

Data File : VD067766.D
Acq On : 24 Nov 2020 13:52
Operator : VA/SY
Sample : L4840-02
Misc : 4.26G/5.00ml/MSVOA_D/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
30740

Quant Time: Nov 25 02:04:30 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112320S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 24 00:51:35 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	238738	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	372324	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	422433	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	241445	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	113908	49.07	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	98.14%		
35) Dibromofluoromethane	7.92	113	117579	49.62	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.24%		
50) Toluene-d8	10.34	98	444044	51.26	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	102.52%		
62) 4-Bromofluorobenzene	12.64	95	200463	67.70	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	135.40%		

Target Compounds

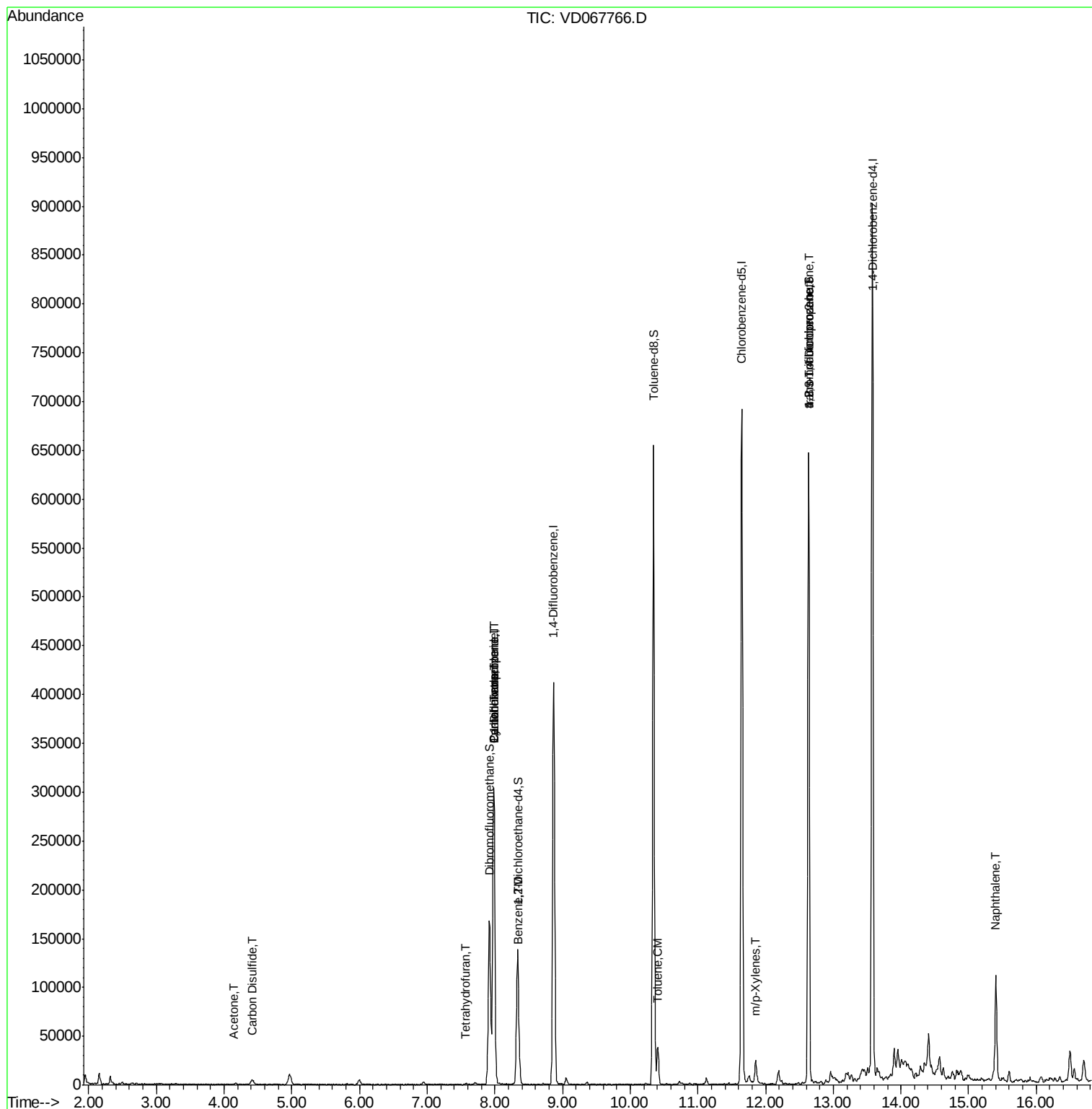
					Qvalue	
11) Tert butyl alcohol	5.20	59	160	Below Cal	#	87
16) Acetone	4.14	43	711	2.371	ug/l #	40
17) Carbon Disulfide	4.41	76	11053	1.950	ug/l	99
20) Methylene Chloride	4.97	84	9319	Below Cal	#	89
29) Tetrahydrofuran	7.57	42	425	2.221	ug/l #	33
31) Cyclohexane	7.99	56	5063	1.803	ug/l #	59
36) 1,1-Dichloropropene	7.99	75	16156	5.057	ug/l #	48
38) Carbon Tetrachloride	7.98	117	24787	5.352	ug/l #	16
40) Benzene	8.36	78	18946	2.159	ug/l	94
52) Toluene	10.40	92	16441	2.762	ug/l	95
68) m/p-Xylenes	11.86	106	7129	1.278	ug/l	99
76) 1,2,3-Trichloropropane	12.64	75	108735	64.617	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	108735	151.135	ug/l #	11
95) Naphthalene	15.40	128	100581	13.239	ug/l	98

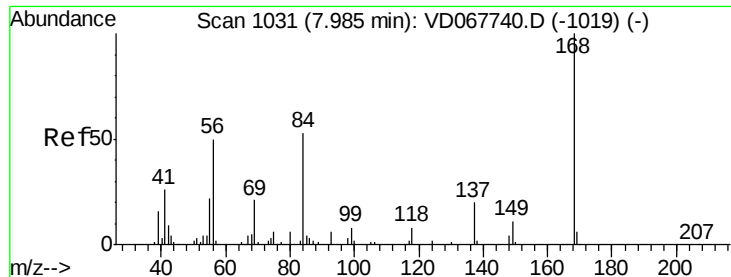
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD067766.D

Acq: 24 Nov 2020 13:52

Instrument :

MSVOA_D

ClientSampleId :

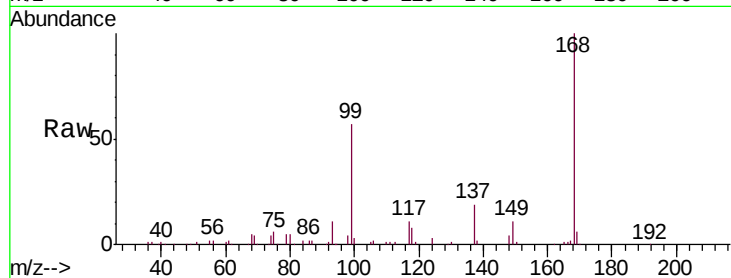
30740

Tgt Ion:168 Resp: 238738

Ion Ratio Lower Upper

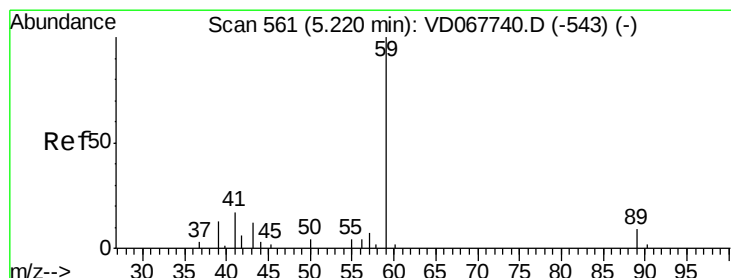
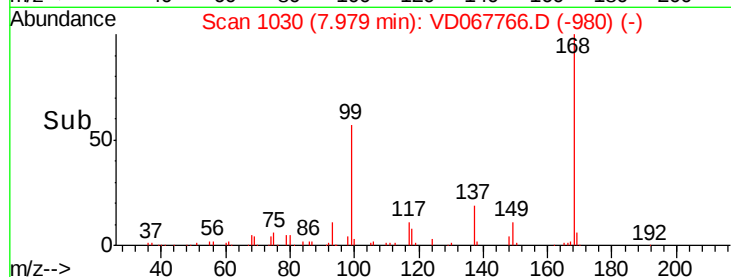
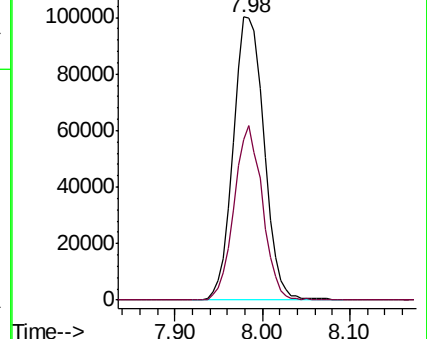
168 100

99 56.8 43.8 65.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.20 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD067766.D

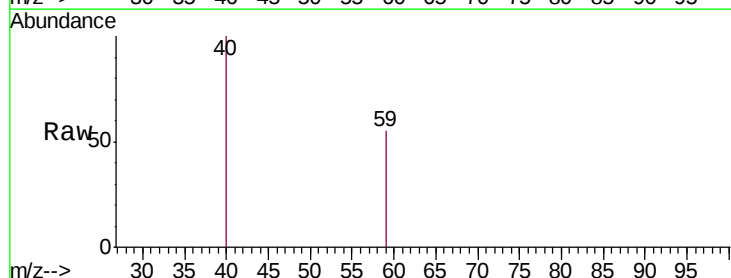
Acq: 24 Nov 2020 13:52

Tgt Ion: 59 Resp: 160

Ion Ratio Lower Upper

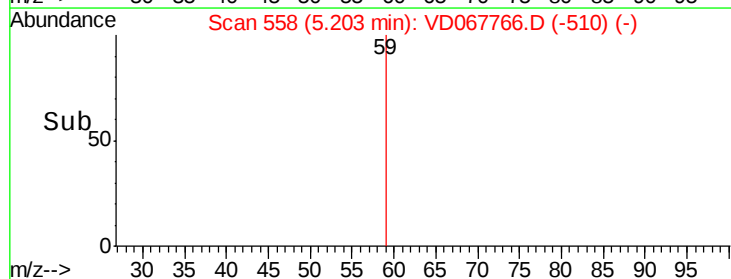
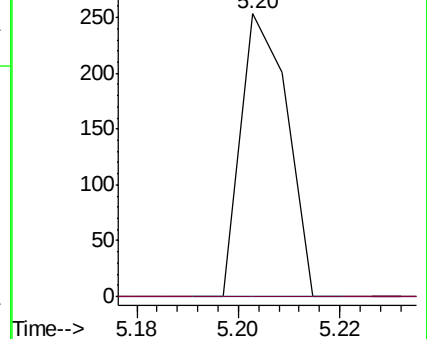
59 100

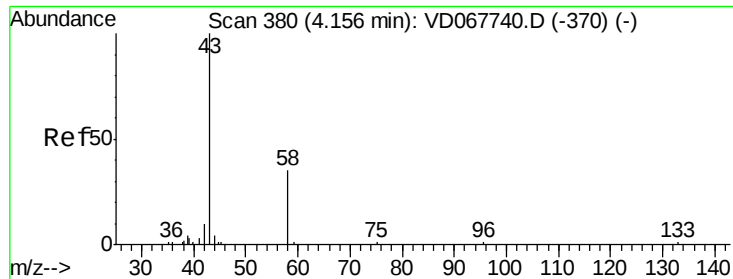
57 0.0 3.4 5.0#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 2.371 ug/l

RT: 4.14 min Scan# 378

Delta R.T. -0.01 min

Lab File: VD067766.D

Acq: 24 Nov 2020 13:52

Instrument :

MSVOA_D

ClientSampleId :

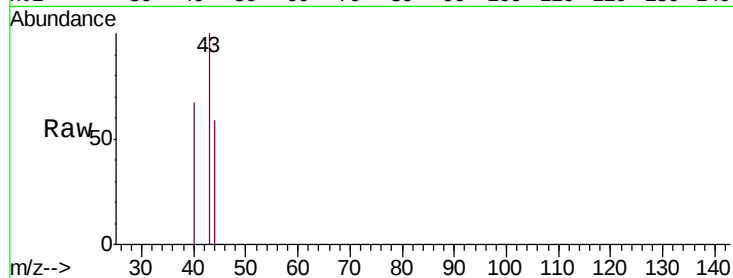
30740

Tgt Ion: 43 Resp: 711

Ion Ratio Lower Upper

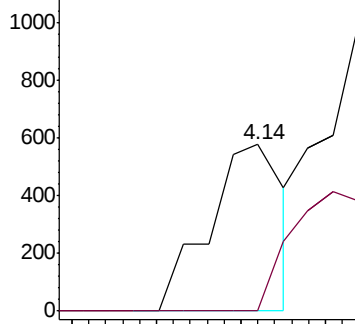
43 100

58 0.0 27.6 41.4#

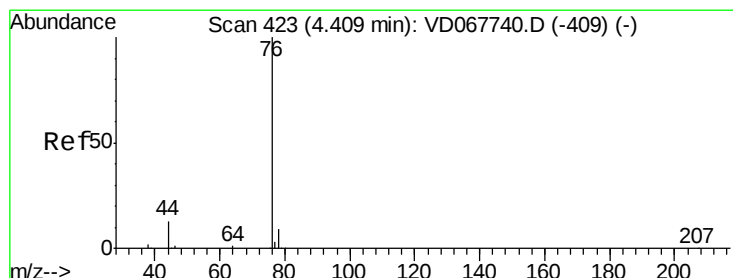
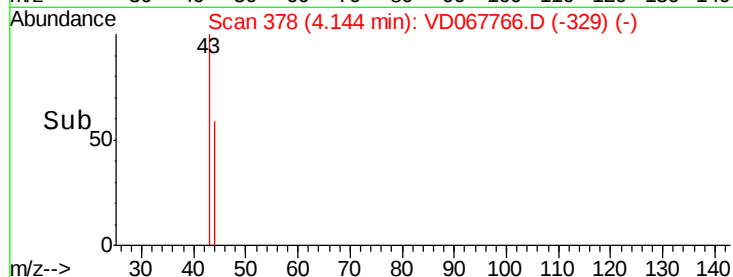


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



Time-->



#17

Carbon Disulfide

Concen: 1.950 ug/l

RT: 4.41 min Scan# 424

Delta R.T. 0.01 min

Lab File: VD067766.D

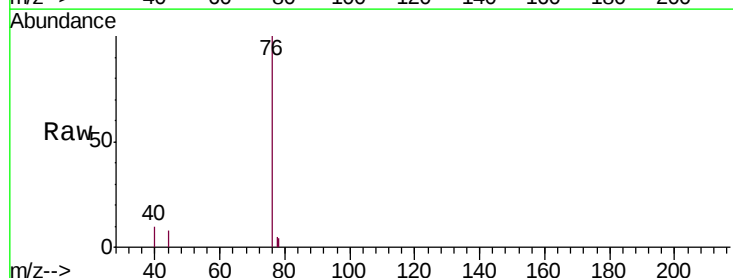
Acq: 24 Nov 2020 13:52

Tgt Ion: 76 Resp: 11053

Ion Ratio Lower Upper

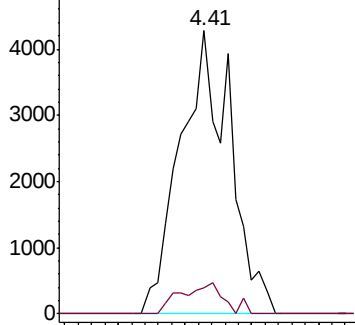
76 100

78 9.0 7.5 11.3

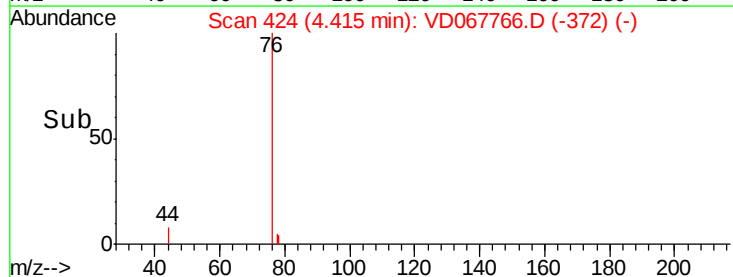


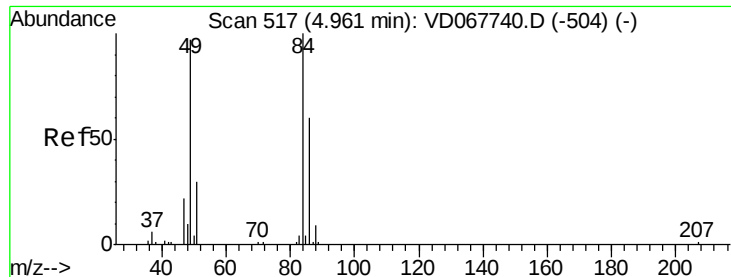
Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



Time-->

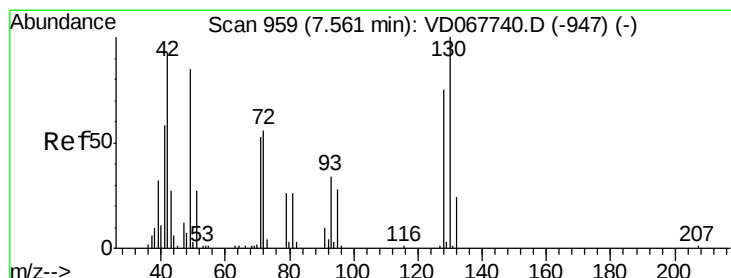
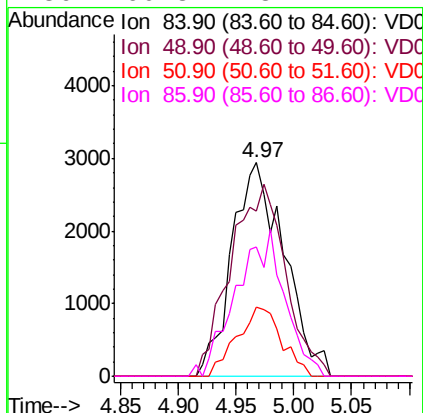
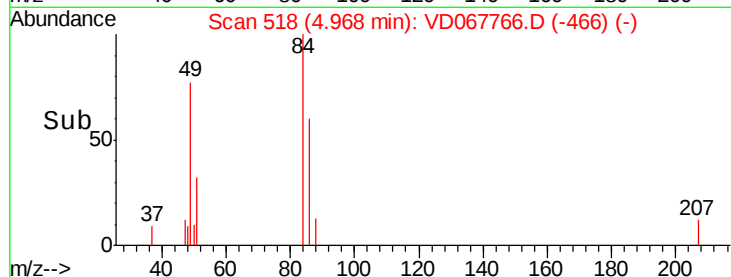
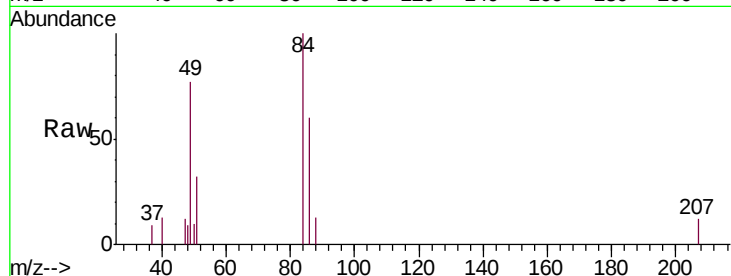




#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD067766.D
Acq: 24 Nov 2020 13:52

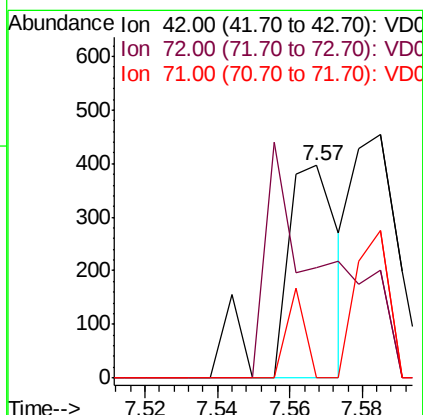
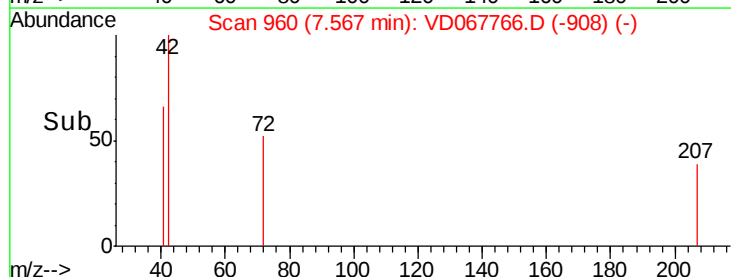
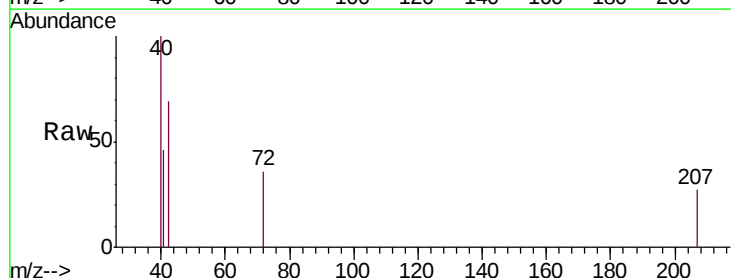
Instrument :
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30740

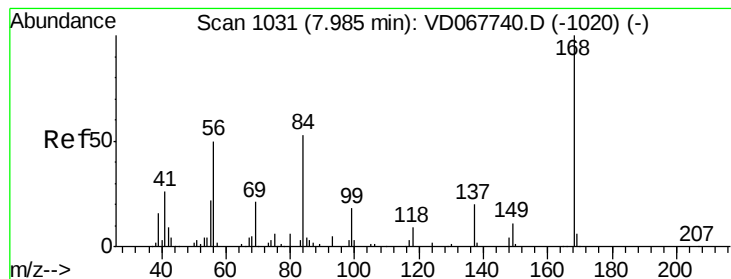
Tgt Ion: 84 Resp: 9319
Ion Ratio Lower Upper
84 100
49 77.3 77.4 116.2#
51 32.2 24.1 36.1
86 60.3 48.2 72.2



#29
Tetrahydrofuran
Concen: 2.221 ug/l
RT: 7.57 min Scan# 960
Delta R.T. 0.01 min
Lab File: VD067766.D
Acq: 24 Nov 2020 13:52

Tgt Ion: 42 Resp: 425
Ion Ratio Lower Upper
42 100
72 119.1 49.3 73.9#
71 13.9 45.9 68.9#





#31

Cyclohexane

Concen: 1.803 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067766.D

Acq: 24 Nov 2020 13:52

Instrument :

MSVOA_D

ClientSampleId :

30740

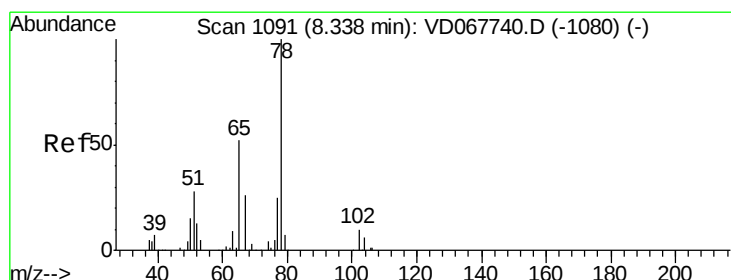
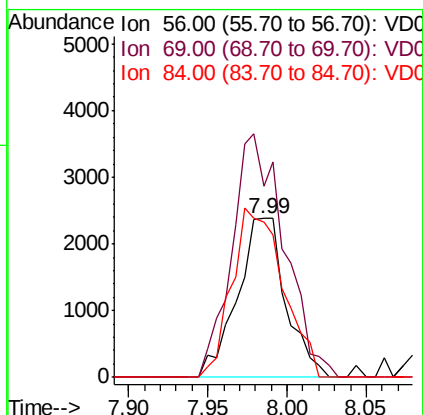
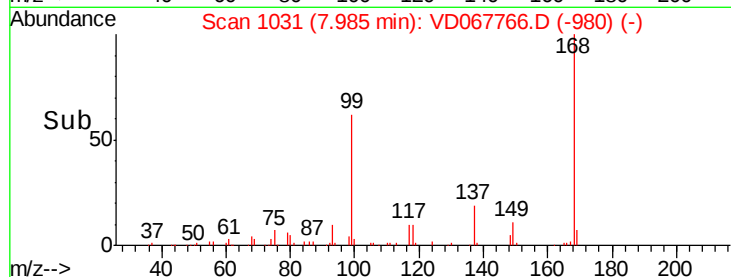
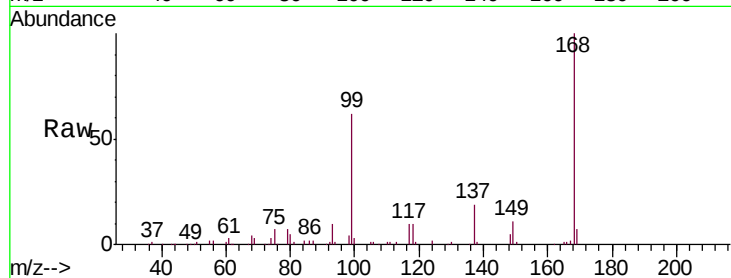
Tgt Ion: 56 Resp: 5063

Ion Ratio Lower Upper

56 100

69 120.3 33.2 49.8#

84 98.0 84.8 127.2



#33

1,2-Dichloroethane-d4

Concen: 49.071 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD067766.D

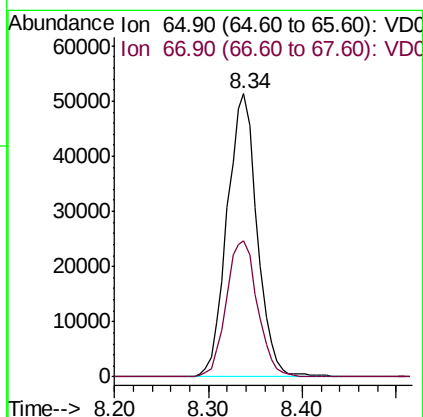
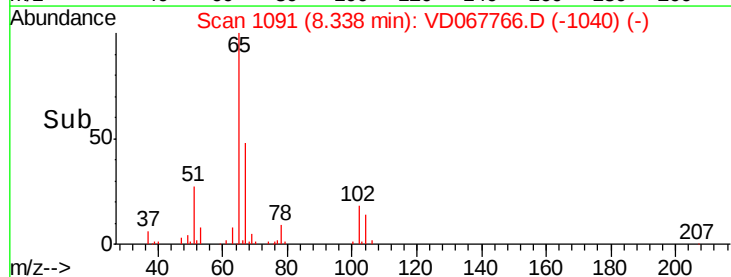
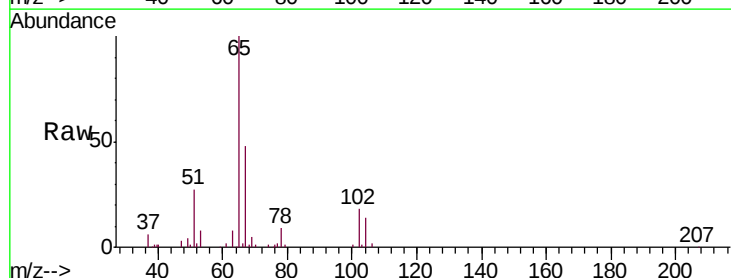
Acq: 24 Nov 2020 13:52

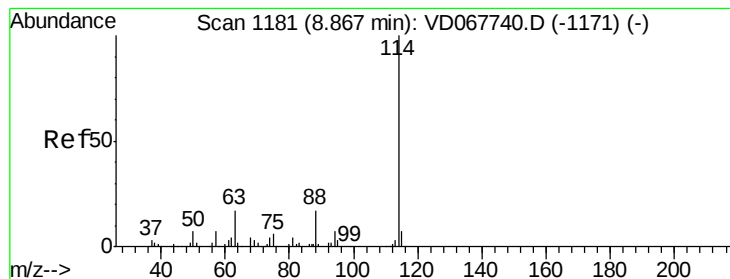
Tgt Ion: 65 Resp: 113908

Ion Ratio Lower Upper

65 100

67 50.0 0.0 101.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067766.D

Acq: 24 Nov 2020 13:52

Instrument :

MSVOA_D

ClientSampleId :

30740

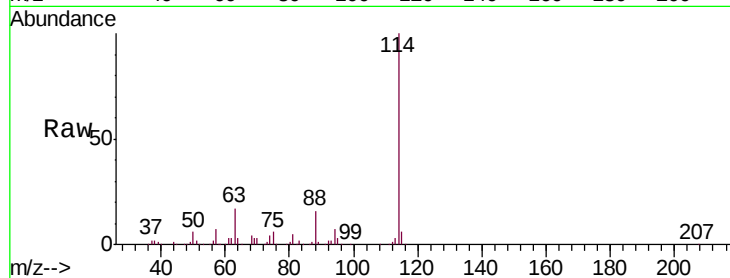
Tgt Ion:114 Resp: 372324

Ion Ratio Lower Upper

114 100

63 16.6 0.0 34.8

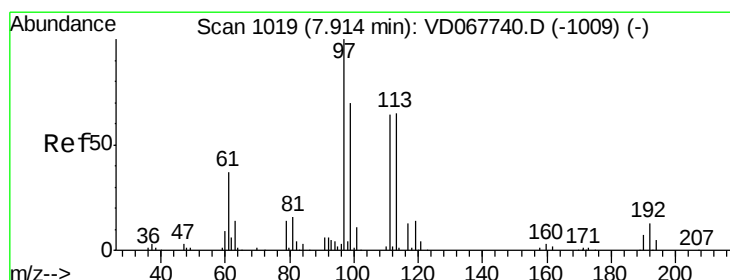
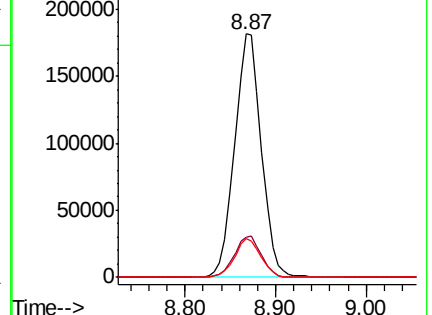
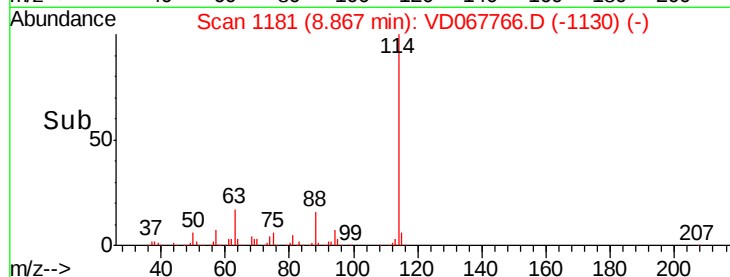
88 15.7 0.0 34.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 49.623 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067766.D

Acq: 24 Nov 2020 13:52

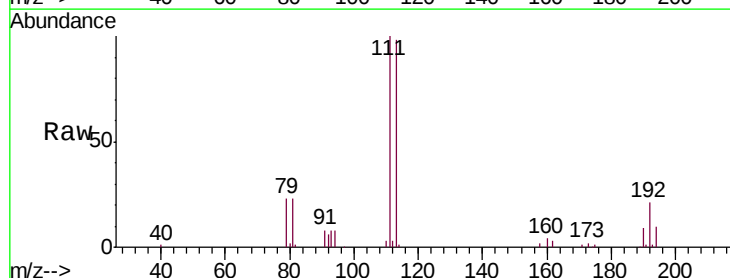
Tgt Ion:113 Resp: 117579

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

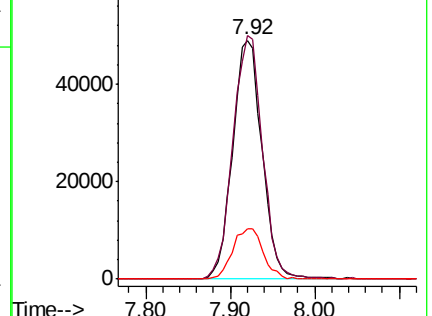
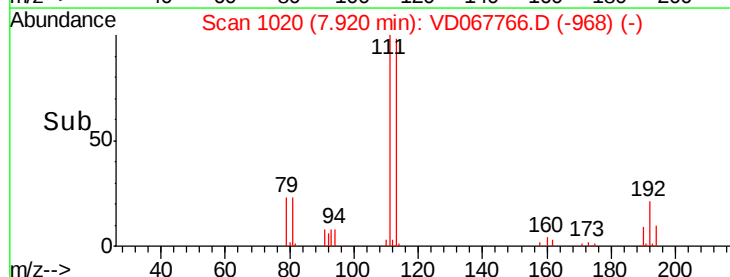
192 21.8 17.0 25.4

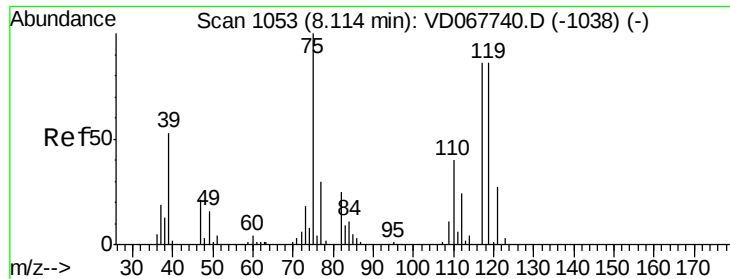


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

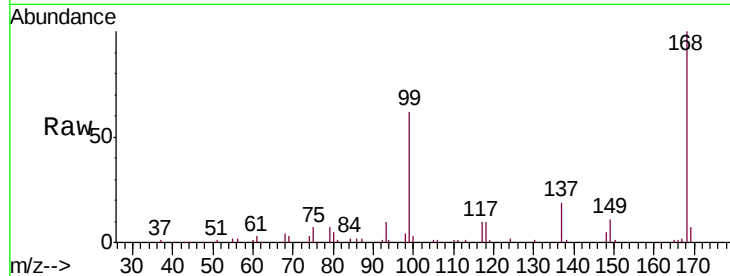




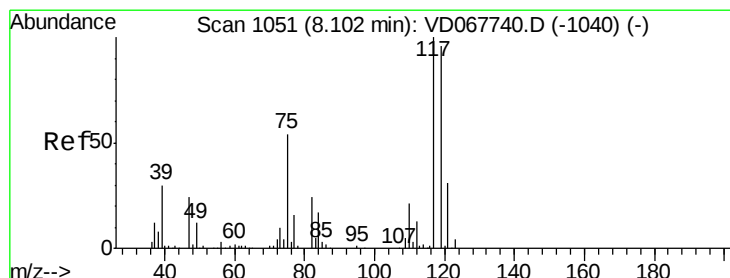
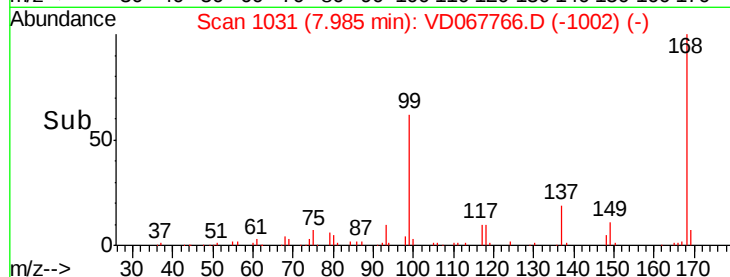
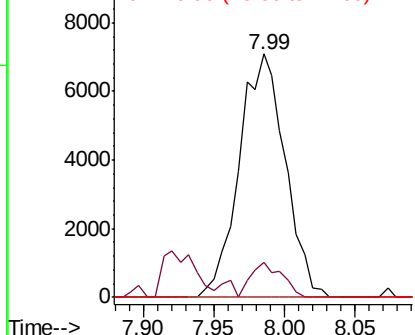
#36
 1,1-Dichloropropene
 Concen: 5.057 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD067766.D
 Acq: 24 Nov 2020 13:52

Instrument :
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Tgt Ion: 75 Resp: 16156
 Ion Ratio Lower Upper
 75 100
 110 9.7 20.1 60.2#
 77 0.0 24.8 37.2#

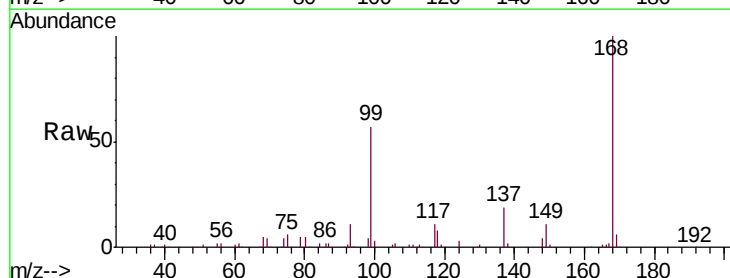


Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.90 (76.60 to 77.60): VDC

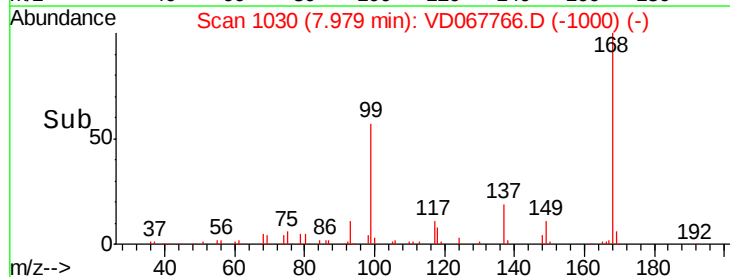
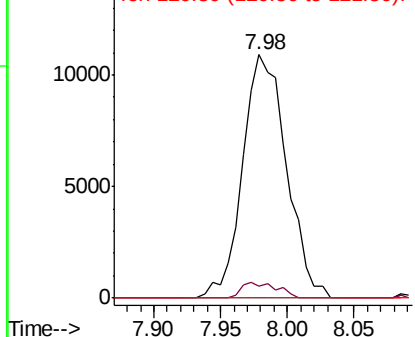


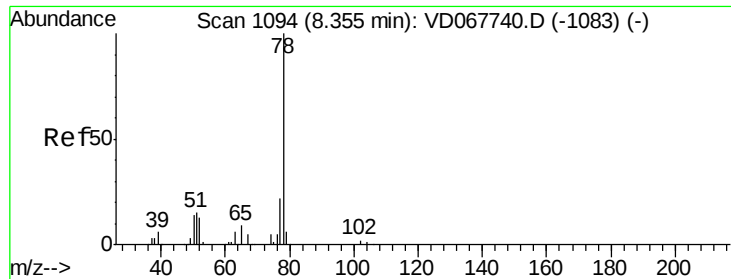
#38
 Carbon Tetrachloride
 Concen: 5.352 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.12 min
 Lab File: VD067766.D
 Acq: 24 Nov 2020 13:52

Tgt Ion: 117 Resp: 24787
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.6 115.0#
 121 0.0 24.5 36.7#



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





#40

Benzene

Concen: 2.159 ug/l

RT: 8.36 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VD067766.D

Acq: 24 Nov 2020 13:52

Instrument :

MSVOA_D

ClientSampleId :

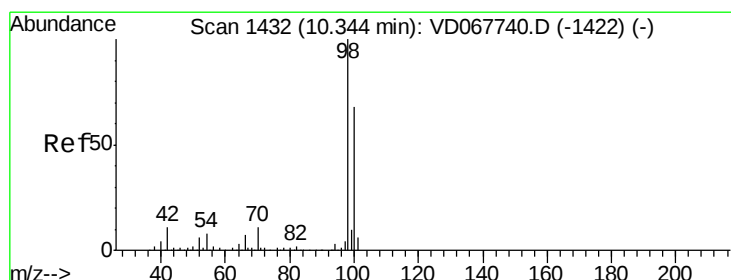
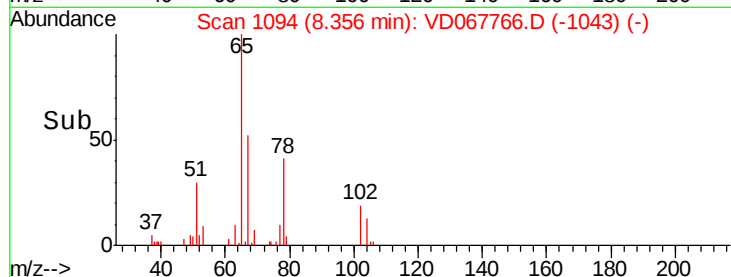
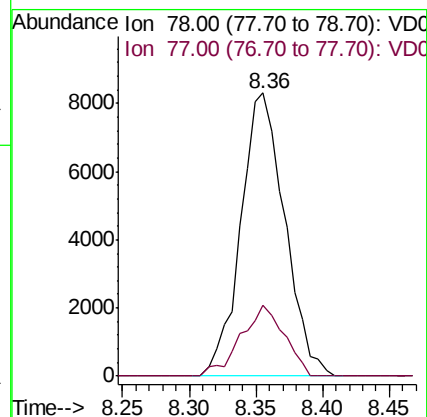
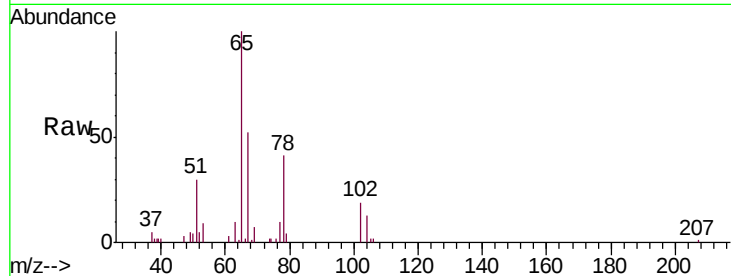
30740

Tgt Ion: 78 Resp: 18946

Ion Ratio Lower Upper

78 100

77 25.2 17.8 26.6



#50

Toluene-d8

Concen: 51.258 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067766.D

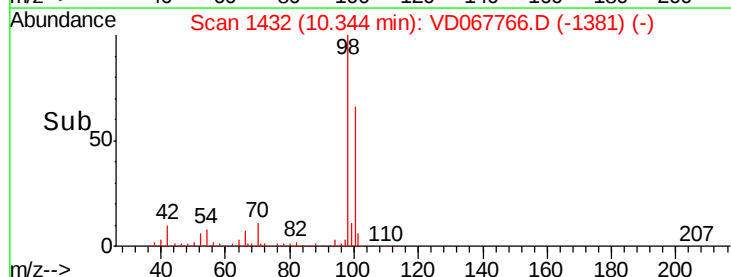
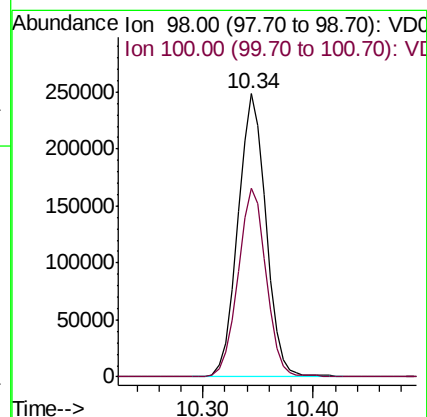
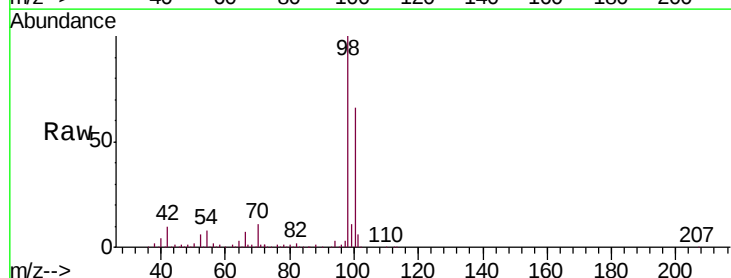
Acq: 24 Nov 2020 13:52

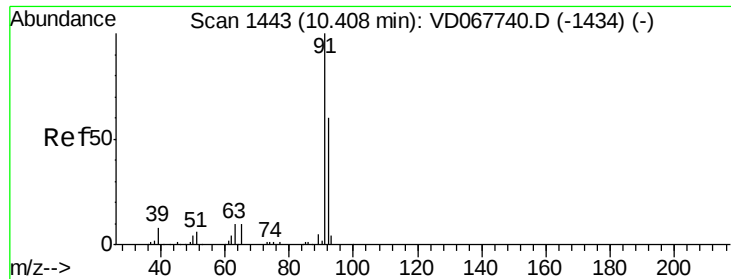
Tgt Ion: 98 Resp: 444044

Ion Ratio Lower Upper

98 100

100 66.9 53.1 79.7





#52

Toluene

Concen: 2.762 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.01 min

Lab File: VD067766.D

Acq: 24 Nov 2020 13:52

Instrument :

MSVOA_D

ClientSampleId :

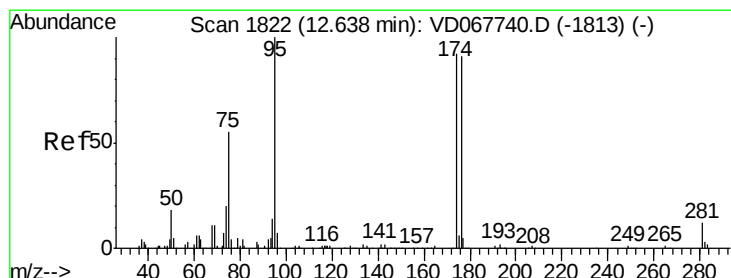
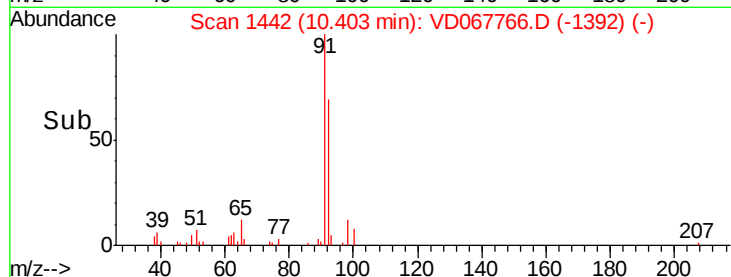
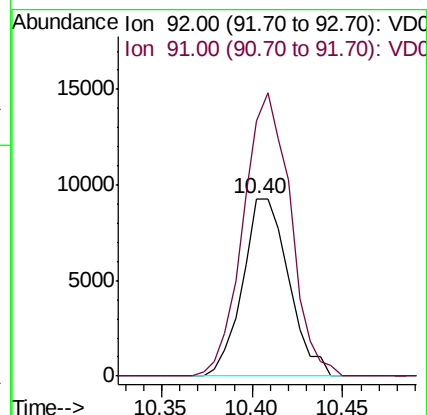
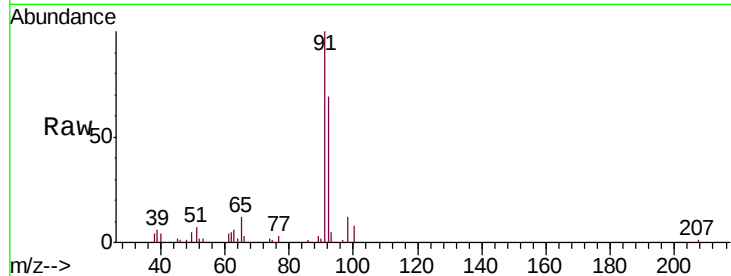
30740

Tgt Ion: 92 Resp: 16441

Ion Ratio Lower Upper

92 100

91 162.7 135.4 203.0



#62

4-Bromofluorobenzene

Concen: 67.700 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067766.D

Acq: 24 Nov 2020 13:52

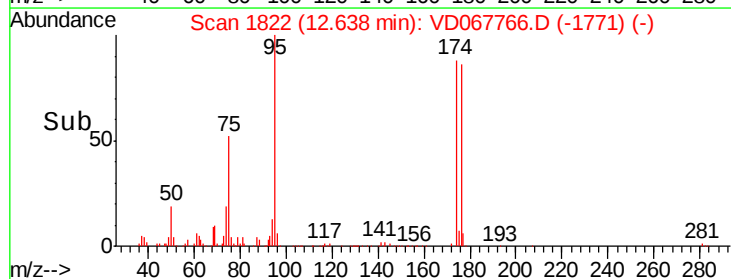
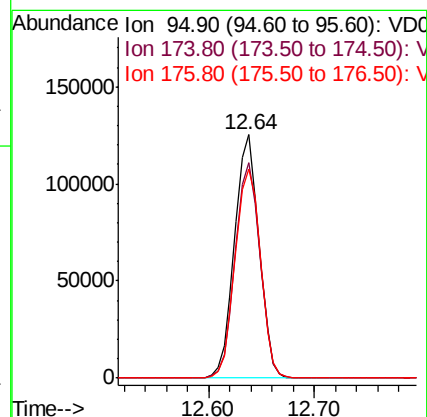
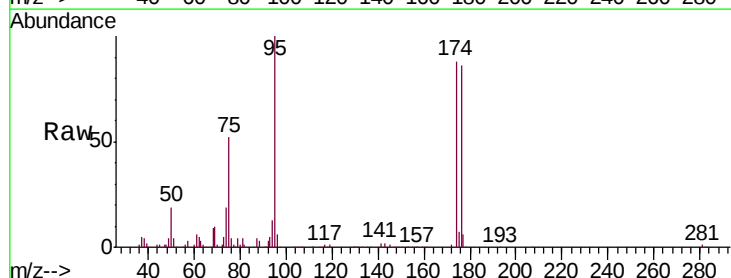
Tgt Ion: 95 Resp: 200463

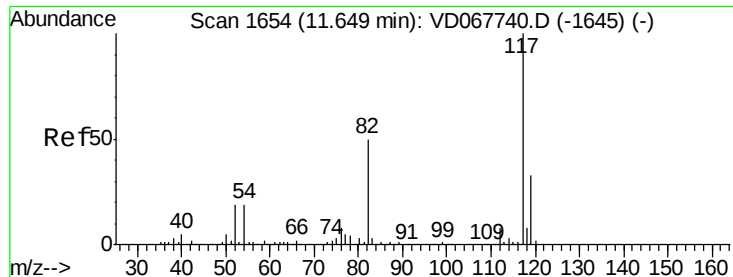
Ion Ratio Lower Upper

95 100

174 89.6 0.0 182.4

176 89.1 0.0 178.2

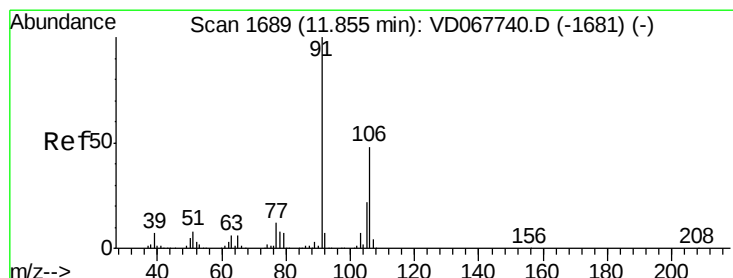
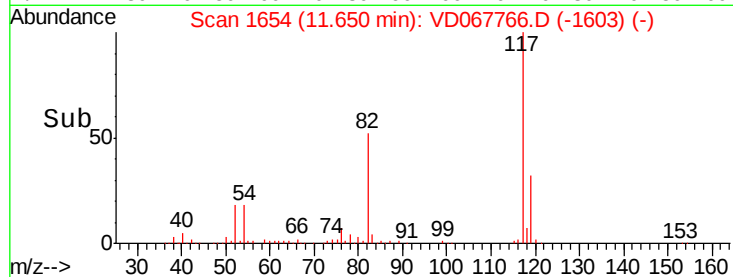
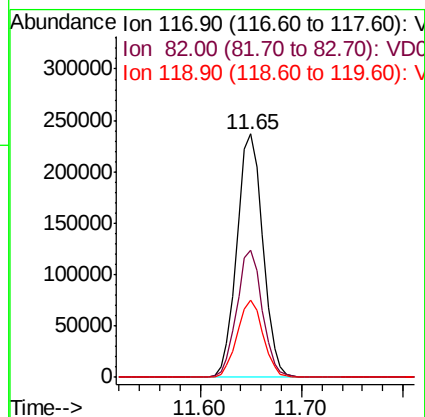
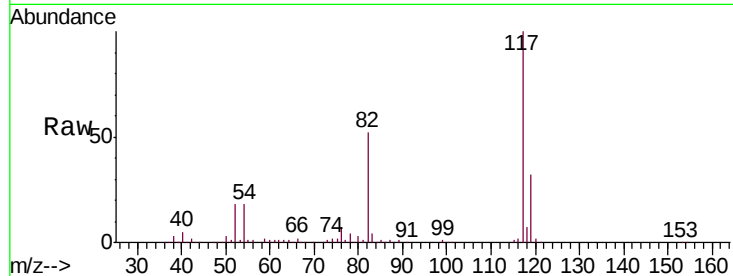




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067766.D
Acq: 24 Nov 2020 13:52

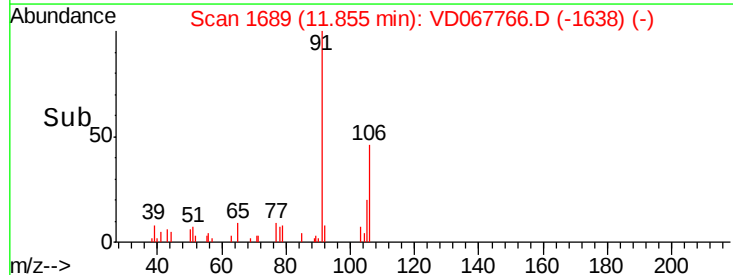
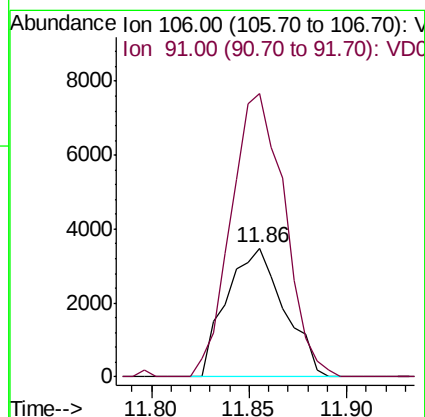
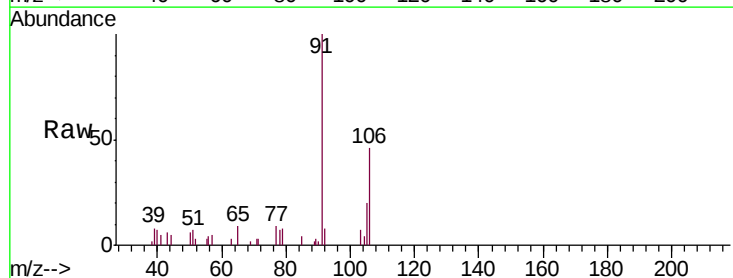
Instrument :
MSVOA_D
ClientSampleId :
30740

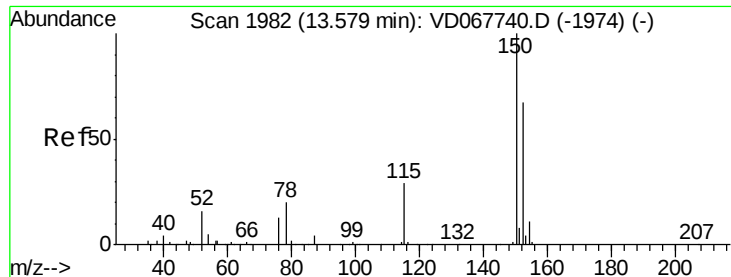
Tgt Ion:117 Resp: 422433
Ion Ratio Lower Upper
117 100
82 52.1 40.2 60.4
119 31.9 26.5 39.7



#68
m/p-Xylenes
Concen: 1.278 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD067766.D
Acq: 24 Nov 2020 13:52

Tgt Ion:106 Resp: 7129
Ion Ratio Lower Upper
106 100
91 204.7 163.0 244.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD067766.D

Acq: 24 Nov 2020 13:52

Instrument :

MSVOA_D

ClientSampleId :

30740

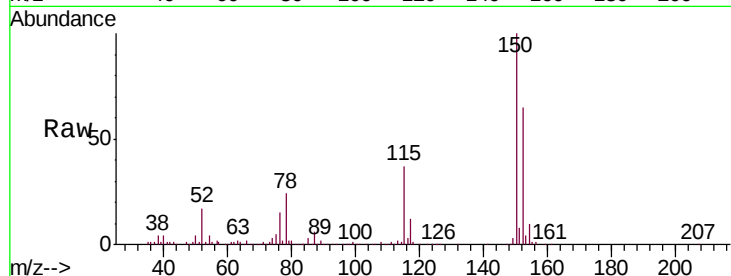
Tgt Ion:152 Resp: 241445

Ion Ratio Lower Upper

152 100

115 59.3 29.4 88.3

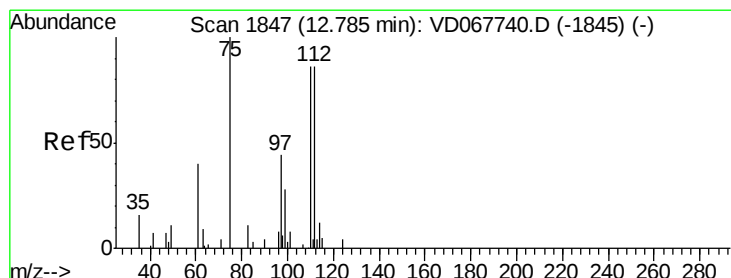
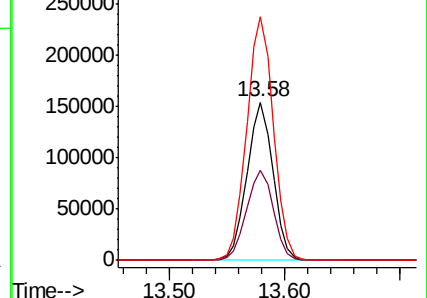
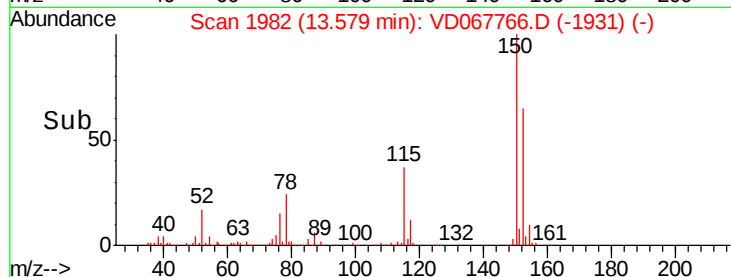
150 157.5 0.0 340.6



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: 64.617 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067766.D

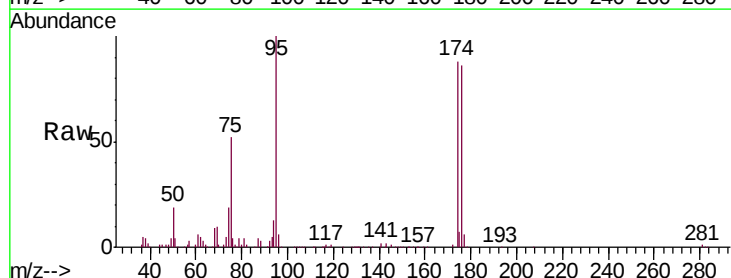
Acq: 24 Nov 2020 13:52

Tgt Ion: 75 Resp: 108735

Ion Ratio Lower Upper

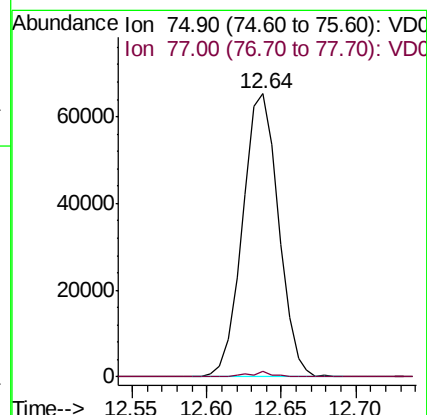
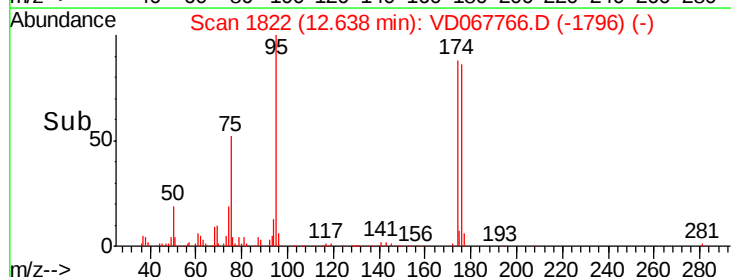
75 100

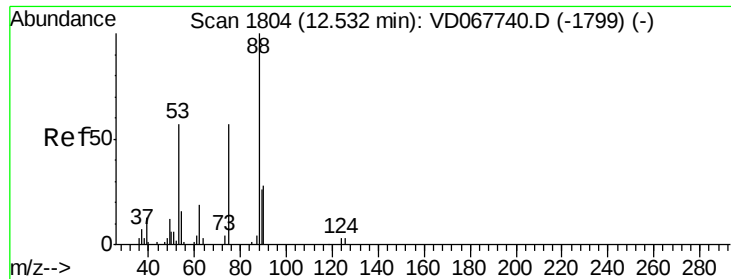
77 1.3 0.0 0.0#



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: 151.135 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067766.D

Acq: 24 Nov 2020 13:52

Instrument :

MSVOA_D

ClientSampleId :

30740

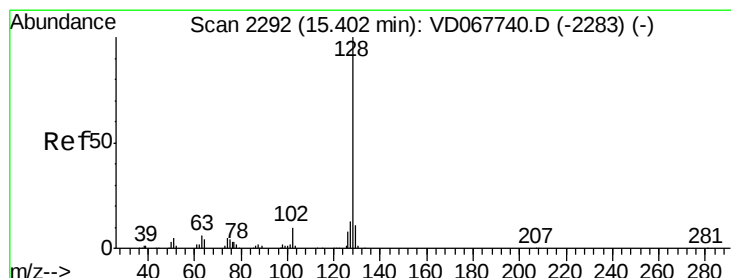
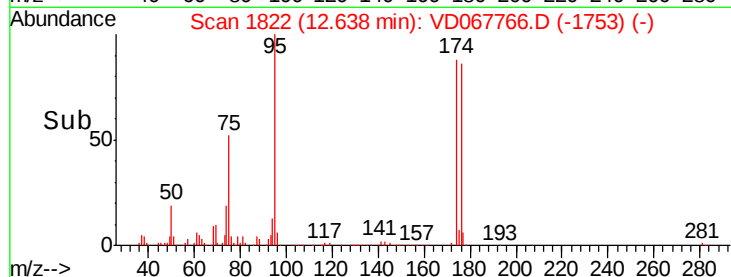
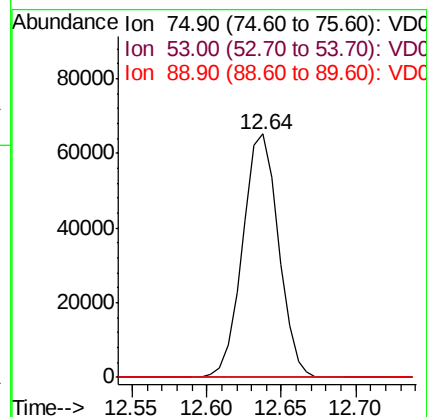
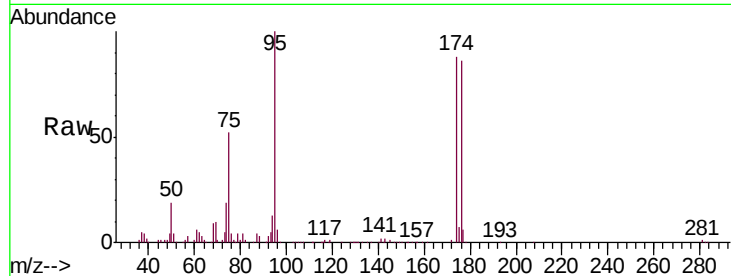
Tgt Ion: 75 Resp: 108735

Ion Ratio Lower Upper

75 100

53 0.1 76.0 114.0#

89 0.0 40.2 60.4#



#95

Naphthalene

Concen: 13.239 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VD067766.D

Acq: 24 Nov 2020 13:52

Tgt Ion: 128 Resp: 100581

Ion Ratio Lower Upper

128 100

127 13.4 10.7 16.1

129 12.1 8.6 12.8

