

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080819\
 Data File : VD063459.D
 Acq On : 9 Aug 2019 2:30
 Operator : JC/SY
 Sample : K4223-26
 Misc : 3.79g/5ml/MSVOA_D/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-13

Quant Time: Aug 09 07:04:03 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	866777	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	1112225	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	628635	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	186955	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	407161	42.33	ug/l	0.02
Spiked Amount 50.000			Recovery =	84.66%		
35) Dibromofluoromethane	6.94	113	379072	39.92	ug/l	0.03
Spiked Amount 50.000			Recovery =	79.84%		
50) Toluene-d8	10.42	98	677569	31.88	ug/l	0.02
Spiked Amount 50.000			Recovery =	63.76%		
62) 4-Bromofluorobenzene	13.56	95	198503	20.50	ug/l	0.01
Spiked Amount 50.000			Recovery =	41.00%		

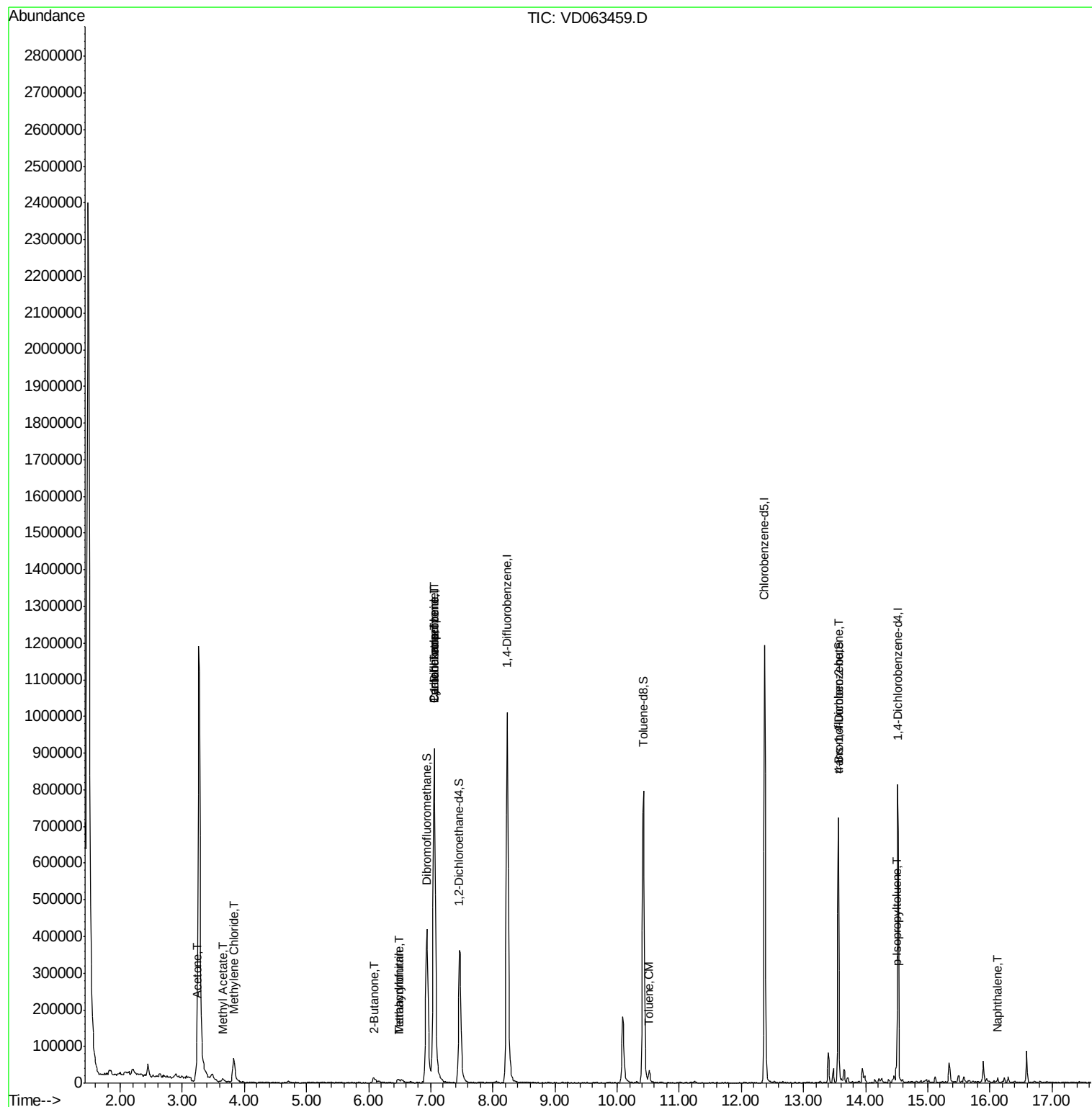
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.23	43	93338	49.809	ug/l	99
18) Methyl Acetate	3.65	43	11181	3.106	ug/l	97
20) Methylene Chloride	3.83	84	43776	5.779	ug/l	94
25) 2-Butanone	6.08	43	26273	13.970	ug/l #	82
29) Tetrahydrofuran	6.49	42	8897	9.992	ug/l	89
31) Cyclohexane	7.05	56	18666	2.179	ug/l #	10
36) 1,1-Dichloropropene	7.06	75	67366	6.637	ug/l #	53
38) Carbon Tetrachloride	7.06	117	80719	5.282	ug/l #	15
41) Methacrylonitrile	6.48	41	8379	1.536	ug/l #	91
52) Toluene	10.51	92	15454	1.092	ug/l	81
81) trans-1,4-Dichloro-2-buten	13.56	75	87492	140.313	ug/l #	3
86) p-Isopropyltoluene	14.50	119	18248	1.570	ug/l	95
95) Naphthalene	16.12	128	7955	1.376	ug/l	95

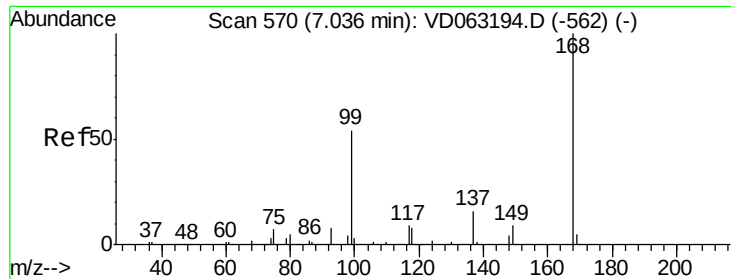
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD063459.D

Acq: 9 Aug 2019 2:30

Instrument :

MSVOA_D

ClientSampleId :

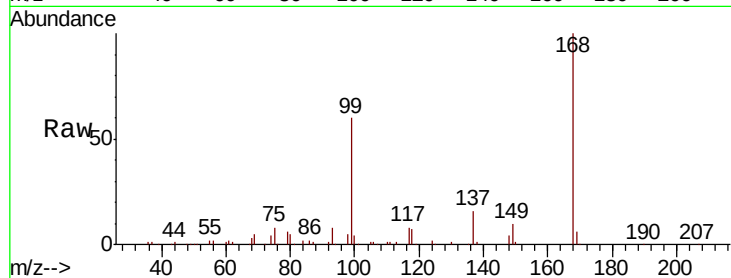
SP-13

Tgt Ion:168 Resp: 866777

Ion Ratio Lower Upper

168 100

99 60.0 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

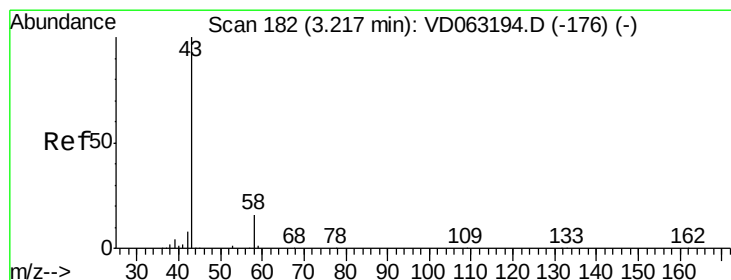
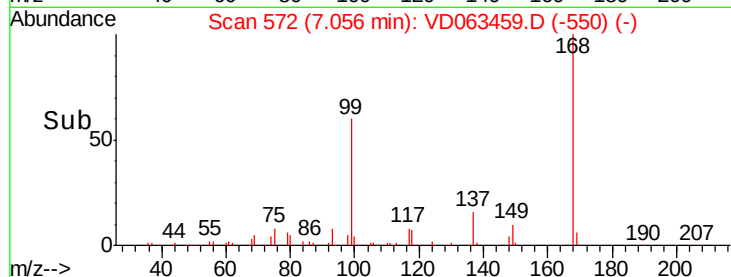
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 49.809 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063459.D

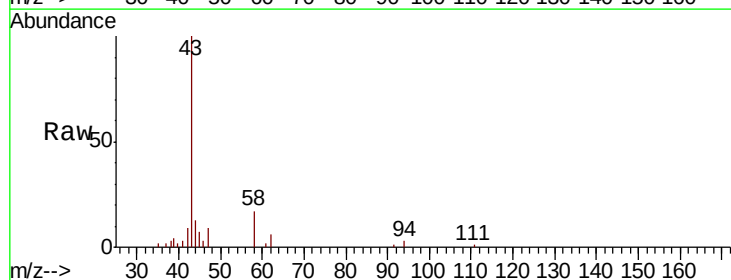
Acq: 9 Aug 2019 2:30

Tgt Ion: 43 Resp: 93338

Ion Ratio Lower Upper

43 100

58 16.6 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.23

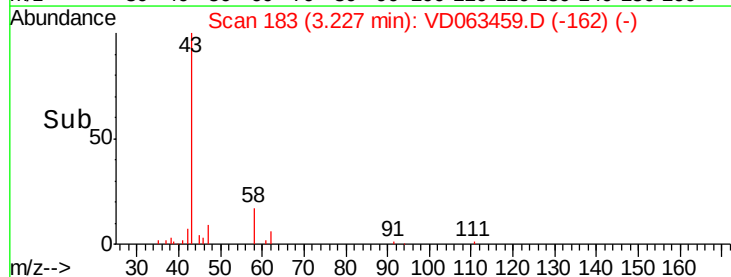
30000

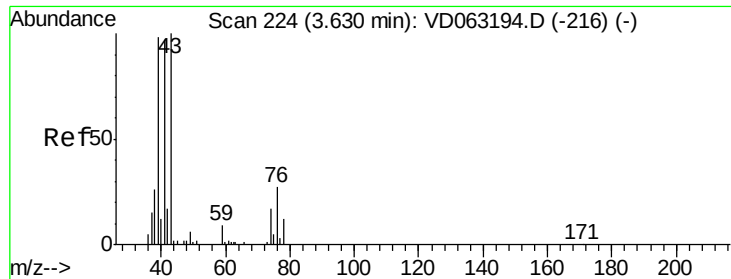
20000

10000

0

Time-->

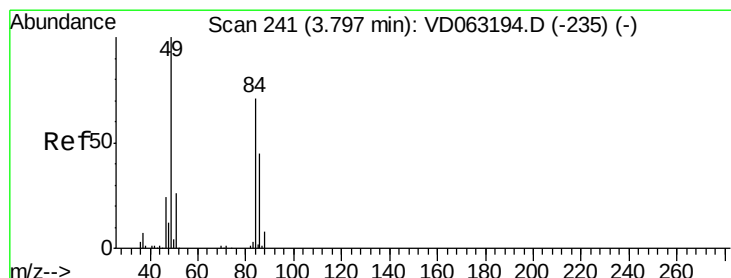
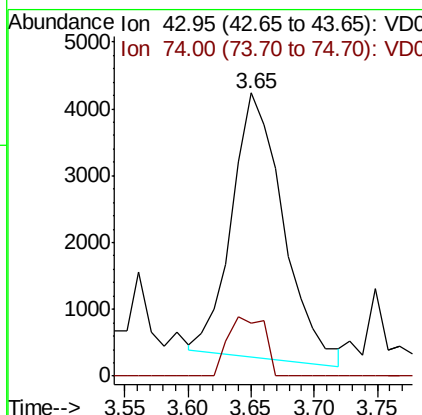
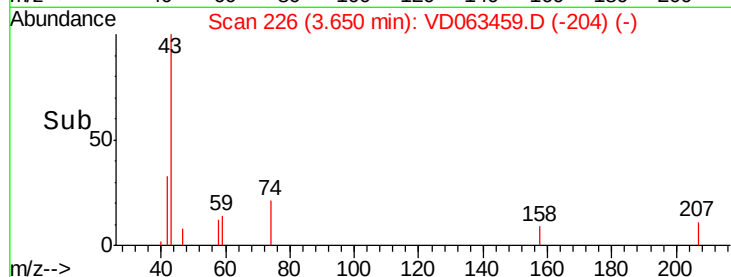
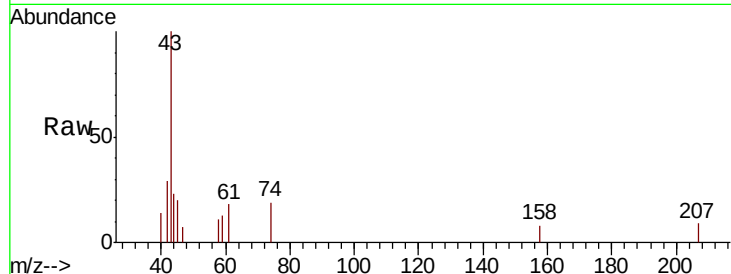




#18
Methyl Acetate
Concen: 3.106 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.02 min
Lab File: VD063459.D
Acq: 9 Aug 2019 2:30

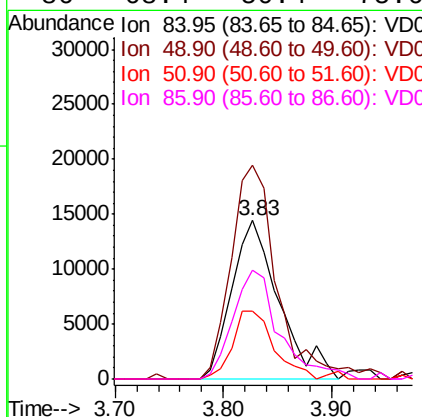
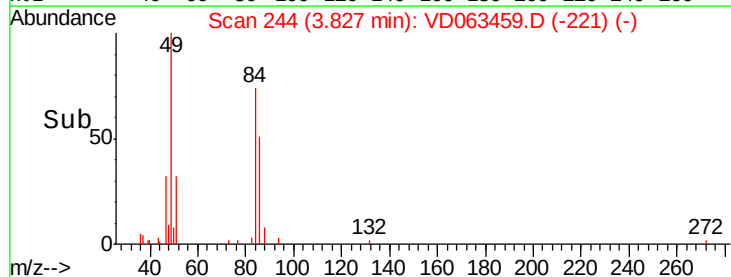
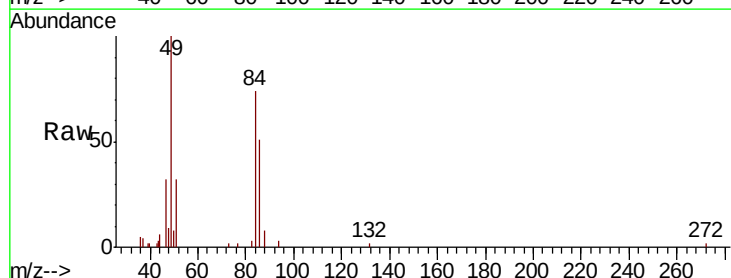
Instrument :
MSVOA_D
ClientSampleID :
SP-13

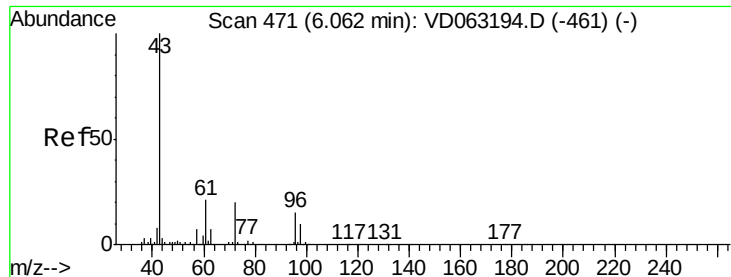
Tgt Ion: 43 Resp: 11181
Ion Ratio Lower Upper
43 100
74 18.7 13.8 20.8



#20
Methylene Chloride
Concen: 5.779 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.03 min
Lab File: VD063459.D
Acq: 9 Aug 2019 2:30

Tgt Ion: 84 Resp: 43776
Ion Ratio Lower Upper
84 100
49 135.0 112.5 168.7
51 42.5 29.6 44.4
86 68.4 50.4 75.6





#25

2-Butanone

Concen: 13.970 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.02 min

Lab File: VD063459.D

Acq: 9 Aug 2019 2:30

Instrument :

MSVOA_D

ClientSampleId :

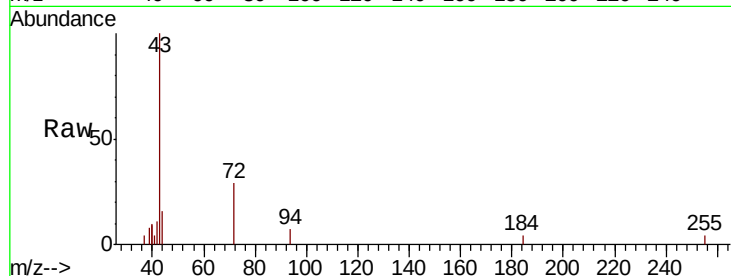
SP-13

Tgt Ion: 43 Resp: 26273

Ion Ratio Lower Upper

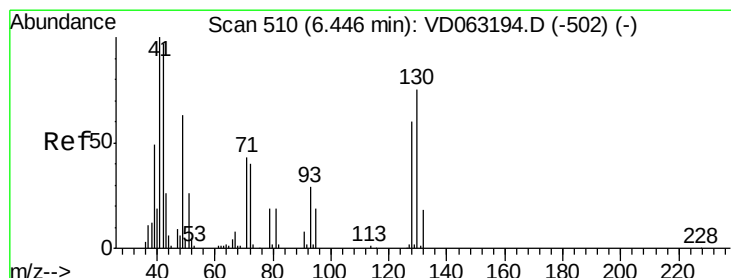
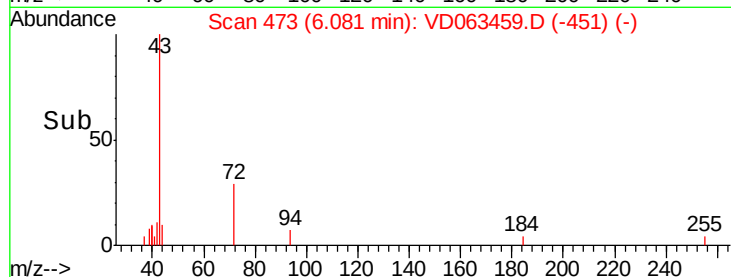
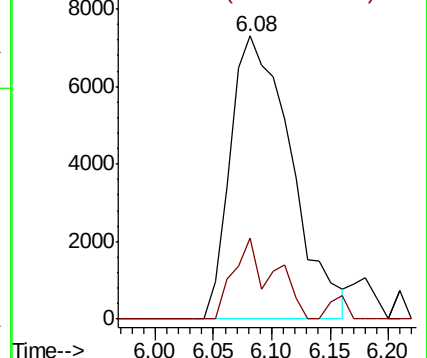
43 100

72 28.9 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: 9.992 ug/l

RT: 6.49 min Scan# 514

Delta R.T. 0.04 min

Lab File: VD063459.D

Acq: 9 Aug 2019 2:30

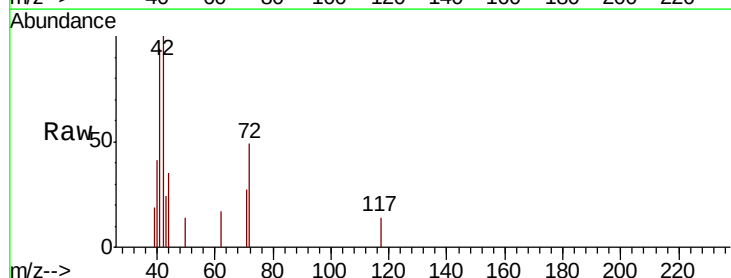
Tgt Ion: 42 Resp: 8897

Ion Ratio Lower Upper

42 100

72 35.0 33.4 50.2

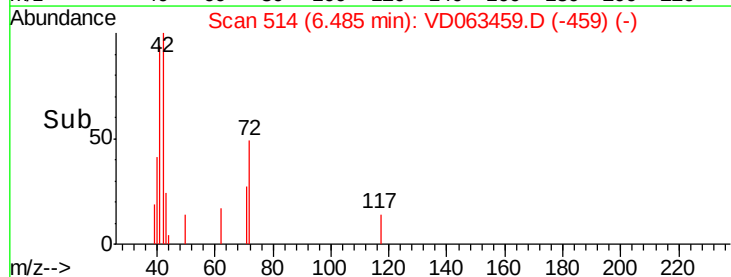
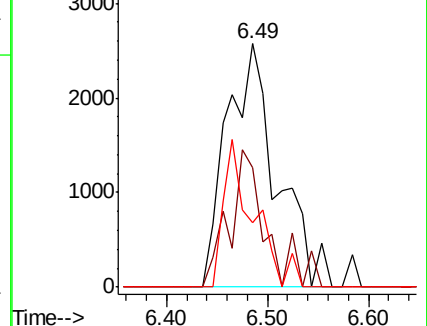
71 36.8 35.7 53.5

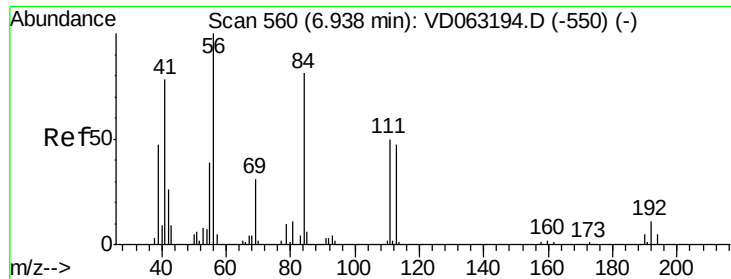


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

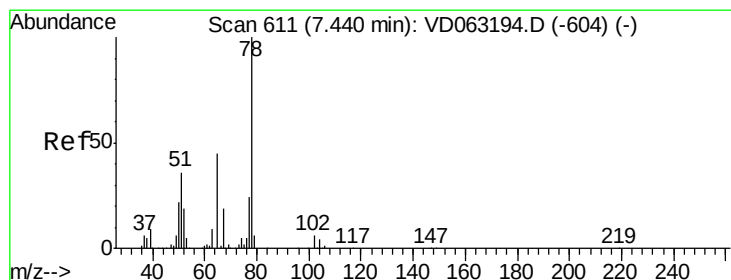
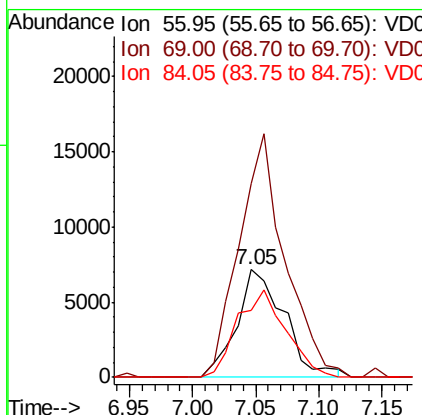
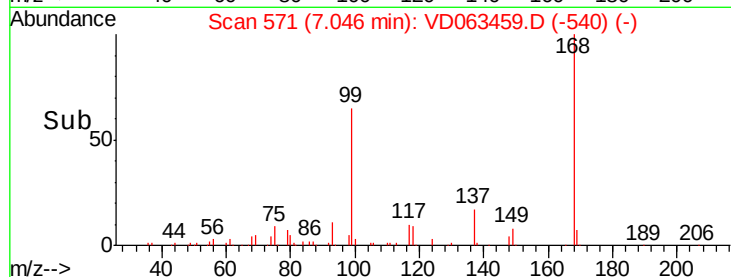
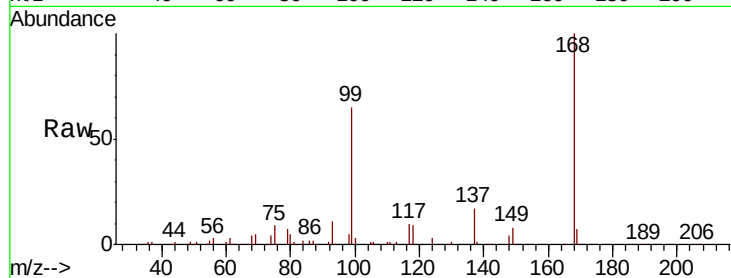




#31
Cyclohexane
Concen: 2.179 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.11 min
Lab File: VD063459.D
Acq: 9 Aug 2019 2:30

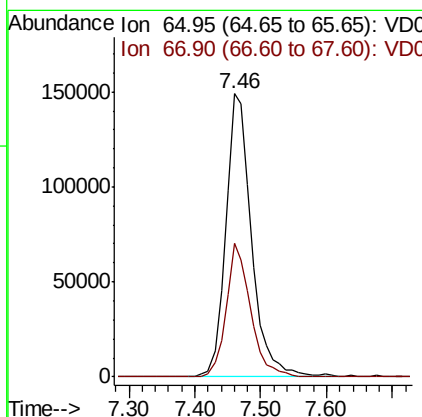
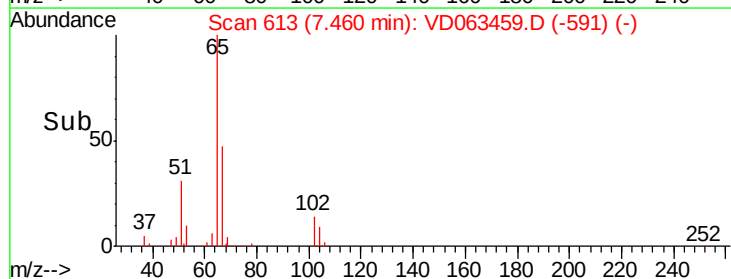
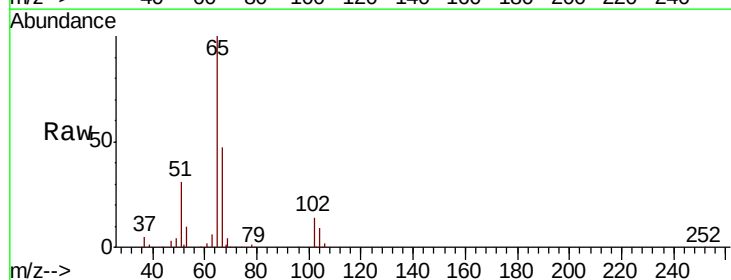
Instrument :
MSVOA_D
ClientSampleId :
SP-13

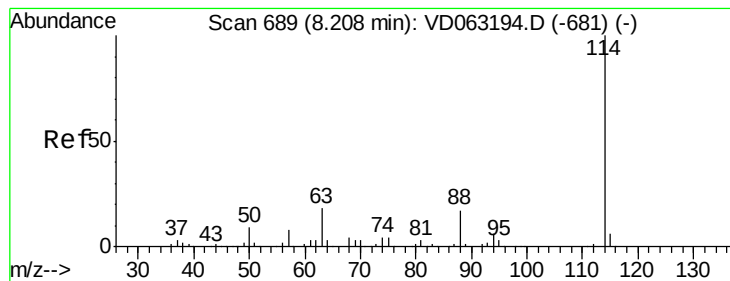
Tgt Ion: 56 Resp: 18666
Ion Ratio Lower Upper
56 100
69 179.4 24.5 36.7#
84 62.5 64.9 97.3#



#33
1,2-Dichloroethane-d4
Concen: 42.334 ug/l
RT: 7.46 min Scan# 613
Delta R.T. 0.02 min
Lab File: VD063459.D
Acq: 9 Aug 2019 2:30

Tgt Ion: 65 Resp: 407161
Ion Ratio Lower Upper
65 100
67 47.4 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: VD063459.D

Acq: 9 Aug 2019 2:30

Instrument :

MSVOA_D

ClientSampleID :

SP-13

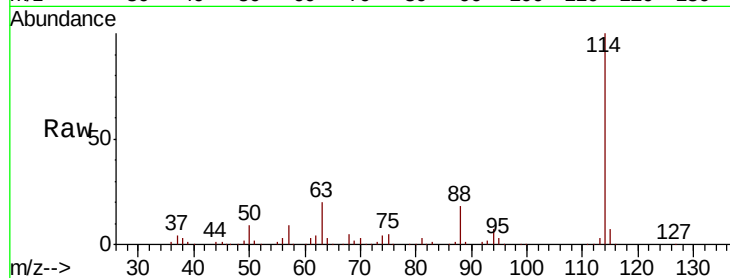
Tgt Ion:114 Resp: 1112225

Ion Ratio Lower Upper

114 100

63 19.5 0.0 35.2

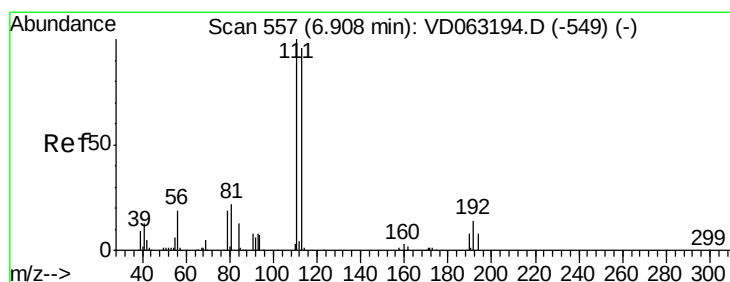
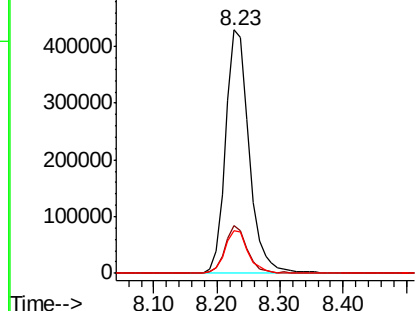
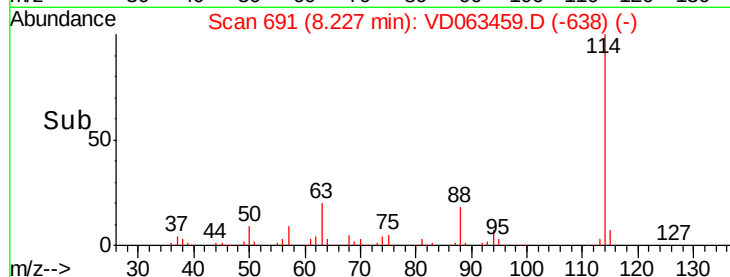
88 17.6 0.0 34.6



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



#35

Dibromofluoromethane

Concen: 39.919 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.03 min

Lab File: VD063459.D

Acq: 9 Aug 2019 2:30

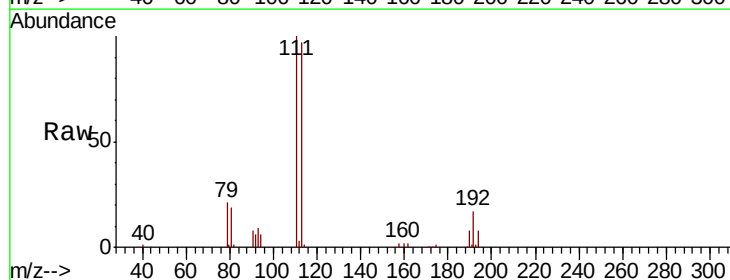
Tgt Ion:113 Resp: 379072

Ion Ratio Lower Upper

113 100

111 103.4 83.2 124.8

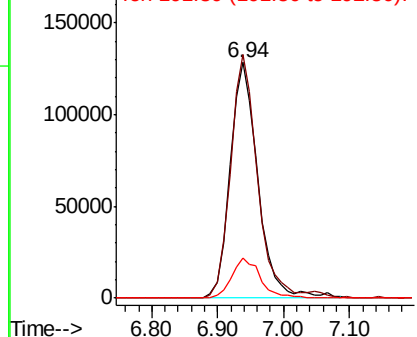
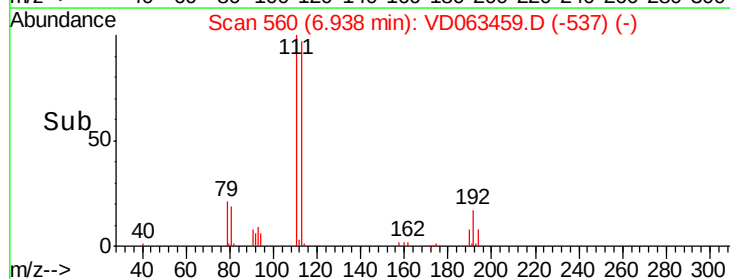
192 17.3 11.8 17.8

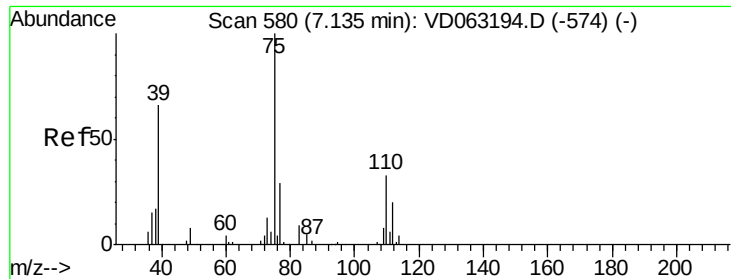


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

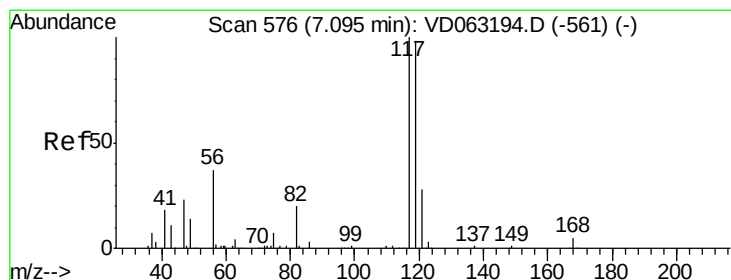
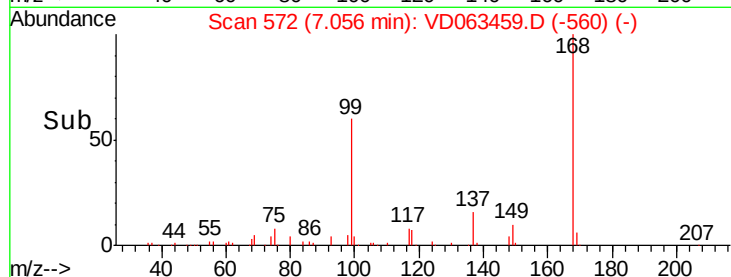
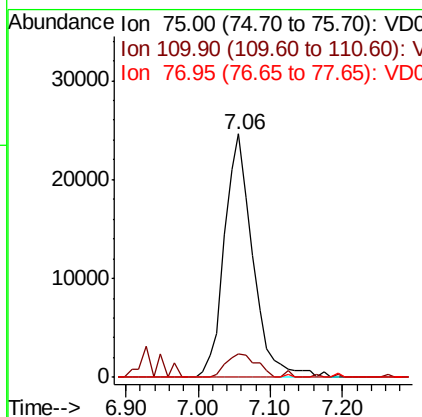
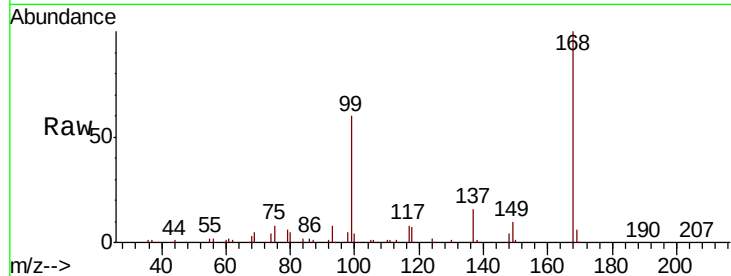




#36
 1,1-Dichloropropene
 Concen: 6.637 ug/l
 RT: 7.06 min Scan# 572
 Delta R.T. -0.08 min
 Lab File: VD063459.D
 Acq: 9 Aug 2019 2:30

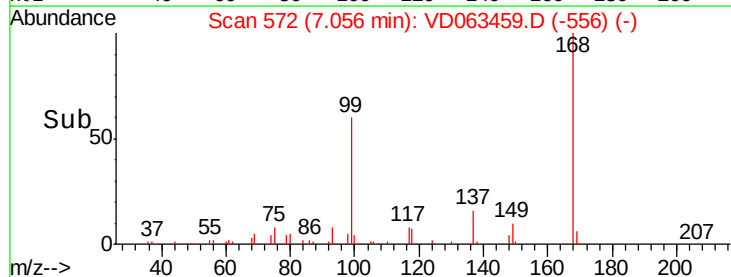
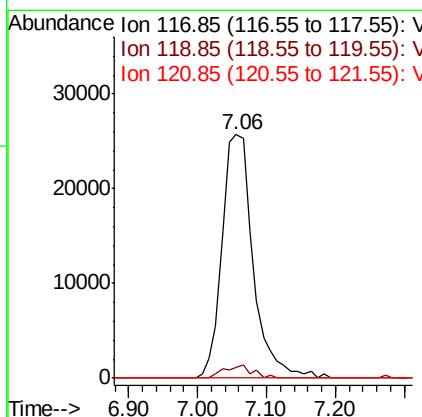
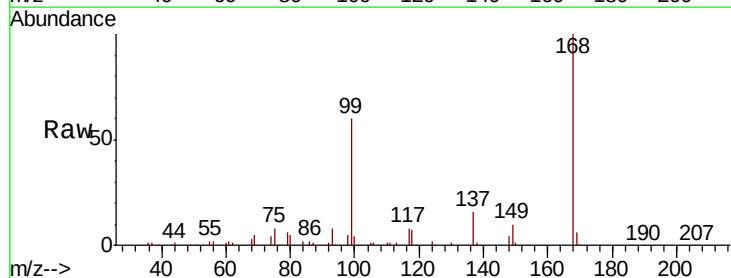
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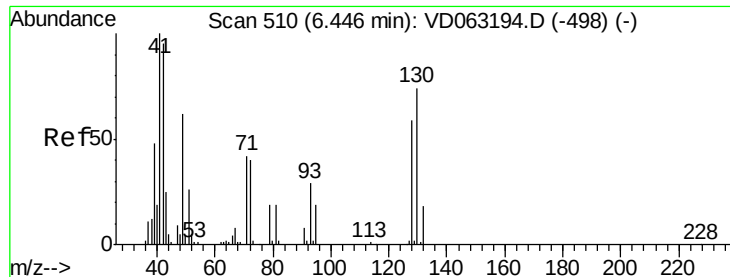
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.1	48.2#
77	0.0	22.7	34.1#



#38
 Carbon Tetrachloride
 Concen: 5.282 ug/l
 RT: 7.06 min Scan# 572
 Delta R.T. -0.04 min
 Lab File: VD063459.D
 Acq: 9 Aug 2019 2:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	78.2	117.2#
121	0.0	22.1	33.1#





#41

Methacrylonitrile

Concen: 1.536 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD063459.D

Acq: 9 Aug 2019 2:30

Instrument :

MSVOA_D

ClientSampled :

SP-13

Tgt Ion: 41 Resp: 8379

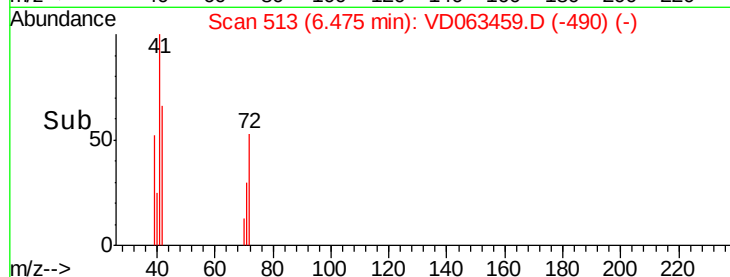
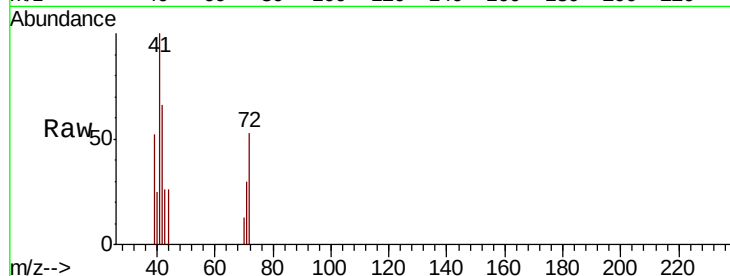
Ion Ratio Lower Upper

41 100

39 51.9 38.4 57.6

67 0.0 6.7 10.1#

52 0.0 4.3 6.5#

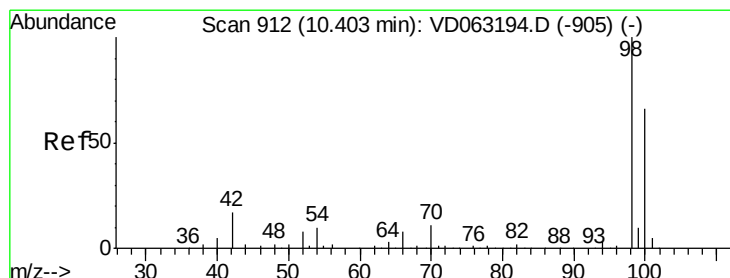
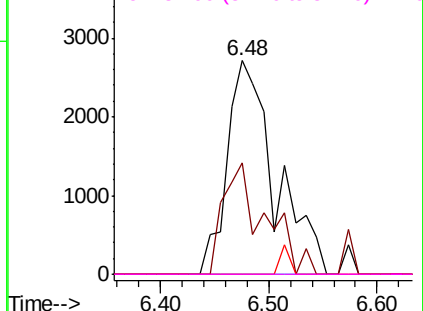


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#50

Toluene-d8

Concen: 31.883 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD063459.D

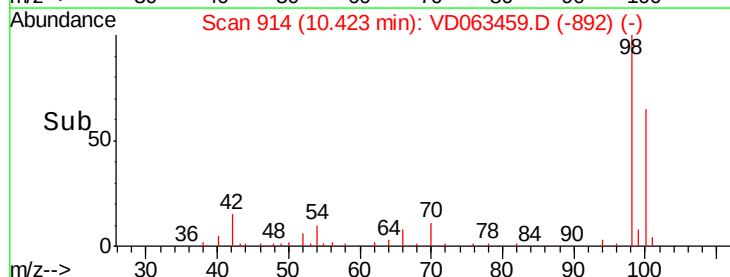
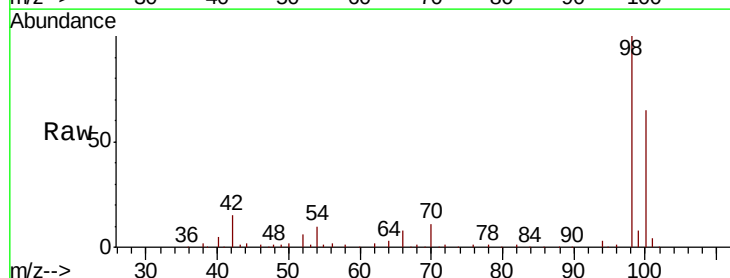
Acq: 9 Aug 2019 2:30

Tgt Ion: 98 Resp: 677569

Ion Ratio Lower Upper

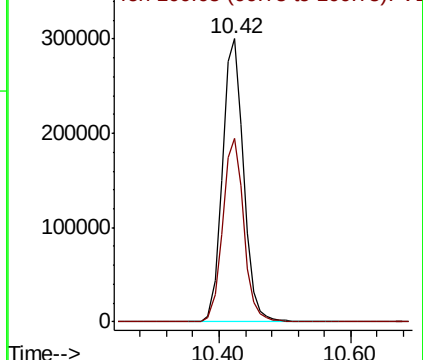
98 100

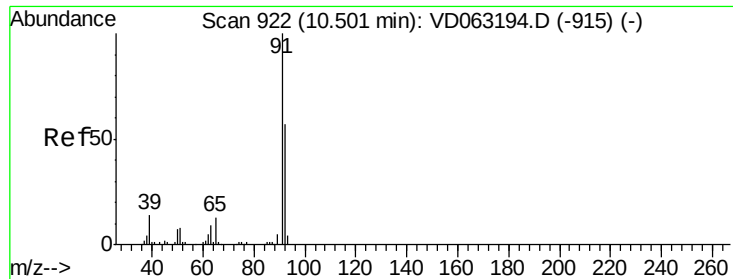
100 64.8 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#52

Toluene

Concen: 1.092 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.01 min

Lab File: VD063459.D

Acq: 9 Aug 2019 2:30

Instrument :

MSVOA_D

ClientSampleId :

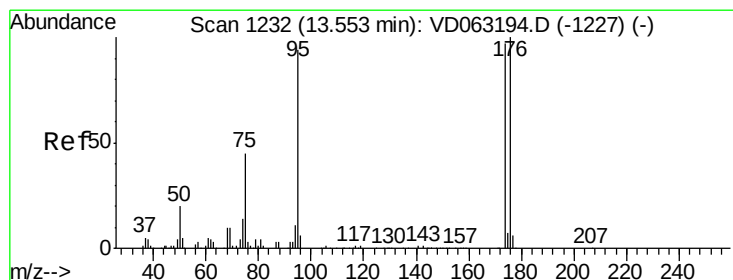
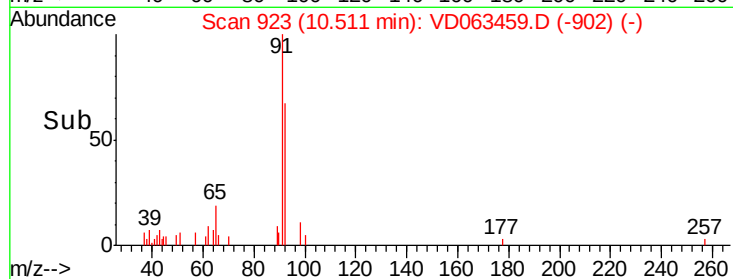
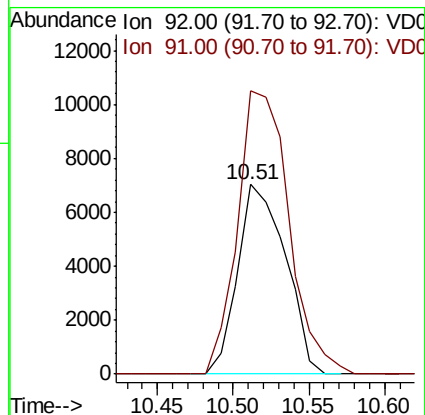
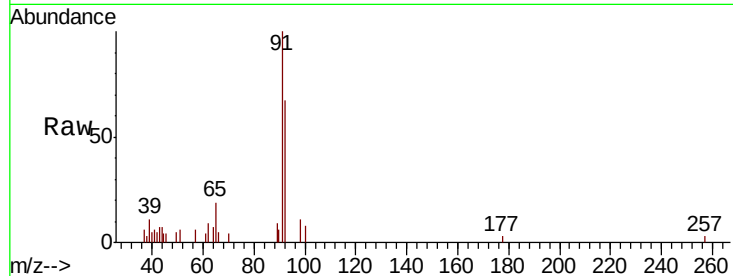
SP-13

Tgt Ion: 92 Resp: 15454

Ion Ratio Lower Upper

92 100

91 149.2 140.8 211.2



#62

4-Bromofluorobenzene

Concen: 20.497 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD063459.D

Acq: 9 Aug 2019 2:30

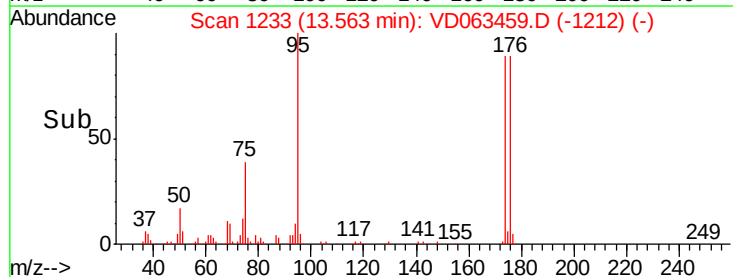
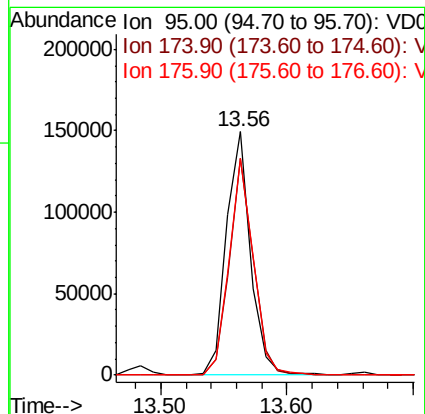
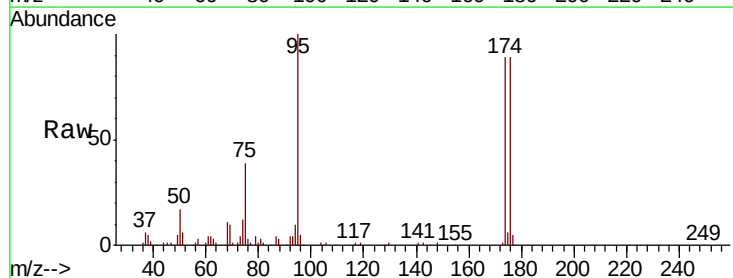
Tgt Ion: 95 Resp: 198503

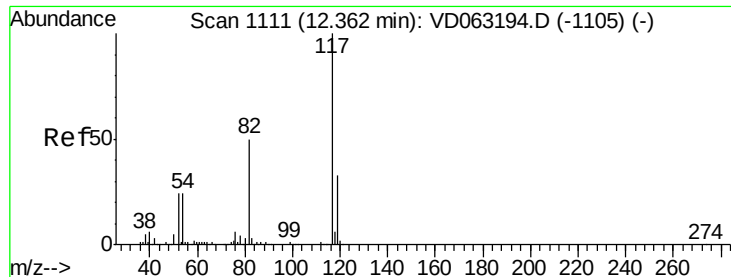
Ion Ratio Lower Upper

95 100

174 88.9 0.0 205.4

176 89.2 0.0 211.8

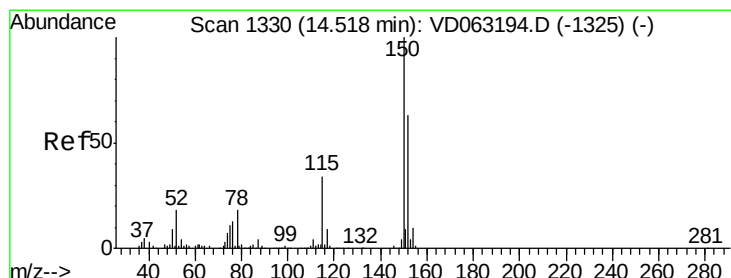
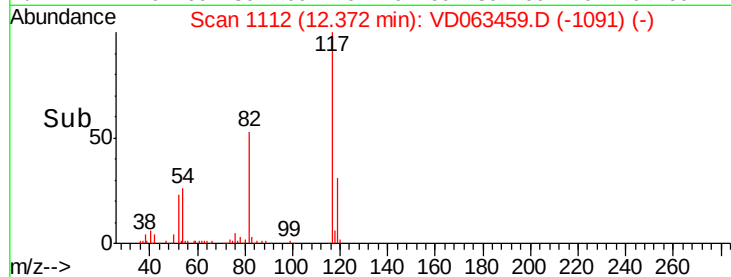
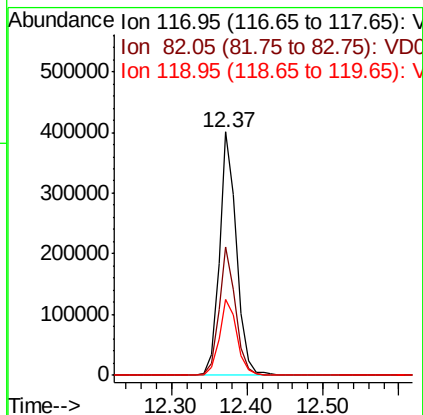
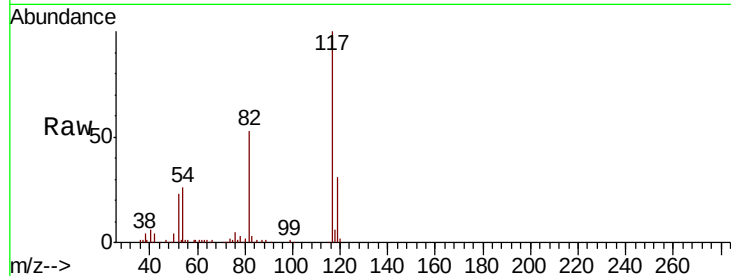




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063459.D
Acq: 9 Aug 2019 2:30

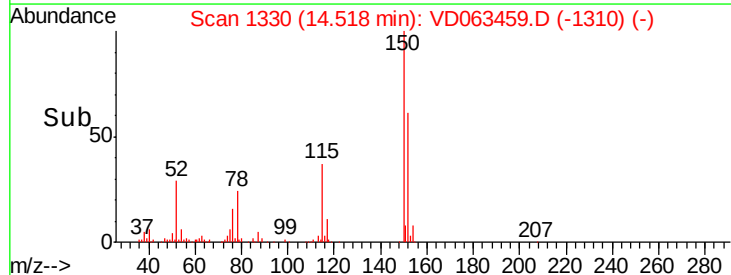
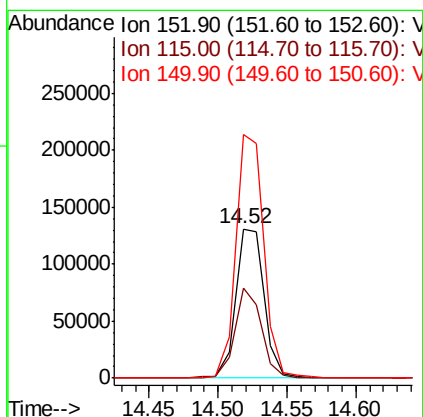
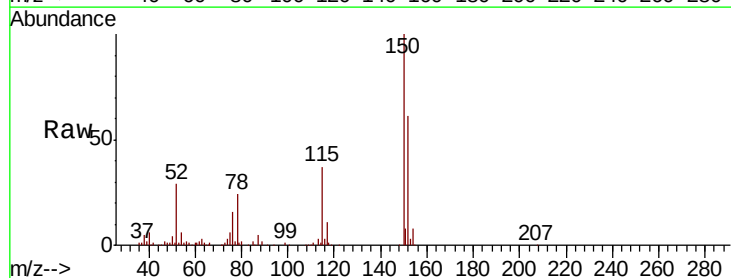
Instrument :
MSVOA_D
ClientSampled :
SP-13

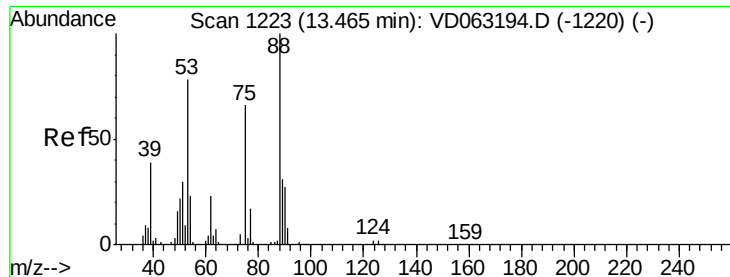
Tgt Ion:117 Resp: 628635
Ion Ratio Lower Upper
117 100
82 52.9 40.1 60.1
119 31.2 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063459.D
Acq: 9 Aug 2019 2:30

Tgt Ion:152 Resp: 186955
Ion Ratio Lower Upper
152 100
115 60.0 27.5 82.4
150 162.9 0.0 320.6





#81

trans-1,4-Dichloro-2-butene

Concen: 140.313 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.10 min

Lab File: VD063459.D

Acq: 9 Aug 2019 2:30

Instrument :

MSVOA_D

ClientSampleId :

SP-13

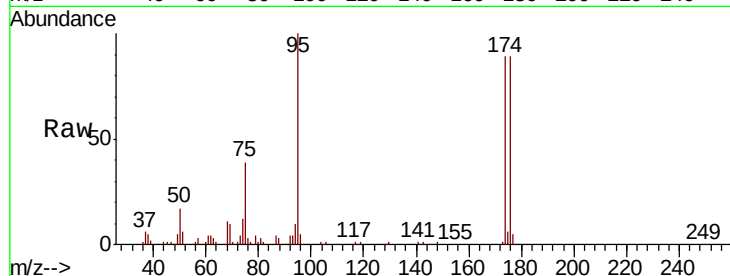
Tgt Ion: 75 Resp: 87492

Ion Ratio Lower Upper

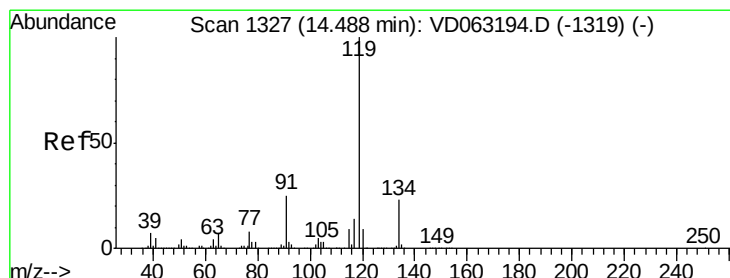
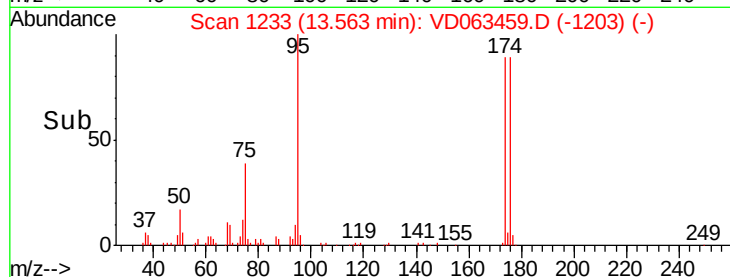
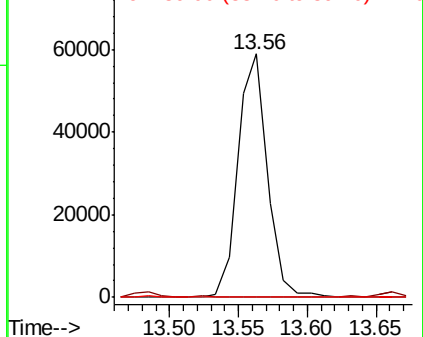
75 100

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



#86

p-Isopropyltoluene

Concen: 1.570 ug/l

RT: 14.50 min Scan# 1328

Delta R.T. 0.01 min

Lab File: VD063459.D

Acq: 9 Aug 2019 2:30

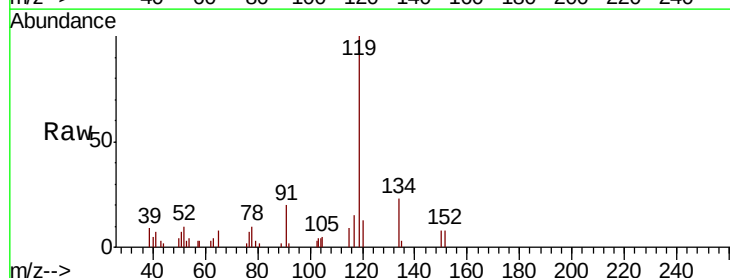
Tgt Ion: 119 Resp: 18248

Ion Ratio Lower Upper

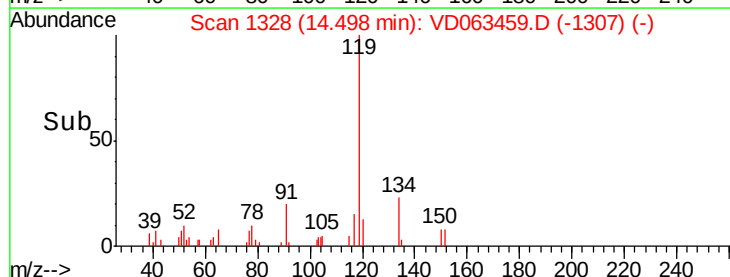
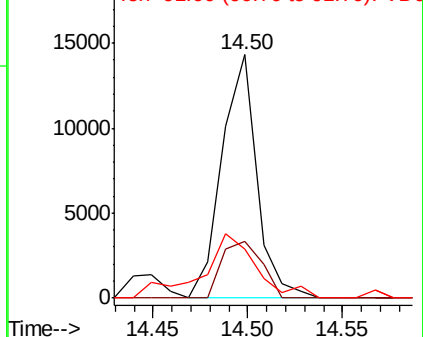
119 100

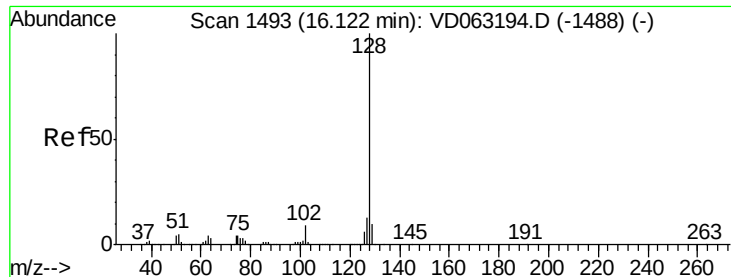
134 23.1 11.5 34.5

91 20.2 12.6 37.6



Abundance Ion 119.05 (118.75 to 119.75): VDC
Ion 134.10 (133.80 to 134.80): VDC
Ion 91.00 (90.70 to 91.70): VDC





#95
Naphthalene
Concen: 1.376 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD063459.D
Acq: 9 Aug 2019 2:30

Instrument :
MSVOA_D
ClientSampleId :
SP-13

Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.3	10.2	15.4
129	8.8	7.8	11.8

