

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120220\
 Data File : VD067851.D
 Acq On : 02 Dec 2020 22:19
 Operator : VA/SY
 Sample : L4911-04
 Misc : 6.77G/5.00ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SK-12-1-SPD

Quant Time: Dec 03 00:37:24 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	237366	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	338307	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	301008	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	139486	50.00	ug/l	0.00

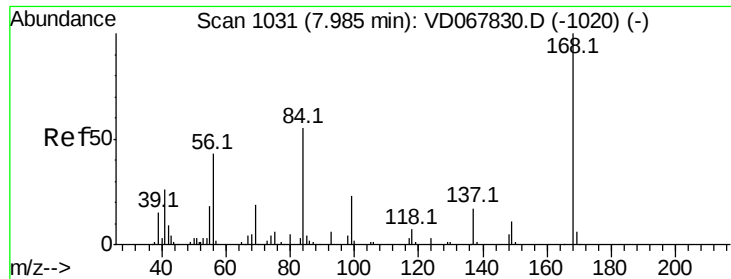
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	123592	48.50	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.00%
35) Dibromofluoromethane	7.91	113	104126	46.00	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	92.00%
50) Toluene-d8	10.34	98	382996	47.00	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	94.00%
62) 4-Bromofluorobenzene	12.64	95	121069	42.97	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	85.94%

Target Compounds

					Qvalue
20) Methylene Chloride	4.96	84	4092	Below Cal	91
29) Tetrahydrofuran	7.56	42	542	2.874 ug/l #	76
31) Cyclohexane	7.98	56	4298	1.601 ug/l #	24
36) 1,1-Dichloropropene	7.98	75	16126	5.506 ug/l #	51
38) Carbon Tetrachloride	7.98	117	24711	5.577 ug/l #	16
41) Methacrylonitrile	7.57	41	233	Below Cal #	14
51) 4-Methyl-2-Pentanone	10.35	43	1302	1.771 ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	63954	62.961 ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.63	75	63954	150.607 ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067851.D

Acq: 02 Dec 2020 22:19

Instrument :

MSVOA_D

ClientSampleId :

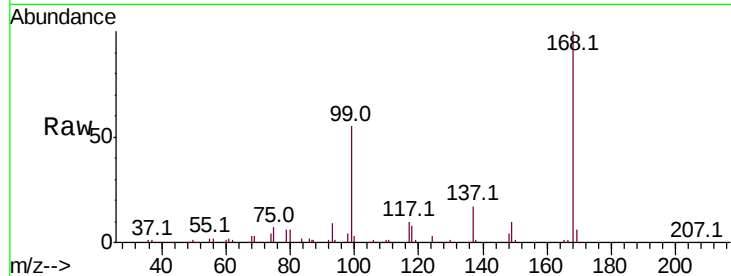
SK-12-1-SPD

Tot Ion:168 Resp: 237366

Ion Ratio Lower Upper

168 100

99 54.6 47.1 70.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

120000

100000

80000

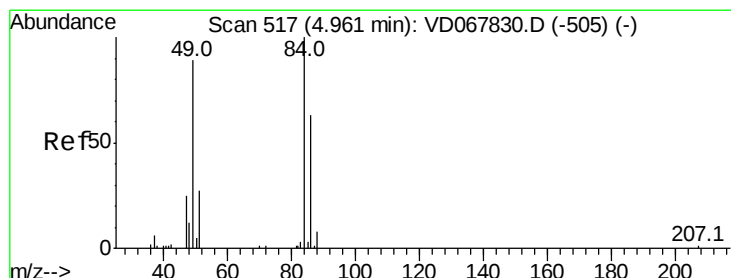
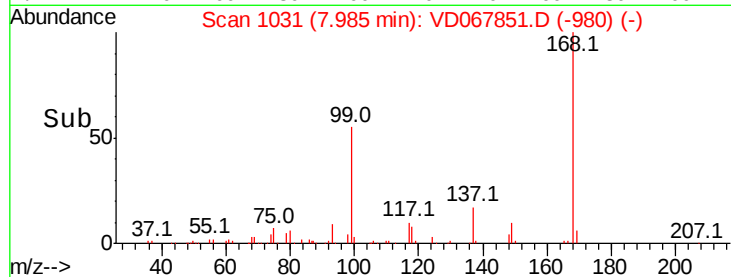
60000

40000

20000

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD067851.D

Acq: 02 Dec 2020 22:19

Tgt Ion: 84 Resp: 4092

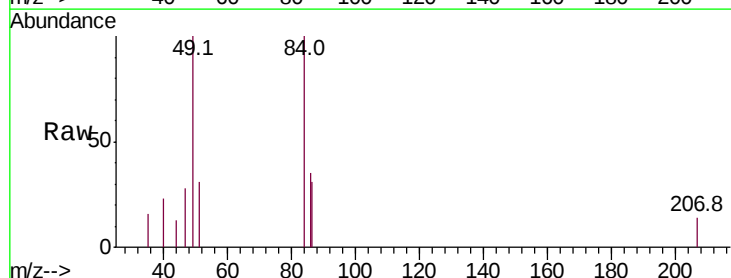
Ion Ratio Lower Upper

84 100

49 100.3 71.4 107.0

51 30.8 21.8 32.8

86 66.8 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

2500

2000

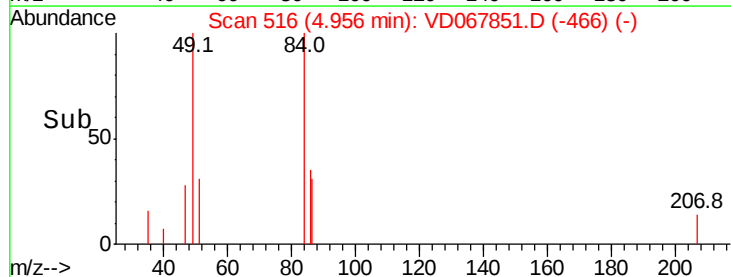
1500

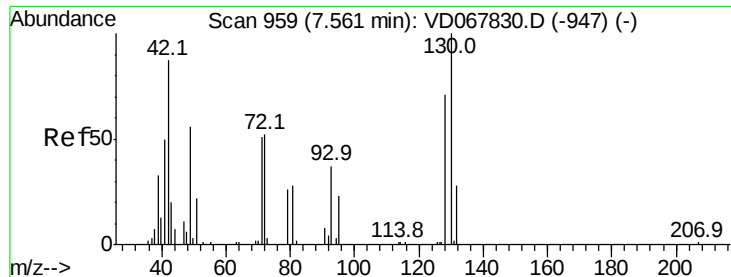
1000

500

0

Time-->

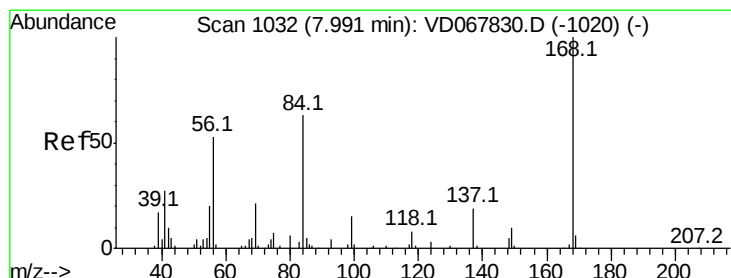
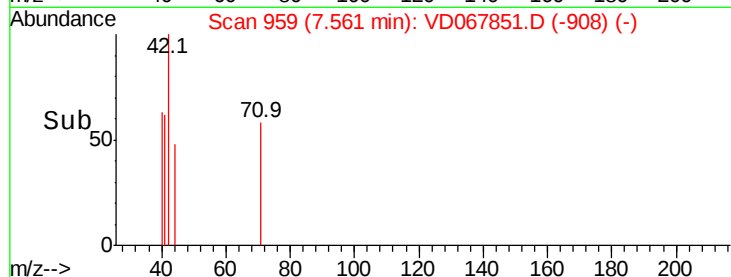
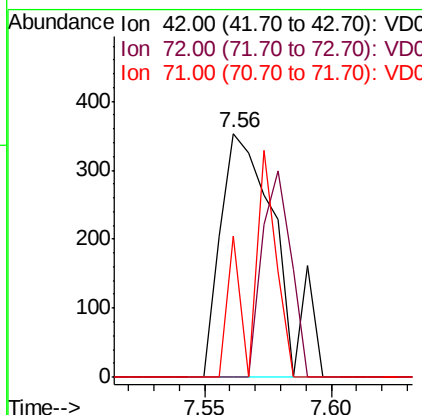
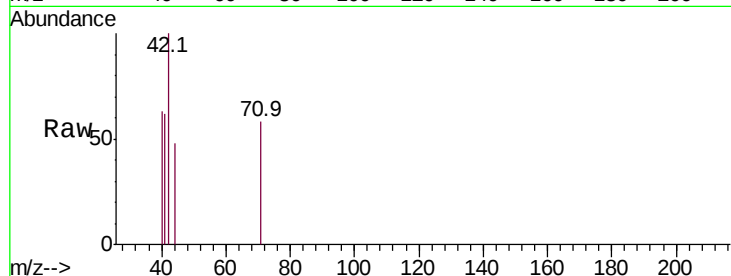




#29
Tetrahydrofuran
Concen: 2.874 ug/l
RT: 7.56 min Scan# 959
Delta R.T. 0.00 min
Lab File: VD067851.D
Acq: 02 Dec 2020 22:19

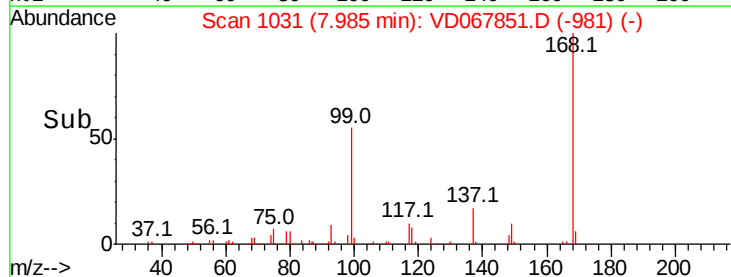
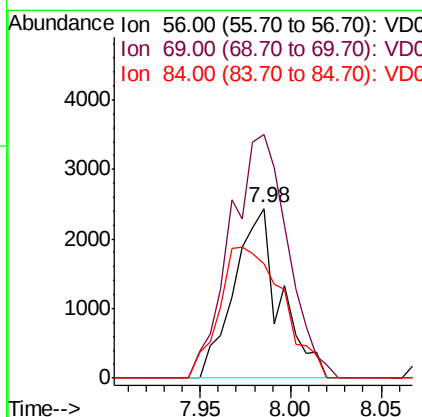
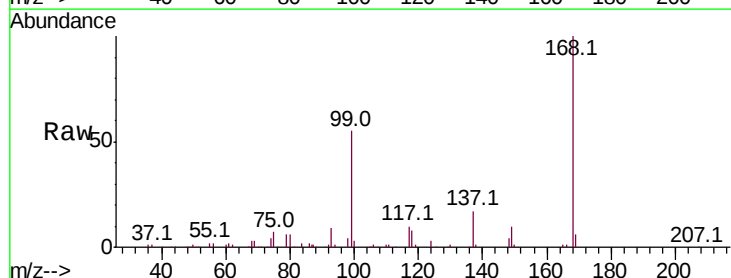
Instrument :
MSVOA_D
ClientSampleId :
SK-12-1-SPD

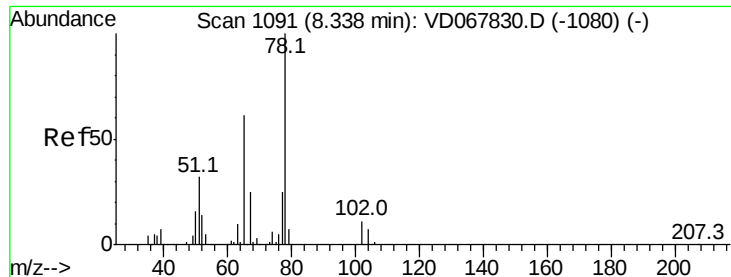
Tot Ion: 42 Resp: 542
Ion Ratio Lower Upper
42 100
72 44.1 51.9 77.9#
71 44.6 48.2 72.4#



#31
Cyclohexane
Concen: 1.601 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VD067851.D
Acq: 02 Dec 2020 22:19

Tgt Ion: 56 Resp: 4298
Ion Ratio Lower Upper
56 100
69 143.5 32.1 48.1#
84 67.1 93.2 139.8#





#33

1,2-Dichloroethane-d4

Concen: 48.501 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD067851.D

Acq: 02 Dec 2020 22:19

Instrument :

MSVOA_D

ClientSampleId :

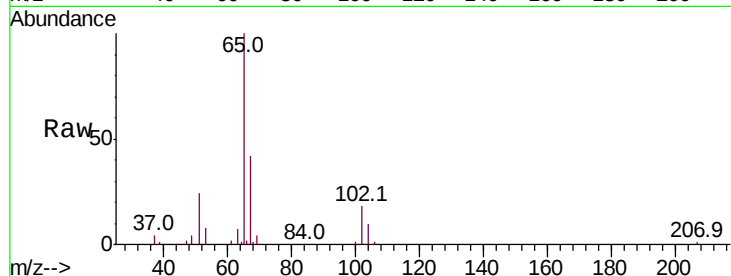
SK-12-1-SPD

Tot Ion: 65 Resp: 123592

Ion Ratio Lower Upper

65 100

67 45.8 0.0 92.0



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

60000

50000

40000

30000

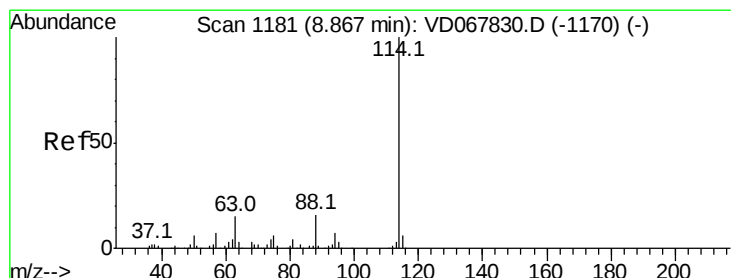
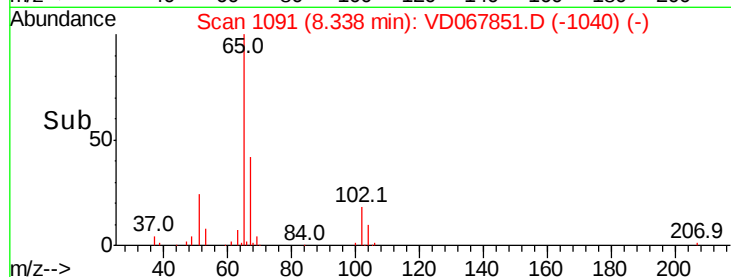
20000

10000

0

8.25 8.30 8.35 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067851.D

Acq: 02 Dec 2020 22:19

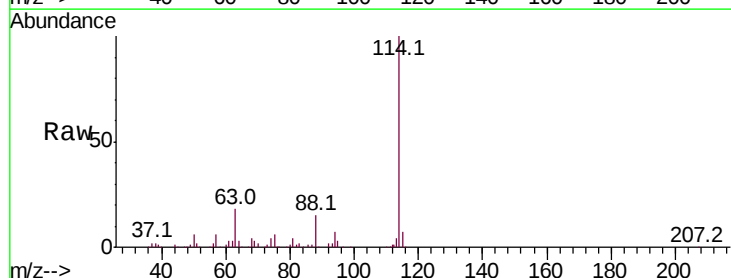
Tgt Ion: 114 Resp: 338307

Ion Ratio Lower Upper

114 100

63 18.3 0.0 30.8

88 15.1 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

200000

150000

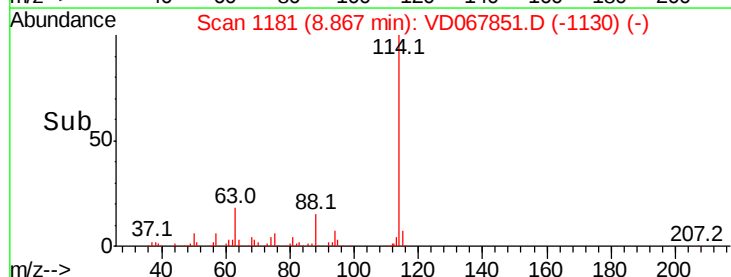
100000

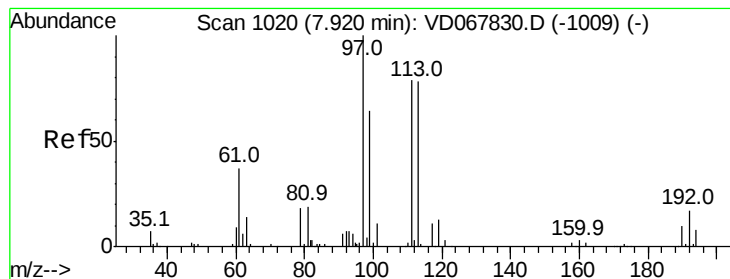
50000

0

8.80 8.90

Time-->





#35

Dibromofluoromethane

Concen: 45.997 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD067851.D

Acq: 02 Dec 2020 22:19

Instrument :

MSVOA_D

ClientSampleId :

SK-12-1-SPD

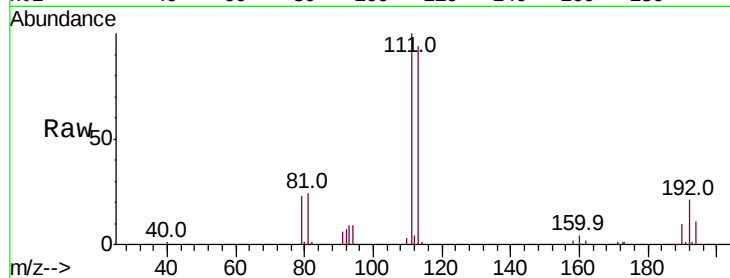
Tot Ion:113 Resp: 104126

Ion Ratio Lower Upper

113 100

111 102.8 81.2 121.8

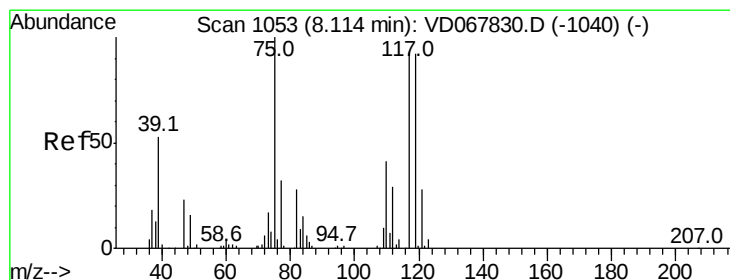
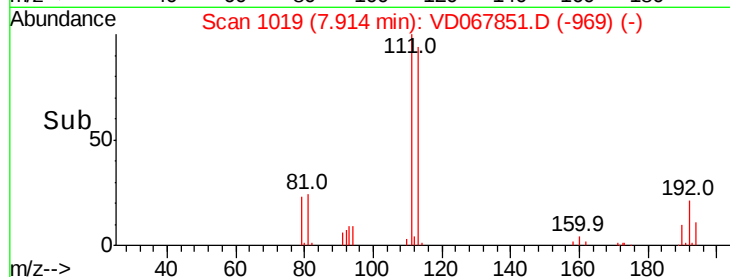
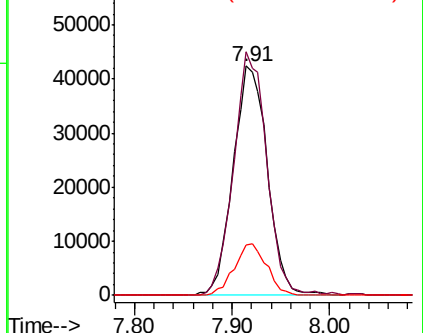
192 21.2 16.8 25.2



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: 5.506 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067851.D

Acq: 02 Dec 2020 22:19

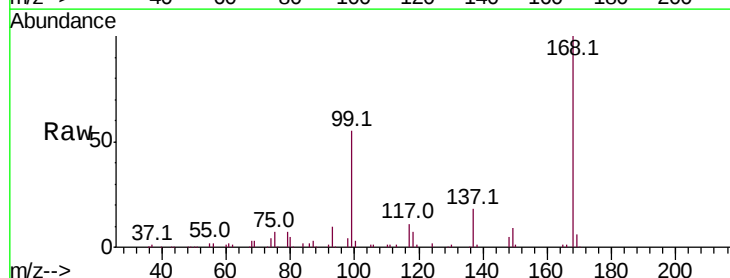
Tgt Ion: 75 Resp: 16126

Ion Ratio Lower Upper

75 100

110 13.3 20.3 61.0#

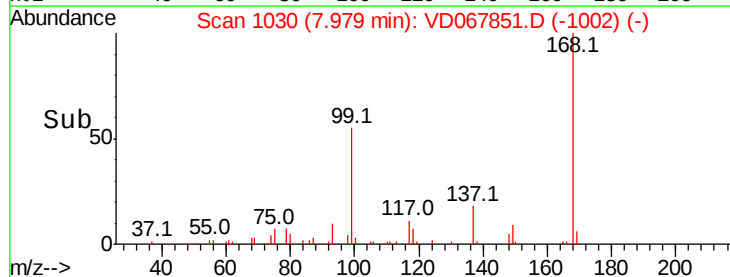
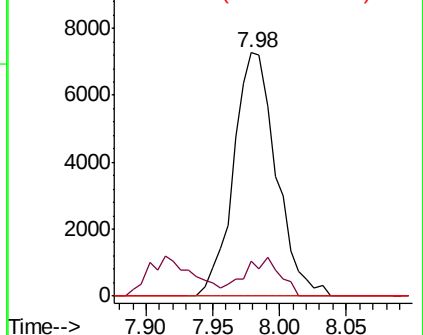
77 0.0 24.7 37.1#

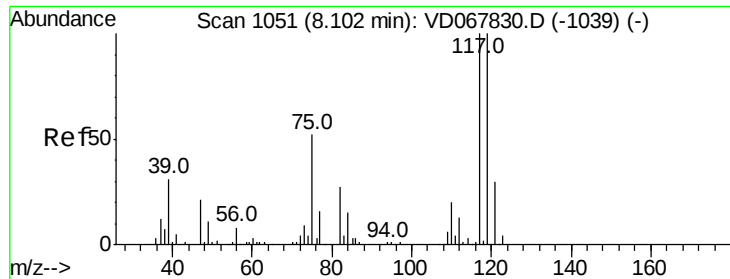


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.577 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067851.D

Acq: 02 Dec 2020 22:19

Instrument :

MSVOA_D

ClientSampleId :

SK-12-1-SPD

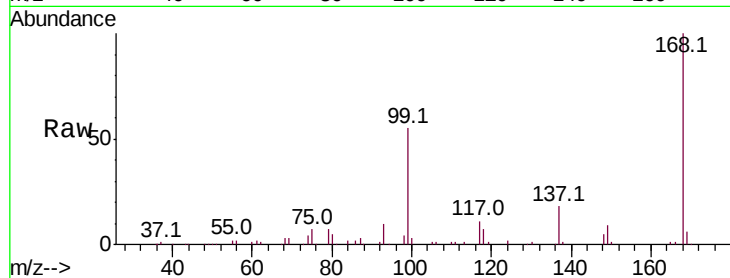
Tot Ion:117 Resp: 24711

Ion Ratio Lower Upper

117 100

119 6.9 79.7 119.5#

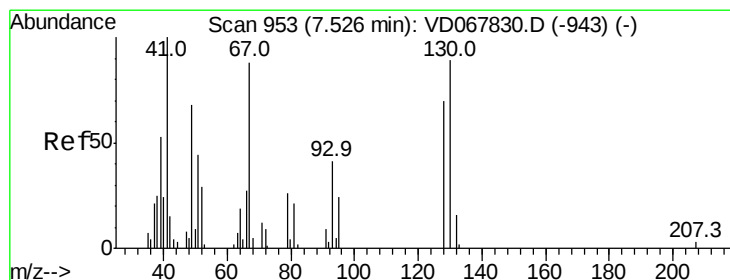
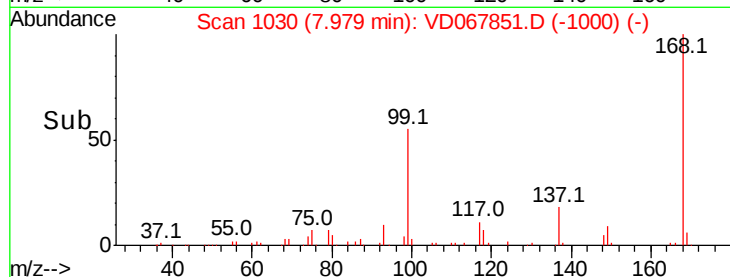
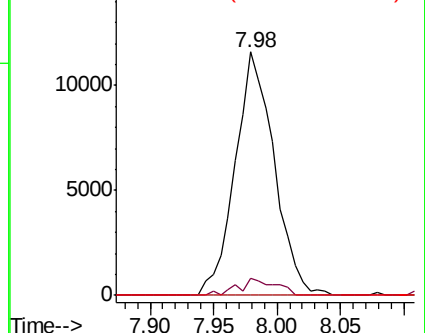
121 0.0 23.8 35.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: Below Cal

RT: 7.57 min Scan# 961

Delta R.T. 0.05 min

Lab File: VD067851.D

Acq: 02 Dec 2020 22:19

Tgt Ion: 41 Resp: 233

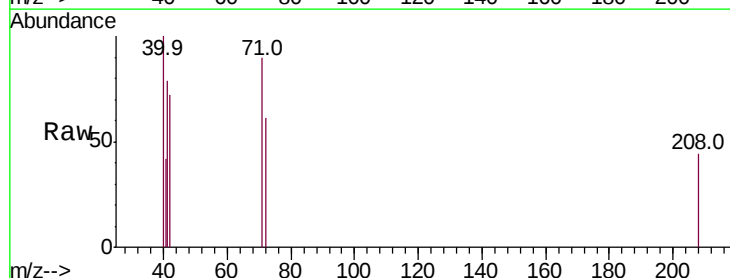
Ion Ratio Lower Upper

41 100

39 0.0 42.1 63.1#

67 0.0 82.4 123.6#

52 0.0 30.6 45.8#

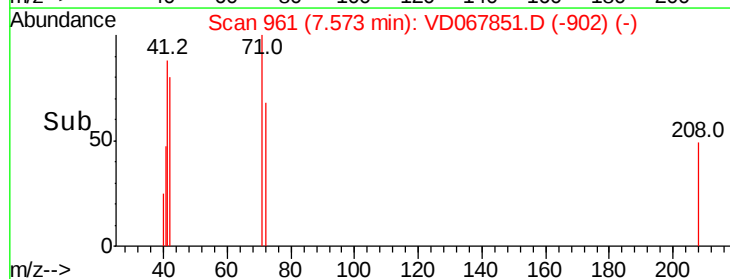
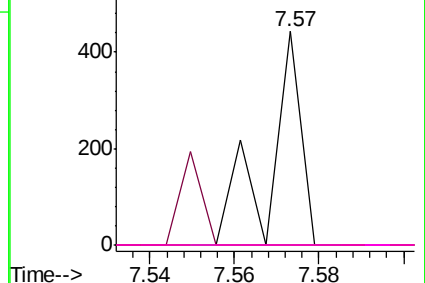


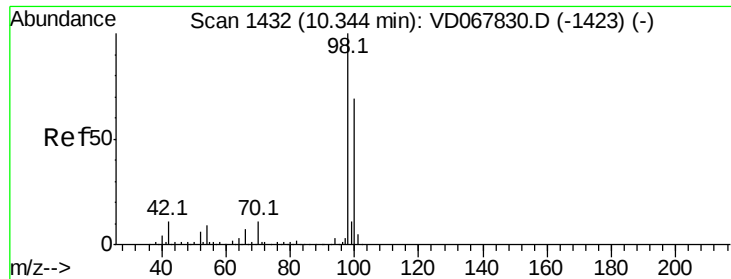
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V

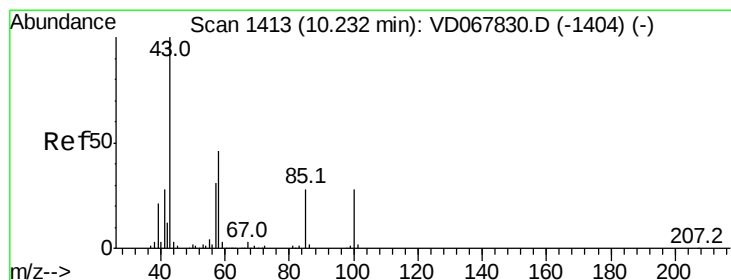
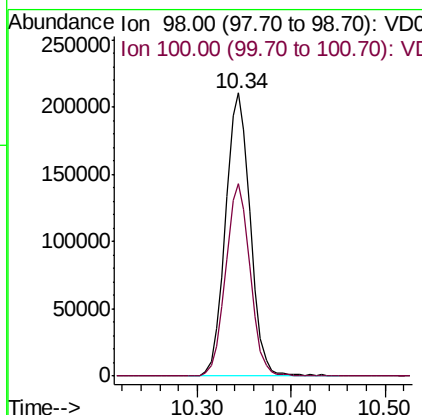
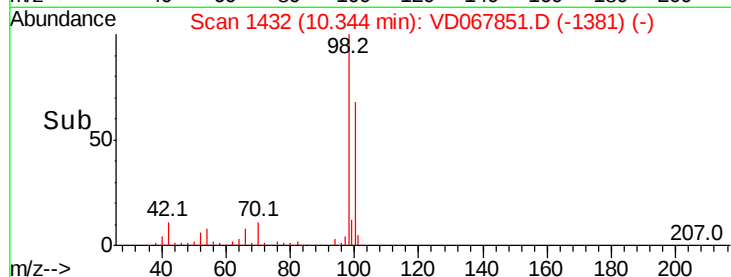
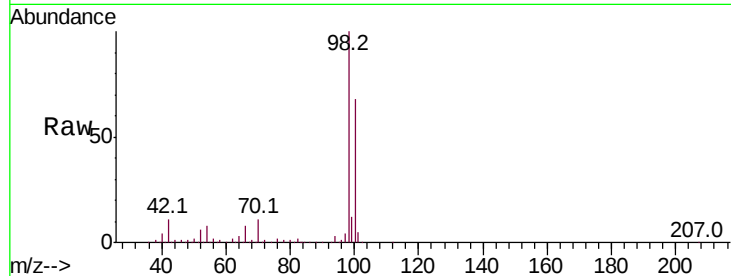




#50
Toluene-d8
Concen: 46.998 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067851.D
Acq: 02 Dec 2020 22:19

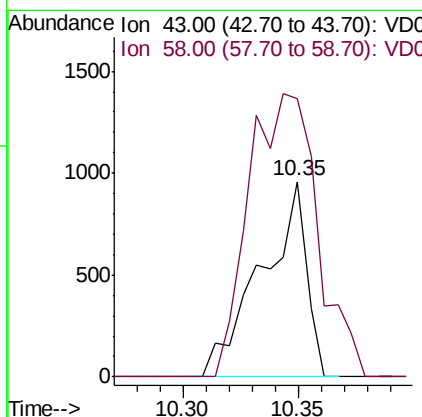
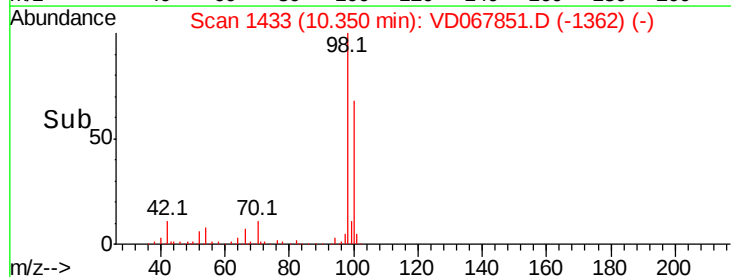
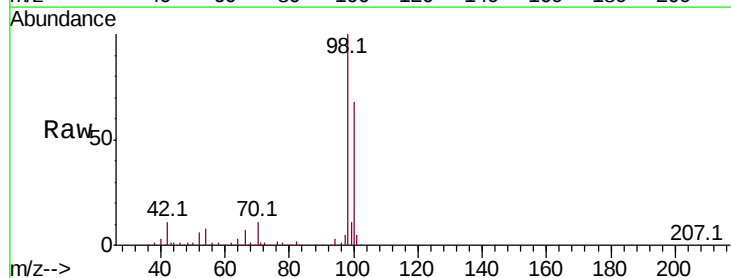
Instrument :
MSVOA_D
ClientSampleId :
SK-12-1-SPD

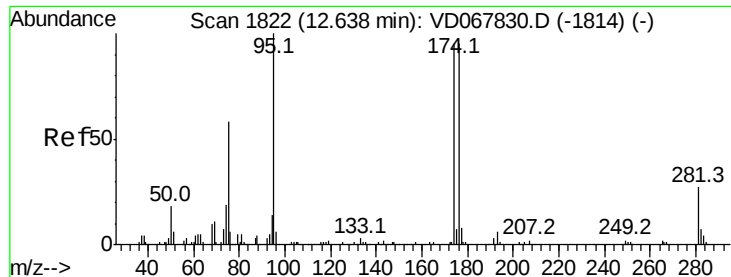
Tot Ion: 98 Resp: 382996
Ion Ratio Lower Upper
98 100
100 67.2 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 1.771 ug/l
RT: 10.35 min Scan# 1433
Delta R.T. 0.12 min
Lab File: VD067851.D
Acq: 02 Dec 2020 22:19

Tgt Ion: 43 Resp: 1302
Ion Ratio Lower Upper
43 100
58 221.0 35.7 53.5#





#62

4-Bromofluorobenzene

Concen: 42.972 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067851.D

Acq: 02 Dec 2020 22:19

Instrument :

MSVOA_D

ClientSampleId :

SK-12-1-SPD

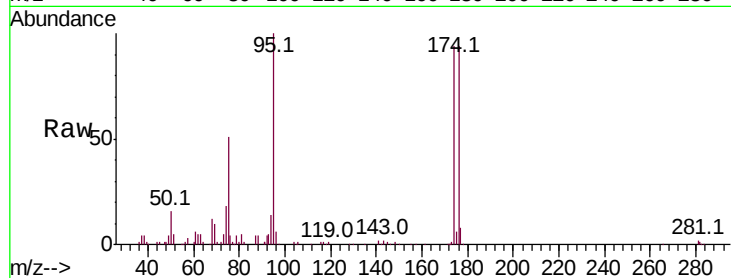
Tot Ion: 95 Resp: 121069

Ion Ratio Lower Upper

95 100

174 94.0 0.0 186.0

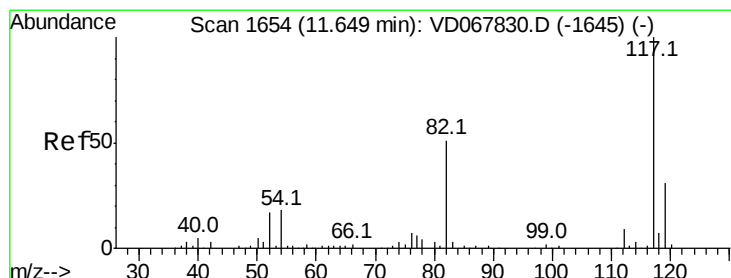
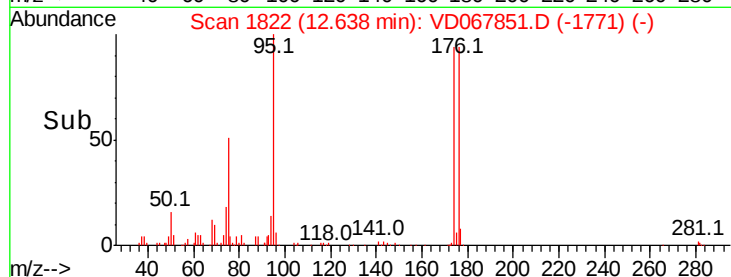
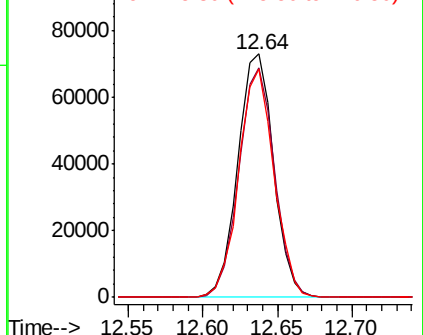
176 92.2 0.0 184.2



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: VD067851.D

Acq: 02 Dec 2020 22:19

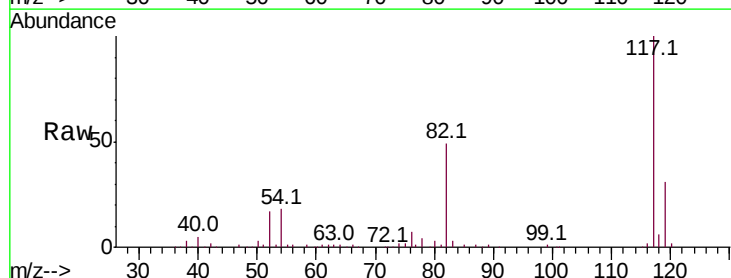
Tgt Ion: 117 Resp: 301008

Ion Ratio Lower Upper

117 100

82 49.3 40.6 60.8

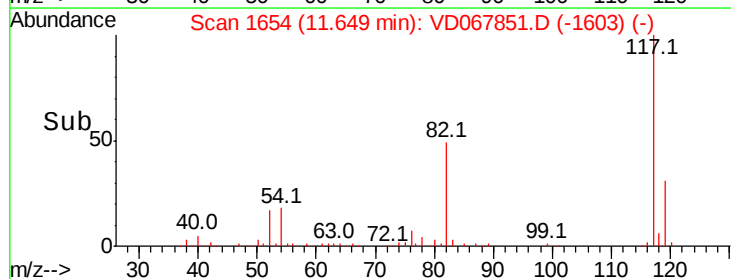
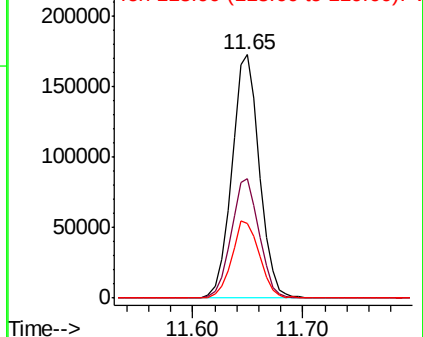
119 30.6 25.1 37.7

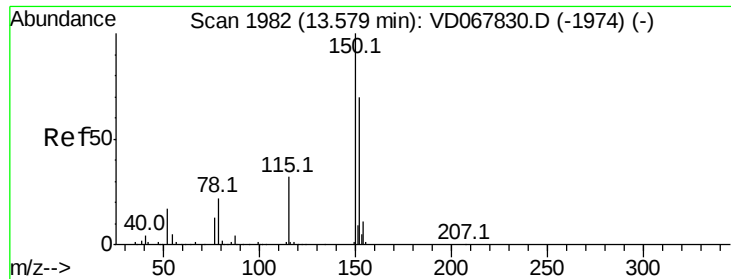


Abundance Ion 116.90 (116.60 to 117.60): V

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: VD067851.D

Acq: 02 Dec 2020 22:19

Instrument :

MSVOA_D

ClientSampleId :

SK-12-1-SPD

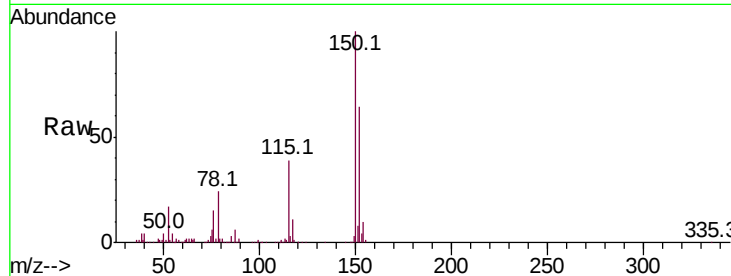
Tot Ion:152 Resp: 139486

Ion Ratio Lower Upper

152 100

115 58.5 29.1 87.4

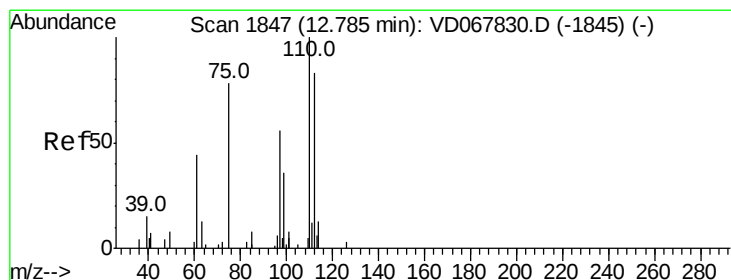
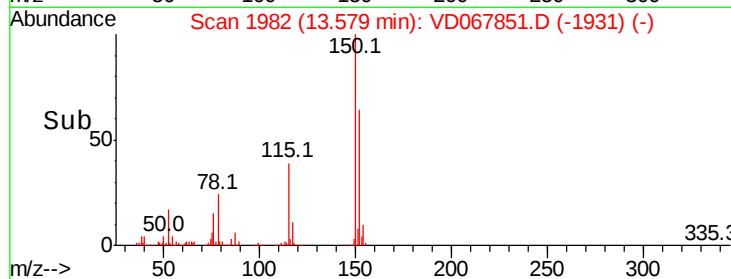
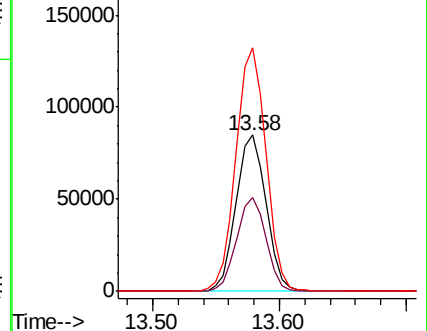
150 155.2 0.0 339.0



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



#76

1,2,3-Trichloropropane

Concen: 62.961 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD067851.D

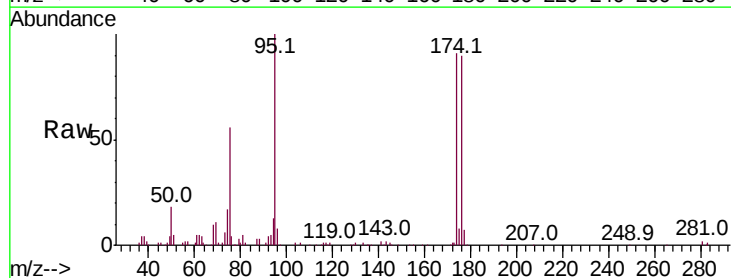
Acq: 02 Dec 2020 22:19

Tgt Ion: 75 Resp: 63954

Ion Ratio Lower Upper

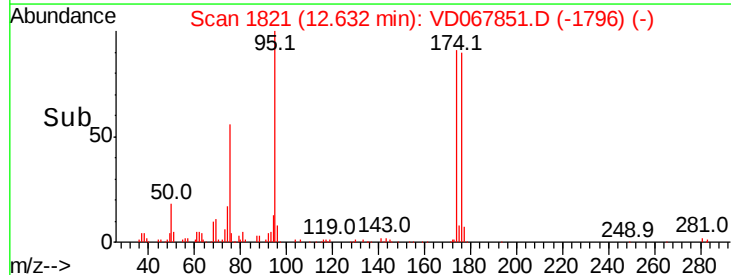
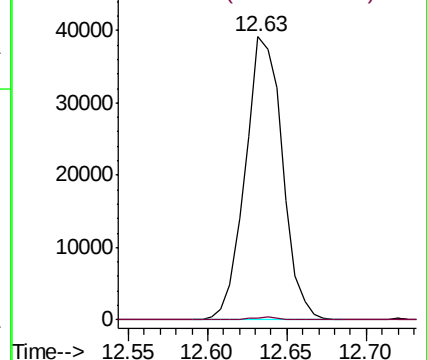
75 100

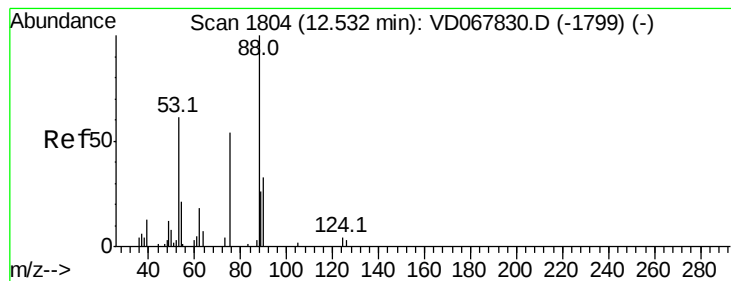
77 0.8 175.9 527.7#



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: 150.607 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD067851.D

Acq: 02 Dec 2020 22:19

Instrument :

MSVOA_D

ClientSampleId :

SK-12-1-SPD

Tot Ion: 75 Resp: 63954

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

89 0.0 41.0 61.6#

