

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080319\
 Data File : VD063363.D
 Acq On : 3 Aug 2019 16:02
 Operator : VA/AP
 Sample : K4136-09
 Misc : 5.20g/5ml/MSVOA_D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 1S-C3-(30)

Quant Time: Aug 04 06:07:56 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	847115	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1124108	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	873697	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	326530	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	455689	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
35) Dibromofluoromethane	6.92	113	519594	54.14	ug/l	0.00
Spiked Amount			Recovery	=	108.28%	
50) Toluene-d8	10.40	98	974202	45.36	ug/l	0.00
Spiked Amount			Recovery	=	90.72%	
62) 4-Bromofluorobenzene	13.55	95	382308	39.06	ug/l	0.00
Spiked Amount			Recovery	=	78.12%	

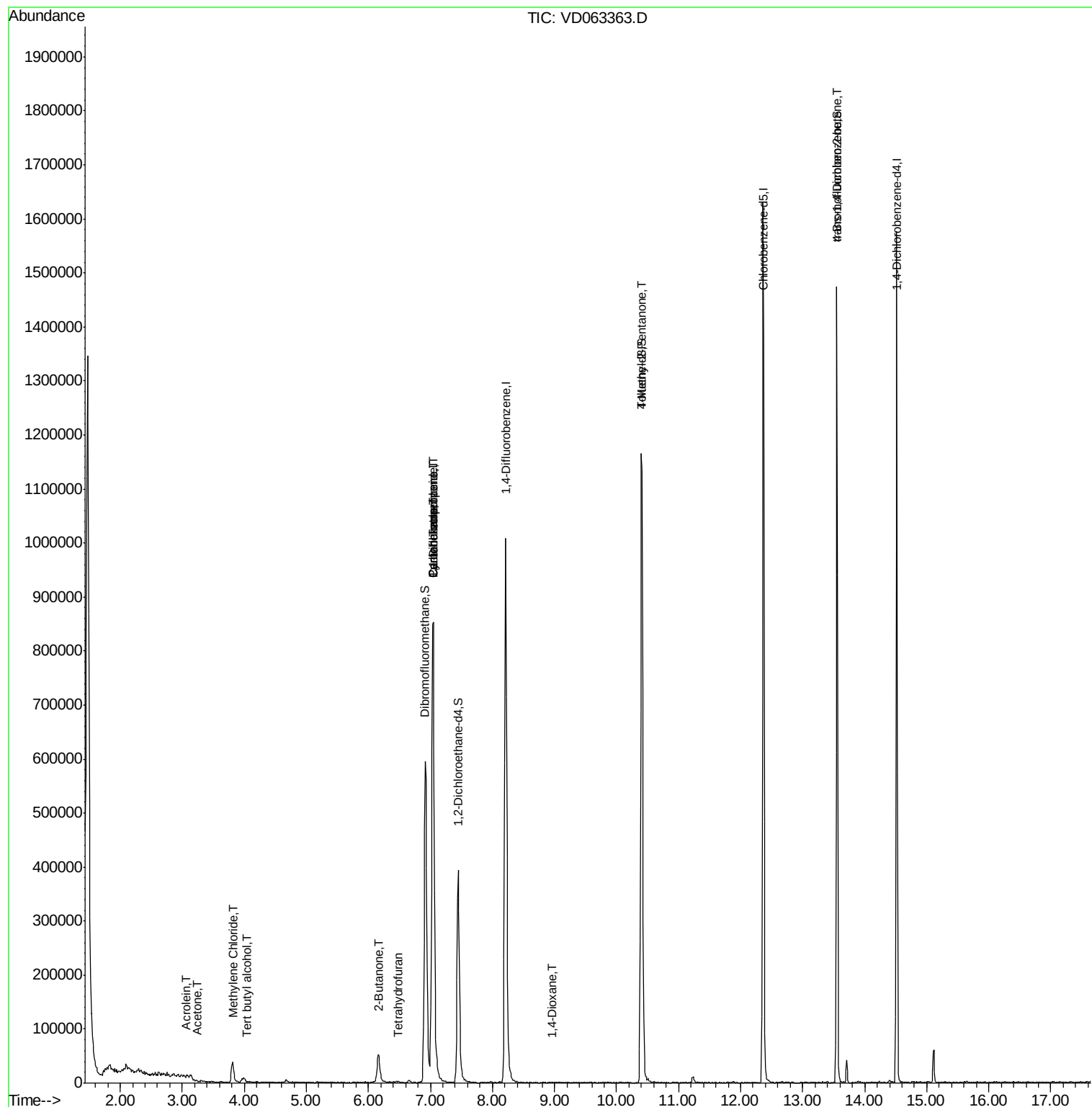
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.04	59	1660	4.024	ug/l #	69
13) Acrolein	3.06	56	555	1.398	ug/l #	15
16) Acetone	3.24	43	2839	1.550	ug/l #	62
20) Methylene Chloride	3.81	84	22385	3.024	ug/l	93
25) 2-Butanone	6.18	43	3681	2.003	ug/l #	56
29) Tetrahydrofuran	6.47	42	1019	1.171	ug/l #	52
31) Cyclohexane	7.04	56	19108	2.282	ug/l #	20
36) 1,1-Dichloropropene	7.04	75	70088	6.832	ug/l #	51
38) Carbon Tetrachloride	7.05	117	81668	5.288	ug/l #	15
49) 1,4-Dioxane	8.97	88	239	3.286	ug/l #	2
51) 4-Methyl-2-Pentanone	10.40	43	5497	1.373	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	185770	170.576	ug/l #	3

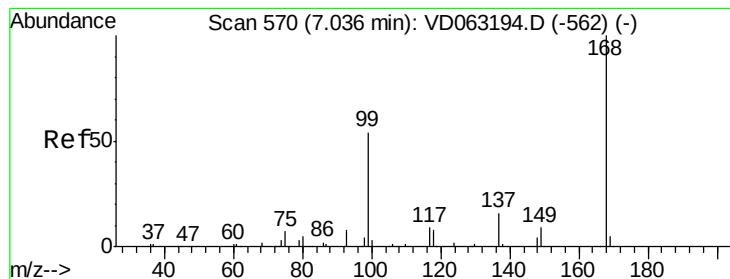
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063363.D

Acq: 3 Aug 2019 16:02

Instrument :

MSVOA_D

ClientSampleId :

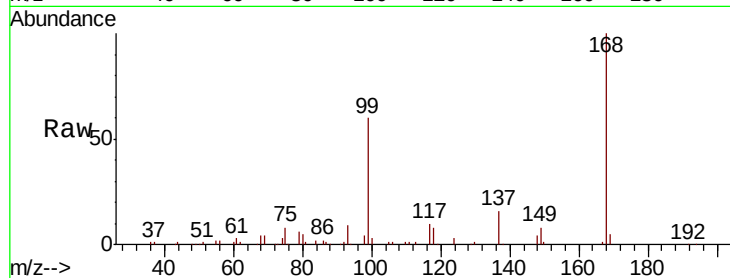
1S-C3-(30)

Tgt Ion:168 Resp: 847115

Ion Ratio Lower Upper

168 100

99 60.2 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

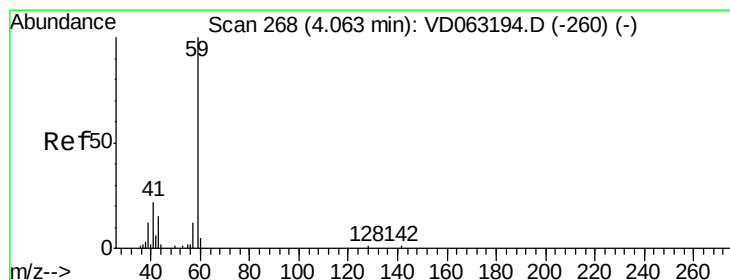
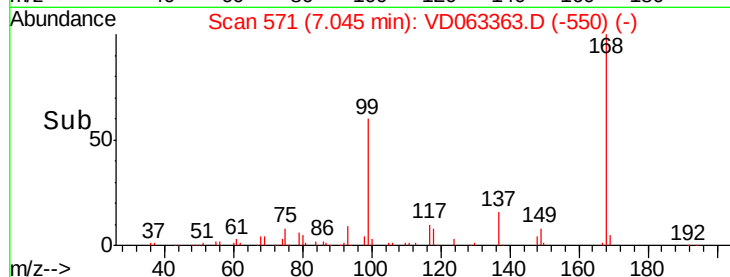
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.024 ug/l

RT: 4.04 min Scan# 266

Delta R.T. -0.02 min

Lab File: VD063363.D

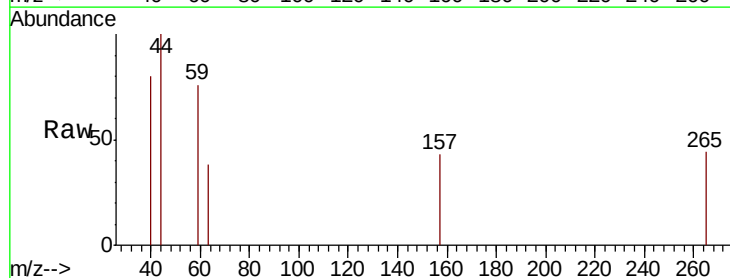
Acq: 3 Aug 2019 16:02

Tgt Ion: 59 Resp: 1660

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

3000

2500

2000

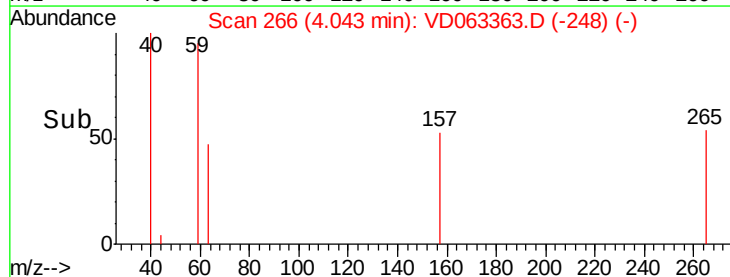
1500

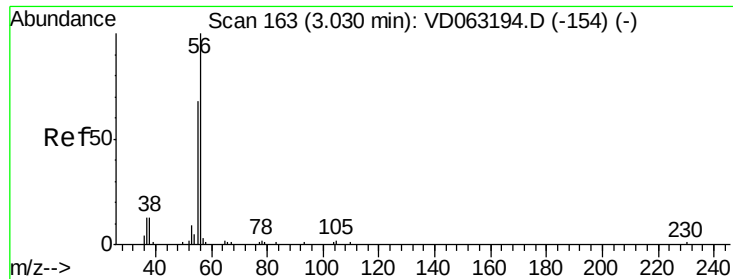
1000

500

0

Time-->





#13

Acrolein

Concen: 1.398 ug/l

RT: 3.06 min Scan# 166

Delta R.T. 0.03 min

Lab File: VD063363.D

Acq: 3 Aug 2019 16:02

Instrument :

MSVOA_D

ClientSampleId :

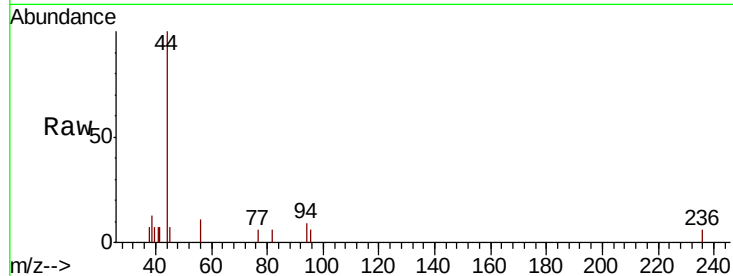
1S-C3-(30)

Tgt Ion: 56 Resp: 555

Ion Ratio Lower Upper

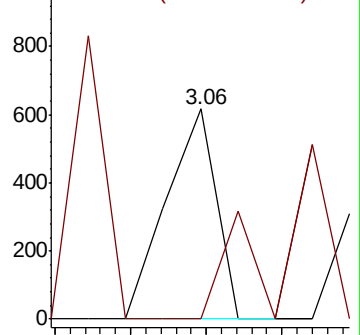
56 100

55 0.0 55.3 82.9#

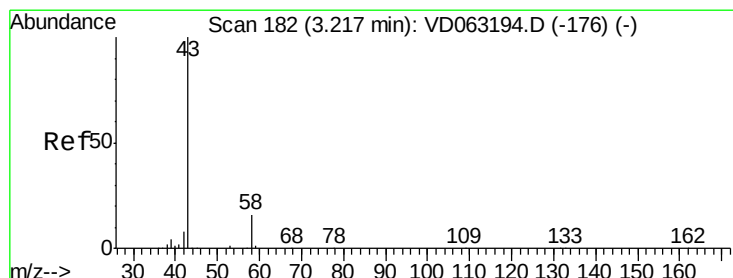
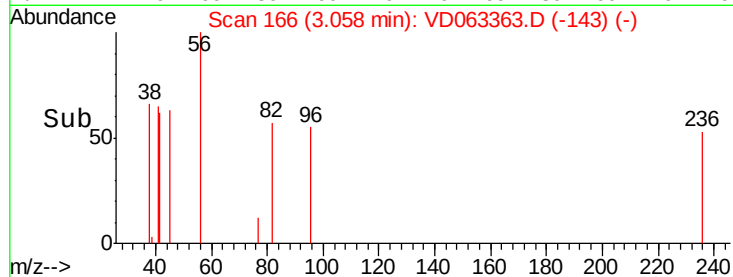


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



Time-->



#16

Acetone

Concen: 1.550 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.02 min

Lab File: VD063363.D

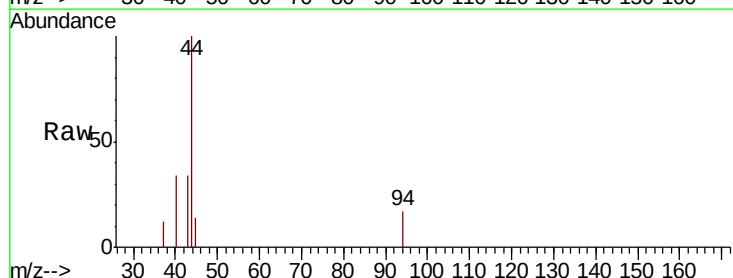
Acq: 3 Aug 2019 16:02

Tgt Ion: 43 Resp: 2839

Ion Ratio Lower Upper

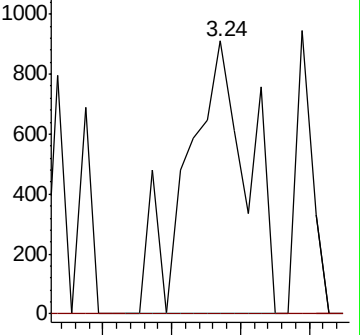
43 100

58 0.0 13.0 19.4#

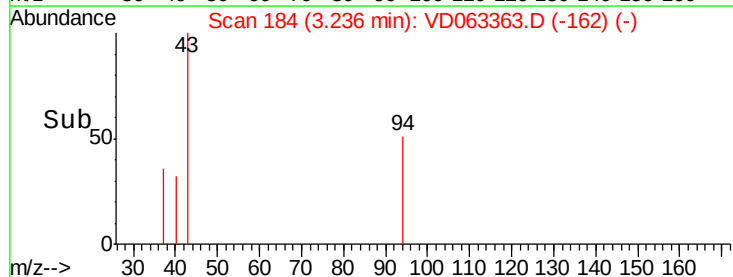


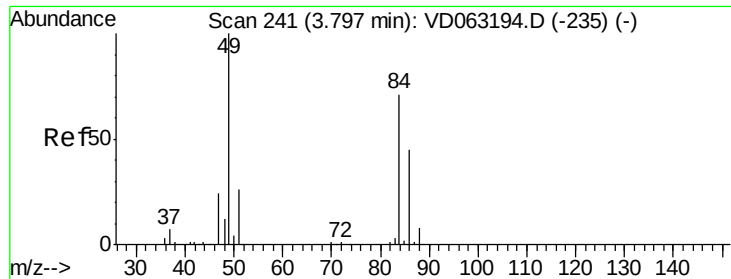
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->

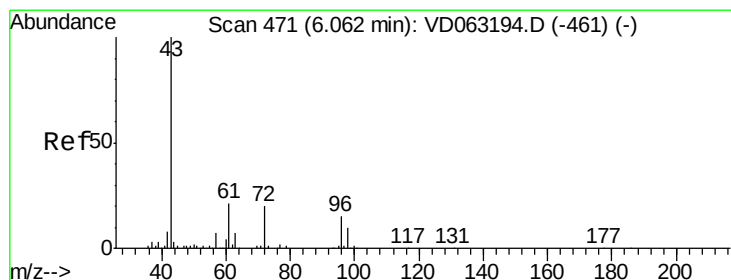
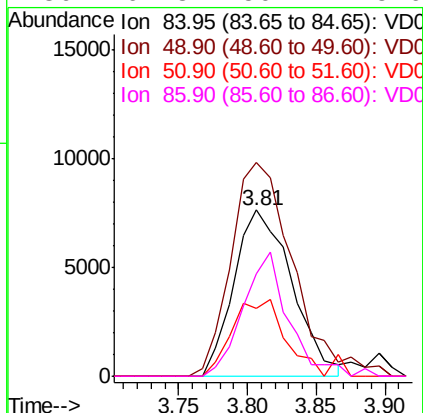
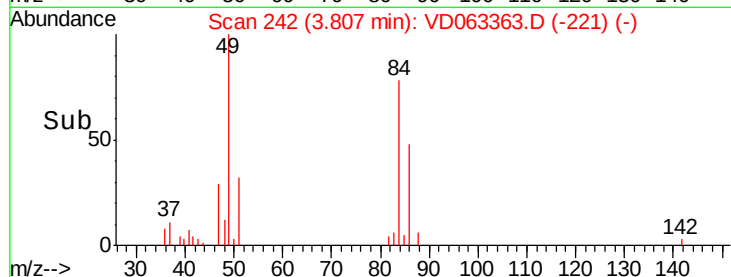
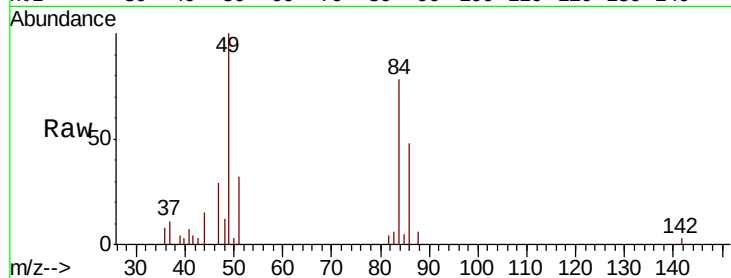




#20
Methylene Chloride
Concen: 3.024 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD063363.D
Acq: 3 Aug 2019 16:02

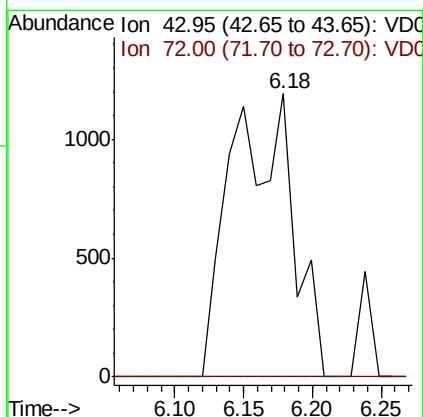
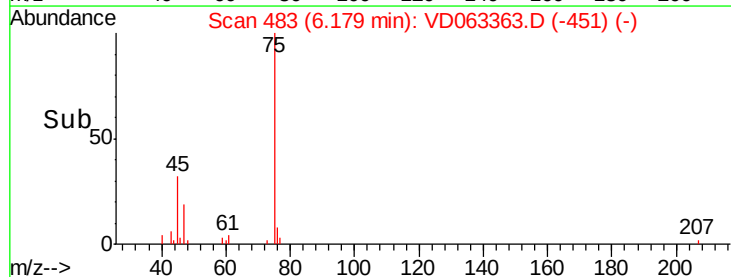
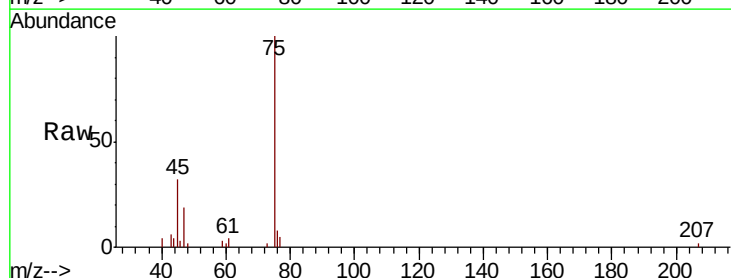
Instrument :
MSVOA_D
ClientSampleId :
1S-C3-(30)

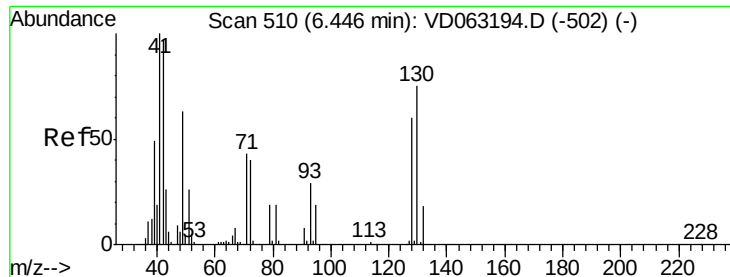
Tgt Ion: 84 Resp: 22385
Ion Ratio Lower Upper
84 100
49 128.4 112.5 168.7
51 40.8 29.6 44.4
86 61.8 50.4 75.6



#25
2-Butanone
Concen: 2.003 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.12 min
Lab File: VD063363.D
Acq: 3 Aug 2019 16:02

Tgt Ion: 43 Resp: 3681
Ion Ratio Lower Upper
43 100
72 0.0 16.3 24.5#





#29

Tetrahydrofuran

Concen: 1.171 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD063363.D

Acq: 3 Aug 2019 16:02

Instrument :

MSVOA_D

ClientSampleId :

1S-C3-(30)

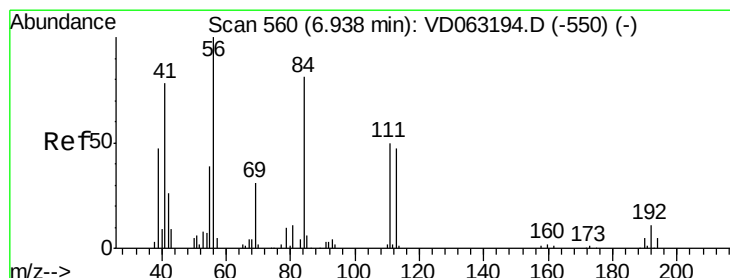
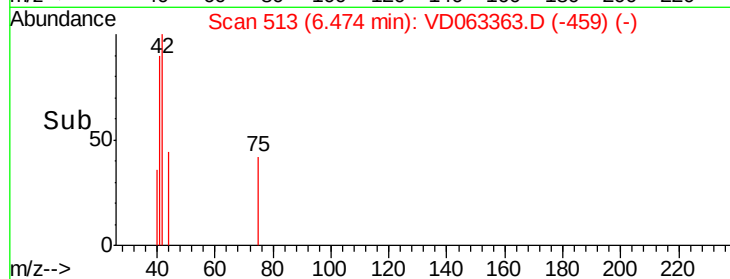
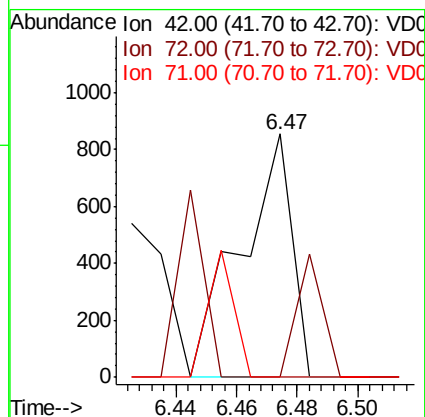
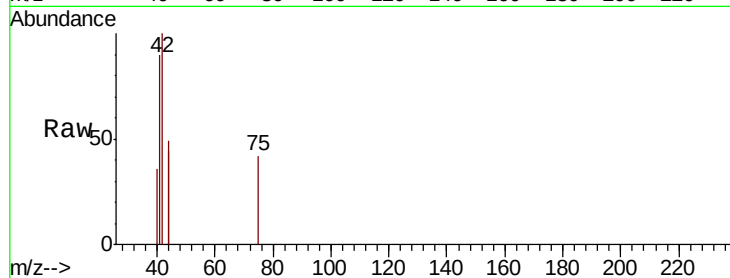
Tgt Ion: 42 Resp: 1019

Ion Ratio Lower Upper

42 100

72 25.1 33.4 50.2#

71 0.0 35.7 53.5#



#31

Cyclohexane

Concen: 2.282 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD063363.D

Acq: 3 Aug 2019 16:02

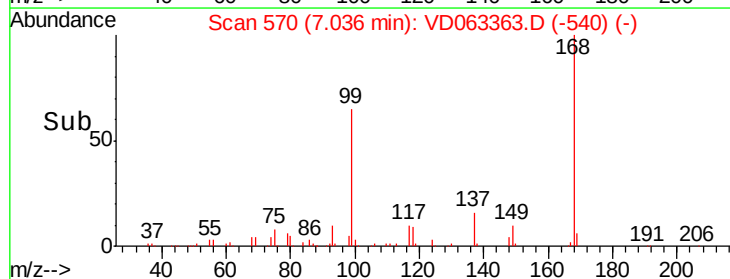
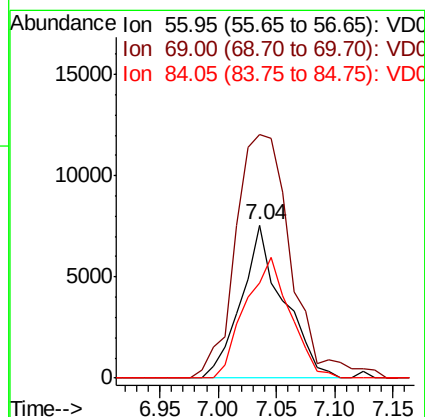
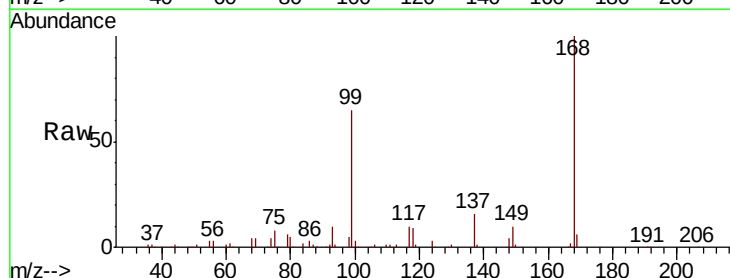
Tgt Ion: 56 Resp: 19108

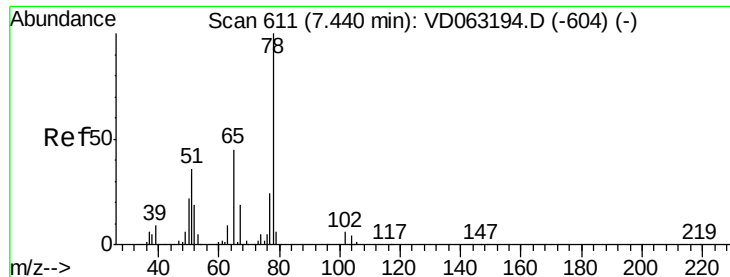
Ion Ratio Lower Upper

56 100

69 159.3 24.5 36.7#

84 61.9 64.9 97.3#

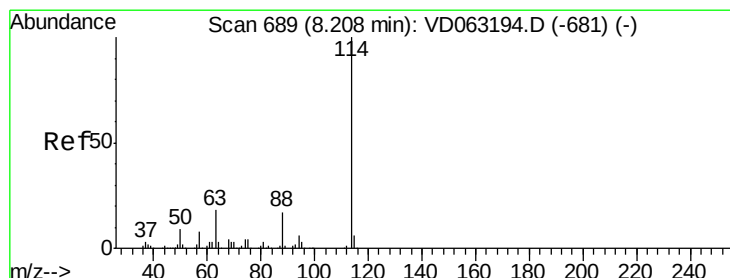
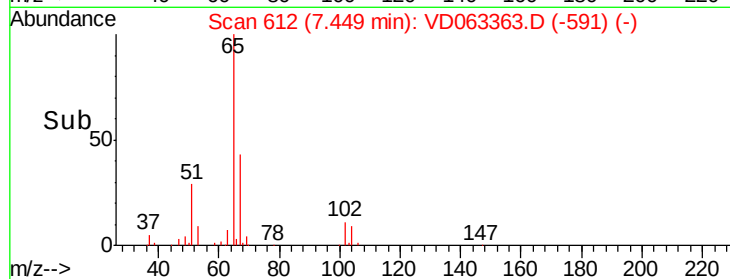
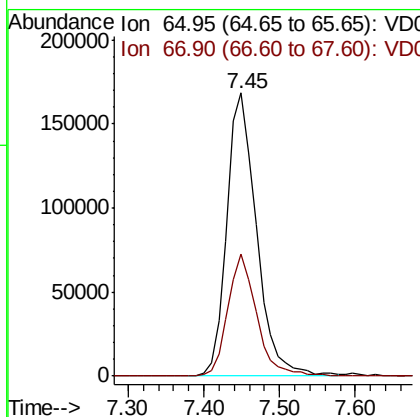
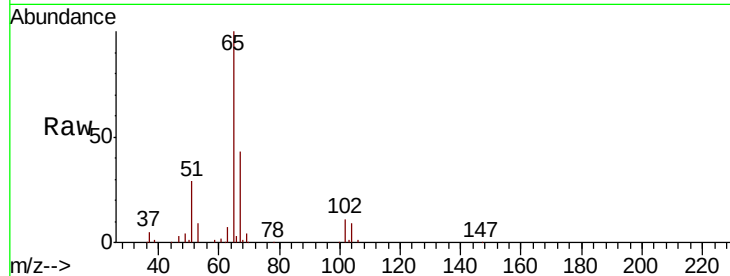




#33
 1,2-Dichloroethane-d4
 Concen: 48.480 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.01 min
 Lab File: VD063363.D
 Acq: 3 Aug 2019 16:02

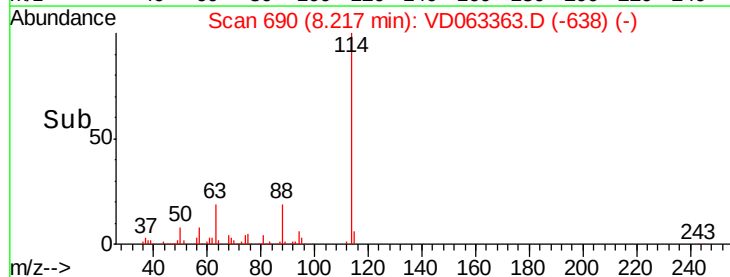
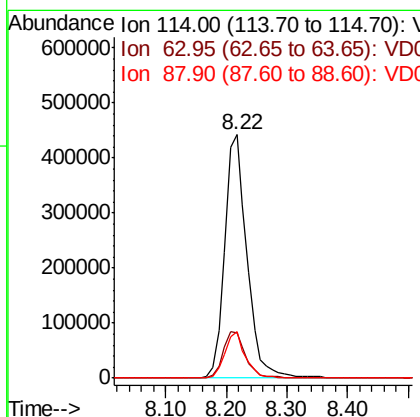
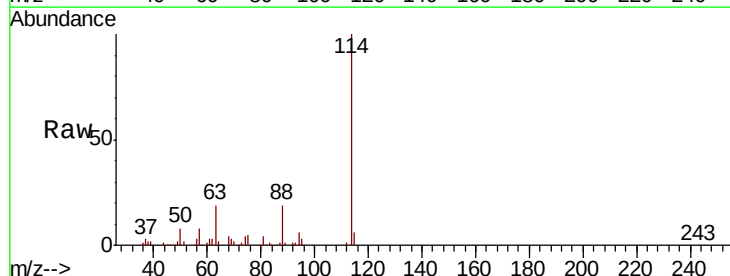
Instrument :
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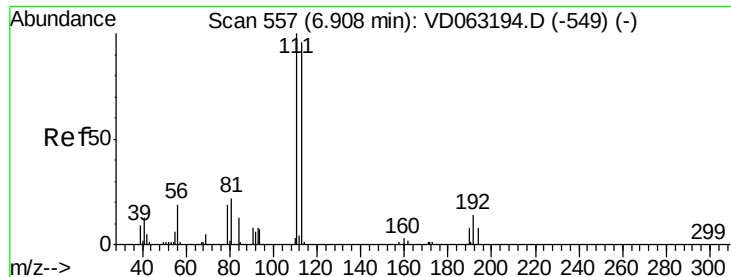
Tgt Ion: 65 Resp: 455689
 Ion Ratio Lower Upper
 65 100
 67 43.1 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063363.D
 Acq: 3 Aug 2019 16:02

Tgt Ion: 114 Resp: 1124108
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 35.2
 88 18.9 0.0 34.6

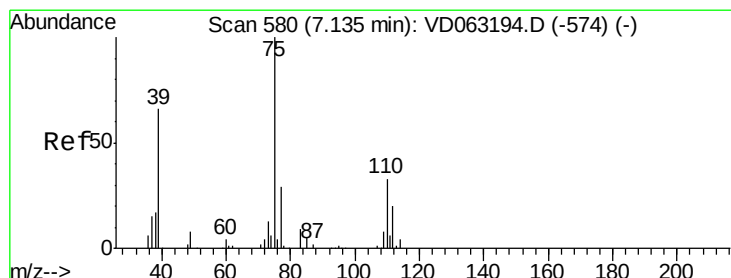
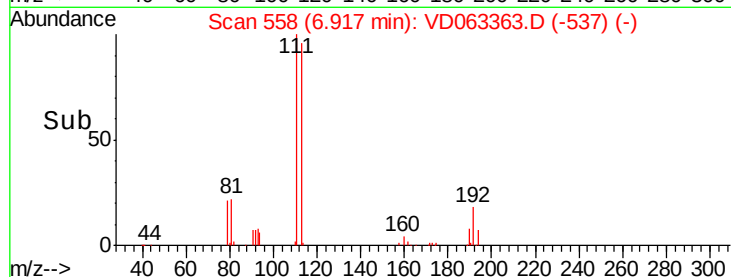
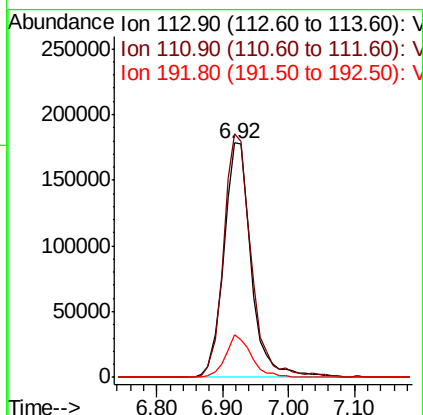
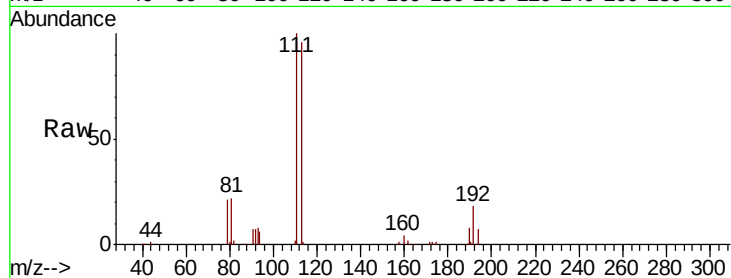




#35
Dibromofluoromethane
Concen: 54.139 ug/l
RT: 6.92 min Scan# 558
Delta R.T. 0.01 min
Lab File: VD063363.D
Acq: 3 Aug 2019 16:02

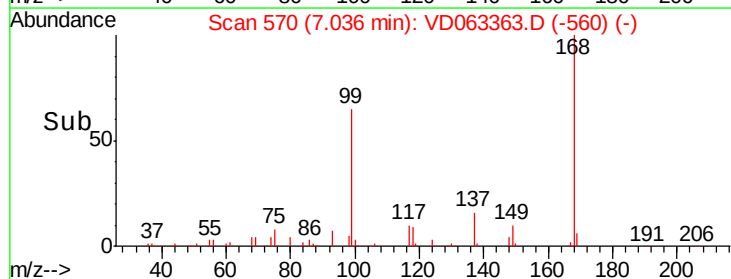
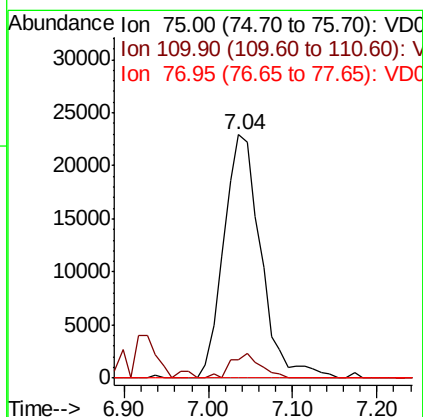
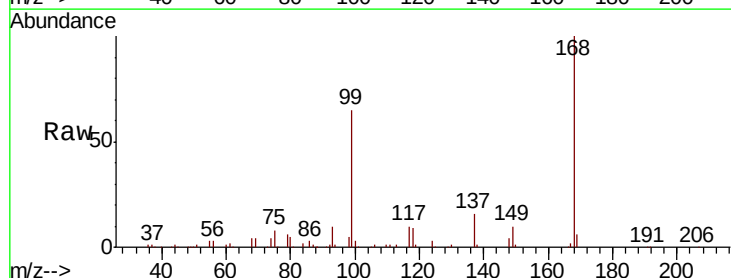
Instrument :
MSVOA_D
ClientSampleId :
1S-C3-(30)

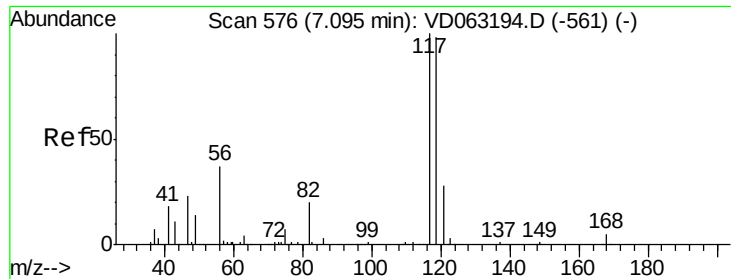
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.9	83.2	124.8
192	18.3	11.8	17.8#



#36
1,1-Dichloropropene
Concen: 6.832 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.10 min
Lab File: VD063363.D
Acq: 3 Aug 2019 16:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.3	16.1	48.2#
77	0.0	22.7	34.1#





#38

Carbon Tetrachloride

Concen: 5.288 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.05 min

Lab File: VD063363.D

Acq: 3 Aug 2019 16:02

Instrument :

MSVOA_D

ClientSampleId :

1S-C3-(30)

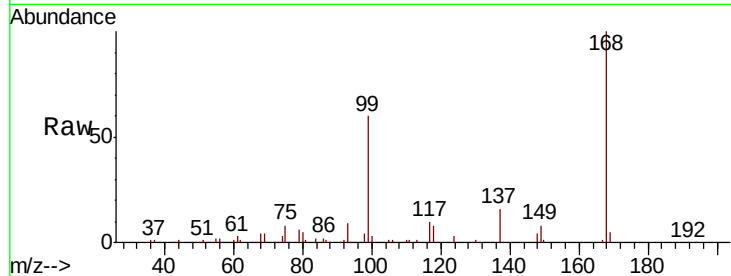
Tgt Ion:117 Resp: 81668

Ion Ratio Lower Upper

117 100

119 4.3 78.2 117.2#

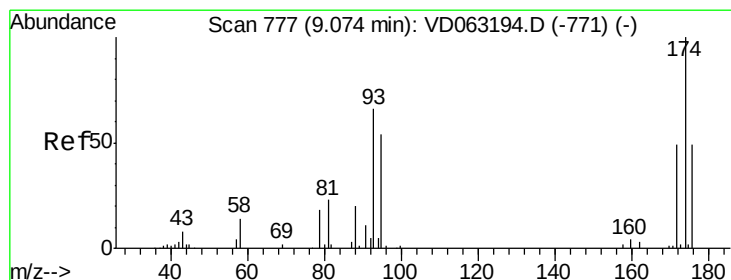
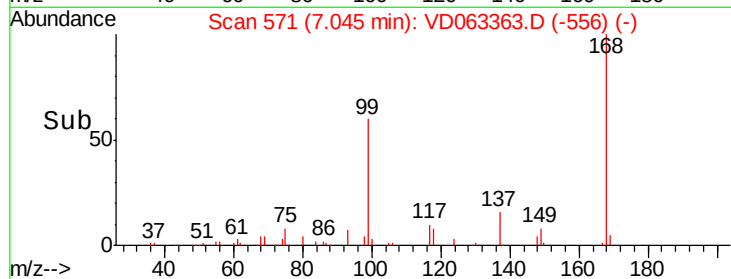
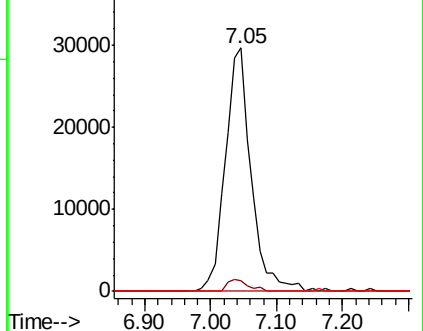
121 0.0 22.1 33.1#



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



#49

1,4-Dioxane

Concen: 3.286 ug/l

RT: 8.97 min Scan# 766

Delta R.T. -0.11 min

Lab File: VD063363.D

Acq: 3 Aug 2019 16:02

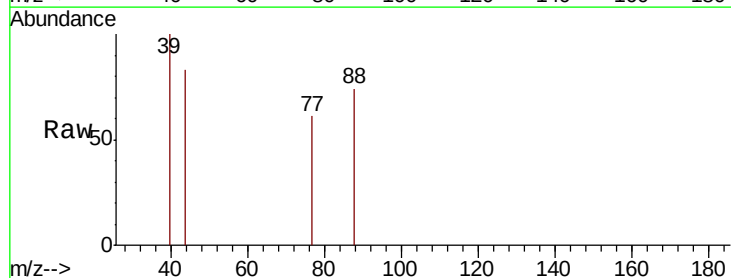
Tgt Ion: 88 Resp: 239

Ion Ratio Lower Upper

88 100

43 111.4 30.7 46.1#

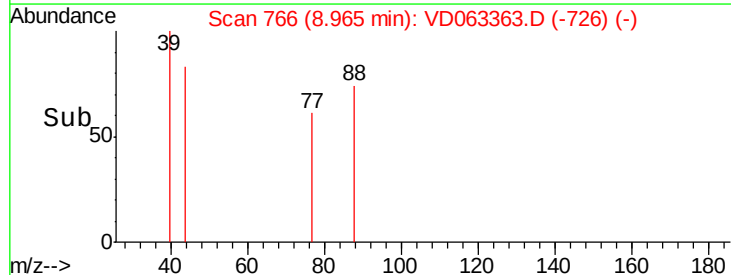
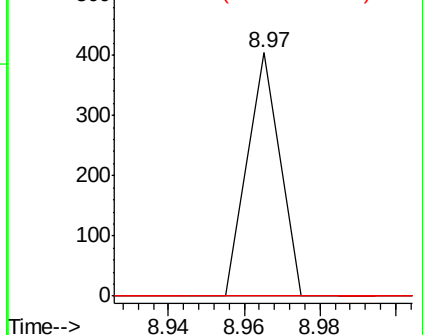
58 0.0 56.5 84.7#

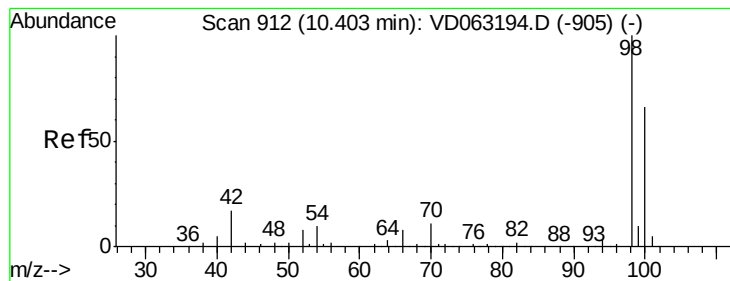


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 45.356 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.00 min

Lab File: VD063363.D

Acq: 3 Aug 2019 16:02

Instrument :

MSVOA_D

ClientSampleId :

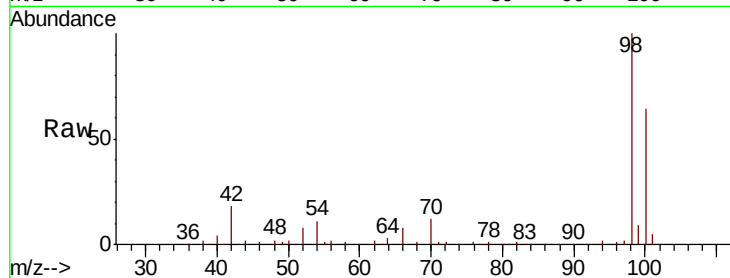
1S-C3-(30)

Tgt Ion: 98 Resp: 974202

Ion Ratio Lower Upper

98 100

100 63.8 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

10.40

400000

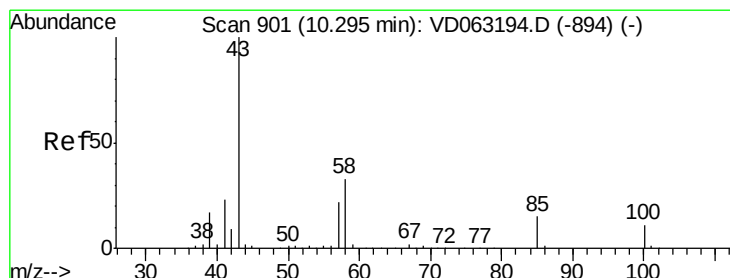
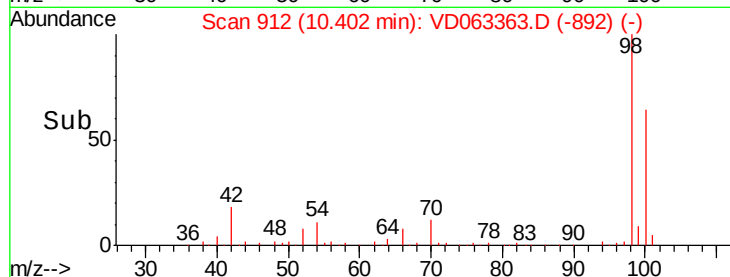
300000

200000

100000

0

Time--> 10.30 10.40 10.50



#51

4-Methyl-2-Pentanone

Concen: 1.373 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.11 min

Lab File: VD063363.D

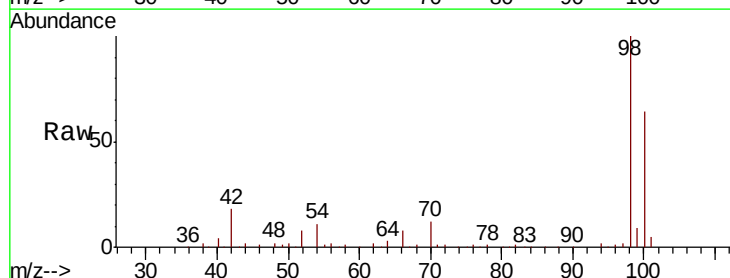
Acq: 3 Aug 2019 16:02

Tgt Ion: 43 Resp: 5497

Ion Ratio Lower Upper

43 100

58 212.5 26.2 39.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

5000

4000

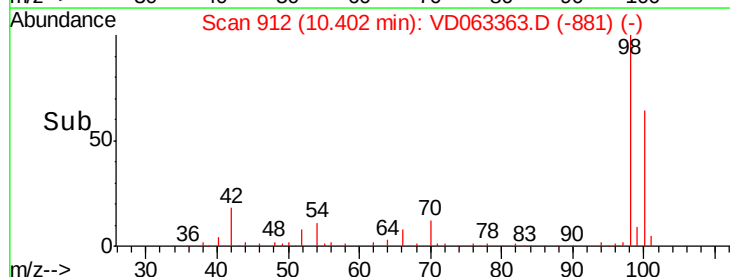
3000

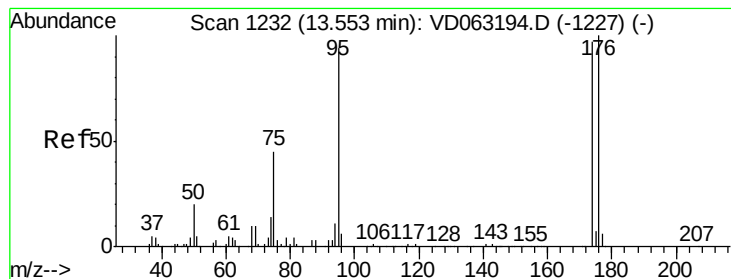
2000

1000

0

Time--> 10.30 10.40 10.50





#62

4-Bromofluorobenzene

Concen: 39.059 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063363.D

Acq: 3 Aug 2019 16:02

Instrument :

MSVOA_D

ClientSampleId :

1S-C3-(30)

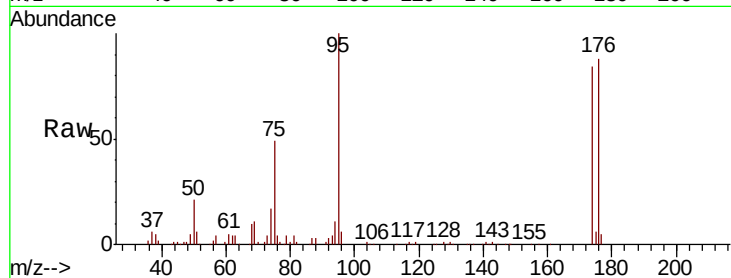
Tgt Ion: 95 Resp: 382308

Ion Ratio Lower Upper

95 100

174 83.9 0.0 205.4

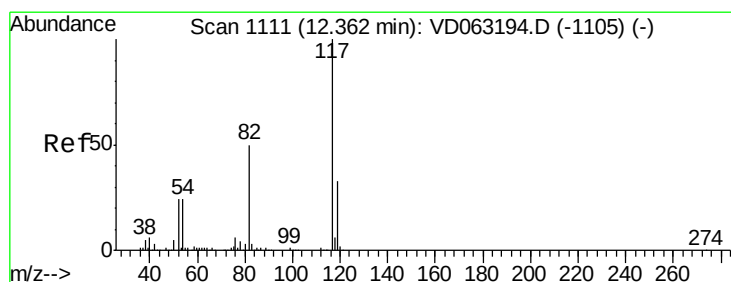
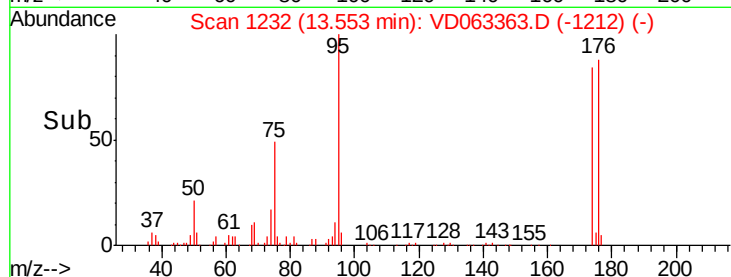
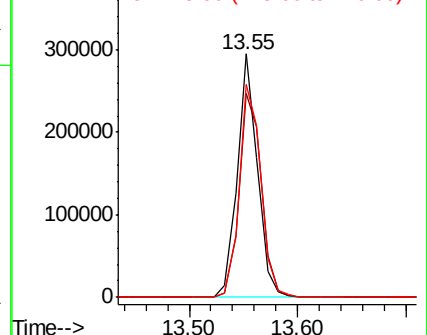
176 87.6 0.0 211.8



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: 12.36 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VD063363.D

Acq: 3 Aug 2019 16:02

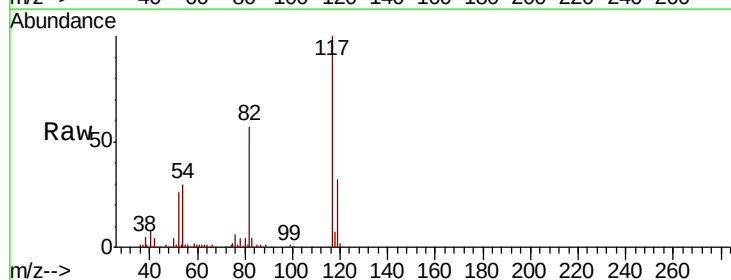
Tgt Ion: 117 Resp: 873697

Ion Ratio Lower Upper

117 100

82 57.0 40.1 60.1

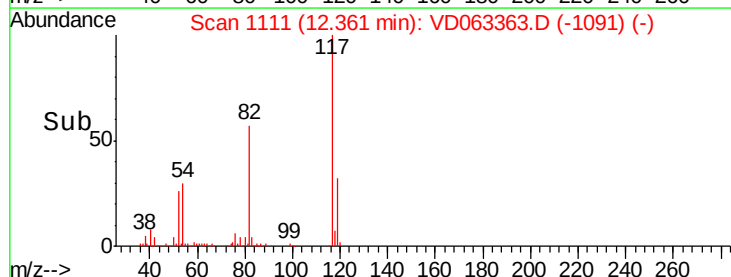
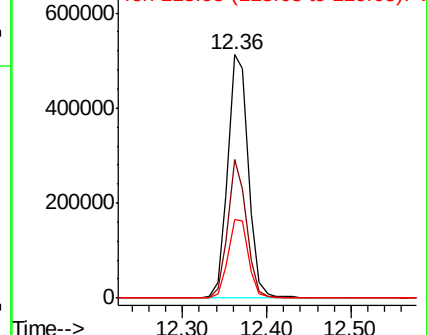
119 32.1 26.5 39.7

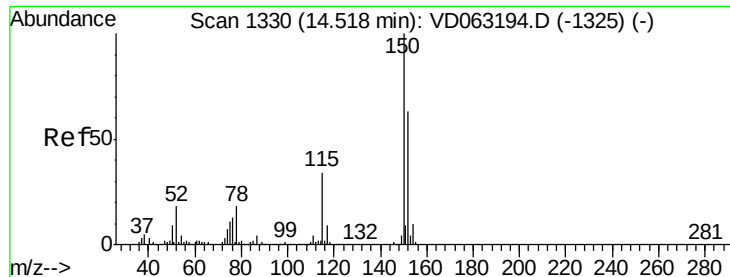


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

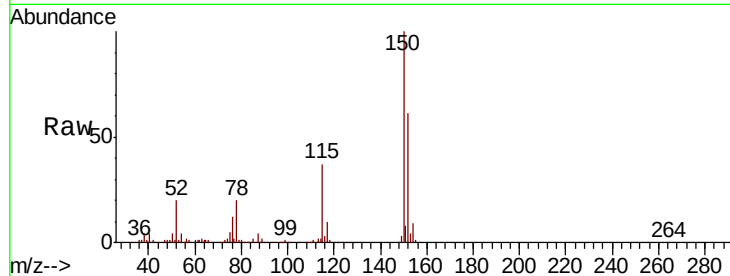




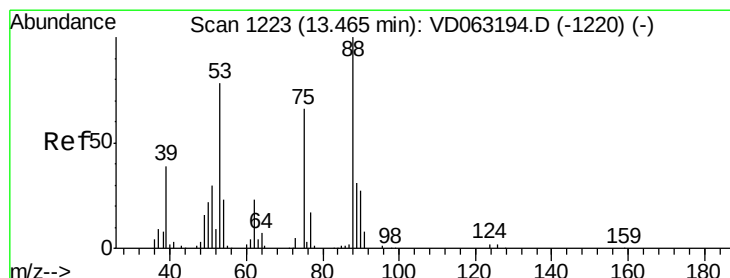
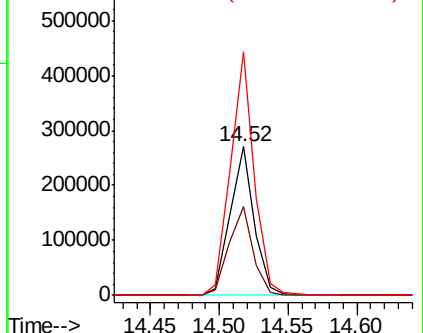
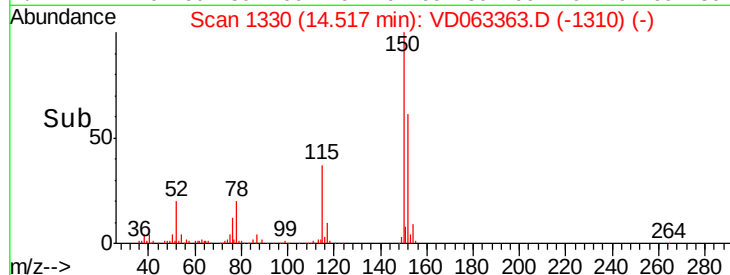
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. -0.00 min
 Lab File: VD063363.D
 Acq: 3 Aug 2019 16:02

Instrument :
 MSVOA_D
 ClientSampleId :
 1S-C3-(30)

Tgt Ion: 152 Resp: 326530
 Ion Ratio Lower Upper
 152 100
 115 59.9 27.5 82.4
 150 163.8 0.0 320.6

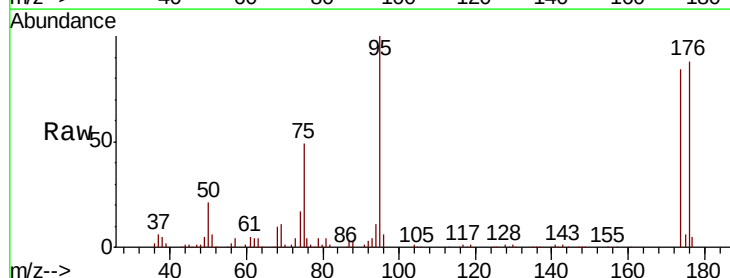


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V



#81
 trans-1,4-Dichloro-2-butene
 Concen: 170.576 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.09 min
 Lab File: VD063363.D
 Acq: 3 Aug 2019 16:02

Tgt Ion: 75 Resp: 185770
 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

