

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080319\
 Data File : VD063362.D
 Acq On : 3 Aug 2019 15:35
 Operator : VA/AP
 Sample : K4136-08
 Misc : 4.75g/5ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 1S-C2-(30)

Quant Time: Aug 04 06:07:46 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	7.04	168	888773	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1241642	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	890368	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	372329	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	449963	45.63	ug/l	0.00
Spiked Amount			Recovery	=	91.26%	
35) Dibromofluoromethane	6.93	113	515963	48.67	ug/l	0.02
Spiked Amount			Recovery	=	97.34%	
50) Toluene-d8	10.41	98	992919	41.85	ug/l	0.00
Spiked Amount			Recovery	=	83.70%	
62) 4-Bromofluorobenzene	13.55	95	398040	36.82	ug/l	0.00
Spiked Amount			Recovery	=	73.64%	

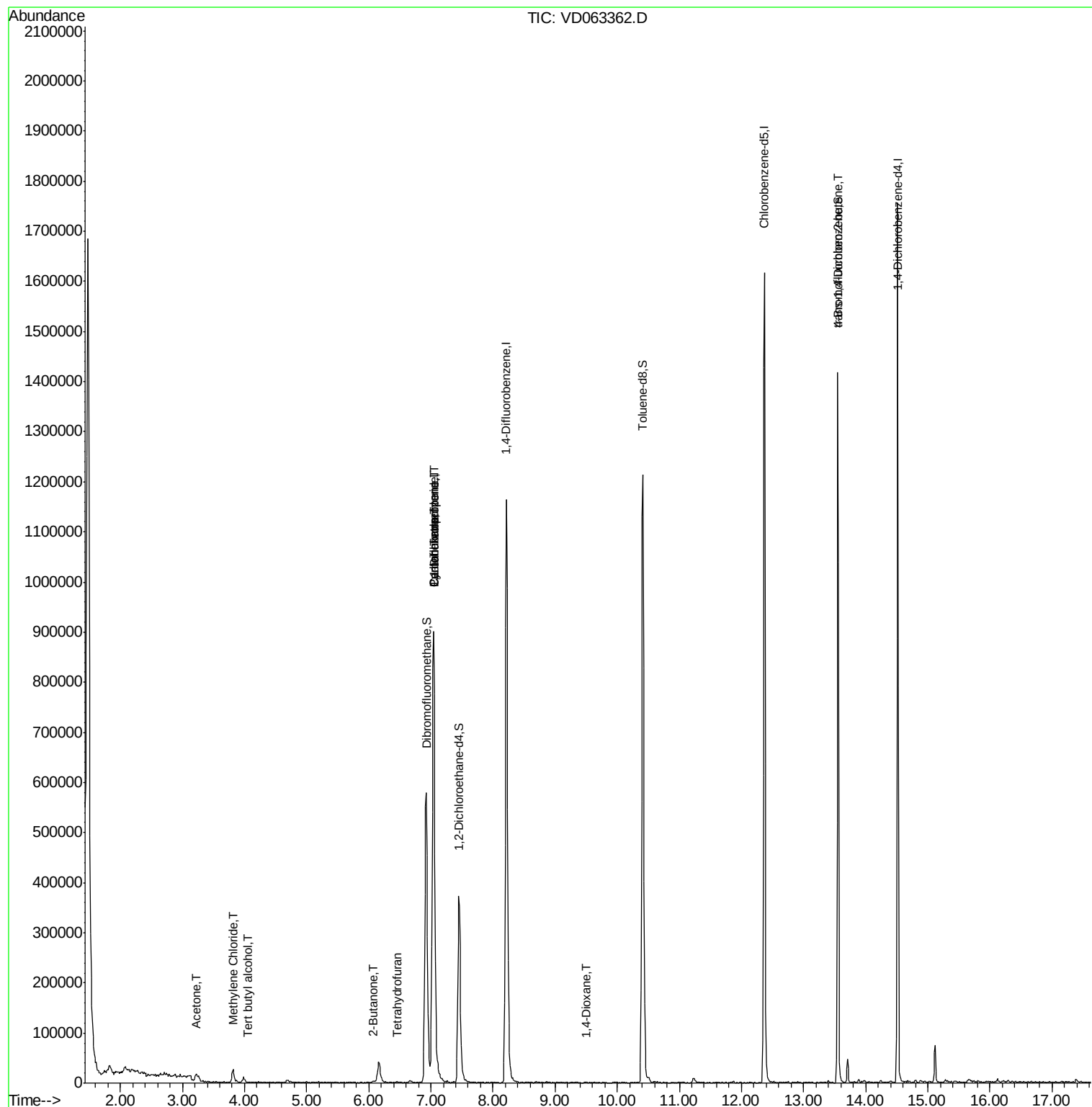
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.06	59	1189	2.747	ug/l #	69
16) Acetone	3.23	43	29603	15.407	ug/l	93
20) Methylene Chloride	3.81	84	15107	1.945	ug/l #	79
25) 2-Butanone	6.07	43	6119	3.173	ug/l #	56
29) Tetrahydrofuran	6.45	42	967	1.059	ug/l #	50
31) Cyclohexane	7.04	56	17736	2.019	ug/l #	12
36) 1,1-Dichloropropene	7.04	75	70850	6.252	ug/l #	56
38) Carbon Tetrachloride	7.04	117	82119	4.814	ug/l #	15
49) 1,4-Dioxane	9.52	88	205	1.628	ug/l #	22
81) trans-1,4-Dichloro-2-buten	13.55	75	179972	144.925	ug/l #	3

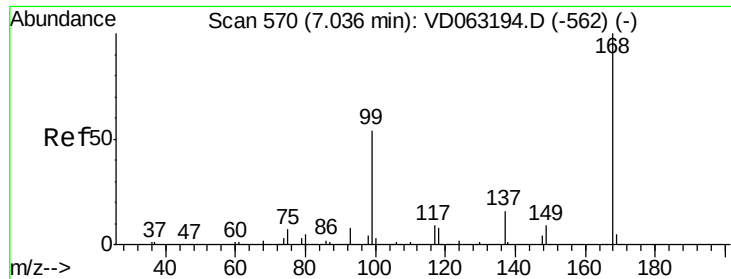
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 04 06:07:46 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 30 03:04:50 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: VD063362.D

Acq: 3 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

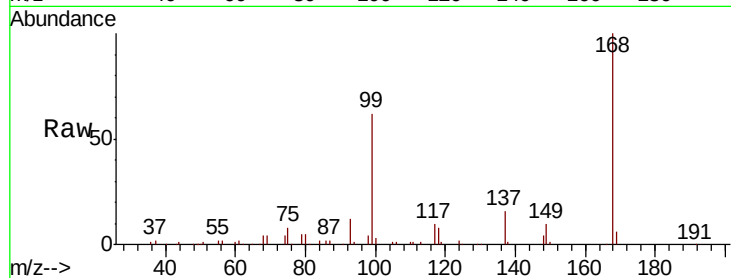
1S-C2-(30)

Tgt Ion:168 Resp: 888773

Ion Ratio Lower Upper

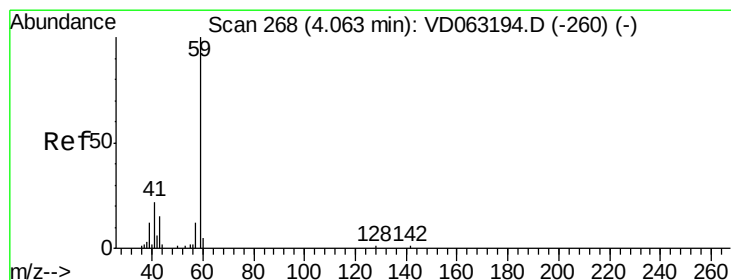
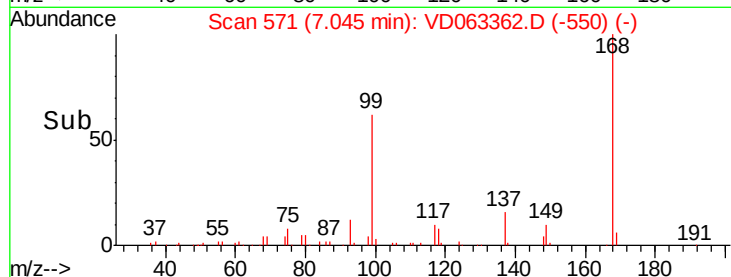
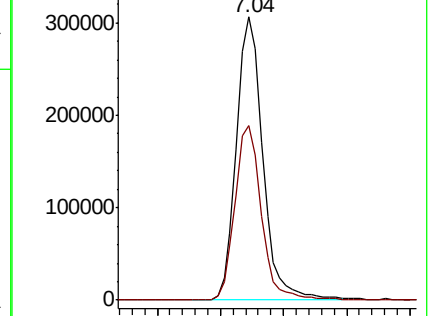
168 100

99 61.7 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: 2.747 ug/l

RT: 4.06 min Scan# 268

Delta R.T. -0.00 min

Lab File: VD063362.D

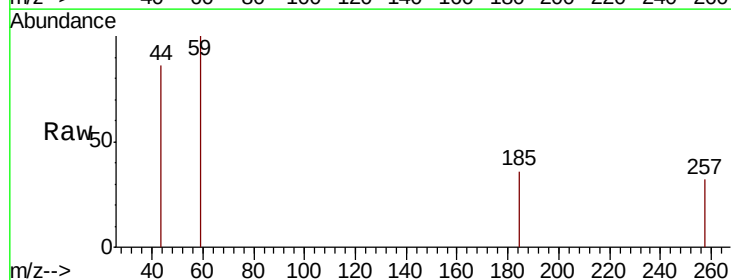
Acq: 3 Aug 2019 15:35

Tgt Ion: 59 Resp: 1189

Ion Ratio Lower Upper

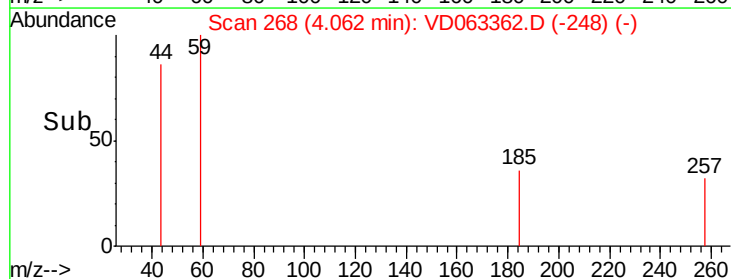
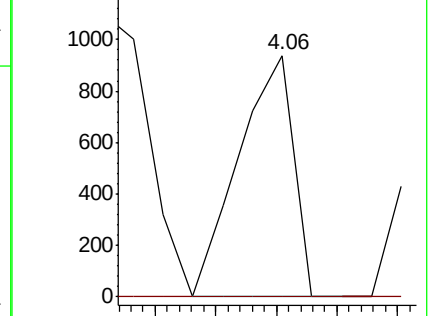
59 100

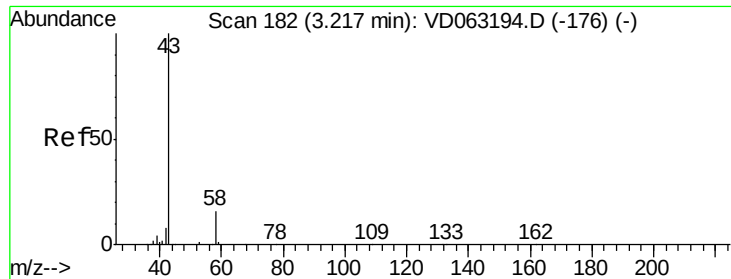
57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 15.407 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063362.D

Acq: 3 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

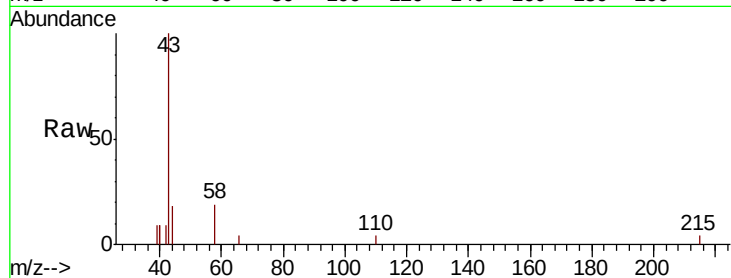
1S-C2-(30)

Tgt Ion: 43 Resp: 29603

Ion Ratio Lower Upper

43 100

58 19.0 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

12000

10000

8000

6000

4000

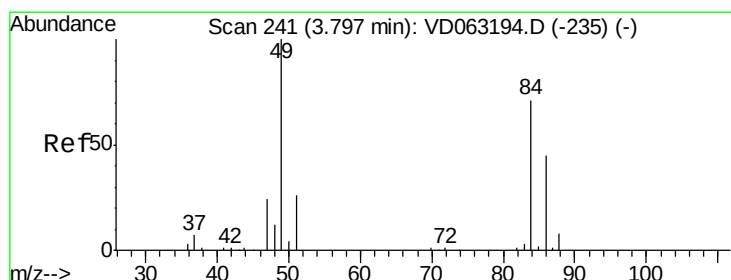
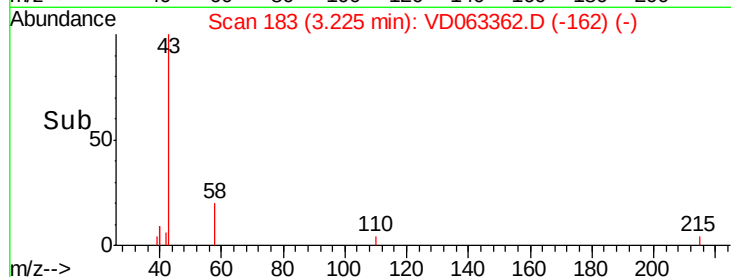
2000

0

Time-->

3.10 3.15 3.20 3.25 3.30

3.23



#20

Methylene Chloride

Concen: 1.945 ug/l

RT: 3.81 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD063362.D

Acq: 3 Aug 2019 15:35

Tgt Ion: 84 Resp: 15107

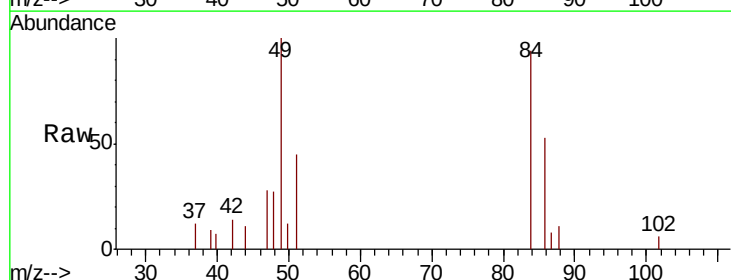
Ion Ratio Lower Upper

84 100

49 106.9 112.5 168.7#

51 48.2 29.6 44.4#

86 56.1 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

12000

10000

8000

6000

4000

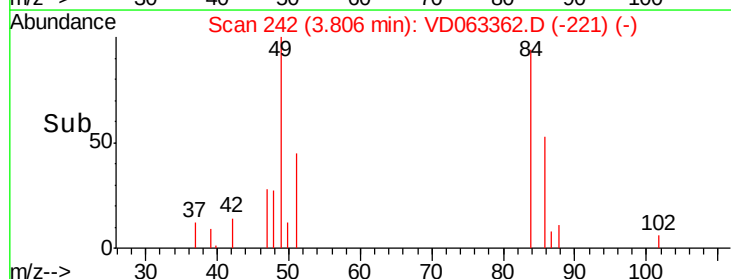
2000

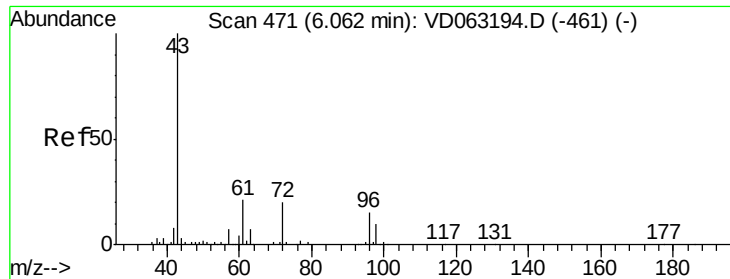
0

Time-->

3.75 3.80 3.85 3.90

3.81





#25

2-Butanone

Concen: 3.173 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.01 min

Lab File: VD063362.D

Acq: 3 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

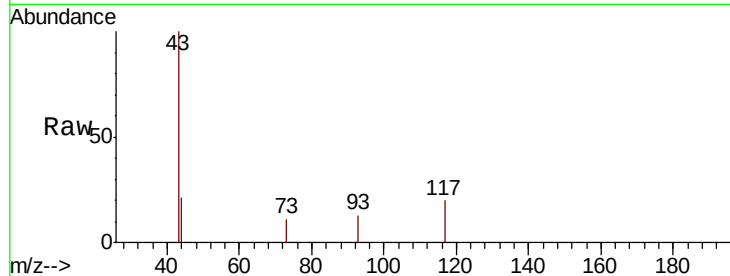
1S-C2-(30)

Tgt Ion: 43 Resp: 6119

Ion Ratio Lower Upper

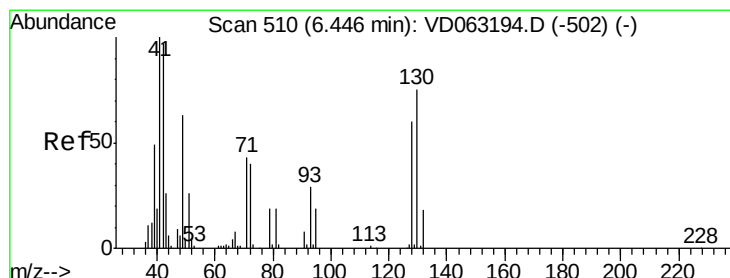
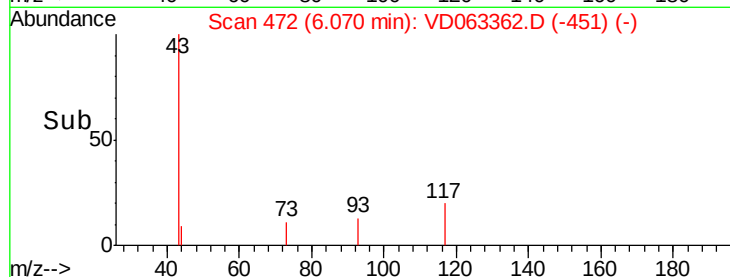
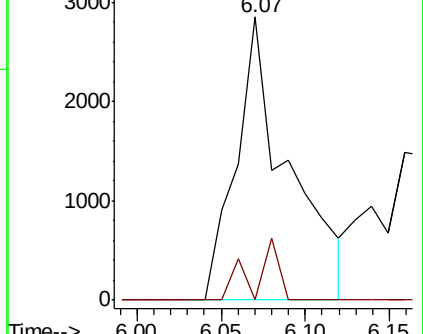
43 100

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: 1.059 ug/l

RT: 6.45 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD063362.D

Acq: 3 Aug 2019 15:35

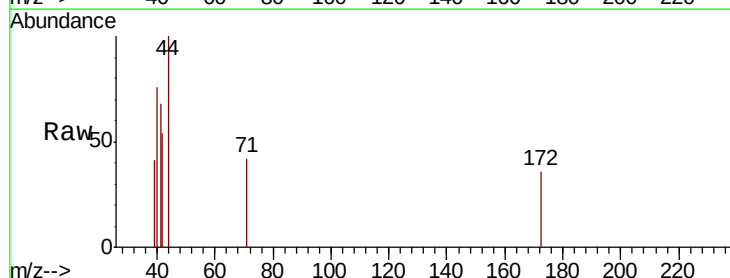
Tgt Ion: 42 Resp: 967

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.2#

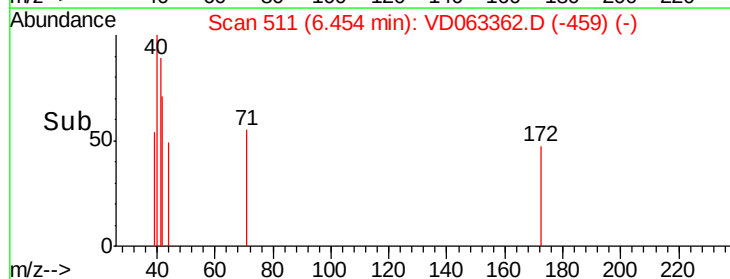
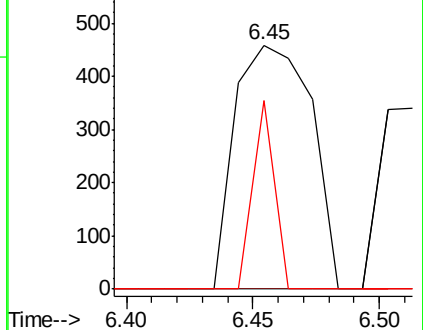
71 21.6 35.7 53.5#

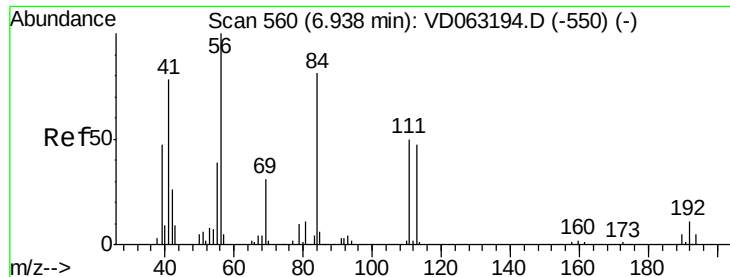


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

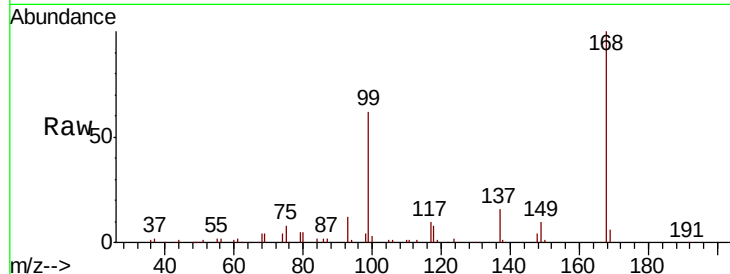




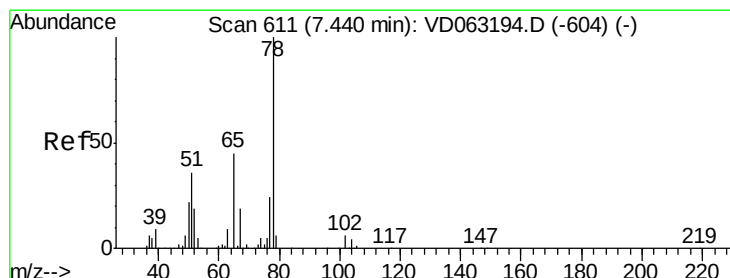
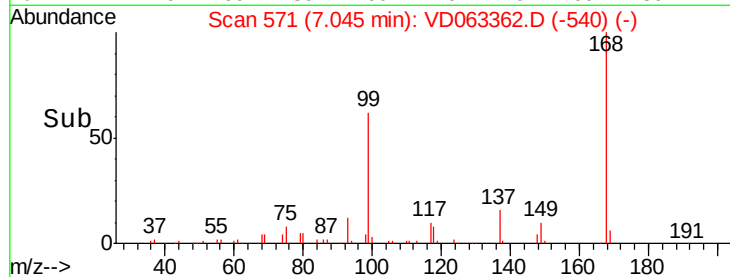
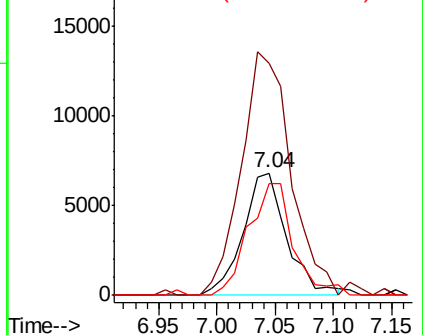
#31
Cyclohexane
Concen: 2.019 ug/l
RT: 7.04 min Scan# 571
Delta R.T. 0.11 min
Lab File: VD063362.D
Acq: 3 Aug 2019 15:35

Instrument :
MSVOA_D
ClientSampleId :
1S-C2-(30)

Tgt Ion: 56 Resp: 17736
Ion Ratio Lower Upper
56 100
69 189.6 24.5 36.7#
84 91.6 64.9 97.3

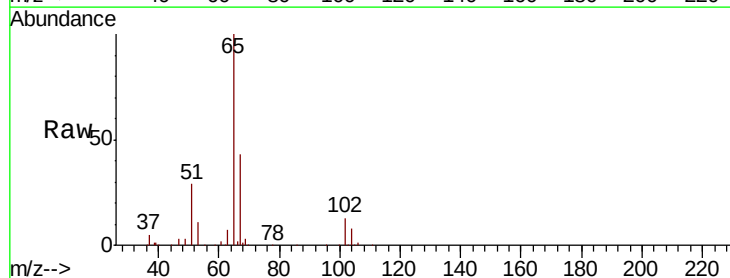


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

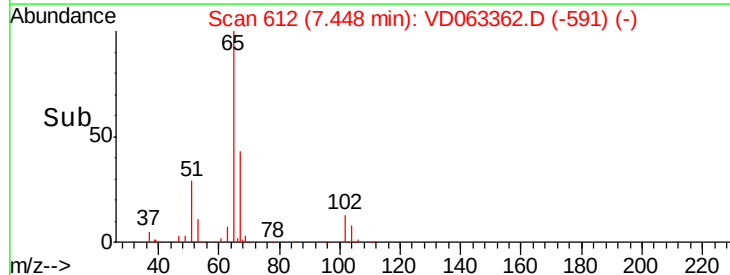
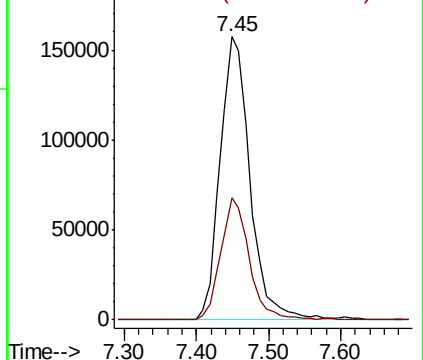


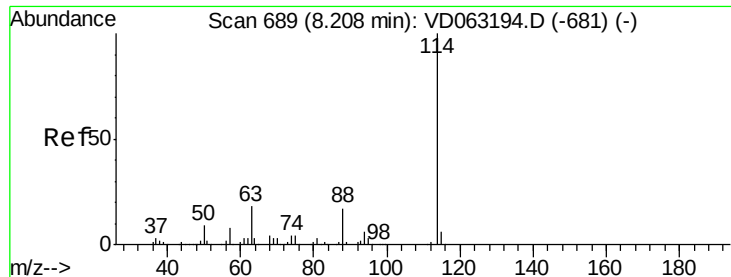
#33
1,2-Dichloroethane-d4
Concen: 45.627 ug/l
RT: 7.45 min Scan# 612
Delta R.T. 0.01 min
Lab File: VD063362.D
Acq: 3 Aug 2019 15:35

Tgt Ion: 65 Resp: 449963
Ion Ratio Lower Upper
65 100
67 43.0 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: VD063362.D

Acq: 3 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

1S-C2-(30)

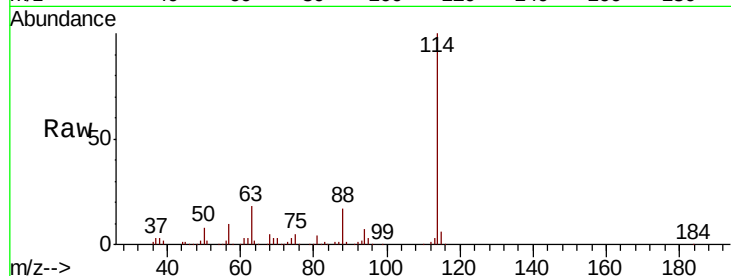
Tgt Ion:114 Resp: 1241642

Ion Ratio Lower Upper

114 100

63 18.5 0.0 35.2

88 16.6 0.0 34.6



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

600000

400000

200000

0

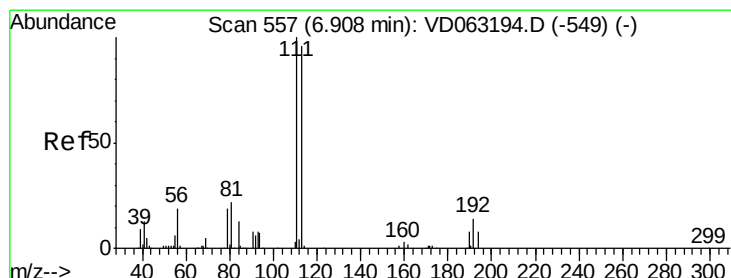
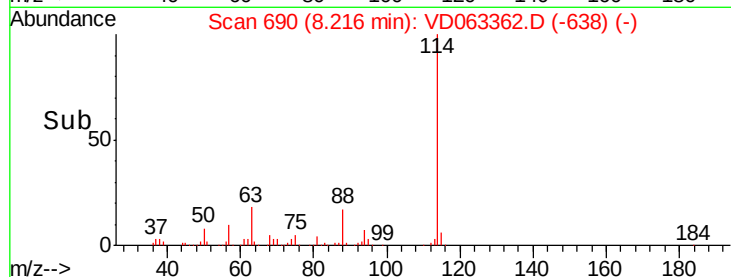
8.22

8.00

8.20

8.40

Time-->



#35

Dibromofluoromethane

Concen: 48.671 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.02 min

Lab File: VD063362.D

Acq: 3 Aug 2019 15:35

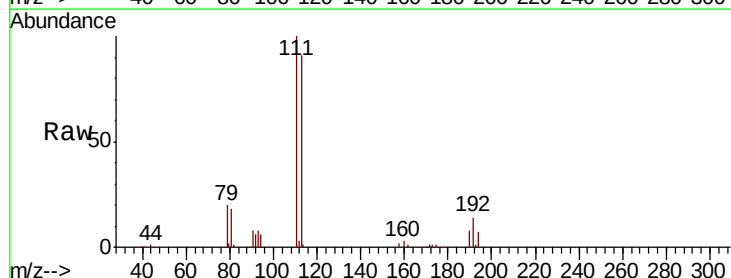
Tgt Ion:113 Resp: 515963

Ion Ratio Lower Upper

113 100

111 109.9 83.2 124.8

192 15.9 11.8 17.8



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

250000

200000

150000

100000

50000

0

6.93

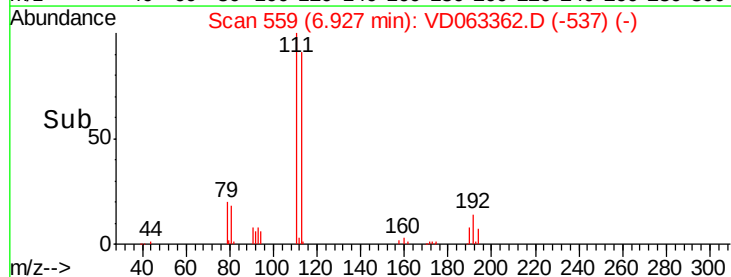
6.80

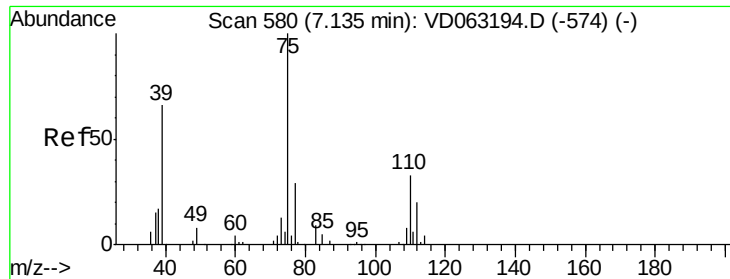
6.90

7.00

7.10

Time-->

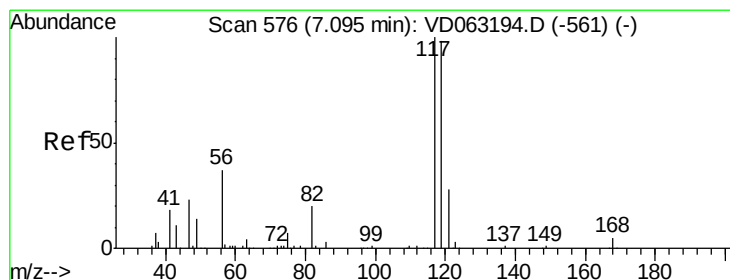
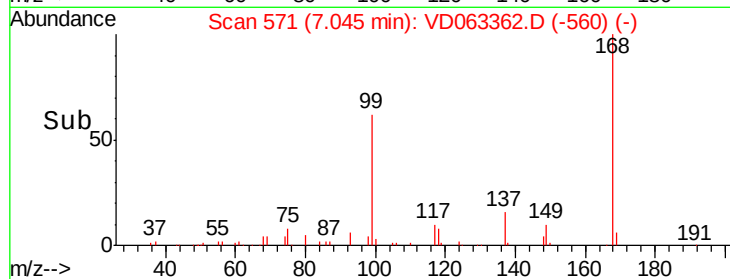
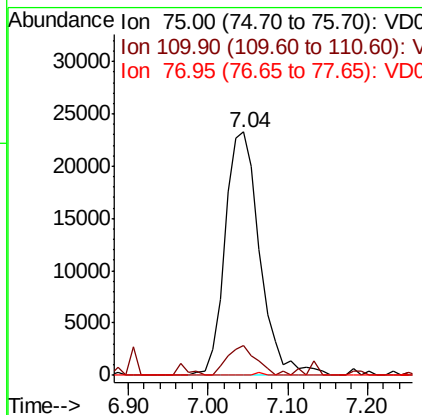
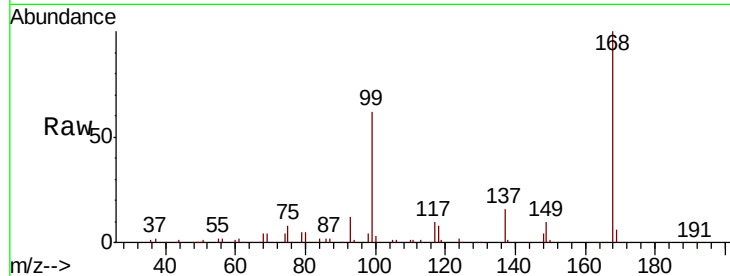




#36
 1,1-Dichloropropene
 Concen: 6.252 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.09 min
 Lab File: VD063362.D
 Acq: 3 Aug 2019 15:35

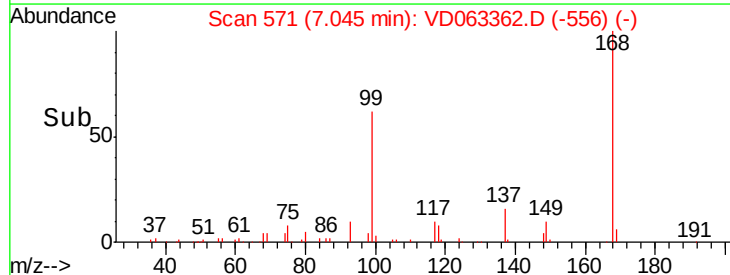
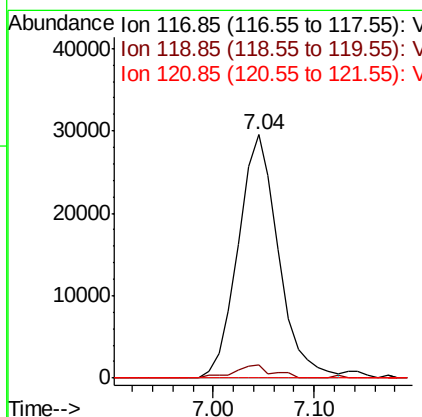
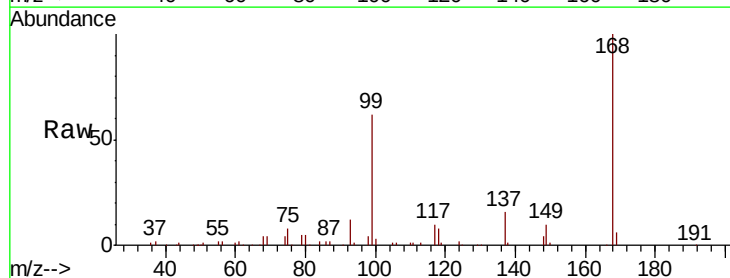
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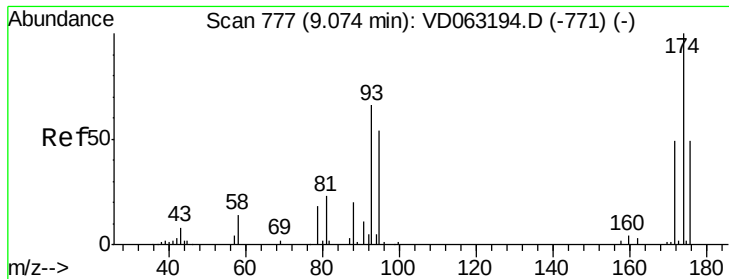
Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.2	16.1	48.2#
77	0.0	22.7	34.1#



#38
 Carbon Tetrachloride
 Concen: 4.814 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.05 min
 Lab File: VD063362.D
 Acq: 3 Aug 2019 15:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	78.2	117.2#
121	0.0	22.1	33.1#

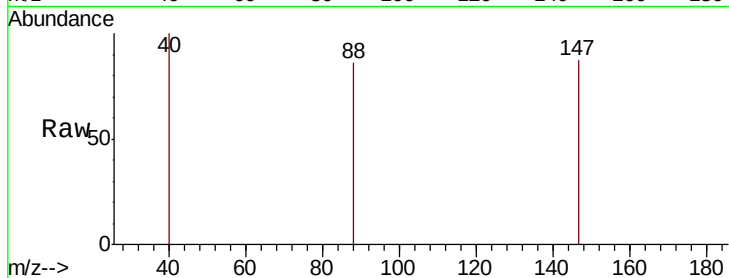




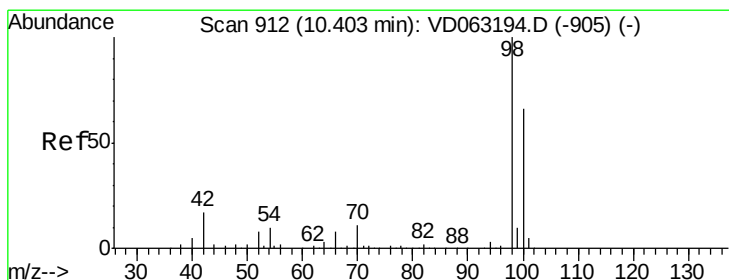
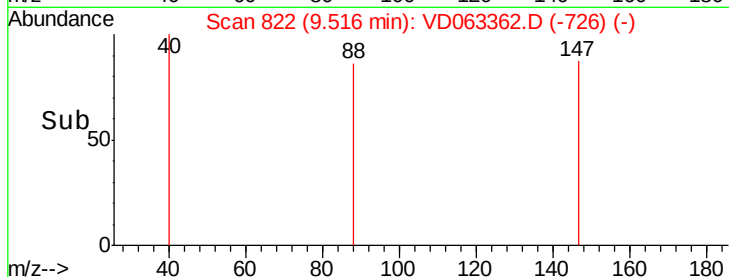
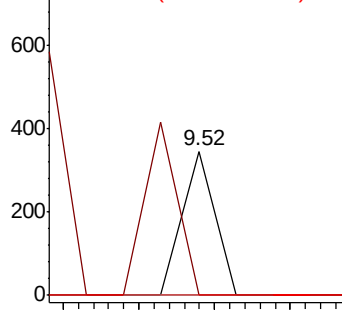
#49
1,4-Dioxane
Concen: 1.628 ug/l
RT: 9.52 min Scan# 822
Delta R.T. 0.44 min
Lab File: VD063362.D
Acq: 3 Aug 2019 15:35

Instrument :
MSVOA_D
ClientSampleId :
1S-C2-(30)

Tgt Ion: 88 Resp: 205
Ion Ratio Lower Upper
88 100
43 0.0 30.7 46.1#
58 0.0 56.5 84.7#

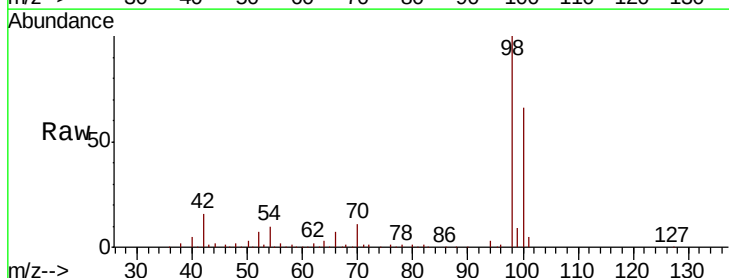


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

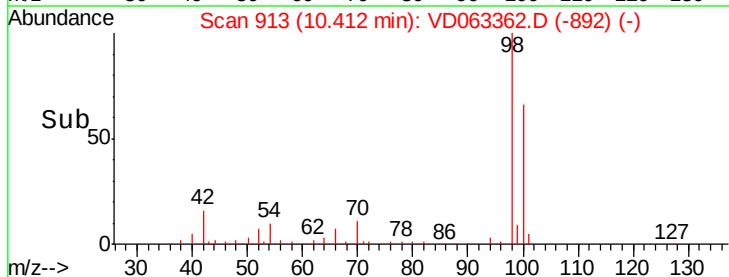
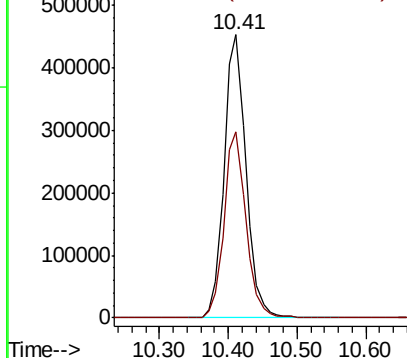


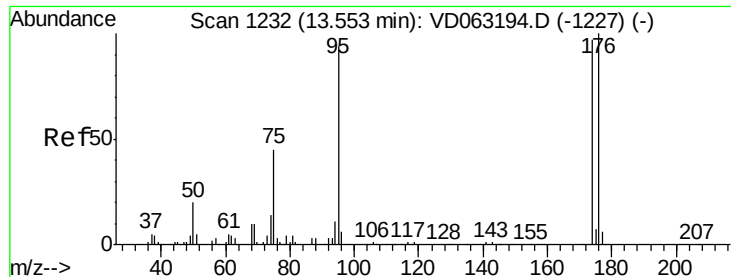
#50
Toluene-d8
Concen: 41.851 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063362.D
Acq: 3 Aug 2019 15:35

Tgt Ion: 98 Resp: 992919
Ion Ratio Lower Upper
98 100
100 65.8 53.2 79.8



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





#62

4-Bromofluorobenzene

Concen: 36.817 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063362.D

Acq: 3 Aug 2019 15:35

Instrument :

MSVOA_D

ClientSampleId :

1S-C2-(30)

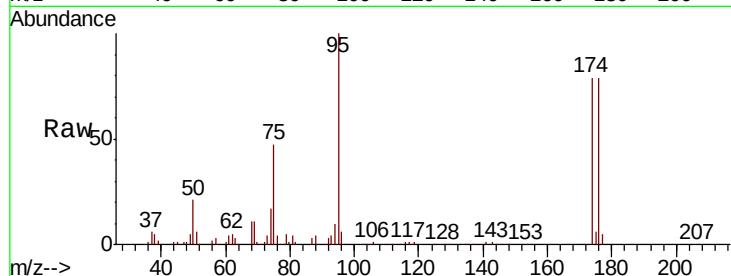
Tgt Ion: 95 Resp: 398040

Ion Ratio Lower Upper

95 100

174 79.1 0.0 205.4

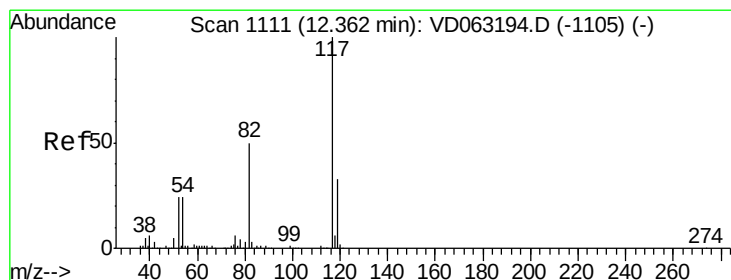
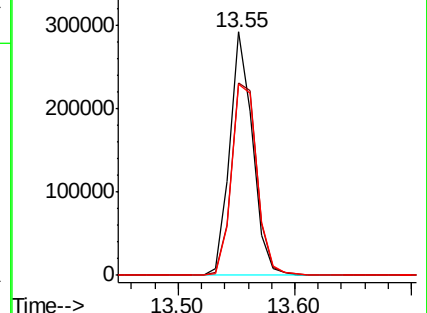
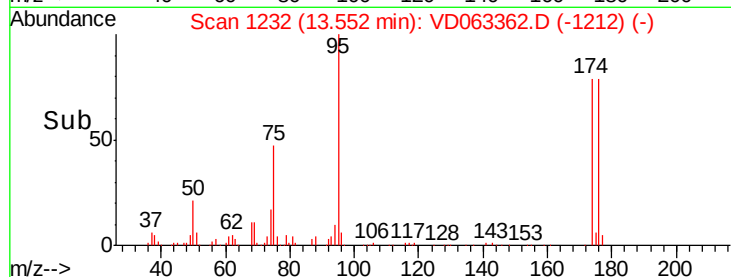
176 78.7 0.0 211.8



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: VD063362.D

Acq: 3 Aug 2019 15:35

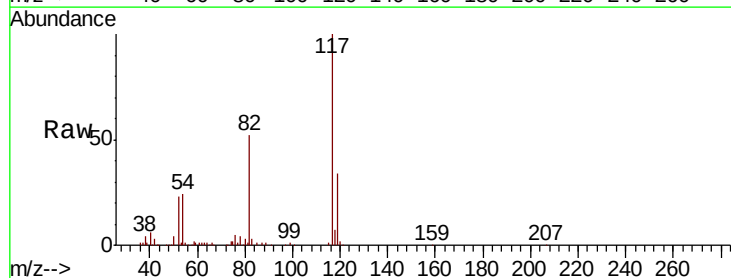
Tgt Ion: 117 Resp: 890368

Ion Ratio Lower Upper

117 100

82 51.9 40.1 60.1

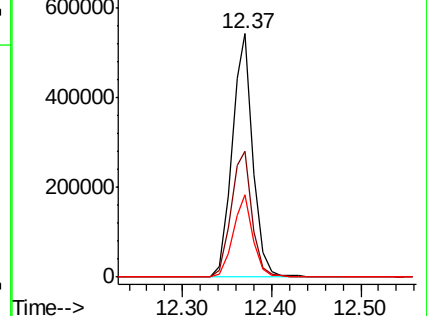
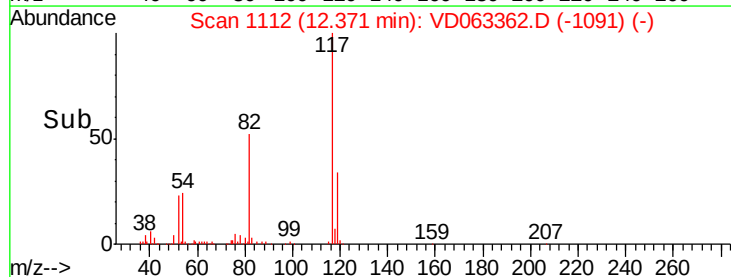
119 33.8 26.5 39.7

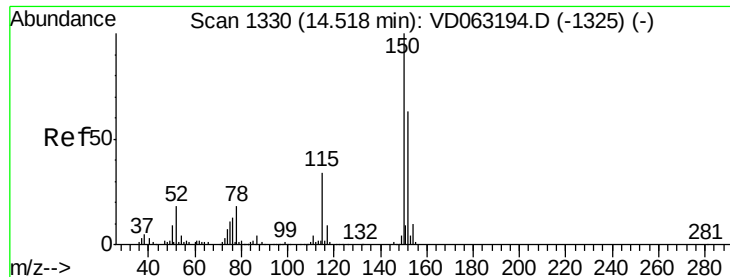


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

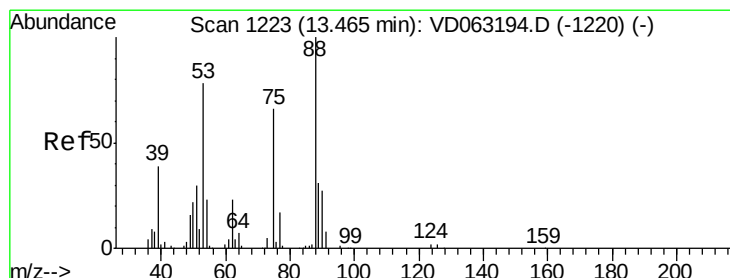
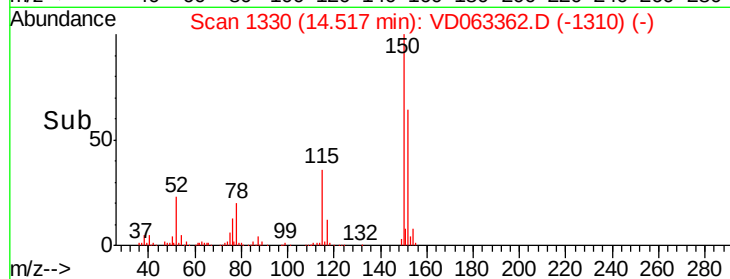
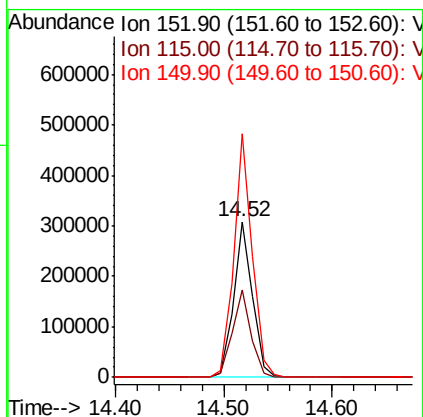
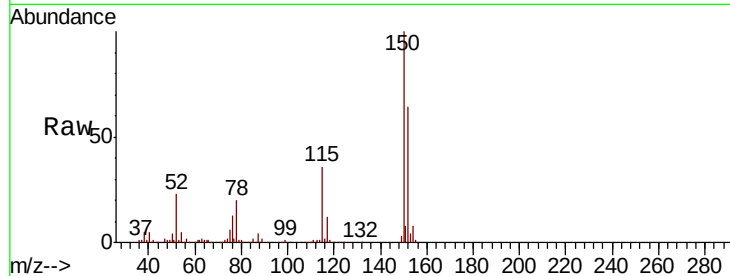




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. -0.00 min
 Lab File: VD063362.D
 Acq: 3 Aug 2019 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 1S-C2-(30)

Tgt Ion: 152 Resp: 372329
 Ion Ratio Lower Upper
 152 100
 115 56.2 27.5 82.4
 150 156.8 0.0 320.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 144.925 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.09 min
 Lab File: VD063362.D
 Acq: 3 Aug 2019 15:35

Tgt Ion: 75 Resp: 179972
 Ion Ratio Lower Upper
 75 100
 53 0.0 94.9 142.3#
 89 0.0 37.4 56.0#

