

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD010220\
 Data File : VD064720.D
 Acq On : 02 Jan 2020 16:29
 Operator : VA/SY
 Sample : K6469-01RE
 Misc : 5.08G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 174-NC-TOPSOIL-001RE

Quant Time: Jan 03 00:25:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	274501	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	427938	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	361261	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	123839	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	150987	62.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.76%	
35) Dibromofluoromethane	7.92	113	143359	54.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.20%	
50) Toluene-d8	10.34	98	504228	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
62) 4-Bromofluorobenzene	12.64	95	134663	42.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.70%	

Target Compounds

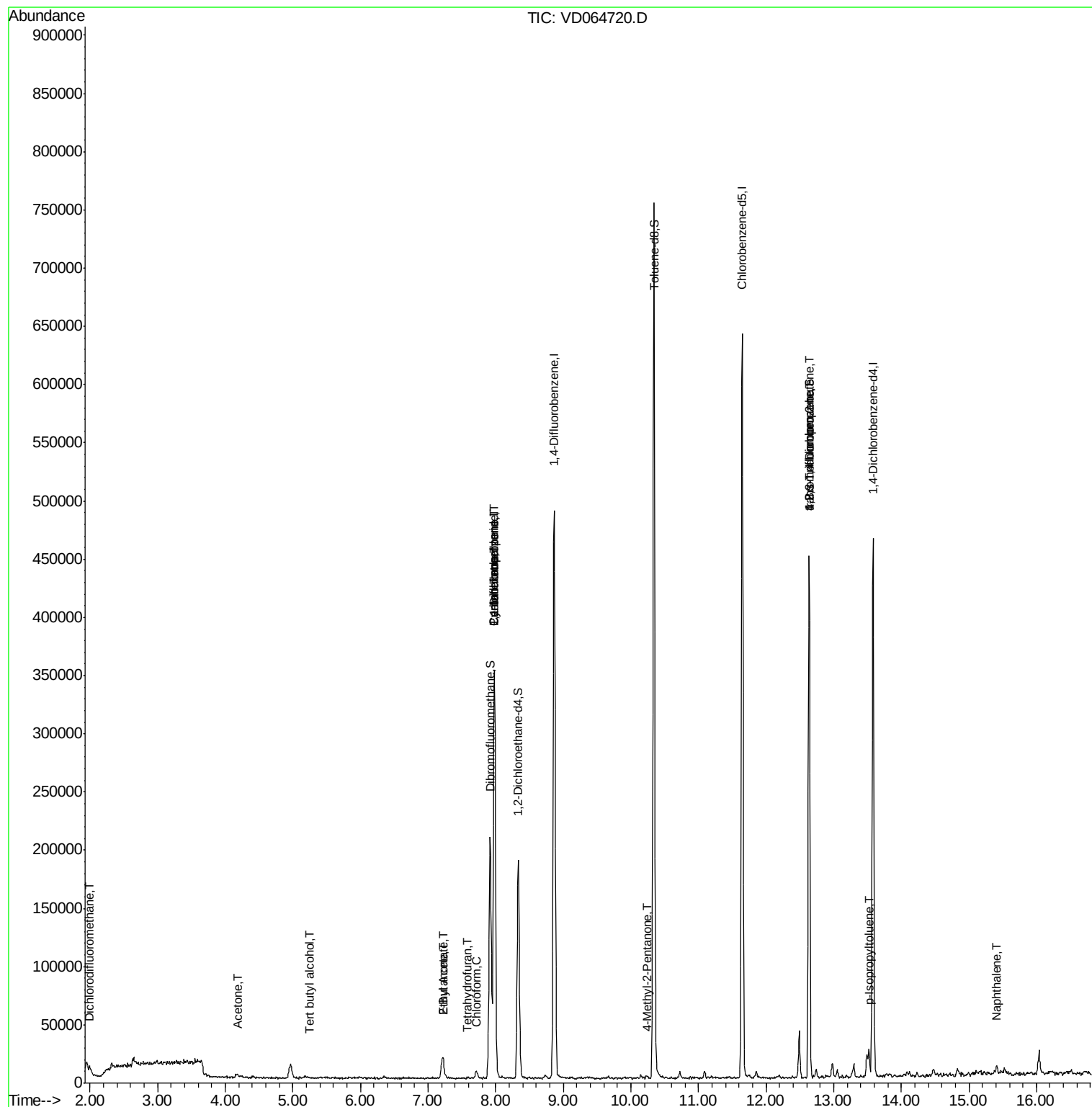
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	3249	1.523	ug/l	96
11) Tert butyl alcohol	5.25	59	374	2.696	ug/l #	70
16) Acetone	4.18	43	5686	14.024	ug/l	96
20) Methylene Chloride	4.97	84	8713	Below Cal	#	89
25) 2-Butanone	7.23	43	2527	3.798	ug/l #	49
29) Tetrahydrofuran	7.58	42	416	1.005	ug/l #	46
30) Chloroform	7.71	83	6012	1.271	ug/l	96
31) Cyclohexane	7.98	56	6457	1.431	ug/l #	45
36) 1,1-Dichloropropene	7.98	75	20999	5.098	ug/l #	50
37) Ethyl Acetate	7.23	43	2527	1.562	ug/l #	67
38) Carbon Tetrachloride	7.98	117	24841	5.656	ug/l #	16
51) 4-Methyl-2-Pentanone	10.23	43	1991	1.251	ug/l #	64
76) 1,2,3-Trichloropropane	12.64	75	72473	74.110	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	72473	154.999	ug/l #	10
86) p-Isopropyltoluene	13.52	119	12766	1.543	ug/l	96
95) Naphthalene	15.41	128	6518	1.583	ug/l #	89

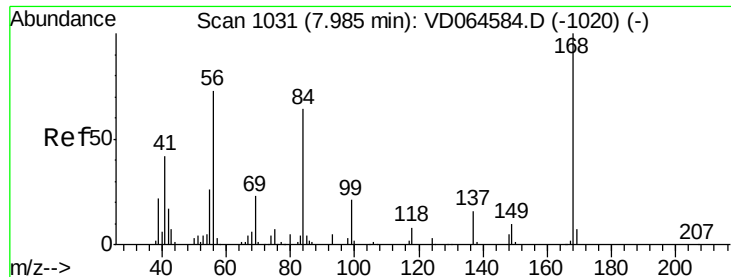
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064720.D

Acq: 02 Jan 2020 16:29

Instrument :

MSVOA_D

ClientSampleId :

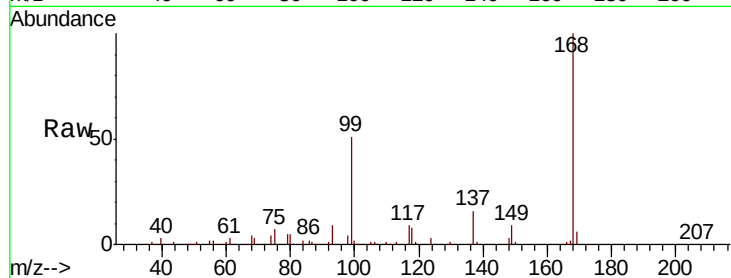
174-NC-TOPSOIL-001RE

Tot Ion:168 Resp: 274501

Ion Ratio Lower Upper

168 100

99 50.8 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

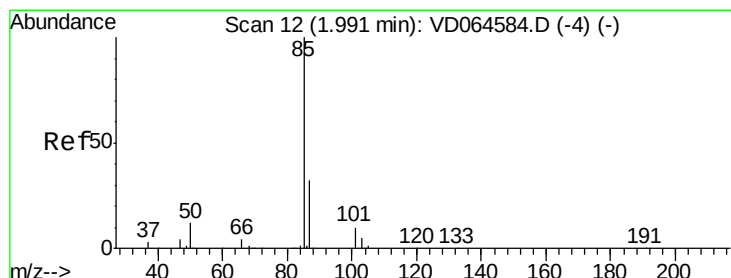
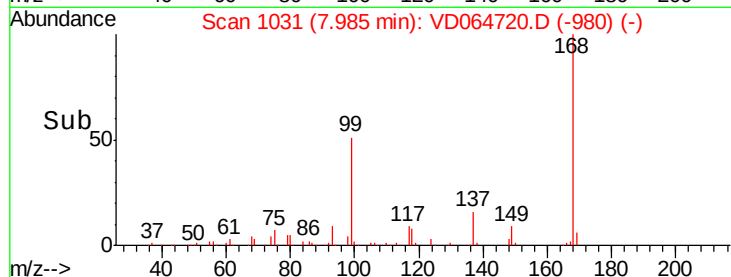
7.98

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.523 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064720.D

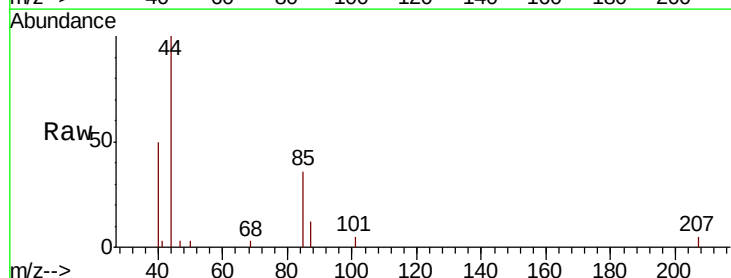
Acq: 02 Jan 2020 16:29

Tgt Ion: 85 Resp: 3249

Ion Ratio Lower Upper

85 100

87 34.3 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

2500

2000

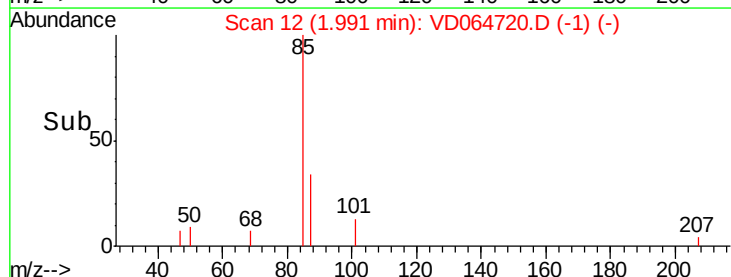
1500

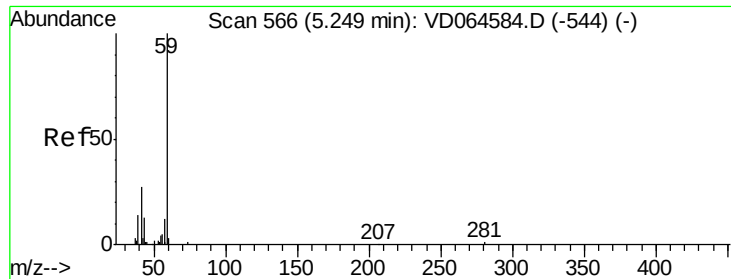
1000

500

0

Time-->

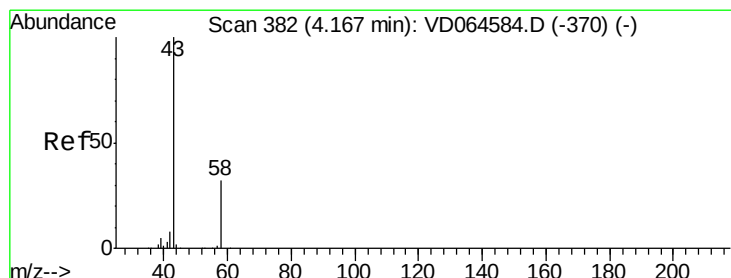
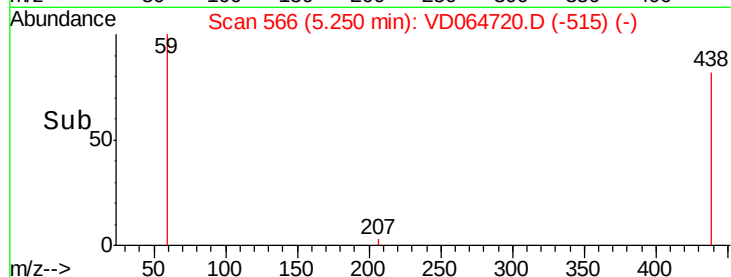
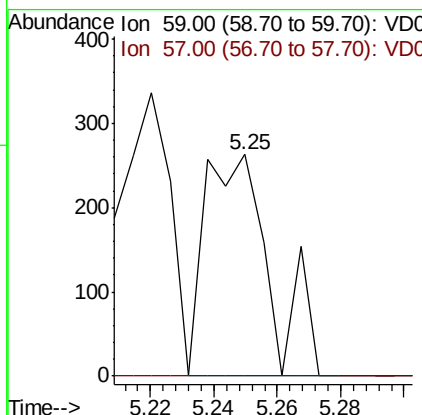
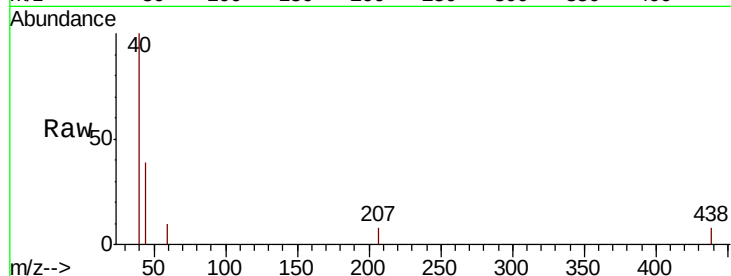




#11
Tert butyl alcohol
Concen: 2.696 ug/l
RT: 5.25 min Scan# 566
Delta R.T. 0.00 min
Lab File: VD064720.D
Acq: 02 Jan 2020 16:29

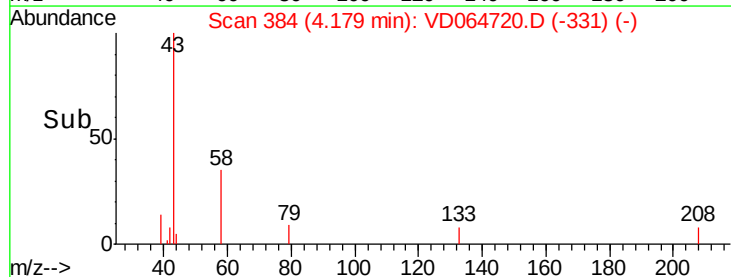
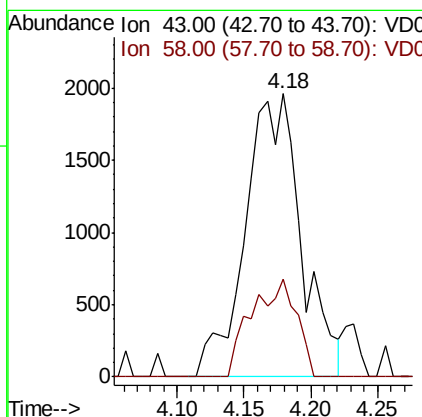
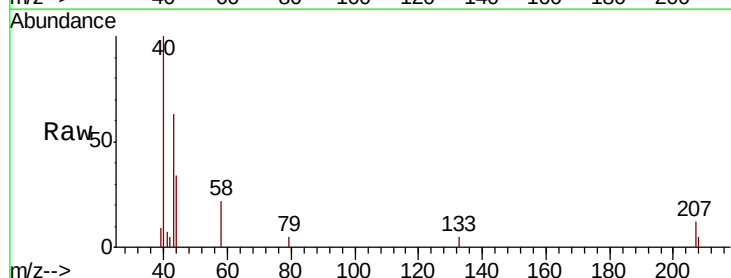
Instrument :
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174-NC-TOPSOIL-001RE

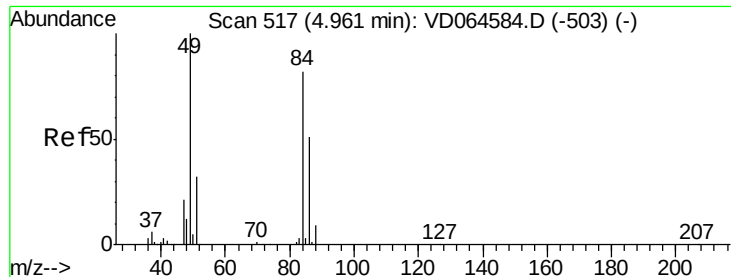
Tot Ion: 59 Resp: 374
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#



#16
Acetone
Concen: 14.024 ug/l
RT: 4.18 min Scan# 384
Delta R.T. 0.01 min
Lab File: VD064720.D
Acq: 02 Jan 2020 16:29

Tgt Ion: 43 Resp: 5686
Ion Ratio Lower Upper
43 100
58 34.7 25.8 38.6

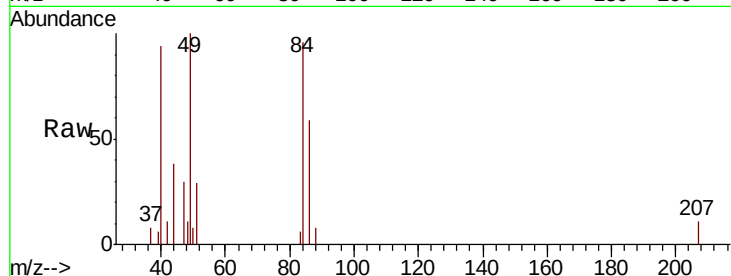




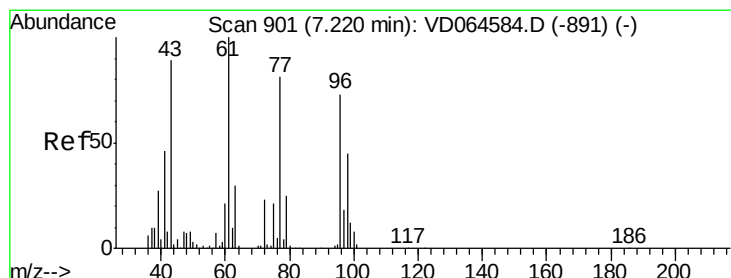
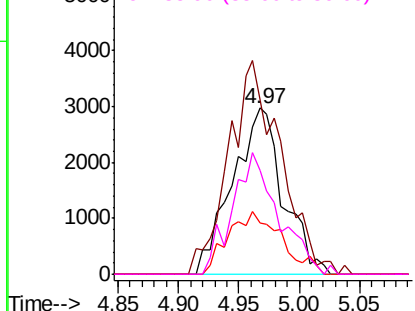
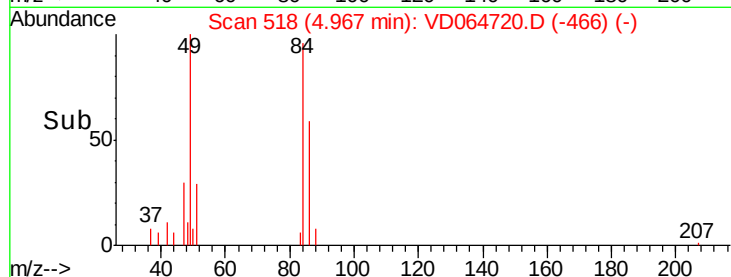
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD064720.D
Acq: 02 Jan 2020 16:29

Instrument :
MSVOA_D
ClientSampleId :
174-NC-TOPSOIL-001RE

Tot Ion: 84 Resp: 8713
Ion Ratio Lower Upper
84 100
49 104.6 97.2 145.8
51 30.5 31.4 47.0#
86 62.0 49.3 73.9

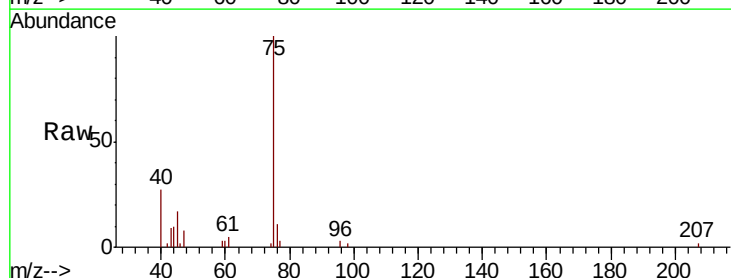


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

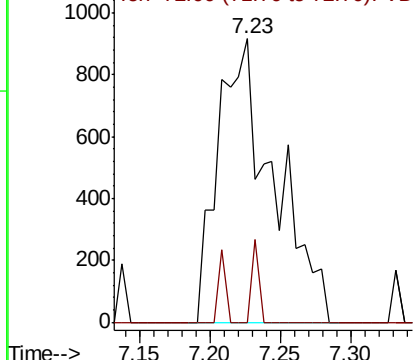
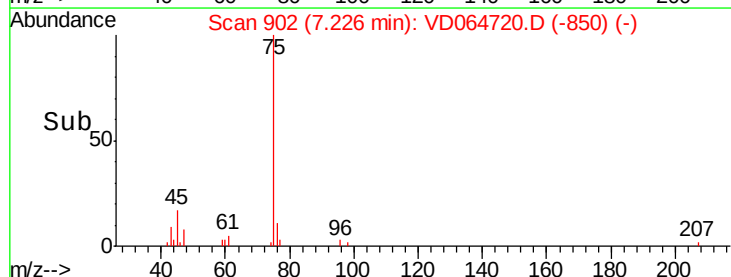


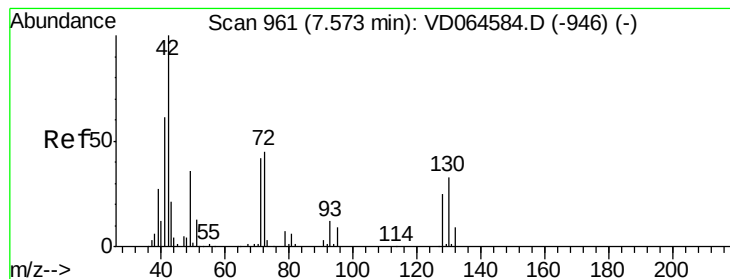
#25
2-Butanone
Concen: 3.798 ug/l
RT: 7.23 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD064720.D
Acq: 02 Jan 2020 16:29

Tgt Ion: 43 Resp: 2527
Ion Ratio Lower Upper
43 100
72 0.0 20.7 31.1#



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





#29

Tetrahydrofuran

Concen: 1.005 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.01 min

Lab File: VD064720.D

Acq: 02 Jan 2020 16:29

Instrument :

MSVOA_D

ClientSampleId :

174-NC-TOPSOIL-001RE

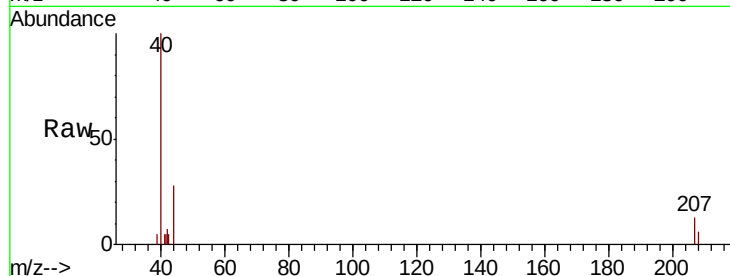
Tot Ion: 42 Resp: 416

Ion Ratio Lower Upper

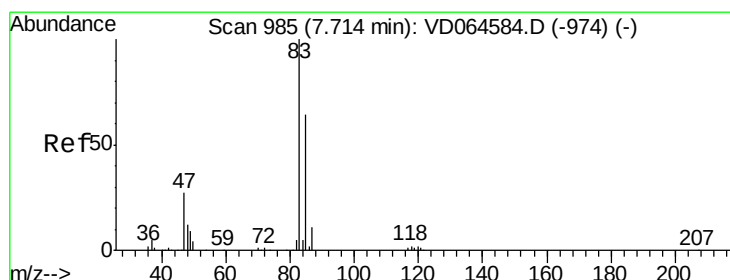
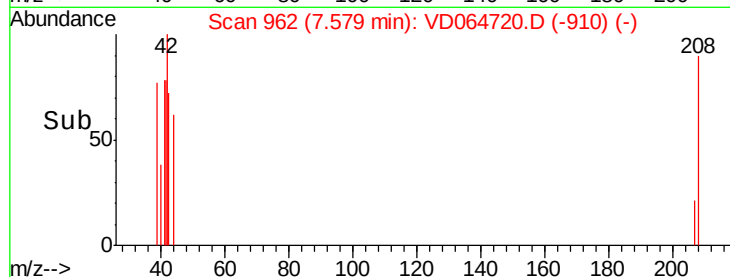
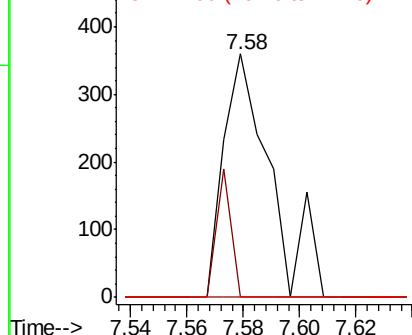
42 100

72 16.1 35.0 52.4#

71 0.0 32.9 49.3#



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



#30

Chloroform

Concen: 1.271 ug/l

RT: 7.71 min Scan# 985

Delta R.T. 0.00 min

Lab File: VD064720.D

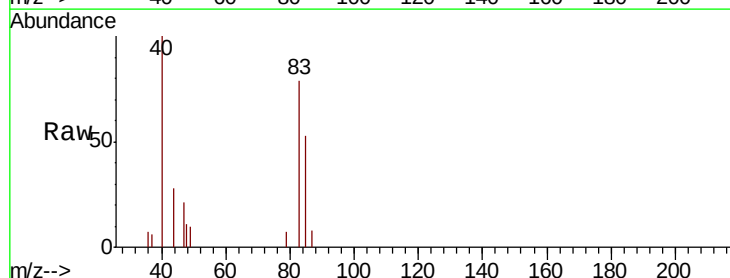
Acq: 02 Jan 2020 16:29

Tgt Ion: 83 Resp: 6012

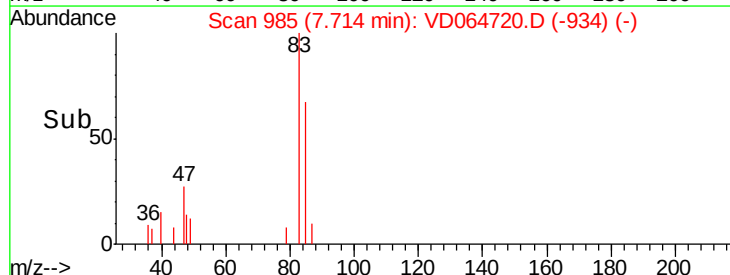
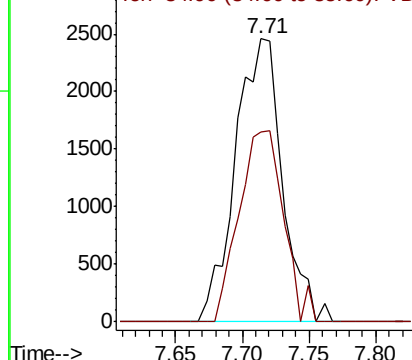
Ion Ratio Lower Upper

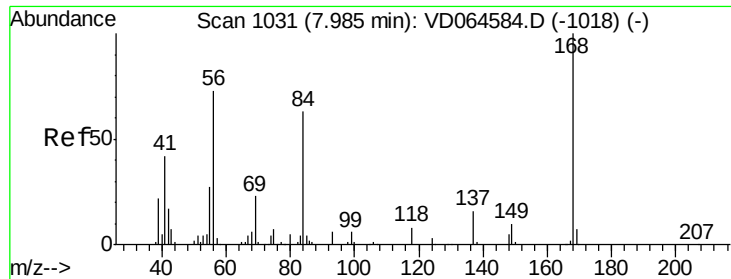
83 100

85 67.0 51.1 76.7



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC

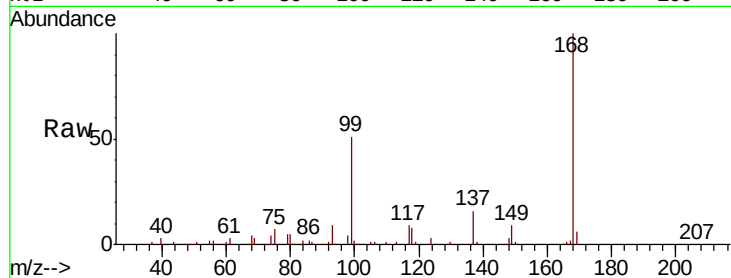




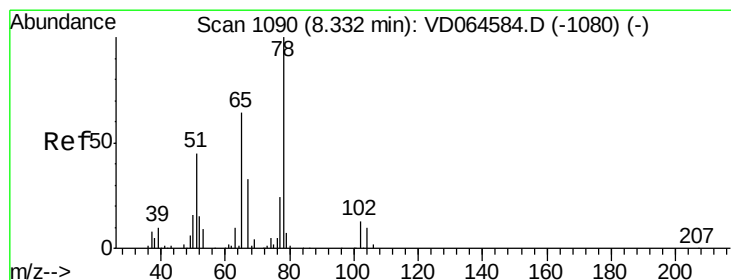
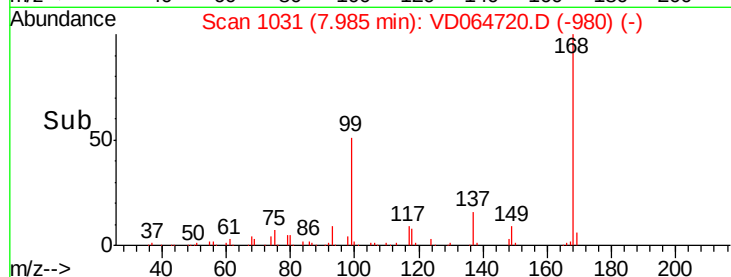
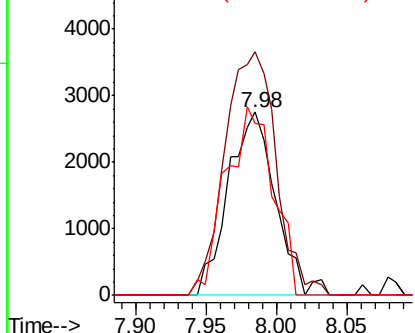
#31
Cyclohexane
Concen: 1.431 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064720.D
Acq: 02 Jan 2020 16:29

Instrument :
MSVOA_D
ClientSampleId :
174-NC-TOPSOIL-001RE

Tot Ion: 56 Resp: 6457
Ion Ratio Lower Upper
56 100
69 133.2 24.7 37.1#
84 93.8 69.4 104.2

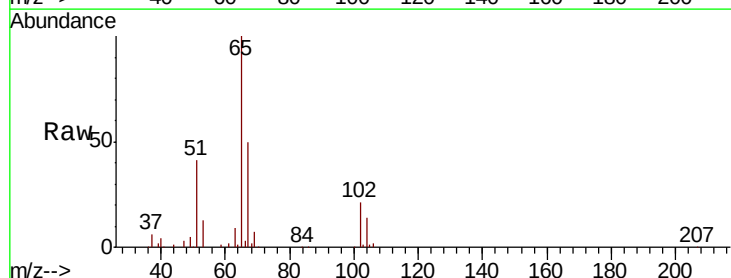


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

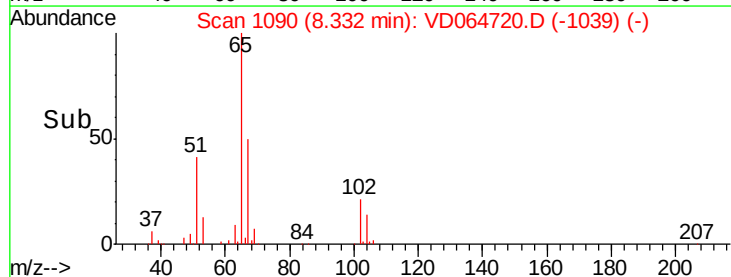
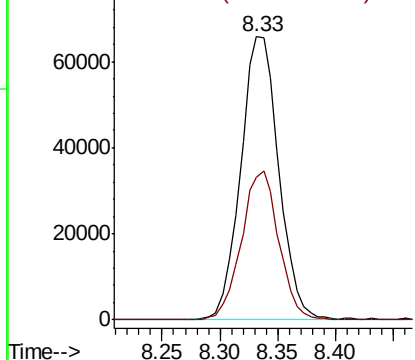


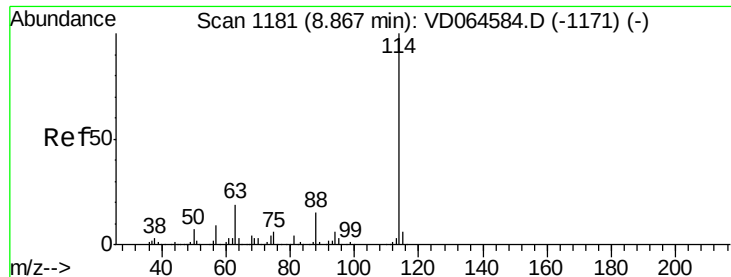
#33
1,2-Dichloroethane-d4
Concen: 62.378 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD064720.D
Acq: 02 Jan 2020 16:29

Tgt Ion: 65 Resp: 150987
Ion Ratio Lower Upper
65 100
67 51.6 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

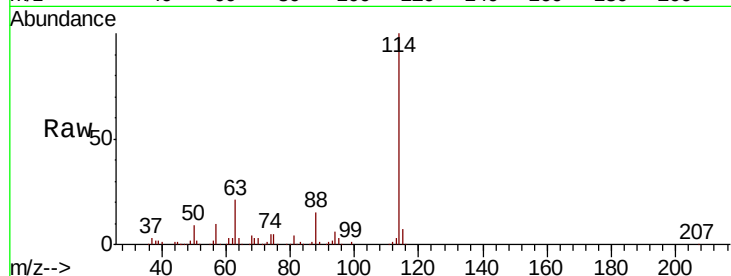




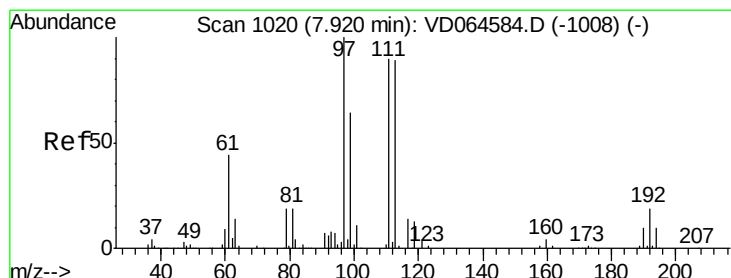
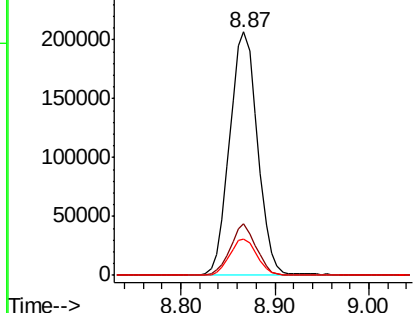
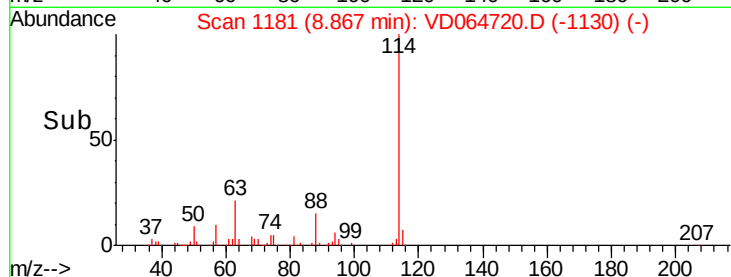
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064720.D
 Acq: 02 Jan 2020 16:29

Instrument :
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 174-NC-TOPSOIL-001RE

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	38.0
88	15.0	0.0	29.2

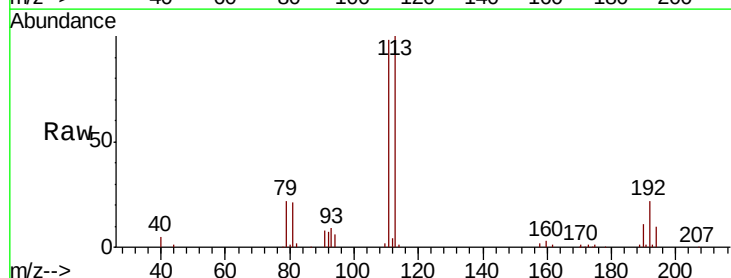


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

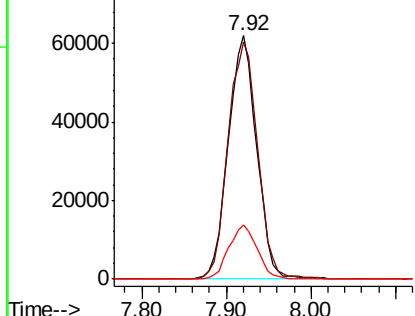
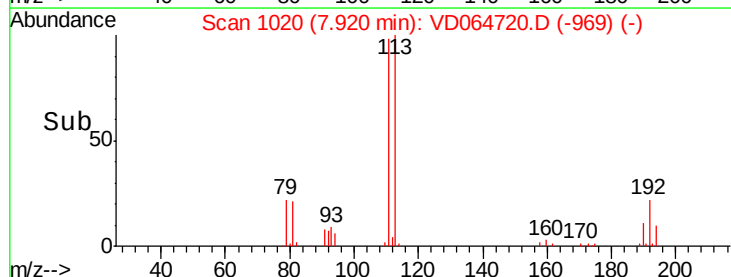


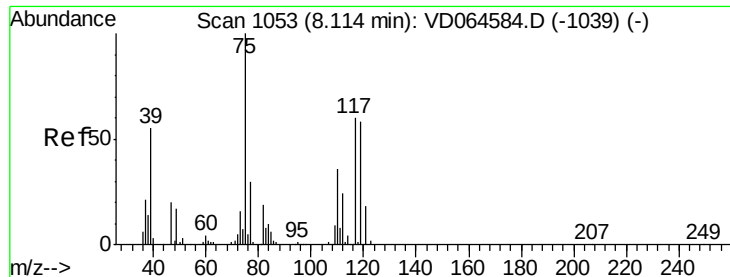
#35
 Dibromofluoromethane
 Concen: 54.603 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064720.D
 Acq: 02 Jan 2020 16:29

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.6	80.6	121.0
192	22.2	17.9	26.9



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.098 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD064720.D

Acq: 02 Jan 2020 16:29

Instrument :

MSVOA_D

ClientSampleId :

174-NC-TOPSOIL-001RE

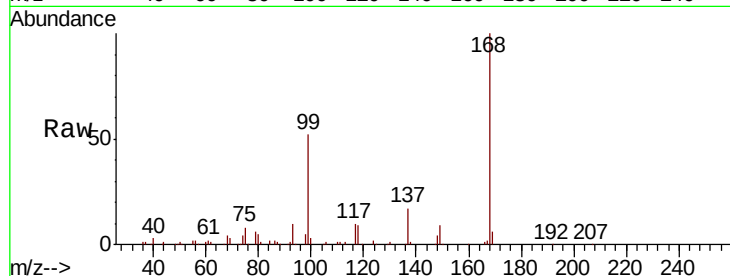
Tot Ion: 75 Resp: 20999

Ion Ratio Lower Upper

75 100

110 9.9 18.1 54.1#

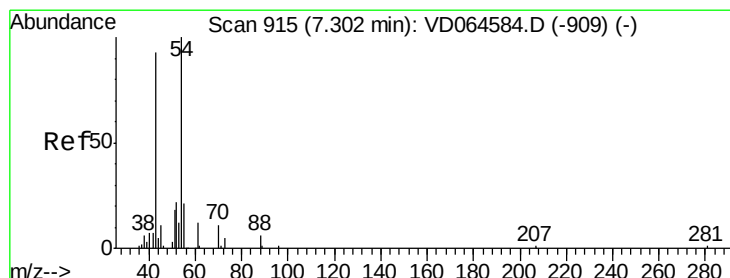
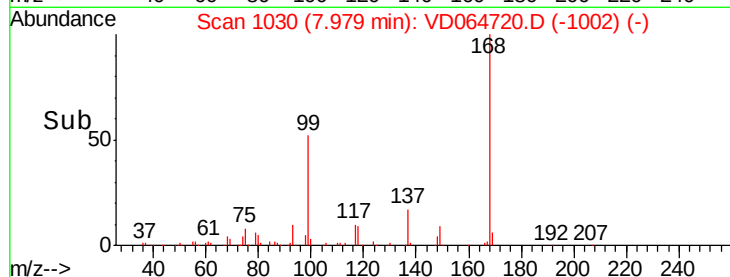
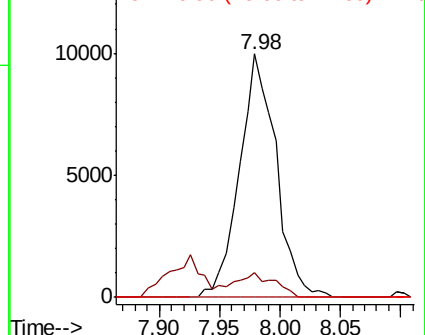
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: 1.562 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.08 min

Lab File: VD064720.D

Acq: 02 Jan 2020 16:29

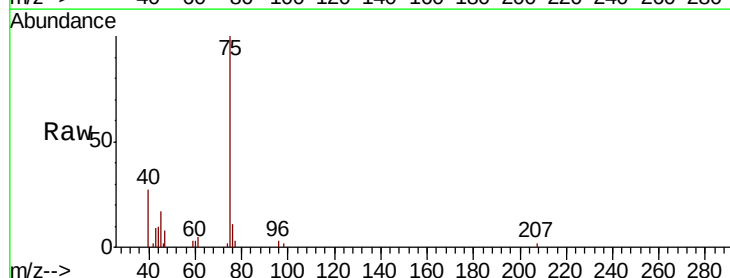
Tgt Ion: 43 Resp: 2527

Ion Ratio Lower Upper

43 100

61 28.1 10.3 15.5#

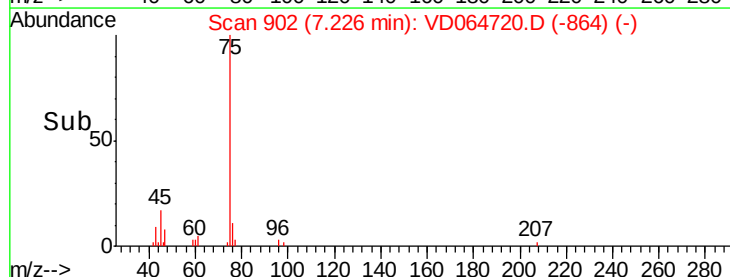
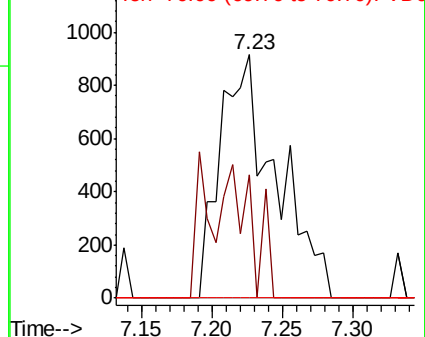
70 0.0 7.6 11.4#

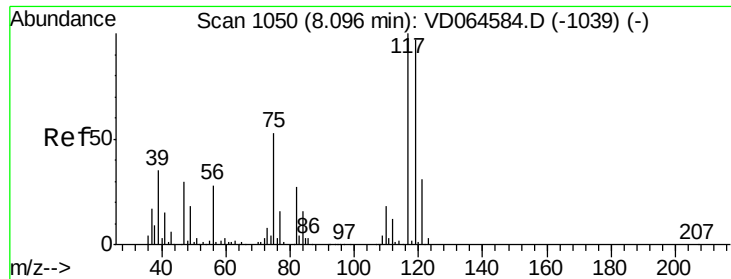


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.656 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064720.D

Acq: 02 Jan 2020 16:29

Instrument :

MSVOA_D

ClientSampleId :

174-NC-TOPSOIL-001RE

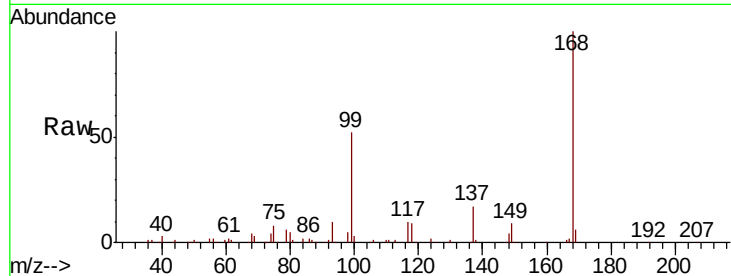
Tot Ion:117 Resp: 24841

Ion Ratio Lower Upper

117 100

119 5.0 77.3 115.9#

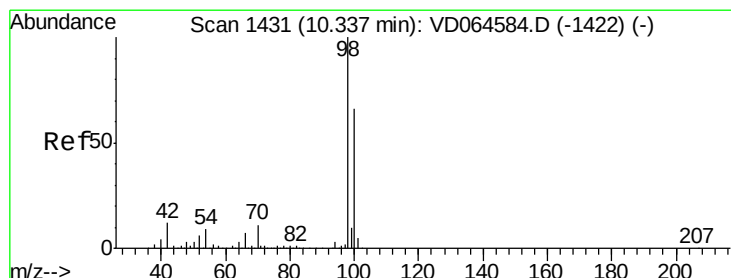
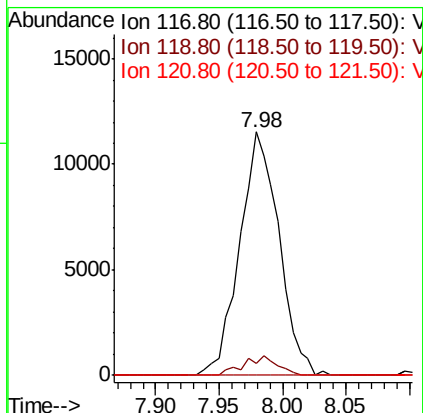
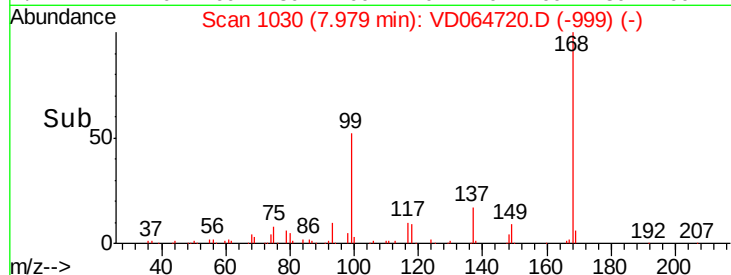
121 0.0 25.0 37.6#



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



#50

Toluene-d8

Concen: 50.146 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064720.D

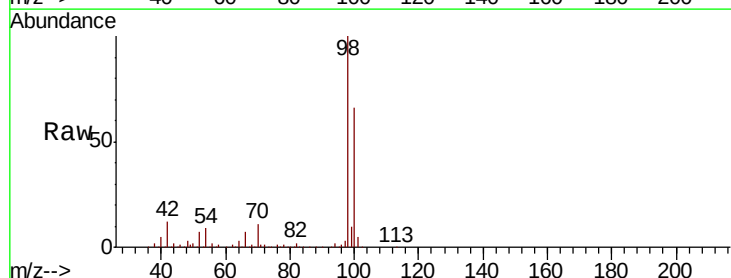
Acq: 02 Jan 2020 16:29

Tgt Ion: 98 Resp: 504228

Ion Ratio Lower Upper

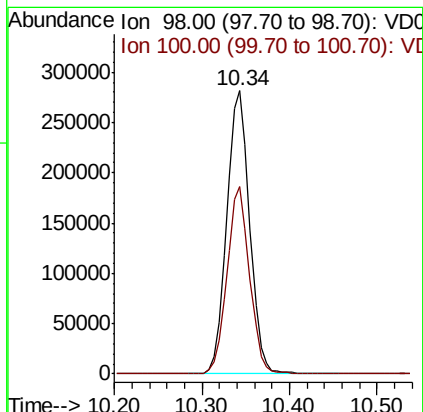
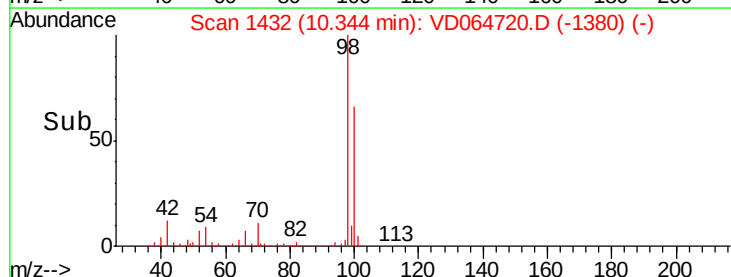
98 100

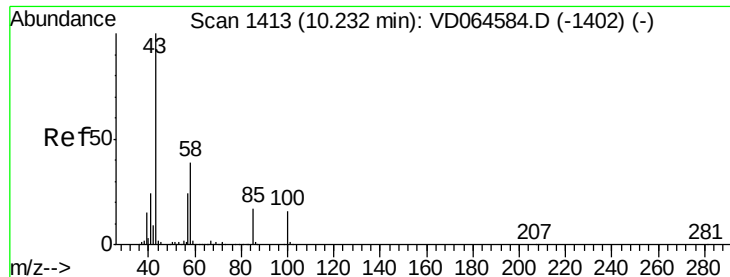
100 64.5 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.251 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD064720.D

Acq: 02 Jan 2020 16:29

Instrument :

MSVOA_D

ClientSampleId :

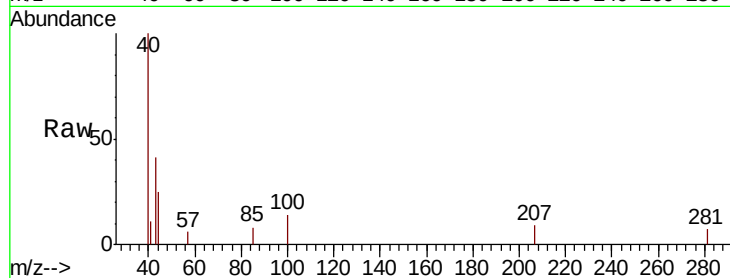
174-NC-TOPSOIL-001RE

Tot Ion: 43 Resp: 1991

Ion Ratio Lower Upper

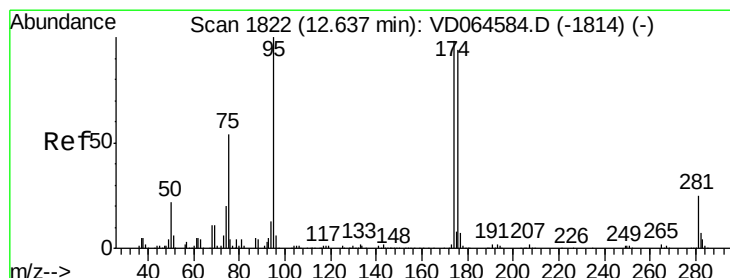
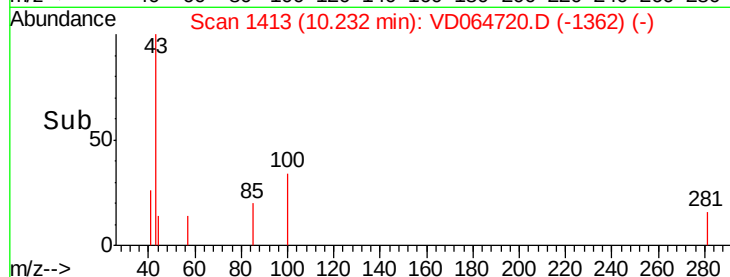
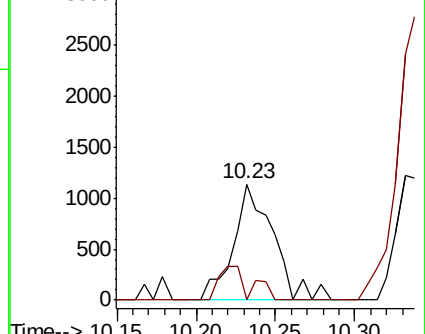
43 100

58 15.8 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 42.352 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064720.D

Acq: 02 Jan 2020 16:29

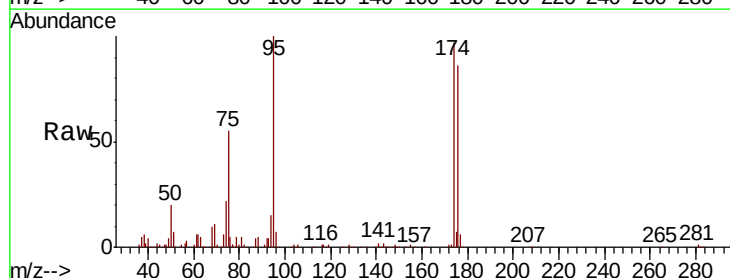
Tgt Ion: 95 Resp: 134663

Ion Ratio Lower Upper

95 100

174 94.9 0.0 193.2

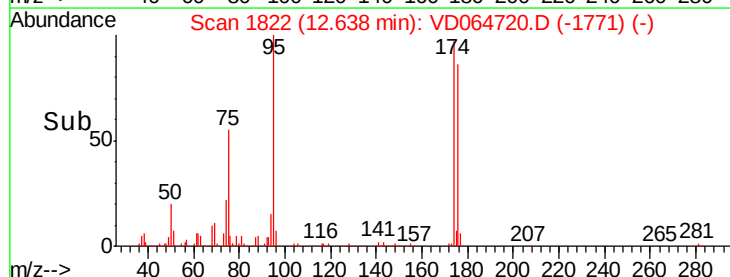
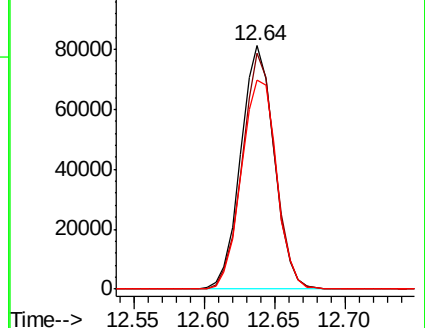
176 90.2 0.0 184.2

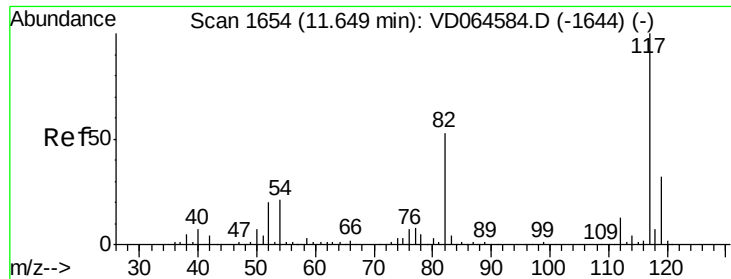


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

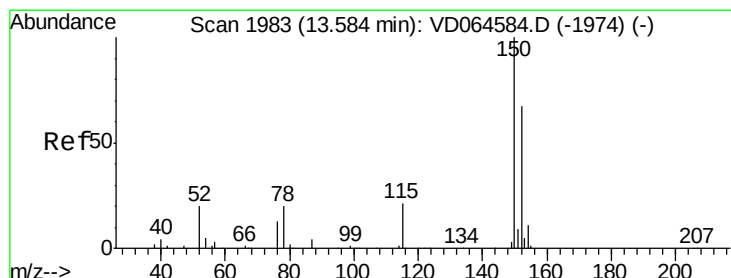
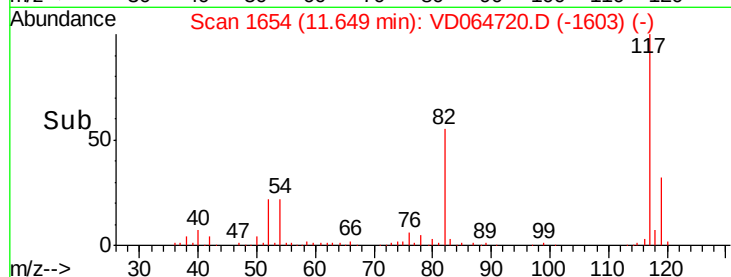
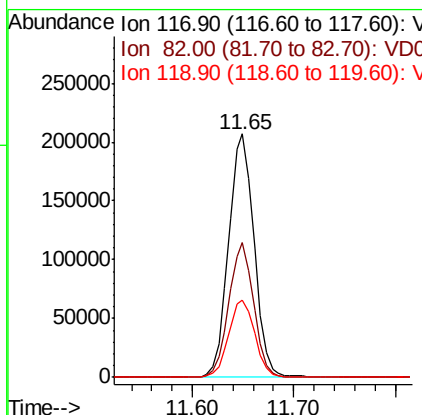
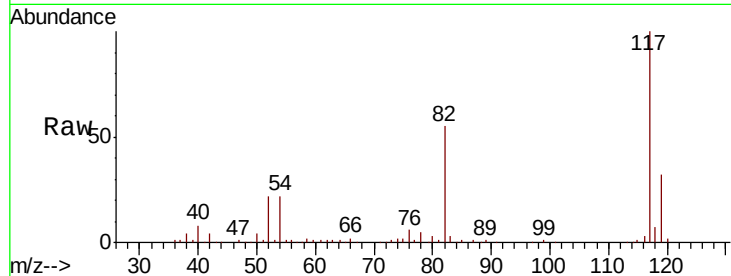




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064720.D
Acq: 02 Jan 2020 16:29

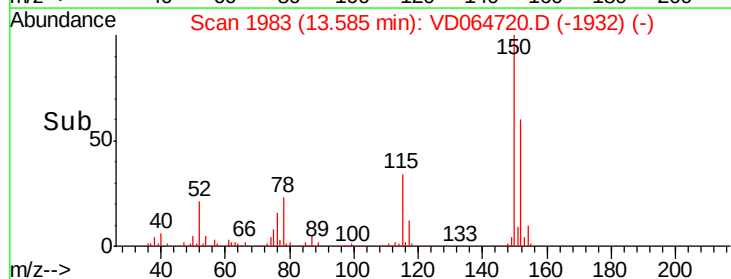
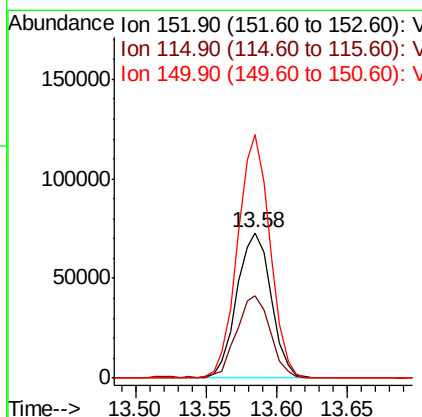
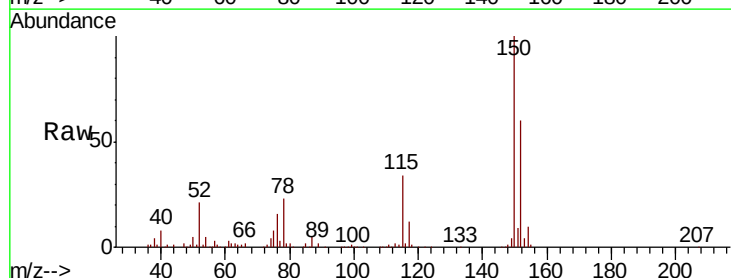
Instrument :
MSVOA_D
ClientSampleId :
174-NC-TOPSOIL-001RE

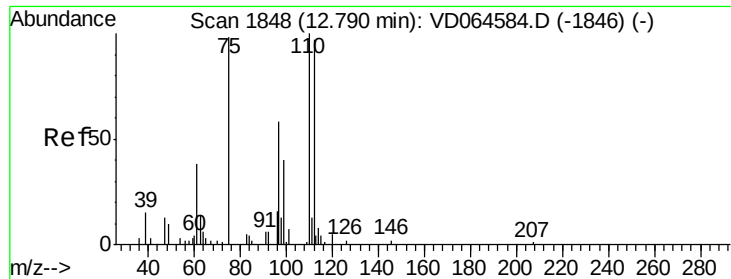
Tot Ion:117 Resp: 361261
Ion Ratio Lower Upper
117 100
82 55.2 42.2 63.4
119 31.8 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064720.D
Acq: 02 Jan 2020 16:29

Tgt Ion:152 Resp: 123839
Ion Ratio Lower Upper
152 100
115 55.9 27.8 83.4
150 157.7 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 74.110 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064720.D

Acq: 02 Jan 2020 16:29

Instrument :

MSVOA_D

ClientSampleId :

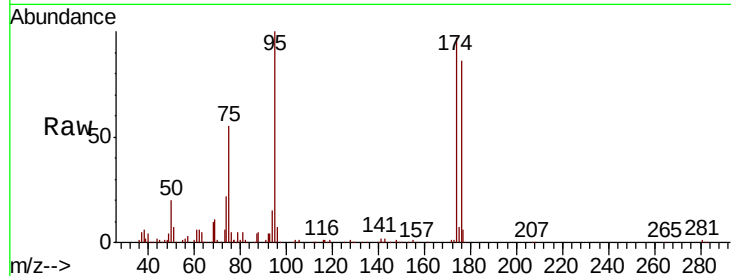
174-NC-TOPSOIL-001RE

Tot Ion: 75 Resp: 72473

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.64

50000

40000

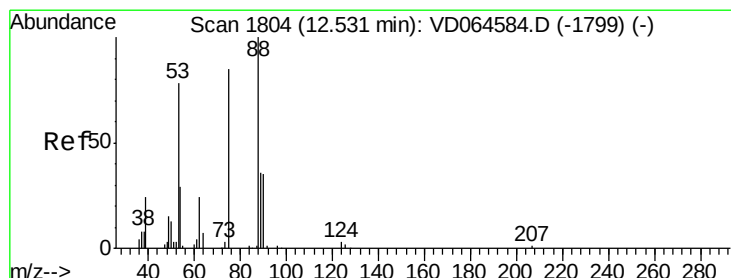
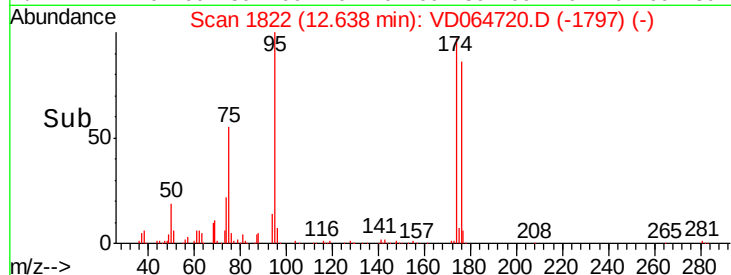
30000

20000

10000

0

Time--> 12.55 12.60 12.65 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 154.999 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064720.D

Acq: 02 Jan 2020 16:29

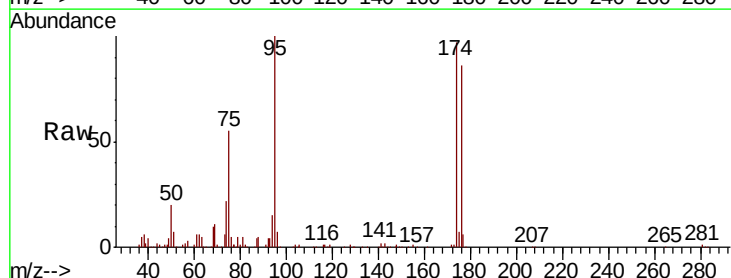
Tgt Ion: 75 Resp: 72473

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

89 0.0 38.3 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

60000

50000

40000

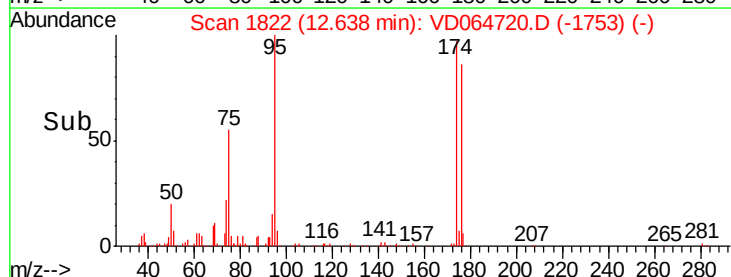
30000

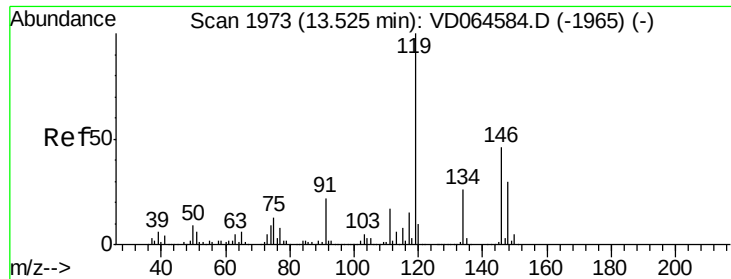
20000

10000

0

Time--> 12.55 12.60 12.65 12.70

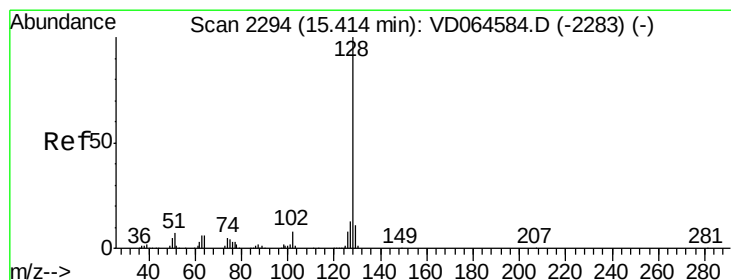
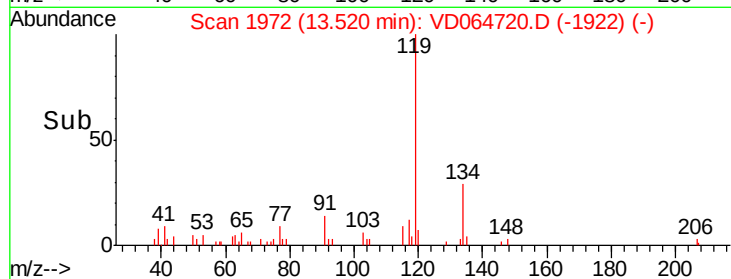
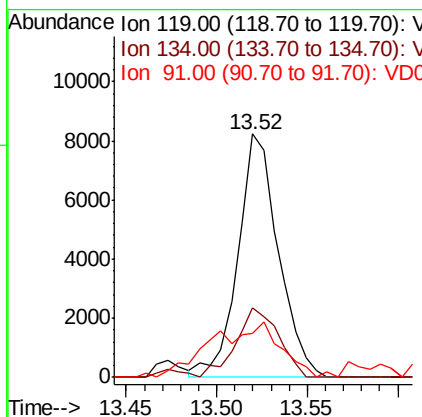
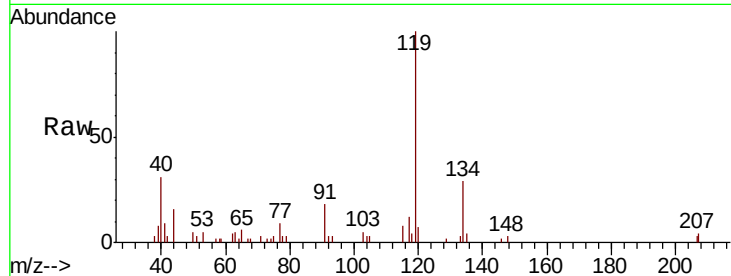




#86
 p-Isopropyltoluene
 Concen: 1.543 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. -0.01 min
 Lab File: VD064720.D
 Acq: 02 Jan 2020 16:29

Instrument :
 MSVOA_D
 ClientSampleId :
 174-NC-TOPSOIL-001RE

Tot Ion	Ratio	Lower	Upper
119	100		
134	29.9	13.4	40.1
91	21.4	11.2	33.6



#95
 Naphthalene
 Concen: 1.583 ug/l
 RT: 15.41 min Scan# 2294
 Delta R.T. 0.00 min
 Lab File: VD064720.D
 Acq: 02 Jan 2020 16:29

Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.8	10.3	15.5#
129	4.4	8.5	12.7#

