

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100620\
 Data File : VD067135.D
 Acq On : 07 Oct 2020 05:04
 Operator : VA/SY
 Sample : L4273-08
 Misc : 4.65G/5.00ml/MSVOA D/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4A

Quant Time: Oct 07 05:31:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	409367	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	666269	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	620271	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	288082	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	195816	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
35) Dibromofluoromethane	7.91	113	216334	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
50) Toluene-d8	10.34	98	772973	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
62) 4-Bromofluorobenzene	12.64	95	258586	47.92	ug/l	0.00
Spiked Amount			Recovery	=	95.84%	

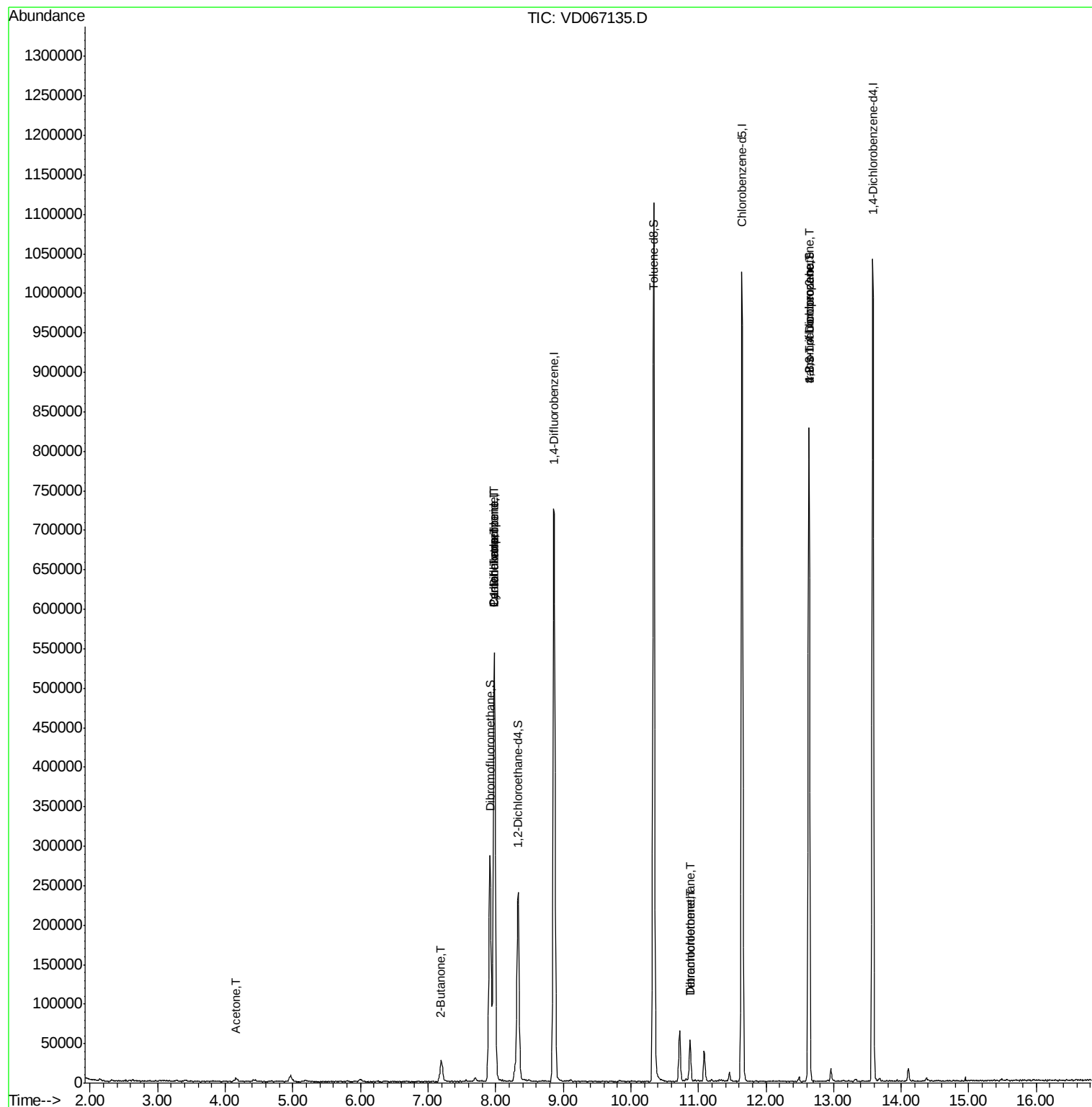
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	272	Below Cal	#	40
5) Bromomethane	2.77	94	95	Below Cal		92
11) Tert butyl alcohol	5.19	59	1253	Below Cal	#	72
16) Acetone	4.16	43	8212	13.643	ug/l #	83
20) Methylene Chloride	4.97	84	5877	Below Cal		96
25) 2-Butanone	7.18	43	1302	1.526	ug/l #	46
26) 2,2-Dichloropropane	7.20	77	2267	Below Cal	#	62
31) Cyclohexane	7.98	56	7681	1.297	ug/l #	2
36) 1,1-Dichloropropene	7.98	75	30051	4.839	ug/l #	41
38) Carbon Tetrachloride	7.98	117	43826	6.522	ug/l #	15
60) Dibromochloromethane	10.87	129	10472	2.426	ug/l #	12
64) Tetrachloroethene	10.88	164	11055	2.452	ug/l #	81
76) 1,2,3-Trichloropropane	12.64	75	128533	51.223	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	128533	127.705	ug/l #	12

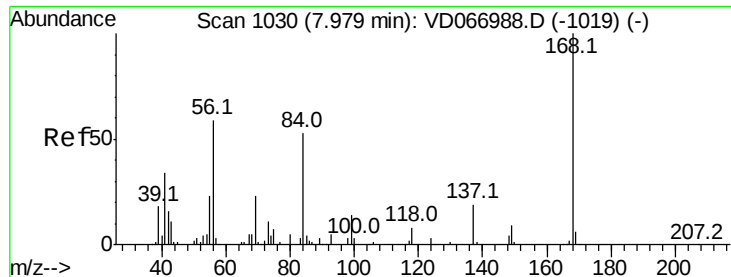
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067135.D

Acq: 07 Oct 2020 05:04

Instrument :

MSVOA_D

ClientSampleId :

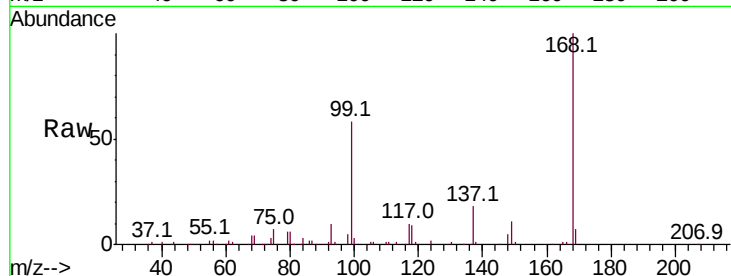
SB-4A

Tot Ion:168 Resp: 409367

Ion Ratio Lower Upper

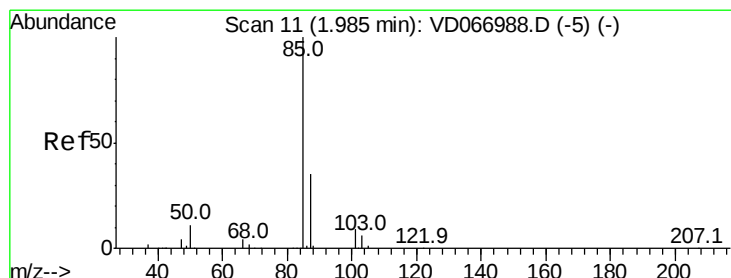
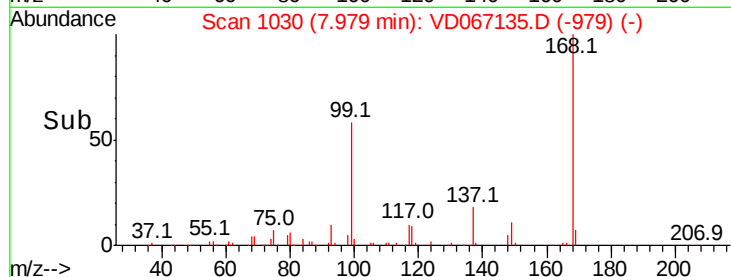
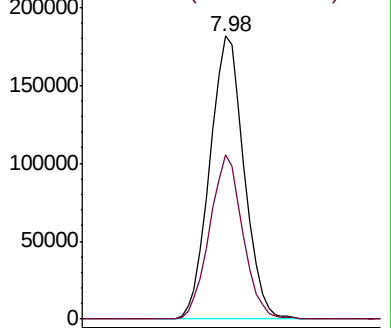
168 100

99 58.1 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067135.D

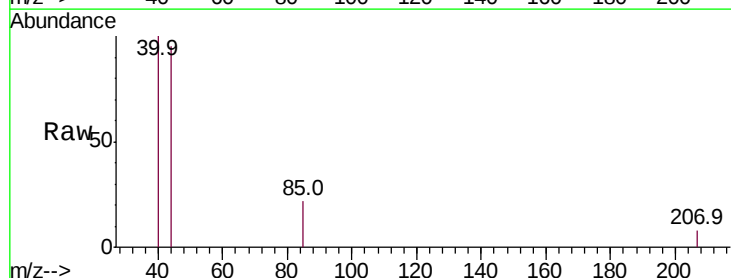
Acq: 07 Oct 2020 05:04

Tgt Ion: 85 Resp: 272

Ion Ratio Lower Upper

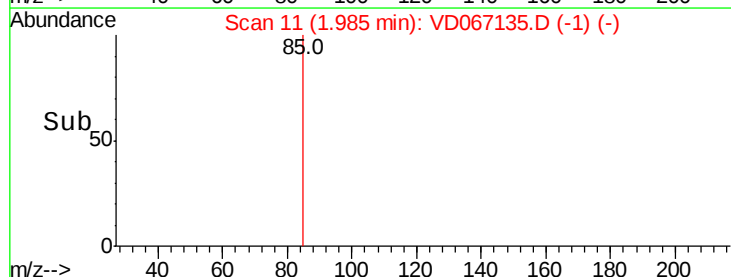
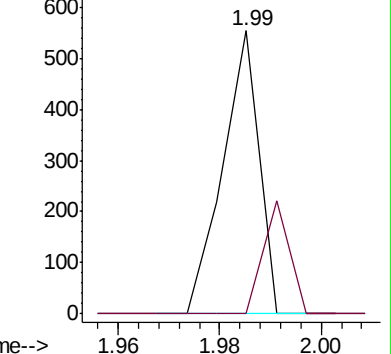
85 100

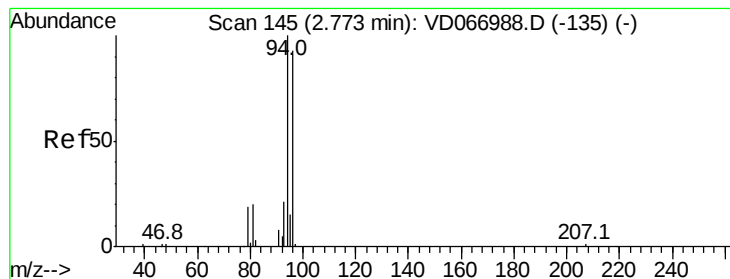
87 0.0 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD067135.D

Acq: 07 Oct 2020 05:04

Instrument :

MSVOA_D

ClientSampleId :

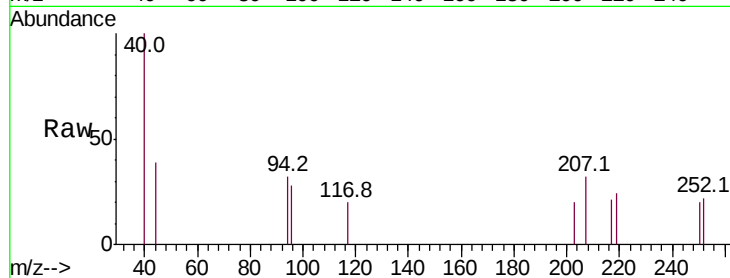
SB-4A

Tot Ion: 94 Resp: 95

Ion Ratio Lower Upper

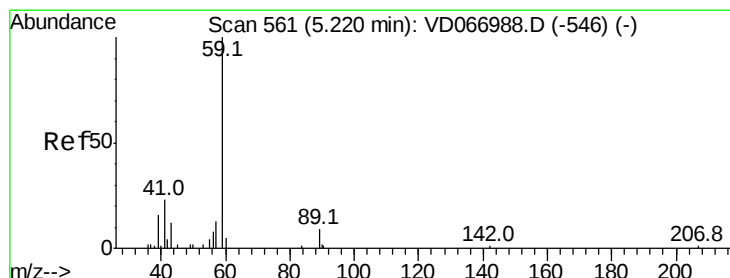
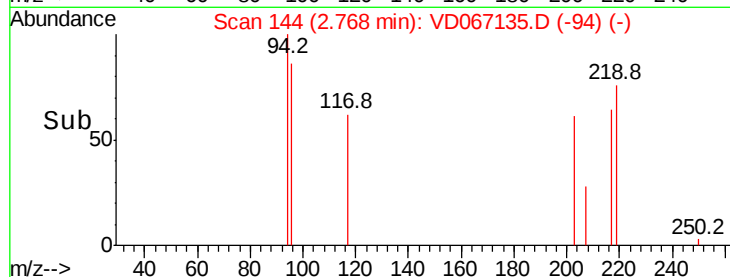
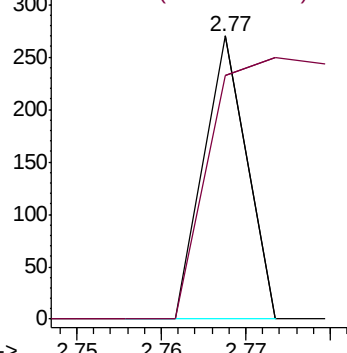
94 100

96 85.9 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.19 min Scan# 556

Delta R.T. -0.03 min

Lab File: VD067135.D

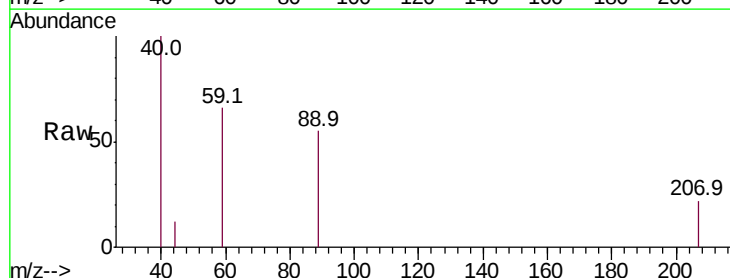
Acq: 07 Oct 2020 05:04

Tgt Ion: 59 Resp: 1253

Ion Ratio Lower Upper

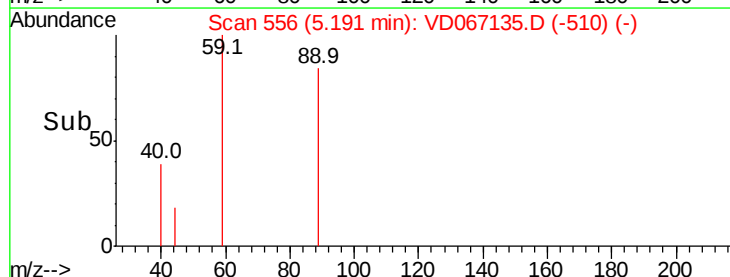
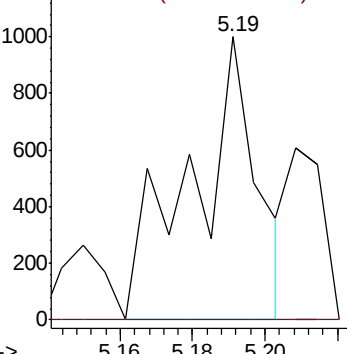
59 100

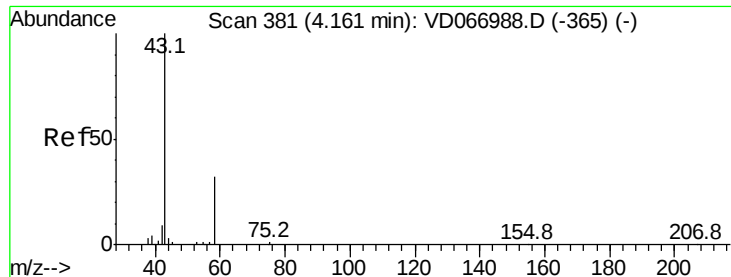
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 13.643 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD067135.D

Acq: 07 Oct 2020 05:04

Instrument :

MSVOA_D

ClientSampleId :

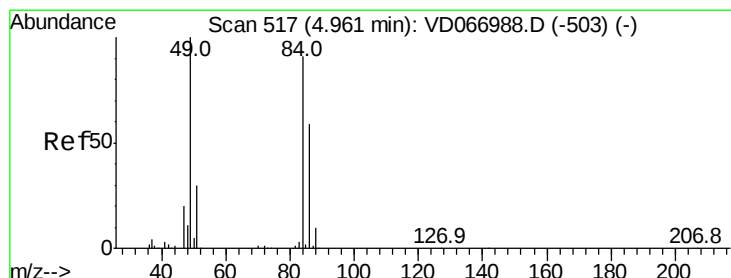
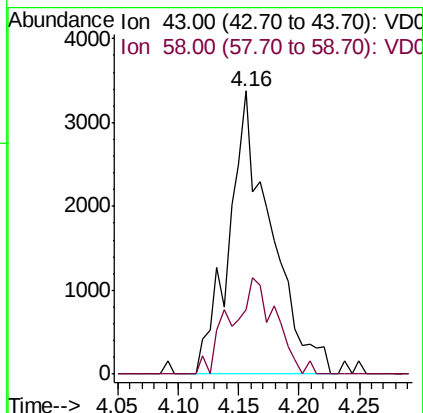
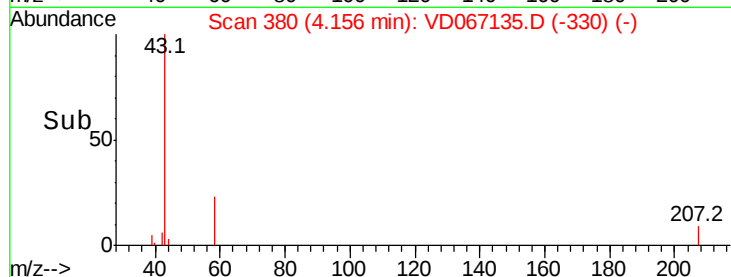
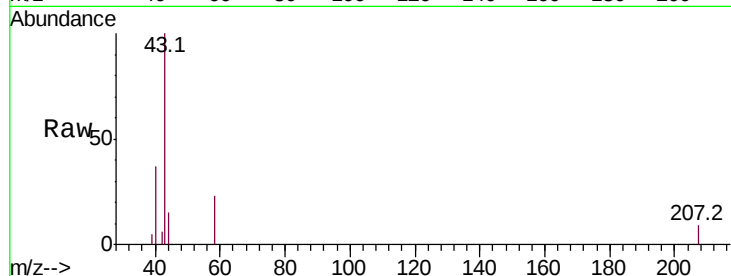
SB-4A

Tot Ion: 43 Resp: 8212

Ion Ratio Lower Upper

43 100

58 22.7 25.9 38.9#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067135.D

Acq: 07 Oct 2020 05:04

Tgt Ion: 84 Resp: 5877

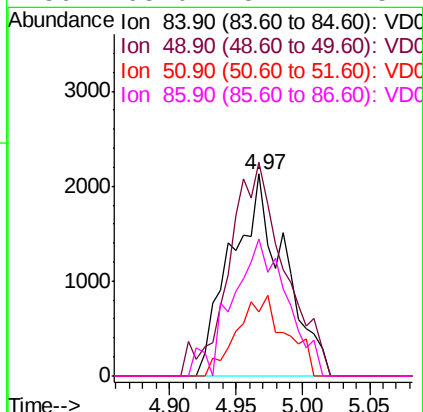
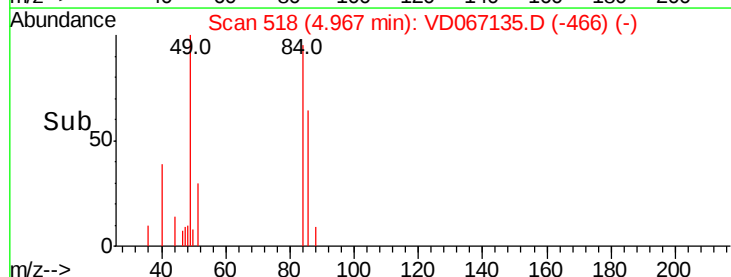
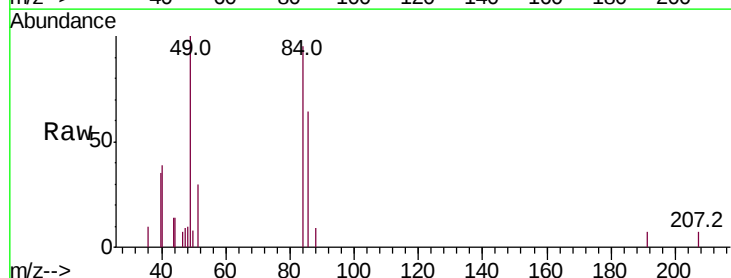
Ion Ratio Lower Upper

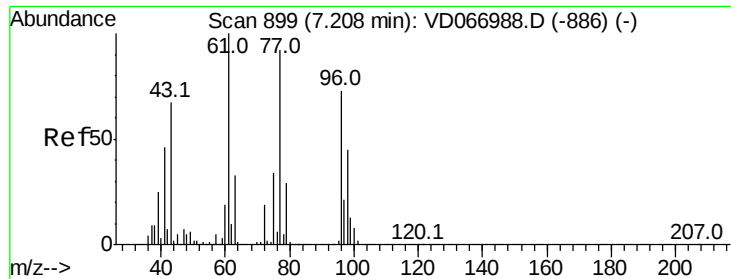
84 100

49 105.8 88.2 132.2

51 31.6 26.6 39.8

86 68.0 52.1 78.1





#25

2-Butanone

Concen: 1.526 ug/l

RT: 7.18 min Scan# 895

Delta R.T. -0.02 min

Lab File: VD067135.D

Acq: 07 Oct 2020 05:04

Instrument :

MSVOA_D

ClientSampled :

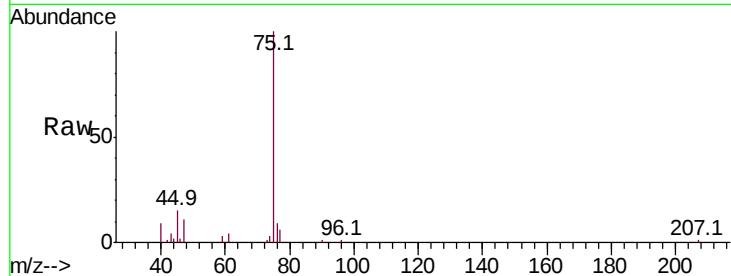
SB-4A

Tot Ion: 43 Resp: 1302

Ion Ratio Lower Upper

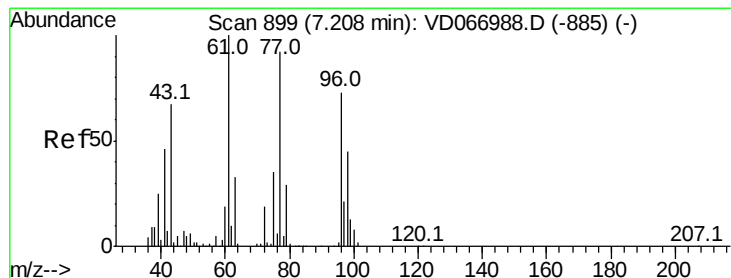
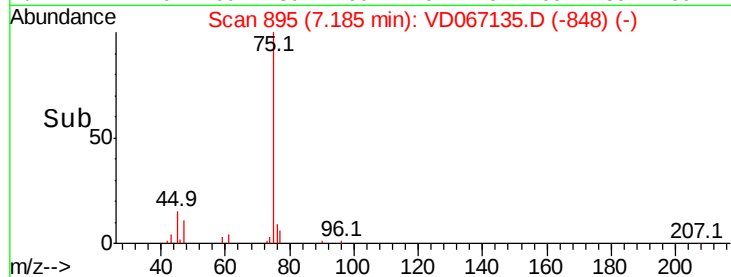
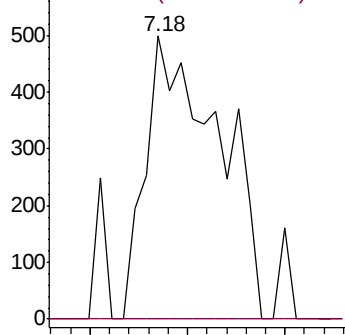
43 100

72 0.0 22.8 34.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD067135.D

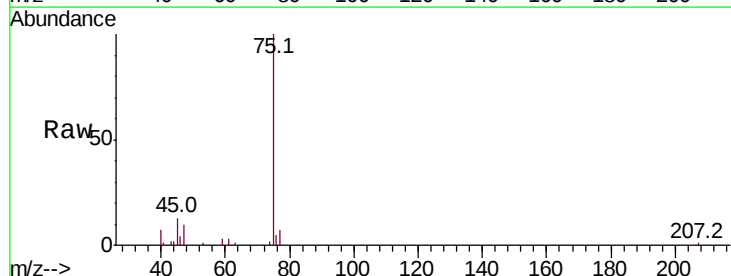
Acq: 07 Oct 2020 05:04

Tgt Ion: 77 Resp: 2267

Ion Ratio Lower Upper

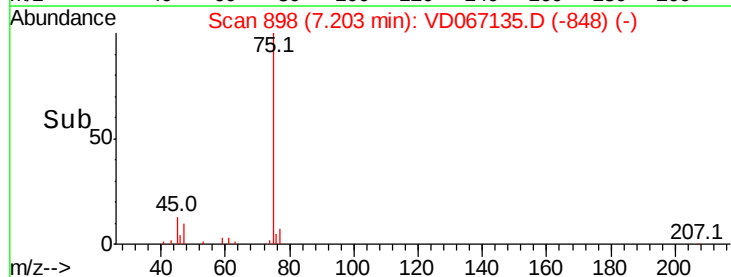
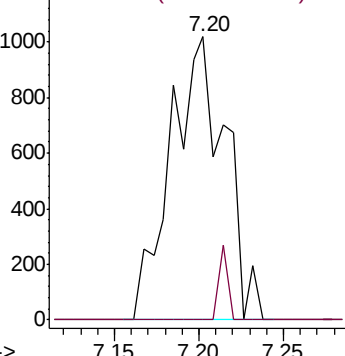
77 100

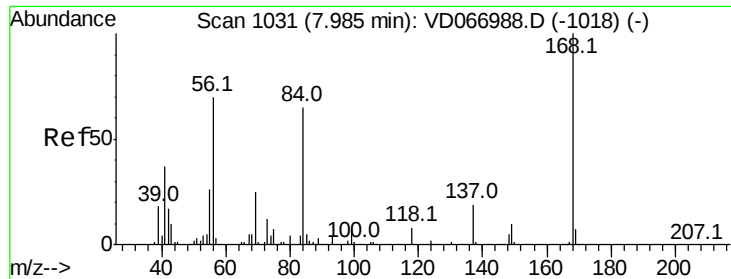
97 4.2 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

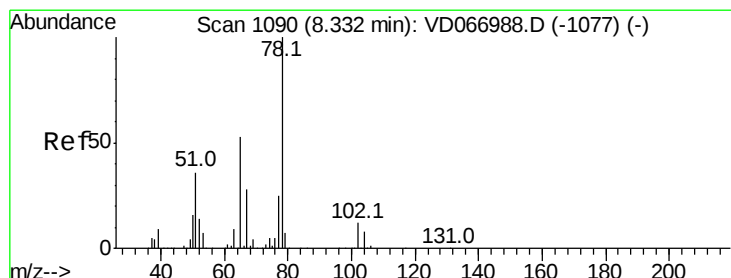
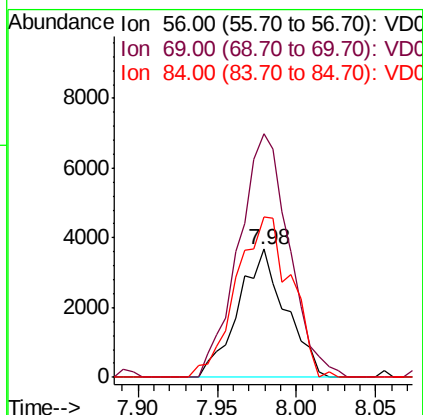
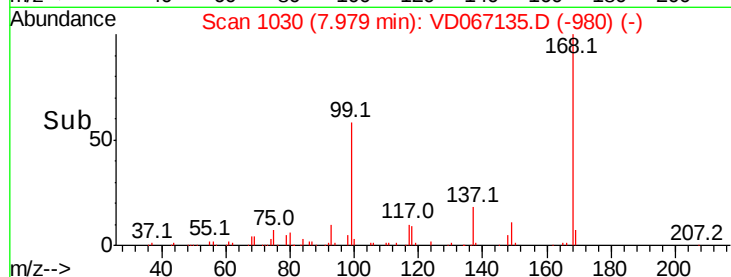
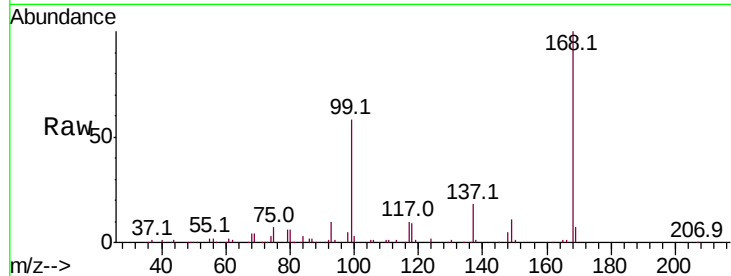




#31
Cyclohexane
Concen: 1.297 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD067135.D
Acq: 07 Oct 2020 05:04

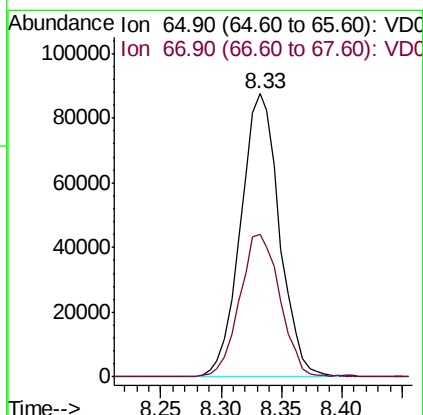
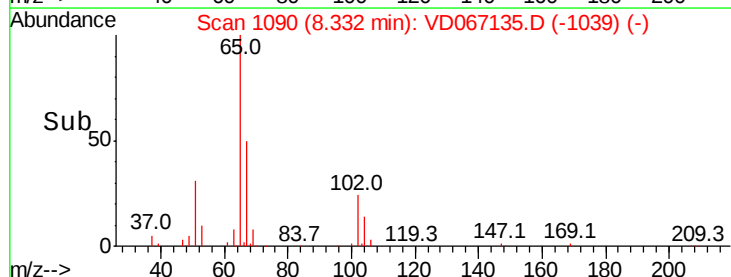
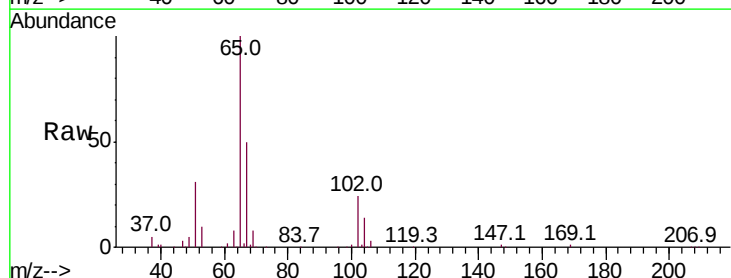
Instrument :
MSVOA_D
ClientSampleId :
SB-4A

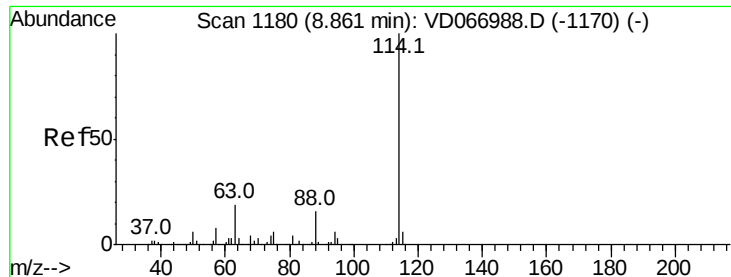
Tot Ion: 56 Resp: 7681
Ion Ratio Lower Upper
56 100
69 190.5 29.0 43.6#
84 125.3 74.2 111.2#



#33
1,2-Dichloroethane-d4
Concen: 49.662 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD067135.D
Acq: 07 Oct 2020 05:04

Tgt Ion: 65 Resp: 195816
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.8

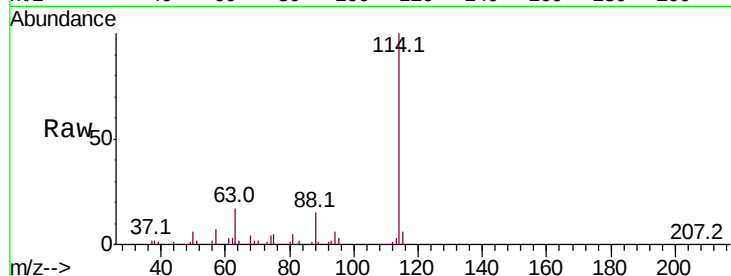




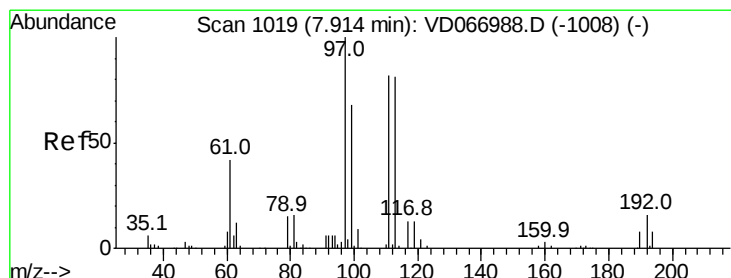
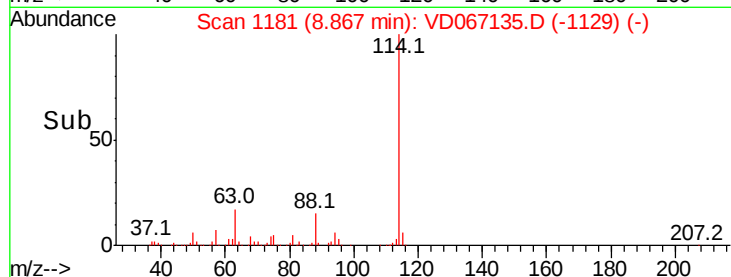
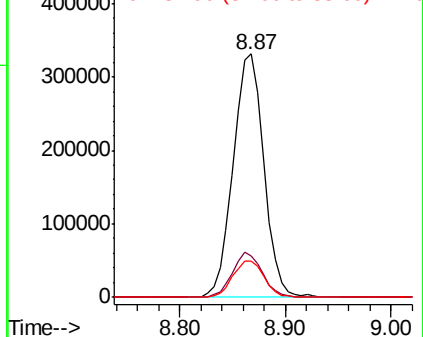
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VD067135.D
Acq: 07 Oct 2020 05:04

Instrument :
MSVOA_D
ClientSampleId :
SB-4A

Tot Ion:114 Resp: 666269
Ion Ratio Lower Upper
114 100
63 16.8 0.0 38.4
88 14.8 0.0 31.2

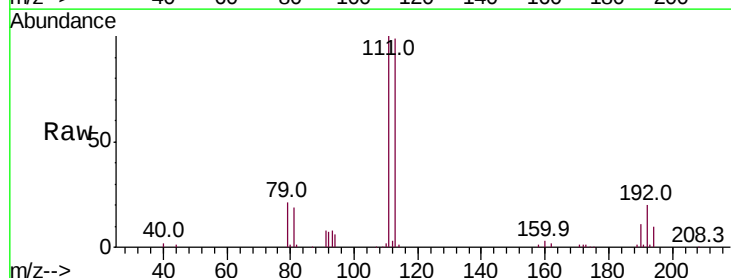


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

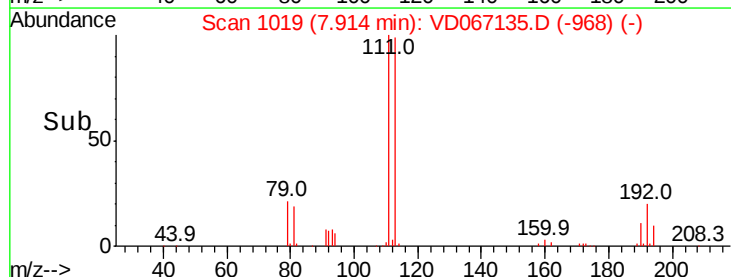
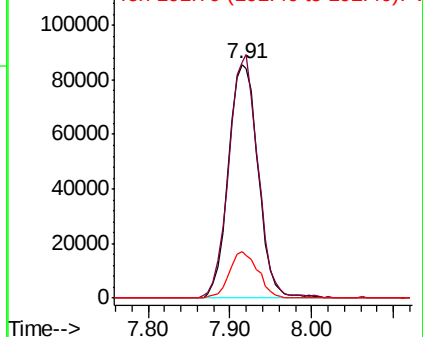


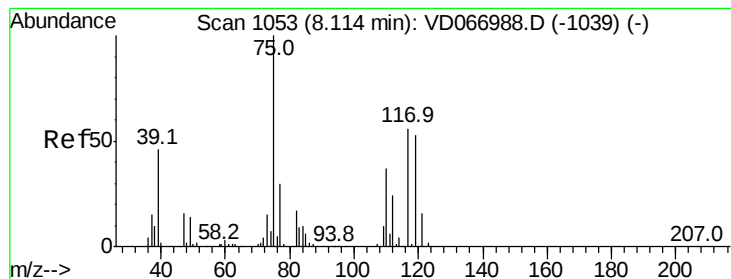
#35
Dibromofluoromethane
Concen: 49.596 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VD067135.D
Acq: 07 Oct 2020 05:04

Tgt Ion:113 Resp: 216334
Ion Ratio Lower Upper
113 100
111 101.7 83.0 124.4
192 19.3 15.5 23.3



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: 4.839 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067135.D

Acq: 07 Oct 2020 05:04

Instrument :

MSVOA_D

ClientSampled :

SB-4A

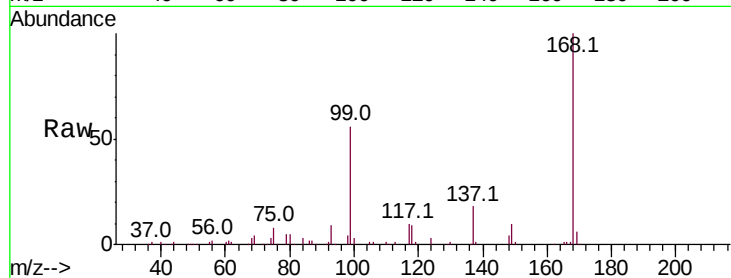
Tot Ion: 75 Resp: 30051

Ion Ratio Lower Upper

75 100

110 0.0 18.4 55.0#

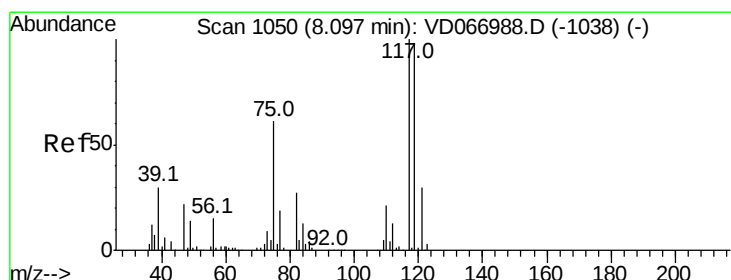
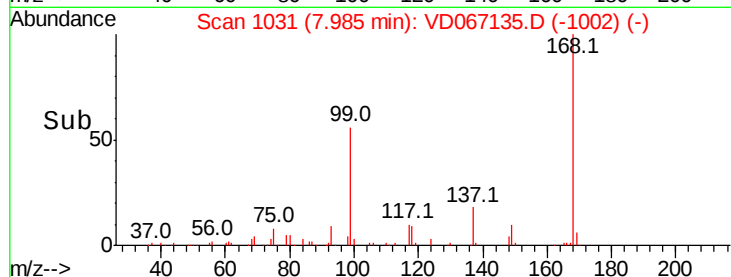
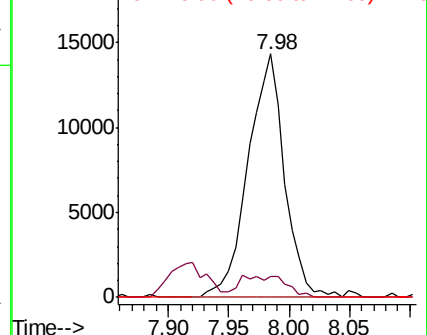
77 0.0 24.8 37.2#



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: 6.522 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067135.D

Acq: 07 Oct 2020 05:04

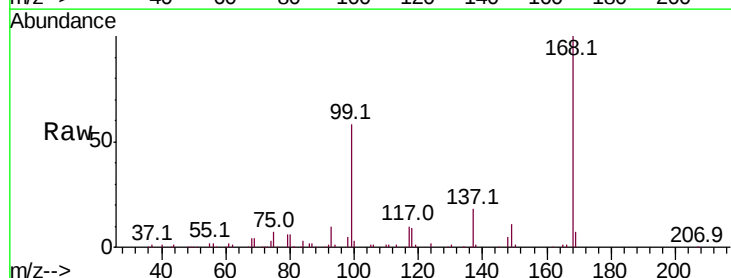
Tgt Ion: 117 Resp: 43826

Ion Ratio Lower Upper

117 100

119 5.8 78.7 118.1#

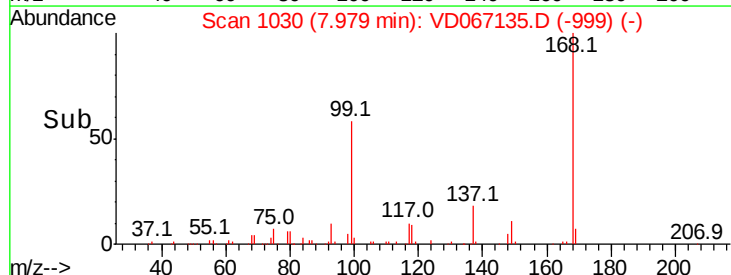
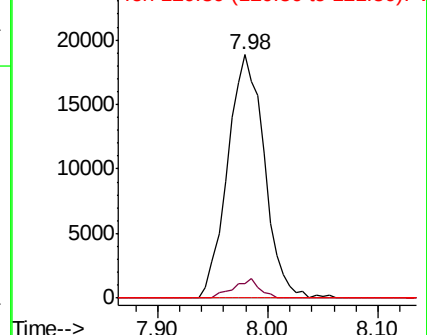
121 0.0 24.2 36.2#

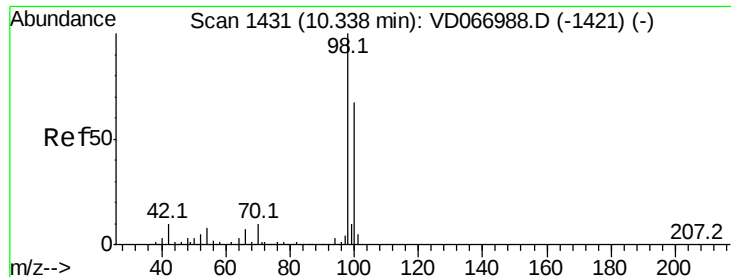


Abundance Ion 116.80 (116.50 to 117.50): VDC

Ion 118.80 (118.50 to 119.50): VDC

Ion 120.80 (120.50 to 121.50): VDC

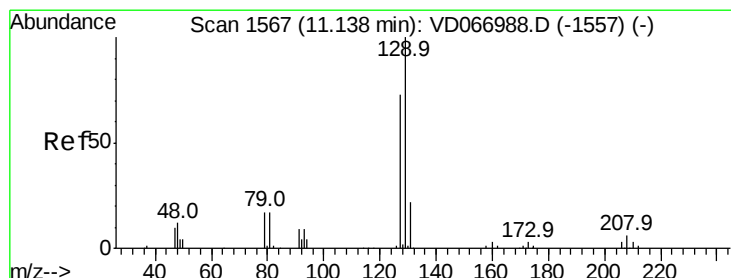
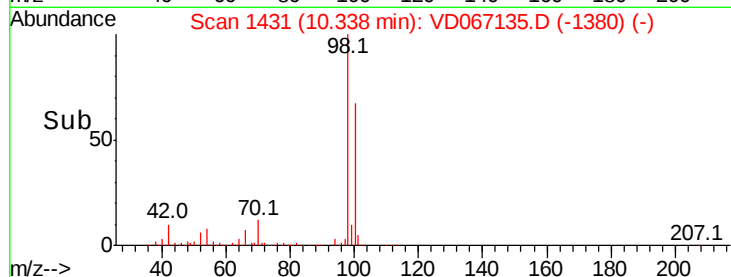
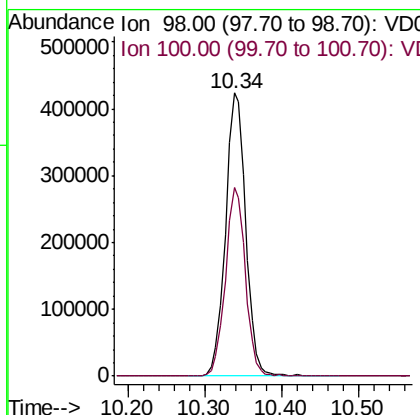
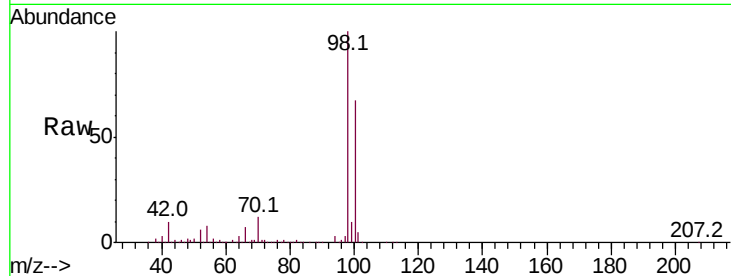




#50
Toluene-d8
Concen: 48.632 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD067135.D
Acq: 07 Oct 2020 05:04

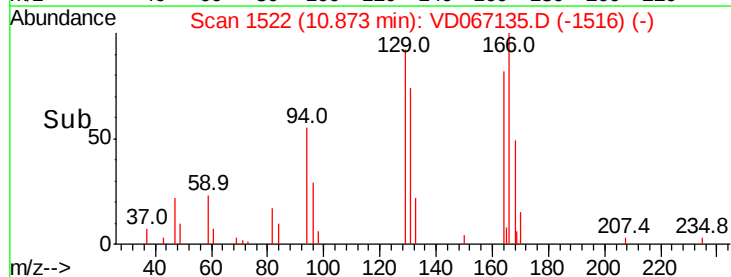
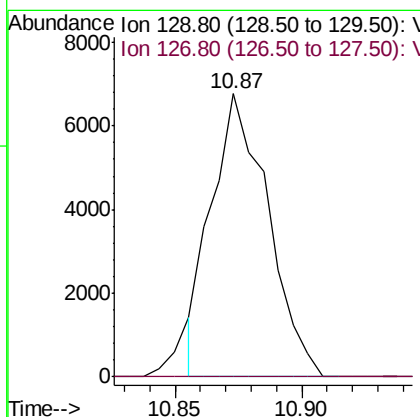
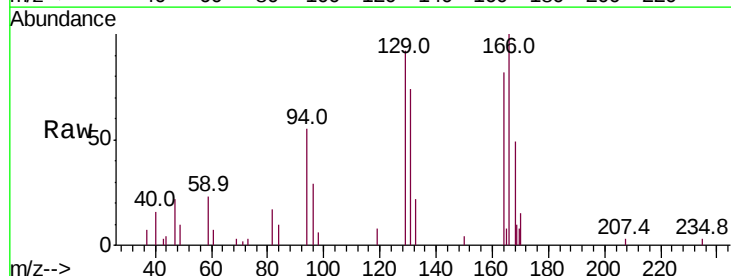
Instrument :
MSVOA_D
ClientSampleId :
SB-4A

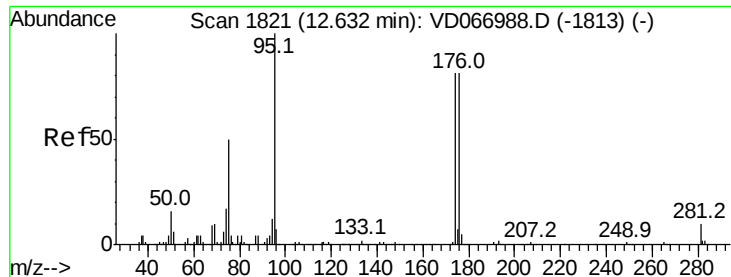
Tot Ion: 98 Resp: 772973
Ion Ratio Lower Upper
98 100
100 66.0 52.8 79.2



#60
Dibromochloromethane
Concen: 2.426 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.26 min
Lab File: VD067135.D
Acq: 07 Oct 2020 05:04

Tgt Ion: 129 Resp: 10472
Ion Ratio Lower Upper
129 100
127 0.0 37.4 112.1#

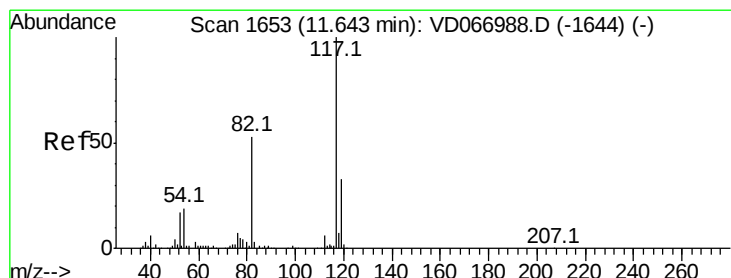
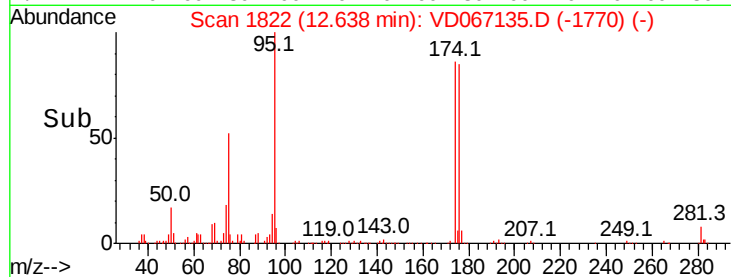
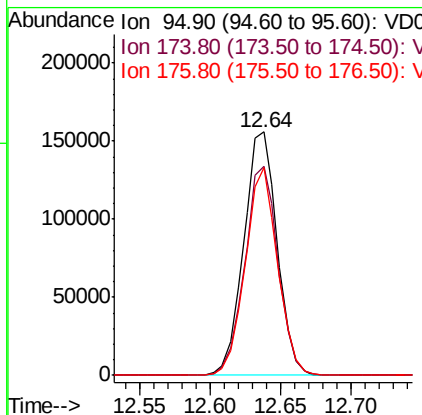
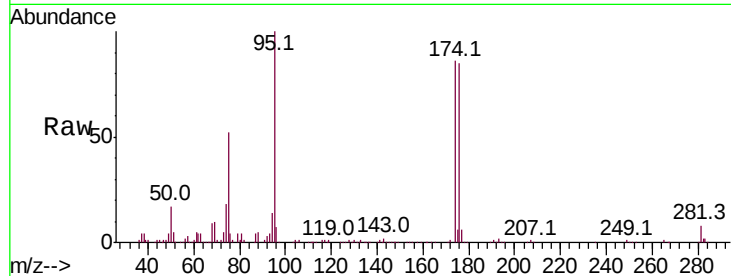




#62
4-Bromofluorobenzene
Concen: 47.924 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.01 min
Lab File: VD067135.D
Acq: 07 Oct 2020 05:04

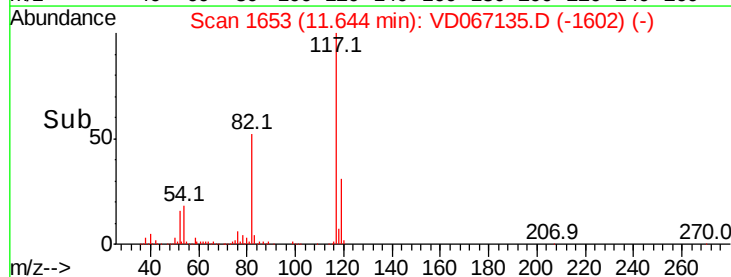
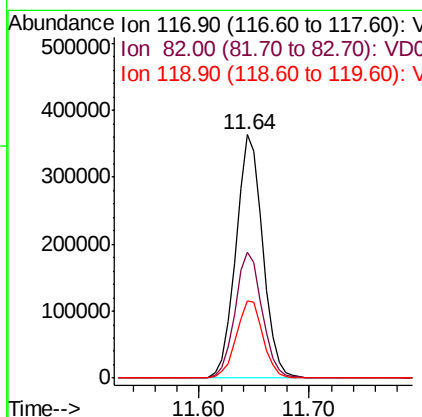
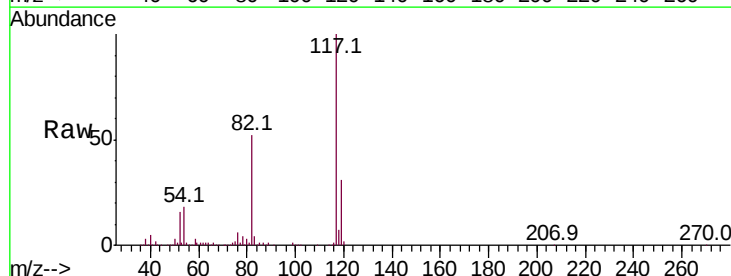
Instrument :
MSVOA_D
ClientSampled :
SB-4A

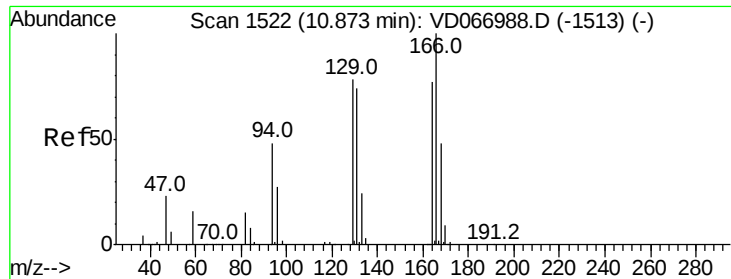
Tot Ion	95	Resp	258586
Ion Ratio	Lower	Upper	
95	100		
174	85.5	0.0	167.6
176	82.4	0.0	162.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067135.D
Acq: 07 Oct 2020 05:04

Tgt Ion	117	Resp	620271
Ion Ratio	Lower	Upper	
117	100		
82	51.9	42.6	63.8
119	31.5	26.3	39.5

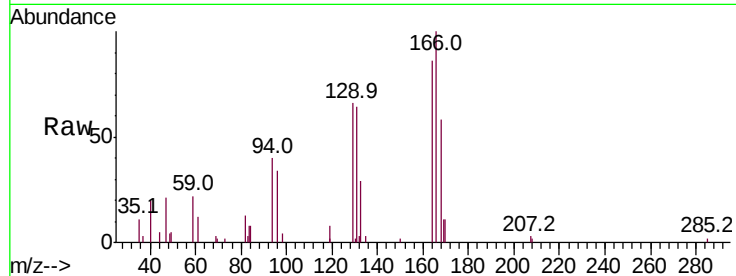




#64
Tetrachloroethene
Concen: 2.452 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.01 min
Lab File: VD067135.D
Acq: 07 Oct 2020 05:04

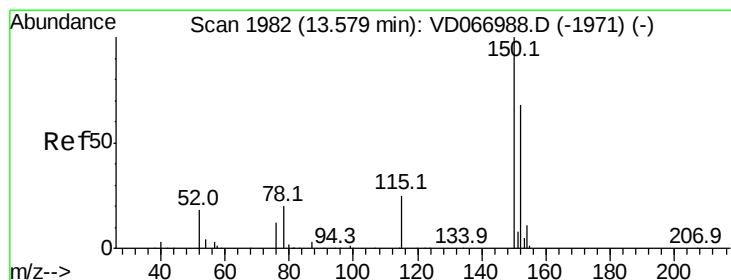
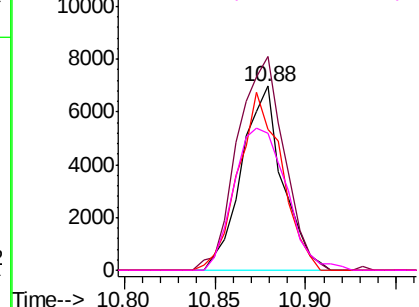
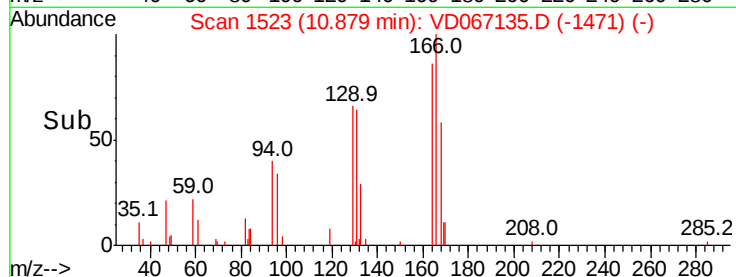
Instrument :
MSVOA_D
ClientSampleId :
SB-4A

Tot Ion:164 Resp: 11055
Ion Ratio Lower Upper
164 100
166 116.2 104.4 156.6
129 76.9 81.3 121.9#
131 74.4 77.1 115.7#



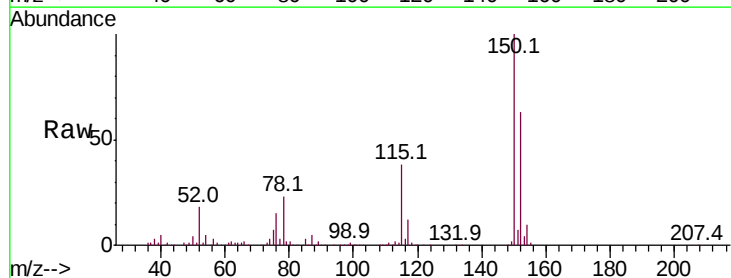
Abundance

Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V



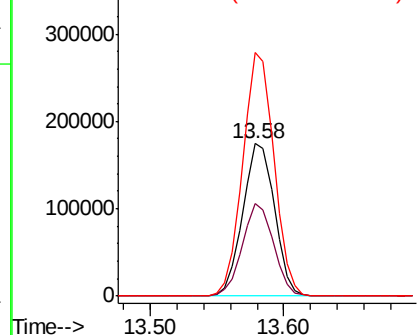
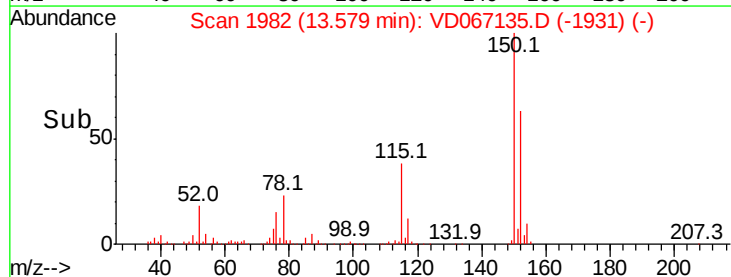
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD067135.D
Acq: 07 Oct 2020 05:04

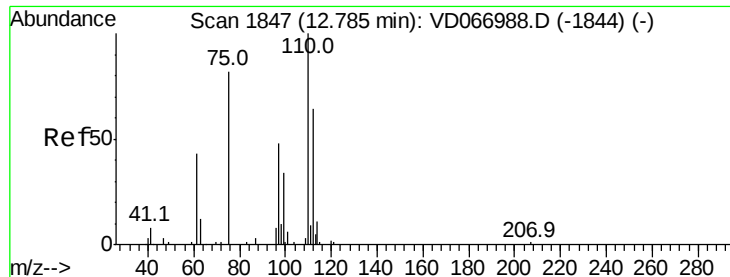
Tgt Ion:152 Resp: 288082
Ion Ratio Lower Upper
152 100
115 59.6 29.6 88.8
150 156.4 0.0 344.8



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: 51.223 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067135.D

Acq: 07 Oct 2020 05:04

Instrument :

MSVOA_D

ClientSampleId :

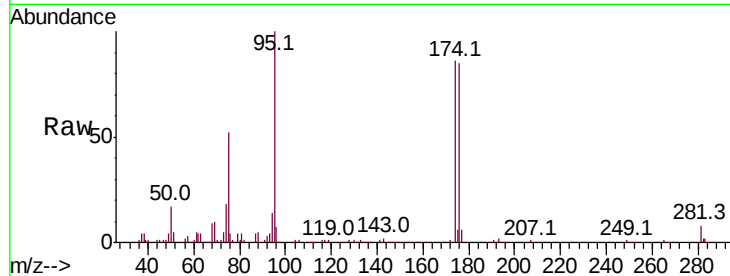
SB-4A

Tot Ion: 75 Resp: 128533

Ion Ratio Lower Upper

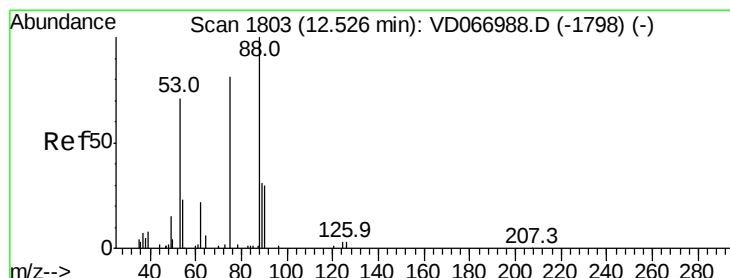
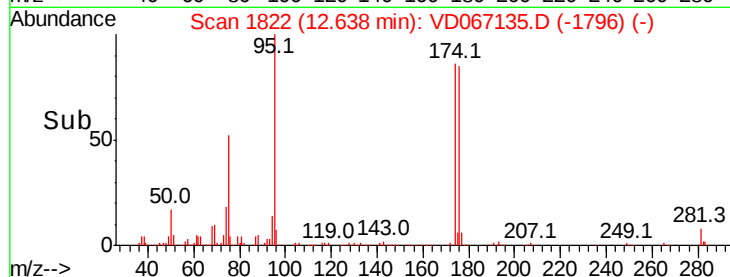
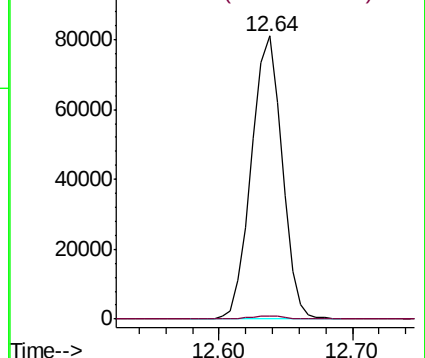
75 100

77 1.4 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: 127.705 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067135.D

Acq: 07 Oct 2020 05:04

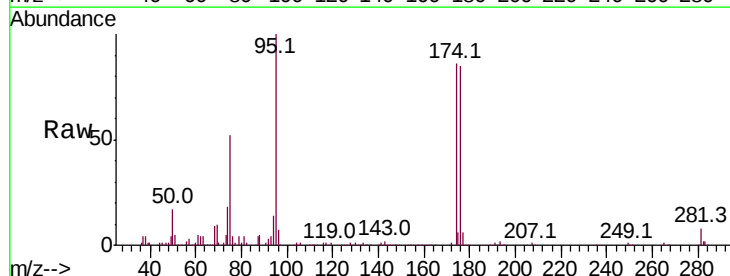
Tgt Ion: 75 Resp: 128533

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.1 38.9 58.3#



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

