

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD010220\
 Data File : VD064712.D
 Acq On : 02 Jan 2020 12:39
 Operator : VA/SY
 Sample : K6469-01
 Misc : 5.07G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

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

Quant Time: Jan 03 00:23:51 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	7.99	168	494465	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	740229	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	502373	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	118538	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	218656	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
35) Dibromofluoromethane	7.92	113	229371	50.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.02%	
50) Toluene-d8	10.34	98	809281	46.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.06%	
62) 4-Bromofluorobenzene	12.64	95	156211	28.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	56.80%	

Target Compounds

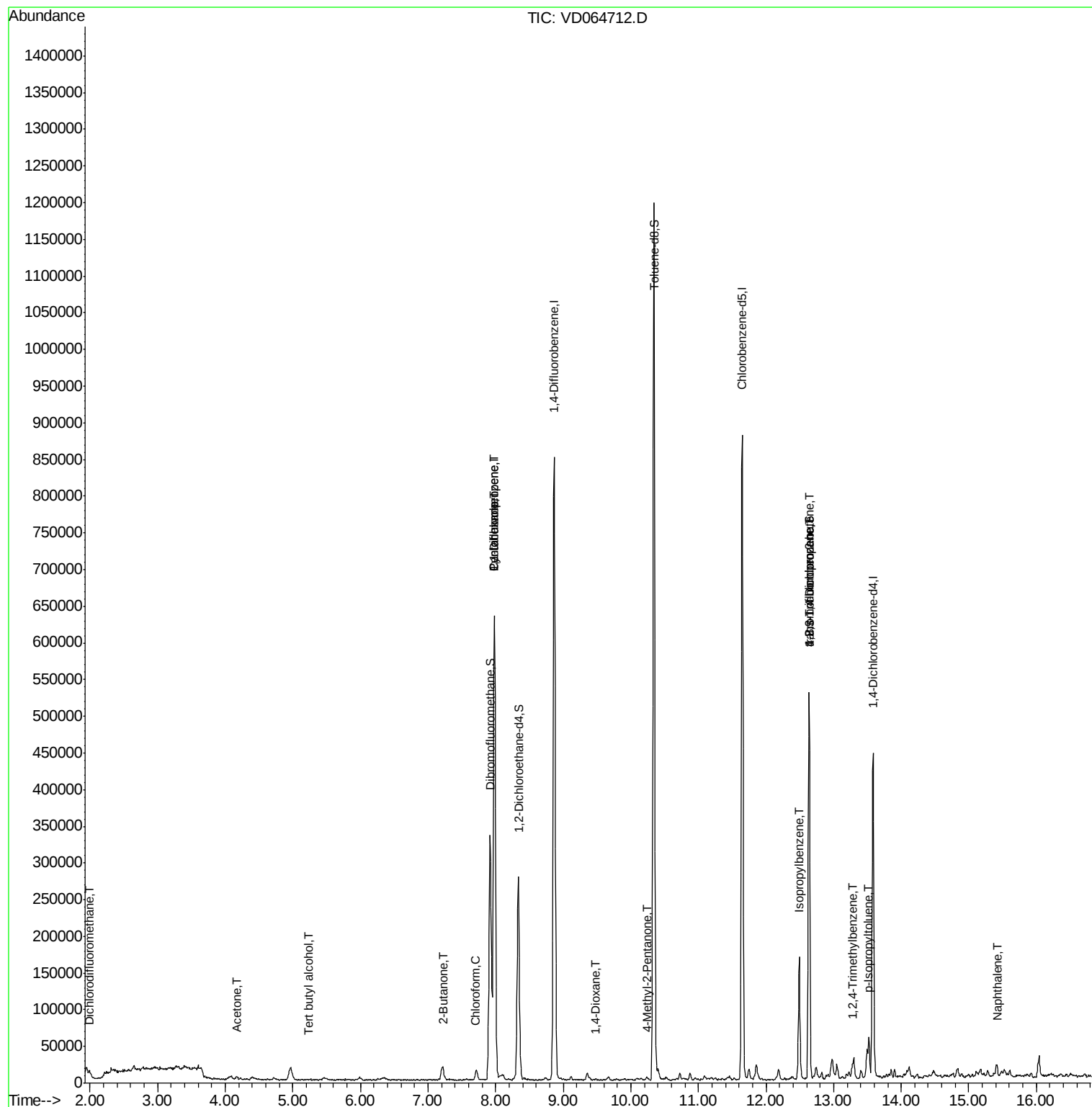
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	5240	1.364	ug/l	87
11) Tert butyl alcohol	5.24	59	456	1.825	ug/l	95
16) Acetone	4.17	43	7888	11.757	ug/l	99
20) Methylene Chloride	4.97	84	13201	Below Cal	#	75
25) 2-Butanone	7.23	43	2722	2.271	ug/l #	85
30) Chloroform	7.71	83	12038	1.413	ug/l	88
31) Cyclohexane	7.98	56	12315	1.515	ug/l #	13
36) 1,1-Dichloropropene	7.98	75	36162	5.076	ug/l #	51
49) 1,4-Dioxane	9.47	88	81	2.713	ug/l #	1
51) 4-Methyl-2-Pentanone	10.24	43	2759	1.002	ug/l #	86
73) Isopropylbenzene	12.48	105	13172	1.555	ug/l	84
76) 1,2,3-Trichloropropane	12.64	75	83270	88.959	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	83270	186.055	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.28	105	8394	1.211	ug/l	88
86) p-Isopropyltoluene	13.53	119	26965	3.405	ug/l #	84
95) Naphthalene	15.41	128	13071	3.316	ug/l	98

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

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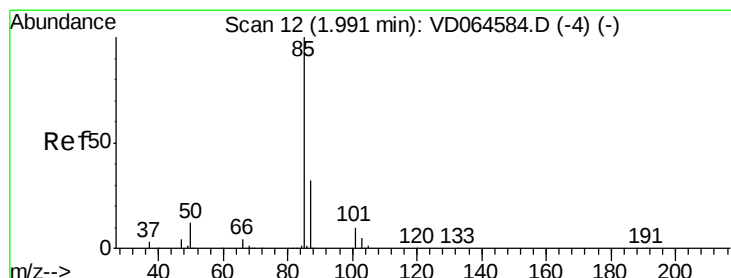
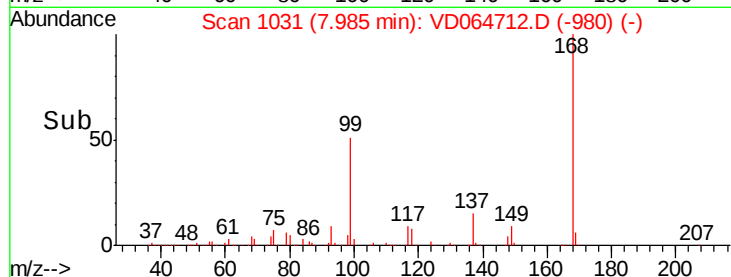
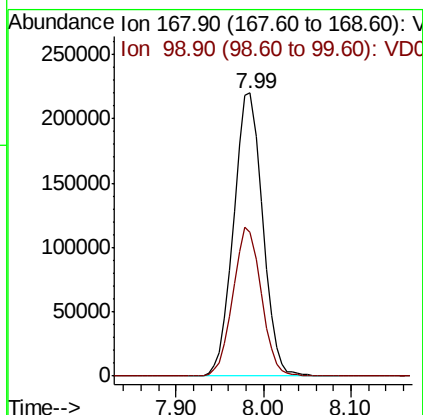
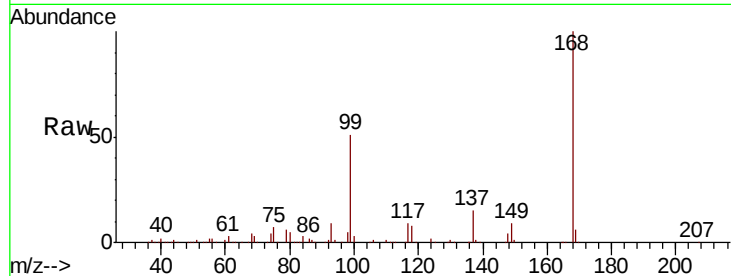




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064712.D
Acq: 02 Jan 2020 12:39

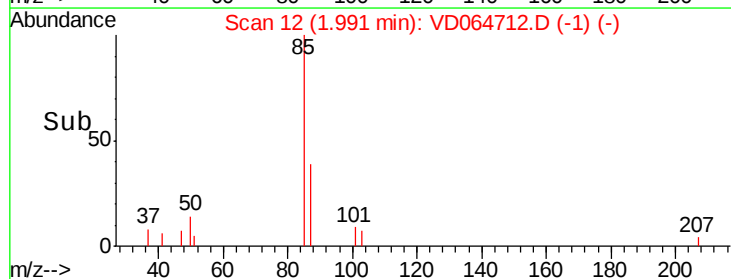
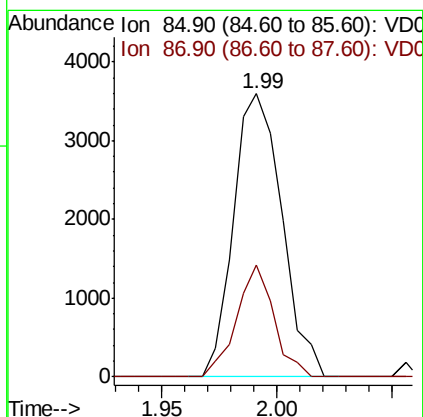
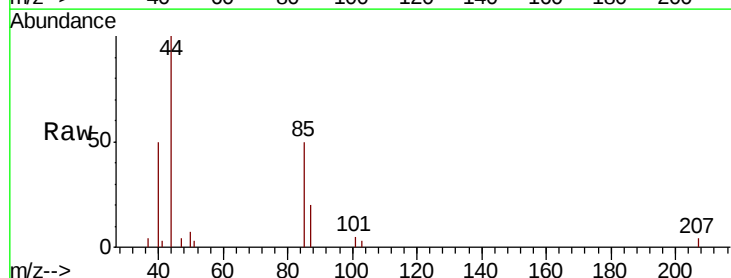
Instrument :
MSVOA_D
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174-NC-TOPSOIL-001

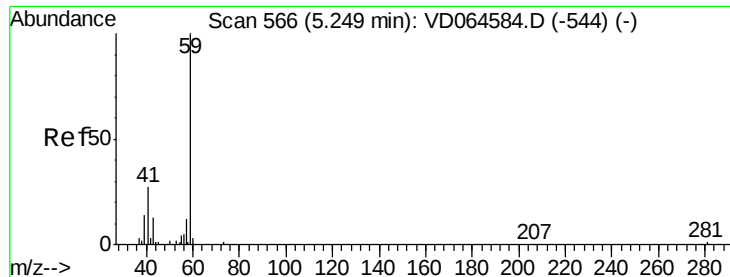
Tot Ion:168 Resp: 494465
Ion Ratio Lower Upper
168 100
99 50.8 41.8 62.6



#2
Dichlorodifluoromethane
Concen: 1.364 ug/l
RT: 1.99 min Scan# 12
Delta R.T. 0.00 min
Lab File: VD064712.D
Acq: 02 Jan 2020 12:39

Tgt Ion: 85 Resp: 5240
Ion Ratio Lower Upper
85 100
87 39.5 16.1 48.2

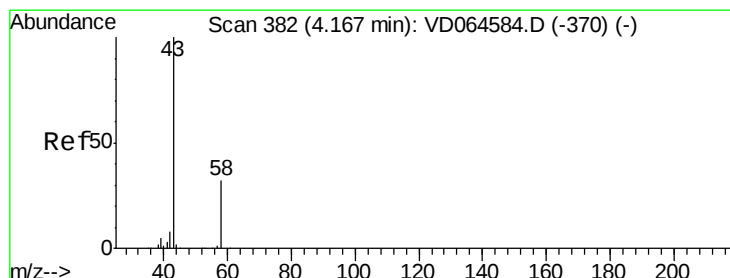
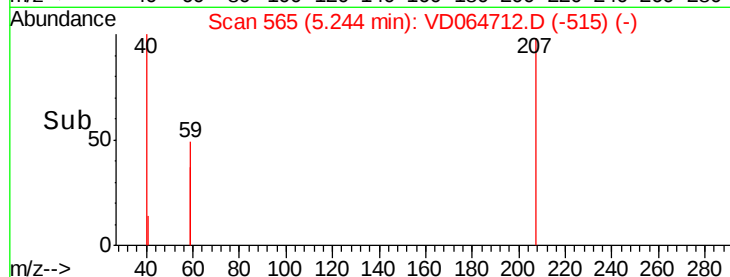
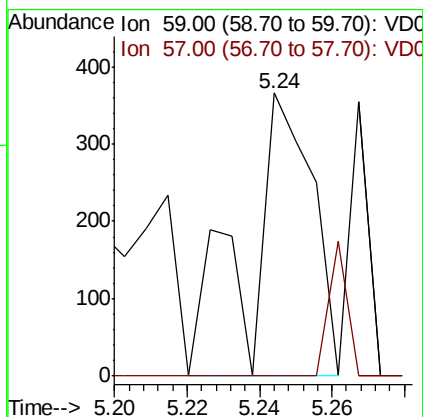
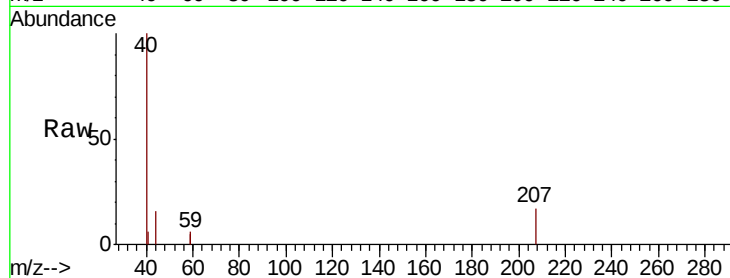




#11
Tert butyl alcohol
Concen: 1.825 ug/l
RT: 5.24 min Scan# 565
Delta R.T. -0.01 min
Lab File: VD064712.D
Acq: 02 Jan 2020 12:39

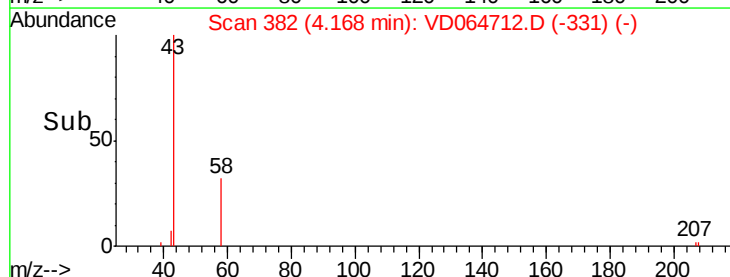
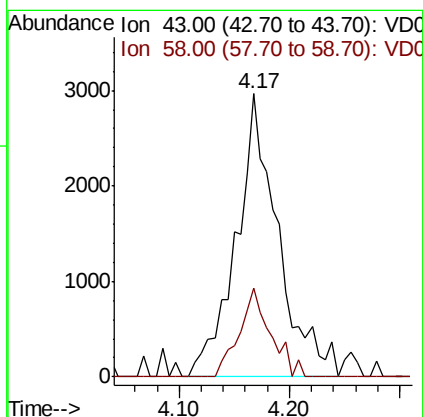
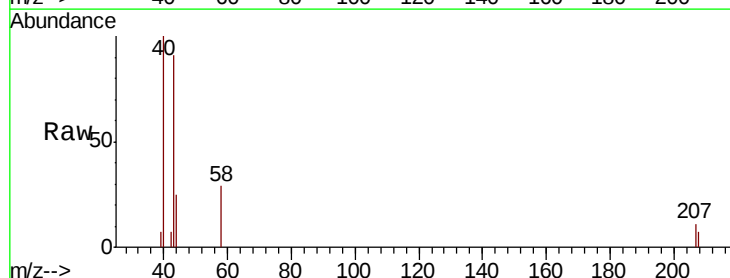
Instrument :
MSVOA_D
ClientSampleId :
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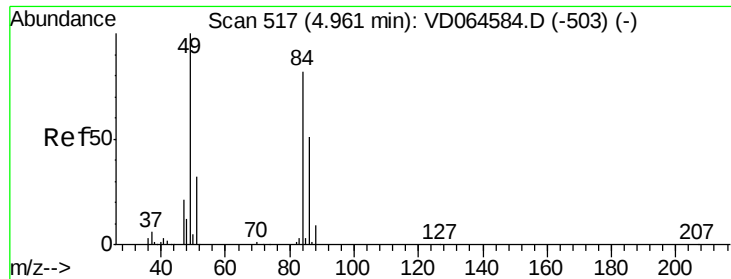
Tot Ion: 59 Resp: 456
Ion Ratio Lower Upper
59 100
57 13.4 9.3 13.9



#16
Acetone
Concen: 11.757 ug/l
RT: 4.17 min Scan# 382
Delta R.T. 0.00 min
Lab File: VD064712.D
Acq: 02 Jan 2020 12:39

Tgt Ion: 43 Resp: 7888
Ion Ratio Lower Upper
43 100
58 31.5 25.8 38.6

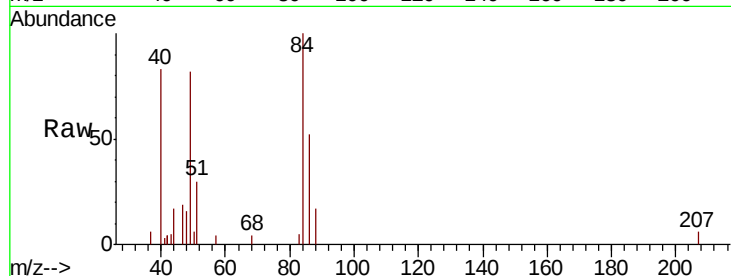




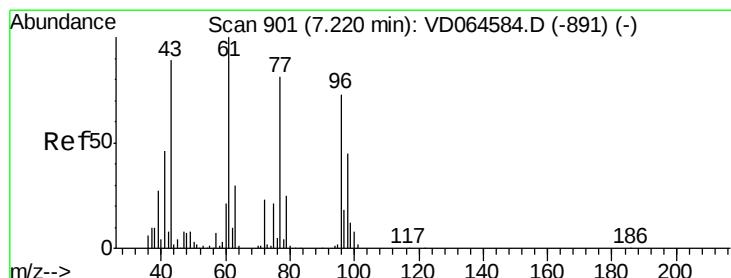
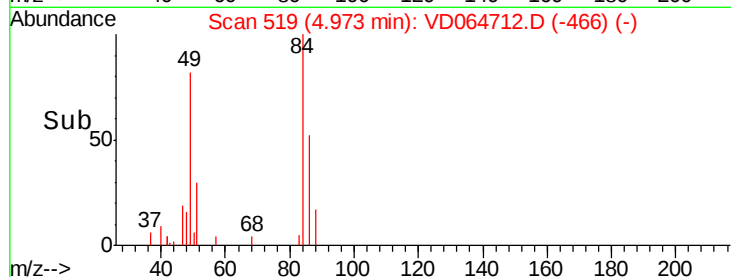
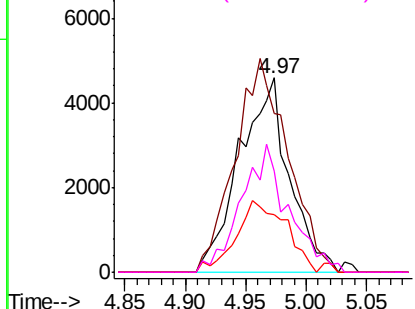
#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD064712.D
Acq: 02 Jan 2020 12:39

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

Tot Ion: 84 Resp: 13201
Ion Ratio Lower Upper
84 100
49 82.1 97.2 145.8#
51 29.7 31.4 47.0#
86 52.0 49.3 73.9

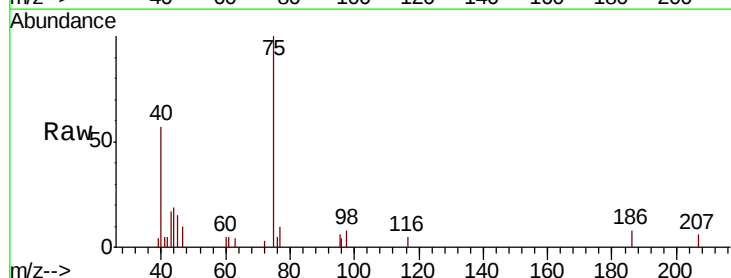


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

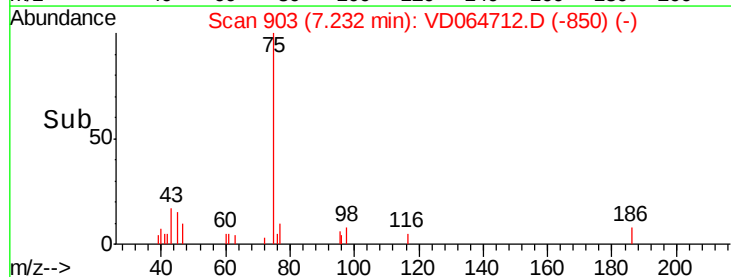
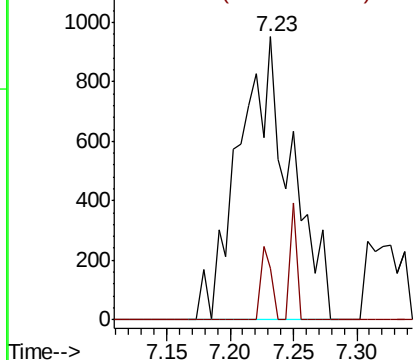


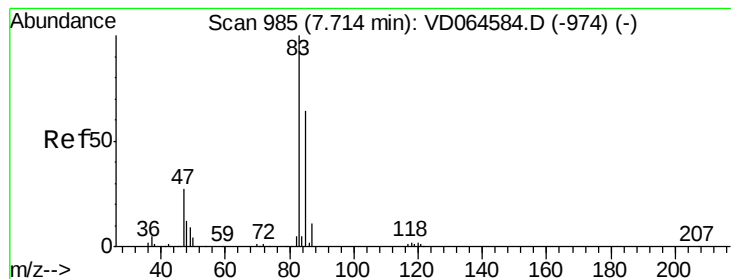
#25
2-Butanone
Concen: 2.271 ug/l
RT: 7.23 min Scan# 903
Delta R.T. 0.01 min
Lab File: VD064712.D
Acq: 02 Jan 2020 12:39

Tgt Ion: 43 Resp: 2722
Ion Ratio Lower Upper
43 100
72 18.2 20.7 31.1#



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





#30

Chloroform

Concen: 1.413 ug/l

RT: 7.71 min Scan# 984

Delta R.T. -0.01 min

Lab File: VD064712.D

Acq: 02 Jan 2020 12:39

Instrument :

MSVOA_D

ClientSampleId :

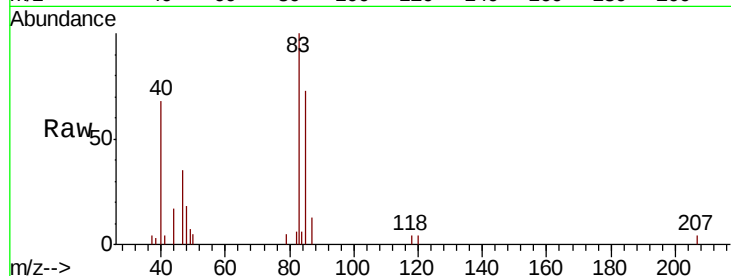
174-NC-TOPSOIL-001

Tot Ion: 83 Resp: 12038

Ion Ratio Lower Upper

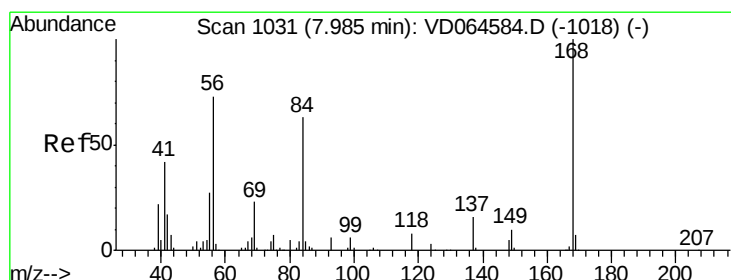
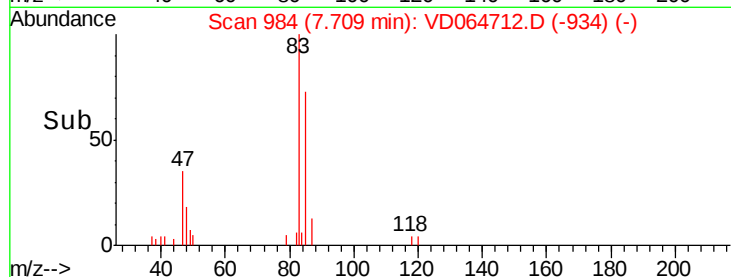
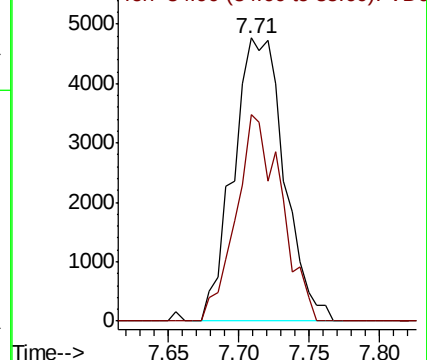
83 100

85 73.0 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: 1.515 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064712.D

Acq: 02 Jan 2020 12:39

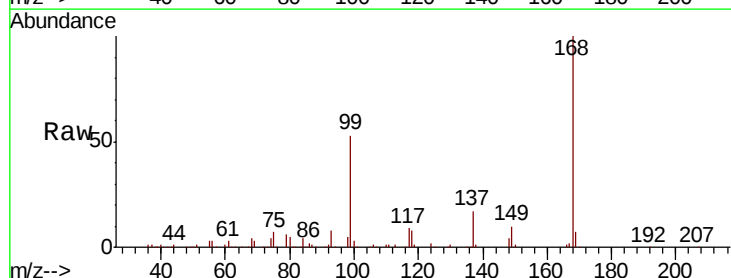
Tgt Ion: 56 Resp: 12315

Ion Ratio Lower Upper

56 100

69 126.2 24.7 37.1#

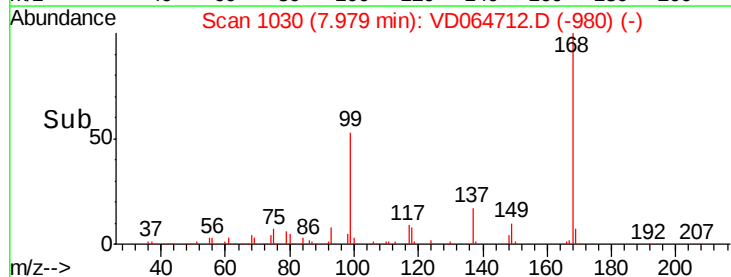
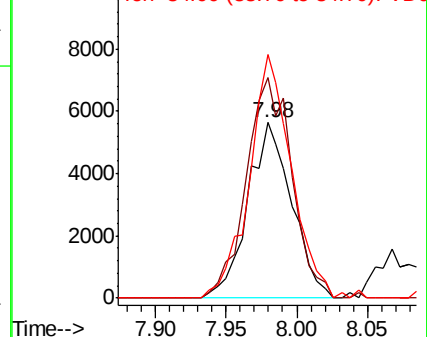
84 138.9 69.4 104.2#

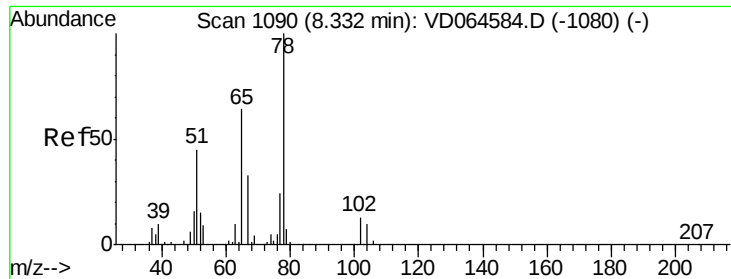


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

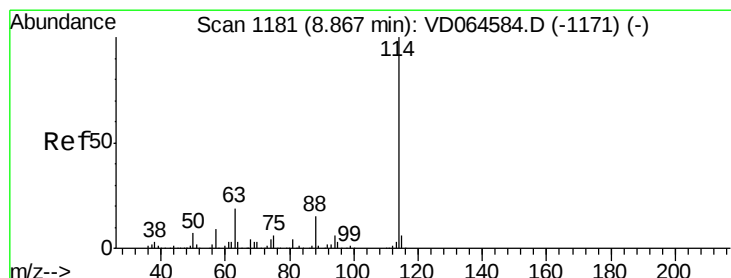
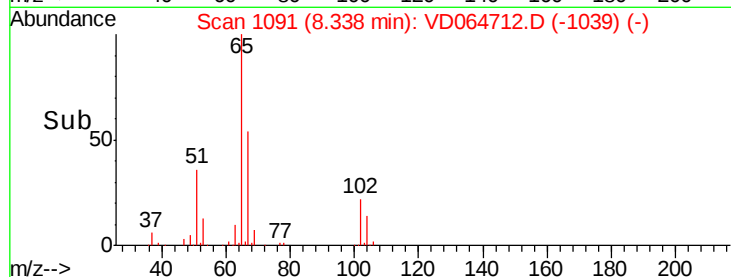
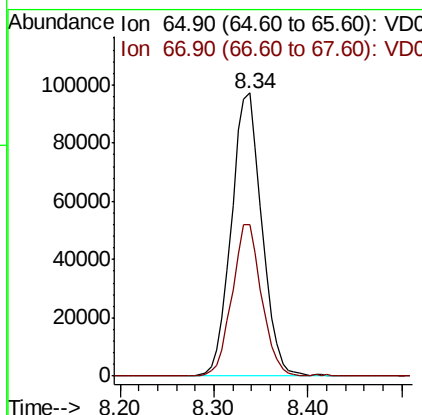
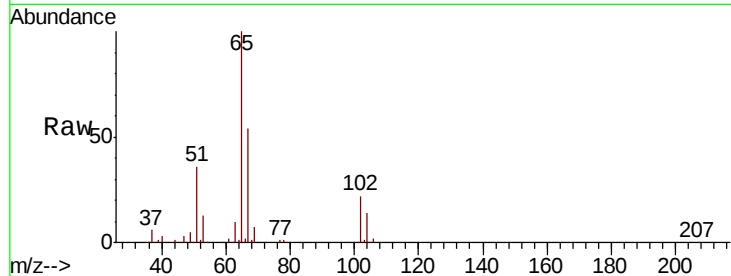




#33
 1,2-Dichloroethane-d4
 Concen: 50.149 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VD064712.D
 Acq: 02 Jan 2020 12:39

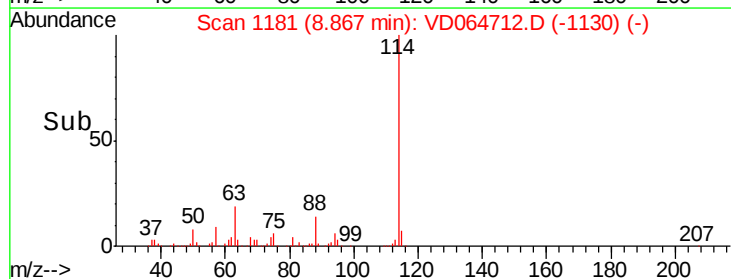
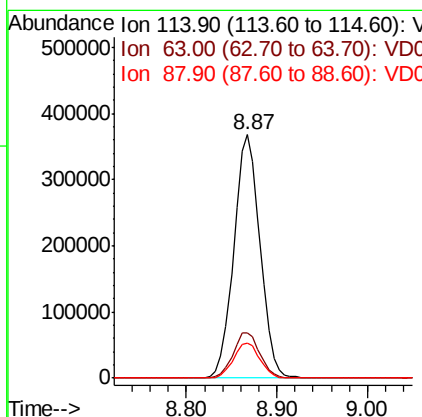
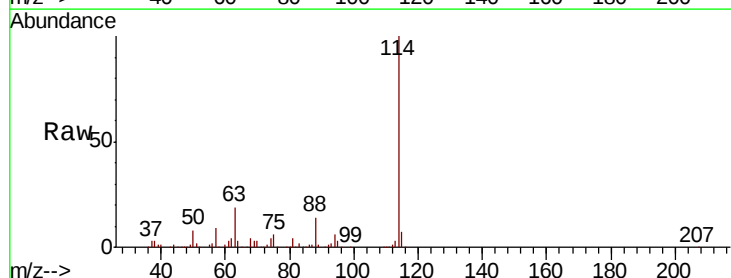
Instrument :
 MSVOA_D
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 174-NC-TOPSOIL-001

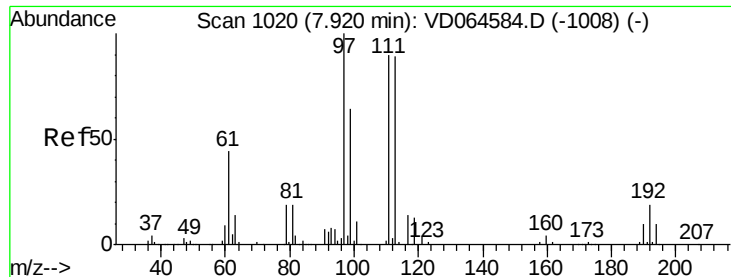
Tot Ion: 65 Resp: 218656
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064712.D
 Acq: 02 Jan 2020 12:39

Tgt Ion: 114 Resp: 740229
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 38.0
 88 14.4 0.0 29.2

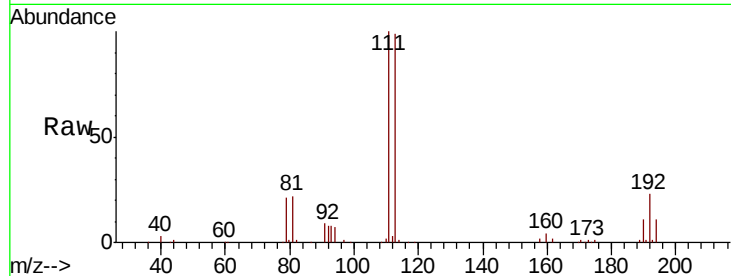




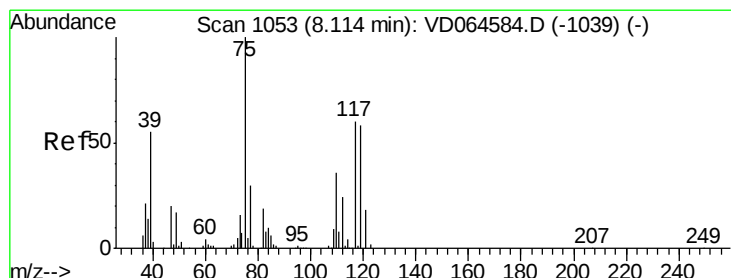
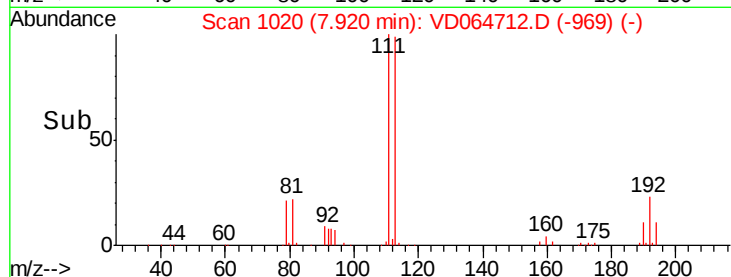
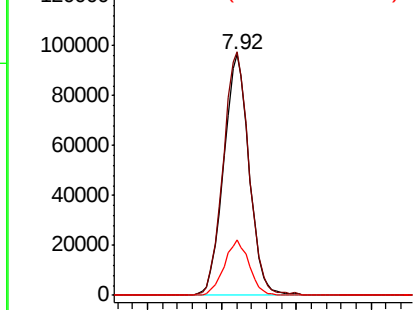
#35
Dibromofluoromethane
Concen: 50.506 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD064712.D
Acq: 02 Jan 2020 12:39

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

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	80.6	121.0
192	22.5	17.9	26.9

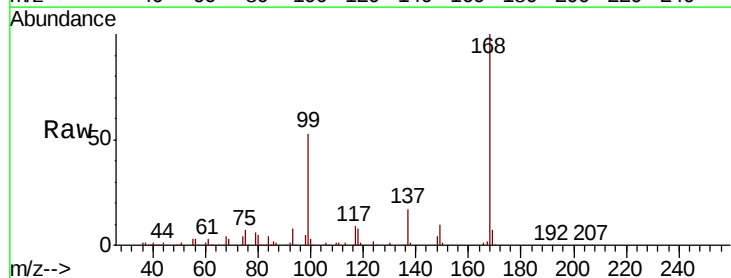


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

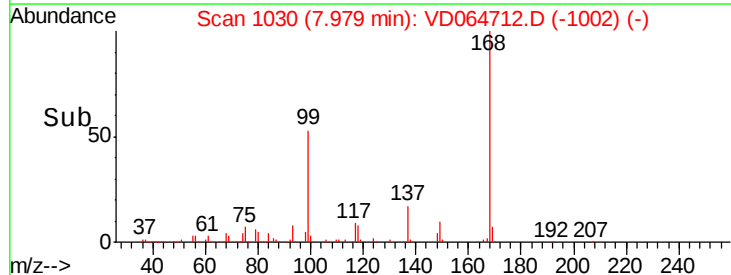
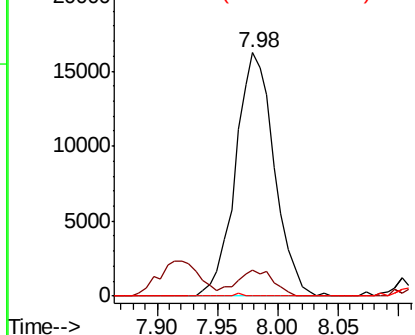


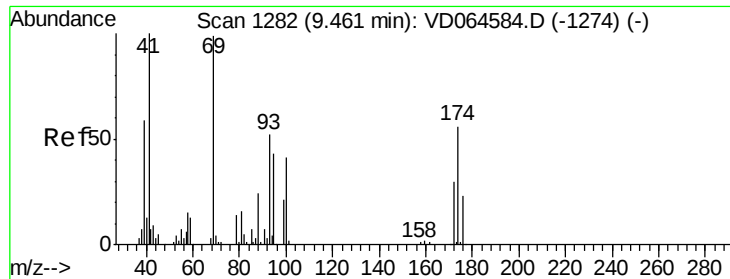
#36
1,1-Dichloropropene
Concen: 5.076 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.13 min
Lab File: VD064712.D
Acq: 02 Jan 2020 12:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.2	18.1	54.1#
77	0.2	24.2	36.4#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V

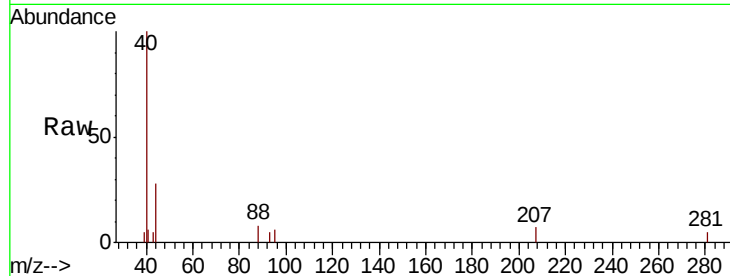




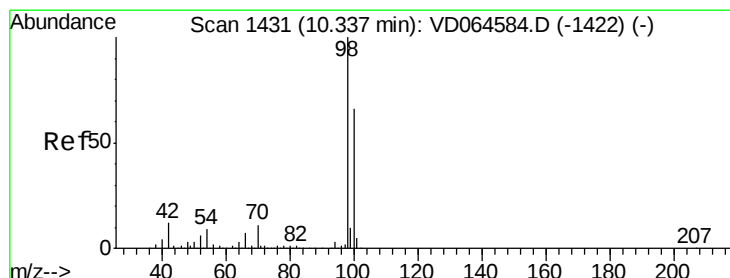
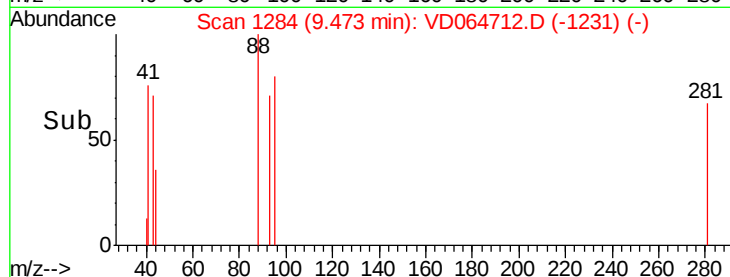
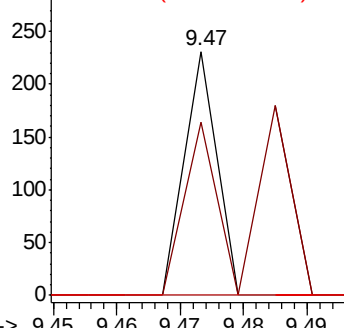
#49
 1,4-Dioxane
 Concen: 2.713 ug/l
 RT: 9.47 min Scan# 1284
 Delta R.T. 0.01 min
 Lab File: VD064712.D
 Acq: 02 Jan 2020 12:39

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

Tot Ion: 88 Resp: 81
 Ion Ratio Lower Upper
 88 100
 43 149.4 27.7 41.5#
 58 0.0 53.8 80.6#

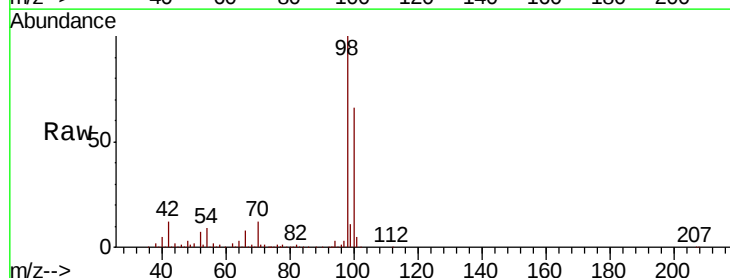


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.00 (42.70 to 43.70): VDC
 Ion 58.00 (57.70 to 58.70): VDC

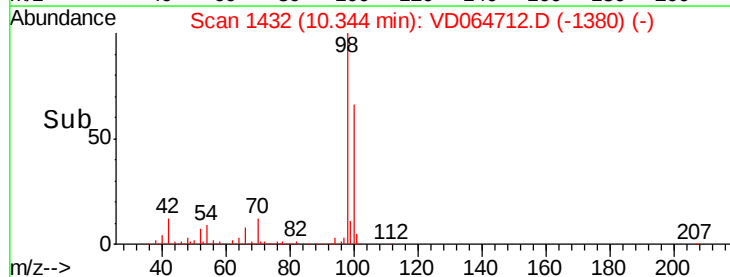
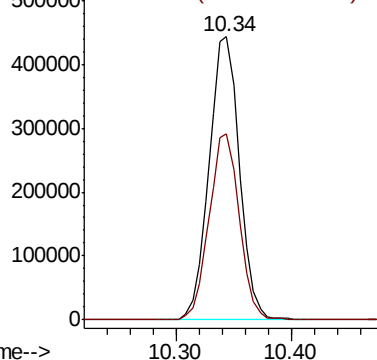


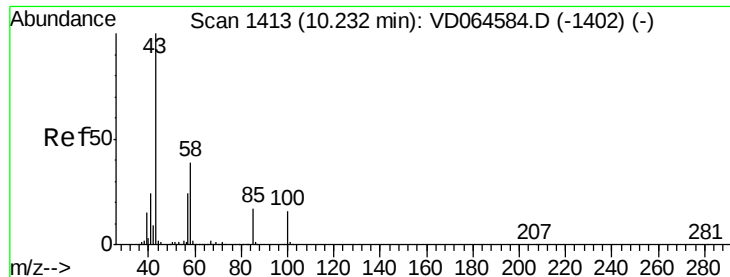
#50
 Toluene-d8
 Concen: 46.529 ug/l
 RT: 10.34 min Scan# 1432
 Delta R.T. 0.01 min
 Lab File: VD064712.D
 Acq: 02 Jan 2020 12:39

Tgt Ion: 98 Resp: 809281
 Ion Ratio Lower Upper
 98 100
 100 65.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VDC
 Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 1.002 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. 0.01 min

Lab File: VD064712.D

Acq: 02 Jan 2020 12:39

Instrument :

MSVOA_D

ClientSampleId :

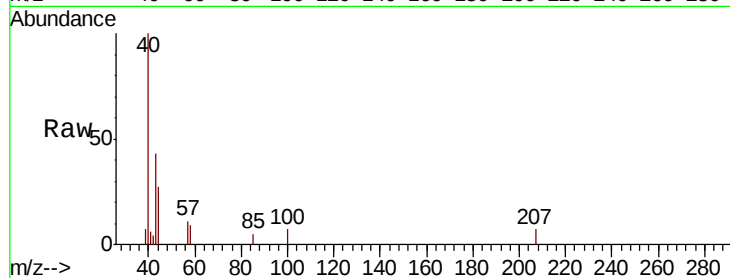
174-NC-TOPSOIL-001

Tot Ion: 43 Resp: 2759

Ion Ratio Lower Upper

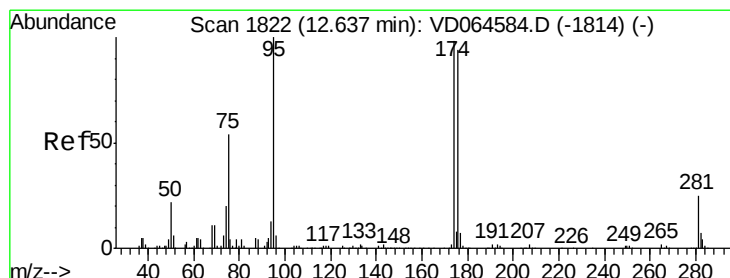
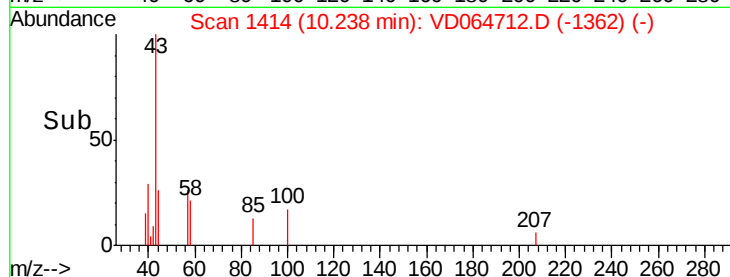
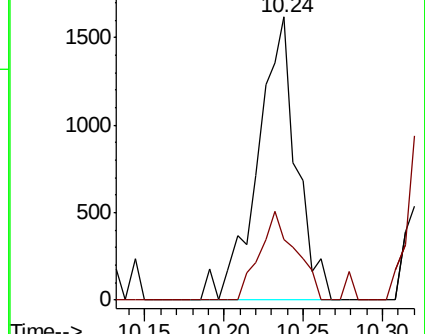
43 100

58 29.2 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: 28.402 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064712.D

Acq: 02 Jan 2020 12:39

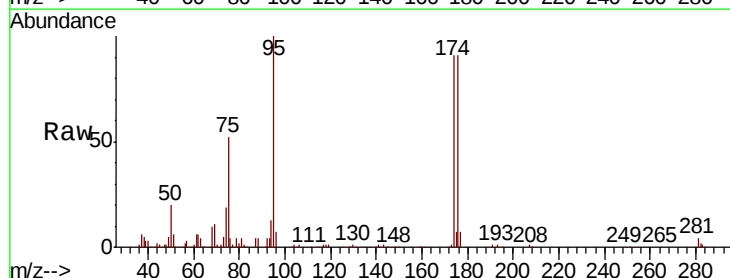
Tgt Ion: 95 Resp: 156211

Ion Ratio Lower Upper

95 100

174 95.8 0.0 193.2

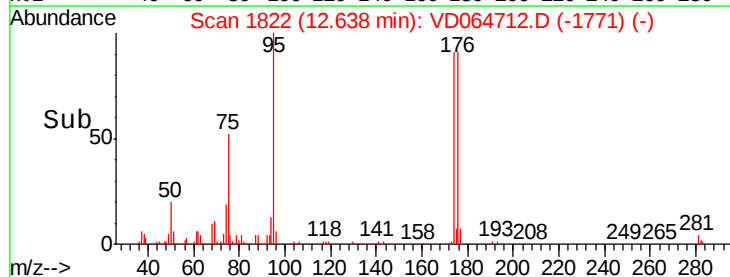
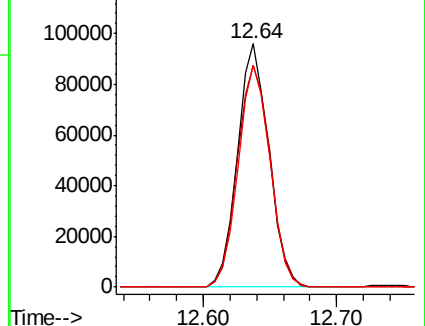
176 92.3 0.0 184.2

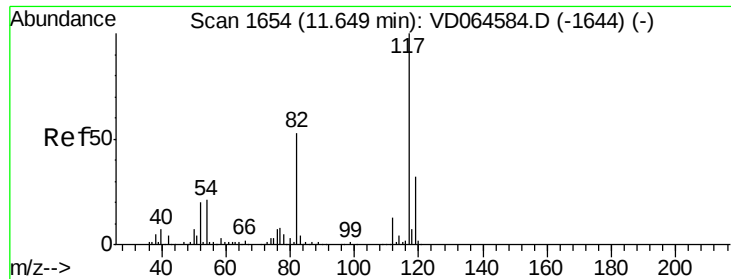


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

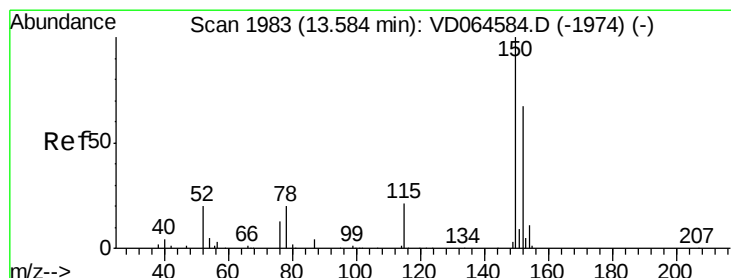
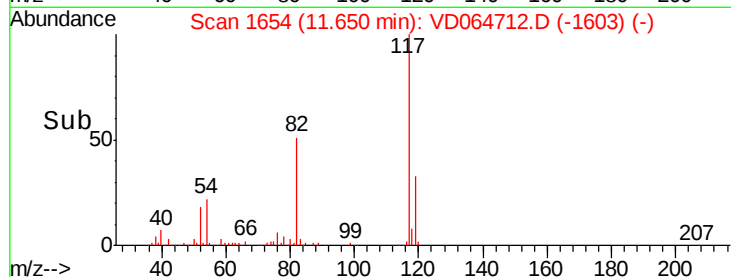
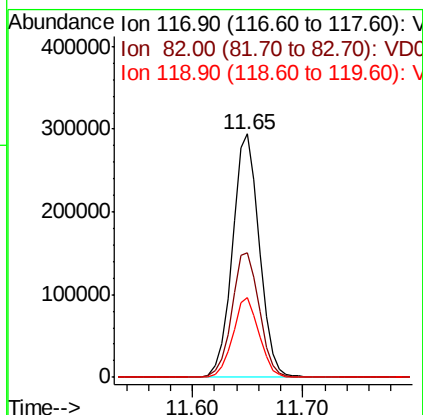
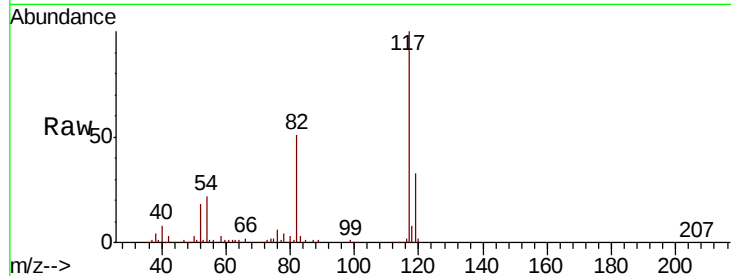




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064712.D
Acq: 02 Jan 2020 12:39

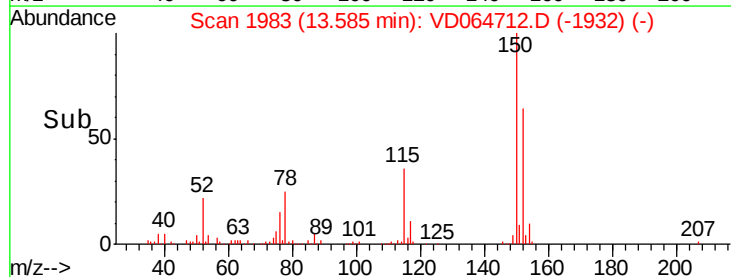
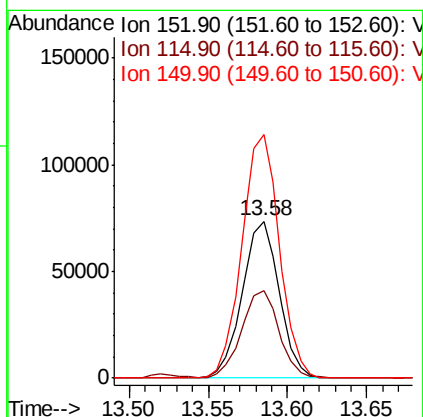
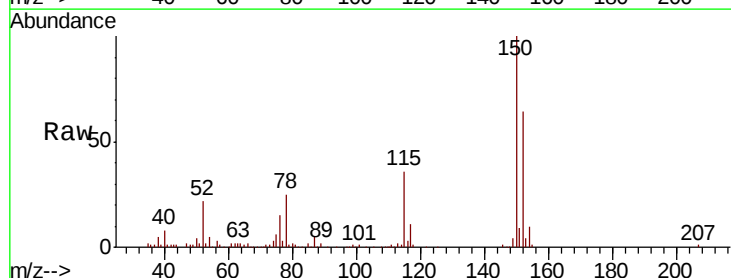
Instrument :
MSVOA_D
ClientSampleId :
174-NC-TOPSOIL-001

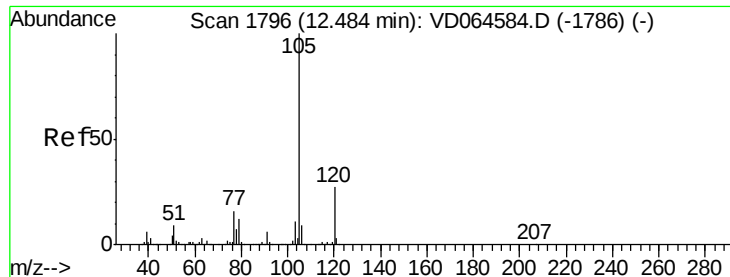
Tot Ion:117 Resp: 502373
Ion Ratio Lower Upper
117 100
82 51.4 42.2 63.4
119 32.6 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064712.D
Acq: 02 Jan 2020 12:39

Tgt Ion:152 Resp: 118538
Ion Ratio Lower Upper
152 100
115 56.3 27.8 83.4
150 158.4 0.0 351.4





#73

Isopropylbenzene

Concen: 1.555 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064712.D

Acq: 02 Jan 2020 12:39

Instrument :

MSVOA_D

ClientSampleId :

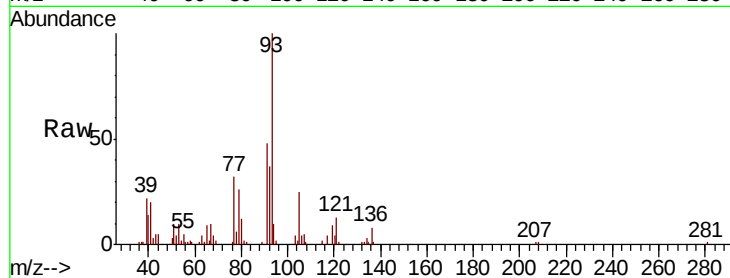
174-NC-TOPSOIL-001

Tot Ion: 105 Resp: 13172

Ion Ratio Lower Upper

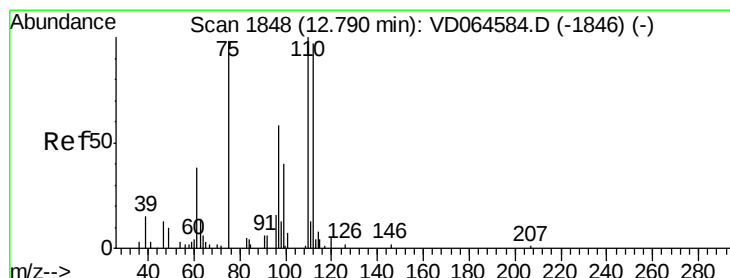
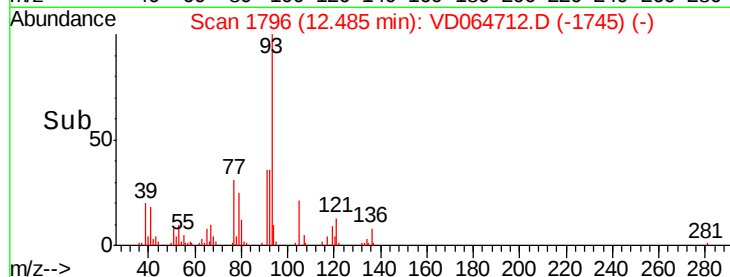
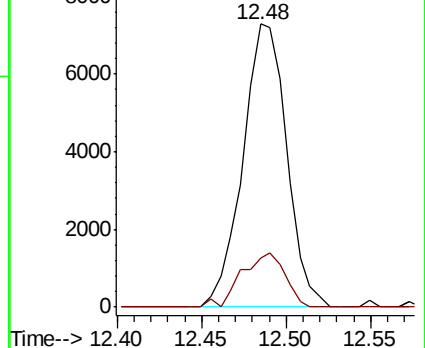
105 100

120 18.8 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 88.959 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064712.D

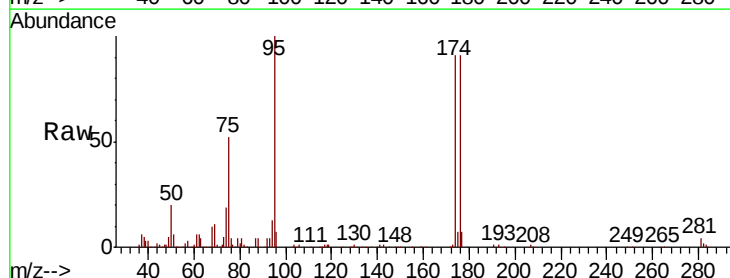
Acq: 02 Jan 2020 12:39

Tgt Ion: 75 Resp: 83270

Ion Ratio Lower Upper

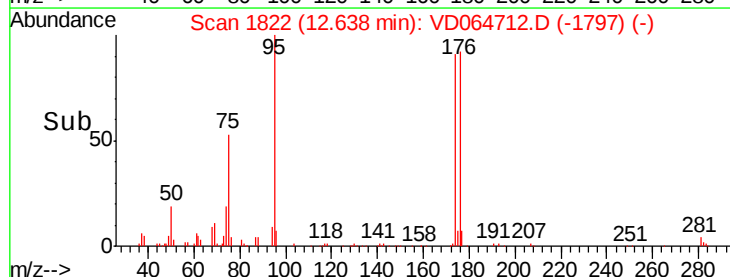
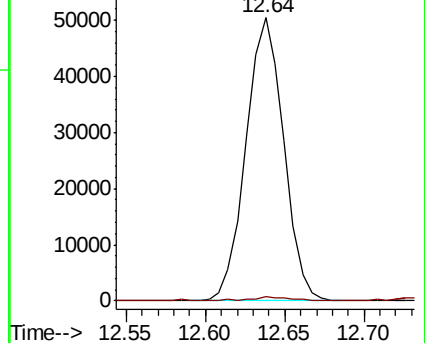
75 100

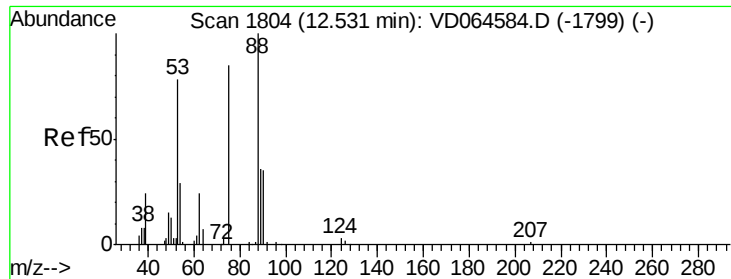
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 186.055 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064712.D

Acq: 02 Jan 2020 12:39

Instrument :

MSVOA_D

ClientSampleId :

174-NC-TOPSOIL-001

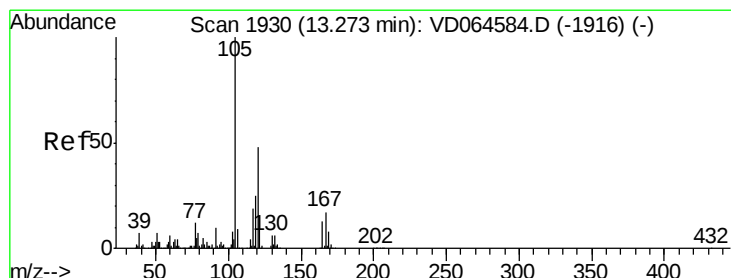
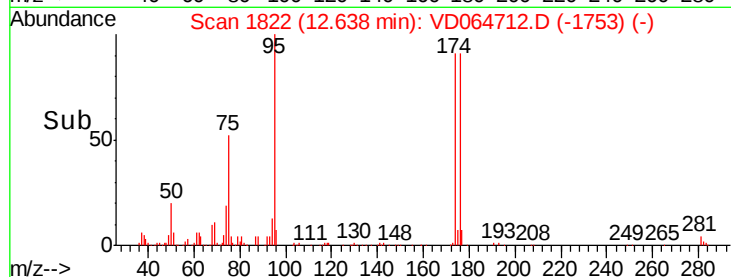
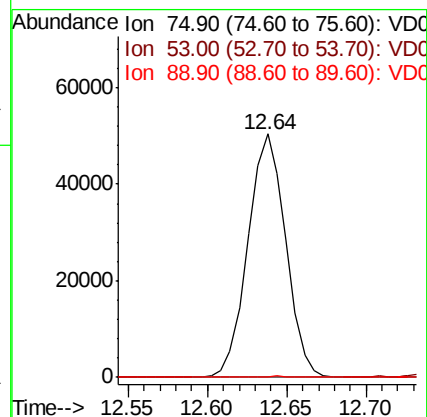
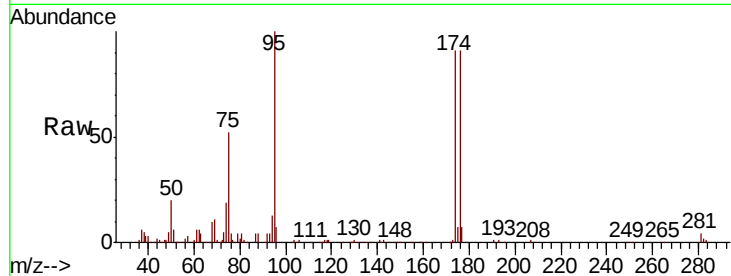
Tot Ion: 75 Resp: 83270

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

89 0.1 38.3 57.5#



#84

1,2,4-Trimethylbenzene

Concen: 1.211 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.01 min

Lab File: VD064712.D

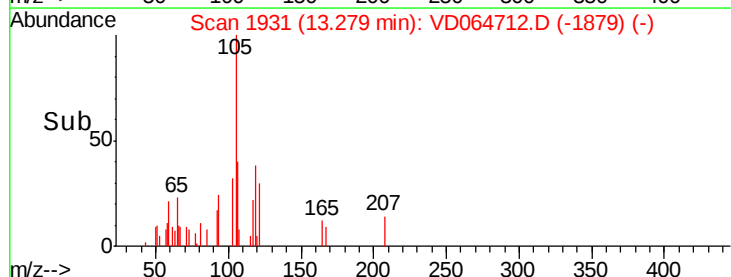
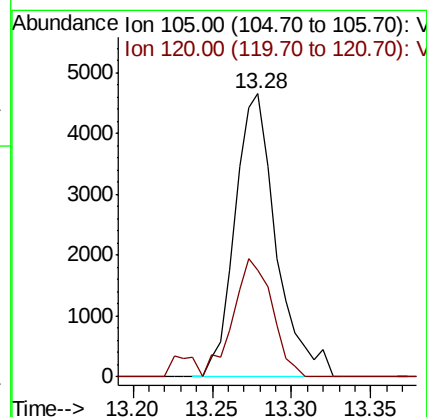
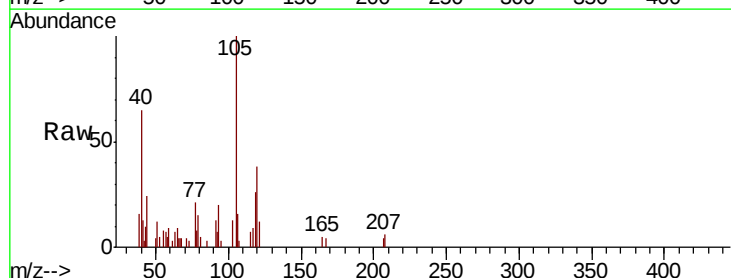
Acq: 02 Jan 2020 12:39

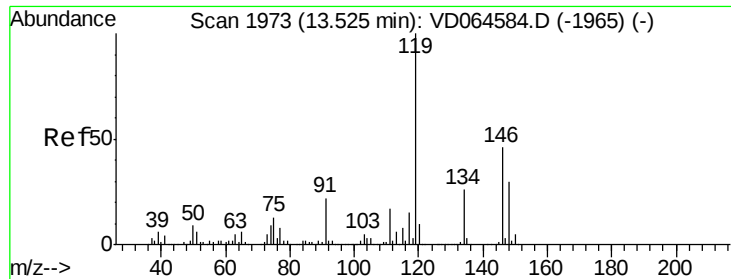
Tgt Ion:105 Resp: 8394

Ion Ratio Lower Upper

105 100

120 39.6 23.8 71.2

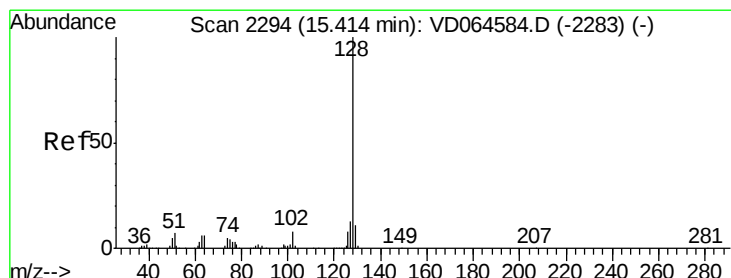
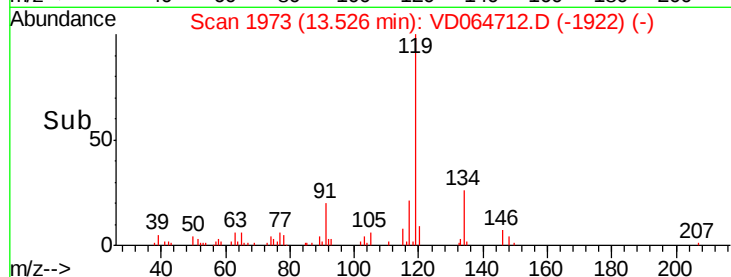
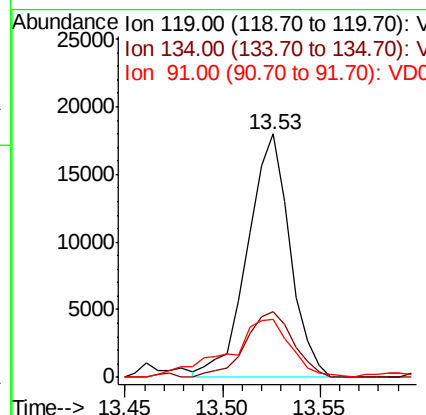
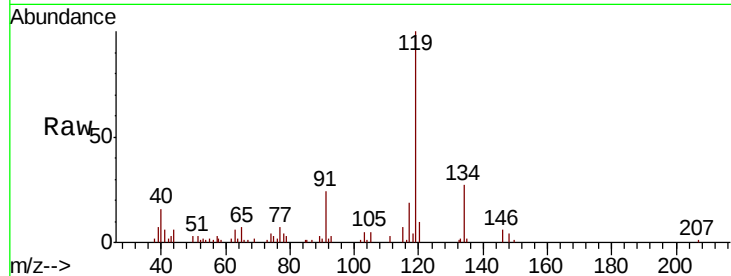




#86
p-Isopropyltoluene
Concen: 3.405 ug/l
RT: 13.53 min Scan# 1973
Delta R.T. 0.00 min
Lab File: VD064712.D
Acq: 02 Jan 2020 12:39

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

Tot Ion:119 Resp: 26965
Ion Ratio Lower Upper
119 100
134 30.5 13.4 40.1
91 35.3 11.2 33.6#



#95
Naphthalene
Concen: 3.316 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD064712.D
Acq: 02 Jan 2020 12:39

Tgt Ion:128 Resp: 13071
Ion Ratio Lower Upper
128 100
127 13.1 10.3 15.5
129 11.7 8.5 12.7

