

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060818\
 Data File : VD058022.D
 Acq On : 8 Jun 2018 17:13
 Operator : VA/AP
 Sample : J2688-04RE
 Misc : 4.96g/5ml/MSVOA D/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 08 23:56:47 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	605184	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.68	114	735190	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	523221	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	193697	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	325869	53.86	ug/l	0.00
Spiked Amount						
			Recovery	=	107.72%	
35) Dibromofluoromethane	5.54	113	353457	62.14	ug/l	-0.02
Spiked Amount						
			Recovery	=	124.28%	
50) Toluene-d8	8.70	98	743753	55.00	ug/l	0.00
Spiked Amount						
			Recovery	=	110.00%	
62) 4-Bromofluorobenzene	11.93	95	242752	41.15	ug/l	0.00
Spiked Amount						
			Recovery	=	82.30%	

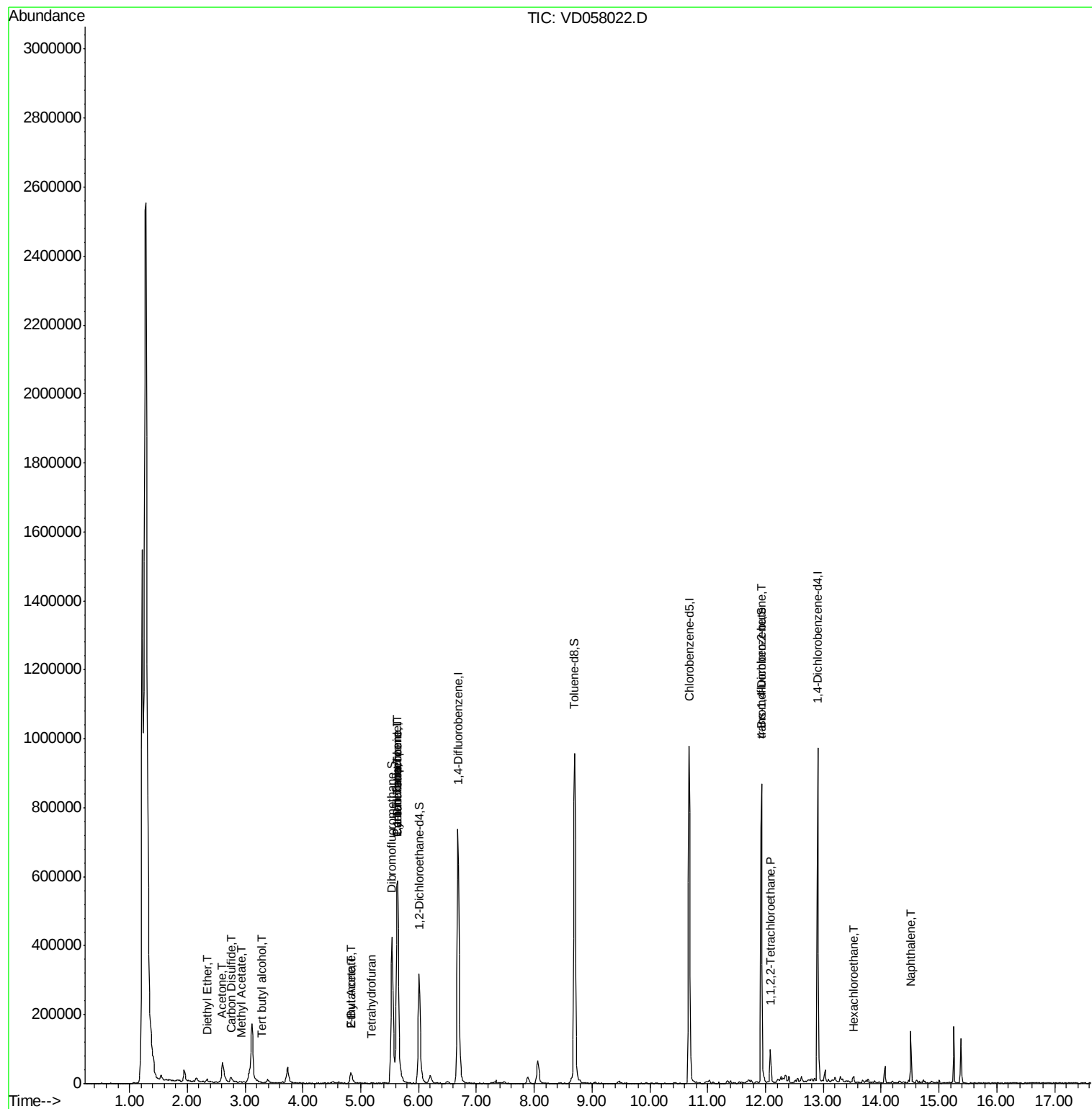
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.35	74	3232	3.287	ug/l	66
11) Tert butyl alcohol	3.28	59	201	1.240	ug/l #	74
16) Acetone	2.62	43	127237	145.966	ug/l	95
17) Carbon Disulfide	2.75	76	18713	2.128	ug/l #	94
18) Methyl Acetate	2.93	43	3066	1.818	ug/l #	66
20) Methylene Chloride	3.07	84	10566	Below Cal		94
25) 2-Butanone	4.83	43	49564	25.019	ug/l	97
29) Tetrahydrofuran	5.18	42	1772	1.706	ug/l #	39
31) Cyclohexane	5.63	56	18936	1.800	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	50336	6.214	ug/l #	52
37) Ethyl Acetate	4.83	43	49564	11.214	ug/l #	72
38) Carbon Tetrachloride	5.64	117	51424	6.442	ug/l #	16
75) 1,1,2,2-Tetrachloroethane	12.09	83	6015	2.150	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.93	75	118217	164.039	ug/l #	6
82) 4-Chlorotoluene	12.32	91	845	Below Cal	#	50
89) n-Butylbenzene	13.19	91	946	Below Cal	#	73
90) Hexachloroethane	13.52	117	2841	1.013	ug/l #	1
95) Naphthalene	14.51	128	79916	12.780	ug/l	99

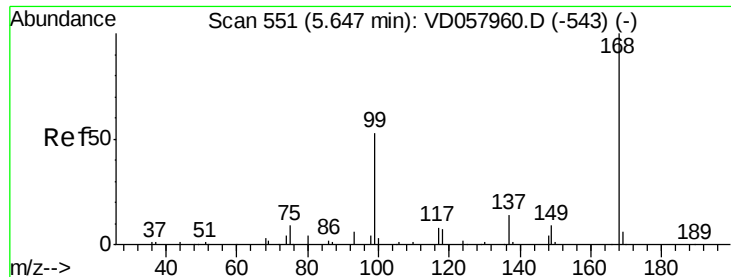
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD058022.D

Acq: 8 Jun 2018 17:13

Instrument :

MSVOA_D

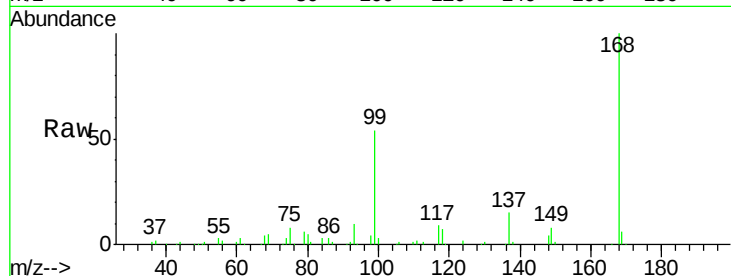
ClientSampleId :

Tot Ion:168 Resp: 605184

Ion Ratio Lower Upper

168 100

99 53.9 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

200000

150000

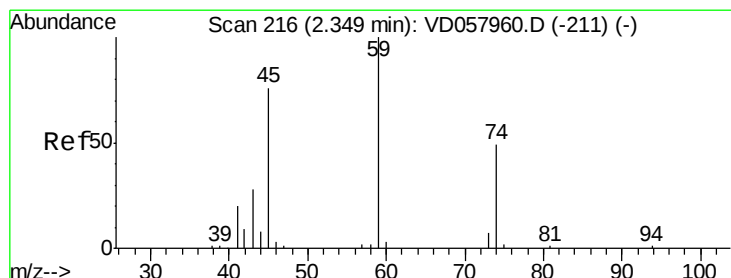
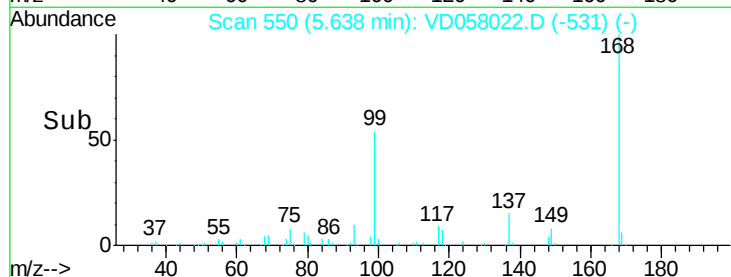
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 3.287 ug/l

RT: 2.35 min Scan# 216

Delta R.T. 0.00 min

Lab File: VD058022.D

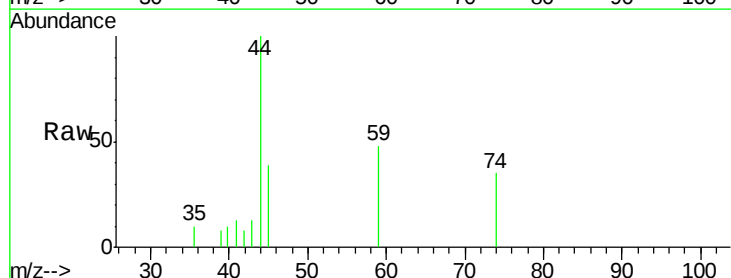
Acq: 8 Jun 2018 17:13

Tgt Ion: 74 Resp: 3232

Ion Ratio Lower Upper

74 100

45 110.9 77.1 231.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

2500

2000

1500

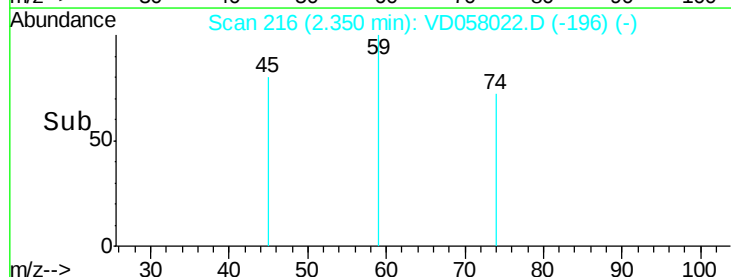
1000

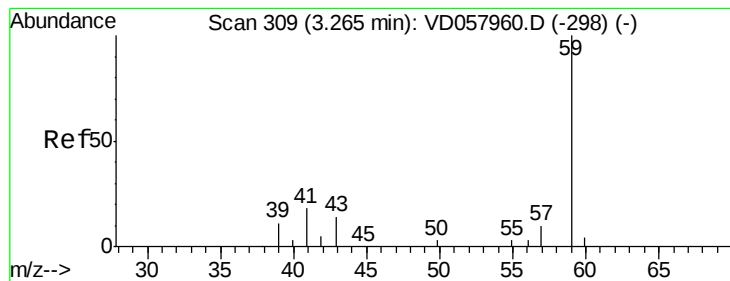
500

0

Time-->

2.30 2.35 2.40



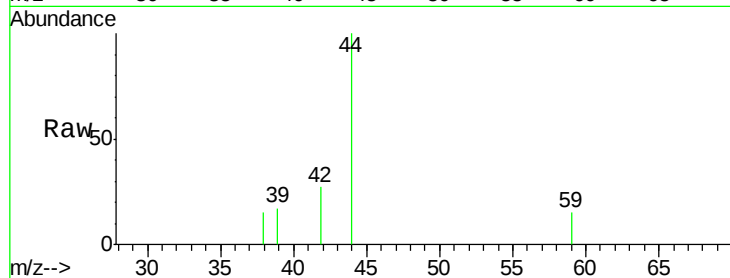


#11

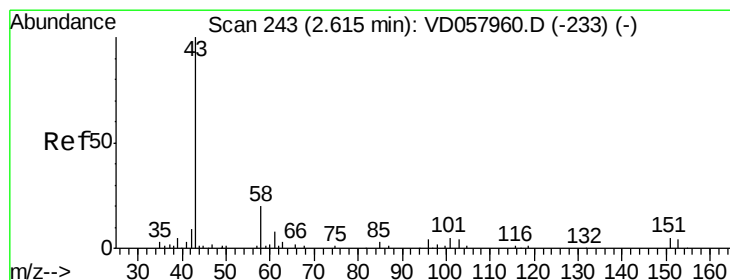
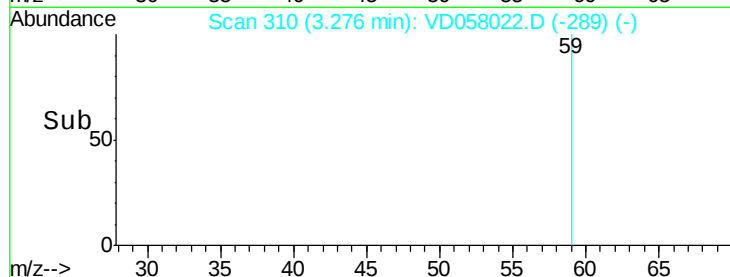
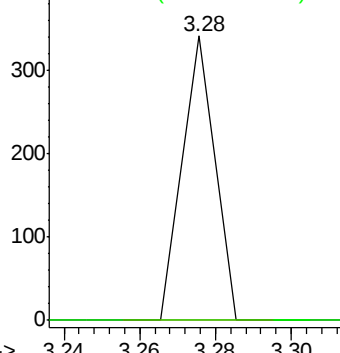
Tert butyl alcohol
 Concen: 1.240 ug/l
 RT: 3.28 min Scan# 310
 Delta R.T. 0.01 min
 Lab File: VD058022.D
 Acq: 8 Jun 2018 17:13

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 59 Resp: 201
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#



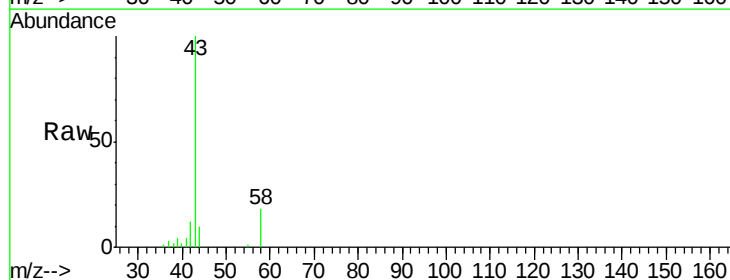
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



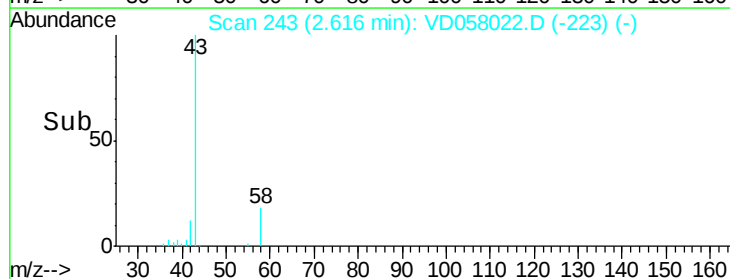
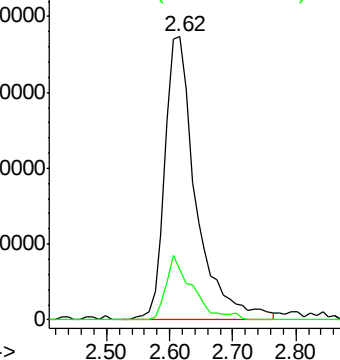
#16

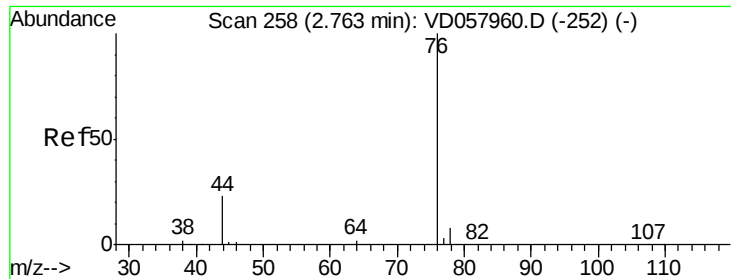
Acetone
 Concen: 145.966 ug/l
 RT: 2.62 min Scan# 243
 Delta R.T. 0.00 min
 Lab File: VD058022.D
 Acq: 8 Jun 2018 17:13

Tgt Ion: 43 Resp: 127237
 Ion Ratio Lower Upper
 43 100
 58 17.7 15.8 23.8



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

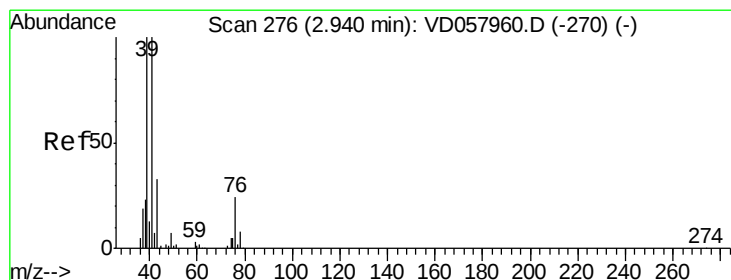
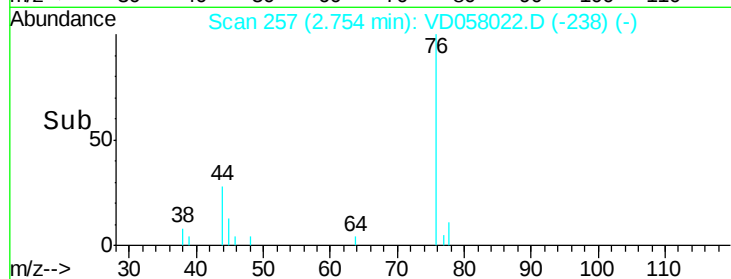
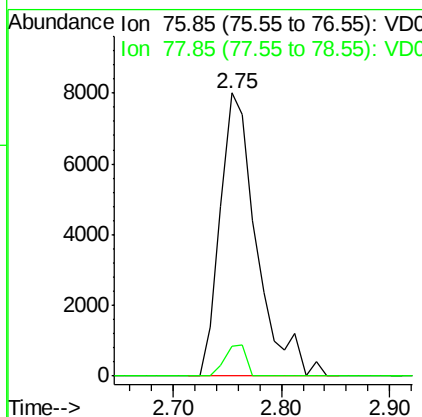
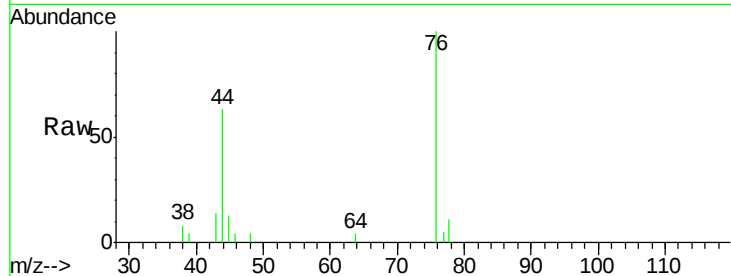




#17
Carbon Disulfide
Concen: 2.128 ug/l
RT: 2.75 min Scan# 257
Delta R.T. -0.01 min
Lab File: VD058022.D
Acq: 8 Jun 2018 17:13

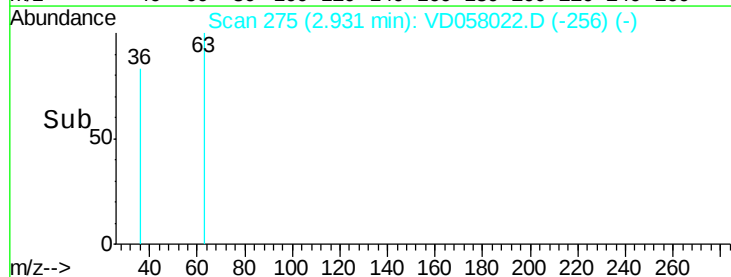
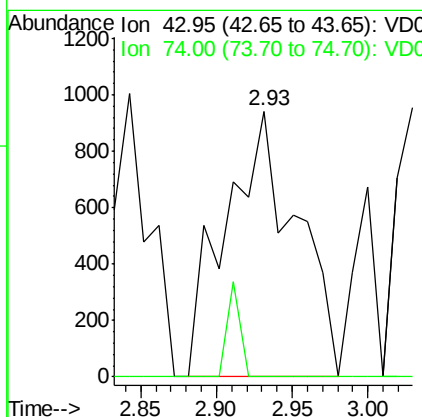
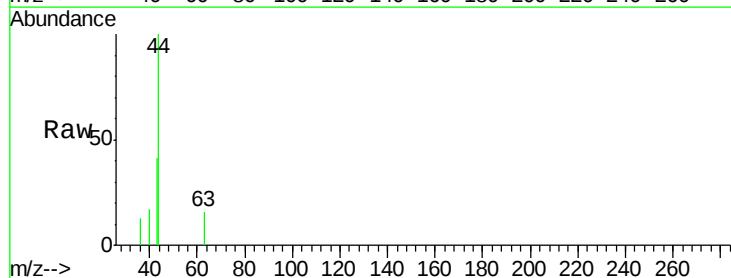
Instrument :
MSVOA_D
ClientSampled :

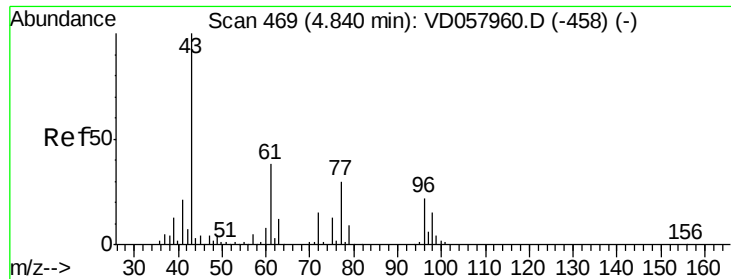
Tot Ion: 76 Resp: 18713
Ion Ratio Lower Upper
76 100
78 10.6 6.7 10.1#



#18
Methyl Acetate
Concen: 1.818 ug/l
RT: 2.93 min Scan# 275
Delta R.T. -0.01 min
Lab File: VD058022.D
Acq: 8 Jun 2018 17:13

Tgt Ion: 43 Resp: 3066
Ion Ratio Lower Upper
43 100
74 0.0 11.2 16.8#





#25

2-Butanone

Concen: 25.019 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058022.D

Acq: 8 Jun 2018 17:13

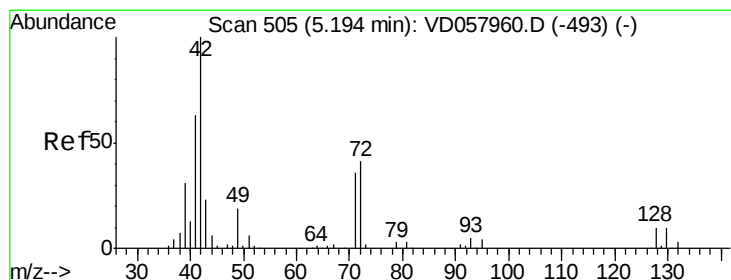
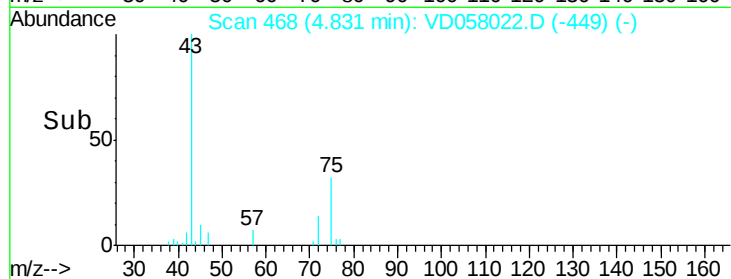
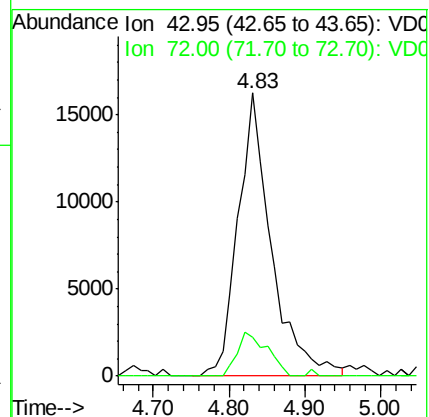
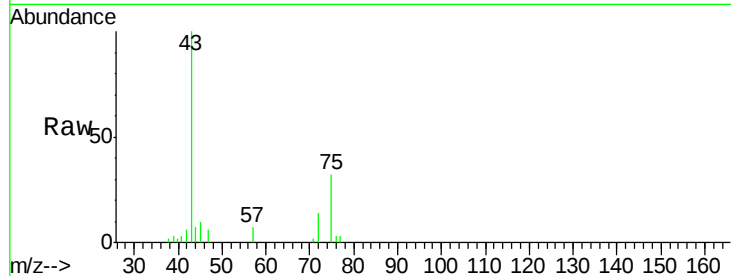
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 49564

Ion Ratio Lower Upper

43 100

72 13.9 12.0 18.0



#29

Tetrahydrofuran

Concen: 1.706 ug/l

RT: 5.18 min Scan# 503

Delta R.T. -0.02 min

Lab File: VD058022.D

Acq: 8 Jun 2018 17:13

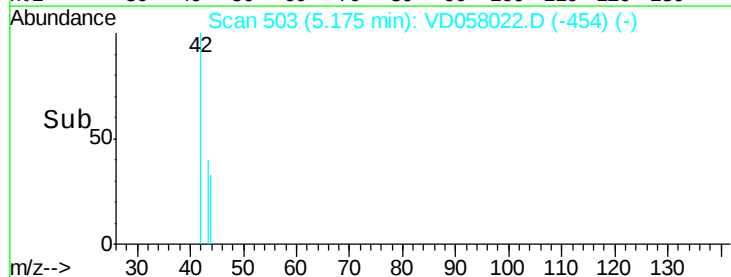
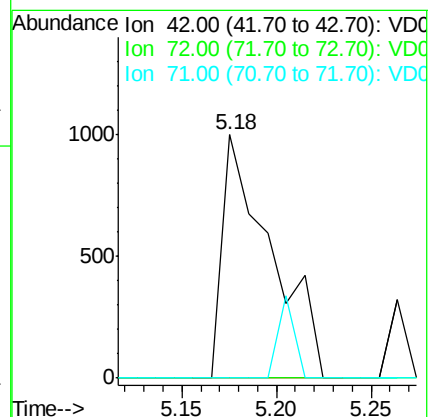
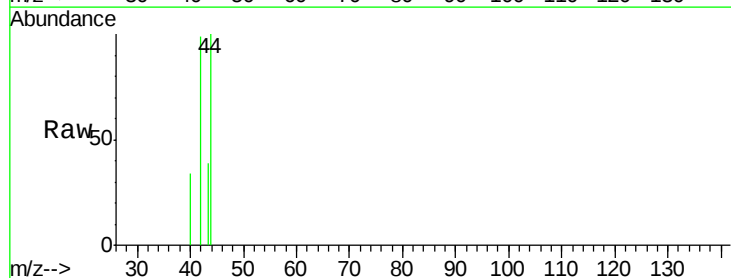
Tgt Ion: 42 Resp: 1772

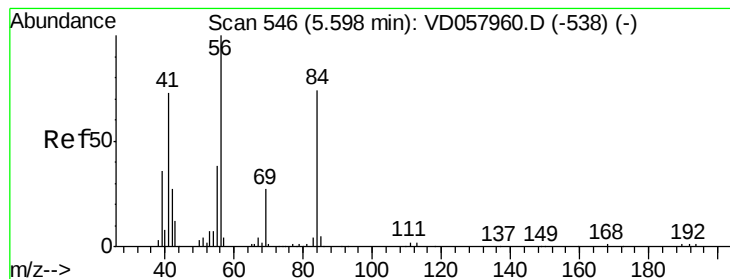
Ion Ratio Lower Upper

42 100

72 0.0 28.5 42.7#

71 0.0 27.9 41.9#





#31

Cyclohexane

Concen: 1.800 ug/l

RT: 5.63 min Scan# 549

Delta R.T. 0.03 min

Lab File: VD058022.D

Acq: 8 Jun 2018 17:13

Instrument :

MSVOA_D

ClientSampleId :

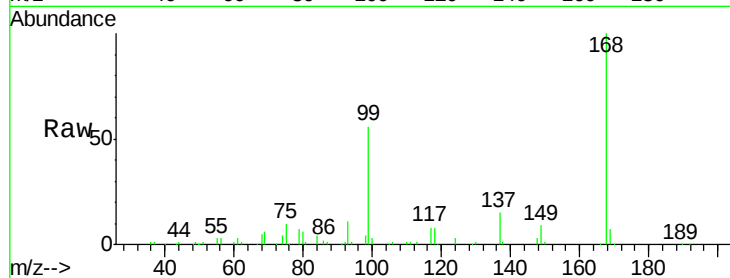
Tot Ion: 56 Resp: 18936

Ion Ratio Lower Upper

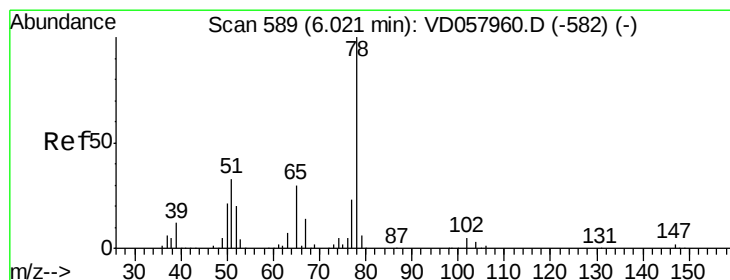
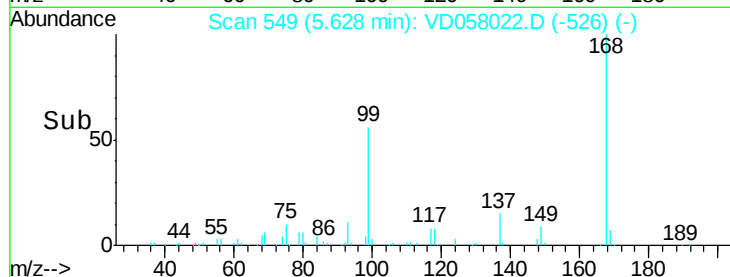
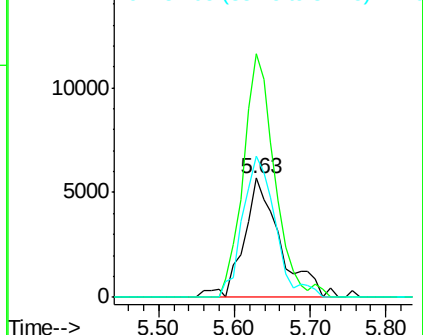
56 100

69 204.5 21.5 32.3#

84 118.9 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: VD058022.D

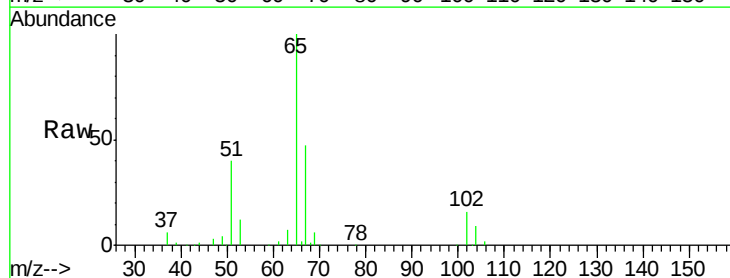
Acq: 8 Jun 2018 17:13

Tgt Ion: 65 Resp: 325869

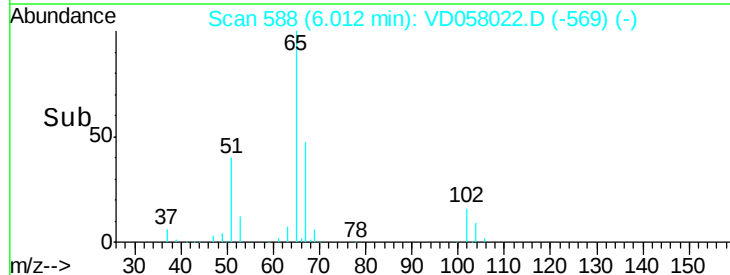
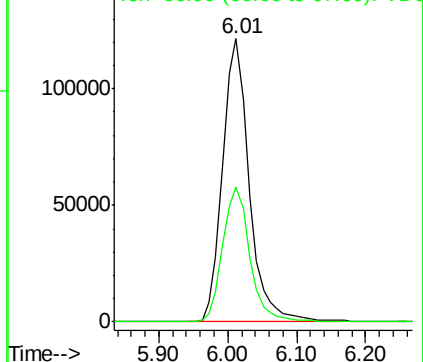
Ion Ratio Lower Upper

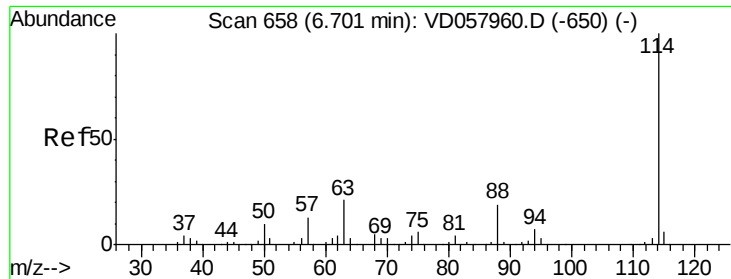
65 100

67 47.5 0.0 94.0



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

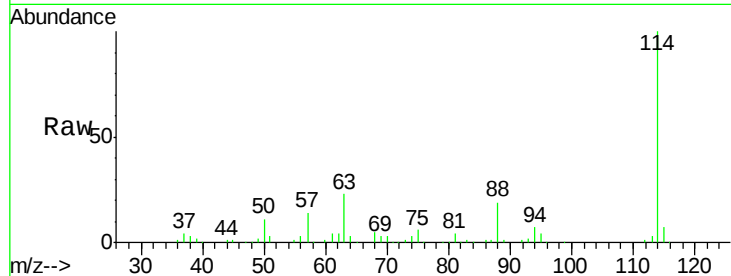




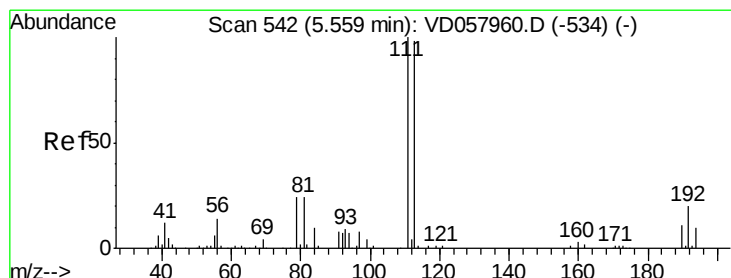
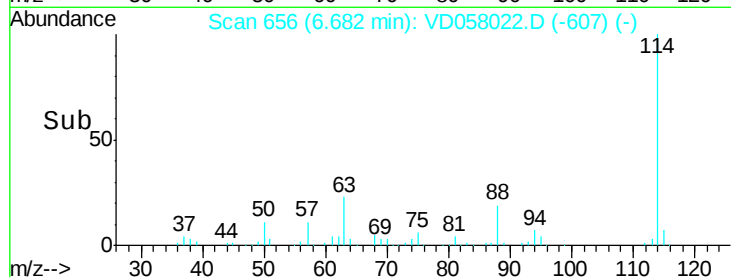
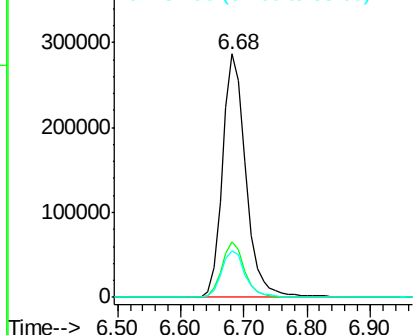
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.68 min Scan# 656
 Delta R.T. -0.02 min
 Lab File: VD058022.D
 Acq: 8 Jun 2018 17:13

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 735190
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 42.8
 88 19.0 0.0 37.8

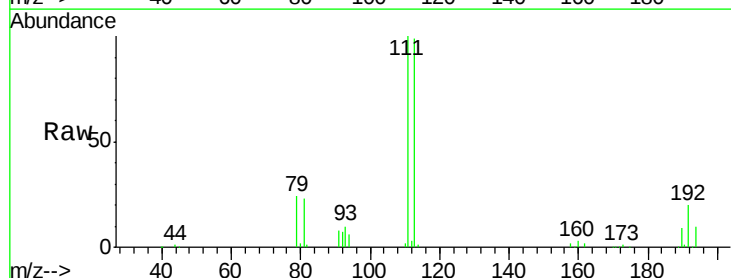


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

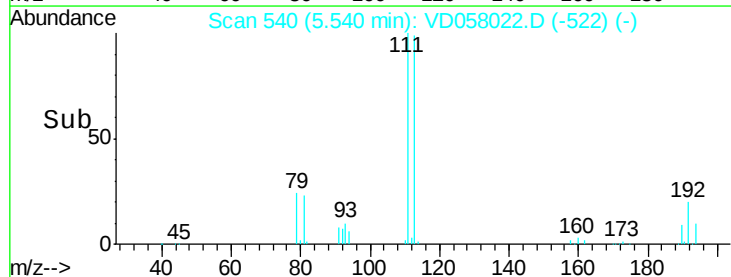
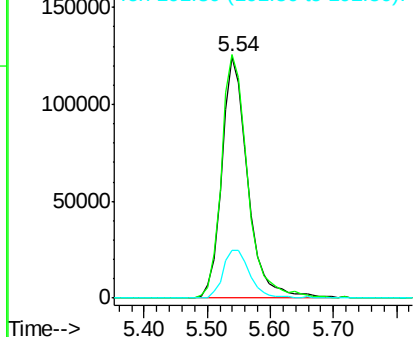


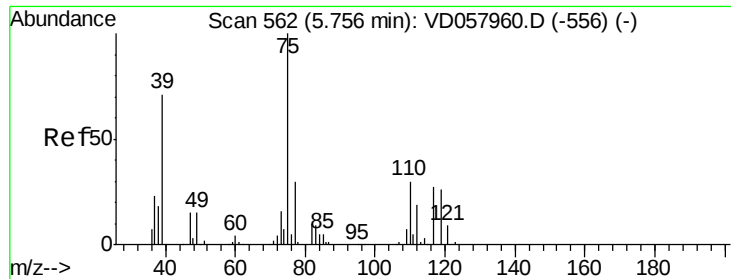
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.54 min Scan# 540
 Delta R.T. -0.02 min
 Lab File: VD058022.D
 Acq: 8 Jun 2018 17:13

Tgt Ion:113 Resp: 353457
 Ion Ratio Lower Upper
 113 100
 111 101.0 81.5 122.3
 192 19.7 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: 6.214 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.13 min

Lab File: VD058022.D

Acq: 8 Jun 2018 17:13

Instrument :

MSVOA_D

ClientSampleId :

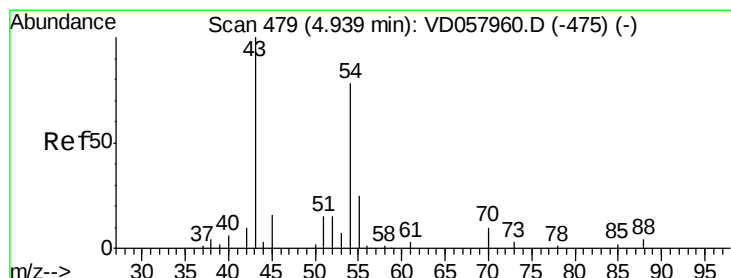
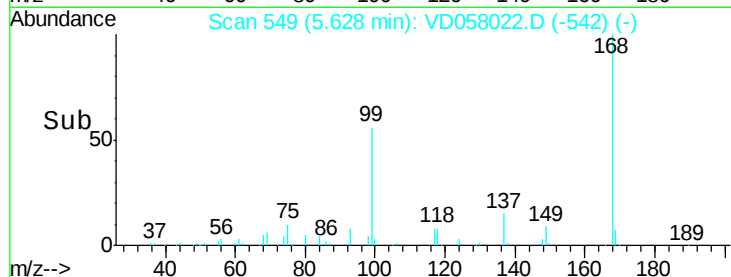
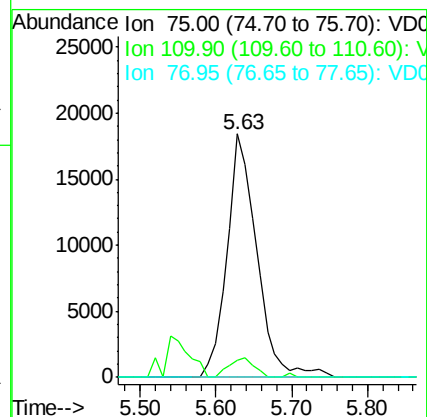
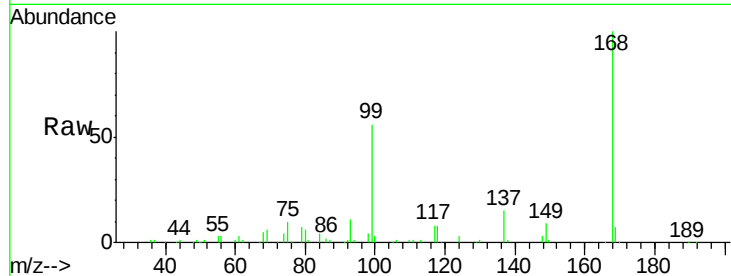
Tot Ion: 75 Resp: 50336

Ion Ratio Lower Upper

75 100

110 7.1 14.8 44.3#

77 0.0 23.9 35.9#



#37

Ethyl Acetate

Concen: 11.214 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.11 min

Lab File: VD058022.D

Acq: 8 Jun 2018 17:13

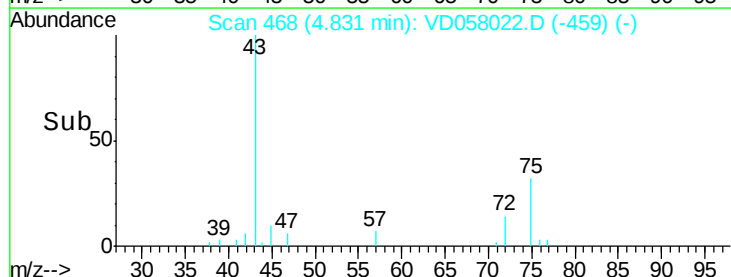
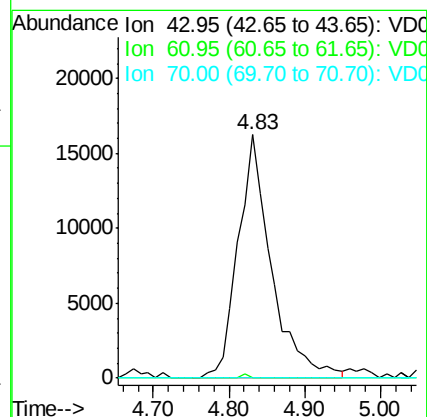
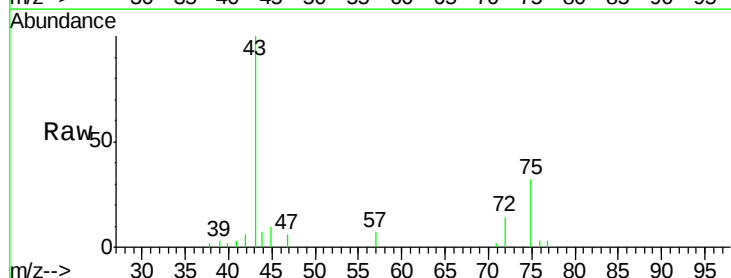
Tgt Ion: 43 Resp: 49564

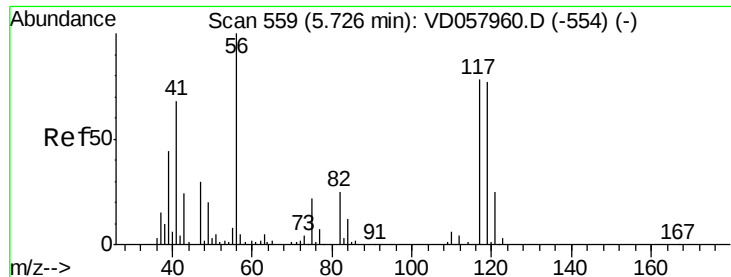
Ion Ratio Lower Upper

43 100

61 0.0 9.9 14.9#

70 0.0 5.7 8.5#

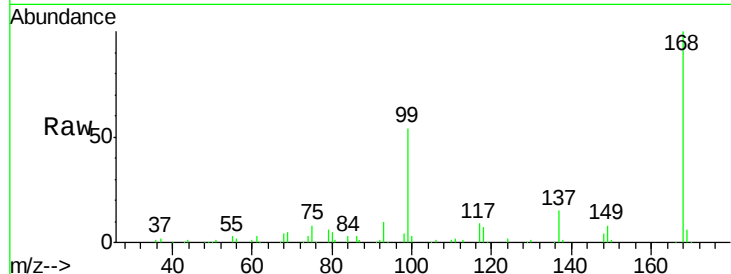




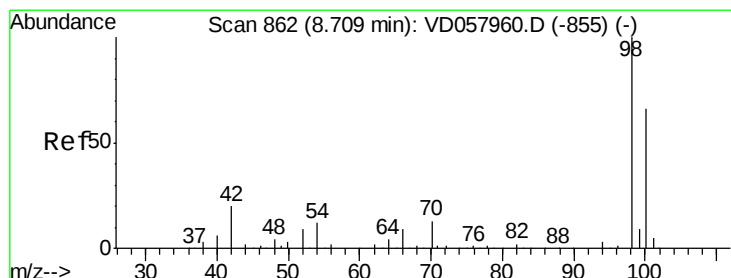
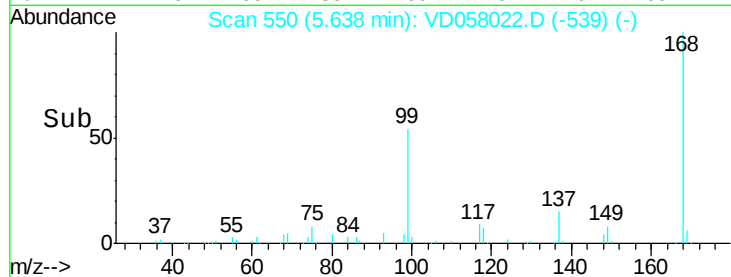
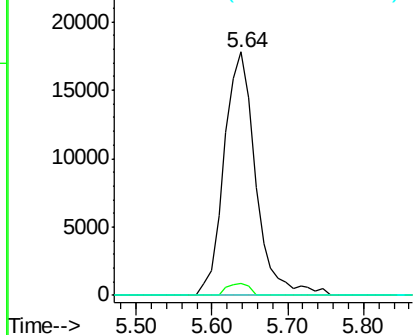
#38
Carbon Tetrachloride
Concen: 6.442 ug/l
RT: 5.64 min Scan# 550
Delta R.T. -0.09 min
Lab File: VD058022.D
Acq: 8 Jun 2018 17:13

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 51424
Ion Ratio Lower Upper
117 100
119 5.0 76.1 114.1#
121 0.0 24.9 37.3#

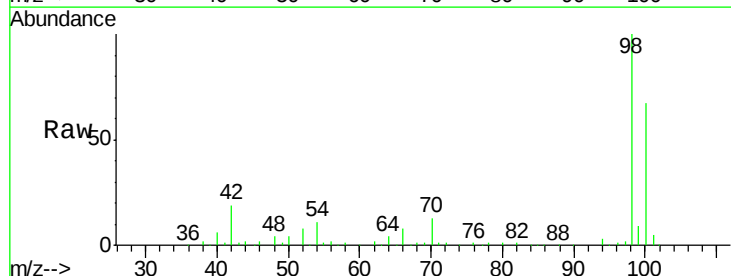


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

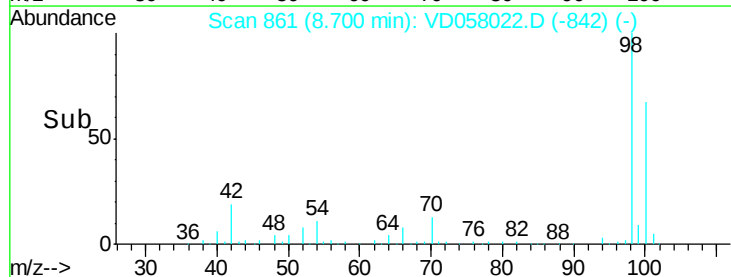
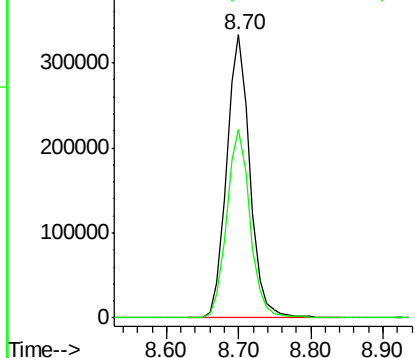


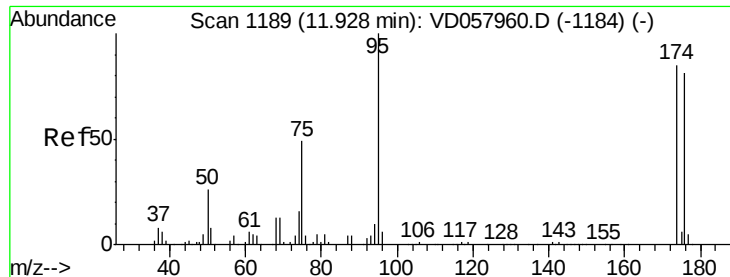
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.70 min Scan# 861
Delta R.T. -0.01 min
Lab File: VD058022.D
Acq: 8 Jun 2018 17:13

Tgt Ion: 98 Resp: 743753
Ion Ratio Lower Upper
98 100
100 66.7 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: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD058022.D

Acq: 8 Jun 2018 17:13

Instrument :

MSVOA_D

ClientSampleId :

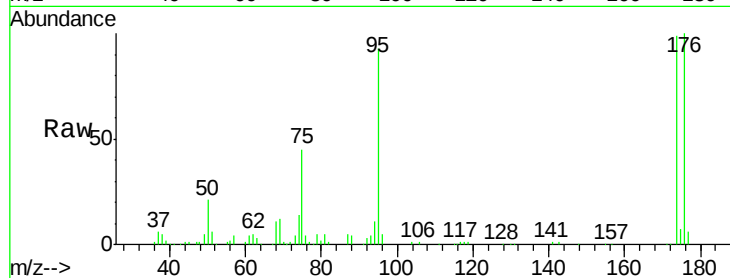
Tot Ion: 95 Resp: 242752

Ion Ratio Lower Upper

95 100

174 106.9 0.0 169.4

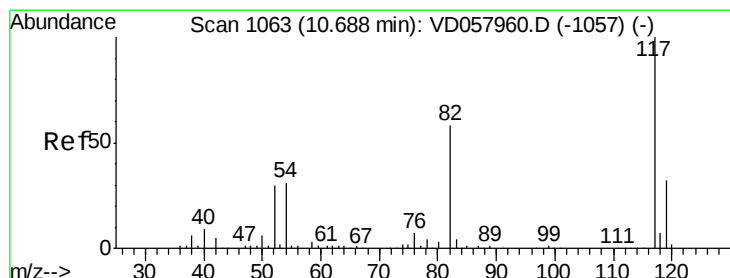
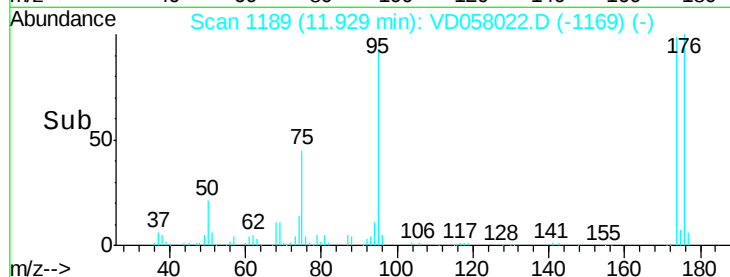
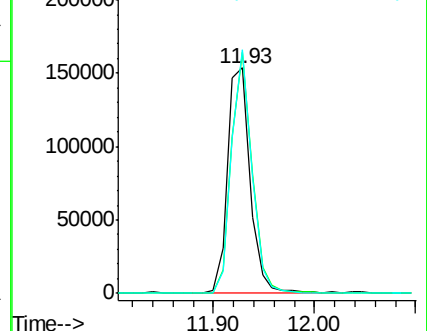
176 107.9 0.0 162.6



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: VD058022.D

Acq: 8 Jun 2018 17:13

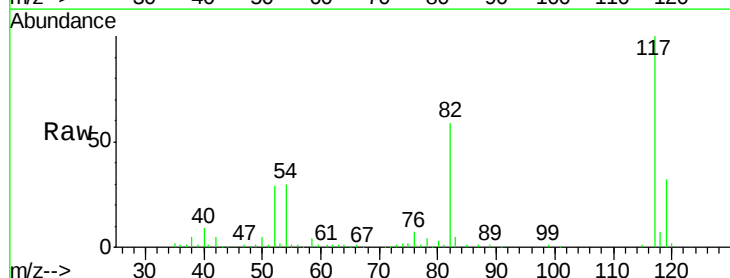
Tgt Ion: 117 Resp: 523221

Ion Ratio Lower Upper

117 100

82 59.1 46.8 70.2

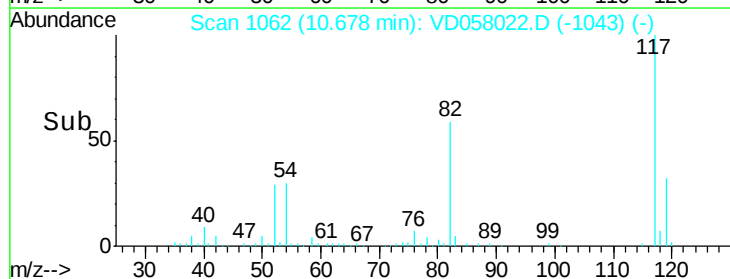
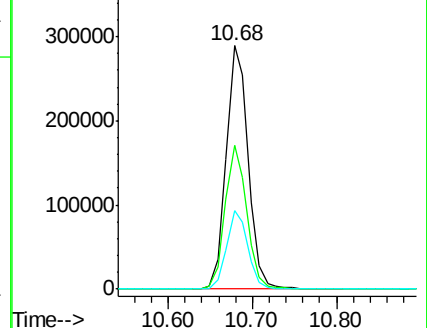
119 32.0 25.8 38.6

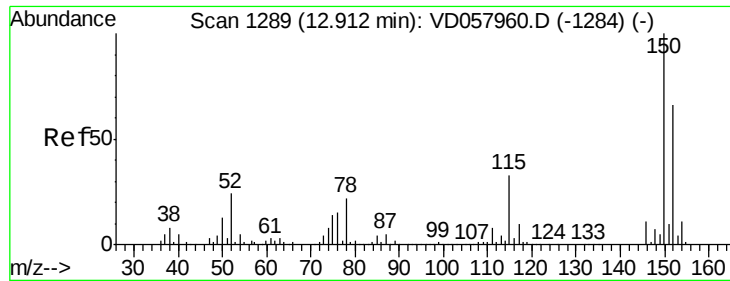


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD058022.D

Acq: 8 Jun 2018 17:13

Instrument :

MSVOA_D

ClientSampleId :

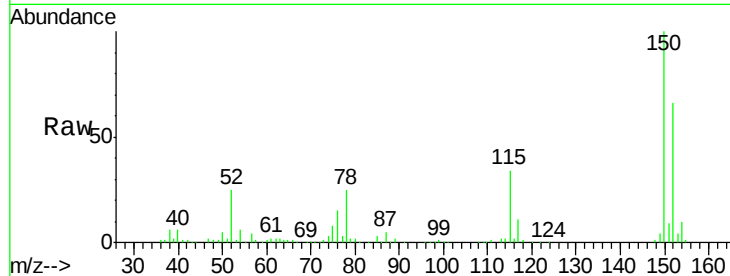
Tot Ion:152 Resp: 193697

Ion Ratio Lower Upper

152 100

115 51.2 25.6 76.6

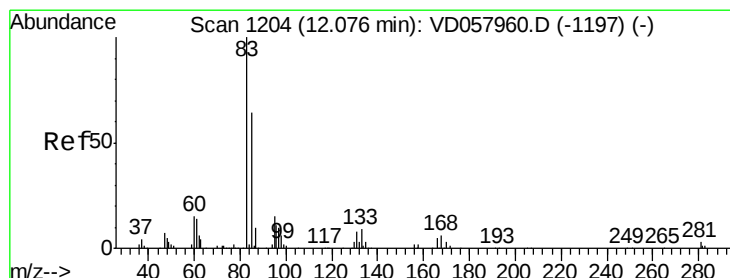
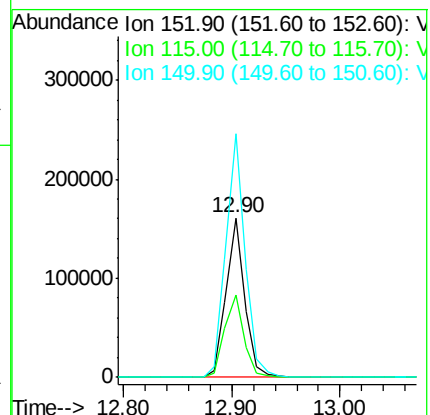
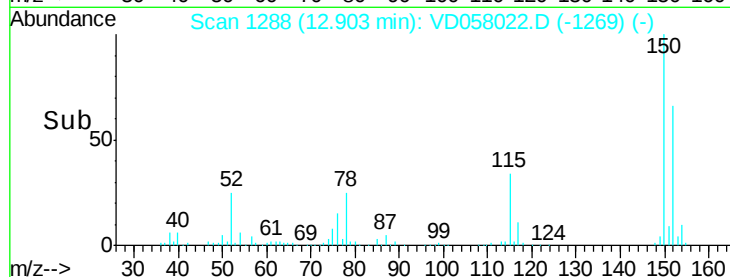
150 152.6 0.0 306.8



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: 2.150 ug/l

RT: 12.09 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VD058022.D

Acq: 8 Jun 2018 17:13

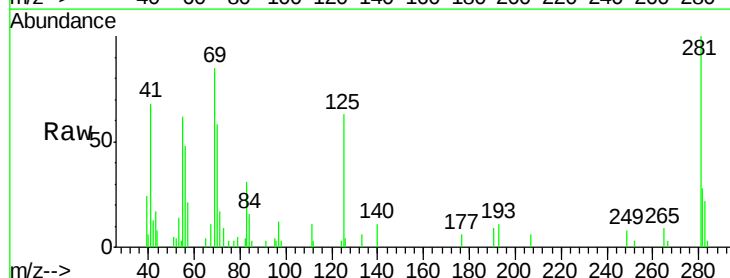
Tgt Ion: 83 Resp: 6015

Ion Ratio Lower Upper

83 100

131 0.0 4.2 12.6#

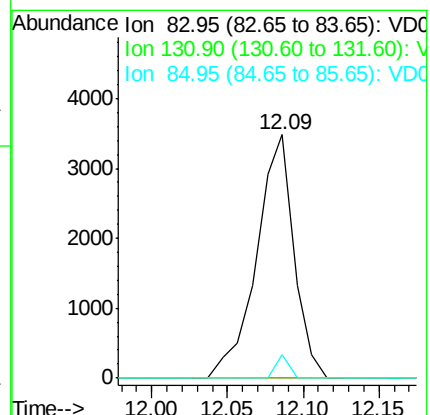
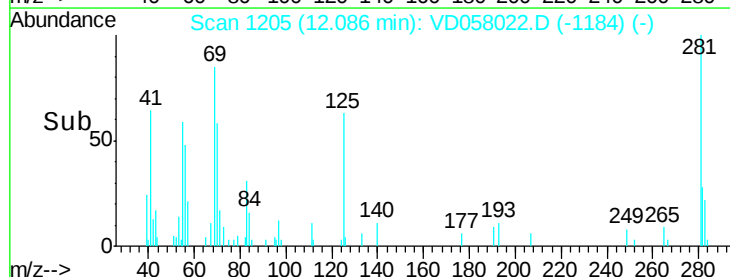
85 9.7 31.9 95.5#

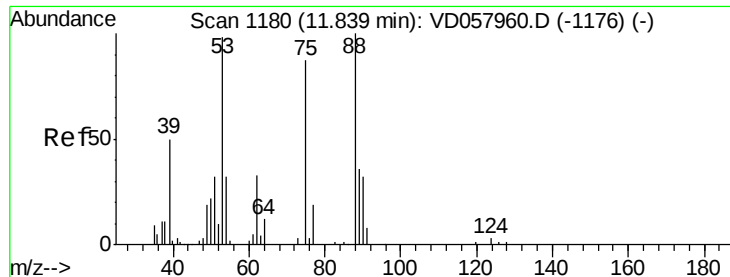


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 164.039 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058022.D

Acq: 8 Jun 2018 17:13

Instrument :

MSVOA_D

ClientSampleId :

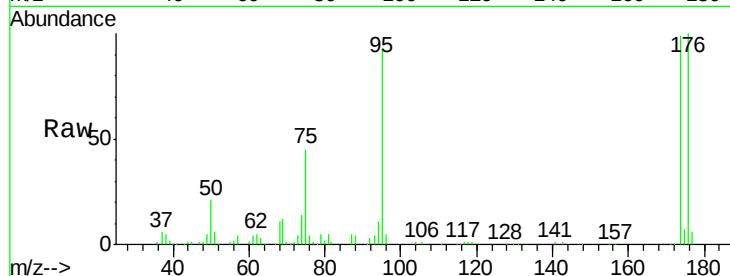
Tot Ion: 75 Resp: 118217

Ion Ratio Lower Upper

75 100

53 0.0 89.3 133.9#

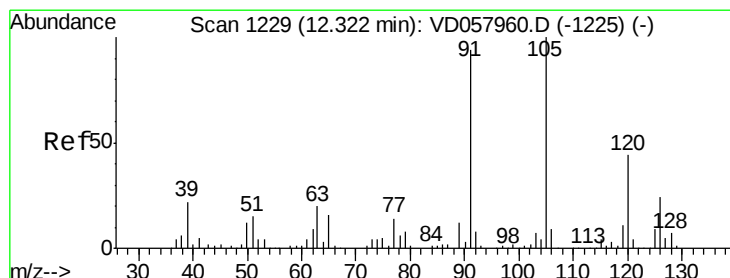
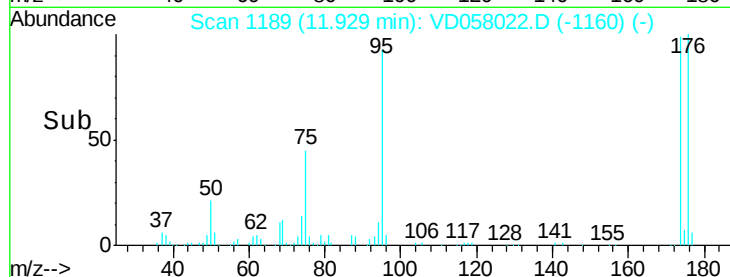
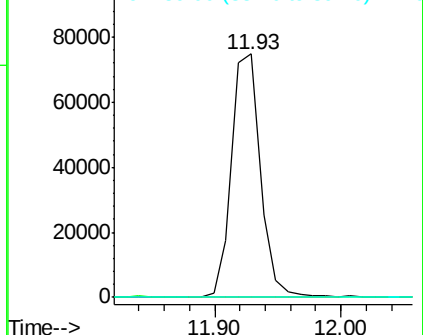
89 0.0 33.3 49.9#



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: VD058022.D

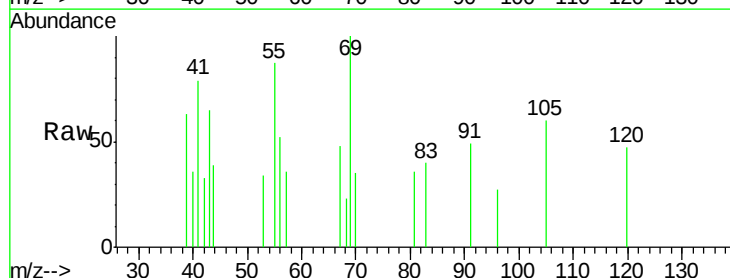
Acq: 8 Jun 2018 17:13

Tgt Ion: 91 Resp: 845

Ion Ratio Lower Upper

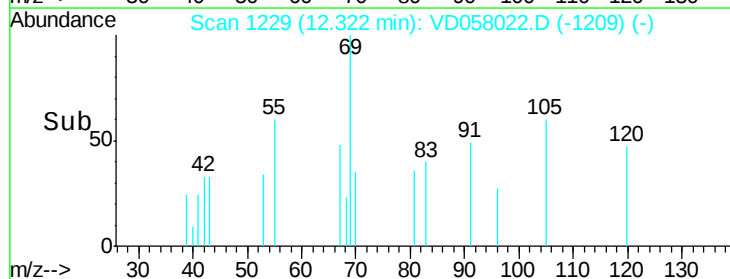
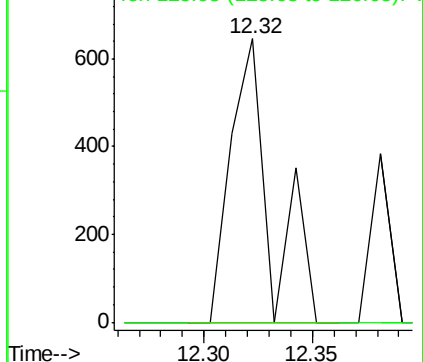
91 100

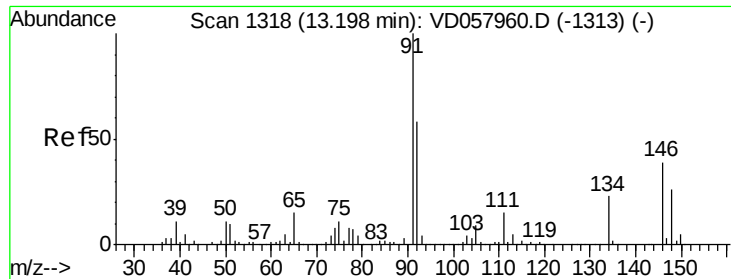
126 0.0 12.5 37.5#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

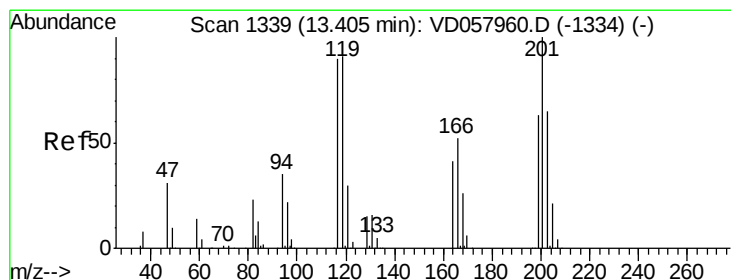
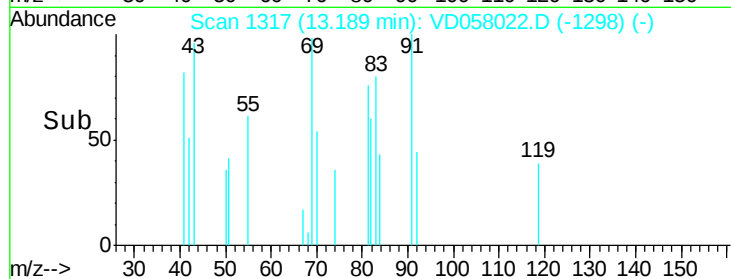
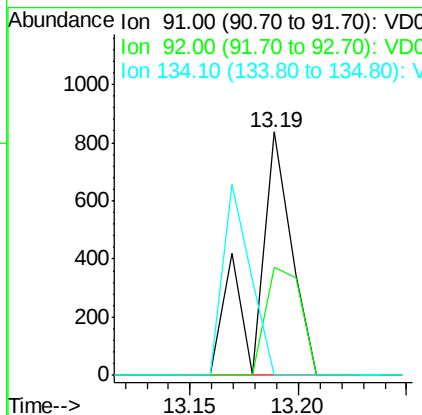
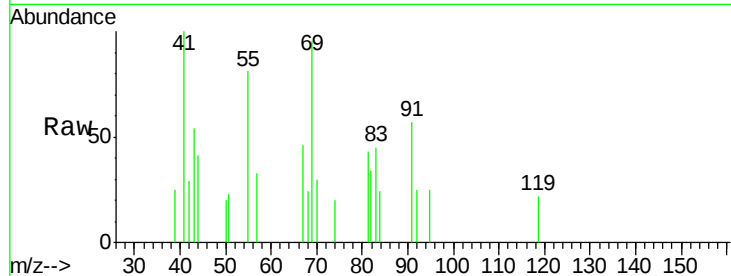




#89
n-Butylbenzene
Concen: Below Cal
RT: 13.19 min Scan# 1317
Delta R.T. -0.01 min
Lab File: VD058022.D
Acq: 8 Jun 2018 17:13

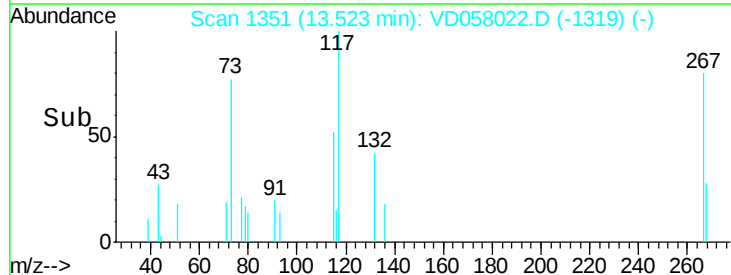
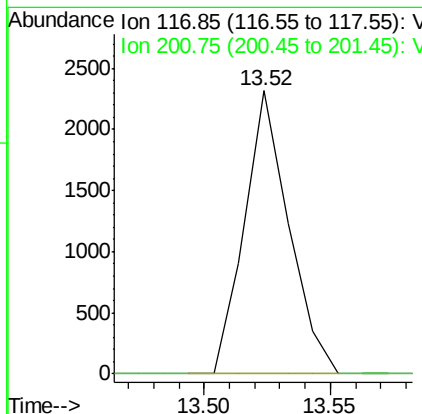
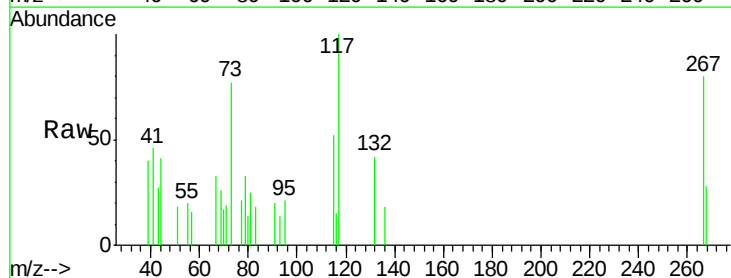
Instrument :
MSVOA_D
ClientSampleId :

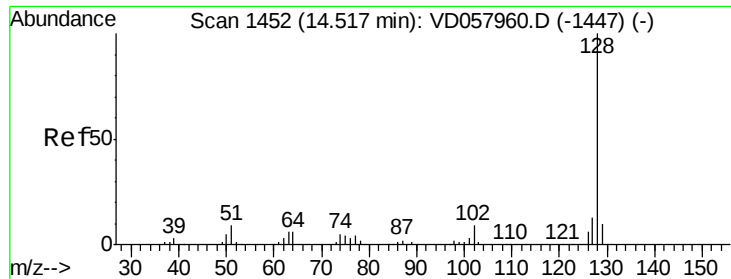
Tot Ion: 91 Resp: 946
Ion Ratio Lower Upper
91 100
92 44.4 29.2 87.6
134 0.0 11.3 33.9#



#90
Hexachloroethane
Concen: 1.013 ug/l
RT: 13.52 min Scan# 1351
Delta R.T. 0.12 min
Lab File: VD058022.D
Acq: 8 Jun 2018 17:13

Tgt Ion: 117 Resp: 2841
Ion Ratio Lower Upper
117 100
201 0.0 55.4 166.0#

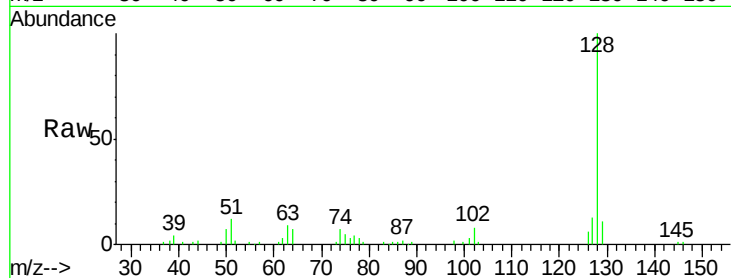




#95
 Naphthalene
 Concen: 12.780 ug/l
 RT: 14.51 min Scan# 1451
 Delta R.T. -0.01 min
 Lab File: VD058022.D
 Acq: 8 Jun 2018 17:13

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:128 Resp: 79916
 Ion Ratio Lower Upper
 128 100
 127 12.6 10.2 15.2
 129 10.6 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

