

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 : 7.60q/5ml/MSVOA D/SOIL
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

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%	

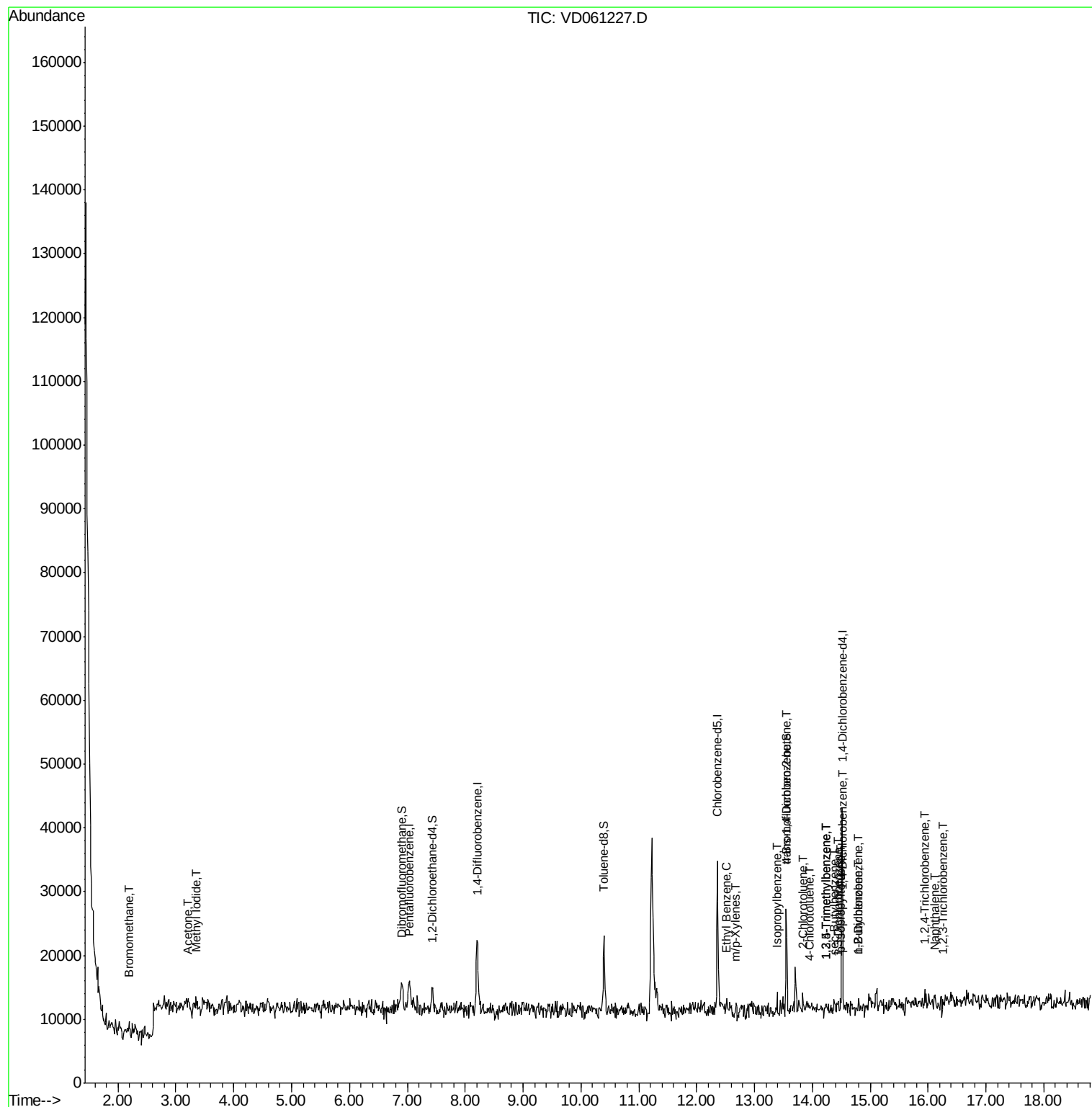
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.19	94	222	17.339	ug/l #	8
10) Methyl Iodide	3.35	142	1728	14.695	ug/l #	87
16) Acetone	3.21	43	1474	75.510	ug/l #	48
20) Methylene Chloride	3.81	84	199	Below Cal	#	4
67) Ethyl Benzene	12.52	91	770	1.576	ug/l #	43
68) m/p-Xylenes	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

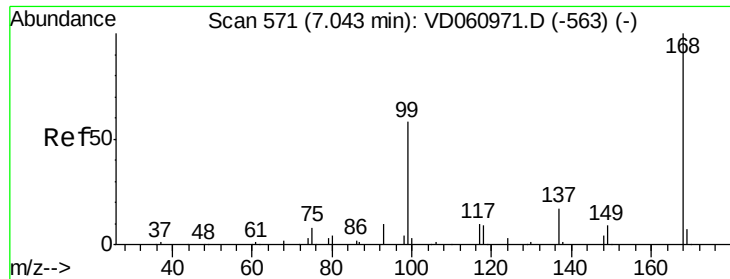
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Mar 22 02:06:33 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#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 :

MSVOA_D

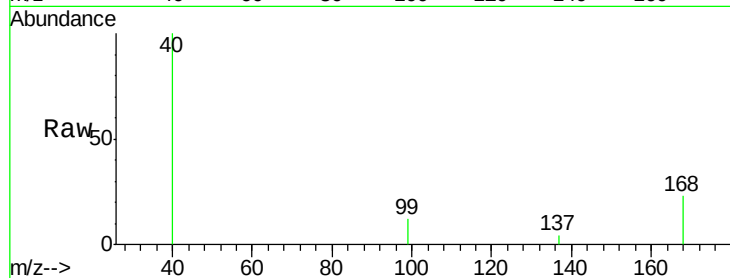
ClientSampleId :

Tot Ion:168 Resp: 8201

Ion Ratio Lower Upper

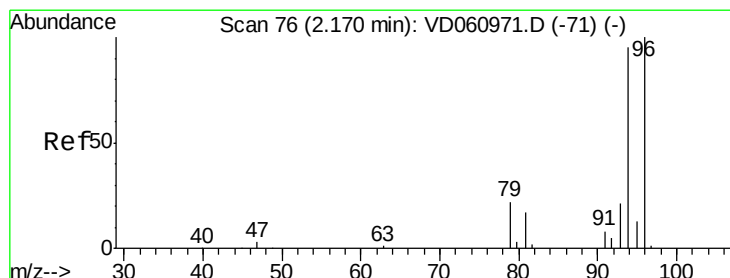
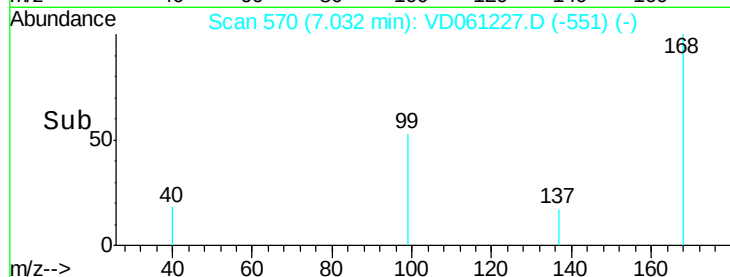
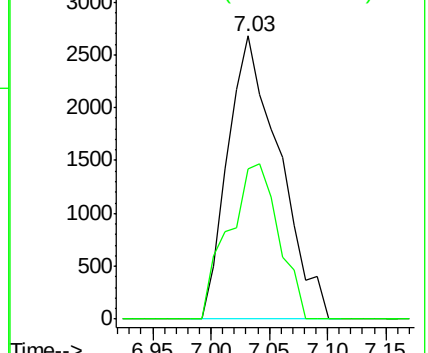
168 100

99 53.3 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#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

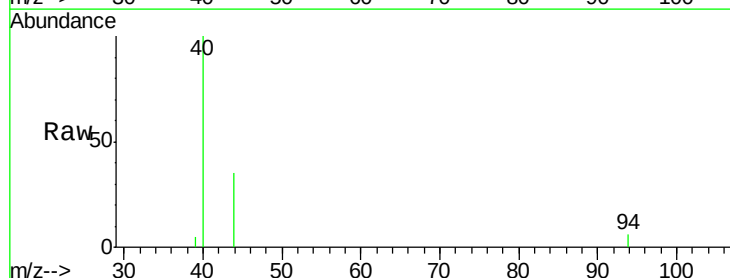
Tgt Ion: 94 Resp: 222

Ion Ratio Lower Upper

94 100

96 0.0 84.0 126.0#

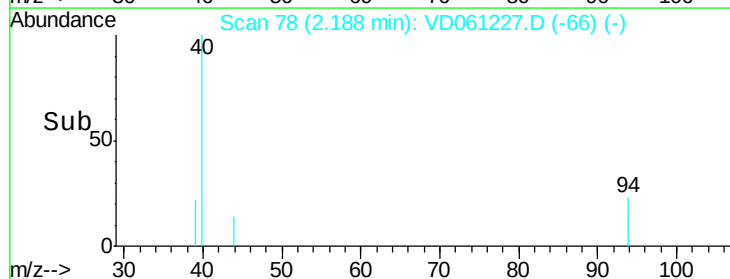
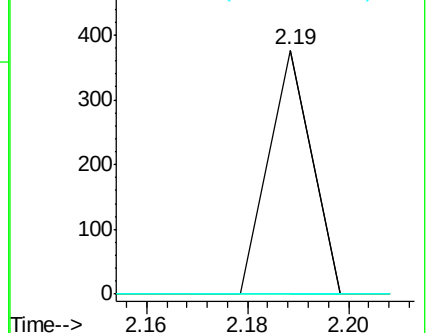
93 0.0 17.3 25.9#

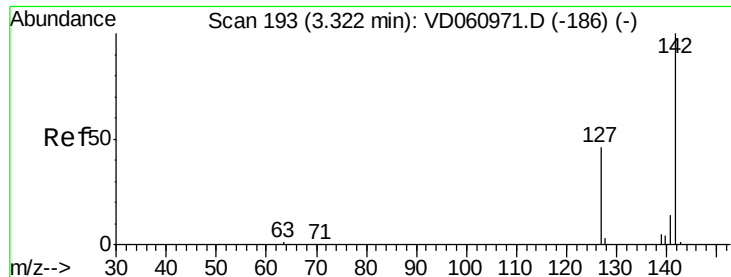


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

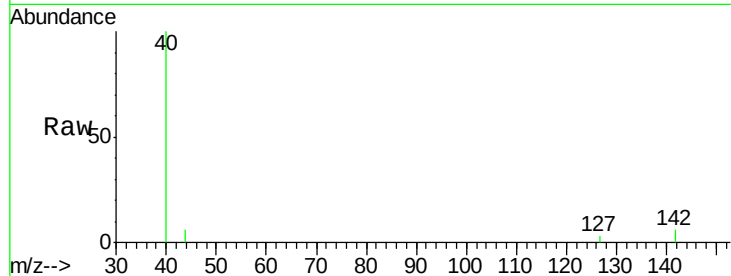




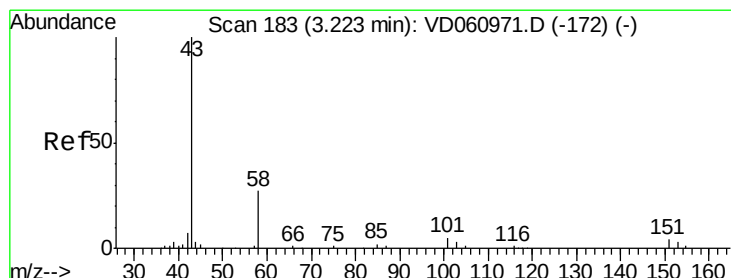
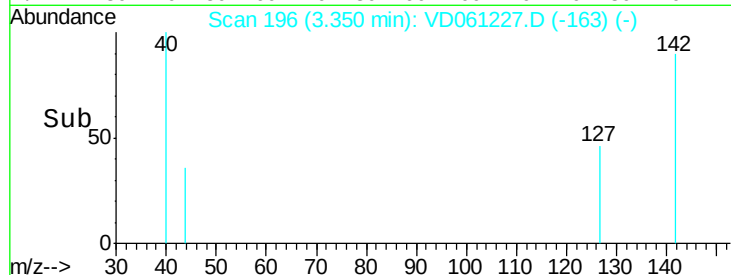
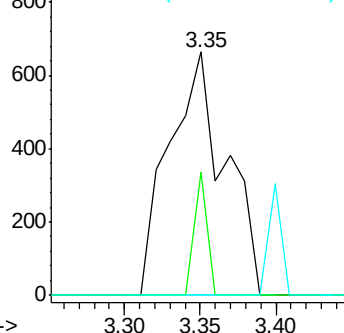
#10
Methvl Iodide
Concen: 14.695 ug/l
RT: 3.35 min Scan# 196
Delta R.T. 0.03 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

Instrument :
MSVOA_D
ClientSampleId :

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#

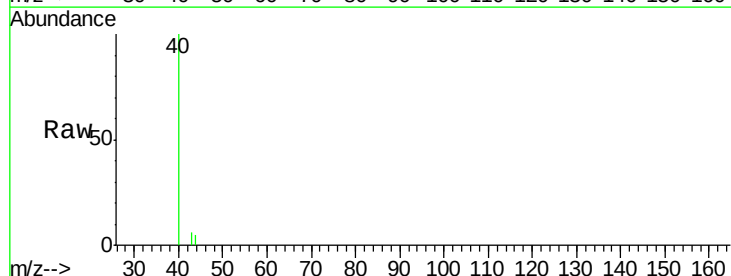


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

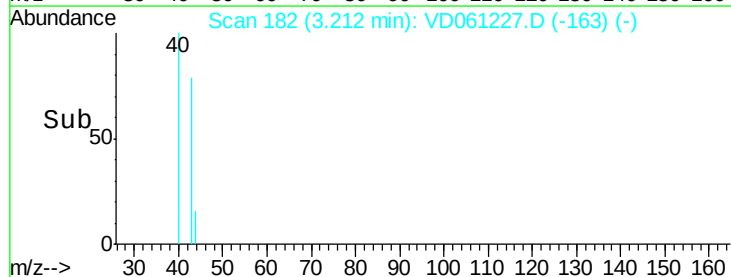
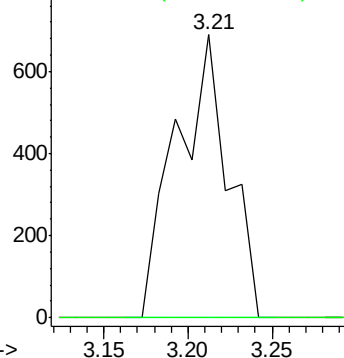


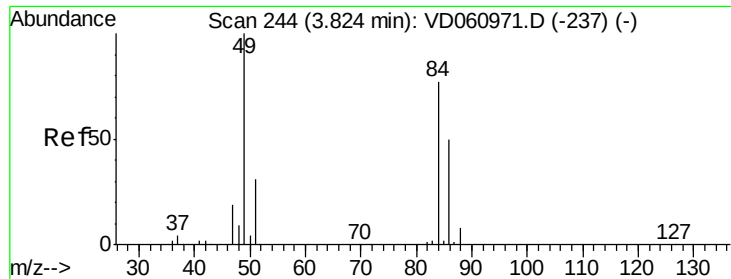
#16
Acetone
Concen: 75.510 ug/l
RT: 3.21 min Scan# 182
Delta R.T. -0.01 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

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



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

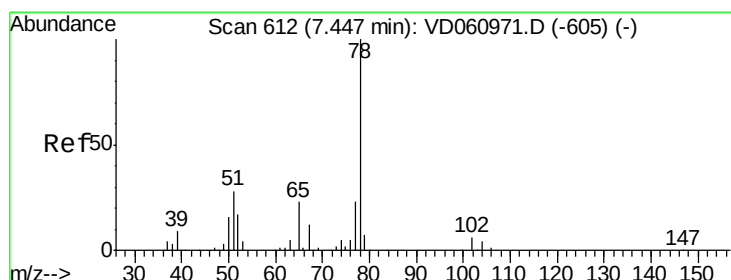
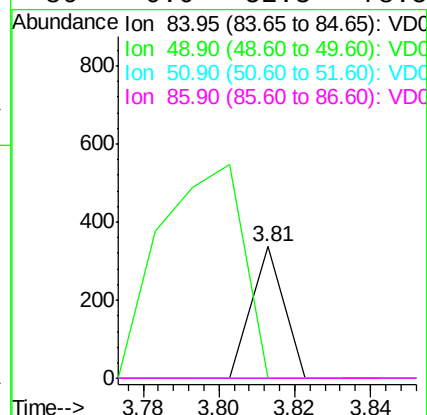
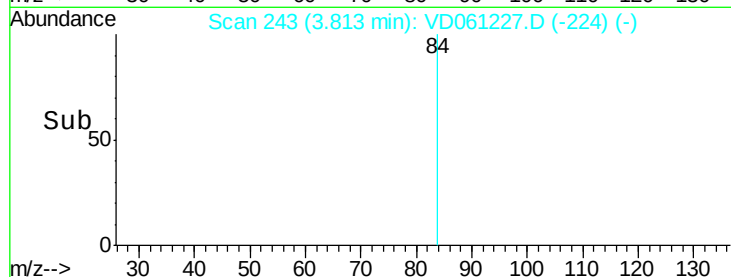
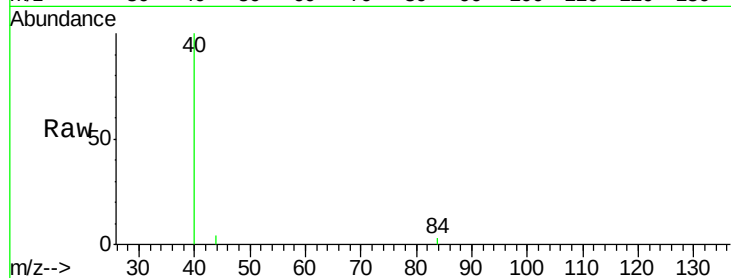




#20
Methylene Chloride
Concen: Below Cal
RT: 3.81 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

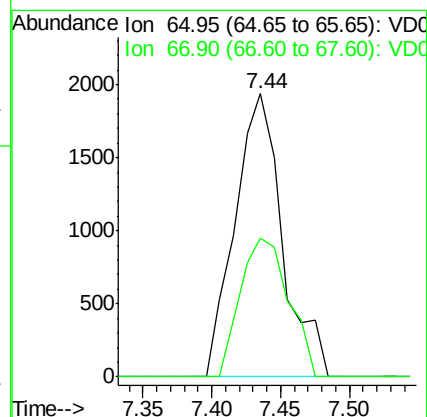
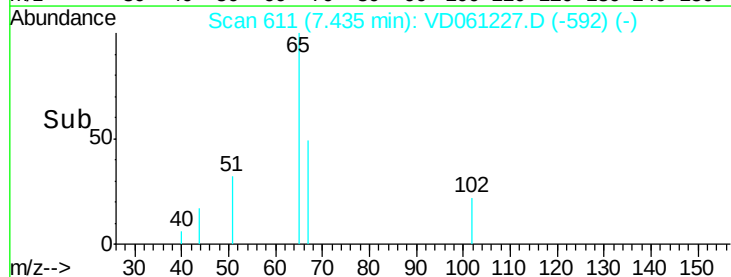
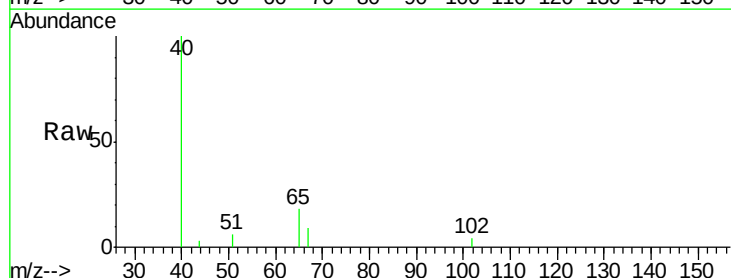
Instrument :
MSVOA_D
ClientSampleId :

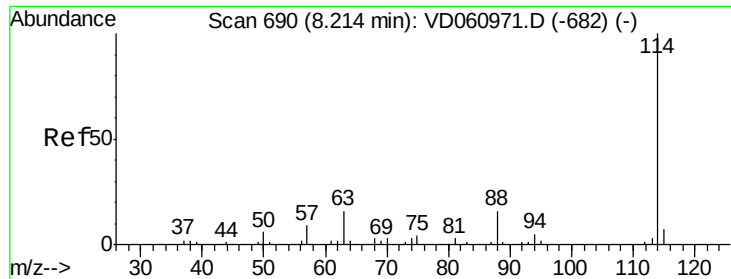
Tot Ion	Ratio	Lower	Upper
84	100		
49	0.0	104.2	156.2#
51	0.0	32.3	48.5#
86	0.0	52.3	78.5#



#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	Ratio	Lower	Upper
65	100		
67	48.8	0.0	105.2

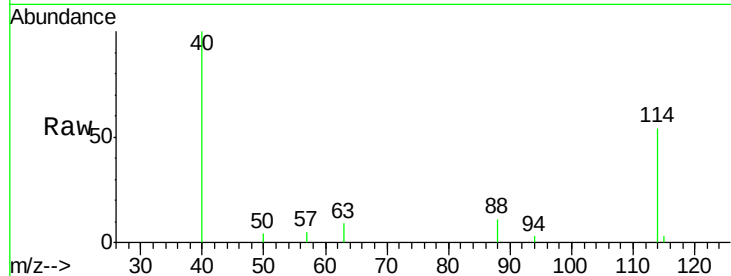




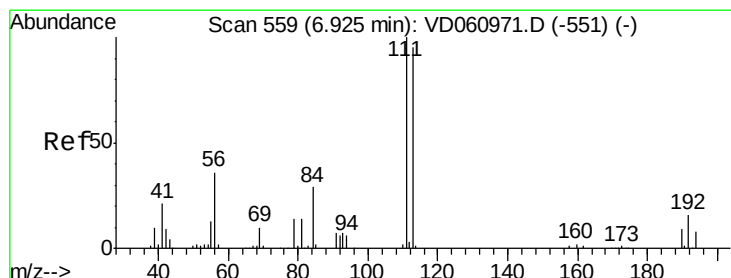
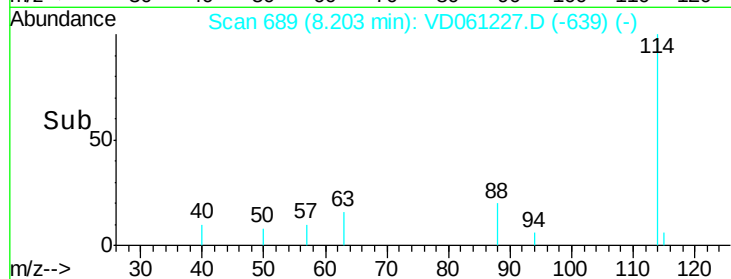
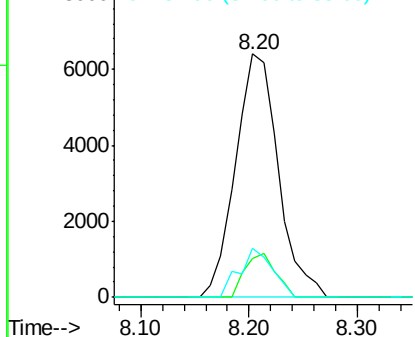
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VD061227.D
 Acq: 21 Mar 2019 1:53

Instrument :
 MSVOA_D
 ClientSampleId :

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

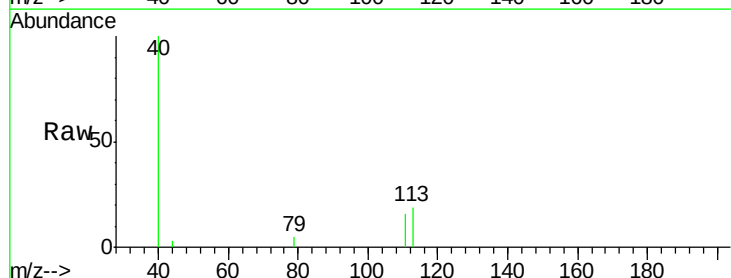


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

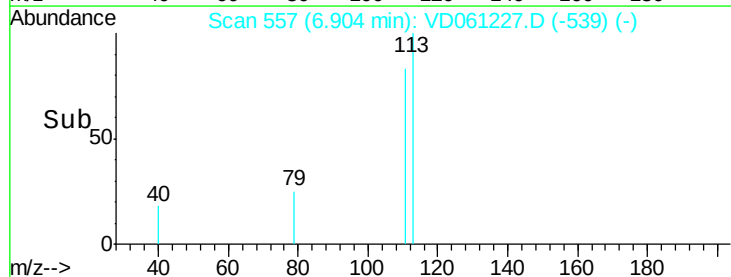
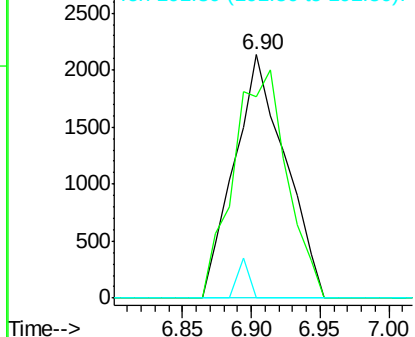


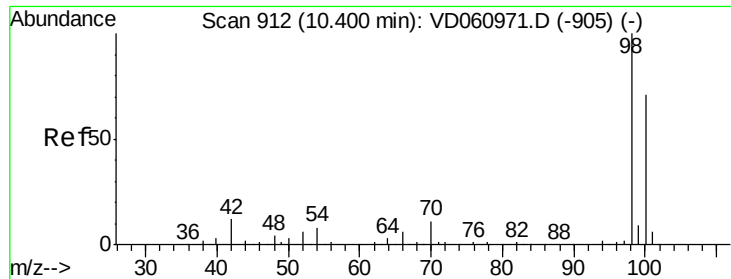
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.90 min Scan# 557
 Delta R.T. -0.02 min
 Lab File: VD061227.D
 Acq: 21 Mar 2019 1:53

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

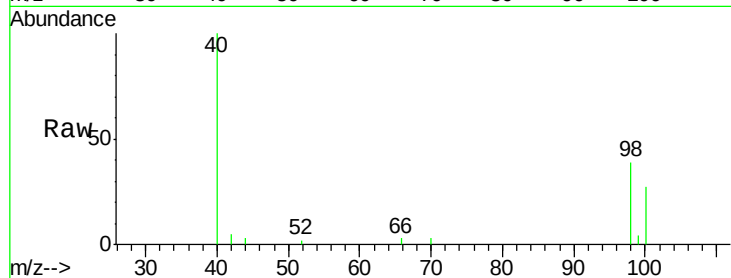
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 11925

Ion Ratio Lower Upper

98 100

100 69.9 57.4 86.2

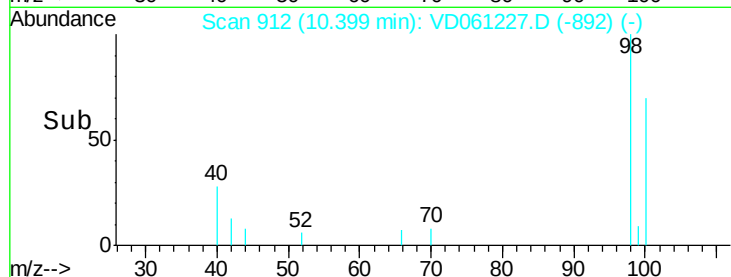


Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

10.40

Time-->

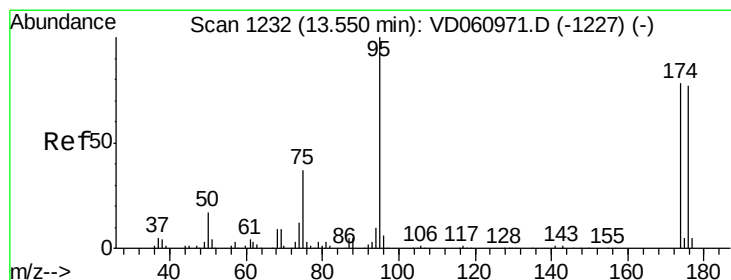


Abundance Ion 98.05 (97.75 to 98.75): VD061227.D (-892) (-)

Ion 100.05 (99.75 to 100.75): VD061227.D (-892) (-)

10.40

Time-->



#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

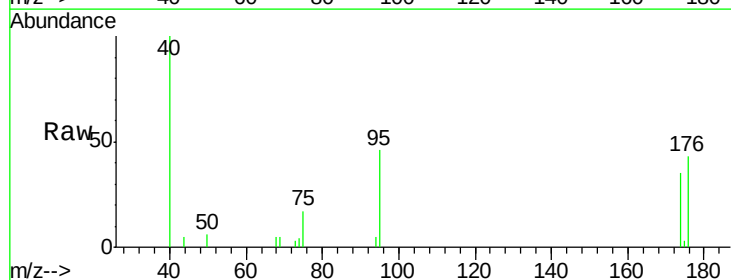
Tgt Ion: 95 Resp: 5764

Ion Ratio Lower Upper

95 100

174 76.4 0.0 155.6

176 93.4 0.0 153.8



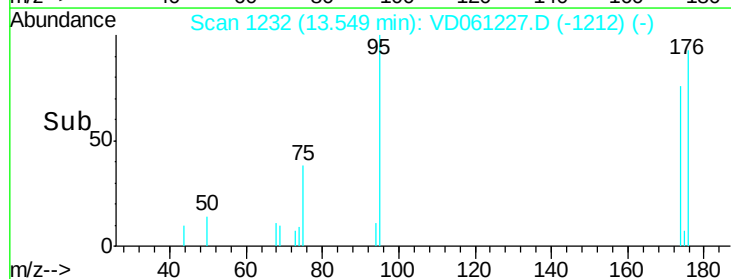
Abundance Ion 95.00 (94.70 to 95.70): VD060971.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD060971.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD060971.D (-1227) (-)

13.55

Time-->



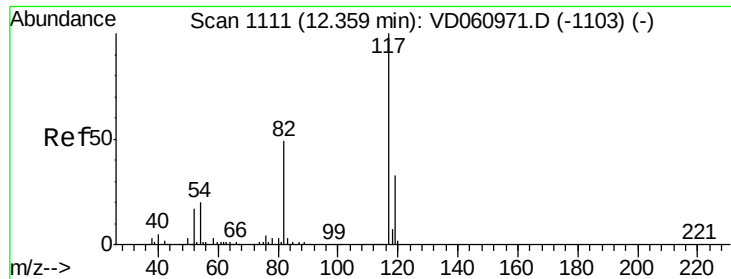
Abundance Ion 95.00 (94.70 to 95.70): VD061227.D (-1212) (-)

Ion 173.90 (173.60 to 174.60): VD061227.D (-1212) (-)

Ion 175.90 (175.60 to 176.60): VD061227.D (-1212) (-)

13.55

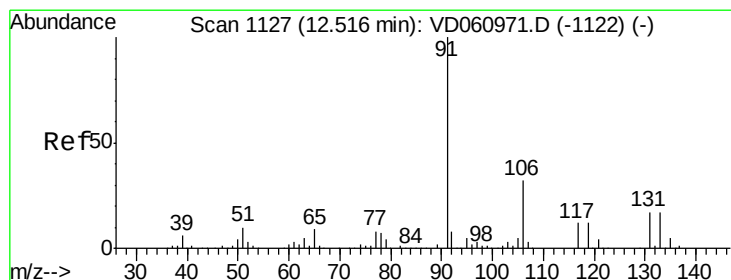
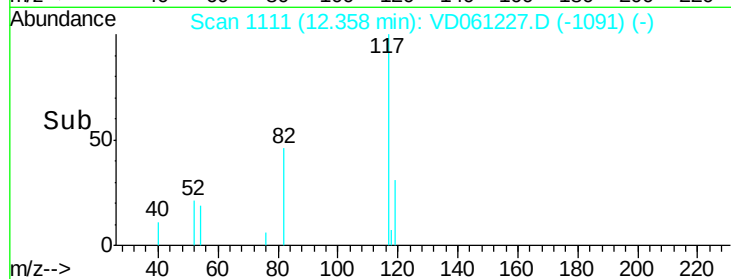
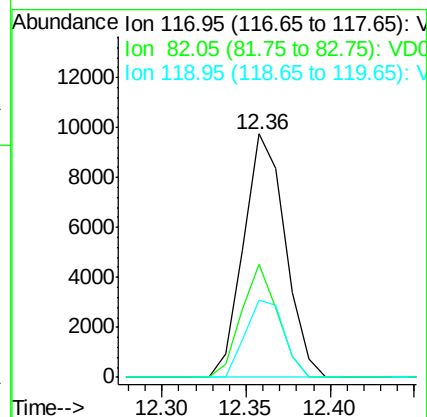
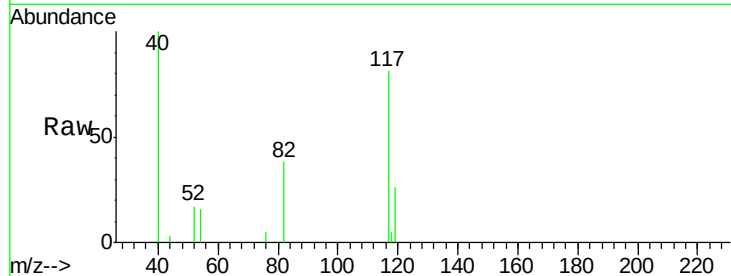
Time-->



#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

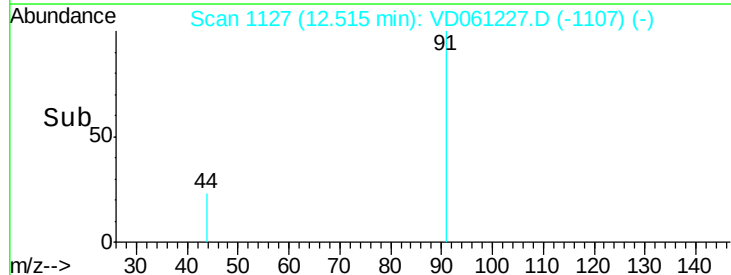
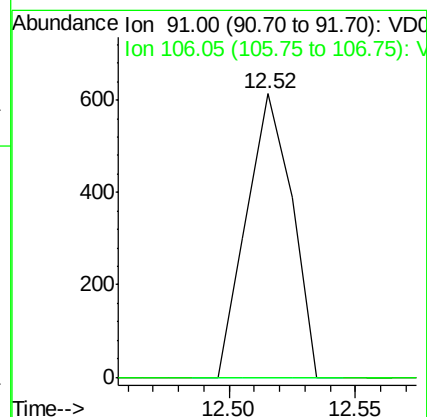
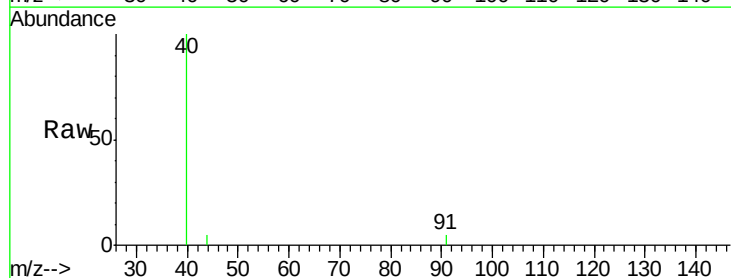
Instrument :
MSVOA_D
ClientSampleId :

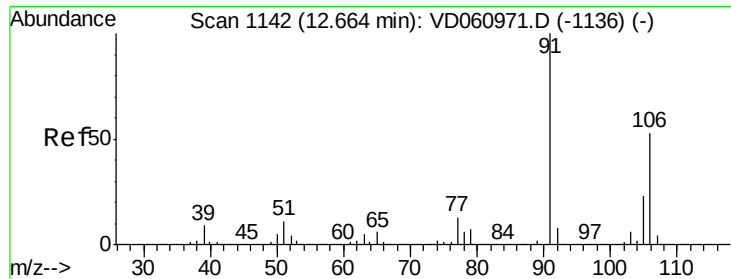
Tot Ion:117 Resp: 16743
Ion Ratio Lower Upper
117 100
82 46.4 38.9 58.3
119 31.5 26.6 39.8



#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#

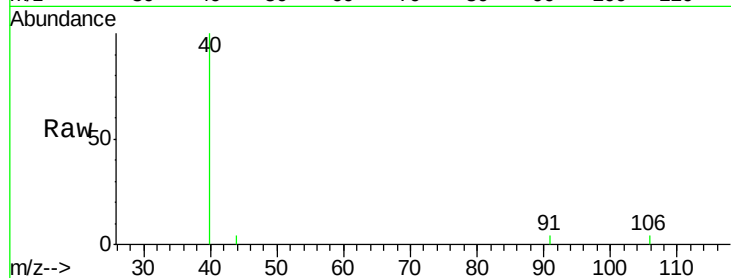




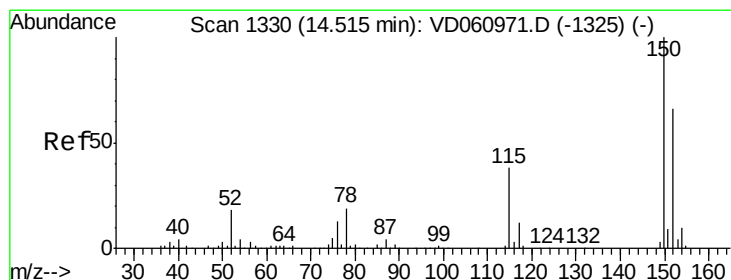
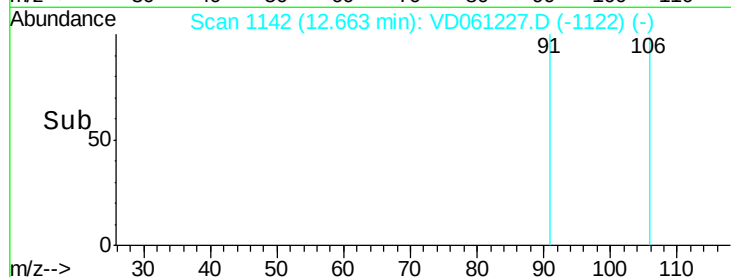
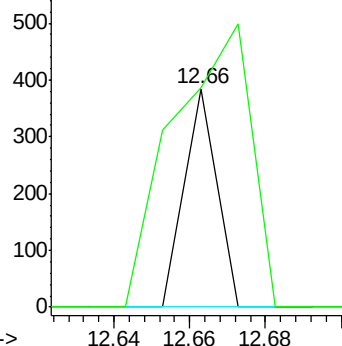
#68
m/p-Xvlenes
Concen: 1.184 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

Instrument :
MSVOA_D
ClientSampled :

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

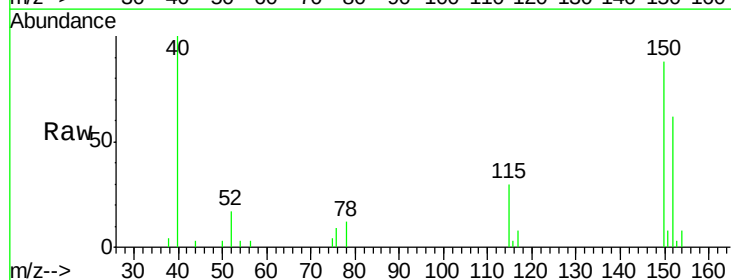


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

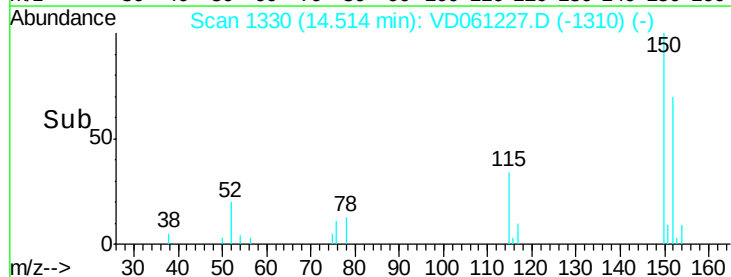
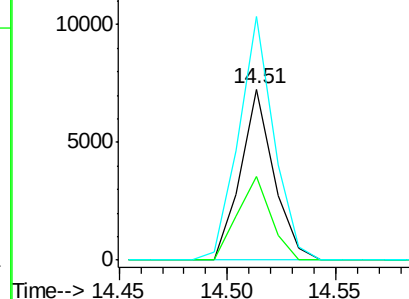


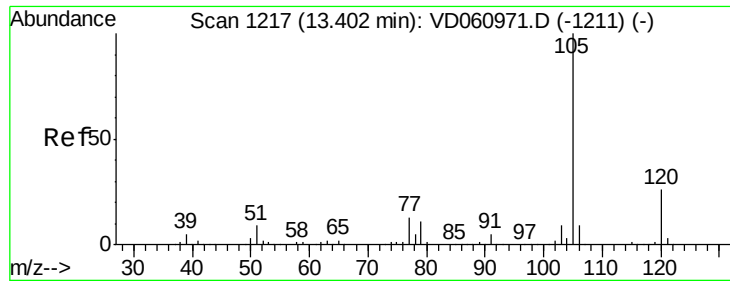
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD061227.D
Acq: 21 Mar 2019 1:53

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

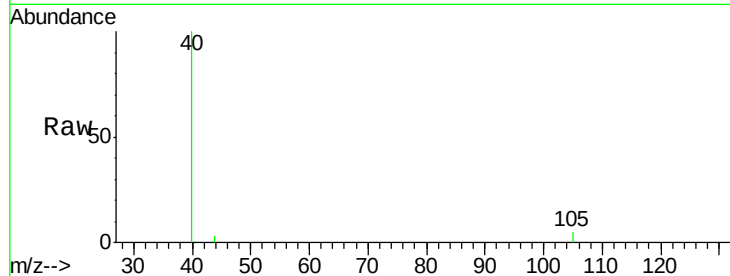
ClientSampleId :

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

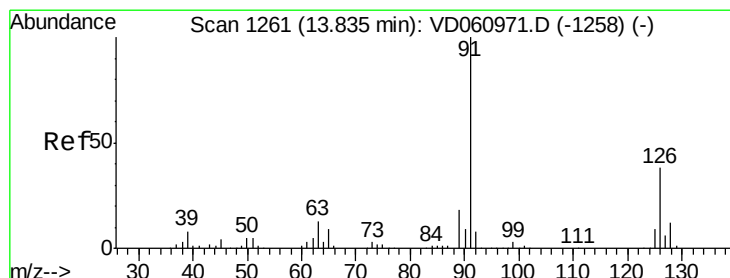
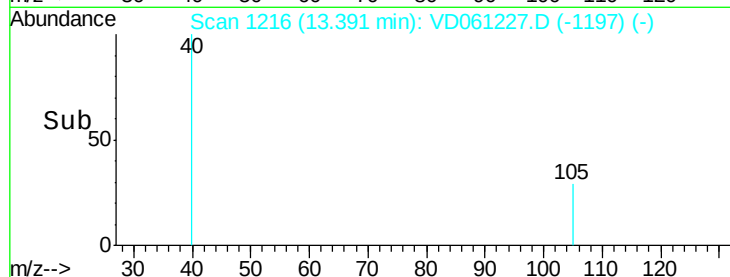
600

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

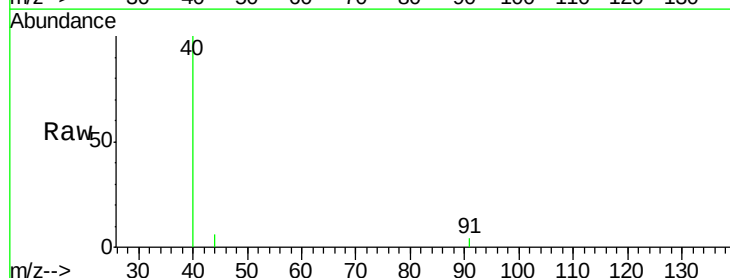
Acq: 21 Mar 2019 1:53

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

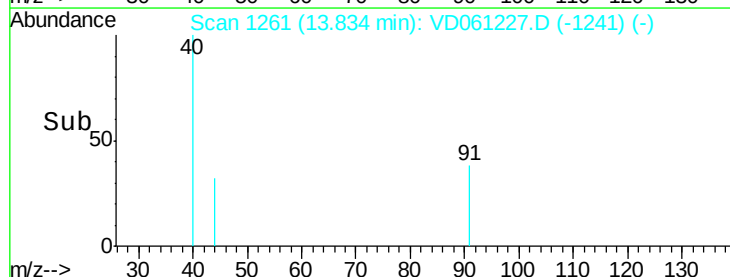
300

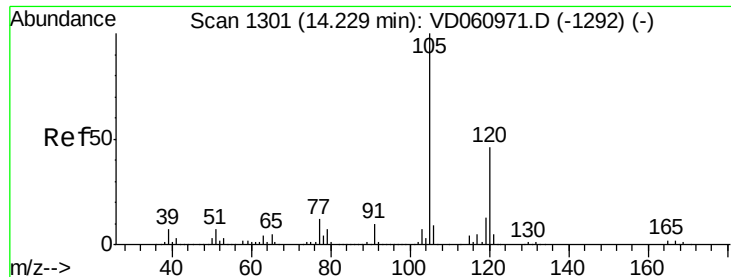
200

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

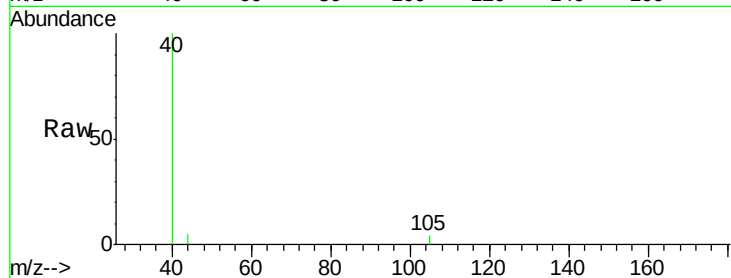
ClientSampleId :

Tot Ion:105 Resp: 490

Ion Ratio Lower Upper

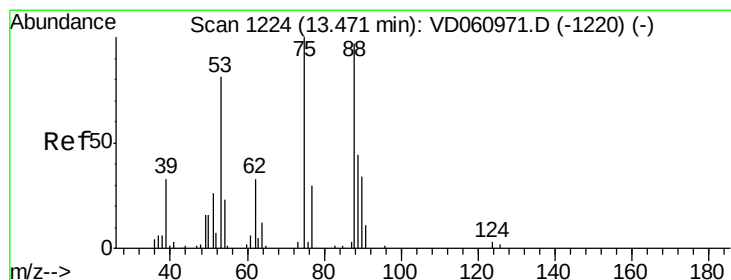
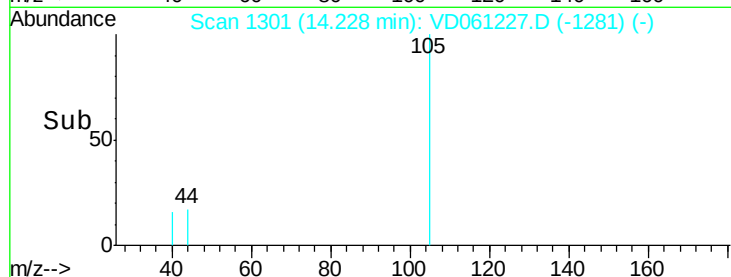
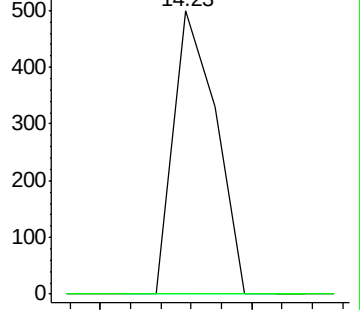
105 100

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



#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

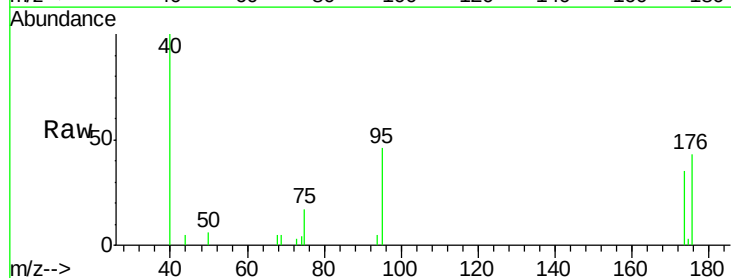
Tgt Ion: 75 Resp: 1708

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

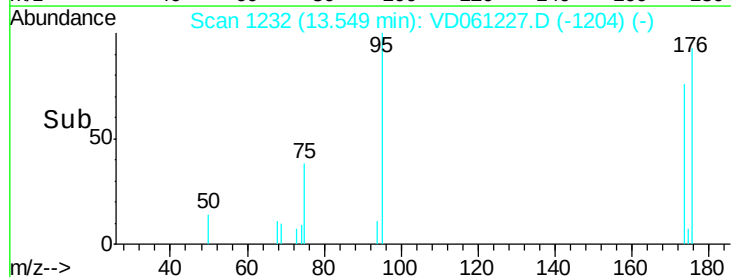
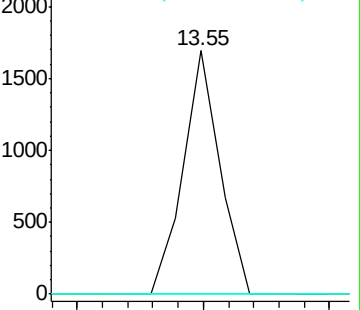
89 0.0 34.8 52.2#

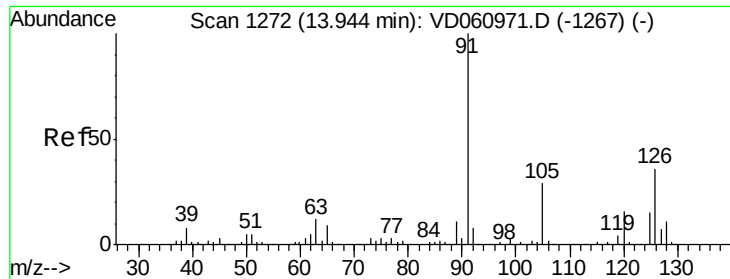


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#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

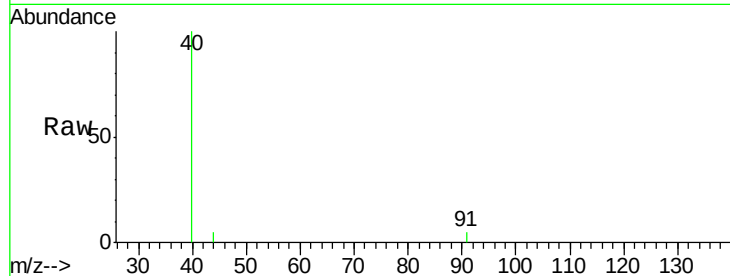
ClientSampleId :

Tot Ion: 91 Resp: 550

Ion Ratio Lower Upper

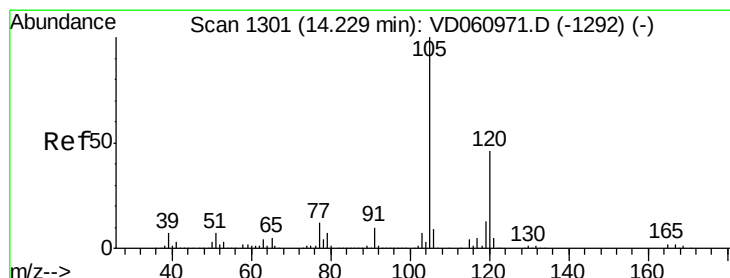
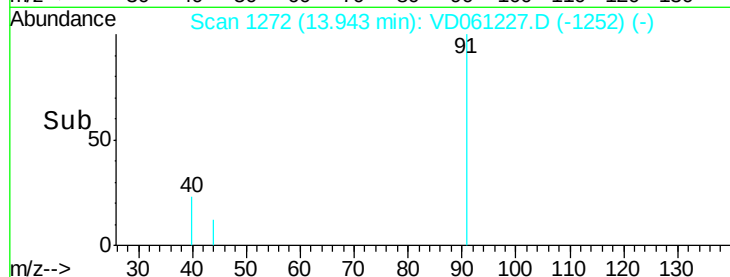
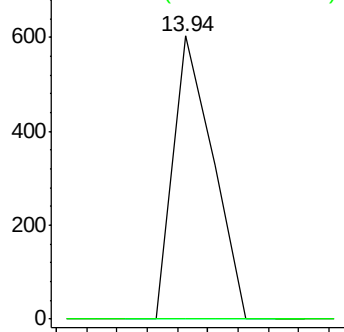
91 100

126 0.0 18.0 54.0#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#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

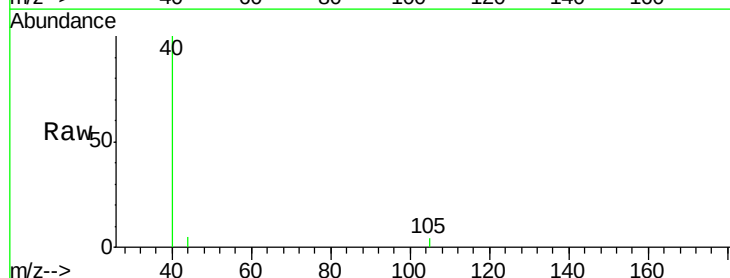
Acq: 21 Mar 2019 1:53

Tgt Ion: 105 Resp: 490

Ion Ratio Lower Upper

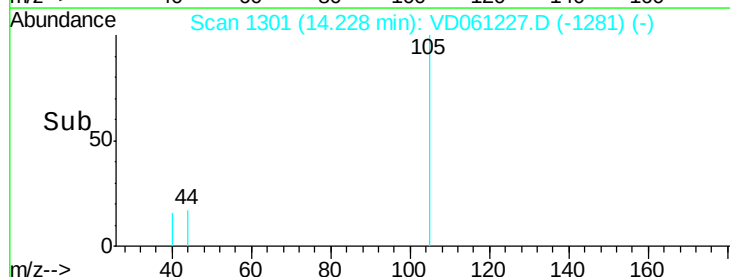
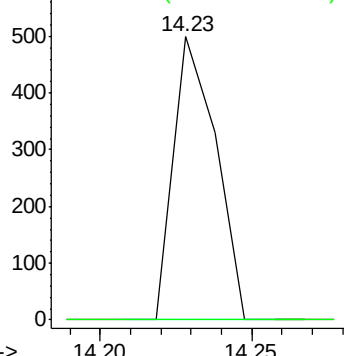
105 100

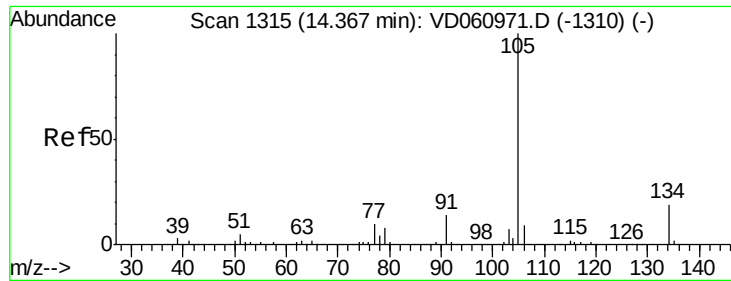
120 0.0 22.9 68.5#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

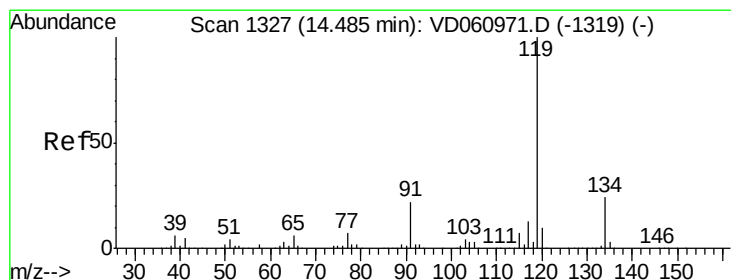
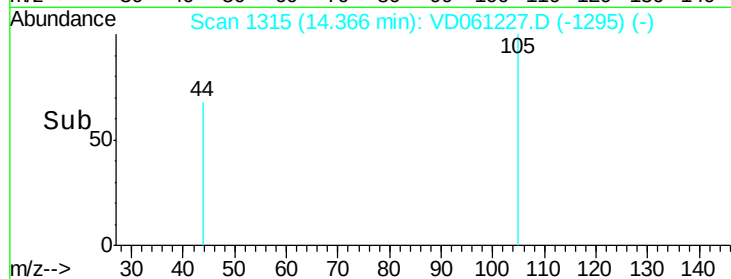
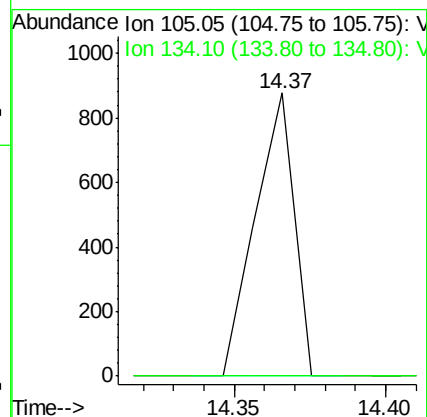
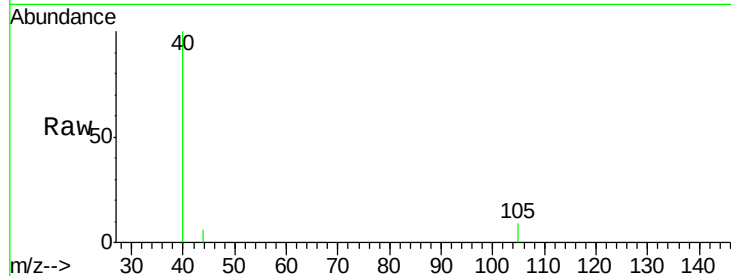




#85
 sec-Butylbenzene
 Concen: 1.375 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VD061227.D
 Acq: 21 Mar 2019 1:53

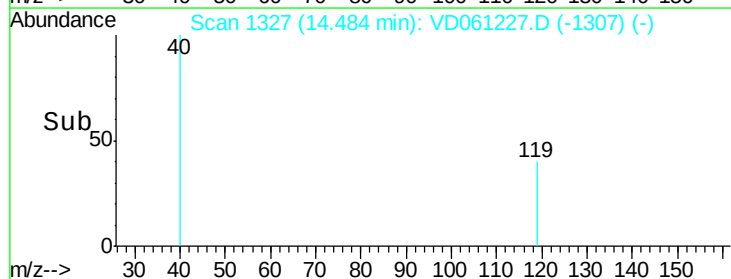
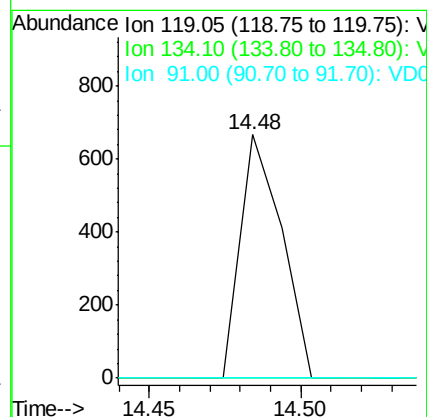
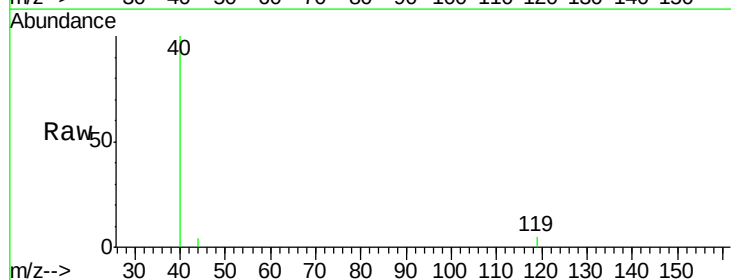
Instrument :
 MSVOA_D
 ClientSampleId :

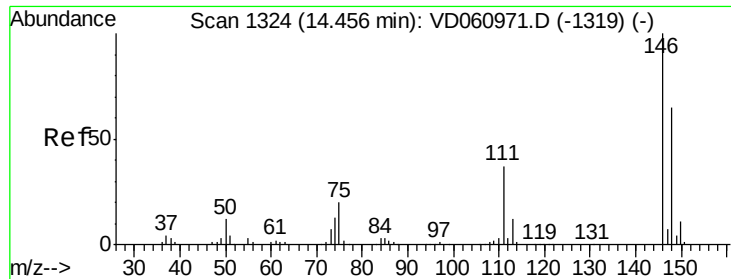
Tot Ion:105 Resp: 791
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.4 28.2#



#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#

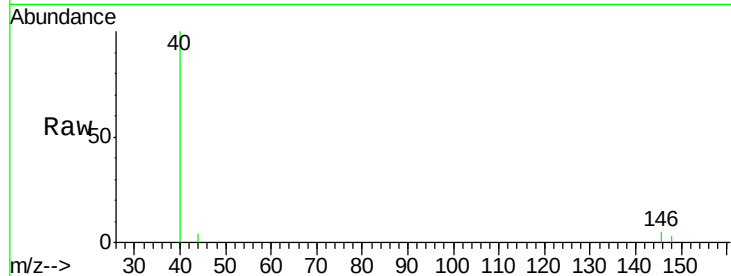




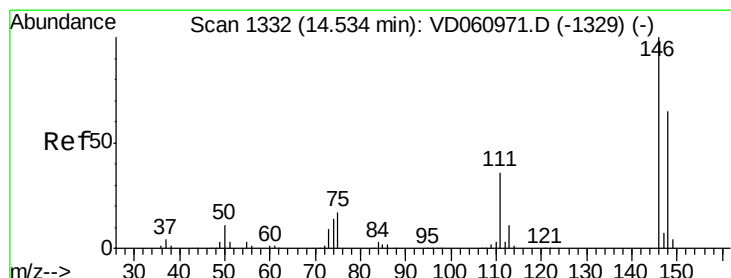
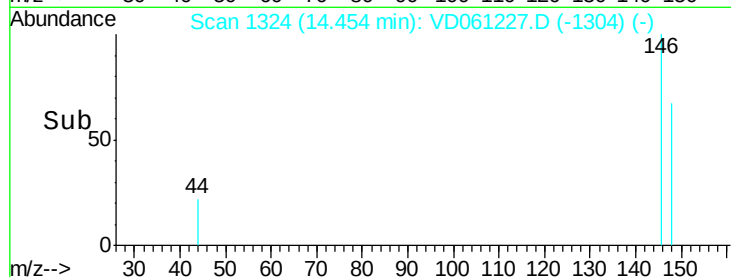
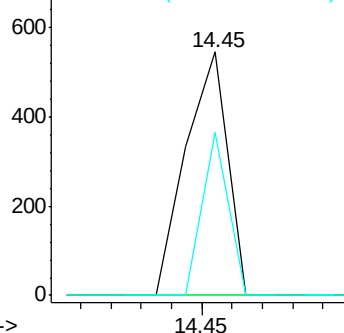
#87
 1,3-Dichlorobenzene
 Concen: 2.012 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VD061227.D
 Acq: 21 Mar 2019 1:53

Instrument :
 MSVOA_D
 ClientSampleId :

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

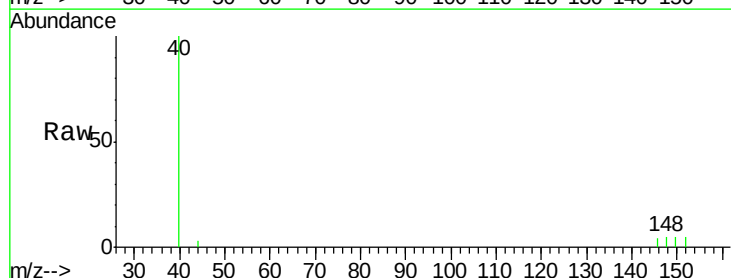


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

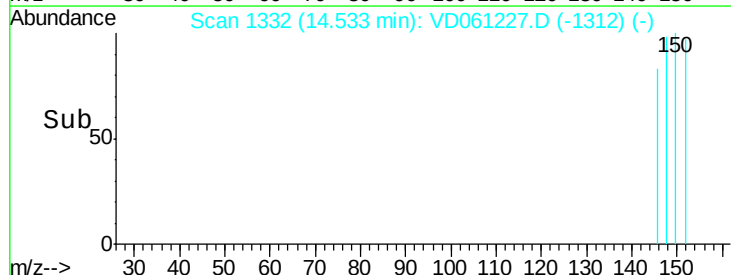
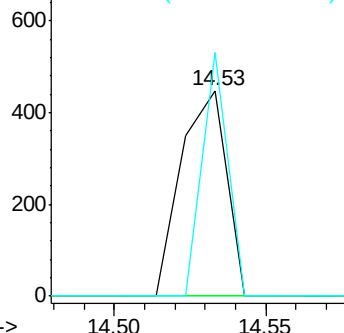


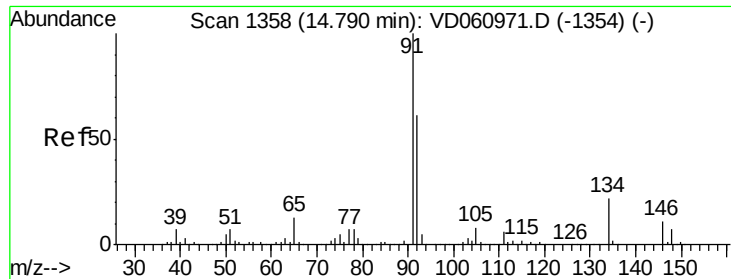
#88
 1,4-Dichlorobenzene
 Concen: 1.858 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VD061227.D
 Acq: 21 Mar 2019 1:53

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

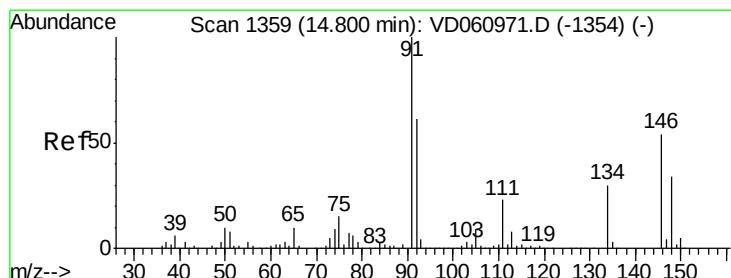
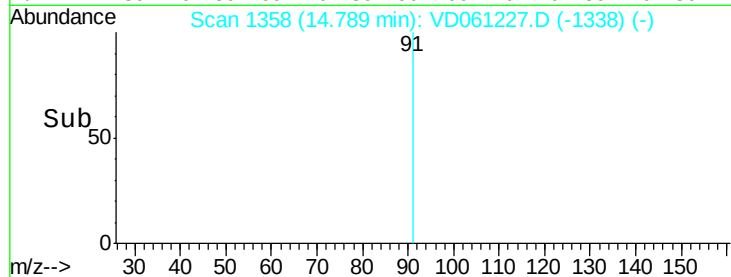
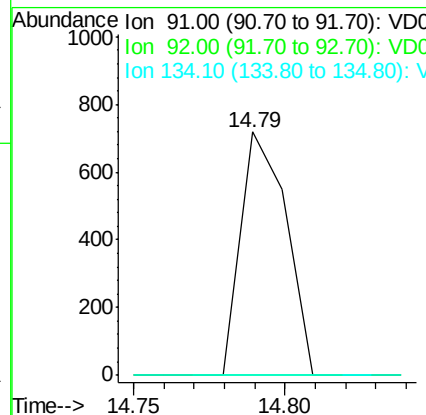
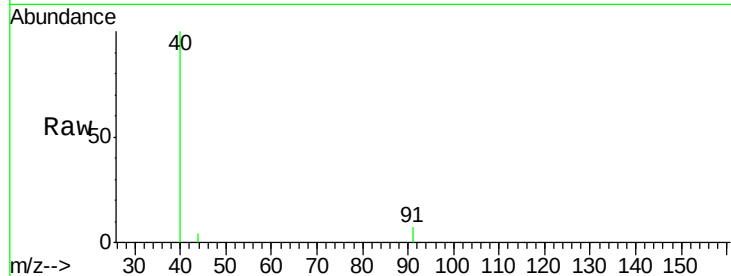
Acq: 21 Mar 2019 1:53

Instrument :

MSVOA_D

ClientSampleId :

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#



#91

1,2-Dichlorobenzene

Concen: 2.097 ug/l

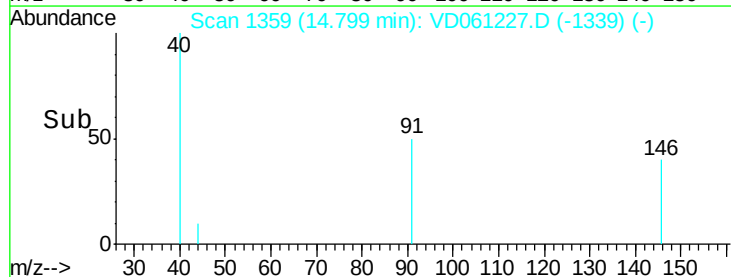
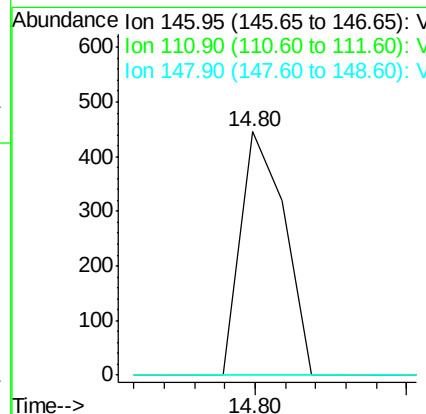
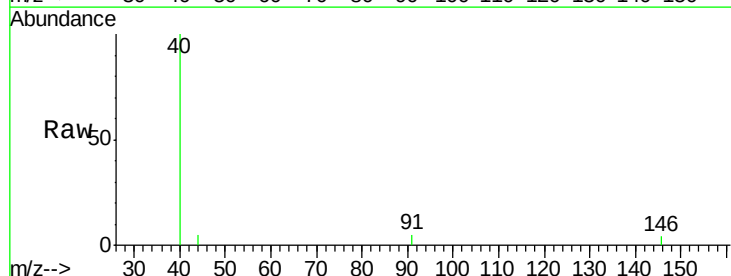
RT: 14.80 min Scan# 1359

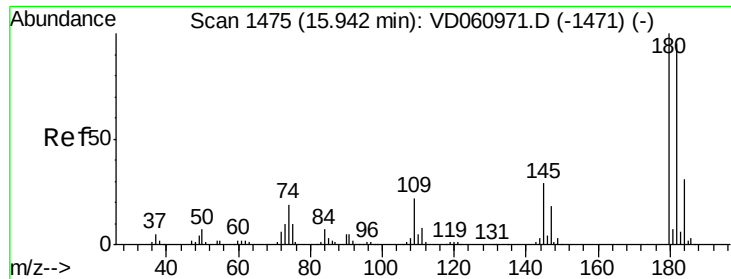
Delta R.T. -0.00 min

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#

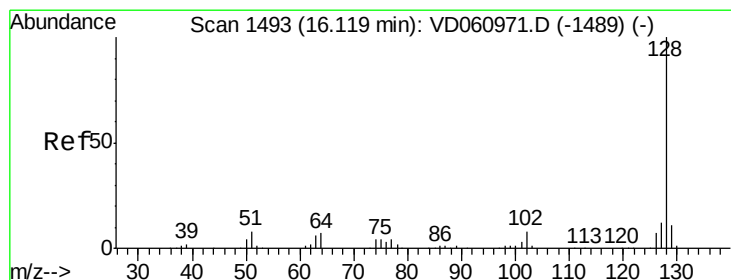
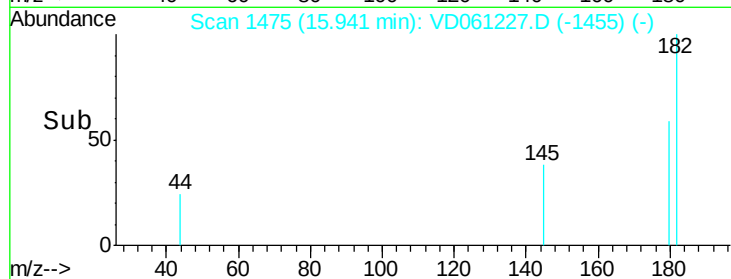
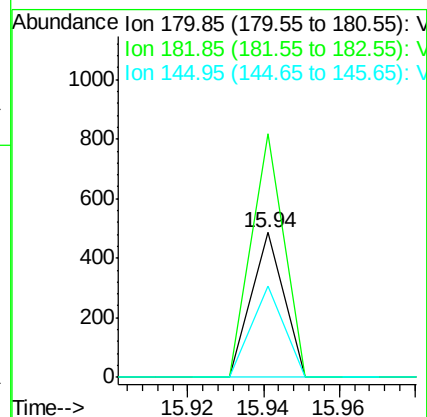
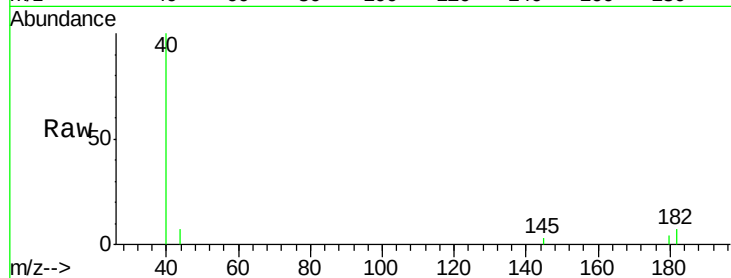




#93
 1,2,4-Trichlorobenzene
 Concen: 2.871 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD061227.D
 Acq: 21 Mar 2019 1:53

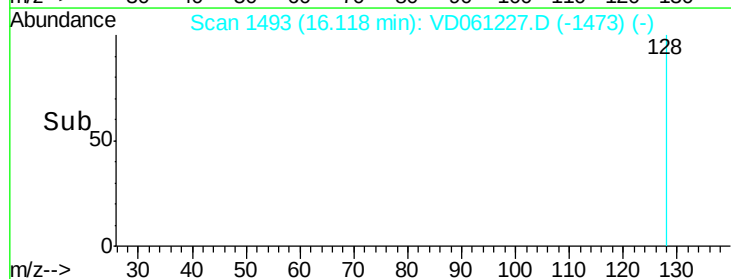
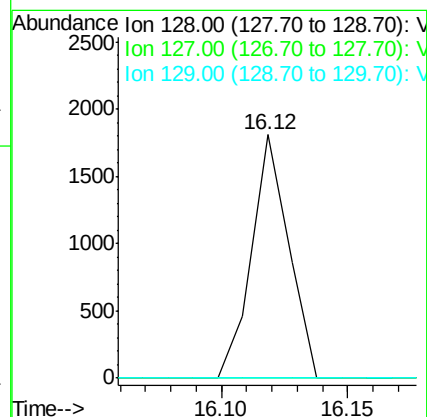
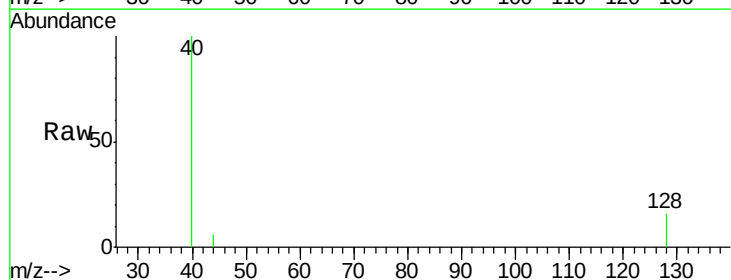
Instrument :
 MSVOA_D
 ClientSampleId :

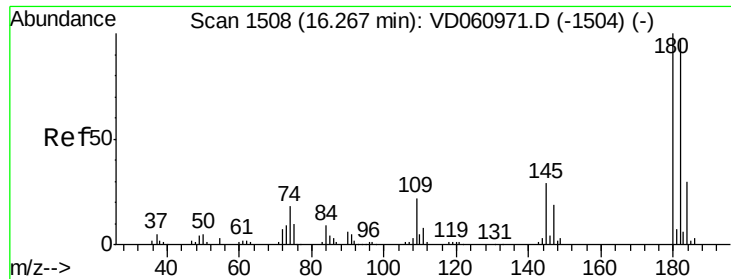
Tot Ion:180 Resp: 287
 Ion Ratio Lower Upper
 180 100
 182 168.7 47.3 142.0#
 145 63.5 14.4 43.0#



#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#





#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 :

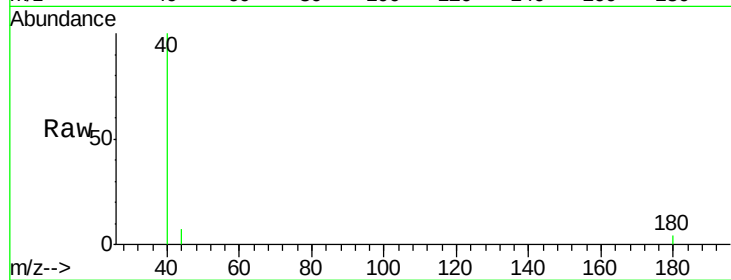
Tot Ion:180 Resp: 239

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

500

400

300

200

100

0

16.24 16.26 16.28

16.27

Time-->

