

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100720\
 Data File : VU040551.D
 Acq On : 07 Oct 2020 18:09
 Operator : SY/MD
 Sample : L4485-17
 Misc : 5.0µ/5.0mL/100µL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-03

Quant Time: Oct 08 01:21:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 08 01:13:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	275190	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	272363	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	129327	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	108169	45.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.54%
7) Chloroethane-d5	1.92	69	86782	48.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.40%
11) 1,1-Dichloroethene-d2	2.58	63	162945	36.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.26%
21) 2-Butanone-d5	4.64	46	216753	115.57	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	115.57%
24) Chloroform-d	5.08	84	196203	48.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.26%
26) 1,2-Dichloroethane-d4	5.72	65	135664	47.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.58%
32) Benzene-d6	5.75	84	374369	48.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.58%
36) 1,2-Dichloropropane-d6	6.70	67	125453	48.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.58%
41) Toluene-d8	7.91	98	330034	46.97	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.94%
43) trans-1,3-Dichloropropene-	8.19	79	60918	46.84	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.68%
47) 2-Hexanone-d5	8.64	63	134484	111.04	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	111.04%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	181283	48.31	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.62%
66) 1,2-Dichlorobenzene-d4	12.19	152	131038	49.79	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.58%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	7076	2.670 ug/L	100
3) Chloromethane	1.53	50	6973	2.504 ug/L	100
5) Vinyl chloride	1.61	62	7485	2.715 ug/L #	72
6) Bromomethane	1.86	94	3597	2.486 ug/L	99
8) Chloroethane	1.94	64	4575	2.750 ug/L	96
9) Trichlorofluoromethane	2.15	101	9620	2.720 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	6713	3.184 ug/L	88
12) 1,1-Dichloroethene	2.59	96	6155	3.158 ug/L #	1
13) Acetone	2.64	43	10980	6.096 ug/L	97
14) Carbon disulfide	2.81	76	18949	2.832 ug/L	98
15) Methyl Acetate	2.96	43	8661	2.948 ug/L	99
16) Methylene chloride	3.06	84	6829	2.954 ug/L	87
17) trans-1,2-Dichloroethene	3.37	96	5470	2.635 ug/L	96
18) Methyl tert-butyl Ether	3.38	73	15263	2.338 ug/L	99
19) 1,1-Dichloroethane	3.89	63	10378	2.507 ug/L	98
20) cis-1,2-Dichloroethene	4.69	96	6004	2.684 ug/L	95
22) 2-Butanone	4.72	43	13536	5.891 ug/L	77

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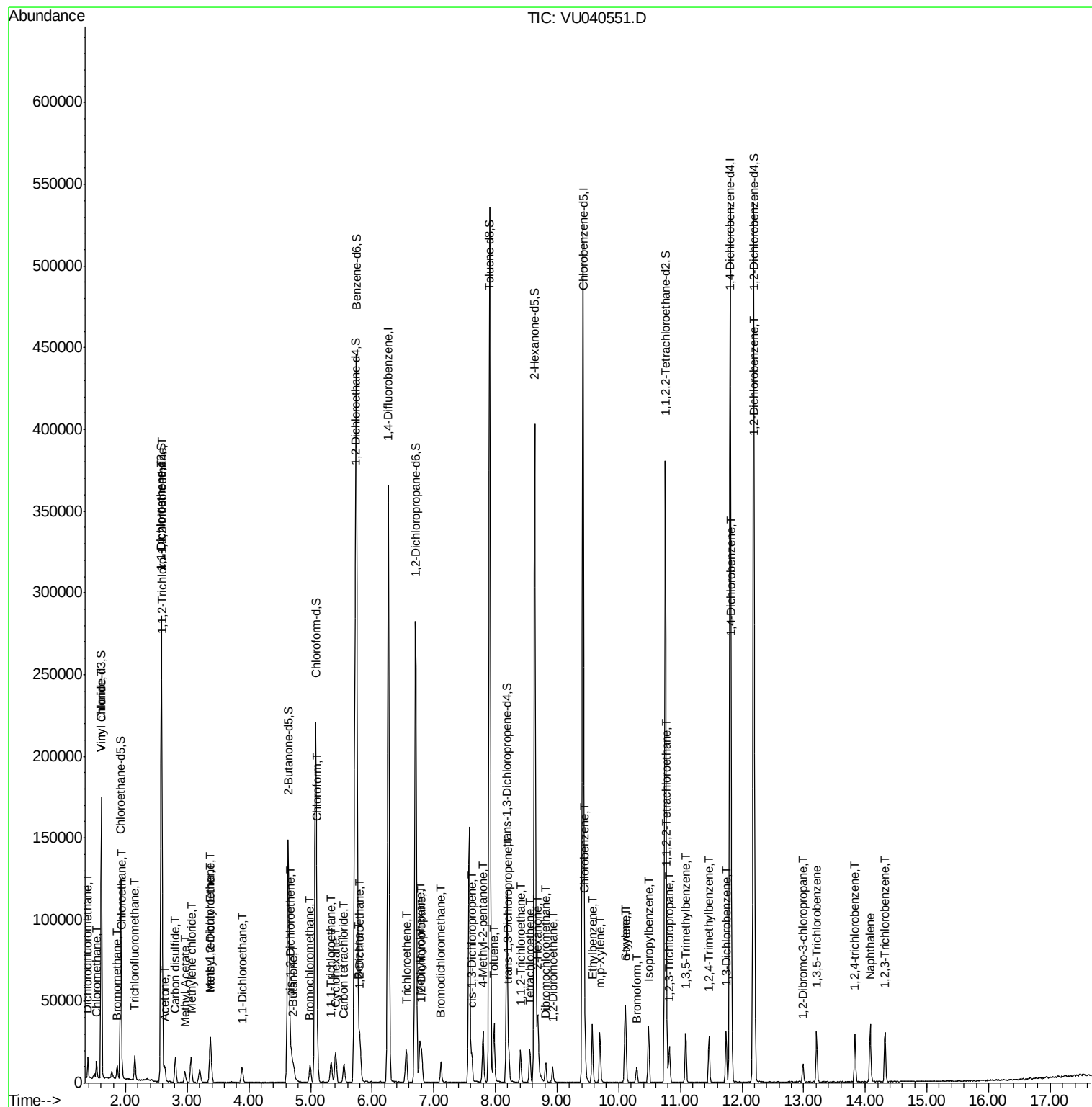
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	3108	2.666	ug/L	93
25) Chloroform	5.11	83	12241	2.899	ug/L	85
27) 1,2-Dichloroethane	5.81	62	9867	2.832	ug/L	98
29) Cyclohexane	5.40	56	8867	2.431	ug/L	100
30) 1,1,1-Trichloroethane	5.34	97	8899	2.544	ug/L	98
31) Carbon tetrachloride	5.55	117	7502	2.480	ug/L	100
33) Benzene	5.79	78	22482	2.554	ug/L	100
34) Trichloroethene	6.56	95	5949	2.623	ug/L	96
35) Methylcyclohexane	6.77	83	8402	2.437	ug/L	95
37) 1,2-Dichloropropane	6.80	63	6338	2.622	ug/L #	95
38) Bromodichloromethane	7.11	83	7972	2.539	ug/L	95
39) cis-1,3-Dichloropropene	7.62	75	8695	2.454	ug/L	94
40) 4-Methyl-2-pentanone	7.80	43	21091	5.529	ug/L	96
42) Toluene	7.98	91	23113	2.572	ug/L	97
44) trans-1,3-Dichloropropene	8.21	75	8410	2.358	ug/L	96
45) 1,1,2-Trichloroethane	8.40	97	5554	2.565	ug/L	94
46) Tetrachloroethene	8.56	164	4230	2.581	ug/L	96
48) 2-Hexanone	8.69	43	21451	6.919	ug/L	98
49) Dibromochloromethane	8.82	129	6246	2.641	ug/L	95
50) 1,2-Dibromoethane	8.93	107	5961	2.597	ug/L #	90
51) Chlorobenzene	9.45	112	15402	2.613	ug/L	99
52) Ethylbenzene	9.57	91	23387	2.344	ug/L	97
53) m,p-Xylene	9.69	106	8273	2.252	ug/L	95
54) o-xylene	10.10	106	7860	2.249	ug/L	98
55) Styrene	10.11	104	13169	2.139	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.78	83	11174	2.918	ug/L #	96
59) Bromoform	10.29	173	4440	2.801	ug/L #	94
60) 1,2,3-Trichloropropane	10.82	75	9053	3.082	ug/L	96
61) Isopropylbenzene	10.48	105	19961	2.298	ug/L	98
62) 1,3,5-Trimethylbenzene	11.09	105	15992	2.241	ug/L	97
63) 1,2,4-Trimethylbenzene	11.47	105	14750	2.038	ug/L	97
64) 1,3-Dichlorobenzene	11.74	146	12104	2.858	ug/L	98
65) 1,4-Dichlorobenzene	11.83	146	13411	3.015	ug/L	95
67) 1,2-Dichlorobenzene	12.21	146	13517	3.186	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.99	75	2964	3.591	ug/L	94
69) 1,3,5-Trichlorobenzene	13.21	180	9045	3.260	ug/L	98
70) 1,2,4-trichlorobenzene	13.83	180	8302	3.452	ug/L	99
71) Naphthalene	14.08	128	27562	3.708	ug/L	99
72) 1,2,3-Trichlorobenzene	14.32	180	8899	3.728	ug/L	99

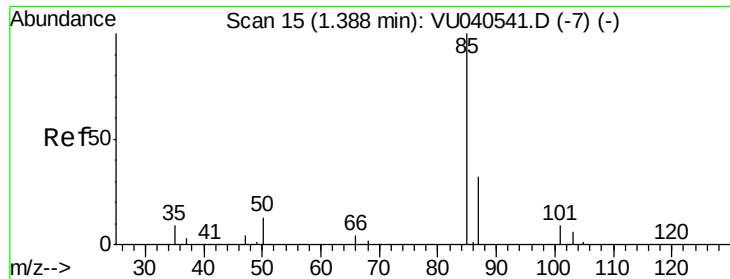
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.670 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

MSVOA_U

ClientSampleId :

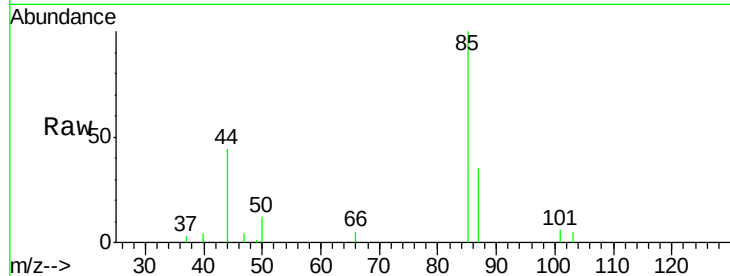
MDL-ME-SOIL-03

Tot Ion: 85 Resp: 7076

Ion Ratio Lower Upper

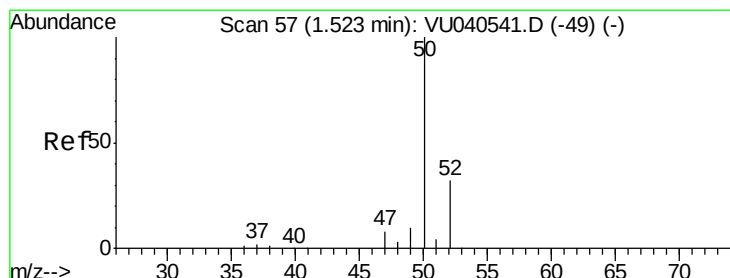
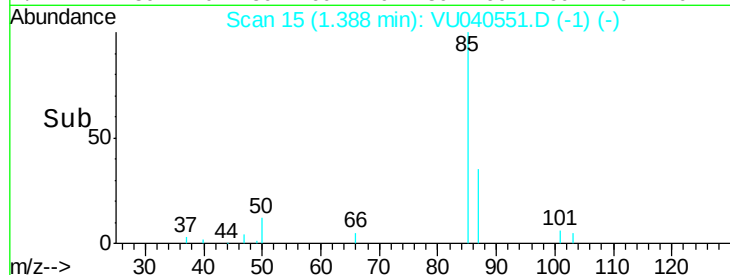
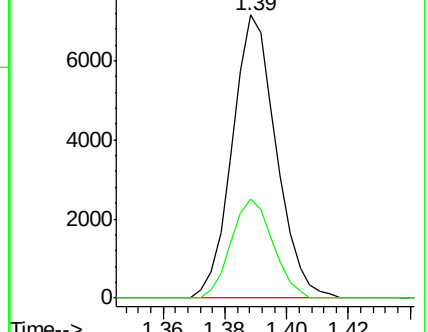
85 100

87 33.2 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU040541.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU040541.D (-7) (-)



#3

Chloromethane

Concen: 2.504 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040551.D

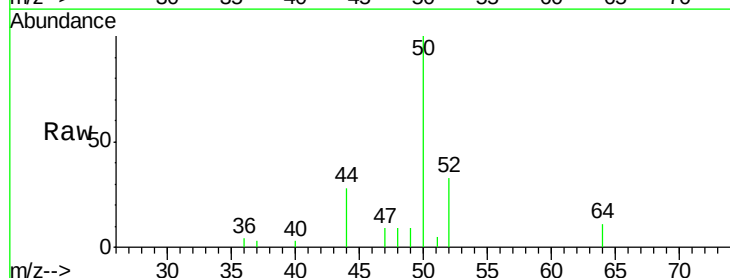
Acq: 07 Oct 2020 18:09

Tgt Ion: 50 Resp: 6973

Ion Ratio Lower Upper

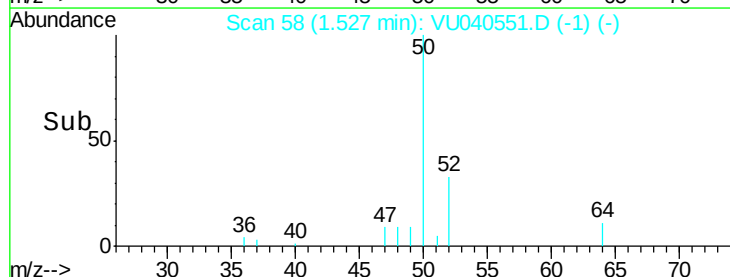
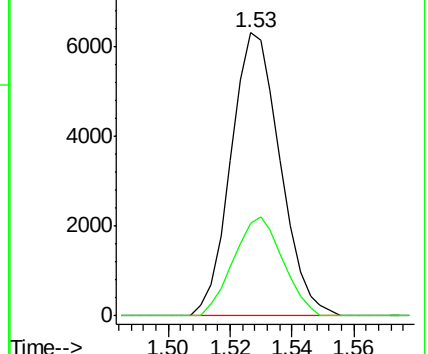
50 100

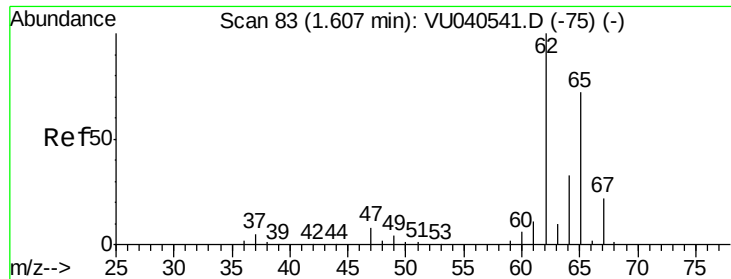
52 32.7 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU040541.D (-49) (-)

Ion 52.00 (51.70 to 52.70): VU040541.D (-49) (-)





#5

Vinyl chloride

Concen: 2.715 ug/L

RT: 1.61 min Scan# 85

Delta R.T. 0.01 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

MSVOA_U

ClientSampleId :

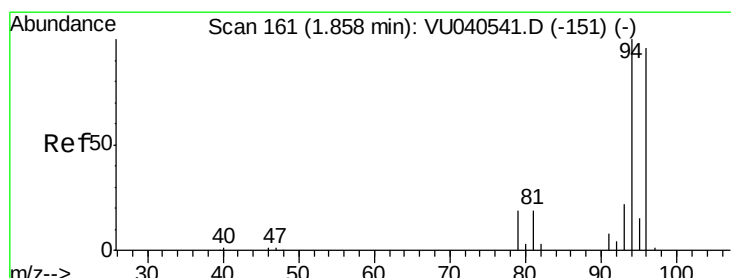
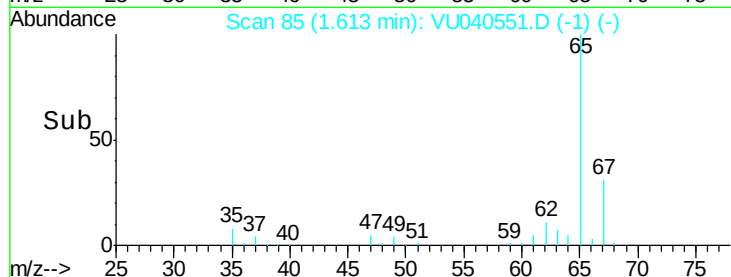
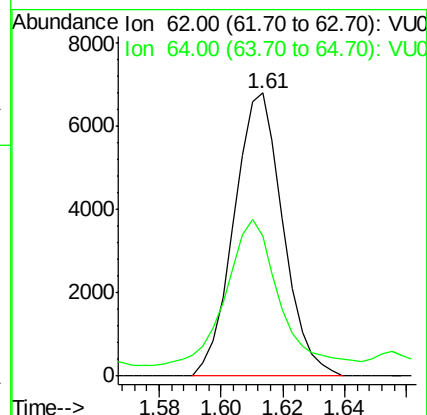
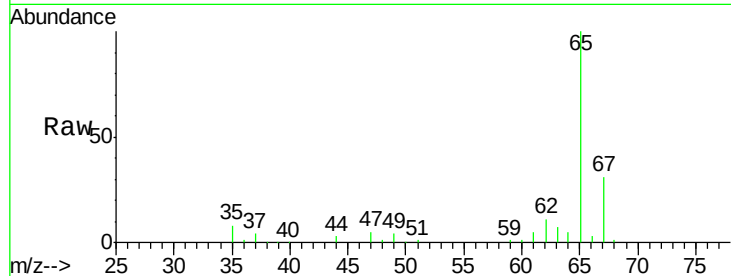
MDL-ME-SOIL-03

Tot Ion: 62 Resp: 7485

Ion Ratio Lower Upper

62 100

64 49.5 23.4 43.6#



#6

Bromomethane

Concen: 2.486 ug/L

RT: 1.86 min Scan# 163

Delta R.T. 0.01 min

Lab File: VU040551.D

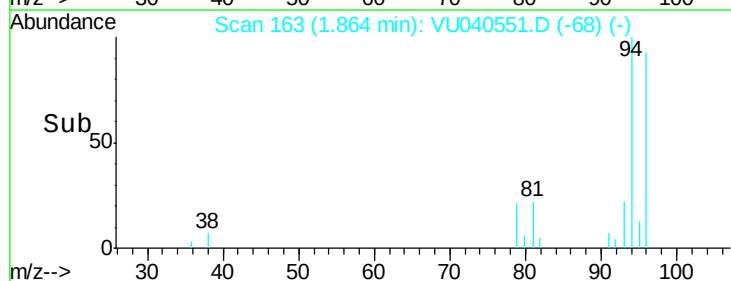
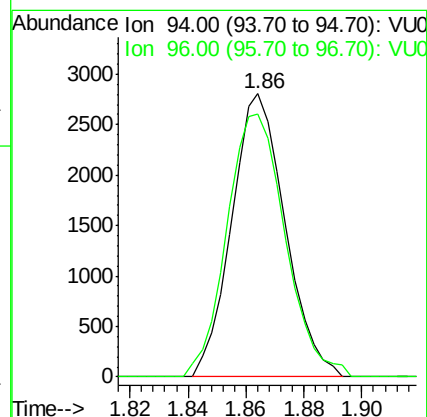
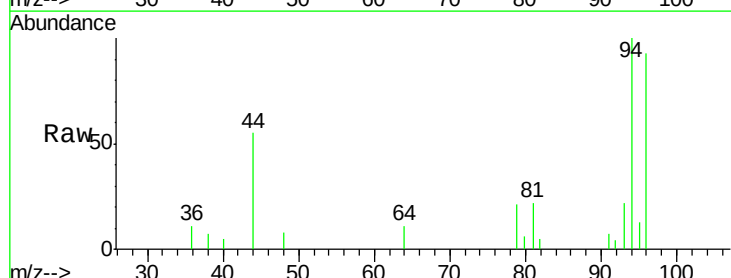
Acq: 07 Oct 2020 18:09

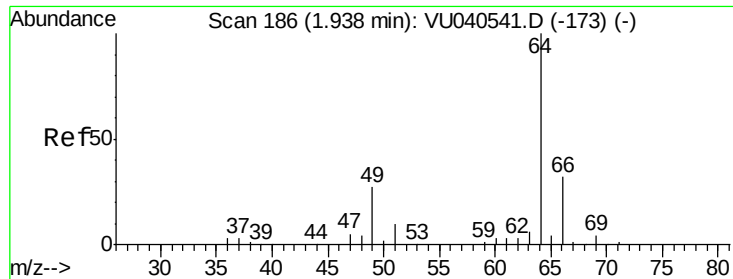
Tgt Ion: 94 Resp: 3597

Ion Ratio Lower Upper

94 100

96 92.7 64.4 119.6





#8

Chloroethane

Concen: 2.750 ug/L

RT: 1.94 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

MSVOA_U

ClientSampleId :

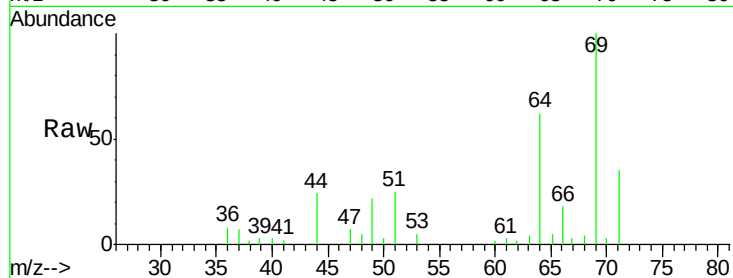
MDL-ME-SOIL-03

Tot Ion: 64 Resp: 4575

Ion Ratio Lower Upper

64 100

66 29.7 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0

1.94

3000

2000

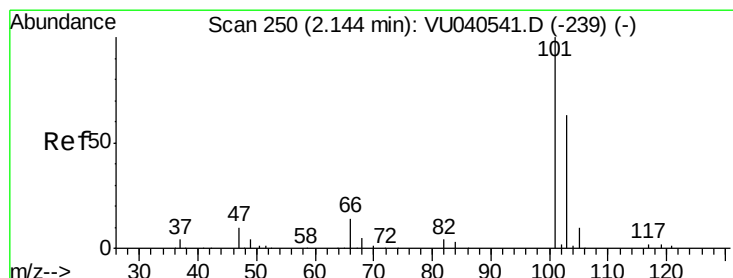
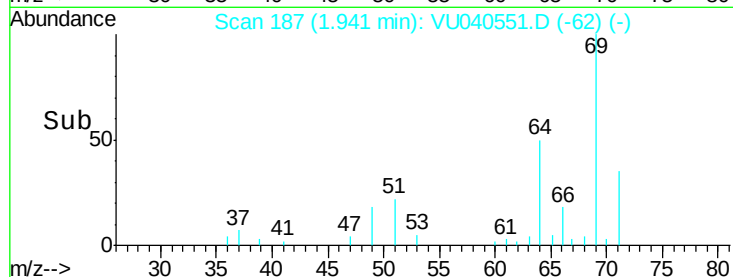
1000

0

Time-->

1.90

1.95



#9

Trichlorofluoromethane

Concen: 2.720 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.01 min

Lab File: VU040551.D

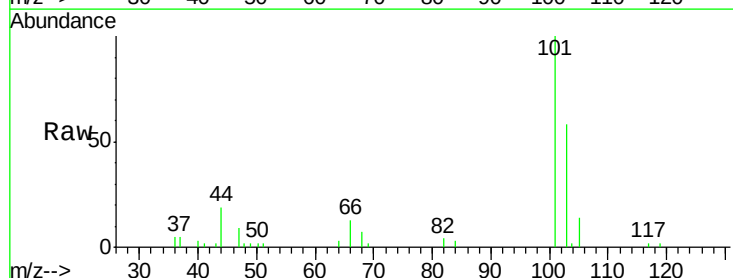
Acq: 07 Oct 2020 18:09

Tgt Ion: 101 Resp: 9620

Ion Ratio Lower Upper

101 100

103 61.0 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

2.15

6000

4000

2000

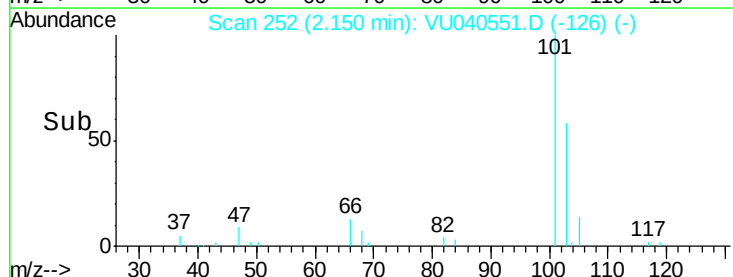
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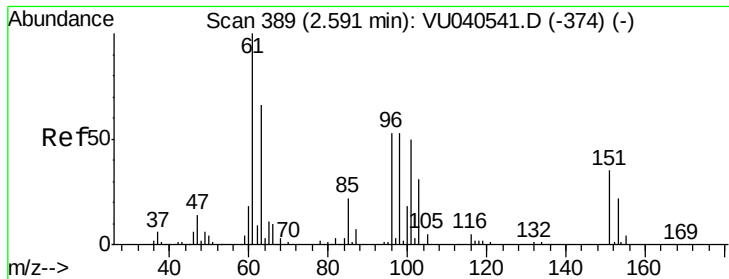
Time-->

2.10

2.15

2.20





#10

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

Concen: 3.184 ug/L

RT: 2.60 min Scan# 391

Delta R.T. 0.01 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

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ClientSampleId :

MDL-ME-SOIL-03

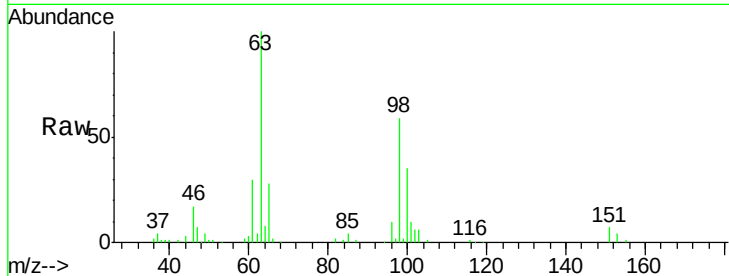
Tot Ion:101 Resp: 6713

Ion Ratio Lower Upper

101 100

85 35.8 35.4 53.2

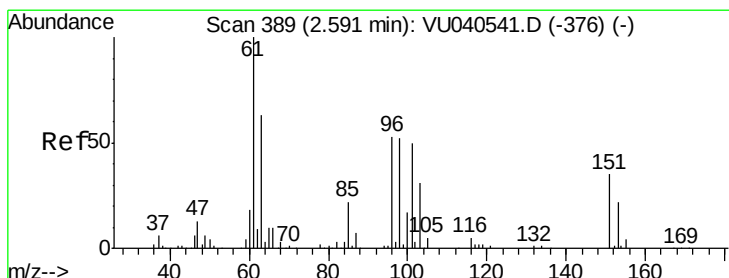
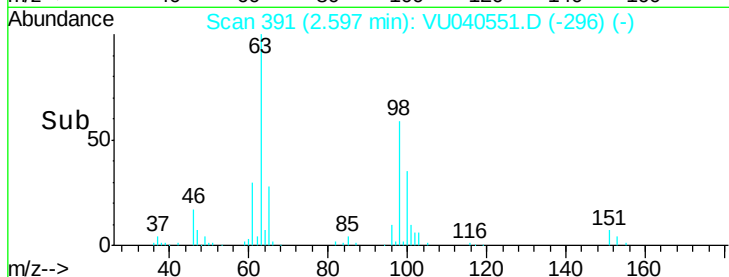
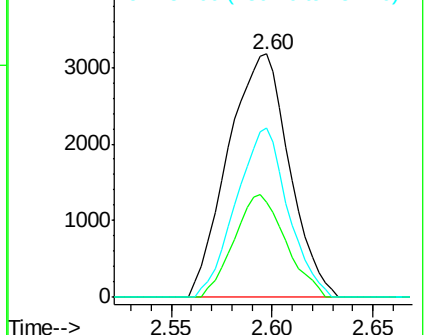
151 59.1 54.8 82.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 3.158 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

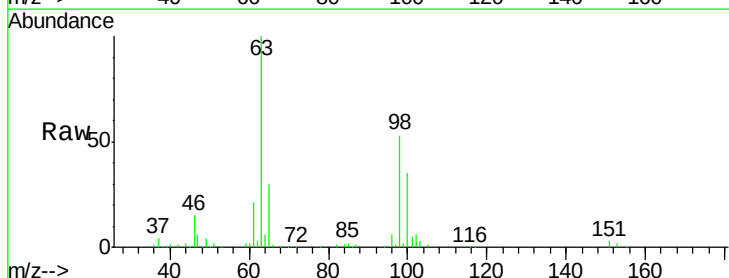
Tgt Ion: 96 Resp: 6155

Ion Ratio Lower Upper

96 100

61 388.0 135.0 250.8#

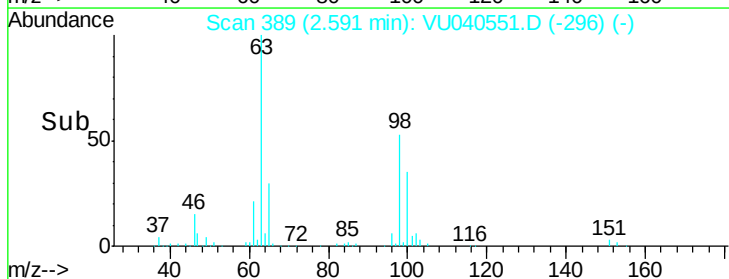
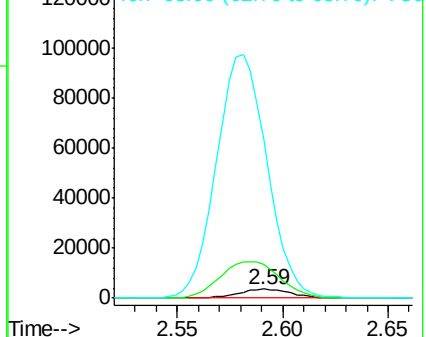
63 1805.0 101.4 188.2#

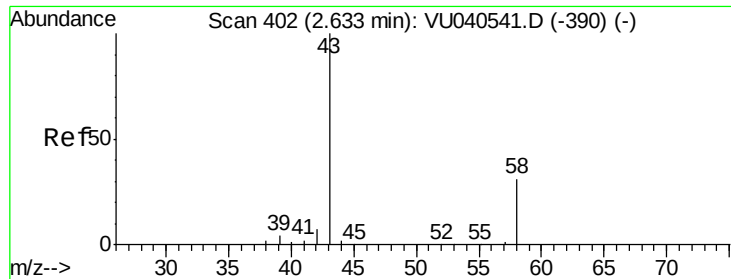


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.096 ug/L

RT: 2.64 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU040551.D

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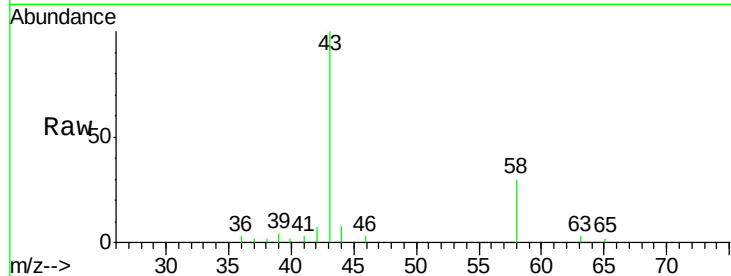
MDL-ME-SOIL-03

Tot Ion: 43 Resp: 10980

Ion Ratio Lower Upper

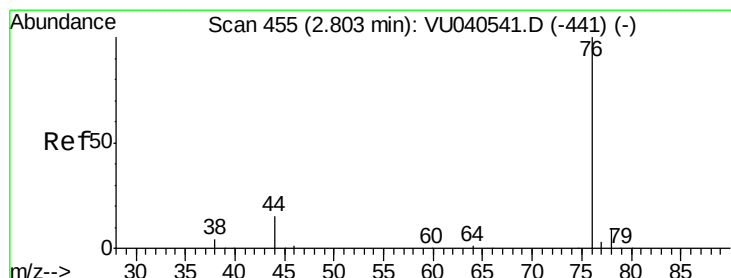
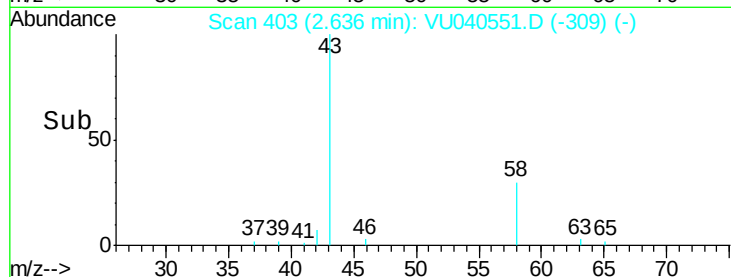
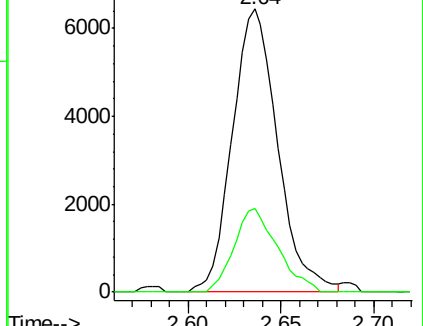
43 100

58 28.2 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VU040551.D (-390) (-)

Ion 58.00 (57.70 to 58.70): VU040551.D (-390) (-)



#14

Carbon disulfide

Concen: 2.832 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.01 min

Lab File: VU040551.D

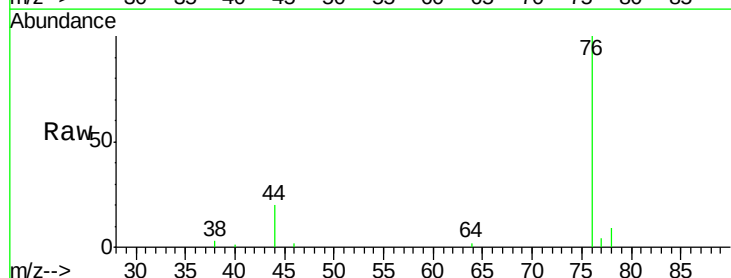
Acq: 07 Oct 2020 18:09

Tgt Ion: 76 Resp: 18949

Ion Ratio Lower Upper

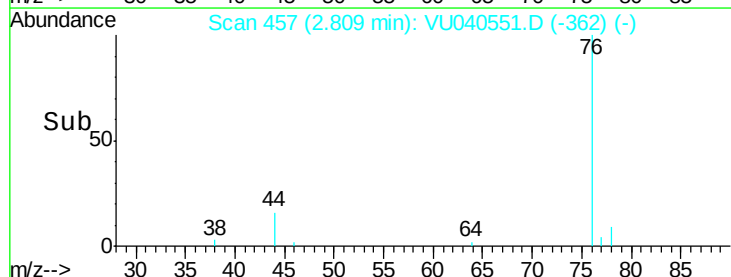
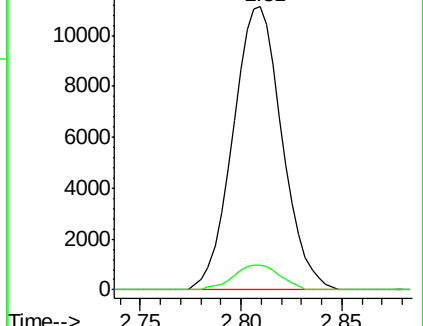
76 100

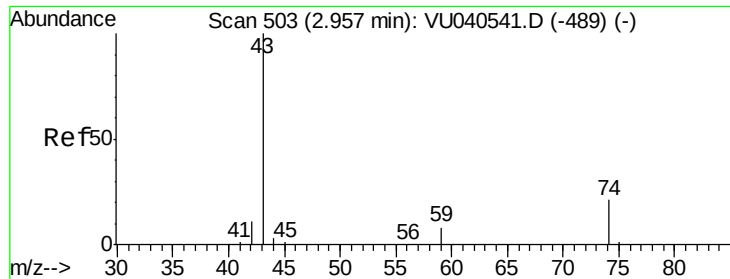
78 8.6 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU040551.D (-362) (-)

Ion 78.00 (77.70 to 78.70): VU040551.D (-362) (-)

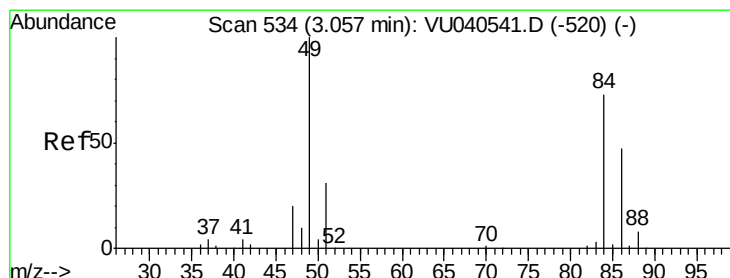
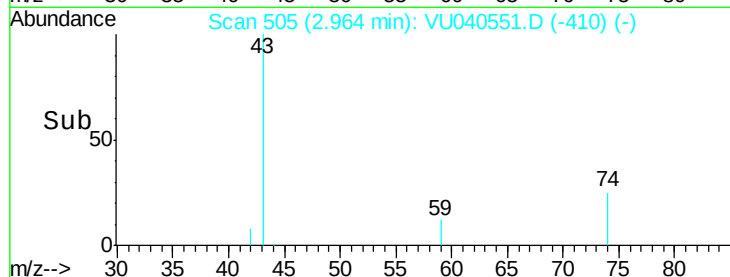
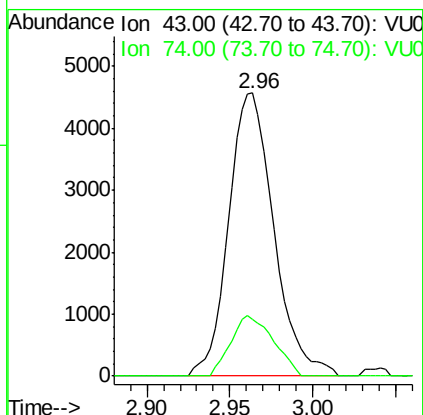
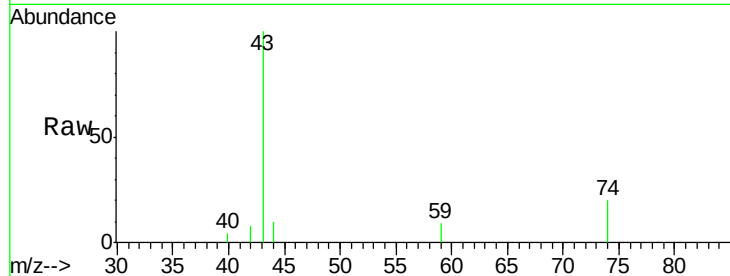




#15
Methvl Acetate
Concen: 2.948 ug/L
RT: 2.96 min Scan# 505
Delta R.T. 0.01 min
Lab File: VU040551.D
Acq: 07 Oct 2020 18:09

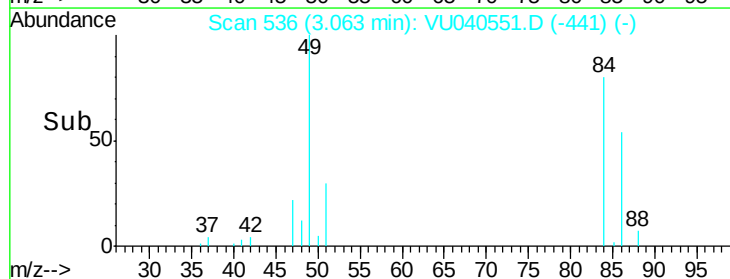
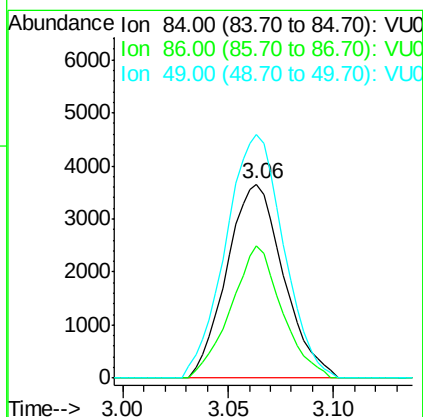
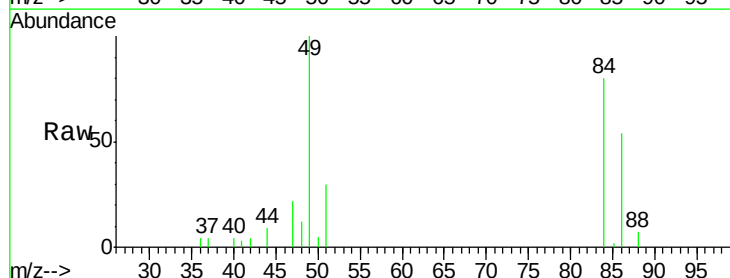
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-03

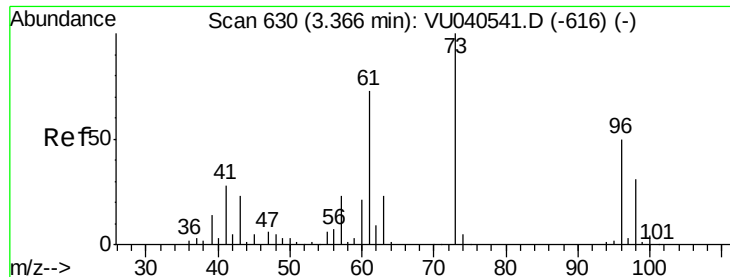
Tot Ion: 43 Resp: 8661
Ion Ratio Lower Upper
43 100
74 20.1 16.4 24.6



#16
Methylene chloride
Concen: 2.954 ug/L
RT: 3.06 min Scan# 536
Delta R.T. 0.01 min
Lab File: VU040551.D
Acq: 07 Oct 2020 18:09

Tgt Ion: 84 Resp: 6829
Ion Ratio Lower Upper
84 100
86 68.3 45.4 84.4
49 125.3 102.9 191.1





#17

trans-1,2-Dichloroethene

Concen: 2.635 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-03

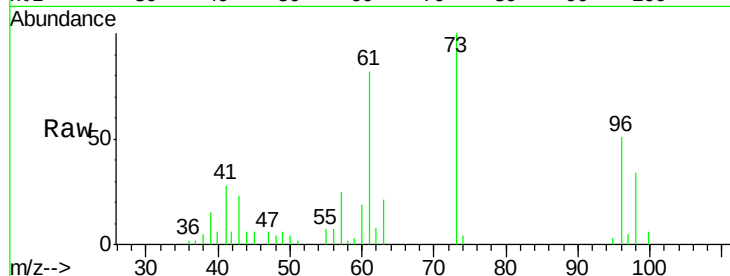
Tot Ion: 96 Resp: 5470

Ion Ratio Lower Upper

96 100

61 159.9 109.6 203.6

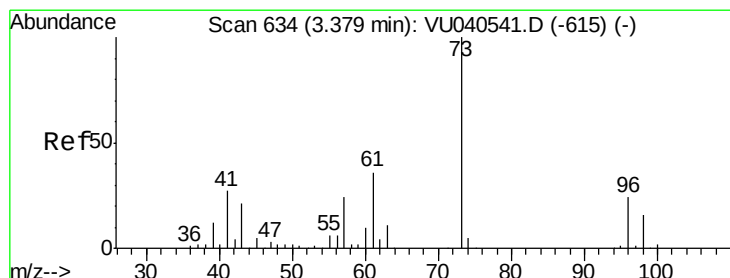
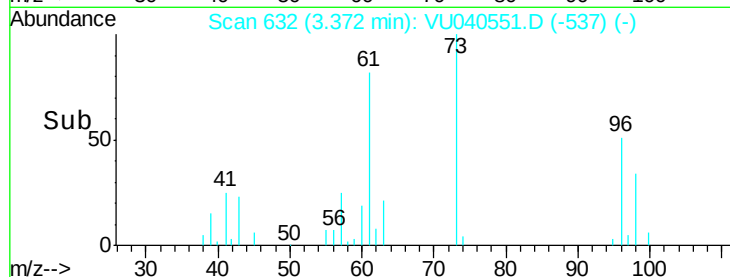
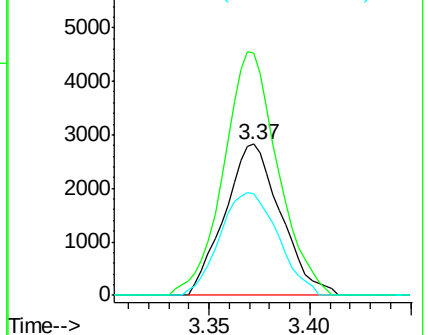
98 67.2 43.3 80.3



Abundance Ion 96.00 (95.70 to 96.70): VU040541.D (-616) (-)

Ion 61.00 (60.70 to 61.70): VU040541.D (-616) (-)

Ion 98.00 (97.70 to 98.70): VU040541.D (-616) (-)



#18

Methyl tert-butyl Ether

Concen: 2.338 ug/L

RT: 3.38 min Scan# 635

Delta R.T. 0.00 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

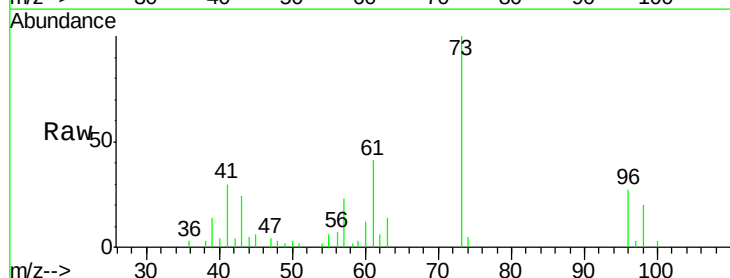
Tgt Ion: 73 Resp: 15263

Ion Ratio Lower Upper

73 100

43 22.5 18.2 27.2

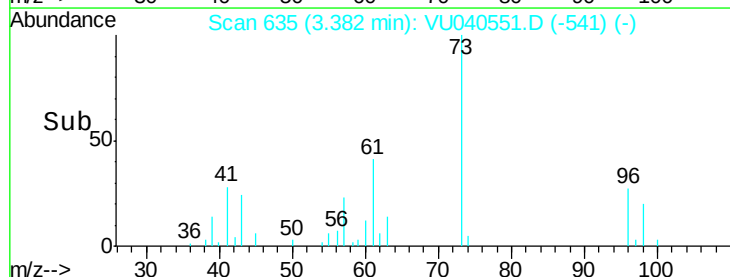
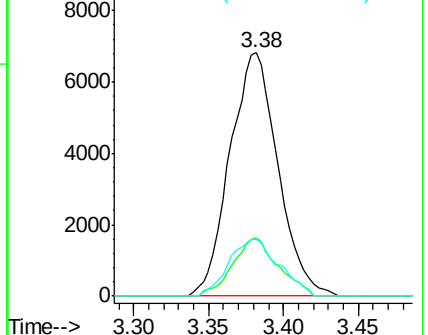
57 24.2 18.5 27.7

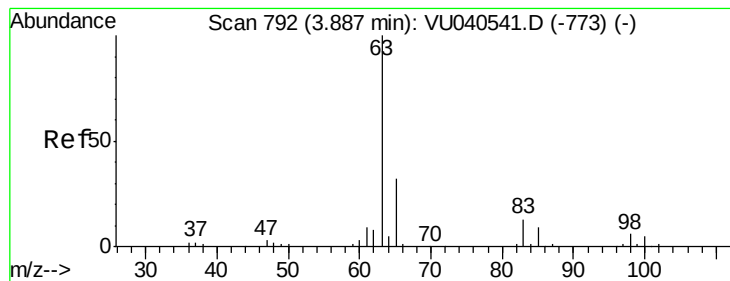


Abundance Ion 73.00 (72.70 to 73.70): VU040541.D (-615) (-)

Ion 43.00 (42.70 to 43.70): VU040541.D (-615) (-)

Ion 57.00 (56.70 to 57.70): VU040541.D (-615) (-)





#19

1,1-Dichloroethane

Concen: 2.507 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.01 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-03

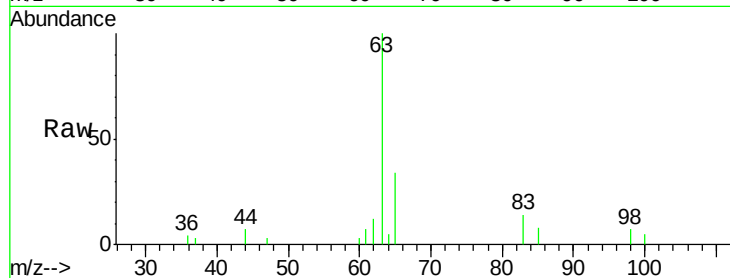
Tot Ion: 63 Resp: 10378

Ion Ratio Lower Upper

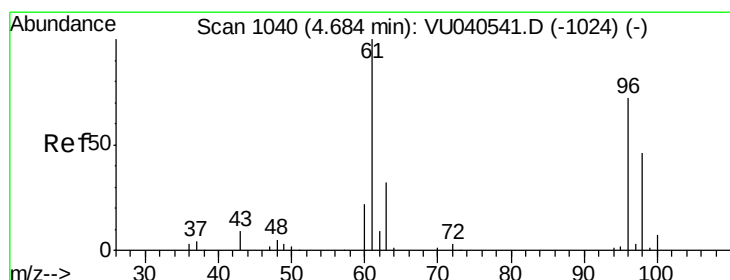
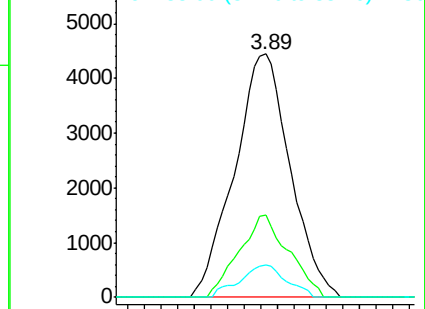
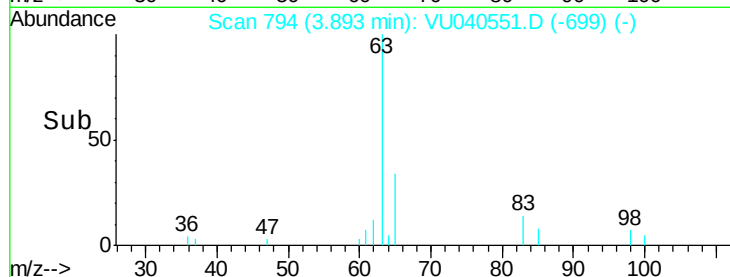
63 100

65 33.8 22.6 42.0

83 13.6 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU040551.D (-699) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.684 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

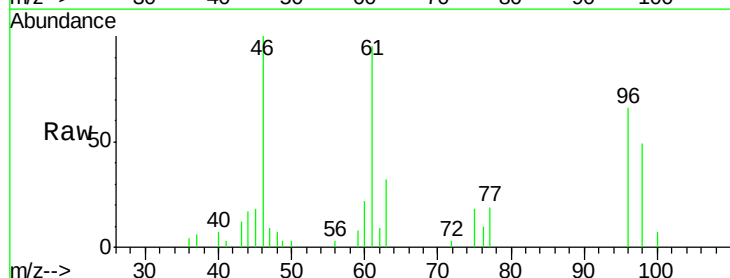
Tgt Ion: 96 Resp: 6004

Ion Ratio Lower Upper

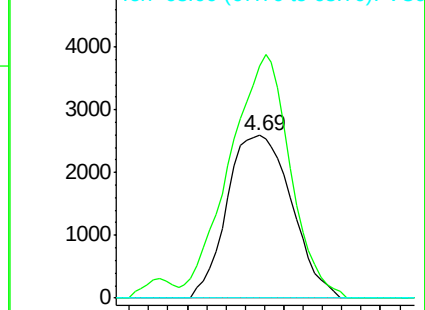
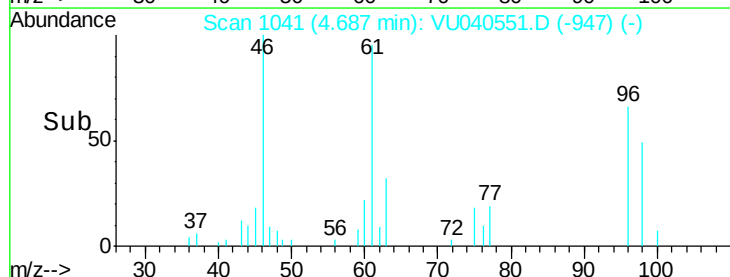
96 100

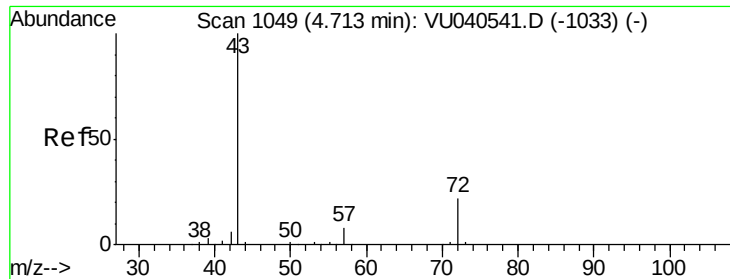
61 142.7 95.7 177.7

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040551.D (-947) (-)





#22

2-Butanone

Concen: 5.891 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

MSVOA_U

ClientSampleId :

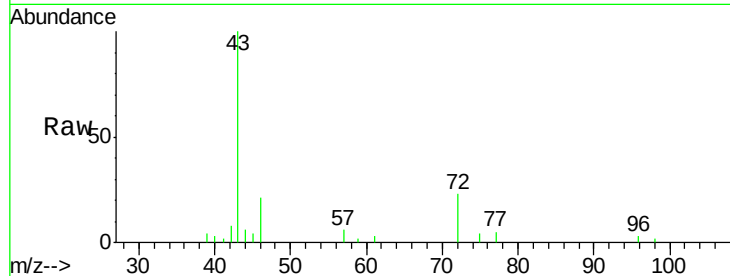
MDL-ME-SOIL-03

Tot Ion: 43 Resp: 13536

Ion Ratio Lower Upper

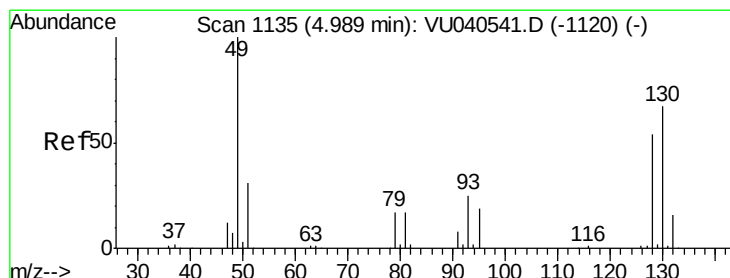
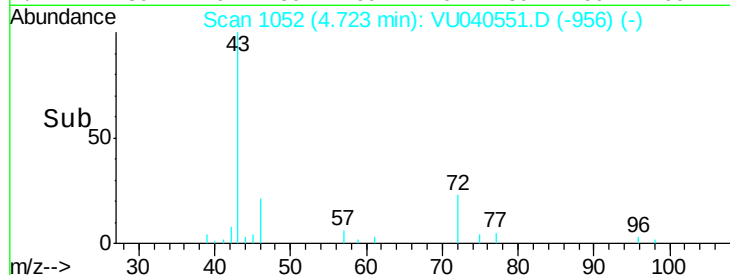
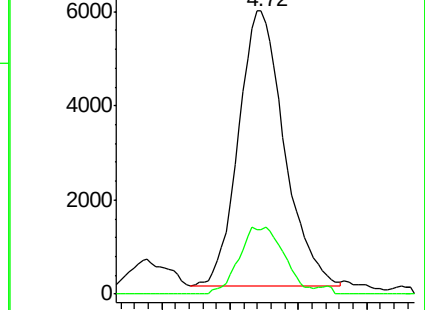
43 100

72 12.5 11.9 35.9



Abundance Ion 43.00 (42.70 to 43.70): VU040551.D (-1052) (-)

Ion 72.00 (71.70 to 72.70): VU040551.D (-1052) (-)



#23

Bromochloromethane

Concen: 2.666 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Tgt Ion:128 Resp: 3108

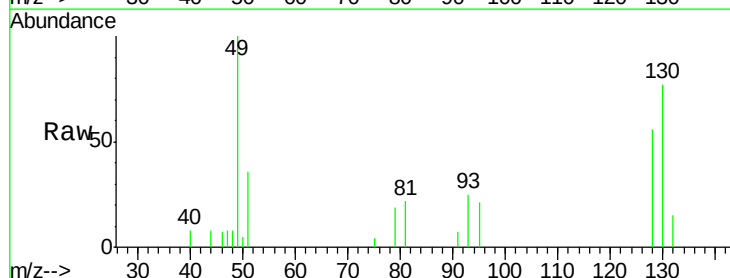
Ion Ratio Lower Upper

128 100

49 177.4 133.1 247.3

130 136.6 90.5 168.1

51 63.5 48.4 72.6

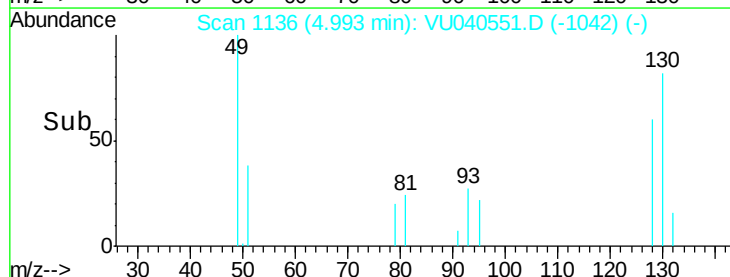
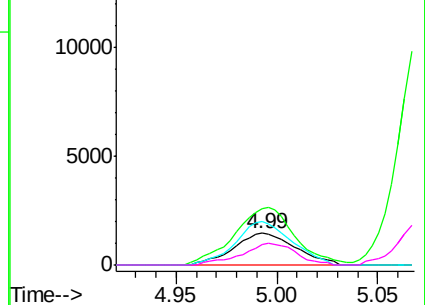


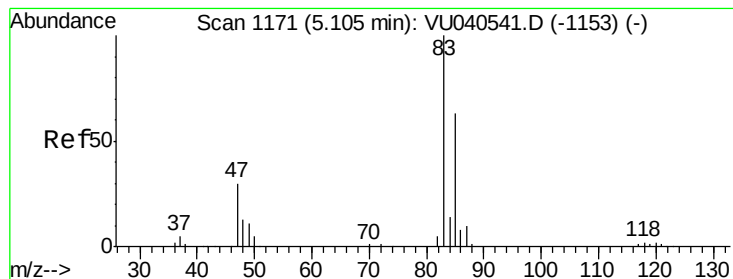
Abundance Ion 128.00 (127.70 to 128.70): VU040551.D (-1136) (-)

Ion 49.00 (48.70 to 49.70): VU040551.D (-1136) (-)

Ion 130.00 (129.70 to 130.70): VU040551.D (-1136) (-)

Ion 51.00 (50.70 to 51.70): VU040551.D (-1136) (-)





#25

Chloroform

Concen: 2.899 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

MSVOA_U

ClientSampleId :

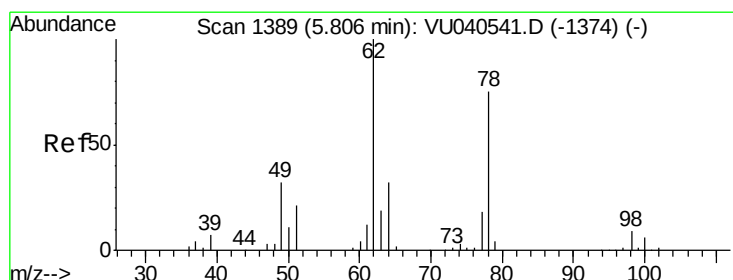
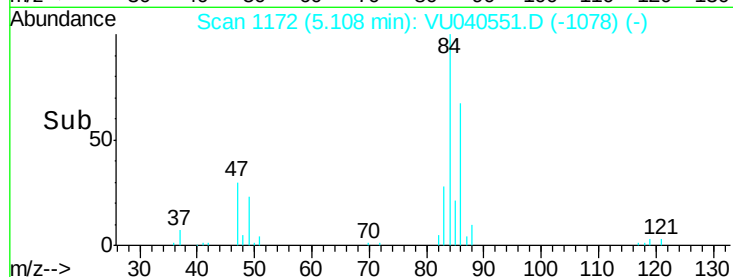
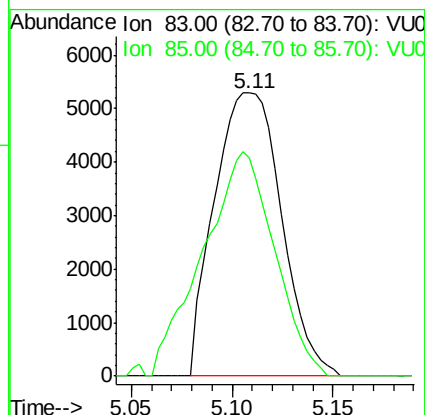
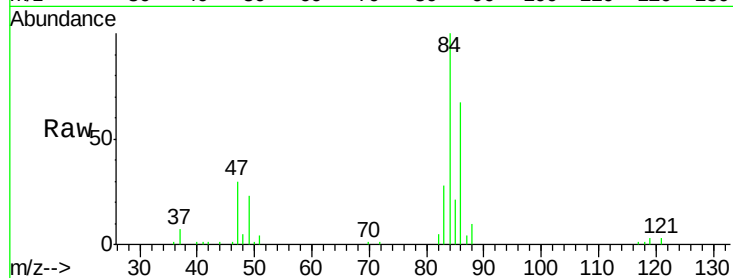
MDL-ME-SOIL-03

Tot Ion: 83 Resp: 12241

Ion Ratio Lower Upper

83 100

85 77.1 45.6 84.8



#27

1,2-Dichloroethane

Concen: 2.832 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU040551.D

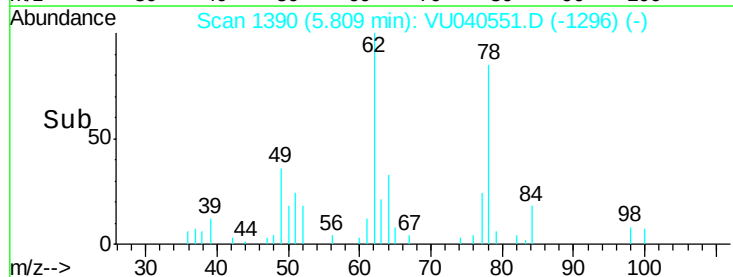
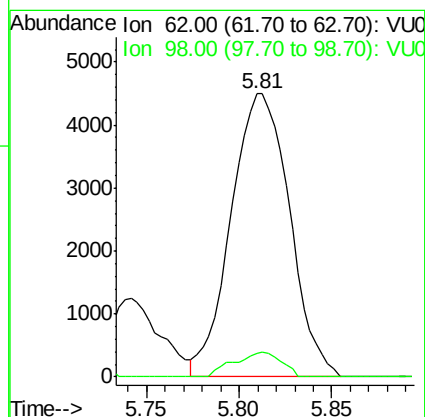
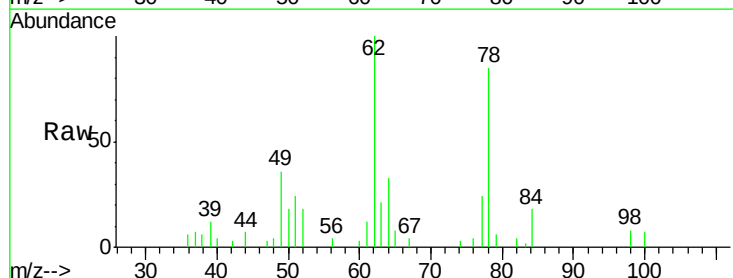
Acq: 07 Oct 2020 18:09

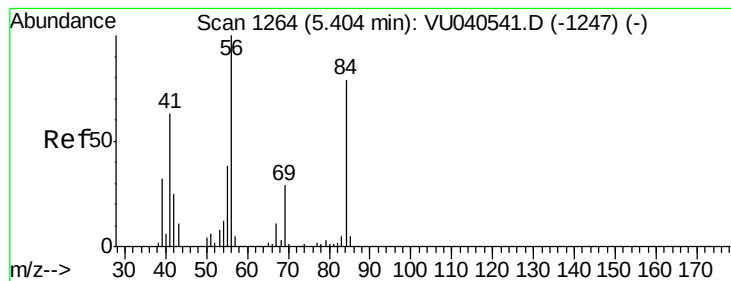
Tgt Ion: 62 Resp: 9867

Ion Ratio Lower Upper

62 100

98 8.3 7.1 10.7





#29

Cyclohexane

Concen: 2.431 ug/L

RT: 5.40 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-03

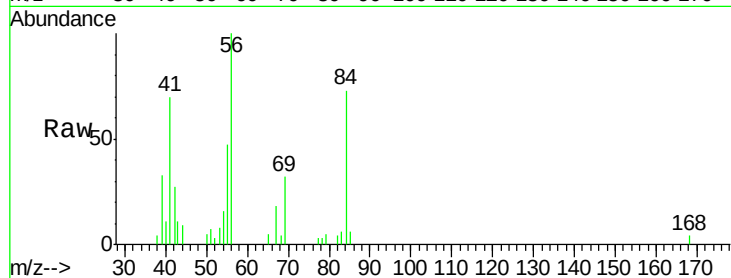
Tot Ion: 56 Resp: 8867

Ion Ratio Lower Upper

56 100

69 28.3 22.6 34.0

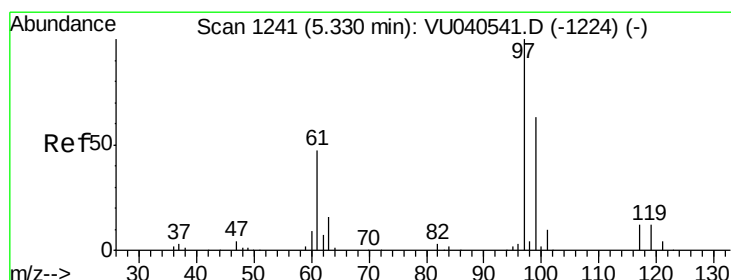
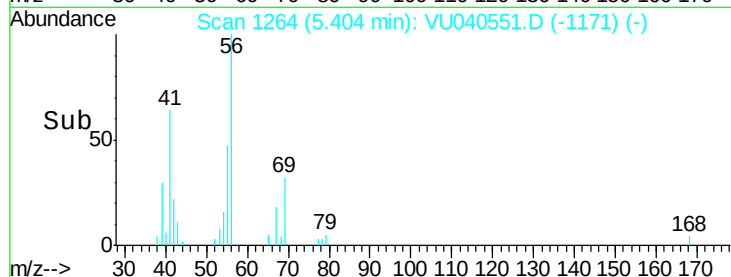
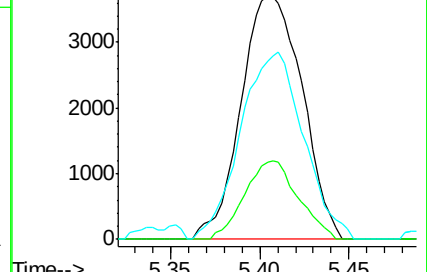
84 79.0 63.1 94.7



Abundance Ion 56.00 (55.70 to 56.70): VU040551.D (-1171) (-)

Ion 69.00 (68.70 to 69.70): VU040551.D (-1171) (-)

Ion 84.00 (83.70 to 84.70): VU040551.D (-1171) (-)



#30

1,1,1-Trichloroethane

Concen: 2.544 ug/L

RT: 5.34 min Scan# 1243

Delta R.T. 0.01 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

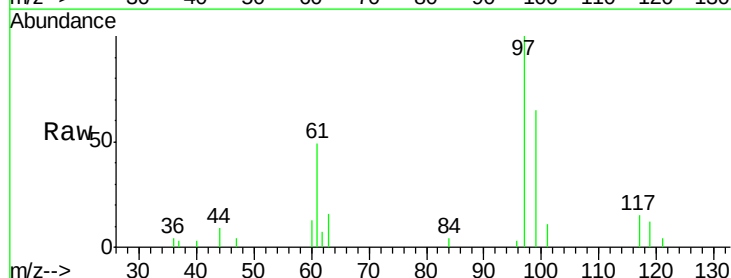
Tgt Ion: 97 Resp: 8899

Ion Ratio Lower Upper

97 100

99 61.4 51.0 76.6

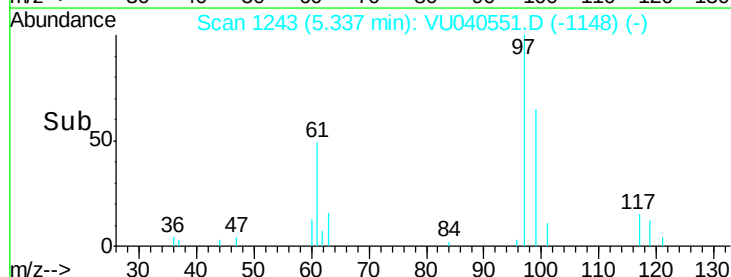
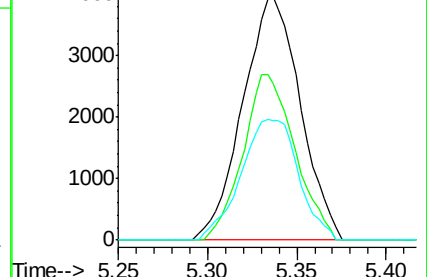
61 49.6 39.4 59.2

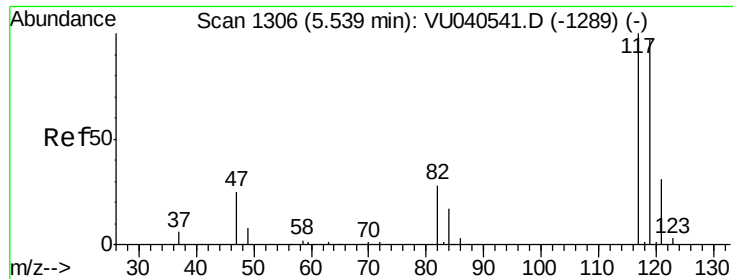


Abundance Ion 97.00 (96.70 to 97.70): VU040551.D (-1148) (-)

Ion 99.00 (98.70 to 99.70): VU040551.D (-1148) (-)

Ion 61.05 (60.75 to 61.75): VU040551.D (-1148) (-)





#31

Carbon tetrachloride

Concen: 2.480 ug/L

RT: 5.55 min Scan# 1308

Delta R.T. 0.01 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

MSVOA_U

ClientSampleId :

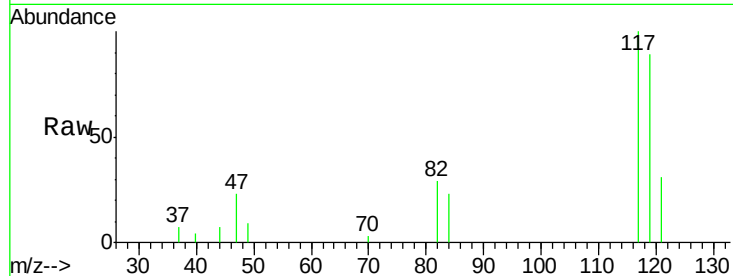
MDL-ME-SOIL-03

Tot Ion:117 Resp: 7502

Ion Ratio Lower Upper

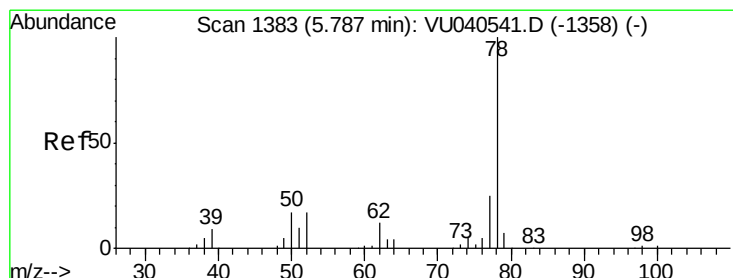
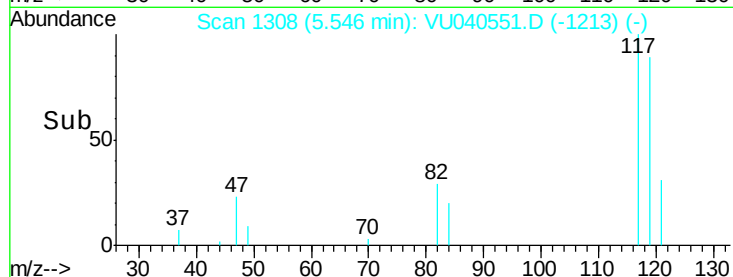
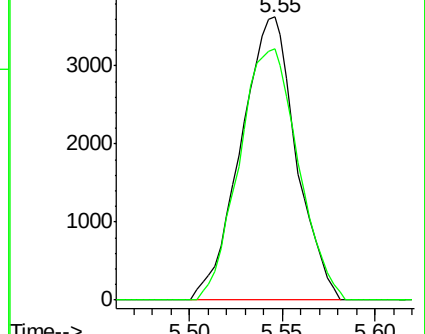
117 100

119 94.9 75.8 113.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.554 ug/L

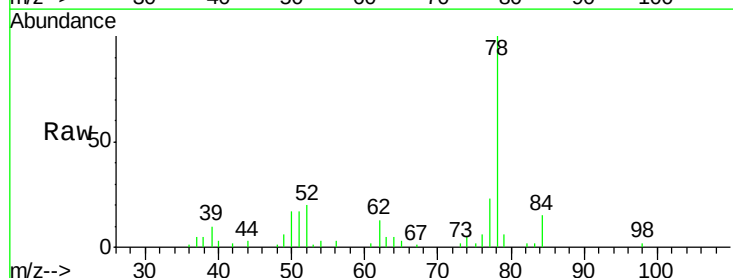
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU040551.D

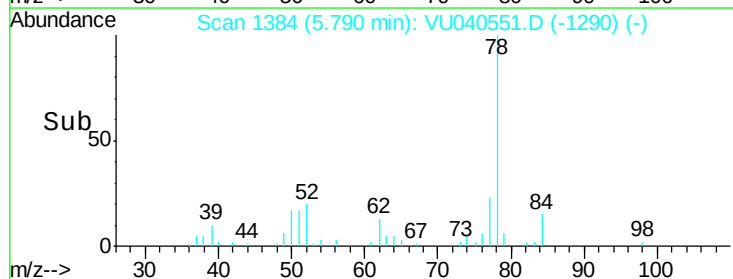
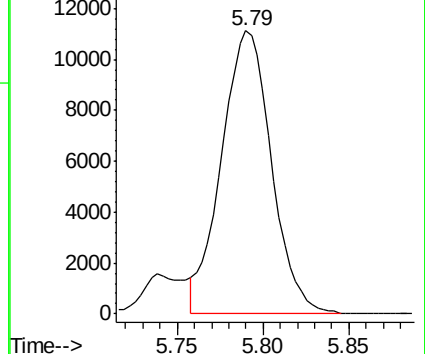
Acq: 07 Oct 2020 18:09

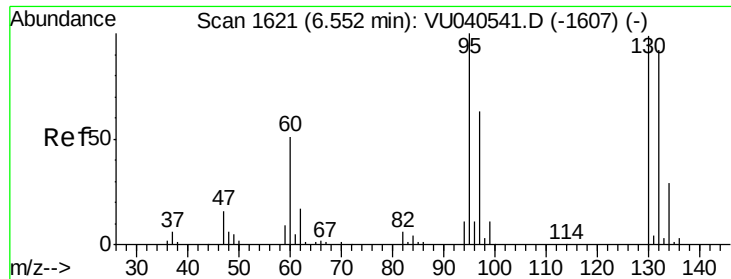
Tgt Ion: 78 Resp: 22482



Abundance Ion 78.00 (77.70 to 78.70): VU0

Time-->

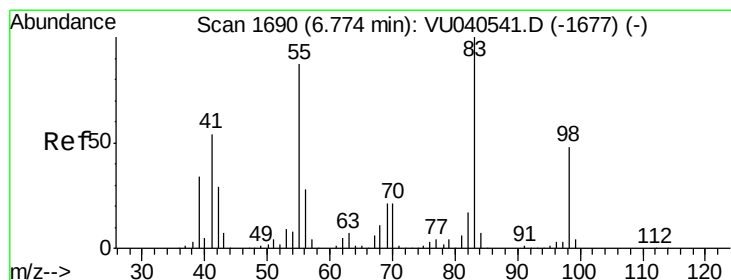
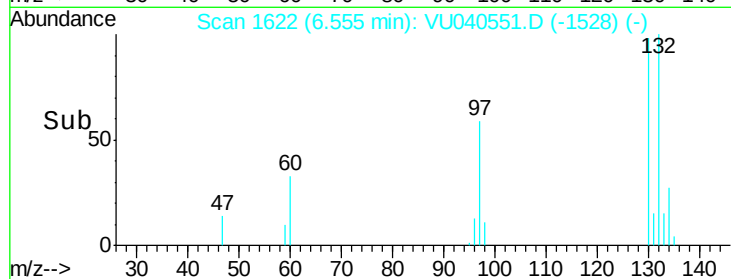
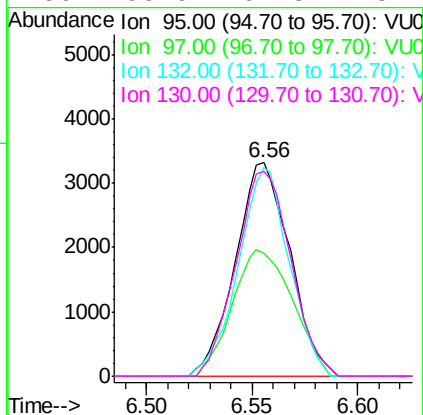
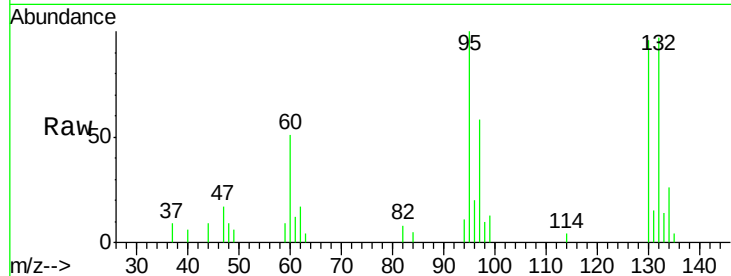




#34
 Trichloroethene
 Concen: 2.623 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040551.D
 Acq: 07 Oct 2020 18:09

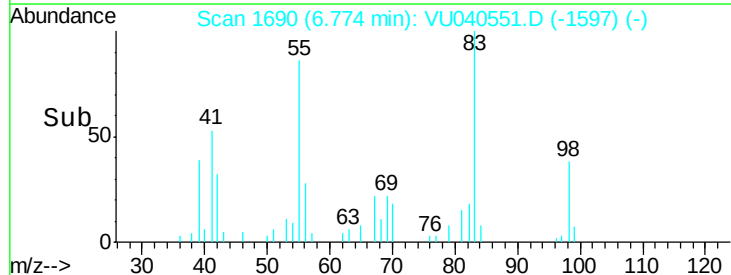
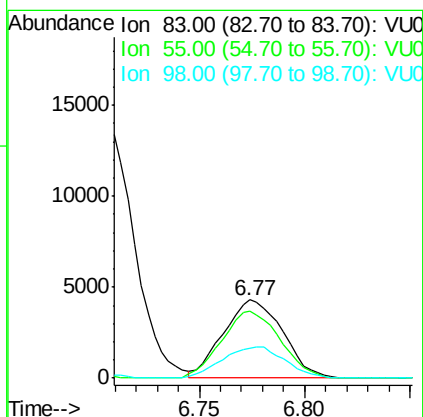
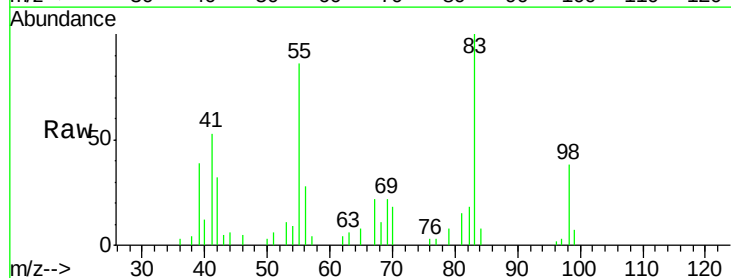
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-03

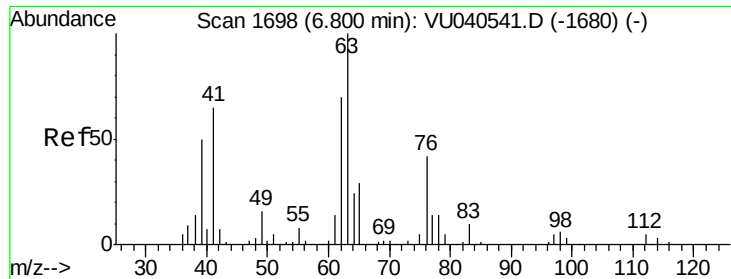
Tot Ion:	95	Resp:	5949
Ion	Ratio	Lower	Upper
95	100		
97	57.8	44.3	82.3
132	97.4	64.2	119.2
130	95.9	67.3	125.1



#35
 Methylcyclohexane
 Concen: 2.437 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. -0.00 min
 Lab File: VU040551.D
 Acq: 07 Oct 2020 18:09

Tgt Ion:	83	Resp:	8402
Ion	Ratio	Lower	Upper
83	100		
55	84.7	69.8	104.8
98	42.6	39.1	58.7

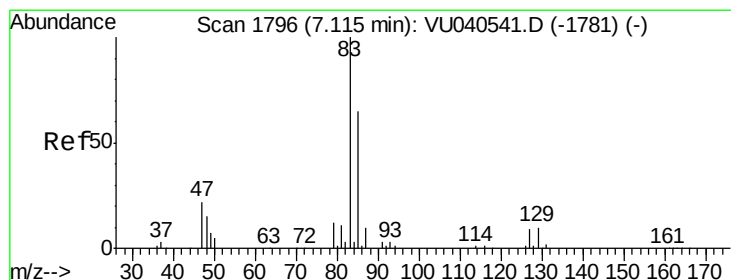
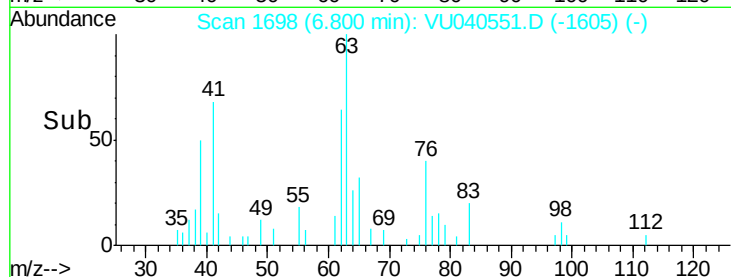
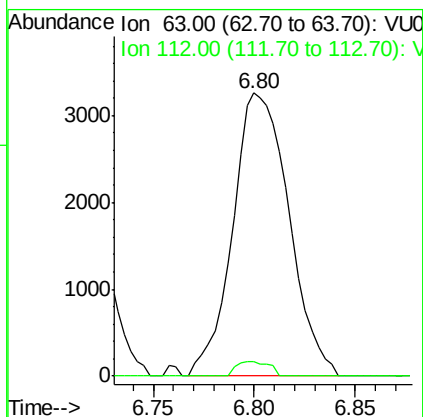
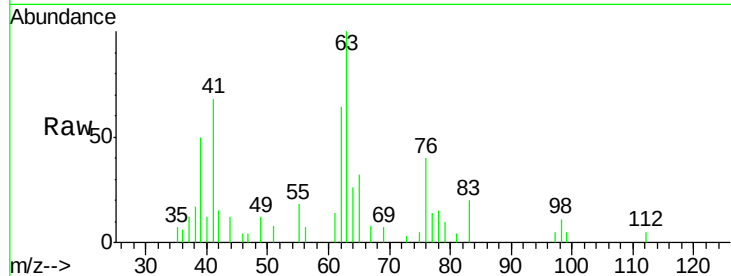




#37
 1,2-Dichloropropane
 Concen: 2.622 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VU040551.D
 Acq: 07 Oct 2020 18:09

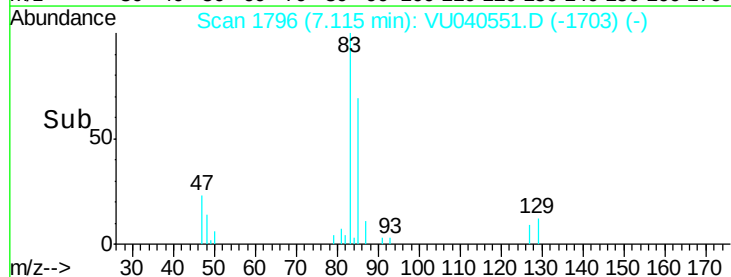
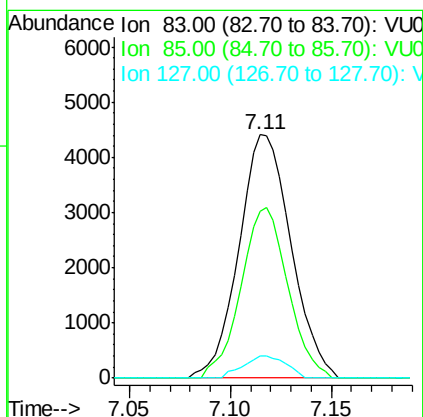
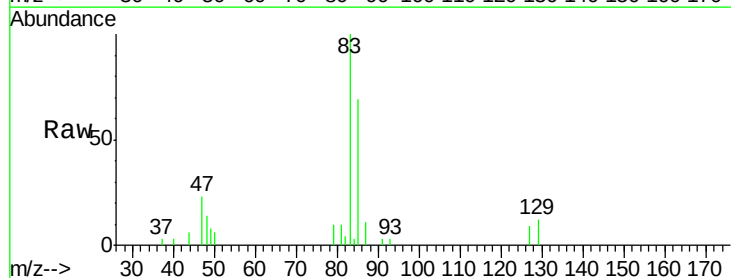
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-03

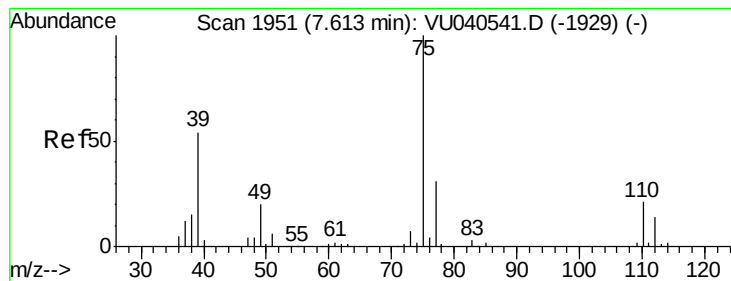
Tot Ion: 63 Resp: 6338
 Ion Ratio Lower Upper
 63 100
 112 2.6 3.5 5.3#



#38
 Bromodichloromethane
 Concen: 2.539 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU040551.D
 Acq: 07 Oct 2020 18:09

Tgt Ion: 83 Resp: 7972
 Ion Ratio Lower Upper
 83 100
 85 68.6 45.2 84.0
 127 9.0 6.7 10.1



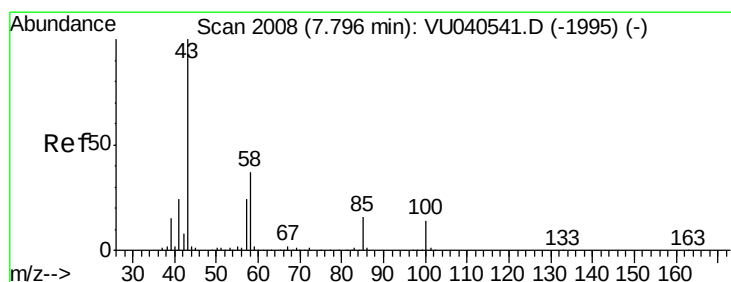
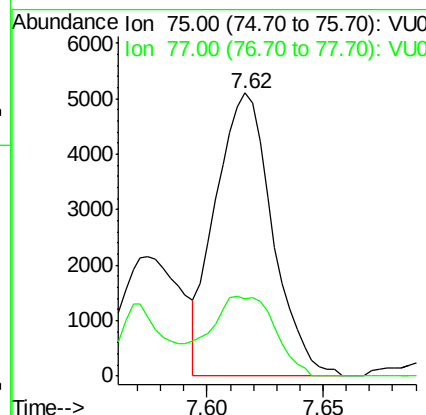
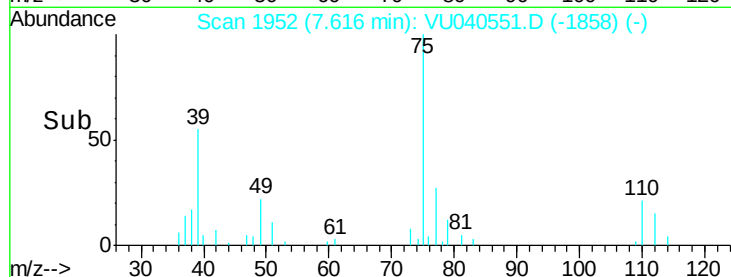
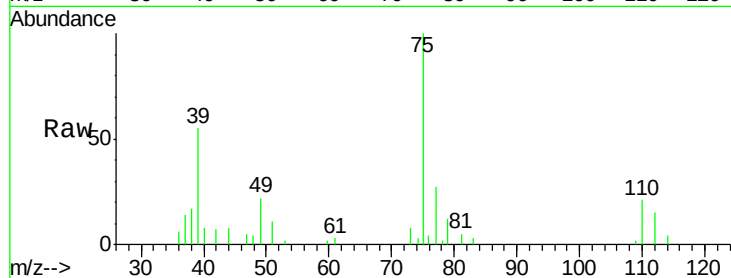


#39

cis-1,3-Dichloropropene
Concen: 2.454 ug/L
RT: 7.62 min Scan# 1952
Delta R.T. 0.00 min
Lab File: VU040551.D
Acq: 07 Oct 2020 18:09

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-03

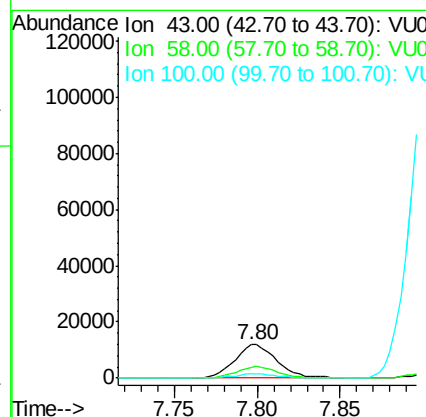
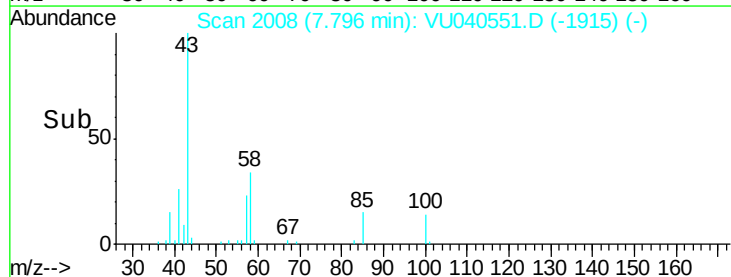
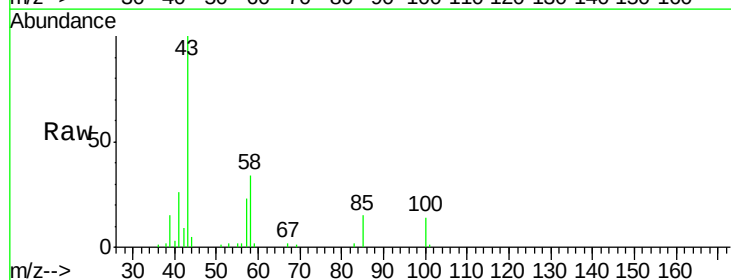
Tot Ion: 75 Resp: 8695
Ion Ratio Lower Upper
75 100
77 27.4 21.4 39.8

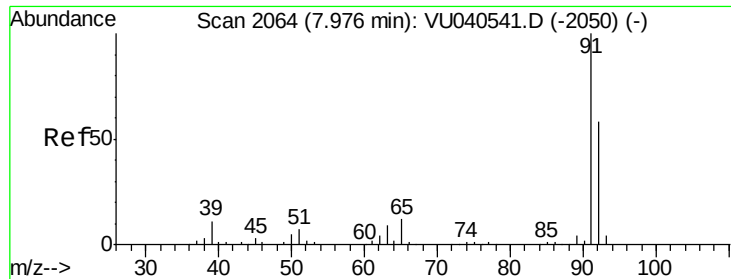


#40

4-Methyl-2-pentanone
Concen: 5.529 ug/L
RT: 7.80 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU040551.D
Acq: 07 Oct 2020 18:09

Tgt Ion: 43 Resp: 21091
Ion Ratio Lower Upper
43 100
58 34.2 29.7 44.5
100 12.9 10.5 15.7





#42

Toluene

Concen: 2.572 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

MSVOA_U

ClientSampleId :

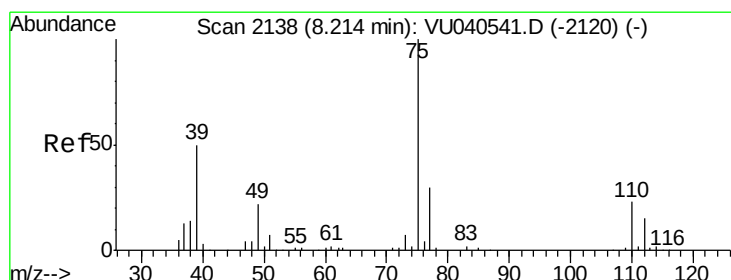
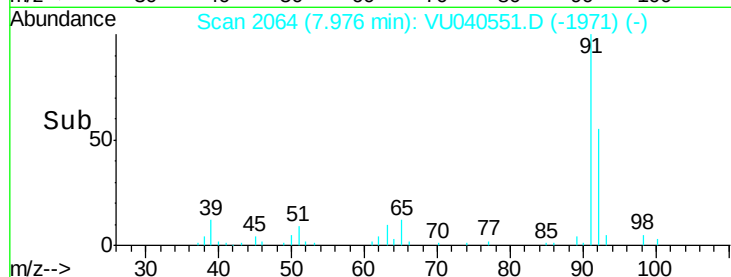
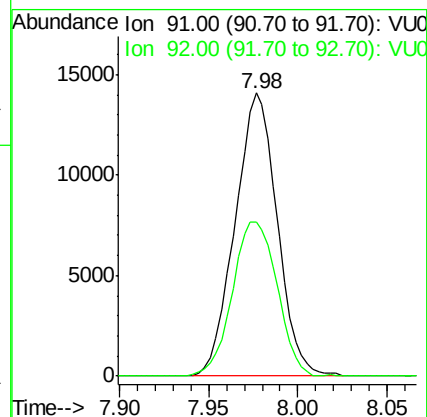
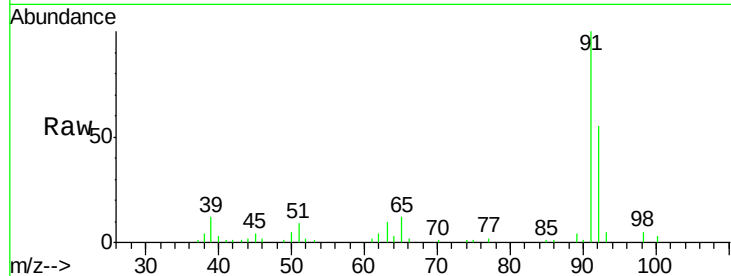
MDL-ME-SOIL-03

Tot Ion: 91 Resp: 23113

Ion Ratio Lower Upper

91 100

92 54.6 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 2.358 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU040551.D

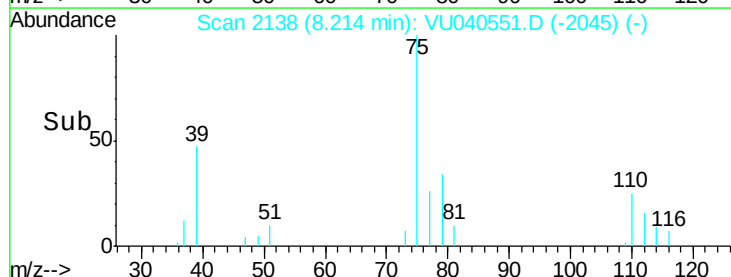
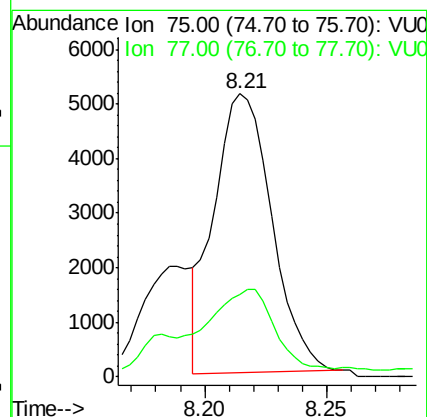
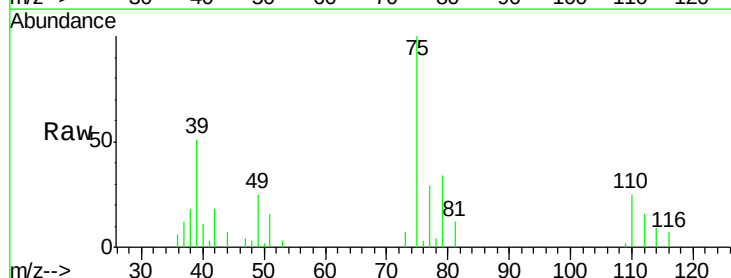
Acq: 07 Oct 2020 18:09

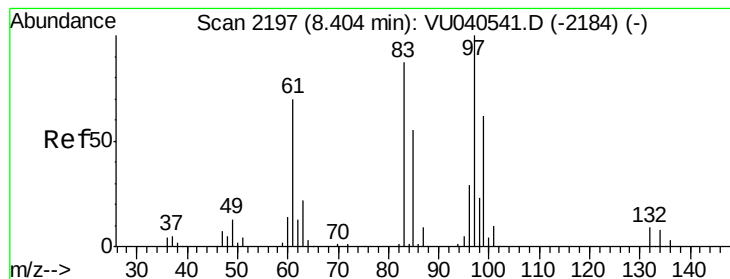
Tgt Ion: 75 Resp: 8410

Ion Ratio Lower Upper

75 100

77 29.1 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 2.565 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-03

Tot Ion: 97 Resp: 5554

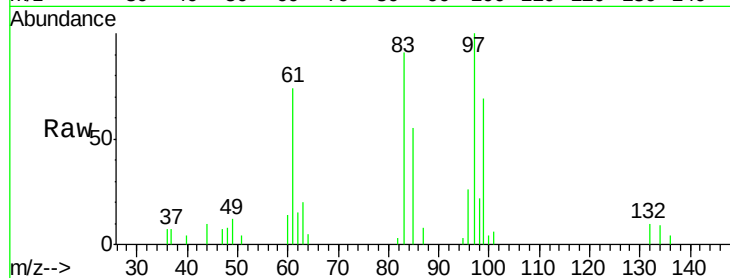
Ion Ratio Lower Upper

97 100

99 69.3 42.7 79.3

83 91.0 61.0 113.4

85 55.4 39.8 73.8

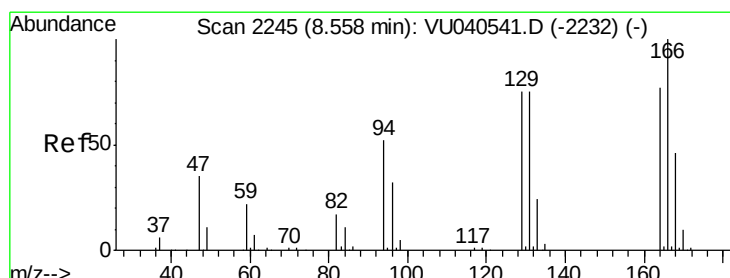
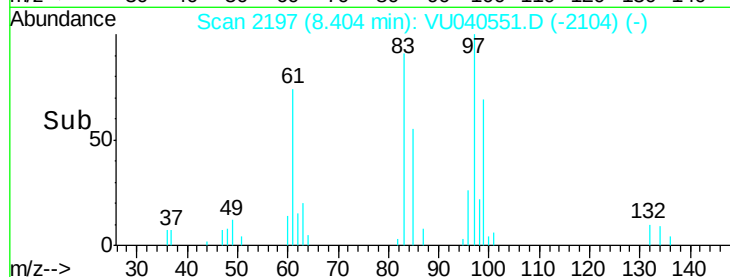
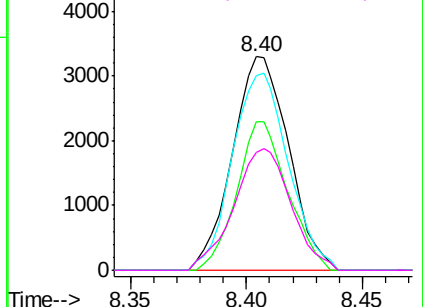


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 2.581 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Tgt Ion: 164 Resp: 4230

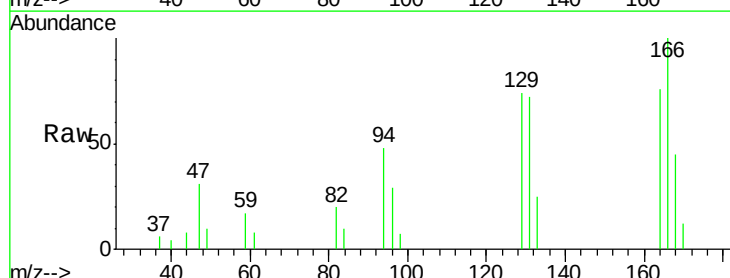
Ion Ratio Lower Upper

164 100

129 98.0 67.4 125.2

131 95.4 63.8 118.6

166 131.7 88.7 164.7

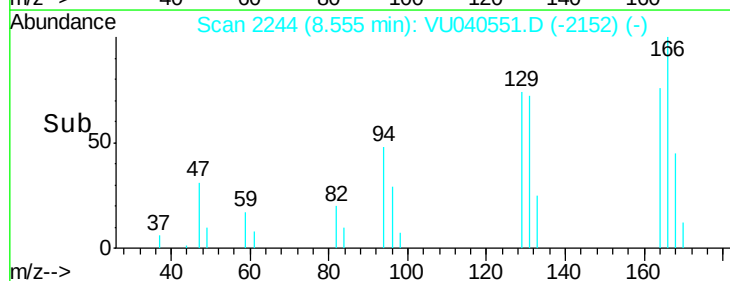
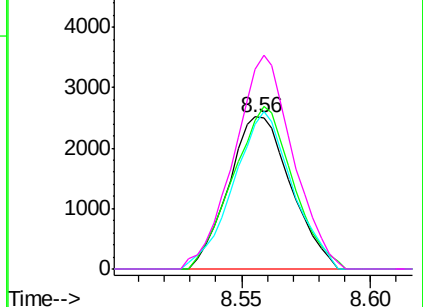


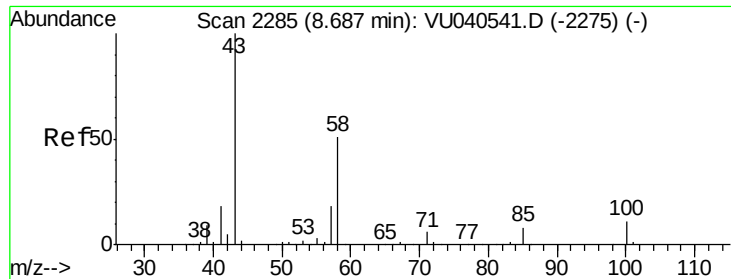
Abundance Ion 164.00 (163.70 to 164.70): V

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

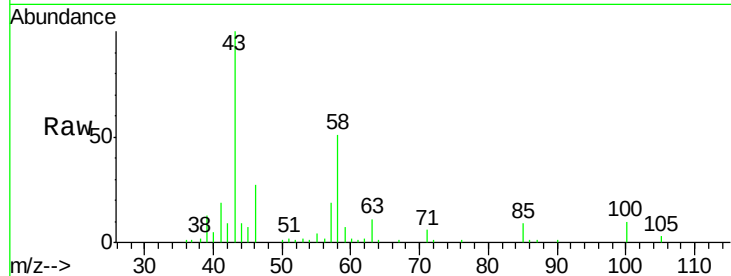




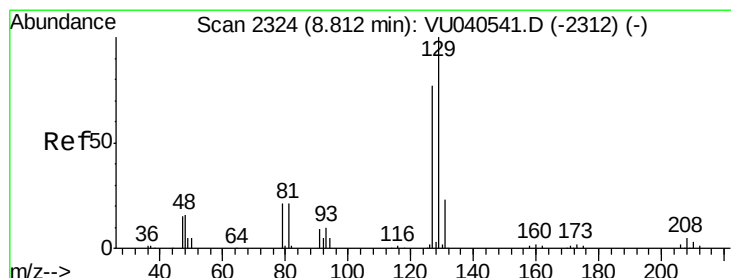
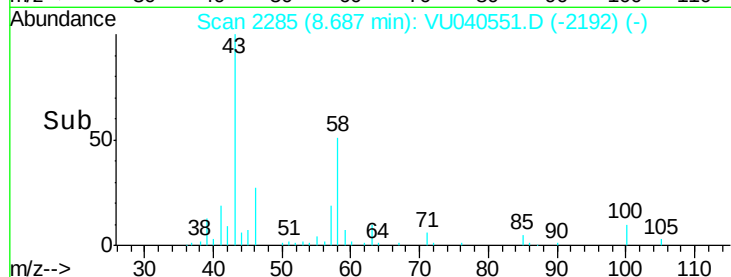
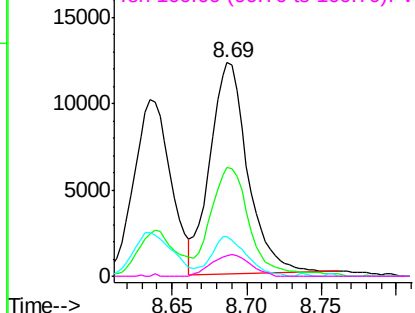
#48
2-Hexanone
Concen: 6.919 ug/L
RT: 8.69 min Scan# 2285
Delta R.T. -0.00 min
Lab File: VU040551.D
Acq: 07 Oct 2020 18:09

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-03

Tot Ion: 43 Resp: 21451
Ion Ratio Lower Upper
43 100
58 49.3 40.6 60.8
57 17.6 14.3 21.5
100 10.4 8.5 12.7

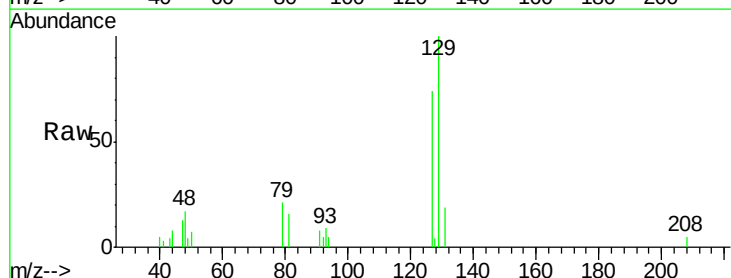


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

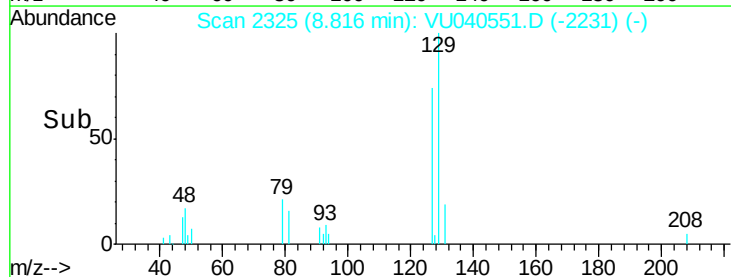
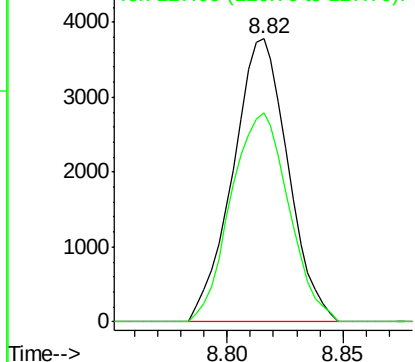


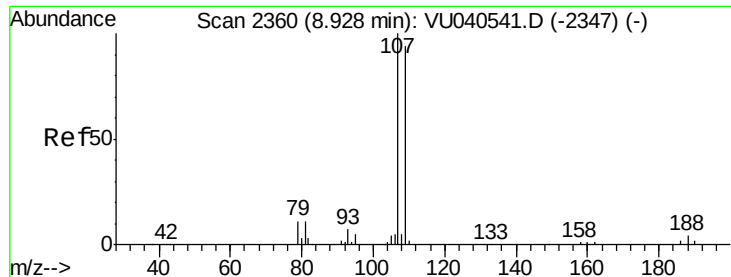
#49
Dibromochloromethane
Concen: 2.641 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU040551.D
Acq: 07 Oct 2020 18:09

Tgt Ion: 129 Resp: 6246
Ion Ratio Lower Upper
129 100
127 73.9 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

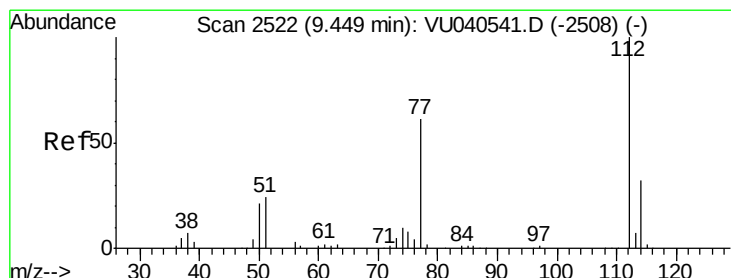
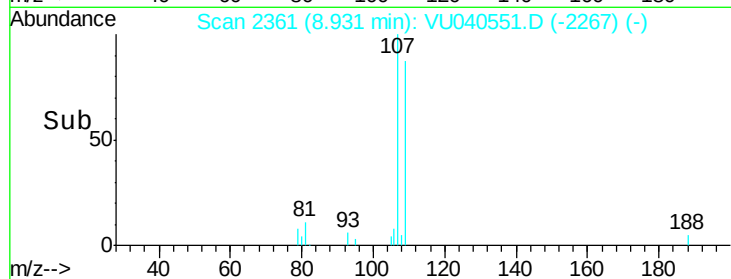
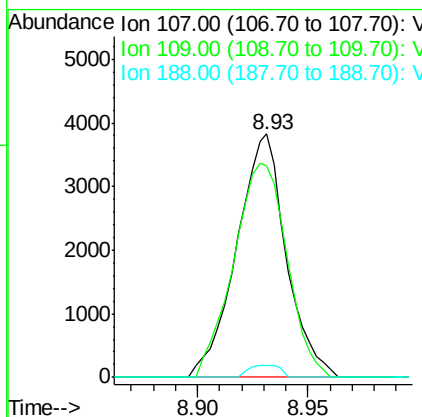
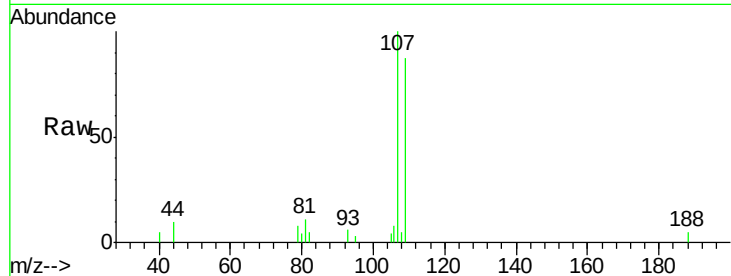




#50
 1,2-Dibromoethane
 Concen: 2.597 ug/L
 RT: 8.93 min Scan# 2361
 Delta R.T. 0.00 min
 Lab File: VU040551.D
 Acq: 07 Oct 2020 18:09

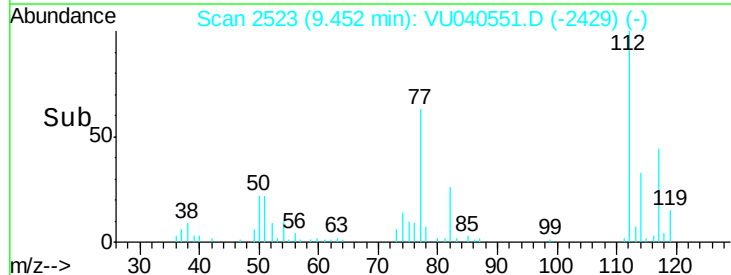
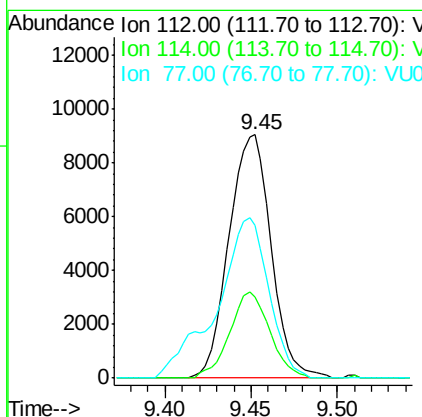
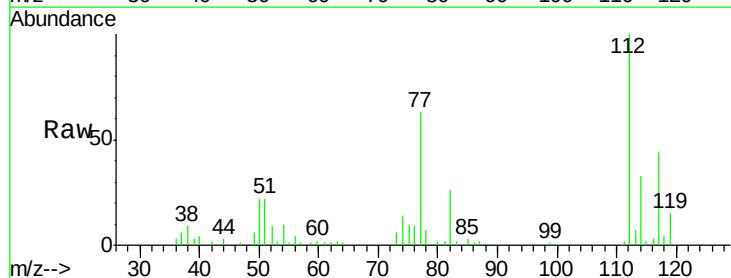
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-03

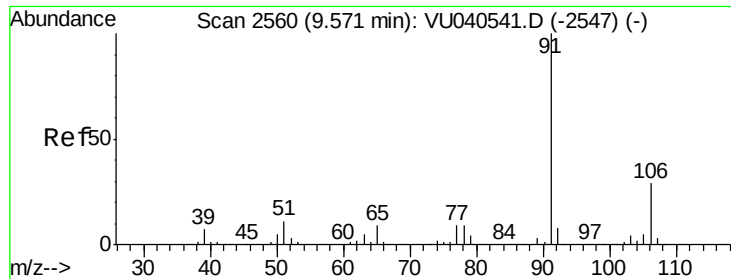
Tot Ion:107 Resp: 5961
 Ion Ratio Lower Upper
 107 100
 109 86.7 67.8 125.8
 188 4.7 2.8 4.2#



#51
 Chlorobenzene
 Concen: 2.613 ug/L
 RT: 9.45 min Scan# 2523
 Delta R.T. 0.00 min
 Lab File: VU040551.D
 Acq: 07 Oct 2020 18:09

Tgt Ion:112 Resp: 15402
 Ion Ratio Lower Upper
 112 100
 114 33.5 22.1 41.1
 77 62.6 50.4 75.6





#52

Ethylbenzene

Concen: 2.344 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

MSVOA_U

ClientSampleId :

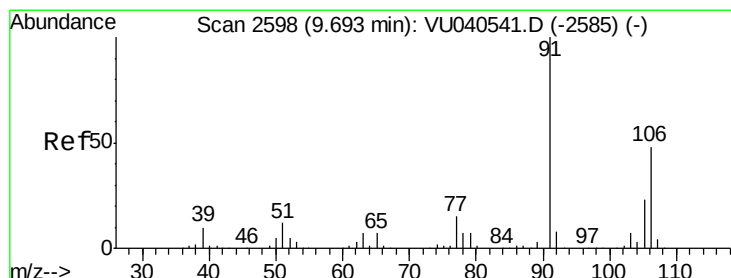
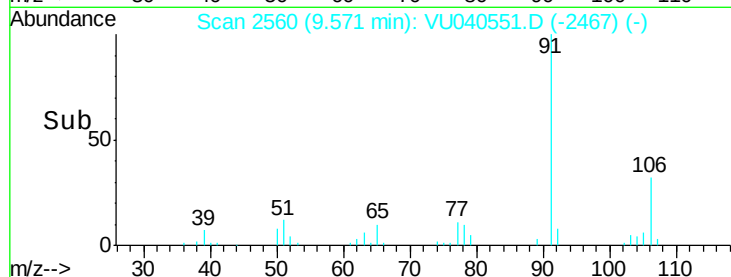
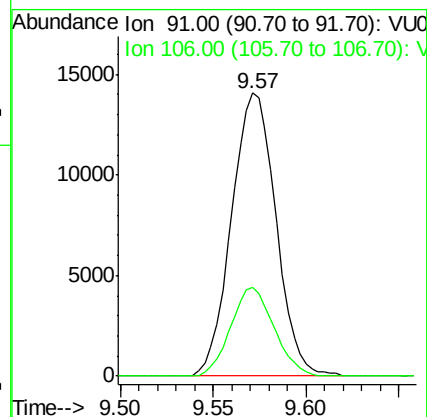
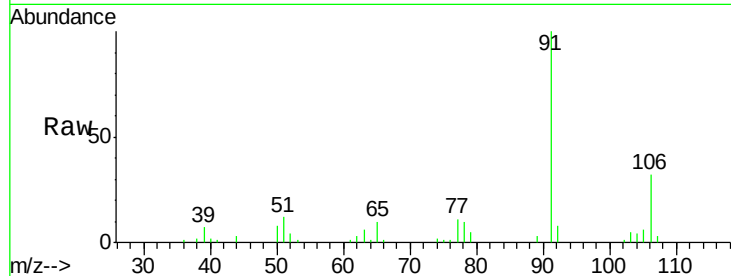
MDL-ME-SOIL-03

Tot Ion: 91 Resp: 23387

Ion Ratio Lower Upper

91 100

106 31.6 20.9 38.9



#53

m,p-Xylene

Concen: 2.252 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040551.D

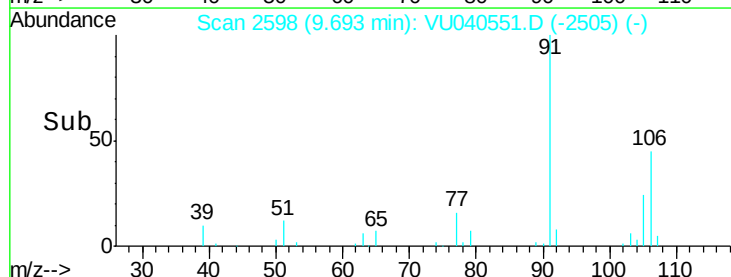
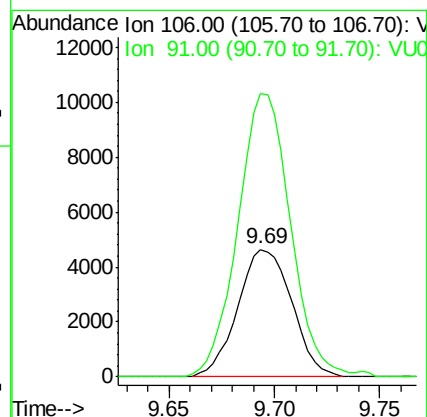
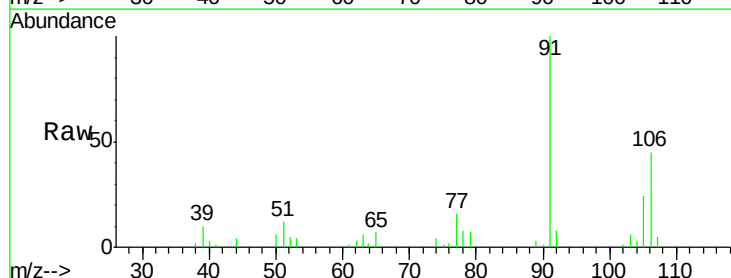
Acq: 07 Oct 2020 18:09

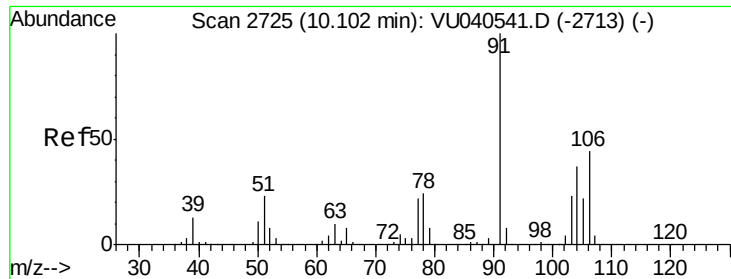
Tgt Ion: 106 Resp: 8273

Ion Ratio Lower Upper

106 100

91 222.2 150.1 278.7





#54

o-xylene

Concen: 2.249 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

MSVOA_U

ClientSampleId :

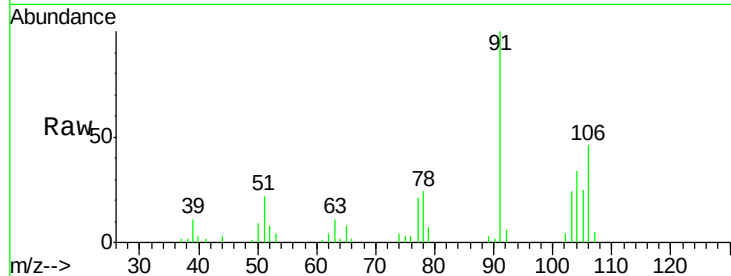
MDL-ME-SOIL-03

Tot Ion:106 Resp: 7860

Ion Ratio Lower Upper

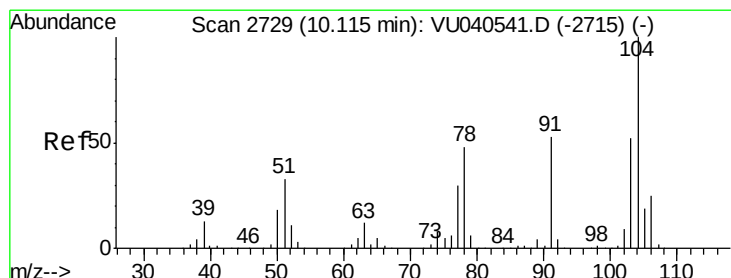
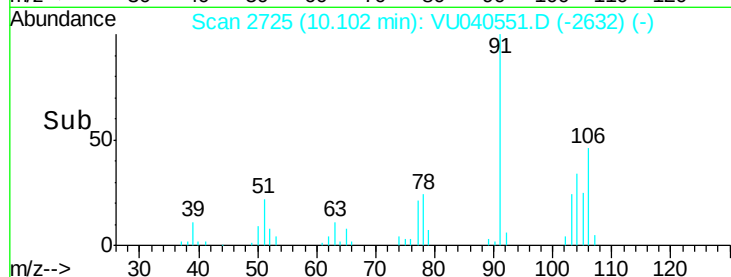
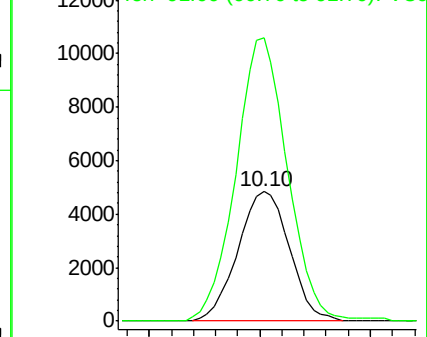
106 100

91 218.7 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.139 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU040551.D

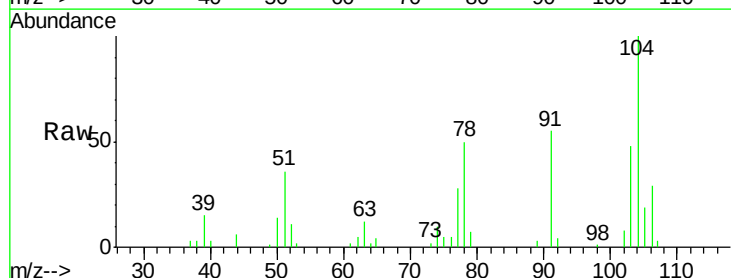
Acq: 07 Oct 2020 18:09

Tgt Ion:104 Resp: 13169

Ion Ratio Lower Upper

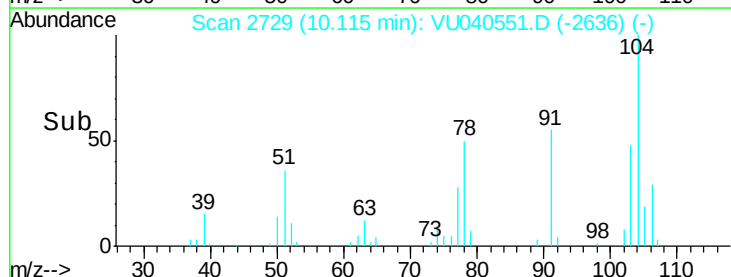
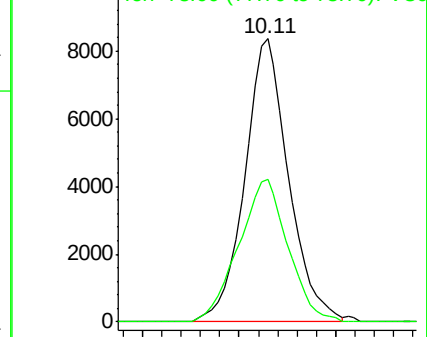
104 100

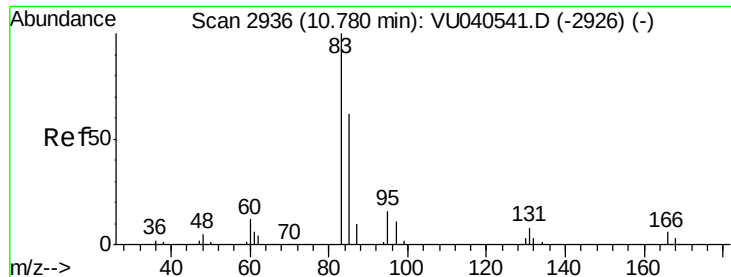
78 50.5 35.2 65.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

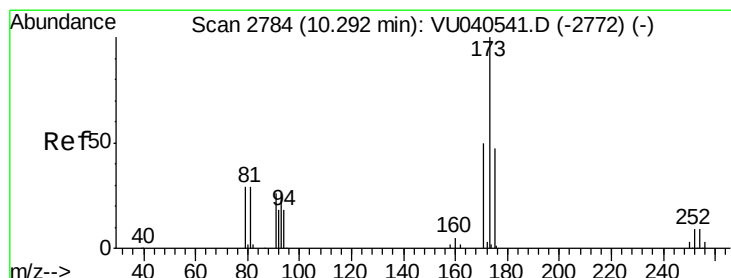
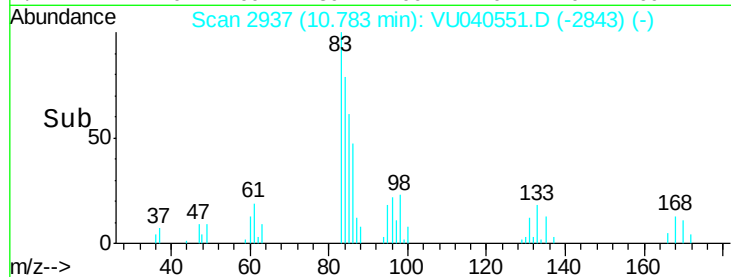
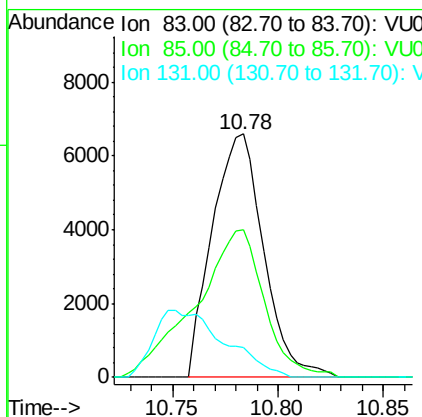
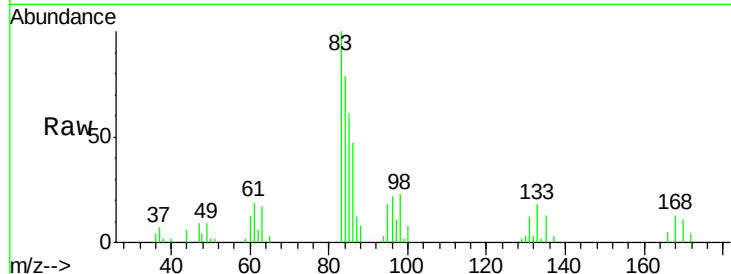




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.918 ug/L
 RT: 10.78 min Scan# 2937
 Delta R.T. 0.00 min
 Lab File: VU040551.D
 Acq: 07 Oct 2020 18:09

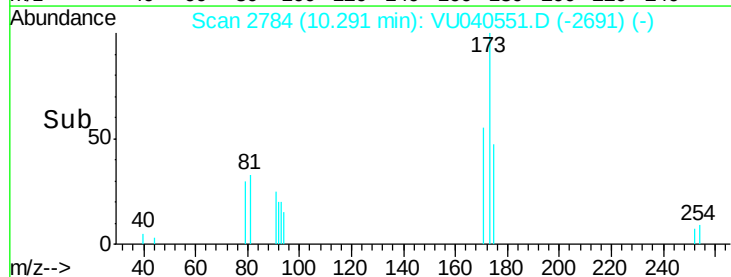
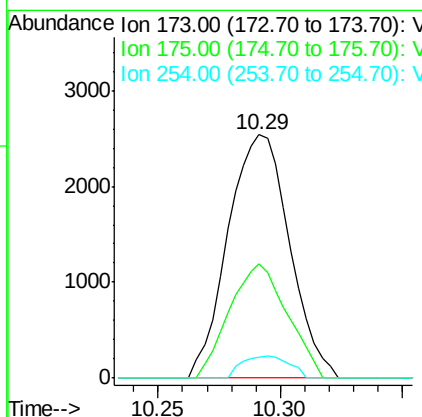
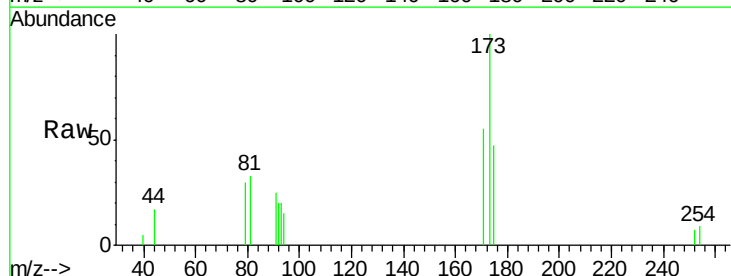
Instrument :
 MSVOA_U
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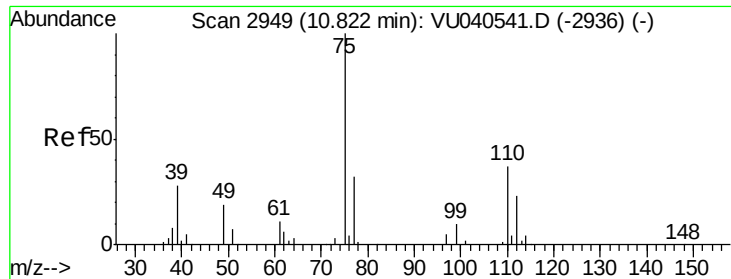
Tot Ion: 83 Resp: 11174
 Ion Ratio Lower Upper
 83 100
 85 60.6 44.2 82.2
 131 12.2 7.1 10.7#



#59
 Bromoform
 Concen: 2.801 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. -0.00 min
 Lab File: VU040551.D
 Acq: 07 Oct 2020 18:09

Tgt Ion: 173 Resp: 4440
 Ion Ratio Lower Upper
 173 100
 175 44.0 38.5 57.7
 254 7.0 7.0 10.6#

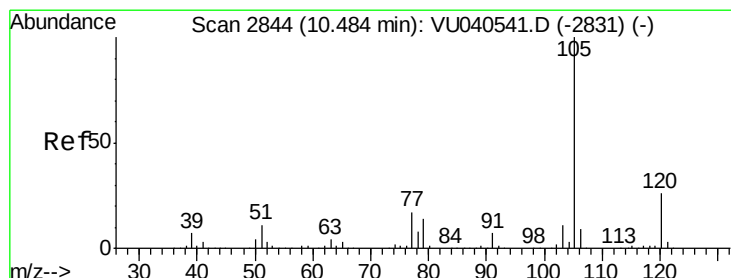
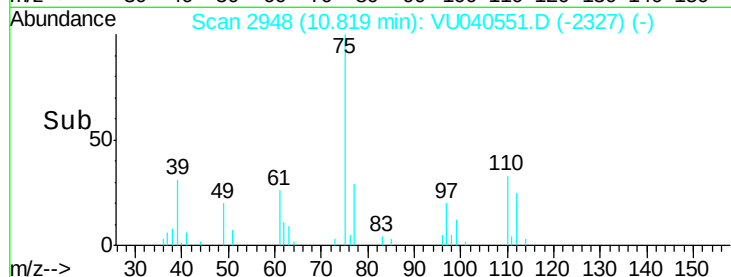
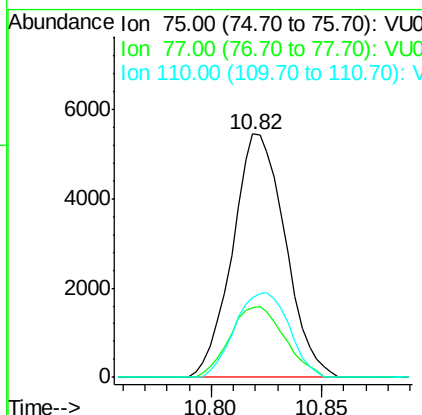
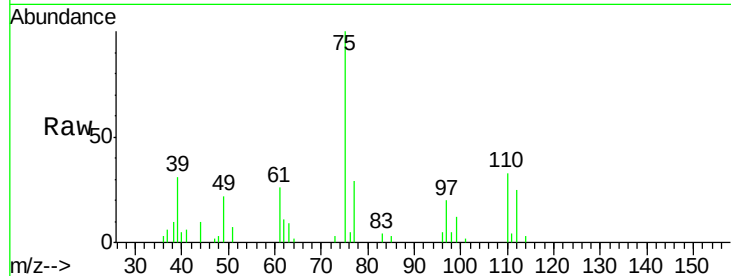




#60
1,2,3-Trichloropropane
Concen: 3.082 ug/L
RT: 10.82 min Scan# 2948
Delta R.T. -0.00 min
Lab File: VU040551.D
Acq: 07 Oct 2020 18:09

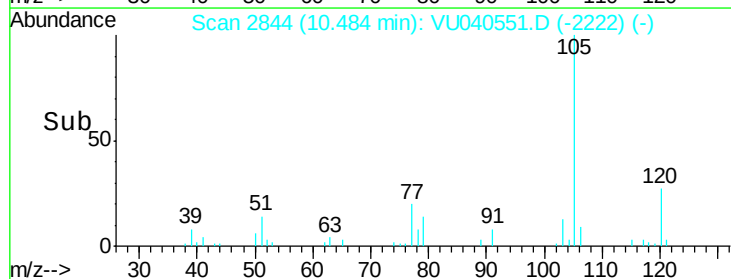
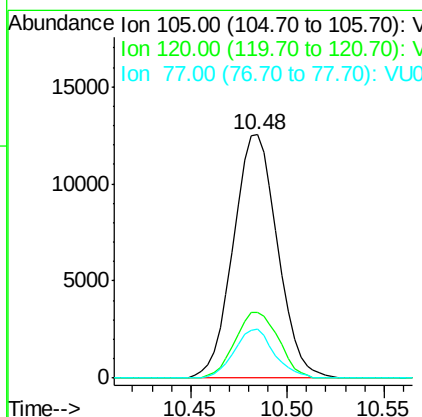
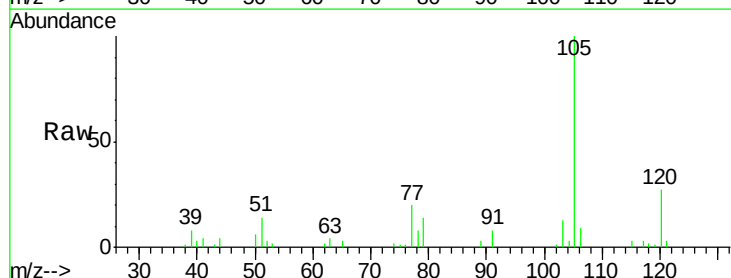
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-03

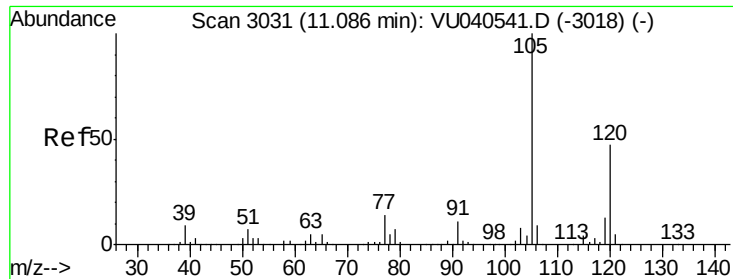
Tot Ion: 75 Resp: 9053
Ion Ratio Lower Upper
75 100
77 30.4 26.4 39.6
110 35.7 30.1 45.1



#61
Isopropylbenzene
Concen: 2.298 ug/L
RT: 10.48 min Scan# 2844
Delta R.T. -0.00 min
Lab File: VU040551.D
Acq: 07 Oct 2020 18:09

Tgt Ion: 105 Resp: 19961
Ion Ratio Lower Upper
105 100
120 26.6 20.7 31.1
77 18.1 13.8 20.8





#62

1,3,5-Trimethylbenzene

Concen: 2.241 ug/L

RT: 11.09 min Scan# 3031

Delta R.T. -0.00 min

Lab File: VU040551.D

Acq: 07 Oct 2020 18:09

Instrument :

MSVOA_U

ClientSampleId :

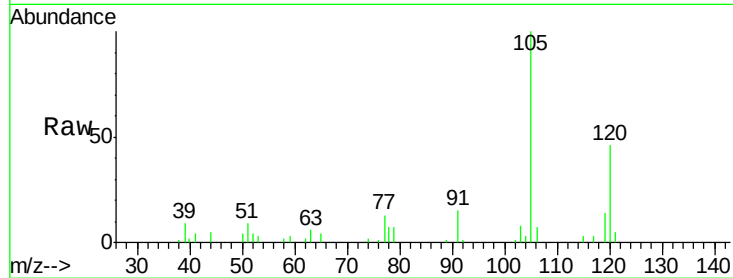
MDL-ME-SOIL-03

Tot Ion:105 Resp: 15992

Ion Ratio Lower Upper

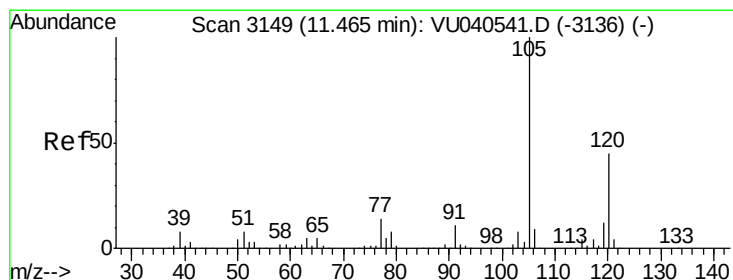
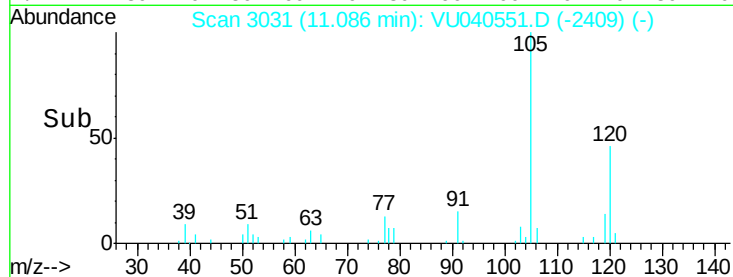
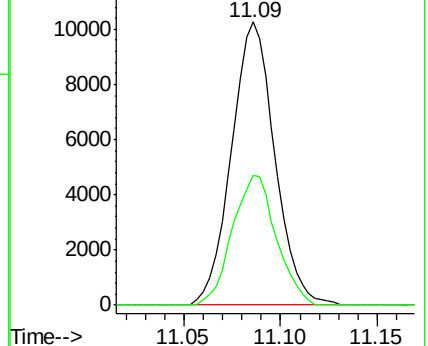
105 100

120 46.3 38.6 58.0



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: 2.038 ug/L

RT: 11.47 min Scan# 3149

Delta R.T. -0.00 min

Lab File: VU040551.D

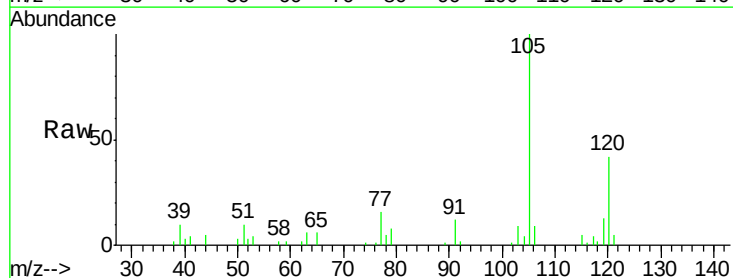
Acq: 07 Oct 2020 18:09

Tgt Ion:105 Resp: 14750

Ion Ratio Lower Upper

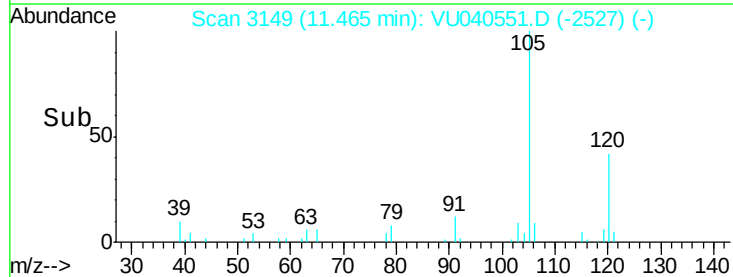
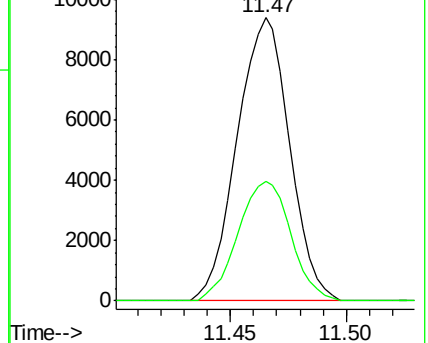
105 100

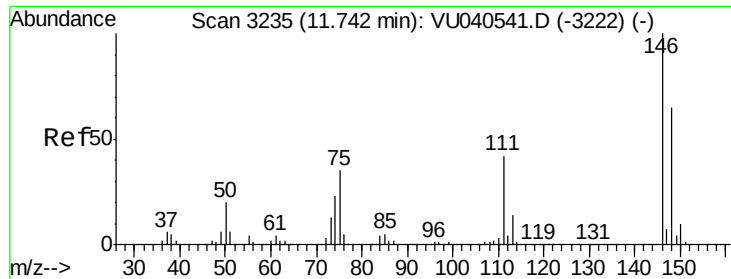
120 42.5 35.7 53.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

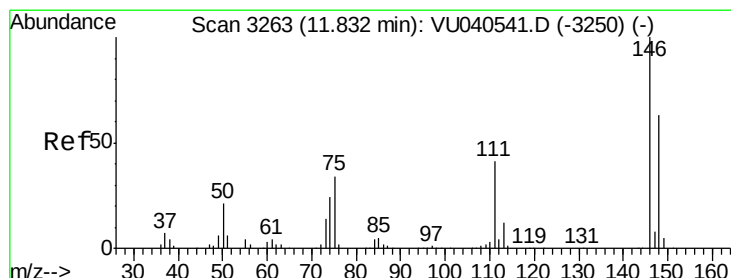
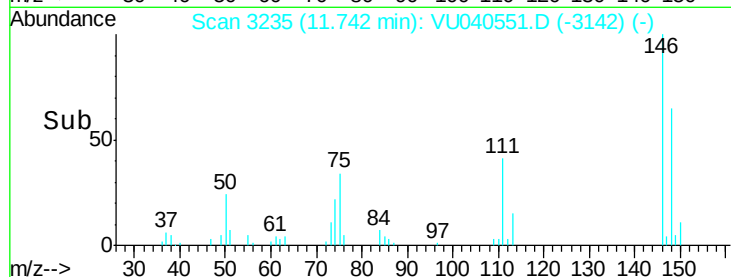
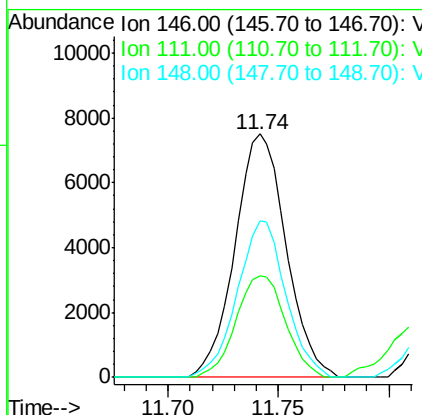
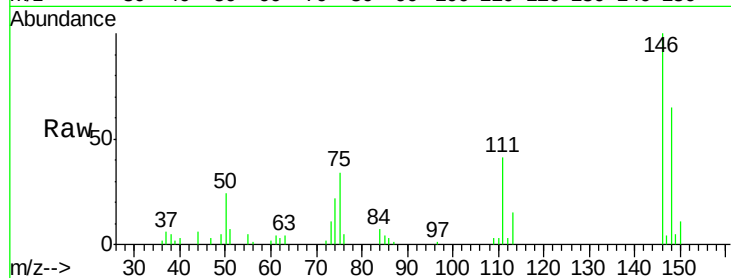




#64
 1,3-Dichlorobenzene
 Concen: 2.858 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU040551.D
 Acq: 07 Oct 2020 18:09

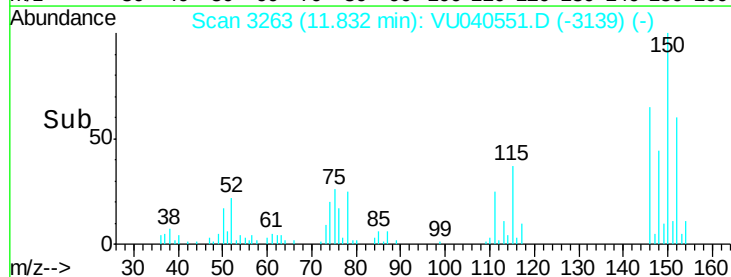
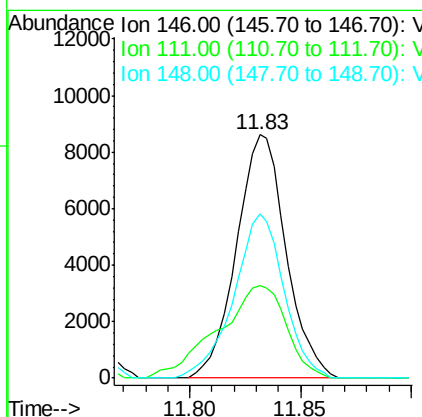
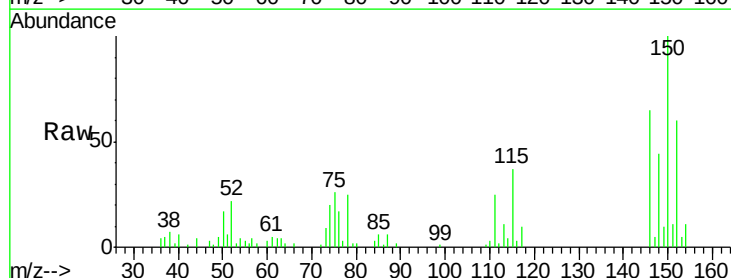
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-03

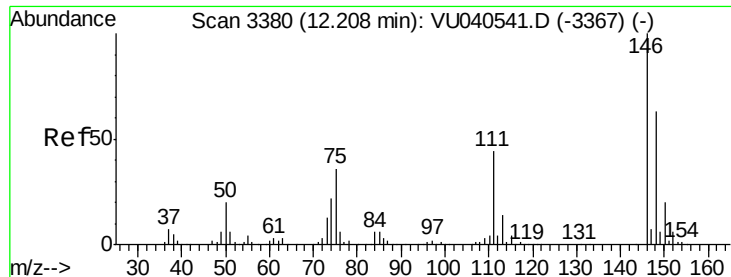
Tot Ion:146 Resp: 12104
 Ion Ratio Lower Upper
 146 100
 111 41.5 30.8 57.2
 148 64.5 45.4 84.2



#65
 1,4-Dichlorobenzene
 Concen: 3.015 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU040551.D
 Acq: 07 Oct 2020 18:09

Tgt Ion:146 Resp: 13411
 Ion Ratio Lower Upper
 146 100
 111 38.0 28.7 53.3
 148 67.5 44.1 81.9

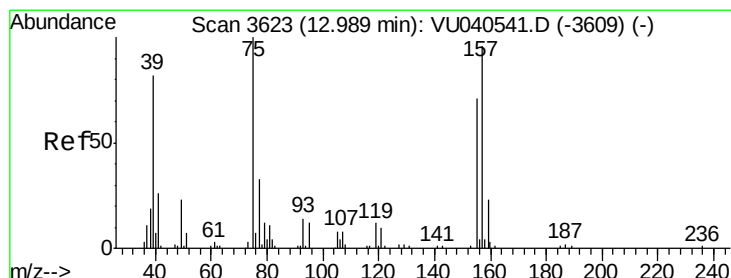
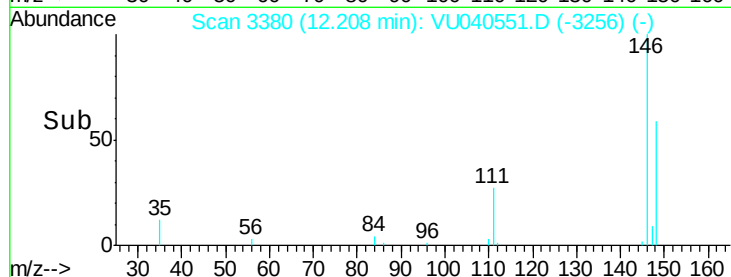
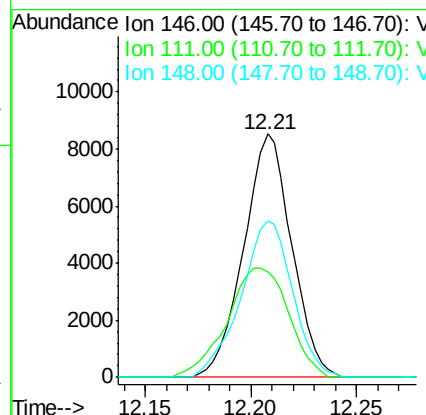
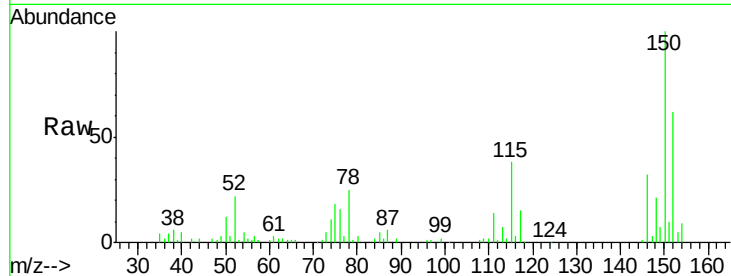




#67
 1,2-Dichlorobenzene
 Concen: 3.186 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. -0.00 min
 Lab File: VU040551.D
 Acq: 07 Oct 2020 18:09

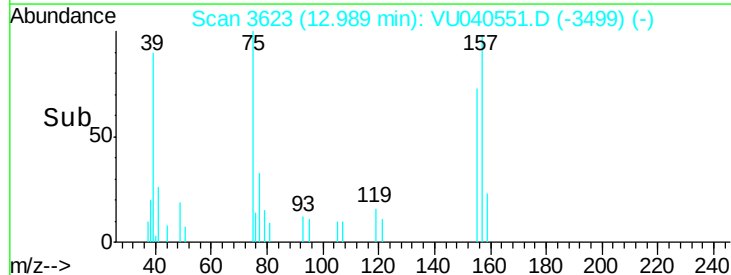
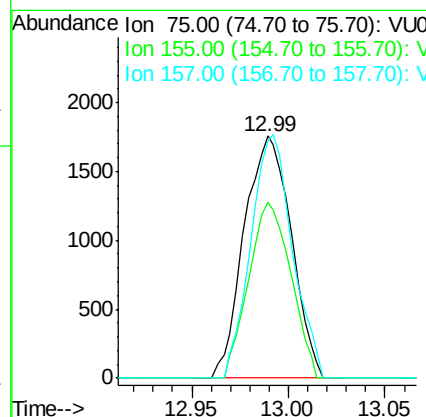
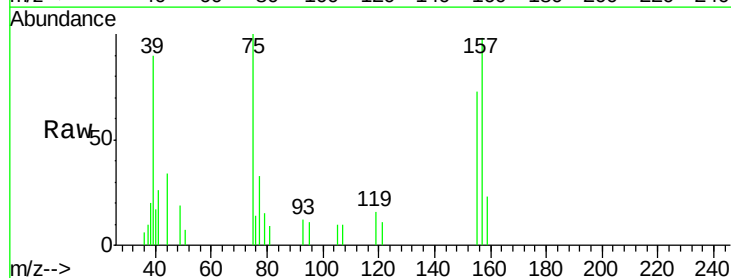
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-03

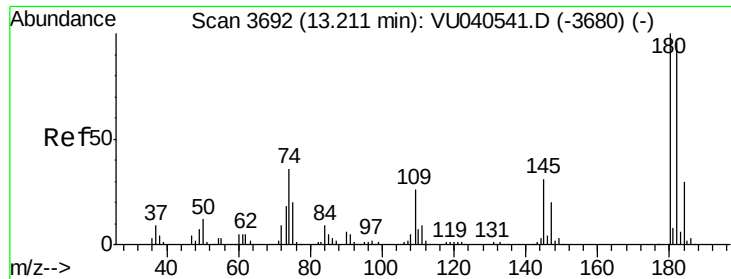
Tot Ion:146 Resp: 13517
 Ion Ratio Lower Upper
 146 100
 111 43.1 35.7 53.5
 148 64.4 50.6 75.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 3.591 ug/L
 RT: 12.99 min Scan# 3623
 Delta R.T. -0.00 min
 Lab File: VU040551.D
 Acq: 07 Oct 2020 18:09

Tgt Ion: 75 Resp: 2964
 Ion Ratio Lower Upper
 75 100
 155 72.7 61.0 91.6
 157 98.2 73.5 110.3

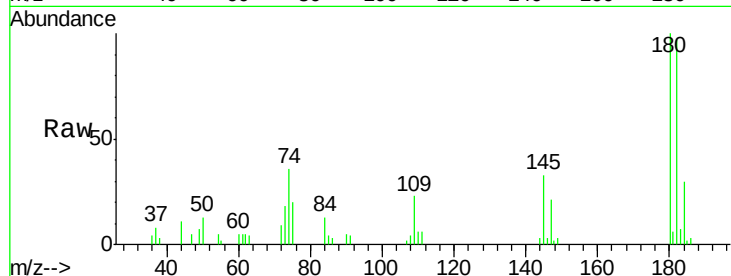




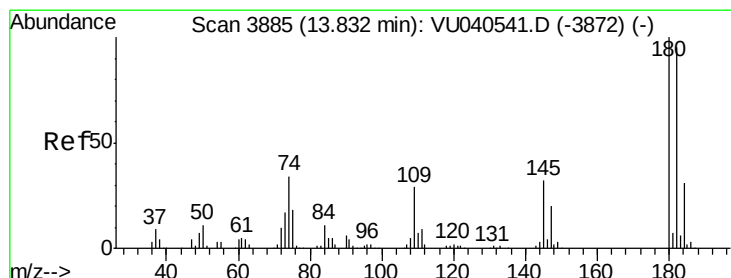
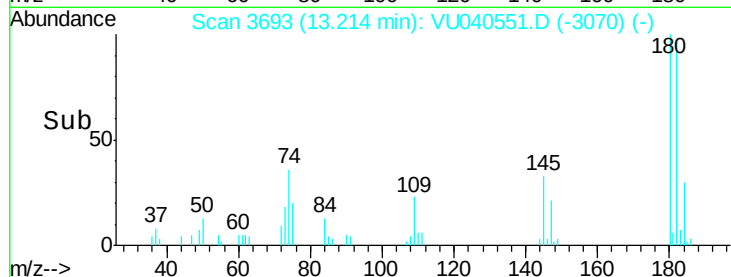
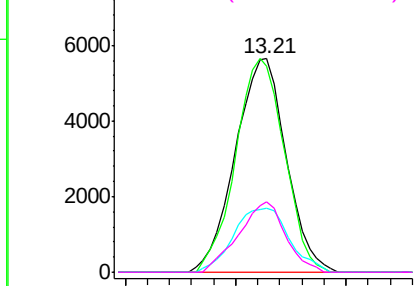
#69
 1,3,5-Trichlorobenzene
 Concen: 3.260 ug/L
 RT: 13.21 min Scan# 3693
 Delta R.T. 0.00 min
 Lab File: VU040551.D
 Acq: 07 Oct 2020 18:09

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-03

Tot Ion:180 Resp: 9045
 Ion Ratio Lower Upper
 180 100
 182 95.5 76.9 115.3
 184 32.8 24.2 36.2
 145 30.3 25.4 38.2

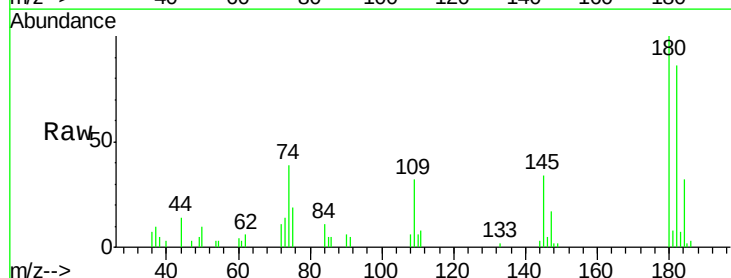


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

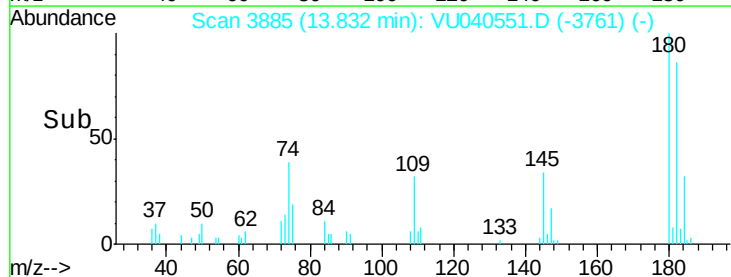
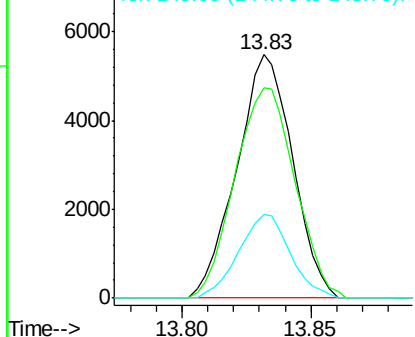


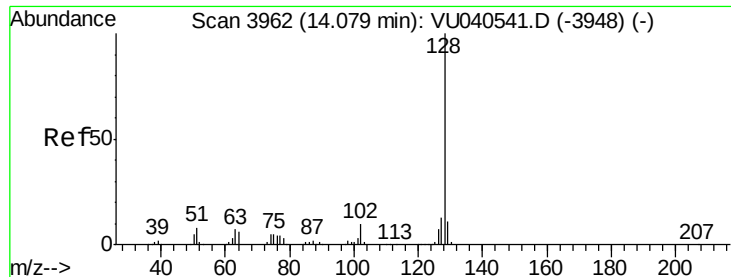
#70
 1,2,4-trichlorobenzene
 Concen: 3.452 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU040551.D
 Acq: 07 Oct 2020 18:09

Tgt Ion:180 Resp: 8302
 Ion Ratio Lower Upper
 180 100
 182 92.6 75.0 112.6
 145 31.9 25.9 38.9



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

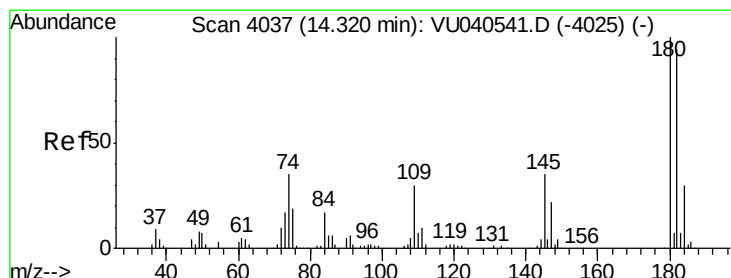
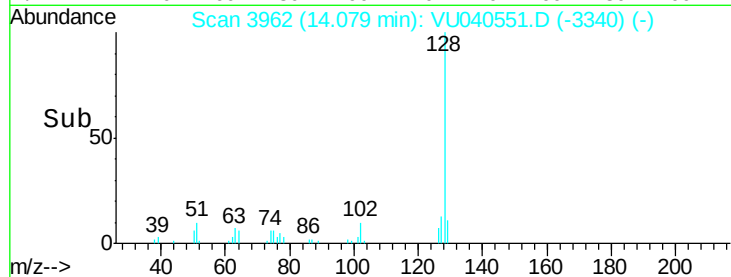
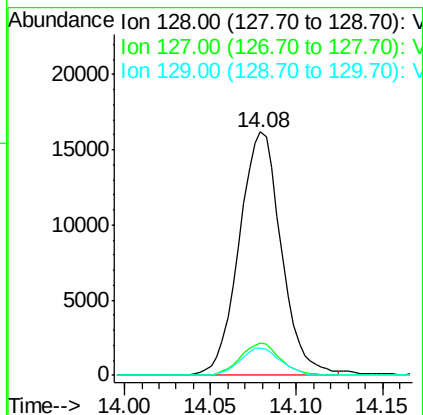
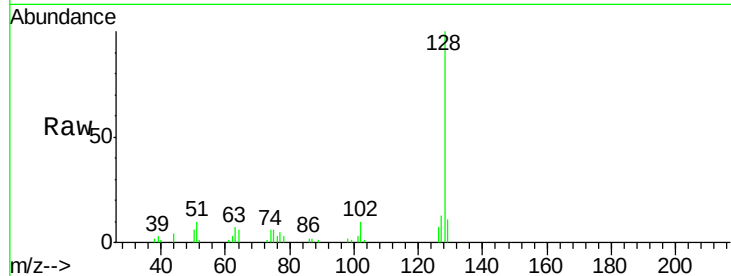




#71
Naphthalene
Concen: 3.708 ug/L
RT: 14.08 min Scan# 3962
Delta R.T. -0.00 min
Lab File: VU040551.D
Acq: 07 Oct 2020 18:09

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-03

Tot Ion:128 Resp: 27562
Ion Ratio Lower Upper
128 100
127 12.7 10.5 15.7
129 10.8 8.6 13.0



#72
1,2,3-Trichlorobenzene
Concen: 3.728 ug/L
RT: 14.32 min Scan# 4037
Delta R.T. -0.00 min
Lab File: VU040551.D
Acq: 07 Oct 2020 18:09

Tgt Ion:180 Resp: 8899
Ion Ratio Lower Upper
180 100
182 95.6 77.7 116.5
145 35.5 28.4 42.6

