

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032019\
 Data File : VD061227.D
 Acq On : 21 Mar 2019 1:53
 Operator : VA/AP
 Sample : K1688-21
 Misc : 7.60g/5ml/MSVOA D/SOIL
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 JC-02-031919-A

Quant Time: Mar 22 02:06:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	8201	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.20	114	17638	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.36	117	16743	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	7869	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	4664	68.32	ug/l	-0.01
Spiked Amount			Recovery	=	136.64%	
35) Dibromofluoromethane	6.90	113	5506	42.06	ug/l	-0.02
Spiked Amount			Recovery	=	84.12%	
50) Toluene-d8	10.40	98	11925	36.28	ug/l	0.00
Spiked Amount			Recovery	=	72.56%	
62) 4-Bromofluorobenzene	13.55	95	5764	45.19	ug/l	0.00
Spiked Amount			Recovery	=	90.38%	

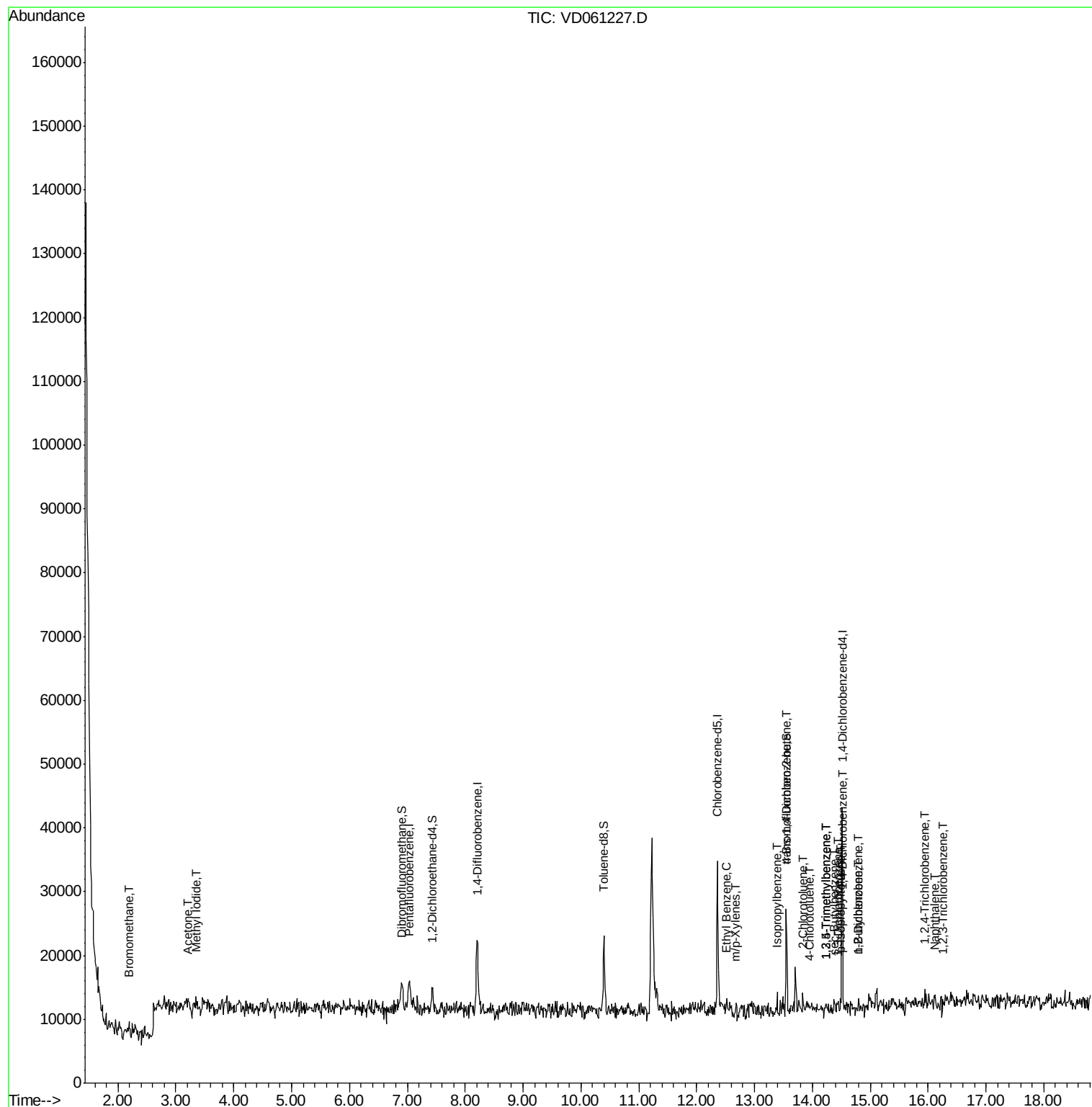
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.19	94	222	17.339	ug/l #	8
10) Methyl Iodide	3.35	142	1728	14.695	ug/l #	87
16) Acetone	3.21	43	1474	75.510	ug/l #	48
20) Methylene Chloride	3.81	84	199	Below Cal	#	4
67) Ethyl Benzene	12.52	91	770	1.576	ug/l #	43
68) m/p-Xylenes	12.66	106	227	1.184	ug/l #	39
73) Isopropylbenzene	13.39	105	693	1.222	ug/l #	49
79) 2-Chlorotoluene	13.83	91	457	1.250	ug/l #	38
80) 1,3,5-Trimethylbenzene	14.23	105	490	1.138	ug/l #	31
81) trans-1,4-Dichloro-2-buten	13.55	75	1708	51.174	ug/l #	17
82) 4-Chlorotoluene	13.94	91	550	1.273	ug/l #	39
84) 1,2,4-Trimethylbenzene	14.23	105	490	1.138	ug/l #	31
85) sec-Butylbenzene	14.37	105	791	1.375	ug/l #	58
86) p-Isopropyltoluene	14.48	119	636	1.353	ug/l #	52
87) 1,3-Dichlorobenzene	14.45	146	520	2.012	ug/l #	76
88) 1,4-Dichlorobenzene	14.53	146	472	1.858	ug/l #	34
89) n-Butylbenzene	14.79	91	750	1.661	ug/l #	29
91) 1,2-Dichlorobenzene	14.80	146	452	2.097	ug/l #	25
93) 1,2,4-Trichlorobenzene	15.94	180	287	2.871	ug/l #	26
95) Naphthalene	16.12	128	1844	12.138	ug/l #	70
96) 1,2,3-Trichlorobenzene	16.27	180	239	4.840	ug/l #	11

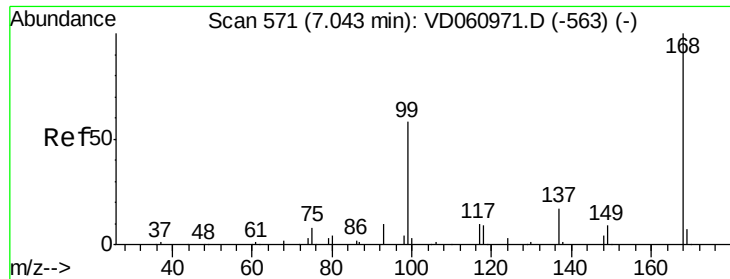
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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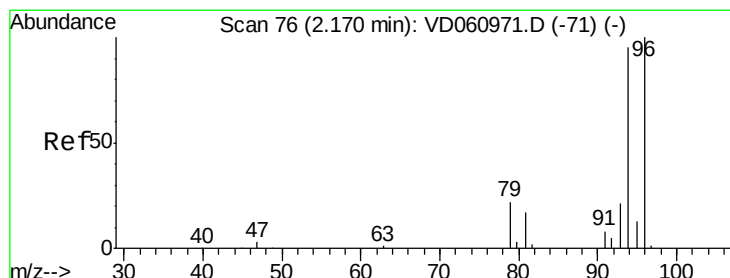
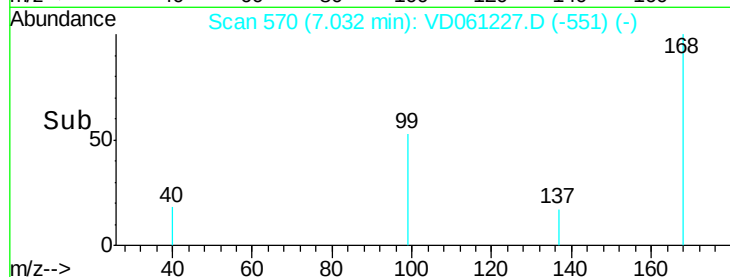
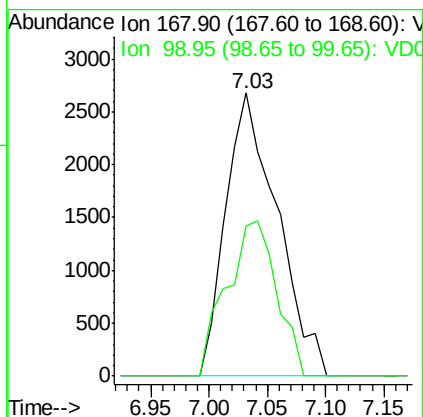
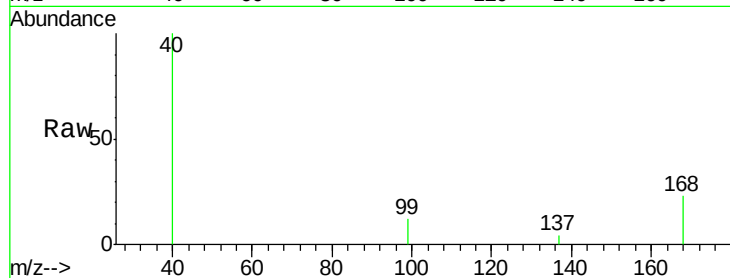




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.03 min Scan# 570
Delta R.T. -0.01 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

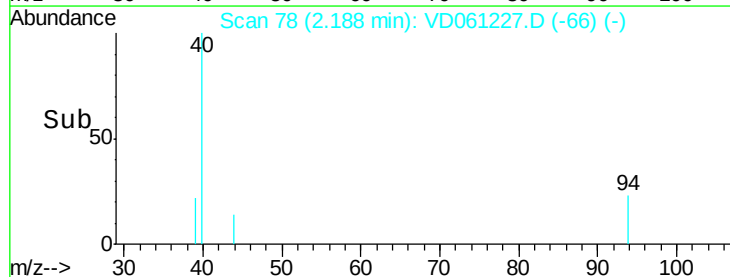
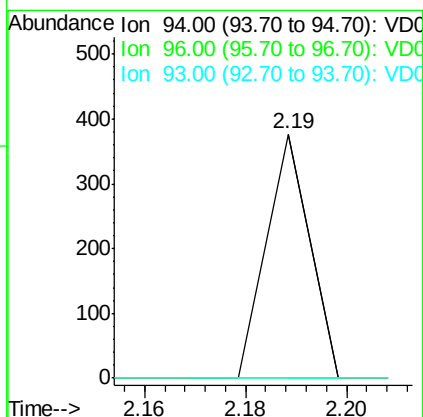
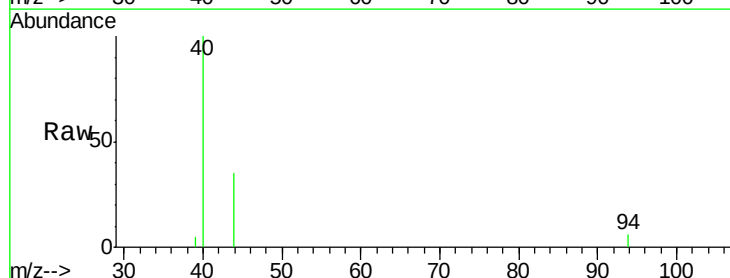
Instrument :
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JC-02-031919-A

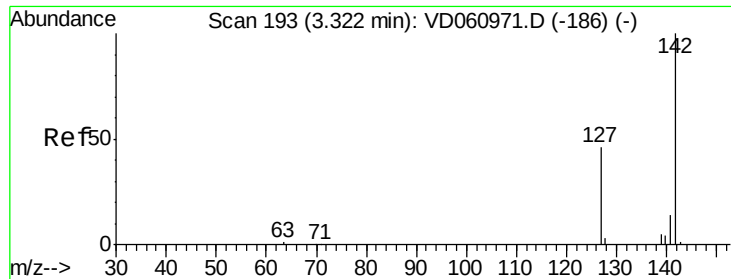
Tot Ion:168 Resp: 8201
Ion Ratio Lower Upper
168 100
99 53.3 47.3 70.9



#5
Bromomethane
Concen: 17.339 ug/l
RT: 2.19 min Scan# 78
Delta R.T. 0.02 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

Tgt Ion: 94 Resp: 222
Ion Ratio Lower Upper
94 100
96 0.0 84.0 126.0#
93 0.0 17.3 25.9#

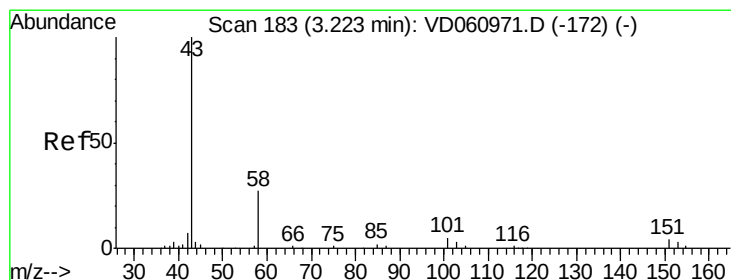
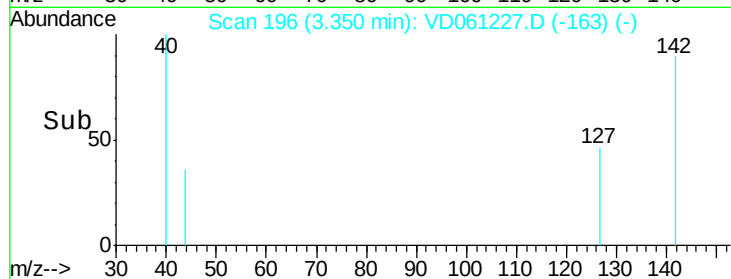
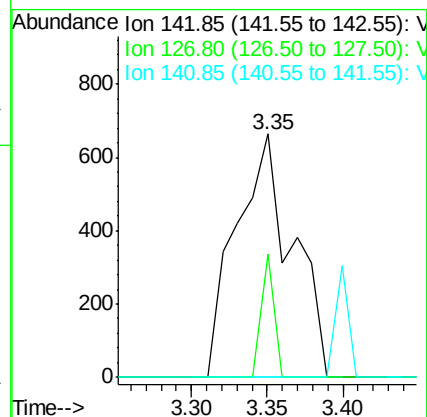
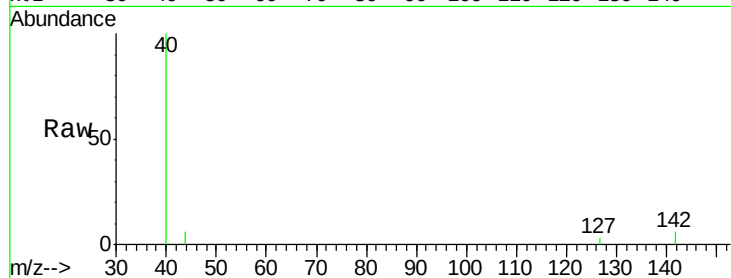




#10
Methvl Iodide
Concen: 14.695 ug/l
RT: 3.35 min Scan# 196
Delta R.T. 0.03 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

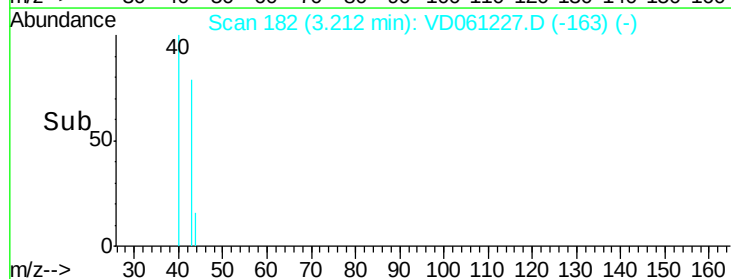
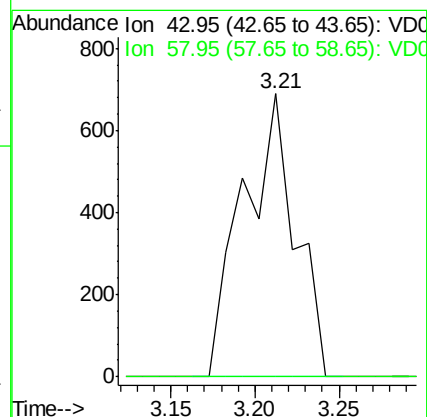
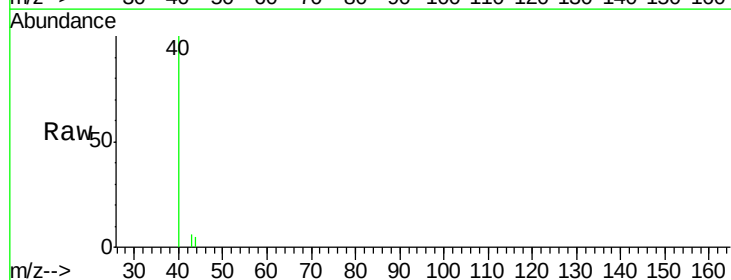
Instrument :
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ClientSampleId :
JC-02-031919-A

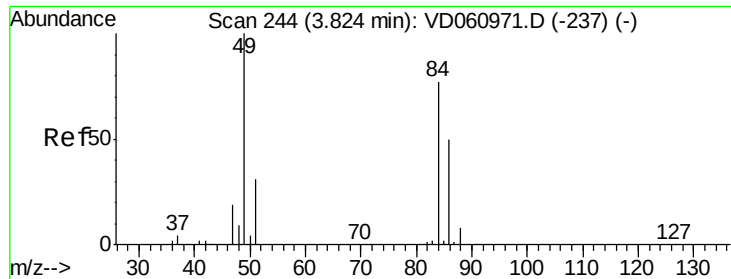
Tot Ion:142 Resp: 1728
Ion Ratio Lower Upper
142 100
127 50.6 36.8 55.2
141 0.0 11.2 16.8#



#16
Acetone
Concen: 75.510 ug/l
RT: 3.21 min Scan# 182
Delta R.T. -0.01 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

Tgt Ion: 43 Resp: 1474
Ion Ratio Lower Upper
43 100
58 0.0 21.6 32.4#

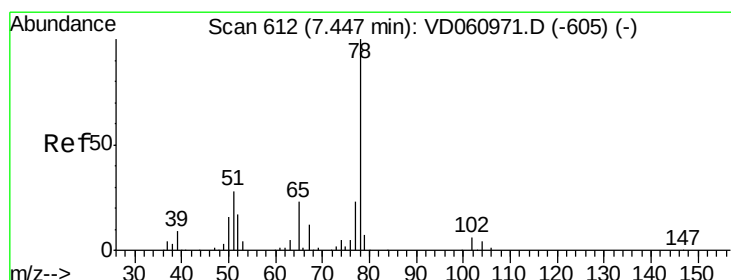
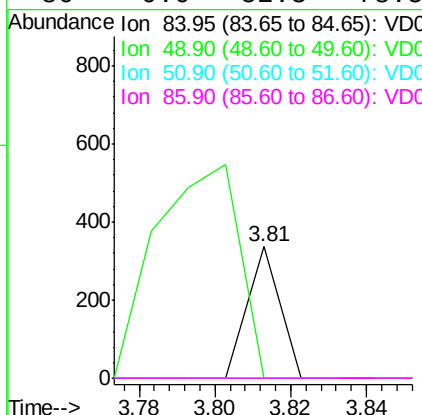
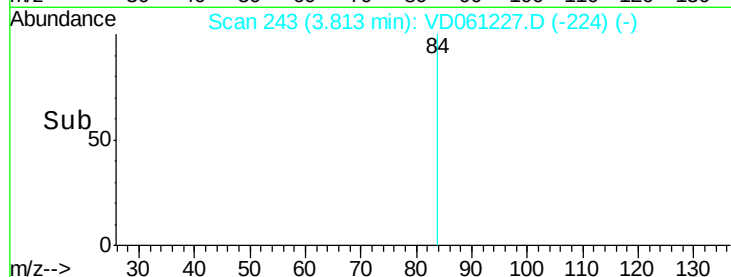
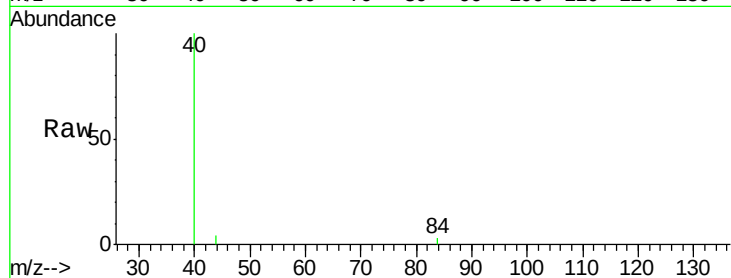




#20
Methylene Chloride
Concen: Below Cal
RT: 3.81 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

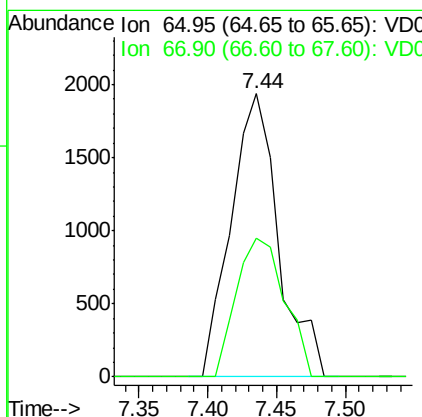
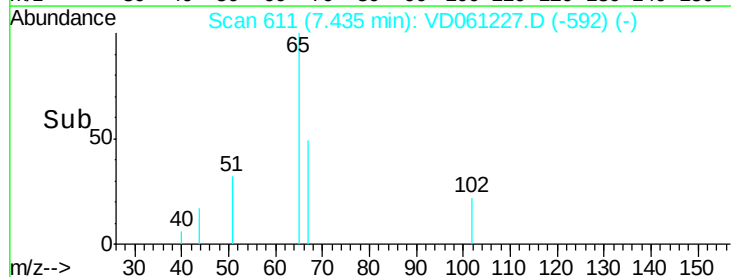
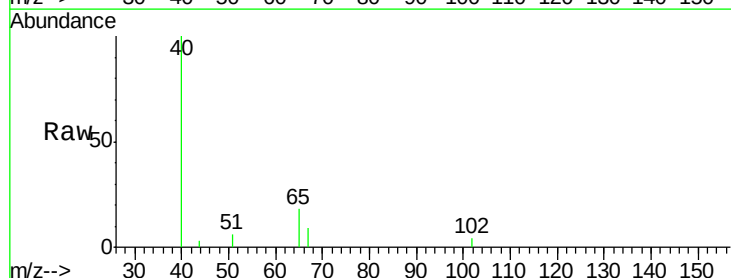
Instrument :
MSVOA_D
ClientSampleId :
JC-02-031919-A

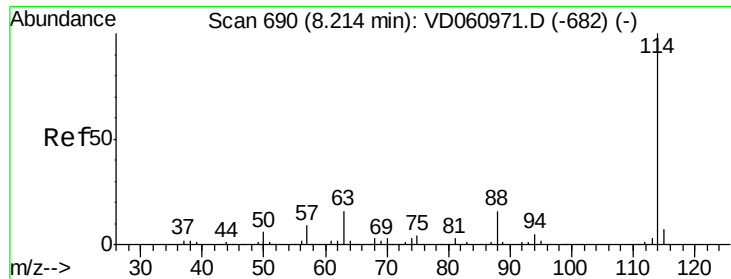
Tot Ion: 84 Resp: 199
Ion Ratio Lower Upper
84 100
49 0.0 104.2 156.2#
51 0.0 32.3 48.5#
86 0.0 52.3 78.5#



#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.01 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

Tgt Ion: 65 Resp: 4664
Ion Ratio Lower Upper
65 100
67 48.8 0.0 105.2

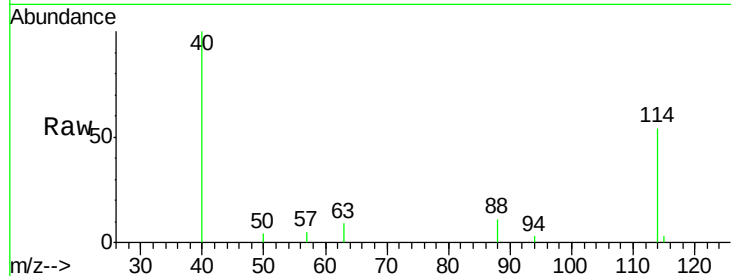




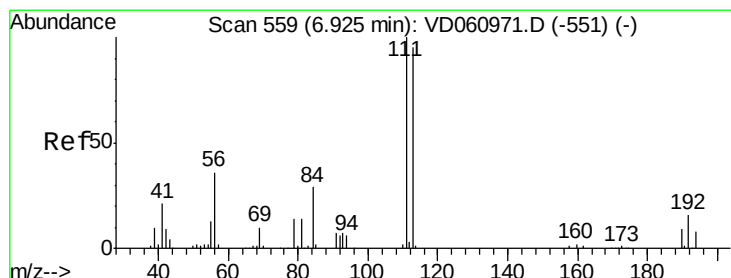
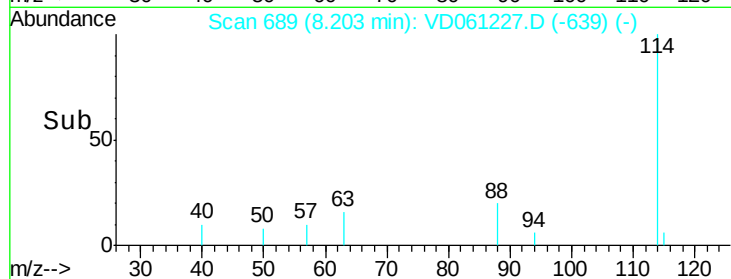
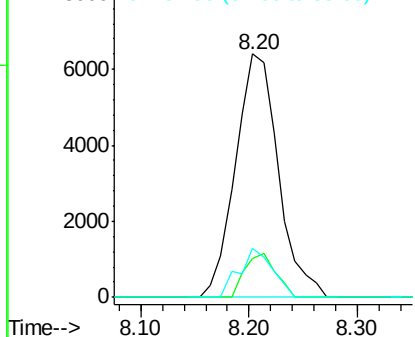
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VD061227.D
 Acq: 21 Mar 2019 1:53

Instrument :
 MSVOA_D
 ClientSampleId :
 JC-02-031919-A

Tot Ion:114 Resp: 17638
 Ion Ratio Lower Upper
 114 100
 63 15.9 0.0 31.4
 88 20.3 0.0 33.0

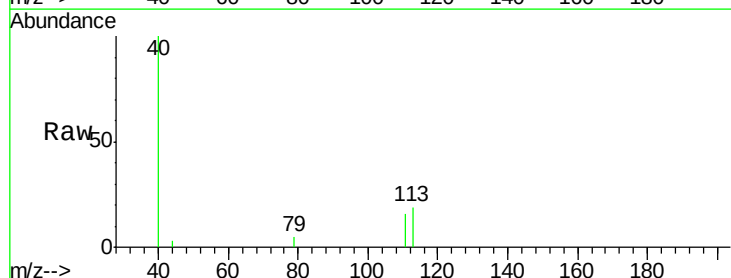


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

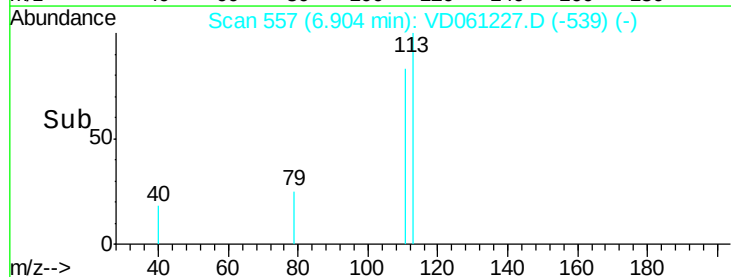
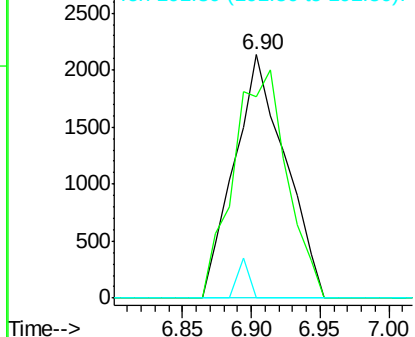


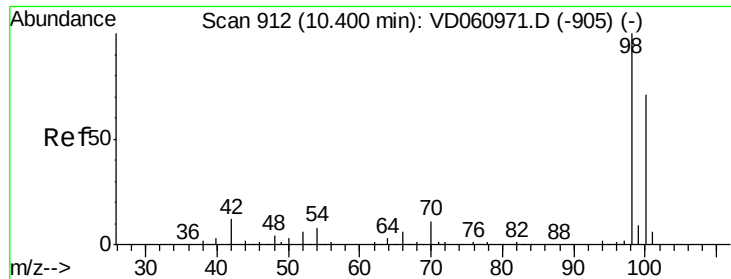
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.90 min Scan# 557
 Delta R.T. -0.02 min
 Lab File: VD061227.D
 Acq: 21 Mar 2019 1:53

Tgt Ion:113 Resp: 5506
 Ion Ratio Lower Upper
 113 100
 111 82.8 84.2 126.4#
 192 0.0 13.1 19.7#



Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

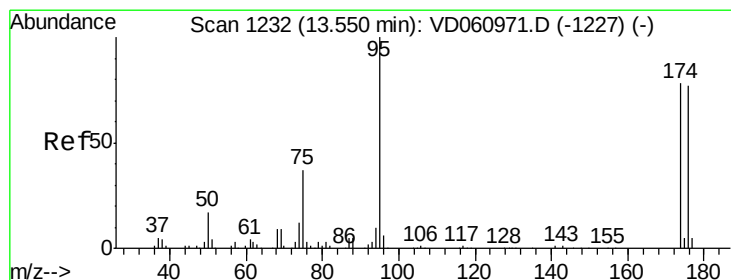
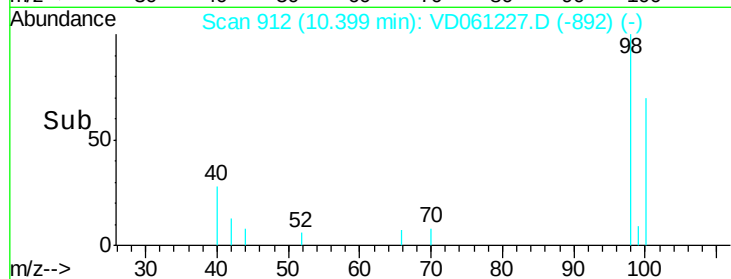
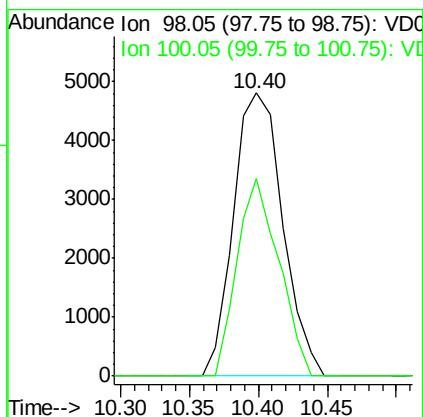
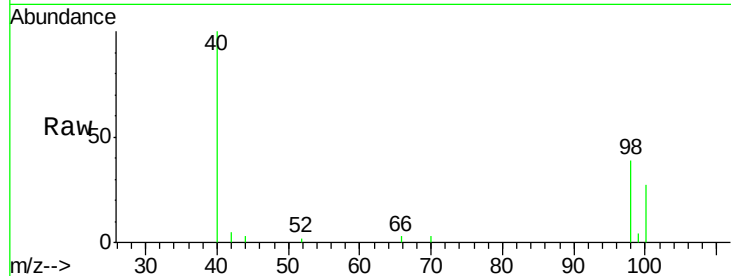




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.00 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

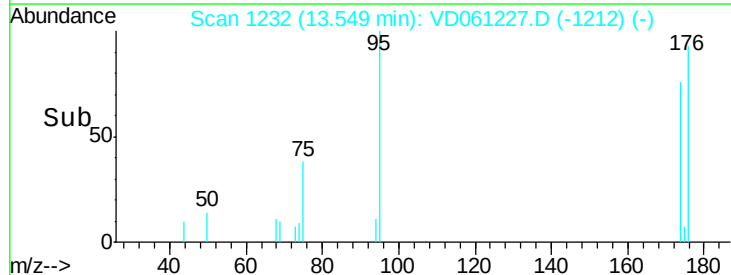
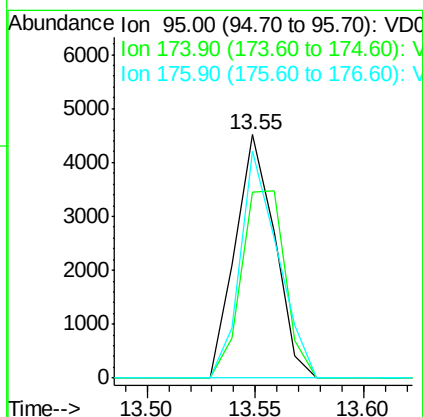
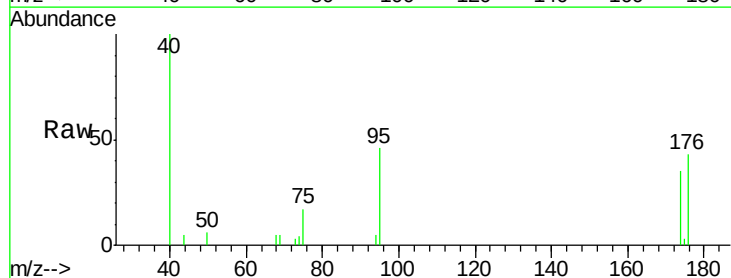
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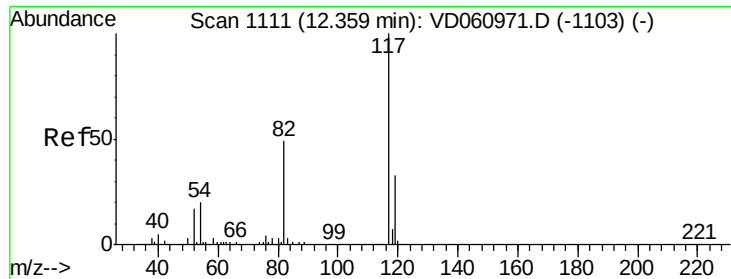
Tot Ion: 98 Resp: 11925
Ion Ratio Lower Upper
98 100
100 69.9 57.4 86.2



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

Tgt Ion: 95 Resp: 5764
Ion Ratio Lower Upper
95 100
174 76.4 0.0 155.6
176 93.4 0.0 153.8

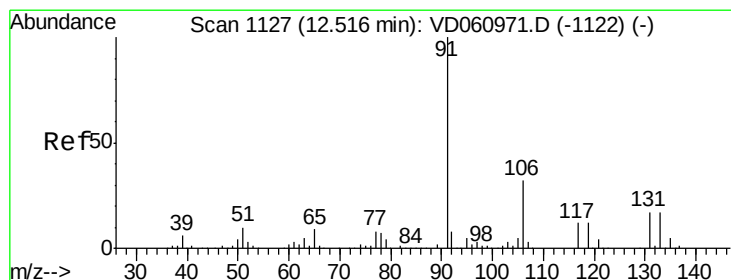
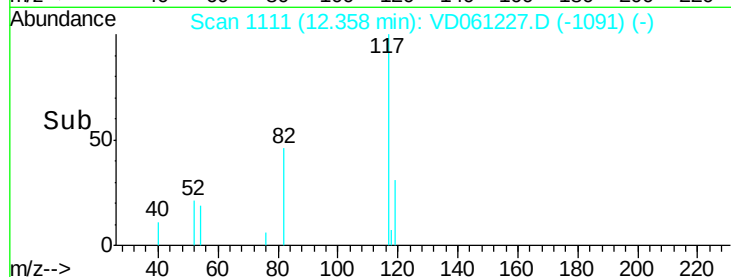
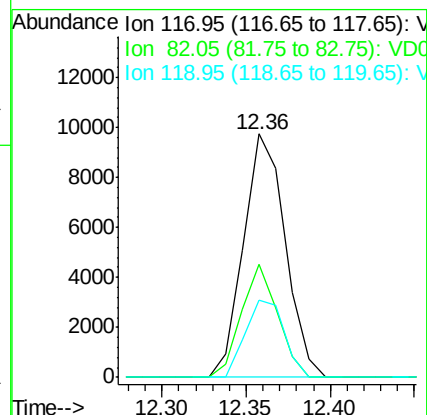
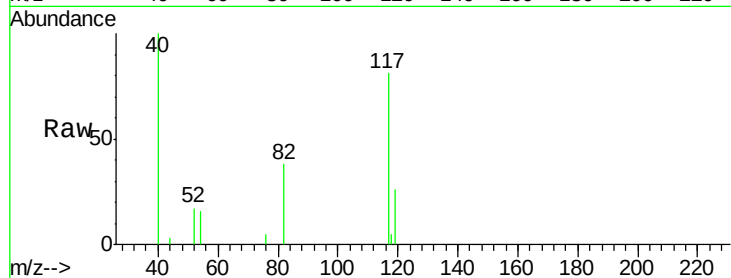




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

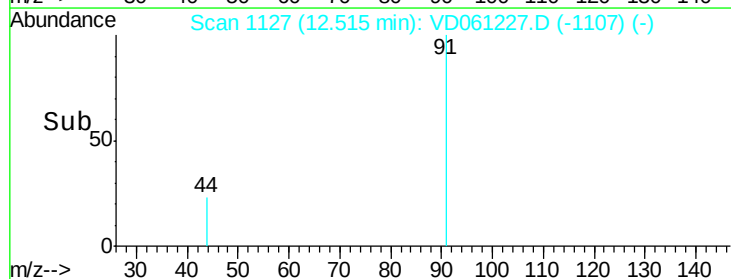
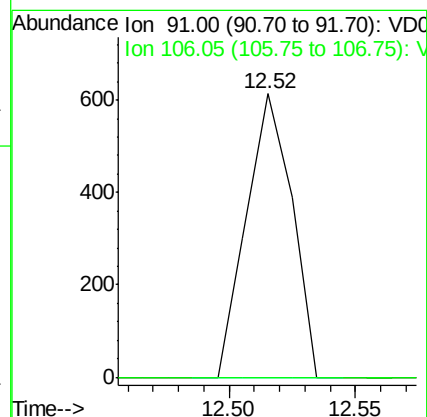
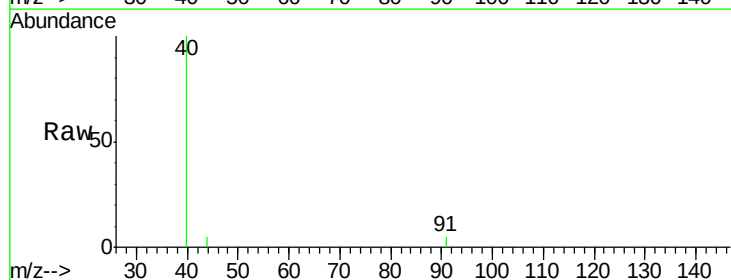
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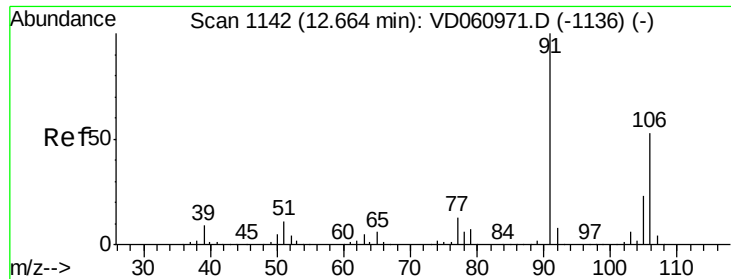
Tot Ion:117 Resp: 16743
Ion Ratio Lower Upper
117 100
82 46.4 38.9 58.3
119 31.5 26.6 39.8



#67
Ethyl Benzene
Concen: 1.576 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.00 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

Tgt Ion: 91 Resp: 770
Ion Ratio Lower Upper
91 100
106 0.0 25.7 38.5#

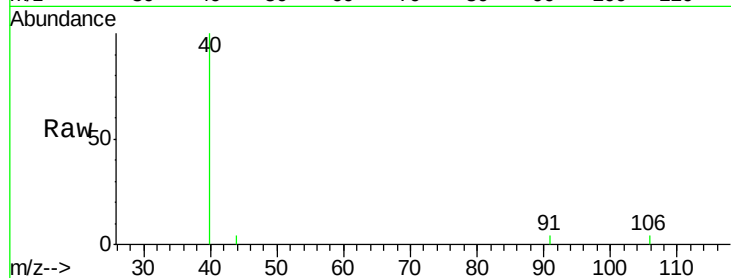




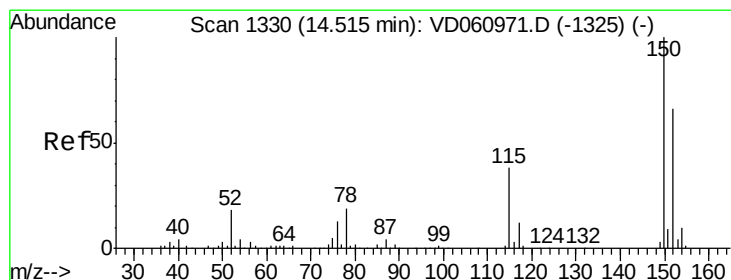
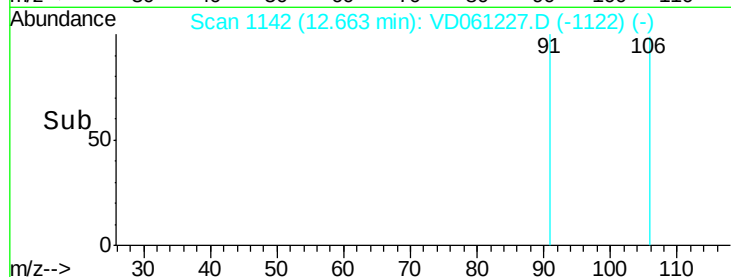
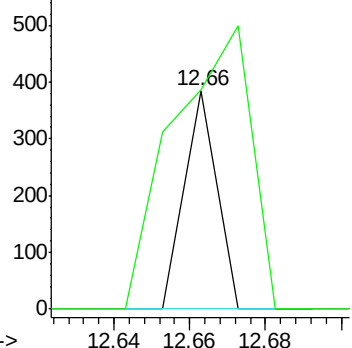
#68
m/p-Xvlenes
Concen: 1.184 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

Instrument :
MSVOA_D
ClientSampleId :
JC-02-031919-A

Tot Ion:106 Resp: 227
Ion Ratio Lower Upper
106 100
91 100.8 152.0 228.0#

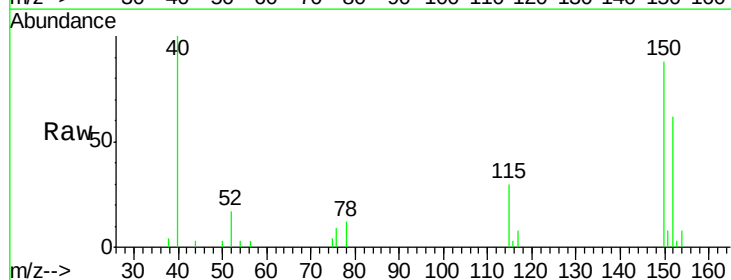


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

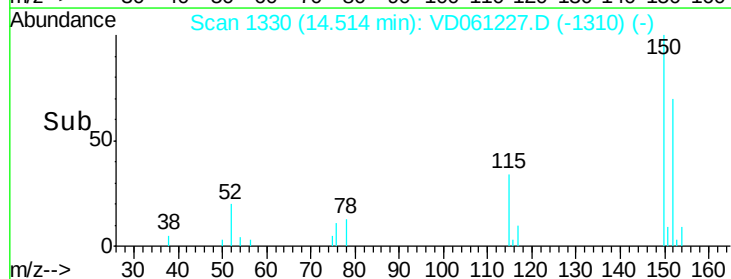
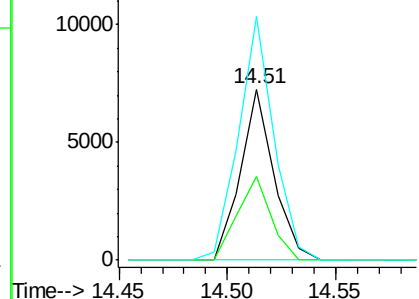


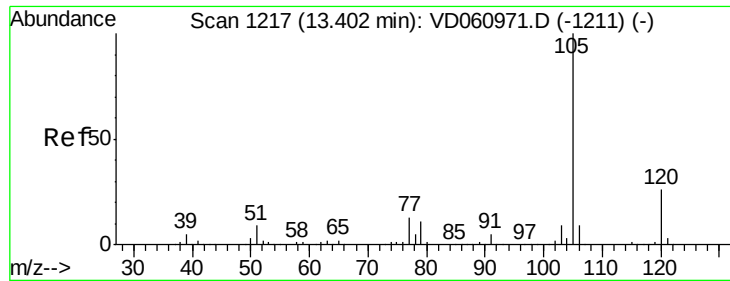
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

Tgt Ion:152 Resp: 7869
Ion Ratio Lower Upper
152 100
115 48.7 28.6 85.9
150 142.1 0.0 310.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.222 ug/l

RT: 13.39 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD061227.D

Acq: 21 Mar 2019 1:53

Instrument :

MSVOA_D

ClientSampleId :

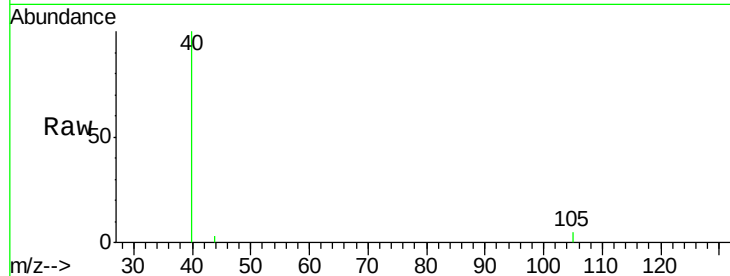
JC-02-031919-A

Tot Ion:105 Resp: 693

Ion Ratio Lower Upper

105 100

120 0.0 12.8 38.4#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.39

800

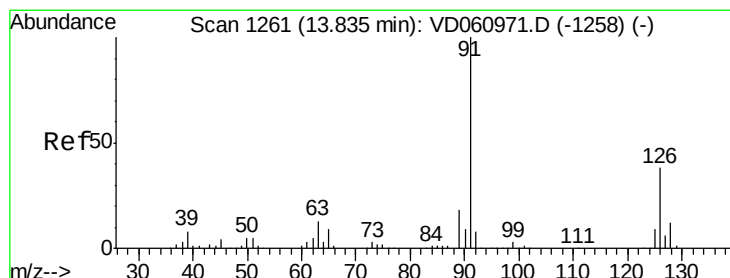
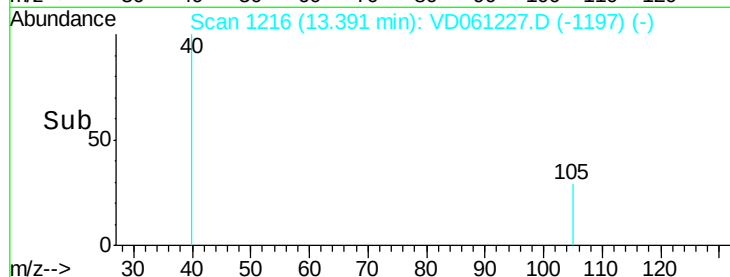
600

400

200

0

Time--> 13.35 13.40



#79

2-Chlorotoluene

Concen: 1.250 ug/l

RT: 13.83 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VD061227.D

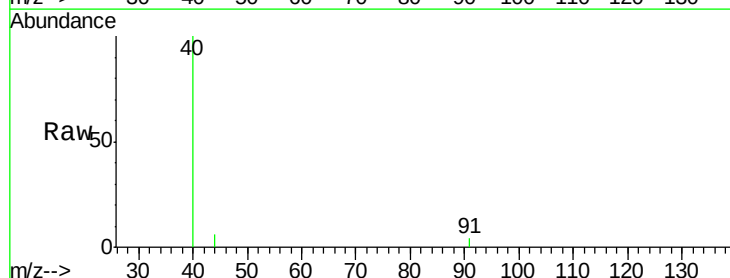
Acq: 21 Mar 2019 1:53

Tgt Ion: 91 Resp: 457

Ion Ratio Lower Upper

91 100

126 0.0 18.6 55.6#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V

13.83

500

400

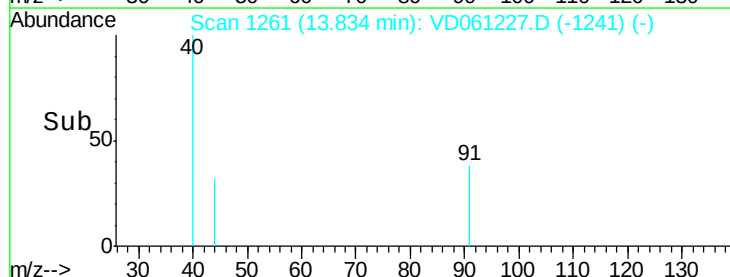
300

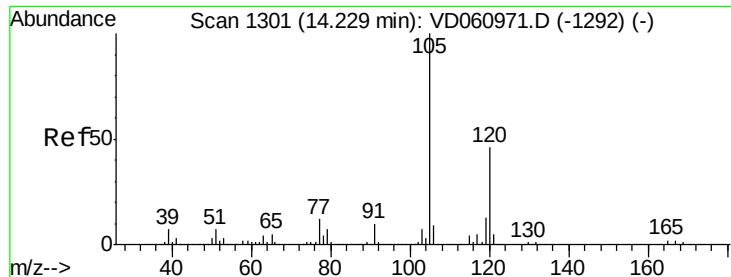
200

100

0

Time--> 13.80 13.85





#80

1,3,5-Trimethylbenzene

Concen: 1.138 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VD061227.D

Acq: 21 Mar 2019 1:53

Instrument :

MSVOA_D

ClientSampleId :

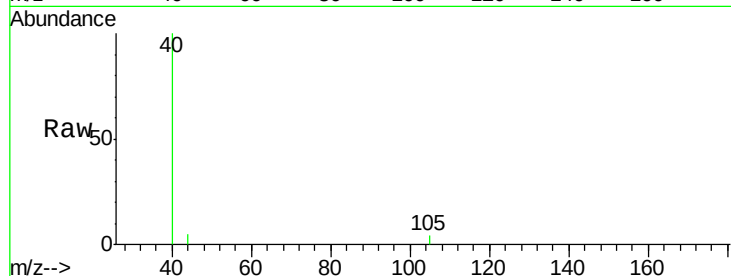
JC-02-031919-A

Tot Ion:105 Resp: 490

Ion Ratio Lower Upper

105 100

120 0.0 22.9 68.5#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

14.23

500

400

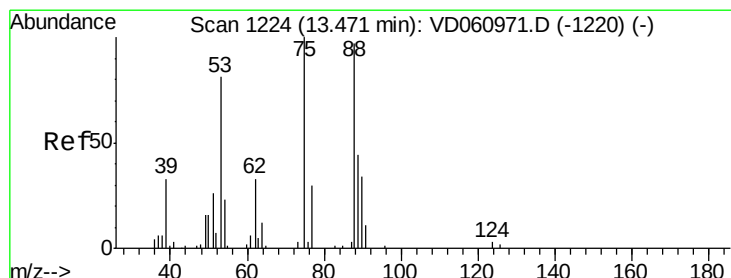
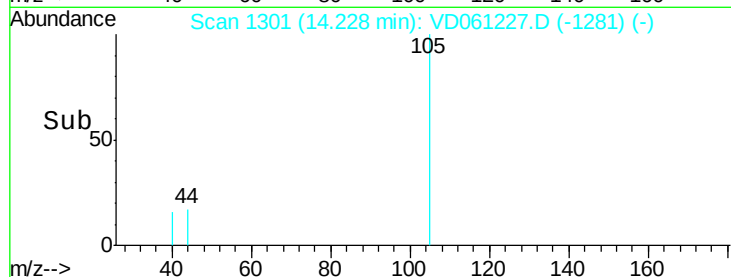
300

200

100

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 51.174 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061227.D

Acq: 21 Mar 2019 1:53

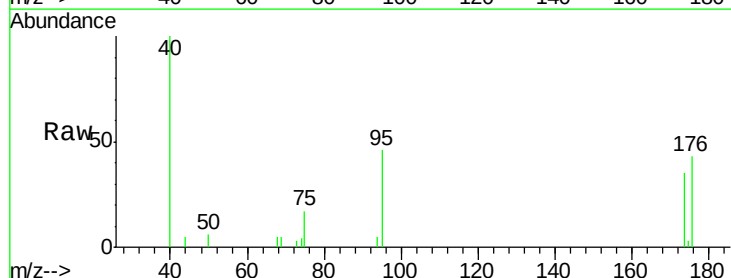
Tgt Ion: 75 Resp: 1708

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 34.8 52.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

13.55

2000

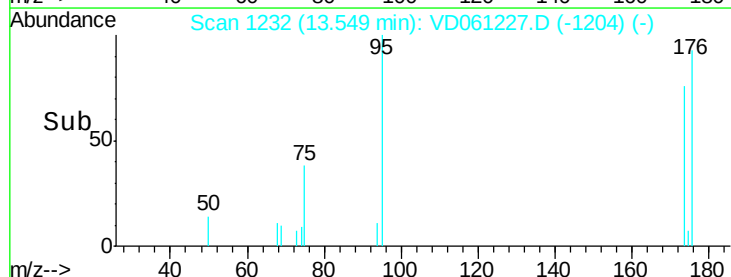
1500

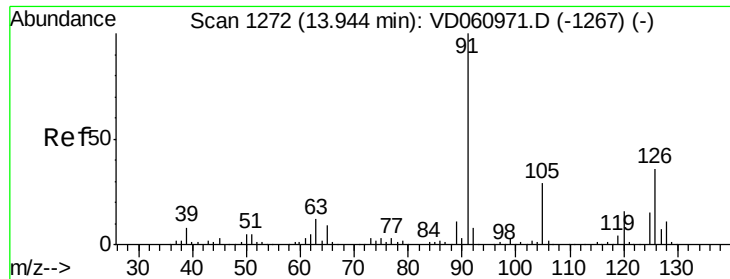
1000

500

0

Time-->

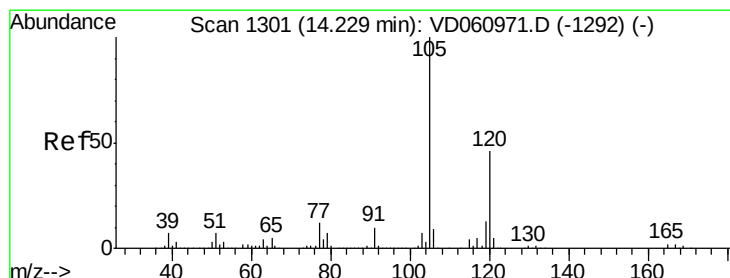
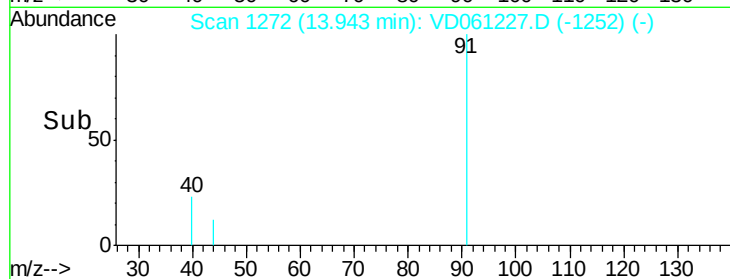
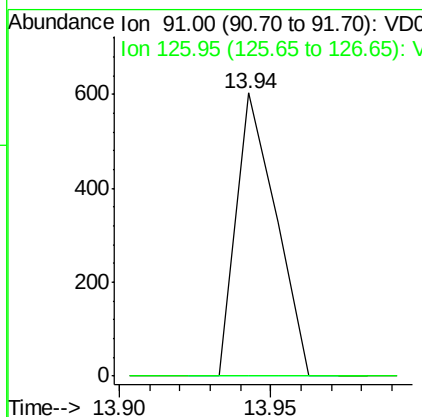
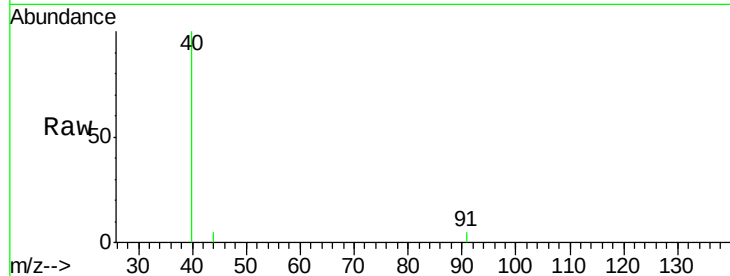




#82
 4-Chlorotoluene
 Concen: 1.273 ug/l
 RT: 13.94 min Scan# 1272
 Delta R.T. -0.00 min
 Lab File: VD061227.D
 Acq: 21 Mar 2019 1:53

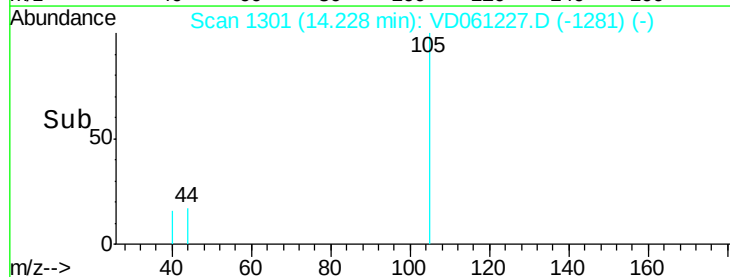
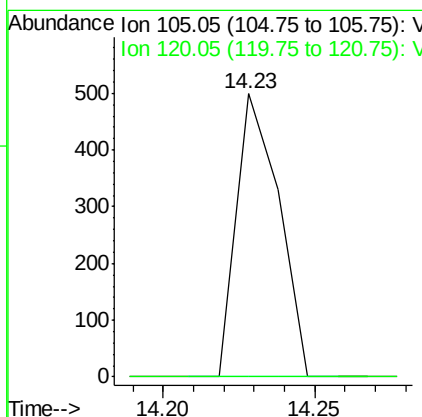
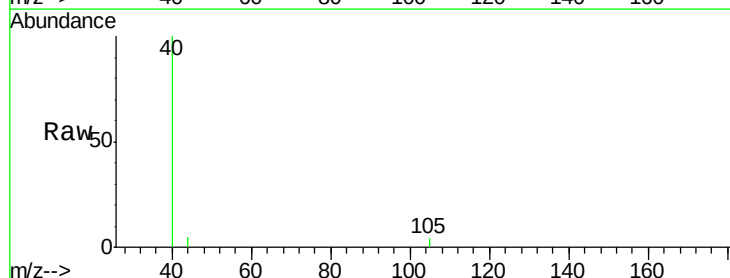
Instrument :
 MSVOA_D
 ClientSampleId :
 JC-02-031919-A

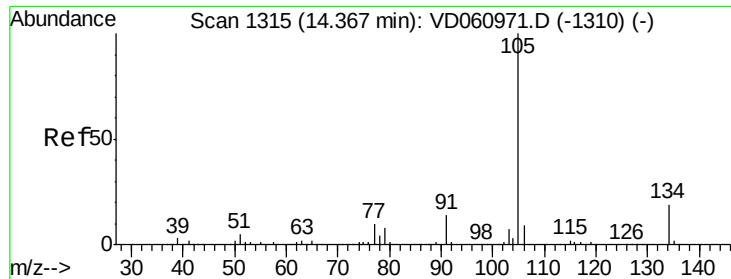
Tot Ion: 91 Resp: 550
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.0 54.0#



#84
 1,2,4-Trimethylbenzene
 Concen: 1.138 ug/l
 RT: 14.23 min Scan# 1301
 Delta R.T. -0.00 min
 Lab File: VD061227.D
 Acq: 21 Mar 2019 1:53

Tgt Ion: 105 Resp: 490
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.9 68.5#





#85

sec-Butylbenzene

Concen: 1.375 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VD061227.D

Acq: 21 Mar 2019 1:53

Instrument :

MSVOA_D

ClientSampleId :

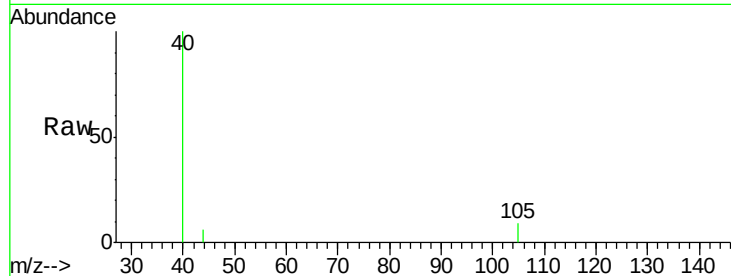
JC-02-031919-A

Tot Ion:105 Resp: 791

Ion Ratio Lower Upper

105 100

134 0.0 9.4 28.2#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.37

800

600

400

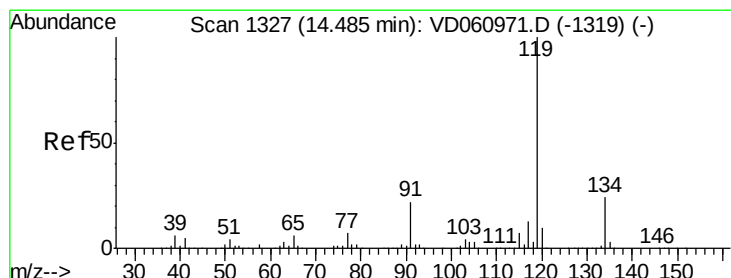
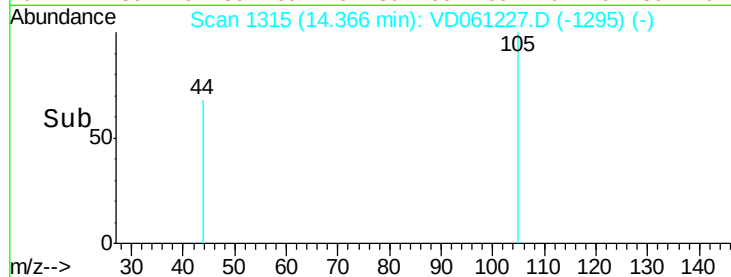
200

0

14.35

14.40

Time-->



#86

p-Isopropyltoluene

Concen: 1.353 ug/l

RT: 14.48 min Scan# 1327

Delta R.T. -0.00 min

Lab File: VD061227.D

Acq: 21 Mar 2019 1:53

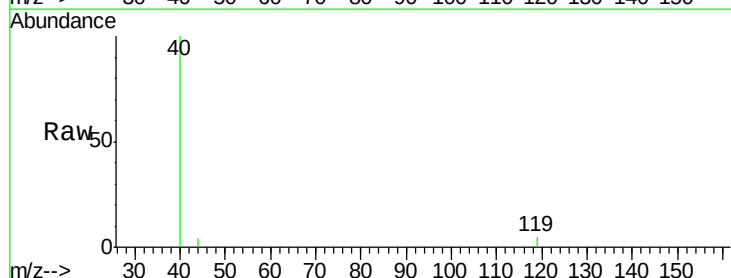
Tgt Ion:119 Resp: 636

Ion Ratio Lower Upper

119 100

134 0.0 12.0 36.1#

91 0.0 11.2 33.6#



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

14.48

800

600

400

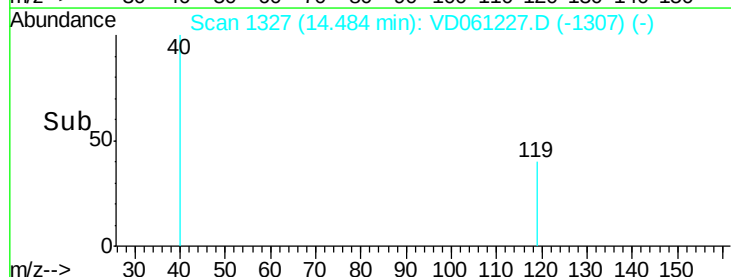
200

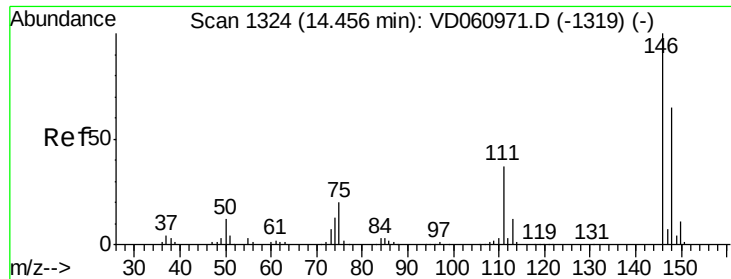
0

14.45

14.50

Time-->

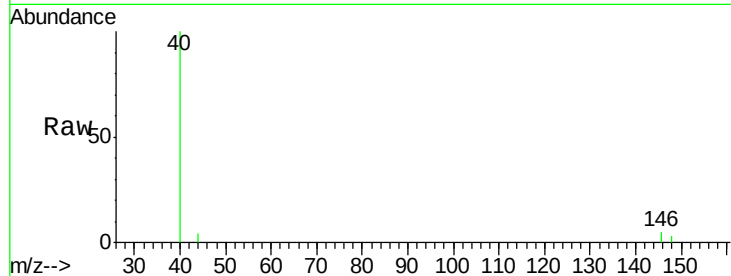




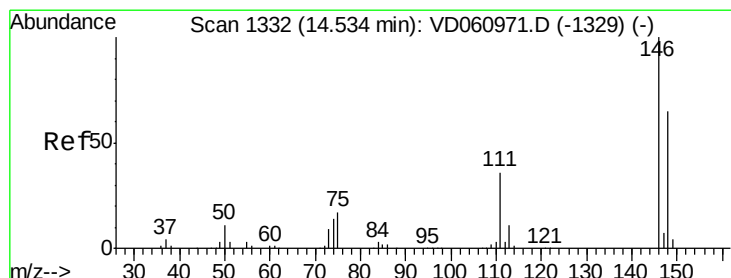
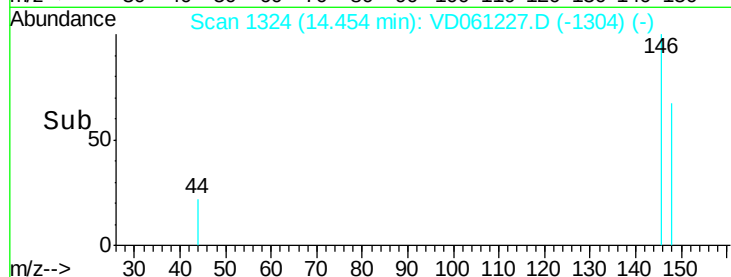
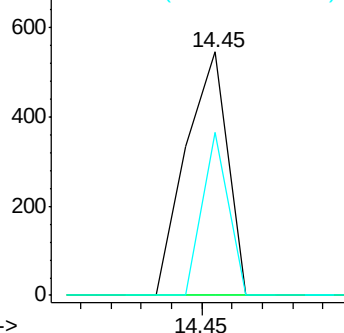
#87
 1,3-Dichlorobenzene
 Concen: 2.012 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VD061227.D
 Acq: 21 Mar 2019 1:53

Instrument :
 MSVOA_D
 ClientSampleId :
 JC-02-031919-A

Tot Ion:146 Resp: 520
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.4 55.4#
 148 66.8 32.5 97.4

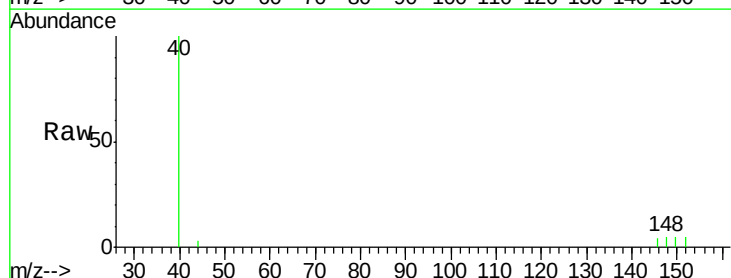


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

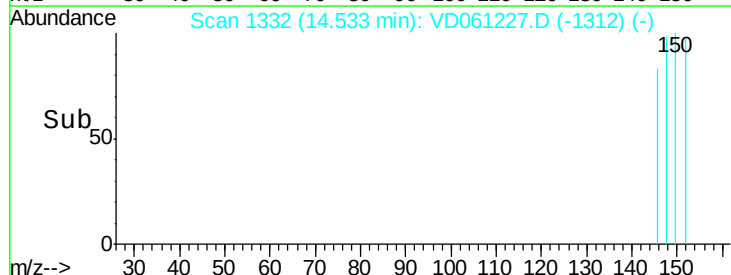
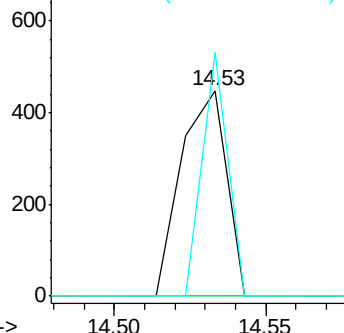


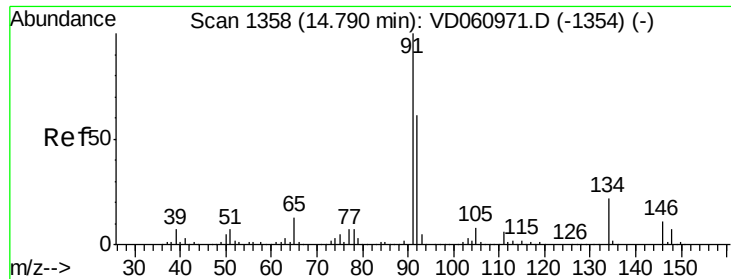
#88
 1,4-Dichlorobenzene
 Concen: 1.858 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VD061227.D
 Acq: 21 Mar 2019 1:53

Tgt Ion:146 Resp: 472
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.4 55.2#
 148 118.5 32.5 97.5#



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 1.661 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VD061227.D

Acq: 21 Mar 2019 1:53

Instrument :

MSVOA_D

ClientSampleId :

JC-02-031919-A

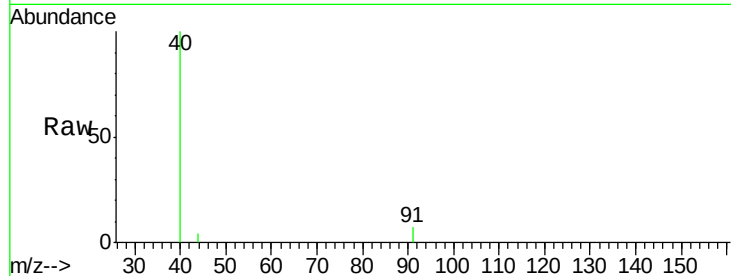
Tot Ion: 91 Resp: 750

Ion Ratio Lower Upper

91 100

92 0.0 30.6 91.8#

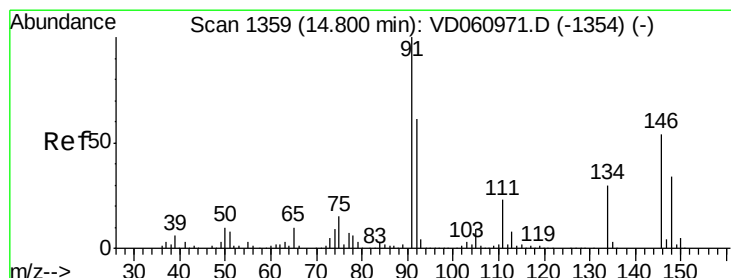
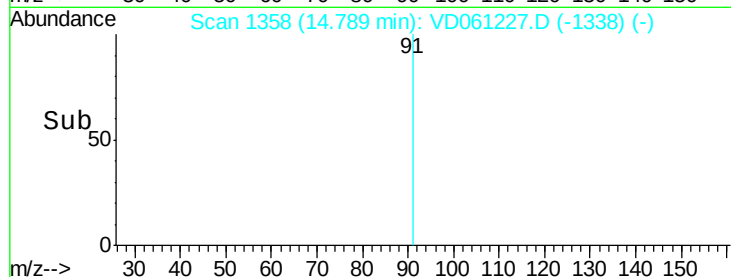
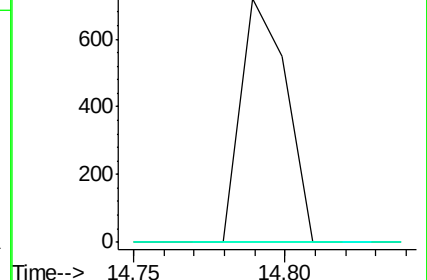
134 0.0 11.0 33.0#



Abundance Ion 91.00 (90.70 to 91.70): VD060971.D (-1354) (-)

Ion 92.00 (91.70 to 92.70): VD060971.D (-1354) (-)

Ion 134.10 (133.80 to 134.80): VD060971.D (-1354) (-)



#91

1,2-Dichlorobenzene

Concen: 2.097 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VD061227.D

Acq: 21 Mar 2019 1:53

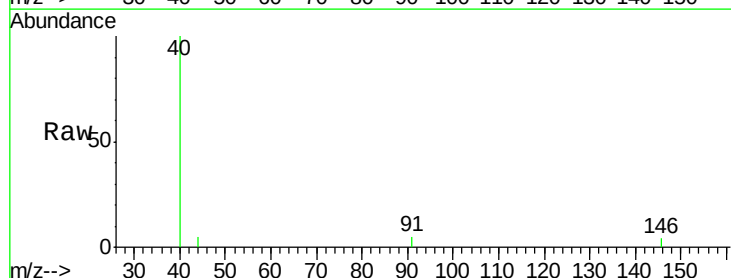
Tgt Ion: 146 Resp: 452

Ion Ratio Lower Upper

146 100

111 0.0 21.5 64.5#

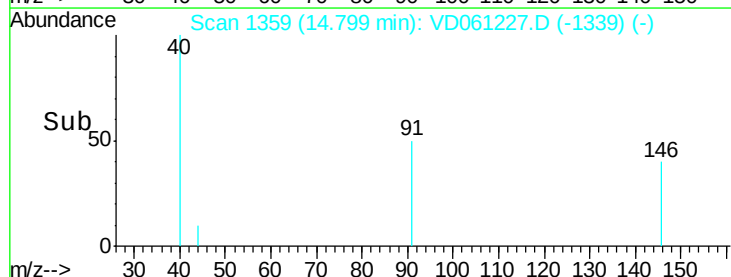
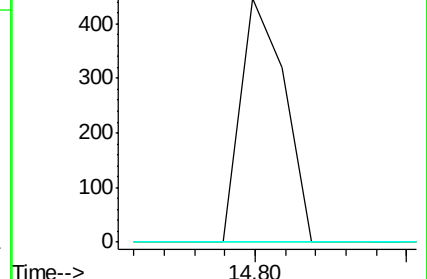
148 0.0 30.9 92.8#

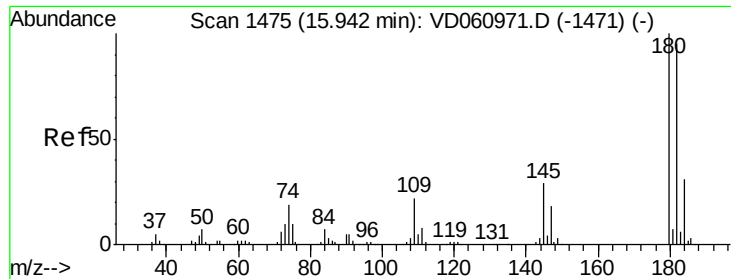


Abundance Ion 145.95 (145.65 to 146.65): VD060971.D (-1354) (-)

Ion 110.90 (110.60 to 111.60): VD060971.D (-1354) (-)

Ion 147.90 (147.60 to 148.60): VD060971.D (-1354) (-)

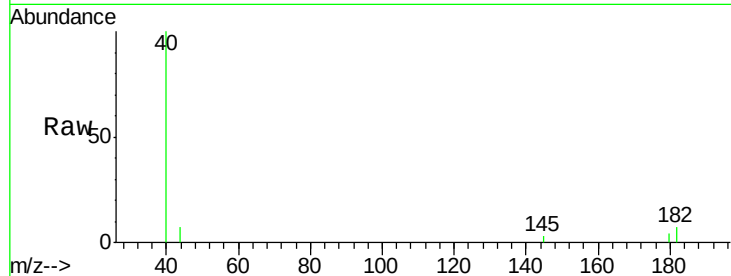




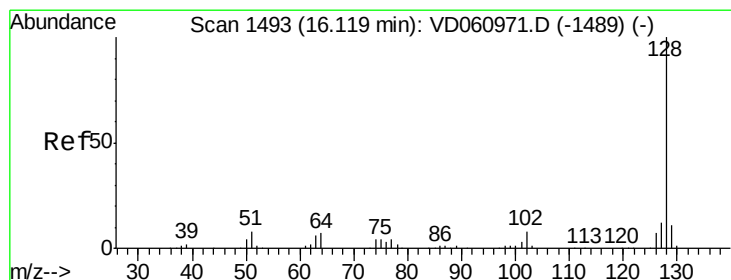
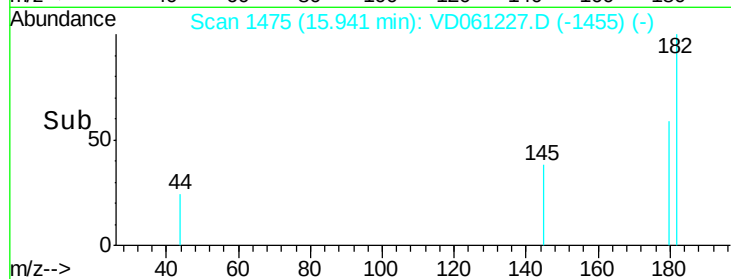
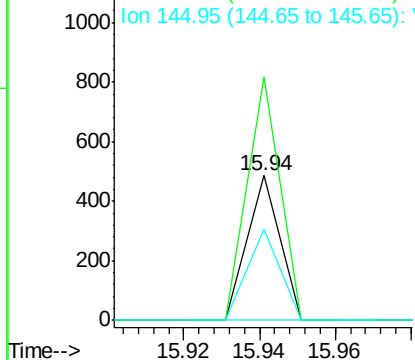
#93
 1,2,4-Trichlorobenzene
 Concen: 2.871 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD061227.D
 Acq: 21 Mar 2019 1:53

Instrument :
 MSVOA_D
 ClientSampleId :
 JC-02-031919-A

Tot Ion:180 Resp: 287
 Ion Ratio Lower Upper
 180 100
 182 168.7 47.3 142.0#
 145 63.5 14.4 43.0#

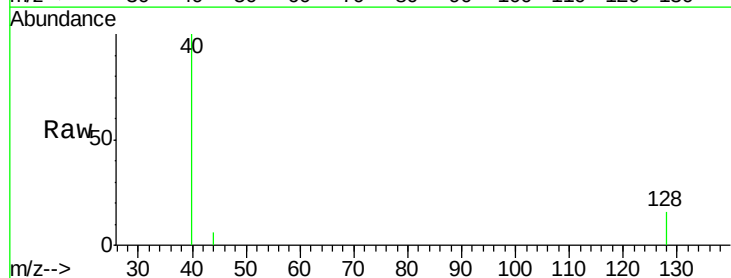


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

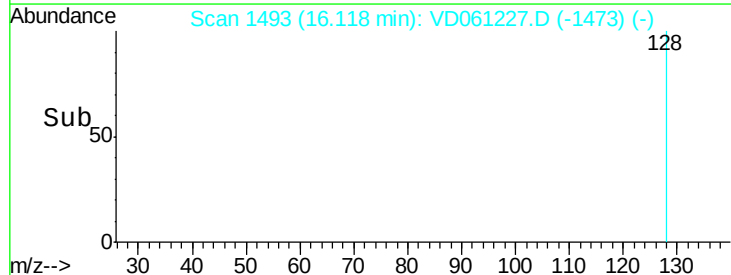
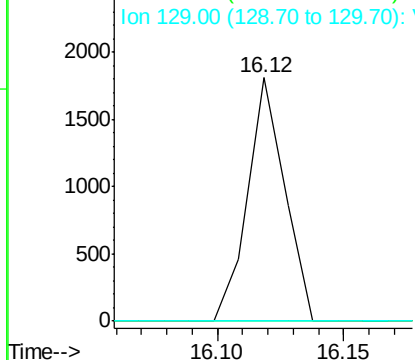


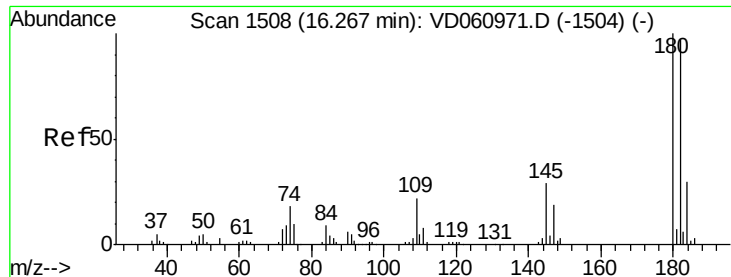
#95
 Naphthalene
 Concen: 12.138 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VD061227.D
 Acq: 21 Mar 2019 1:53

Tgt Ion:128 Resp: 1844
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.8 14.8#
 129 0.0 8.5 12.7#



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





#96

1,2,3-Trichlorobenzene

Concen: 4.840 ug/l

RT: 16.27 min Scan# 1508

Delta R.T. -0.00 min

Lab File: VD061227.D

Acq: 21 Mar 2019 1:53

Instrument :

MSVOA_D

ClientSampleId :

JC-02-031919-A

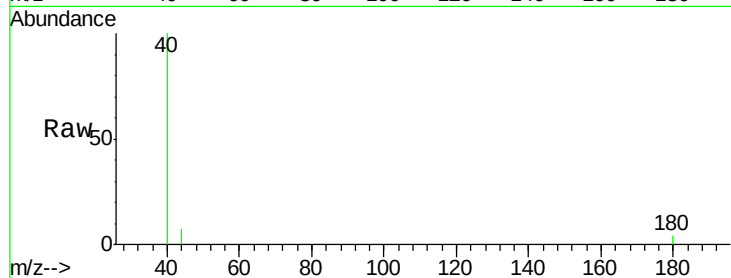
Tot Ion:180 Resp: 239

Ion Ratio Lower Upper

180 100

182 0.0 48.6 145.8#

145 0.0 14.3 42.9#



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

