

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062018\
 Data File : VD058243.D
 Acq On : 21 Jun 2018 8:49
 Operator : VA/AP
 Sample : J3603-17
 Misc : 3.38g/5ml/MSVOA D/SOIL
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 26KV-TP-8

Quant Time: Jun 21 11:19:27 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	5.67	168	12159	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	6.71	114	20241	50.00	ug/l	0.02
63) Chlorobenzene-d5	10.70	117	9279	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	2319	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	17848	145.33	ug/l	0.02
Spiked Amount			Recovery	=	290.66%	
35) Dibromofluoromethane	5.57	113	13936	84.59	ug/l	0.02
Spiked Amount			Recovery	=	169.18%	
50) Toluene-d8	8.72	98	16934	42.49	ug/l	0.00
Spiked Amount			Recovery	=	84.98%	
62) 4-Bromofluorobenzene	11.94	95	3056	18.77	ug/l	0.00
Spiked Amount			Recovery	=	37.54%	

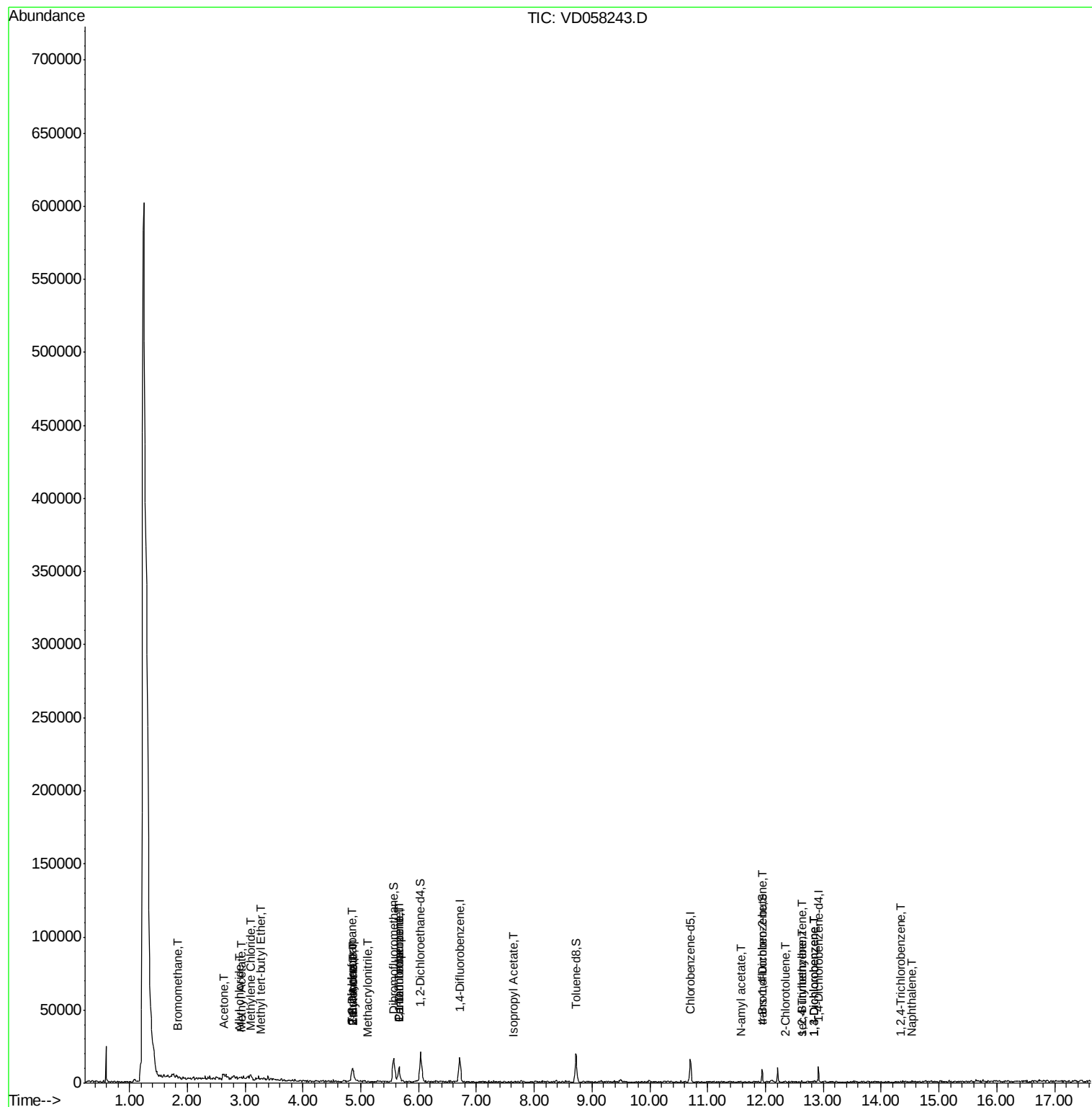
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	209	Below Cal	#	43
5) Bromomethane	1.83	94	423	17.43	ug/l #	3
14) Allyl chloride	2.92	41	749	7.70	ug/l #	75
16) Acetone	2.63	43	8177	486.85	ug/l	97
18) Methyl Acetate	2.94	43	396	11.06	ug/l #	65
19) Methyl tert-butyl Ether	3.27	73	185	1.67	ug/l #	56
20) Methylene Chloride	3.10	84	793	14.72	ug/l	81
25) 2-Butanone	4.88	43	1399	38.22	ug/l #	60
26) 2,2-Dichloropropane	4.84	77	254	1.46	ug/l #	55
29) Tetrahydrofuran	4.84	42	233	11.96	ug/l #	37
36) 1,1-Dichloropropene	5.66	75	206	1.03	ug/l #	43
37) Ethyl Acetate	4.88	43	1399	12.26	ug/l #	72
38) Carbon Tetrachloride	5.66	117	776	3.90	ug/l #	11
41) Methacrylonitrile	5.13	41	204	3.70	ug/l #	30
43) Isopropyl Acetate	7.64	43	183	1.20	ug/l #	48
74) N-amyl acetate	11.56	43	333	6.21	ug/l #	53
79) 2-Chlorotoluene	12.34	91	234	2.28	ug/l #	45
81) trans-1,4-Dichloro-2-buten	11.94	75	1455	176.20	ug/l #	1
82) 4-Chlorotoluene	12.34	91	234	Below Cal	#	45
84) 1,2,4-Trimethylbenzene	12.63	105	202	1.72	ug/l #	34
85) sec-Butylbenzene	12.63	105	202	1.39	ug/l #	62
87) 1,3-Dichlorobenzene	12.85	146	181	2.51	ug/l #	25
88) 1,4-Dichlorobenzene	12.85	146	181	2.57	ug/l #	25
93) 1,2,4-Trichlorobenzene	14.34	180	213	3.62	ug/l #	12
95) Naphthalene	14.53	128	493	6.37	ug/l #	70

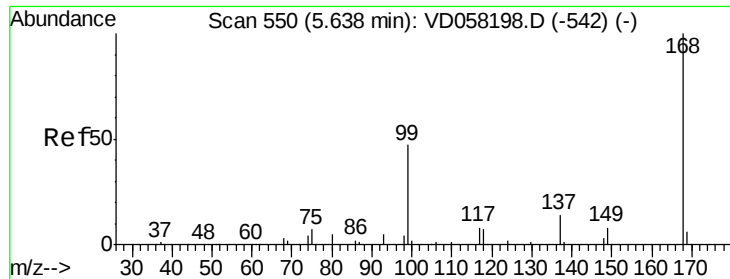
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 553

Delta R.T. 0.03 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

Instrument :

MSVOA_D

ClientSampleId :

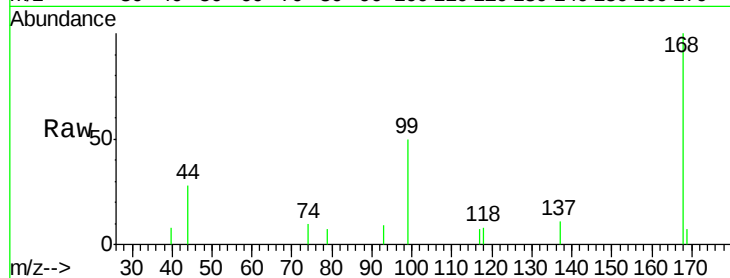
26KV-TP-8

Tot Ion:168 Resp: 12159

Ion Ratio Lower Upper

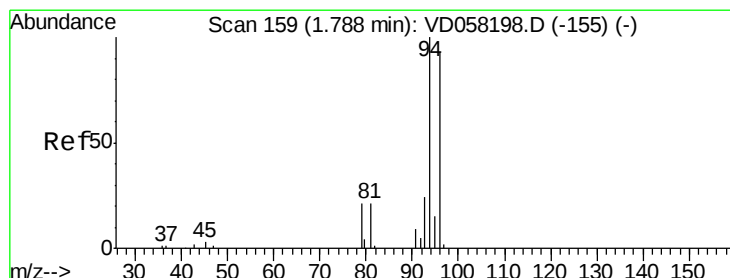
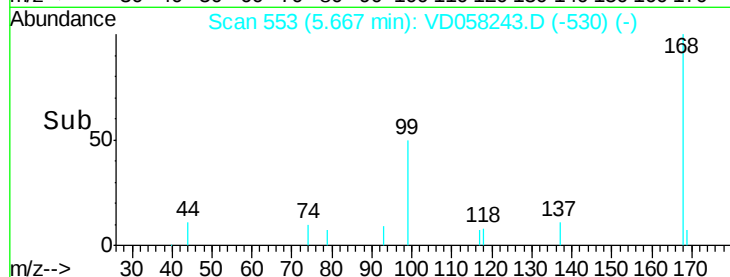
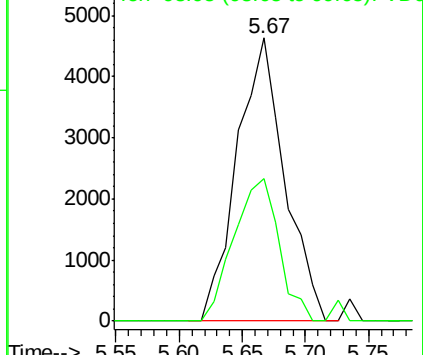
168 100

99 50.2 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 17.43 ug/l

RT: 1.83 min Scan# 163

Delta R.T. 0.04 min

Lab File: VD058243.D

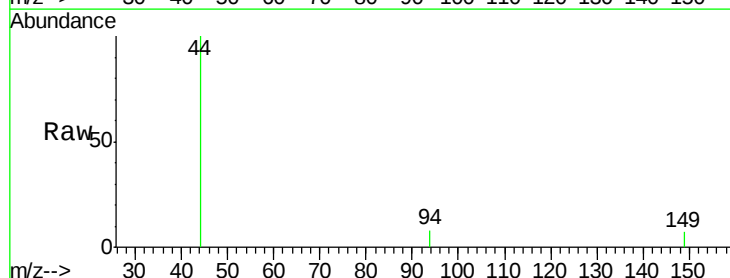
Acq: 21 Jun 2018 8:49

Tgt Ion: 94 Resp: 423

Ion Ratio Lower Upper

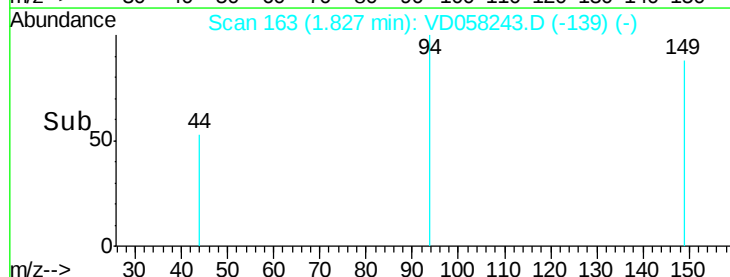
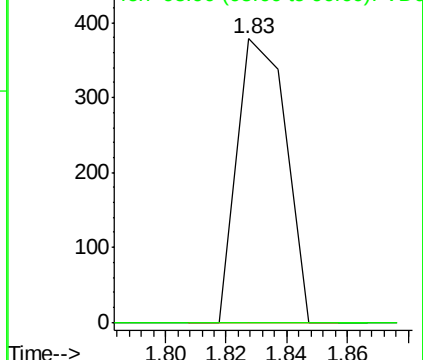
94 100

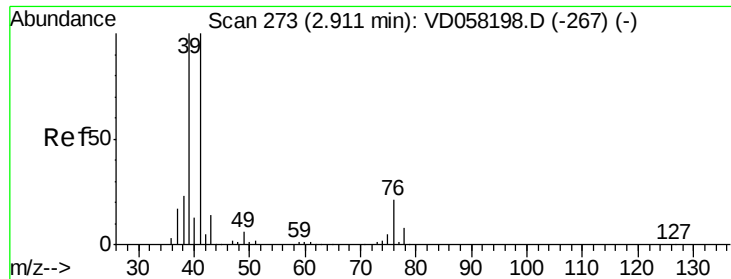
96 0.0 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#14

Allvl chloride

Concen: 7.70 ug/l

RT: 2.92 min Scan# 274

Delta R.T. 0.01 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-8

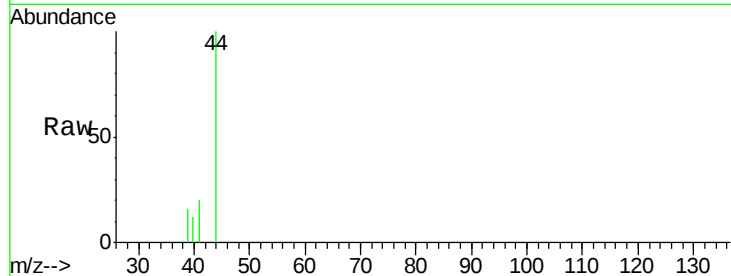
Tot Ion: 41 Resp: 749

Ion Ratio Lower Upper

41 100

39 80.7 80.1 120.1

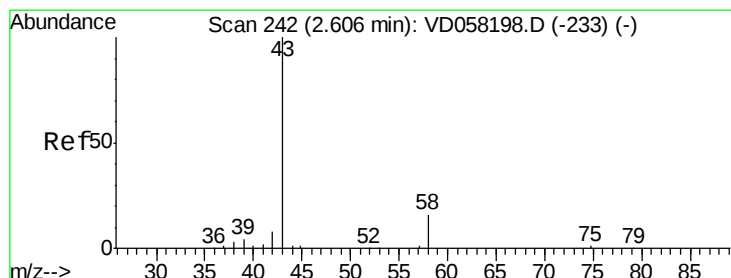
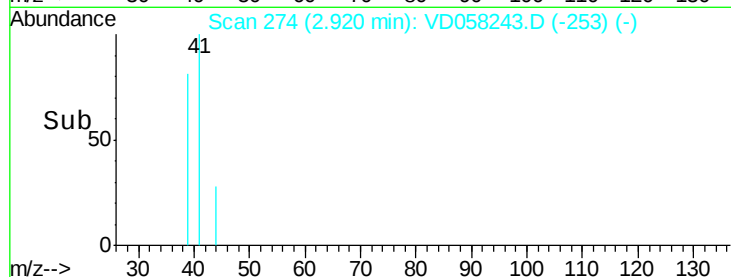
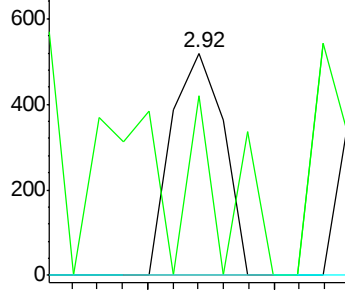
76 0.0 19.4 29.2#



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: 486.85 ug/l

RT: 2.63 min Scan# 245

Delta R.T. 0.03 min

Lab File: VD058243.D

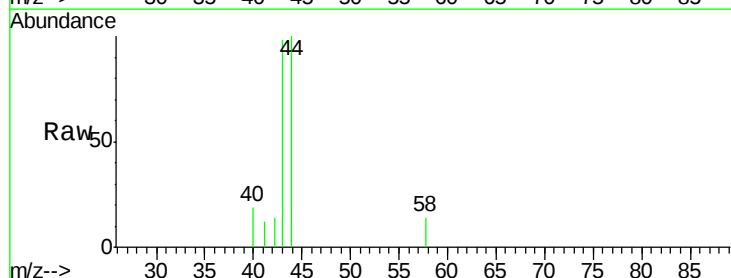
Acq: 21 Jun 2018 8:49

Tgt Ion: 43 Resp: 8177

Ion Ratio Lower Upper

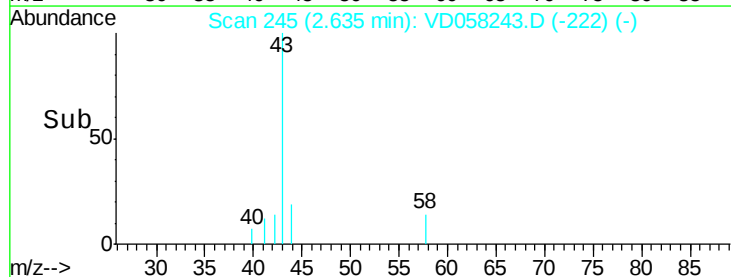
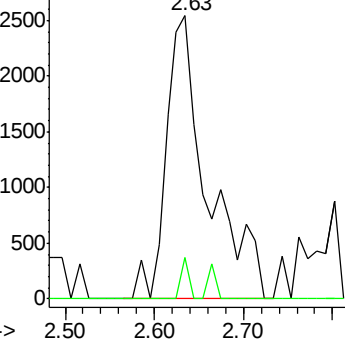
43 100

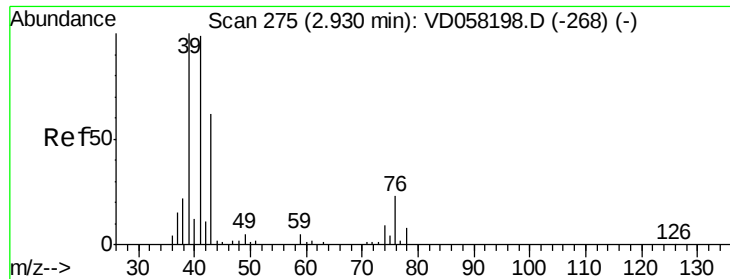
58 14.4 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

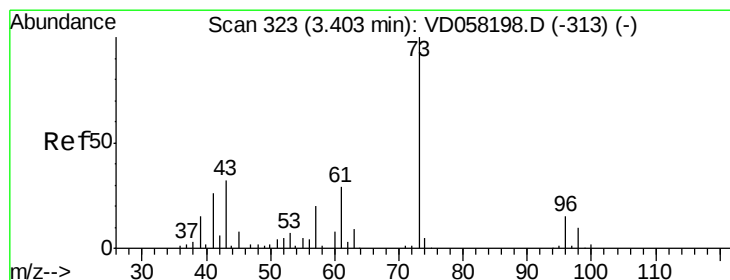
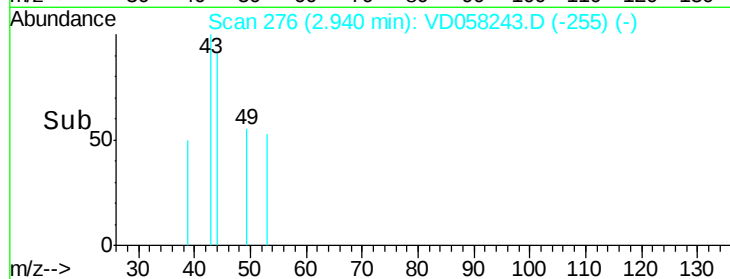
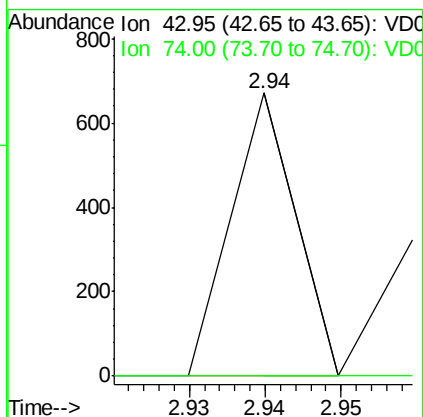
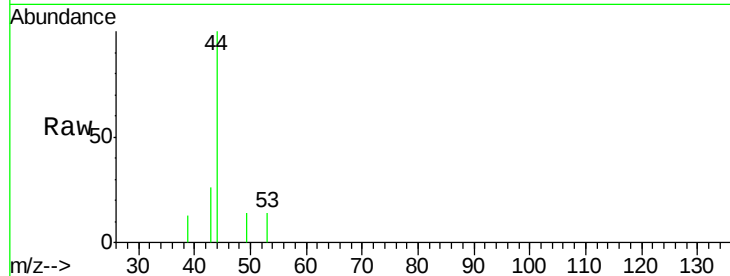




#18
Methyl Acetate
Concen: 11.06 ug/l
RT: 2.94 min Scan# 276
Delta R.T. 0.01 min
Lab File: VD058243.D
Acq: 21 Jun 2018 8:49

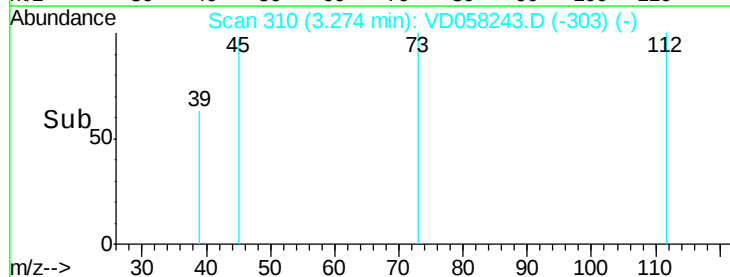
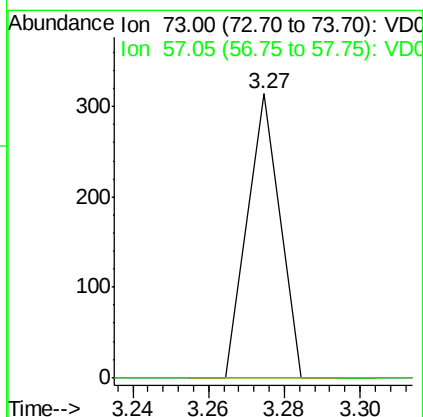
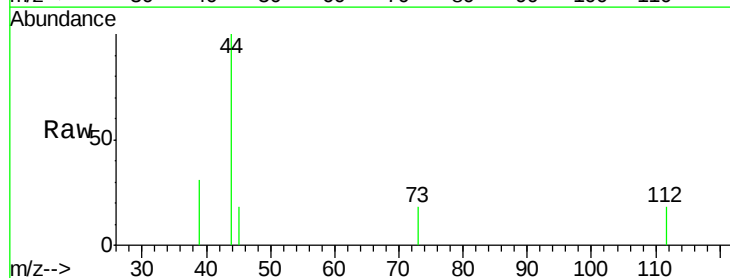
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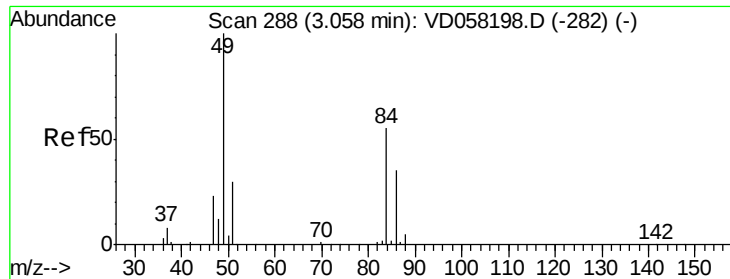
Tot Ion: 43 Resp: 396
Ion Ratio Lower Upper
43 100
74 0.0 11.7 17.5#



#19
Methyl tert-butyl Ether
Concen: 1.67 ug/l
RT: 3.27 min Scan# 310
Delta R.T. -0.13 min
Lab File: VD058243.D
Acq: 21 Jun 2018 8:49

Tgt Ion: 73 Resp: 185
Ion Ratio Lower Upper
73 100
57 0.0 16.6 24.8#

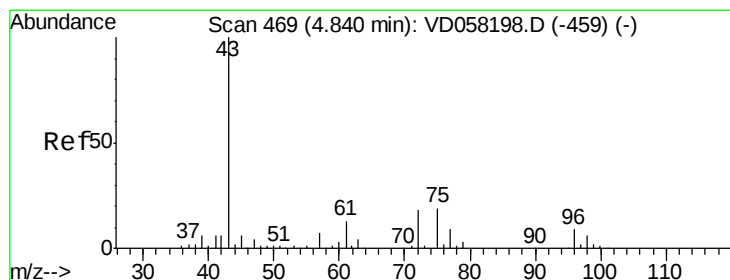
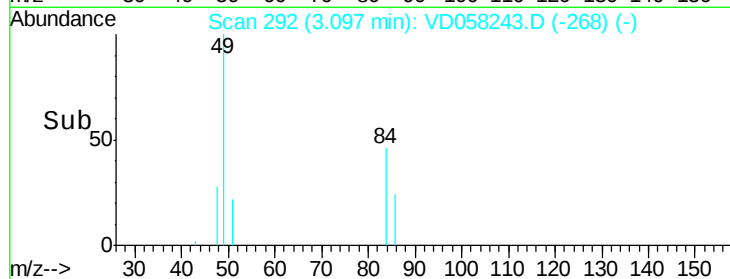
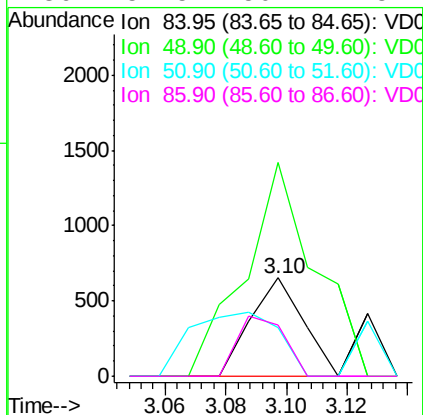
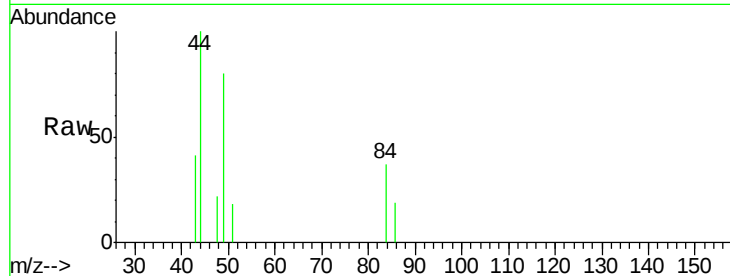




#20
Methvlene Chloride
Concen: 14.72 ug/l
RT: 3.10 min Scan# 292
Delta R.T. 0.04 min
Lab File: VD058243.D
Acq: 21 Jun 2018 8:49

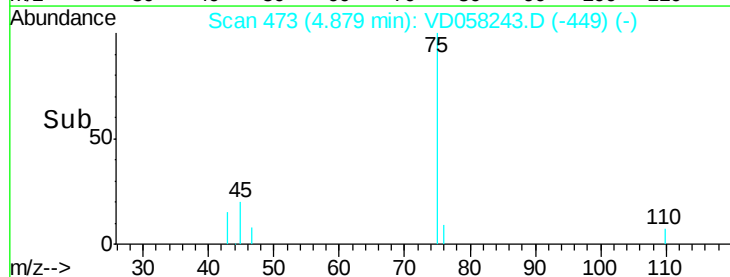
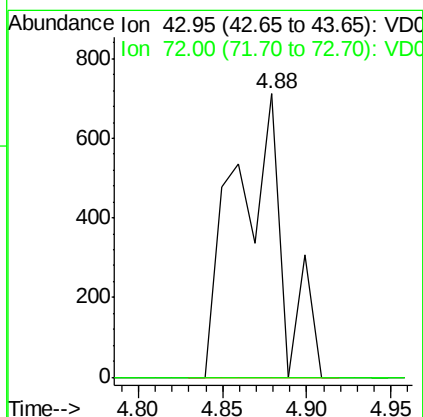
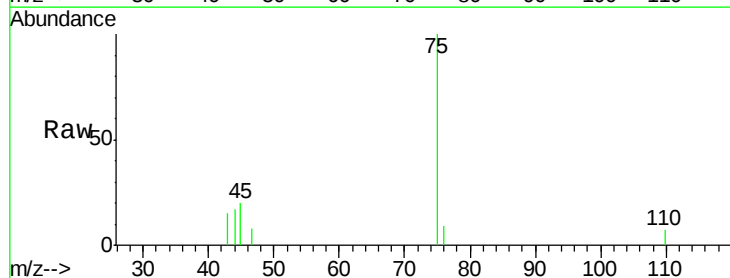
Instrument :
MSVOA_D
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26KV-TP-8

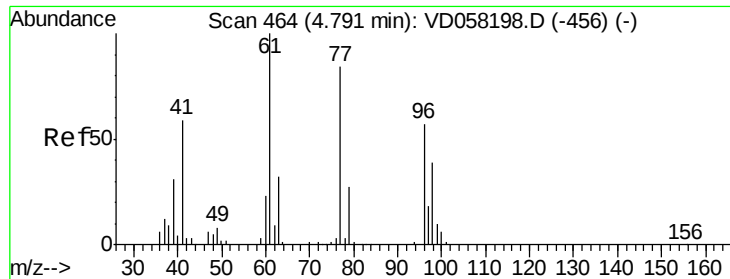
Tot Ion:	84	Resp:	793
Ion	Ratio	Lower	Upper
84	100		
49	217.3	145.0	217.6
51	48.9	42.9	64.3
86	52.5	50.1	75.1



#25
2-Butanone
Concen: 38.22 ug/l
RT: 4.88 min Scan# 473
Delta R.T. 0.04 min
Lab File: VD058243.D
Acq: 21 Jun 2018 8:49

Tgt Ion:	43	Resp:	1399
Ion	Ratio	Lower	Upper
43	100		
72	0.0	14.1	21.1#

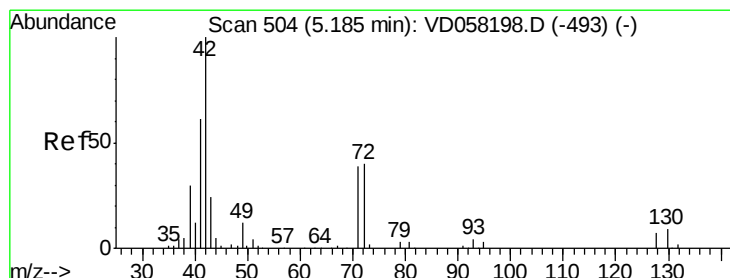
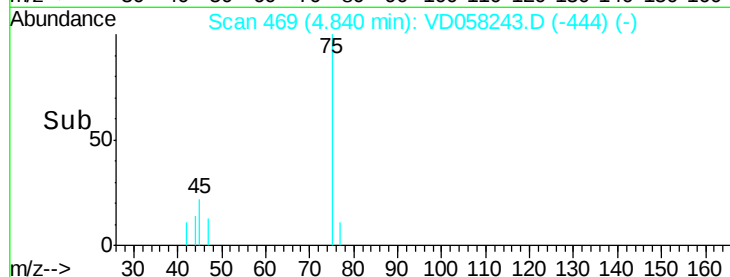
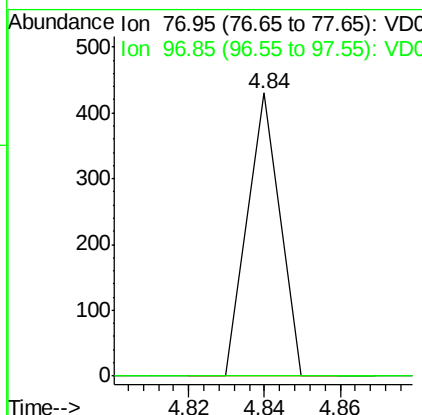
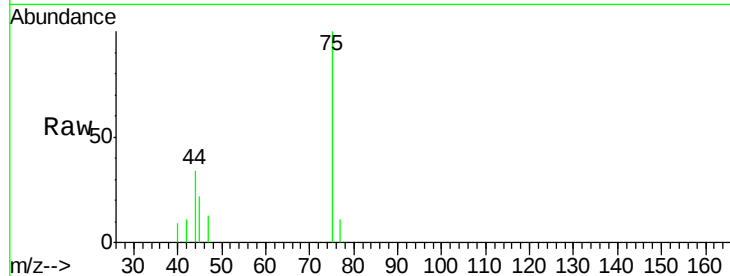




#26
 2,2-Dichloropropane
 Concen: 1.46 ug/l
 RT: 4.84 min Scan# 469
 Delta R.T. 0.05 min
 Lab File: VD058243.D
 Acq: 21 Jun 2018 8:49

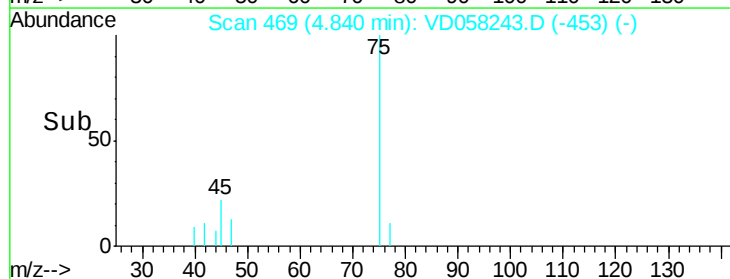
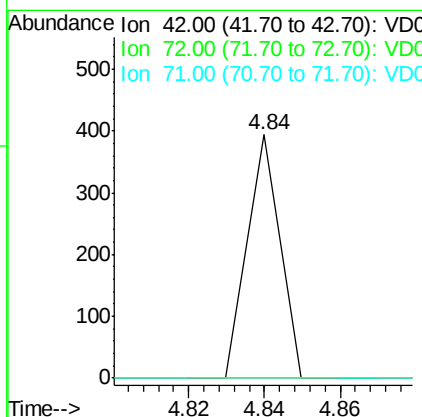
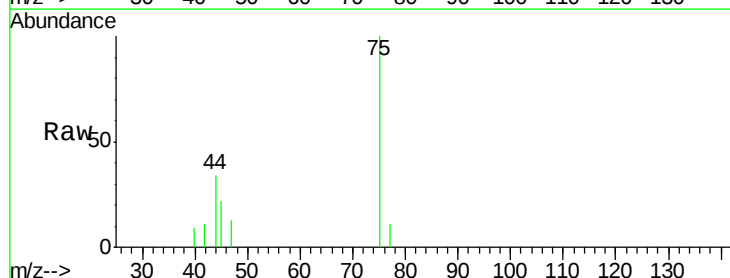
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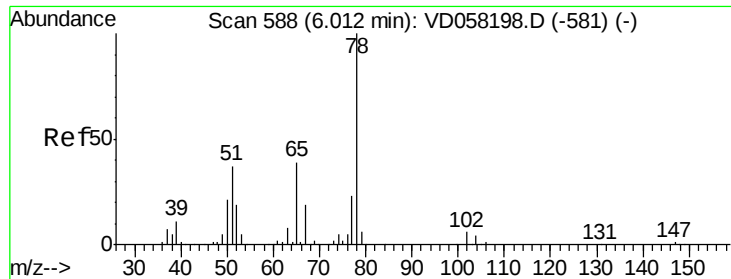
Tot Ion: 77 Resp: 254
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.5 31.6#



#29
 Tetrahydrofuran
 Concen: 11.96 ug/l
 RT: 4.84 min Scan# 469
 Delta R.T. -0.35 min
 Lab File: VD058243.D
 Acq: 21 Jun 2018 8:49

Tgt Ion: 42 Resp: 233
 Ion Ratio Lower Upper
 42 100
 72 0.0 30.2 45.2#
 71 0.0 30.1 45.1#

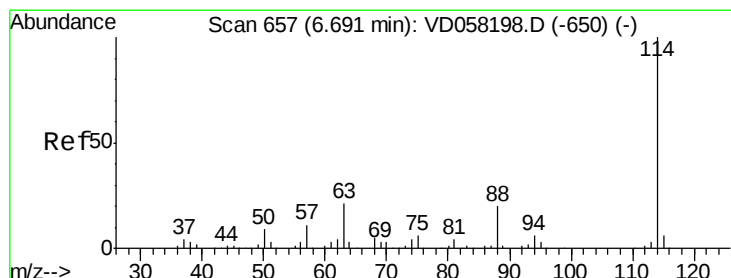
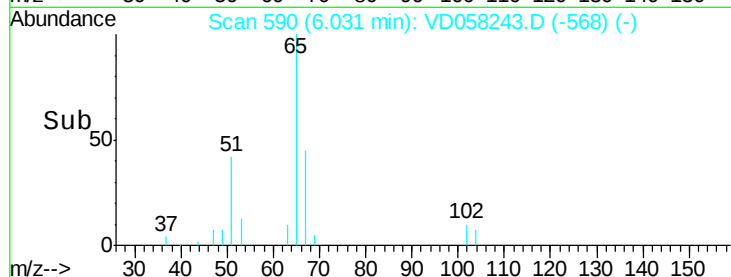
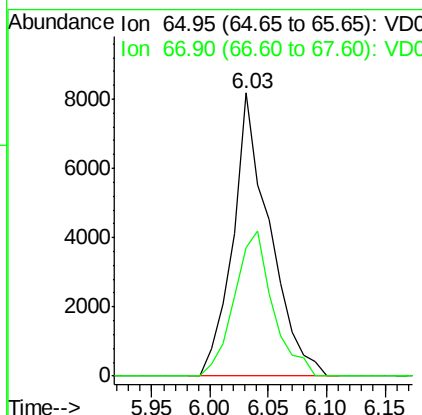
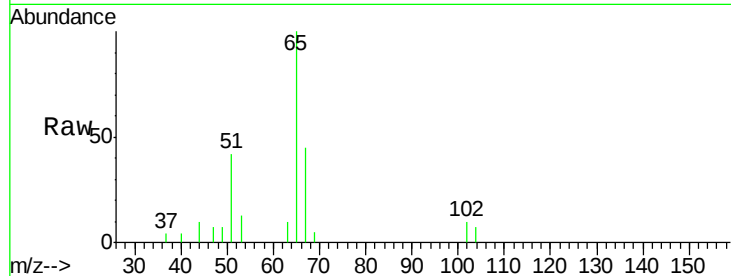




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.03 min Scan# 590
 Delta R.T. 0.02 min
 Lab File: VD058243.D
 Acq: 21 Jun 2018 8:49

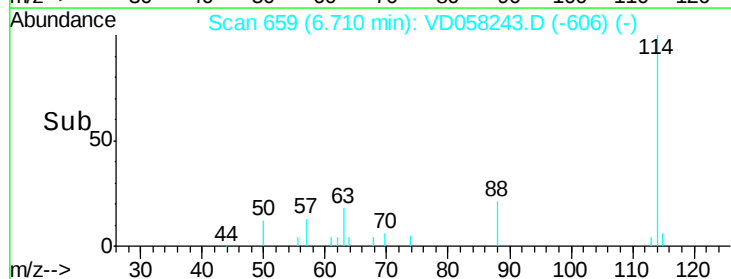
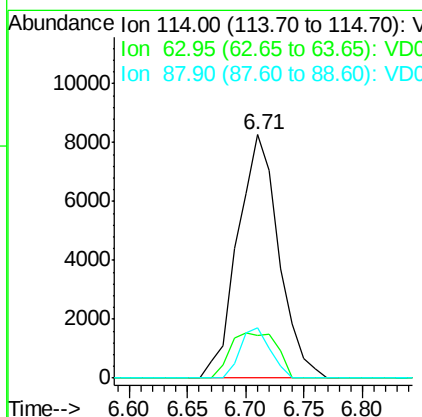
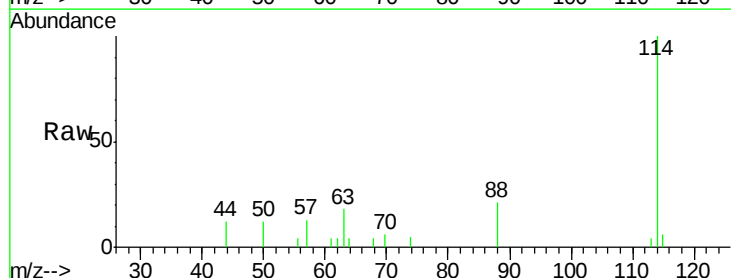
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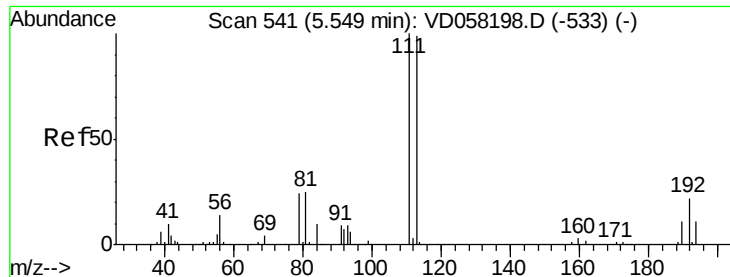
Tot Ion: 65 Resp: 17848
 Ion Ratio Lower Upper
 65 100
 67 45.2 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.71 min Scan# 659
 Delta R.T. 0.02 min
 Lab File: VD058243.D
 Acq: 21 Jun 2018 8:49

Tgt Ion: 114 Resp: 20241
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 42.6
 88 20.5 0.0 40.6





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.57 min Scan# 543

Delta R.T. 0.02 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-8

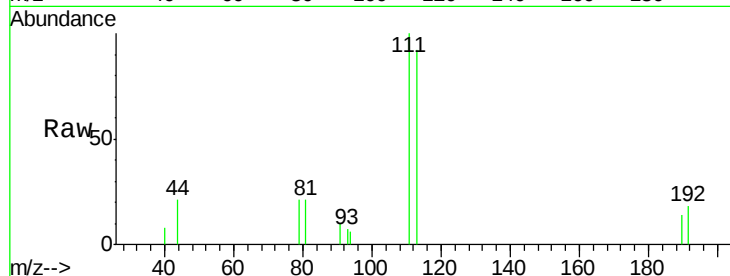
Tot Ion:113 Resp: 13936

Ion Ratio Lower Upper

113 100

111 109.2 80.6 121.0

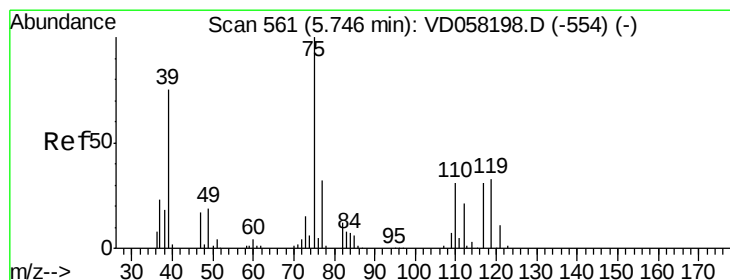
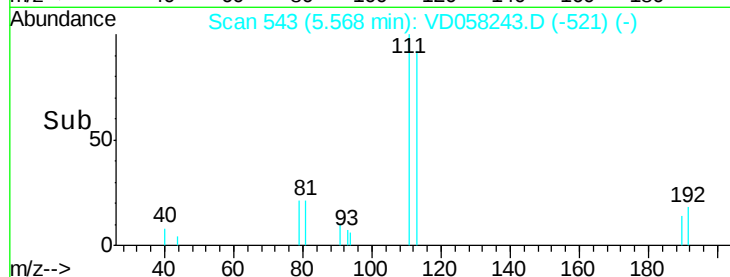
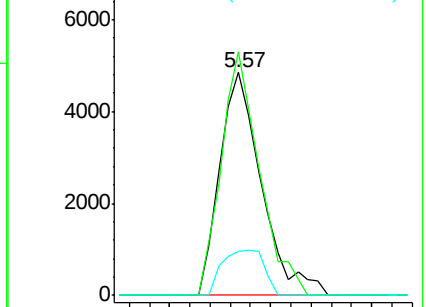
192 19.9 17.8 26.6



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: 1.03 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.09 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

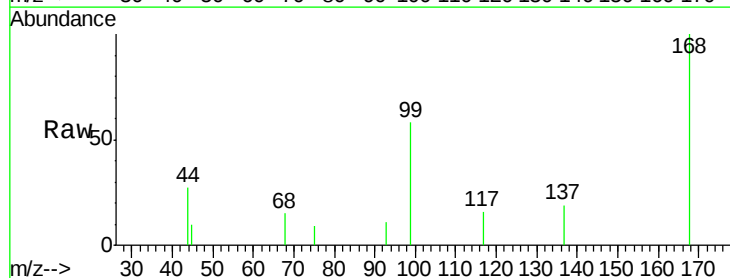
Tgt Ion: 75 Resp: 206

Ion Ratio Lower Upper

75 100

110 0.0 15.4 46.4#

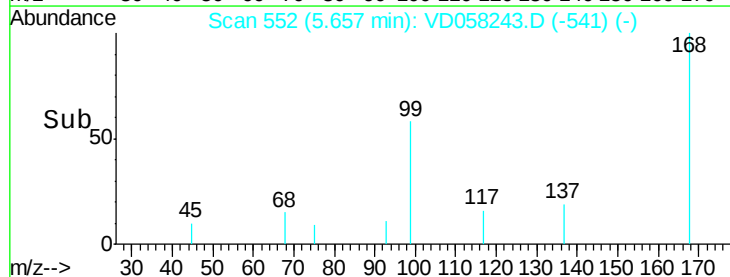
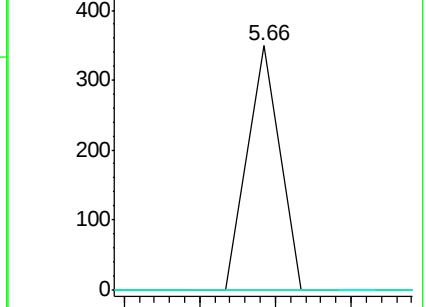
77 0.0 25.4 38.2#

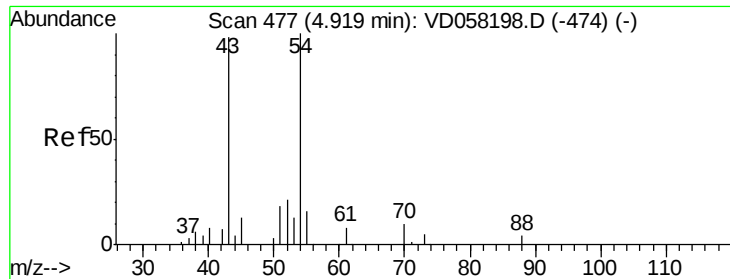


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 12.26 ug/l

RT: 4.88 min Scan# 473

Delta R.T. -0.04 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-8

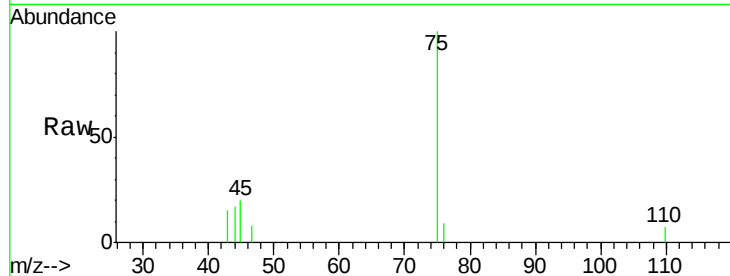
Tot Ion: 43 Resp: 1399

Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

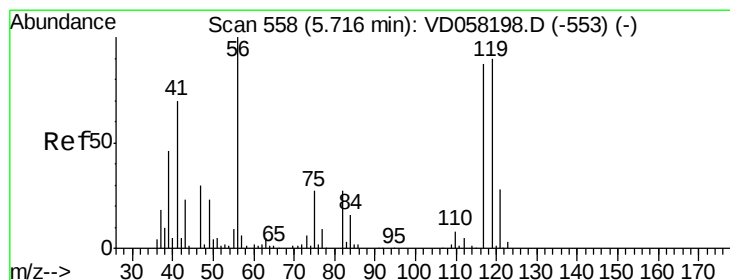
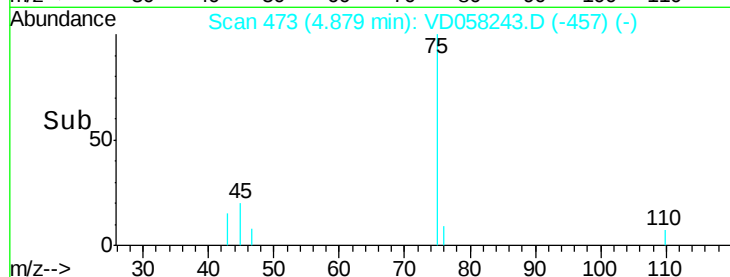
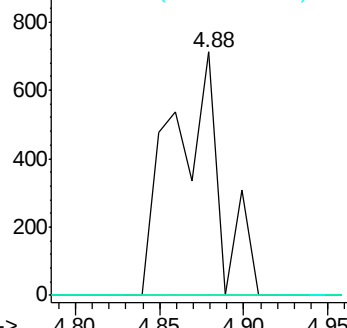
70 0.0 5.7 8.5#



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: 3.90 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.06 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

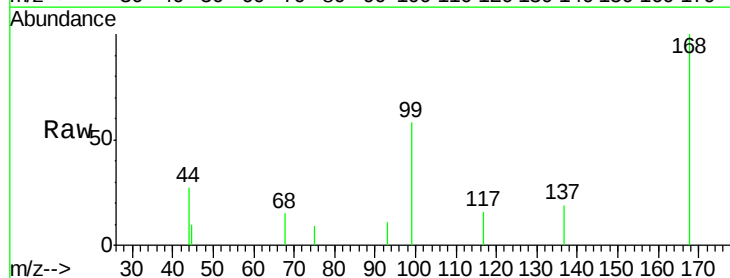
Tgt Ion: 117 Resp: 776

Ion Ratio Lower Upper

117 100

119 0.0 78.8 118.2#

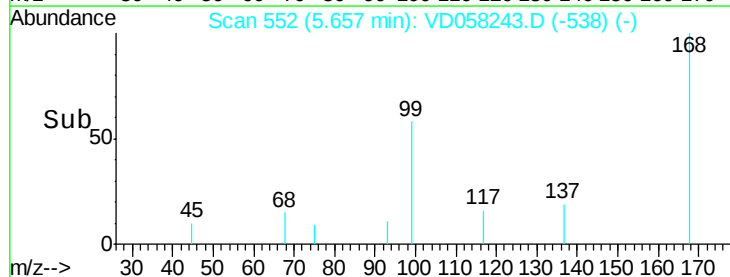
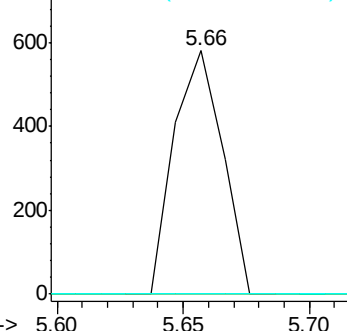
121 0.0 25.0 37.6#

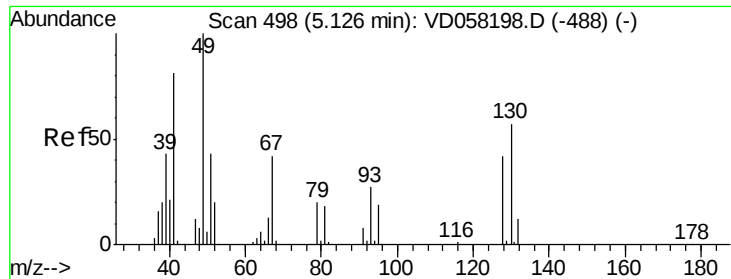


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#41

Methacrylonitrile

Concen: 3.70 ug/l

RT: 5.13 min Scan# 498

Delta R.T. -0.00 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-8

Tot Ion: 41 Resp: 204

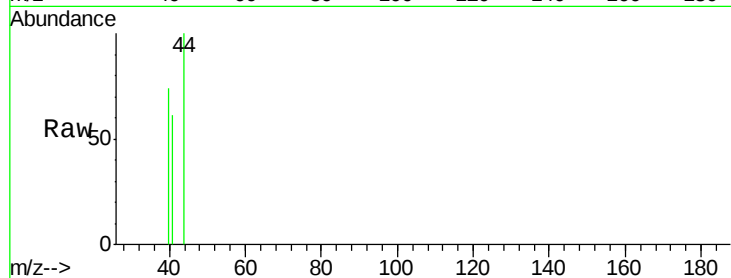
Ion Ratio Lower Upper

41 100

39 0.0 43.4 65.2#

67 0.0 41.7 62.5#

52 0.0 20.6 30.8#

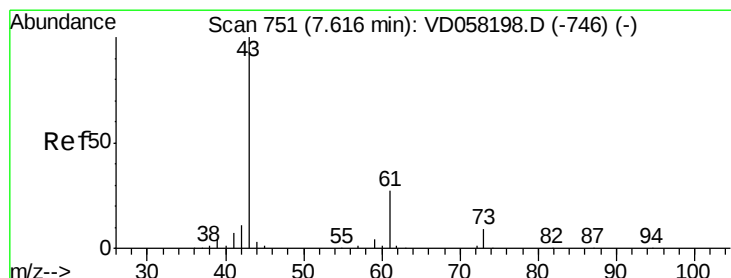
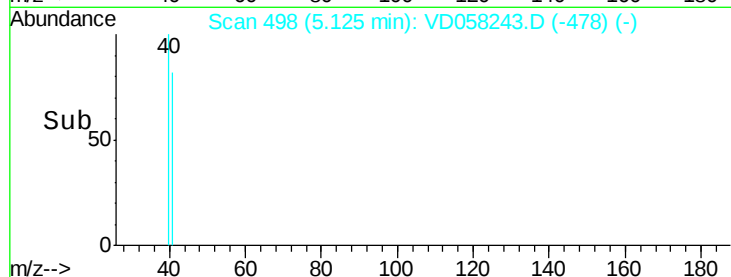
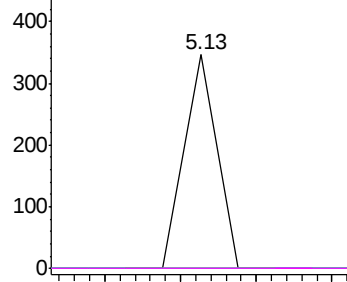


Abundance Ion 40.95 (40.65 to 41.65): VDC

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



#43

Isopropyl Acetate

Concen: 1.20 ug/l

RT: 7.64 min Scan# 753

Delta R.T. 0.02 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

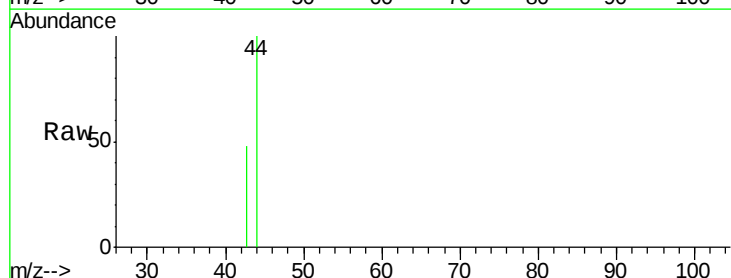
Tgt Ion: 43 Resp: 183

Ion Ratio Lower Upper

43 100

61 0.0 21.8 32.6#

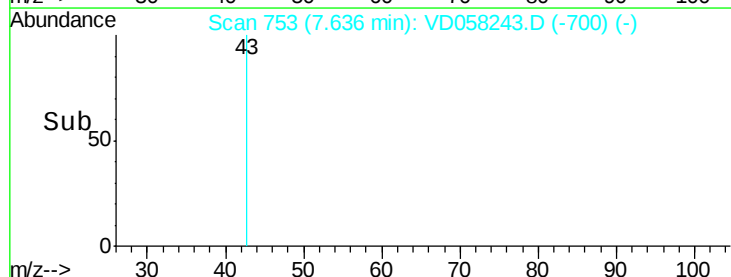
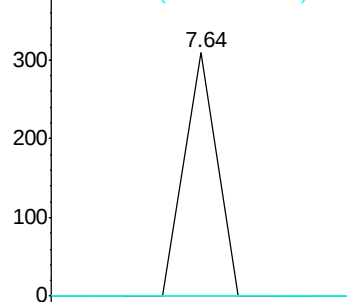
87 0.0 0.3 0.5#

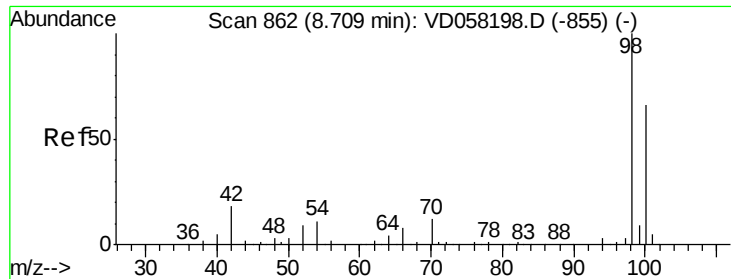


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

Instrument :

MSVOA_D

ClientSampleId :

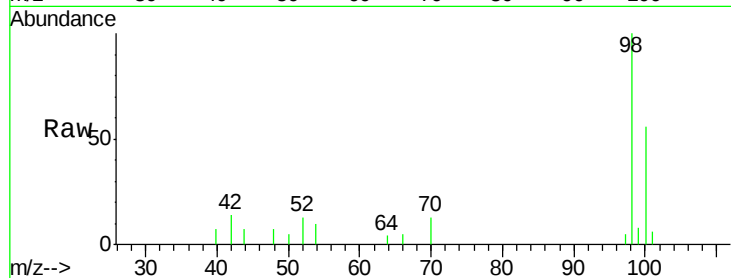
26KV-TP-8

Tot Ion: 98 Resp: 16934

Ion Ratio Lower Upper

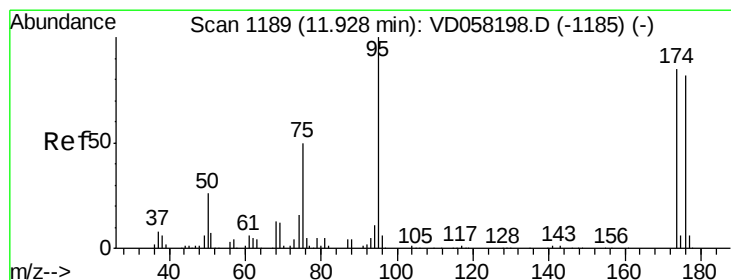
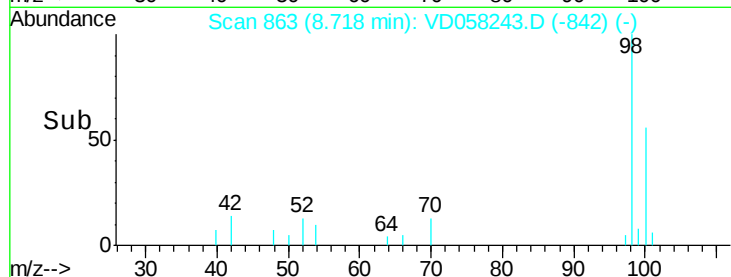
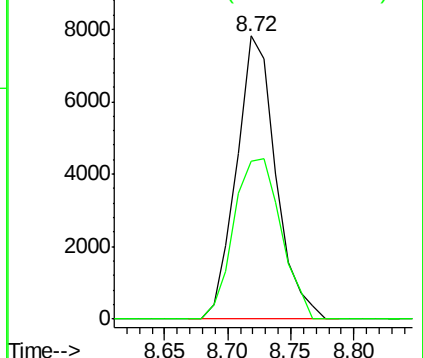
98 100

100 55.8 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

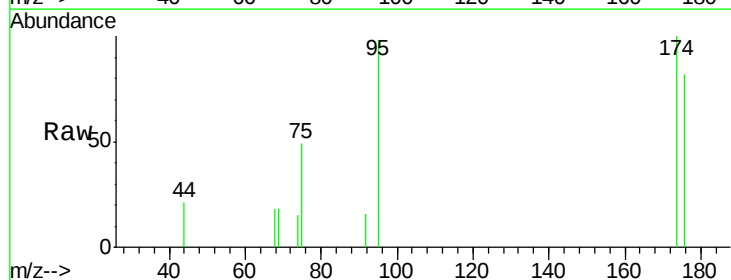
Tgt Ion: 95 Resp: 3056

Ion Ratio Lower Upper

95 100

174 101.7 0.0 170.2

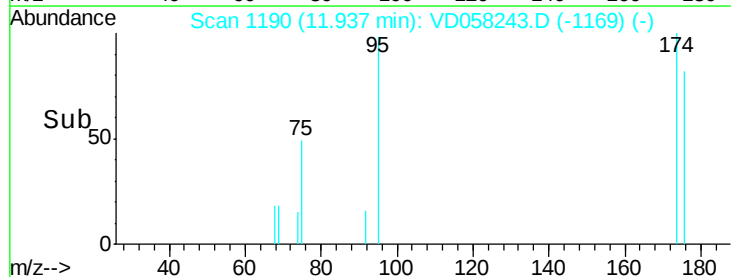
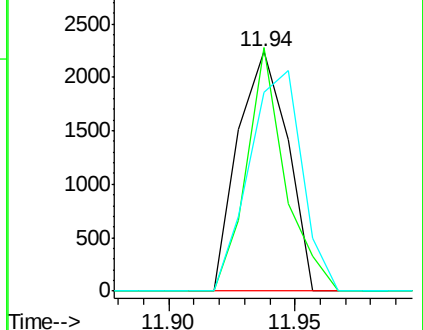
176 83.2 0.0 164.6

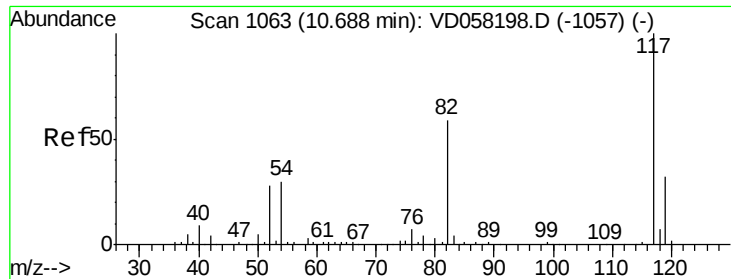


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

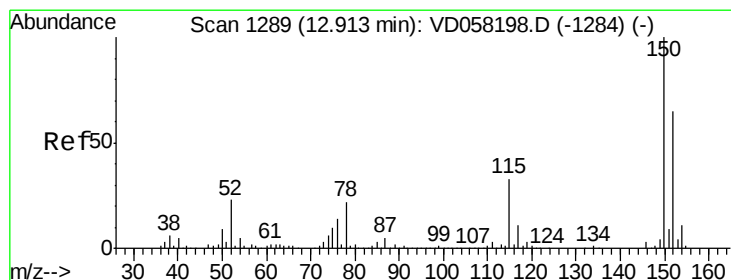
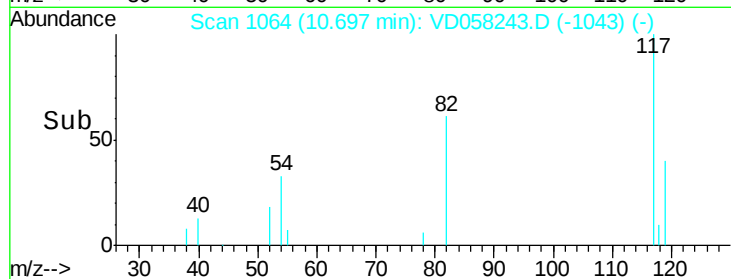
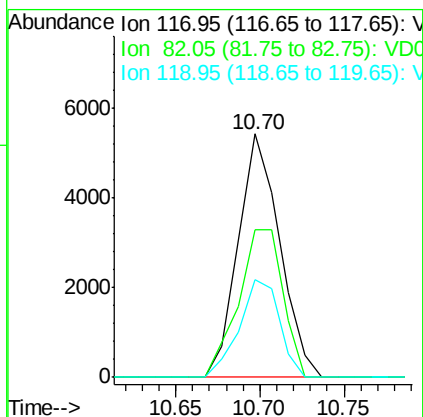
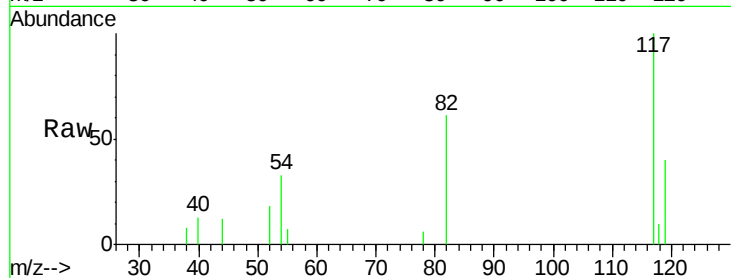




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058243.D
Acq: 21 Jun 2018 8:49

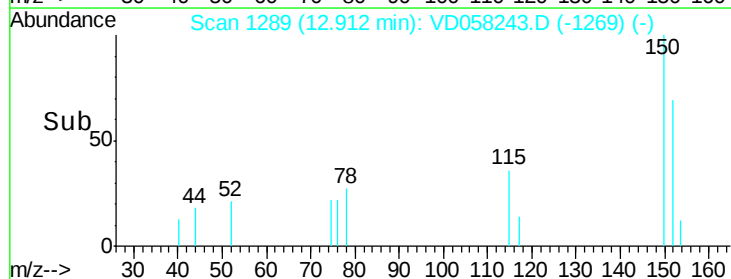
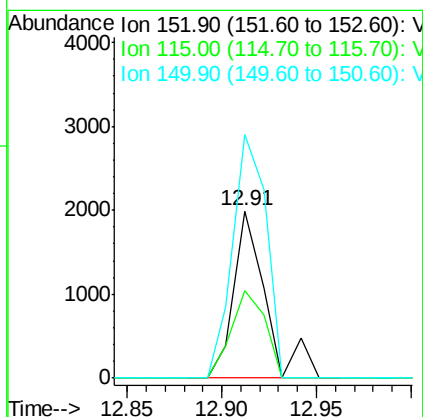
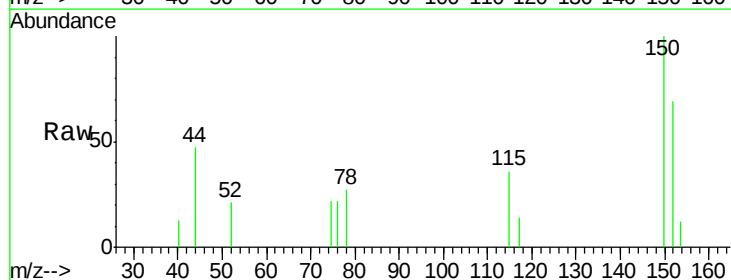
Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-8

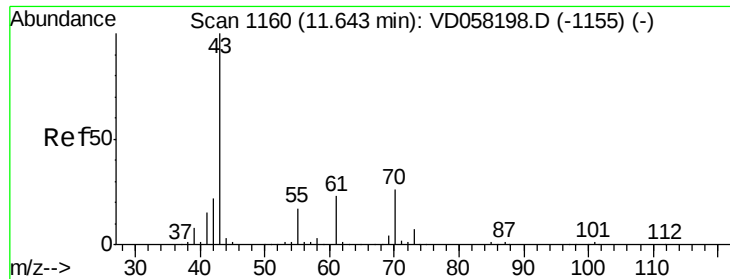
Tot Ion:117 Resp: 9279
Ion Ratio Lower Upper
117 100
82 60.8 47.0 70.6
119 39.9 25.3 37.9#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.91 min Scan# 1289
Delta R.T. -0.00 min
Lab File: VD058243.D
Acq: 21 Jun 2018 8:49

Tgt Ion:152 Resp: 2319
Ion Ratio Lower Upper
152 100
115 52.4 25.1 75.3
150 145.7 0.0 308.8





#74

N-amvl acetate

Concen: 6.21 ug/l

RT: 11.56 min Scan# 1152

Delta R.T. -0.08 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-8

Tot Ion: 43 Resp: 333

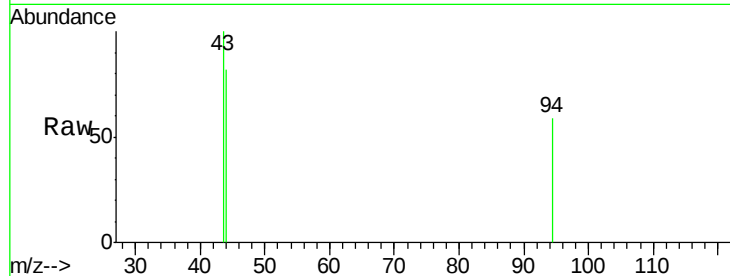
Ion Ratio Lower Upper

43 100

70 0.0 20.9 31.3#

55 0.0 13.5 20.3#

61 0.0 18.2 27.2#

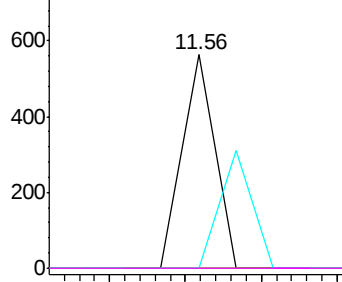


Abundance Ion 42.95 (42.65 to 43.65): VDC

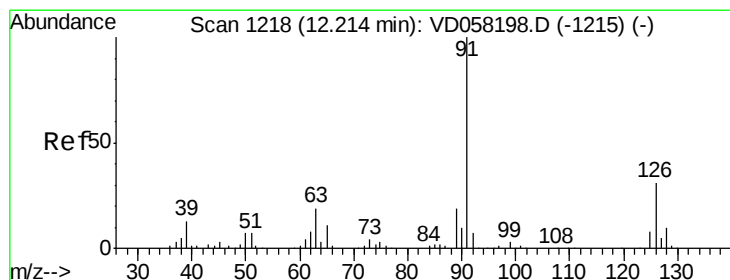
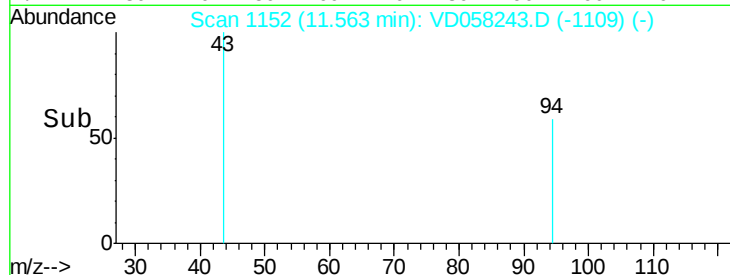
Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



Time-->



#79

2-Chlorotoluene

Concen: 2.28 ug/l

RT: 12.34 min Scan# 1231

Delta R.T. 0.13 min

Lab File: VD058243.D

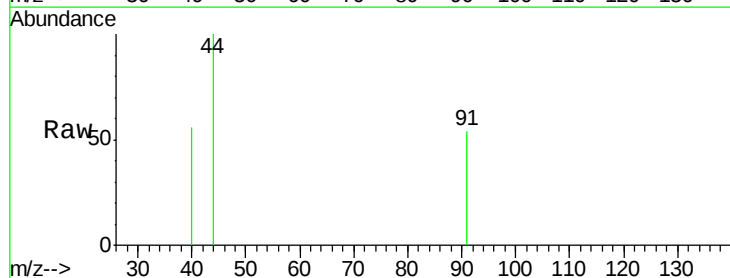
Acq: 21 Jun 2018 8:49

Tgt Ion: 91 Resp: 234

Ion Ratio Lower Upper

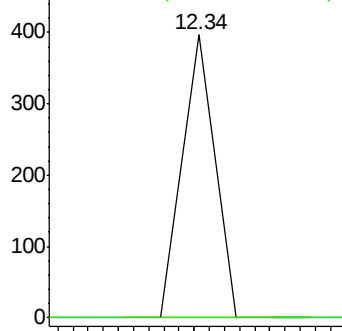
91 100

126 0.0 14.9 44.5#

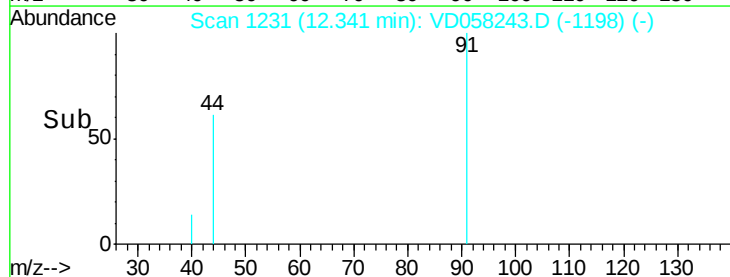


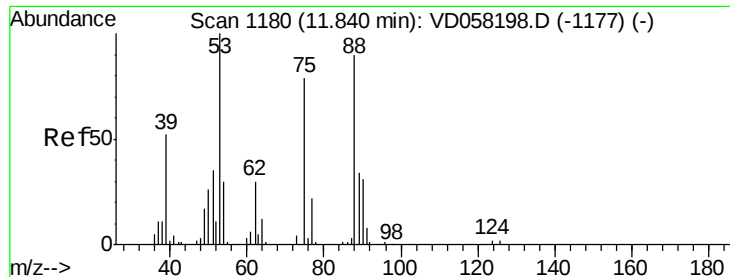
Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 176.20 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-8

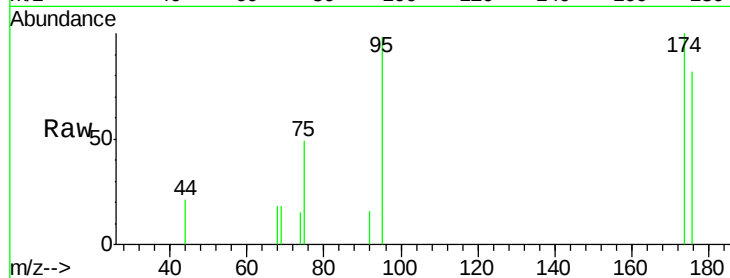
Tot Ion: 75 Resp: 1455

Ion Ratio Lower Upper

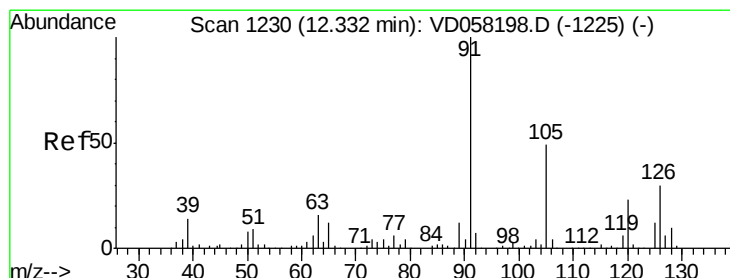
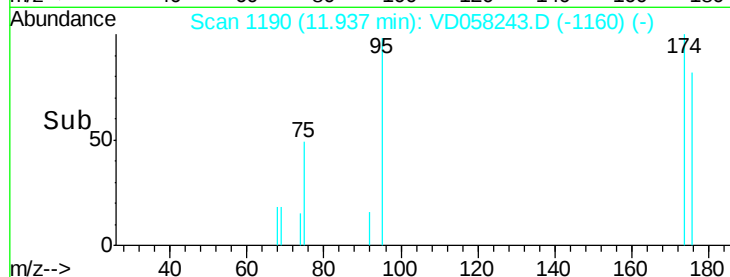
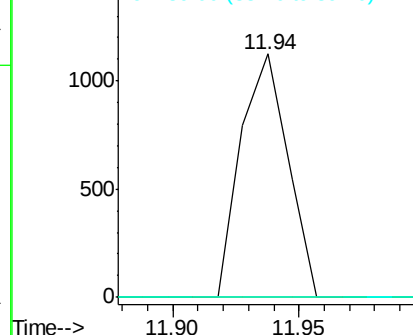
75 100

53 0.0 100.8 151.2#

89 0.0 34.6 52.0#



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: Below Cal

RT: 12.34 min Scan# 1231

Delta R.T. 0.01 min

Lab File: VD058243.D

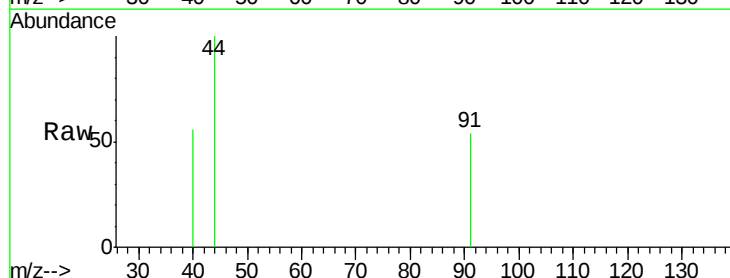
Acq: 21 Jun 2018 8:49

Tgt Ion: 91 Resp: 234

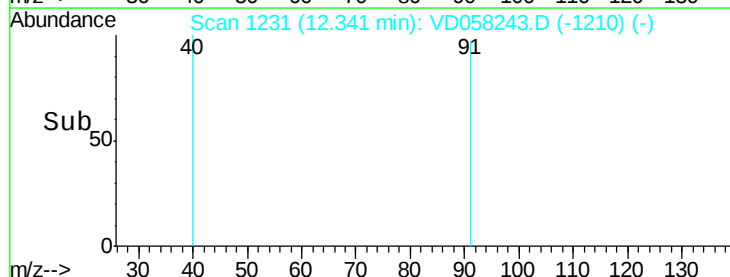
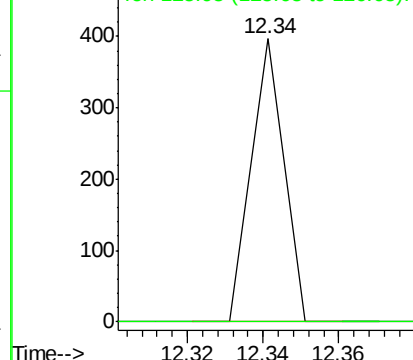
Ion Ratio Lower Upper

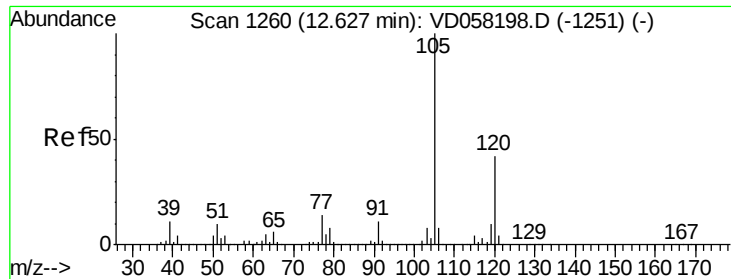
91 100

126 0.0 14.9 44.9#



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: 1.72 ug/l

RT: 12.63 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

Instrument :

MSVOA_D

ClientSampleId :

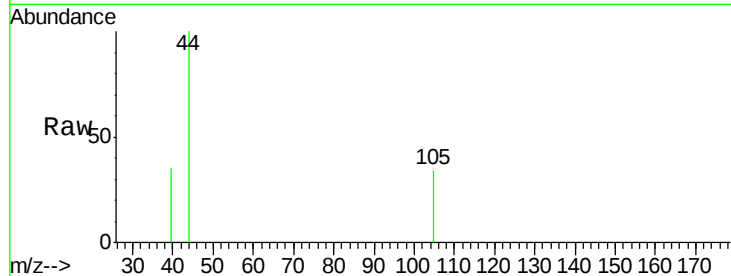
26KV-TP-8

Tot Ion:105 Resp: 202

Ion Ratio Lower Upper

105 100

120 0.0 20.8 62.4#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

12.63

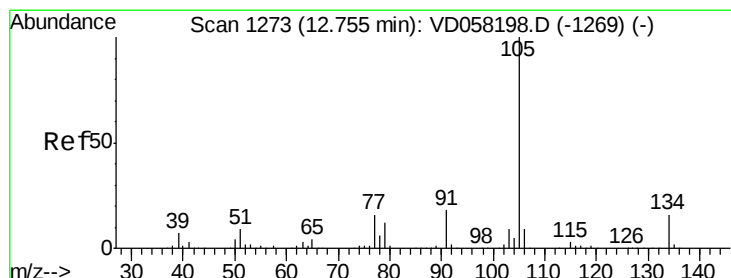
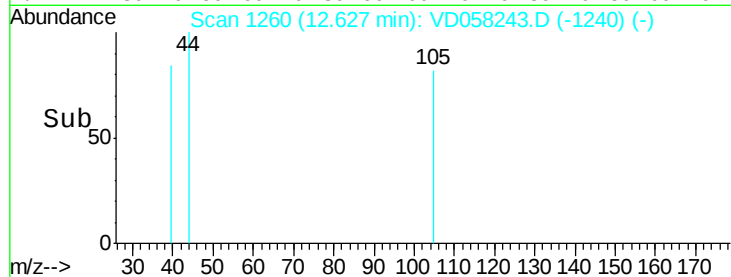
300

200

100

0

Time-->



#85

sec-Butylbenzene

Concen: 1.39 ug/l

RT: 12.63 min Scan# 1260

Delta R.T. -0.13 min

Lab File: VD058243.D

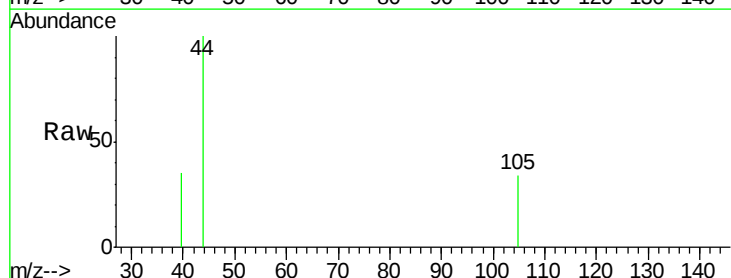
Acq: 21 Jun 2018 8:49

Tgt Ion:105 Resp: 202

Ion Ratio Lower Upper

105 100

134 0.0 8.1 24.3#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

12.63

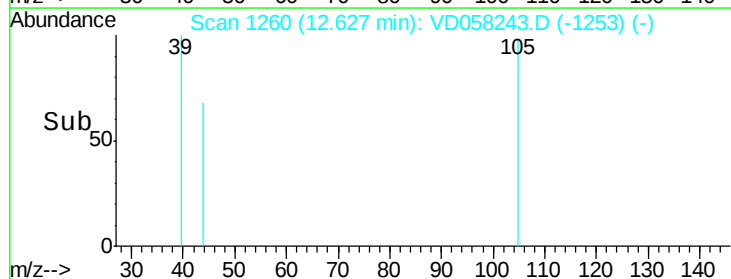
300

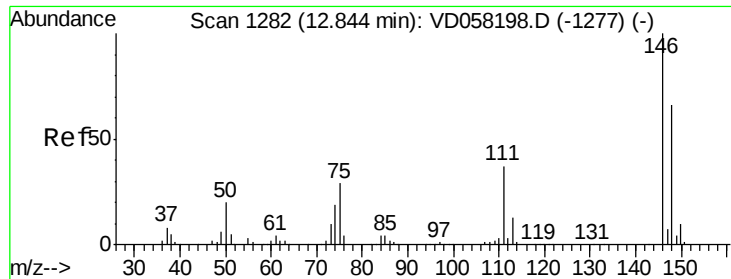
200

100

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 2.51 ug/l

RT: 12.85 min Scan# 1283

Delta R.T. 0.01 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-8

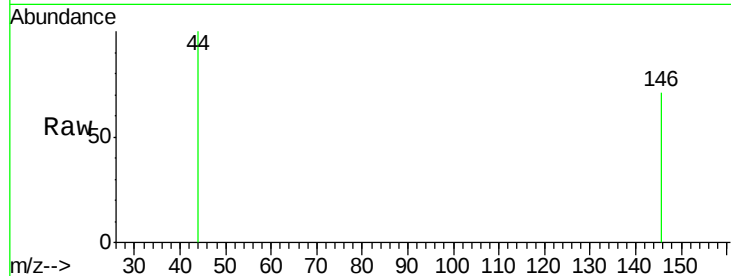
Tot Ion:146 Resp: 181

Ion Ratio Lower Upper

146 100

111 0.0 18.4 55.0#

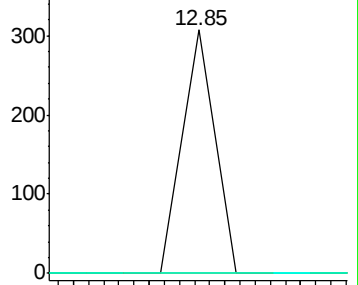
148 0.0 32.8 98.4#



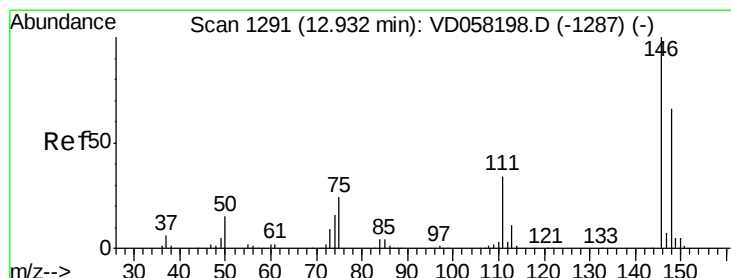
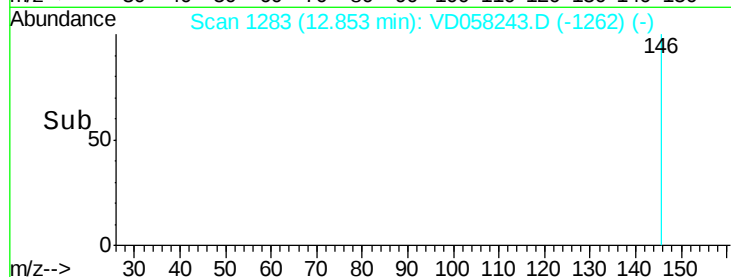
Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



Time-->



#88

1,4-Dichlorobenzene

Concen: 2.57 ug/l

RT: 12.85 min Scan# 1283

Delta R.T. -0.08 min

Lab File: VD058243.D

Acq: 21 Jun 2018 8:49

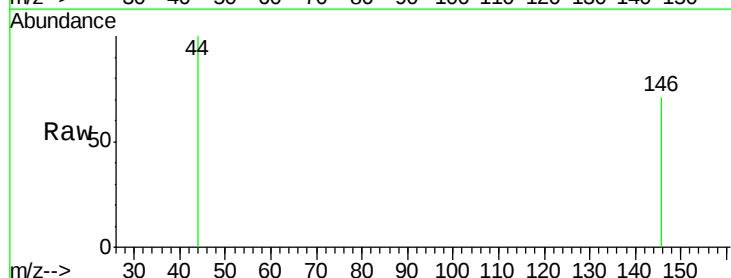
Tgt Ion:146 Resp: 181

Ion Ratio Lower Upper

146 100

111 0.0 17.2 51.5#

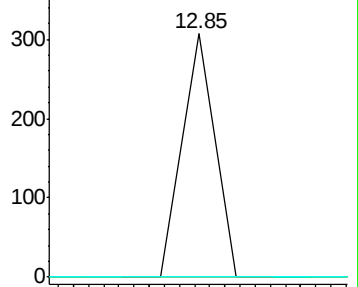
148 0.0 33.1 99.3#



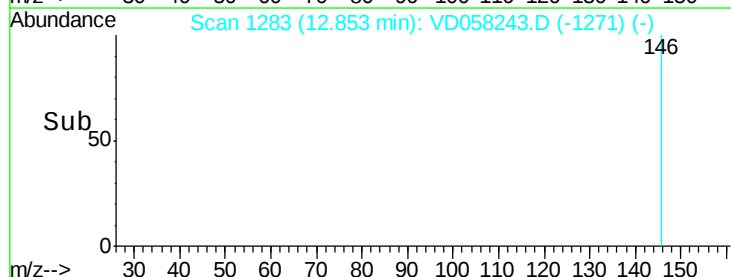
Abundance Ion 145.95 (145.65 to 146.65): V

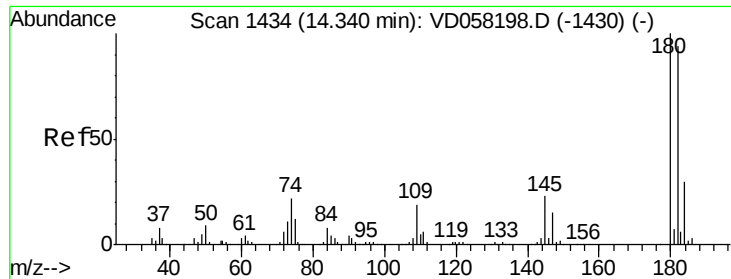
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



Time-->

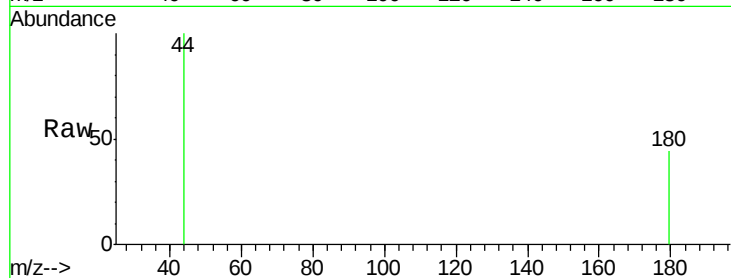




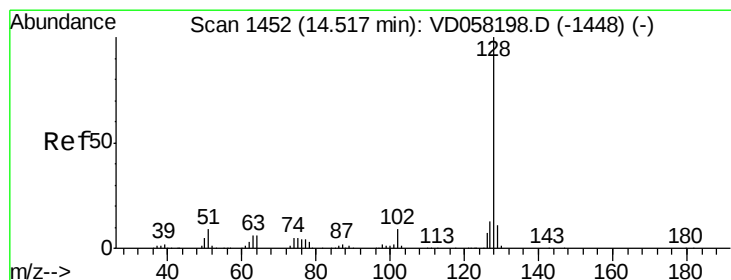
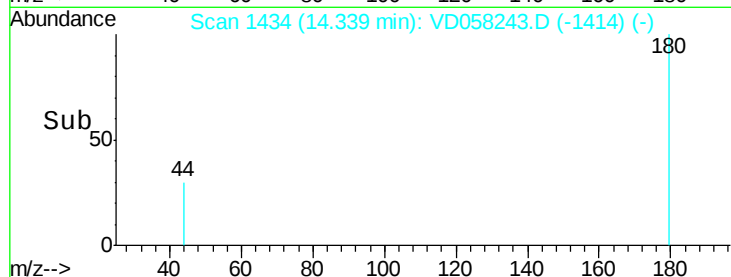
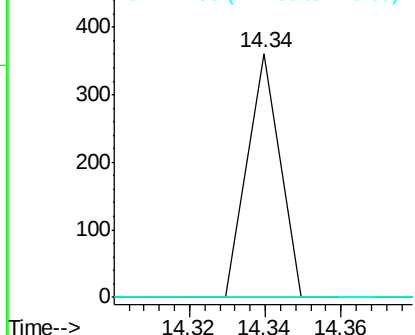
#93
 1,2,4-Trichlorobenzene
 Concen: 3.62 ug/l
 RT: 14.34 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VD058243.D
 Acq: 21 Jun 2018 8:49

Instrument :
 MSVOA_D
 ClientSampleId :
 26KV-TP-8

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.1	141.3#
145	0.0	11.7	35.0#

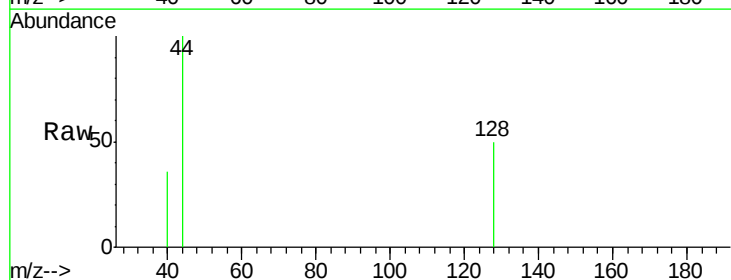


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 6.37 ug/l
 RT: 14.53 min Scan# 1453
 Delta R.T. 0.01 min
 Lab File: VD058243.D
 Acq: 21 Jun 2018 8:49

Tgt 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

