

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080319\
 Data File : VD063372.D
 Acq On : 3 Aug 2019 20:06
 Operator : VA/AP
 Sample : K4135-10
 Misc : 5.81g/5ml/MSVOA_D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 1S-A4-(30)

Quant Time: Aug 04 06:09:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	881192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1253585	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	959861	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	471866	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	453472	46.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.76%	
35) Dibromofluoromethane	6.93	113	481504	44.99	ug/l	0.02
Spiked Amount	50.000		Recovery	=	89.98%	
50) Toluene-d8	10.40	98	947383	39.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.10%	
62) 4-Bromofluorobenzene	13.55	95	414108	37.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.88%	

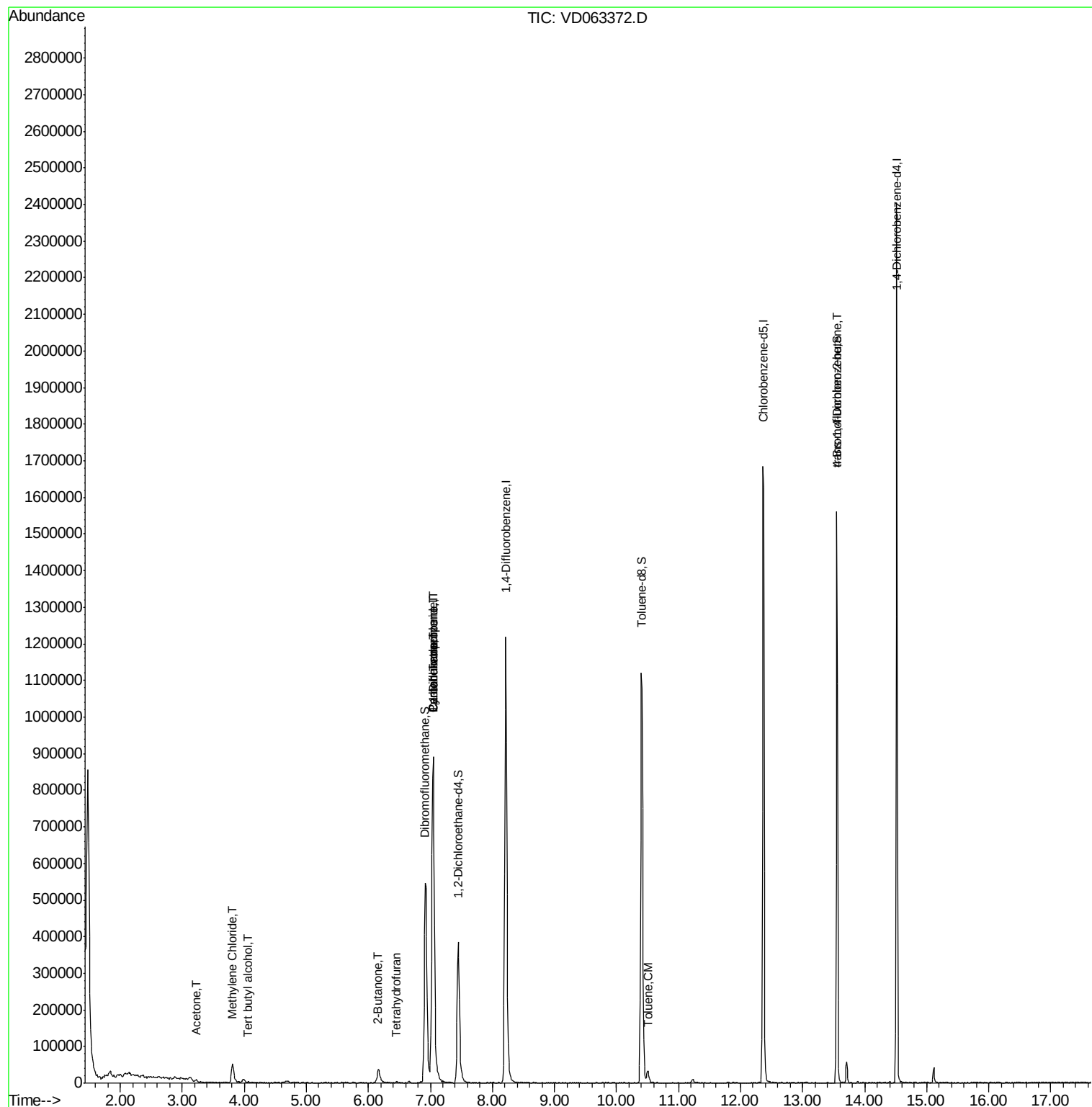
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.05	59	1230	2.867	ug/l #	69
16) Acetone	3.23	43	8782	4.610	ug/l #	62
20) Methylene Chloride	3.82	84	31558	4.098	ug/l	92
25) 2-Butanone	6.16	43	3416	1.787	ug/l #	56
29) Tetrahydrofuran	6.46	42	1575	1.740	ug/l #	50
31) Cyclohexane	7.04	56	22174	2.546	ug/l #	31
36) 1,1-Dichloropropene	7.05	75	68900	6.022	ug/l #	52
38) Carbon Tetrachloride	7.05	117	86800	5.040	ug/l #	15
52) Toluene	10.51	92	16374	1.027	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.55	75	191298	121.551	ug/l #	3

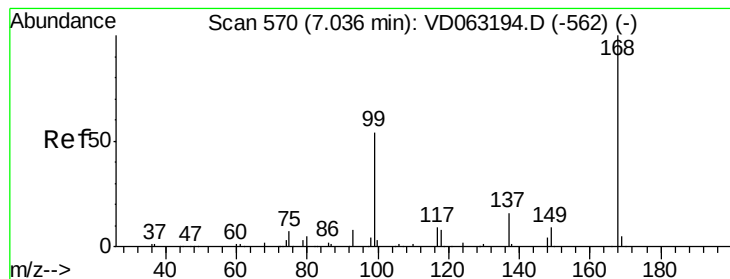
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 30 03:04:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063372.D

Acq: 3 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampleId :

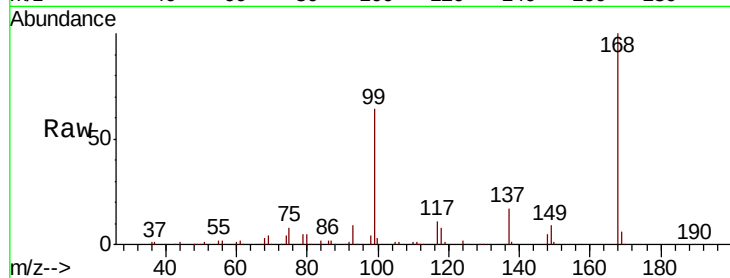
1S-A4-(30)

Tgt Ion:168 Resp: 881192

Ion Ratio Lower Upper

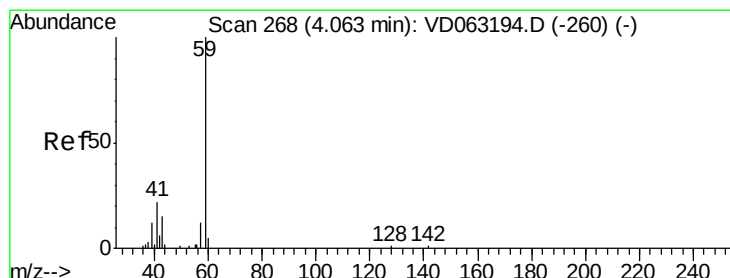
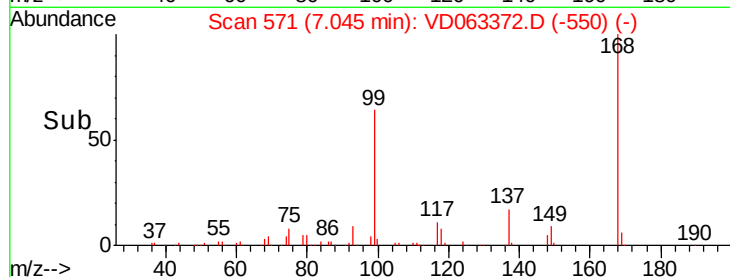
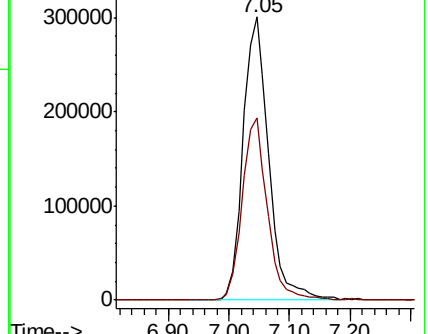
168 100

99 64.4 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 2.867 ug/l

RT: 4.05 min Scan# 267

Delta R.T. -0.01 min

Lab File: VD063372.D

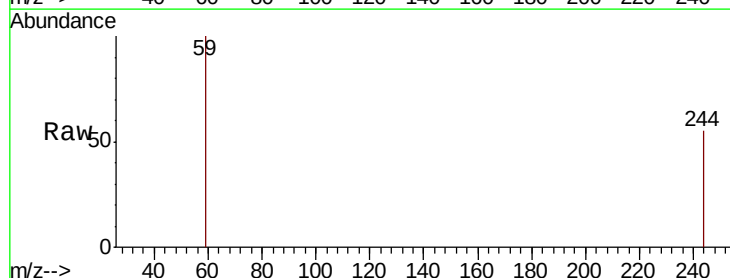
Acq: 3 Aug 2019 20:06

Tgt Ion: 59 Resp: 1230

Ion Ratio Lower Upper

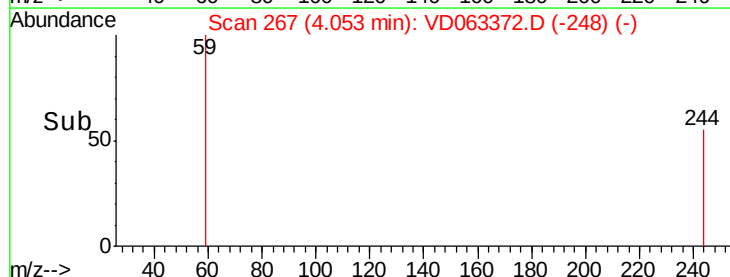
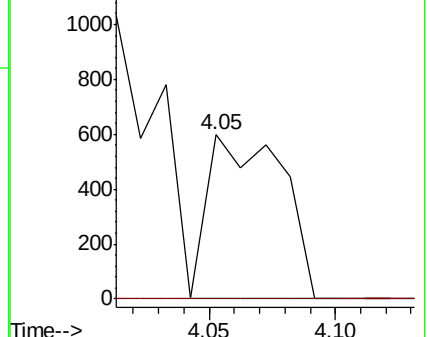
59 100

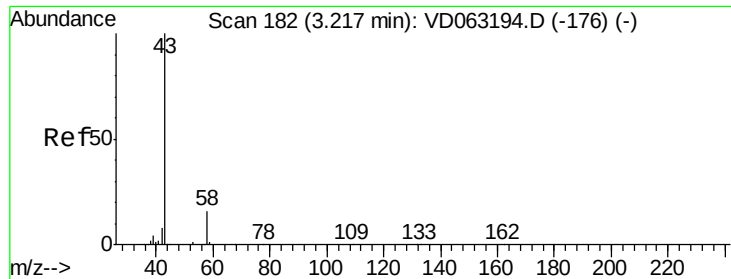
57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 4.610 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063372.D

Acq: 3 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampleId :

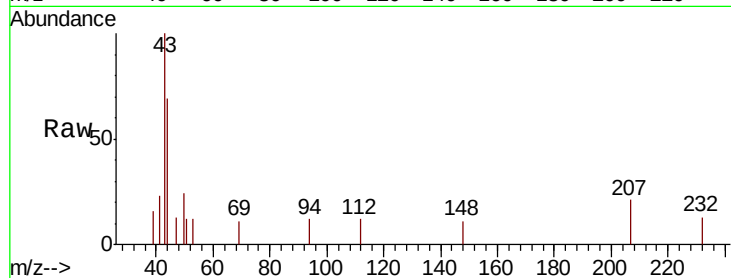
1S-A4-(30)

Tgt Ion: 43 Resp: 8782

Ion Ratio Lower Upper

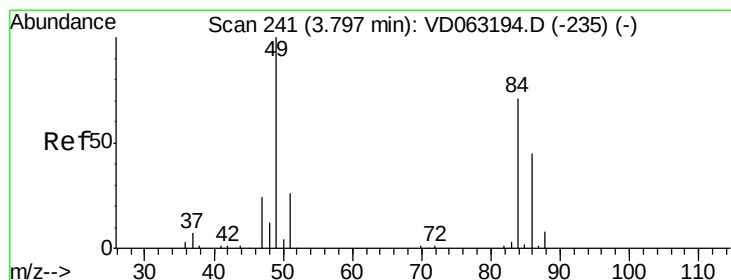
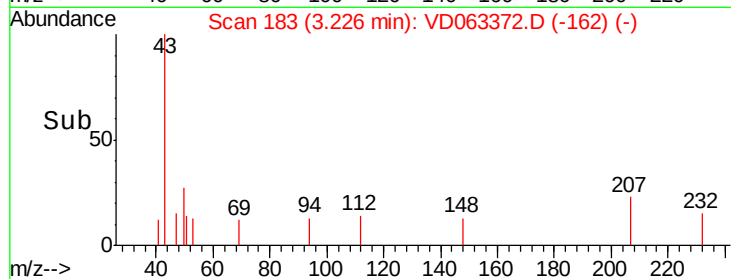
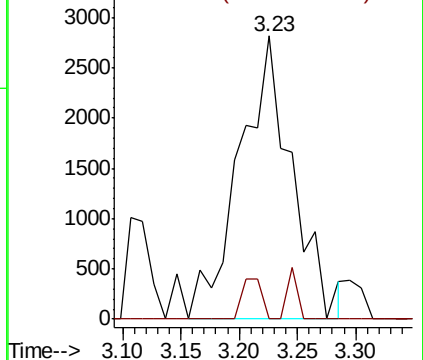
43 100

58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 4.098 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.02 min

Lab File: VD063372.D

Acq: 3 Aug 2019 20:06

Tgt Ion: 84 Resp: 31558

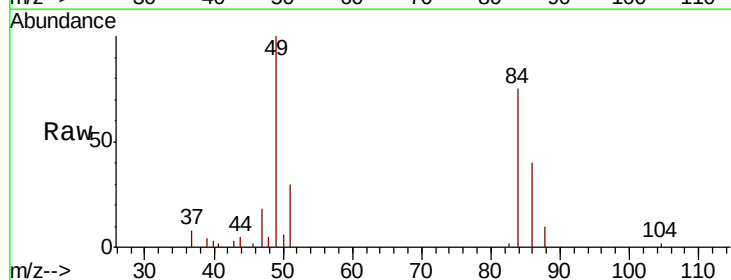
Ion Ratio Lower Upper

84 100

49 133.1 112.5 168.7

51 39.3 29.6 44.4

86 52.7 50.4 75.6

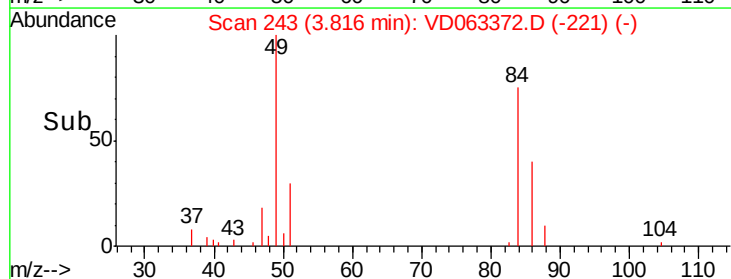
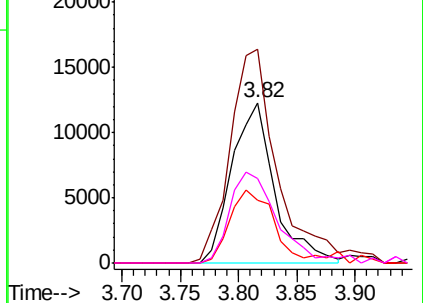


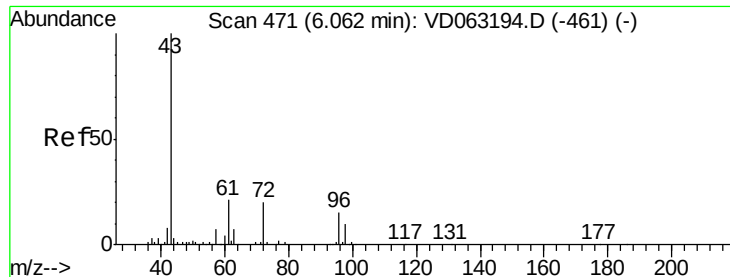
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 1.787 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.10 min

Lab File: VD063372.D

Acq: 3 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampleId :

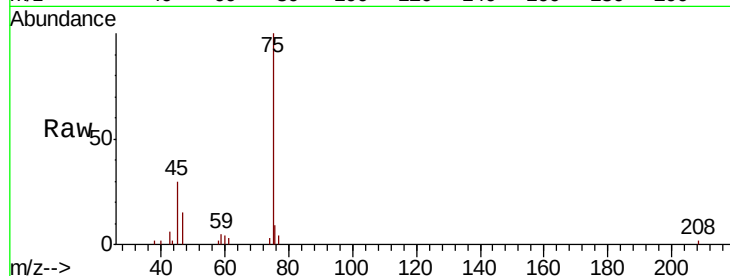
1S-A4-(30)

Tgt Ion: 43 Resp: 3416

Ion Ratio Lower Upper

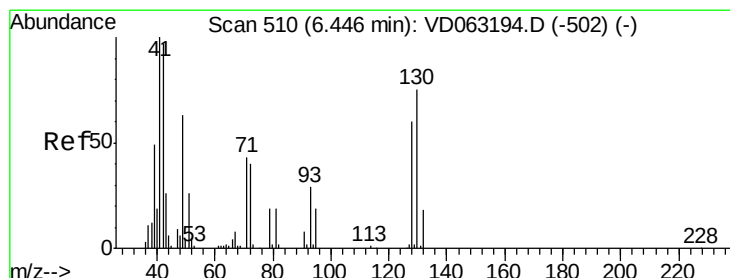
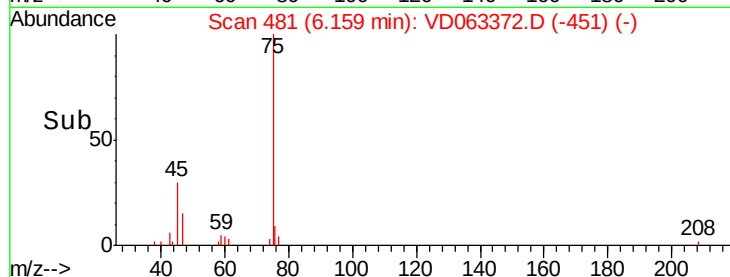
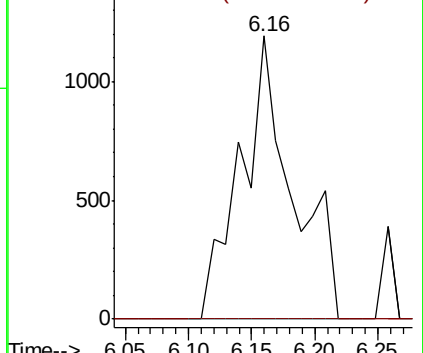
43 100

72 0.0 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.740 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.02 min

Lab File: VD063372.D

Acq: 3 Aug 2019 20:06

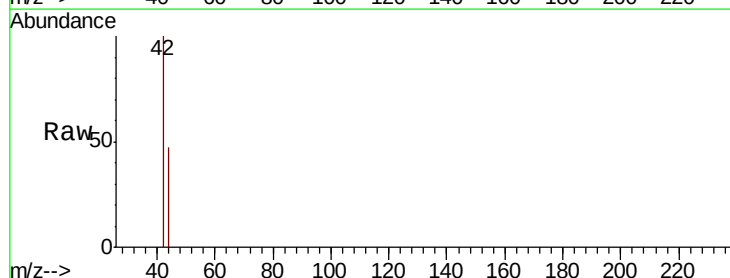
Tgt Ion: 42 Resp: 1575

Ion Ratio Lower Upper

42 100

72 22.5 33.4 50.2#

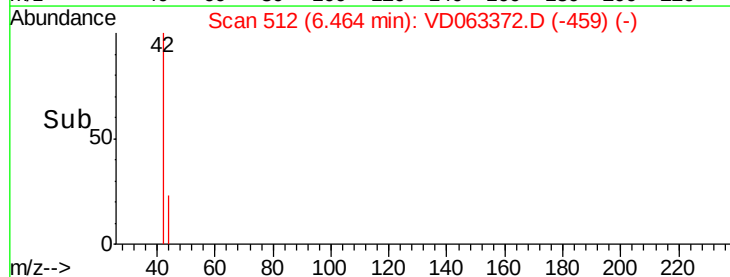
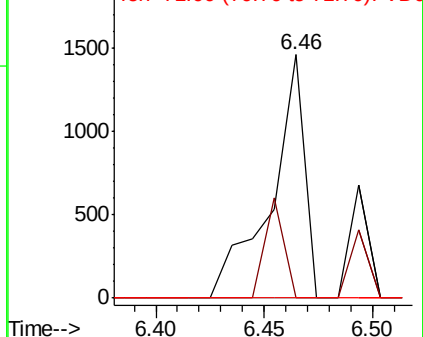
71 0.0 35.7 53.5#

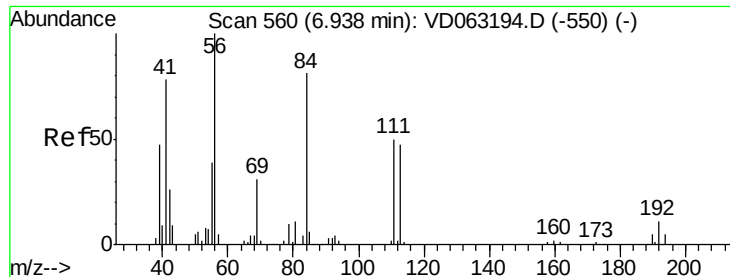


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

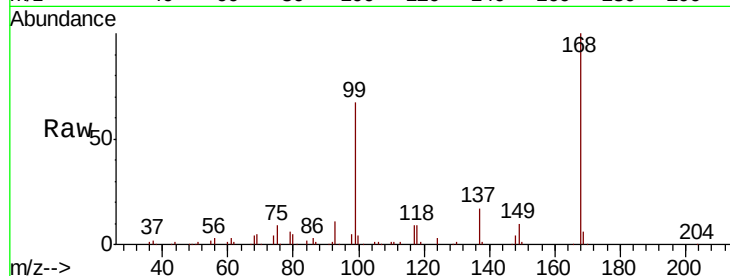




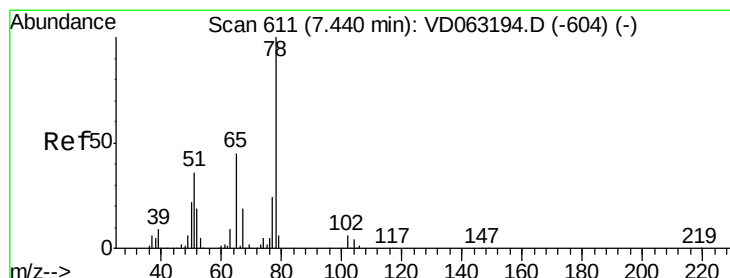
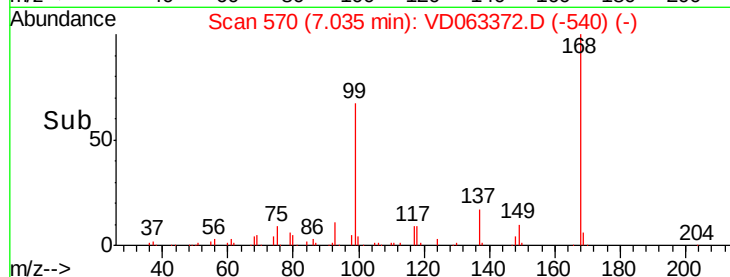
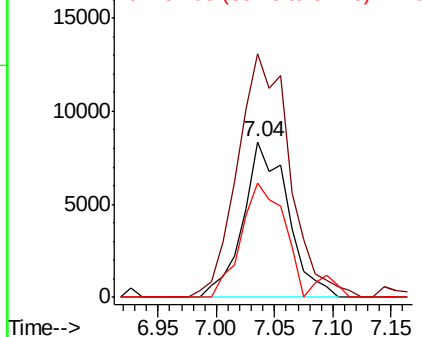
#31
Cyclohexane
Concen: 2.546 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.10 min
Lab File: VD063372.D
Acq: 3 Aug 2019 20:06

Instrument :
MSVOA_D
ClientSampleId :
1S-A4-(30)

Tgt Ion: 56 Resp: 22174
Ion Ratio Lower Upper
56 100
69 156.5 24.5 36.7#
84 73.7 64.9 97.3

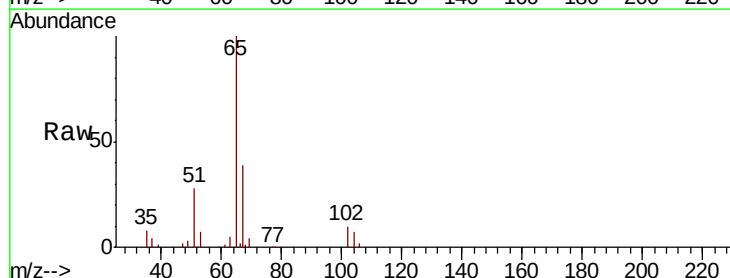


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

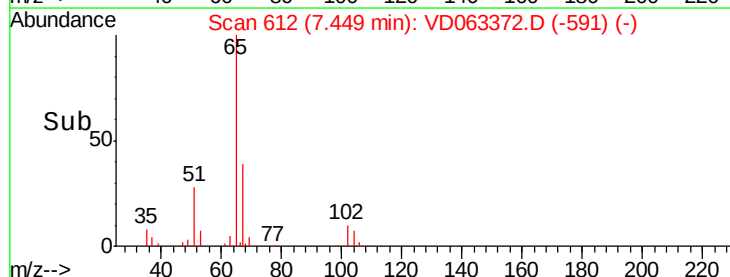
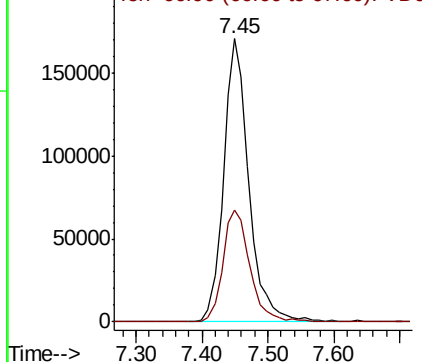


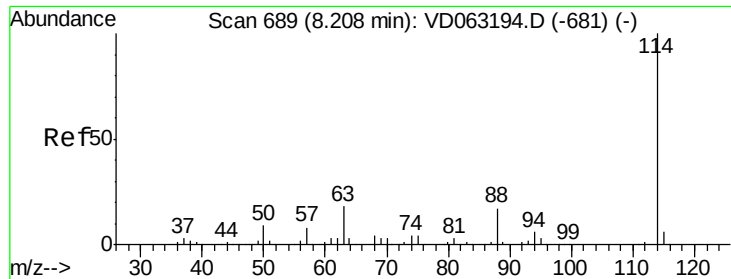
#33
1,2-Dichloroethane-d4
Concen: 46.378 ug/l
RT: 7.45 min Scan# 612
Delta R.T. 0.01 min
Lab File: VD063372.D
Acq: 3 Aug 2019 20:06

Tgt Ion: 65 Resp: 453472
Ion Ratio Lower Upper
65 100
67 39.5 0.0 85.8



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

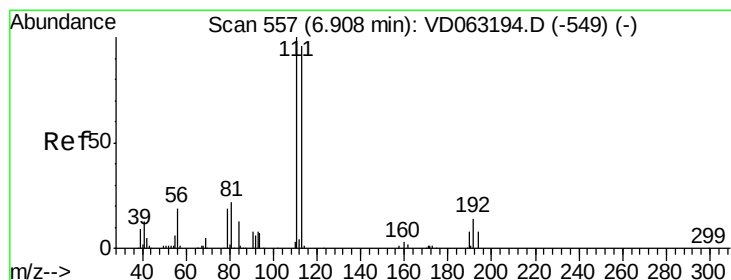
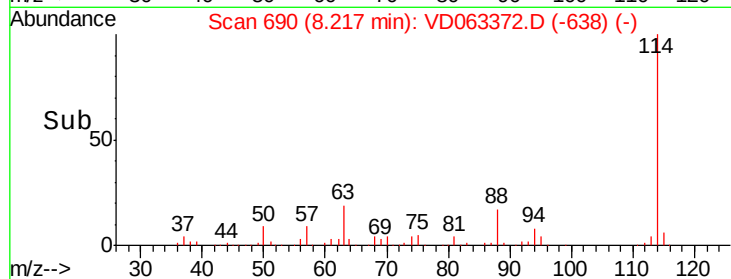
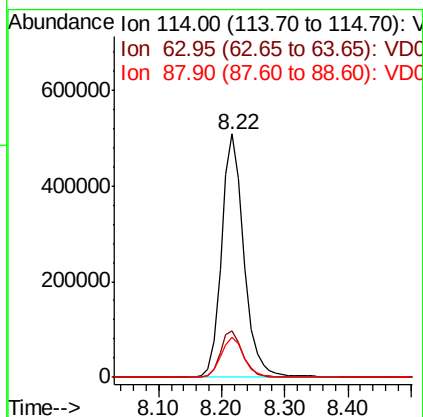
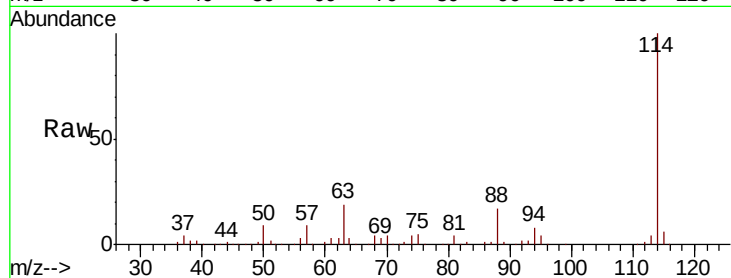




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063372.D
 Acq: 3 Aug 2019 20:06

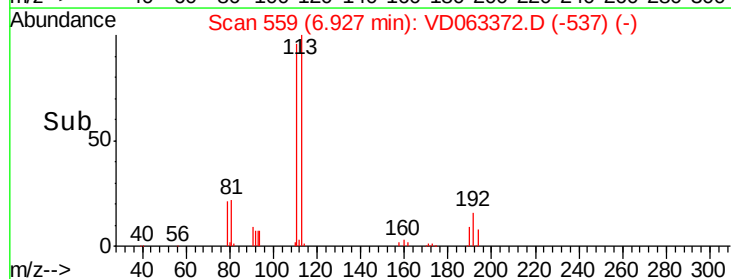
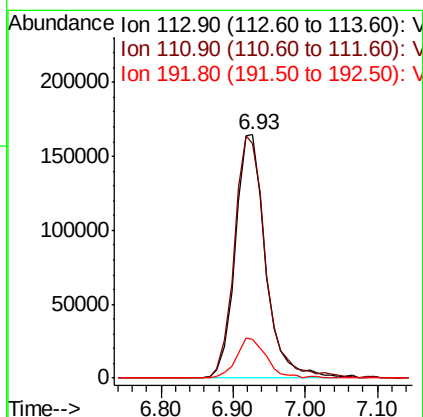
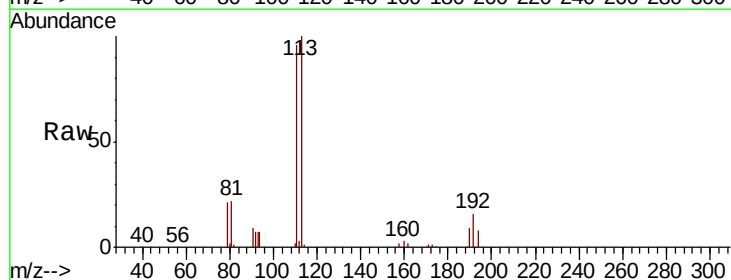
Instrument :
 MSVOA_D
 ClientSampleId :
 1S-A4-(30)

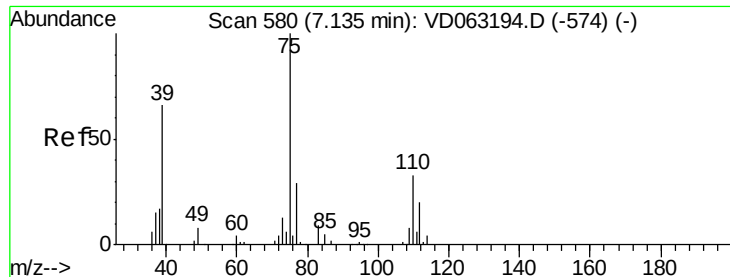
Tgt Ion:114 Resp: 1253585
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 35.2
 88 16.7 0.0 34.6



#35
 Dibromofluoromethane
 Concen: 44.988 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.02 min
 Lab File: VD063372.D
 Acq: 3 Aug 2019 20:06

Tgt Ion:113 Resp: 481504
 Ion Ratio Lower Upper
 113 100
 111 96.2 83.2 124.8
 192 16.1 11.8 17.8





#36

1,1-Dichloropropene

Concen: 6.022 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.09 min

Lab File: VD063372.D

Acq: 3 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampleId :

1S-A4-(30)

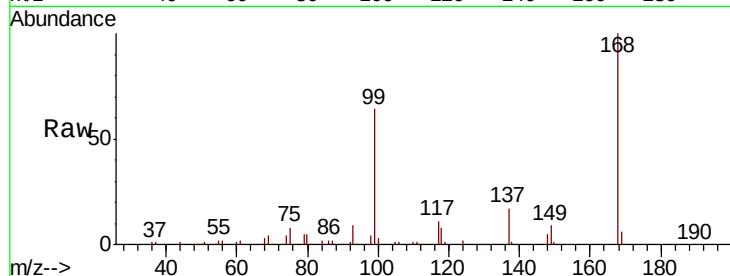
Tgt Ion: 75 Resp: 68900

Ion Ratio Lower Upper

75 100

110 7.9 16.1 48.2#

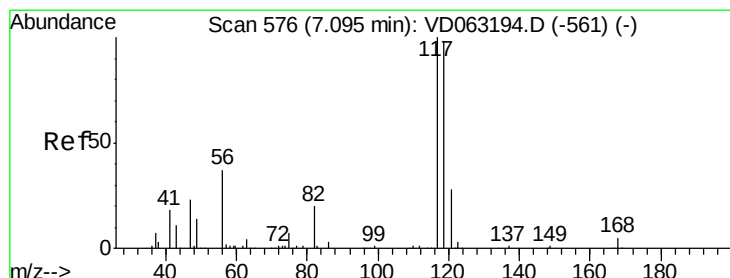
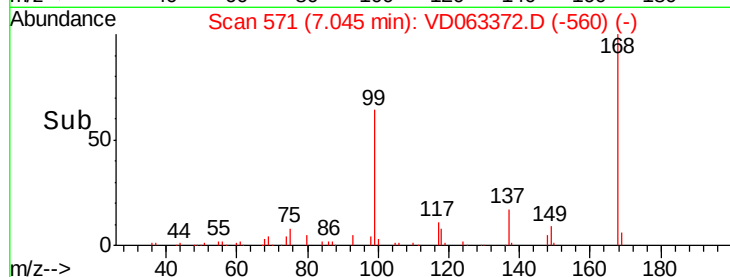
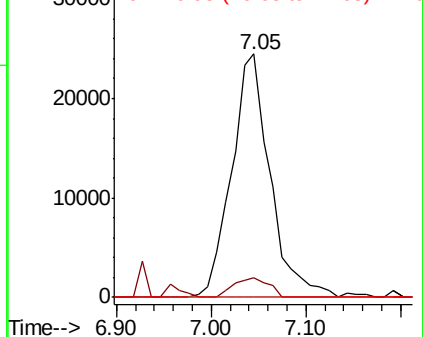
77 0.0 22.7 34.1#



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: 5.040 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.05 min

Lab File: VD063372.D

Acq: 3 Aug 2019 20:06

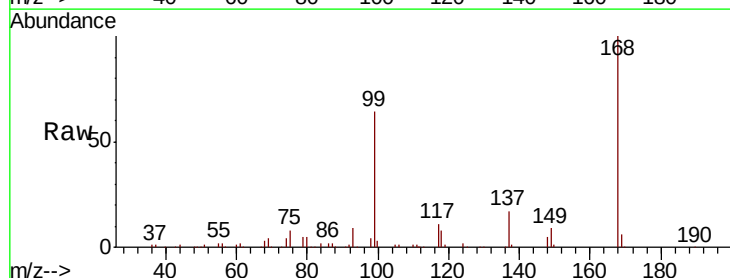
Tgt Ion: 117 Resp: 86800

Ion Ratio Lower Upper

117 100

119 5.2 78.2 117.2#

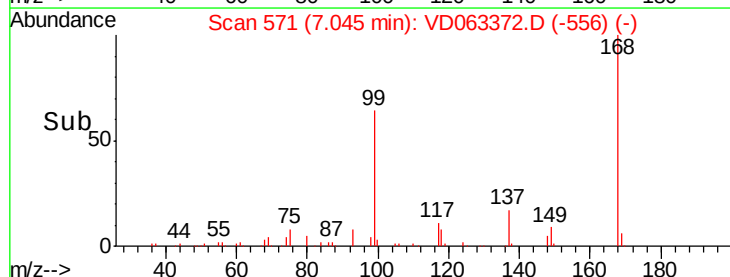
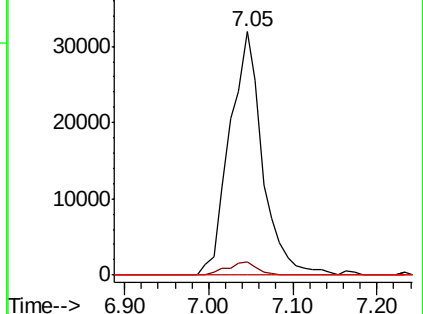
121 0.0 22.1 33.1#

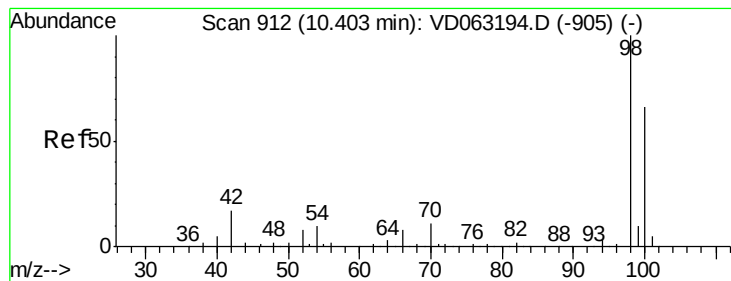


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: 39.552 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.00 min

Lab File: VD063372.D

Acq: 3 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampleId :

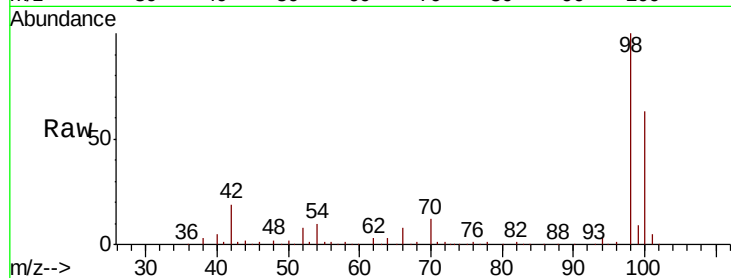
1S-A4-(30)

Tgt Ion: 98 Resp: 947383

Ion Ratio Lower Upper

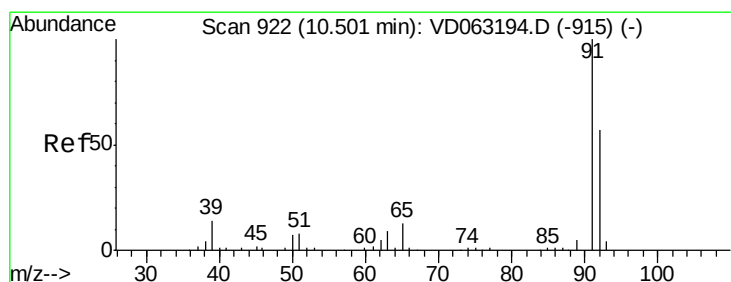
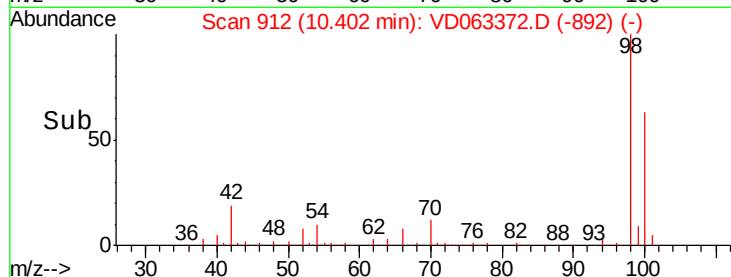
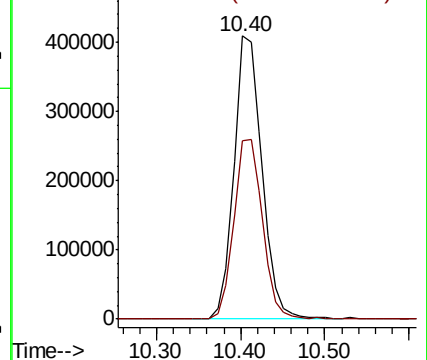
98 100

100 63.2 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#52

Toluene

Concen: 1.027 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.01 min

Lab File: VD063372.D

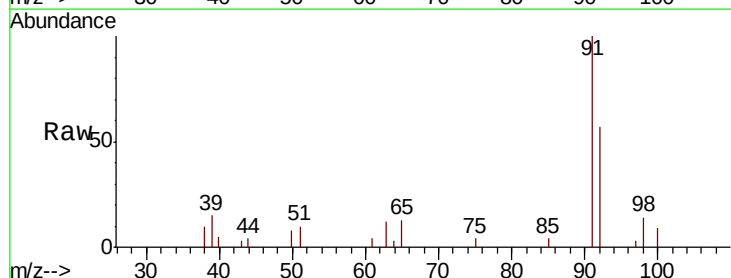
Acq: 3 Aug 2019 20:06

Tgt Ion: 92 Resp: 16374

Ion Ratio Lower Upper

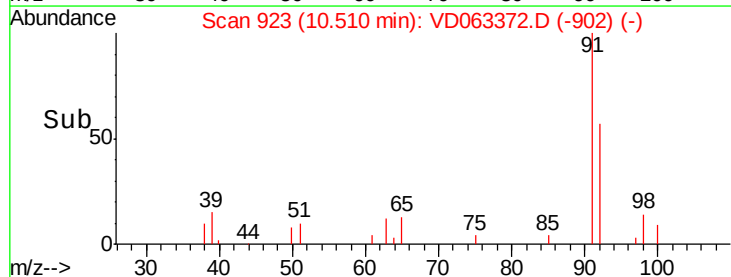
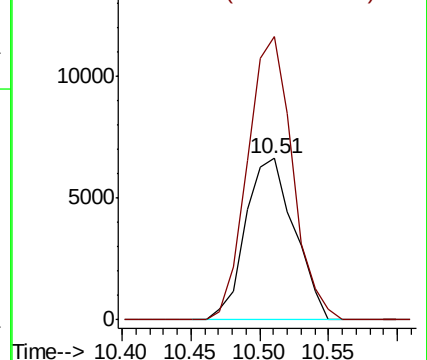
92 100

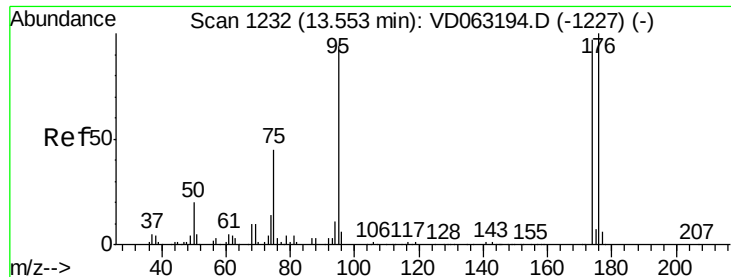
91 175.2 140.8 211.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: 37.938 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063372.D

Acq: 3 Aug 2019 20:06

Instrument :

MSVOA_D

ClientSampleId :

1S-A4-(30)

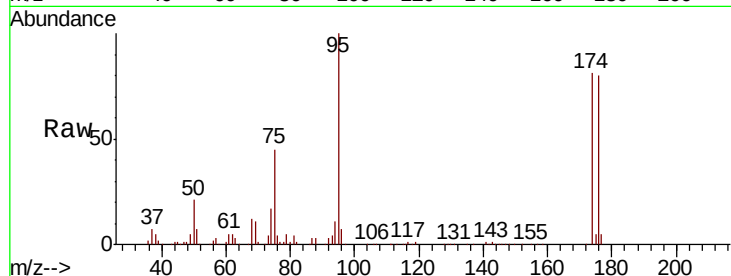
Tgt Ion: 95 Resp: 414108

Ion Ratio Lower Upper

95 100

174 81.0 0.0 205.4

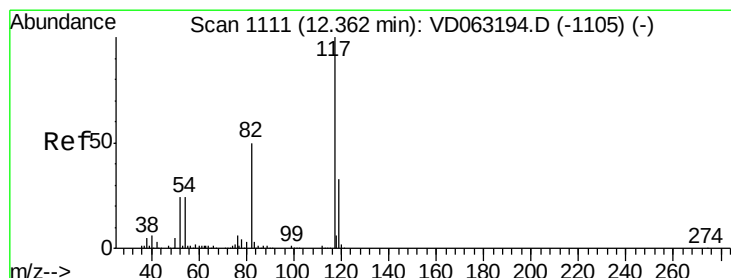
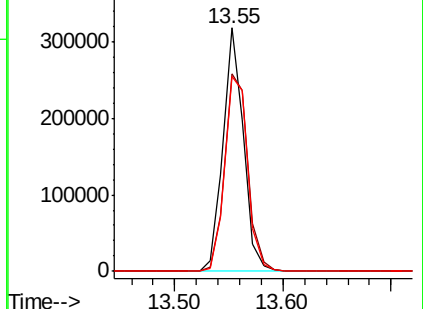
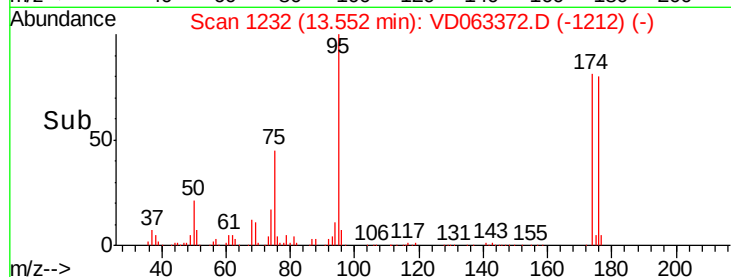
176 80.2 0.0 211.8



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: 12.37 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD063372.D

Acq: 3 Aug 2019 20:06

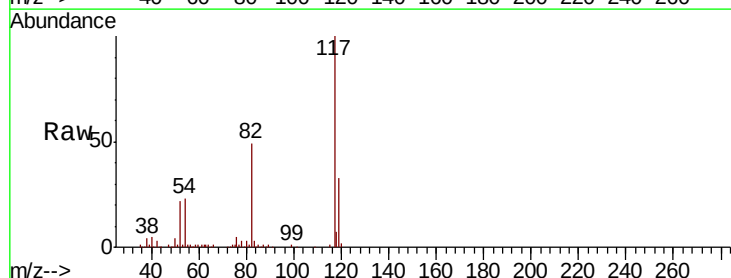
Tgt Ion: 117 Resp: 959861

Ion Ratio Lower Upper

117 100

82 48.7 40.1 60.1

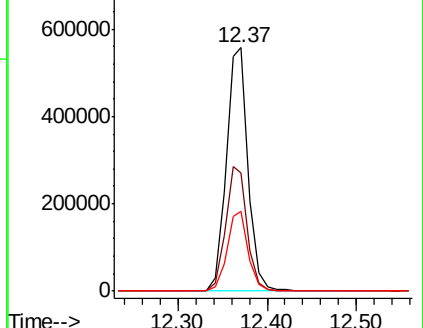
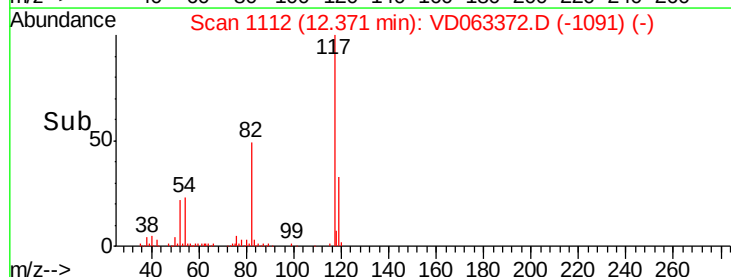
119 32.8 26.5 39.7

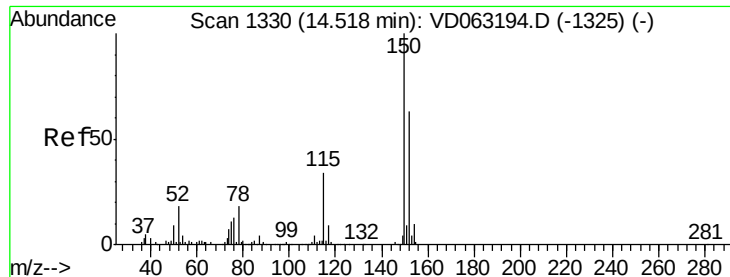


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

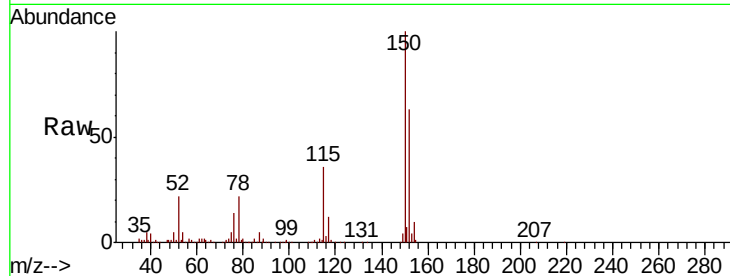




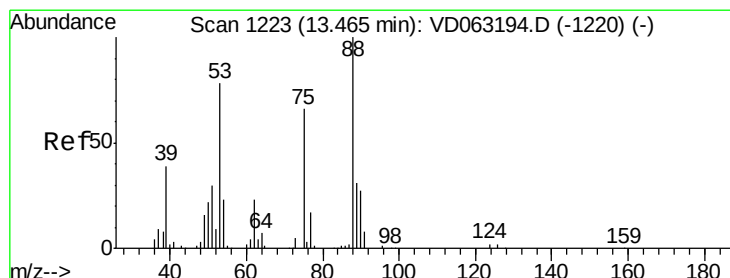
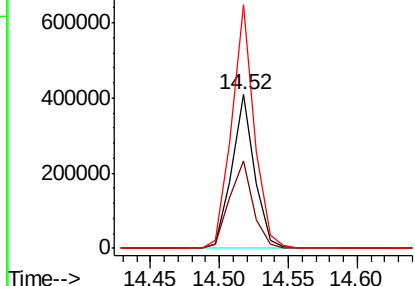
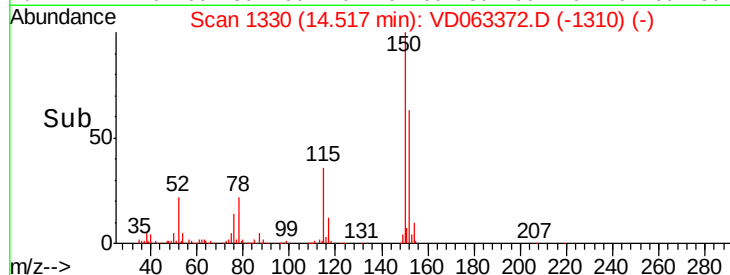
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. -0.00 min
 Lab File: VD063372.D
 Acq: 3 Aug 2019 20:06

Instrument :
 MSVOA_D
 ClientSampleId :
 1S-A4-(30)

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.6	27.5	82.4
150	158.4	0.0	320.6

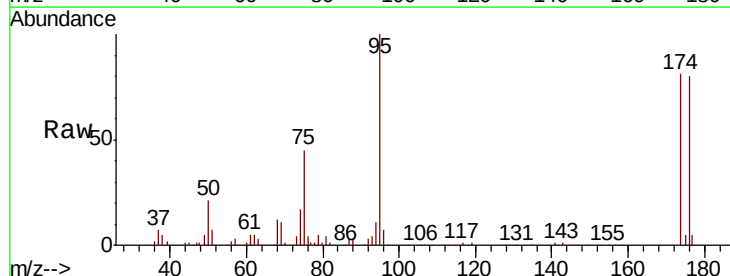


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V



#81
 trans-1,4-Dichloro-2-butene
 Concen: 121.551 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.09 min
 Lab File: VD063372.D
 Acq: 3 Aug 2019 20:06

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	94.9	142.3#
89	0.0	37.4	56.0#



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

