

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061820\
 Data File : VD065808.D
 Acq On : 18 Jun 2020 15:13
 Operator : VA/SY
 Sample : L2818-01
 Misc : 6.24G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-05-061720

Quant Time: Jun 19 01:02:21 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	3662	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	7043	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.66	117	6098	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	2160	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	4264	117.84	ug/l	0.00
Spiked Amount			Recovery	=	235.68%	
35) Dibromofluoromethane	7.92	113	2644	59.43	ug/l	0.00
Spiked Amount			Recovery	=	118.86%	
50) Toluene-d8	10.34	98	7091	42.75	ug/l	0.00
Spiked Amount			Recovery	=	85.50%	
62) 4-Bromofluorobenzene	12.64	95	2459	43.71	ug/l	0.00
Spiked Amount			Recovery	=	87.42%	

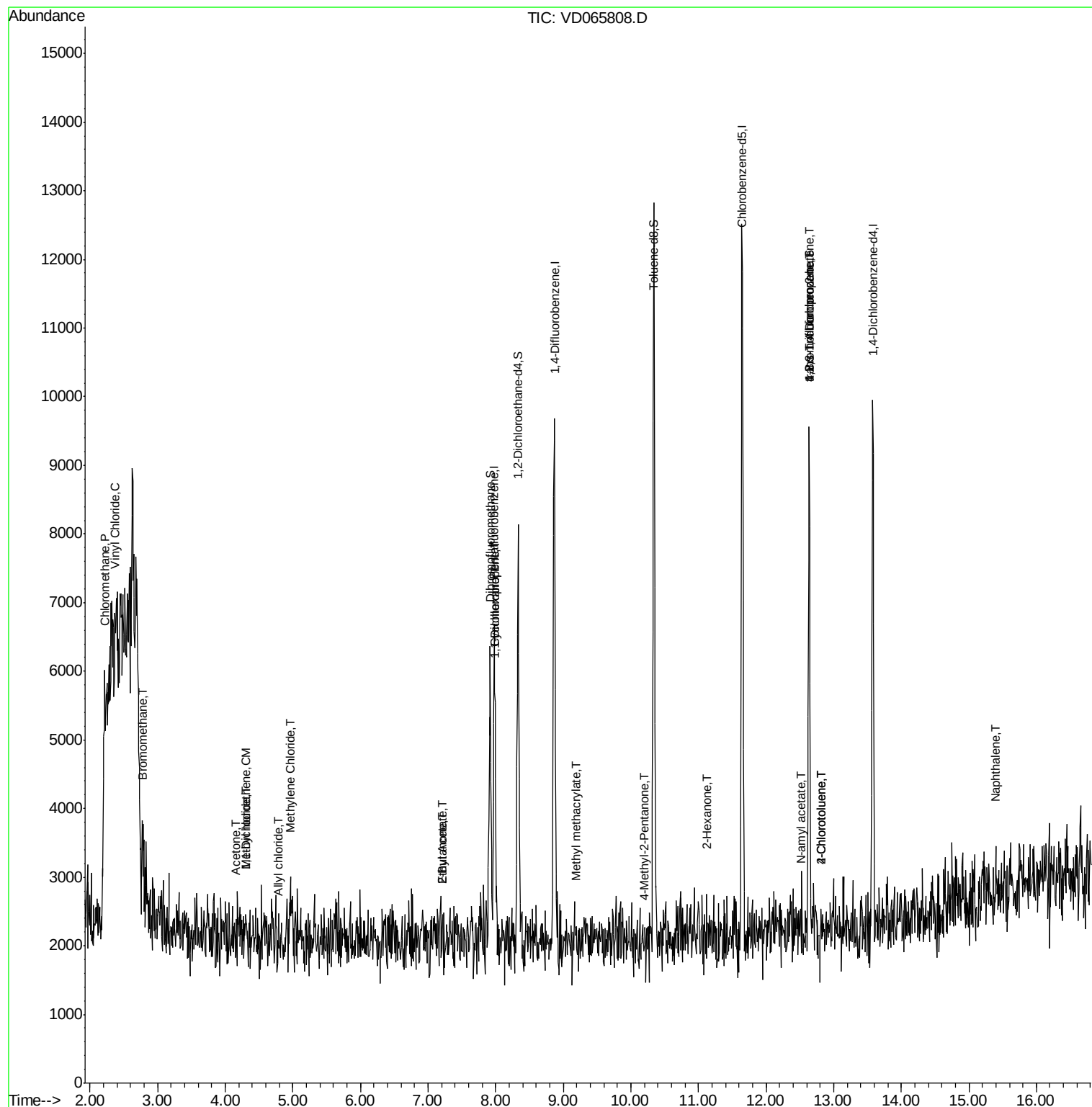
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	354	3.267	ug/l #	50
4) Vinyl Chloride	2.37	62	106	1.962	ug/l #	43
5) Bromomethane	2.79	94	772	20.432	ug/l	91
10) Methyl Iodide	4.31	142	291	8.187	ug/l #	68
12) 1,1-Dichloroethene	4.30	96	62	1.864	ug/l #	1
14) Allyl chloride	4.78	41	68	1.237	ug/l #	20
16) Acetone	4.17	43	455	66.659	ug/l #	47
18) Methyl Acetate	4.70	43	54	Below Cal	#	52
20) Methylene Chloride	4.96	84	268	3.231	ug/l #	31
25) 2-Butanone	7.20	43	68	7.214	ug/l #	52
31) Cyclohexane	7.99	56	69	1.063	ug/l #	16
36) 1,1-Dichloropropene	8.00	75	112	1.660	ug/l #	41
37) Ethyl Acetate	7.20	43	68	2.559	ug/l #	70
48) Methyl methacrylate	9.20	41	56	2.189	ug/l #	15
51) 4-Methyl-2-Pentanone	10.20	43	63	2.433	ug/l #	37
59) 2-Hexanone	11.11	43	62	3.551	ug/l #	26
74) N-amyl acetate	12.51	43	69	2.142	ug/l #	44
76) 1,2,3-Trichloropropane	12.64	75	1125	66.970	ug/l #	100
79) 2-Chlorotoluene	12.82	91	129	1.349	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.64	75	1125	144.696	ug/l #	9
82) 4-Chlorotoluene	12.82	91	129	1.257	ug/l #	40
95) Naphthalene	15.41	128	408	6.093	ug/l #	69

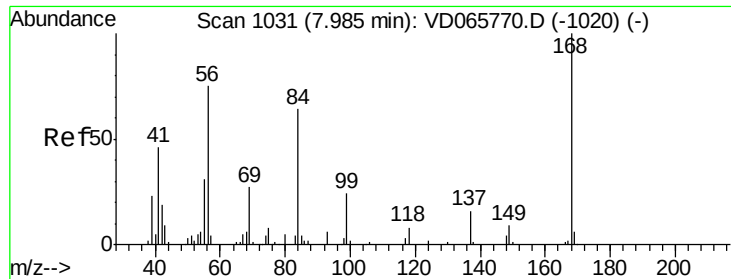
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D060520S.M
Quant Title : SW846 8260
QLast Update : Fri Jun 05 13:07:30 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

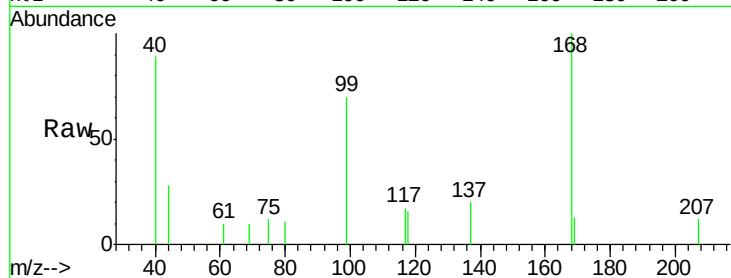
TR-05-061720

Tot Ion:168 Resp: 3662

Ion Ratio Lower Upper

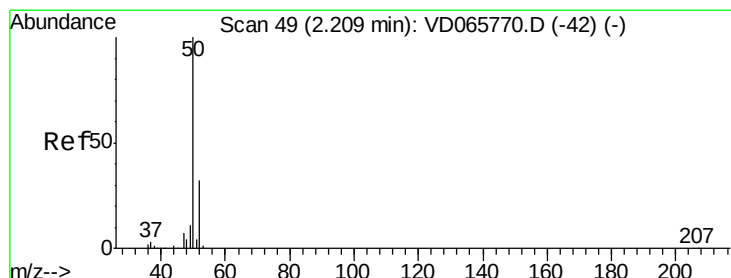
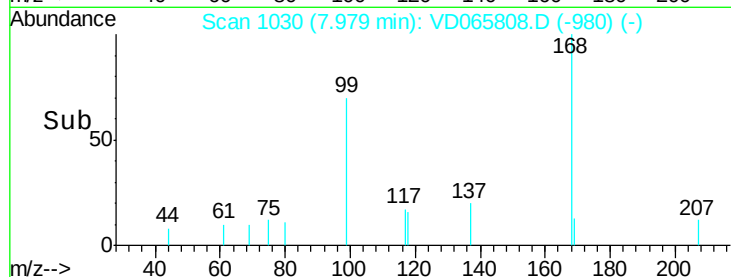
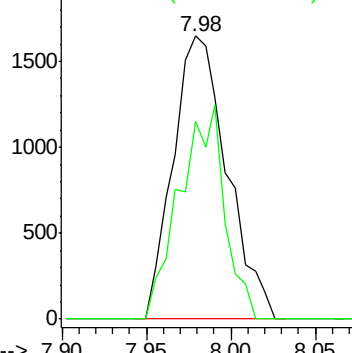
168 100

99 69.8 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: 3.267 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065808.D

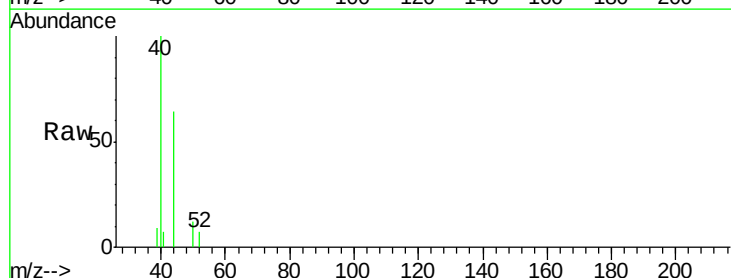
Acq: 18 Jun 2020 15:13

Tgt Ion: 50 Resp: 354

Ion Ratio Lower Upper

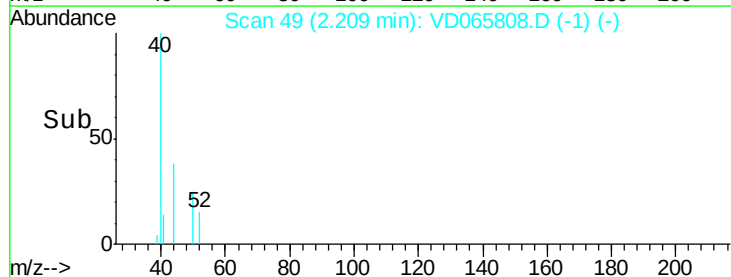
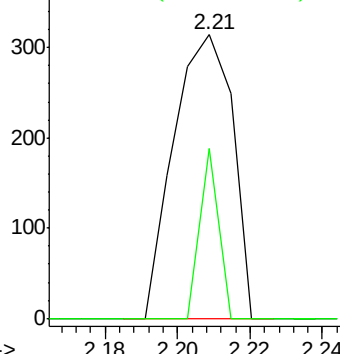
50 100

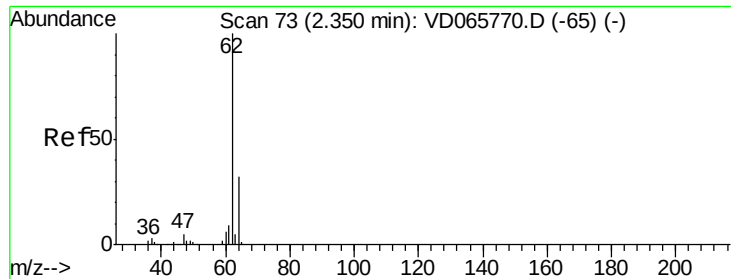
52 59.9 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#4

Vinyl Chloride

Concen: 1.962 ug/l

RT: 2.37 min Scan# 76

Delta R.T. 0.02 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

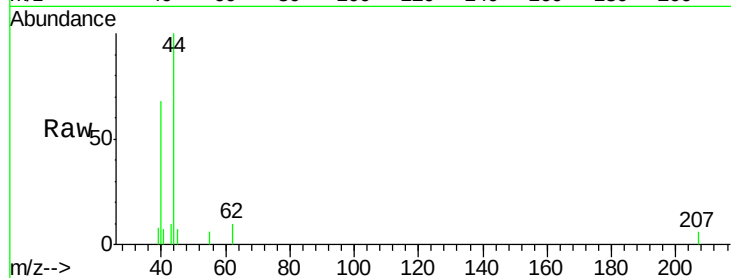
TR-05-061720

Tot Ion: 62 Resp: 106

Ion Ratio Lower Upper

62 100

64 0.0 25.3 37.9#



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC

2.37

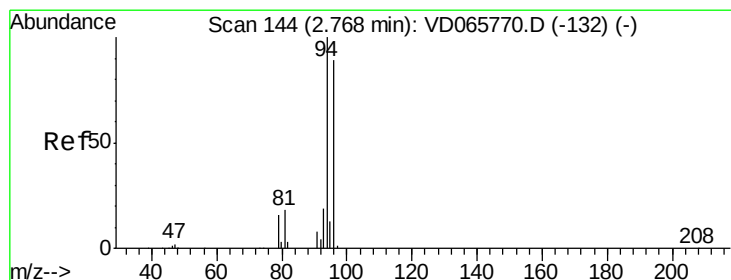
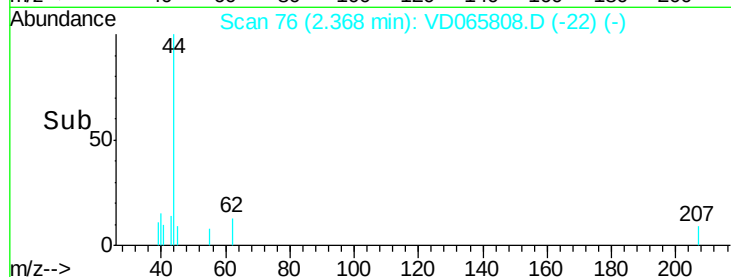
300

200

100

0

Time-->



#5

Bromomethane

Concen: 20.432 ug/l

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD065808.D

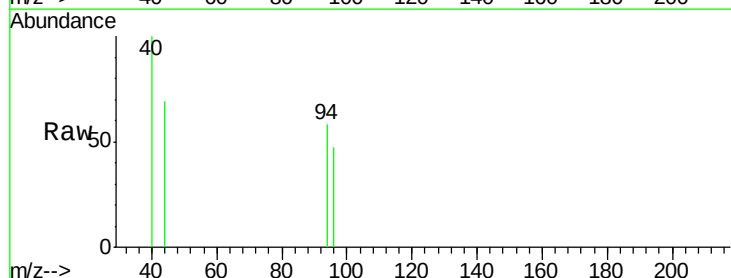
Acq: 18 Jun 2020 15:13

Tgt Ion: 94 Resp: 772

Ion Ratio Lower Upper

94 100

96 80.5 71.4 107.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.79

800

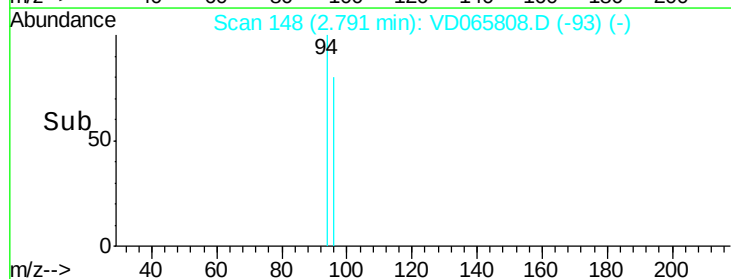
600

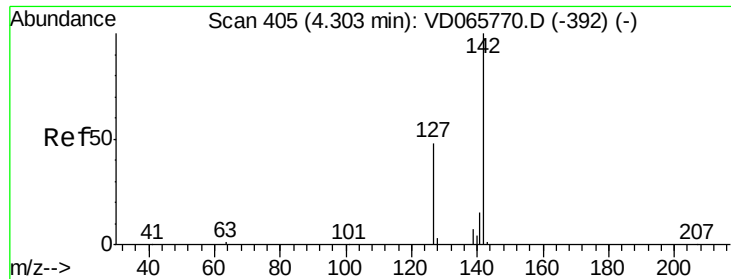
400

200

0

Time-->

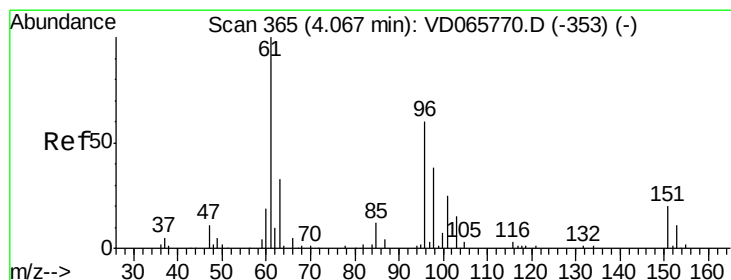
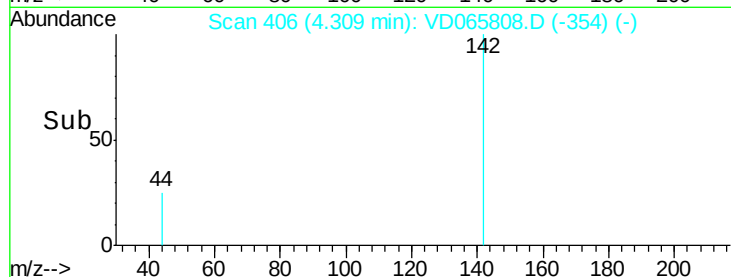
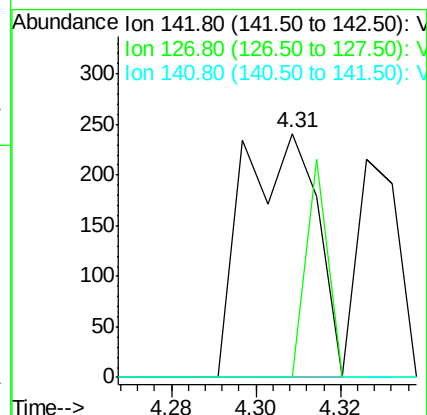
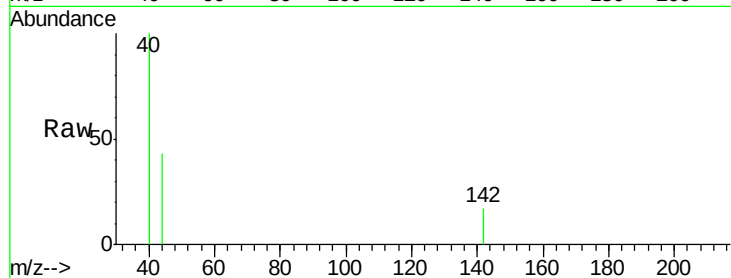




#10
Methyl Iodide
Concen: 8.187 ug/l
RT: 4.31 min Scan# 406
Delta R.T. 0.01 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

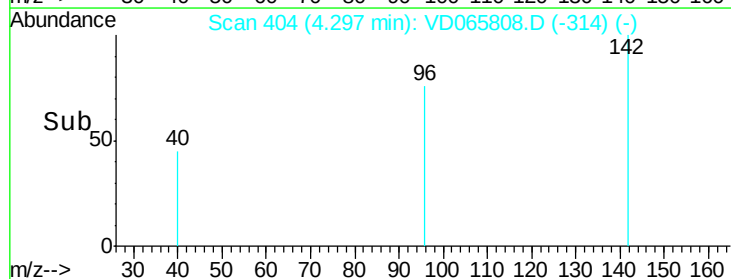
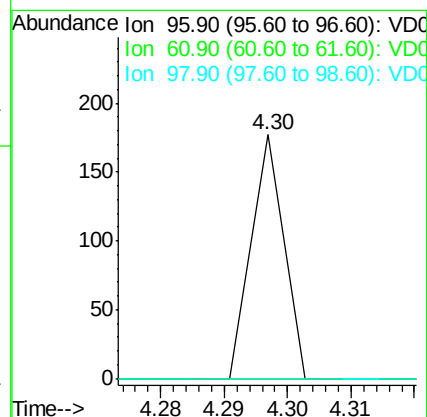
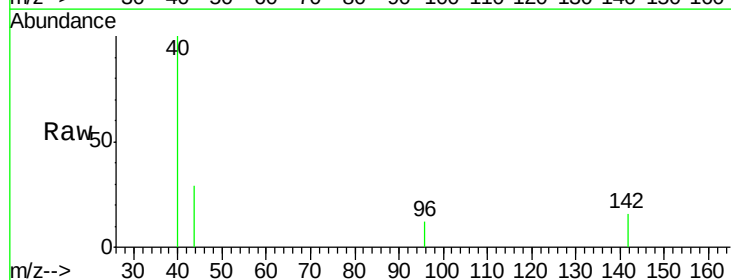
Instrument :
MSVOA_D
ClientSampleId :
TR-05-061720

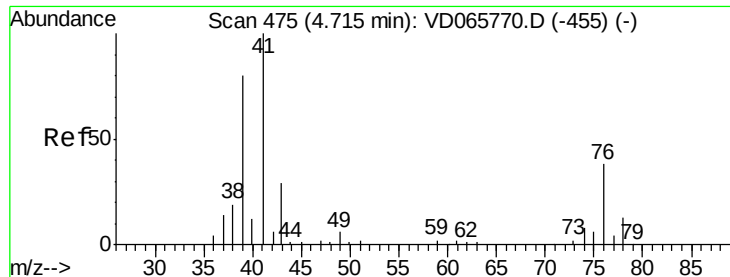
Tot Ion:142 Resp: 291
Ion Ratio Lower Upper
142 100
127 26.1 37.6 56.4#
141 0.0 12.1 18.1#



#12
1,1-Dichloroethene
Concen: 1.864 ug/l
RT: 4.30 min Scan# 404
Delta R.T. 0.23 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

Tgt Ion: 96 Resp: 62
Ion Ratio Lower Upper
96 100
61 0.0 132.3 198.5#
98 0.0 50.7 76.1#

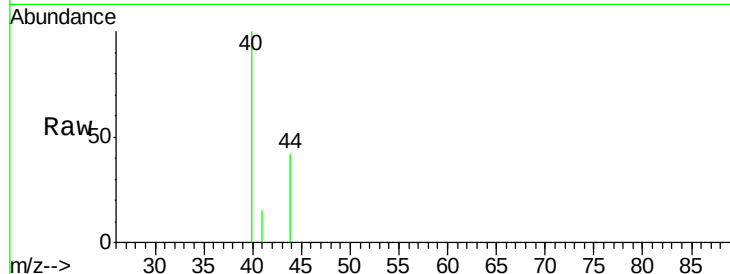




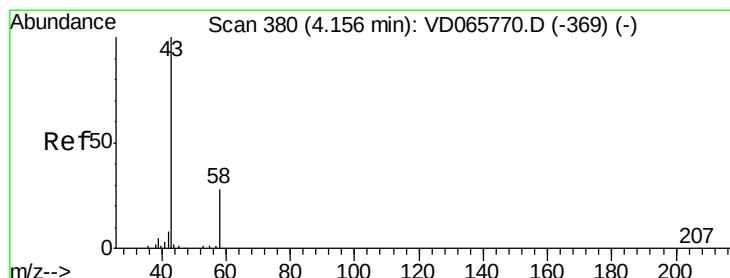
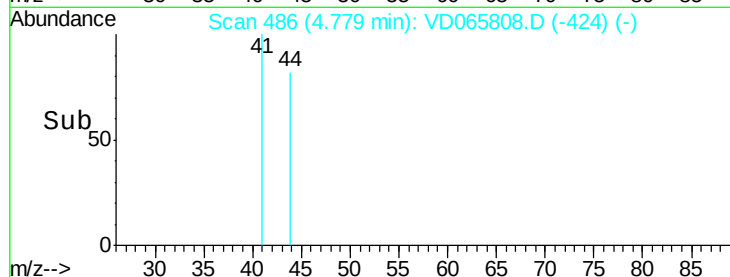
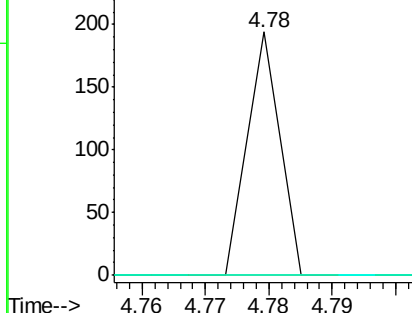
#14
Allvl chloride
Concen: 1.237 ug/l
RT: 4.78 min Scan# 486
Delta R.T. 0.06 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

Instrument :
MSVOA_D
ClientSampleId :
TR-05-061720

Tot Ion: 41 Resp: 68
Ion Ratio Lower Upper
41 100
39 0.0 60.9 91.3#
76 0.0 28.9 43.3#

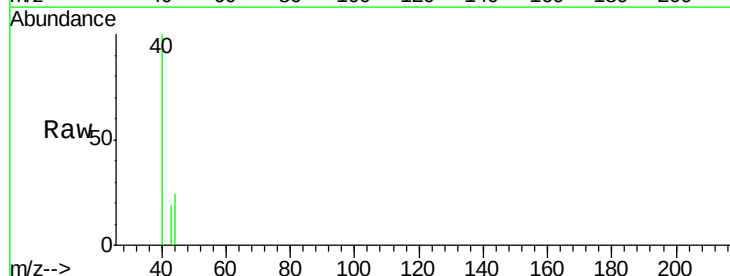


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 75.90 (75.60 to 76.60): VDC

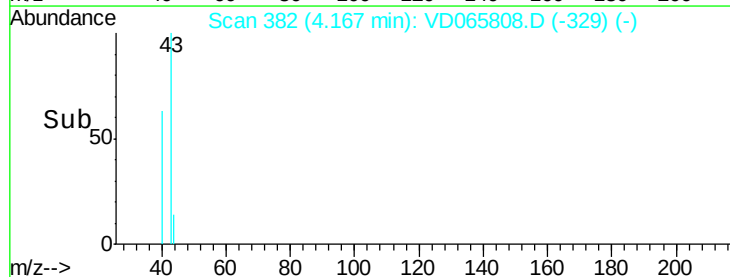
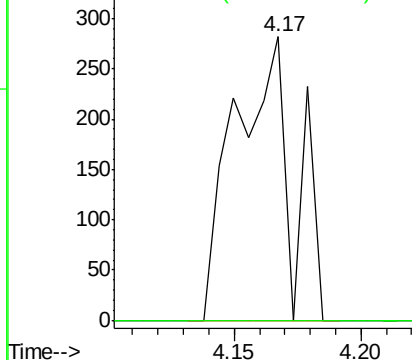


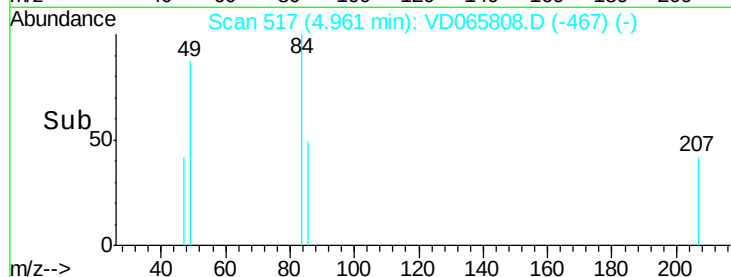
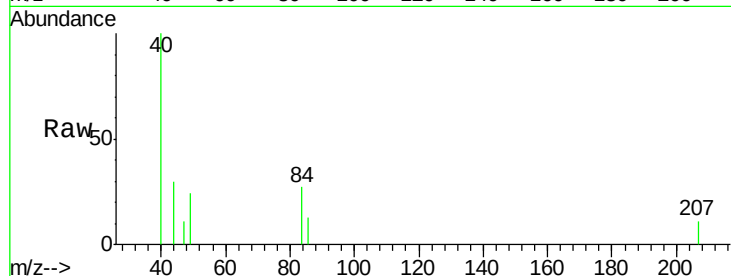
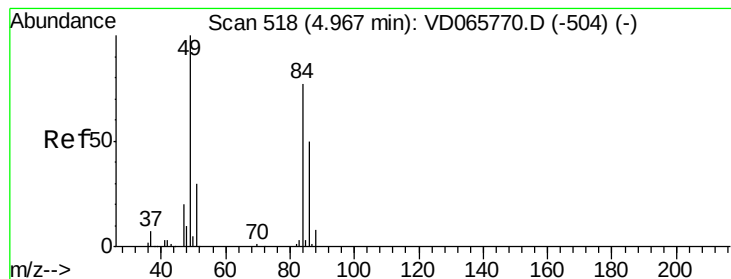
#16
Acetone
Concen: 66.659 ug/l
RT: 4.17 min Scan# 382
Delta R.T. 0.01 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

Tgt Ion: 43 Resp: 455
Ion Ratio Lower Upper
43 100
58 0.0 22.3 33.5#



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





#20

Methylene Chloride

Concen: 3.231 ug/l

RT: 4.96 min Scan# 517

Delta R.T. -0.01 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

TR-05-061720

Tot Ion: 84 Resp: 268

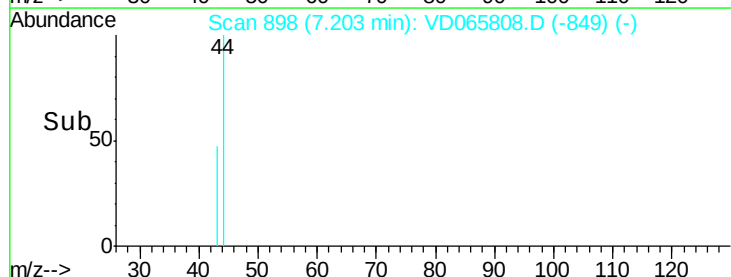
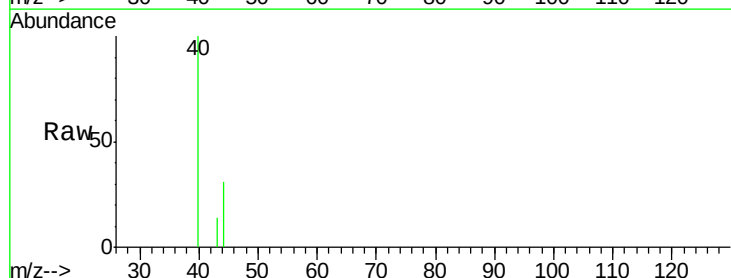
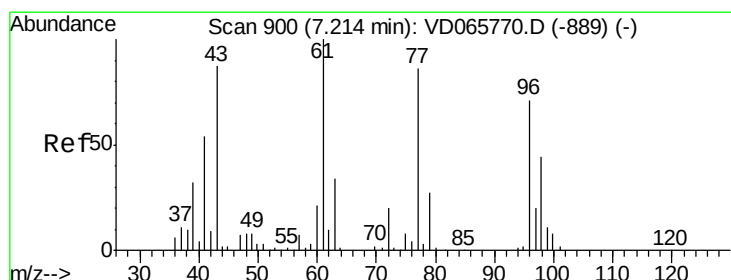
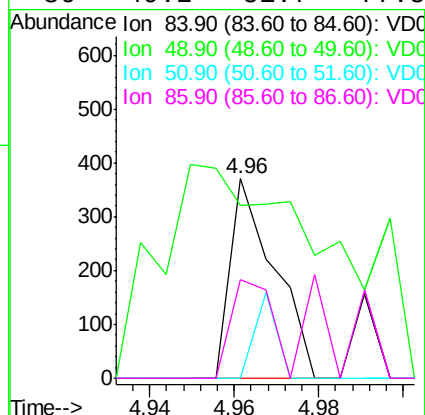
Ion Ratio Lower Upper

84 100

49 18.4 103.4 155.0#

51 0.0 31.4 47.2#

86 49.2 51.7 77.5#



#25

2-Butanone

Concen: 7.214 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD065808.D

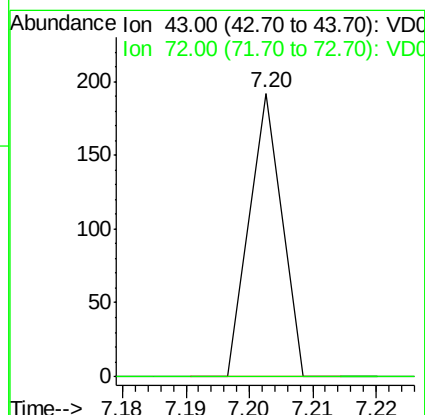
Acq: 18 Jun 2020 15:13

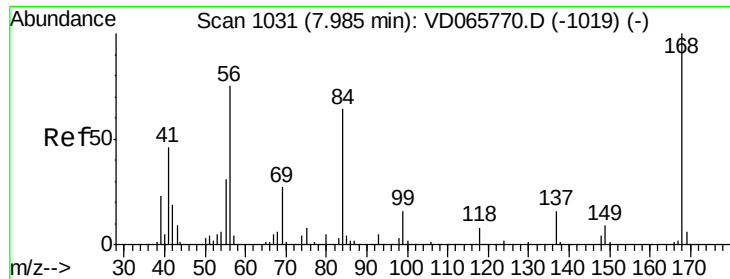
Tgt Ion: 43 Resp: 68

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#

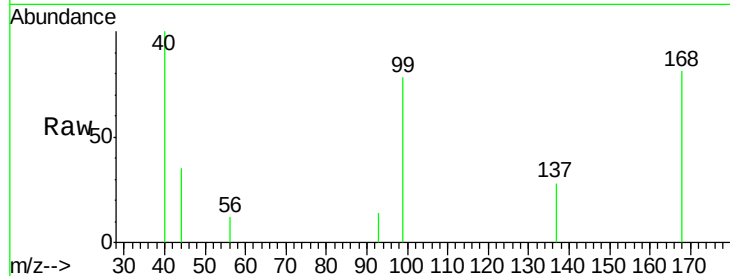




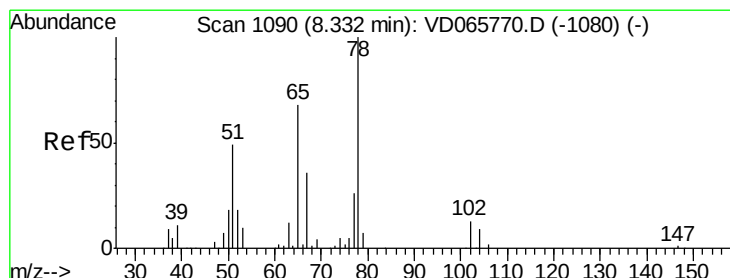
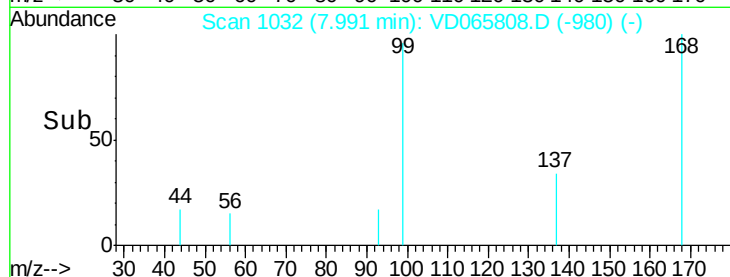
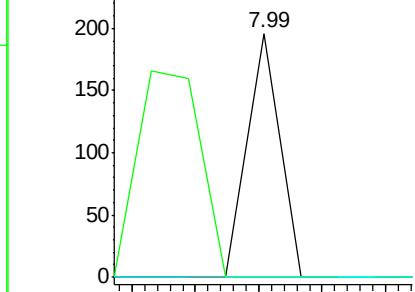
#31
Cyclohexane
Concen: 1.063 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

Instrument :
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ClientSampleId :
TR-05-061720

Tot Ion: 56 Resp: 69
Ion Ratio Lower Upper
56 100
69 0.0 28.5 42.7#
84 0.0 68.4 102.6#

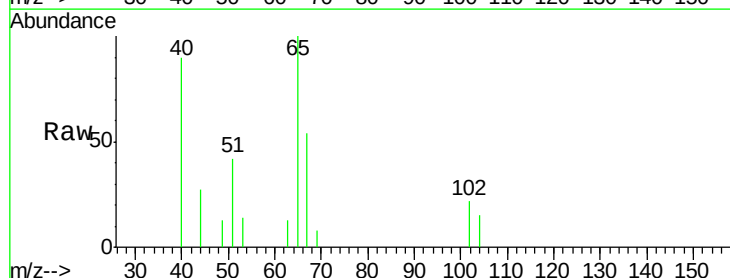


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

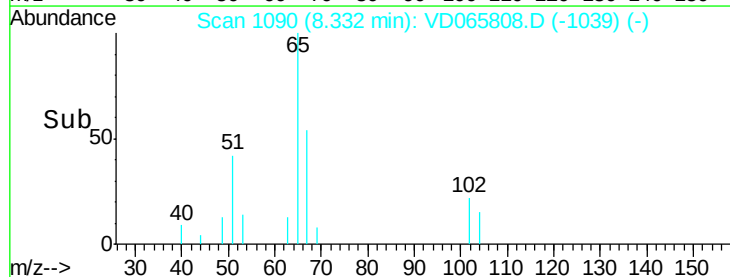
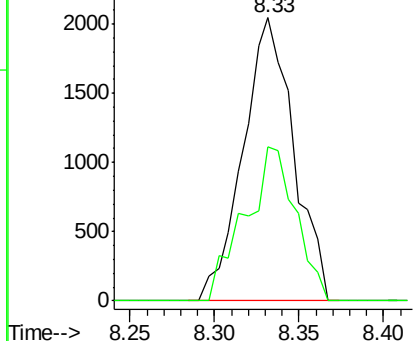


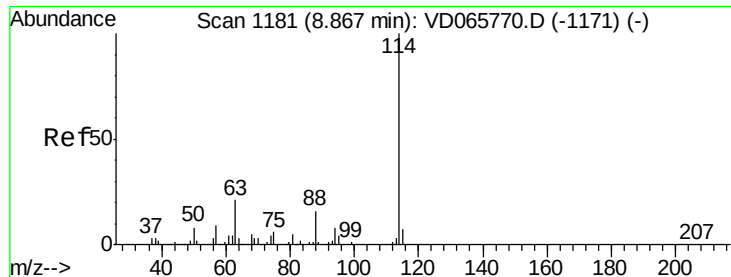
#33
1,2-Dichloroethane-d4
Concen: 117.837 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

Tgt Ion: 65 Resp: 4264
Ion Ratio Lower Upper
65 100
67 54.5 0.0 103.6



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

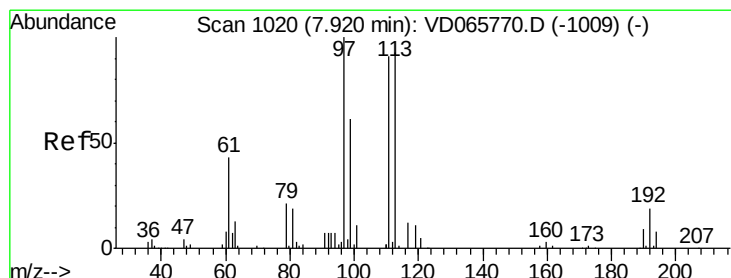
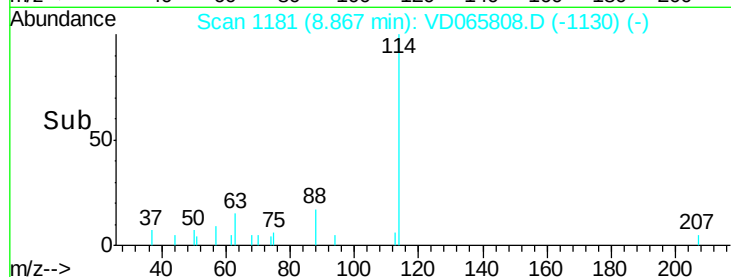
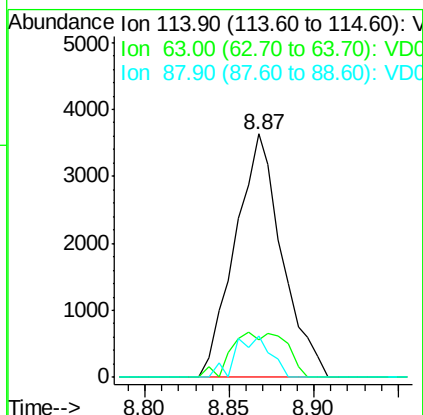
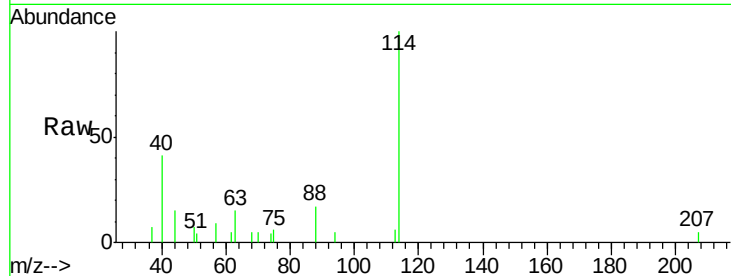




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065808.D
 Acq: 18 Jun 2020 15:13

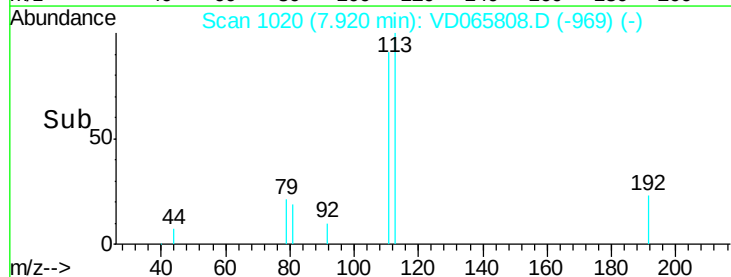
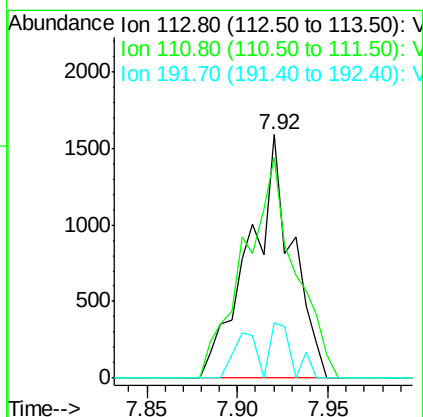
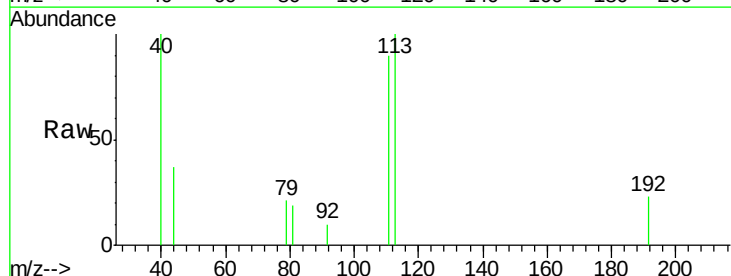
Instrument :
 MSVOA_D
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 TR-05-061720

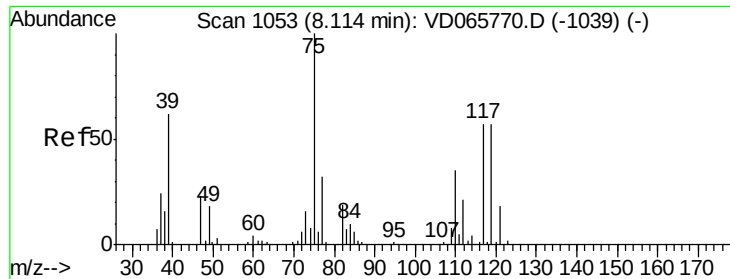
Tot Ion:114 Resp: 7043
 Ion Ratio Lower Upper
 114 100
 63 15.4 0.0 41.8
 88 16.8 0.0 32.0



#35
 Dibromofluoromethane
 Concen: 59.432 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD065808.D
 Acq: 18 Jun 2020 15:13

Tgt Ion:113 Resp: 2644
 Ion Ratio Lower Upper
 113 100
 111 106.6 83.4 125.0
 192 11.5 15.7 23.5#





#36

1,1-Dichloropropene

Concen: 1.660 ug/l

RT: 8.00 min Scan# 1033

Delta R.T. -0.12 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

TR-05-061720

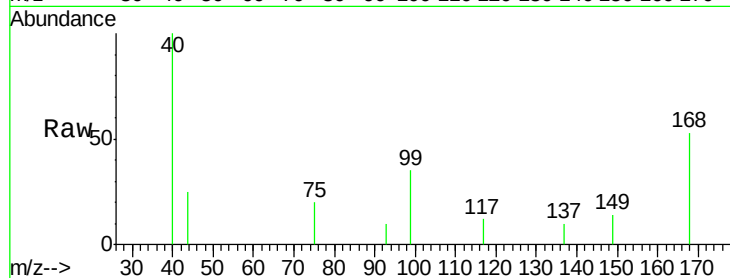
Tot Ion: 75 Resp: 112

Ion Ratio Lower Upper

75 100

110 0.0 17.6 52.8#

77 0.0 25.1 37.7#

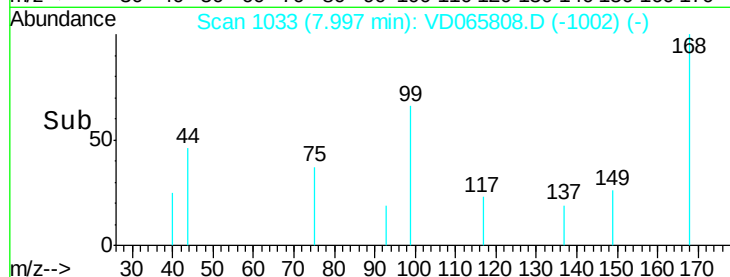


Abundance Ion 74.90 (74.60 to 75.60): VDC

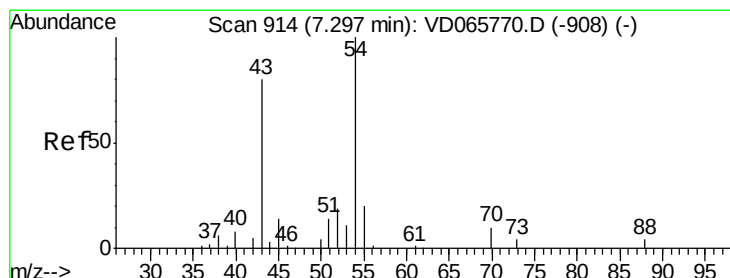
Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Time-->



Time-->



#37

Ethyl Acetate

Concen: 2.559 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.09 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

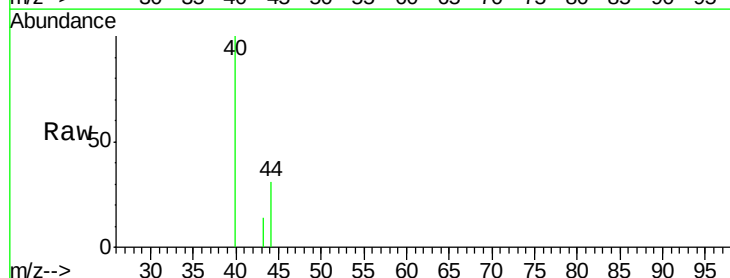
Tgt Ion: 43 Resp: 68

Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

70 0.0 7.5 11.3#

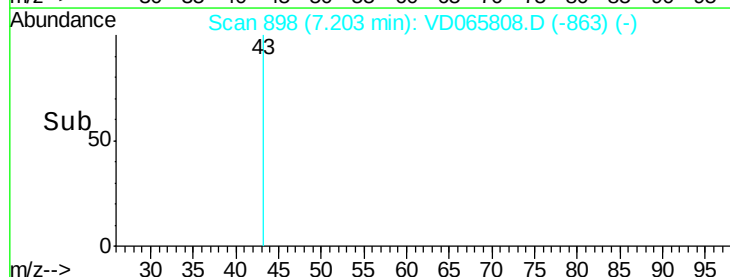


Abundance Ion 43.00 (42.70 to 43.70): VDC

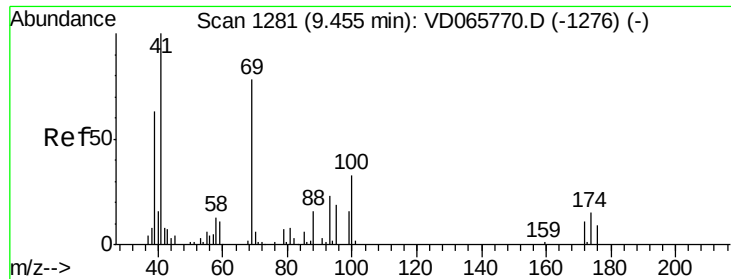
Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC

Time-->



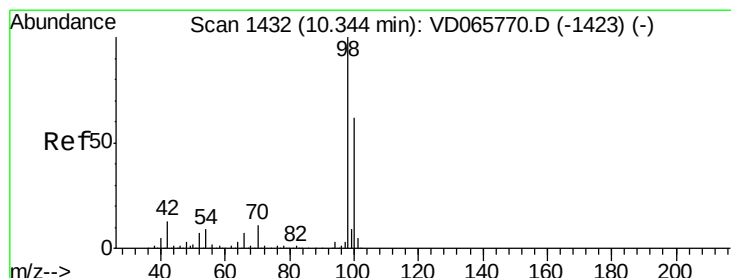
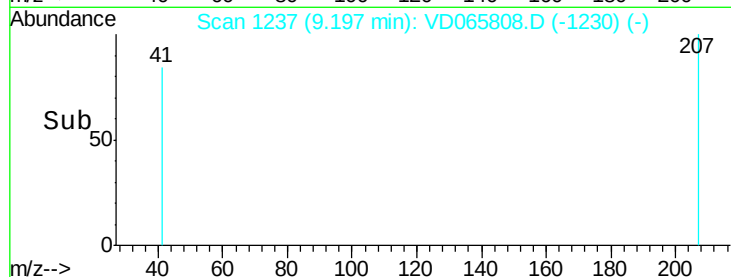
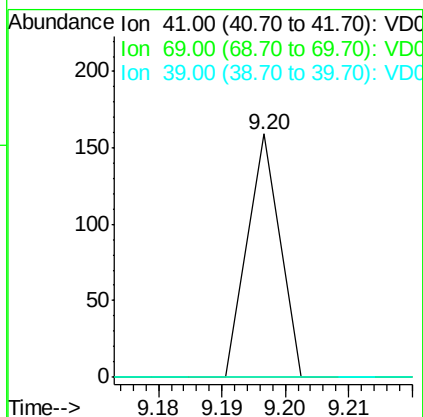
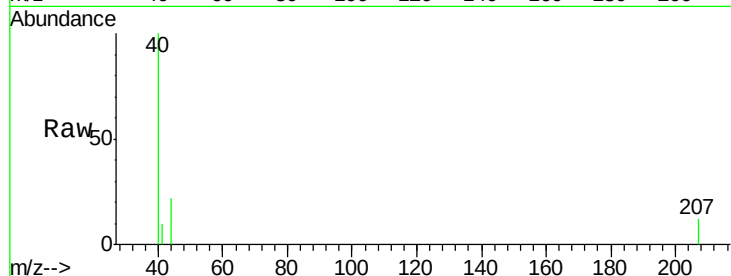
Time-->



#48
Methyl methacrylate
Concen: 2.189 ug/l
RT: 9.20 min Scan# 1237
Delta R.T. -0.26 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

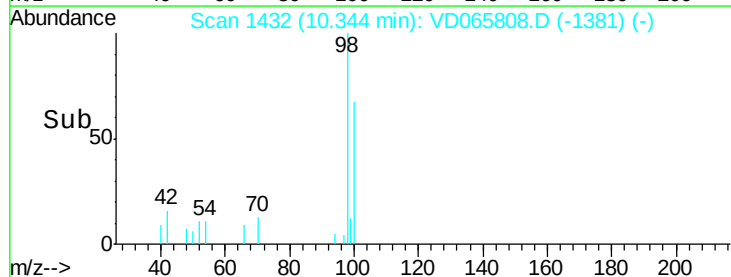
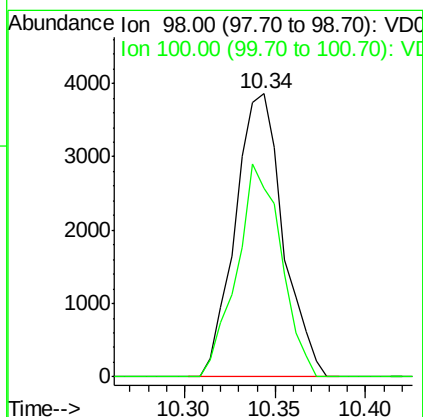
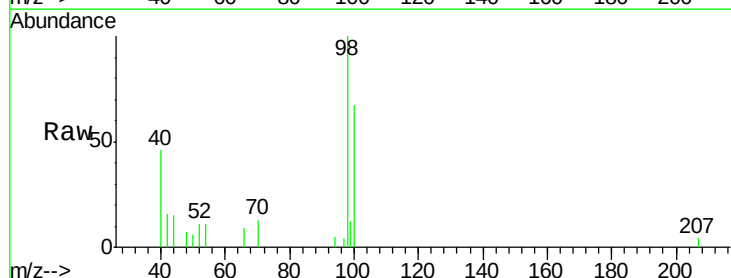
Instrument :
MSVOA_D
ClientSampleId :
TR-05-061720

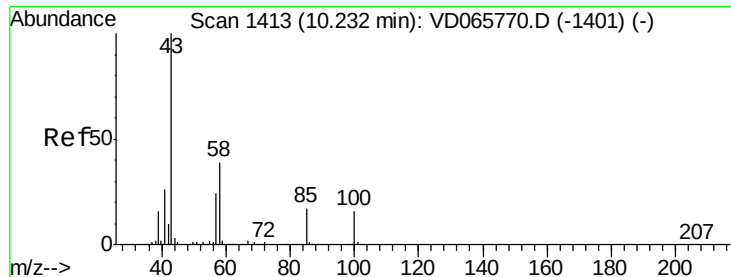
Tot Ion	41.00	Resp	56
Ion	Ratio	Lower	Upper
41	100		
69	0.0	60.9	91.3#
39	0.0	48.1	72.1#



#50
Toluene-d8
Concen: 42.745 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

Tgt Ion	98	Resp	7091
Ion	Ratio	Lower	Upper
98	100		
100	69.8	51.4	77.2

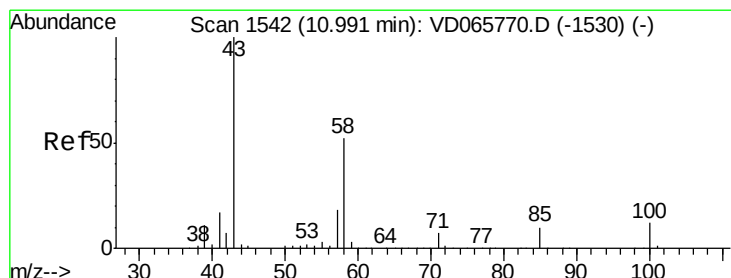
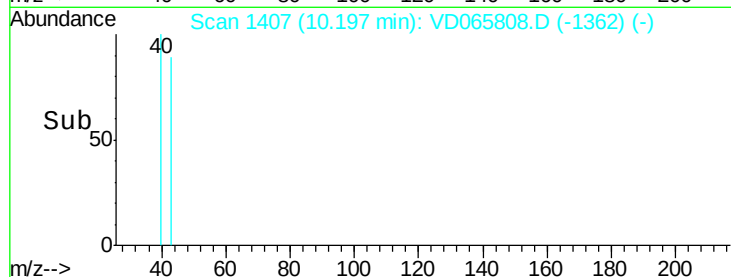
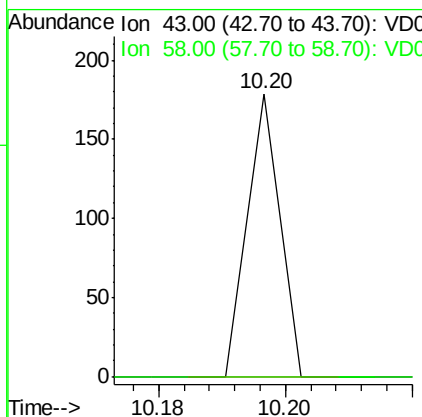
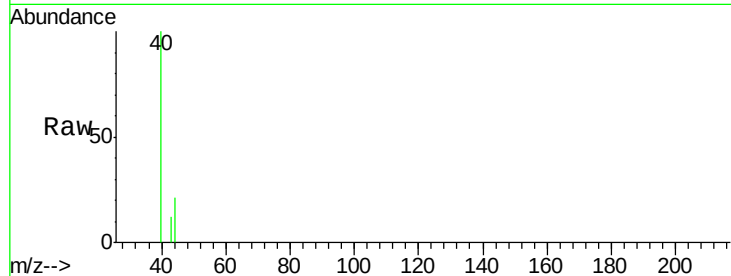




#51
4-Methyl-2-Pentanone
Concen: 2.433 ug/l
RT: 10.20 min Scan# 1407
Delta R.T. -0.04 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

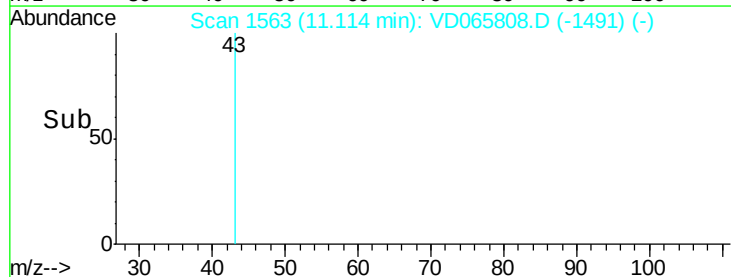
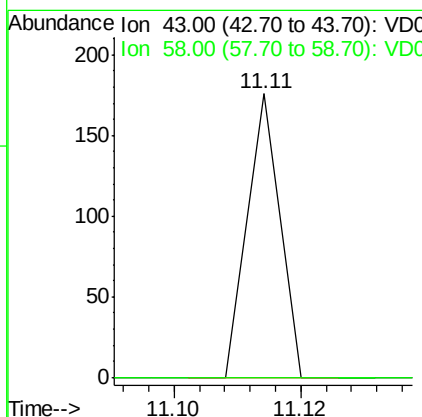
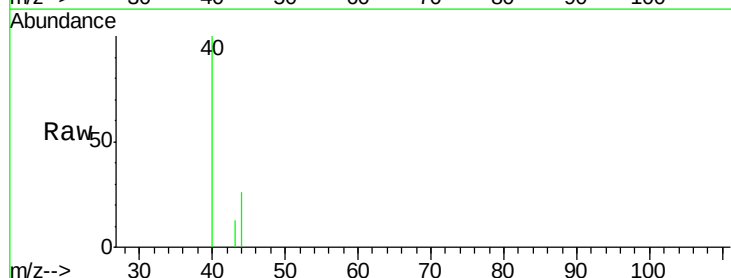
Instrument :
MSVOA_D
ClientSampleId :
TR-05-061720

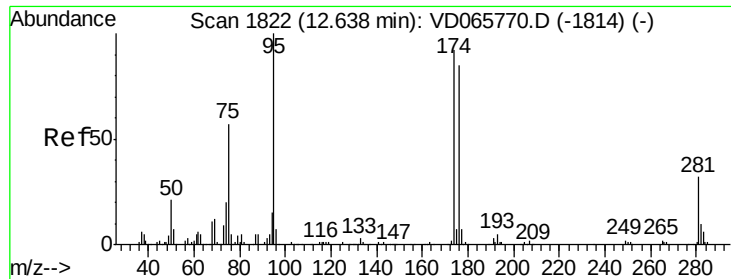
Tot Ion: 43 Resp: 63
Ion Ratio Lower Upper
43 100
58 0.0 30.7 46.1#



#59
2-Hexanone
Concen: 3.551 ug/l
RT: 11.11 min Scan# 1563
Delta R.T. 0.12 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

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





#62

4-Bromofluorobenzene

Concen: 43.709 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

TR-05-061720

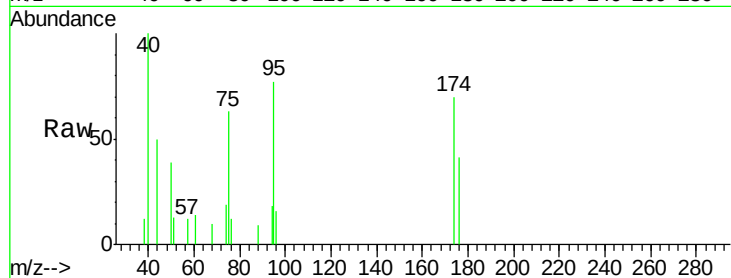
Tot Ion: 95 Resp: 2459

Ion Ratio Lower Upper

95 100

174 73.6 0.0 175.2

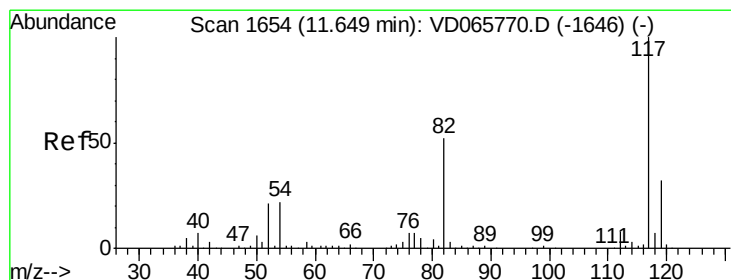
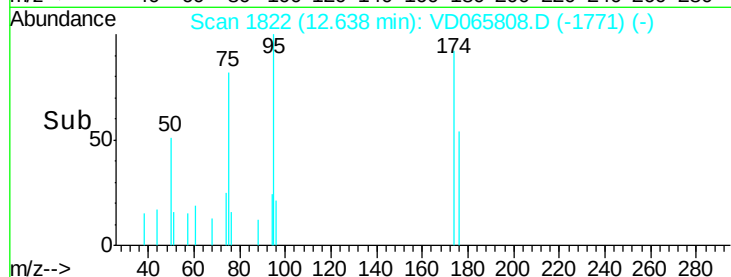
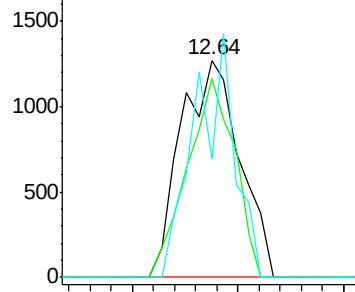
176 75.6 0.0 163.0



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: VD065808.D

Acq: 18 Jun 2020 15:13

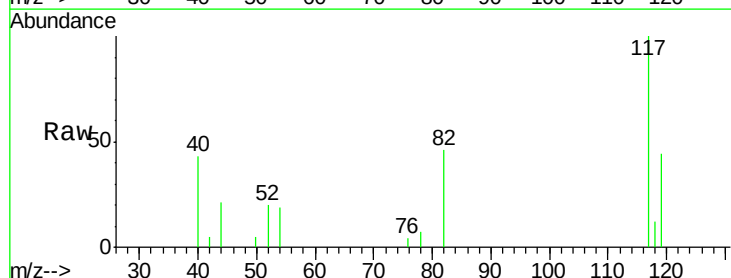
Tgt Ion: 117 Resp: 6098

Ion Ratio Lower Upper

117 100

82 46.2 41.9 62.9

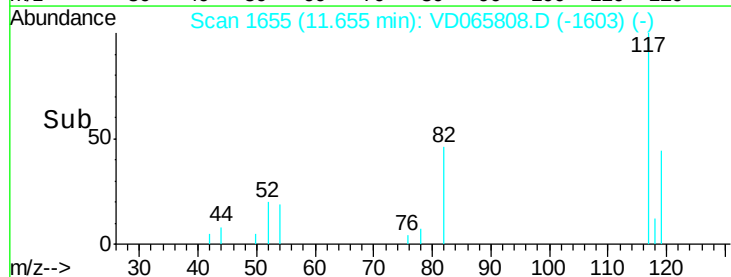
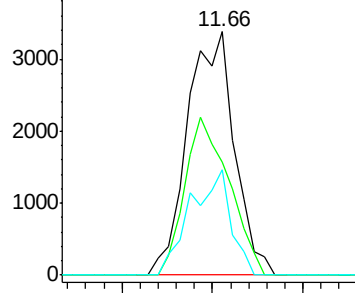
119 43.5 25.3 37.9#

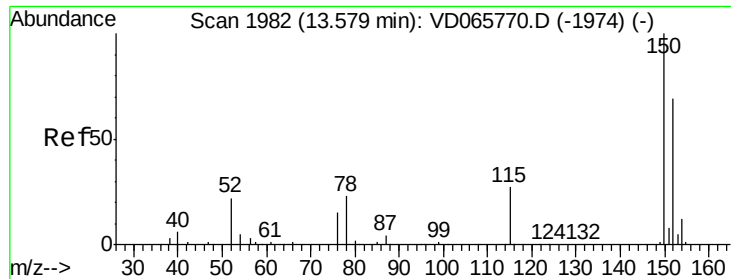


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



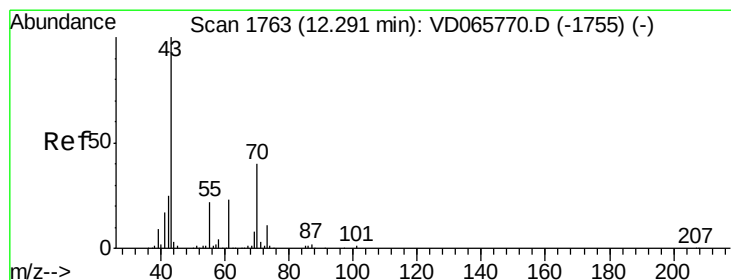
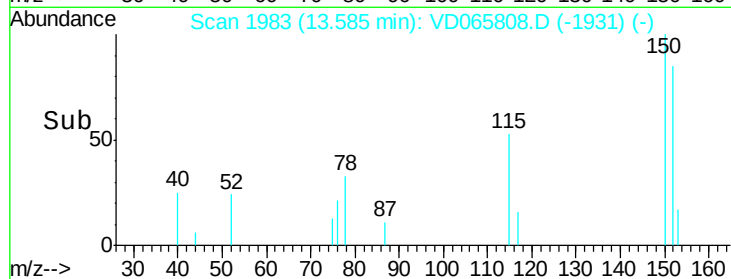
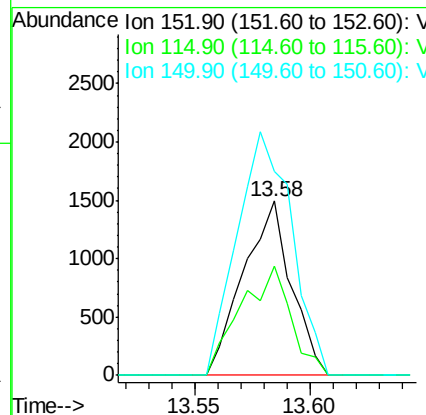
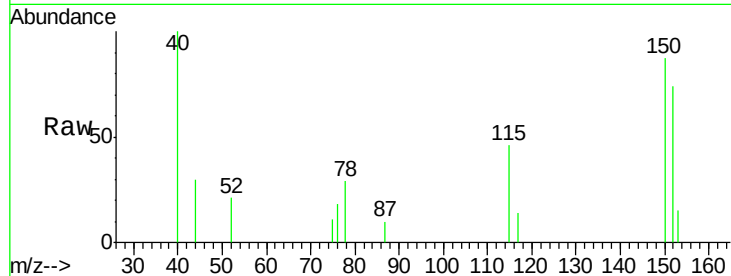


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

Instrument :
MSVOA_D
ClientSampleId :
TR-05-061720

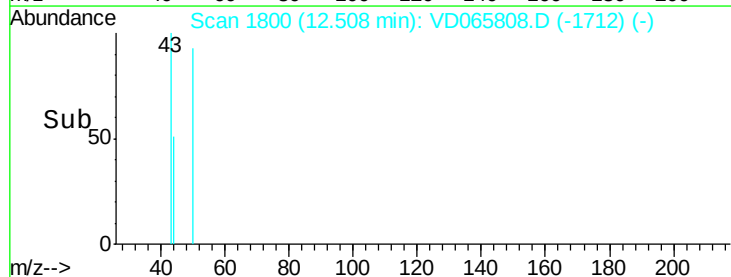
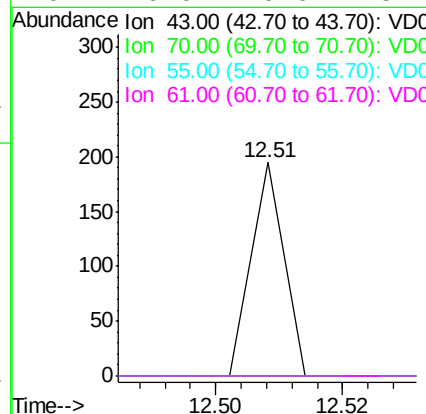
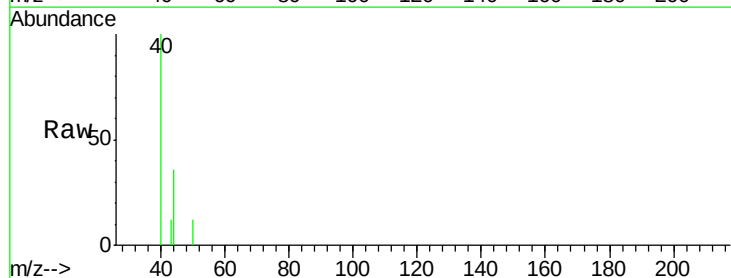
Tot Ion:152 Resp: 2160
Ion Ratio Lower Upper
152 100
115 65.6 28.7 86.1
150 159.0 0.0 348.0

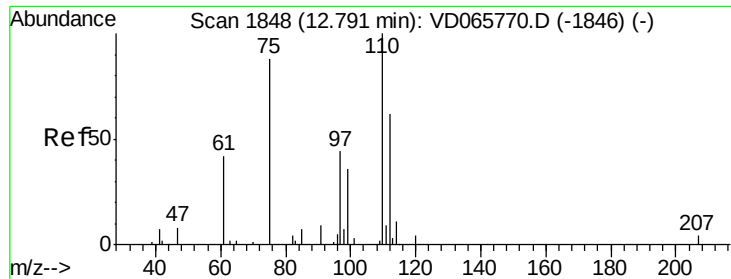


#74

N-ethyl acetate
Concen: 2.142 ug/l
RT: 12.51 min Scan# 1800
Delta R.T. 0.22 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

Tgt Ion: 43 Resp: 69
Ion Ratio Lower Upper
43 100
70 0.0 32.3 48.5#
55 0.0 19.0 28.4#
61 0.0 19.0 28.4#





#76

1,2,3-Trichloropropane

Concen: 66.970 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

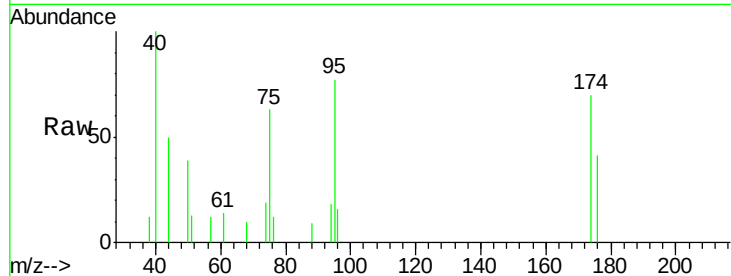
TR-05-061720

Tot Ion: 75 Resp: 1125

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

12.64

1200

1000

800

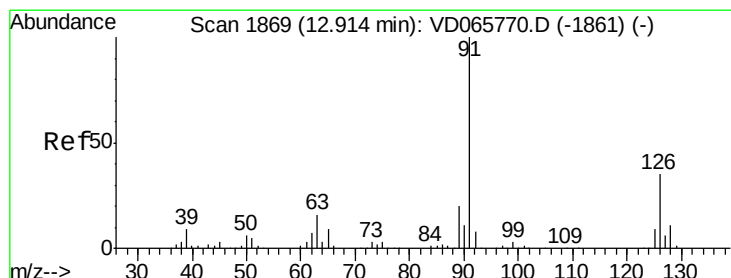
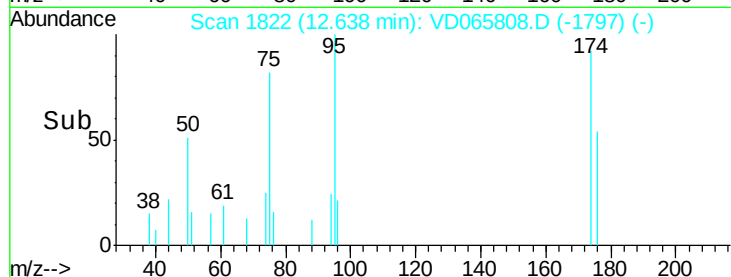
600

400

200

0

Time-->



#79

2-Chlorotoluene

Concen: 1.349 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. -0.09 min

Lab File: VD065808.D

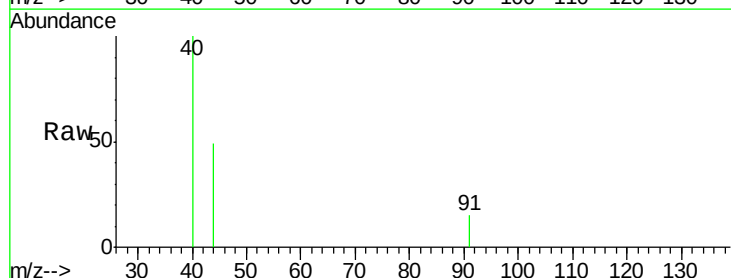
Acq: 18 Jun 2020 15:13

Tgt Ion: 91 Resp: 129

Ion Ratio Lower Upper

91 100

126 0.0 17.5 52.6#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V

12.82

200

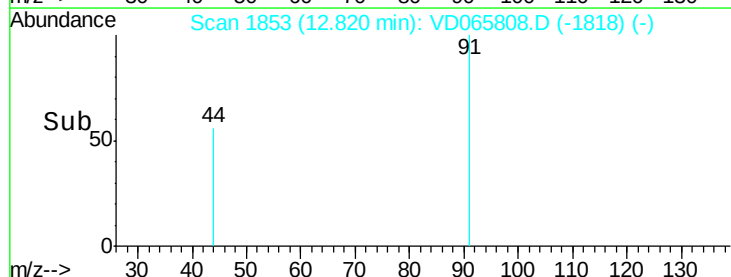
150

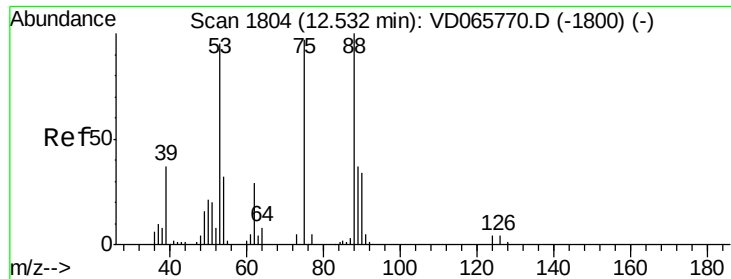
100

50

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 144.696 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

TR-05-061720

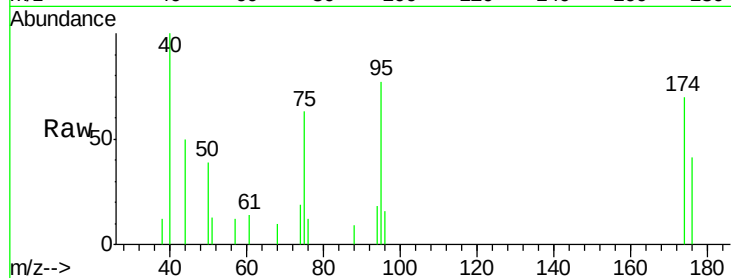
Tot Ion: 75 Resp: 1125

Ion Ratio Lower Upper

75 100

53 0.0 82.6 123.8#

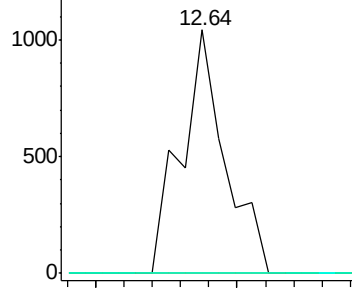
89 0.0 35.9 53.9#



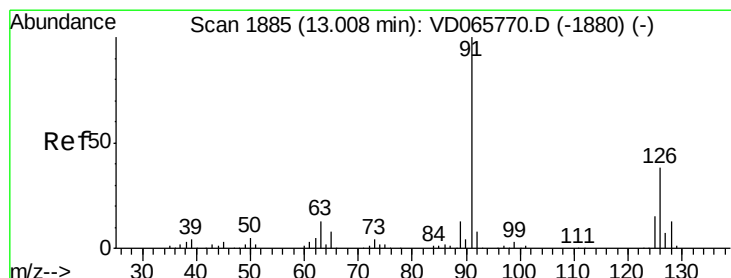
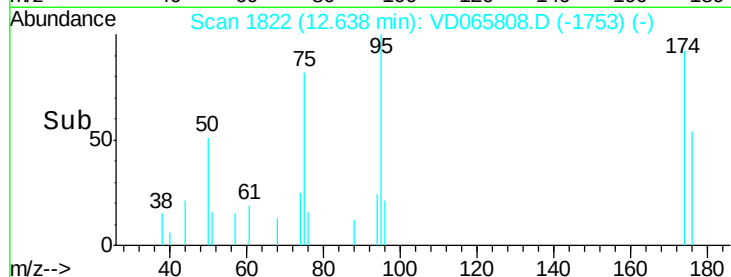
Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



Time-->



#82

4-Chlorotoluene

Concen: 1.257 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. -0.19 min

Lab File: VD065808.D

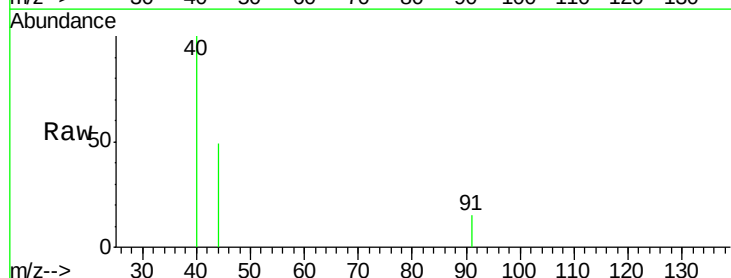
Acq: 18 Jun 2020 15:13

Tgt Ion: 91 Resp: 129

Ion Ratio Lower Upper

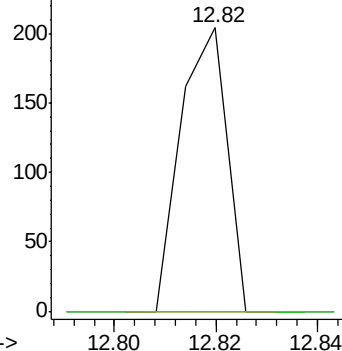
91 100

126 0.0 17.6 52.8#

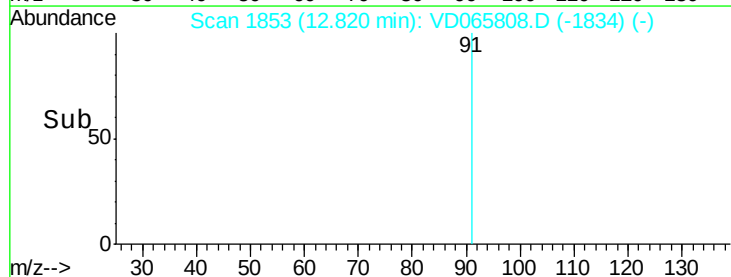


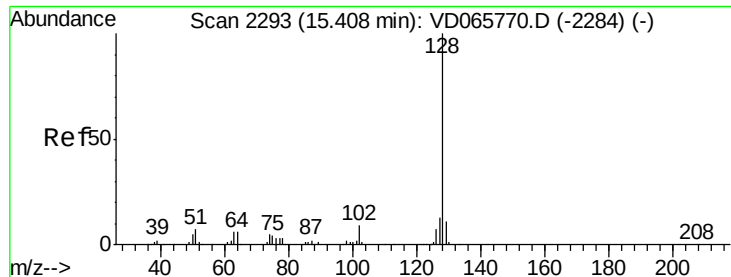
Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V



Time-->





#95

Naphthalene

Concen: 6.093 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VD065808.D

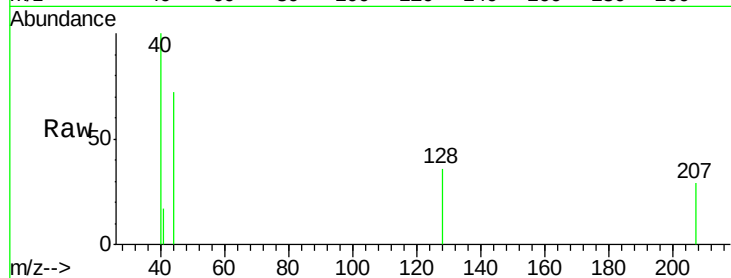
Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

TR-05-061720



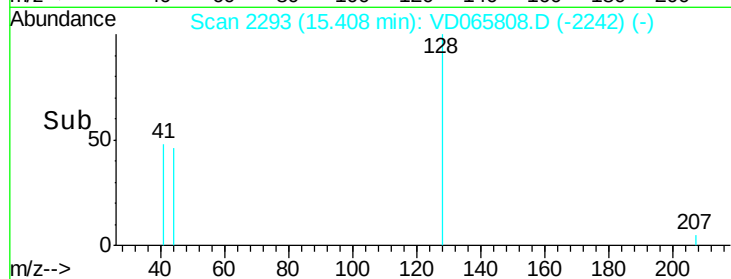
Tot Ion:128 Resp: 408

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

