

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060818\
 Data File : VD058056.D
 Acq On : 9 Jun 2018 11:05
 Operator : VA/AP
 Sample : J3377-01RE
 Misc : 5.48g/5ml/MSVOA D/SOIL
 ALS Vial : 75 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 11 04:07:55 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	5.63	168	564493	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	6.68	114	746662	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	566957	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	269799	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.00	65	347819	61.63	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	123.26%	
35) Dibromofluoromethane	5.54	113	346170	59.92	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	119.84%	
50) Toluene-d8	8.69	98	764099	55.63	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	111.26%	
62) 4-Bromofluorobenzene	11.92	95	313768	52.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.74%	

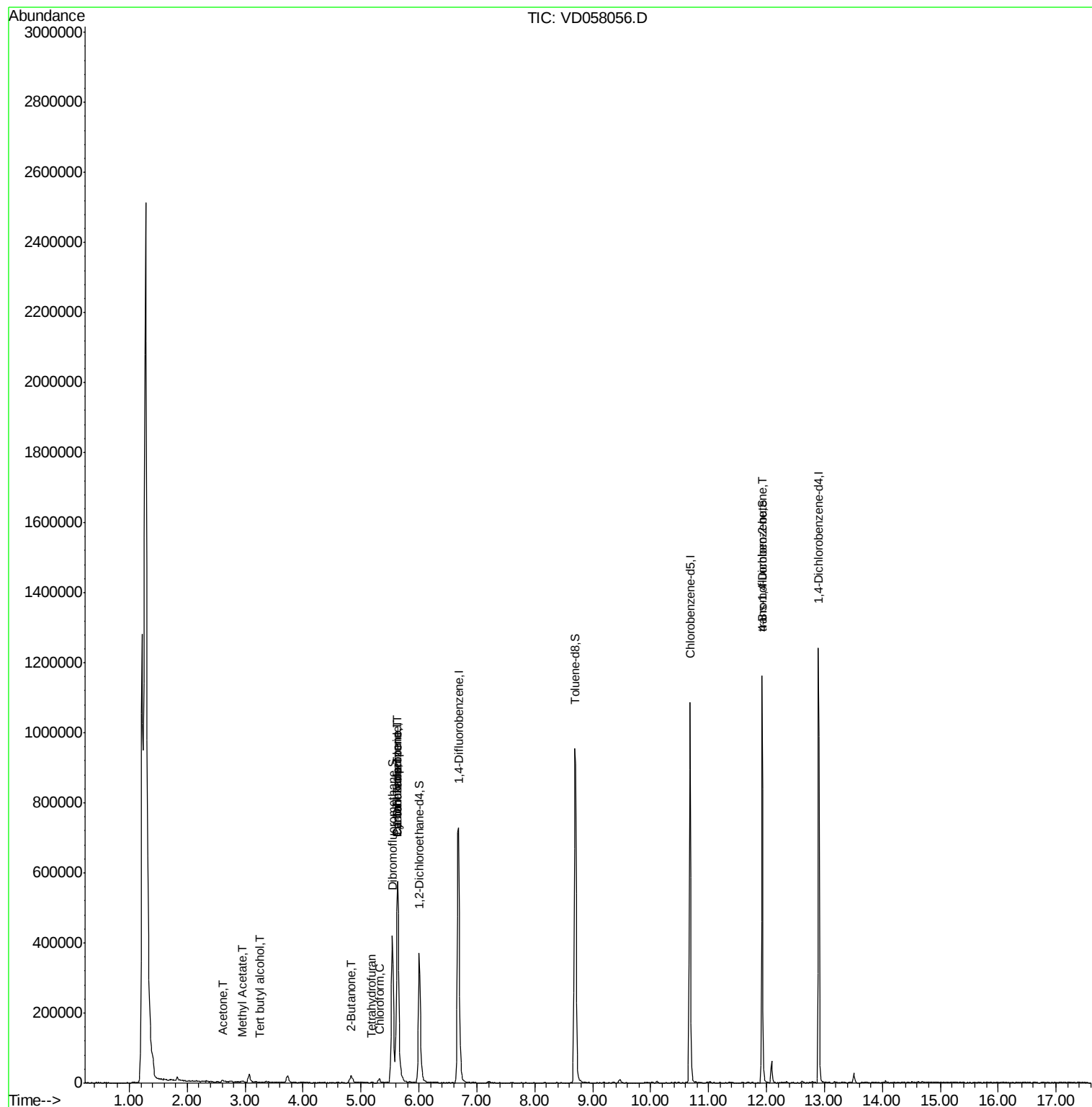
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.25	59	226	1.495	ug/l #	74
16) Acetone	2.61	43	10967	13.488	ug/l	97
18) Methyl Acetate	2.93	43	1908	1.213	ug/l #	66
20) Methylene Chloride	3.06	84	11301	Below Cal	#	88
25) 2-Butanone	4.82	43	4033	2.183	ug/l #	64
29) Tetrahydrofuran	5.18	42	1198	1.237	ug/l #	39
30) Chloroform	5.32	83	12344	1.079	ug/l #	78
31) Cyclohexane	5.63	56	13949	1.421	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	48563	5.903	ug/l #	51
38) Carbon Tetrachloride	5.63	117	45986	5.672	ug/l #	16
81) trans-1,4-Dichloro-2-buten	11.92	75	148839	148.274	ug/l #	6
82) 4-Chlorotoluene	12.31	91	439	Below Cal	#	50
89) n-Butylbenzene	13.18	91	723	Below Cal	#	30

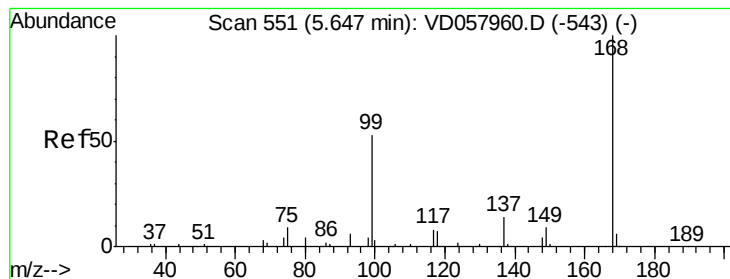
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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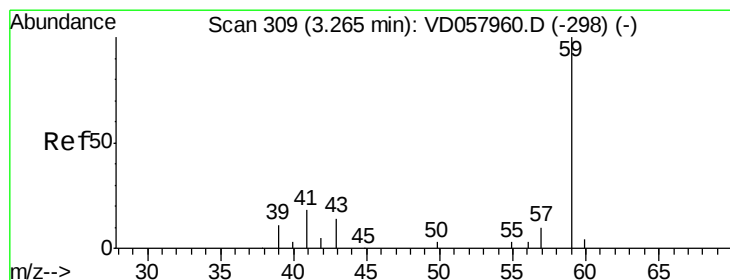
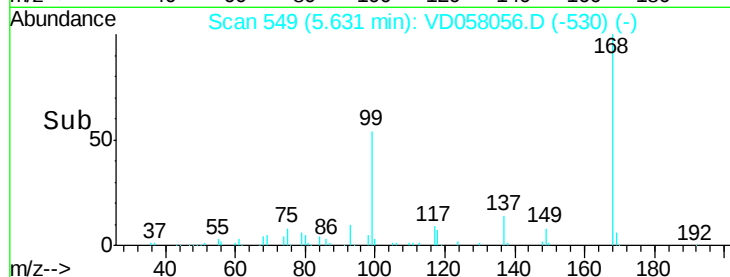
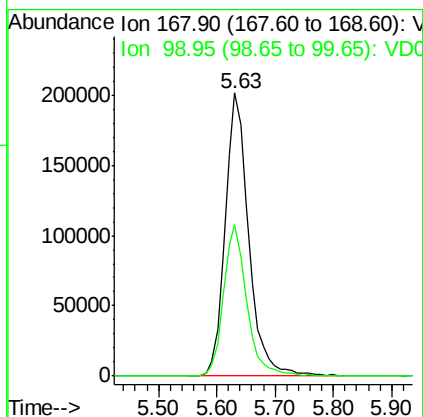
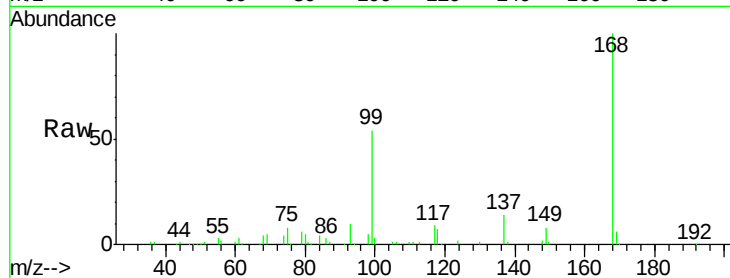




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.63 min Scan# 549
Delta R.T. -0.02 min
Lab File: VD058056.D
Acq: 9 Jun 2018 11:05

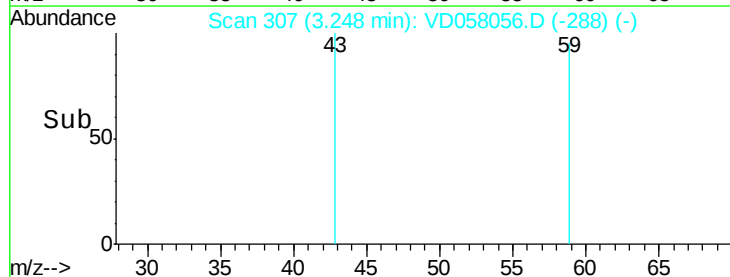
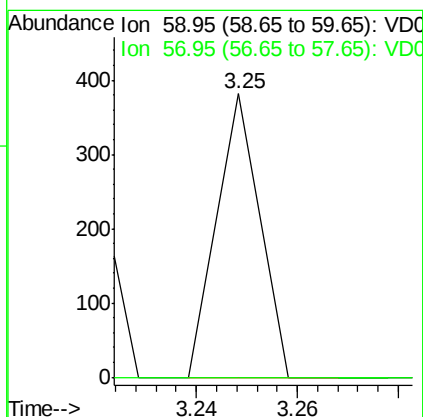
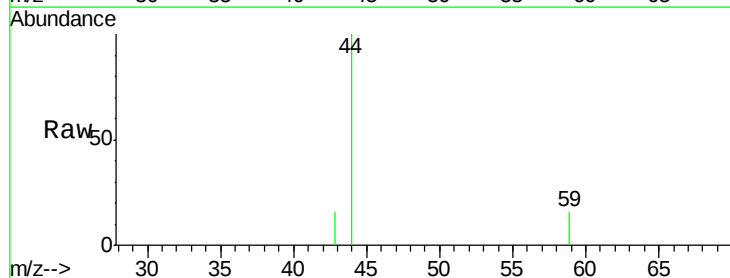
Instrument :
MSVOA_D
ClientSampleId :

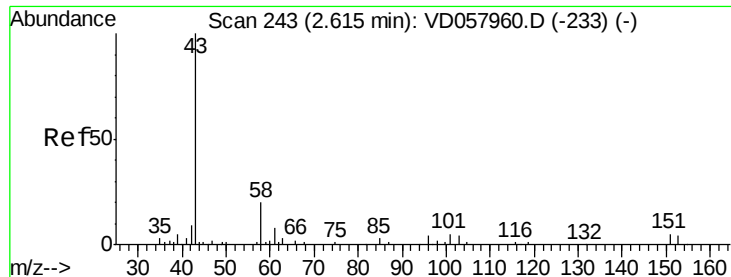
Tot Ion:168 Resp: 564493
Ion Ratio Lower Upper
168 100
99 53.5 46.8 70.2



#11
Tert butyl alcohol
Concen: 1.495 ug/l
RT: 3.25 min Scan# 307
Delta R.T. -0.02 min
Lab File: VD058056.D
Acq: 9 Jun 2018 11:05

Tgt Ion: 59 Resp: 226
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#





#16

Acetone

Concen: 13.488 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD058056.D

Acq: 9 Jun 2018 11:05

Instrument :

MSVOA_D

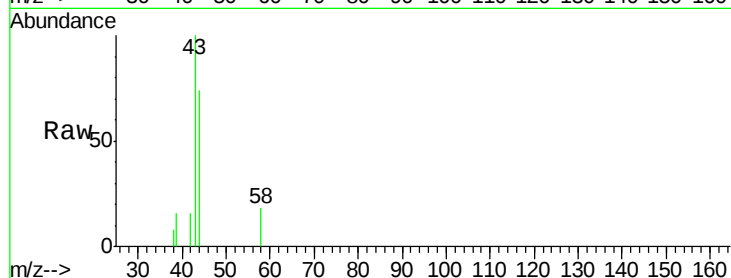
ClientSampleId :

Tot Ion: 43 Resp: 10967

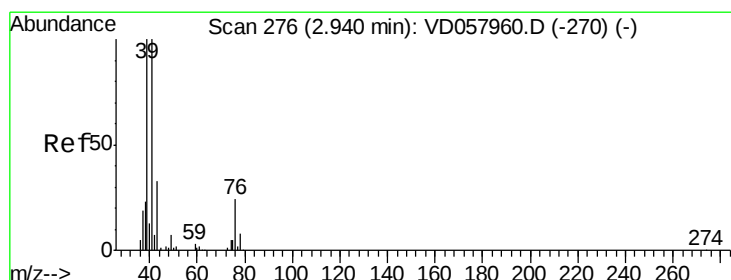
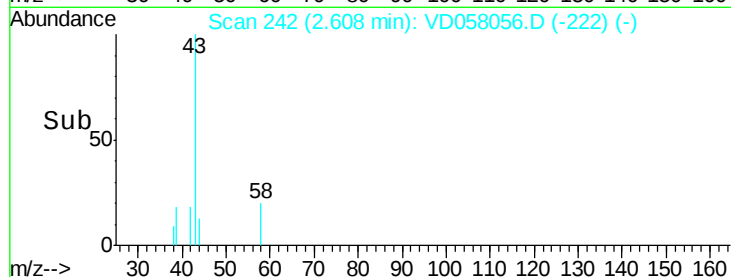
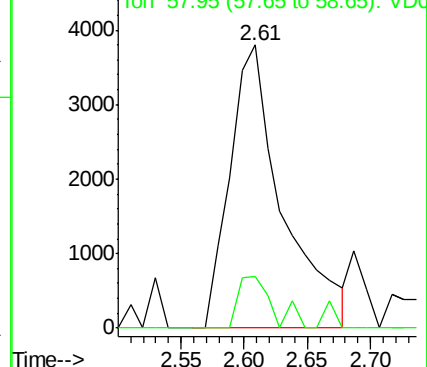
Ion Ratio Lower Upper

43 100

58 18.2 15.8 23.8



Abundance Ion 42.95 (42.65 to 43.65): VDC



#18

Methyl Acetate

Concen: 1.213 ug/l

RT: 2.93 min Scan# 275

Delta R.T. -0.01 min

Lab File: VD058056.D

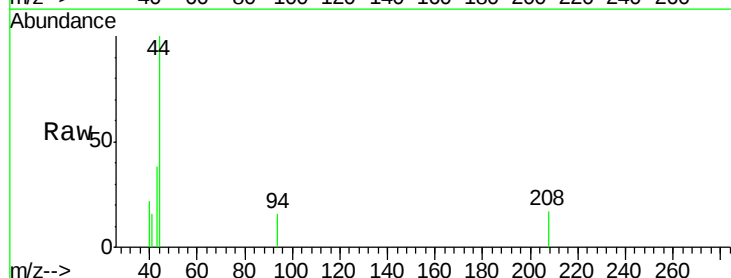
Acq: 9 Jun 2018 11:05

Tgt Ion: 43 Resp: 1908

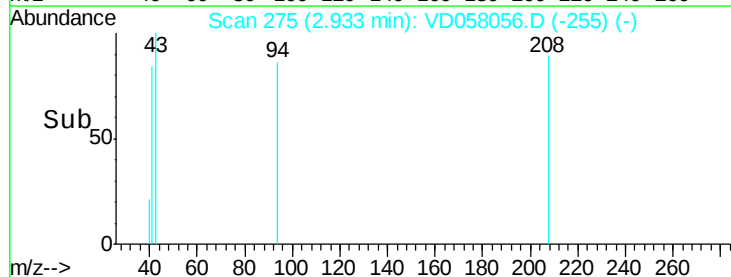
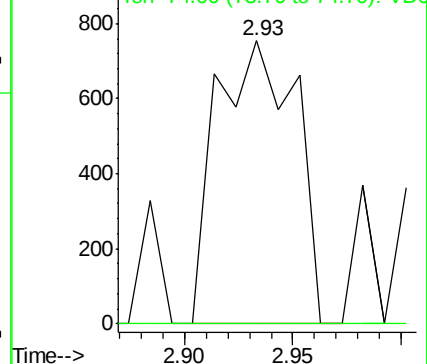
Ion Ratio Lower Upper

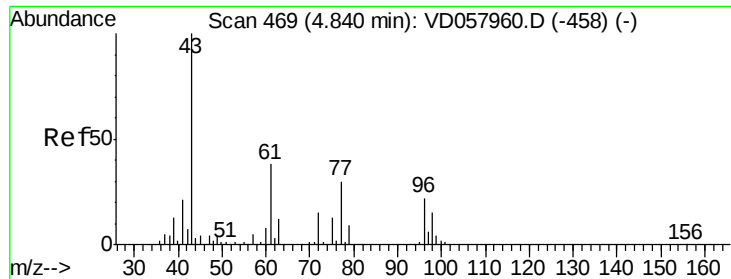
43 100

74 0.0 11.2 16.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC





#25

2-Butanone

Concen: 2.183 ug/l

RT: 4.82 min Scan# 467

Delta R.T. -0.02 min

Lab File: VD058056.D

Acq: 9 Jun 2018 11:05

Instrument :

MSVOA_D

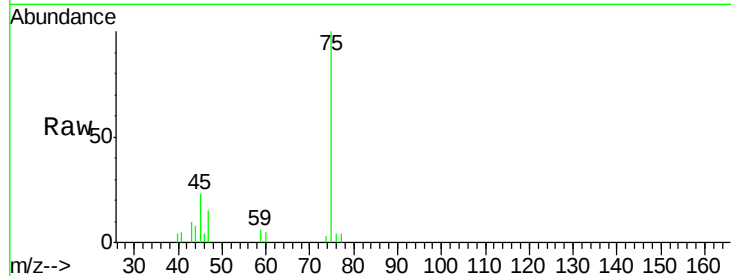
ClientSampled :

Tot Ion: 43 Resp: 4033

Ion Ratio Lower Upper

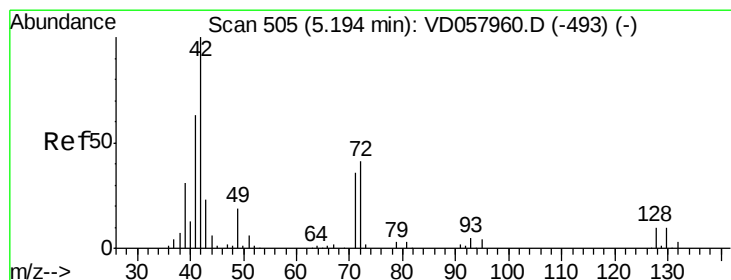
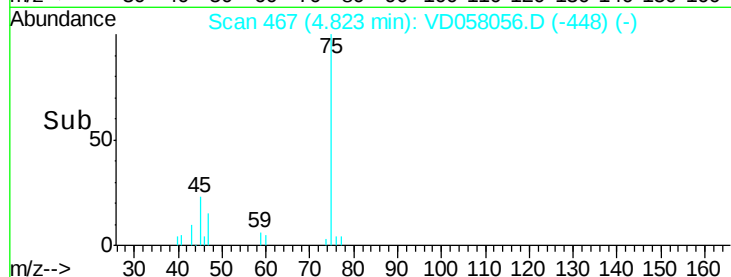
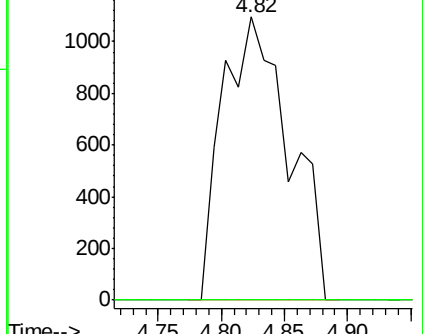
43 100

72 0.0 12.0 18.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.237 ug/l

RT: 5.18 min Scan# 503

Delta R.T. -0.02 min

Lab File: VD058056.D

Acq: 9 Jun 2018 11:05

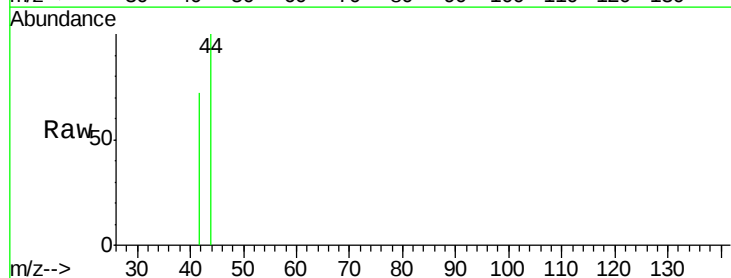
Tgt Ion: 42 Resp: 1198

Ion Ratio Lower Upper

42 100

72 0.0 28.5 42.7#

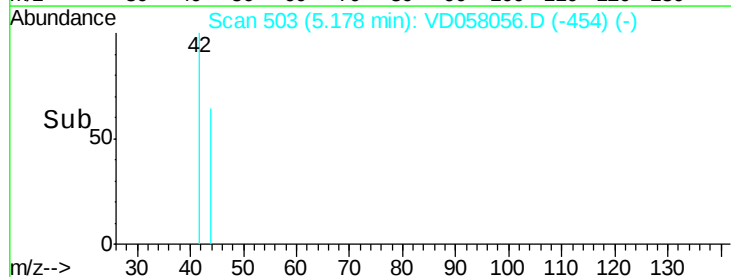
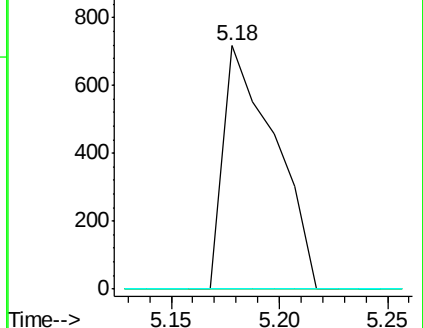
71 0.0 27.9 41.9#

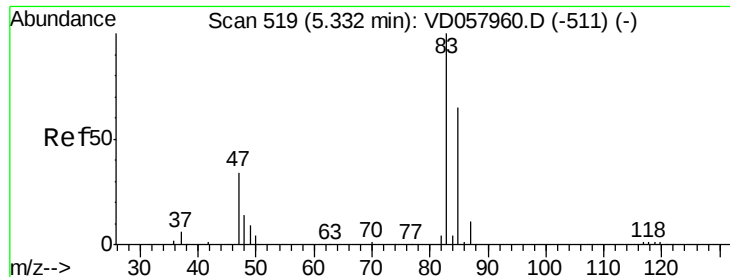


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

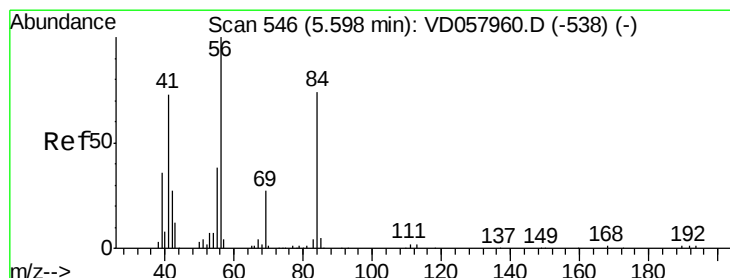
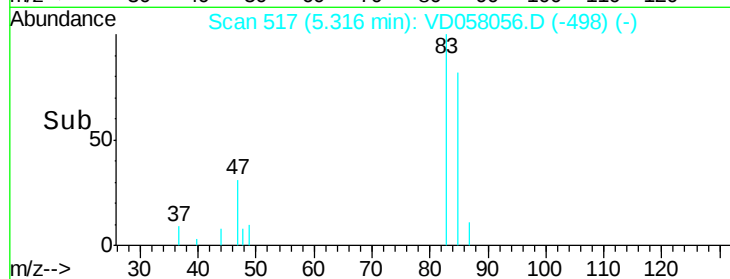
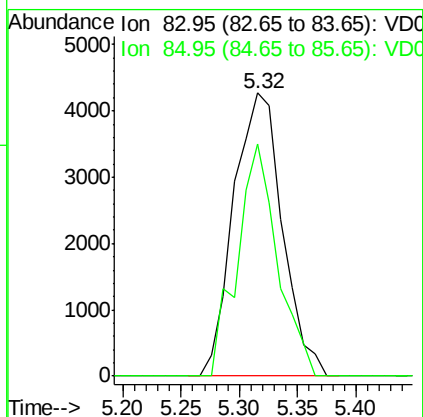
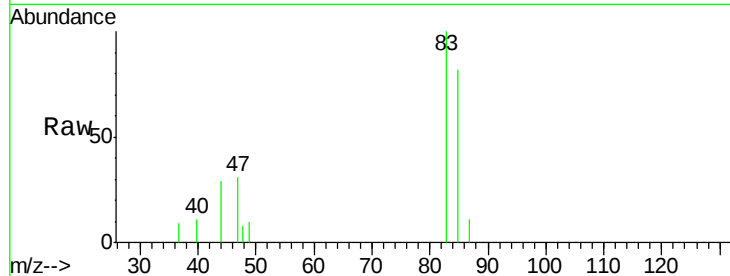




#30
Chloroform
Concen: 1.079 ug/l
RT: 5.32 min Scan# 517
Delta R.T. -0.02 min
Lab File: VD058056.D
Acq: 9 Jun 2018 11:05

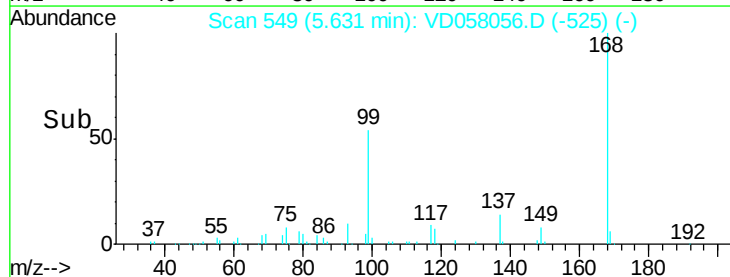
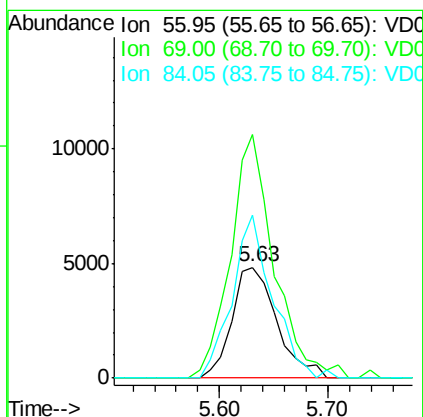
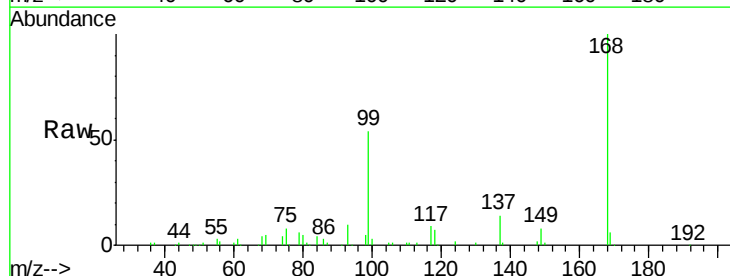
Instrument :
MSVOA_D
ClientSampleId :

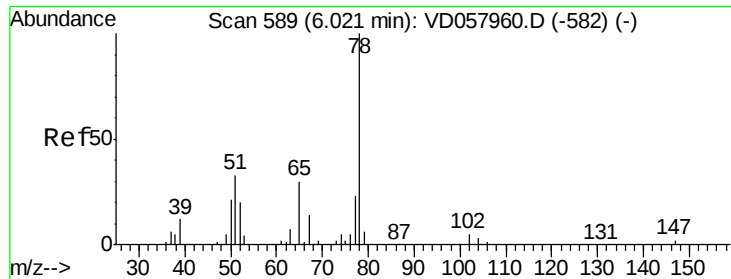
Tot Ion: 83 Resp: 12344
Ion Ratio Lower Upper
83 100
85 81.8 51.6 77.4#



#31
Cyclohexane
Concen: 1.421 ug/l
RT: 5.63 min Scan# 549
Delta R.T. 0.03 min
Lab File: VD058056.D
Acq: 9 Jun 2018 11:05

Tgt Ion: 56 Resp: 13949
Ion Ratio Lower Upper
56 100
69 219.3 21.5 32.3#
84 147.1 61.0 91.6#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.00 min Scan# 587

Delta R.T. -0.02 min

Lab File: VD058056.D

Acq: 9 Jun 2018 11:05

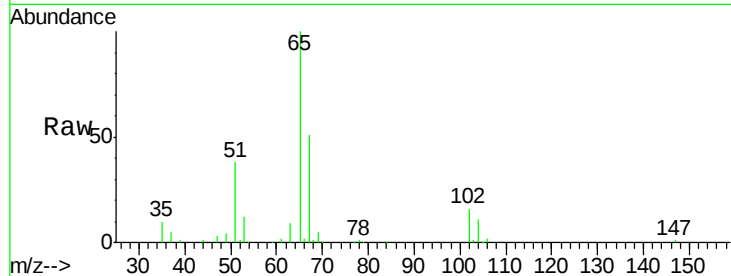
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 65 Resp: 347819

Ion Ratio Lower Upper

65 100

67 51.0 0.0 94.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.00

150000

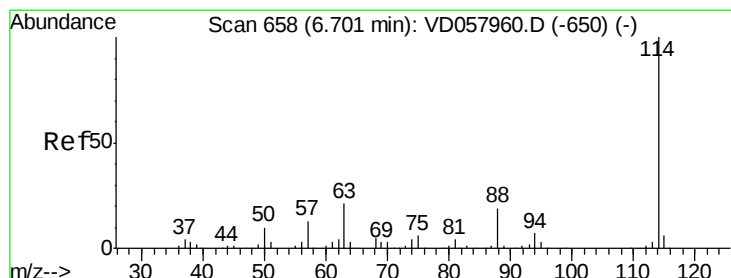
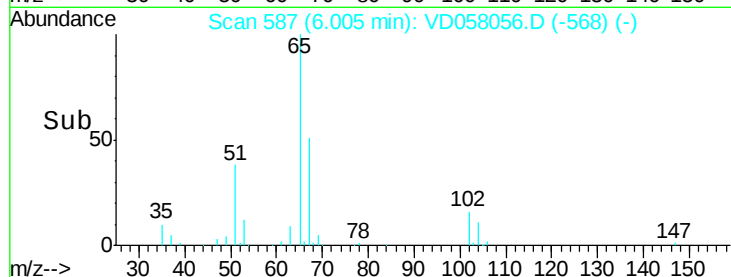
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.68 min Scan# 656

Delta R.T. -0.02 min

Lab File: VD058056.D

Acq: 9 Jun 2018 11:05

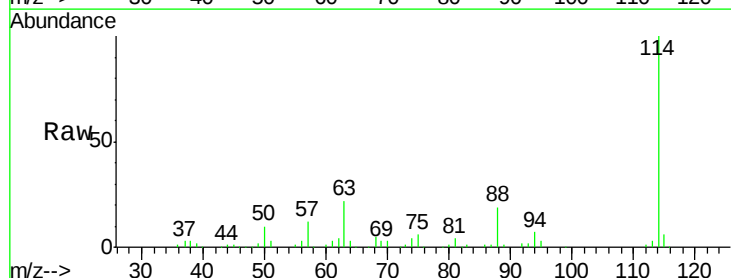
Tgt Ion: 114 Resp: 746662

Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.8

88 19.3 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

6.68

400000

300000

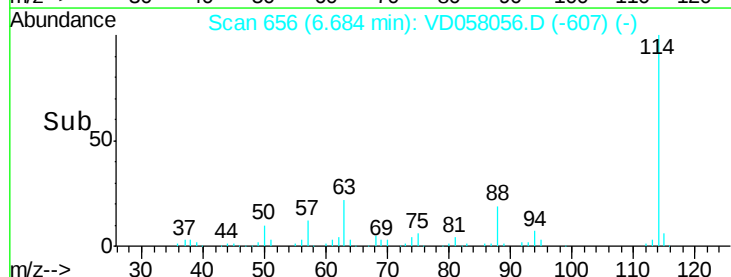
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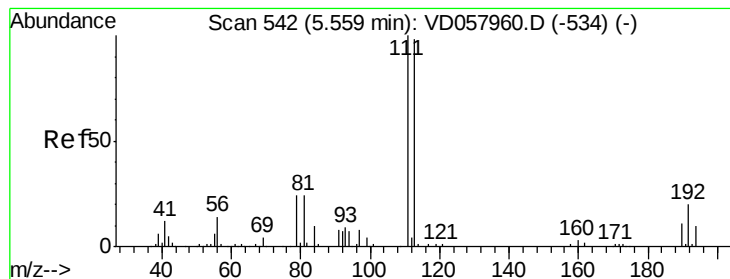
100000

0

Time-->

6.60 6.80





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.54 min Scan# 540

Delta R.T. -0.02 min

Lab File: VD058056.D

Acq: 9 Jun 2018 11:05

Instrument :
MSVOA_D
ClientSampleId :

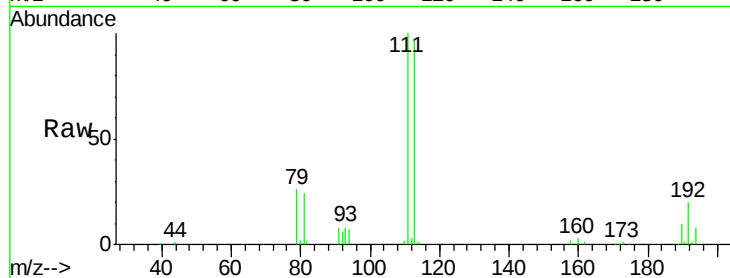
Tot Ion:113 Resp: 346170

Ion Ratio Lower Upper

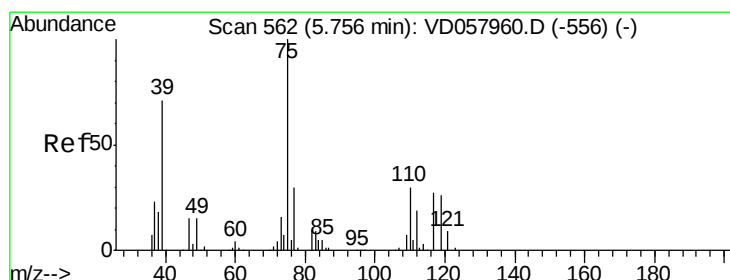
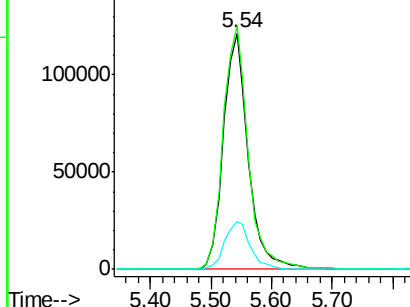
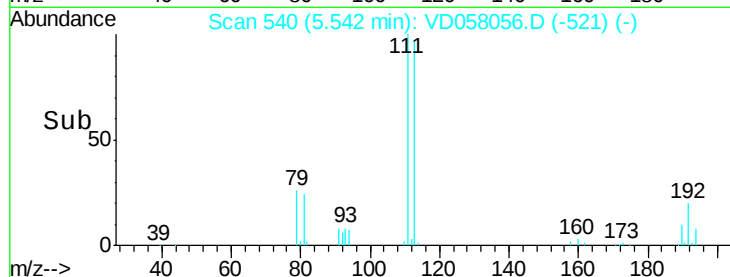
113 100

111 103.0 81.5 122.3

192 20.4 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: 5.903 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.12 min

Lab File: VD058056.D

Acq: 9 Jun 2018 11:05

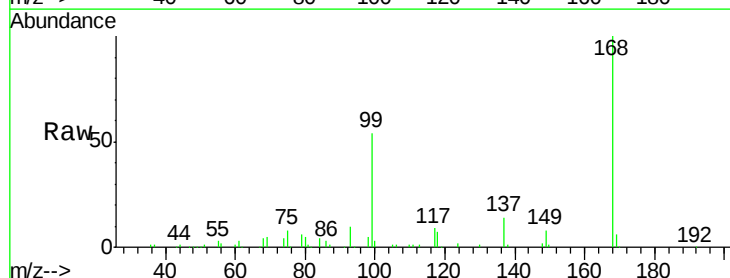
Tgt Ion: 75 Resp: 48563

Ion Ratio Lower Upper

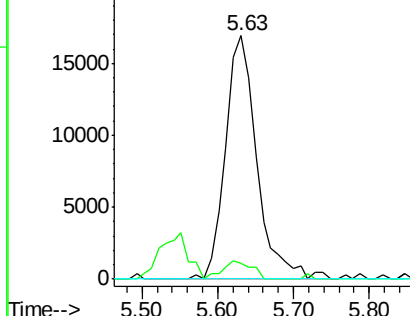
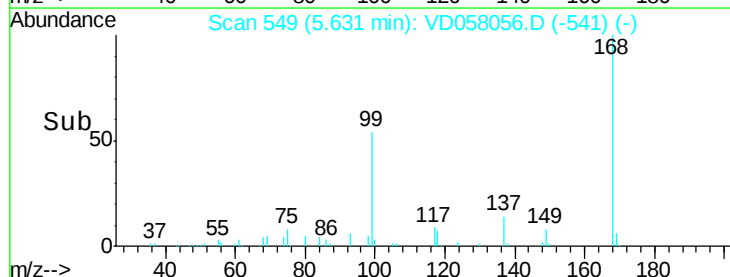
75 100

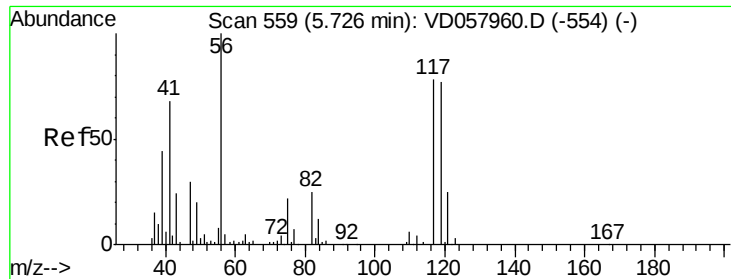
110 6.6 14.8 44.3#

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): V
Ion 76.95 (76.65 to 77.65): VDC

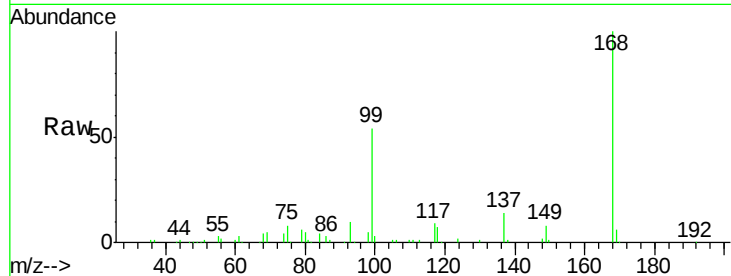




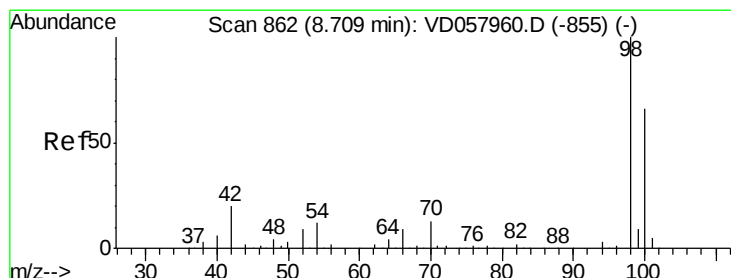
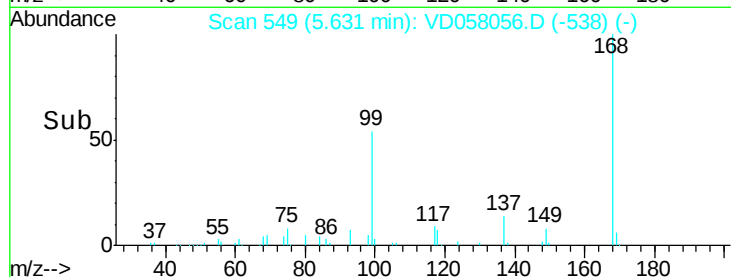
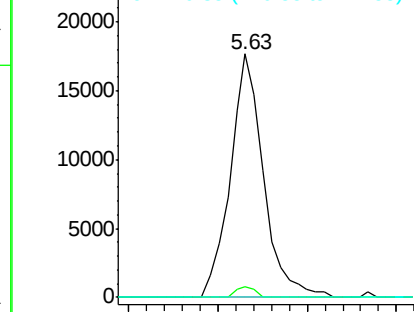
#38
Carbon Tetrachloride
Concen: 5.672 ug/l
RT: 5.63 min Scan# 549
Delta R.T. -0.10 min
Lab File: VD058056.D
Acq: 9 Jun 2018 11:05

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 45986
Ion Ratio Lower Upper
117 100
119 4.6 76.1 114.1#
121 0.0 24.9 37.3#

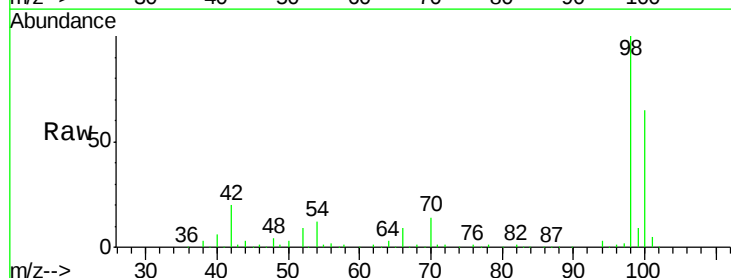


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

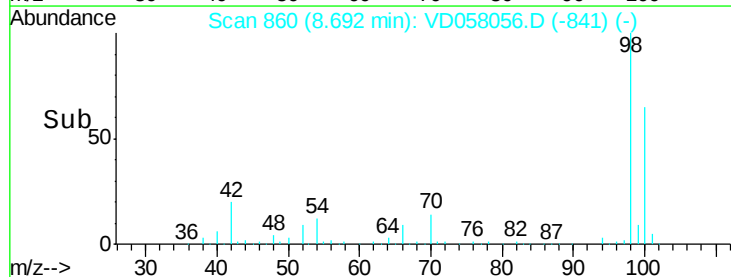
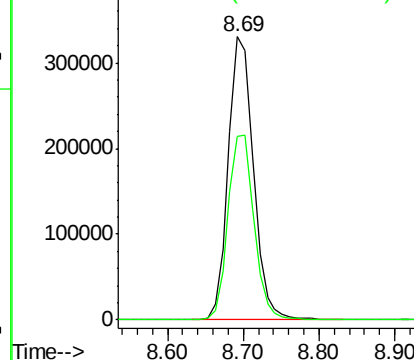


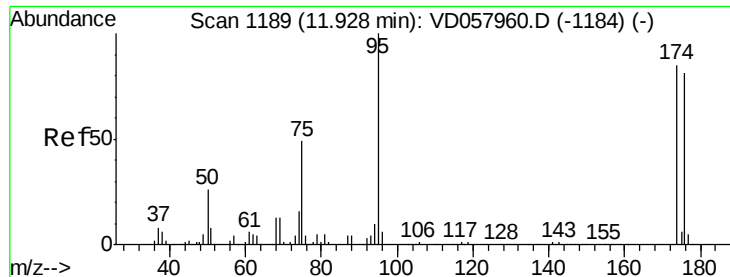
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.69 min Scan# 860
Delta R.T. -0.02 min
Lab File: VD058056.D
Acq: 9 Jun 2018 11:05

Tgt Ion: 98 Resp: 764099
Ion Ratio Lower Upper
98 100
100 64.7 53.4 80.0



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: 11.92 min Scan# 1188

Delta R.T. -0.01 min

Lab File: VD058056.D

Acq: 9 Jun 2018 11:05

Instrument :

MSVOA_D

ClientSampleId :

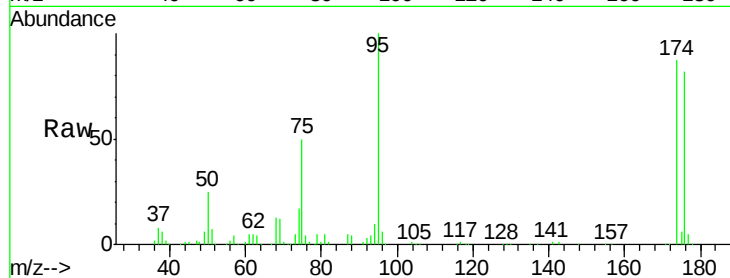
Tot Ion: 95 Resp: 313768

Ion Ratio Lower Upper

95 100

174 86.6 0.0 169.4

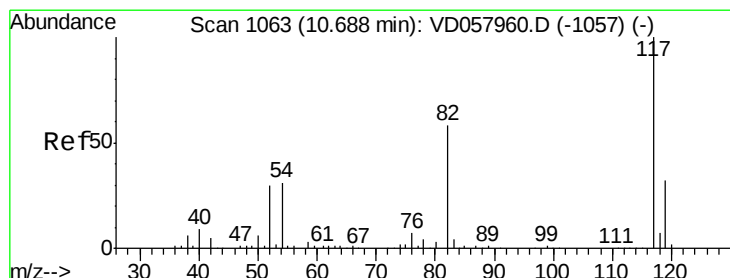
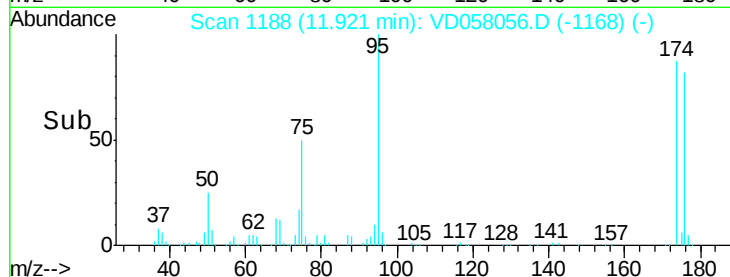
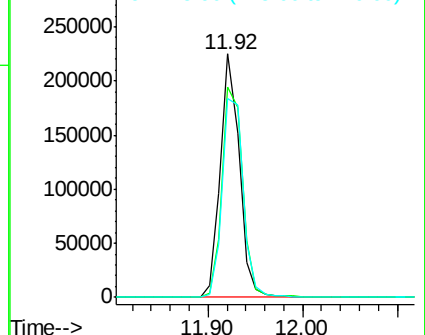
176 81.8 0.0 162.6



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: VD058056.D

Acq: 9 Jun 2018 11:05

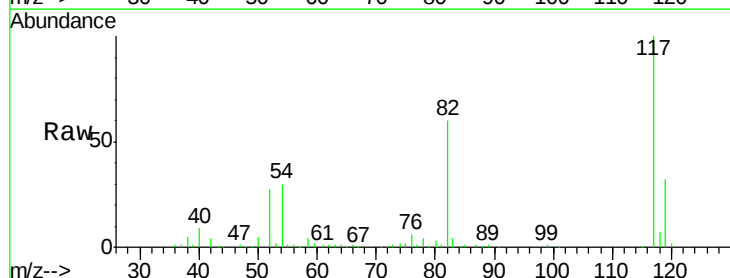
Tgt Ion: 117 Resp: 566957

Ion Ratio Lower Upper

117 100

82 59.6 46.8 70.2

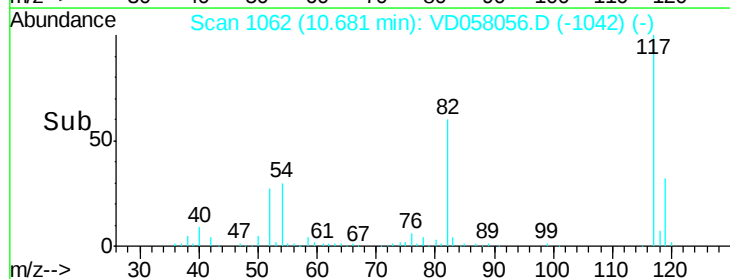
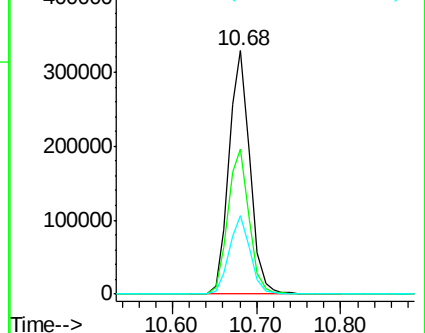
119 32.3 25.8 38.6

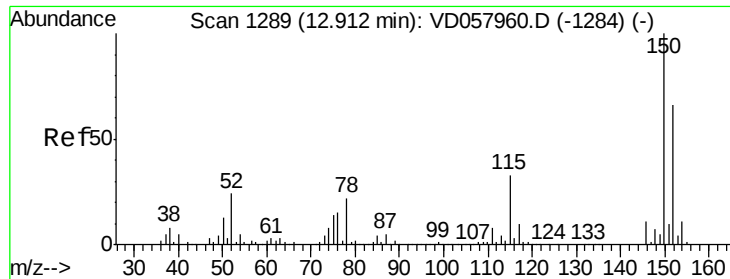


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



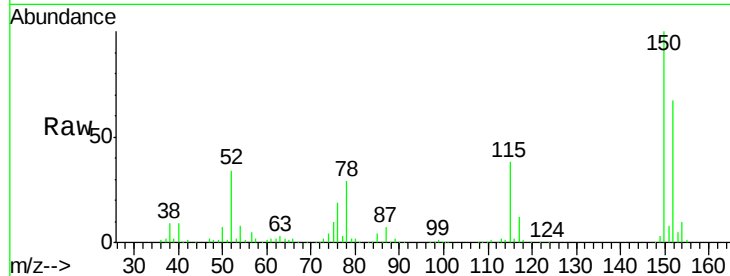


#72

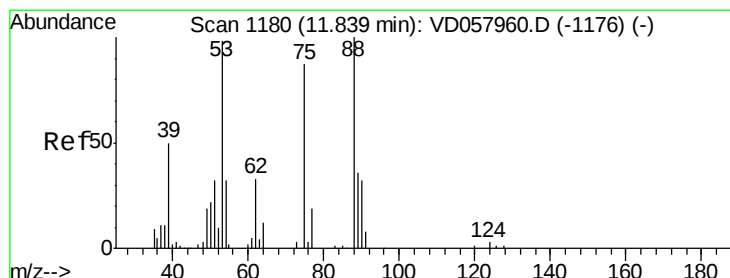
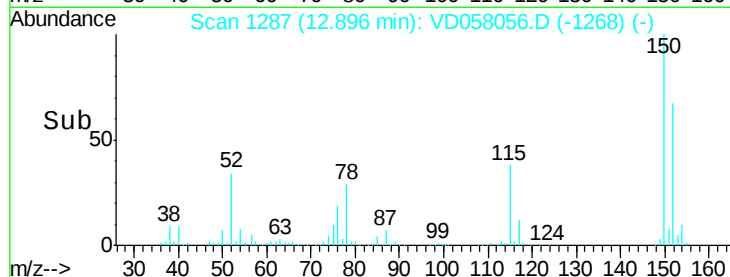
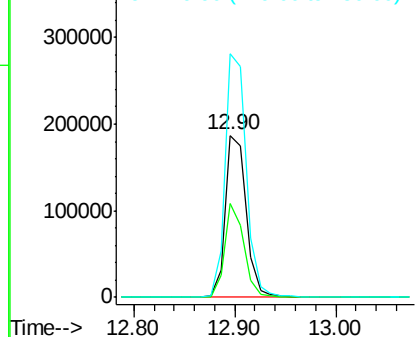
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.90 min Scan# 1287
Delta R.T. -0.02 min
Lab File: VD058056.D
Acq: 9 Jun 2018 11:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.5	25.6	76.6
150	150.1	0.0	306.8



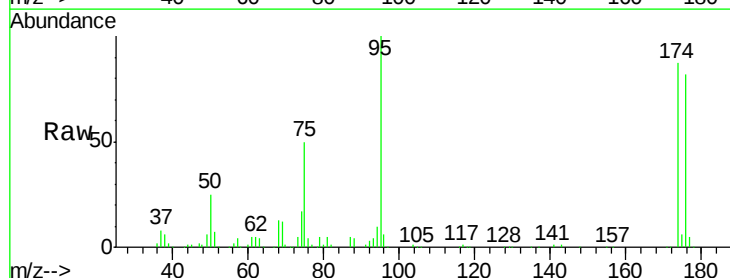
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



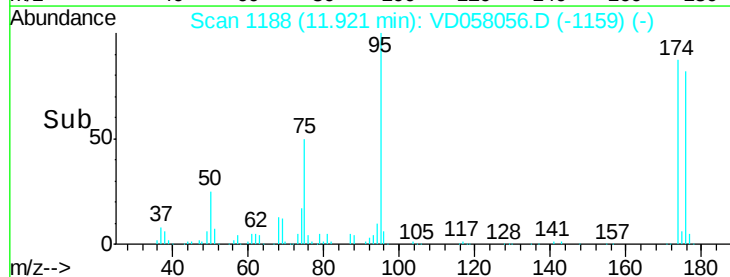
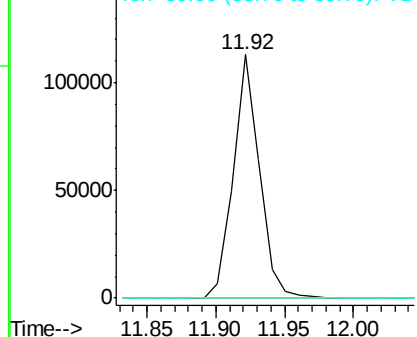
#81

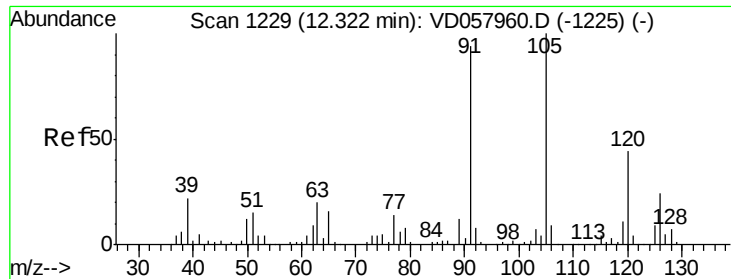
trans-1,4-Dichloro-2-butene
Concen: 148.274 ug/l
RT: 11.92 min Scan# 1188
Delta R.T. 0.08 min
Lab File: VD058056.D
Acq: 9 Jun 2018 11:05

Tgt 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: 12.31 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VD058056.D

Acq: 9 Jun 2018 11:05

Instrument :

MSVOA_D

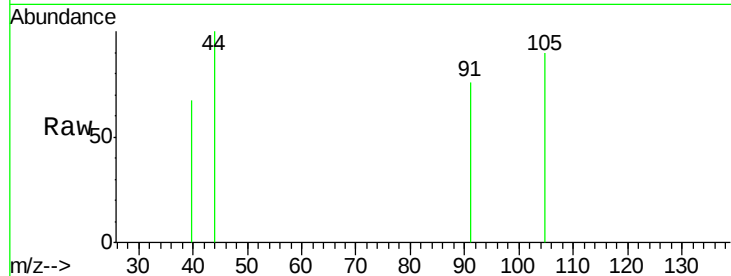
ClientSampleId :

Tot Ion: 91 Resp: 439

Ion Ratio Lower Upper

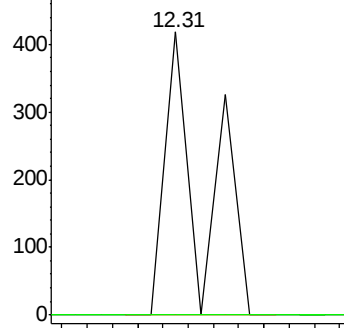
91 100

126 0.0 12.5 37.5#

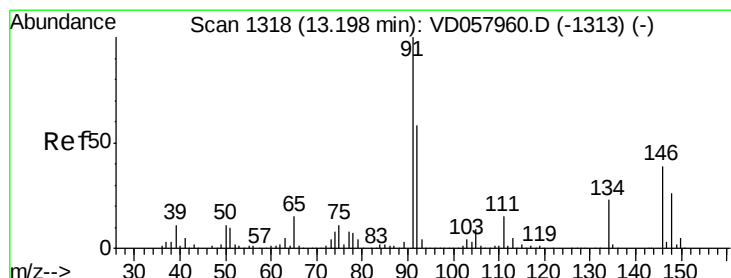
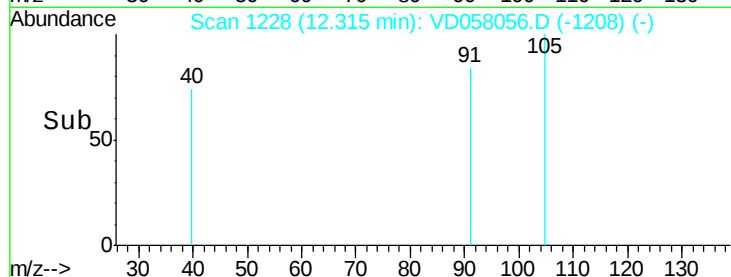


Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V



Time-->



#89

n-Butylbenzene

Concen: Below Cal

RT: 13.18 min Scan# 1316

Delta R.T. -0.02 min

Lab File: VD058056.D

Acq: 9 Jun 2018 11:05

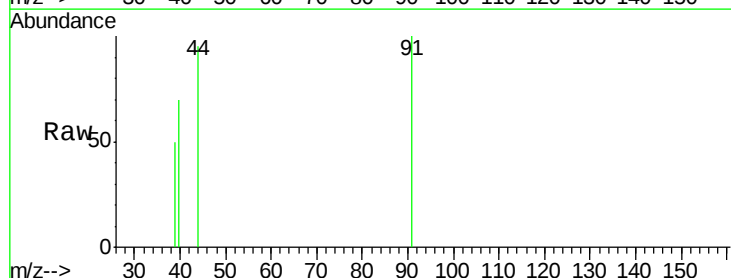
Tgt Ion: 91 Resp: 723

Ion Ratio Lower Upper

91 100

92 0.0 29.2 87.6#

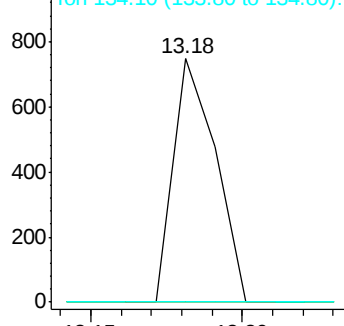
134 0.0 11.3 33.9#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): V



Time-->

