

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD111618\
 Data File : VD060391.D
 Acq On : 16 Nov 2018 11:40
 Operator : JC/SY
 Sample : VD1116SBL01
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1116SBL01

Quant Time: Nov 16 13:25:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 06 13:56:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.44	168	1623724	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	7.47	114	2213699	50.00	ug/l	0.01
63) Chlorobenzene-d5	11.30	117	1798118	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	884115	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.81	65	568397	48.89	ug/l	0.01
Spiked Amount	50.000		Recovery	=	97.78%	
35) Dibromofluoromethane	6.35	113	819829	49.67	ug/l	0.01
Spiked Amount	50.000		Recovery	=	99.34%	
50) Toluene-d8	9.48	98	2378649	49.23	ug/l	0.01
Spiked Amount	50.000		Recovery	=	98.46%	
62) 4-Bromofluorobenzene	12.44	95	852576	48.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.40%	

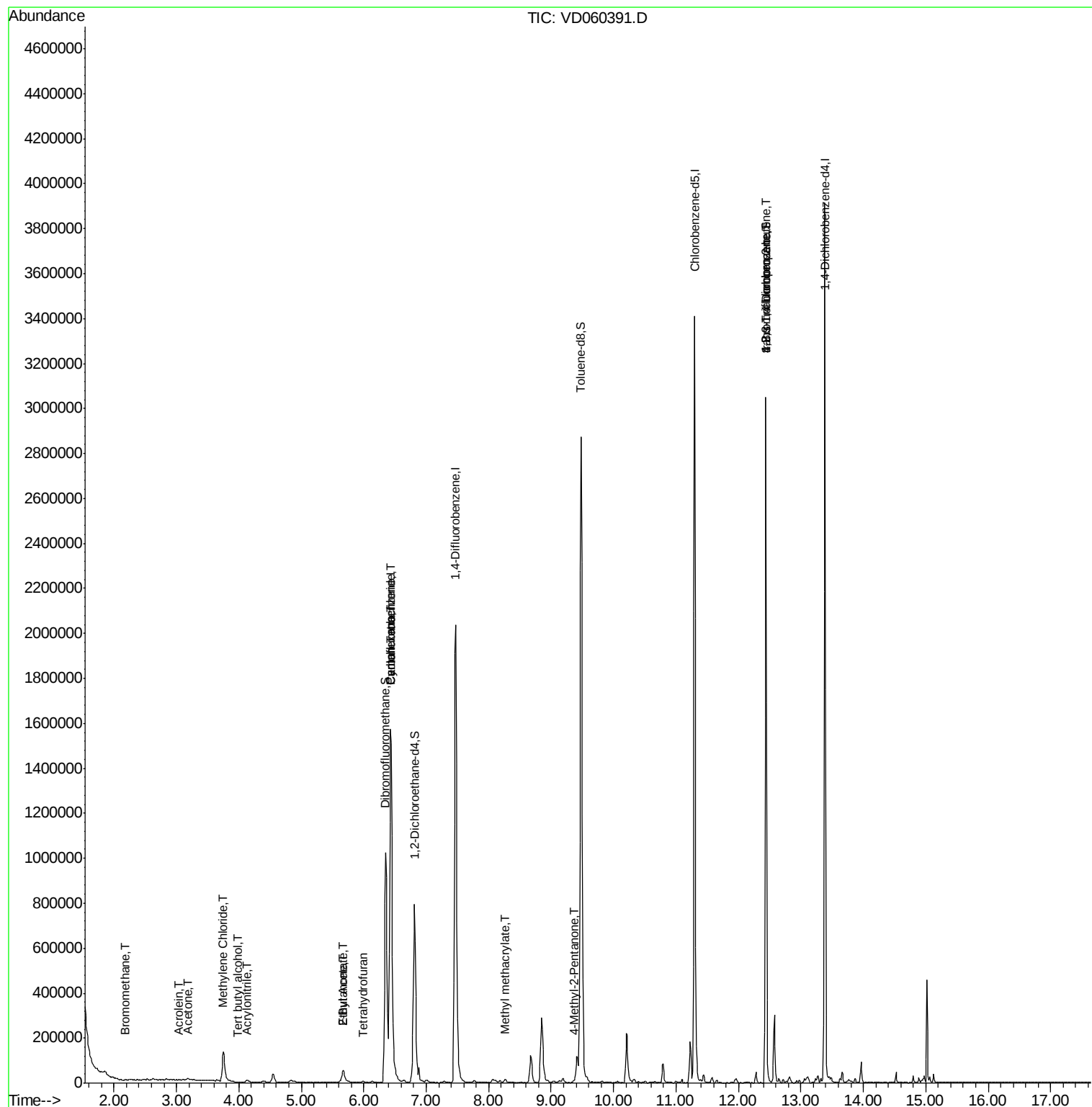
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.61	85	4010	Below Cal		99
5) Bromomethane	2.18	94	4451	1.49 ug/l	#	51
11) Tert butyl alcohol	3.98	59	1729	3.62 ug/l	#	70
13) Acrolein	3.03	56	1075	1.91 ug/l	#	65
15) Acrylonitrile	4.11	53	3129	1.12 ug/l		92
16) Acetone	3.19	43	18991	9.42 ug/l		99
20) Methylene Chloride	3.75	84	89553	5.01 ug/l		96
25) 2-Butanone	5.66	43	12831	3.06 ug/l		99
29) Tetrahydrofuran	5.98	42	5563	2.52 ug/l	#	86
31) Cyclohexane	6.43	56	33159	1.19 ug/l	#	1
37) Ethyl Acetate	5.66	43	12831	1.27 ug/l	#	85
38) Carbon Tetrachloride	6.43	117	128218	6.32 ug/l	#	16
48) Methyl methacrylate	8.27	41	8204	1.07 ug/l	#	62
51) 4-Methyl-2-Pentanone	9.36	43	10668	1.30 ug/l		100
76) 1,2,3-Trichloropropane	12.44	75	319287	30.19 ug/l	#	45
81) trans-1,4-Dichloro-2-buten	12.44	75	336790	111.85 ug/l	#	15
89) n-Butylbenzene	13.66	91	11679	Below Cal		98

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.44 min Scan# 499

Delta R.T. 0.01 min

Lab File: VD060391.D

Acq: 16 Nov 2018 11:40

Instrument :

MSVOA_D

ClientSampleId :

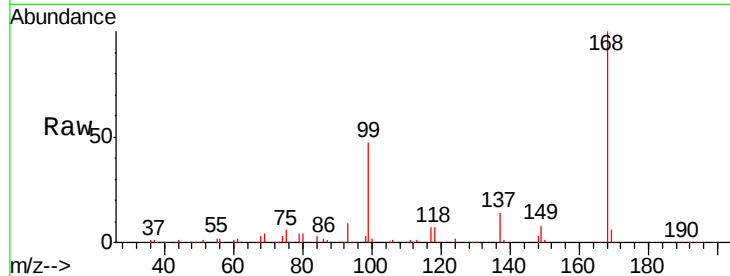
VD1116SBL01

Tgt Ion:168 Resp: 1623724

Ion Ratio Lower Upper

168 100

99 47.3 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.44

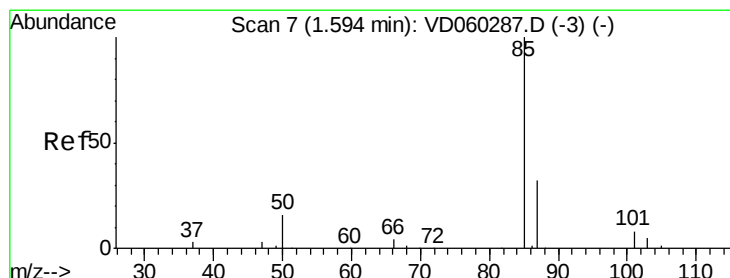
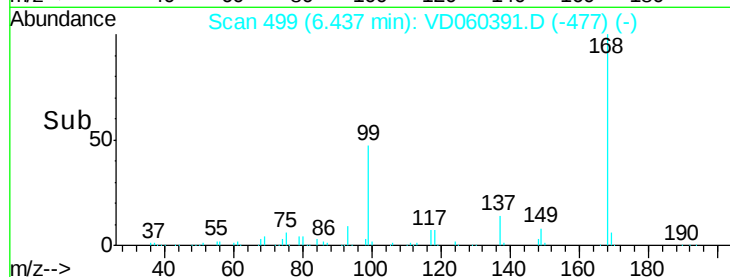
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.61 min Scan# 8

Delta R.T. 0.01 min

Lab File: VD060391.D

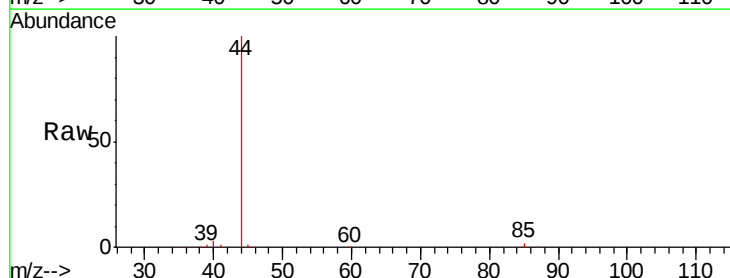
Acq: 16 Nov 2018 11:40

Tgt Ion: 85 Resp: 4010

Ion Ratio Lower Upper

85 100

87 32.9 16.8 50.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.61

2000

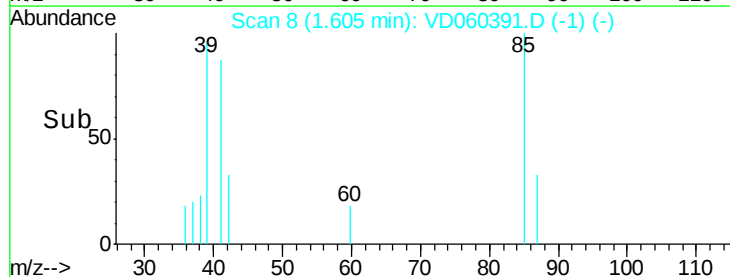
1500

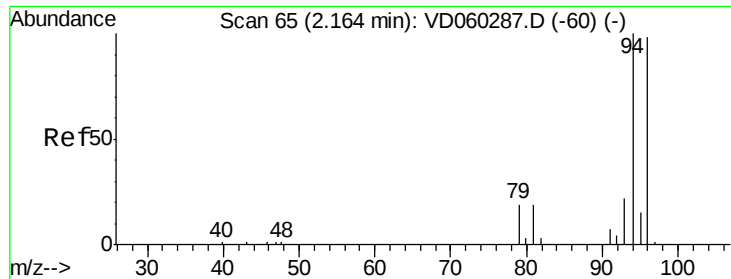
1000

500

0

Time-->

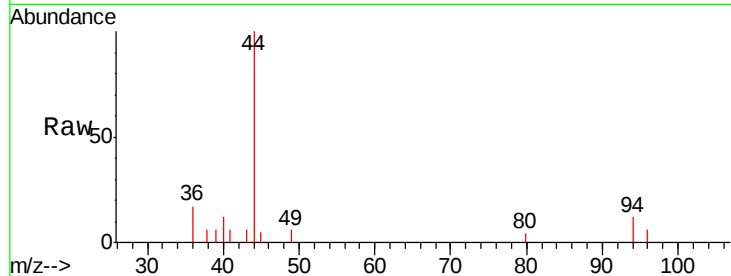




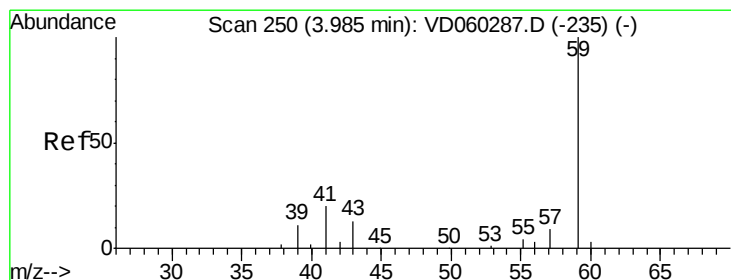
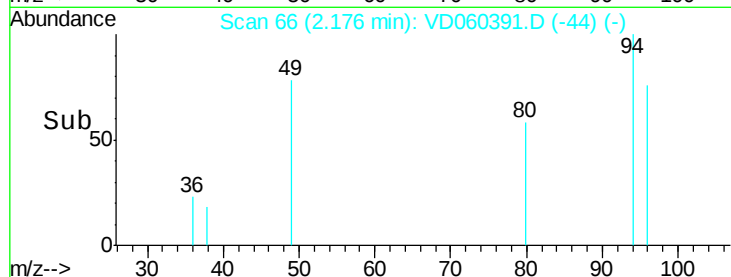
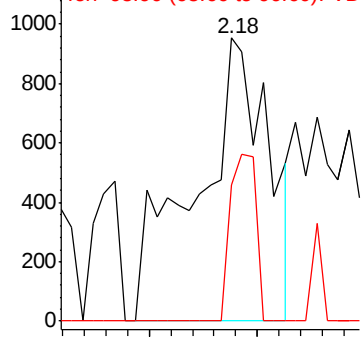
#5
Bromomethane
Concen: 1.49 ug/l
RT: 2.18 min Scan# 66
Delta R.T. 0.01 min
Lab File: VD060391.D
Acq: 16 Nov 2018 11:40

Instrument :
MSVOA_D
ClientSampleId :
VD1116SBL01

Tgt Ion: 94 Resp: 4451
Ion Ratio Lower Upper
94 100
96 48.0 76.6 114.8#

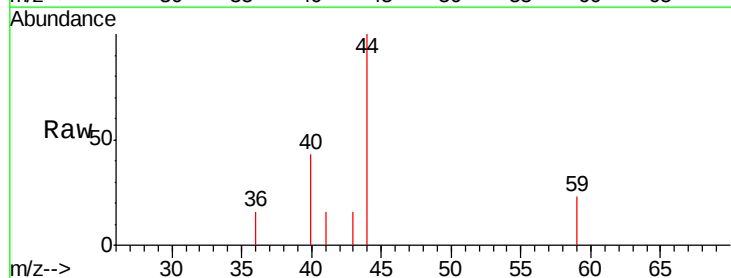


Abundance Ion 93.90 (93.60 to 94.60): VDC
Ion 95.90 (95.60 to 96.60): VDC

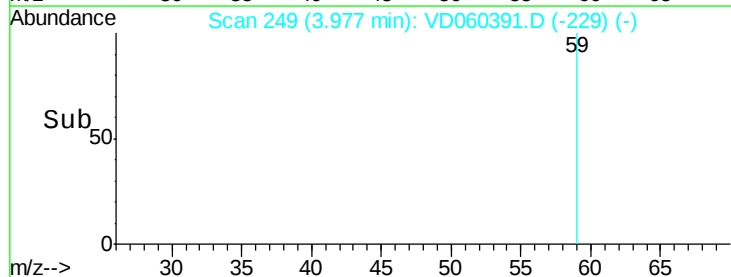
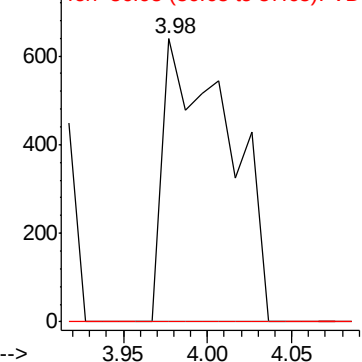


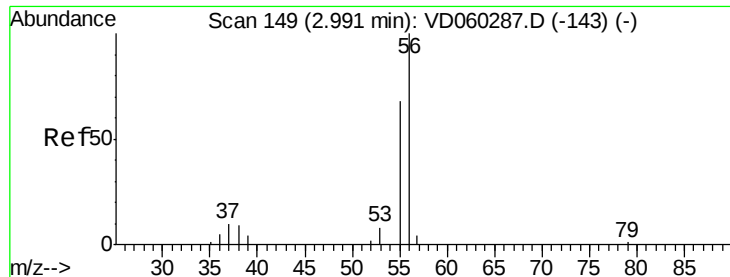
#11
Tert butyl alcohol
Concen: 3.62 ug/l
RT: 3.98 min Scan# 249
Delta R.T. -0.01 min
Lab File: VD060391.D
Acq: 16 Nov 2018 11:40

Tgt Ion: 59 Resp: 1729
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#



Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.91 ug/l

RT: 3.03 min Scan# 153

Delta R.T. 0.04 min

Lab File: VD060391.D

Acq: 16 Nov 2018 11:40

Instrument :

MSVOA_D

ClientSampleId :

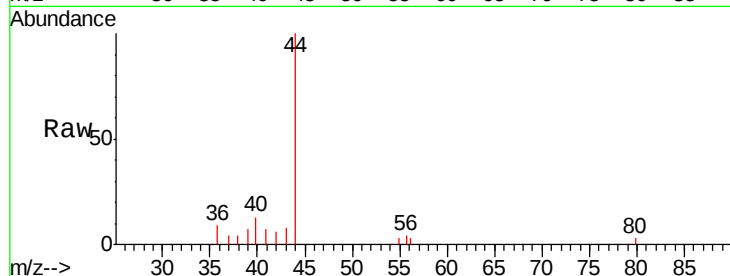
VD1116SBL01

Tgt Ion: 56 Resp: 1075

Ion Ratio Lower Upper

56 100

55 100.6 57.0 85.6#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.03

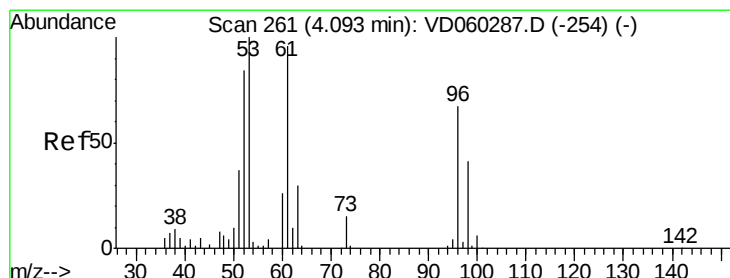
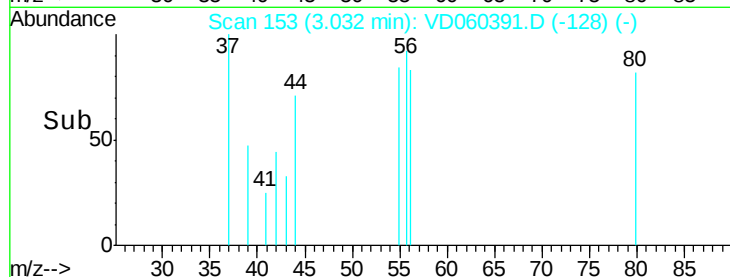
600

400

200

0

Time--> 2.95 3.00 3.05



#15

Acrylonitrile

Concen: 1.12 ug/l

RT: 4.11 min Scan# 263

Delta R.T. 0.02 min

Lab File: VD060391.D

Acq: 16 Nov 2018 11:40

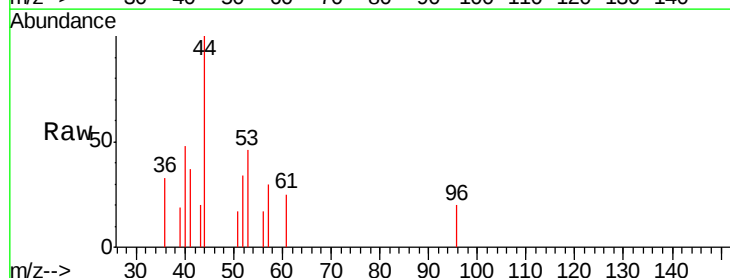
Tgt Ion: 53 Resp: 3129

Ion Ratio Lower Upper

53 100

52 74.0 67.0 100.4

51 37.6 29.9 44.9



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC

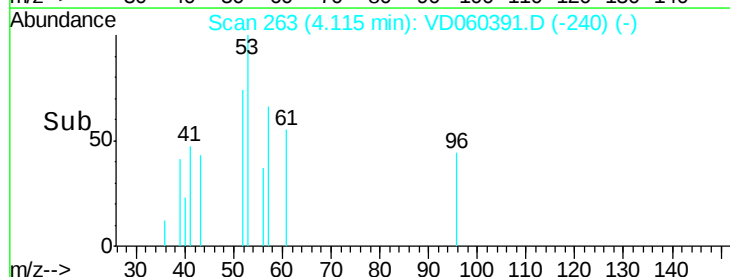
1500

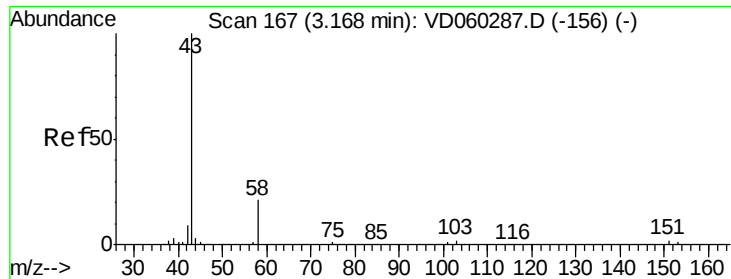
1000

500

0

Time--> 4.05 4.10 4.15 4.20





#16

Acetone

Concen: 9.42 ug/l

RT: 3.19 min Scan# 169

Delta R.T. 0.02 min

Lab File: VD060391.D

Acq: 16 Nov 2018 11:40

Instrument :

MSVOA_D

ClientSampleId :

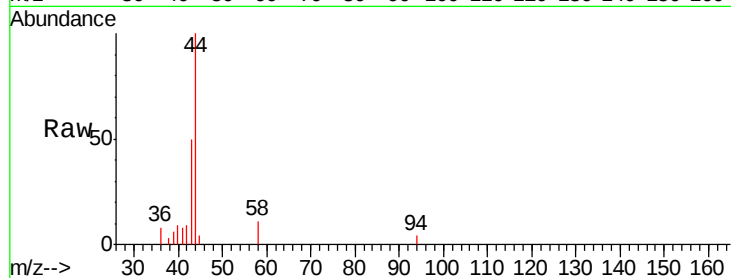
VD1116SBL01

Tgt Ion: 43 Resp: 18991

Ion Ratio Lower Upper

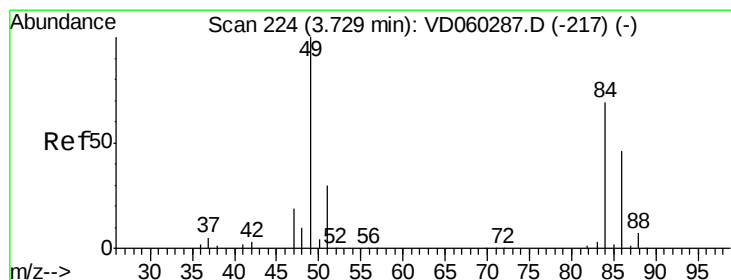
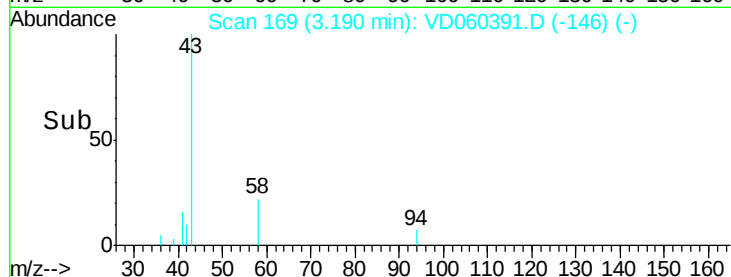
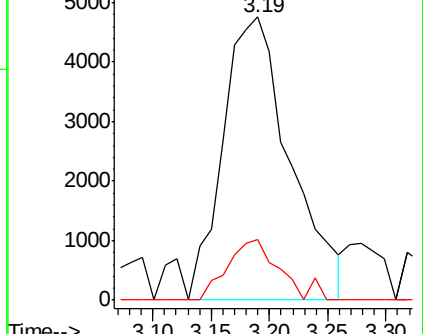
43 100

58 21.6 16.9 25.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 5.01 ug/l

RT: 3.75 min Scan# 226

Delta R.T. 0.02 min

Lab File: VD060391.D

Acq: 16 Nov 2018 11:40

Tgt Ion: 84 Resp: 89553

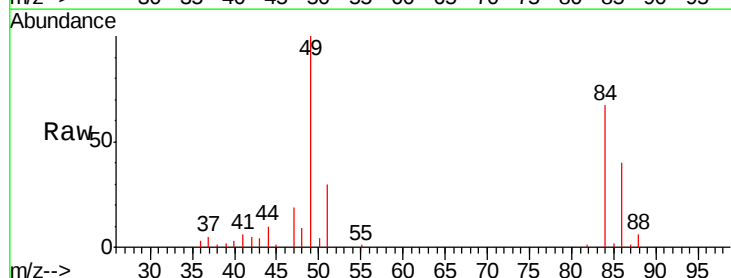
Ion Ratio Lower Upper

84 100

49 148.4 115.6 173.4

51 44.8 35.6 53.4

86 59.9 52.3 78.5

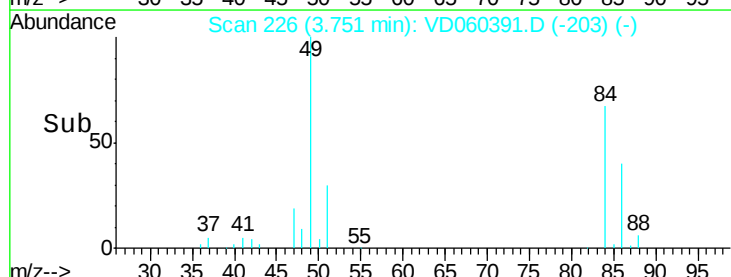
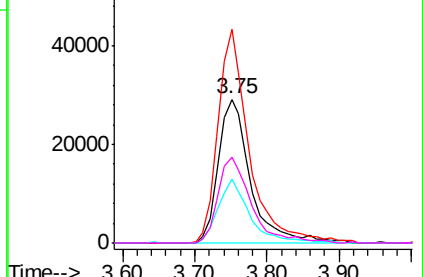


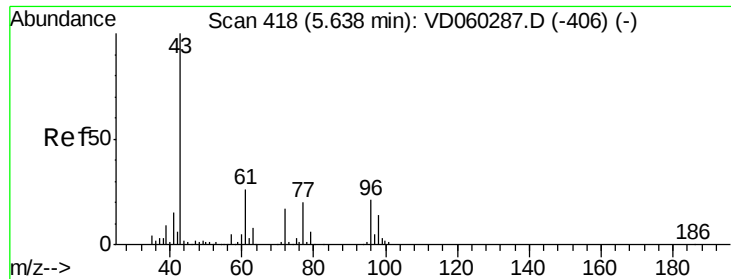
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 3.06 ug/l

RT: 5.66 min Scan# 420

Delta R.T. 0.02 min

Lab File: VD060391.D

Acq: 16 Nov 2018 11:40

Instrument :

MSVOA_D

ClientSampleId :

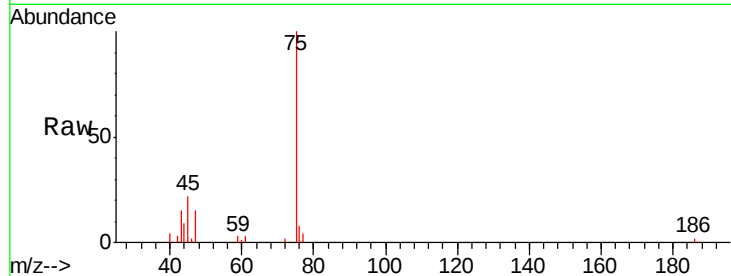
VD1116SBL01

Tgt Ion: 43 Resp: 12831

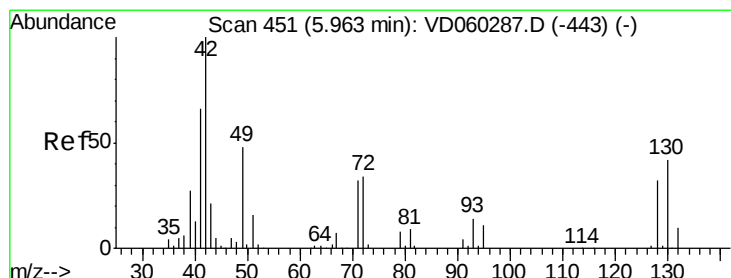
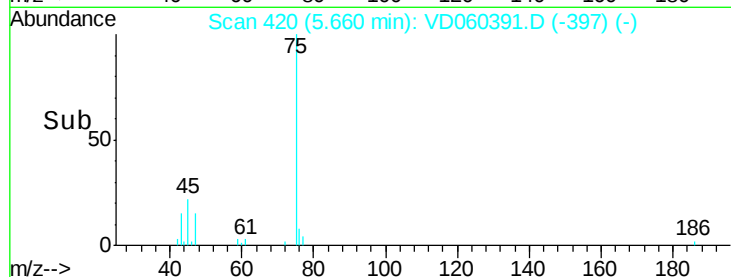
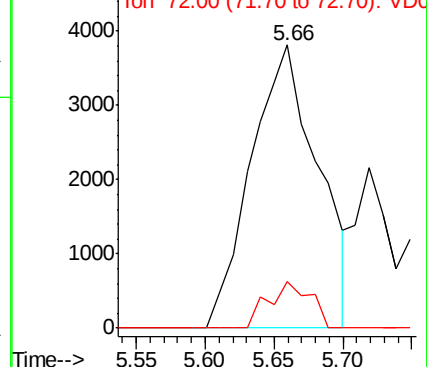
Ion Ratio Lower Upper

43 100

72 16.7 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC



#29

Tetrahydrofuran

Concen: 2.52 ug/l

RT: 5.98 min Scan# 453

Delta R.T. 0.02 min

Lab File: VD060391.D

Acq: 16 Nov 2018 11:40

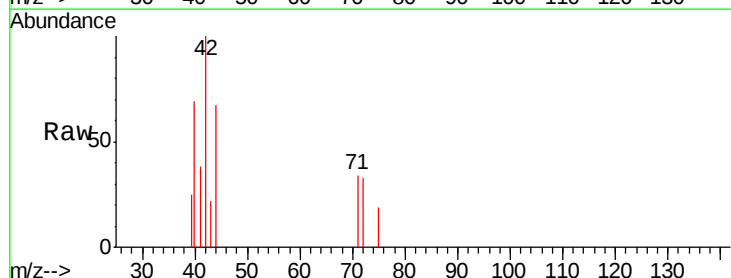
Tgt Ion: 42 Resp: 5563

Ion Ratio Lower Upper

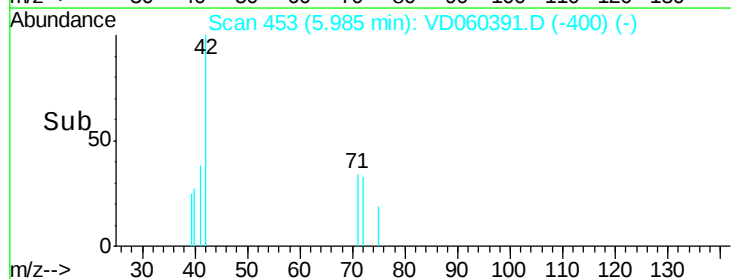
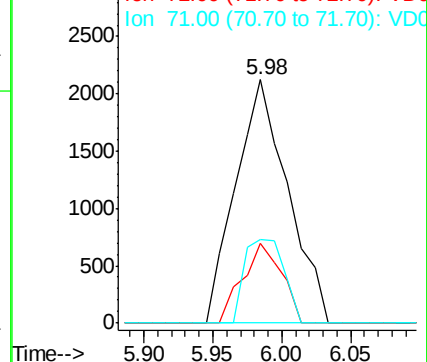
42 100

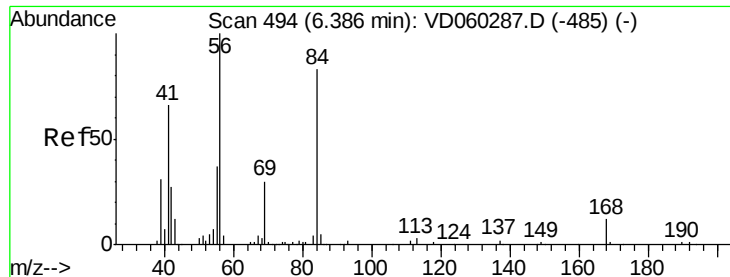
72 24.8 27.6 41.4#

71 26.3 26.5 39.7#



Abundance Ion 42.00 (41.70 to 42.70): VDC

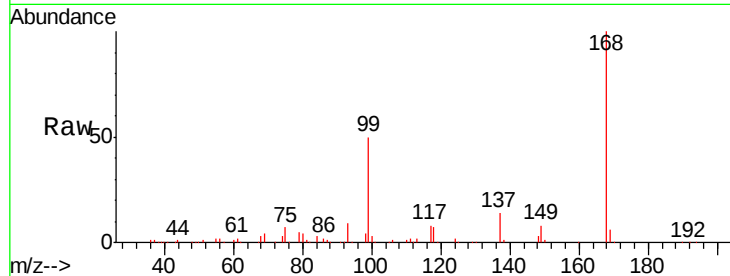




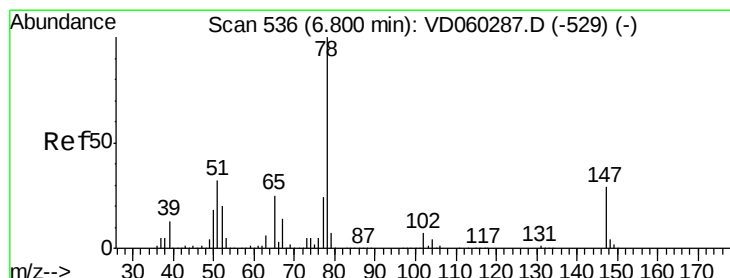
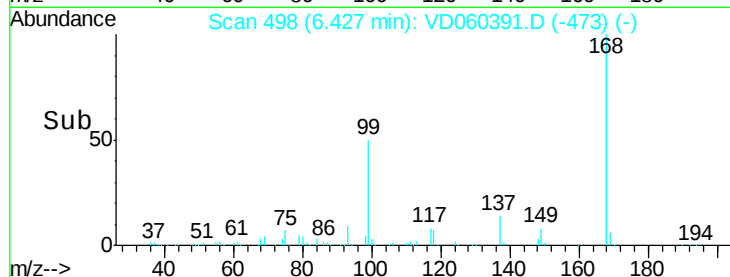
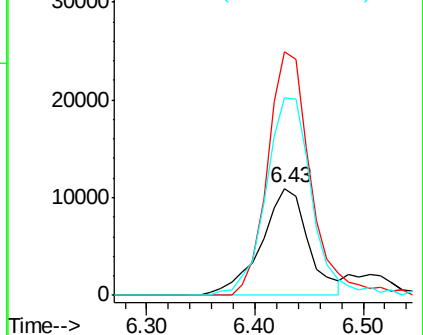
#31
Cyclohexane
Concen: 1.19 ug/l
RT: 6.43 min Scan# 498
Delta R.T. 0.04 min
Lab File: VD060391.D
Acq: 16 Nov 2018 11:40

Instrument :
MSVOA_D
ClientSampleId :
VD1116SBL01

Tgt Ion	Resp	Lower	Upper
56	100		
69	227.3	22.2	33.2#
84	184.0	63.0	94.4#

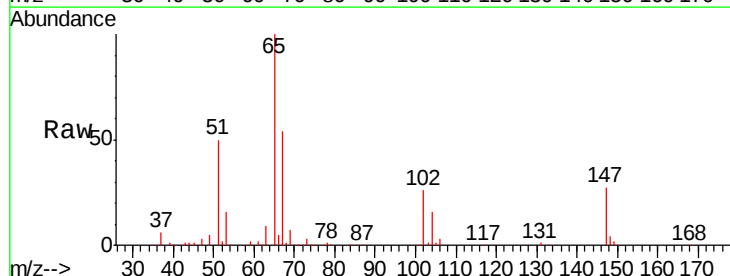


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

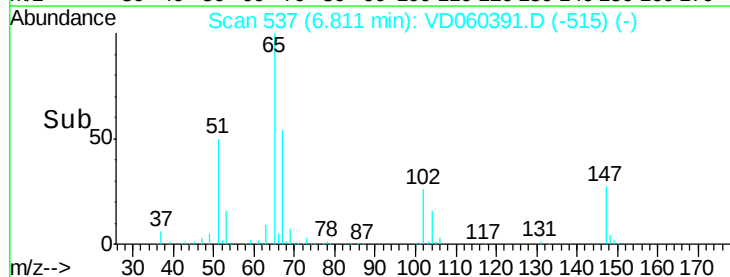
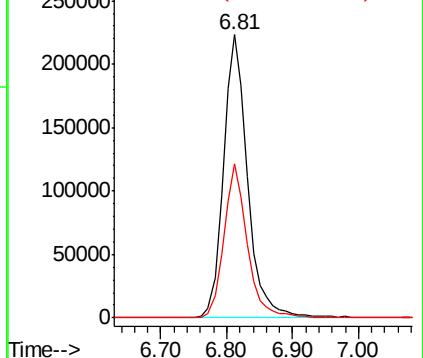


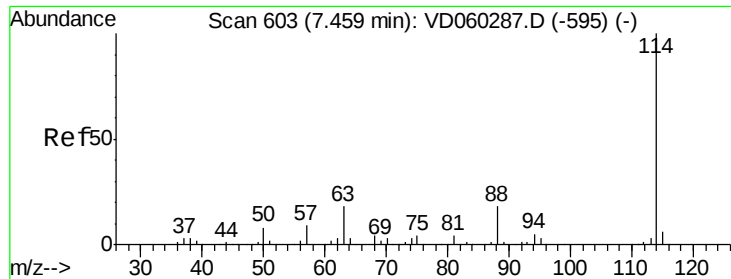
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.81 min Scan# 537
Delta R.T. 0.01 min
Lab File: VD060391.D
Acq: 16 Nov 2018 11:40

Tgt Ion	Resp	Lower	Upper
65	100		
67	54.3	0.0	109.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

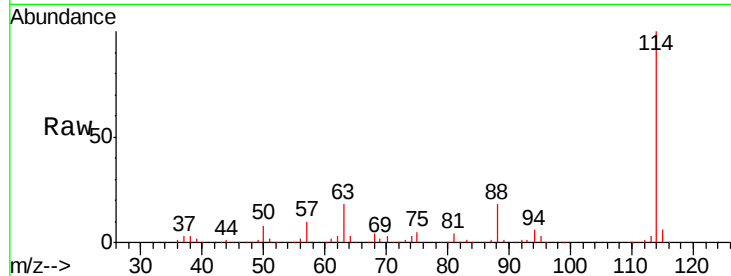




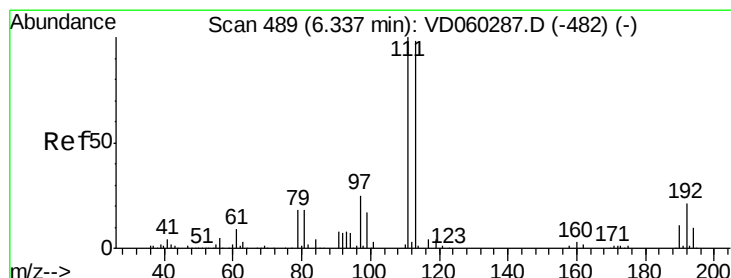
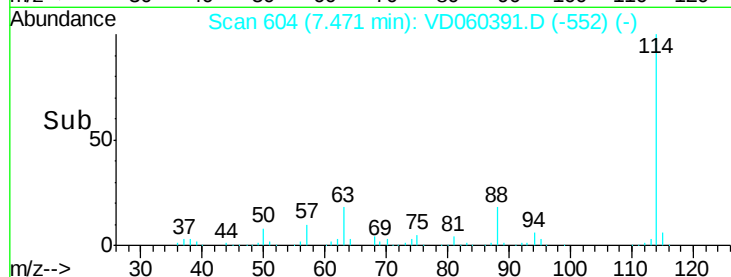
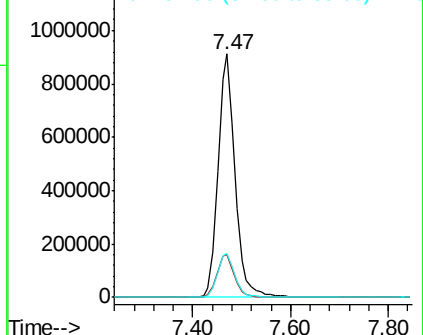
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.47 min Scan# 604
 Delta R.T. 0.01 min
 Lab File: VD060391.D
 Acq: 16 Nov 2018 11:40

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1116SBL01

Tgt Ion:114 Resp: 2213699
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 34.0
 88 18.0 0.0 35.4

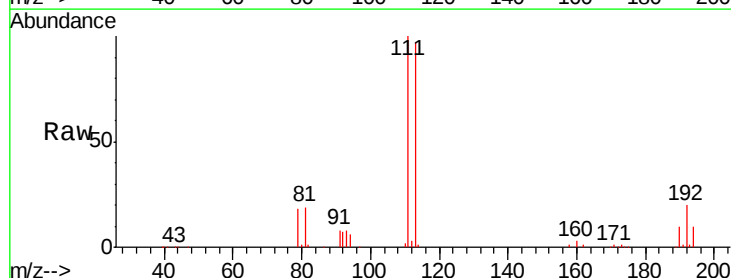


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

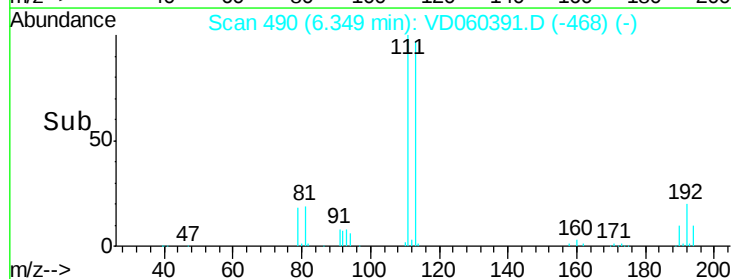
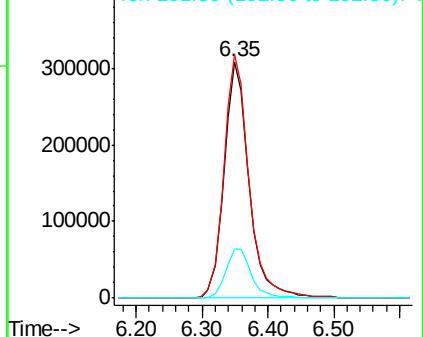


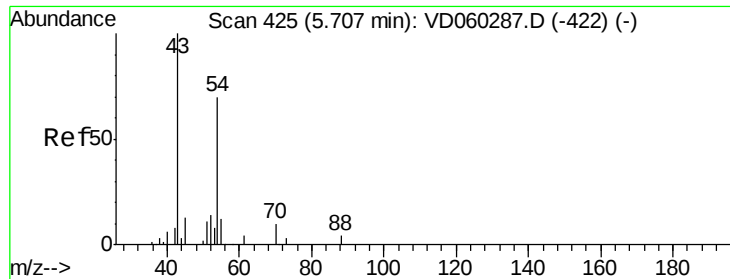
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.35 min Scan# 490
 Delta R.T. 0.01 min
 Lab File: VD060391.D
 Acq: 16 Nov 2018 11:40

Tgt Ion:113 Resp: 819829
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.6 122.4
 192 20.7 16.5 24.7



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

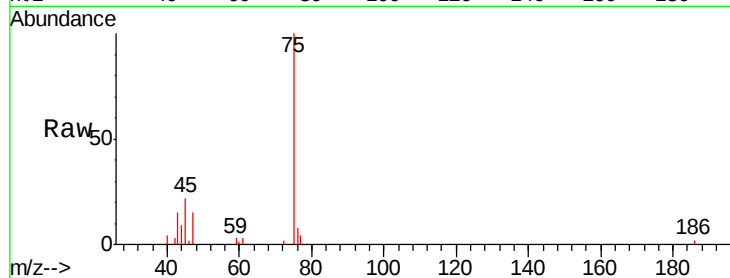




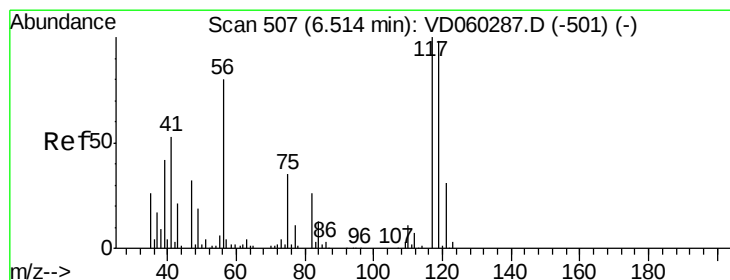
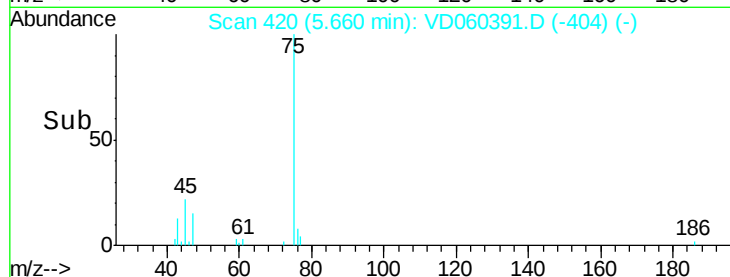
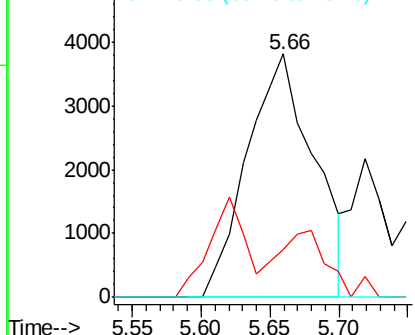
#37
Ethyl Acetate
Concen: 1.27 ug/l
RT: 5.66 min Scan# 420
Delta R.T. -0.05 min
Lab File: VD060391.D
Acq: 16 Nov 2018 11:40

Instrument :
MSVOA_D
ClientSampleId :
VD1116SBL01

Tgt Ion: 43 Resp: 12831
Ion Ratio Lower Upper
43 100
61 19.5 11.8 17.6#
70 0.0 6.2 9.4#

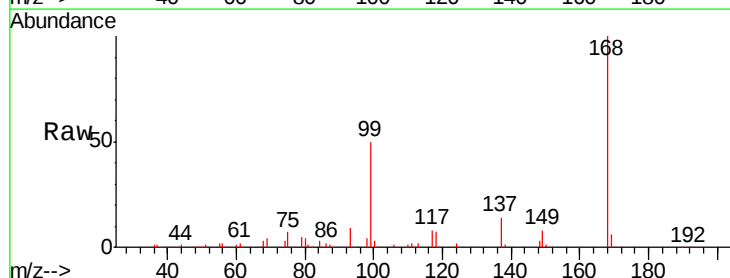


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

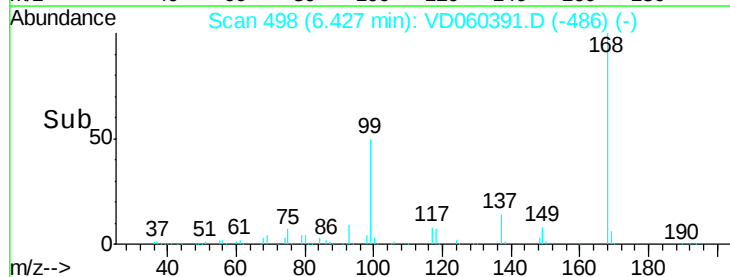
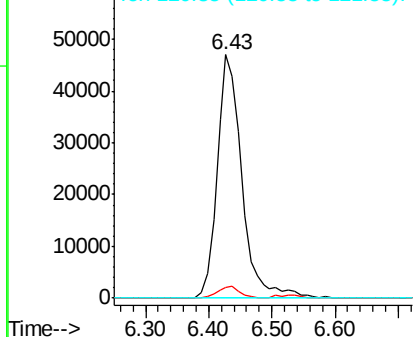


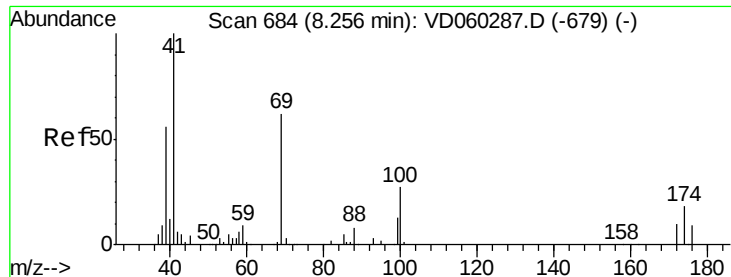
#38
Carbon Tetrachloride
Concen: 6.32 ug/l
RT: 6.43 min Scan# 498
Delta R.T. -0.09 min
Lab File: VD060391.D
Acq: 16 Nov 2018 11:40

Tgt Ion: 117 Resp: 128218
Ion Ratio Lower Upper
117 100
119 4.5 76.6 115.0#
121 0.0 24.3 36.5#



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





#48

Methyl methacrylate

Concen: 1.07 ug/l

RT: 8.27 min Scan# 685

Delta R.T. 0.01 min

Lab File: VD060391.D

Acq: 16 Nov 2018 11:40

Instrument :

MSVOA_D

ClientSampleId :

VD1116SBL01

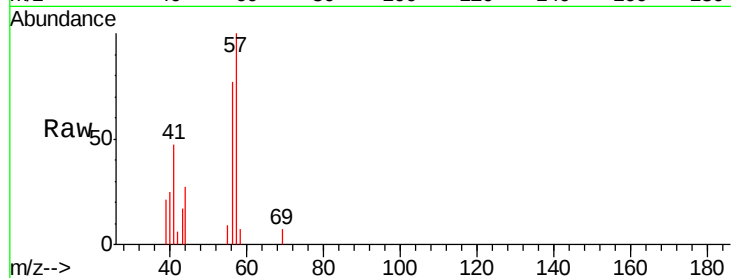
Tgt Ion: 41 Resp: 8204

Ion Ratio Lower Upper

41 100

69 15.0 47.0 70.4#

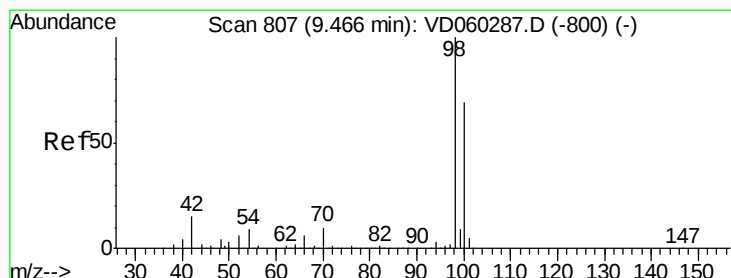
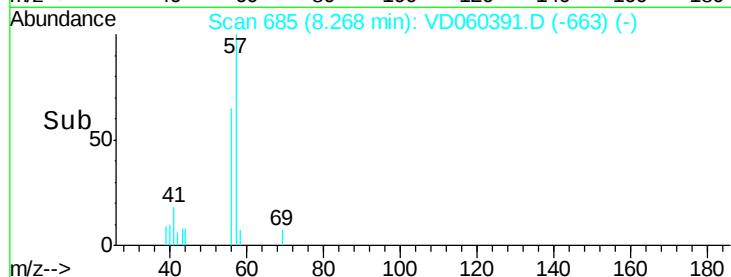
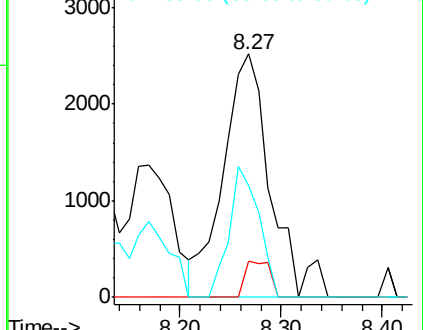
39 45.7 46.2 69.4#



Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.48 min Scan# 808

Delta R.T. 0.01 min

Lab File: VD060391.D

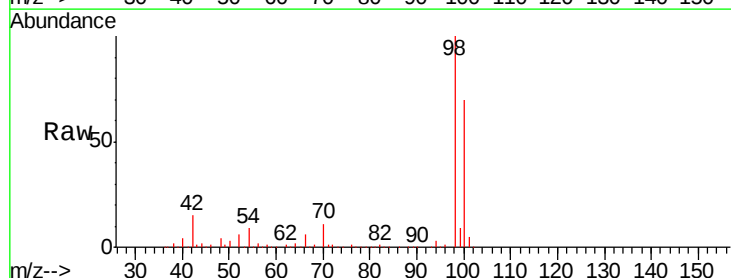
Acq: 16 Nov 2018 11:40

Tgt Ion: 98 Resp: 2378649

Ion Ratio Lower Upper

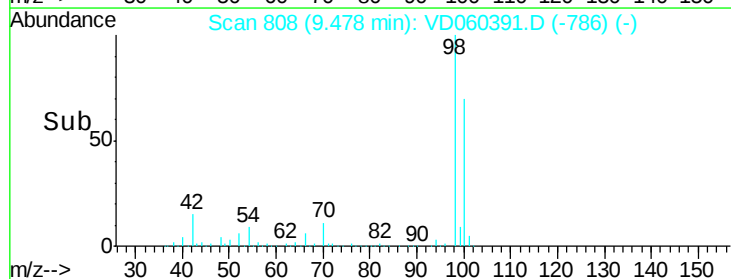
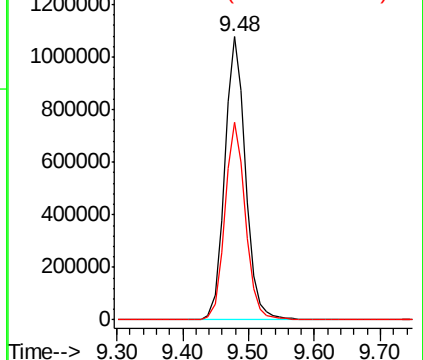
98 100

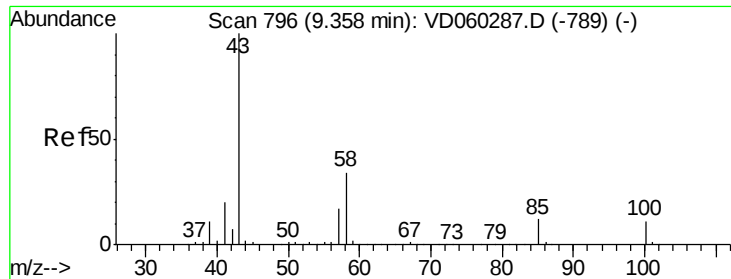
100 69.8 55.2 82.8



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: 1.30 ug/l

RT: 9.36 min Scan# 796

Delta R.T. 0.00 min

Lab File: VD060391.D

Acq: 16 Nov 2018 11:40

Instrument :

MSVOA_D

ClientSampleId :

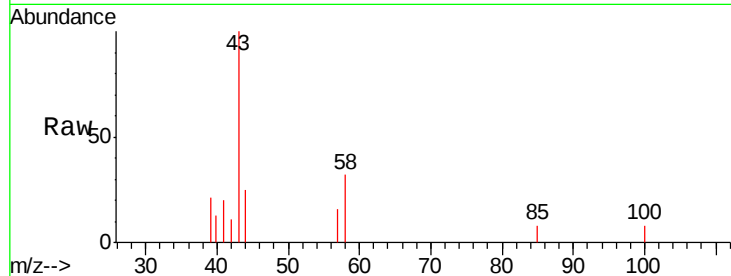
VD1116SBL01

Tgt Ion: 43 Resp: 10668

Ion Ratio Lower Upper

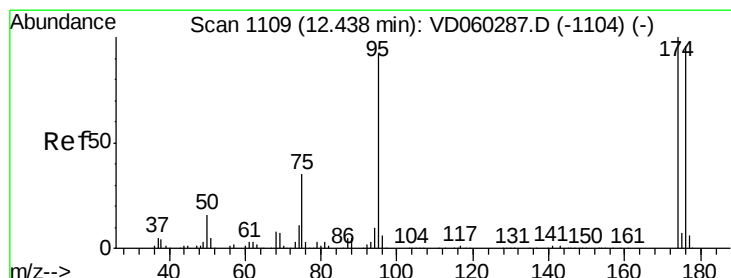
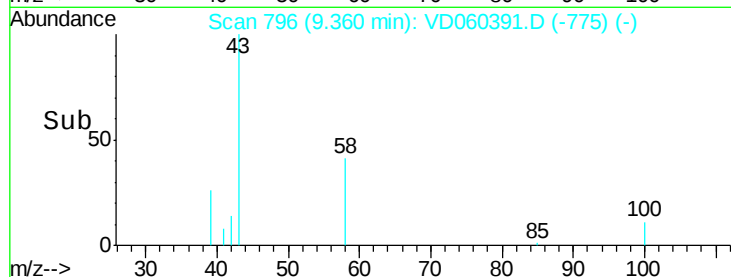
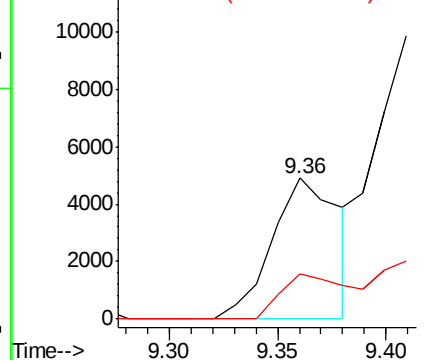
43 100

58 32.4 26.1 39.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.44 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VD060391.D

Acq: 16 Nov 2018 11:40

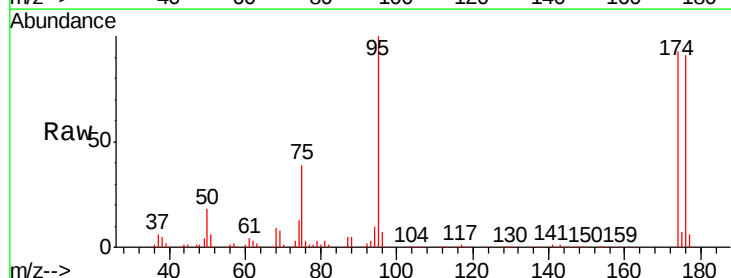
Tgt Ion: 95 Resp: 852576

Ion Ratio Lower Upper

95 100

174 93.0 0.0 160.8

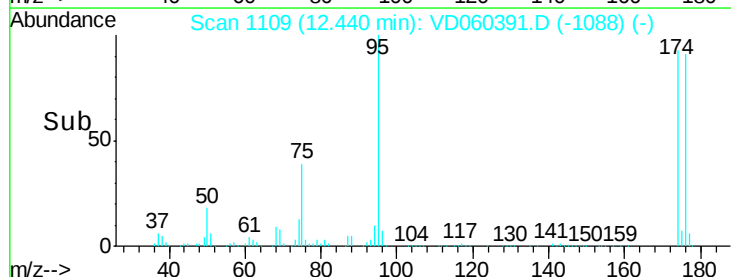
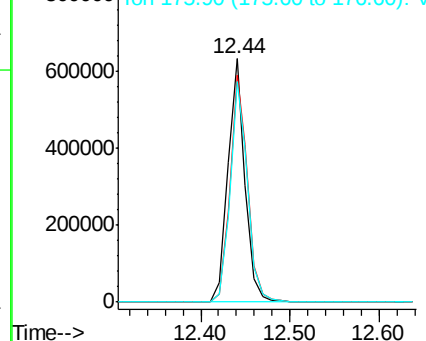
176 90.6 0.0 154.6

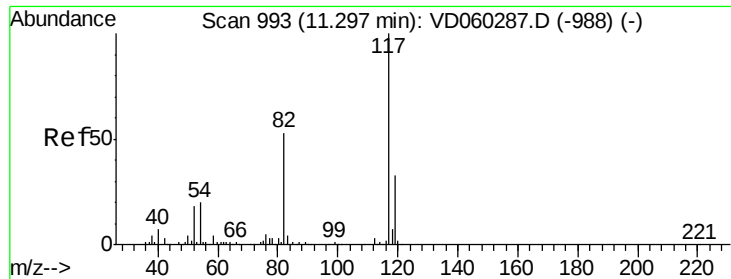


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

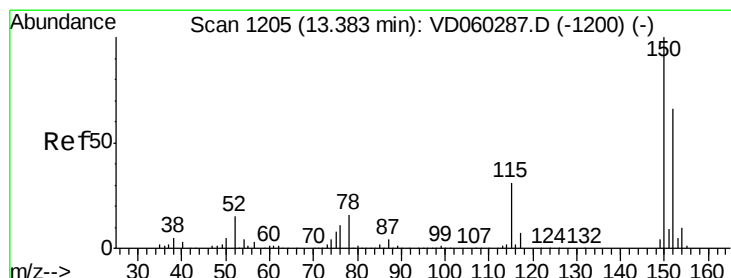
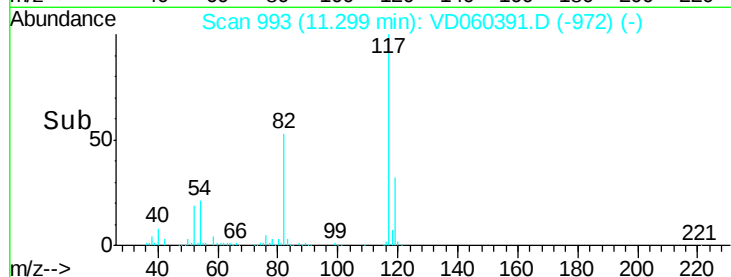
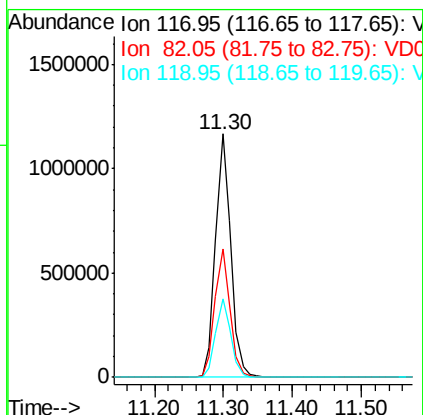
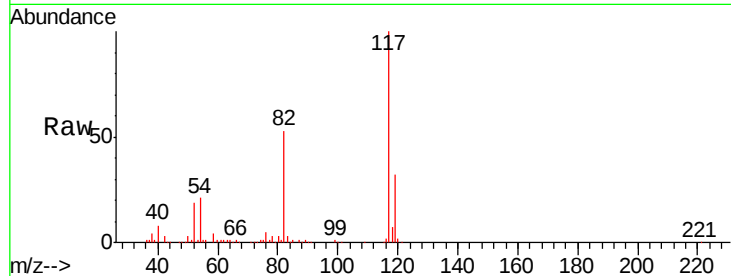




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.30 min Scan# 993
Delta R.T. 0.00 min
Lab File: VD060391.D
Acq: 16 Nov 2018 11:40

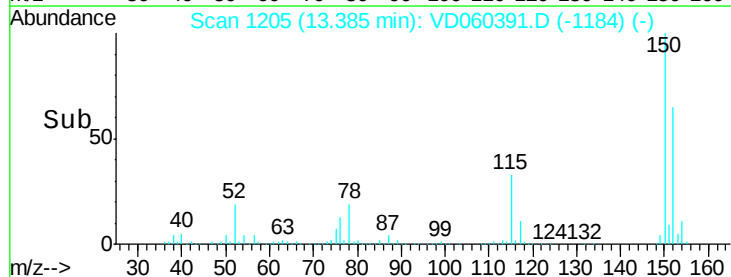
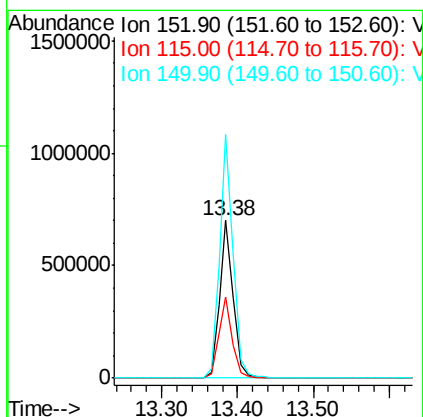
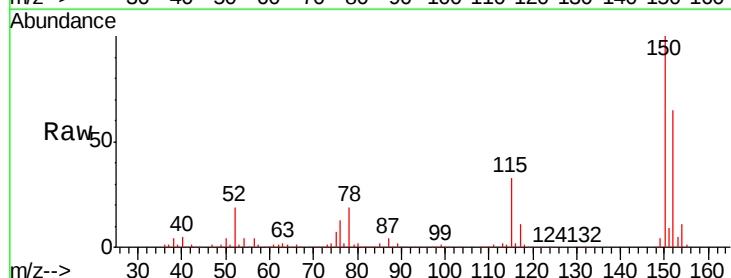
Instrument :
MSVOA_D
ClientSampleId :
VD1116SBL01

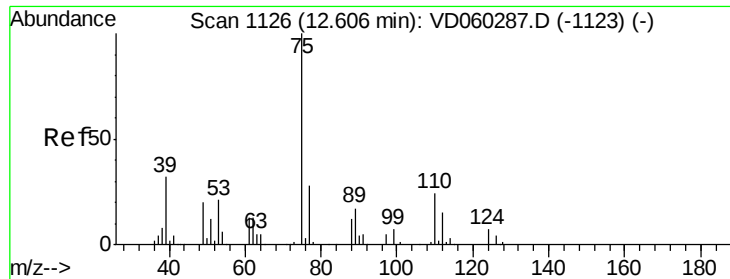
Tgt Ion:117 Resp: 1798118
Ion Ratio Lower Upper
117 100
82 52.6 43.7 65.5
119 32.4 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.38 min Scan# 1205
Delta R.T. 0.00 min
Lab File: VD060391.D
Acq: 16 Nov 2018 11:40

Tgt Ion:152 Resp: 884115
Ion Ratio Lower Upper
152 100
115 51.5 24.1 72.3
150 154.4 0.0 310.6

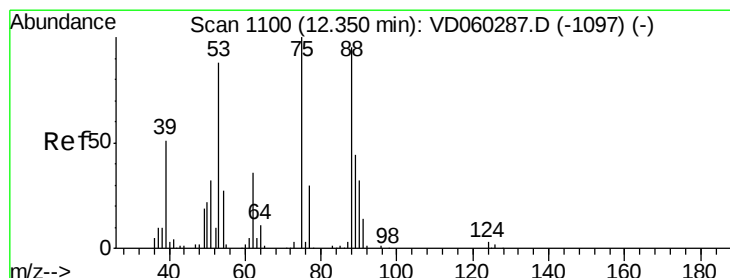
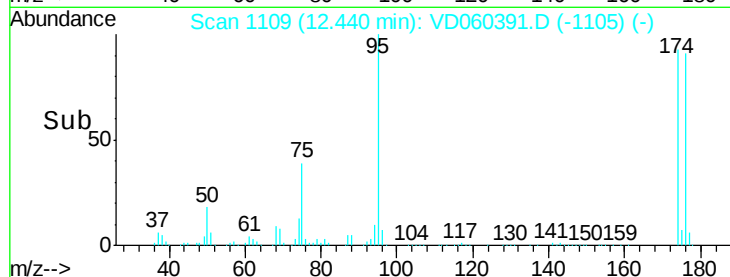
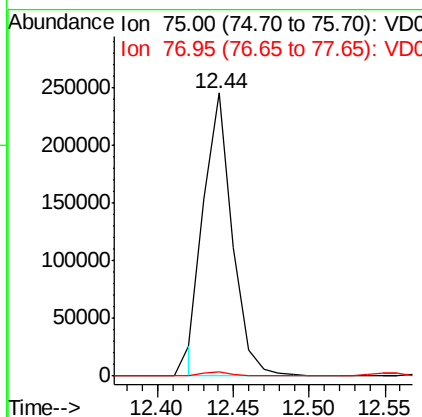
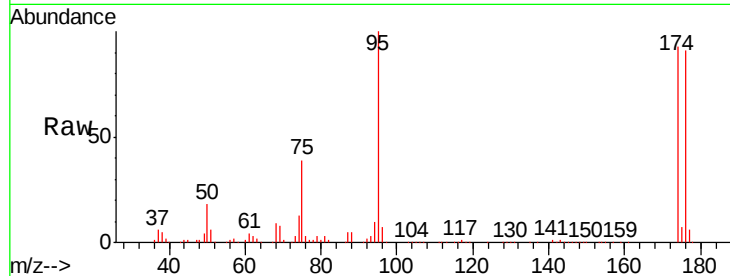




#76
 1,2,3-Trichloropropane
 Concen: 30.19 ug/l
 RT: 12.44 min Scan# 1109
 Delta R.T. -0.17 min
 Lab File: VD060391.D
 Acq: 16 Nov 2018 11:40

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1116SBL01

Tgt Ion: 75 Resp: 319287
 Ion Ratio Lower Upper
 75 100
 77 1.5 16.4 49.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 111.85 ug/l
 RT: 12.44 min Scan# 1109
 Delta R.T. 0.09 min
 Lab File: VD060391.D
 Acq: 16 Nov 2018 11:40

Tgt Ion: 75 Resp: 336790
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.6 103.0#
 89 0.0 34.1 51.1#

