

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD013019\
 Data File : VD060805.D
 Acq On : 30 Jan 2019 15:00
 Operator : VA/AP
 Sample : K1282-09RE
 Misc : 4.99g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-3RE

Quant Time: Jan 31 05:01:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 29 13:53:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.81	168	9500	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.00	114	12058	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.17	117	9376	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.32	152	2172	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.23	65	9884	67.86	ug/l	0.01
Spiked Amount			Recovery	=	135.72%	
35) Dibromofluoromethane	6.69	113	4955	42.85	ug/l	0.02
Spiked Amount			Recovery	=	85.70%	
50) Toluene-d8	10.20	98	10031	37.15	ug/l	0.01
Spiked Amount			Recovery	=	74.30%	
62) 4-Bromofluorobenzene	13.36	95	2952	21.75	ug/l	0.00
Spiked Amount			Recovery	=	43.50%	

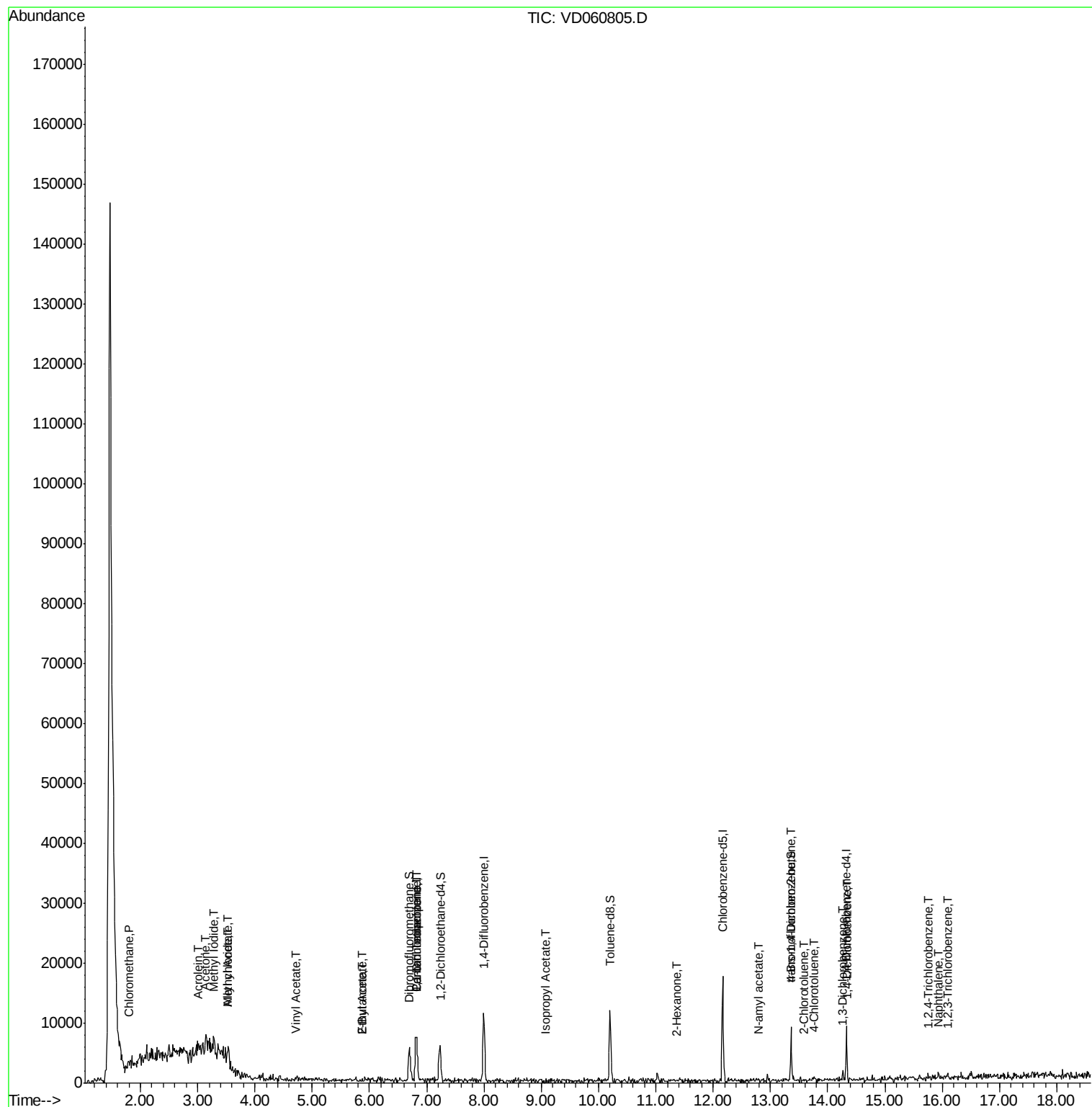
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.78	50	434	6.276	ug/l #	43
10) Methyl Iodide	3.28	142	1019	13.291	ug/l #	20
13) Acrolein	3.01	56	247	84.143	ug/l	99
14) Allyl chloride	3.52	41	1380	11.850	ug/l #	81
16) Acetone	3.14	43	1981	94.173	ug/l #	59
18) Methyl Acetate	3.52	43	657	15.755	ug/l #	63
23) Vinyl Acetate	4.70	43	190	1.099	ug/l #	82
25) 2-Butanone	5.87	43	389	14.448	ug/l #	59
36) 1,1-Dichloropropene	6.83	75	207	1.438	ug/l #	47
37) Ethyl Acetate	5.87	43	389	6.053	ug/l #	68
38) Carbon Tetrachloride	6.81	117	262	1.451	ug/l #	13
43) Isopropyl Acetate	9.08	43	213	2.541	ug/l #	45
59) 2-Hexanone	11.37	43	259	6.346	ug/l #	27
74) N-amyl acetate	12.79	43	179	3.362	ug/l #	52
79) 2-Chlorotoluene	13.58	91	194	1.463	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.36	75	1337	128.758	ug/l #	1
82) 4-Chlorotoluene	13.75	91	456	3.094	ug/l #	47
87) 1,3-Dichlorobenzene	14.27	146	341	4.283	ug/l	81
88) 1,4-Dichlorobenzene	14.34	146	589	7.613	ug/l #	25
93) 1,2,4-Trichlorobenzene	15.75	180	230	4.019	ug/l #	83
95) Naphthalene	15.94	128	843	9.588	ug/l #	69
96) 1,2,3-Trichlorobenzene	16.09	180	222	4.461	ug/l #	12

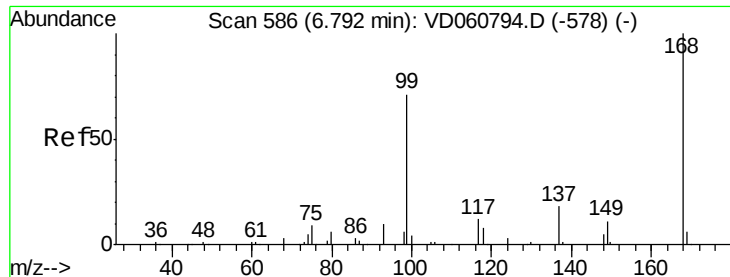
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jan 29 13:53:55 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.81 min Scan# 588

Delta R.T. 0.02 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

Instrument :

MSVOA_D

ClientSampleId :

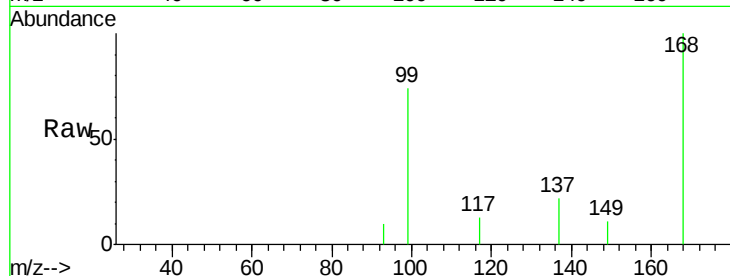
TP-3RE

Tot Ion:168 Resp: 9500

Ion Ratio Lower Upper

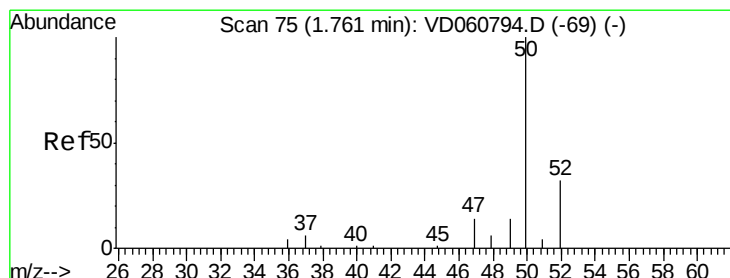
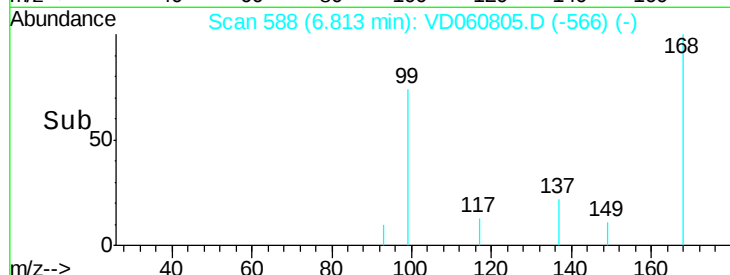
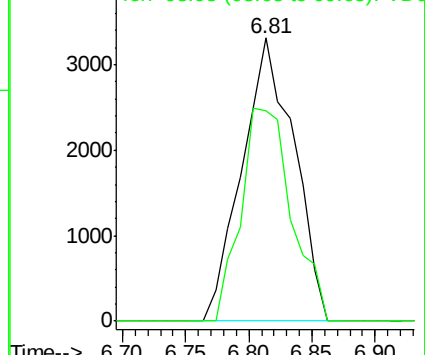
168 100

99 74.3 59.2 88.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 6.276 ug/l

RT: 1.78 min Scan# 77

Delta R.T. 0.02 min

Lab File: VD060805.D

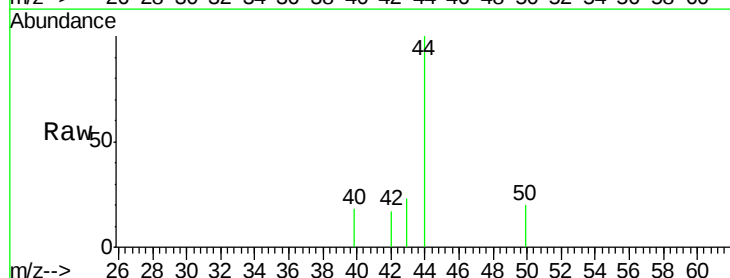
Acq: 30 Jan 2019 15:00

Tgt Ion: 50 Resp: 434

Ion Ratio Lower Upper

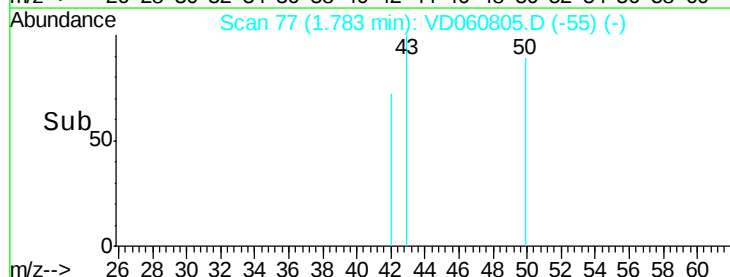
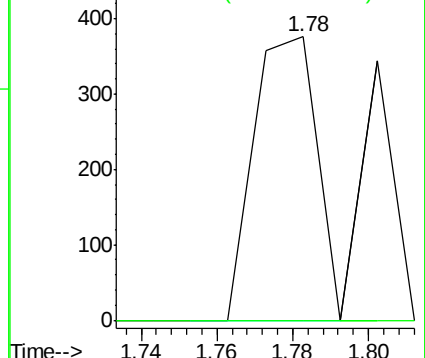
50 100

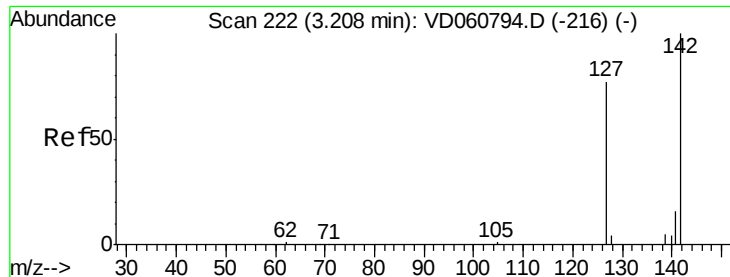
52 0.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

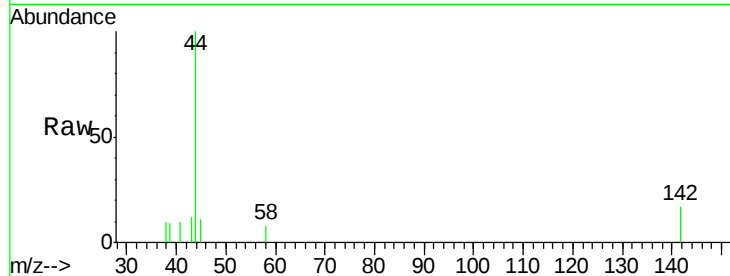




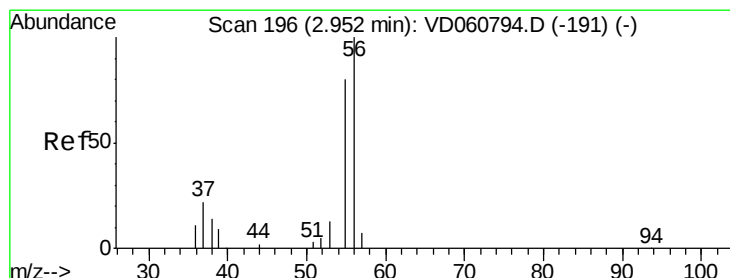
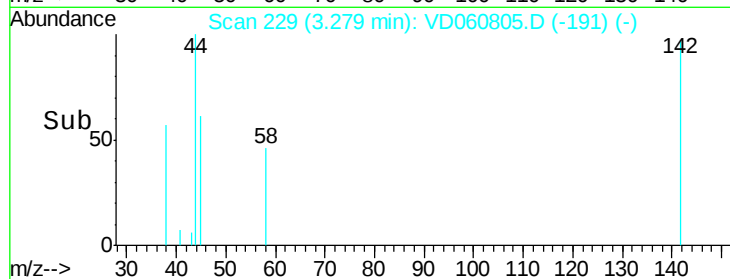
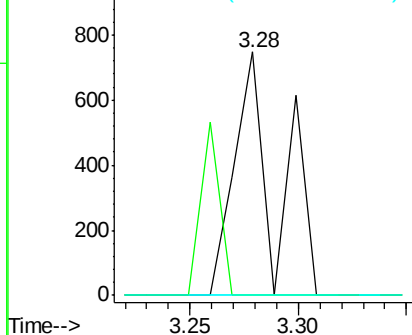
#10
Methvl Iodide
Concen: 13.291 ug/l
RT: 3.28 min Scan# 229
Delta R.T. 0.07 min
Lab File: VD060805.D
Acq: 30 Jan 2019 15:00

Instrument :
MSVOA_D
ClientSampleId :
TP-3RE

Tot Ion:142 Resp: 1019
Ion Ratio Lower Upper
142 100
127 0.0 61.6 92.4#
141 0.0 12.5 18.7#

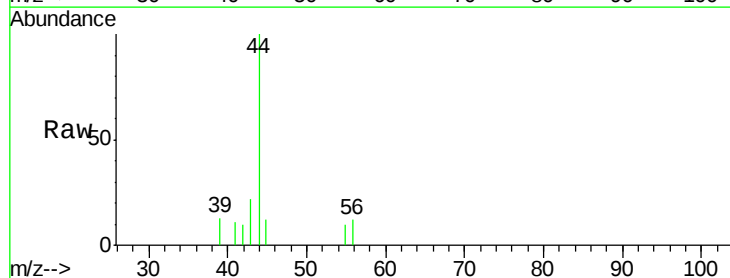


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

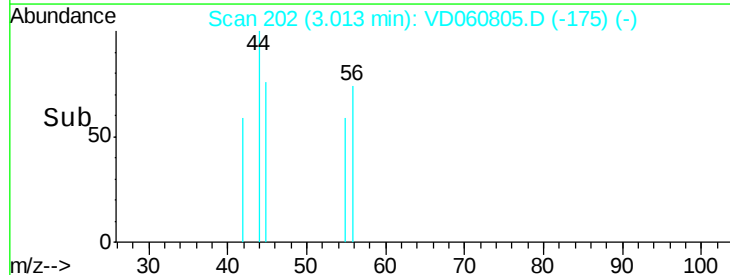
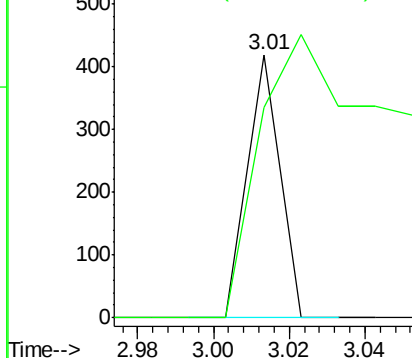


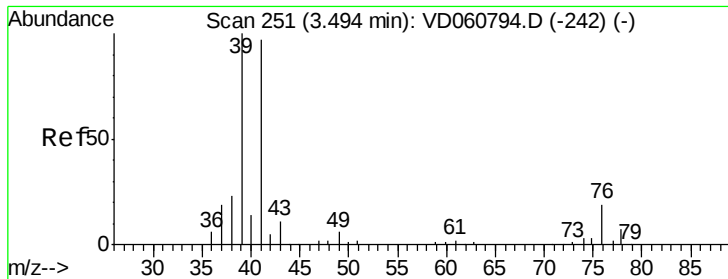
#13
Acrolein
Concen: 84.143 ug/l
RT: 3.01 min Scan# 202
Delta R.T. 0.06 min
Lab File: VD060805.D
Acq: 30 Jan 2019 15:00

Tgt Ion: 56 Resp: 247
Ion Ratio Lower Upper
56 100
55 79.7 64.2 96.2



Abundance Ion 55.95 (55.65 to 56.65): V
Ion 55.00 (54.70 to 55.70): V

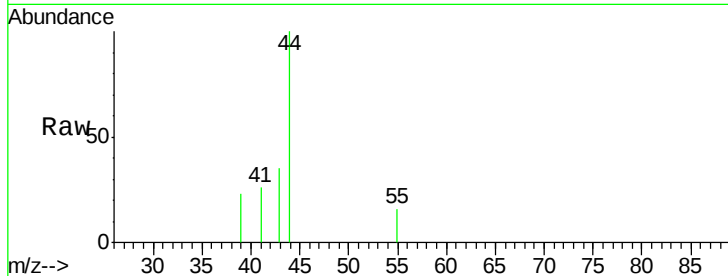




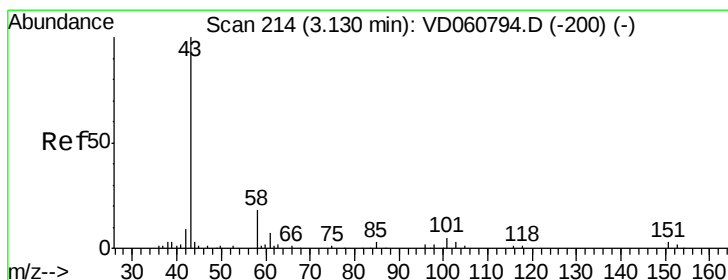
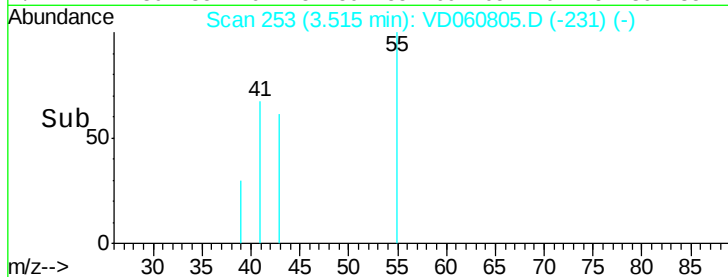
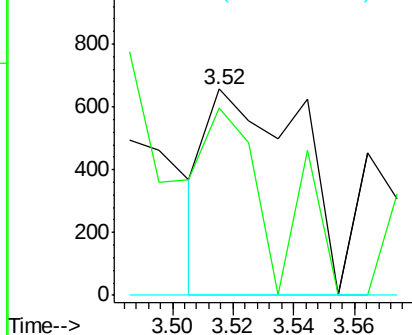
#14
Allvl chloride
Concen: 11.850 ug/l
RT: 3.52 min Scan# 253
Delta R.T. 0.02 min
Lab File: VD060805.D
Acq: 30 Jan 2019 15:00

Instrument :
MSVOA_D
ClientSampleId :
TP-3RE

Tot Ion: 41 Resp: 1380
Ion Ratio Lower Upper
41 100
39 90.9 82.6 123.8
76 0.0 18.9 28.3#

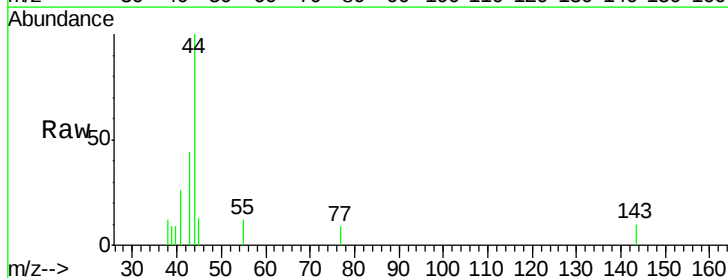


Abundance Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 75.95 (75.65 to 76.65): VDC

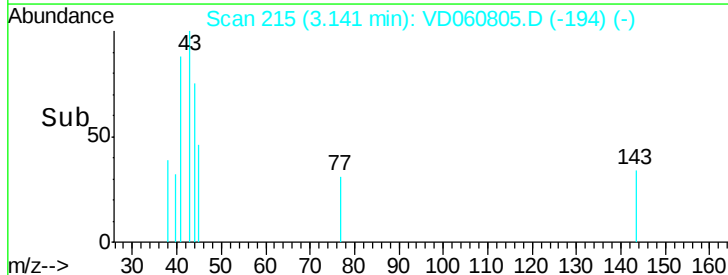
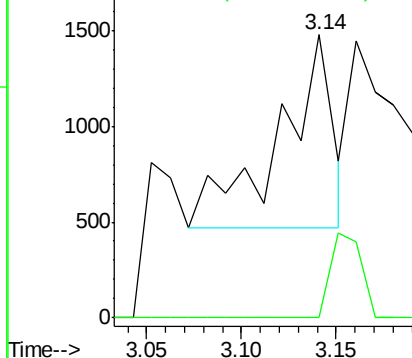


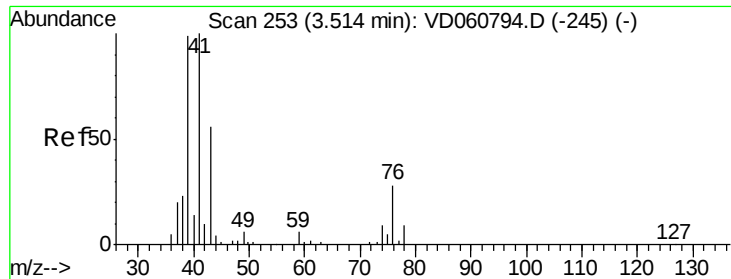
#16
Acetone
Concen: 94.173 ug/l
RT: 3.14 min Scan# 215
Delta R.T. 0.01 min
Lab File: VD060805.D
Acq: 30 Jan 2019 15:00

Tgt Ion: 43 Resp: 1981
Ion Ratio Lower Upper
43 100
58 0.0 14.5 21.7#



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

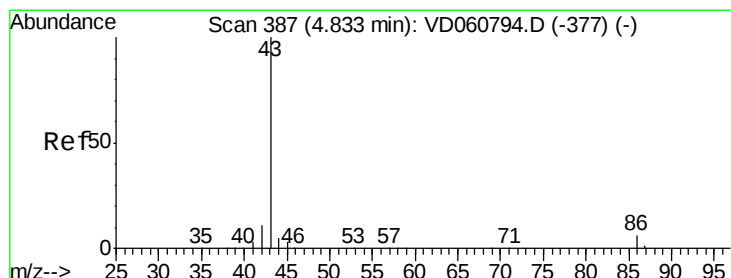
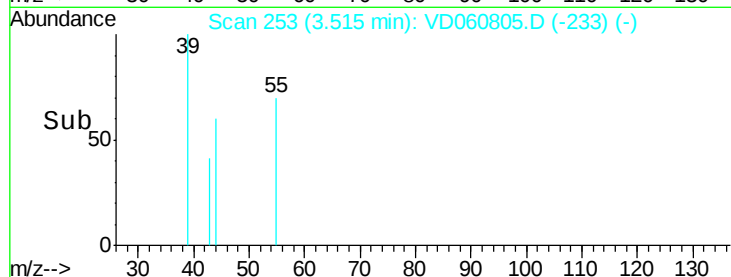
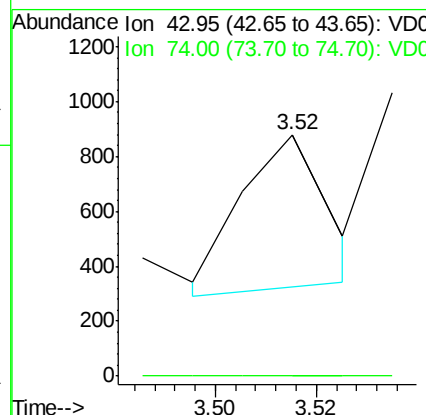
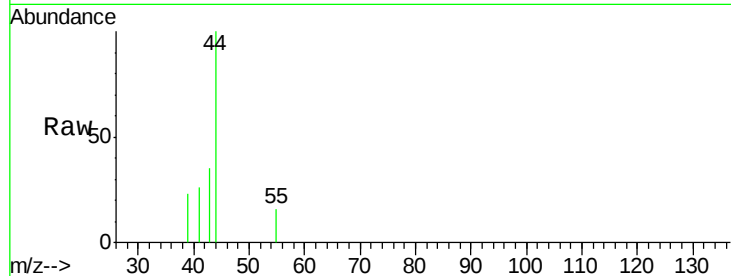




#18
Methvl Acetate
Concen: 15.755 ug/l
RT: 3.52 min Scan# 253
Delta R.T. 0.00 min
Lab File: VD060805.D
Acq: 30 Jan 2019 15:00

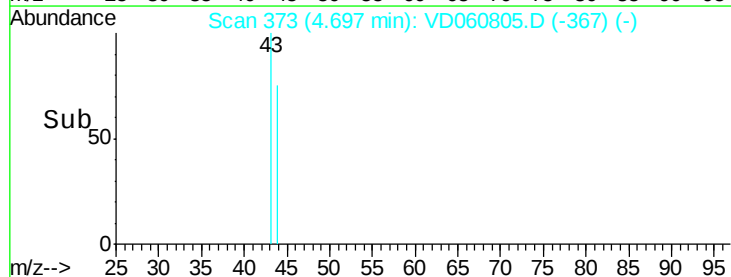
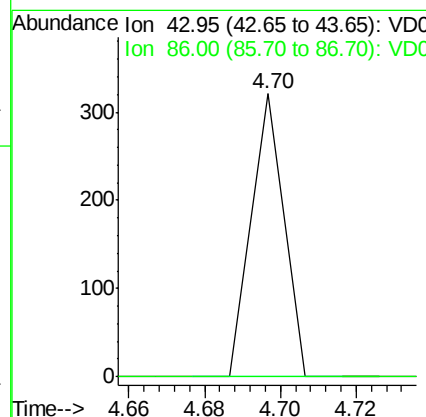
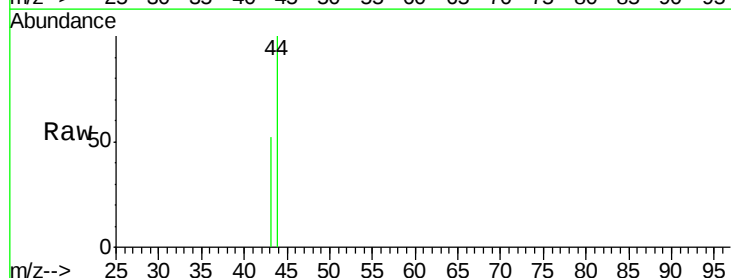
Instrument :
MSVOA_D
ClientSampleId :
TP-3RE

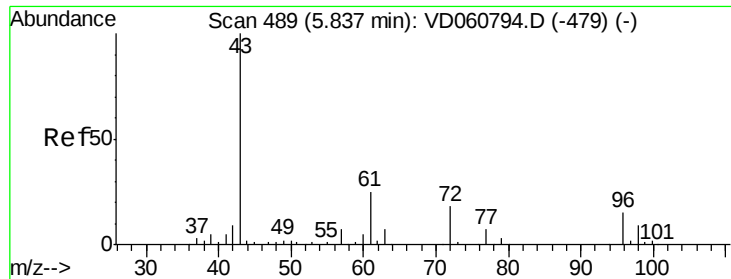
Tot Ion: 43 Resp: 657
Ion Ratio Lower Upper
43 100
74 0.0 12.5 18.7#



#23
Vinyl Acetate
Concen: 1.099 ug/l
RT: 4.70 min Scan# 373
Delta R.T. -0.14 min
Lab File: VD060805.D
Acq: 30 Jan 2019 15:00

Tgt Ion: 43 Resp: 190
Ion Ratio Lower Upper
43 100
86 0.0 4.7 7.1#





#25

2-Butanone

Concen: 14.448 ug/l

RT: 5.87 min Scan# 492

Delta R.T. 0.03 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

Instrument :

MSVOA_D

ClientSampleId :

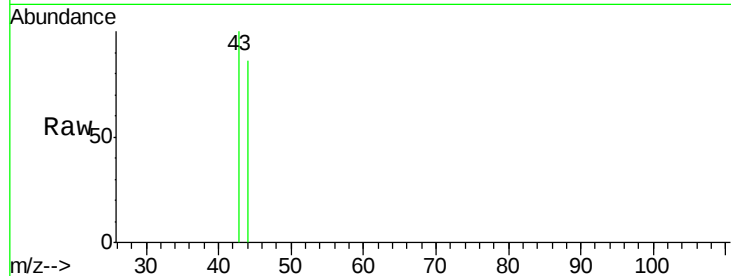
TP-3RE

Tot Ion: 43 Resp: 389

Ion Ratio Lower Upper

43 100

72 0.0 14.4 21.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

5.87

300

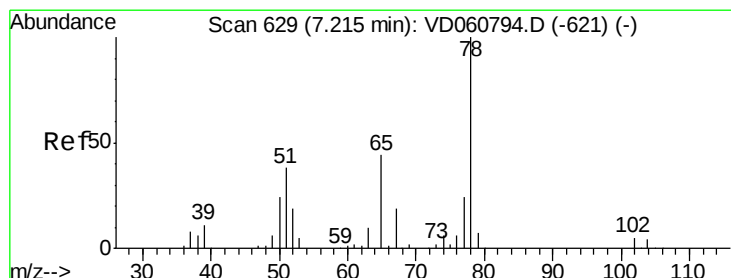
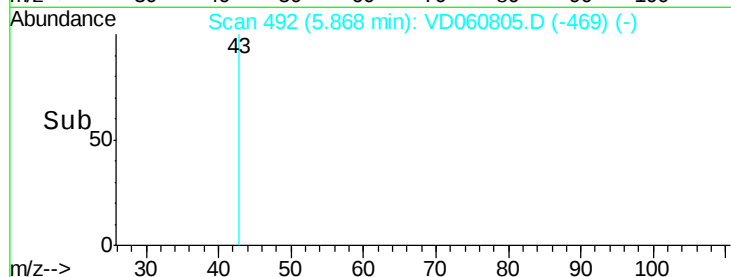
200

100

0

5.84 5.86 5.88 5.90

Time-->



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.23 min Scan# 630

Delta R.T. 0.01 min

Lab File: VD060805.D

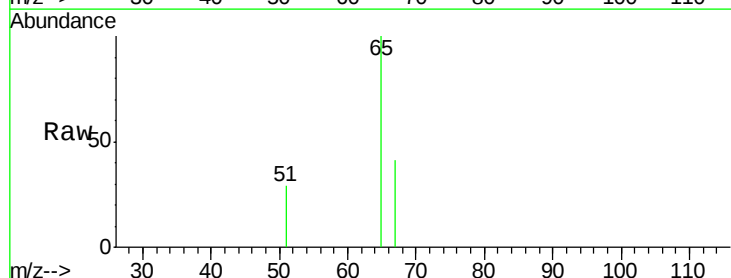
Acq: 30 Jan 2019 15:00

Tgt Ion: 65 Resp: 9884

Ion Ratio Lower Upper

65 100

67 41.5 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.23

4000

3000

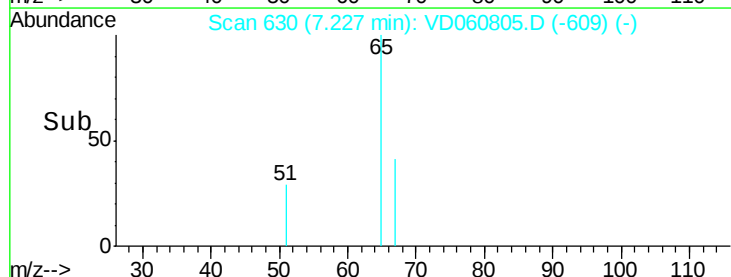
2000

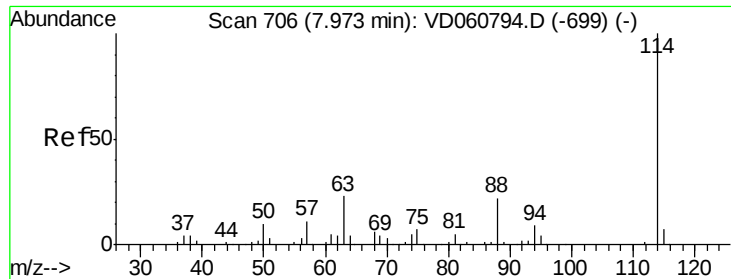
1000

0

7.15 7.20 7.25 7.30

Time-->

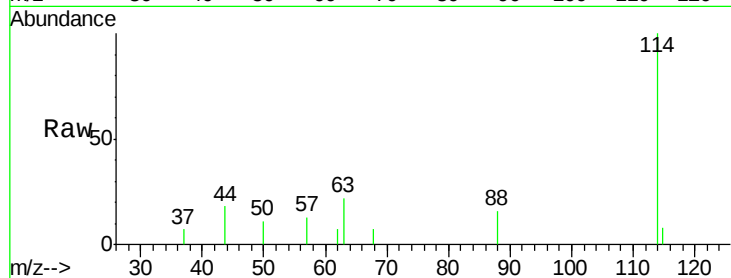




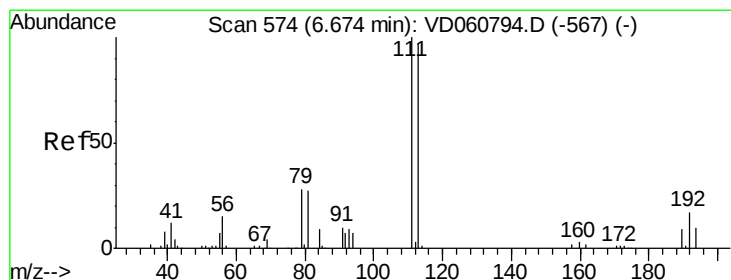
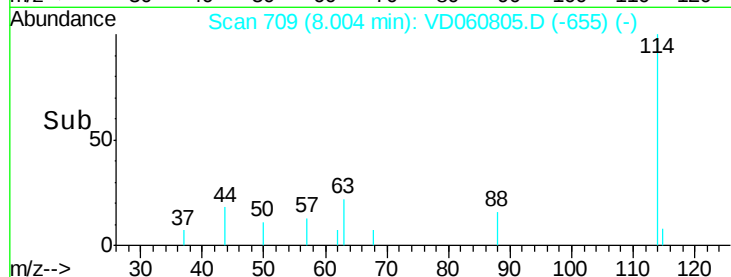
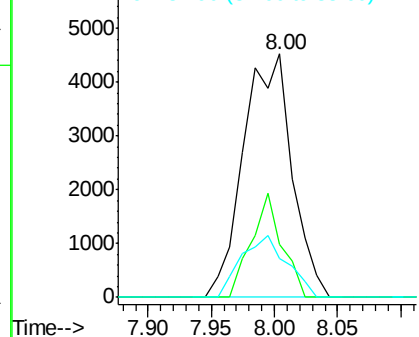
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.00 min Scan# 709
 Delta R.T. 0.03 min
 Lab File: VD060805.D
 Acq: 30 Jan 2019 15:00

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-3RE

Tot Ion:114 Resp: 12058
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 46.6
 88 16.2 0.0 44.0

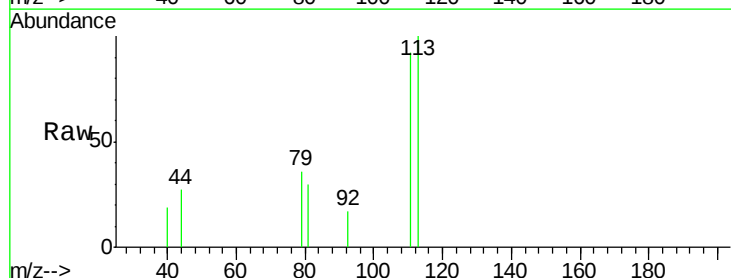


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

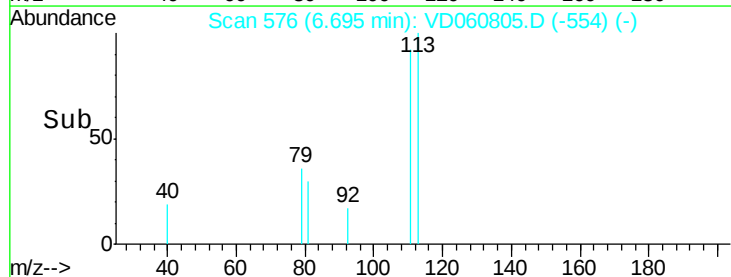
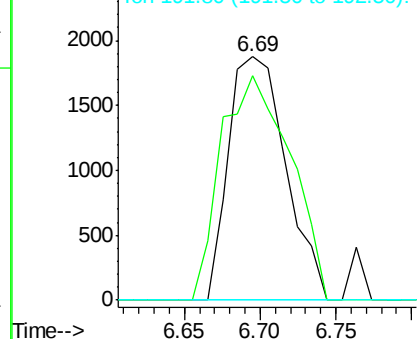


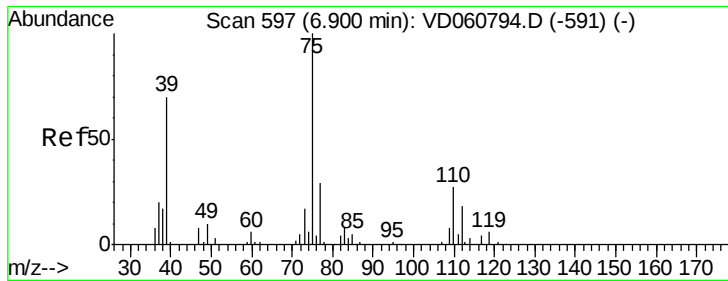
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 576
 Delta R.T. 0.02 min
 Lab File: VD060805.D
 Acq: 30 Jan 2019 15:00

Tgt Ion:113 Resp: 4955
 Ion Ratio Lower Upper
 113 100
 111 92.2 82.3 123.5
 192 0.0 14.4 21.6#



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





#36

1,1-Dichloropropene

Concen: 1.438 ug/l

RT: 6.83 min Scan# 590

Delta R.T. -0.07 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

Instrument :

MSVOA_D

ClientSampleId :

TP-3RE

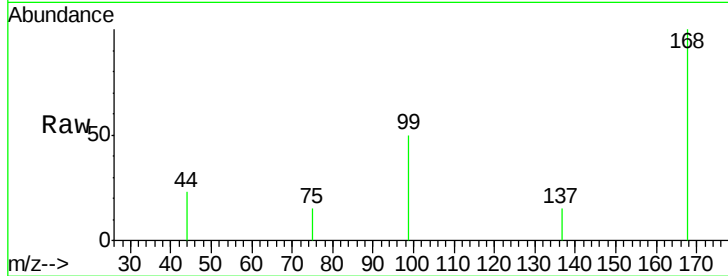
Tot Ion: 75 Resp: 207

Ion Ratio Lower Upper

75 100

110 0.0 13.5 40.4#

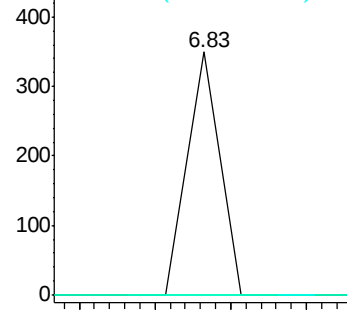
77 0.0 23.4 35.2#



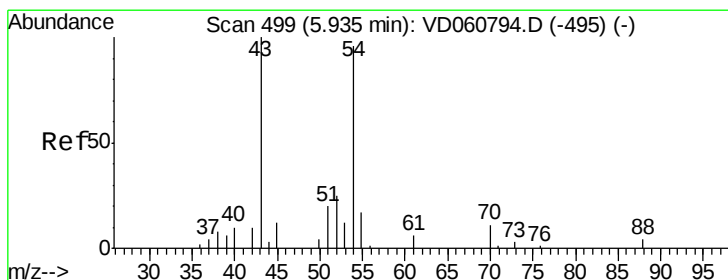
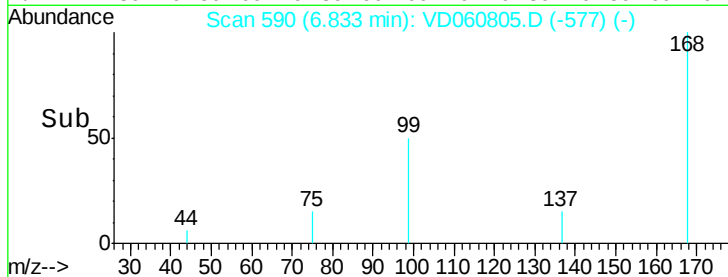
Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



Time-->



#37

Ethyl Acetate

Concen: 6.053 ug/l

RT: 5.87 min Scan# 492

Delta R.T. -0.07 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

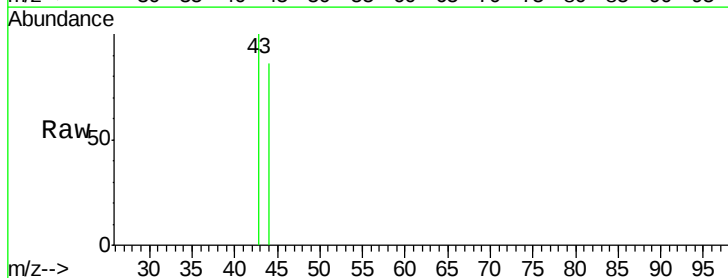
Tgt Ion: 43 Resp: 389

Ion Ratio Lower Upper

43 100

61 0.0 12.3 18.5#

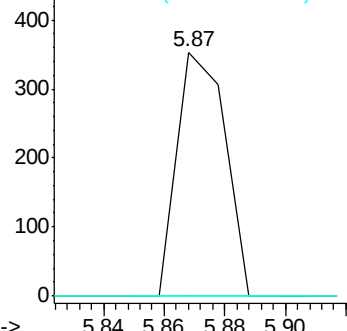
70 0.0 7.4 11.0#



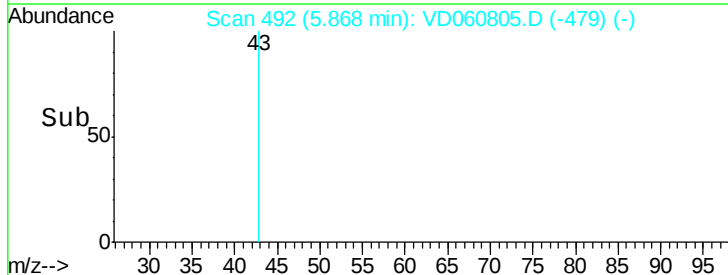
Abundance Ion 42.95 (42.65 to 43.65): VDC

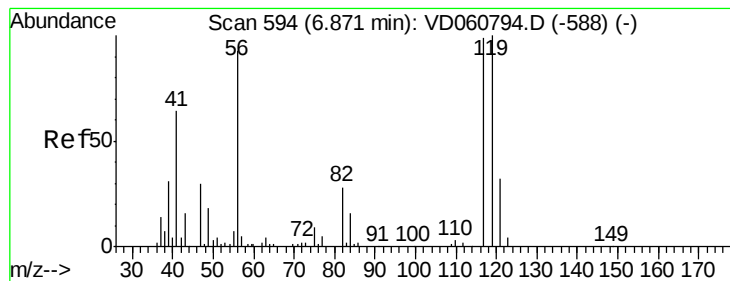
Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



Time-->





#38

Carbon Tetrachloride

Concen: 1.451 ug/l

RT: 6.81 min Scan# 588

Delta R.T. -0.06 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

Instrument :

MSVOA_D

ClientSampleId :

TP-3RE

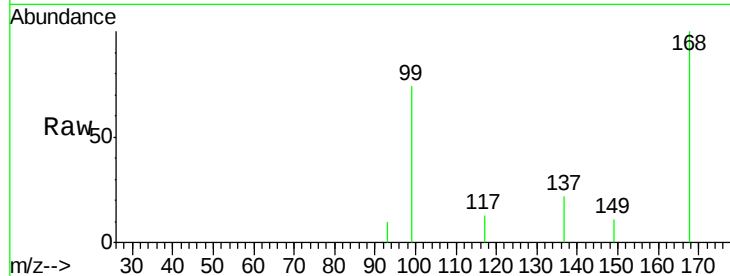
Tot Ion:117 Resp: 262

Ion Ratio Lower Upper

117 100

119 0.0 75.6 113.4#

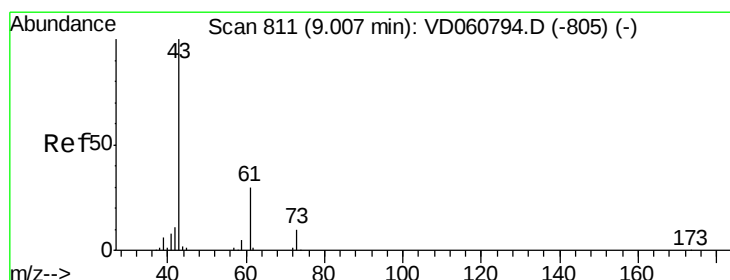
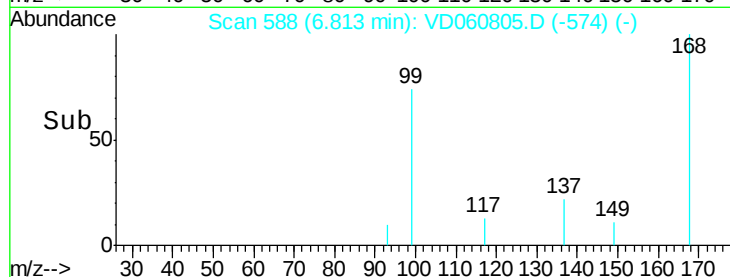
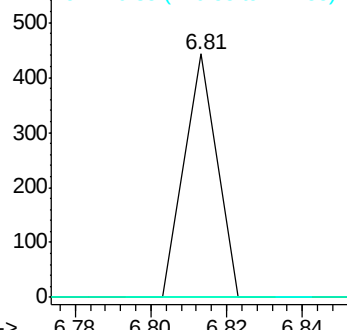
121 0.0 23.4 35.2#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#43

Isopropyl Acetate

Concen: 2.541 ug/l

RT: 9.08 min Scan# 818

Delta R.T. 0.07 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

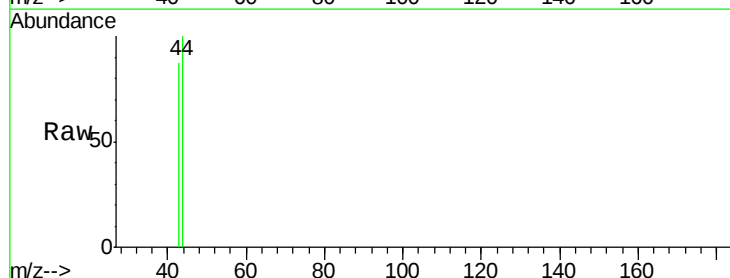
Tgt Ion: 43 Resp: 213

Ion Ratio Lower Upper

43 100

61 0.0 24.1 36.1#

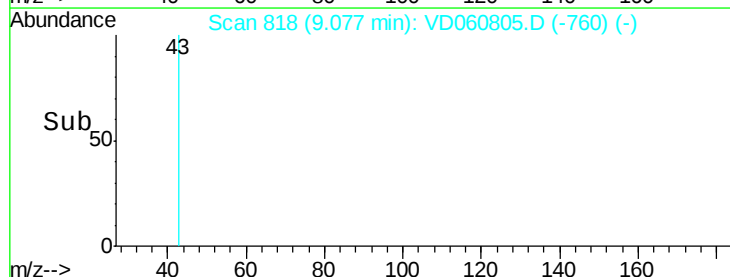
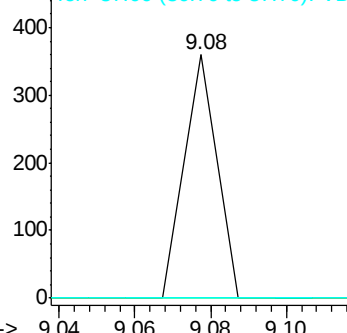
87 0.0 0.0 0.0

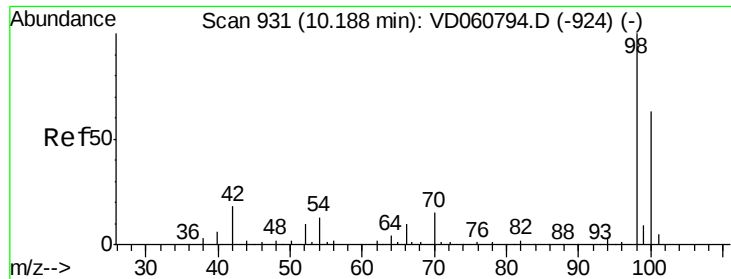


Abundance Ion 42.95 (42.65 to 43.65): V

Ion 60.95 (60.65 to 61.65): V

Ion 87.00 (86.70 to 87.70): V

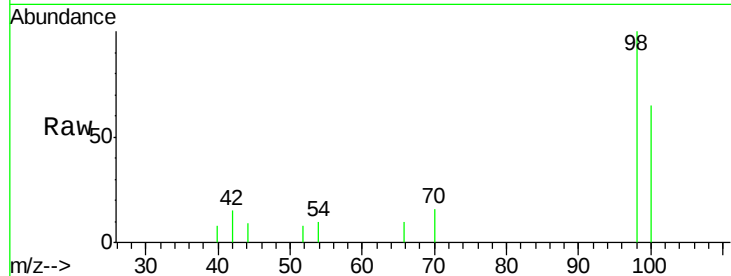




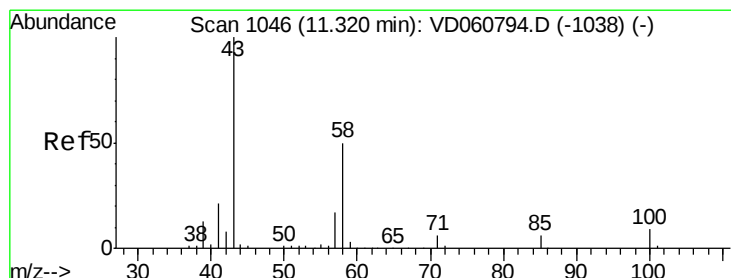
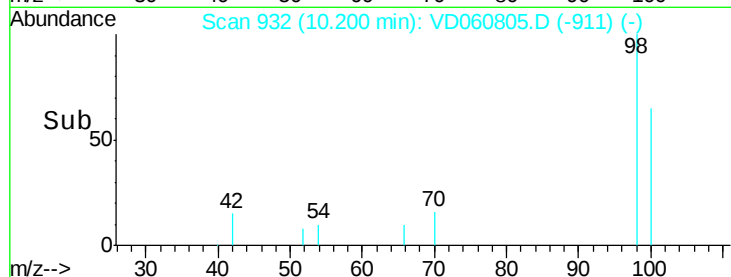
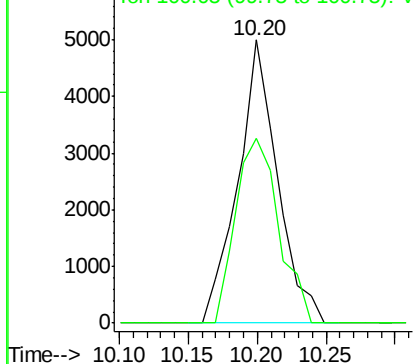
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.20 min Scan# 932
Delta R.T. 0.01 min
Lab File: VD060805.D
Acq: 30 Jan 2019 15:00

Instrument :
MSVOA_D
ClientSampleId :
TP-3RE

Tot Ion: 98 Resp: 10031
Ion Ratio Lower Upper
98 100
100 65.3 51.0 76.6

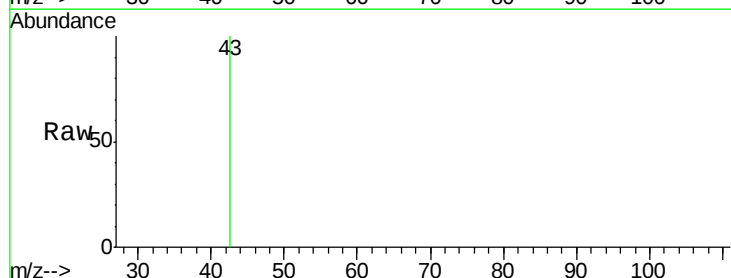


Abundance Ion 98.05 (97.75 to 98.75): VD0
Ion 100.05 (99.75 to 100.75): VD

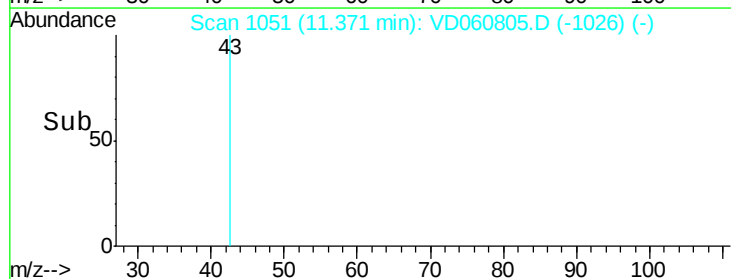
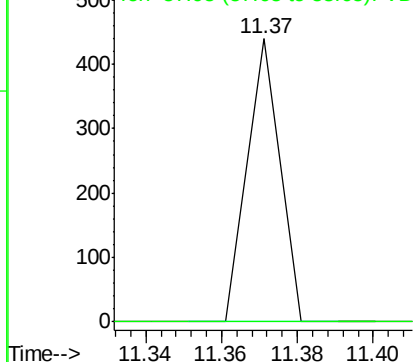


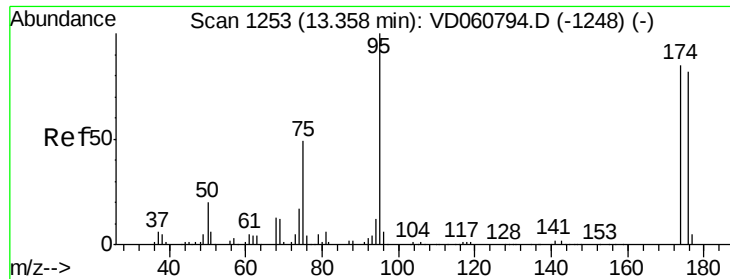
#59
2-Hexanone
Concen: 6.346 ug/l
RT: 11.37 min Scan# 1051
Delta R.T. 0.05 min
Lab File: VD060805.D
Acq: 30 Jan 2019 15:00

Tgt Ion: 43 Resp: 259
Ion Ratio Lower Upper
43 100
58 0.0 25.0 75.0#



Abundance Ion 42.95 (42.65 to 43.65): VD0
Ion 57.95 (57.65 to 58.65): VD0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.36 min Scan# 1253

Delta R.T. 0.00 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

Instrument :

MSVOA_D

ClientSampleId :

TP-3RE

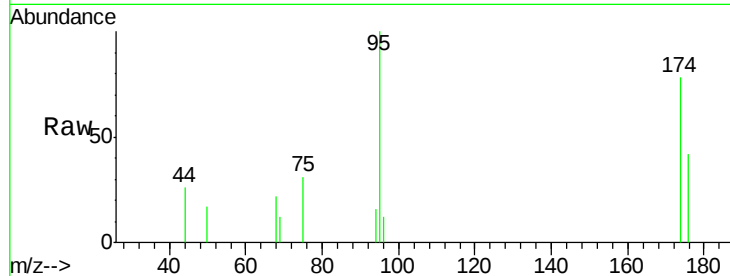
Tot Ion: 95 Resp: 2952

Ion Ratio Lower Upper

95 100

174 77.6 0.0 169.6

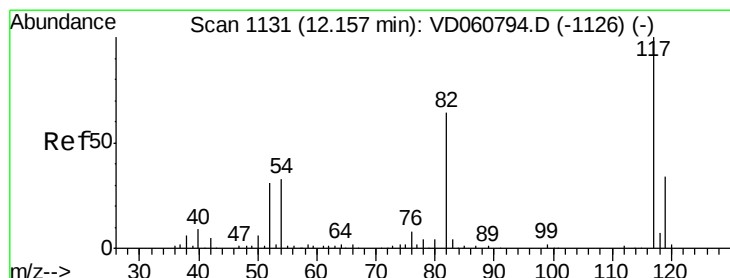
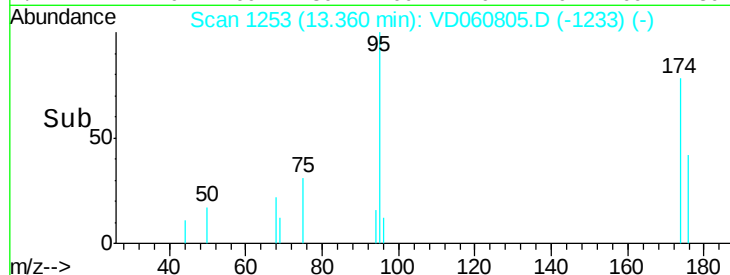
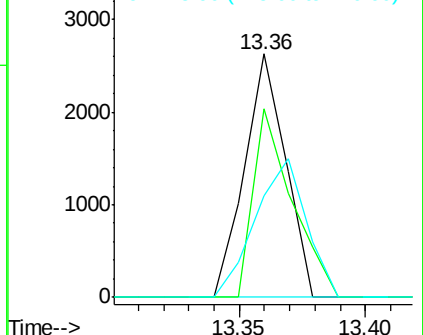
176 41.6 0.0 163.8



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.17 min Scan# 1132

Delta R.T. 0.01 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

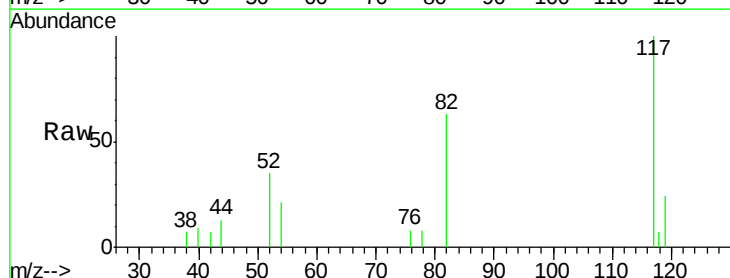
Tgt Ion: 117 Resp: 9376

Ion Ratio Lower Upper

117 100

82 63.0 51.5 77.3

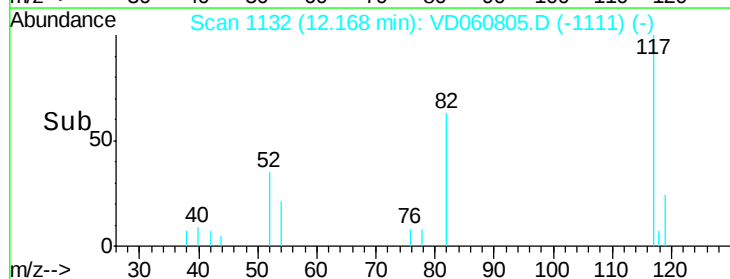
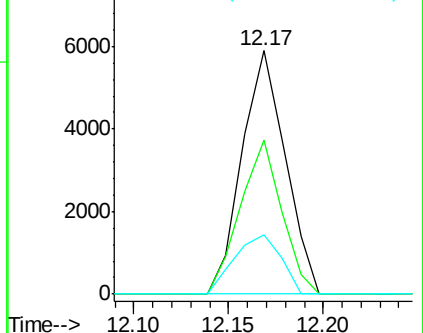
119 24.3 27.1 40.7#

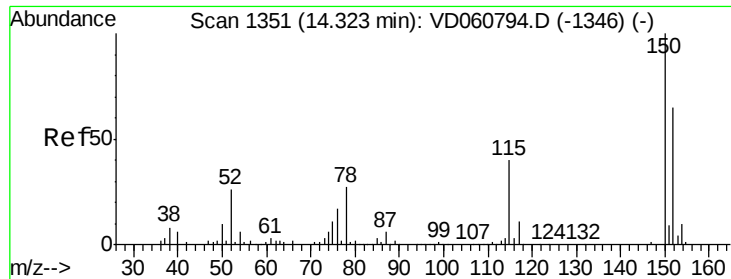


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.32 min Scan# 1351

Delta R.T. 0.00 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

Instrument :

MSVOA_D

ClientSampleId :

TP-3RE

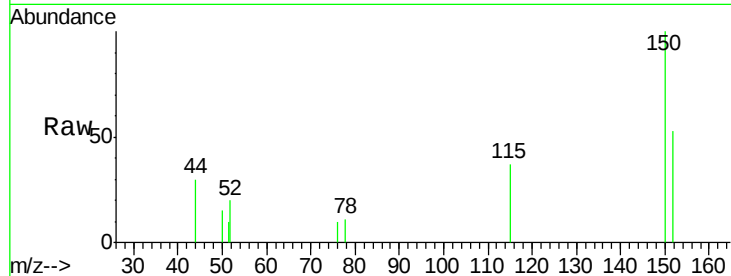
Tot Ion:152 Resp: 2172

Ion Ratio Lower Upper

152 100

115 70.0 31.6 95.0

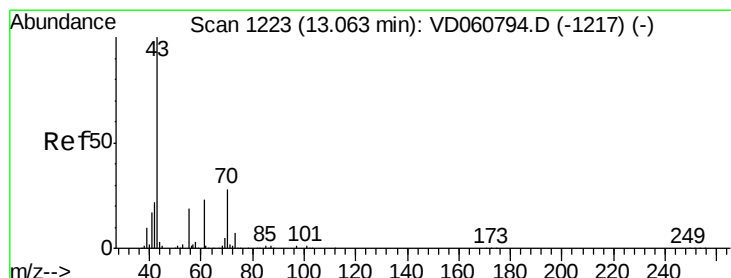
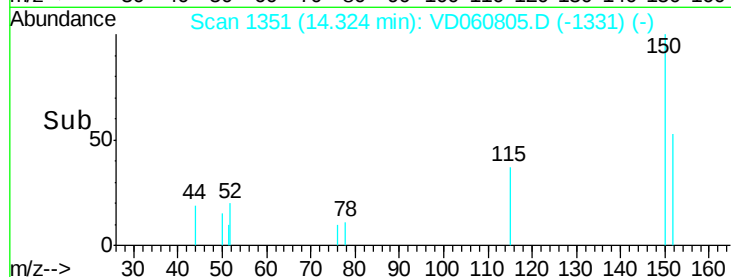
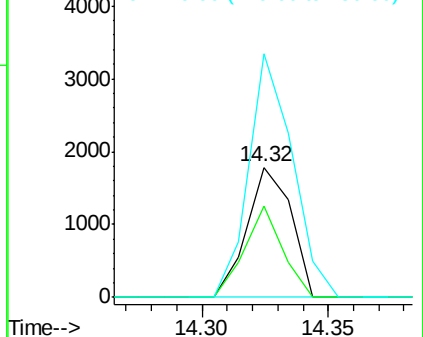
150 187.3 0.0 317.6



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



#74

N-ethyl acetate

Concen: 3.362 ug/l

RT: 12.79 min Scan# 1195

Delta R.T. -0.27 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

Tgt Ion: 43 Resp: 179

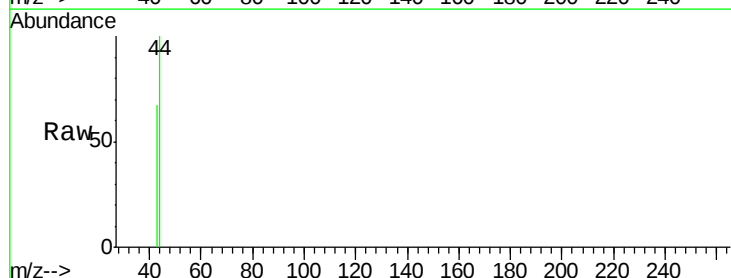
Ion Ratio Lower Upper

43 100

70 0.0 22.2 33.4#

55 0.0 15.5 23.3#

61 0.0 18.4 27.6#

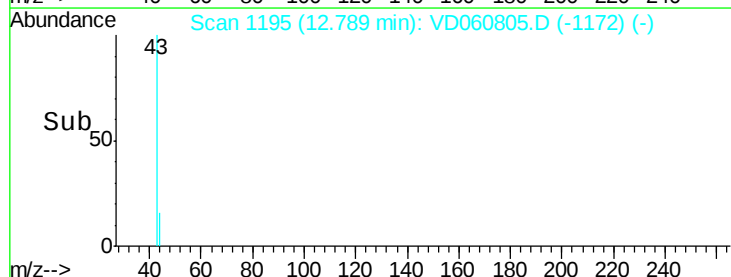
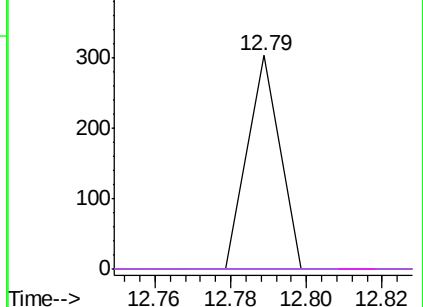


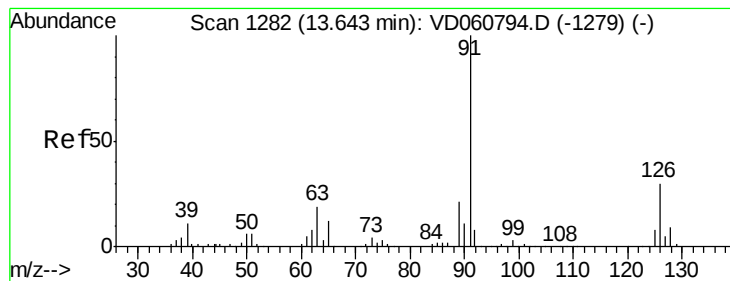
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#79

2-Chlorotoluene

Concen: 1.463 ug/l

RT: 13.58 min Scan# 1275

Delta R.T. -0.07 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

Instrument :

MSVOA_D

ClientSampleId :

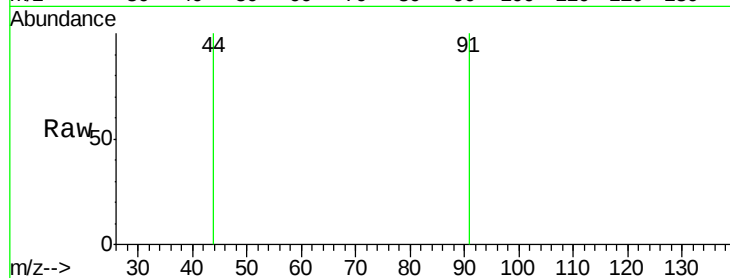
TP-3RE

Tot Ion: 91 Resp: 194

Ion Ratio Lower Upper

91 100

126 0.0 14.7 44.1#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): VDC

13.58

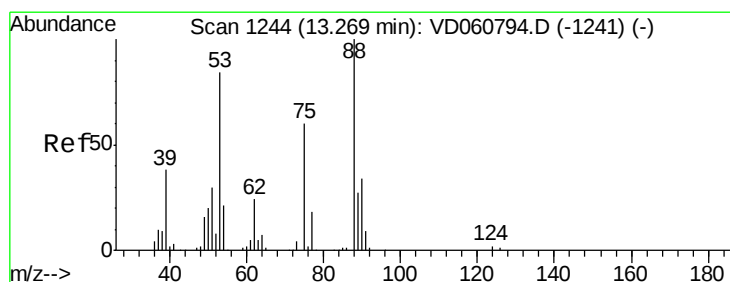
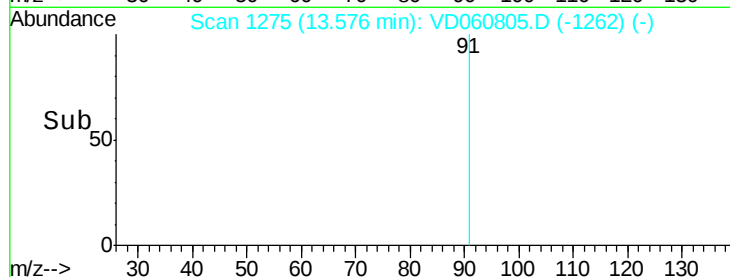
300

200

100

0

Time--> 13.54 13.56 13.58 13.60



#81

trans-1,4-Dichloro-2-butene

Concen: 128.758 ug/l

RT: 13.36 min Scan# 1253

Delta R.T. 0.09 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

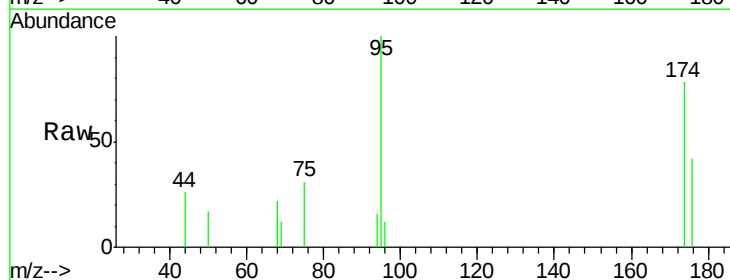
Tgt Ion: 75 Resp: 1337

Ion Ratio Lower Upper

75 100

53 0.0 111.6 167.4#

89 0.0 35.9 53.9#



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

13.36

1000

800

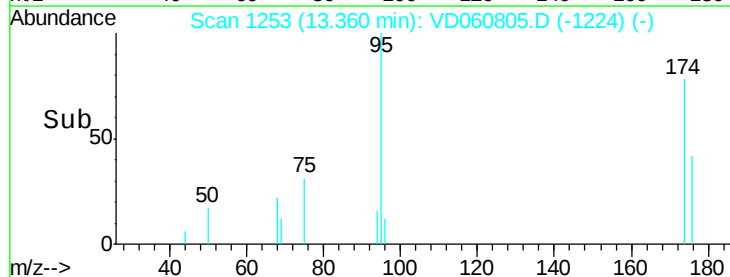
600

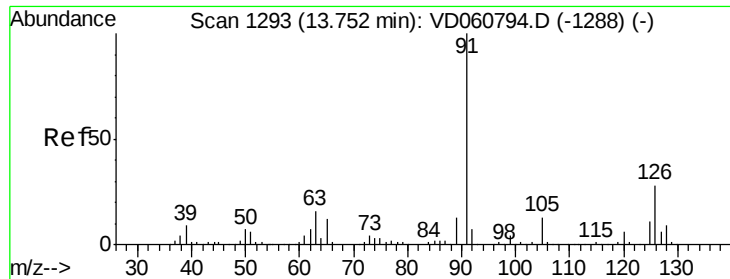
400

200

0

Time--> 13.35 13.40





#82

4-Chlorotoluene

Concen: 3.094 ug/l

RT: 13.75 min Scan# 1293

Delta R.T. 0.00 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

Instrument :

MSVOA_D

ClientSampleId :

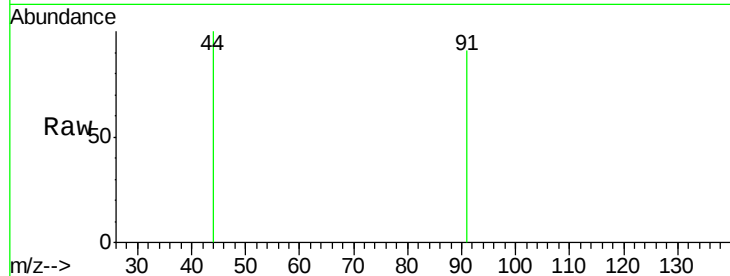
TP-3RE

Tot Ion: 91 Resp: 456

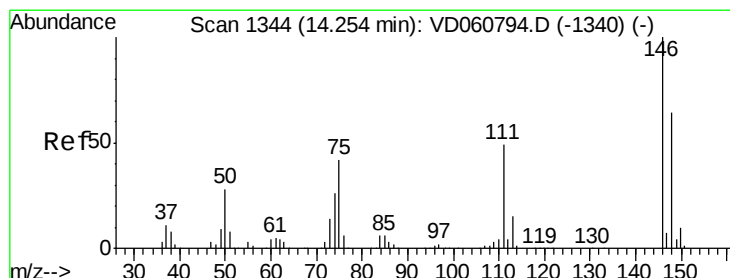
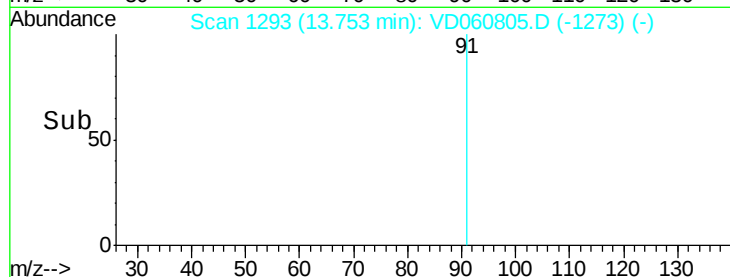
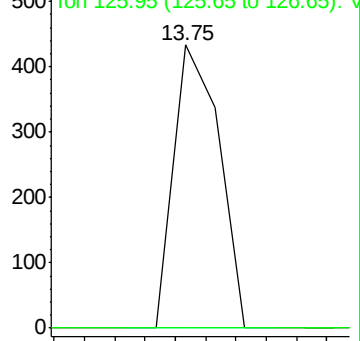
Ion Ratio Lower Upper

91 100

126 0.0 13.9 41.7#



Abundance Ion 91.00 (90.70 to 91.70): V



#87

1,3-Dichlorobenzene

Concen: 4.283 ug/l

RT: 14.27 min Scan# 1345

Delta R.T. 0.01 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

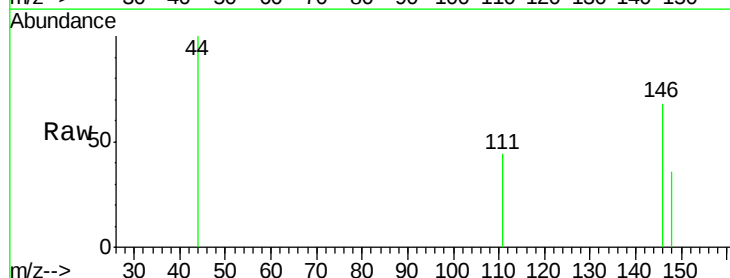
Tgt Ion: 146 Resp: 341

Ion Ratio Lower Upper

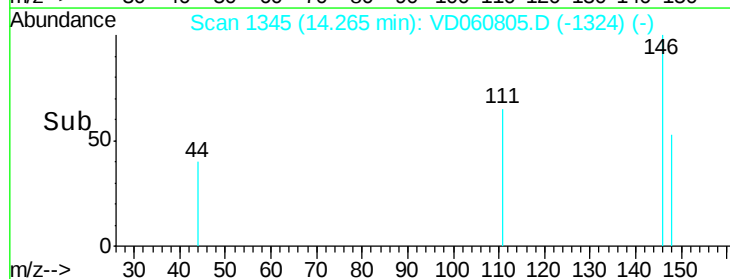
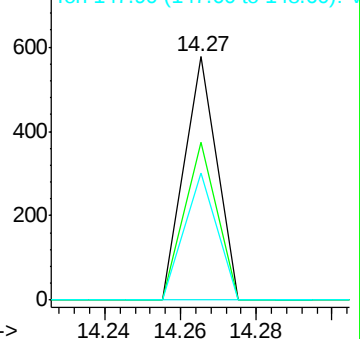
146 100

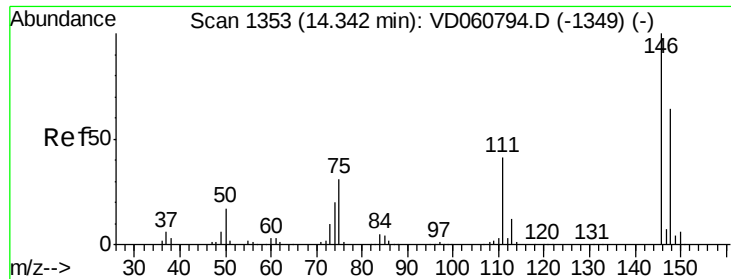
111 64.8 24.3 73.0

148 52.5 32.1 96.5



Abundance Ion 145.95 (145.65 to 146.65): V





#88

1,4-Dichlorobenzene

Concen: 7.613 ug/l

RT: 14.34 min Scan# 1353

Delta R.T. 0.00 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

Instrument :

MSVOA_D

ClientSampleId :

TP-3RE

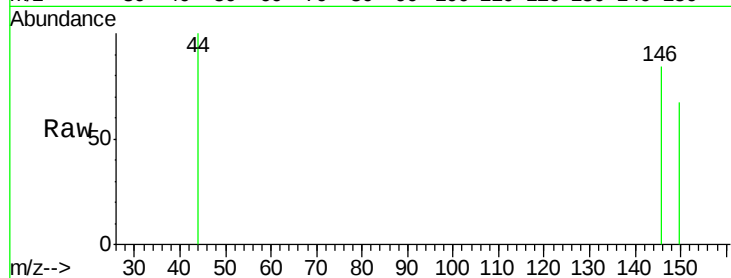
Tot Ion:146 Resp: 589

Ion Ratio Lower Upper

146 100

111 0.0 20.6 61.8#

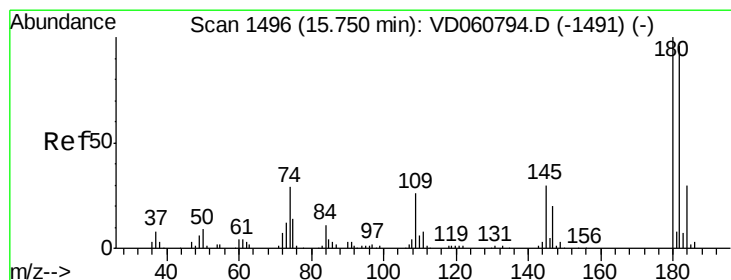
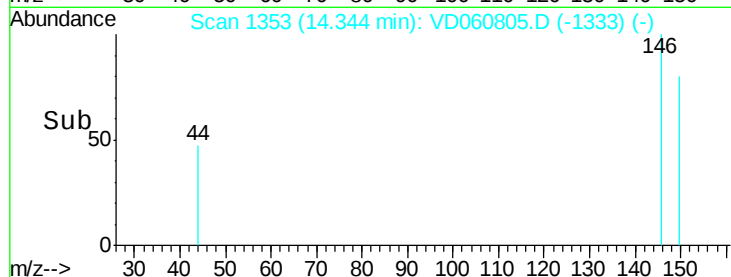
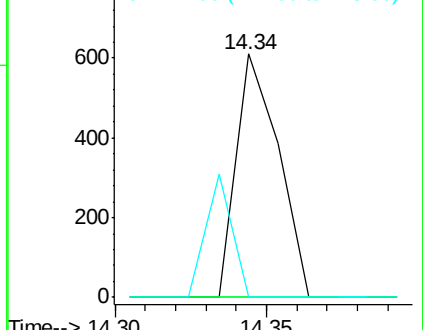
148 0.0 31.9 95.7#



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



#93

1,2,4-Trichlorobenzene

Concen: 4.019 ug/l

RT: 15.75 min Scan# 1496

Delta R.T. 0.00 min

Lab File: VD060805.D

Acq: 30 Jan 2019 15:00

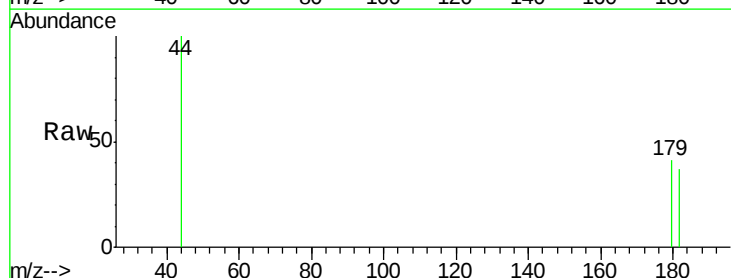
Tgt Ion:180 Resp: 230

Ion Ratio Lower Upper

180 100

182 91.0 47.9 143.7

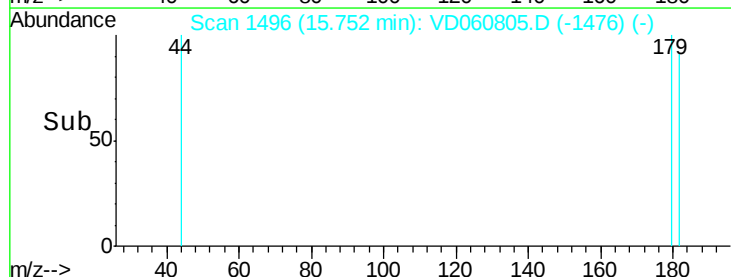
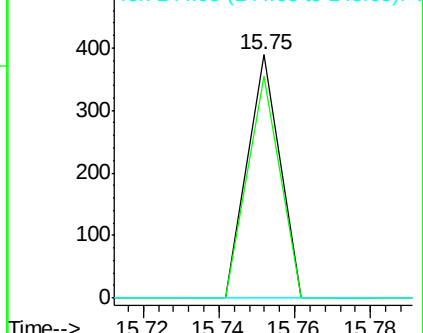
145 0.0 15.0 45.1#

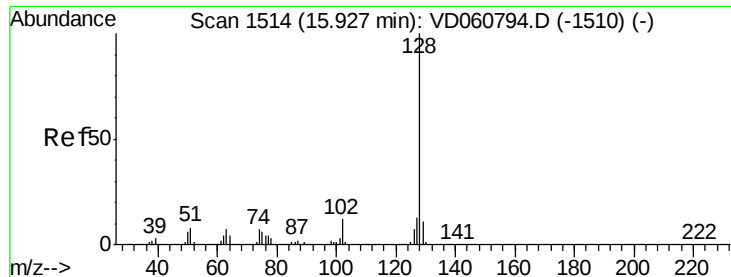


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

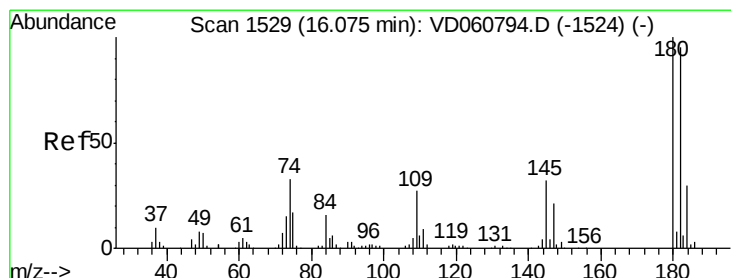
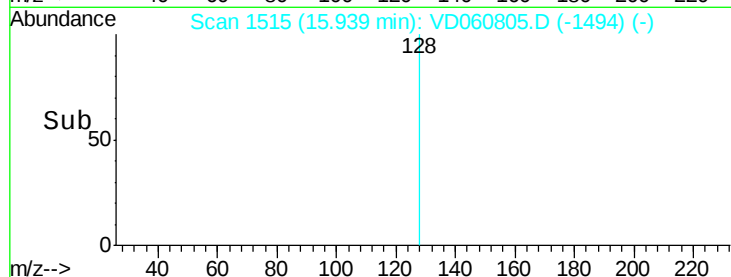
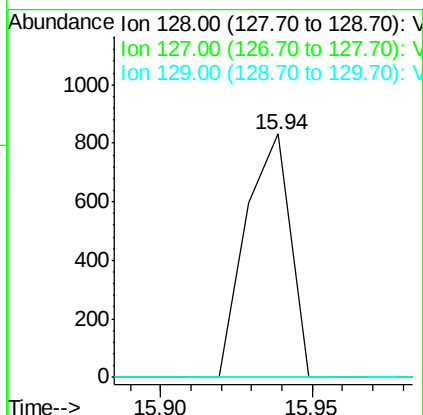
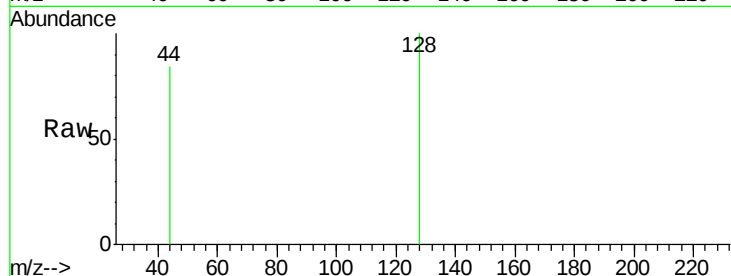




#95
Naphthalene
Concen: 9.588 ug/l
RT: 15.94 min Scan# 1515
Delta R.T. 0.01 min
Lab File: VD060805.D
Acq: 30 Jan 2019 15:00

Instrument :
MSVOA_D
ClientSampled :
TP-3RE

Tot Ion:128 Resp: 843
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 4.461 ug/l
RT: 16.09 min Scan# 1530
Delta R.T. 0.01 min
Lab File: VD060805.D
Acq: 30 Jan 2019 15:00

Tgt Ion:180 Resp: 222
Ion Ratio Lower Upper
180 100
182 0.0 47.4 142.3#
145 0.0 15.8 47.4#

