

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112019\
 Data File : VD064309.D
 Acq On : 20 Nov 2019 13:09
 Operator : VA/SY
 Sample : K5818-03RE
 Misc : 5.09G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 40180RE

Quant Time: Nov 20 13:43:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

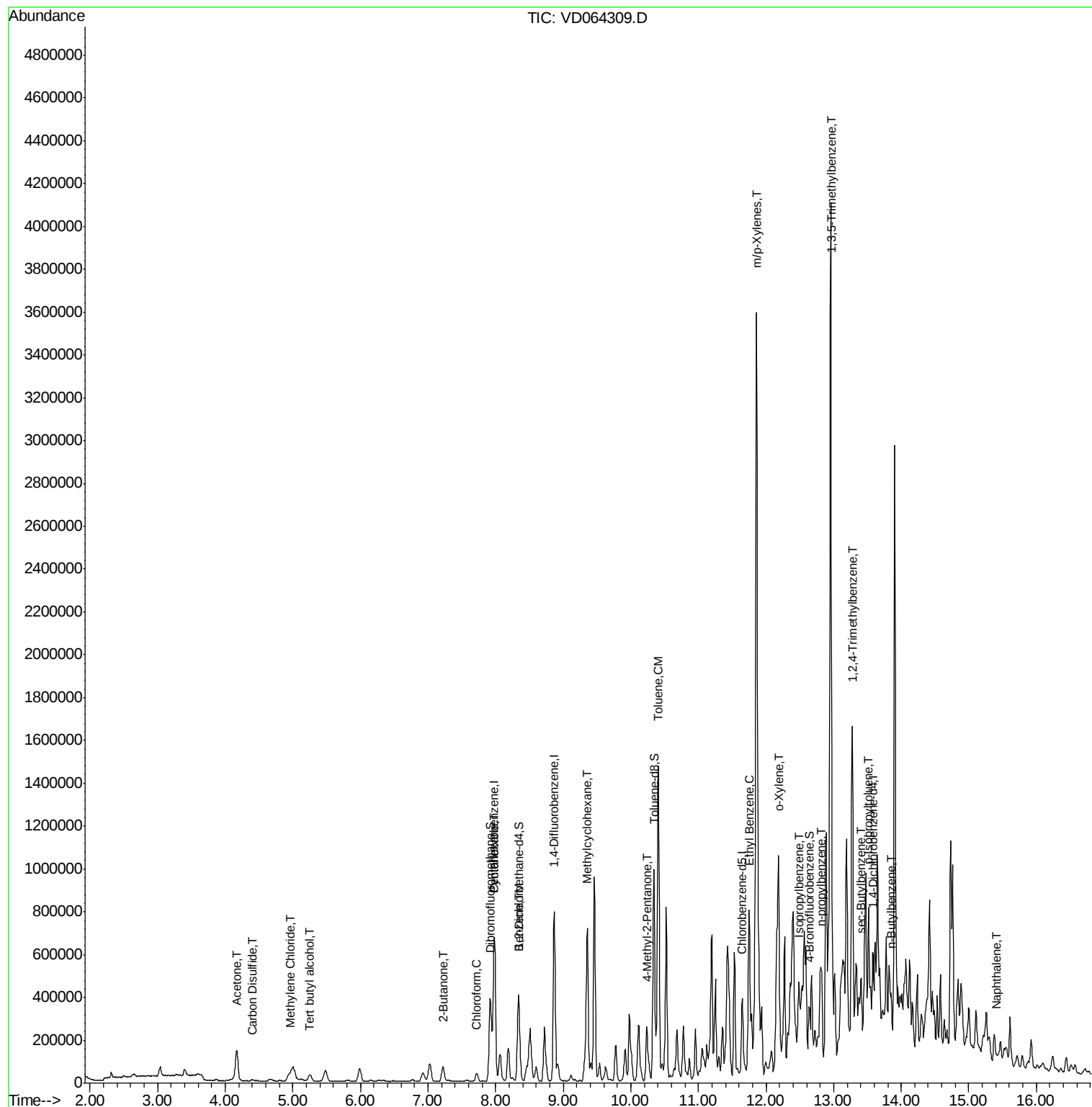
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	399060	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	674197	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	205349	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	26152	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	272186	82.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	165.86%	
35) Dibromofluoromethane	7.92	113	263281	68.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	136.06%	
50) Toluene-d8	10.34	98	431659	29.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	59.14%	
62) 4-Bromofluorobenzene	12.64	95	56352	11.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	22.30%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.25	59	58388	254.707	ug/l	100
16) Acetone	4.17	43	264157	339.745	ug/l	97
17) Carbon Disulfide	4.40	76	15546	1.489	ug/l	99
20) Methylene Chloride	4.96	84	14848	3.781	ug/l	89
25) 2-Butanone	7.22	43	48925	48.705	ug/l	99
30) Chloroform	7.71	83	27508	4.210	ug/l	98
31) Cyclohexane	7.99	56	122946	19.086	ug/l	97
39) Methylcyclohexane	9.36	83	299248	38.008	ug/l	91
40) Benzene	8.35	78	111924	6.582	ug/l	96
51) 4-Methyl-2-Pentanone	10.23	43	163708	63.163	ug/l	100
52) Toluene	10.41	92	622063	55.630	ug/l	99
67) Ethyl Benzene	11.75	91	512422	67.841	ug/l	99
68) m/p-Xylenes	11.86	106	598844	206.841	ug/l	99
69) o-Xylene	12.18	106	232539	86.603	ug/l	97
73) Isopropylbenzene	12.48	105	120795	62.929	ug/l	99
78) n-propylbenzene	12.83	91	282586	128.852	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	279904	177.458	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	845499	542.961	ug/l	99
85) sec-Butylbenzene	13.41	105	127169	68.077	ug/l	85
86) p-Isopropyltoluene	13.53	119	174129	98.051	ug/l	97
89) n-Butylbenzene	13.85	91	131971	82.254	ug/l #	71
95) Naphthalene	15.41	128	23455	25.315	ug/l #	88

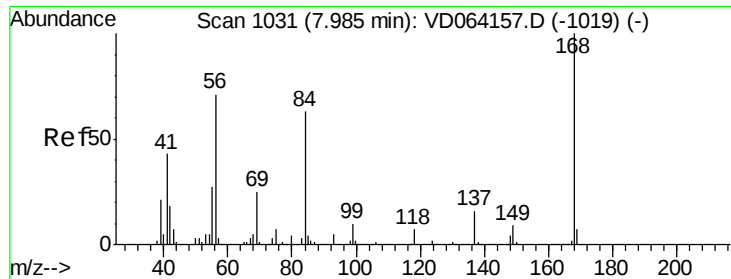
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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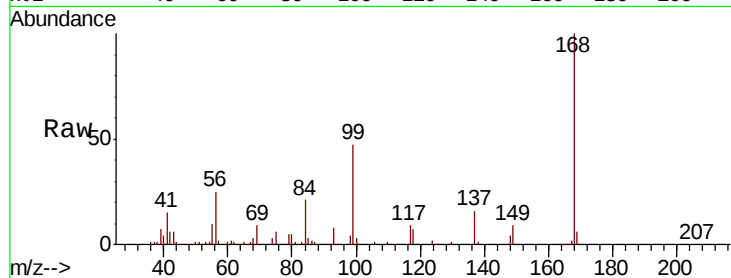




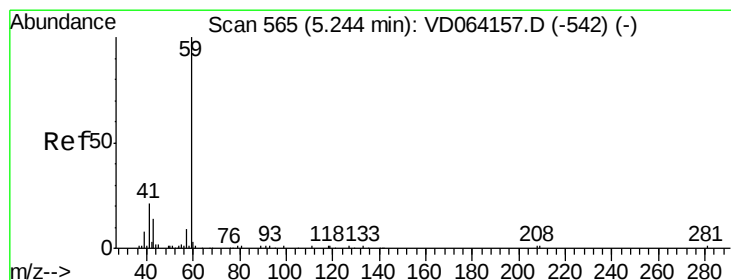
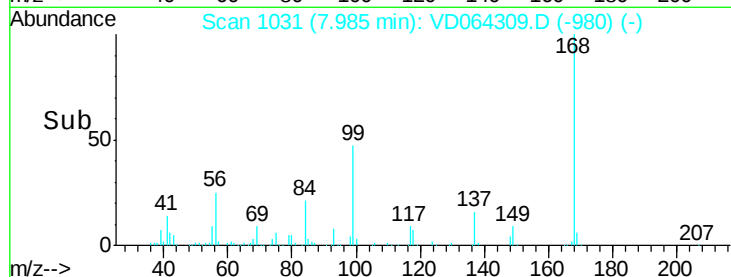
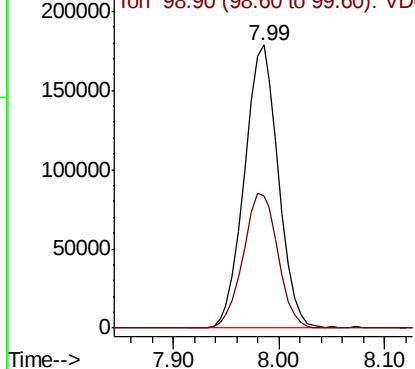
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
40180RE

Tot Ion:168 Resp: 399060
Ion Ratio Lower Upper
168 100
99 46.7 41.6 62.4

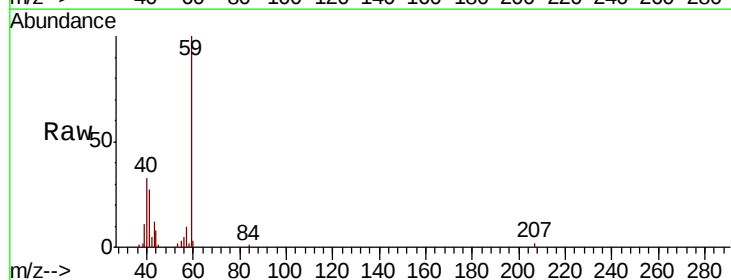


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VDC

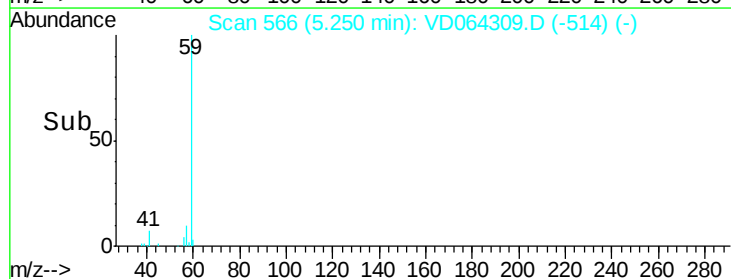
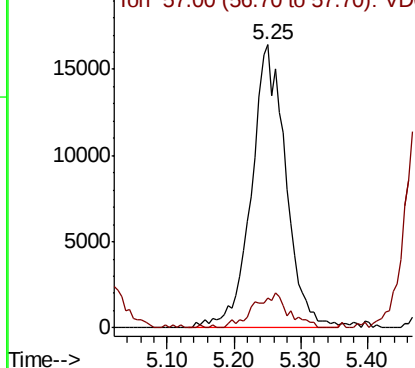


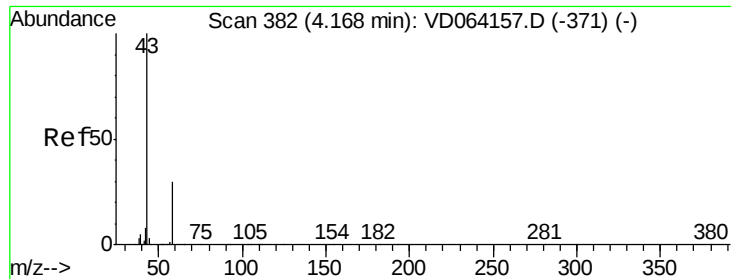
#11
Tert butyl alcohol
Concen: 254.707 ug/l
RT: 5.25 min Scan# 566
Delta R.T. 0.01 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Tgt Ion: 59 Resp: 58388
Ion Ratio Lower Upper
59 100
57 12.0 9.4 14.2



Abundance Ion 59.00 (58.70 to 59.70): VDC
Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 339.745 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

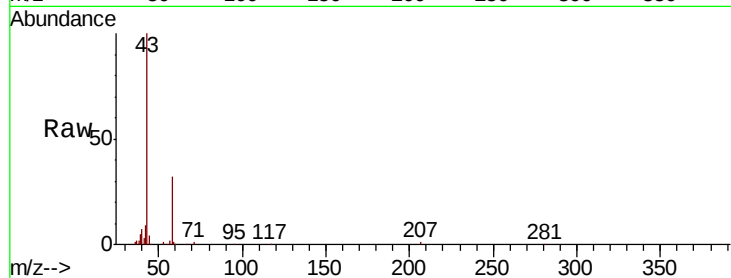
40180RE

Tot Ion: 43 Resp: 264157

Ion Ratio Lower Upper

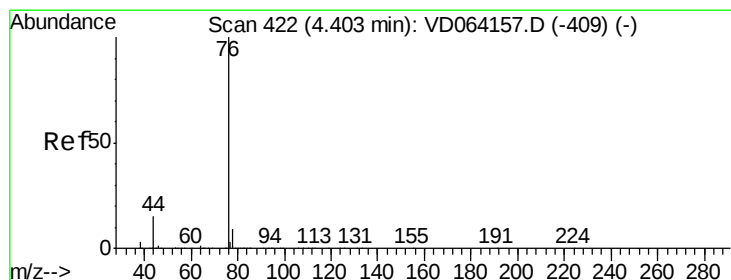
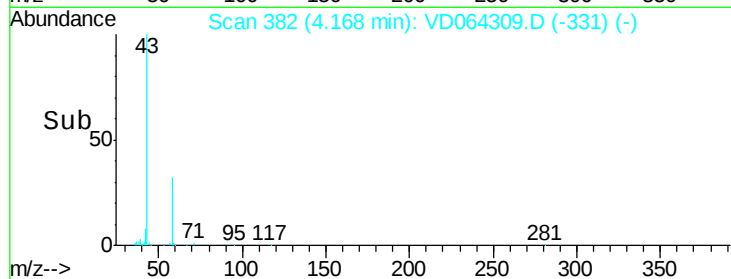
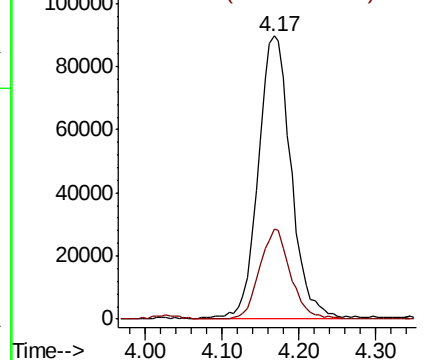
43 100

58 31.7 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#17

Carbon Disulfide

Concen: 1.489 ug/l

RT: 4.40 min Scan# 422

Delta R.T. 0.00 min

Lab File: VD064309.D

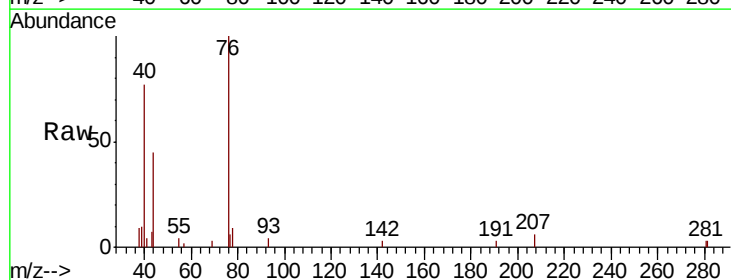
Acq: 20 Nov 2019 13:09

Tgt Ion: 76 Resp: 15546

Ion Ratio Lower Upper

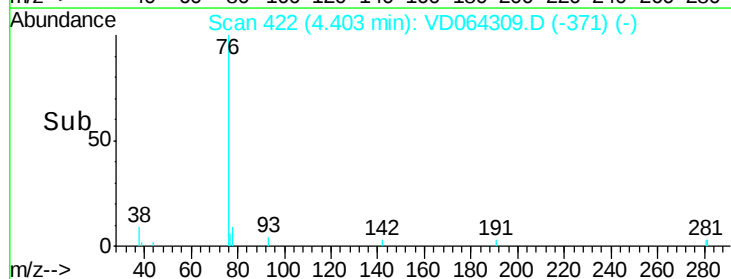
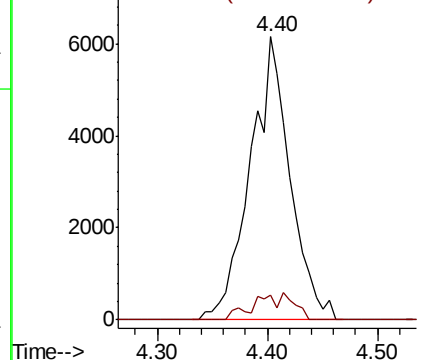
76 100

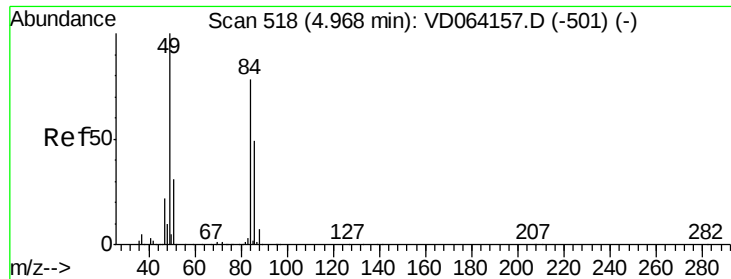
78 8.6 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

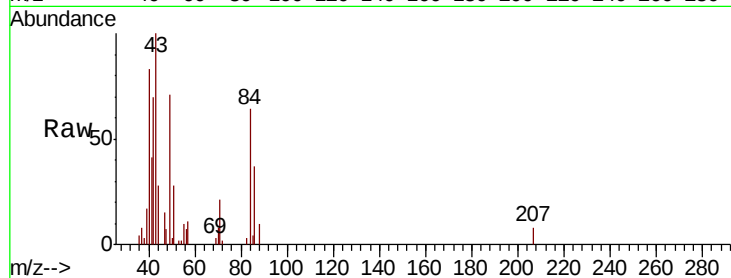




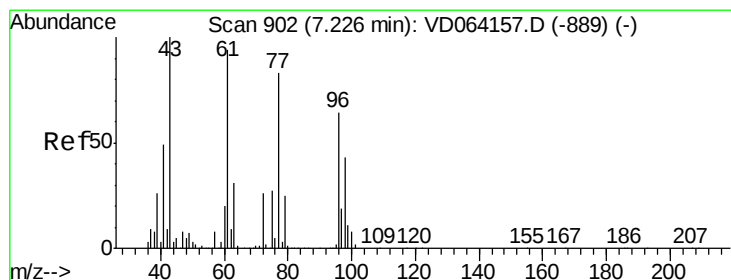
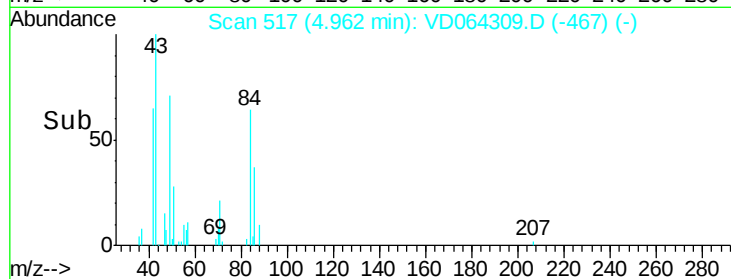
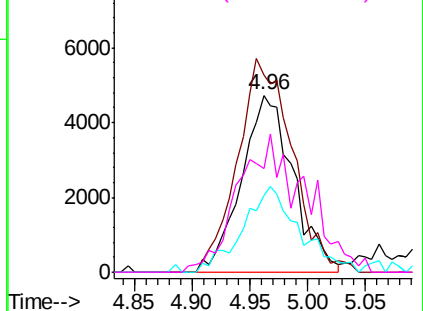
#20
Methvlene Chloride
Concen: 3.781 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
40180RE

Tot Ion:	84	Resp:	14848
Ion	Ratio	Lower	Upper
84	100		
49	111.4	102.1	153.1
51	43.2	32.2	48.2
86	54.6	49.9	74.9

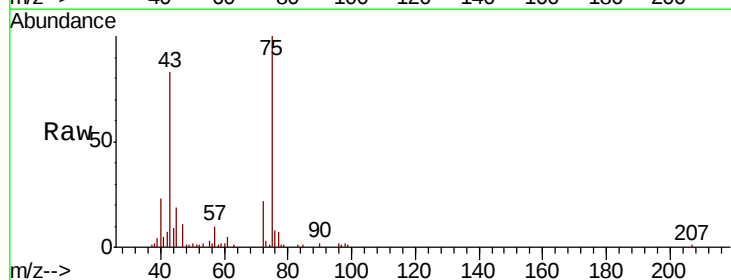


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

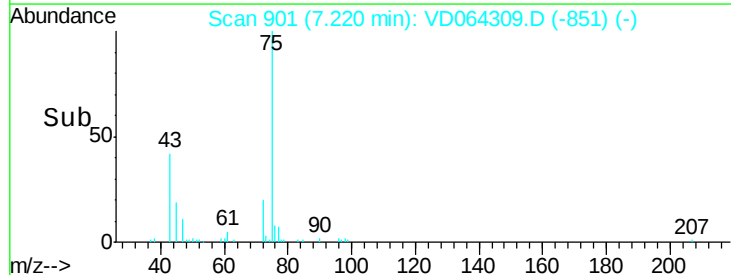
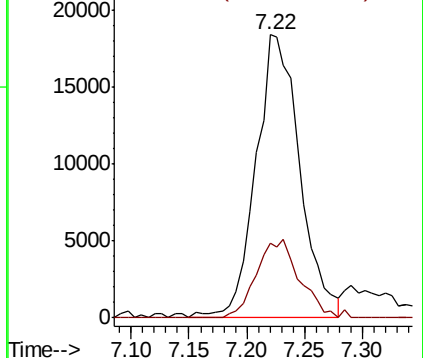


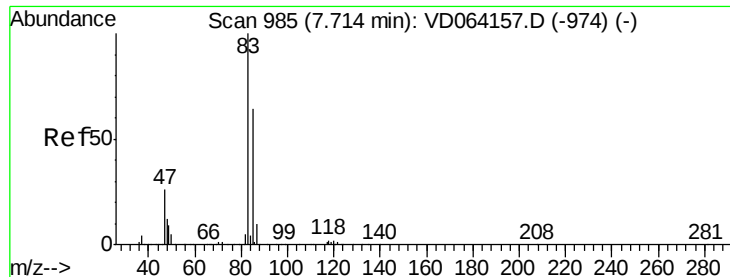
#25
2-Butanone
Concen: 48.705 ug/l
RT: 7.22 min Scan# 901
Delta R.T. -0.01 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Tgt Ion:	43	Resp:	48925
Ion	Ratio	Lower	Upper
43	100		
72	26.4	20.6	30.8



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC





#30

Chloroform

Concen: 4.210 ug/l

RT: 7.71 min Scan# 984

Delta R.T. -0.01 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

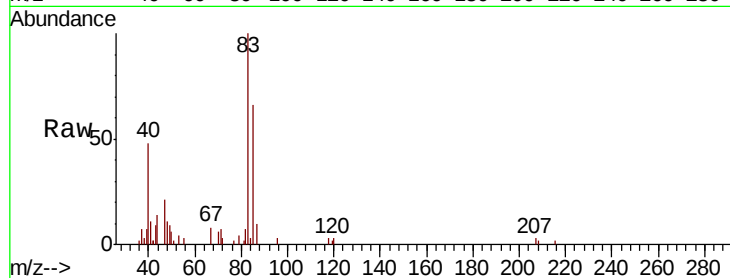
40180RE

Tot Ion: 83 Resp: 27508

Ion Ratio Lower Upper

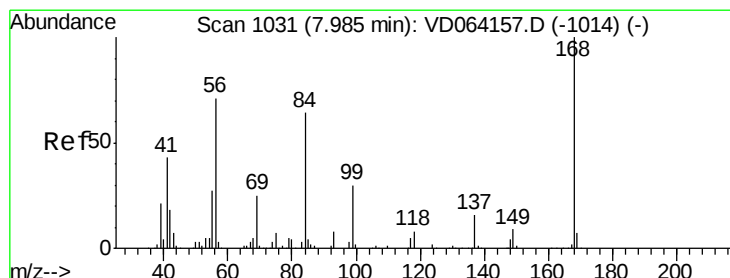
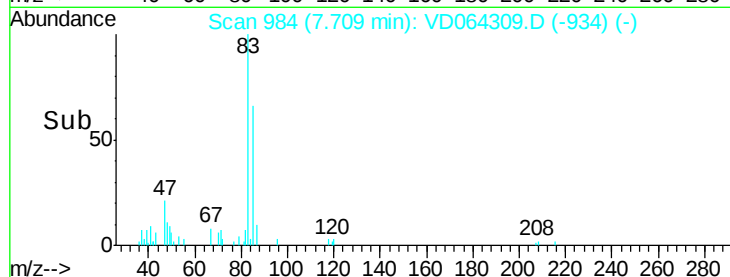
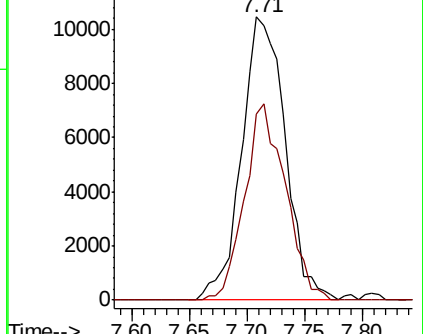
83 100

85 65.5 51.4 77.0



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC



#31

Cyclohexane

Concen: 19.086 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

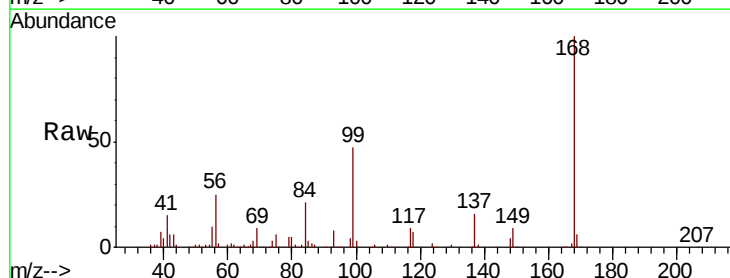
Tgt Ion: 56 Resp: 122946

Ion Ratio Lower Upper

56 100

69 35.3 28.2 42.4

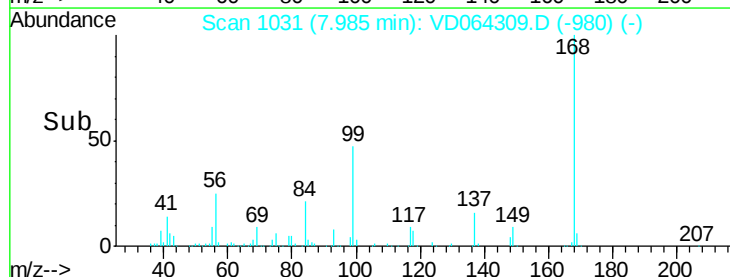
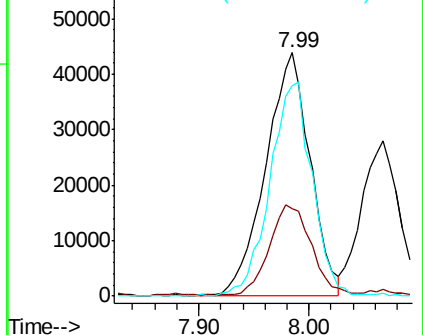
84 86.3 71.8 107.6

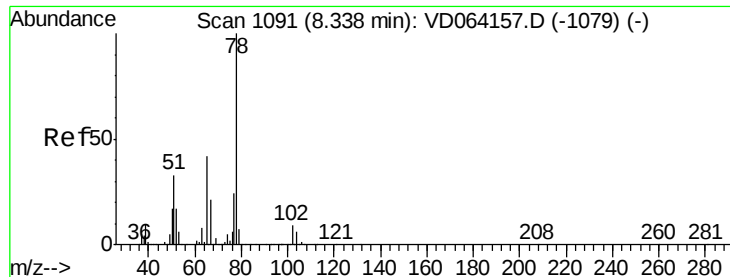


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

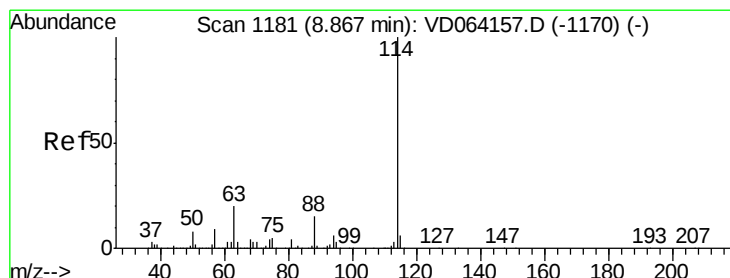
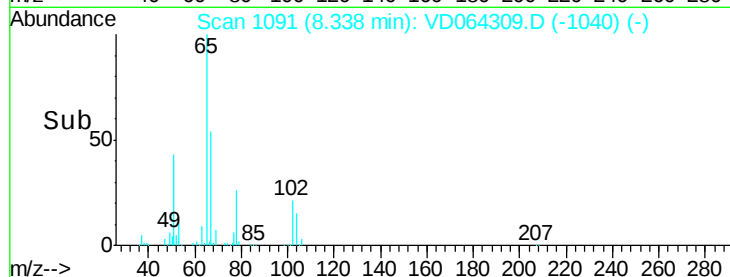
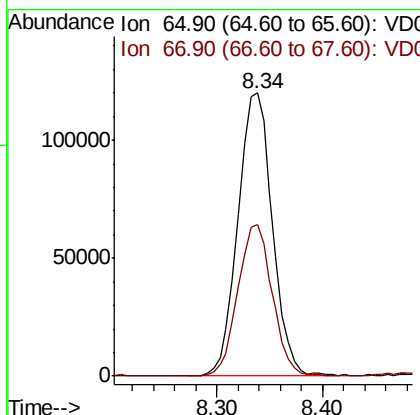
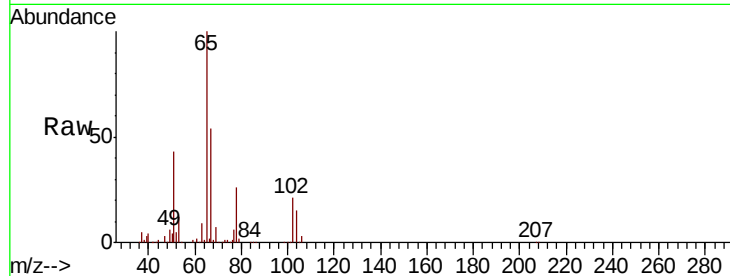




#33
 1,2-Dichloroethane-d4
 Concen: 82.932 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

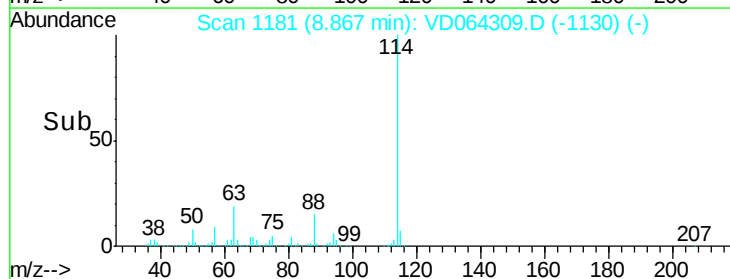
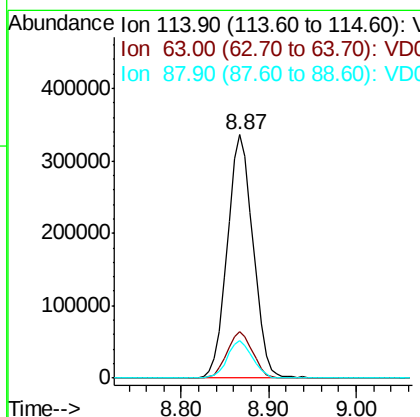
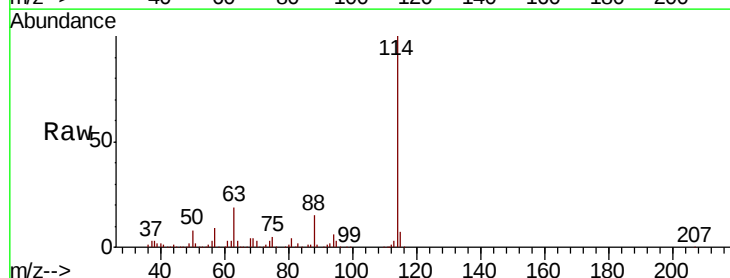
Instrument :
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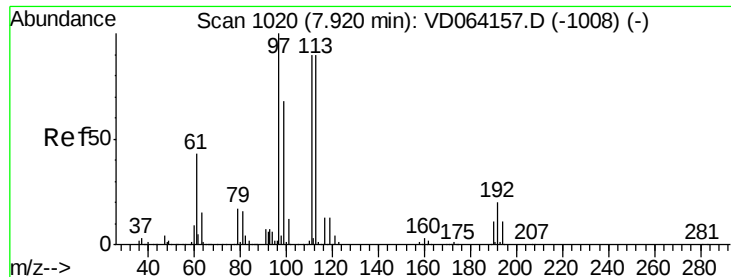
Tot Ion: 65 Resp: 272186
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

Tgt Ion: 114 Resp: 674197
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 40.0
 88 15.3 0.0 30.2

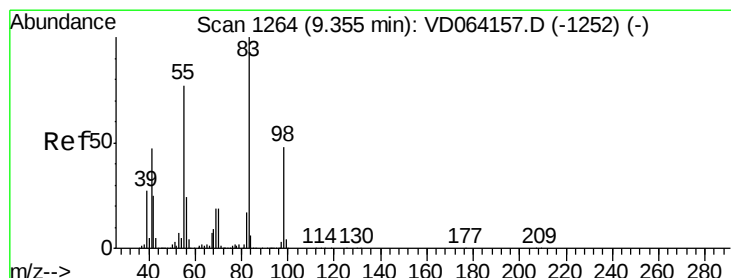
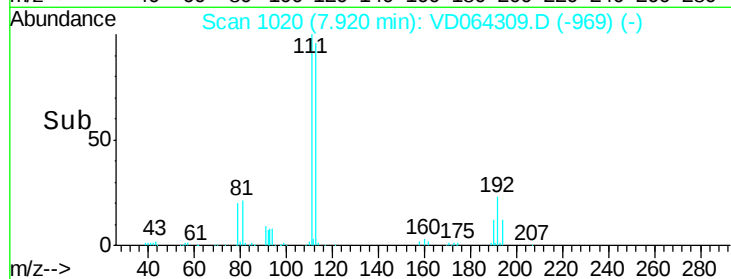
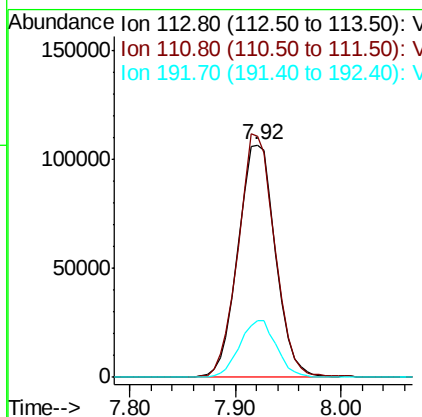
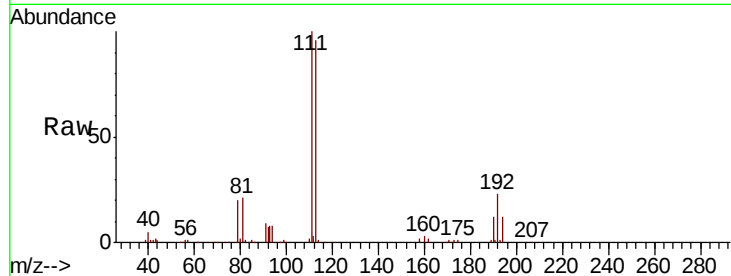




#35
 Dibromofluoromethane
 Concen: 68.031 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

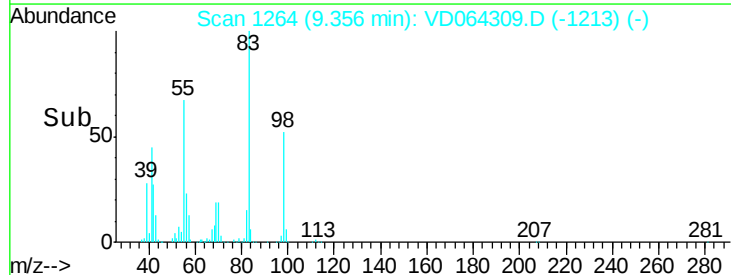
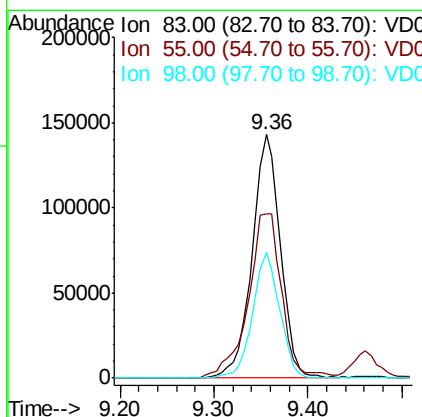
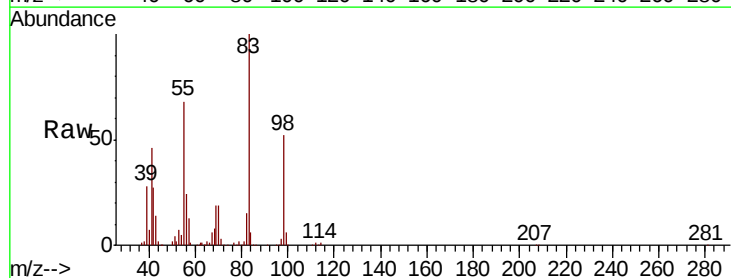
Instrument :
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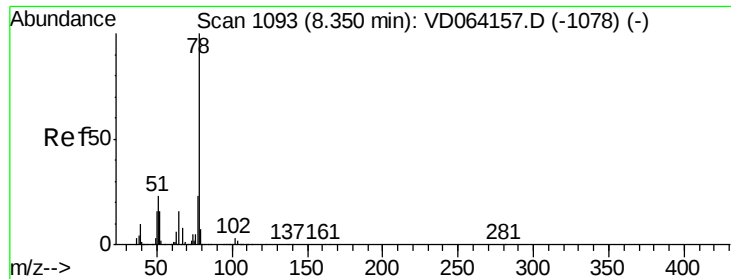
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.5	122.3
192	23.8	18.8	28.2



#39
 Methylcyclohexane
 Concen: 38.008 ug/l
 RT: 9.36 min Scan# 1264
 Delta R.T. 0.00 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
83	100		
55	67.3	61.7	92.5
98	51.6	38.6	58.0





#40

Benzene

Concen: 6.582 ug/l

RT: 8.35 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

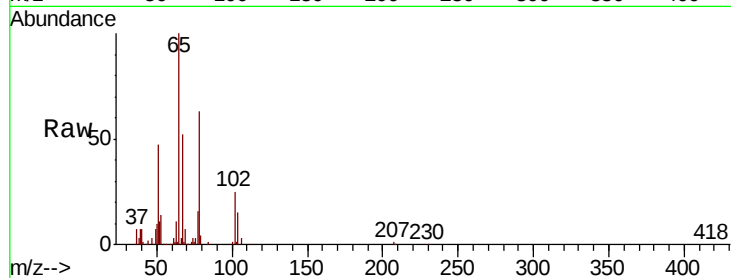
40180RE

Tot Ion: 78 Resp: 111924

Ion Ratio Lower Upper

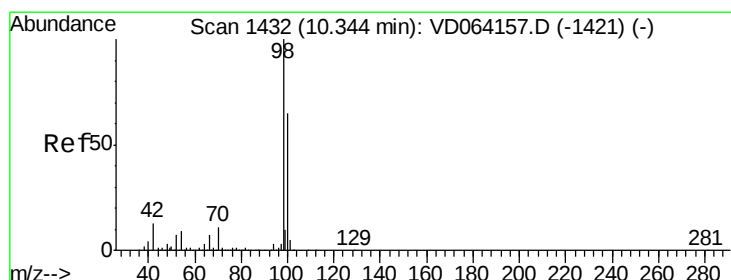
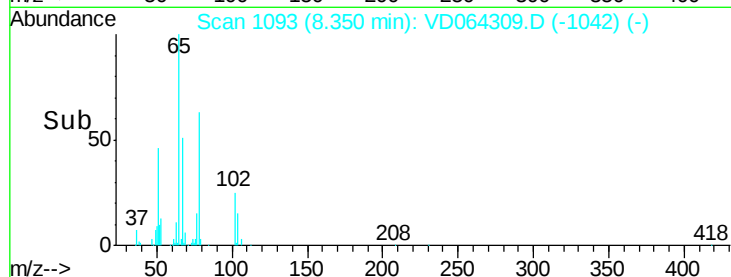
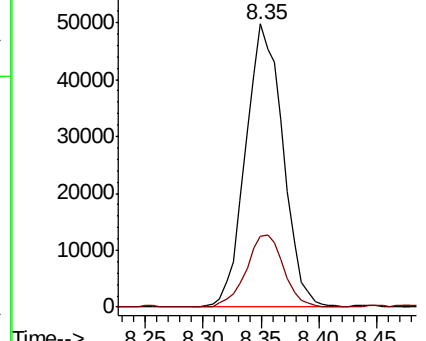
78 100

77 25.2 18.6 28.0



Abundance Ion 78.00 (77.70 to 78.70): VDC

Ion 77.00 (76.70 to 77.70): VDC



#50

Toluene-d8

Concen: 29.567 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064309.D

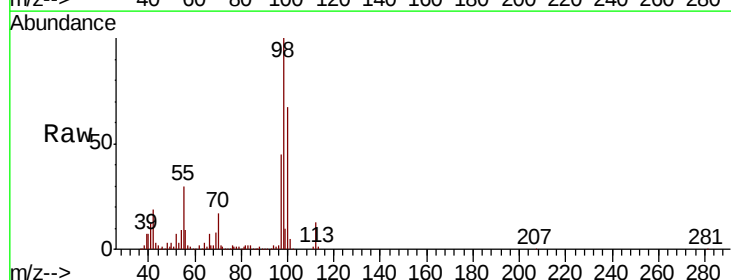
Acq: 20 Nov 2019 13:09

Tgt Ion: 98 Resp: 431659

Ion Ratio Lower Upper

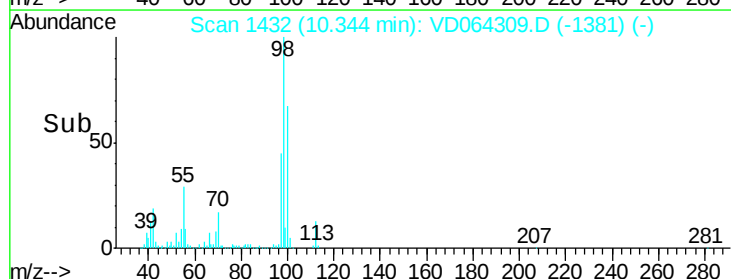
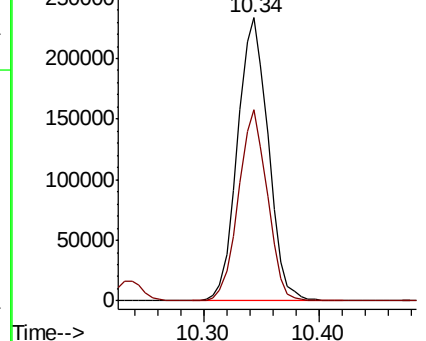
98 100

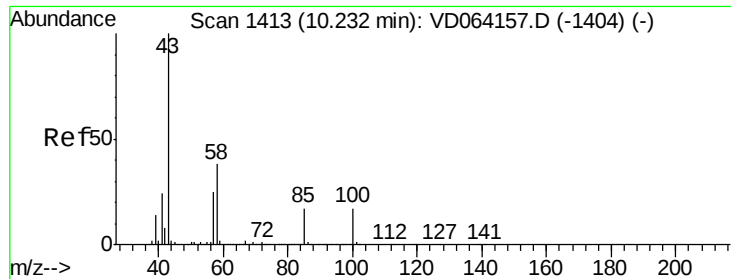
100 63.0 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 63.163 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

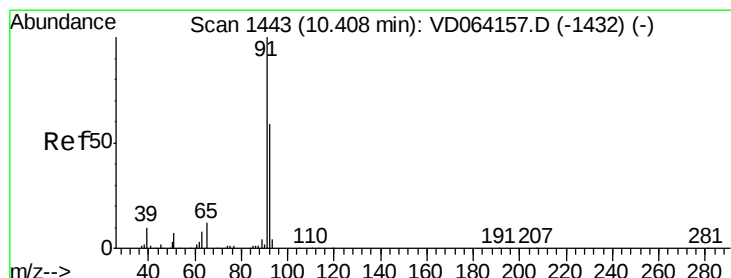
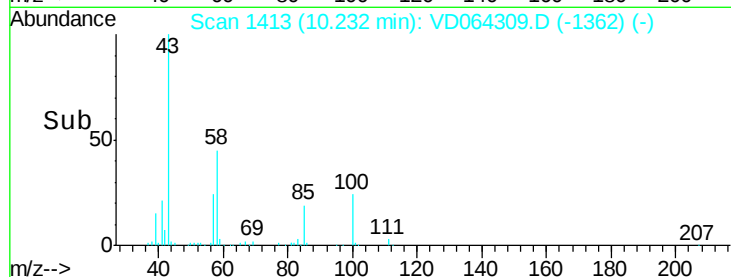
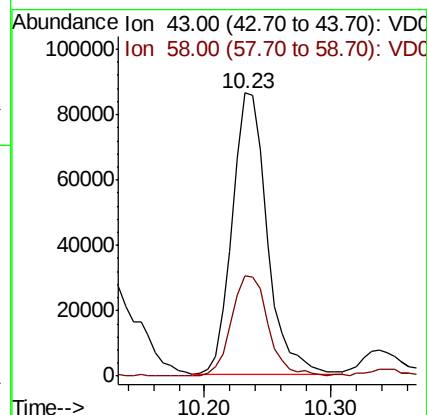
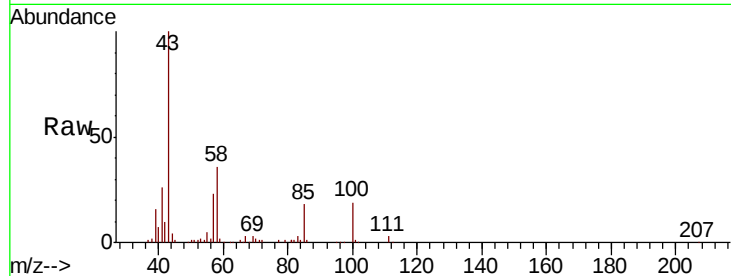
40180RE

Tot Ion: 43 Resp: 163708

Ion Ratio Lower Upper

43 100

58 37.6 30.2 45.4



#52

Toluene

Concen: 55.630 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD064309.D

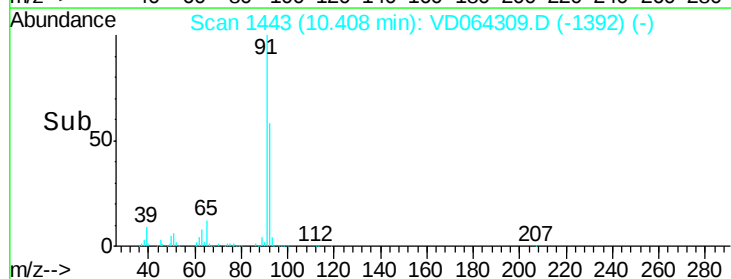
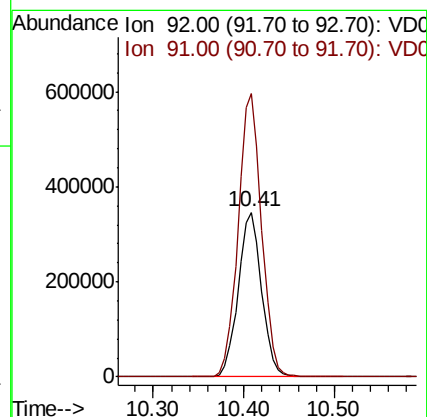
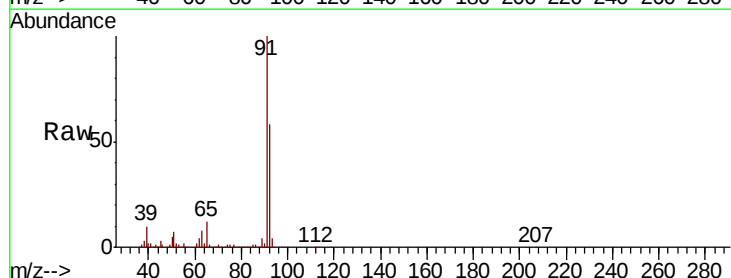
Acq: 20 Nov 2019 13:09

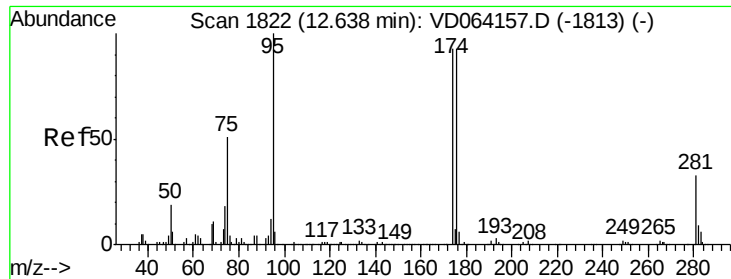
Tgt Ion: 92 Resp: 622063

Ion Ratio Lower Upper

92 100

91 171.9 136.4 204.6

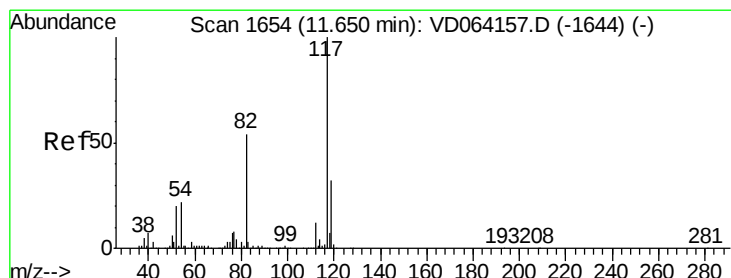
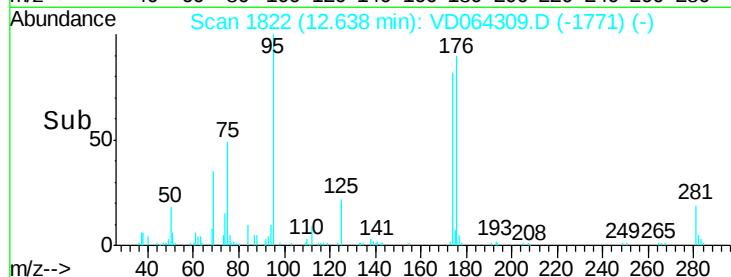
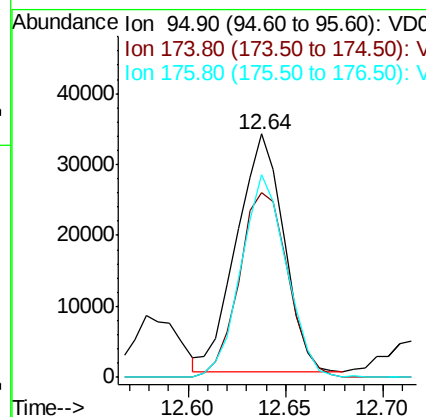
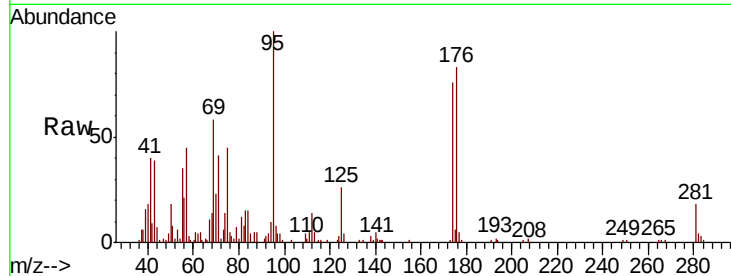




#62
4-Bromofluorobenzene
Concen: 11.146 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

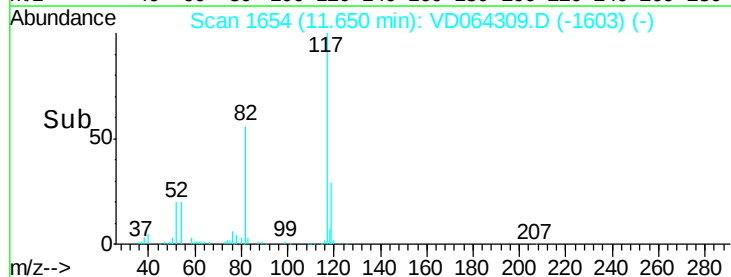
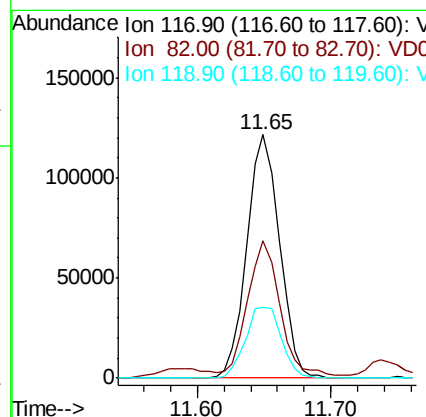
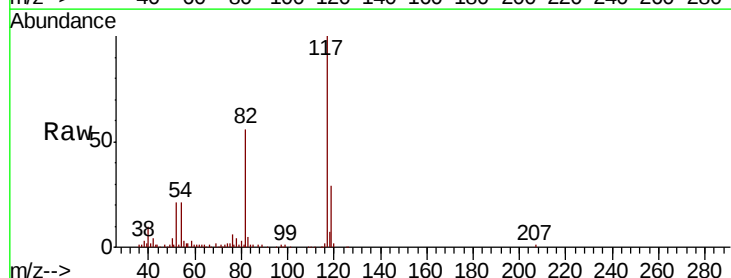
Instrument :
MSVOA_D
ClientSampleId :
40180RE

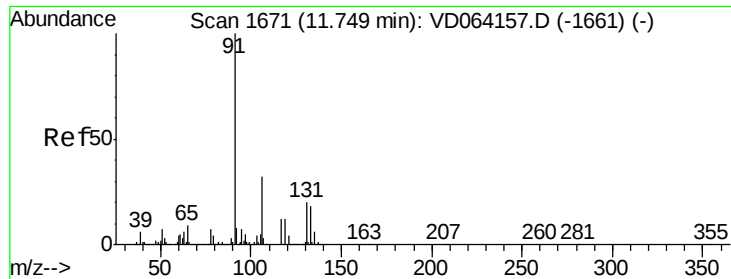
Tot Ion: 95 Resp: 56352
Ion Ratio Lower Upper
95 100
174 80.1 0.0 183.6
176 81.1 0.0 180.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Tgt Ion: 117 Resp: 205349
Ion Ratio Lower Upper
117 100
82 55.2 42.8 64.2
119 29.3 25.6 38.4





#67

Ethyl Benzene

Concen: 67.841 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

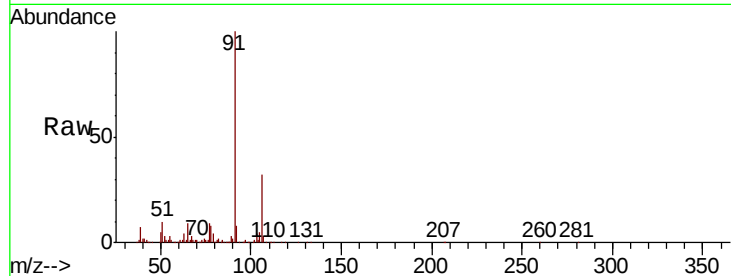
40180RE

Tot Ion: 91 Resp: 512422

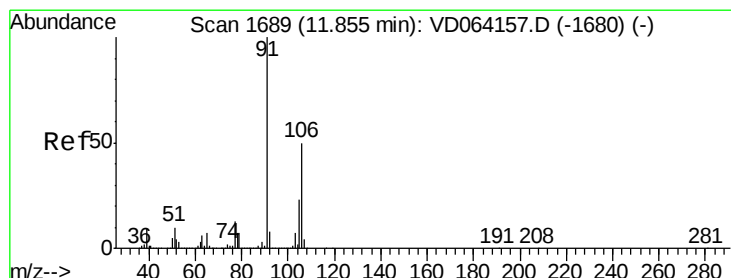
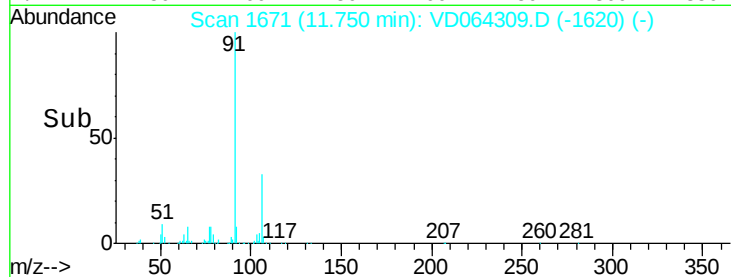
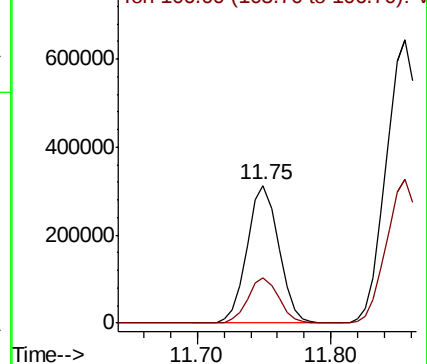
Ion Ratio Lower Upper

91 100

106 32.5 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): V



#68

m/p-Xylenes

Concen: 206.841 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD064309.D

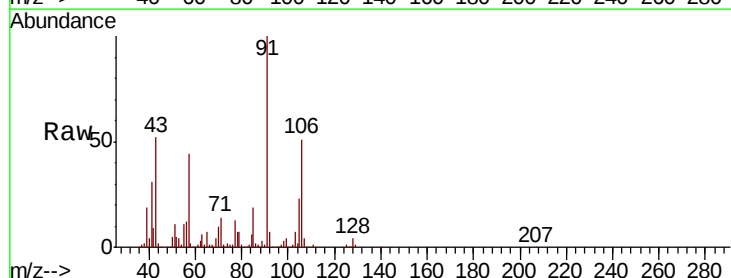
Acq: 20 Nov 2019 13:09

Tgt Ion: 106 Resp: 598844

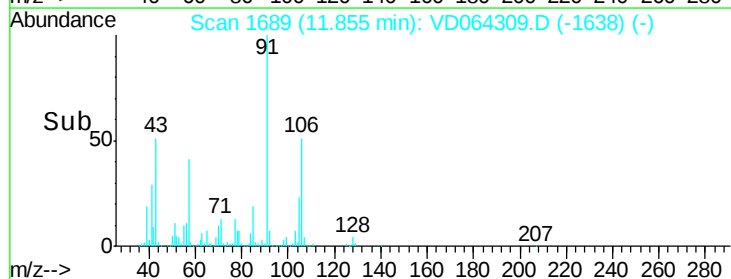
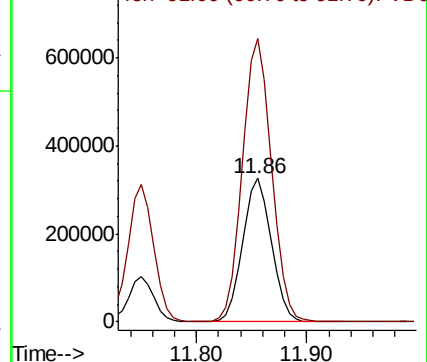
Ion Ratio Lower Upper

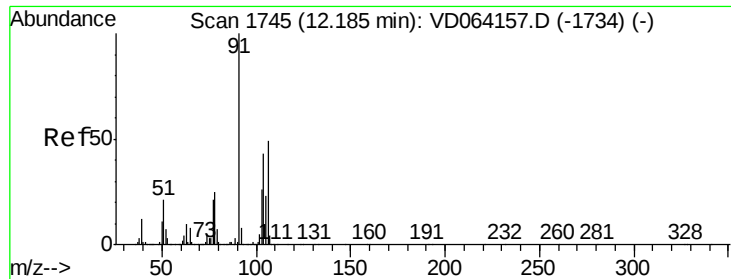
106 100

91 199.5 160.3 240.5



Abundance Ion 106.00 (105.70 to 106.70): V

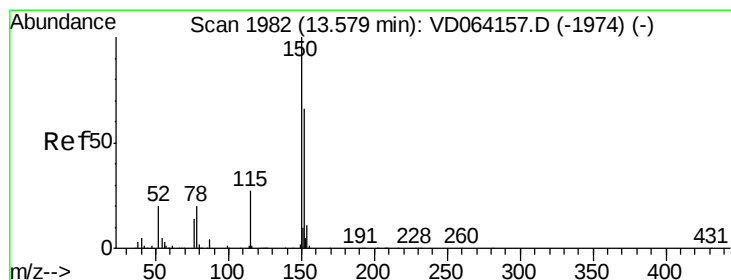
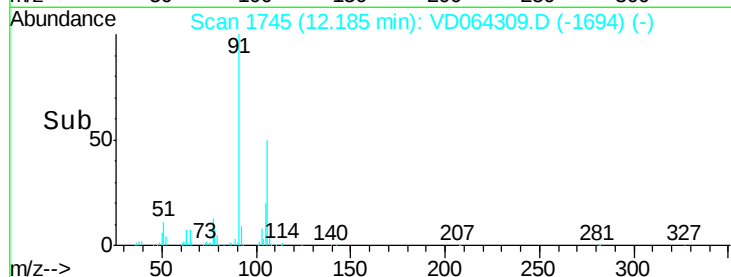
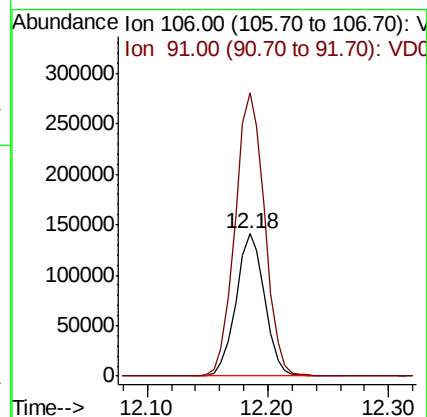
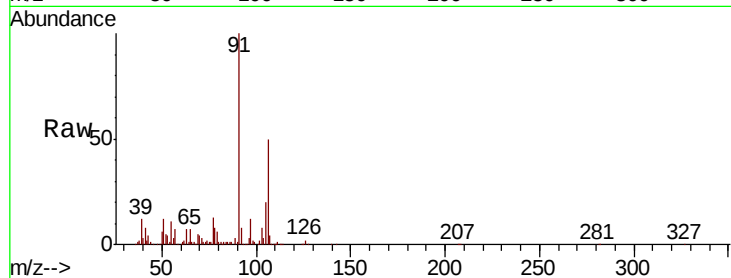




#69
o-Xylene
Concen: 86.603 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

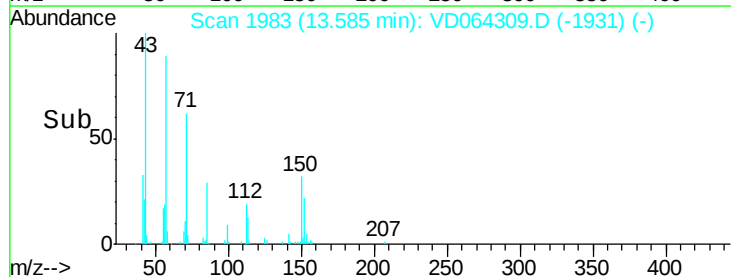
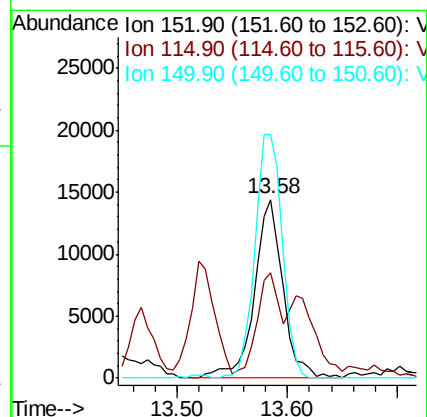
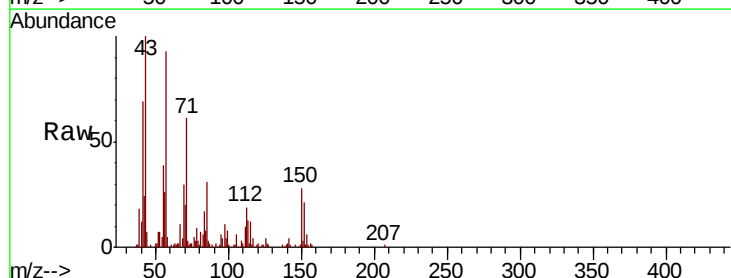
Instrument :
MSVOA_D
ClientSampleId :
40180RE

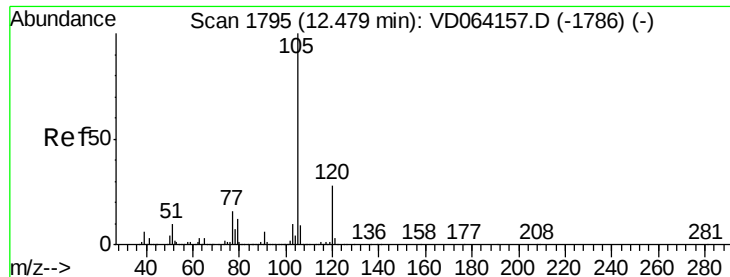
Tot Ion:106 Resp: 232539
Ion Ratio Lower Upper
106 100
91 206.0 105.1 315.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Tgt Ion:152 Resp: 26152
Ion Ratio Lower Upper
152 100
115 45.3 27.4 82.2
150 131.3 0.0 351.6





#73

Isopropylbenzene

Concen: 62.929 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

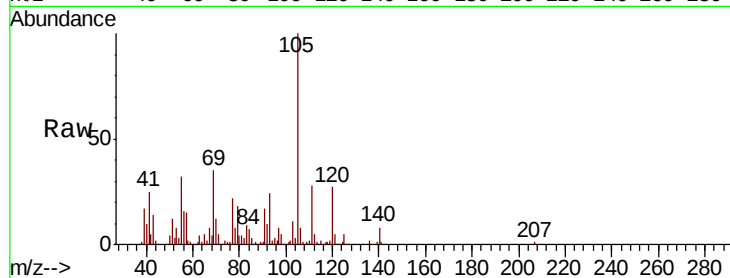
40180RE

Tot Ion:105 Resp: 120795

Ion Ratio Lower Upper

105 100

120 26.5 13.6 40.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

80000

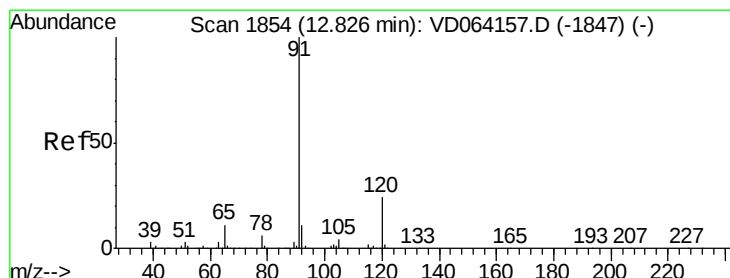
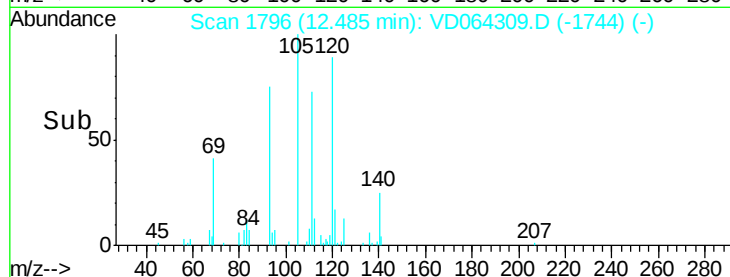
60000

40000

20000

0

Time--> 12.40 12.45 12.50 12.55



#78

n-propylbenzene

Concen: 128.852 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064309.D

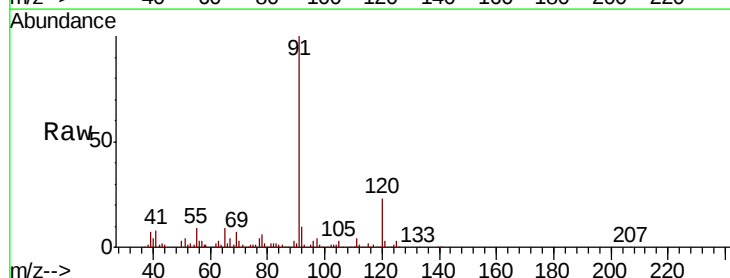
Acq: 20 Nov 2019 13:09

Tgt Ion: 91 Resp: 282586

Ion Ratio Lower Upper

91 100

120 23.2 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

200000

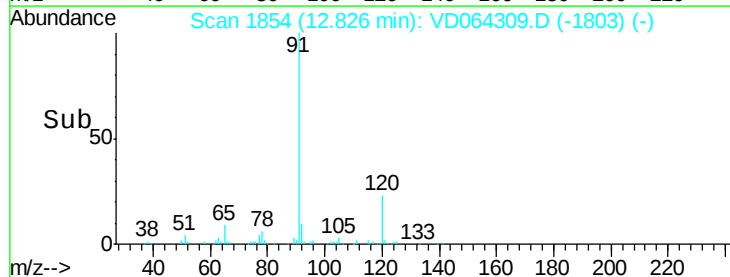
150000

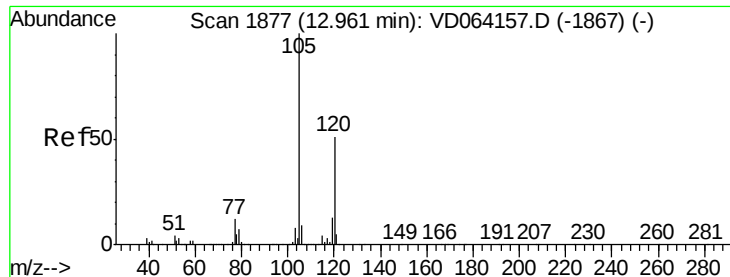
100000

50000

0

Time--> 12.75 12.80 12.85

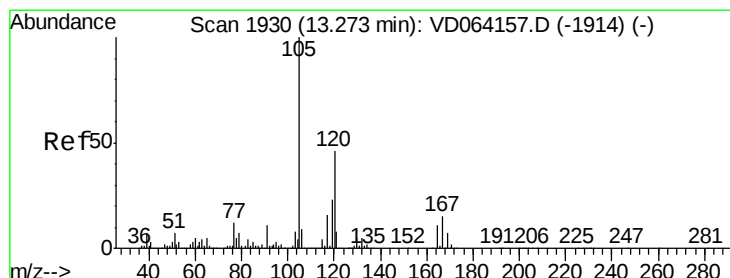
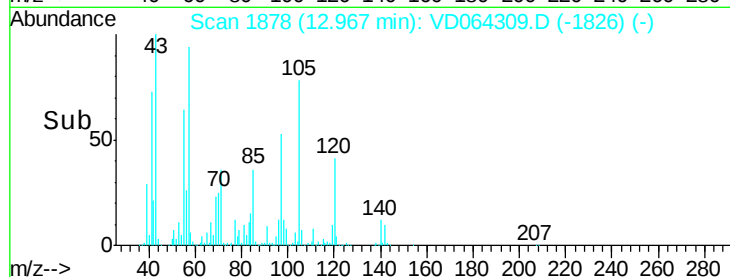
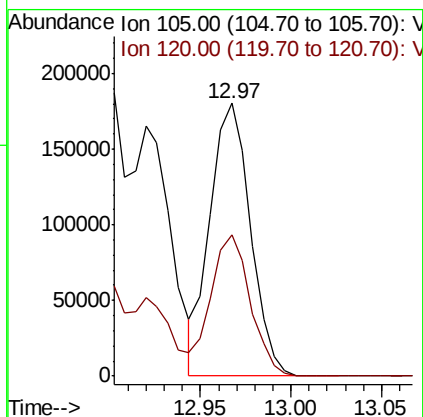
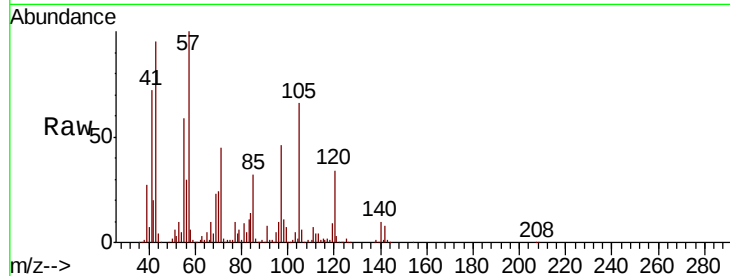




#80
 1,3,5-Trimethylbenzene
 Concen: 177.458 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. 0.01 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

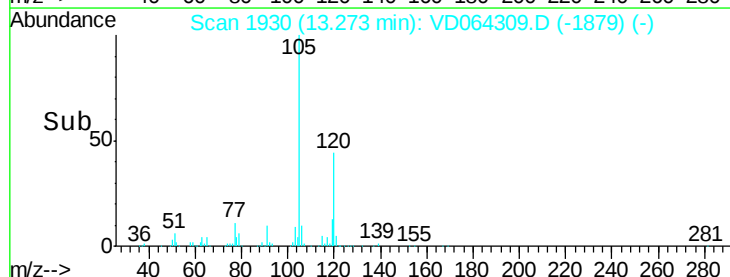
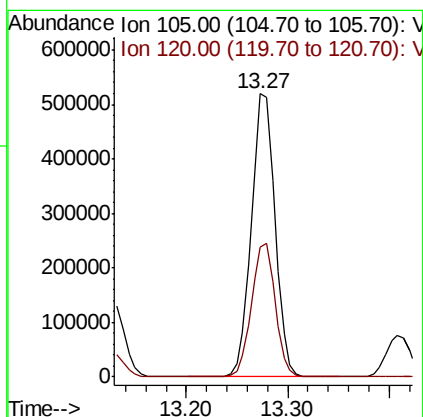
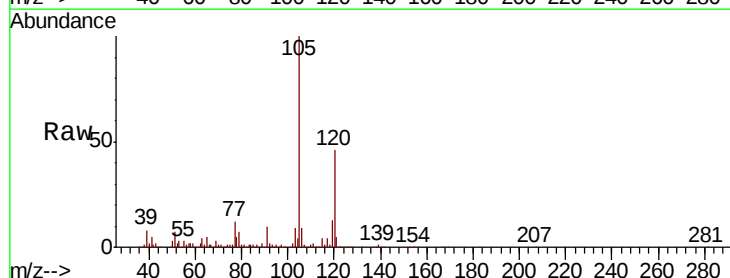
Instrument :
 MSVOA_D
 ClientSampleId :
 40180RE

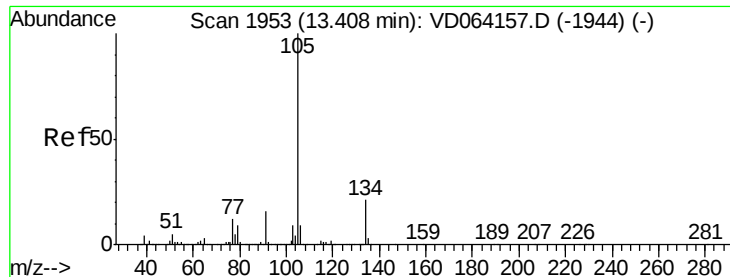
Tot Ion:105 Resp: 279904
 Ion Ratio Lower Upper
 105 100
 120 50.5 25.4 76.4



#84
 1,2,4-Trimethylbenzene
 Concen: 542.961 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VD064309.D
 Acq: 20 Nov 2019 13:09

Tgt Ion:105 Resp: 845499
 Ion Ratio Lower Upper
 105 100
 120 47.2 23.3 69.8





#85

sec-Butylbenzene

Concen: 68.077 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

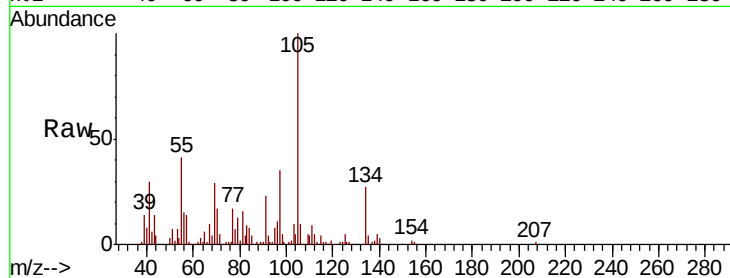
40180RE

Tot Ion:105 Resp: 127169

Ion Ratio Lower Upper

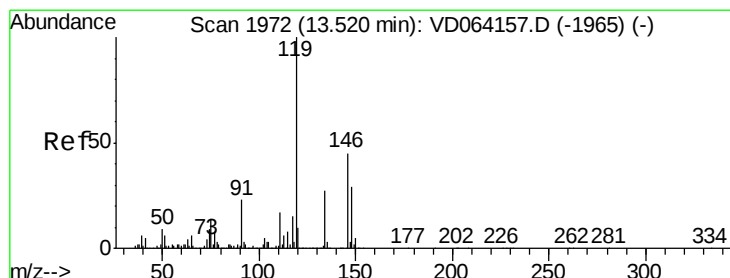
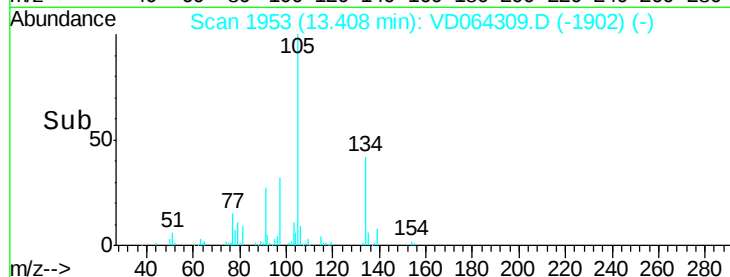
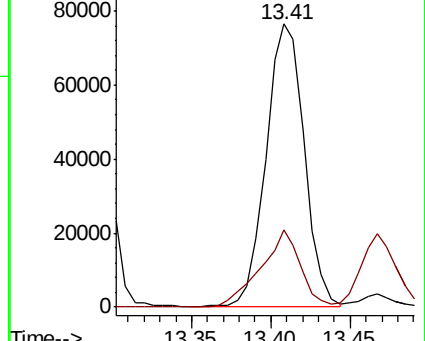
105 100

134 28.5 10.7 31.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 98.051 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.01 min

Lab File: VD064309.D

Acq: 20 Nov 2019 13:09

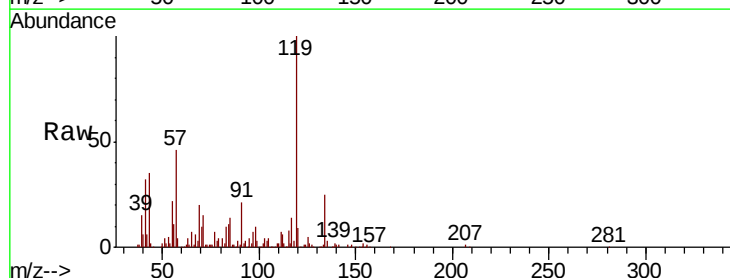
Tgt Ion:119 Resp: 174129

Ion Ratio Lower Upper

119 100

134 25.4 13.5 40.5

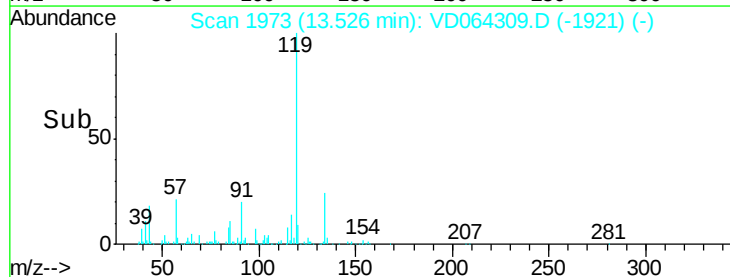
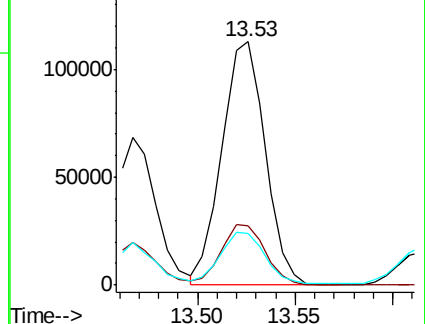
91 21.6 11.5 34.4

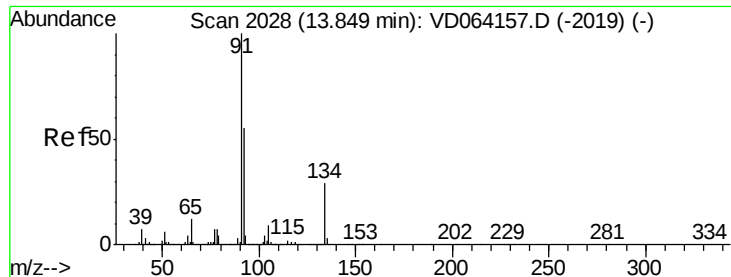


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

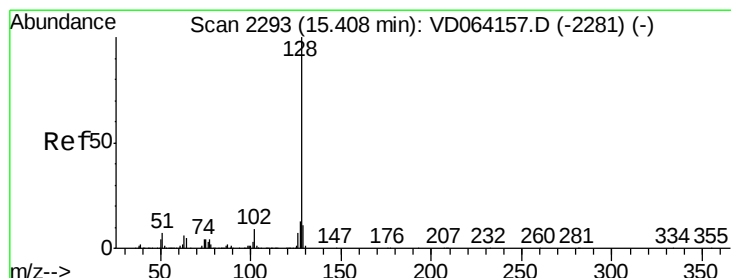
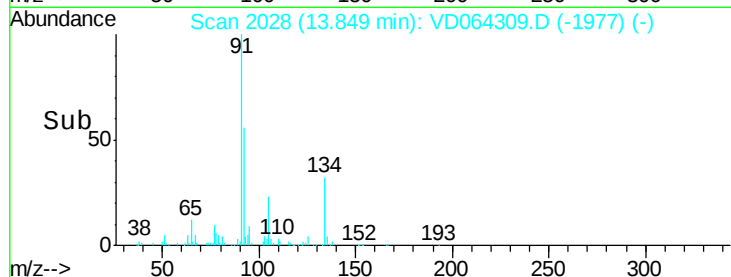
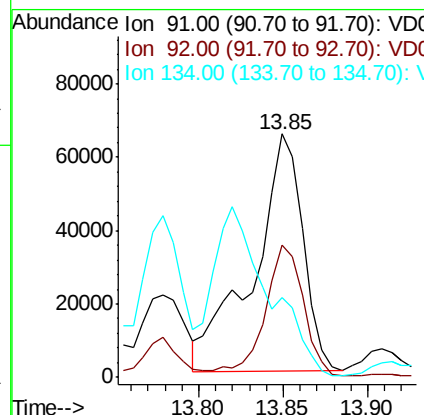
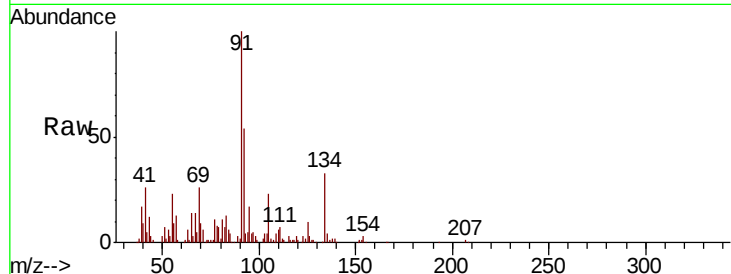




#89
n-Butylbenzene
Concen: 82.254 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
40180RE

Tot Ion: 91 Resp: 131971
Ion Ratio Lower Upper
91 100
92 43.3 27.3 81.8
134 0.0 14.1 42.4#



#95
Naphthalene
Concen: 25.315 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.01 min
Lab File: VD064309.D
Acq: 20 Nov 2019 13:09

Tgt Ion: 128 Resp: 23455
Ion Ratio Lower Upper
128 100
127 21.8 10.5 15.7#
129 11.2 8.6 13.0

