

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091820\
 Data File : VW016587.D
 Acq On : 18 Sep 2020 16:08
 Operator : SY/VA
 Sample : MDL02
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-02

Quant Time: Sep 19 00:21:08 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	582558	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	521791	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.56	152	265556	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.37	65	160004	24.59	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.36%
7) Chloroethane-d5	2.90	69	126628	23.70	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.80%
11) 1,1-Dichloroethene-d2	4.03	63	241520	17.59	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	70.36%
21) 2-Butanone-d5	7.09	46	81820	55.60	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	111.20%
24) Chloroform-d	7.65	84	332048	24.19	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.76%
26) 1,2-Dichloroethane-d4	8.31	65	183641	26.20	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	104.80%
32) Benzene-d6	8.28	84	652159	24.47	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.88%
36) 1,2-Dichloropropane-d6	9.28	67	182289	24.87	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.48%
41) Toluene-d8	10.33	98	627956	24.16	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	96.64%
43) trans-1,3-Dichloropropene-	10.58	79	89862	25.28	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	101.12%
47) 2-Hexanone-d5	10.93	63	66435	57.60	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	115.20%
56) 1,1,2,2-Tetrachloroethane-	12.69	84	156483	27.43	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	109.72%
66) 1,2-Dichlorobenzene-d4	13.86	152	241114	25.07	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.28%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.03	85	7322	1.042 ug/L	92
3) Chloromethane	2.22	50	7113	1.278 ug/L	99
5) Vinyl chloride	2.37	62	10573	1.325 ug/L #	56
6) Bromomethane	2.80	94	7543	1.230 ug/L	98
8) Chloroethane	2.94	64	6009	1.267 ug/L	97
9) Trichlorofluoromethane	3.27	101	7368	0.974 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	4.09	101	9833	1.309 ug/L #	59
12) 1,1-Dichloroethene	4.05	96	10513	1.399 ug/L #	1
13) Acetone	4.15	43	2016	2.031 ug/L	85
14) Carbon disulfide	4.38	76	11075	0.496 ug/L	99
15) Methyl Acetate	4.69	43	3457	1.419 ug/L #	76
16) Methylene chloride	4.93	84	27855	3.263 ug/L	89
17) trans-1,2-Dichloroethene	5.44	96	9595	1.231 ug/L	91
18) Methyl tert-butyl Ether	5.43	73	12654	1.321 ug/L #	74
19) 1,1-Dichloroethane	6.23	63	15259	1.236 ug/L	99
20) cis-1,2-Dichloroethene	7.17	96	9579	1.182 ug/L	78
22) 2-Butanone	7.15	43	5323	3.154 ug/L	75

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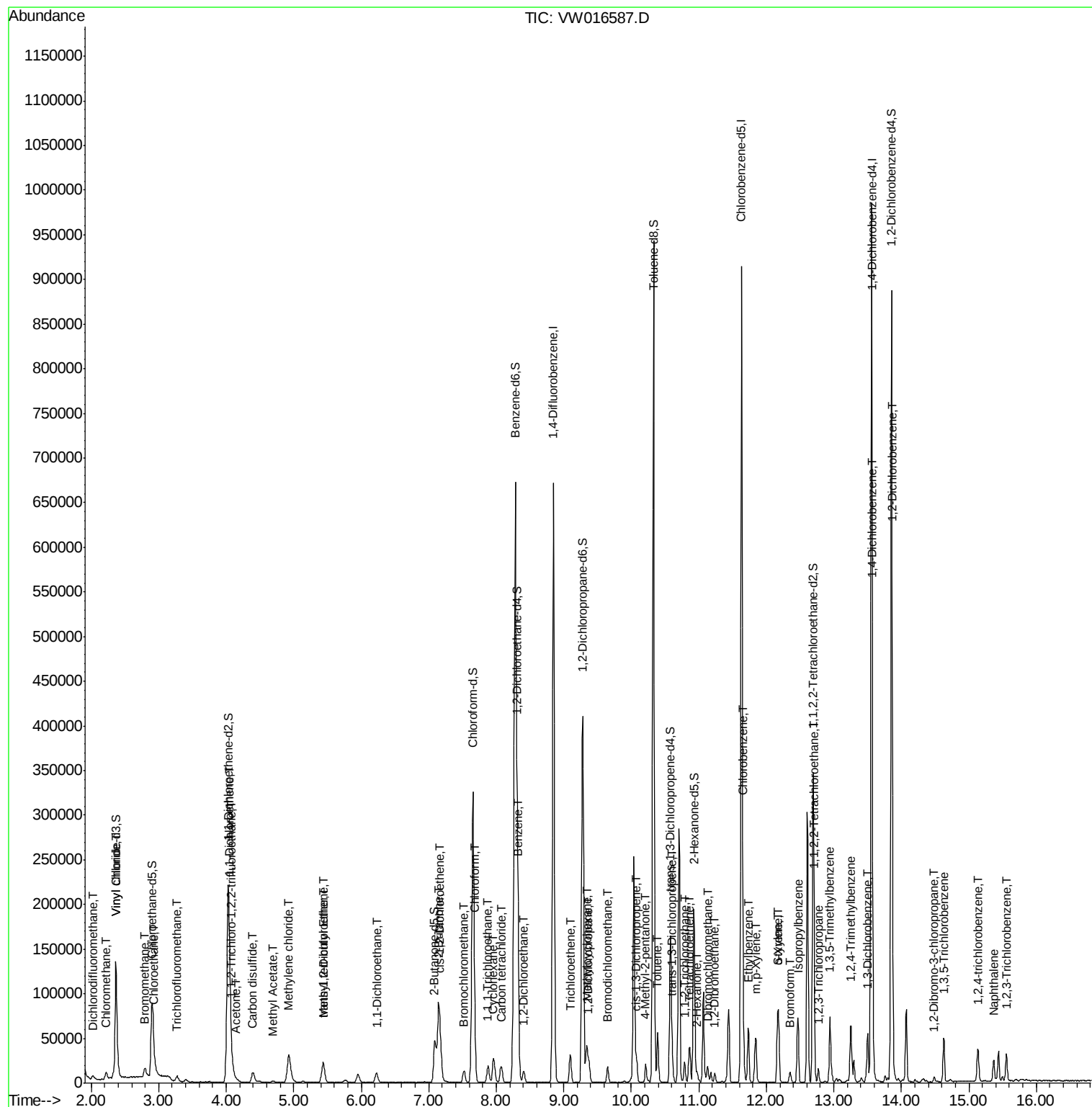
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.52	128	4948	1.299	ug/L	91
25) Chloroform	7.68	83	18075	1.338	ug/L	98
27) 1,2-Dichloroethane	8.41	62	11655	1.389	ug/L	98
29) Cyclohexane	7.96	56	13695	1.176	ug/L	99
30) 1,1,1-Trichloroethane	7.88	97	14529	1.169	ug/L	97
31) Carbon tetrachloride	8.07	117	13890	1.147	ug/L	98
33) Benzene	8.33	78	33914	1.173	ug/L	100
34) Trichloroethene	9.10	95	9939	1.199	ug/L	95
35) Methylcyclohexane	9.34	83	16648	1.202	ug/L	99
37) 1,2-Dichloropropane	9.37	63	8437	1.280	ug/L #	97
38) Bromodichloromethane	9.65	83	11902	1.218	ug/L	98
39) cis-1,3-Dichloropropene	10.08	75	13406	1.192	ug/L	99
40) 4-Methyl-2-pentanone	10.21	43	12906	3.495	ug/L	99
42) Toluene	10.39	91	39308	1.207	ug/L	96
44) trans-1,3-Dichloropropene	10.61	75	16272	1.686	ug/L	97
45) 1,1,2-Trichloroethane	10.79	97	7048	1.317	ug/L	95
46) Tetrachloroethene	10.87	164	9137	1.222	ug/L	92
48) 2-Hexanone	10.97	43	6624	2.885	ug/L	99
49) Dibromochloromethane	11.13	129	8737	1.243	ug/L	93
50) 1,2-Dibromoethane	11.24	107	6679	1.260	ug/L #	92
51) Chlorobenzene	11.66	112	25830	1.196	ug/L	91
52) Ethylbenzene	11.73	91	43706	1.192	ug/L	97
53) m,p-Xylene	11.84	106	16997	1.190	ug/L	92
54) o-Xylene	12.17	106	16083	1.190	ug/L	92
55) Styrene	12.18	104	25587	1.137	ug/L	98
57) 1,1,2,2-Tetrachloroethane	12.71	83	8134	1.411	ug/L #	91
59) Bromoform	12.35	173	5123	1.195	ug/L #	95
60) Isopropylbenzene	12.47	105	44688	1.153	ug/L	97
61) 1,2,3-Trichloropropane	12.77	75	5757	1.316	ug/L	98
62) 1,3,5-Trimethylbenzene	12.94	105	35855	1.124	ug/L	99
63) 1,2,4-Trimethylbenzene	13.26	105	36040	1.137	ug/L	99
64) 1,3-Dichlorobenzene	13.51	146	21410	1.203	ug/L	94
65) 1,4-Dichlorobenzene	13.58	146	21483	1.231	ug/L	91
67) 1,2-Dichlorobenzene	13.87	146	18736	1.190	ug/L #	92
68) 1,2-Dibromo-3-chloropropan	14.49	75	1710	1.662	ug/L #	66
69) 1,3,5-Trichlorobenzene	14.63	180	15819	1.204	ug/L	95
70) 1,2,4-trichlorobenzene	15.14	180	12125	1.143	ug/L	100
71) Naphthalene	15.37	128	20699	1.163	ug/L	99
72) 1,2,3-Trichlorobenzene	15.56	180	10997	1.235	ug/L	99

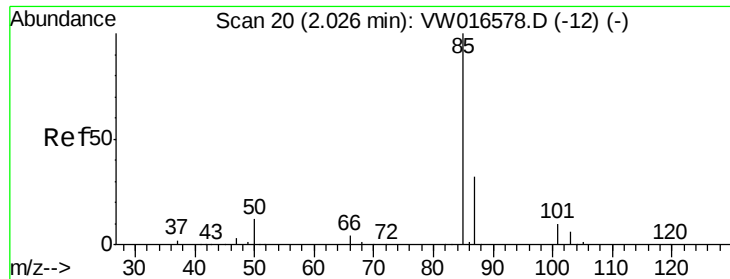
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.042 ug/L

RT: 2.03 min Scan# 20

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Instrument :

MSVOA_W

ClientSampleId :

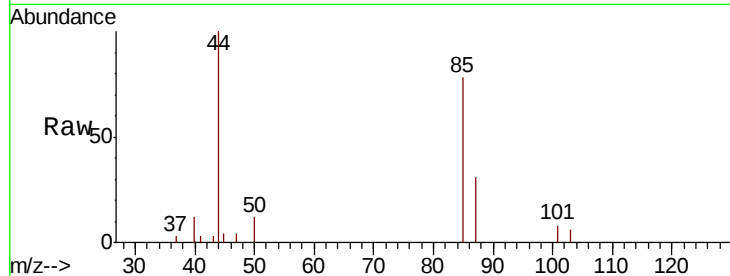
MDL-SOIL-02

Tot Ion: 85 Resp: 7322

Ion Ratio Lower Upper

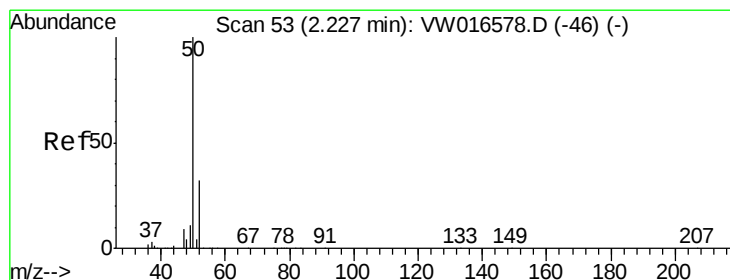
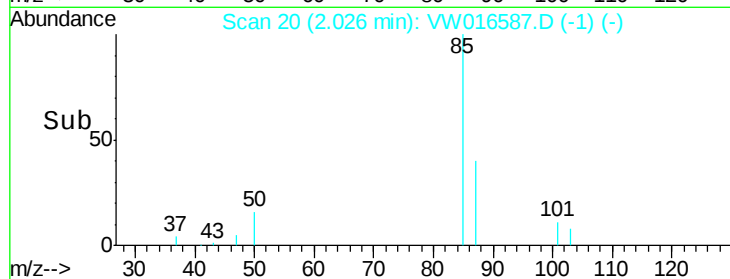
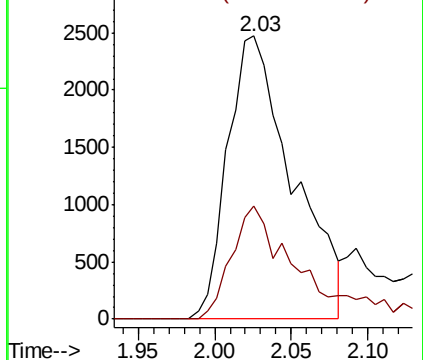
85 100

87 22.8 21.4 32.0



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 1.278 ug/L

RT: 2.22 min Scan# 52

Delta R.T. -0.01 min

Lab File: VW016587.D

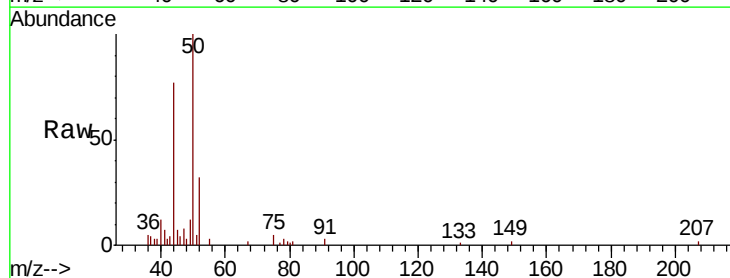
Acq: 18 Sep 2020 16:08

Tgt Ion: 50 Resp: 7113

Ion Ratio Lower Upper

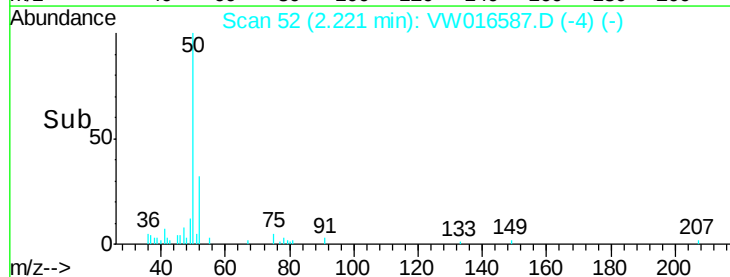
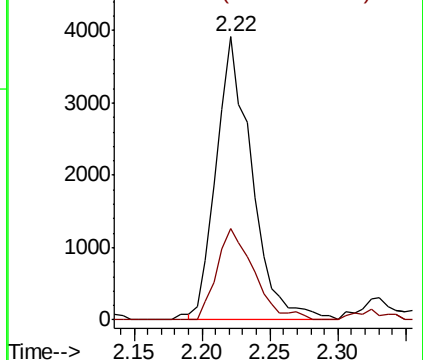
50 100

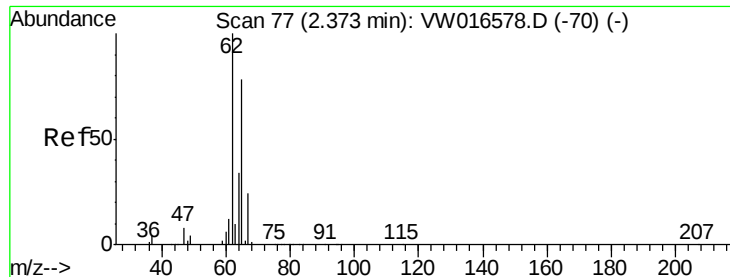
52 32.2 22.1 41.1



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 1.325 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

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ClientSampleId :

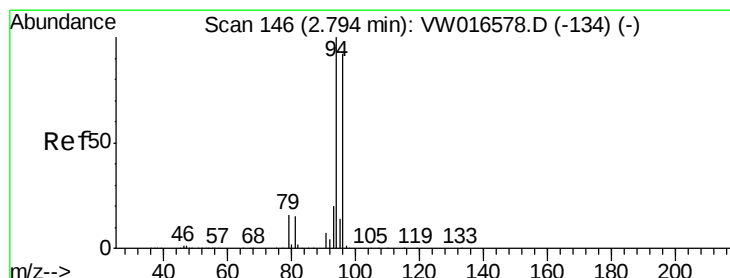
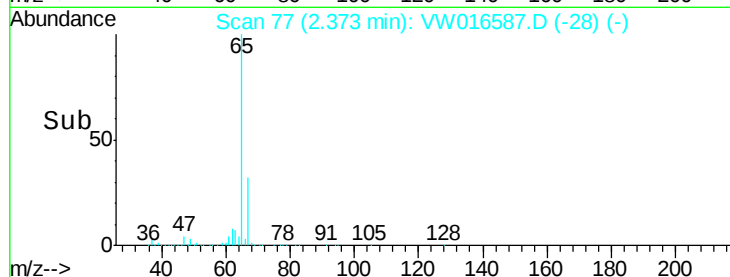
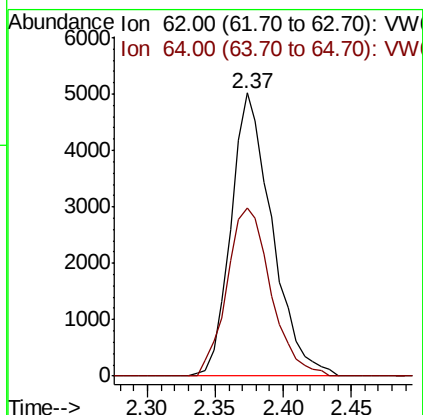
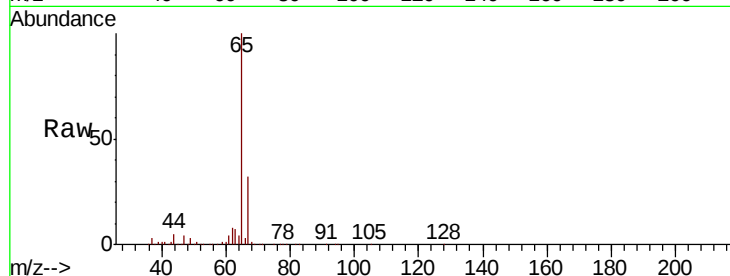
MDL-SOIL-02

Tot Ion: 62 Resp: 10573

Ion Ratio Lower Upper

62 100

64 59.6 24.1 44.7#



#6

Bromomethane

Concen: 1.230 ug/L

RT: 2.80 min Scan# 147

Delta R.T. 0.01 min

Lab File: VW016587.D

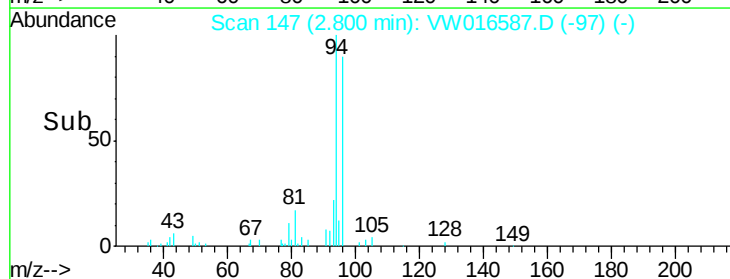
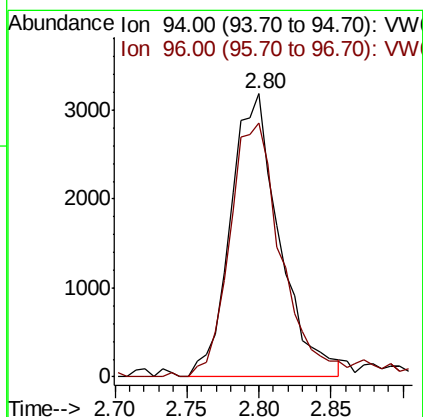
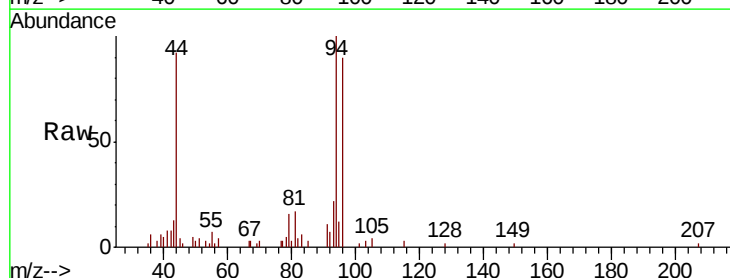
Acq: 18 Sep 2020 16:08

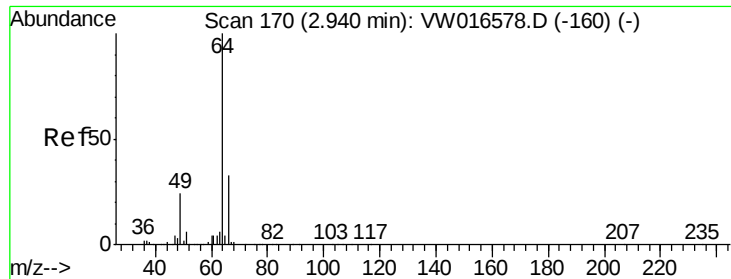
Tgt Ion: 94 Resp: 7543

Ion Ratio Lower Upper

94 100

96 89.7 64.2 119.2

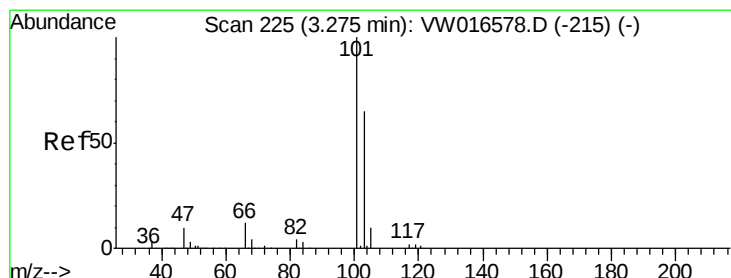
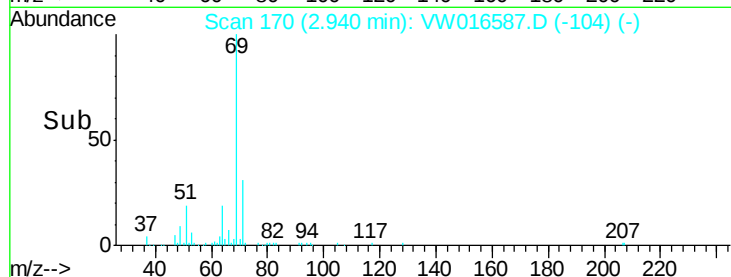
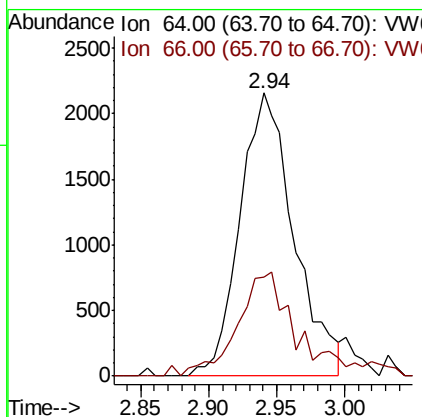
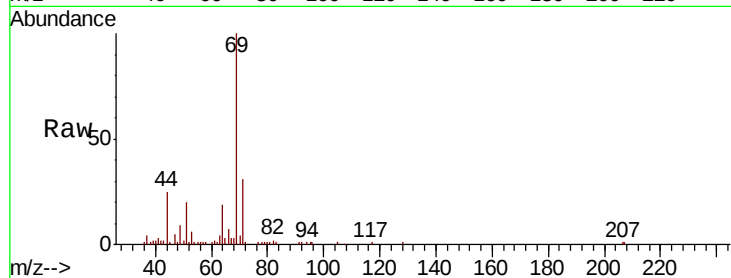




#8
Chloroethane
Concen: 1.267 ug/L
RT: 2.94 min Scan# 170
Delta R.T. 0.00 min
Lab File: VW016587.D
Acq: 18 Sep 2020 16:08

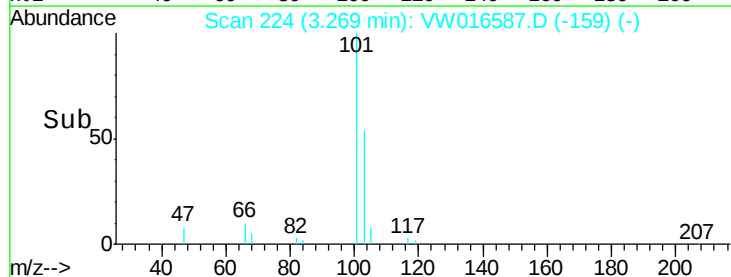
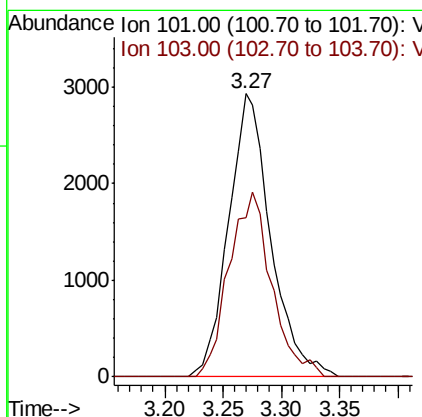
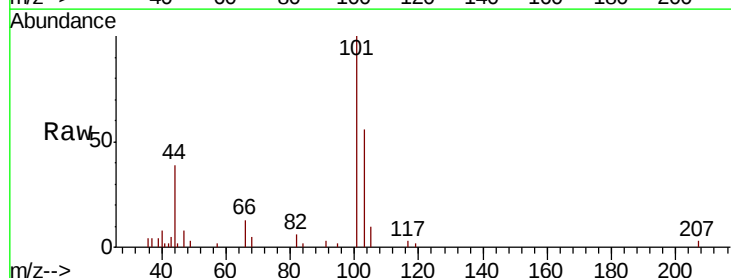
Instrument :
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MDL-SOIL-02

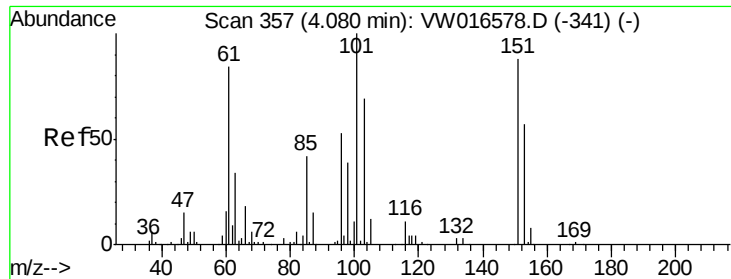
Tot Ion: 64 Resp: 6009
Ion Ratio Lower Upper
64 100
66 35.2 23.5 43.7



#9
Trichlorofluoromethane
Concen: 0.974 ug/L
RT: 3.27 min Scan# 224
Delta R.T. -0.01 min
Lab File: VW016587.D
Acq: 18 Sep 2020 16:08

Tgt Ion: 101 Resp: 7368
Ion Ratio Lower Upper
101 100
103 66.1 51.8 77.8





#10

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

Concen: 1.309 ug/L

RT: 4.09 min Scan# 358

Delta R.T. 0.01 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-02

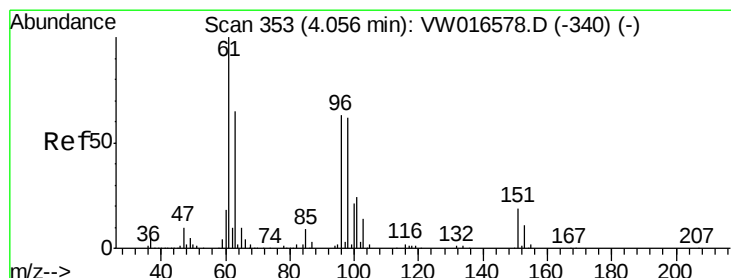
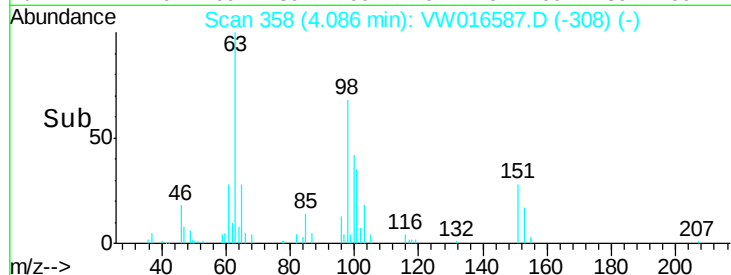
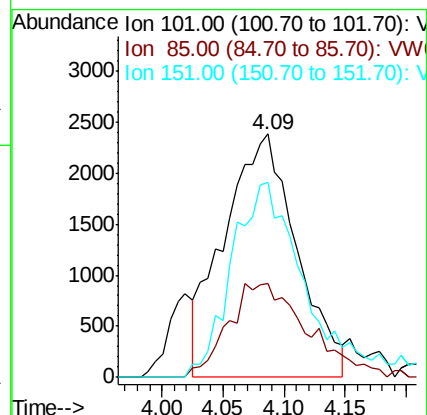
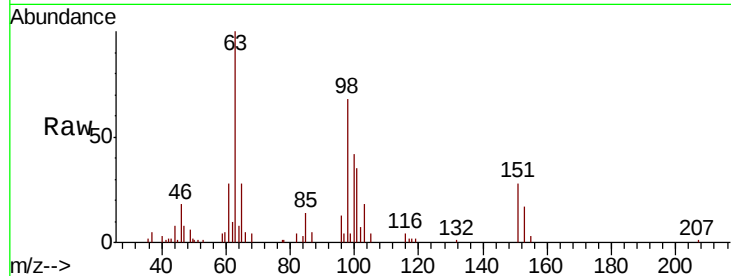
Tot Ion:101 Resp: 9833

Ion Ratio Lower Upper

101 100

85 0.0 32.2 48.2#

151 56.4 66.8 100.2#



#12

1,1-Dichloroethene

Concen: 1.399 ug/L

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

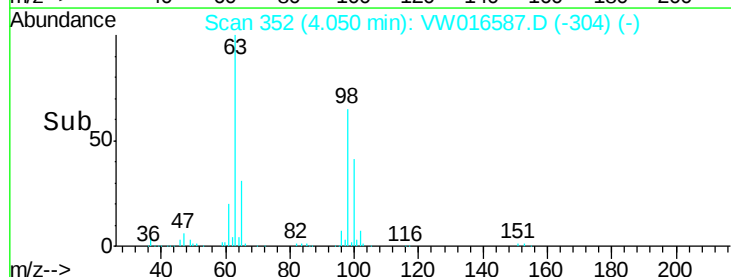
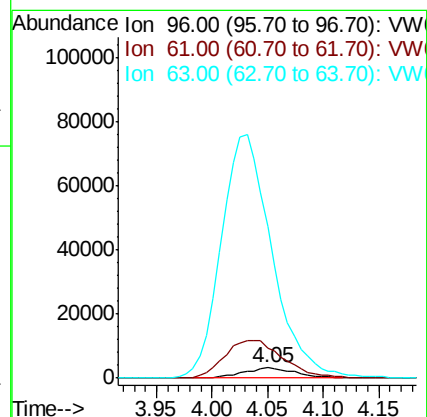
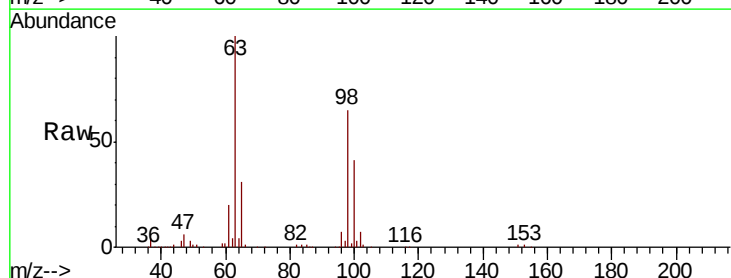
Tgt Ion: 96 Resp: 10513

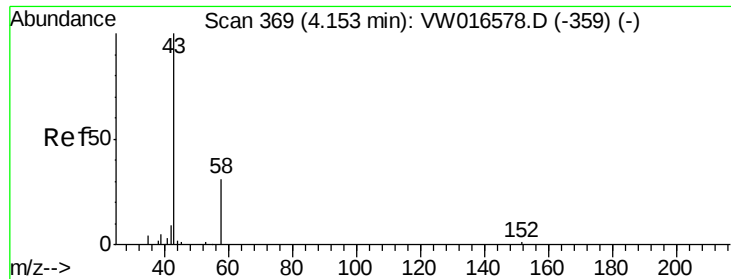
Ion Ratio Lower Upper

96 100

61 294.9 112.1 208.3#

63 1498.9 74.2 137.8#





#13

Acetone

Concen: 2.031 ug/L

RT: 4.15 min Scan# 368

Delta R.T. -0.01 min

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Acq: 18 Sep 2020 16:08

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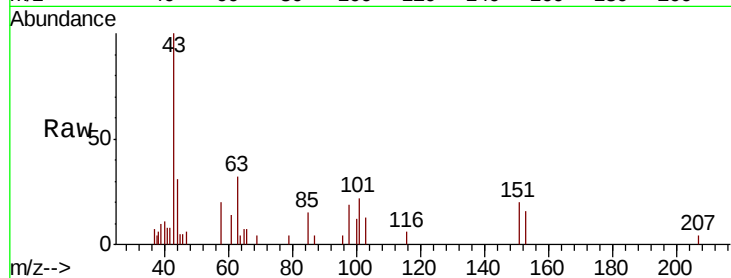
MDL-SOIL-02

Tot Ion: 43 Resp: 2016

Ion Ratio Lower Upper

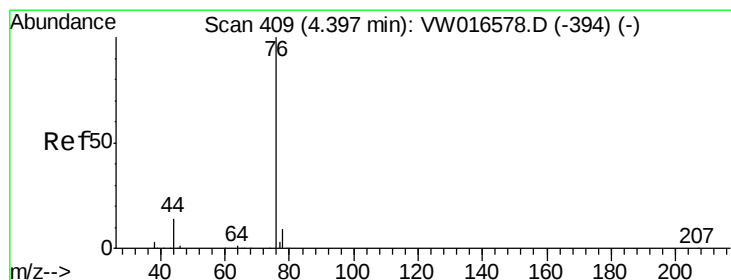
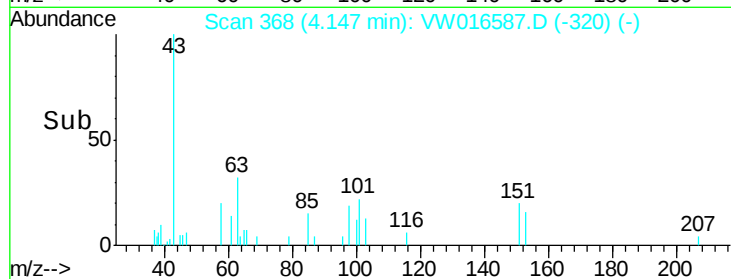
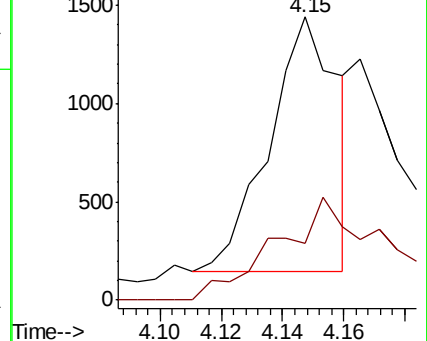
43 100

58 21.9 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 0.496 ug/L

RT: 4.38 min Scan# 407

Delta R.T. -0.01 min

Lab File: VW016587.D

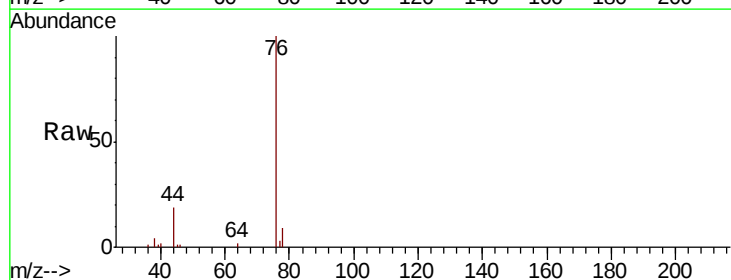
Acq: 18 Sep 2020 16:08

Tgt Ion: 76 Resp: 11075

Ion Ratio Lower Upper

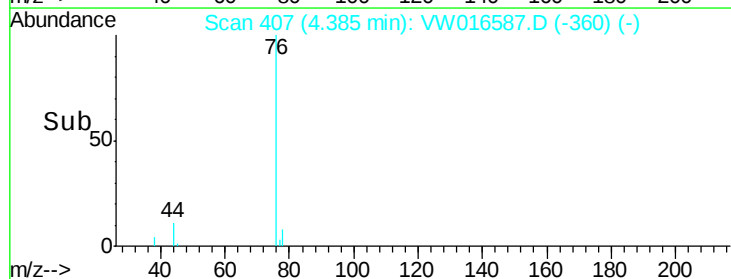
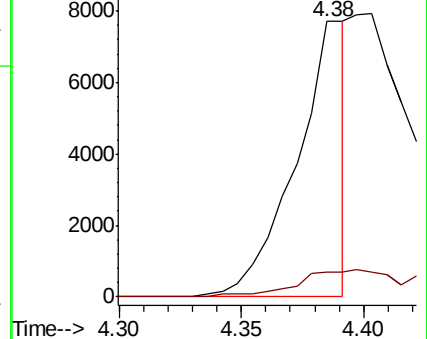
76 100

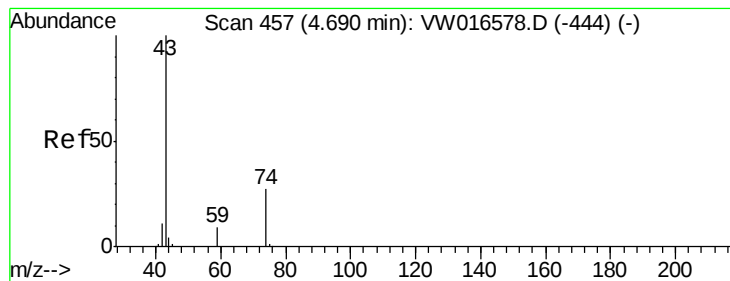
78 8.8 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#15

Methyl Acetate

Concen: 1.419 ug/L

RT: 4.69 min Scan# 457

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Instrument :

MSVOA_W

ClientSampled :

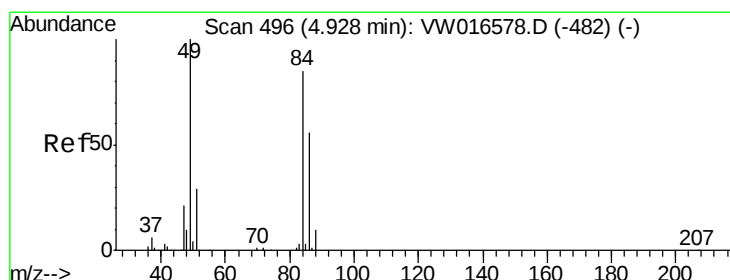
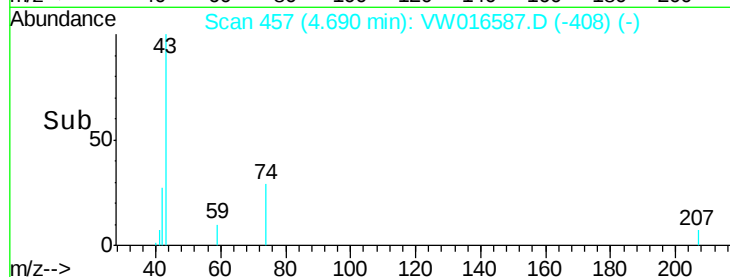
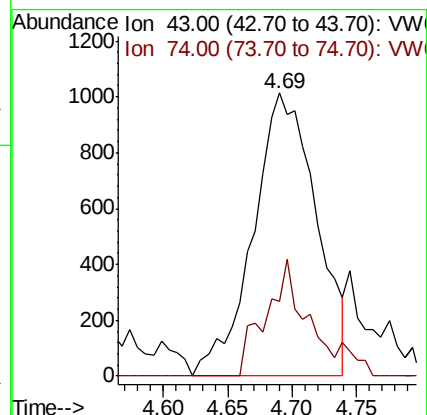
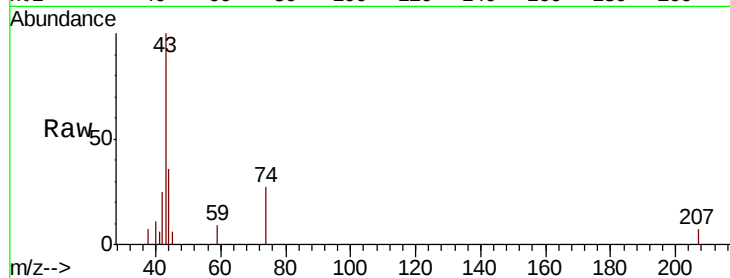
MDL-SOIL-02

Tot Ion: 43 Resp: 3457

Ion Ratio Lower Upper

43 100

74 14.9 21.9 32.9#



#16

Methylene chloride

Concen: 3.263 ug/L

RT: 4.93 min Scan# 496

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

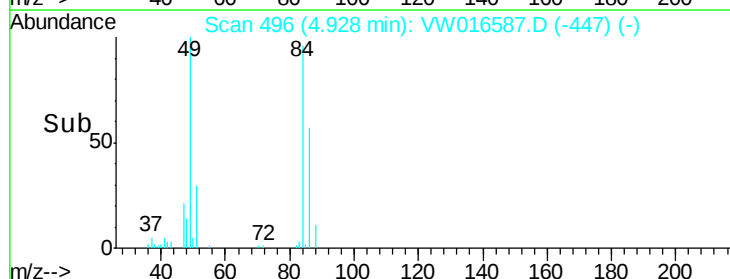
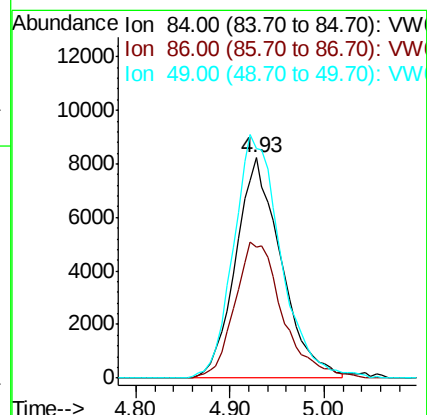
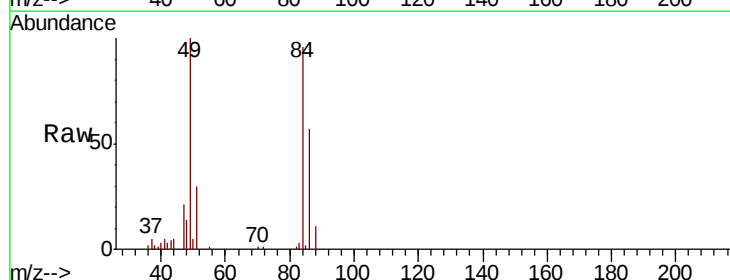
Tgt Ion: 84 Resp: 27855

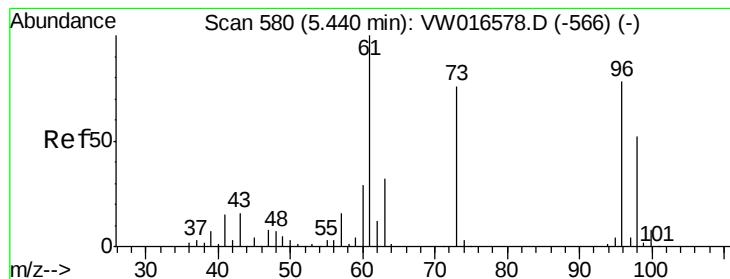
Ion Ratio Lower Upper

84 100

86 59.7 46.2 85.8

49 104.4 82.8 153.8





#17

trans-1,2-Dichloroethene

Concen: 1.231 ug/L

RT: 5.44 min Scan# 580

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-02

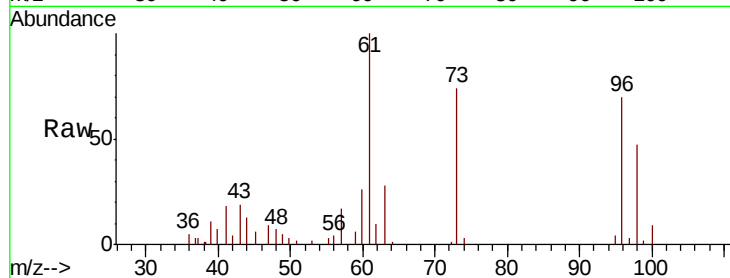
Tot Ion: 96 Resp: 9595

Ion Ratio Lower Upper

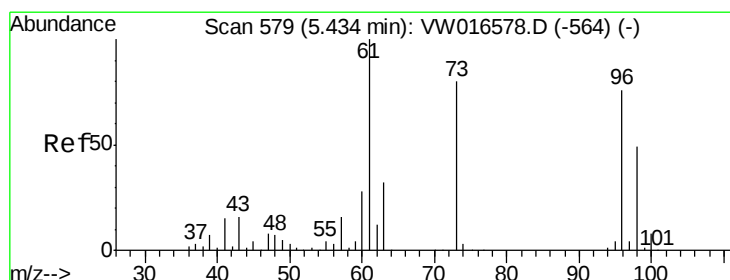
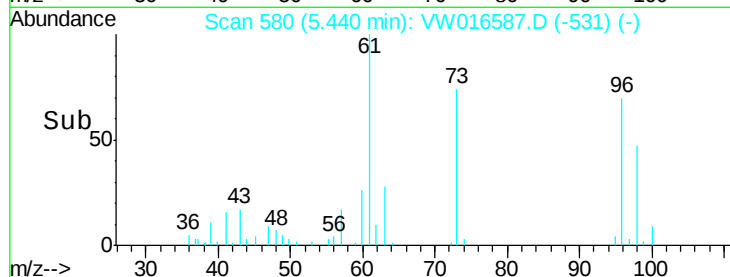
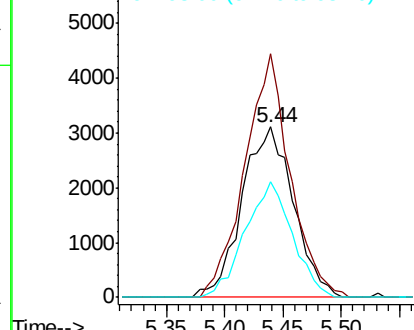
96 100

61 142.7 89.7 166.7

98 67.7 46.4 86.2



Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW



#18

Methyl tert-butyl Ether

Concen: 1.321 ug/L

RT: 5.43 min Scan# 579

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

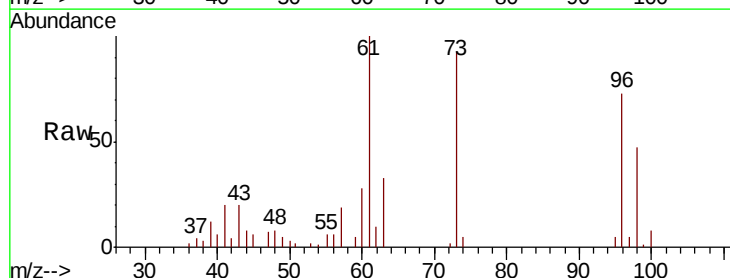
Tgt Ion: 73 Resp: 12654

Ion Ratio Lower Upper

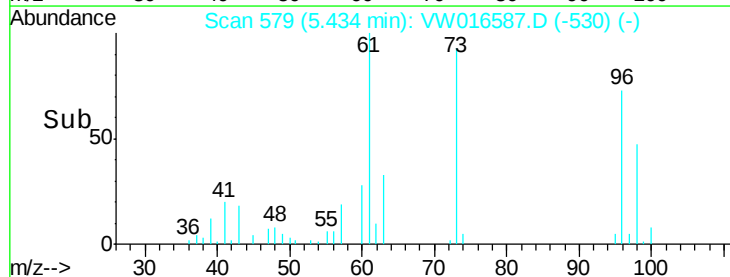
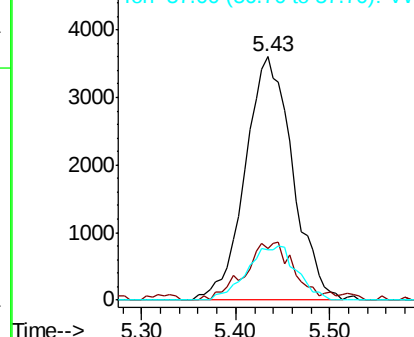
73 100

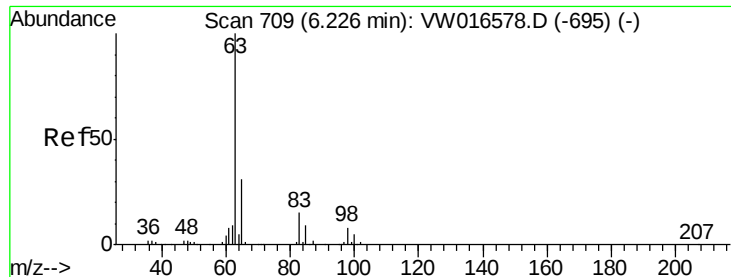
43 4.8 17.0 25.6#

57 13.1 16.3 24.5#



Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW

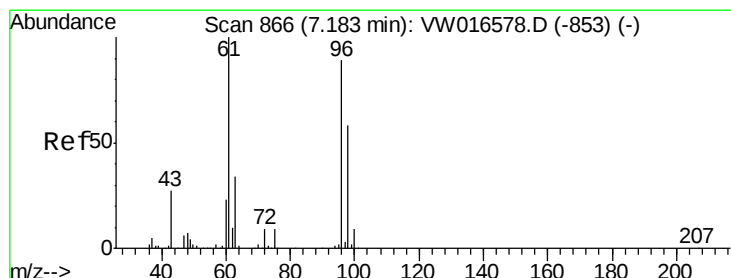
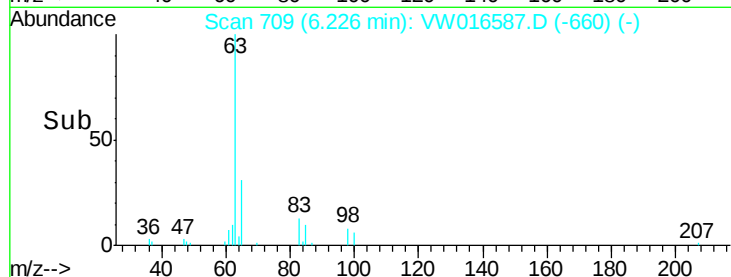
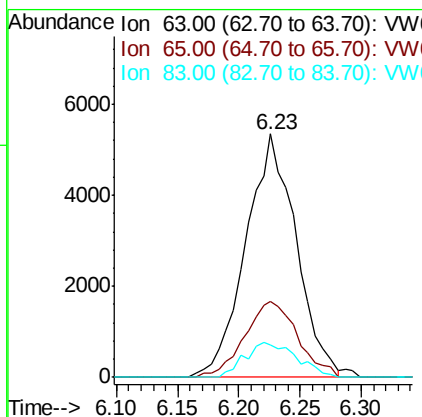
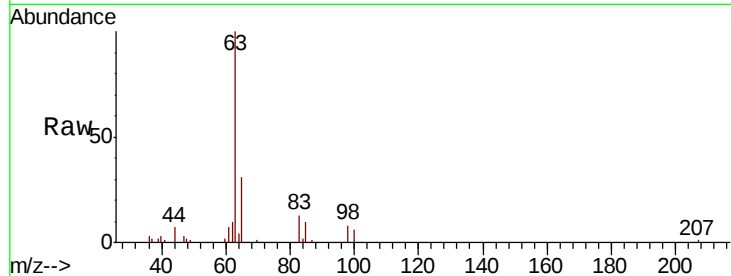




#19
 1,1-Dichloroethane
 Concen: 1.236 ug/L
 RT: 6.23 min Scan# 709
 Delta R.T. 0.00 min
 Lab File: VW016587.D
 Acq: 18 Sep 2020 16:08

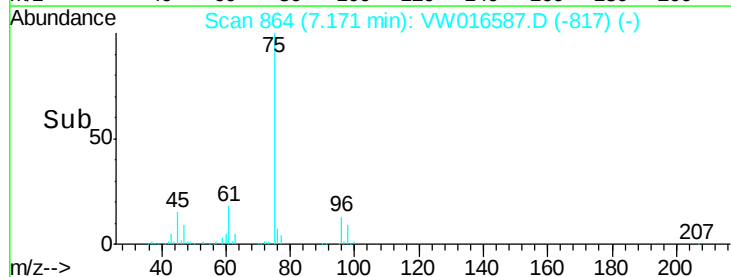
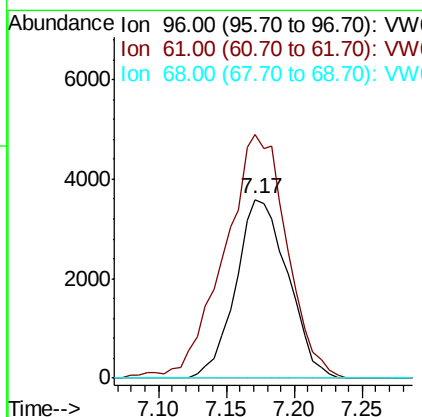
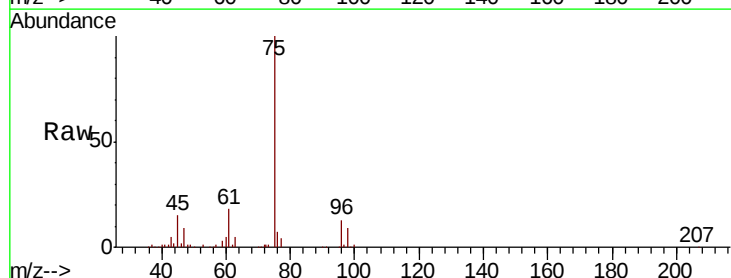
Instrument :
 MSVOA_W
 ClientSampled :
 MDL-SOIL-02

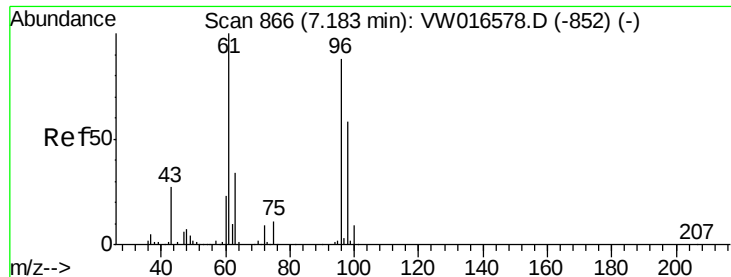
Tot Ion: 63 Resp: 15259
 Ion Ratio Lower Upper
 63 100
 65 31.1 21.8 40.6
 83 13.4 10.2 19.0



#20
 cis-1,2-Dichloroethene
 Concen: 1.182 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. -0.01 min
 Lab File: VW016587.D
 Acq: 18 Sep 2020 16:08

Tgt Ion: 96 Resp: 9579
 Ion Ratio Lower Upper
 96 100
 61 136.5 79.2 147.0
 68 0.0 0.0 0.0

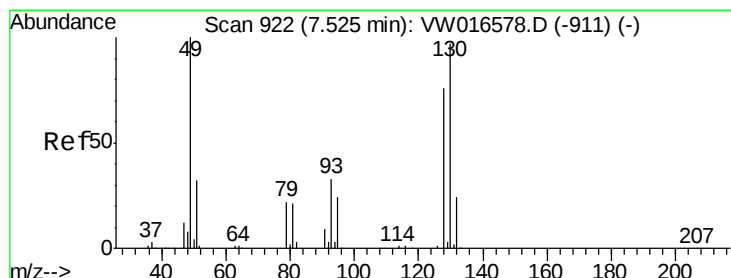
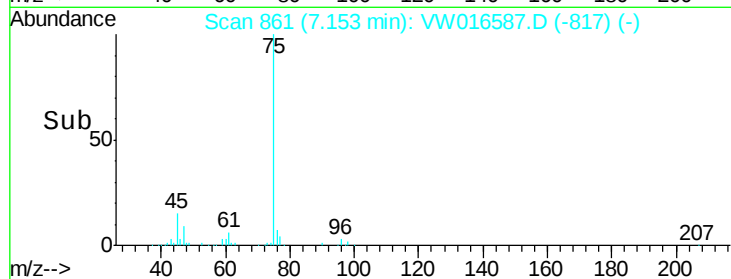
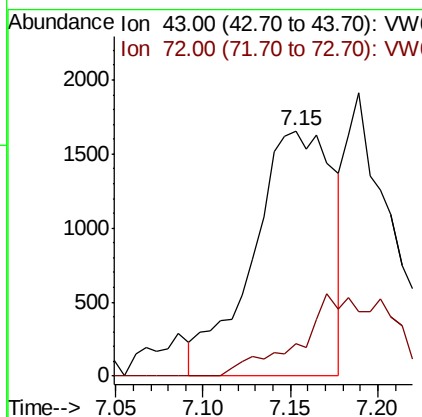
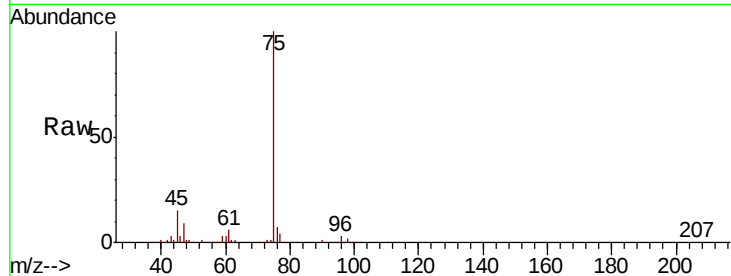




#22
2-Butanone
Concen: 3.154 ug/L
RT: 7.15 min Scan# 861
Delta R.T. -0.03 min
Lab File: VW016587.D
Acq: 18 Sep 2020 16:08

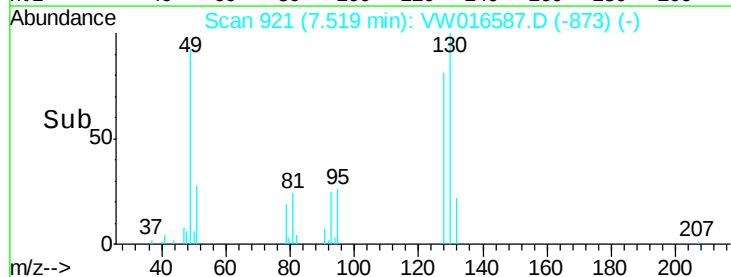
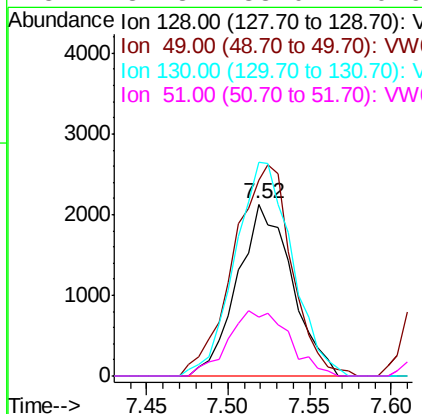
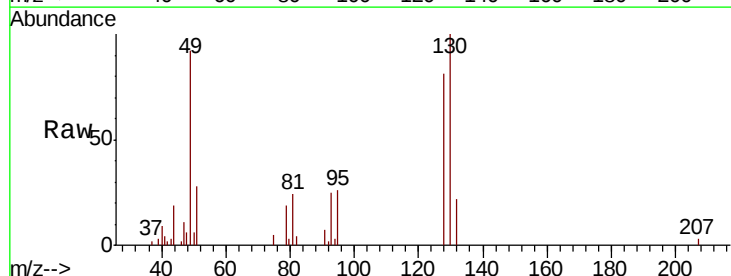
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-02

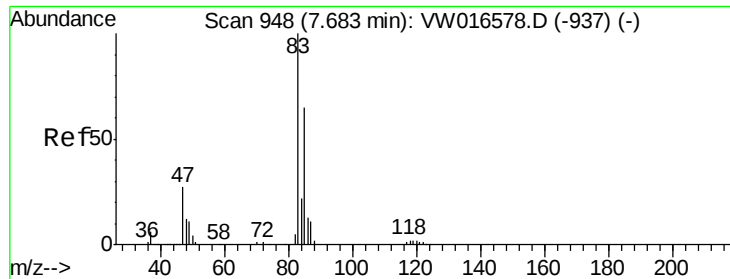
Tot Ion: 43 Resp: 5323
Ion Ratio Lower Upper
43 100
72 17.3 15.7 47.0



#23
Bromochloromethane
Concen: 1.299 ug/L
RT: 7.52 min Scan# 921
Delta R.T. -0.01 min
Lab File: VW016587.D
Acq: 18 Sep 2020 16:08

Tgt Ion:128 Resp: 4948
Ion Ratio Lower Upper
128 100
49 113.9 91.5 169.9
130 124.2 89.0 165.4
51 34.3 33.0 49.6

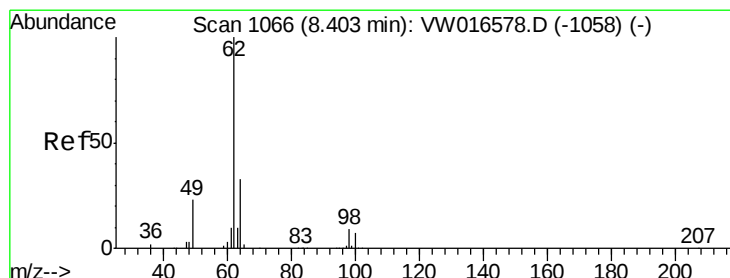
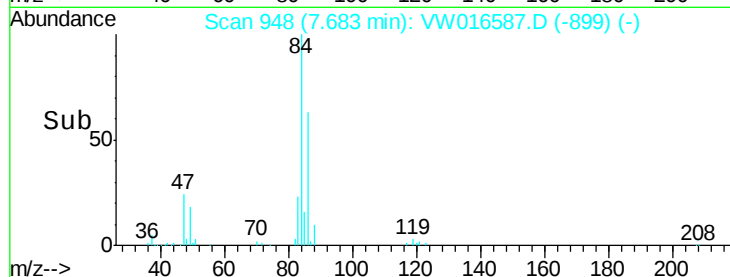
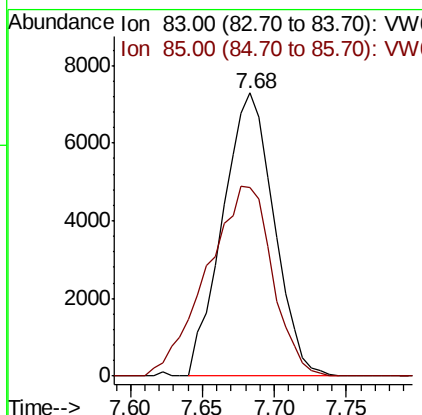
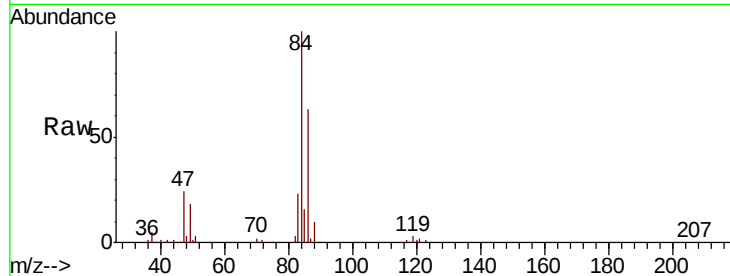




#25
Chloroform
Concen: 1.338 ug/L
RT: 7.68 min Scan# 948
Delta R.T. 0.00 min
Lab File: VW016587.D
Acq: 18 Sep 2020 16:08

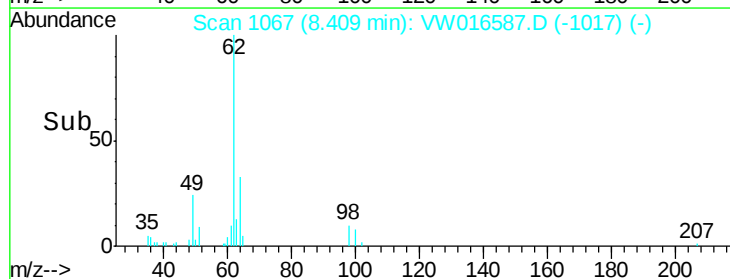
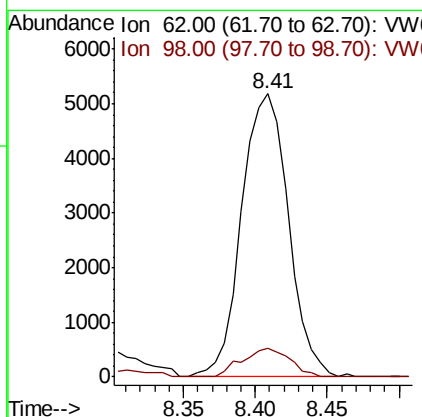
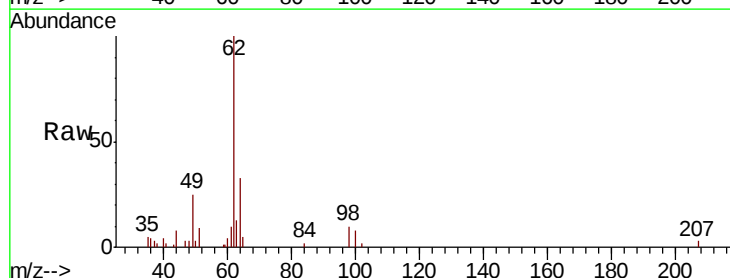
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-02

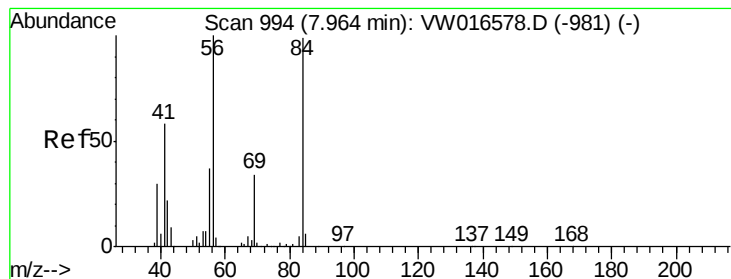
Tot Ion: 83 Resp: 18075
Ion Ratio Lower Upper
83 100
85 66.6 45.4 84.4



#27
1,2-Dichloroethane
Concen: 1.389 ug/L
RT: 8.41 min Scan# 1067
Delta R.T. 0.01 min
Lab File: VW016587.D
Acq: 18 Sep 2020 16:08

Tgt Ion: 62 Resp: 11655
Ion Ratio Lower Upper
62 100
98 10.0 7.3 10.9





#29

Cvclohexane

Concen: 1.176 ug/L

RT: 7.96 min Scan# 993

Delta R.T. -0.01 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-02

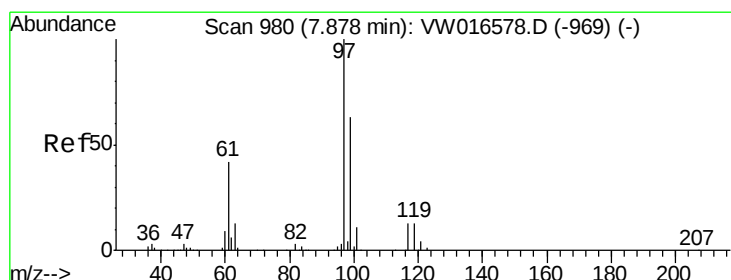
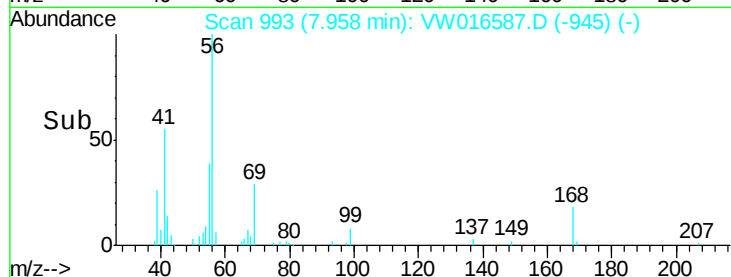
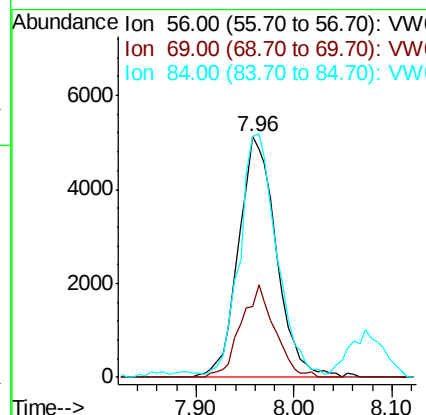
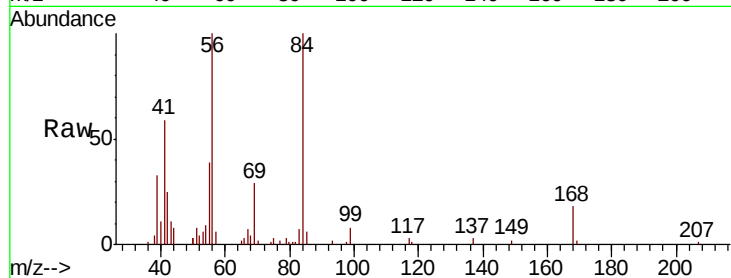
Tot Ion: 56 Resp: 13695

Ion Ratio Lower Upper

56 100

69 34.1 26.4 39.6

84 99.7 79.9 119.9



#30

1,1,1-Trichloroethane

Concen: 1.169 ug/L

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

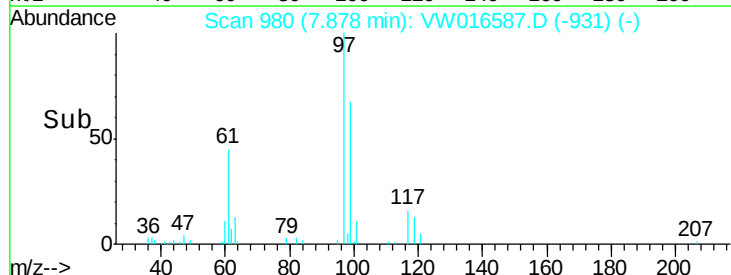
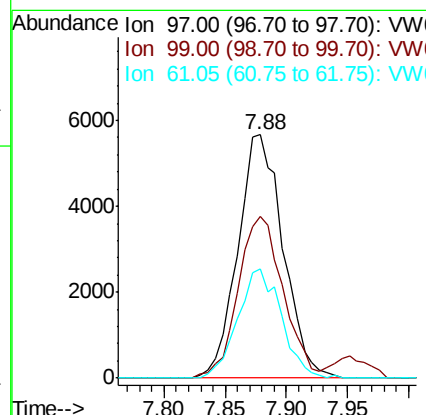
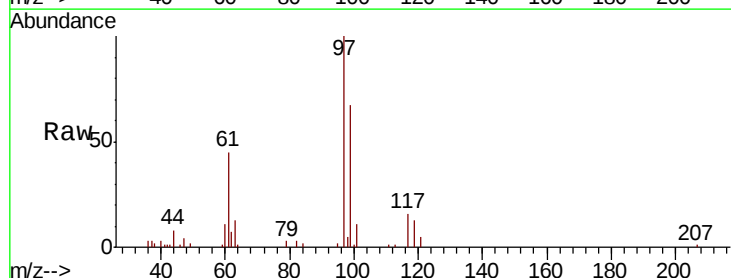
Tgt Ion: 97 Resp: 14529

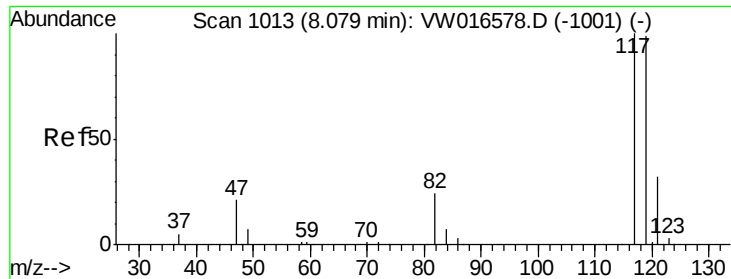
Ion Ratio Lower Upper

97 100

99 66.0 50.9 76.3

61 43.1 33.2 49.8

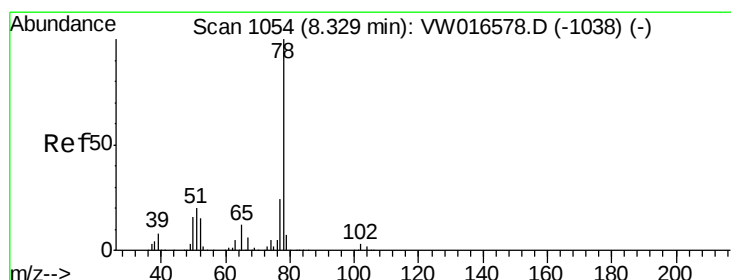
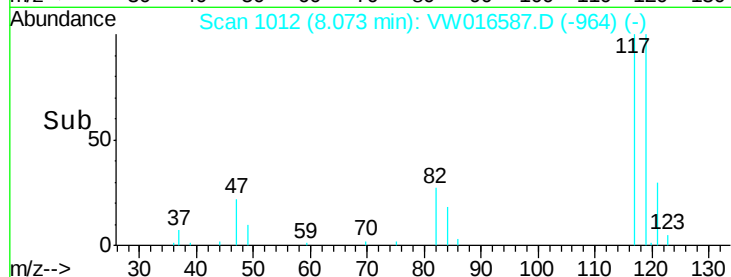
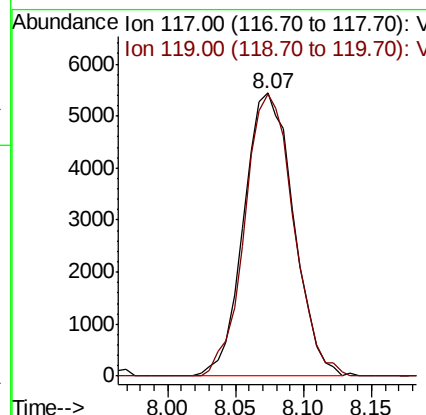
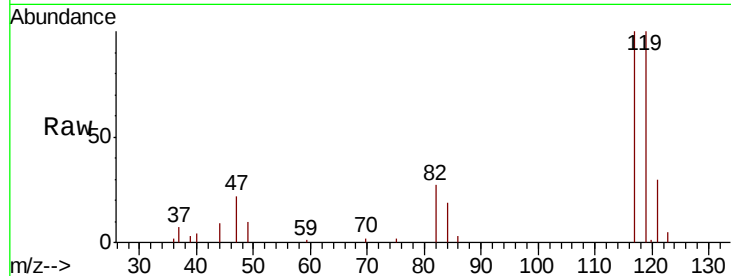




#31
Carbon tetrachloride
Concen: 1.147 ug/L
RT: 8.07 min Scan# 1012
Delta R.T. -0.01 min
Lab File: VW016587.D
Acq: 18 Sep 2020 16:08

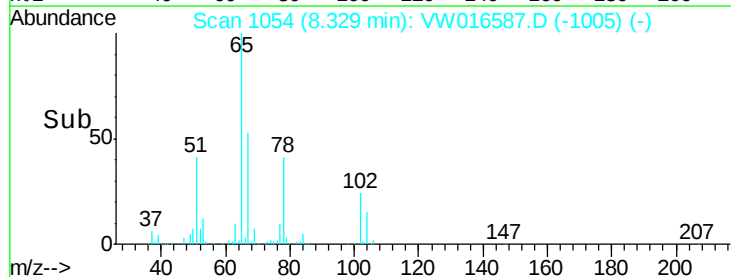
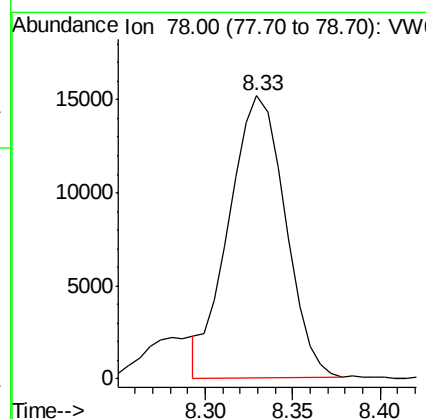
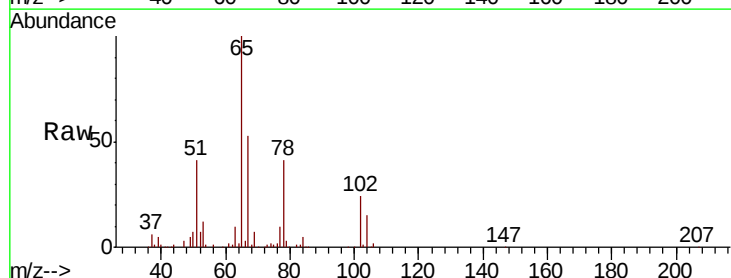
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-02

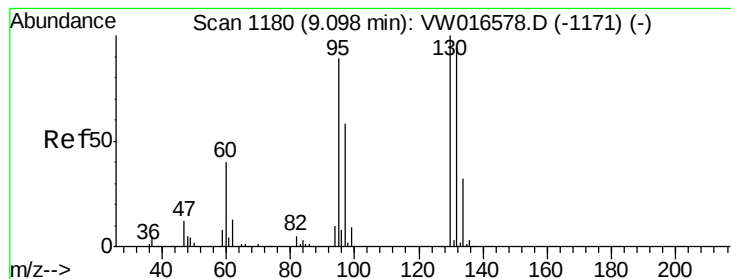
Tot Ion:117 Resp: 13890
Ion Ratio Lower Upper
117 100
119 98.2 76.7 115.1



#33
Benzene
Concen: 1.173 ug/L
RT: 8.33 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VW016587.D
Acq: 18 Sep 2020 16:08

Tgt Ion: 78 Resp: 33914





#34

Trichloroethene

Concen: 1.199 ug/L

RT: 9.10 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Instrument :

MSVOA_W

ClientSampled :

MDL-SOIL-02

Tot Ion: 95 Resp: 9939

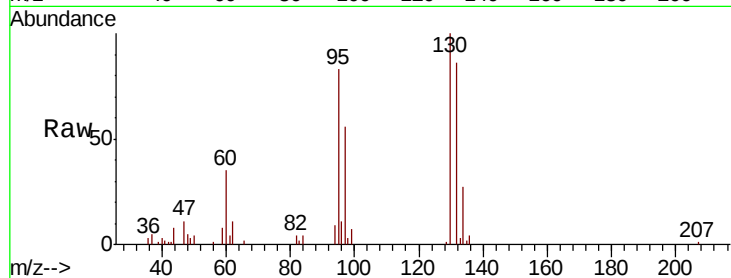
Ion Ratio Lower Upper

95 100

97 67.6 45.1 83.9

132 103.4 73.8 137.2

130 120.4 78.3 145.5

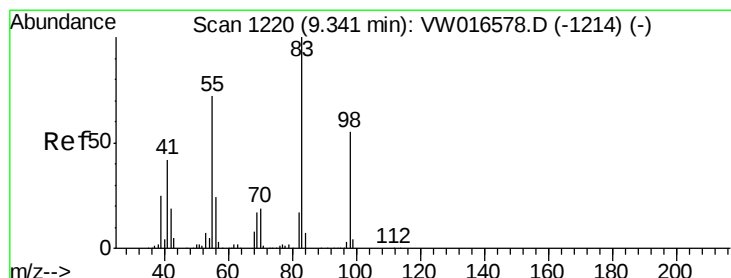
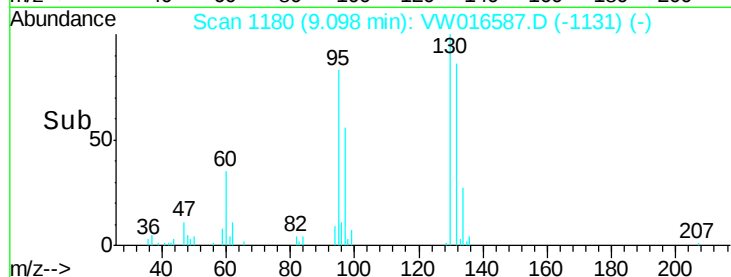
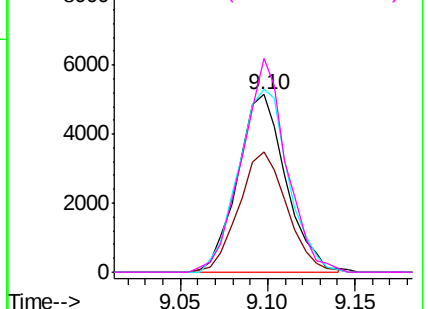


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 1.202 ug/L

RT: 9.34 min Scan# 1220

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

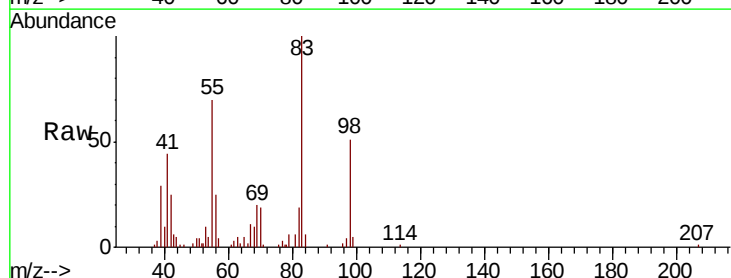
Tgt Ion: 83 Resp: 16648

Ion Ratio Lower Upper

83 100

55 71.0 55.9 83.9

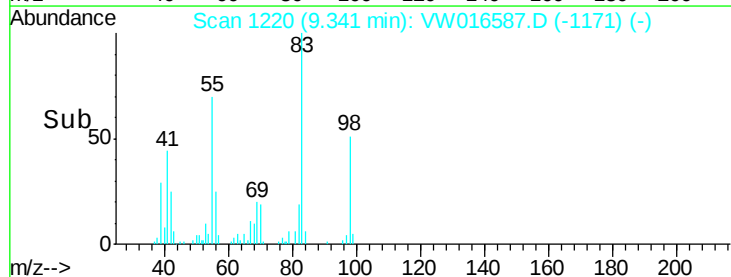
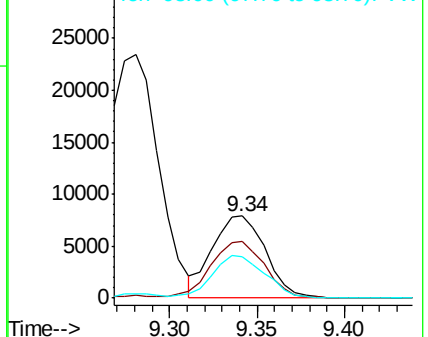
98 51.8 41.5 62.3

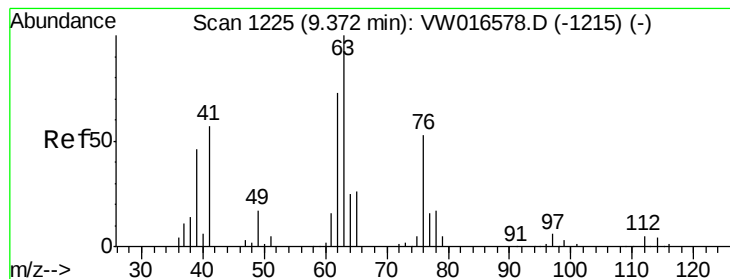


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#37

1,2-Dichloropropane

Concen: 1.280 ug/L

RT: 9.37 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Instrument :

MSVOA_W

ClientSampleId :

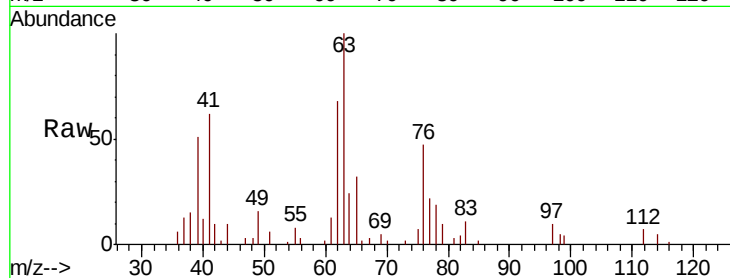
MDL-SOIL-02

Tot Ion: 63 Resp: 8437

Ion Ratio Lower Upper

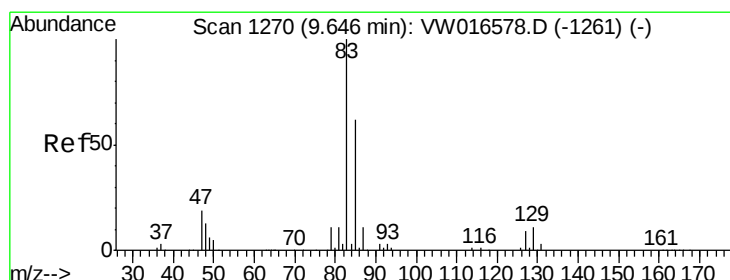
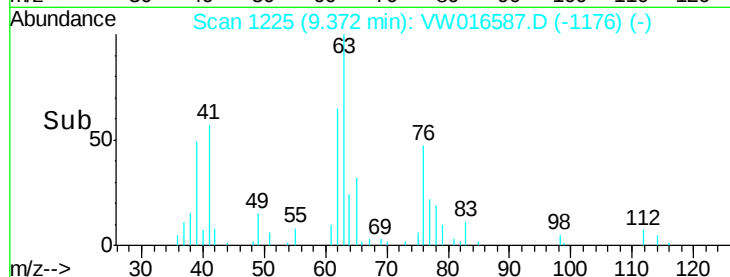
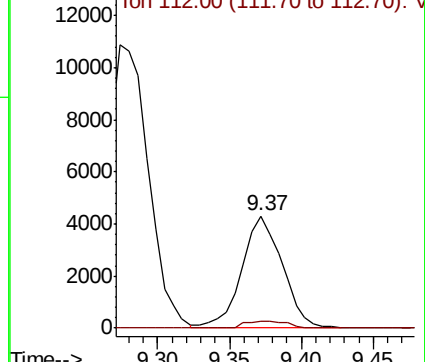
63 100

112 6.4 4.2 6.4#



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#38

Bromodichloromethane

Concen: 1.218 ug/L

RT: 9.65 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

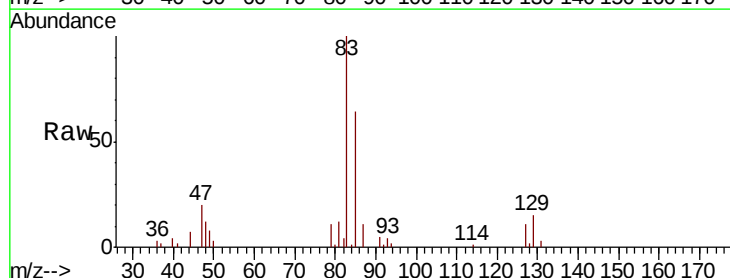
Tgt Ion: 83 Resp: 11902

Ion Ratio Lower Upper

83 100

85 63.9 43.7 81.1

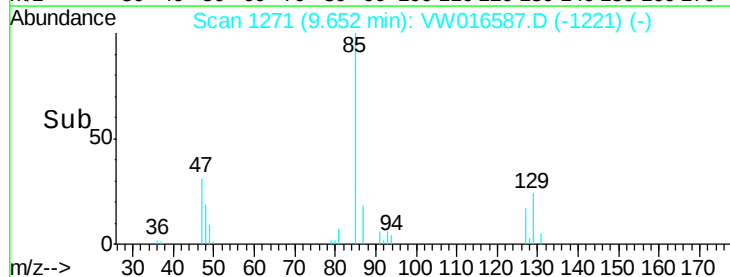
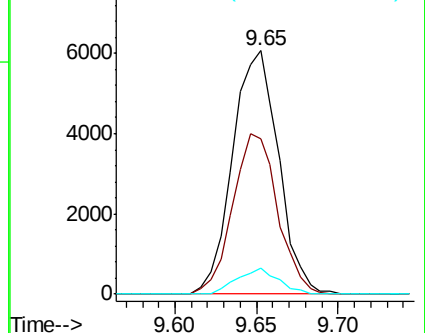
127 10.7 7.4 11.2

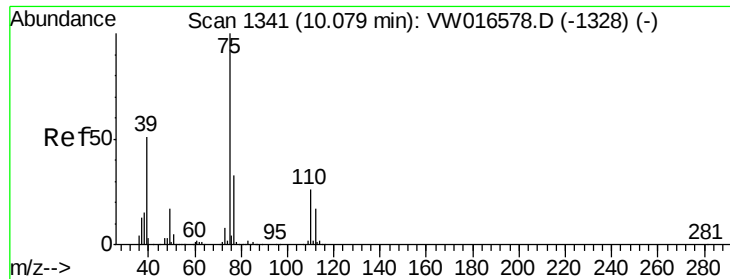


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V

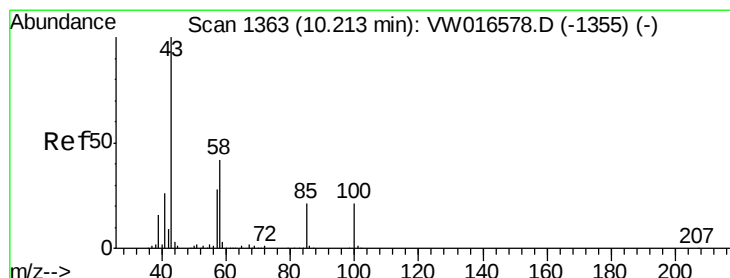
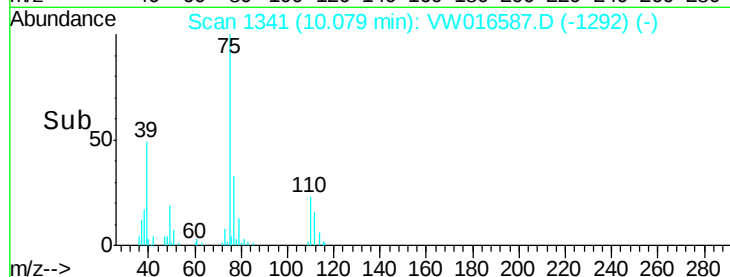
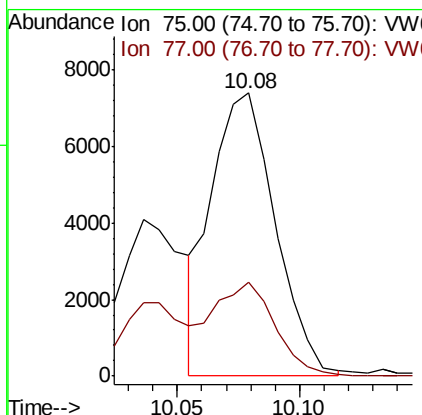
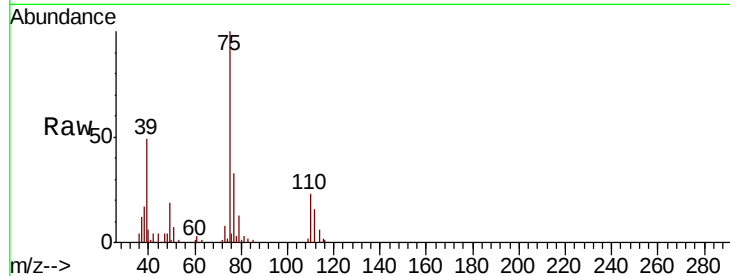




#39
 cis-1,3-Dichloropropene
 Concen: 1.192 ug/L
 RT: 10.08 min Scan# 1341
 Delta R.T. 0.00 min
 Lab File: VW016587.D
 Acq: 18 Sep 2020 16:08

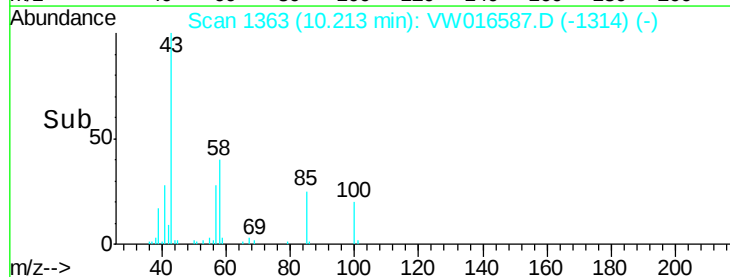
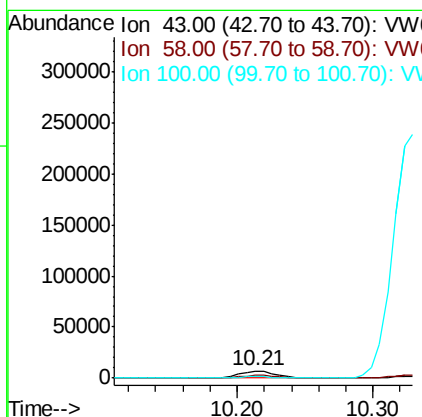
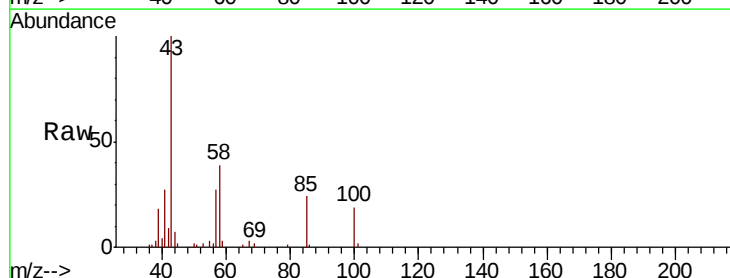
Instrument :
 MSVOA_W
 ClientSampled :
 MDL-SOIL-02

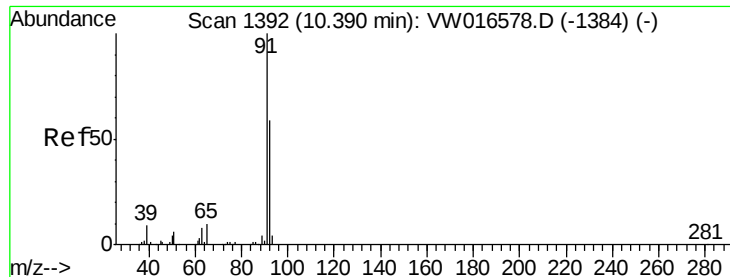
Tot Ion: 75 Resp: 13406
 Ion Ratio Lower Upper
 75 100
 77 33.1 23.0 42.6



#40
 4-Methyl-2-pentanone
 Concen: 3.495 ug/L
 RT: 10.21 min Scan# 1363
 Delta R.T. 0.00 min
 Lab File: VW016587.D
 Acq: 18 Sep 2020 16:08

Tgt Ion: 43 Resp: 12906
 Ion Ratio Lower Upper
 43 100
 58 40.9 33.0 49.4
 100 19.1 16.0 24.0





#42

Toluene

Concen: 1.207 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Instrument :

MSVOA_W

ClientSampled :

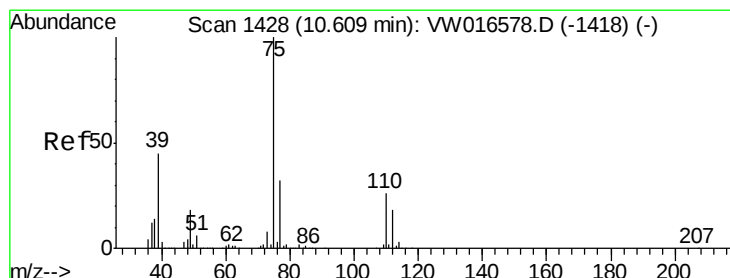
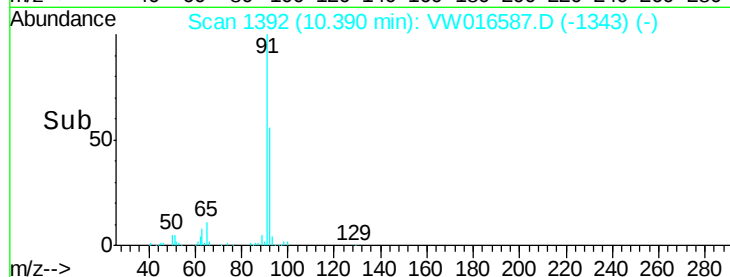
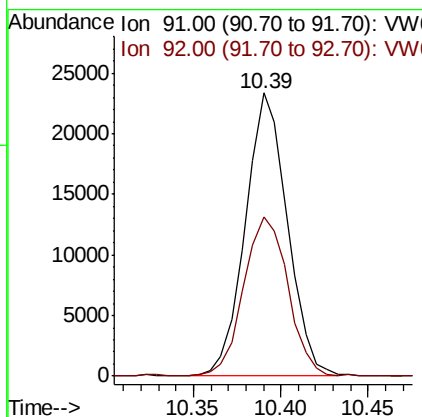
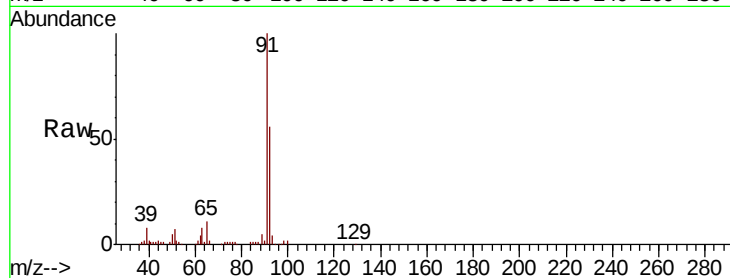
MDL-SOIL-02

Tot Ion: 91 Resp: 39308

Ion Ratio Lower Upper

91 100

92 56.1 41.1 76.3



#44

trans-1,3-Dichloropropene

Concen: 1.686 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW016587.D

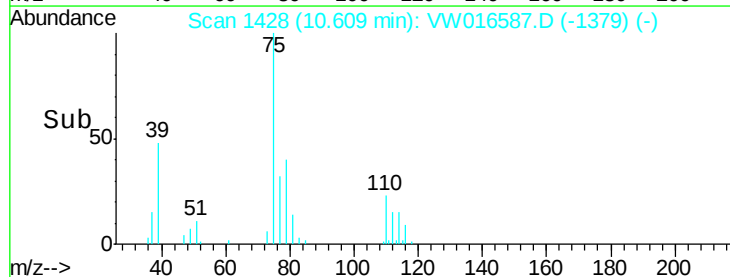
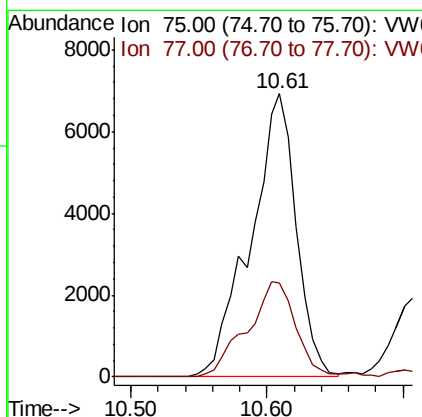
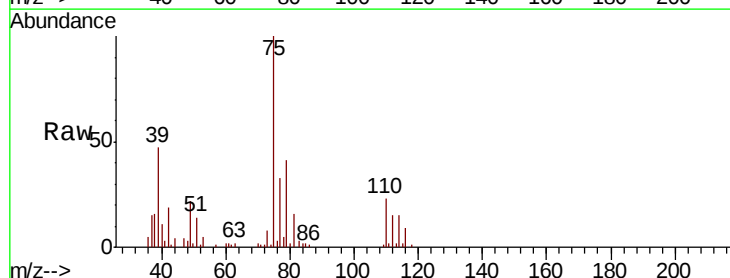
Acq: 18 Sep 2020 16:08

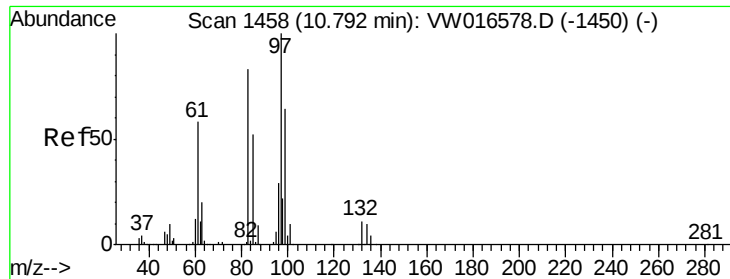
Tgt Ion: 75 Resp: 16272

Ion Ratio Lower Upper

75 100

77 33.3 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 1.317 ug/L

RT: 10.79 min Scan# 1458

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Instrument :

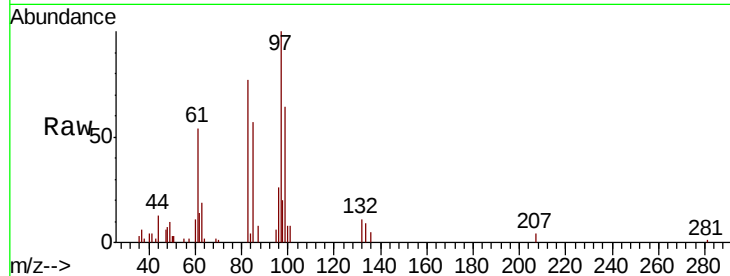
MSVOA_W

ClientSampleId :

MDL-SOIL-02

Tot Ion: 97 Resp: 7048

Ion	Ratio	Lower	Upper
97	100		
99	63.7	44.5	82.7
83	76.7	58.4	108.4
85	57.3	36.8	68.3



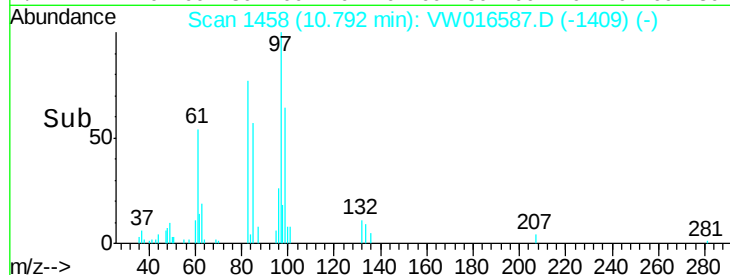
Abundance

Ion 97.00 (96.70 to 97.70): VW

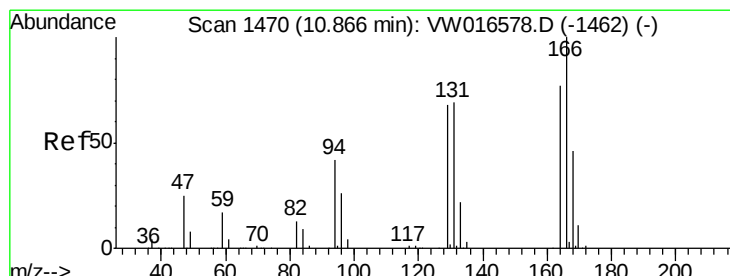
Ion 99.00 (98.70 to 99.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



Time-->



#46

Tetrachloroethene

Concen: 1.222 ug/L

RT: 10.87 min Scan# 1470

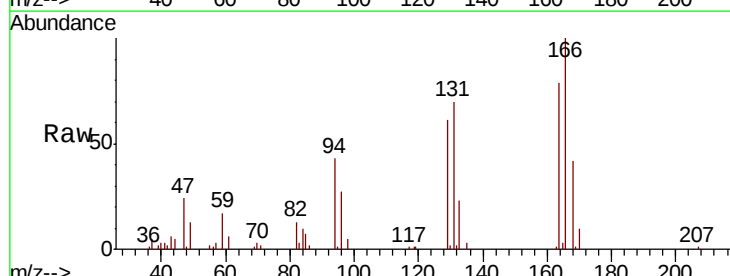
Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Tgt Ion: 164 Resp: 9137

Ion	Ratio	Lower	Upper
164	100		
129	74.7	61.4	114.0
131	86.1	62.8	116.6
166	122.5	90.8	168.6



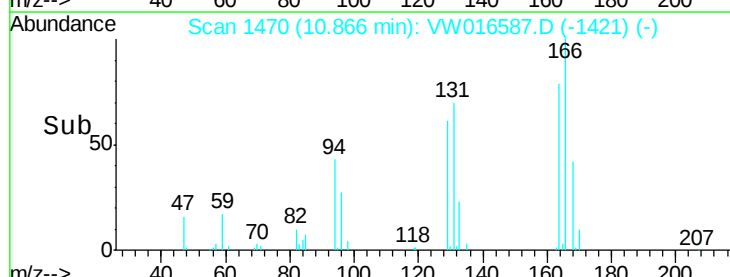
Abundance

Ion 164.00 (163.70 to 164.70): V

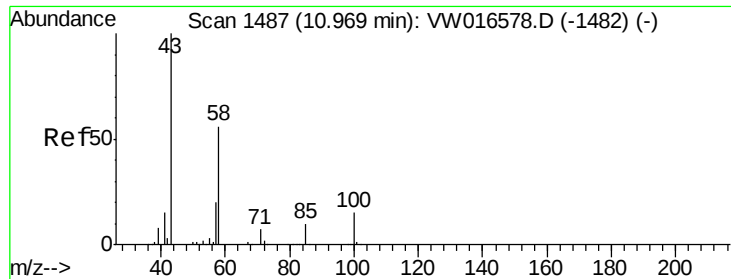
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



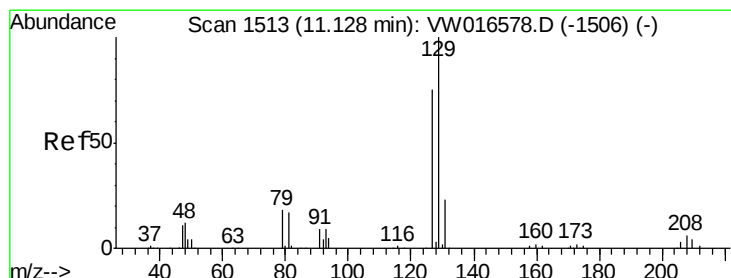
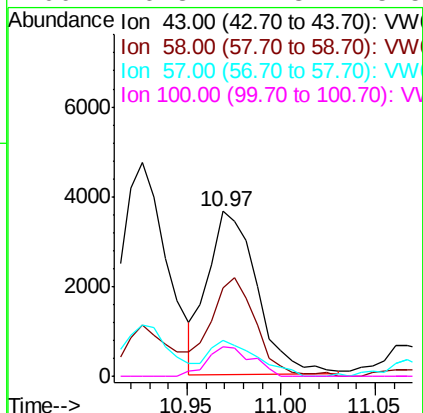
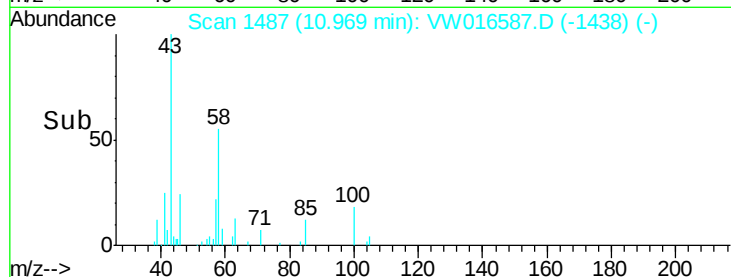
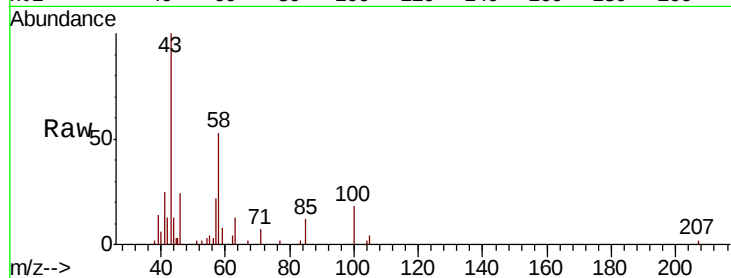
Time-->



#48
2-Hexanone
Concen: 2.885 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW016587.D
Acq: 18 Sep 2020 16:08

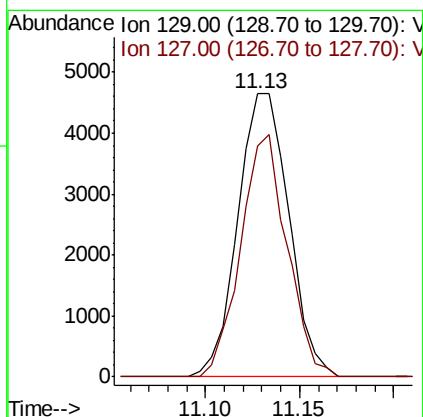
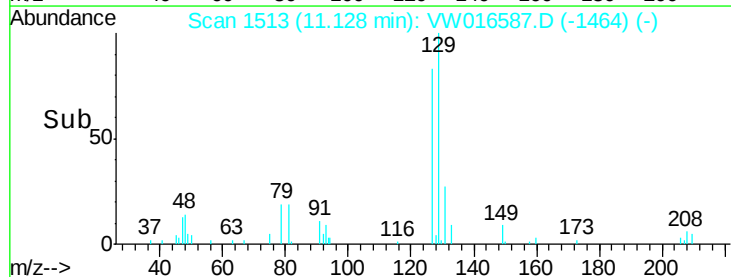
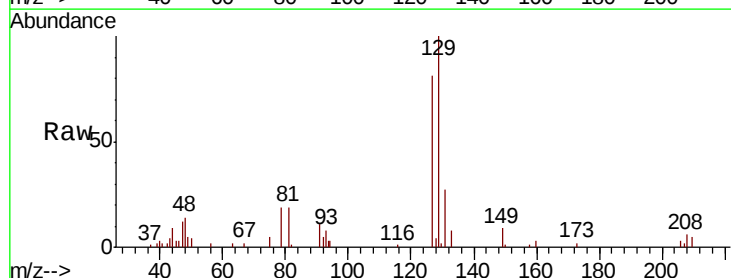
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-02

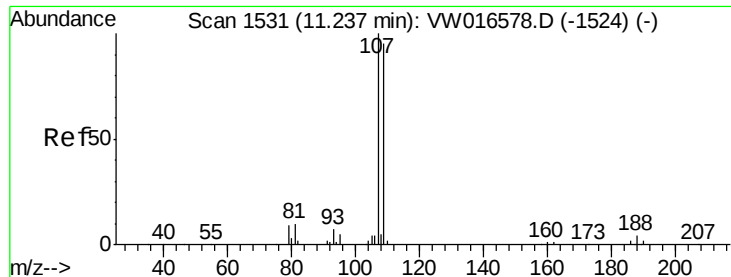
Tot Ion: 43 Resp: 6624
Ion Ratio Lower Upper
43 100
58 57.0 45.9 68.9
57 20.5 16.6 24.8
100 16.3 12.3 18.5



#49
Dibromochloromethane
Concen: 1.243 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW016587.D
Acq: 18 Sep 2020 16:08

Tgt Ion: 129 Resp: 8737
Ion Ratio Lower Upper
129 100
127 81.4 52.5 97.5

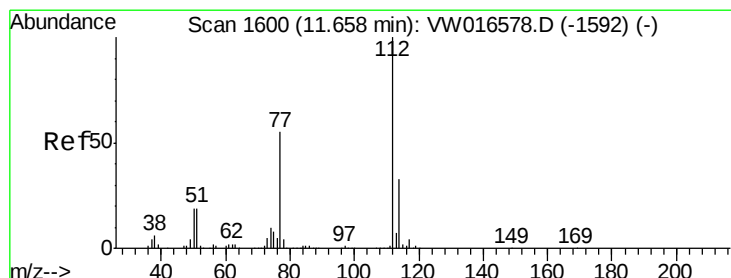
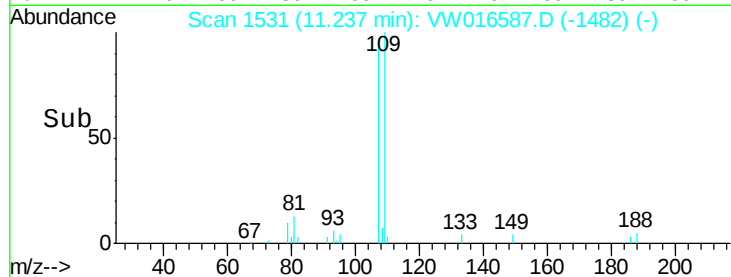
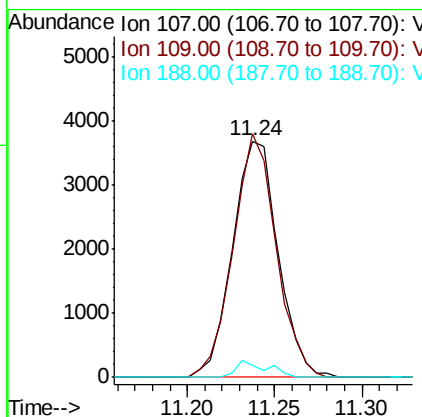
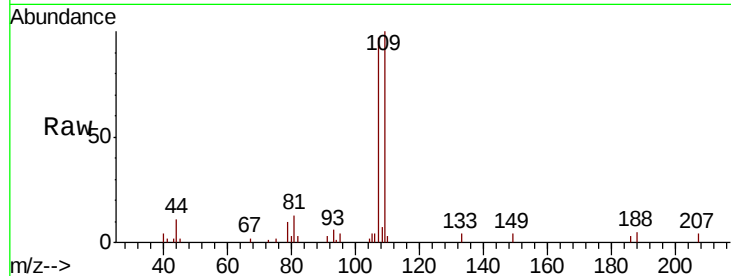




#50
 1,2-Dibromoethane
 Concen: 1.260 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.00 min
 Lab File: VW016587.D
 Acq: 18 Sep 2020 16:08

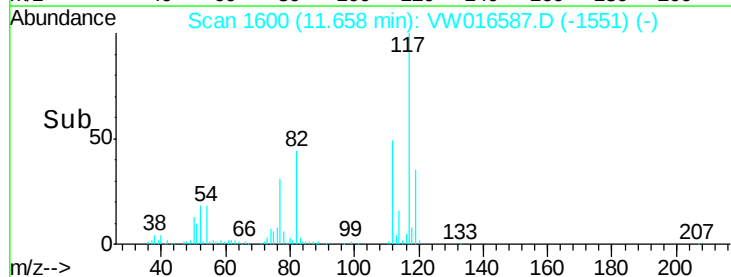
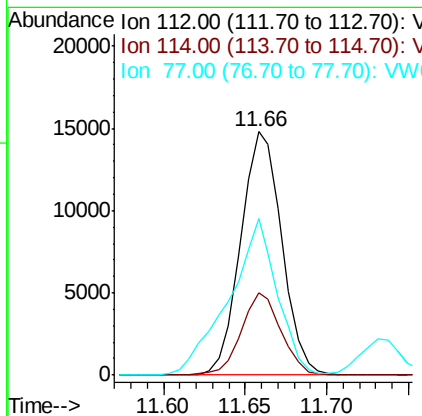
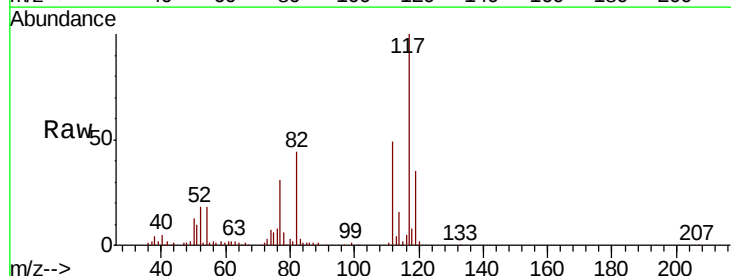
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-02

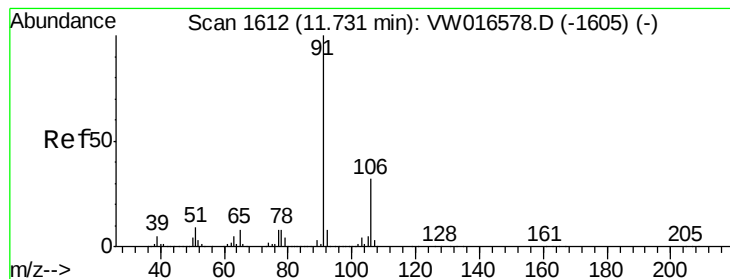
Tot Ion:107 Resp: 6679
 Ion Ratio Lower Upper
 107 100
 109 103.0 66.2 123.0
 188 5.1 3.3 4.9#



#51
 Chlorobenzene
 Concen: 1.196 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VW016587.D
 Acq: 18 Sep 2020 16:08

Tgt Ion:112 Resp: 25830
 Ion Ratio Lower Upper
 112 100
 114 34.0 22.9 42.5
 77 64.6 43.8 65.8





#52

Ethylbenzene

Concen: 1.192 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Instrument :

MSVOA_W

ClientSampleId :

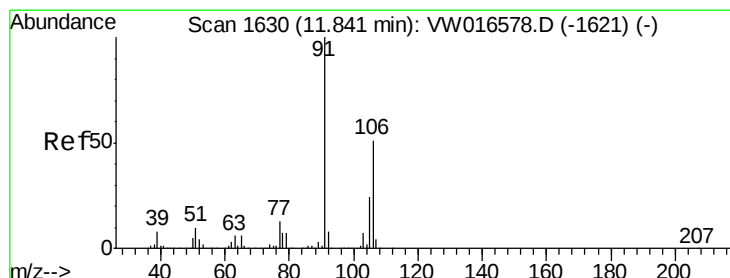
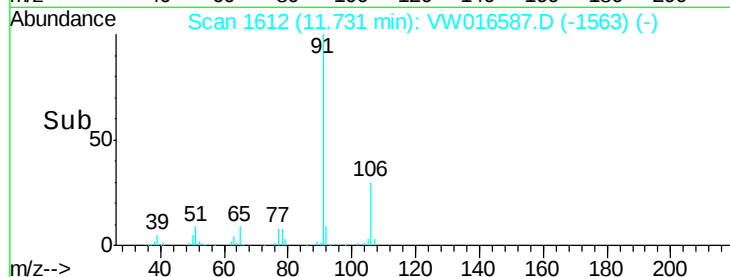
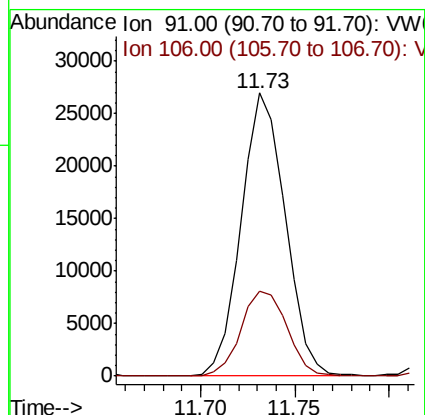
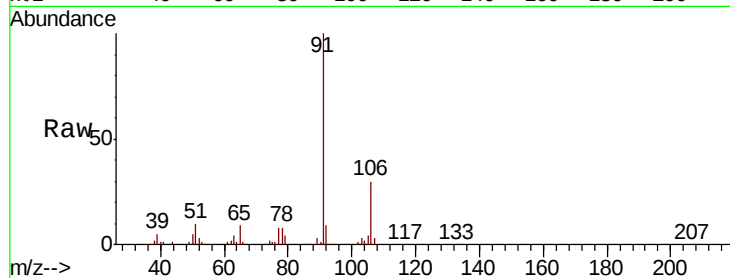
MDL-SOIL-02

Tot Ion: 91 Resp: 43706

Ion Ratio Lower Upper

91 100

106 30.1 22.0 41.0



#53

m,p-Xylene

Concen: 1.190 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW016587.D

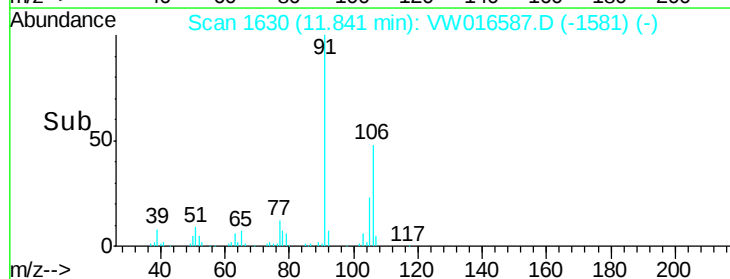
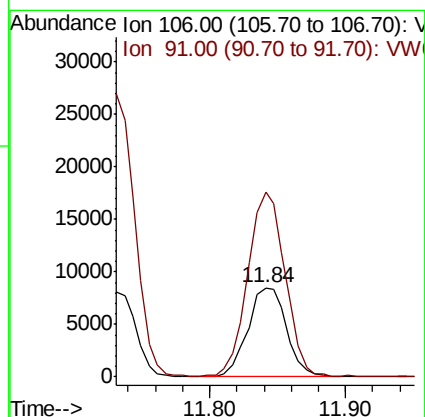
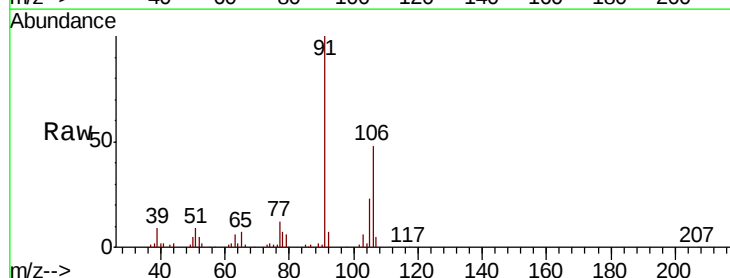
Acq: 18 Sep 2020 16:08

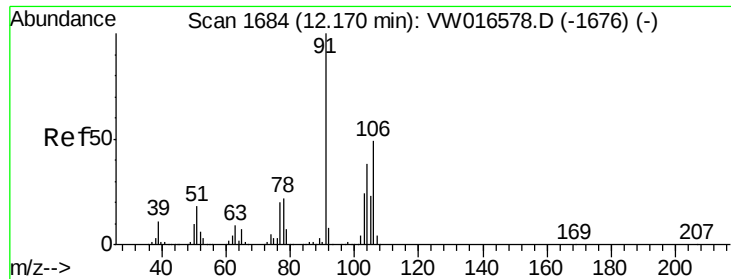
Tgt Ion: 106 Resp: 16997

Ion Ratio Lower Upper

106 100

91 206.7 136.2 252.9

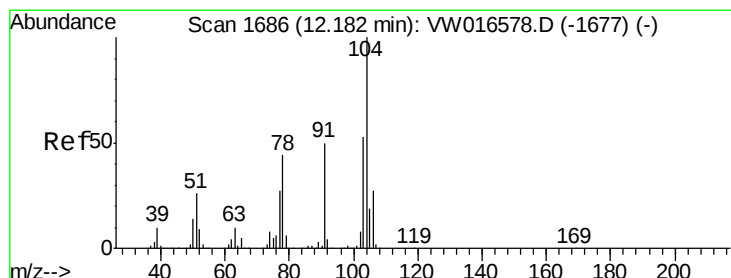
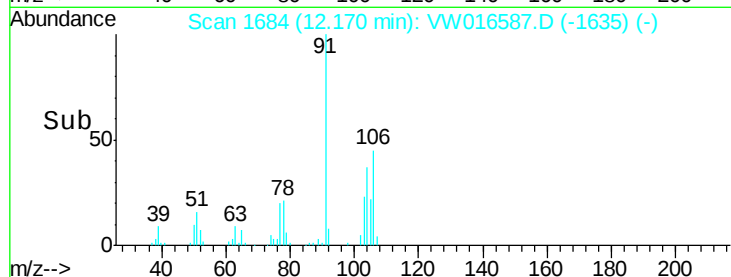
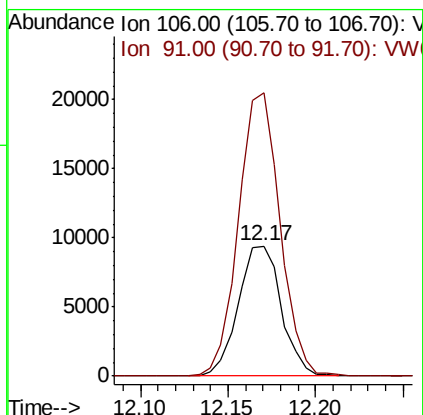
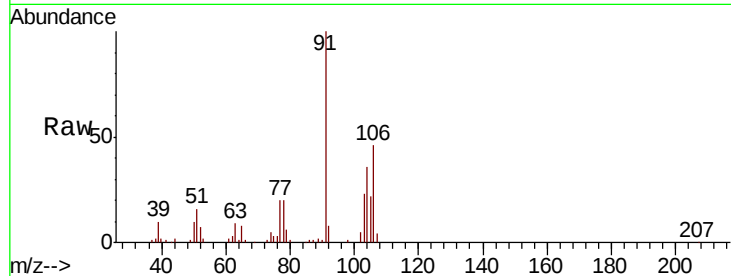




#54
o-Xylene
Concen: 1.190 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW016587.D
Acq: 18 Sep 2020 16:08

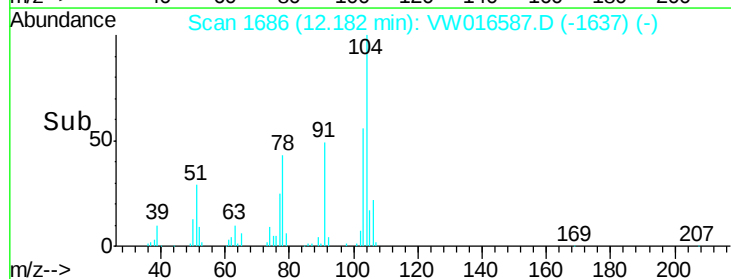
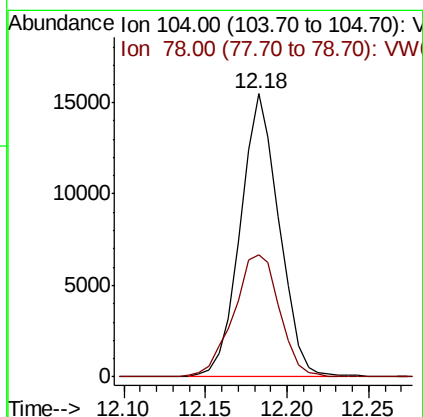
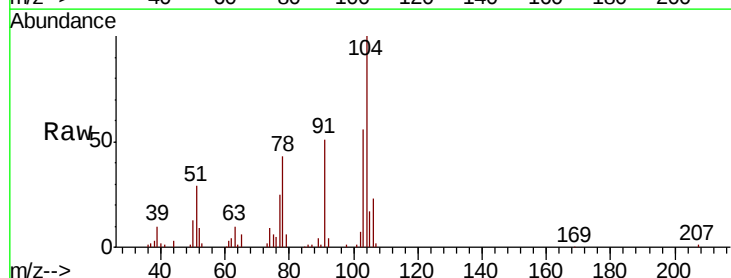
Instrument :
MSVOA_W
ClientSampled :
MDL-SOIL-02

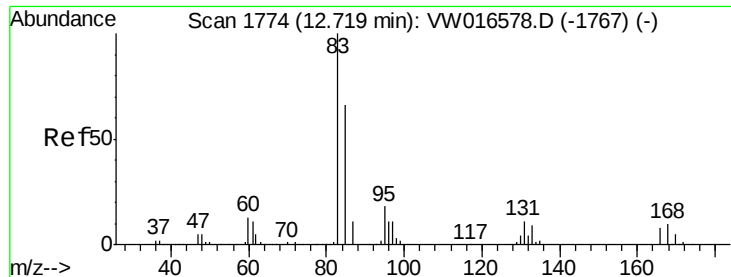
Tot Ion:106 Resp: 16083
Ion Ratio Lower Upper
106 100
91 217.4 143.4 266.2



#55
Styrene
Concen: 1.137 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW016587.D
Acq: 18 Sep 2020 16:08

Tgt Ion:104 Resp: 25587
Ion Ratio Lower Upper
104 100
78 43.1 31.1 57.9

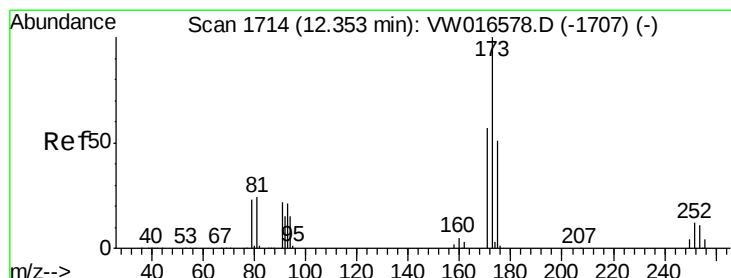
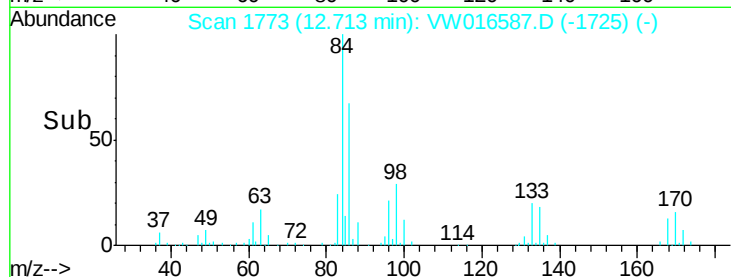
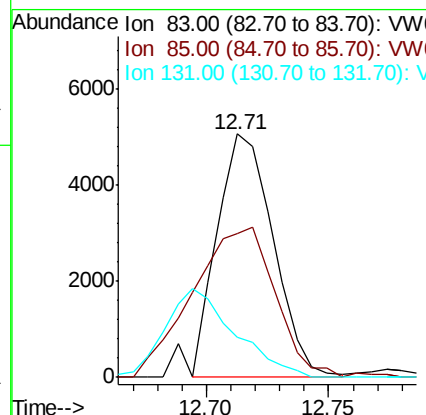
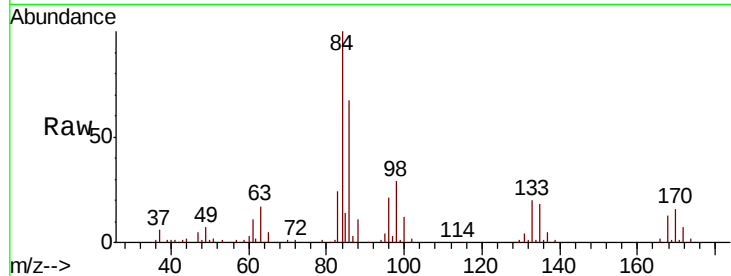




#57
 1,1,2,2-Tetrachloroethane
 Concen: 1.411 ug/L
 RT: 12.71 min Scan# 1773
 Delta R.T. -0.01 min
 Lab File: VW016587.D
 Acq: 18 Sep 2020 16:08

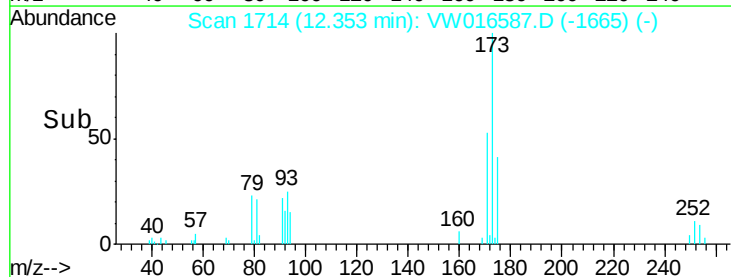
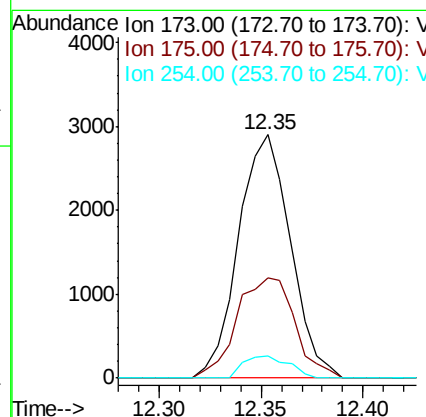
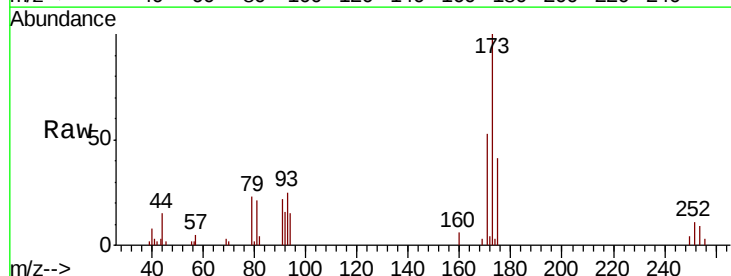
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-02

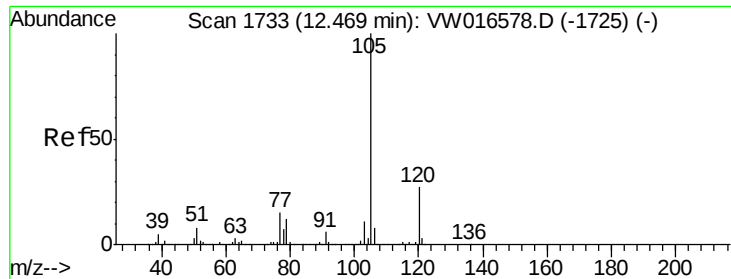
Tot Ion: 83 Resp: 8134
 Ion Ratio Lower Upper
 83 100
 85 59.0 46.3 85.9
 131 16.4 9.3 13.9#



#59
 Bromoform
 Concen: 1.195 ug/L
 RT: 12.35 min Scan# 1714
 Delta R.T. 0.00 min
 Lab File: VW016587.D
 Acq: 18 Sep 2020 16:08

Tgt Ion: 173 Resp: 5123
 Ion Ratio Lower Upper
 173 100
 175 46.0 39.7 59.5
 254 8.0 8.2 12.2#





#60

Isopropylbenzene

Concen: 1.153 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-02

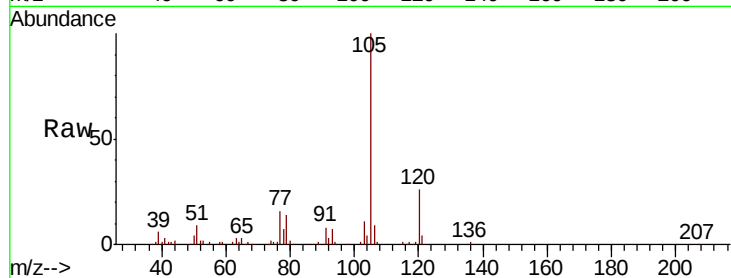
Tot Ion:105 Resp: 44688

Ion Ratio Lower Upper

105 100

120 26.3 21.8 32.8

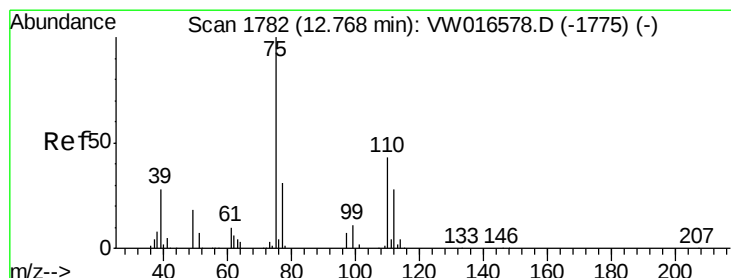
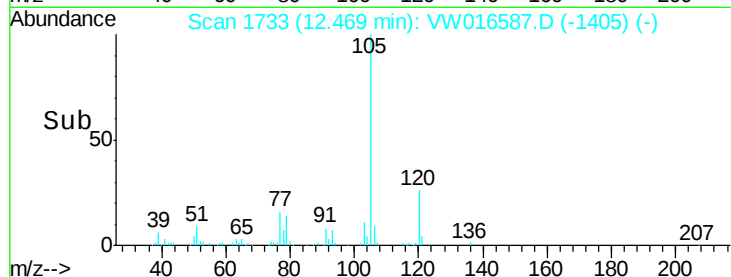
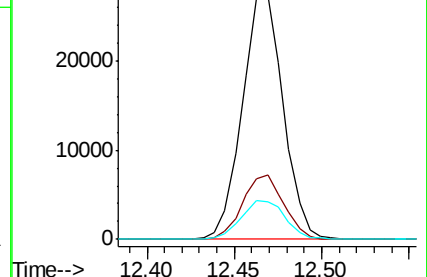
77 17.1 12.1 18.1



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): V



#61

1,2,3-Trichloropropane

Concen: 1.316 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

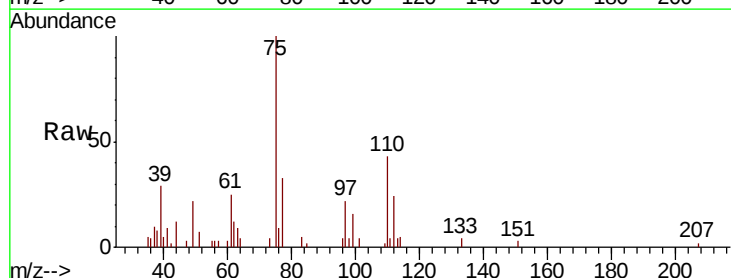
Tgt Ion: 75 Resp: 5757

Ion Ratio Lower Upper

75 100

77 35.1 25.8 38.8

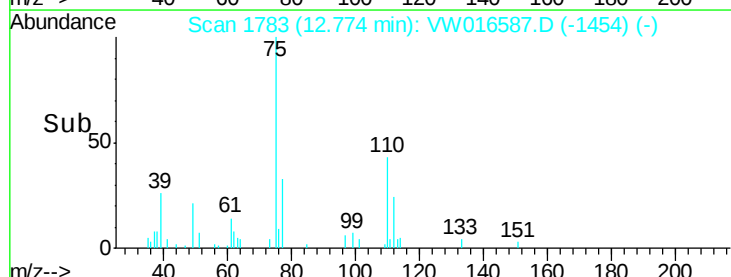
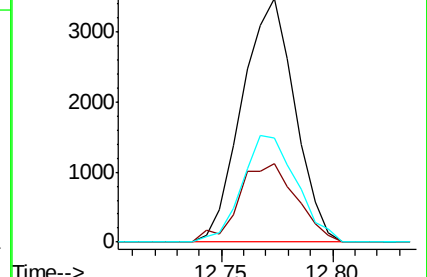
110 44.9 35.8 53.8

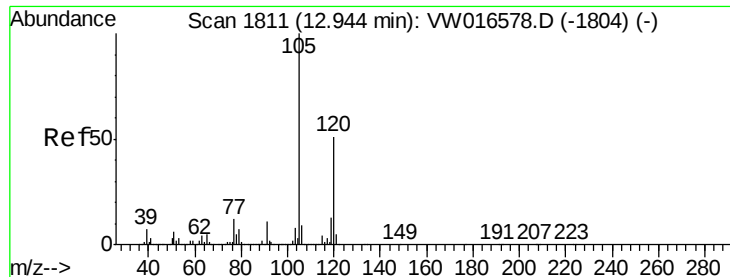


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 1.124 ug/L

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Instrument :

MSVOA_W

ClientSampled :

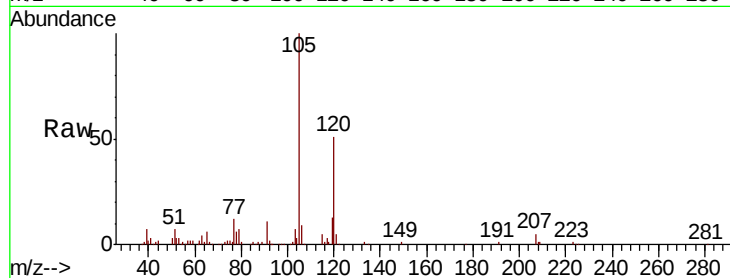
MDL-SOIL-02

Tot Ion:105 Resp: 35855

Ion Ratio Lower Upper

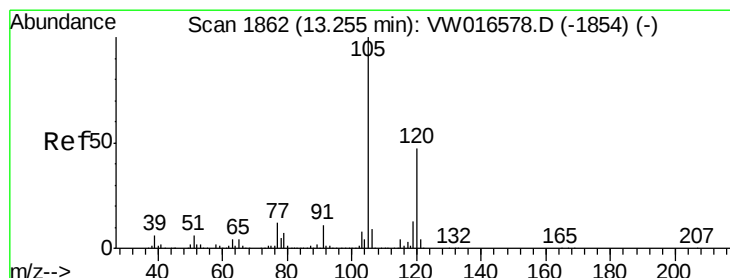
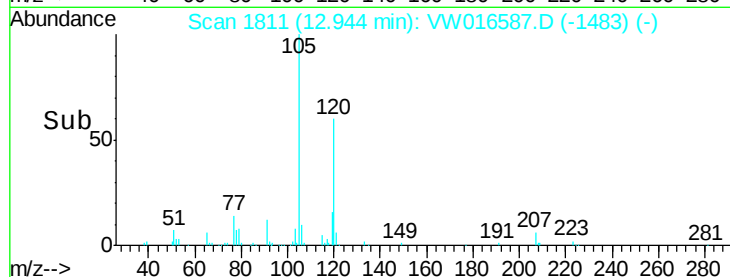
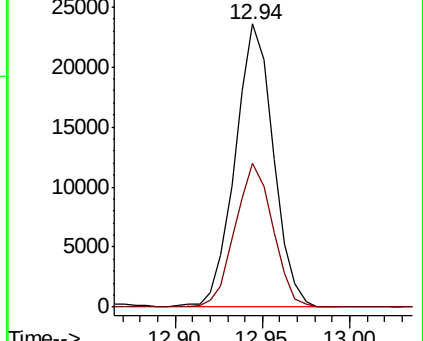
105 100

120 50.4 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: 1.137 ug/L

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW016587.D

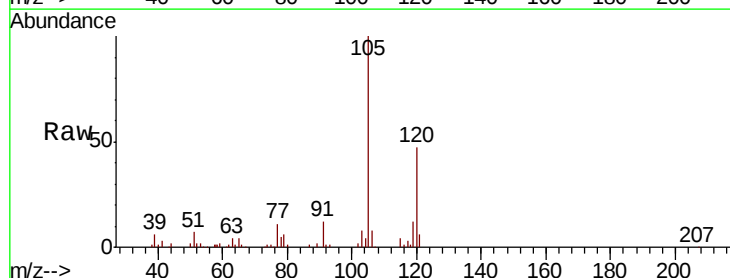
Acq: 18 Sep 2020 16:08

Tgt Ion:105 Resp: 36040

Ion Ratio Lower Upper

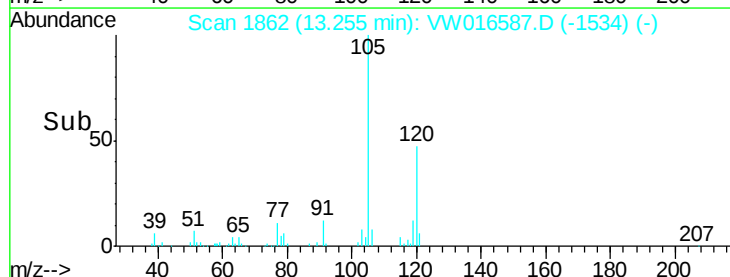
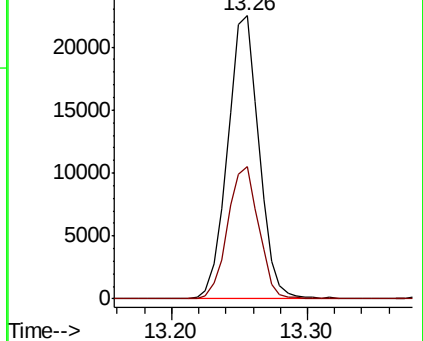
105 100

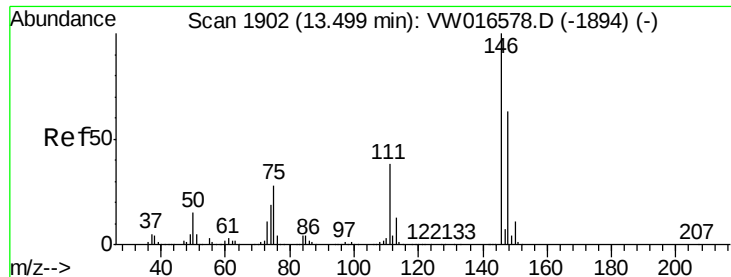
120 46.1 36.4 54.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 1.203 ug/L

RT: 13.51 min Scan# 1903

Delta R.T. 0.01 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-02

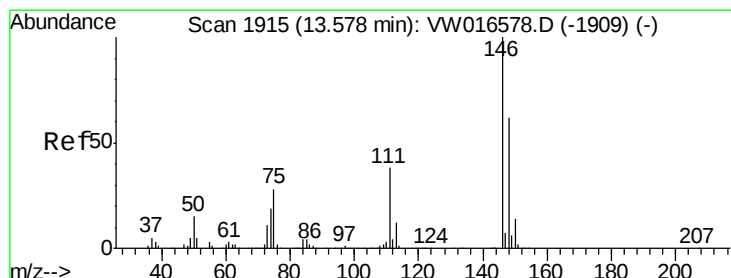
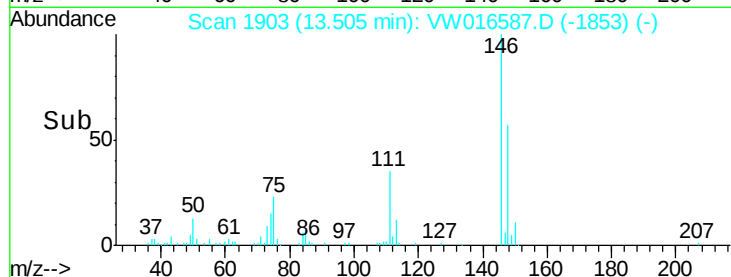
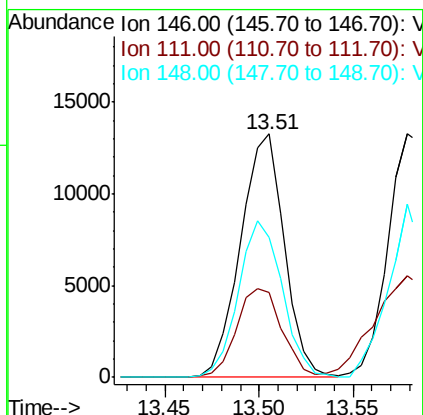
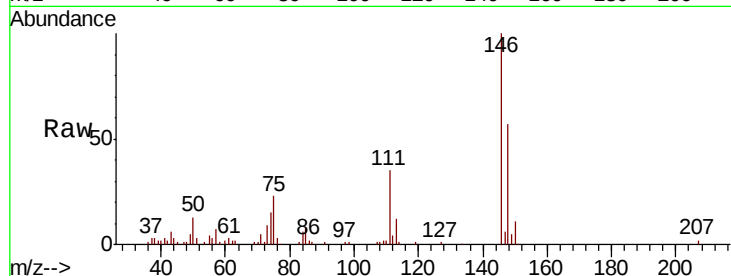
Tot Ion:146 Resp: 21410

Ion Ratio Lower Upper

146 100

111 35.0 26.5 49.3

148 57.4 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: VW016587.D

Acq: 18 Sep 2020 16:08

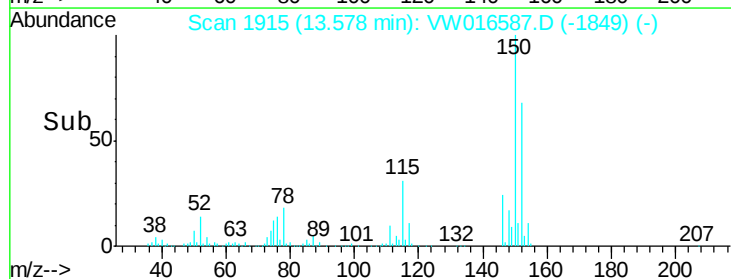
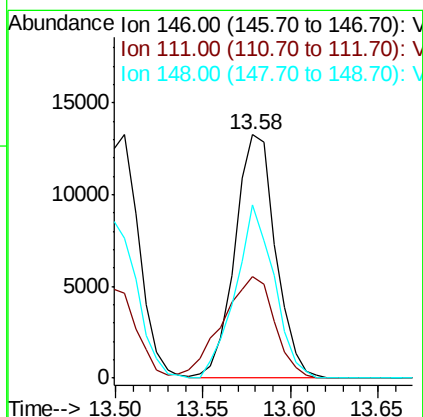
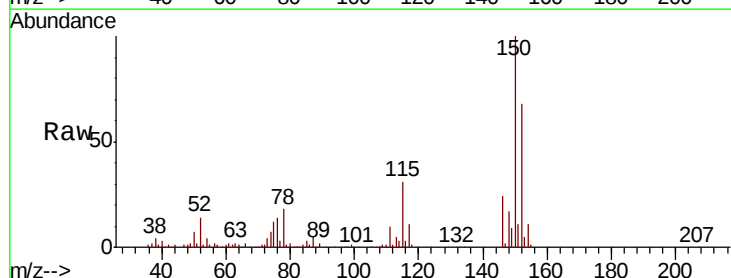
Tgt Ion:146 Resp: 21483

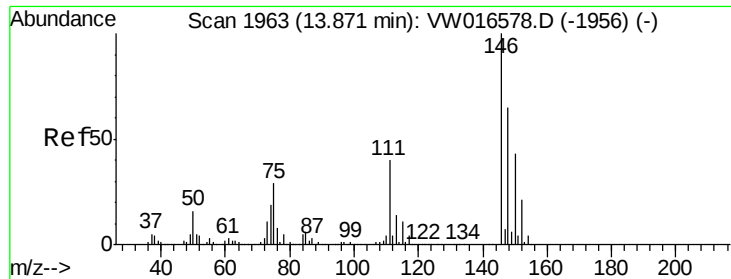
Ion Ratio Lower Upper

146 100

111 41.6 26.5 49.3

148 71.3 43.8 81.4





#67

1,2-Dichlorobenzene

Concen: 1.190 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-02

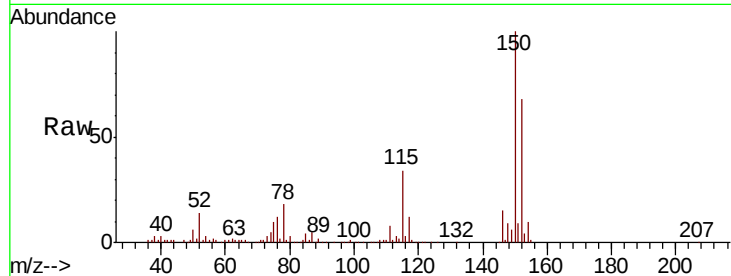
Tot Ion:146 Resp: 18736

Ion Ratio Lower Upper

146 100

111 51.7 32.4 48.6#

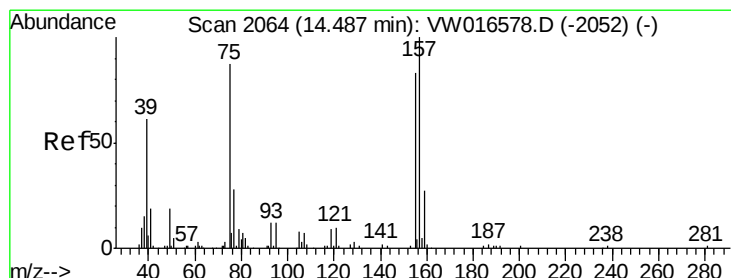
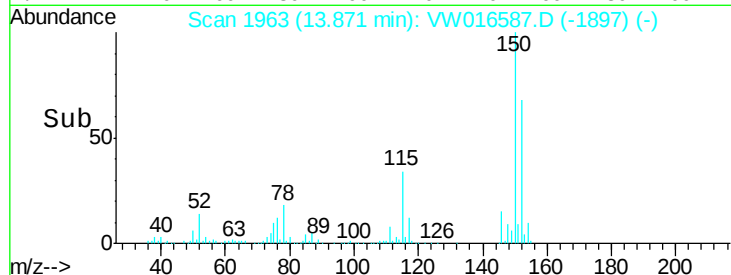
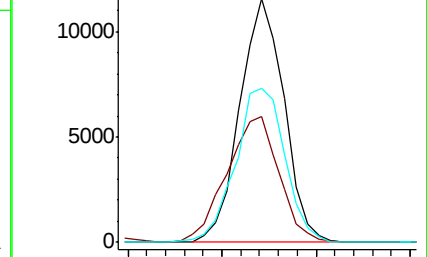
148 63.5 52.2 78.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2-Dibromo-3-chloropropane

Concen: 1.662 ug/L

RT: 14.49 min Scan# 2065

Delta R.T. 0.01 min

Lab File: VW016587.D

Acq: 18 Sep 2020 16:08

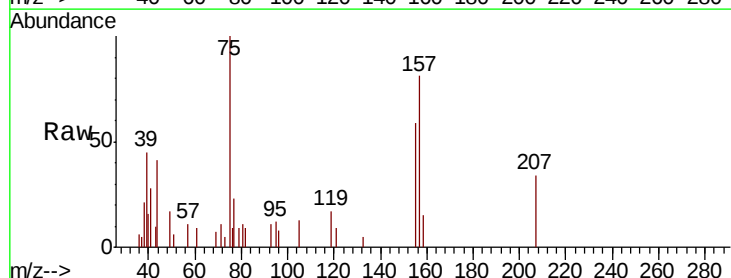
Tgt Ion: 75 Resp: 1710

Ion Ratio Lower Upper

75 100

155 59.3 76.6 115.0#

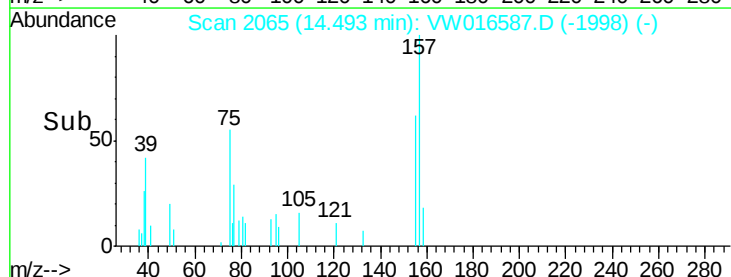
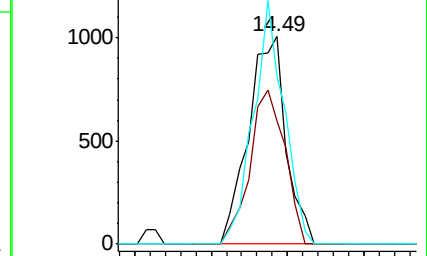
157 81.2 92.0 138.0#

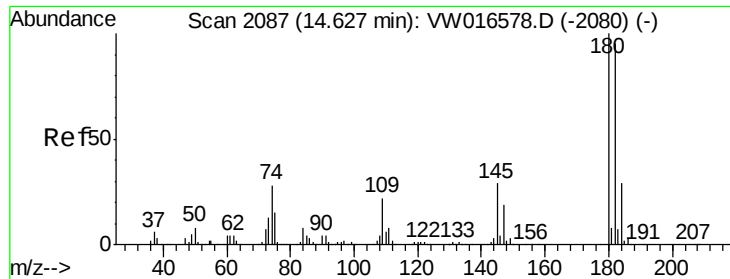


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

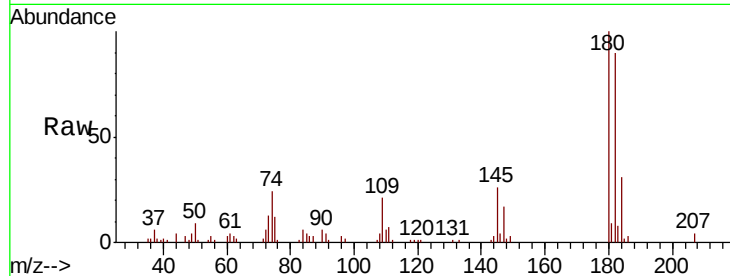




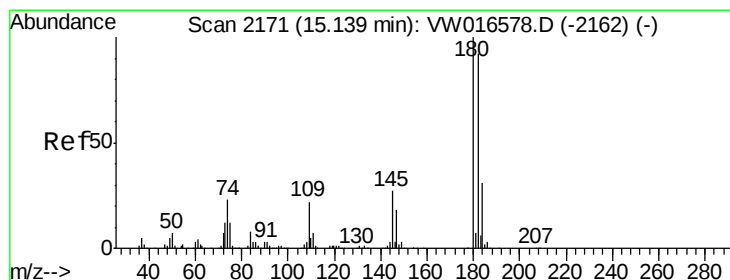
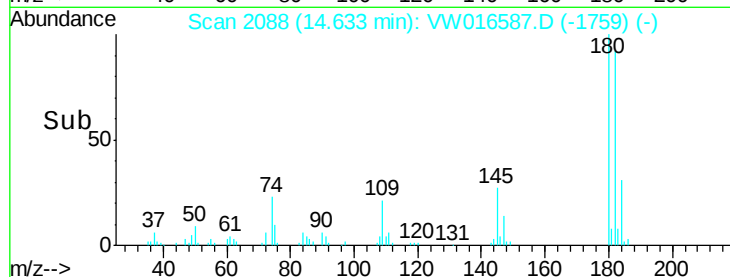
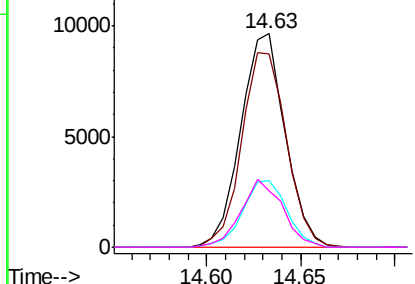
#69
 1,3,5-Trichlorobenzene
 Concen: 1.204 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.01 min
 Lab File: VW016587.D
 Acq: 18 Sep 2020 16:08

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-02

Tot Ion:180	Resp:	15819
Ion Ratio	Lower	Upper
180	100	
182	91.8	79.0 118.4
184	31.0	24.6 36.8
145	29.7	23.2 34.8

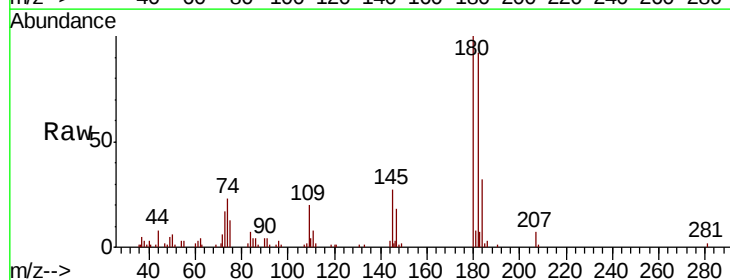


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

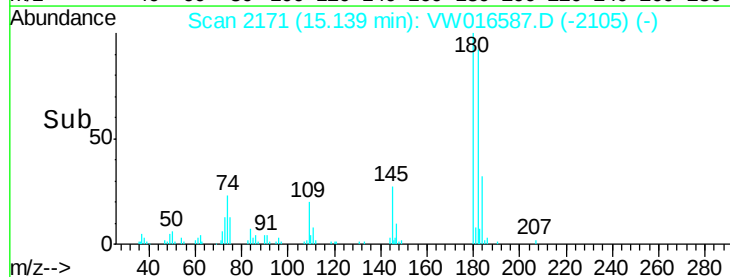
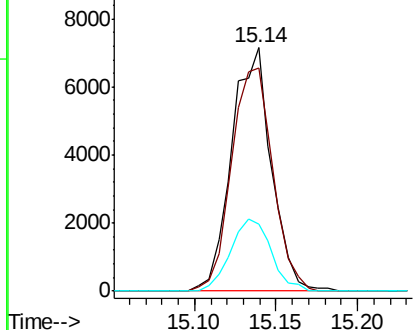


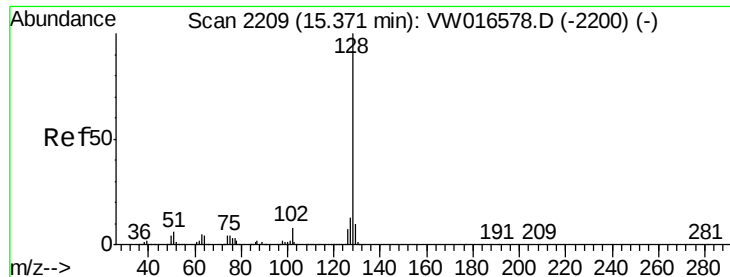
#70
 1,2,4-trichlorobenzene
 Concen: 1.143 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW016587.D
 Acq: 18 Sep 2020 16:08

Tgt Ion:180	Resp:	12125
Ion Ratio	Lower	Upper
180	100	
182	95.2	76.1 114.1
145	30.0	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

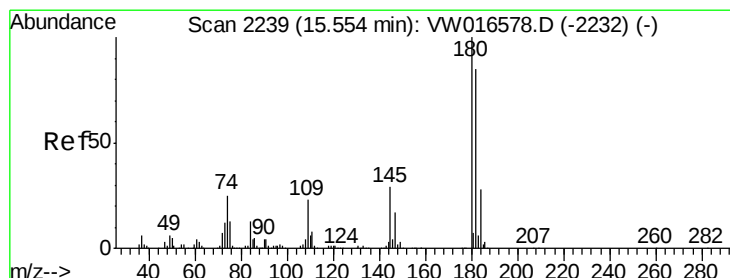
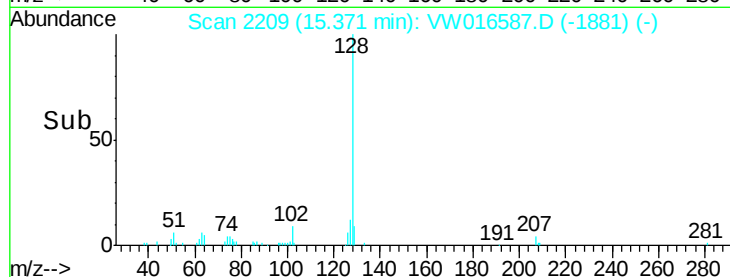
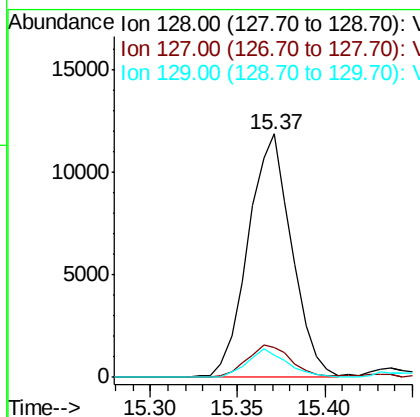
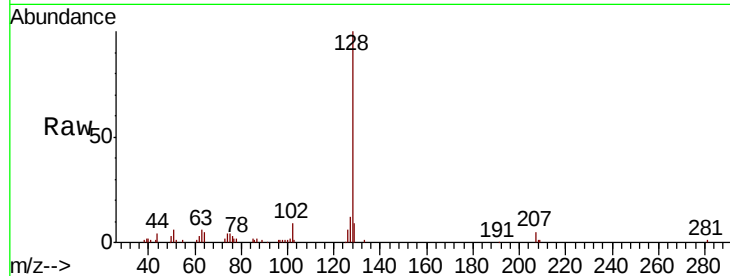




#71
Naphthalene
Concen: 1.163 ug/L
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW016587.D
Acq: 18 Sep 2020 16:08

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-02

Tot Ion:128 Resp: 20699
Ion Ratio Lower Upper
128 100
127 13.5 10.6 16.0
129 10.6 9.0 13.4



#72
1,2,3-Trichlorobenzene
Concen: 1.235 ug/L
RT: 15.56 min Scan# 2240
Delta R.T. 0.01 min
Lab File: VW016587.D
Acq: 18 Sep 2020 16:08

Tgt Ion:180 Resp: 10997
Ion Ratio Lower Upper
180 100
182 94.6 75.5 113.3
145 31.9 24.3 36.5

