.0 49.9 74.9#

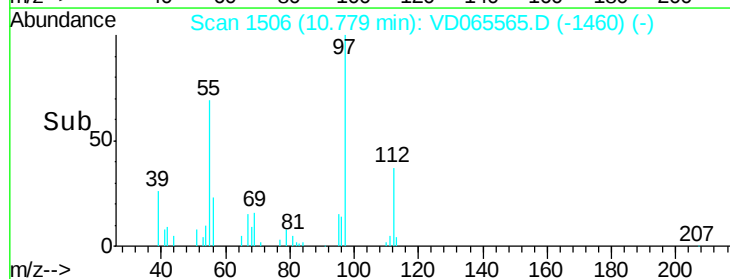
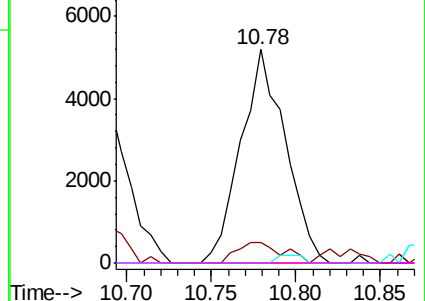


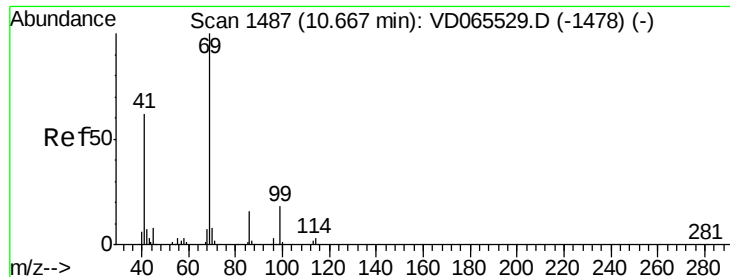
Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC





#56

Ethyl methacrylate

Concen: 3.974 ug/l

RT: 10.68 min Scan# 1490

Delta R.T. 0.02 min

Lab File: VD065565.D

Acq: 31 Mar 2020 14:50

Instrument :

MSVOA_D

ClientSampleId :

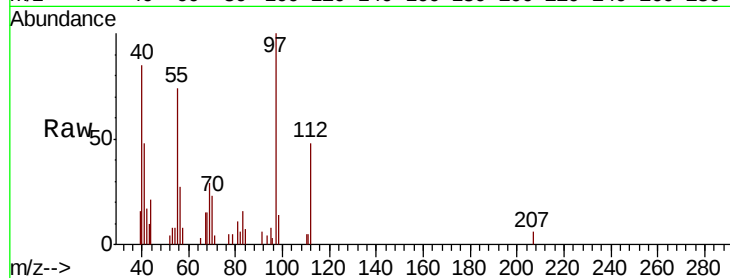
Tot Ion: 69 Resp: 3490

Ion Ratio Lower Upper

69 100

41 123.6 51.3 76.9#

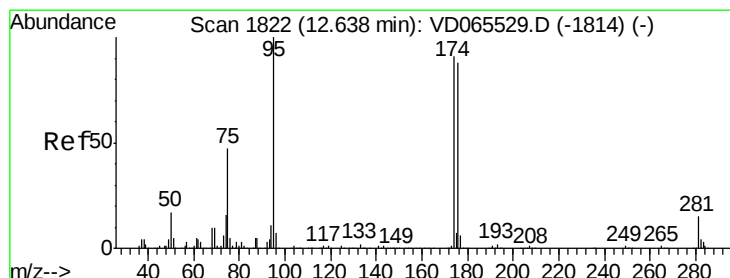
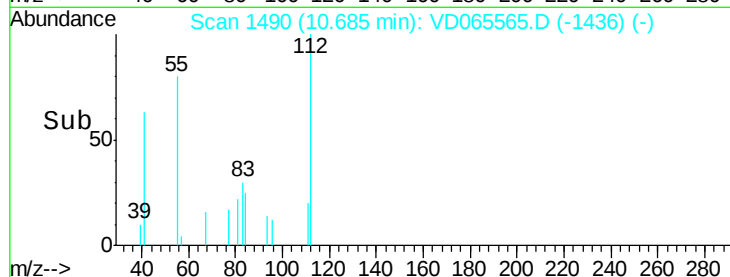
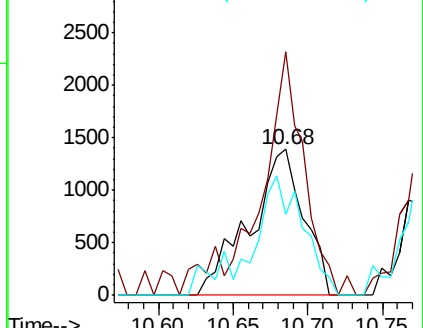
39 67.6 25.3 37.9#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC



#62

4-Bromofluorobenzene

Concen: 58.367 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065565.D

Acq: 31 Mar 2020 14:50

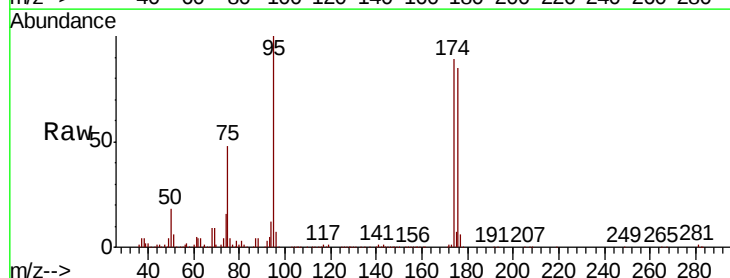
Tgt Ion: 95 Resp: 354911

Ion Ratio Lower Upper

95 100

174 93.2 0.0 183.8

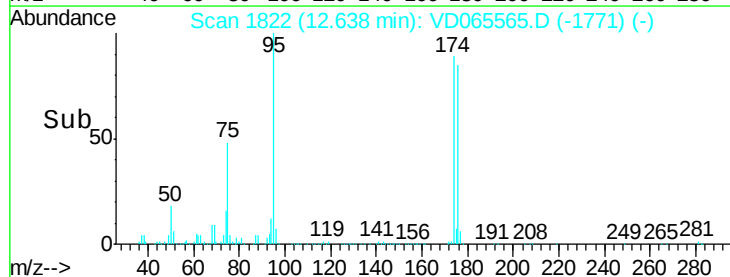
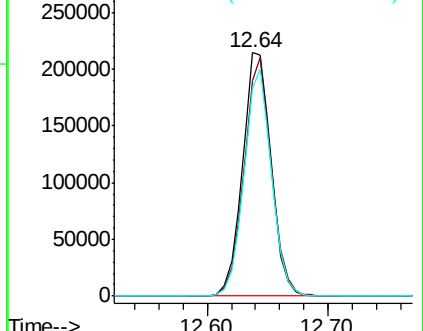
176 89.1 0.0 178.2

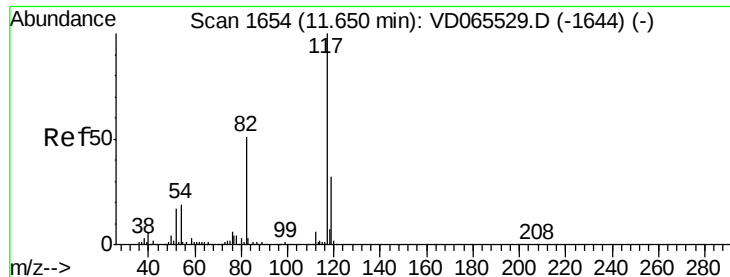


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

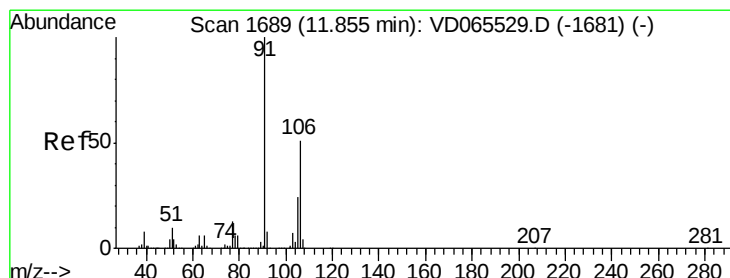
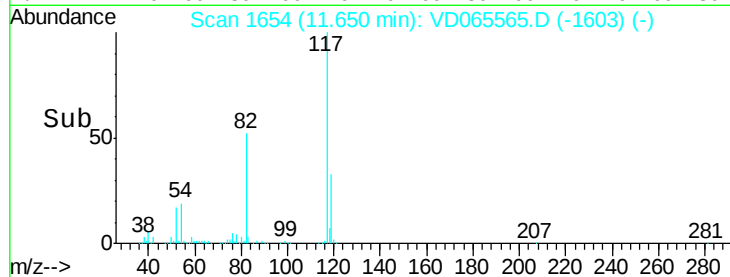
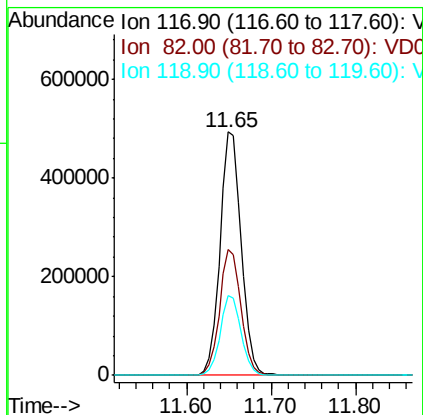
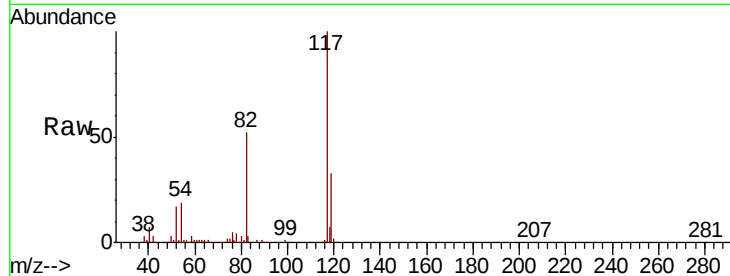




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065565.D
Acq: 31 Mar 2020 14:50

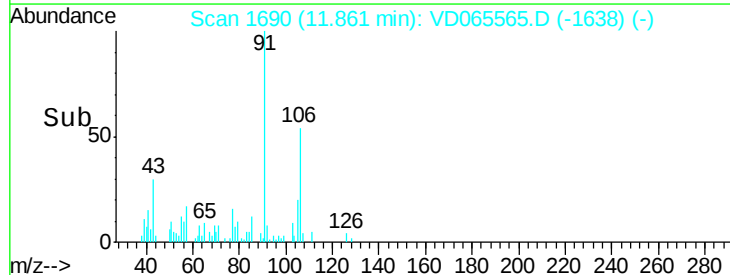
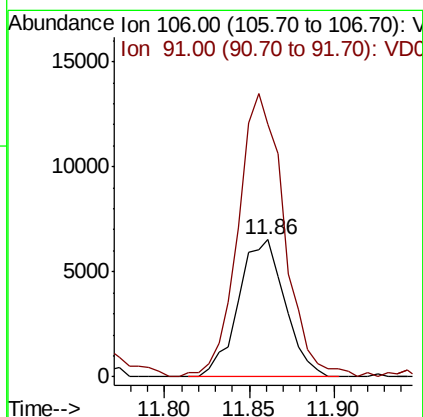
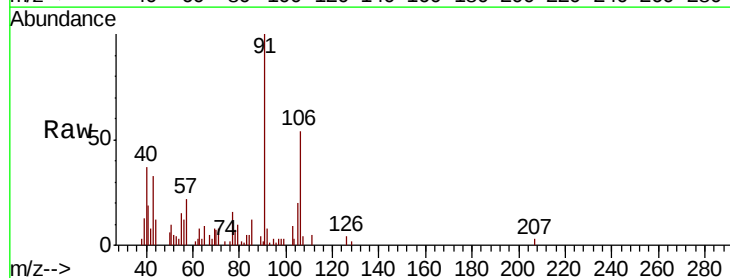
Instrument :
MSVOA_D
ClientSampleId :

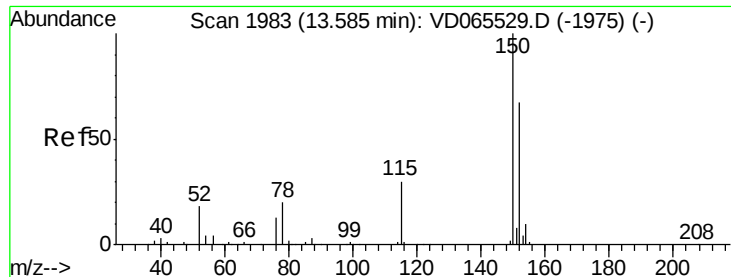
Tot Ion:117 Resp: 860250
Ion Ratio Lower Upper
117 100
82 51.4 41.0 61.6
119 32.7 25.5 38.3



#68
m/p-Xylenes
Concen: 1.124 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VD065565.D
Acq: 31 Mar 2020 14:50

Tgt Ion:106 Resp: 12502
Ion Ratio Lower Upper
106 100
91 204.6 155.4 233.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD065565.D

Acq: 31 Mar 2020 14:50

Instrument :

MSVOA_D

ClientSampleId :

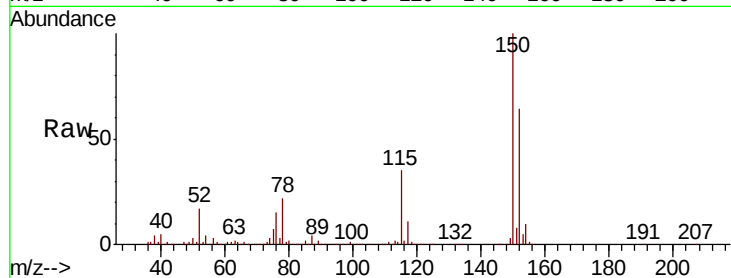
Tot Ion:152 Resp: 412856

Ion Ratio Lower Upper

152 100

115 53.9 27.2 81.6

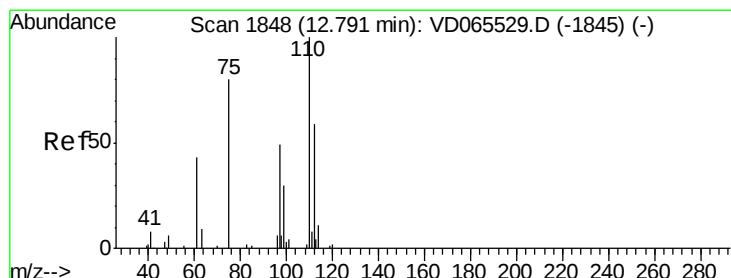
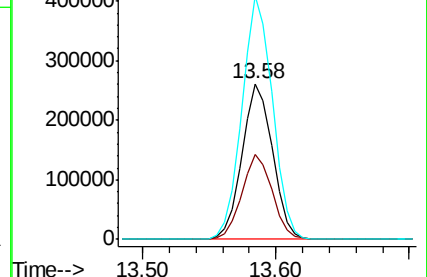
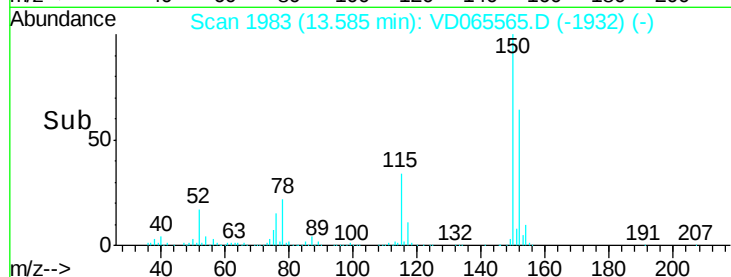
150 156.2 0.0 340.2



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: 53.373 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065565.D

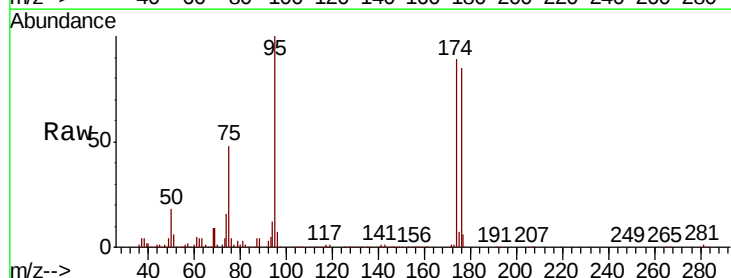
Acq: 31 Mar 2020 14:50

Tgt Ion: 75 Resp: 169410

Ion Ratio Lower Upper

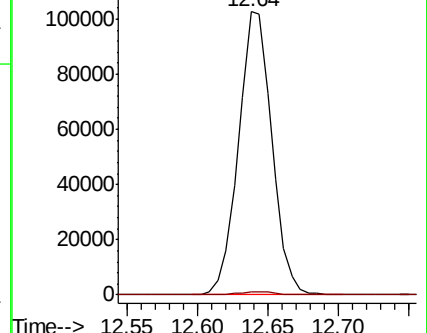
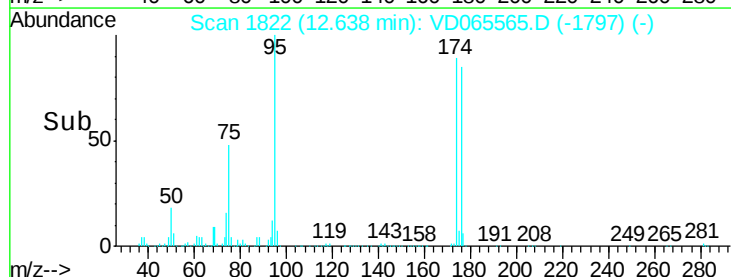
75 100

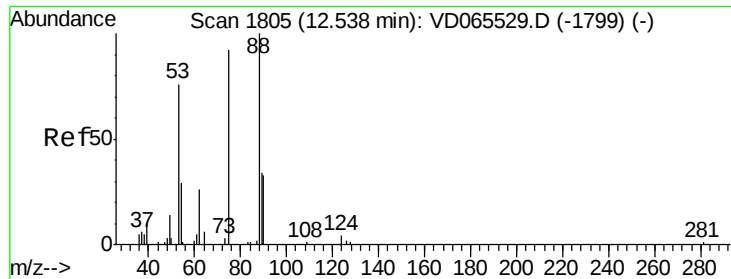
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 119.139 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065565.D

Acq: 31 Mar 2020 14:50

Instrument :

MSVOA_D

ClientSampleId :

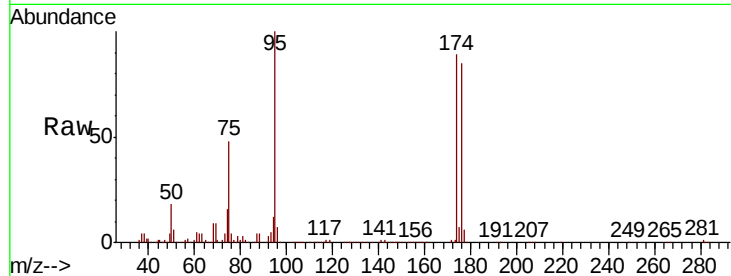
Tot Ion: 75 Resp: 169410

Ion Ratio Lower Upper

75 100

53 0.0 72.4 108.6#

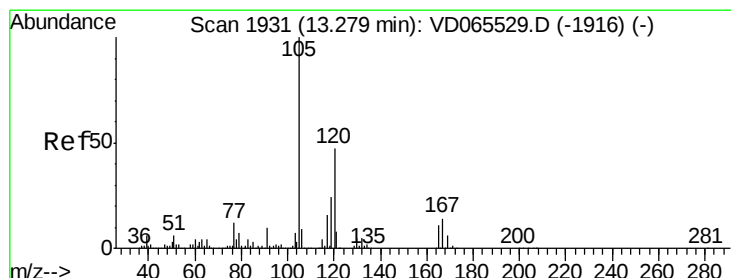
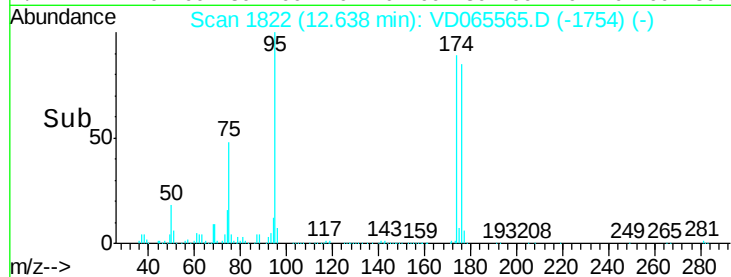
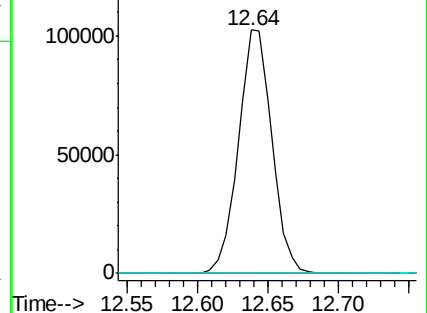
89 0.0 36.9 55.3#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.036 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.00 min

Lab File: VD065565.D

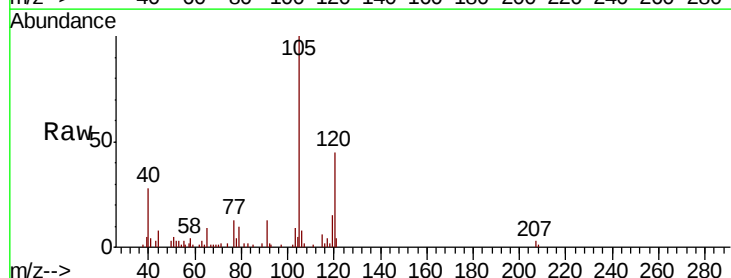
Acq: 31 Mar 2020 14:50

Tgt Ion:105 Resp: 21761

Ion Ratio Lower Upper

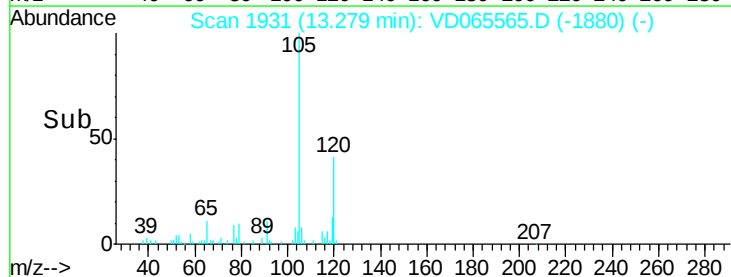
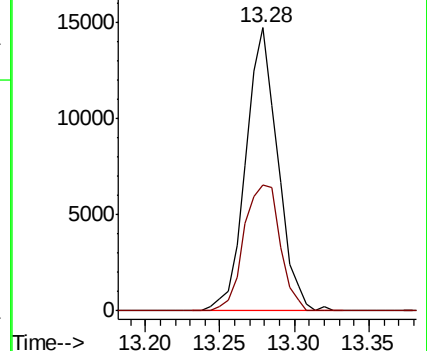
105 100

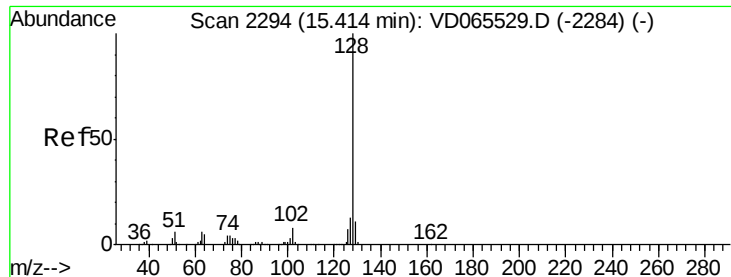
120 50.4 23.5 70.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 420.242 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD065565.D
Acq: 31 Mar 2020 14:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 5805751
Ion Ratio Lower Upper
128 100
127 13.3 10.4 15.6
129 11.3 8.7 13.1

