

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060818\
 Data File : VD058040.D
 Acq On : 9 Jun 2018 3:34
 Operator : VA/AP
 Sample : J3354-01RE
 Misc : 5.67g/5ml/MSVOA D/SOIL
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 09 03:56:36 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	555584	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.68	114	737192	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	492969	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.90	152	174723	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.01	65	327803	59.02	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	118.04%	
35) Dibromofluoromethane	5.54	113	345069	60.50	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	121.00%	
50) Toluene-d8	8.70	98	695458	51.29	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	102.58%	
62) 4-Bromofluorobenzene	11.93	95	250862	42.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.82%	

Target Compounds

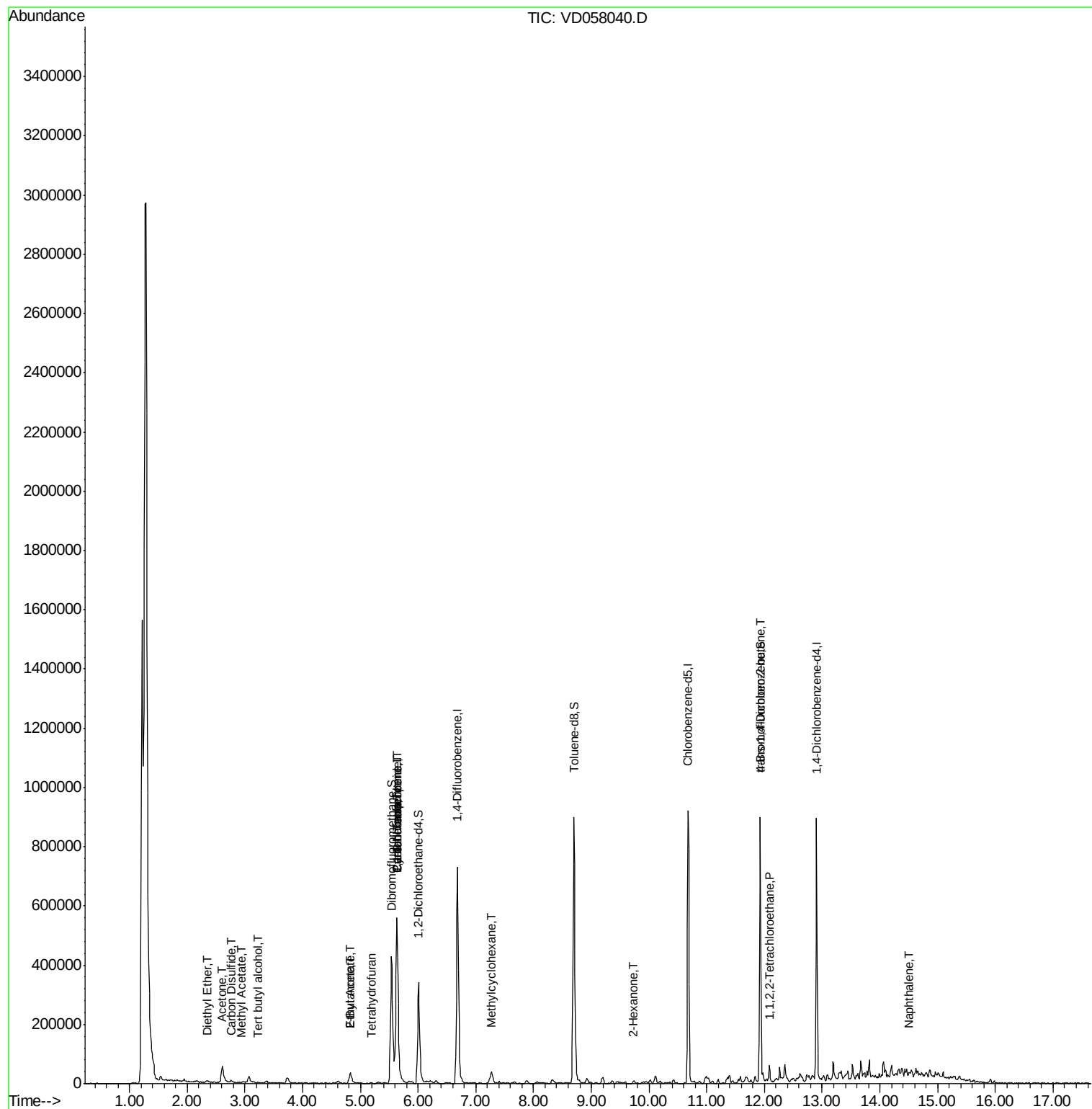
					Qvalue	
8) Diethyl Ether	2.34	74	1313	1.455	ug/l	92
11) Tert butyl alcohol	3.23	59	453	3.044	ug/l #	74
16) Acetone	2.60	43	120613	150.720	ug/l	93
17) Carbon Disulfide	2.76	76	9038	1.120	ug/l	99
18) Methyl Acetate	2.93	43	4281	2.765	ug/l #	66
20) Methylene Chloride	3.07	84	8102	Below Cal		97
25) 2-Butanone	4.83	43	45866	25.220	ug/l #	88
29) Tetrahydrofuran	5.20	42	1591	1.669	ug/l #	65
31) Cyclohexane	5.64	56	26928	2.788	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	51553	6.347	ug/l #	50
37) Ethyl Acetate	4.83	43	45866	10.349	ug/l #	72
38) Carbon Tetrachloride	5.64	117	45801	5.722	ug/l #	17
39) Methylcyclohexane	7.27	83	20196	2.508	ug/l	91
59) 2-Hexanone	9.73	43	6260	2.294	ug/l #	31
75) 1,1,2,2-Tetrachloroethane	12.07	83	3577	1.418	ug/l #	53
81) trans-1,4-Dichloro-2-buten	11.93	75	121042	186.198	ug/l #	6
82) 4-Chlorotoluene	12.32	91	2854	Below Cal		97
89) n-Butylbenzene	13.19	91	3349	Below Cal		88
95) Naphthalene	14.51	128	6790	1.204	ug/l #	94

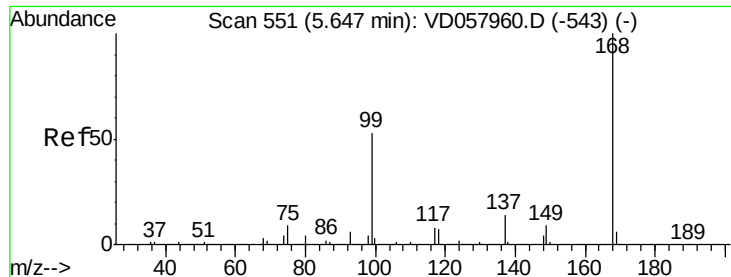
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD058040.D

Acq: 9 Jun 2018 3:34

Instrument :

MSVOA_D

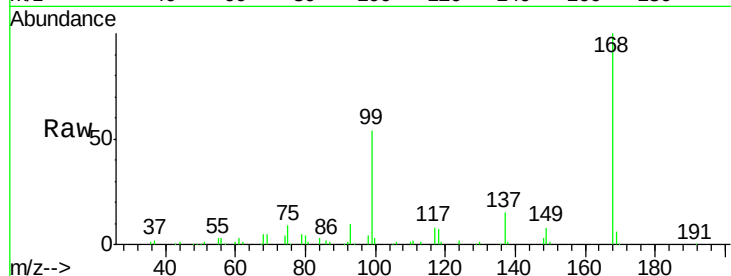
ClientSampleId :

Tot Ion:168 Resp: 555584

Ion Ratio Lower Upper

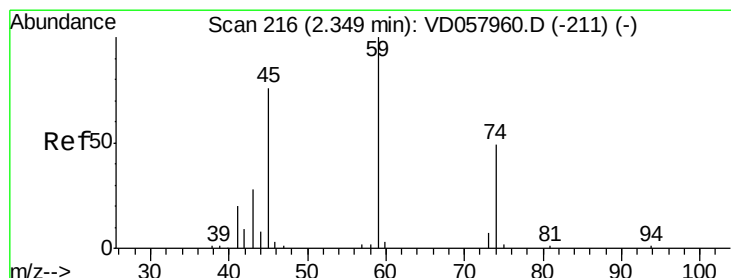
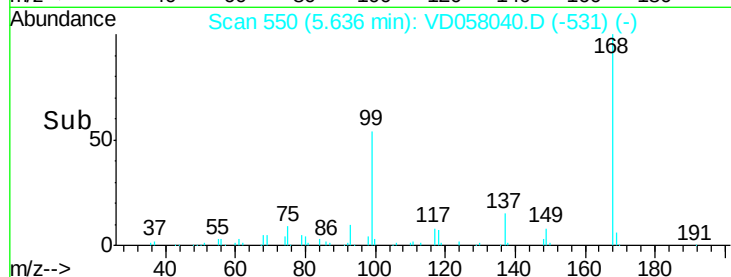
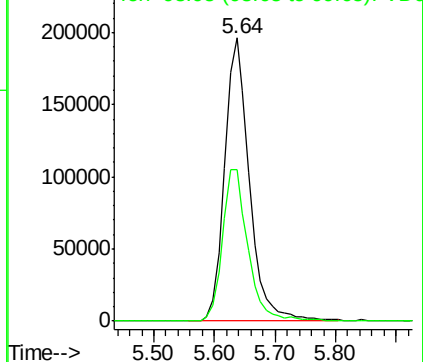
168 100

99 53.7 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.455 ug/l

RT: 2.34 min Scan# 215

Delta R.T. -0.01 min

Lab File: VD058040.D

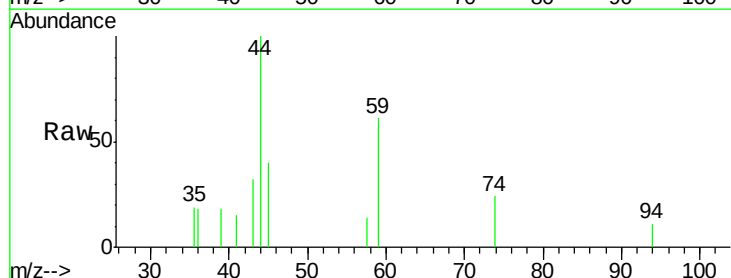
Acq: 9 Jun 2018 3:34

Tgt Ion: 74 Resp: 1313

Ion Ratio Lower Upper

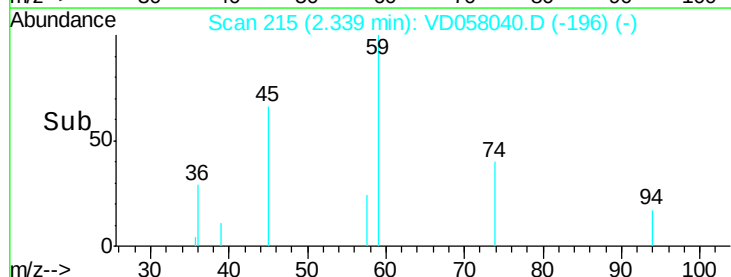
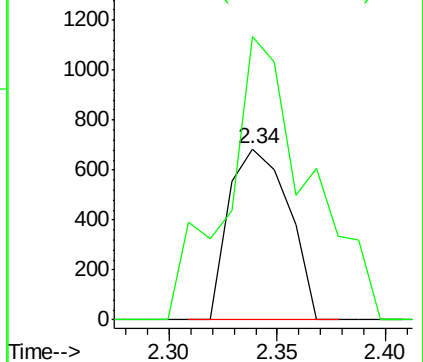
74 100

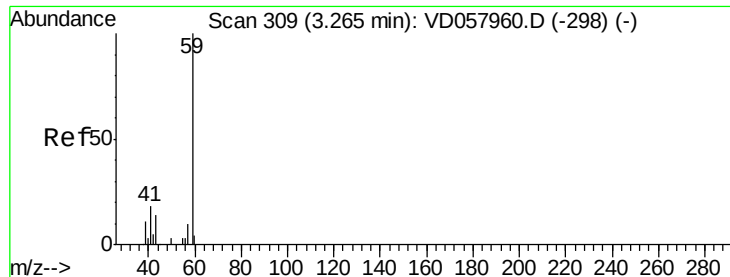
45 165.2 77.1 231.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



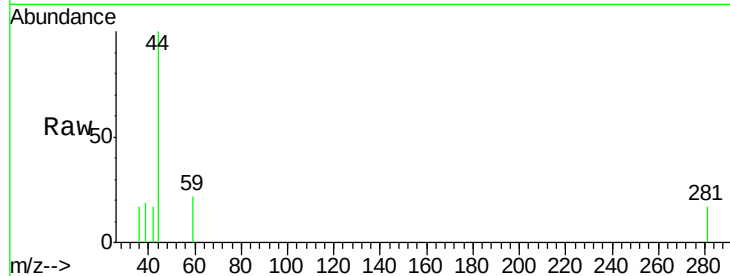


#11

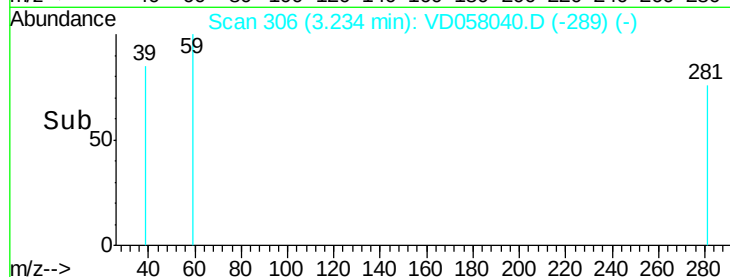
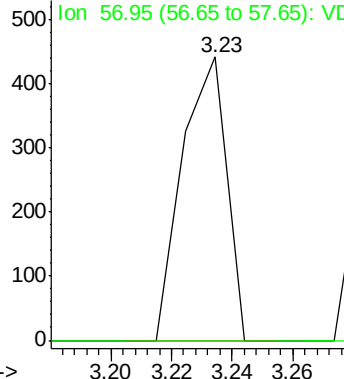
Tert butyl alcohol
 Concen: 3.044 ug/l
 RT: 3.23 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VD058040.D
 Acq: 9 Jun 2018 3:34

Instrument :
 MSVOA_D
 ClientSampleId :

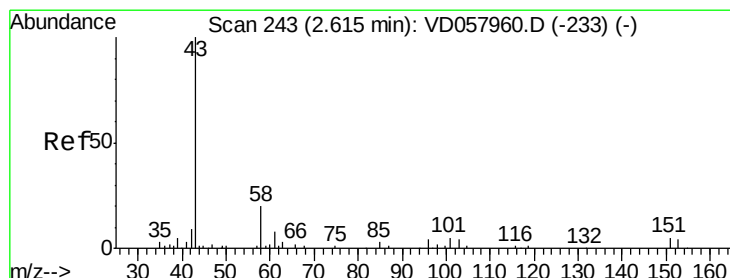
Tot Ion: 59 Resp: 453
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#



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



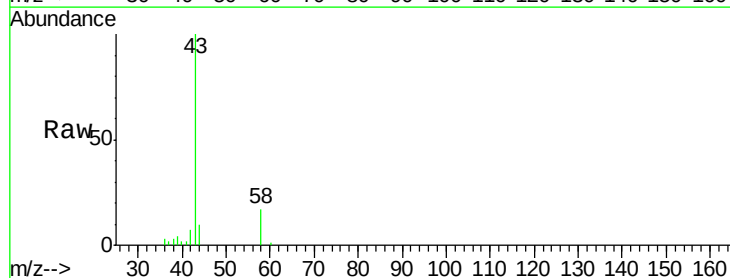
Time-->



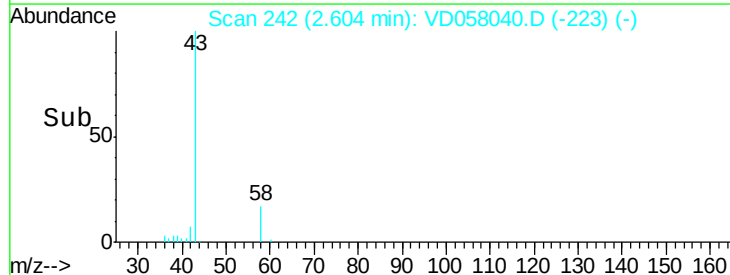
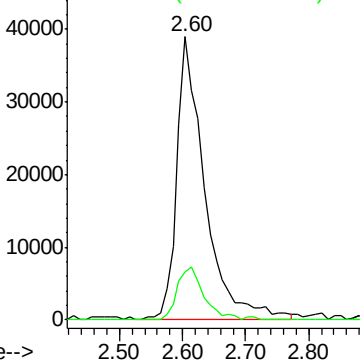
#16

Acetone
 Concen: 150.720 ug/l
 RT: 2.60 min Scan# 242
 Delta R.T. -0.01 min
 Lab File: VD058040.D
 Acq: 9 Jun 2018 3:34

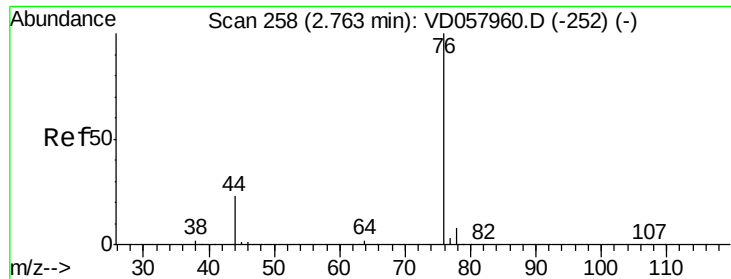
Tgt Ion: 43 Resp: 120613
 Ion Ratio Lower Upper
 43 100
 58 16.8 15.8 23.8



Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 57.95 (57.65 to 58.65): VDC



Time-->



#17

Carbon Disulfide

Concen: 1.120 ug/l

RT: 2.76 min Scan# 258

Delta R.T. -0.00 min

Lab File: VD058040.D

Acq: 9 Jun 2018 3:34

Instrument :

MSVOA_D

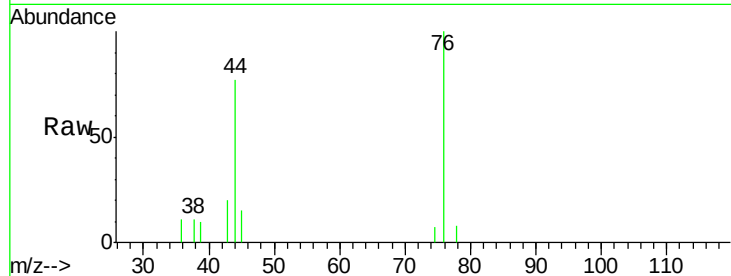
ClientSampled :

Tot Ion: 76 Resp: 9038

Ion Ratio Lower Upper

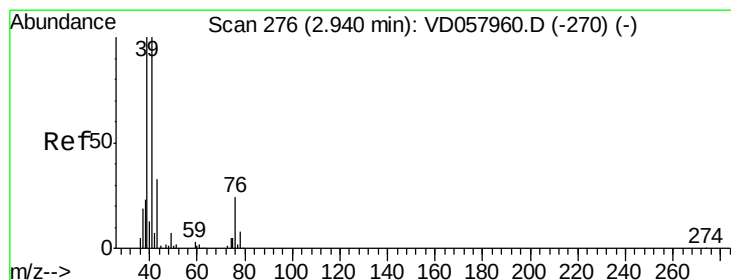
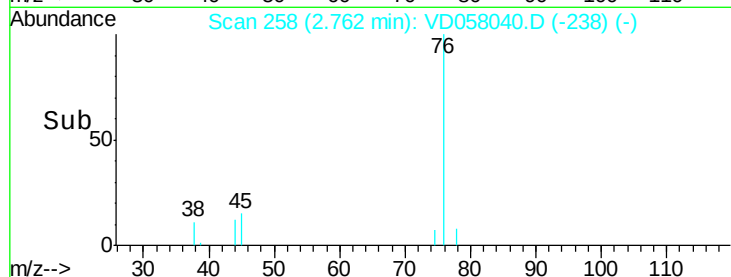
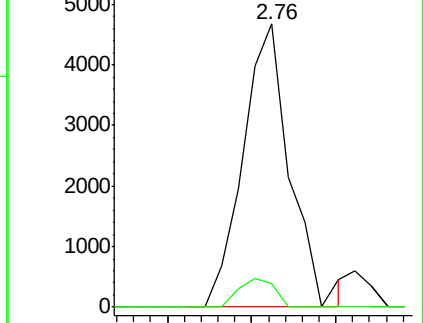
76 100

78 8.2 6.7 10.1



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 2.765 ug/l

RT: 2.93 min Scan# 275

Delta R.T. -0.01 min

Lab File: VD058040.D

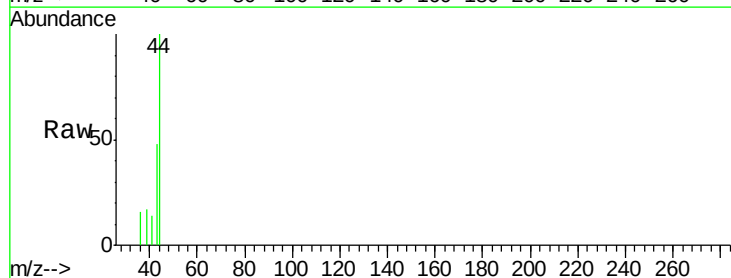
Acq: 9 Jun 2018 3:34

Tgt Ion: 43 Resp: 4281

Ion Ratio Lower Upper

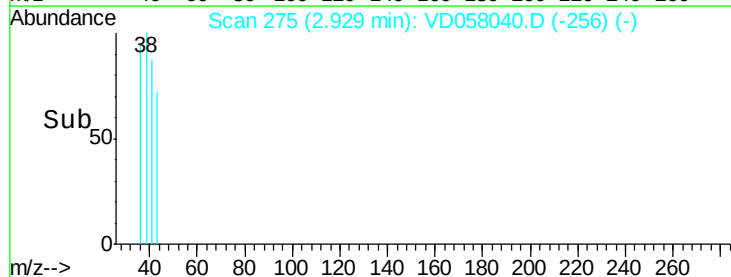
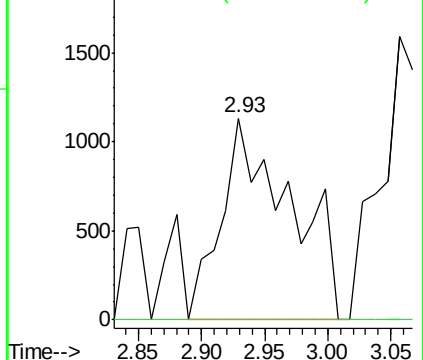
43 100

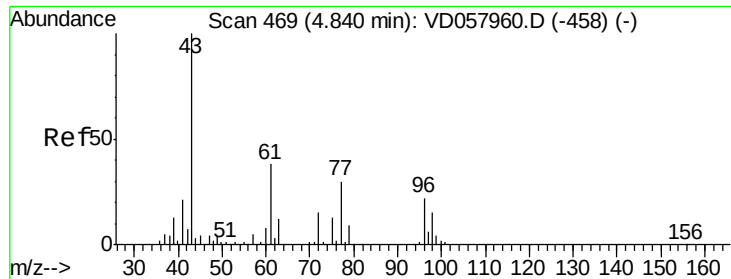
74 0.0 11.2 16.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#25

2-Butanone

Concen: 25.220 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058040.D

Acq: 9 Jun 2018 3:34

Instrument :

MSVOA_D

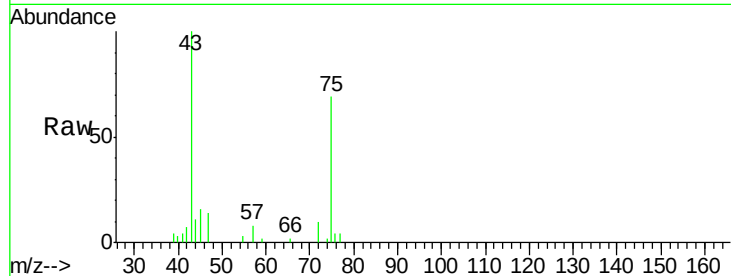
ClientSampleId :

Tot Ion: 43 Resp: 45866

Ion Ratio Lower Upper

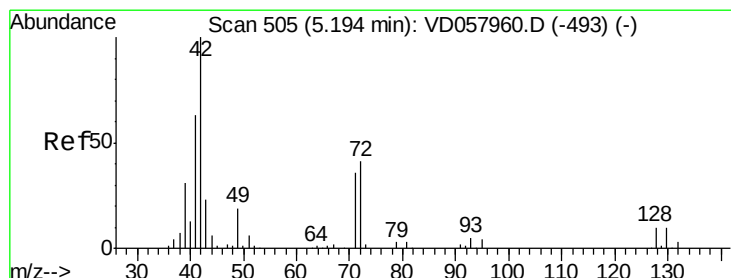
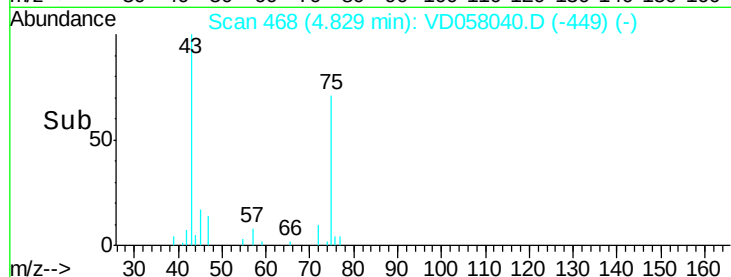
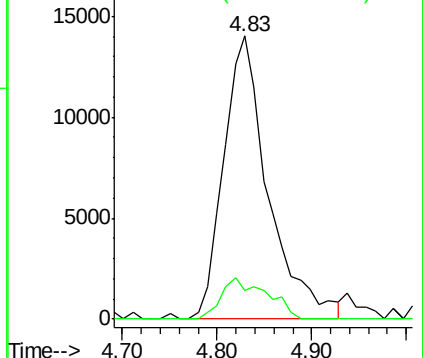
43 100

72 9.9 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: 1.669 ug/l

RT: 5.20 min Scan# 506

Delta R.T. 0.01 min

Lab File: VD058040.D

Acq: 9 Jun 2018 3:34

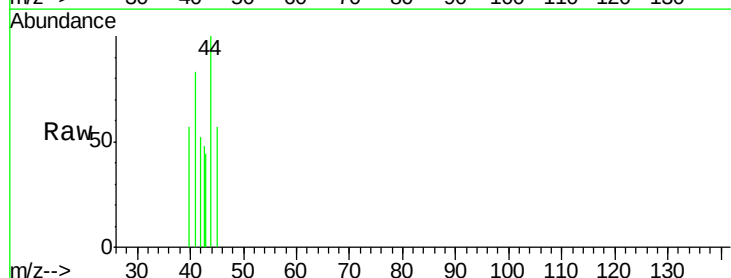
Tgt Ion: 42 Resp: 1591

Ion Ratio Lower Upper

42 100

72 16.7 28.5 42.7#

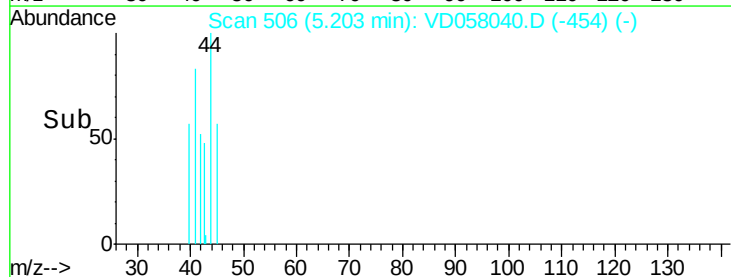
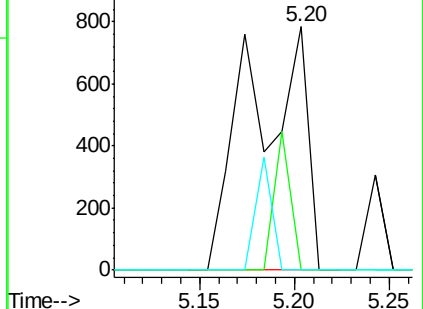
71 13.5 27.9 41.9#

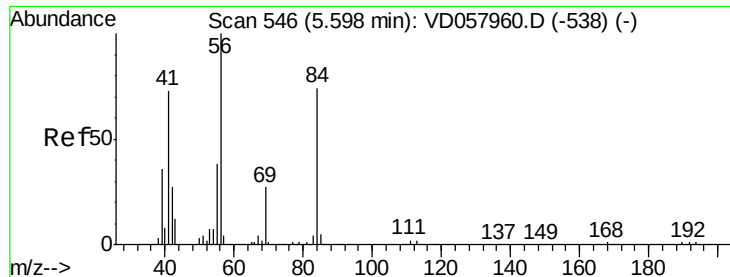


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

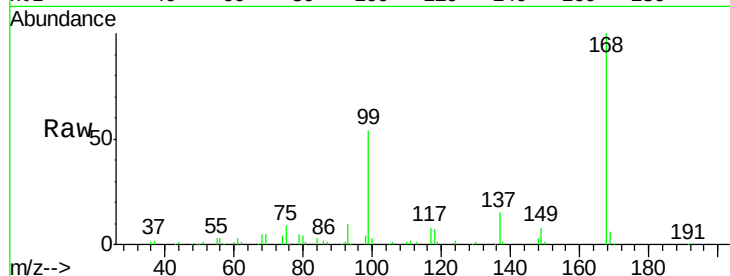




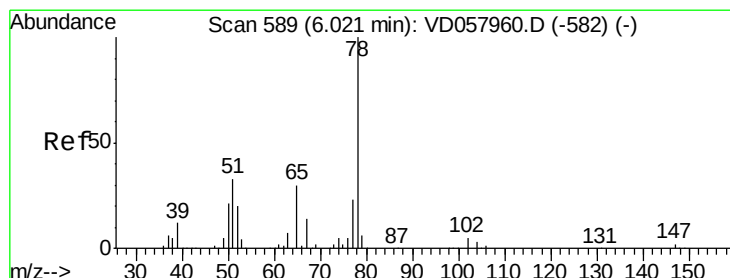
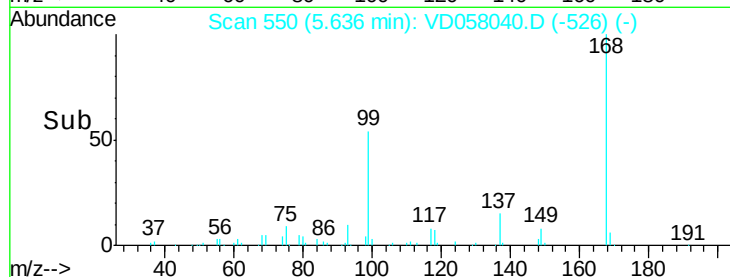
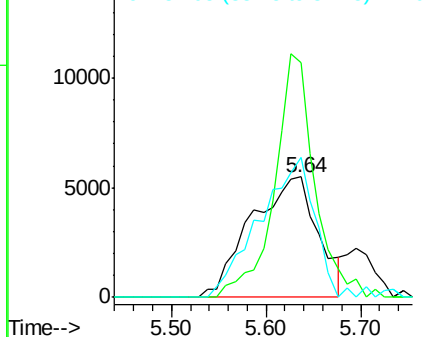
#31
Cyclohexane
Concen: 2.788 ug/l
RT: 5.64 min Scan# 550
Delta R.T. 0.04 min
Lab File: VD058040.D
Acq: 9 Jun 2018 3:34

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 26928
Ion Ratio Lower Upper
56 100
69 194.9 21.5 32.3#
84 116.1 61.0 91.6#

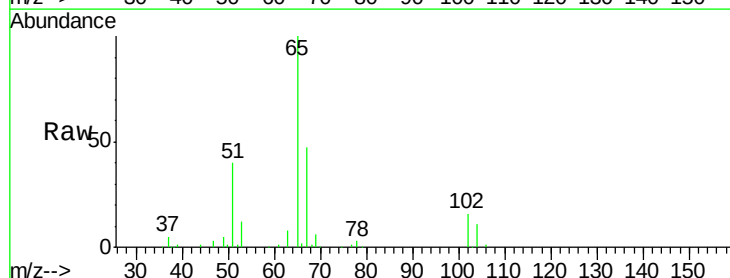


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

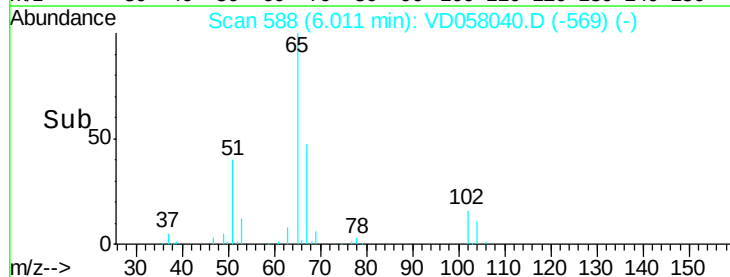
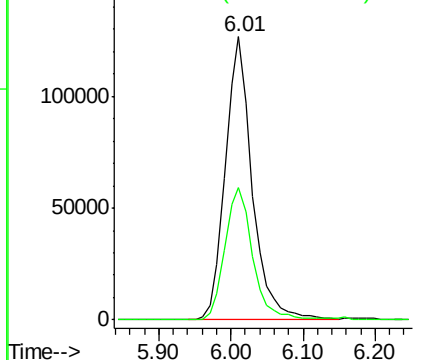


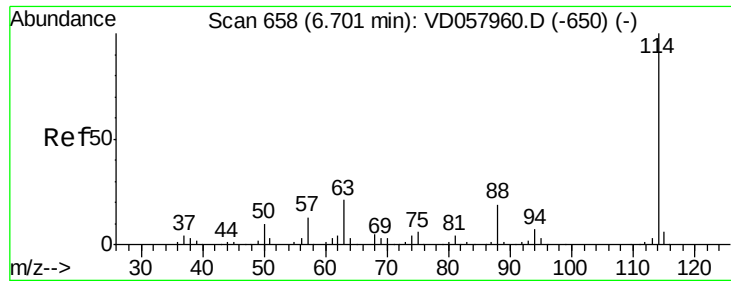
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.01 min Scan# 588
Delta R.T. -0.01 min
Lab File: VD058040.D
Acq: 9 Jun 2018 3:34

Tgt Ion: 65 Resp: 327803
Ion Ratio Lower Upper
65 100
67 46.7 0.0 94.0



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

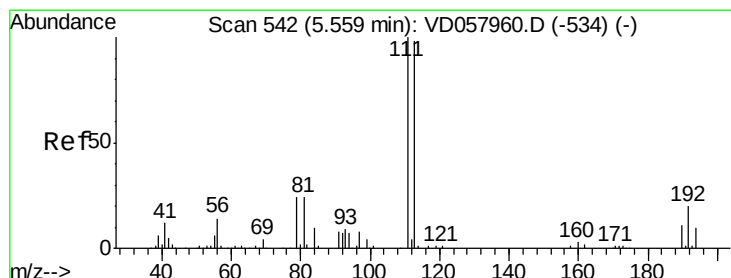
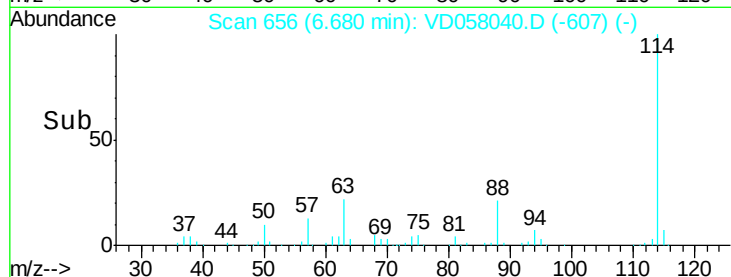
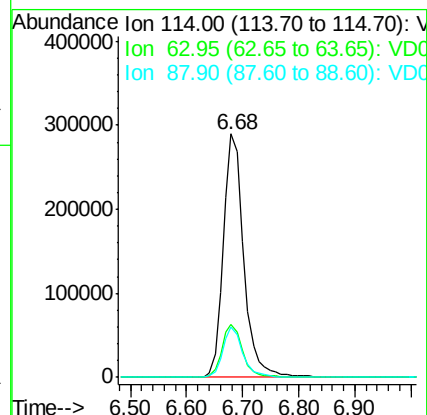
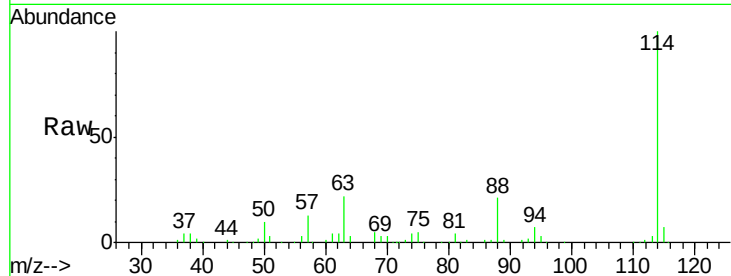




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.68 min Scan# 656
 Delta R.T. -0.02 min
 Lab File: VD058040.D
 Acq: 9 Jun 2018 3:34

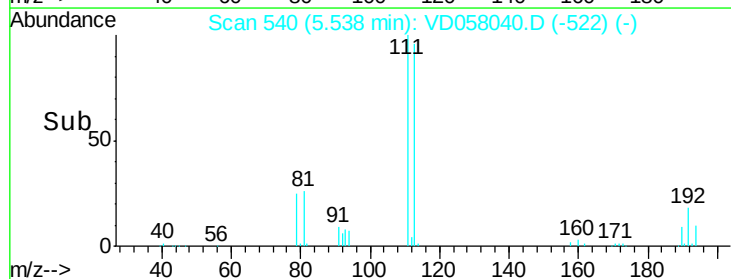
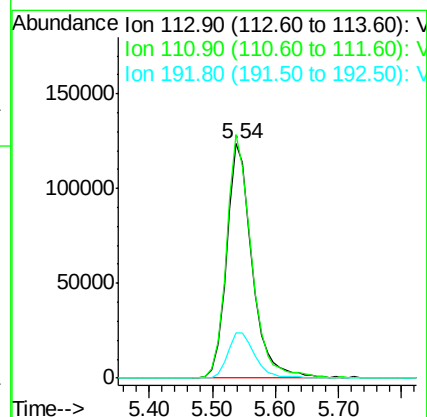
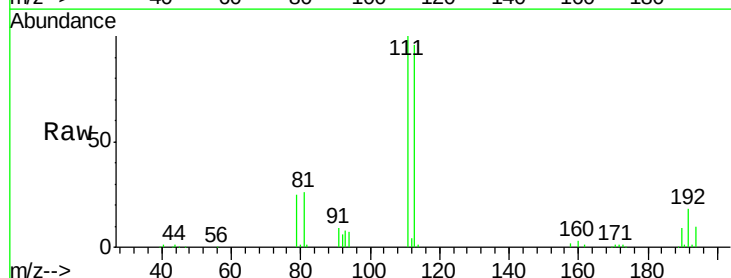
Instrument :
 MSVOA_D
 ClientSampleId :

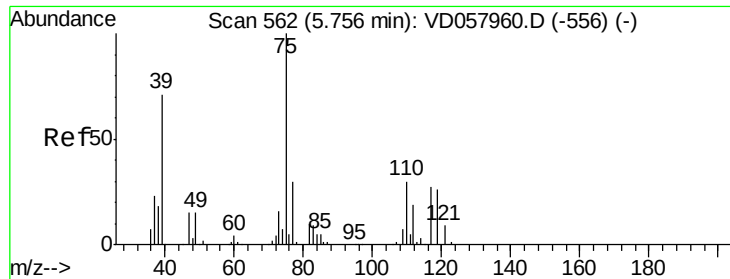
Tot Ion:114 Resp: 737192
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 42.8
 88 20.8 0.0 37.8



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.54 min Scan# 540
 Delta R.T. -0.02 min
 Lab File: VD058040.D
 Acq: 9 Jun 2018 3:34

Tgt Ion:113 Resp: 345069
 Ion Ratio Lower Upper
 113 100
 111 103.9 81.5 122.3
 192 19.1 16.4 24.6

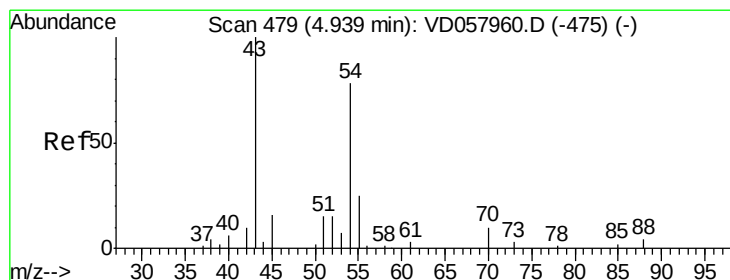
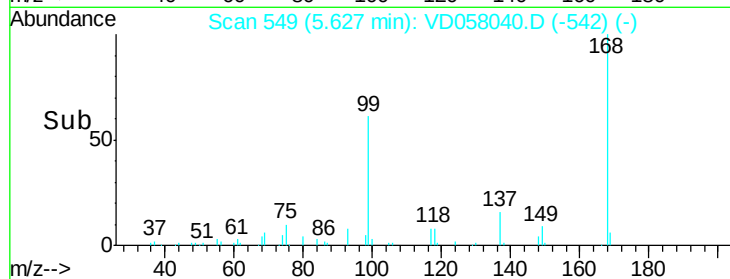
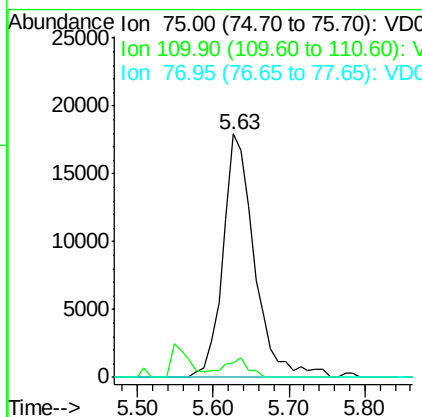
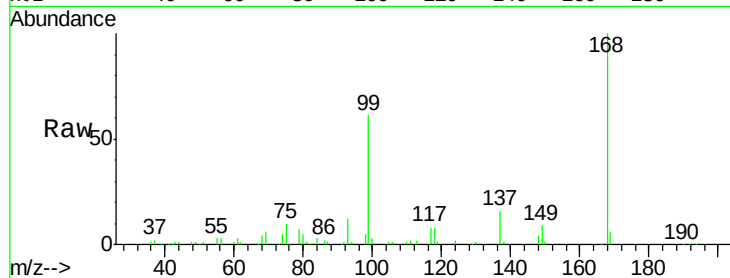




#36
 1,1-Dichloropropene
 Concen: 6.347 ug/l
 RT: 5.63 min Scan# 549
 Delta R.T. -0.13 min
 Lab File: VD058040.D
 Acq: 9 Jun 2018 3:34

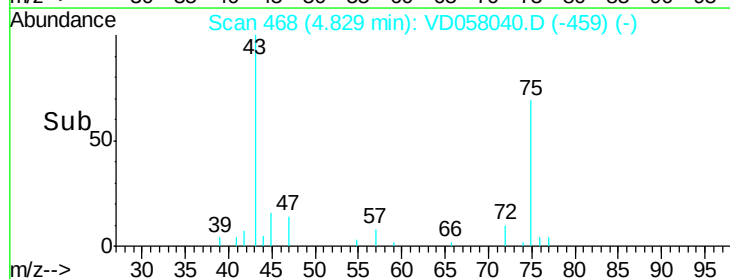
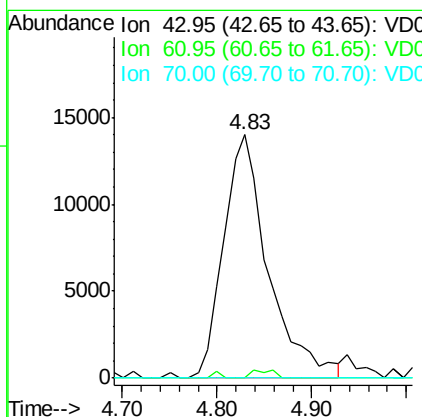
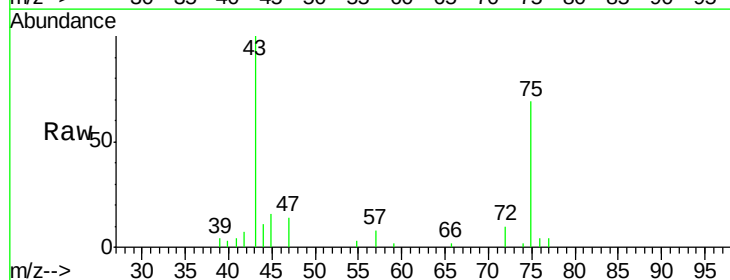
Instrument :
 MSVOA_D
 ClientSampleId :

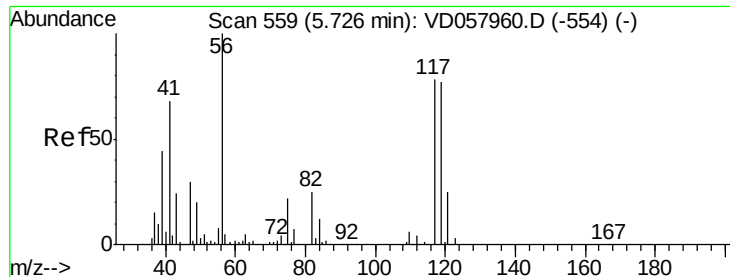
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.0	14.8	44.3#
77	0.0	23.9	35.9#



#37
 Ethyl Acetate
 Concen: 10.349 ug/l
 RT: 4.83 min Scan# 468
 Delta R.T. -0.11 min
 Lab File: VD058040.D
 Acq: 9 Jun 2018 3:34

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.9	14.9#
70	0.0	5.7	8.5#





#38

Carbon Tetrachloride

Concen: 5.722 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.09 min

Lab File: VD058040.D

Acq: 9 Jun 2018 3:34

Instrument :

MSVOA_D

ClientSampleId :

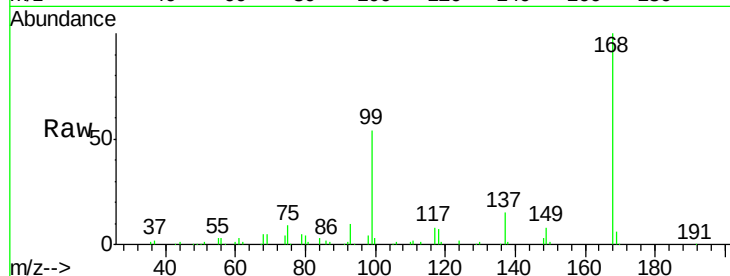
Tot Ion:117 Resp: 45801

Ion Ratio Lower Upper

117 100

119 6.3 76.1 114.1#

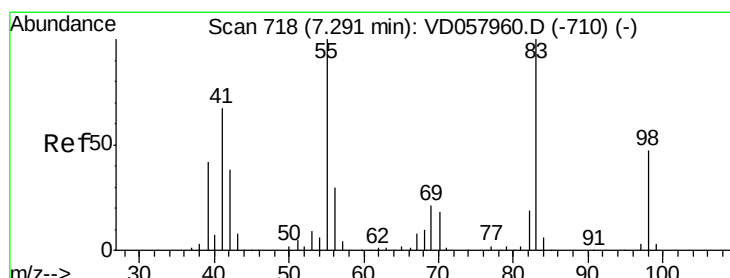
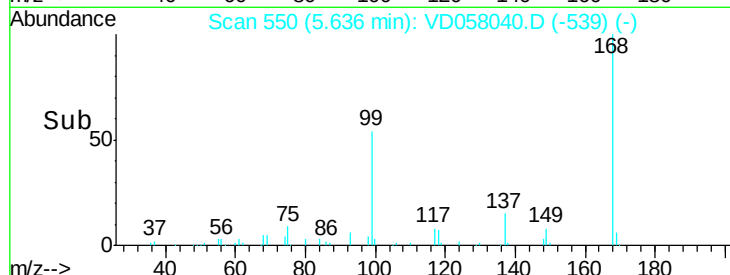
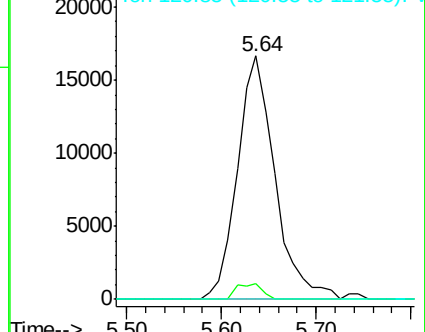
121 0.0 24.9 37.3#



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



#39

Methylcyclohexane

Concen: 2.508 ug/l

RT: 7.27 min Scan# 716

Delta R.T. -0.02 min

Lab File: VD058040.D

Acq: 9 Jun 2018 3:34

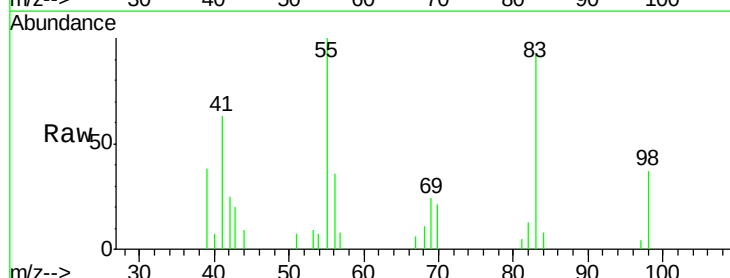
Tgt Ion: 83 Resp: 20196

Ion Ratio Lower Upper

83 100

55 108.5 80.3 120.5

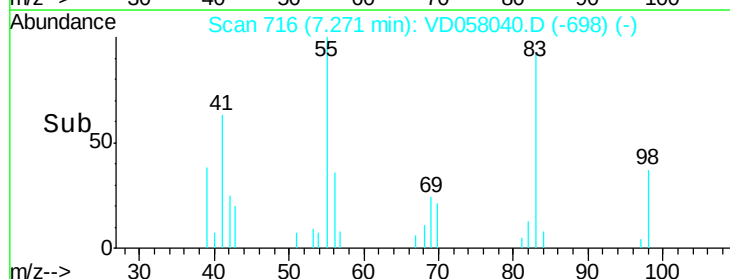
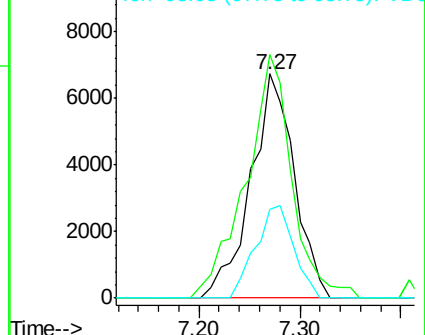
98 39.6 38.0 57.0

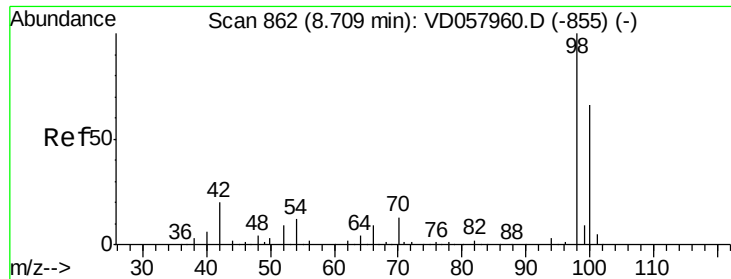


Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC

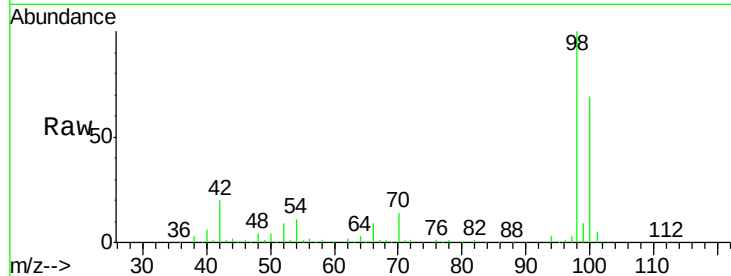




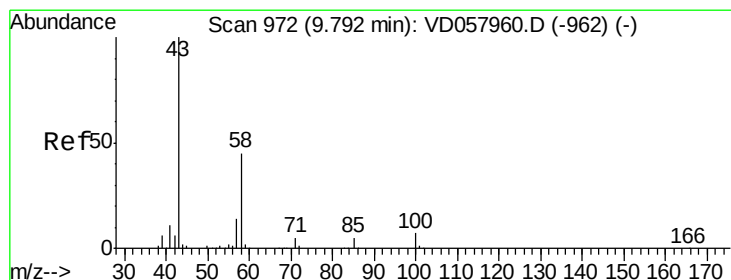
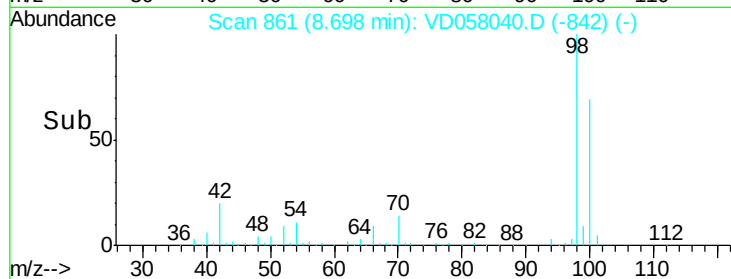
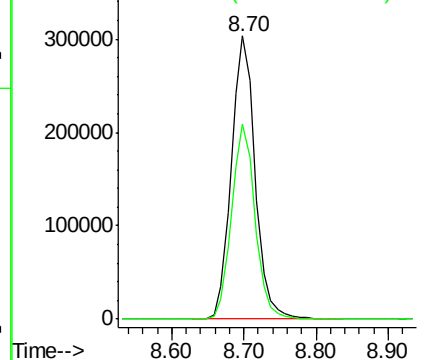
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.70 min Scan# 861
Delta R.T. -0.01 min
Lab File: VD058040.D
Acq: 9 Jun 2018 3:34

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 695458
Ion Ratio Lower Upper
98 100
100 69.1 53.4 80.0

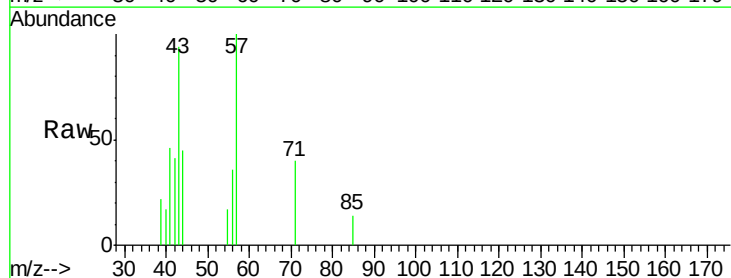


Abundance Ion 98.05 (97.75 to 98.75): VD0
Ion 100.05 (99.75 to 100.75): VD

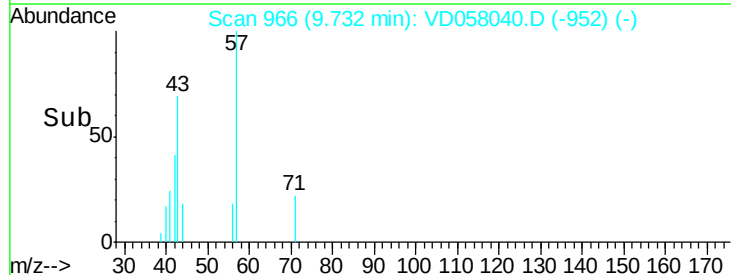
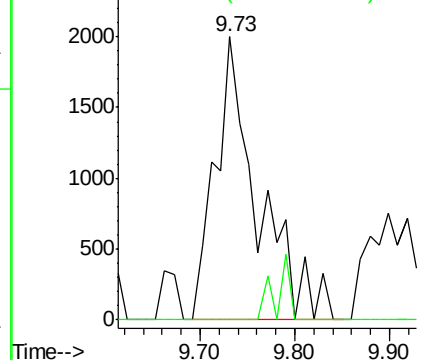


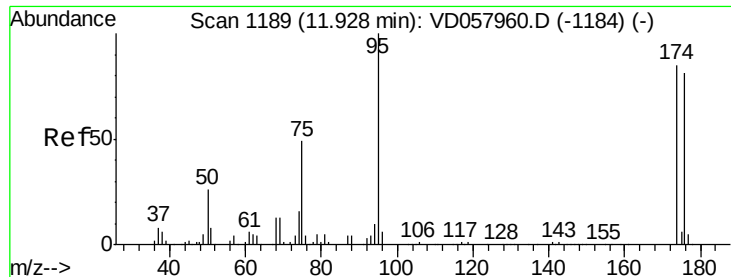
#59
2-Hexanone
Concen: 2.294 ug/l
RT: 9.73 min Scan# 966
Delta R.T. -0.06 min
Lab File: VD058040.D
Acq: 9 Jun 2018 3:34

Tgt Ion: 43 Resp: 6260
Ion Ratio Lower Upper
43 100
58 0.0 22.5 67.5#



Abundance Ion 42.95 (42.65 to 43.65): VD0
Ion 57.95 (57.65 to 58.65): VD0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VD058040.D

Acq: 9 Jun 2018 3:34

Instrument :

MSVOA_D

ClientSampled :

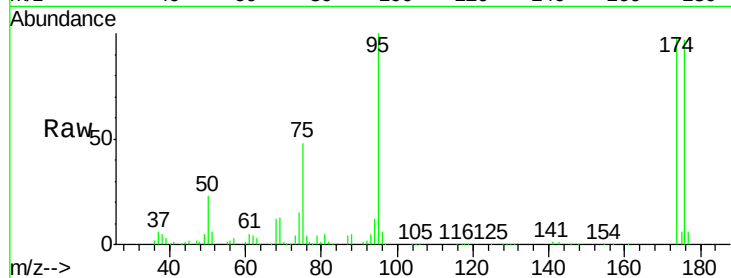
Tot Ion: 95 Resp: 250862

Ion Ratio Lower Upper

95 100

174 98.0 0.0 169.4

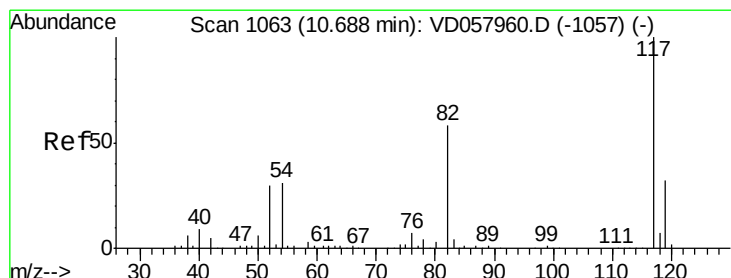
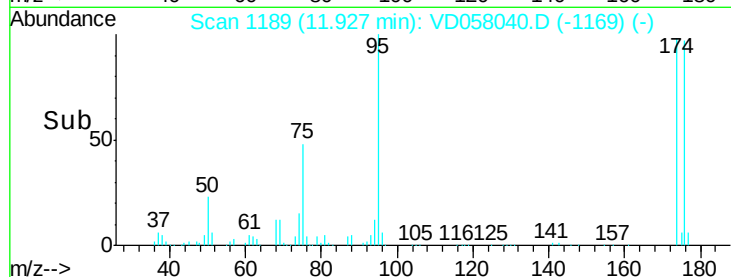
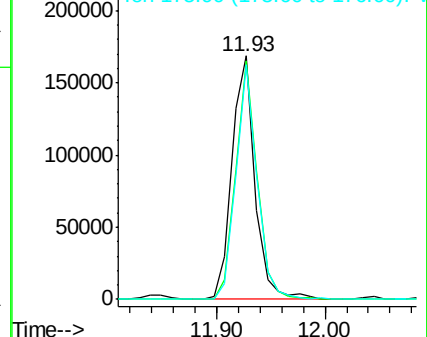
176 96.5 0.0 162.6



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: VD058040.D

Acq: 9 Jun 2018 3:34

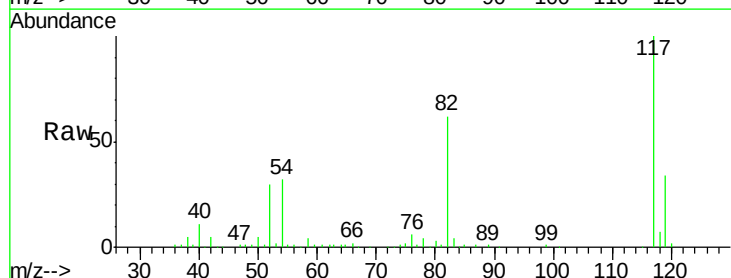
Tgt Ion: 117 Resp: 492969

Ion Ratio Lower Upper

117 100

82 61.7 46.8 70.2

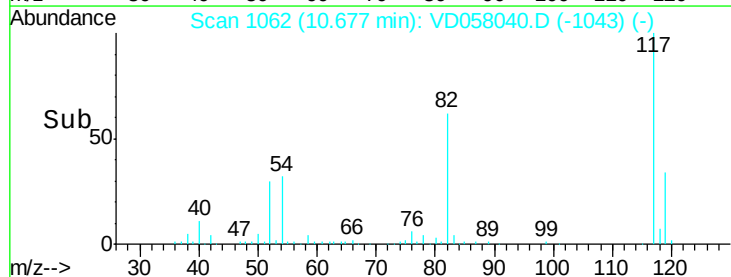
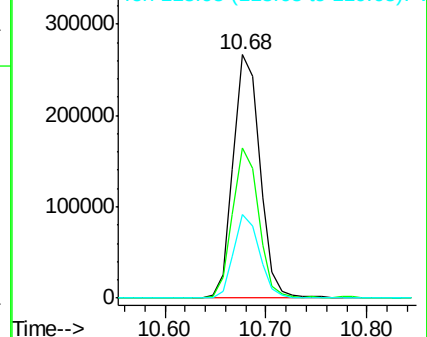
119 34.4 25.8 38.6

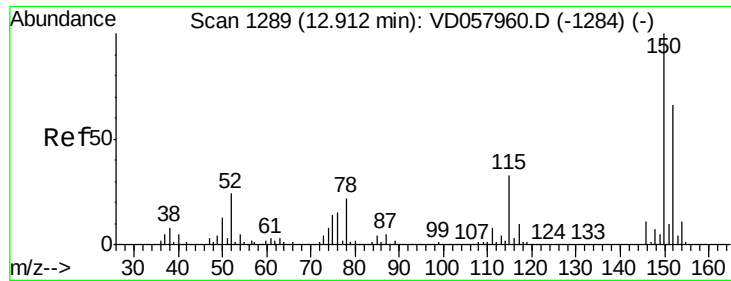


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD058040.D

Acq: 9 Jun 2018 3:34

Instrument :

MSVOA_D

ClientSampleId :

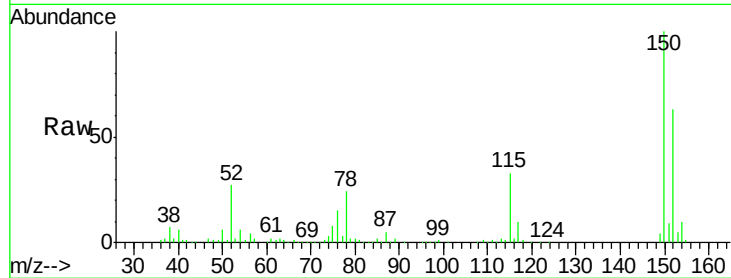
Tot Ion:152 Resp: 174723

Ion Ratio Lower Upper

152 100

115 52.7 25.6 76.6

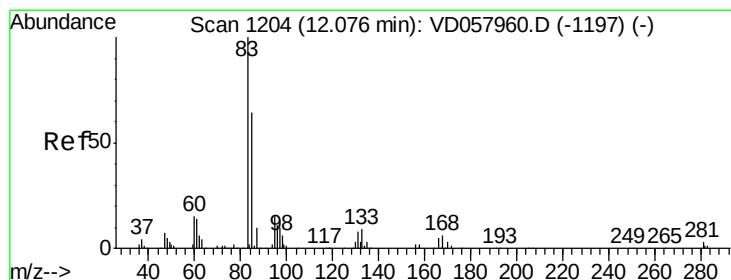
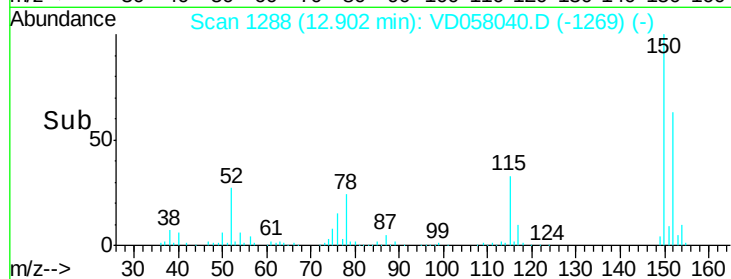
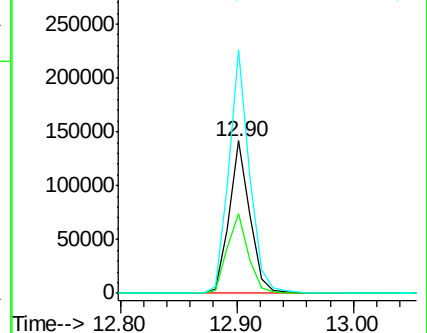
150 159.9 0.0 306.8



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



#75

1,1,2,2-Tetrachloroethane

Concen: 1.418 ug/l

RT: 12.07 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VD058040.D

Acq: 9 Jun 2018 3:34

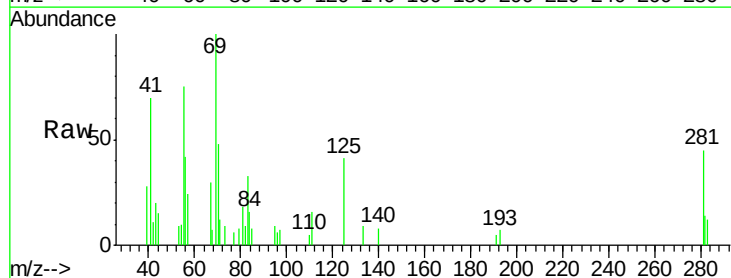
Tgt Ion: 83 Resp: 3577

Ion Ratio Lower Upper

83 100

131 0.0 4.2 12.6#

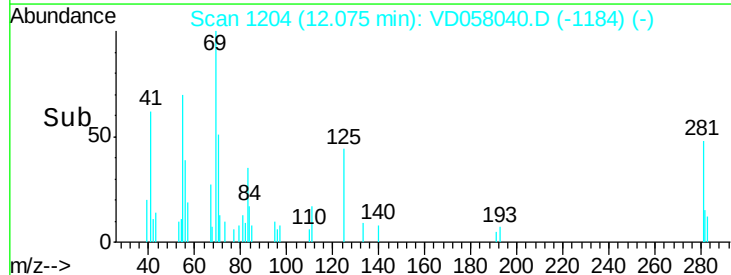
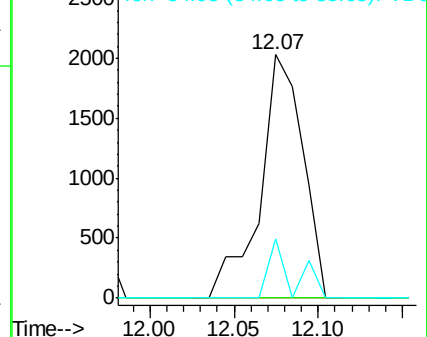
85 24.2 31.9 95.5#

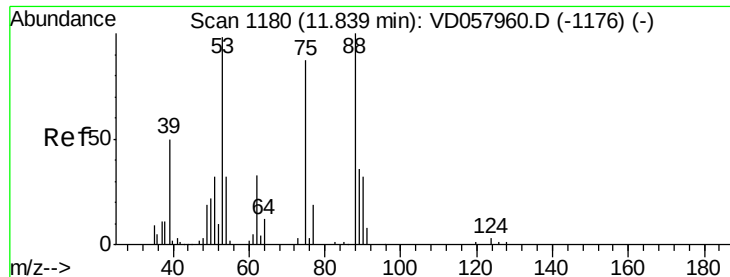


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 186.198 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058040.D

Acq: 9 Jun 2018 3:34

Instrument :

MSVOA_D

ClientSampleId :

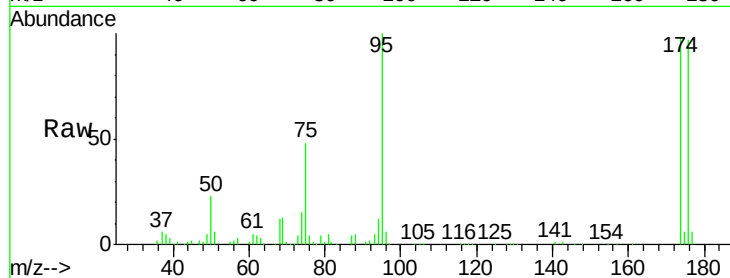
Tot Ion: 75 Resp: 121042

Ion Ratio Lower Upper

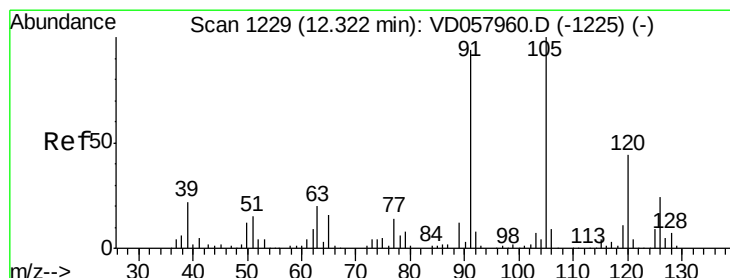
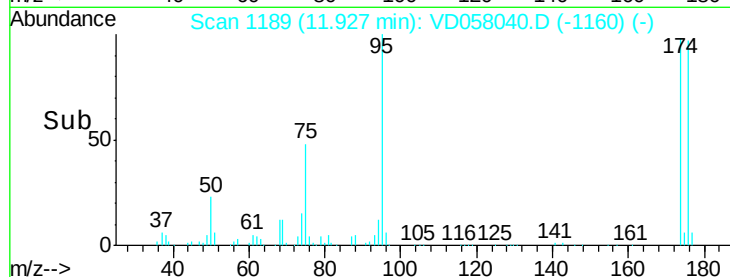
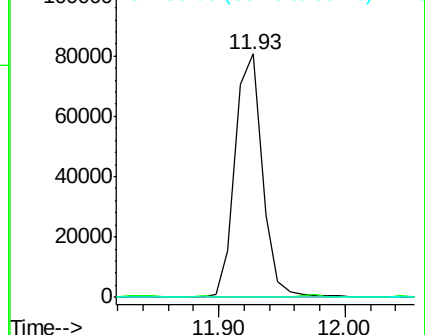
75 100

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: VD058040.D

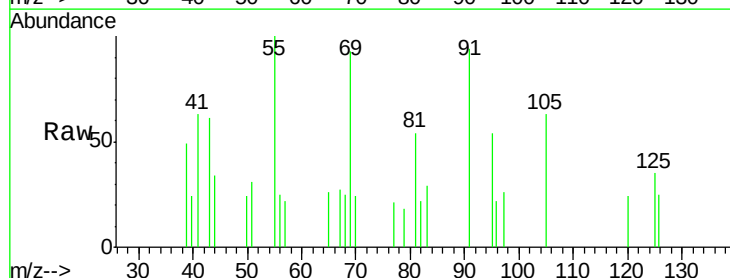
Acq: 9 Jun 2018 3:34

Tgt Ion: 91 Resp: 2854

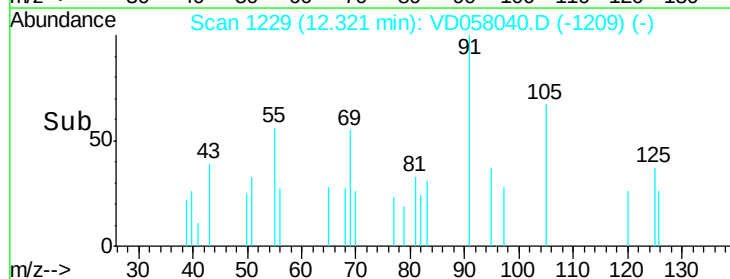
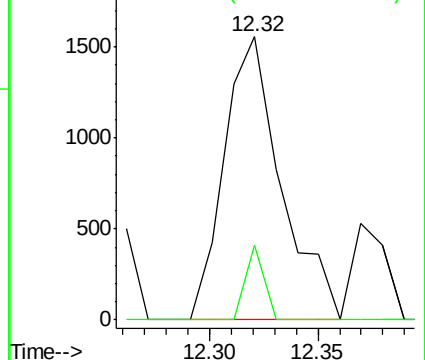
Ion Ratio Lower Upper

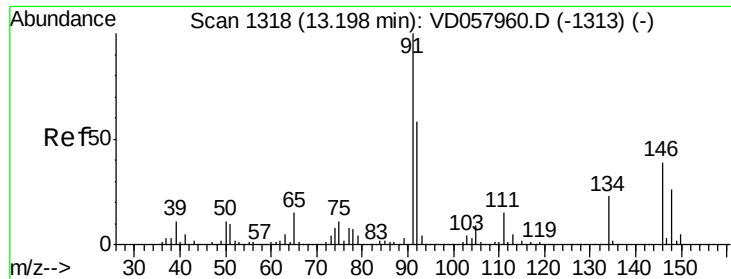
91 100

126 26.3 12.5 37.5



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

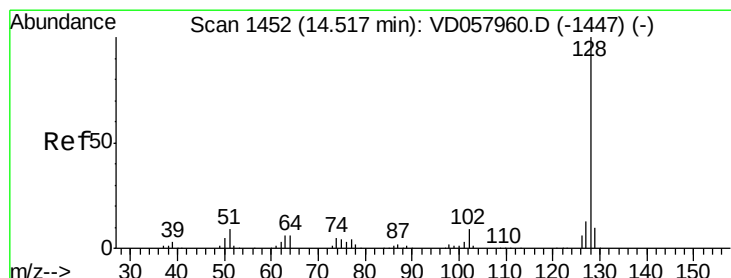
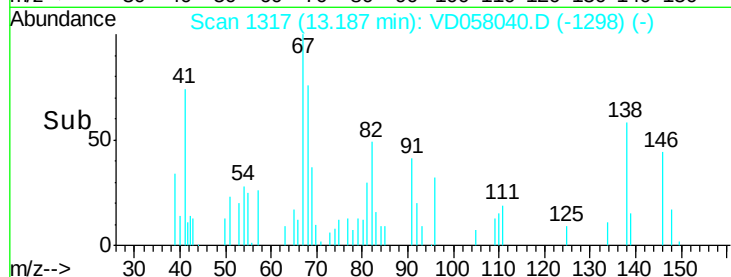
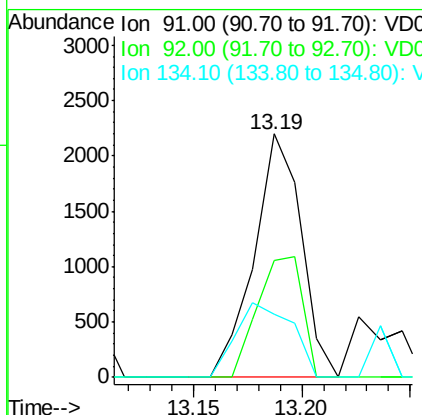
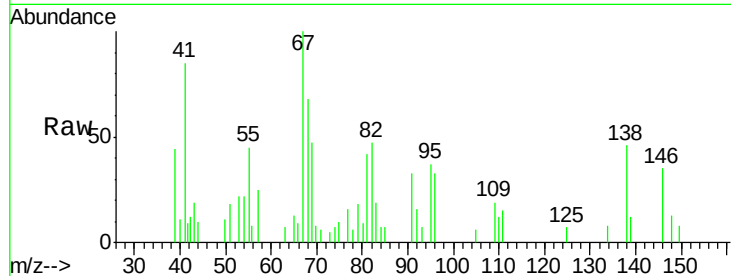




#89
n-Butylbenzene
Concen: Below Cal
RT: 13.19 min Scan# 1317
Delta R.T. -0.01 min
Lab File: VD058040.D
Acq: 9 Jun 2018 3:34

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 91 Resp: 3349
Ion Ratio Lower Upper
91 100
92 48.1 29.2 87.6
134 25.7 11.3 33.9



#95
Naphthalene
Concen: 1.204 ug/l
RT: 14.51 min Scan# 1451
Delta R.T. -0.01 min
Lab File: VD058040.D
Acq: 9 Jun 2018 3:34

Tgt Ion: 128 Resp: 6790
Ion Ratio Lower Upper
128 100
127 15.7 10.2 15.2#
129 11.3 8.2 12.2

