

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD013019\
 Data File : VD060806.D
 Acq On : 30 Jan 2019 15:28
 Operator : VA/AP
 Sample : K1282-13RE
 Misc : 3.00g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-4RE

Quant Time: Jan 31 05:02:04 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	26600	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	7.99	114	35098	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.16	117	24578	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.33	152	8715	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.22	65	26587	65.20	ug/l	0.00
Spiked Amount			Recovery	=	130.40%	
35) Dibromofluoromethane	6.70	113	16376	48.65	ug/l	0.03
Spiked Amount			Recovery	=	97.30%	
50) Toluene-d8	10.19	98	30963	39.39	ug/l	0.00
Spiked Amount			Recovery	=	78.78%	
62) 4-Bromofluorobenzene	13.35	95	10896	27.58	ug/l	0.00
Spiked Amount			Recovery	=	55.16%	

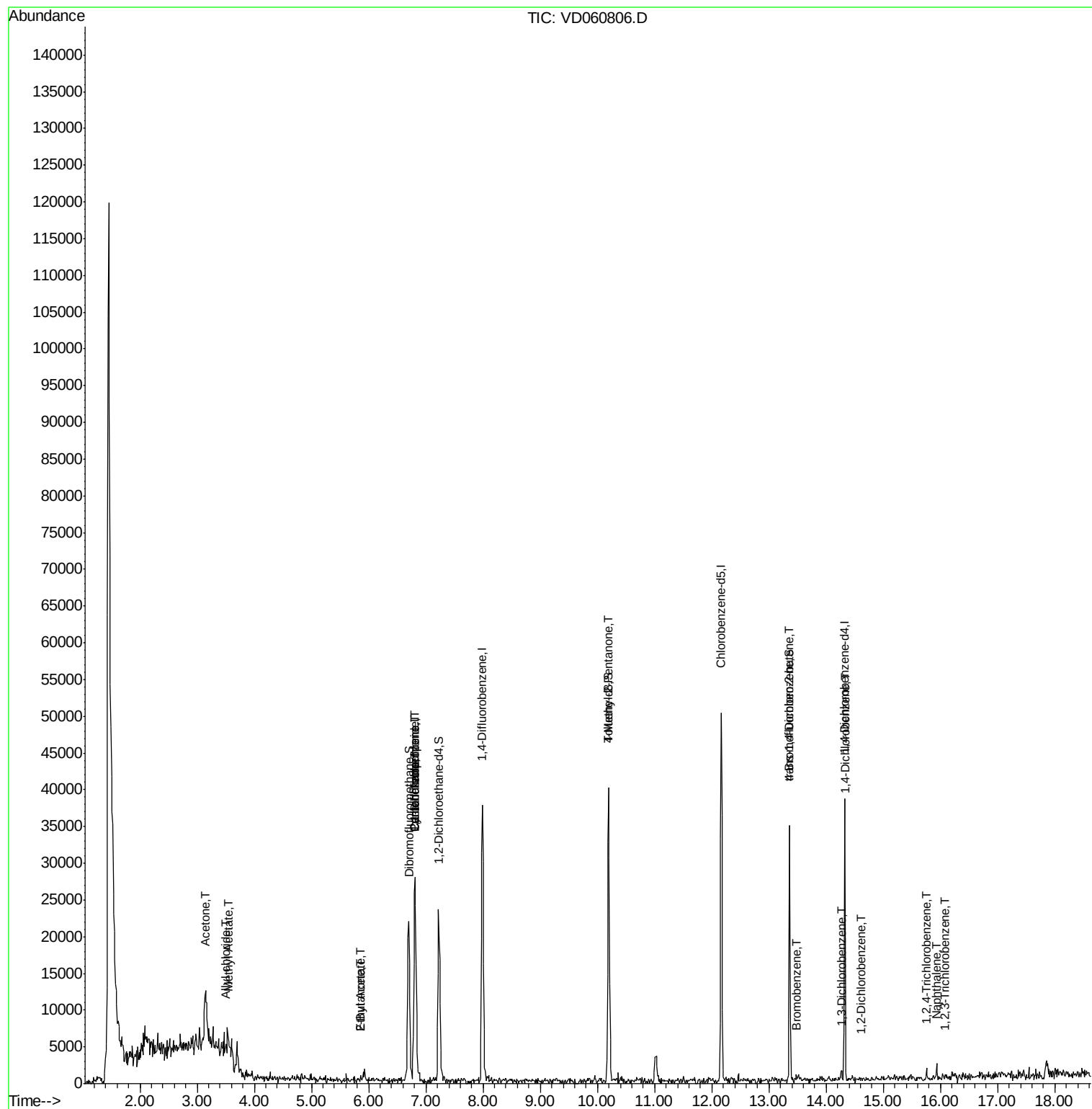
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	3.51	41	1106	3.392	ug/l #	61
16) Acetone	3.15	43	15938	270.594	ug/l	98
18) Methyl Acetate	3.55	43	2181	18.679	ug/l #	63
20) Methylene Chloride	3.70	84	1081	Below Cal	#	85
25) 2-Butanone	5.85	43	588	7.800	ug/l #	59
31) Cyclohexane	6.80	56	388	1.037	ug/l #	2
36) 1,1-Dichloropropene	6.80	75	1527	3.644	ug/l #	47
37) Ethyl Acetate	5.85	43	588	3.143	ug/l #	68
38) Carbon Tetrachloride	6.82	117	1631	3.104	ug/l #	13
51) 4-Methyl-2-Pentanone	10.20	43	236	1.494	ug/l #	39
77) Bromobenzene	13.47	156	185	1.036	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.35	75	5588	134.119	ug/l #	1
87) 1,3-Dichlorobenzene	14.26	146	672	2.103	ug/l #	22
88) 1,4-Dichlorobenzene	14.34	146	564	1.817	ug/l #	46
91) 1,2-Dichlorobenzene	14.61	146	271	1.022	ug/l #	22
93) 1,2,4-Trichlorobenzene	15.76	180	635	2.766	ug/l #	86
95) Naphthalene	15.93	128	1973	5.593	ug/l #	69
96) 1,2,3-Trichlorobenzene	16.08	180	226	1.132	ug/l #	80

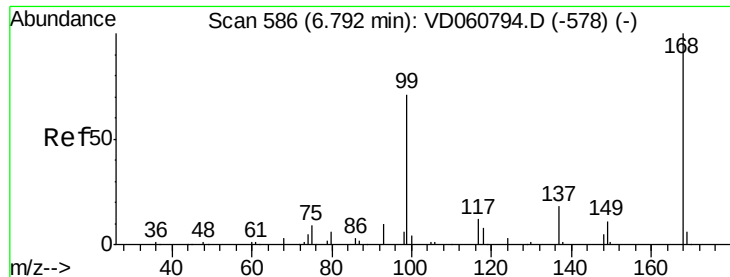
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 587

Delta R.T. 0.02 min

Lab File: VD060806.D

Acq: 30 Jan 2019 15:28

Instrument :

MSVOA_D

ClientSampleId :

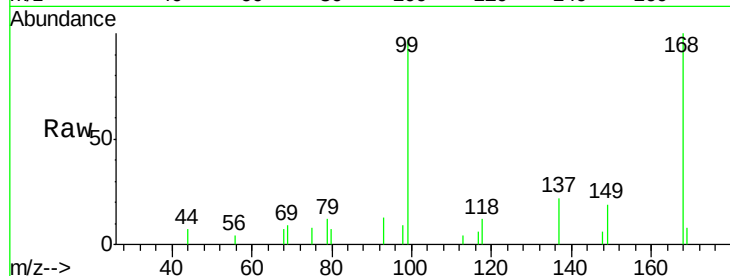
TP-4RE

Tot Ion:168 Resp: 26600

Ion Ratio Lower Upper

168 100

99 96.6 59.2 88.8#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.81

8000

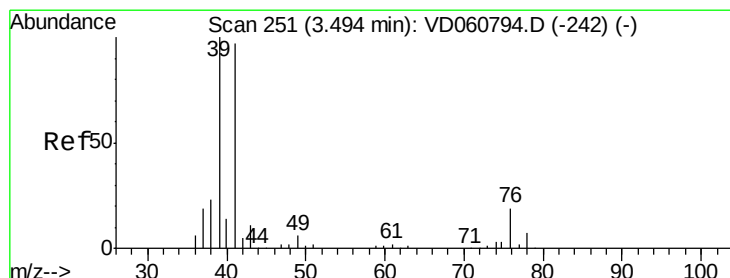
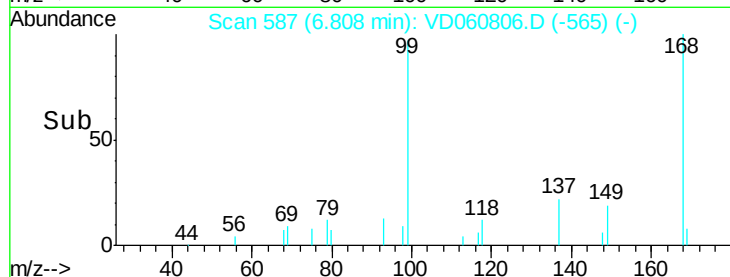
6000

4000

2000

0

Time-->



#14

Allyl chloride

Concen: 3.392 ug/l

RT: 3.51 min Scan# 252

Delta R.T. 0.02 min

Lab File: VD060806.D

Acq: 30 Jan 2019 15:28

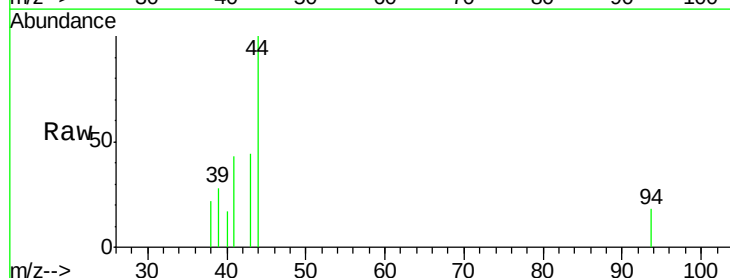
Tgt Ion: 41 Resp: 1106

Ion Ratio Lower Upper

41 100

39 65.6 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

1200

1000

800

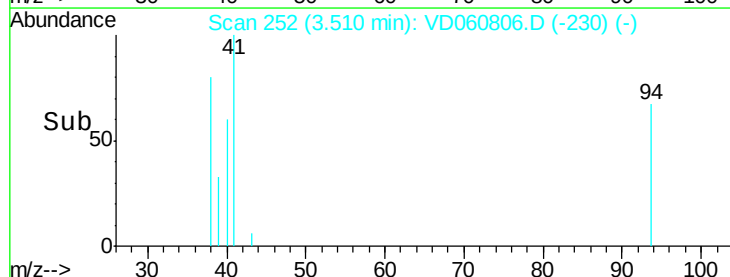
600

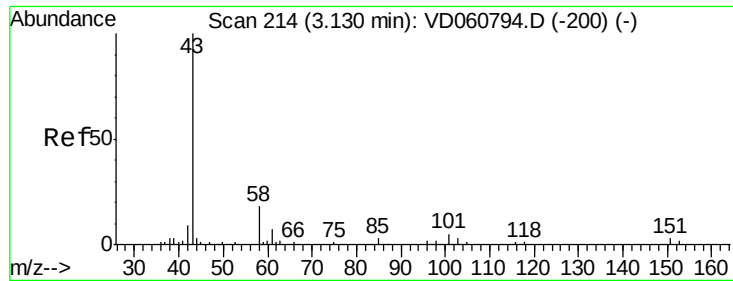
400

200

0

Time-->





#16

Acetone

Concen: 270.594 ug/l

RT: 3.15 min Scan# 215

Delta R.T. 0.02 min

Lab File: VD060806.D

Acq: 30 Jan 2019 15:28

Instrument :

MSVOA_D

ClientSampleId :

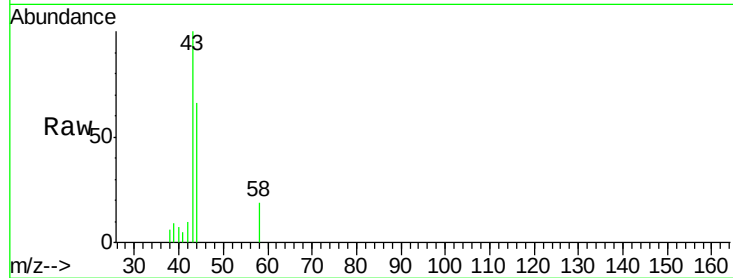
TP-4RE

Tot Ion: 43 Resp: 15938

Ion Ratio Lower Upper

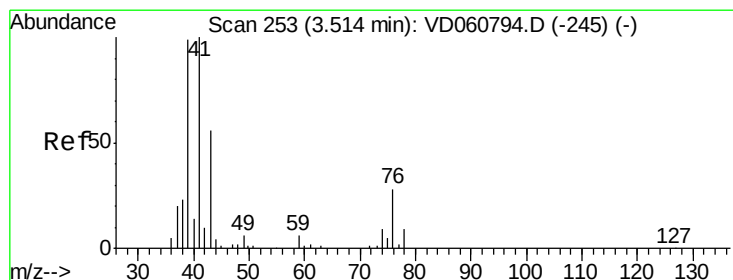
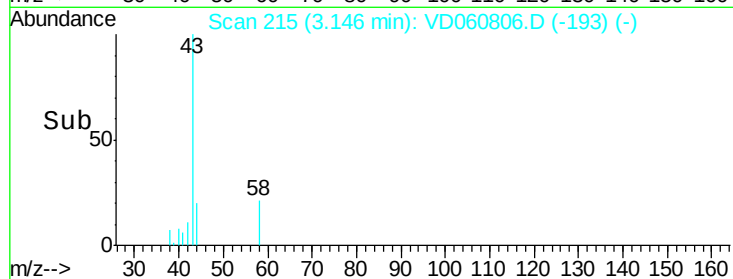
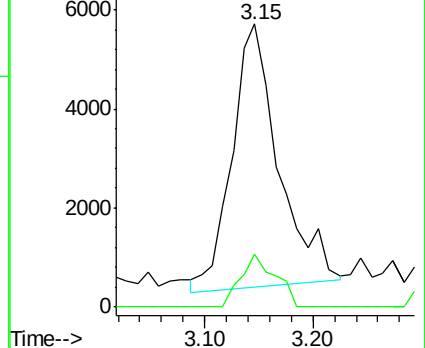
43 100

58 18.8 14.5 21.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 18.679 ug/l

RT: 3.55 min Scan# 256

Delta R.T. 0.04 min

Lab File: VD060806.D

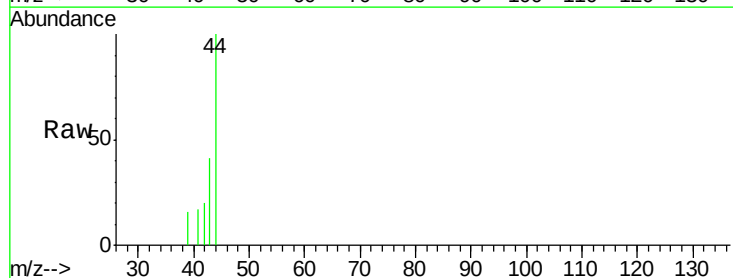
Acq: 30 Jan 2019 15:28

Tgt Ion: 43 Resp: 2181

Ion Ratio Lower Upper

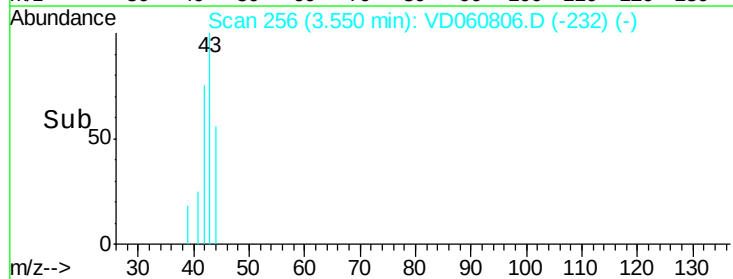
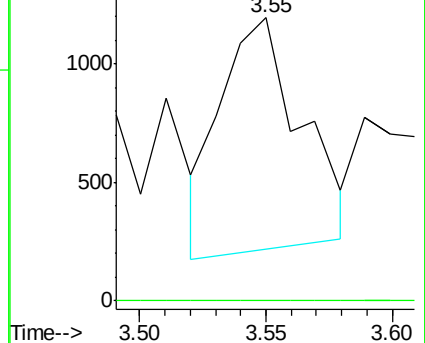
43 100

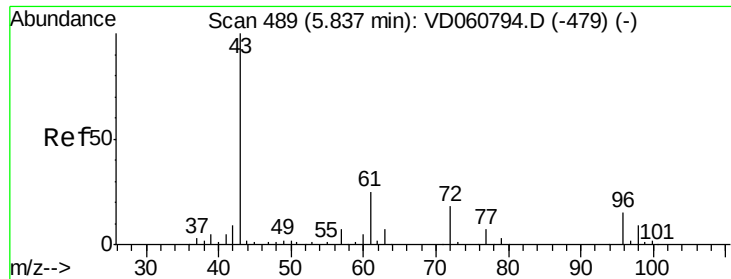
74 0.0 12.5 18.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#25

2-Butanone

Concen: 7.800 ug/l

RT: 5.85 min Scan# 490

Delta R.T. 0.02 min

Lab File: VD060806.D

Acq: 30 Jan 2019 15:28

Instrument :

MSVOA_D

ClientSampleId :

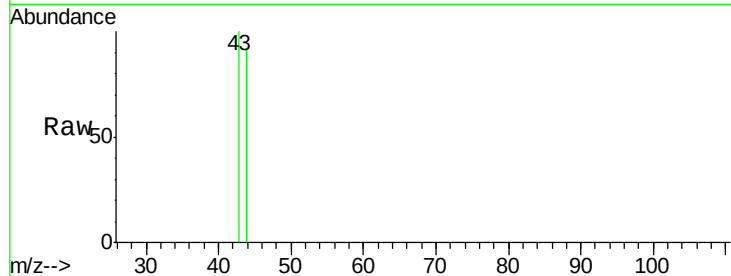
TP-4RE

Tot Ion: 43 Resp: 588

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

5.85

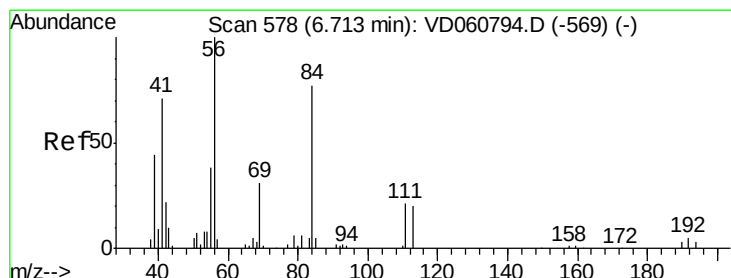
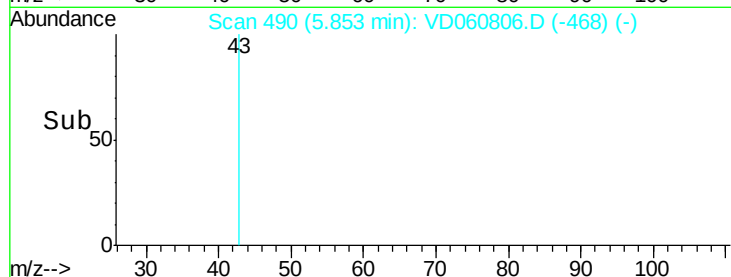
600

400

200

0

Time--> 5.82 5.84 5.86 5.88 5.90



#31

Cyclohexane

Concen: 1.037 ug/l

RT: 6.80 min Scan# 586

Delta R.T. 0.09 min

Lab File: VD060806.D

Acq: 30 Jan 2019 15:28

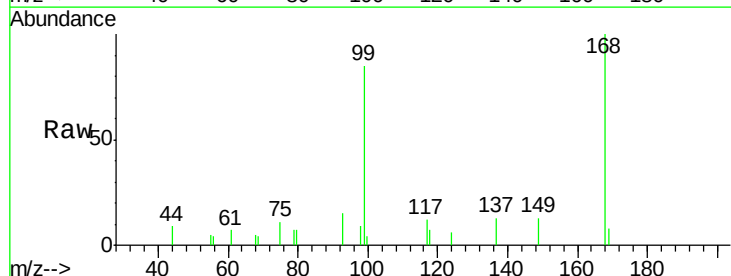
Tgt Ion: 56 Resp: 388

Ion Ratio Lower Upper

56 100

69 95.2 25.1 37.7#

84 0.0 63.9 95.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

1000

800

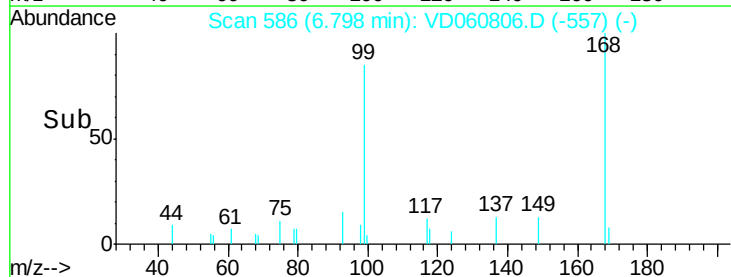
600

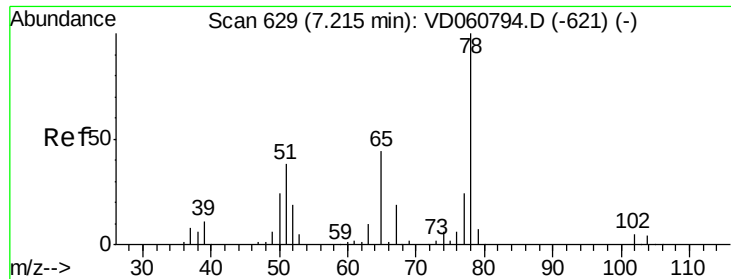
400

200

0

Time--> 6.76 6.78 6.80 6.82 6.84

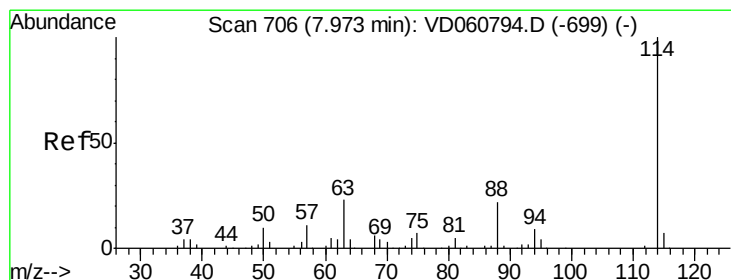
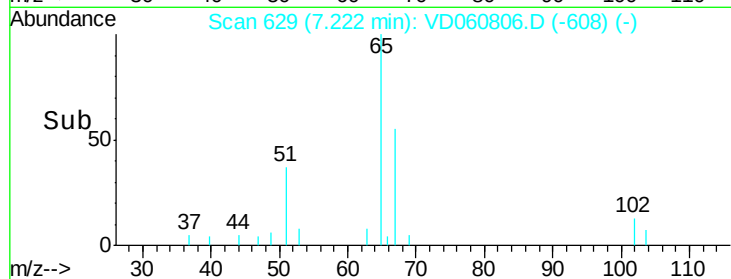
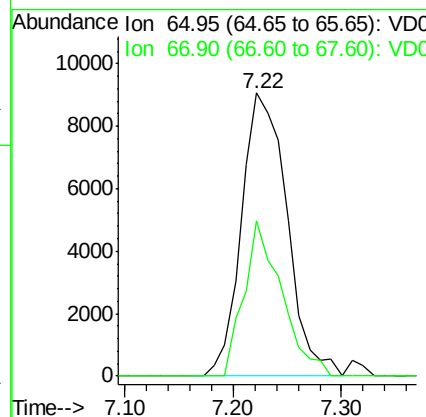
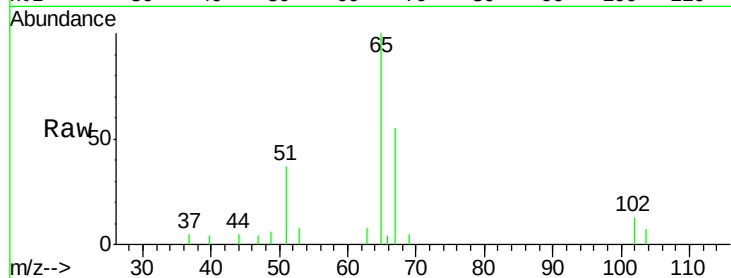




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.22 min Scan# 629
 Delta R.T. 0.01 min
 Lab File: VD060806.D
 Acq: 30 Jan 2019 15:28

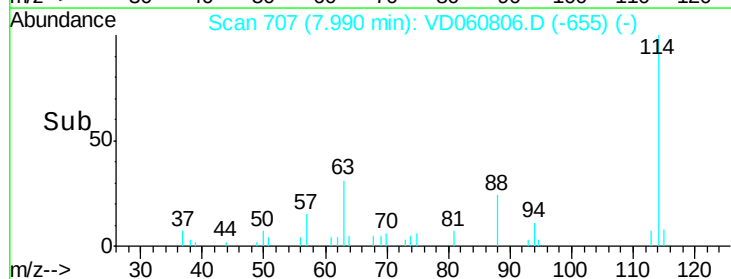
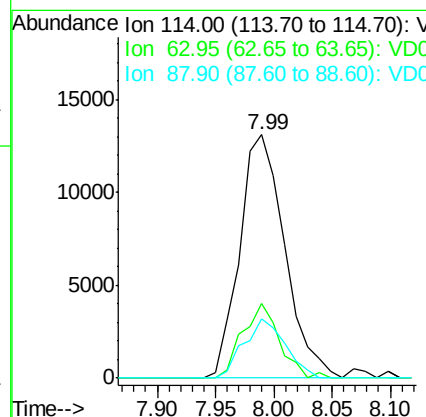
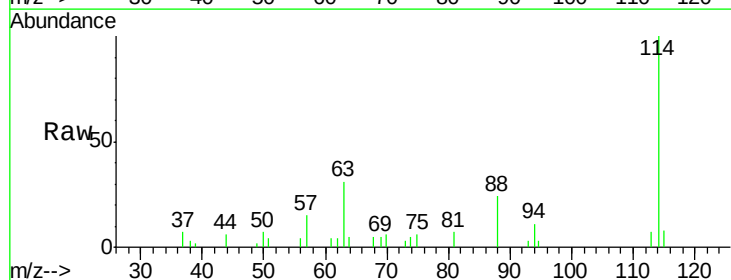
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-4RE

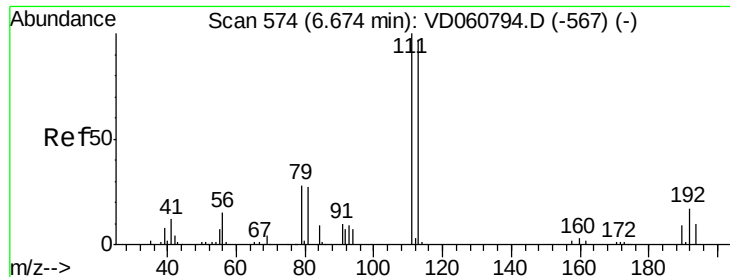
Tot Ion: 65 Resp: 26587
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.99 min Scan# 707
 Delta R.T. 0.02 min
 Lab File: VD060806.D
 Acq: 30 Jan 2019 15:28

Tgt Ion: 114 Resp: 35098
 Ion Ratio Lower Upper
 114 100
 63 30.8 0.0 46.6
 88 24.2 0.0 44.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.70 min Scan# 576

Delta R.T. 0.03 min

Lab File: VD060806.D

Acq: 30 Jan 2019 15:28

Instrument :

MSVOA_D

ClientSampleId :

TP-4RE

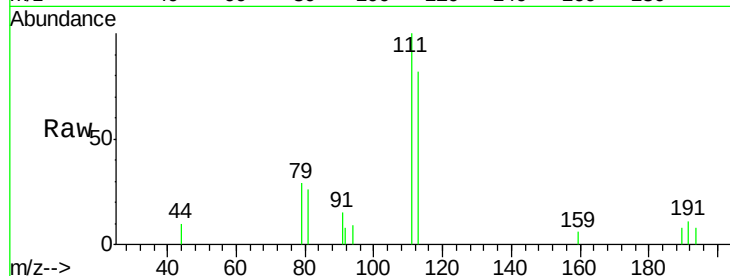
Tot Ion:113 Resp: 16376

Ion Ratio Lower Upper

113 100

111 121.7 82.3 123.5

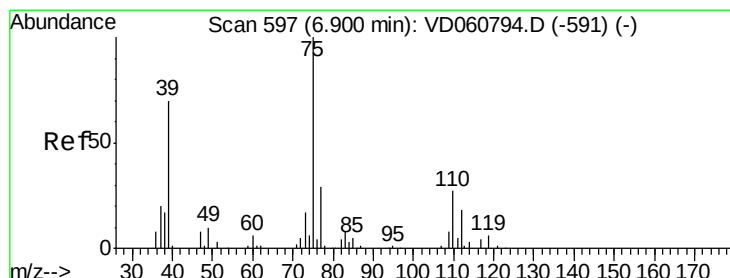
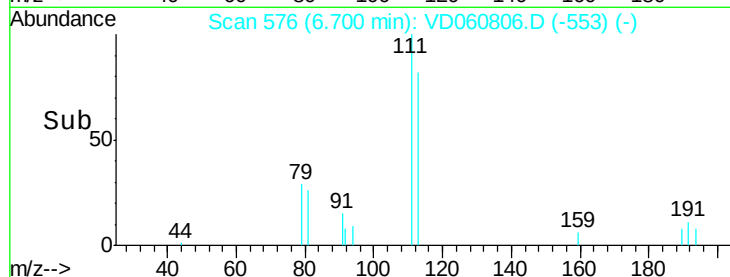
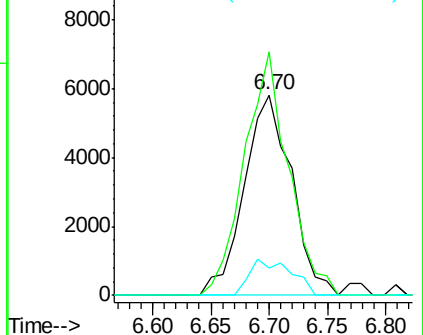
192 13.3 14.4 21.6#



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: 3.644 ug/l

RT: 6.80 min Scan# 586

Delta R.T. -0.10 min

Lab File: VD060806.D

Acq: 30 Jan 2019 15:28

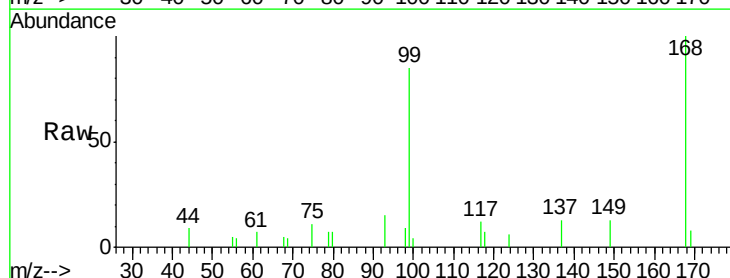
Tgt Ion: 75 Resp: 1527

Ion Ratio Lower Upper

75 100

110 0.0 13.5 40.4#

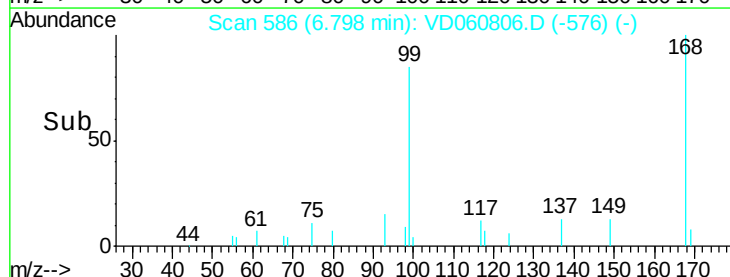
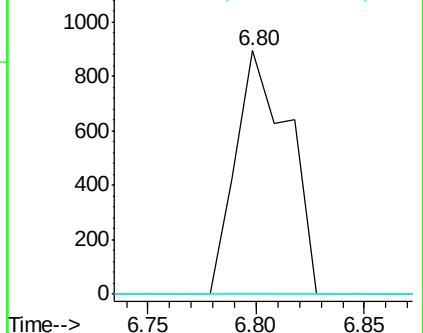
77 0.0 23.4 35.2#

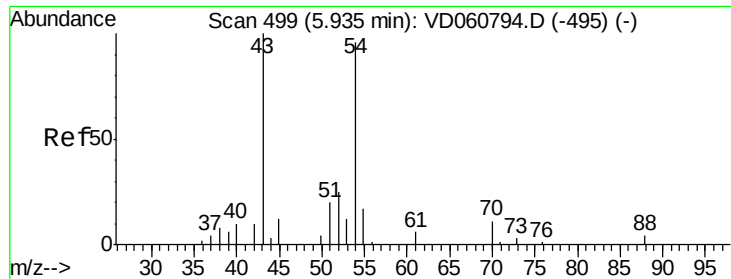


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

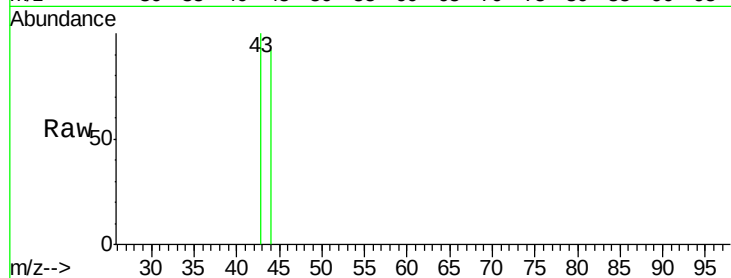




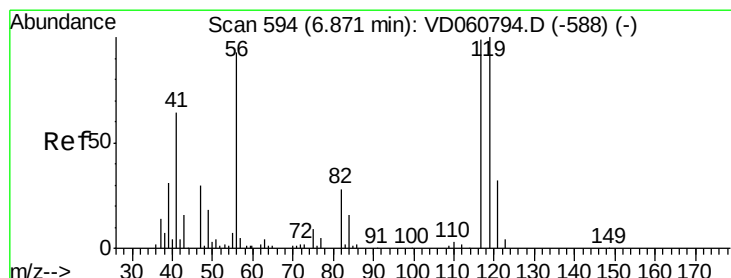
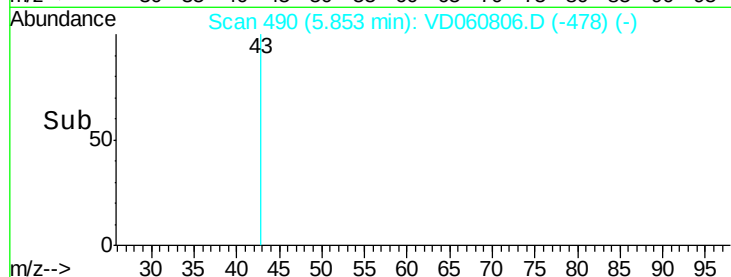
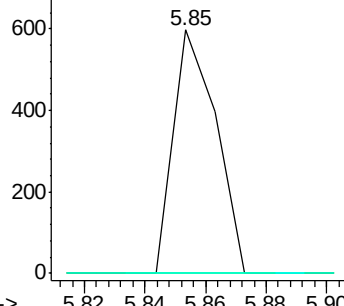
#37
Ethyl Acetate
Concen: 3.143 ug/l
RT: 5.85 min Scan# 490
Delta R.T. -0.08 min
Lab File: VD060806.D
Acq: 30 Jan 2019 15:28

Instrument :
MSVOA_D
ClientSampleId :
TP-4RE

Tot Ion: 43 Resp: 588
Ion Ratio Lower Upper
43 100
61 0.0 12.3 18.5#
70 0.0 7.4 11.0#

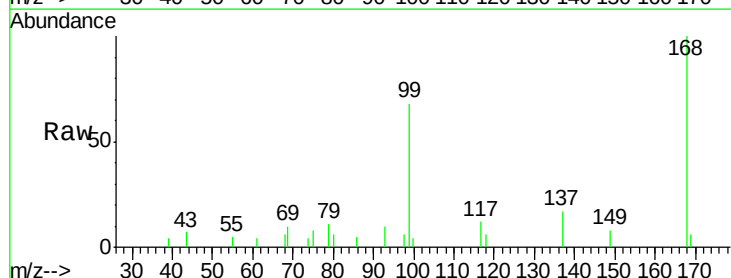


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

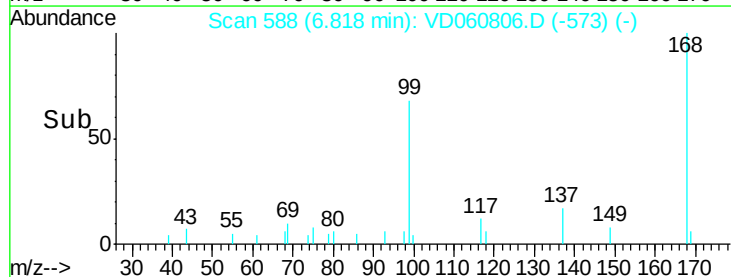
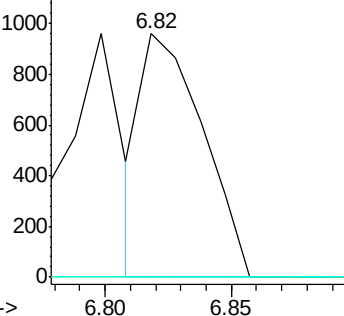


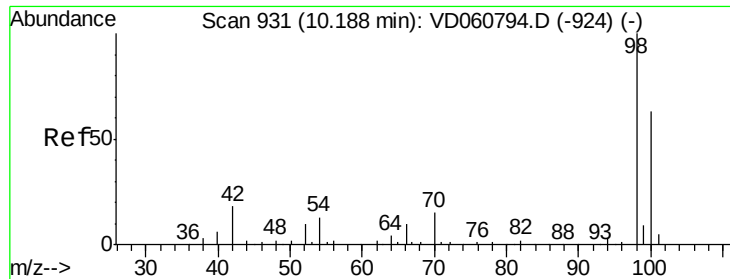
#38
Carbon Tetrachloride
Concen: 3.104 ug/l
RT: 6.82 min Scan# 588
Delta R.T. -0.05 min
Lab File: VD060806.D
Acq: 30 Jan 2019 15:28

Tgt Ion: 117 Resp: 1631
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

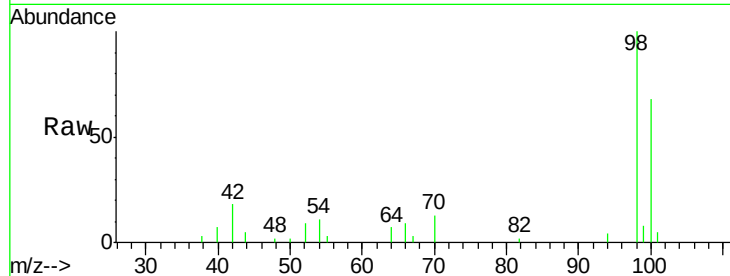




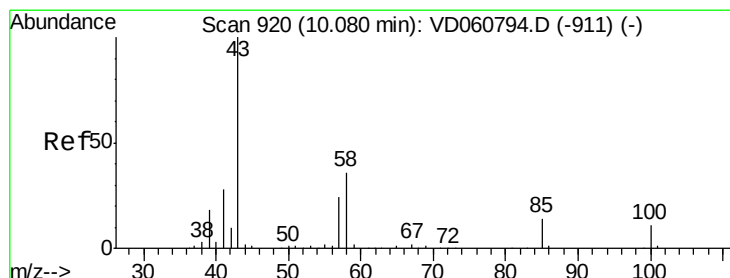
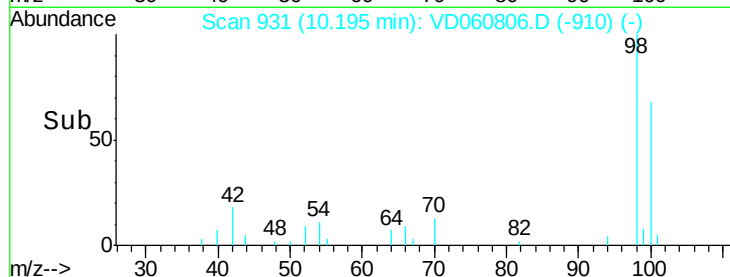
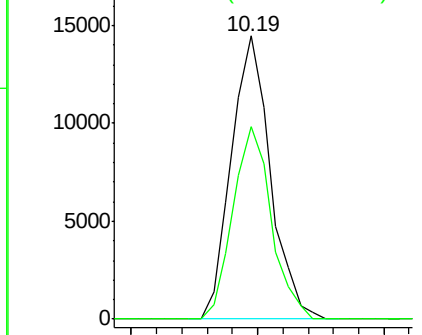
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.19 min Scan# 931
Delta R.T. 0.01 min
Lab File: VD060806.D
Acq: 30 Jan 2019 15:28

Instrument :
MSVOA_D
ClientSampleId :
TP-4RE

Tot Ion: 98 Resp: 30963
Ion Ratio Lower Upper
98 100
100 67.9 51.0 76.6

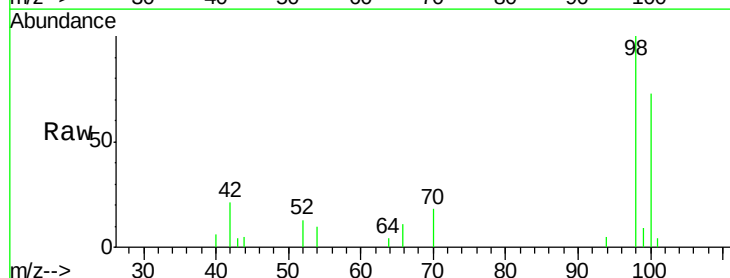


Abundance Ion 98.05 (97.75 to 98.75): VD060806.D (-910) (-)
Ion 100.05 (99.75 to 100.75): VD060806.D (-910) (-)

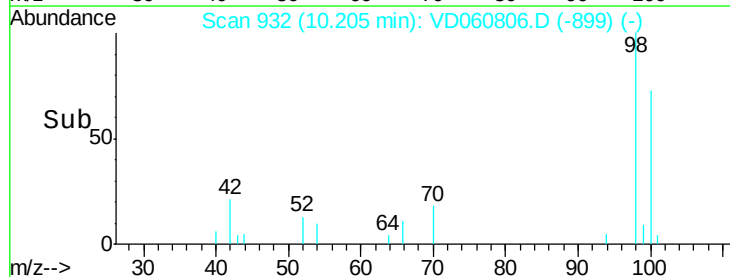
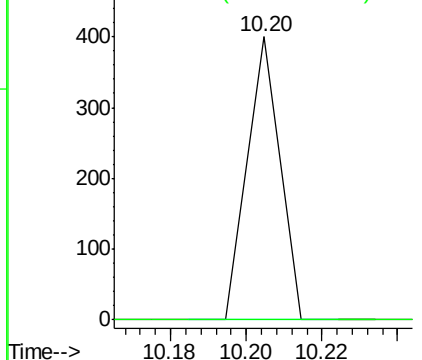


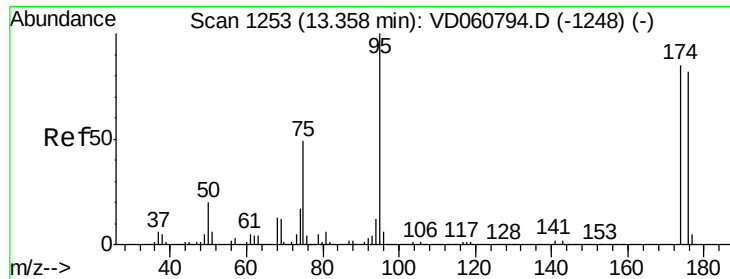
#51
4-Methyl-2-Pentanone
Concen: 1.494 ug/l
RT: 10.20 min Scan# 932
Delta R.T. 0.12 min
Lab File: VD060806.D
Acq: 30 Jan 2019 15:28

Tgt Ion: 43 Resp: 236
Ion Ratio Lower Upper
43 100
58 0.0 28.4 42.6#



Abundance Ion 42.95 (42.65 to 43.65): VD060806.D (-899) (-)
Ion 57.95 (57.65 to 58.65): VD060806.D (-899) (-)

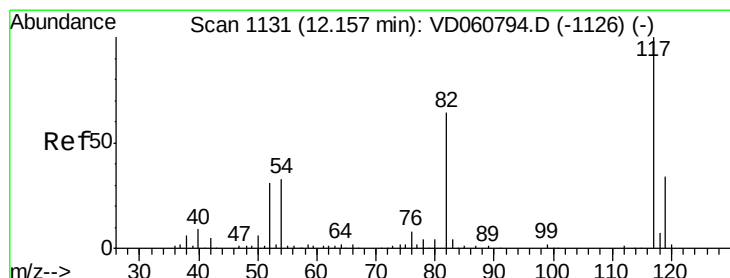
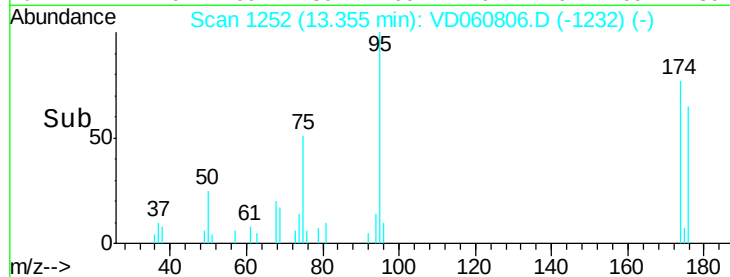
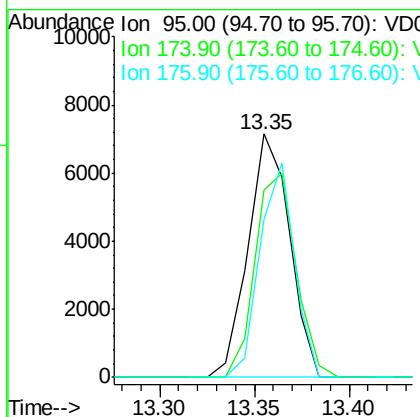
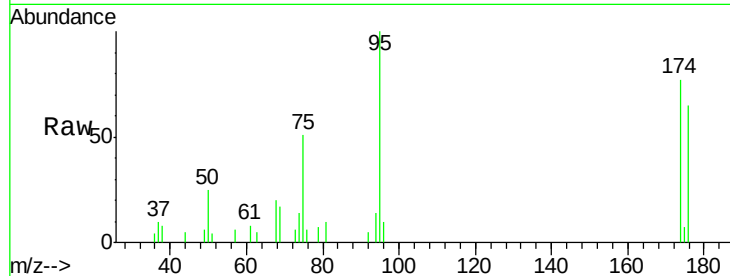




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.35 min Scan# 1252
Delta R.T. -0.00 min
Lab File: VD060806.D
Acq: 30 Jan 2019 15:28

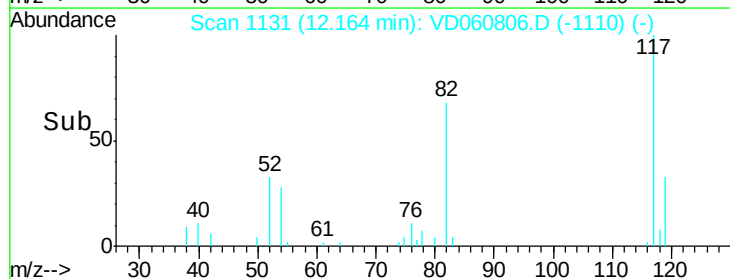
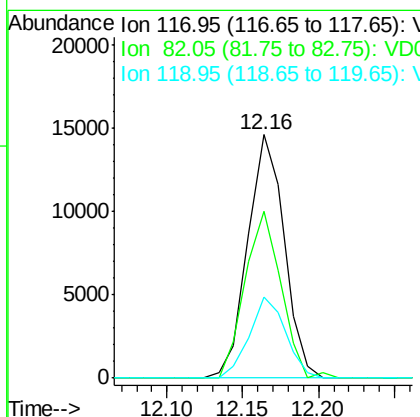
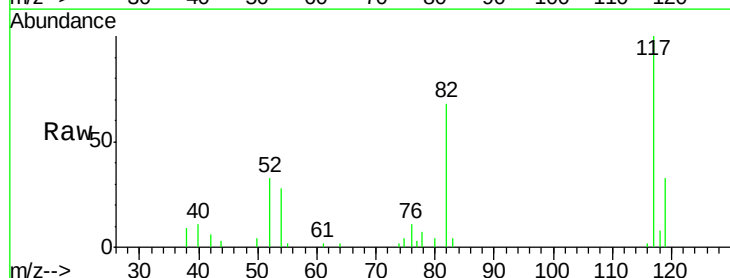
Instrument :
MSVOA_D
ClientSampleId :
TP-4RE

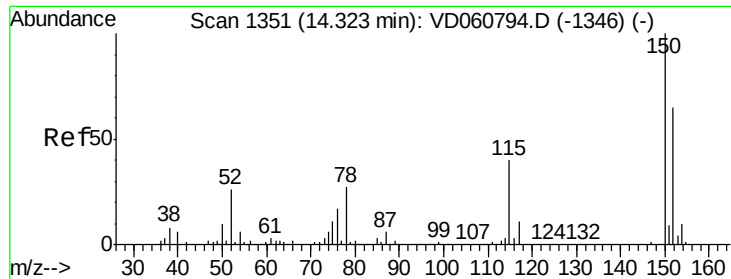
Tot Ion: 95 Resp: 10896
Ion Ratio Lower Upper
95 100
174 76.7 0.0 169.6
176 65.0 0.0 163.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.16 min Scan# 1131
Delta R.T. 0.01 min
Lab File: VD060806.D
Acq: 30 Jan 2019 15:28

Tgt Ion: 117 Resp: 24578
Ion Ratio Lower Upper
117 100
82 68.5 51.5 77.3
119 33.2 27.1 40.7

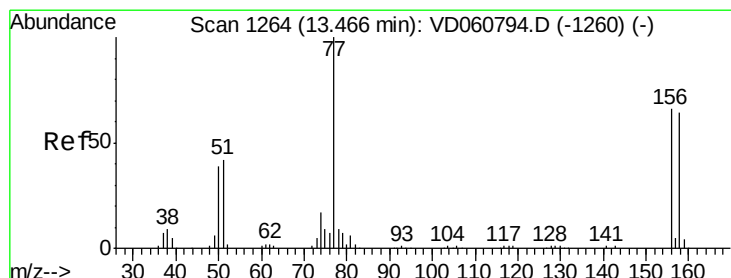
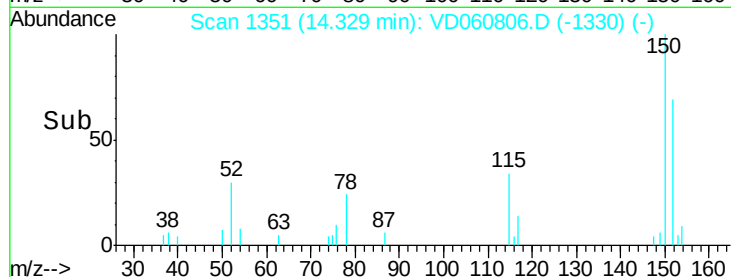
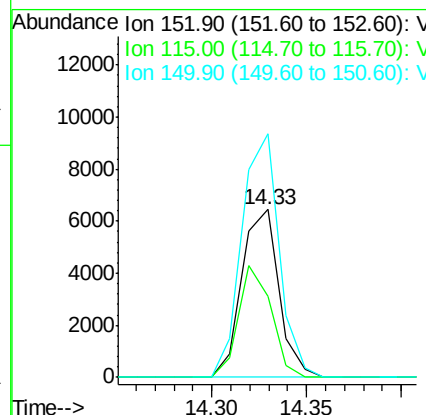
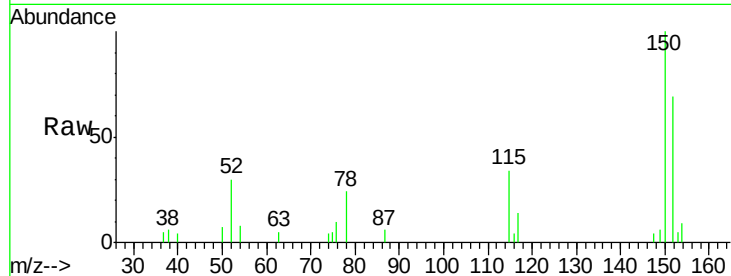




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.33 min Scan# 1351
 Delta R.T. 0.01 min
 Lab File: VD060806.D
 Acq: 30 Jan 2019 15:28

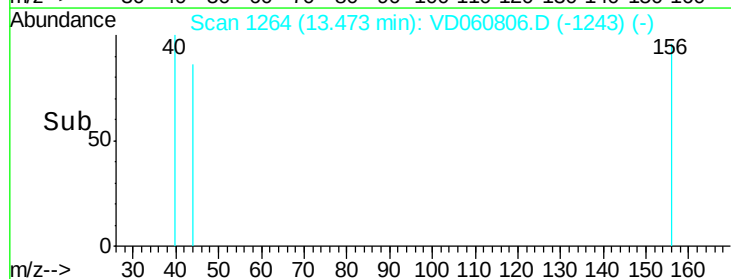
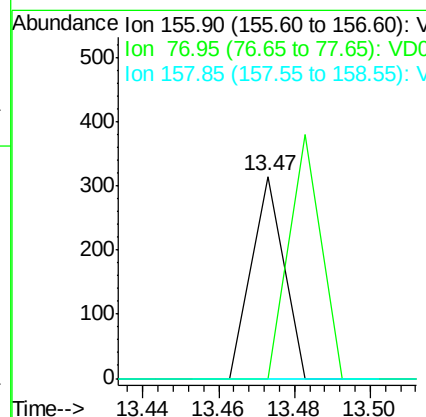
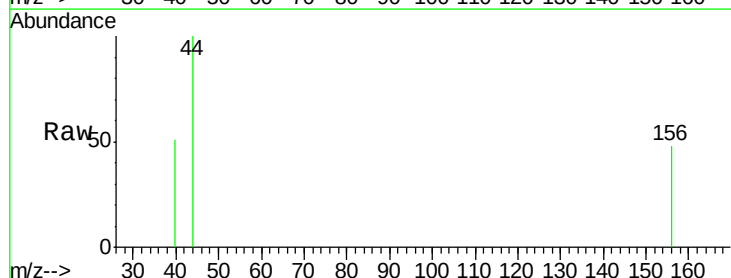
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-4RE

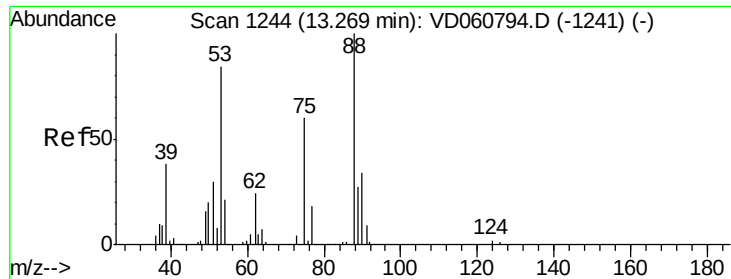
Tot Ion:152 Resp: 8715
 Ion Ratio Lower Upper
 152 100
 115 48.7 31.6 95.0
 150 145.3 0.0 317.6



#77
 Bromobenzene
 Concen: 1.036 ug/l
 RT: 13.47 min Scan# 1264
 Delta R.T. 0.01 min
 Lab File: VD060806.D
 Acq: 30 Jan 2019 15:28

Tgt Ion:156 Resp: 185
 Ion Ratio Lower Upper
 156 100
 77 0.0 76.0 228.0#
 158 0.0 48.4 145.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 134.119 ug/l

RT: 13.35 min Scan# 1252

Delta R.T. 0.09 min

Lab File: VD060806.D

Acq: 30 Jan 2019 15:28

Instrument :

MSVOA_D

ClientSampleID :

TP-4RE

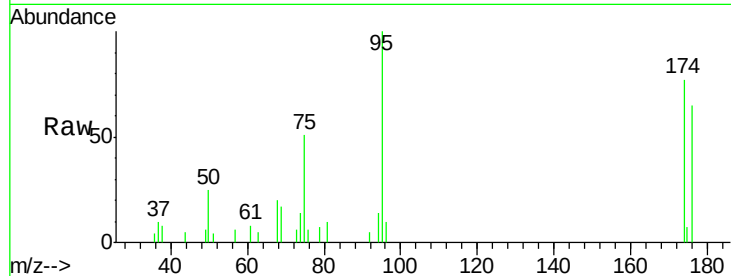
Tot Ion: 75 Resp: 5588

Ion Ratio Lower Upper

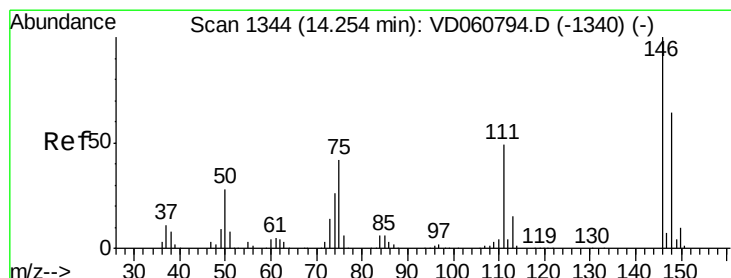
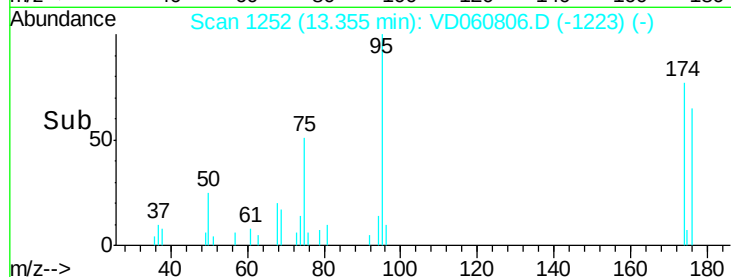
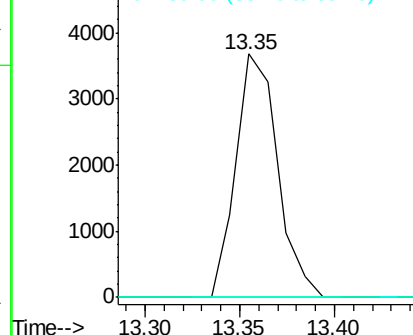
75 100

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



#87

1,3-Dichlorobenzene

Concen: 2.103 ug/l

RT: 14.26 min Scan# 1344

Delta R.T. 0.01 min

Lab File: VD060806.D

Acq: 30 Jan 2019 15:28

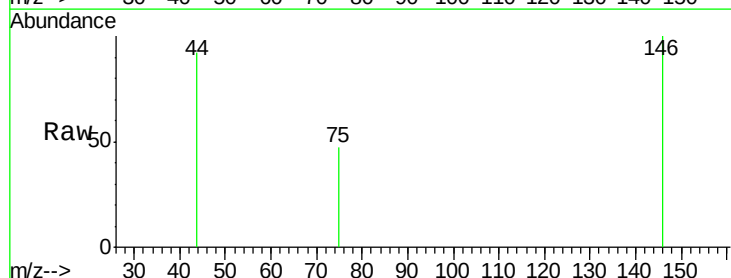
Tgt Ion: 146 Resp: 672

Ion Ratio Lower Upper

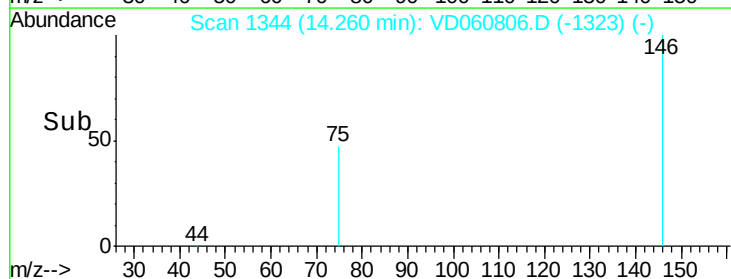
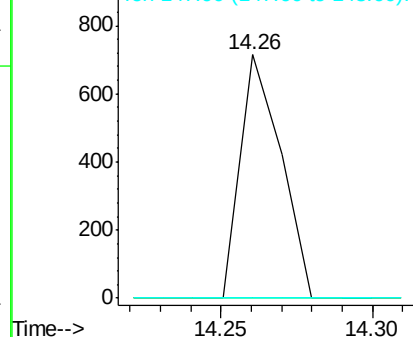
146 100

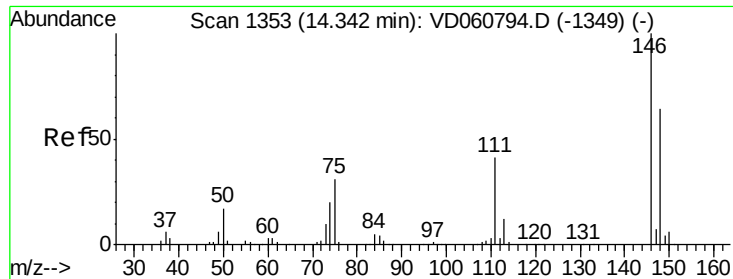
111 0.0 24.3 73.0#

148 0.0 32.1 96.5#



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





#88

1,4-Dichlorobenzene

Concen: 1.817 ug/l

RT: 14.34 min Scan# 1352

Delta R.T. -0.00 min

Lab File: VD060806.D

Acq: 30 Jan 2019 15:28

Instrument :

MSVOA_D

ClientSampleId :

TP-4RE

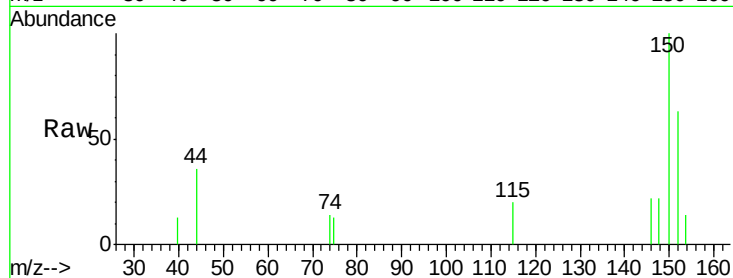
Tot Ion:146 Resp: 564

Ion Ratio Lower Upper

146 100

111 0.0 20.6 61.8#

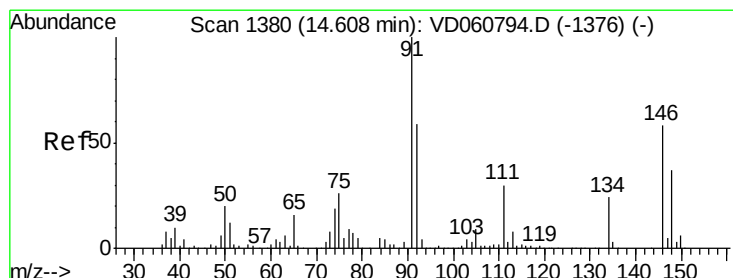
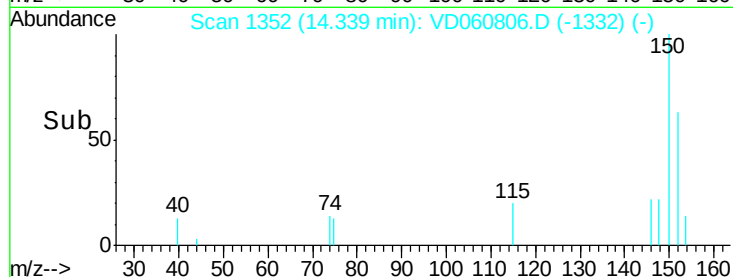
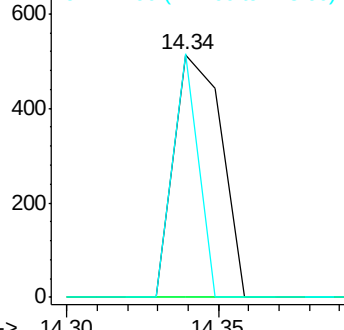
148 100.4 31.9 95.7#



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



#91

1,2-Dichlorobenzene

Concen: 1.022 ug/l

RT: 14.61 min Scan# 1380

Delta R.T. 0.01 min

Lab File: VD060806.D

Acq: 30 Jan 2019 15:28

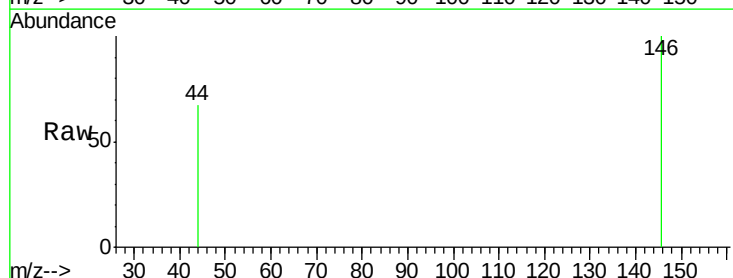
Tgt Ion:146 Resp: 271

Ion Ratio Lower Upper

146 100

111 0.0 25.6 76.8#

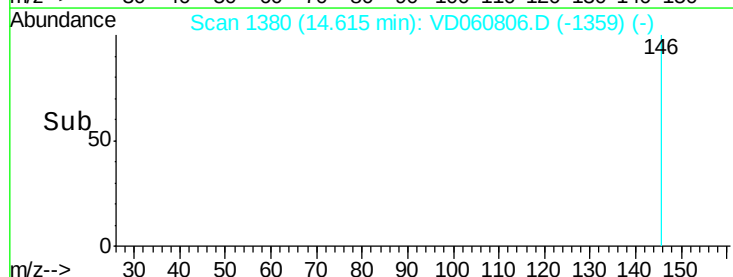
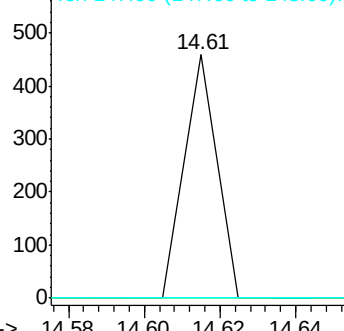
148 0.0 31.4 94.3#

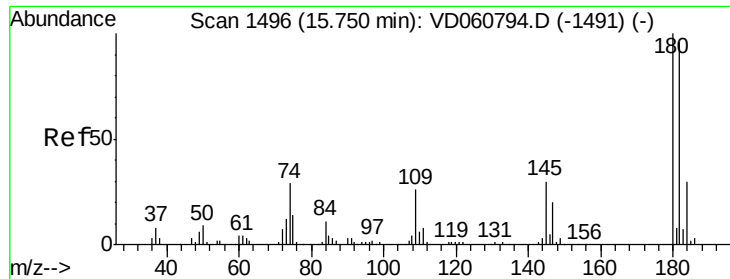


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

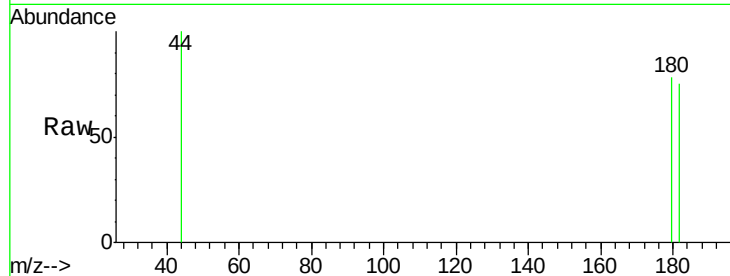




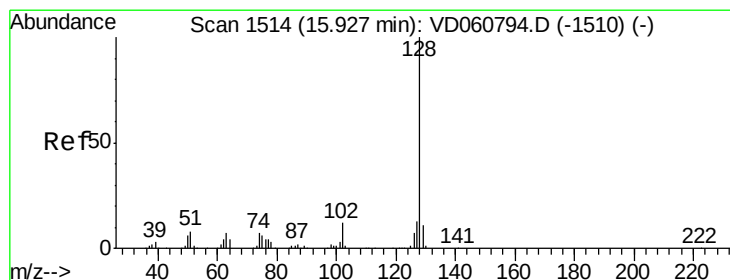
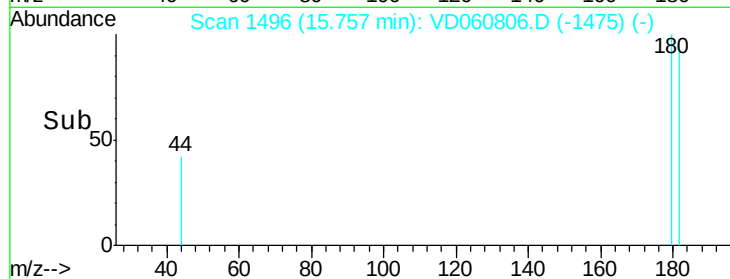
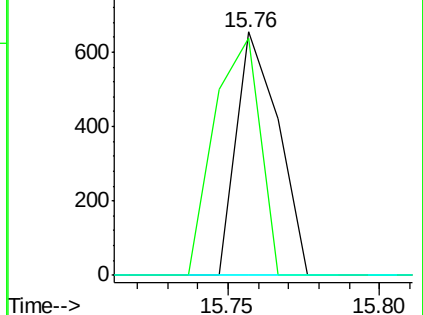
#93
 1,2,4-Trichlorobenzene
 Concen: 2.766 ug/l
 RT: 15.76 min Scan# 1496
 Delta R.T. 0.01 min
 Lab File: VD060806.D
 Acq: 30 Jan 2019 15:28

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-4RE

Tot Ion:180 Resp: 635
 Ion Ratio Lower Upper
 180 100
 182 97.3 47.9 143.7
 145 0.0 15.0 45.1#

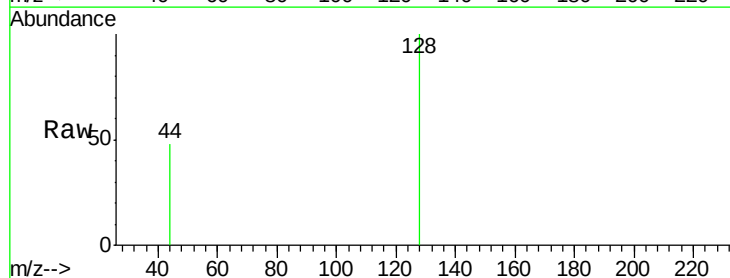


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

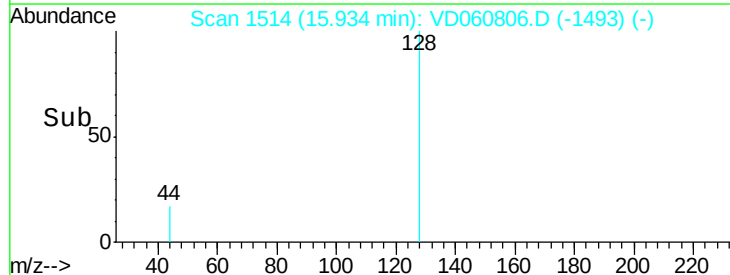
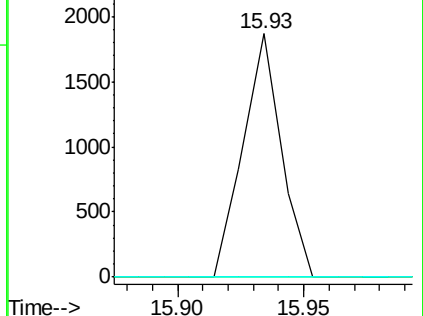


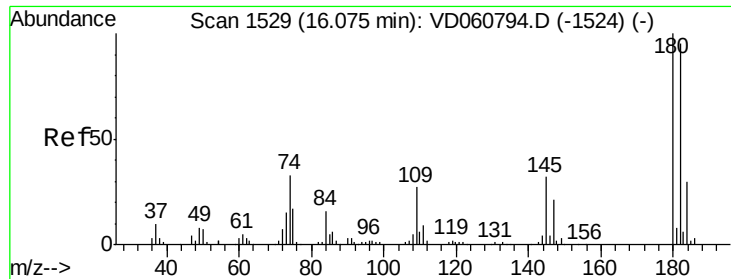
#95
 Naphthalene
 Concen: 5.593 ug/l
 RT: 15.93 min Scan# 1514
 Delta R.T. 0.01 min
 Lab File: VD060806.D
 Acq: 30 Jan 2019 15:28

Tgt Ion:128 Resp: 1973
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 0.0 8.7 13.1#



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





#96

1,2,3-Trichlorobenzene

Concen: 1.132 ug/l

RT: 16.08 min Scan# 1529

Delta R.T. 0.01 min

Lab File: VD060806.D

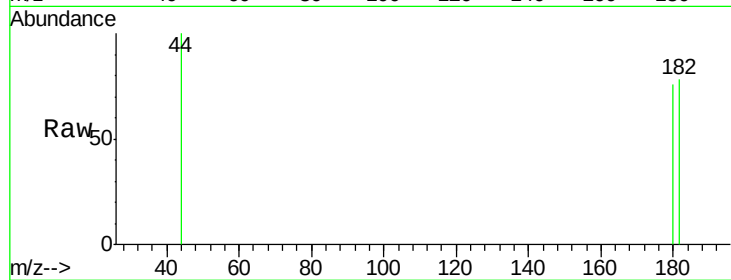
Acq: 30 Jan 2019 15:28

Instrument :

MSVOA_D

ClientSampleId :

TP-4RE



Tot Ion:180 Resp: 226

Ion Ratio Lower Upper

180 100

182 102.9 47.4 142.3

145 0.0 15.8 47.4#

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

