

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111220\
 Data File : VD067620.D
 Acq On : 12 Nov 2020 13:51
 Operator : VA/SY
 Sample : L4706-02RE
 Misc : 6.56G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 16874

Quant Time: Nov 13 00:57:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110320S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 00:56:28 2020
 Response via : Initial Calibration

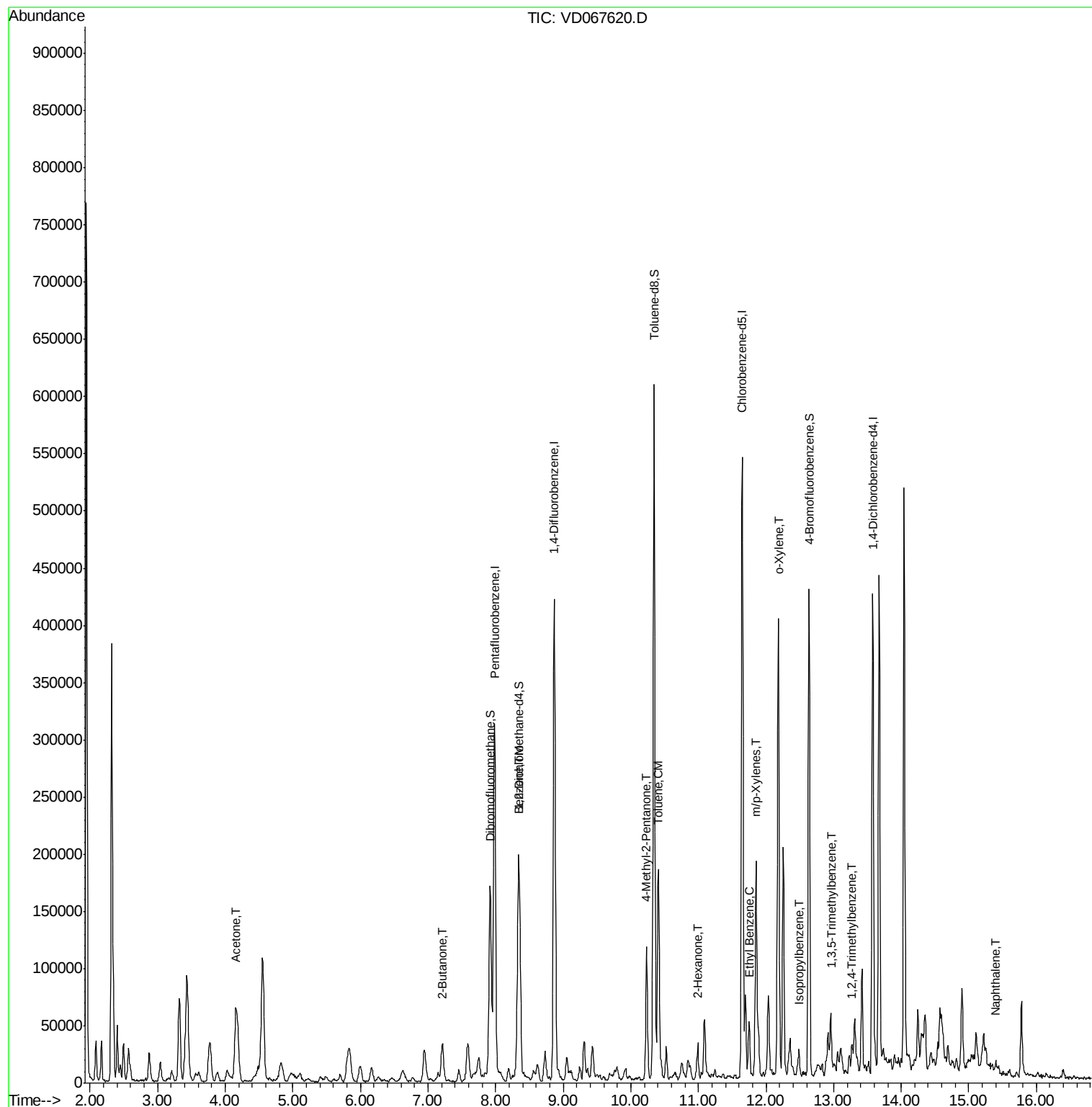
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	237272	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	372973	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	334760	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	115502	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	119365	57.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.06%	
35) Dibromofluoromethane	7.92	113	122644	54.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.16%	
50) Toluene-d8	10.34	98	415679	52.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.28%	
62) 4-Bromofluorobenzene	12.64	95	138853	50.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.86%	
Target Compounds						
16) Acetone	4.16	43	100699	324.349	ug/l	91
25) 2-Butanone	7.21	43	41564	125.291	ug/l	96
40) Benzene	8.36	78	106502	12.315	ug/l	95
51) 4-Methyl-2-Pentanone	10.23	43	67623	86.258	ug/l	99
52) Toluene	10.41	92	80821	13.953	ug/l	99
59) 2-Hexanone	10.99	43	18584	33.903	ug/l	88
67) Ethyl Benzene	11.75	91	28340	2.568	ug/l	98
68) m/p-Xylenes	11.85	106	58026	13.517	ug/l	97
69) o-Xylene	12.18	106	90521	23.617	ug/l	99
73) Isopropylbenzene	12.48	105	8537	1.144	ug/l	94
80) 1,3,5-Trimethylbenzene	12.96	105	9668	1.516	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	17772	2.800	ug/l	94
95) Naphthalene	15.40	128	6256	1.973	ug/l #	89

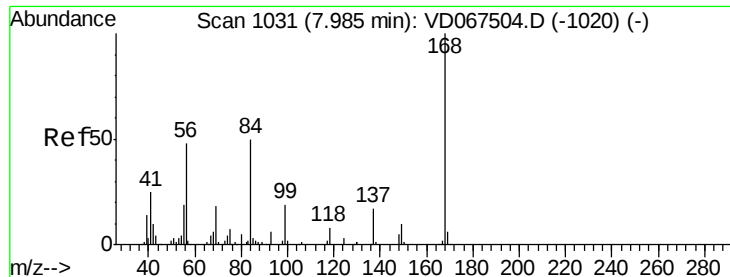
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067620.D

Acq: 12 Nov 2020 13:51

Instrument :

MSVOA_D

ClientSampleId :

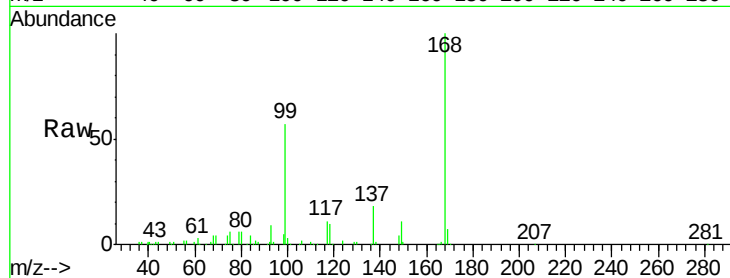
16874

Tot Ion:168 Resp: 237272

Ion Ratio Lower Upper

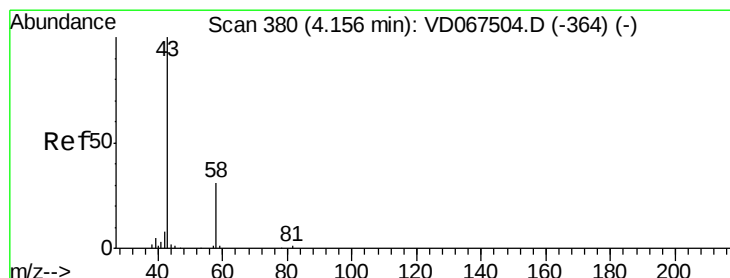
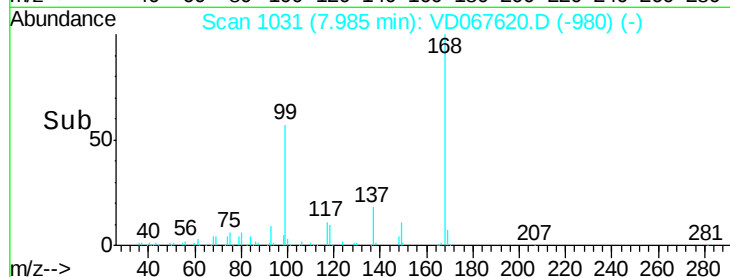
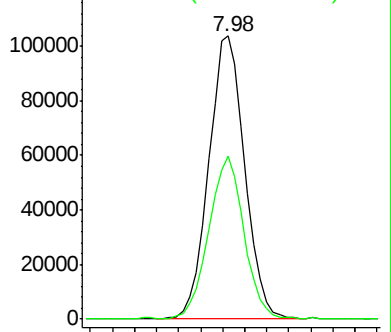
168 100

99 57.2 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 324.349 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD067620.D

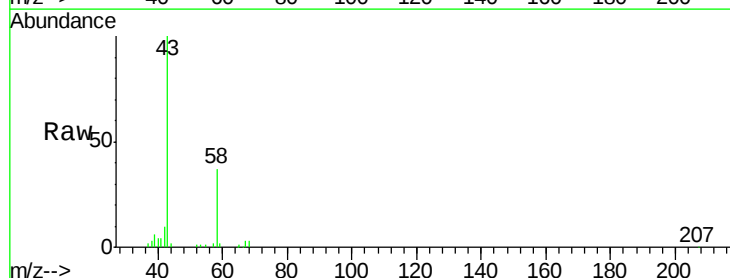
Acq: 12 Nov 2020 13:51

Tgt Ion: 43 Resp: 100699

Ion Ratio Lower Upper

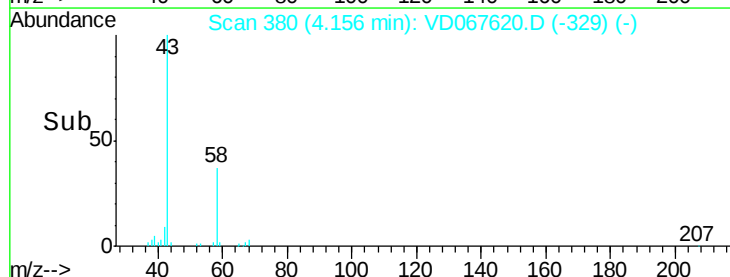
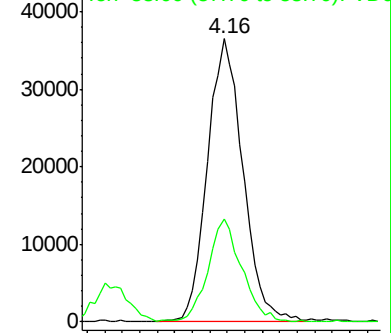
43 100

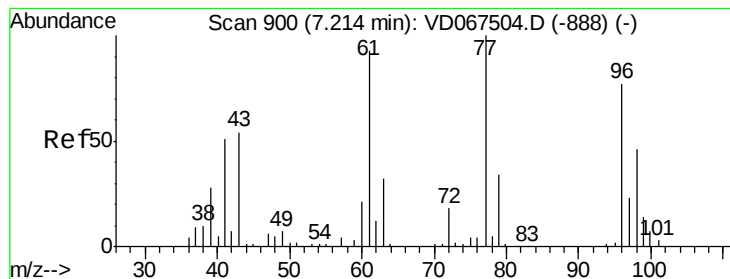
58 36.6 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#25

2-Butanone

Concen: 125.291 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD067620.D

Acq: 12 Nov 2020 13:51

Instrument :

MSVOA_D

ClientSampleId :

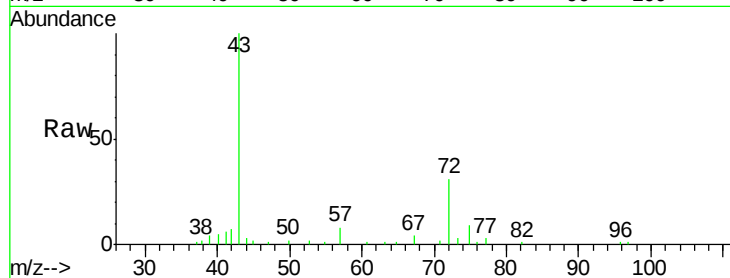
16874

Tot Ion: 43 Resp: 41564

Ion Ratio Lower Upper

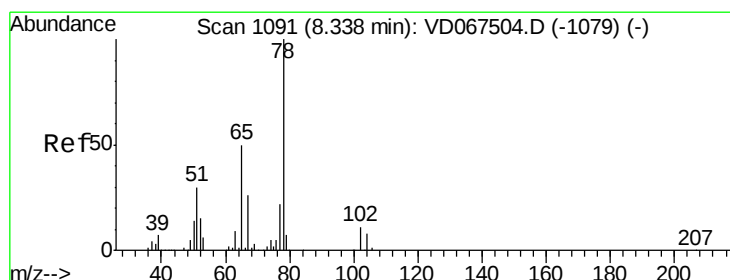
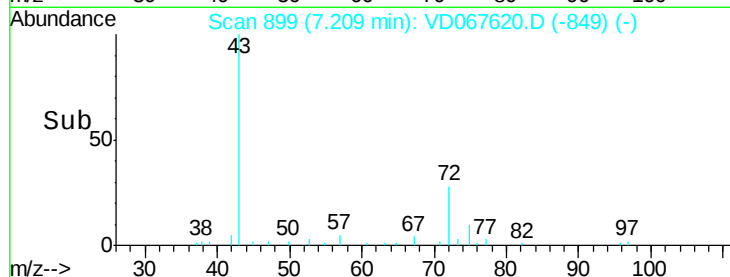
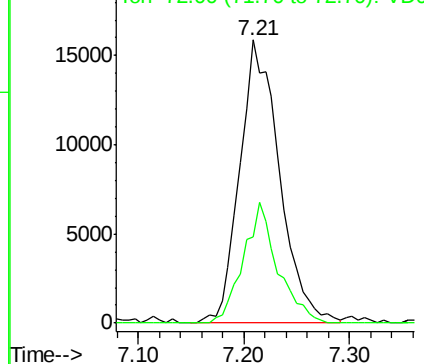
43 100

72 30.5 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 57.534 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD067620.D

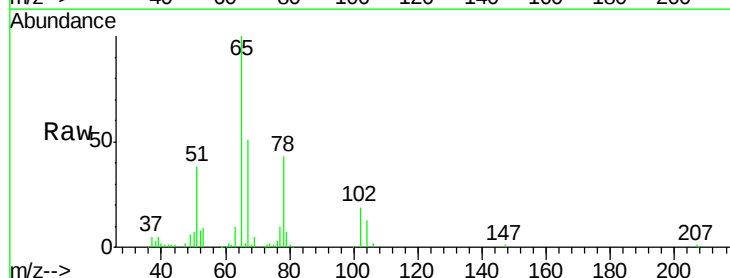
Acq: 12 Nov 2020 13:51

Tgt Ion: 65 Resp: 119365

Ion Ratio Lower Upper

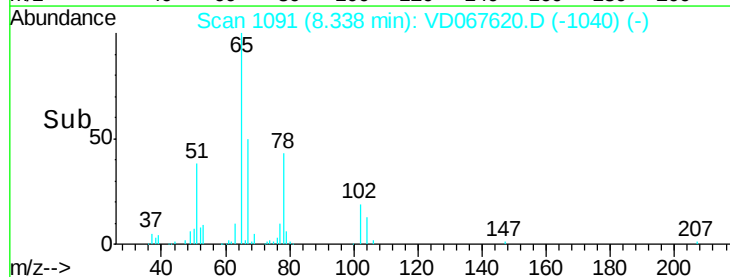
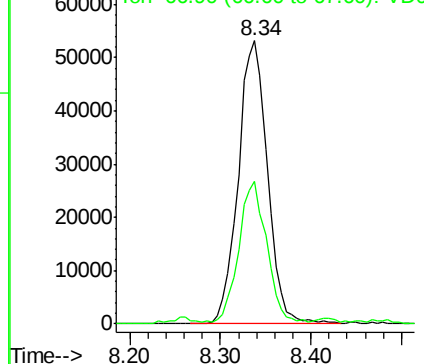
65 100

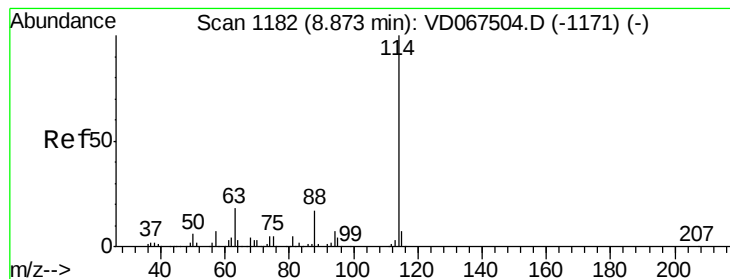
67 48.8 0.0 99.4



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.01 min

Lab File: VD067620.D

Acq: 12 Nov 2020 13:51

Instrument :

MSVOA_D

ClientSampleId :

16874

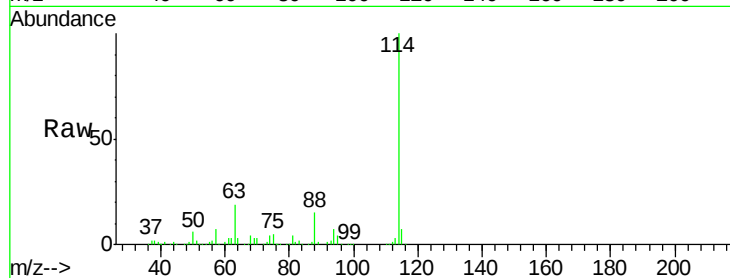
Tot Ion:114 Resp: 372973

Ion Ratio Lower Upper

114 100

63 18.9 0.0 35.0

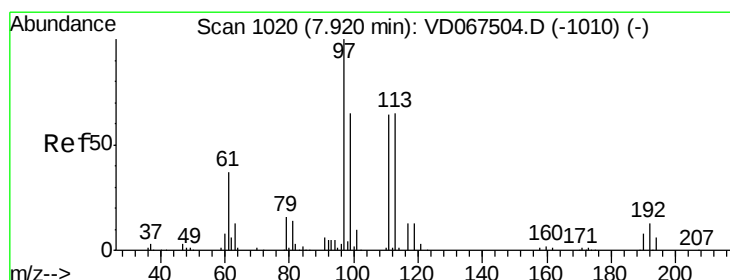
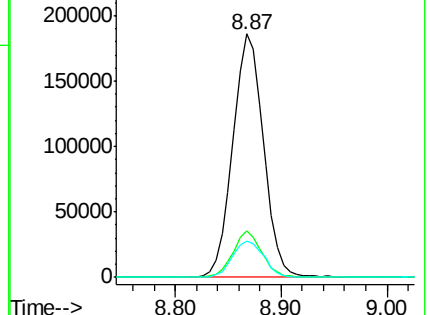
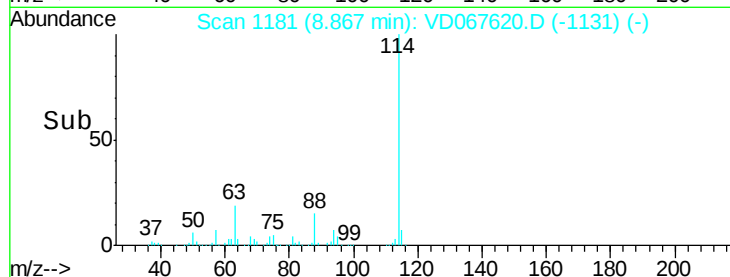
88 15.1 0.0 33.0



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: 54.578 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD067620.D

Acq: 12 Nov 2020 13:51

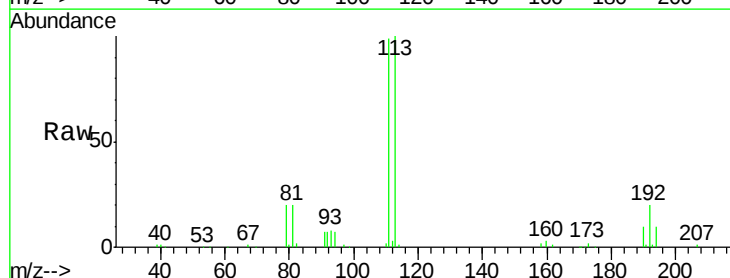
Tgt Ion:113 Resp: 122644

Ion Ratio Lower Upper

113 100

111 100.5 80.0 120.0

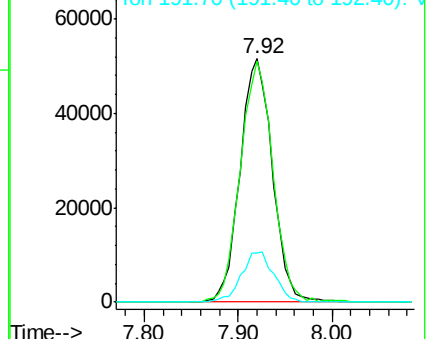
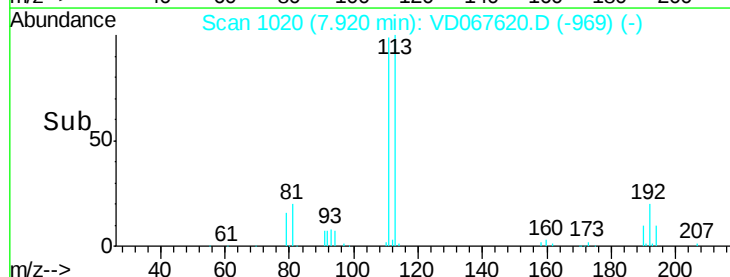
192 20.6 16.3 24.5

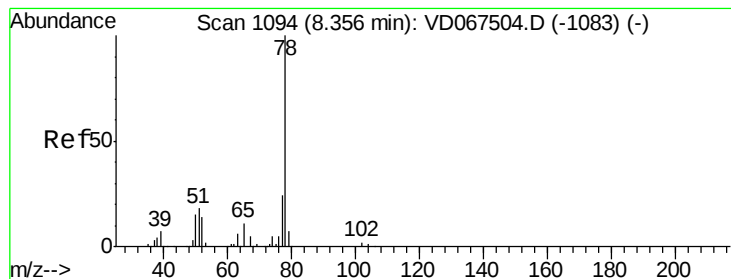


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 12.315 ug/l

RT: 8.36 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VD067620.D

Acq: 12 Nov 2020 13:51

Instrument :

MSVOA_D

ClientSampleId :

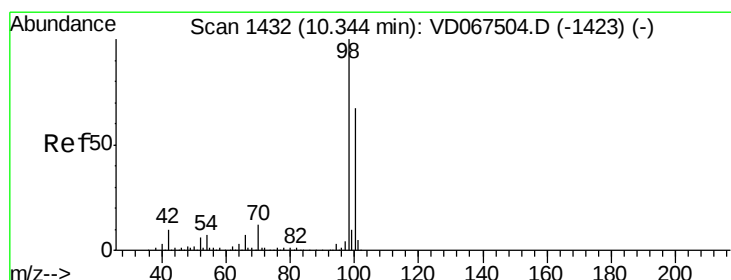
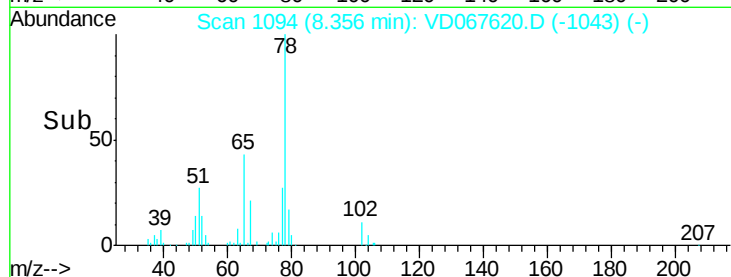
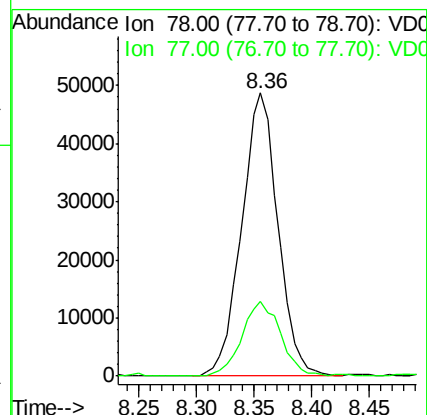
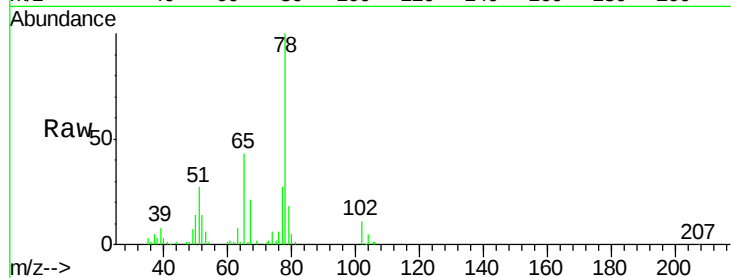
16874

Tot Ion: 78 Resp: 106502

Ion Ratio Lower Upper

78 100

77 26.6 19.1 28.7



#50

Toluene-d8

Concen: 52.637 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067620.D

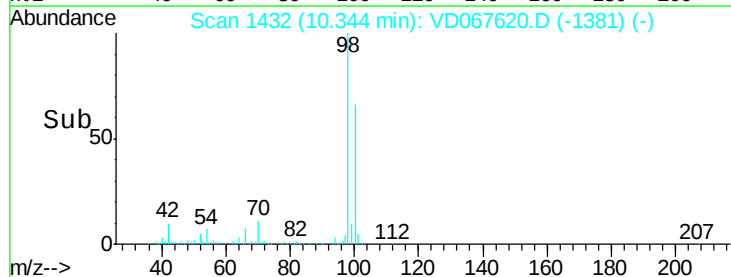
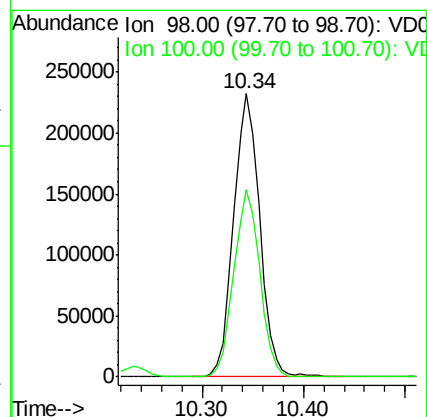
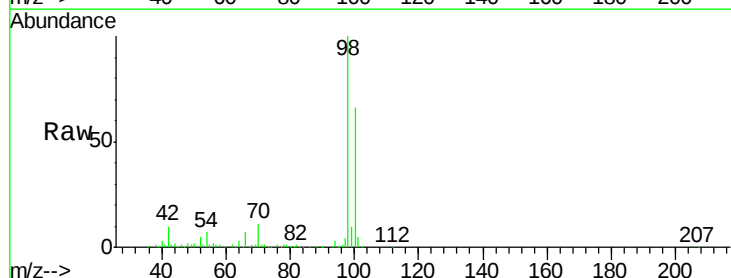
Acq: 12 Nov 2020 13:51

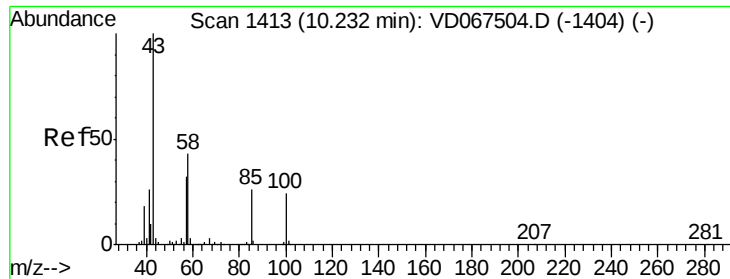
Tgt Ion: 98 Resp: 415679

Ion Ratio Lower Upper

98 100

100 66.0 53.0 79.6





#51

4-Methyl-2-Pentanone

Concen: 86.258 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD067620.D

Acq: 12 Nov 2020 13:51

Instrument :

MSVOA_D

ClientSampleId :

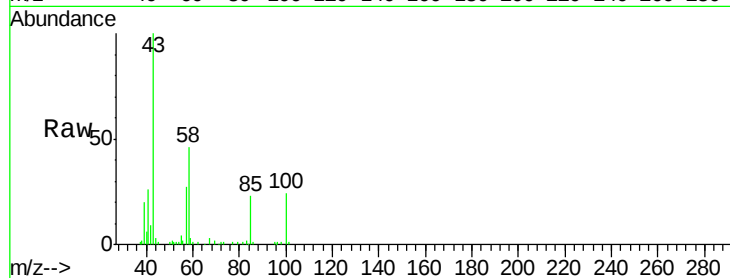
16874

Tot Ion: 43 Resp: 67623

Ion Ratio Lower Upper

43 100

58 45.0 35.6 53.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.23

40000

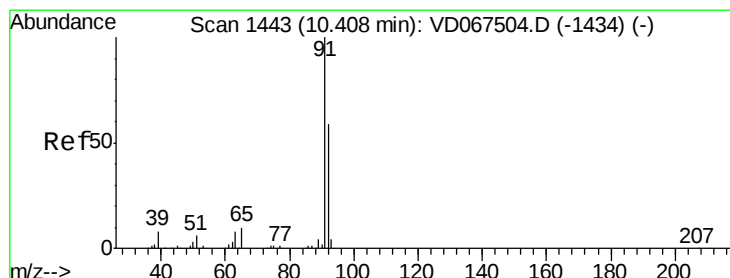
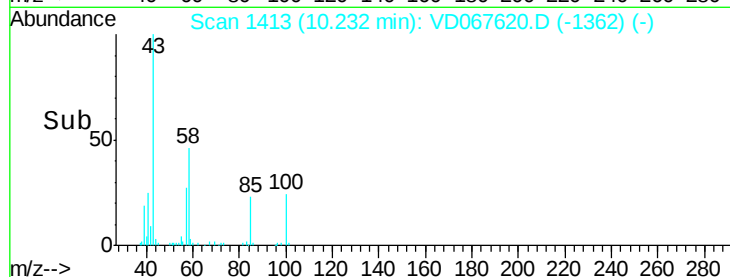
30000

20000

10000

0

Time--> 10.15 10.20 10.25 10.30



#52

Toluene

Concen: 13.953 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD067620.D

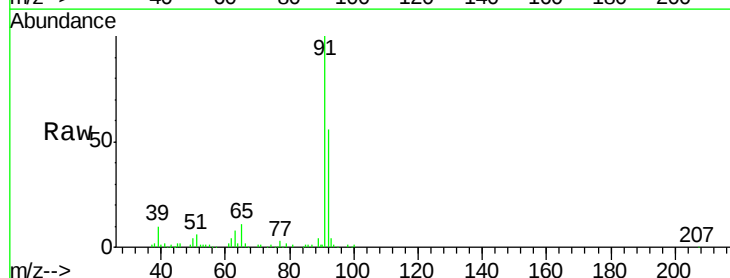
Acq: 12 Nov 2020 13:51

Tgt Ion: 92 Resp: 80821

Ion Ratio Lower Upper

92 100

91 173.3 137.0 205.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.41

80000

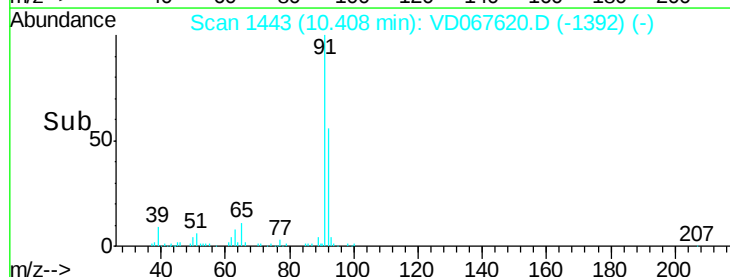
60000

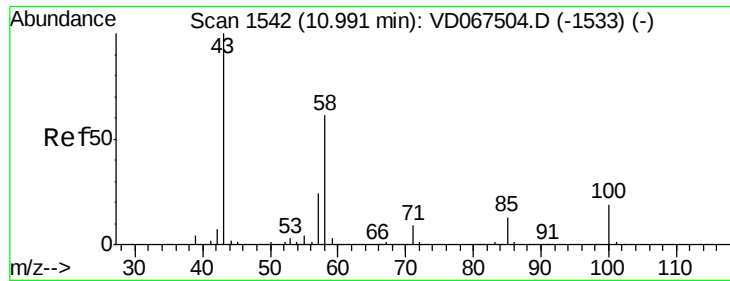
40000

20000

0

Time--> 10.30 10.40 10.50

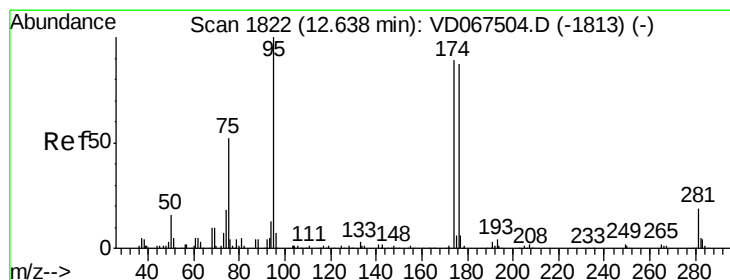
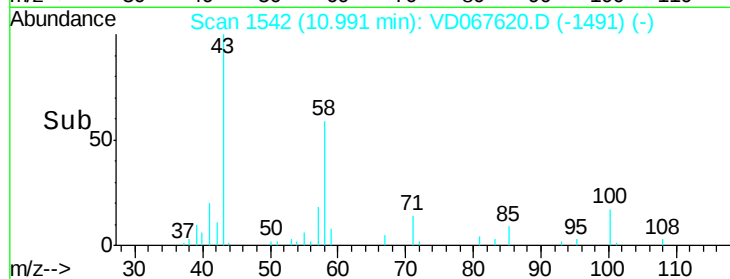
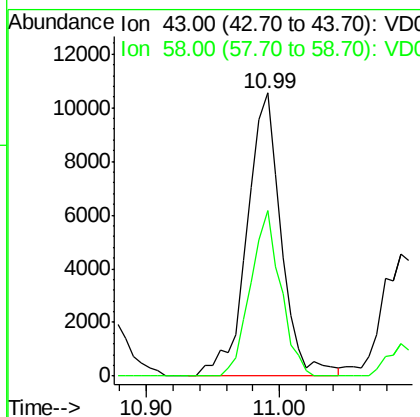
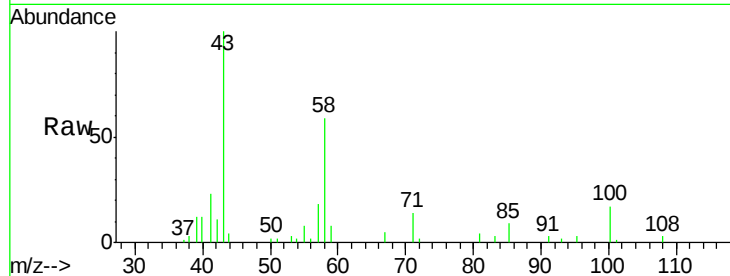




#59
2-Hexanone
Concen: 33.903 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD067620.D
Acq: 12 Nov 2020 13:51

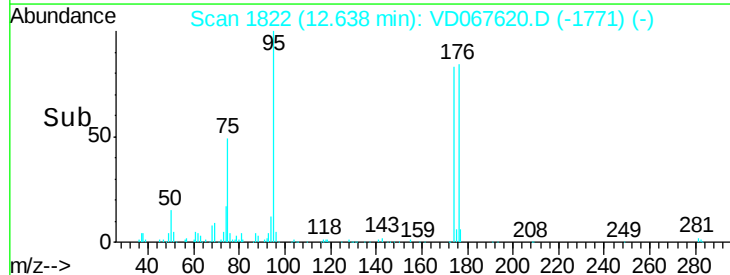
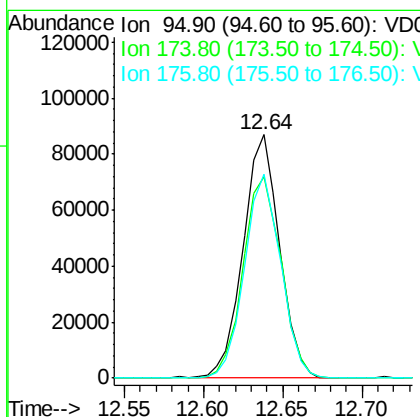
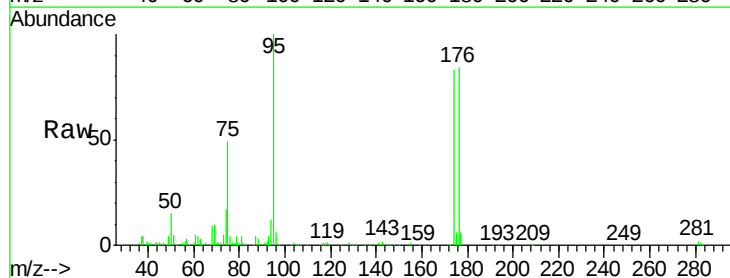
Instrument :
MSVOA_D
ClientSampled :
16874

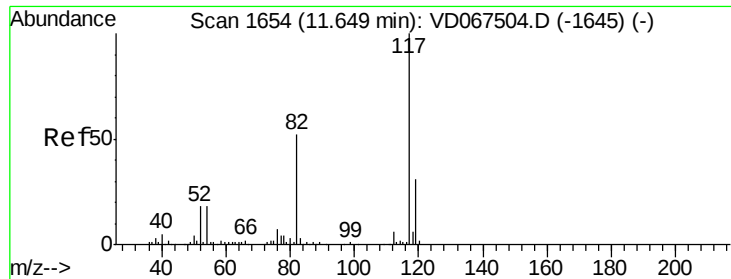
Tot Ion: 43 Resp: 18584
Ion Ratio Lower Upper
43 100
58 51.5 30.3 90.9



#62
4-Bromofluorobenzene
Concen: 50.929 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD067620.D
Acq: 12 Nov 2020 13:51

Tgt Ion: 95 Resp: 138853
Ion Ratio Lower Upper
95 100
174 86.6 0.0 177.8
176 83.5 0.0 172.0

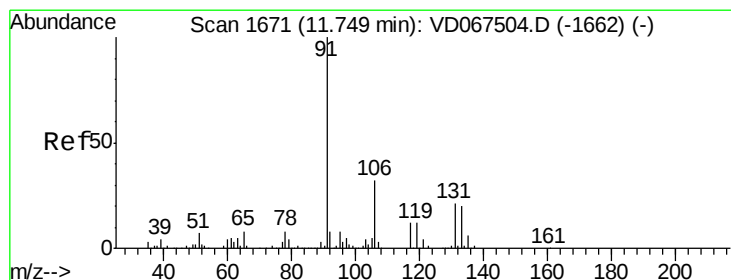
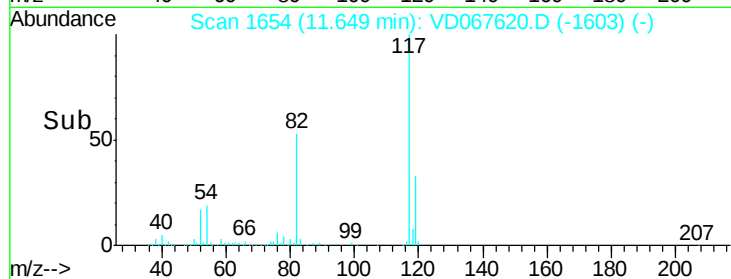
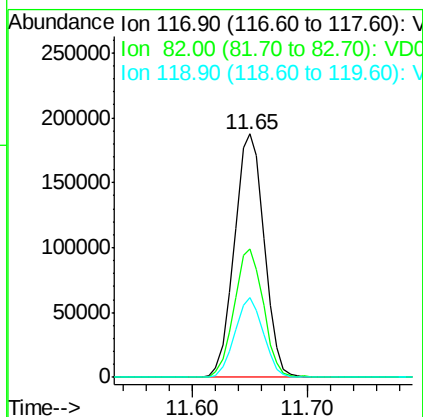
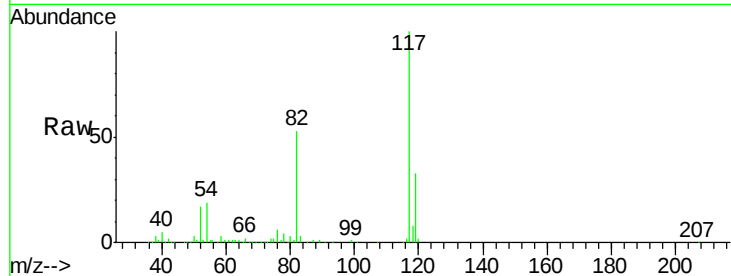




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD067620.D
Acq: 12 Nov 2020 13:51

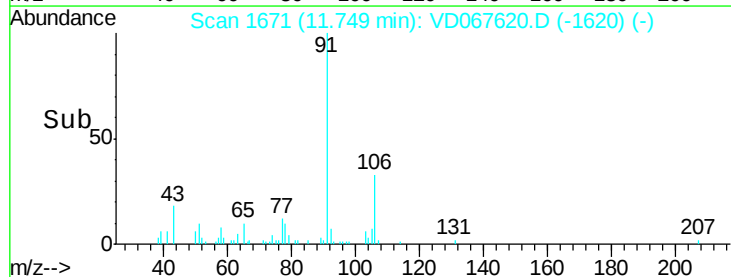
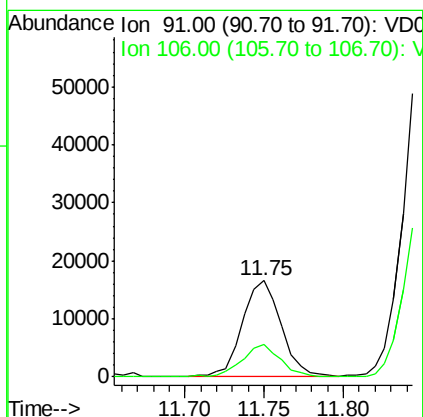
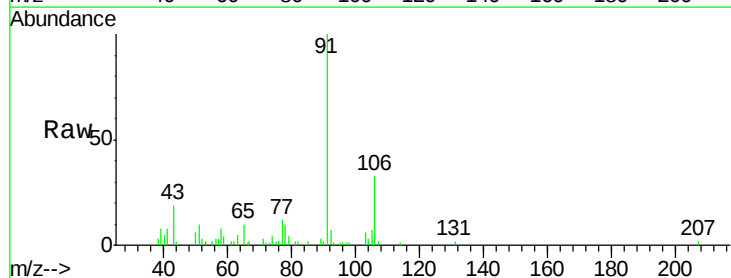
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16874

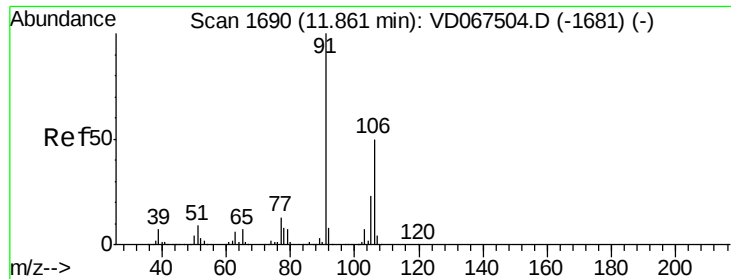
Tot Ion:117 Resp: 334760
Ion Ratio Lower Upper
117 100
82 52.7 41.6 62.4
119 32.9 25.1 37.7



#67
Ethyl Benzene
Concen: 2.568 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD067620.D
Acq: 12 Nov 2020 13:51

Tgt Ion: 91 Resp: 28340
Ion Ratio Lower Upper
91 100
106 33.4 25.7 38.5

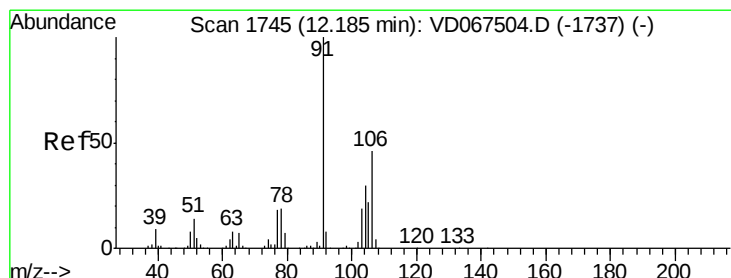
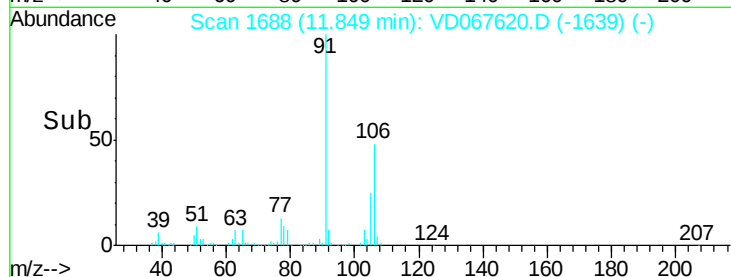
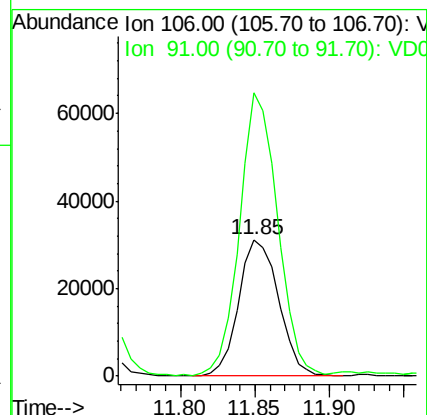
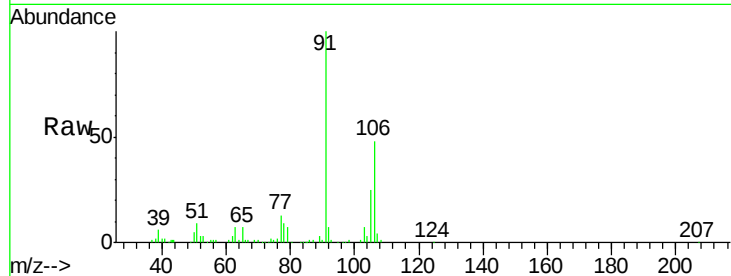




#68
m/p-Xylenes
Concen: 13.517 ug/l
RT: 11.85 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VD067620.D
Acq: 12 Nov 2020 13:51

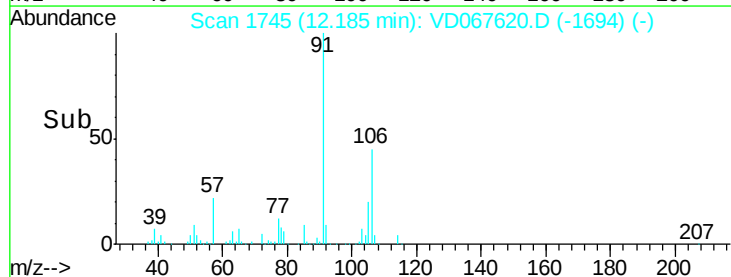
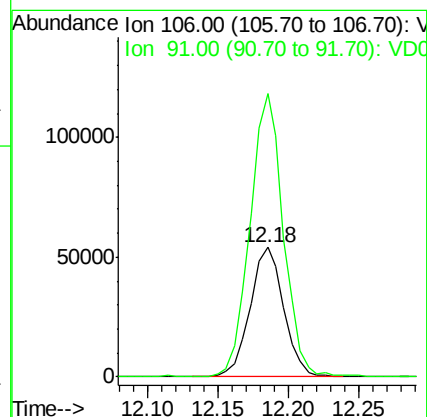
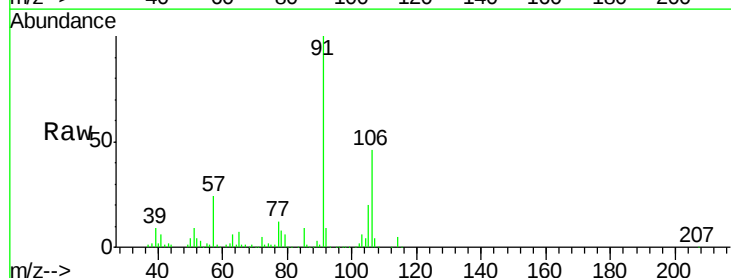
Instrument :
MSVOA_D
ClientSampled :
16874

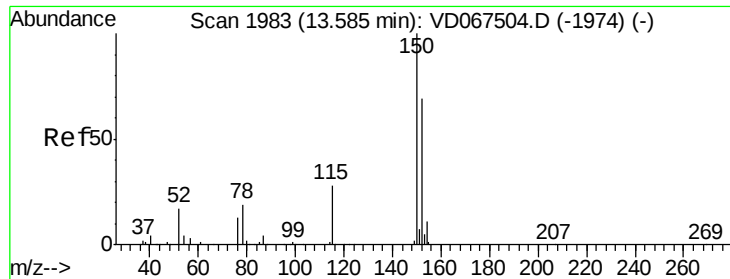
Tot Ion:106 Resp: 58026
Ion Ratio Lower Upper
106 100
91 198.6 162.6 244.0



#69
o-Xylene
Concen: 23.617 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD067620.D
Acq: 12 Nov 2020 13:51

Tgt Ion:106 Resp: 90521
Ion Ratio Lower Upper
106 100
91 215.5 107.1 321.1



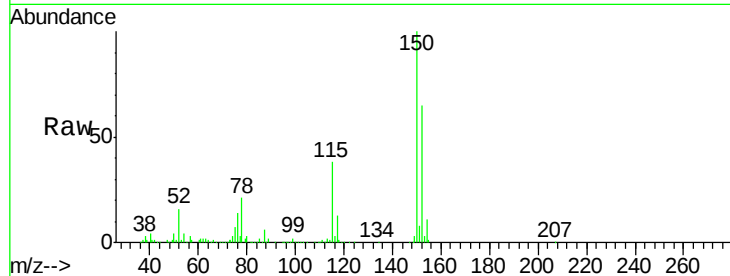


#72

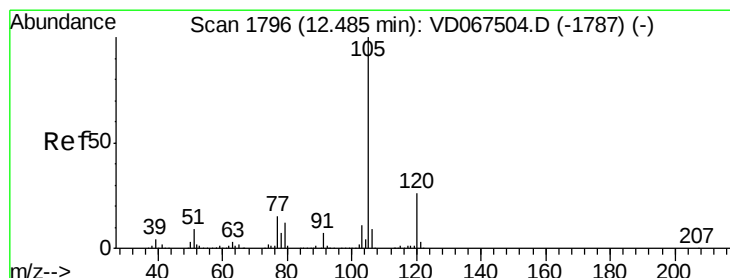
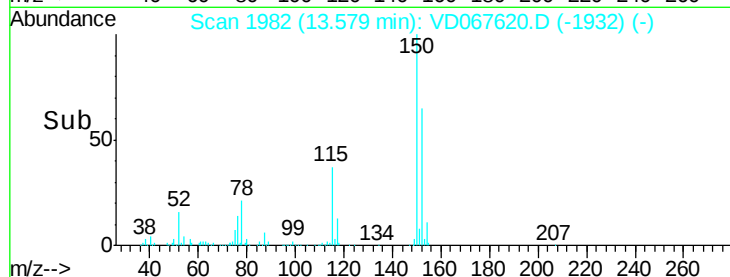
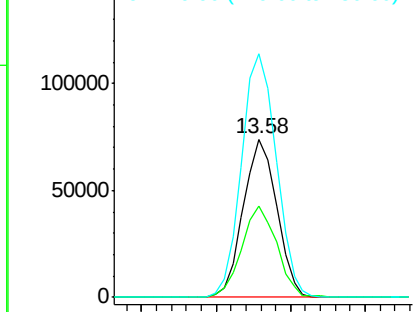
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067620.D
Acq: 12 Nov 2020 13:51

Instrument :
MSVOA_D
ClientSampleId :
16874

Tot Ion	152	Resp	115	502
Ion Ratio	100			
Lower	29.3			
Upper	88.0			
150	159.6	0.0	338.2	



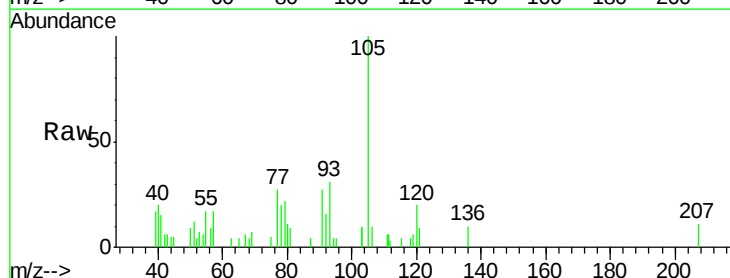
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



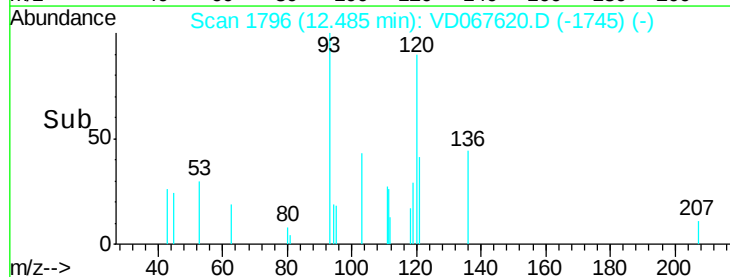
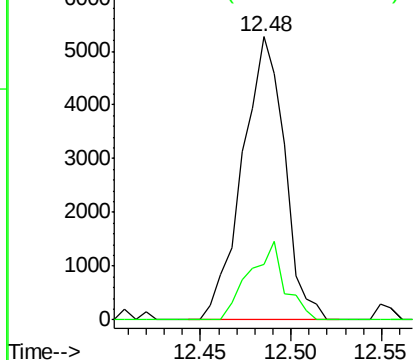
#73

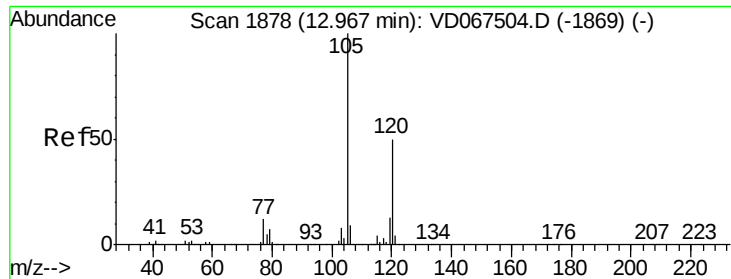
Isopropylbenzene
Concen: 1.144 ug/l
RT: 12.48 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VD067620.D
Acq: 12 Nov 2020 13:51

Tgt Ion	105	Resp	8537
Ion Ratio	100		
Lower	13.2		
Upper	39.6		
120	23.4		



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

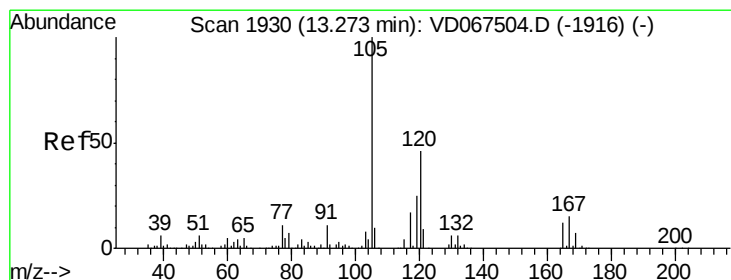
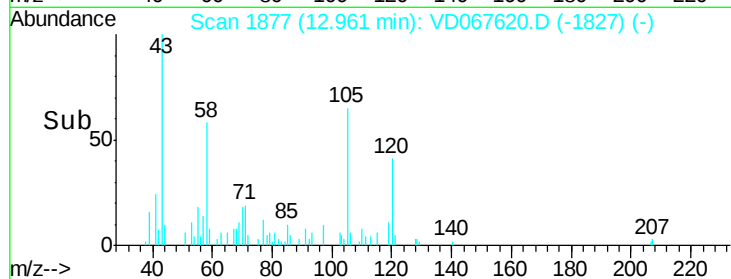
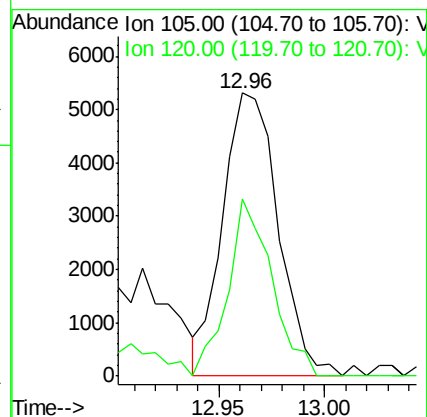
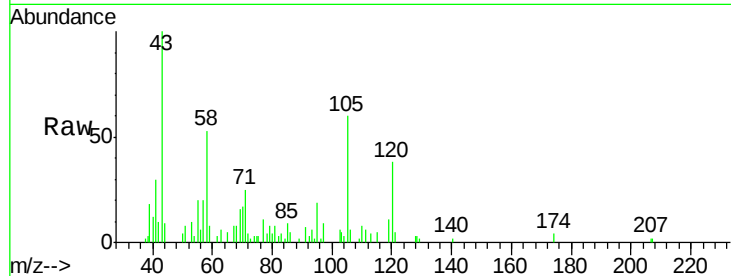




#80
 1,3,5-Trimethylbenzene
 Concen: 1.516 ug/l
 RT: 12.96 min Scan# 1877
 Delta R.T. -0.01 min
 Lab File: VD067620.D
 Acq: 12 Nov 2020 13:51

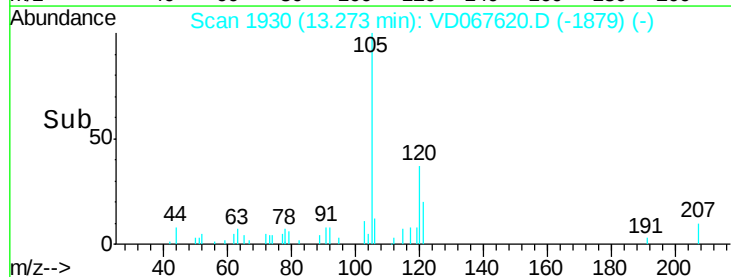
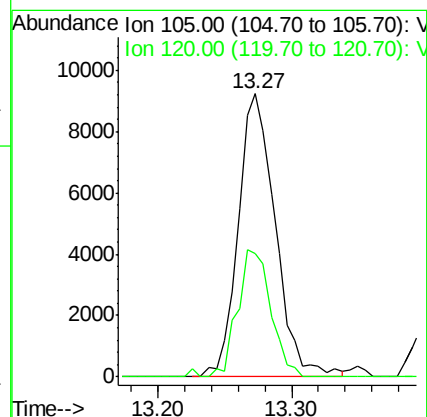
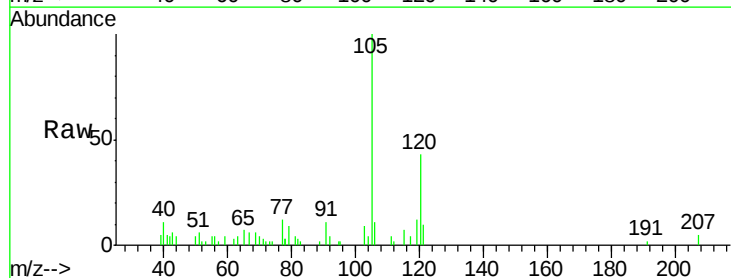
Instrument :
 MSVOA_D
 ClientSampleId :
 16874

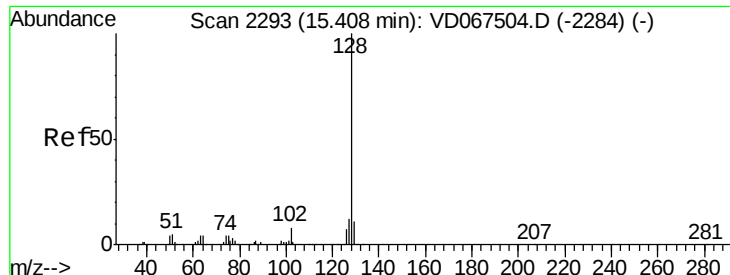
Tot Ion:105 Resp: 9668
 Ion Ratio Lower Upper
 105 100
 120 49.5 24.3 72.8



#84
 1,2,4-Trimethylbenzene
 Concen: 2.800 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VD067620.D
 Acq: 12 Nov 2020 13:51

Tgt Ion:105 Resp: 17772
 Ion Ratio Lower Upper
 105 100
 120 40.1 22.1 66.1





#95

Naphthalene

Concen: 1.973 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD067620.D

Acq: 12 Nov 2020 13:51

Instrument :

MSVOA_D

ClientSampleId :

16874

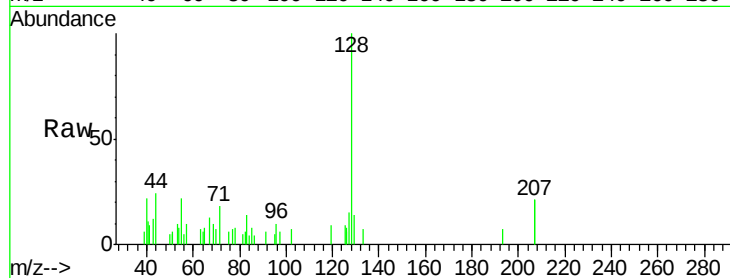
Tot Ion:128 Resp: 6256

Ion Ratio Lower Upper

128 100

127 16.7 10.2 15.4#

129 15.9 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

