

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060818\
 Data File : VD058050.D
 Acq On : 9 Jun 2018 8:15
 Operator : VA/AP
 Sample : J3347-03
 Misc : 6.79g/5ml/MSVOA D/SOIL
 ALS Vial : 69 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 11 04:06:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	635576	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.69	114	903277	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.68	117	769146	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.90	152	393261	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	430466	67.75	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	135.50%	
35) Dibromofluoromethane	5.55	113	446153	63.84	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	127.68%	
50) Toluene-d8	8.70	98	969012	58.32	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	116.64%	
62) 4-Bromofluorobenzene	11.93	95	428631	59.14	ug/l	0.00
Spiked Amount 50.000			Recovery	=	118.28%	

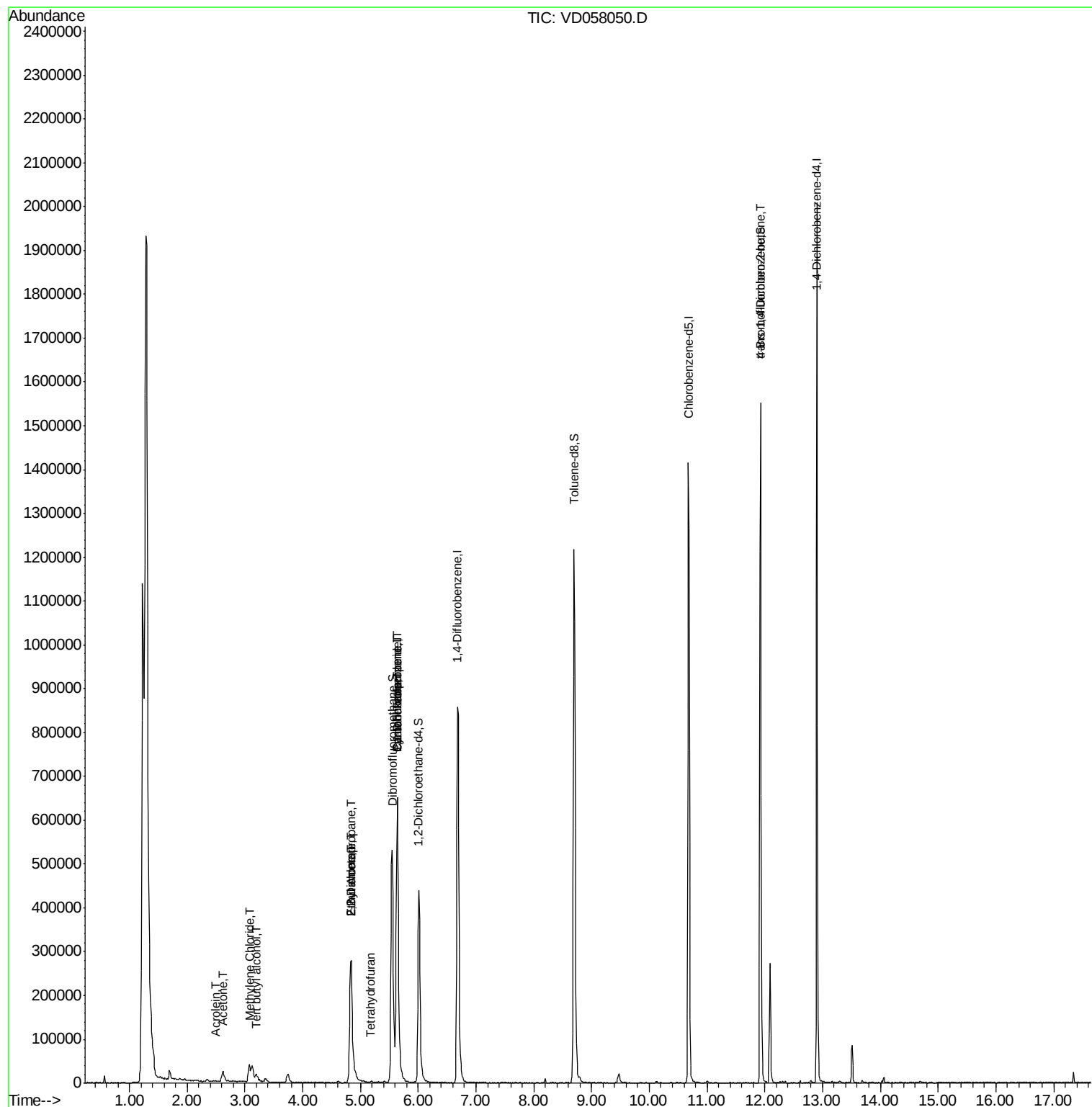
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.20	59	18520	108.801	ug/l #	74
13) Acrolein	2.49	56	255	1.046	ug/l #	16
16) Acetone	2.61	43	57435	62.739	ug/l	98
20) Methylene Chloride	3.07	84	20961	1.801	ug/l	90
25) 2-Butanone	4.84	43	25494	12.254	ug/l #	86
26) 2,2-Dichloropropane	4.83	77	20361	1.931	ug/l #	59
29) Tetrahydrofuran	5.17	42	1129	1.035	ug/l #	39
31) Cyclohexane	5.64	56	15360	1.390	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	56309	5.658	ug/l #	51
37) Ethyl Acetate	4.84	43	25494	4.695	ug/l #	23
38) Carbon Tetrachloride	5.64	117	52786	5.382	ug/l #	15
81) trans-1,4-Dichloro-2-buten	11.93	75	212555	145.271	ug/l #	6
82) 4-Chlorotoluene	12.32	91	979	Below Cal	#	62
89) n-Butylbenzene	13.19	91	701	Below Cal	#	81

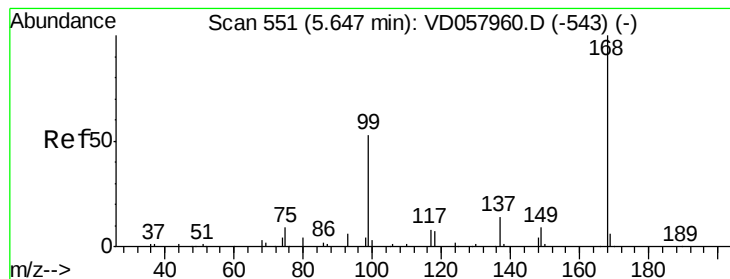
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 07 08:57:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD058050.D

Acq: 9 Jun 2018 8:15

Instrument :

MSVOA_D

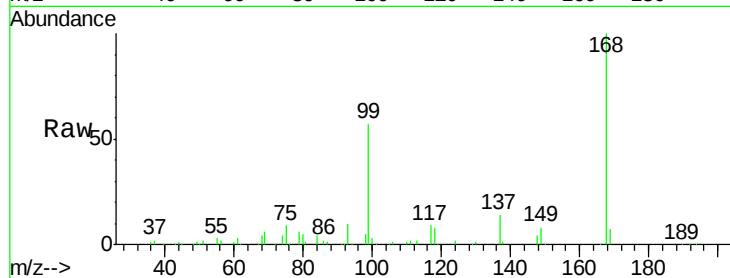
ClientSampleId :

Tot Ion:168 Resp: 635576

Ion Ratio Lower Upper

168 100

99 56.9 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.64

250000

200000

150000

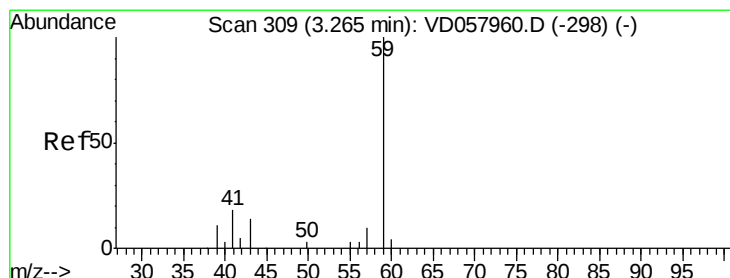
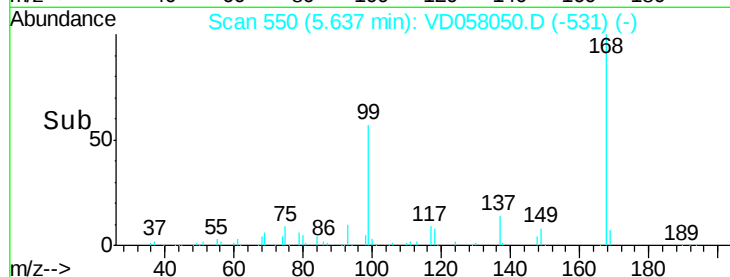
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 108.801 ug/l

RT: 3.20 min Scan# 302

Delta R.T. -0.07 min

Lab File: VD058050.D

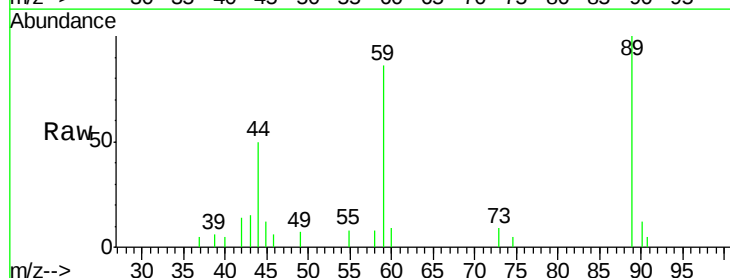
Acq: 9 Jun 2018 8:15

Tgt Ion: 59 Resp: 18520

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

6000

5000

4000

3000

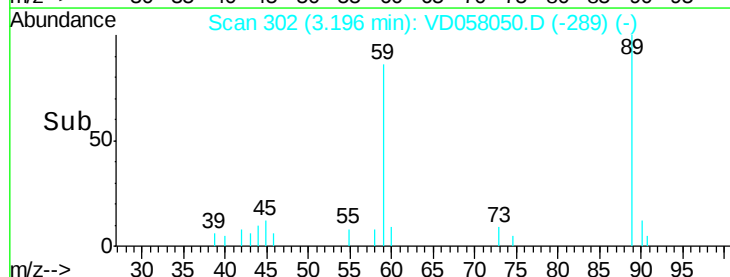
2000

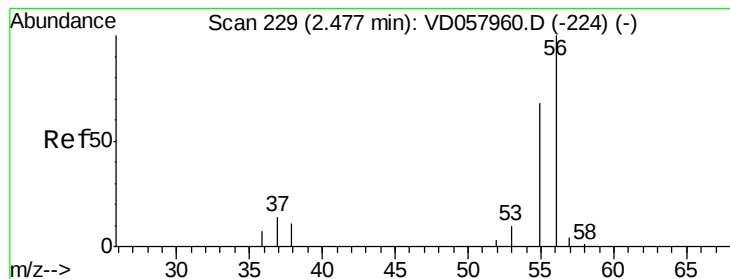
1000

0

Time-->

3.10 3.20 3.30 3.40





#13

Acrolein

Concen: 1.046 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.01 min

Lab File: VD058050.D

Acq: 9 Jun 2018 8:15

Instrument :

MSVOA_D

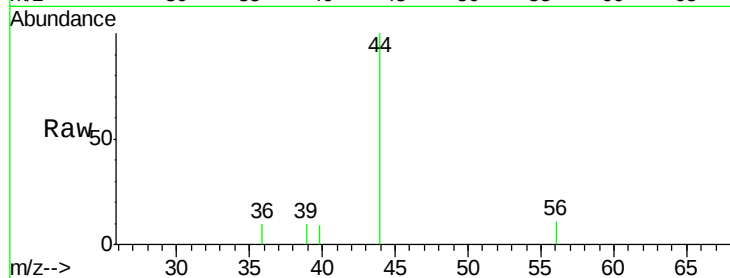
ClientSampled :

Tot Ion: 56 Resp: 255

Ion Ratio Lower Upper

56 100

55 0.0 54.0 81.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

2.49

400

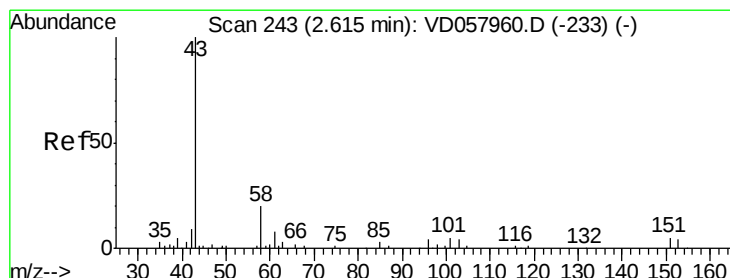
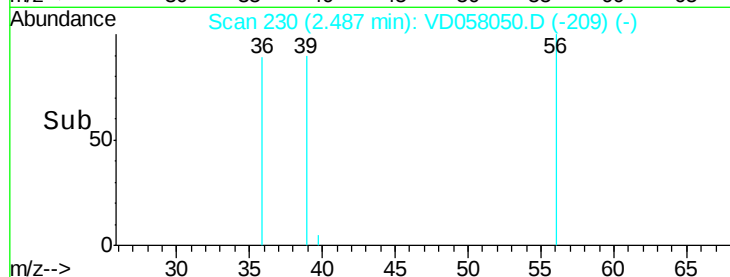
300

200

100

0

Time-->



#16

Acetone

Concen: 62.739 ug/l

RT: 2.61 min Scan# 243

Delta R.T. -0.00 min

Lab File: VD058050.D

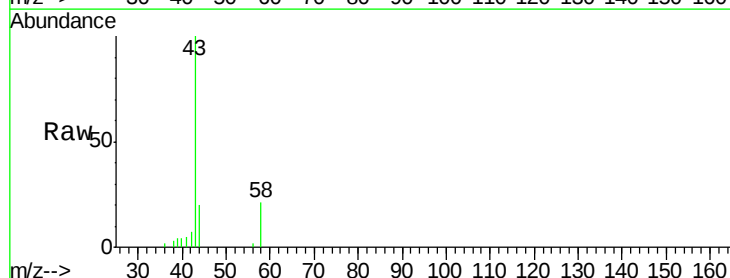
Acq: 9 Jun 2018 8:15

Tgt Ion: 43 Resp: 57435

Ion Ratio Lower Upper

43 100

58 20.7 15.8 23.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2.61

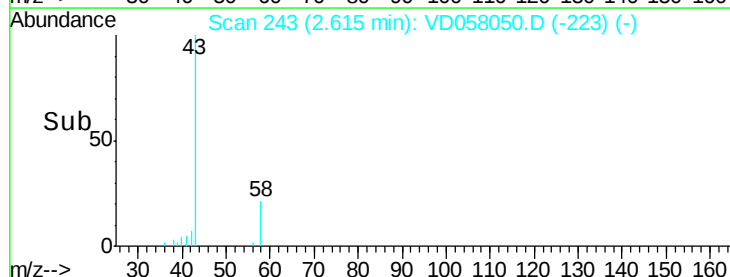
15000

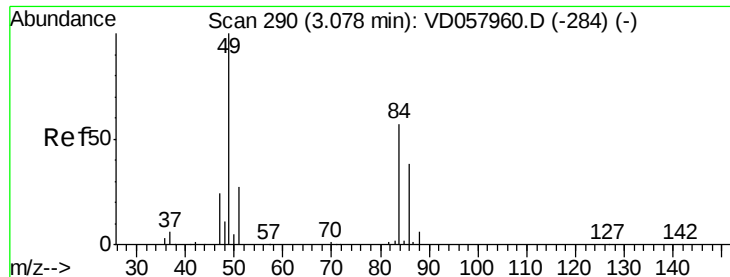
10000

5000

0

Time-->

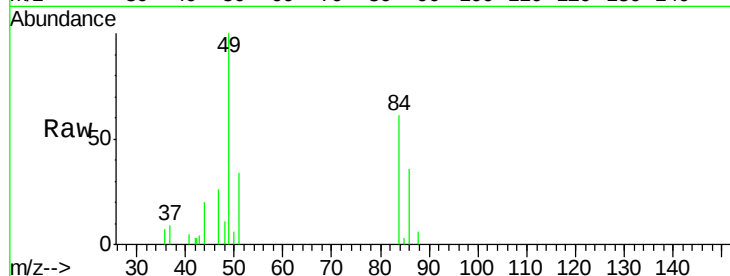




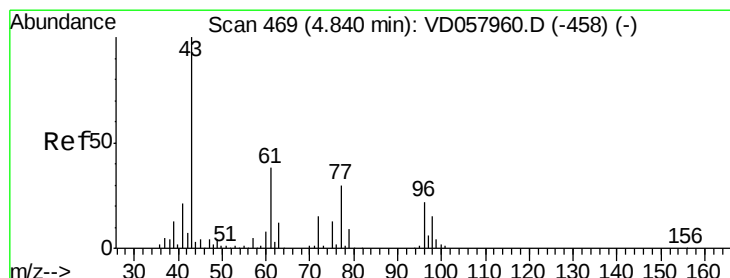
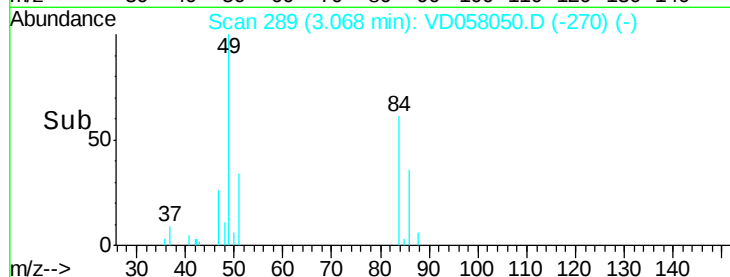
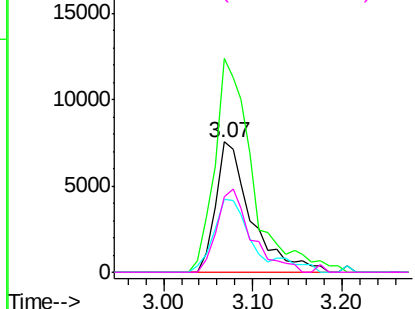
#20
Methylene Chloride
Concen: 1.801 ug/l
RT: 3.07 min Scan# 289
Delta R.T. -0.01 min
Lab File: VD058050.D
Acq: 9 Jun 2018 8:15

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 20961
Ion Ratio Lower Upper
84 100
49 164.1 141.4 212.0
51 56.5 38.3 57.5
86 58.5 52.9 79.3

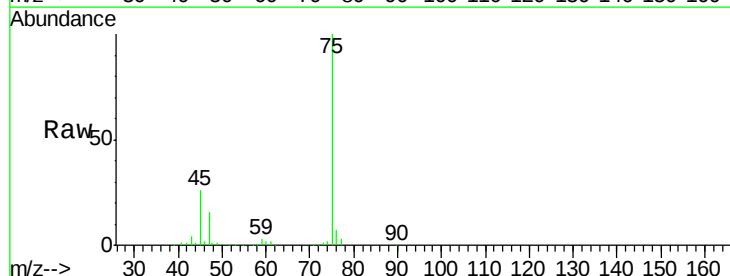


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

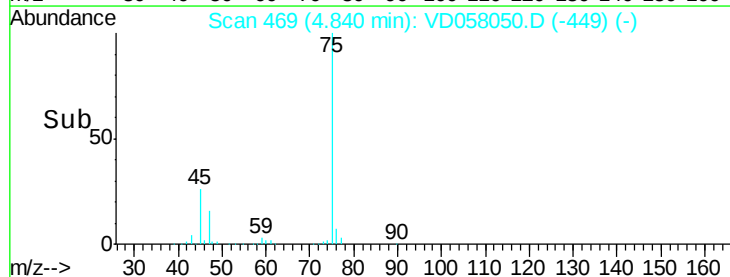
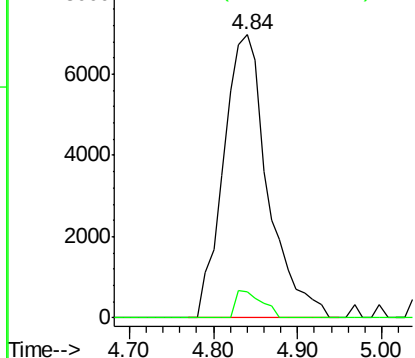


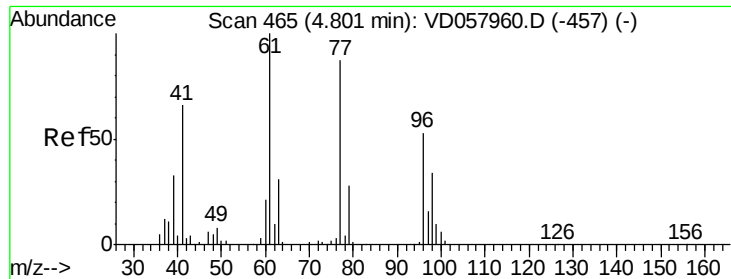
#25
2-Butanone
Concen: 12.254 ug/l
RT: 4.84 min Scan# 469
Delta R.T. -0.00 min
Lab File: VD058050.D
Acq: 9 Jun 2018 8:15

Tgt Ion: 43 Resp: 25494
Ion Ratio Lower Upper
43 100
72 9.1 12.0 18.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC





#26

2,2-Dichloropropane

Concen: 1.931 ug/l

RT: 4.83 min Scan# 468

Delta R.T. 0.03 min

Lab File: VD058050.D

Acq: 9 Jun 2018 8:15

Instrument :

MSVOA_D

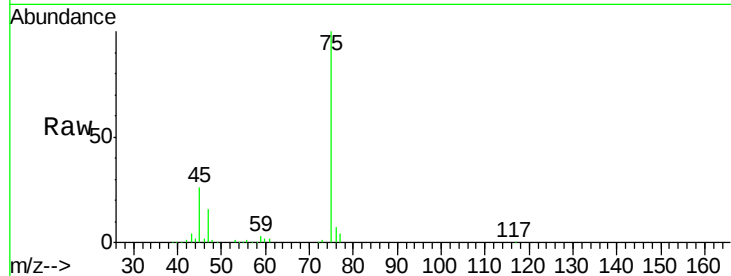
ClientSampled :

Tot Ion: 77 Resp: 20361

Ion Ratio Lower Upper

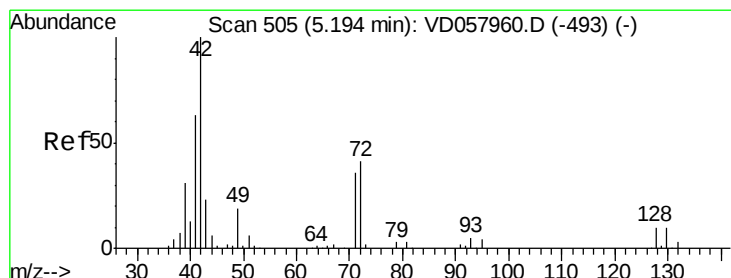
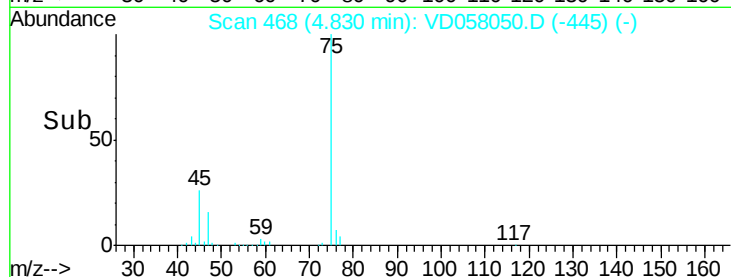
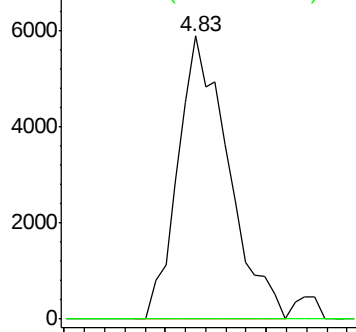
77 100

97 0.0 9.2 27.6#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



#29

Tetrahydrofuran

Concen: 1.035 ug/l

RT: 5.17 min Scan# 503

Delta R.T. -0.02 min

Lab File: VD058050.D

Acq: 9 Jun 2018 8:15

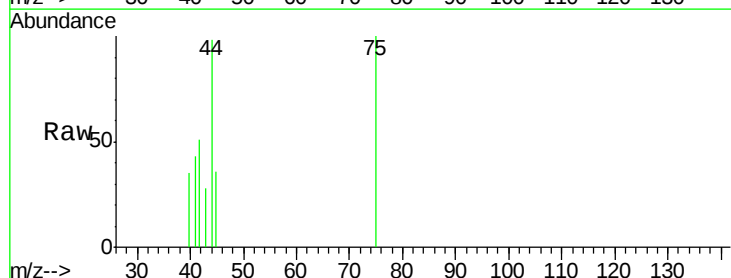
Tgt Ion: 42 Resp: 1129

Ion Ratio Lower Upper

42 100

72 0.0 28.5 42.7#

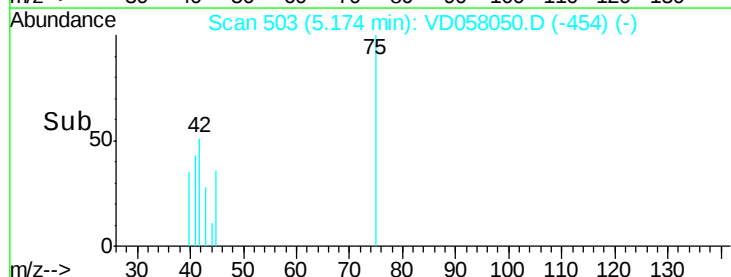
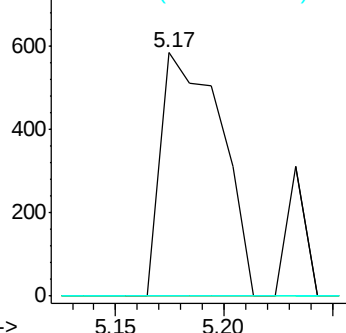
71 0.0 27.9 41.9#

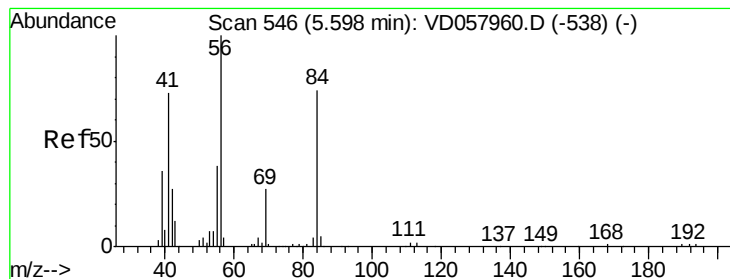


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.390 ug/l

RT: 5.64 min Scan# 550

Delta R.T. 0.04 min

Lab File: VD058050.D

Acq: 9 Jun 2018 8:15

Instrument :

MSVOA_D

ClientSampleId :

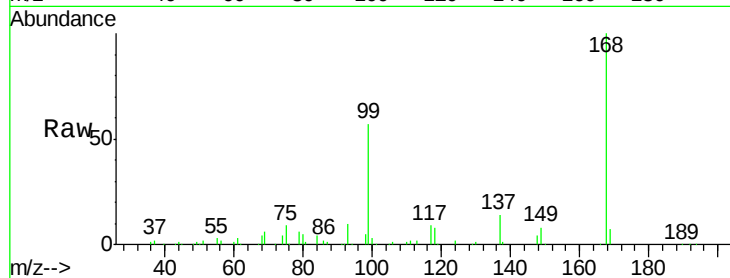
Tot Ion: 56 Resp: 15360

Ion Ratio Lower Upper

56 100

69 231.1 21.5 32.3#

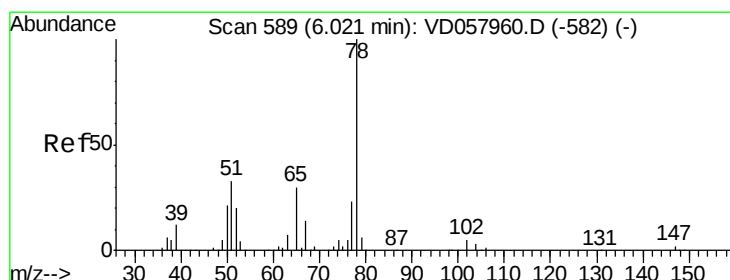
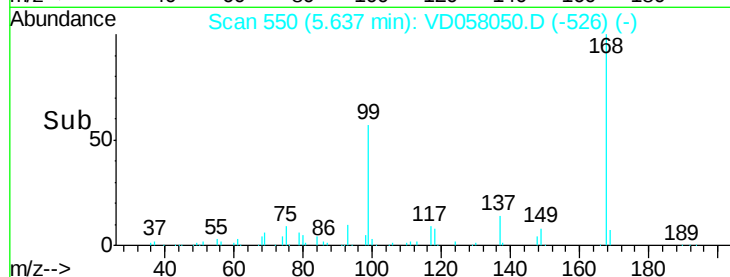
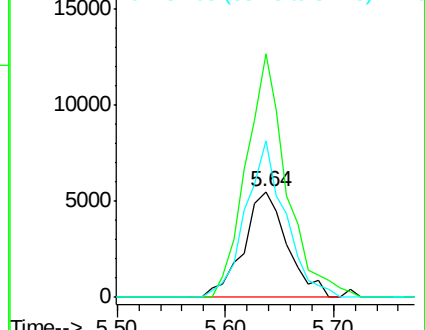
84 148.7 61.0 91.6#



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: N.D. ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD058050.D

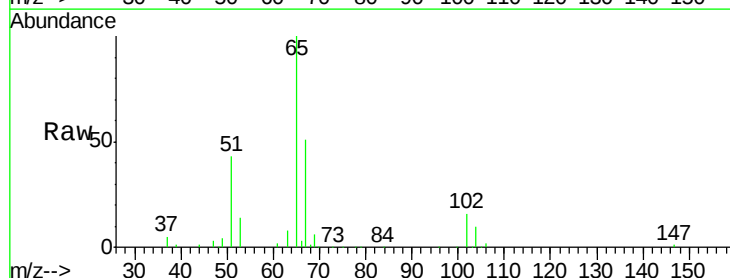
Acq: 9 Jun 2018 8:15

Tgt Ion: 65 Resp: 430466

Ion Ratio Lower Upper

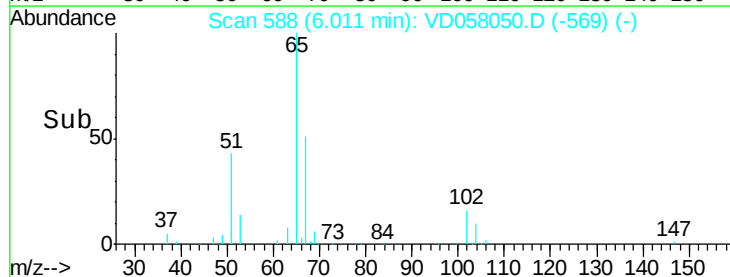
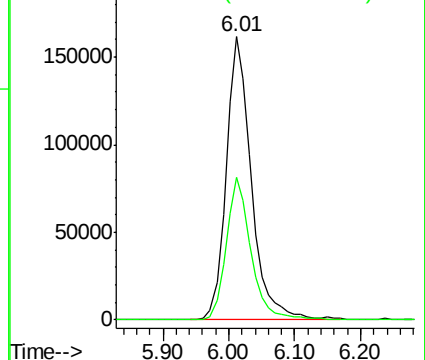
65 100

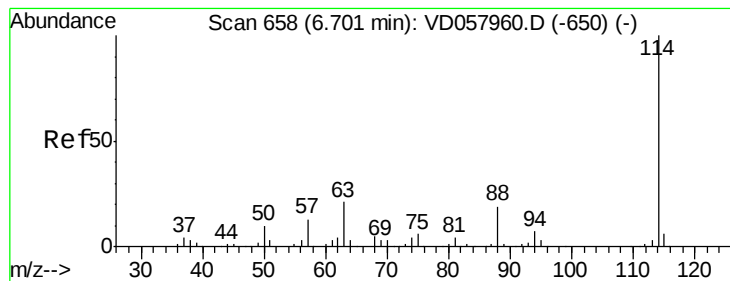
67 50.5 0.0 94.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.69 min Scan# 657

Delta R.T. -0.01 min

Lab File: VD058050.D

Acq: 9 Jun 2018 8:15

Instrument :

MSVOA_D

ClientSampleId :

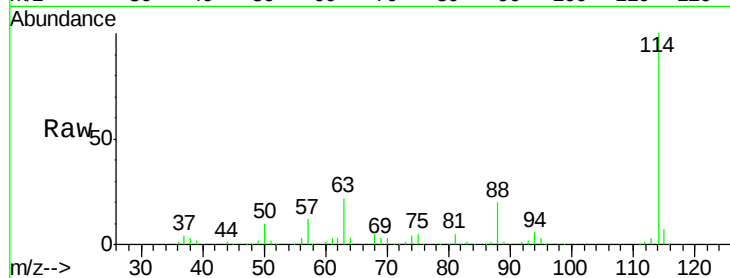
Tot Ion:114 Resp: 903277

Ion Ratio Lower Upper

114 100

63 21.5 0.0 42.8

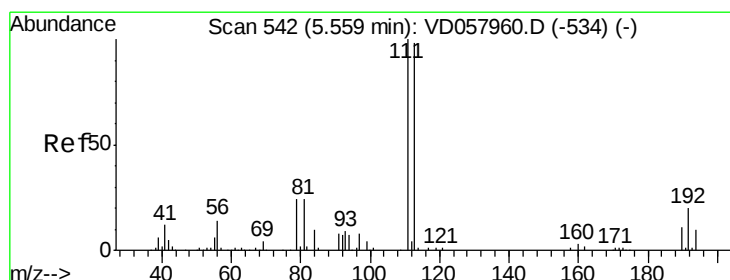
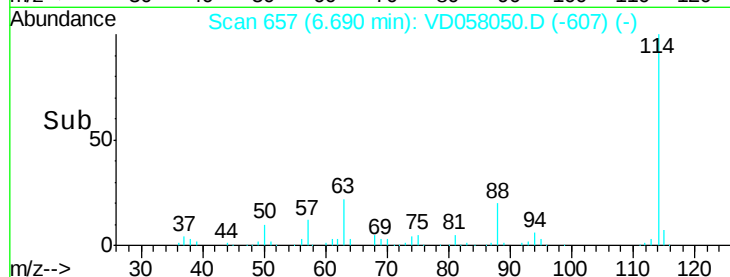
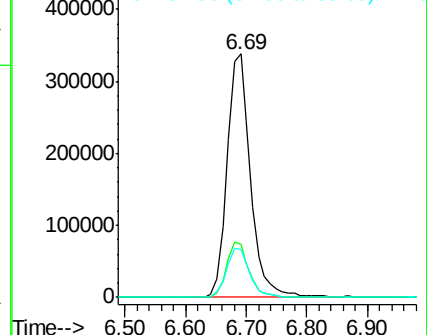
88 19.5 0.0 37.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.55 min Scan# 541

Delta R.T. -0.01 min

Lab File: VD058050.D

Acq: 9 Jun 2018 8:15

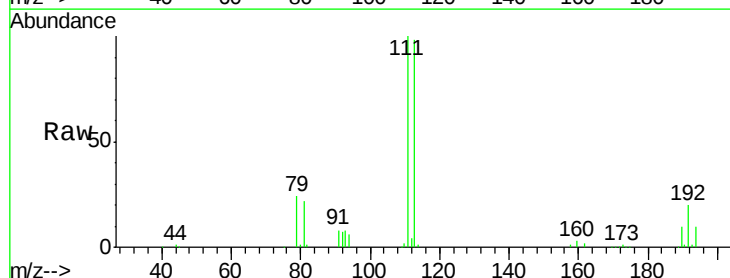
Tgt Ion:113 Resp: 446153

Ion Ratio Lower Upper

113 100

111 102.0 81.5 122.3

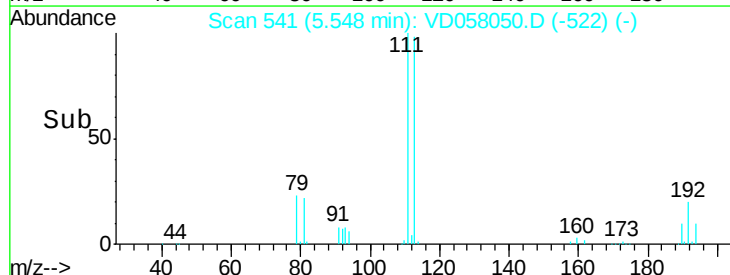
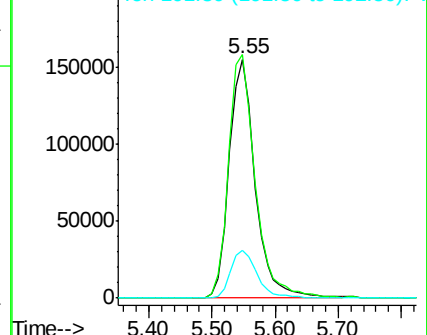
192 20.2 16.4 24.6

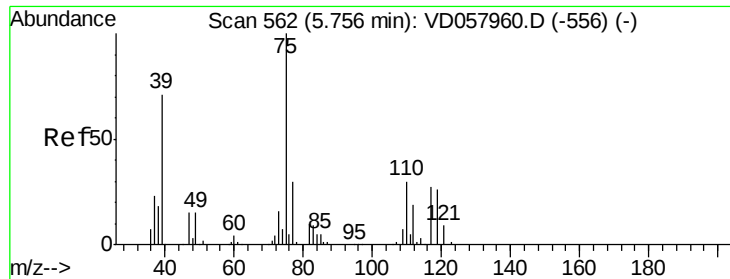


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.658 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.12 min

Lab File: VD058050.D

Acq: 9 Jun 2018 8:15

Instrument :

MSVOA_D

ClientSampled :

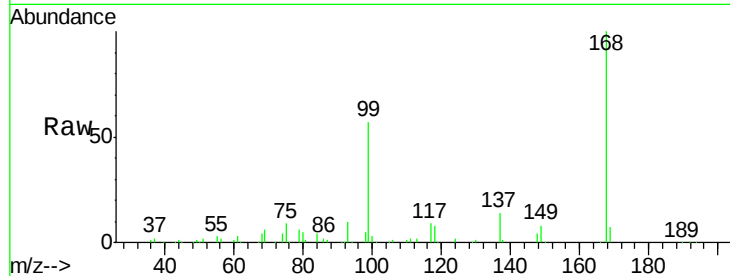
Tot Ion: 75 Resp: 56309

Ion Ratio Lower Upper

75 100

110 7.0 14.8 44.3#

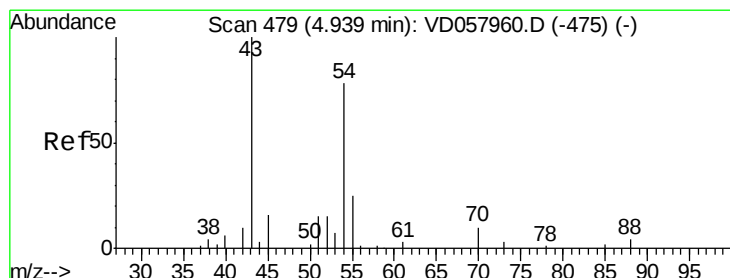
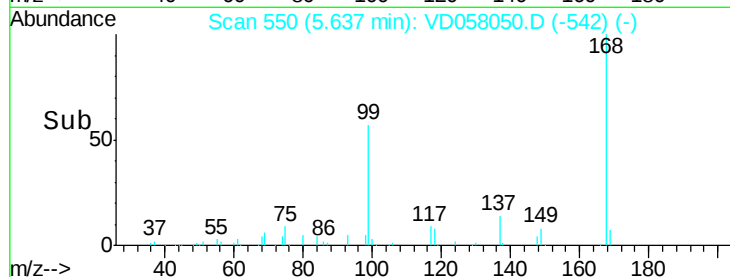
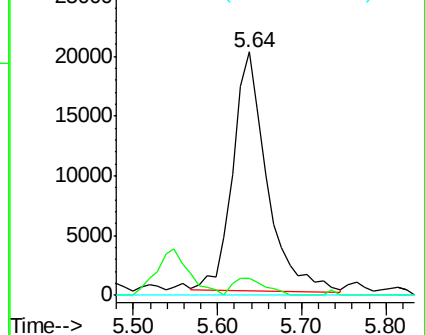
77 0.0 23.9 35.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 4.695 ug/l

RT: 4.84 min Scan# 469

Delta R.T. -0.10 min

Lab File: VD058050.D

Acq: 9 Jun 2018 8:15

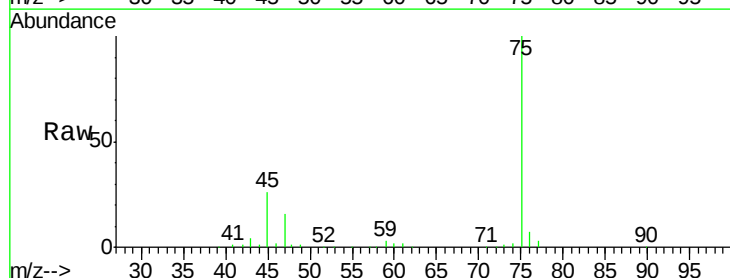
Tgt Ion: 43 Resp: 25494

Ion Ratio Lower Upper

43 100

61 55.3 9.9 14.9#

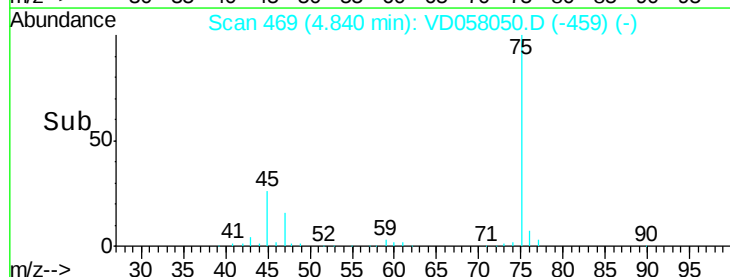
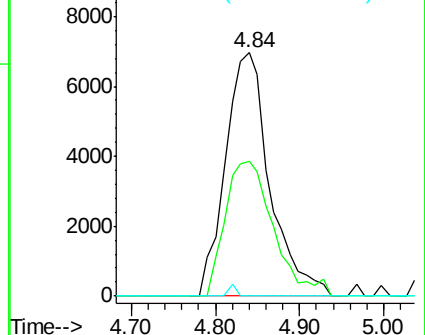
70 0.0 5.7 8.5#

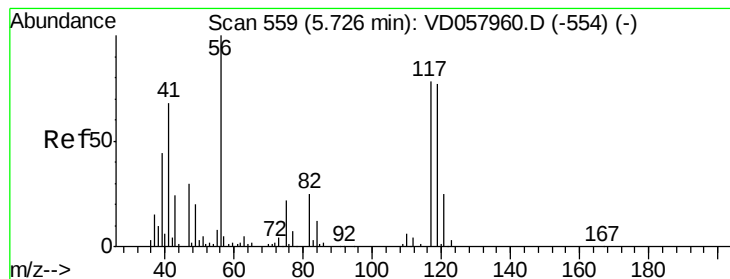


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.382 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.09 min

Lab File: VD058050.D

Acq: 9 Jun 2018 8:15

Instrument :
MSVOA_D
ClientSampleId :

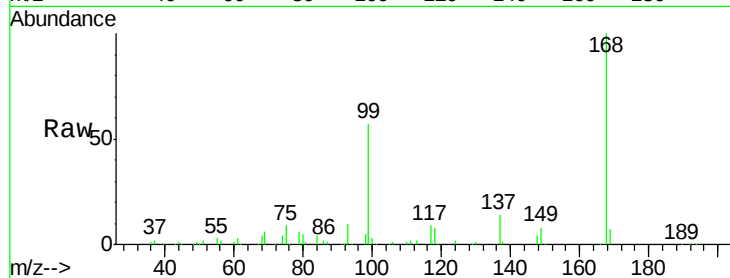
Tot Ion:117 Resp: 52786

Ion Ratio Lower Upper

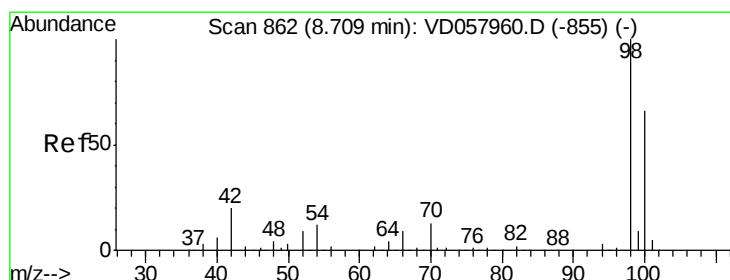
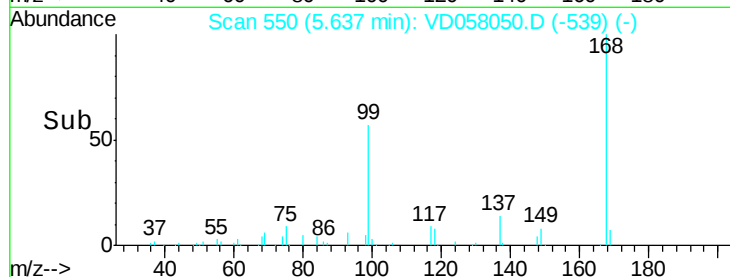
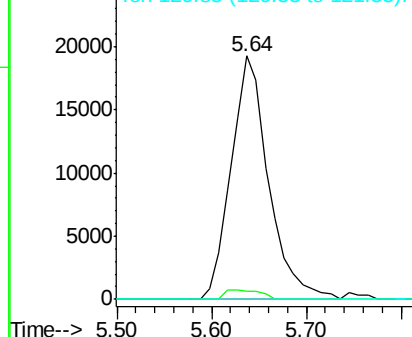
117 100

119 3.5 76.1 114.1#

121 0.0 24.9 37.3#



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD058050.D

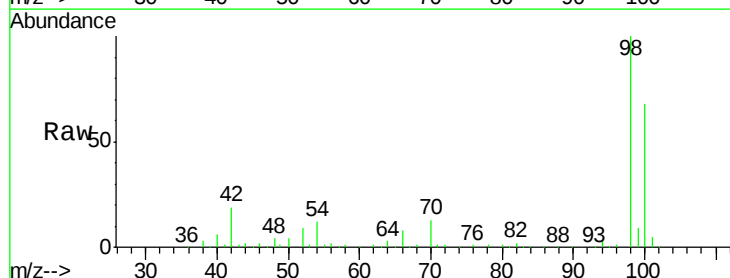
Acq: 9 Jun 2018 8:15

Tgt Ion: 98 Resp: 969012

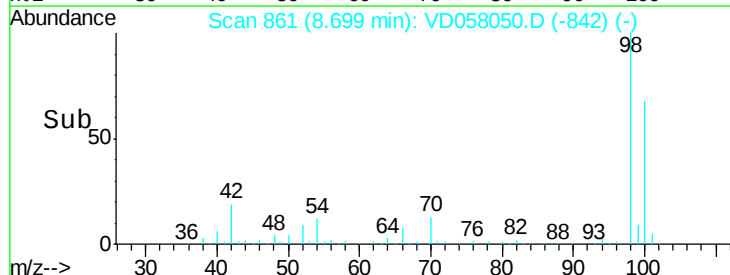
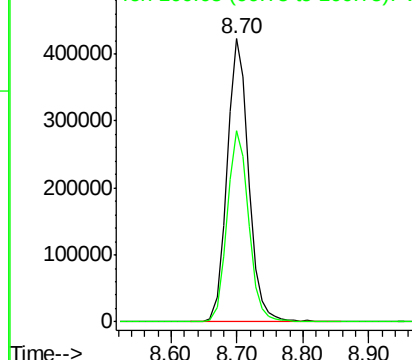
Ion Ratio Lower Upper

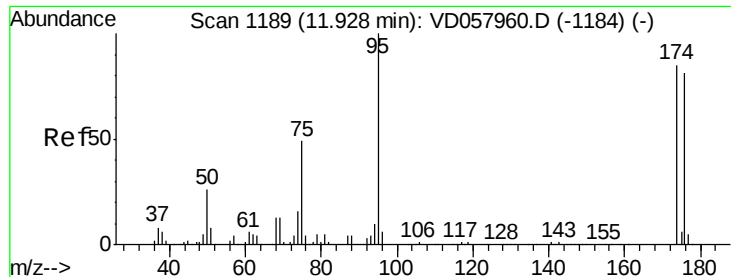
98 100

100 67.7 53.4 80.0



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





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VD058050.D

Acq: 9 Jun 2018 8:15

Instrument :

MSVOA_D

ClientSampleId :

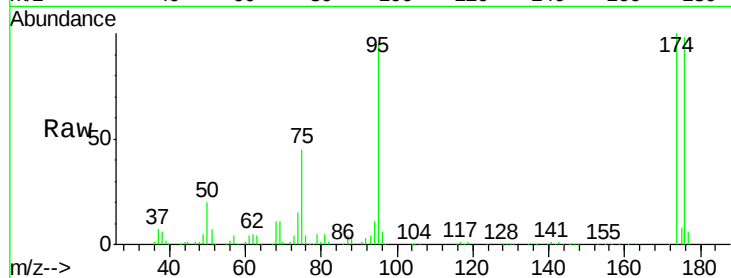
Tot Ion: 95 Resp: 428631

Ion Ratio Lower Upper

95 100

174 105.8 0.0 169.4

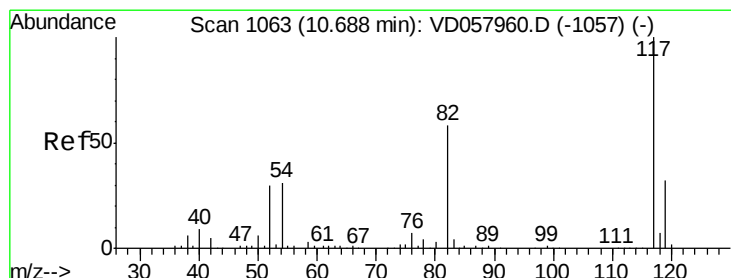
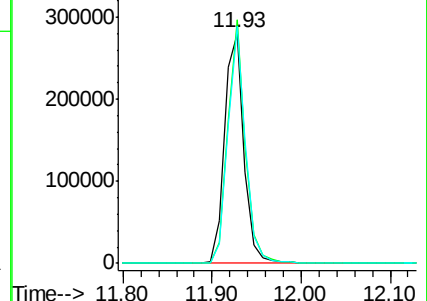
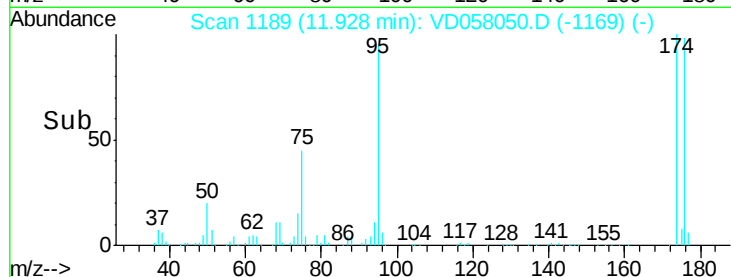
176 103.2 0.0 162.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.68 min Scan# 1062

Delta R.T. -0.01 min

Lab File: VD058050.D

Acq: 9 Jun 2018 8:15

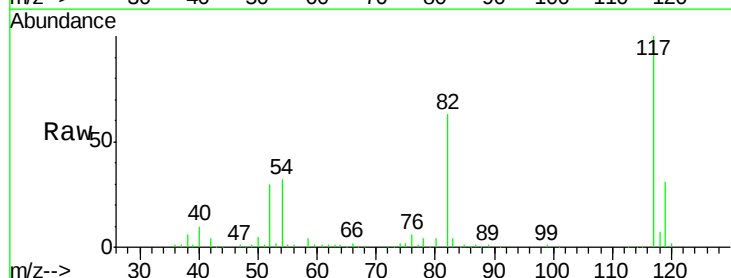
Tgt Ion: 117 Resp: 769146

Ion Ratio Lower Upper

117 100

82 62.6 46.8 70.2

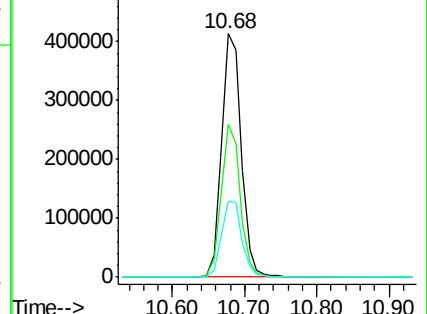
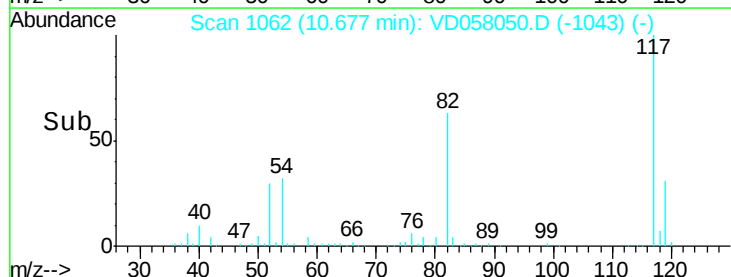
119 31.1 25.8 38.6

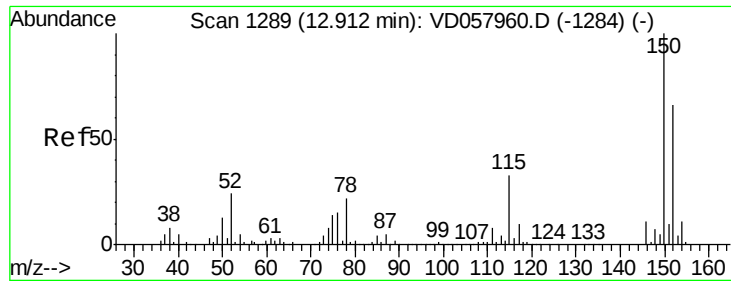


Abundance Ion 116.95 (116.65 to 117.65): V

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: 12.90 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VD058050.D

Acq: 9 Jun 2018 8:15

Instrument :

MSVOA_D

ClientSampleId :

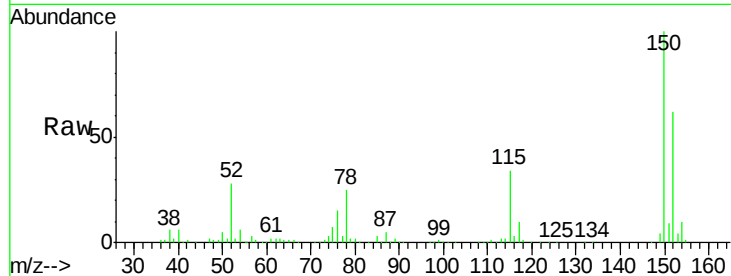
Tot Ion:152 Resp: 393261

Ion Ratio Lower Upper

152 100

115 54.6 25.6 76.6

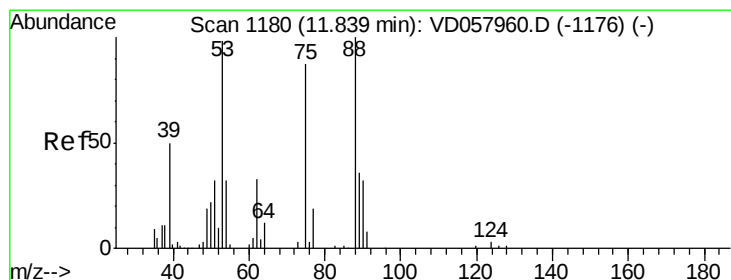
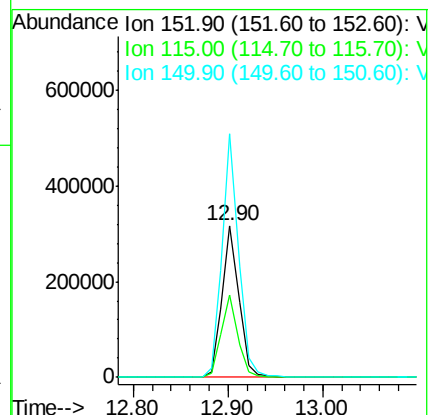
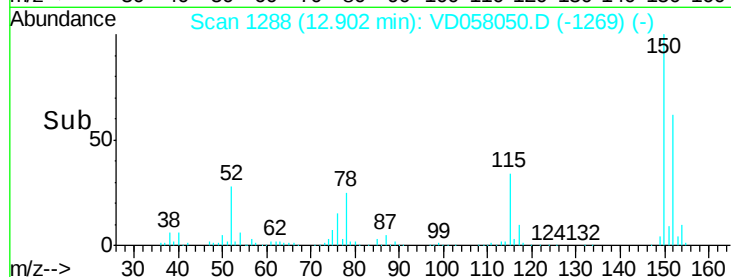
150 160.7 0.0 306.8



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: 145.271 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058050.D

Acq: 9 Jun 2018 8:15

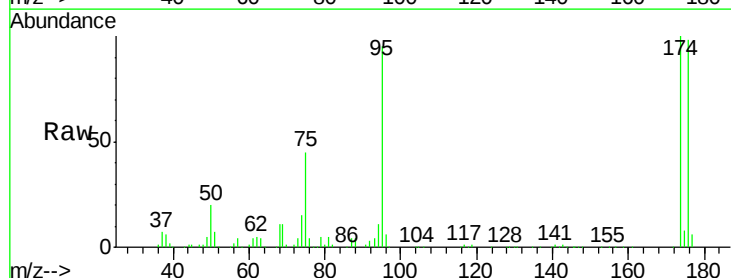
Tgt Ion: 75 Resp: 212555

Ion Ratio Lower Upper

75 100

53 0.0 89.3 133.9#

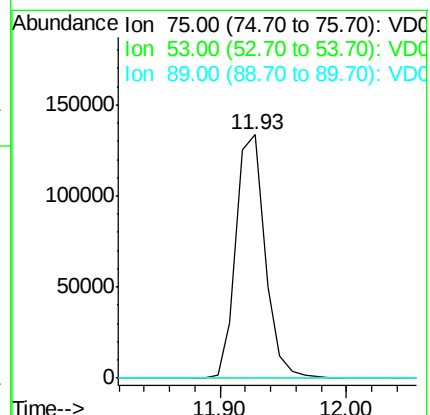
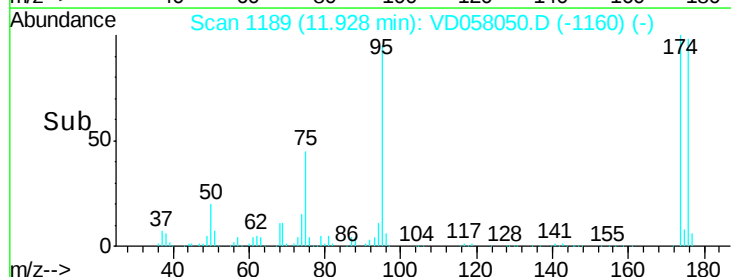
89 0.0 33.3 49.9#

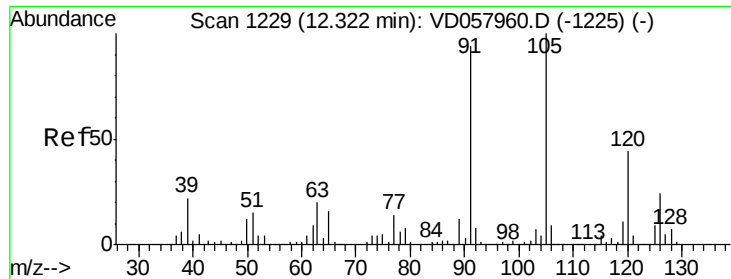


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

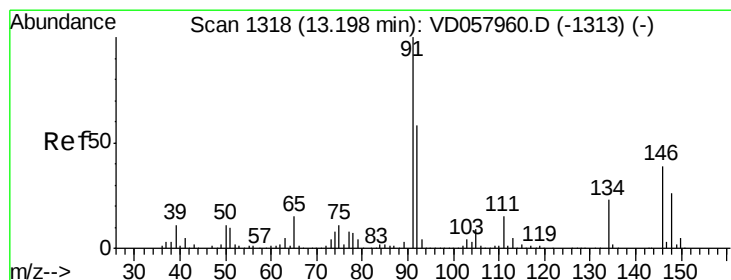
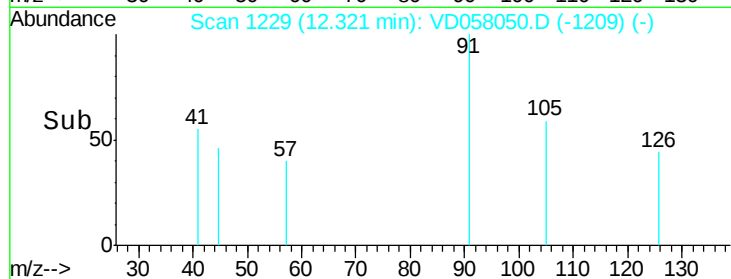
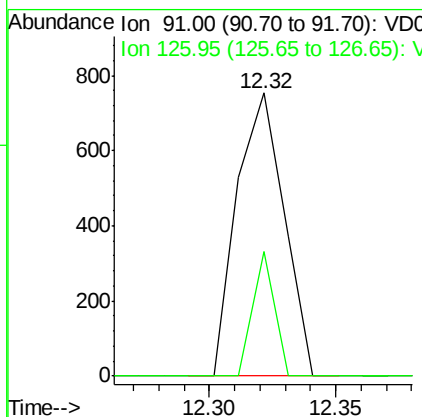
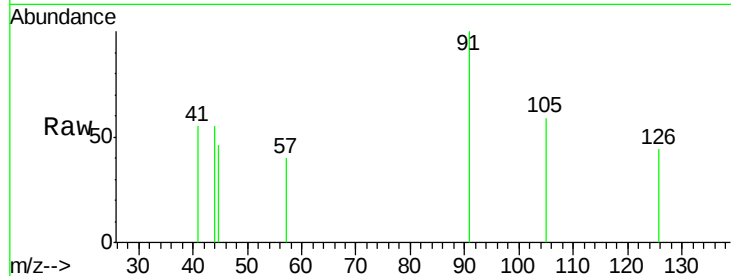




#82
 4-Chlorotoluene
 Concen: Below Cal
 RT: 12.32 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VD058050.D
 Acq: 9 Jun 2018 8:15

Instrument :
 MSVOA_D
 ClientSampleID :

Tot Ion: 91 Resp: 979
 Ion Ratio Lower Upper
 91 100
 126 44.0 12.5 37.5#



#89
 n-Butylbenzene
 Concen: Below Cal
 RT: 13.19 min Scan# 1317
 Delta R.T. -0.01 min
 Lab File: VD058050.D
 Acq: 9 Jun 2018 8:15

Tgt Ion: 91 Resp: 701
 Ion Ratio Lower Upper
 91 100
 92 64.3 29.2 87.6
 134 0.0 11.3 33.9#

