

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061518\
 Data File : VD058166.D
 Acq On : 15 Jun 2018 21:49
 Operator : VA/AP
 Sample : J3524-01
 Misc : 6.10a/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 15 23:19:50 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	549845	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	731339	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	483151	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	170805	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	368421	67.02	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	134.04%	
35) Dibromofluoromethane	5.54	113	235017	41.53	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	83.06%	
50) Toluene-d8	8.70	98	776273	57.70	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	115.40%	
62) 4-Bromofluorobenzene	11.92	95	252255	42.98	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	85.96%	

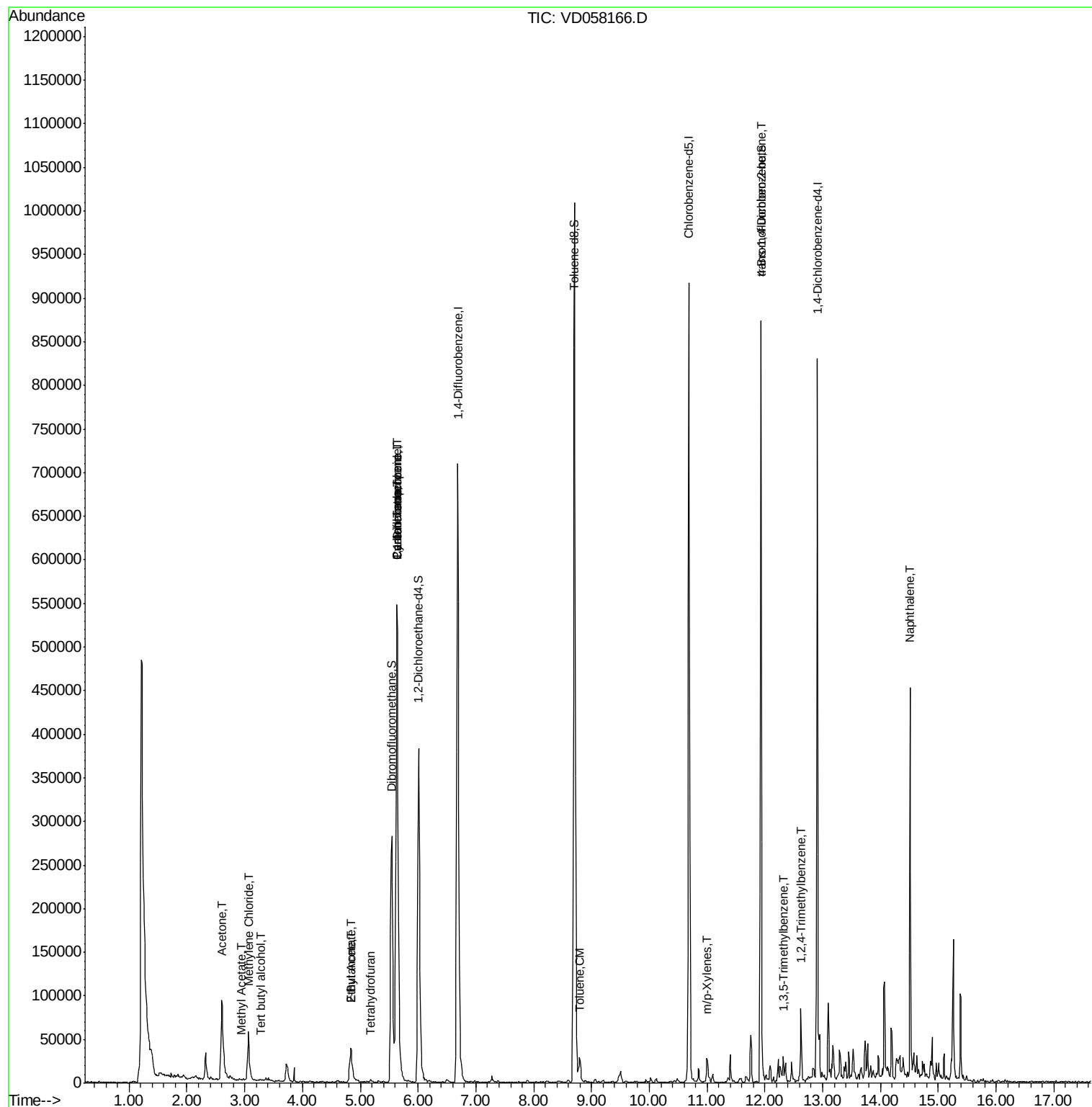
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.28	59	433	2.940	ug/l #	74
16) Acetone	2.60	43	191082	241.271	ug/l	98
18) Methyl Acetate	2.94	43	4060	2.650	ug/l #	66
20) Methylene Chloride	3.06	84	22293	4.613	ug/l #	95
25) 2-Butanone	4.83	43	28381	15.768	ug/l	98
29) Tetrahydrofuran	5.18	42	1240	1.314	ug/l #	39
31) Cyclohexane	5.63	56	13810	1.445	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	45128	5.601	ug/l #	54
37) Ethyl Acetate	4.83	43	28381	6.455	ug/l #	78
38) Carbon Tetrachloride	5.63	117	47003	5.919	ug/l #	15
52) Toluene	8.80	92	11597	1.074	ug/l	97
68) m/p-Xylenes	11.01	106	7291	1.266	ug/l #	72
80) 1,3,5-Trimethylbenzene	12.32	105	14025	1.590	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.92	75	121906	191.829	ug/l #	6
82) 4-Chlorotoluene	12.32	91	1519	Below Cal	#	50
84) 1,2,4-Trimethylbenzene	12.62	105	31845	3.357	ug/l	94
89) n-Butylbenzene	13.17	91	5792	Below Cal	#	1
95) Naphthalene	14.51	128	237482	43.066	ug/l	97

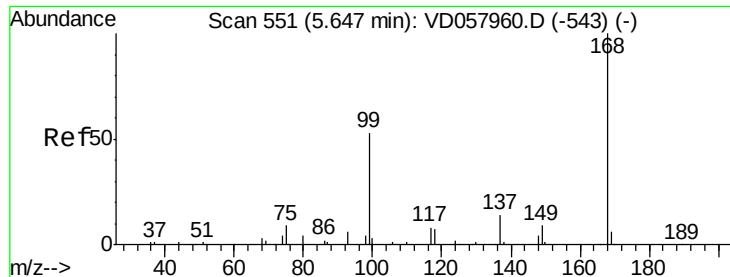
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jun 07 08:57:33 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD058166.D

Acq: 15 Jun 2018 21:49

Instrument :

MSVOA_D

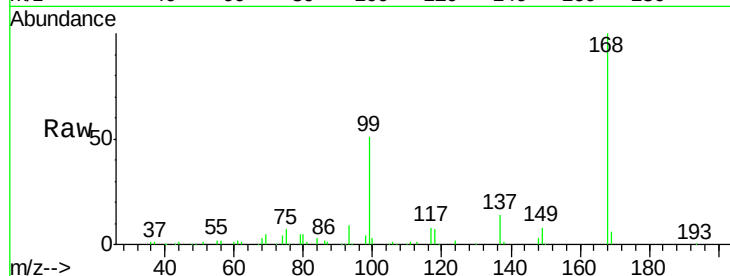
ClientSampled :

Tot Ion:168 Resp: 549845

Ion Ratio Lower Upper

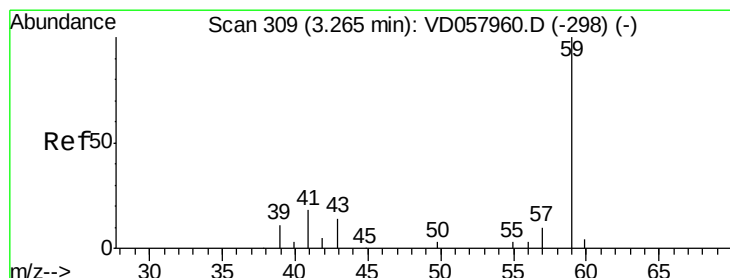
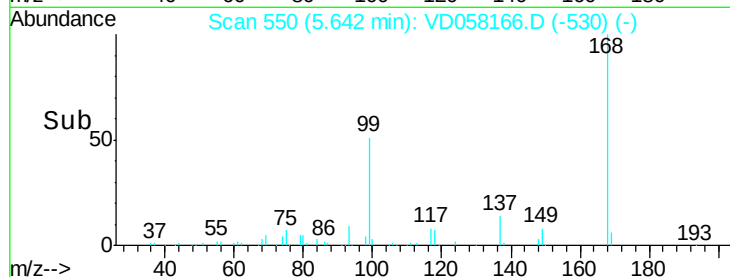
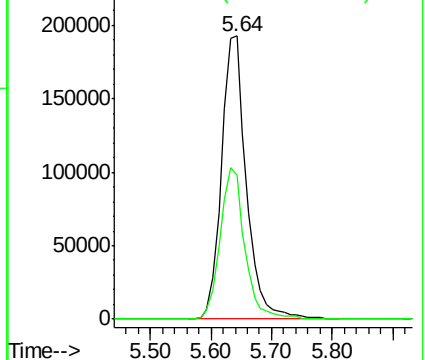
168 100

99 50.7 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 2.940 ug/l

RT: 3.28 min Scan# 310

Delta R.T. 0.01 min

Lab File: VD058166.D

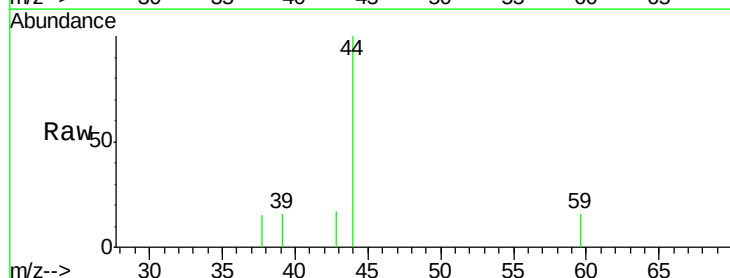
Acq: 15 Jun 2018 21:49

Tgt Ion: 59 Resp: 433

Ion Ratio Lower Upper

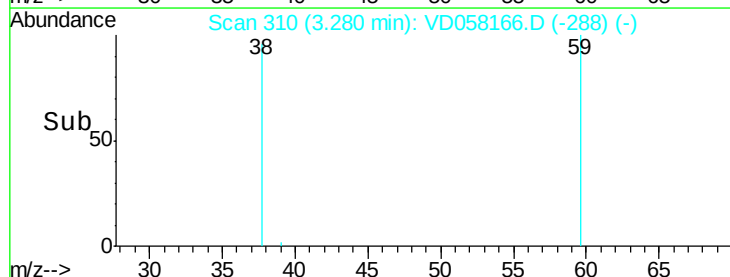
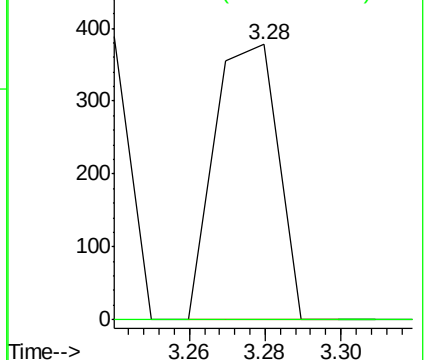
59 100

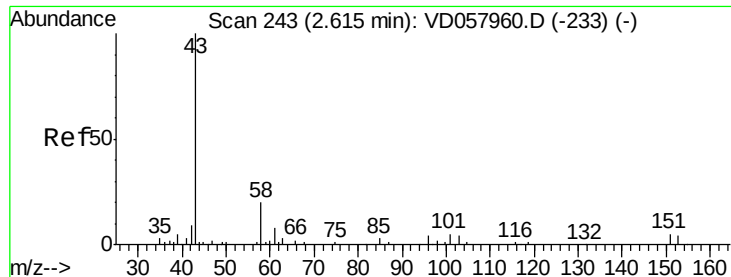
57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 241.271 ug/l

RT: 2.60 min Scan# 241

Delta R.T. -0.02 min

Lab File: VD058166.D

Acq: 15 Jun 2018 21:49

Instrument :

MSVOA_D

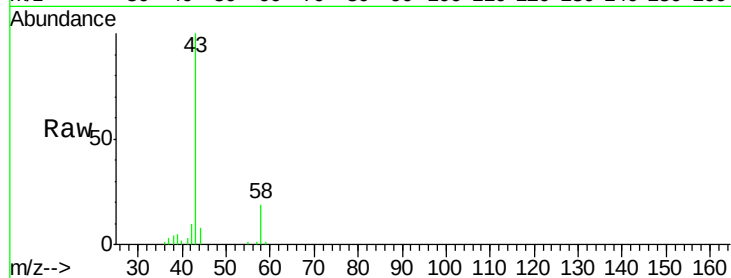
ClientSampleId :

Tot Ion: 43 Resp: 191082

Ion Ratio Lower Upper

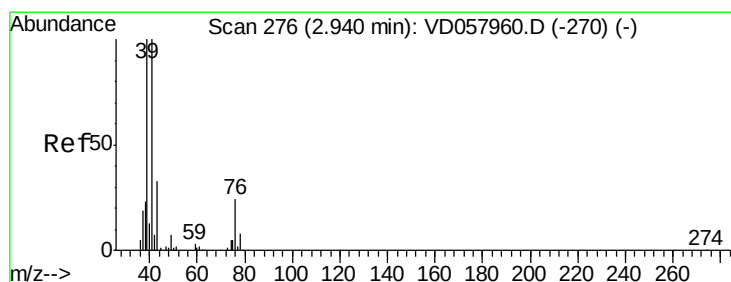
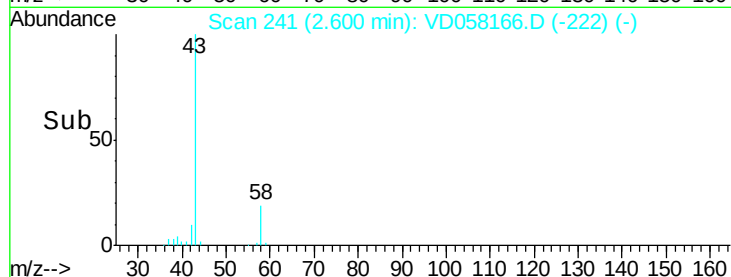
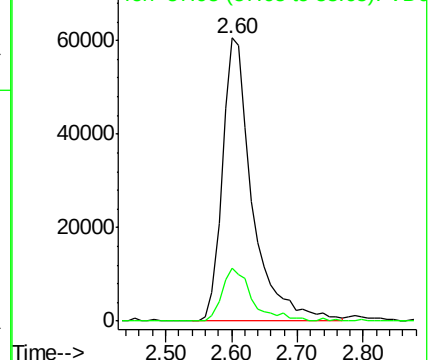
43 100

58 18.7 15.8 23.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 2.650 ug/l

RT: 2.94 min Scan# 276

Delta R.T. 0.00 min

Lab File: VD058166.D

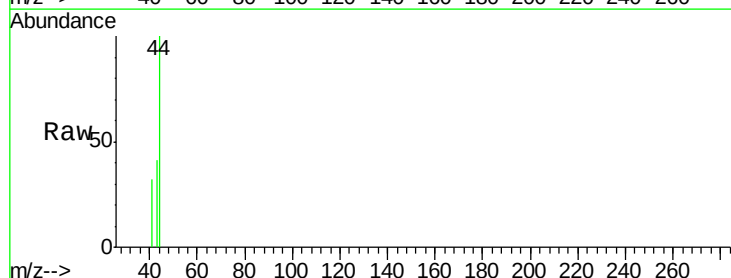
Acq: 15 Jun 2018 21:49

Tgt Ion: 43 Resp: 4060

Ion Ratio Lower Upper

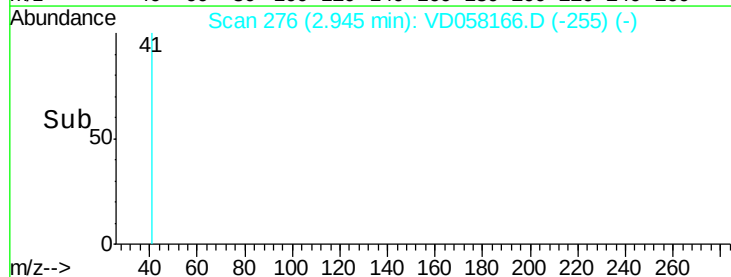
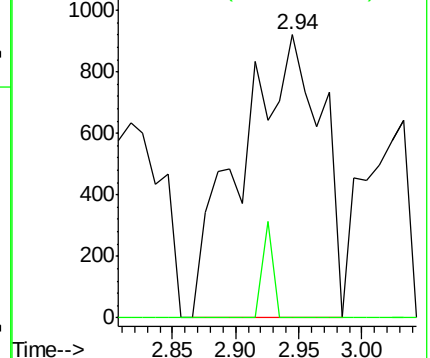
43 100

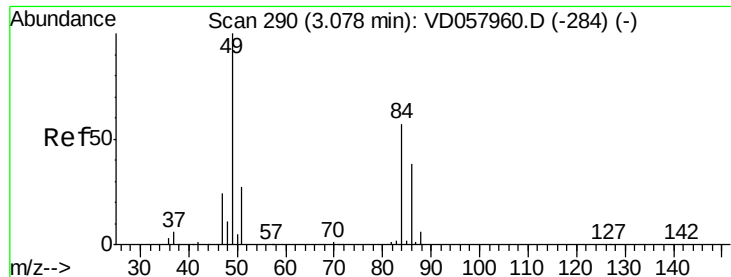
74 0.0 11.2 16.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methvlene Chloride

Concen: 4.613 ug/l

RT: 3.06 min Scan# 288

Delta R.T. -0.01 min

Lab File: VD058166.D

Acq: 15 Jun 2018 21:49

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 22293

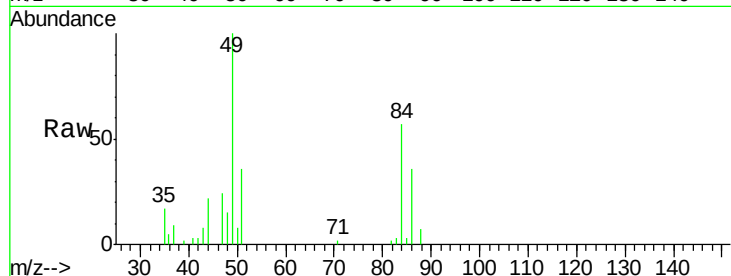
Ion Ratio Lower Upper

84 100

49 177.0 141.4 212.0

51 64.2 38.3 57.5#

86 64.3 52.9 79.3

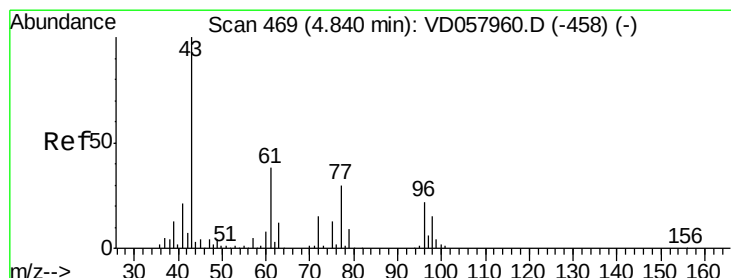
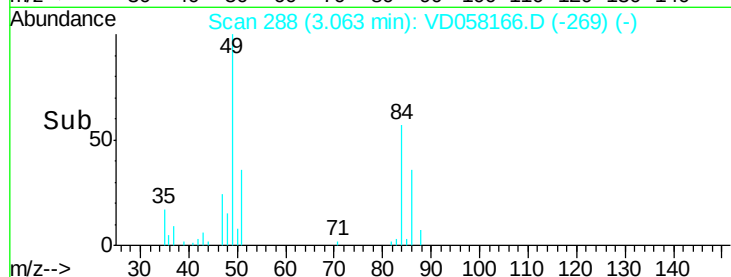
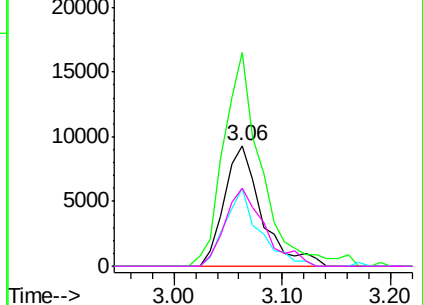


Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 15.768 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058166.D

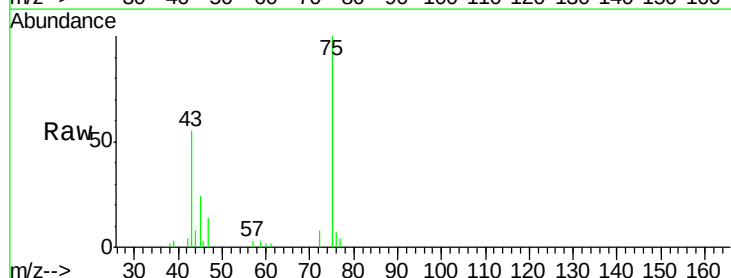
Acq: 15 Jun 2018 21:49

Tgt Ion: 43 Resp: 28381

Ion Ratio Lower Upper

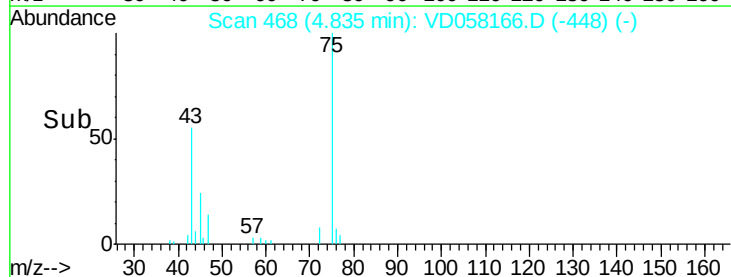
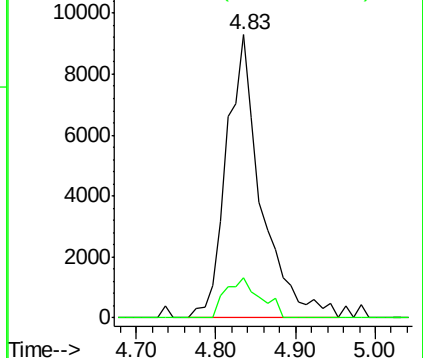
43 100

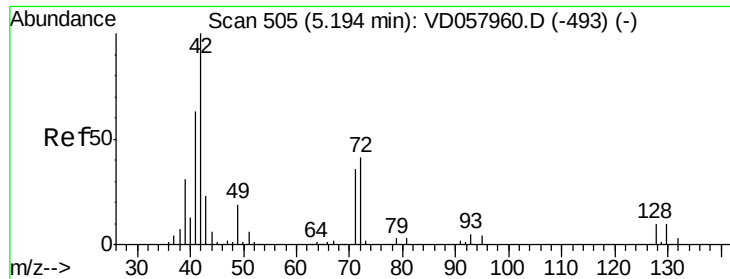
72 14.2 12.0 18.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

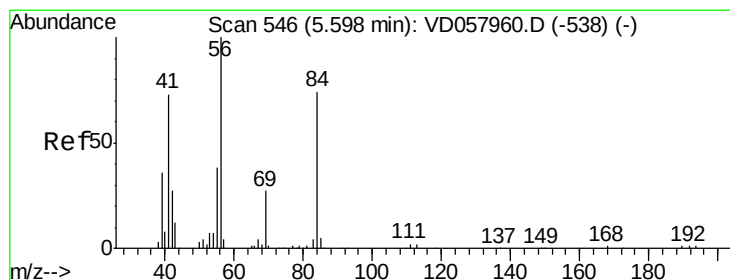
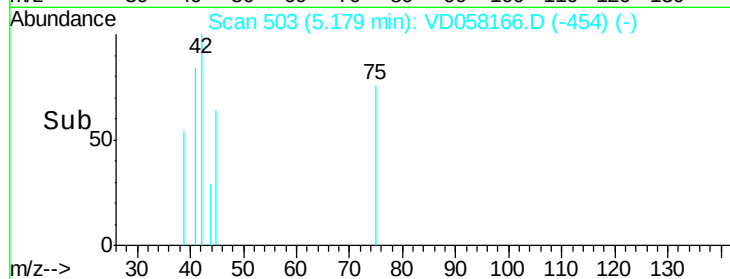
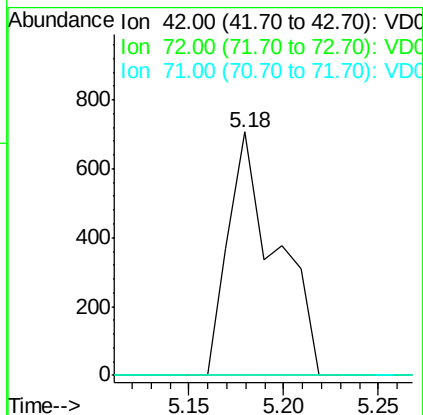
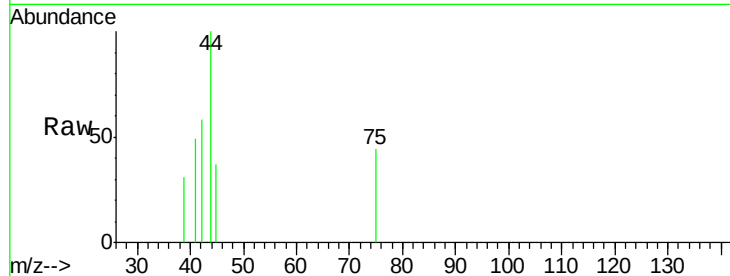




#29
Tetrahydrofuran
Concen: 1.314 ug/l
RT: 5.18 min Scan# 503
Delta R.T. -0.02 min
Lab File: VD058166.D
Acq: 15 Jun 2018 21:49

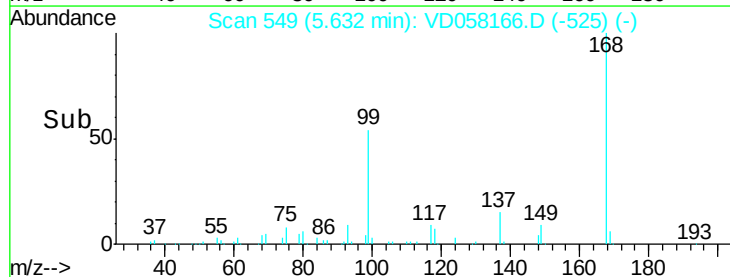
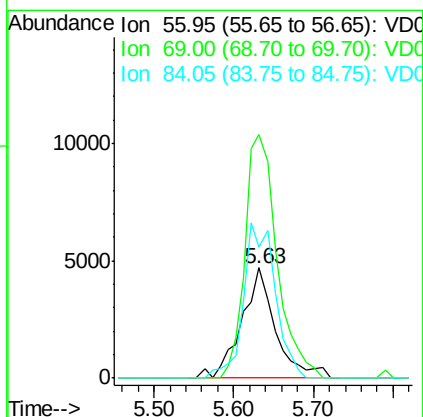
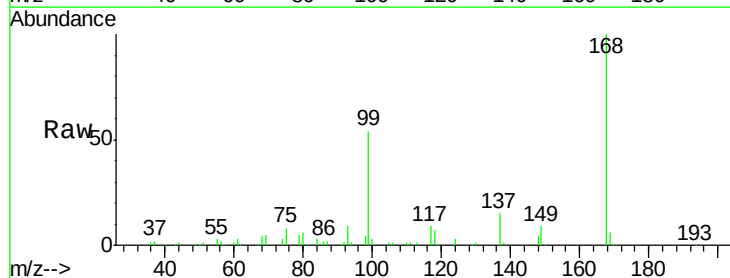
Instrument :
MSVOA_D
ClientSampled :

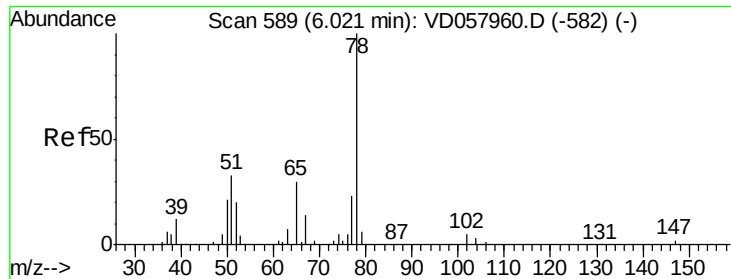
Tot Ion: 42 Resp: 1240
Ion Ratio Lower Upper
42 100
72 0.0 28.5 42.7#
71 0.0 27.9 41.9#



#31
Cyclohexane
Concen: 1.445 ug/l
RT: 5.63 min Scan# 549
Delta R.T. 0.03 min
Lab File: VD058166.D
Acq: 15 Jun 2018 21:49

Tgt Ion: 56 Resp: 13810
Ion Ratio Lower Upper
56 100
69 221.5 21.5 32.3#
84 119.2 61.0 91.6#

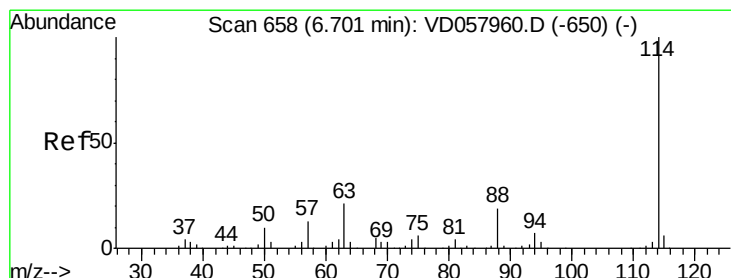
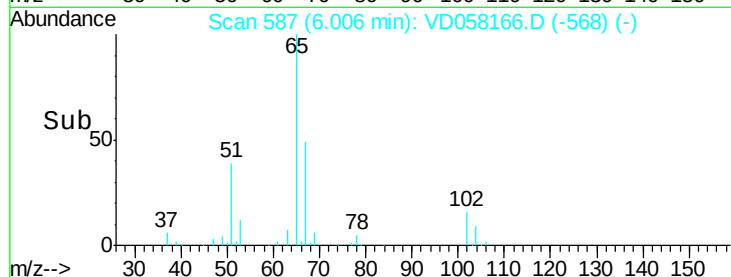
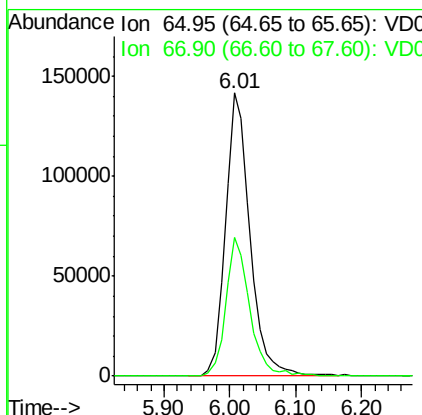
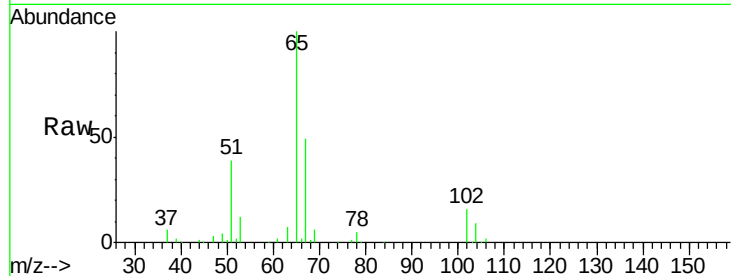




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.01 min Scan# 587
 Delta R.T. -0.02 min
 Lab File: VD058166.D
 Acq: 15 Jun 2018 21:49

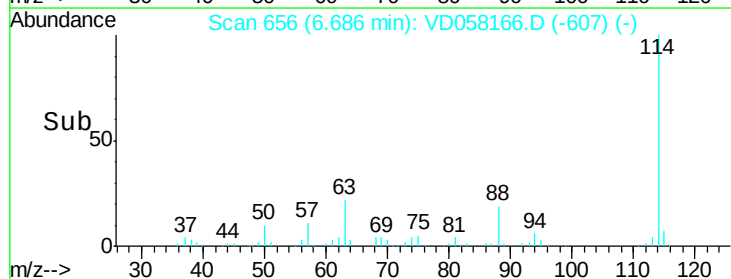
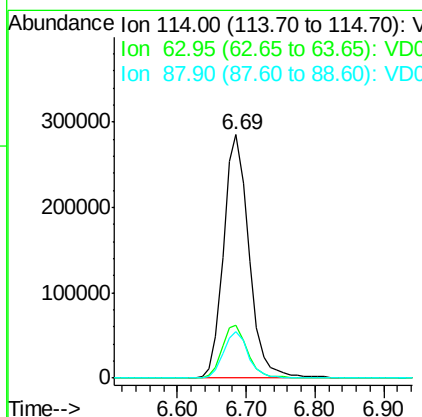
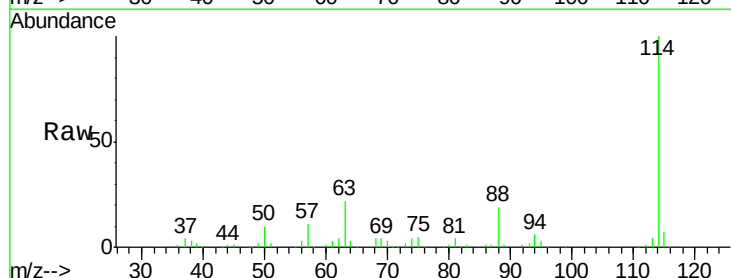
Instrument :
 MSVOA_D
 ClientSampleId :

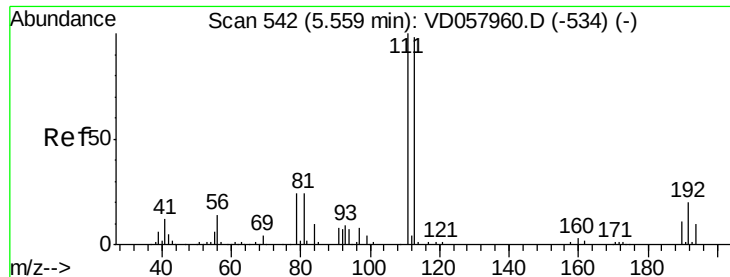
Tot Ion: 65 Resp: 368421
 Ion Ratio Lower Upper
 65 100
 67 48.9 0.0 94.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 656
 Delta R.T. -0.02 min
 Lab File: VD058166.D
 Acq: 15 Jun 2018 21:49

Tgt Ion: 114 Resp: 731339
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 42.8
 88 19.0 0.0 37.8

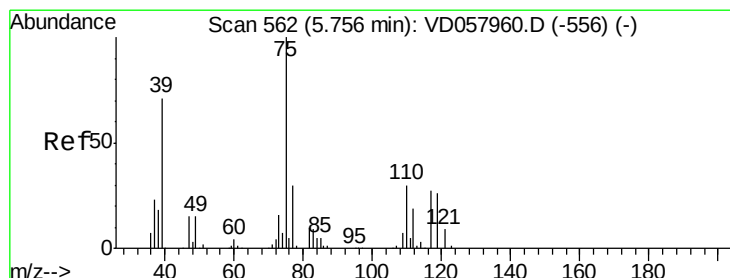
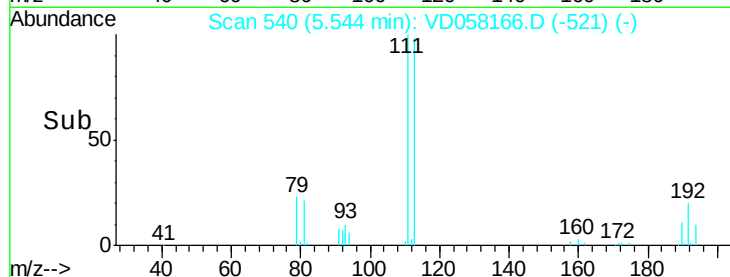
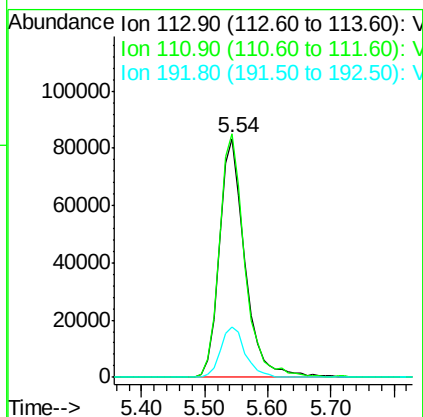
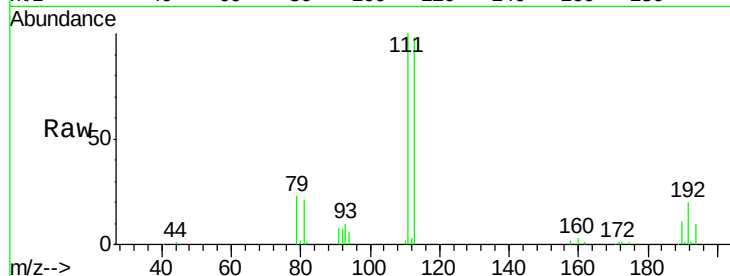




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.54 min Scan# 540
 Delta R.T. -0.02 min
 Lab File: VD058166.D
 Acq: 15 Jun 2018 21:49

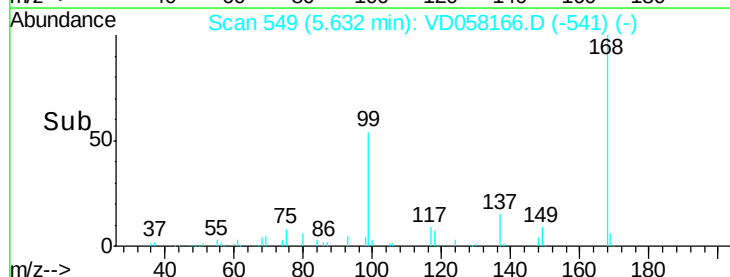
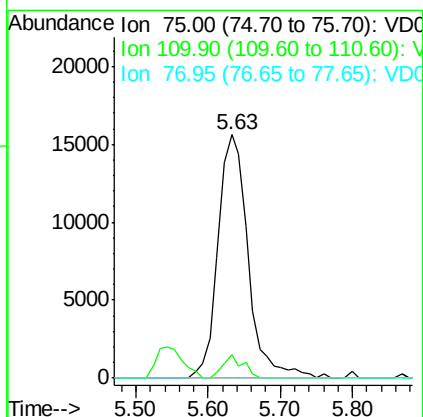
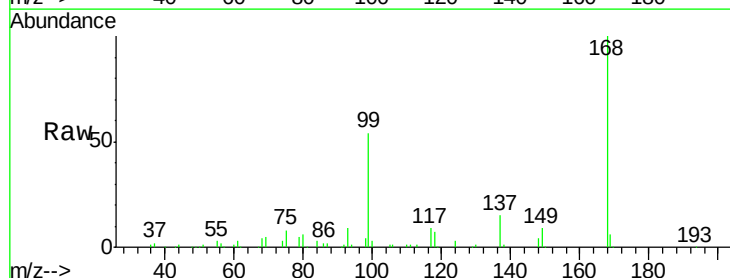
Instrument :
 MSVOA_D
 ClientSampleId :

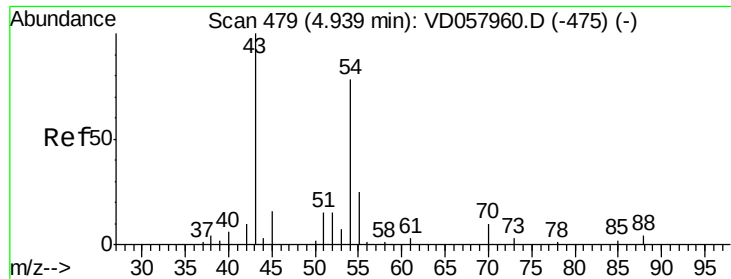
Tot Ion:113 Resp: 235017
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.5 122.3
 192 21.3 16.4 24.6



#36
 1,1-Dichloropropene
 Concen: 5.601 ug/l
 RT: 5.63 min Scan# 549
 Delta R.T. -0.12 min
 Lab File: VD058166.D
 Acq: 15 Jun 2018 21:49

Tgt Ion: 75 Resp: 45128
 Ion Ratio Lower Upper
 75 100
 110 9.7 14.8 44.3#
 77 0.0 23.9 35.9#

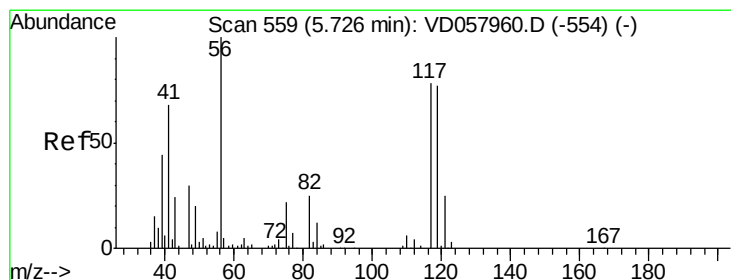
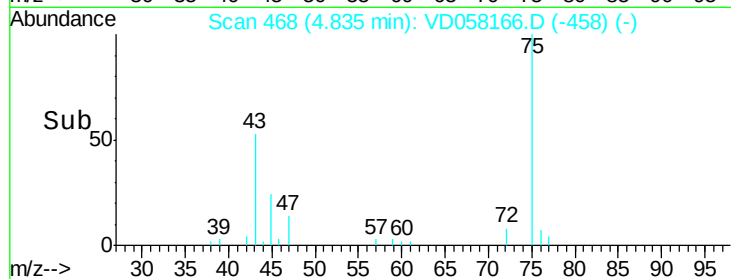
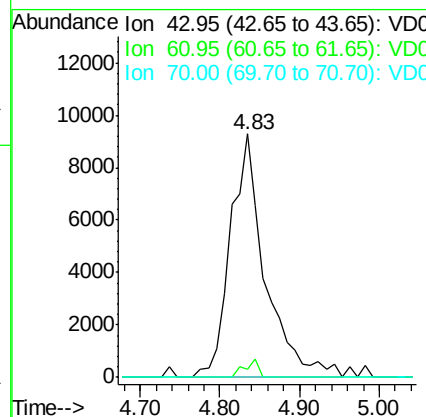
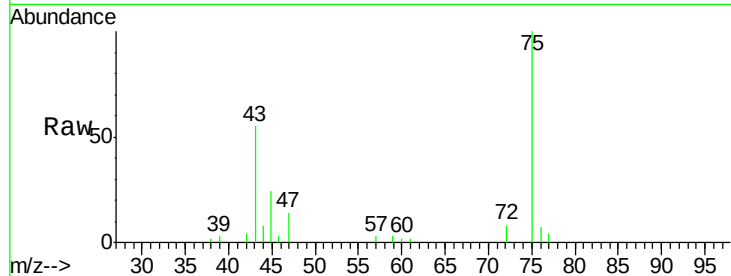




#37
Ethyl Acetate
Concen: 6.455 ug/l
RT: 4.83 min Scan# 468
Delta R.T. -0.10 min
Lab File: VD058166.D
Acq: 15 Jun 2018 21:49

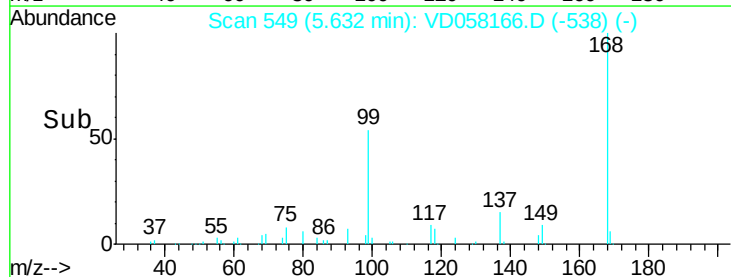
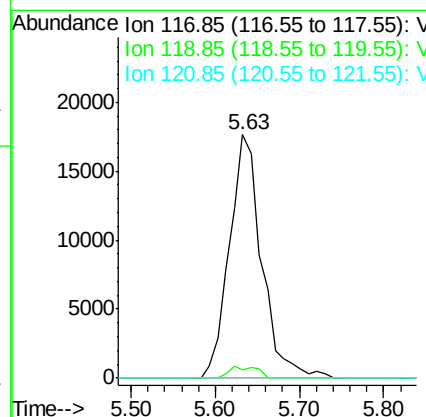
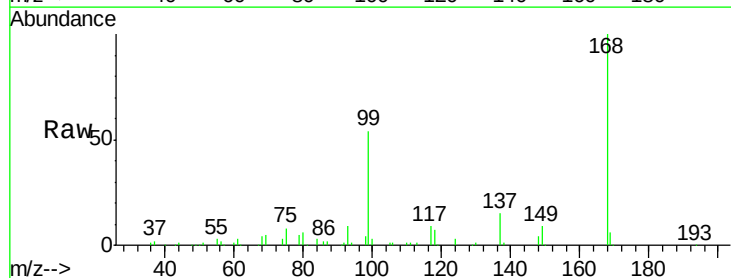
Instrument :
MSVOA_D
ClientSampleId :

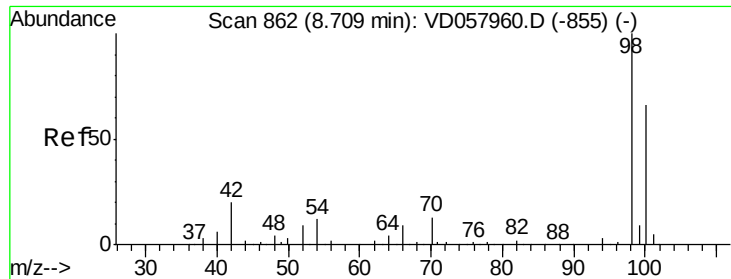
Tot Ion: 43 Resp: 28381
Ion Ratio Lower Upper
43 100
61 3.3 9.9 14.9#
70 0.0 5.7 8.5#



#38
Carbon Tetrachloride
Concen: 5.919 ug/l
RT: 5.63 min Scan# 549
Delta R.T. -0.09 min
Lab File: VD058166.D
Acq: 15 Jun 2018 21:49

Tgt Ion: 117 Resp: 47003
Ion Ratio Lower Upper
117 100
119 3.4 76.1 114.1#
121 0.0 24.9 37.3#

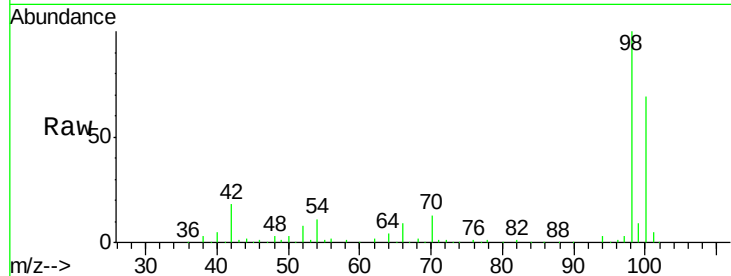




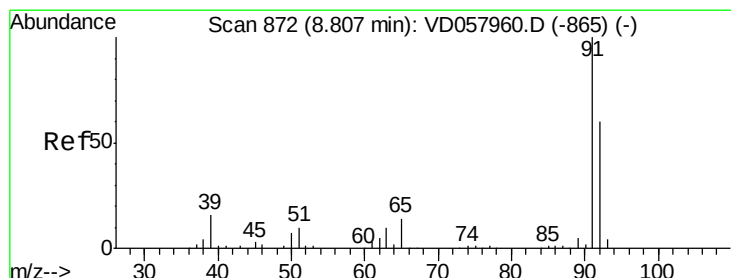
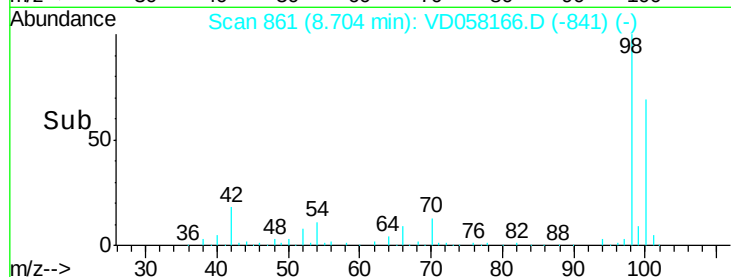
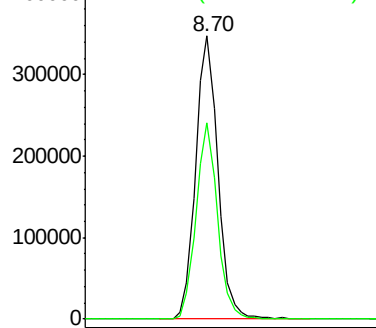
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.70 min Scan# 861
Delta R.T. -0.01 min
Lab File: VD058166.D
Acq: 15 Jun 2018 21:49

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 776273
Ion Ratio Lower Upper
98 100
100 69.4 53.4 80.0

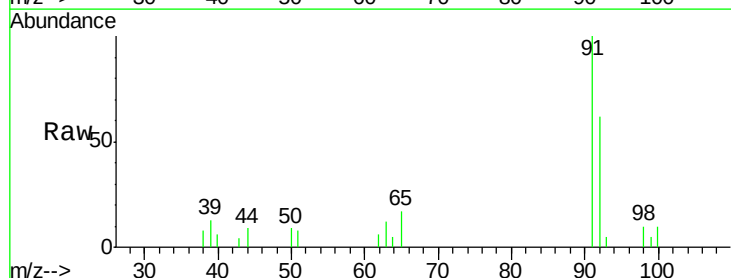


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

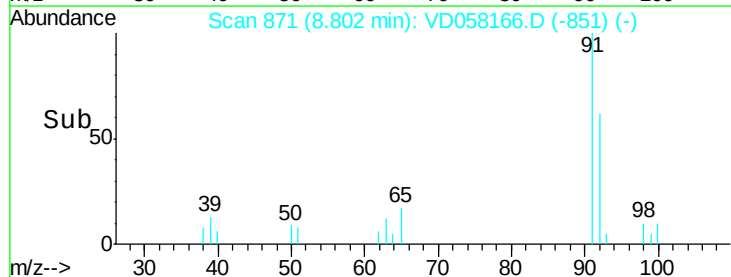
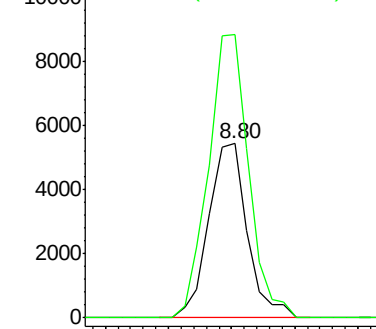


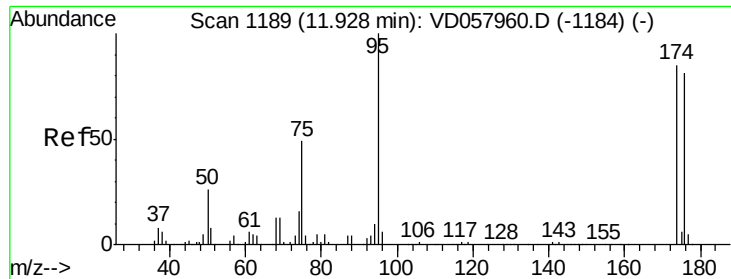
#52
Toluene
Concen: 1.074 ug/l
RT: 8.80 min Scan# 871
Delta R.T. -0.01 min
Lab File: VD058166.D
Acq: 15 Jun 2018 21:49

Tgt Ion: 92 Resp: 11597
Ion Ratio Lower Upper
92 100
91 162.4 133.0 199.6



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.92 min Scan# 1188

Delta R.T. -0.01 min

Lab File: VD058166.D

Acq: 15 Jun 2018 21:49

Instrument :

MSVOA_D

ClientSampled :

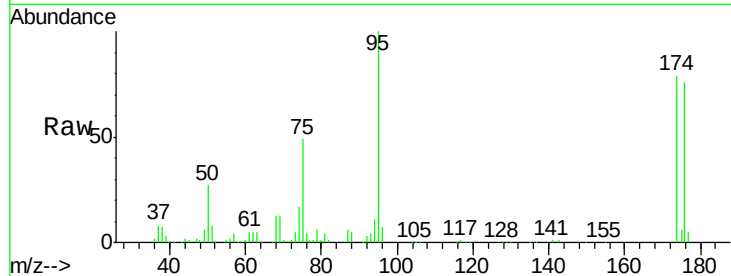
Tot Ion: 95 Resp: 252255

Ion Ratio Lower Upper

95 100

174 78.6 0.0 169.4

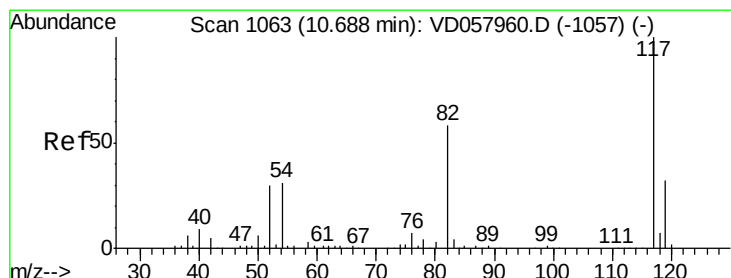
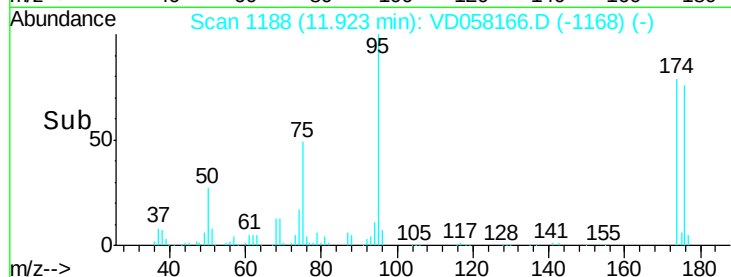
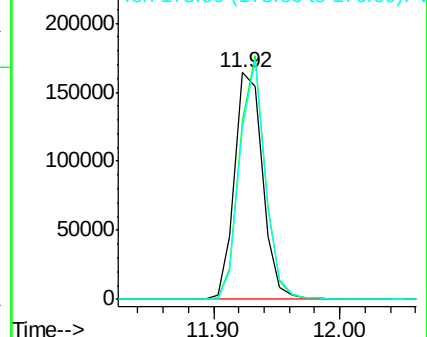
176 75.7 0.0 162.6



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: VD058166.D

Acq: 15 Jun 2018 21:49

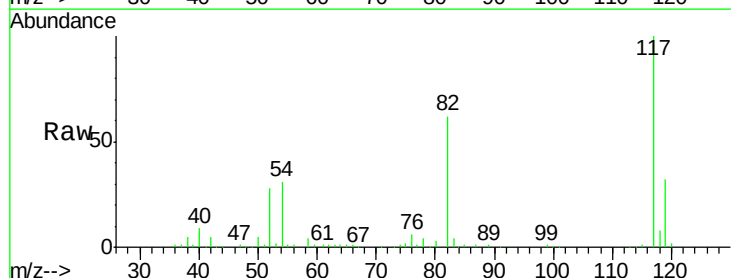
Tgt Ion: 117 Resp: 483151

Ion Ratio Lower Upper

117 100

82 62.4 46.8 70.2

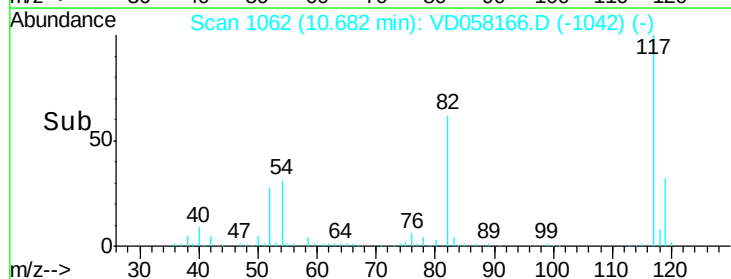
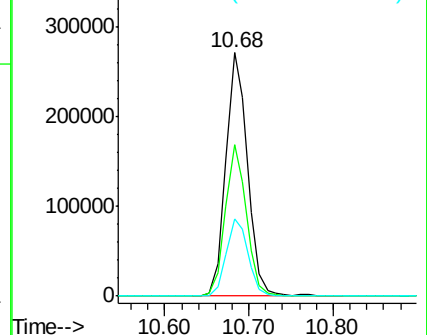
119 31.7 25.8 38.6

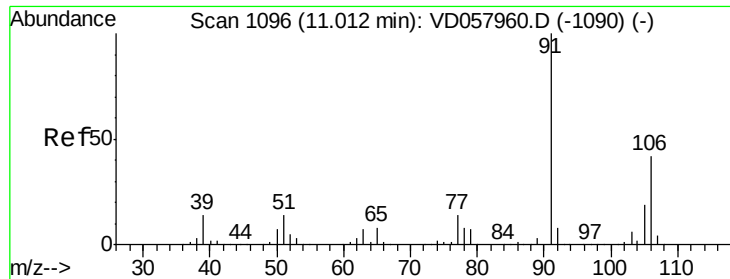


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

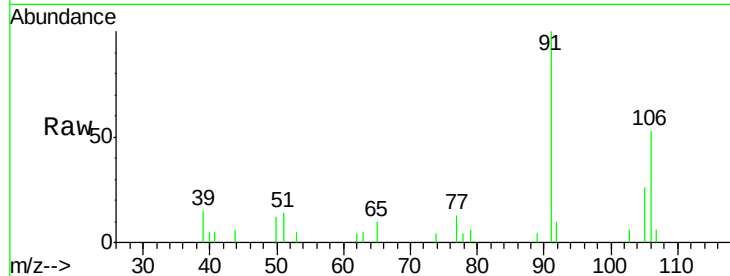




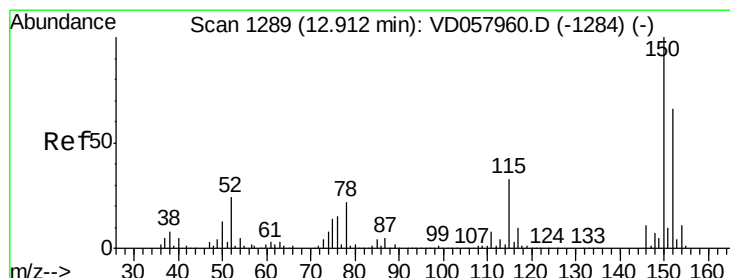
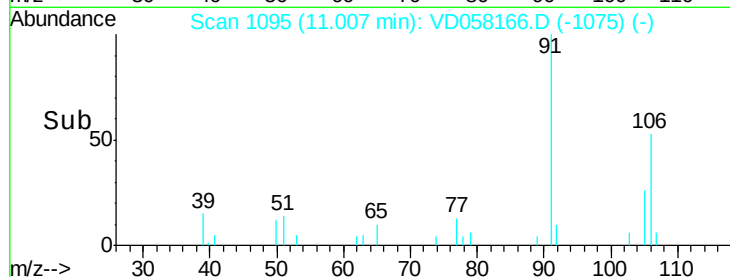
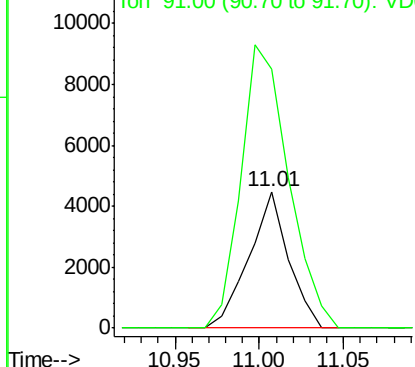
#68
m/p-Xvlenes
Concen: 1.266 ug/l
RT: 11.01 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VD058166.D
Acq: 15 Jun 2018 21:49

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:106 Resp: 7291
Ion Ratio Lower Upper
106 100
91 189.8 190.4 285.6#

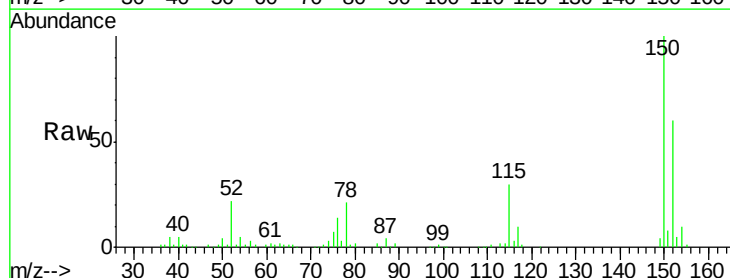


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

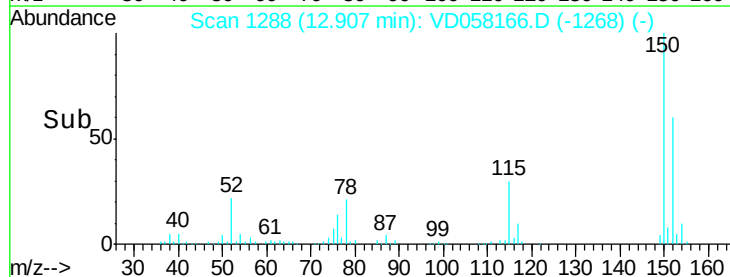
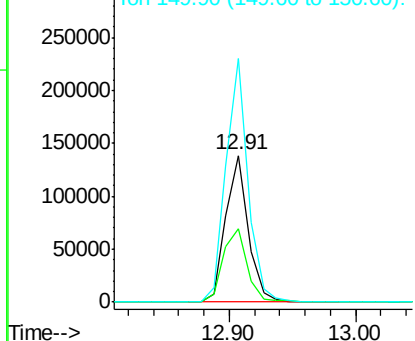


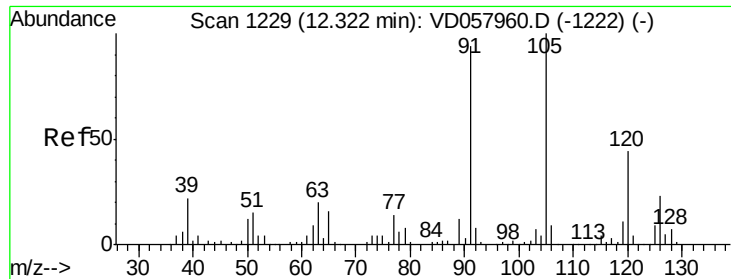
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058166.D
Acq: 15 Jun 2018 21:49

Tgt Ion:152 Resp: 170805
Ion Ratio Lower Upper
152 100
115 49.9 25.6 76.6
150 166.1 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





#80

1,3,5-Trimethylbenzene

Concen: 1.590 ug/l

RT: 12.32 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VD058166.D

Acq: 15 Jun 2018 21:49

Instrument :

MSVOA_D

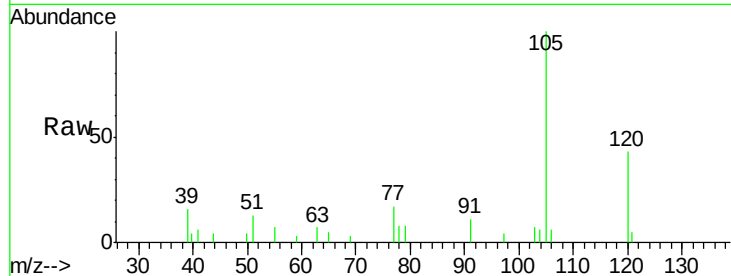
ClientSampleId :

Tot Ion:105 Resp: 14025

Ion Ratio Lower Upper

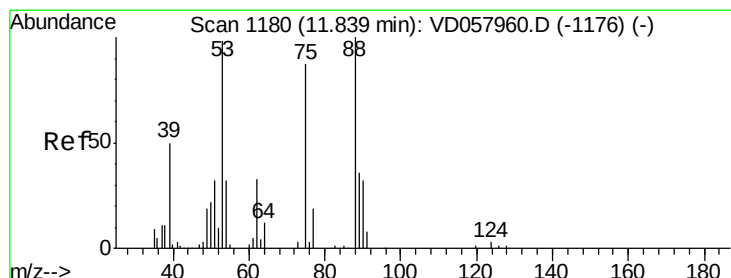
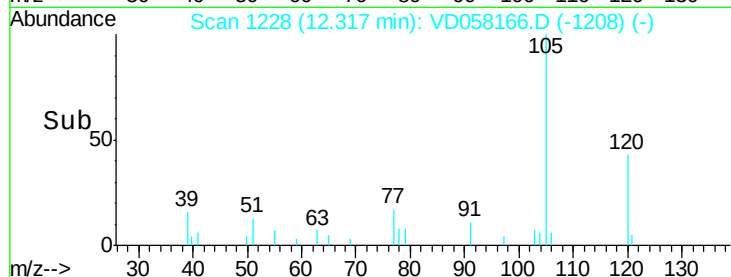
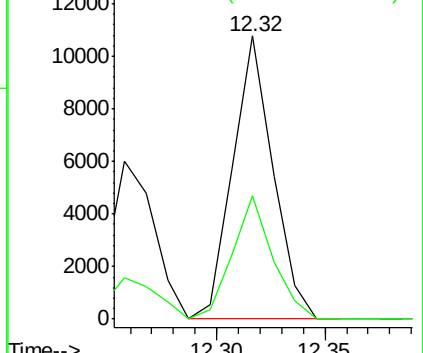
105 100

120 43.5 22.0 66.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 191.829 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.08 min

Lab File: VD058166.D

Acq: 15 Jun 2018 21:49

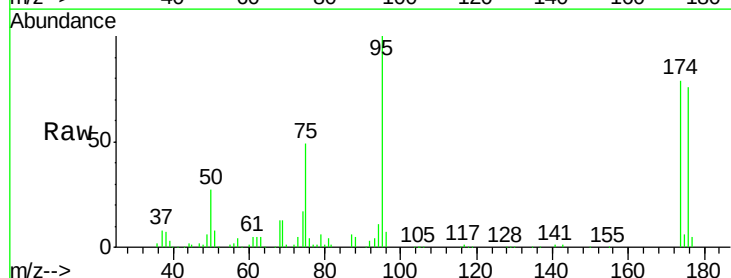
Tgt Ion: 75 Resp: 121906

Ion Ratio Lower Upper

75 100

53 0.0 89.3 133.9#

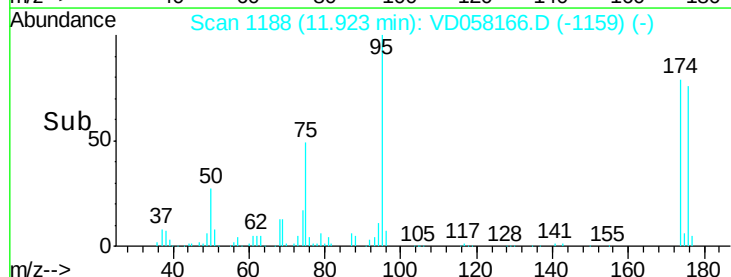
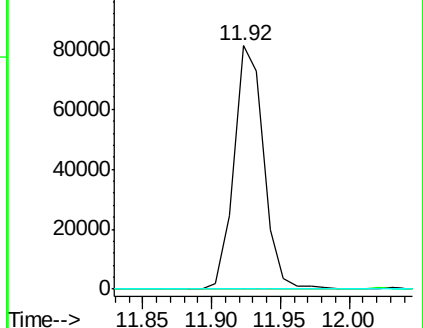
89 0.0 33.3 49.9#

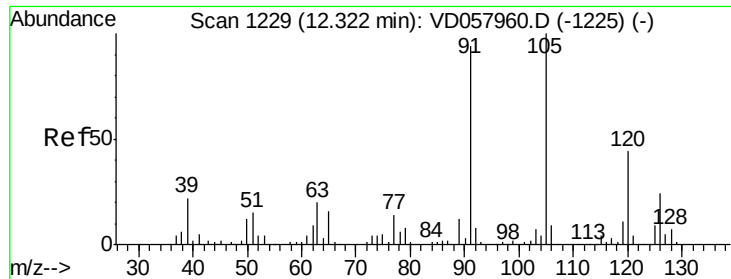


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

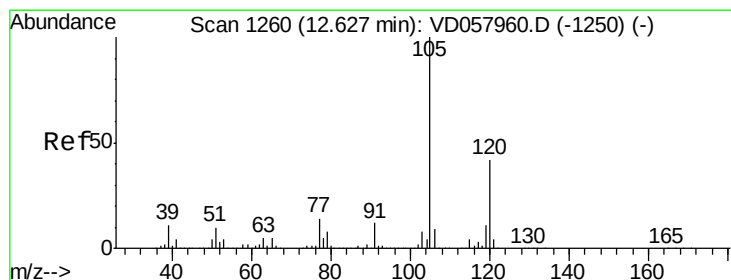
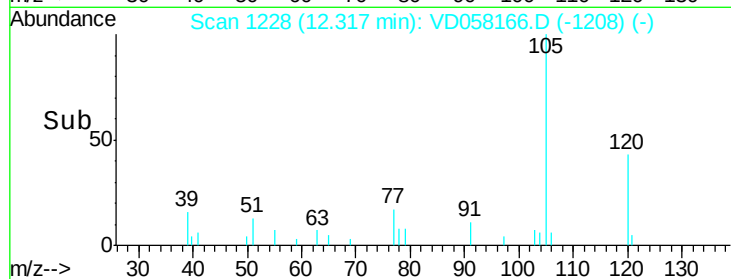
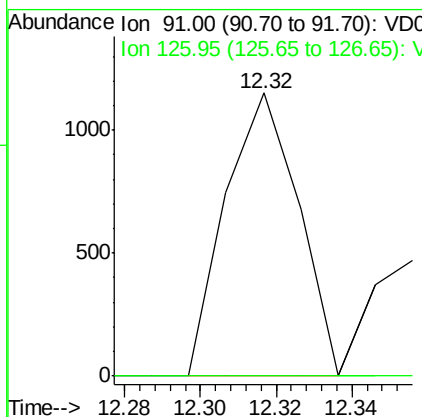
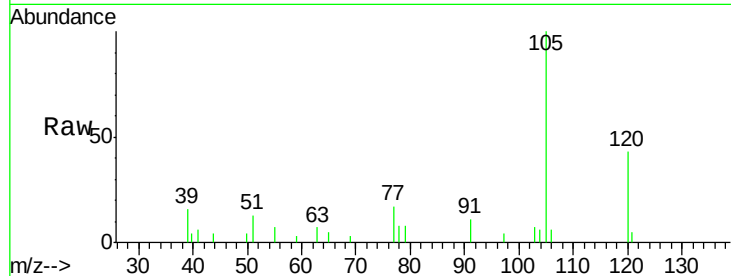




#82
 4-Chlorotoluene
 Concen: Below Cal
 RT: 12.32 min Scan# 1228
 Delta R.T. -0.00 min
 Lab File: VD058166.D
 Acq: 15 Jun 2018 21:49

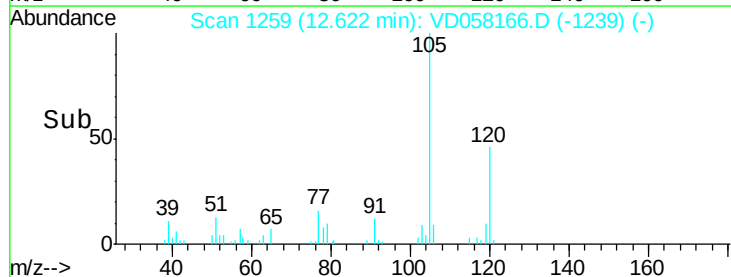
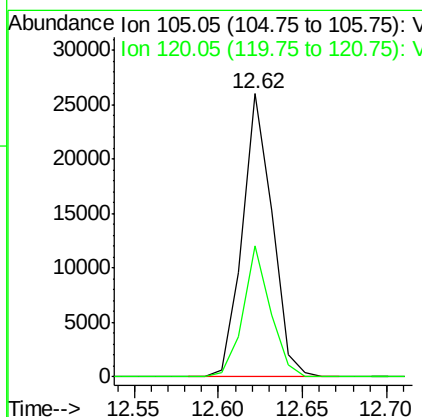
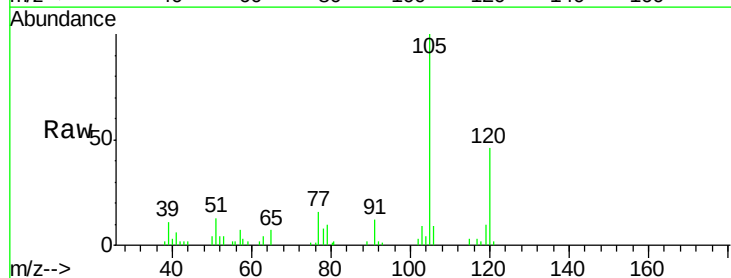
Instrument :
 MSVOA_D
 ClientSampleID :

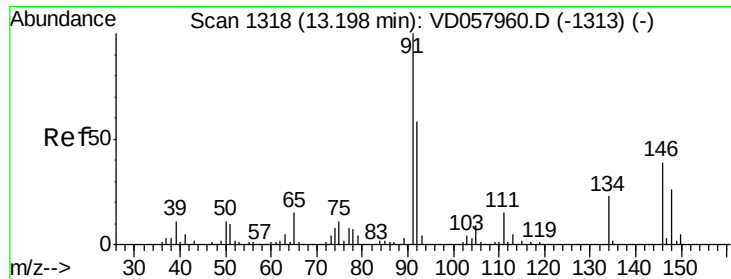
Tot Ion: 91 Resp: 1519
 Ion Ratio Lower Upper
 91 100
 126 0.0 12.5 37.5#



#84
 1,2,4-Trimethylbenzene
 Concen: 3.357 ug/l
 RT: 12.62 min Scan# 1259
 Delta R.T. -0.01 min
 Lab File: VD058166.D
 Acq: 15 Jun 2018 21:49

Tgt Ion:105 Resp: 31845
 Ion Ratio Lower Upper
 105 100
 120 46.3 21.2 63.6





#89

n-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 1315

Delta R.T. -0.02 min

Lab File: VD058166.D

Acq: 15 Jun 2018 21:49

Instrument :

MSVOA_D

ClientSampled :

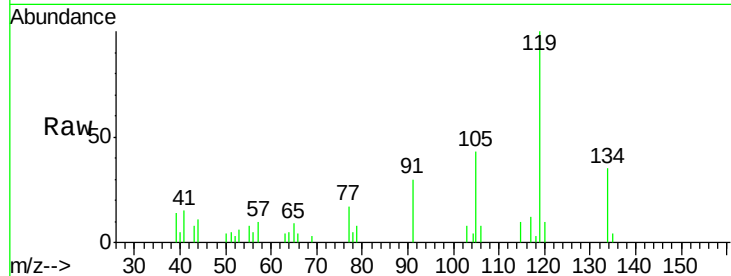
Tot Ion: 91 Resp: 5792

Ion Ratio Lower Upper

91 100

92 0.0 29.2 87.6#

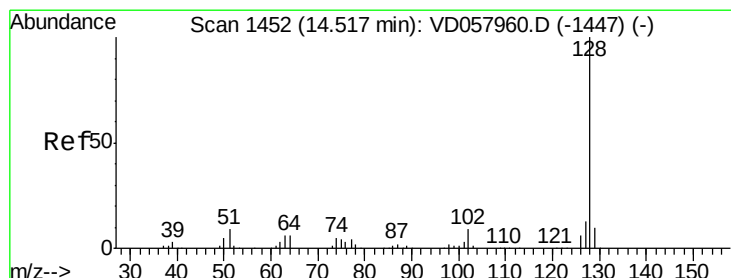
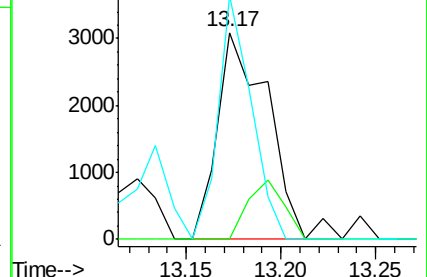
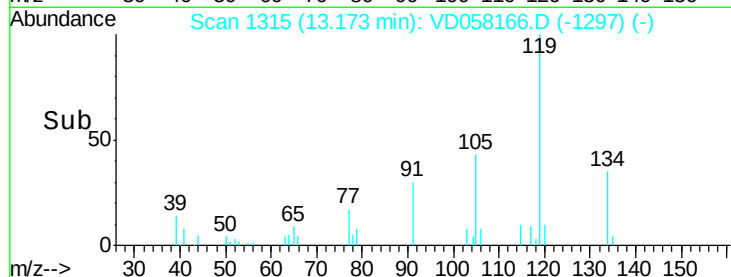
134 117.6 11.3 33.9#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#95

Naphthalene

Concen: 43.066 ug/l

RT: 14.51 min Scan# 1451

Delta R.T. -0.01 min

Lab File: VD058166.D

Acq: 15 Jun 2018 21:49

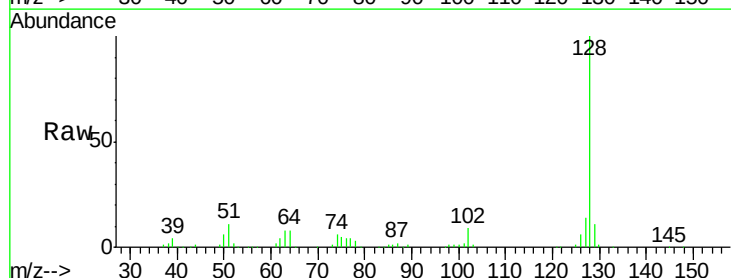
Tgt Ion:128 Resp: 237482

Ion Ratio Lower Upper

128 100

127 13.8 10.2 15.2

129 11.1 8.2 12.2



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

