

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV101320\
 Data File : VW016886.D
 Acq On : 12 Oct 2020 17:01
 Operator : SY/VA
 Sample : L4214-03 4PPBMDL
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Quant Time: Oct 12 23:45:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W101020S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 12 23:31:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	365037	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	562790	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	505538	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	254402	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	171111	57.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.26%	
35) Dibromofluoromethane	7.89	113	180599	52.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.72%	
50) Toluene-d8	10.33	98	678250	52.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.88%	
62) 4-Bromofluorobenzene	12.62	95	242884	54.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	9390	4.716	ug/l	96
3) Chloromethane	2.21	50	10251	4.696	ug/l	100
4) Vinyl Chloride	2.36	62	14552	4.610	ug/l	100
5) Bromomethane	2.78	94	11210	4.624	ug/l	93
6) Chloroethane	2.93	64	8899	4.430	ug/l #	85
7) Trichlorofluoromethane	3.26	101	7663	3.334	ug/l	99
8) Diethyl Ether	3.68	74	6909	4.813	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	4.07	101	14441	4.666	ug/l	98
10) Methyl Iodide	4.28	142	22717	4.591	ug/l	98
11) Tert butyl alcohol	5.16	59	6348	43.747	ug/l #	94
12) 1,1-Dichloroethene	4.06	96	14258	4.667	ug/l	89
13) Acrolein	3.90	56	4280	21.817	ug/l	93
14) Allyl chloride	4.67	41	16518	4.517	ug/l	99
15) Acrylonitrile	5.37	53	11770	24.631	ug/l	96
16) Acetone	4.13	43	12317	25.613	ug/l	95
17) Carbon Disulfide	4.39	76	35978	4.427	ug/l	98
18) Methyl Acetate	4.68	43	5978	5.420	ug/l	98
19) Methyl tert-butyl Ether	5.43	73	15669	4.759	ug/l #	89
20) Methylene Chloride	4.92	84	26444	6.939	ug/l	97
21) trans-1,2-Dichloroethene	5.43	96	16186	4.720	ug/l	92
22) Diisopropyl ether	6.32	45	31160	4.689	ug/l	95
23) Vinyl Acetate	6.26	43	97712	22.946	ug/l	98
24) 1,1-Dichloroethane	6.22	63	25641	4.866	ug/l	100
25) 2-Butanone	7.18	43	17460	27.234	ug/l	99
26) 2,2-Dichloropropane	7.16	77	17312	5.369	ug/l	92
27) cis-1,2-Dichloroethene	7.17	96	17796	4.845	ug/l	94
28) Bromochloromethane	7.52	49	9975	4.729	ug/l	99
29) Tetrahydrofuran	7.54	42	9424	26.243	ug/l	98
30) Chloroform	7.68	83	27542	4.808	ug/l	91
31) Cyclohexane	7.95	56	25279	5.624	ug/l #	79
32) 1,1,1-Trichloroethane	7.88	97	22196	4.593	ug/l	95
36) 1,1-Dichloropropene	8.09	75	21903	4.502	ug/l	99
37) Ethyl Acetate	7.26	43	7112	4.474	ug/l	97
38) Carbon Tetrachloride	8.07	117	21846	4.319	ug/l	86

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	23624	4.258	ug/l	99
40) Benzene	8.32	78	62155	4.585	ug/l	100
41) Methacrylonitrile	7.49	41	3880	4.119	ug/l	95
42) 1,2-Dichloroethane	8.40	62	17038	4.595	ug/l	97
43) Isopropyl Acetate	8.43	43	13888	4.561	ug/l	99
44) Trichloroethene	9.10	130	18212	4.340	ug/l	91
45) 1,2-Dichloropropane	9.37	63	14109	4.564	ug/l	97
46) Dibromomethane	9.46	93	7894	4.464	ug/l	95
47) Bromodichloromethane	9.65	83	19553	4.447	ug/l	99
48) Methyl methacrylate	9.44	41	6142	4.377	ug/l	95
49) 1,4-Dioxane	9.45	88	1944	95.581	ug/l #	84
51) 4-Methyl-2-Pentanone	10.21	43	36903	23.955	ug/l	98
52) Toluene	10.39	92	40378	4.506	ug/l	97
53) t-1,3-Dichloropropene	10.61	75	17152	4.285	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	21047	4.305	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	12040	4.784	ug/l	93
56) Ethyl methacrylate	10.65	69	12049	4.401	ug/l	97
57) 1,3-Dichloropropane	10.93	76	19409	4.661	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.93	63	30692	20.229	ug/l	99
59) 2-Hexanone	10.98	43	22768	22.338	ug/l	99
60) Dibromochloromethane	11.13	129	13663	4.426	ug/l	99
61) 1,2-Dibromoethane	11.24	107	11383	4.567	ug/l	97
64) Tetrachloroethene	10.87	164	16539	4.592	ug/l	94
65) Chlorobenzene	11.66	112	45078	4.546	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	15094	4.304	ug/l	99
67) Ethyl Benzene	11.73	91	74786	4.328	ug/l	97
68) m/p-Xylenes	11.84	106	58380	8.687	ug/l	100
69) o-Xylene	12.17	106	27377	4.439	ug/l	98
70) Styrene	12.18	104	43452	4.234	ug/l	100
71) Bromoform	12.35	173	7094	4.030	ug/l #	96
73) Isopropylbenzene	12.46	105	73825	4.366	ug/l	99
74) N-amyl acetate	12.27	43	11806	4.347	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	12873	4.852	ug/l	97
76) 1,2,3-Trichloropropane	12.77	75	8499m	4.477	ug/l	
77) Bromobenzene	12.75	156	19783	4.733	ug/l	98
78) n-propylbenzene	12.80	91	84946	4.356	ug/l	98
79) 2-Chlorotoluene	12.90	91	49807	4.477	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	62142	4.385	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	2901m	4.108	ug/l	
82) 4-Chlorotoluene	12.99	91	52320	4.556	ug/l	99
83) tert-Butylbenzene	13.21	119	53727	4.365	ug/l	98
84) 1,2,4-Trimethylbenzene	13.26	105	62149	4.401	ug/l	99
85) sec-Butylbenzene	13.38	105	74460	4.346	ug/l	100
86) p-Isopropyltoluene	13.50	119	69926	4.383	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	36642	4.533	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	38094	4.782	ug/l	94
89) n-Butylbenzene	13.82	91	61334	4.268	ug/l	99
90) Hexachloroethane	14.09	117	10117	4.110	ug/l	96
91) 1,2-Dichlorobenzene	13.87	146	33183	4.758	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.48	75	1962	4.829	ug/l	92

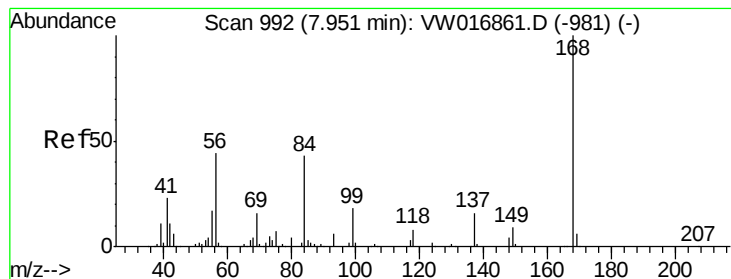
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	21355	4.438	ug/l	99
94) Hexachlorobutadiene	15.24	225	14655	4.698	ug/l	95
95) Naphthalene	15.36	128	33633	4.301	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	20061	4.792	ug/l	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

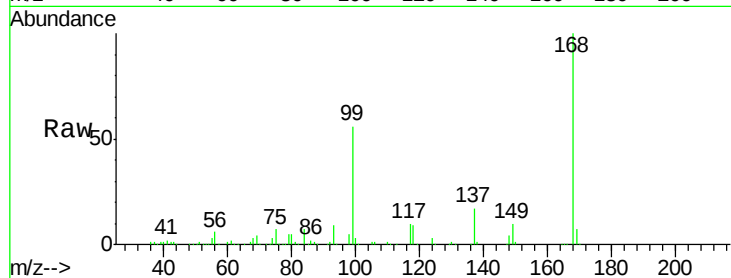
MDL-SOIL-03-QT4-2020

Tot Ion:168 Resp: 365037

Ion Ratio Lower Upper

168 100

99 56.0 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

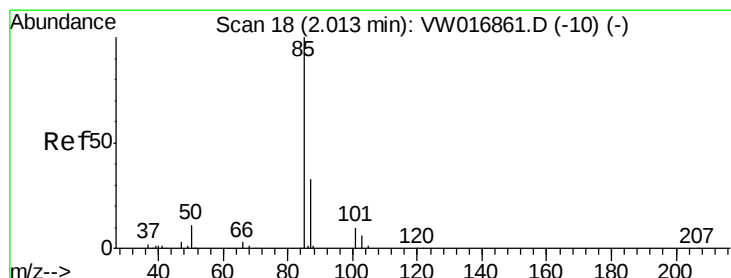
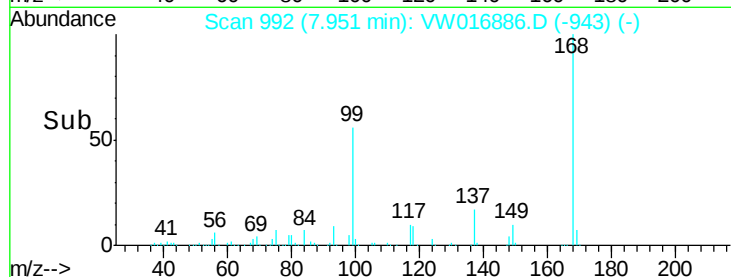
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 4.716 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW016886.D

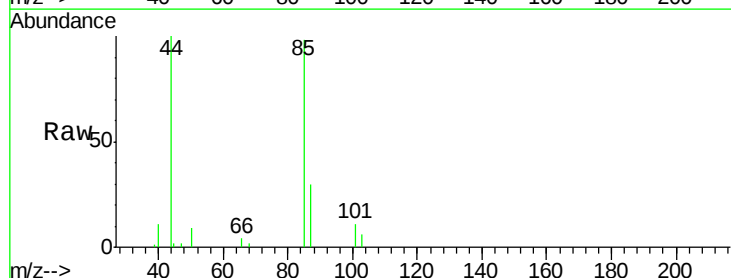
Acq: 12 Oct 2020 17:01

Tgt Ion: 85 Resp: 9390

Ion Ratio Lower Upper

85 100

87 30.3 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

4000

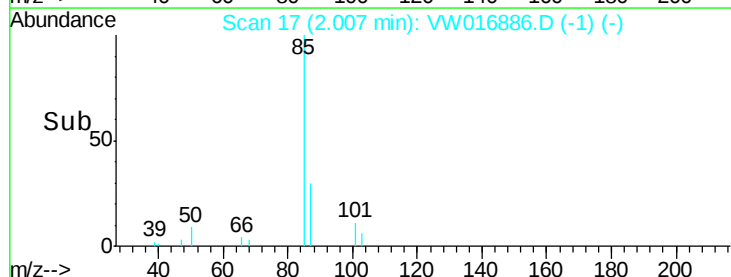
3000

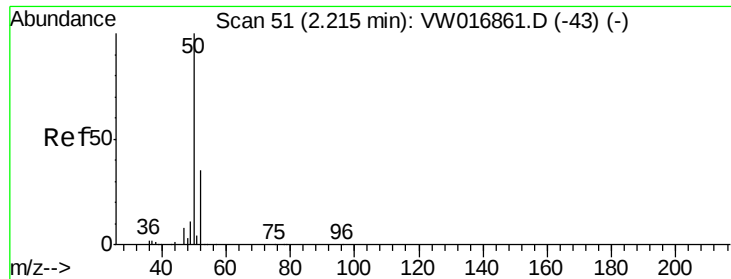
2000

1000

0

Time-->





#3

Chloromethane

Concen: 4.696 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

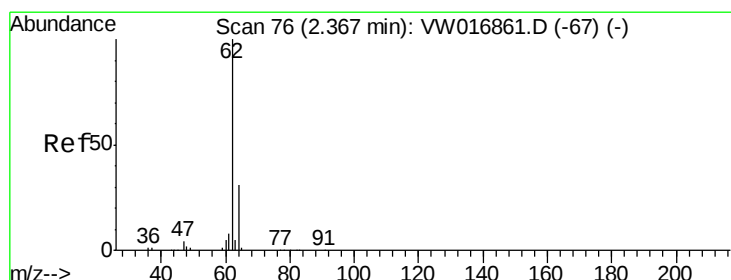
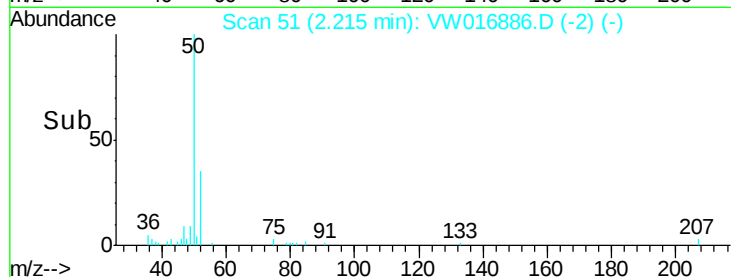
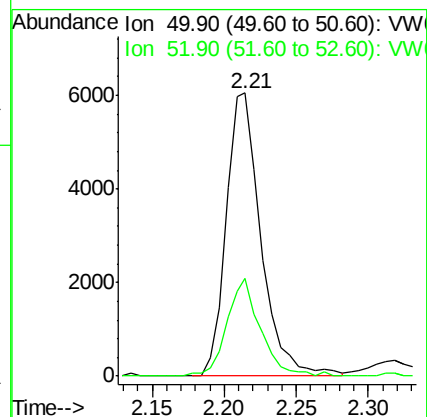
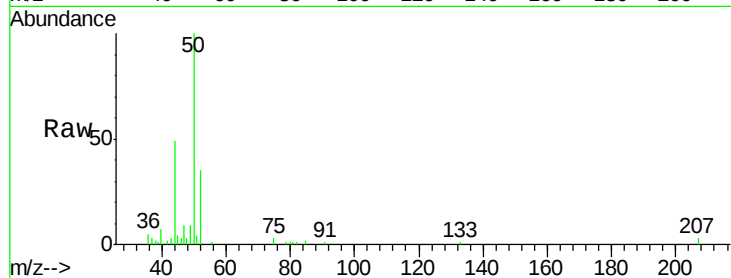
MDL-SOIL-03-QT4-2020

Tot Ion: 50 Resp: 10251

Ion Ratio Lower Upper

50 100

52 34.8 27.6 41.4



#4

Vinyl Chloride

Concen: 4.610 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW016886.D

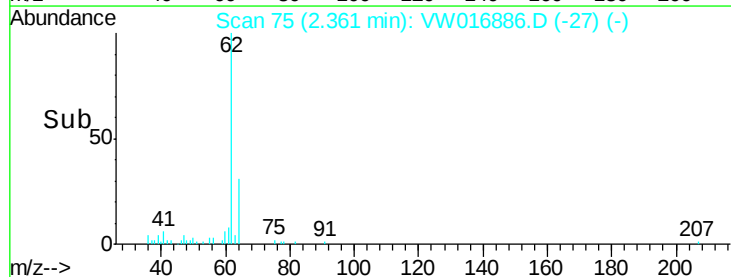
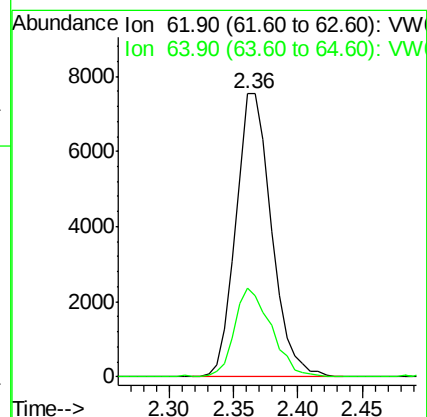
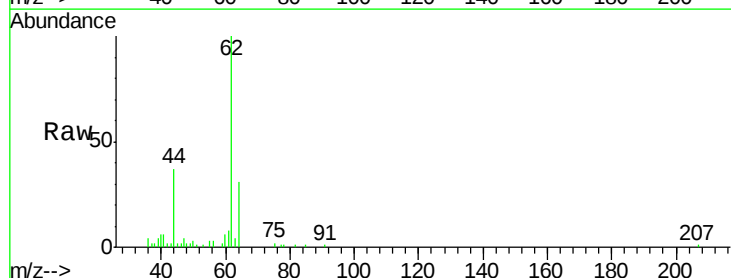
Acq: 12 Oct 2020 17:01

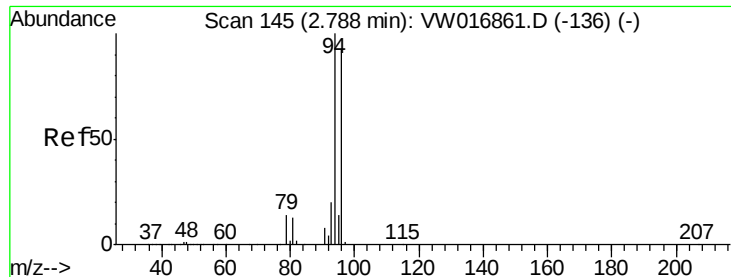
Tgt Ion: 62 Resp: 14552

Ion Ratio Lower Upper

62 100

64 31.2 25.0 37.4





#5

Bromomethane

Concen: 4.624 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

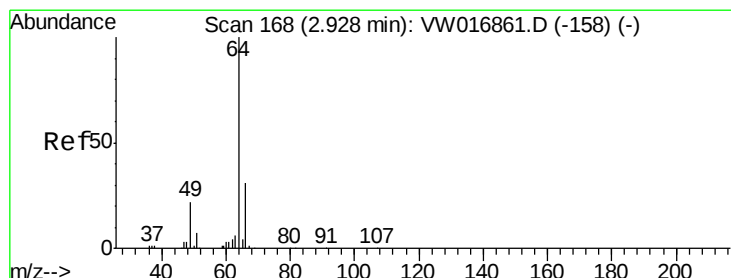
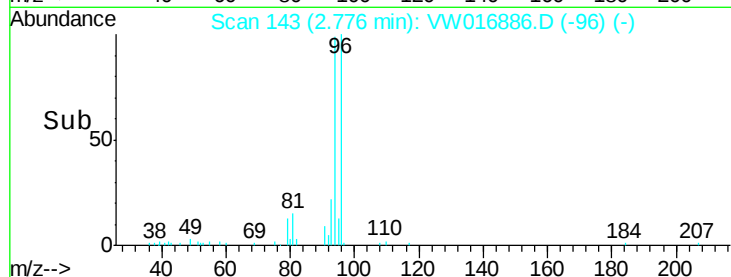
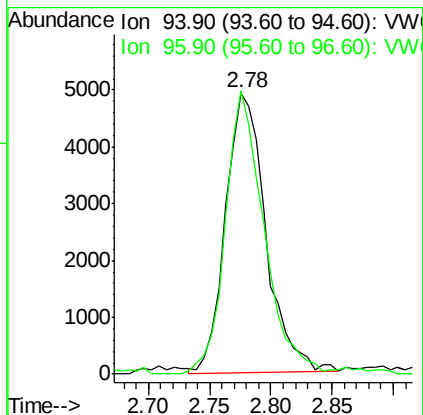
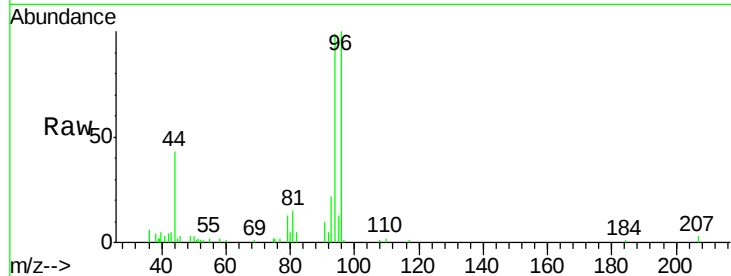
MDL-SOIL-03-QT4-2020

Tot Ion: 94 Resp: 11210

Ion Ratio Lower Upper

94 100

96 100.6 74.7 112.1



#6

Chloroethane

Concen: 4.430 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW016886.D

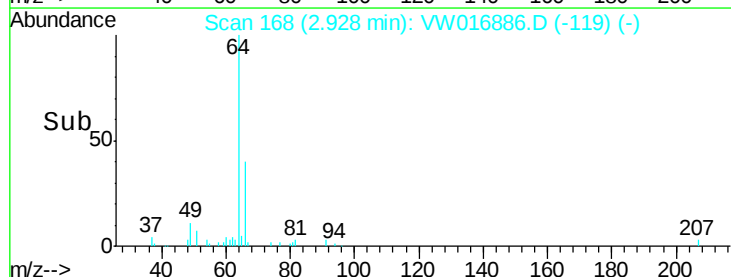
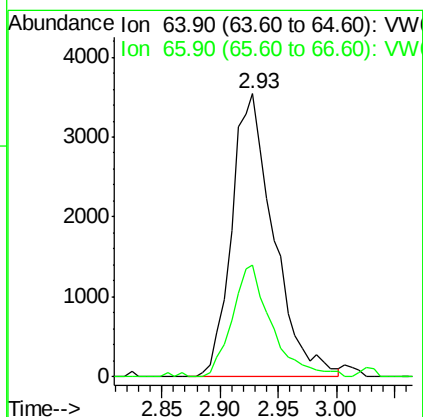
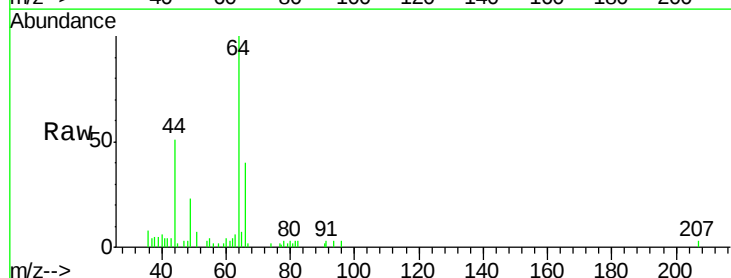
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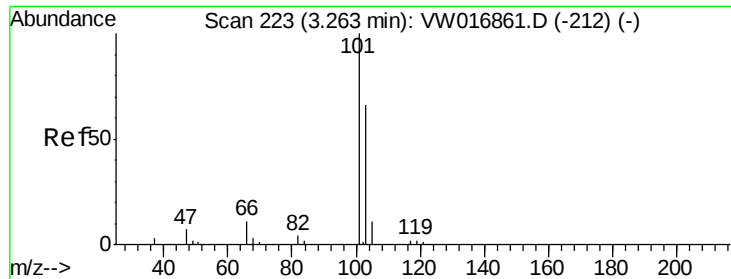
Tgt Ion: 64 Resp: 8899

Ion Ratio Lower Upper

64 100

66 39.5 25.0 37.6#



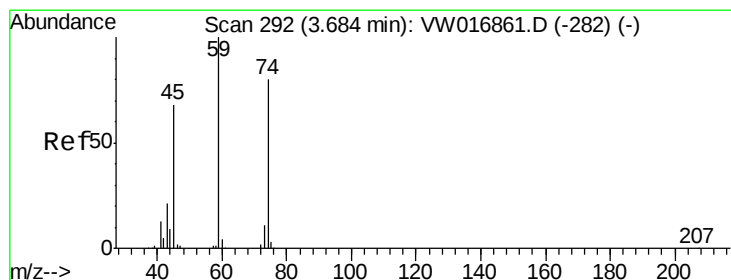
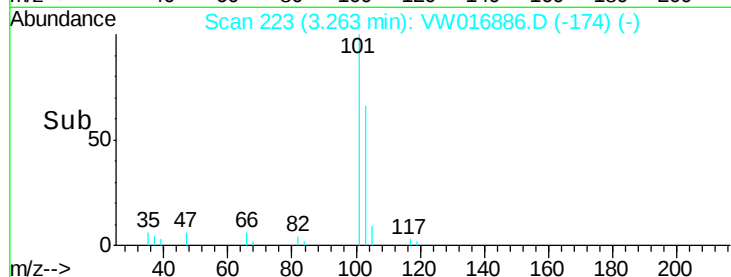
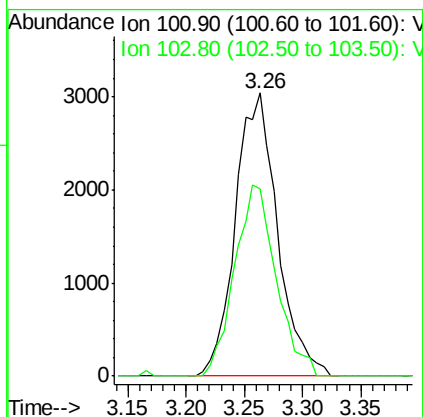
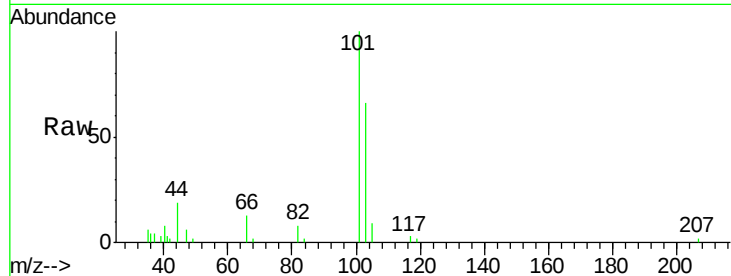


#7

Trichlorofluoromethane
 Concen: 3.334 ug/l
 RT: 3.26 min Scan# 223
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

Instrument :
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 ClientSampleId :
 MDL-SOIL-03-QT4-2020

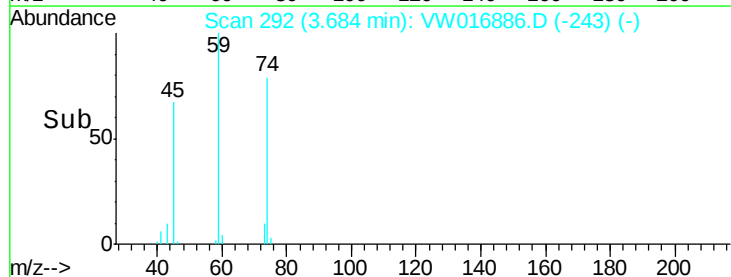
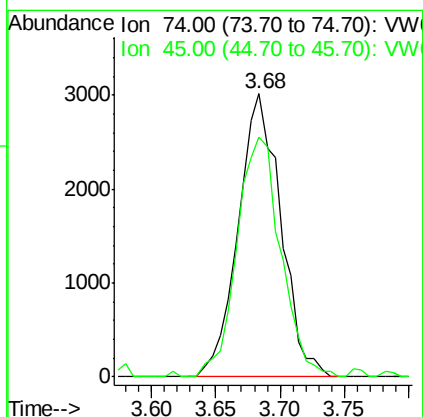
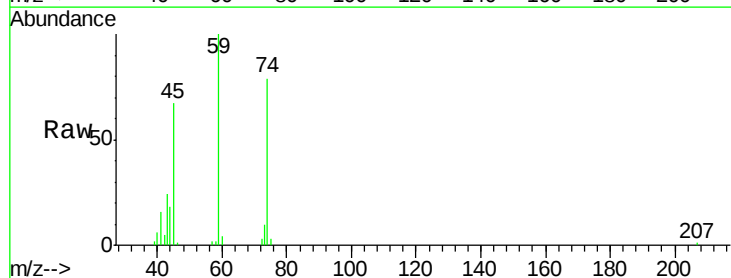
Tot Ion:101 Resp: 7663
 Ion Ratio Lower Upper
 101 100
 103 66.4 52.6 79.0

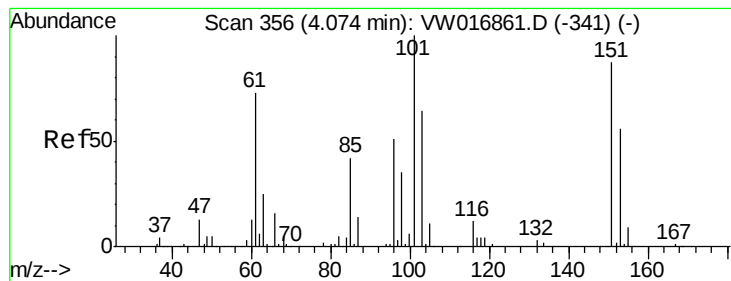


#8

Diethyl Ether
 Concen: 4.813 ug/l
 RT: 3.68 min Scan# 292
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

Tgt Ion: 74 Resp: 6909
 Ion Ratio Lower Upper
 74 100
 45 87.0 41.1 123.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.666 ug/l

RT: 4.07 min Scan# 355

Delta R.T. -0.01 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

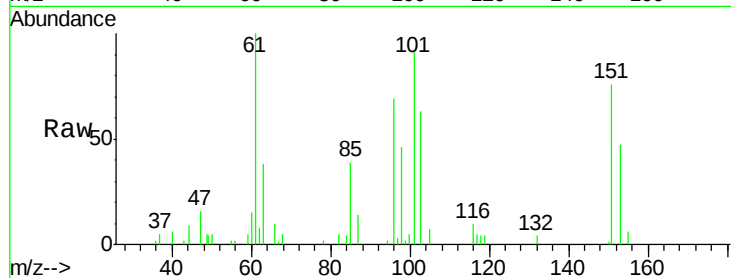
Tot Ion:101 Resp: 14441

Ion Ratio Lower Upper

101 100

85 41.0 33.2 49.8

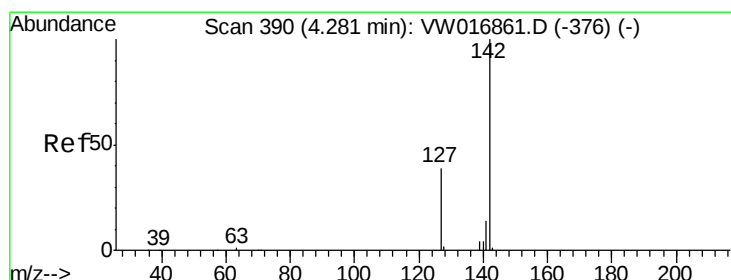
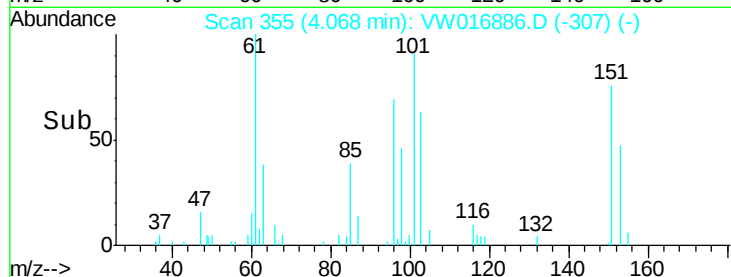
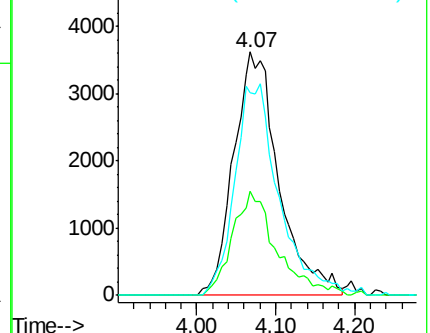
151 85.3 66.6 100.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.591 ug/l

RT: 4.28 min Scan# 390

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

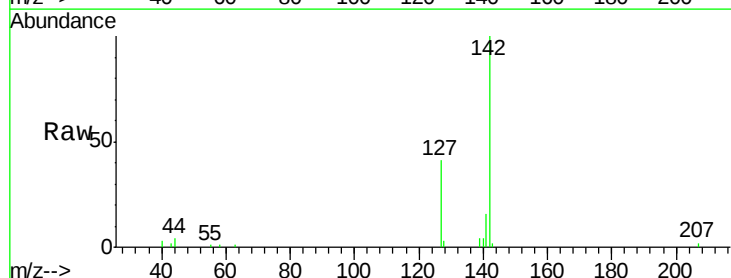
Tgt Ion:142 Resp: 22717

Ion Ratio Lower Upper

142 100

127 41.7 32.4 48.6

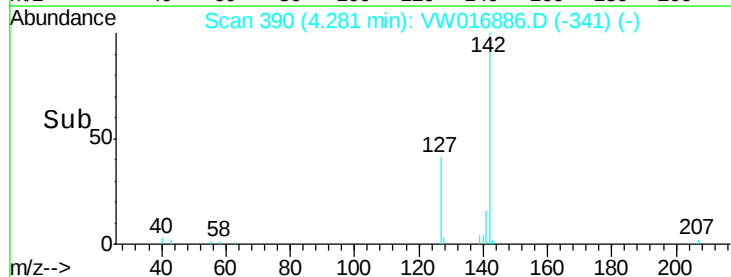
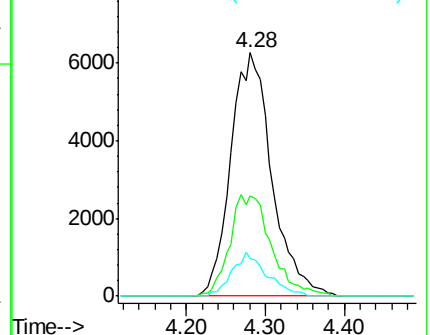
141 15.1 11.4 17.0

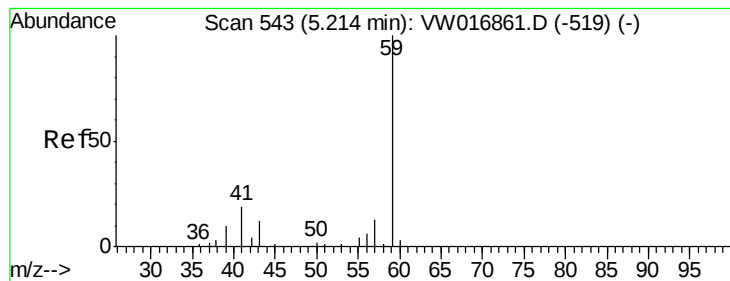


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



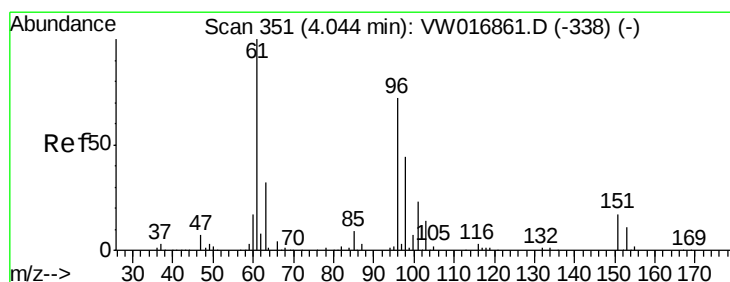
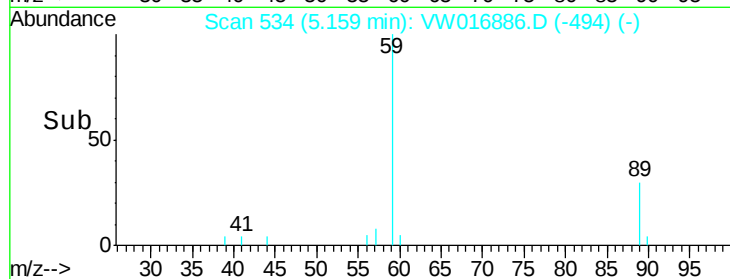
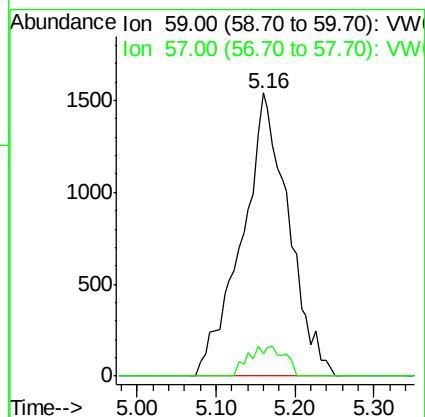
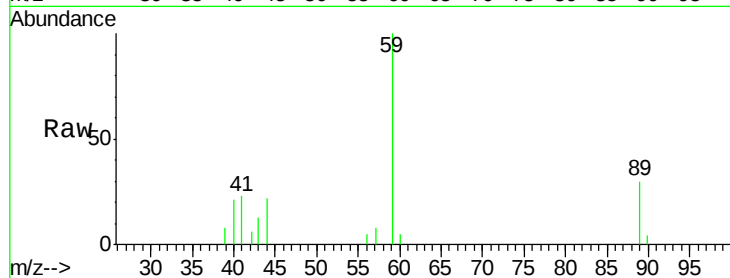


#11

Tert butyl alcohol
 Concen: 43.747 ug/l
 RT: 5.16 min Scan# 534
 Delta R.T. -0.05 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

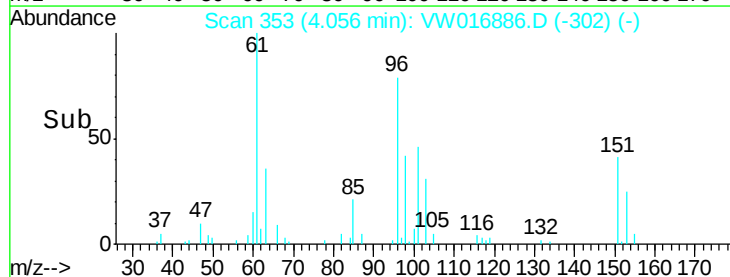
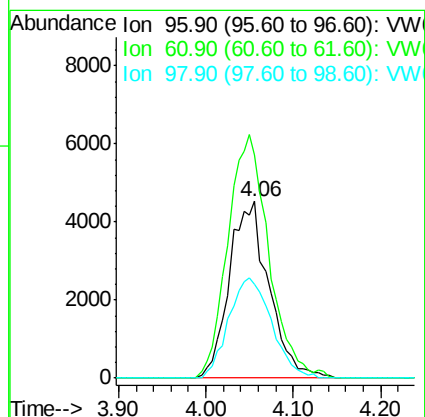
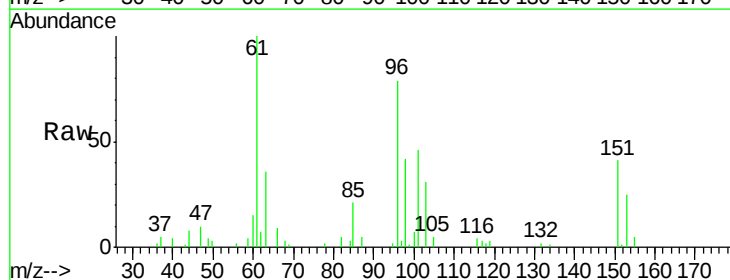
Tot Ion: 59 Resp: 6348
 Ion Ratio Lower Upper
 59 100
 57 8.1 4.7 7.1#

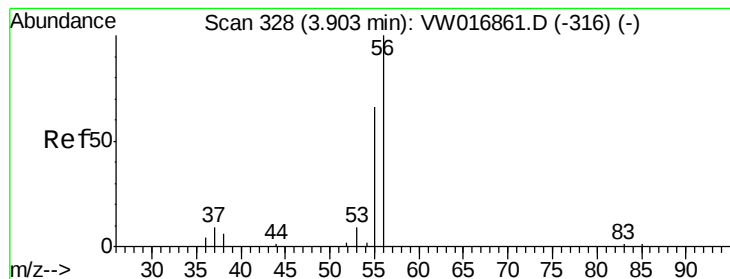


#12

1,1-Dichloroethene
 Concen: 4.667 ug/l
 RT: 4.06 min Scan# 353
 Delta R.T. 0.01 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

Tgt Ion: 96 Resp: 14258
 Ion Ratio Lower Upper
 96 100
 61 126.5 111.7 167.5
 98 53.1 49.0 73.4





#13

Acrolein

Concen: 21.817 ug/l

RT: 3.90 min Scan# 327

Delta R.T. -0.01 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

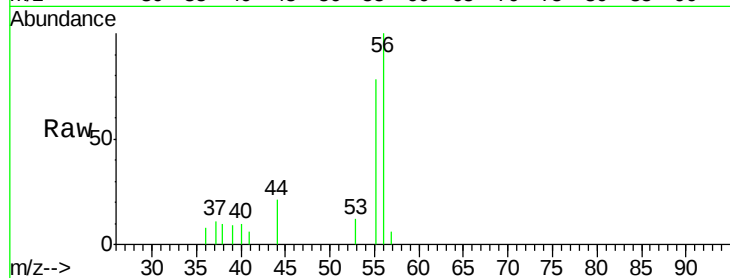
MDL-SOIL-03-QT4-2020

Tot Ion: 56 Resp: 4280

Ion Ratio Lower Upper

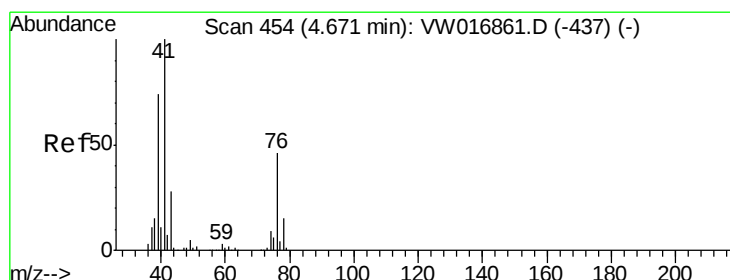
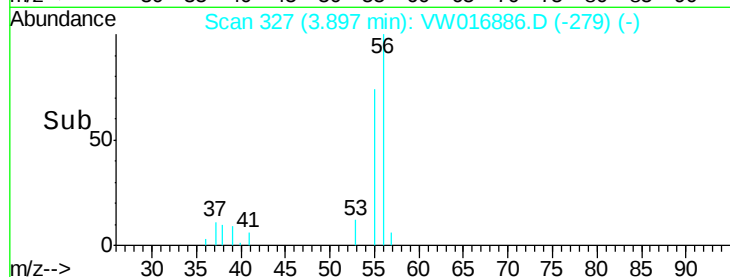
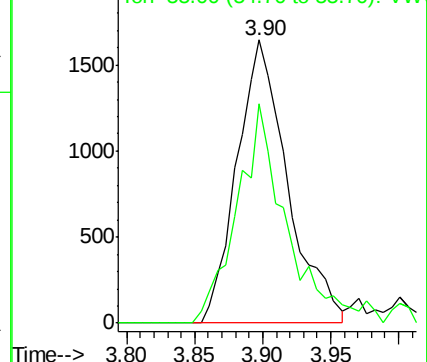
56 100

55 76.0 55.9 83.9



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 4.517 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

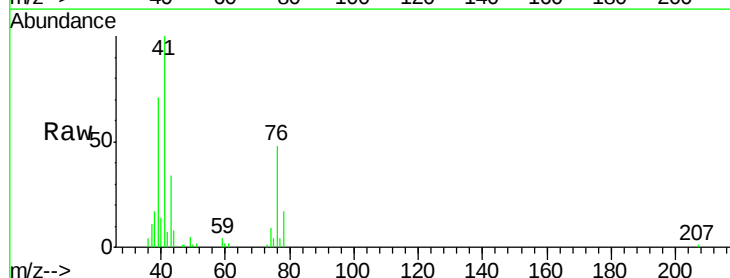
Tgt Ion: 41 Resp: 16518

Ion Ratio Lower Upper

41 100

39 72.8 57.8 86.8

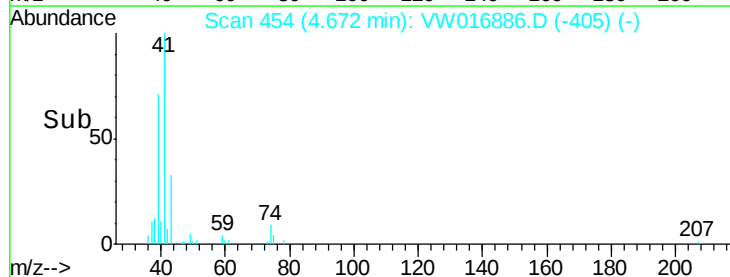
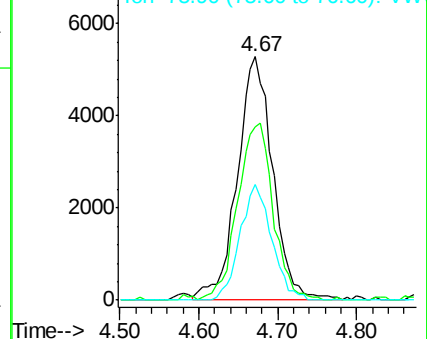
76 42.3 35.1 52.7

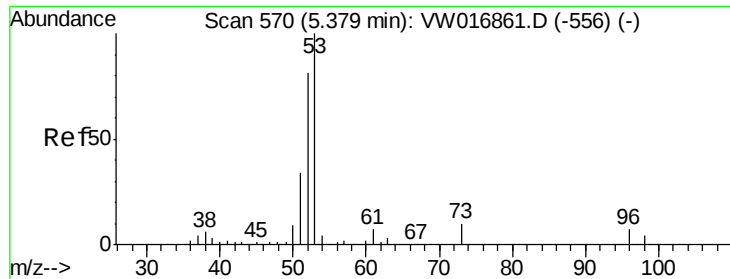


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





#15

Acrylonitrile

Concen: 24.631 ug/l

RT: 5.37 min Scan# 569

Delta R.T. -0.01 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

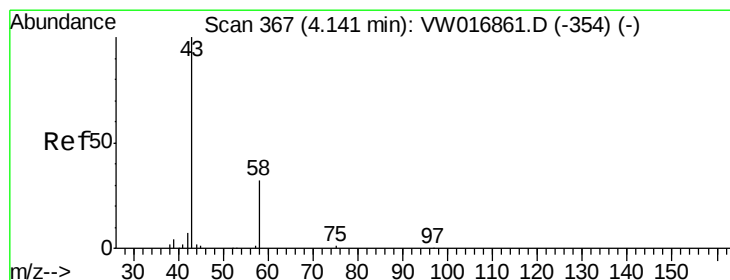
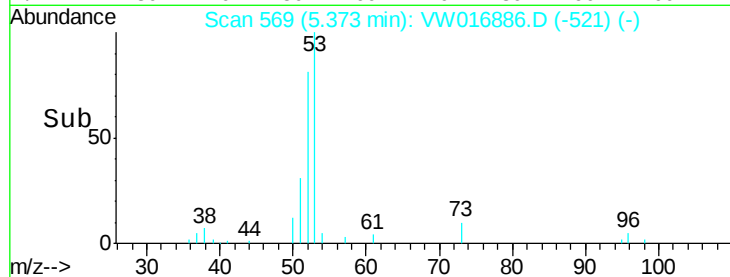
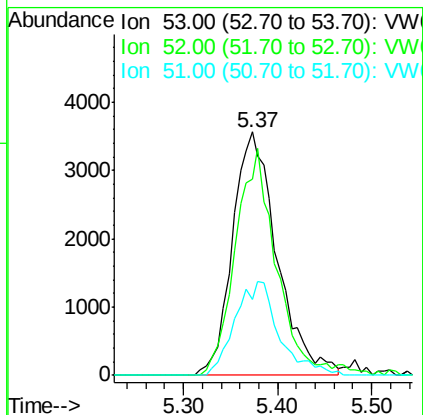
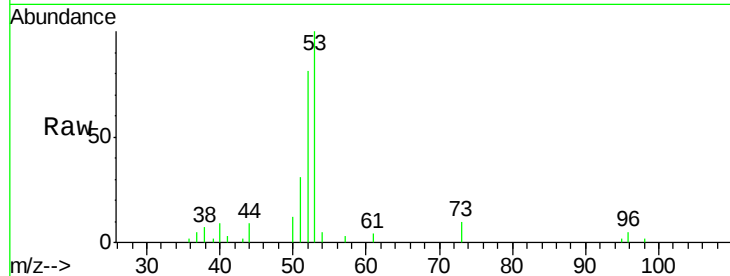
Tot Ion: 53 Resp: 11770

Ion Ratio Lower Upper

53 100

52 84.7 65.0 97.4

51 38.0 29.1 43.7



#16

Acetone

Concen: 25.613 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.01 min

Lab File: VW016886.D

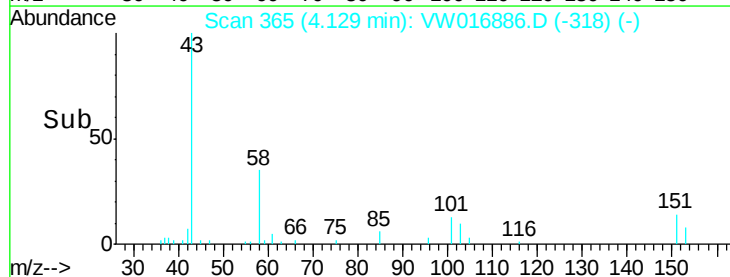
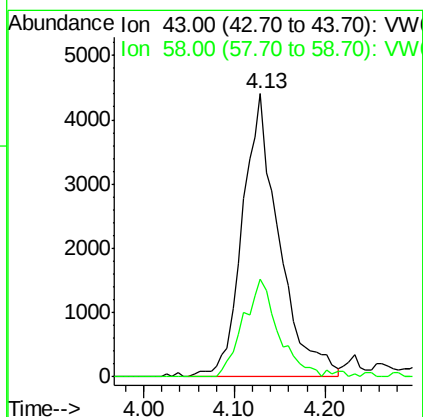
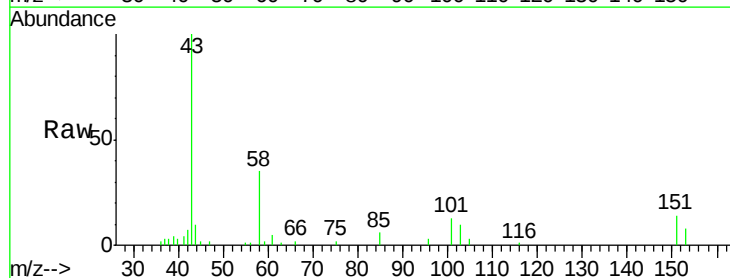
Acq: 12 Oct 2020 17:01

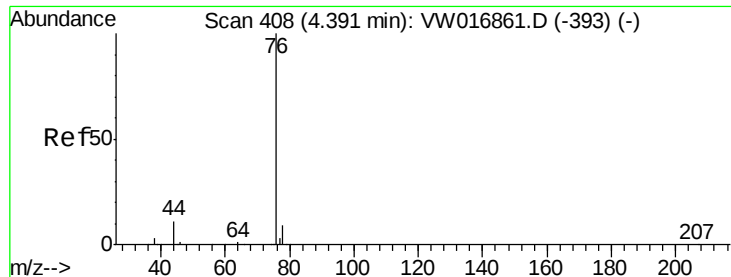
Tgt Ion: 43 Resp: 12317

Ion Ratio Lower Upper

43 100

58 34.7 25.7 38.5





#17

Carbon Disulfide

Concen: 4.427 ug/l

RT: 4.39 min Scan# 408

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

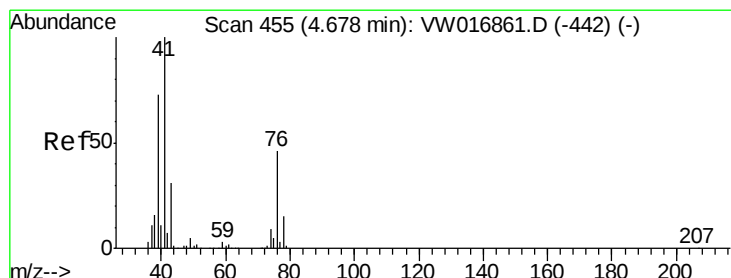
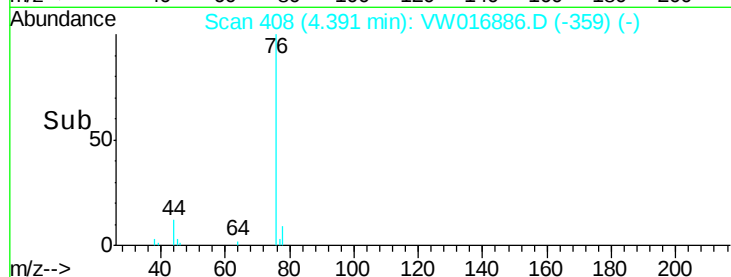
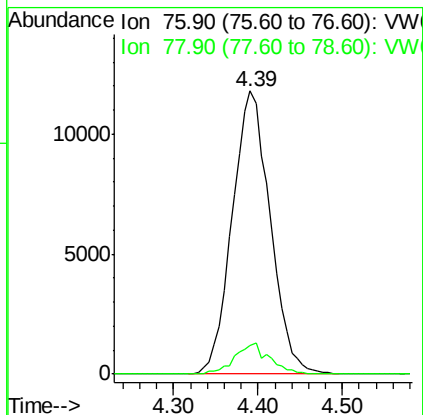
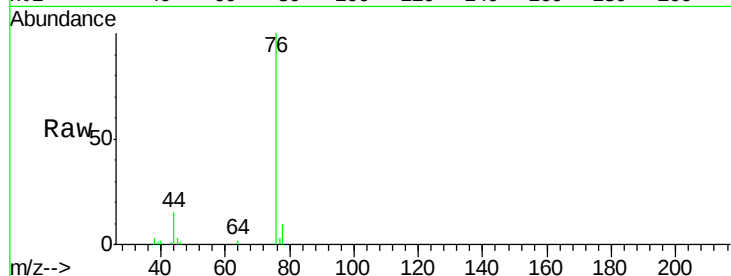
MDL-SOIL-03-QT4-2020

Tot Ion: 76 Resp: 35978

Ion Ratio Lower Upper

76 100

78 10.1 7.4 11.2



#18

Methyl Acetate

Concen: 5.420 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.00 min

Lab File: VW016886.D

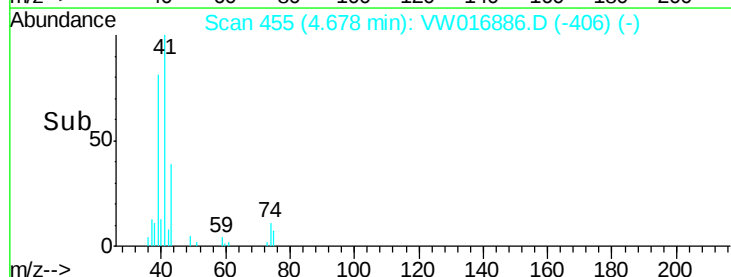
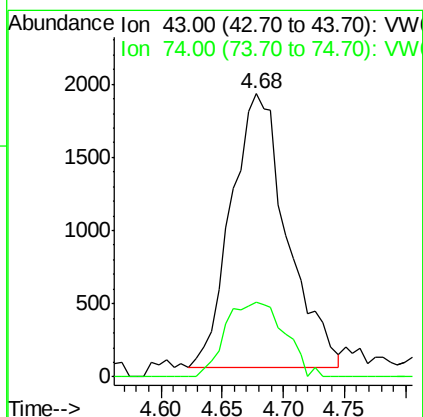
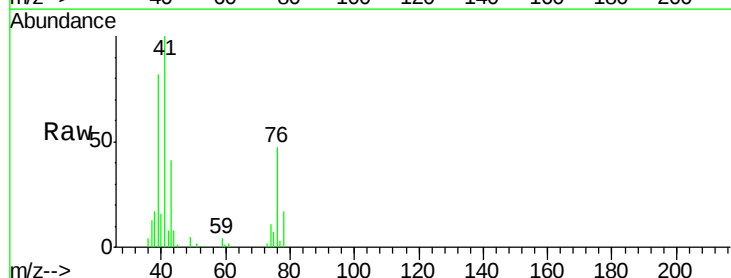
Acq: 12 Oct 2020 17:01

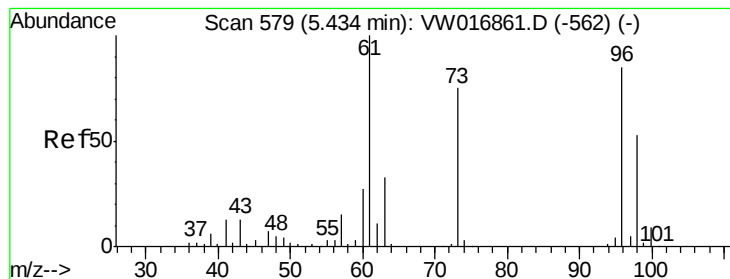
Tgt Ion: 43 Resp: 5978

Ion Ratio Lower Upper

43 100

74 28.8 23.8 35.6





#19

Methyl tert-butyl Ether

Concen: 4.759 ug/l

RT: 5.43 min Scan# 579

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

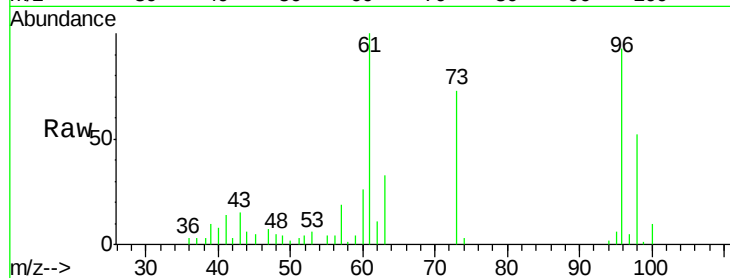
MDL-SOIL-03-QT4-2020

Tot Ion: 73 Resp: 15669

Ion Ratio Lower Upper

73 100

57 25.2 16.1 24.1#



Abundance Ion 73.00 (72.70 to 73.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.43

4000

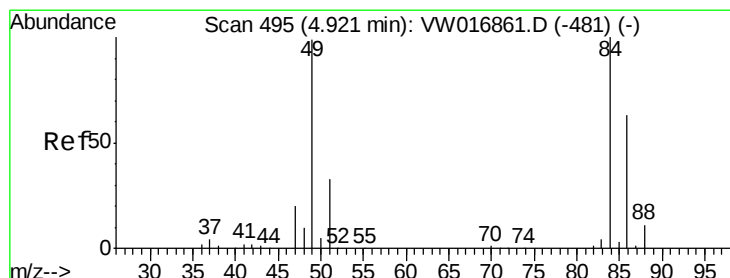
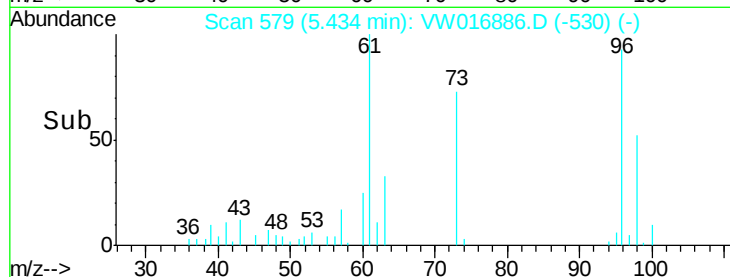
3000

2000

1000

0

Time--> 5.30 5.40 5.50



#20

Methylene Chloride

Concen: 6.939 ug/l

RT: 4.92 min Scan# 495

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Tgt Ion: 84 Resp: 26444

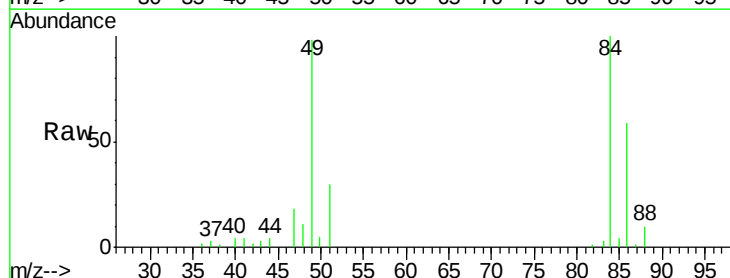
Ion Ratio Lower Upper

84 100

49 97.9 79.0 118.6

51 30.3 26.1 39.1

86 59.2 50.1 75.1



Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

10000

8000

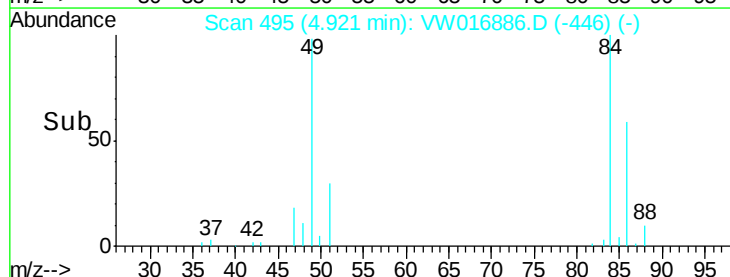
6000

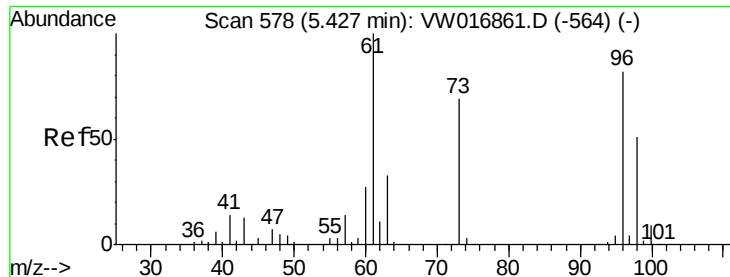
4000

2000

0

Time--> 4.80 4.90 5.00 5.10





#21

trans-1,2-Dichloroethene

Concen: 4.720 ug/l

RT: 5.43 min Scan# 578

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

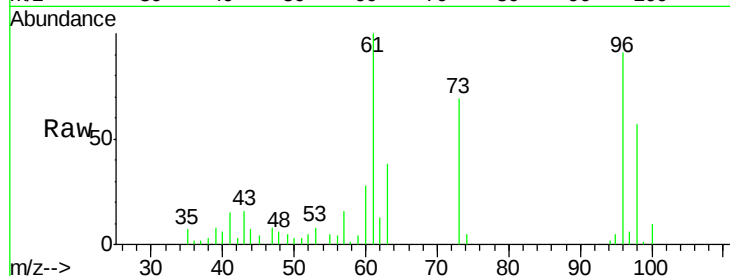
Tot Ion: 96 Resp: 16186

Ion Ratio Lower Upper

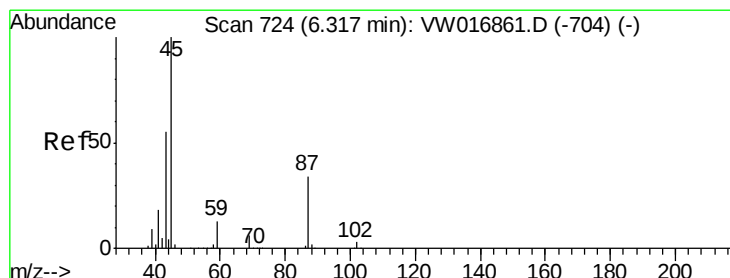
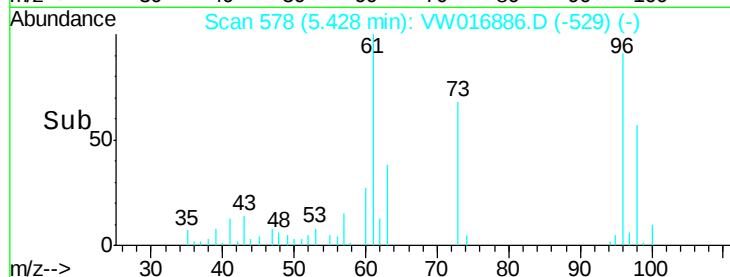
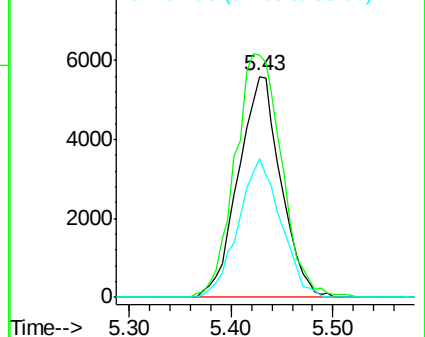
96 100

61 109.7 97.4 146.0

98 63.0 49.4 74.0



Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 4.689 ug/l

RT: 6.32 min Scan# 724

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Tgt Ion: 45 Resp: 31160

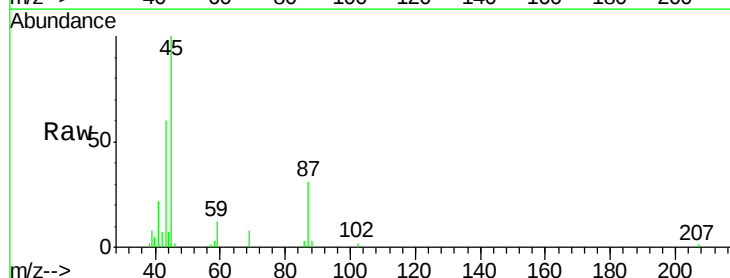
Ion Ratio Lower Upper

45 100

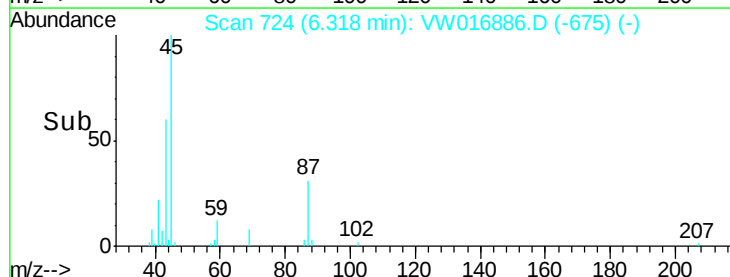
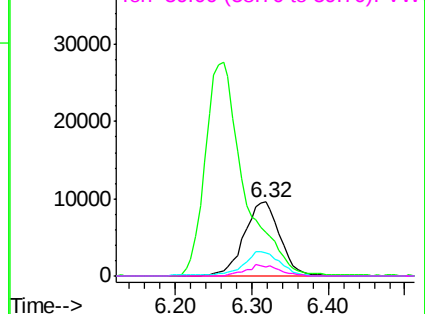
43 57.9 43.8 65.8

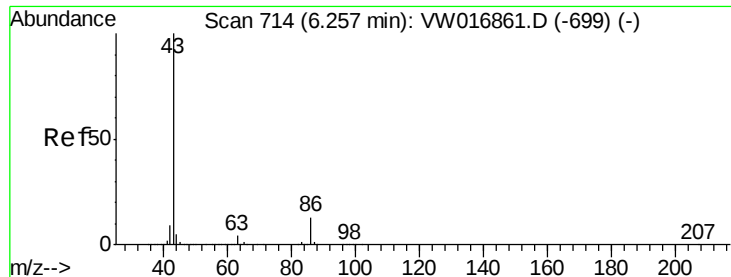
87 30.8 27.6 41.4

59 11.8 10.8 16.2



Abundance Ion 45.00 (44.70 to 45.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 87.00 (86.70 to 87.70): VW
Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 22.946 ug/l

RT: 6.26 min Scan# 715

Delta R.T. 0.01 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

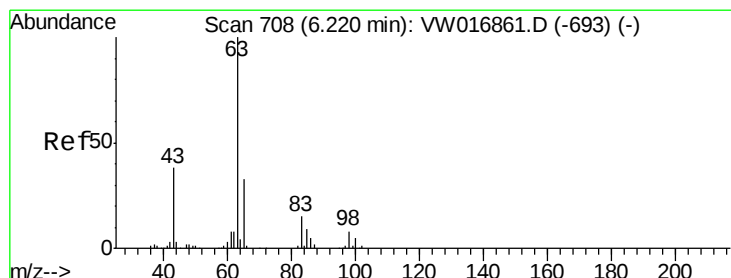
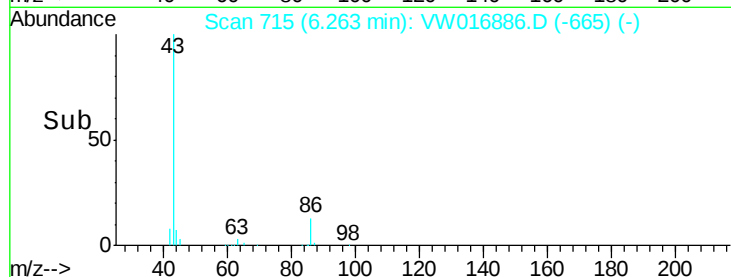
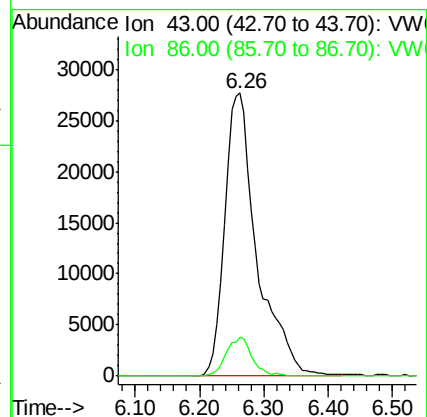
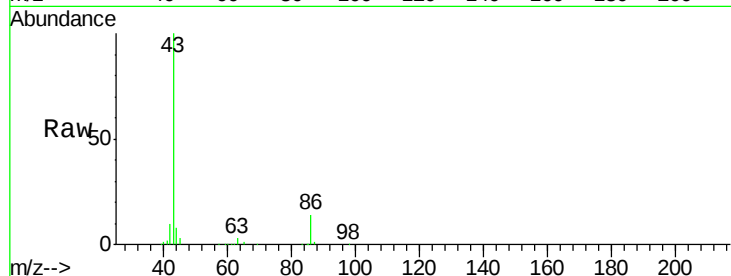
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 97712

Ion Ratio Lower Upper

43 100

86 13.6 10.2 15.4



#24

1,1-Dichloroethane

Concen: 4.866 ug/l

RT: 6.22 min Scan# 708

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

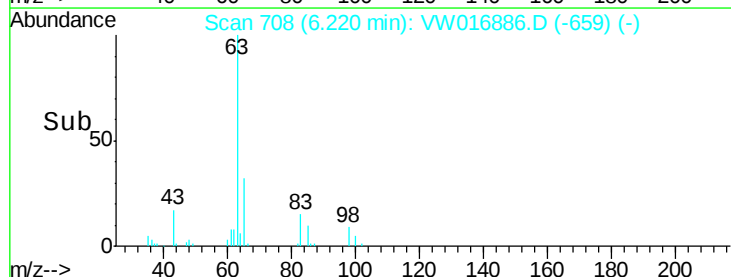
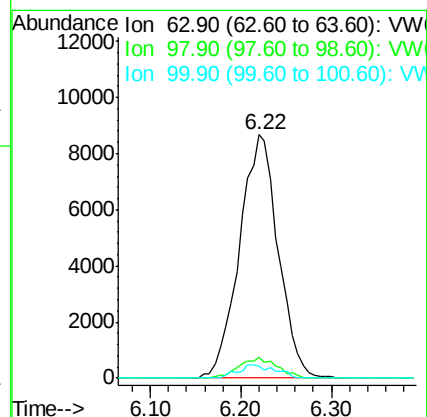
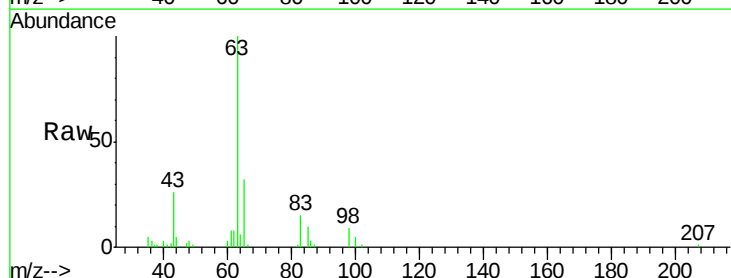
Tgt Ion: 63 Resp: 25641

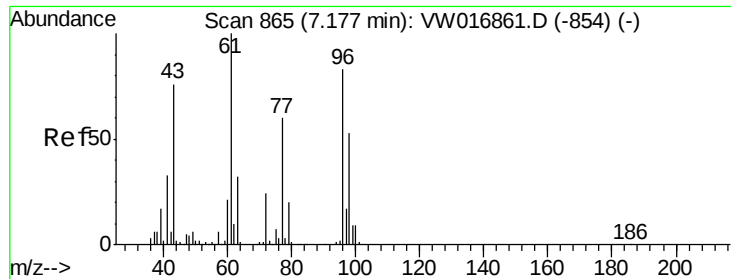
Ion Ratio Lower Upper

63 100

98 8.6 4.2 12.6

100 5.1 2.6 7.8





#25

2-Butanone

Concen: 27.234 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

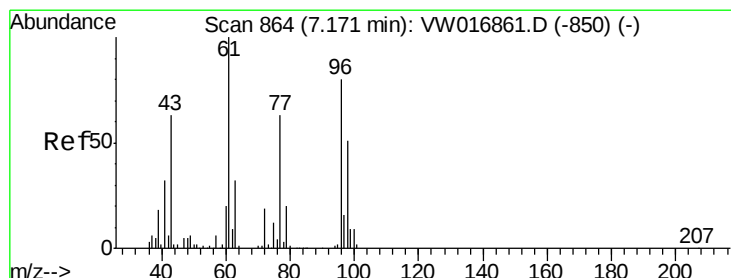
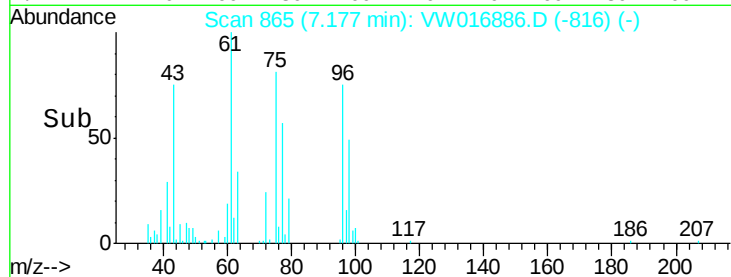
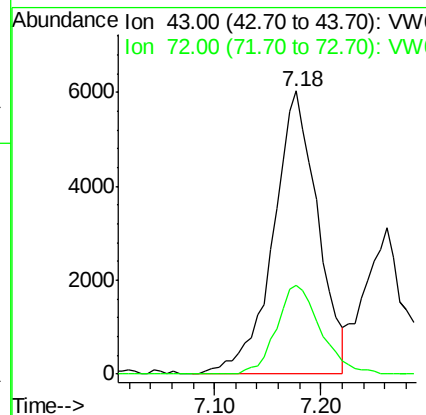
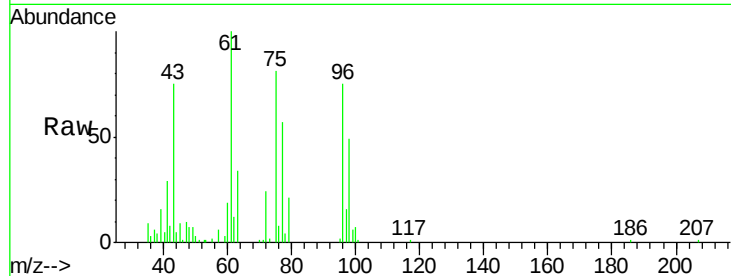
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 17460

Ion Ratio Lower Upper

43 100

72 31.5 25.4 38.2



#26

2,2-Dichloropropane

Concen: 5.369 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW016886.D

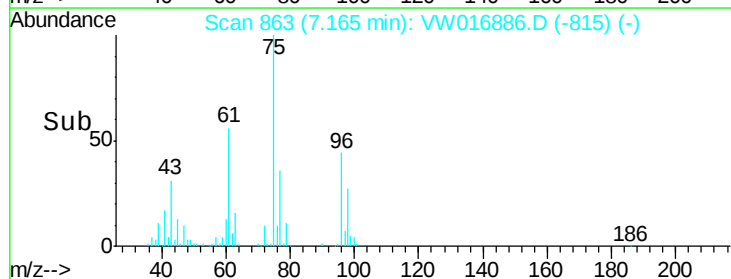
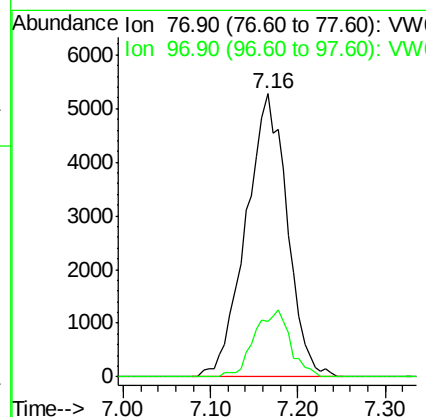
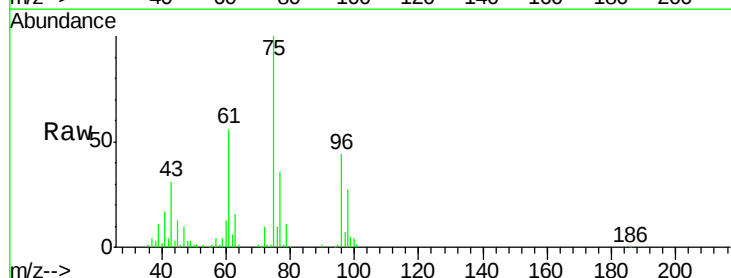
Acq: 12 Oct 2020 17:01

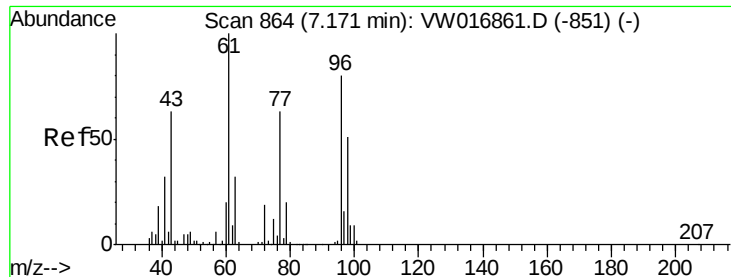
Tgt Ion: 77 Resp: 17312

Ion Ratio Lower Upper

77 100

97 20.7 12.4 37.4





#27

cis-1,2-Dichloroethene

Concen: 4.845 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

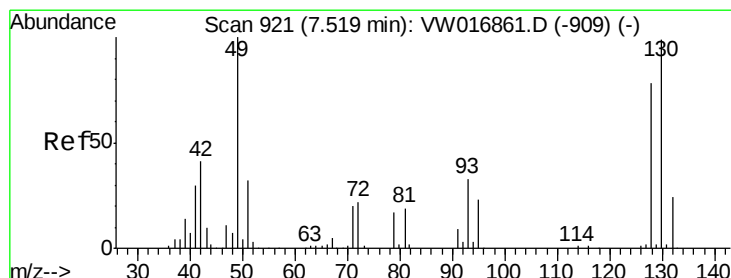
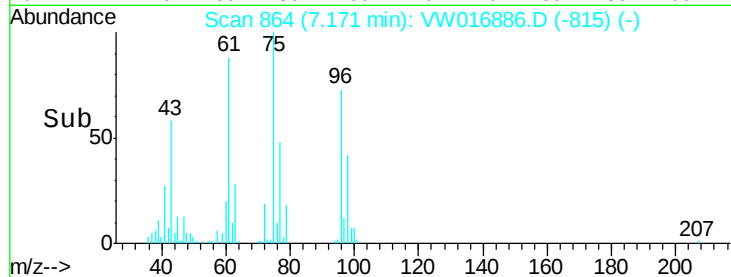
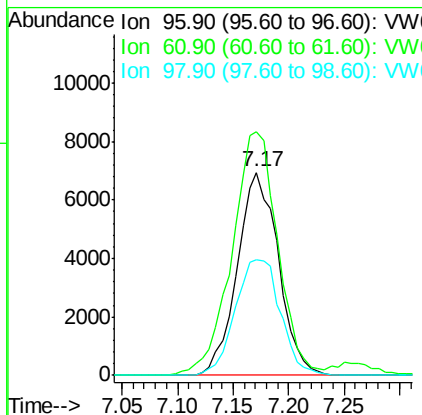
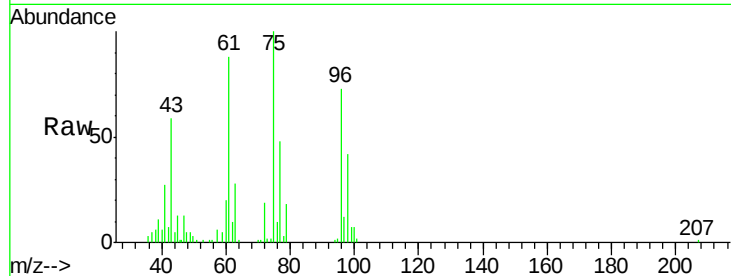
Tot Ion: 96 Resp: 17796

Ion Ratio Lower Upper

96 100

61 133.5 0.0 249.6

98 62.9 0.0 129.4



#28

Bromochloromethane

Concen: 4.729 ug/l

RT: 7.52 min Scan# 921

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

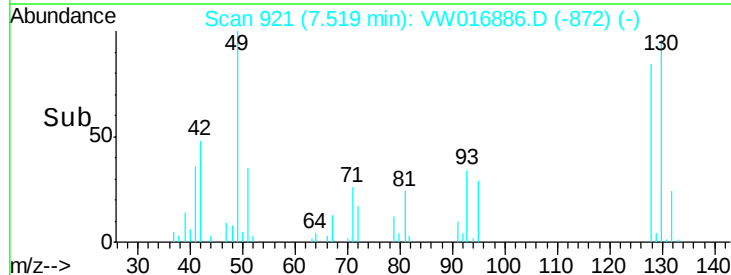
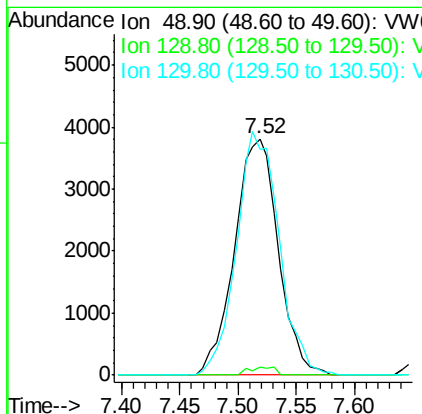
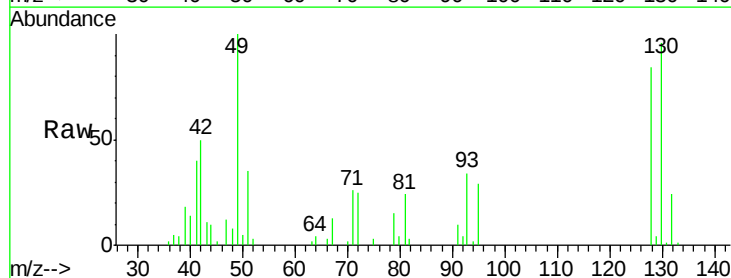
Tgt Ion: 49 Resp: 9975

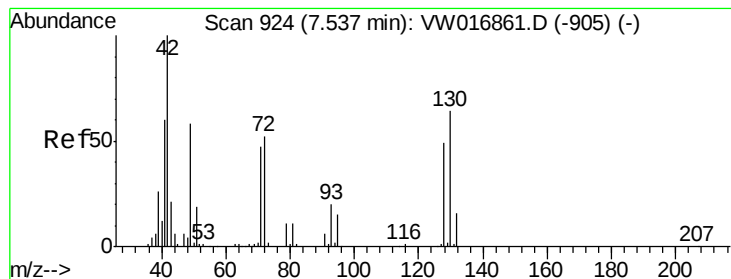
Ion Ratio Lower Upper

49 100

129 2.1 0.0 4.8

130 100.4 81.3 121.9





#29

Tetrahydrofuran

Concen: 26.243 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

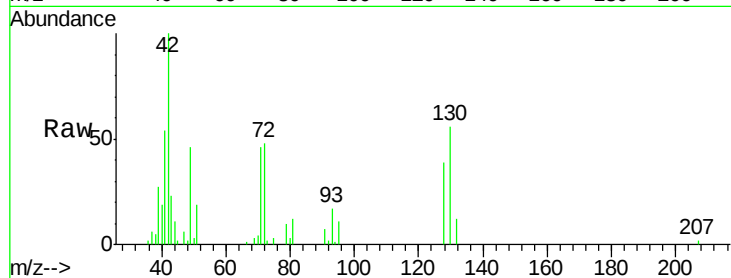
Tot Ion: 42 Resp: 9424

Ion Ratio Lower Upper

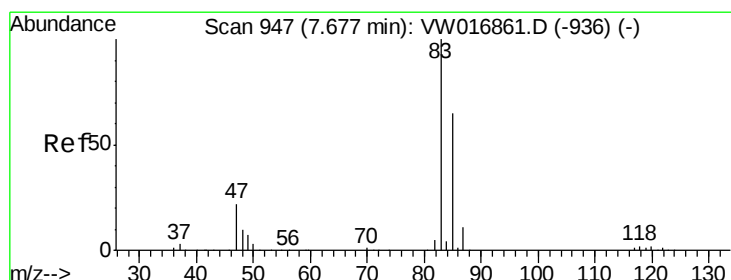
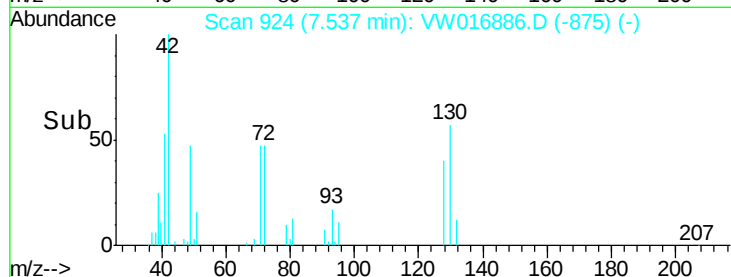
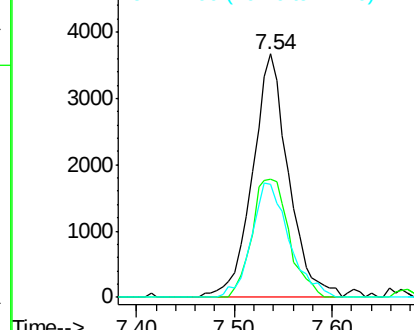
42 100

72 50.3 42.0 63.0

71 49.0 39.0 58.6



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#30

Chloroform

Concen: 4.808 ug/l

RT: 7.68 min Scan# 947

Delta R.T. 0.00 min

Lab File: VW016886.D

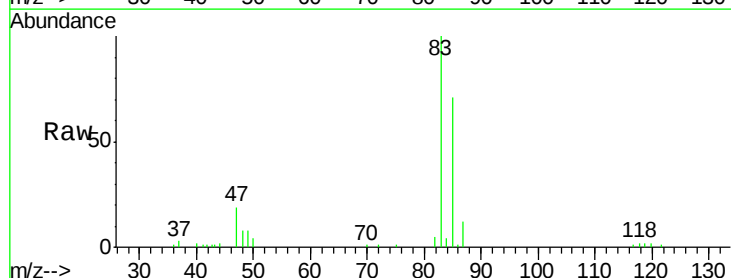
Acq: 12 Oct 2020 17:01

Tgt Ion: 83 Resp: 27542

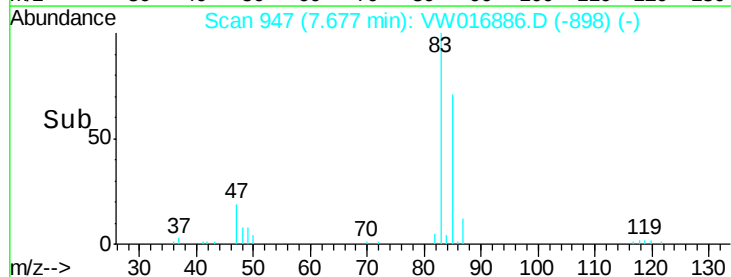
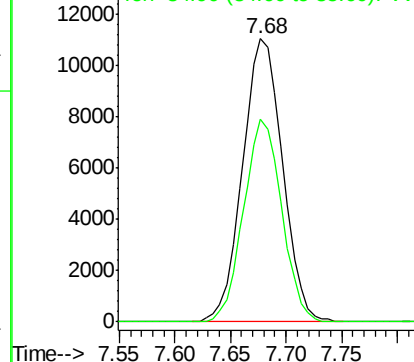
Ion Ratio Lower Upper

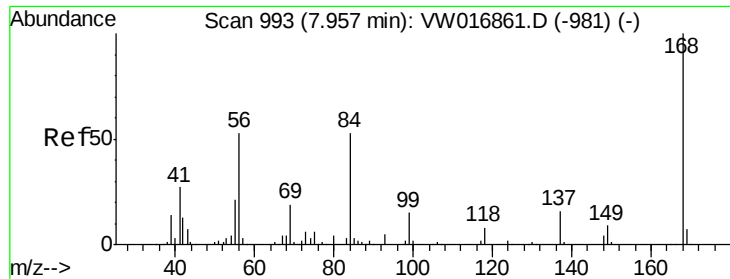
83 100

85 71.5 51.7 77.5



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

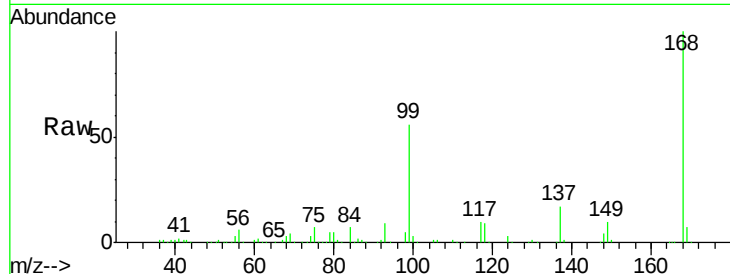




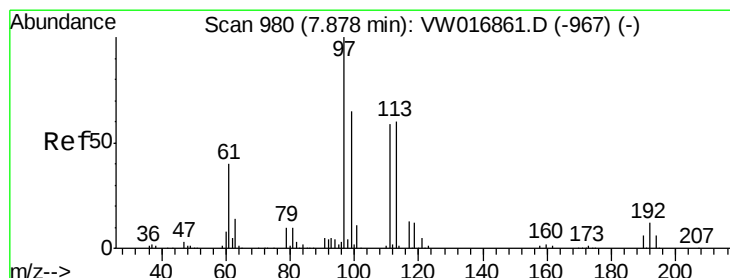
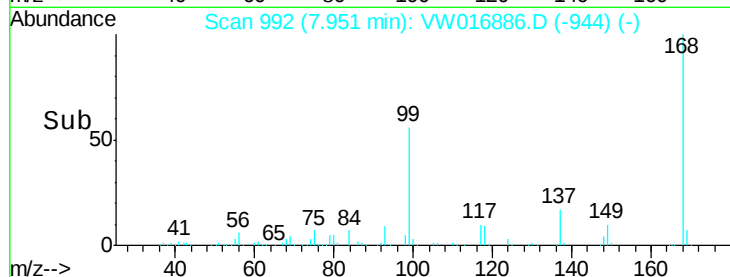
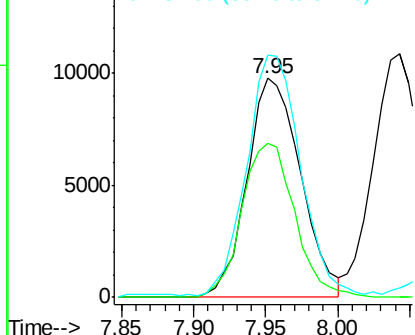
#31
Cyclohexane
Concen: 5.624 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion: 56 Resp: 25279
Ion Ratio Lower Upper
56 100
69 70.4 29.3 43.9#
84 108.9 80.5 120.7

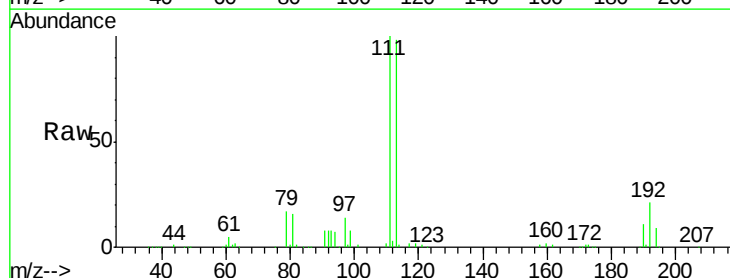


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

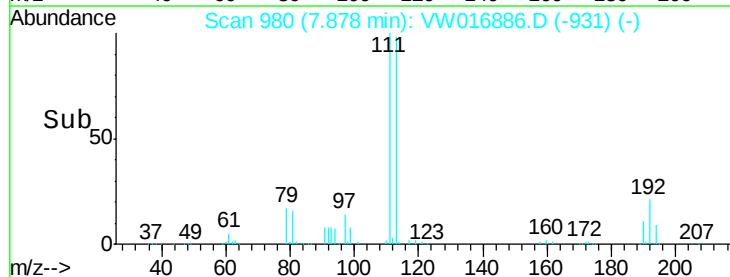
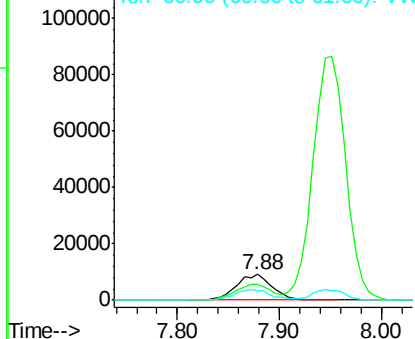


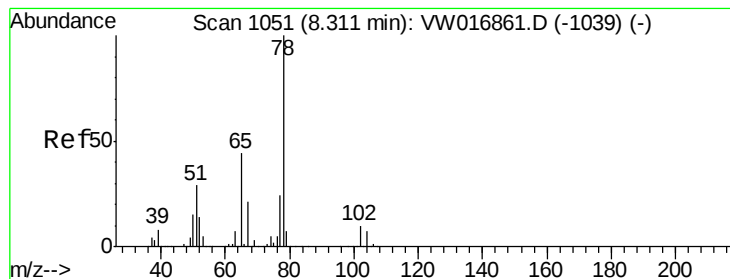
#32
1,1,1-Trichloroethane
Concen: 4.593 ug/l
RT: 7.88 min Scan# 980
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

Tgt Ion: 97 Resp: 22196
Ion Ratio Lower Upper
97 100
99 61.2 52.4 78.6
61 41.9 31.9 47.9



Abundance Ion 96.90 (96.60 to 97.60): VW
Ion 98.90 (98.60 to 99.60): VW
Ion 60.90 (60.60 to 61.60): VW





#33

1,2-Dichloroethane-d4

Concen: 57.628 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

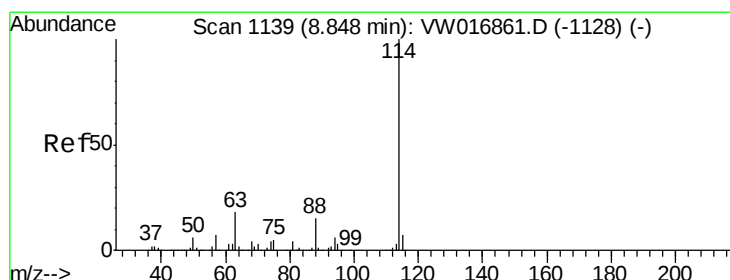
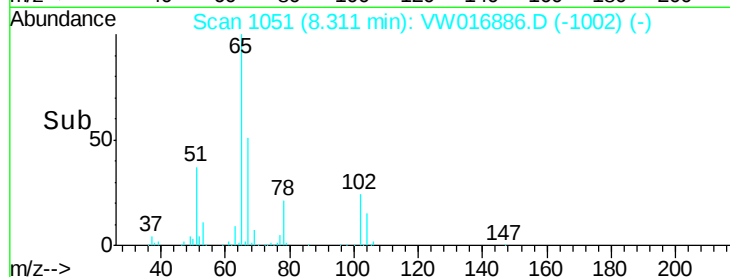
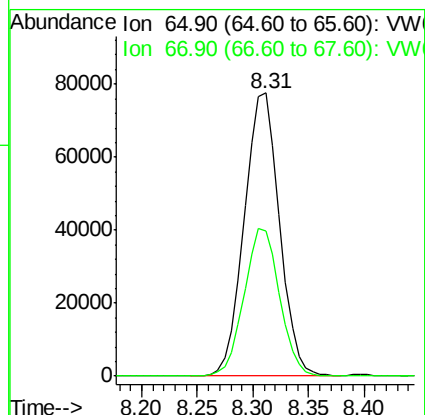
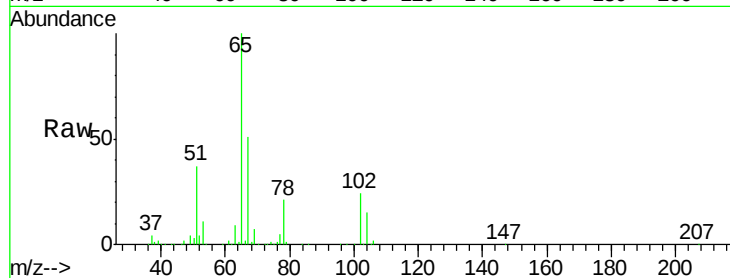
MDL-SOIL-03-QT4-2020

Tot Ion: 65 Resp: 171111

Ion Ratio Lower Upper

65 100

67 52.7 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

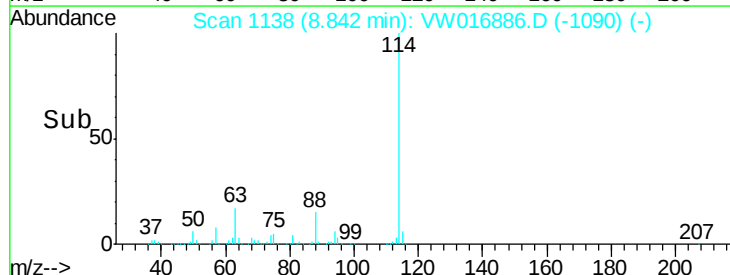
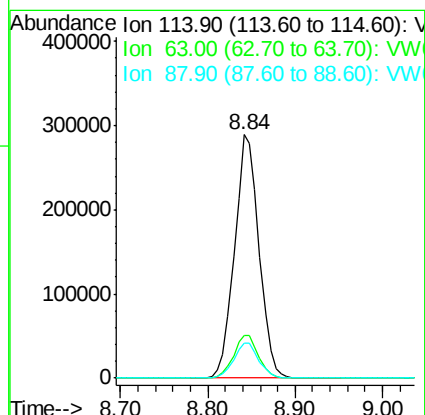
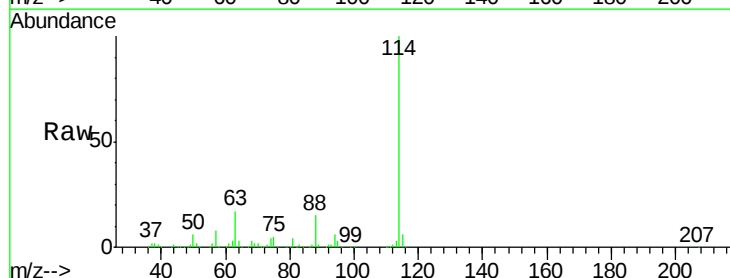
Tgt Ion: 114 Resp: 562790

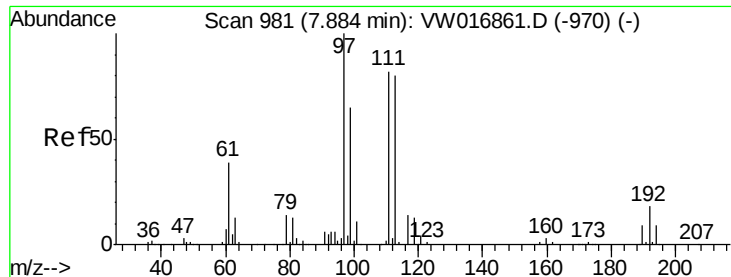
Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.6

88 14.6 0.0 30.4

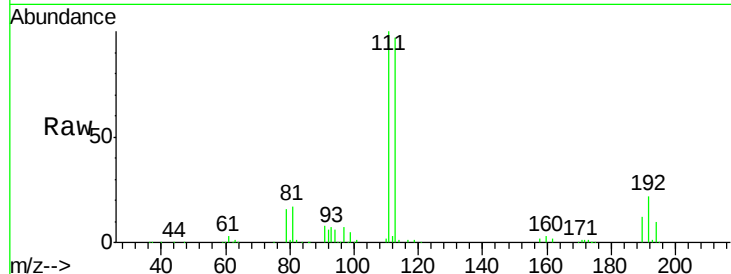




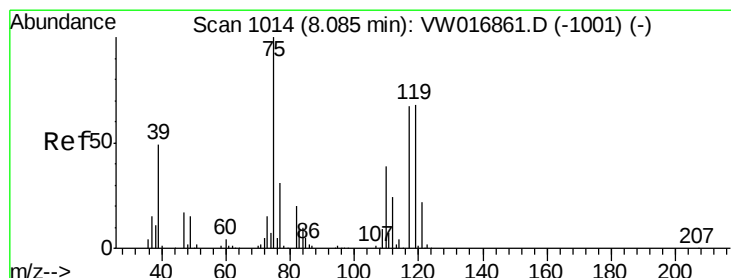
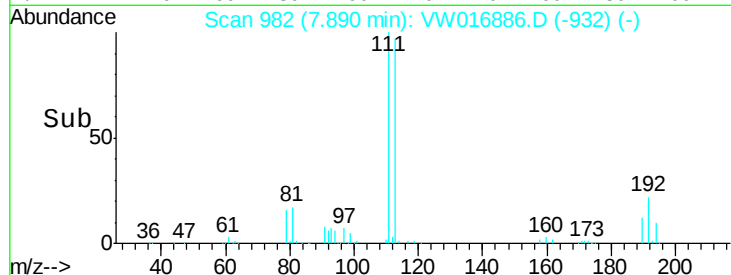
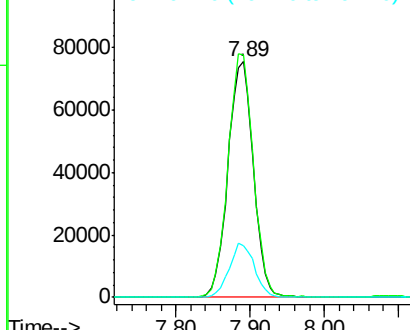
#35
 Dibromofluoromethane
 Concen: 52.356 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.01 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.4	122.2
192	22.7	17.8	26.8

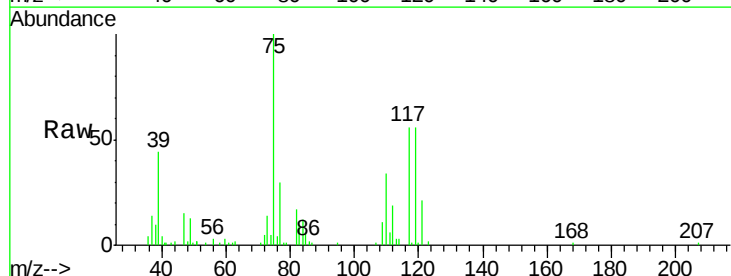


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

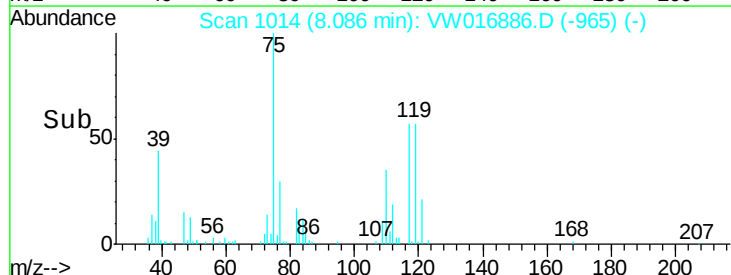
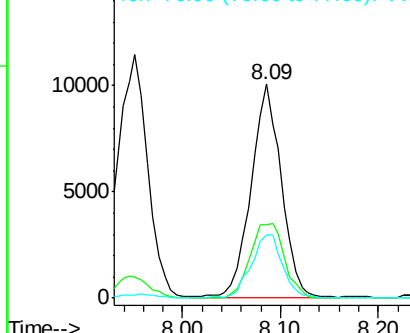


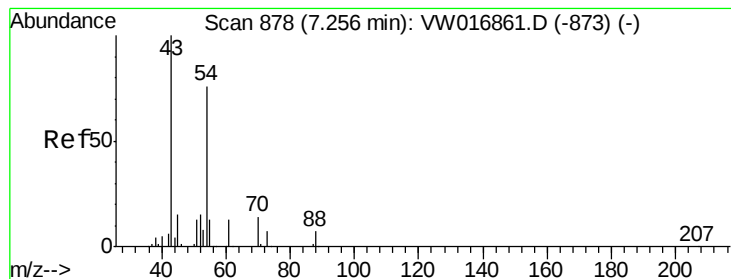
#36
 1,1-Dichloropropene
 Concen: 4.502 ug/l
 RT: 8.09 min Scan# 1014
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	39.2	19.3	57.9
77	30.4	25.0	37.6



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





#37

Ethyl Acetate

Concen: 4.474 ug/l

RT: 7.26 min Scan# 879

Delta R.T. 0.01 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

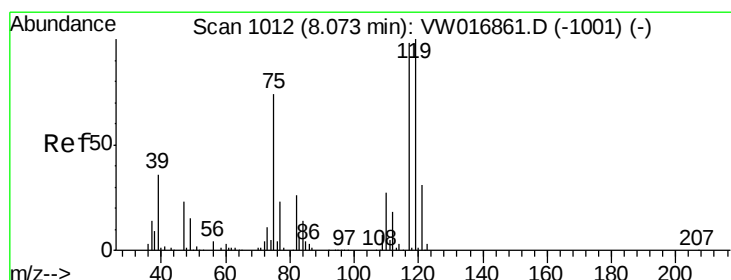
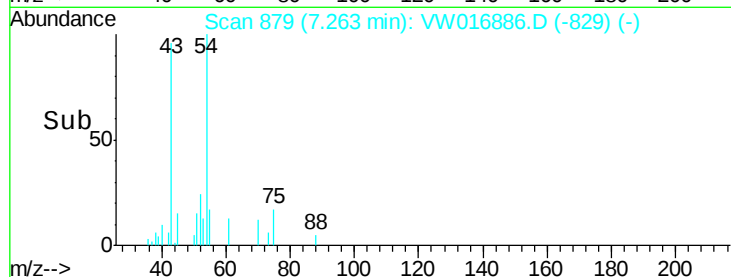
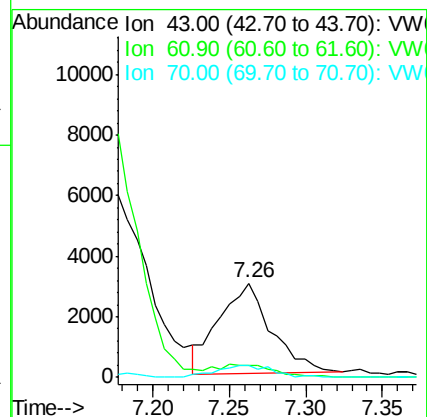
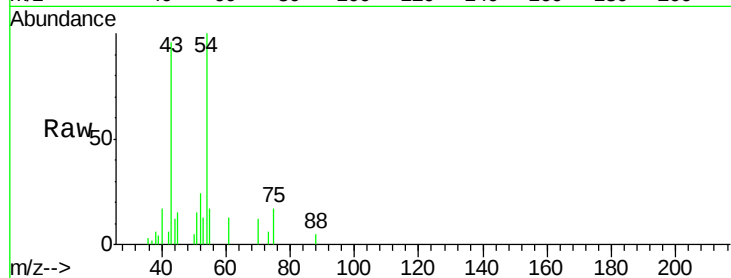
Tot Ion: 43 Resp: 7112

Ion Ratio Lower Upper

43 100

61 16.2 12.0 18.0

70 13.9 9.9 14.9



#38

Carbon Tetrachloride

Concen: 4.319 ug/l

RT: 8.07 min Scan# 1011

Delta R.T. -0.01 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

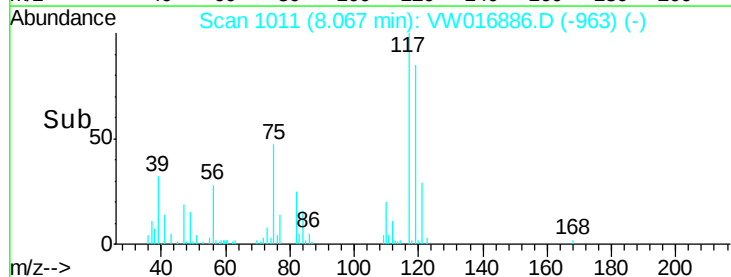
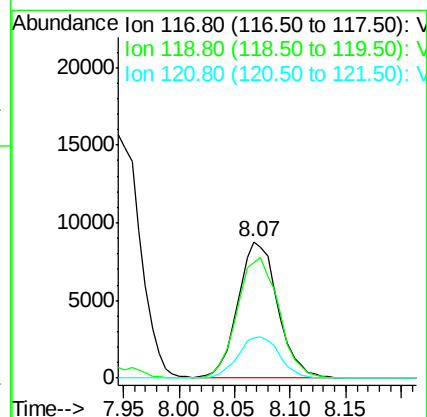
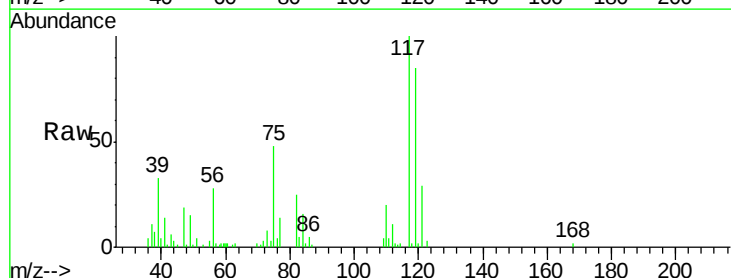
Tgt Ion: 117 Resp: 21846

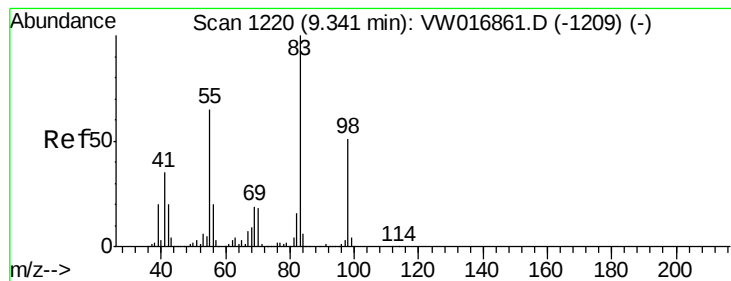
Ion Ratio Lower Upper

117 100

119 84.9 81.6 122.4

121 29.5 25.7 38.5





#39

Methvlcvclohexane

Concen: 4.258 ug/l

RT: 9.34 min Scan# 1220

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

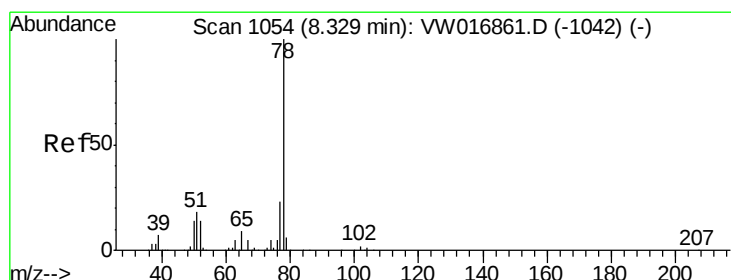
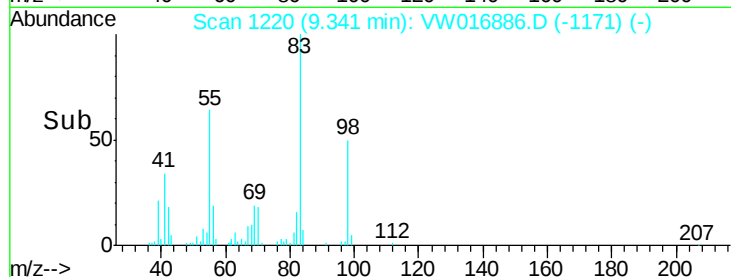
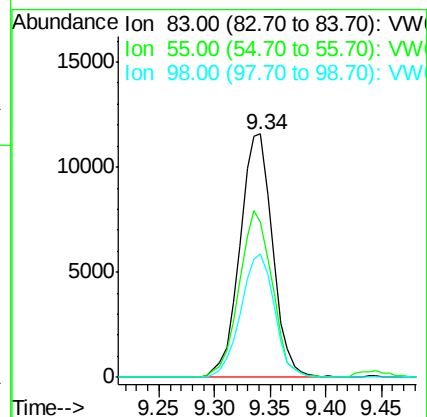
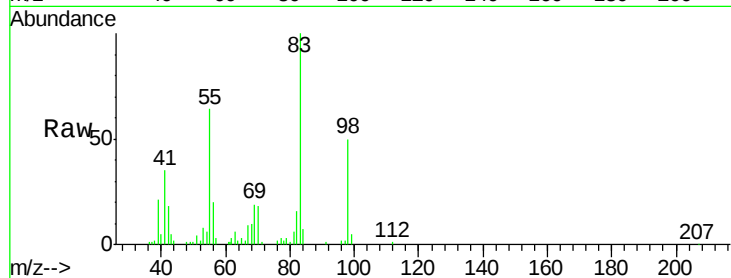
Tot Ion: 83 Resp: 23624

Ion Ratio Lower Upper

83 100

55 64.0 51.7 77.5

98 50.4 41.0 61.4



#40

Benzene

Concen: 4.585 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VW016886.D

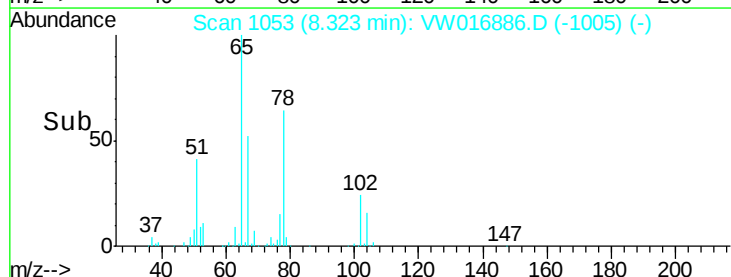
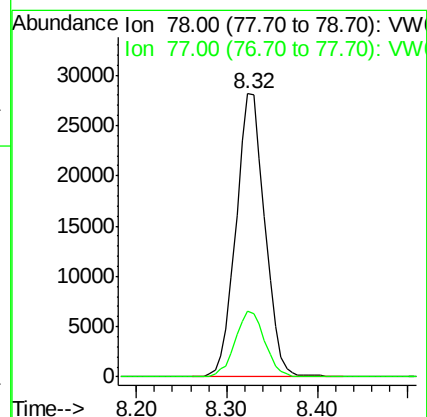
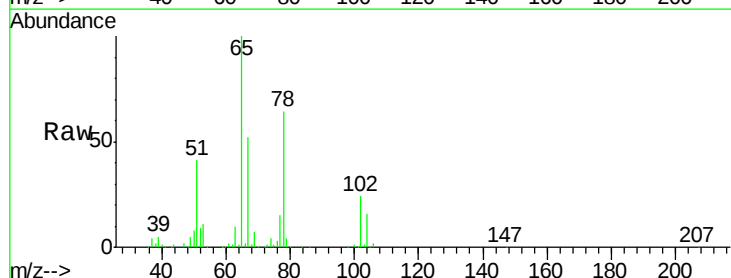
Acq: 12 Oct 2020 17:01

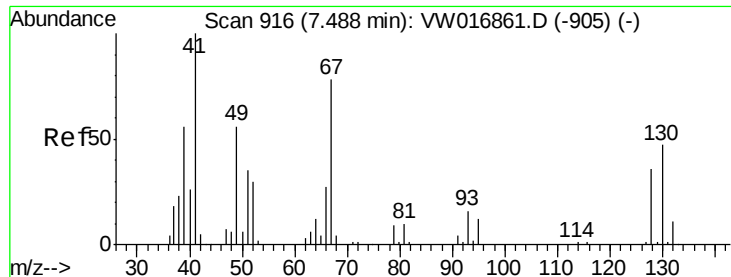
Tgt Ion: 78 Resp: 62155

Ion Ratio Lower Upper

78 100

77 23.2 18.5 27.7

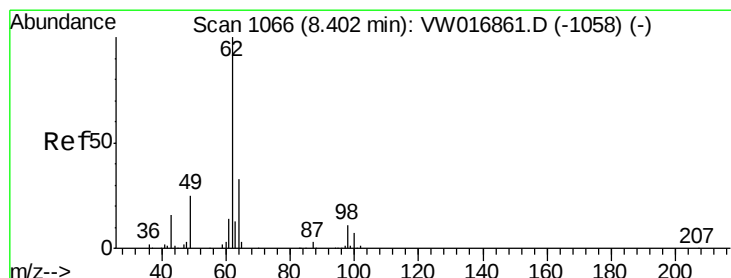
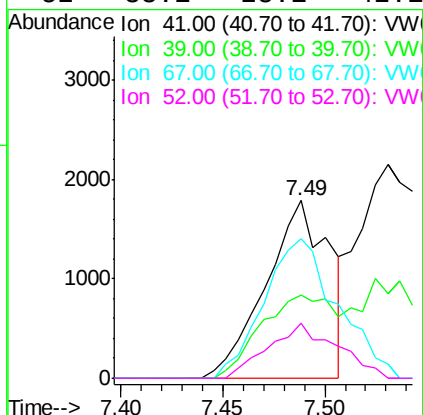
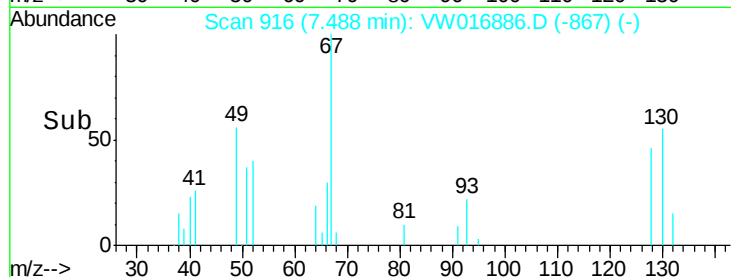
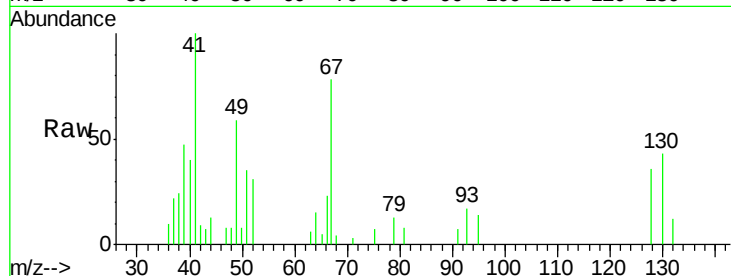




#41
Methacrylonitrile
Concen: 4.119 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

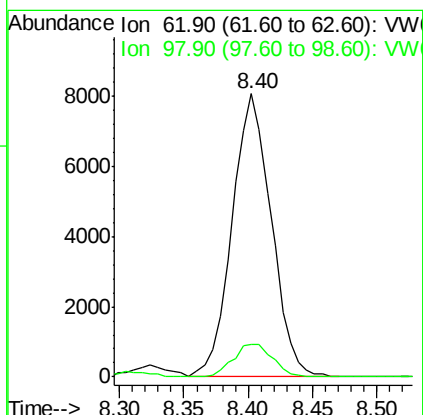
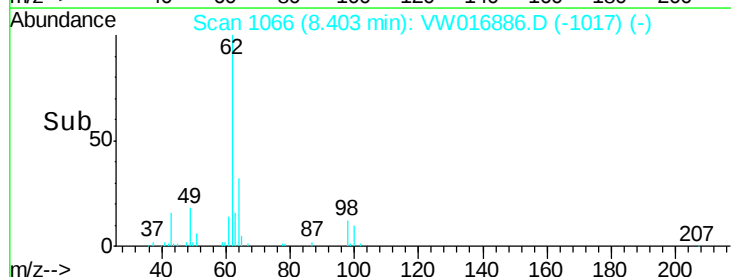
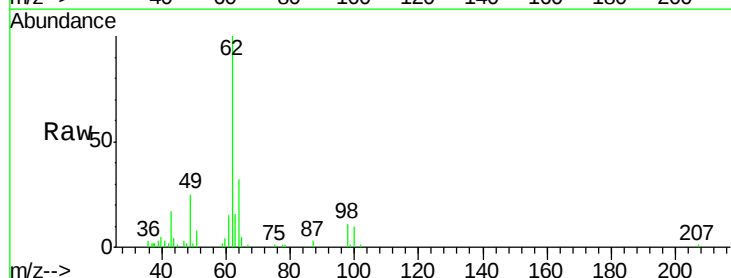
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

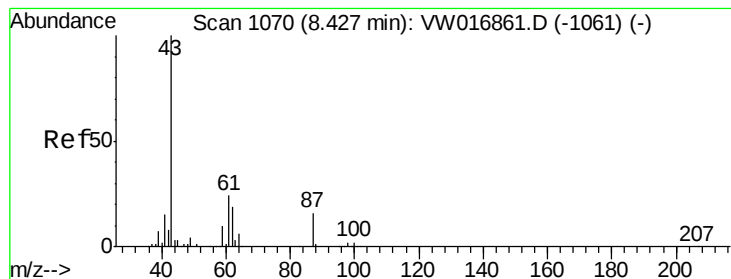
Tot Ion:	41	Resp:	3880
Ion	Ratio	Lower	Upper
41	100		
39	53.9	47.0	70.6
67	90.7	68.6	102.8
52	33.1	28.1	42.1



#42
1,2-Dichloroethane
Concen: 4.595 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

Tgt Ion:	62	Resp:	17038
Ion	Ratio	Lower	Upper
62	100		
98	11.7	0.0	21.0





#43

Isopropyl Acetate

Concen: 4.561 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

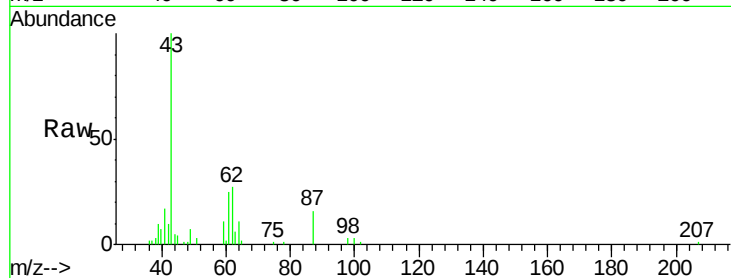
Tot Ion: 43 Resp: 13888

Ion Ratio Lower Upper

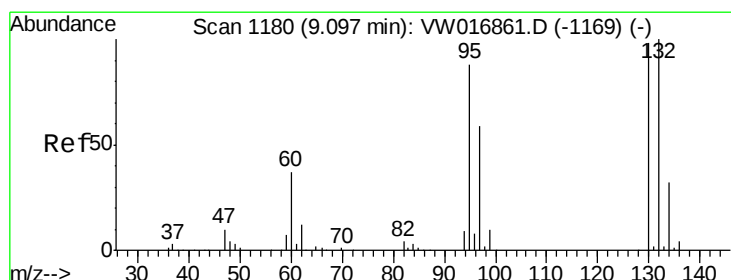
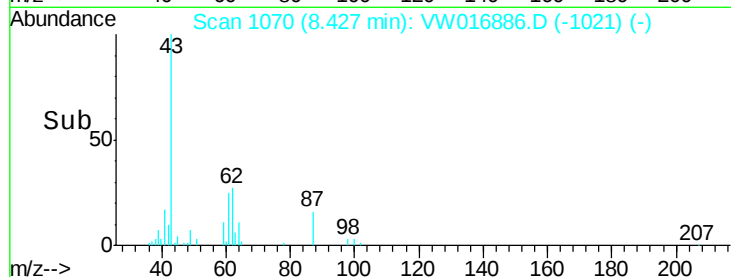
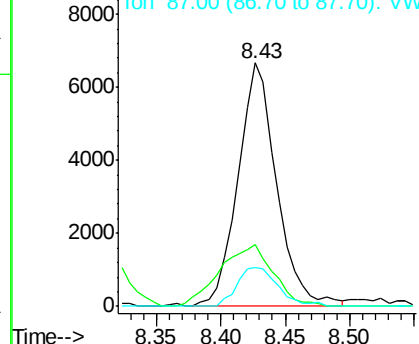
43 100

61 35.4 27.5 41.3

87 16.7 13.6 20.4



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 4.340 ug/l

RT: 9.10 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VW016886.D

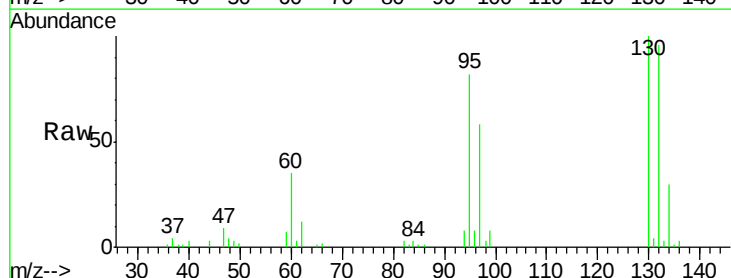
Acq: 12 Oct 2020 17:01

Tgt Ion: 130 Resp: 18212

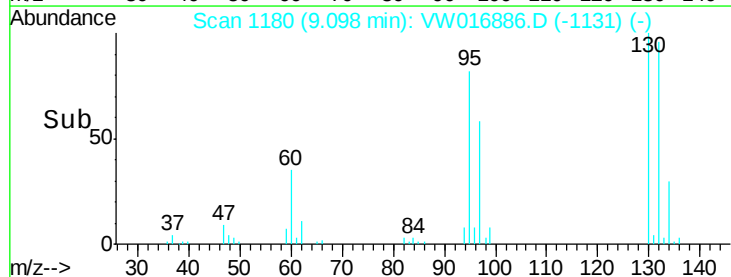
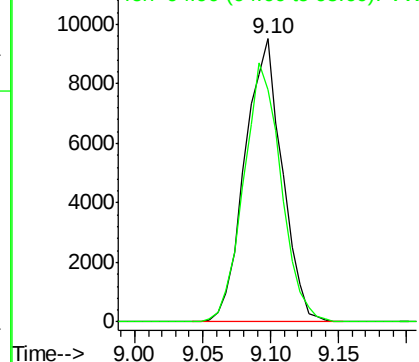
Ion Ratio Lower Upper

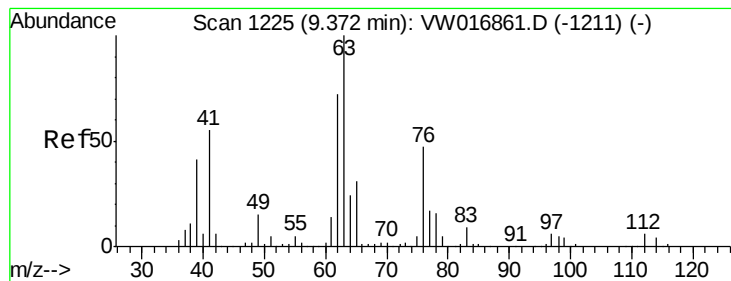
130 100

95 81.9 0.0 180.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VW





#45

1,2-Dichloropropane

Concen: 4.564 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

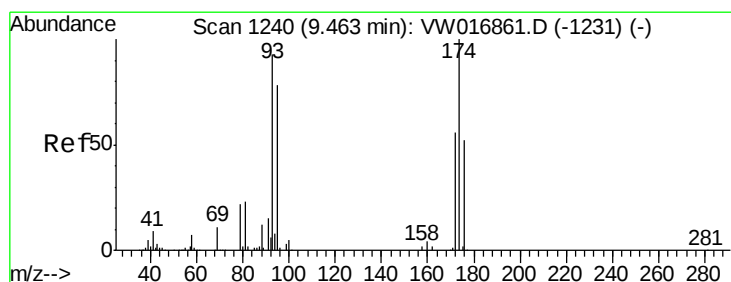
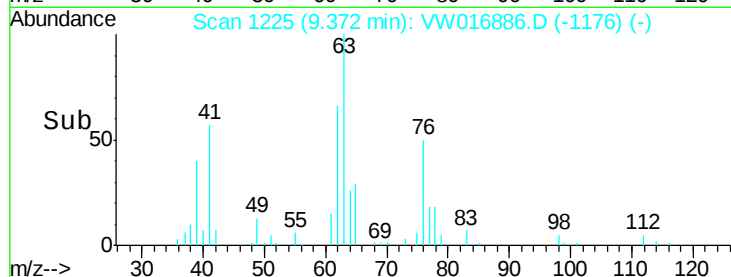
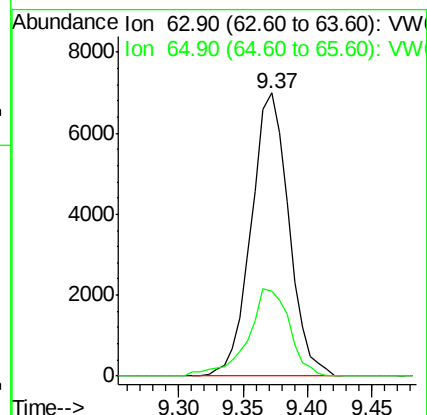
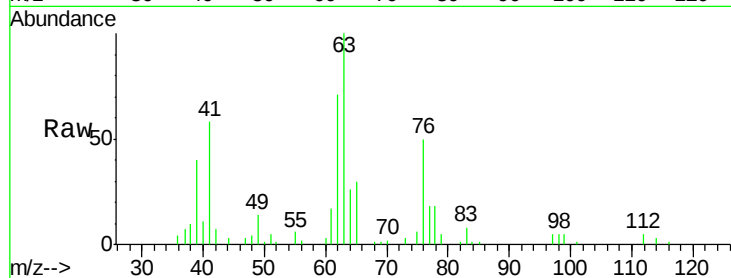
MDL-SOIL-03-QT4-2020

Tot Ion: 63 Resp: 14109

Ion Ratio Lower Upper

63 100

65 29.8 25.1 37.7



#46

Dibromomethane

Concen: 4.464 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

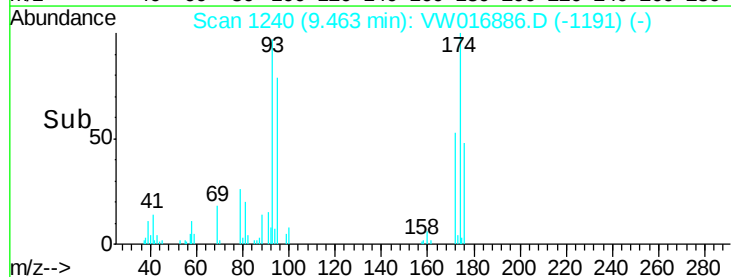
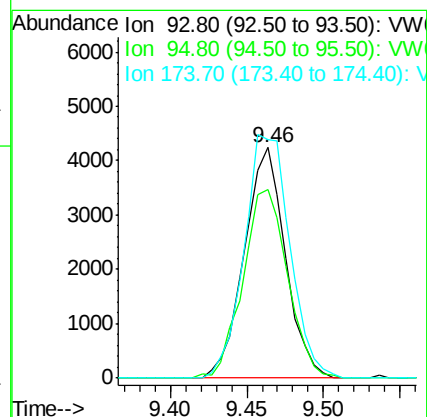
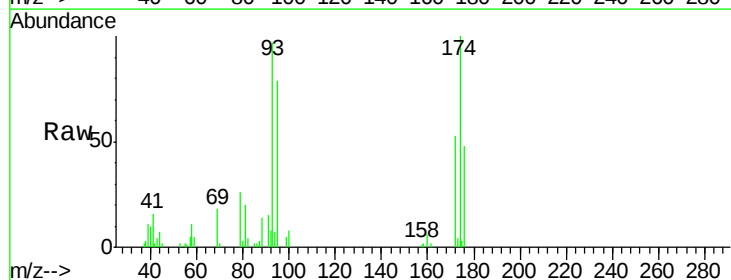
Tgt Ion: 93 Resp: 7894

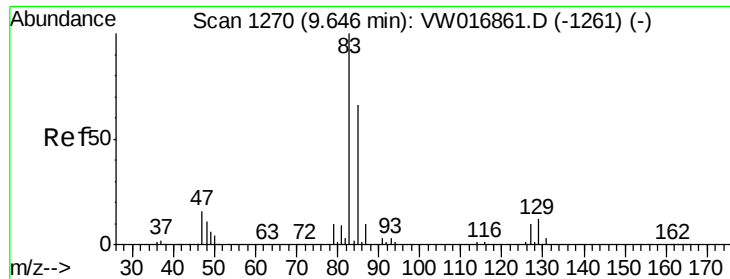
Ion Ratio Lower Upper

93 100

95 89.0 66.5 99.7

174 118.1 91.0 136.6





#47

Bromodichloromethane

Concen: 4.447 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

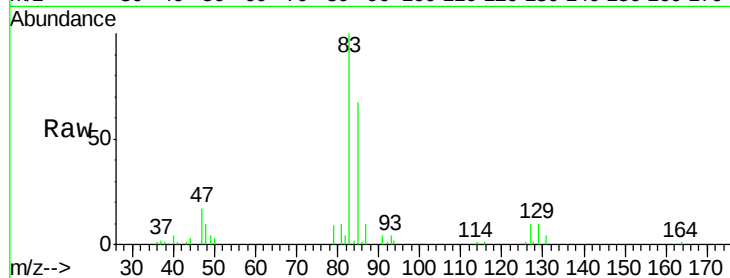
Tot Ion: 83 Resp: 19553

Ion Ratio Lower Upper

83 100

85 67.0 52.7 79.1

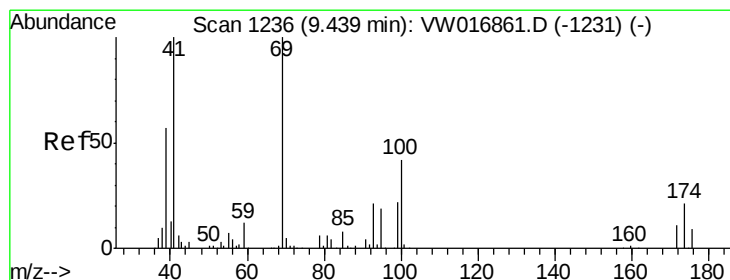
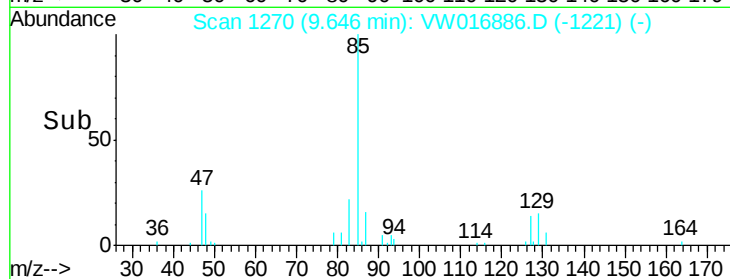
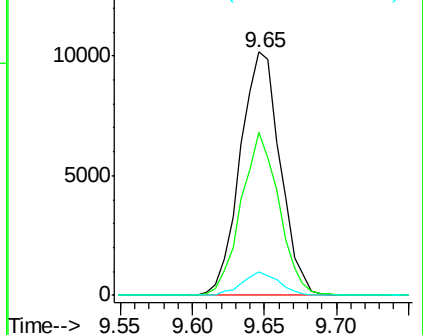
127 9.6 7.8 11.6



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 4.377 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

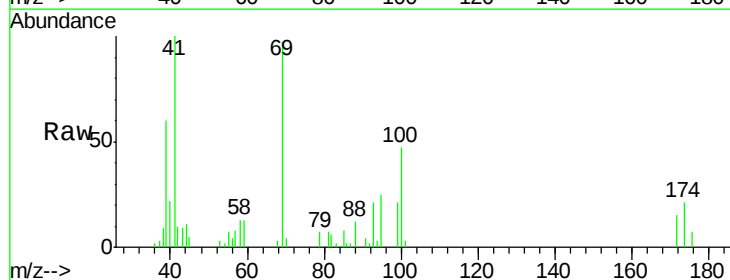
Tgt Ion: 41 Resp: 6142

Ion Ratio Lower Upper

41 100

69 107.4 83.5 125.3

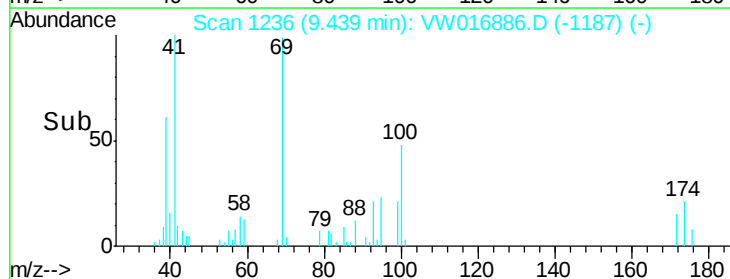
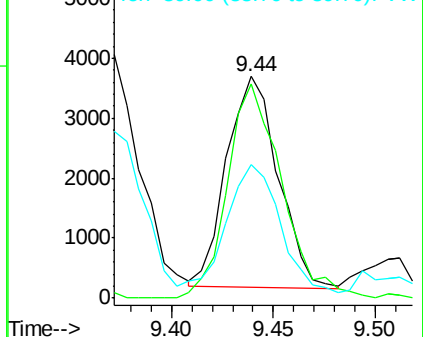
39 70.9 50.9 76.3

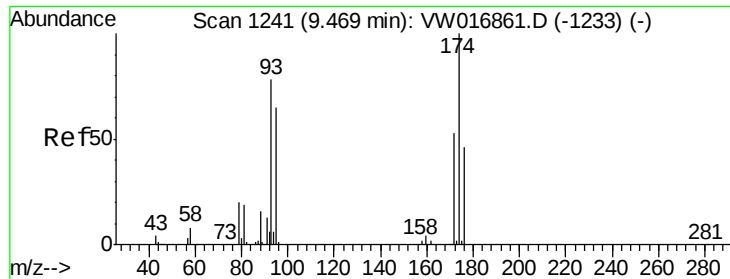


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

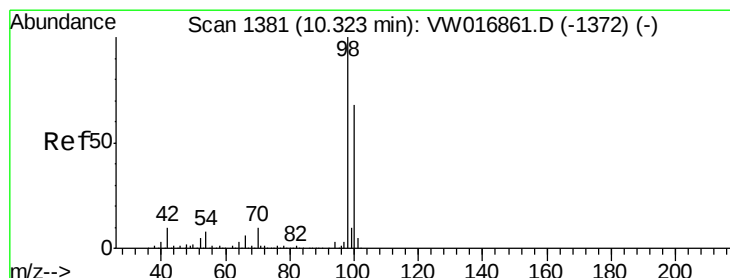
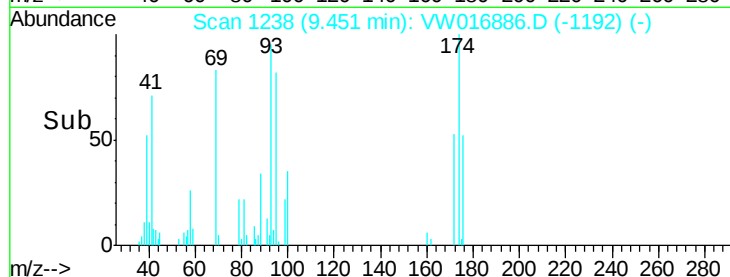
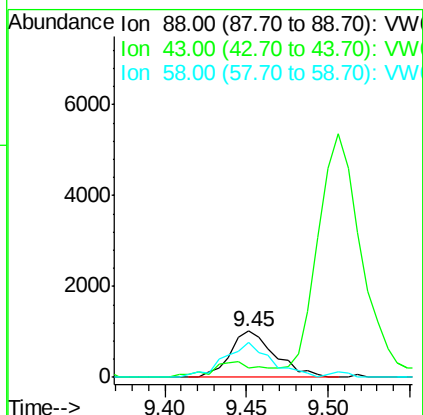
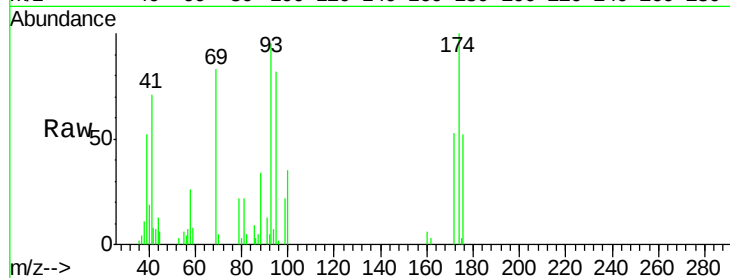




#49
1,4-Dioxane
Concen: 95.581 ug/l
RT: 9.45 min Scan# 1238
Delta R.T. -0.02 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

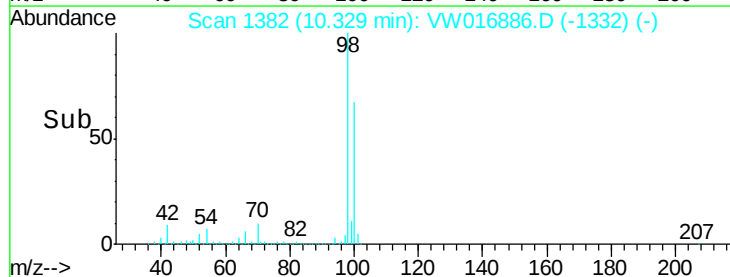
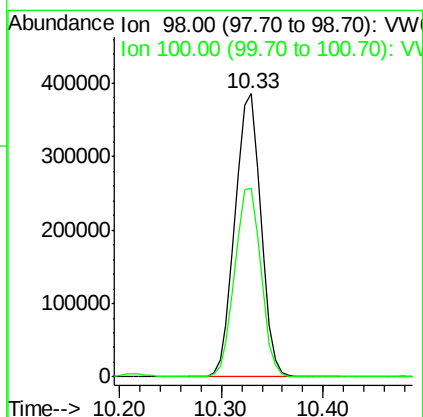
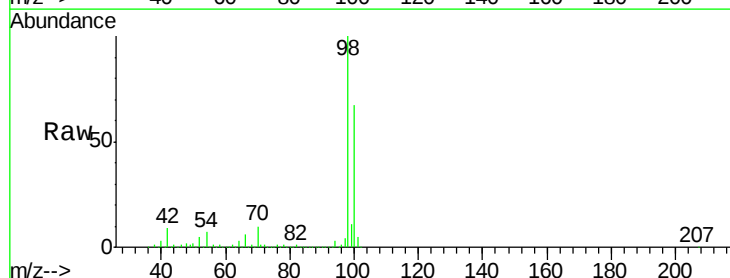
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

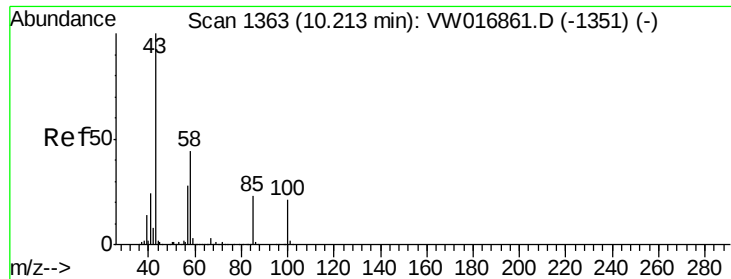
Tot Ion: 88 Resp: 1944
Ion Ratio Lower Upper
88 100
43 36.0 0.0 0.0#
58 80.2 54.0 81.0



#50
Toluene-d8
Concen: 52.440 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

Tgt Ion: 98 Resp: 678250
Ion Ratio Lower Upper
98 100
100 67.5 53.3 79.9





#51

4-Methyl-2-Pentanone

Concen: 23.955 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

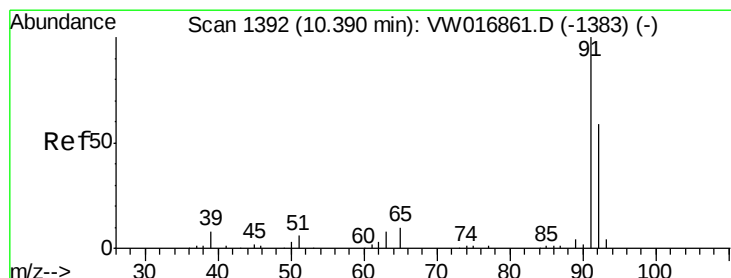
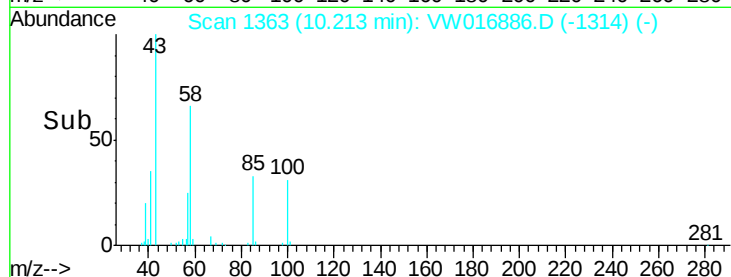
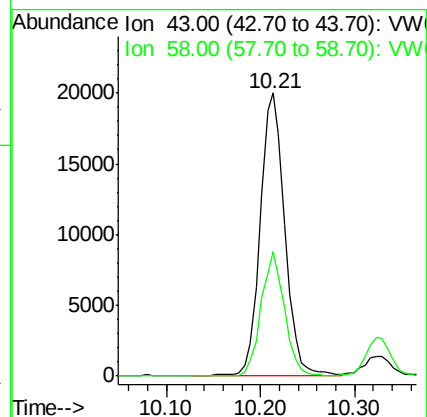
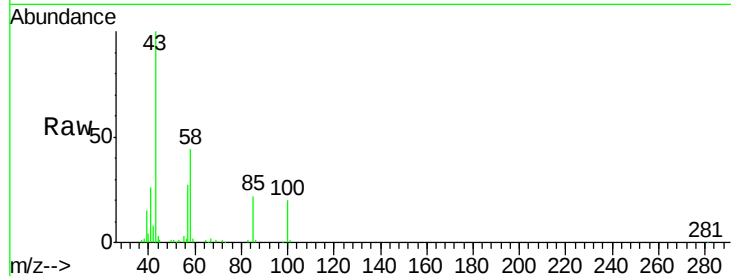
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 36903

Ion Ratio Lower Upper

43 100

58 42.0 34.7 52.1



#52

Toluene

Concen: 4.506 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW016886.D

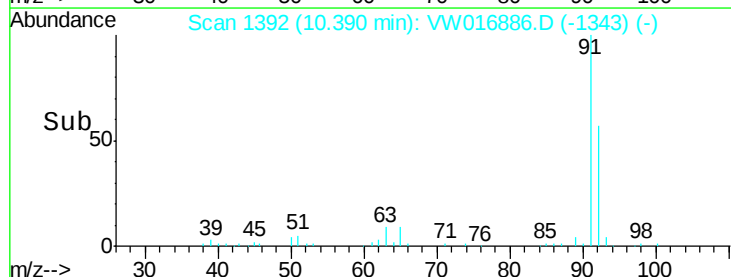
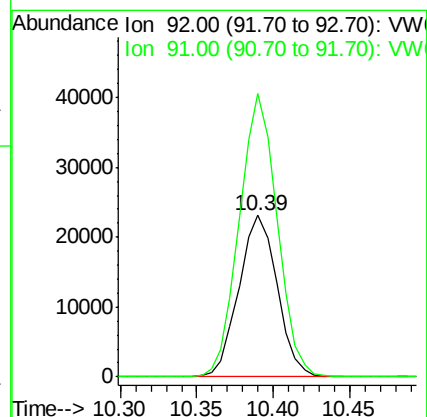
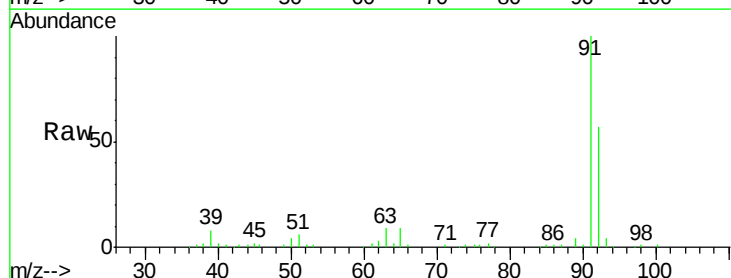
Acq: 12 Oct 2020 17:01

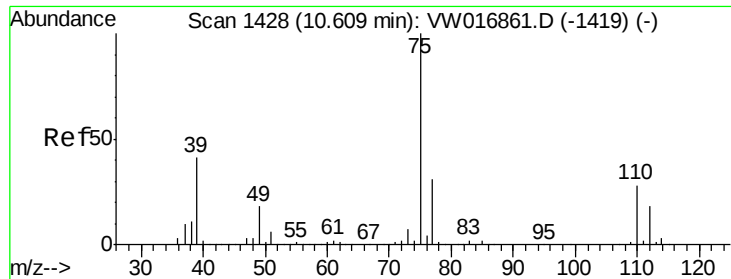
Tgt Ion: 92 Resp: 40378

Ion Ratio Lower Upper

92 100

91 173.1 134.7 202.1

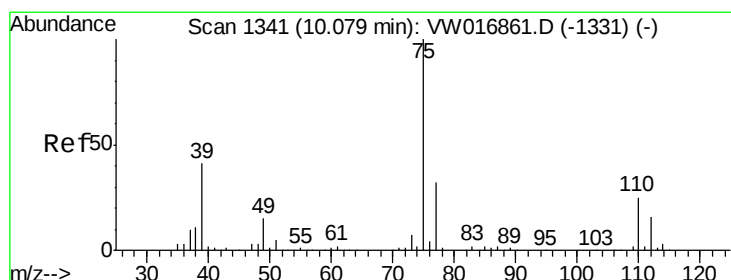
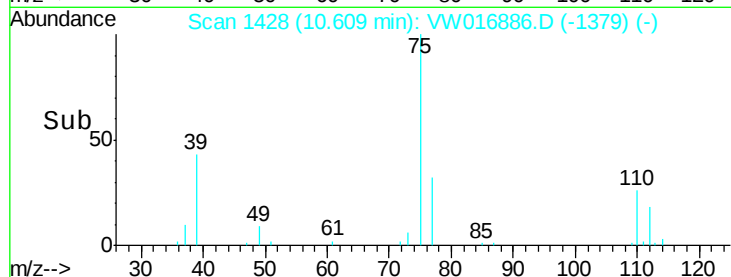
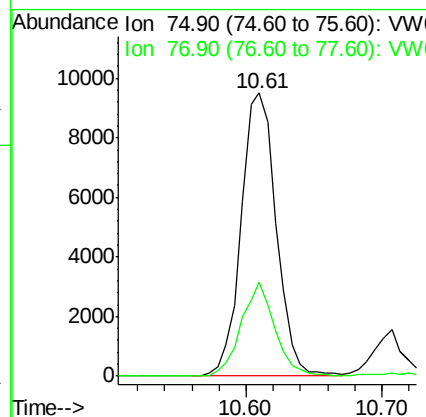
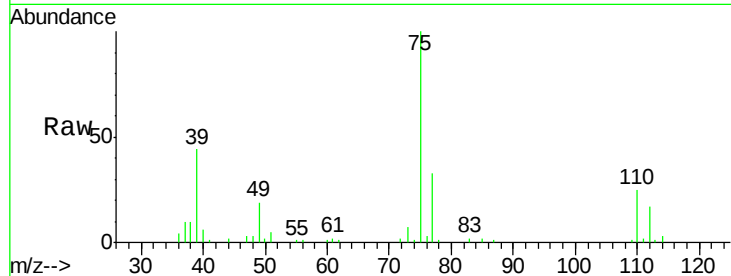




#53
 t-1,3-Dichloropropene
 Concen: 4.285 ug/l
 RT: 10.61 min Scan# 1428
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

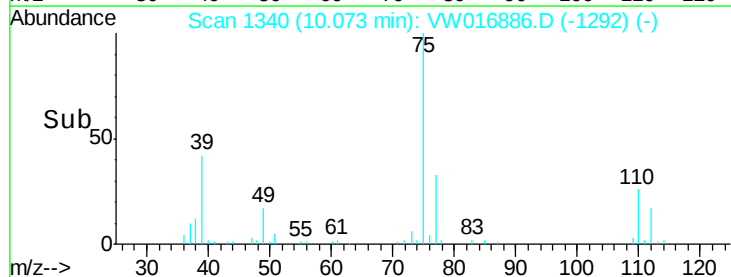
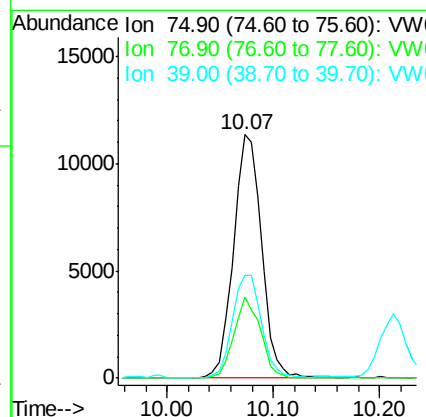
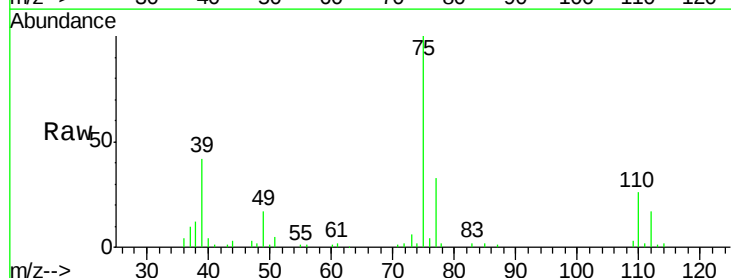
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

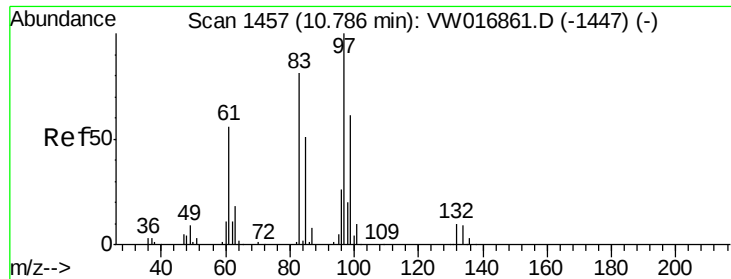
Tot Ion: 75 Resp: 17152
 Ion Ratio Lower Upper
 75 100
 77 33.0 24.8 37.2



#54
 cis-1,3-Dichloropropene
 Concen: 4.305 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.01 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

Tgt Ion: 75 Resp: 21047
 Ion Ratio Lower Upper
 75 100
 77 33.3 25.8 38.6
 39 42.4 32.9 49.3

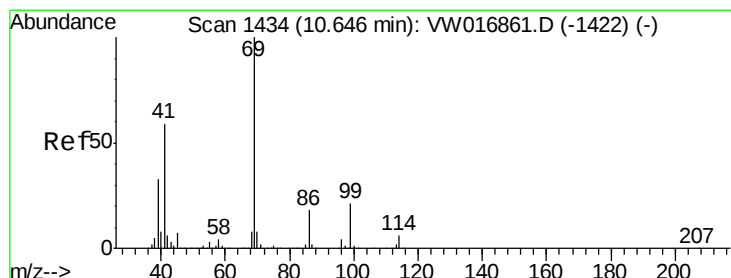
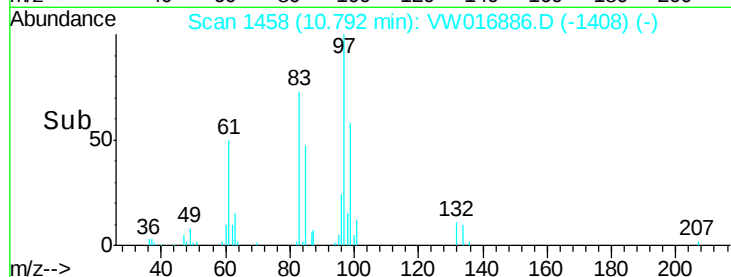
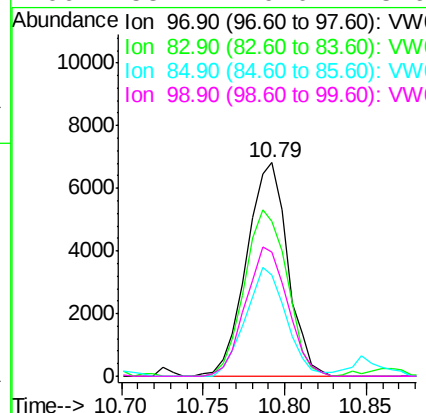
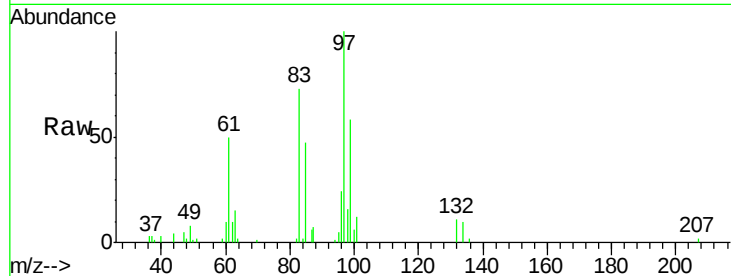




#55
 1,1,2-Trichloroethane
 Concen: 4.784 ug/l
 RT: 10.79 min Scan# 1458
 Delta R.T. 0.01 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

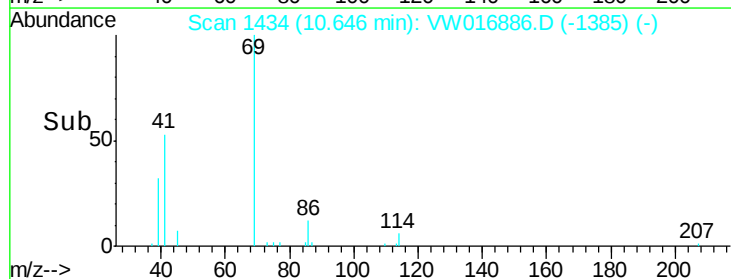
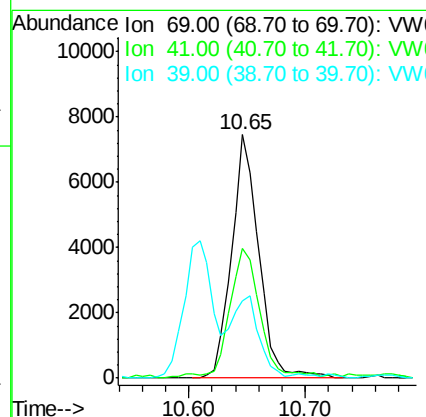
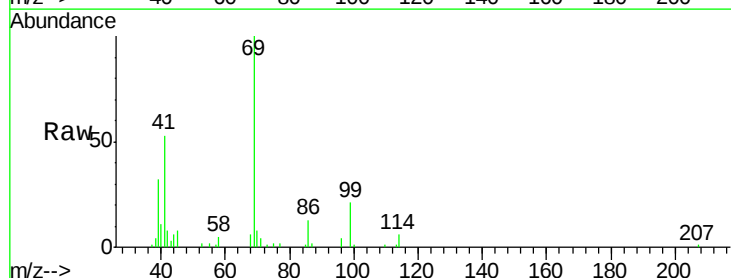
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

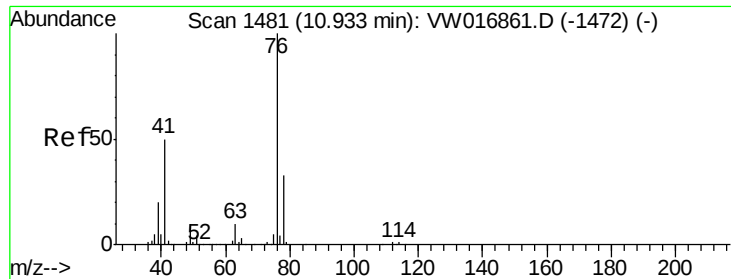
Tot Ion:	97	Resp:	12040
Ion	Ratio	Lower	Upper
97	100		
83	72.6	64.6	97.0
85	47.1	40.6	61.0
99	58.2	49.0	73.6



#56
 Ethyl methacrylate
 Concen: 4.401 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

Tgt Ion:	69	Resp:	12049
Ion	Ratio	Lower	Upper
69	100		
41	60.6	46.3	69.5
39	32.8	25.9	38.9

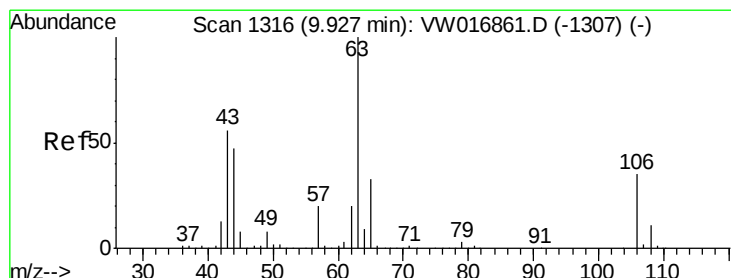
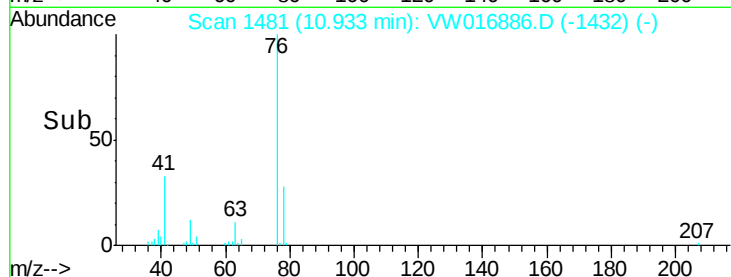
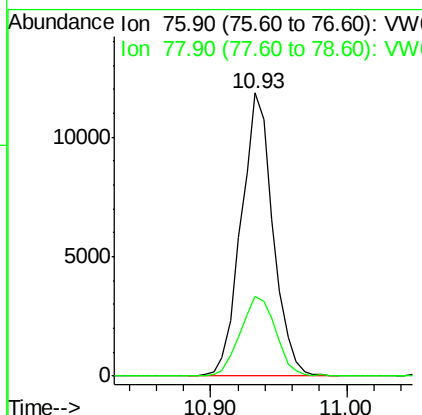
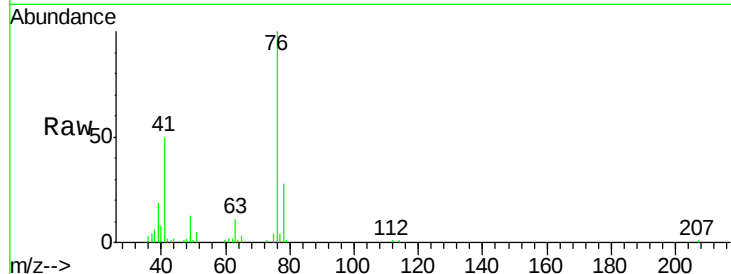




#57
 1,3-Dichloropropane
 Concen: 4.661 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

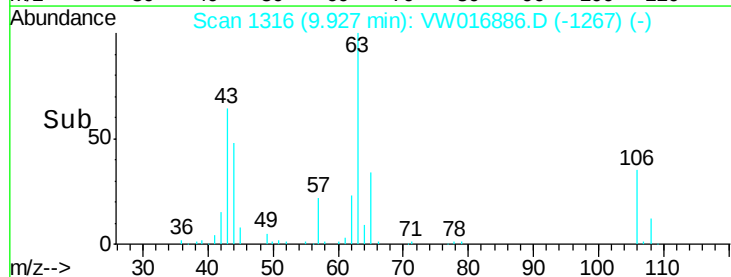
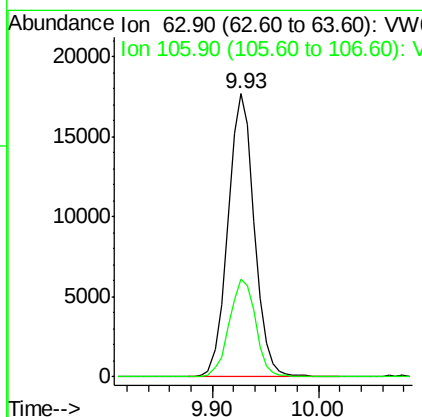
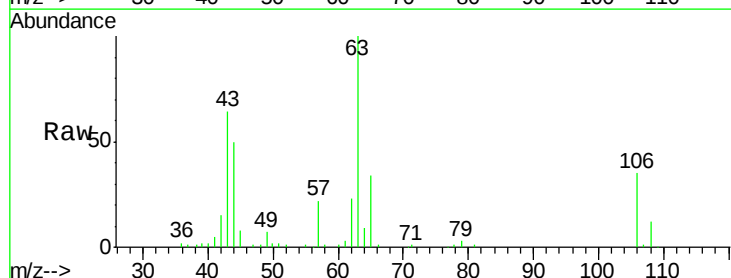
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

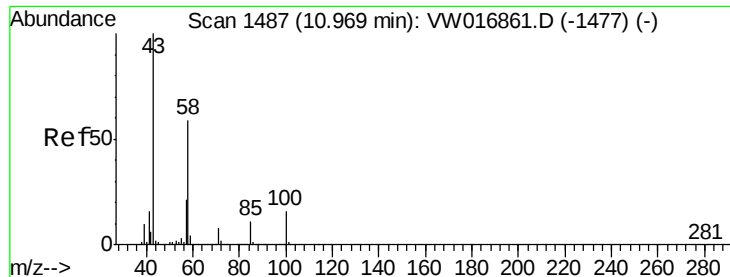
Tot Ion: 76 Resp: 19409
 Ion Ratio Lower Upper
 76 100
 78 31.1 26.0 39.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 20.229 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

Tgt Ion: 63 Resp: 30692
 Ion Ratio Lower Upper
 63 100
 106 34.5 27.0 40.4

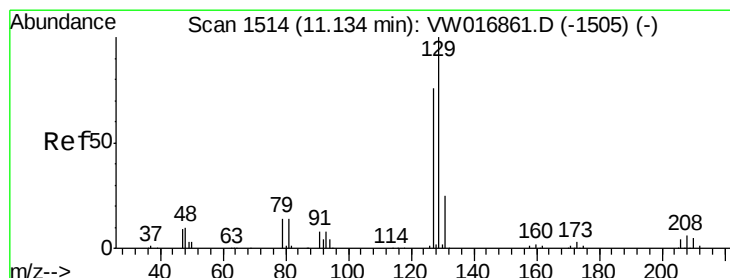
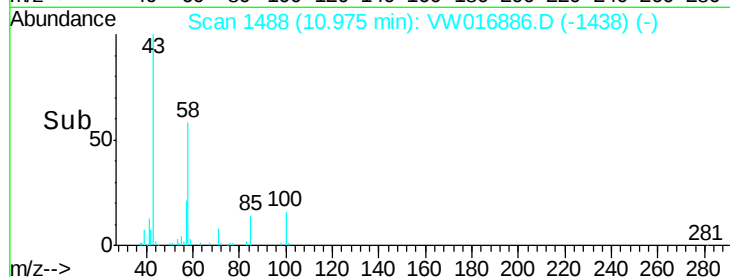
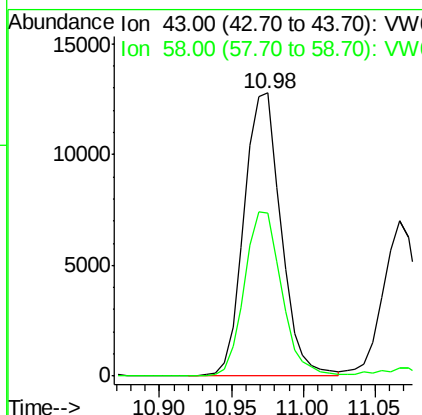
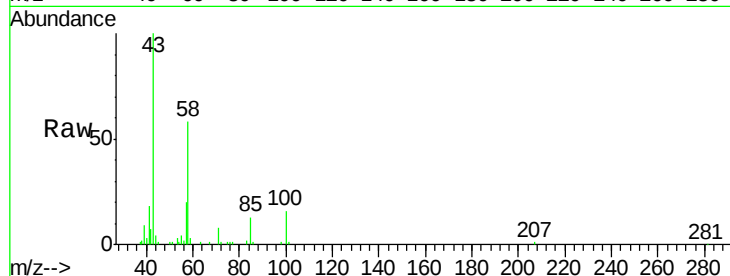




#59
2-Hexanone
Concen: 22.338 ug/l
RT: 10.98 min Scan# 1488
Delta R.T. 0.01 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

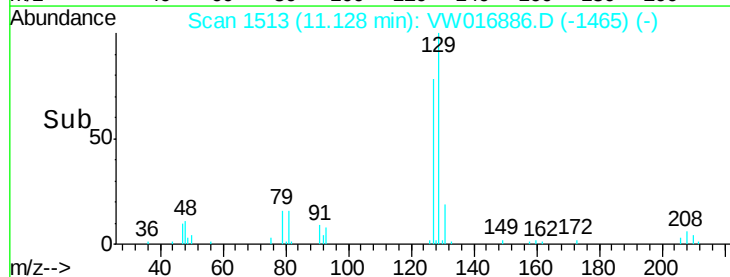
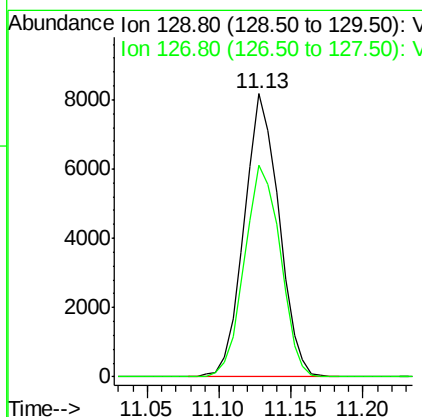
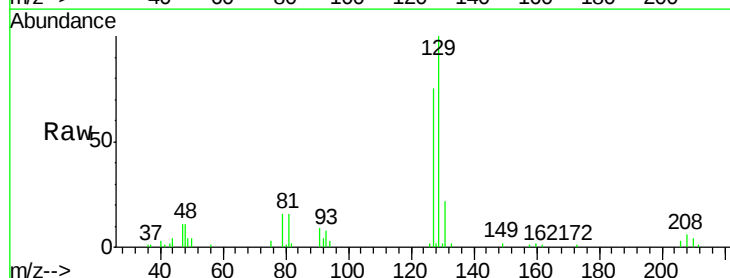
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

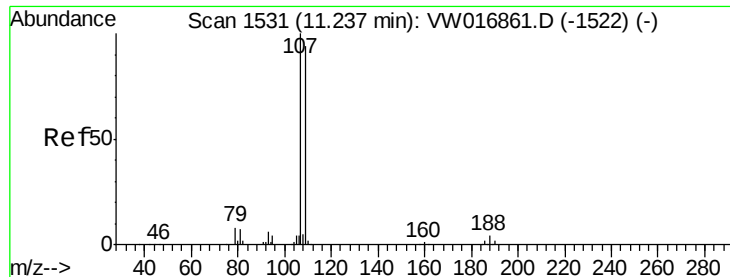
Tot Ion: 43 Resp: 22768
Ion Ratio Lower Upper
43 100
58 58.5 29.5 88.5



#60
Dibromochloromethane
Concen: 4.426 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.01 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

Tgt Ion: 129 Resp: 13663
Ion Ratio Lower Upper
129 100
127 76.9 38.9 116.6

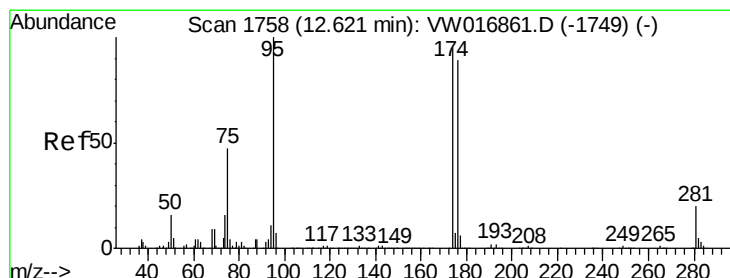
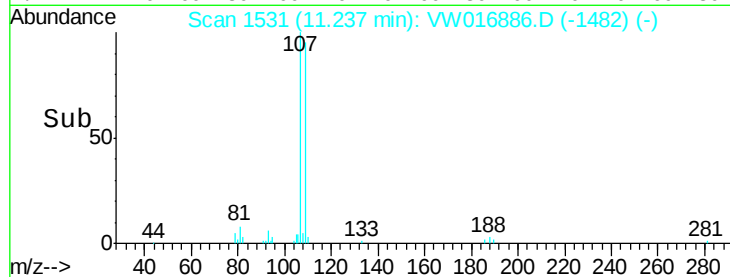
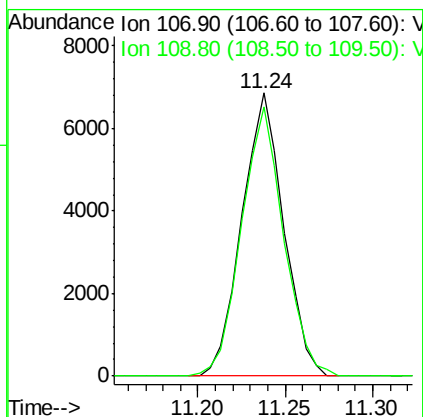
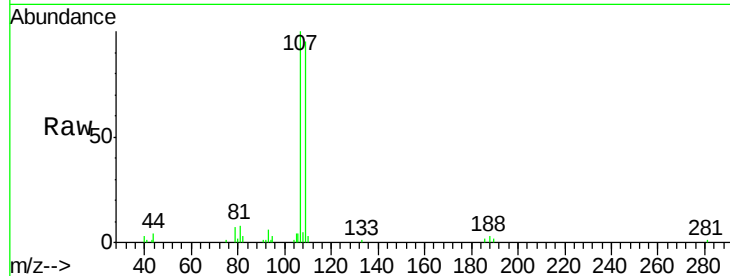




#61
 1,2-Dibromoethane
 Concen: 4.567 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

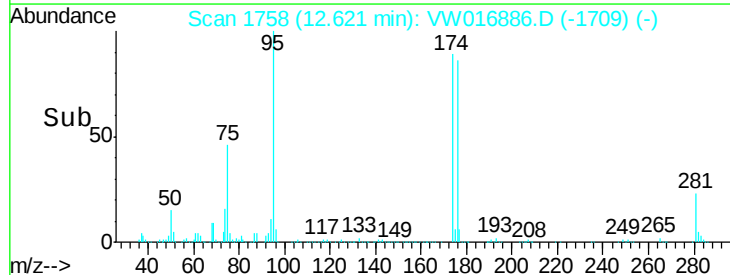
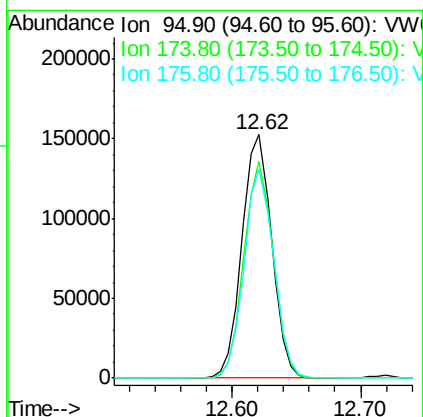
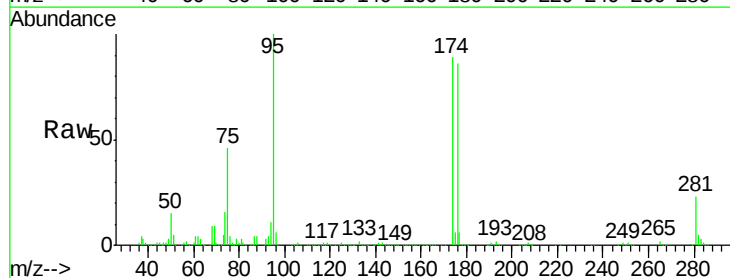
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

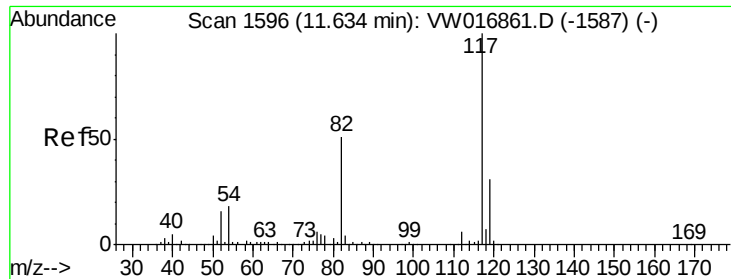
Tot Ion: 107 Resp: 11383
 Ion Ratio Lower Upper
 107 100
 109 96.1 74.7 112.1



#62
 4-Bromofluorobenzene
 Concen: 54.457 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

Tgt Ion: 95 Resp: 242884
 Ion Ratio Lower Upper
 95 100
 174 88.2 0.0 180.6
 176 85.4 0.0 177.6

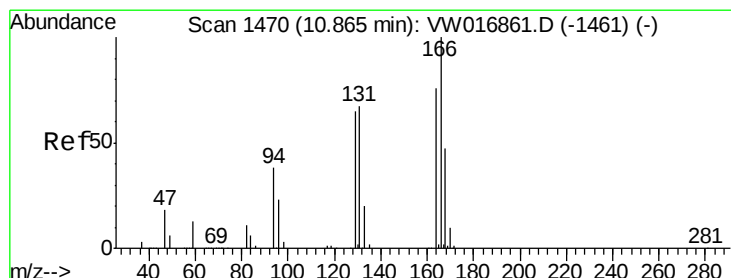
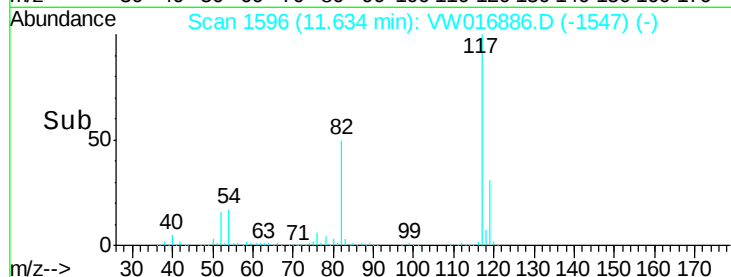
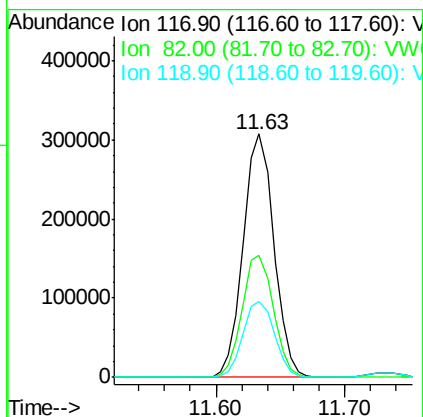
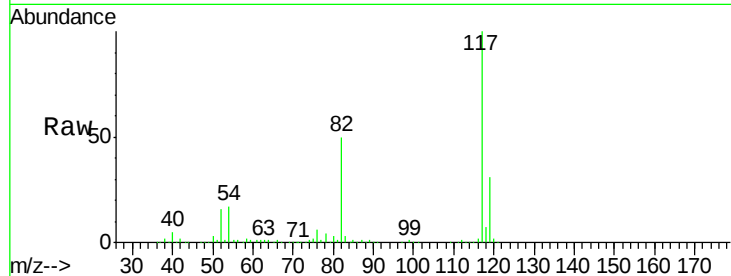




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

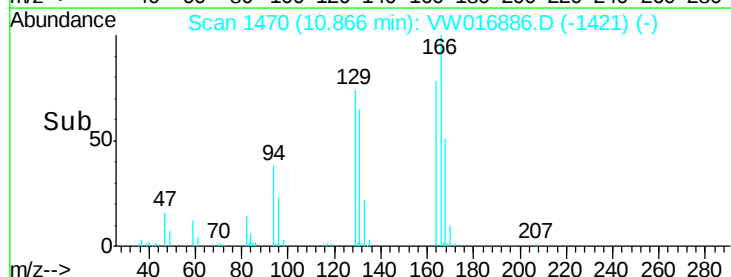
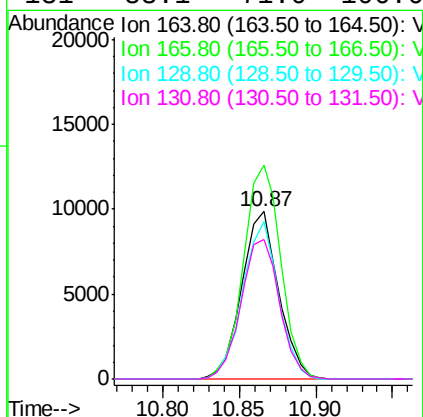
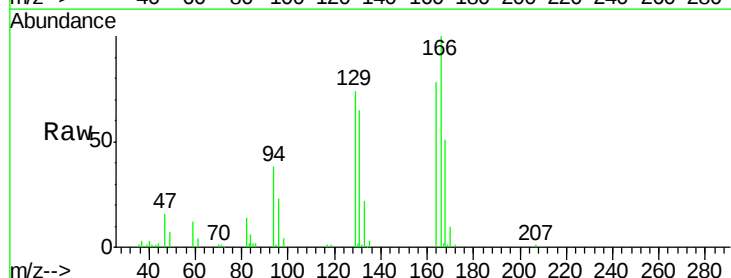
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

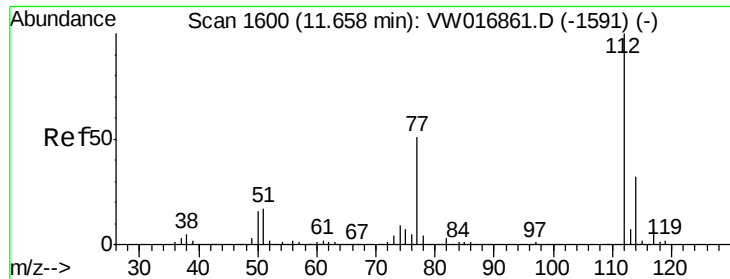
Tot Ion:117 Resp: 505538
Ion Ratio Lower Upper
117 100
82 49.9 40.7 61.1
119 31.4 25.0 37.4



#64
Tetrachloroethene
Concen: 4.592 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

Tgt Ion:164 Resp: 16539
Ion Ratio Lower Upper
164 100
166 127.7 105.3 157.9
129 94.0 68.8 103.2
131 83.1 71.0 106.6

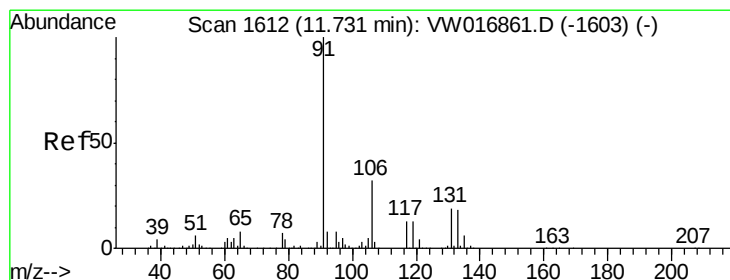
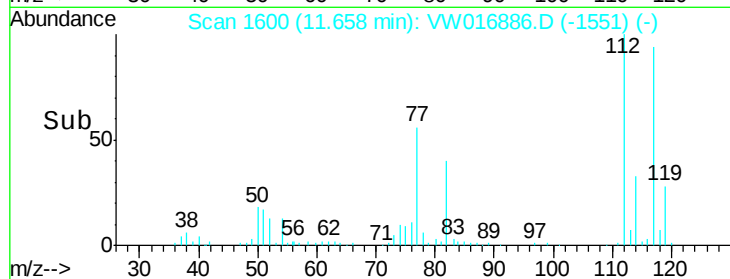
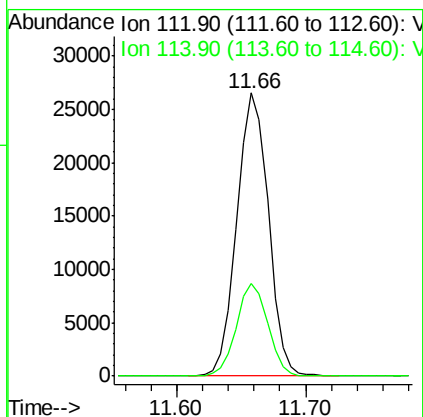
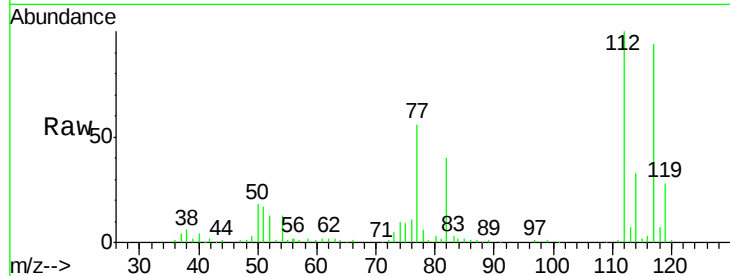




#65
Chlorobenzene
Concen: 4.546 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

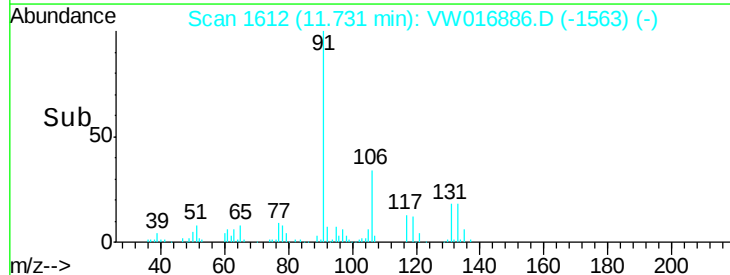
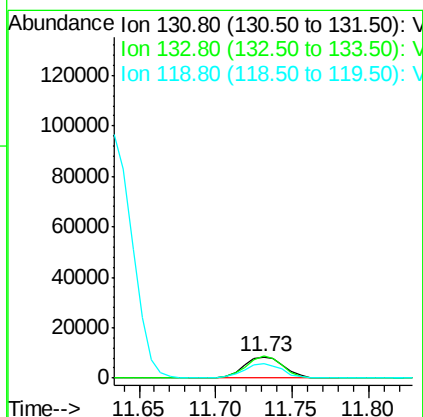
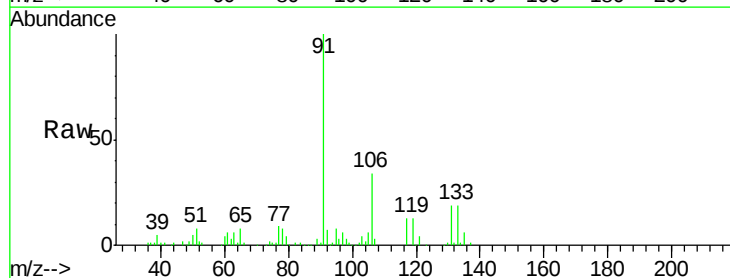
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

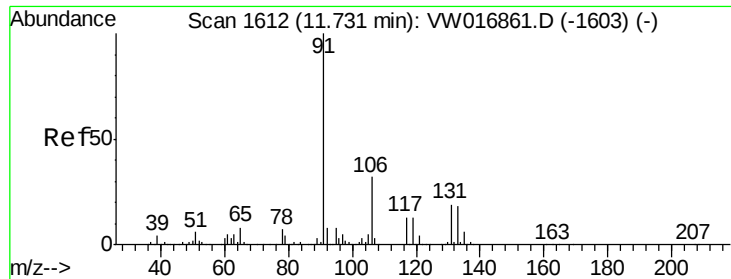
Tot Ion:112 Resp: 45078
Ion Ratio Lower Upper
112 100
114 32.9 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 4.304 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

Tgt Ion:131 Resp: 15094
Ion Ratio Lower Upper
131 100
133 96.5 48.1 144.3
119 67.1 32.5 97.4

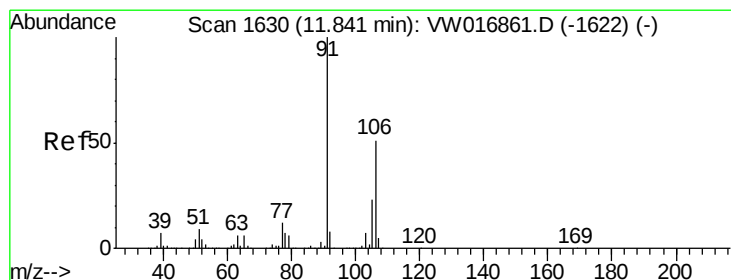
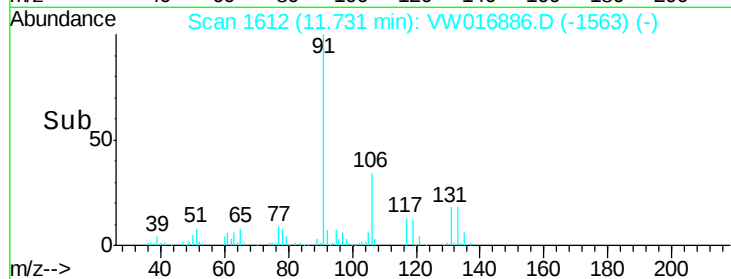
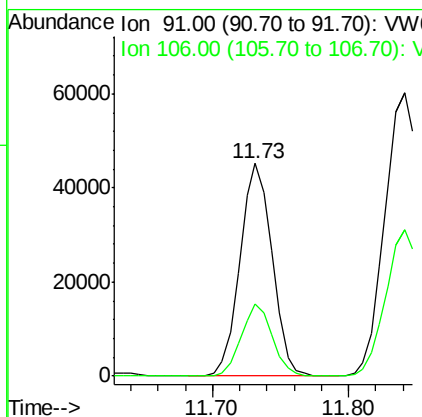
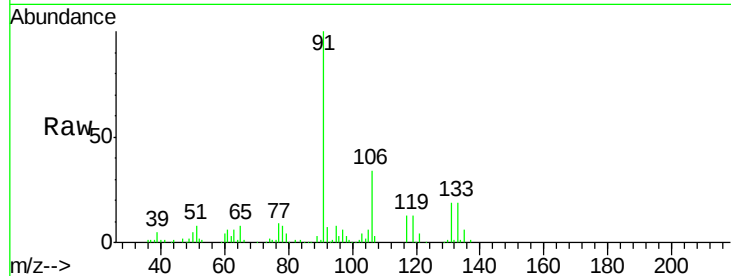




#67
Ethyl Benzene
Concen: 4.328 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

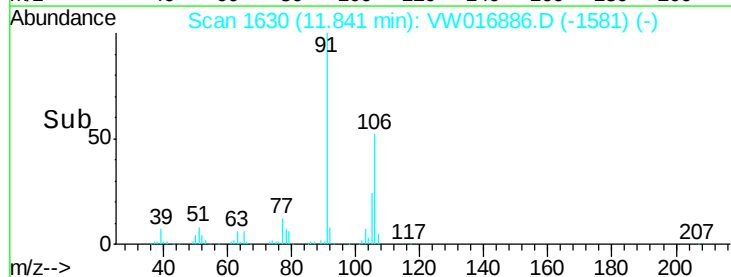
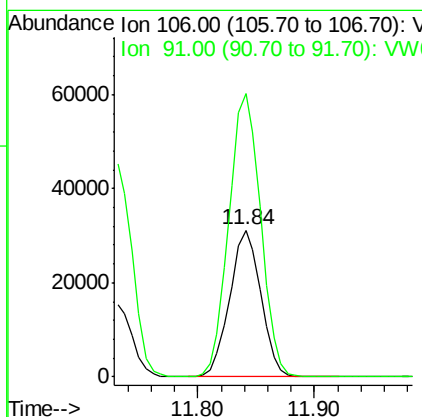
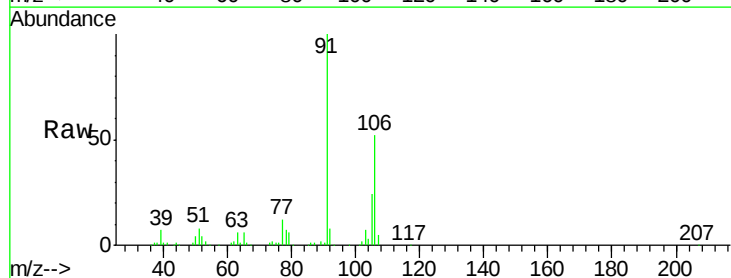
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

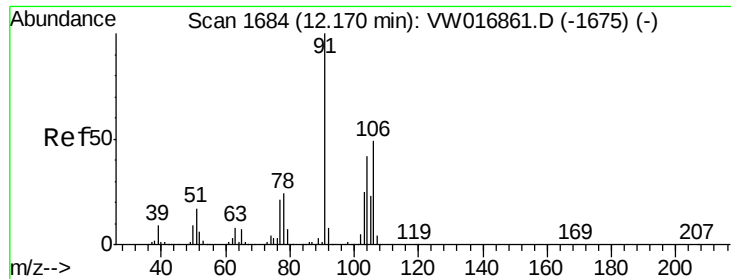
Tot Ion: 91 Resp: 74786
Ion Ratio Lower Upper
91 100
106 33.9 25.9 38.9



#68
m/p-Xylenes
Concen: 8.687 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

Tgt Ion: 106 Resp: 58380
Ion Ratio Lower Upper
106 100
91 196.2 157.4 236.0

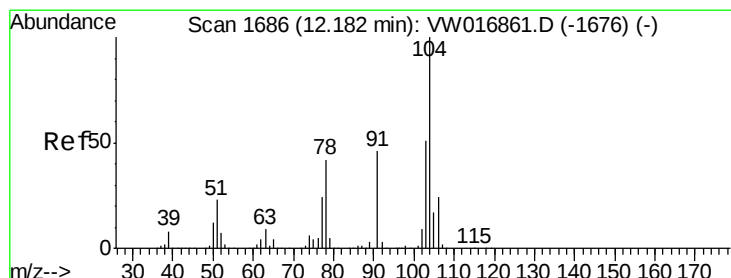
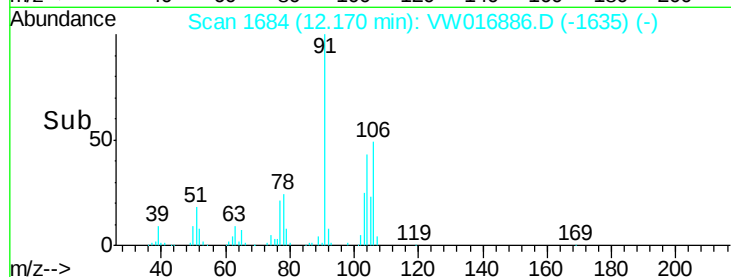
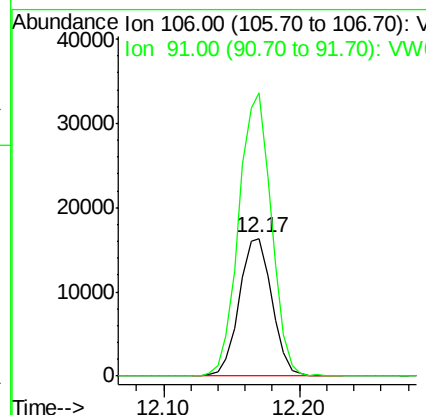
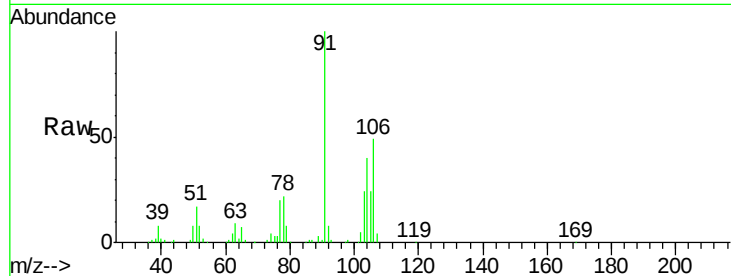




#69
o-Xylene
Concen: 4.439 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

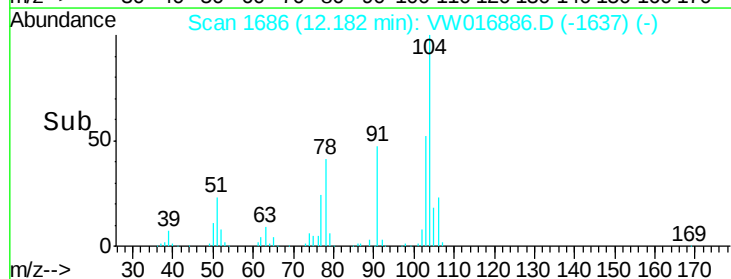
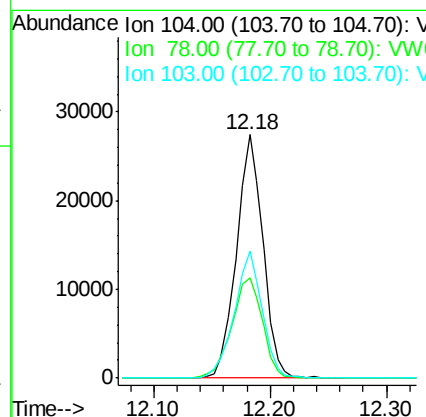
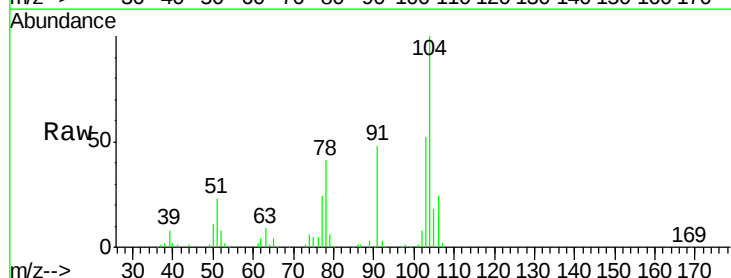
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

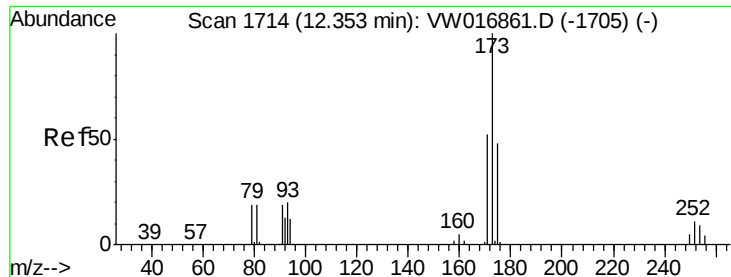
Tot Ion:106 Resp: 27377
Ion Ratio Lower Upper
106 100
91 205.0 103.6 310.9



#70
Styrene
Concen: 4.234 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

Tgt Ion:104 Resp: 43452
Ion Ratio Lower Upper
104 100
78 47.6 37.6 56.4
103 54.6 43.6 65.4





#71

Bromoform

Concen: 4.030 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

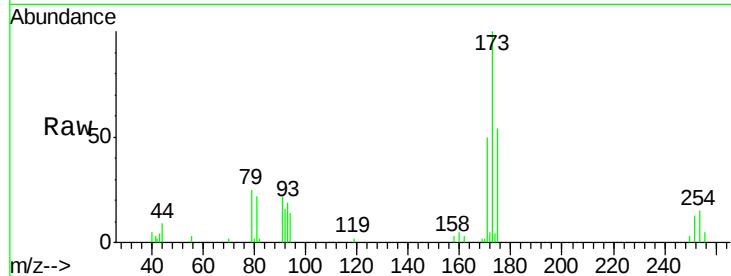
Tot Ion:173 Resp: 7094

Ion Ratio Lower Upper

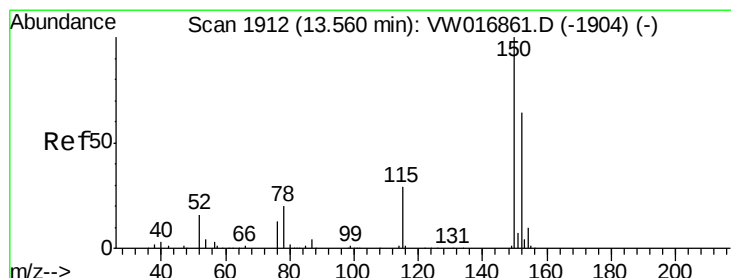
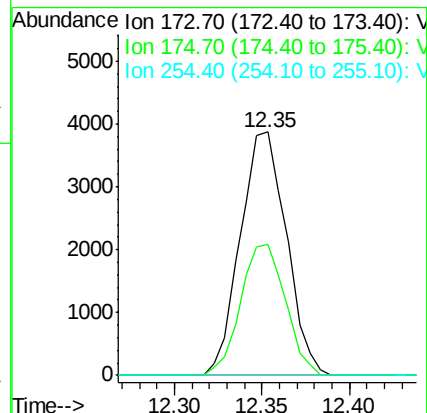
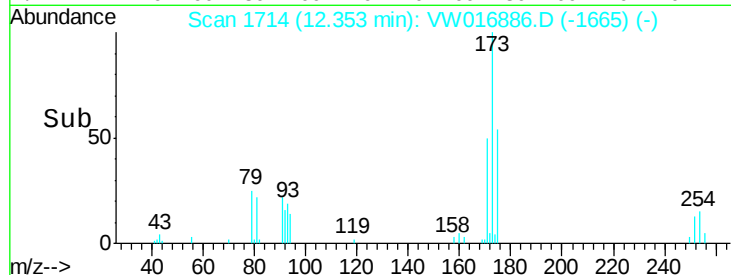
173 100

175 52.4 24.7 74.1

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

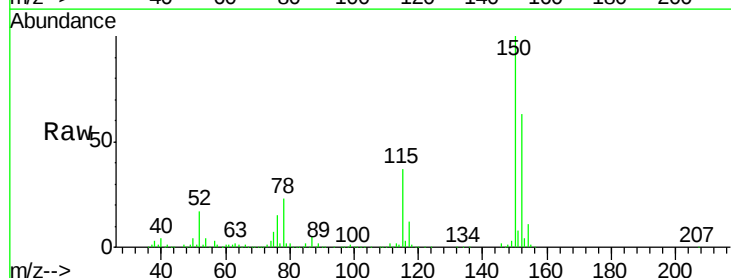
Tgt Ion:152 Resp: 254402

Ion Ratio Lower Upper

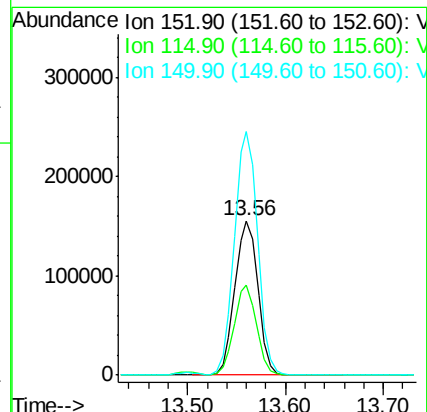
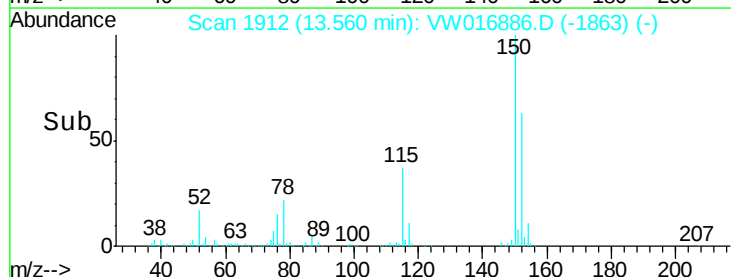
152 100

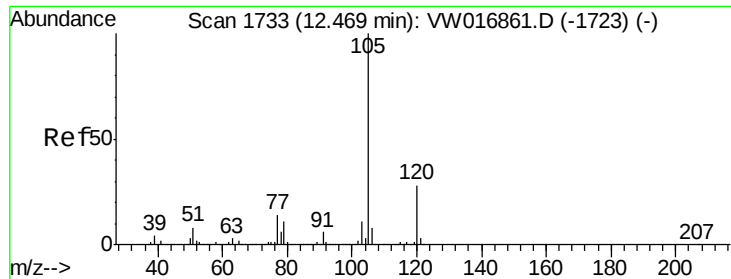
115 56.4 27.9 83.7

150 157.8 0.0 344.0



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





#73

Isopropylbenzene

Concen: 4.366 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

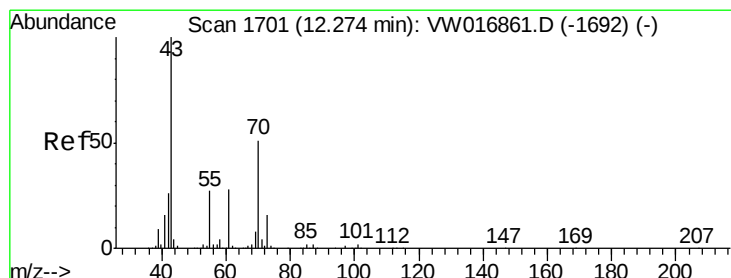
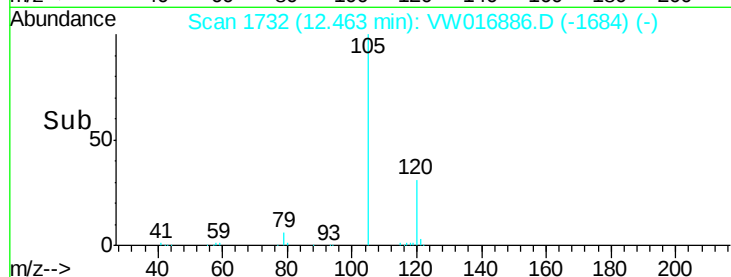
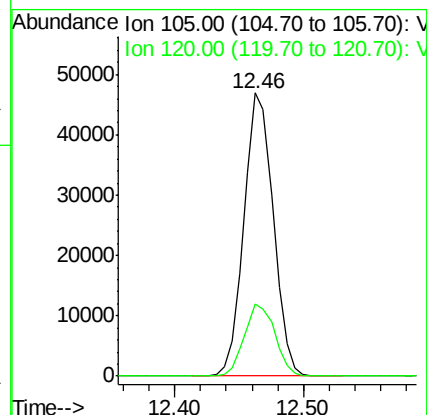
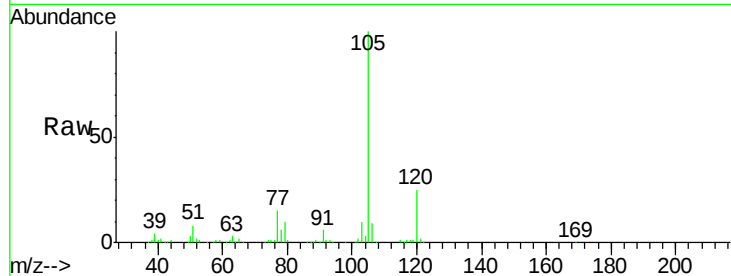
MDL-SOIL-03-QT4-2020

Tot Ion:105 Resp: 73825

Ion Ratio Lower Upper

105 100

120 26.3 13.6 40.7



#74

N-ethyl acetate

Concen: 4.347 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Tgt Ion: 43 Resp: 11806

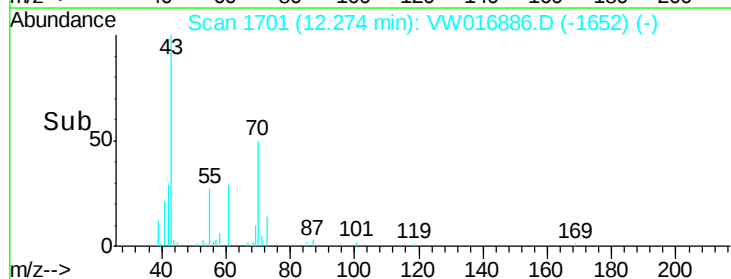
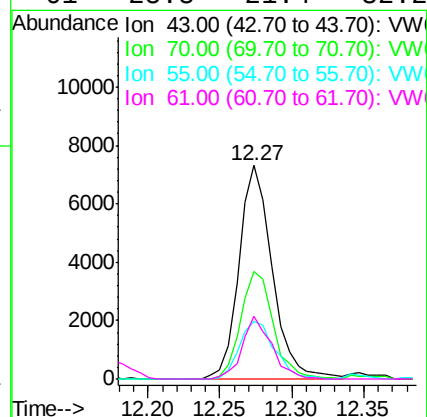
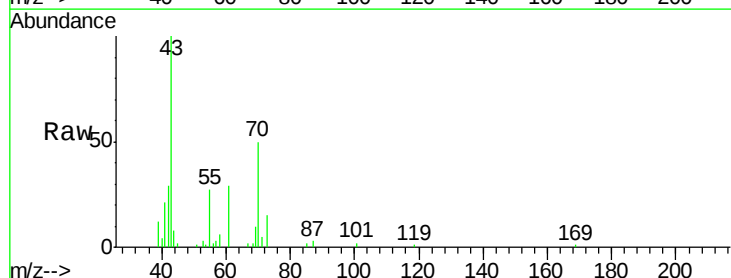
Ion Ratio Lower Upper

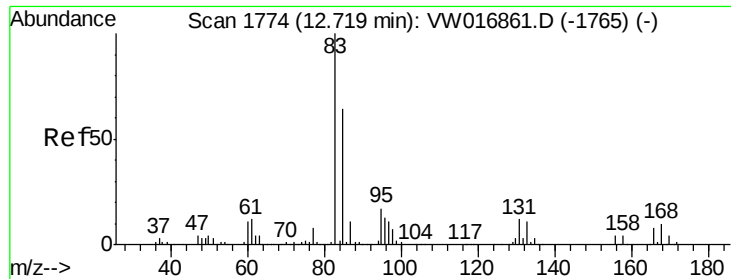
43 100

70 49.3 40.2 60.4

55 28.7 21.4 32.0

61 25.8 21.4 32.2

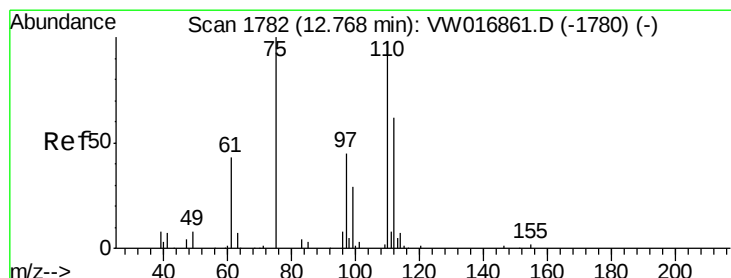
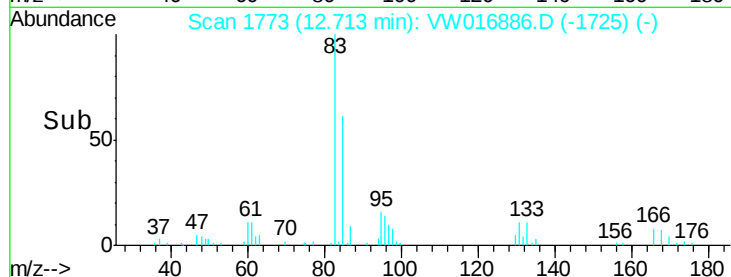
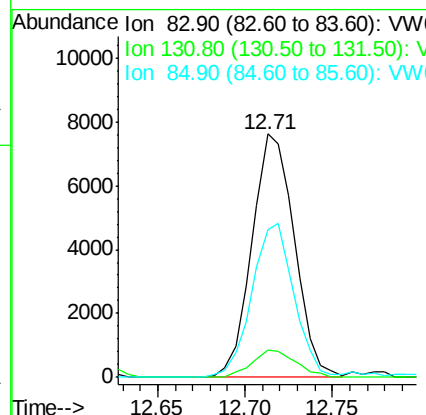
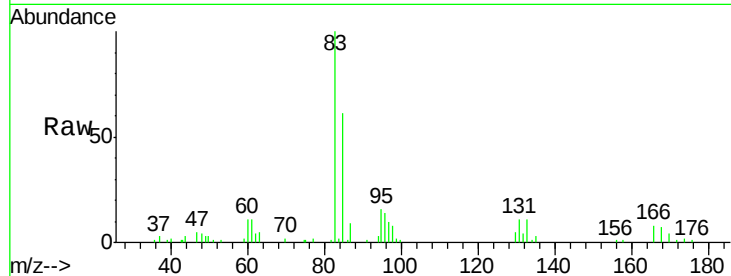




#75
 1,1,2,2-Tetrachloroethane
 Concen: 4.852 ug/l
 RT: 12.71 min Scan# 1773
 Delta R.T. -0.01 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

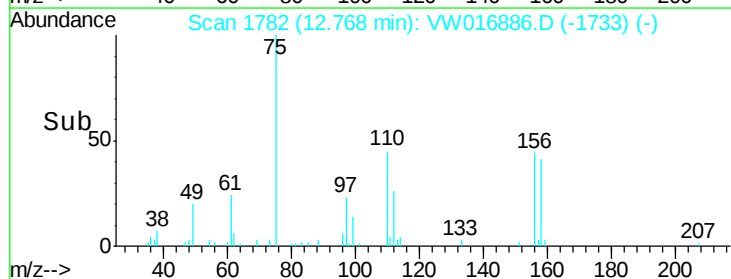
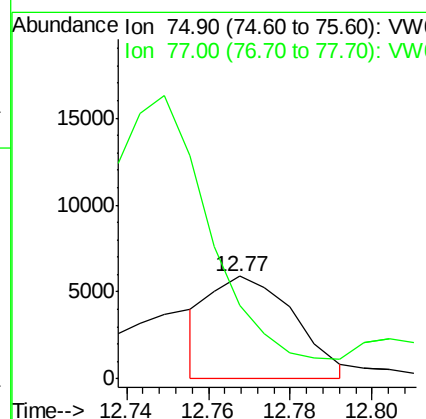
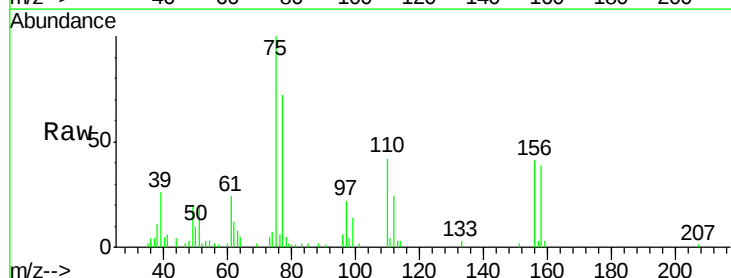
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

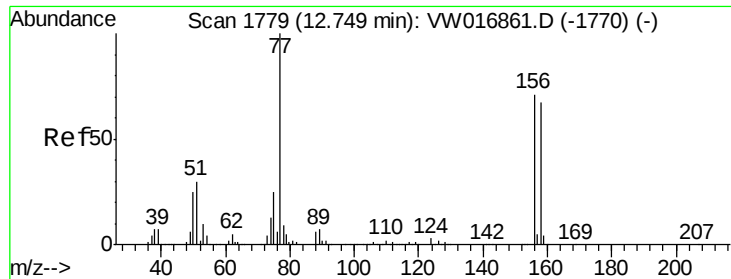
Tot Ion: 83 Resp: 12873
 Ion Ratio Lower Upper
 83 100
 131 11.5 6.1 18.3
 85 62.6 32.7 98.1



#76
 1,2,3-Trichloropropane
 Concen: 4.477 ug/l m
 RT: 12.77 min Scan# 1782
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

Tgt Ion: 75 Resp: 8499
 Ion Ratio Lower Upper
 75 100
 77 362.9 178.8 536.3

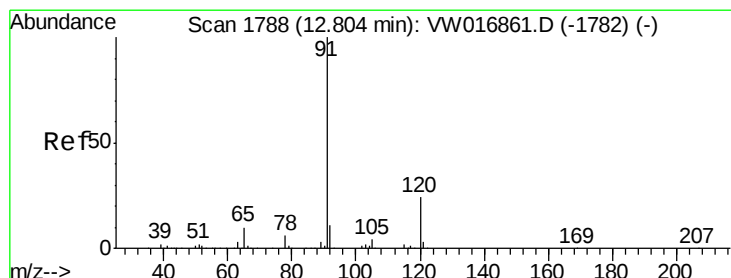
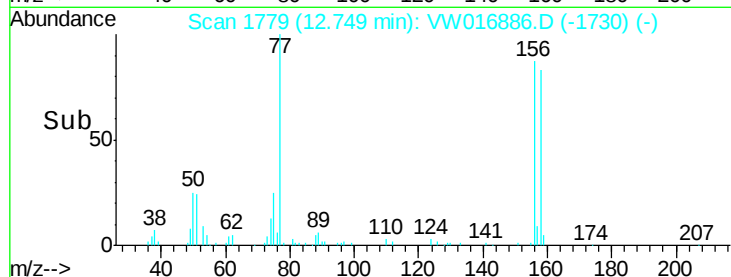
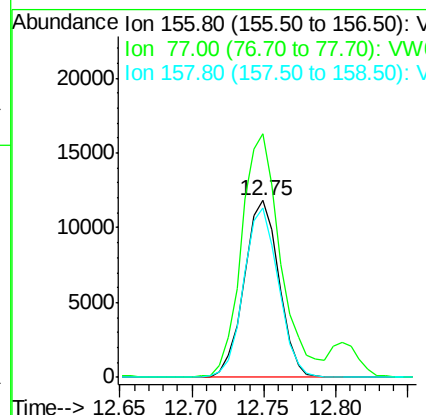
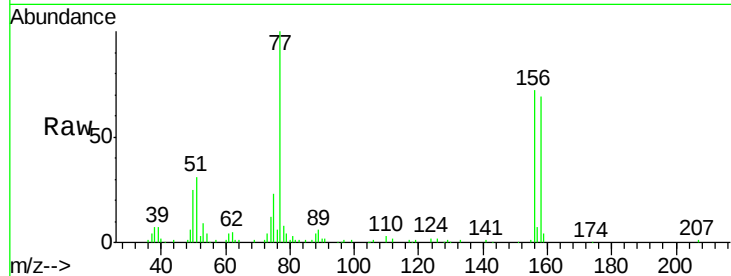




#77
Bromobenzene
Concen: 4.733 ug/l
RT: 12.75 min Scan# 1779
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

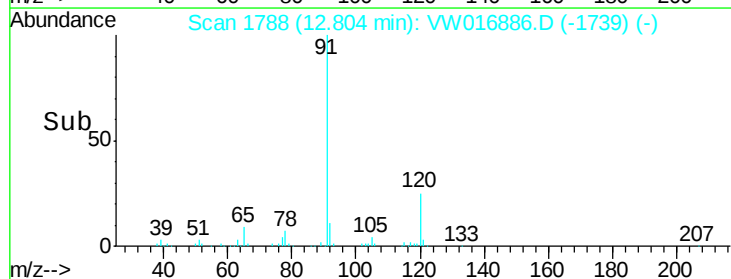
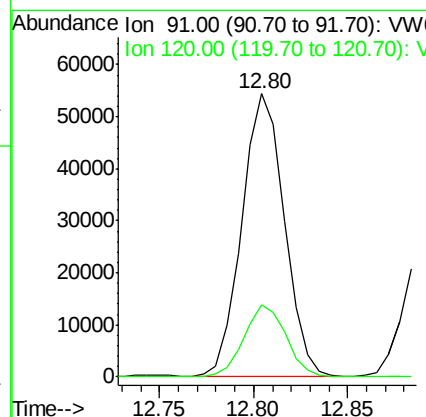
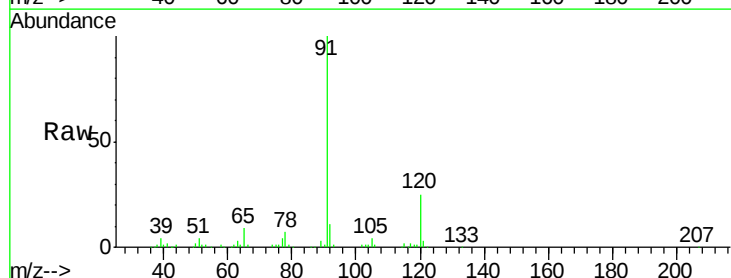
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

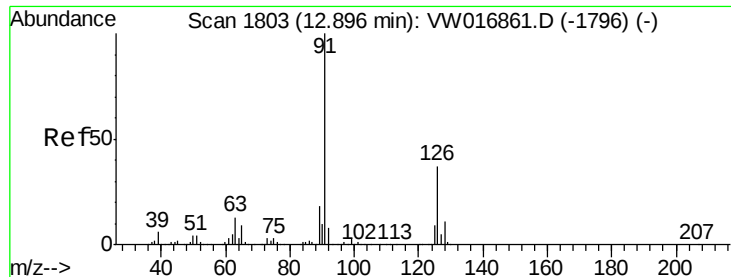
Tot Ion:156 Resp: 19783
Ion Ratio Lower Upper
156 100
77 155.9 79.0 237.2
158 95.5 47.0 141.2



#78
n-propylbenzene
Concen: 4.356 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

Tgt Ion: 91 Resp: 84946
Ion Ratio Lower Upper
91 100
120 24.9 12.0 36.1





#79

2-Chlorotoluene

Concen: 4.477 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

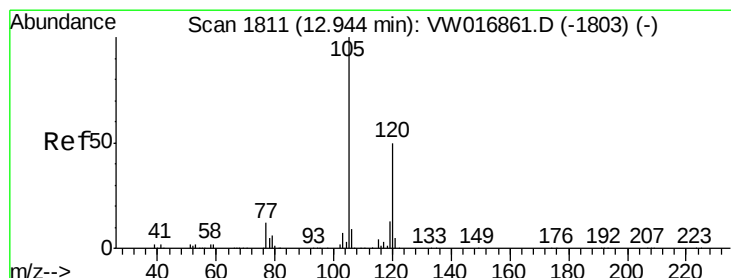
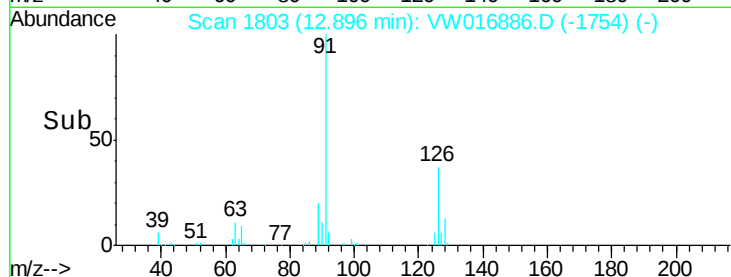
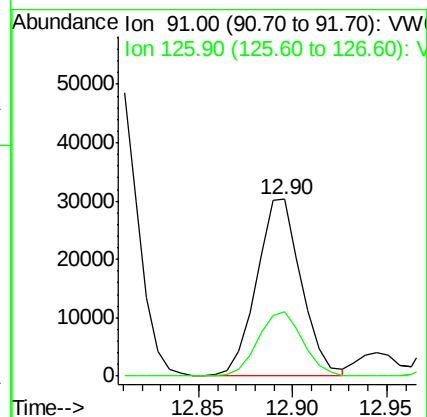
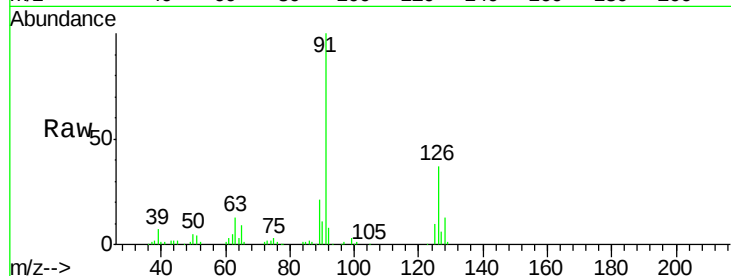
MDL-SOIL-03-QT4-2020

Tot Ion: 91 Resp: 49807

Ion Ratio Lower Upper

91 100

126 36.3 17.9 53.8



#80

1,3,5-Trimethylbenzene

Concen: 4.385 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW016886.D

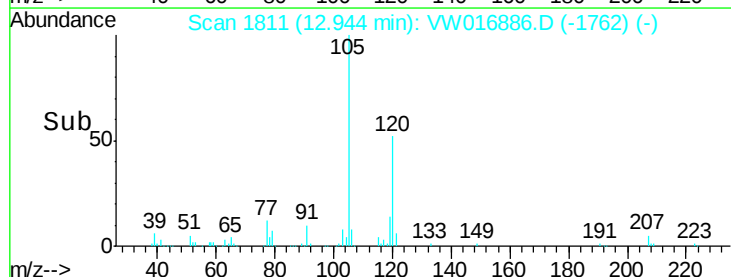
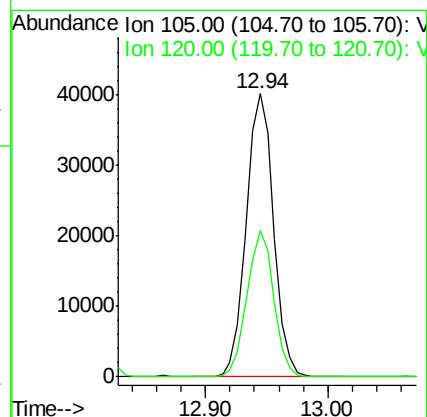
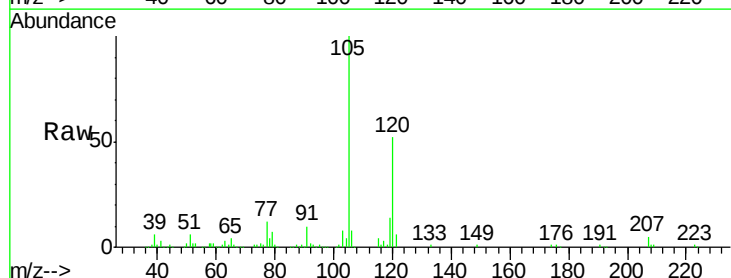
Acq: 12 Oct 2020 17:01

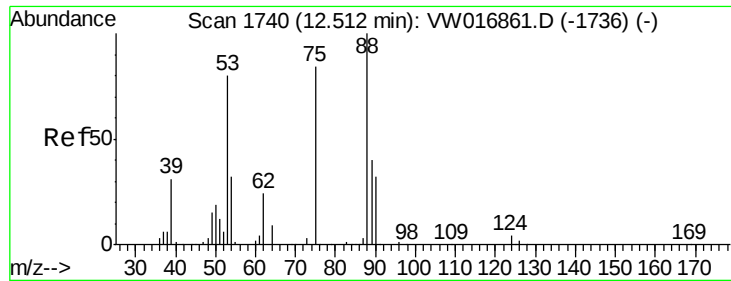
Tgt Ion:105 Resp: 62142

Ion Ratio Lower Upper

105 100

120 50.7 24.9 74.8

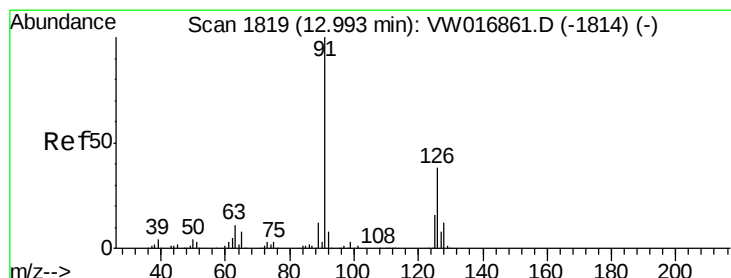
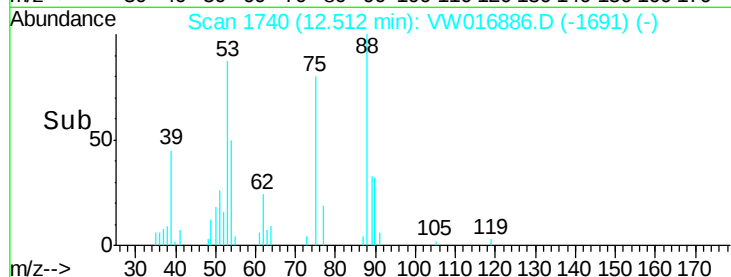
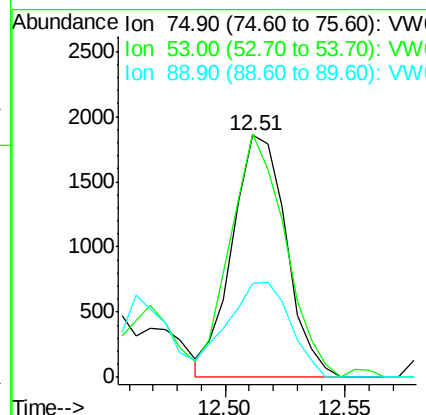
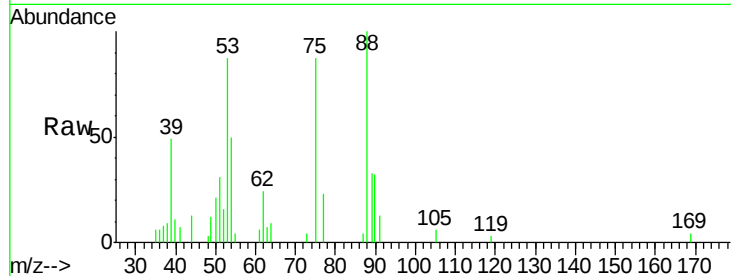




#81
trans-1,4-Dichloro-2-butene
Concen: 4.108 ug/l m
RT: 12.51 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

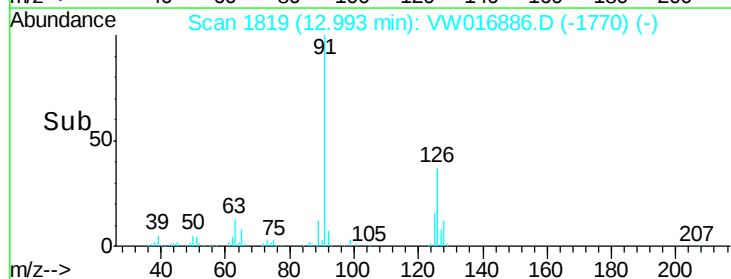
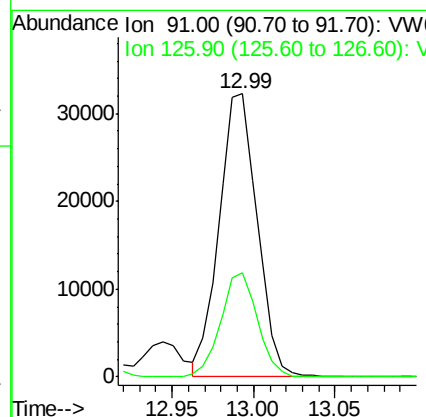
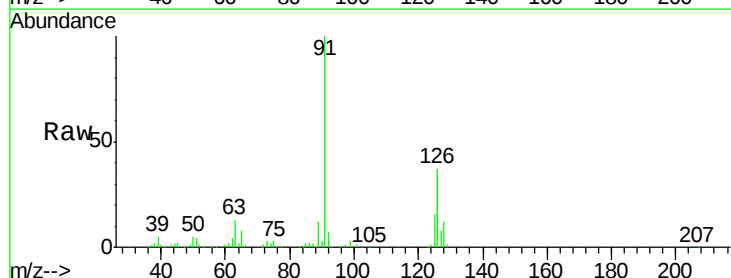
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

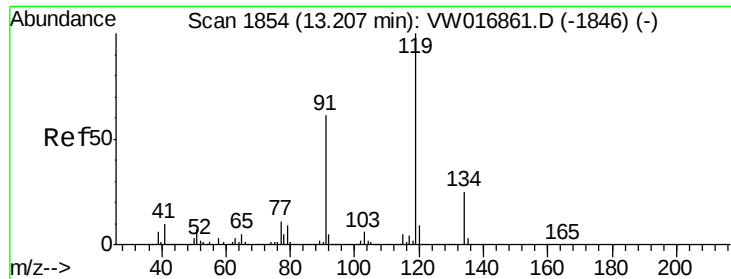
Tot Ion: 75 Resp: 2901
Ion Ratio Lower Upper
75 100
53 0.0 77.0 115.4#
89 15.9 38.7 58.1#



#82
4-Chlorotoluene
Concen: 4.556 ug/l
RT: 12.99 min Scan# 1819
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

Tgt Ion: 91 Resp: 52320
Ion Ratio Lower Upper
91 100
126 35.7 18.1 54.3

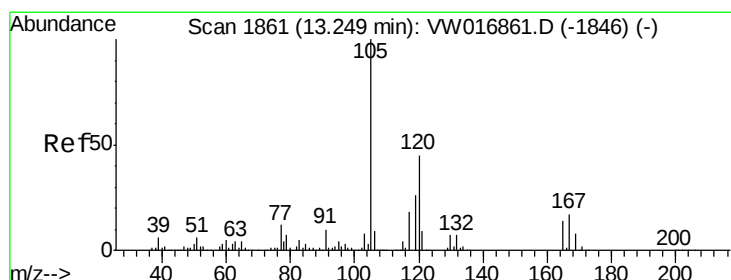
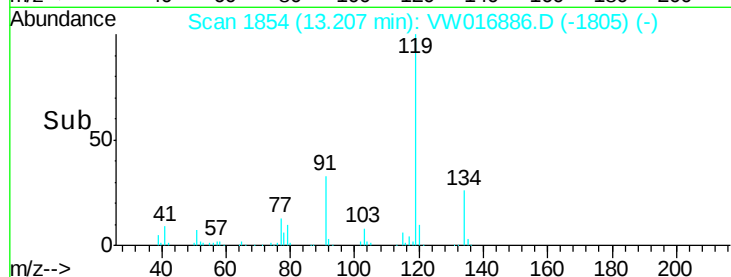
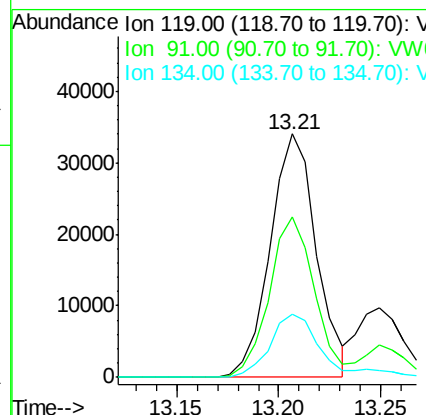
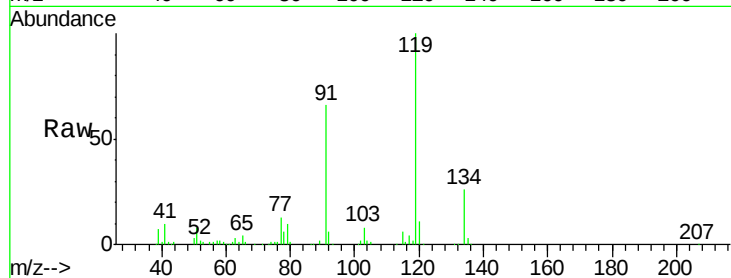




#83
tert-Butylbenzene
Concen: 4.365 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

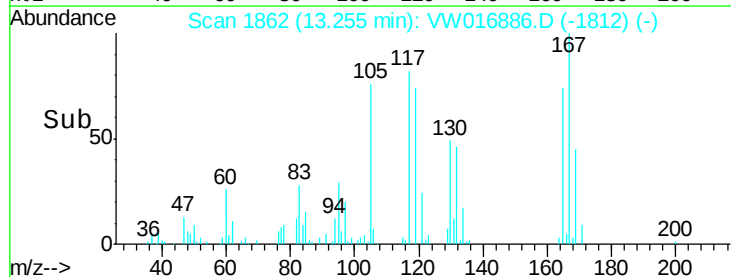
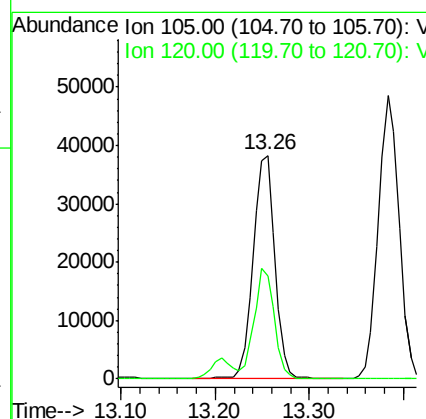
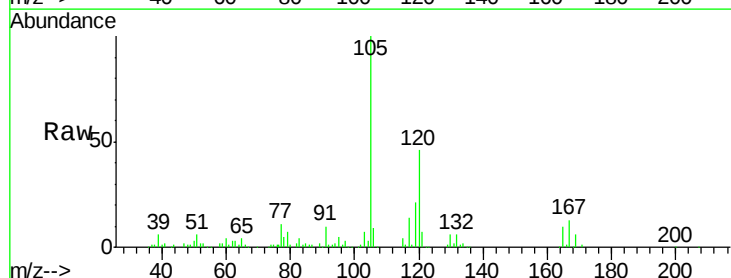
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

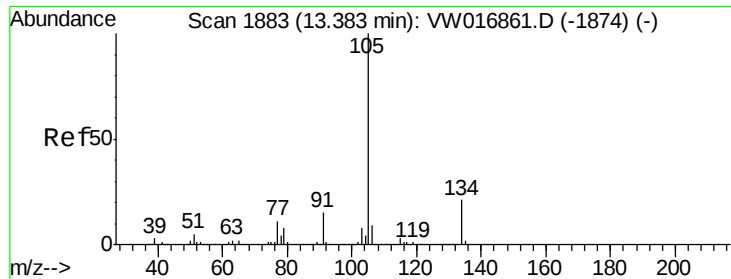
Tot Ion:119 Resp: 53727
Ion Ratio Lower Upper
119 100
91 64.1 31.3 93.9
134 26.8 14.0 42.0



#84
1,2,4-Trimethylbenzene
Concen: 4.401 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.01 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

Tgt Ion:105 Resp: 62149
Ion Ratio Lower Upper
105 100
120 46.0 23.4 70.0





#85

sec-Butylbenzene

Concen: 4.346 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

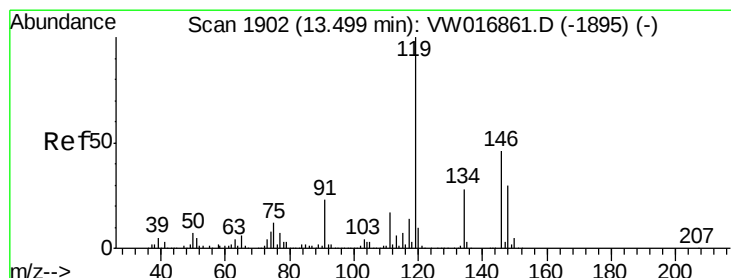
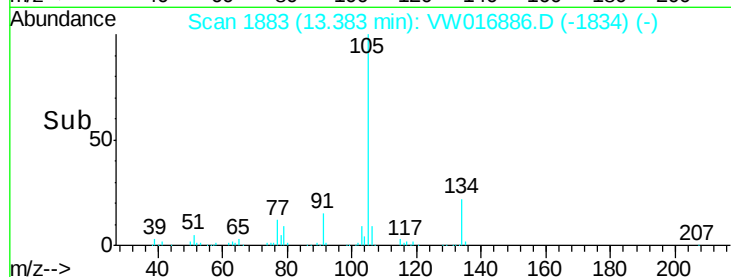
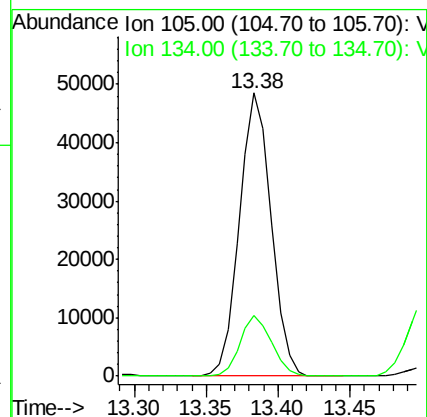
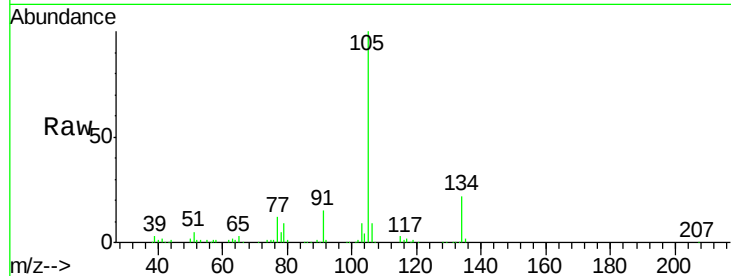
MDL-SOIL-03-QT4-2020

Tot Ion:105 Resp: 74460

Ion Ratio Lower Upper

105 100

134 21.2 10.6 31.8



#86

p-Isopropyltoluene

Concen: 4.383 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

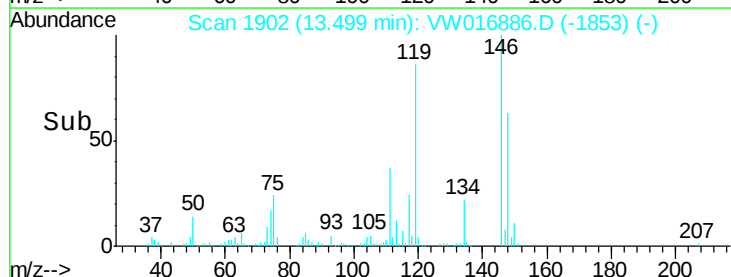
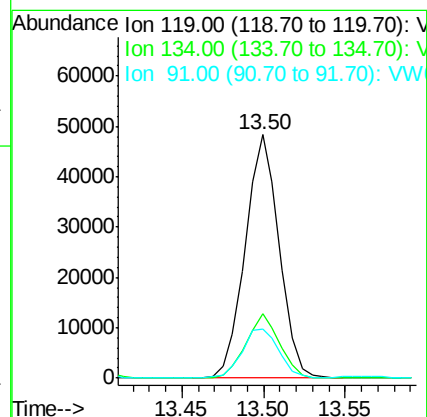
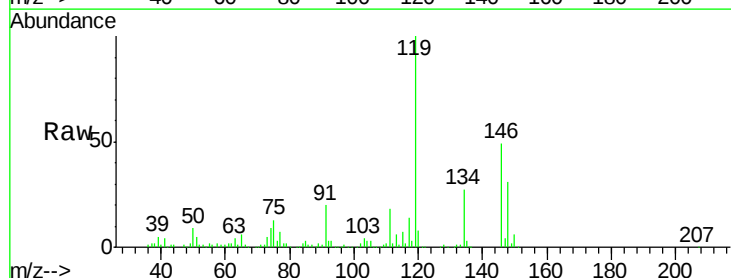
Tgt Ion:119 Resp: 69926

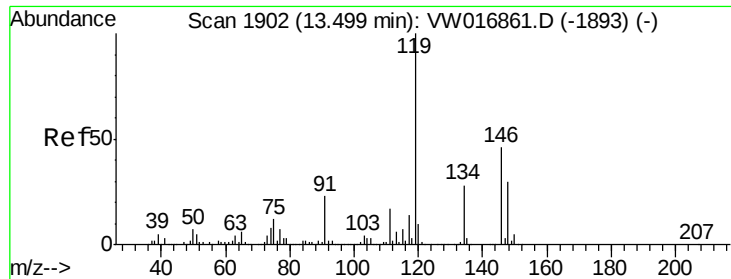
Ion Ratio Lower Upper

119 100

134 26.1 13.8 41.3

91 22.2 11.3 33.9

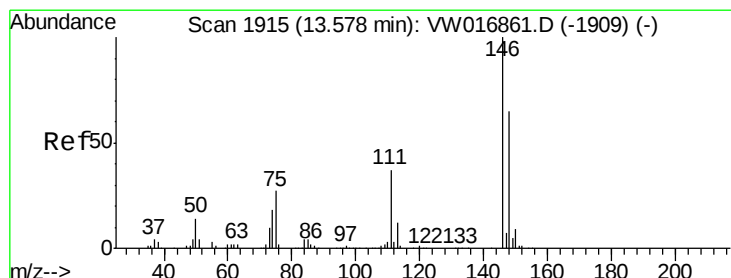
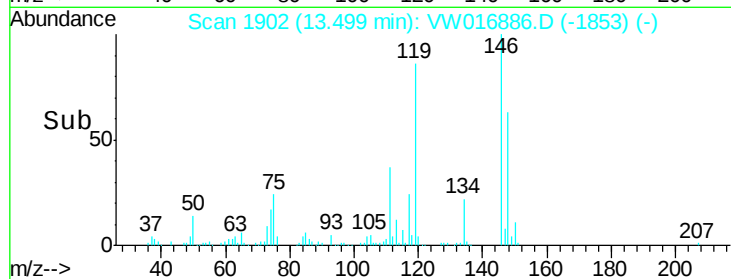
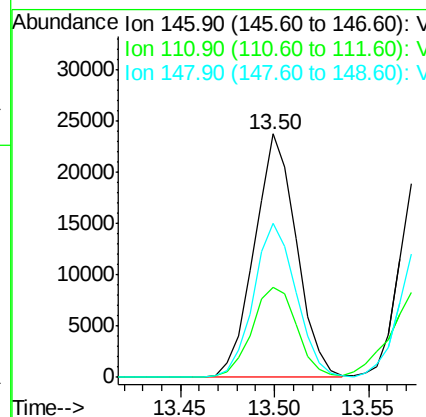
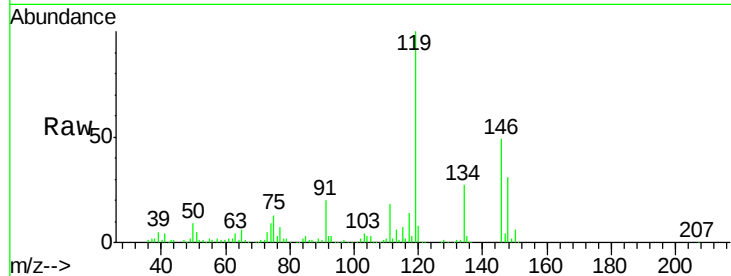




#87
 1,3-Dichlorobenzene
 Concen: 4.533 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

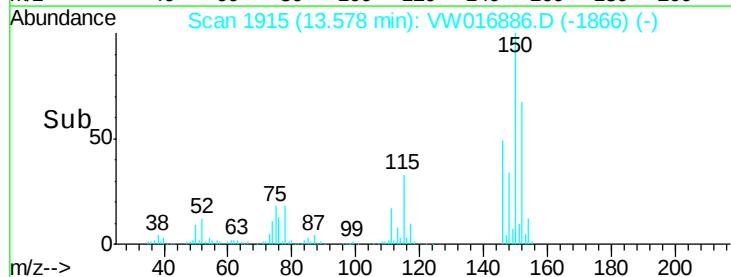
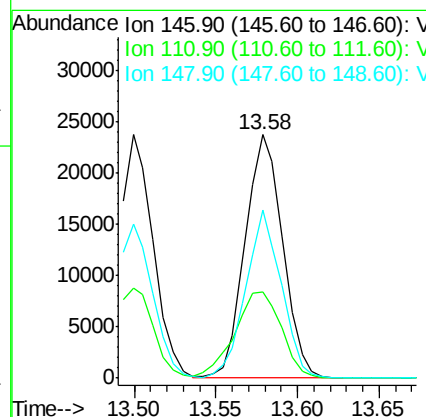
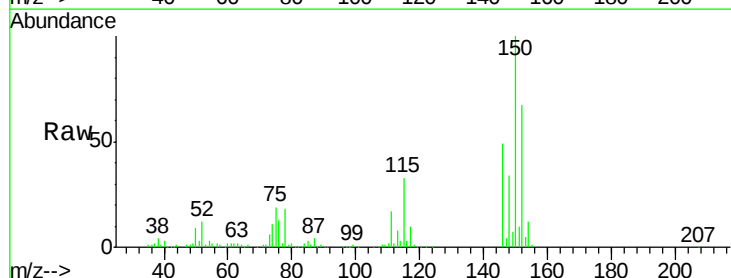
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

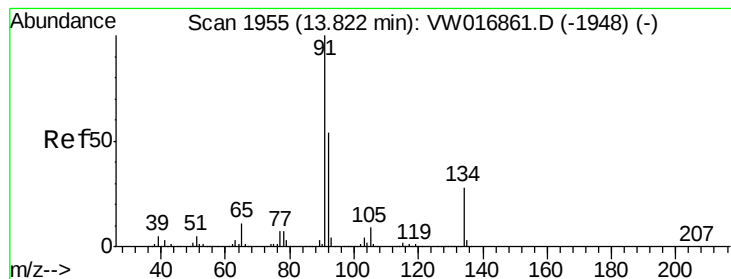
Tot Ion:146 Resp: 36642
 Ion Ratio Lower Upper
 146 100
 111 39.7 19.1 57.5
 148 64.1 32.5 97.4



#88
 1,4-Dichlorobenzene
 Concen: 4.782 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

Tgt Ion:146 Resp: 38094
 Ion Ratio Lower Upper
 146 100
 111 43.8 18.5 55.5
 148 65.6 31.8 95.4





#89

n-Butylbenzene

Concen: 4.268 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW016886.D

Acq: 12 Oct 2020 17:01

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

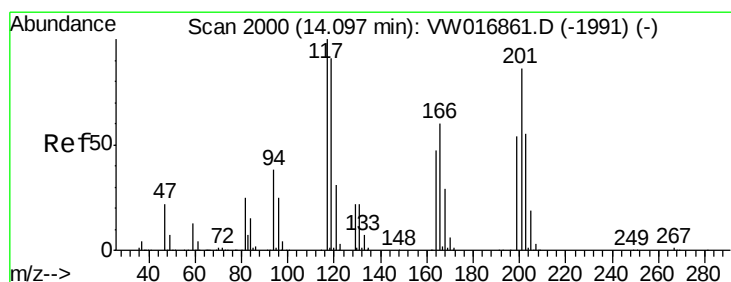
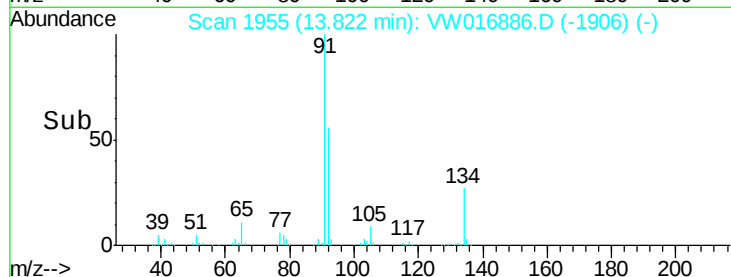
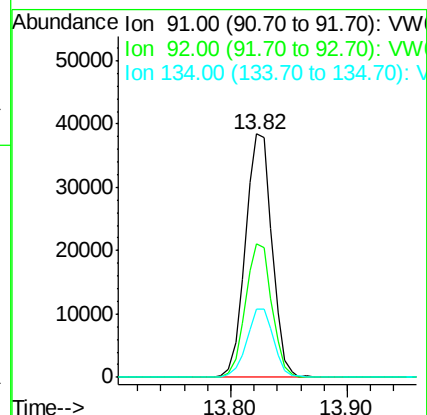
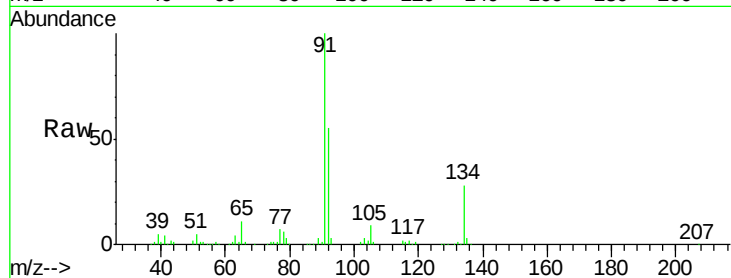
Tot Ion: 91 Resp: 61334

Ion Ratio Lower Upper

91 100

92 54.3 26.6 79.7

134 28.4 14.3 42.9



#90

Hexachloroethane

Concen: 4.110 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. -0.01 min

Lab File: VW016886.D

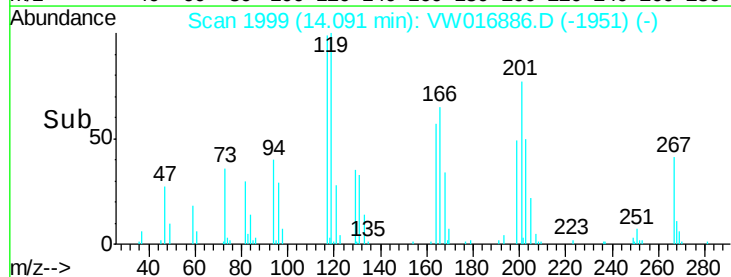
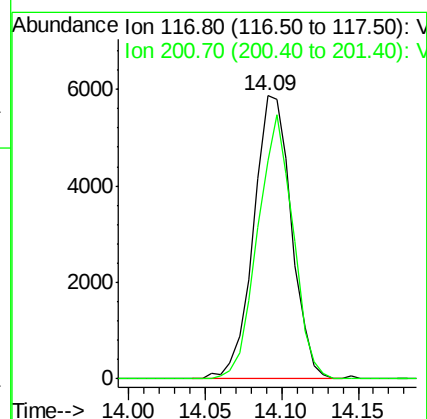
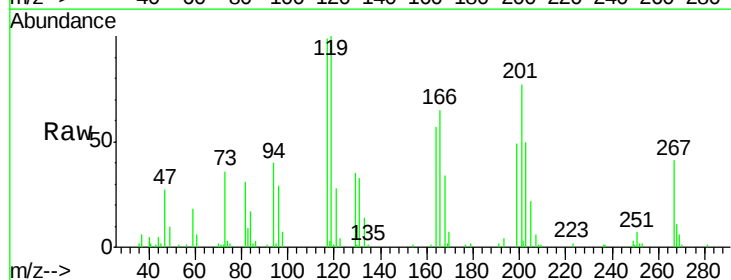
Acq: 12 Oct 2020 17:01

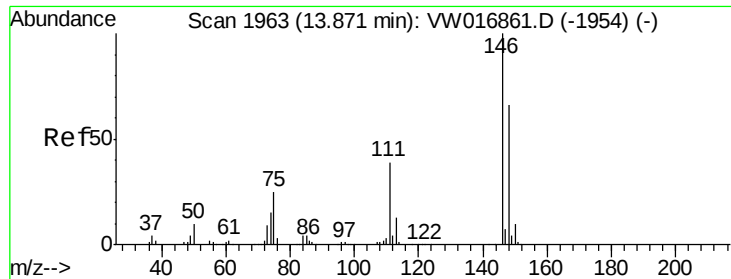
Tgt Ion: 117 Resp: 10117

Ion Ratio Lower Upper

117 100

201 87.3 41.9 125.7

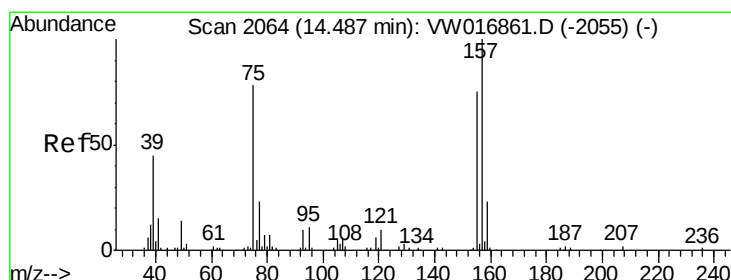
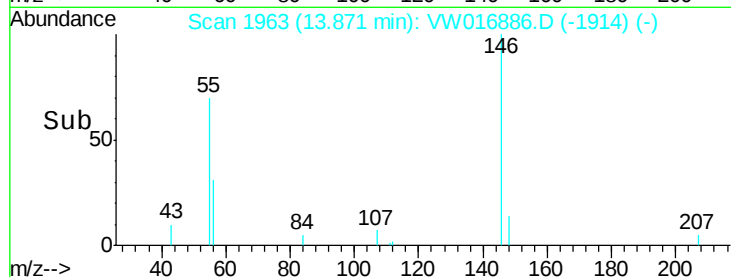
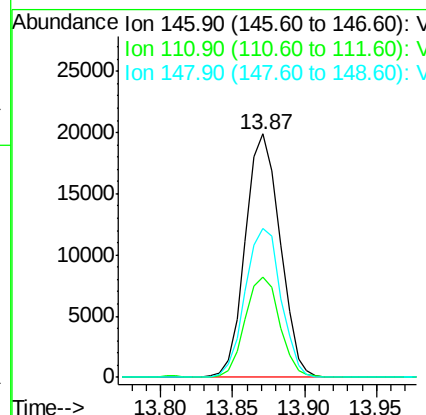
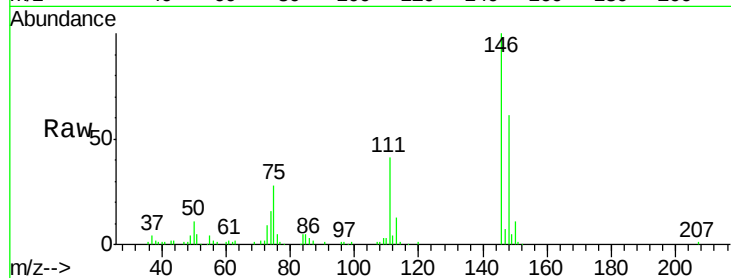




#91
 1,2-Dichlorobenzene
 Concen: 4.758 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

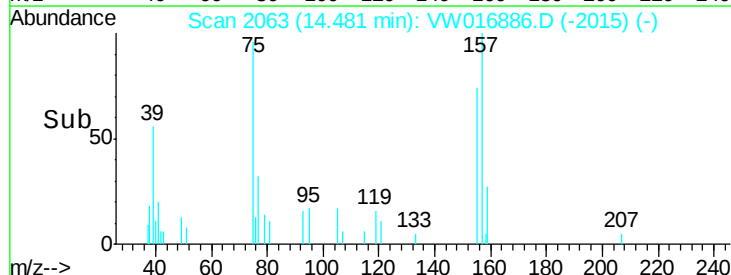
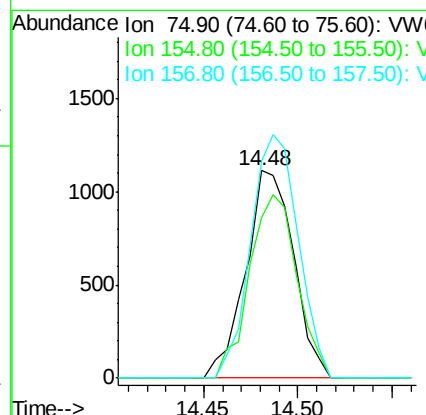
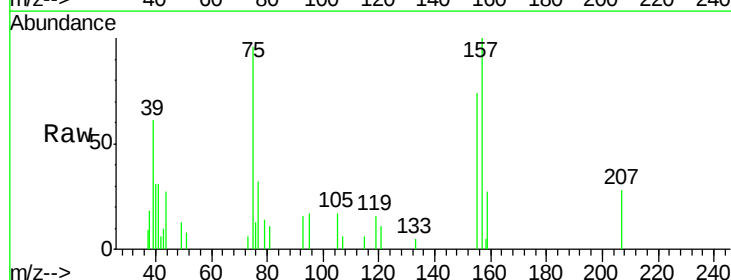
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

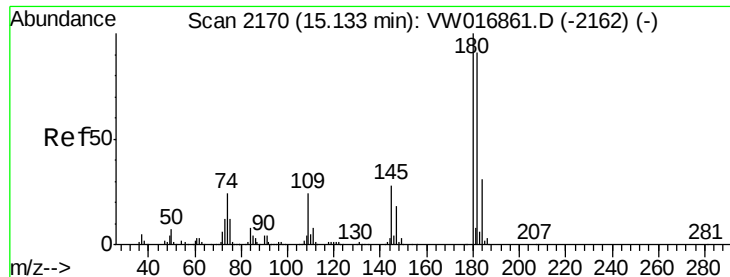
Tot Ion:146 Resp: 33183
 Ion Ratio Lower Upper
 146 100
 111 41.2 20.1 60.3
 148 62.9 33.1 99.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.829 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.01 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

Tgt Ion: 75 Resp: 1962
 Ion Ratio Lower Upper
 75 100
 155 87.5 47.6 142.8
 157 115.8 62.2 186.6

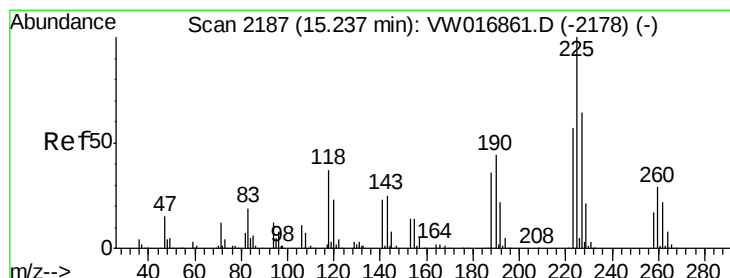
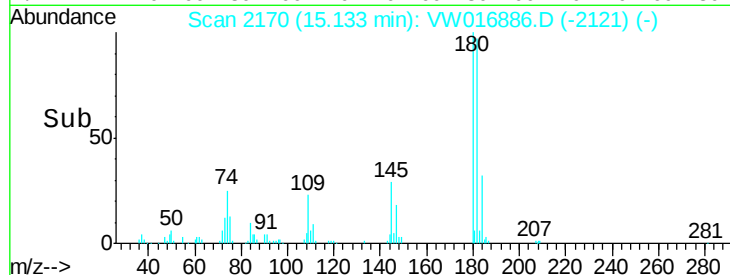
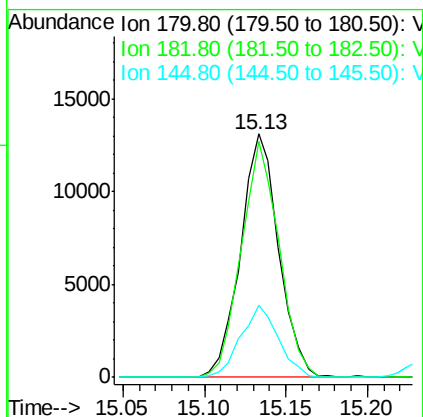
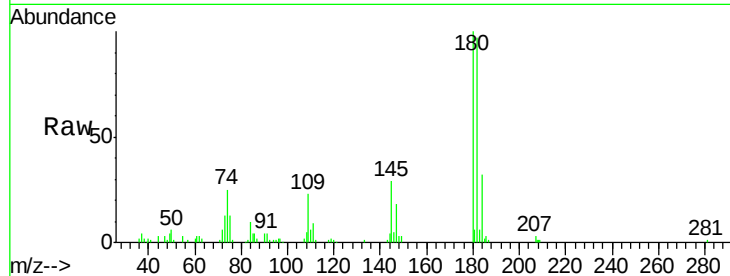




#93
 1,2,4-Trichlorobenzene
 Concen: 4.438 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

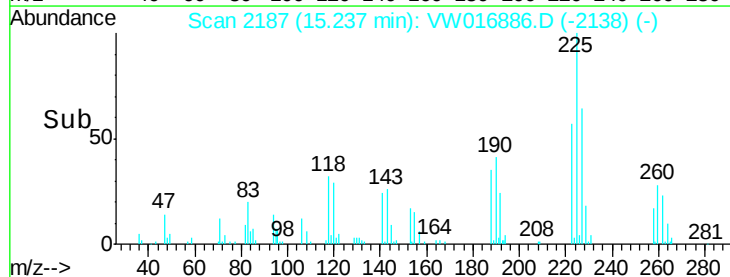
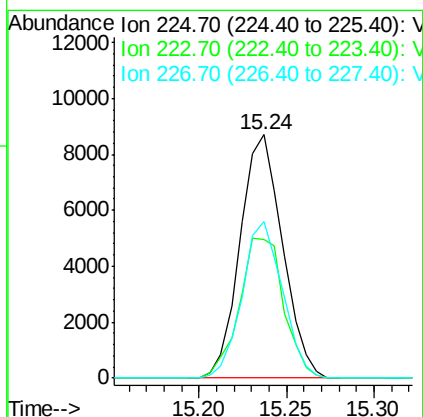
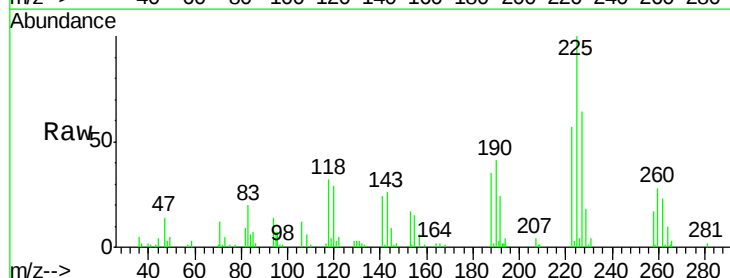
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

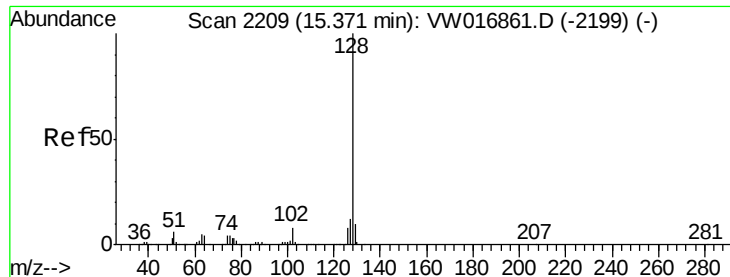
Tot Ion:180 Resp: 21355
 Ion Ratio Lower Upper
 180 100
 182 95.6 48.3 144.9
 145 29.0 14.9 44.5



#94
 Hexachlorobutadiene
 Concen: 4.698 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW016886.D
 Acq: 12 Oct 2020 17:01

Tgt Ion:225 Resp: 14655
 Ion Ratio Lower Upper
 225 100
 223 60.1 31.9 95.7
 227 61.2 33.0 99.0

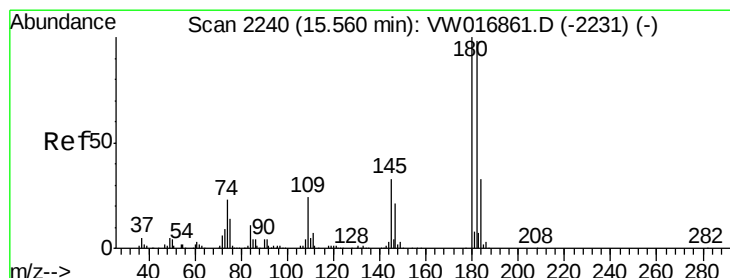
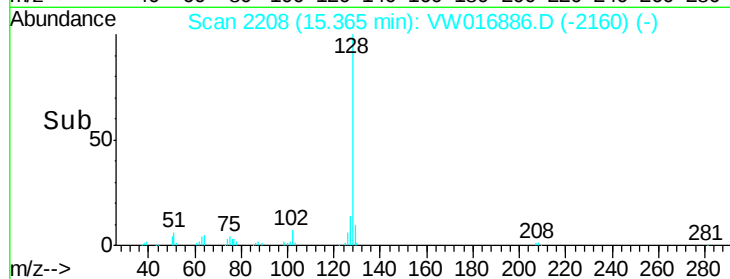
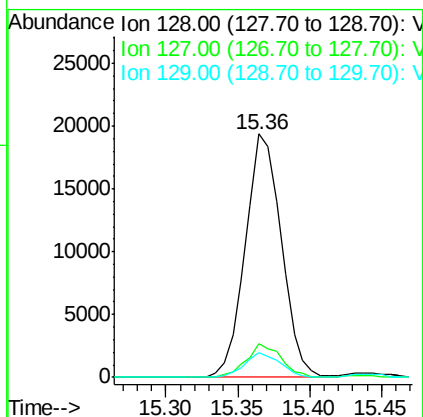
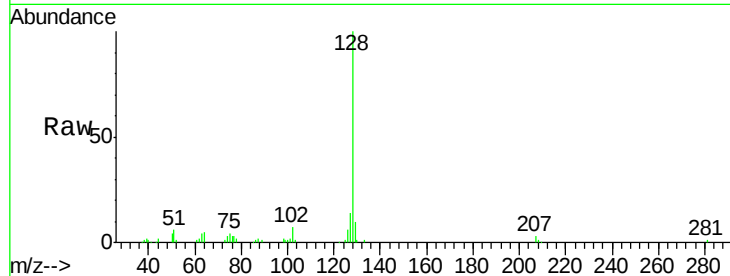




#95
Naphthalene
Concen: 4.301 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.01 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion	128	Resp	33633
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.4	15.6
129	10.0	8.6	12.8



#96
1,2,3-Trichlorobenzene
Concen: 4.792 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VW016886.D
Acq: 12 Oct 2020 17:01

Tgt Ion	180	Resp	20061
Ion Ratio	Lower	Upper	
180	100		
182	89.9	49.4	148.2
145	30.7	16.3	48.9

