

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080619\
 Data File : VD063401.D
 Acq On : 6 Aug 2019 16:15
 Operator : JC/SY
 Sample : K4165-04
 Misc : 5.09g/5ml/MSVOA_D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CP-MW4-W-8-10-SOIL

Quant Time: Aug 07 06:42:48 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	30284	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	47060	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	44097	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	24280	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	33368	99.30	ug/l	0.01
Spiked Amount	50.000		Recovery	=	198.60%	
35) Dibromofluoromethane	6.92	113	25361	63.12	ug/l	0.01
Spiked Amount	50.000		Recovery	=	126.24%	
50) Toluene-d8	10.42	98	49226	54.74	ug/l	0.01
Spiked Amount	50.000		Recovery	=	109.48%	
62) 4-Bromofluorobenzene	13.56	95	22678	55.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.68%	

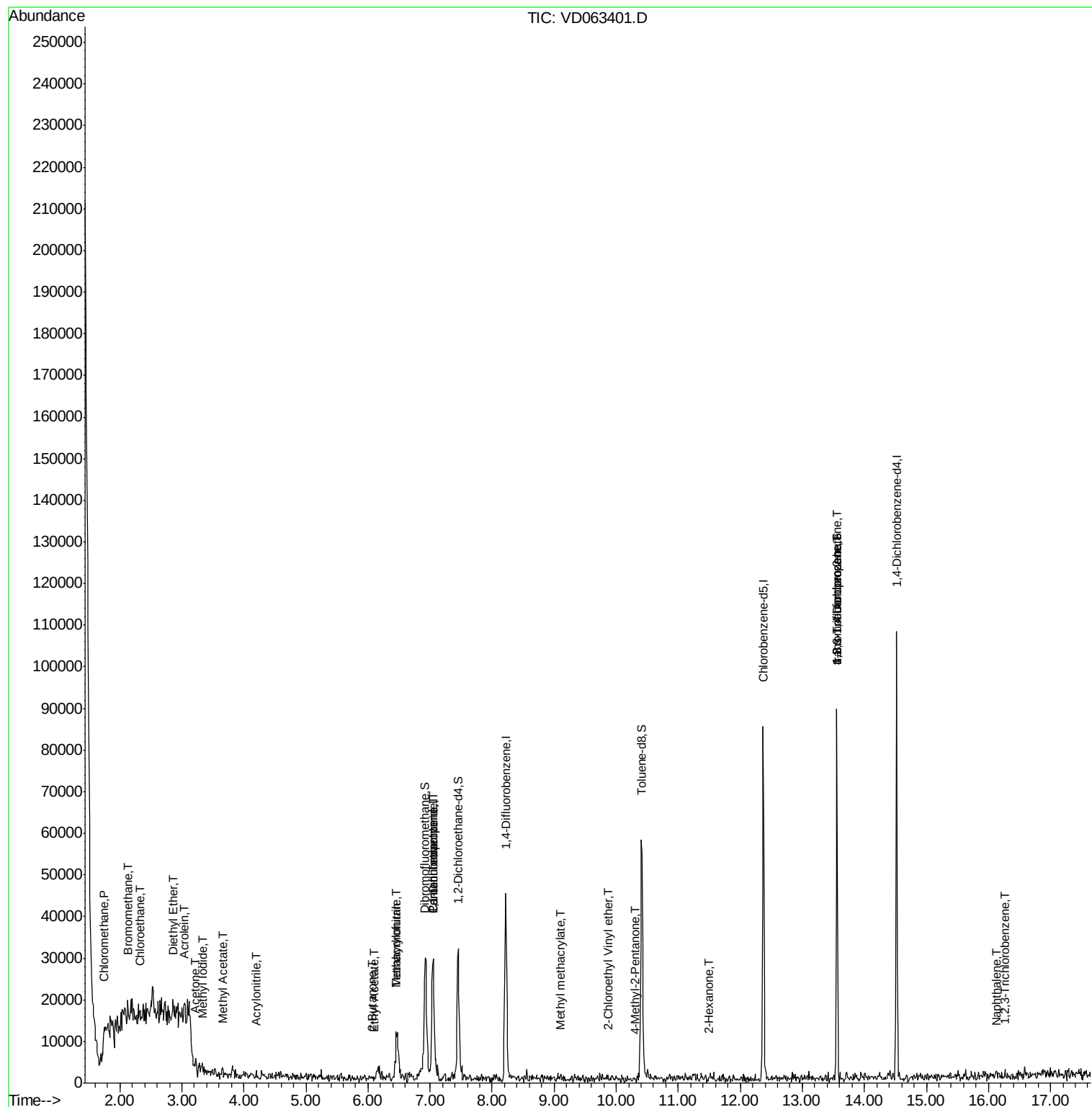
Target Compounds						Qvalue
3) Chloromethane	1.75	50	462	1.606	ug/l #	46
5) Bromomethane	2.12	94	1492	9.936	ug/l #	12
6) Chloroethane	2.32	64	241	1.753	ug/l #	1
8) Diethyl Ether	2.86	74	377	4.664	ug/l #	1
10) Methyl Iodide	3.33	142	741	1.603	ug/l #	72
13) Acrolein	3.03	56	396	27.903	ug/l #	1
15) Acrylonitrile	4.20	53	346	9.050	ug/l #	14
16) Acetone	3.21	43	1333	20.360	ug/l #	62
18) Methyl Acetate	3.66	43	217	1.726	ug/l #	60
25) 2-Butanone	6.08	43	330	5.022	ug/l #	56
29) Tetrahydrofuran	6.46	42	9209	296.027	ug/l	91
36) 1,1-Dichloropropene	7.05	75	2006	4.671	ug/l #	44
37) Ethyl Acetate	6.11	43	479	2.483	ug/l #	70
38) Carbon Tetrachloride	7.04	117	2406	3.721	ug/l #	11
41) Methacrylonitrile	6.46	41	8036	34.817	ug/l #	67
48) Methyl methacrylate	9.11	41	207	1.295	ug/l #	14
51) 4-Methyl-2-Pentanone	10.31	43	180	1.074	ug/l #	42
58) 2-Chloroethyl Vinyl ether	9.87	63	205	1.779	ug/l #	47
59) 2-Hexanone	11.49	43	220	1.821	ug/l #	31
76) 1,2,3-Trichloropropane	13.56	75	7468	25.607	ug/l #	43
81) trans-1,4-Dichloro-2-buten	13.56	75	10905	134.661	ug/l #	3
95) Naphthalene	16.13	128	2061	2.744	ug/l #	68
96) 1,2,3-Trichlorobenzene	16.26	180	573	1.365	ug/l #	53

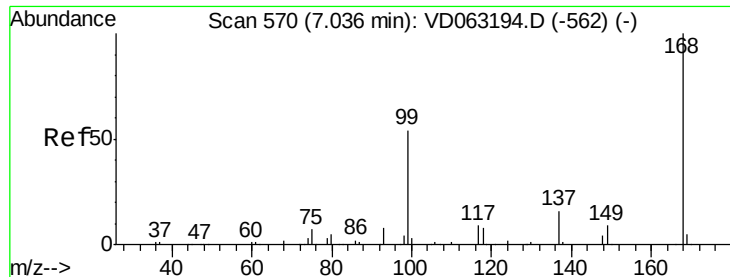
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 30 03:04:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063401.D

Acq: 6 Aug 2019 16:15

Instrument :

MSVOA_D

ClientSampleId :

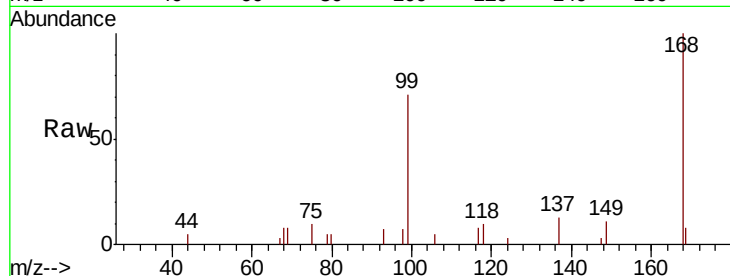
CP-MW4-W-8-10-SOIL

Tgt Ion:168 Resp: 30284

Ion Ratio Lower Upper

168 100

99 70.9 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

12000

10000

8000

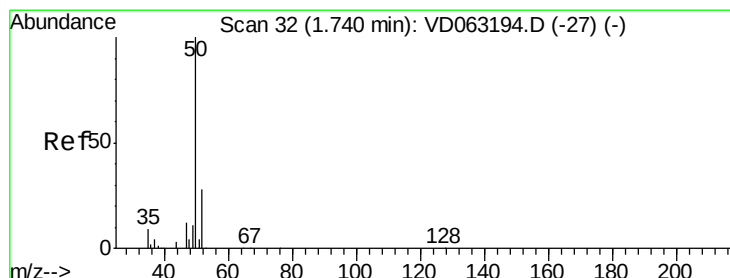
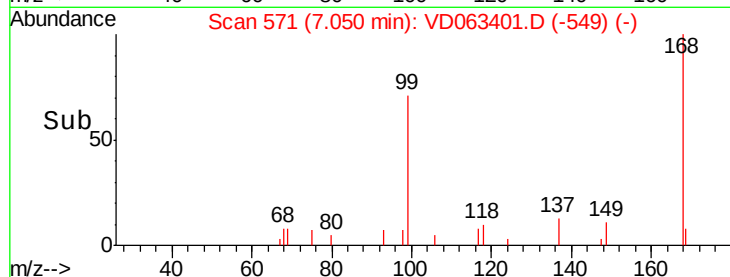
6000

4000

2000

0

Time--> 6.90 7.00 7.10 7.20



#3

Chloromethane

Concen: 1.606 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD063401.D

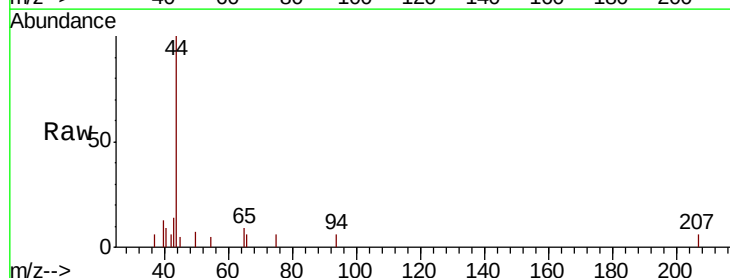
Acq: 6 Aug 2019 16:15

Tgt Ion: 50 Resp: 462

Ion Ratio Lower Upper

50 100

52 0.0 22.6 34.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.75

500

400

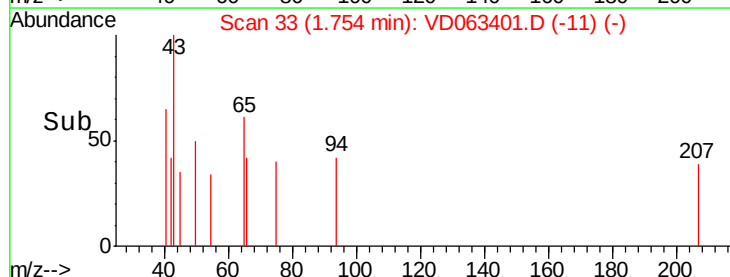
300

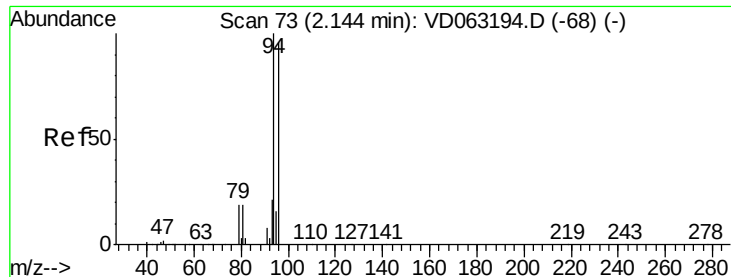
200

100

0

Time--> 1.70 1.72 1.74 1.76 1.78





#5

Bromomethane

Concen: 9.936 ug/l

RT: 2.12 min Scan# 70

Delta R.T. -0.03 min

Lab File: VD063401.D

Acq: 6 Aug 2019 16:15

Instrument :

MSVOA_D

ClientSampleId :

CP-MW4-W-8-10-SOIL

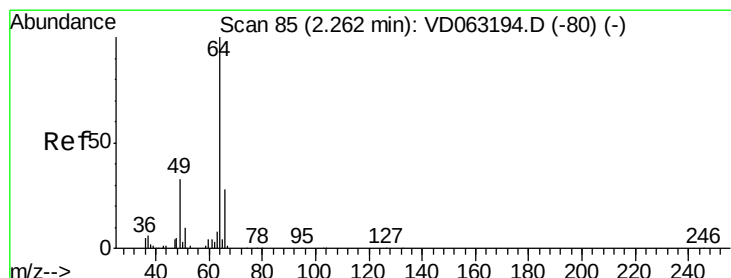
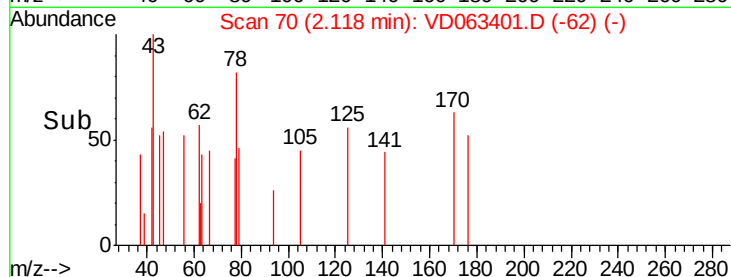
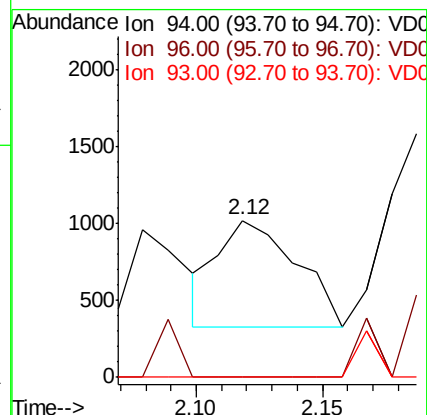
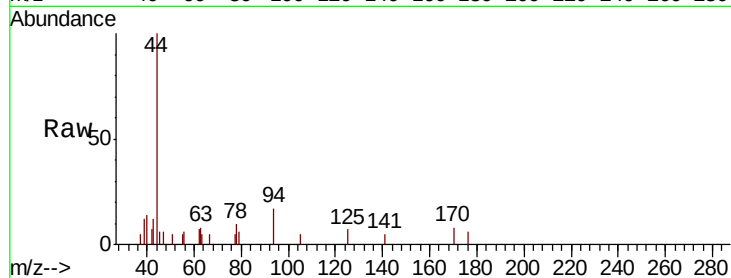
Tgt Ion: 94 Resp: 1492

Ion Ratio Lower Upper

94 100

96 0.0 76.4 114.6#

93 0.0 17.3 25.9#



#6

Chloroethane

Concen: 1.753 ug/l

RT: 2.32 min Scan# 90

Delta R.T. 0.05 min

Lab File: VD063401.D

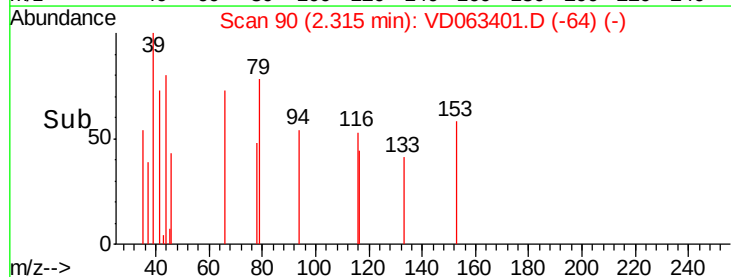
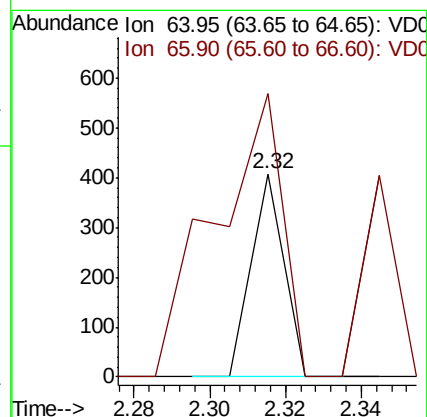
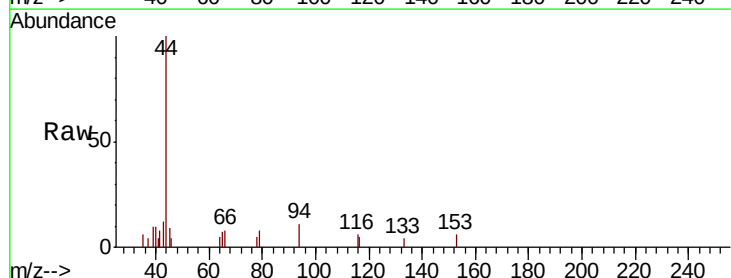
Acq: 6 Aug 2019 16:15

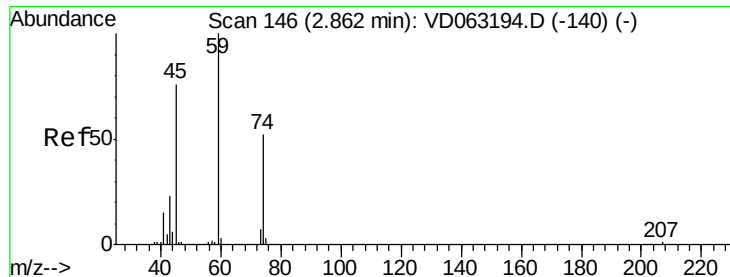
Tgt Ion: 64 Resp: 241

Ion Ratio Lower Upper

64 100

66 139.2 22.2 33.2#





#8

Diethyl Ether

Concen: 4.664 ug/l

RT: 2.86 min Scan# 145

Delta R.T. -0.01 min

Lab File: VD063401.D

Acq: 6 Aug 2019 16:15

Instrument :

MSVOA_D

ClientSampleId :

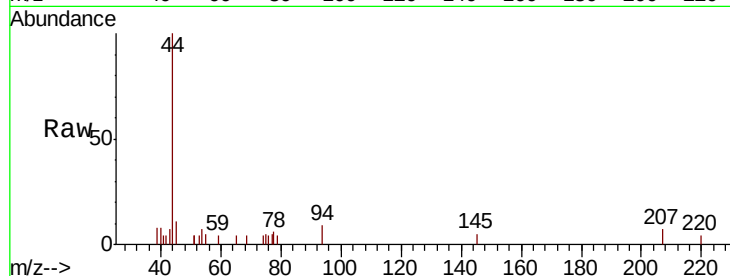
CP-MW4-W-8-10-SOIL

Tgt Ion: 74 Resp: 377

Ion Ratio Lower Upper

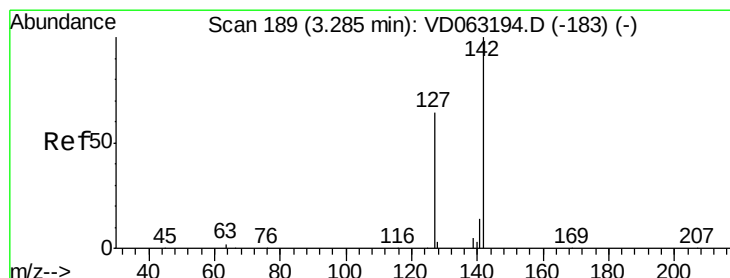
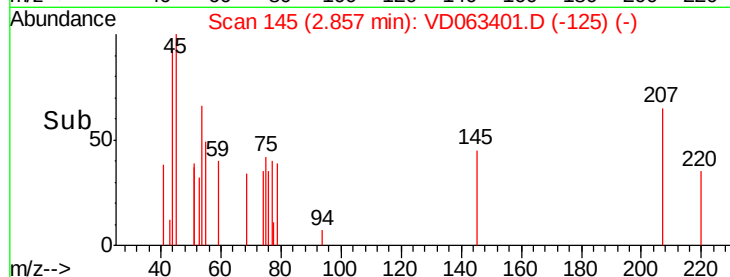
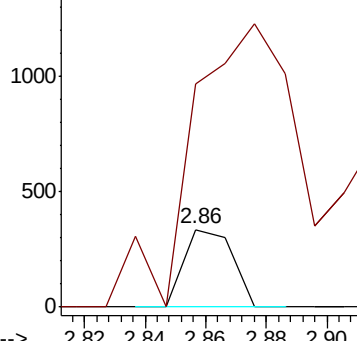
74 100

45 286.1 73.6 220.8#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#10

Methyl Iodide

Concen: 1.603 ug/l

RT: 3.33 min Scan# 193

Delta R.T. 0.04 min

Lab File: VD063401.D

Acq: 6 Aug 2019 16:15

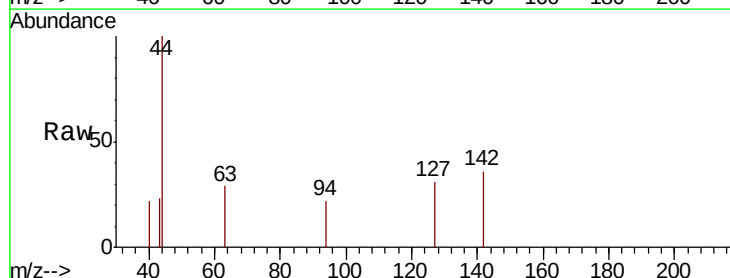
Tgt Ion: 142 Resp: 741

Ion Ratio Lower Upper

142 100

127 83.8 50.8 76.2#

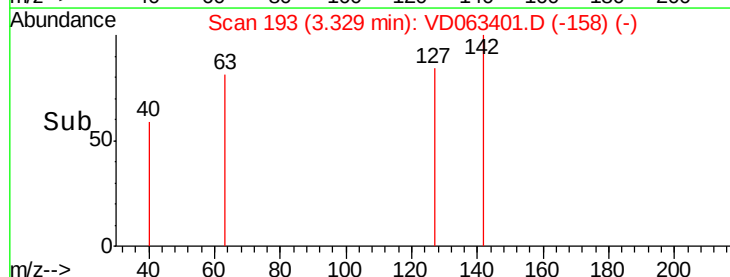
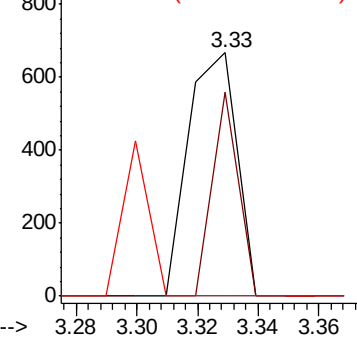
141 0.0 11.4 17.2#

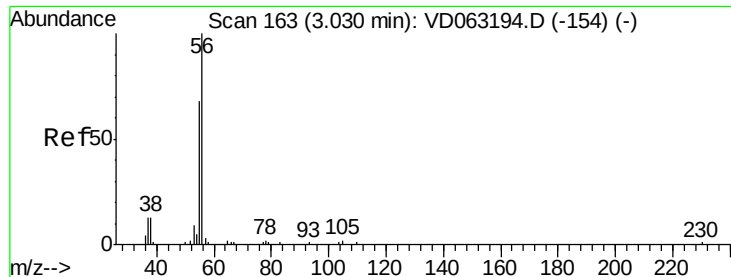


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#13

Acrolein

Concen: 27.903 ug/l

RT: 3.03 min Scan# 163

Delta R.T. 0.00 min

Lab File: VD063401.D

Acq: 6 Aug 2019 16:15

Instrument :

MSVOA_D

ClientSampleId :

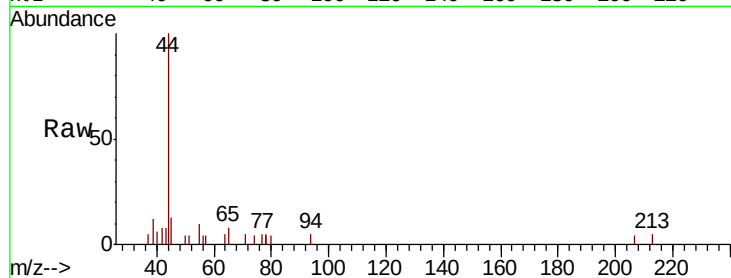
CP-MW4-W-8-10-SOIL

Tgt Ion: 56 Resp: 396

Ion Ratio Lower Upper

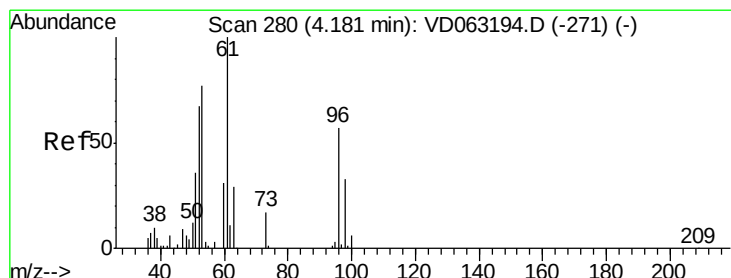
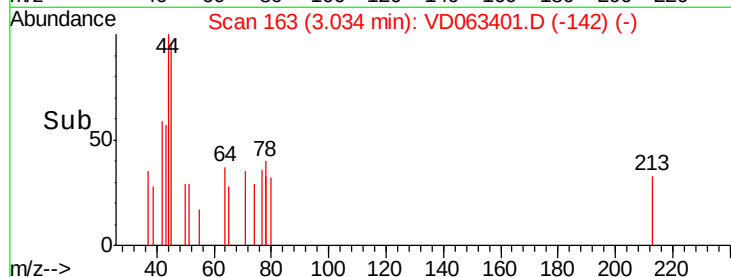
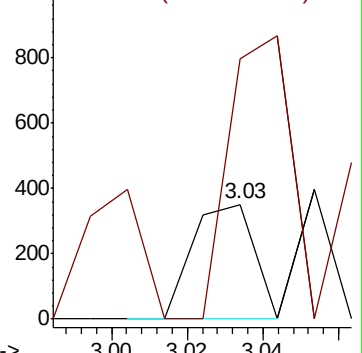
56 100

55 227.4 55.3 82.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#15

Acrylonitrile

Concen: 9.050 ug/l

RT: 4.20 min Scan# 281

Delta R.T. 0.01 min

Lab File: VD063401.D

Acq: 6 Aug 2019 16:15

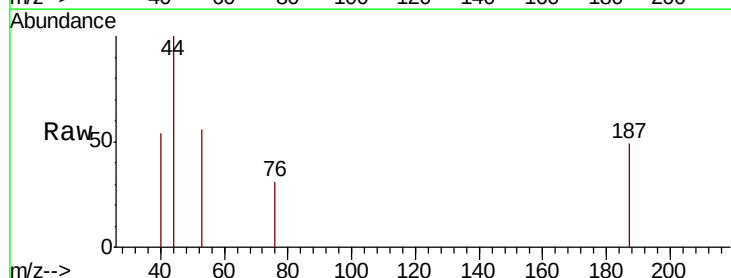
Tgt Ion: 53 Resp: 346

Ion Ratio Lower Upper

53 100

52 0.0 69.7 104.5#

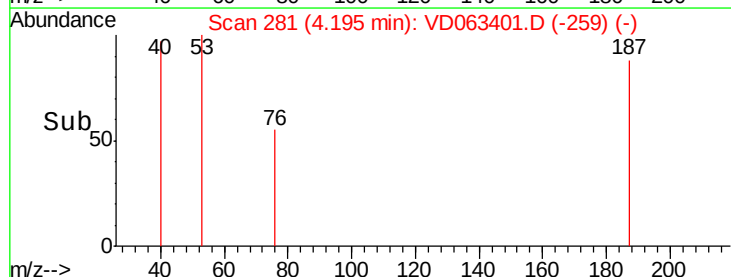
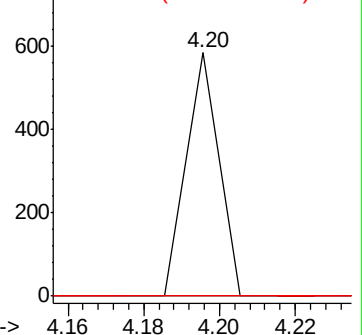
51 0.0 37.4 56.0#

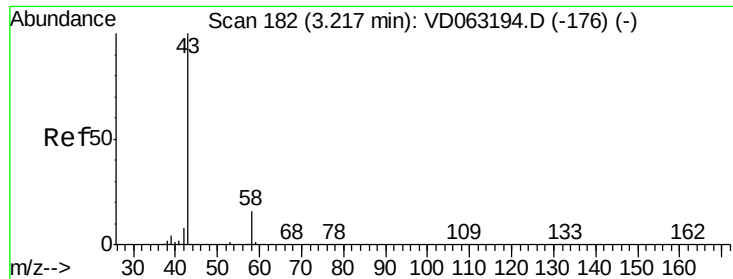


Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC

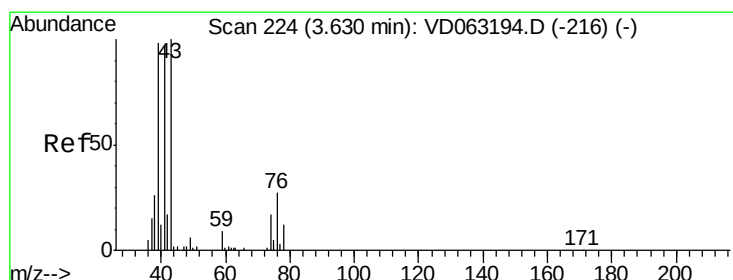
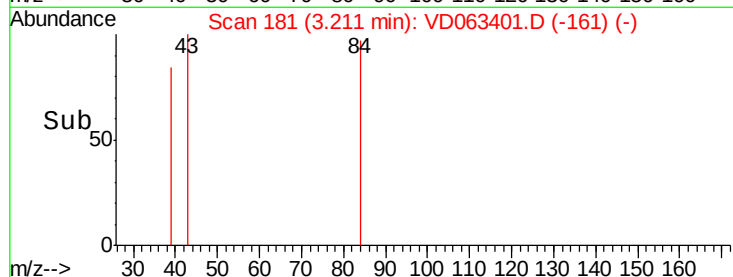
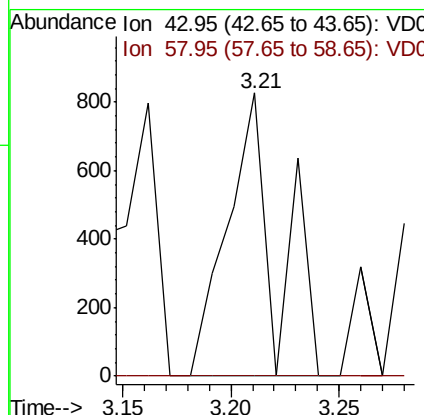
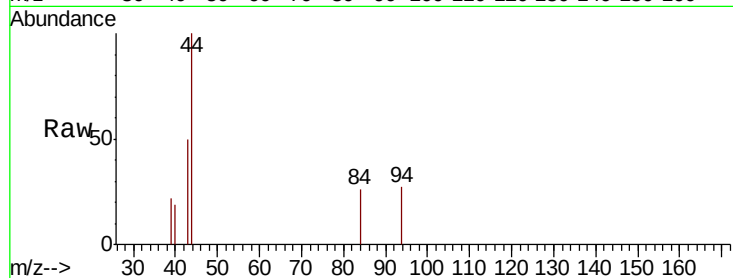




#16
Acetone
Concen: 20.360 ug/l
RT: 3.21 min Scan# 181
Delta R.T. -0.01 min
Lab File: VD063401.D
Acq: 6 Aug 2019 16:15

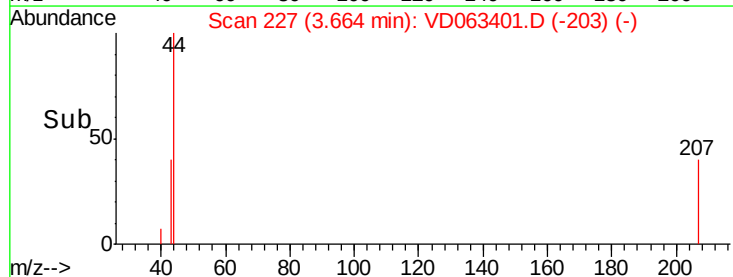
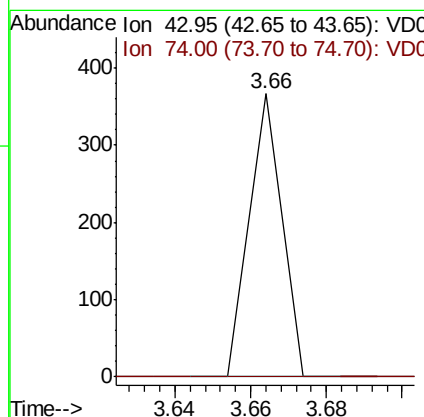
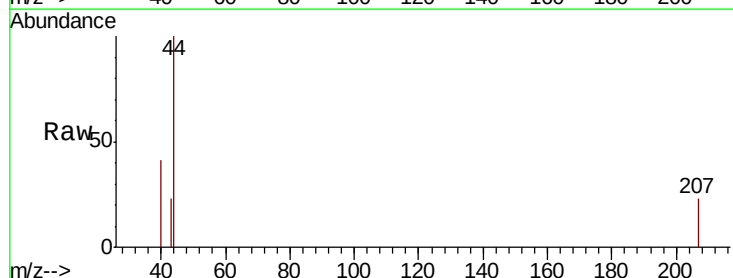
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CP-MW4-W-8-10-SOIL

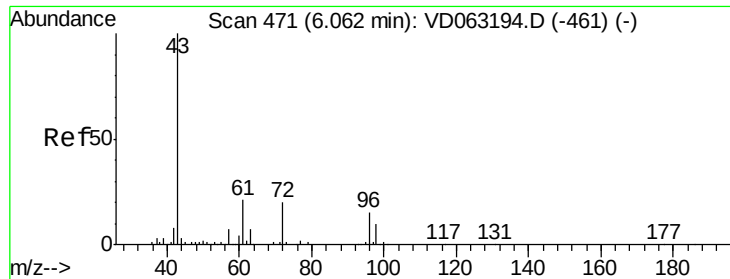
Tgt Ion: 43 Resp: 1333
Ion Ratio Lower Upper
43 100
58 0.0 13.0 19.4#



#18
Methyl Acetate
Concen: 1.726 ug/l
RT: 3.66 min Scan# 227
Delta R.T. 0.03 min
Lab File: VD063401.D
Acq: 6 Aug 2019 16:15

Tgt Ion: 43 Resp: 217
Ion Ratio Lower Upper
43 100
74 0.0 13.8 20.8#





#25

2-Butanone

Concen: 5.022 ug/l

RT: 6.08 min Scan# 472

Delta R.T. 0.01 min

Lab File: VD063401.D

Acq: 6 Aug 2019 16:15

Instrument :

MSVOA_D

ClientSampleId :

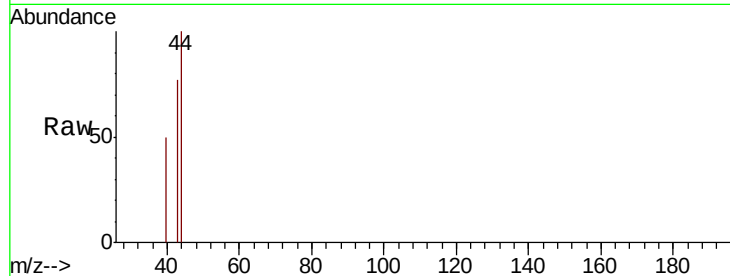
CP-MW4-W-8-10-SOIL

Tgt Ion: 43 Resp: 330

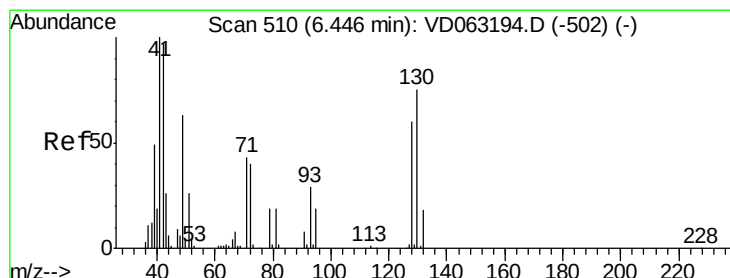
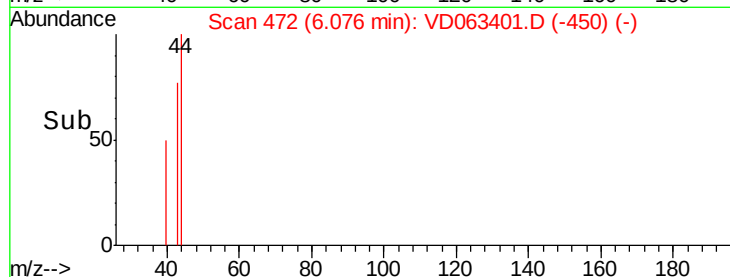
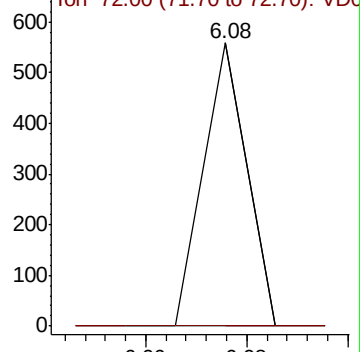
Ion Ratio Lower Upper

43 100

72 0.0 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC



#29

Tetrahydrofuran

Concen: 296.027 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD063401.D

Acq: 6 Aug 2019 16:15

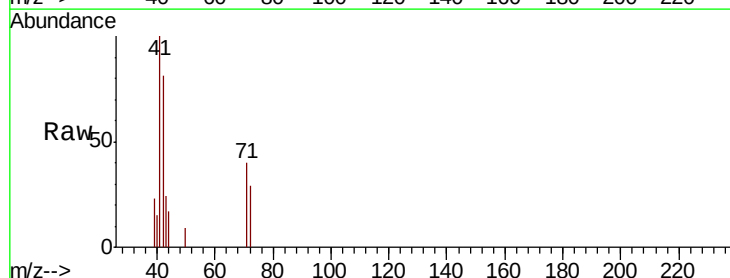
Tgt Ion: 42 Resp: 9209

Ion Ratio Lower Upper

42 100

72 34.8 33.4 50.2

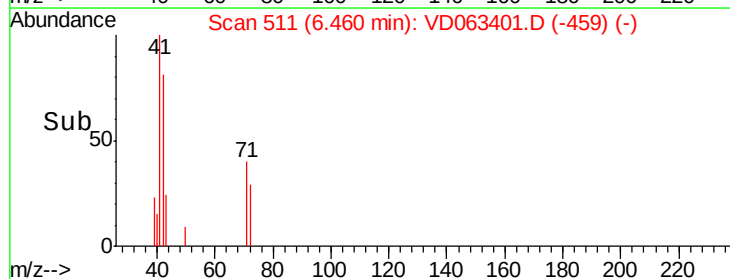
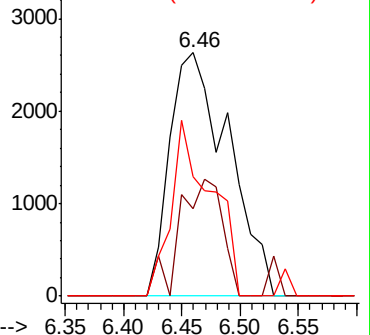
71 49.0 35.7 53.5

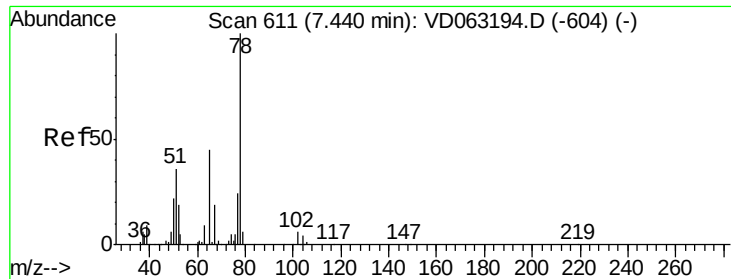


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

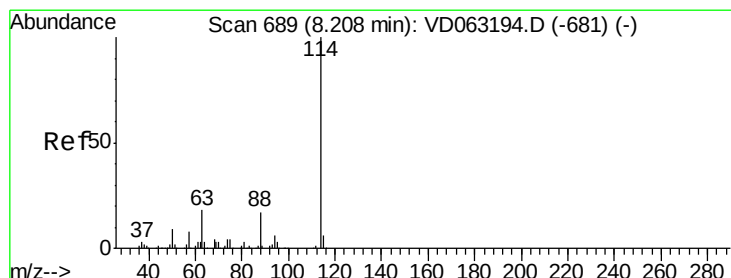
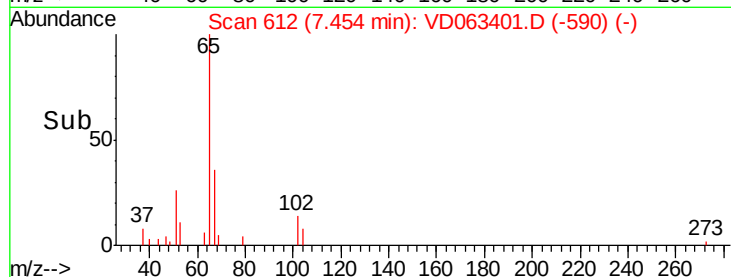
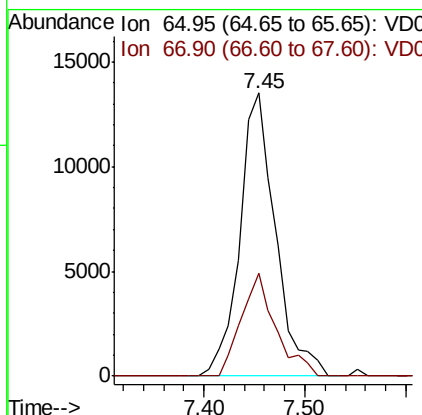
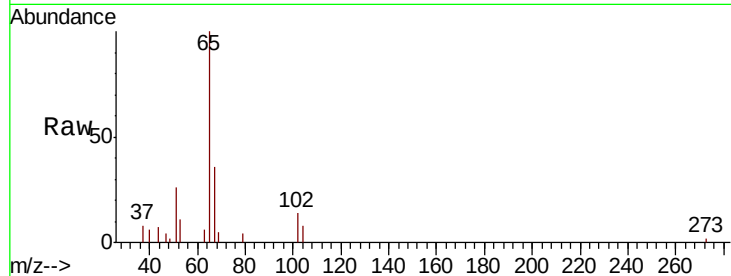




#33
 1,2-Dichloroethane-d4
 Concen: 99.301 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.01 min
 Lab File: VD063401.D
 Acq: 6 Aug 2019 16:15

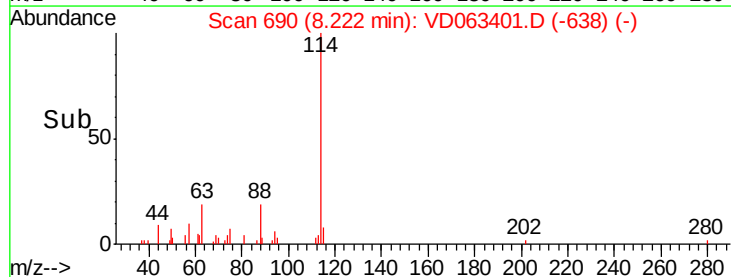
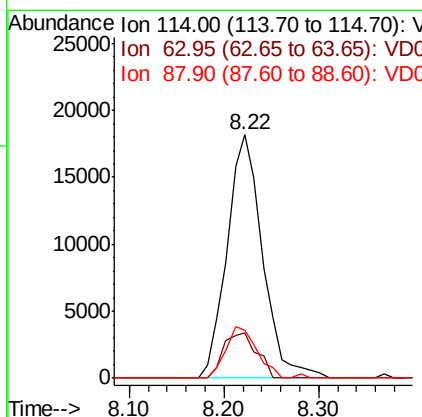
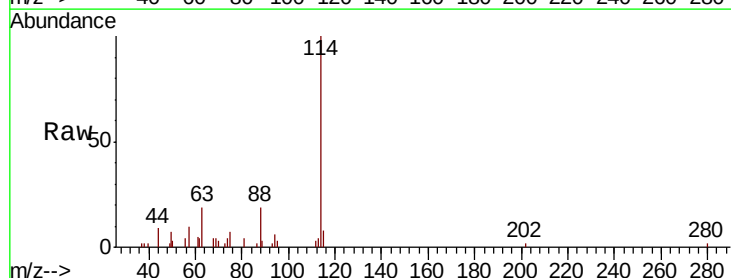
Instrument :
 MSVOA_D
 ClientSampleId :
 CP-MW4-W-8-10-SOIL

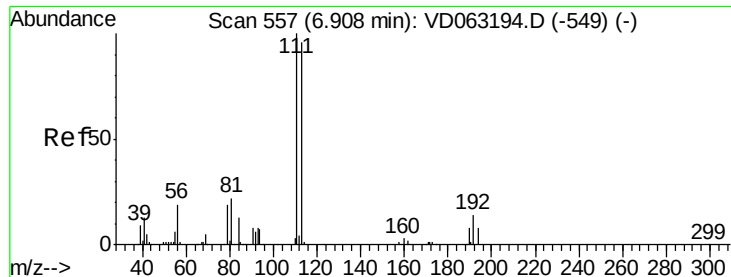
Tgt Ion: 65 Resp: 33368
 Ion Ratio Lower Upper
 65 100
 67 36.3 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063401.D
 Acq: 6 Aug 2019 16:15

Tgt Ion: 114 Resp: 47060
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 35.2
 88 19.5 0.0 34.6





#35

Dibromofluoromethane

Concen: 63.120 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.01 min

Lab File: VD063401.D

Acq: 6 Aug 2019 16:15

Instrument :

MSVOA_D

ClientSampleId :

CP-MW4-W-8-10-SOIL

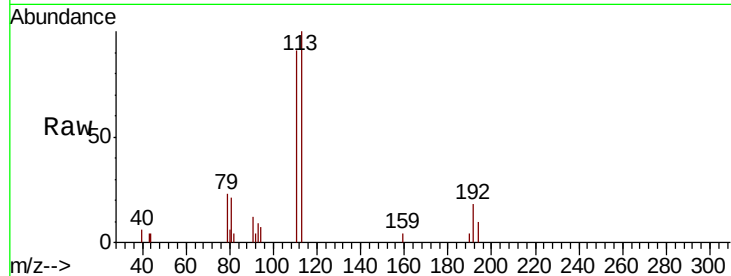
Tgt Ion:113 Resp: 25361

Ion Ratio Lower Upper

113 100

111 91.0 83.2 124.8

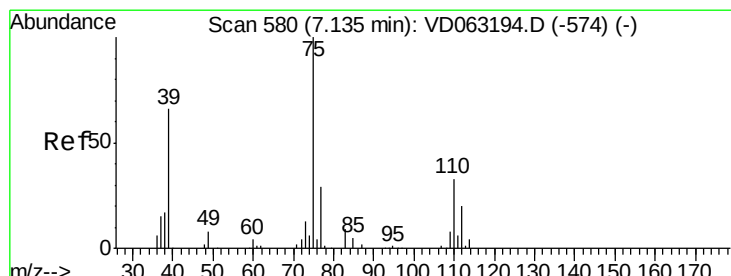
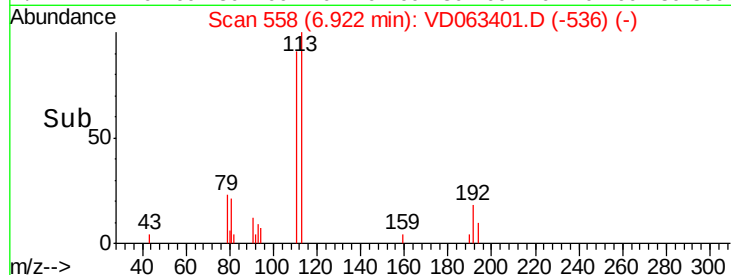
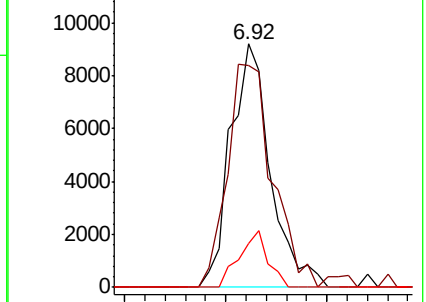
192 18.3 11.8 17.8#



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: 4.671 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063401.D

Acq: 6 Aug 2019 16:15

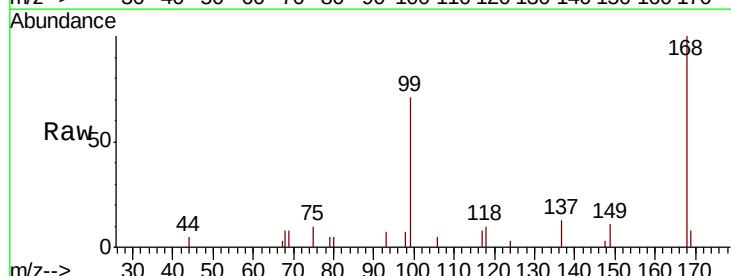
Tgt Ion: 75 Resp: 2006

Ion Ratio Lower Upper

75 100

110 0.0 16.1 48.2#

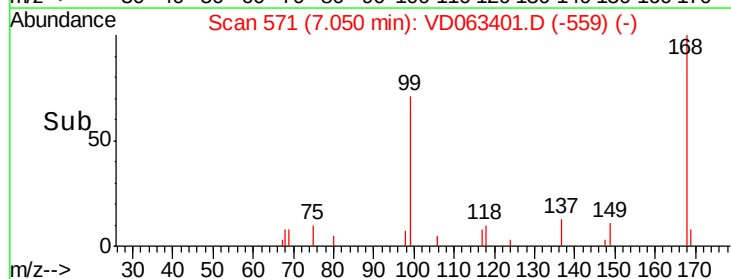
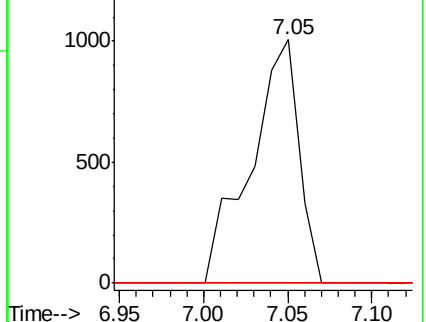
77 0.0 22.7 34.1#

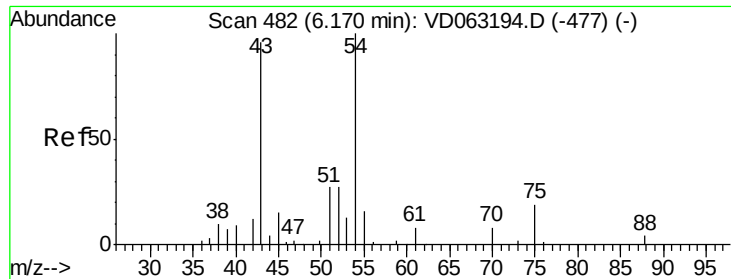


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

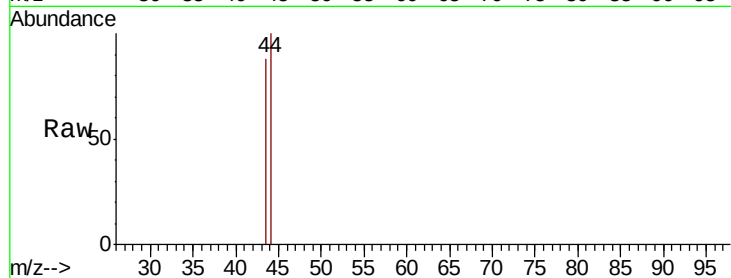




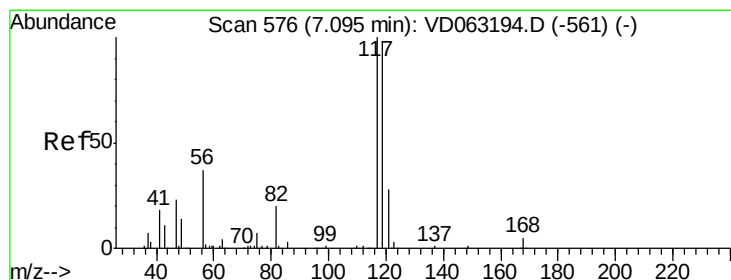
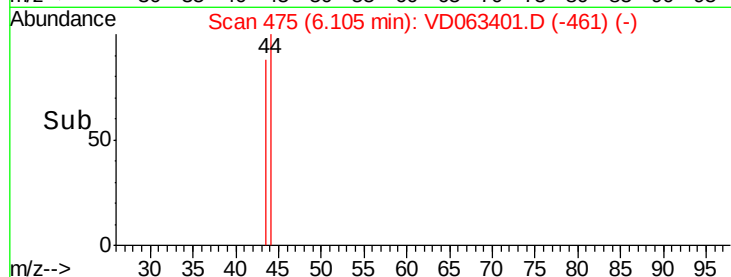
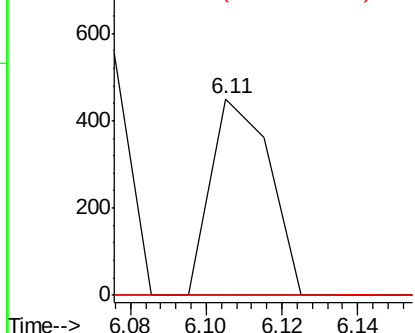
#37
Ethyl Acetate
Concen: 2.483 ug/l
RT: 6.11 min Scan# 475
Delta R.T. -0.06 min
Lab File: VD063401.D
Acq: 6 Aug 2019 16:15

Instrument :
MSVOA_D
ClientSampleId :
CP-MW4-W-8-10-SOIL

Tgt Ion: 43 Resp: 479
Ion Ratio Lower Upper
43 100
61 0.0 11.3 16.9#
70 0.0 5.1 7.7#

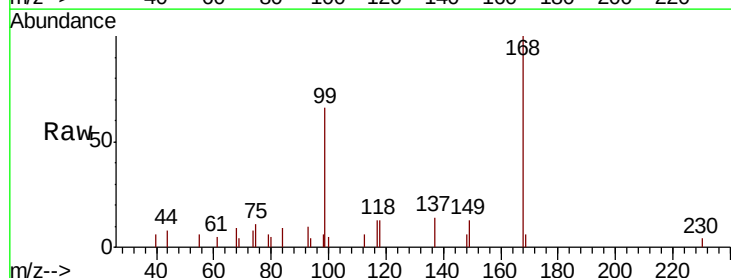


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

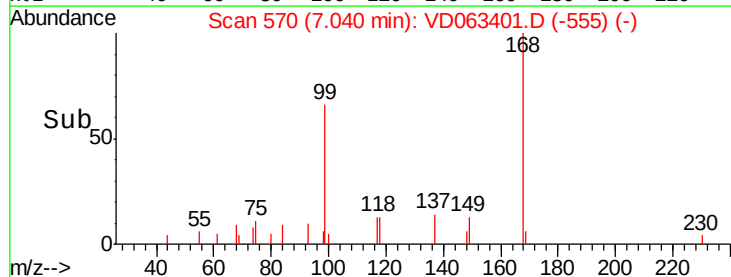
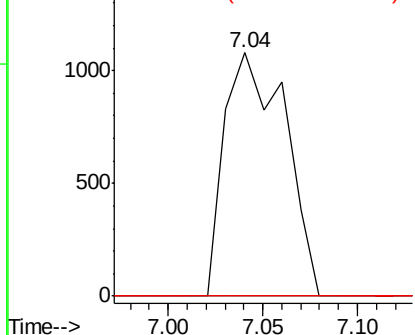


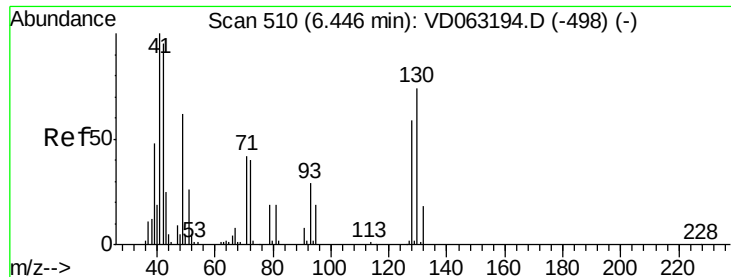
#38
Carbon Tetrachloride
Concen: 3.721 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.05 min
Lab File: VD063401.D
Acq: 6 Aug 2019 16:15

Tgt Ion: 117 Resp: 2406
Ion Ratio Lower Upper
117 100
119 0.0 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





#41

Methacrylonitrile

Concen: 34.817 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD063401.D

Acq: 6 Aug 2019 16:15

Instrument :

MSVOA_D

ClientSampleId :

CP-MW4-W-8-10-SOIL

Tgt Ion: 41 Resp: 8036

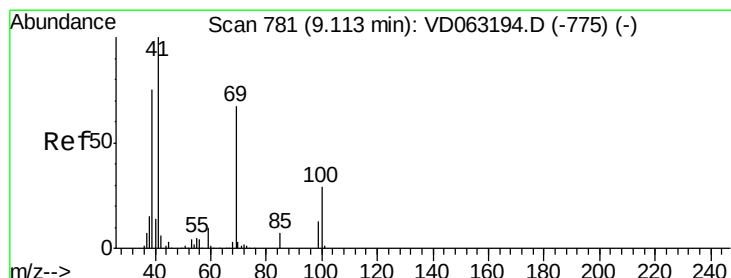
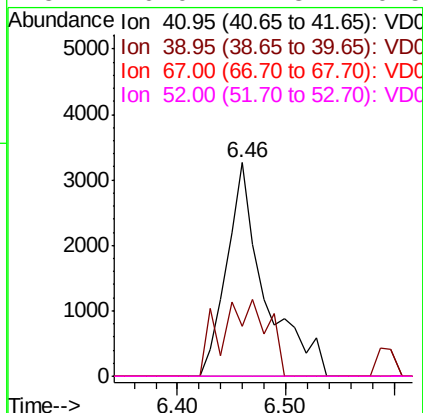
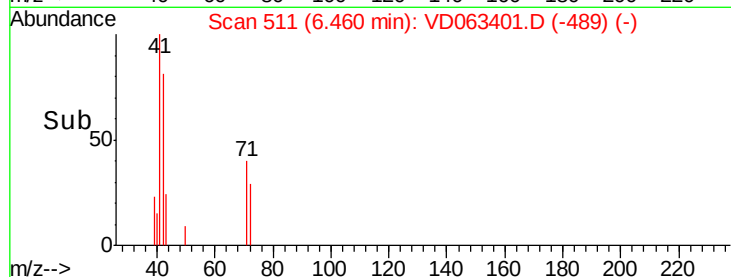
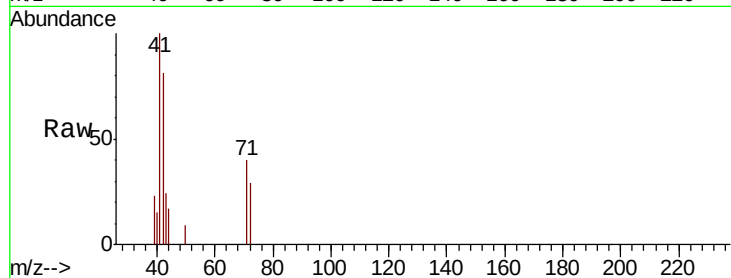
Ion Ratio Lower Upper

41 100

39 23.4 38.4 57.6#

67 0.0 6.7 10.1#

52 0.0 4.3 6.5#



#48

Methyl methacrylate

Concen: 1.295 ug/l

RT: 9.11 min Scan# 780

Delta R.T. -0.01 min

Lab File: VD063401.D

Acq: 6 Aug 2019 16:15

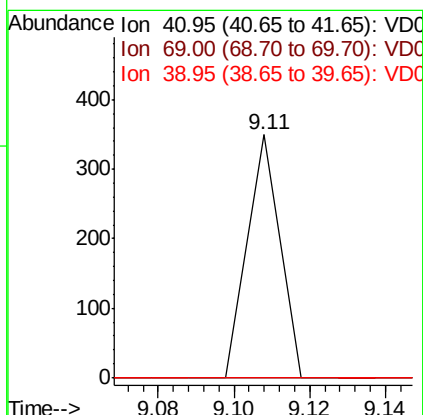
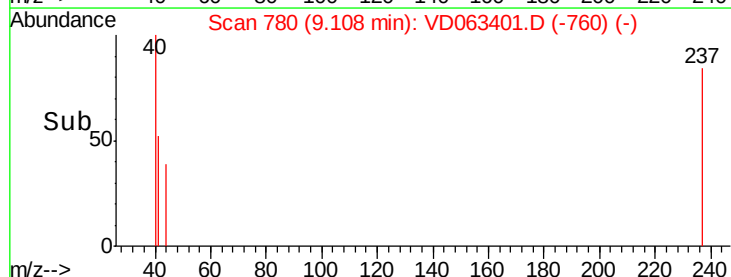
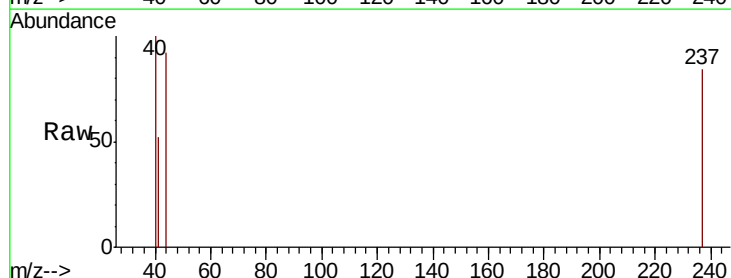
Tgt Ion: 41 Resp: 207

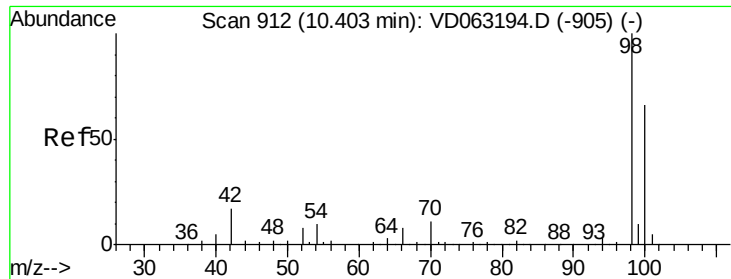
Ion Ratio Lower Upper

41 100

69 0.0 53.4 80.0#

39 0.0 60.3 90.5#

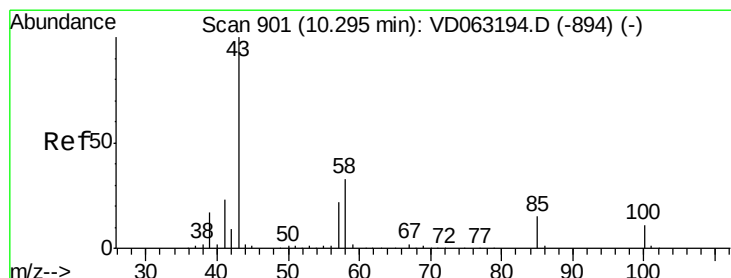
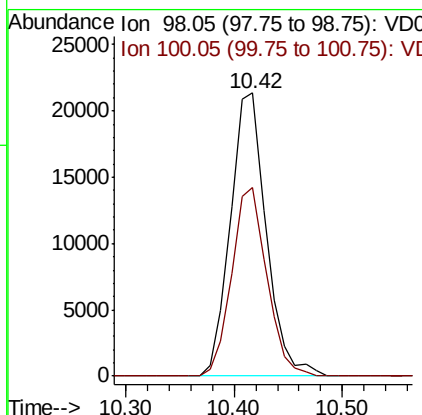
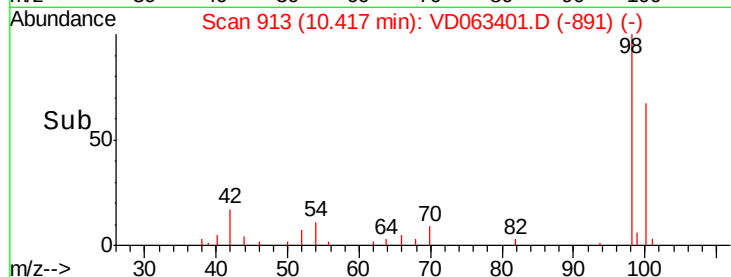
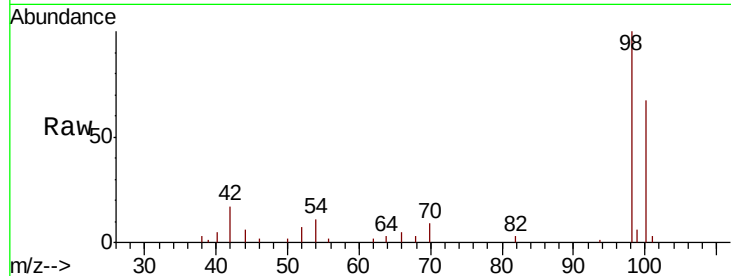




#50
Toluene-d8
Concen: 54.744 ug/l
RT: 10.42 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063401.D
Acq: 6 Aug 2019 16:15

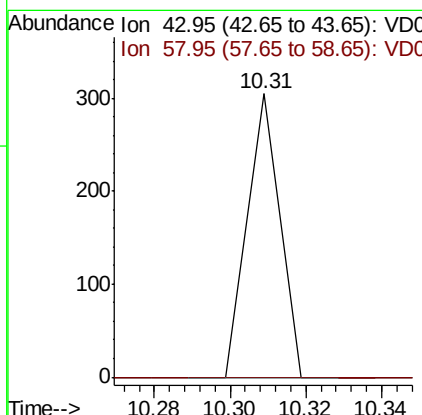
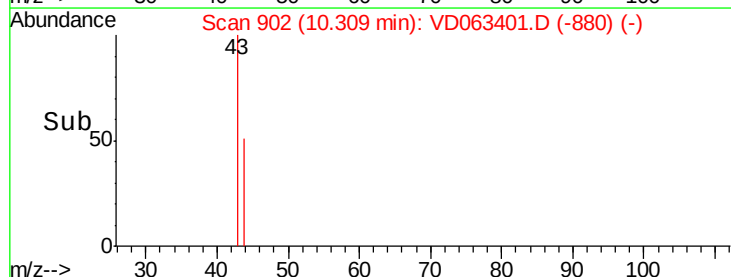
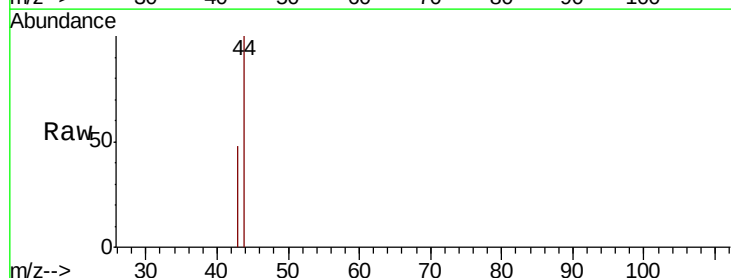
Instrument :
MSVOA_D
ClientSampleId :
CP-MW4-W-8-10-SOIL

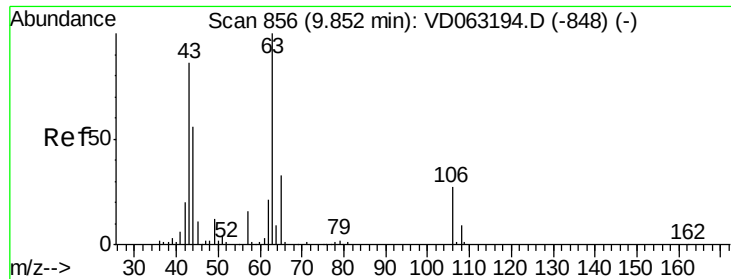
Tgt Ion: 98 Resp: 49226
Ion Ratio Lower Upper
98 100
100 66.8 53.2 79.8



#51
4-Methyl-2-Pentanone
Concen: 1.074 ug/l
RT: 10.31 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD063401.D
Acq: 6 Aug 2019 16:15

Tgt Ion: 43 Resp: 180
Ion Ratio Lower Upper
43 100
58 0.0 26.2 39.2#

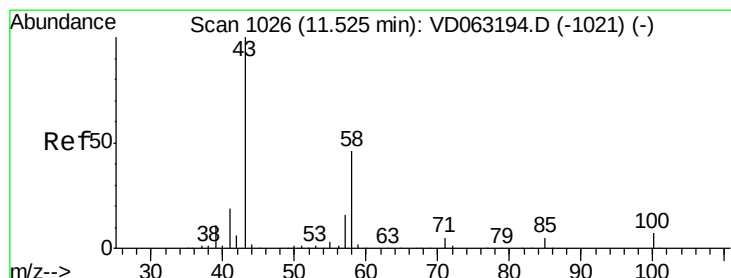
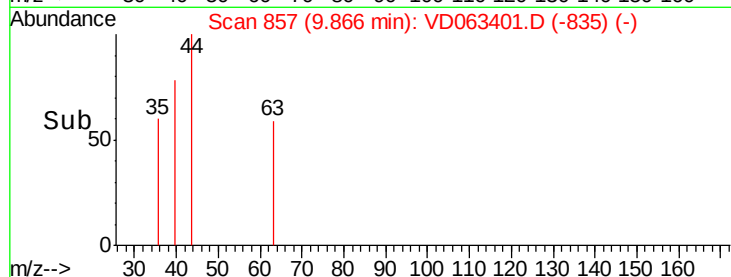
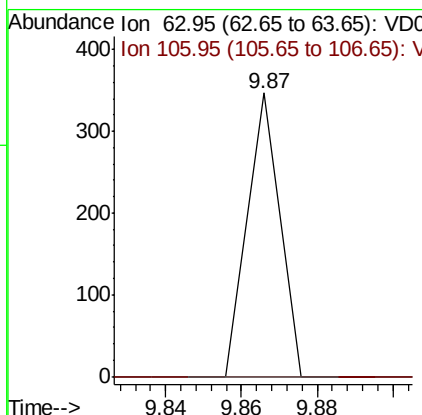
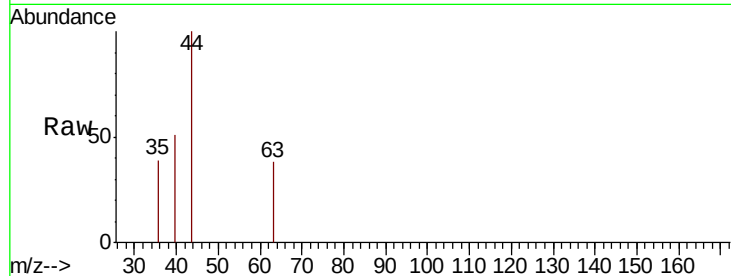




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.779 ug/l
 RT: 9.87 min Scan# 857
 Delta R.T. 0.01 min
 Lab File: VD063401.D
 Acq: 6 Aug 2019 16:15

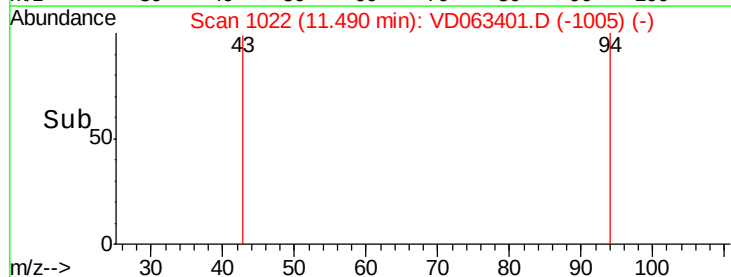
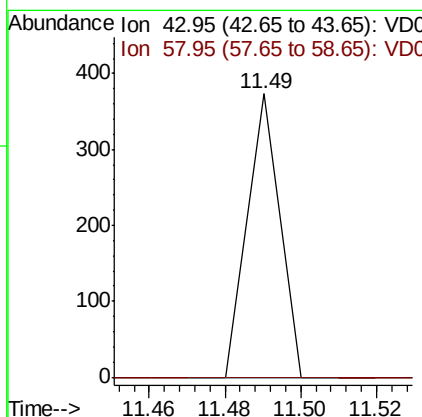
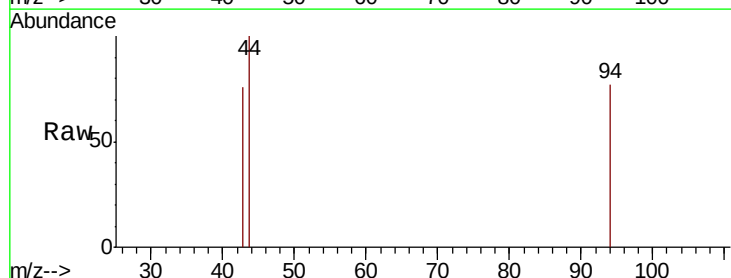
Instrument :
 MSVOA_D
 ClientSampleId :
 CP-MW4-W-8-10-SOIL

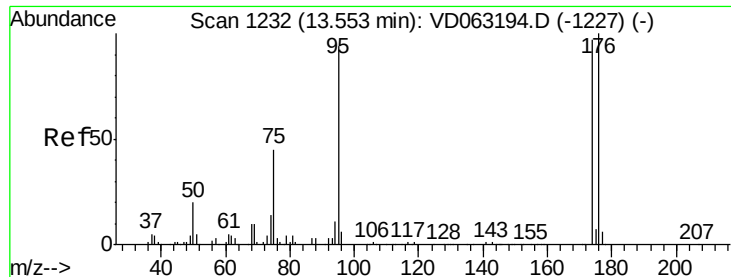
Tgt Ion: 63 Resp: 205
 Ion Ratio Lower Upper
 63 100
 106 0.0 22.0 33.0#



#59
 2-Hexanone
 Concen: 1.821 ug/l
 RT: 11.49 min Scan# 1022
 Delta R.T. -0.04 min
 Lab File: VD063401.D
 Acq: 6 Aug 2019 16:15

Tgt Ion: 43 Resp: 220
 Ion Ratio Lower Upper
 43 100
 58 0.0 22.9 68.5#

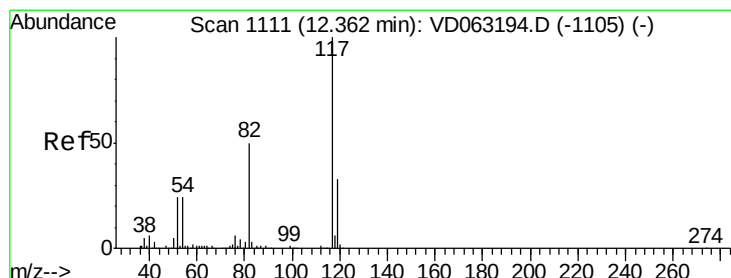
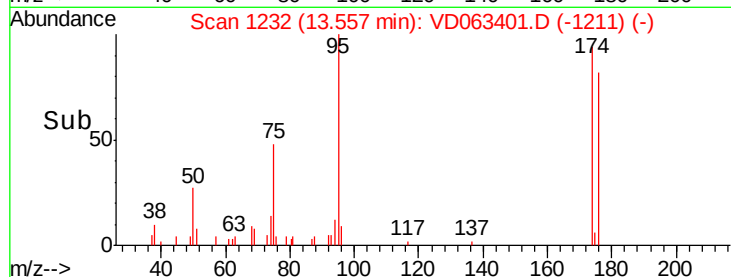
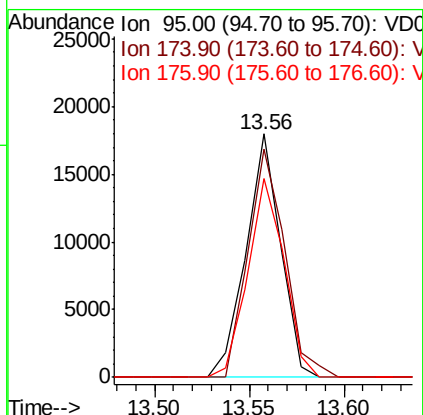
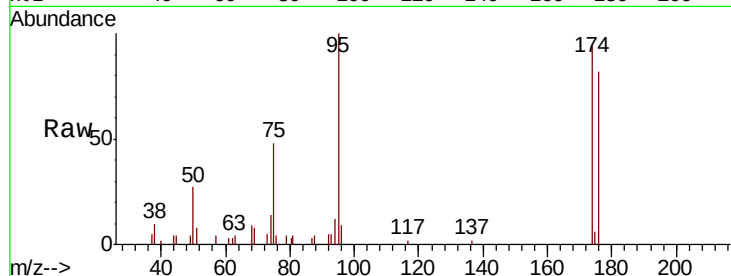




#62
4-Bromofluorobenzene
Concen: 55.344 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD063401.D
Acq: 6 Aug 2019 16:15

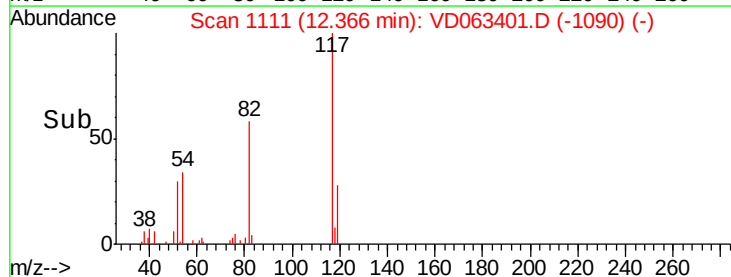
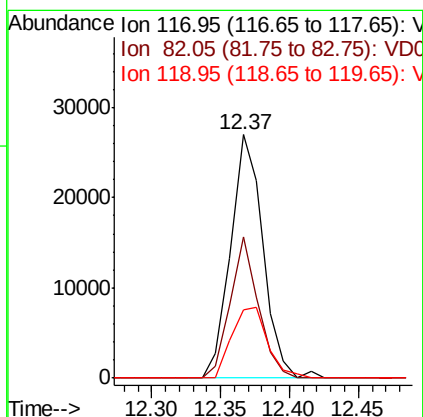
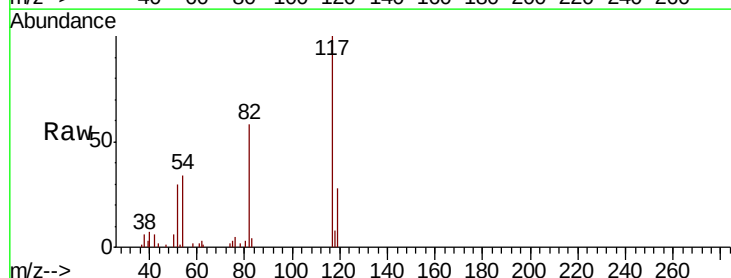
Instrument :
MSVOA_D
ClientSampleId :
CP-MW4-W-8-10-SOIL

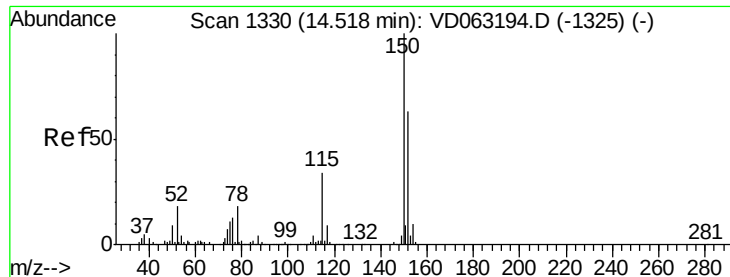
Tgt Ion: 95 Resp: 22678
Ion Ratio Lower Upper
95 100
174 93.8 0.0 205.4
176 81.6 0.0 211.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063401.D
Acq: 6 Aug 2019 16:15

Tgt Ion: 117 Resp: 44097
Ion Ratio Lower Upper
117 100
82 57.9 40.1 60.1
119 28.3 26.5 39.7

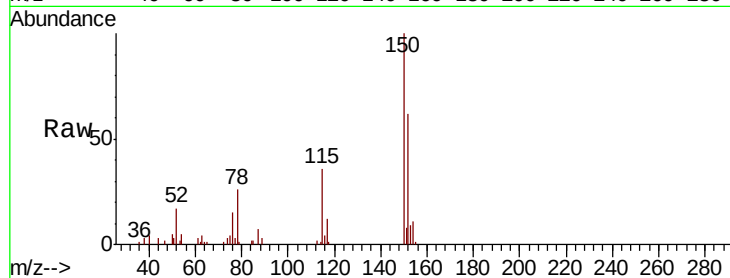




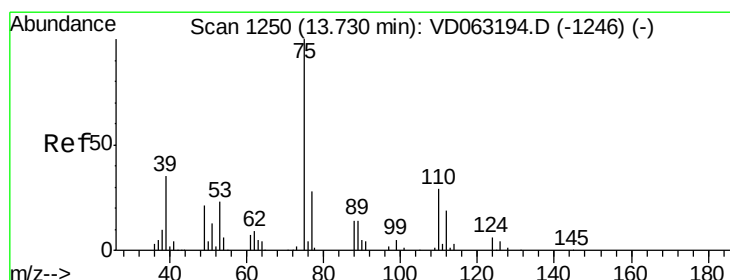
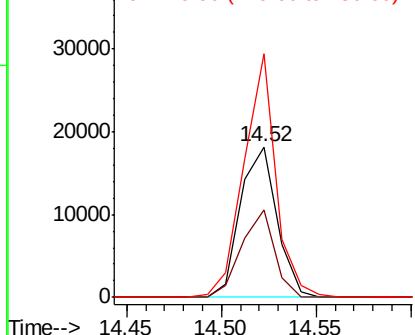
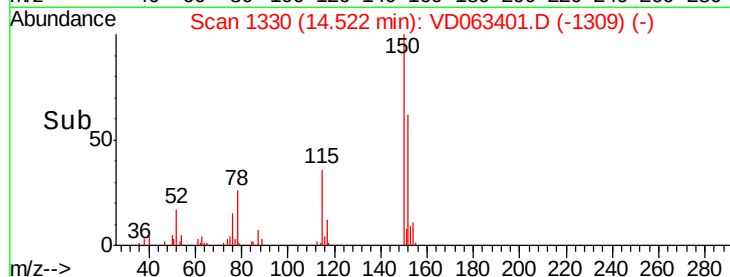
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. 0.00 min
 Lab File: VD063401.D
 Acq: 6 Aug 2019 16:15

Instrument :
 MSVOA_D
 ClientSampleId :
 CP-MW4-W-8-10-SOIL

Tgt Ion:152 Resp: 24280
 Ion Ratio Lower Upper
 152 100
 115 58.7 27.5 82.4
 150 162.1 0.0 320.6

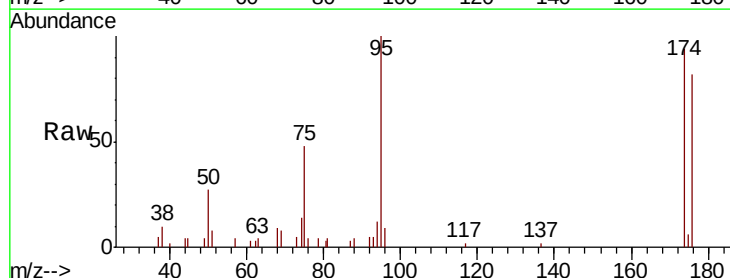


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V

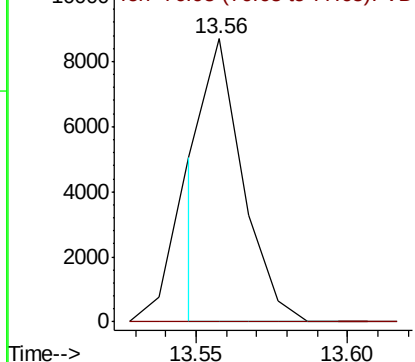
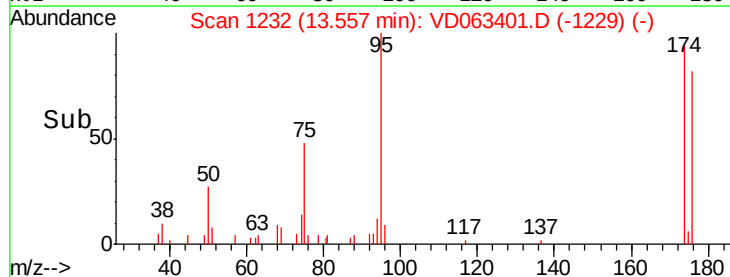


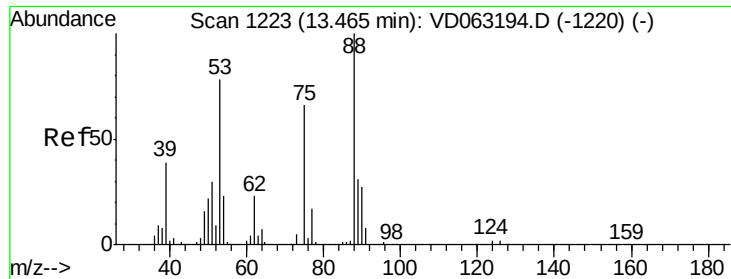
#76
 1,2,3-Trichloropropane
 Concen: 25.607 ug/l
 RT: 13.56 min Scan# 1232
 Delta R.T. -0.17 min
 Lab File: VD063401.D
 Acq: 6 Aug 2019 16:15

Tgt Ion: 75 Resp: 7468
 Ion Ratio Lower Upper
 75 100
 77 0.0 16.0 48.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 134.661 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063401.D

Acq: 6 Aug 2019 16:15

Instrument :

MSVOA_D

ClientSampleId :

CP-MW4-W-8-10-SOIL

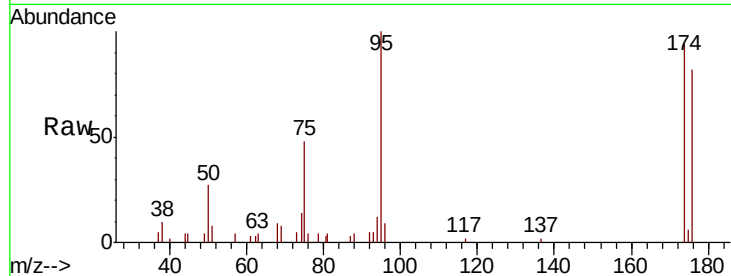
Tgt Ion: 75 Resp: 10905

Ion Ratio Lower Upper

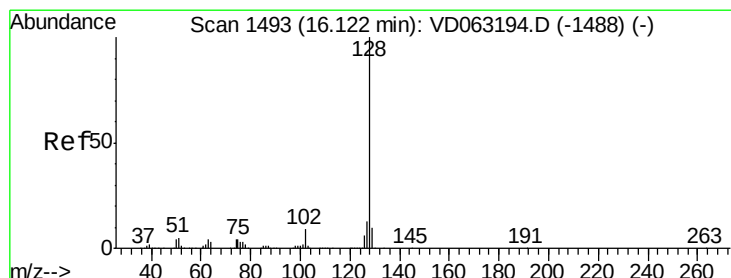
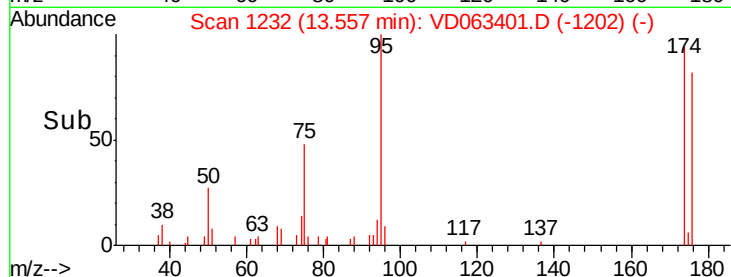
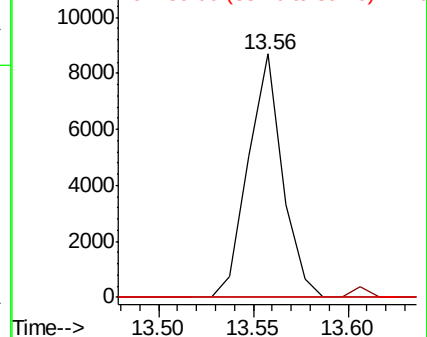
75 100

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



#95

Naphthalene

Concen: 2.744 ug/l

RT: 16.13 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD063401.D

Acq: 6 Aug 2019 16:15

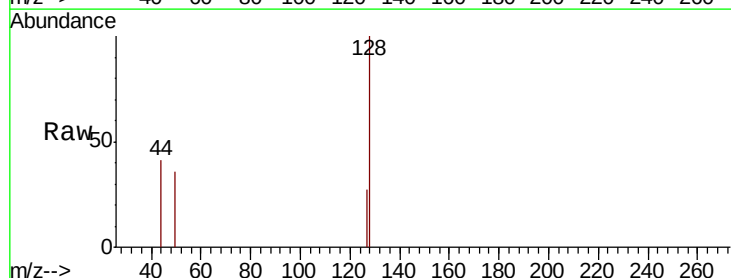
Tgt Ion: 128 Resp: 2061

Ion Ratio Lower Upper

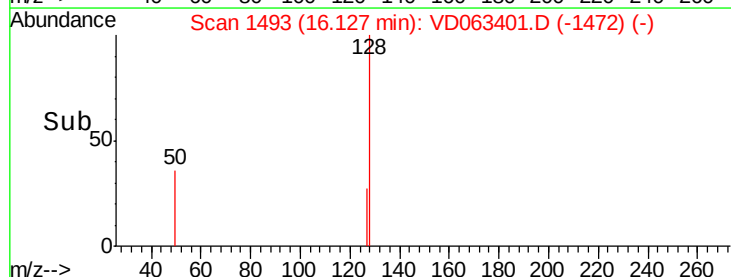
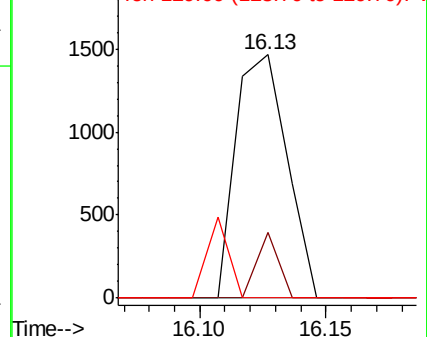
128 100

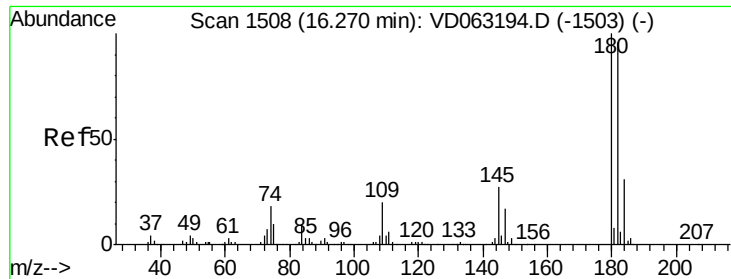
127 27.1 10.2 15.4#

129 0.0 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





#96
 1,2,3-Trichlorobenzene
 Concen: 1.365 ug/l
 RT: 16.26 min Scan# 1507
 Delta R.T. -0.01 min
 Lab File: VD063401.D
 Acq: 6 Aug 2019 16:15

Instrument :
 MSVOA_D
 ClientSampleId :
 CP-MW4-W-8-10-SOIL

Tgt Ion:180 Resp: 573
 Ion Ratio Lower Upper
 180 100
 182 52.6 48.3 144.9
 145 0.0 13.6 40.7#

