

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091820\
 Data File : VW016586.D
 Acq On : 18 Sep 2020 15:44
 Operator : SY/VA
 Sample : MDL01
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-01

Quant Time: Sep 19 00:20:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SFAMWLM091820SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Sep 18 13:07:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	625757	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	555887	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.56	152	284301	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.37	65	163758	23.43	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.72%
7) Chloroethane-d5	2.90	69	127389	22.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.80%
11) 1,1-Dichloroethene-d2	4.03	63	244570	16.58	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	66.32%
21) 2-Butanone-d5	7.09	46	84564	53.50	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.00%
24) Chloroform-d	7.65	84	329302	22.34	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	89.36%
26) 1,2-Dichloroethane-d4	8.31	65	184289	24.48	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.92%
32) Benzene-d6	8.28	84	650377	22.91	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	91.64%
36) 1,2-Dichloropropane-d6	9.27	67	182419	23.36	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	93.44%
41) Toluene-d8	10.33	98	632134	22.83	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.32%
43) trans-1,3-Dichloropropene-	10.58	79	90212	23.82	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.28%
47) 2-Hexanone-d5	10.93	63	66780	54.34	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.68%
56) 1,1,2,2-Tetrachloroethane-	12.69	84	156773	25.79	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	103.16%
66) 1,2-Dichlorobenzene-d4	13.85	152	238714	23.19	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.76%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.02	85	8529	1.130	ug/L	98
3) Chloromethane	2.22	50	6784	1.135	ug/L	94
5) Vinyl chloride	2.38	62	10637	1.241	ug/L #	73
6) Bromomethane	2.79	94	7917	1.202	ug/L	98
8) Chloroethane	2.93	64	5696	1.118	ug/L	95
9) Trichlorofluoromethane	3.27	101	7625	0.938	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	4.07	101	8159	1.011	ug/L #	57
12) 1,1-Dichloroethene	4.04	96	11103	1.376	ug/L #	1
13) Acetone	4.15	43	1988	1.864	ug/L	53
14) Carbon disulfide	4.40	76	27154	1.133	ug/L	99
15) Methyl Acetate	4.70	43	3576	1.366	ug/L	93
16) Methylene chloride	4.93	84	27734	3.024	ug/L	93
17) trans-1,2-Dichloroethene	5.43	96	9557	1.141	ug/L	96
18) Methyl tert-butyl Ether	5.43	73	7480	0.727	ug/L #	76
19) 1,1-Dichloroethane	6.22	63	15139	1.141	ug/L	97
20) cis-1,2-Dichloroethene	7.18	96	9993	1.148	ug/L	85
23) Bromochloromethane	7.52	128	4719	1.153	ug/L	91

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 QLast Update : Fri Sep 18 13:07:26 2020
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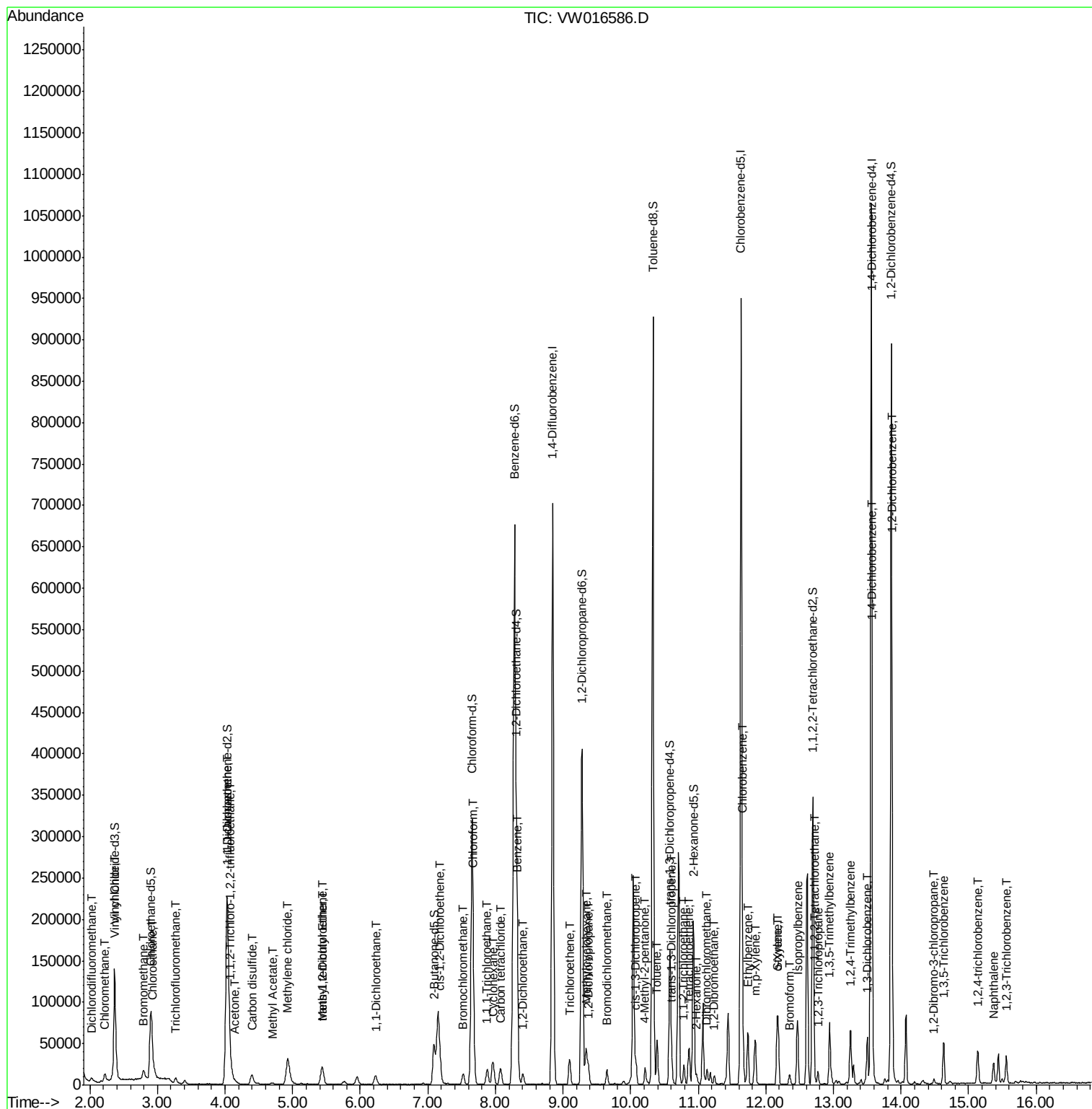
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	7.68	83	17832	1.229	ug/L	97
27) 1,2-Dichloroethane	8.40	62	11045	1.226	ug/L	100
29) Cyclohexane	7.97	56	14409	1.161	ug/L	98
30) 1,1,1-Trichloroethane	7.88	97	14850	1.121	ug/L	97
31) Carbon tetrachloride	8.08	117	14058	1.090	ug/L	93
33) Benzene	8.33	78	39967	1.298	ug/L	100
34) Trichloroethene	9.10	95	10586	1.198	ug/L	91
35) Methylcyclohexane	9.34	83	17403	1.179	ug/L	100
37) 1,2-Dichloropropane	9.38	63	8437	1.202	ug/L	98
38) Bromodichloromethane	9.65	83	12180	1.170	ug/L	93
39) cis-1,3-Dichloropropene	10.07	75	13705	1.143	ug/L	97
40) 4-Methyl-2-pentanone	10.21	43	12833	3.262	ug/L	99
42) Toluene	10.40	91	39723	1.145	ug/L	97
44) trans-1,3-Dichloropropene	10.61	75	16925	1.646	ug/L	99
45) 1,1,2-Trichloroethane	10.79	97	7002	1.228	ug/L	93
46) Tetrachloroethene	10.87	164	9794	1.229	ug/L	93
48) 2-Hexanone	10.98	43	6351	2.596	ug/L	94
49) Dibromochloromethane	11.13	129	8933	1.193	ug/L	95
50) 1,2-Dibromoethane	11.24	107	7234	1.281	ug/L #	88
51) Chlorobenzene	11.66	112	26600	1.156	ug/L	98
52) Ethylbenzene	11.73	91	45002	1.152	ug/L	99
53) m,p-Xylene	11.84	106	17783	1.169	ug/L	97
54) o-Xylene	12.16	106	16054	1.115	ug/L	96
55) Styrene	12.18	104	26501	1.105	ug/L	95
57) 1,1,2,2-Tetrachloroethane	12.72	83	8713	1.419	ug/L #	91
59) Bromoform	12.35	173	4990	1.087	ug/L	99
60) Isopropylbenzene	12.47	105	46218	1.113	ug/L #	96
61) 1,2,3-Trichloropropane	12.77	75	5998	1.280	ug/L	97
62) 1,3,5-Trimethylbenzene	12.94	105	36421	1.066	ug/L	98
63) 1,2,4-Trimethylbenzene	13.26	105	36232	1.067	ug/L	94
64) 1,3-Dichlorobenzene	13.50	146	21888	1.149	ug/L	96
65) 1,4-Dichlorobenzene	13.58	146	22996	1.231	ug/L	93
67) 1,2-Dichlorobenzene	13.87	146	20023	1.188	ug/L	98
68) 1,2-Dibromo-3-chloropropan	14.49	75	1429	1.298	ug/L #	80
69) 1,3,5-Trichlorobenzene	14.63	180	16767	1.193	ug/L	95
70) 1,2,4-trichlorobenzene	15.13	180	13282	1.170	ug/L	99
71) Naphthalene	15.37	128	21002	1.102	ug/L	99
72) 1,2,3-Trichlorobenzene	15.56	180	11340	1.189	ug/L	100

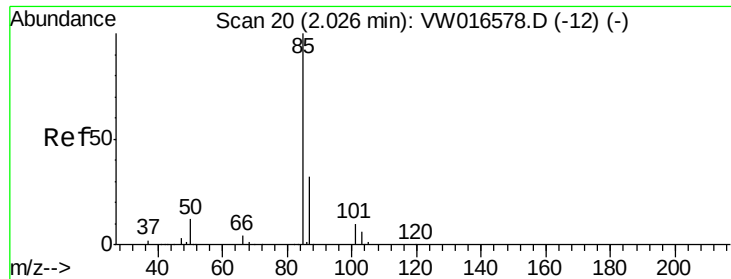
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.130 ug/L

RT: 2.02 min Scan# 19

Delta R.T. -0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampleId :

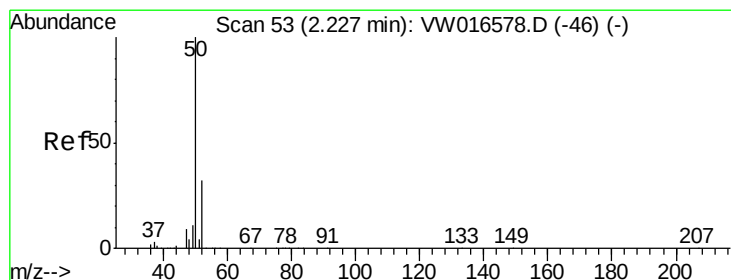
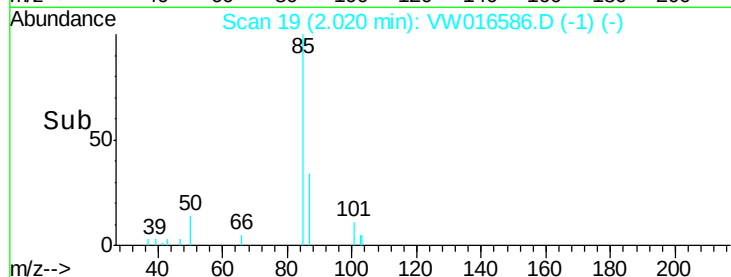
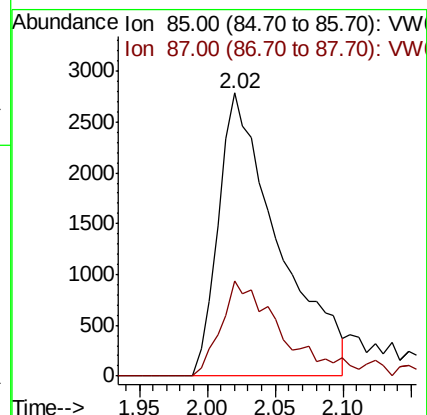
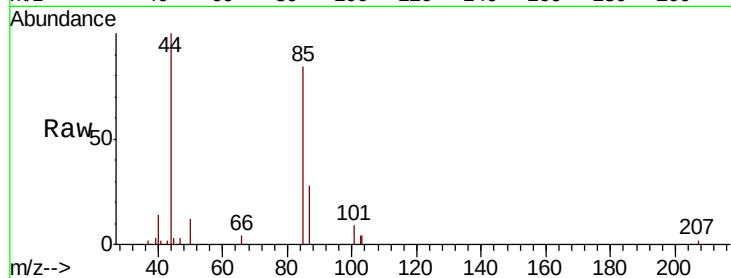
MDL-SOIL-01

Tot Ion: 85 Resp: 8529

Ion Ratio Lower Upper

85 100

87 27.7 21.4 32.0



#3

Chloromethane

Concen: 1.135 ug/L

RT: 2.22 min Scan# 52

Delta R.T. -0.01 min

Lab File: VW016586.D

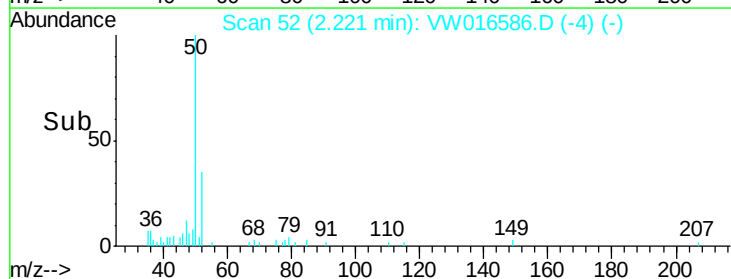
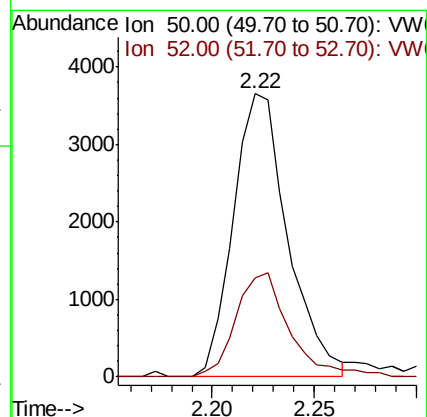
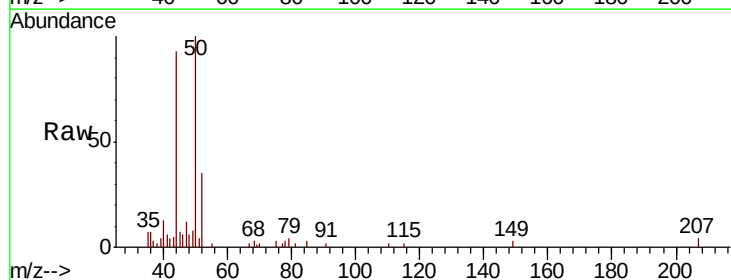
Acq: 18 Sep 2020 15:44

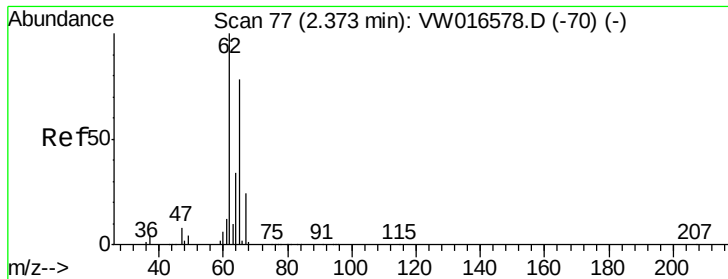
Tgt Ion: 50 Resp: 6784

Ion Ratio Lower Upper

50 100

52 35.0 22.1 41.1





#5

Vinyl chloride

Concen: 1.241 ug/L

RT: 2.38 min Scan# 78

Delta R.T. 0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampled :

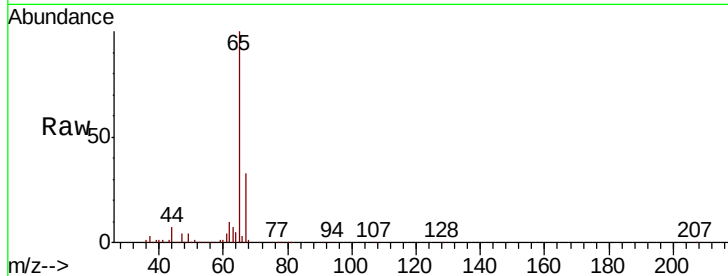
MDL-SOIL-01

Tot Ion: 62 Resp: 10637

Ion Ratio Lower Upper

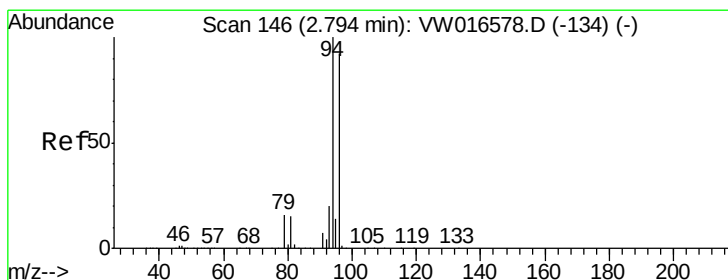
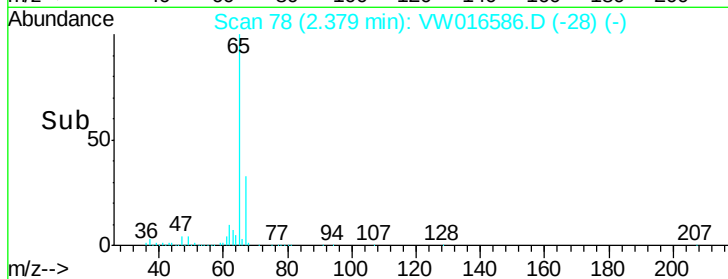
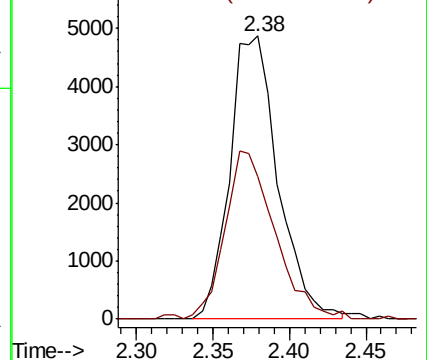
62 100

64 50.2 24.1 44.7#



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 1.202 ug/L

RT: 2.79 min Scan# 146

Delta R.T. 0.00 min

Lab File: VW016586.D

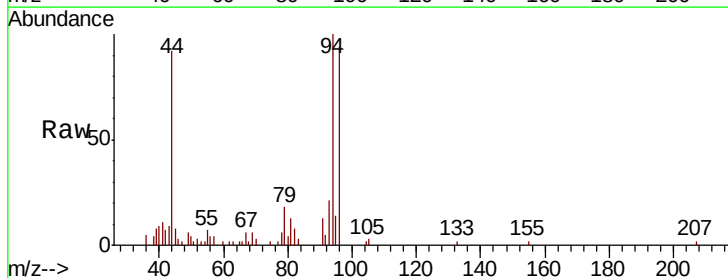
Acq: 18 Sep 2020 15:44

Tgt Ion: 94 Resp: 7917

Ion Ratio Lower Upper

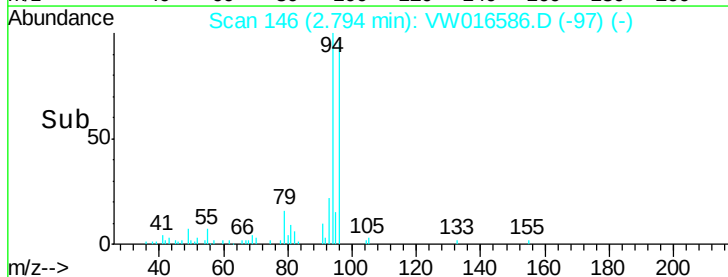
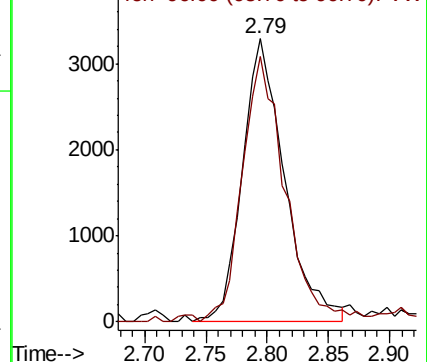
94 100

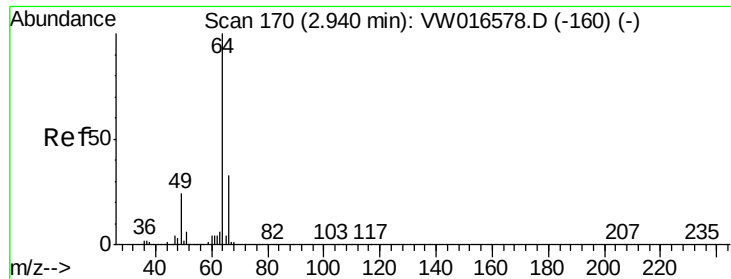
96 93.7 64.2 119.2



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW





#8

Chloroethane

Concen: 1.118 ug/L

RT: 2.93 min Scan# 169

Delta R.T. -0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampleId :

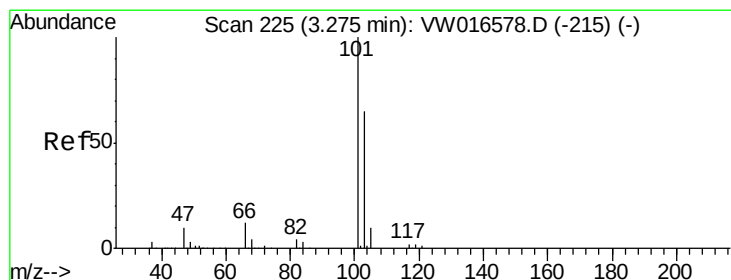
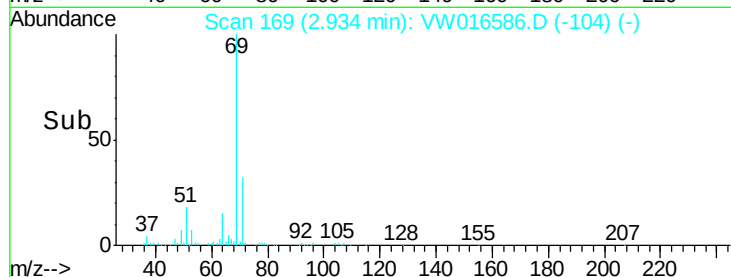
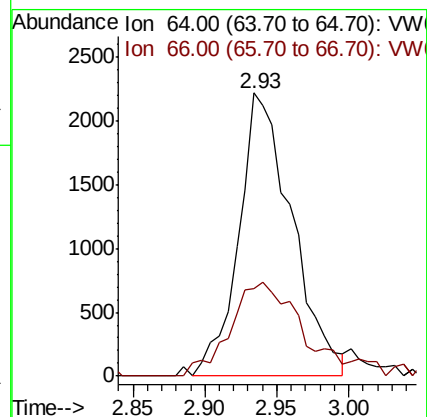
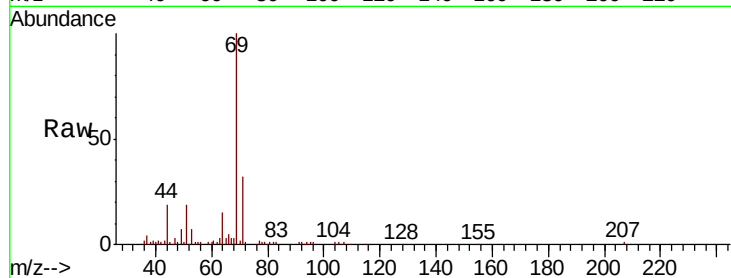
MDL-SOIL-01

Tot Ion: 64 Resp: 5696

Ion Ratio Lower Upper

64 100

66 30.9 23.5 43.7



#9

Trichlorofluoromethane

Concen: 0.938 ug/L

RT: 3.27 min Scan# 224

Delta R.T. -0.01 min

Lab File: VW016586.D

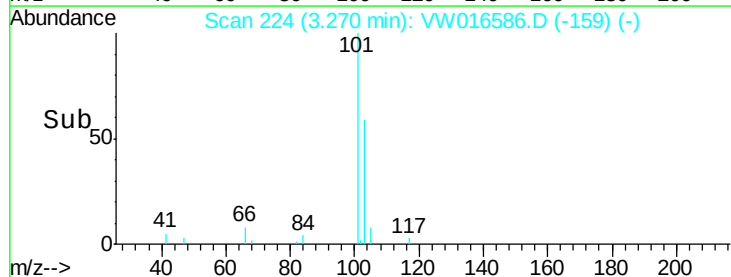
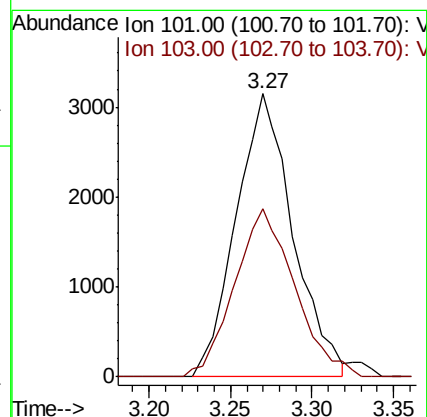
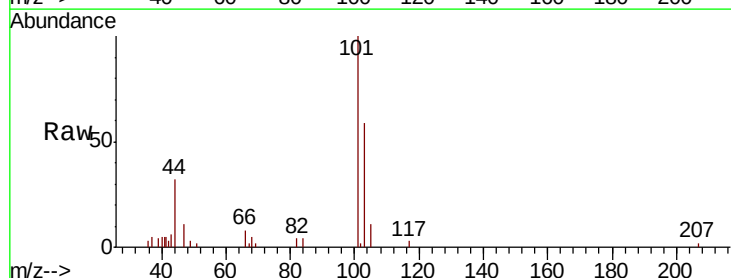
Acq: 18 Sep 2020 15:44

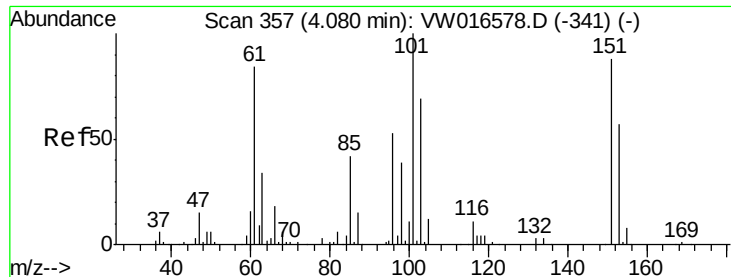
Tgt Ion: 101 Resp: 7625

Ion Ratio Lower Upper

101 100

103 62.9 51.8 77.8





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.011 ug/L

RT: 4.07 min Scan# 356

Delta R.T. -0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-01

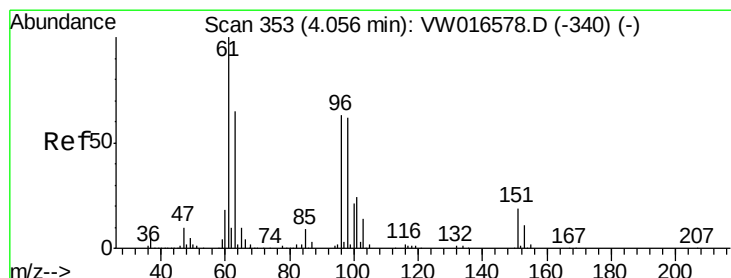
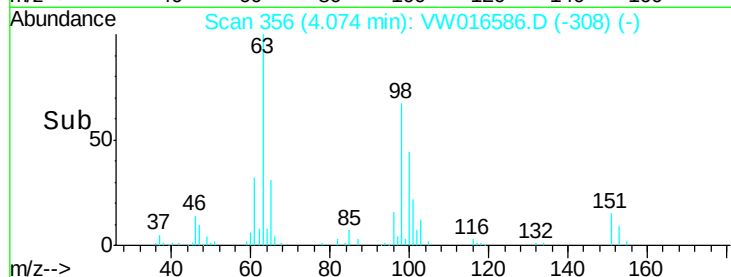
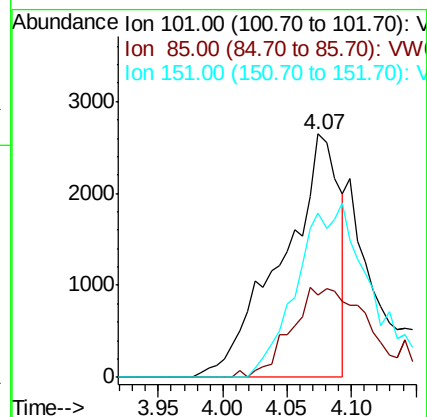
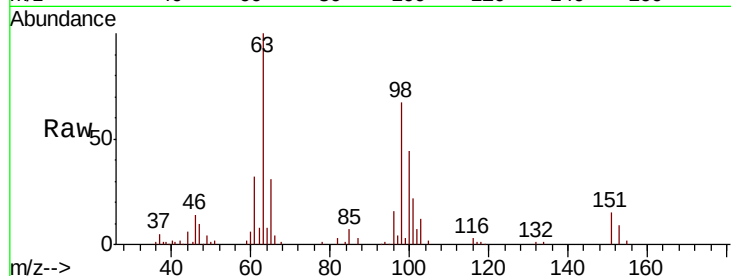
Tot Ion:101 Resp: 8159

Ion Ratio Lower Upper

101 100

85 19.6 32.2 48.2#

151 40.9 66.8 100.2#



#12

1,1-Dichloroethene

Concen: 1.376 ug/L

RT: 4.04 min Scan# 351

Delta R.T. -0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

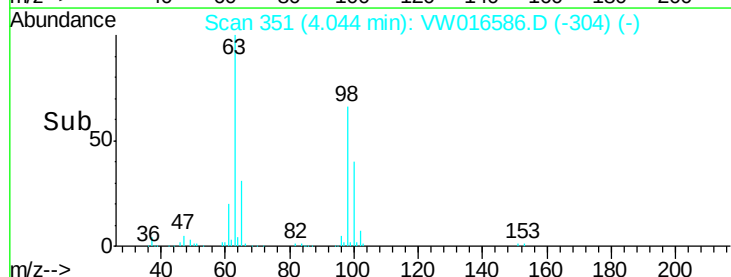
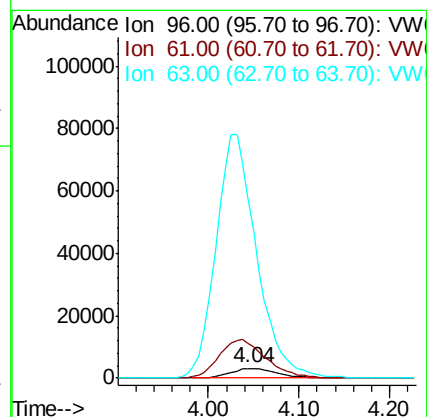
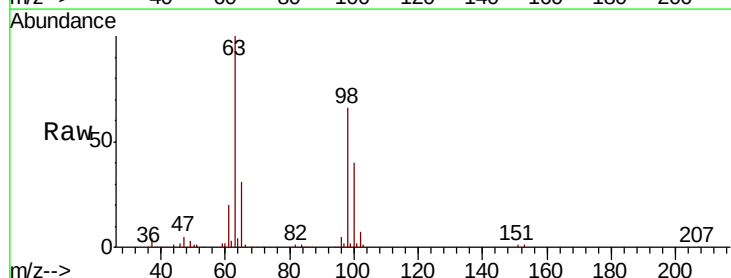
Tgt Ion: 96 Resp: 11103

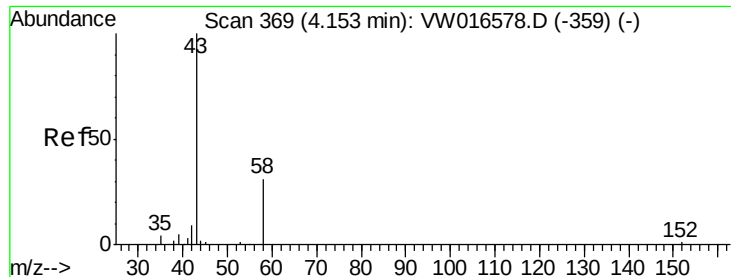
Ion Ratio Lower Upper

96 100

61 359.5 112.1 208.3#

63 1834.7 74.2 137.8#





#13

Acetone

Concen: 1.864 ug/L

RT: 4.15 min Scan# 368

Delta R.T. -0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampled :

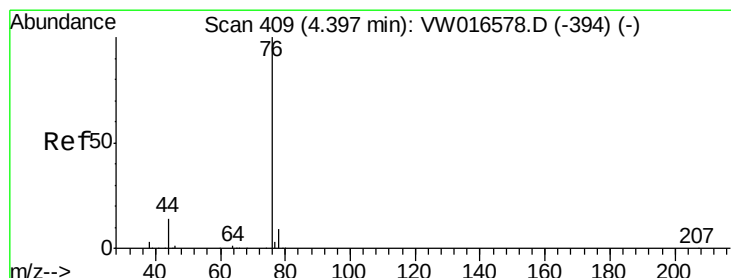
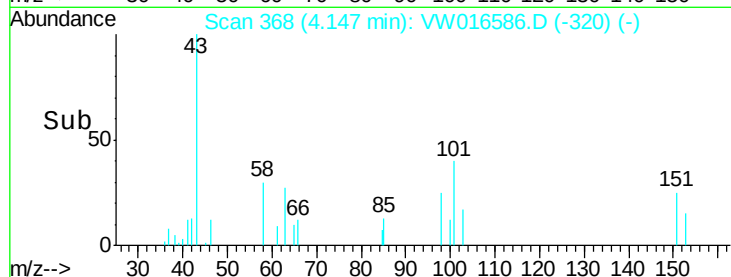
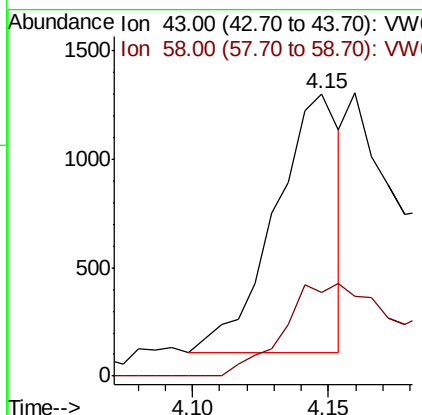
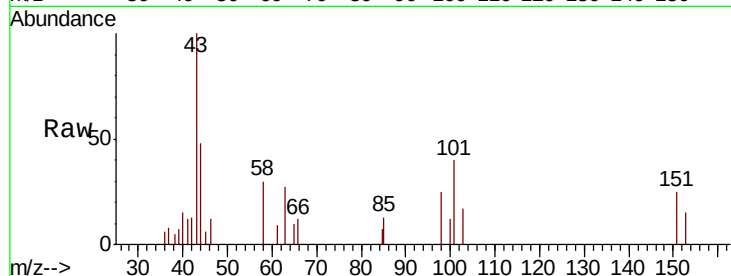
MDL-SOIL-01

Tot Ion: 43 Resp: 1988

Ion Ratio Lower Upper

43 100

58 54.9 0.0 59.4



#14

Carbon disulfide

Concen: 1.133 ug/L

RT: 4.40 min Scan# 409

Delta R.T. 0.00 min

Lab File: VW016586.D

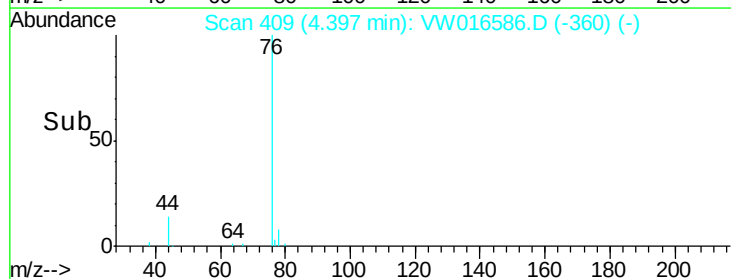
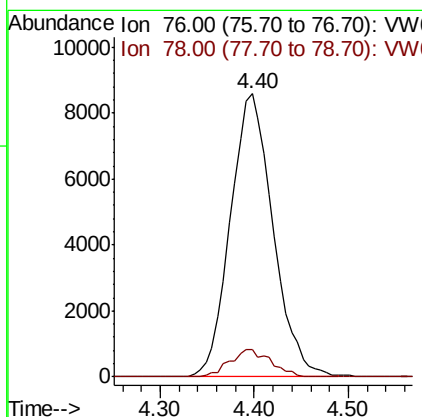
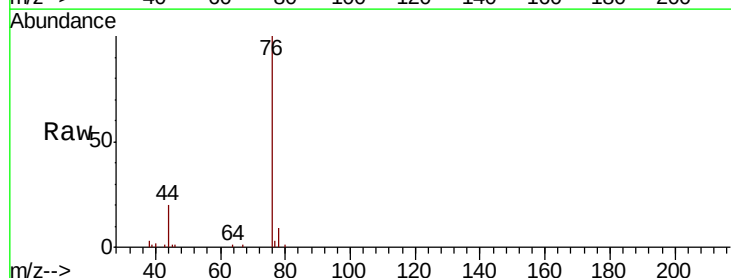
Acq: 18 Sep 2020 15:44

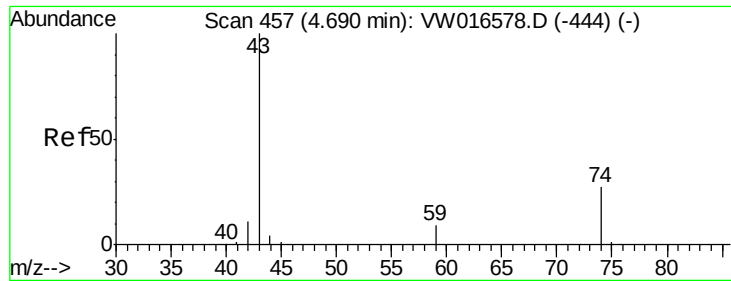
Tgt Ion: 76 Resp: 27154

Ion Ratio Lower Upper

76 100

78 9.5 7.3 10.9





#15

Methyl Acetate

Concen: 1.366 ug/L

RT: 4.70 min Scan# 458

Delta R.T. 0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampled :

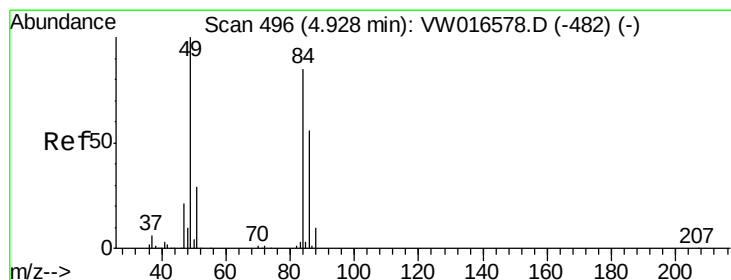
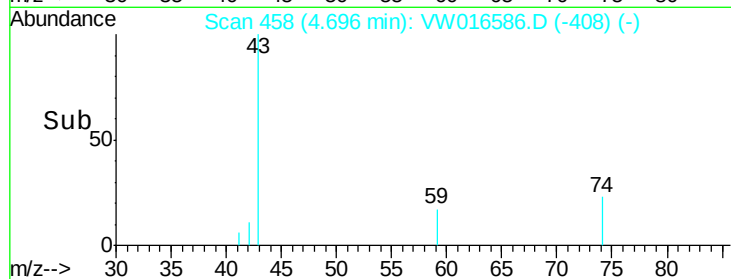
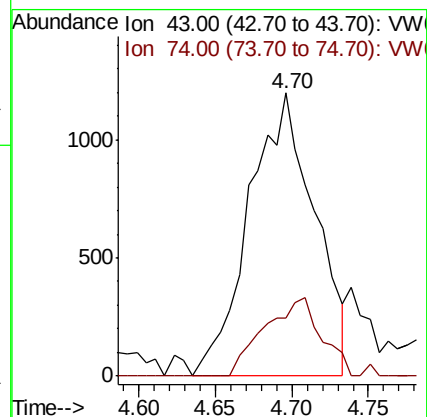
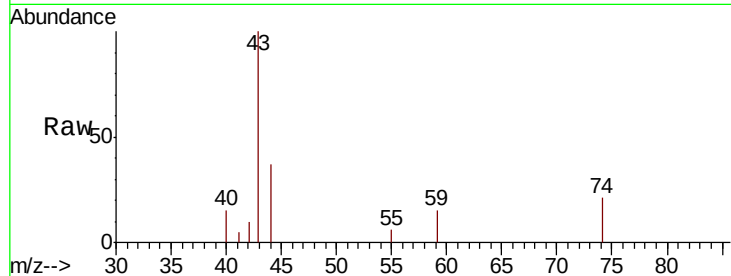
MDL-SOIL-01

Tot Ion: 43 Resp: 3576

Ion Ratio Lower Upper

43 100

74 23.9 21.9 32.9



#16

Methylene chloride

Concen: 3.024 ug/L

RT: 4.93 min Scan# 497

Delta R.T. 0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

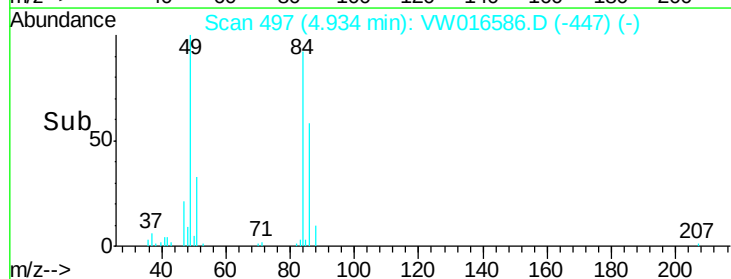
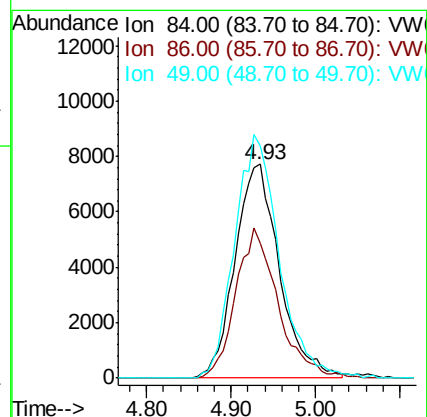
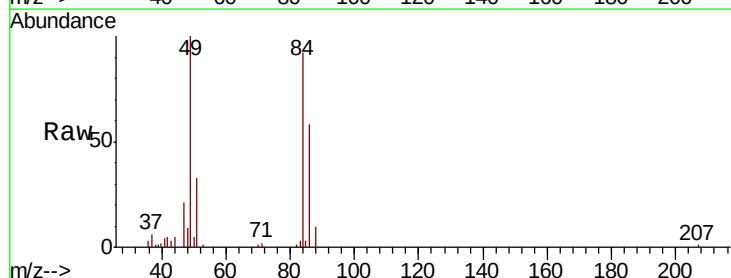
Tgt Ion: 84 Resp: 27734

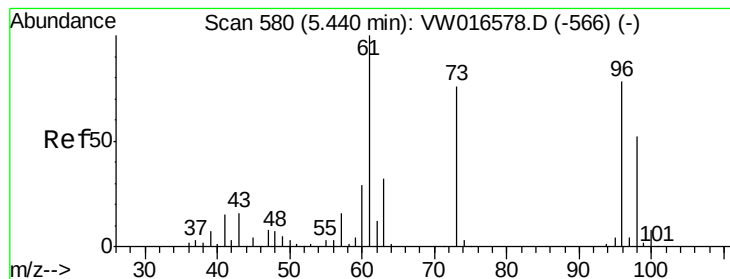
Ion Ratio Lower Upper

84 100

86 63.2 46.2 85.8

49 108.6 82.8 153.8





#17

trans-1,2-Dichloroethene

Concen: 1.141 ug/L

RT: 5.43 min Scan# 579

Delta R.T. -0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampled :

MDL-SOIL-01

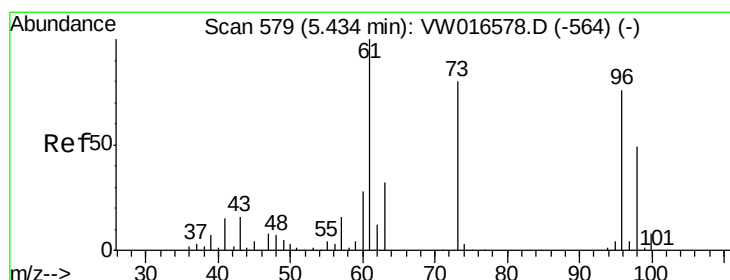
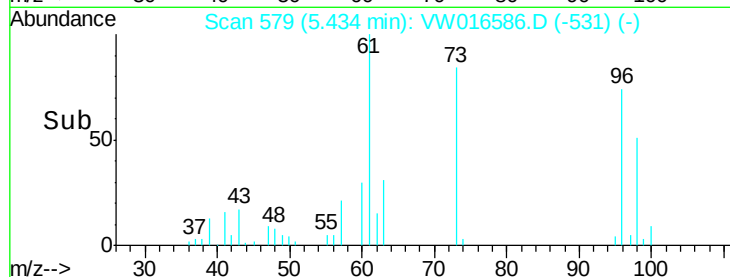
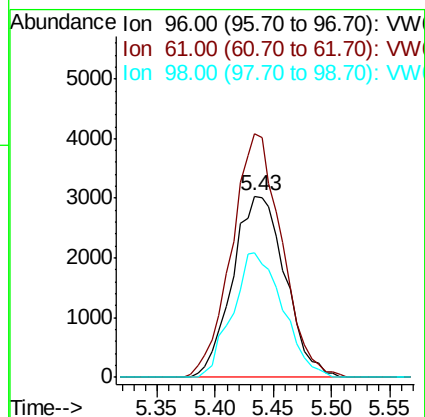
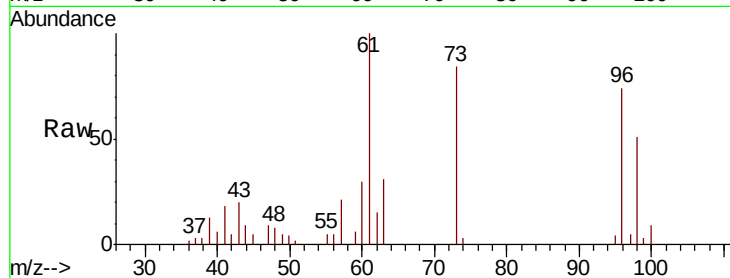
Tot Ion: 96 Resp: 9557

Ion Ratio Lower Upper

96 100

61 134.4 89.7 166.7

98 68.5 46.4 86.2



#18

Methyl tert-butyl Ether

Concen: 0.727 ug/L

RT: 5.43 min Scan# 578

Delta R.T. -0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

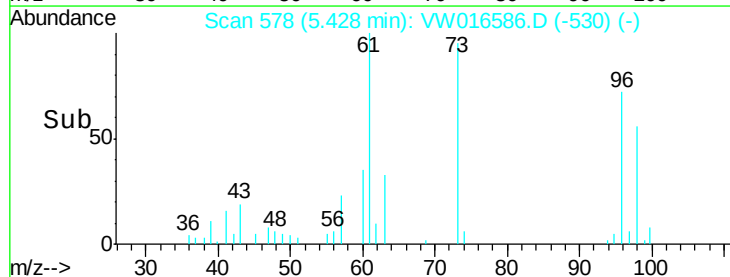
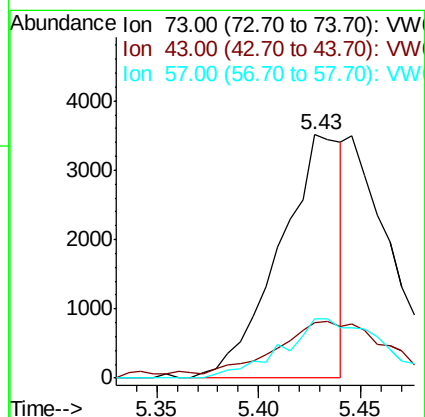
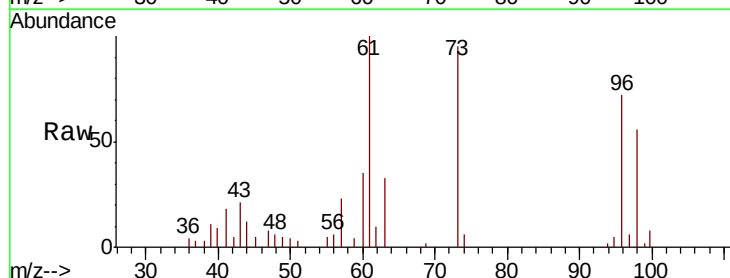
Tgt Ion: 73 Resp: 7480

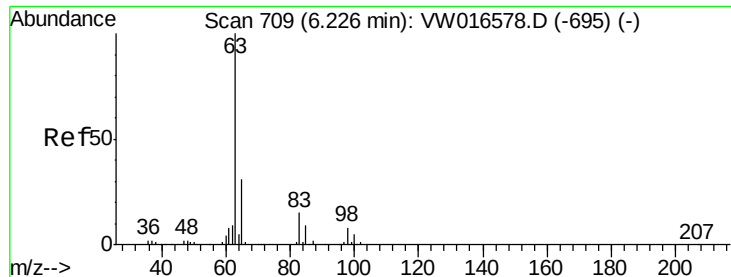
Ion Ratio Lower Upper

73 100

43 40.6 17.0 25.6#

57 23.2 16.3 24.5

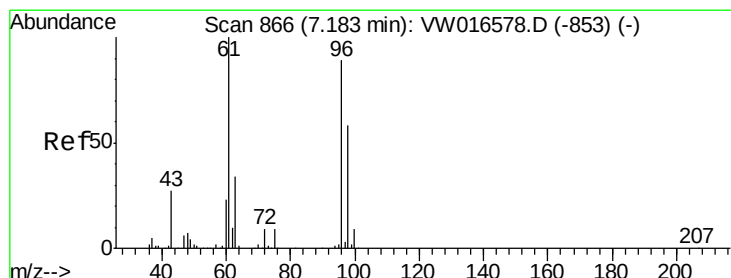
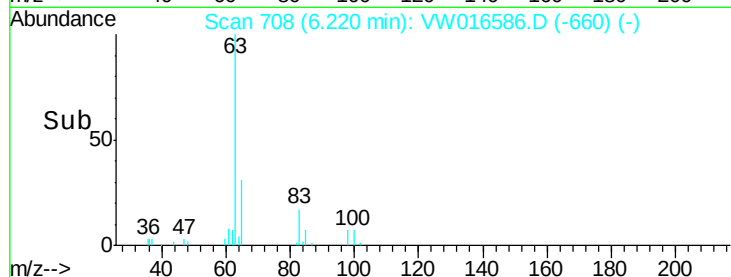
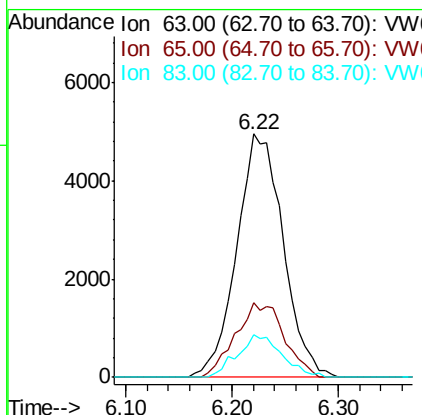
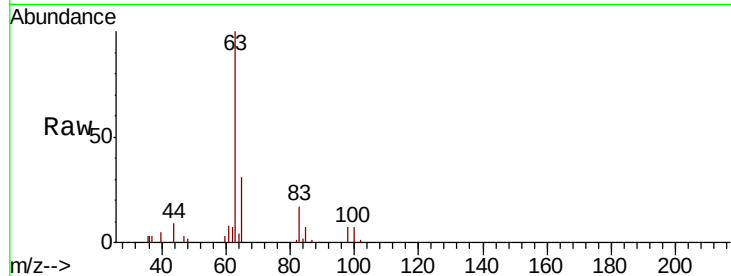




#19
 1,1-Dichloroethane
 Concen: 1.141 ug/L
 RT: 6.22 min Scan# 708
 Delta R.T. -0.01 min
 Lab File: VW016586.D
 Acq: 18 Sep 2020 15:44

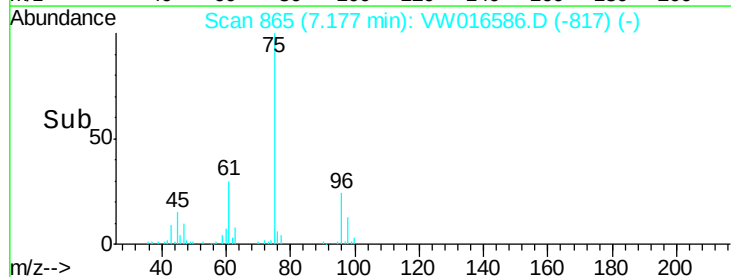
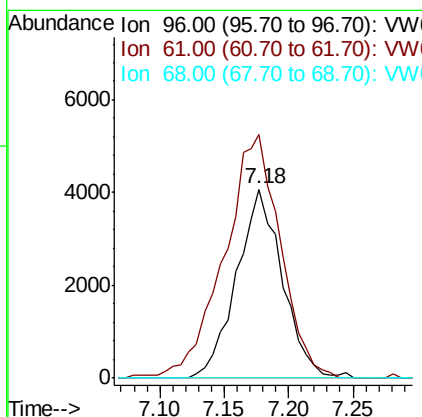
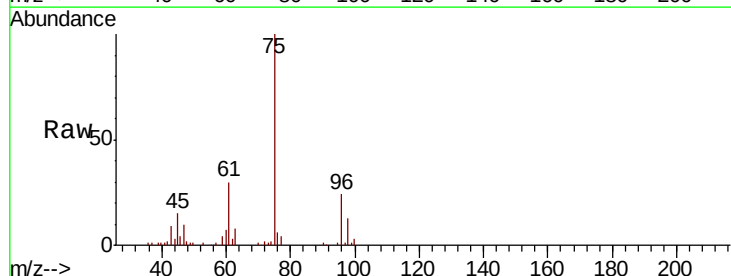
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-01

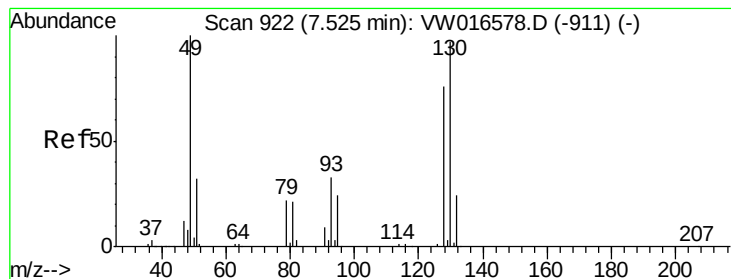
Tot Ion	Ratio	Lower	Upper
63	100		
65	30.5	21.8	40.6
83	17.5	10.2	19.0



#20
 cis-1,2-Dichloroethene
 Concen: 1.148 ug/L
 RT: 7.18 min Scan# 865
 Delta R.T. -0.01 min
 Lab File: VW016586.D
 Acq: 18 Sep 2020 15:44

Tgt Ion	Ratio	Lower	Upper
96	100		
61	129.0	79.2	147.0
68	0.0	0.0	0.0





#23

Bromochloromethane

Concen: 1.153 ug/L

RT: 7.52 min Scan# 922

Delta R.T. 0.00 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-01

Tot Ion:128 Resp: 4719

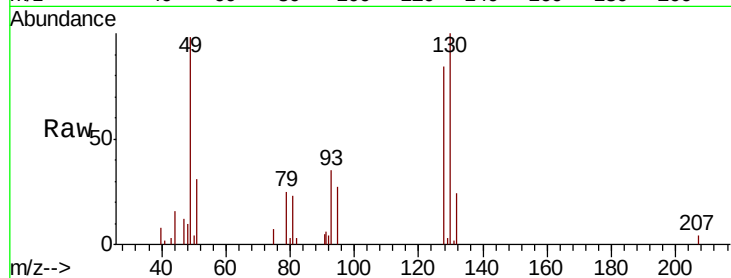
Ion Ratio Lower Upper

128 100

49 116.9 91.5 169.9

130 119.1 89.0 165.4

51 36.4 33.0 49.6

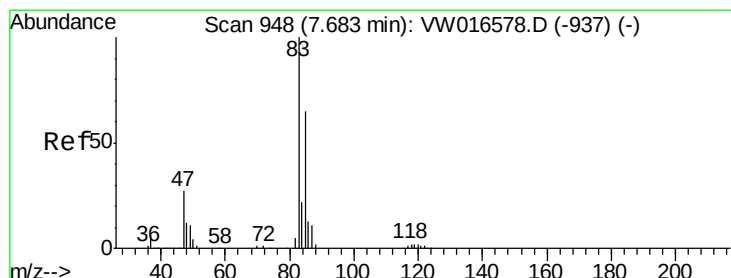
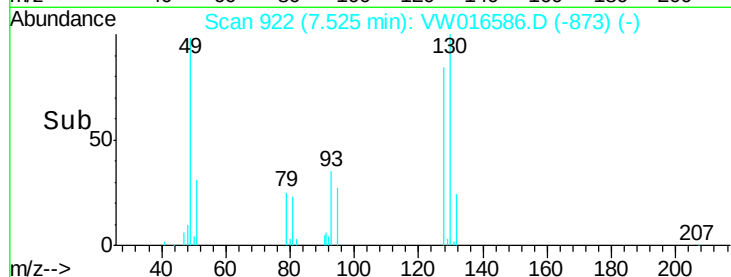
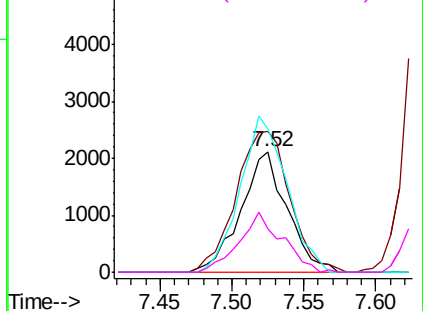


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW



#25

Chloroform

Concen: 1.229 ug/L

RT: 7.68 min Scan# 947

Delta R.T. -0.01 min

Lab File: VW016586.D

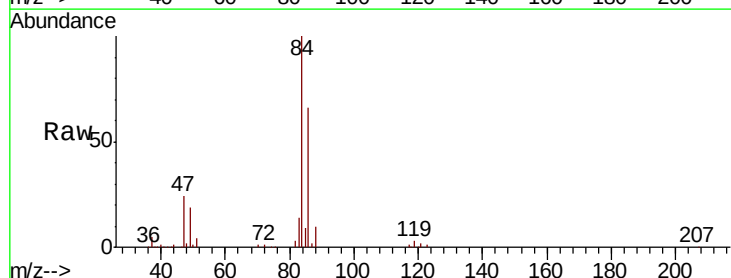
Acq: 18 Sep 2020 15:44

Tgt Ion: 83 Resp: 17832

Ion Ratio Lower Upper

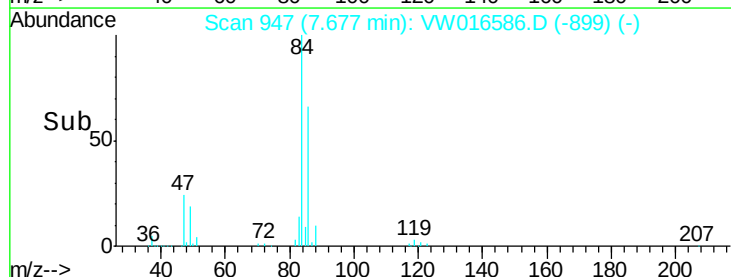
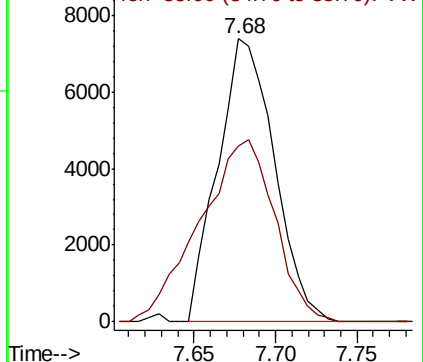
83 100

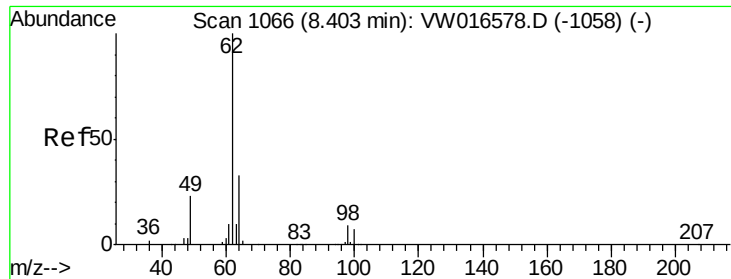
85 62.3 45.4 84.4



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

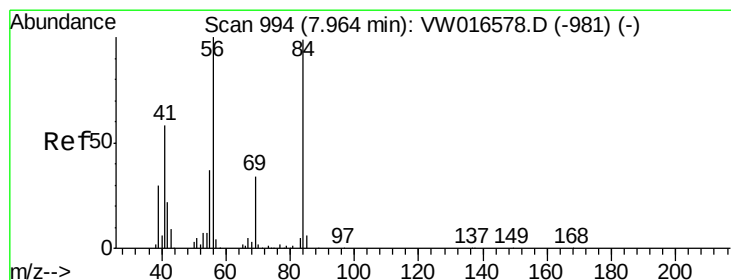
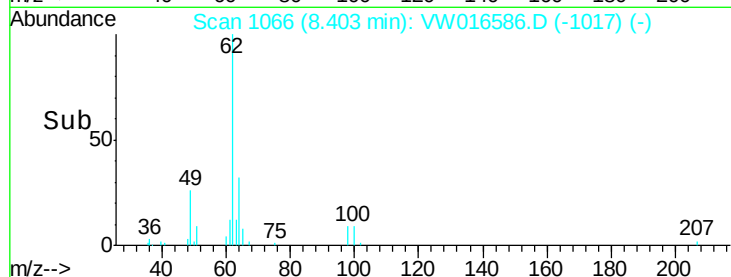
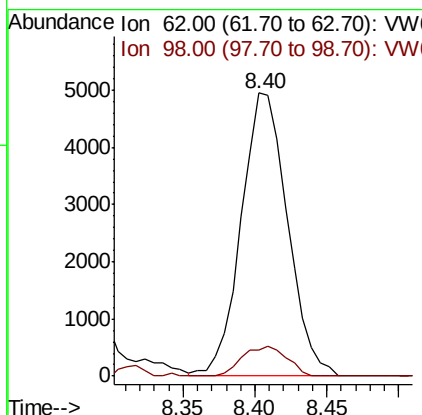
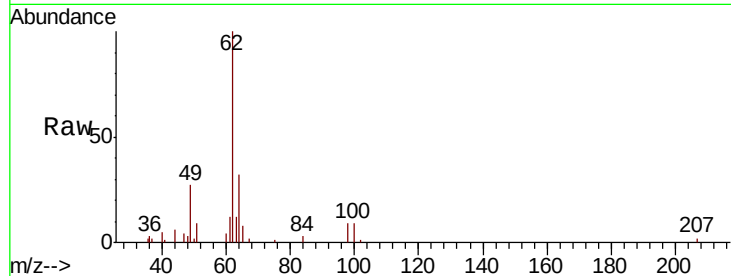




#27
 1,2-Dichloroethane
 Concen: 1.226 ug/L
 RT: 8.40 min Scan# 1066
 Delta R.T. 0.00 min
 Lab File: VW016586.D
 Acq: 18 Sep 2020 15:44

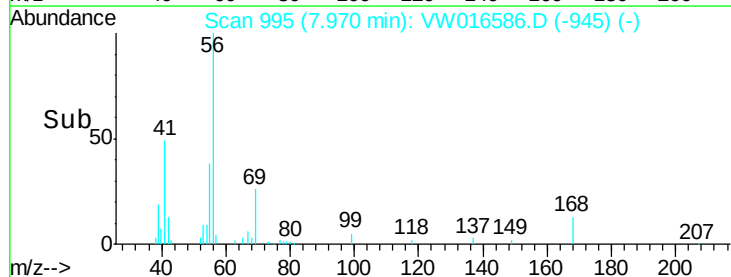
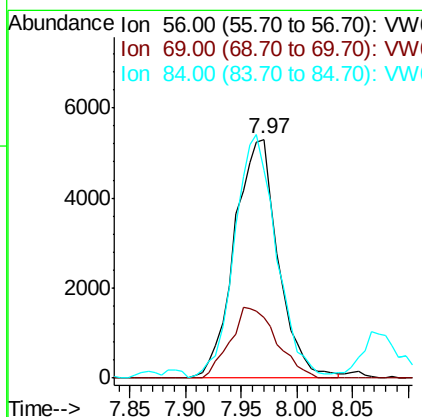
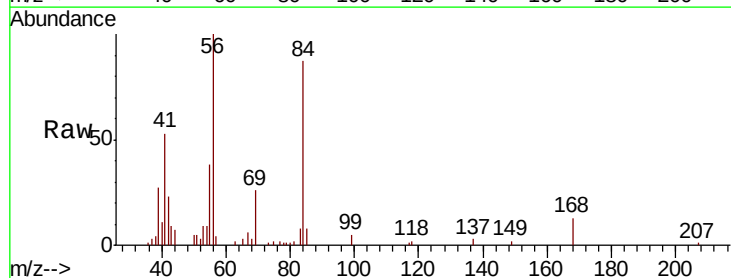
Instrument :
 MSVOA_W
 ClientSampled :
 MDL-SOIL-01

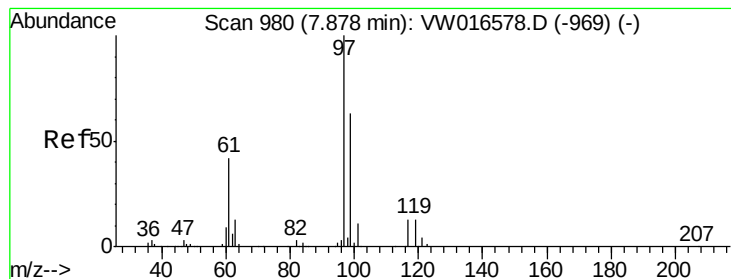
Tot Ion: 62 Resp: 11045
 Ion Ratio Lower Upper
 62 100
 98 9.3 7.3 10.9



#29
 Cyclohexane
 Concen: 1.161 ug/L
 RT: 7.97 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VW016586.D
 Acq: 18 Sep 2020 15:44

Tgt Ion: 56 Resp: 14409
 Ion Ratio Lower Upper
 56 100
 69 31.5 26.4 39.6
 84 98.2 79.9 119.9





#30

1,1,1-Trichloroethane

Concen: 1.121 ug/L

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-01

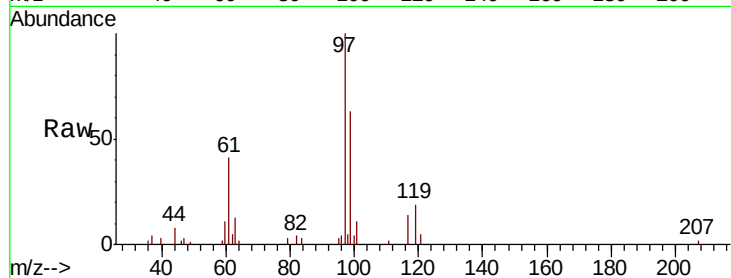
Tot Ion: 97 Resp: 14850

Ion Ratio Lower Upper

97 100

99 66.2 50.9 76.3

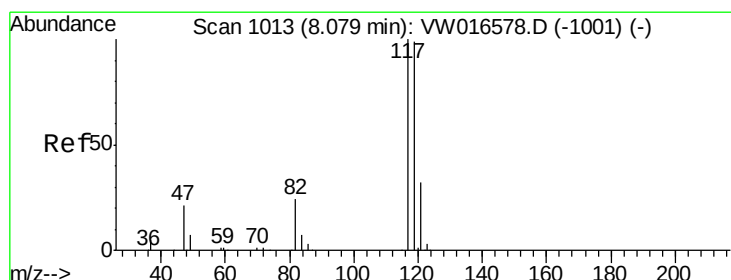
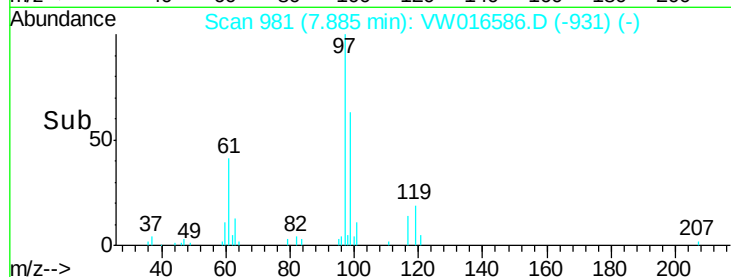
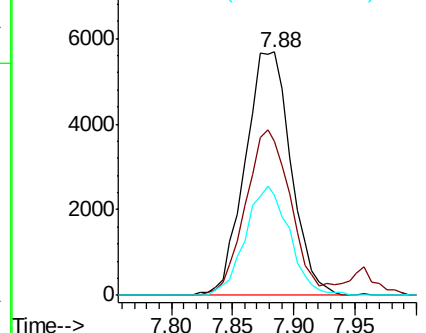
61 42.7 33.2 49.8



Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.05 (60.75 to 61.75): VW



#31

Carbon tetrachloride

Concen: 1.090 ug/L

RT: 8.08 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VW016586.D

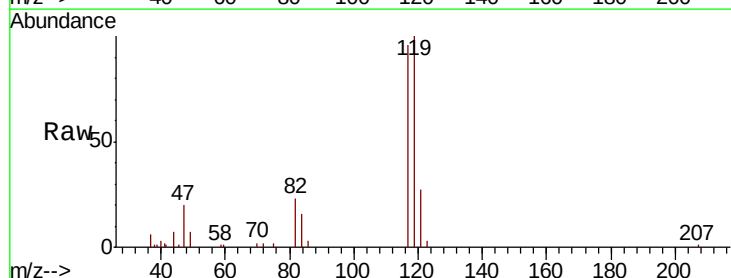
Acq: 18 Sep 2020 15:44

Tgt Ion: 117 Resp: 14058

Ion Ratio Lower Upper

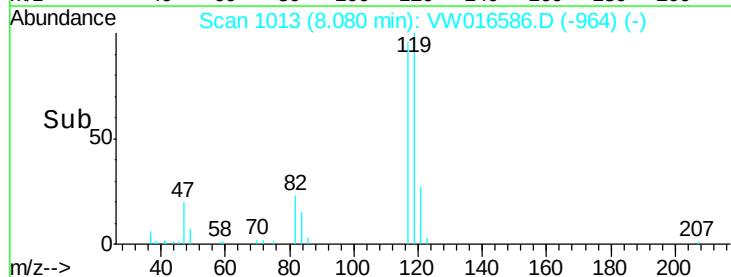
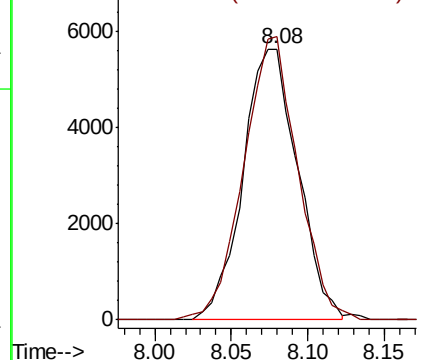
117 100

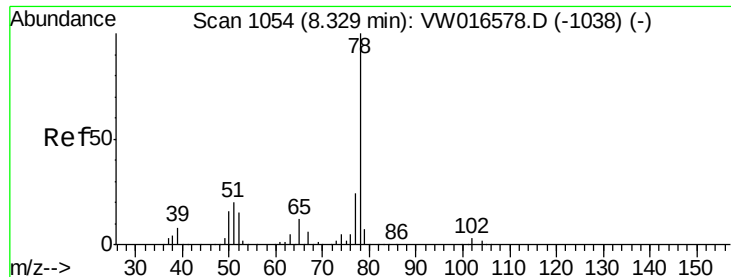
119 103.0 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

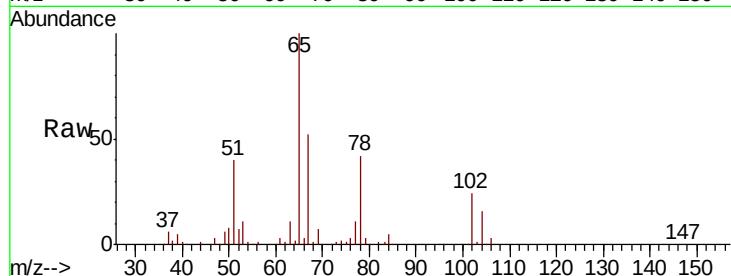




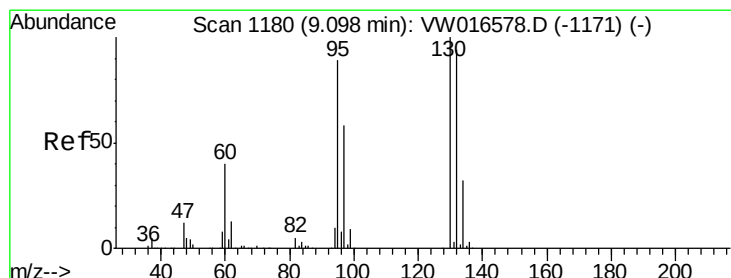
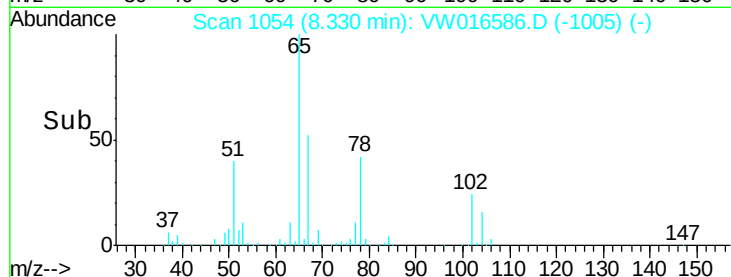
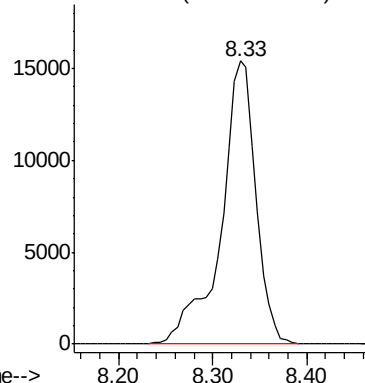
#33
Benzene
Concen: 1.298 ug/L
RT: 8.33 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VW016586.D
Acq: 18 Sep 2020 15:44

Tgt Ion: 78 Resp: 39967

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-01



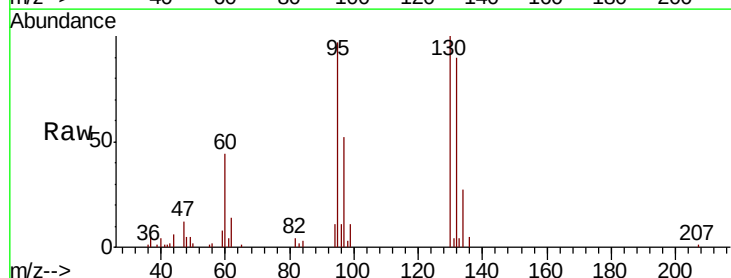
Abundance Ion 78.00 (77.70 to 78.70): VW



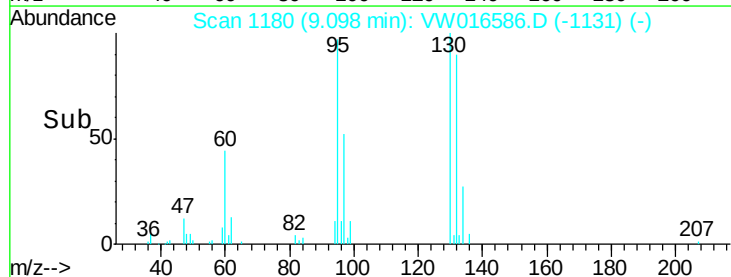
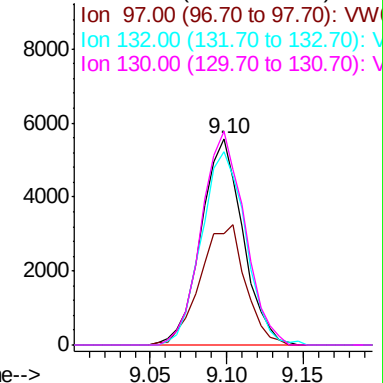
#34
Trichloroethene
Concen: 1.198 ug/L
RT: 9.10 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VW016586.D
Acq: 18 Sep 2020 15:44

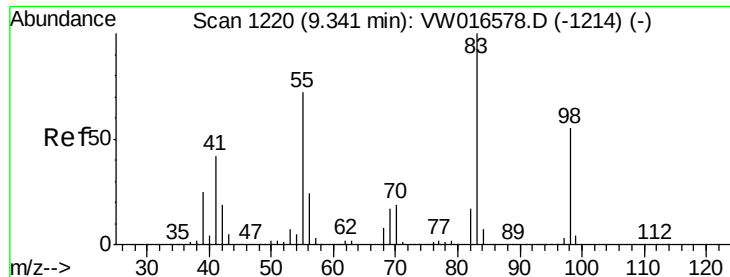
Tgt Ion: 95 Resp: 10586

Ion	Ratio	Lower	Upper
95	100		
97	53.8	45.1	83.9
132	97.3	73.8	137.2
130	103.4	78.3	145.5



Abundance Ion 95.00 (94.70 to 95.70): VW

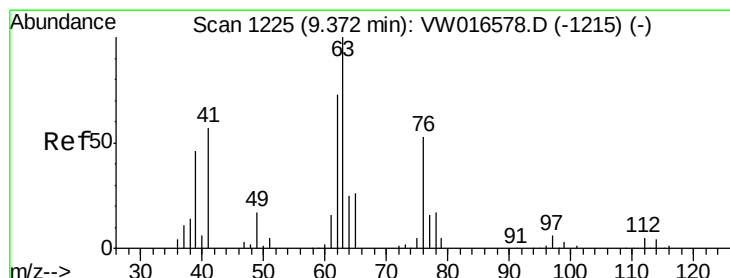
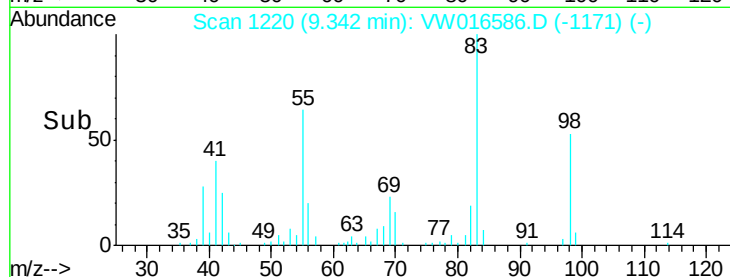
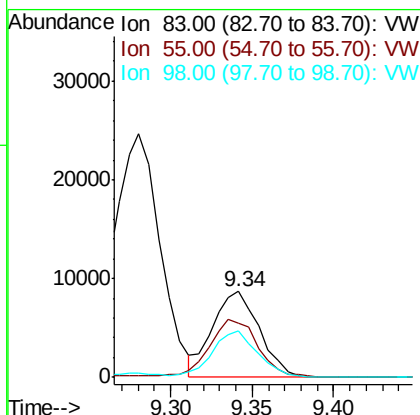
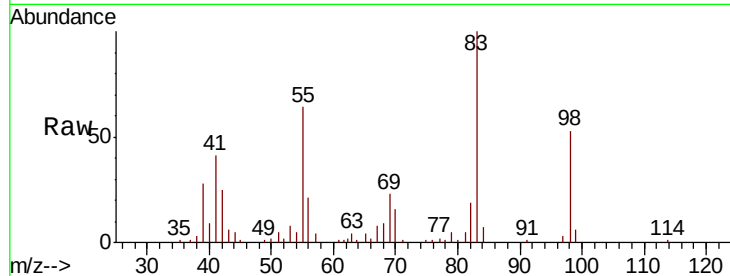




#35
Methylcyclohexane
Concen: 1.179 ug/L
RT: 9.34 min Scan# 1220
Delta R.T. 0.00 min
Lab File: VW016586.D
Acq: 18 Sep 2020 15:44

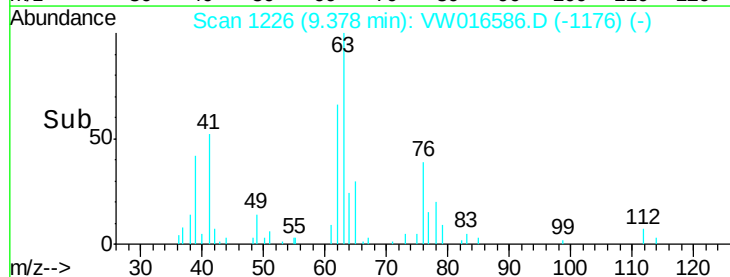
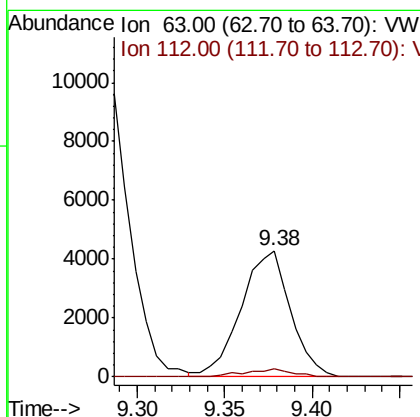
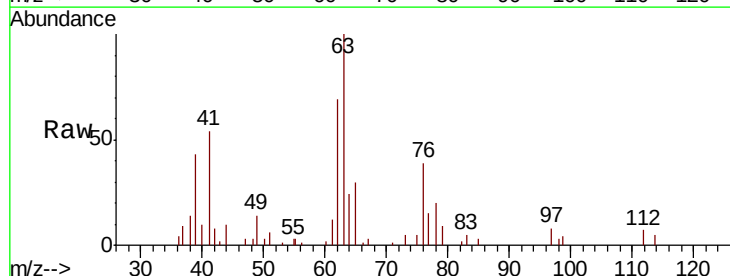
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-01

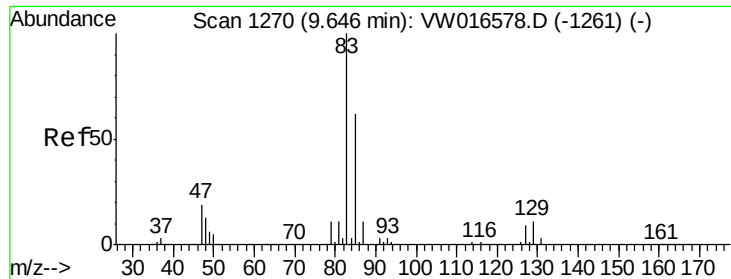
Tot Ion: 83 Resp: 17403
Ion Ratio Lower Upper
83 100
55 70.4 55.9 83.9
98 52.2 41.5 62.3



#37
1,2-Dichloropropane
Concen: 1.202 ug/L
RT: 9.38 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VW016586.D
Acq: 18 Sep 2020 15:44

Tgt Ion: 63 Resp: 8437
Ion Ratio Lower Upper
63 100
112 5.9 4.2 6.4





#38

Bromodichloromethane

Concen: 1.170 ug/L

RT: 9.65 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampled :

MDL-SOIL-01

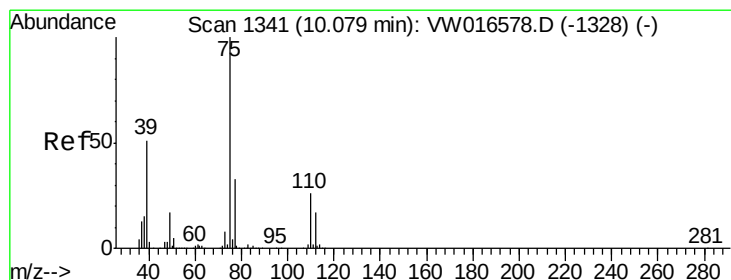
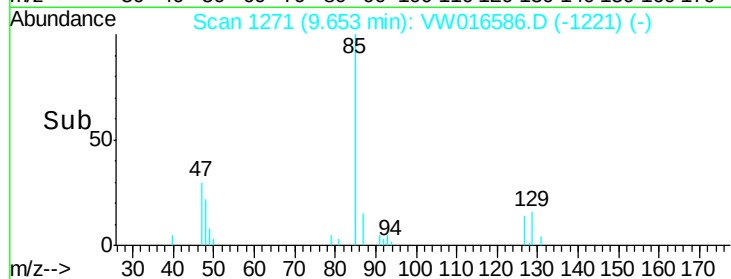
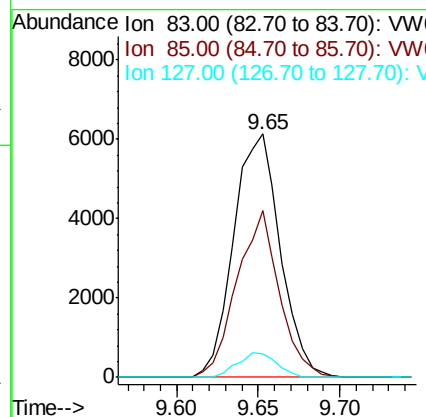
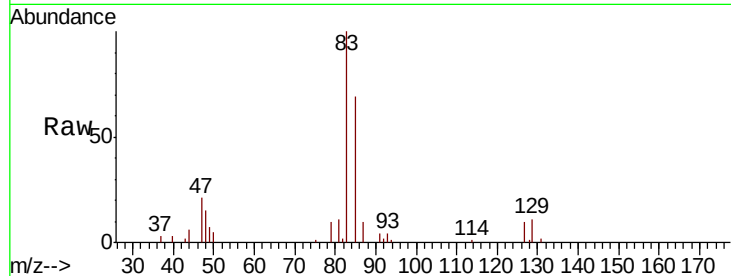
Tot Ion: 83 Resp: 12180

Ion Ratio Lower Upper

83 100

85 68.8 43.7 81.1

127 9.7 7.4 11.2



#39

cis-1,3-Dichloropropene

Concen: 1.143 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.01 min

Lab File: VW016586.D

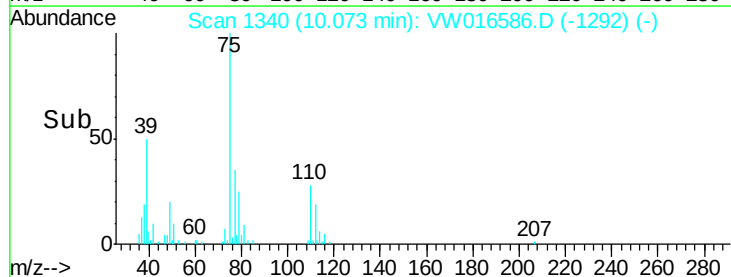
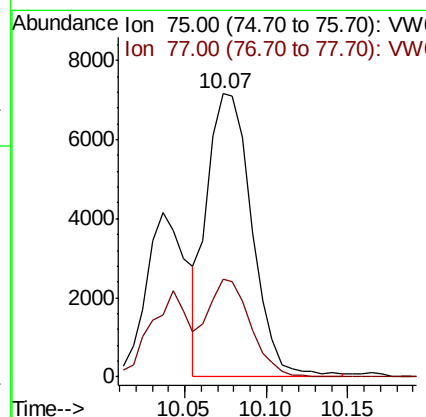
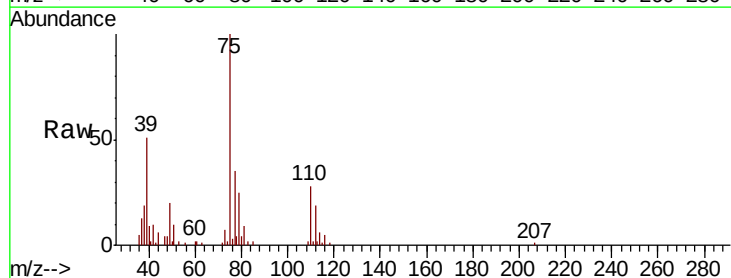
Acq: 18 Sep 2020 15:44

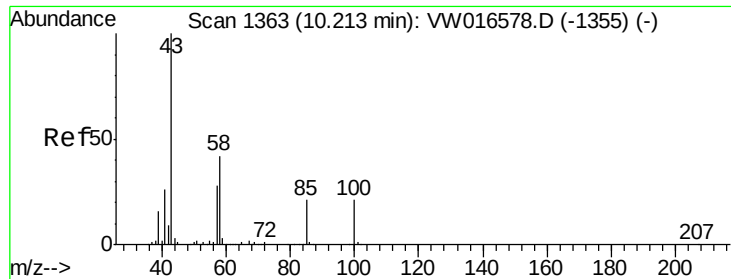
Tgt Ion: 75 Resp: 13705

Ion Ratio Lower Upper

75 100

77 34.7 23.0 42.6

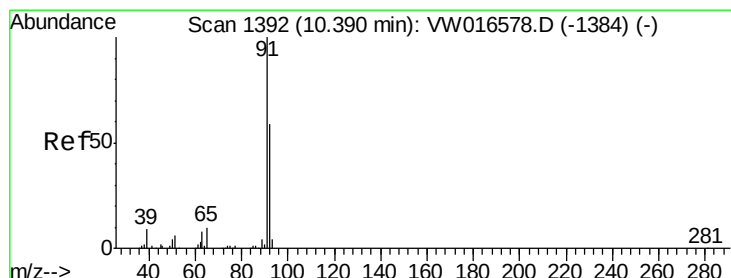
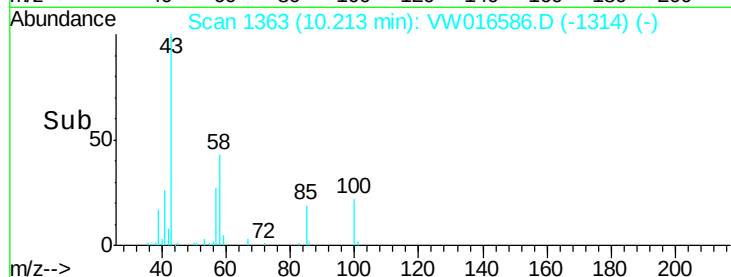
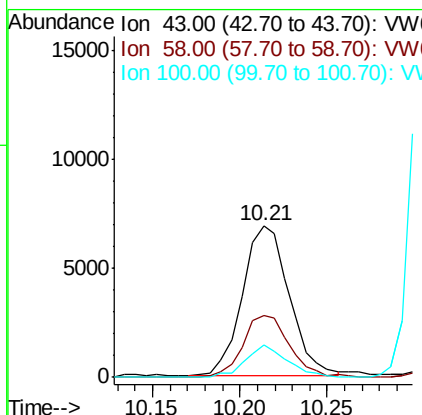
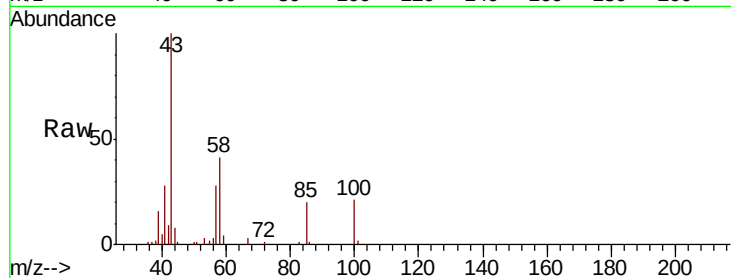




#40
4-Methyl-2-pentanone
Concen: 3.262 ug/L
RT: 10.21 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VW016586.D
Acq: 18 Sep 2020 15:44

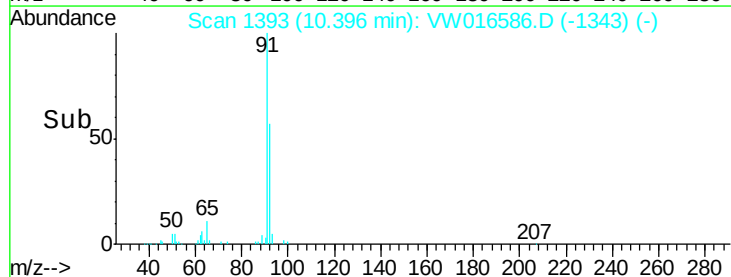
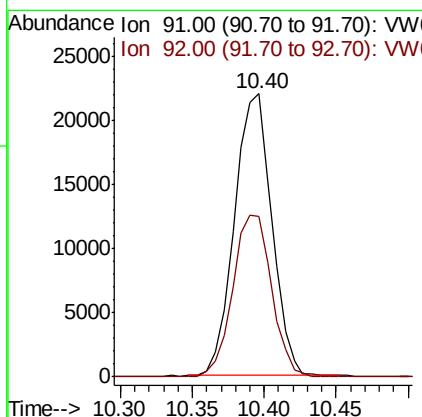
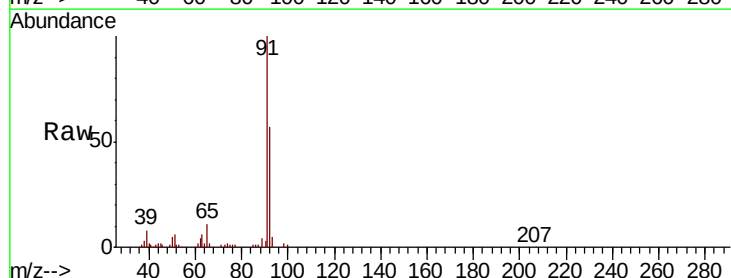
Instrument :
MSVOA_W
ClientSampled :
MDL-SOIL-01

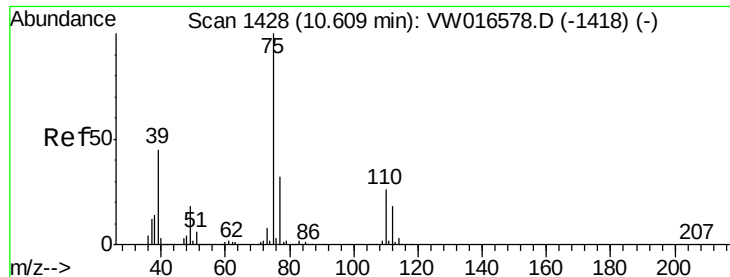
Tot Ion	43	Resp	12833
Ion Ratio	Lower	Upper	
43	100		
58	40.5	33.0	49.4
100	19.4	16.0	24.0



#42
Toluene
Concen: 1.145 ug/L
RT: 10.40 min Scan# 1393
Delta R.T. 0.01 min
Lab File: VW016586.D
Acq: 18 Sep 2020 15:44

Tgt Ion	91	Resp	39723
Ion Ratio	Lower	Upper	
91	100		
92	56.7	41.1	76.3





#44

trans-1,3-Dichloropropene

Concen: 1.646 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampled :

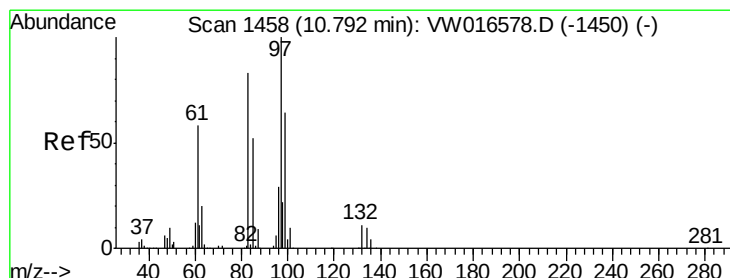
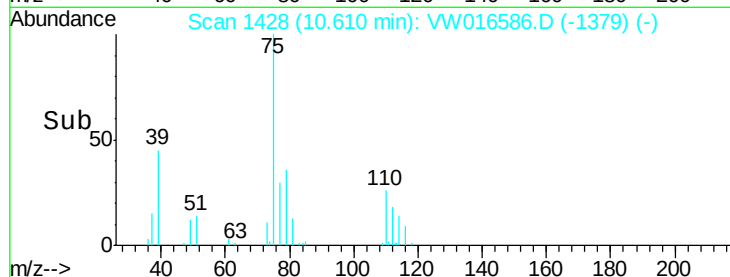
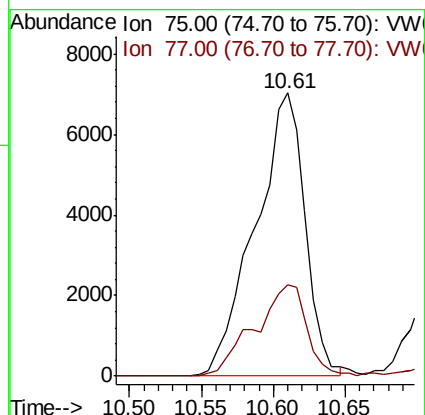
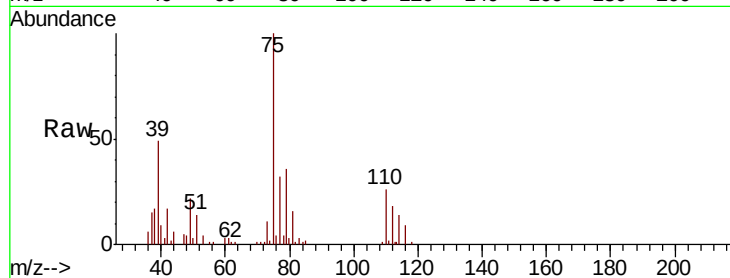
MDL-SOIL-01

Tot Ion: 75 Resp: 16925

Ion Ratio Lower Upper

75 100

77 32.1 22.1 41.1



#45

1,1,2-Trichloroethane

Concen: 1.228 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Tgt Ion: 97 Resp: 7002

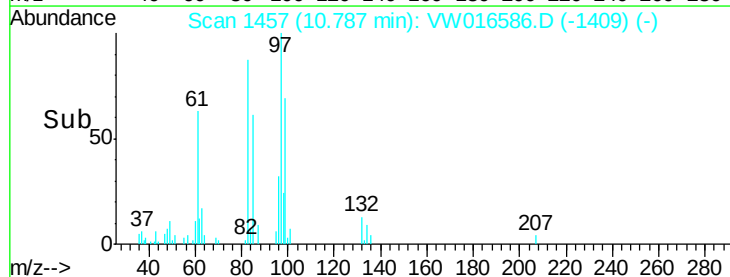
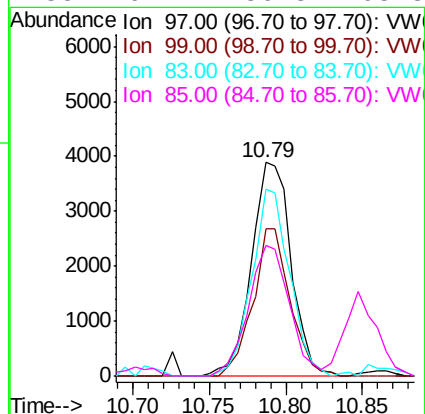
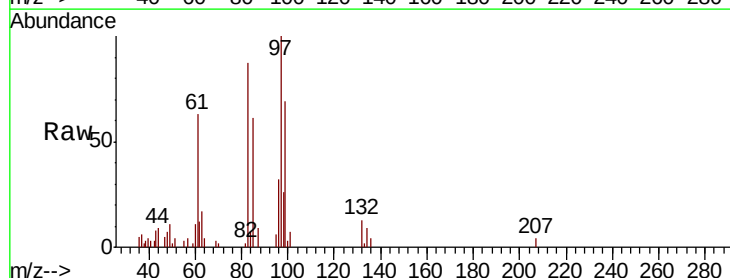
Ion Ratio Lower Upper

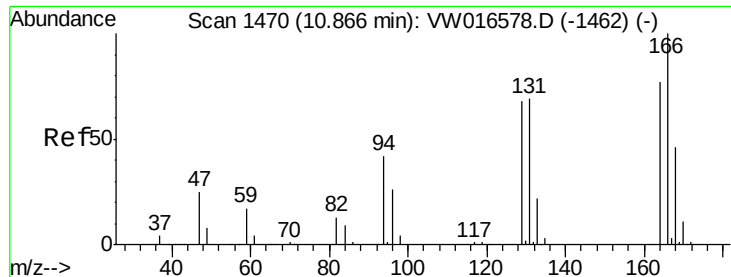
97 100

99 69.2 44.5 82.7

83 87.4 58.4 108.4

85 61.2 36.8 68.3





#46

Tetrachloroethene

Concen: 1.229 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-01

Tot Ion:164 Resp: 9794

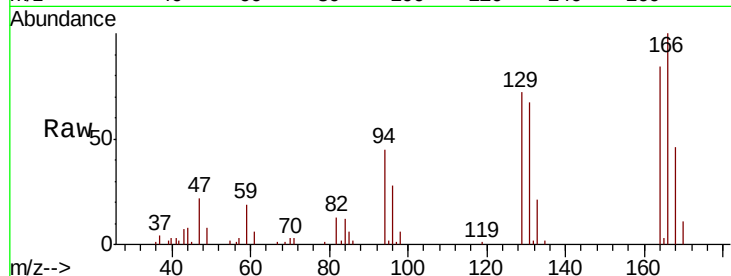
Ion Ratio Lower Upper

164 100

129 85.8 61.4 114.0

131 80.2 62.8 116.6

166 119.5 90.8 168.6

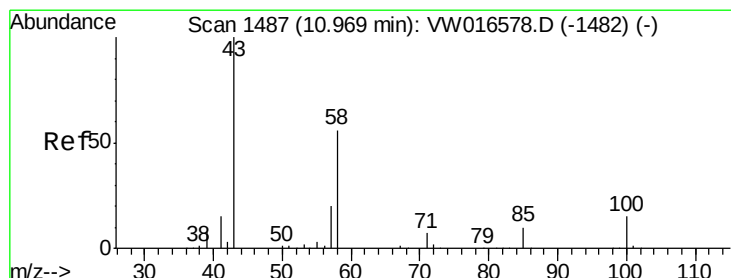
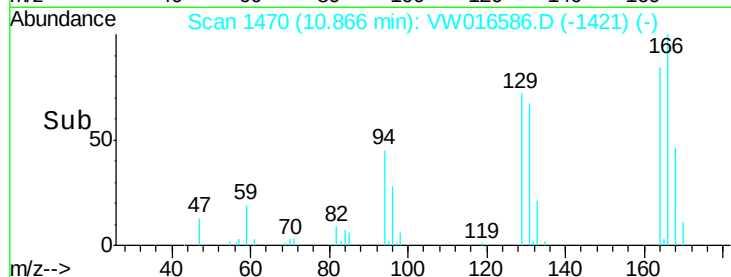
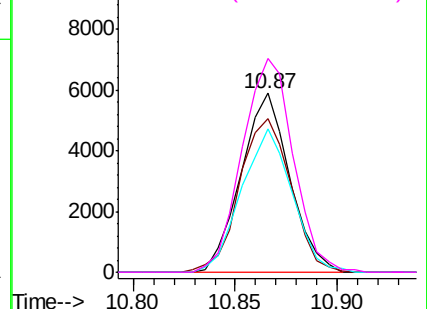


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 2.596 ug/L

RT: 10.98 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Tgt Ion: 43 Resp: 6351

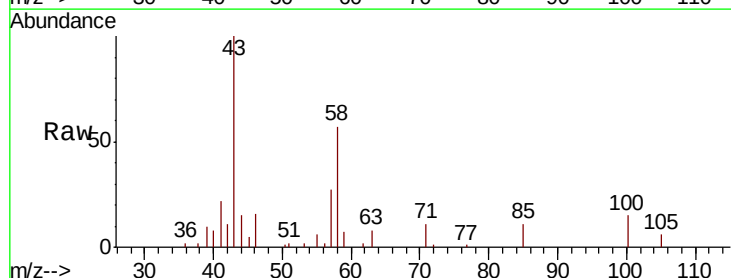
Ion Ratio Lower Upper

43 100

58 62.7 45.9 68.9

57 22.5 16.6 24.8

100 16.3 12.3 18.5

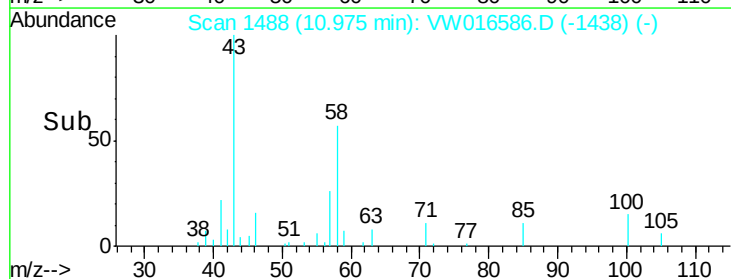
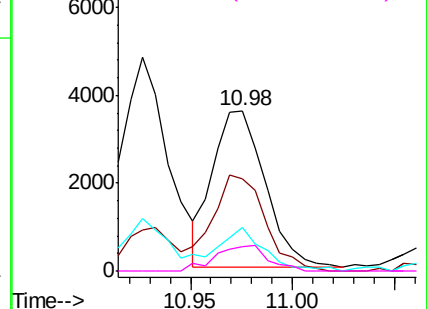


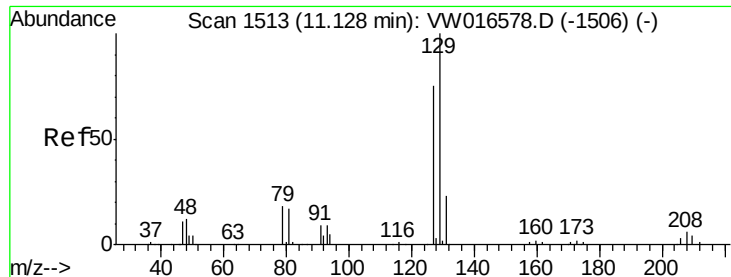
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW





#49

Dibromochloromethane

Concen: 1.193 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampleId :

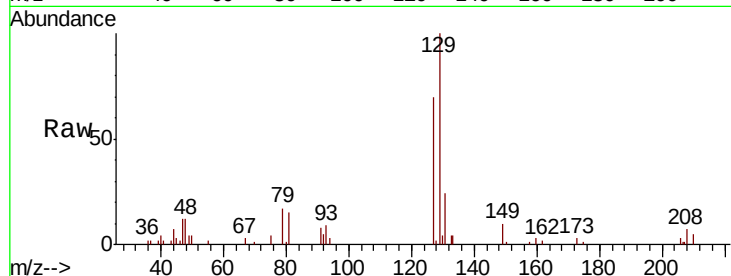
MDL-SOIL-01

Tot Ion:129 Resp: 8933

Ion Ratio Lower Upper

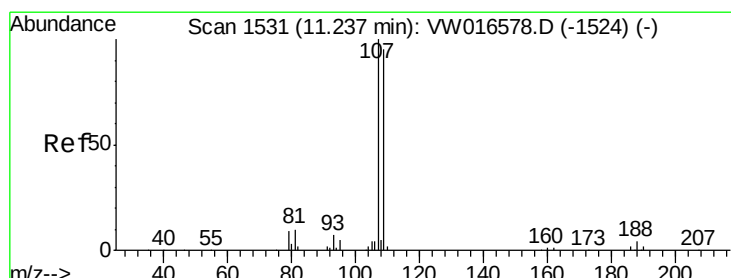
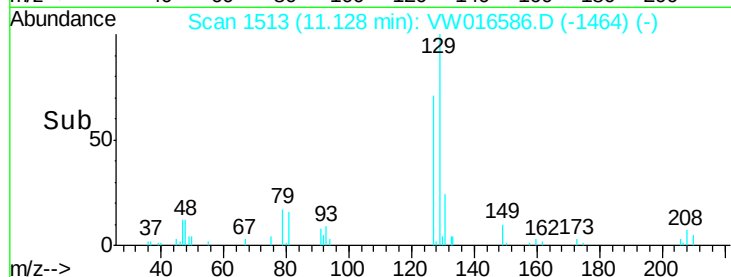
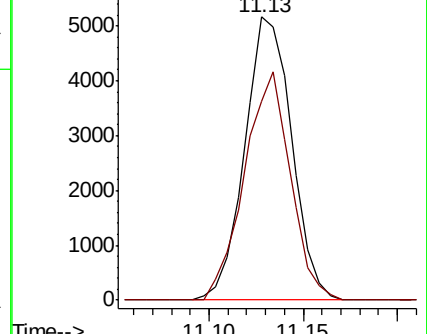
129 100

127 70.4 52.5 97.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 1.281 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

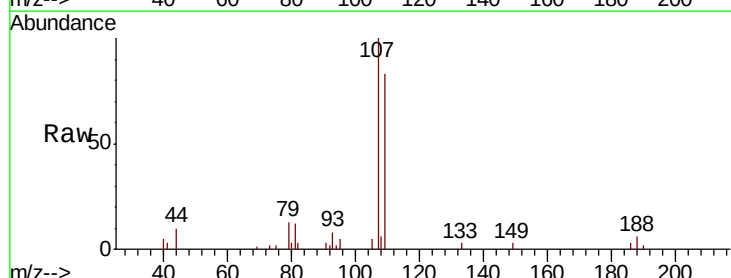
Tgt Ion:107 Resp: 7234

Ion Ratio Lower Upper

107 100

109 82.6 66.2 123.0

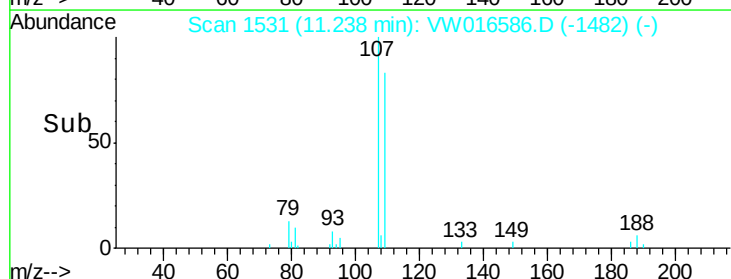
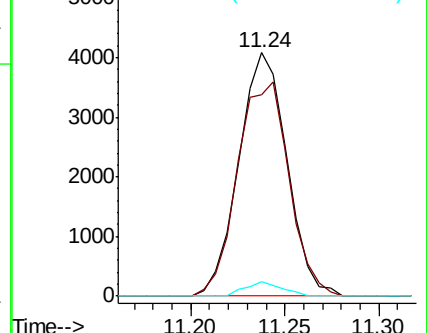
188 5.8 3.3 4.9#

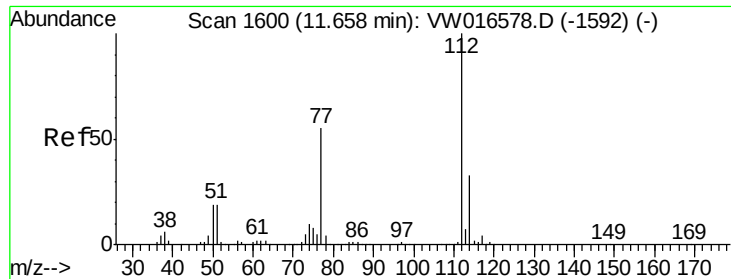


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#51

Chlorobenzene

Concen: 1.156 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-01

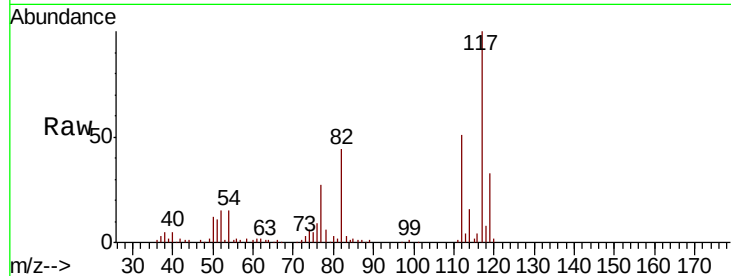
Tot Ion:112 Resp: 26600

Ion Ratio Lower Upper

112 100

114 30.9 22.9 42.5

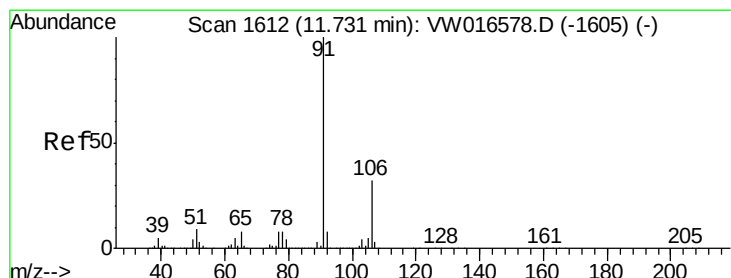
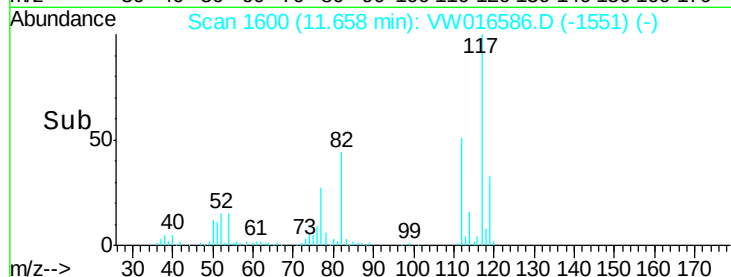
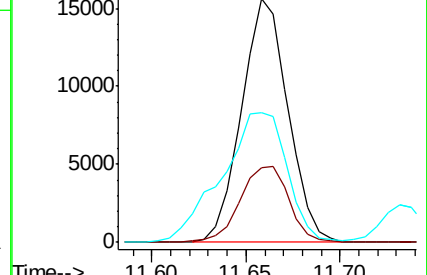
77 53.5 43.8 65.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 1.152 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW016586.D

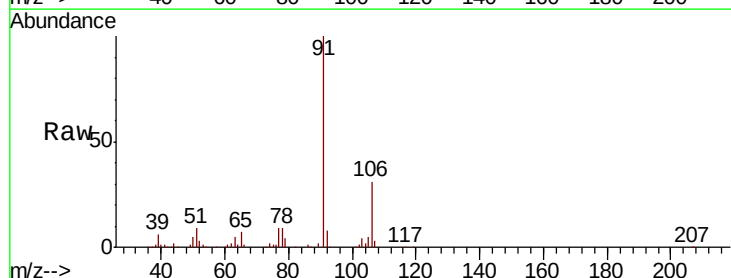
Acq: 18 Sep 2020 15:44

Tgt Ion: 91 Resp: 45002

Ion Ratio Lower Upper

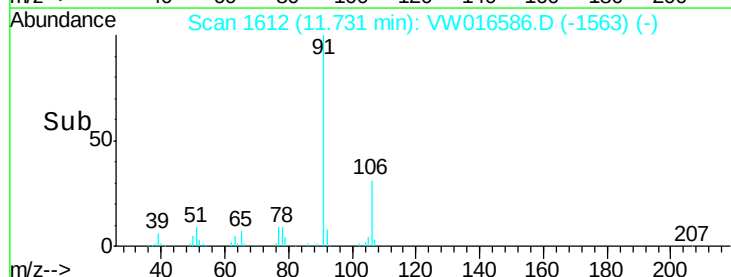
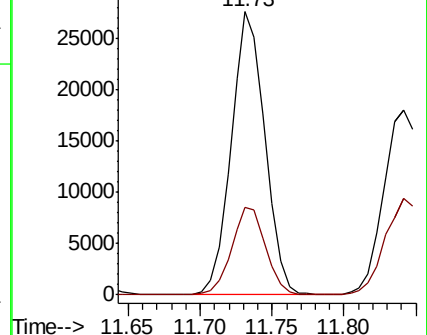
91 100

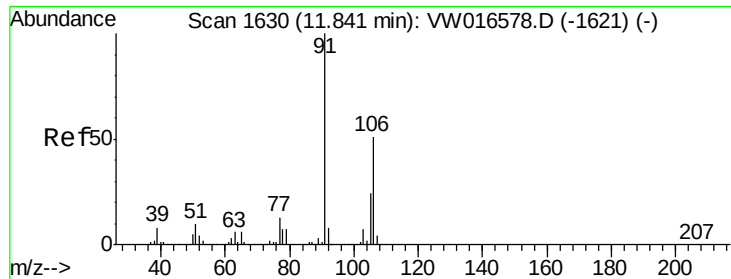
106 31.1 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

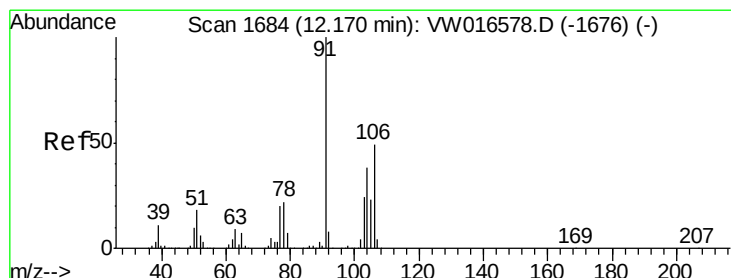
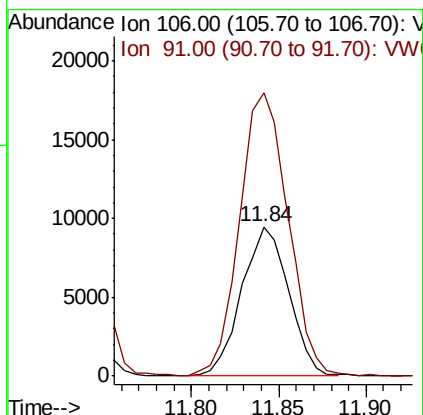
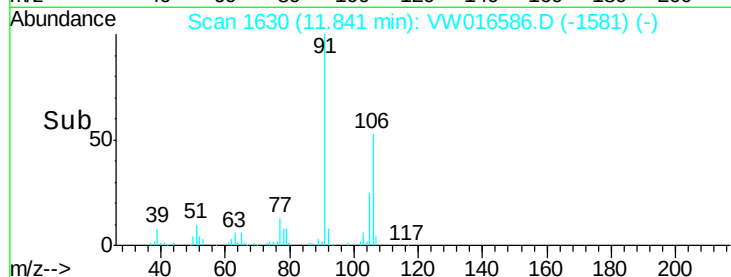
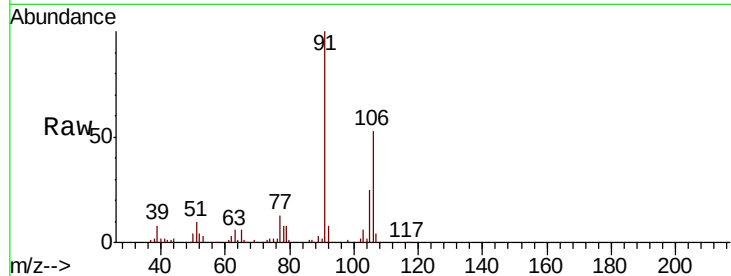




#53
m,p-Xylene
Concen: 1.169 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW016586.D
Acq: 18 Sep 2020 15:44

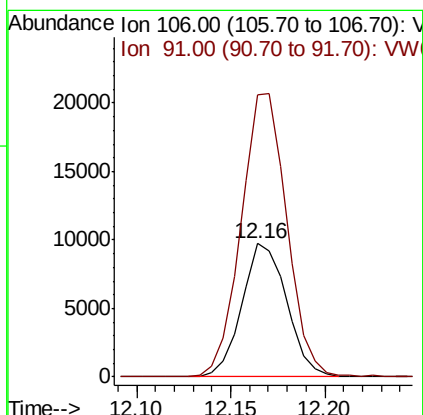
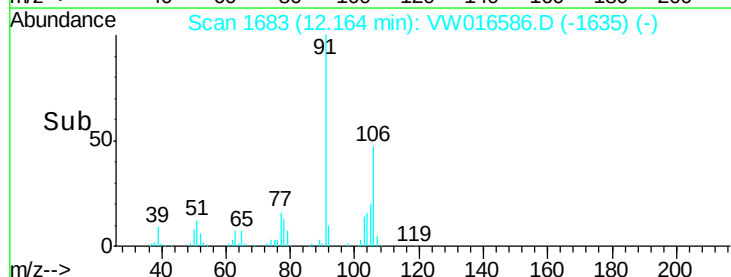
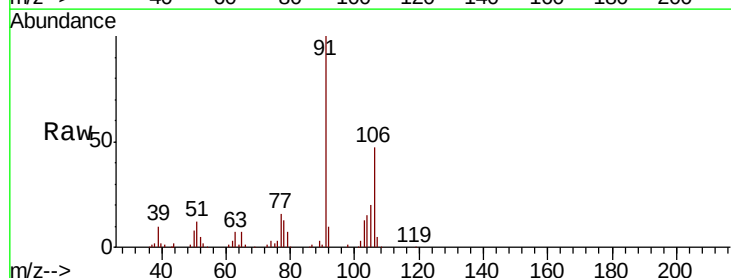
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-01

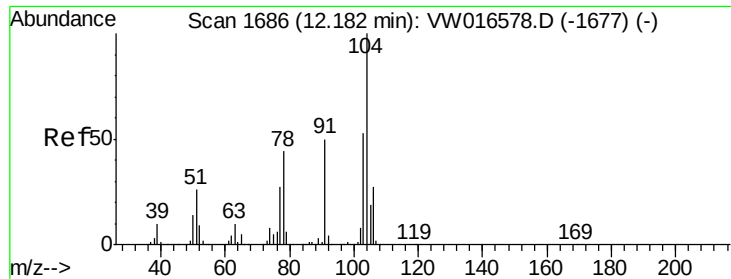
Tot Ion:106 Resp: 17783
Ion Ratio Lower Upper
106 100
91 189.9 136.2 252.9



#54
o-Xylene
Concen: 1.115 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW016586.D
Acq: 18 Sep 2020 15:44

Tgt Ion:106 Resp: 16054
Ion Ratio Lower Upper
106 100
91 211.7 143.4 266.2





#55

Stvrene

Concen: 1.105 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampled :

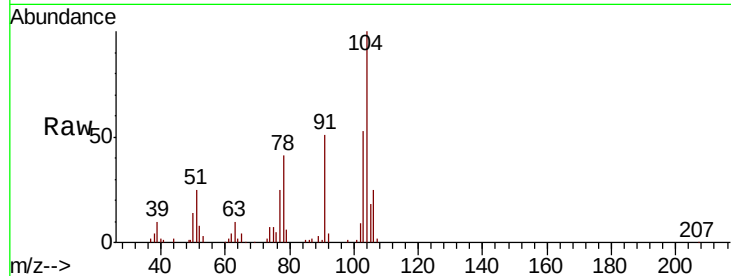
MDL-SOIL-01

Tot Ion:104 Resp: 26501

Ion Ratio Lower Upper

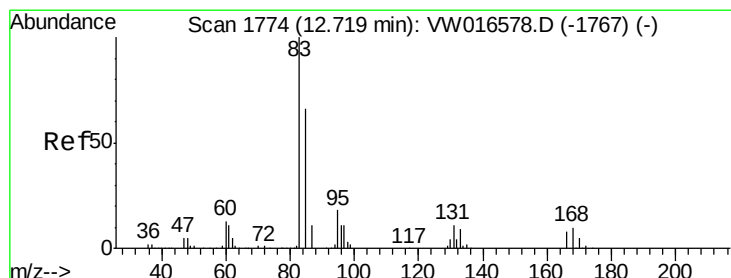
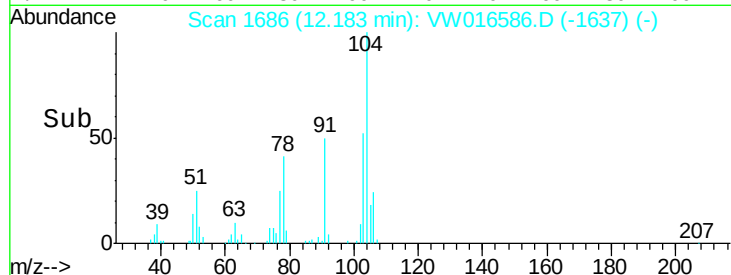
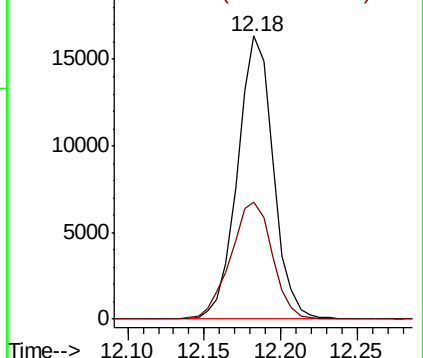
104 100

78 41.1 31.1 57.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#57

1,1,2,2-Tetrachloroethane

Concen: 1.419 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

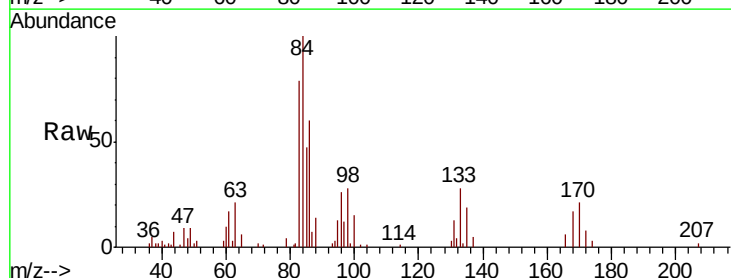
Tgt Ion: 83 Resp: 8713

Ion Ratio Lower Upper

83 100

85 59.4 46.3 85.9

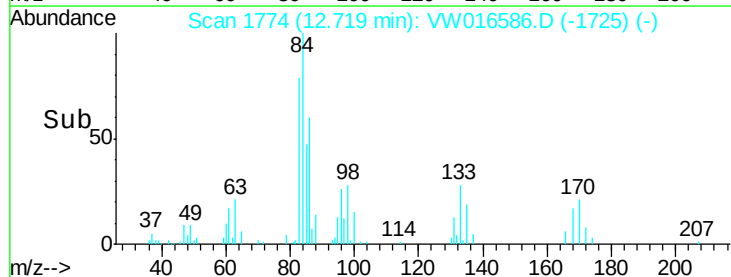
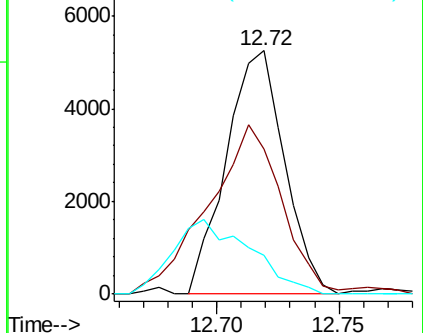
131 16.0 9.3 13.9#

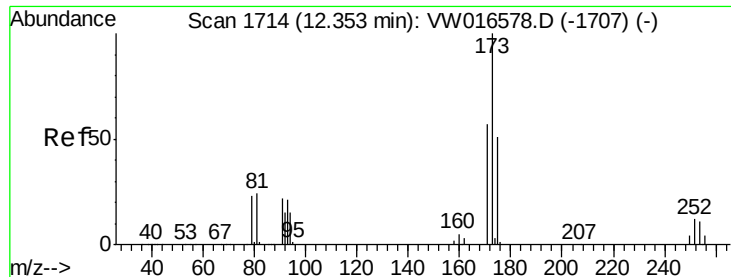


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

Bromoform

Concen: 1.087 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-01

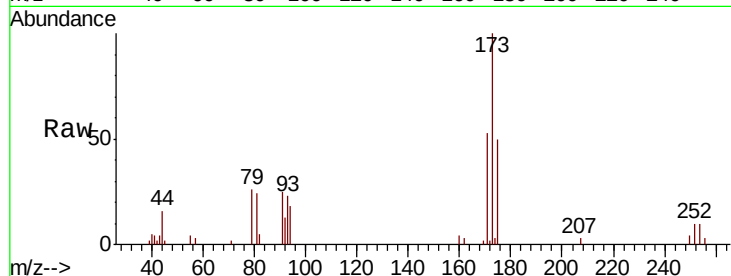
Tot Ion:173 Resp: 4990

Ion Ratio Lower Upper

173 100

175 49.3 39.7 59.5

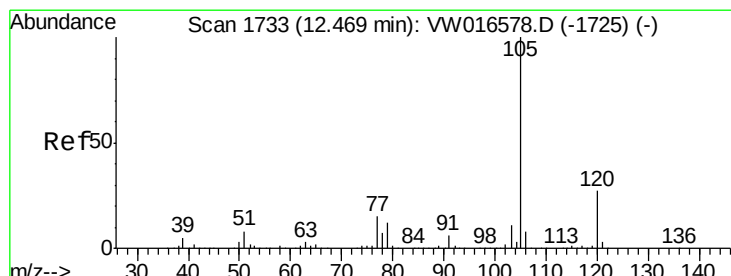
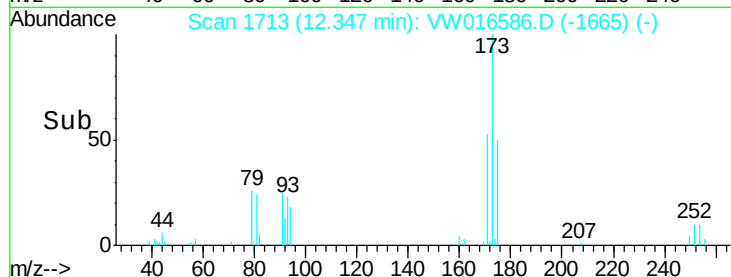
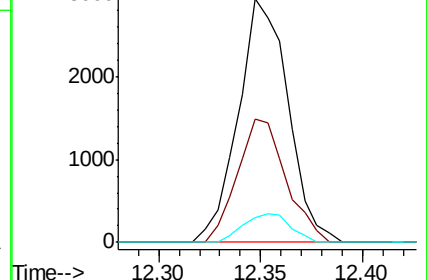
254 11.0 8.2 12.2



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#60

Isopropylbenzene

Concen: 1.113 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

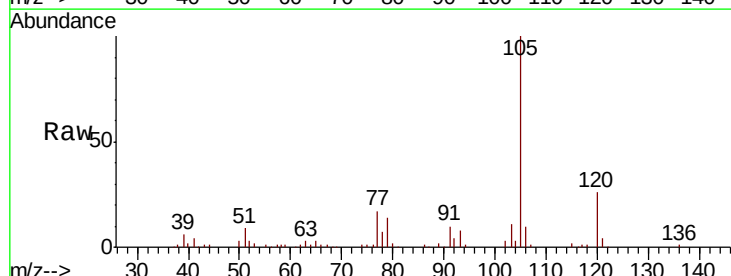
Tgt Ion:105 Resp: 46218

Ion Ratio Lower Upper

105 100

120 26.4 21.8 32.8

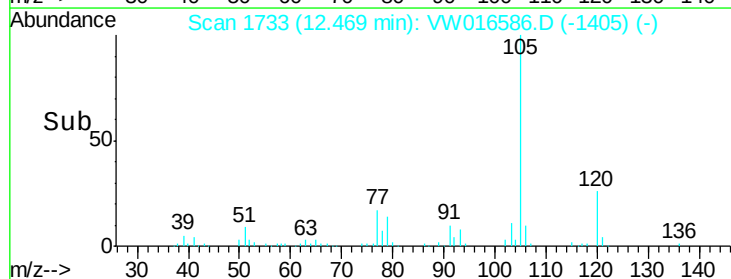
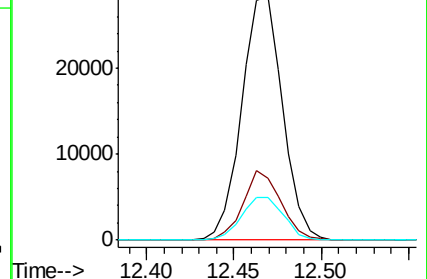
77 18.2 12.1 18.1#

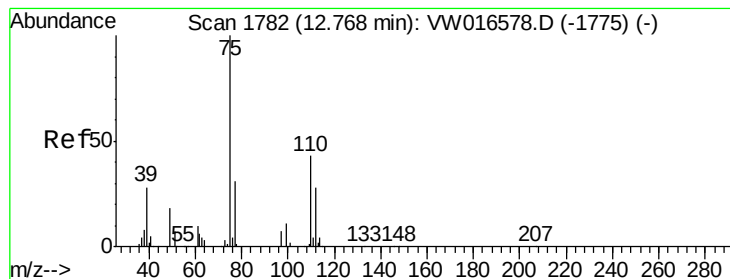


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV





#61

1,2,3-Trichloropropane

Concen: 1.280 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-01

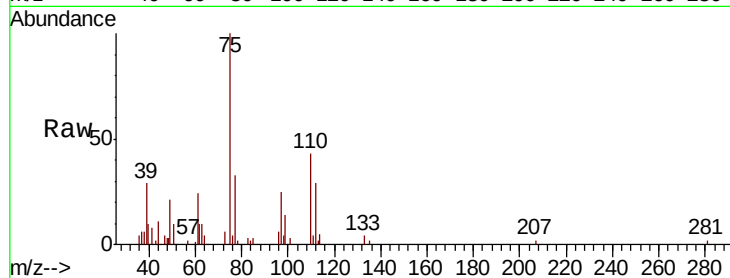
Tot Ion: 75 Resp: 5998

Ion Ratio Lower Upper

75 100

77 34.5 25.8 38.8

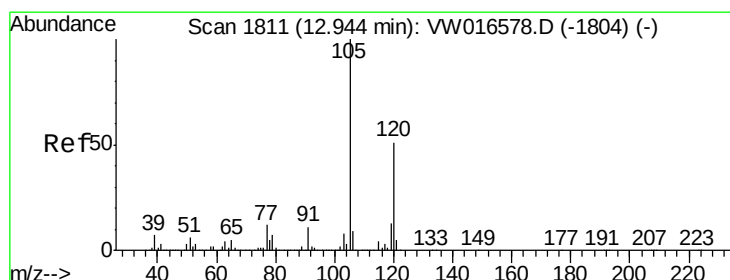
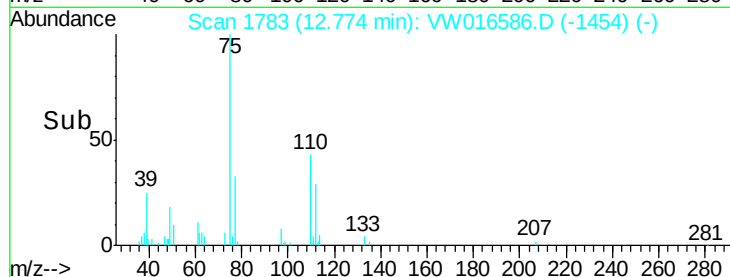
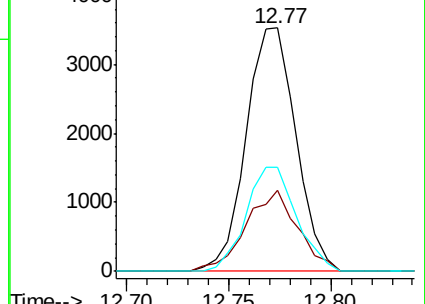
110 43.3 35.8 53.8



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

Ion 110.00 (109.70 to 110.70): VW



#62

1,3,5-Trimethylbenzene

Concen: 1.066 ug/L

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW016586.D

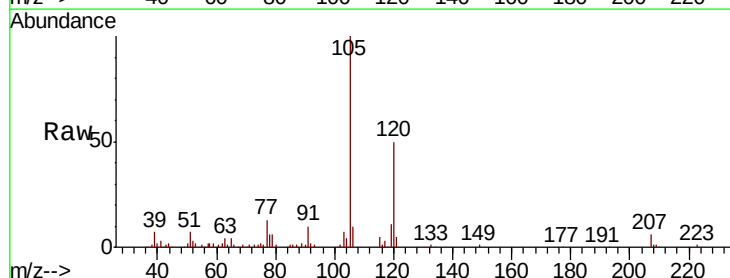
Acq: 18 Sep 2020 15:44

Tgt Ion:105 Resp: 36421

Ion Ratio Lower Upper

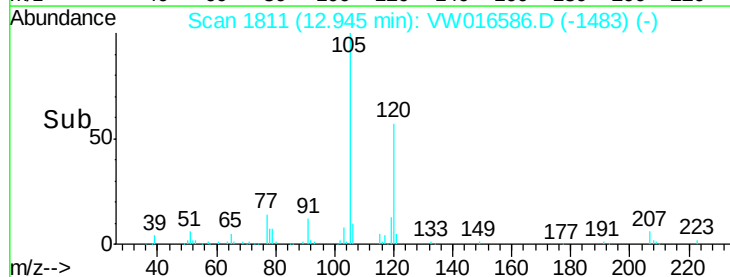
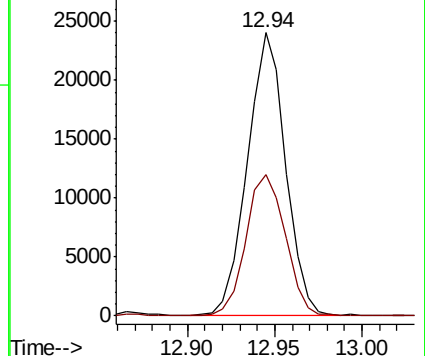
105 100

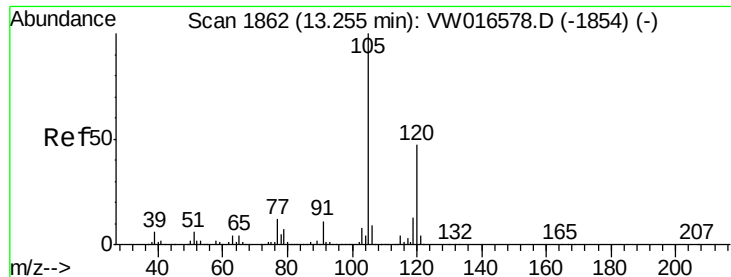
120 51.5 39.8 59.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

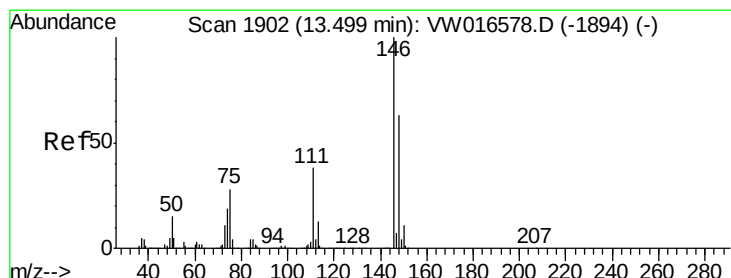
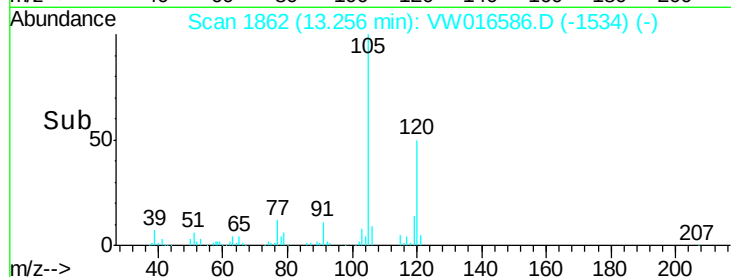
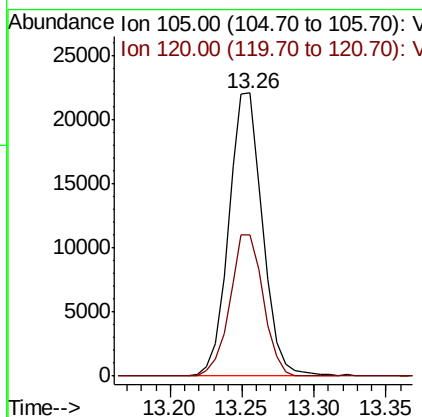
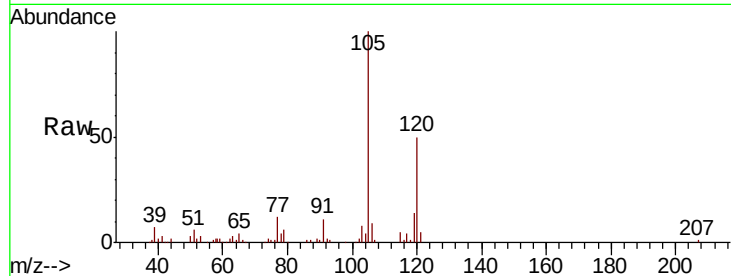




#63
 1,2,4-Trimethylbenzene
 Concen: 1.067 ug/L
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VW016586.D
 Acq: 18 Sep 2020 15:44

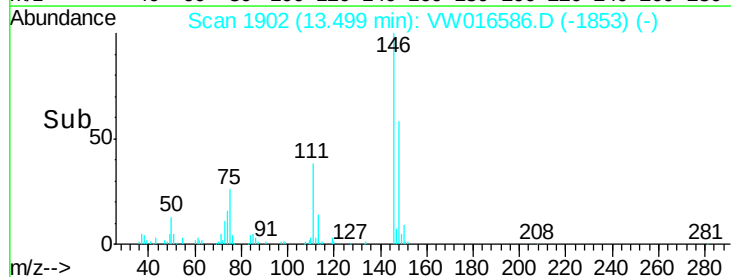
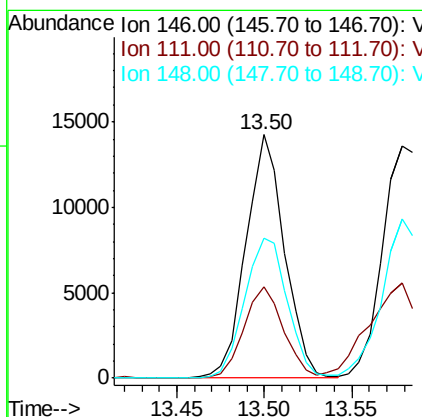
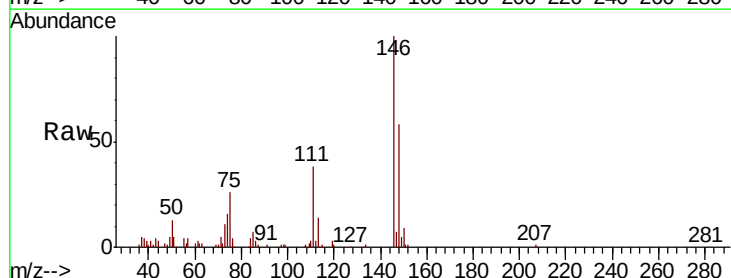
Instrument :
 MSVOA_W
 ClientSampled :
 MDL-SOIL-01

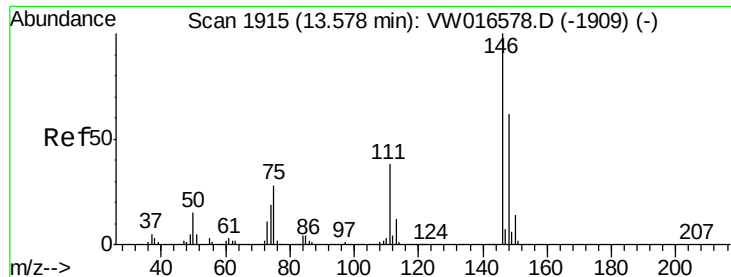
Tot Ion:105 Resp: 36232
 Ion Ratio Lower Upper
 105 100
 120 49.2 36.4 54.6



#64
 1,3-Dichlorobenzene
 Concen: 1.149 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW016586.D
 Acq: 18 Sep 2020 15:44

Tgt Ion:146 Resp: 21888
 Ion Ratio Lower Upper
 146 100
 111 37.7 26.5 49.3
 148 57.6 44.0 81.8

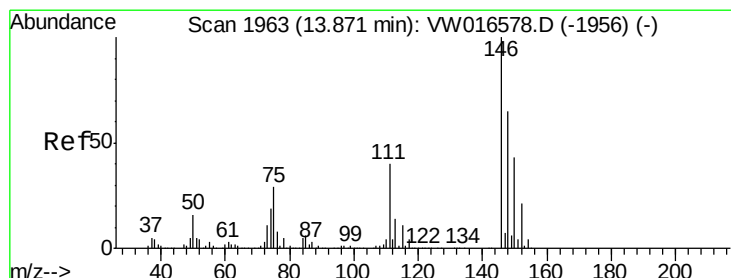
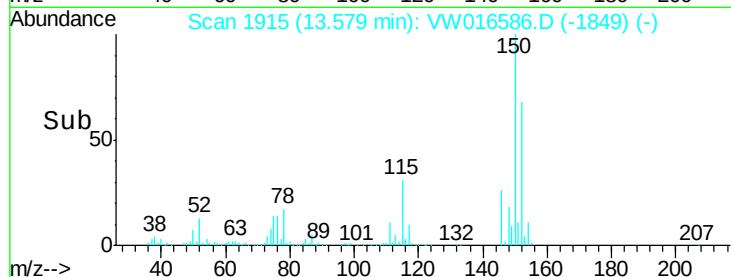
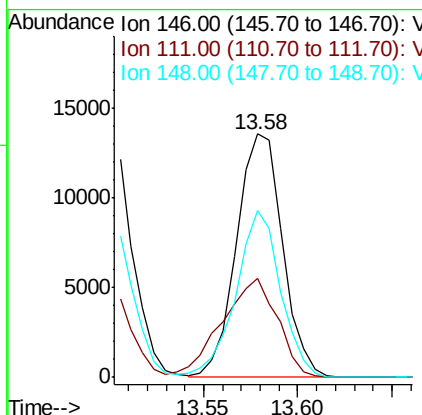
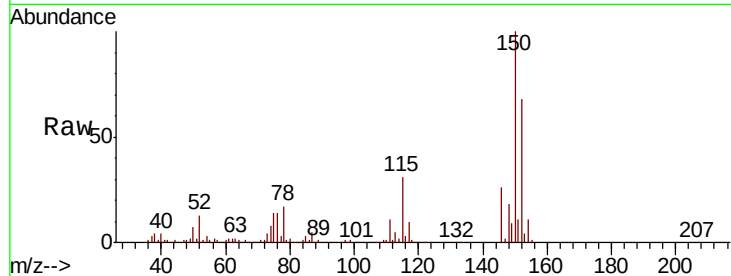




#65
1,4-Dichlorobenzene
Concen: 1.231 ug/L
RT: 13.58 min Scan# 1915
Delta R.T. 0.00 min
Lab File: VW016586.D
Acq: 18 Sep 2020 15:44

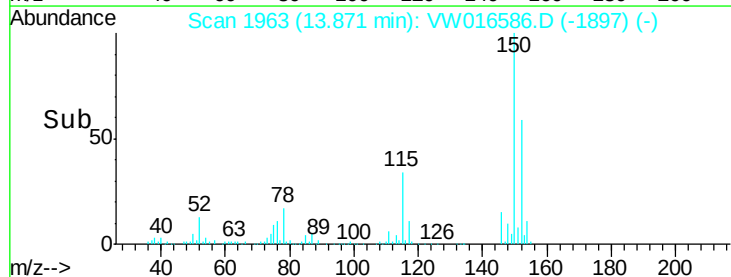
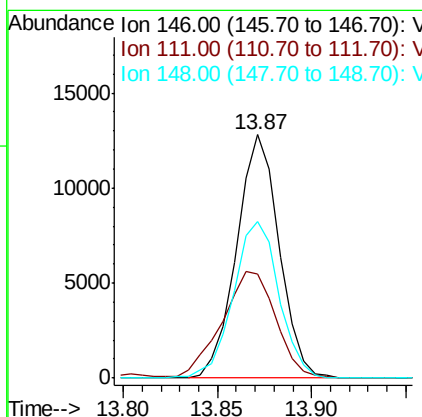
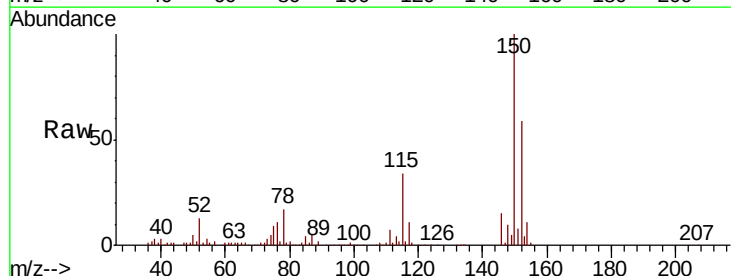
Instrument :
MSVOA_W
ClientSampled :
MDL-SOIL-01

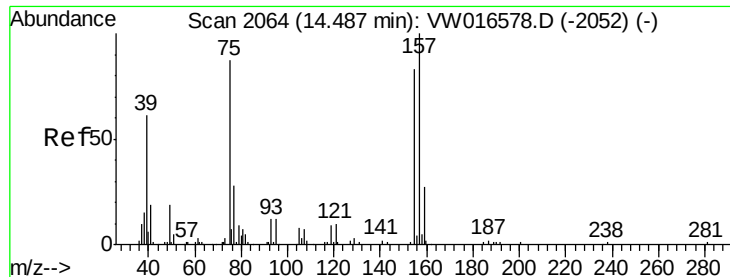
Tot Ion:146 Resp: 22996
Ion Ratio Lower Upper
146 100
111 40.8 26.5 49.3
148 68.4 43.8 81.4



#67
1,2-Dichlorobenzene
Concen: 1.188 ug/L
RT: 13.87 min Scan# 1963
Delta R.T. 0.00 min
Lab File: VW016586.D
Acq: 18 Sep 2020 15:44

Tgt Ion:146 Resp: 20023
Ion Ratio Lower Upper
146 100
111 42.6 32.4 48.6
148 64.5 52.2 78.2





#68

1,2-Dibromo-3-chloropropane

Concen: 1.298 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampled :

MDL-SOIL-01

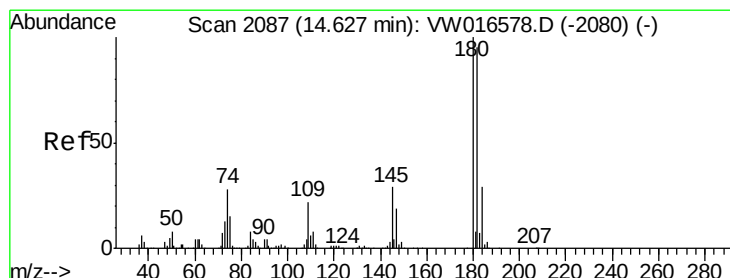
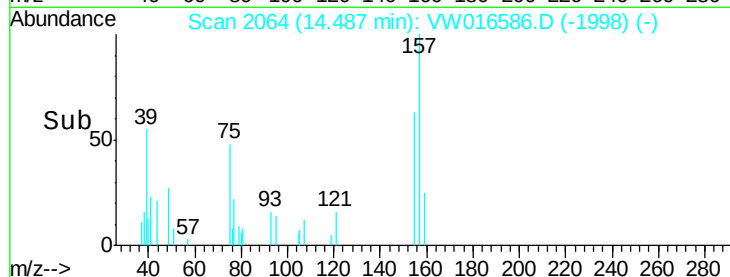
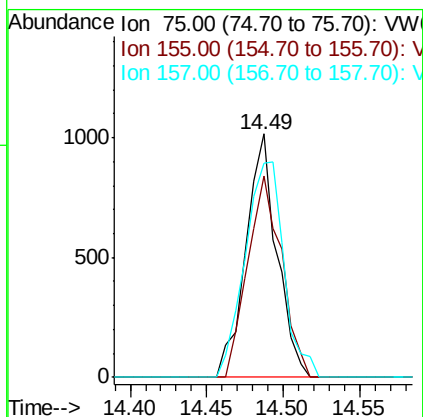
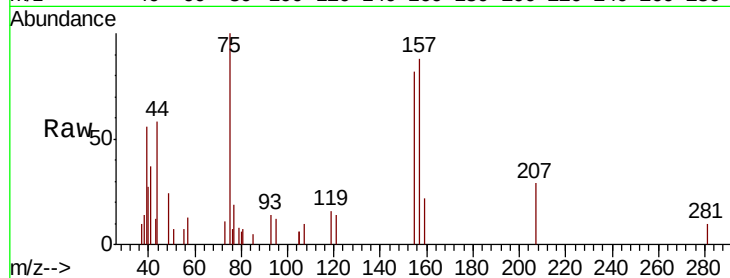
Tot Ion: 75 Resp: 1429

Ion Ratio Lower Upper

75 100

155 82.5 76.6 115.0

157 88.1 92.0 138.0#



#69

1,3,5-Trichlorobenzene

Concen: 1.193 ug/L

RT: 14.63 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Tgt Ion:180 Resp: 16767

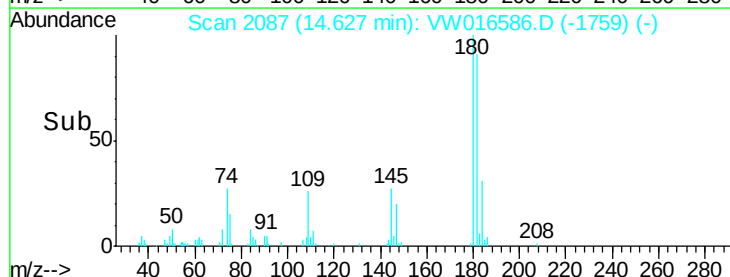
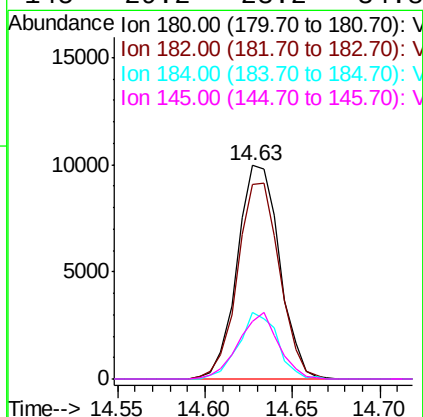
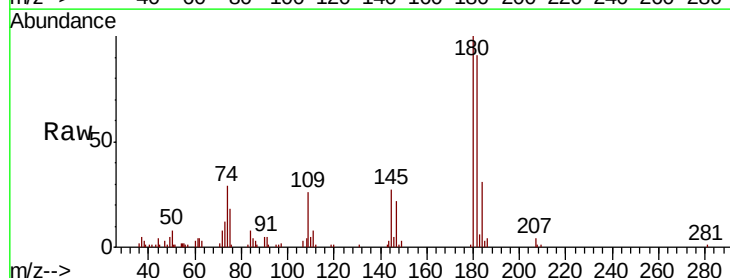
Ion Ratio Lower Upper

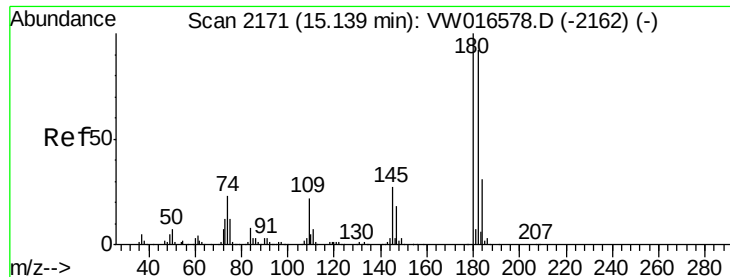
180 100

182 91.4 79.0 118.4

184 28.9 24.6 36.8

145 29.2 23.2 34.8





#70

1,2,4-trichlorobenzene

Concen: 1.170 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. -0.01 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

Instrument :

MSVOA_W

ClientSampled :

MDL-SOIL-01

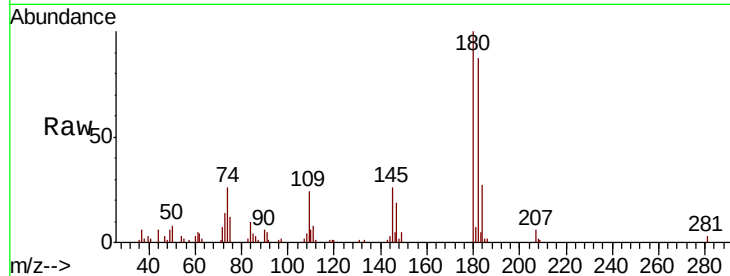
Tot Ion:180 Resp: 13282

Ion Ratio Lower Upper

180 100

182 95.1 76.1 114.1

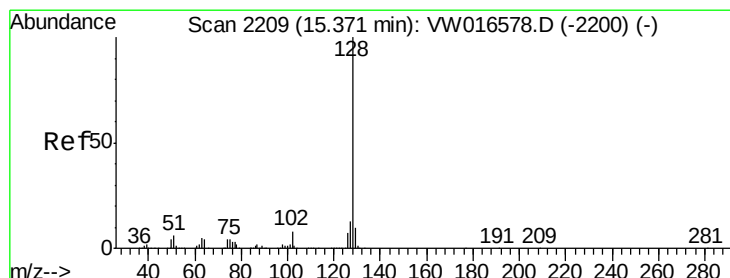
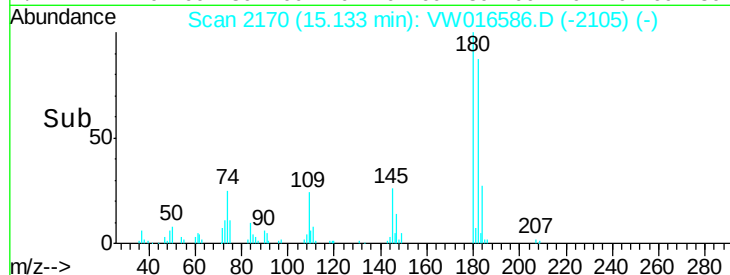
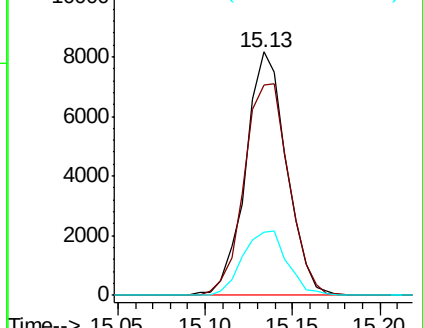
145 28.6 24.1 36.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#71

Naphthalene

Concen: 1.102 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW016586.D

Acq: 18 Sep 2020 15:44

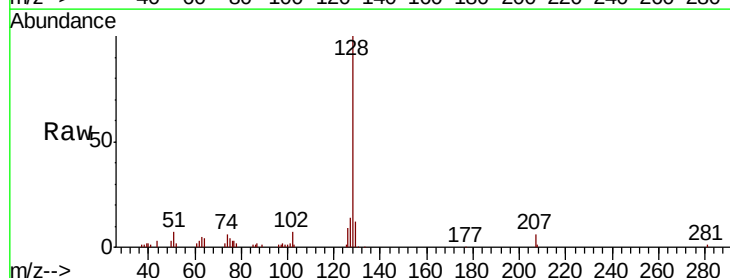
Tgt Ion:128 Resp: 21002

Ion Ratio Lower Upper

128 100

127 13.7 10.6 16.0

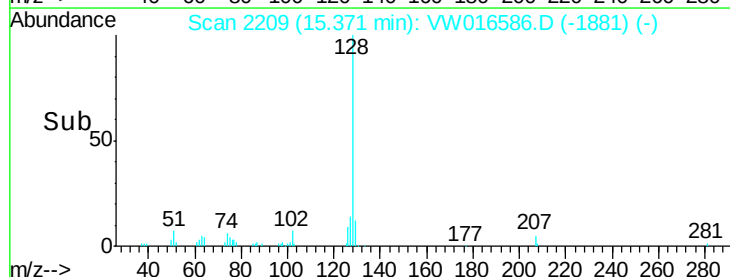
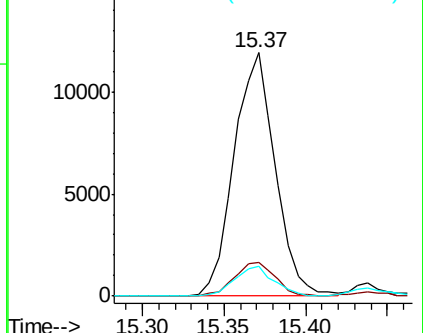
129 11.6 9.0 13.4

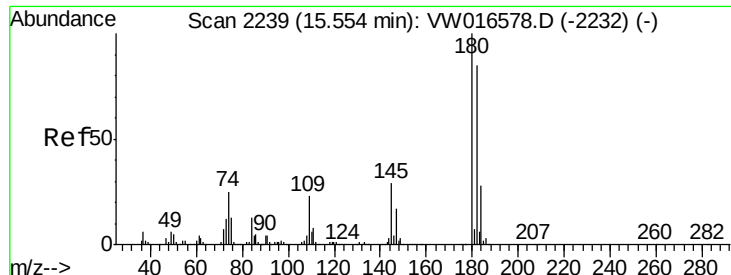


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

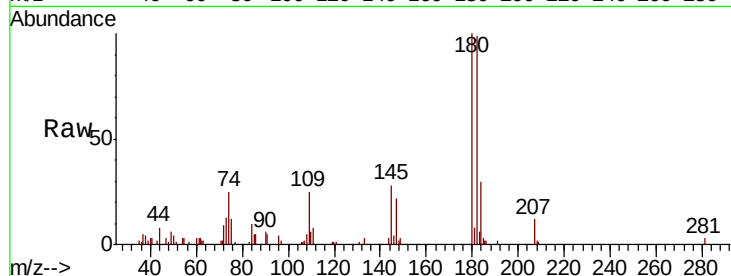




#72
 1,2,3-Trichlorobenzene
 Concen: 1.189 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.01 min
 Lab File: VW016586.D
 Acq: 18 Sep 2020 15:44

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.5	75.5	113.3
145	31.2	24.3	36.5



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

