

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD103020\
 Data File : VD067480.D
 Acq On : 30 Oct 2020 18:54
 Operator : VA/SY
 Sample : L4227-07
 Misc : 5.81G/5.00ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BU-02-102820

Quant Time: Oct 31 07:28:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	309707	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	501023	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	494156	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	240483	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	164009	52.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.72%	
35) Dibromofluoromethane	7.93	113	165747	49.71	ug/l	0.01
Spiked Amount	50.000		Recovery	=	99.42%	
50) Toluene-d8	10.34	98	594205	49.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.48%	
62) 4-Bromofluorobenzene	12.64	95	225582	53.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.52%	

Target Compounds

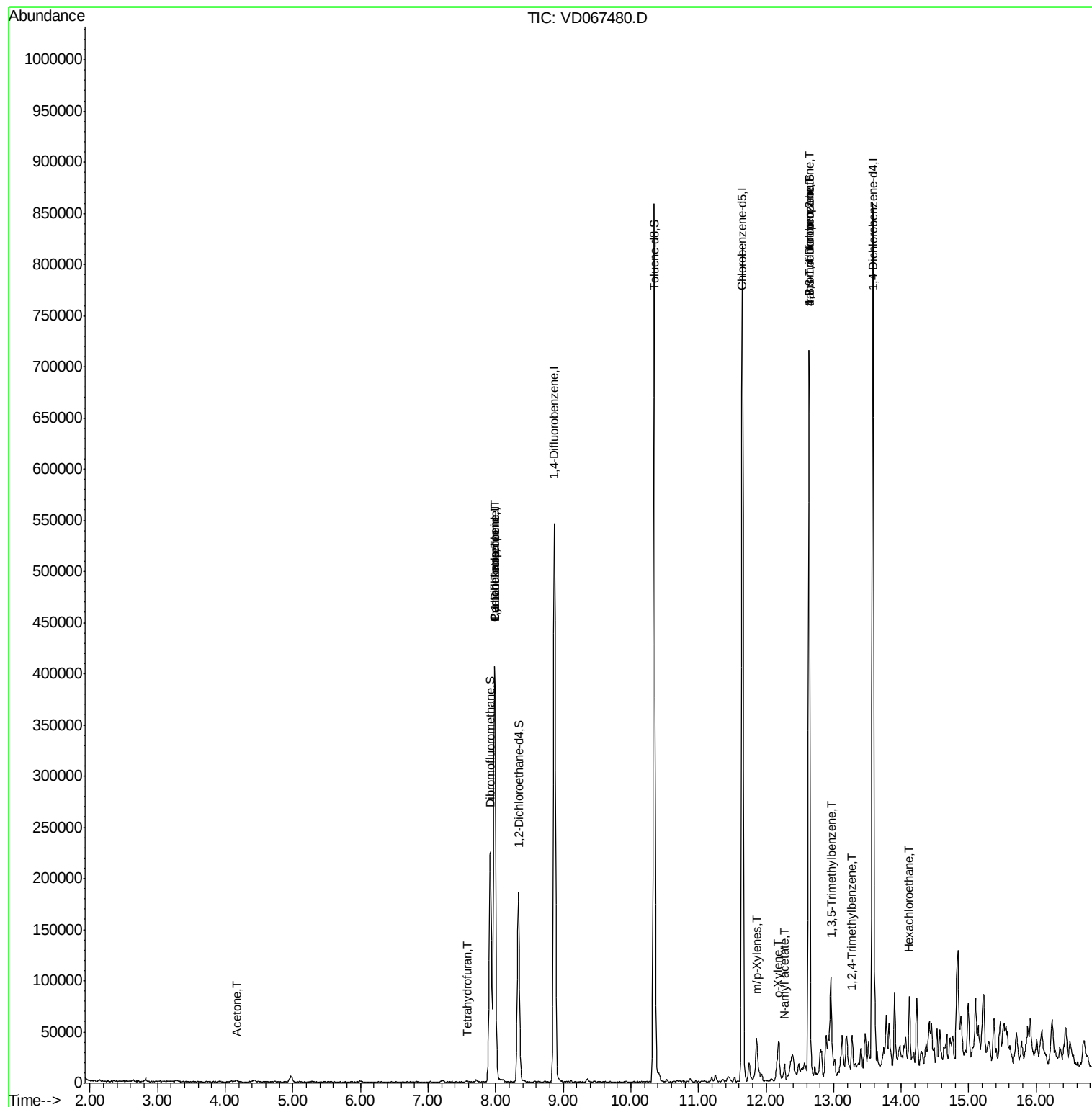
					Qvalue
2) Dichlorodifluoromethane	2.00	85	506	Below Cal	98
5) Bromomethane	2.79	94	282	Below Cal	# 60
11) Tert butyl alcohol	5.19	59	59	Below Cal	# 81
16) Acetone	4.17	43	2859	6.579 ug/l	90
20) Methylene Chloride	4.96	84	1951	Below Cal	# 80
29) Tetrahydrofuran	7.58	42	944	3.428 ug/l	# 58
31) Cyclohexane	7.99	56	7141	1.998 ug/l	# 28
36) 1,1-Dichloropropene	7.98	75	21939	5.166 ug/l	# 49
38) Carbon Tetrachloride	7.98	117	31360	5.778 ug/l	# 17
68) m/p-Xylenes	11.86	106	7722	1.234 ug/l	95
69) o-Xylene	12.18	106	9892	1.708 ug/l	96
74) N-amyl acetate	12.27	43	3987	1.730 ug/l	# 52
76) 1,2,3-Trichloropropane	12.64	75	118404	71.038 ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.97	105	13640	1.028 ug/l	93
81) trans-1,4-Dichloro-2-buten	12.64	75	118404	161.093 ug/l	# 10
84) 1,2,4-Trimethylbenzene	13.27	105	18922	1.443 ug/l	97
90) Hexachloroethane	14.12	117	4334	1.712 ug/l	# 10

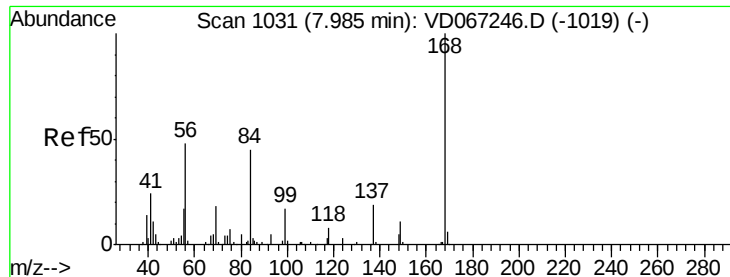
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD103020\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067480.D

Acq: 30 Oct 2020 18:54

Instrument :

MSVOA_D

ClientSampleId :

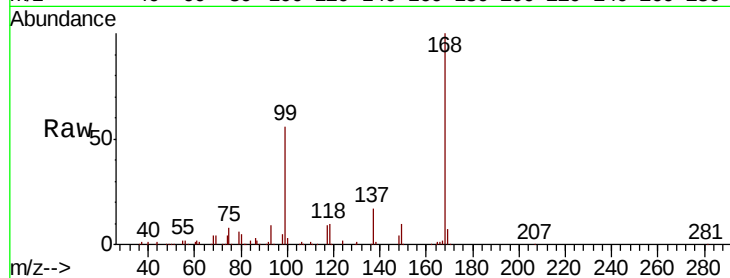
BU-02-102820

Tot Ion:168 Resp: 309707

Ion Ratio Lower Upper

168 100

99 56.0 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

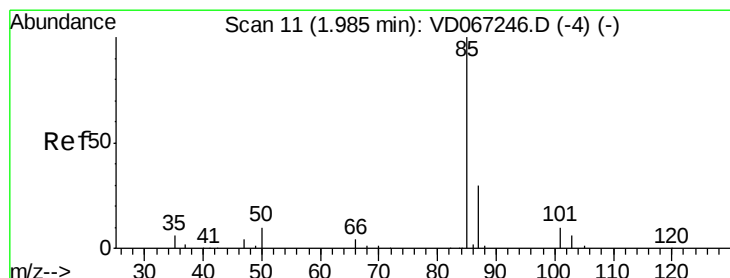
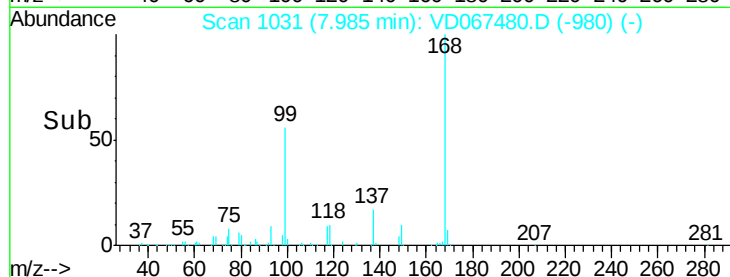
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 13

Delta R.T. 0.01 min

Lab File: VD067480.D

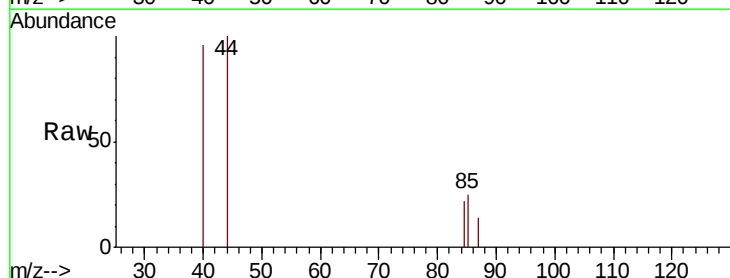
Acq: 30 Oct 2020 18:54

Tgt Ion: 85 Resp: 506

Ion Ratio Lower Upper

85 100

87 29.2 15.2 45.6



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

2.00

600

500

400

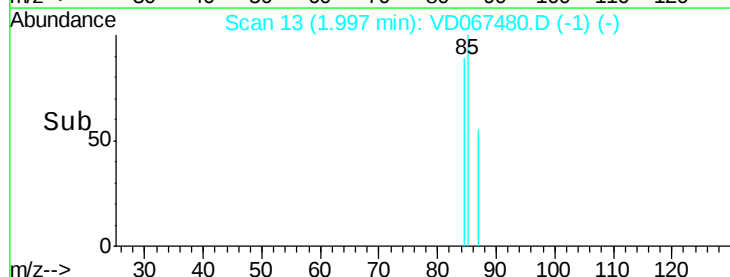
300

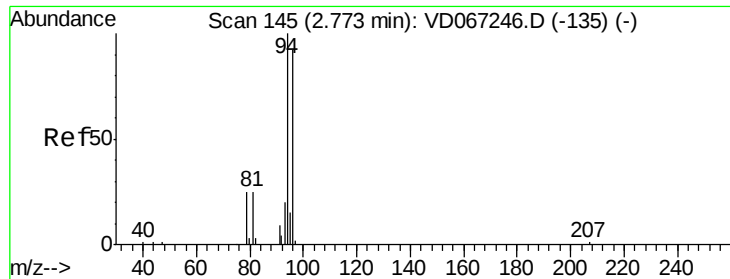
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067480.D

Acq: 30 Oct 2020 18:54

Instrument :

MSVOA_D

ClientSampleId :

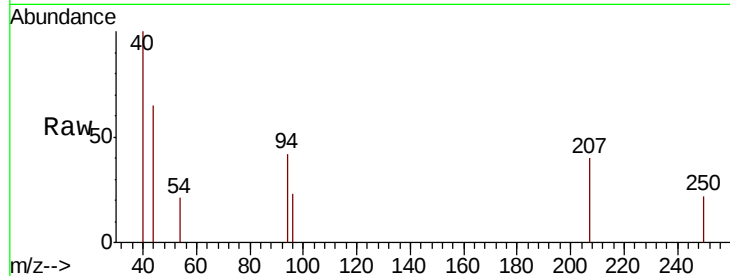
BU-02-102820

Tot Ion: 94 Resp: 282

Ion Ratio Lower Upper

94 100

96 54.2 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.79

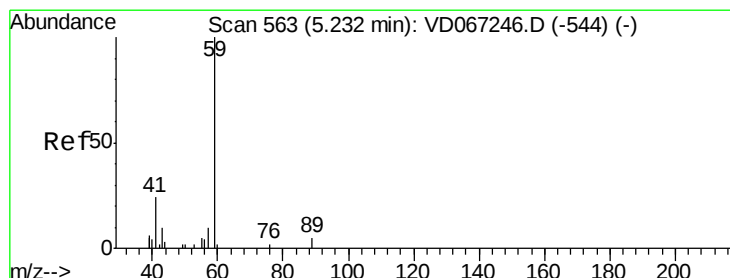
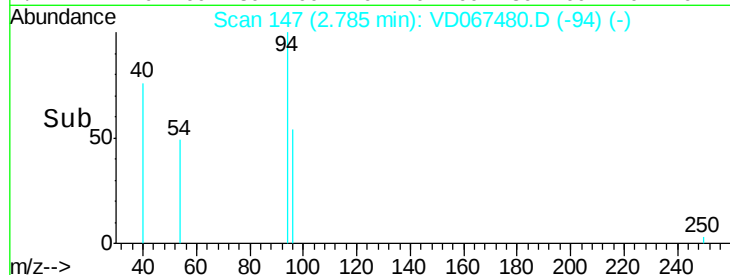
300

200

100

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.19 min Scan# 555

Delta R.T. -0.05 min

Lab File: VD067480.D

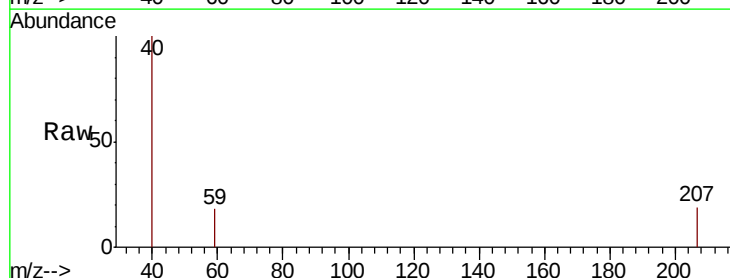
Acq: 30 Oct 2020 18:54

Tgt Ion: 59 Resp: 59

Ion Ratio Lower Upper

59 100

57 0.0 5.1 7.7#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.19

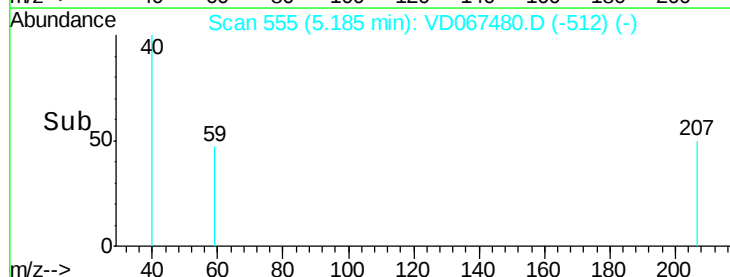
150

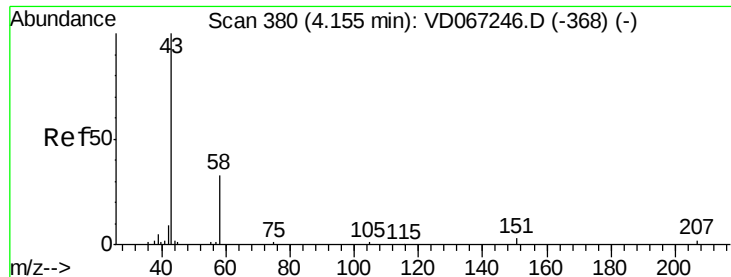
100

50

0

Time-->





#16

Acetone

Concen: 6.579 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.02 min

Lab File: VD067480.D

Acq: 30 Oct 2020 18:54

Instrument :

MSVOA_D

ClientSampleId :

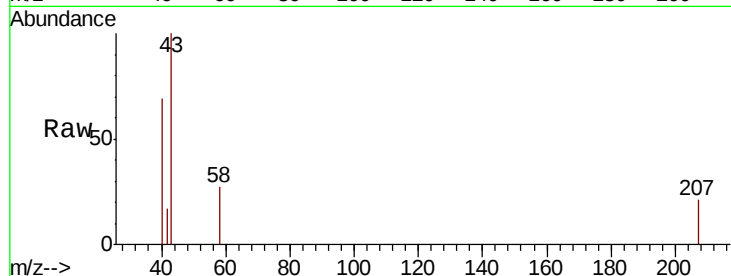
BU-02-102820

Tot Ion: 43 Resp: 2859

Ion Ratio Lower Upper

43 100

58 27.1 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

1200

1000

800

600

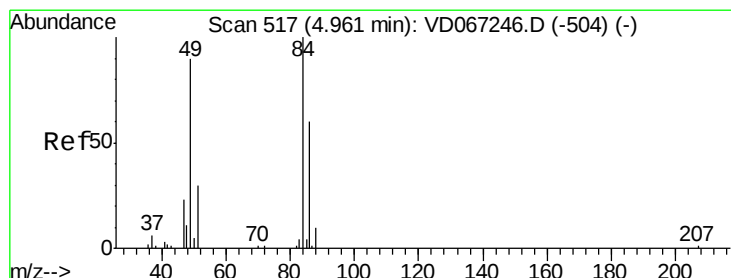
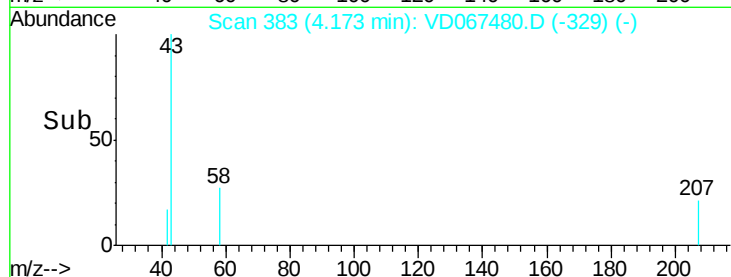
400

200

0

4.10 4.15 4.20 4.25

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD067480.D

Acq: 30 Oct 2020 18:54

Tgt Ion: 84 Resp: 1951

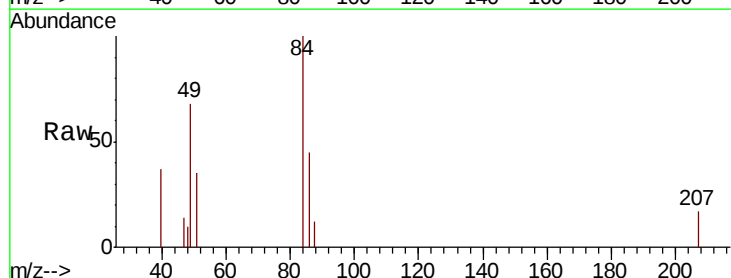
Ion Ratio Lower Upper

84 100

49 67.6 72.2 108.2#

51 34.9 23.8 35.8

86 44.9 48.2 72.4#



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

3000

2500

2000

1500

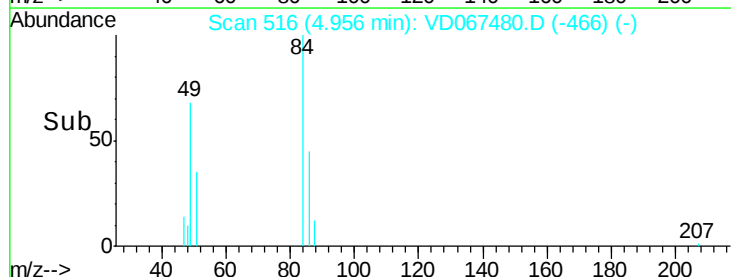
1000

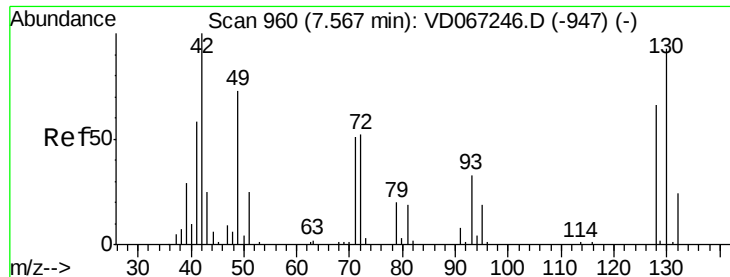
500

0

4.90 4.92 4.94 4.96

Time-->

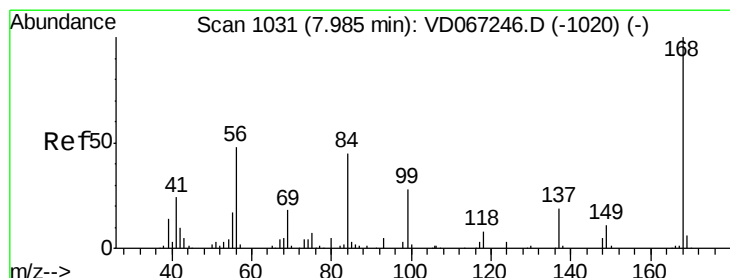
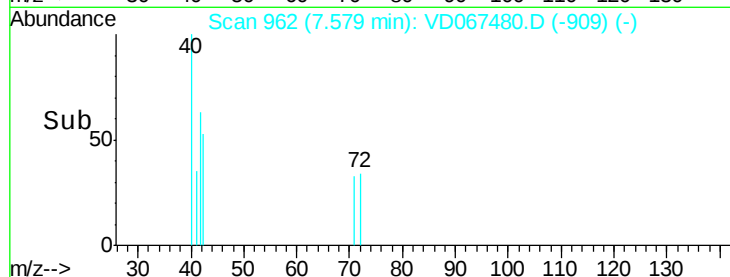
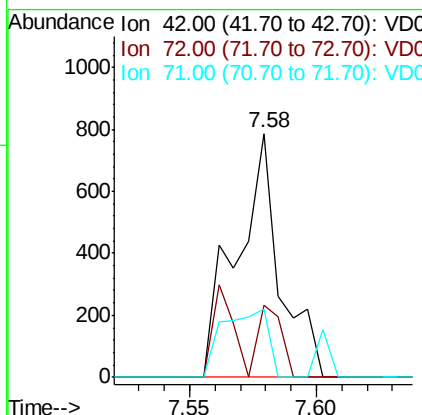
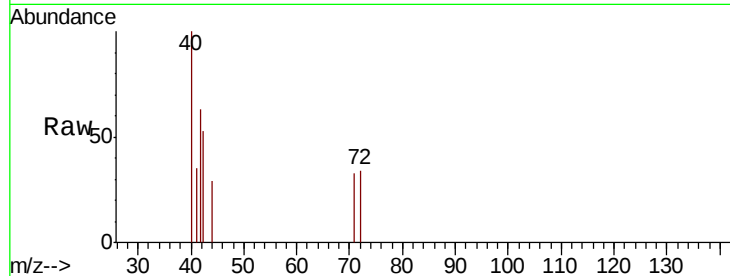




#29
Tetrahydrofuran
Concen: 3.428 ug/l
RT: 7.58 min Scan# 962
Delta R.T. 0.01 min
Lab File: VD067480.D
Acq: 30 Oct 2020 18:54

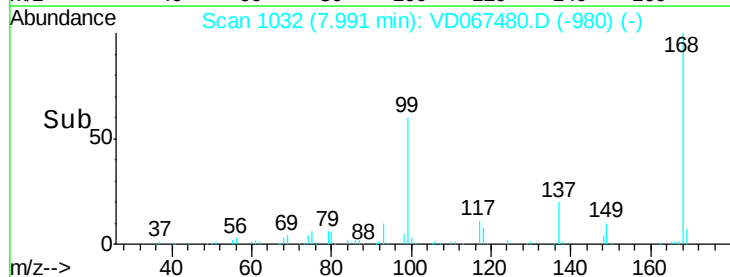
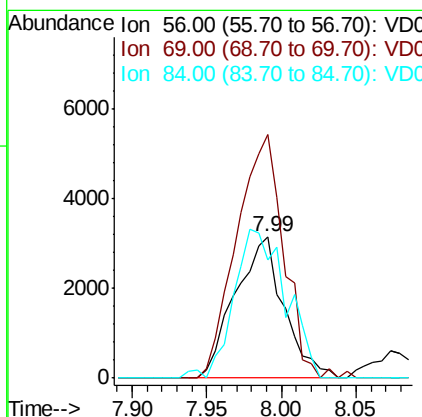
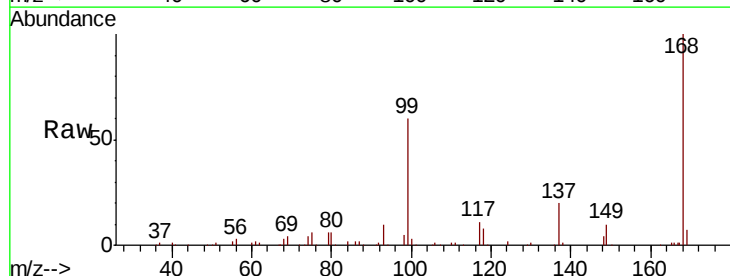
Instrument :
MSVOA_D
ClientSampleId :
BU-02-102820

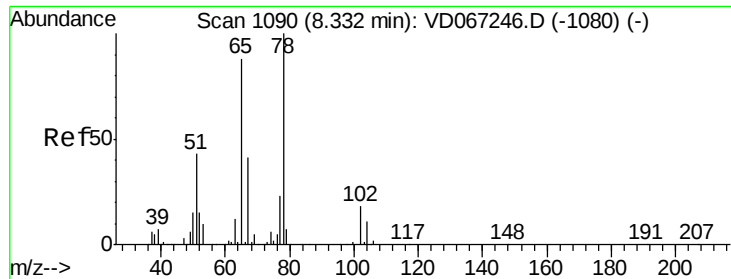
Tot Ion: 42 Resp: 944
Ion Ratio Lower Upper
42 100
72 15.9 43.2 64.8#
71 29.0 39.4 59.0#



#31
Cyclohexane
Concen: 1.998 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD067480.D
Acq: 30 Oct 2020 18:54

Tgt Ion: 56 Resp: 7141
Ion Ratio Lower Upper
56 100
69 172.0 29.8 44.6#
84 83.9 76.6 114.8

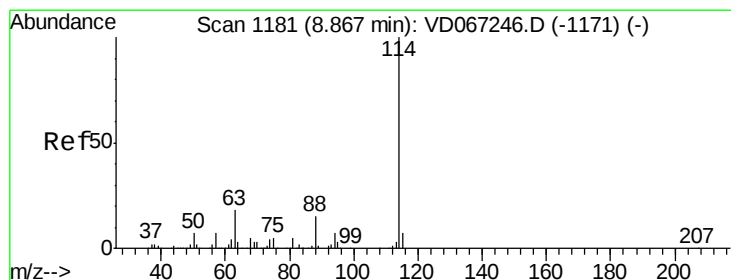
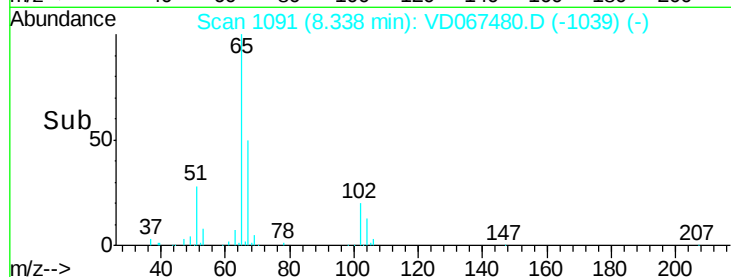
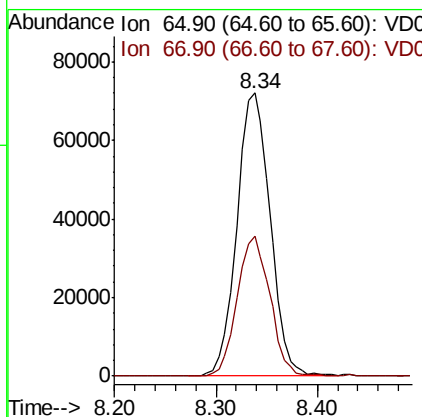
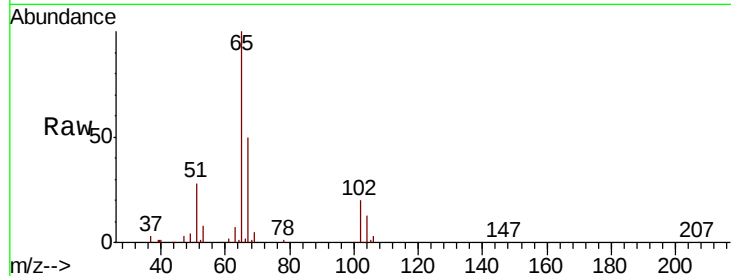




#33
 1,2-Dichloroethane-d4
 Concen: 52.858 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VD067480.D
 Acq: 30 Oct 2020 18:54

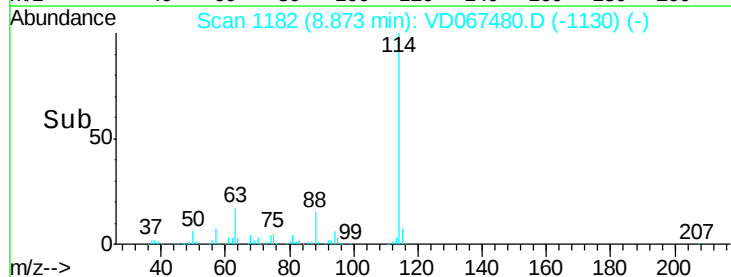
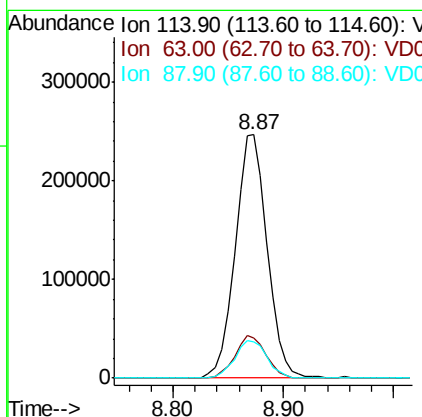
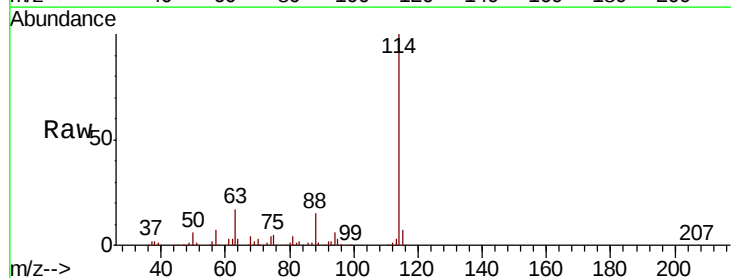
Instrument :
 MSVOA_D
 ClientSampleId :
 BU-02-102820

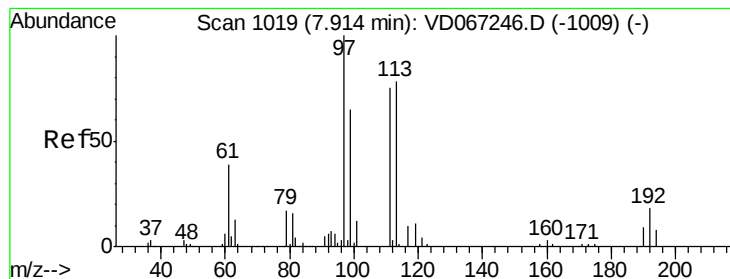
Tot Ion: 65 Resp: 164009
 Ion Ratio Lower Upper
 65 100
 67 48.8 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1182
 Delta R.T. 0.01 min
 Lab File: VD067480.D
 Acq: 30 Oct 2020 18:54

Tgt Ion: 114 Resp: 501023
 Ion Ratio Lower Upper
 114 100
 63 16.7 0.0 35.0
 88 15.1 0.0 30.6





#35

Dibromofluoromethane

Concen: 49.709 ug/l

RT: 7.93 min Scan# 1021

Delta R.T. 0.01 min

Lab File: VD067480.D

Acq: 30 Oct 2020 18:54

Instrument :

MSVOA_D

ClientSampleId :

BU-02-102820

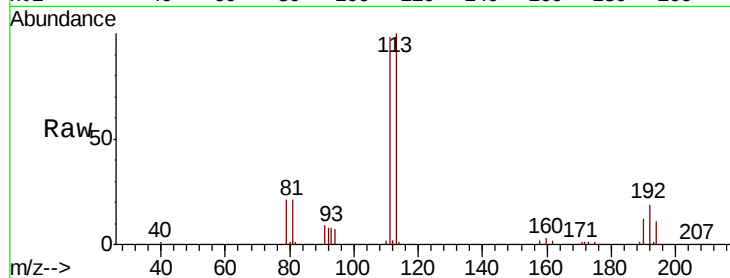
Tot Ion:113 Resp: 165747

Ion Ratio Lower Upper

113 100

111 98.9 81.6 122.4

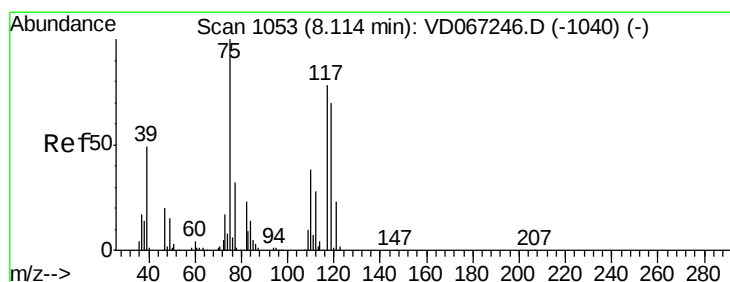
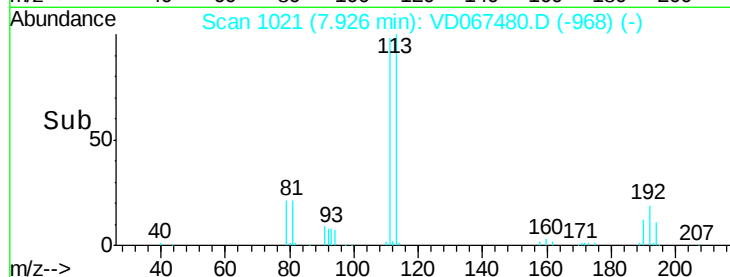
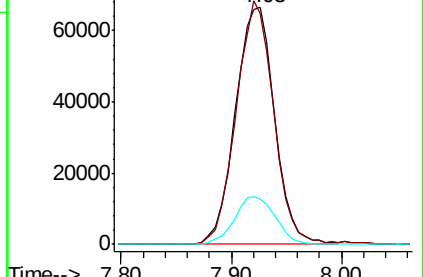
192 20.7 17.0 25.4



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: 5.166 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067480.D

Acq: 30 Oct 2020 18:54

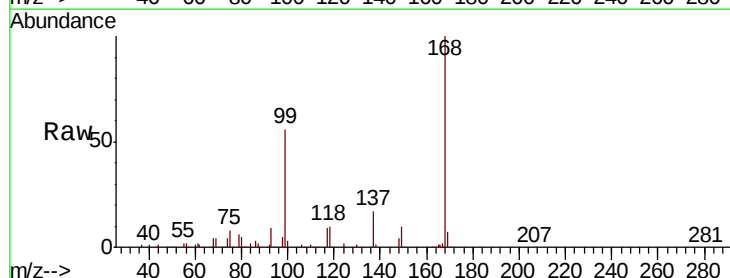
Tgt Ion: 75 Resp: 21939

Ion Ratio Lower Upper

75 100

110 10.0 19.6 58.7#

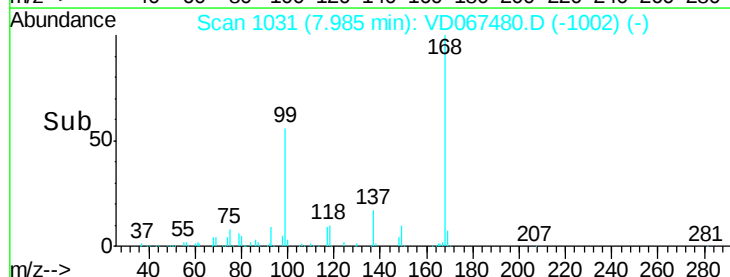
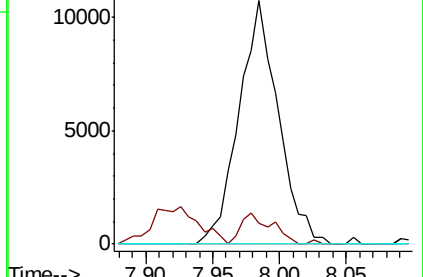
77 0.0 24.6 37.0#

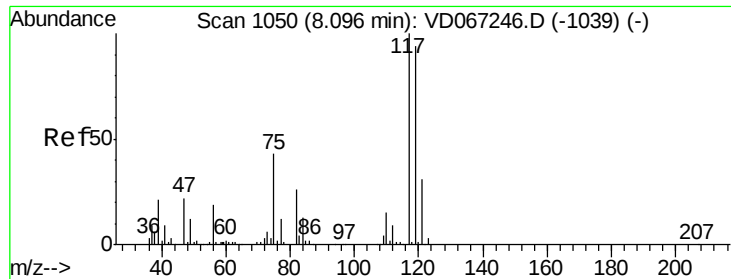


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

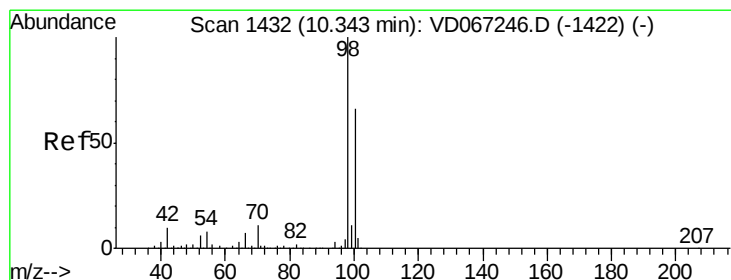
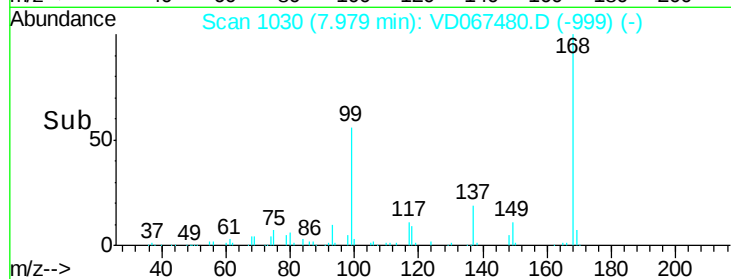
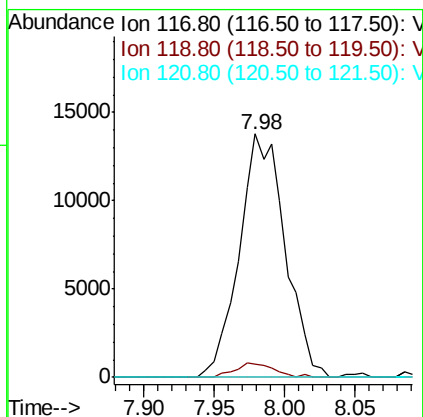
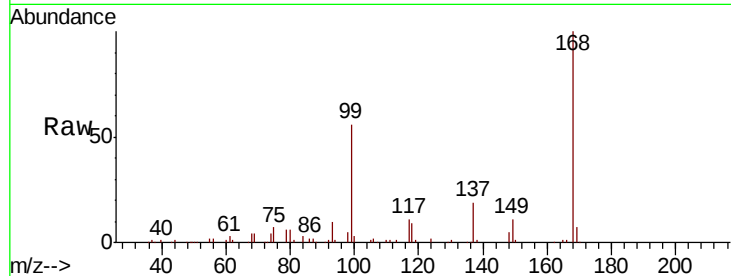




#38
Carbon Tetrachloride
Concen: 5.778 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD067480.D
Acq: 30 Oct 2020 18:54

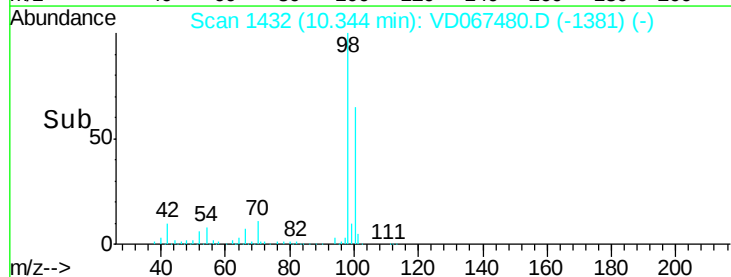
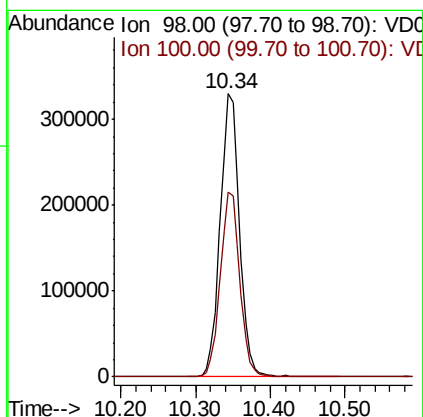
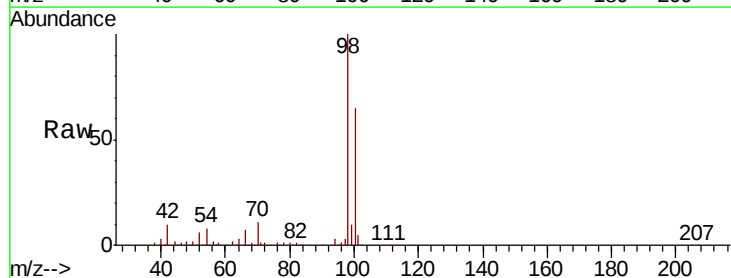
Instrument :
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BU-02-102820

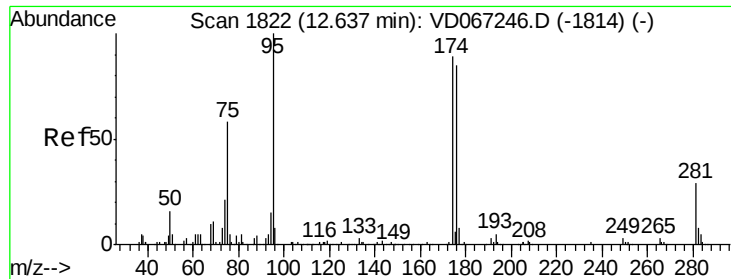
Tot Ion:117 Resp: 31360
Ion Ratio Lower Upper
117 100
119 5.4 75.0 112.4#
121 0.0 24.9 37.3#



#50
Toluene-d8
Concen: 49.244 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067480.D
Acq: 30 Oct 2020 18:54

Tgt Ion: 98 Resp: 594205
Ion Ratio Lower Upper
98 100
100 65.7 53.1 79.7

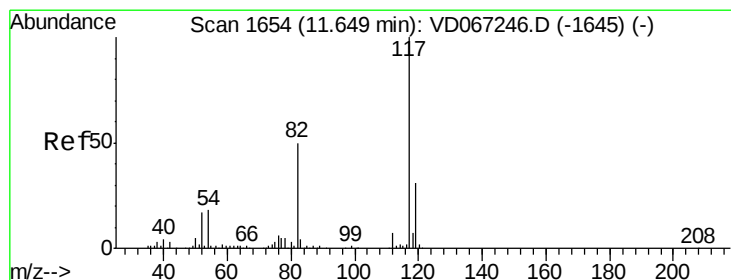
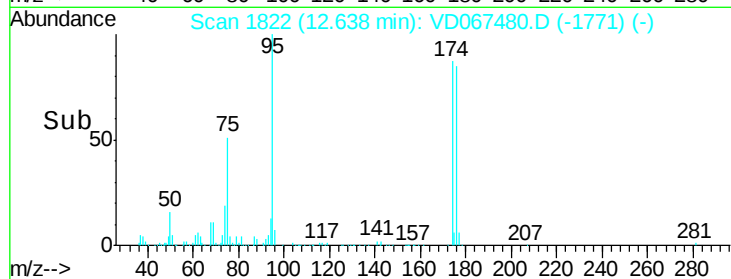
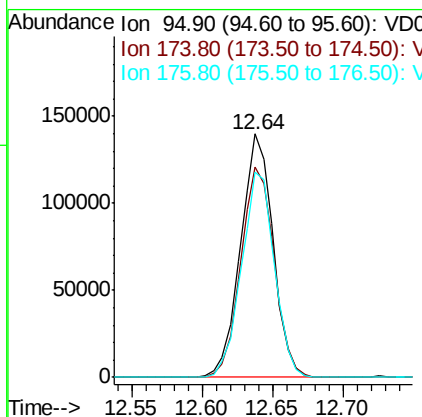
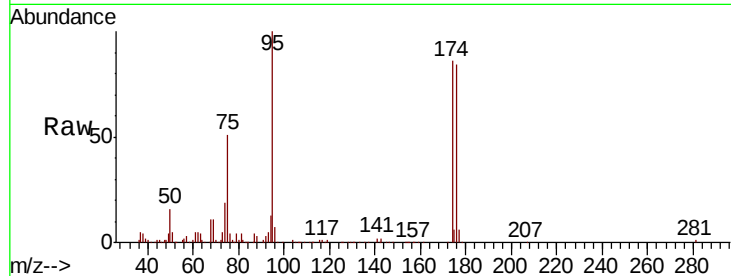




#62
4-Bromofluorobenzene
Concen: 53.764 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD067480.D
Acq: 30 Oct 2020 18:54

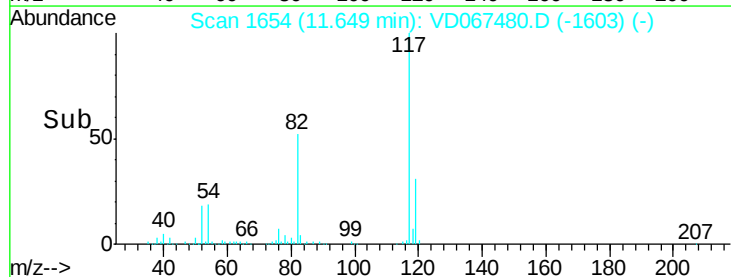
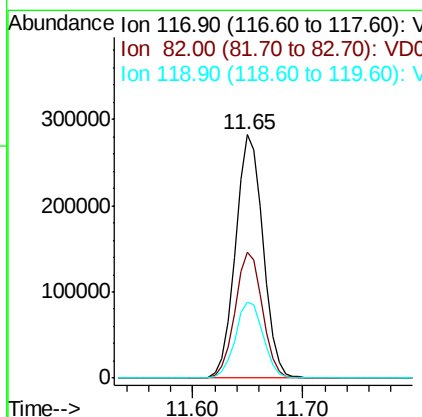
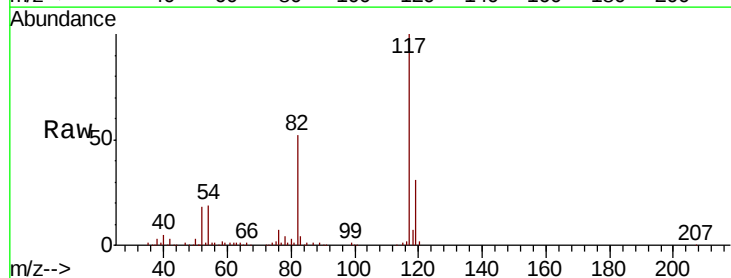
Instrument :
MSVOA_D
ClientSampleId :
BU-02-102820

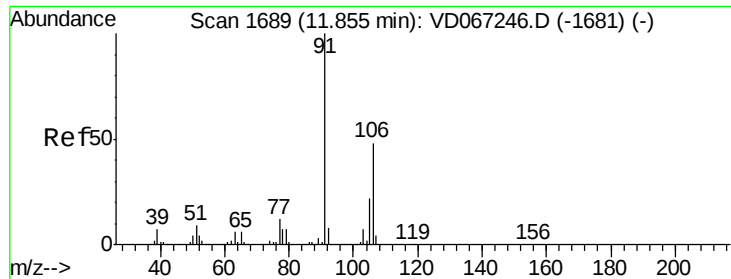
Tot Ion	Ratio	Lower	Upper
95	100		
174	88.6	0.0	175.2
176	85.3	0.0	168.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067480.D
Acq: 30 Oct 2020 18:54

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.6	39.9	59.9
119	31.2	24.9	37.3

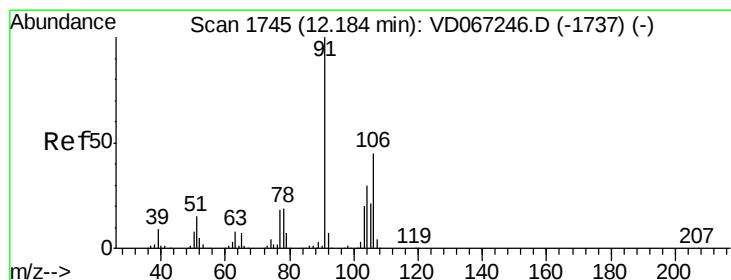
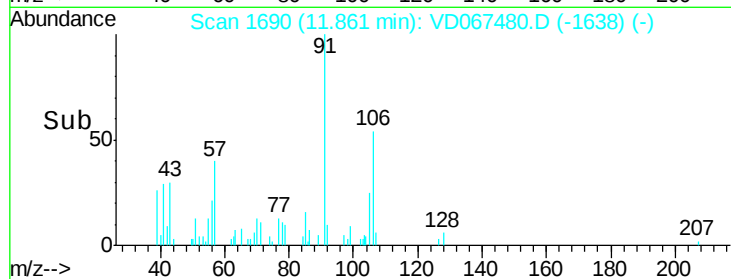
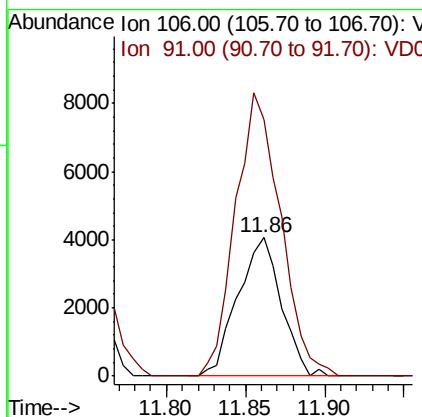
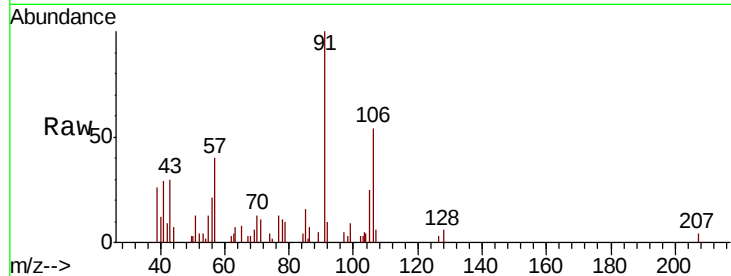




#68
m/p-Xylenes
Concen: 1.234 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VD067480.D
Acq: 30 Oct 2020 18:54

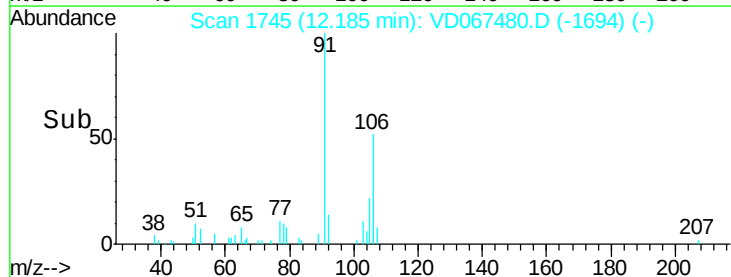
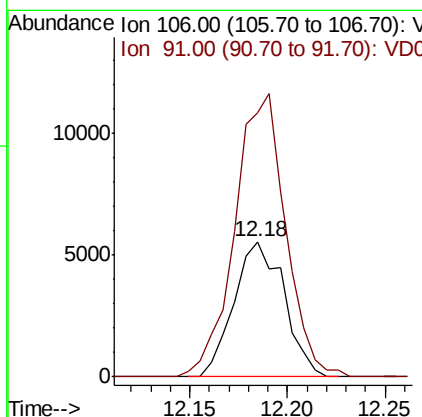
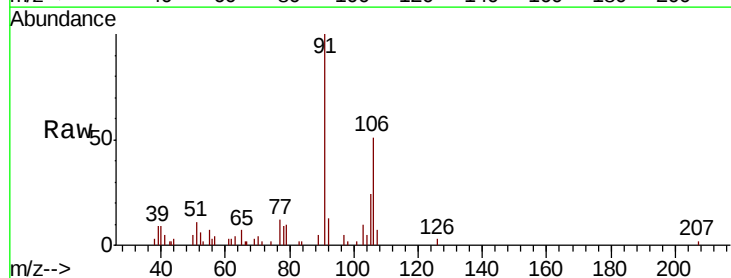
Instrument :
MSVOA_D
ClientSampleId :
BU-02-102820

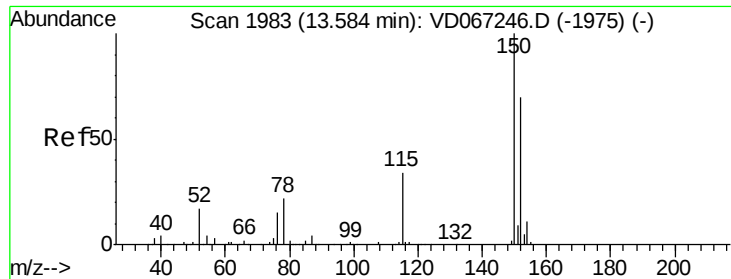
Tot Ion:106 Resp: 7722
Ion Ratio Lower Upper
106 100
91 212.5 163.8 245.8



#69
o-Xylene
Concen: 1.708 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD067480.D
Acq: 30 Oct 2020 18:54

Tgt Ion:106 Resp: 9892
Ion Ratio Lower Upper
106 100
91 211.3 109.1 327.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD067480.D

Acq: 30 Oct 2020 18:54

Instrument :

MSVOA_D

ClientSampleId :

BU-02-102820

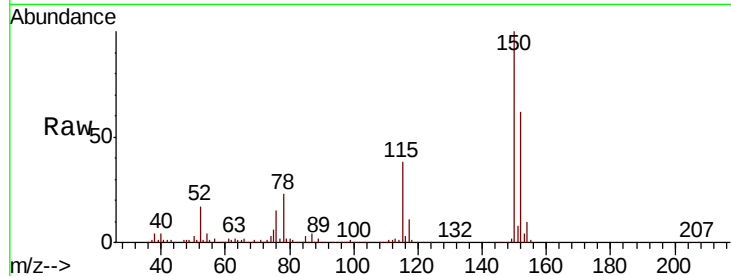
Tot Ion:152 Resp: 240483

Ion Ratio Lower Upper

152 100

115 61.3 29.3 87.9

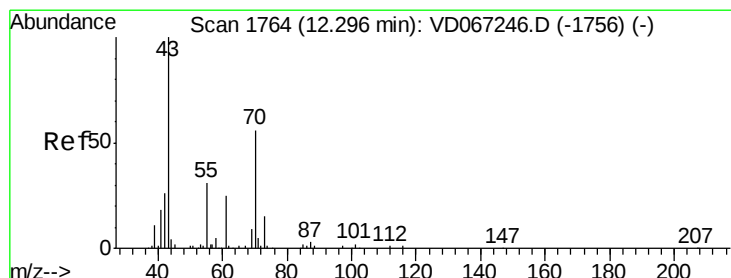
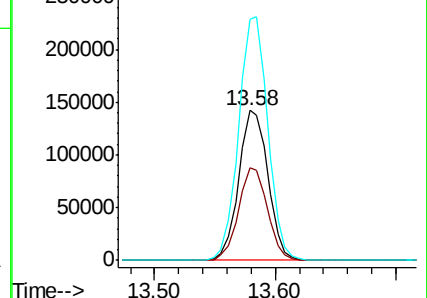
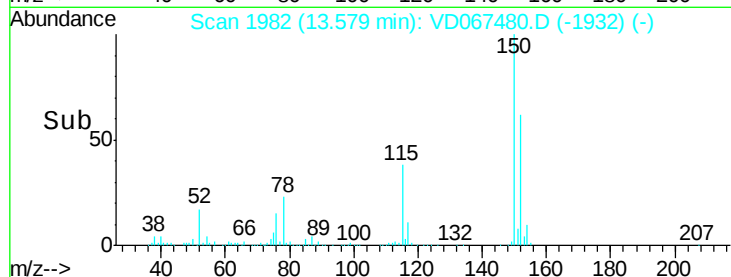
150 161.2 0.0 339.0



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



#74

N-ethyl acetate

Concen: 1.730 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD067480.D

Acq: 30 Oct 2020 18:54

Tgt Ion: 43 Resp: 3987

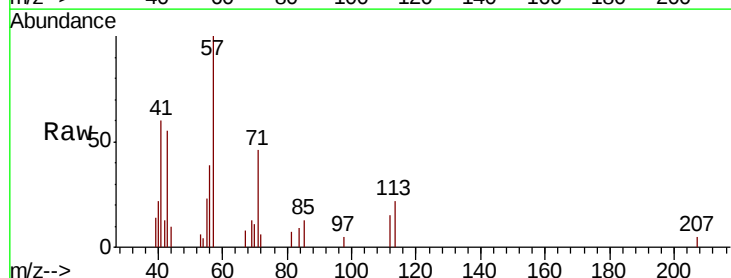
Ion Ratio Lower Upper

43 100

70 11.7 42.7 64.1#

55 17.6 24.0 36.0#

61 0.0 22.2 33.4#

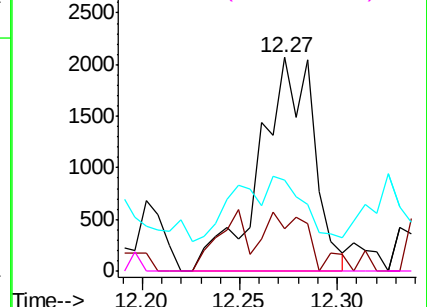
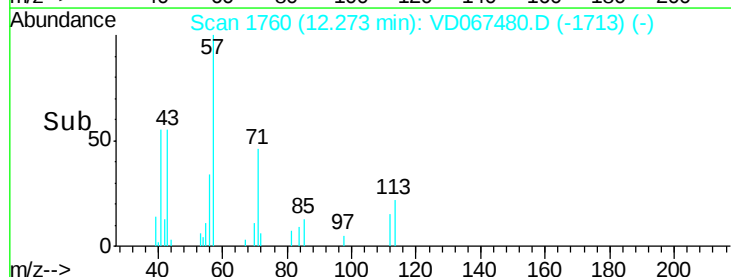


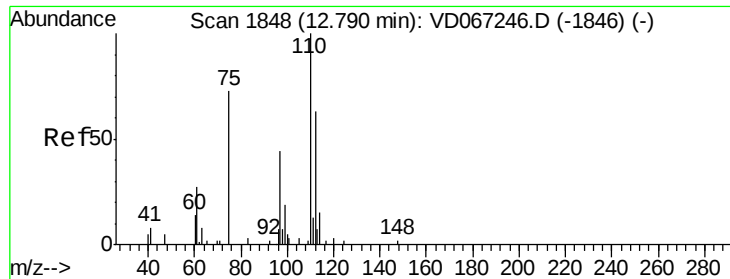
Abundance Ion 43.00 (42.70 to 43.70): VDC

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: 71.038 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067480.D

Acq: 30 Oct 2020 18:54

Instrument :

MSVOA_D

ClientSampleId :

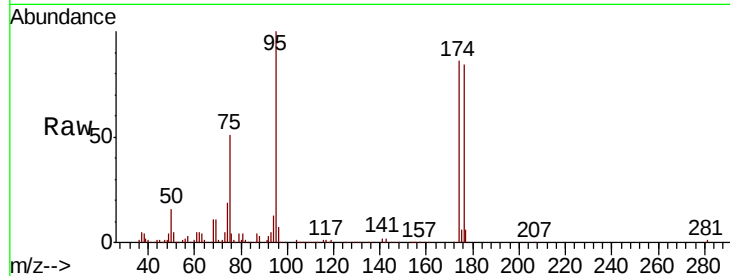
BU-02-102820

Tot Ion: 75 Resp: 118404

Ion Ratio Lower Upper

75 100

77 1.3 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

80000

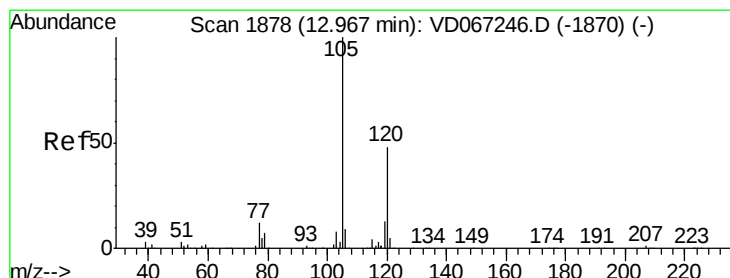
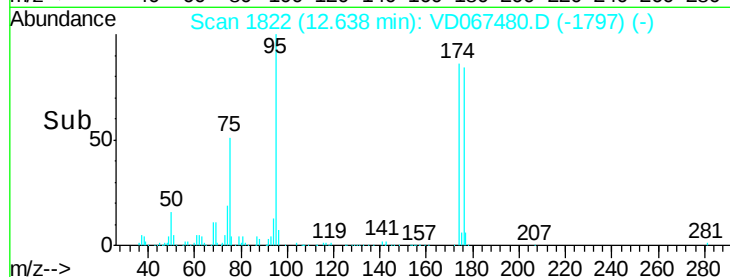
60000

40000

20000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 1.028 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD067480.D

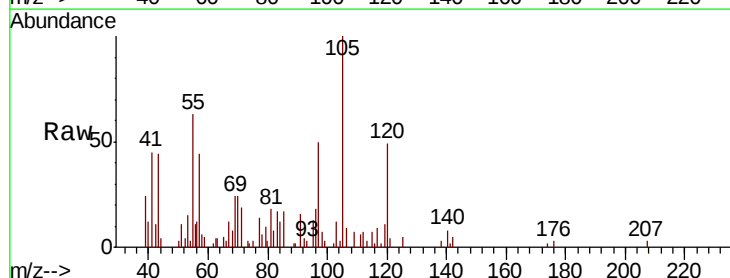
Acq: 30 Oct 2020 18:54

Tgt Ion:105 Resp: 13640

Ion Ratio Lower Upper

105 100

120 53.5 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

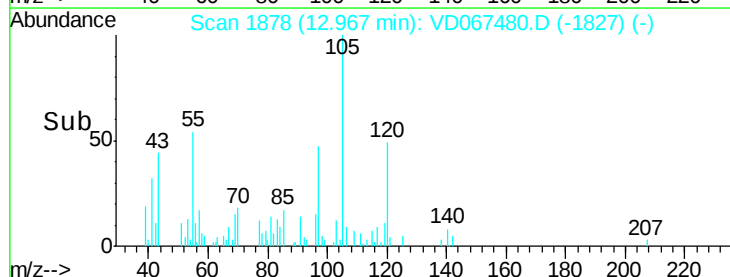
12.97

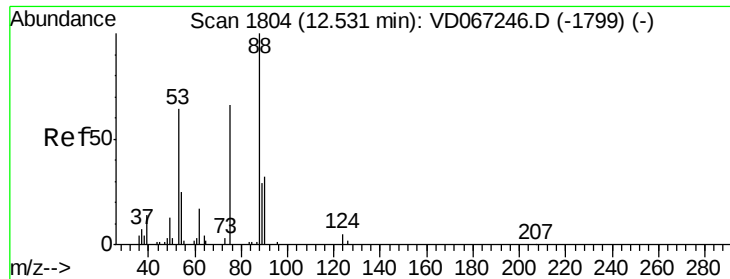
10000

5000

0

Time-->

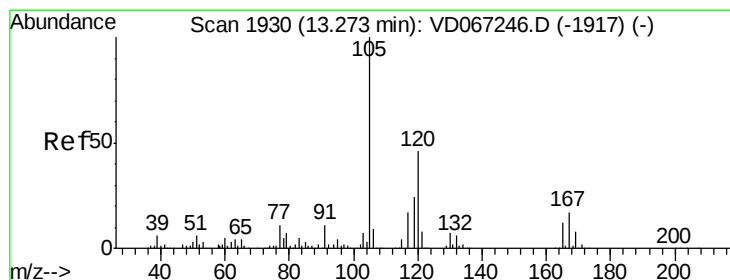
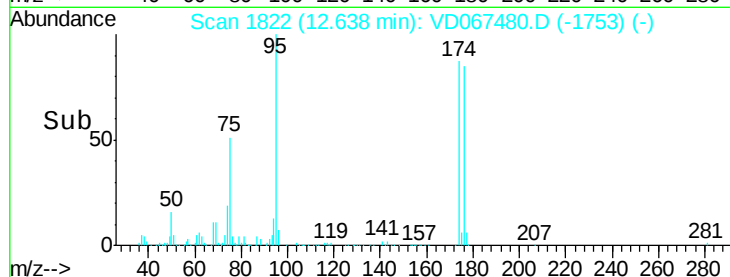
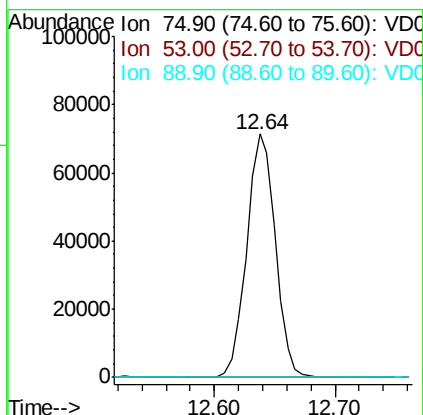
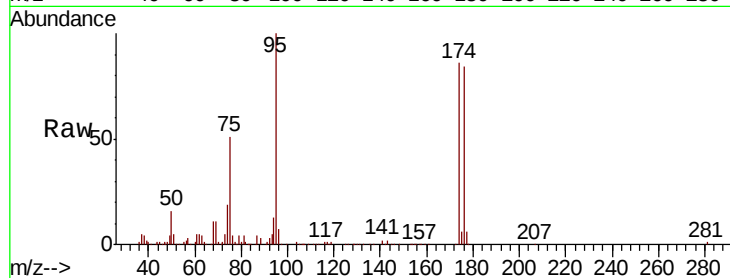




#81
trans-1,4-Dichloro-2-butene
Concen: 161.093 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.11 min
Lab File: VD067480.D
Acq: 30 Oct 2020 18:54

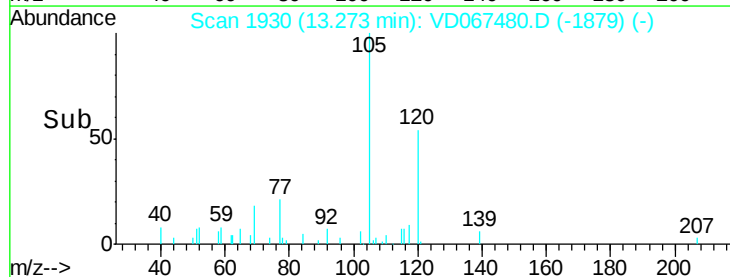
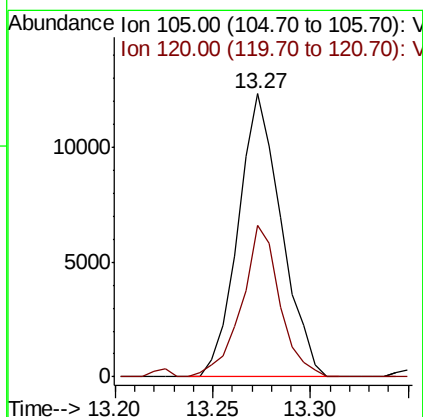
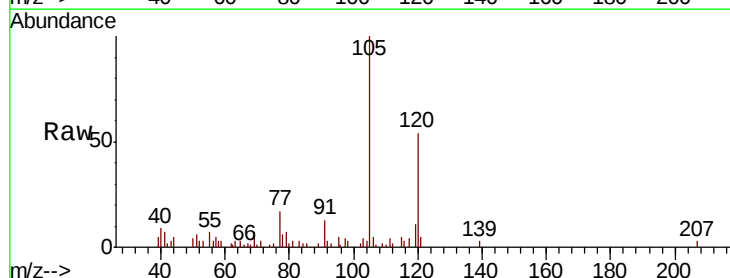
Instrument :
MSVOA_D
ClientSampleId :
BU-02-102820

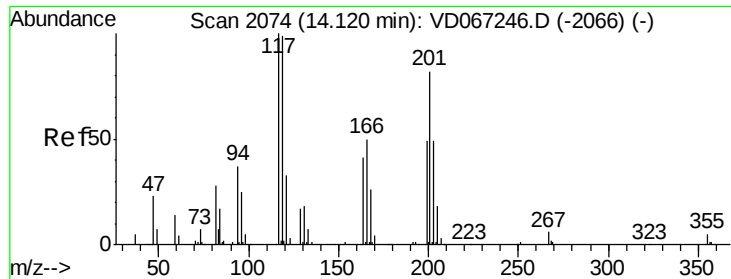
Tot Ion: 75 Resp: 118404
Ion Ratio Lower Upper
75 100
53 0.1 78.5 117.7#
89 0.0 39.9 59.9#



#84
1,2,4-Trimethylbenzene
Concen: 1.443 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VD067480.D
Acq: 30 Oct 2020 18:54

Tgt Ion: 105 Resp: 18922
Ion Ratio Lower Upper
105 100
120 47.1 22.4 67.3





#90

Hexachloroethane

Concen: 1.712 ug/l

RT: 14.12 min Scan# 2074

Delta R.T. 0.00 min

Lab File: VD067480.D

Acq: 30 Oct 2020 18:54

Instrument :

MSVOA_D

ClientSampleId :

BU-02-102820

Tot Ion:117 Resp: 4334

Ion Ratio Lower Upper

117 100

201 1.6 40.8 122.2#

