

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062118\
 Data File : VD058254.D
 Acq On : 21 Jun 2018 16:03
 Operator : VA/AP
 Sample : J3603-03
 Misc : 5.14g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 26KV-TP-2

Quant Time: Jun 22 06:15:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	24878	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.70	114	34573	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.70	117	31973	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	15400	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	23731	94.44	ug/l	0.02
Spiked Amount			Recovery	=	188.88%	
35) Dibromofluoromethane	5.56	113	16694	59.33	ug/l	0.01
Spiked Amount			Recovery	=	118.66%	
50) Toluene-d8	8.72	98	33071	48.58	ug/l	0.01
Spiked Amount			Recovery	=	97.16%	
62) 4-Bromofluorobenzene	11.94	95	13193	47.44	ug/l	0.01
Spiked Amount			Recovery	=	94.88%	

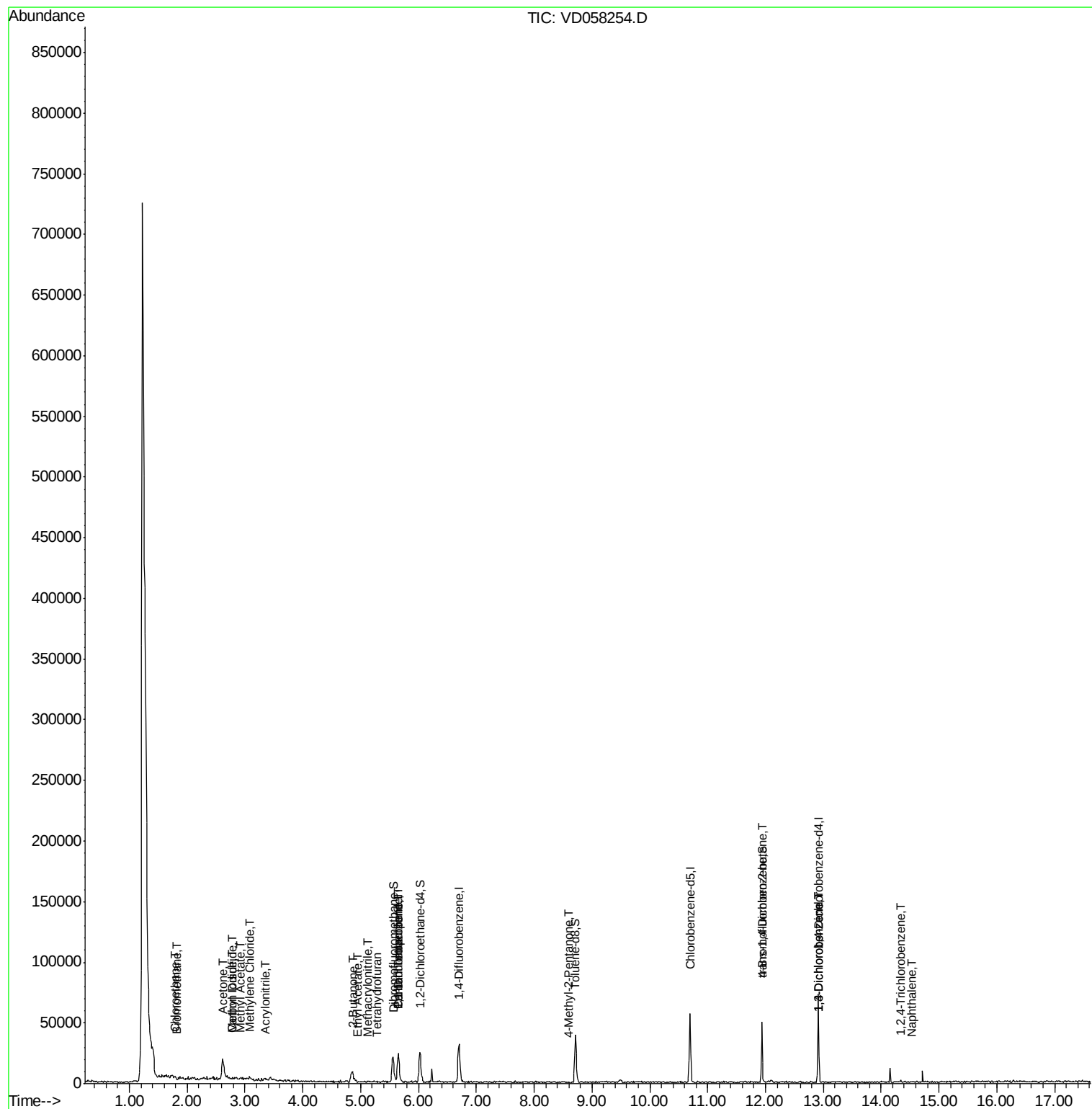
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.52	50	219	Below Cal	#	43
5) Bromomethane	1.83	94	225	4.128	ug/l #	3
6) Chloroethane	1.79	64	182	4.578	ug/l #	41
10) Methyl Iodide	2.78	142	183	1.416	ug/l #	28
15) Acrylonitrile	3.35	53	199	9.055	ug/l #	14
16) Acetone	2.62	43	35490	1032.726	ug/l #	86
17) Carbon Disulfide	2.79	76	369	1.269	ug/l #	76
18) Methyl Acetate	2.91	43	787	10.738	ug/l #	65
20) Methylene Chloride	3.08	84	908	5.920	ug/l #	52
25) 2-Butanone	4.86	43	8384	111.936	ug/l #	60
29) Tetrahydrofuran	5.27	42	191	4.791	ug/l #	37
36) 1,1-Dichloropropene	5.64	75	1738	5.082	ug/l #	43
37) Ethyl Acetate	4.95	43	436	2.237	ug/l #	72
38) Carbon Tetrachloride	5.66	117	1077	3.169	ug/l #	11
41) Methacrylonitrile	5.12	41	194	2.062	ug/l #	30
51) 4-Methyl-2-Pentanone	8.60	43	189	1.115	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.94	75	6648	121.230	ug/l #	1
87) 1,3-Dichlorobenzene	12.93	146	559	1.166	ug/l #	25
88) 1,4-Dichlorobenzene	12.93	146	559	1.194	ug/l #	25
93) 1,2,4-Trichlorobenzene	14.34	180	448	1.148	ug/l #	81
95) Naphthalene	14.52	128	1412	2.747	ug/l #	70

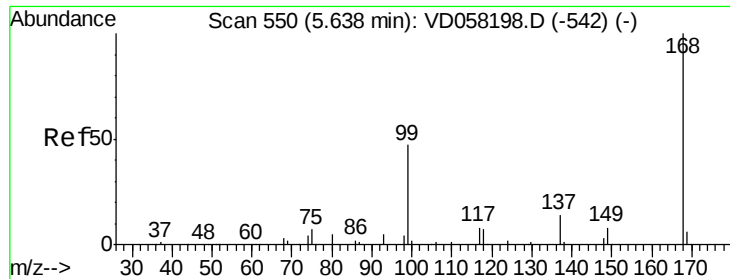
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD058254.D

Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

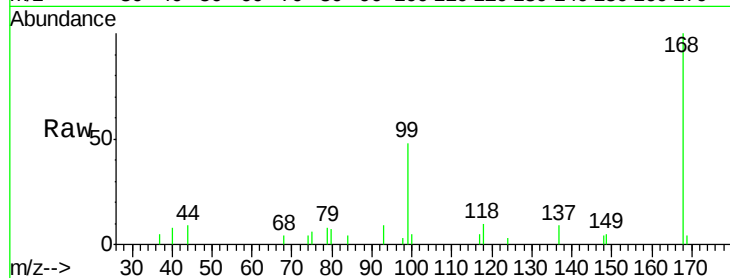
26KV-TP-2

Tot Ion:168 Resp: 24878

Ion Ratio Lower Upper

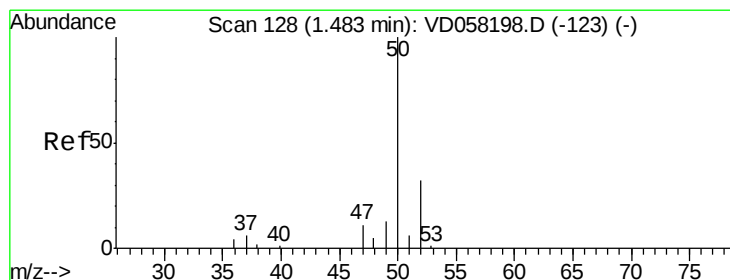
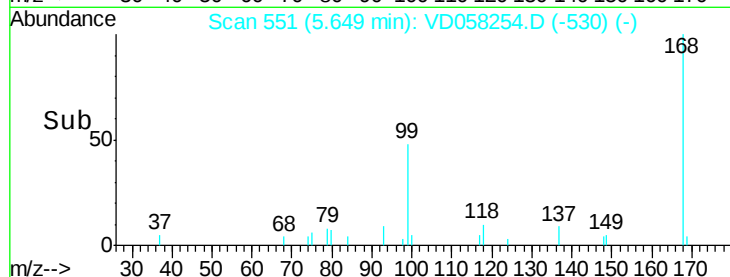
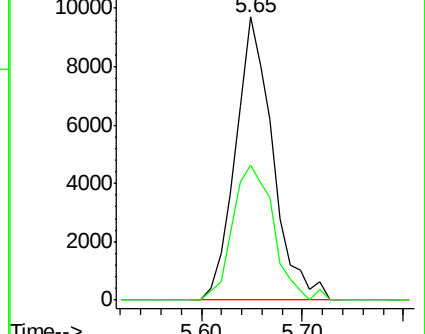
168 100

99 47.9 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: Below Cal

RT: 1.52 min Scan# 132

Delta R.T. 0.04 min

Lab File: VD058254.D

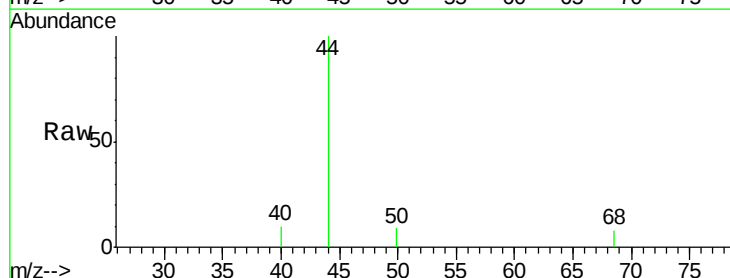
Acq: 21 Jun 2018 16:03

Tgt Ion: 50 Resp: 219

Ion Ratio Lower Upper

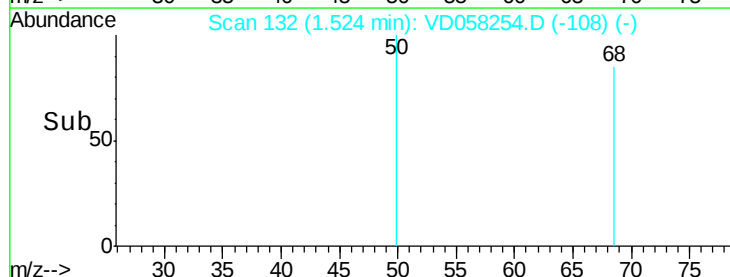
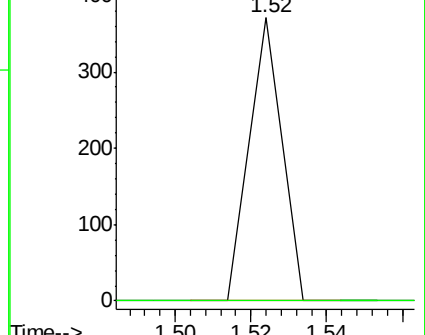
50 100

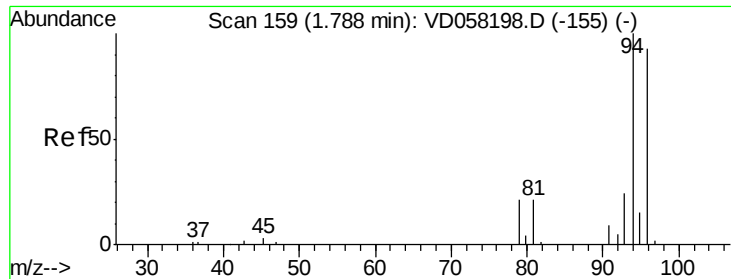
52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 4.128 ug/l

RT: 1.83 min Scan# 163

Delta R.T. 0.04 min

Lab File: VD058254.D

Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

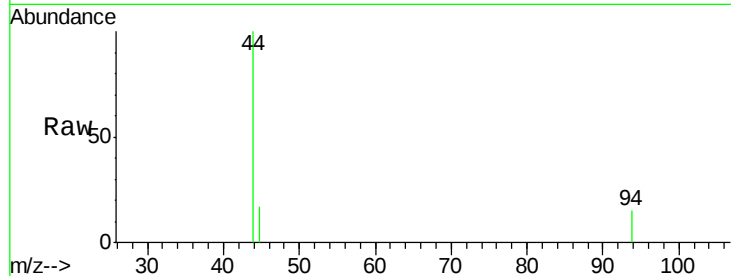
26KV-TP-2

Tot Ion: 94 Resp: 225

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

1.83

400

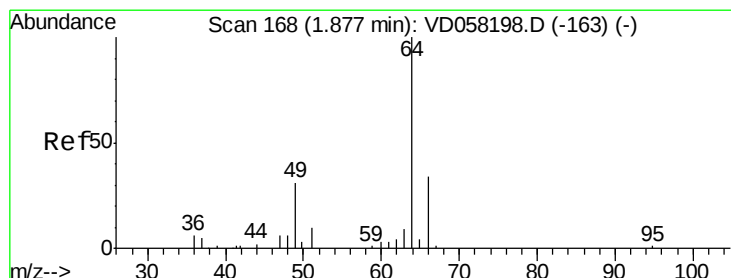
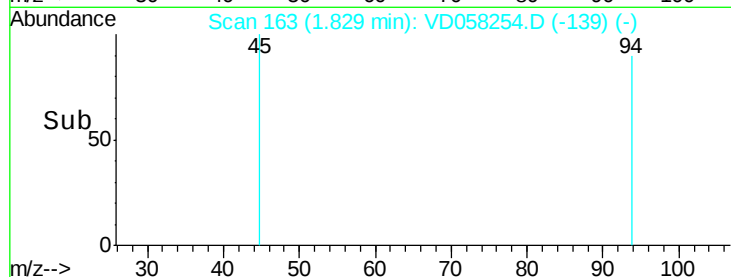
300

200

100

0

Time-->



#6

Chloroethane

Concen: 4.578 ug/l

RT: 1.79 min Scan# 159

Delta R.T. -0.09 min

Lab File: VD058254.D

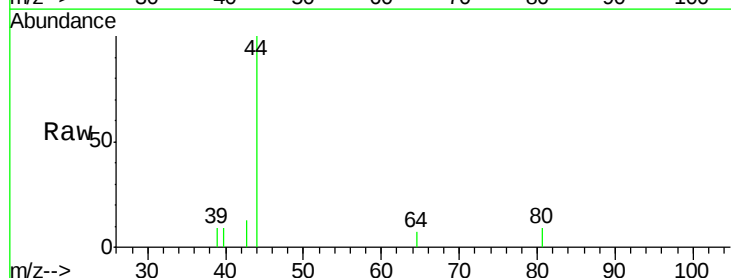
Acq: 21 Jun 2018 16:03

Tgt Ion: 64 Resp: 182

Ion Ratio Lower Upper

64 100

66 0.0 27.3 40.9#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.79

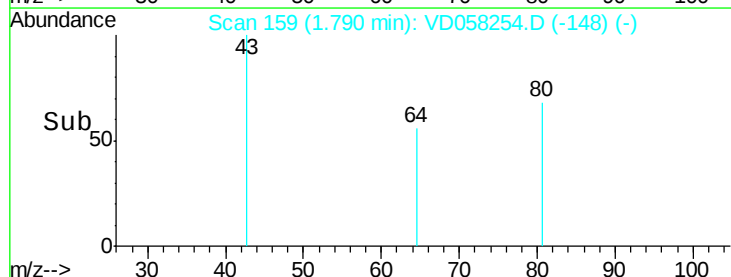
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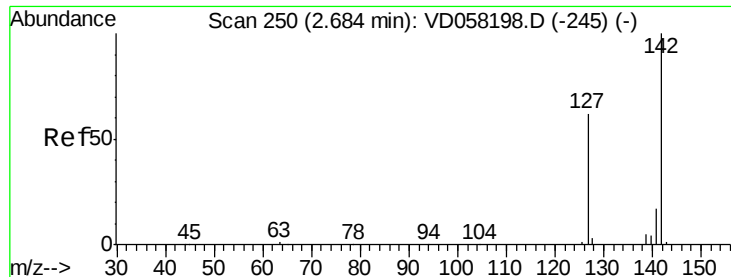
200

100

0

Time-->

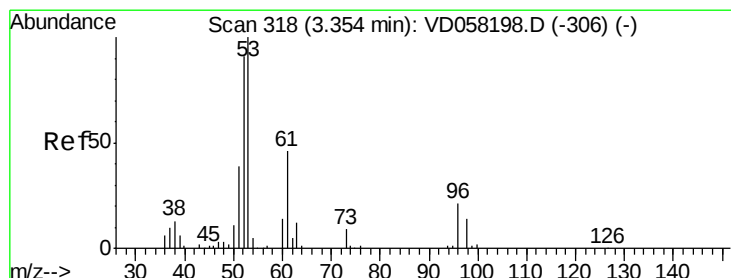
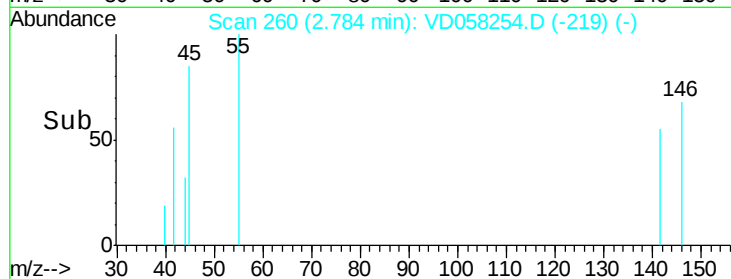
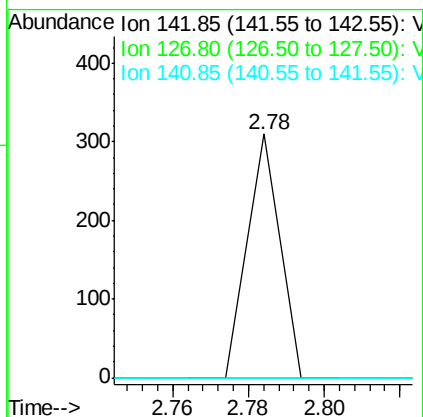
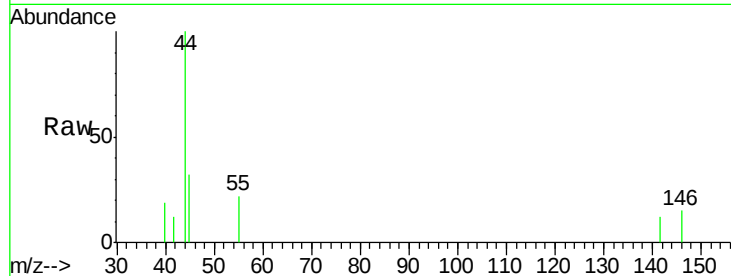




#10
Methvl Iodide
Concen: 1.416 ug/l
RT: 2.78 min Scan# 260
Delta R.T. 0.10 min
Lab File: VD058254.D
Acq: 21 Jun 2018 16:03

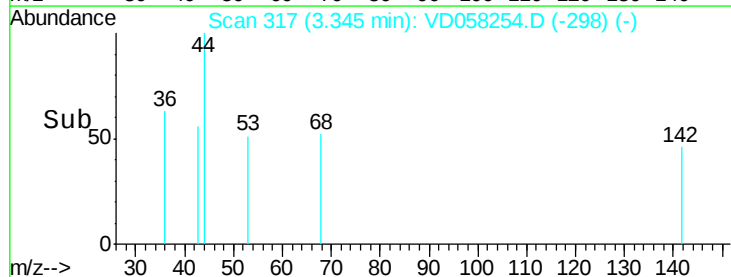
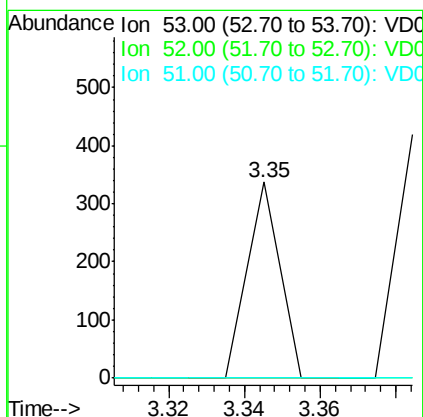
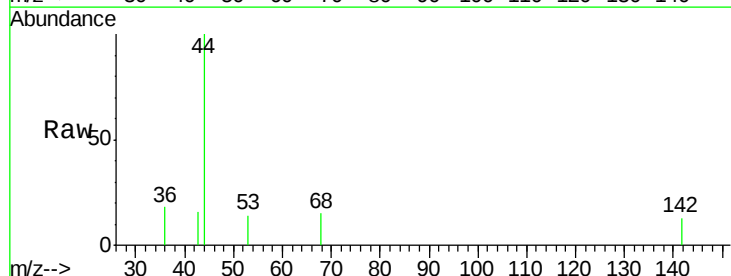
Instrument :
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26KV-TP-2

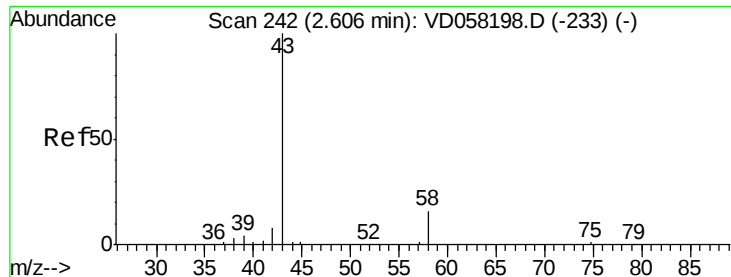
Tot Ion:142 Resp: 183
Ion Ratio Lower Upper
142 100
127 0.0 49.4 74.0#
141 0.0 13.5 20.3#



#15
Acrylonitrile
Concen: 9.055 ug/l
RT: 3.35 min Scan# 317
Delta R.T. -0.01 min
Lab File: VD058254.D
Acq: 21 Jun 2018 16:03

Tgt Ion: 53 Resp: 199
Ion Ratio Lower Upper
53 100
52 0.0 72.6 108.8#
51 0.0 32.2 48.4#





#16

Acetone

Concen: 1032.726 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD058254.D

Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

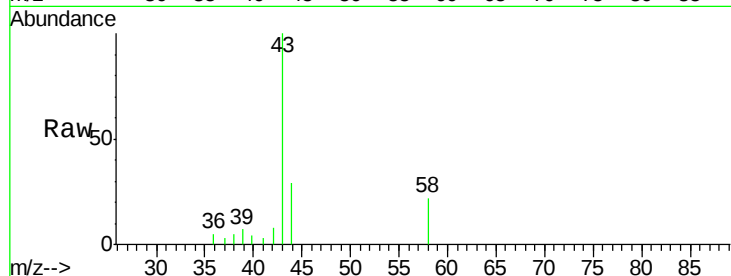
26KV-TP-2

Tot Ion: 43 Resp: 35490

Ion Ratio Lower Upper

43 100

58 21.8 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

12000

10000

8000

6000

4000

2000

0

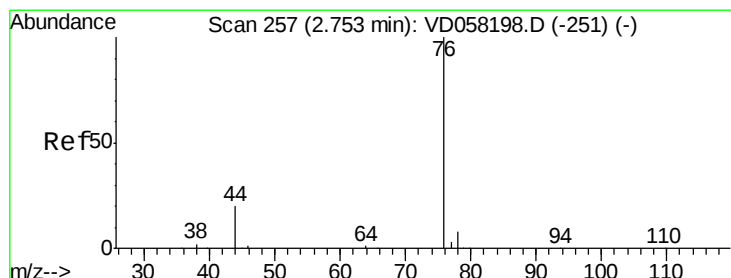
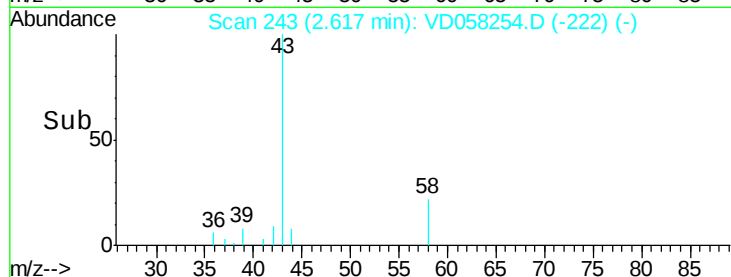
2.50

2.60

2.70

2.80

Time-->



#17

Carbon Disulfide

Concen: 1.269 ug/l

RT: 2.79 min Scan# 261

Delta R.T. 0.04 min

Lab File: VD058254.D

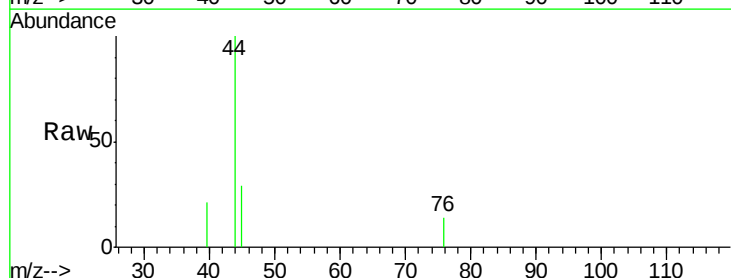
Acq: 21 Jun 2018 16:03

Tgt Ion: 76 Resp: 369

Ion Ratio Lower Upper

76 100

78 0.0 6.8 10.2#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

300

200

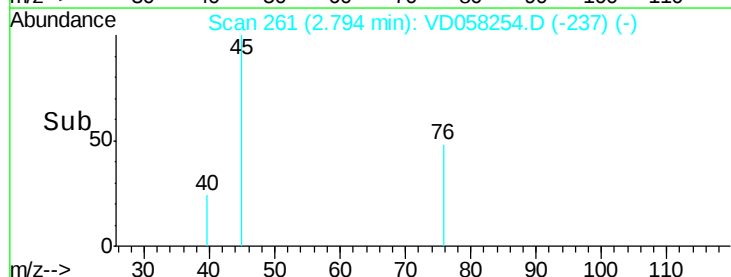
100

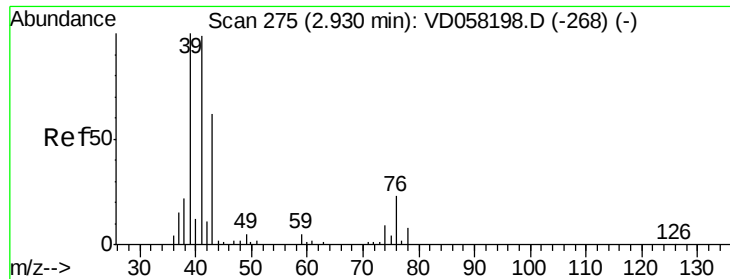
0

2.75

2.80

Time-->

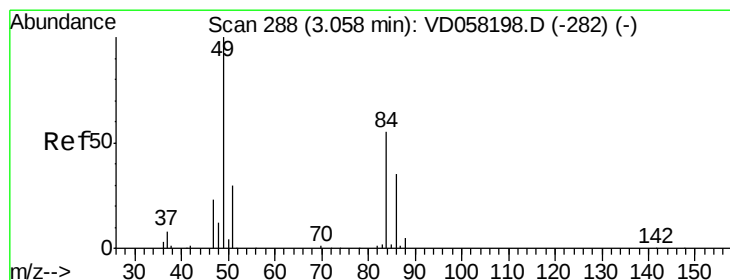
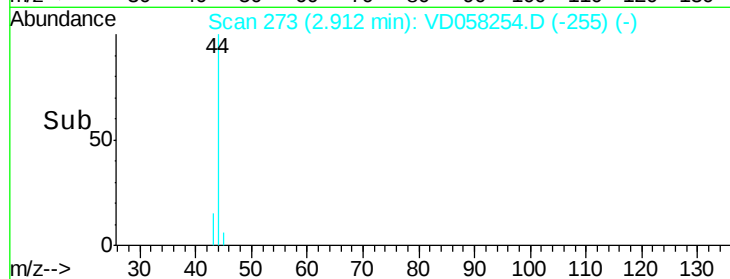
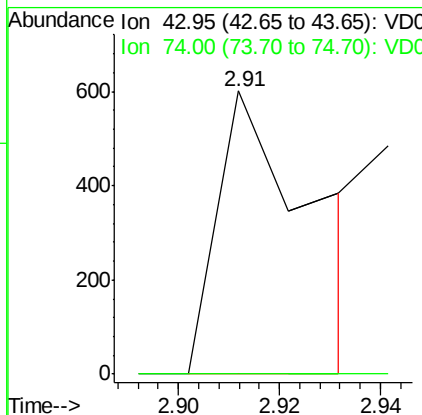
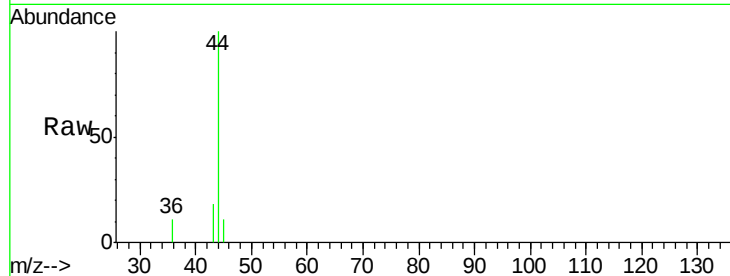




#18
Methvl Acetate
Concen: 10.738 ug/l
RT: 2.91 min Scan# 273
Delta R.T. -0.02 min
Lab File: VD058254.D
Acq: 21 Jun 2018 16:03

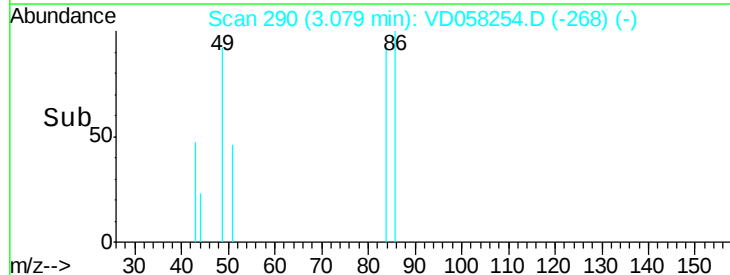
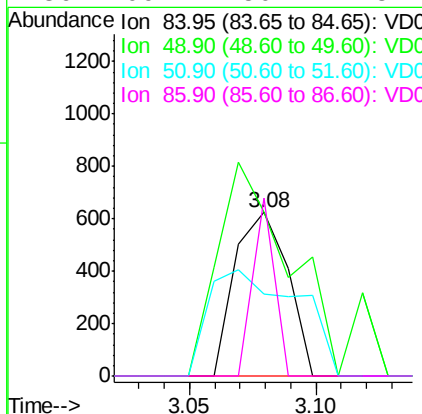
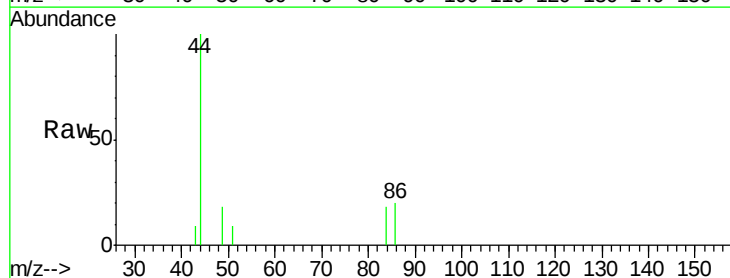
Instrument :
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26KV-TP-2

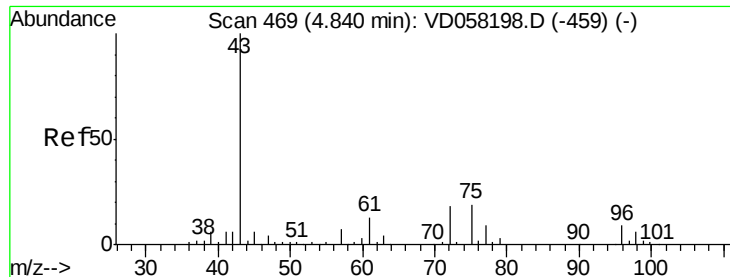
Tot Ion: 43 Resp: 787
Ion Ratio Lower Upper
43 100
74 0.0 11.7 17.5#



#20
Methylene Chloride
Concen: 5.920 ug/l
RT: 3.08 min Scan# 290
Delta R.T. 0.02 min
Lab File: VD058254.D
Acq: 21 Jun 2018 16:03

Tgt Ion: 84 Resp: 908
Ion Ratio Lower Upper
84 100
49 100.5 145.0 217.6#
51 50.5 42.9 64.3
86 109.1 50.1 75.1#





#25

2-Butanone

Concen: 111.936 ug/l

RT: 4.86 min Scan# 471

Delta R.T. 0.02 min

Lab File: VD058254.D

Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

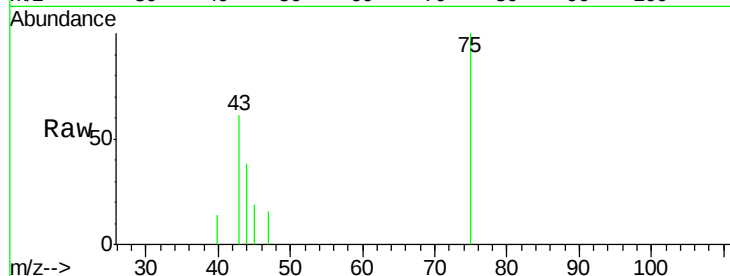
26KV-TP-2

Tot Ion: 43 Resp: 8384

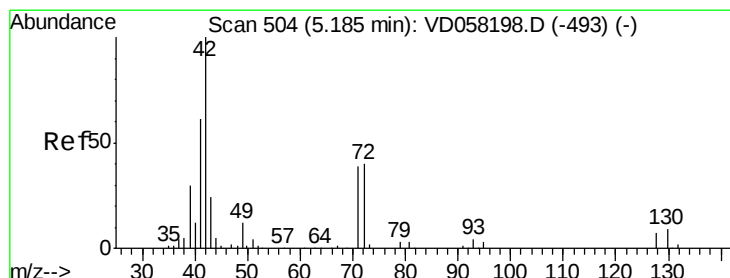
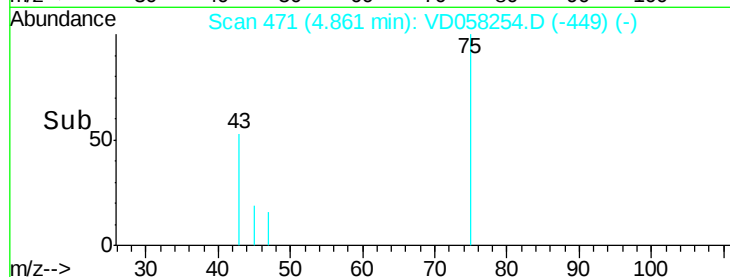
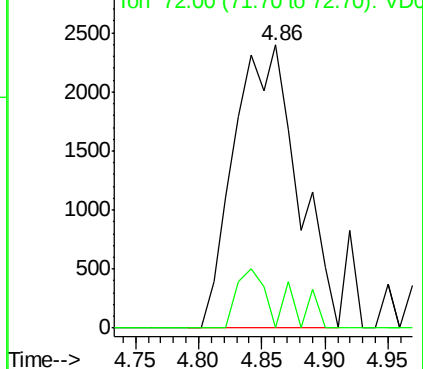
Ion Ratio Lower Upper

43 100

72 0.0 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC



#29

Tetrahydrofuran

Concen: 4.791 ug/l

RT: 5.27 min Scan# 513

Delta R.T. 0.09 min

Lab File: VD058254.D

Acq: 21 Jun 2018 16:03

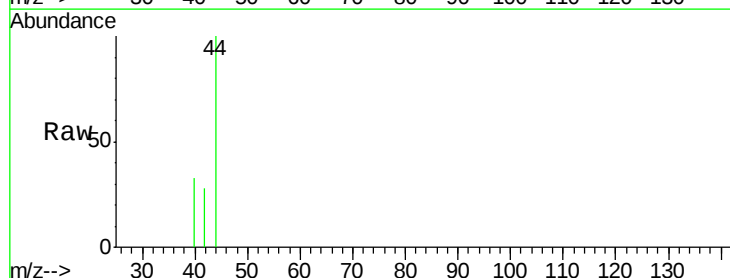
Tgt Ion: 42 Resp: 191

Ion Ratio Lower Upper

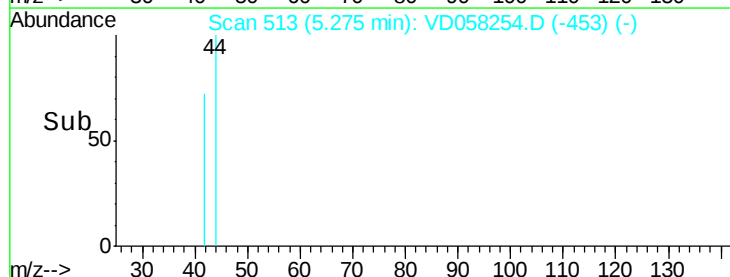
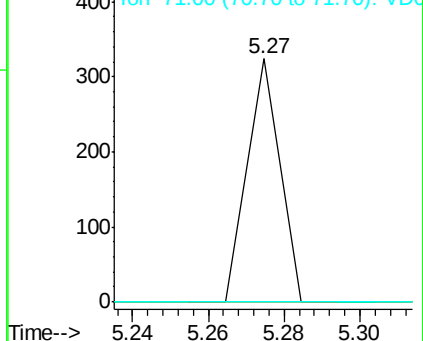
42 100

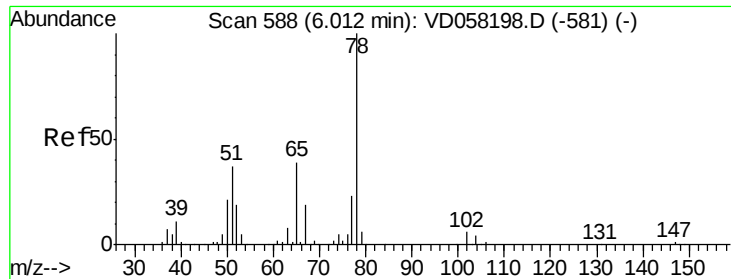
72 0.0 30.2 45.2#

71 0.0 30.1 45.1#



Abundance Ion 42.00 (41.70 to 42.70): VDC

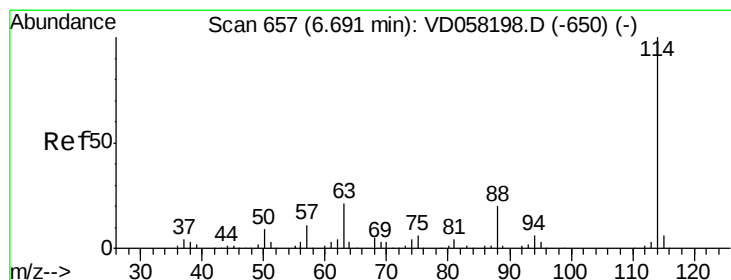
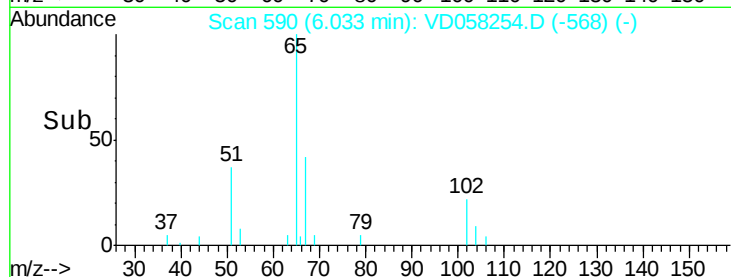
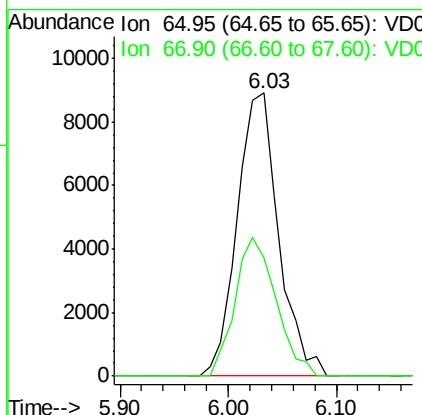
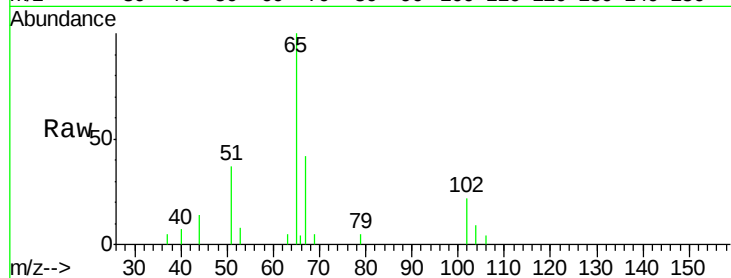




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.03 min Scan# 590
 Delta R.T. 0.02 min
 Lab File: VD058254.D
 Acq: 21 Jun 2018 16:03

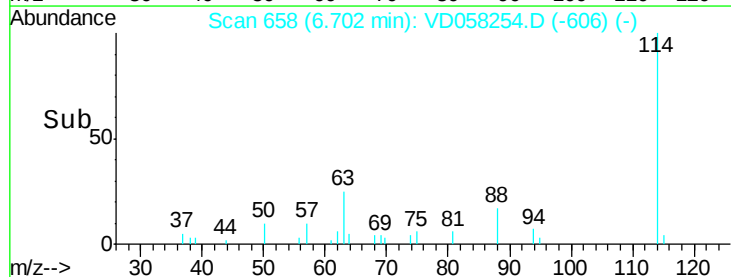
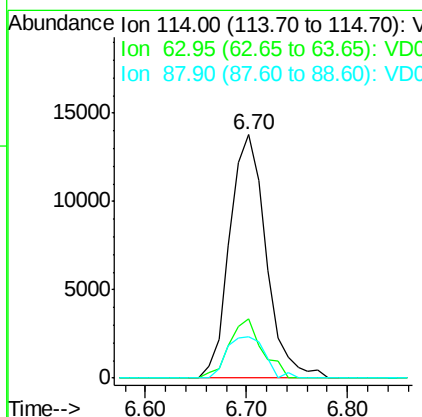
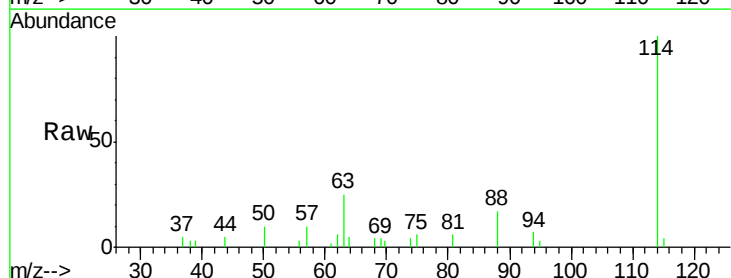
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 MSVOA_D
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 26KV-TP-2

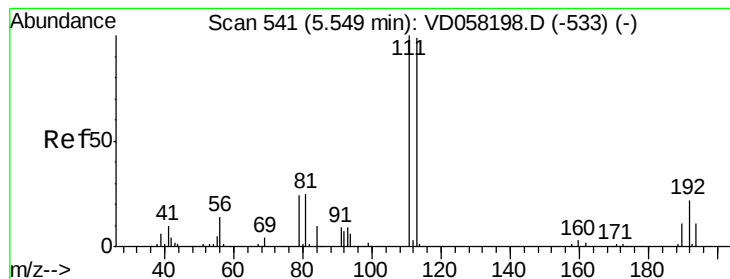
Tot Ion: 65 Resp: 23731
 Ion Ratio Lower Upper
 65 100
 67 41.9 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.70 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VD058254.D
 Acq: 21 Jun 2018 16:03

Tgt Ion: 114 Resp: 34573
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 42.6
 88 16.9 0.0 40.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.56 min Scan# 542

Delta R.T. 0.01 min

Lab File: VD058254.D

Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-2

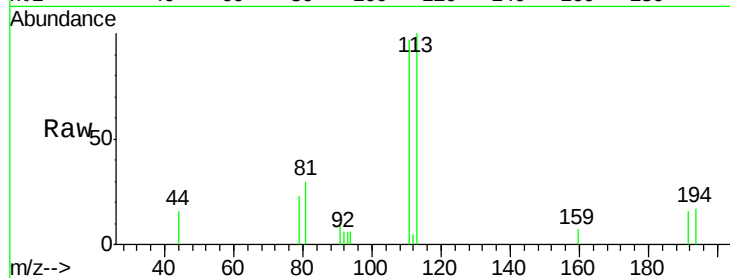
Tot Ion:113 Resp: 16694

Ion Ratio Lower Upper

113 100

111 97.3 80.6 121.0

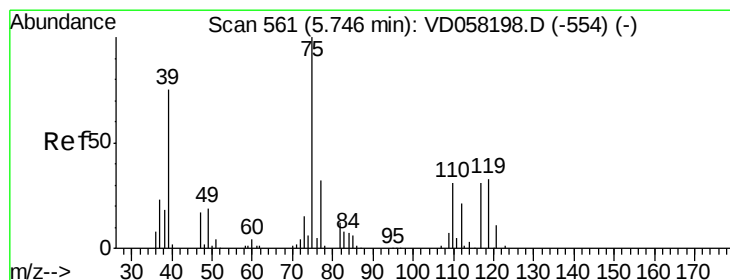
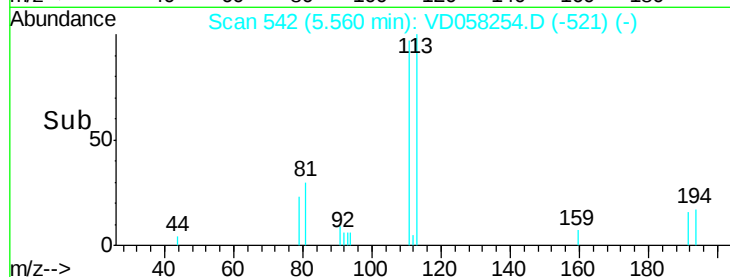
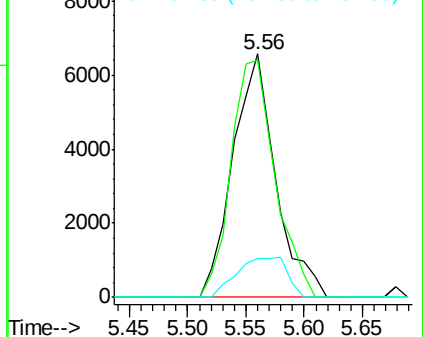
192 16.0 17.8 26.6#



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: 5.082 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.11 min

Lab File: VD058254.D

Acq: 21 Jun 2018 16:03

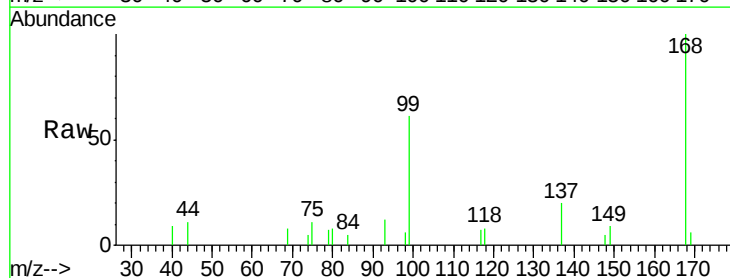
Tgt Ion: 75 Resp: 1738

Ion Ratio Lower Upper

75 100

110 0.0 15.4 46.4#

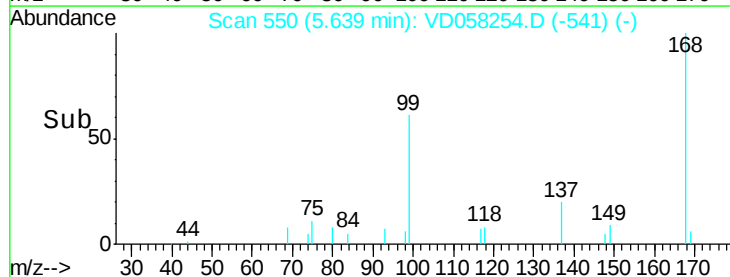
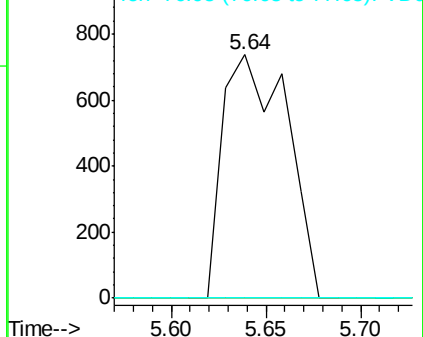
77 0.0 25.4 38.2#

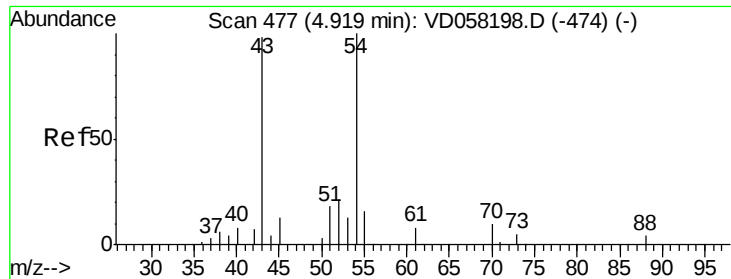


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 2.237 ug/l

RT: 4.95 min Scan# 480

Delta R.T. 0.03 min

Lab File: VD058254.D

Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_D

ClientSampled :

26KV-TP-2

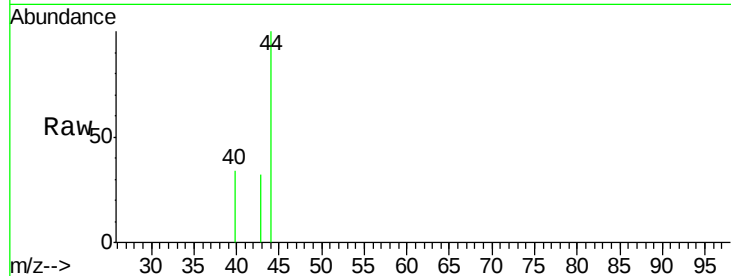
Tot Ion: 43 Resp: 436

Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

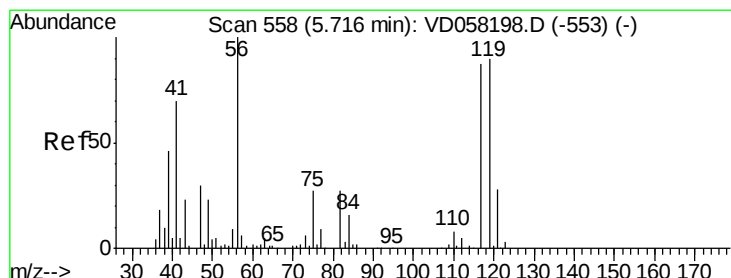
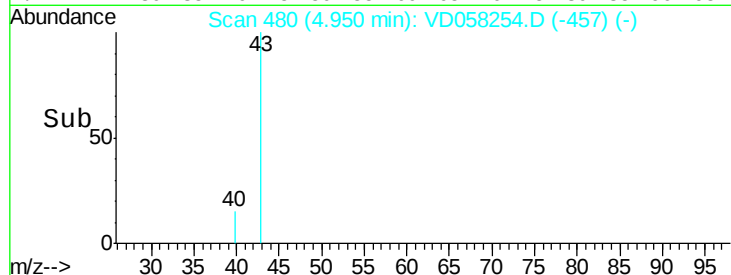
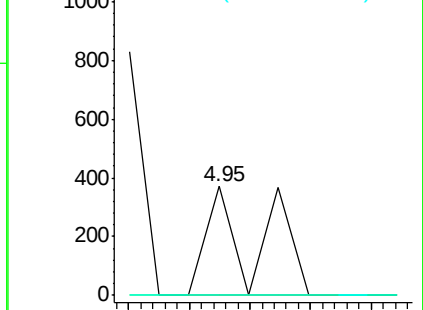
70 0.0 5.7 8.5#



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: 3.169 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.06 min

Lab File: VD058254.D

Acq: 21 Jun 2018 16:03

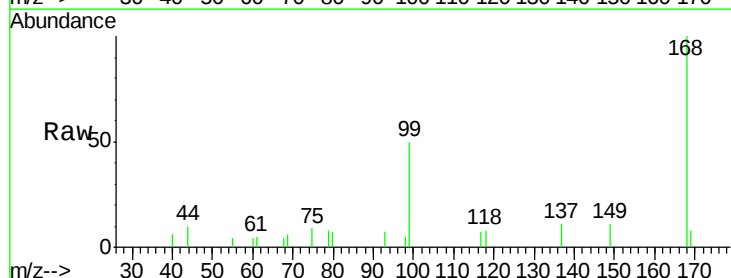
Tgt Ion: 117 Resp: 1077

Ion Ratio Lower Upper

117 100

119 0.0 78.8 118.2#

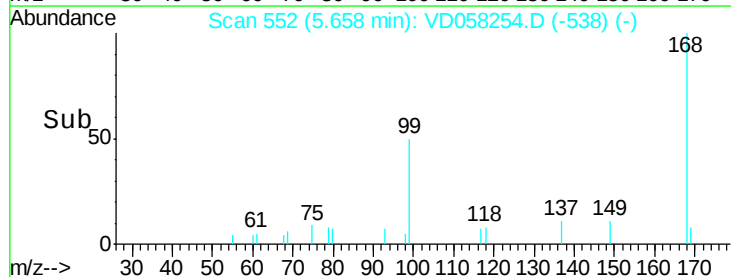
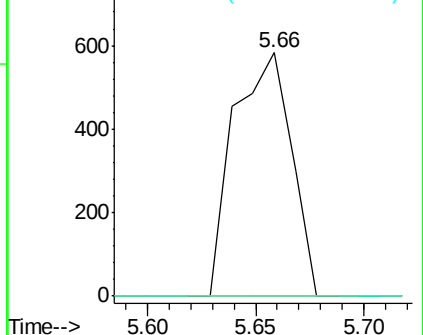
121 0.0 25.0 37.6#

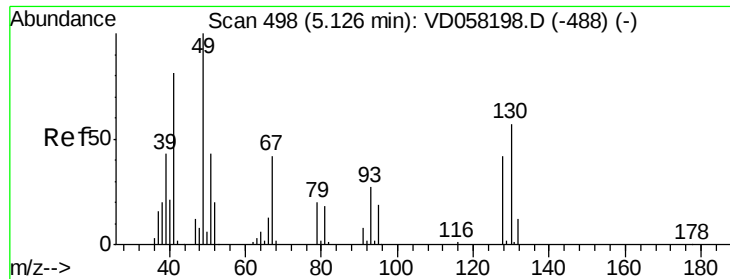


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

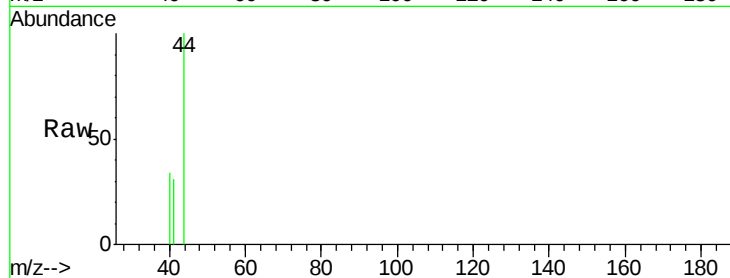




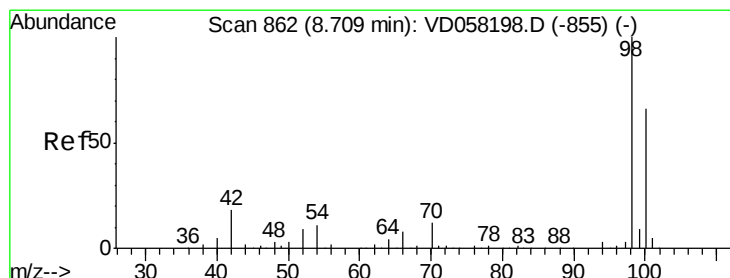
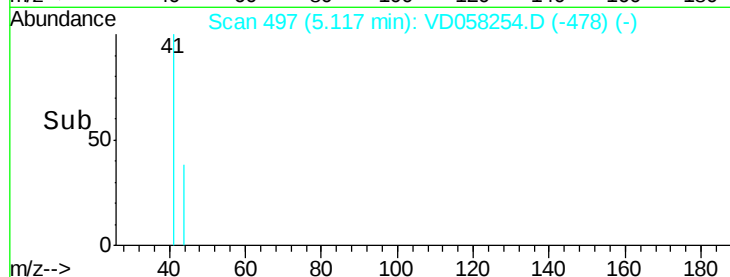
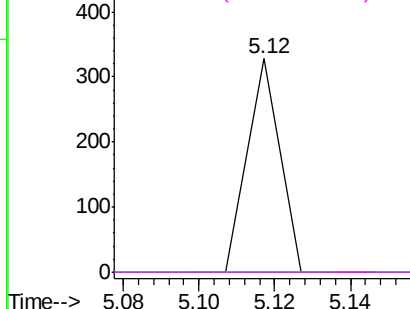
#41
Methacrylonitrile
Concen: 2.062 ug/l
RT: 5.12 min Scan# 497
Delta R.T. -0.01 min
Lab File: VD058254.D
Acq: 21 Jun 2018 16:03

Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-2

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	43.4	65.2#
67	0.0	41.7	62.5#
52	0.0	20.6	30.8#

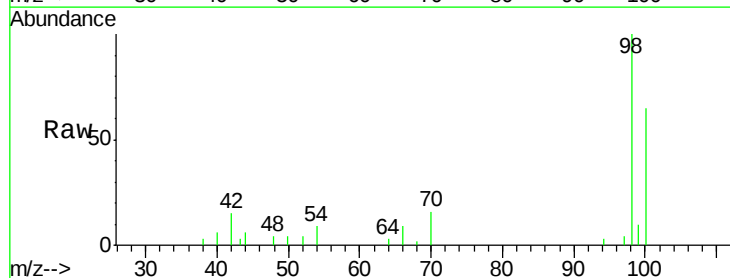


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

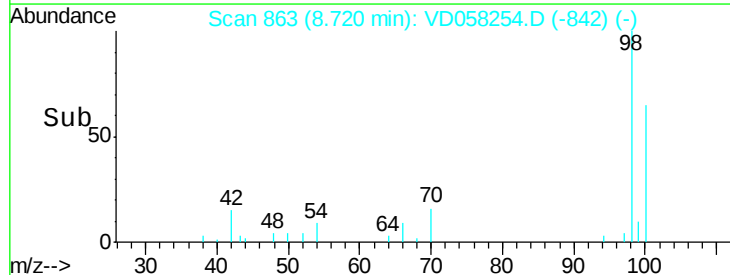
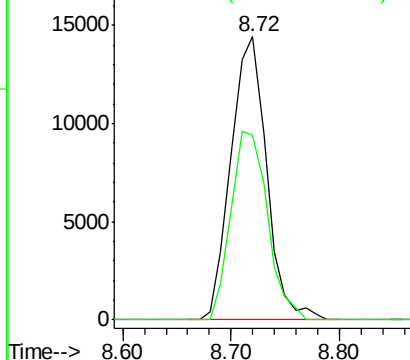


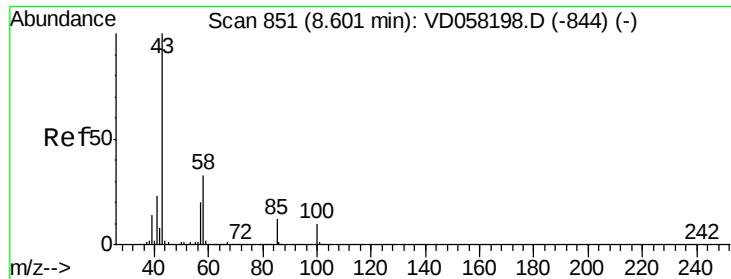
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.72 min Scan# 863
Delta R.T. 0.01 min
Lab File: VD058254.D
Acq: 21 Jun 2018 16:03

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.2	53.6	80.4



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





#51

4-Methyl-2-Pentanone

Concen: 1.115 ug/l

RT: 8.60 min Scan# 851

Delta R.T. 0.00 min

Lab File: VD058254.D

Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

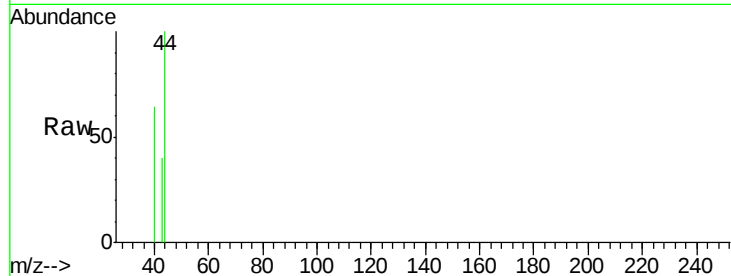
26KV-TP-2

Tot Ion: 43 Resp: 189

Ion Ratio Lower Upper

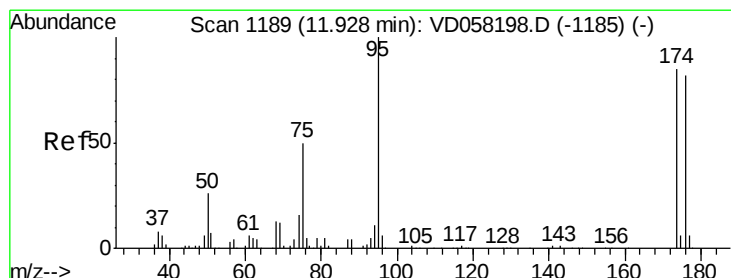
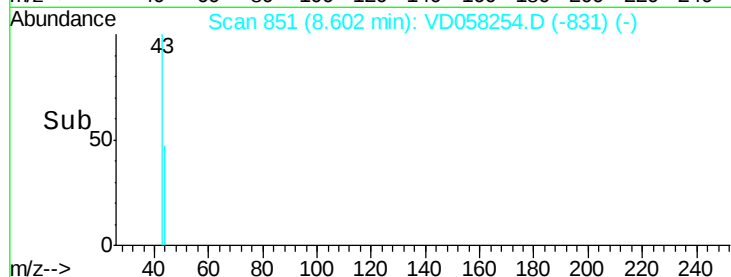
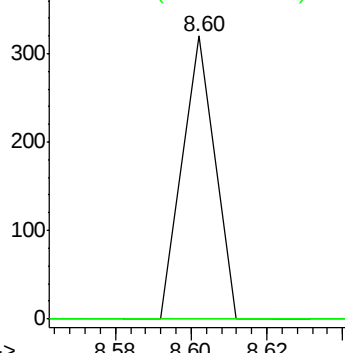
43 100

58 0.0 26.7 40.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058254.D

Acq: 21 Jun 2018 16:03

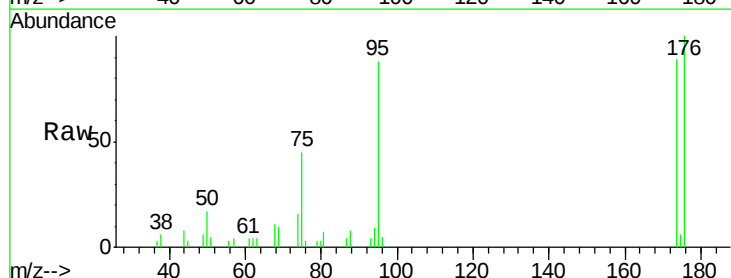
Tgt Ion: 95 Resp: 13193

Ion Ratio Lower Upper

95 100

174 100.6 0.0 170.2

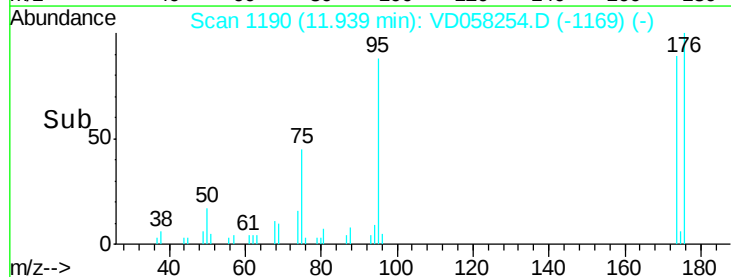
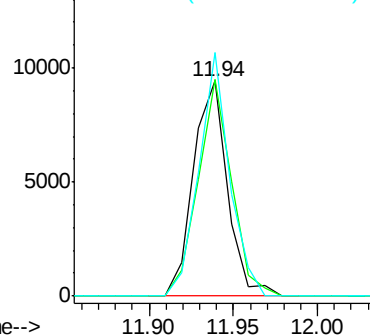
176 113.1 0.0 164.6

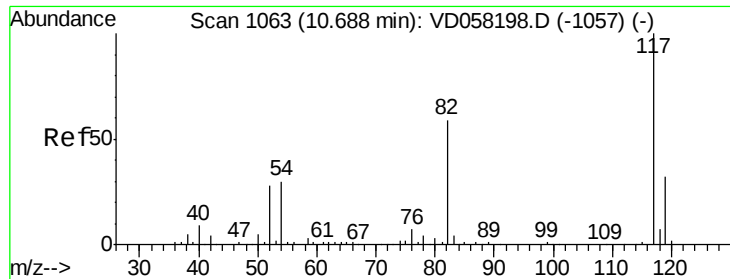


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

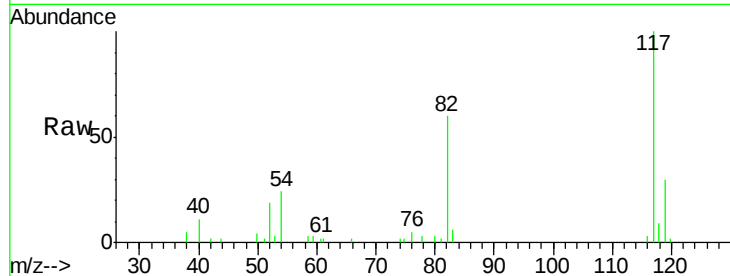




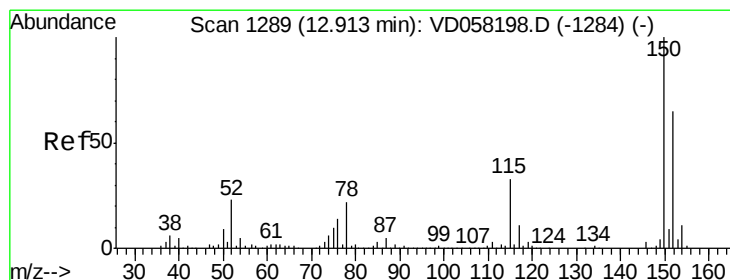
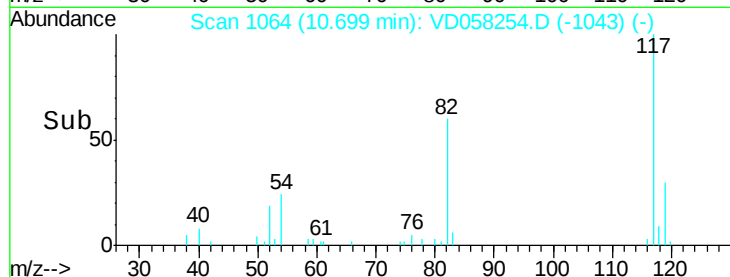
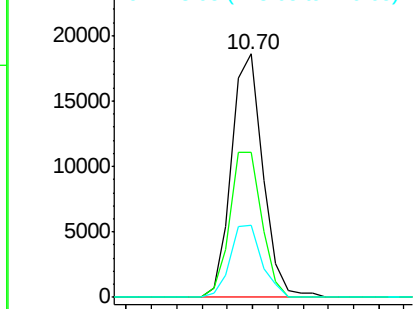
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058254.D
Acq: 21 Jun 2018 16:03

Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-2

Tot Ion:117 Resp: 31973
Ion Ratio Lower Upper
117 100
82 59.7 47.0 70.6
119 29.5 25.3 37.9

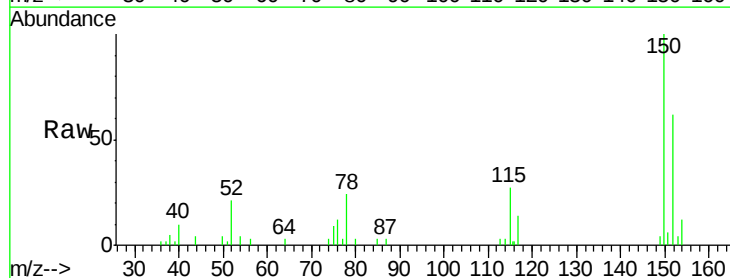


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

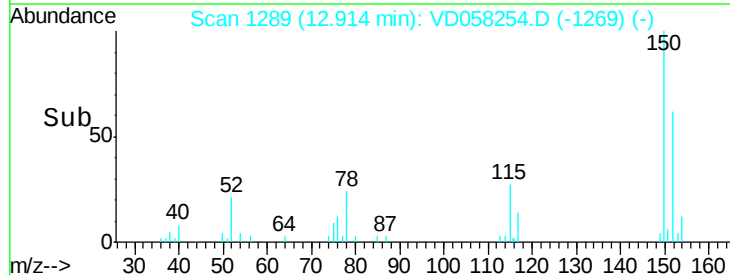
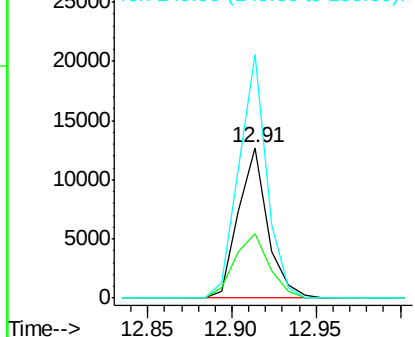


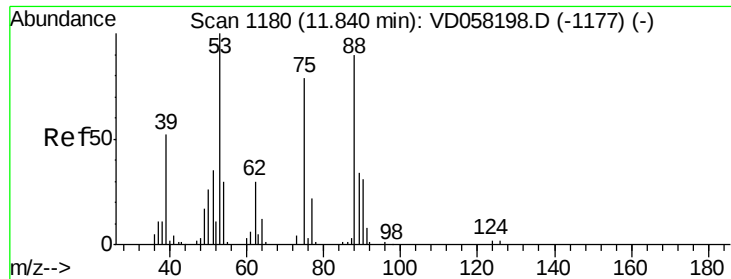
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VD058254.D
Acq: 21 Jun 2018 16:03

Tgt Ion:152 Resp: 15400
Ion Ratio Lower Upper
152 100
115 46.1 25.1 75.3
150 161.5 0.0 308.8



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

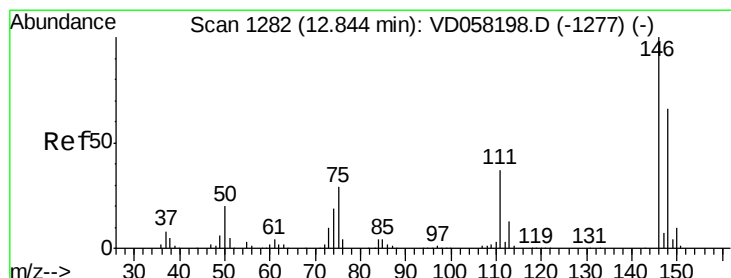
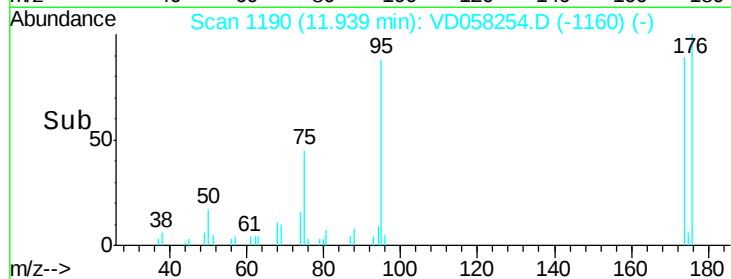
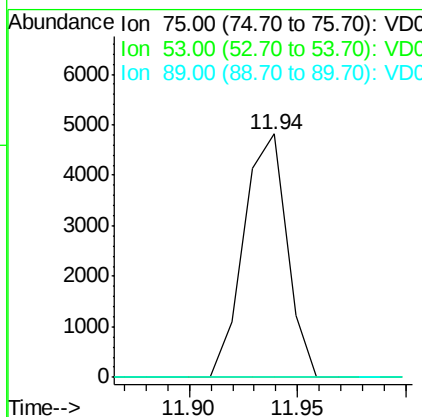
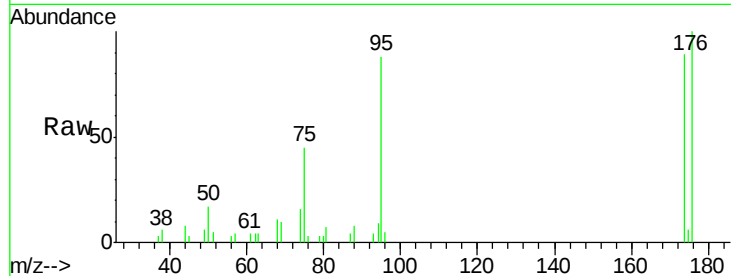




#81
trans-1,4-Dichloro-2-butene
Concen: 121.230 ug/l
RT: 11.94 min Scan# 1190
Delta R.T. 0.10 min
Lab File: VD058254.D
Acq: 21 Jun 2018 16:03

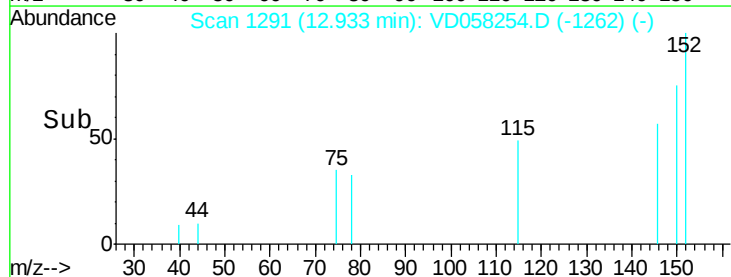
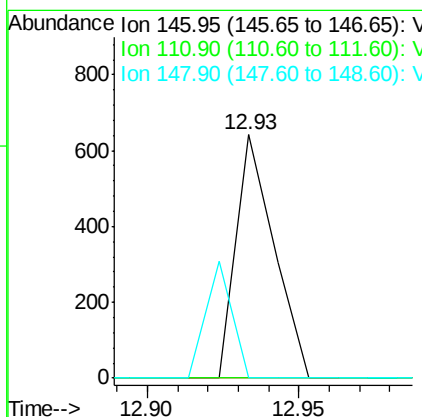
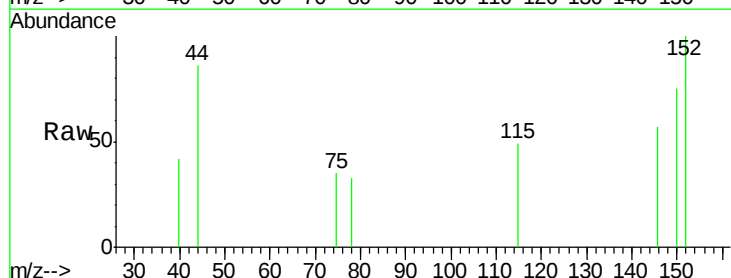
Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-2

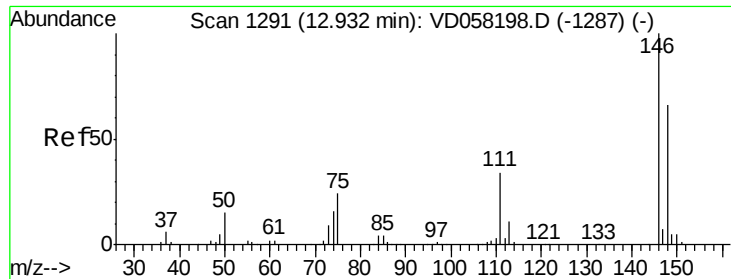
Tot Ion: 75 Resp: 6648
Ion Ratio Lower Upper
75 100
53 0.0 100.8 151.2#
89 0.0 34.6 52.0#



#87
1,3-Dichlorobenzene
Concen: 1.166 ug/l
RT: 12.93 min Scan# 1291
Delta R.T. 0.09 min
Lab File: VD058254.D
Acq: 21 Jun 2018 16:03

Tgt Ion: 146 Resp: 559
Ion Ratio Lower Upper
146 100
111 0.0 18.4 55.0#
148 0.0 32.8 98.4#





#88

1,4-Dichlorobenzene

Concen: 1.194 ug/l

RT: 12.93 min Scan# 1291

Delta R.T. 0.00 min

Lab File: VD058254.D

Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-2

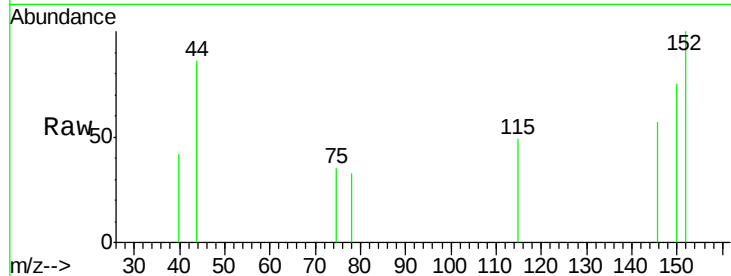
Tot Ion:146 Resp: 559

Ion Ratio Lower Upper

146 100

111 0.0 17.2 51.5#

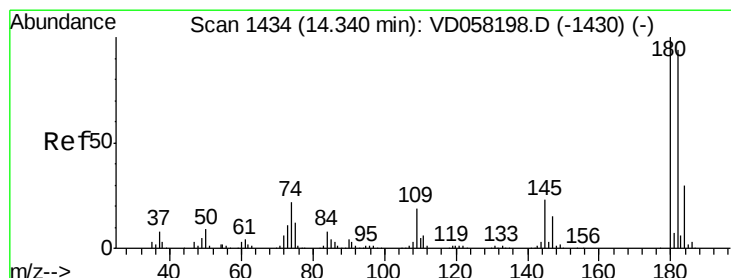
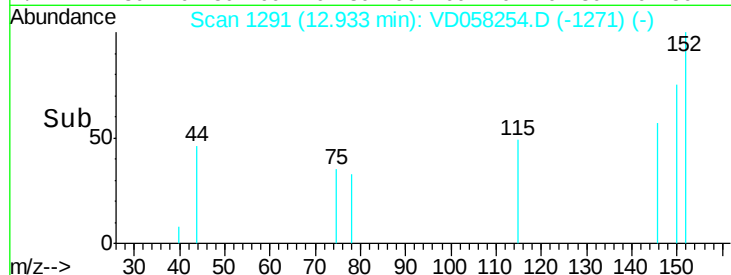
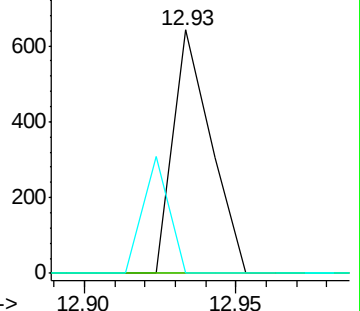
148 0.0 33.1 99.3#



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: 1.148 ug/l

RT: 14.34 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VD058254.D

Acq: 21 Jun 2018 16:03

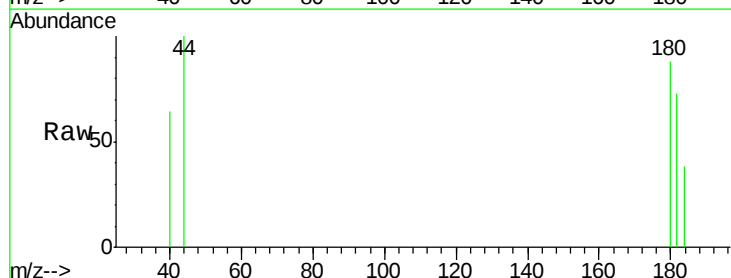
Tgt Ion:180 Resp: 448

Ion Ratio Lower Upper

180 100

182 82.6 47.1 141.3

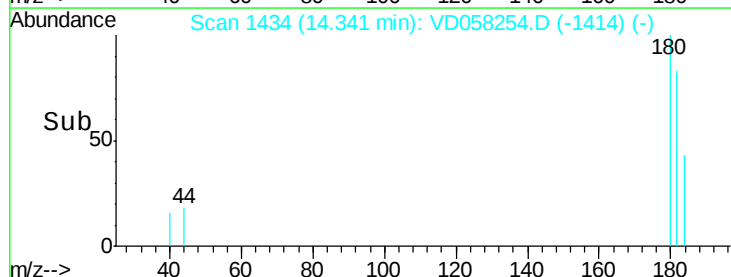
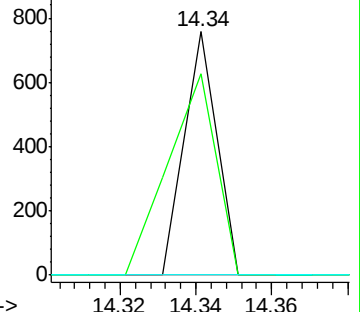
145 0.0 11.7 35.0#

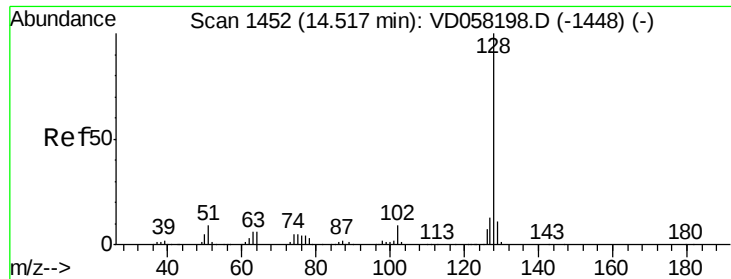


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V





#95

Naphthalene

Concen: 2.747 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VD058254.D

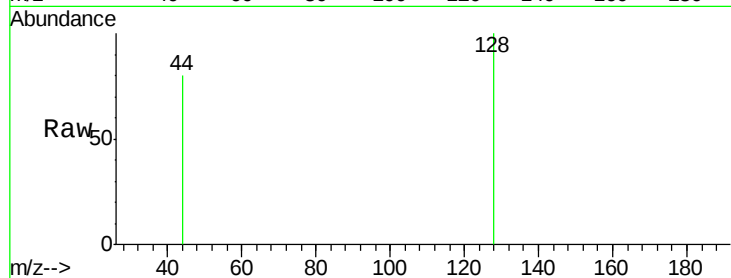
Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-2



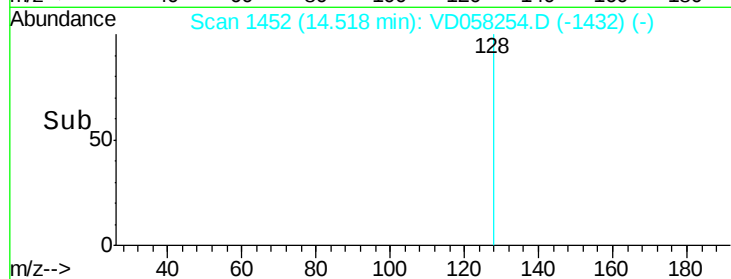
Tot Ion:128 Resp: 1412

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

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

