

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100720\
 Data File : VD067161.D
 Acq On : 07 Oct 2020 19:14
 Operator : VA/SY
 Sample : L4281-03
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 49-93

Quant Time: Oct 08 08:26:56 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	345543	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	580425	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	481939	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	192352	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	157722	47.39	ug/l	0.00
Spiked Amount			Recovery	=	94.78%	
35) Dibromofluoromethane	7.91	113	177723	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	
50) Toluene-d8	10.34	98	654290	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
62) 4-Bromofluorobenzene	12.64	95	205903	43.80	ug/l	0.00
Spiked Amount			Recovery	=	87.60%	

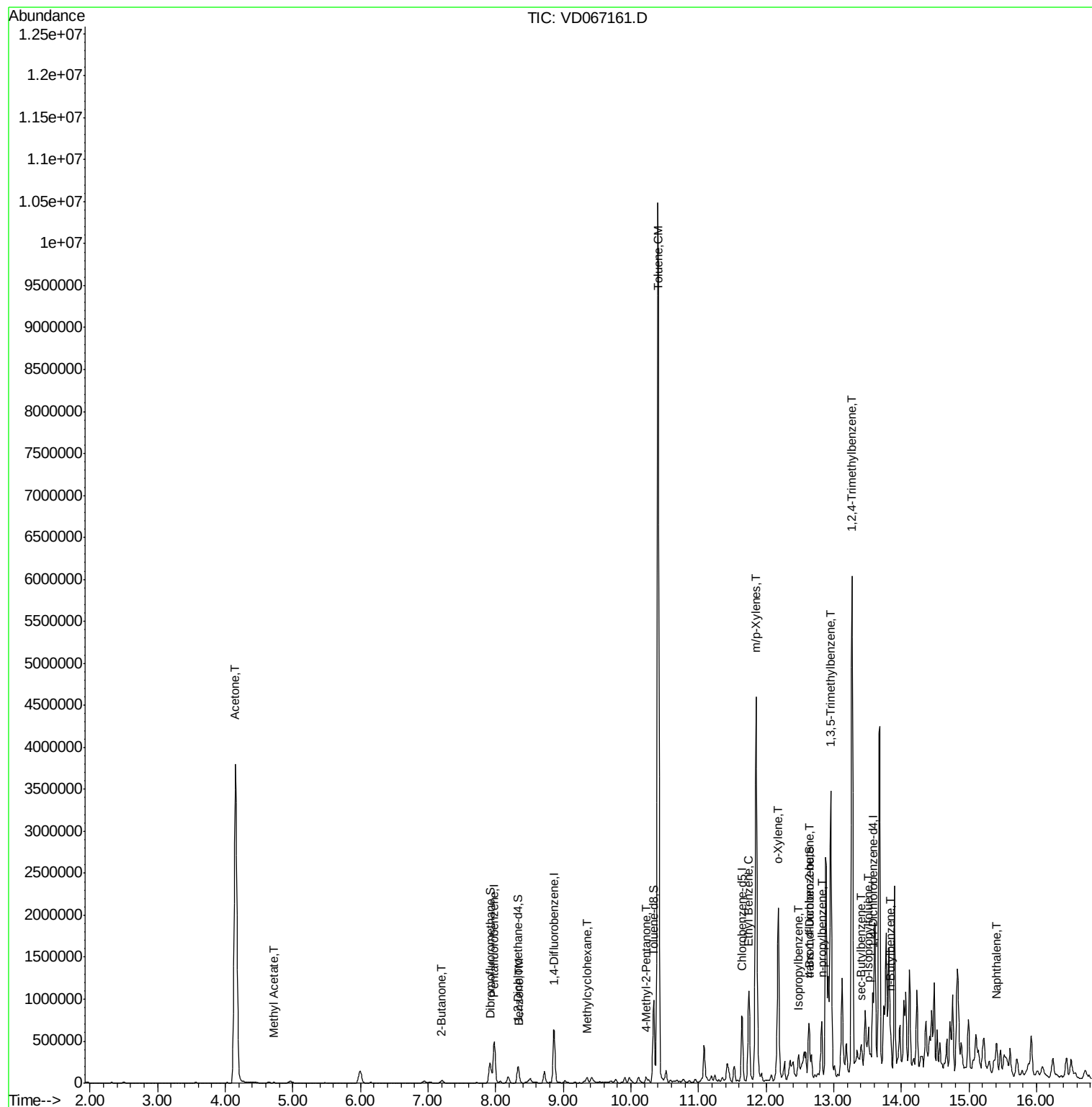
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.15	43	6817232	13418.158	ug/l	100
18) Methyl Acetate	4.72	43	7555	5.917	ug/l #	74
25) 2-Butanone	7.21	43	31905	44.293	ug/l	94
39) Methylcyclohexane	9.36	83	18092	3.163	ug/l	92
40) Benzene	8.35	78	18597	1.238	ug/l #	69
51) 4-Methyl-2-Pentanone	10.23	43	45930	26.706	ug/l	99
52) Toluene	10.40	92	4877019	503.821	ug/l	97
67) Ethyl Benzene	11.74	91	793918	48.341	ug/l	100
68) m/p-Xylenes	11.85	106	1290287	201.596	ug/l	97
69) o-Xylene	12.18	106	574871	100.440	ug/l	93
73) Isopropylbenzene	12.48	105	169014	12.940	ug/l	99
78) n-propylbenzene	12.83	91	544462	35.273	ug/l	100
80) 1,3,5-Trimethylbenzene	12.96	105	1058501	95.922	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.63	75	105349	156.763	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.27	105	3379845	306.910	ug/l	99
85) sec-Butylbenzene	13.41	105	164524	12.572	ug/l	79
86) p-Isopropyltoluene	13.52	119	152784	12.593	ug/l	97
89) n-Butylbenzene	13.85	91	172617	15.568	ug/l #	73
95) Naphthalene	15.41	128	295810	51.107	ug/l	98

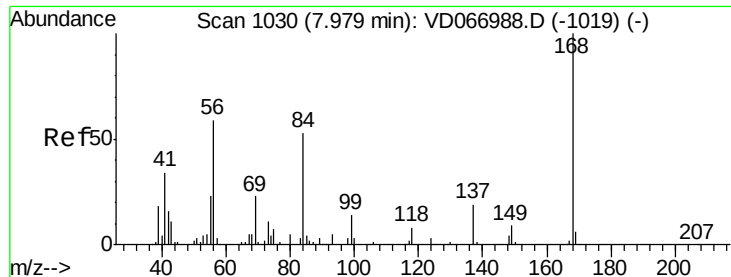
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD067161.D

Acq: 07 Oct 2020 19:14

Instrument :

MSVOA_D

ClientSampleId :

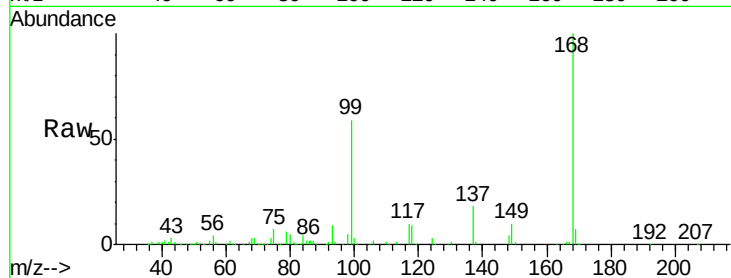
49-93

Tot Ion:168 Resp: 345543

Ion Ratio Lower Upper

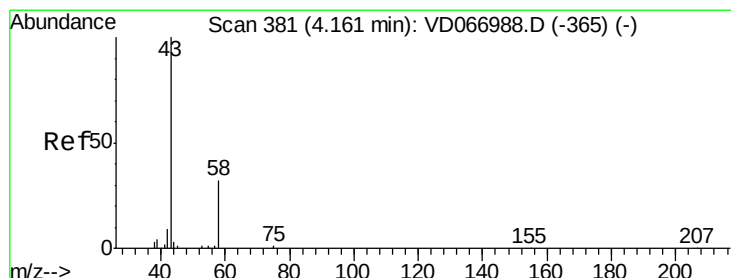
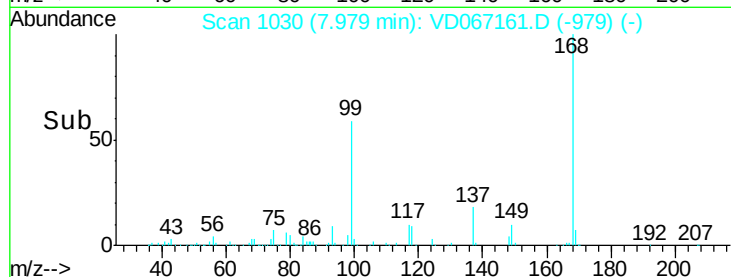
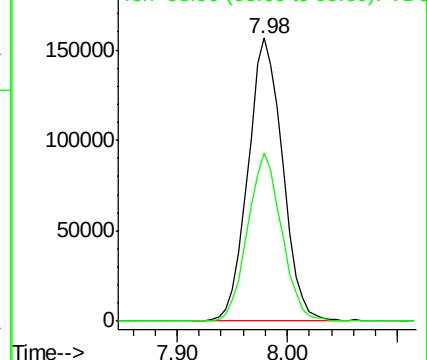
168 100

99 59.3 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 13418.158 ug/l

RT: 4.15 min Scan# 379

Delta R.T. -0.01 min

Lab File: VD067161.D

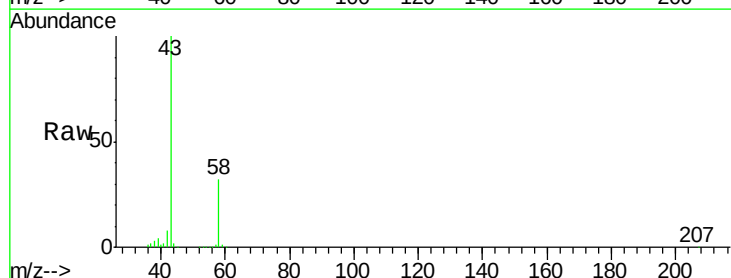
Acq: 07 Oct 2020 19:14

Tgt Ion: 43 Resp: 6817232

Ion Ratio Lower Upper

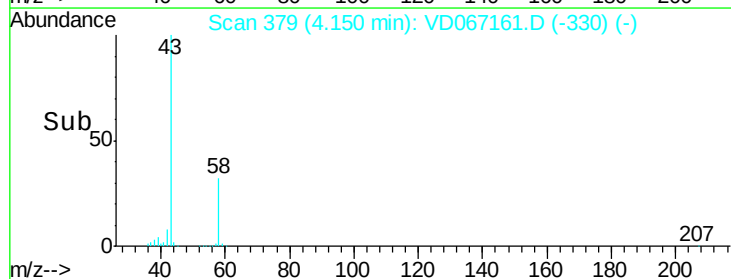
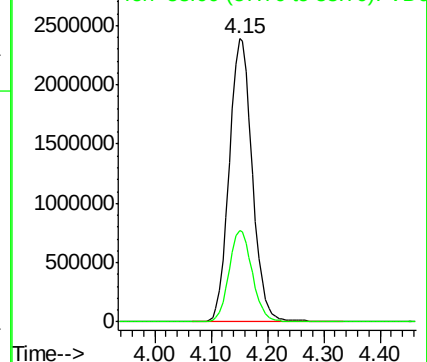
43 100

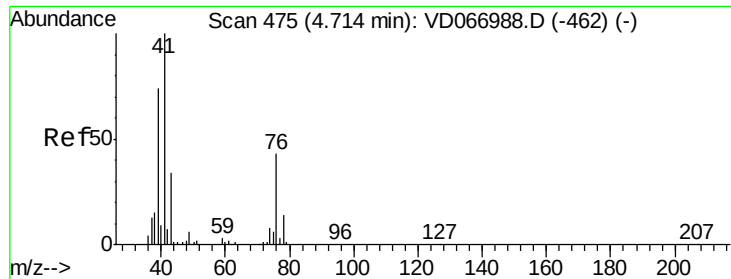
58 32.4 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

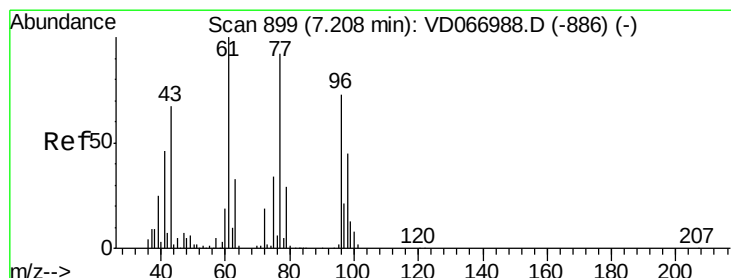
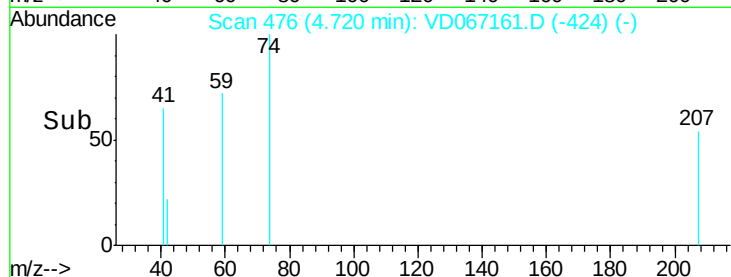
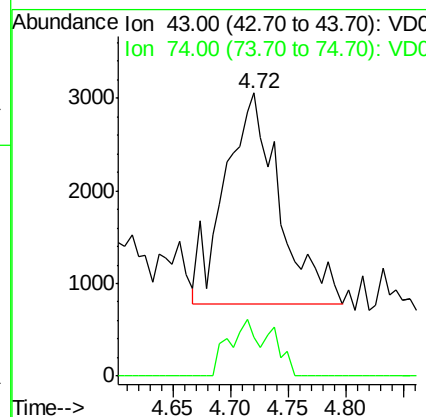
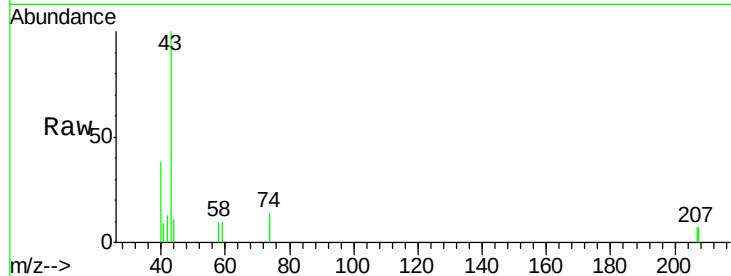




#18
Methyl Acetate
Concen: 5.917 ug/l
RT: 4.72 min Scan# 476
Delta R.T. 0.01 min
Lab File: VD067161.D
Acq: 07 Oct 2020 19:14

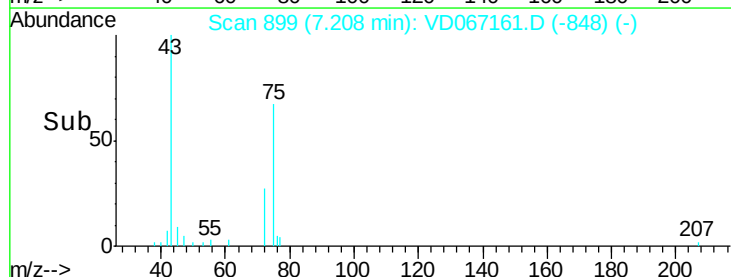
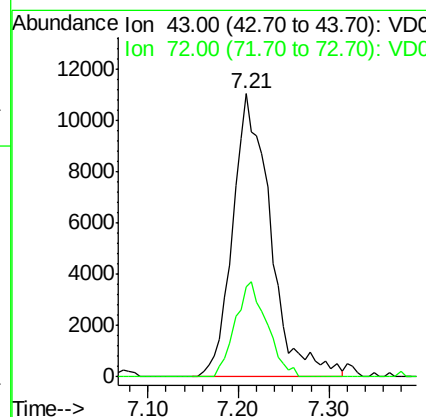
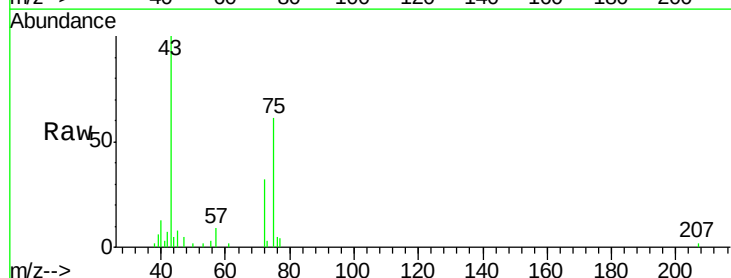
Instrument :
MSVOA_D
ClientSampleId :
49-93

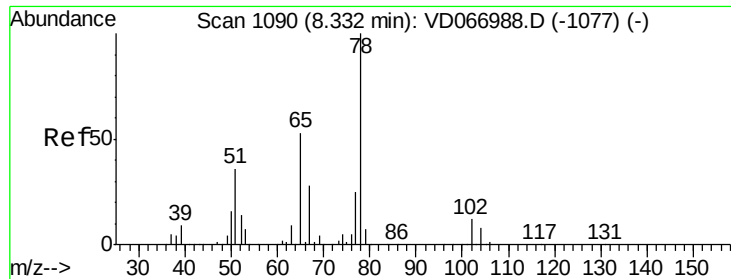
Tot Ion: 43 Resp: 7555
Ion Ratio Lower Upper
43 100
74 13.4 21.5 32.3#



#25
2-Butanone
Concen: 44.293 ug/l
RT: 7.21 min Scan# 899
Delta R.T. 0.00 min
Lab File: VD067161.D
Acq: 07 Oct 2020 19:14

Tgt Ion: 43 Resp: 31905
Ion Ratio Lower Upper
43 100
72 31.8 22.8 34.2

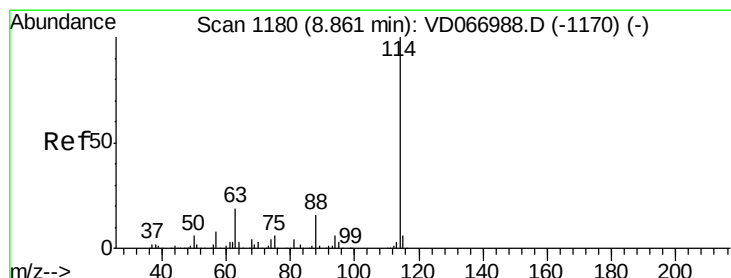
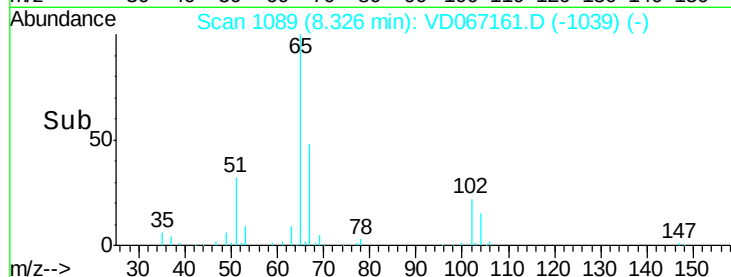
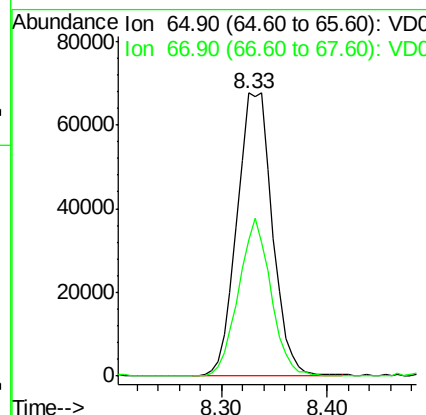
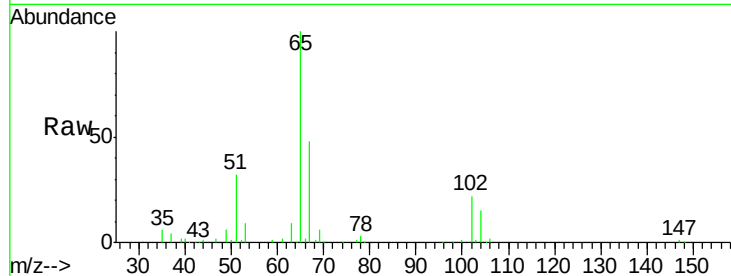




#33
 1,2-Dichloroethane-d4
 Concen: 47.389 ug/l
 RT: 8.33 min Scan# 1089
 Delta R.T. -0.01 min
 Lab File: VD067161.D
 Acq: 07 Oct 2020 19:14

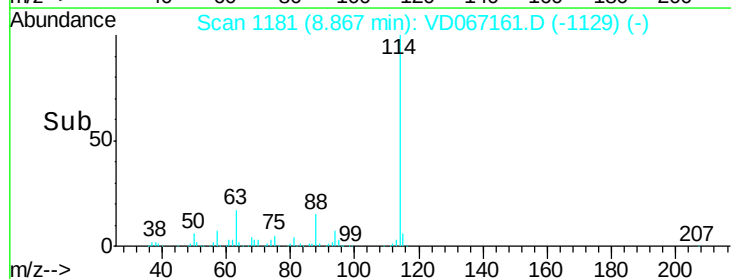
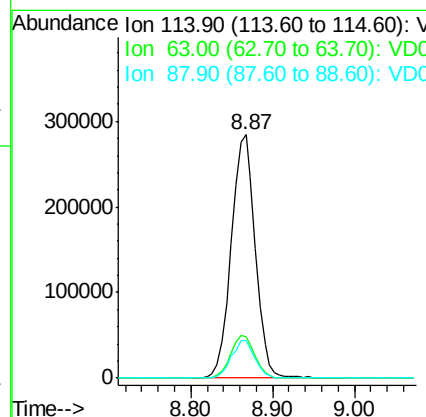
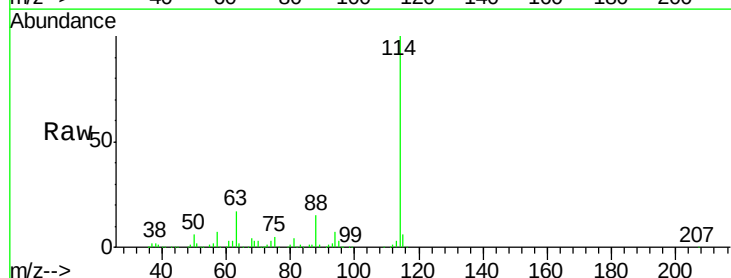
Instrument :
 MSVOA_D
 ClientSampleId :
 49-93

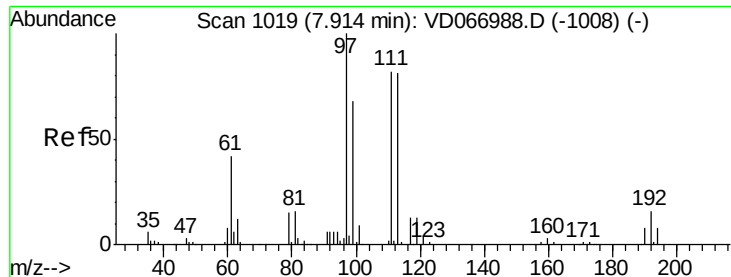
Tot Ion: 65 Resp: 157722
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.01 min
 Lab File: VD067161.D
 Acq: 07 Oct 2020 19:14

Tgt Ion: 114 Resp: 580425
 Ion Ratio Lower Upper
 114 100
 63 16.9 0.0 38.4
 88 15.3 0.0 31.2

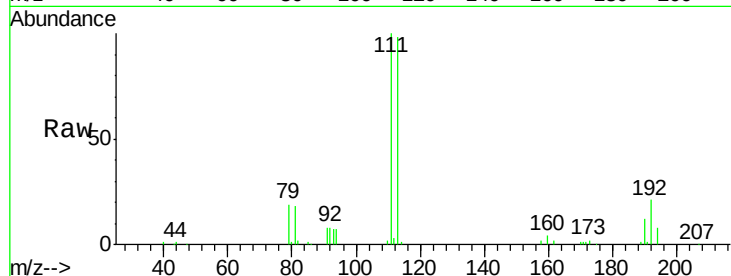




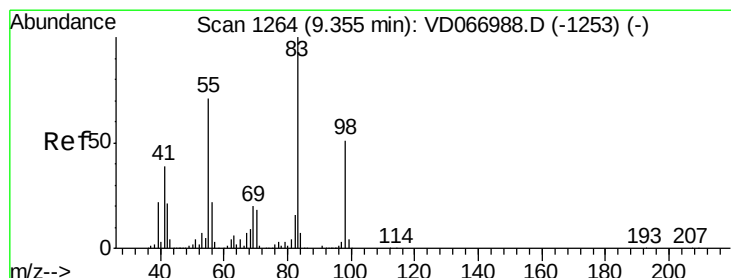
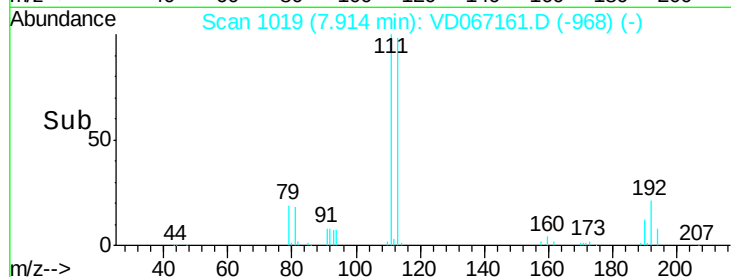
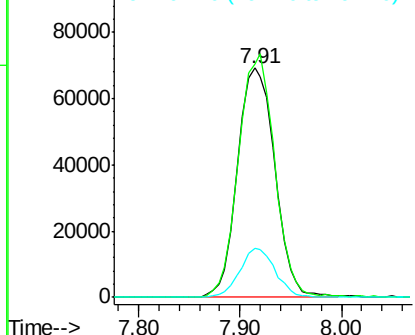
#35
Dibromofluoromethane
Concen: 46.770 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VD067161.D
Acq: 07 Oct 2020 19:14

Instrument :
MSVOA_D
ClientSampleId :
49-93

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.0	124.4
192	20.2	15.5	23.3

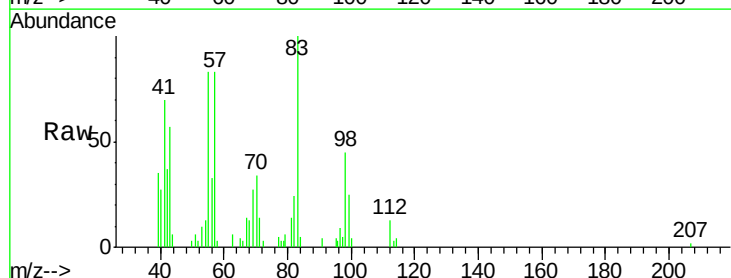


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

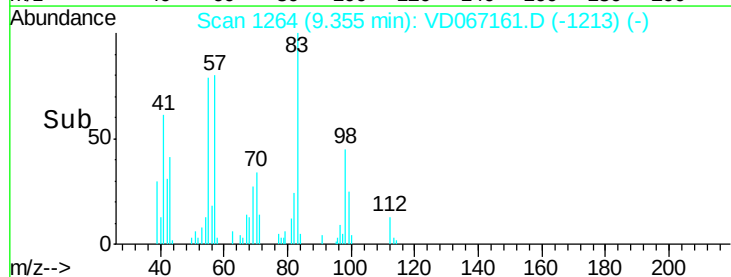
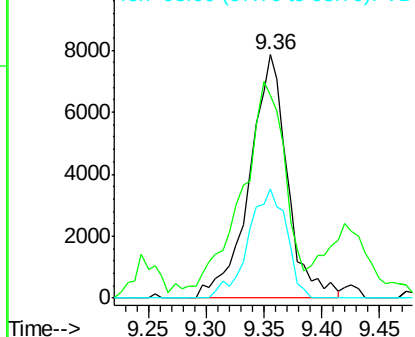


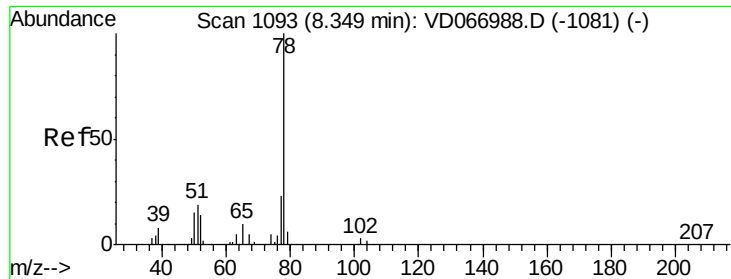
#39
Methylcyclohexane
Concen: 3.163 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD067161.D
Acq: 07 Oct 2020 19:14

Tgt Ion	Ratio	Lower	Upper
83	100		
55	77.9	57.1	85.7
98	44.8	40.9	61.3



Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC





#40

Benzene

Concen: 1.238 ug/l

RT: 8.35 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VD067161.D

Acq: 07 Oct 2020 19:14

Instrument :

MSVOA_D

ClientSampleId :

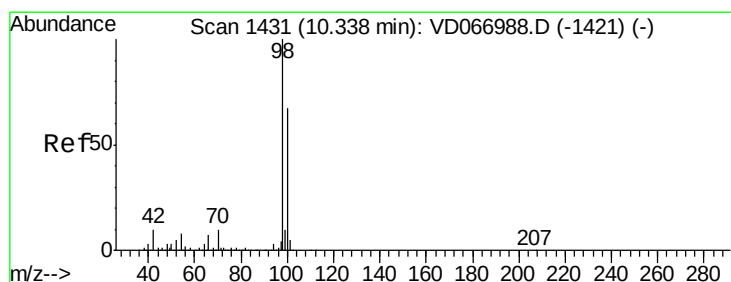
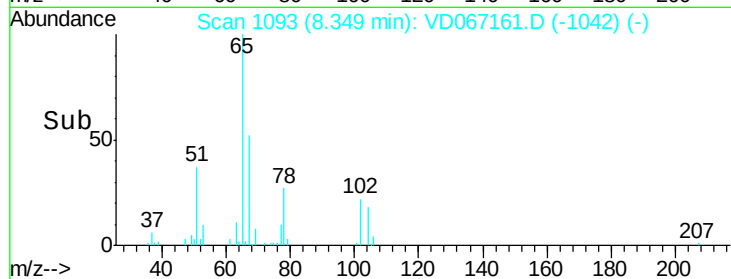
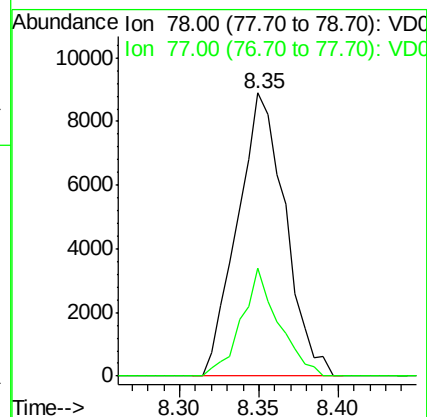
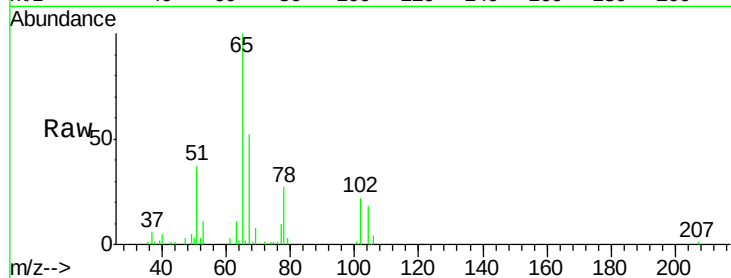
49-93

Tot Ion: 78 Resp: 18597

Ion Ratio Lower Upper

78 100

77 38.0 18.4 27.6#



#50

Toluene-d8

Concen: 47.253 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067161.D

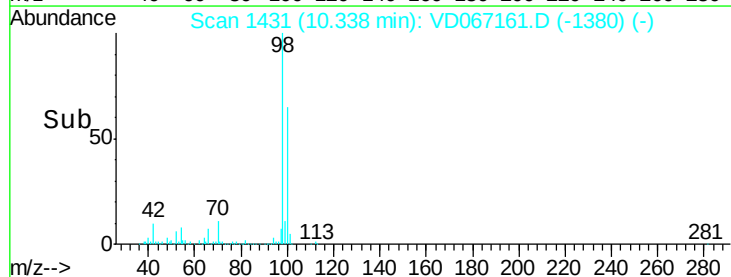
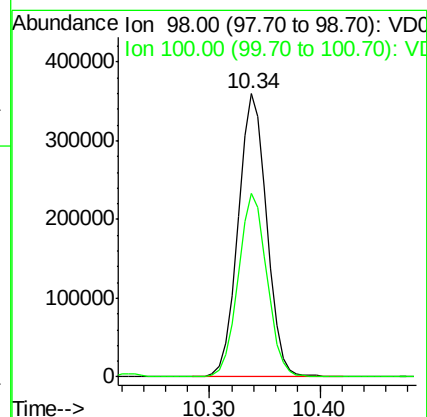
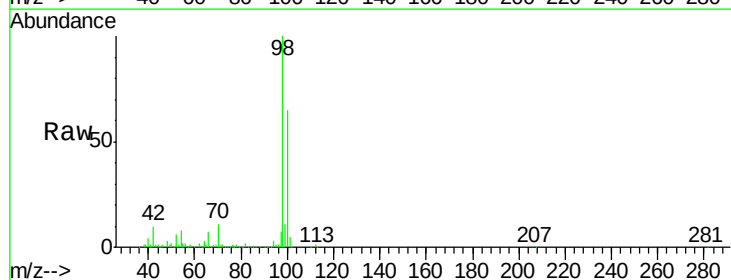
Acq: 07 Oct 2020 19:14

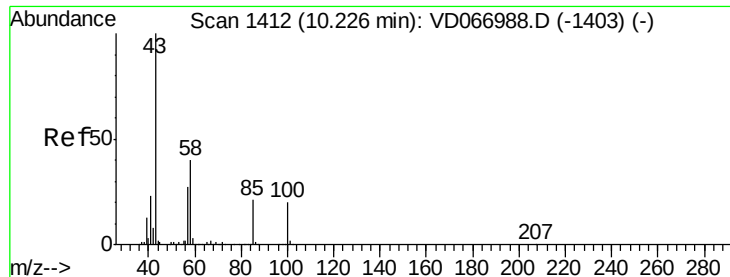
Tgt Ion: 98 Resp: 654290

Ion Ratio Lower Upper

98 100

100 65.2 52.8 79.2





#51

4-Methyl-2-Pentanone

Concen: 26.706 ug/l

RT: 10.23 min Scan# 1412

Delta R.T. 0.00 min

Lab File: VD067161.D

Acq: 07 Oct 2020 19:14

Instrument :

MSVOA_D

ClientSampleId :

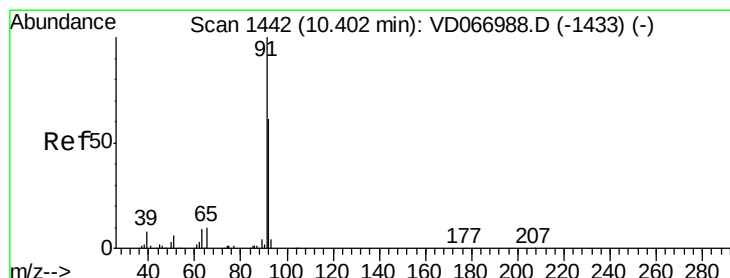
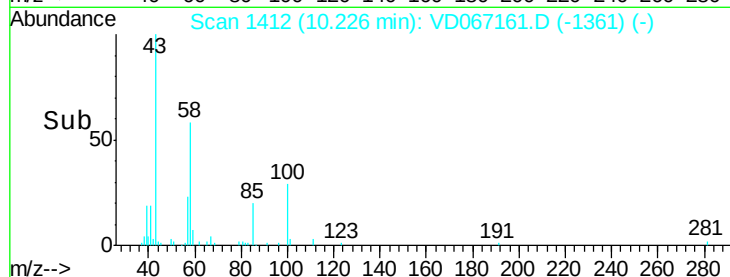
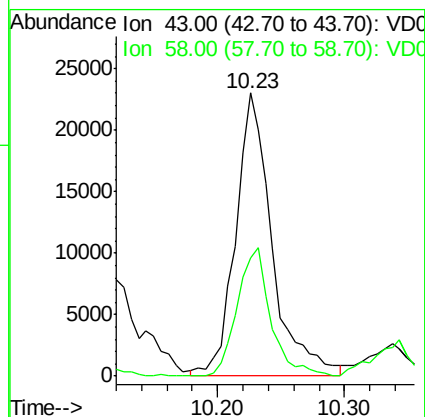
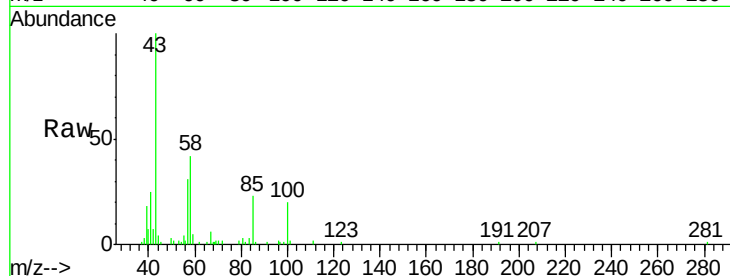
49-93

Tot Ion: 43 Resp: 45930

Ion Ratio Lower Upper

43 100

58 41.5 33.8 50.8



#52

Toluene

Concen: 503.821 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VD067161.D

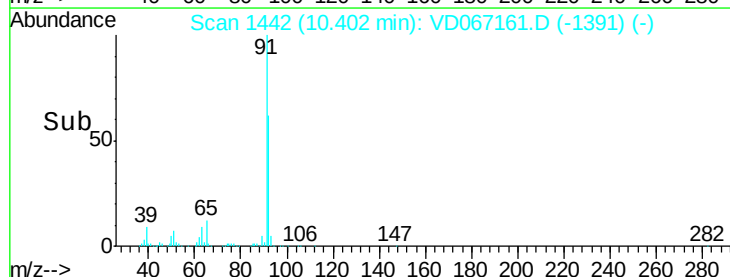
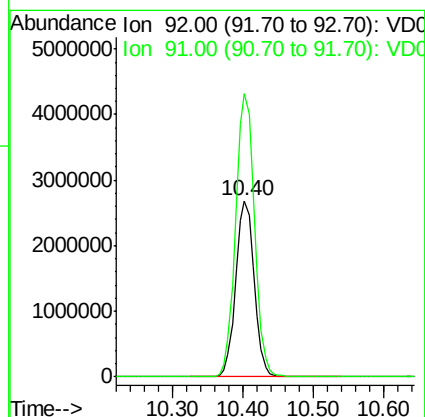
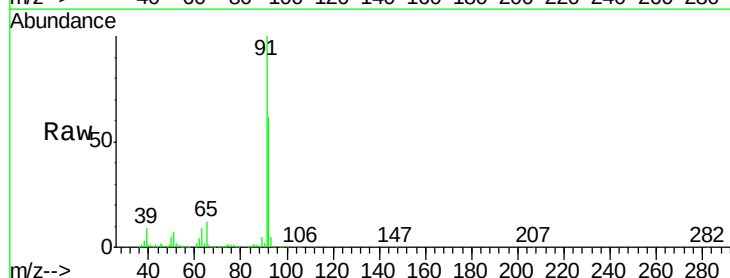
Acq: 07 Oct 2020 19:14

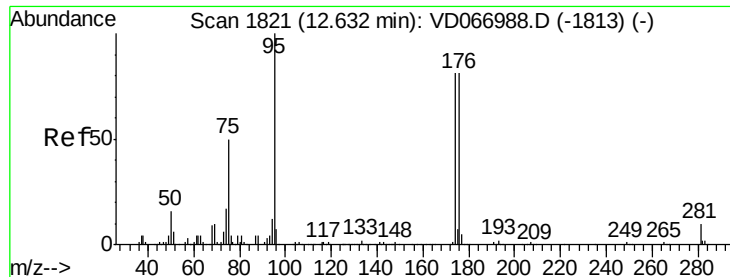
Tgt Ion: 92 Resp: 4877019

Ion Ratio Lower Upper

92 100

91 164.7 135.1 202.7

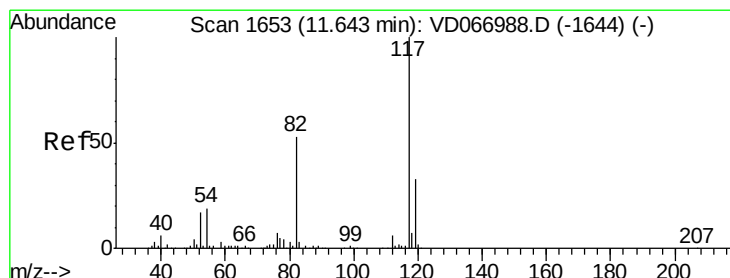
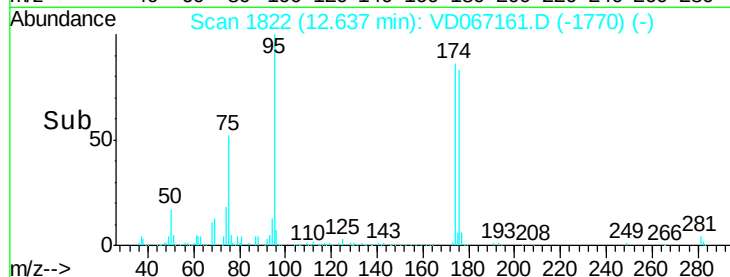
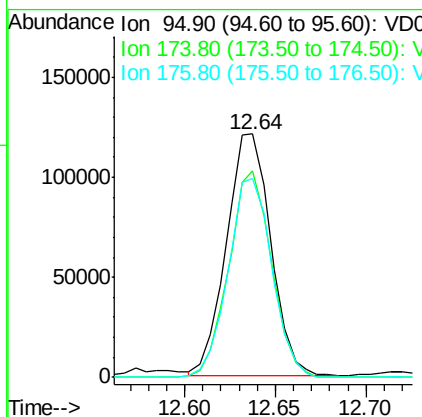
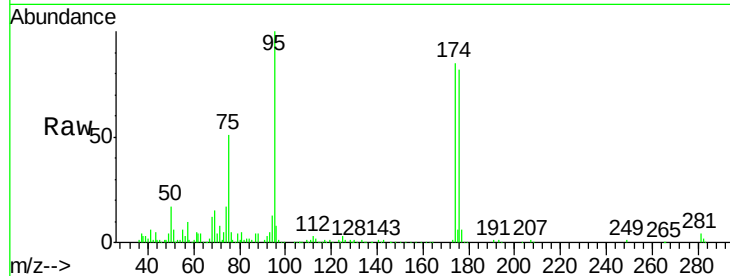




#62
4-Bromofluorobenzene
Concen: 43.804 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.01 min
Lab File: VD067161.D
Acq: 07 Oct 2020 19:14

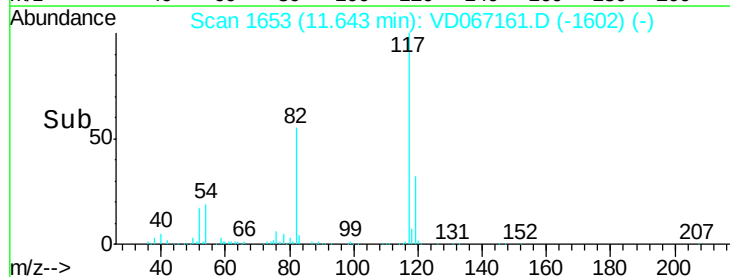
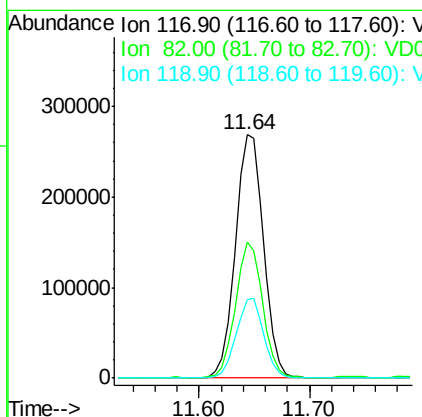
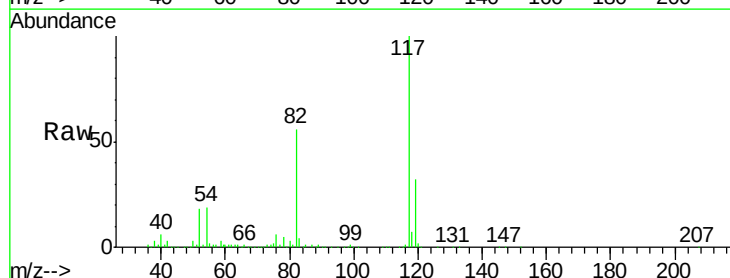
Instrument :
MSVOA_D
ClientSampleId :
49-93

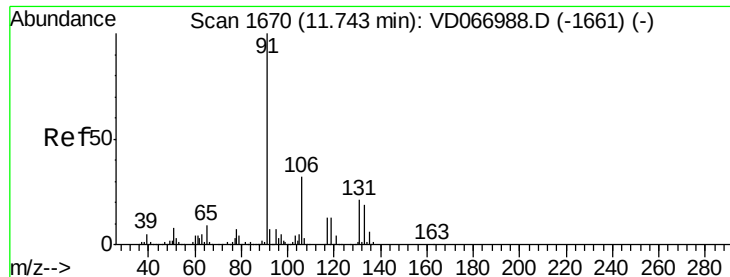
Tot Ion: 95 Resp: 205903
Ion Ratio Lower Upper
95 100
174 82.3 0.0 167.6
176 81.2 0.0 162.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067161.D
Acq: 07 Oct 2020 19:14

Tgt Ion: 117 Resp: 481939
Ion Ratio Lower Upper
117 100
82 55.3 42.6 63.8
119 32.1 26.3 39.5

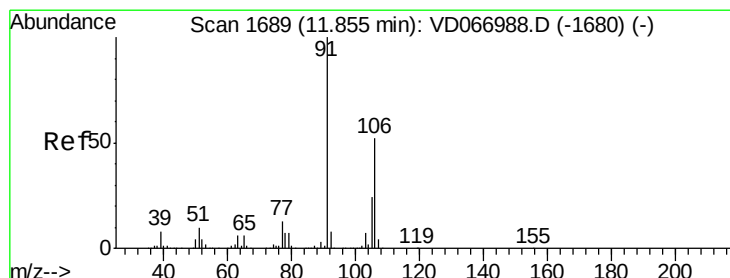
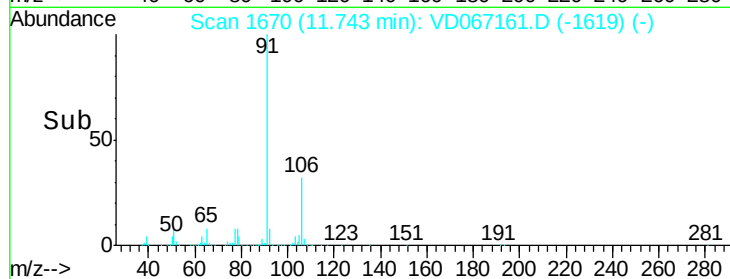
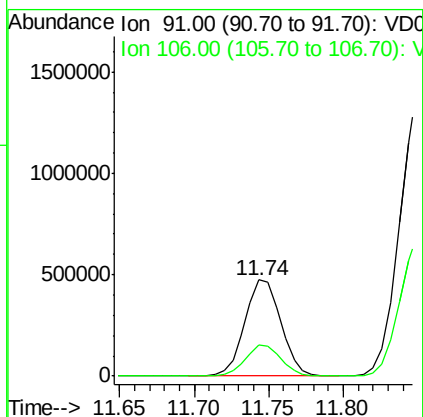
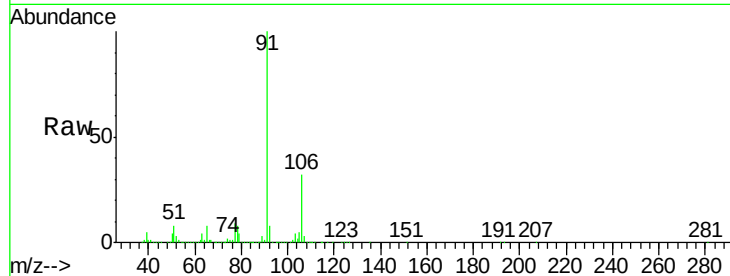




#67
Ethyl Benzene
Concen: 48.341 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD067161.D
Acq: 07 Oct 2020 19:14

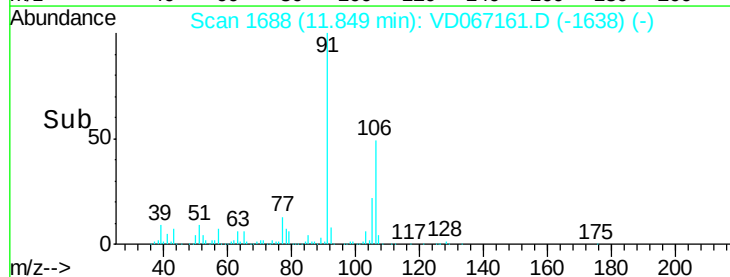
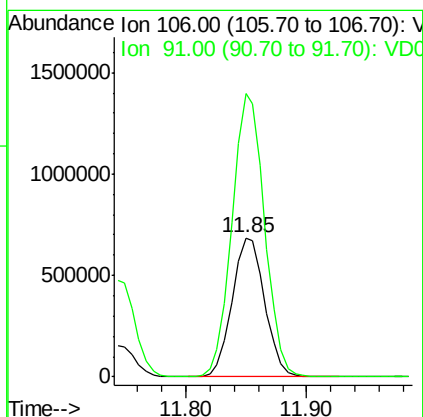
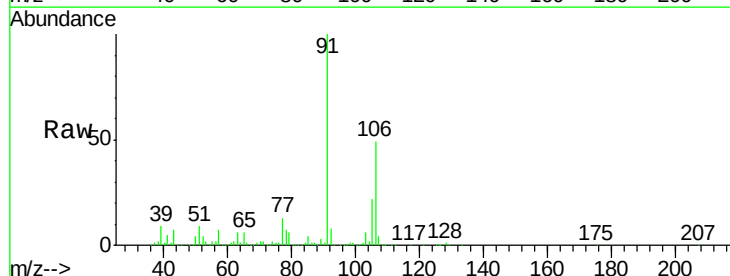
Instrument :
MSVOA_D
ClientSampleId :
49-93

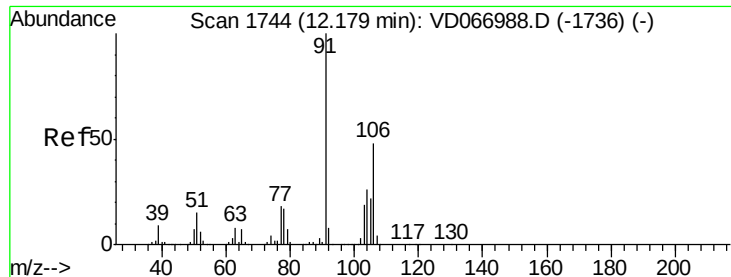
Tot Ion: 91 Resp: 793918
Ion Ratio Lower Upper
91 100
106 31.9 25.4 38.2



#68
m/p-Xylenes
Concen: 201.596 ug/l
RT: 11.85 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VD067161.D
Acq: 07 Oct 2020 19:14

Tgt Ion: 106 Resp: 1290287
Ion Ratio Lower Upper
106 100
91 202.1 158.4 237.6

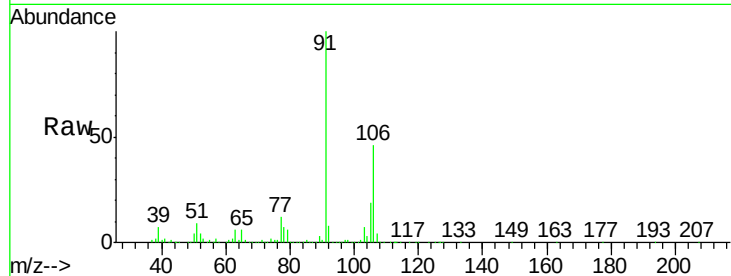




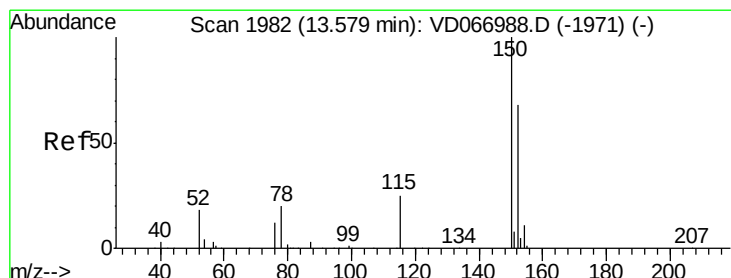
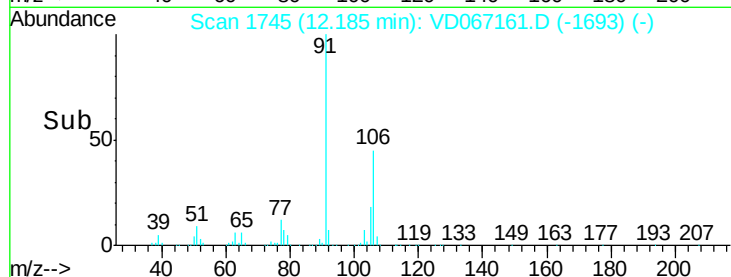
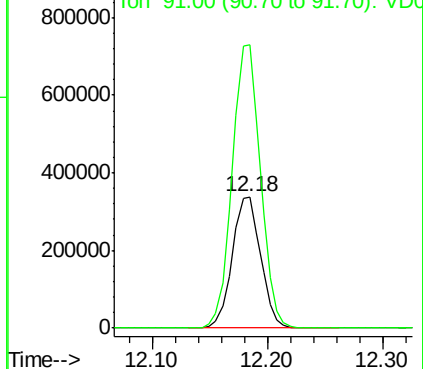
#69
o-Xylene
Concen: 100.440 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.01 min
Lab File: VD067161.D
Acq: 07 Oct 2020 19:14

Instrument :
MSVOA_D
ClientSampled :
49-93

Tot Ion:106 Resp: 574871
Ion Ratio Lower Upper
106 100
91 215.0 102.4 307.2

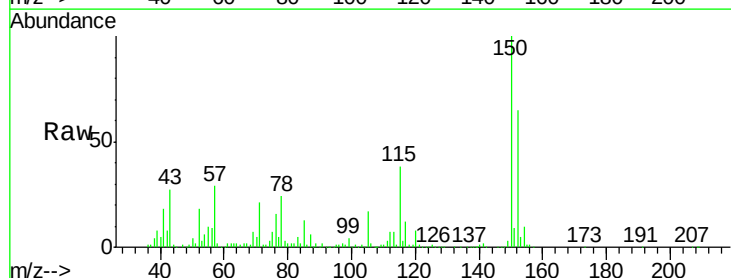


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

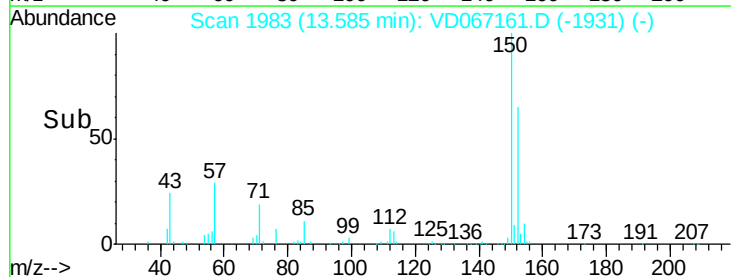
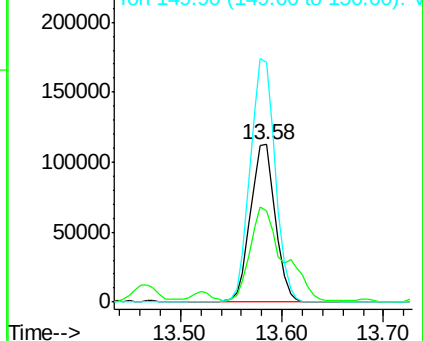


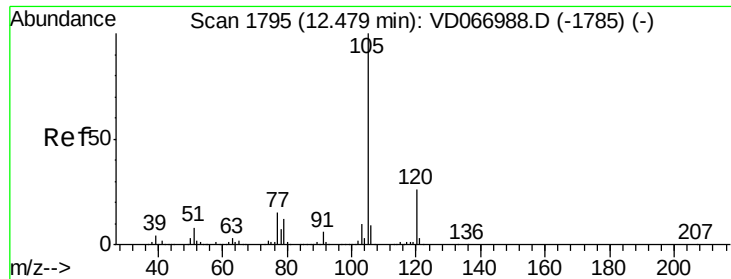
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD067161.D
Acq: 07 Oct 2020 19:14

Tgt Ion:152 Resp: 192352
Ion Ratio Lower Upper
152 100
115 80.3 29.6 88.8
150 154.6 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





#73

Isopropylbenzene

Concen: 12.940 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VD067161.D

Acq: 07 Oct 2020 19:14

Instrument :

MSVOA_D

ClientSampled :

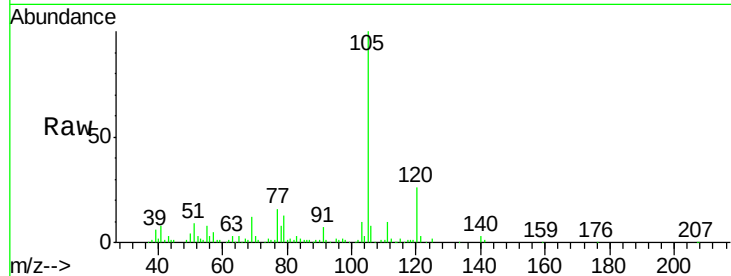
49-93

Tot Ion:105 Resp: 169014

Ion Ratio Lower Upper

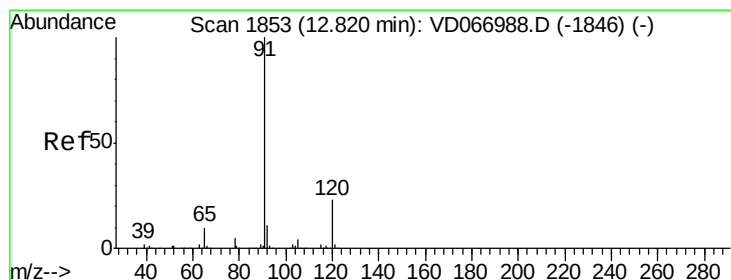
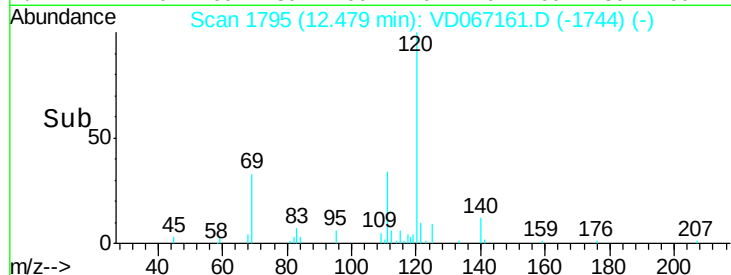
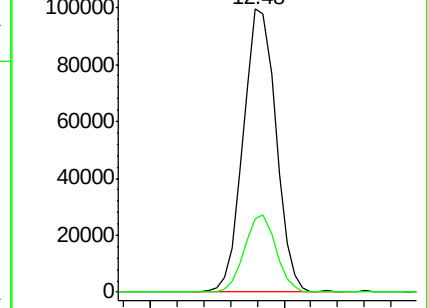
105 100

120 26.2 13.3 39.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 35.273 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.01 min

Lab File: VD067161.D

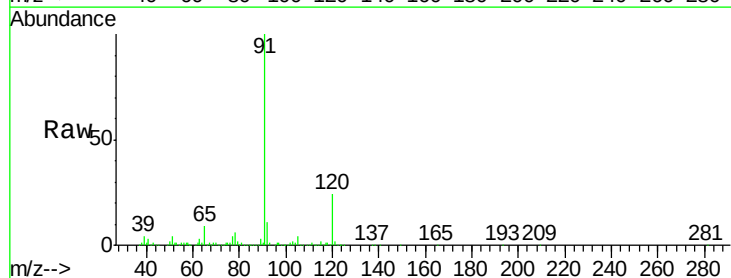
Acq: 07 Oct 2020 19:14

Tgt Ion: 91 Resp: 544462

Ion Ratio Lower Upper

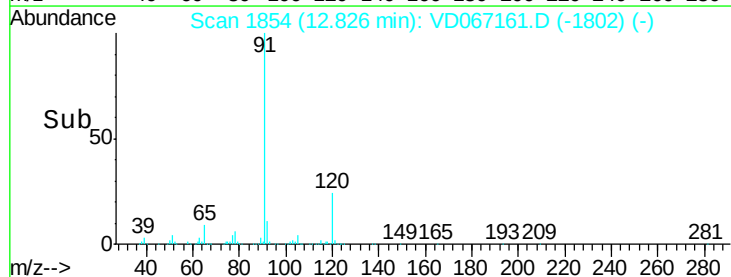
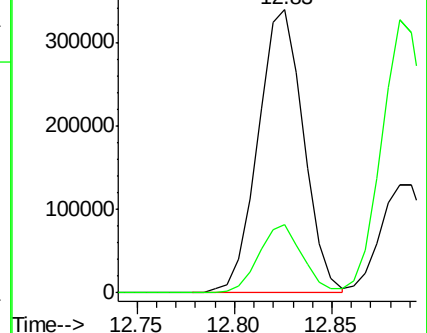
91 100

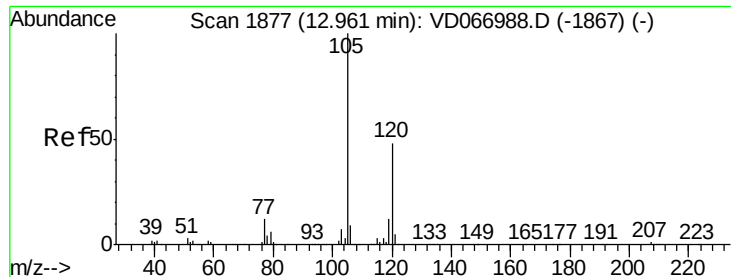
120 23.0 11.6 34.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 95.922 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VD067161.D

Acq: 07 Oct 2020 19:14

Instrument :

MSVOA_D

ClientSampled :

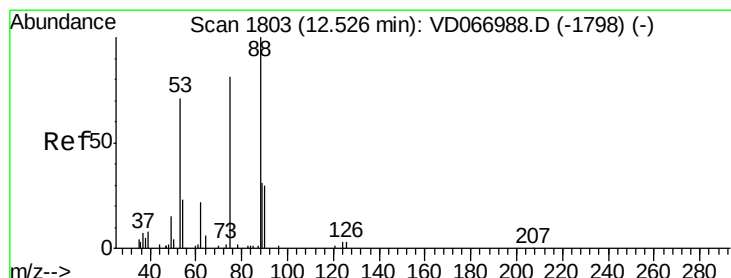
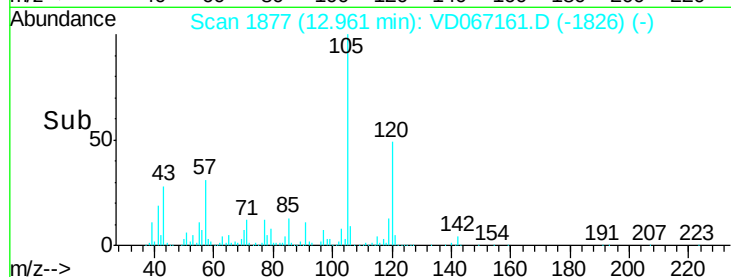
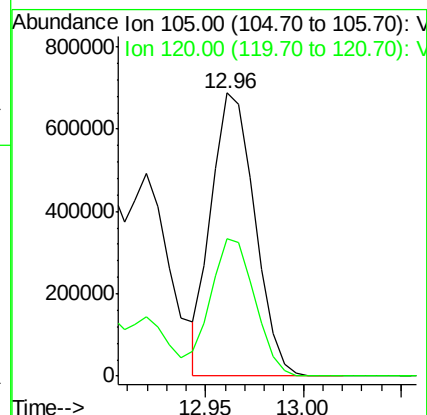
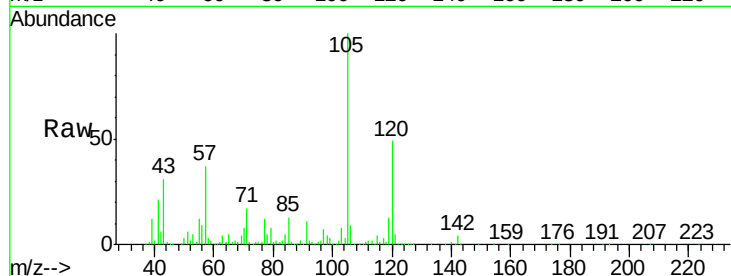
49-93

Tot Ion:105 Resp: 1058501

Ion Ratio Lower Upper

105 100

120 50.7 24.6 74.0



#81

trans-1,4-Dichloro-2-butene

Concen: 156.763 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.11 min

Lab File: VD067161.D

Acq: 07 Oct 2020 19:14

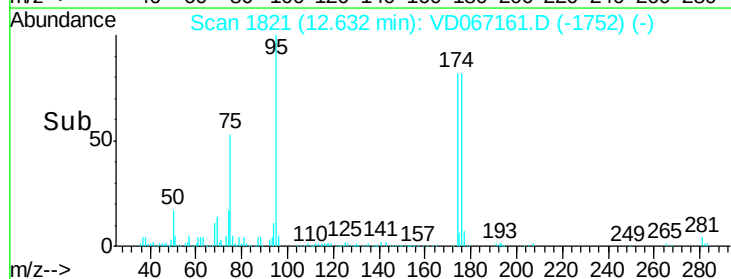
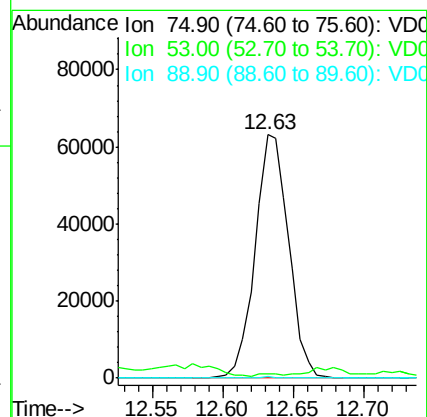
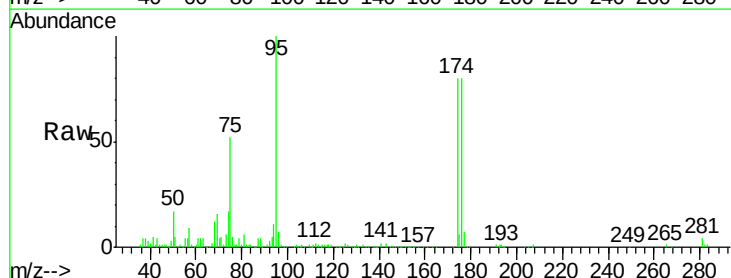
Tgt Ion: 75 Resp: 105349

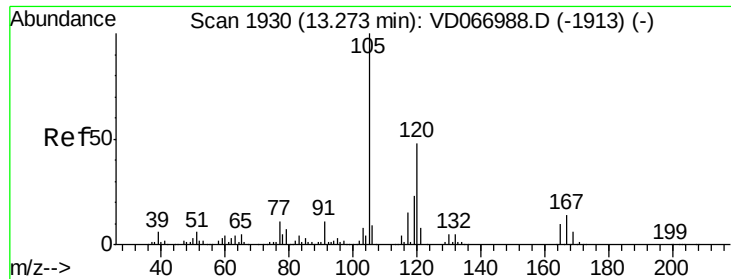
Ion Ratio Lower Upper

75 100

53 0.7 73.8 110.6#

89 0.0 38.9 58.3#

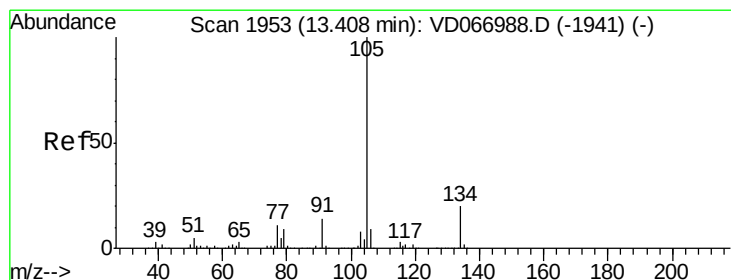
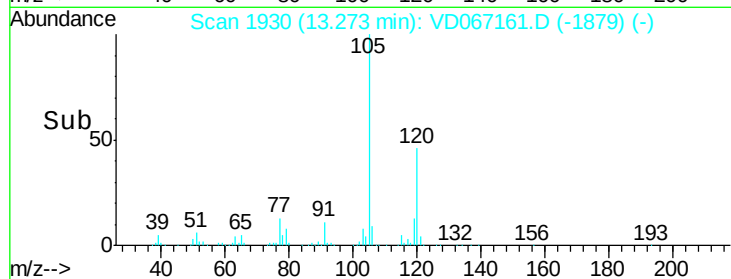
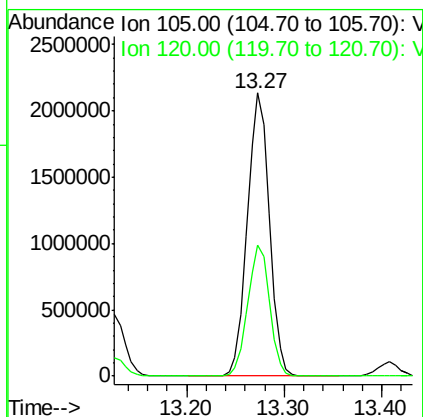
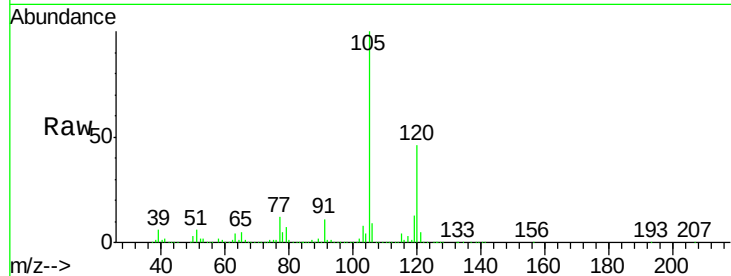




#84
 1,2,4-Trimethylbenzene
 Concen: 306.910 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VD067161.D
 Acq: 07 Oct 2020 19:14

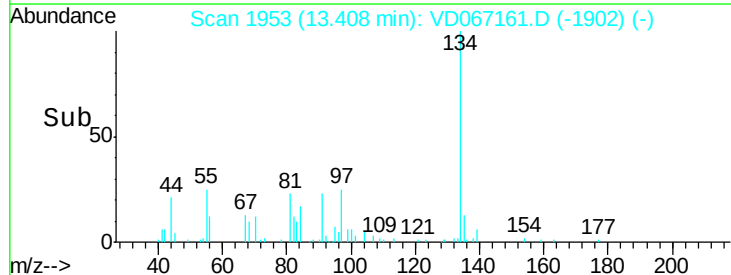
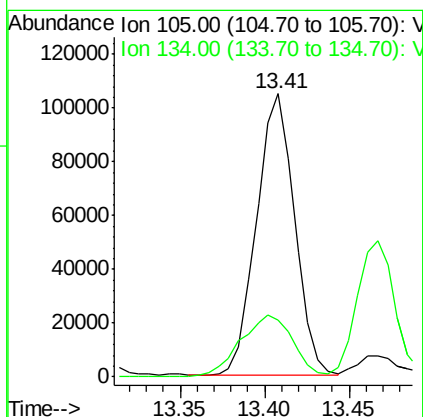
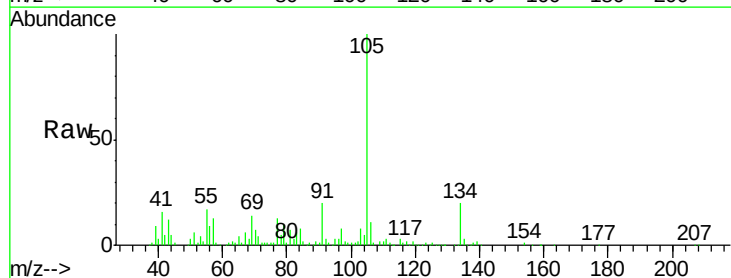
Instrument :
 MSVOA_D
 ClientSampled :
 49-93

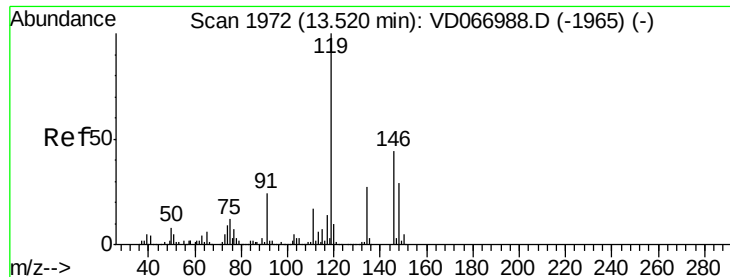
Tot Ion:105 Resp: 3379845
 Ion Ratio Lower Upper
 105 100
 120 46.1 23.3 69.8



#85
 sec-Butylbenzene
 Concen: 12.572 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.00 min
 Lab File: VD067161.D
 Acq: 07 Oct 2020 19:14

Tgt Ion:105 Resp: 164524
 Ion Ratio Lower Upper
 105 100
 134 30.2 10.3 30.8





#86

p-Isopropyltoluene

Concen: 12.593 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VD067161.D

Acq: 07 Oct 2020 19:14

Instrument :

MSVOA_D

ClientSampleId :

49-93

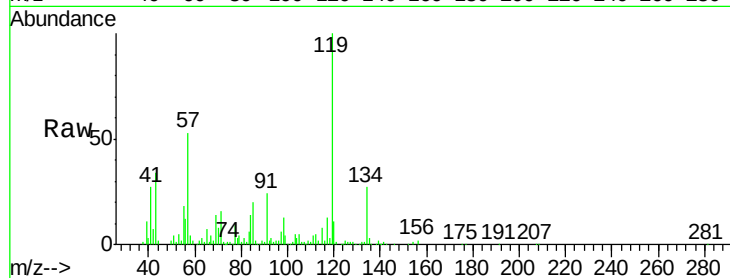
Tot Ion:119 Resp: 152784

Ion Ratio Lower Upper

119 100

134 25.8 13.1 39.1

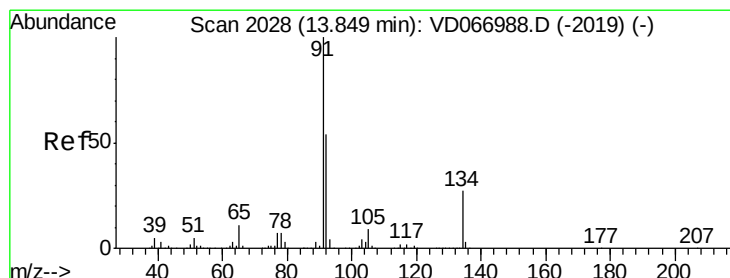
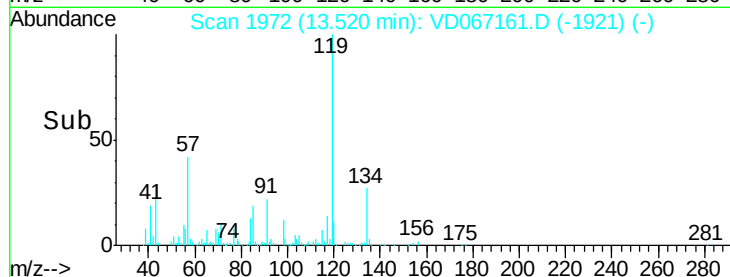
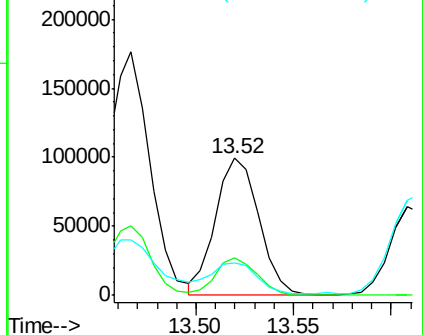
91 26.0 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#89

n-Butylbenzene

Concen: 15.568 ug/l

RT: 13.85 min Scan# 2028

Delta R.T. 0.00 min

Lab File: VD067161.D

Acq: 07 Oct 2020 19:14

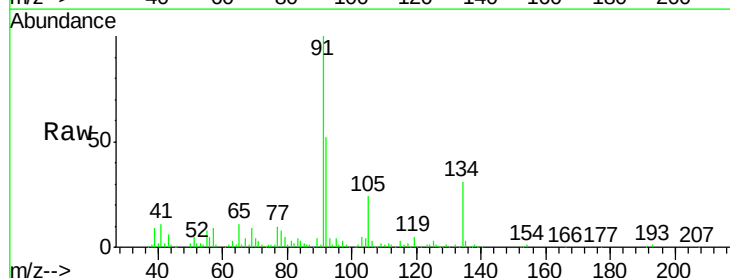
Tgt Ion: 91 Resp: 172617

Ion Ratio Lower Upper

91 100

92 64.8 27.1 81.2

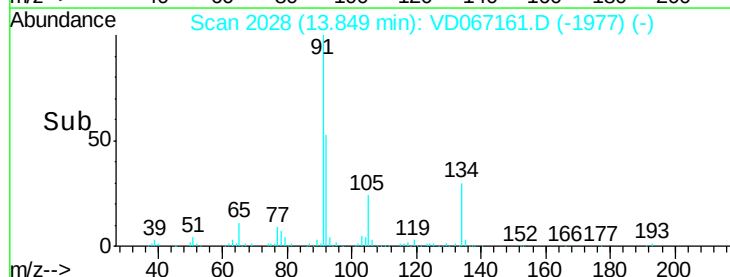
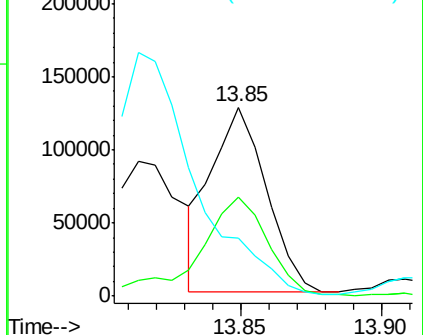
134 0.0 13.6 40.8#

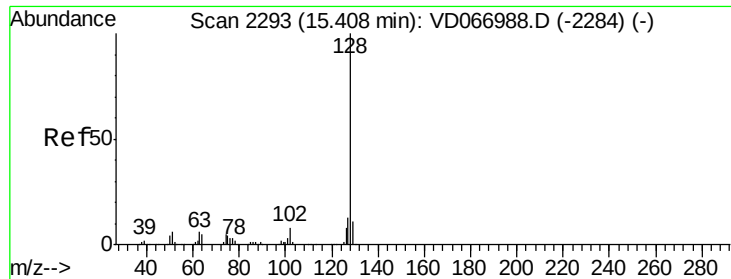


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 51.107 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.01 min

Lab File: VD067161.D

Acq: 07 Oct 2020 19:14

Instrument :

MSVOA_D

ClientSampleId :

49-93

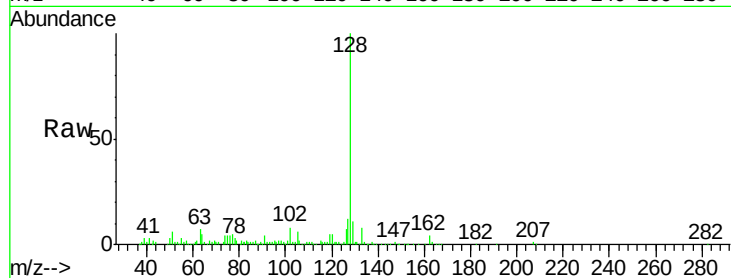
Tot Ion:128 Resp: 295810

Ion Ratio Lower Upper

128 100

127 13.7 10.3 15.5

129 11.6 8.6 13.0



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

