

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101020\
 Data File : VU040630.D
 Acq On : 10 Oct 2020 12:43
 Operator : SY/MD
 Sample : MDL06
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-06

Quant Time: Oct 12 01:38:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Oct 12 01:29:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	253435	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	251732	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	116891	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	94701	43.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.02%
7) Chloroethane-d5	1.92	69	75038	45.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.50%
11) 1,1-Dichloroethene-d2	2.58	63	145341	35.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.00%
21) 2-Butanone-d5	4.65	46	199867	115.71	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	115.71%
24) Chloroform-d	5.08	84	178317	47.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.00%
26) 1,2-Dichloroethane-d4	5.72	65	128822	49.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.54%
32) Benzene-d6	5.74	84	348254	48.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.22%
36) 1,2-Dichloropropane-d6	6.70	67	116658	48.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.16%
41) Toluene-d8	7.91	98	301490	46.42	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.84%
43) trans-1,3-Dichloropropene-	8.19	79	55234	45.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.90%
47) 2-Hexanone-d5	8.64	63	123706	110.51	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	110.51%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	171158	49.35	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.70%
66) 1,2-Dichlorobenzene-d4	12.19	152	120479	50.65	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	5657	2.318 ug/L	93
3) Chloromethane	1.53	50	5947	2.319 ug/L	97
5) Vinyl chloride	1.61	62	5703	2.246 ug/L #	5
6) Bromomethane	1.87	94	2630	1.973 ug/L	93
8) Chloroethane	1.94	64	3388	2.212 ug/L	100
9) Trichlorofluoromethane	2.15	101	8149	2.502 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	5292	2.726 ug/L	93
12) 1,1-Dichloroethene	2.59	96	5365	2.989 ug/L #	1
13) Acetone	2.65	43	8811	5.312 ug/L	93
14) Carbon disulfide	2.81	76	13689	2.221 ug/L	96
15) Methyl Acetate	2.97	43	6798	2.512 ug/L	99
16) Methylene chloride	3.07	84	5596	2.629 ug/L	91
17) trans-1,2-Dichloroethene	3.37	96	4388	2.295 ug/L	88
18) Methyl tert-butyl Ether	3.38	73	12806	2.130 ug/L	99
19) 1,1-Dichloroethane	3.89	63	8660	2.271 ug/L	96
20) cis-1,2-Dichloroethene	4.69	96	3872	1.879 ug/L	91
22) 2-Butanone	4.73	43	10090	4.768 ug/L #	64

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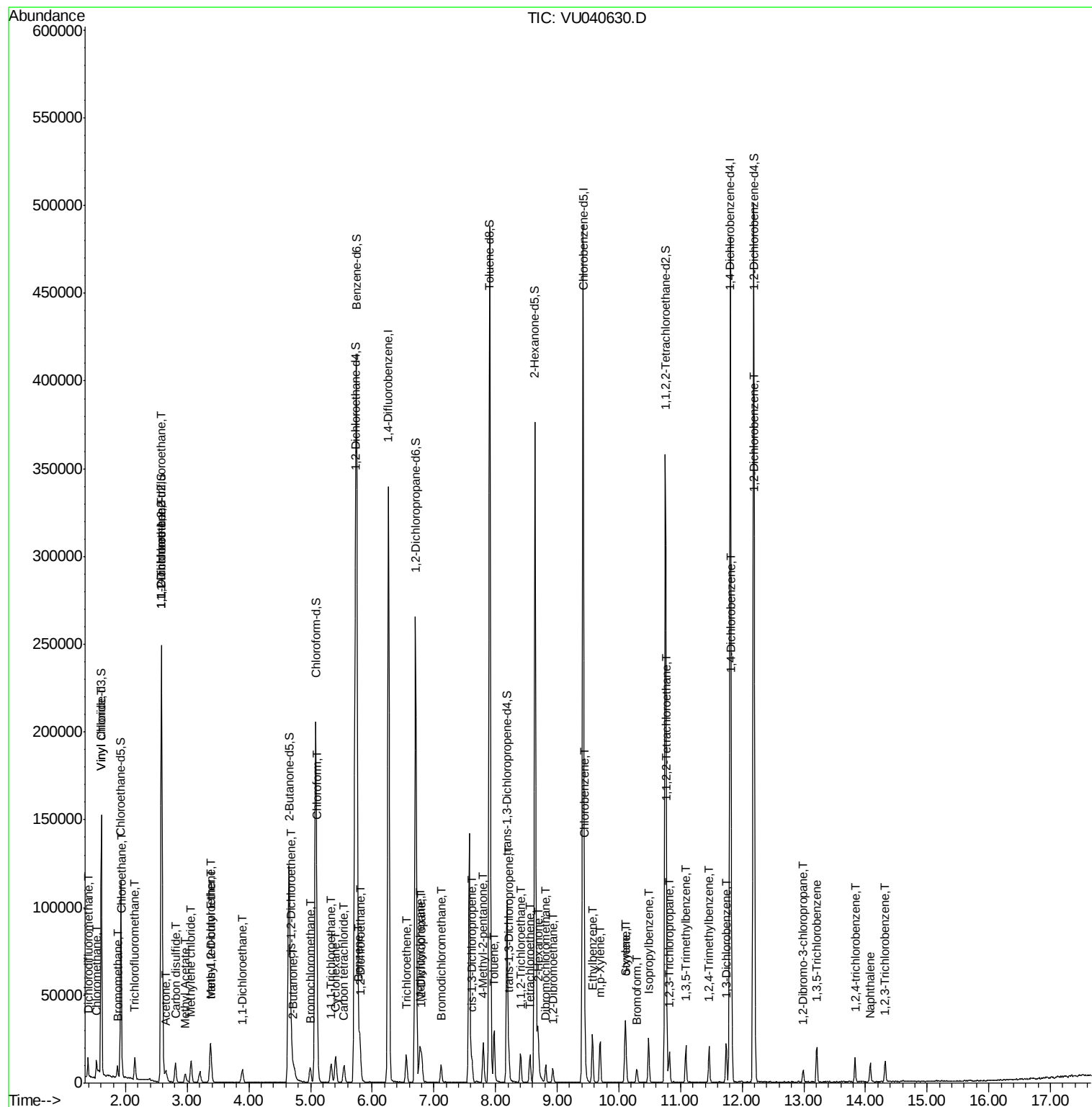
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.00	128	2512	2.340	ug/L	84
25) Chloroform	5.11	83	12215	3.142	ug/L	99
27) 1,2-Dichloroethane	5.81	62	8101	2.525	ug/L	98
29) Cyclohexane	5.41	56	6797	2.017	ug/L	93
30) 1,1,1-Trichloroethane	5.34	97	7462	2.308	ug/L #	90
31) Carbon tetrachloride	5.54	117	6332	2.265	ug/L	97
33) Benzene	5.79	78	19675	2.418	ug/L	100
34) Trichloroethene	6.56	95	4725	2.254	ug/L	94
35) Methylcyclohexane	6.77	83	6814	2.138	ug/L	92
37) 1,2-Dichloropropane	6.81	63	5358	2.398	ug/L	98
38) Bromodichloromethane	7.12	83	6374	2.196	ug/L	97
39) cis-1,3-Dichloropropene	7.62	75	7207	2.201	ug/L	94
40) 4-Methyl-2-pentanone	7.80	43	16079	4.561	ug/L	96
42) Toluene	7.98	91	18843	2.268	ug/L	93
44) trans-1,3-Dichloropropene	8.22	75	6748	2.047	ug/L	92
45) 1,1,2-Trichloroethane	8.40	97	5028	2.512	ug/L	94
46) Tetrachloroethene	8.56	164	3698	2.442	ug/L	84
48) 2-Hexanone	8.69	43	16359	5.709	ug/L	95
49) Dibromochloromethane	8.82	129	4902	2.243	ug/L	96
50) 1,2-Dibromoethane	8.93	107	4754	2.241	ug/L #	96
51) Chlorobenzene	9.45	112	12001	2.203	ug/L	99
52) Ethylbenzene	9.57	91	18691	2.027	ug/L	95
53) m,p-Xylene	9.69	106	6318	1.861	ug/L	95
54) o-xylene	10.10	106	6124	1.896	ug/L	92
55) Styrene	10.11	104	9407	1.653	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.78	83	7896	2.231	ug/L #	95
59) Bromoform	10.29	173	3251	2.269	ug/L #	91
60) 1,2,3-Trichloropropane	10.82	75	7304	2.751	ug/L	96
61) Isopropylbenzene	10.48	105	15118	1.926	ug/L	99
62) 1,3,5-Trimethylbenzene	11.09	105	11408	1.769	ug/L	99
63) 1,2,4-Trimethylbenzene	11.46	105	11321	1.731	ug/L	95
64) 1,3-Dichlorobenzene	11.74	146	8566	2.238	ug/L	94
65) 1,4-Dichlorobenzene	11.83	146	9966	2.479	ug/L	93
67) 1,2-Dichlorobenzene	12.21	146	10196	2.659	ug/L	95
68) 1,2-Dibromo-3-chloropropan	12.99	75	1855	2.487	ug/L	90
69) 1,3,5-Trichlorobenzene	13.21	180	5808	2.316	ug/L	95
70) 1,2,4-trichlorobenzene	13.83	180	4289	1.973	ug/L	97
71) Naphthalene	14.08	128	8572	1.276	ug/L	98
72) 1,2,3-Trichlorobenzene	14.32	180	3816	1.769	ug/L	97

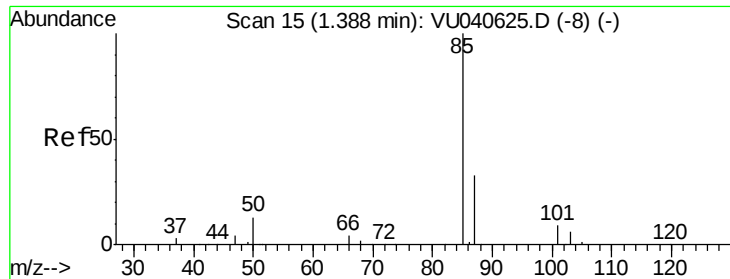
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.318 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Instrument :

MSVOA_U

ClientSampleId :

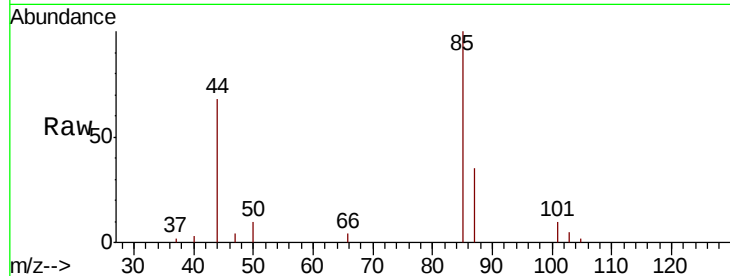
MDL-ME-SOIL-06

Tot Ion: 85 Resp: 5657

Ion Ratio Lower Upper

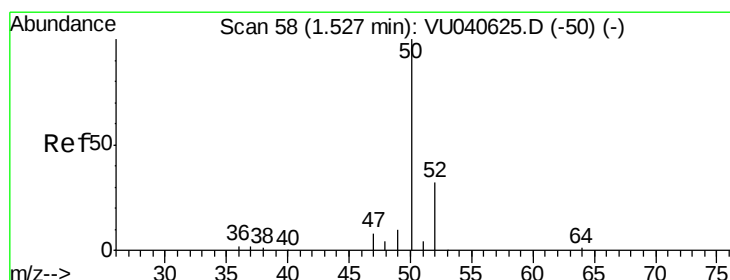
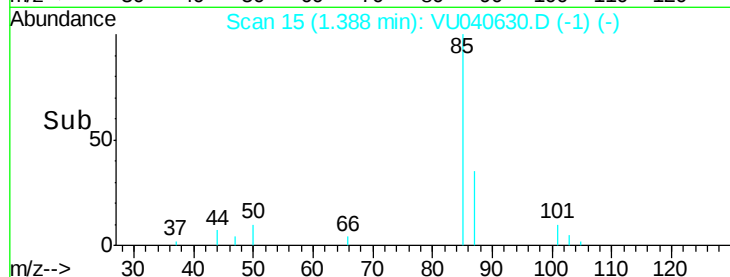
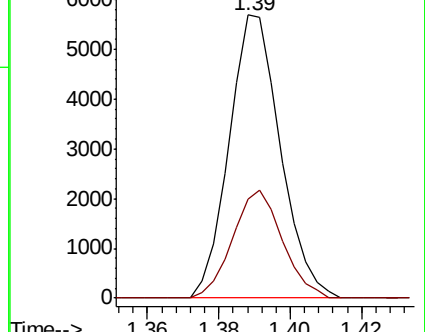
85 100

87 36.8 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU040630.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU040630.D (-1) (-)



#3

Chloromethane

Concen: 2.319 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040630.D

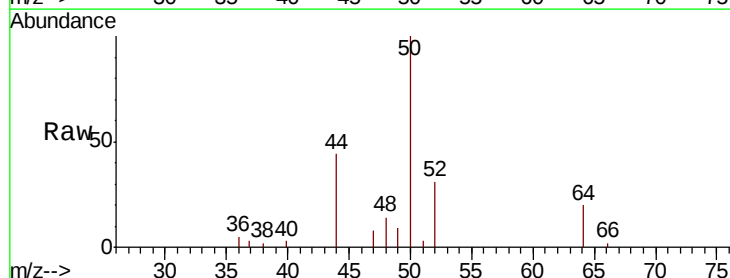
Acq: 10 Oct 2020 12:43

Tgt Ion: 50 Resp: 5947

Ion Ratio Lower Upper

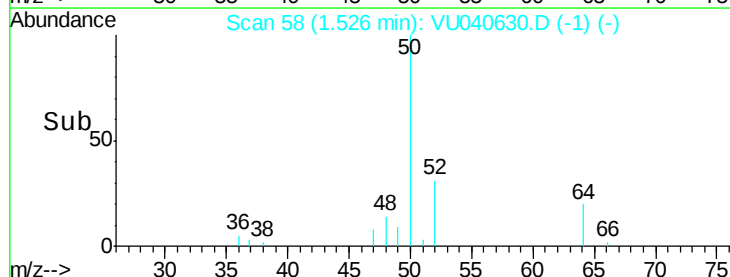
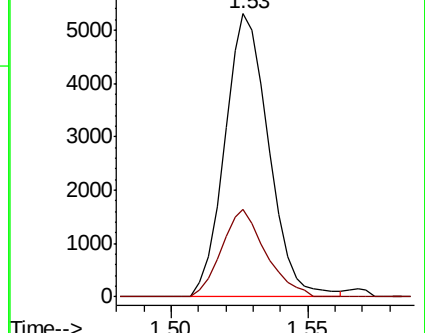
50 100

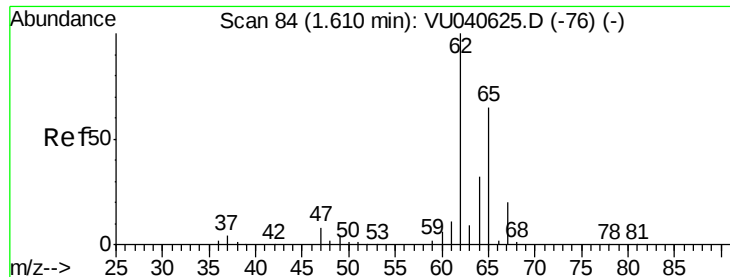
52 30.8 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU040630.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU040630.D (-1) (-)





#5

Vinyl chloride

Concen: 2.246 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Instrument :

MSVOA_U

ClientSampleId :

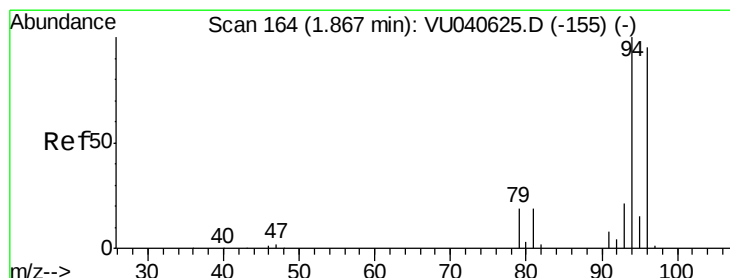
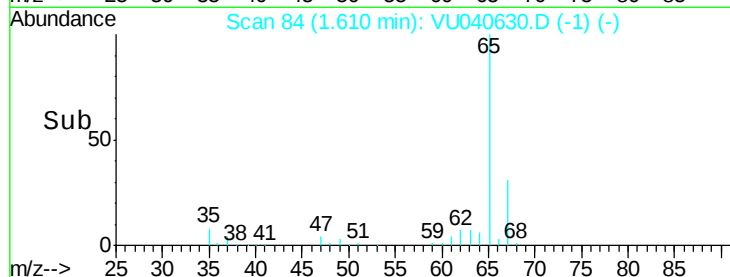
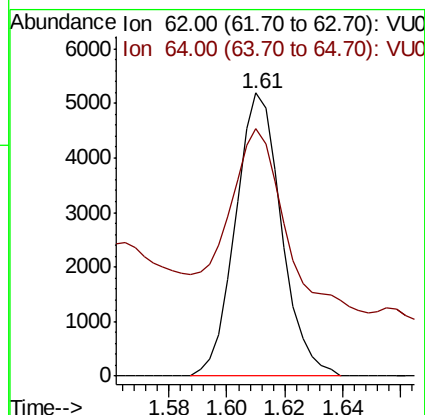
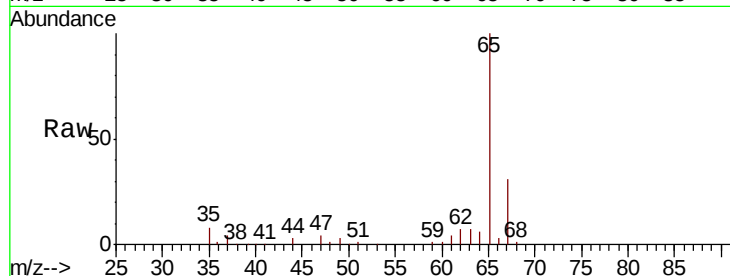
MDL-ME-SOIL-06

Tot Ion: 62 Resp: 5703

Ion Ratio Lower Upper

62 100

64 87.4 23.4 43.6#



#6

Bromomethane

Concen: 1.973 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU040630.D

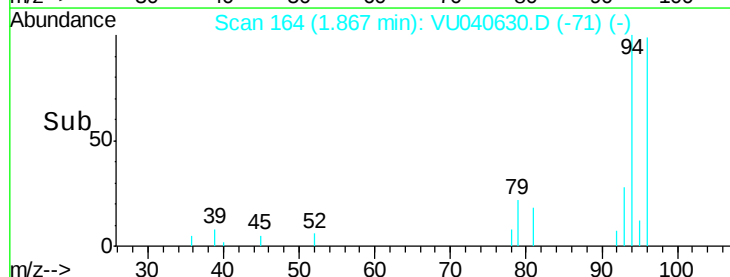
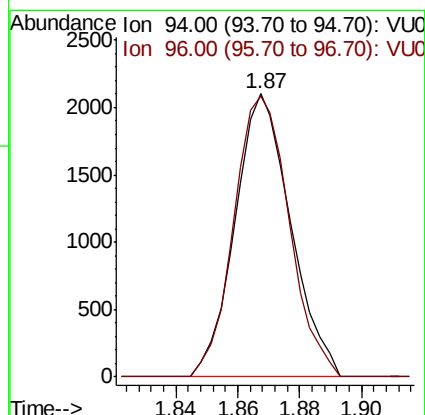
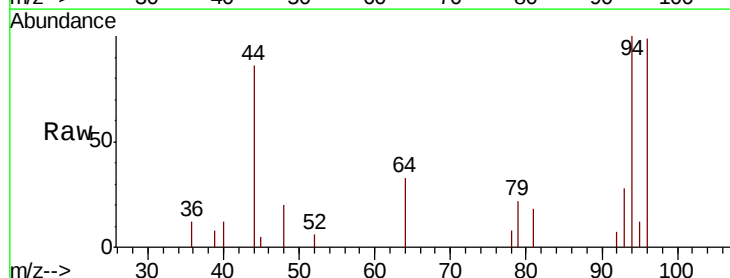
Acq: 10 Oct 2020 12:43

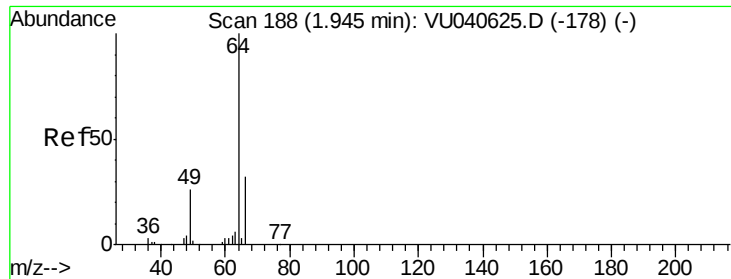
Tgt Ion: 94 Resp: 2630

Ion Ratio Lower Upper

94 100

96 99.1 64.4 119.6





#8

Chloroethane

Concen: 2.212 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Instrument :

MSVOA_U

ClientSampleId :

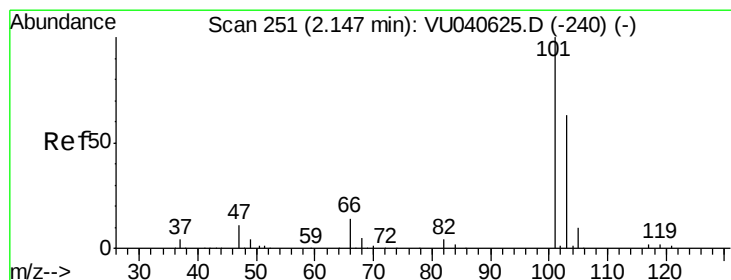
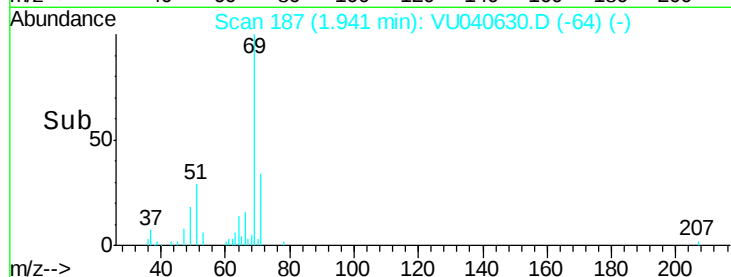
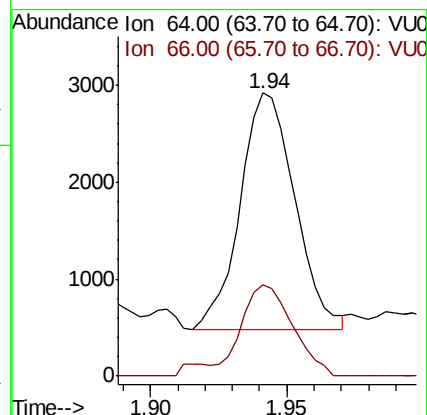
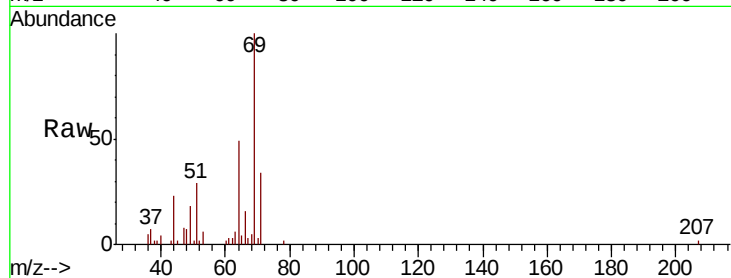
MDL-ME-SOIL-06

Tot Ion: 64 Resp: 3388

Ion Ratio Lower Upper

64 100

66 32.3 22.5 41.9



#9

Trichlorofluoromethane

Concen: 2.502 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU040630.D

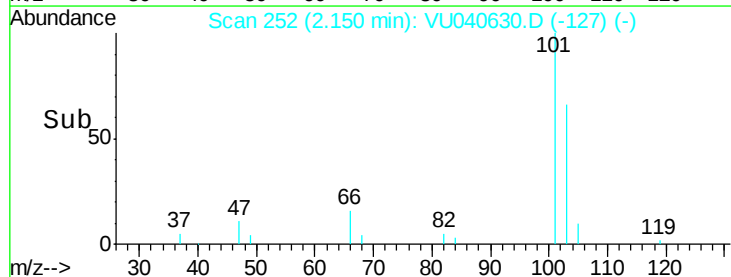
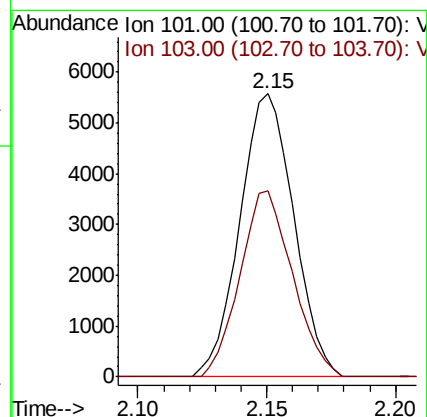
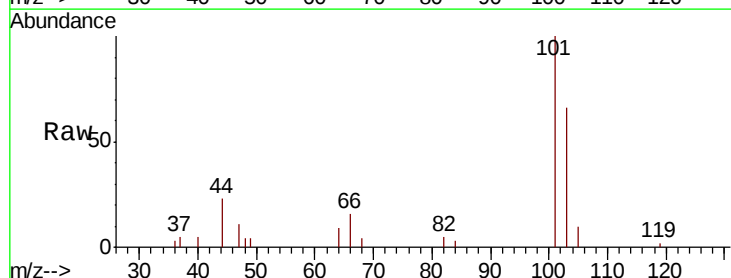
Acq: 10 Oct 2020 12:43

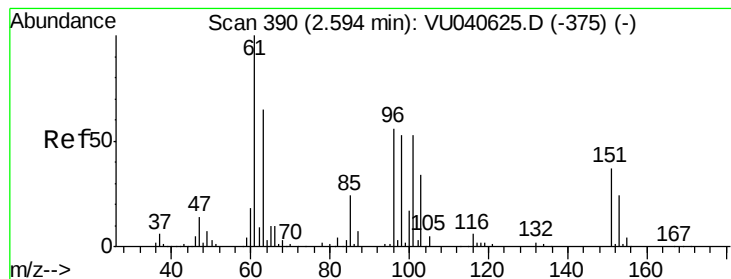
Tgt Ion: 101 Resp: 8149

Ion Ratio Lower Upper

101 100

103 64.1 52.1 78.1





#10

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

Concen: 2.726 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

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MDL-ME-SOIL-06

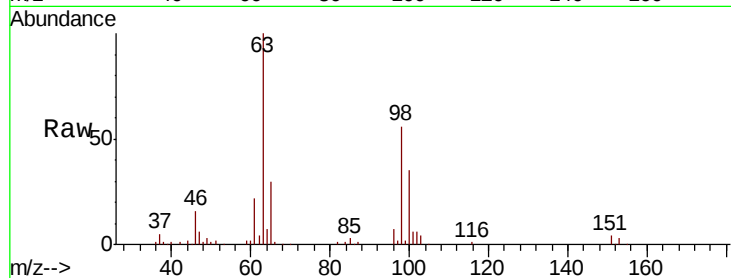
Tot Ion:101 Resp: 5292

Ion Ratio Lower Upper

101 100

85 37.8 35.4 53.2

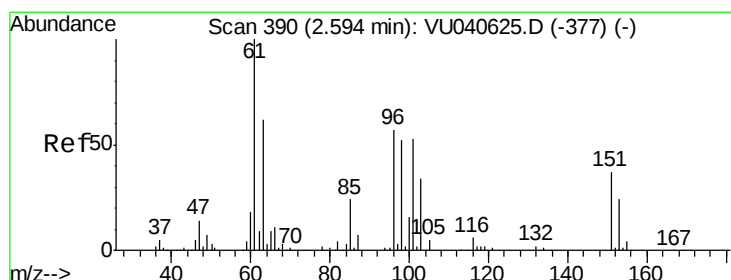
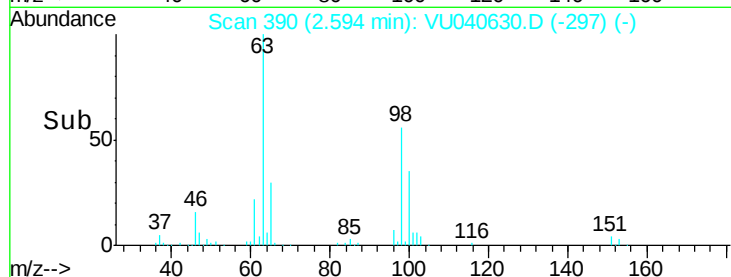
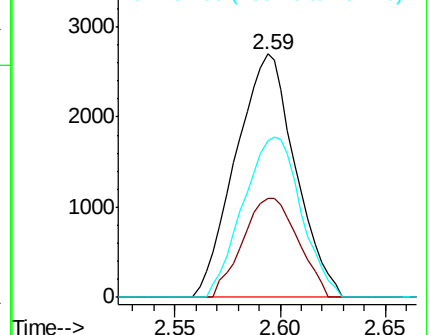
151 63.9 54.8 82.2



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: 2.989 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

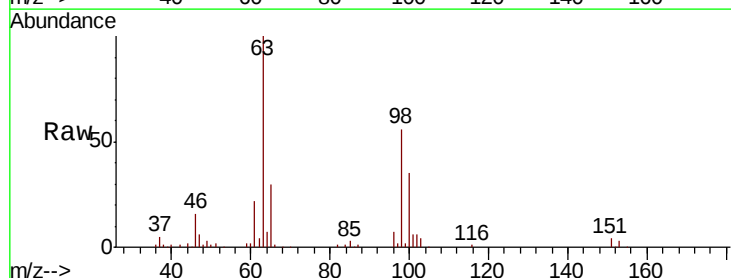
Tgt Ion: 96 Resp: 5365

Ion Ratio Lower Upper

96 100

61 322.8 135.0 250.8#

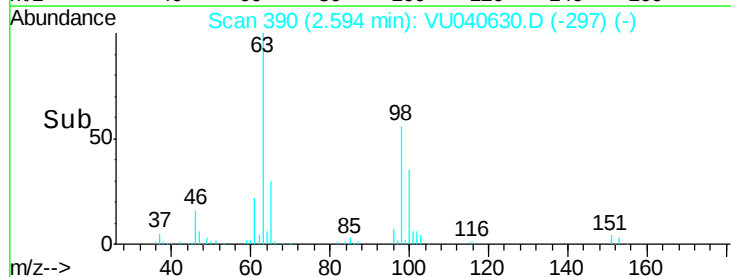
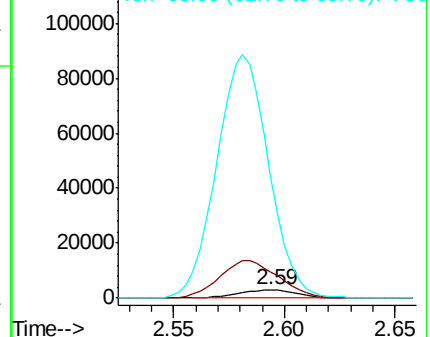
63 1479.5 101.4 188.2#

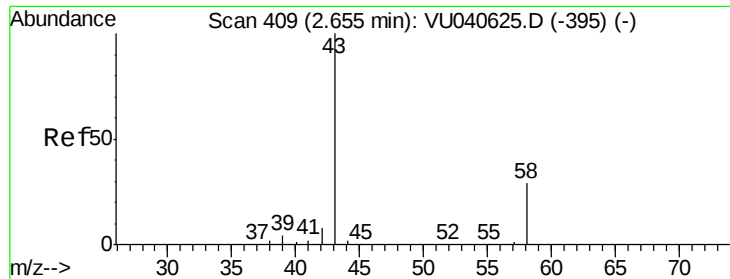


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.312 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

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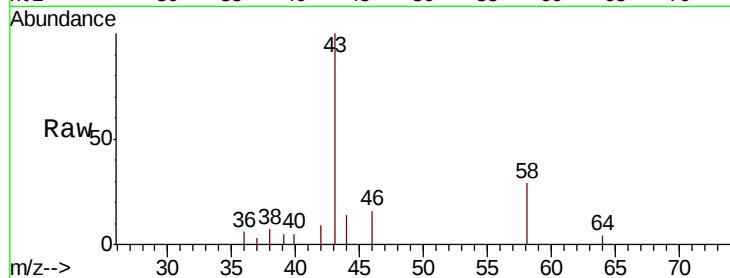
MDL-ME-SOIL-06

Tot Ion: 43 Resp: 8811

Ion Ratio Lower Upper

43 100

58 26.1 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VU040630.D (-316) (-)

Ion 58.00 (57.70 to 58.70): VU040630.D (-316) (-)

2.65

4000

3000

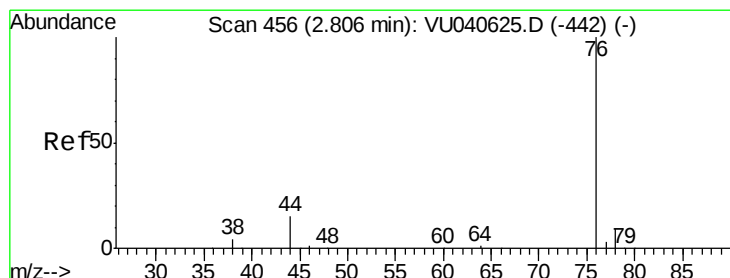
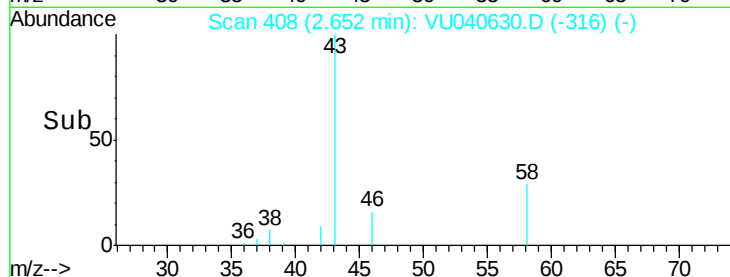
2000

1000

0

Time-->

2.60 2.65 2.70 2.75



#14

Carbon disulfide

Concen: 2.221 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU040630.D

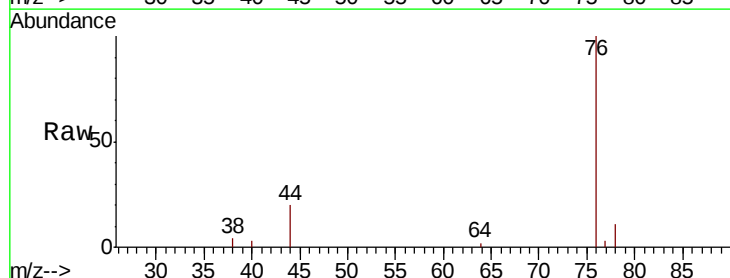
Acq: 10 Oct 2020 12:43

Tgt Ion: 76 Resp: 13689

Ion Ratio Lower Upper

76 100

78 10.6 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU040630.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040630.D (-363) (-)

2.81

8000

6000

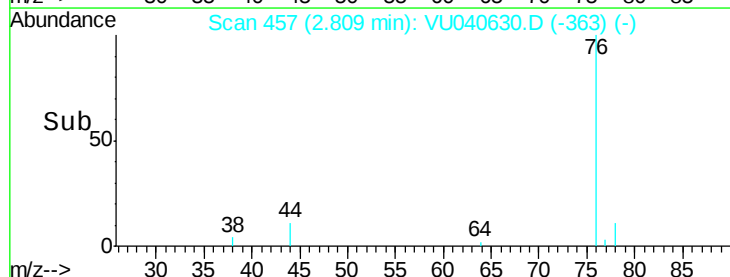
4000

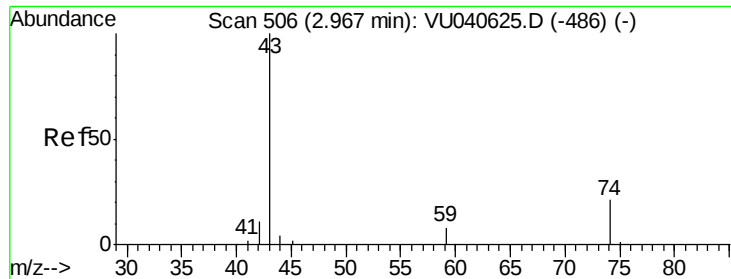
2000

0

Time-->

2.75 2.80 2.85

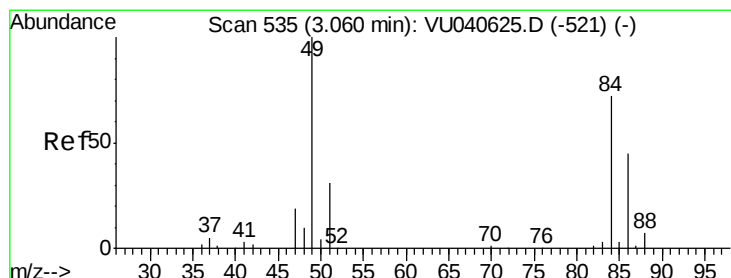
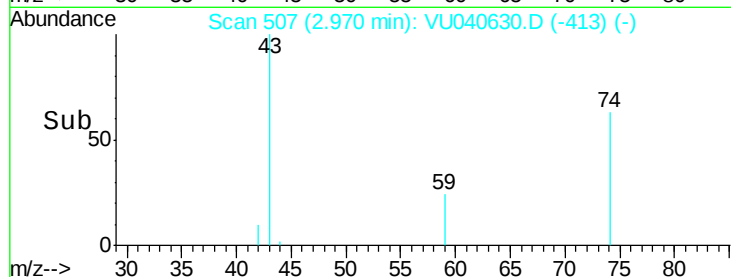
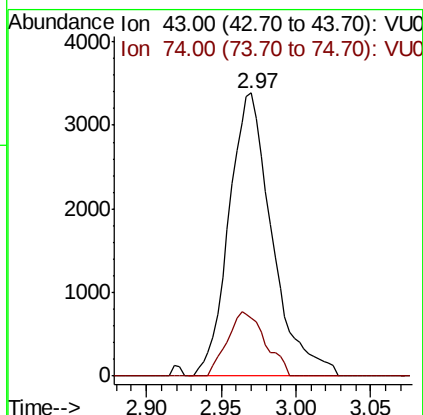
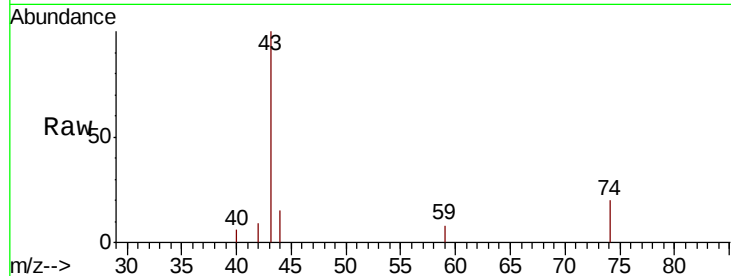




#15
Methvl Acetate
Concen: 2.512 ug/L
RT: 2.97 min Scan# 507
Delta R.T. 0.00 min
Lab File: VU040630.D
Acq: 10 Oct 2020 12:43

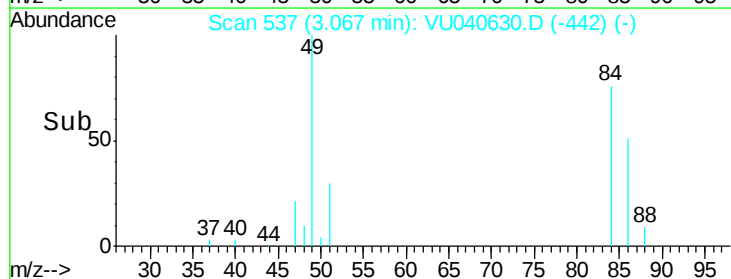
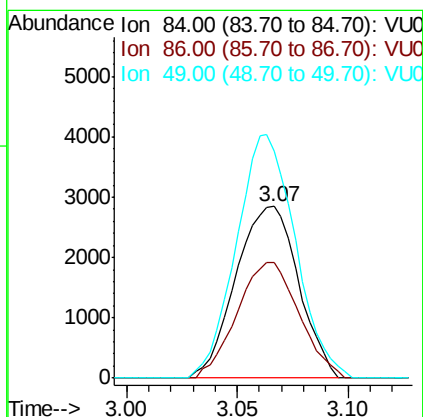
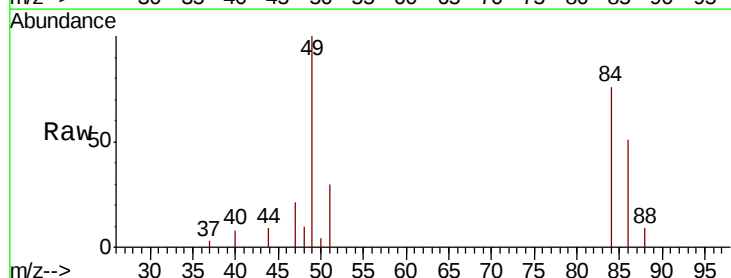
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-06

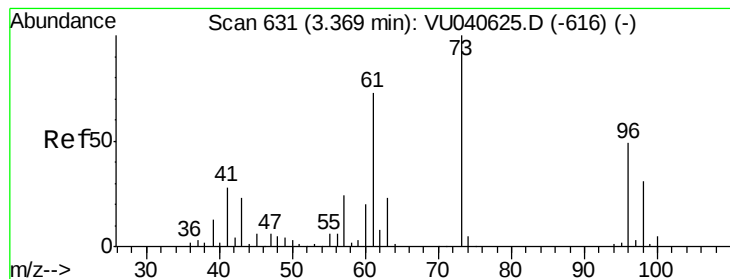
Tot Ion: 43 Resp: 6798
Ion Ratio Lower Upper
43 100
74 20.0 16.4 24.6



#16
Methylene chloride
Concen: 2.629 ug/L
RT: 3.07 min Scan# 537
Delta R.T. 0.01 min
Lab File: VU040630.D
Acq: 10 Oct 2020 12:43

Tgt Ion: 84 Resp: 5596
Ion Ratio Lower Upper
84 100
86 67.4 45.4 84.4
49 132.0 102.9 191.1





#17

trans-1,2-Dichloroethene

Concen: 2.295 ug/L

RT: 3.37 min Scan# 631

Delta R.T. -0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-06

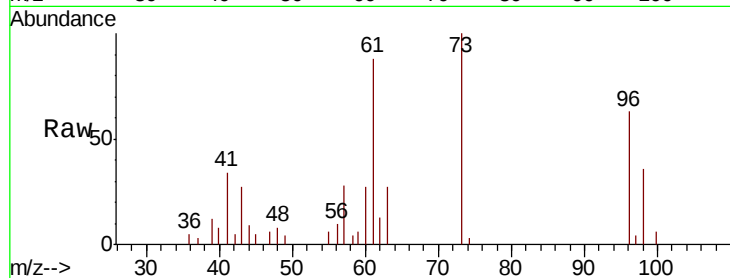
Tot Ion: 96 Resp: 4388

Ion Ratio Lower Upper

96 100

61 138.6 109.6 203.6

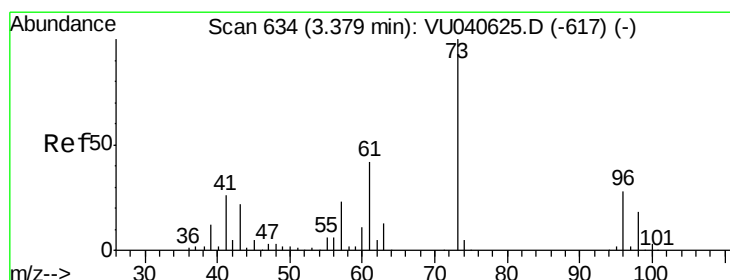
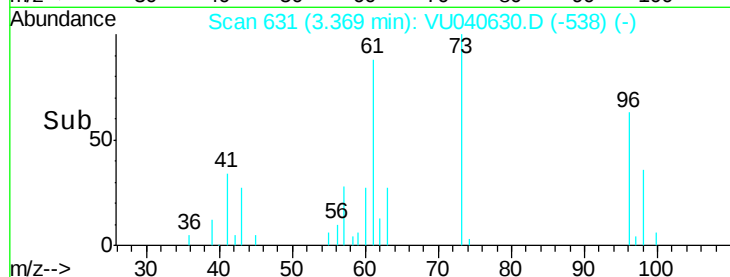
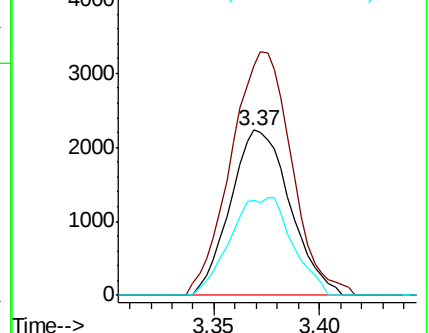
98 57.3 43.3 80.3



Abundance Ion 96.00 (95.70 to 96.70): VU040630.D (-538) (-)

Ion 61.00 (60.70 to 61.70): VU040630.D (-538) (-)

Ion 98.00 (97.70 to 98.70): VU040630.D (-538) (-)



#18

Methyl tert-butyl Ether

Concen: 2.130 ug/L

RT: 3.38 min Scan# 636

Delta R.T. 0.01 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

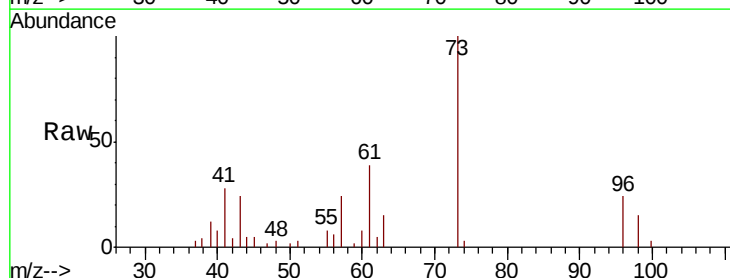
Tgt Ion: 73 Resp: 12806

Ion Ratio Lower Upper

73 100

43 23.8 18.2 27.2

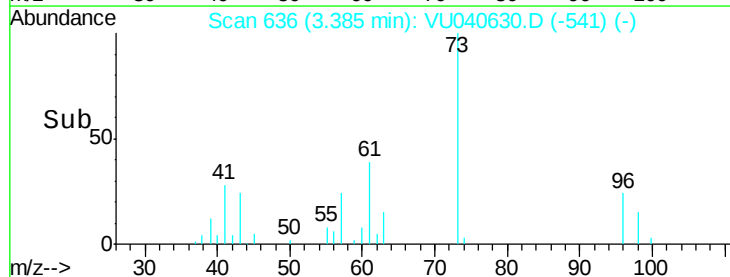
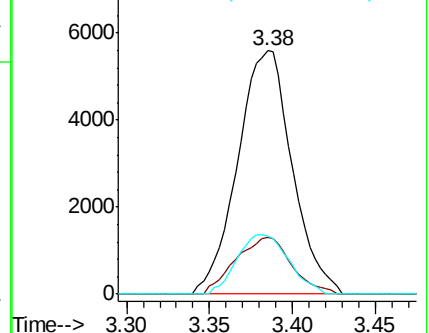
57 23.1 18.5 27.7

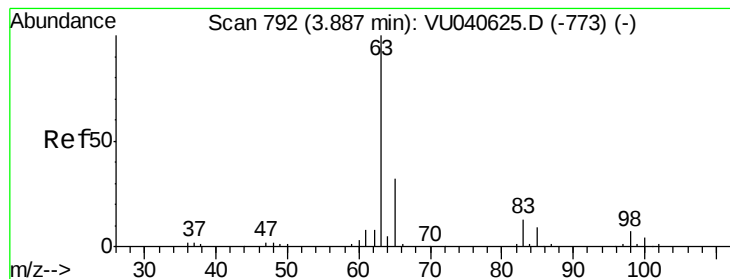


Abundance Ion 73.00 (72.70 to 73.70): VU040630.D (-541) (-)

Ion 43.00 (42.70 to 43.70): VU040630.D (-541) (-)

Ion 57.00 (56.70 to 57.70): VU040630.D (-541) (-)





#19

1,1-Dichloroethane

Concen: 2.271 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.01 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-06

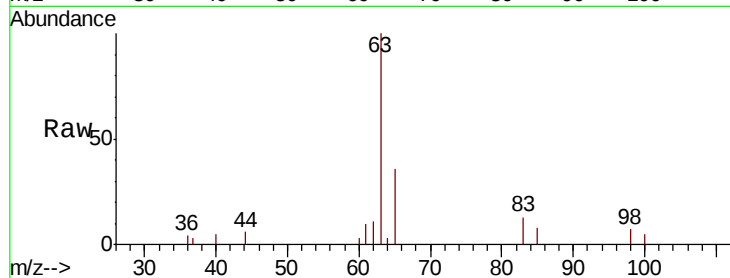
Tot Ion: 63 Resp: 8660

Ion Ratio Lower Upper

63 100

65 35.8 22.6 42.0

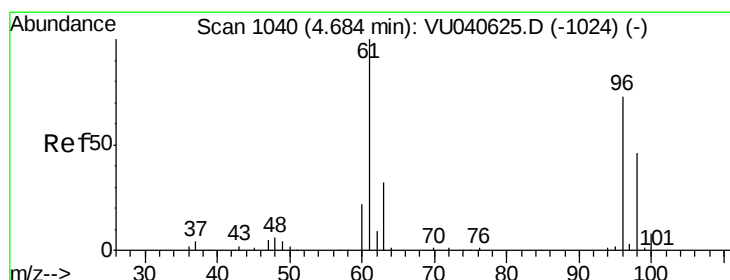
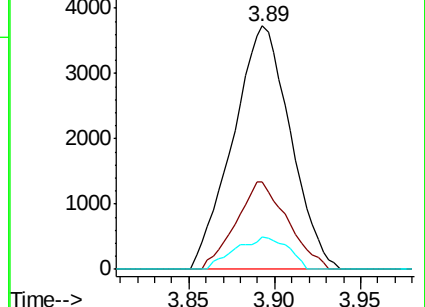
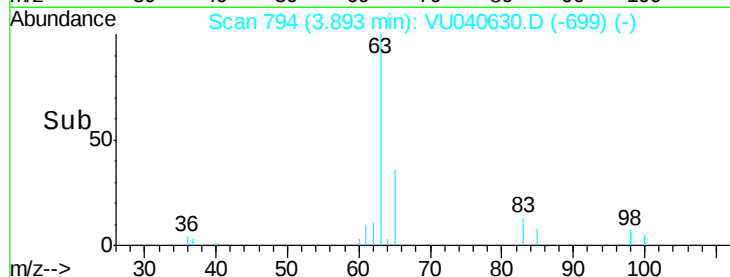
83 13.1 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU040630.D (-699) (-)

Ion 65.00 (64.70 to 65.70): VU040630.D (-699) (-)

Ion 83.00 (82.70 to 83.70): VU040630.D (-699) (-)



#20

cis-1,2-Dichloroethene

Concen: 1.879 ug/L

RT: 4.69 min Scan# 1042

Delta R.T. 0.01 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

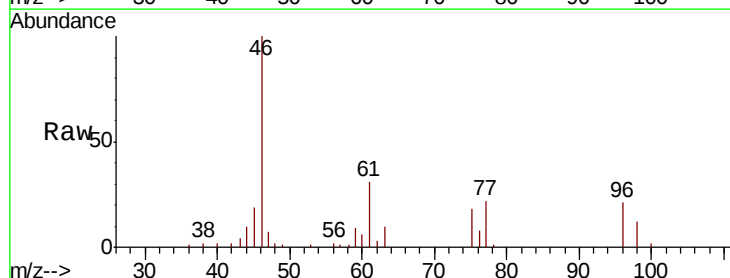
Tgt Ion: 96 Resp: 3872

Ion Ratio Lower Upper

96 100

61 147.9 95.7 177.7

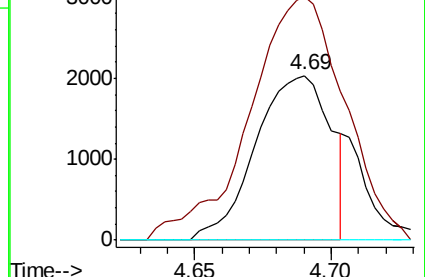
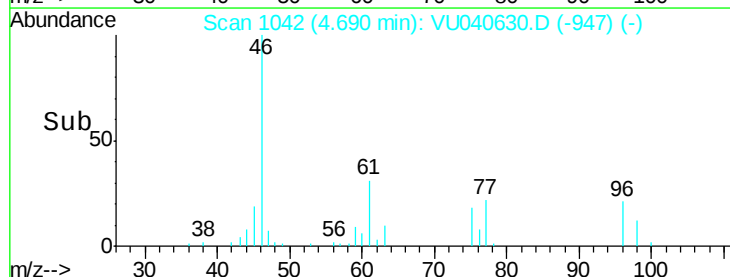
68 0.0 0.0 0.0

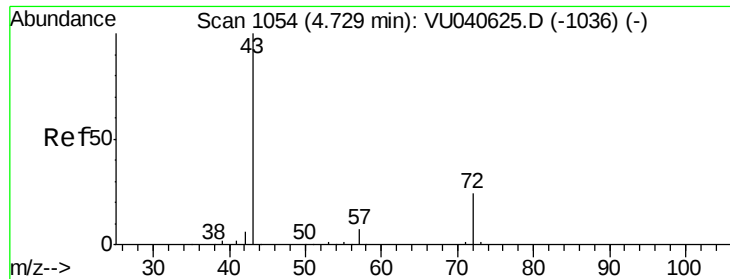


Abundance Ion 96.00 (95.70 to 96.70): VU040630.D (-947) (-)

Ion 61.00 (60.70 to 61.70): VU040630.D (-947) (-)

Ion 68.00 (67.70 to 68.70): VU040630.D (-947) (-)





#22

2-Butanone

Concen: 4.768 ug/L

RT: 4.73 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Instrument :

MSVOA_U

ClientSampleId :

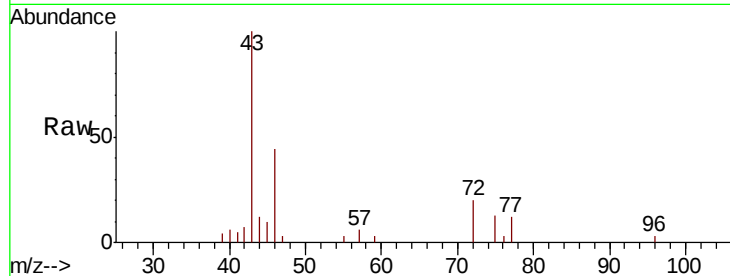
MDL-ME-SOIL-06

Tot Ion: 43 Resp: 10090

Ion Ratio Lower Upper

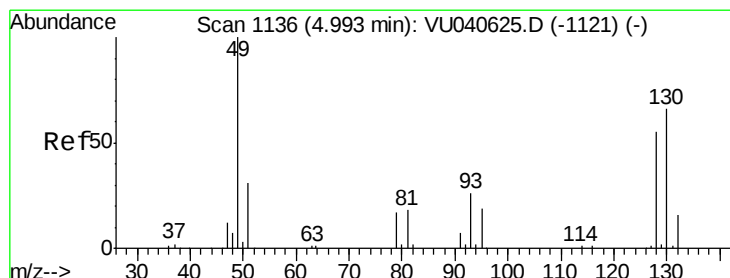
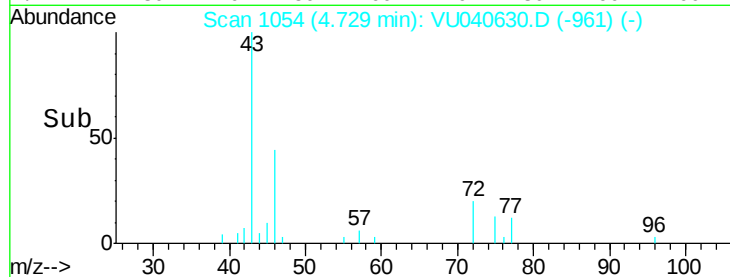
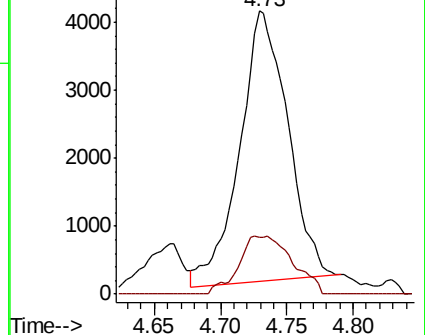
43 100

72 6.3 11.9 35.9#



Abundance Ion 43.00 (42.70 to 43.70): VU040630.D (-961) (-)

Ion 72.00 (71.70 to 72.70): VU040630.D (-961) (-)



#23

Bromochloromethane

Concen: 2.340 ug/L

RT: 5.00 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Tgt Ion:128 Resp: 2512

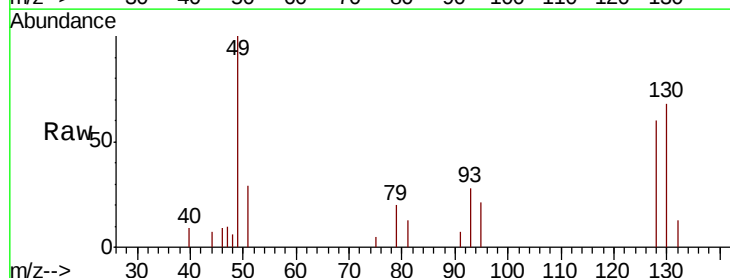
Ion Ratio Lower Upper

128 100

49 165.9 133.1 247.3

130 112.2 90.5 168.1

51 48.6 48.4 72.6

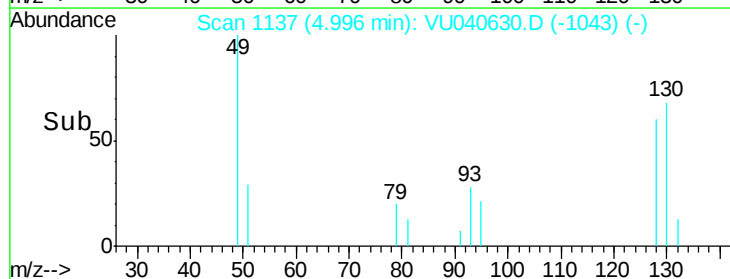
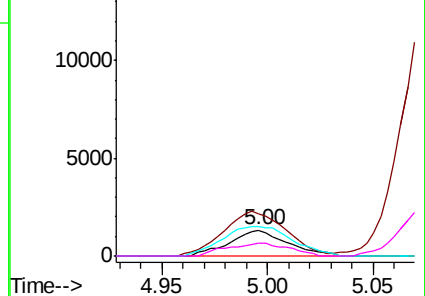


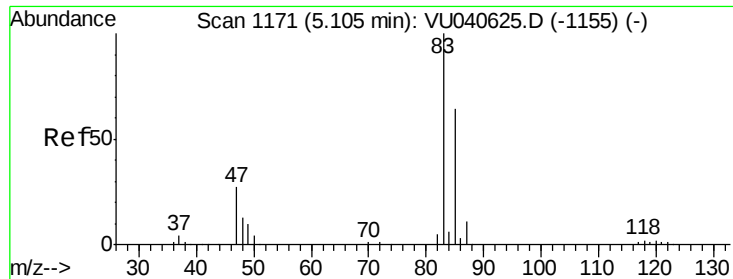
Abundance Ion 128.00 (127.70 to 128.70): VU040630.D (-1043) (-)

Ion 49.00 (48.70 to 49.70): VU040630.D (-1043) (-)

Ion 130.00 (129.70 to 130.70): VU040630.D (-1043) (-)

Ion 51.00 (50.70 to 51.70): VU040630.D (-1043) (-)

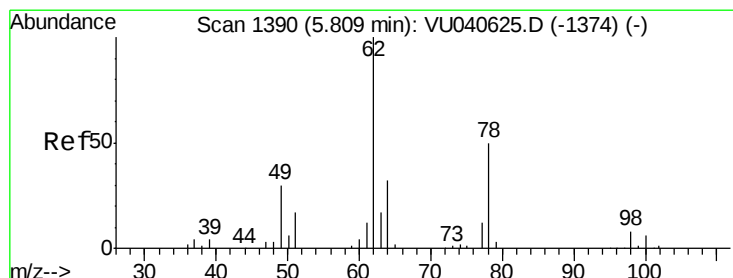
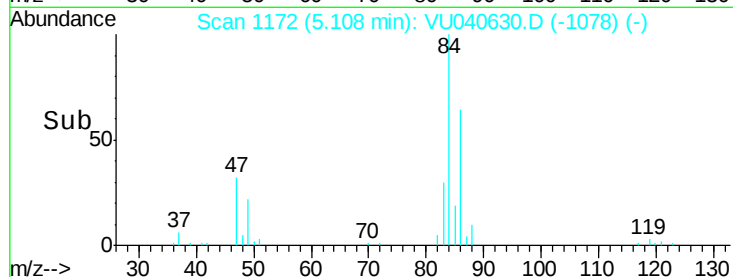
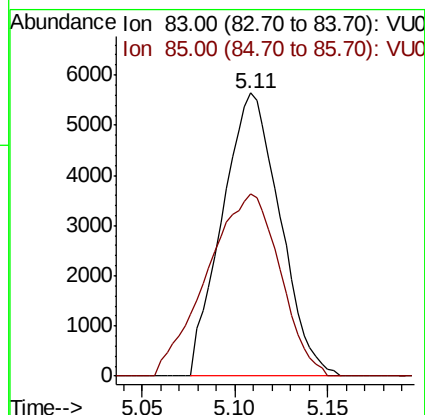
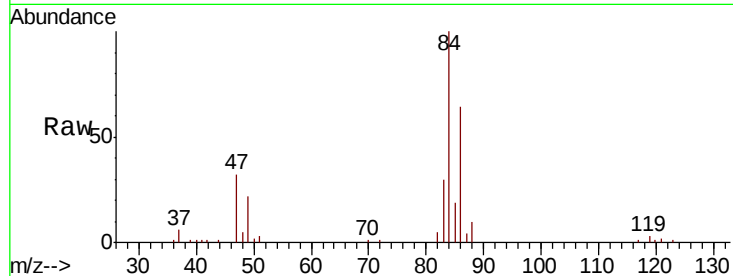




#25
Chloroform
Concen: 3.142 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040630.D
Acq: 10 Oct 2020 12:43

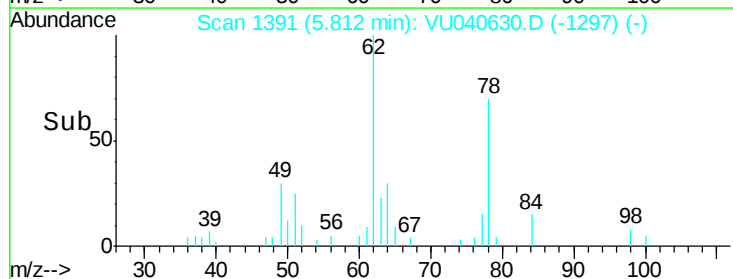
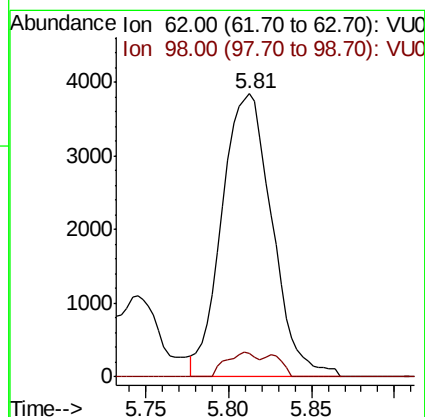
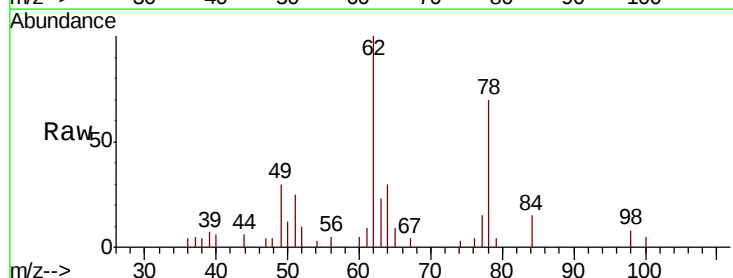
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-06

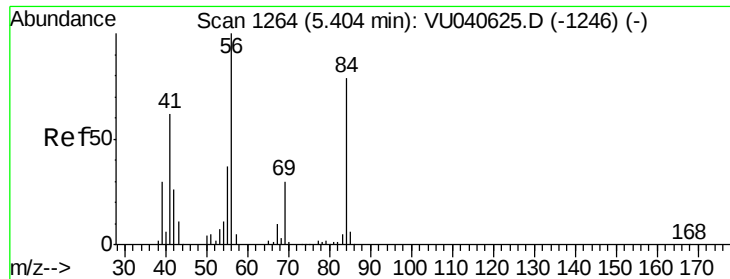
Tot Ion: 83 Resp: 12215
Ion Ratio Lower Upper
83 100
85 64.2 45.6 84.8



#27
1,2-Dichloroethane
Concen: 2.525 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU040630.D
Acq: 10 Oct 2020 12:43

Tgt Ion: 62 Resp: 8101
Ion Ratio Lower Upper
62 100
98 8.2 7.1 10.7

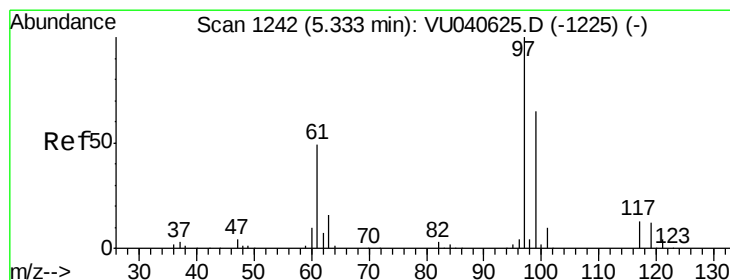
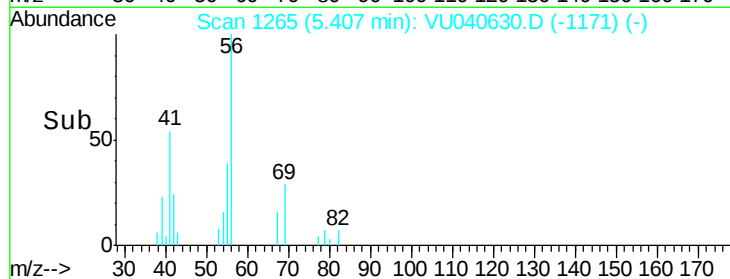
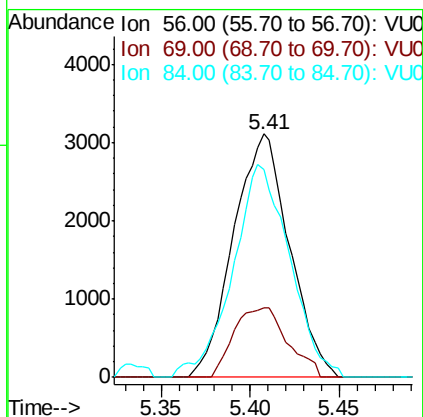
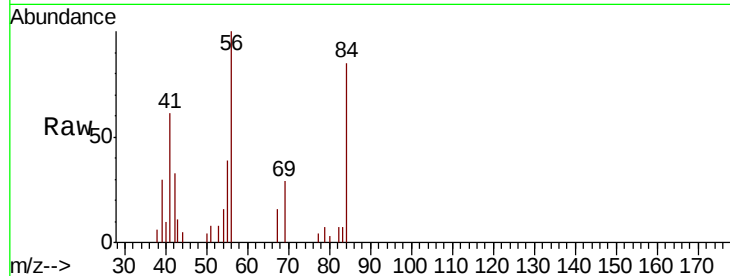




#29
Cyclohexane
Concen: 2.017 ug/L
RT: 5.41 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VU040630.D
Acq: 10 Oct 2020 12:43

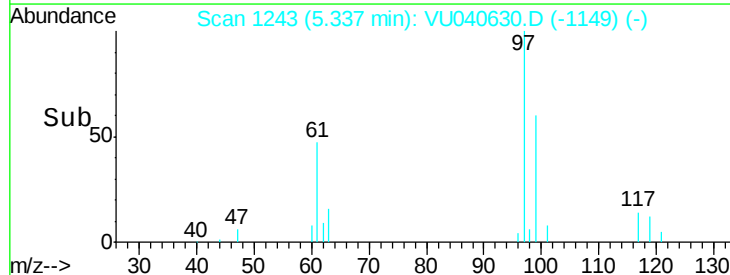
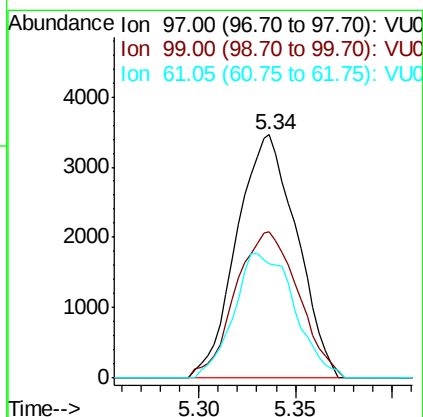
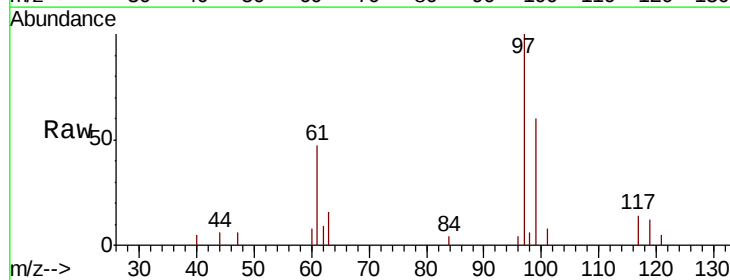
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-06

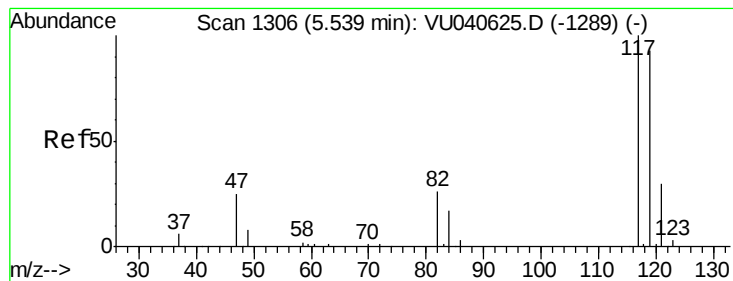
Tot Ion: 56 Resp: 6797
Ion Ratio Lower Upper
56 100
69 27.6 22.6 34.0
84 87.1 63.1 94.7



#30
1,1,1-Trichloroethane
Concen: 2.308 ug/L
RT: 5.34 min Scan# 1243
Delta R.T. 0.00 min
Lab File: VU040630.D
Acq: 10 Oct 2020 12:43

Tgt Ion: 97 Resp: 7462
Ion Ratio Lower Upper
97 100
99 63.2 51.0 76.6
61 35.1 39.4 59.2#





#31

Carbon tetrachloride

Concen: 2.265 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Instrument :

MSVOA_U

ClientSampleId :

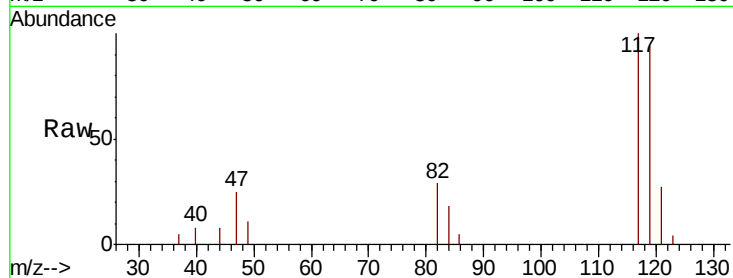
MDL-ME-SOIL-06

Tot Ion:117 Resp: 6332

Ion Ratio Lower Upper

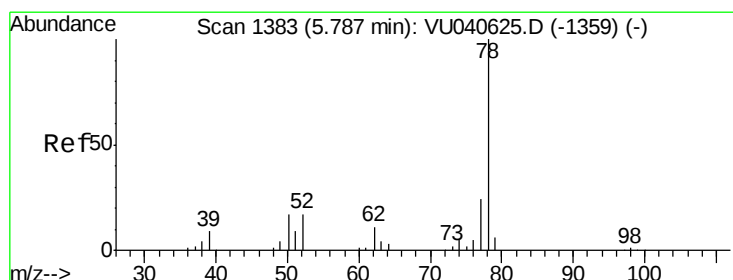
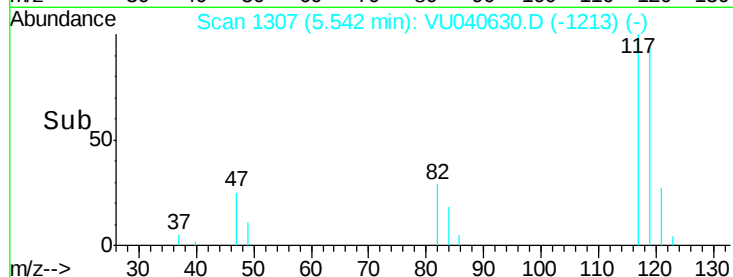
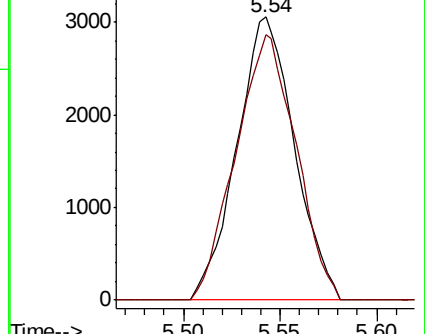
117 100

119 98.0 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: 2.418 ug/L

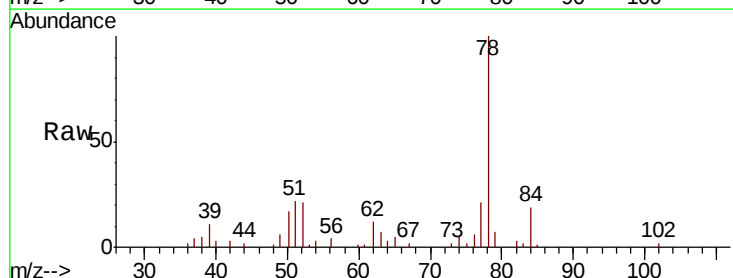
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

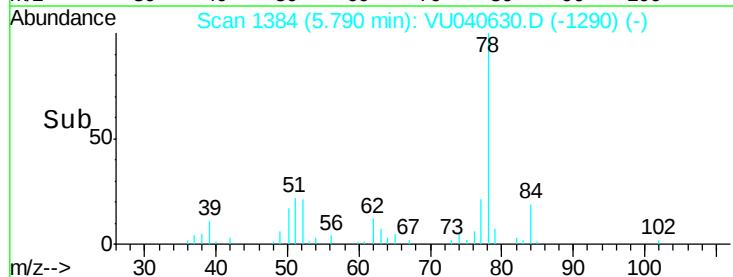
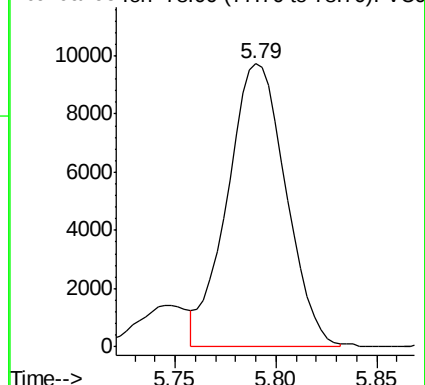
Lab File: VU040630.D

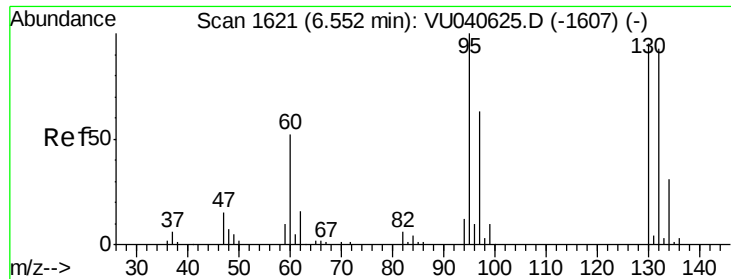
Acq: 10 Oct 2020 12:43

Tgt Ion: 78 Resp: 19675



Abundance Ion 78.00 (77.70 to 78.70): VU0

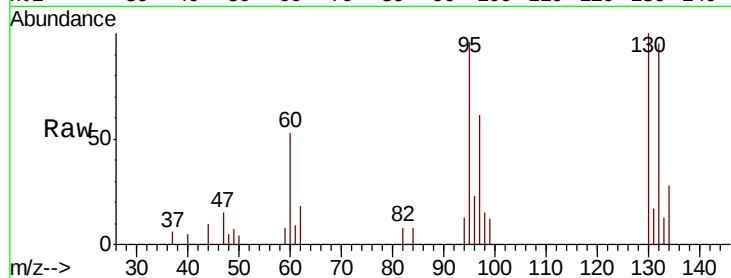




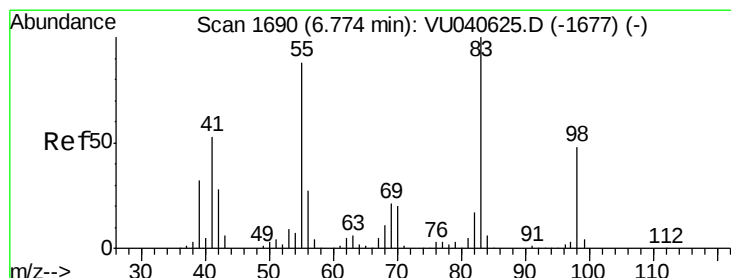
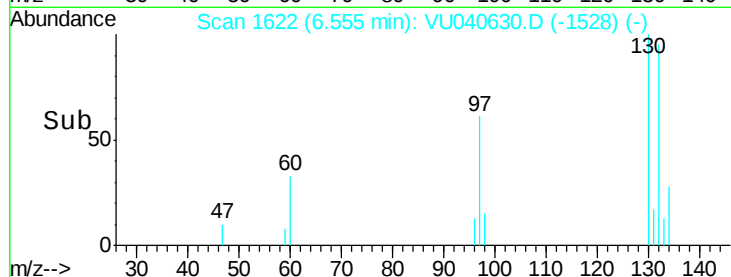
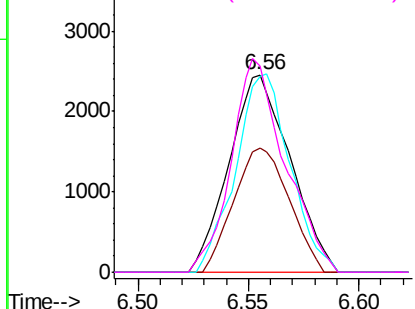
#34
 Trichloroethene
 Concen: 2.254 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-06

Tot Ion: 95 Resp: 4725
 Ion Ratio Lower Upper
 95 100
 97 63.1 44.3 82.3
 132 99.2 64.2 119.2
 130 104.2 67.3 125.1

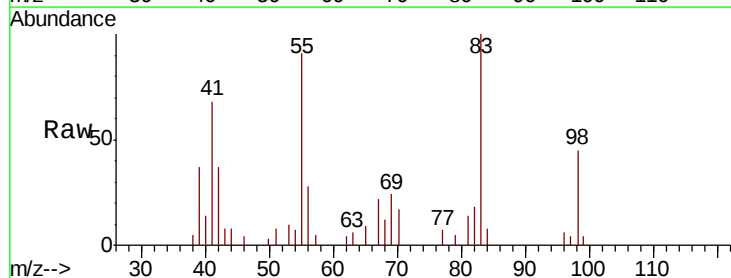


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

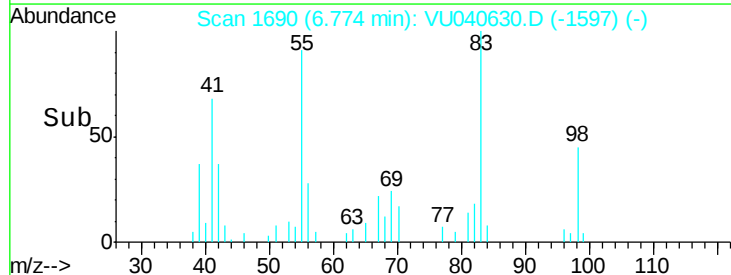
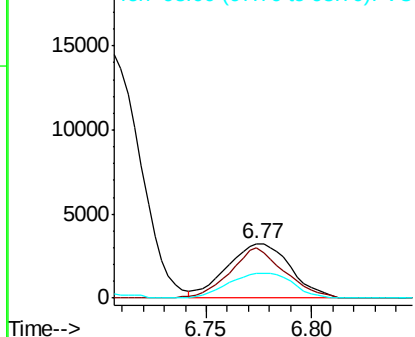


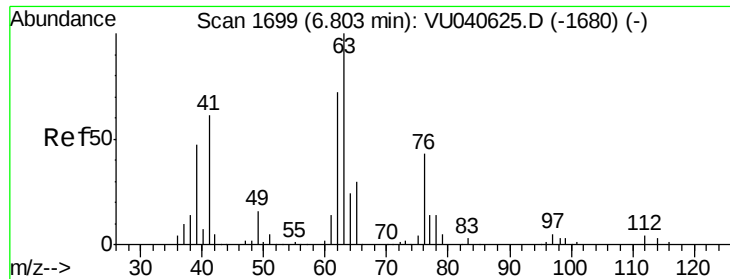
#35
 Methylcyclohexane
 Concen: 2.138 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. -0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

Tgt Ion: 83 Resp: 6814
 Ion Ratio Lower Upper
 83 100
 55 78.6 69.8 104.8
 98 45.8 39.1 58.7



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

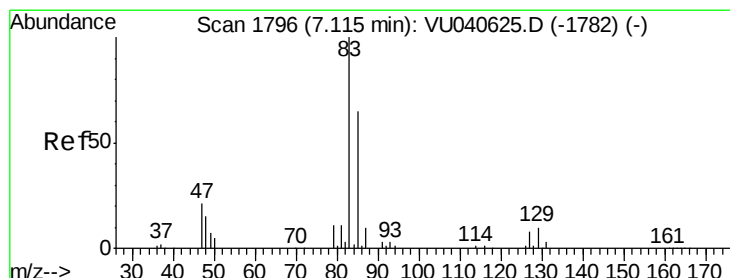
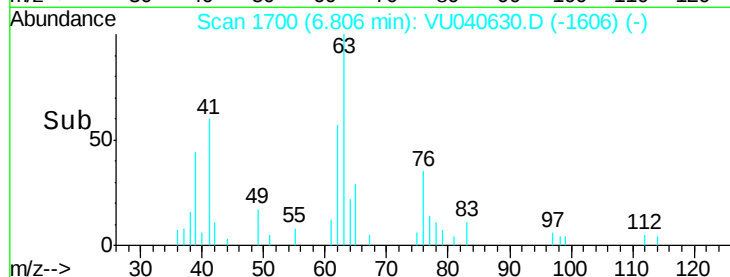
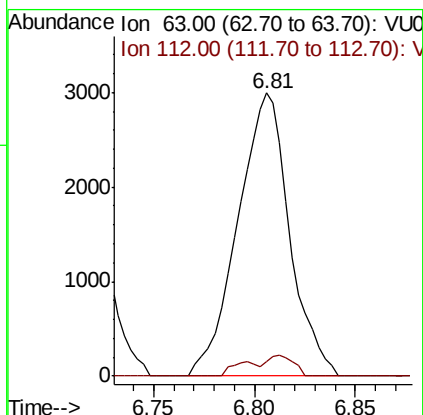
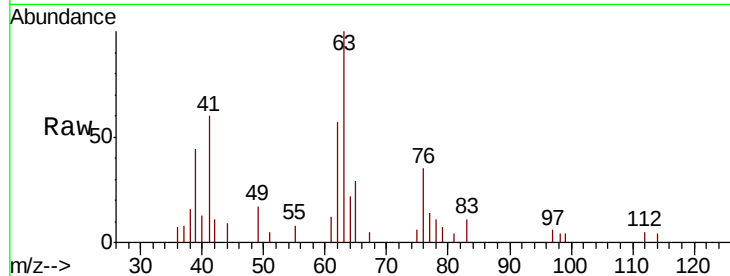




#37
 1,2-Dichloropropane
 Concen: 2.398 ug/L
 RT: 6.81 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

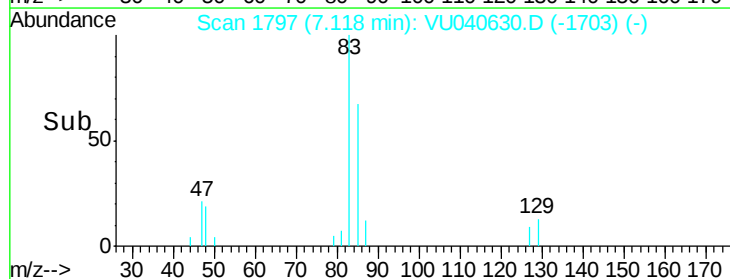
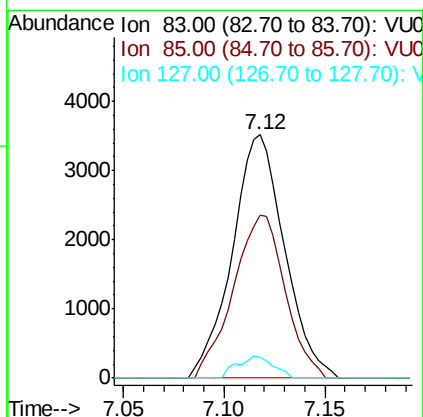
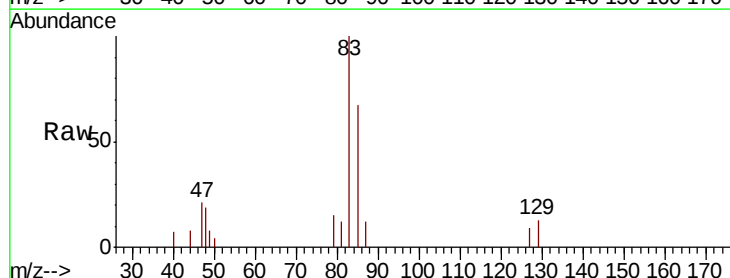
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-06

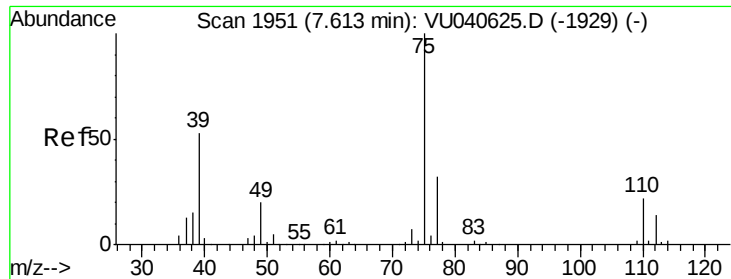
Tot Ion: 63 Resp: 5358
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.5 5.3



#38
 Bromodichloromethane
 Concen: 2.196 ug/L
 RT: 7.12 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

Tgt Ion: 83 Resp: 6374
 Ion Ratio Lower Upper
 83 100
 85 66.9 45.2 84.0
 127 8.8 6.7 10.1

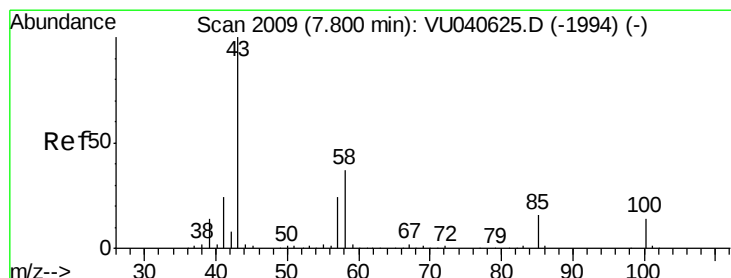
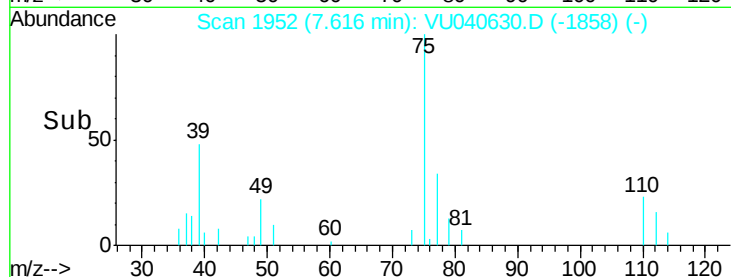
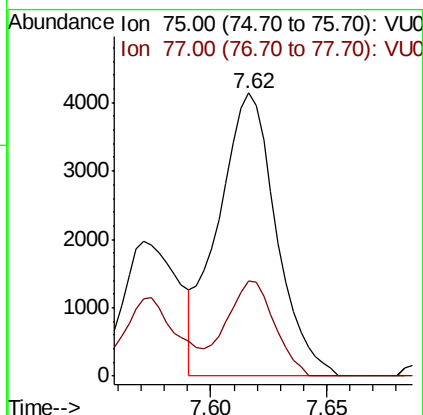
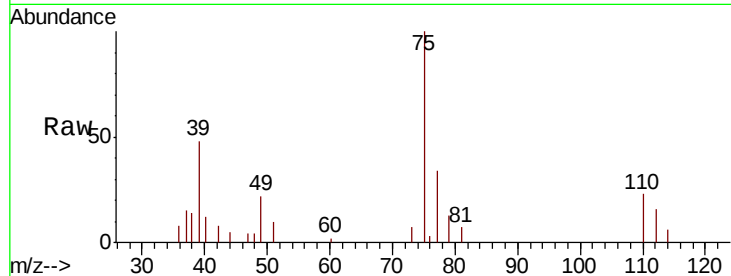




#39
 cis-1,3-Dichloropropene
 Concen: 2.201 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

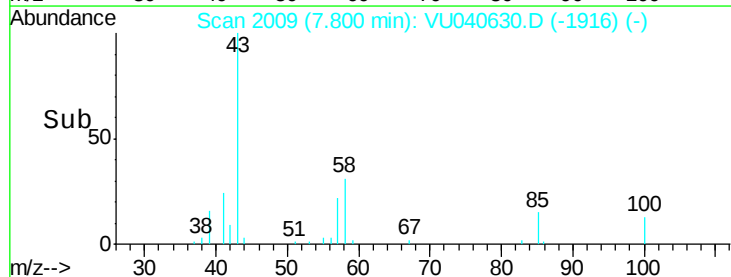
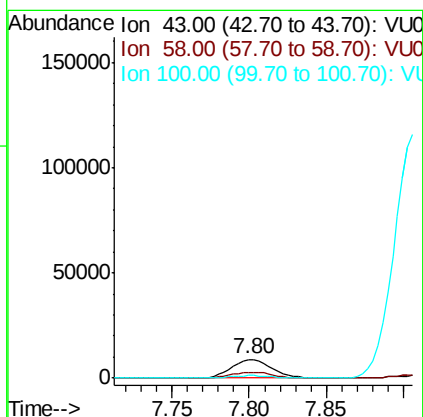
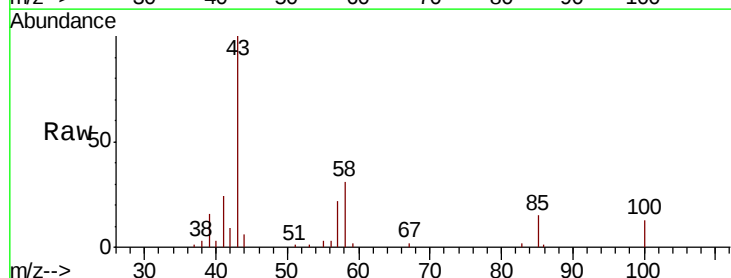
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-06

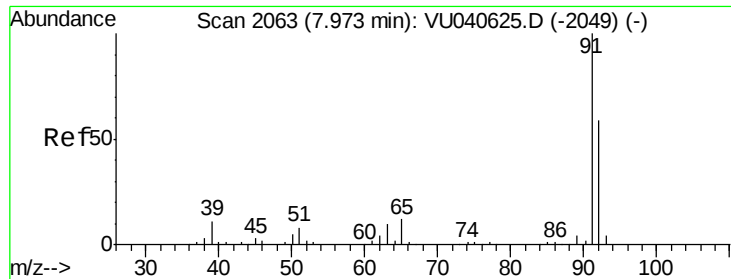
Tot Ion: 75 Resp: 7207
 Ion Ratio Lower Upper
 75 100
 77 33.7 21.4 39.8



#40
 4-Methyl-2-pentanone
 Concen: 4.561 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. -0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

Tgt Ion: 43 Resp: 16079
 Ion Ratio Lower Upper
 43 100
 58 34.0 29.7 44.5
 100 12.6 10.5 15.7





#42

Toluene

Concen: 2.268 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Instrument :

MSVOA_U

ClientSampleId :

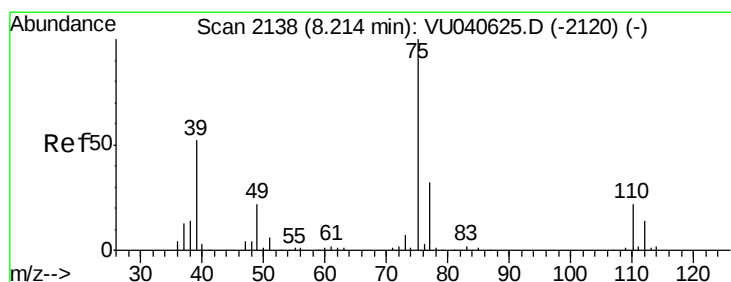
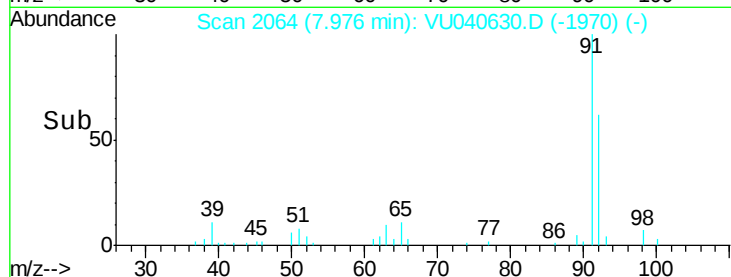
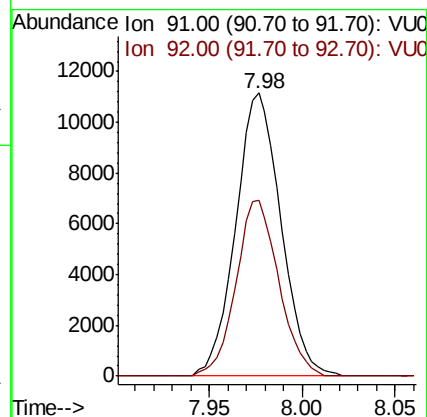
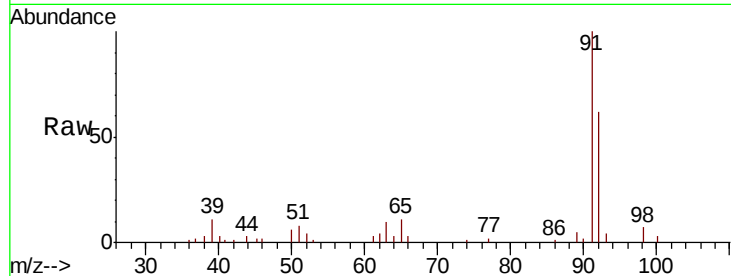
MDL-ME-SOIL-06

Tot Ion: 91 Resp: 18843

Ion Ratio Lower Upper

91 100

92 62.0 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 2.047 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU040630.D

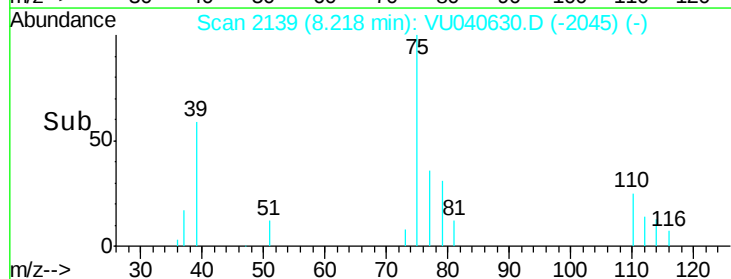
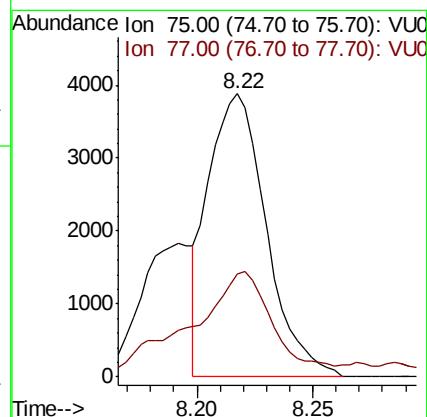
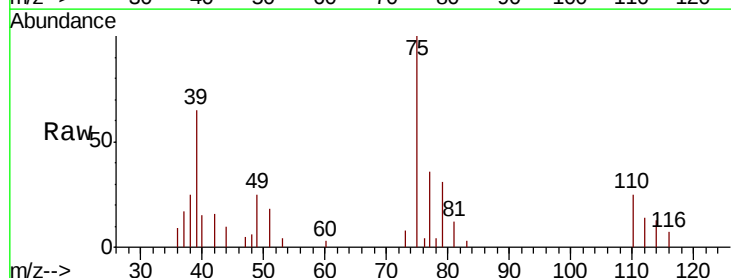
Acq: 10 Oct 2020 12:43

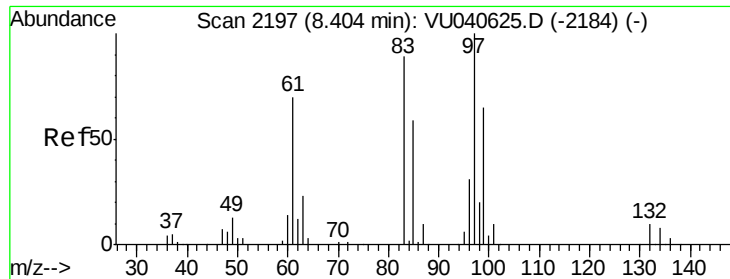
Tgt Ion: 75 Resp: 6748

Ion Ratio Lower Upper

75 100

77 36.2 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 2.512 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-06

Tot Ion: 97 Resp: 5028

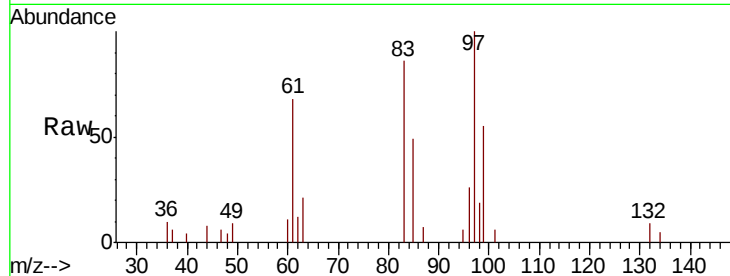
Ion Ratio Lower Upper

97 100

99 55.0 42.7 79.3

83 85.6 61.0 113.4

85 49.4 39.8 73.8

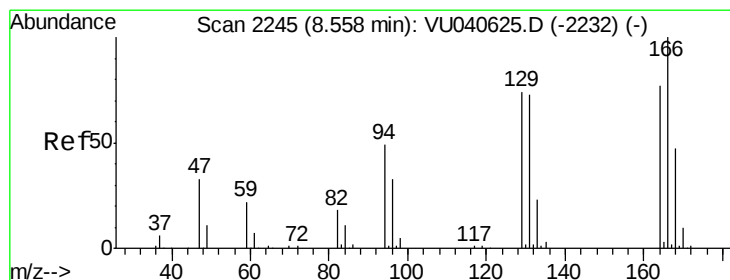
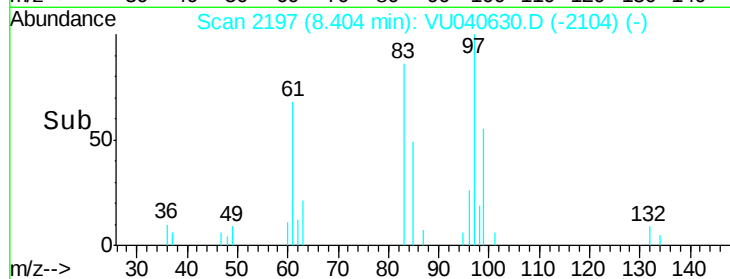
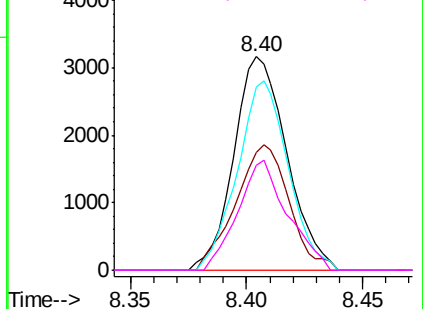


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 2.442 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Tgt Ion: 164 Resp: 3698

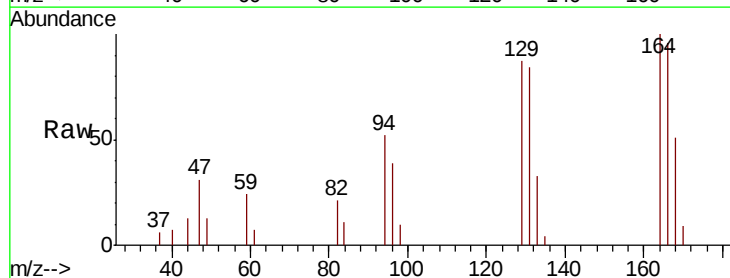
Ion Ratio Lower Upper

164 100

129 87.0 67.4 125.2

131 84.4 63.8 118.6

166 95.8 88.7 164.7

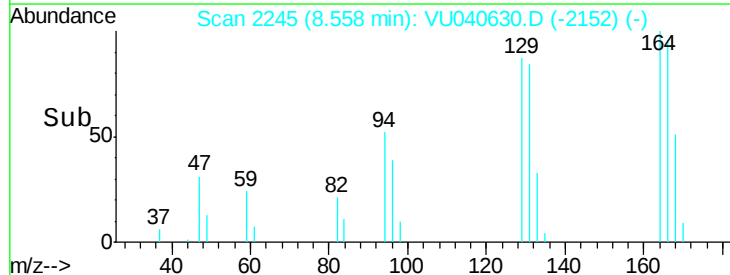
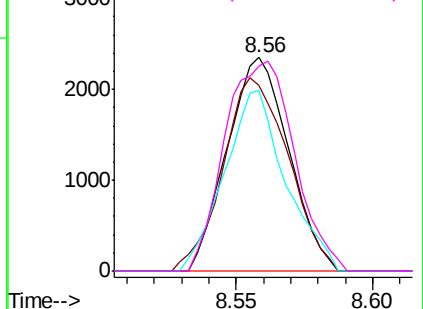


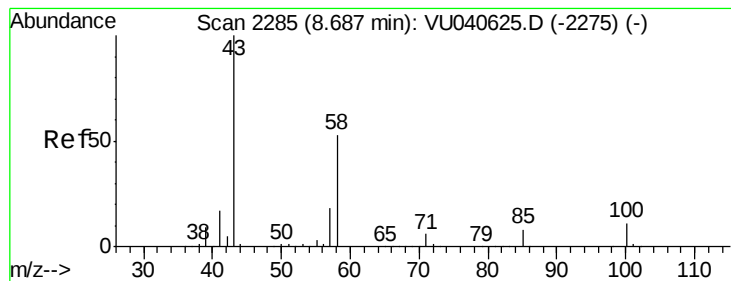
Abundance Ion 164.00 (163.70 to 164.70): V

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: 5.709 ug/L

RT: 8.69 min Scan# 2286

Delta R.T. 0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-06

Tot Ion: 43 Resp: 16359

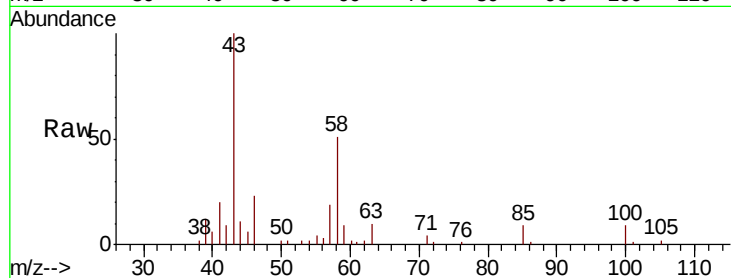
Ion Ratio Lower Upper

43 100

58 54.3 40.6 60.8

57 20.1 14.3 21.5

100 9.5 8.5 12.7

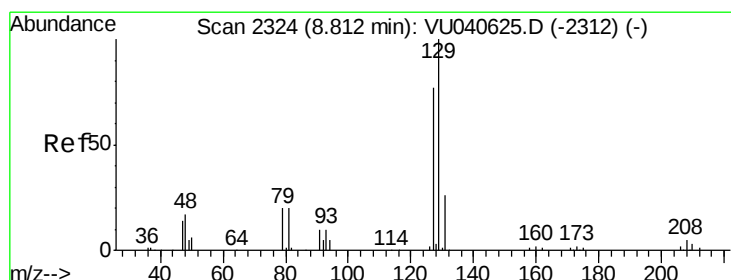
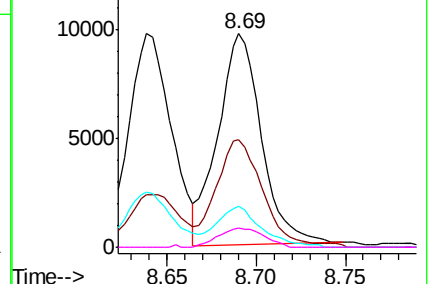
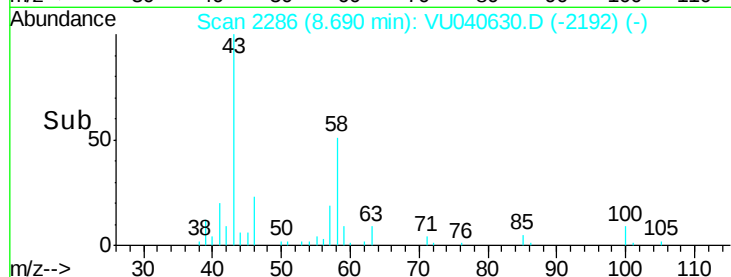


Abundance Ion 43.00 (42.70 to 43.70): VU040630.D (-2192) (-)

Ion 58.00 (57.70 to 58.70): VU040630.D (-2192) (-)

Ion 57.00 (56.70 to 57.70): VU040630.D (-2192) (-)

Ion 100.00 (99.70 to 100.70): VU040630.D (-2192) (-)



#49

Dibromochloromethane

Concen: 2.243 ug/L

RT: 8.82 min Scan# 2325

Delta R.T. 0.00 min

Lab File: VU040630.D

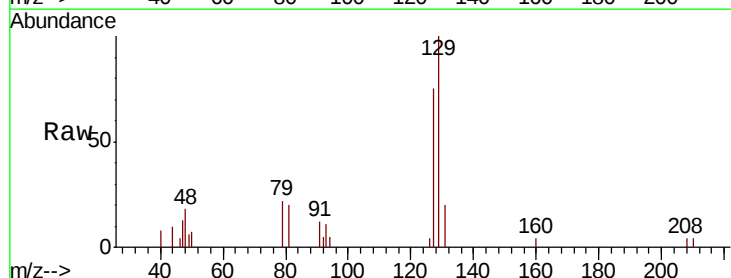
Acq: 10 Oct 2020 12:43

Tgt Ion: 129 Resp: 4902

Ion Ratio Lower Upper

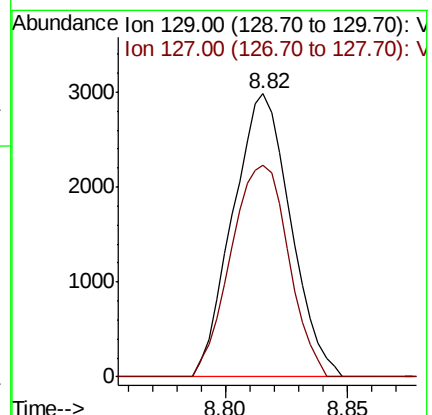
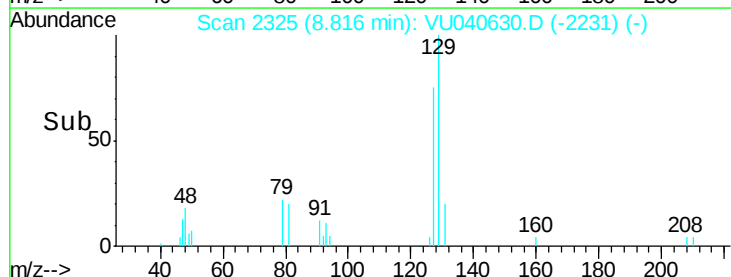
129 100

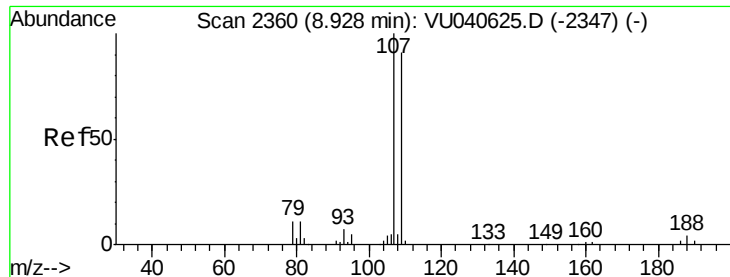
127 74.8 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): VU040630.D (-2231) (-)

Ion 127.00 (126.70 to 127.70): VU040630.D (-2231) (-)

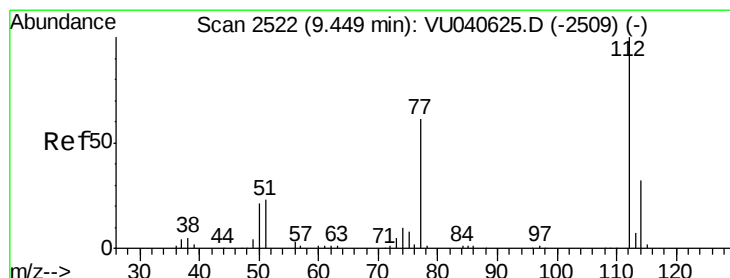
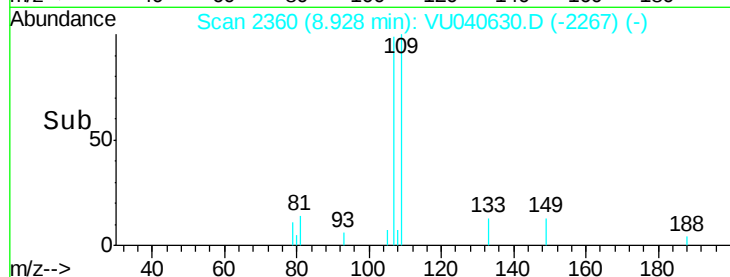
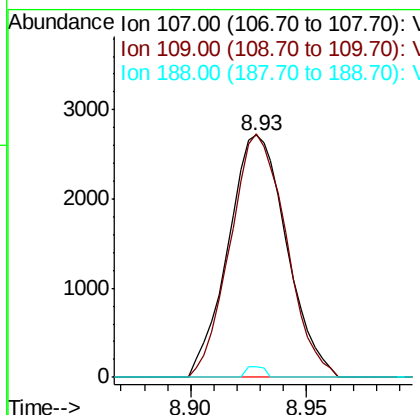
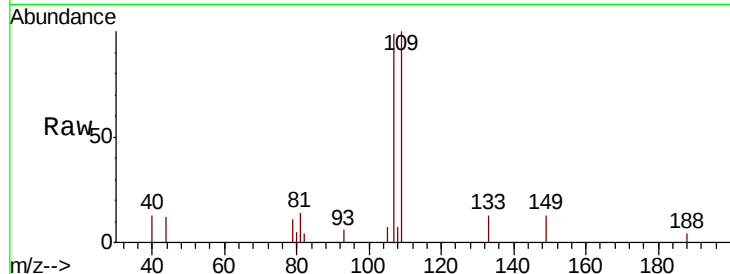




#50
 1,2-Dibromoethane
 Concen: 2.241 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. -0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

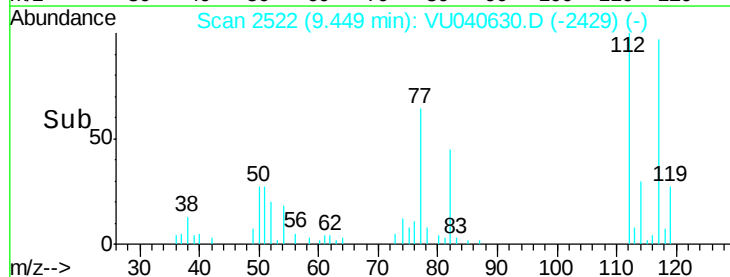
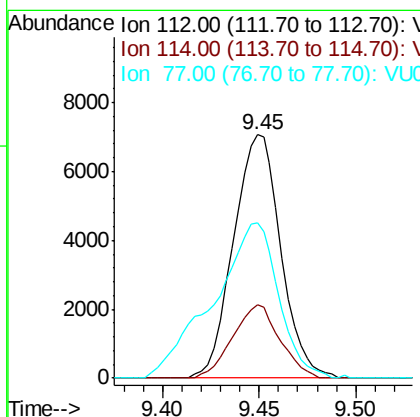
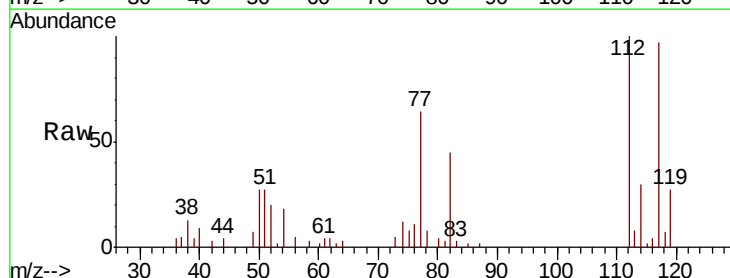
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-06

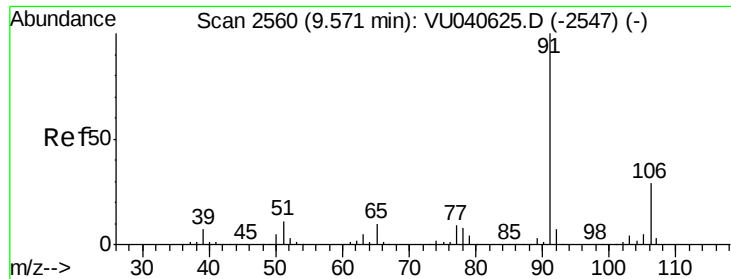
Tot Ion:107 Resp: 4754
 Ion Ratio Lower Upper
 107 100
 109 100.7 67.8 125.8
 188 4.3 2.8 4.2#



#51
 Chlorobenzene
 Concen: 2.203 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

Tgt Ion:112 Resp: 12001
 Ion Ratio Lower Upper
 112 100
 114 30.2 22.1 41.1
 77 63.7 50.4 75.6





#52

Ethylbenzene

Concen: 2.027 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. 0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Instrument :

MSVOA_U

ClientSampleId :

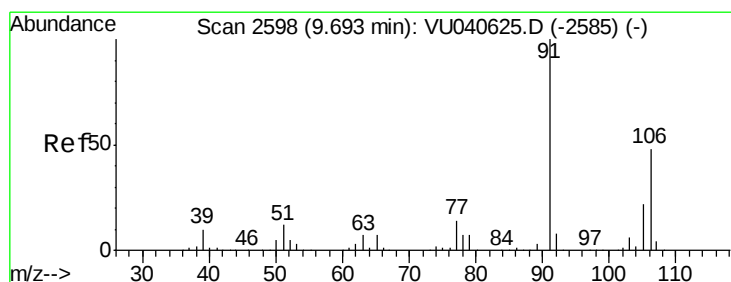
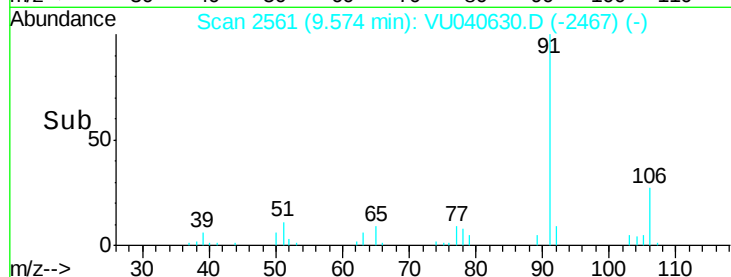
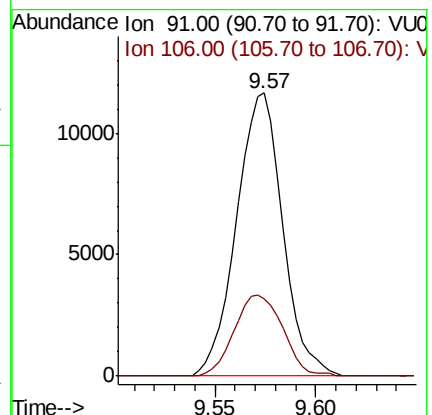
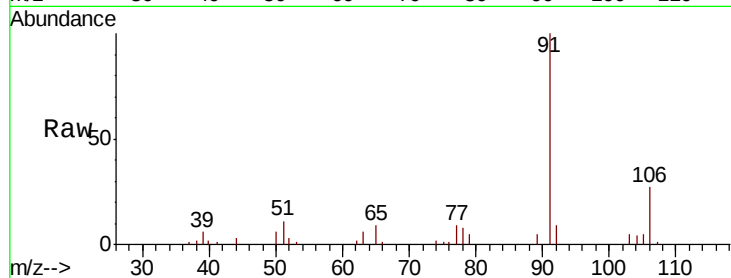
MDL-ME-SOIL-06

Tot Ion: 91 Resp: 18691

Ion Ratio Lower Upper

91 100

106 27.3 20.9 38.9



#53

m,p-Xylene

Concen: 1.861 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040630.D

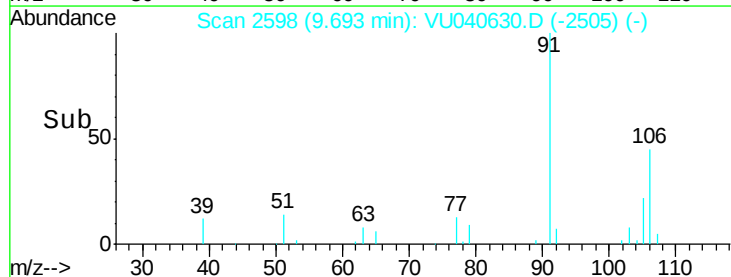
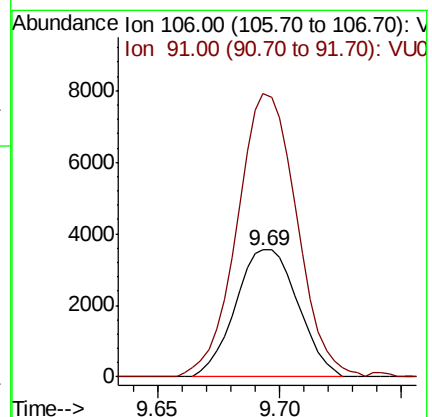
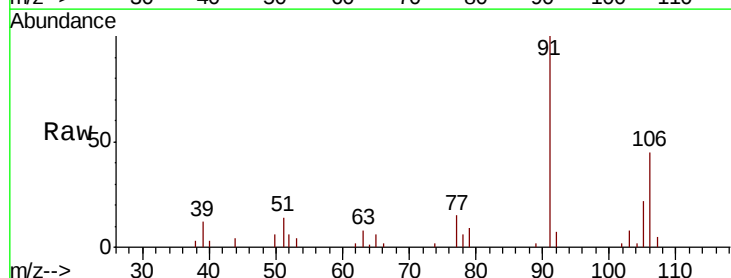
Acq: 10 Oct 2020 12:43

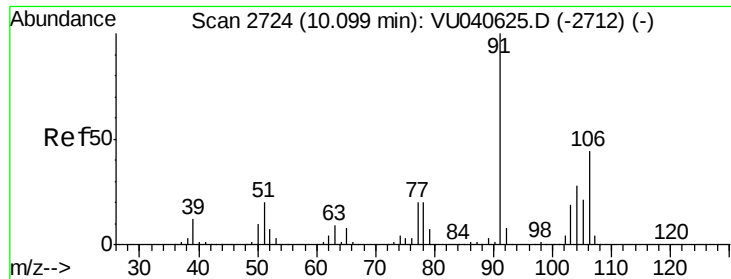
Tgt Ion: 106 Resp: 6318

Ion Ratio Lower Upper

106 100

91 222.9 150.1 278.7

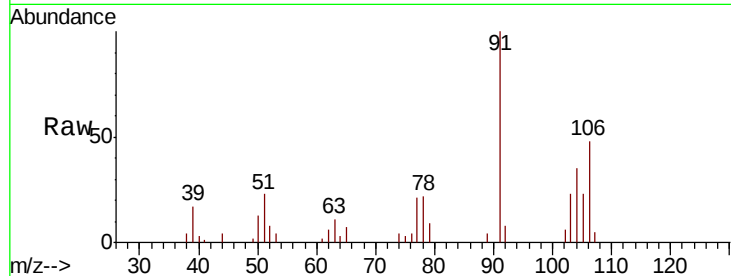




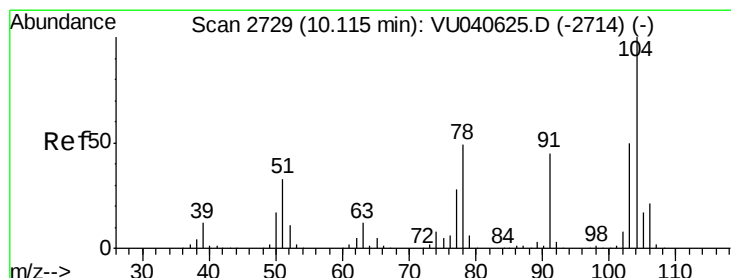
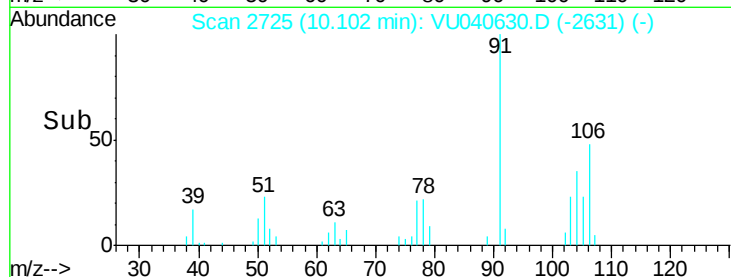
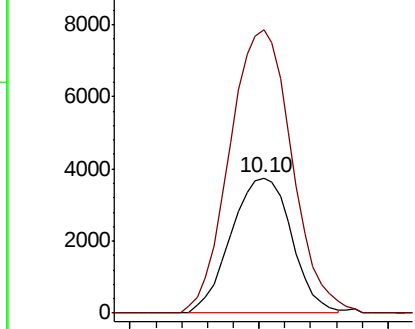
#54
o-xylene
Concen: 1.896 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU040630.D
Acq: 10 Oct 2020 12:43

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-06

Tot Ion:106 Resp: 6124
Ion Ratio Lower Upper
106 100
91 209.6 155.6 289.0

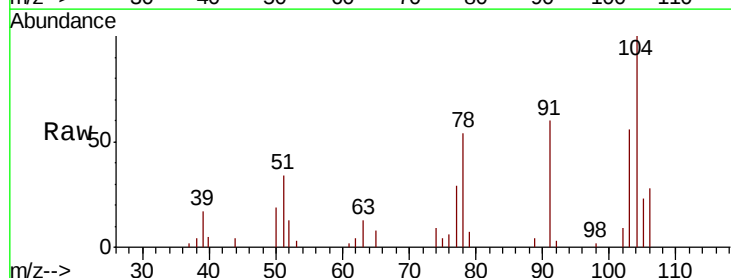


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

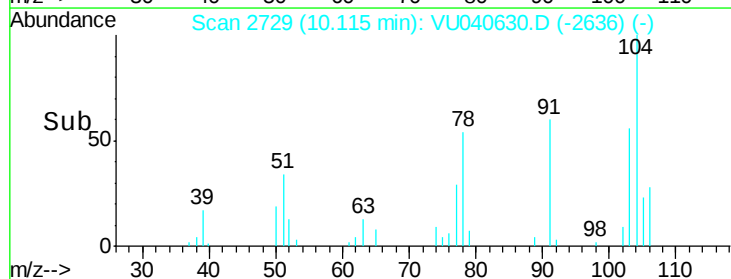
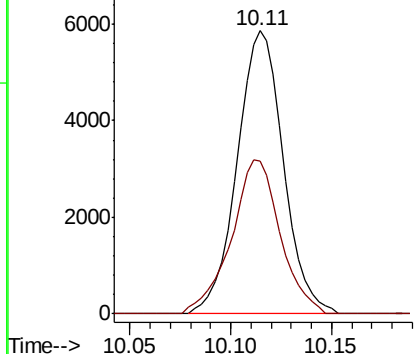


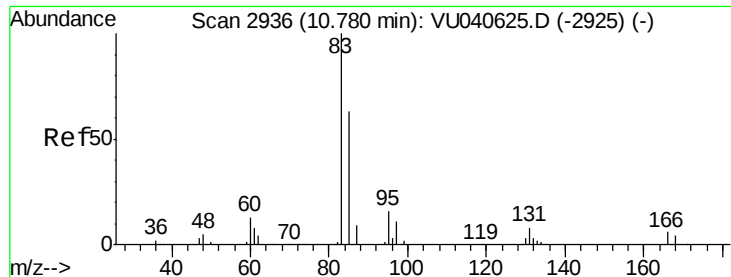
#55
Styrene
Concen: 1.653 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU040630.D
Acq: 10 Oct 2020 12:43

Tgt Ion:104 Resp: 9407
Ion Ratio Lower Upper
104 100
78 54.1 35.2 65.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0

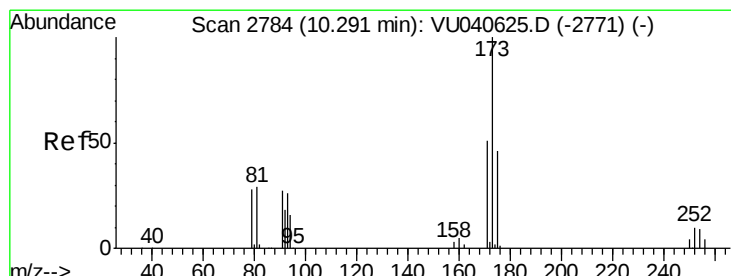
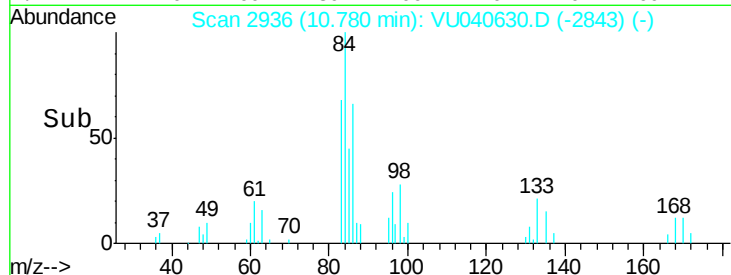
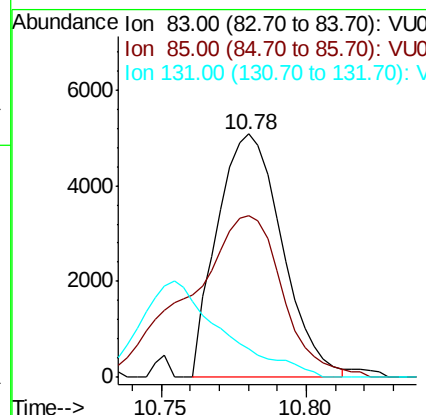
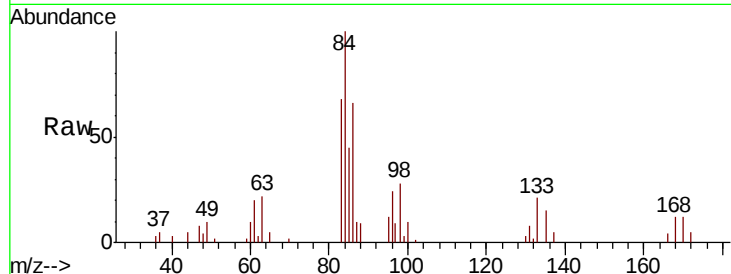




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.231 ug/L
 RT: 10.78 min Scan# 2936
 Delta R.T. -0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

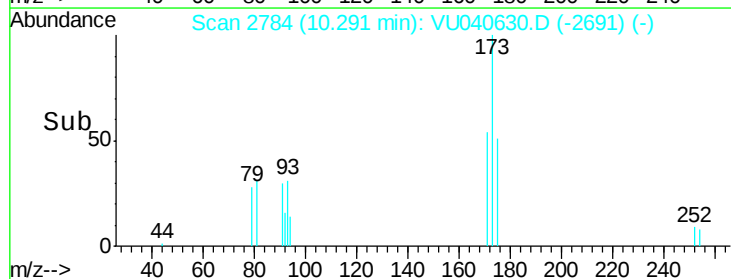
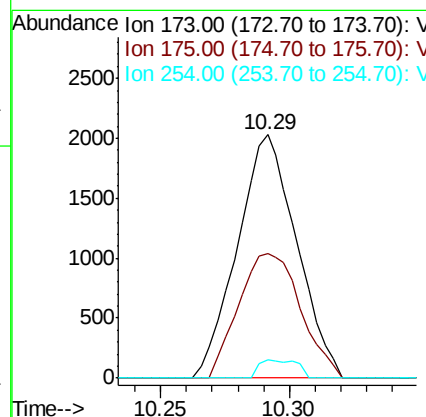
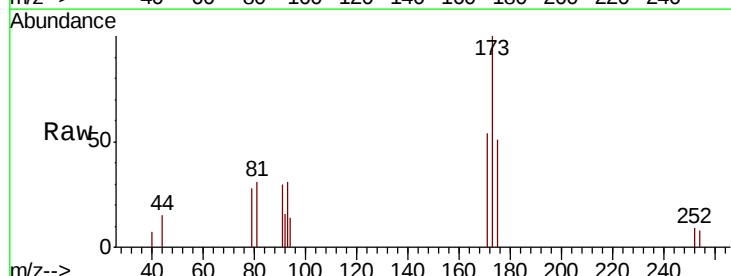
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-06

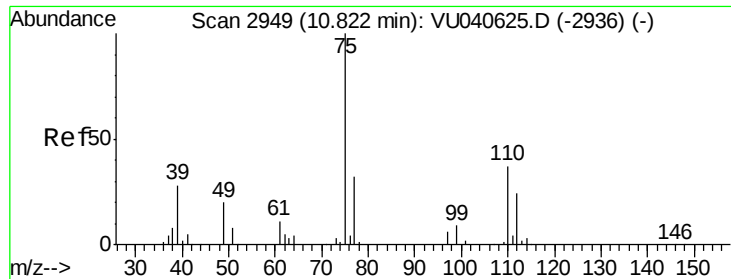
Tot Ion: 83 Resp: 7896
 Ion Ratio Lower Upper
 83 100
 85 66.6 44.2 82.2
 131 11.6 7.1 10.7#



#59
 Bromoform
 Concen: 2.269 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. -0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

Tgt Ion: 173 Resp: 3251
 Ion Ratio Lower Upper
 173 100
 175 53.6 38.5 57.7
 254 3.3 7.0 10.6#

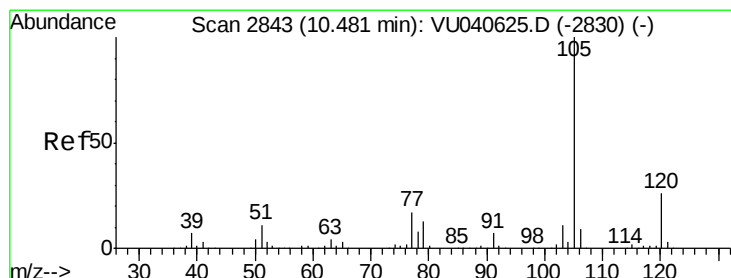
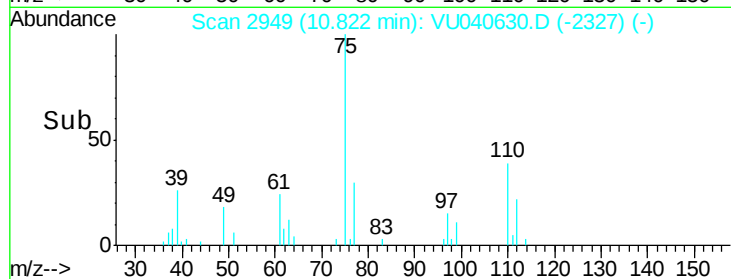
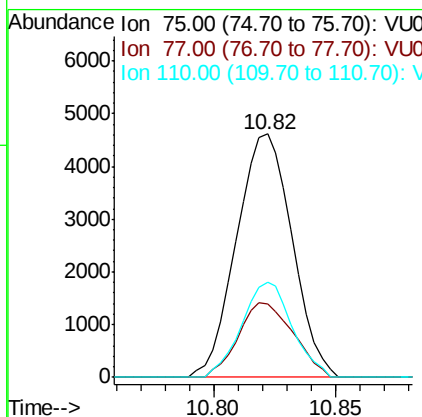
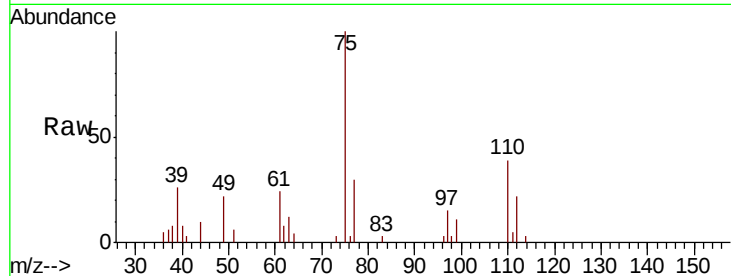




#60
 1,2,3-Trichloropropane
 Concen: 2.751 ug/L
 RT: 10.82 min Scan# 2949
 Delta R.T. -0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

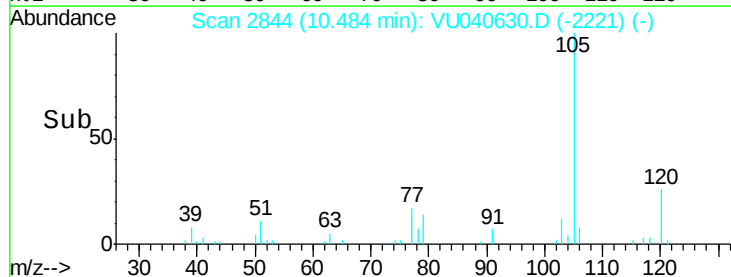
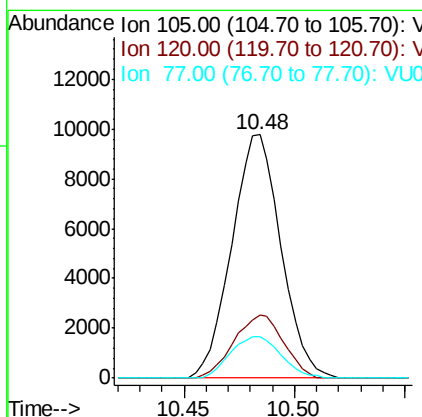
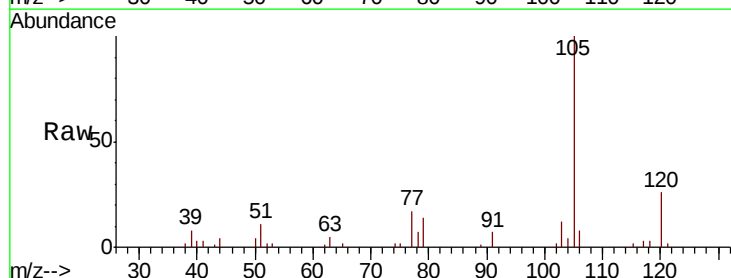
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-06

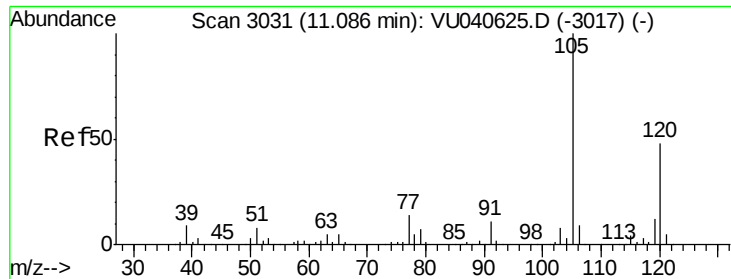
Tot Ion: 75 Resp: 7304
 Ion Ratio Lower Upper
 75 100
 77 30.1 26.4 39.6
 110 35.4 30.1 45.1



#61
 Isopropylbenzene
 Concen: 1.926 ug/L
 RT: 10.48 min Scan# 2844
 Delta R.T. 0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

Tgt Ion: 105 Resp: 15118
 Ion Ratio Lower Upper
 105 100
 120 26.1 20.7 31.1
 77 17.6 13.8 20.8

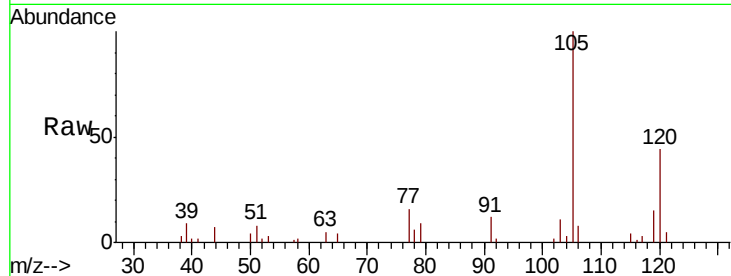




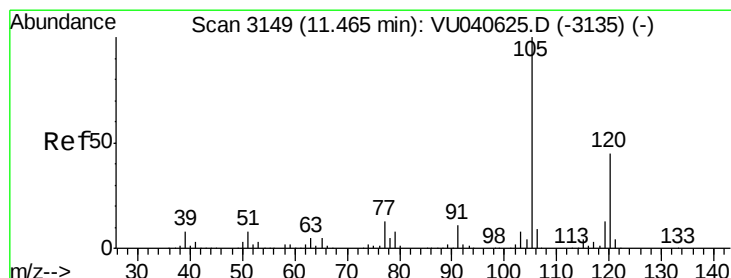
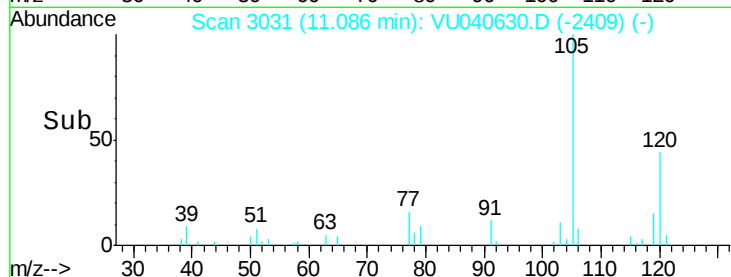
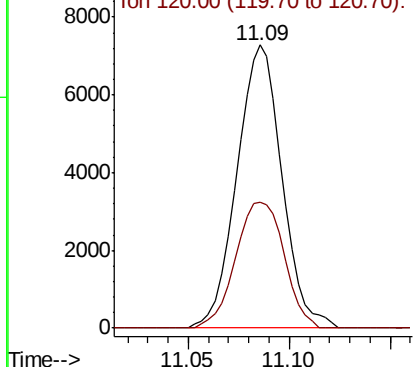
#62
 1,3,5-Trimethylbenzene
 Concen: 1.769 ug/L
 RT: 11.09 min Scan# 3031
 Delta R.T. -0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-06

Tot Ion:105 Resp: 11408
 Ion Ratio Lower Upper
 105 100
 120 47.8 38.6 58.0

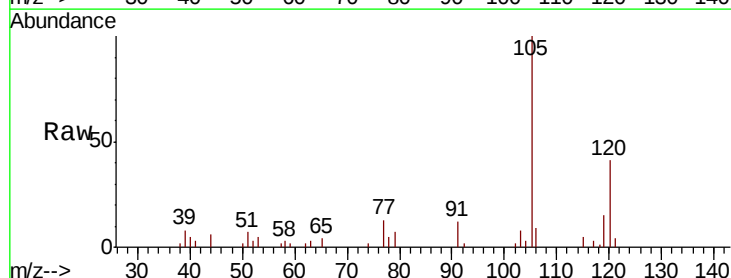


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

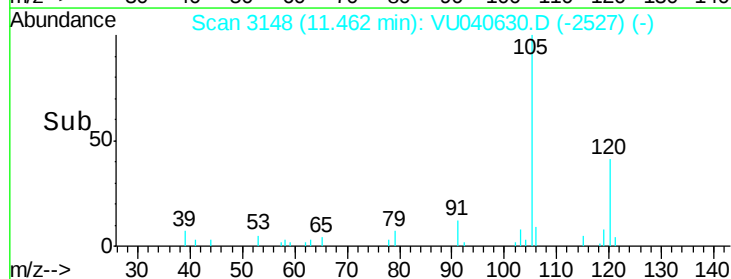
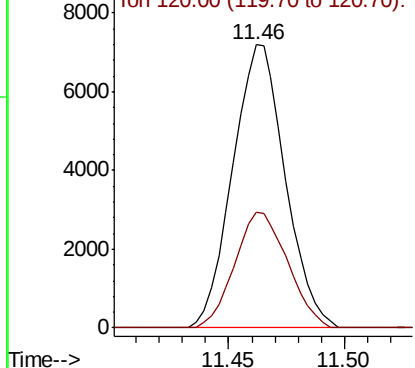


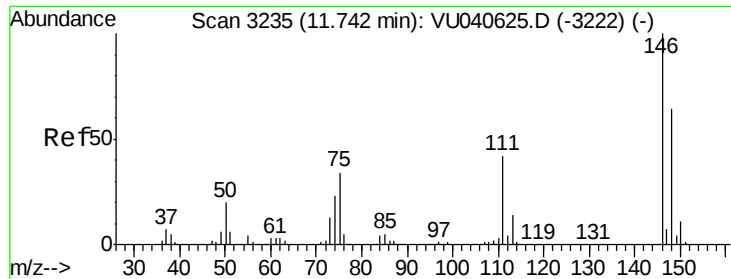
#63
 1,2,4-Trimethylbenzene
 Concen: 1.731 ug/L
 RT: 11.46 min Scan# 3148
 Delta R.T. -0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

Tgt Ion:105 Resp: 11321
 Ion Ratio Lower Upper
 105 100
 120 41.0 35.7 53.5



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

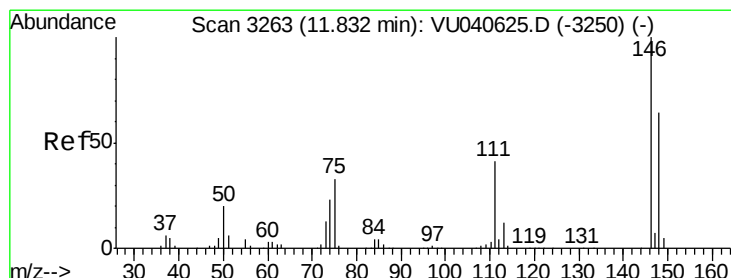
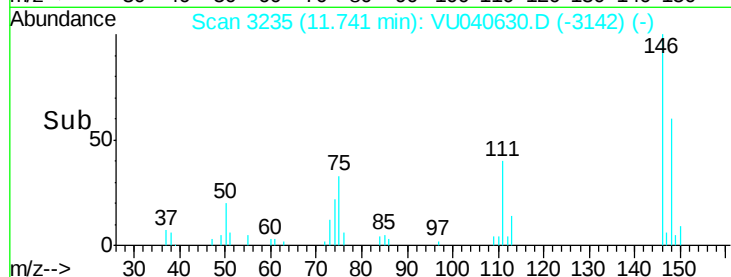
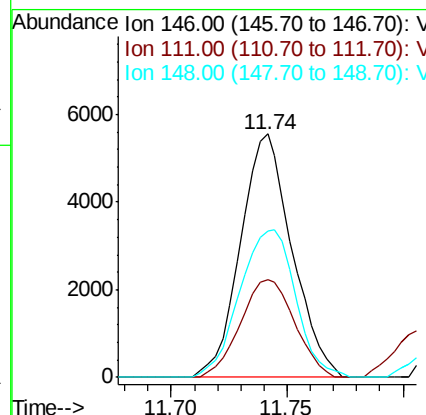
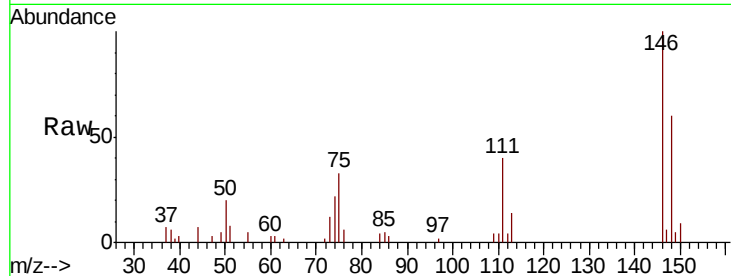




#64
 1,3-Dichlorobenzene
 Concen: 2.238 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

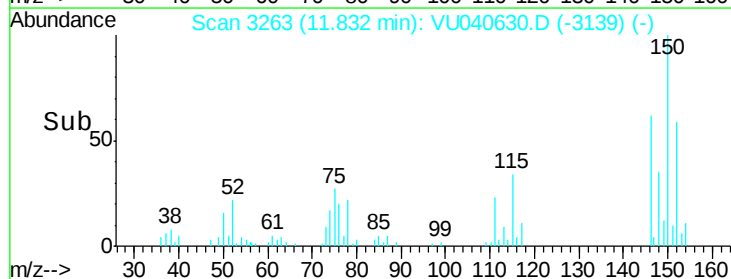
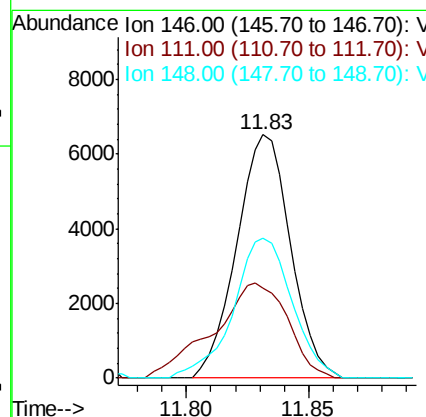
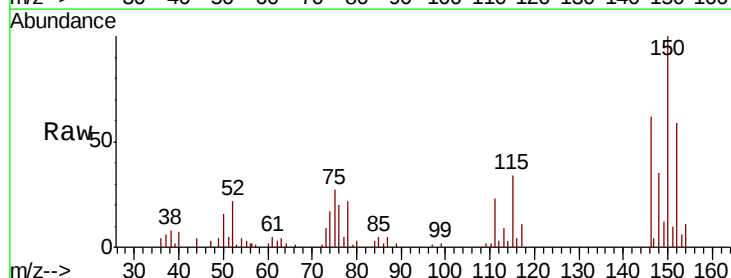
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-06

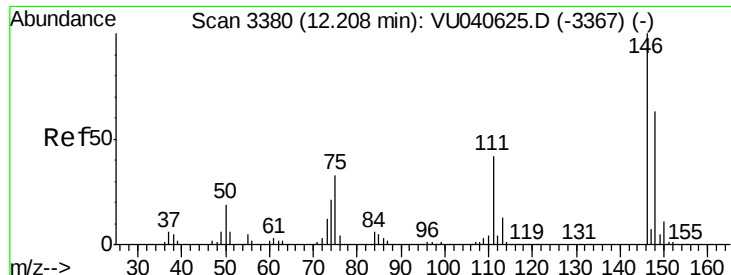
Tot Ion:146 Resp: 8566
 Ion Ratio Lower Upper
 146 100
 111 40.3 30.8 57.2
 148 60.3 45.4 84.2



#65
 1,4-Dichlorobenzene
 Concen: 2.479 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

Tgt Ion:146 Resp: 9966
 Ion Ratio Lower Upper
 146 100
 111 36.8 28.7 53.3
 148 57.3 44.1 81.9





#67

1,2-Dichlorobenzene

Concen: 2.659 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. -0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-06

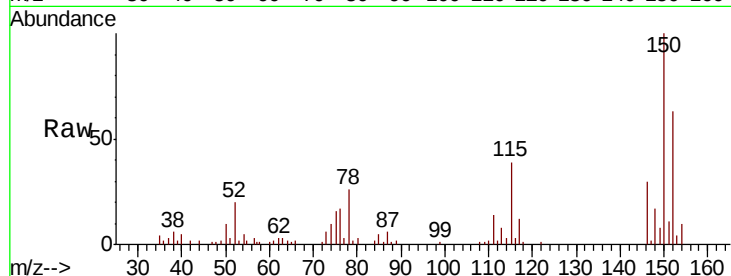
Tot Ion:146 Resp: 10196

Ion Ratio Lower Upper

146 100

111 46.9 35.7 53.5

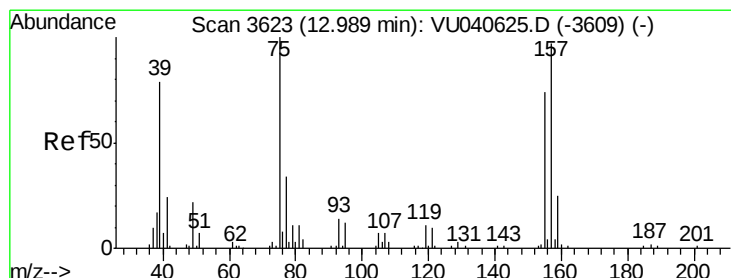
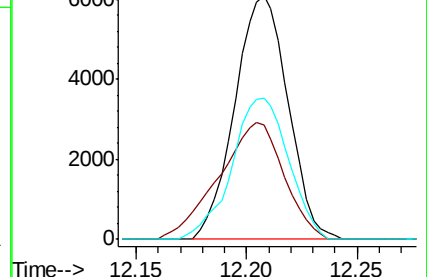
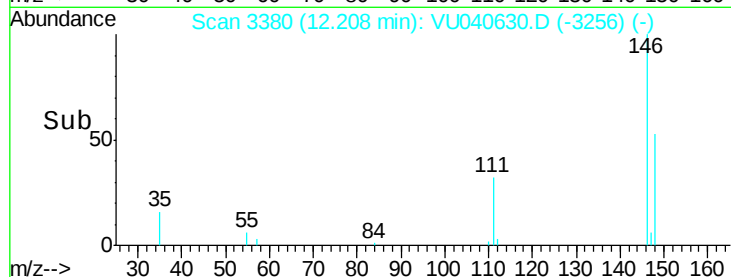
148 57.9 50.6 75.8



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: 2.487 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

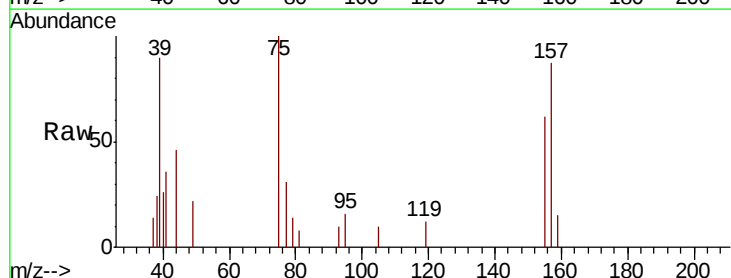
Tgt Ion: 75 Resp: 1855

Ion Ratio Lower Upper

75 100

155 62.2 61.0 91.6

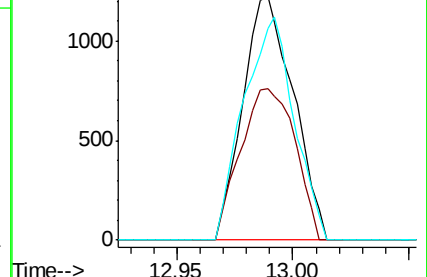
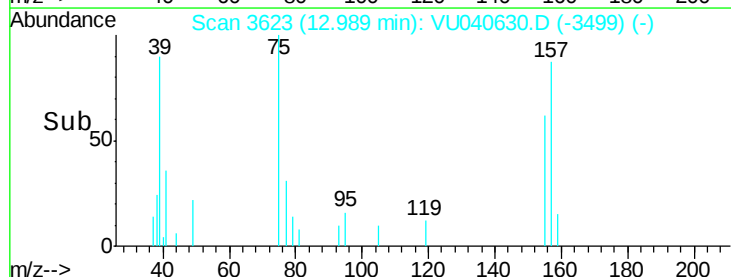
157 87.1 73.5 110.3

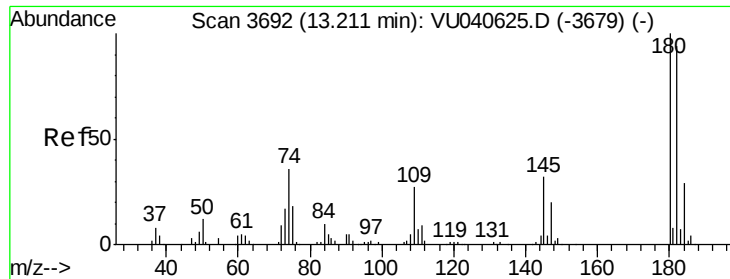


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

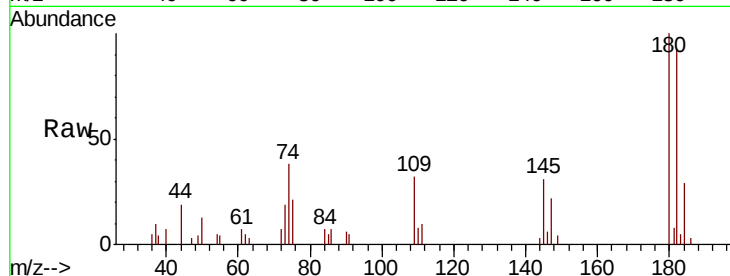




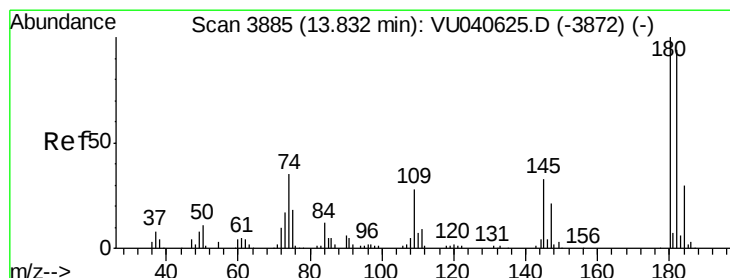
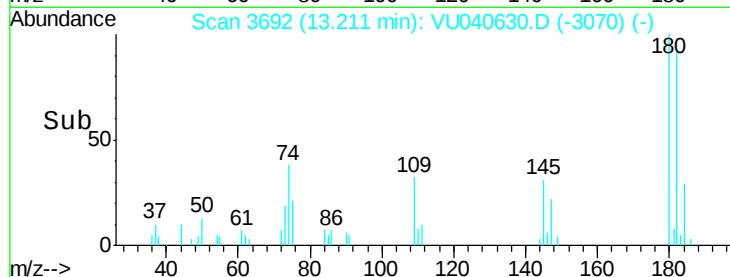
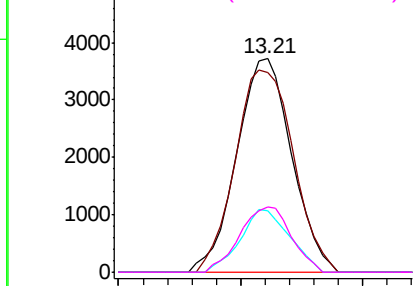
#69
 1,3,5-Trichlorobenzene
 Concen: 2.316 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-06

Tot Ion:180 Resp: 5808
 Ion Ratio Lower Upper
 180 100
 182 100.3 76.9 115.3
 184 26.4 24.2 36.2
 145 28.6 25.4 38.2

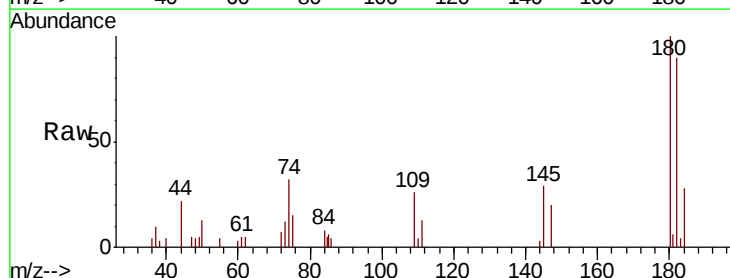


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

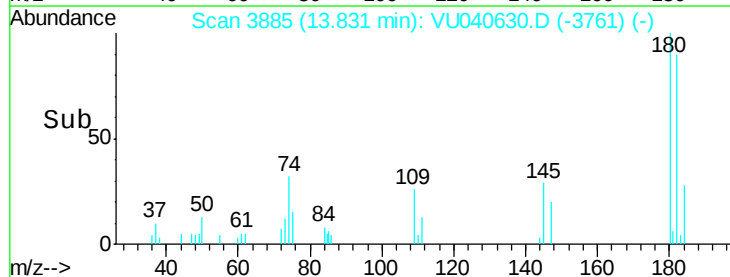
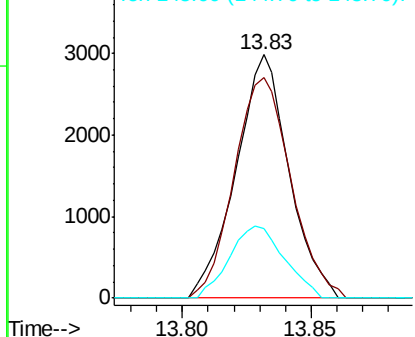


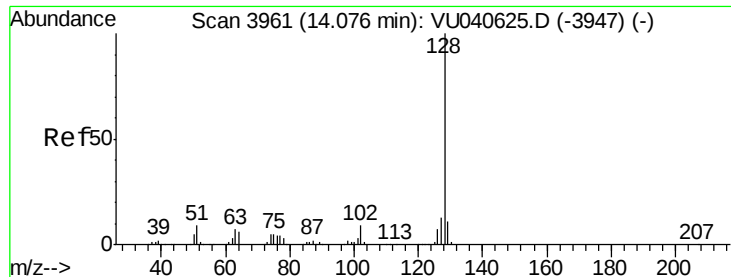
#70
 1,2,4-trichlorobenzene
 Concen: 1.973 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU040630.D
 Acq: 10 Oct 2020 12:43

Tgt Ion:180 Resp: 4289
 Ion Ratio Lower Upper
 180 100
 182 97.0 75.0 112.6
 145 30.7 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: 1.276 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-06

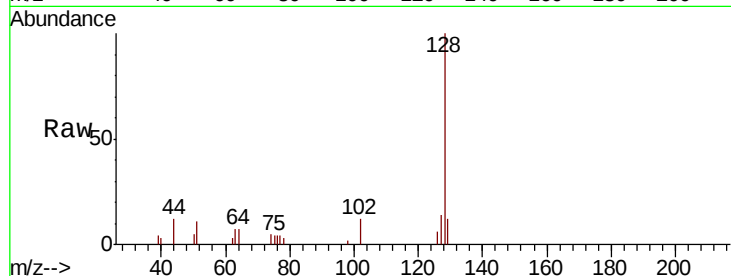
Tot Ion:128 Resp: 8572

Ion Ratio Lower Upper

128 100

127 14.3 10.5 15.7

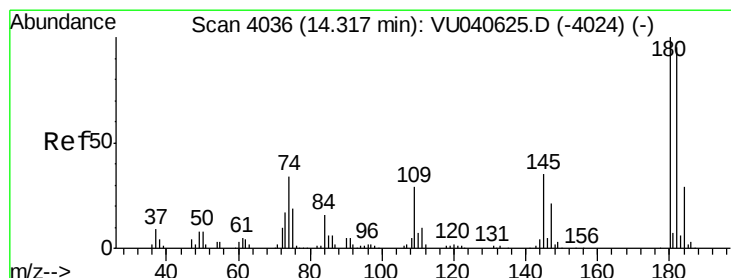
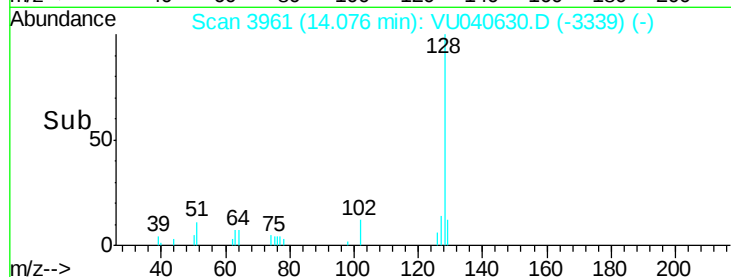
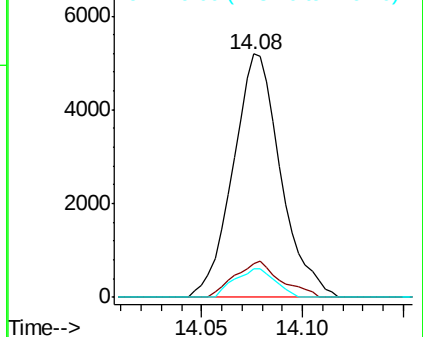
129 10.2 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 1.769 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. -0.00 min

Lab File: VU040630.D

Acq: 10 Oct 2020 12:43

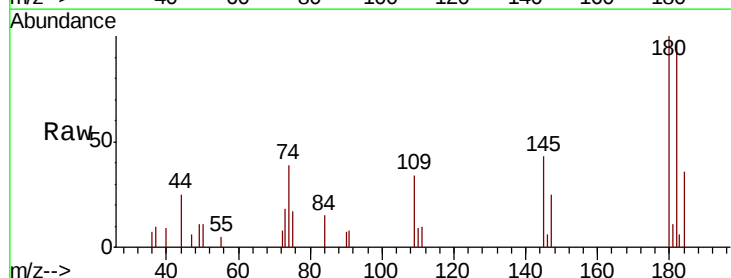
Tgt Ion:180 Resp: 3816

Ion Ratio Lower Upper

180 100

182 93.6 77.7 116.5

145 34.4 28.4 42.6



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

