

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062320\
 Data File : VD065866.D
 Acq On : 23 Jun 2020 17:58
 Operator : VA/SY
 Sample : L3082-19
 Misc : 5.67G/5.00ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-20

Quant Time: Jun 24 04:45:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060520S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 05 13:07:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	6495	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	11680	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	13805	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	4821	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	20938	326.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	652.48%	
35) Dibromofluoromethane	7.92	113	8764	118.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	237.58%	
50) Toluene-d8	10.34	98	12556	45.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.28%	
62) 4-Bromofluorobenzene	12.63	95	5569	59.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.38%	

Target Compounds

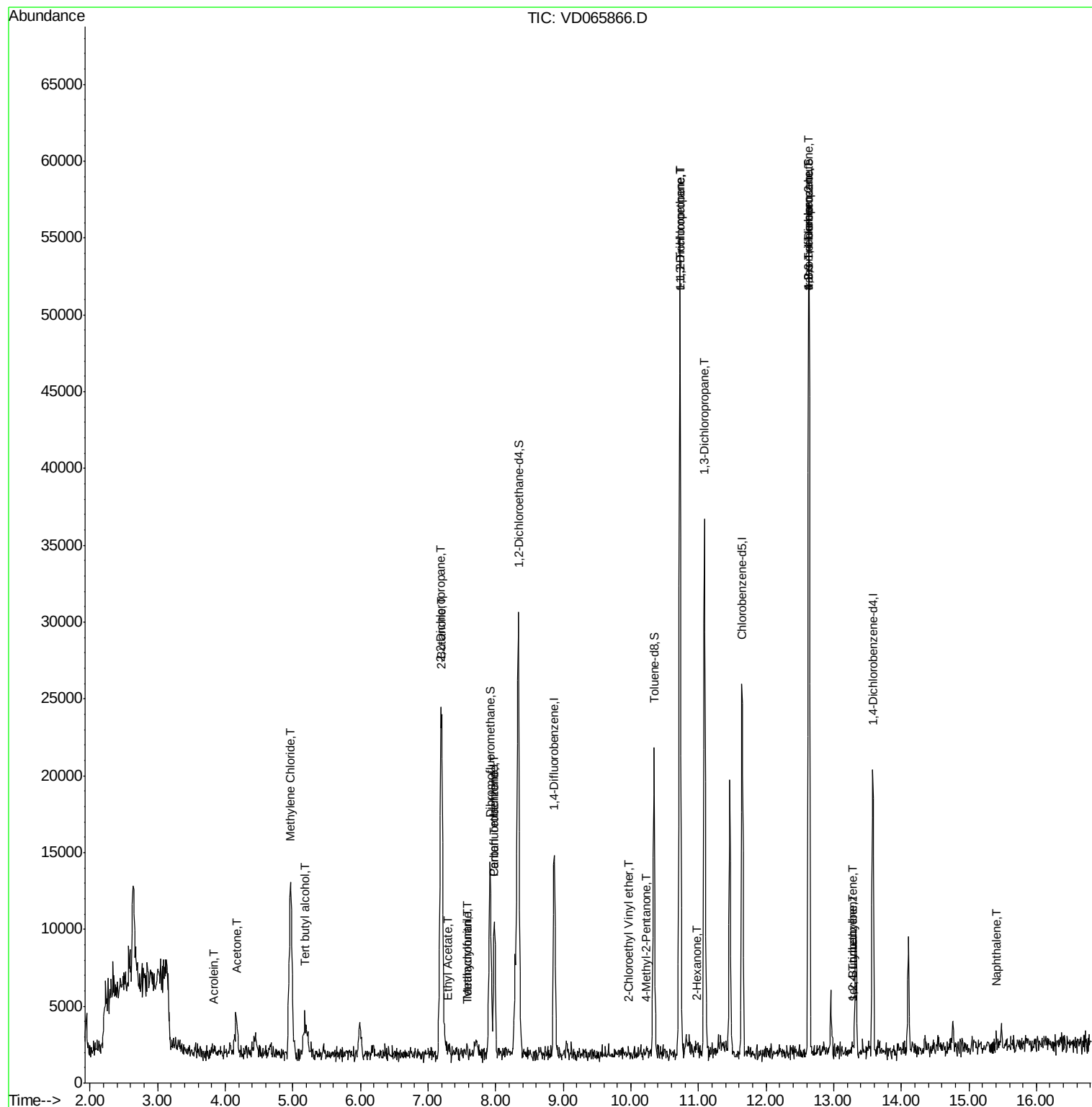
						Qvalue
3) Chloromethane	2.21	50	70	Below Cal	#	43
11) Tert butyl alcohol	5.17	59	2152	655.997	ug/l #	74
13) Acrolein	3.83	56	95	26.353	ug/l #	16
16) Acetone	4.17	43	4686	387.072	ug/l	96
18) Methyl Acetate	4.74	43	62	Below Cal	#	52
20) Methylene Chloride	4.97	84	7835	128.884	ug/l #	91
25) 2-Butanone	7.20	43	1667	99.704	ug/l #	52
26) 2,2-Dichloropropane	7.20	77	1750	16.439	ug/l #	54
29) Tetrahydrofuran	7.59	42	149	14.100	ug/l #	34
37) Ethyl Acetate	7.30	43	57	1.293	ug/l #	70
38) Carbon Tetrachloride	7.98	117	696	5.911	ug/l #	12
41) Methacrylonitrile	7.58	41	125	4.763	ug/l #	25
51) 4-Methyl-2-Pentanone	10.23	43	399	9.292	ug/l #	37
53) t-1,3-Dichloropropene	10.73	75	819	8.097	ug/l #	42
55) 1,1,2-Trichloroethane	10.73	97	1239	22.246	ug/l #	15
57) 1,3-Dichloropropane	11.09	76	127	1.316	ug/l #	42
58) 2-Chloroethyl Vinyl ether	9.96	63	90	2.955	ug/l #	46
59) 2-Hexanone	10.98	43	62	2.142	ug/l #	26
76) 1,2,3-Trichloropropane	12.64	75	3215	85.748	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	3215	185.269	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.29	105	355	1.319	ug/l #	62
85) sec-Butylbenzene	13.29	105	355	1.093	ug/l #	55
95) Naphthalene	15.41	128	463	3.098	ug/l #	69

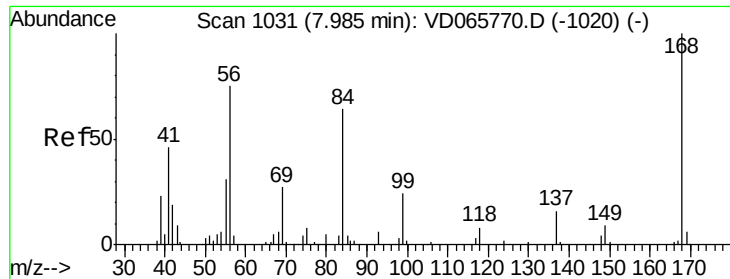
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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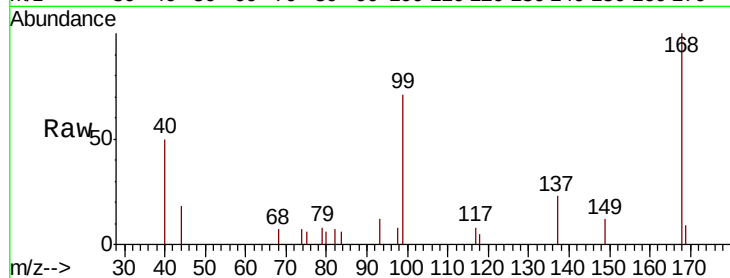




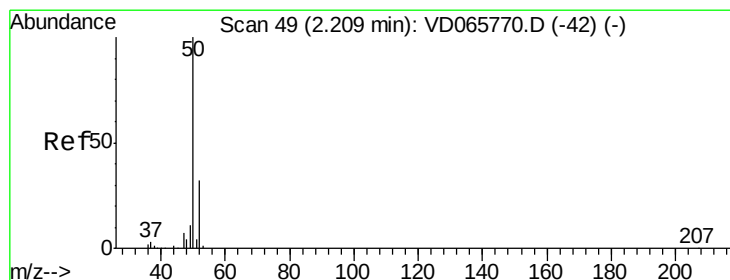
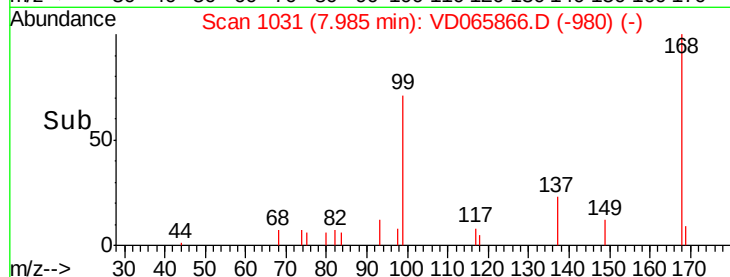
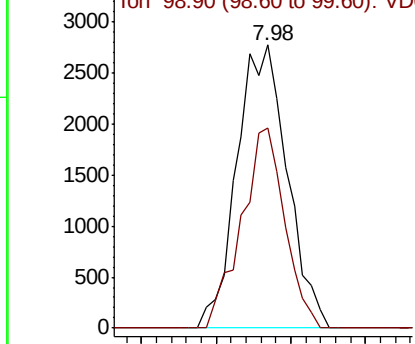
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065866.D
Acq: 23 Jun 2020 17:58

Instrument :
MSVOA_D
ClientSampleId :
SB-20

Tot Ion:168 Resp: 6495
Ion Ratio Lower Upper
168 100
99 70.9 45.3 67.9#

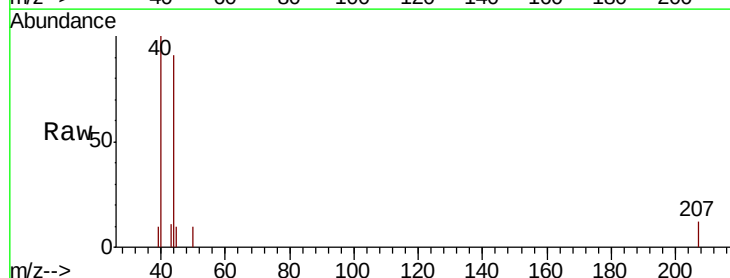


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VDC

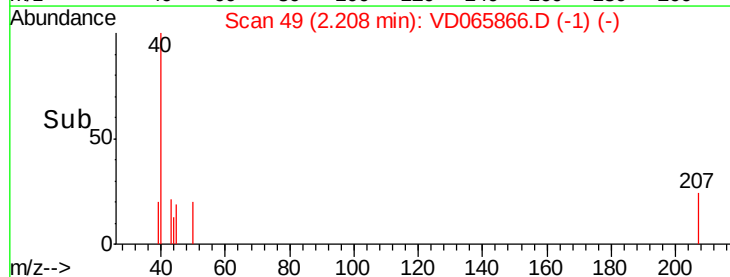
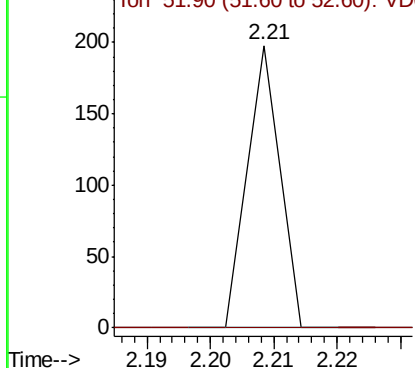


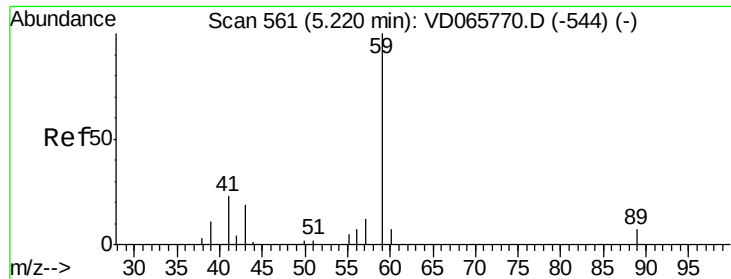
#3
Chloromethane
Concen: Below Cal
RT: 2.21 min Scan# 49
Delta R.T. 0.00 min
Lab File: VD065866.D
Acq: 23 Jun 2020 17:58

Tgt Ion: 50 Resp: 70
Ion Ratio Lower Upper
50 100
52 0.0 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC
Ion 51.90 (51.60 to 52.60): VDC



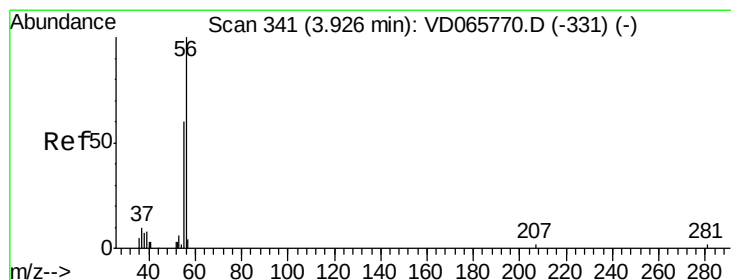
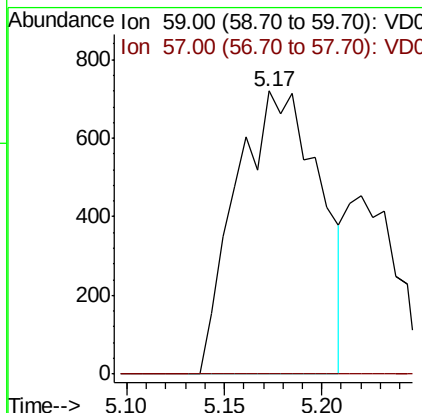
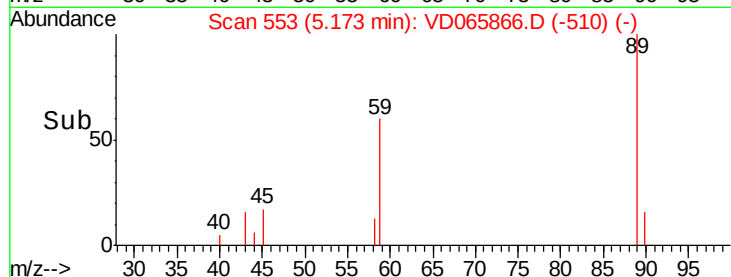
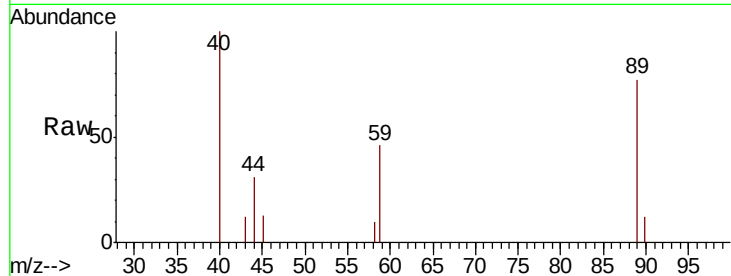


#11

Tert butyl alcohol
 Concen: 655.997 ug/l
 RT: 5.17 min Scan# 553
 Delta R.T. -0.05 min
 Lab File: VD065866.D
 Acq: 23 Jun 2020 17:58

Instrument :
 MSVOA_D
 ClientSampled :
 SB-20

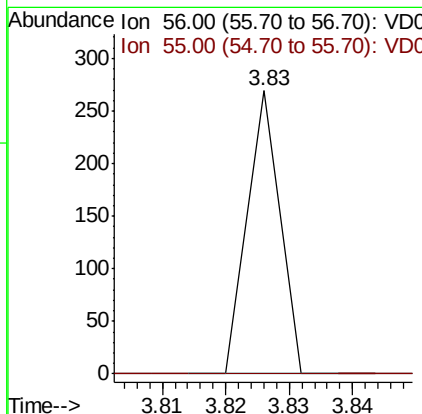
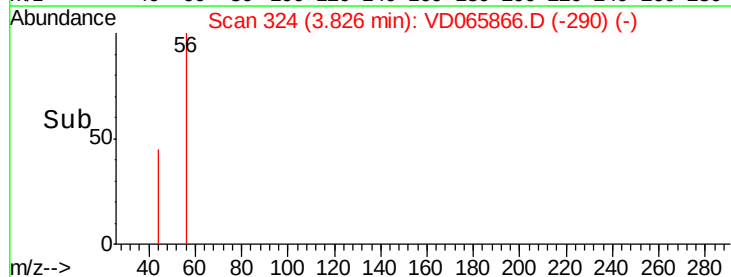
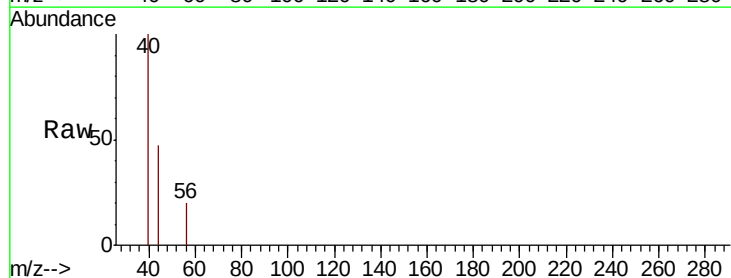
Tot Ion: 59 Resp: 2152
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.5 11.3#

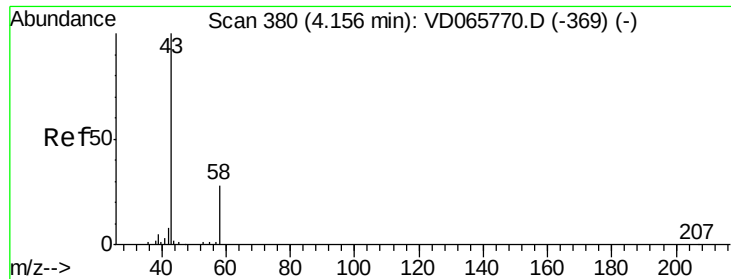


#13

Acrolein
 Concen: 26.353 ug/l
 RT: 3.83 min Scan# 324
 Delta R.T. -0.10 min
 Lab File: VD065866.D
 Acq: 23 Jun 2020 17:58

Tgt Ion: 56 Resp: 95
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.8 82.2#





#16

Acetone

Concen: 387.072 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD065866.D

Acq: 23 Jun 2020 17:58

Instrument :

MSVOA_D

ClientSampleId :

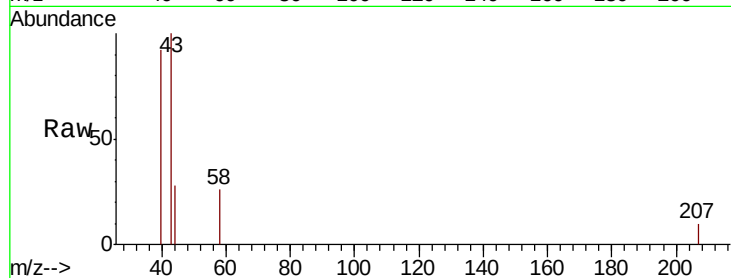
SB-20

Tot Ion: 43 Resp: 4686

Ion Ratio Lower Upper

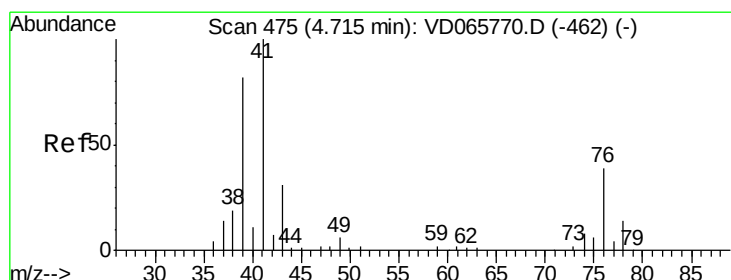
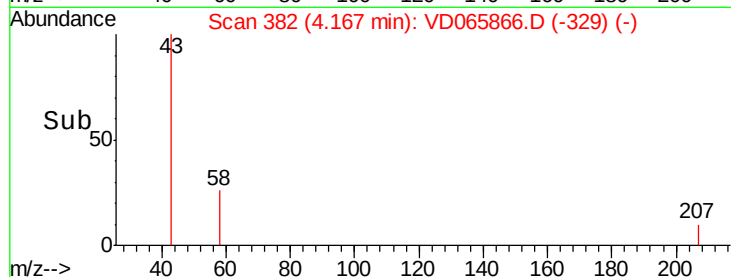
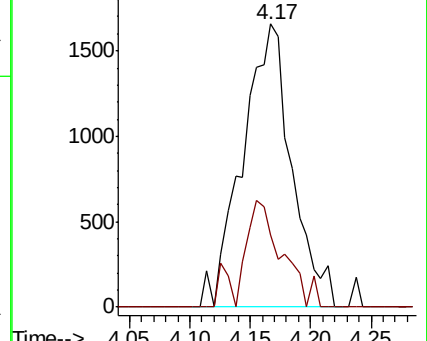
43 100

58 25.6 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: Below Cal

RT: 4.74 min Scan# 480

Delta R.T. 0.03 min

Lab File: VD065866.D

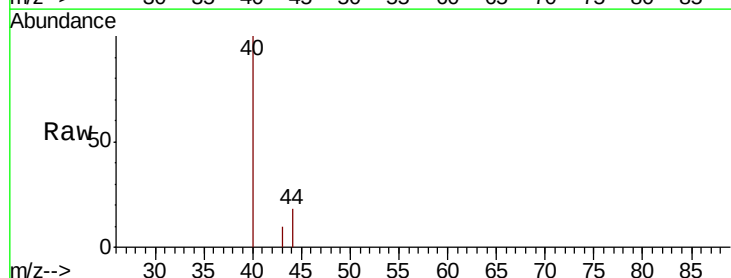
Acq: 23 Jun 2020 17:58

Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

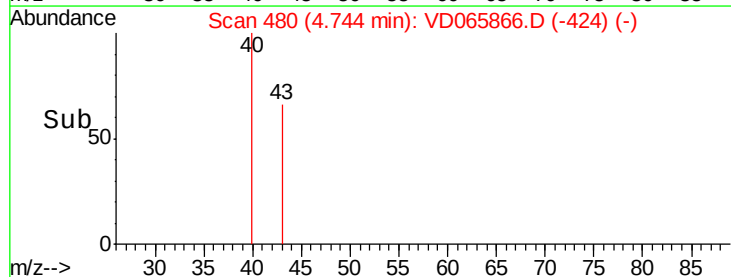
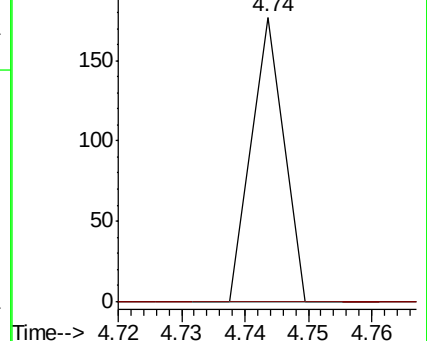
43 100

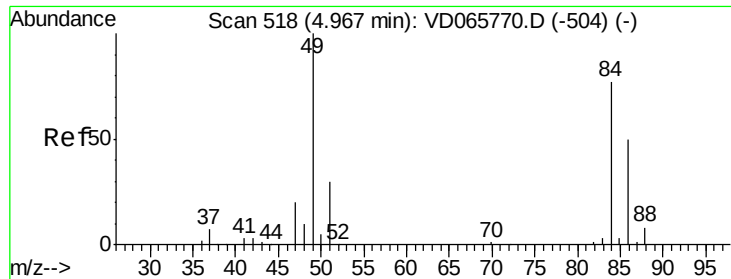
74 0.0 18.7 28.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

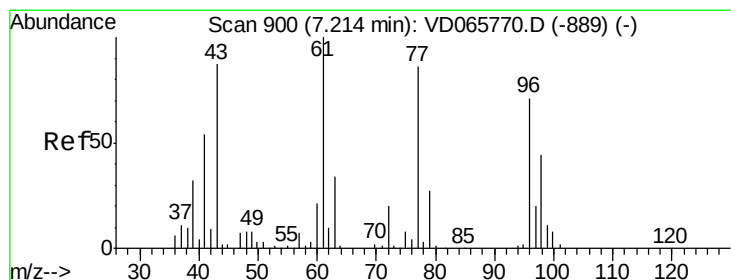
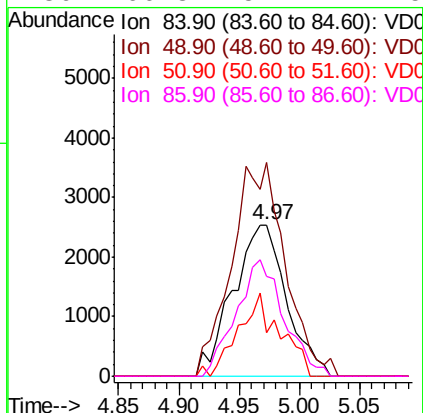
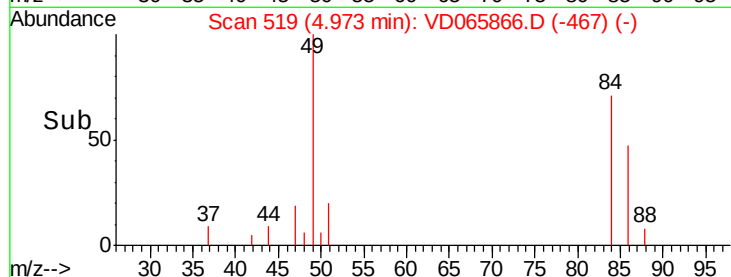
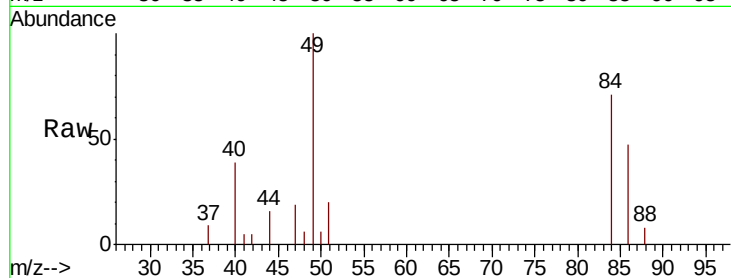




#20
Methvlene Chloride
Concen: 128.884 ug/l
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD065866.D
Acq: 23 Jun 2020 17:58

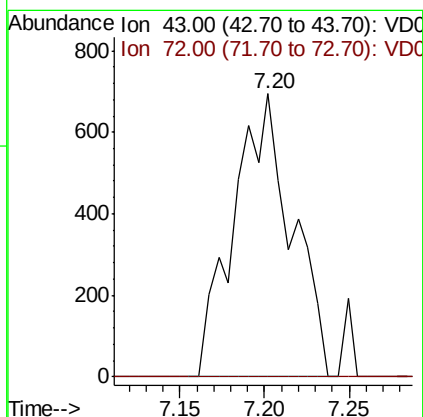
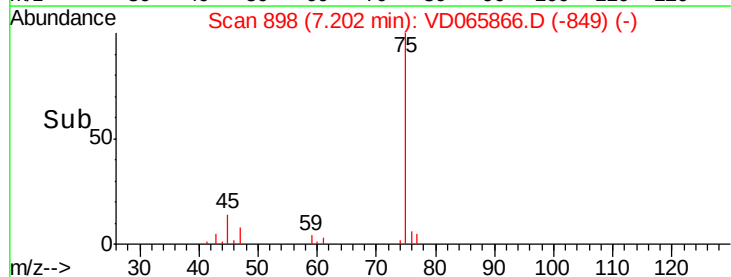
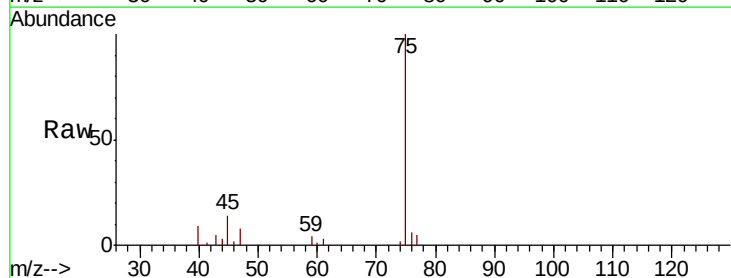
Instrument :
MSVOA_D
ClientSampled :
SB-20

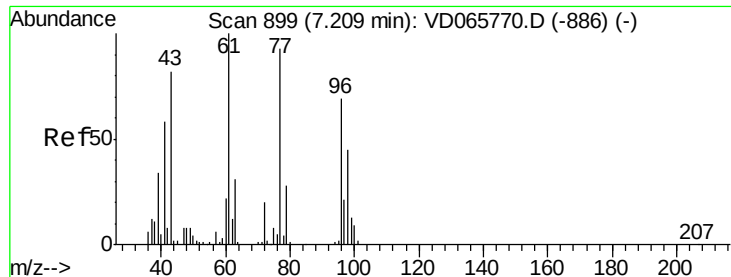
Tot Ion: 84 Resp: 7835
Ion Ratio Lower Upper
84 100
49 141.2 103.4 155.0
51 28.5 31.4 47.2#
86 66.3 51.7 77.5



#25
2-Butanone
Concen: 99.704 ug/l
RT: 7.20 min Scan# 898
Delta R.T. -0.01 min
Lab File: VD065866.D
Acq: 23 Jun 2020 17:58

Tgt Ion: 43 Resp: 1667
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#

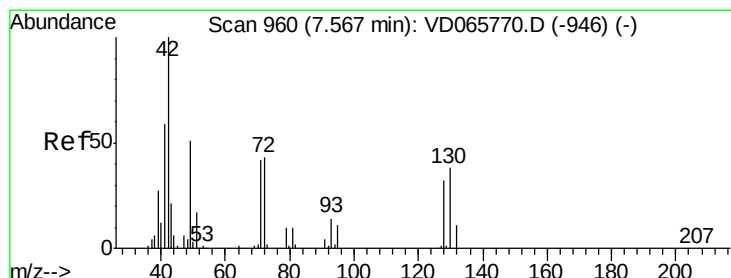
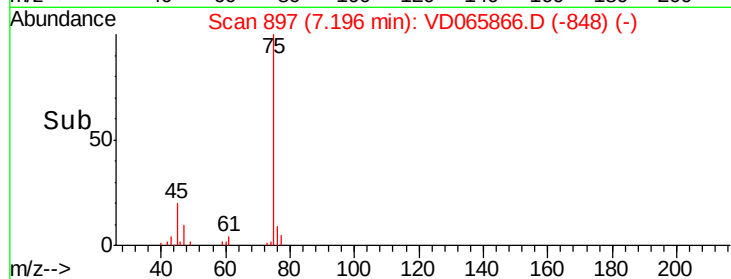
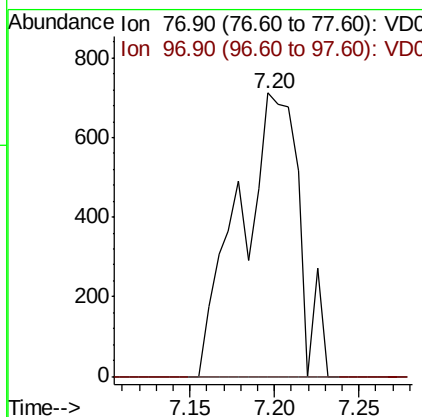
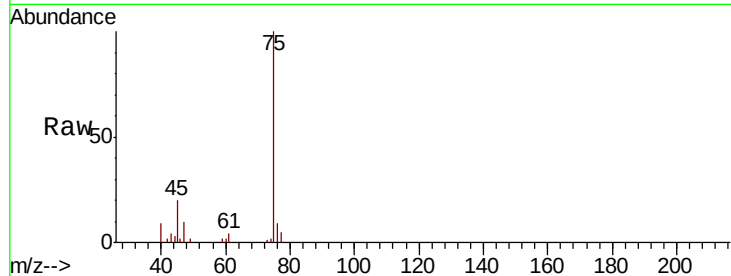




#26
 2,2-Dichloropropane
 Concen: 16.439 ug/l
 RT: 7.20 min Scan# 897
 Delta R.T. -0.01 min
 Lab File: VD065866.D
 Acq: 23 Jun 2020 17:58

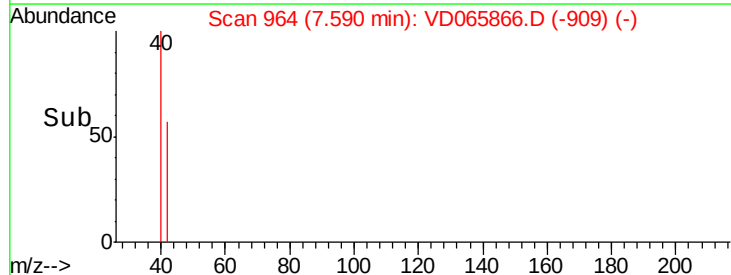
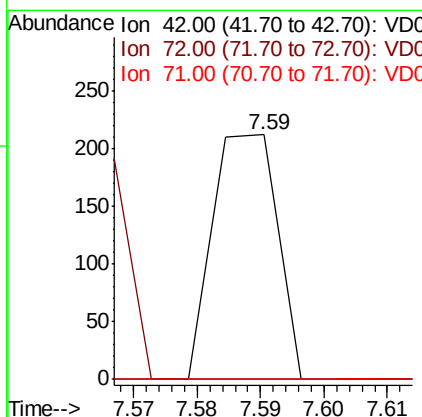
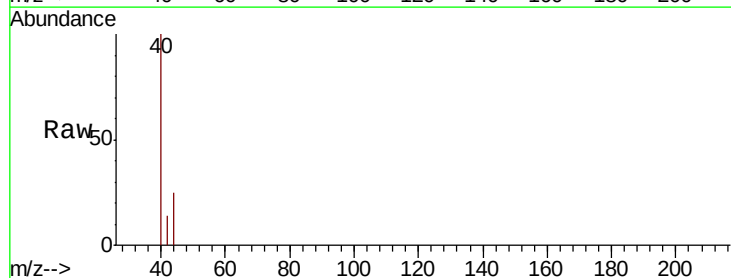
Instrument :
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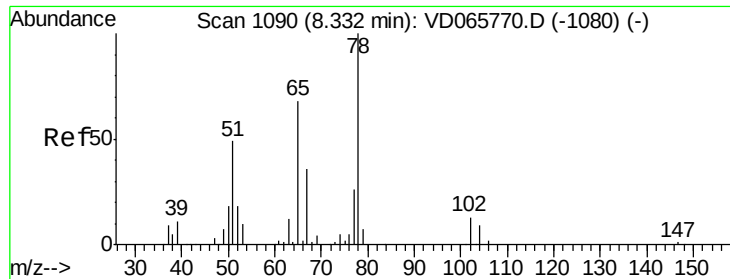
Tot Ion: 77 Resp: 1750
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.9 32.7#



#29
 Tetrahydrofuran
 Concen: 14.100 ug/l
 RT: 7.59 min Scan# 964
 Delta R.T. 0.02 min
 Lab File: VD065866.D
 Acq: 23 Jun 2020 17:58

Tgt Ion: 42 Resp: 149
 Ion Ratio Lower Upper
 42 100
 72 0.0 34.9 52.3#
 71 0.0 31.2 46.8#

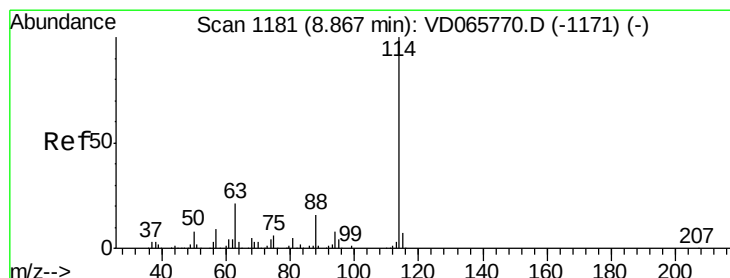
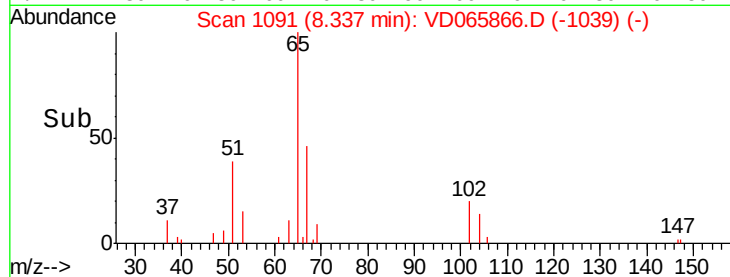
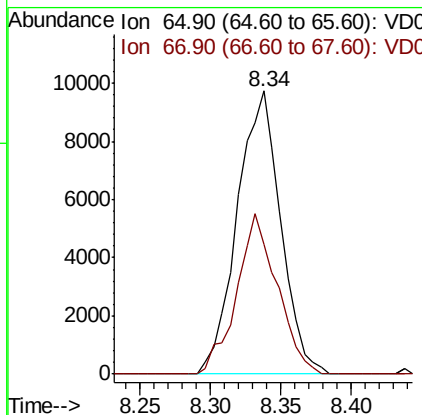
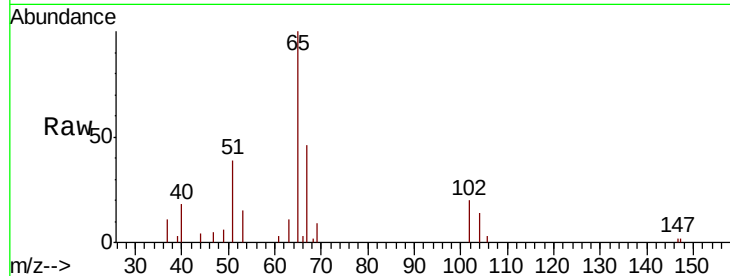




#33
 1,2-Dichloroethane-d4
 Concen: 326.242 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VD065866.D
 Acq: 23 Jun 2020 17:58

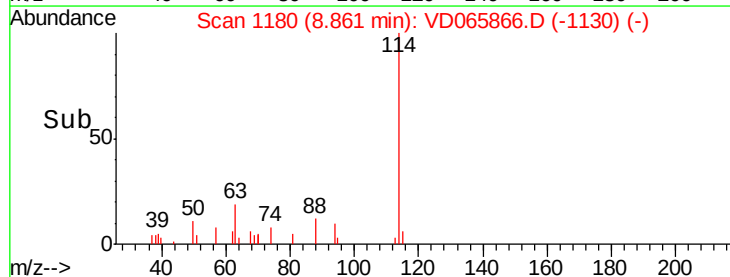
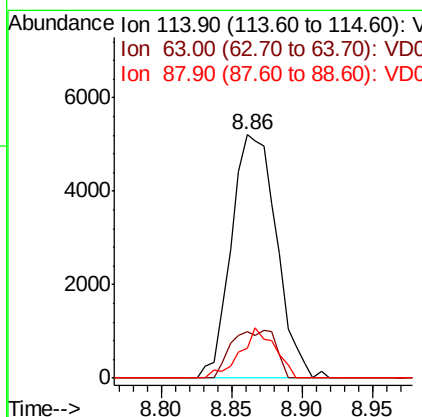
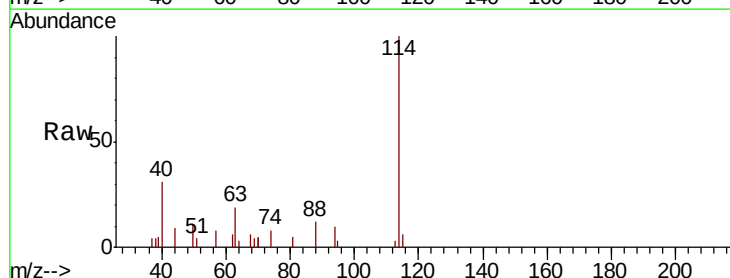
Instrument :
 MSVOA_D
 ClientSampled :
 SB-20

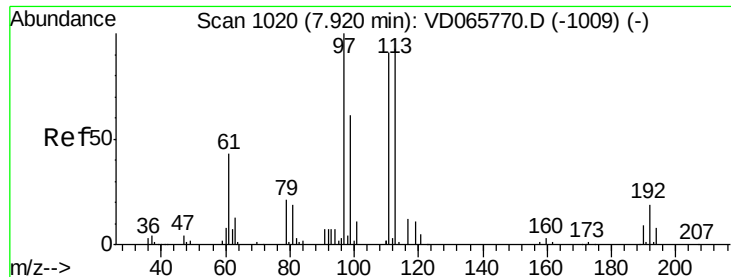
Tot Ion: 65 Resp: 20938
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.01 min
 Lab File: VD065866.D
 Acq: 23 Jun 2020 17:58

Tgt Ion: 114 Resp: 11680
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 41.8
 88 12.4 0.0 32.0





#35

Dibromofluoromethane

Concen: 118.789 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD065866.D

Acq: 23 Jun 2020 17:58

Instrument :

MSVOA_D

ClientSampleId :

SB-20

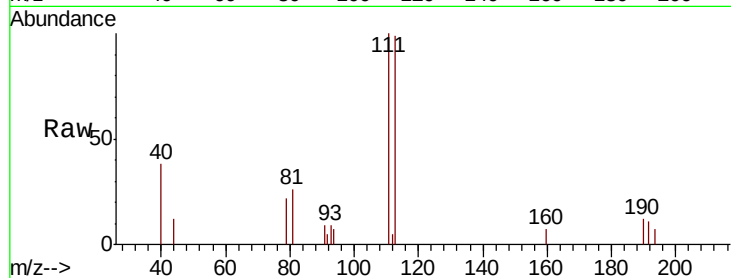
Tot Ion:113 Resp: 8764

Ion Ratio Lower Upper

113 100

111 100.6 83.4 125.0

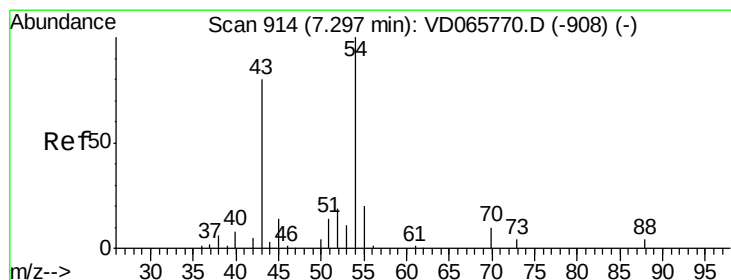
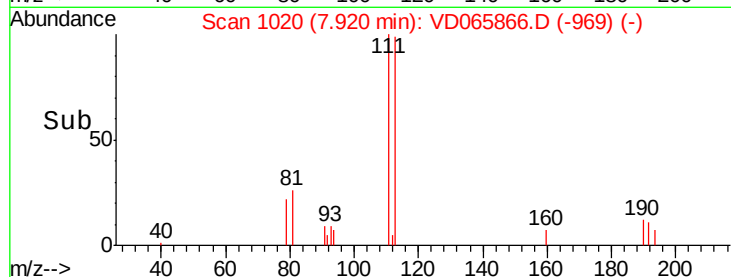
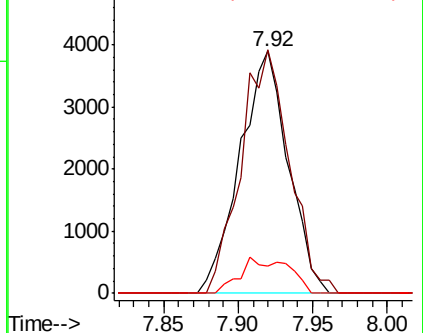
192 8.5 15.7 23.5#



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: 1.293 ug/l

RT: 7.30 min Scan# 914

Delta R.T. -0.00 min

Lab File: VD065866.D

Acq: 23 Jun 2020 17:58

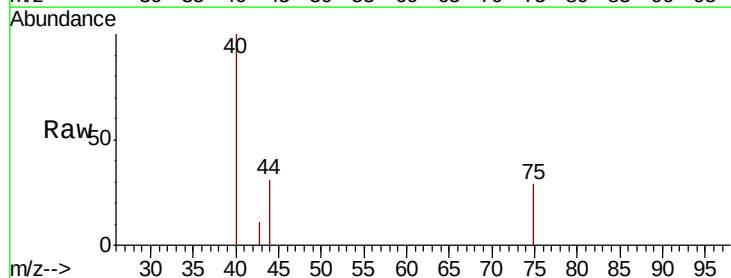
Tgt Ion: 43 Resp: 57

Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

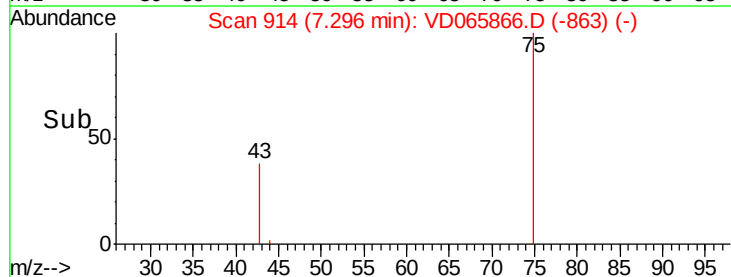
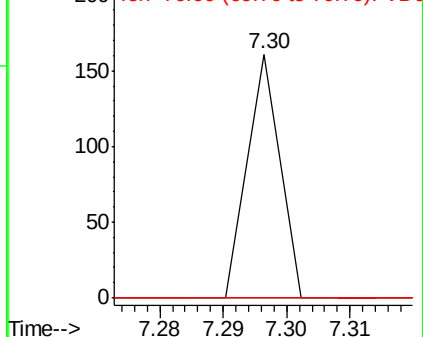
70 0.0 7.5 11.3#

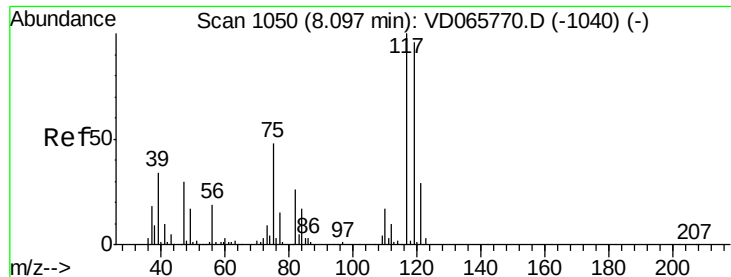


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.911 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD065866.D

Acq: 23 Jun 2020 17:58

Instrument :

MSVOA_D

ClientSampleID :

SB-20

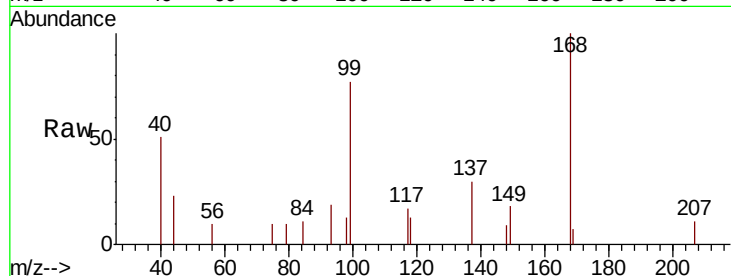
Tot Ion:117 Resp: 696

Ion Ratio Lower Upper

117 100

119 0.0 76.8 115.2#

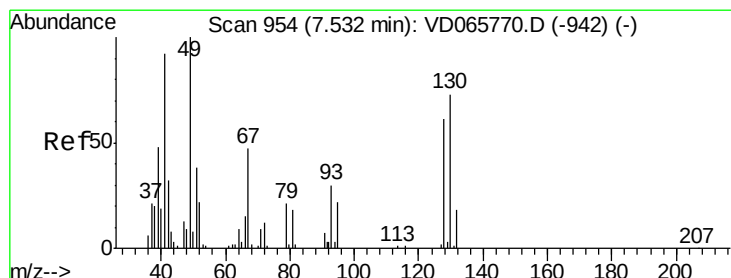
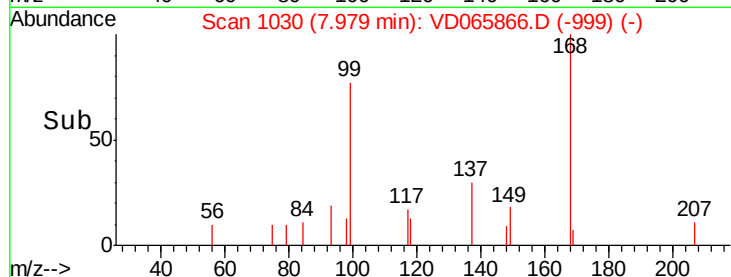
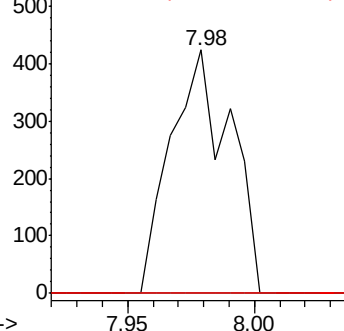
121 0.0 23.4 35.2#



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



#41

Methacrylonitrile

Concen: 4.763 ug/l

RT: 7.58 min Scan# 963

Delta R.T. 0.05 min

Lab File: VD065866.D

Acq: 23 Jun 2020 17:58

Tgt Ion: 41 Resp: 125

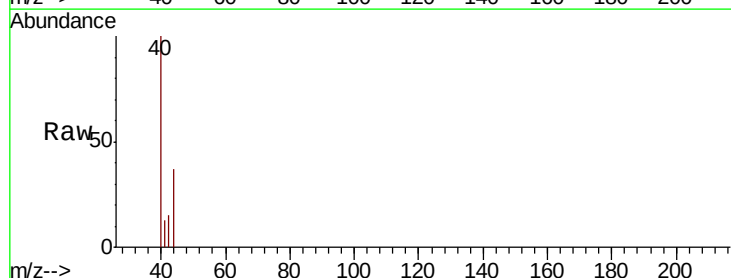
Ion Ratio Lower Upper

41 100

39 102.4 38.3 57.5#

67 0.0 49.8 74.6#

52 0.0 21.7 32.5#

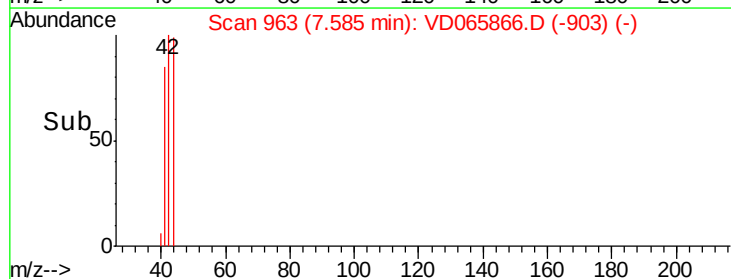
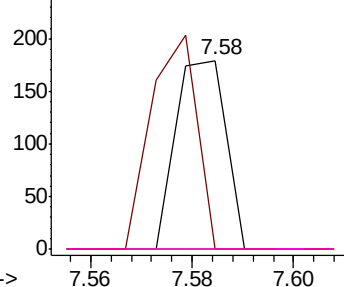


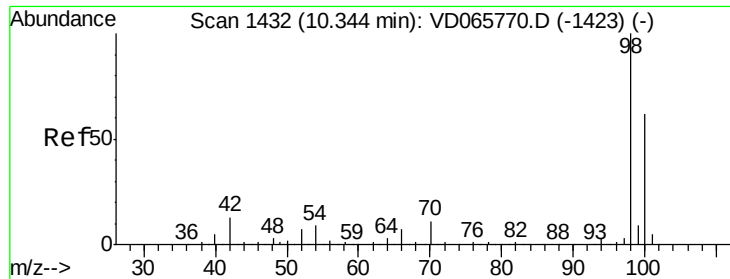
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

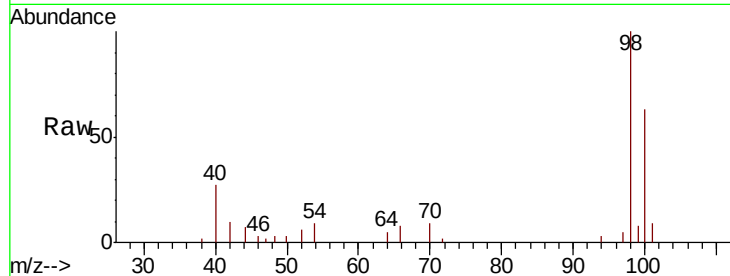




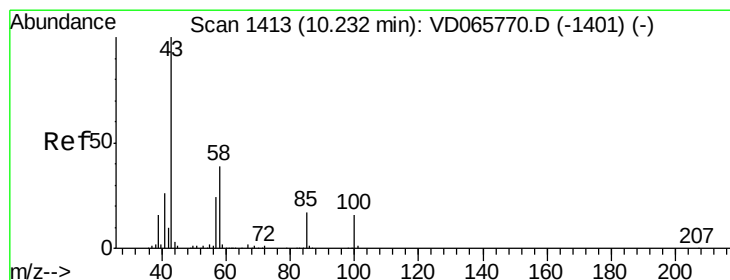
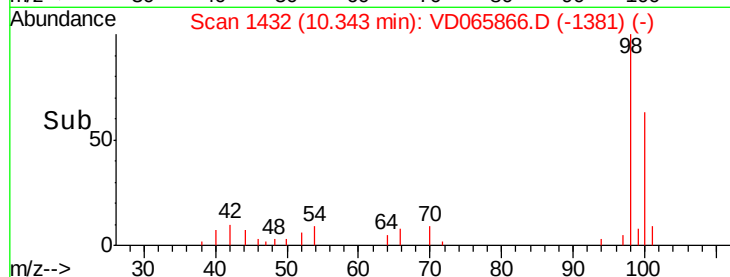
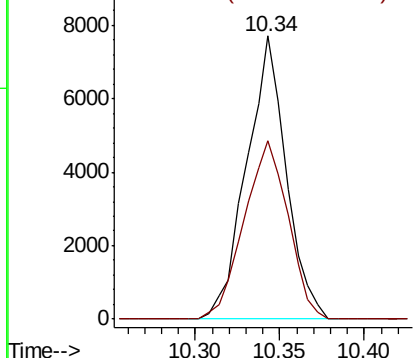
#50
Toluene-d8
Concen: 45.640 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065866.D
Acq: 23 Jun 2020 17:58

Instrument :
MSVOA_D
ClientSampled :
SB-20

Tot Ion: 98 Resp: 12556
Ion Ratio Lower Upper
98 100
100 69.9 51.4 77.2

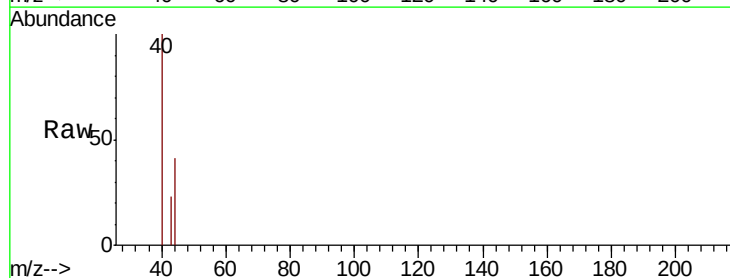


Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC

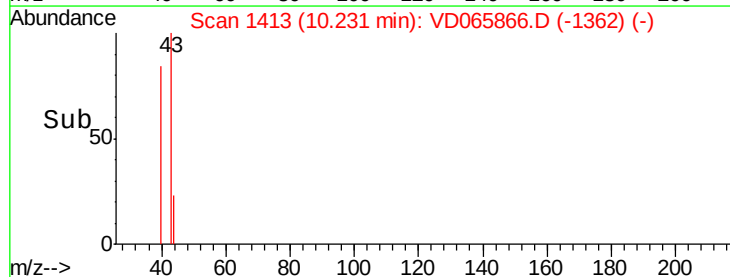
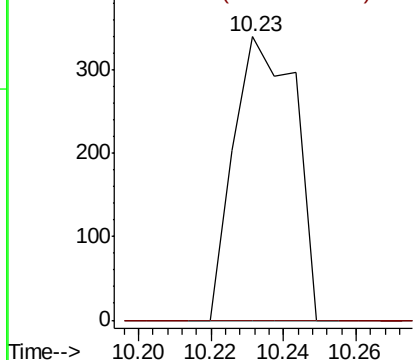


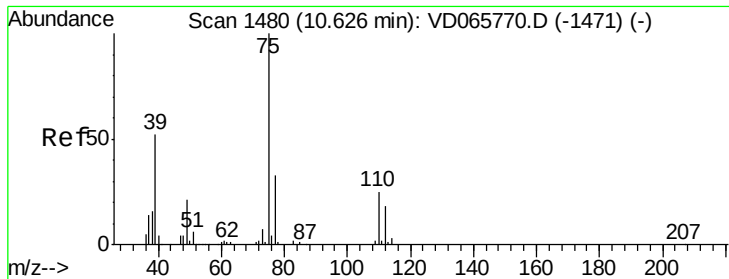
#51
4-Methyl-2-Pentanone
Concen: 9.292 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. -0.00 min
Lab File: VD065866.D
Acq: 23 Jun 2020 17:58

Tgt Ion: 43 Resp: 399
Ion Ratio Lower Upper
43 100
58 0.0 30.7 46.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC





#53

t-1,3-Dichloropropene

Concen: 8.097 ug/l

RT: 10.73 min Scan# 1497

Delta R.T. 0.10 min

Lab File: VD065866.D

Acq: 23 Jun 2020 17:58

Instrument :

MSVOA_D

ClientSampleId :

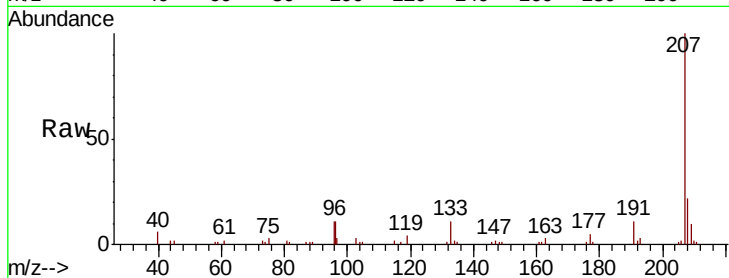
SB-20

Tot Ion: 75 Resp: 819

Ion Ratio Lower Upper

75 100

77 0.0 26.4 39.6#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

10.73

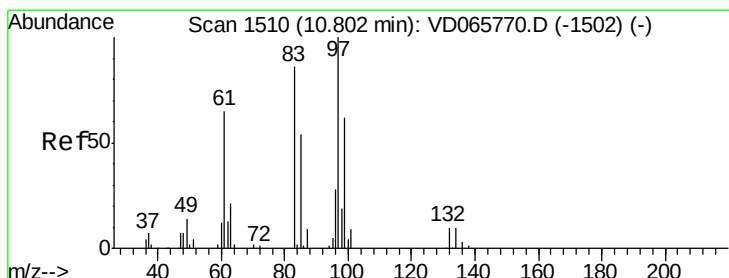
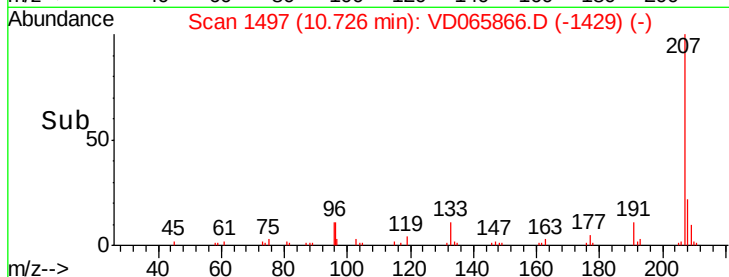
600

400

200

0

Time-->



#55

1,1,2-Trichloroethane

Concen: 22.246 ug/l

RT: 10.73 min Scan# 1498

Delta R.T. -0.07 min

Lab File: VD065866.D

Acq: 23 Jun 2020 17:58

Tgt Ion: 97 Resp: 1239

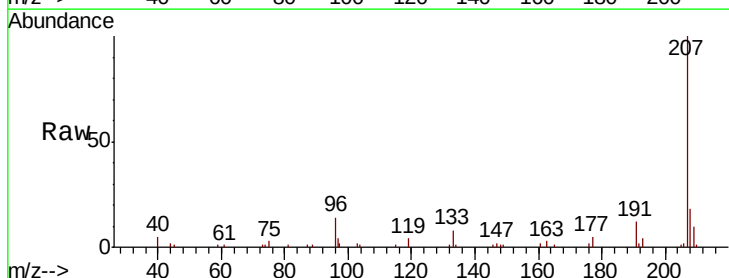
Ion Ratio Lower Upper

97 100

83 0.0 68.7 103.1#

85 0.0 43.0 64.6#

99 0.0 49.8 74.6#



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

2000

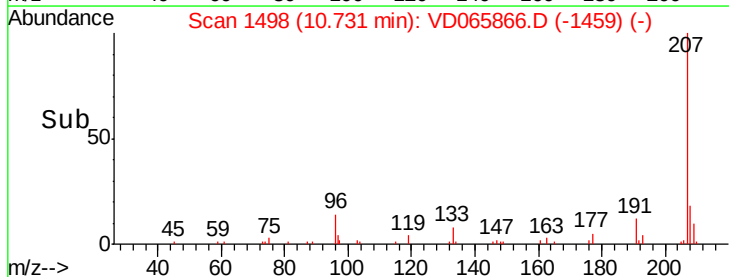
1500

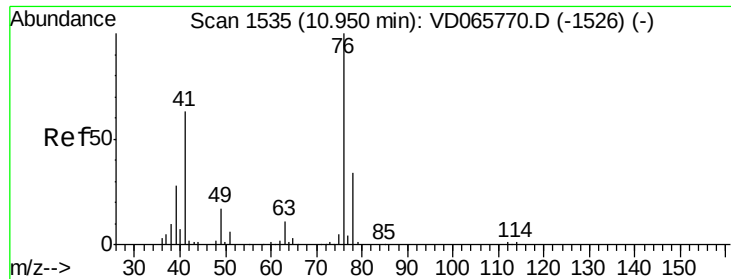
1000

500

0

Time-->





#57

1,3-Dichloropropane

Concen: 1.316 ug/l

RT: 11.09 min Scan# 1559

Delta R.T. 0.14 min

Lab File: VD065866.D

Acq: 23 Jun 2020 17:58

Instrument :

MSVOA_D

ClientSampled :

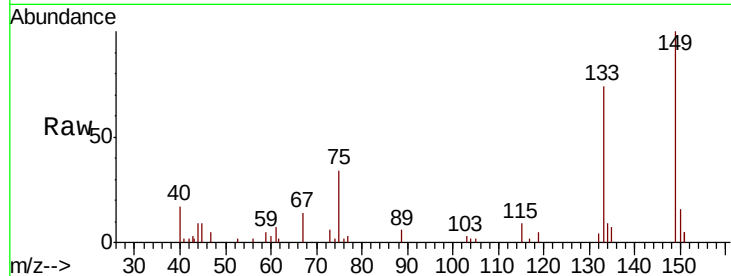
SB-20

Tot Ion: 76 Resp: 127

Ion Ratio Lower Upper

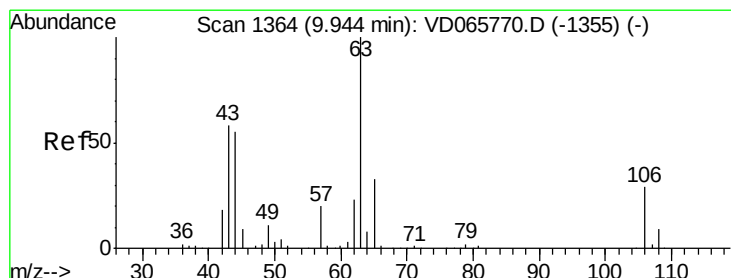
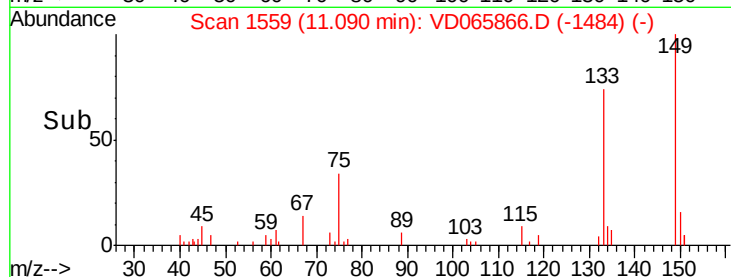
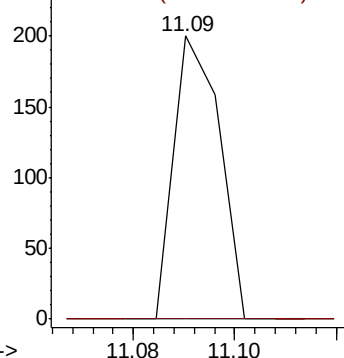
76 100

78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 2.955 ug/l

RT: 9.96 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VD065866.D

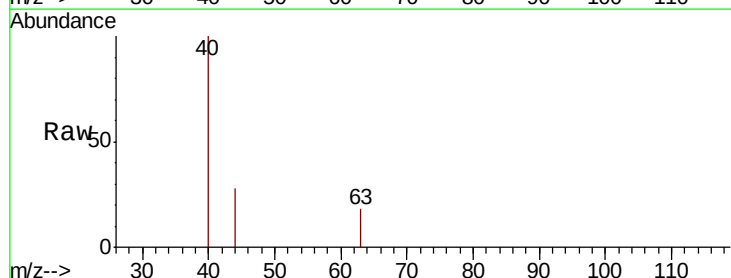
Acq: 23 Jun 2020 17:58

Tgt Ion: 63 Resp: 90

Ion Ratio Lower Upper

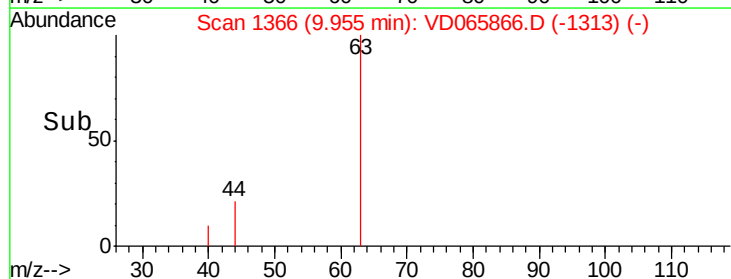
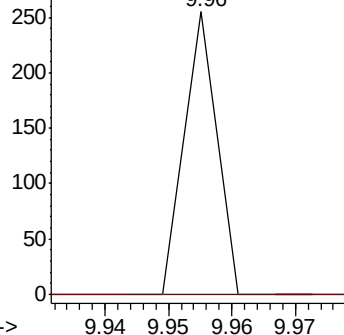
63 100

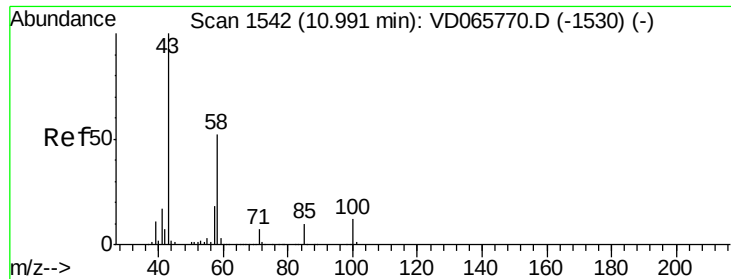
106 0.0 23.2 34.8#



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V

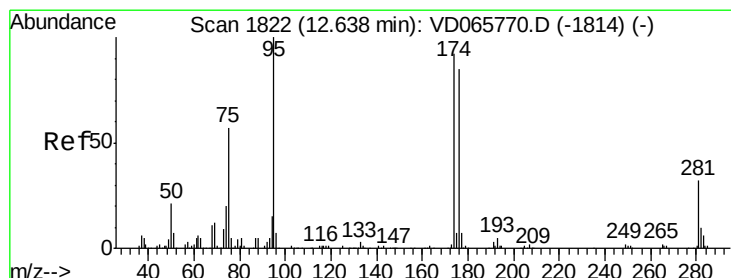
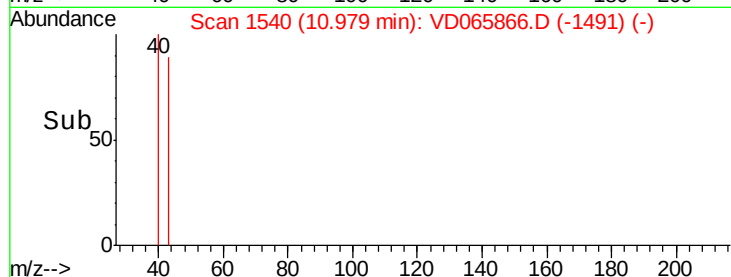
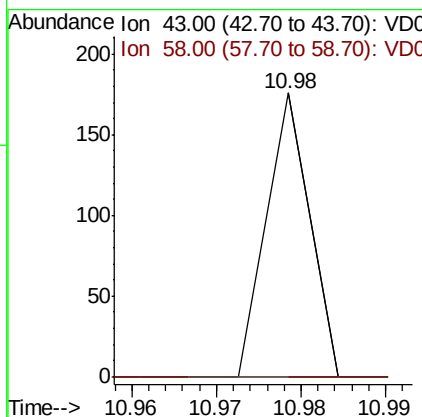
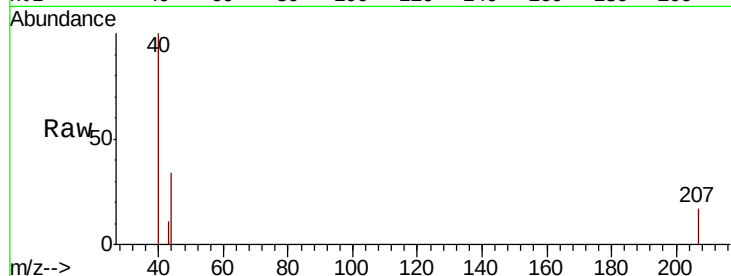




#59
2-Hexanone
Concen: 2.142 ug/l
RT: 10.98 min Scan# 1540
Delta R.T. -0.01 min
Lab File: VD065866.D
Acq: 23 Jun 2020 17:58

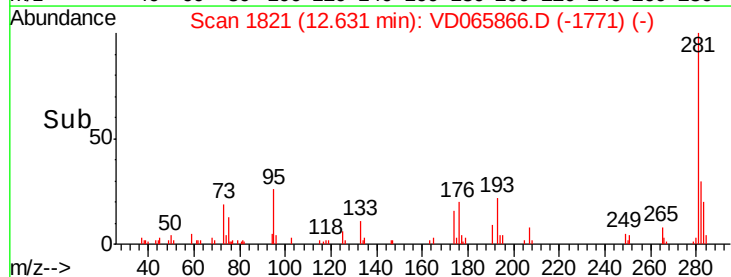
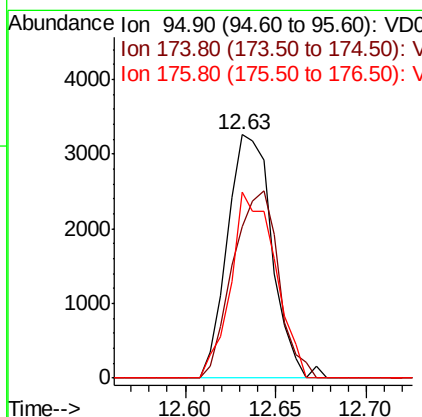
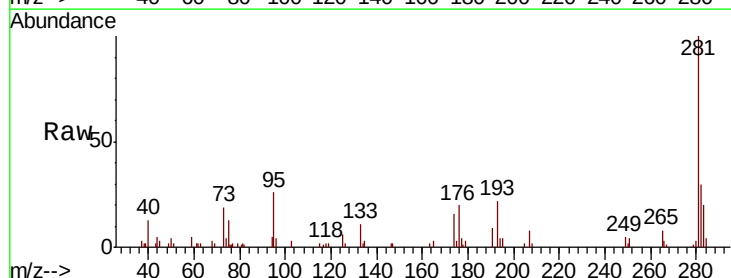
Instrument :
MSVOA_D
ClientSampleId :
SB-20

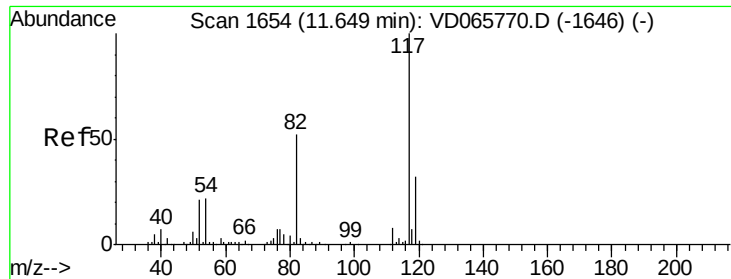
Tot Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
58 0.0 25.7 77.0#



#62
4-Bromofluorobenzene
Concen: 59.690 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.01 min
Lab File: VD065866.D
Acq: 23 Jun 2020 17:58

Tgt Ion: 95 Resp: 5569
Ion Ratio Lower Upper
95 100
174 78.9 0.0 175.2
176 76.1 0.0 163.0

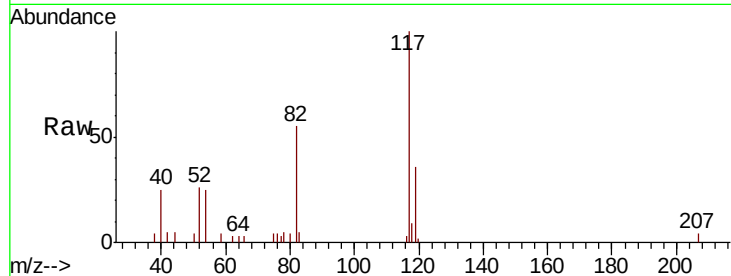




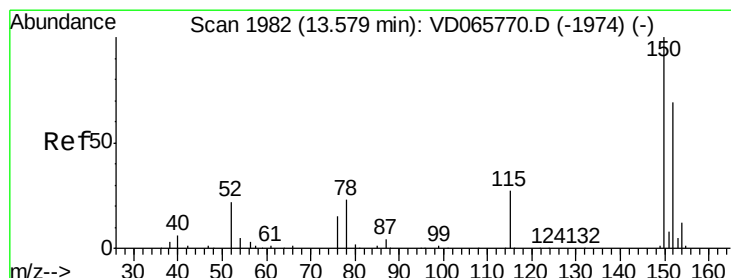
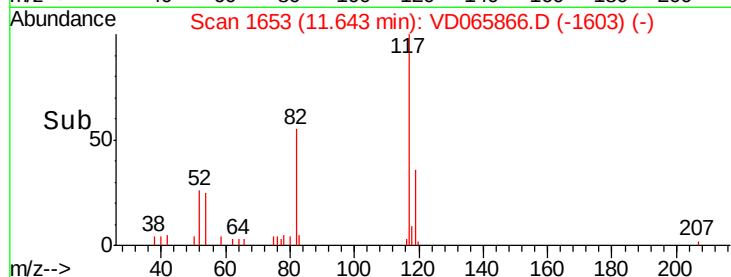
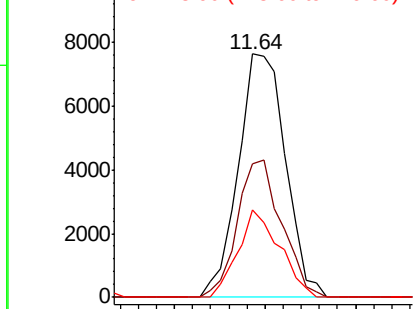
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VD065866.D
Acq: 23 Jun 2020 17:58

Instrument :
MSVOA_D
ClientSampled :
SB-20

Tot Ion:117 Resp: 13805
Ion Ratio Lower Upper
117 100
82 54.6 41.9 62.9
119 36.0 25.3 37.9

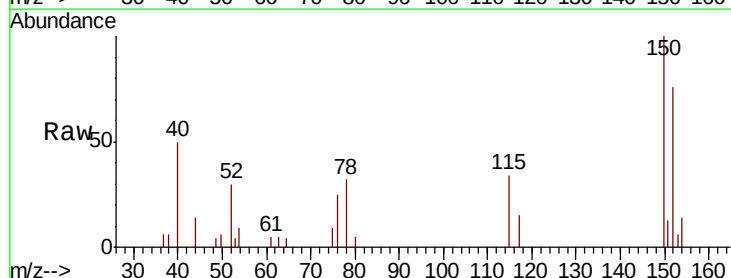


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

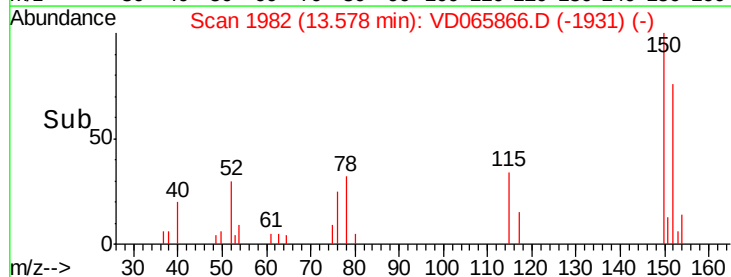
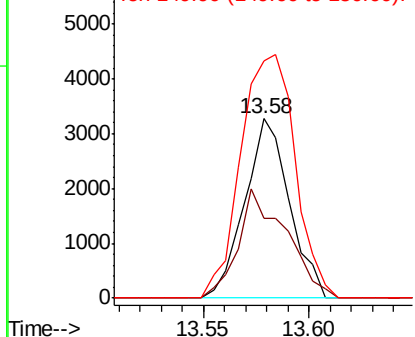


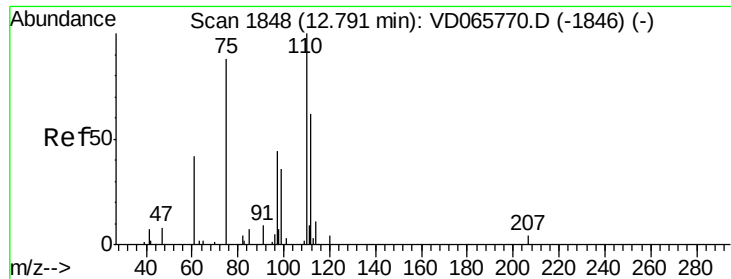
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD065866.D
Acq: 23 Jun 2020 17:58

Tgt Ion:152 Resp: 4821
Ion Ratio Lower Upper
152 100
115 65.4 28.7 86.1
150 164.5 0.0 348.0



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: 85.748 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065866.D

Acq: 23 Jun 2020 17:58

Instrument :

MSVOA_D

ClientSampleId :

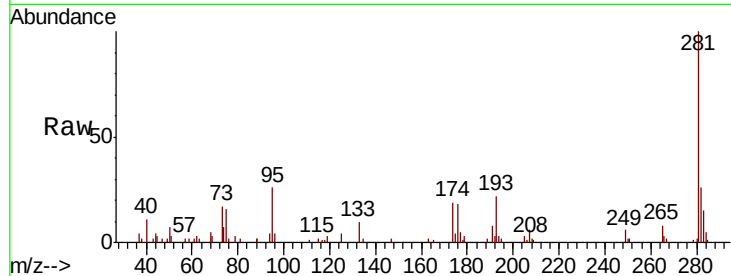
SB-20

Tot Ion: 75 Resp: 3215

Ion Ratio Lower Upper

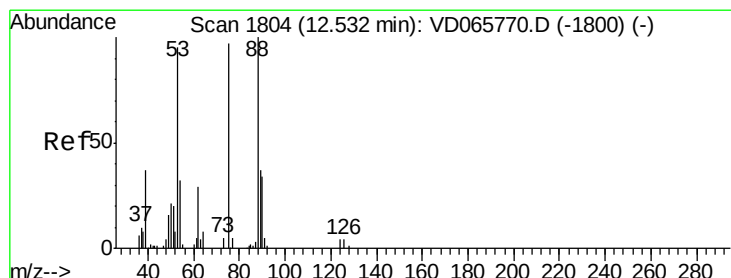
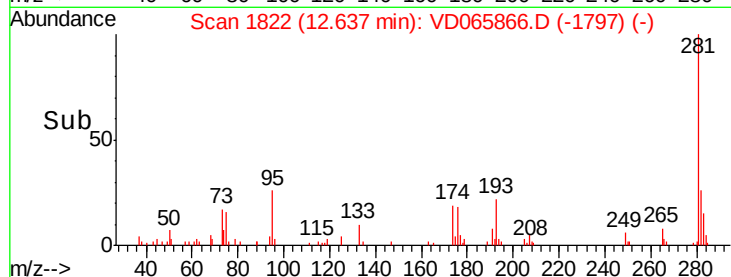
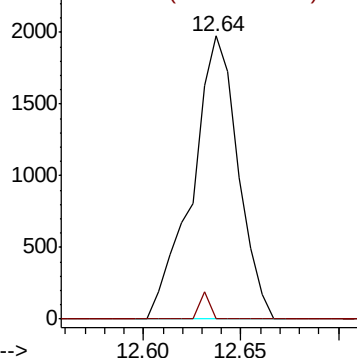
75 100

77 2.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 185.269 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065866.D

Acq: 23 Jun 2020 17:58

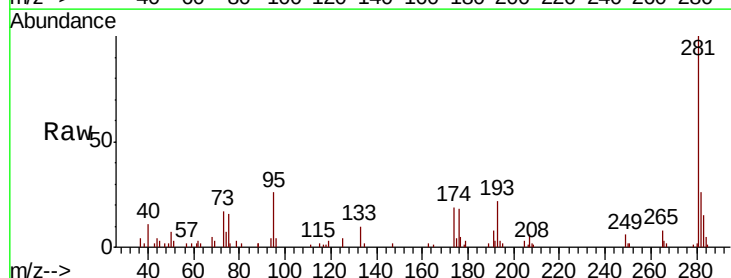
Tgt Ion: 75 Resp: 3215

Ion Ratio Lower Upper

75 100

53 0.0 82.6 123.8#

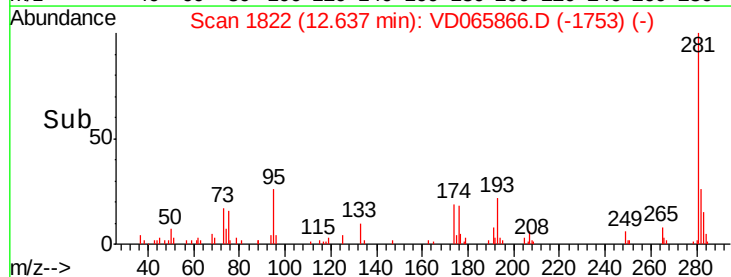
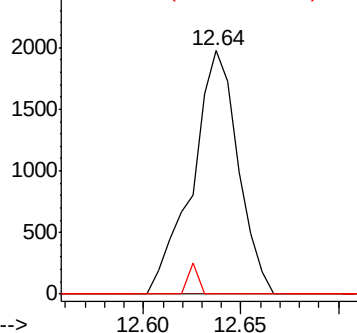
89 2.8 35.9 53.9#

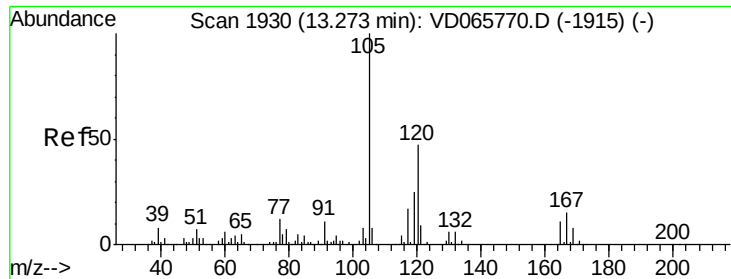


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#84

1,2,4-Trimethylbenzene

Concen: 1.319 ug/l

RT: 13.29 min Scan# 1933

Delta R.T. 0.02 min

Lab File: VD065866.D

Acq: 23 Jun 2020 17:58

Instrument :

MSVOA_D

ClientSampleId :

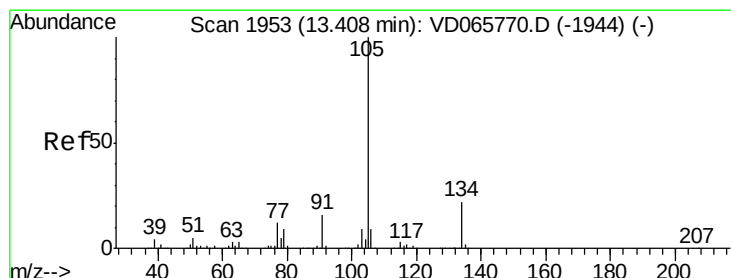
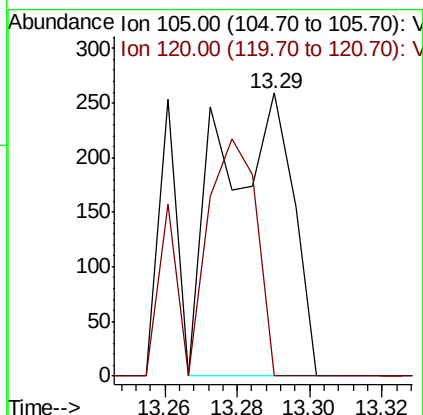
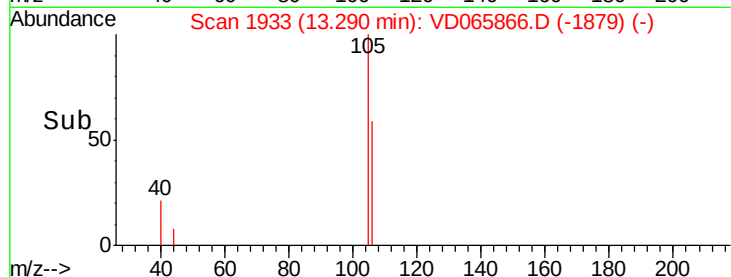
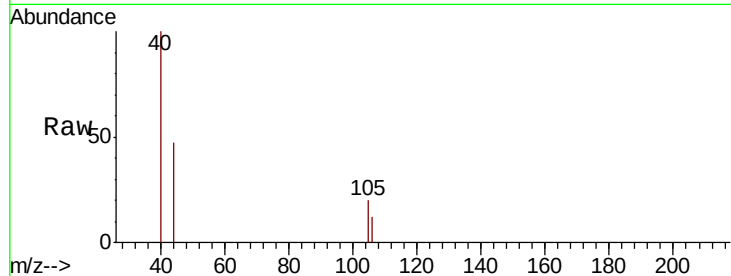
SB-20

Tot Ion:105 Resp: 355

Ion Ratio Lower Upper

105 100

120 71.8 23.3 69.8#



#85

sec-Butylbenzene

Concen: 1.093 ug/l

RT: 13.29 min Scan# 1933

Delta R.T. -0.12 min

Lab File: VD065866.D

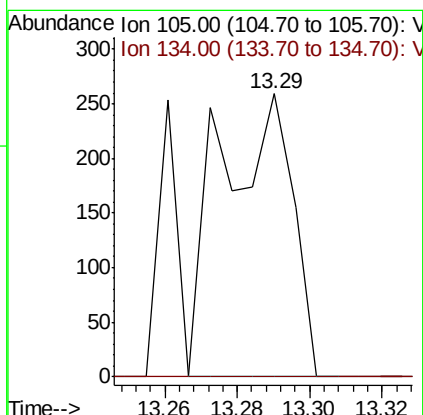
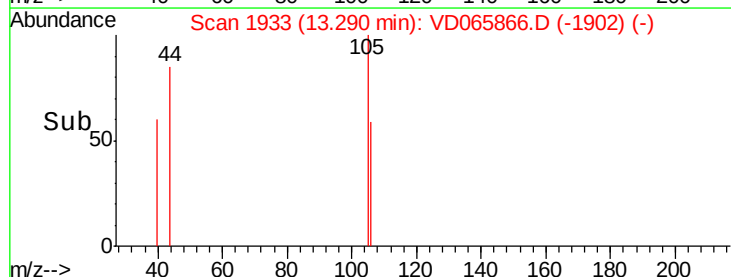
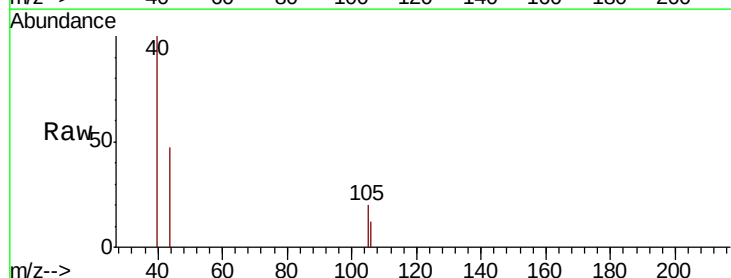
Acq: 23 Jun 2020 17:58

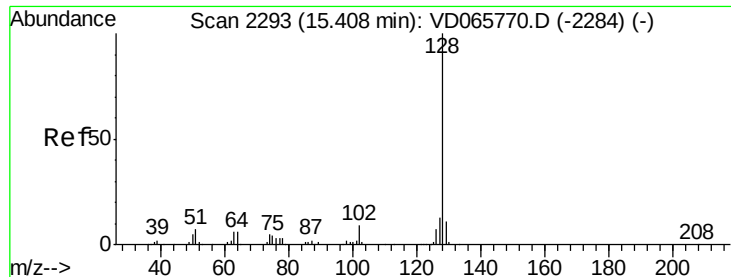
Tgt Ion:105 Resp: 355

Ion Ratio Lower Upper

105 100

134 0.0 10.4 31.4#





#95

Naphthalene

Concen: 3.098 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VD065866.D

Acq: 23 Jun 2020 17:58

Instrument :

MSVOA_D

ClientSampleId :

SB-20

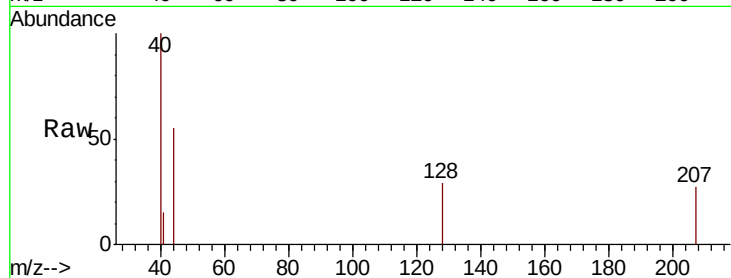
Tot Ion:128 Resp: 463

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.6 12.8#



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

