

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120920\
 Data File : VD067927.D
 Acq On : 09 Dec 2020 15:25
 Operator : VA/SY
 Sample : L5008-02
 Misc : 5.02G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S-1A

Quant Time: Dec 10 02:10:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120120S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 02 08:05:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	232159	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	318971	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	270756	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	114122	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	105847	42.47	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	84.94%
35) Dibromofluoromethane	7.92	113	93885	43.99	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	87.98%
50) Toluene-d8	10.34	98	365226	47.53	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	95.06%
62) 4-Bromofluorobenzene	12.64	95	108429	40.82	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	81.64%

Target Compounds

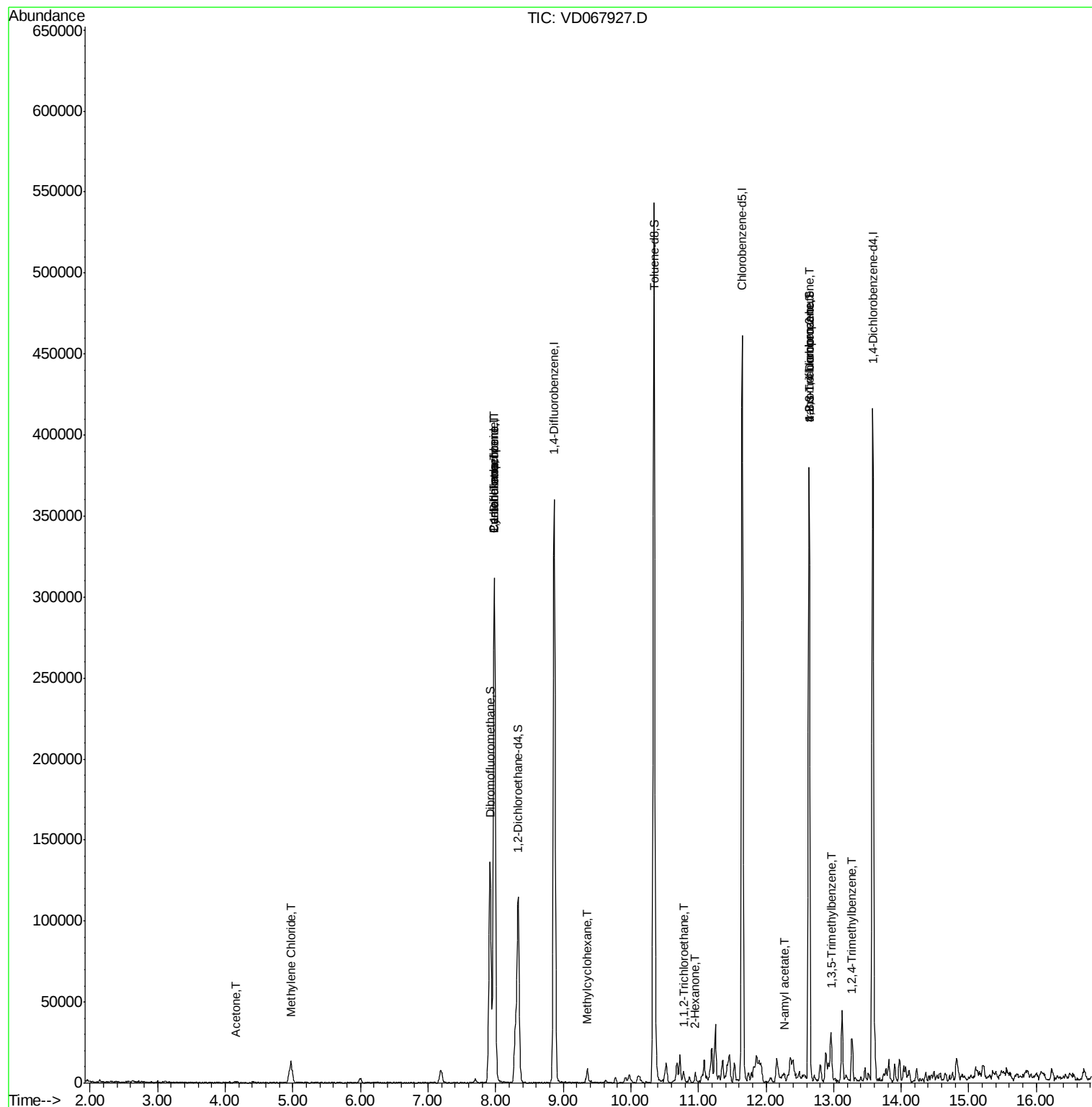
					Qvalue
11) Tert butyl alcohol	5.17	59	207	Below Cal	# 74
16) Acetone	4.16	43	832	2.702 ug/l	# 47
18) Methyl Acetate	4.70	43	68	Below Cal	# 41
20) Methylene Chloride	4.97	84	11862	2.003 ug/l	93
31) Cyclohexane	7.98	56	4279	1.630 ug/l	# 29
36) 1,1-Dichloropropene	7.99	75	15445	5.593 ug/l	# 51
38) Carbon Tetrachloride	7.98	117	25538	6.113 ug/l	# 14
39) Methylcyclohexane	9.36	83	3853	1.177 ug/l	89
55) 1,1,2-Trichloroethane	10.78	97	2887	1.957 ug/l	# 31
59) 2-Hexanone	10.94	43	2084	4.266 ug/l	# 21
74) N-amyl acetate	12.27	43	1324	1.364 ug/l	# 50
76) 1,2,3-Trichloropropane	12.64	75	61858	74.432 ug/l	# 1
80) 1,3,5-Trimethylbenzene	12.97	105	10872	1.600 ug/l	99
81) trans-1,4-Dichloro-2-buten	12.64	75	61858	178.047 ug/l	# 7
84) 1,2,4-Trimethylbenzene	13.27	105	16310	2.414 ug/l	95

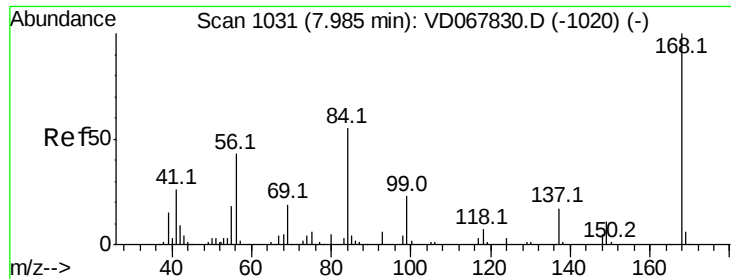
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Dec 02 08:05:58 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: VD067927.D

Acq: 09 Dec 2020 15:25

Instrument :

MSVOA_D

ClientSampleId :

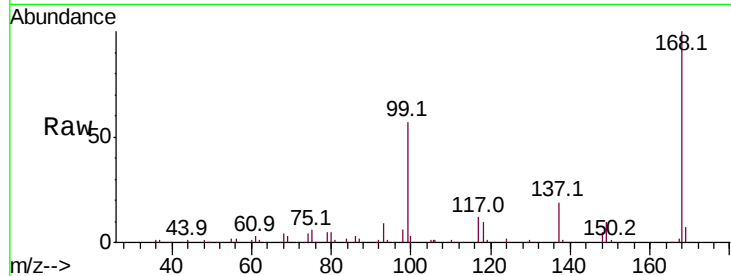
S-1A

Tot Ion:168 Resp: 232159

Ion Ratio Lower Upper

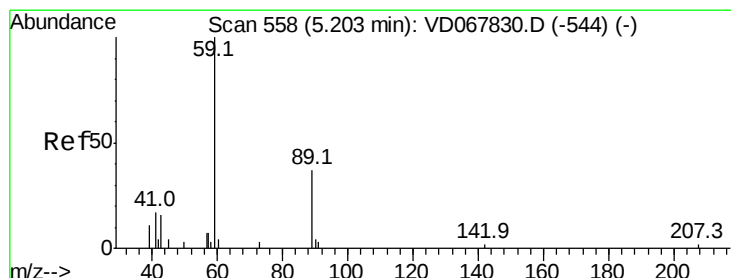
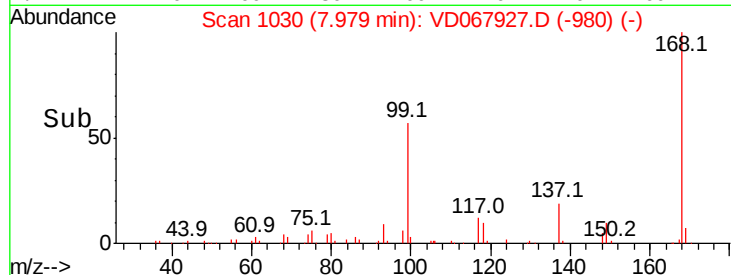
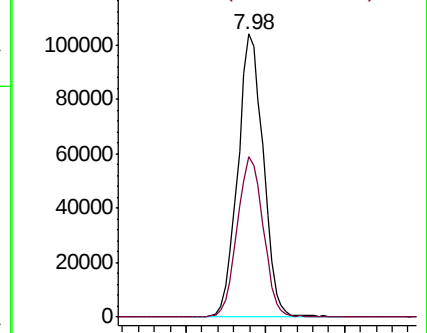
168 100

99 56.7 47.1 70.7



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: 5.17 min Scan# 552

Delta R.T. -0.03 min

Lab File: VD067927.D

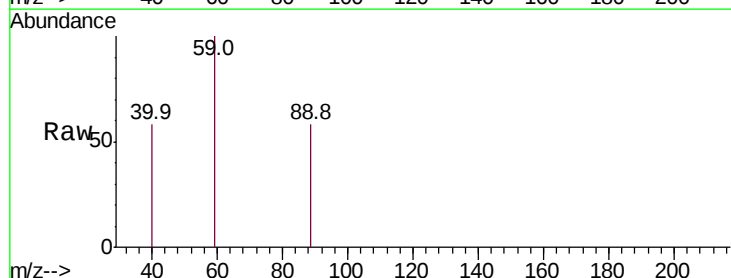
Acq: 09 Dec 2020 15:25

Tgt Ion: 59 Resp: 207

Ion Ratio Lower Upper

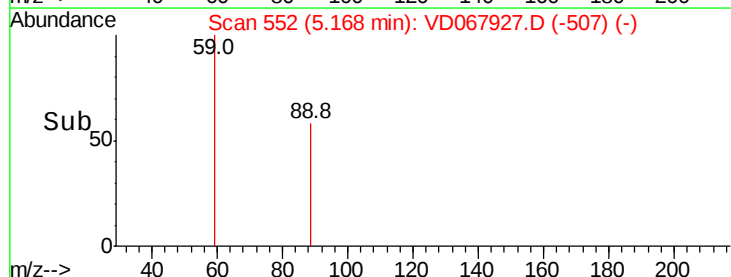
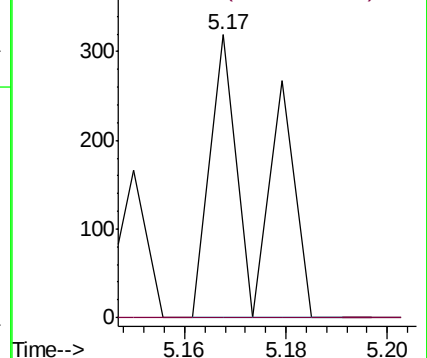
59 100

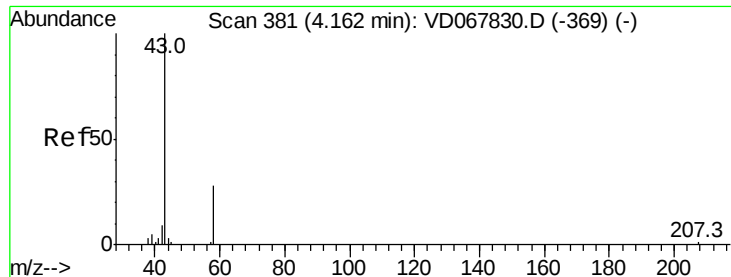
57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 2.702 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.00 min

Lab File: VD067927.D

Acq: 09 Dec 2020 15:25

Instrument :

MSVOA_D

ClientSampleId :

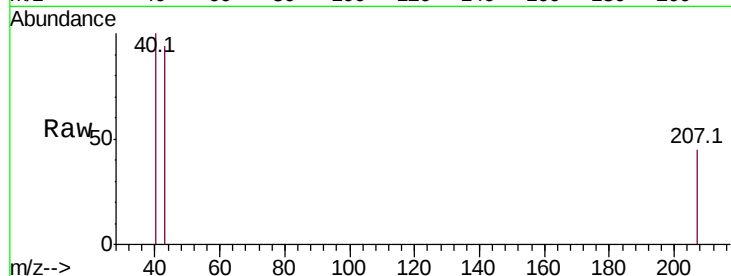
S-1A

Tot Ion: 43 Resp: 832

Ion Ratio Lower Upper

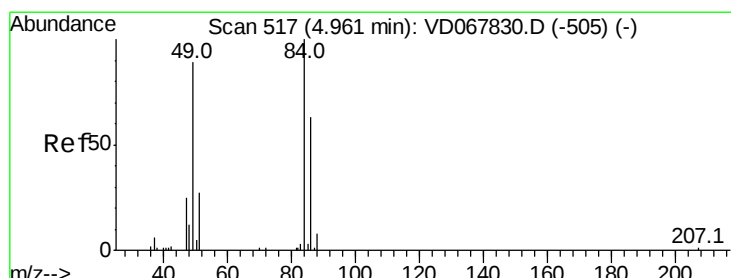
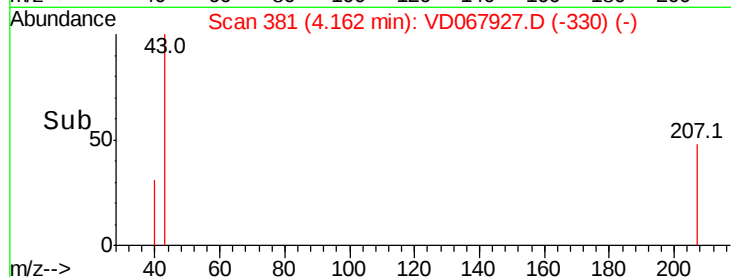
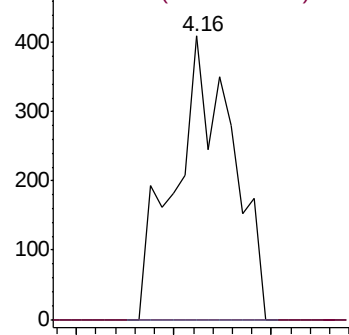
43 100

58 0.0 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: 2.003 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067927.D

Acq: 09 Dec 2020 15:25

Tgt Ion: 84 Resp: 11862

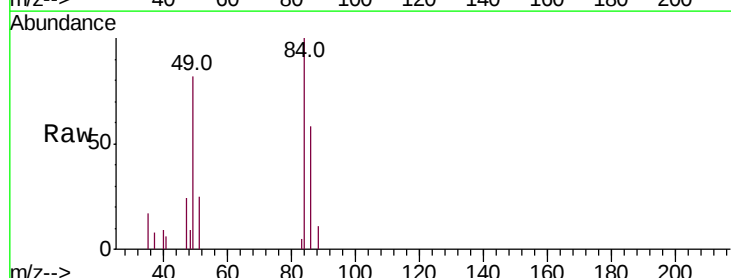
Ion Ratio Lower Upper

84 100

49 81.6 71.4 107.0

51 24.8 21.8 32.8

86 58.3 50.6 75.8

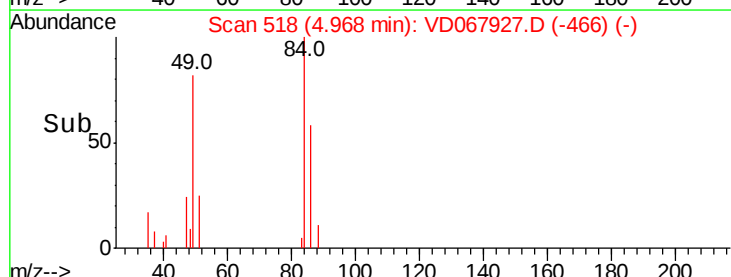
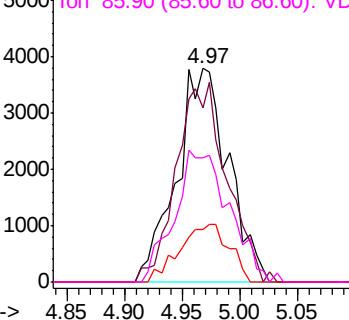


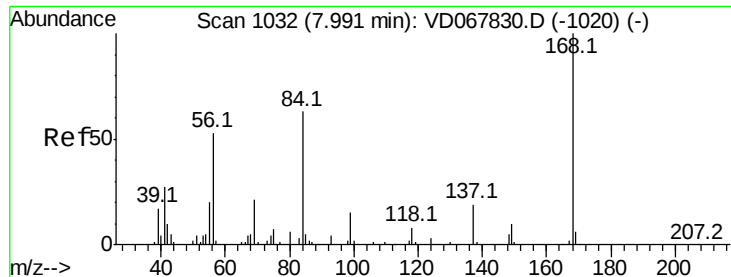
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#31

Cyclohexane

Concen: 1.630 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067927.D

Acq: 09 Dec 2020 15:25

Instrument :

MSVOA_D

ClientSampleId :

S-1A

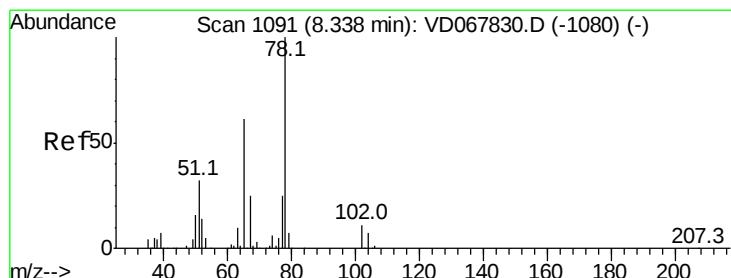
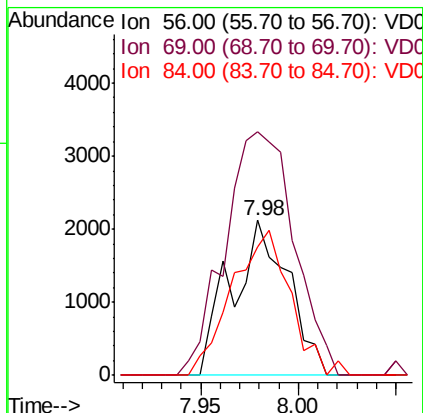
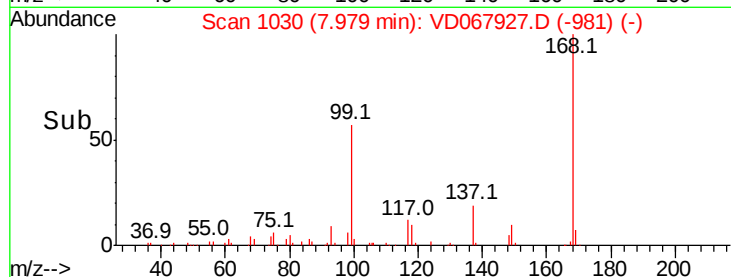
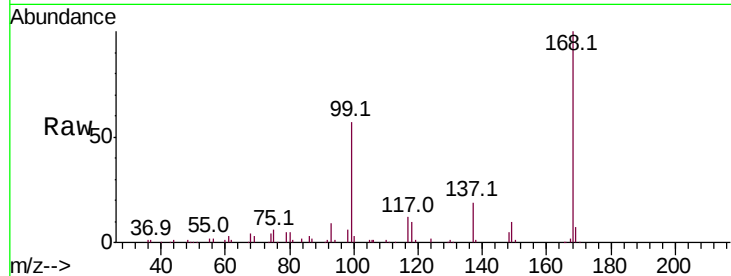
Tot Ion: 56 Resp: 4279

Ion Ratio Lower Upper

56 100

69 156.9 32.1 48.1#

84 82.7 93.2 139.8#



#33

1,2-Dichloroethane-d4

Concen: 42.469 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD067927.D

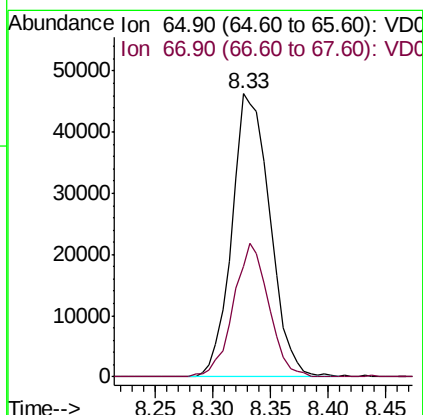
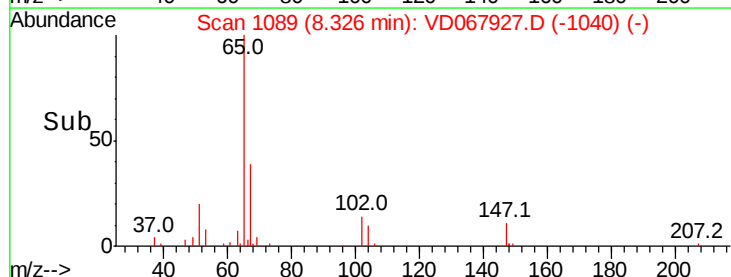
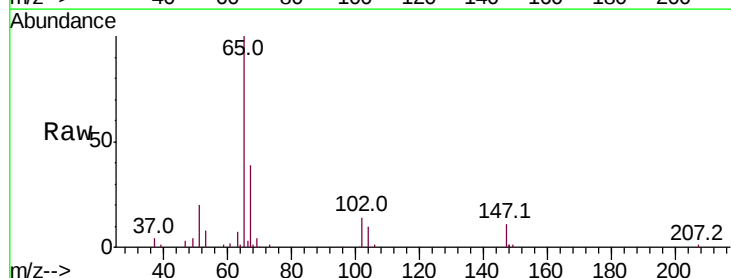
Acq: 09 Dec 2020 15:25

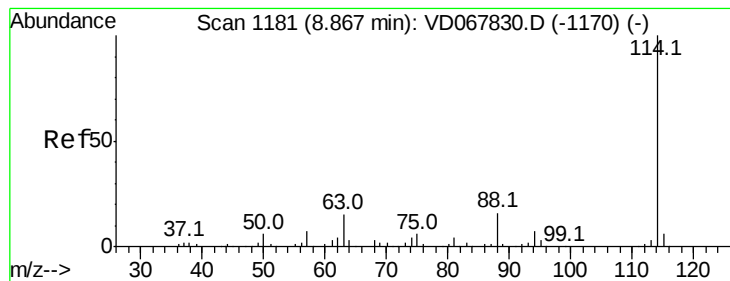
Tgt Ion: 65 Resp: 105847

Ion Ratio Lower Upper

65 100

67 43.9 0.0 92.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067927.D

Acq: 09 Dec 2020 15:25

Instrument :

MSVOA_D

ClientSampleId :

S-1A

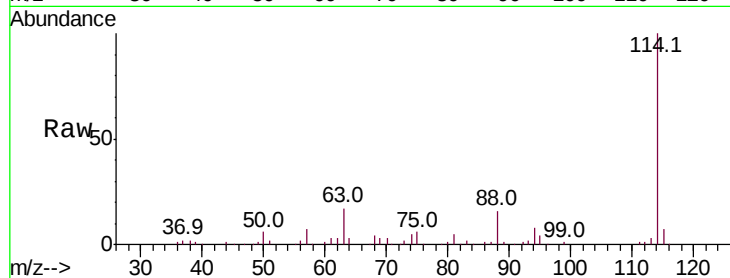
Tot Ion:114 Resp: 318971

Ion Ratio Lower Upper

114 100

63 16.7 0.0 30.8

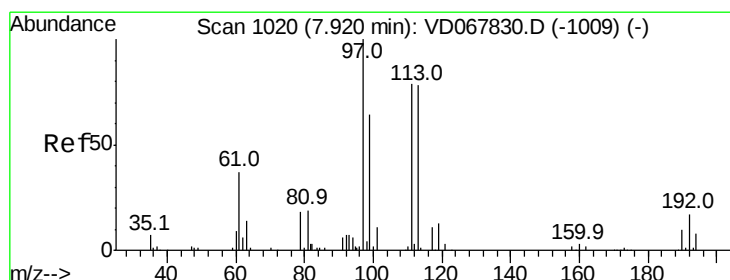
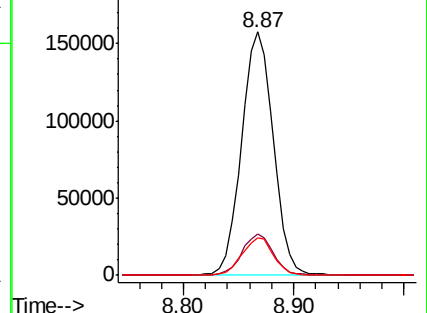
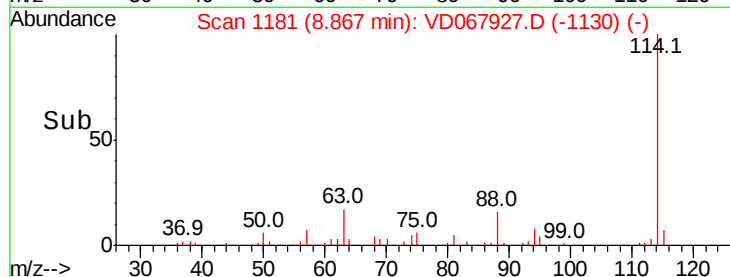
88 15.5 0.0 31.8



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: 43.987 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD067927.D

Acq: 09 Dec 2020 15:25

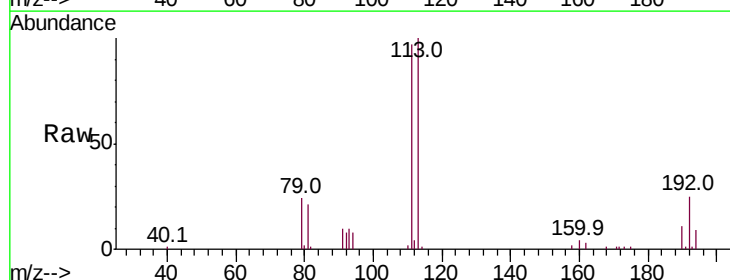
Tgt Ion:113 Resp: 93885

Ion Ratio Lower Upper

113 100

111 100.3 81.2 121.8

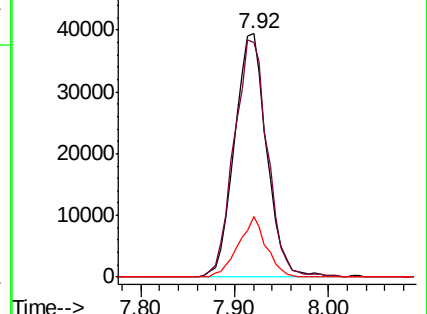
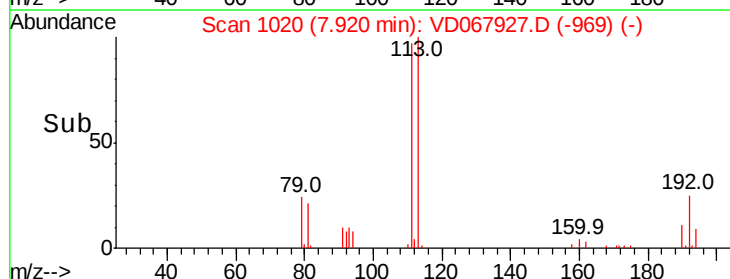
192 21.4 16.8 25.2

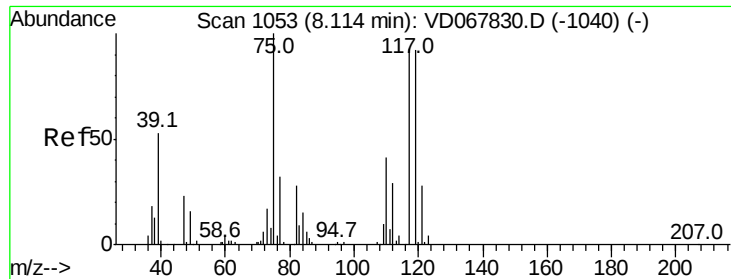


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

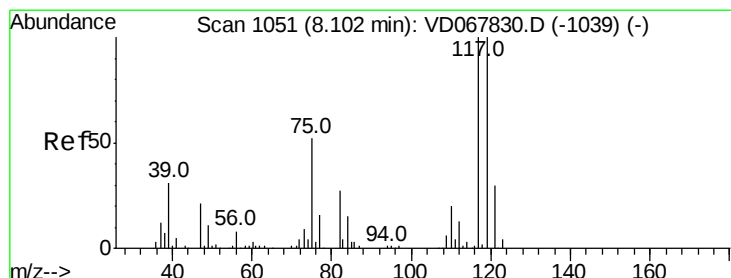
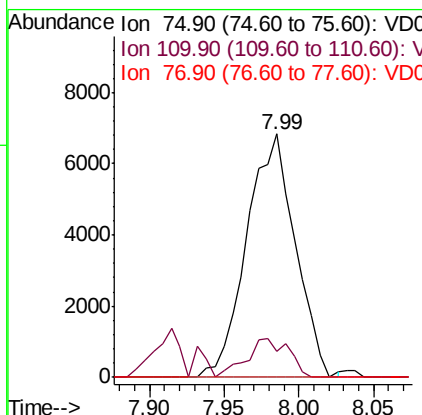
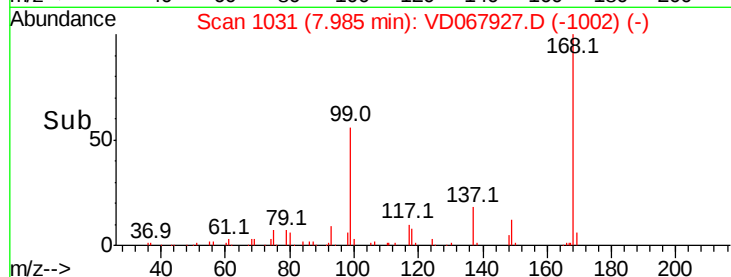
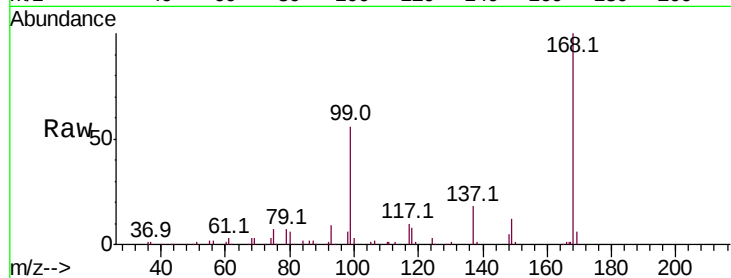




#36
 1,1-Dichloropropene
 Concen: 5.593 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD067927.D
 Acq: 09 Dec 2020 15:25

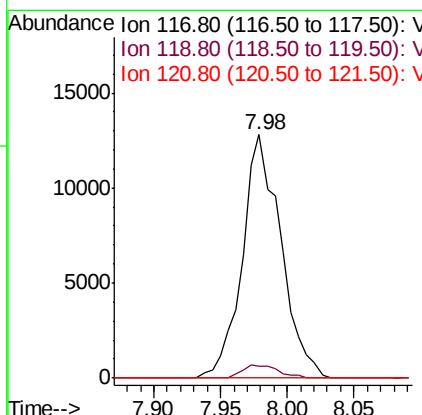
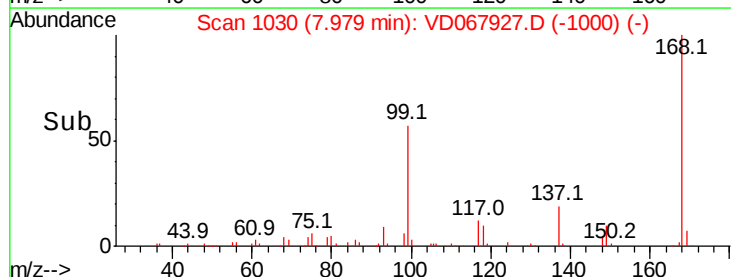
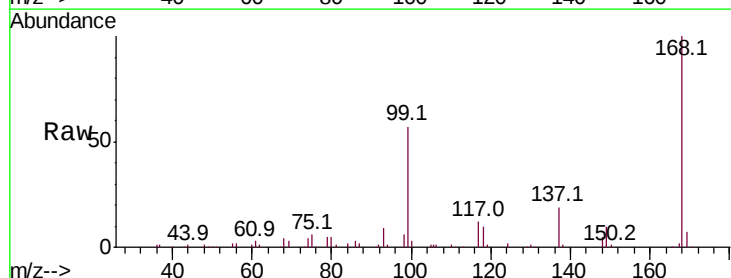
Instrument :
 MSVOA_D
 ClientSampleId :
 S-1A

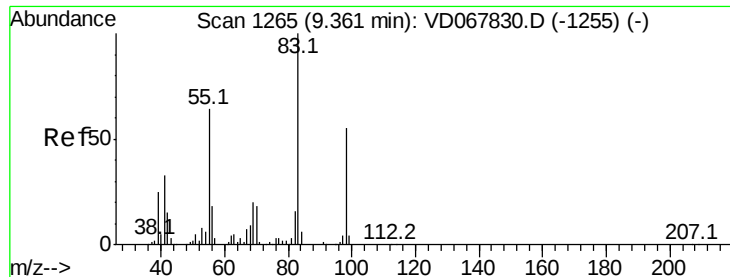
Tot Ion: 75 Resp: 15445
 Ion Ratio Lower Upper
 75 100
 110 13.7 20.3 61.0#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.113 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.12 min
 Lab File: VD067927.D
 Acq: 09 Dec 2020 15:25

Tgt Ion: 117 Resp: 25538
 Ion Ratio Lower Upper
 117 100
 119 5.1 79.7 119.5#
 121 0.0 23.8 35.6#

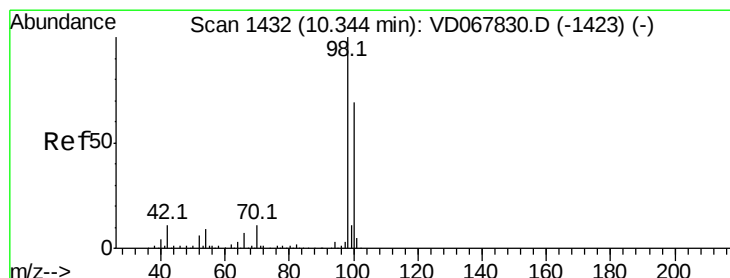
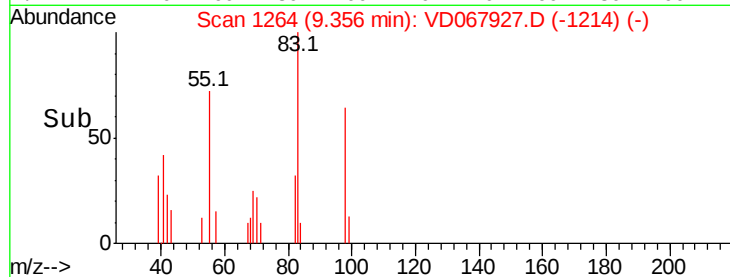
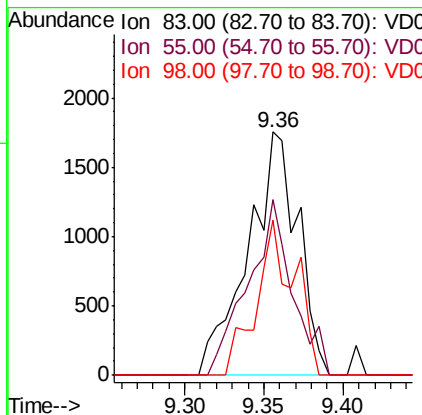
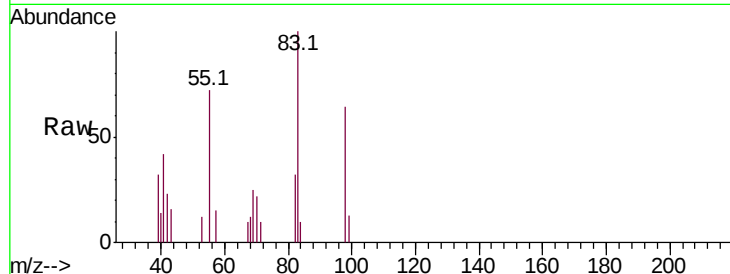




#39
Methvlcvclohexane
Concen: 1.177 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VD067927.D
Acq: 09 Dec 2020 15:25

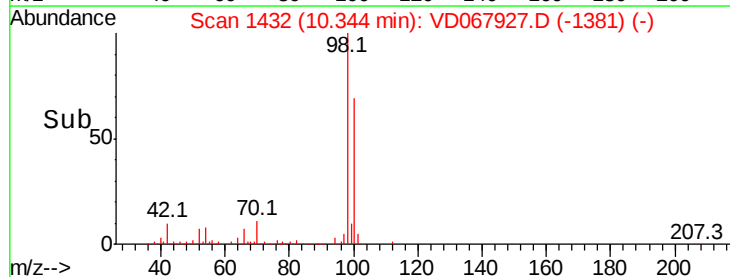
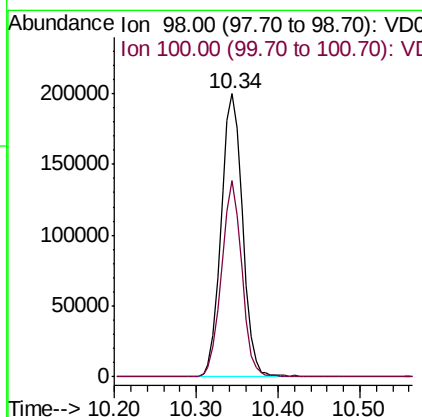
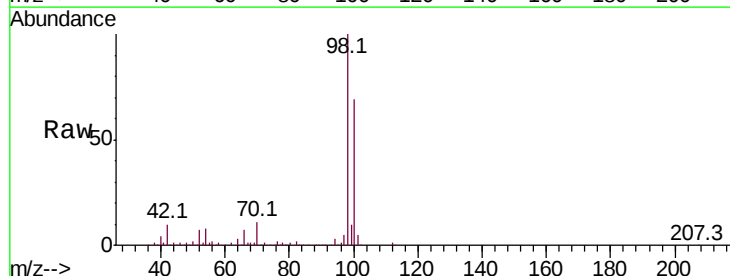
Instrument :
MSVOA_D
ClientSampleId :
S-1A

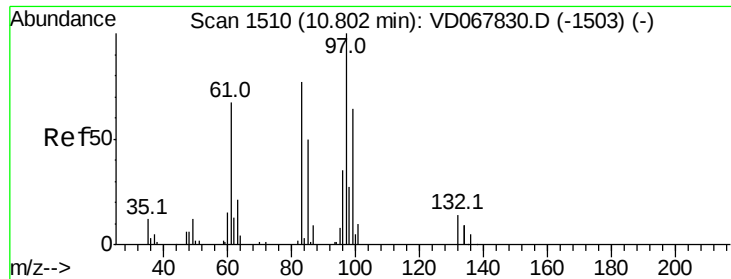
Tot Ion	83	Resp	3853
Ion	Ratio	Lower	Upper
83	100		
55	72.0	51.6	77.4
98	63.9	44.3	66.5



#50
Toluene-d8
Concen: 47.535 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067927.D
Acq: 09 Dec 2020 15:25

Tgt Ion	98	Resp	365226
Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.9	79.3

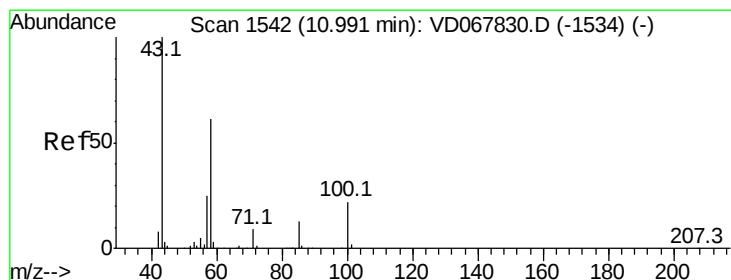
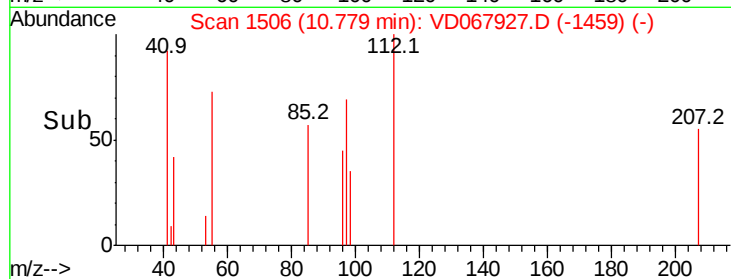
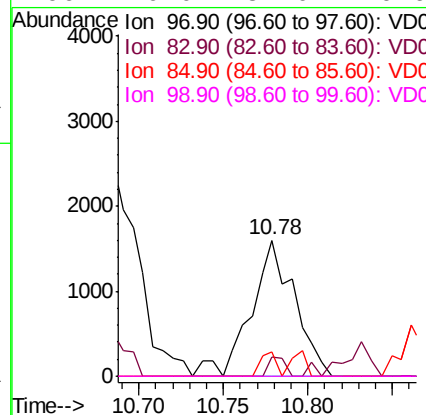
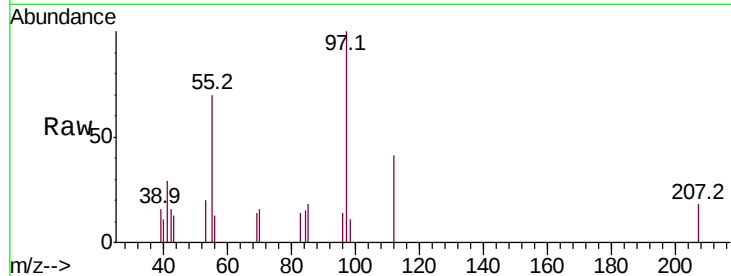




#55
 1,1,2-Trichloroethane
 Concen: 1.957 ug/l
 RT: 10.78 min Scan# 1506
 Delta R.T. -0.02 min
 Lab File: VD067927.D
 Acq: 09 Dec 2020 15:25

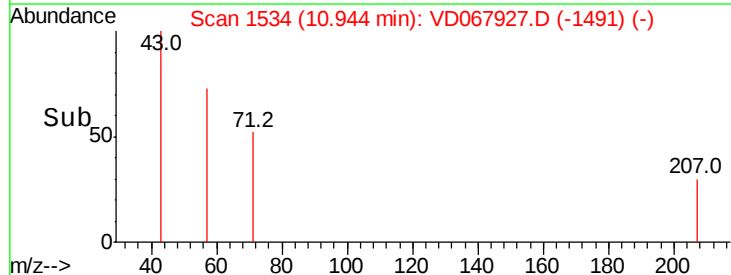
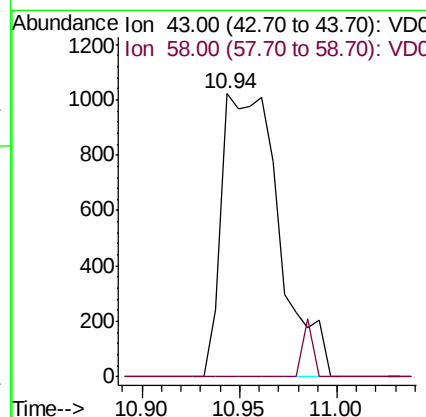
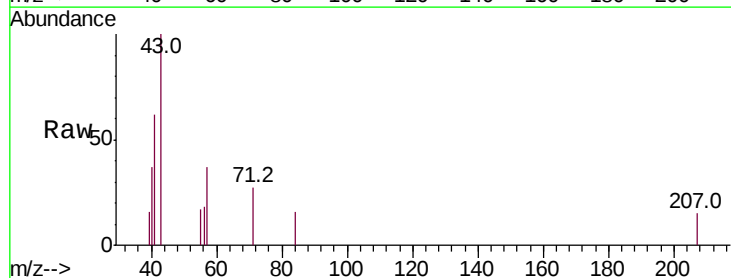
Instrument :
 MSVOA_D
 ClientSampled :
 S-1A

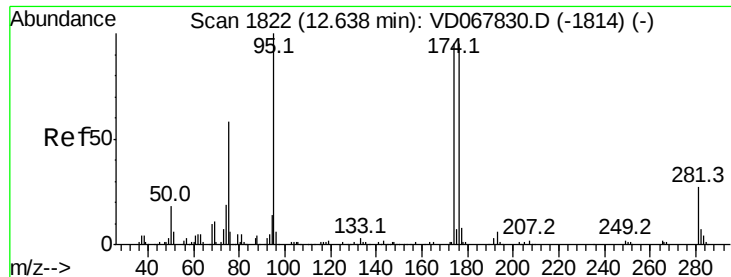
Tot Ion: 97 Resp: 2887
 Ion Ratio Lower Upper
 97 100
 83 14.2 61.9 92.9#
 85 18.1 40.2 60.4#
 99 0.0 51.0 76.6#



#59
 2-Hexanone
 Concen: 4.266 ug/l
 RT: 10.94 min Scan# 1534
 Delta R.T. -0.05 min
 Lab File: VD067927.D
 Acq: 09 Dec 2020 15:25

Tgt Ion: 43 Resp: 2084
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.9 89.7#





#62

4-Bromofluorobenzene

Concen: 40.819 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067927.D

Acq: 09 Dec 2020 15:25

Instrument :

MSVOA_D

ClientSampleId :

S-1A

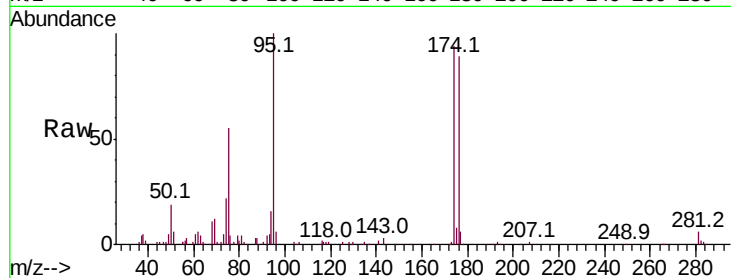
Tot Ion: 95 Resp: 108429

Ion Ratio Lower Upper

95 100

174 95.4 0.0 186.0

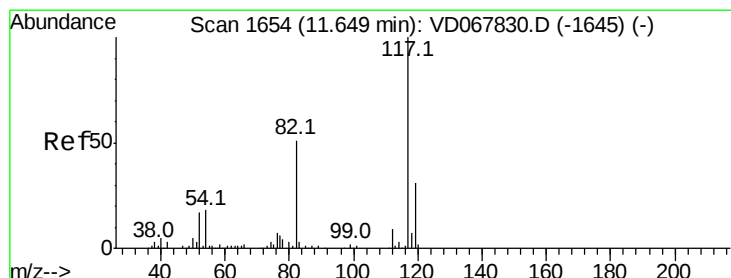
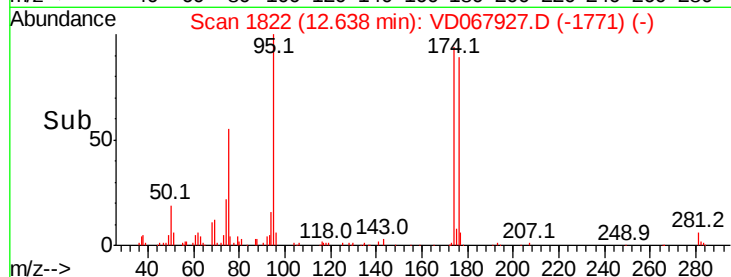
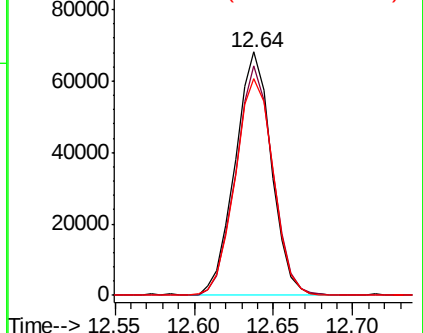
176 93.3 0.0 184.2



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: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD067927.D

Acq: 09 Dec 2020 15:25

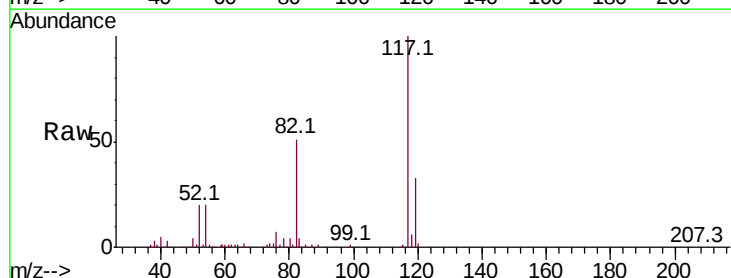
Tgt Ion: 117 Resp: 270756

Ion Ratio Lower Upper

117 100

82 51.3 40.6 60.8

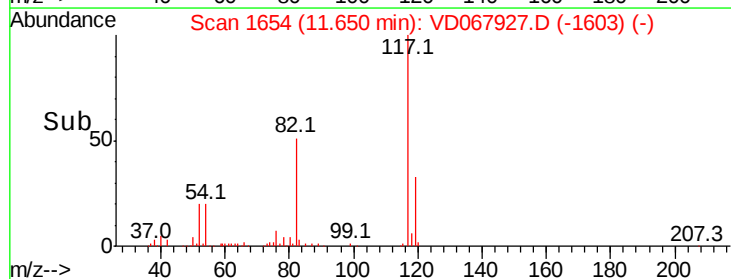
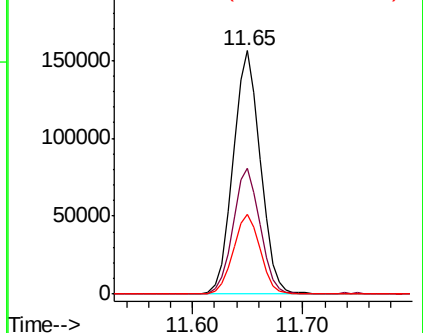
119 32.8 25.1 37.7

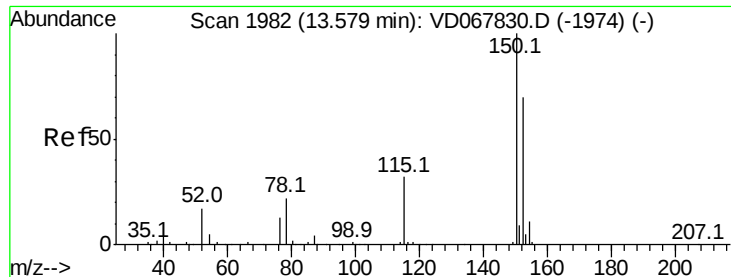


Abundance Ion 116.90 (116.60 to 117.60): V

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: VD067927.D

Acq: 09 Dec 2020 15:25

Instrument :

MSVOA_D

ClientSampled :

S-1A

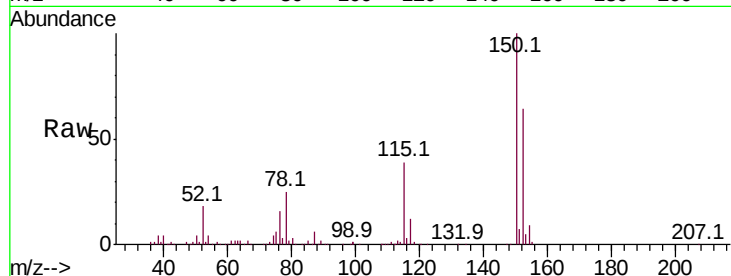
Tot Ion:152 Resp: 114122

Ion Ratio Lower Upper

152 100

115 61.0 29.1 87.4

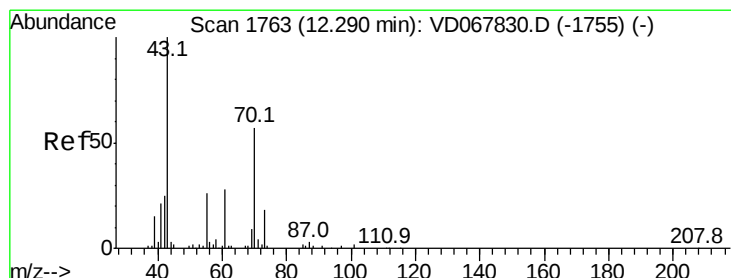
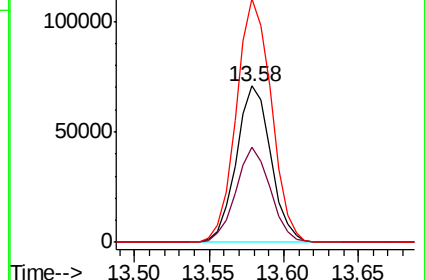
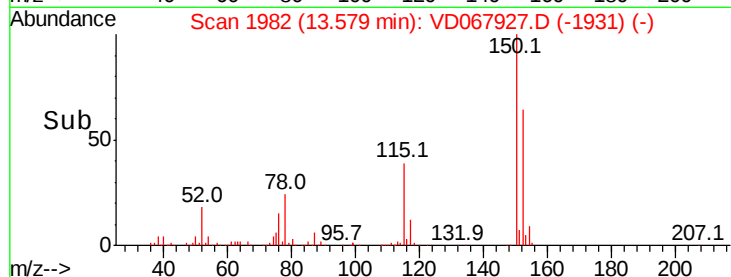
150 157.7 0.0 339.0



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



#74

N-ethyl acetate

Concen: 1.364 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD067927.D

Acq: 09 Dec 2020 15:25

Tgt Ion: 43 Resp: 1324

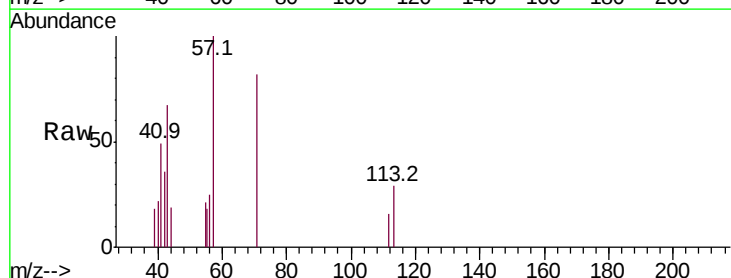
Ion Ratio Lower Upper

43 100

70 22.3 44.6 66.8#

55 0.0 22.2 33.2#

61 0.0 22.7 34.1#

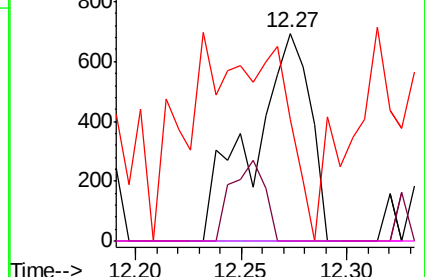
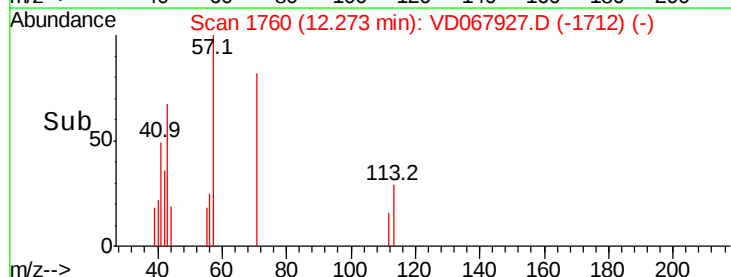


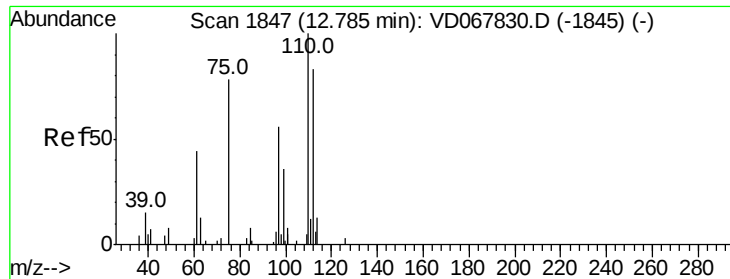
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#76

1,2,3-Trichloropropane

Concen: 74.432 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067927.D

Acq: 09 Dec 2020 15:25

Instrument :

MSVOA_D

ClientSampleId :

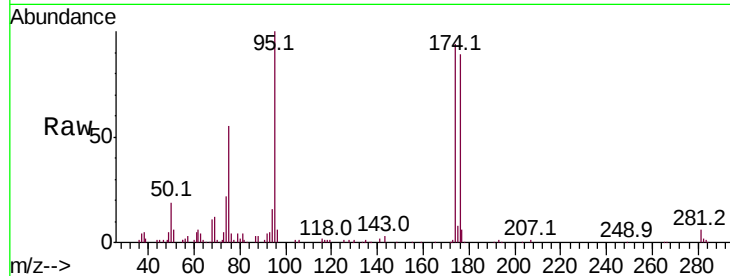
S-1A

Tot Ion: 75 Resp: 61858

Ion Ratio Lower Upper

75 100

77 1.0 175.9 527.7#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.64

40000

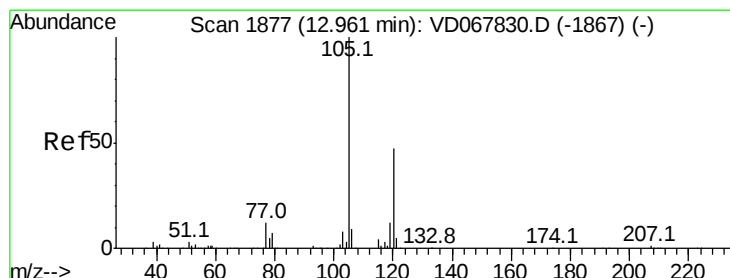
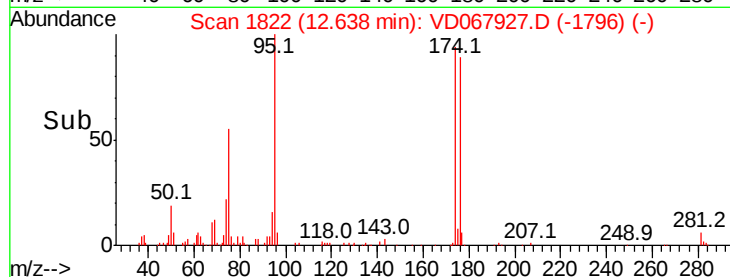
30000

20000

10000

0

Time--> 12.55 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 1.600 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VD067927.D

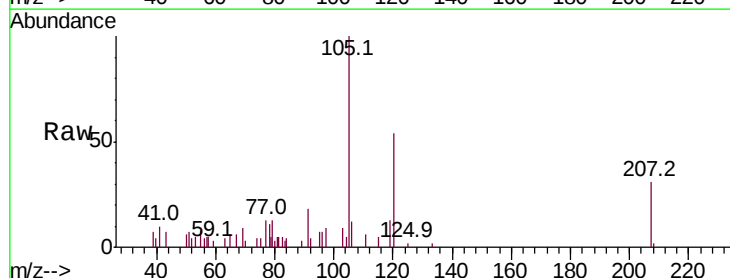
Acq: 09 Dec 2020 15:25

Tgt Ion:105 Resp: 10872

Ion Ratio Lower Upper

105 100

120 49.4 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.97

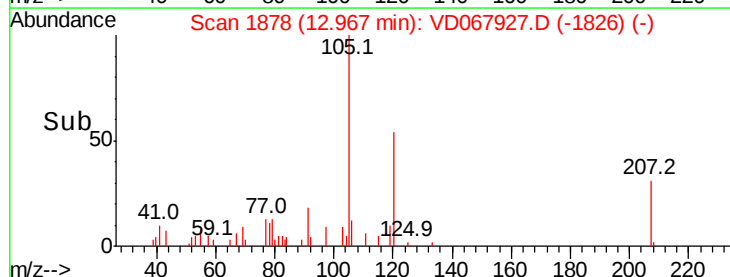
6000

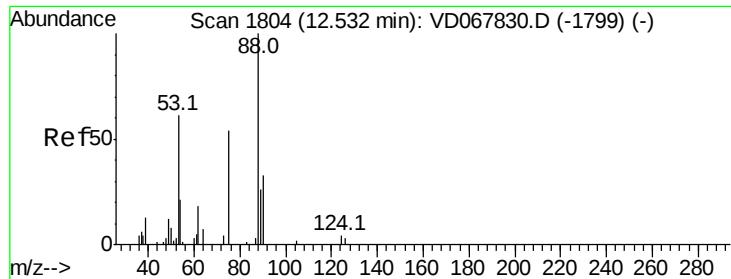
4000

2000

0

Time--> 12.95 13.00





#81

trans-1,4-Dichloro-2-butene

Concen: 178.047 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067927.D

Acq: 09 Dec 2020 15:25

Instrument :

MSVOA_D

ClientSampleId :

S-1A

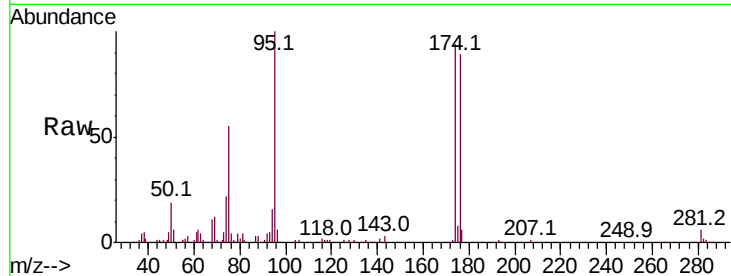
Tot Ion: 75 Resp: 61858

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

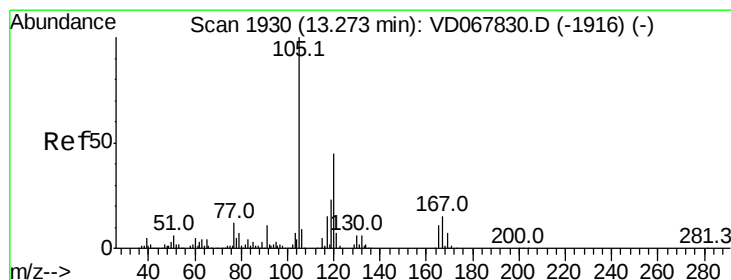
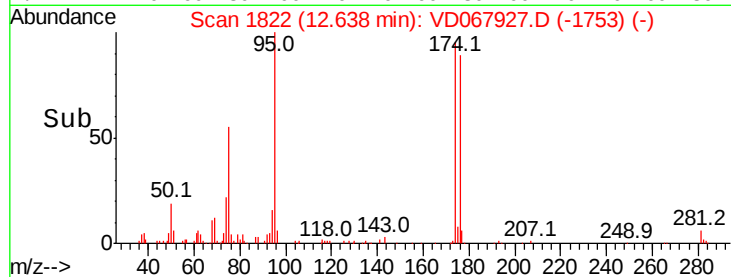
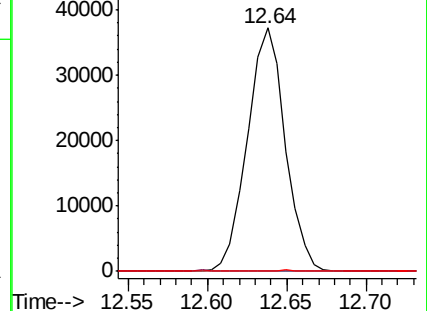
89 0.2 41.0 61.6#



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: 2.414 ug/l

RT: 13.27 min Scan# 1929

Delta R.T. -0.01 min

Lab File: VD067927.D

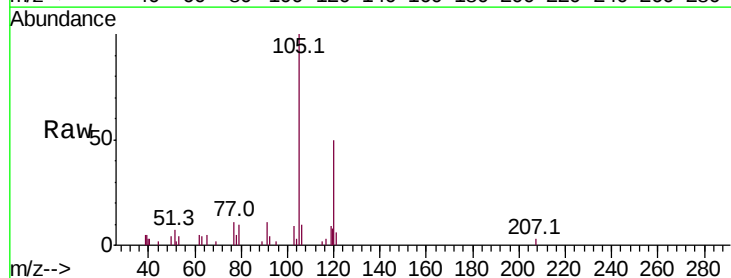
Acq: 09 Dec 2020 15:25

Tgt Ion: 105 Resp: 16310

Ion Ratio Lower Upper

105 100

120 47.3 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

