

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102919\
 Data File : VD064094.D
 Acq On : 29 Oct 2019 17:45
 Operator : VA/SY
 Sample : K5149-07
 Misc : 7.43G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 30 08:08:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D102919S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 08:00:10 2019
 Response via : Initial Calibration

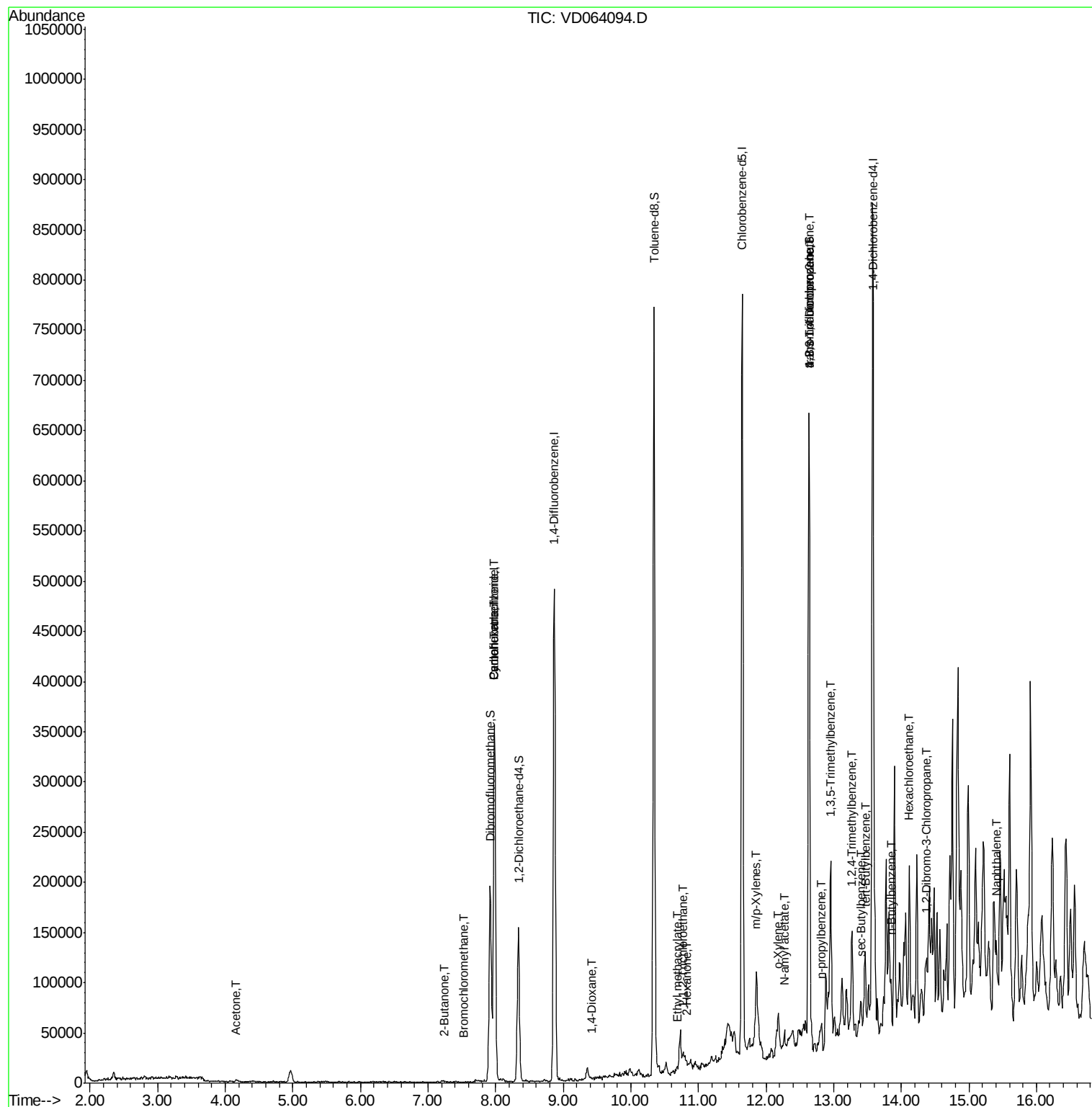
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	280172	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	449608	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	446530	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	214478	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	117723	52.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.66%	
35) Dibromofluoromethane	7.92	113	133050	48.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.20%	
50) Toluene-d8	10.34	98	537135	48.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.12%	
62) 4-Bromofluorobenzene	12.64	95	183843	50.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.26%	
Target Compounds						
					Qvalue	
16) Acetone	4.17	43	3277	7.729	ug/l #	84
20) Methylene Chloride	4.97	84	9731	Below Cal	#	86
25) 2-Butanone	7.23	43	732	1.249	ug/l #	45
28) Bromochloromethane	7.53	49	56	2.282	ug/l #	5
31) Cyclohexane	7.98	56	7126	1.719	ug/l #	67
38) Carbon Tetrachloride	7.98	117	26067	5.671	ug/l #	19
49) 1,4-Dioxane	9.42	88	66	3.596	ug/l #	1
55) 1,1,2-Trichloroethane	10.77	97	3095	1.361	ug/l #	28
56) Ethyl methacrylate	10.68	69	1353	3.479	ug/l #	63
59) 2-Hexanone	10.83	43	477	9.425	ug/l	64
68) m/p-Xylenes	11.85	106	13667	2.071	ug/l	84
69) o-Xylene	12.18	106	11360	1.886	ug/l	90
74) N-amyl acetate	12.27	43	5925	2.393	ug/l #	47
76) 1,2,3-Trichloropropane	12.64	75	94078	65.279	ug/l #	100
78) n-propylbenzene	12.82	91	18264	1.046	ug/l	92
80) 1,3,5-Trimethylbenzene	12.96	105	36513	2.927	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.64	75	94078	133.316	ug/l #	15
83) tert-Butylbenzene	13.46	119	17492	1.561	ug/l	79
84) 1,2,4-Trimethylbenzene	13.27	105	58973	4.706	ug/l	99
85) sec-Butylbenzene	13.40	105	15860	1.031	ug/l	80
89) n-Butylbenzene	13.85	91	24138	1.810	ug/l #	72
90) Hexachloroethane	14.12	117	8871	3.278	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.38	75	429	1.250	ug/l	79
95) Naphthalene	15.41	128	34272	4.711	ug/l #	85

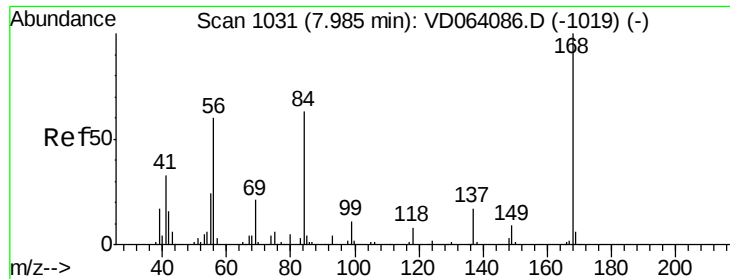
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102919\
Data File : VD064094.D
Acq On : 29 Oct 2019 17:45
Operator : VA/SY
Sample : K5149-07
Misc : 7.43G/5.00ml/MSVOA D/SOIL
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :

Quant Time: Oct 30 08:08:42 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D102919S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 08:00:10 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

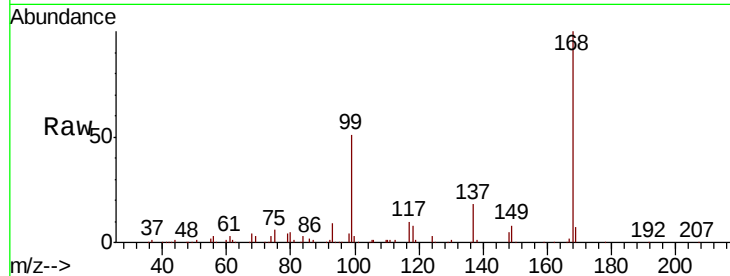
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 280172

Ion Ratio Lower Upper

168 100

99 51.1 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

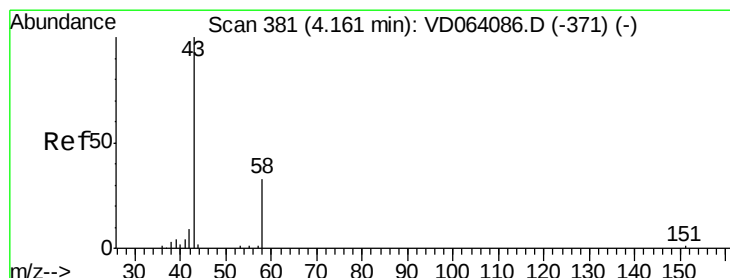
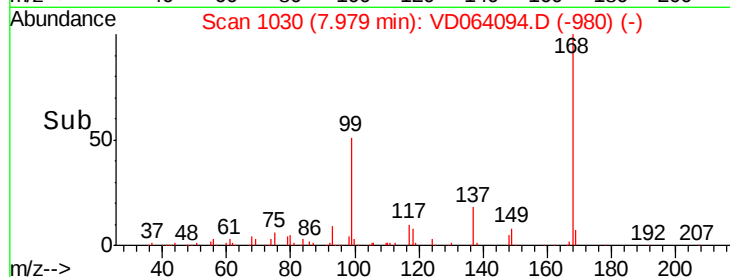
100000

50000

0

Time-->

7.90 7.95 8.00 8.05



#16

Acetone

Concen: 7.729 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD064094.D

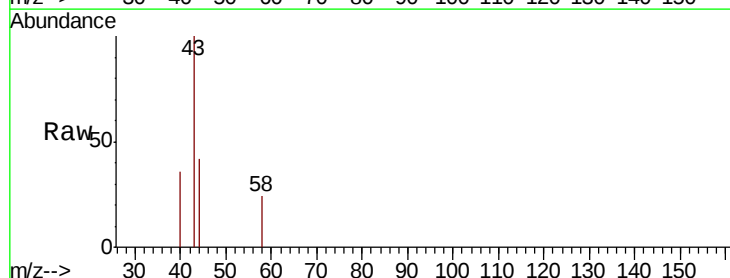
Acq: 29 Oct 2019 17:45

Tgt Ion: 43 Resp: 3277

Ion Ratio Lower Upper

43 100

58 23.7 26.3 39.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

1500

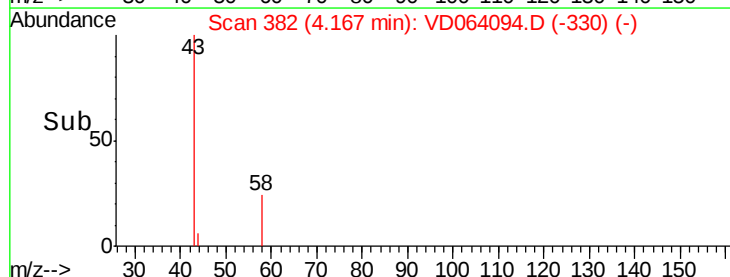
1000

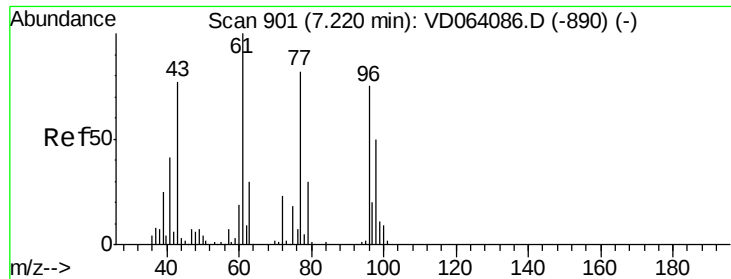
500

0

Time-->

4.10 4.15 4.20 4.25





#25

2-Butanone

Concen: 1.249 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

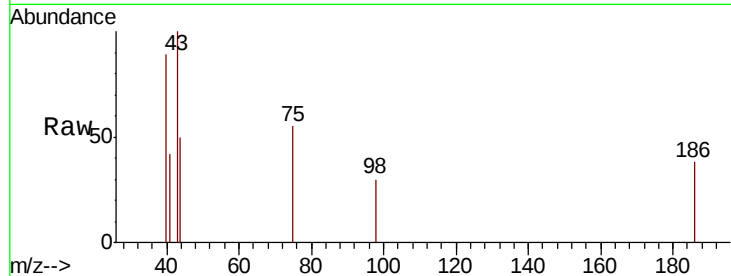
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 732

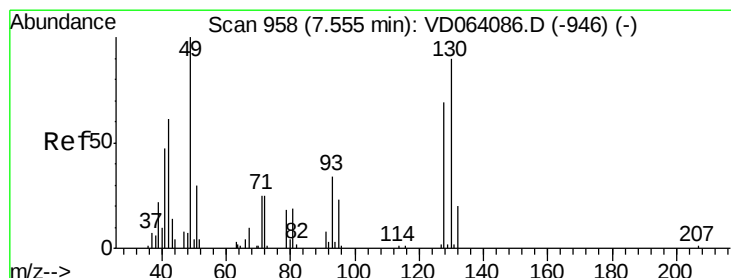
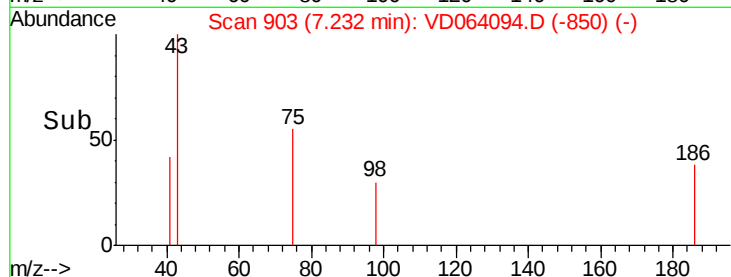
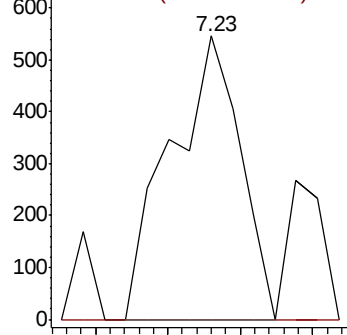
Ion Ratio Lower Upper

43 100

72 0.0 23.4 35.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC



#28

Bromochloromethane

Concen: 2.282 ug/l

RT: 7.53 min Scan# 953

Delta R.T. -0.03 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

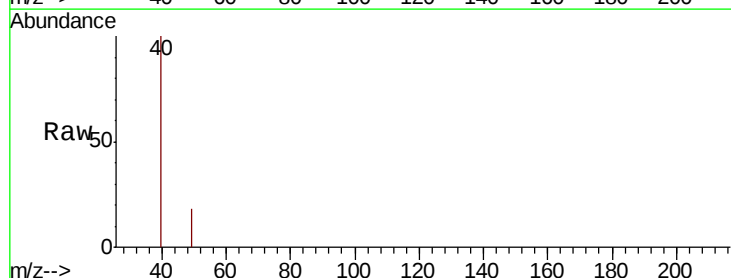
Tgt Ion: 49 Resp: 56

Ion Ratio Lower Upper

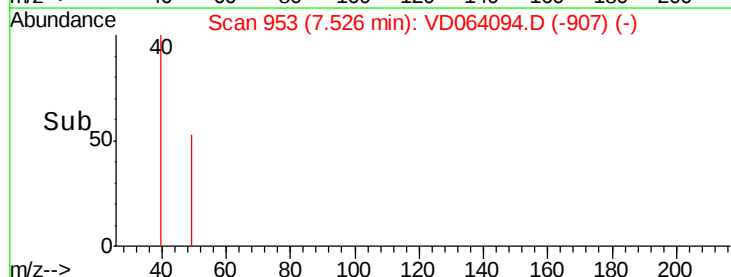
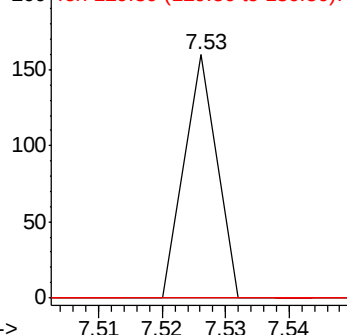
49 100

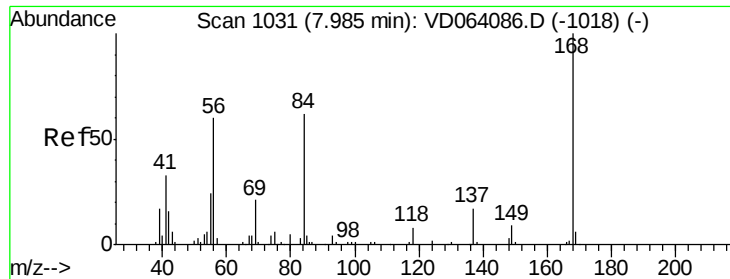
129 0.0 0.0 5.4

130 0.0 75.3 112.9#



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V

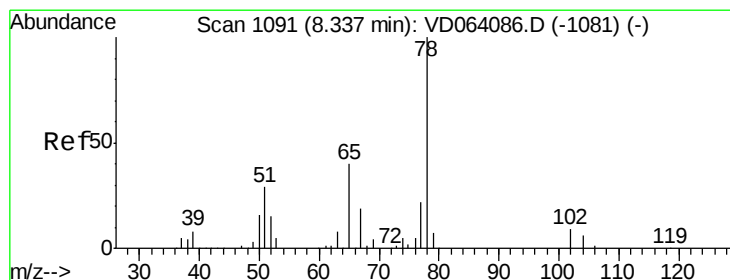
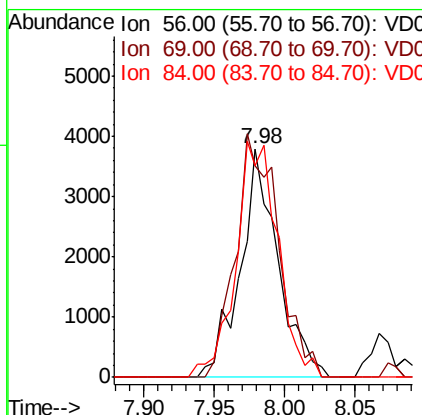
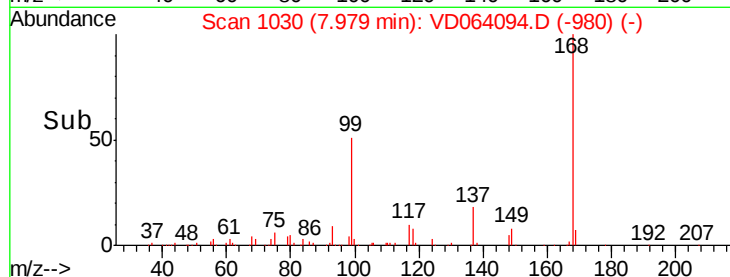
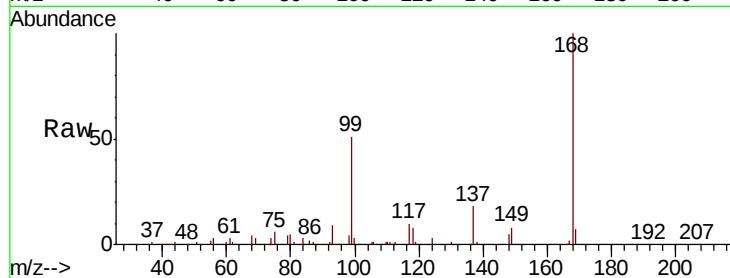




#31
Cyclohexane
Concen: 1.719 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064094.D
Acq: 29 Oct 2019 17:45

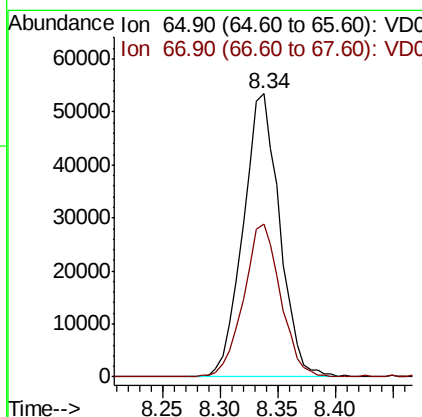
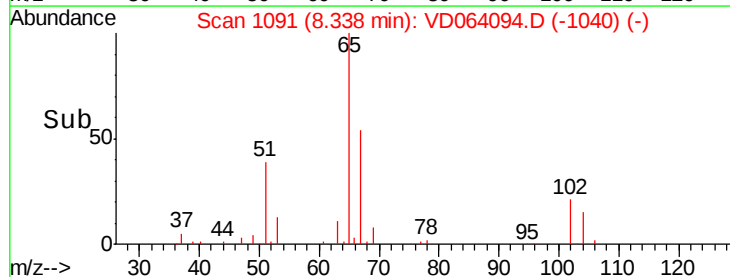
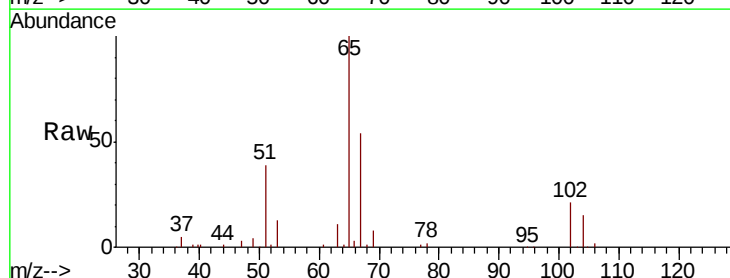
Instrument :
MSVOA_D
ClientSampled :

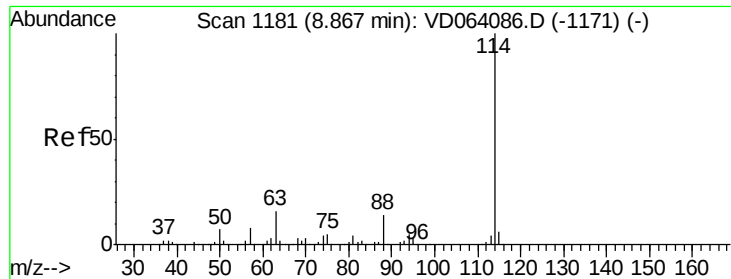
Tot Ion: 56 Resp: 7126
Ion Ratio Lower Upper
56 100
69 92.7 27.7 41.5#
84 92.8 83.1 124.7



#33
1,2-Dichloroethane-d4
Concen: 52.832 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD064094.D
Acq: 29 Oct 2019 17:45

Tgt Ion: 65 Resp: 117723
Ion Ratio Lower Upper
65 100
67 54.6 0.0 104.6

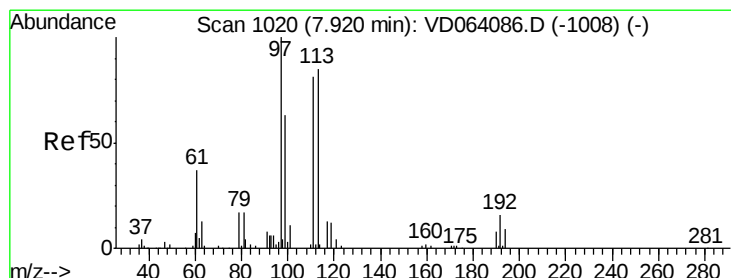
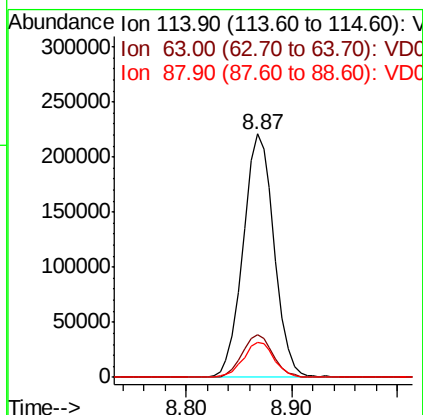
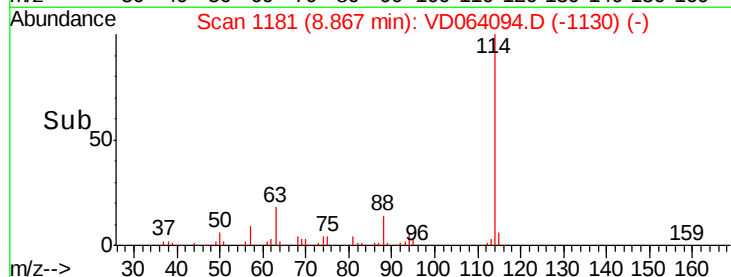
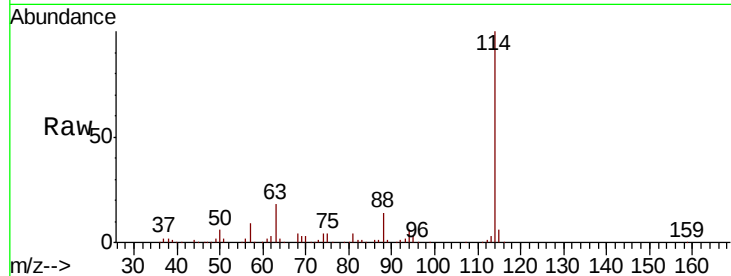




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD064094.D
Acq: 29 Oct 2019 17:45

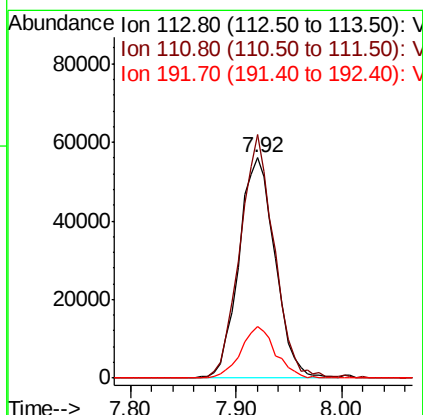
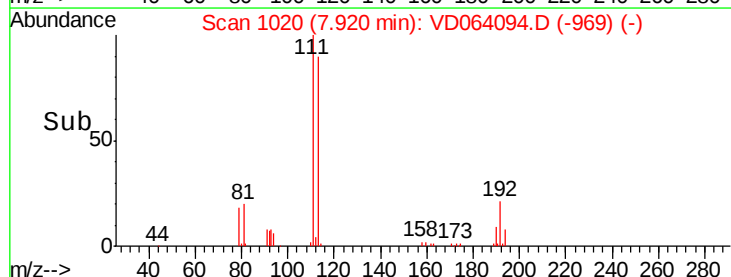
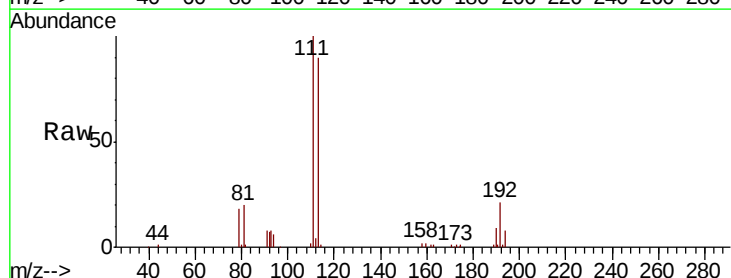
Instrument :
MSVOA_D
ClientSampled :

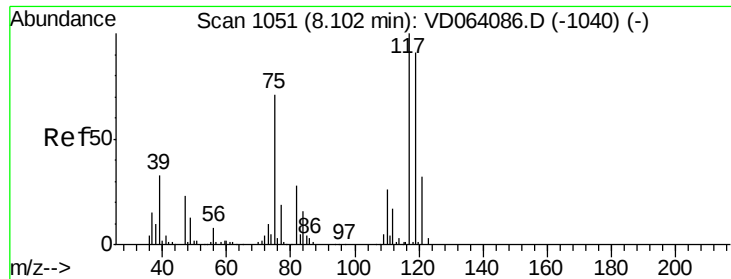
Tot Ion:114 Resp: 449608
Ion Ratio Lower Upper
114 100
63 17.8 0.0 32.8
88 14.5 0.0 27.6



#35
Dibromofluoromethane
Concen: 48.100 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD064094.D
Acq: 29 Oct 2019 17:45

Tgt Ion:113 Resp: 133050
Ion Ratio Lower Upper
113 100
111 104.8 79.3 118.9
192 22.3 16.2 24.2





#38

Carbon Tetrachloride

Concen: 5.671 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

Instrument :

MSVOA_D

ClientSampleId :

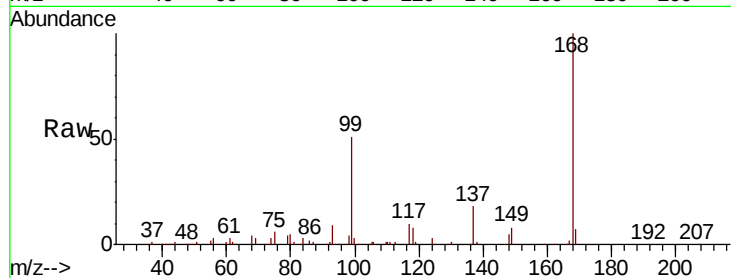
Tot Ion:117 Resp: 26067

Ion Ratio Lower Upper

117 100

119 6.2 72.6 108.8#

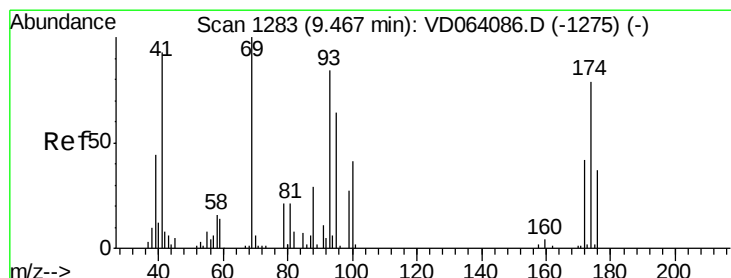
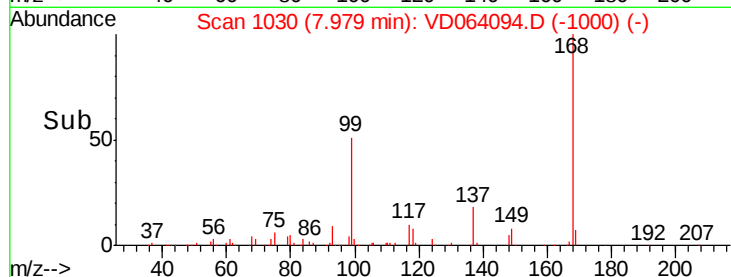
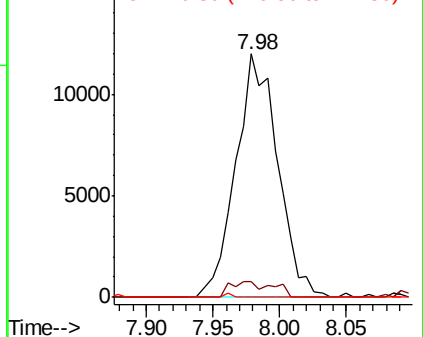
121 0.0 25.8 38.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 3.596 ug/l

RT: 9.42 min Scan# 1275

Delta R.T. -0.05 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

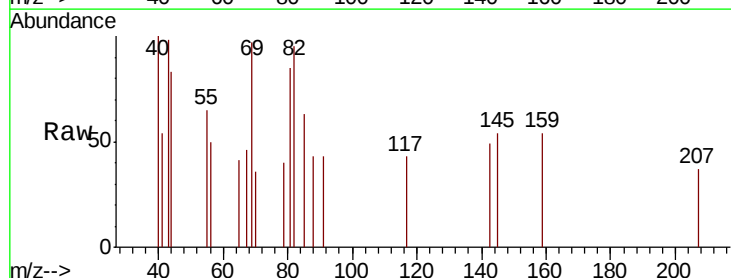
Tgt Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 959.1 13.4 20.0#

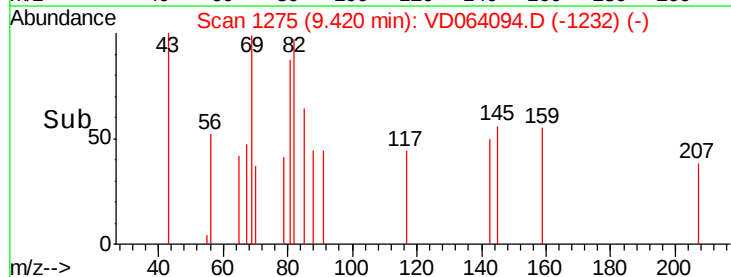
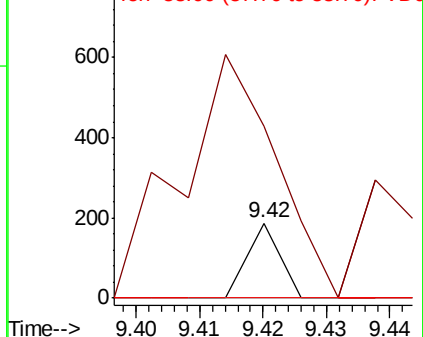
58 0.0 46.7 70.1#

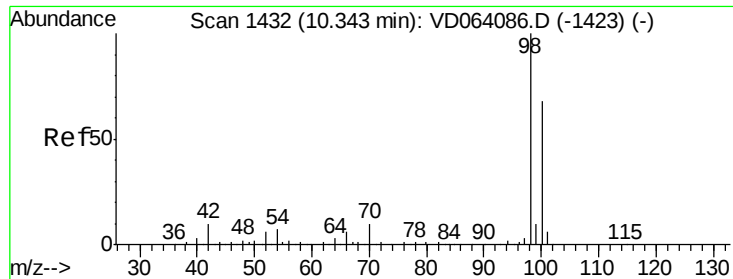


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#50

Toluene-d8

Concen: 48.556 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

Instrument :

MSVOA_D

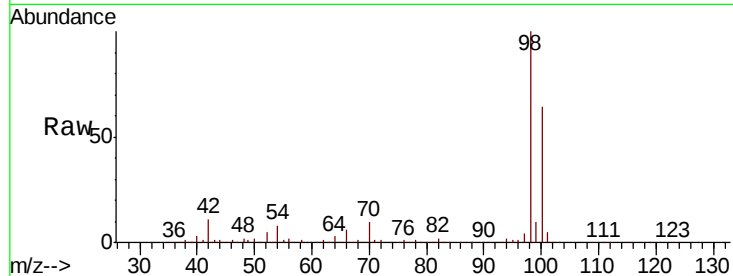
ClientSampleId :

Tot Ion: 98 Resp: 537135

Ion Ratio Lower Upper

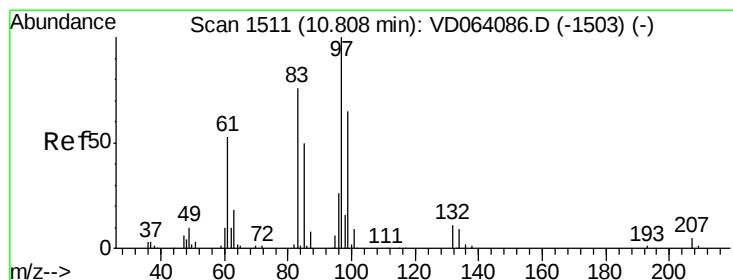
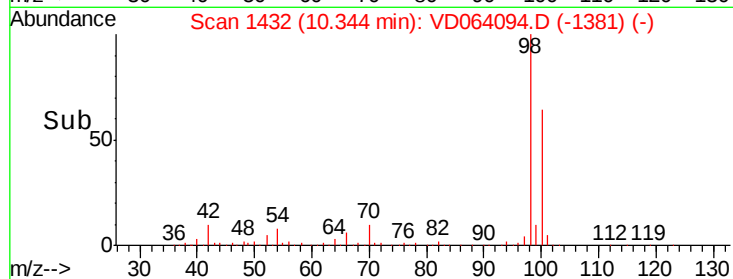
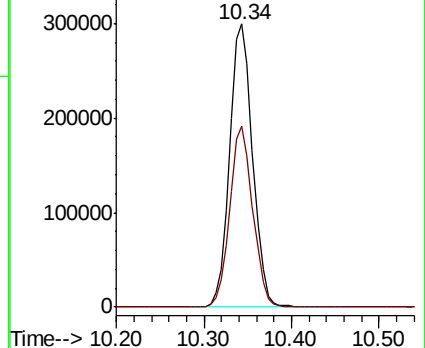
98 100

100 63.9 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#55

1,1,2-Trichloroethane

Concen: 1.361 ug/l

RT: 10.77 min Scan# 1505

Delta R.T. -0.03 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

Tgt Ion: 97 Resp: 3095

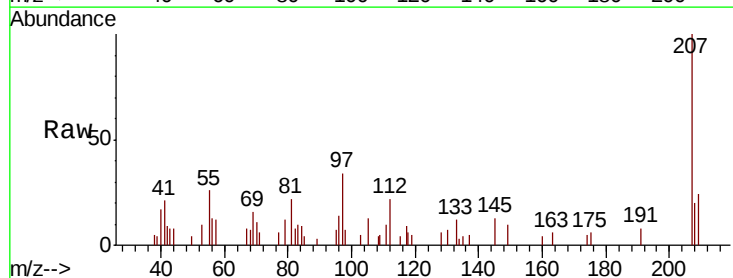
Ion Ratio Lower Upper

97 100

83 9.6 60.9 91.3#

85 15.9 40.2 60.2#

99 0.0 51.9 77.9#

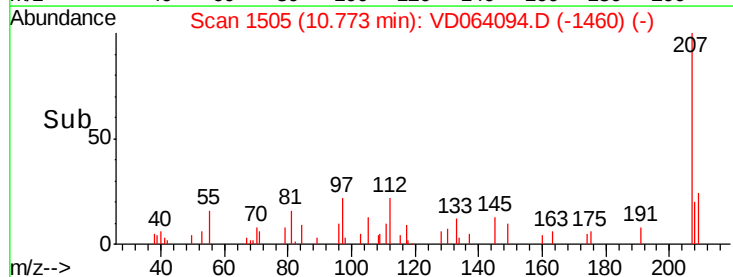
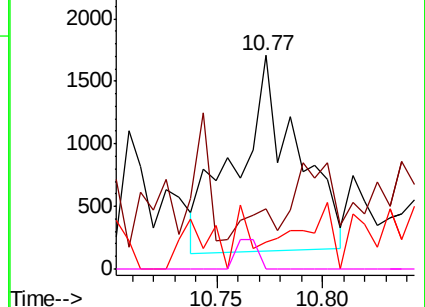


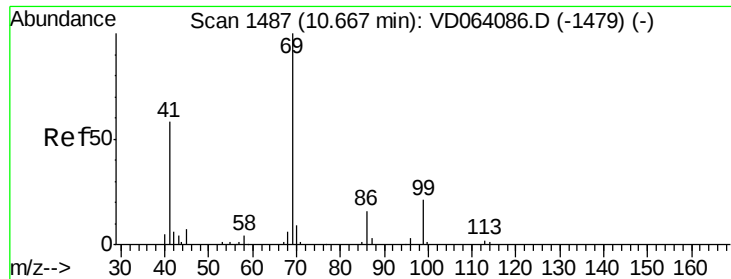
Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC





#56

Ethyl methacrylate

Concen: 3.479 ug/l

RT: 10.68 min Scan# 1489

Delta R.T. 0.01 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

Instrument :

MSVOA_D

ClientSampled :

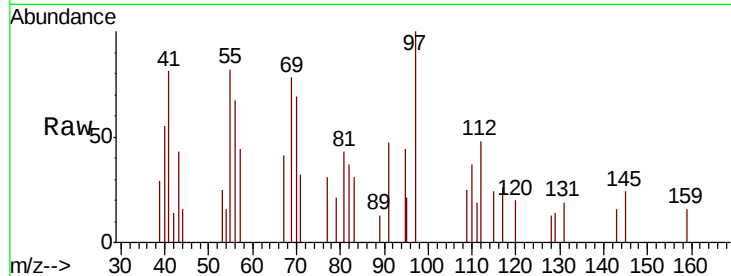
Tot Ion: 69 Resp: 1353

Ion Ratio Lower Upper

69 100

41 25.4 46.9 70.3#

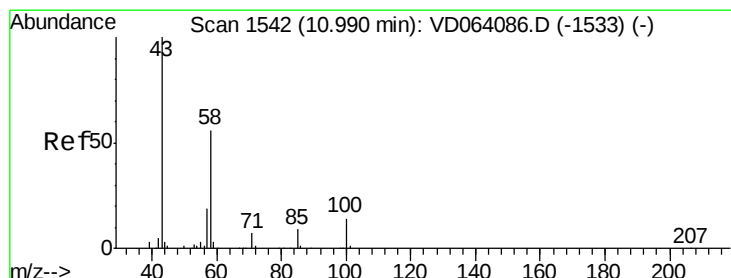
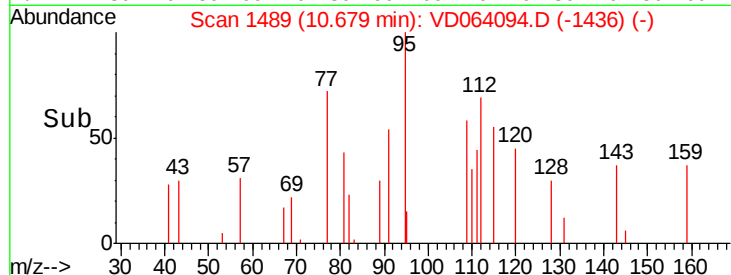
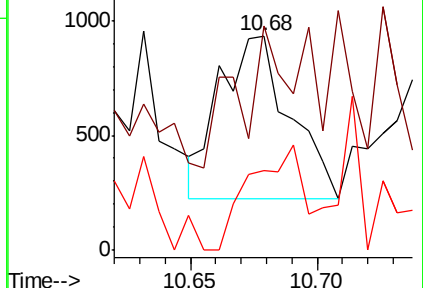
39 48.1 27.3 40.9#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC



#59

2-Hexanone

Concen: 9.425 ug/l

RT: 10.83 min Scan# 1514

Delta R.T. -0.16 min

Lab File: VD064094.D

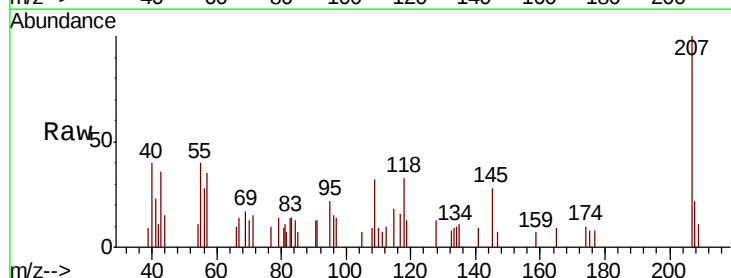
Acq: 29 Oct 2019 17:45

Tgt Ion: 43 Resp: 477

Ion Ratio Lower Upper

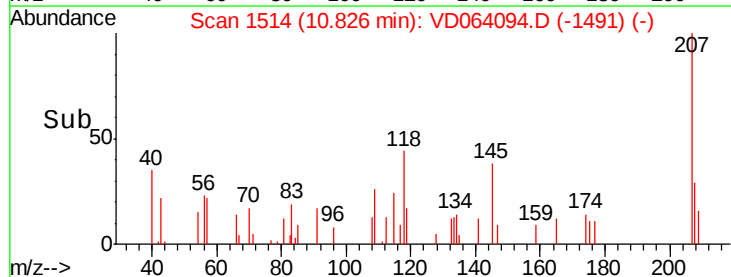
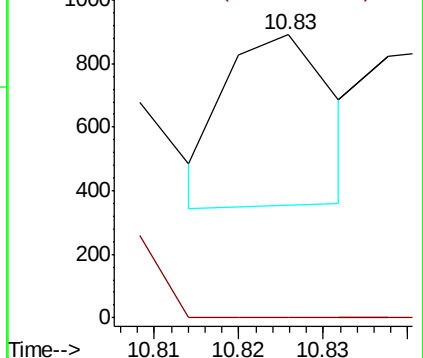
43 100

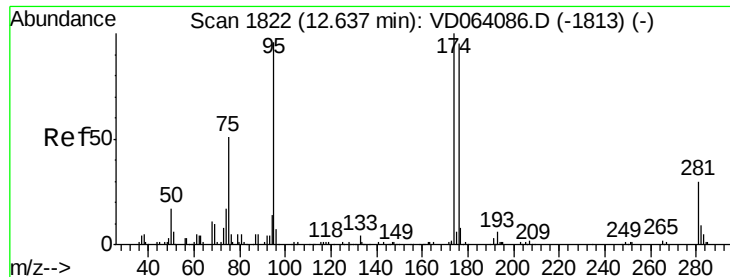
58 31.2 29.2 87.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 50.128 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

Instrument :

MSVOA_D

ClientSampleId :

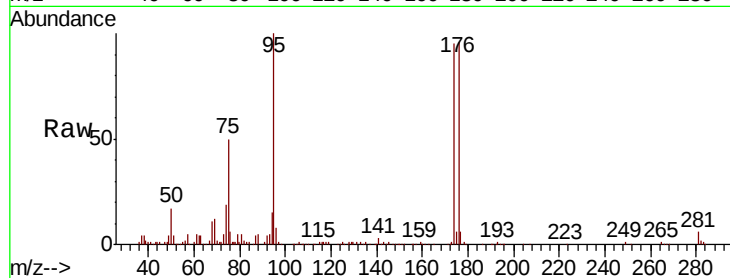
Tot Ion: 95 Resp: 183843

Ion Ratio Lower Upper

95 100

174 96.8 0.0 201.6

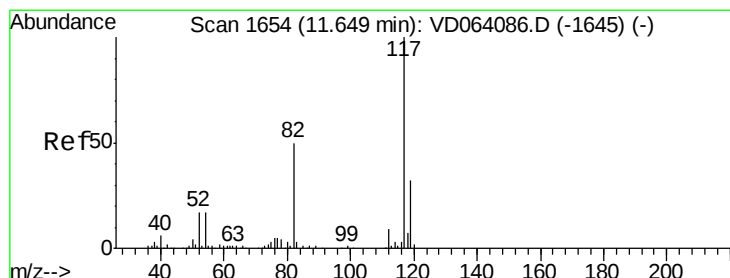
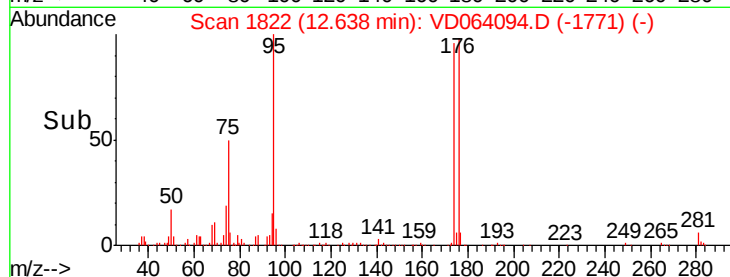
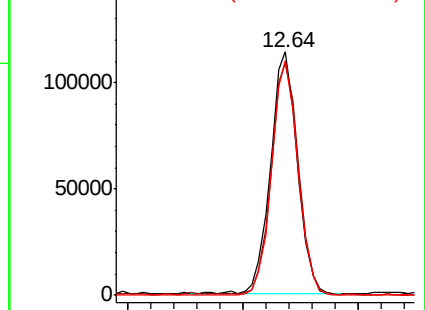
176 94.9 0.0 192.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

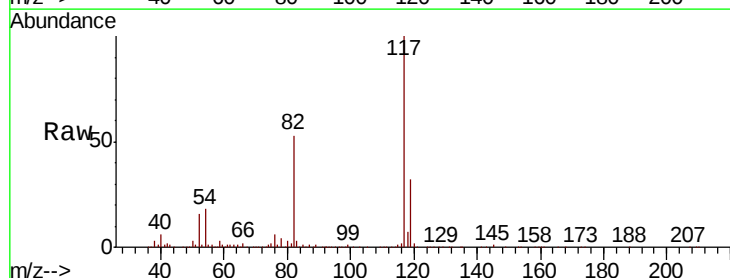
Tgt Ion: 117 Resp: 446530

Ion Ratio Lower Upper

117 100

82 52.6 40.2 60.4

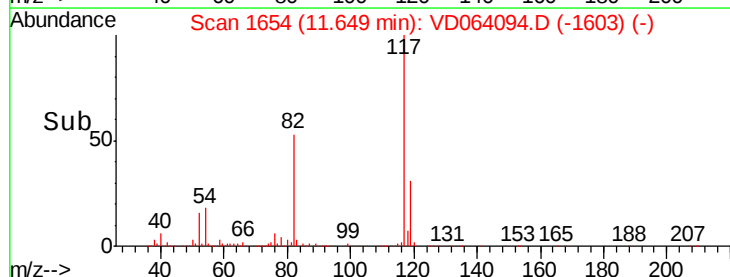
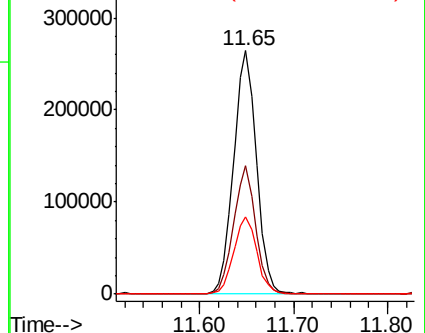
119 31.5 26.0 39.0

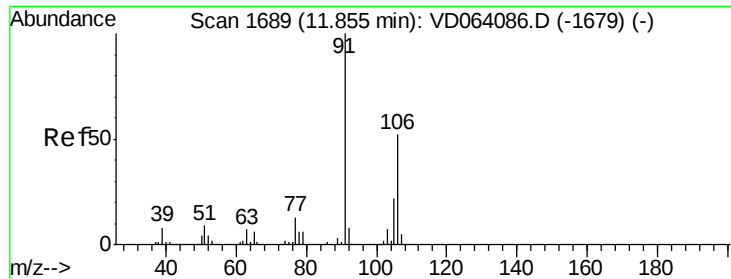


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

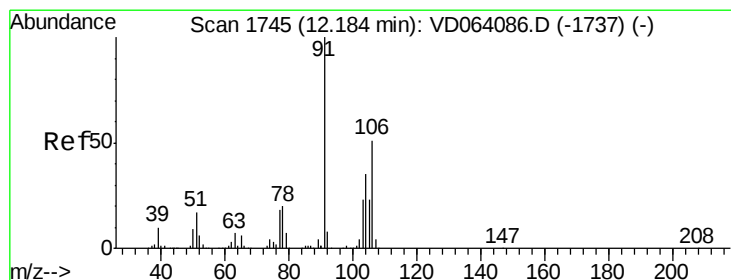
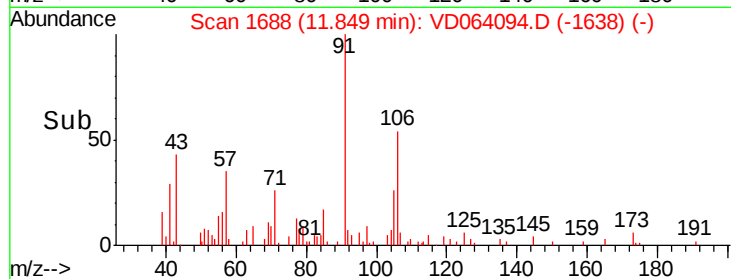
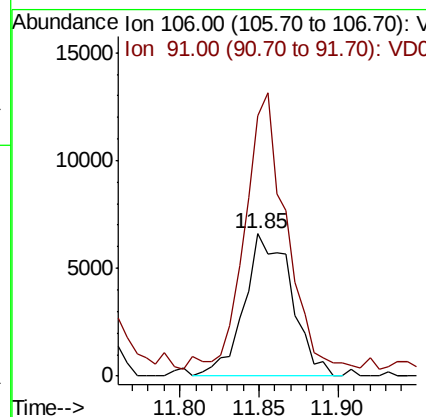
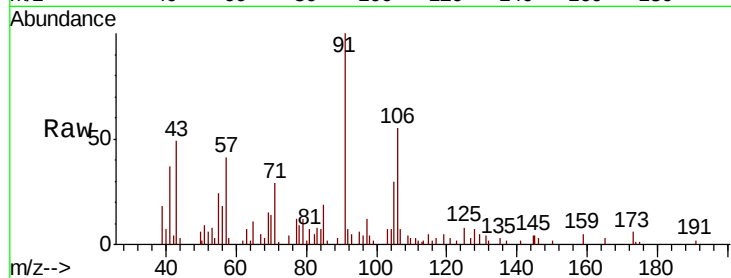




#68
m/p-Xylenes
Concen: 2.071 ug/l
RT: 11.85 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VD064094.D
Acq: 29 Oct 2019 17:45

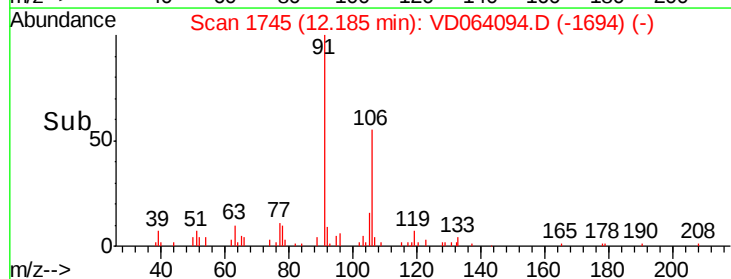
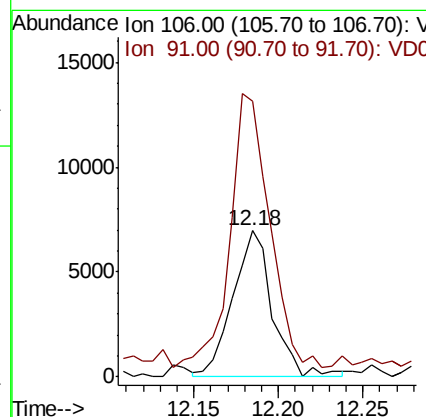
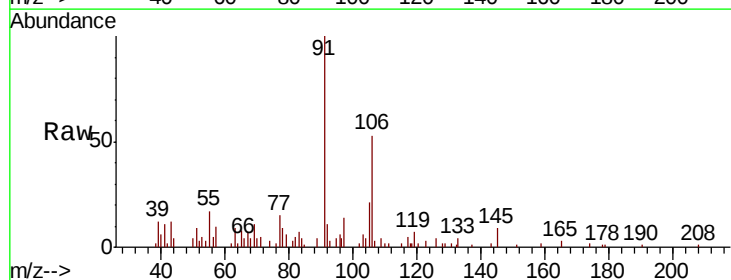
Instrument :
MSVOA_D
ClientSampleId :

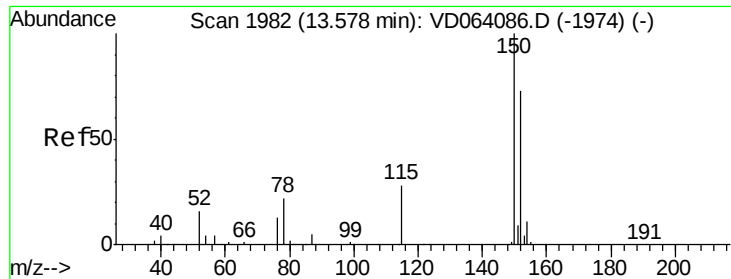
Tot Ion:106 Resp: 13667
Ion Ratio Lower Upper
106 100
91 168.7 154.0 231.0



#69
o-Xylene
Concen: 1.886 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064094.D
Acq: 29 Oct 2019 17:45

Tgt Ion:106 Resp: 11360
Ion Ratio Lower Upper
106 100
91 186.0 100.6 301.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

Instrument :

MSVOA_D

ClientSampled :

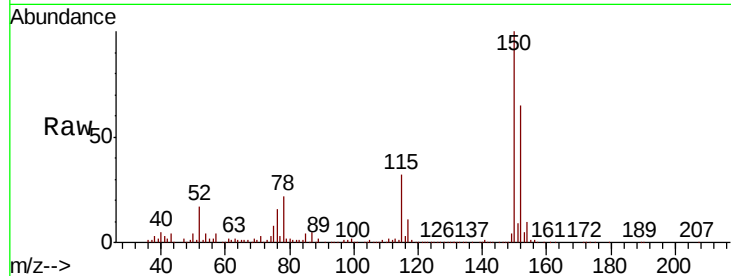
Tot Ion:152 Resp: 214478

Ion Ratio Lower Upper

152 100

115 55.7 26.2 78.6

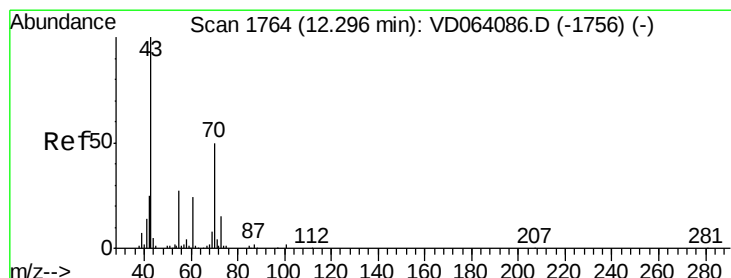
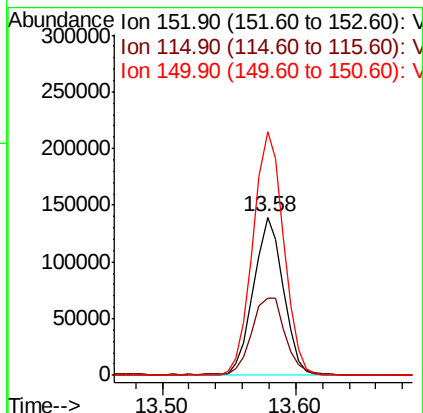
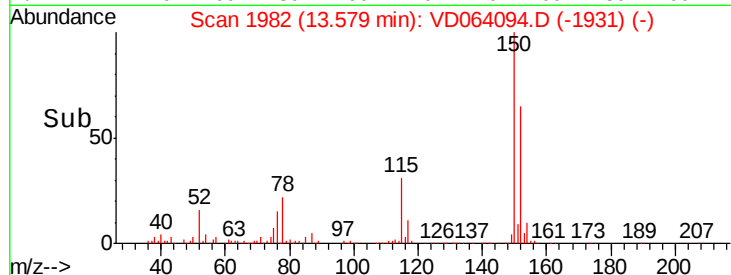
150 159.0 0.0 338.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 2.393 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

Tgt Ion: 43 Resp: 5925

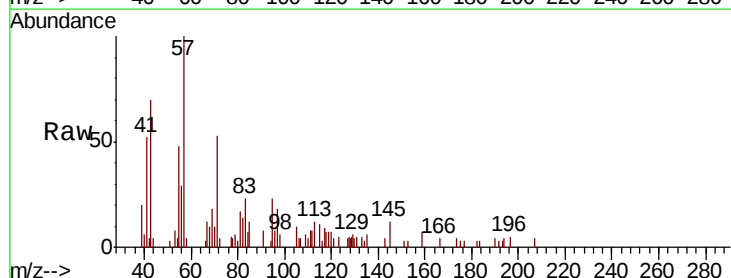
Ion Ratio Lower Upper

43 100

70 0.0 38.6 58.0#

55 36.0 20.4 30.6#

61 0.0 20.8 31.2#

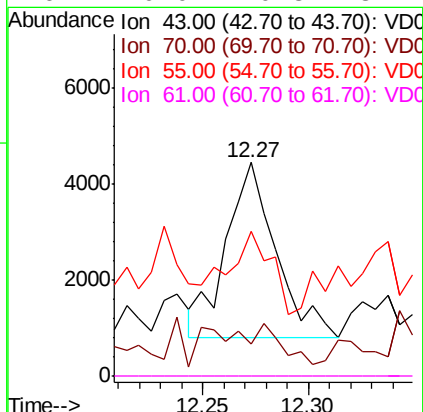
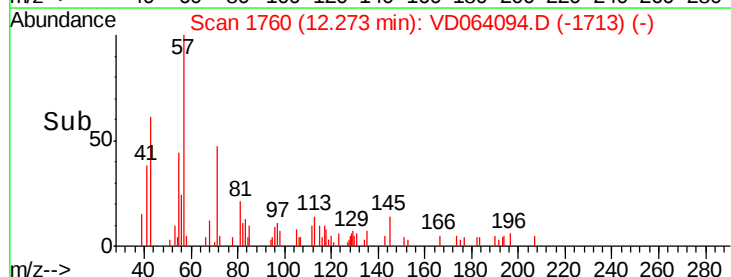


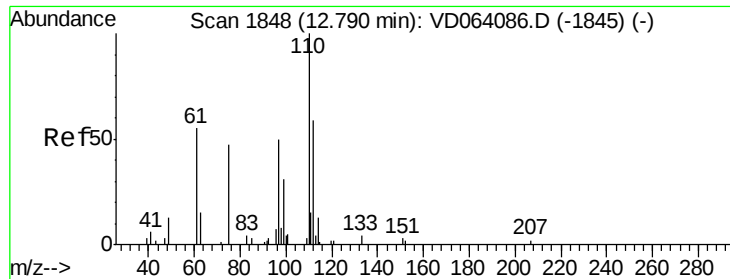
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

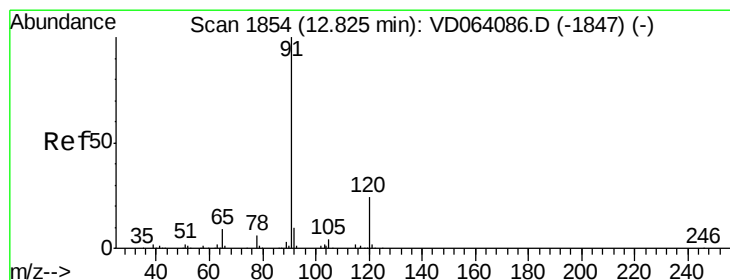
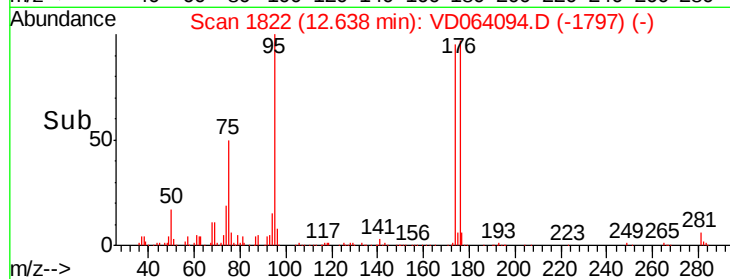
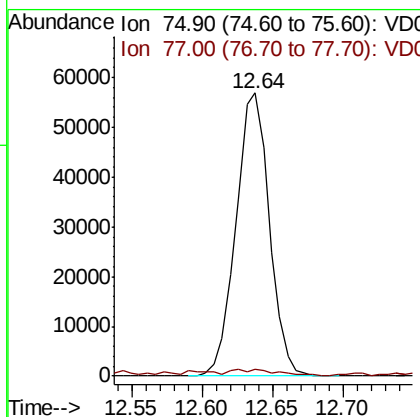
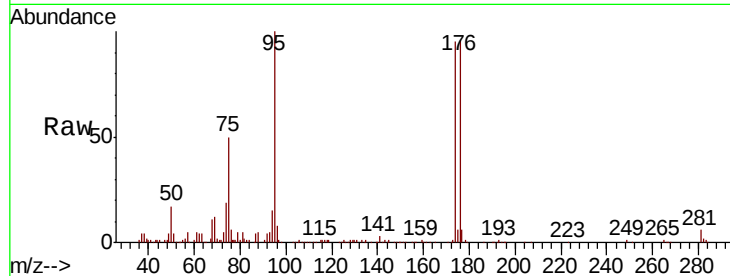




#76
 1,2,3-Trichloropropane
 Concen: 65.279 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD064094.D
 Acq: 29 Oct 2019 17:45

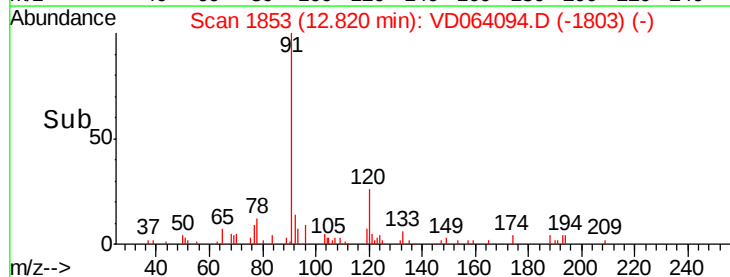
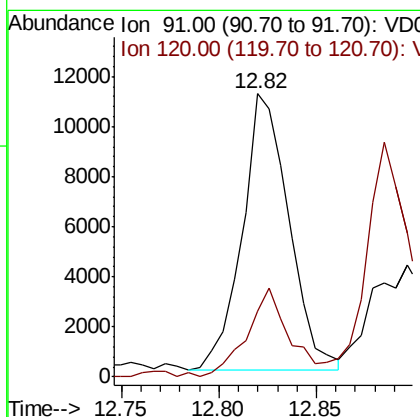
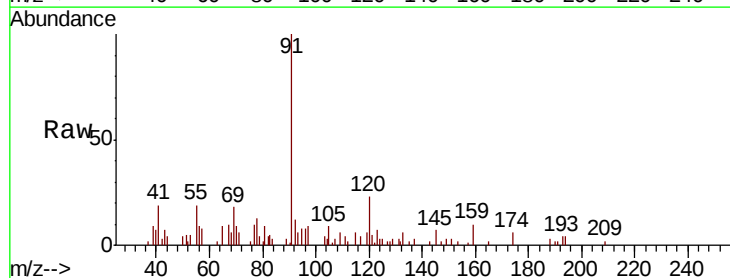
Instrument :
 MSVOA_D
 ClientSampleId :

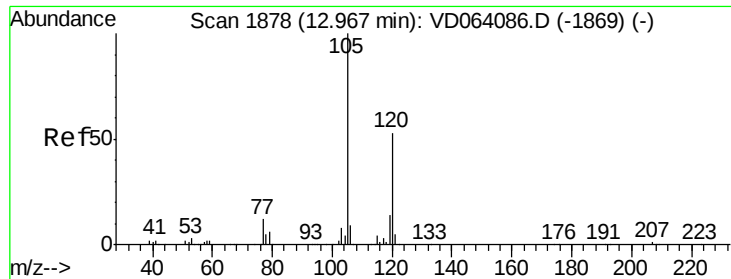
Tot Ion: 75 Resp: 94078
 Ion Ratio Lower Upper
 75 100
 77 0.7 0.0 0.0#



#78
 n-propylbenzene
 Concen: 1.046 ug/l
 RT: 12.82 min Scan# 1853
 Delta R.T. -0.01 min
 Lab File: VD064094.D
 Acq: 29 Oct 2019 17:45

Tgt Ion: 91 Resp: 18264
 Ion Ratio Lower Upper
 91 100
 120 28.4 12.1 36.3





#80

1,3,5-Trimethylbenzene

Concen: 2.927 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. -0.01 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

Instrument :

MSVOA_D

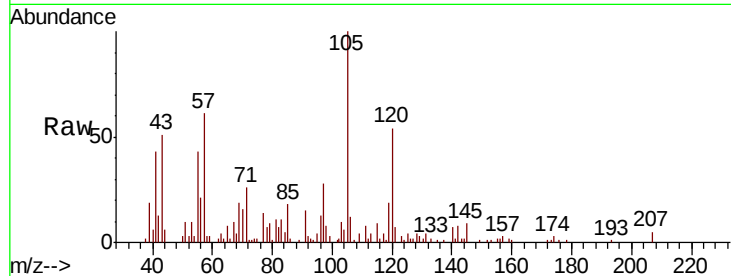
ClientSampleId :

Tot Ion:105 Resp: 36513

Ion Ratio Lower Upper

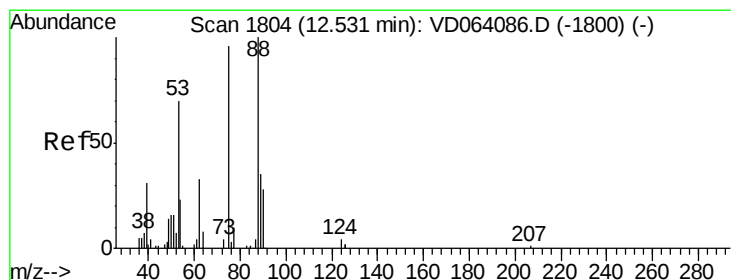
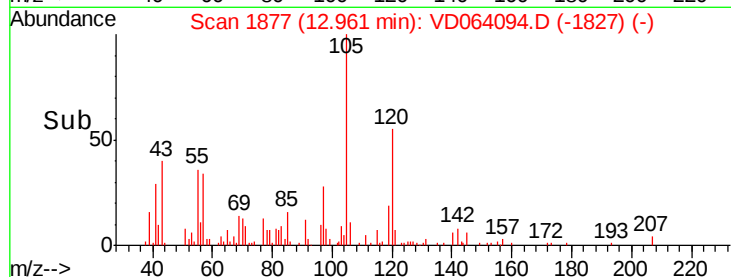
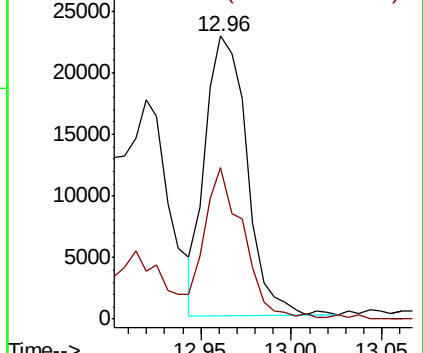
105 100

120 47.8 25.8 77.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 133.316 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

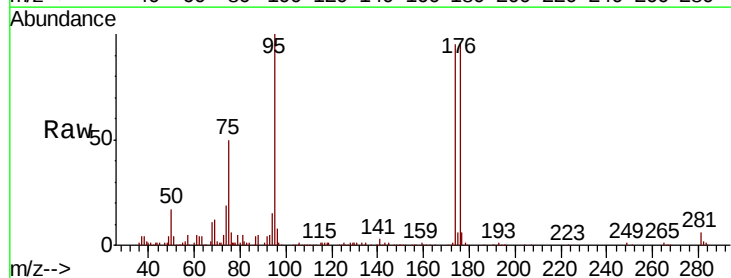
Tgt Ion: 75 Resp: 94078

Ion Ratio Lower Upper

75 100

53 0.0 68.6 103.0#

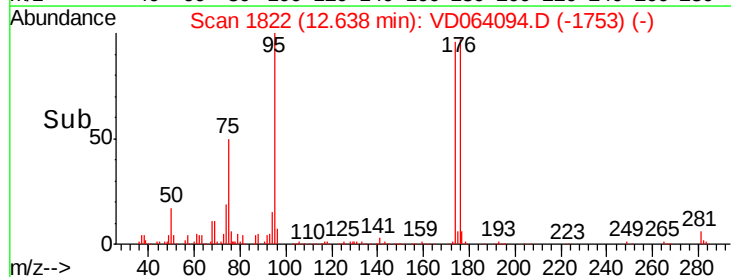
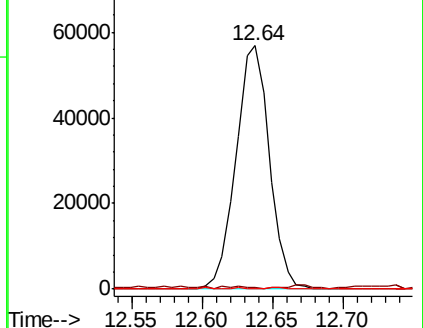
89 0.3 36.9 55.3#

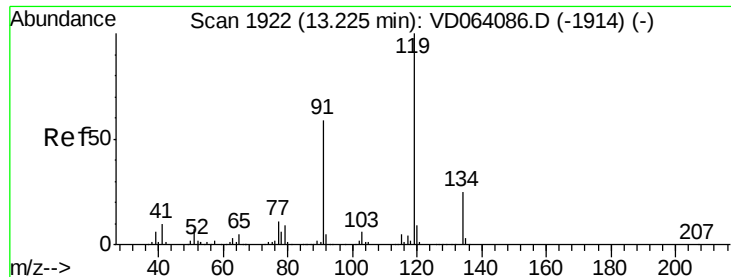


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V





#83

tert-Butylbenzene

Concen: 1.561 ug/l

RT: 13.46 min Scan# 1962

Delta R.T. 0.24 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

Instrument :

MSVOA_D

ClientSampled :

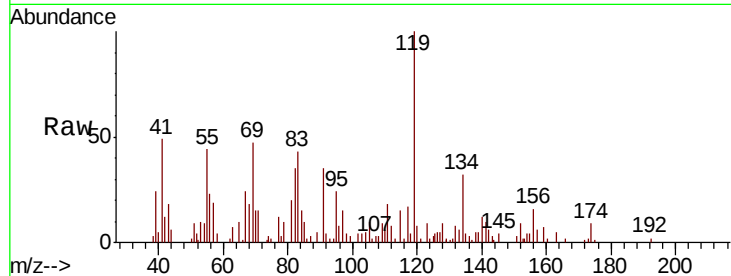
Tot Ion:119 Resp: 17492

Ion Ratio Lower Upper

119 100

91 38.2 28.3 85.0

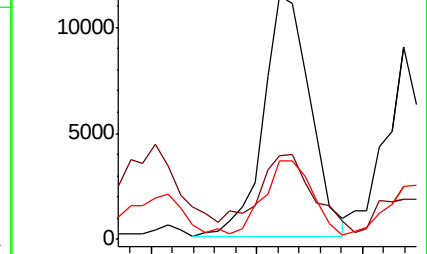
134 32.2 12.9 38.6



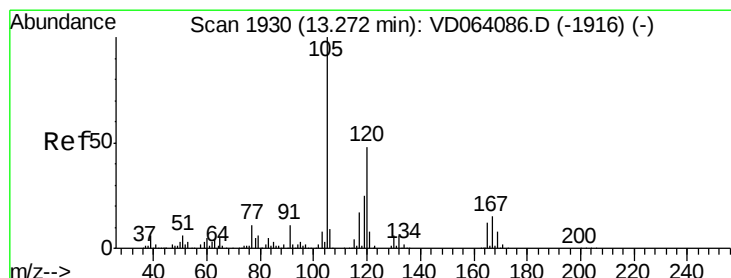
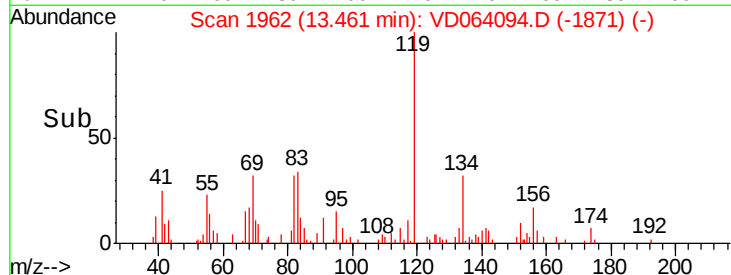
Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#84

1,2,4-Trimethylbenzene

Concen: 4.706 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD064094.D

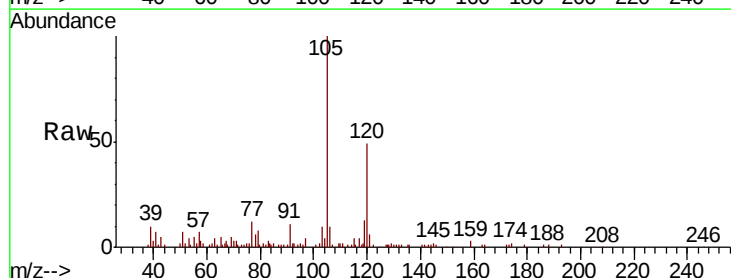
Acq: 29 Oct 2019 17:45

Tgt Ion:105 Resp: 58973

Ion Ratio Lower Upper

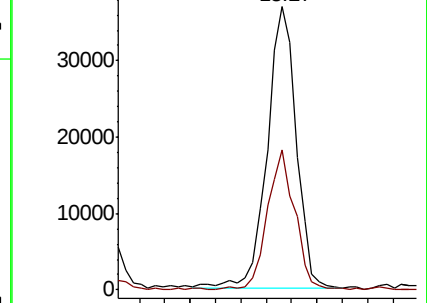
105 100

120 47.3 24.1 72.4

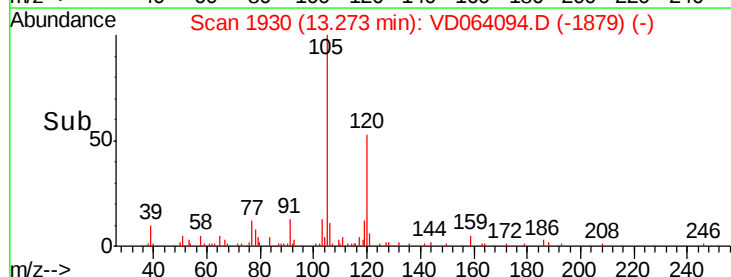


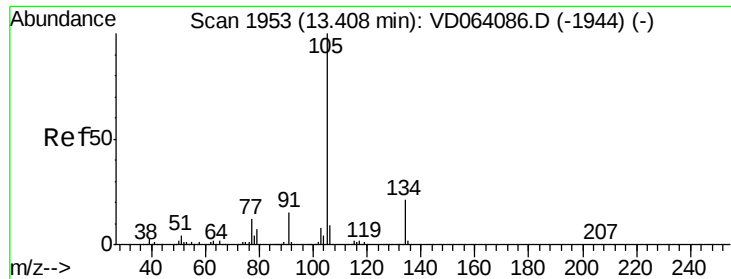
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->

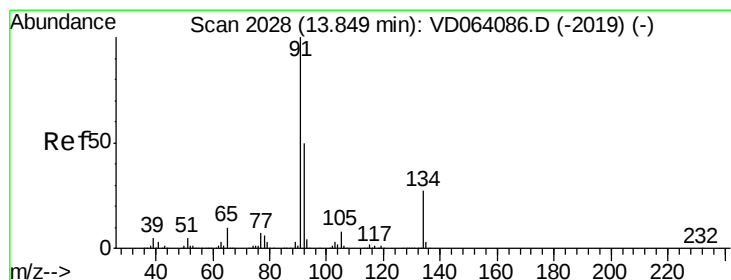
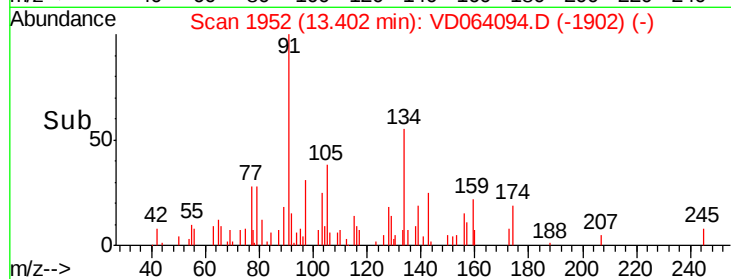
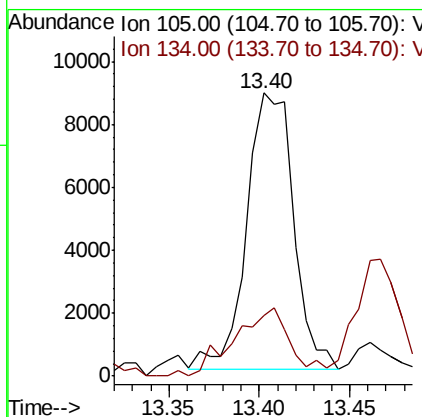
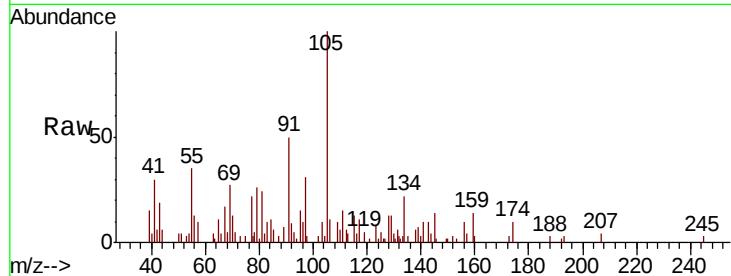




#85
 sec-Butylbenzene
 Concen: 1.031 ug/l
 RT: 13.40 min Scan# 1952
 Delta R.T. -0.01 min
 Lab File: VD064094.D
 Acq: 29 Oct 2019 17:45

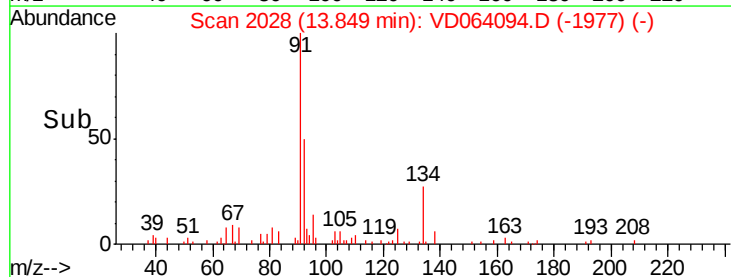
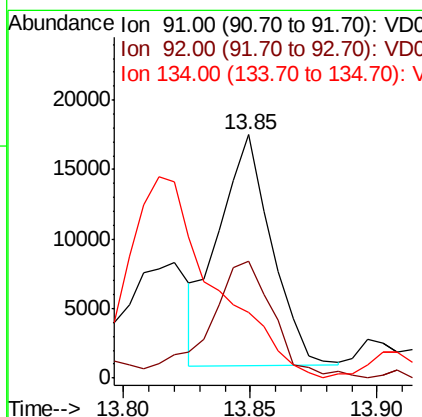
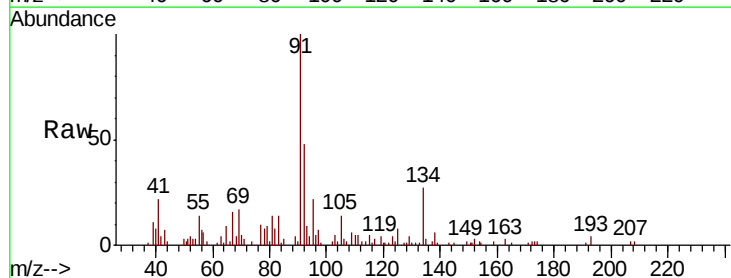
Instrument :
 MSVOA_D
 ClientSampleID :

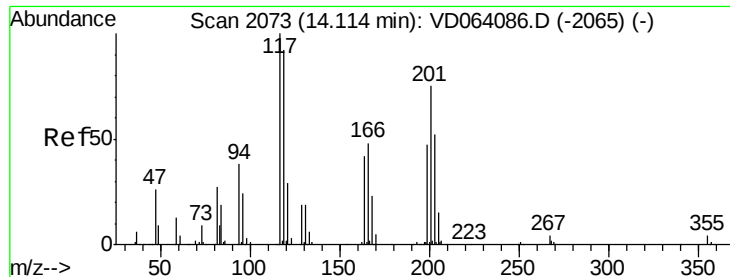
Tot Ion:105 Resp: 15860
 Ion Ratio Lower Upper
 105 100
 134 30.1 10.4 31.2



#89
 n-Butylbenzene
 Concen: 1.810 ug/l
 RT: 13.85 min Scan# 2028
 Delta R.T. 0.00 min
 Lab File: VD064094.D
 Acq: 29 Oct 2019 17:45

Tgt Ion: 91 Resp: 24138
 Ion Ratio Lower Upper
 91 100
 92 61.4 25.6 76.6
 134 0.0 14.0 42.0#





#90

Hexachloroethane

Concen: 3.278 ug/l

RT: 14.12 min Scan# 2074

Delta R.T. 0.01 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

Instrument :

MSVOA_D

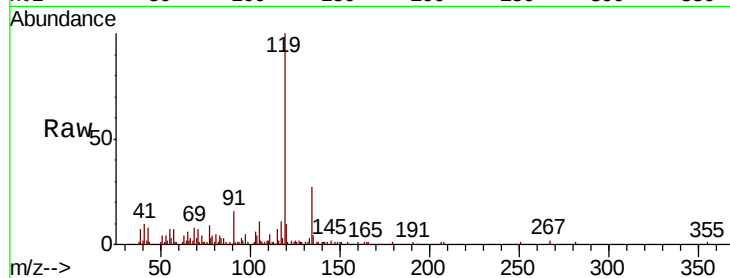
ClientSampleId :

Tot Ion:117 Resp: 8871

Ion Ratio Lower Upper

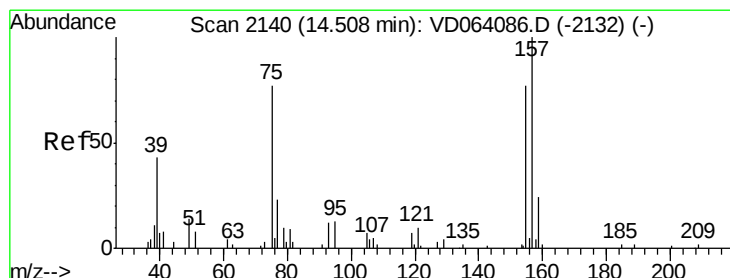
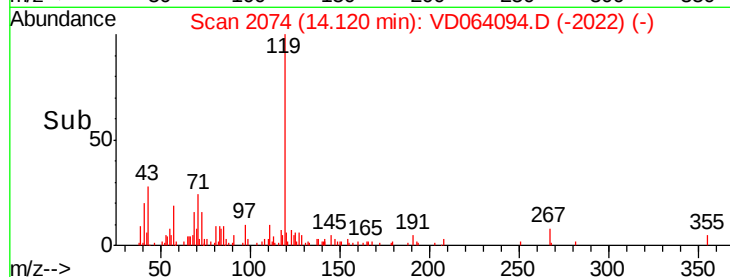
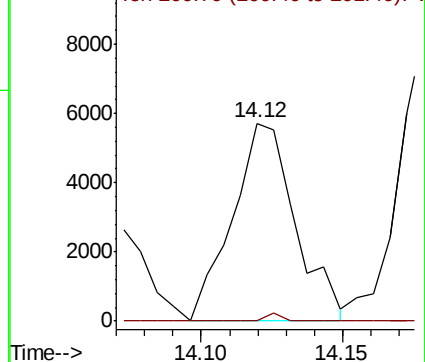
117 100

201 0.9 38.4 115.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.250 ug/l

RT: 14.38 min Scan# 2118

Delta R.T. -0.13 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

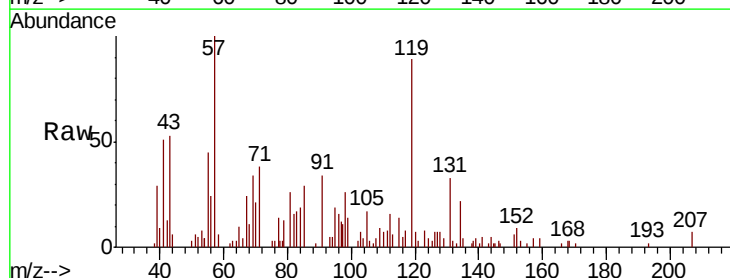
Tgt Ion: 75 Resp: 429

Ion Ratio Lower Upper

75 100

155 67.4 56.3 168.9

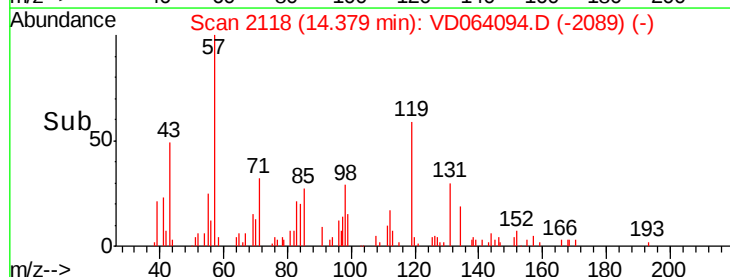
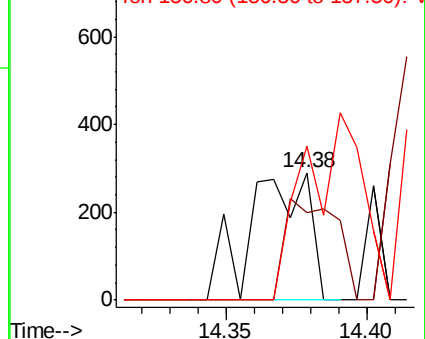
157 139.9 72.2 216.6

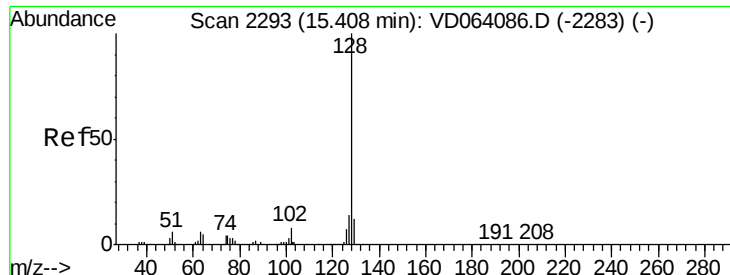


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 4.711 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD064094.D

Acq: 29 Oct 2019 17:45

Instrument :

MSVOA_D

ClientSampleId :

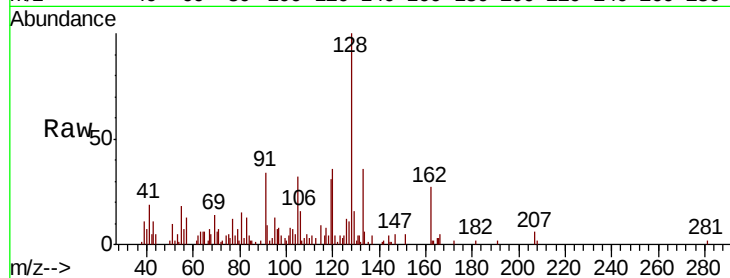
Tot Ion:128 Resp: 34272

Ion Ratio Lower Upper

128 100

127 19.6 10.9 16.3#

129 5.1 8.8 13.2#



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

