

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040219\
 Data File : VD061510.D
 Acq On : 2 Apr 2019 12:47
 Operator : VA/AP
 Sample : BFB
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 03 04:54:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

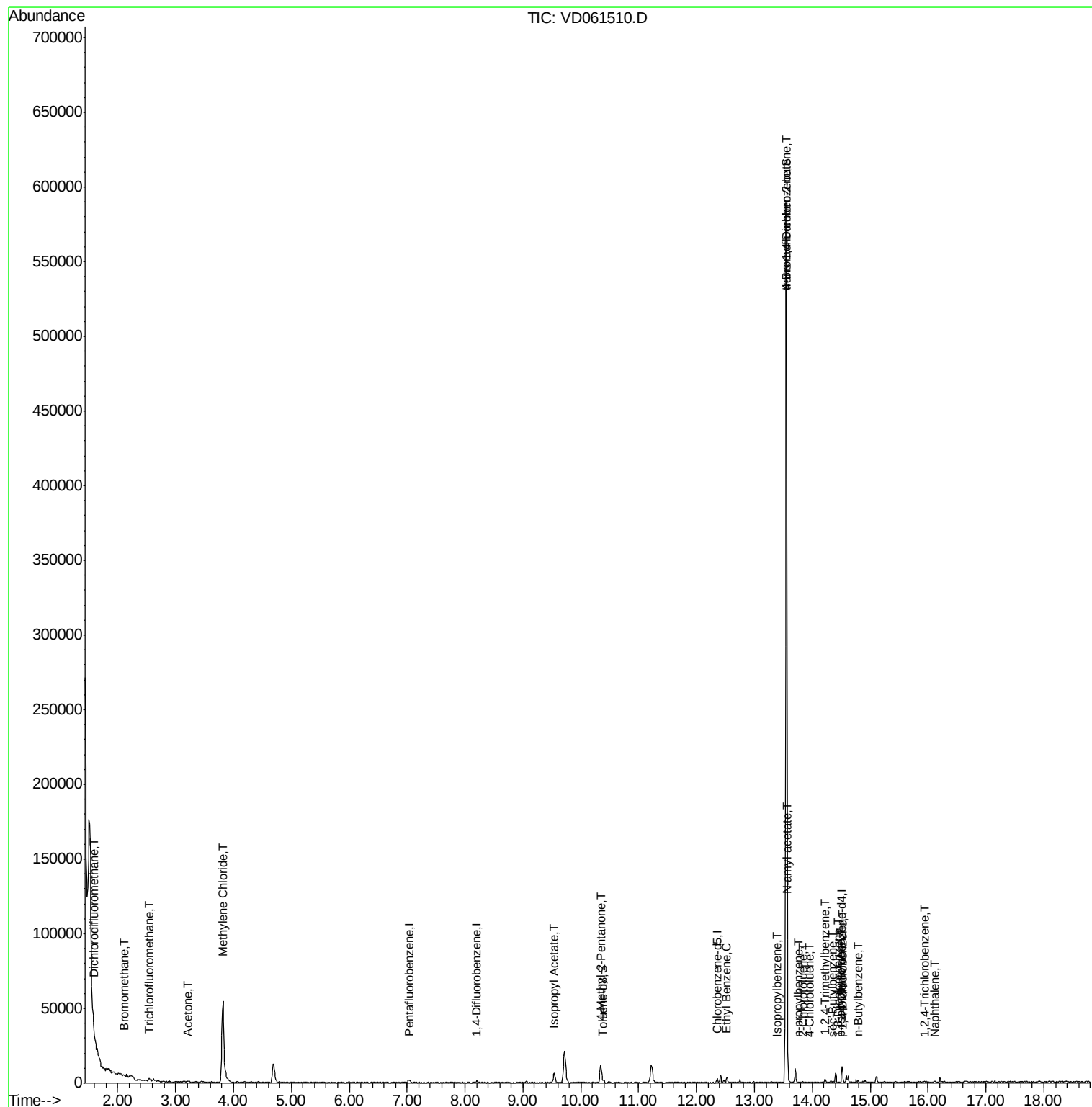
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	2360	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.21	114	1869	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.36	117	2398	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	2794	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	10.40	98	1266	36.96	ug/l	0.01
Spiked Amount	50.000		Recovery	=	73.92%	
62) 4-Bromofluorobenzene	13.55	95	190012	14464.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	28929.38%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.59	85	1174	46.580	ug/l #	42
5) Bromomethane	2.12	94	428	114.362	ug/l #	10
7) Trichlorofluoromethane	2.55	101	1264	46.057	ug/l	84
16) Acetone	3.22	43	1113	214.762	ug/l #	48
20) Methylene Chloride	3.82	84	40265	1440.300	ug/l	92
43) Isopropyl Acetate	9.53	43	5784	569.829	ug/l #	42
51) 4-Methyl-2-Pentanone	10.35	43	2256	365.318	ug/l #	35
67) Ethyl Benzene	12.51	91	252	3.369	ug/l #	42
73) Isopropylbenzene	13.39	105	209	1.075	ug/l #	50
74) N-amyl acetate	13.57	43	183	3.378	ug/l #	47
78) n-propylbenzene	13.76	91	496	2.084	ug/l #	52
79) 2-Chlorotoluene	13.83	91	203	1.571	ug/l #	36
81) trans-1,4-Dichloro-2-buten	13.55	75	67407	5477.660	ug/l #	18
82) 4-Chlorotoluene	13.94	91	439	3.125	ug/l #	36
84) 1,2,4-Trimethylbenzene	14.22	105	438	2.681	ug/l #	31
85) sec-Butylbenzene	14.35	105	543	2.711	ug/l #	60
86) p-Isopropyltoluene	14.48	119	209	1.234	ug/l #	52
87) 1,3-Dichlorobenzene	14.44	146	320	3.278	ug/l #	25
88) 1,4-Dichlorobenzene	14.53	146	436	4.580	ug/l #	25
89) n-Butylbenzene	14.79	91	654	4.207	ug/l #	85
93) 1,2,4-Trichlorobenzene	15.94	180	227	6.223	ug/l #	76
95) Naphthalene	16.11	128	474	8.525	ug/l #	70

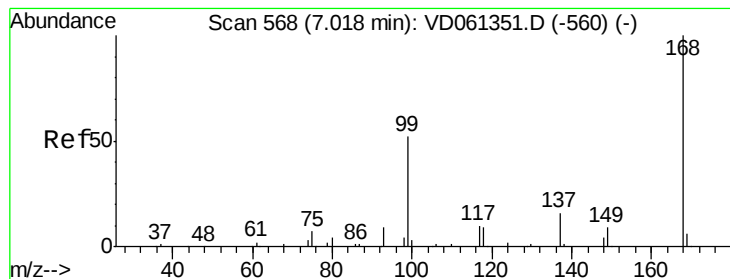
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Mar 28 09:22:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.01 min

Lab File: VD061510.D

Acq: 2 Apr 2019 12:47

Instrument :

MSVOA_D

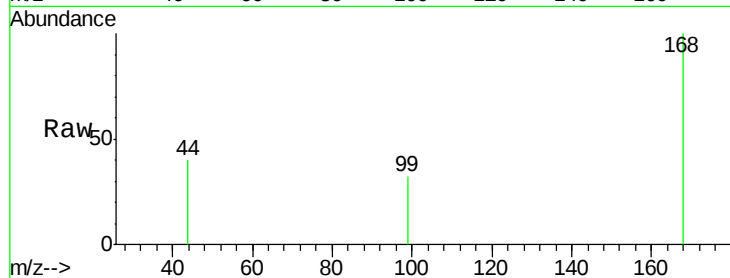
ClientSampleId :

Tot Ion:168 Resp: 2360

Ion Ratio Lower Upper

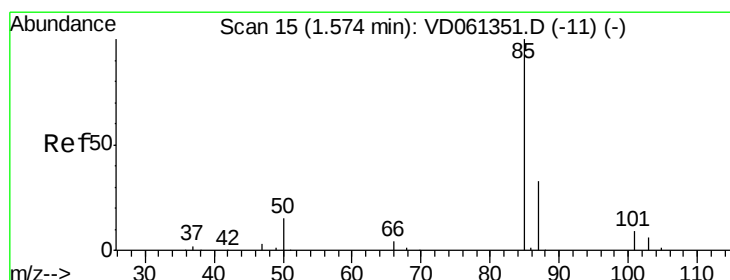
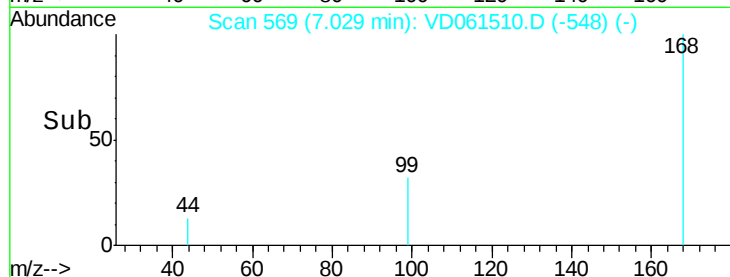
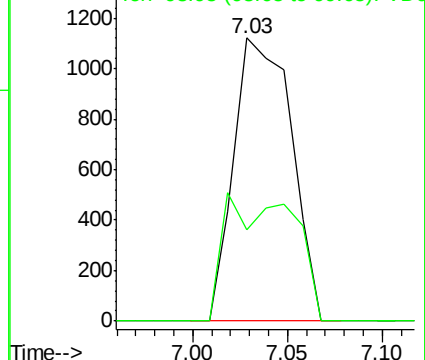
168 100

99 32.5 43.1 64.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 46.580 ug/l

RT: 1.59 min Scan# 17

Delta R.T. 0.02 min

Lab File: VD061510.D

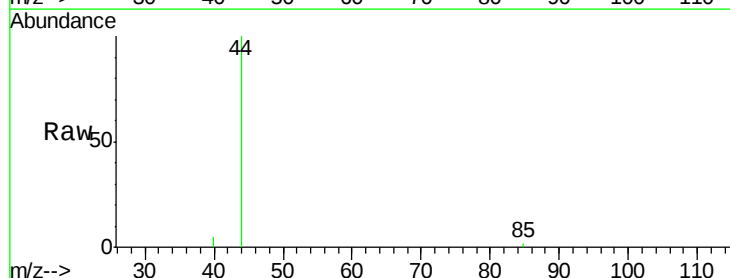
Acq: 2 Apr 2019 12:47

Tgt Ion: 85 Resp: 1174

Ion Ratio Lower Upper

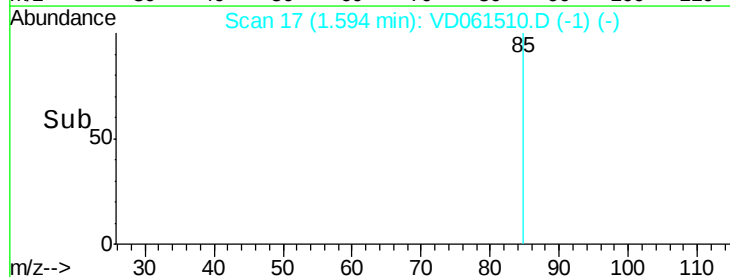
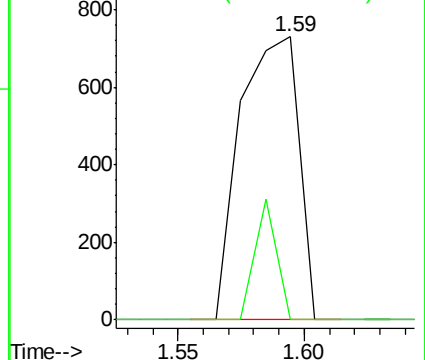
85 100

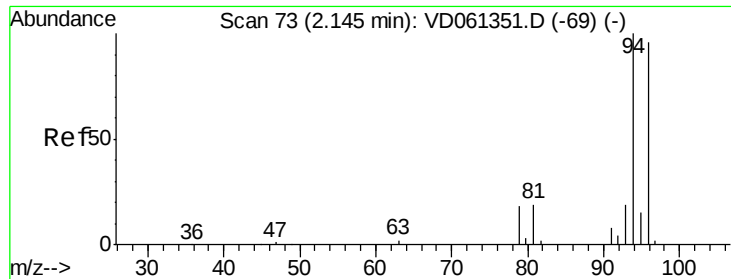
87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: 114.362 ug/l

RT: 2.12 min Scan# 70

Delta R.T. -0.03 min

Lab File: VD061510.D

Acq: 2 Apr 2019 12:47

Instrument :

MSVOA_D

ClientSampleId :

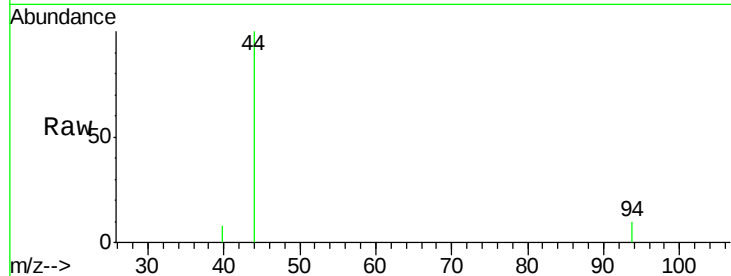
Tot Ion: 94 Resp: 428

Ion Ratio Lower Upper

94 100

96 0.0 78.3 117.5#

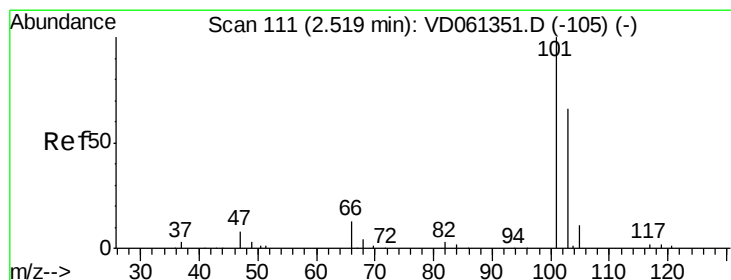
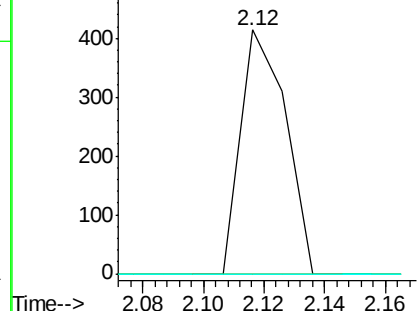
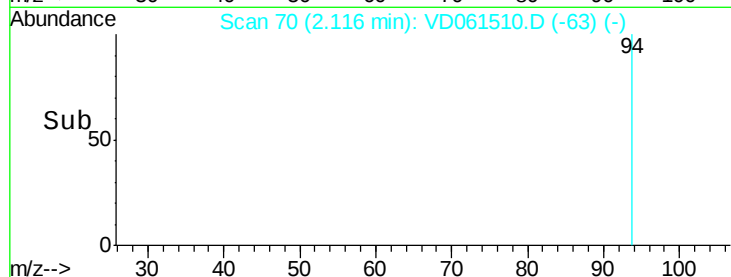
93 0.0 15.6 23.4#



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



#7

Trichlorofluoromethane

Concen: 46.057 ug/l

RT: 2.55 min Scan# 114

Delta R.T. 0.03 min

Lab File: VD061510.D

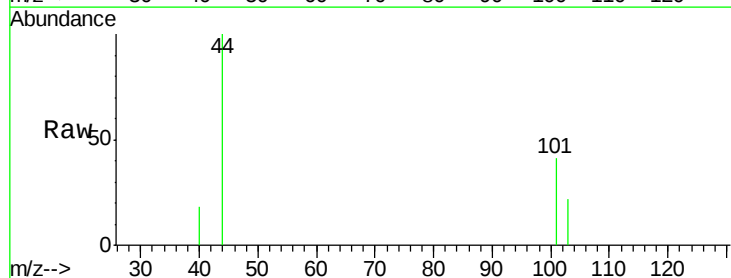
Acq: 2 Apr 2019 12:47

Tgt Ion:101 Resp: 1264

Ion Ratio Lower Upper

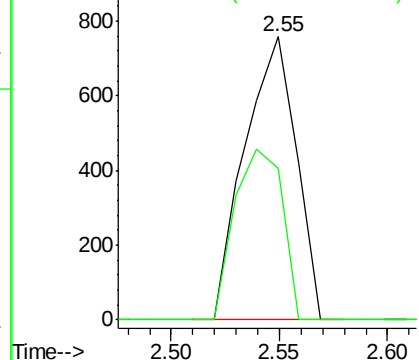
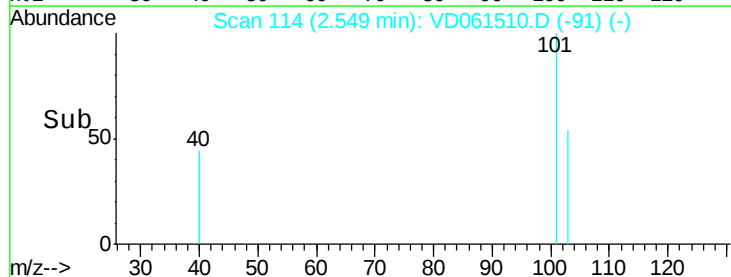
101 100

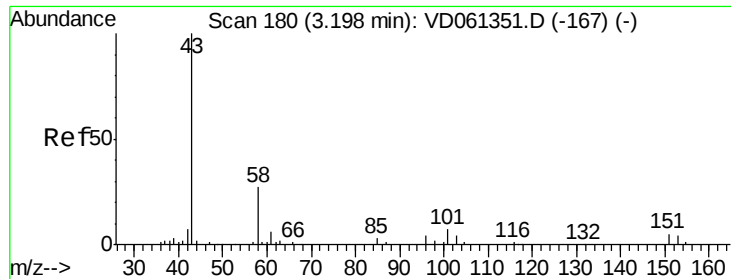
103 53.7 53.1 79.7



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V





#16

Acetone

Concen: 214.762 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.02 min

Lab File: VD061510.D

Acq: 2 Apr 2019 12:47

Instrument :

MSVOA_D

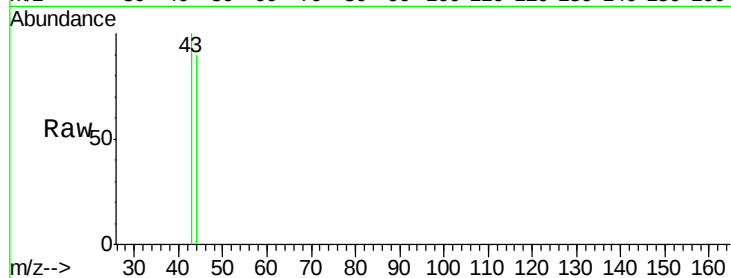
ClientSampleId :

Tot Ion: 43 Resp: 1113

Ion Ratio Lower Upper

43 100

58 0.0 21.5 32.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.22

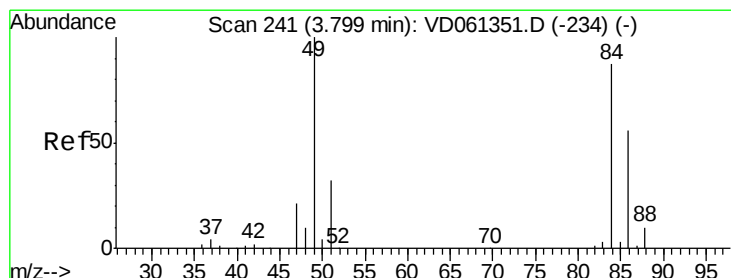
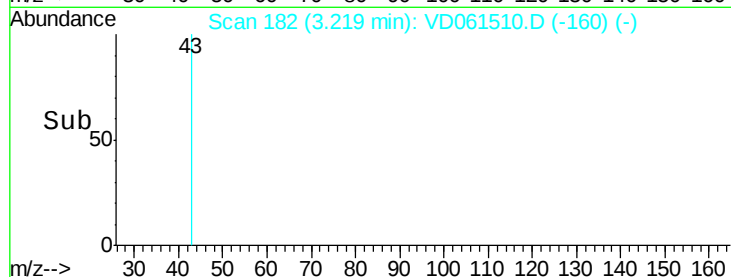
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 1440.300 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD061510.D

Acq: 2 Apr 2019 12:47

Tgt Ion: 84 Resp: 40265

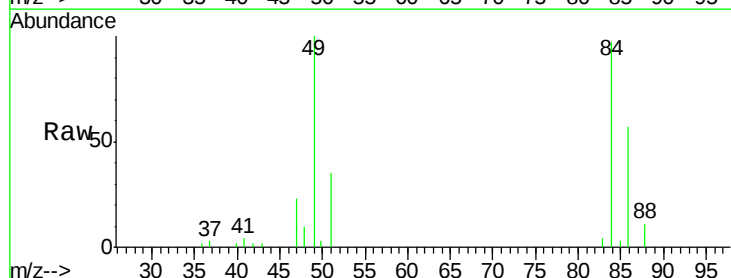
Ion Ratio Lower Upper

84 100

49 103.4 91.8 137.8

51 36.3 29.8 44.8

86 59.2 51.8 77.6



Abundance Ion 83.95 (83.65 to 84.65): 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

20000

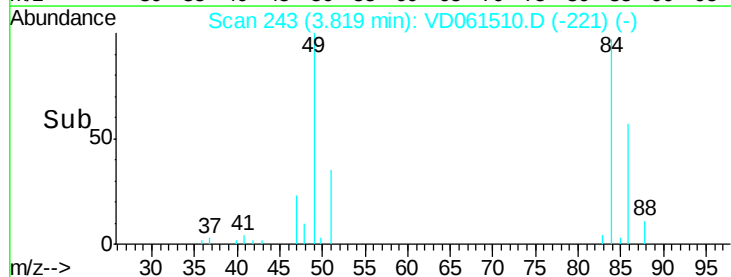
15000

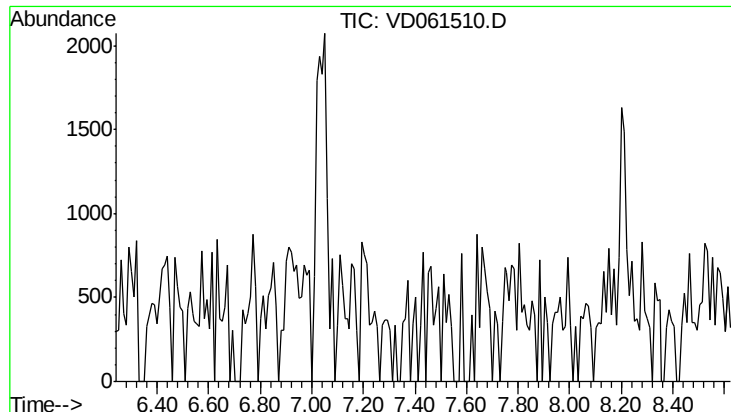
10000

5000

0

Time-->

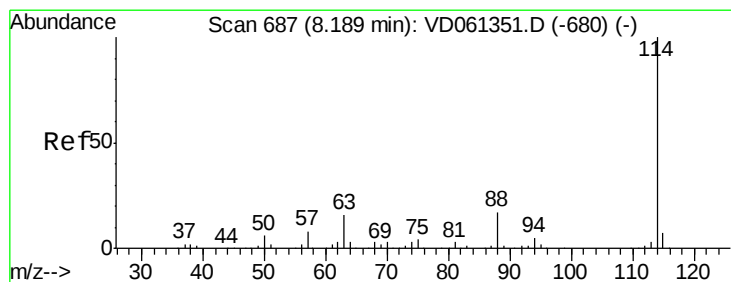
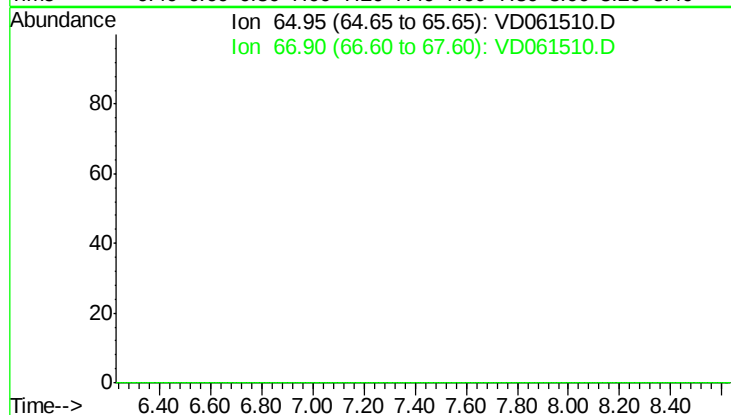




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 Expected RT: 7.43 min
 Lab File: VD061510.D
 Acq: 2 Apr 2019 12:47

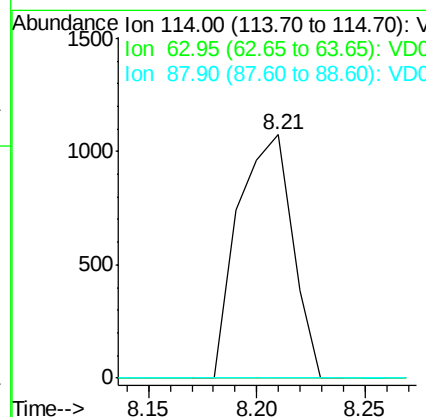
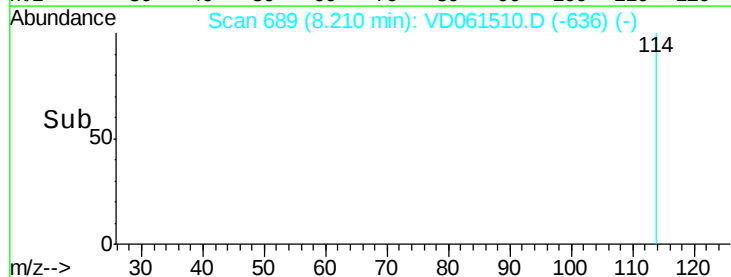
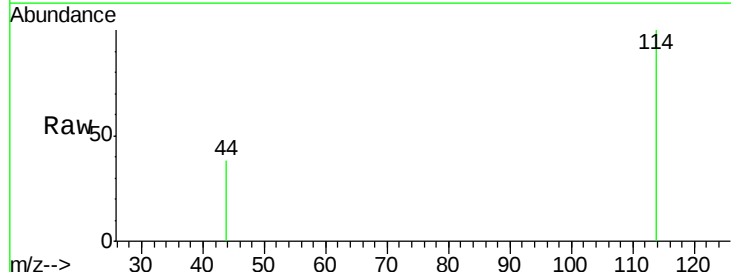
Instrument :
 MSVOA_D
 ClientSampleId :

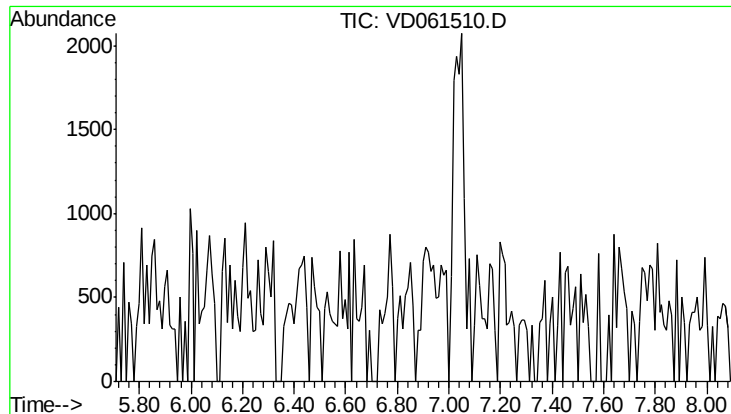
Tot Ion: 65
 Sig Exp Ratio
 65 100
 67 49.9



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. 0.02 min
 Lab File: VD061510.D
 Acq: 2 Apr 2019 12:47

Tgt Ion	Ratio	Lower	Upper
114	100		
63	0.0	0.0	31.6
88	0.0	0.0	33.4

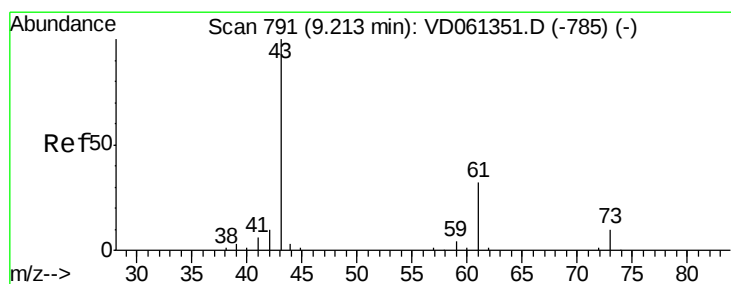
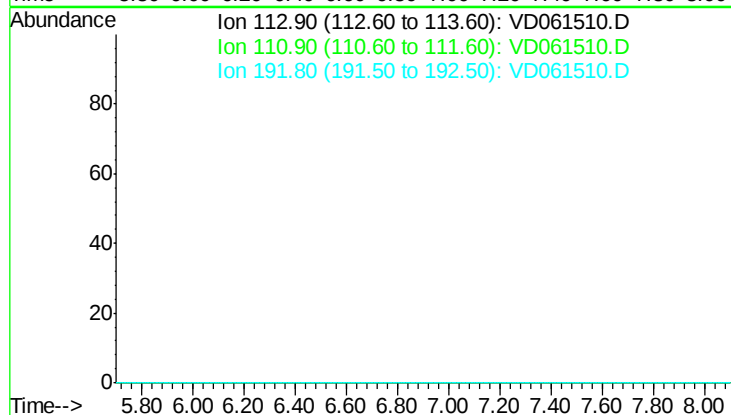




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 Expected RT: 6.90 min
 Lab File: VD061510.D
 Acq: 2 Apr 2019 12:47

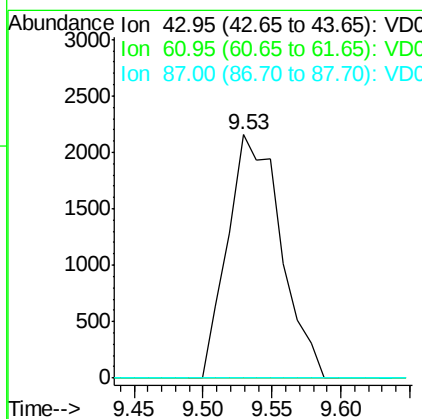
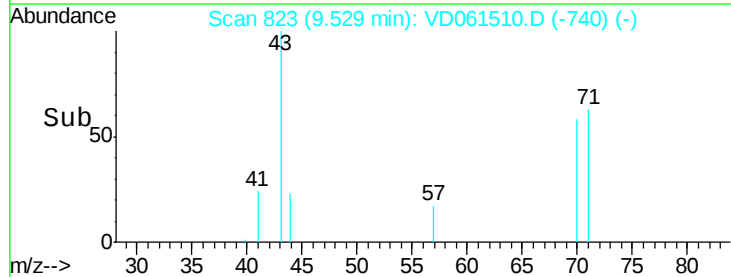
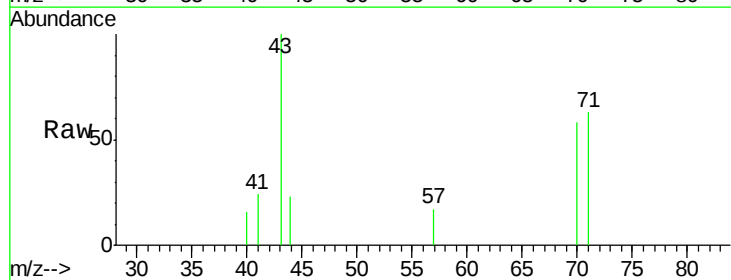
Instrument :
 MSVOA_D
 ClientSampleId :

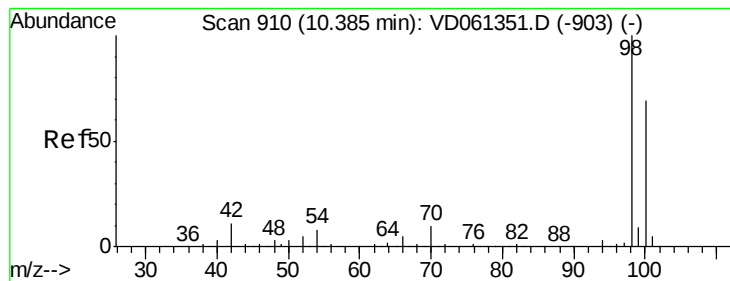
Tot Ion: 113
 Sig Exp Ratio
 113 100
 111 101.3
 192 18.0



#43
 Isopropyl Acetate
 Concen: 569.829 ug/l
 RT: 9.53 min Scan# 823
 Delta R.T. 0.32 min
 Lab File: VD061510.D
 Acq: 2 Apr 2019 12:47

Tgt Ion: 43 Resp: 5784
 Ion Ratio Lower Upper
 43 100
 61 0.0 25.8 38.6#
 87 0.0 0.0 0.0





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.40 min Scan# 911

Delta R.T. 0.01 min

Lab File: VD061510.D

Acq: 2 Apr 2019 12:47

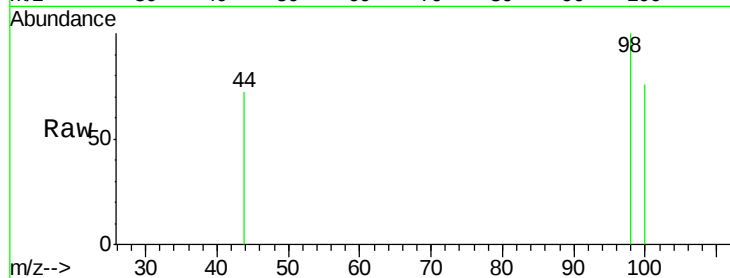
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 1266

Ion Ratio Lower Upper

98 100

100 76.2 56.2 84.2



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

10.40

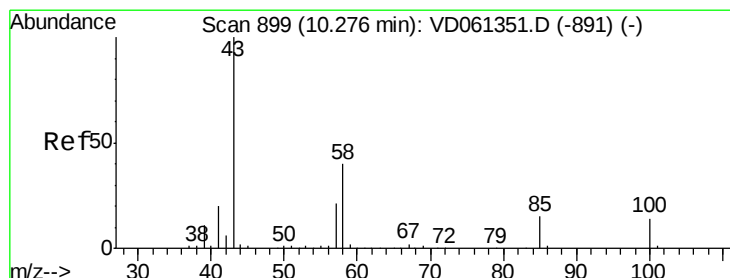
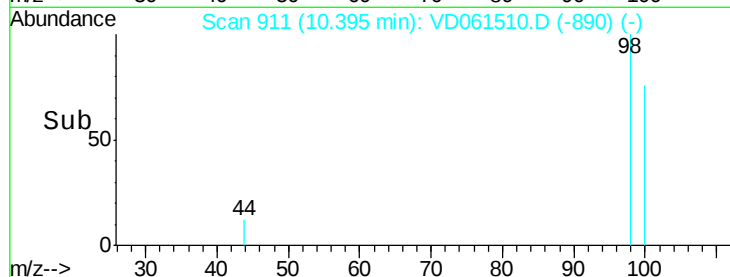
600

400

200

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 365.318 ug/l

RT: 10.35 min Scan# 906

Delta R.T. 0.07 min

Lab File: VD061510.D

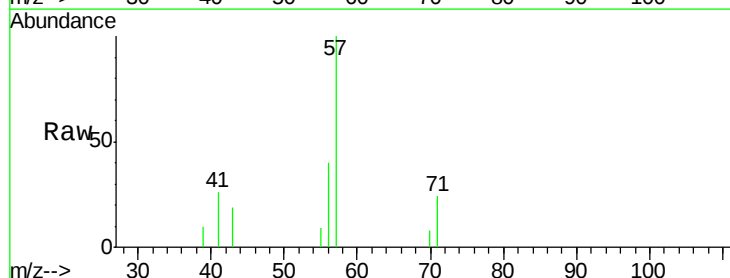
Acq: 2 Apr 2019 12:47

Tgt Ion: 43 Resp: 2256

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.35

1000

800

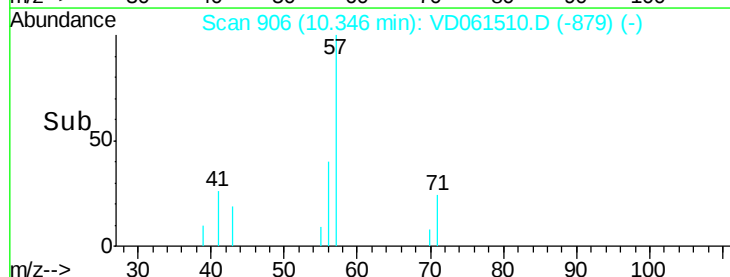
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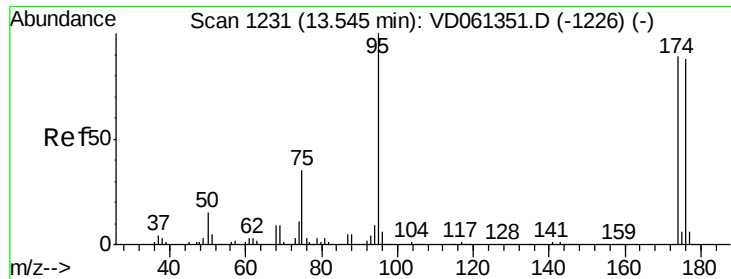
400

200

0

Time-->

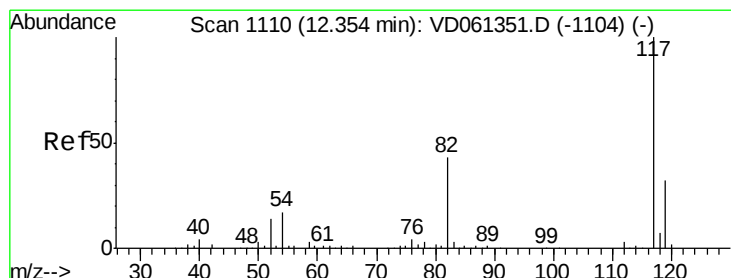
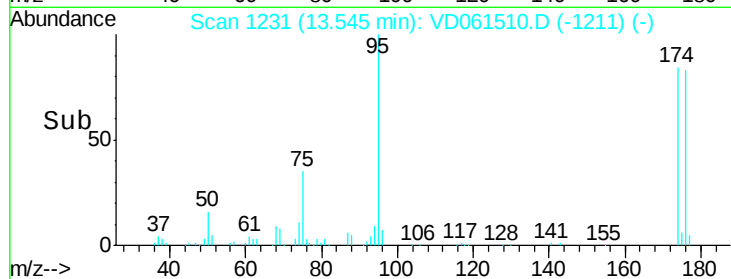
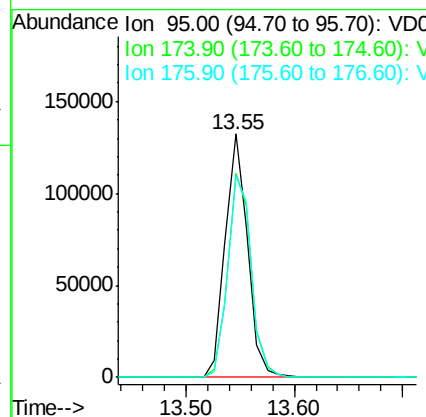
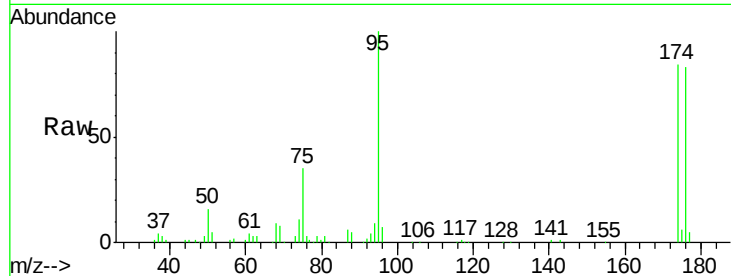




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VD061510.D
Acq: 2 Apr 2019 12:47

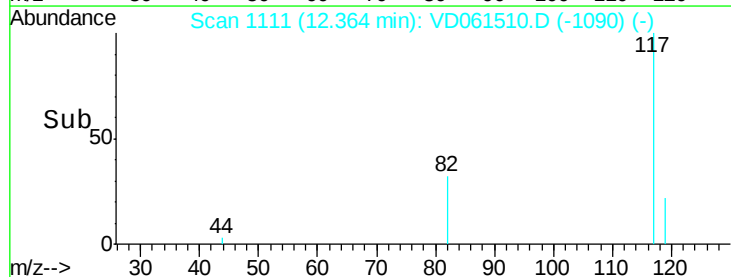
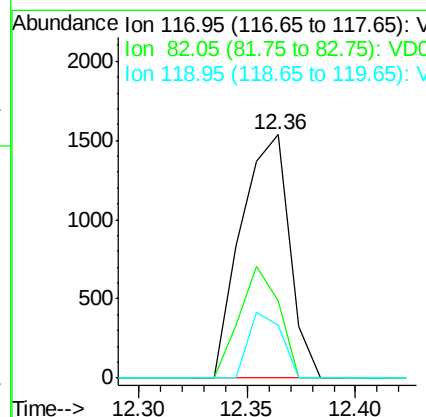
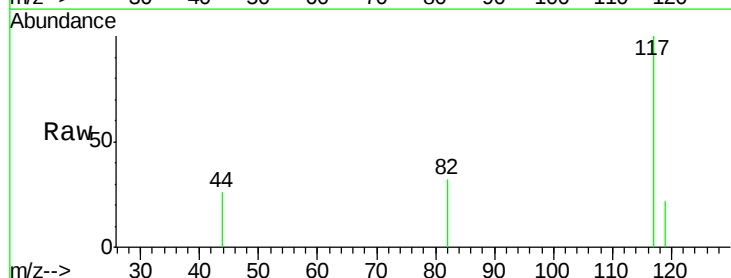
Instrument :
MSVOA_D
ClientSampleId :

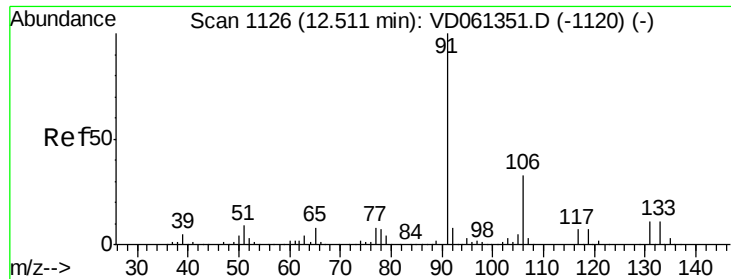
Tot Ion: 95 Resp: 190012
Ion Ratio Lower Upper
95 100
174 83.7 0.0 178.0
176 82.7 0.0 175.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD061510.D
Acq: 2 Apr 2019 12:47

Tgt Ion: 117 Resp: 2398
Ion Ratio Lower Upper
117 100
82 31.9 34.4 51.6#
119 21.5 25.8 38.6#

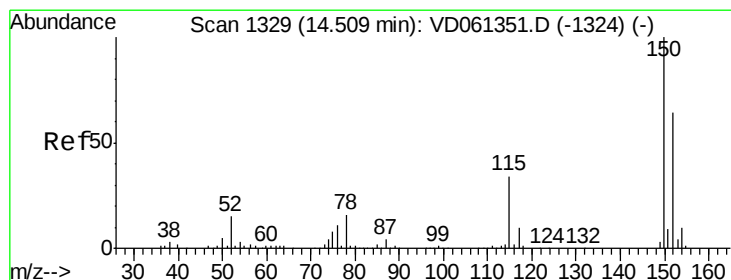
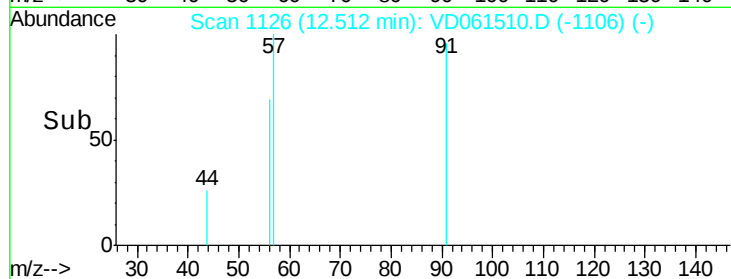
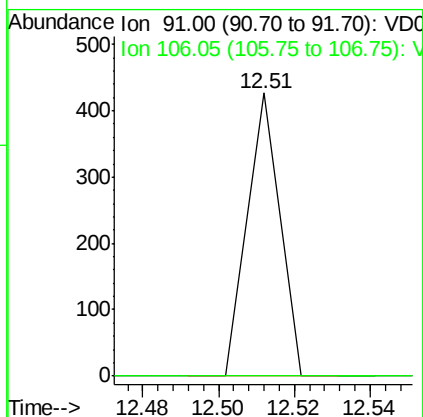
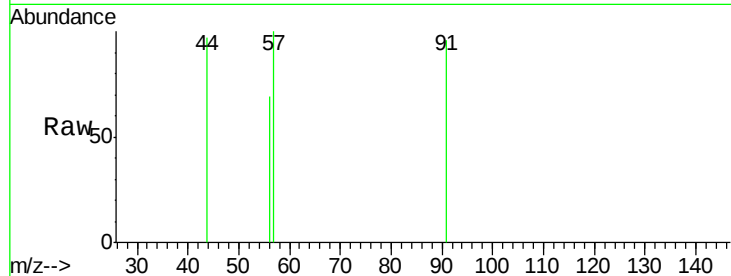




#67
Ethyl Benzene
Concen: 3.369 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. 0.00 min
Lab File: VD061510.D
Acq: 2 Apr 2019 12:47

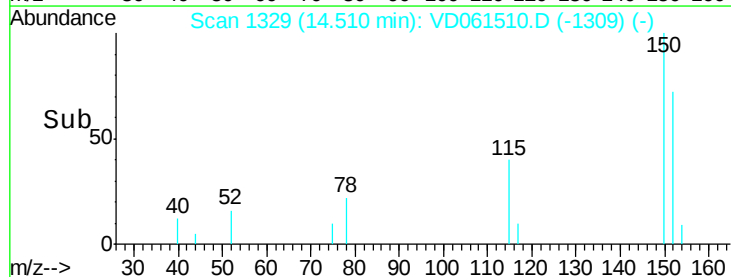
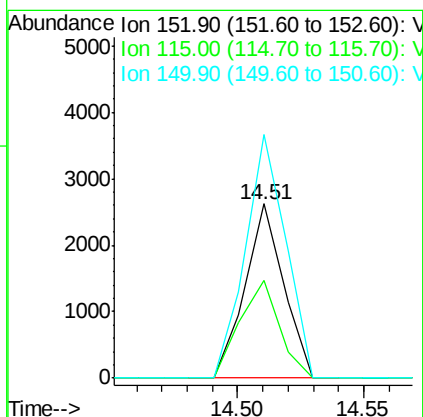
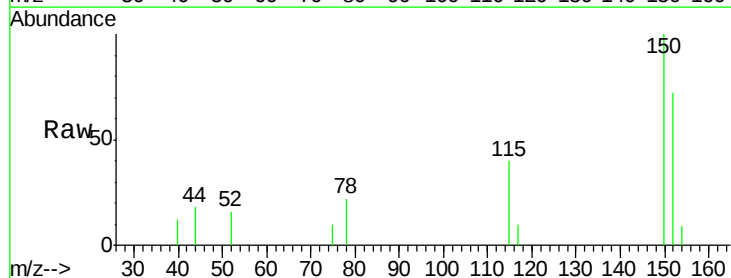
Instrument :
MSVOA_D
ClientSampled :

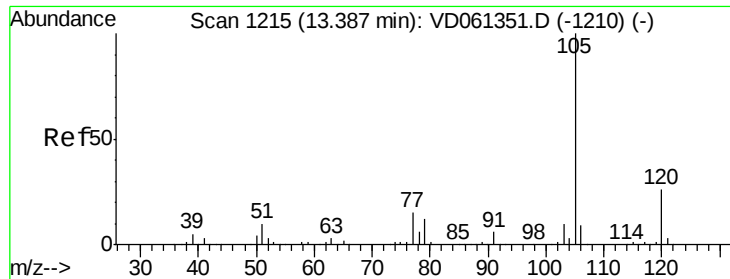
Tot Ion: 91 Resp: 252
Ion Ratio Lower Upper
91 100
106 0.0 26.1 39.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. 0.00 min
Lab File: VD061510.D
Acq: 2 Apr 2019 12:47

Tgt Ion: 152 Resp: 2794
Ion Ratio Lower Upper
152 100
115 56.4 26.9 80.6
150 139.6 0.0 318.0





#73

Isopropylbenzene

Concen: 1.075 ug/l

RT: 13.39 min Scan# 1215

Delta R.T. 0.00 min

Lab File: VD061510.D

Acq: 2 Apr 2019 12:47

Instrument :

MSVOA_D

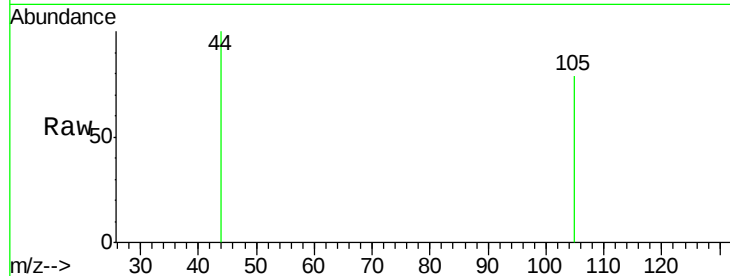
ClientSampleId :

Tot Ion:105 Resp: 209

Ion Ratio Lower Upper

105 100

120 0.0 12.8 38.3#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.39

400

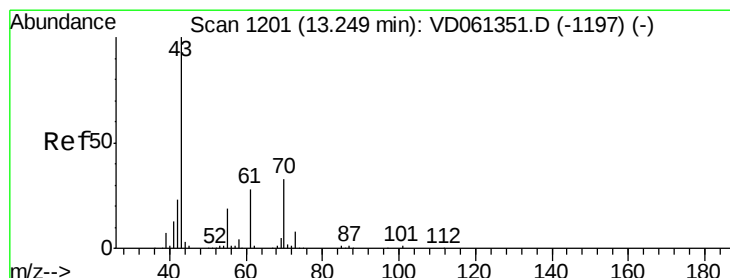
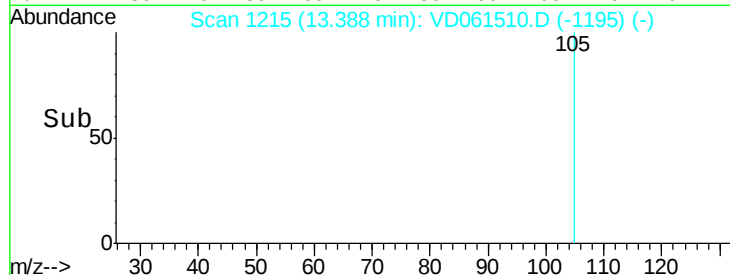
300

200

100

0

Time-->



#74

N-ethyl acetate

Concen: 3.378 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.33 min

Lab File: VD061510.D

Acq: 2 Apr 2019 12:47

Tgt Ion: 43 Resp: 183

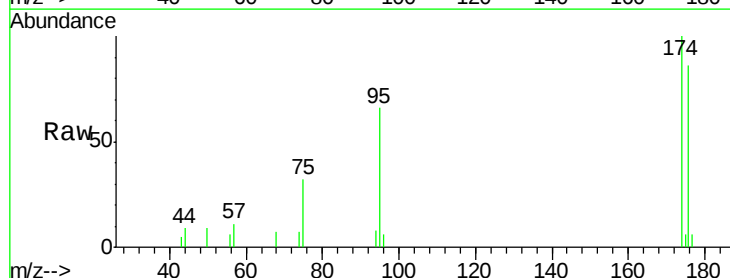
Ion Ratio Lower Upper

43 100

70 0.0 26.6 40.0#

55 0.0 15.4 23.2#

61 0.0 22.2 33.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

8000

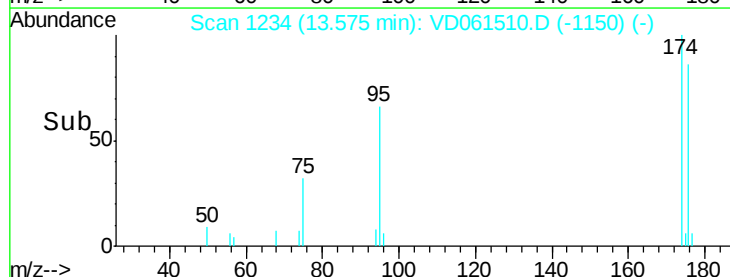
6000

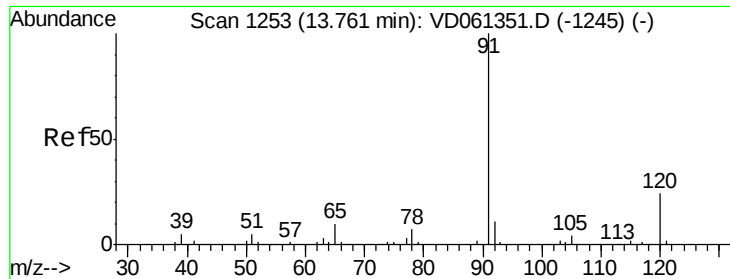
4000

2000

0

Time-->





#78

n-propylbenzene

Concen: 2.084 ug/l

RT: 13.76 min Scan# 1253

Delta R.T. 0.00 min

Lab File: VD061510.D

Acq: 2 Apr 2019 12:47

Instrument :

MSVOA_D

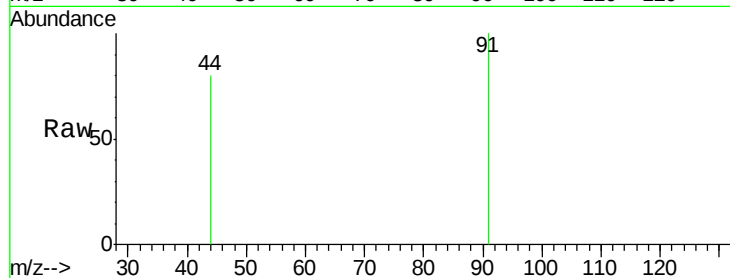
ClientSampled :

Tot Ion: 91 Resp: 496

Ion Ratio Lower Upper

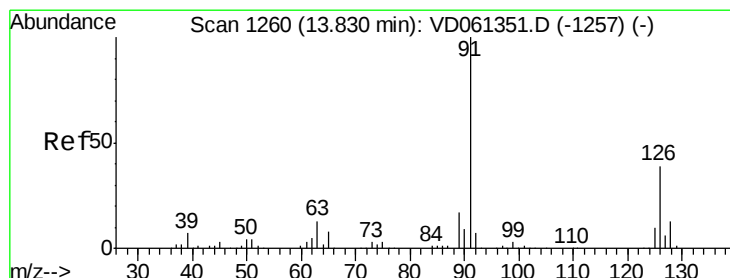
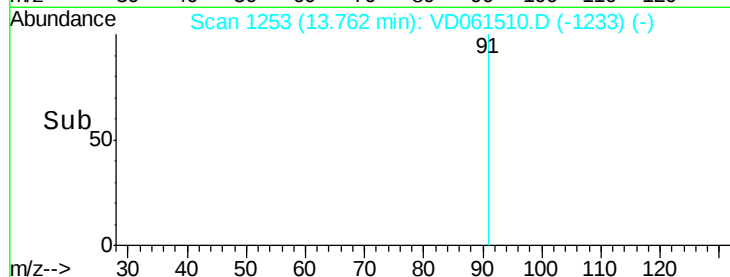
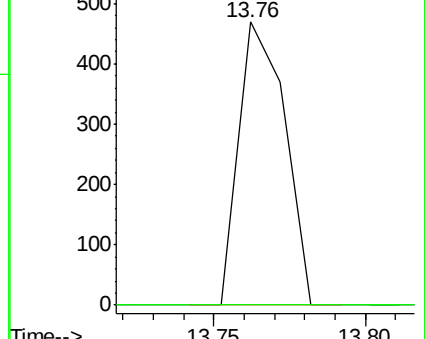
91 100

120 0.0 11.8 35.3#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC



#79

2-Chlorotoluene

Concen: 1.571 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VD061510.D

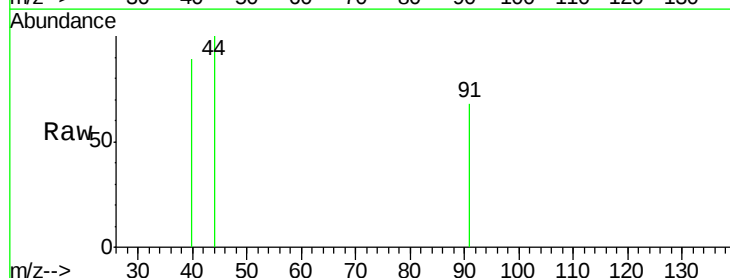
Acq: 2 Apr 2019 12:47

Tgt Ion: 91 Resp: 203

Ion Ratio Lower Upper

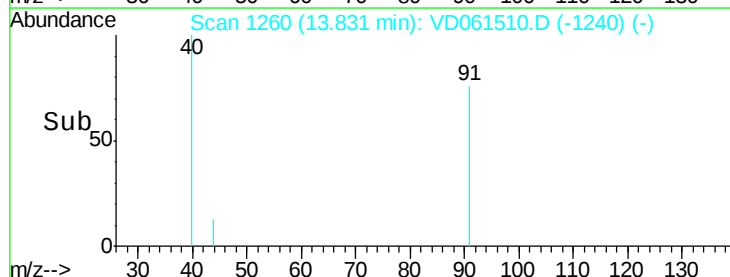
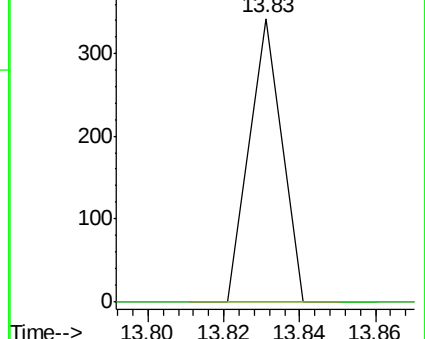
91 100

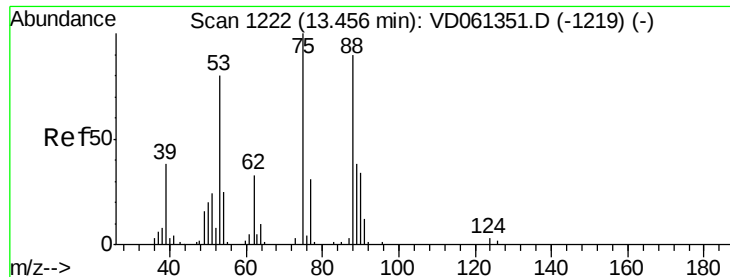
126 0.0 19.4 58.2#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 5477.660 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.09 min

Lab File: VD061510.D

Acq: 2 Apr 2019 12:47

Instrument :

MSVOA_D

ClientSampled :

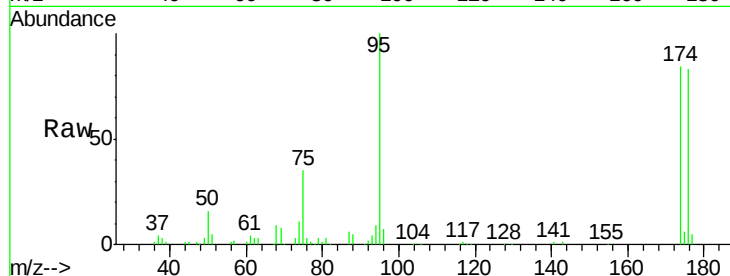
Tot Ion: 75 Resp: 67407

Ion Ratio Lower Upper

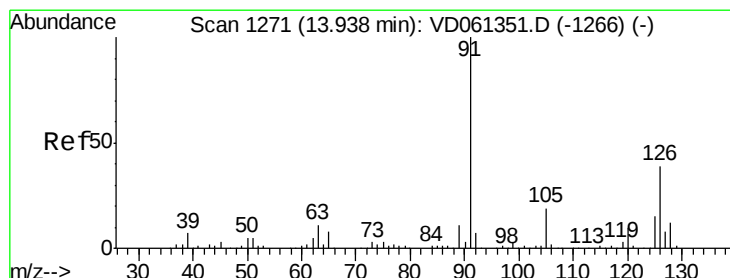
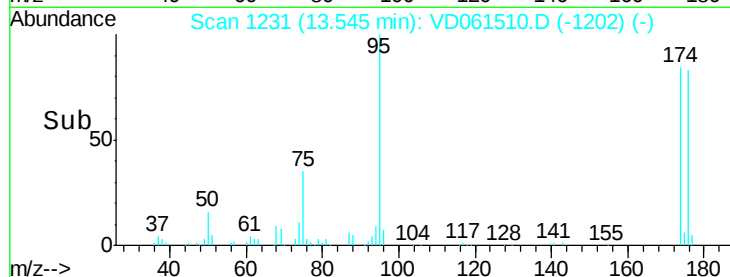
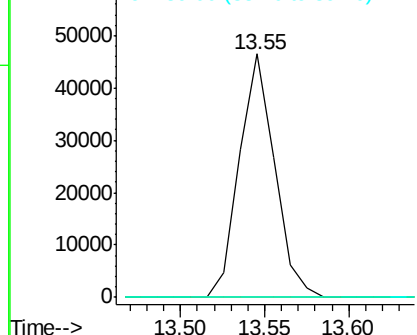
75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#



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: 3.125 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VD061510.D

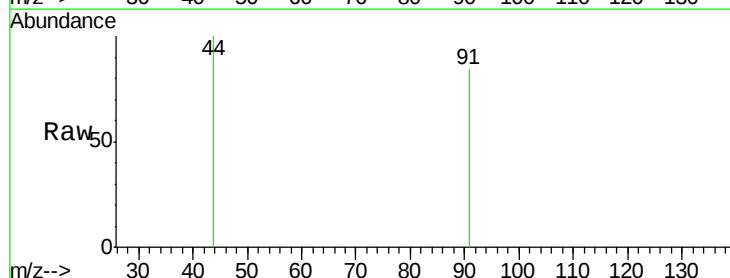
Acq: 2 Apr 2019 12:47

Tgt Ion: 91 Resp: 439

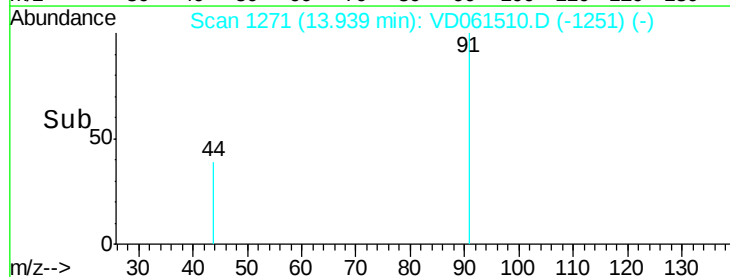
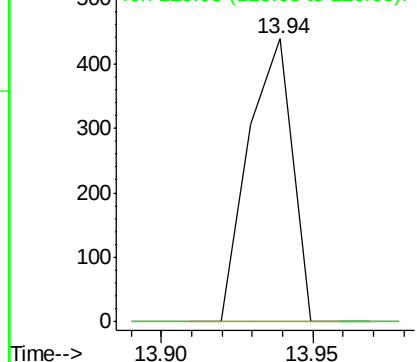
Ion Ratio Lower Upper

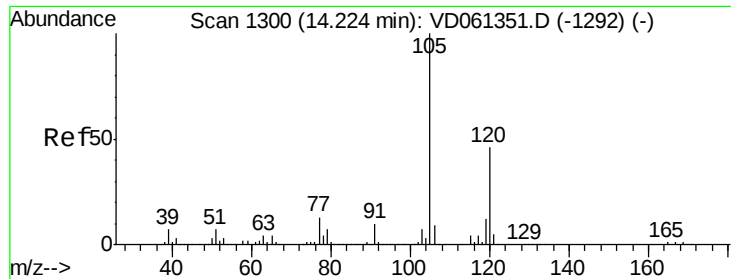
91 100

126 0.0 19.6 58.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

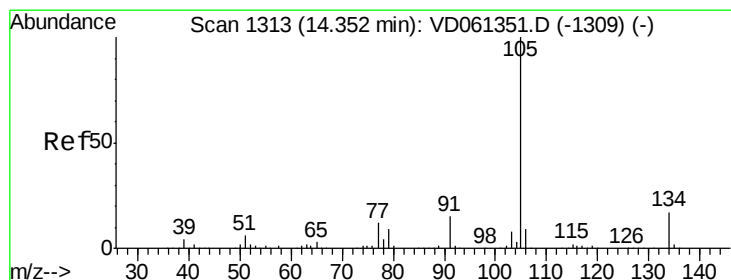
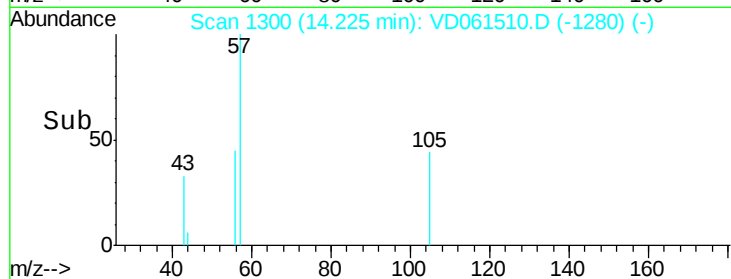
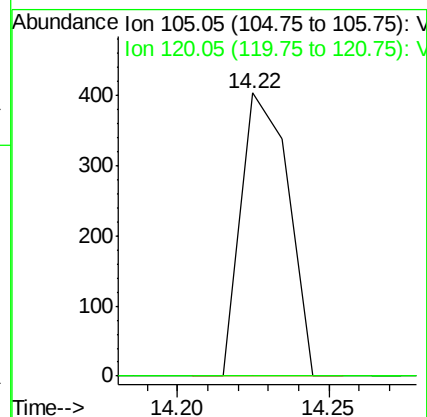
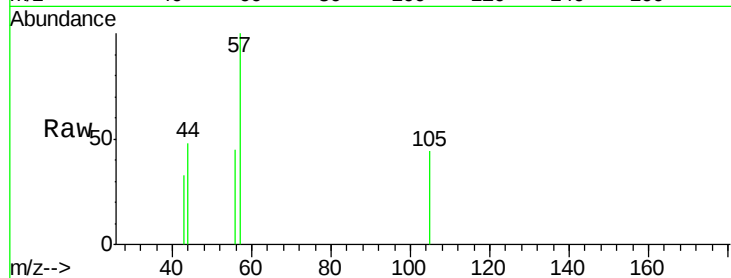




#84
 1,2,4-Trimethylbenzene
 Concen: 2.681 ug/l
 RT: 14.22 min Scan# 1300
 Delta R.T. 0.00 min
 Lab File: VD061510.D
 Acq: 2 Apr 2019 12:47

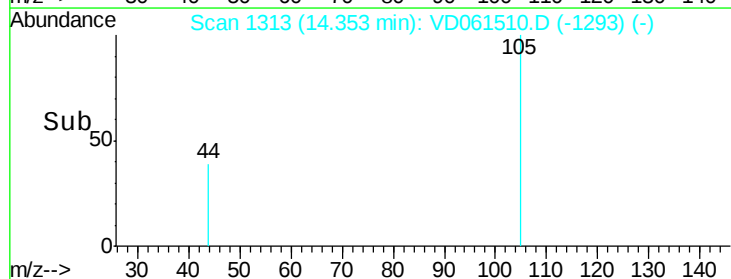
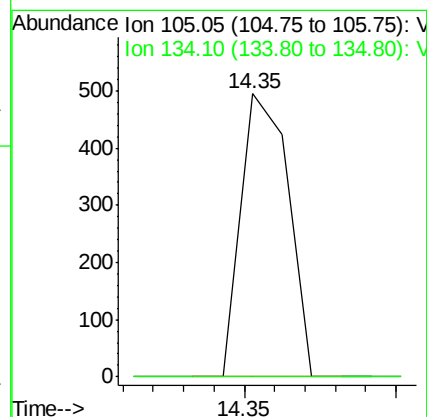
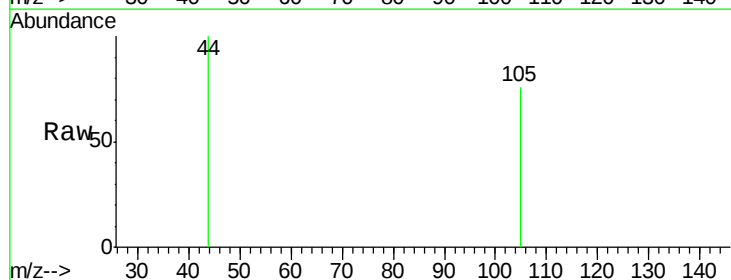
Instrument :
 MSVOA_D
 ClientSampleId :

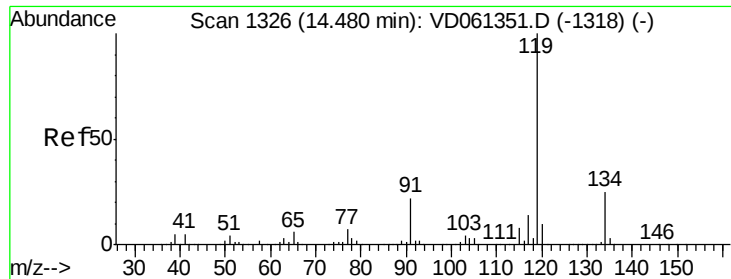
Tot Ion:105 Resp: 438
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.8 68.4#



#85
 sec-Butylbenzene
 Concen: 2.711 ug/l
 RT: 14.35 min Scan# 1313
 Delta R.T. 0.00 min
 Lab File: VD061510.D
 Acq: 2 Apr 2019 12:47

Tgt Ion:105 Resp: 543
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.7 26.1#

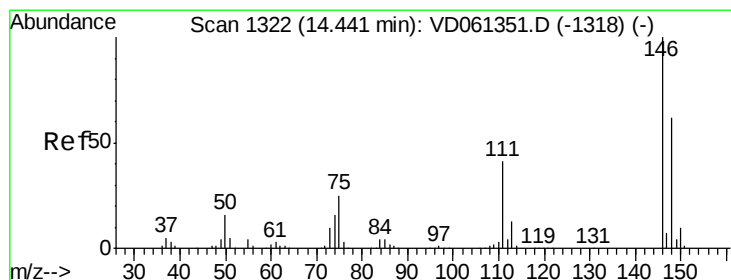
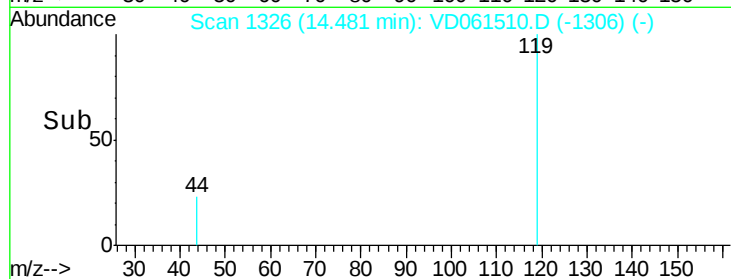
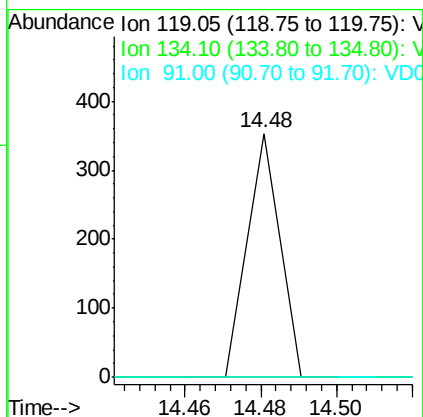
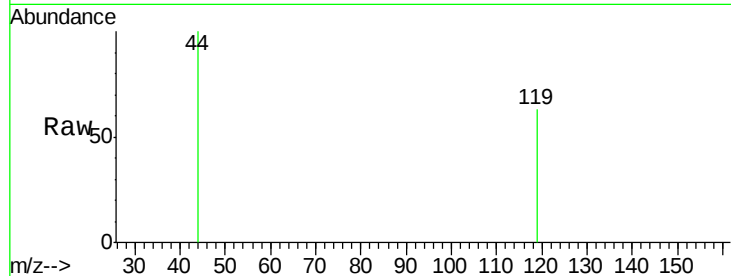




#86
 p-Isopropyltoluene
 Concen: 1.234 ug/l
 RT: 14.48 min Scan# 1326
 Delta R.T. 0.00 min
 Lab File: VD061510.D
 Acq: 2 Apr 2019 12:47

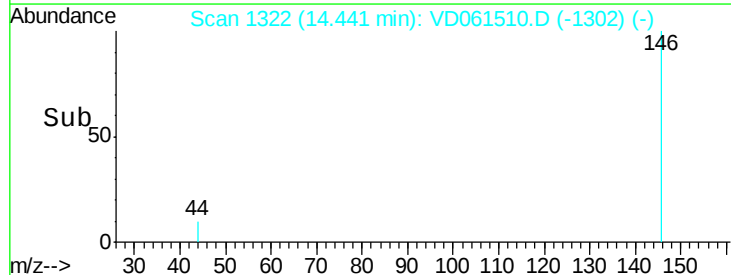
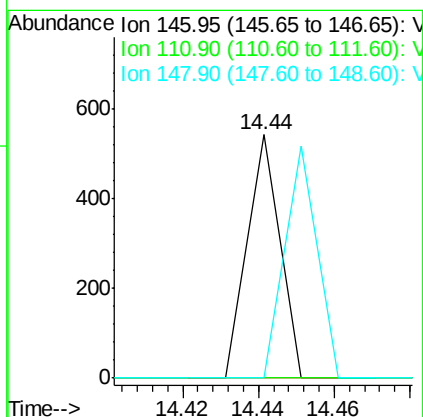
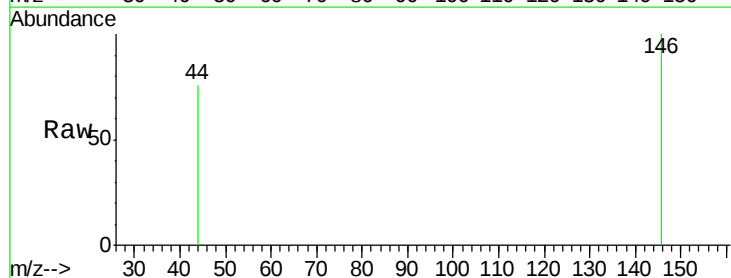
Instrument :
 MSVOA_D
 ClientSampled :

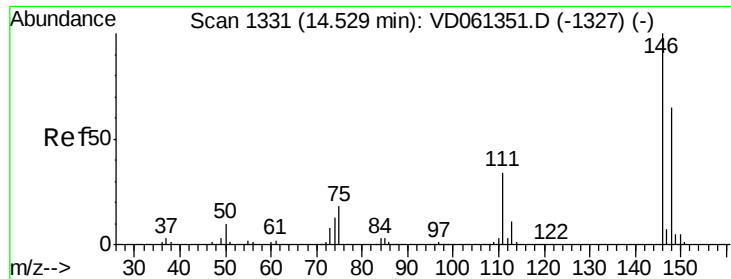
Tot Ion:119 Resp: 209
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.3 36.8#
 91 0.0 11.1 33.1#



#87
 1,3-Dichlorobenzene
 Concen: 3.278 ug/l
 RT: 14.44 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VD061510.D
 Acq: 2 Apr 2019 12:47

Tgt Ion:146 Resp: 320
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.6 61.9#
 148 0.0 31.1 93.3#

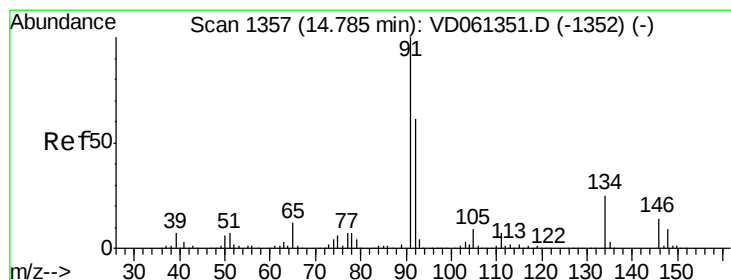
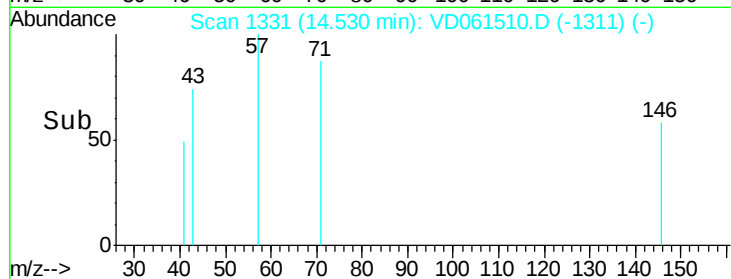
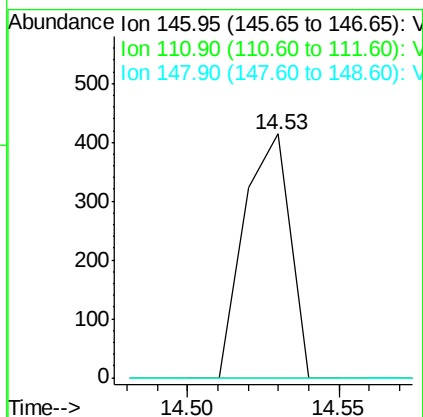
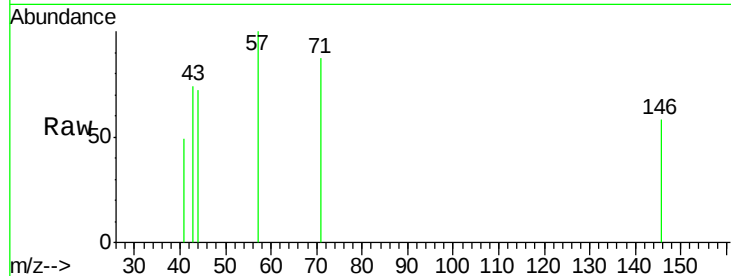




#88
 1,4-Dichlorobenzene
 Concen: 4.580 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. 0.00 min
 Lab File: VD061510.D
 Acq: 2 Apr 2019 12:47

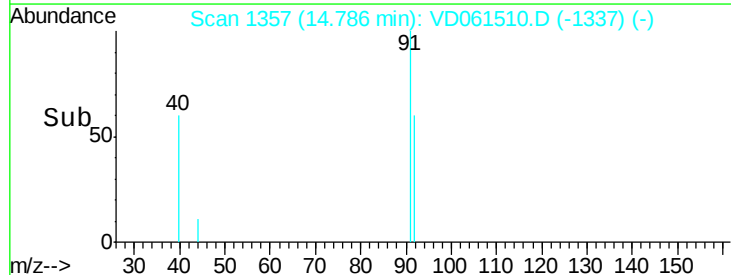
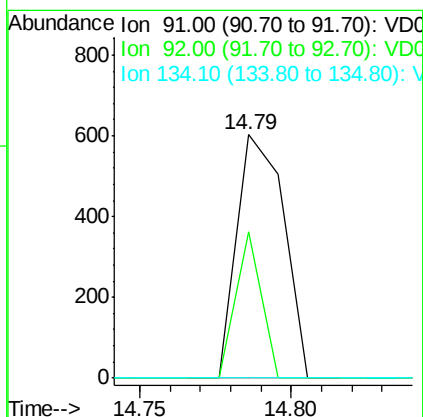
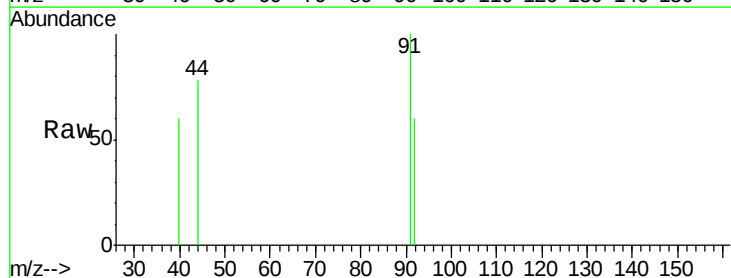
Instrument :
 MSVOA_D
 ClientSampleId :

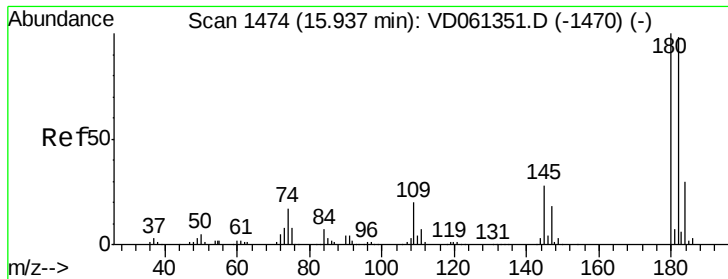
Tot Ion:146 Resp: 436
 Ion Ratio Lower Upper
 146 100
 111 0.0 16.8 50.4#
 148 0.0 32.6 98.0#



#89
 n-Butylbenzene
 Concen: 4.207 ug/l
 RT: 14.79 min Scan# 1357
 Delta R.T. 0.00 min
 Lab File: VD061510.D
 Acq: 2 Apr 2019 12:47

Tgt Ion: 91 Resp: 654
 Ion Ratio Lower Upper
 91 100
 92 59.9 30.3 91.0
 134 0.0 12.4 37.0#

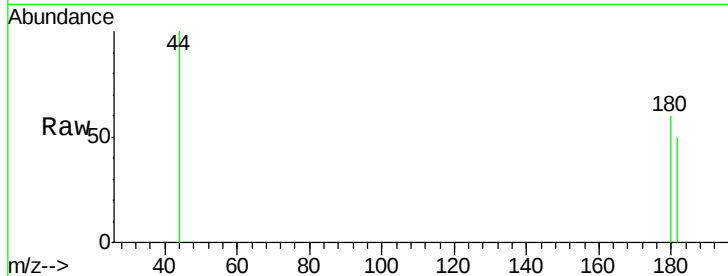




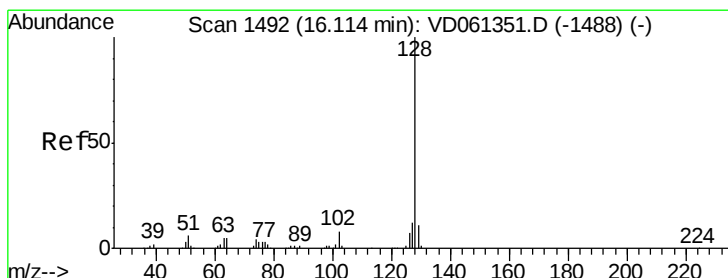
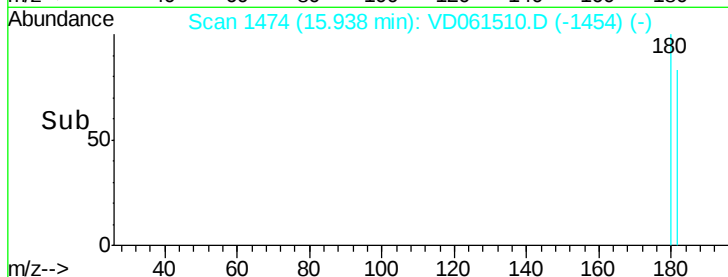
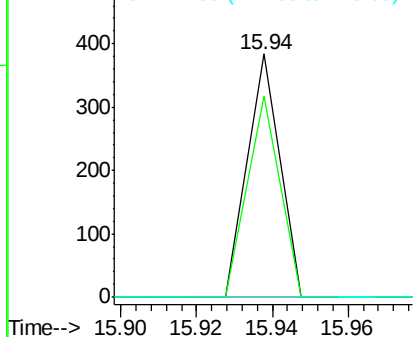
#93
 1,2,4-Trichlorobenzene
 Concen: 6.223 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. 0.00 min
 Lab File: VD061510.D
 Acq: 2 Apr 2019 12:47

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 227
 Ion Ratio Lower Upper
 180 100
 182 82.8 48.9 146.8
 145 0.0 14.1 42.3#

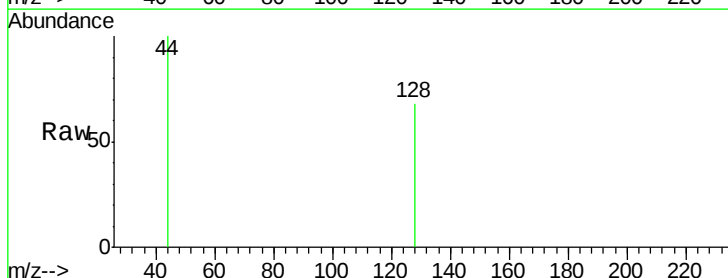


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 8.525 ug/l
 RT: 16.11 min Scan# 1492
 Delta R.T. 0.00 min
 Lab File: VD061510.D
 Acq: 2 Apr 2019 12:47

Tgt Ion:128 Resp: 474
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.9 14.9#
 129 0.0 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

