

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042219\
 Data File : VD061937.D
 Acq On : 22 Apr 2019 14:30
 Operator : VA/AP
 Sample : K2199-15RE
 Misc : 6.16g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 22 23:31:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 13:49:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	250094	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	508601	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	452517	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	190474	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	136288	65.02	ug/l	0.00
Spiked Amount			Recovery	=	130.04%	
35) Dibromofluoromethane	6.92	113	167661	43.63	ug/l	0.00
Spiked Amount			Recovery	=	87.26%	
50) Toluene-d8	10.41	98	391418	42.99	ug/l	0.00
Spiked Amount			Recovery	=	85.98%	
62) 4-Bromofluorobenzene	13.56	95	165162	44.76	ug/l	0.00
Spiked Amount			Recovery	=	89.52%	

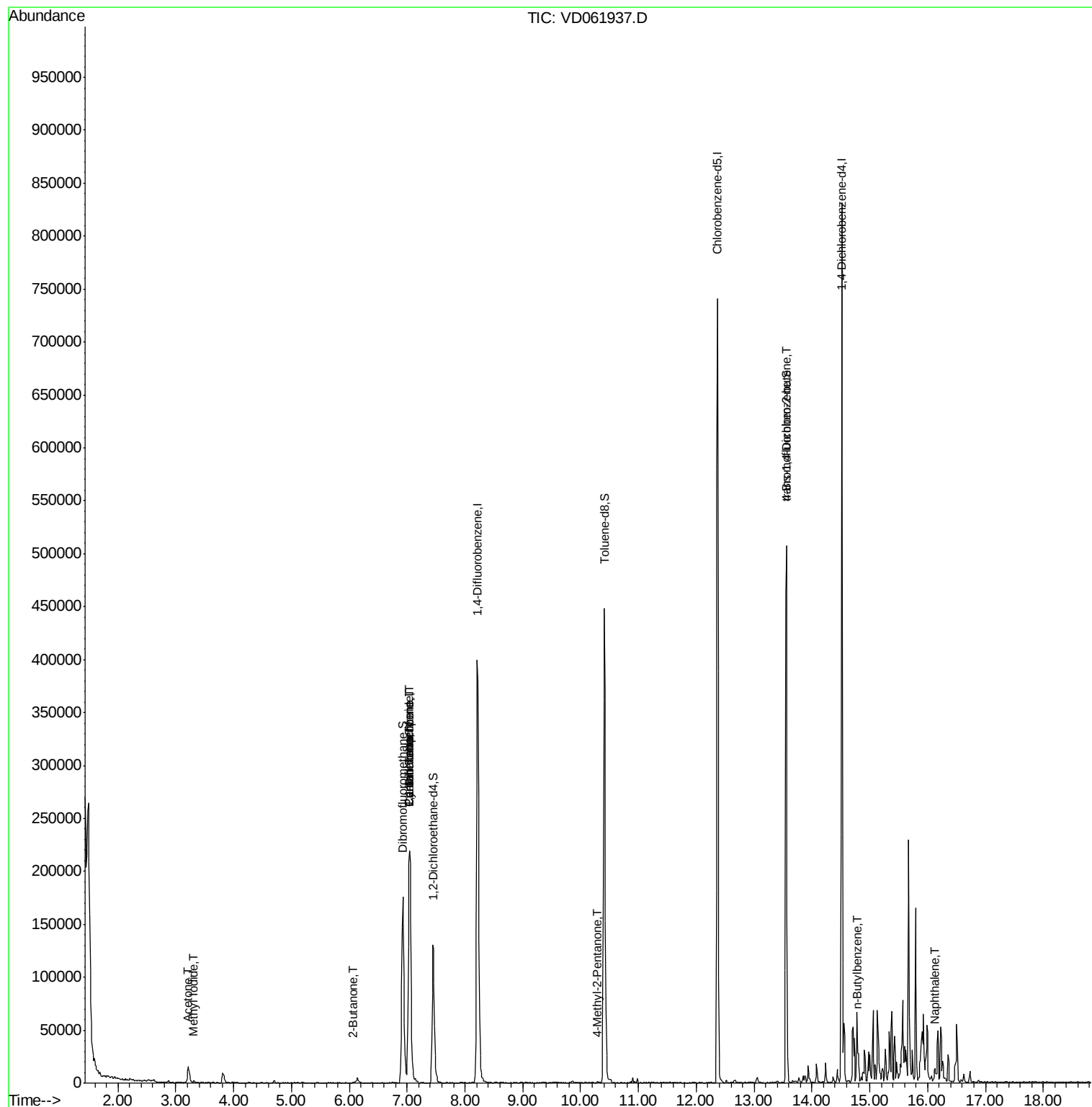
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	653	Below Cal	#	12
10) Methyl Iodide	3.31	142	888	3.700	ug/l #	37
16) Acetone	3.21	43	30375	58.799	ug/l	99
20) Methylene Chloride	3.81	84	6415	Below Cal	#	88
25) 2-Butanone	6.06	43	960	1.632	ug/l #	56
31) Cyclohexane	7.03	56	4255	1.341	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	17645	4.246	ug/l #	47
38) Carbon Tetrachloride	7.05	117	23752	4.526	ug/l #	12
51) 4-Methyl-2-Pentanone	10.30	43	1735	1.133	ug/l #	37
81) trans-1,4-Dichloro-2-buten	13.55	75	64405	77.481	ug/l #	16
89) n-Butylbenzene	14.80	91	12429	1.261	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	15.37	75	230	Below Cal	#	1
95) Naphthalene	16.12	128	7500	1.736	ug/l	97

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

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Quant Title : SW846 8260
QLast Update : Thu Apr 18 13:49:04 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD061937.D

Acq: 22 Apr 2019 14:30

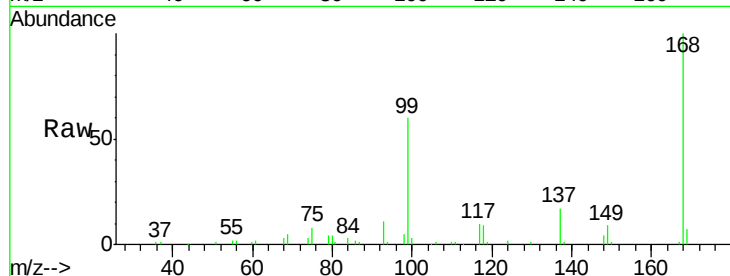
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 250094

Ion Ratio Lower Upper

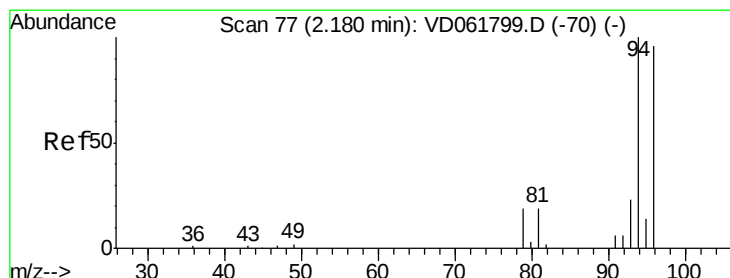
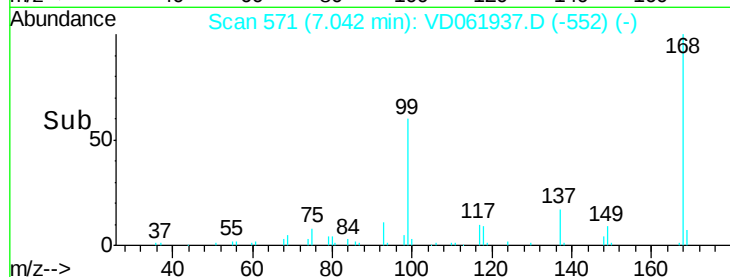
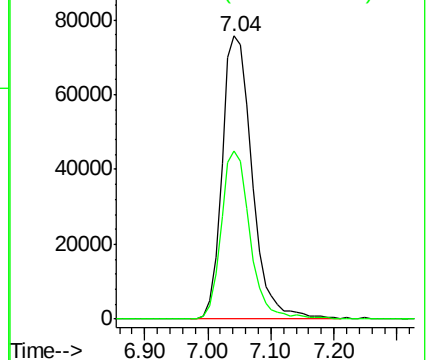
168 100

99 59.5 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.17 min Scan# 76

Delta R.T. 0.02 min

Lab File: VD061937.D

Acq: 22 Apr 2019 14:30

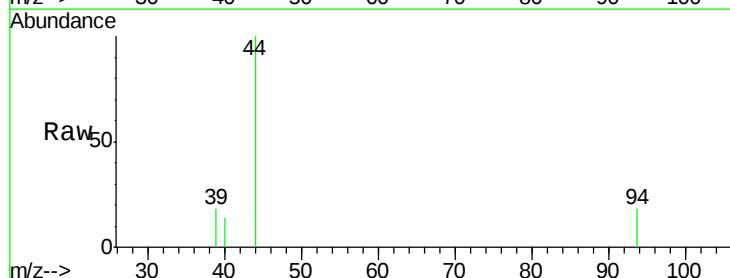
Tgt Ion: 94 Resp: 653

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

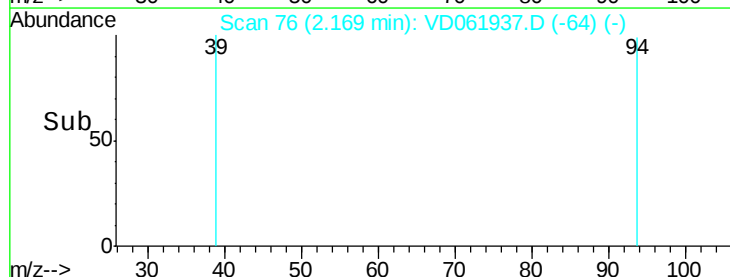
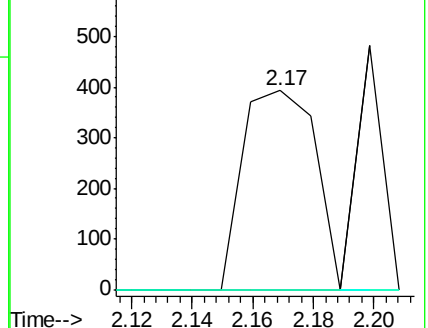
93 0.0 18.5 27.7#

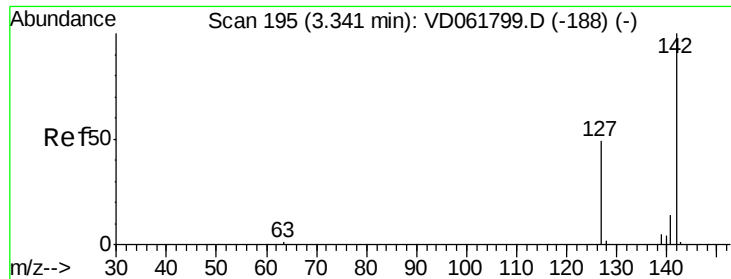


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

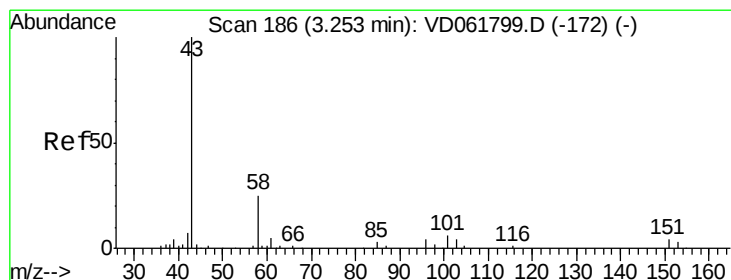
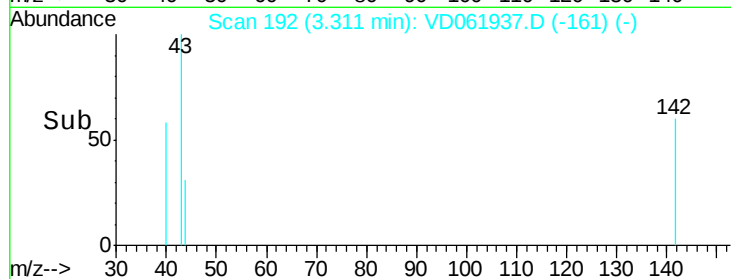
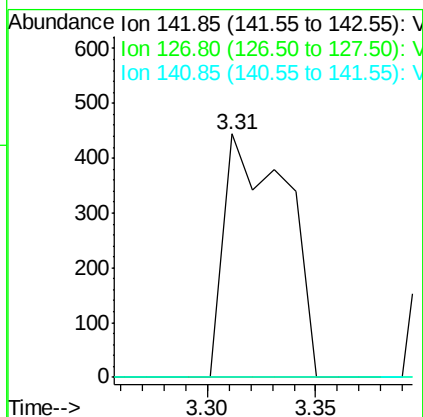
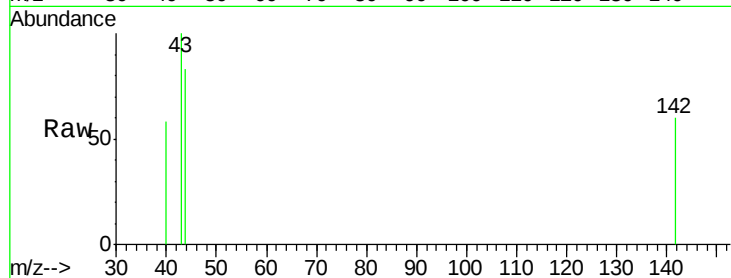




#10
Methvl Iodide
Concen: 3.700 ug/l
RT: 3.31 min Scan# 192
Delta R.T. 0.00 min
Lab File: VD061937.D
Acq: 22 Apr 2019 14:30

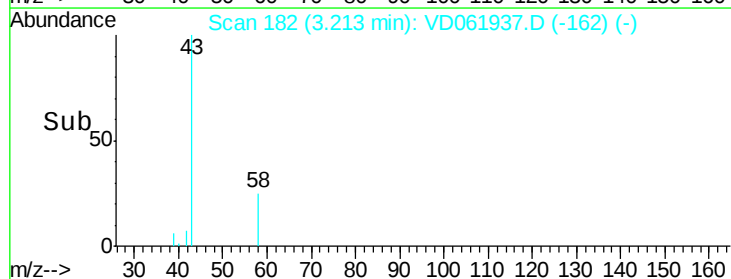
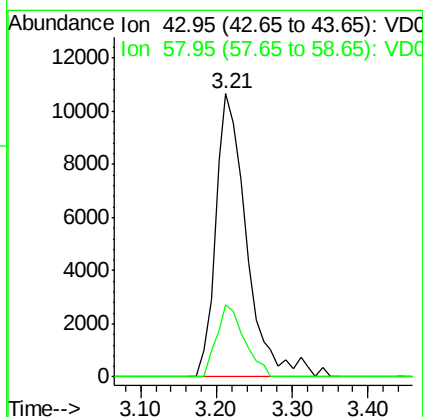
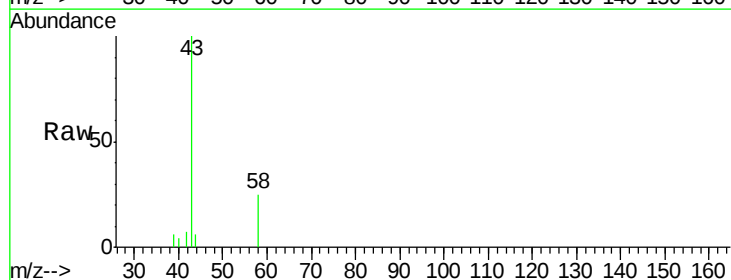
Instrument :
MSVOA_D
ClientSampleId :

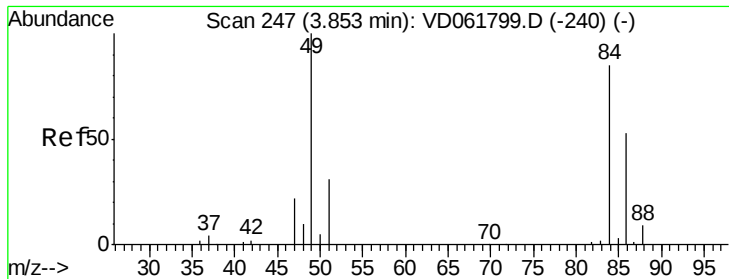
Tot Ion:142 Resp: 888
Ion Ratio Lower Upper
142 100
127 0.0 38.8 58.2#
141 0.0 11.4 17.0#



#16
Acetone
Concen: 58.799 ug/l
RT: 3.21 min Scan# 182
Delta R.T. 0.00 min
Lab File: VD061937.D
Acq: 22 Apr 2019 14:30

Tgt Ion: 43 Resp: 30375
Ion Ratio Lower Upper
43 100
58 25.5 19.9 29.9





#20

Methvlene Chloride

Concen: Below Cal

RT: 3.81 min Scan# 243

Delta R.T. 0.00 min

Lab File: VD061937.D

Acq: 22 Apr 2019 14:30

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 84 Resp: 6415

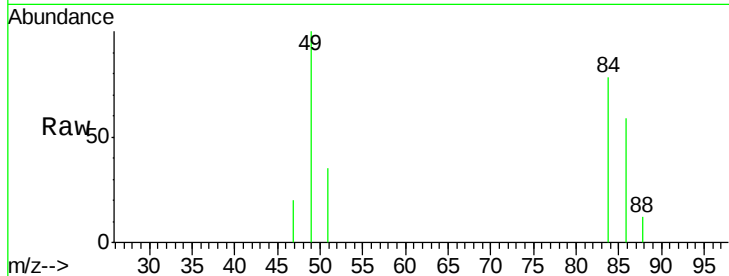
Ion Ratio Lower Upper

84 100

49 127.8 94.0 141.0

51 44.7 29.0 43.4#

86 75.1 49.8 74.6#

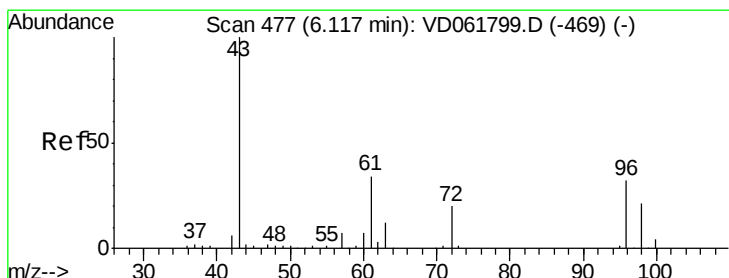
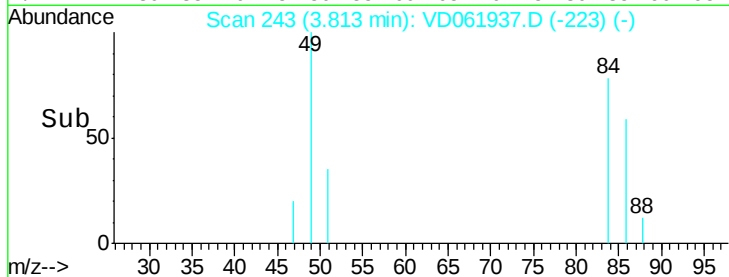
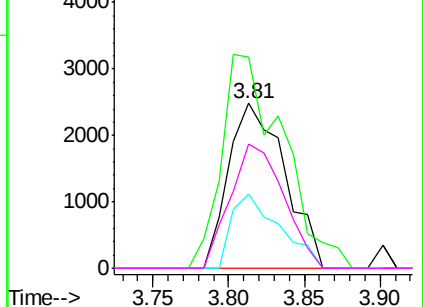


Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 1.632 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.01 min

Lab File: VD061937.D

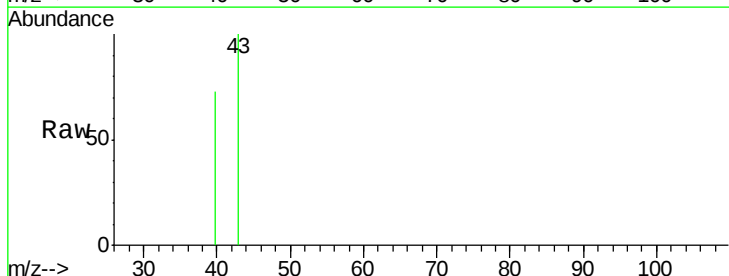
Acq: 22 Apr 2019 14:30

Tgt Ion: 43 Resp: 960

Ion Ratio Lower Upper

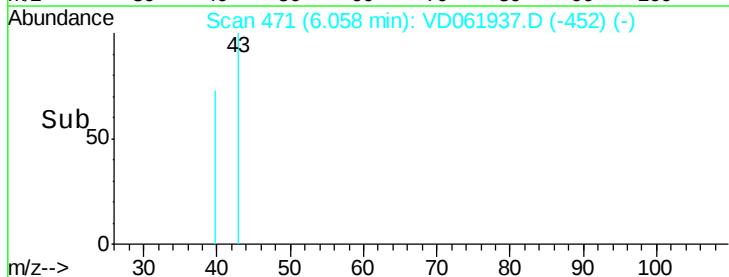
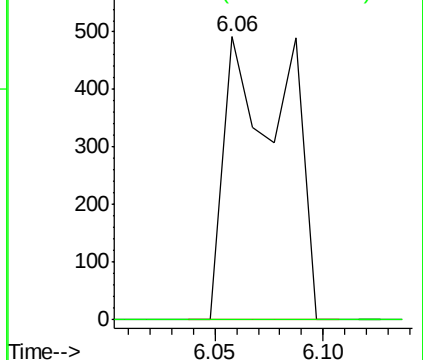
43 100

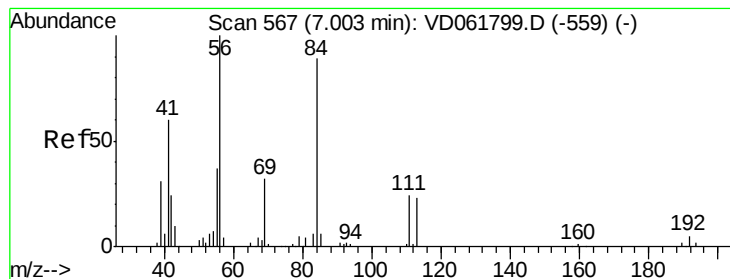
72 0.0 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#31

Cyclohexane

Concen: 1.341 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.08 min

Lab File: VD061937.D

Acq: 22 Apr 2019 14:30

Instrument :

MSVOA_D

ClientSampleId :

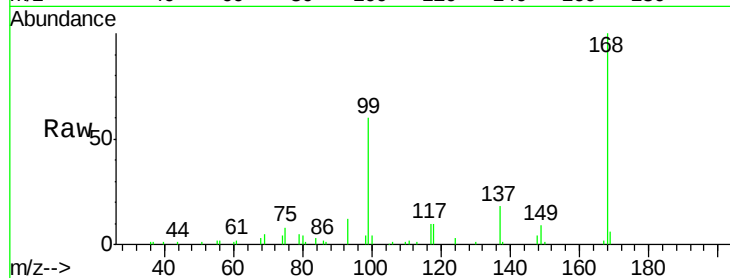
Tot Ion: 56 Resp: 4255

Ion Ratio Lower Upper

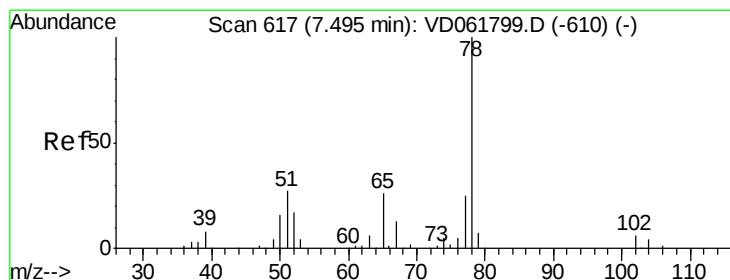
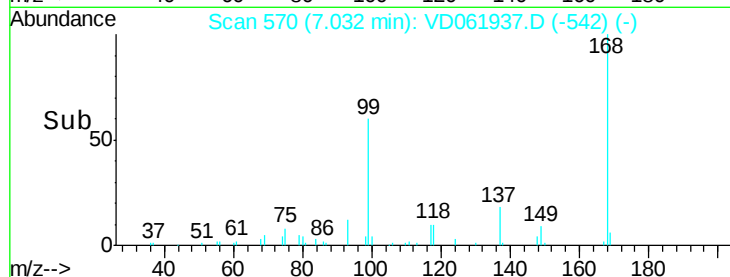
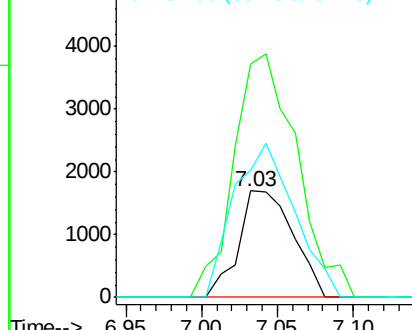
56 100

69 219.3 25.8 38.6#

84 119.3 72.2 108.4#



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: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD061937.D

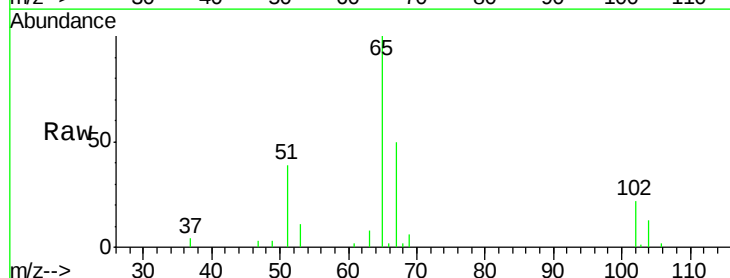
Acq: 22 Apr 2019 14:30

Tgt Ion: 65 Resp: 136288

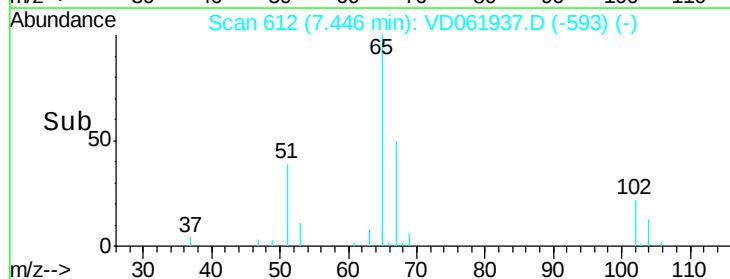
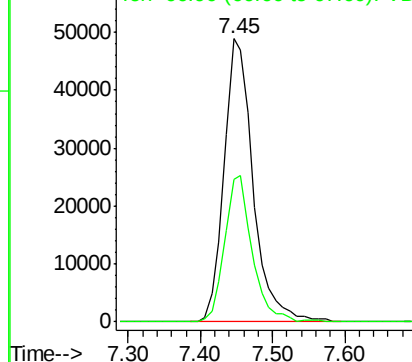
Ion Ratio Lower Upper

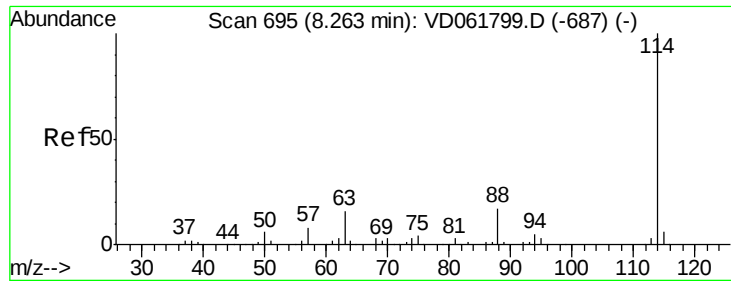
65 100

67 50.4 0.0 98.0



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: 8.21 min Scan# 690

Delta R.T. -0.01 min

Lab File: VD061937.D

Acq: 22 Apr 2019 14:30

Instrument :

MSVOA_D

ClientSampleId :

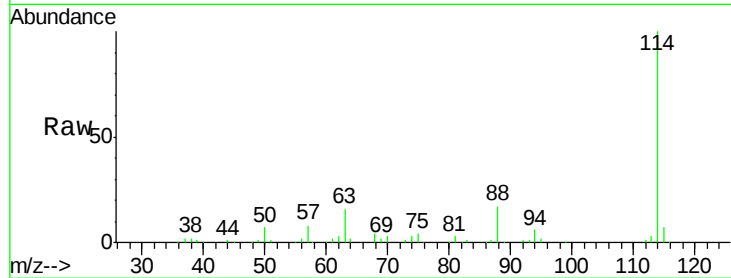
Tot Ion:114 Resp: 508601

Ion Ratio Lower Upper

114 100

63 16.3 0.0 32.4

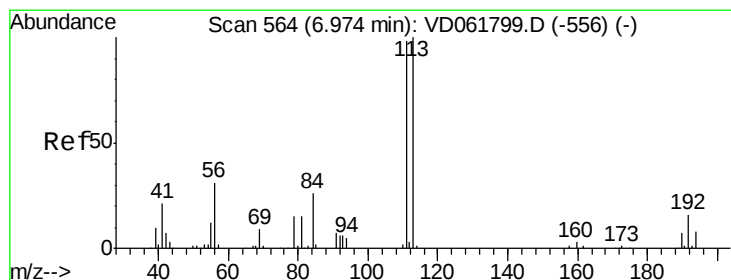
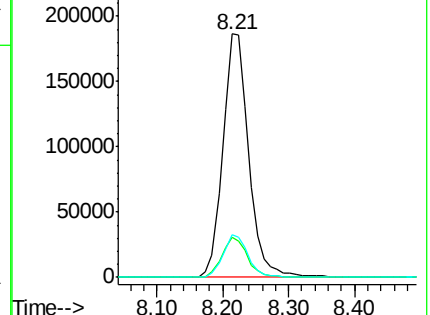
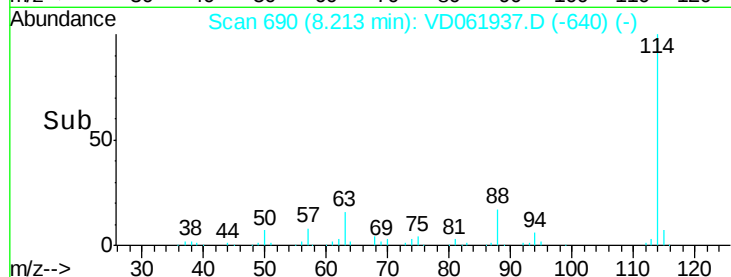
88 17.5 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 559

Delta R.T. 0.00 min

Lab File: VD061937.D

Acq: 22 Apr 2019 14:30

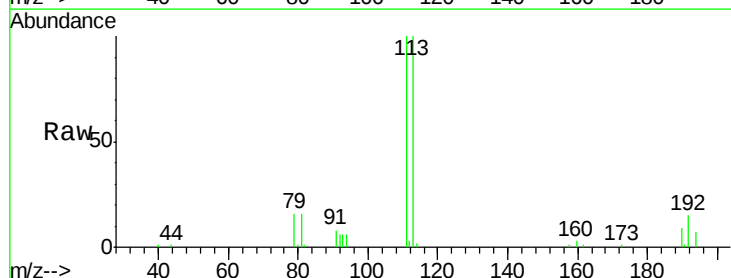
Tgt Ion:113 Resp: 167661

Ion Ratio Lower Upper

113 100

111 99.9 78.5 117.7

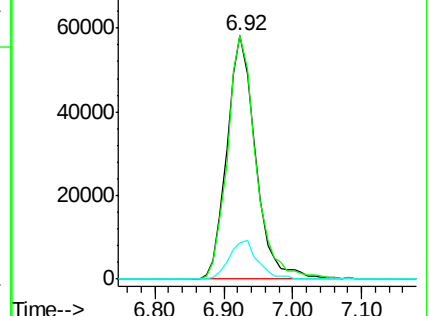
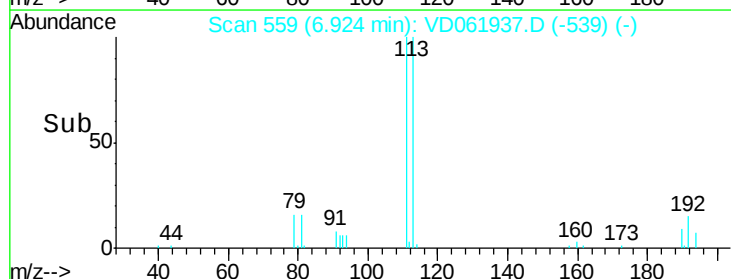
192 14.7 13.0 19.4

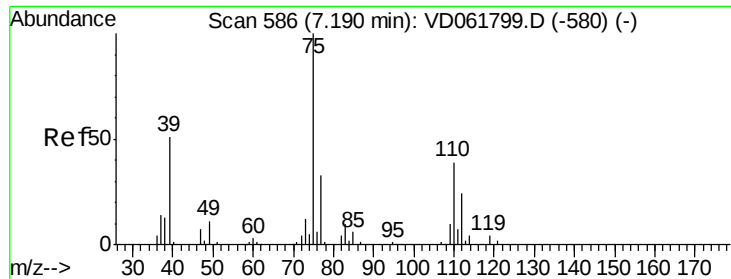


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.246 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.11 min

Lab File: VD061937.D

Acq: 22 Apr 2019 14:30

Instrument :

MSVOA_D

ClientSampleId :

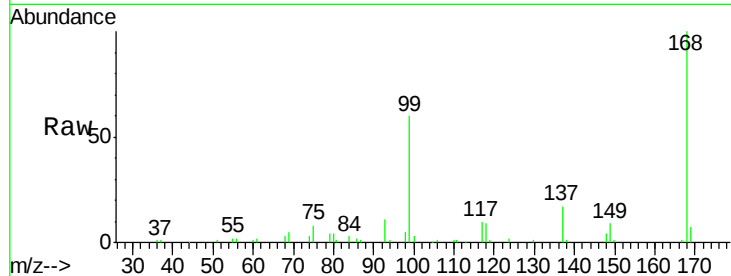
Tot Ion: 75 Resp: 17645

Ion Ratio Lower Upper

75 100

110 8.0 19.1 57.1#

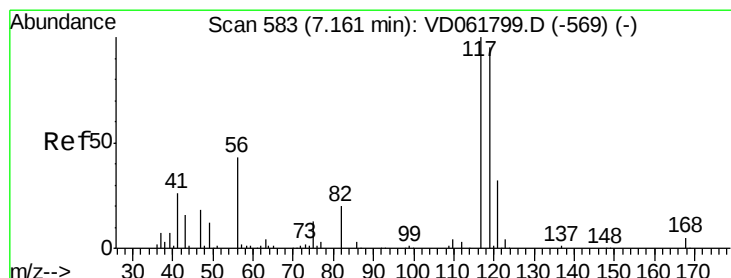
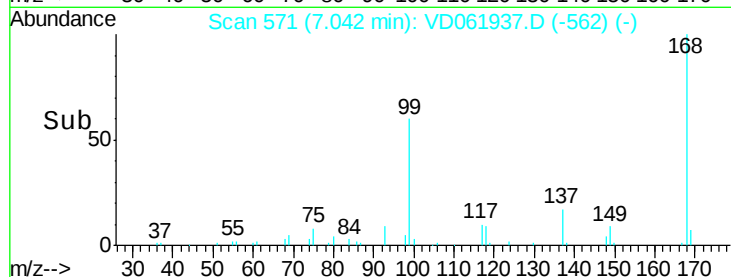
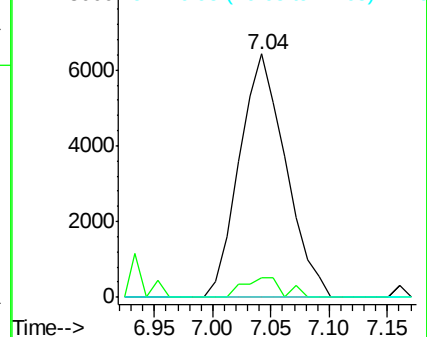
77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 4.526 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.06 min

Lab File: VD061937.D

Acq: 22 Apr 2019 14:30

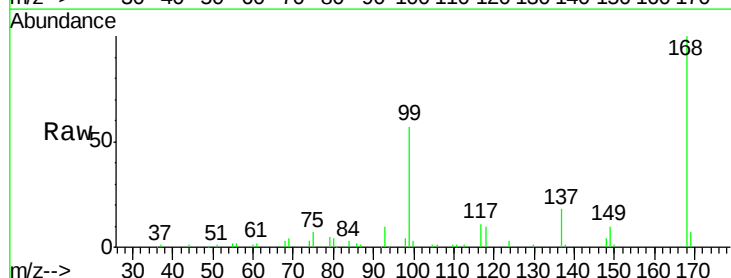
Tgt Ion: 117 Resp: 23752

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

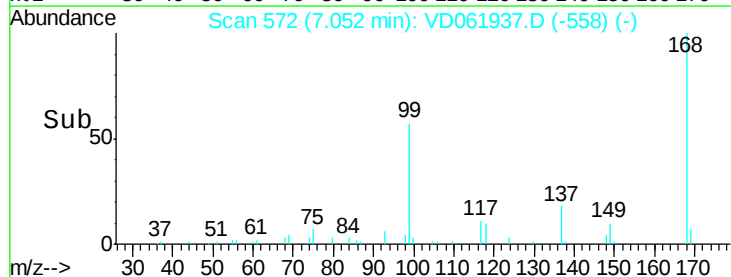
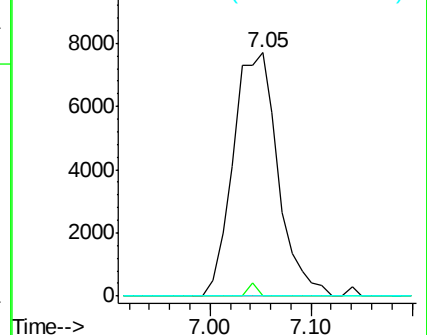
121 0.0 25.9 38.9#

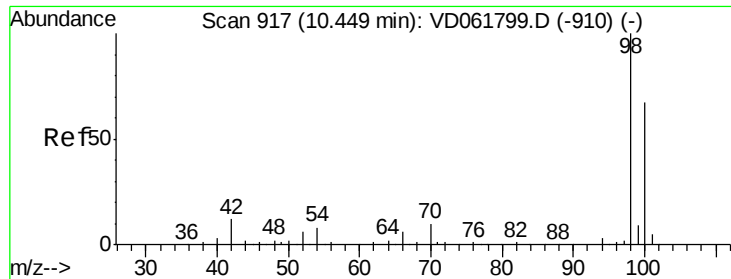


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

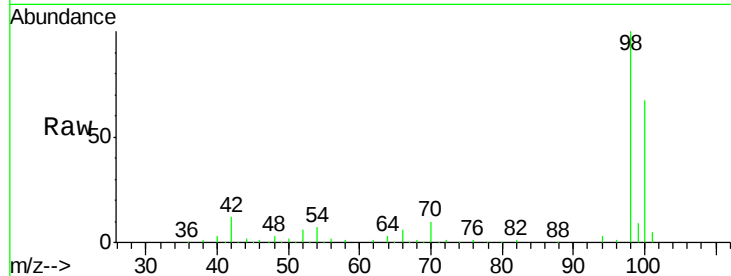




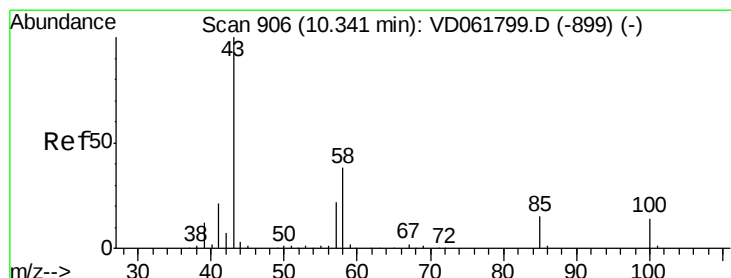
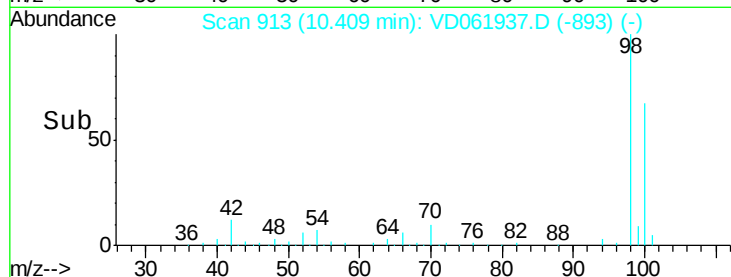
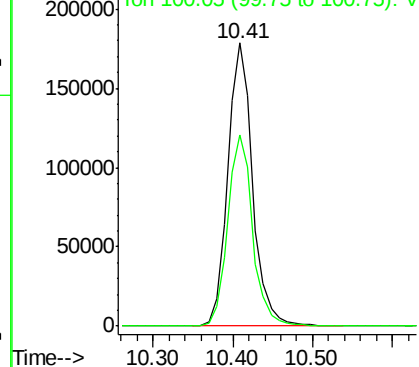
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.00 min
Lab File: VD061937.D
Acq: 22 Apr 2019 14:30

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 391418
Ion Ratio Lower Upper
98 100
100 67.5 53.8 80.8

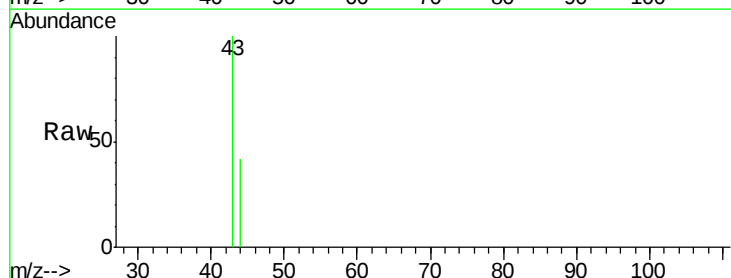


Abundance Ion 98.05 (97.75 to 98.75): VD061799.D (-910) (-)
Ion 100.05 (99.75 to 100.75): VD061799.D (-910) (-)

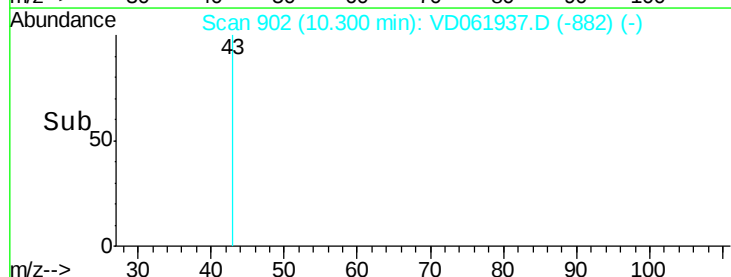
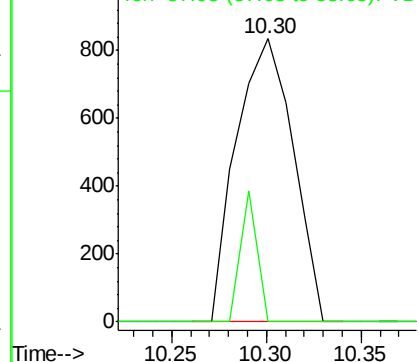


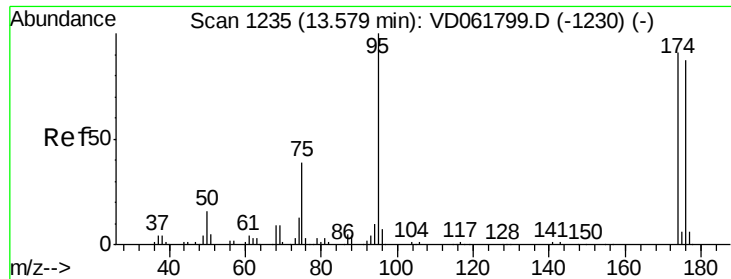
#51
4-Methyl-2-Pentanone
Concen: 1.133 ug/l
RT: 10.30 min Scan# 902
Delta R.T. 0.00 min
Lab File: VD061937.D
Acq: 22 Apr 2019 14:30

Tgt Ion: 43 Resp: 1735
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VD061799.D (-899) (-)
Ion 57.95 (57.65 to 58.65): VD061799.D (-899) (-)

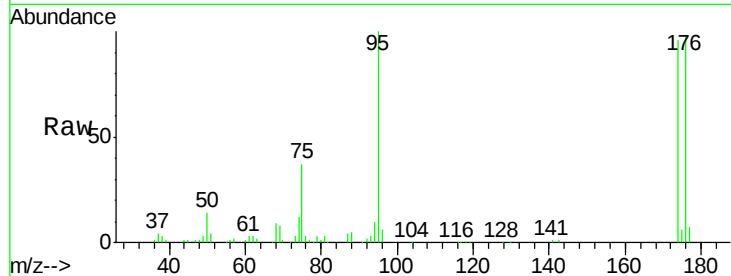




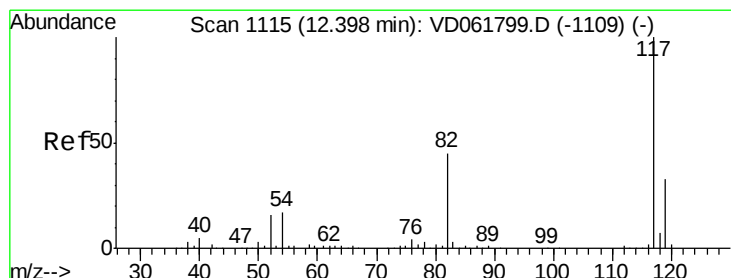
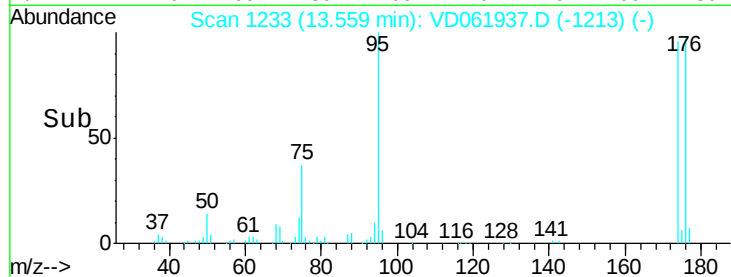
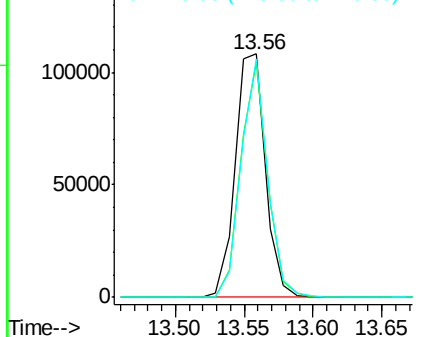
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VD061937.D
Acq: 22 Apr 2019 14:30

Instrument :
MSVOA_D
ClientSampled :

Tot Ion	95	Resp	165162
Ion Ratio	Lower	Upper	
95	100		
174	96.3	0.0	181.8
176	97.9	0.0	174.4

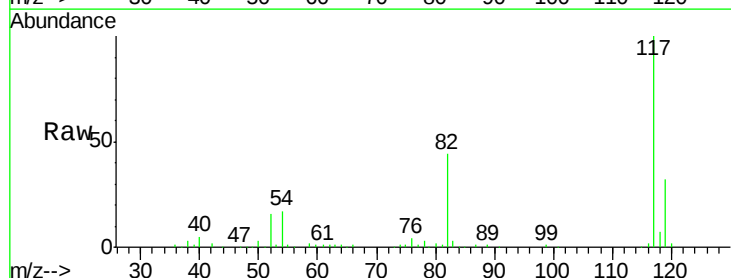


Abundance Ion 95.00 (94.70 to 95.70): VD061799.D (-1230) (-)

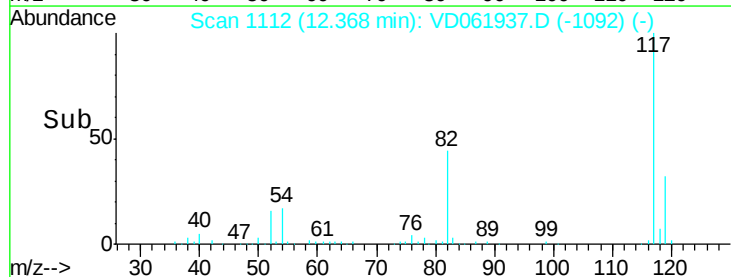
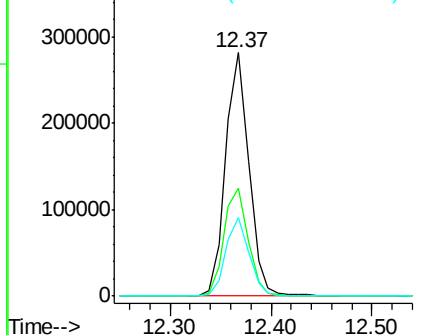


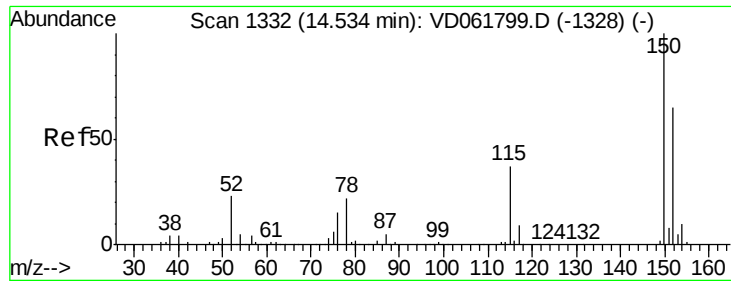
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VD061937.D
Acq: 22 Apr 2019 14:30

Tgt Ion	117	Resp	452517
Ion Ratio	Lower	Upper	
117	100		
82	44.4	36.2	54.2
119	32.1	26.2	39.4



Abundance Ion 116.95 (116.65 to 117.65): VD061799.D (-1109) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD061937.D

Acq: 22 Apr 2019 14:30

Instrument :

MSVOA_D

ClientSampleId :

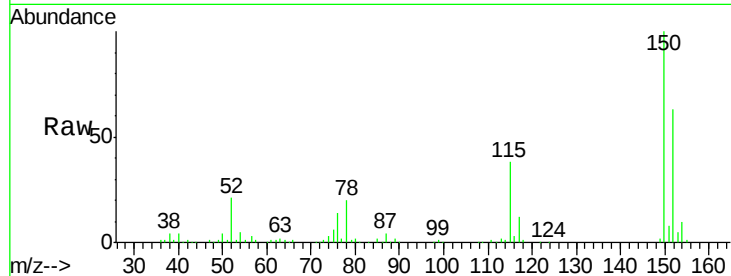
Tot Ion:152 Resp: 190474

Ion Ratio Lower Upper

152 100

115 60.8 30.9 92.7

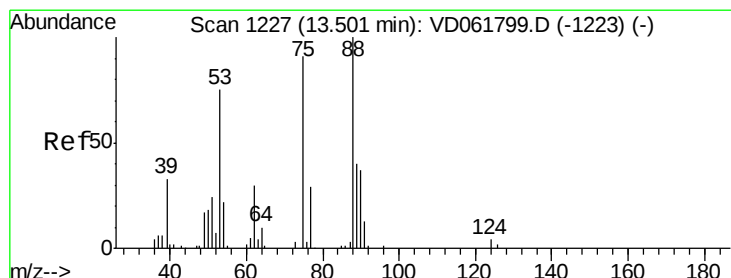
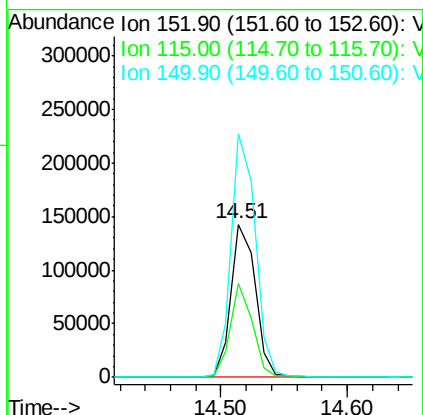
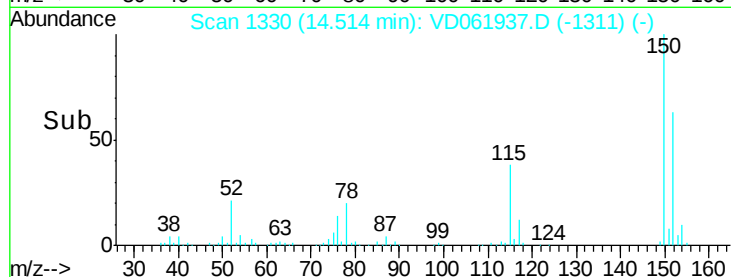
150 158.8 0.0 314.8



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: 77.481 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061937.D

Acq: 22 Apr 2019 14:30

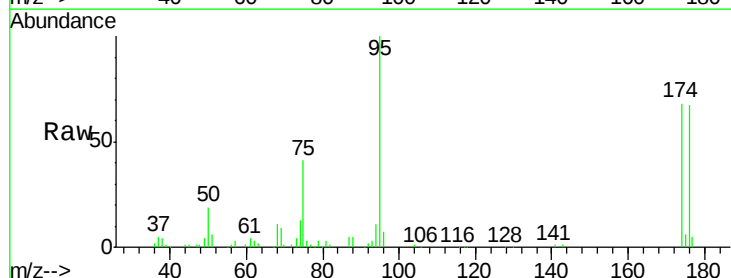
Tgt Ion: 75 Resp: 64405

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

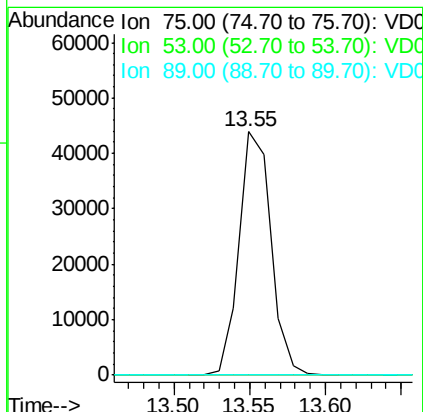
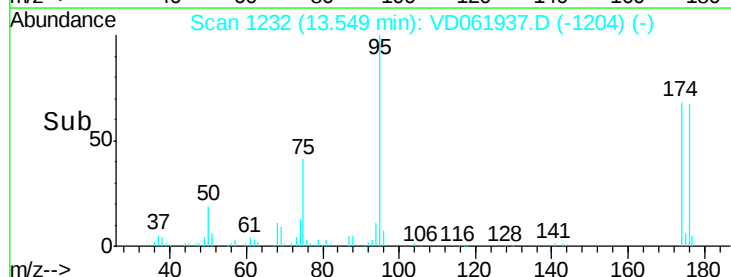
89 0.0 35.0 52.6#

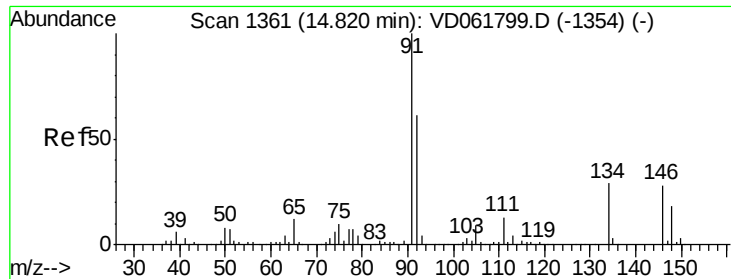


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#89

n-Butylbenzene

Concen: 1.261 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VD061937.D

Acq: 22 Apr 2019 14:30

Instrument :

MSVOA_D

ClientSampleId :

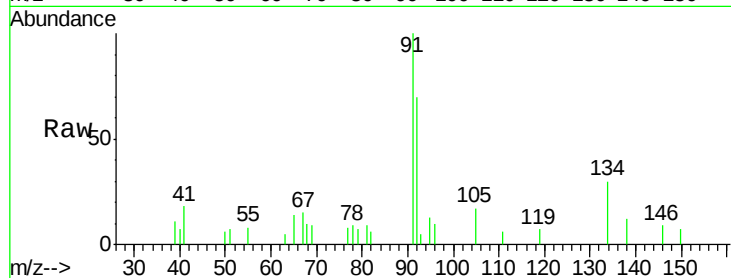
Tot Ion: 91 Resp: 12429

Ion Ratio Lower Upper

91 100

92 70.2 30.3 91.0

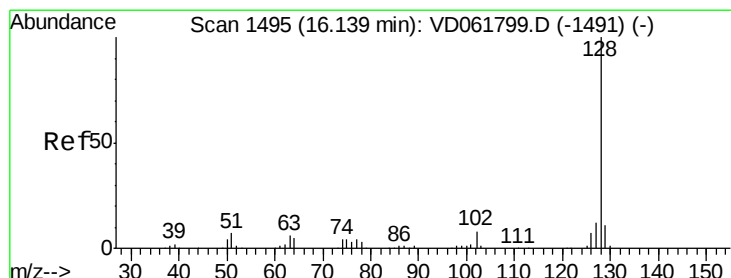
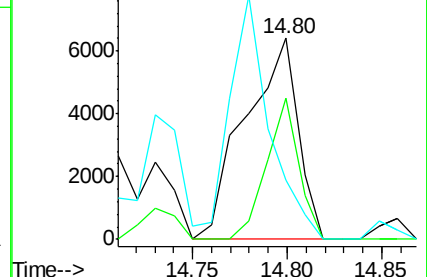
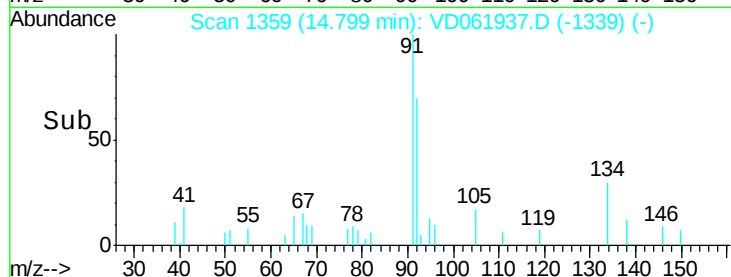
134 29.7 14.5 43.6



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): VDC



#95

Naphthalene

Concen: 1.736 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VD061937.D

Acq: 22 Apr 2019 14:30

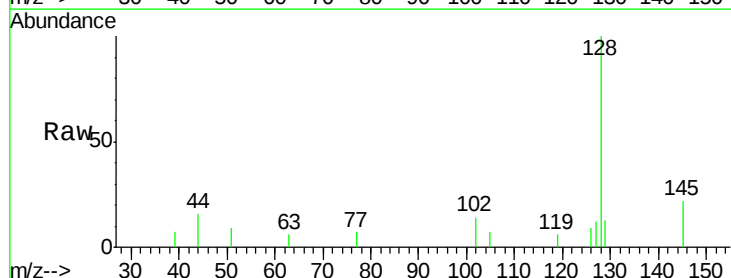
Tgt Ion: 128 Resp: 7500

Ion Ratio Lower Upper

128 100

127 12.2 9.8 14.8

129 12.9 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): VDC

Ion 127.00 (126.70 to 127.70): VDC

Ion 129.00 (128.70 to 129.70): VDC

