

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080819\
 Data File : VD063438.D
 Acq On : 8 Aug 2019 15:09
 Operator : JC/SY
 Sample : K4092-03RE
 Misc : 5.74g/5ml/MSVOA_D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 EO-01-080719-B

Quant Time: Aug 09 06:58:06 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	7.06	168	875565	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	1251956	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	961668	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.53	152	370449	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	504996	51.98	ug/l	0.02
Spiked Amount 50.000			Recovery	=	103.96%	
35) Dibromofluoromethane	6.94	113	546267	51.11	ug/l	0.03
Spiked Amount 50.000			Recovery	=	102.22%	
50) Toluene-d8	10.42	98	1097982	45.90	ug/l	0.02
Spiked Amount 50.000			Recovery	=	91.80%	
62) 4-Bromofluorobenzene	13.56	95	387822	35.58	ug/l	0.01
Spiked Amount 50.000			Recovery	=	71.16%	

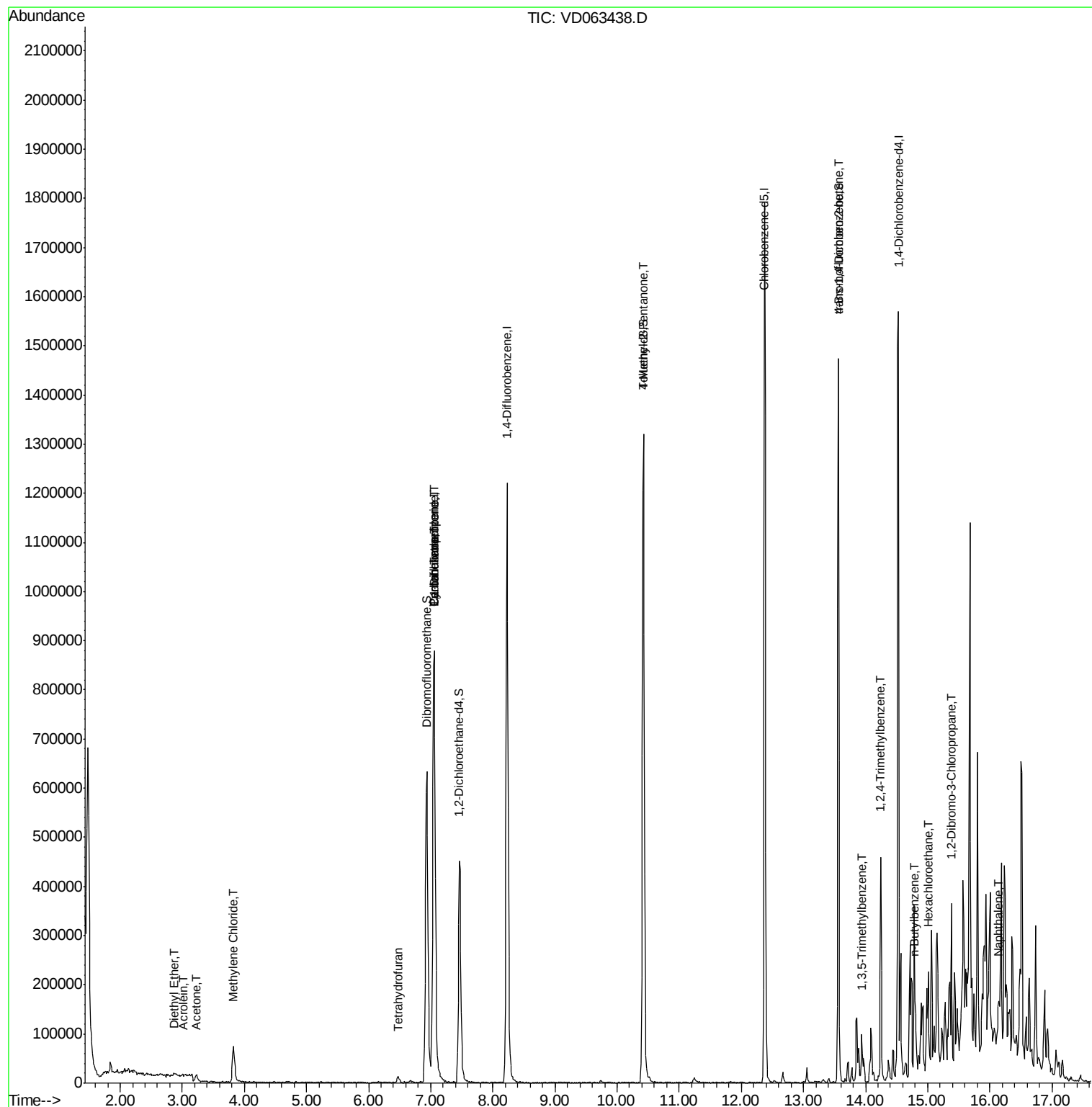
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.86	74	2544	1.088	ug/l	87
13) Acrolein	3.02	56	663	1.616	ug/l #	15
16) Acetone	3.23	43	23978	12.667	ug/l #	81
20) Methylene Chloride	3.83	84	46675	6.100	ug/l #	79
29) Tetrahydrofuran	6.48	42	8242	9.164	ug/l #	90
31) Cyclohexane	7.06	56	20060	2.318	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	64079	5.608	ug/l #	54
38) Carbon Tetrachloride	7.06	117	91796	5.337	ug/l #	15
51) 4-Methyl-2-Pentanone	10.42	43	8026	1.800	ug/l #	68
80) 1,3,5-Trimethylbenzene	13.94	105	39918	1.991	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.56	75	186662	151.075	ug/l #	3
84) 1,2,4-Trimethylbenzene	14.24	105	189830	9.152	ug/l	97
89) n-Butylbenzene	14.80	91	57870	2.910	ug/l	94
90) Hexachloroethane	15.01	117	15859	2.644	ug/l #	14
92) 1,2-Dibromo-3-Chloropropan	15.38	75	2193	2.726	ug/l #	4
95) Naphthalene	16.13	128	27432	2.394	ug/l #	91

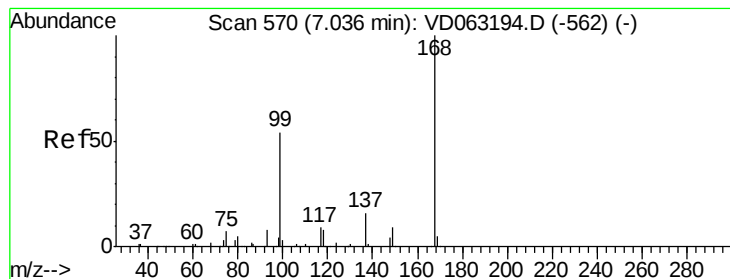
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063438.D

Acq: 8 Aug 2019 15:09

Instrument :

MSVOA_D

ClientSampleId :

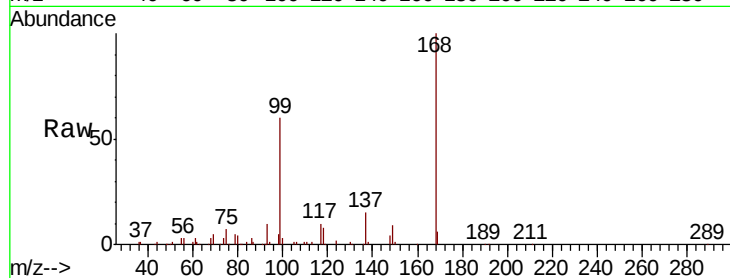
EO-01-080719-B

Tgt Ion:168 Resp: 875565

Ion Ratio Lower Upper

168 100

99 59.7 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

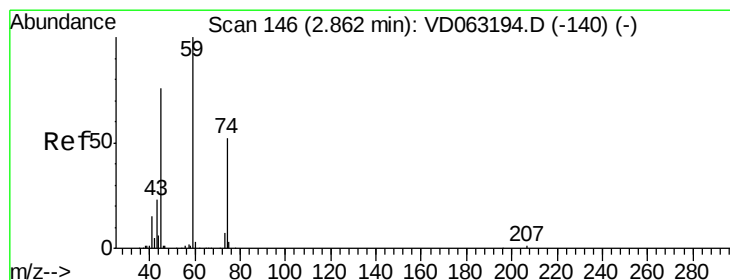
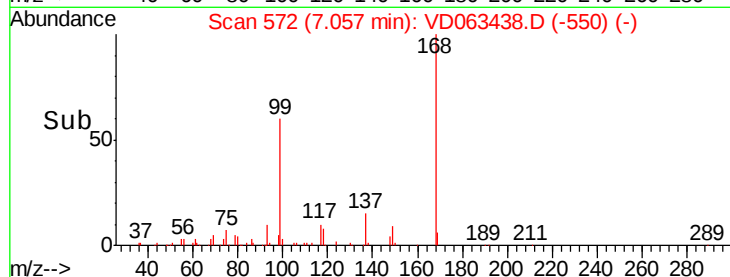
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 1.088 ug/l

RT: 2.86 min Scan# 146

Delta R.T. 0.00 min

Lab File: VD063438.D

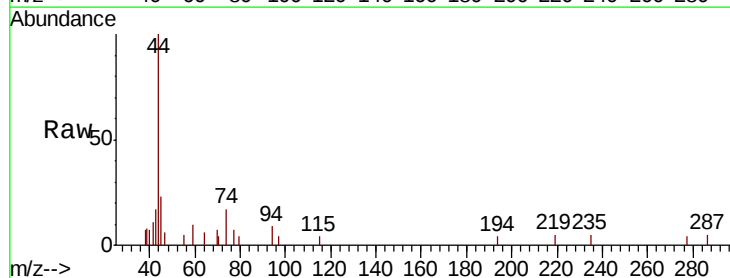
Acq: 8 Aug 2019 15:09

Tgt Ion: 74 Resp: 2544

Ion Ratio Lower Upper

74 100

45 131.0 73.6 220.8



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

2.86

2000

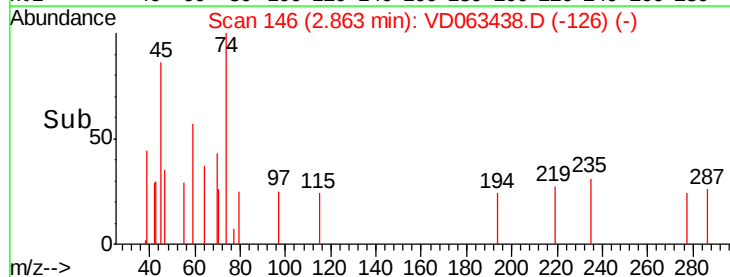
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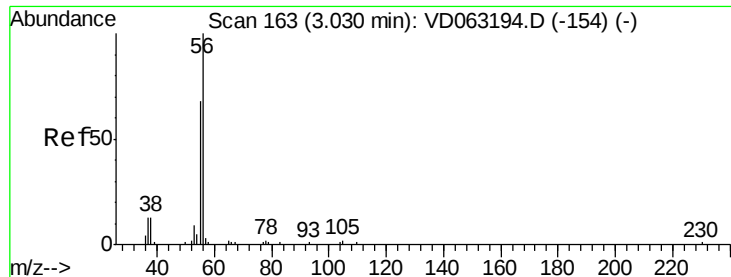
1000

500

0

Time-->





#13

Acrolein

Concen: 1.616 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.01 min

Lab File: VD063438.D

Acq: 8 Aug 2019 15:09

Instrument :

MSVOA_D

ClientSampleId :

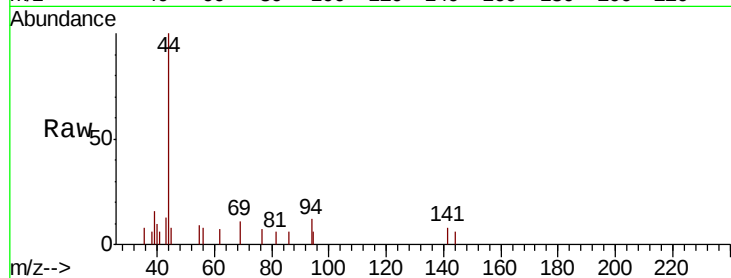
EO-01-080719-B

Tgt Ion: 56 Resp: 663

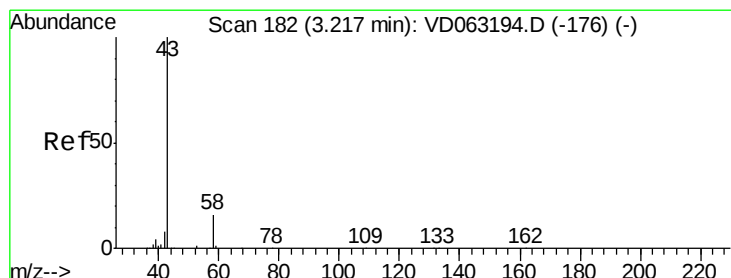
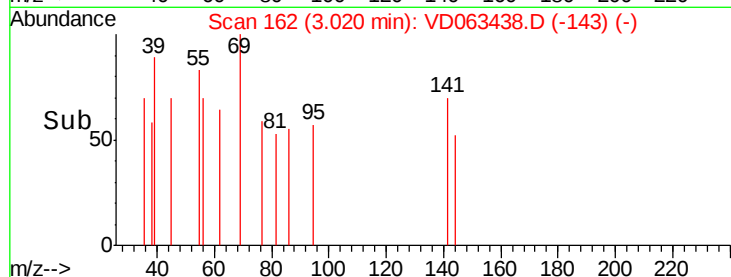
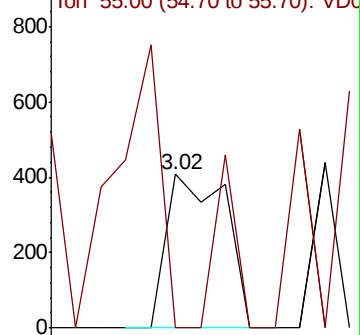
Ion Ratio Lower Upper

56 100

55 0.0 55.3 82.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC



#16

Acetone

Concen: 12.667 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063438.D

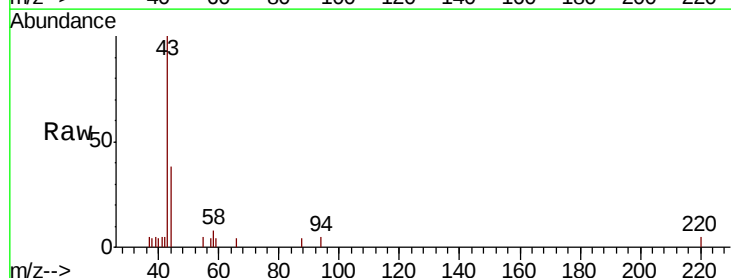
Acq: 8 Aug 2019 15:09

Tgt Ion: 43 Resp: 23978

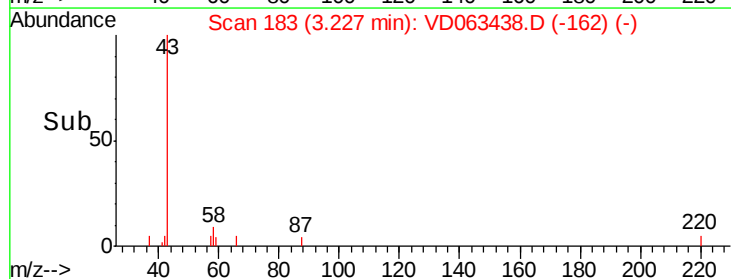
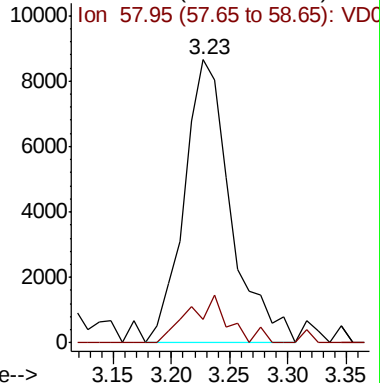
Ion Ratio Lower Upper

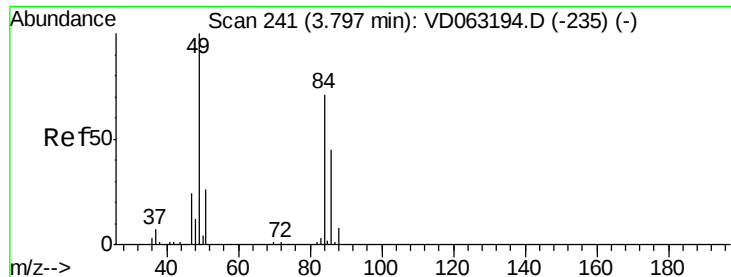
43 100

58 8.1 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

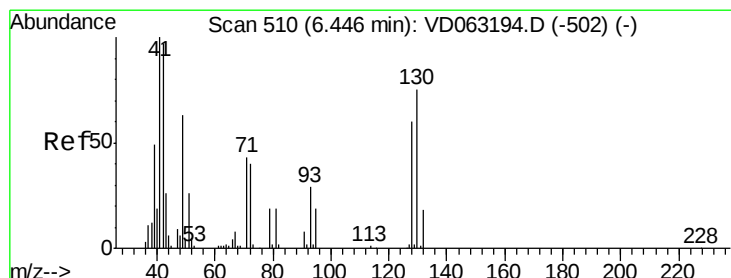
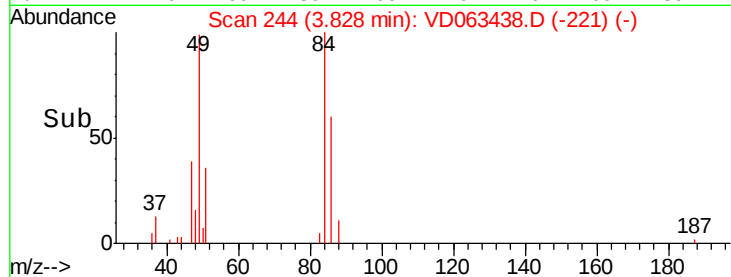
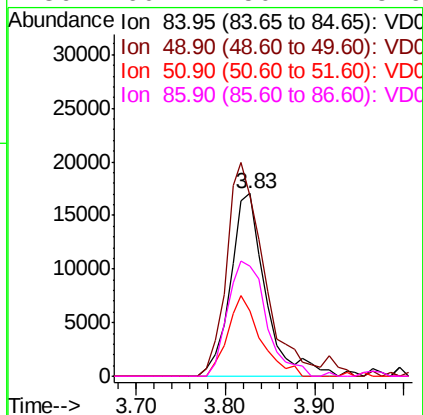
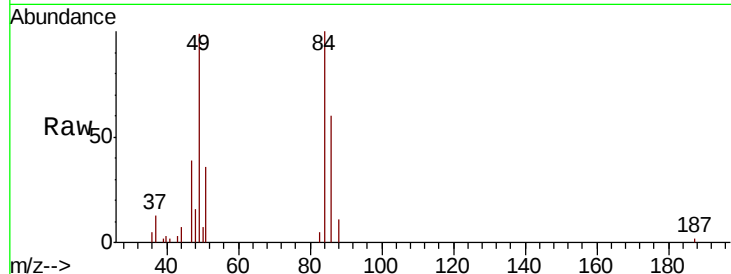




#20
Methylene Chloride
Concen: 6.100 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.03 min
Lab File: VD063438.D
Acq: 8 Aug 2019 15:09

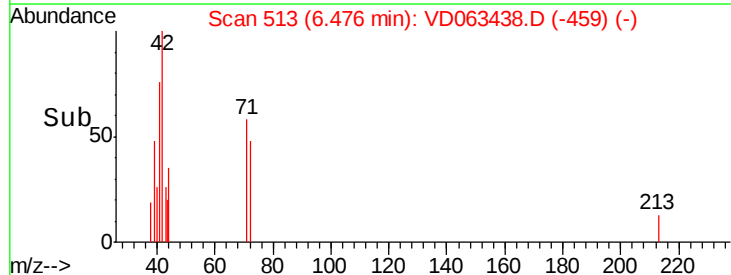
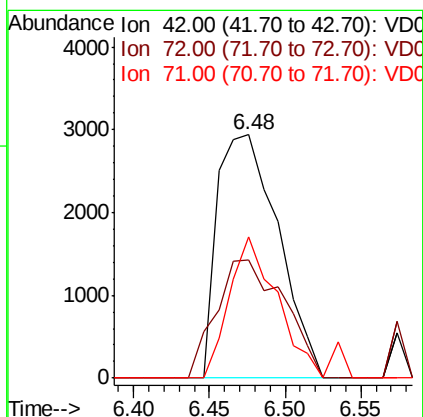
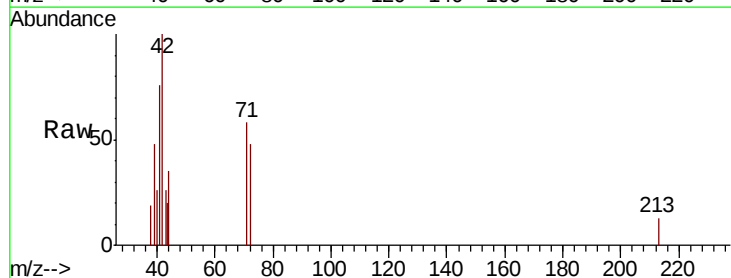
Instrument :
MSVOA_D
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EO-01-080719-B

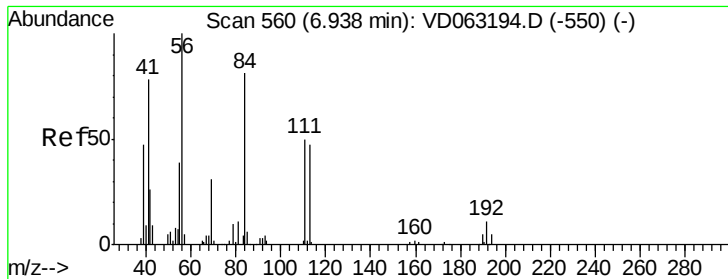
Tgt Ion: 84 Resp: 46675
Ion Ratio Lower Upper
84 100
49 98.6 112.5 168.7#
51 35.7 29.6 44.4
86 60.2 50.4 75.6



#29
Tetrahydrofuran
Concen: 9.164 ug/l
RT: 6.48 min Scan# 513
Delta R.T. 0.03 min
Lab File: VD063438.D
Acq: 8 Aug 2019 15:09

Tgt Ion: 42 Resp: 8242
Ion Ratio Lower Upper
42 100
72 54.2 33.4 50.2#
71 45.3 35.7 53.5

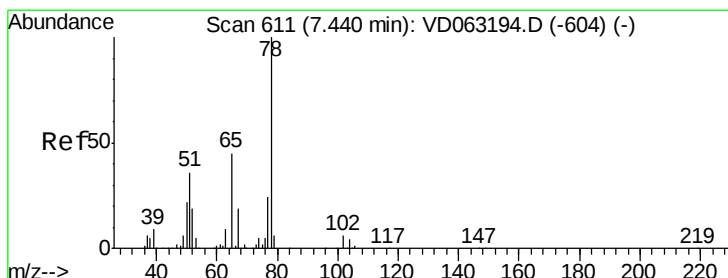
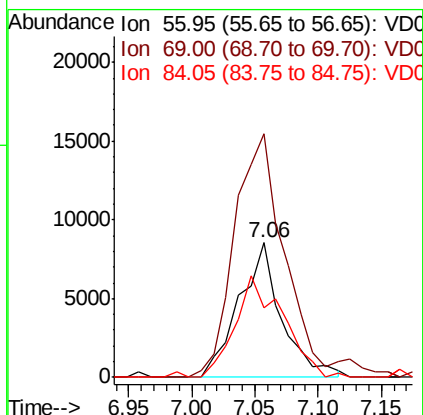
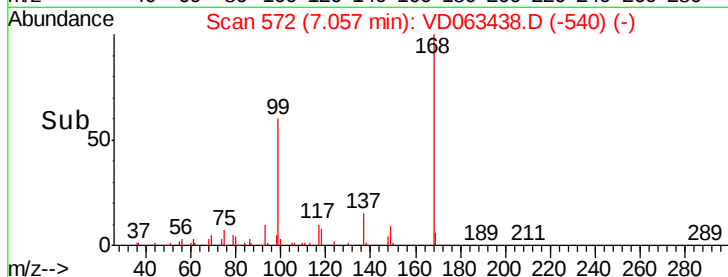
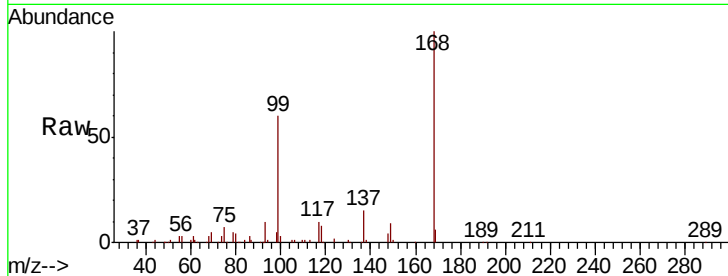




#31
Cyclohexane
Concen: 2.318 ug/l
RT: 7.06 min Scan# 572
Delta R.T. 0.12 min
Lab File: VD063438.D
Acq: 8 Aug 2019 15:09

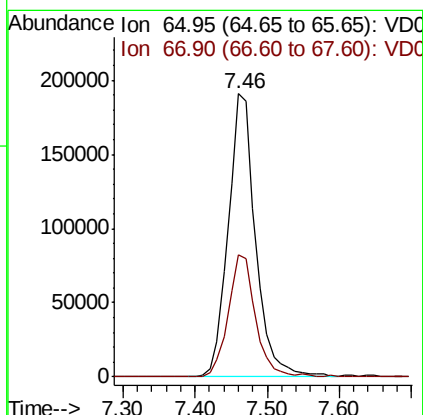
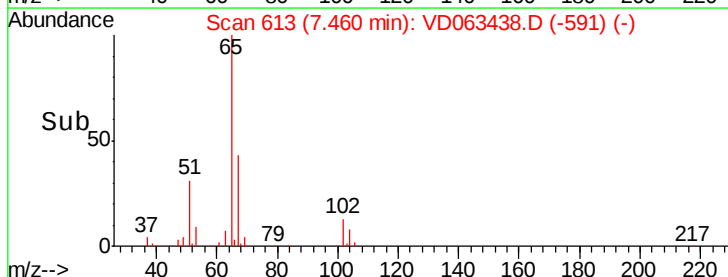
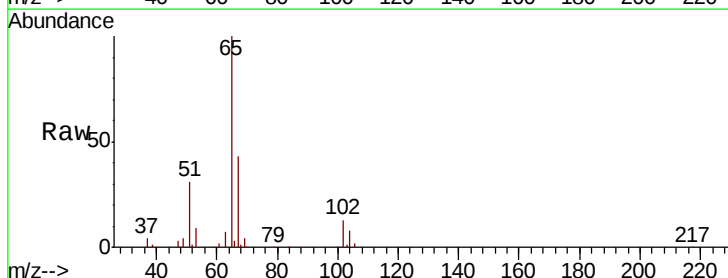
Instrument :
MSVOA_D
ClientSampleId :
EO-01-080719-B

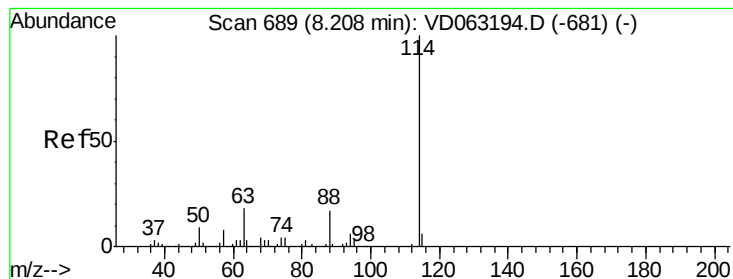
Tgt Ion: 56 Resp: 20060
Ion Ratio Lower Upper
56 100
69 180.9 24.5 36.7#
84 51.2 64.9 97.3#



#33
1,2-Dichloroethane-d4
Concen: 51.980 ug/l
RT: 7.46 min Scan# 613
Delta R.T. 0.02 min
Lab File: VD063438.D
Acq: 8 Aug 2019 15:09

Tgt Ion: 65 Resp: 504996
Ion Ratio Lower Upper
65 100
67 43.2 0.0 85.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.02 min

Lab File: VD063438.D

Acq: 8 Aug 2019 15:09

Instrument :

MSVOA_D

ClientSampleId :

EO-01-080719-B

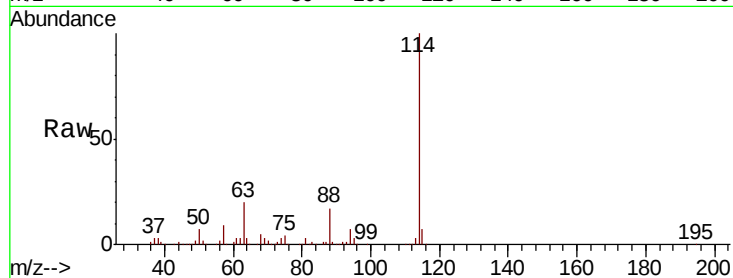
Tgt Ion:114 Resp: 1251956

Ion Ratio Lower Upper

114 100

63 19.5 0.0 35.2

88 17.3 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

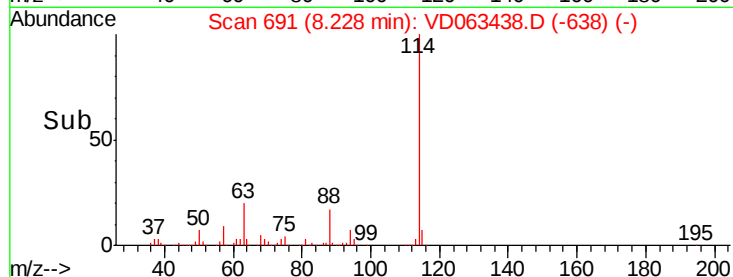
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200000

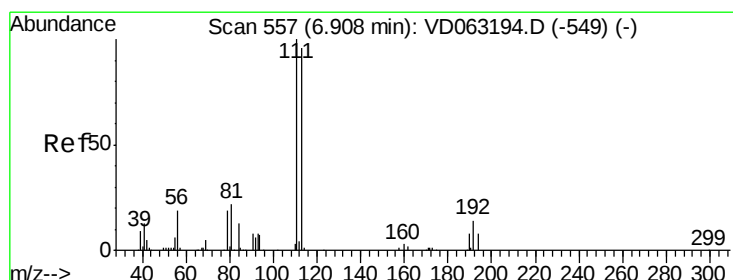
0

8.23

8.10 8.20 8.30 8.40



Time-->



#35

Dibromofluoromethane

Concen: 51.105 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.03 min

Lab File: VD063438.D

Acq: 8 Aug 2019 15:09

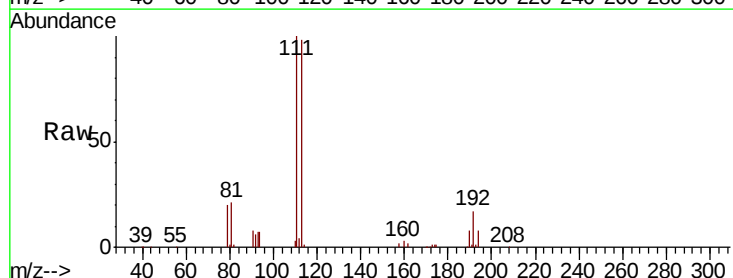
Tgt Ion:113 Resp: 546267

Ion Ratio Lower Upper

113 100

111 102.5 83.2 124.8

192 17.0 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

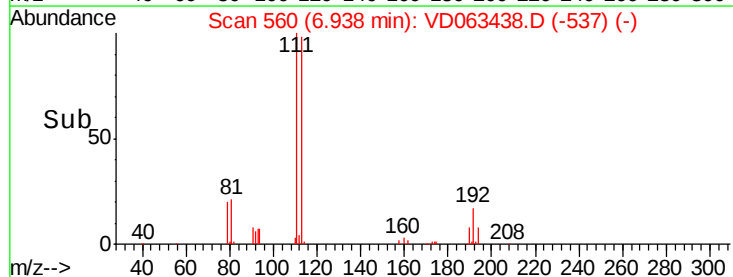
100000

50000

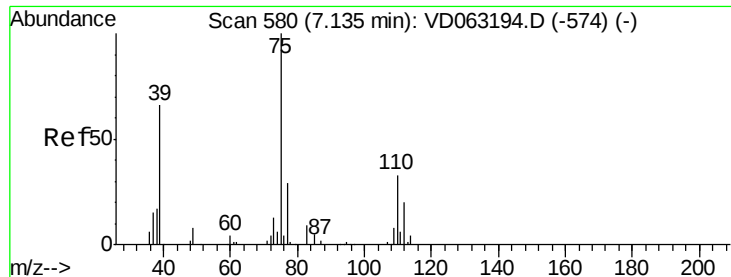
0

6.94

6.80 6.90 7.00 7.10



Time-->



#36

1,1-Dichloropropene

Concen: 5.608 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.09 min

Lab File: VD063438.D

Acq: 8 Aug 2019 15:09

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EO-01-080719-B

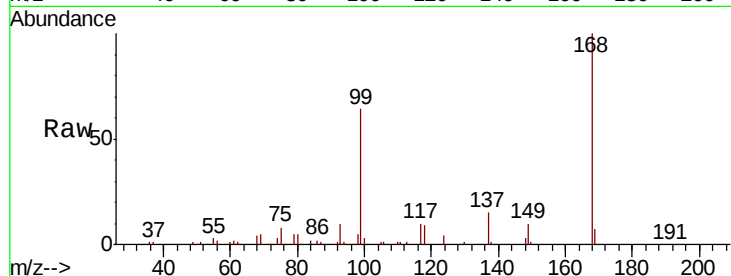
Tgt Ion: 75 Resp: 64079

Ion Ratio Lower Upper

75 100

110 10.5 16.1 48.2#

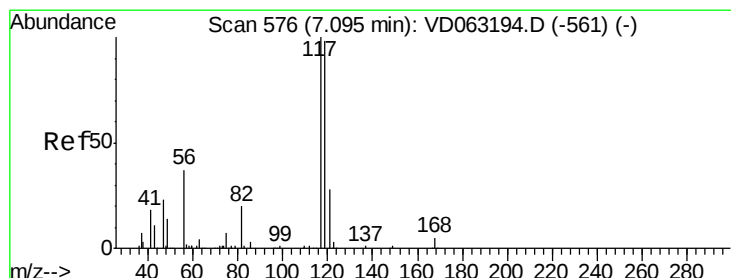
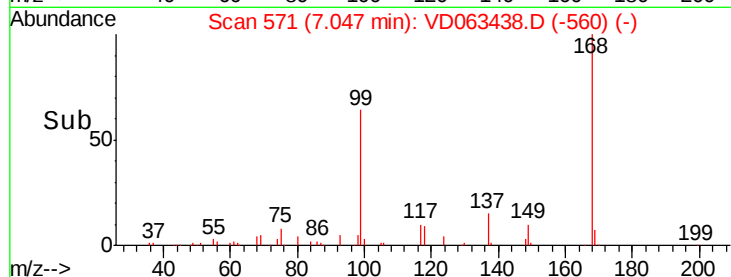
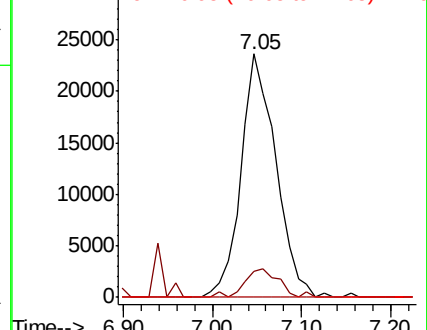
77 0.0 22.7 34.1#



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: 5.337 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD063438.D

Acq: 8 Aug 2019 15:09

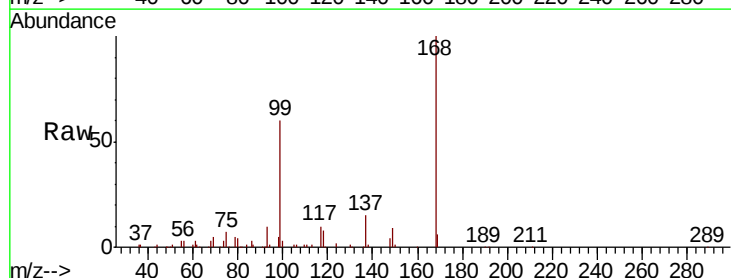
Tgt Ion: 117 Resp: 91796

Ion Ratio Lower Upper

117 100

119 4.7 78.2 117.2#

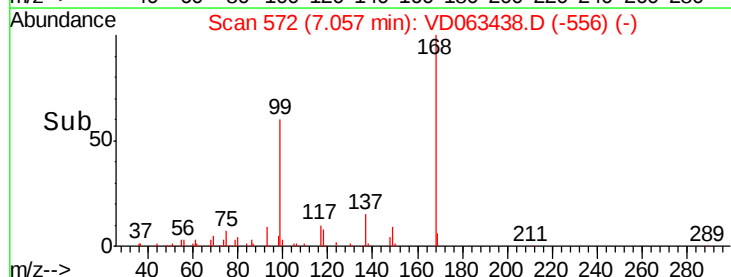
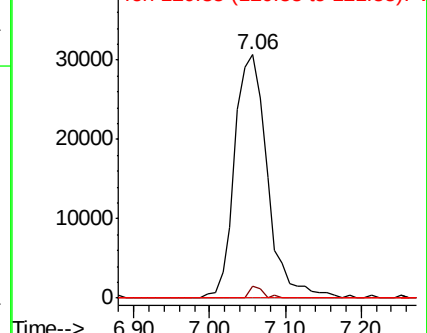
121 0.0 22.1 33.1#

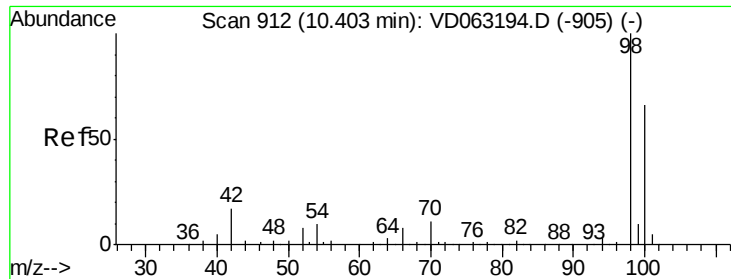


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

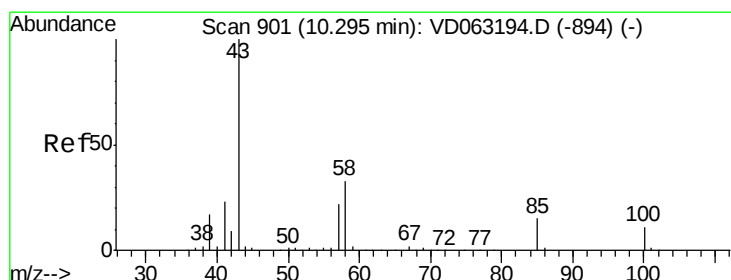
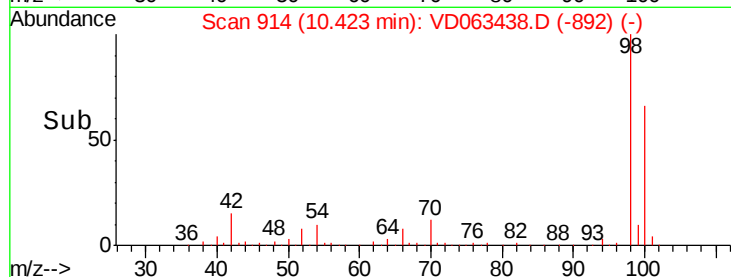
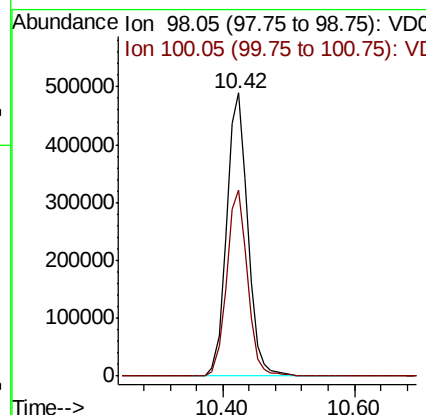
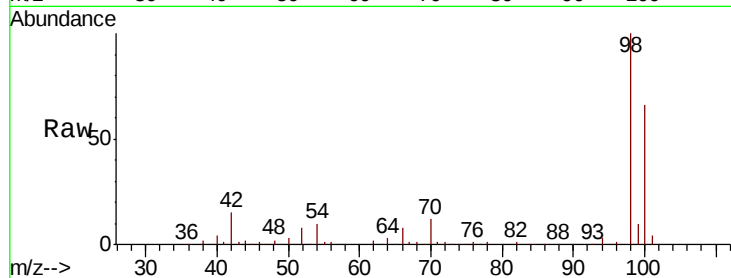




#50
Toluene-d8
Concen: 45.898 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD063438.D
Acq: 8 Aug 2019 15:09

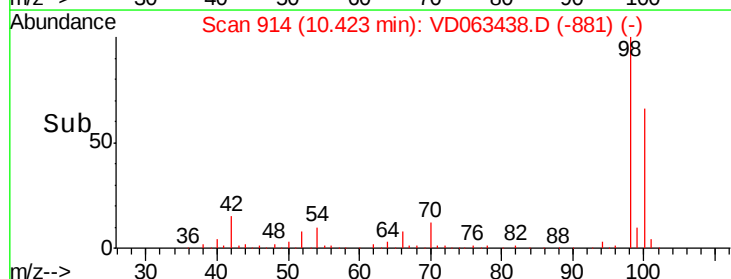
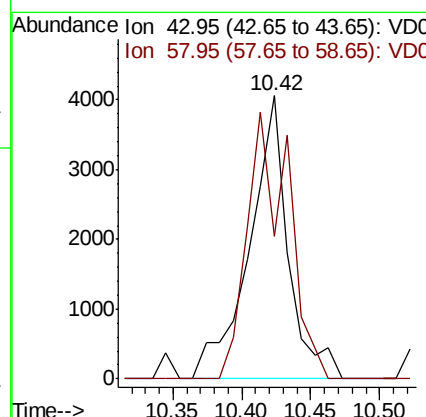
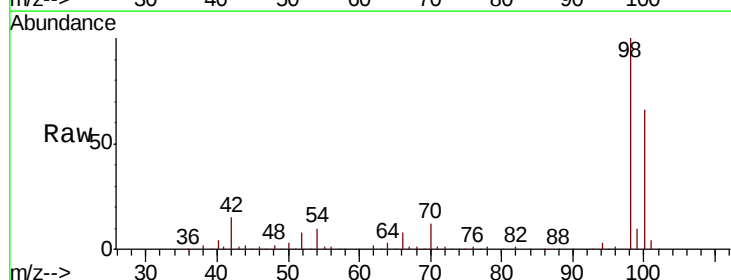
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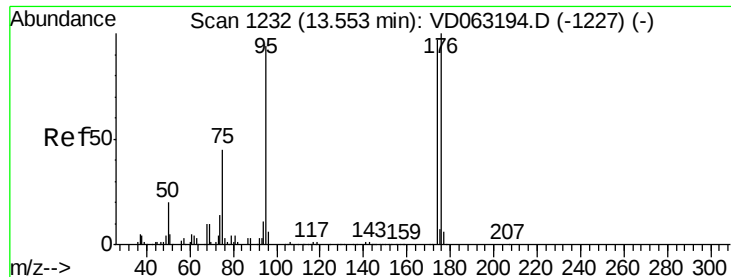
Tgt Ion: 98 Resp: 1097982
Ion Ratio Lower Upper
98 100
100 65.8 53.2 79.8



#51
4-Methyl-2-Pentanone
Concen: 1.800 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.13 min
Lab File: VD063438.D
Acq: 8 Aug 2019 15:09

Tgt Ion: 43 Resp: 8026
Ion Ratio Lower Upper
43 100
58 50.5 26.2 39.2#

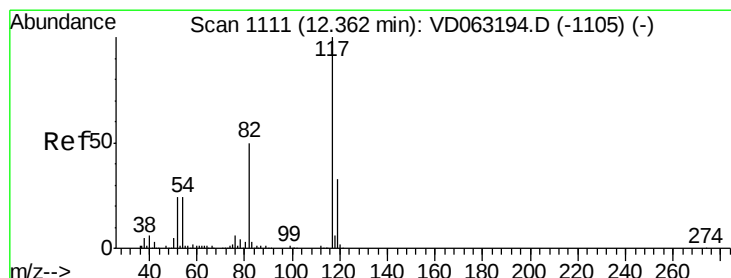
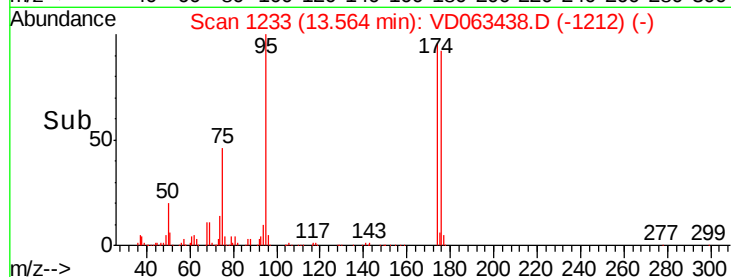
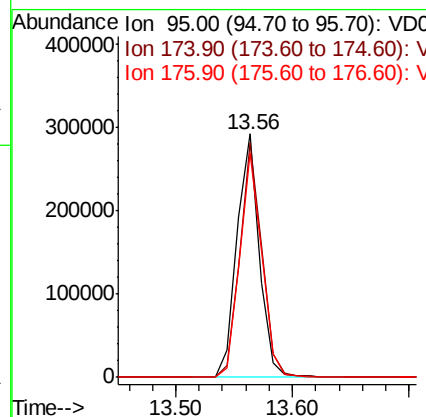
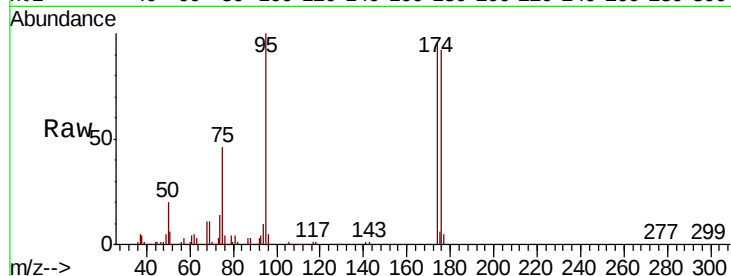




#62
4-Bromofluorobenzene
Concen: 35.576 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD063438.D
Acq: 8 Aug 2019 15:09

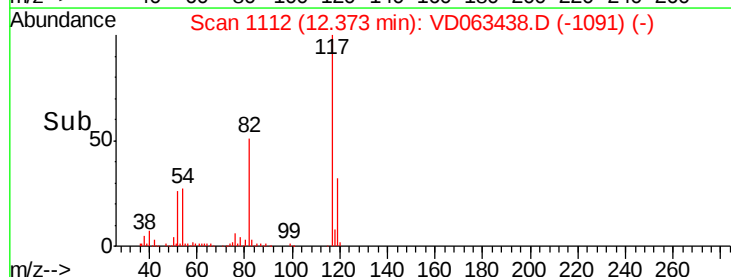
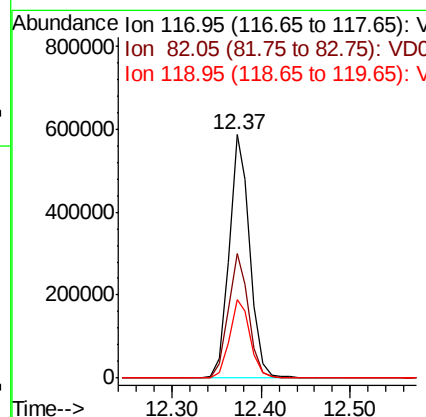
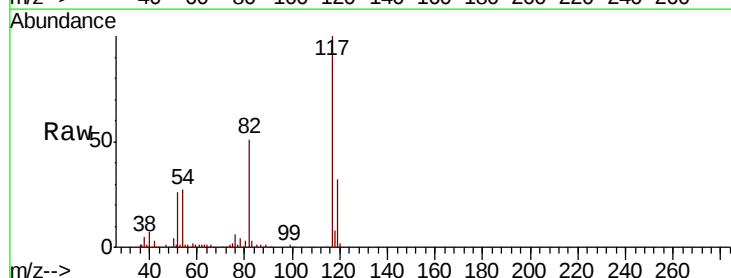
Instrument :
MSVOA_D
ClientSampleId :
EO-01-080719-B

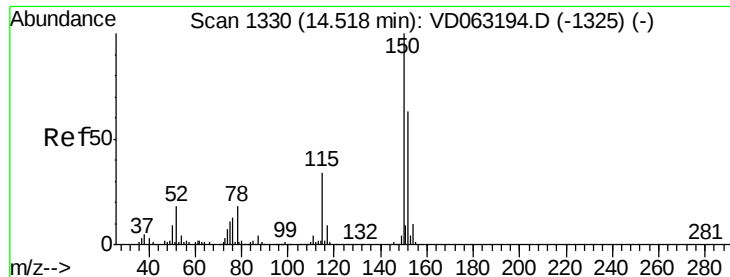
Tgt Ion	Ratio	Lower	Upper
95	100		
174	96.5	0.0	205.4
176	92.2	0.0	211.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063438.D
Acq: 8 Aug 2019 15:09

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.0	40.1	60.1
119	32.5	26.5	39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD063438.D

Acq: 8 Aug 2019 15:09

Instrument :

MSVOA_D

ClientSampleId :

EO-01-080719-B

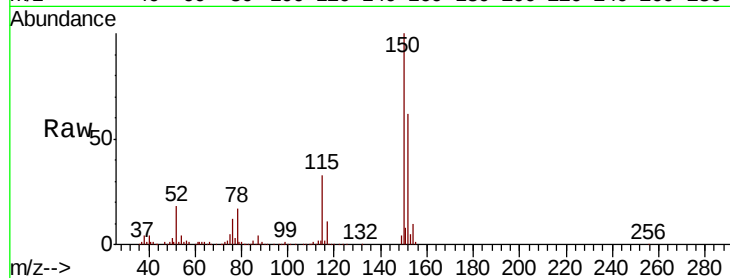
Tgt Ion:152 Resp: 370449

Ion Ratio Lower Upper

152 100

115 52.9 27.5 82.4

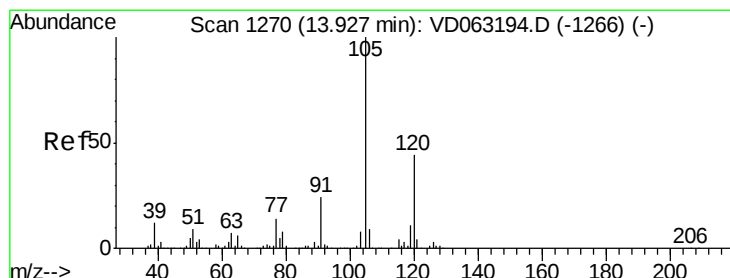
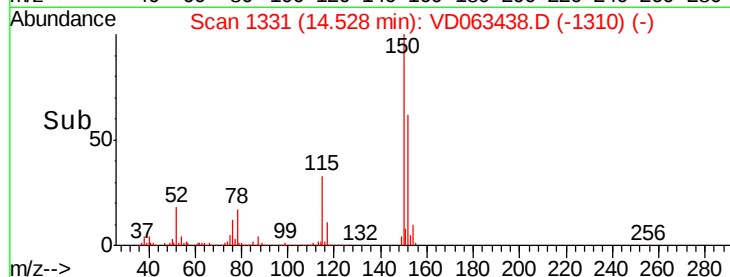
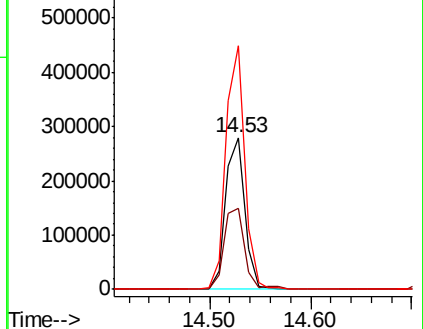
150 160.2 0.0 320.6



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



#80

1,3,5-Trimethylbenzene

Concen: 1.991 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VD063438.D

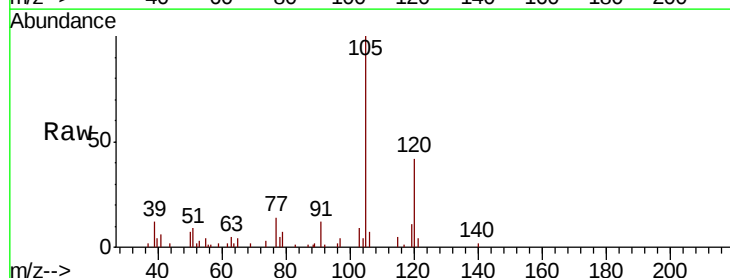
Acq: 8 Aug 2019 15:09

Tgt Ion:105 Resp: 39918

Ion Ratio Lower Upper

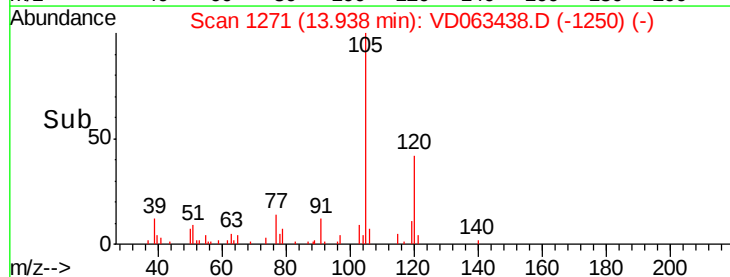
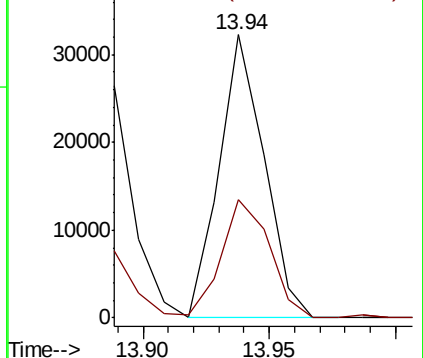
105 100

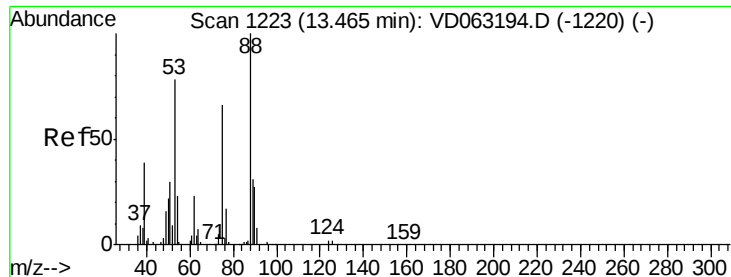
120 41.6 22.1 66.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 151.075 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.10 min

Lab File: VD063438.D

Acq: 8 Aug 2019 15:09

Instrument :

MSVOA_D

ClientSampleId :

EO-01-080719-B

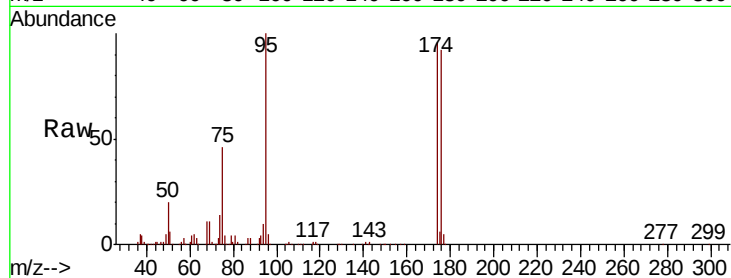
Tgt Ion: 75 Resp: 186662

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

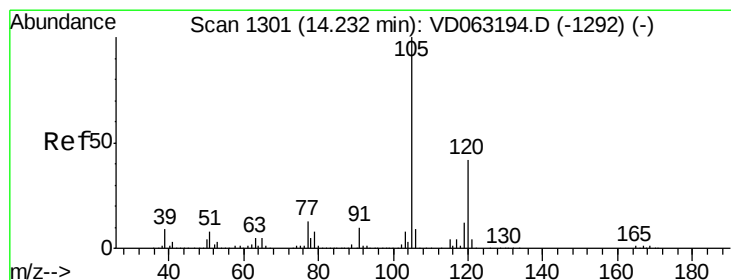
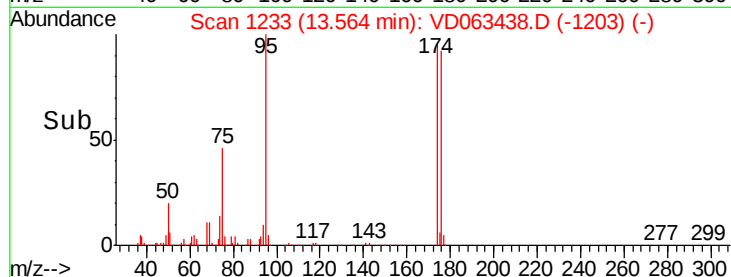
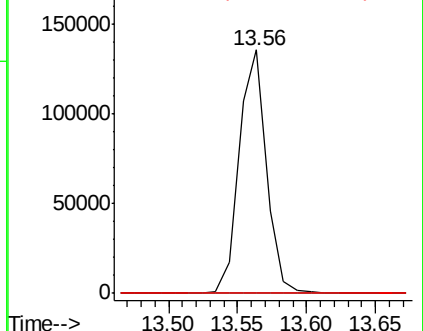
89 0.0 37.4 56.0#



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



#84

1,2,4-Trimethylbenzene

Concen: 9.152 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD063438.D

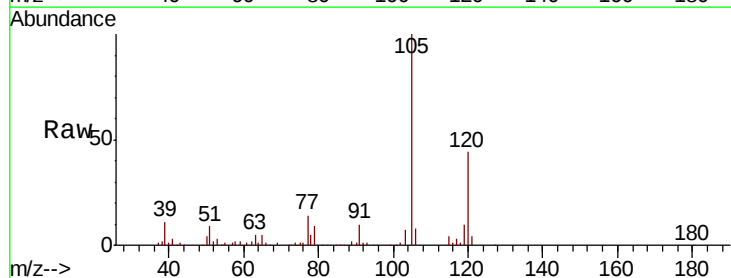
Acq: 8 Aug 2019 15:09

Tgt Ion: 105 Resp: 189830

Ion Ratio Lower Upper

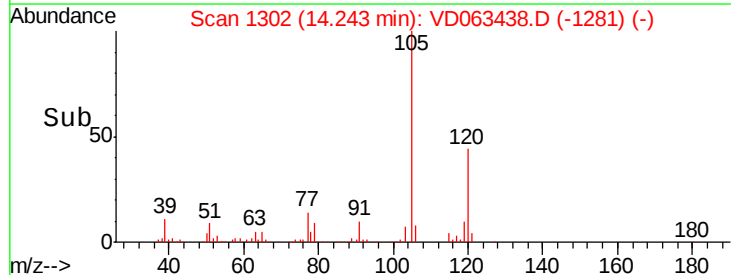
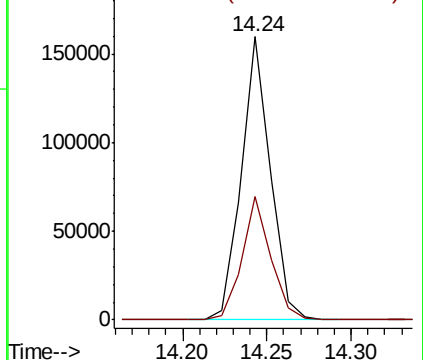
105 100

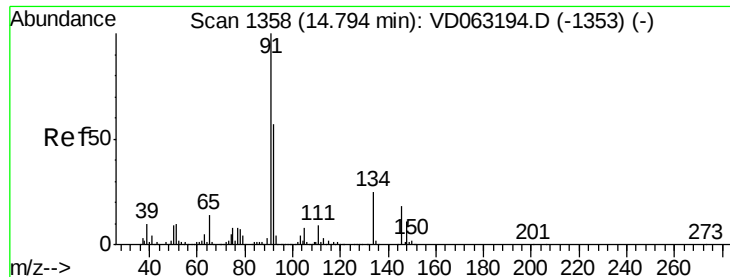
120 43.8 20.9 62.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#89

n-Butylbenzene

Concen: 2.910 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD063438.D

Acq: 8 Aug 2019 15:09

Instrument :

MSVOA_D

ClientSampleId :

EO-01-080719-B

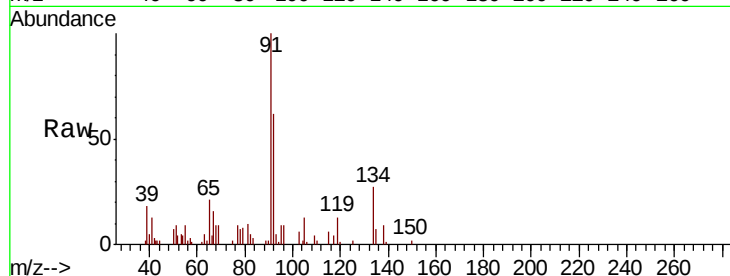
Tgt Ion: 91 Resp: 57870

Ion Ratio Lower Upper

91 100

92 61.9 28.3 85.0

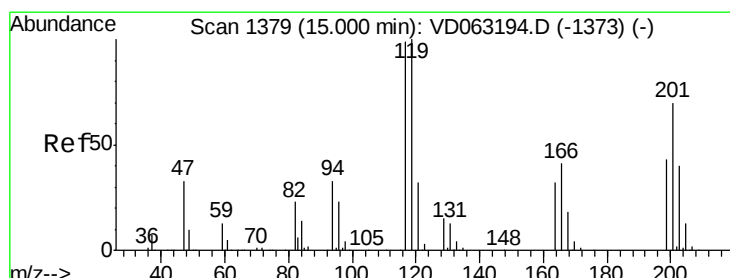
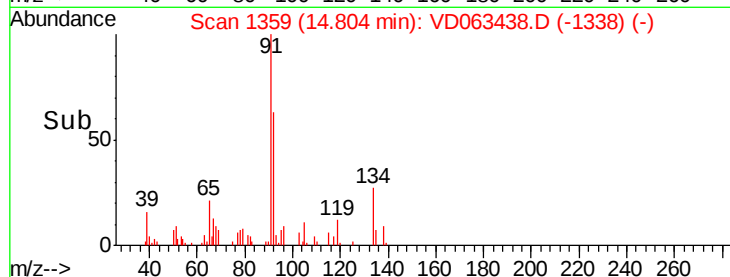
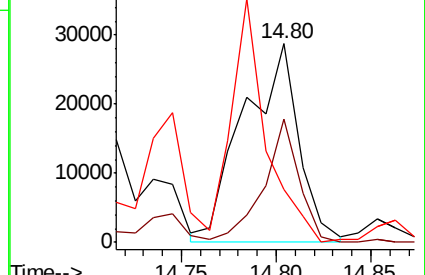
134 26.9 12.3 36.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 2.644 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. 0.01 min

Lab File: VD063438.D

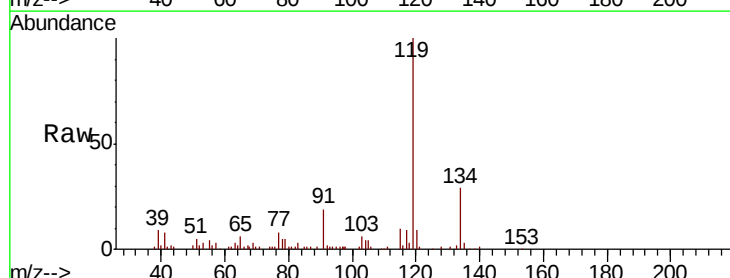
Acq: 8 Aug 2019 15:09

Tgt Ion: 117 Resp: 15859

Ion Ratio Lower Upper

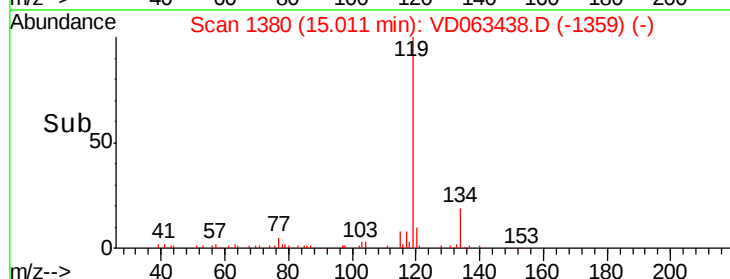
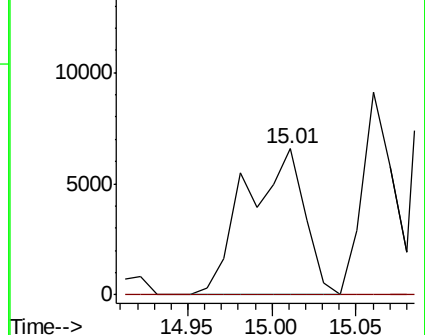
117 100

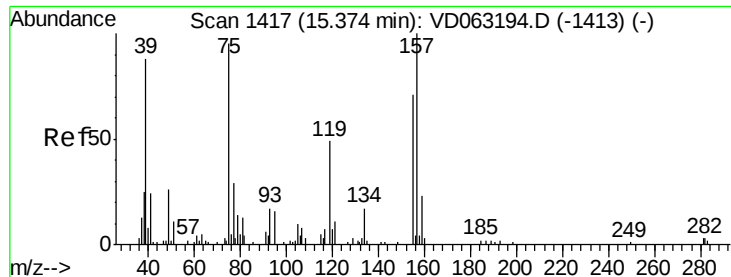
201 0.0 35.2 105.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

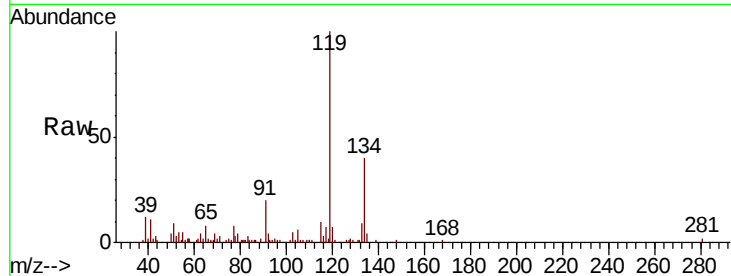




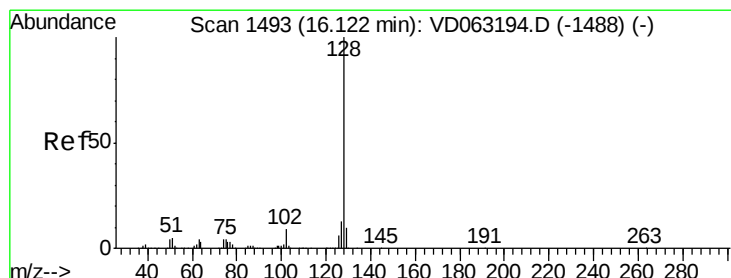
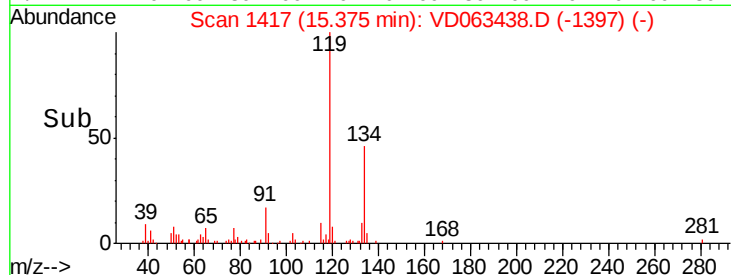
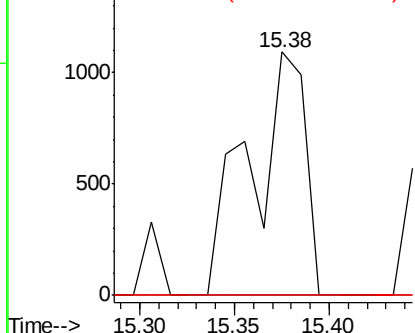
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.726 ug/l
 RT: 15.38 min Scan# 1417
 Delta R.T. 0.00 min
 Lab File: VD063438.D
 Acq: 8 Aug 2019 15:09

Instrument :
 MSVOA_D
 ClientSampleId :
 EO-01-080719-B

Tgt Ion: 75 Resp: 2193
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 111.0#
 157 0.0 52.4 157.2#

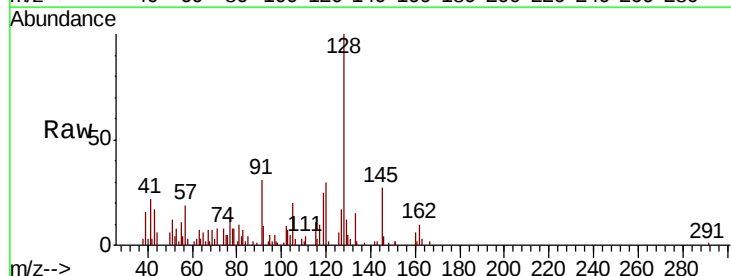


Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V



#95
 Naphthalene
 Concen: 2.394 ug/l
 RT: 16.13 min Scan# 1494
 Delta R.T. 0.01 min
 Lab File: VD063438.D
 Acq: 8 Aug 2019 15:09

Tgt Ion: 128 Resp: 27432
 Ion Ratio Lower Upper
 128 100
 127 17.0 10.2 15.4#
 129 12.2 7.8 11.8#



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

