

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100620\
 Data File : VU040537.D
 Acq On : 06 Oct 2020 19:21
 Operator : SY/MD
 Sample : MDL01
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-01

Quant Time: Oct 07 08:14:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Oct 07 08:04:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	282533	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	282666	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	131671	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	114259	47.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.18%
7) Chloroethane-d5	1.92	69	93066	50.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.70%
11) 1,1-Dichloroethene-d2	2.58	63	170254	36.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.54%
21) 2-Butanone-d5	4.64	46	194559	101.04	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.04%
24) Chloroform-d	5.08	84	203670	48.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.32%
26) 1,2-Dichloroethane-d4	5.72	65	143423	49.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.42%
32) Benzene-d6	5.74	84	399282	49.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.26%
36) 1,2-Dichloropropane-d6	6.70	67	132441	49.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.24%
41) Toluene-d8	7.91	98	348105	47.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.46%
43) trans-1,3-Dichloropropene-	8.19	79	63257	46.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.74%
47) 2-Hexanone-d5	8.64	63	123770	98.47	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.47%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	180982	46.47	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.94%
66) 1,2-Dichlorobenzene-d4	12.19	152	133963	49.99	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.98%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	5570	2.047	ug/L	98
3) Chloromethane	1.53	50	6827	2.388	ug/L	99
5) Vinyl chloride	1.61	62	6651	2.350	ug/L #	60
6) Bromomethane	1.86	94	3039	2.046	ug/L	92
8) Chloroethane	1.94	64	4244	2.485	ug/L	93
9) Trichlorofluoromethane	2.15	101	8163	2.248	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	5815	2.687	ug/L	89
12) 1,1-Dichloroethene	2.59	96	5288	2.643	ug/L #	1
13) Acetone	2.63	43	6156	3.329	ug/L	98
14) Carbon disulfide	2.80	76	15013	2.185	ug/L	96
15) Methyl Acetate	2.96	43	6375	2.113	ug/L	98
16) Methylene chloride	3.06	84	5577	2.350	ug/L	94
17) trans-1,2-Dichloroethene	3.37	96	4458	2.092	ug/L	87
18) Methyl tert-butyl Ether	3.38	73	7649	1.141	ug/L #	60
19) 1,1-Dichloroethane	3.89	63	8757	2.060	ug/L	93
20) cis-1,2-Dichloroethene	4.68	96	5061	2.203	ug/L	93
22) 2-Butanone	4.72	43	8961	3.799	ug/L	100

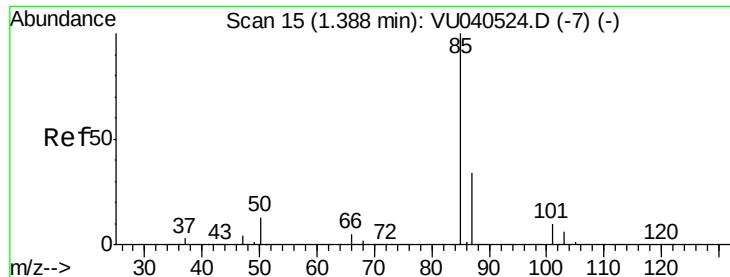
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100620\
 Data File : VU040537.D
 Acq On : 06 Oct 2020 19:21
 Operator : SY/MD
 Sample : MDL01
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 Quant Title : VOC Analysis
 QLast Update : Wed Oct 07 08:04:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	2600	2.172	ug/L	93
25) Chloroform	5.11	83	13023	3.004	ug/L	96
27) 1,2-Dichloroethane	5.81	62	8207	2.294	ug/L	98
29) Cyclohexane	5.40	56	7362	1.945	ug/L #	91
30) 1,1,1-Trichloroethane	5.33	97	7871	2.168	ug/L	96
31) Carbon tetrachloride	5.54	117	6489	2.067	ug/L	95
33) Benzene	5.79	78	19922	2.181	ug/L	100
34) Trichloroethene	6.55	95	4728	2.009	ug/L	94
35) Methylcyclohexane	6.77	83	6989	1.953	ug/L #	72
37) 1,2-Dichloropropane	6.80	63	5368	2.140	ug/L #	89
38) Bromodichloromethane	7.12	83	6729	2.065	ug/L	96
39) cis-1,3-Dichloropropene	7.62	75	7338	1.996	ug/L	96
40) 4-Methyl-2-pentanone	7.80	43	15376	3.884	ug/L	96
42) Toluene	7.98	91	20025	2.147	ug/L	99
44) trans-1,3-Dichloropropene	8.21	75	7897	2.133	ug/L	99
45) 1,1,2-Trichloroethane	8.40	97	4703	2.093	ug/L	94
46) Tetrachloroethene	8.56	164	3824	2.249	ug/L	92
48) 2-Hexanone	8.69	43	16521	5.135	ug/L	96
49) Dibromochloromethane	8.82	129	5105	2.080	ug/L	100
50) 1,2-Dibromoethane	8.93	107	5216	2.189	ug/L	87
51) Chlorobenzene	9.45	112	13351	2.182	ug/L	95
52) Ethylbenzene	9.57	91	20449	1.975	ug/L	97
53) m,p-Xylene	9.70	106	7065	1.853	ug/L	98
54) o-xylene	10.10	106	6442	1.776	ug/L	93
55) Styrene	10.12	104	10483	1.641	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.78	83	8741	2.199	ug/L #	99
59) Bromoform	10.29	173	3399	2.106	ug/L #	98
60) 1,2,3-Trichloropropane	10.83	75	6725	2.248	ug/L	95
61) Isopropylbenzene	10.48	105	16613	1.879	ug/L	100
62) 1,3,5-Trimethylbenzene	11.09	105	12280	1.690	ug/L	100
63) 1,2,4-Trimethylbenzene	11.47	105	12212	1.657	ug/L	99
64) 1,3-Dichlorobenzene	11.74	146	8972	2.081	ug/L	91
65) 1,4-Dichlorobenzene	11.83	146	10210	2.255	ug/L	98
67) 1,2-Dichlorobenzene	12.21	146	9882	2.288	ug/L	91
68) 1,2-Dibromo-3-chloropropan	13.00	75	1740	2.071	ug/L	88
69) 1,3,5-Trichlorobenzene	13.21	180	5661	2.004	ug/L	98
70) 1,2,4-trichlorobenzene	13.84	180	4491	1.834	ug/L	90
71) Naphthalene	14.08	128	9901	1.308	ug/L	96
72) 1,2,3-Trichlorobenzene	14.32	180	3943	1.622	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 2.047 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

Instrument :

MSVOA_U

ClientSampleId :

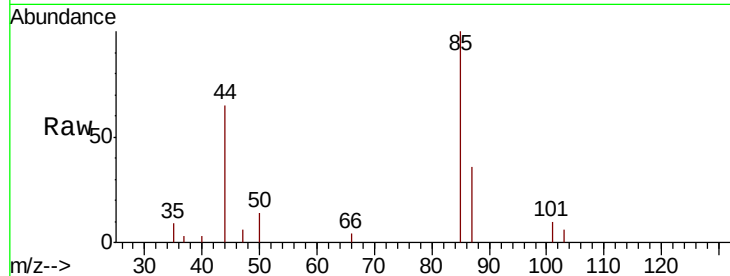
MDL-ME-SOIL-01

Tot Ion: 85 Resp: 5570

Ion Ratio Lower Upper

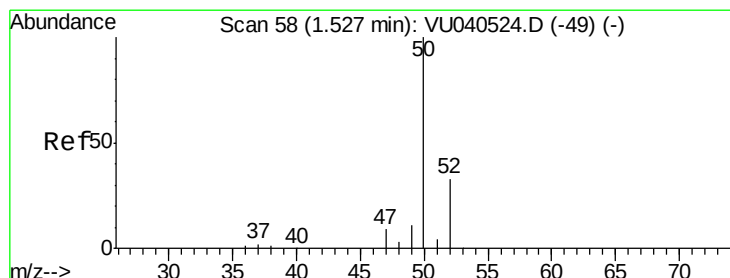
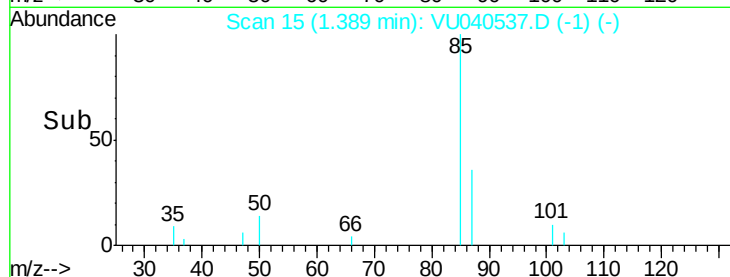
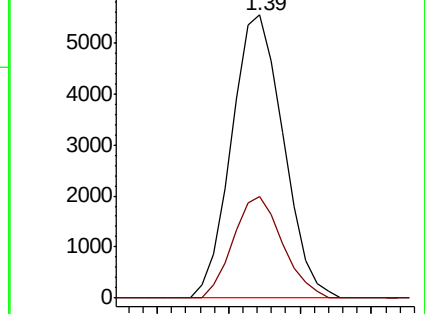
85 100

87 34.1 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU040524.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU040524.D (-7) (-)



#3

Chloromethane

Concen: 2.388 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040537.D

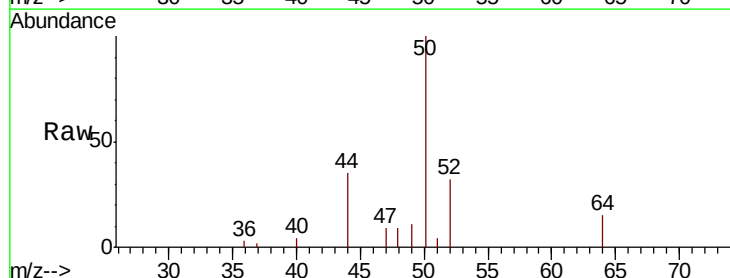
Acq: 06 Oct 2020 19:21

Tgt Ion: 50 Resp: 6827

Ion Ratio Lower Upper

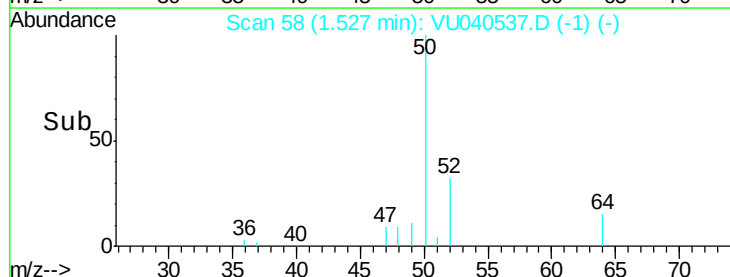
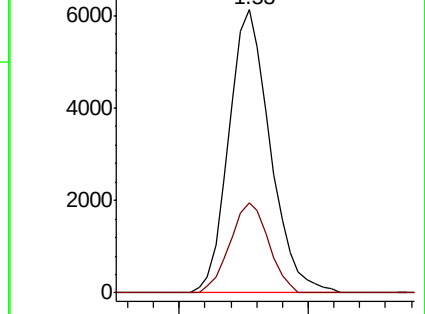
50 100

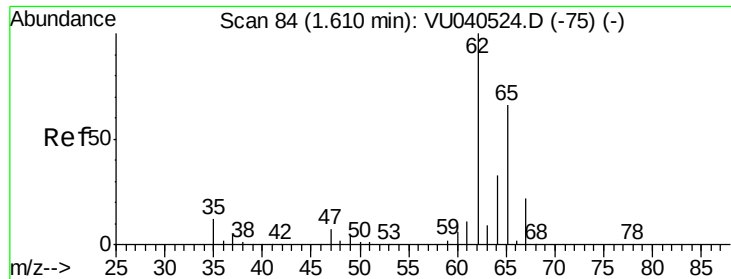
52 32.0 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU040524.D (-49) (-)

Ion 52.00 (51.70 to 52.70): VU040524.D (-49) (-)





#5

Vinyl chloride

Concen: 2.350 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

Instrument :

MSVOA_U

ClientSampleId :

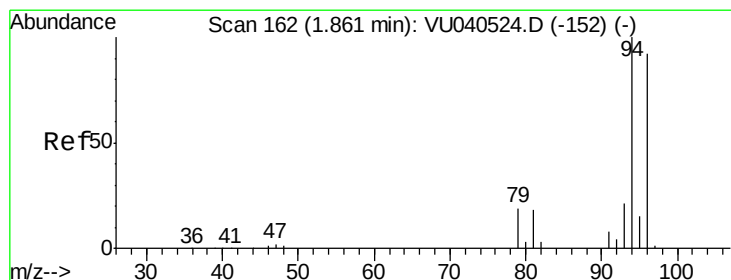
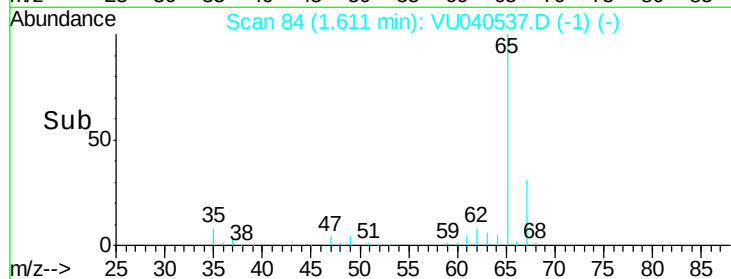
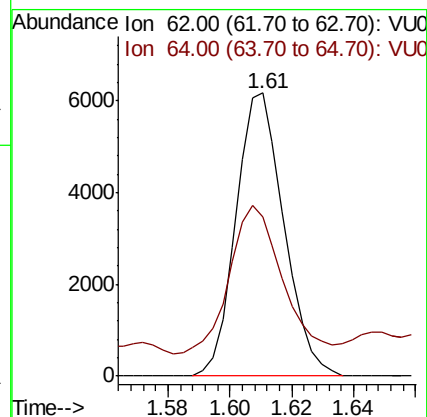
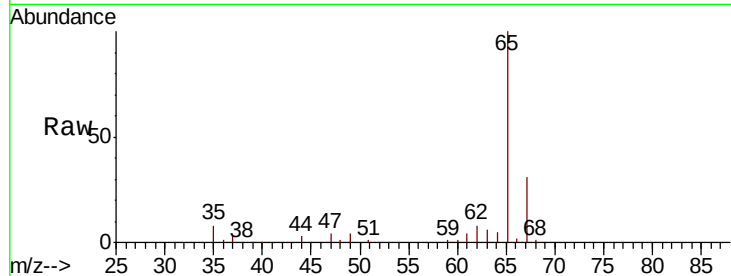
MDL-ME-SOIL-01

Tot Ion: 62 Resp: 6651

Ion Ratio Lower Upper

62 100

64 56.2 23.4 43.6#



#6

Bromomethane

Concen: 2.046 ug/L

RT: 1.86 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU040537.D

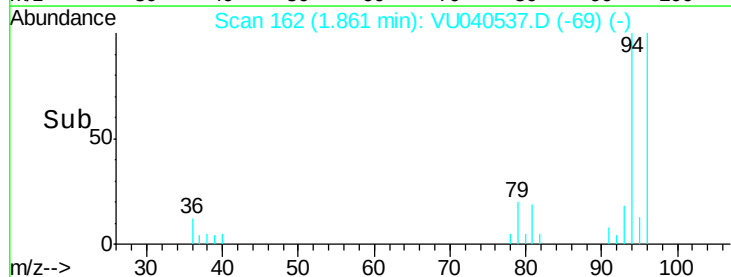
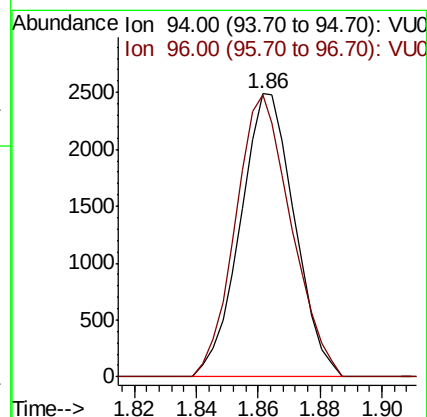
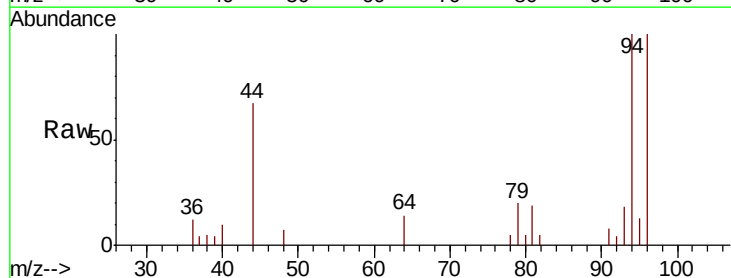
Acq: 06 Oct 2020 19:21

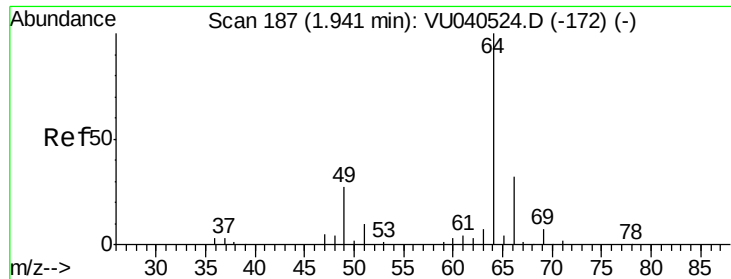
Tgt Ion: 94 Resp: 3039

Ion Ratio Lower Upper

94 100

96 99.7 64.4 119.6

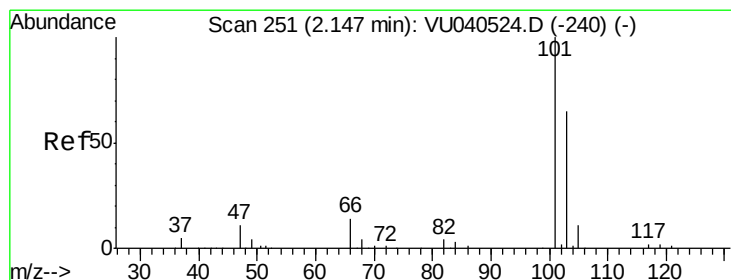
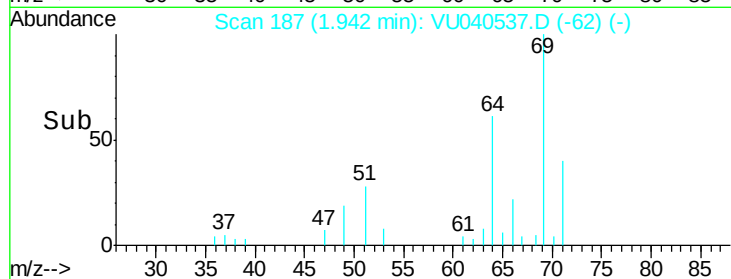
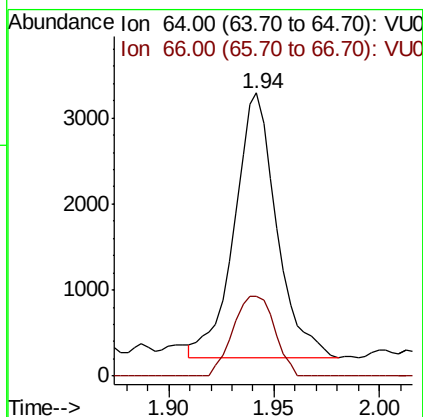
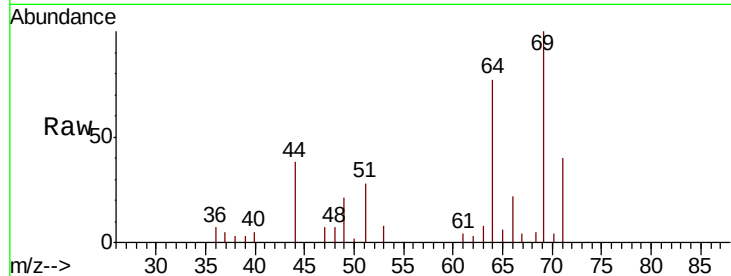




#8
Chloroethane
Concen: 2.485 ug/L
RT: 1.94 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU040537.D
Acq: 06 Oct 2020 19:21

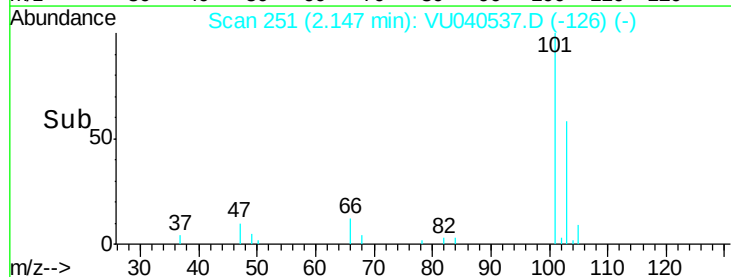
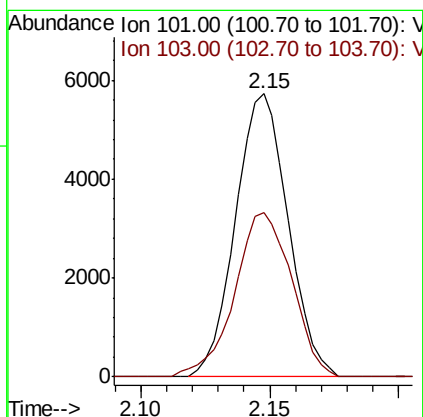
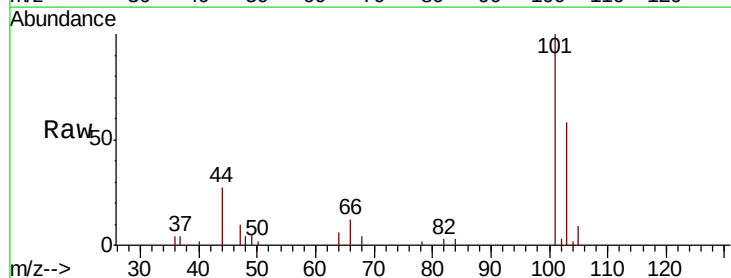
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-01

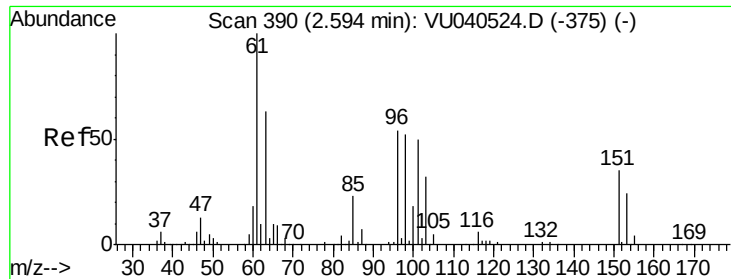
Tot Ion: 64 Resp: 4244
Ion Ratio Lower Upper
64 100
66 28.2 22.5 41.9



#9
Trichlorofluoromethane
Concen: 2.248 ug/L
RT: 2.15 min Scan# 251
Delta R.T. 0.00 min
Lab File: VU040537.D
Acq: 06 Oct 2020 19:21

Tgt Ion: 101 Resp: 8163
Ion Ratio Lower Upper
101 100
103 62.8 52.1 78.1





#10

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

Concen: 2.687 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-01

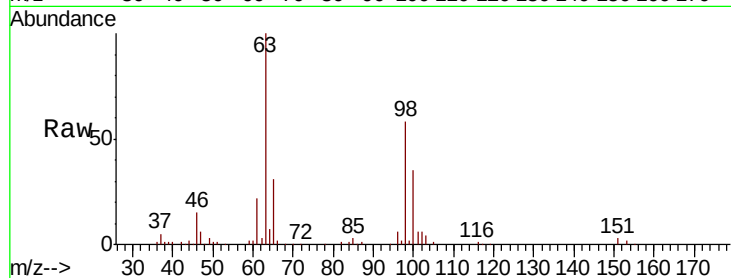
Tot Ion:101 Resp: 5815

Ion Ratio Lower Upper

101 100

85 40.7 35.4 53.2

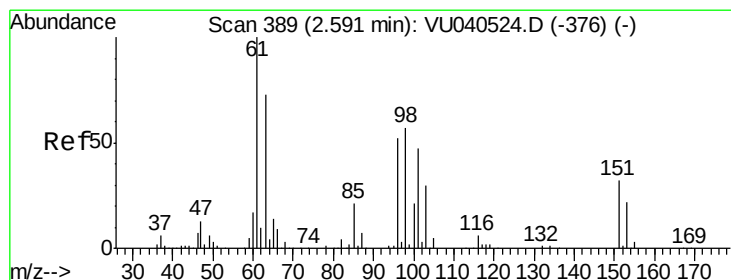
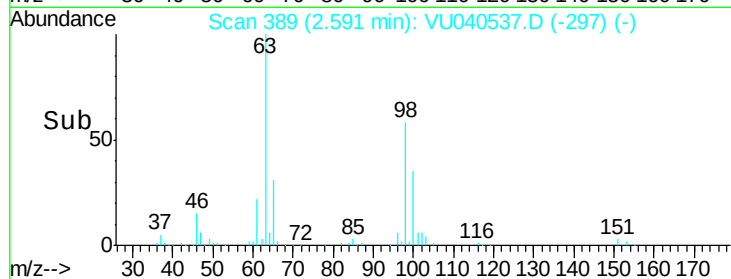
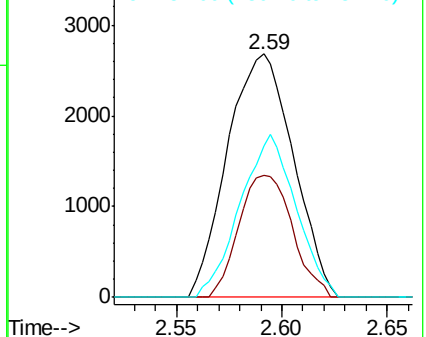
151 56.7 54.8 82.2



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: 2.643 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

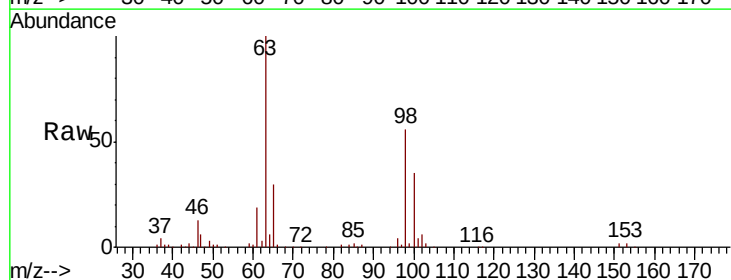
Tgt Ion: 96 Resp: 5288

Ion Ratio Lower Upper

96 100

61 431.1 135.0 250.8#

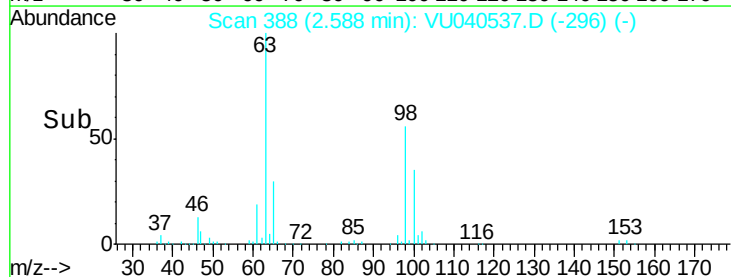
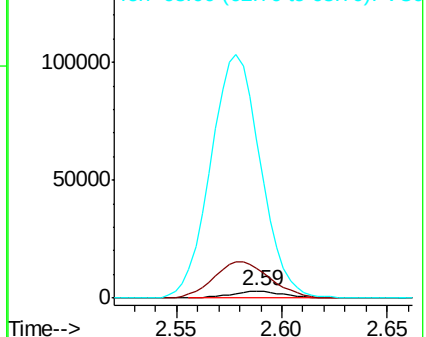
63 2283.3 101.4 188.2#

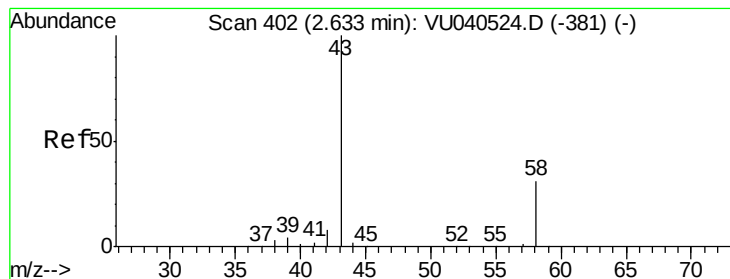


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 3.329 ug/L

RT: 2.63 min Scan# 402

Delta R.T. 0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

Instrument :

MSVOA_U

ClientSampleId :

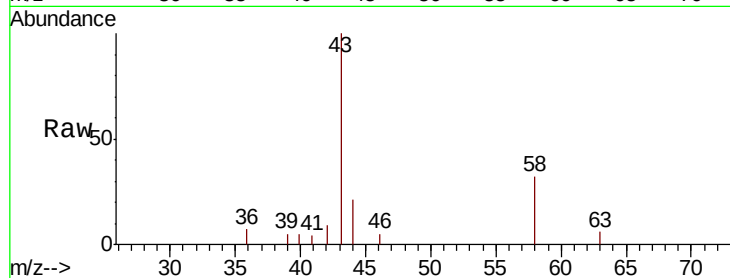
MDL-ME-SOIL-01

Tot Ion: 43 Resp: 6156

Ion Ratio Lower Upper

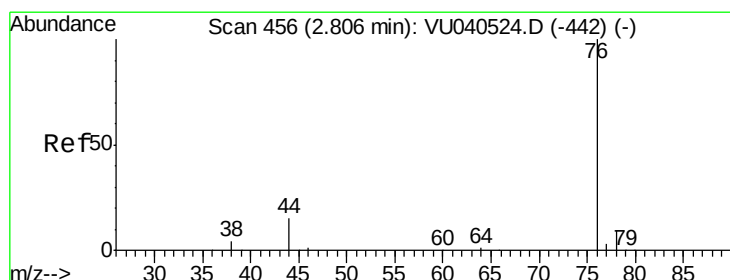
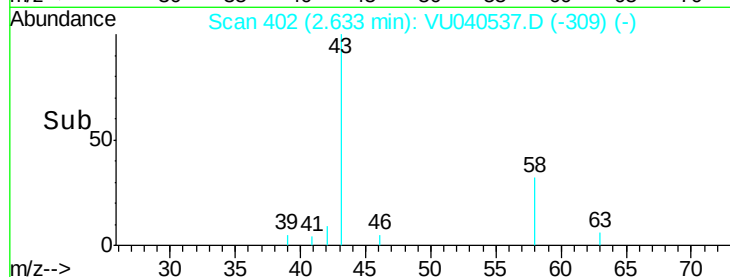
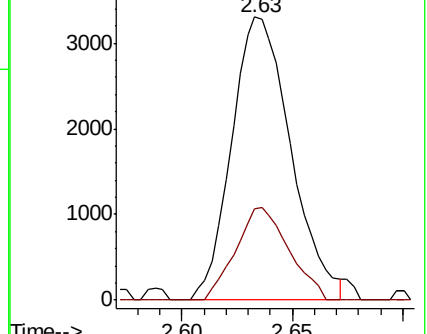
43 100

58 29.3 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VU040537.D (-309) (-)

Ion 58.00 (57.70 to 58.70): VU040537.D (-309) (-)



#14

Carbon disulfide

Concen: 2.185 ug/L

RT: 2.80 min Scan# 455

Delta R.T. -0.00 min

Lab File: VU040537.D

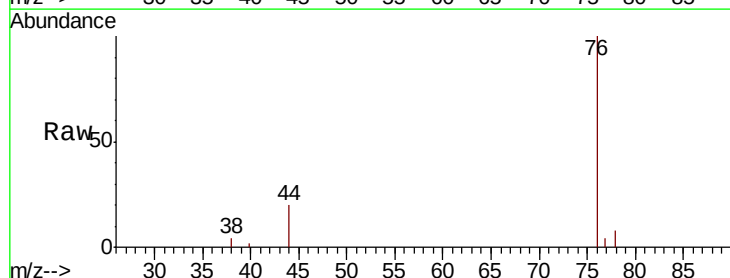
Acq: 06 Oct 2020 19:21

Tgt Ion: 76 Resp: 15013

Ion Ratio Lower Upper

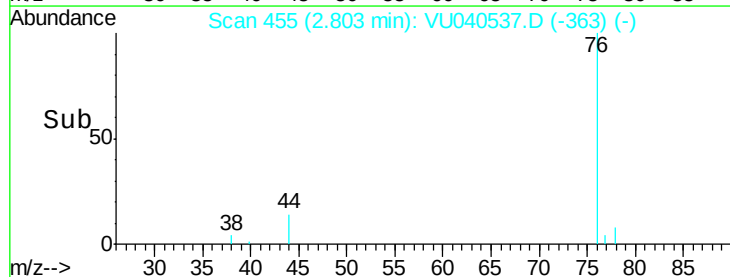
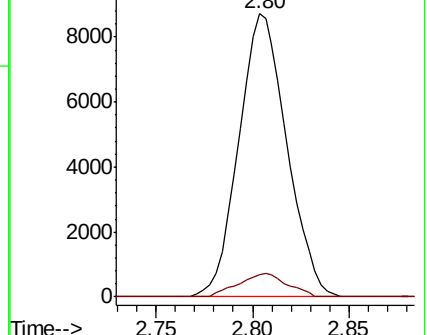
76 100

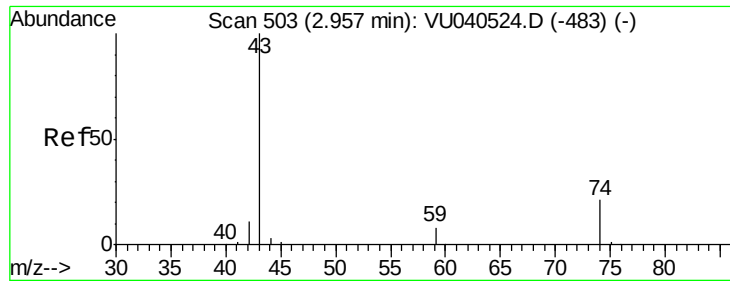
78 7.8 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU040537.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040537.D (-363) (-)

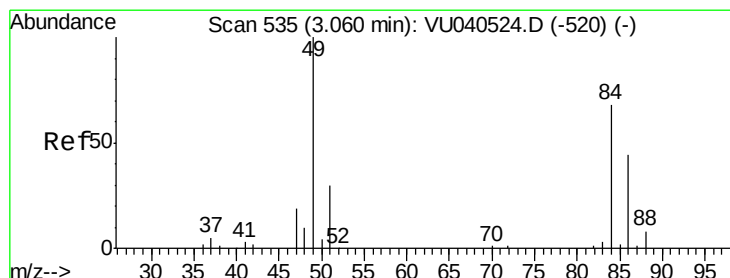
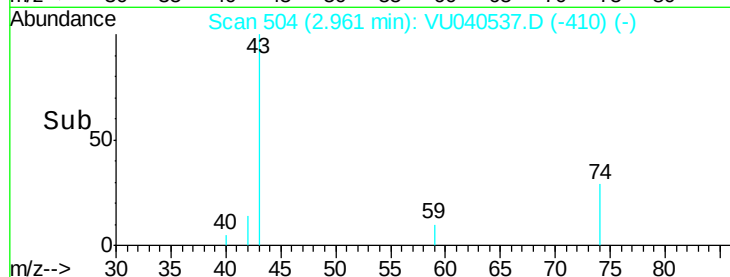
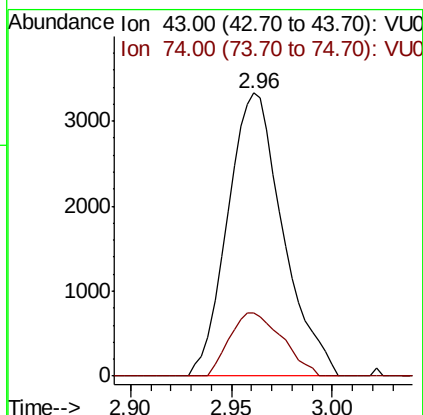
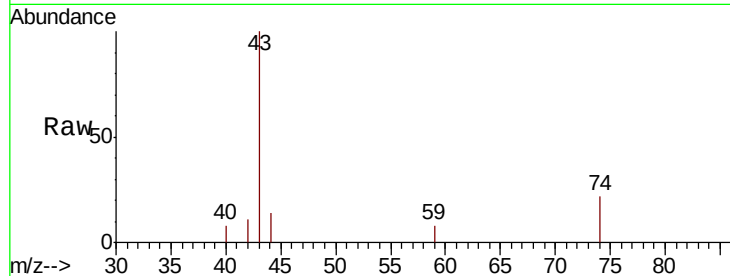




#15
Methyl Acetate
Concen: 2.113 ug/L
RT: 2.96 min Scan# 504
Delta R.T. 0.00 min
Lab File: VU040537.D
Acq: 06 Oct 2020 19:21

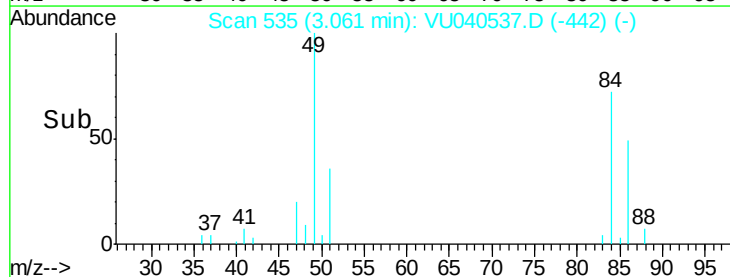
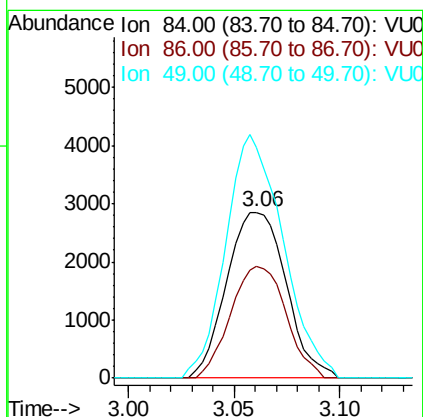
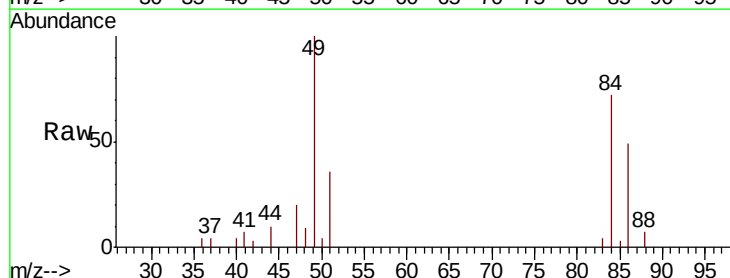
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-01

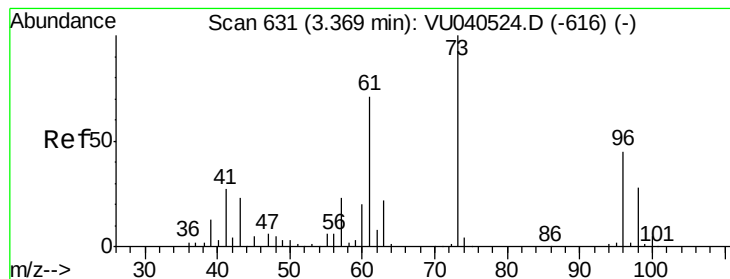
Tot Ion: 43 Resp: 6375
Ion Ratio Lower Upper
43 100
74 21.4 16.4 24.6



#16
Methylene chloride
Concen: 2.350 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU040537.D
Acq: 06 Oct 2020 19:21

Tgt Ion: 84 Resp: 5577
Ion Ratio Lower Upper
84 100
86 67.7 45.4 84.4
49 138.7 102.9 191.1





#17

trans-1,2-Dichloroethene

Concen: 2.092 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-01

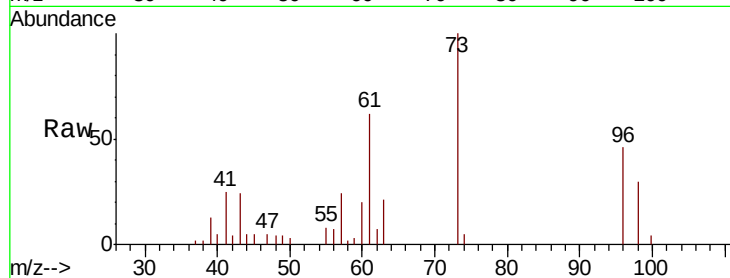
Tot Ion: 96 Resp: 4458

Ion Ratio Lower Upper

96 100

61 135.4 109.6 203.6

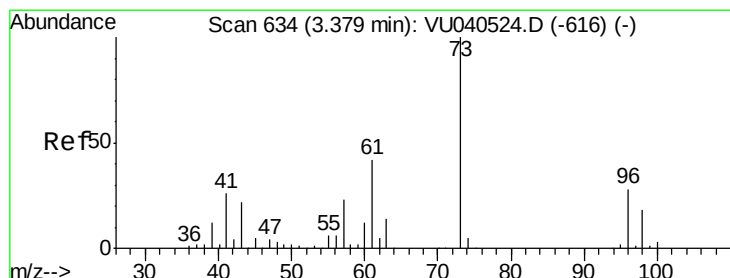
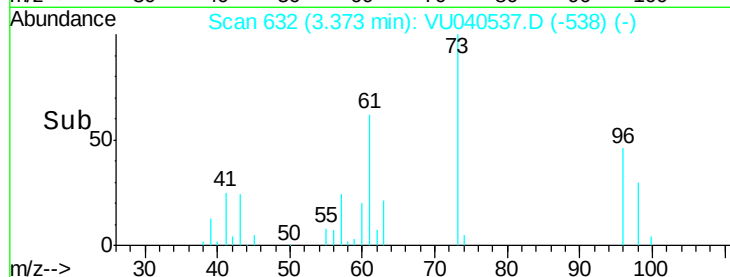
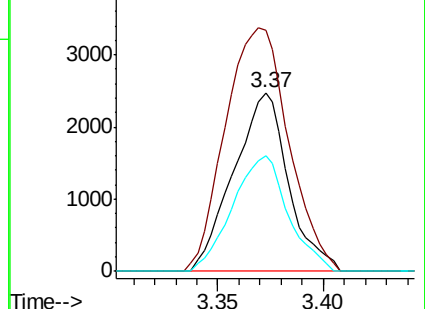
98 64.9 43.3 80.3



Abundance Ion 96.00 (95.70 to 96.70): VU040524.D (-616) (-)

Ion 61.00 (60.70 to 61.70): VU040524.D (-616) (-)

Ion 98.00 (97.70 to 98.70): VU040524.D (-616) (-)



#18

Methyl tert-butyl Ether

Concen: 1.141 ug/L

RT: 3.38 min Scan# 633

Delta R.T. -0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

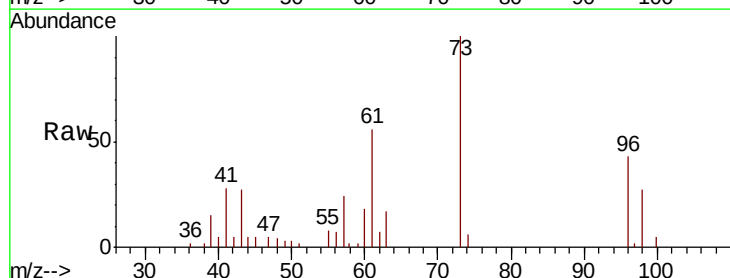
Tgt Ion: 73 Resp: 7649

Ion Ratio Lower Upper

73 100

43 43.2 18.2 27.2#

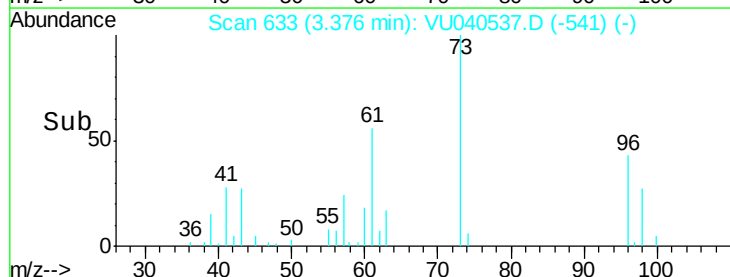
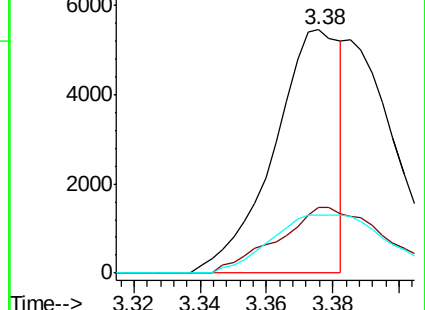
57 41.8 18.5 27.7#

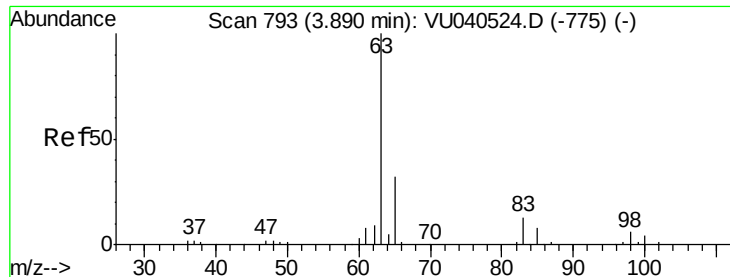


Abundance Ion 73.00 (72.70 to 73.70): VU040524.D (-616) (-)

Ion 43.00 (42.70 to 43.70): VU040524.D (-616) (-)

Ion 57.00 (56.70 to 57.70): VU040524.D (-616) (-)

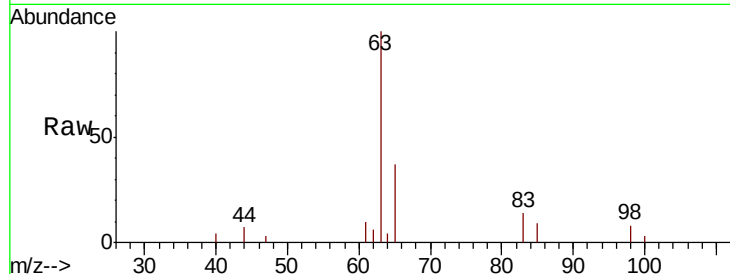




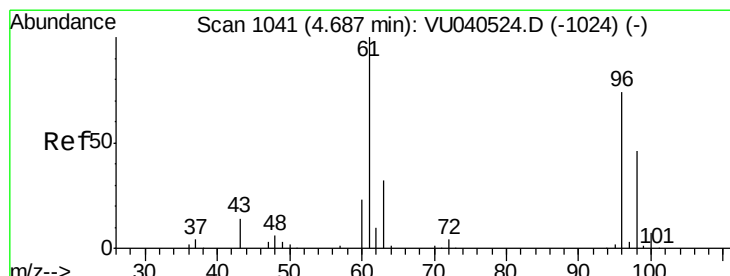
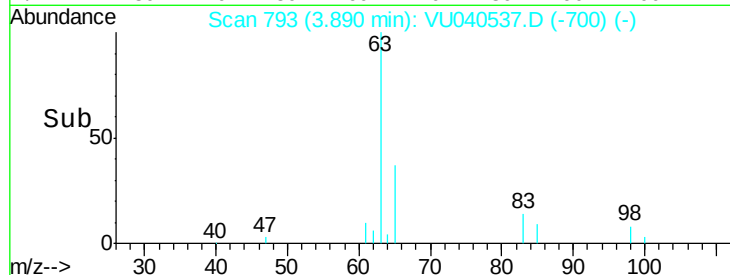
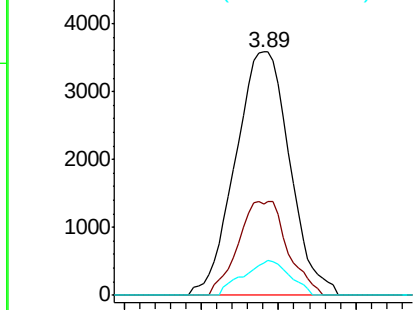
#19
 1,1-Dichloroethane
 Concen: 2.060 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-01

Tot Ion: 63 Resp: 8757
 Ion Ratio Lower Upper
 63 100
 65 37.5 22.6 42.0
 83 13.5 9.1 16.9

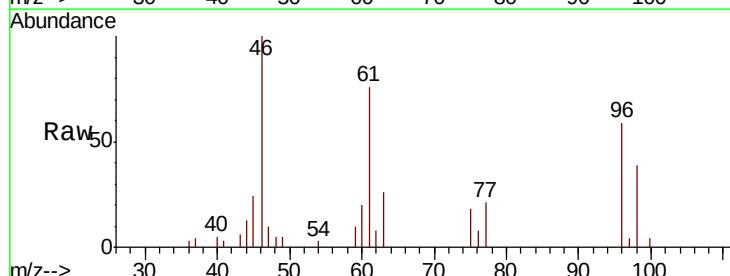


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

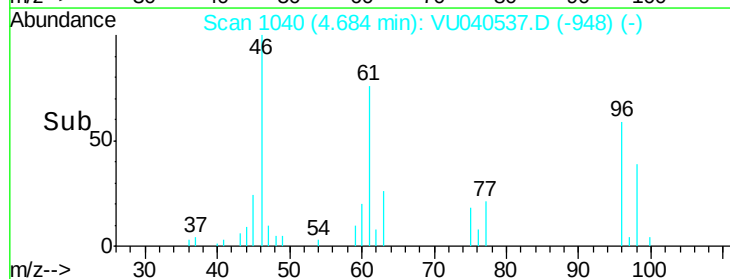
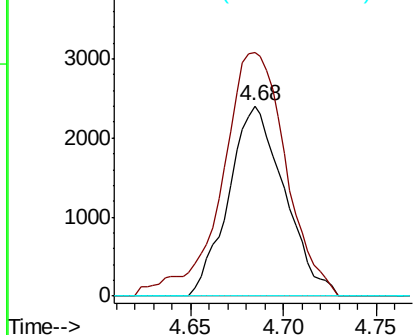


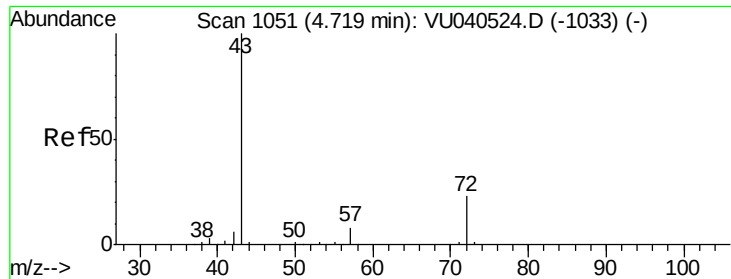
#20
 cis-1,2-Dichloroethene
 Concen: 2.203 ug/L
 RT: 4.68 min Scan# 1040
 Delta R.T. -0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

Tgt Ion: 96 Resp: 5061
 Ion Ratio Lower Upper
 96 100
 61 128.1 95.7 177.7
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 3.799 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

Instrument :

MSVOA_U

ClientSampleId :

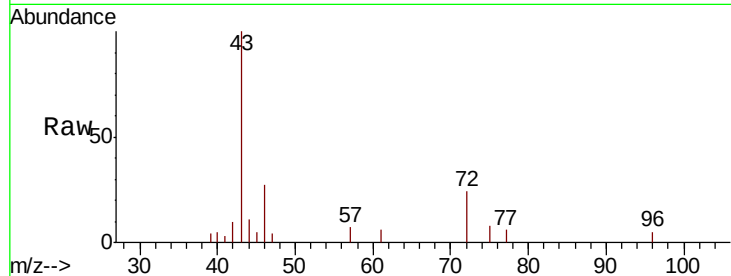
MDL-ME-SOIL-01

Tot Ion: 43 Resp: 8961

Ion Ratio Lower Upper

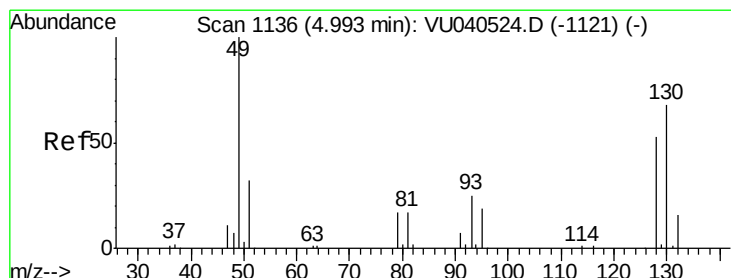
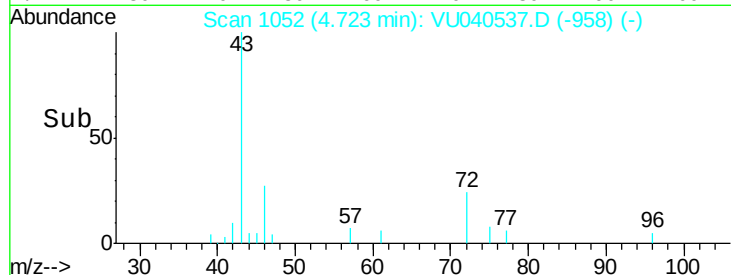
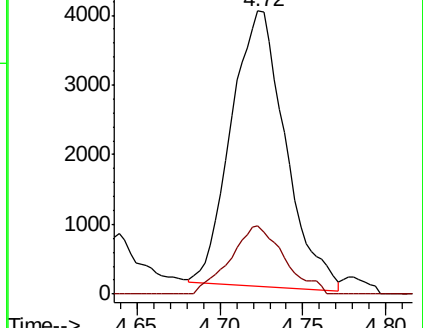
43 100

72 23.9 11.9 35.9



Abundance Ion 43.00 (42.70 to 43.70): VU040537.D (-958) (-)

Ion 72.00 (71.70 to 72.70): VU040537.D (-958) (-)



#23

Bromochloromethane

Concen: 2.172 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

Tgt Ion: 128 Resp: 2600

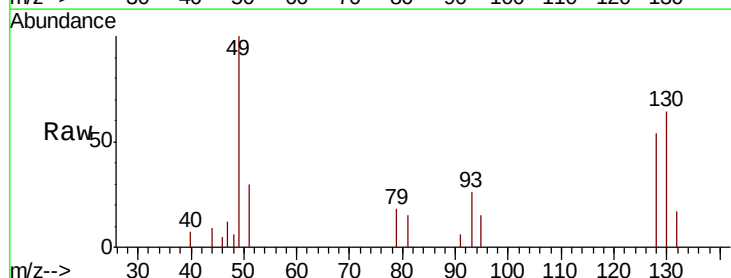
Ion Ratio Lower Upper

128 100

49 184.5 133.1 247.3

130 117.8 90.5 168.1

51 54.7 48.4 72.6

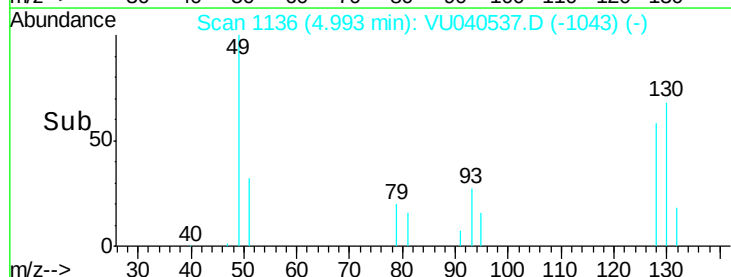
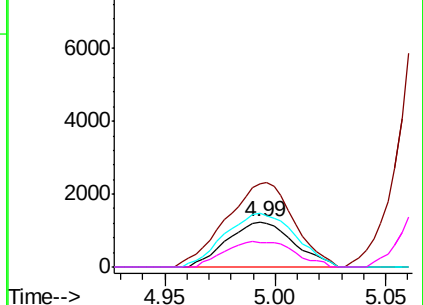


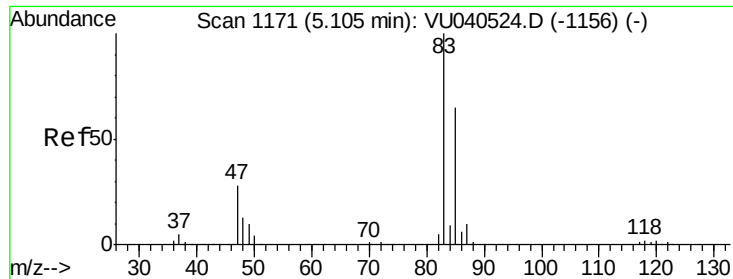
Abundance Ion 128.00 (127.70 to 128.70): VU040537.D (-1043) (-)

Ion 49.00 (48.70 to 49.70): VU040537.D (-1043) (-)

Ion 130.00 (129.70 to 130.70): VU040537.D (-1043) (-)

Ion 51.00 (50.70 to 51.70): VU040537.D (-1043) (-)

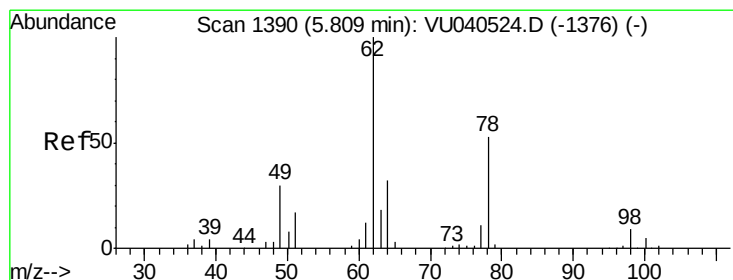
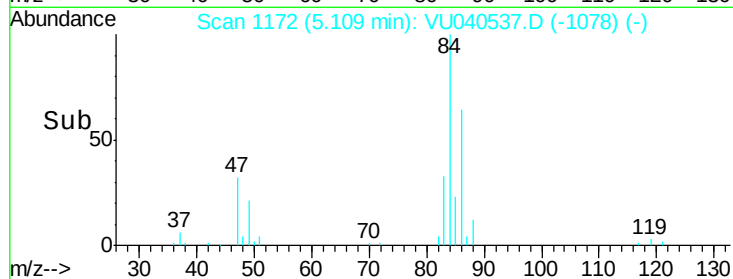
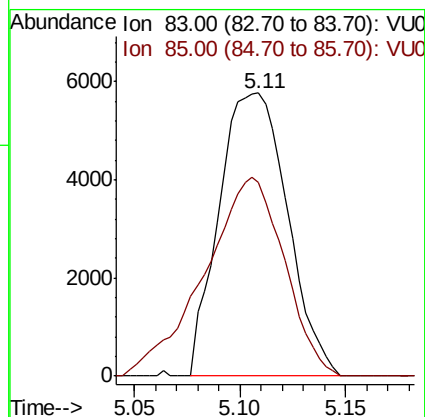
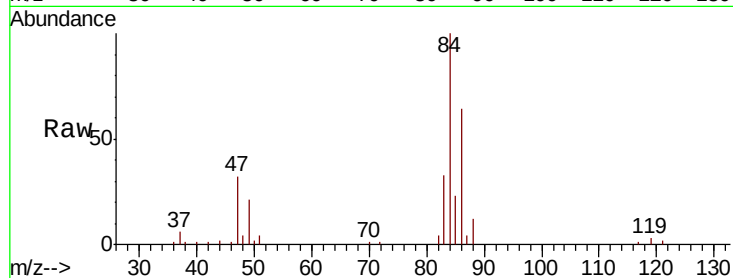




#25
Chloroform
Concen: 3.004 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040537.D
Acq: 06 Oct 2020 19:21

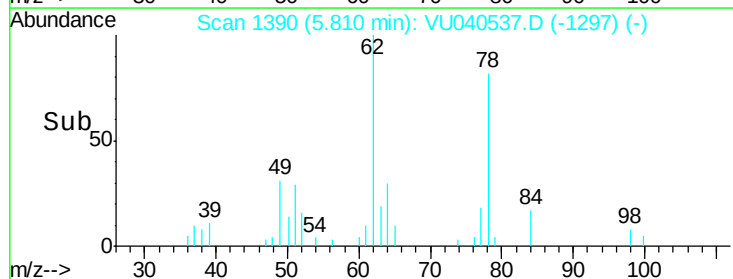
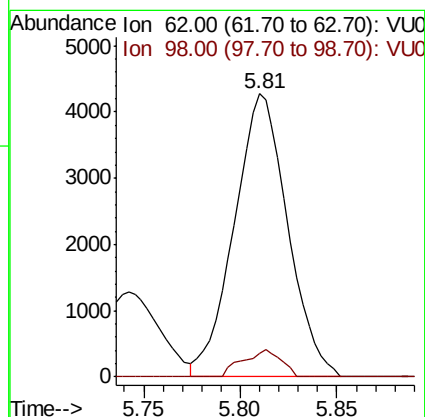
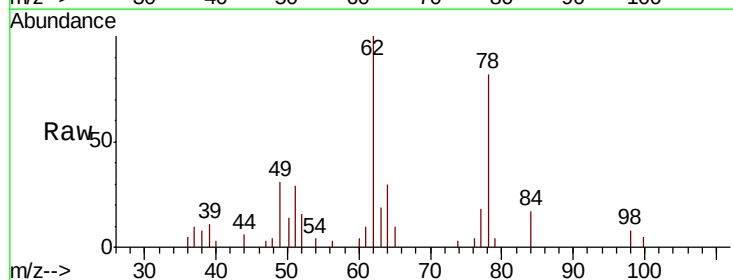
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-01

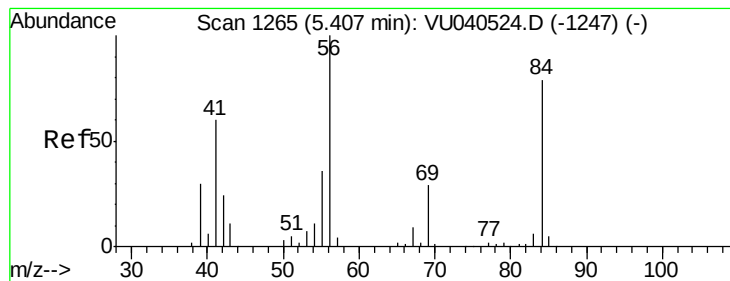
Tot Ion: 83 Resp: 13023
Ion Ratio Lower Upper
83 100
85 68.2 45.6 84.8



#27
1,2-Dichloroethane
Concen: 2.294 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU040537.D
Acq: 06 Oct 2020 19:21

Tgt Ion: 62 Resp: 8207
Ion Ratio Lower Upper
62 100
98 8.3 7.1 10.7





#29

Cyclohexane

Concen: 1.945 ug/L

RT: 5.40 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-01

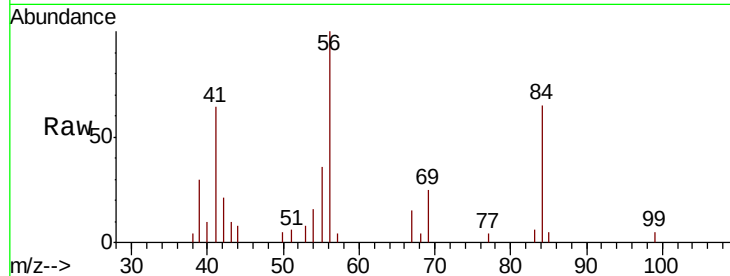
Tot Ion: 56 Resp: 7362

Ion Ratio Lower Upper

56 100

69 16.0 22.6 34.0#

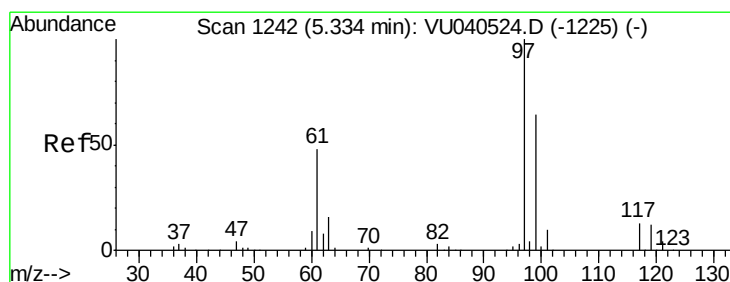
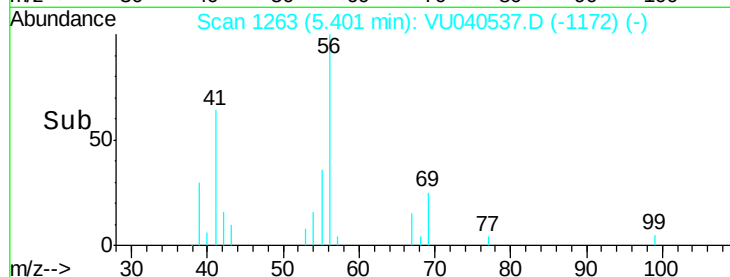
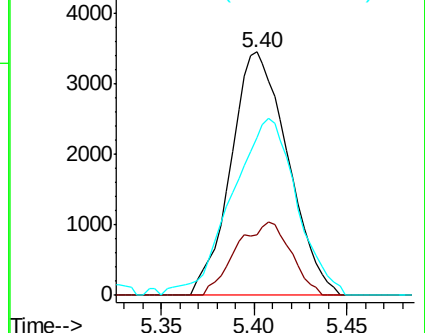
84 82.6 63.1 94.7



Abundance Ion 56.00 (55.70 to 56.70): VU040537.D (-1172) (-)

Ion 69.00 (68.70 to 69.70): VU040537.D (-1172) (-)

Ion 84.00 (83.70 to 84.70): VU040537.D (-1172) (-)



#30

1,1,1-Trichloroethane

Concen: 2.168 ug/L

RT: 5.33 min Scan# 1242

Delta R.T. 0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

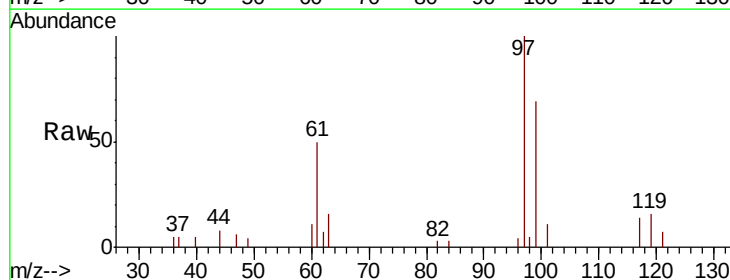
Tgt Ion: 97 Resp: 7871

Ion Ratio Lower Upper

97 100

99 68.6 51.0 76.6

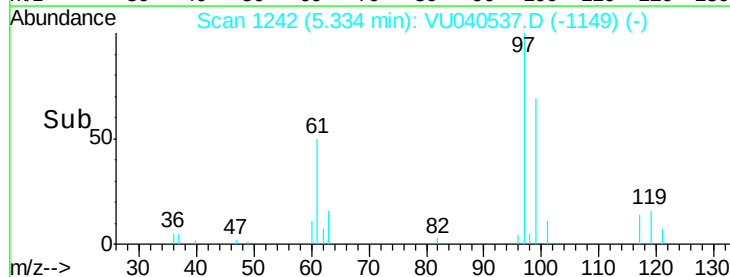
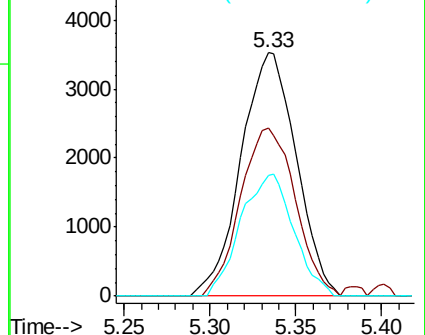
61 48.0 39.4 59.2

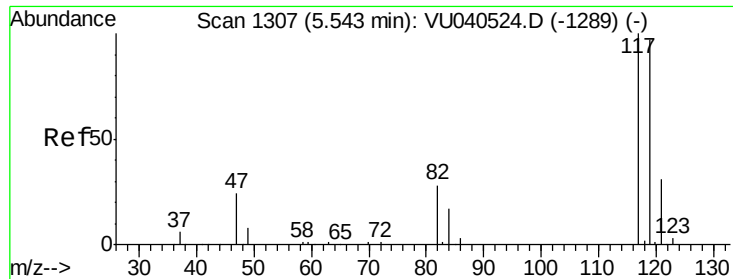


Abundance Ion 97.00 (96.70 to 97.70): VU040537.D (-1149) (-)

Ion 99.00 (98.70 to 99.70): VU040537.D (-1149) (-)

Ion 61.05 (60.75 to 61.75): VU040537.D (-1149) (-)





#31

Carbon tetrachloride

Concen: 2.067 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

Instrument :

MSVOA_U

ClientSampleId :

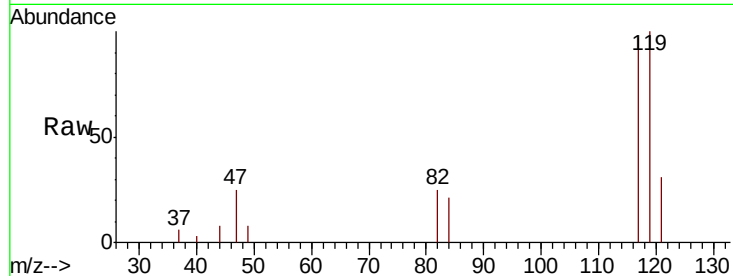
MDL-ME-SOIL-01

Tot Ion:117 Resp: 6489

Ion Ratio Lower Upper

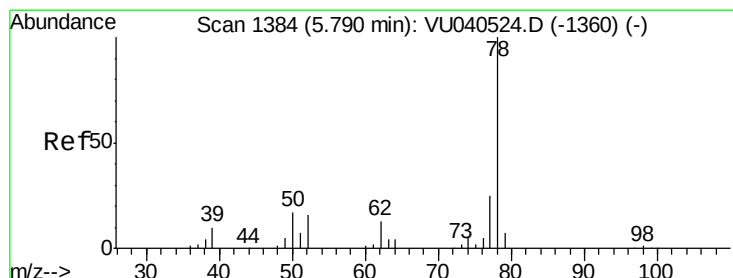
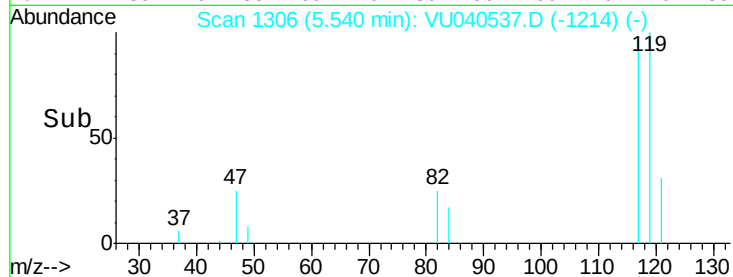
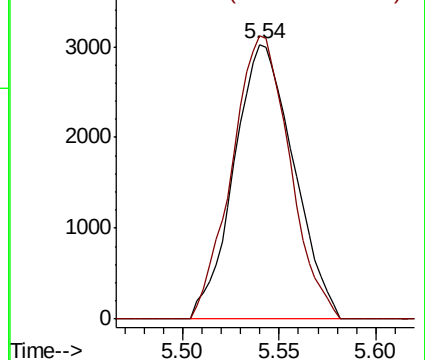
117 100

119 99.9 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: 2.181 ug/L

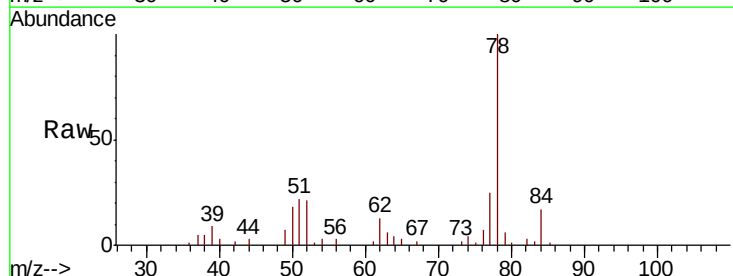
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

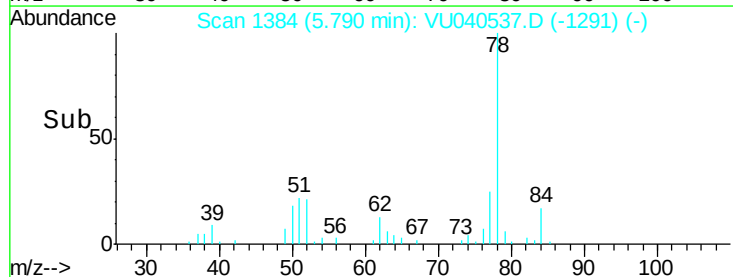
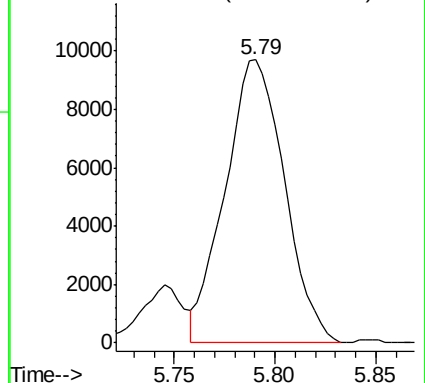
Lab File: VU040537.D

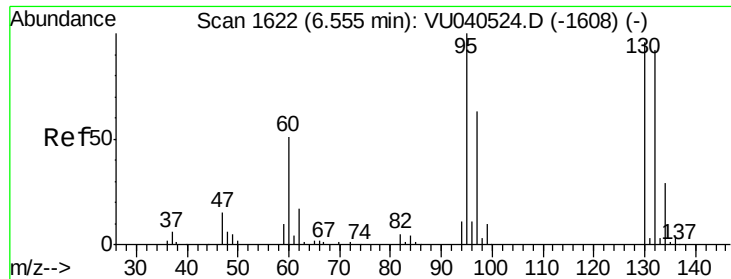
Acq: 06 Oct 2020 19:21

Tgt Ion: 78 Resp: 19922



Abundance Ion 78.00 (77.70 to 78.70): VU0

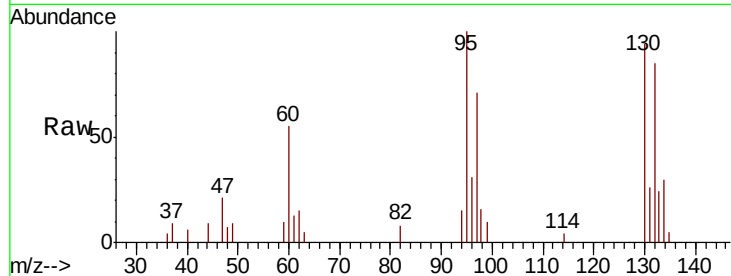




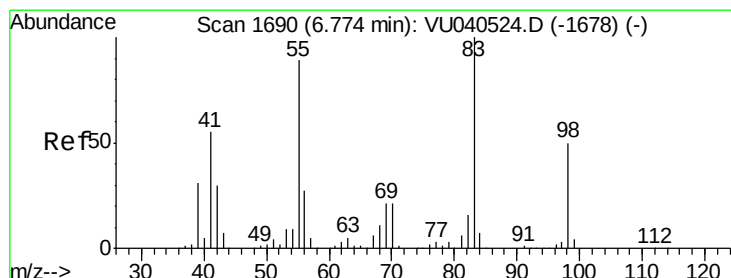
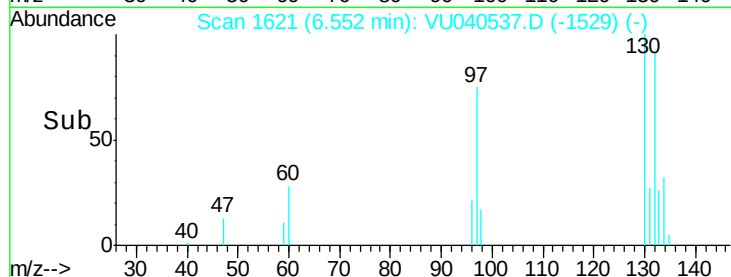
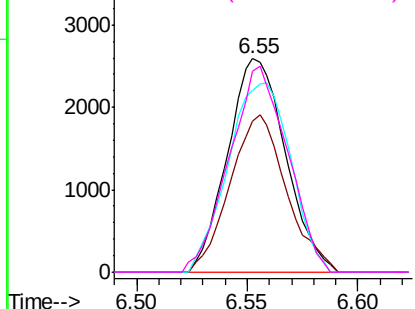
#34
 Trichloroethene
 Concen: 2.009 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-01

Tot Ion: 95 Resp: 4728
 Ion Ratio Lower Upper
 95 100
 97 70.7 44.3 82.3
 132 85.1 64.2 119.2
 130 94.0 67.3 125.1

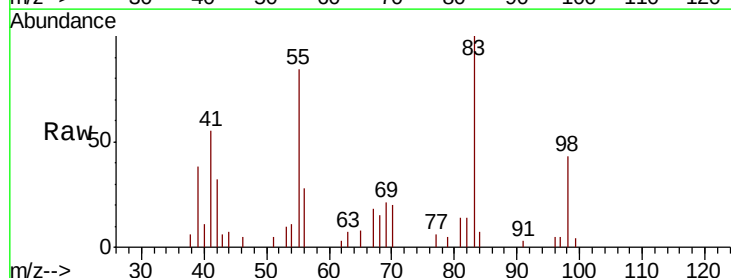


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

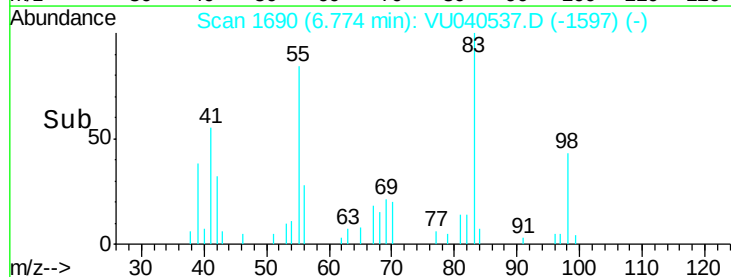
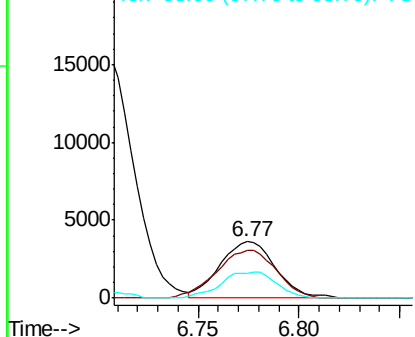


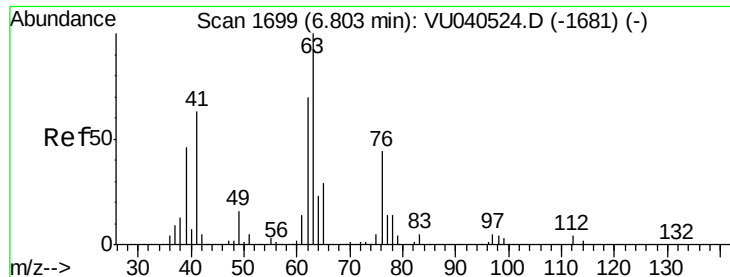
#35
 Methylcyclohexane
 Concen: 1.953 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

Tgt Ion: 83 Resp: 6989
 Ion Ratio Lower Upper
 83 100
 55 90.0 69.8 104.8
 98 0.0 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

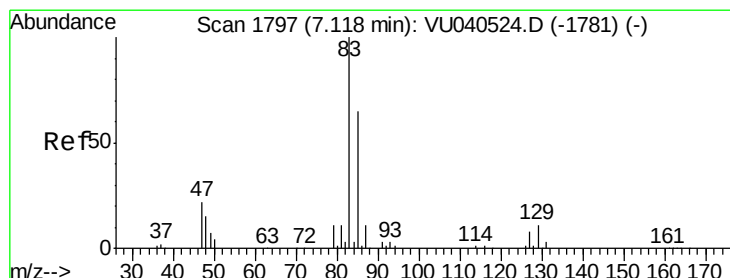
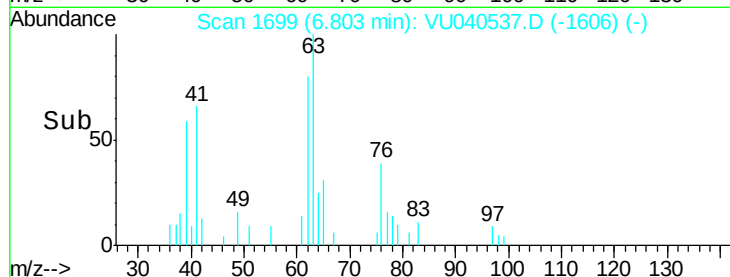
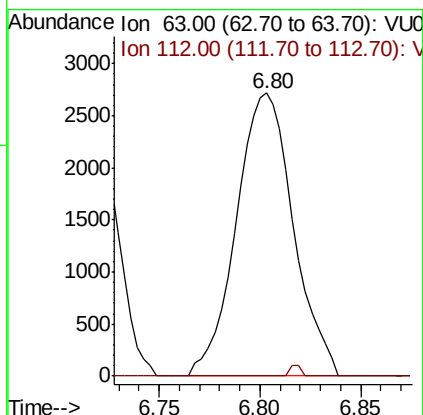
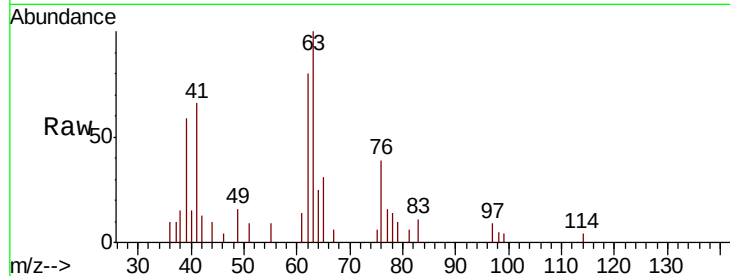




#37
 1,2-Dichloropropane
 Concen: 2.140 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

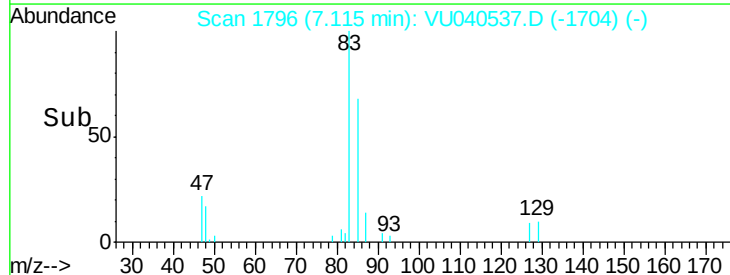
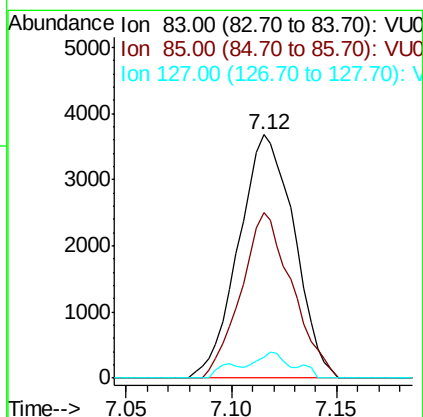
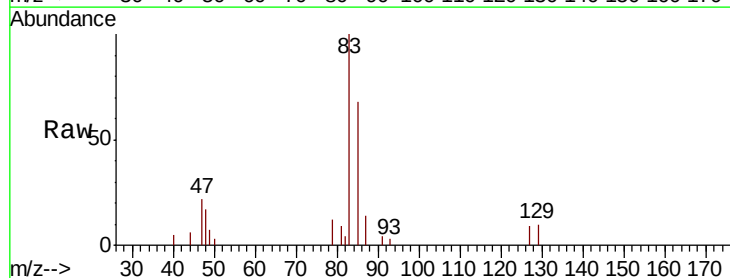
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-01

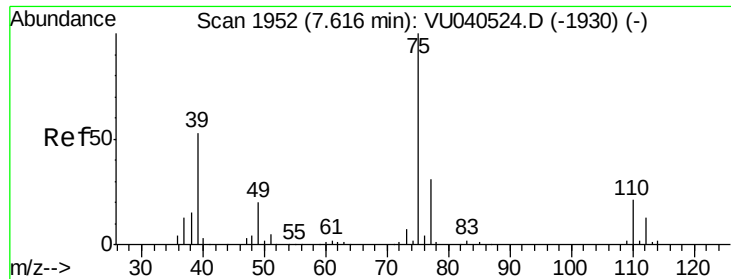
Tot Ion: 63 Resp: 5368
 Ion Ratio Lower Upper
 63 100
 112 0.7 3.5 5.3#



#38
 Bromodichloromethane
 Concen: 2.065 ug/L
 RT: 7.12 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

Tgt Ion: 83 Resp: 6729
 Ion Ratio Lower Upper
 83 100
 85 68.2 45.2 84.0
 127 8.8 6.7 10.1

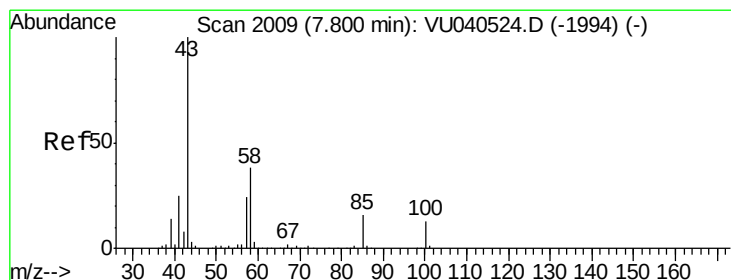
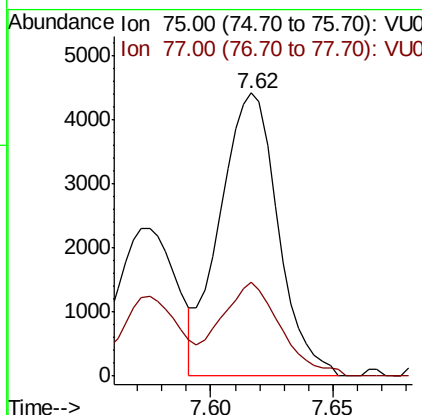
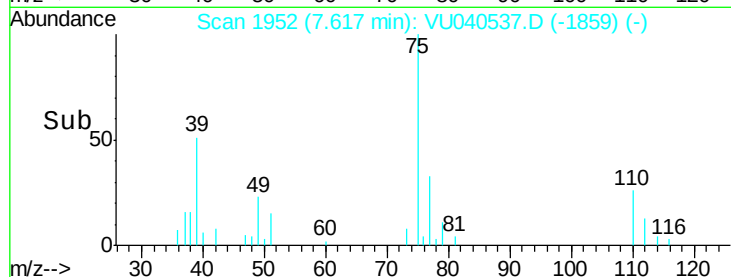
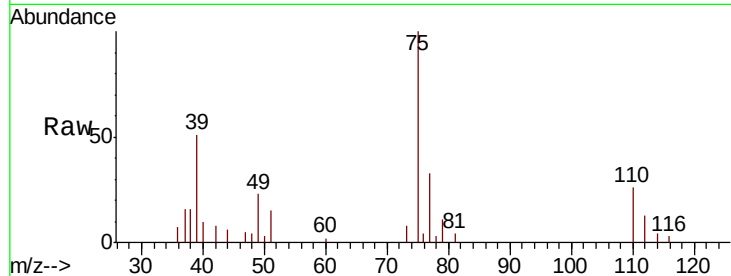




#39
 cis-1,3-Dichloropropene
 Concen: 1.996 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

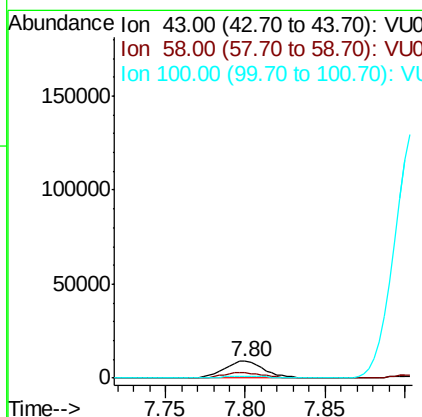
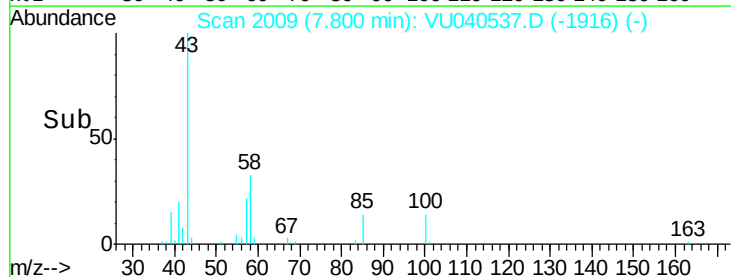
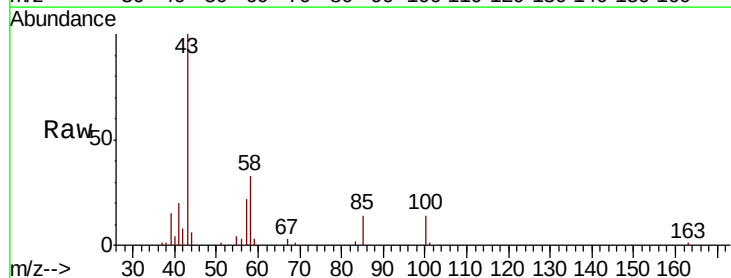
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-01

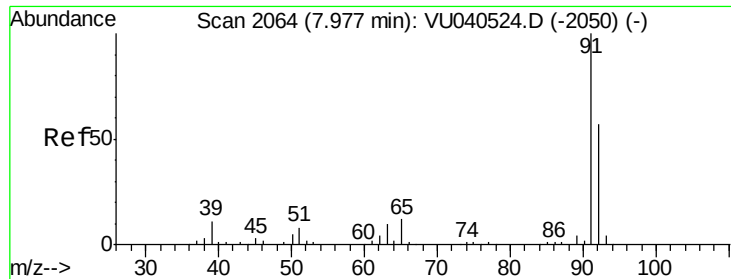
Tot Ion: 75 Resp: 7338
 Ion Ratio Lower Upper
 75 100
 77 33.0 21.4 39.8



#40
 4-Methyl-2-pentanone
 Concen: 3.884 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

Tgt Ion: 43 Resp: 15376
 Ion Ratio Lower Upper
 43 100
 58 34.3 29.7 44.5
 100 12.9 10.5 15.7





#42

Toluene

Concen: 2.147 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

Instrument :

MSVOA_U

ClientSampleId :

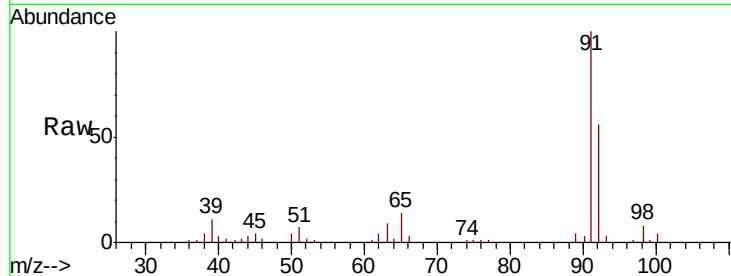
MDL-ME-SOIL-01

Tot Ion: 91 Resp: 20025

Ion Ratio Lower Upper

91 100

92 56.1 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU040524.D (-2050) (-)

Ion 92.00 (91.70 to 92.70): VU040524.D (-2050) (-)

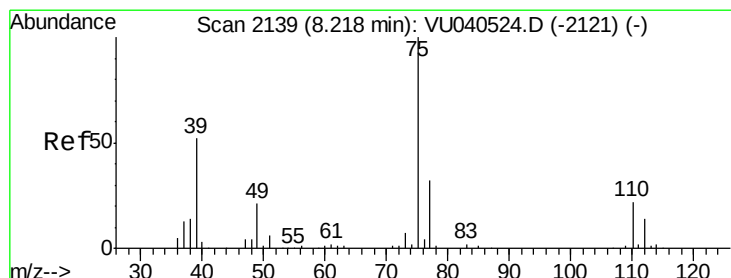
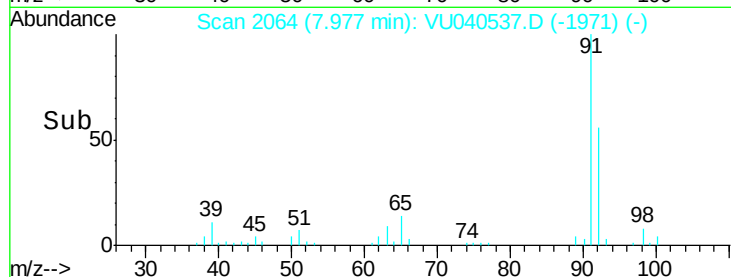
7.98

10000

5000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.133 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU040537.D

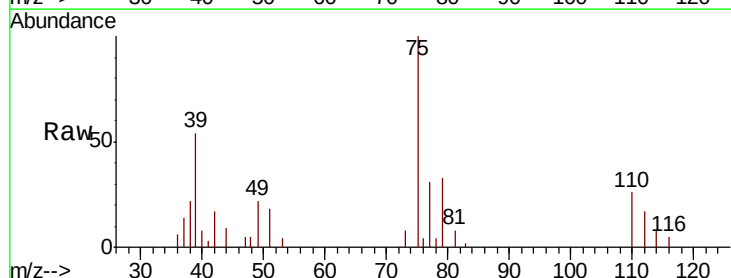
Acq: 06 Oct 2020 19:21

Tgt Ion: 75 Resp: 7897

Ion Ratio Lower Upper

75 100

77 31.2 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU040524.D (-2121) (-)

Ion 77.00 (76.70 to 77.70): VU040524.D (-2121) (-)

8.21

5000

4000

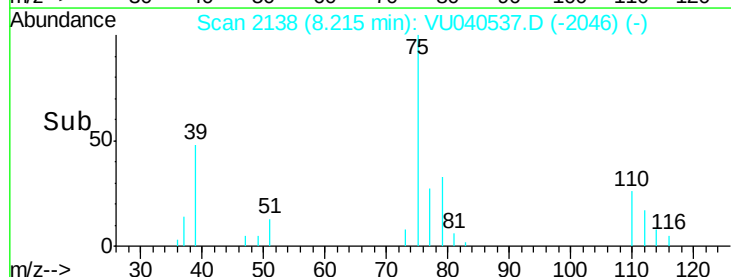
3000

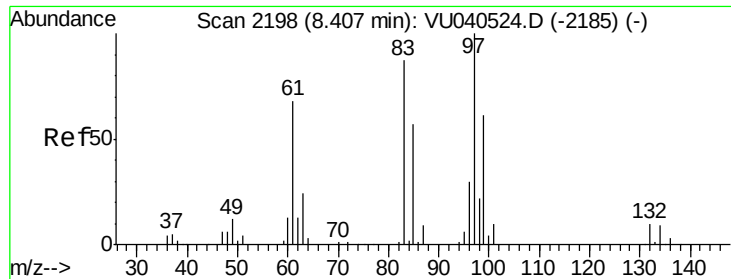
2000

1000

0

Time-->

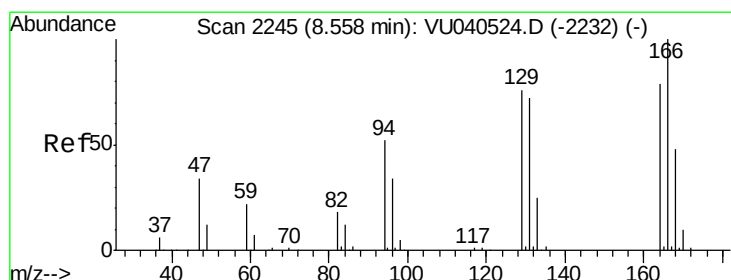
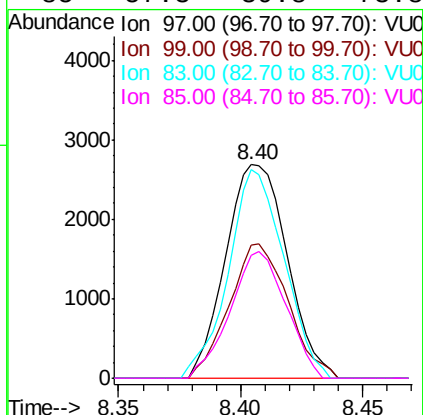
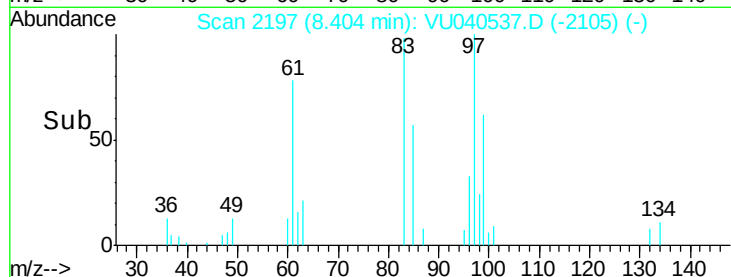
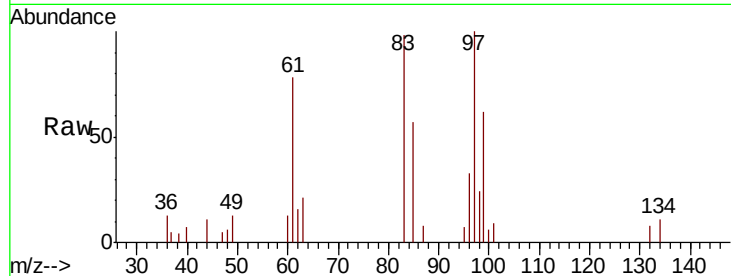




#45
1,1,2-Trichloroethane
Concen: 2.093 ug/L
RT: 8.40 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VU040537.D
Acq: 06 Oct 2020 19:21

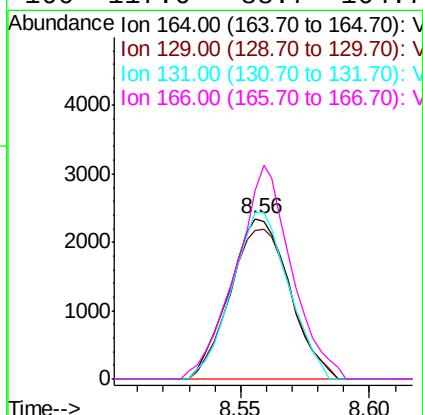
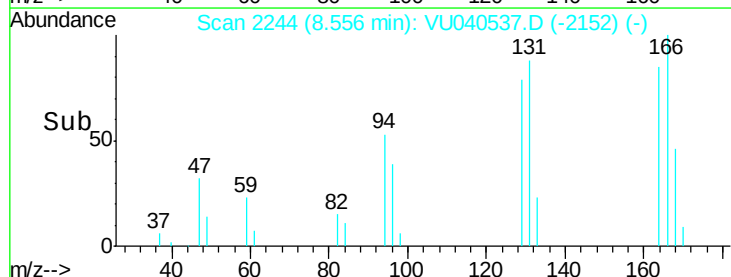
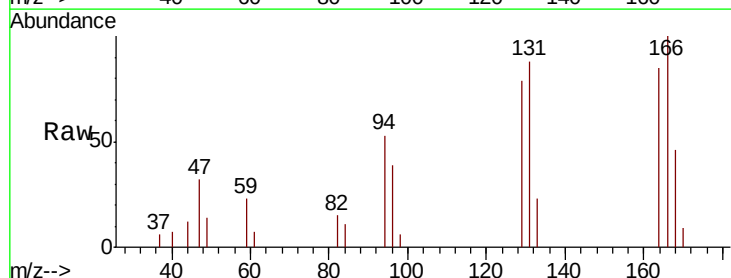
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-01

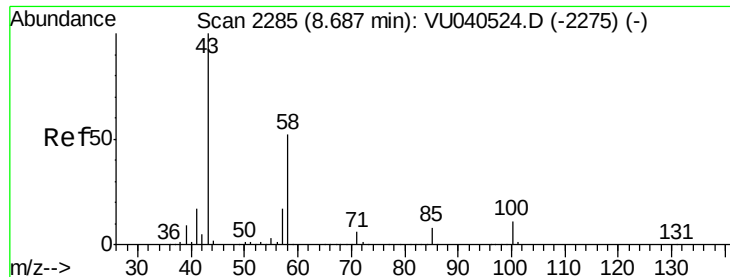
Tot Ion:	97	Resp:	4703
Ion	Ratio	Lower	Upper
97	100		
99	62.2	42.7	79.3
83	98.0	61.0	113.4
85	57.3	39.8	73.8



#46
Tetrachloroethene
Concen: 2.249 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.00 min
Lab File: VU040537.D
Acq: 06 Oct 2020 19:21

Tgt Ion:	164	Resp:	3824
Ion	Ratio	Lower	Upper
164	100		
129	93.0	67.4	125.2
131	103.6	63.8	118.6
166	117.6	88.7	164.7

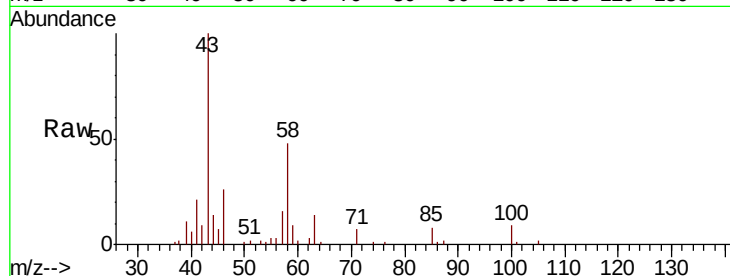




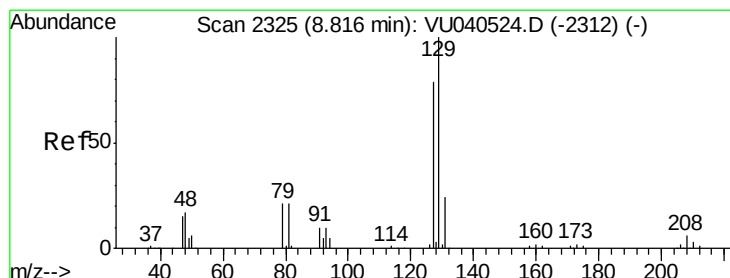
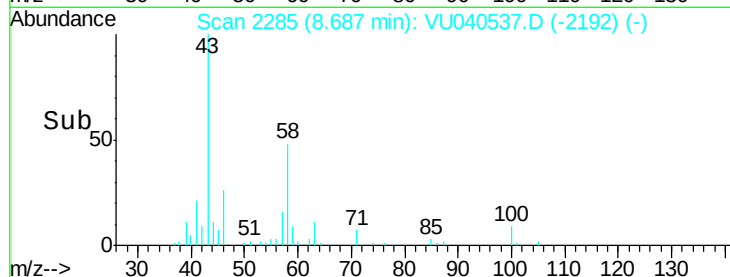
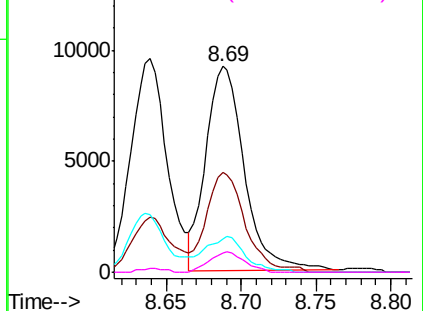
#48
2-Hexanone
Concen: 5.135 ug/L
RT: 8.69 min Scan# 2285
Delta R.T. 0.00 min
Lab File: VU040537.D
Acq: 06 Oct 2020 19:21

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-01

Tot Ion: 43 Resp: 16521
Ion Ratio Lower Upper
43 100
58 48.4 40.6 60.8
57 15.8 14.3 21.5
100 8.9 8.5 12.7

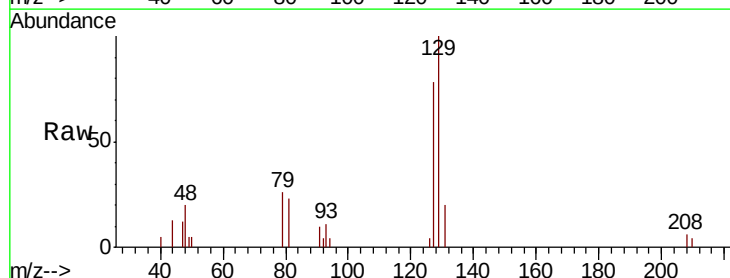


Abundance Ion 43.00 (42.70 to 43.70): VU040537.D (-2192) (-)
Ion 58.00 (57.70 to 58.70): VU040537.D (-2192) (-)
Ion 57.00 (56.70 to 57.70): VU040537.D (-2192) (-)
Ion 100.00 (99.70 to 100.70): VU040537.D (-2192) (-)

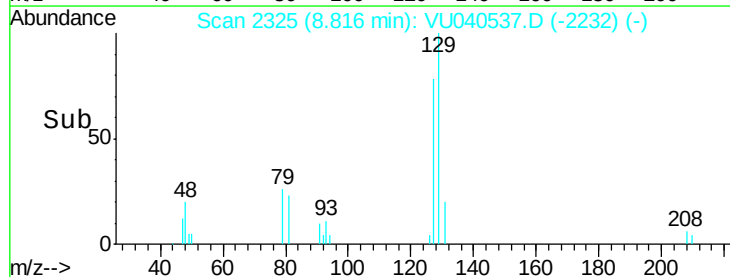
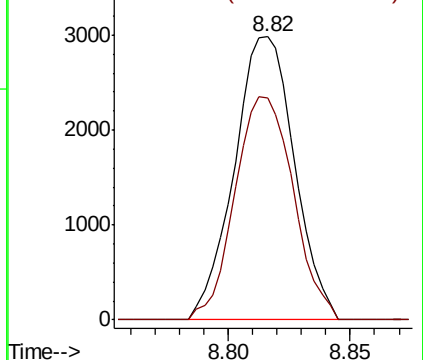


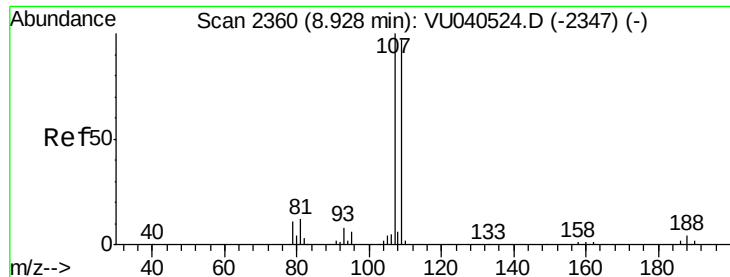
#49
Dibromochloromethane
Concen: 2.080 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU040537.D
Acq: 06 Oct 2020 19:21

Tgt Ion: 129 Resp: 5105
Ion Ratio Lower Upper
129 100
127 78.4 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): VU040537.D (-2232) (-)
Ion 127.00 (126.70 to 127.70): VU040537.D (-2232) (-)

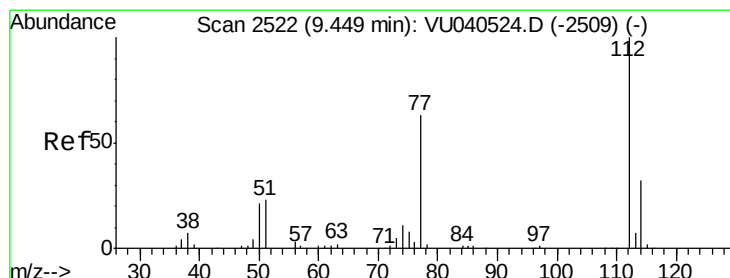
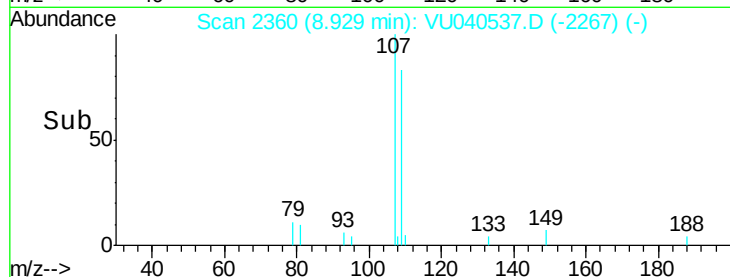
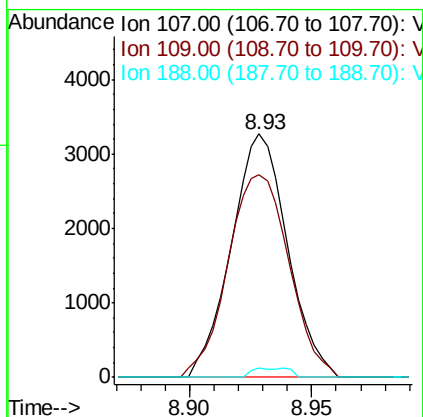
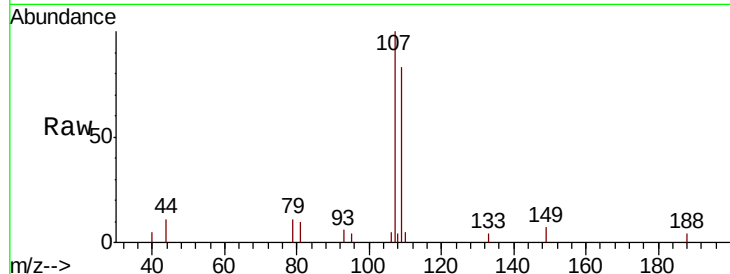




#50
 1,2-Dibromoethane
 Concen: 2.189 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

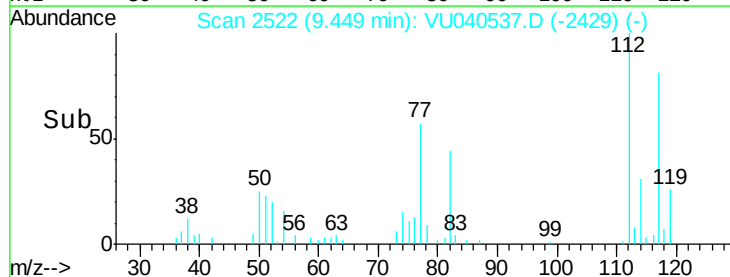
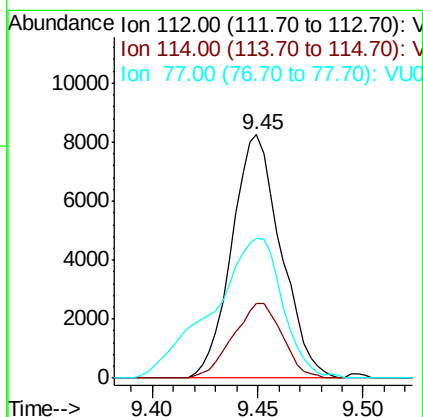
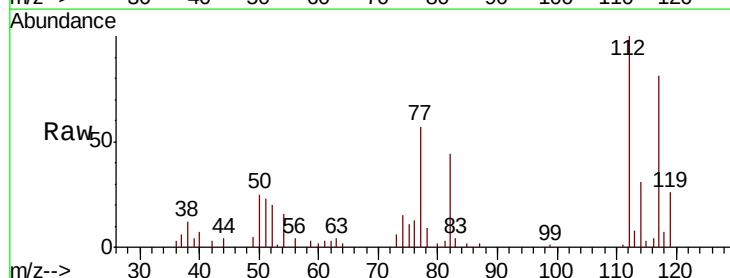
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-01

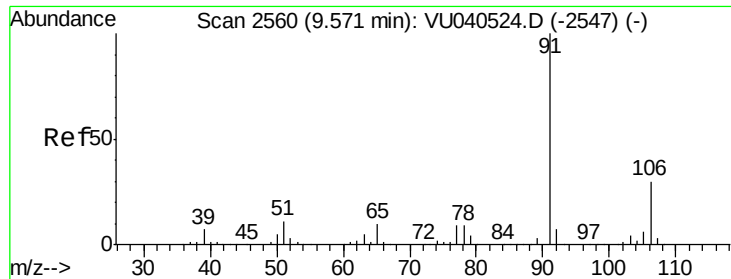
Tot Ion:107 Resp: 5216
 Ion Ratio Lower Upper
 107 100
 109 83.4 67.8 125.8
 188 3.7 2.8 4.2



#51
 Chlorobenzene
 Concen: 2.182 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

Tgt Ion:112 Resp: 13351
 Ion Ratio Lower Upper
 112 100
 114 30.9 22.1 41.1
 77 57.4 50.4 75.6





#52

Ethylbenzene

Concen: 1.975 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

Instrument :

MSVOA_U

ClientSampleId :

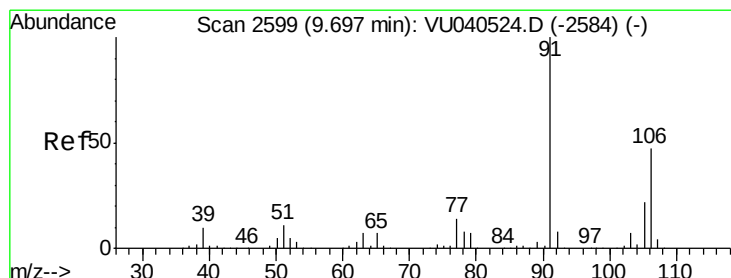
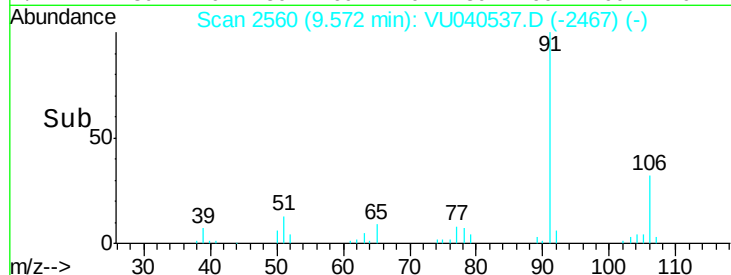
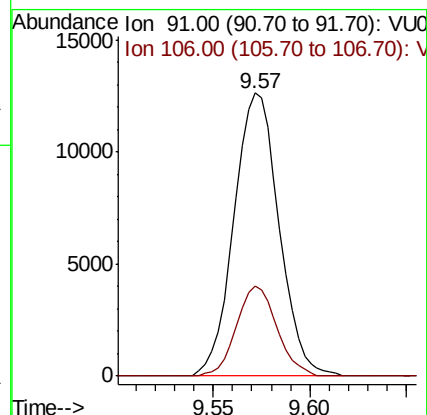
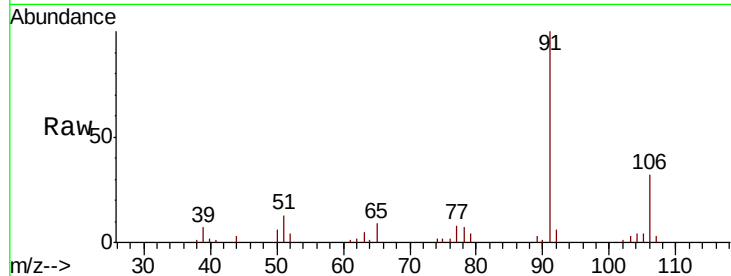
MDL-ME-SOIL-01

Tot Ion: 91 Resp: 20449

Ion Ratio Lower Upper

91 100

106 31.7 20.9 38.9



#53

m,p-Xylene

Concen: 1.853 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040537.D

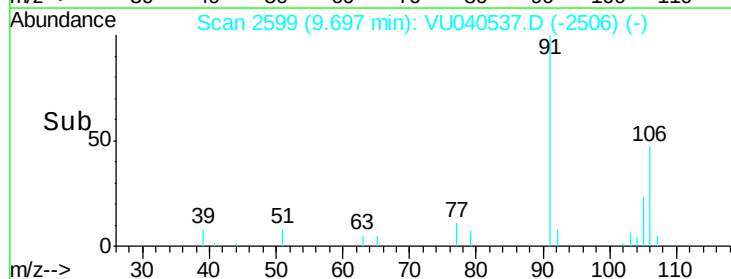
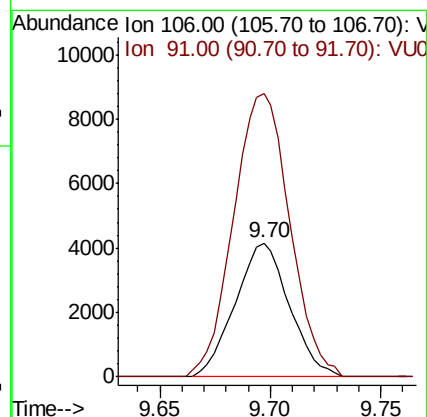
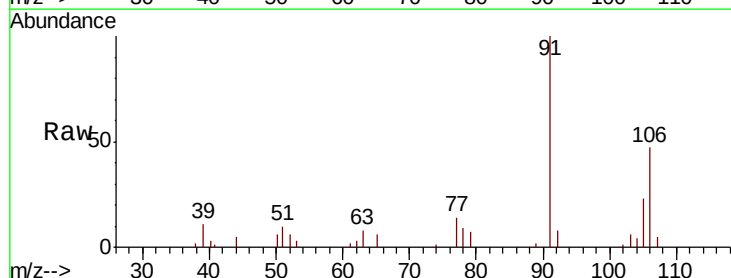
Acq: 06 Oct 2020 19:21

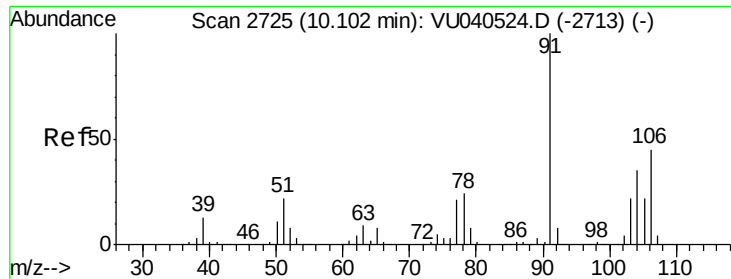
Tgt Ion: 106 Resp: 7065

Ion Ratio Lower Upper

106 100

91 210.8 150.1 278.7





#54

o-xylene

Concen: 1.776 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

Instrument :

MSVOA_U

ClientSampleId :

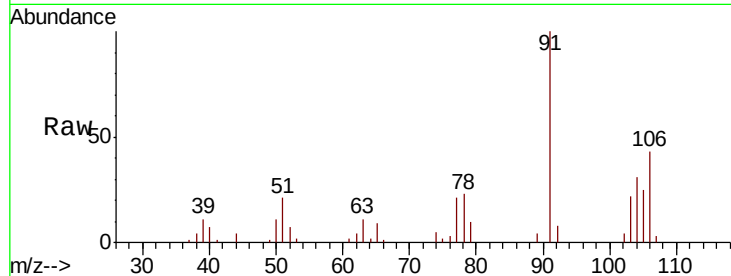
MDL-ME-SOIL-01

Tot Ion:106 Resp: 6442

Ion Ratio Lower Upper

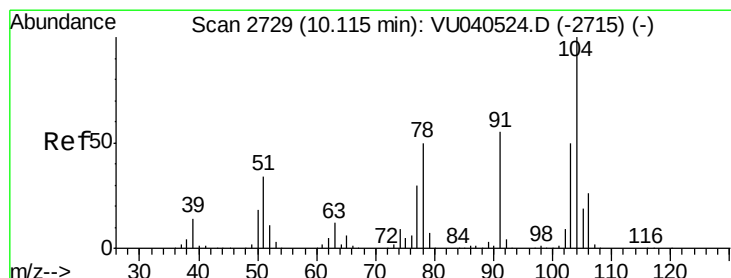
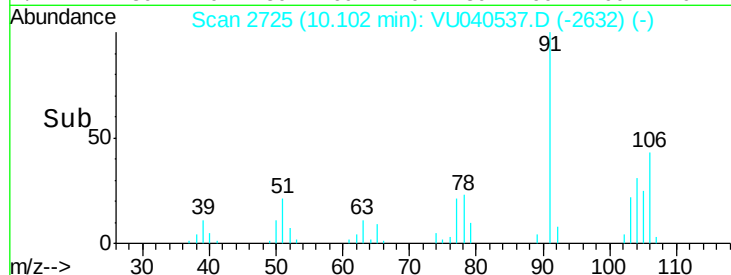
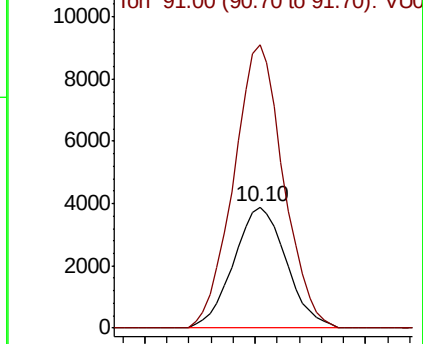
106 100

91 234.0 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.641 ug/L

RT: 10.12 min Scan# 2729

Delta R.T. 0.00 min

Lab File: VU040537.D

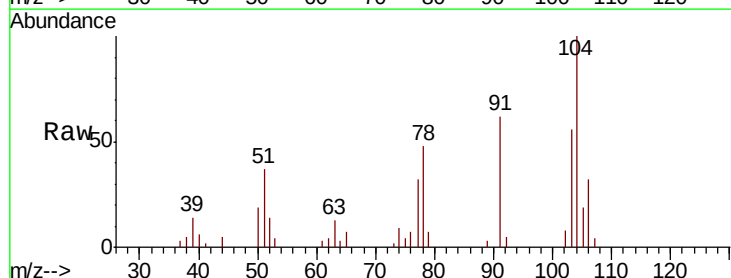
Acq: 06 Oct 2020 19:21

Tgt Ion:104 Resp: 10483

Ion Ratio Lower Upper

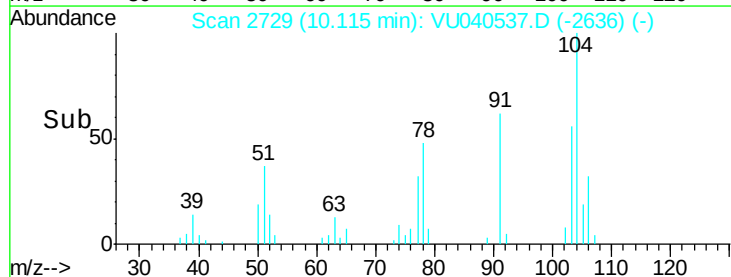
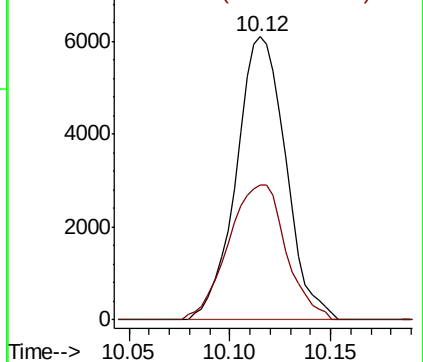
104 100

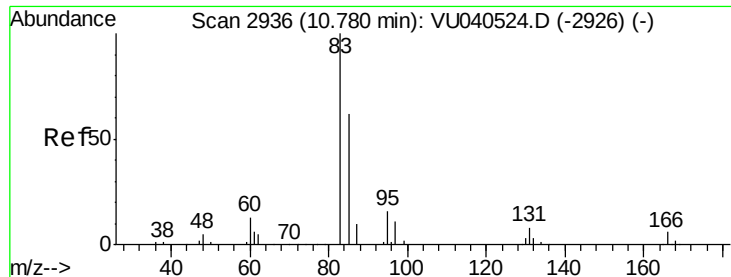
78 47.6 35.2 65.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

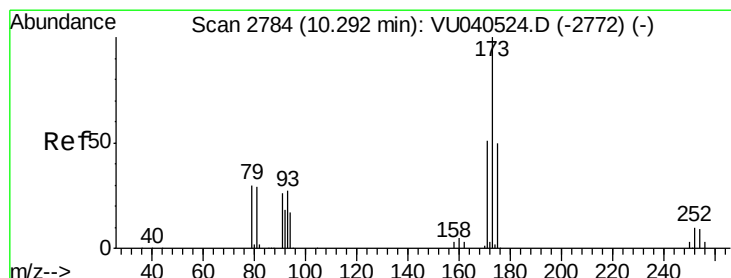
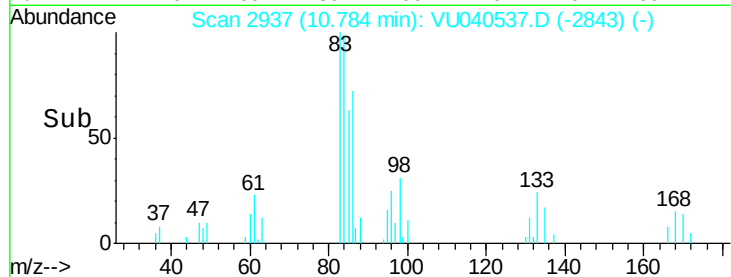
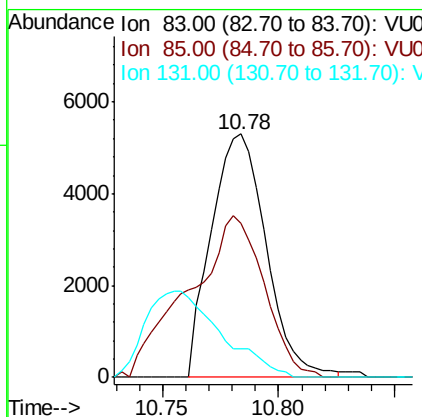
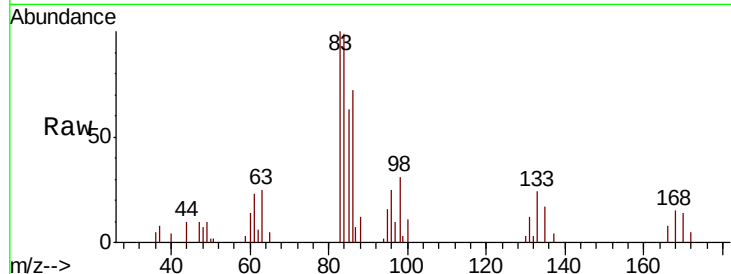




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.199 ug/L
 RT: 10.78 min Scan# 2937
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

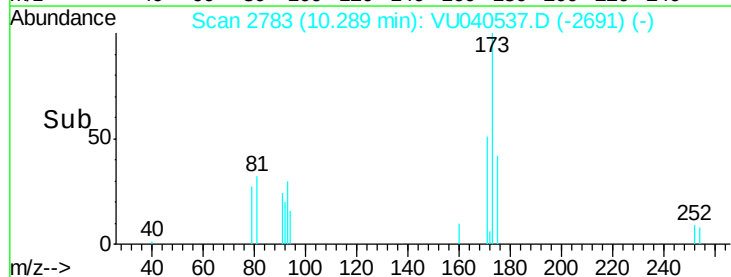
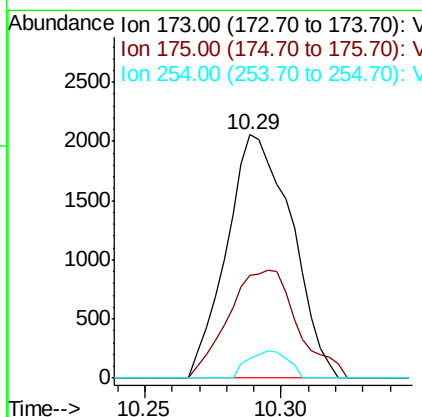
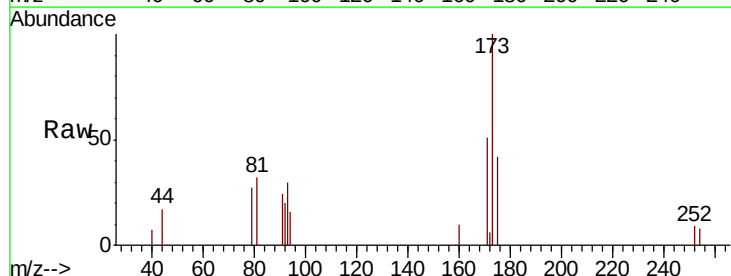
Instrument :
 MSVOA_U
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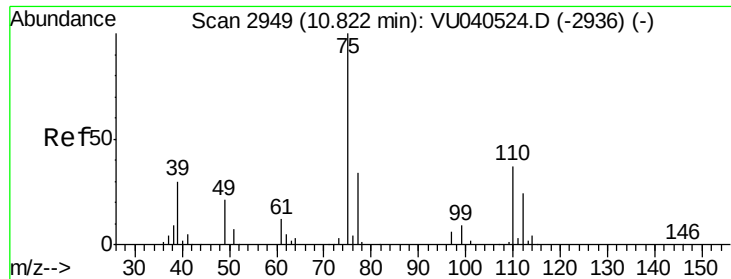
Tot Ion: 83 Resp: 8741
 Ion Ratio Lower Upper
 83 100
 85 63.2 44.2 82.2
 131 11.6 7.1 10.7#



#59
 Bromoform
 Concen: 2.106 ug/L
 RT: 10.29 min Scan# 2783
 Delta R.T. -0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

Tgt Ion: 173 Resp: 3399
 Ion Ratio Lower Upper
 173 100
 175 47.0 38.5 57.7
 254 6.9 7.0 10.6#

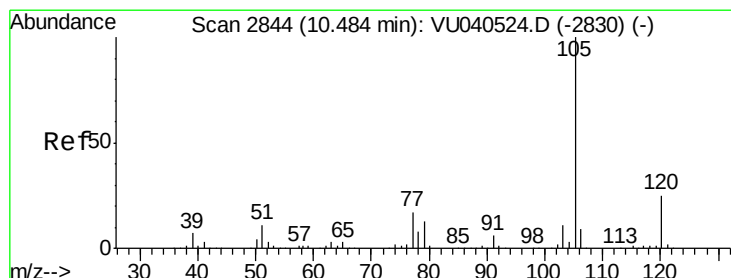
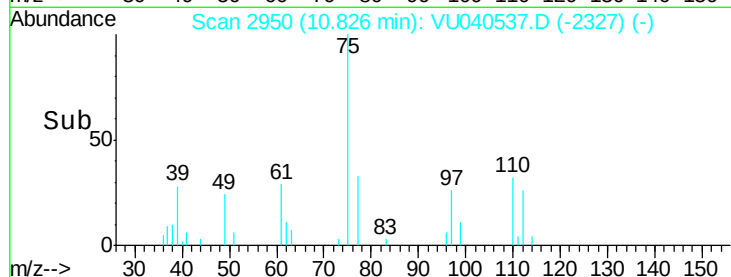
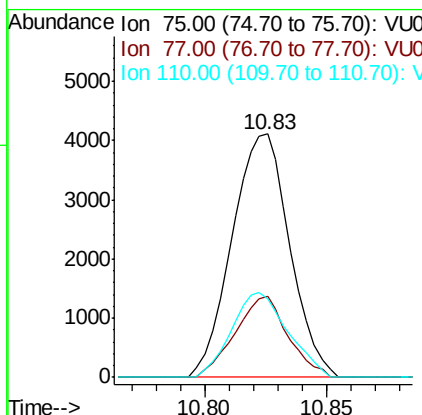
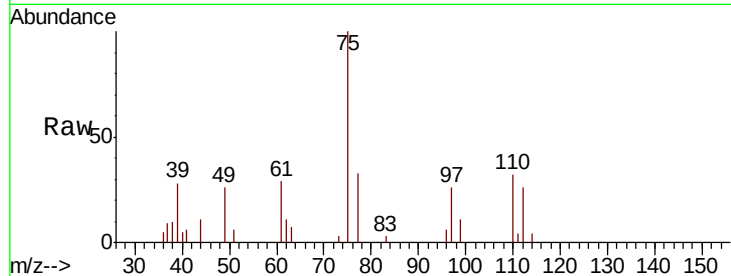




#60
 1,2,3-Trichloropropane
 Concen: 2.248 ug/L
 RT: 10.83 min Scan# 2950
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

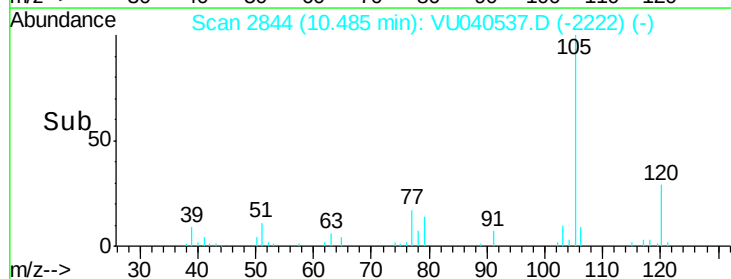
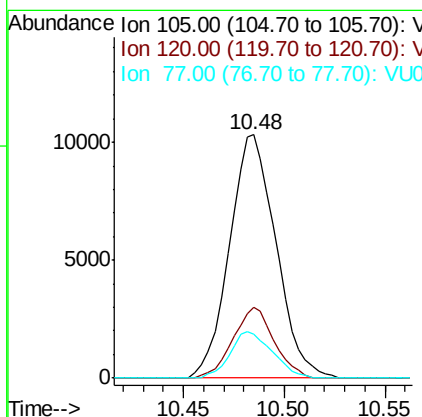
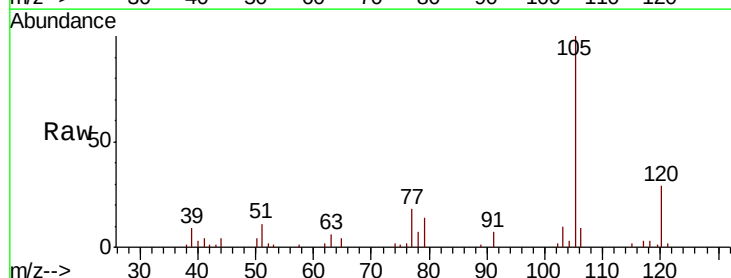
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-01

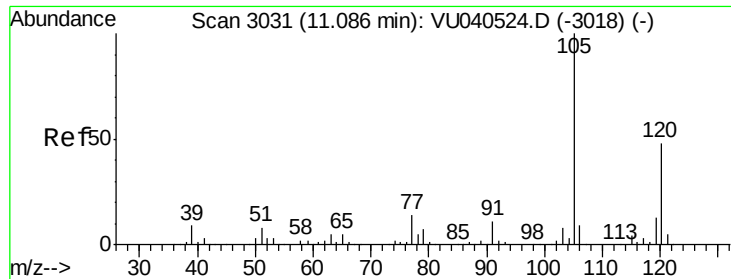
Tot Ion: 75 Resp: 6725
 Ion Ratio Lower Upper
 75 100
 77 30.5 26.4 39.6
 110 34.2 30.1 45.1



#61
 Isopropylbenzene
 Concen: 1.879 ug/L
 RT: 10.48 min Scan# 2844
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

Tgt Ion: 105 Resp: 16613
 Ion Ratio Lower Upper
 105 100
 120 25.9 20.7 31.1
 77 17.4 13.8 20.8

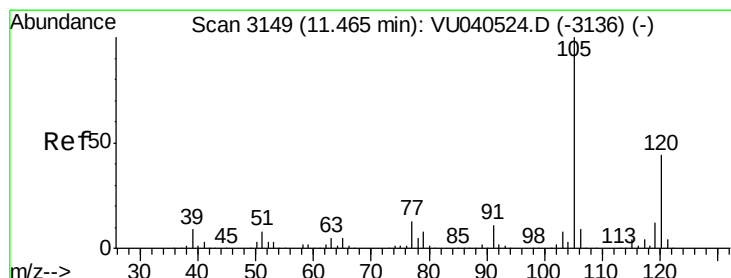
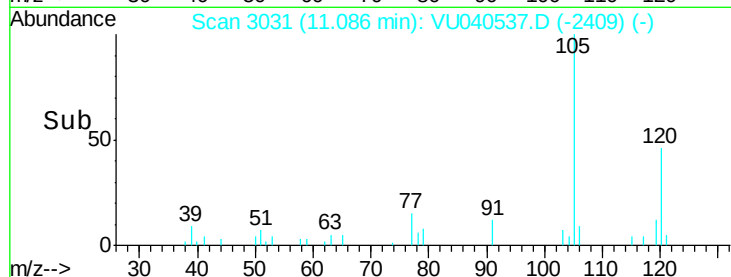
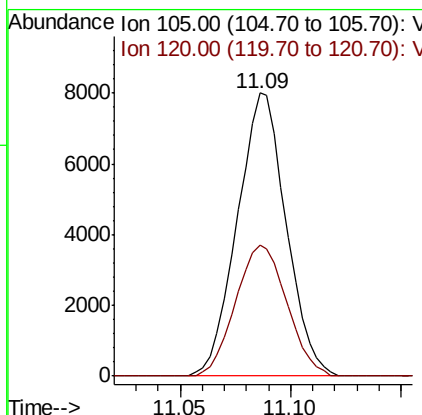
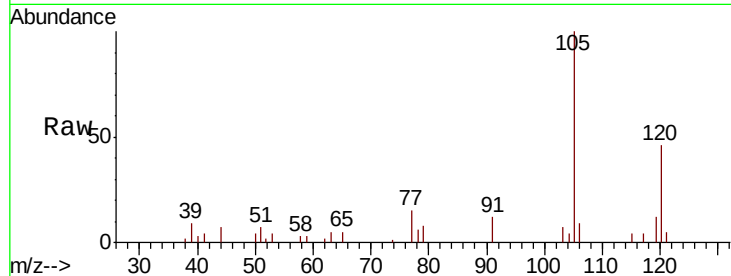




#62
 1,3,5-Trimethylbenzene
 Concen: 1.690 ug/L
 RT: 11.09 min Scan# 3031
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

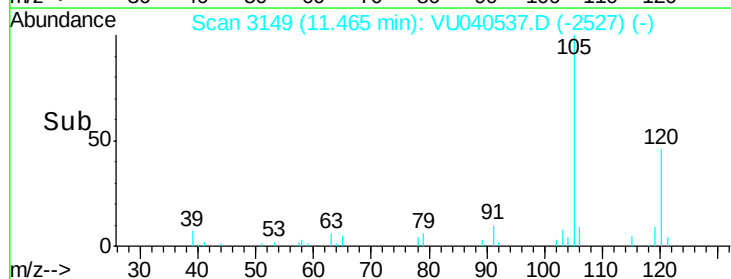
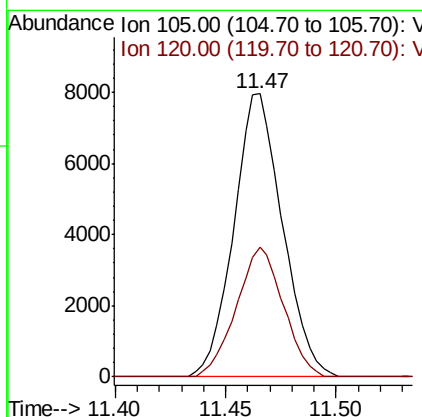
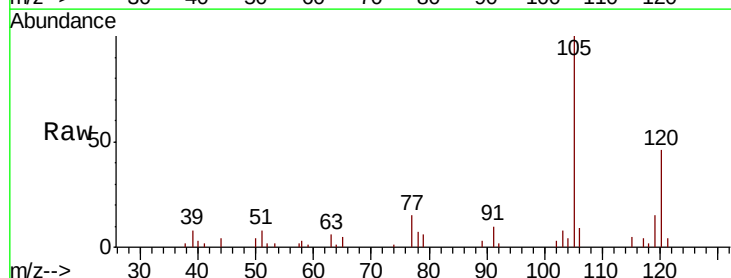
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-01

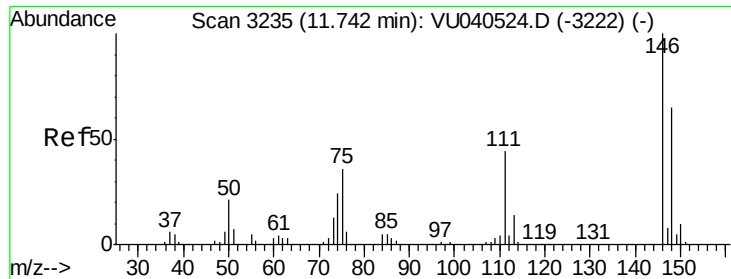
Tot Ion:105 Resp: 12280
 Ion Ratio Lower Upper
 105 100
 120 48.4 38.6 58.0



#63
 1,2,4-Trimethylbenzene
 Concen: 1.657 ug/L
 RT: 11.47 min Scan# 3149
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

Tgt Ion:105 Resp: 12212
 Ion Ratio Lower Upper
 105 100
 120 44.3 35.7 53.5

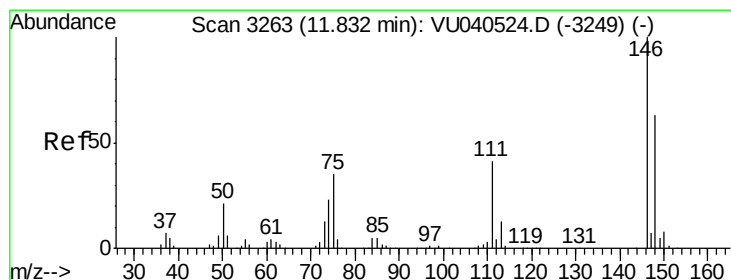
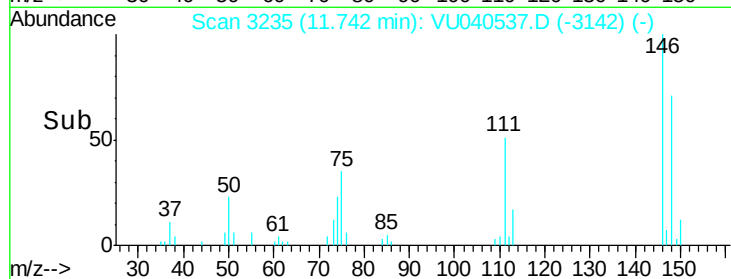
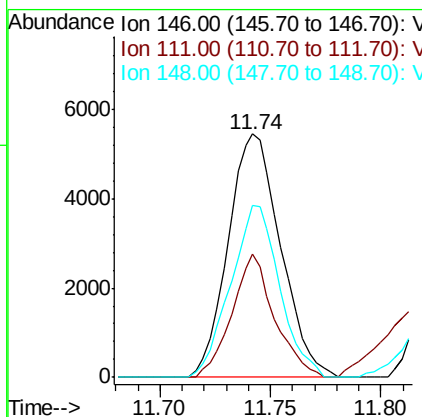
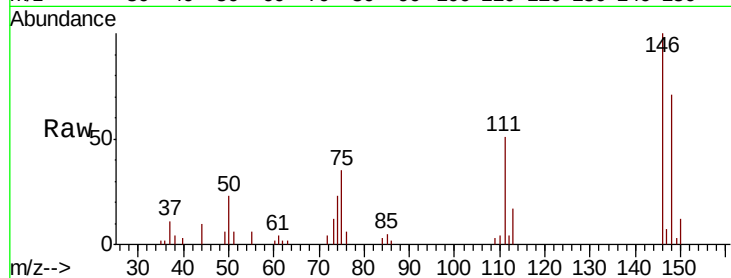




#64
 1,3-Dichlorobenzene
 Concen: 2.081 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

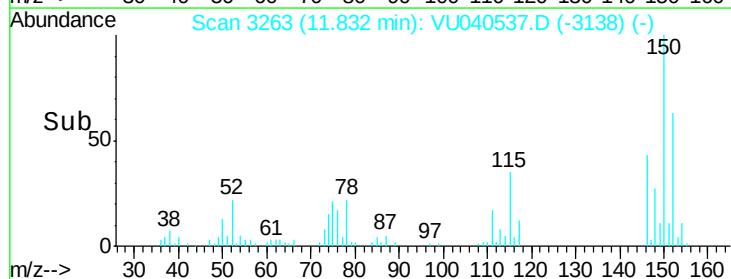
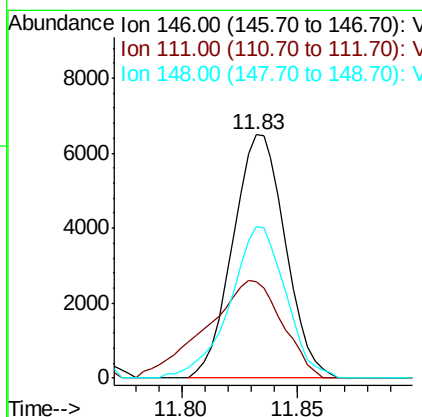
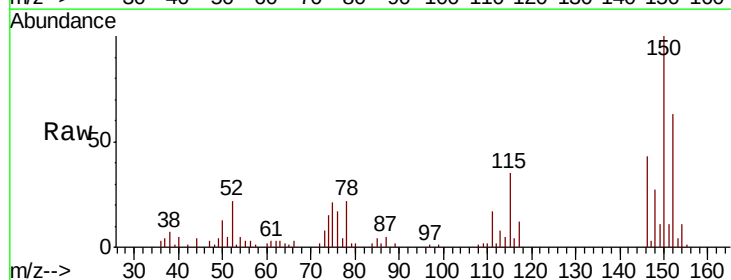
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-01

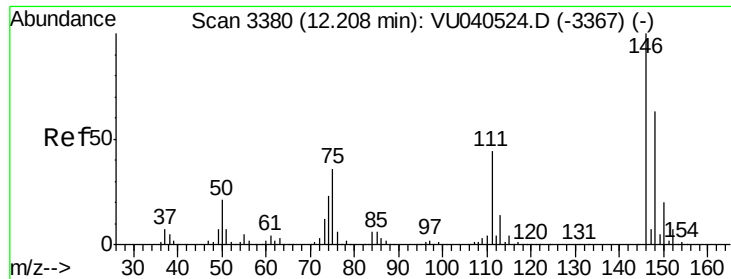
Tot Ion:146 Resp: 8972
 Ion Ratio Lower Upper
 146 100
 111 50.8 30.8 57.2
 148 70.7 45.4 84.2



#65
 1,4-Dichlorobenzene
 Concen: 2.255 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

Tgt Ion:146 Resp: 10210
 Ion Ratio Lower Upper
 146 100
 111 39.4 28.7 53.3
 148 62.2 44.1 81.9

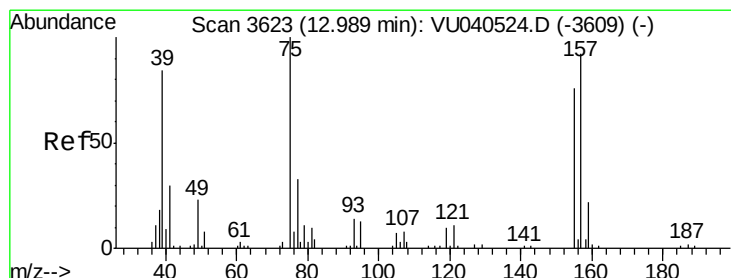
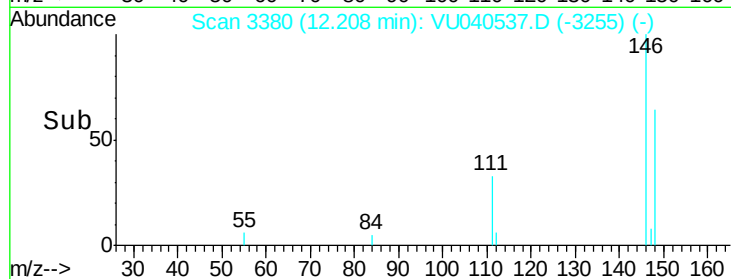
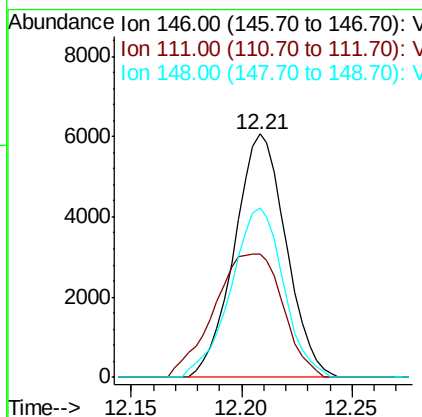
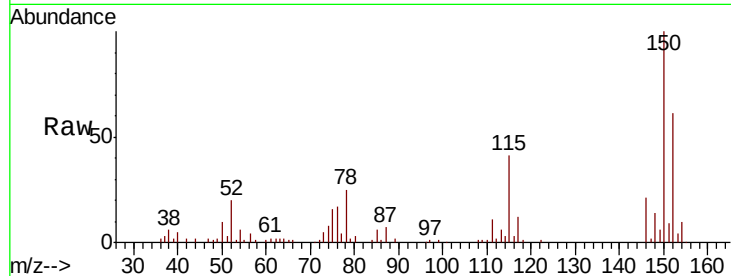




#67
 1,2-Dichlorobenzene
 Concen: 2.288 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

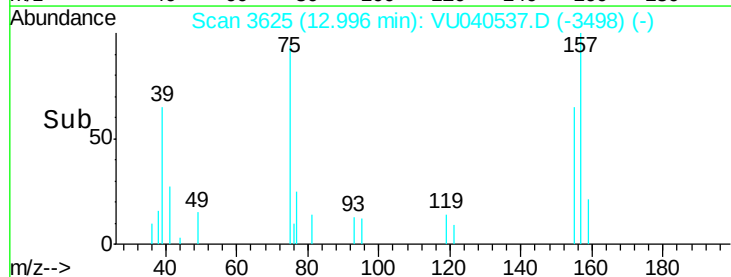
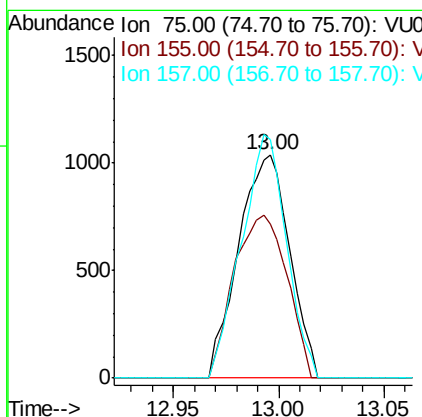
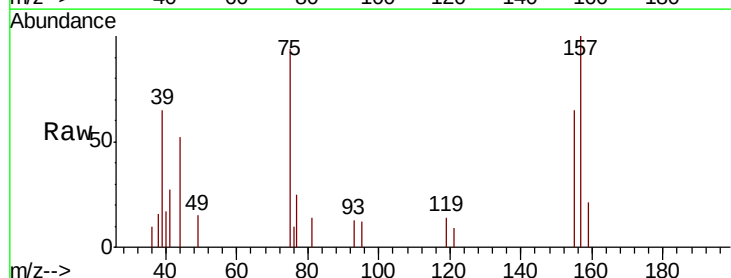
Instrument :
 MSVOA_U
 ClientSampleId :
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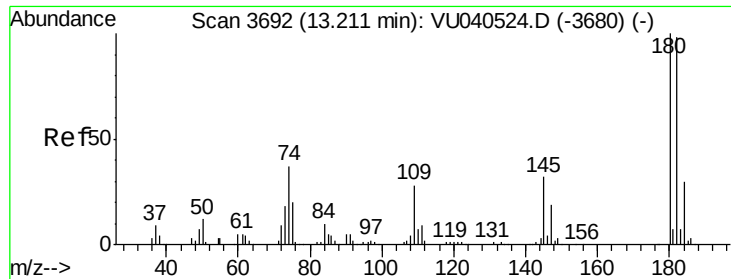
Tot Ion:146 Resp: 9882
 Ion Ratio Lower Upper
 146 100
 111 50.7 35.7 53.5
 148 69.4 50.6 75.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.071 ug/L
 RT: 13.00 min Scan# 3625
 Delta R.T. 0.01 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

Tgt Ion: 75 Resp: 1740
 Ion Ratio Lower Upper
 75 100
 155 69.0 61.0 91.6
 157 106.7 73.5 110.3

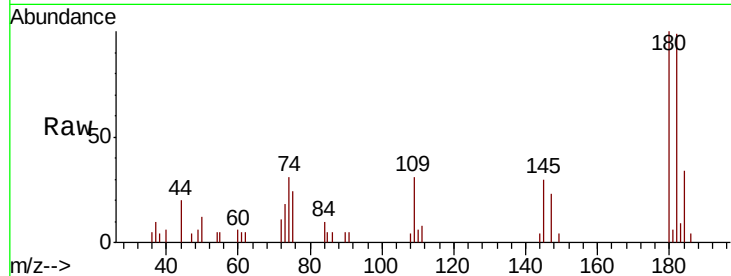




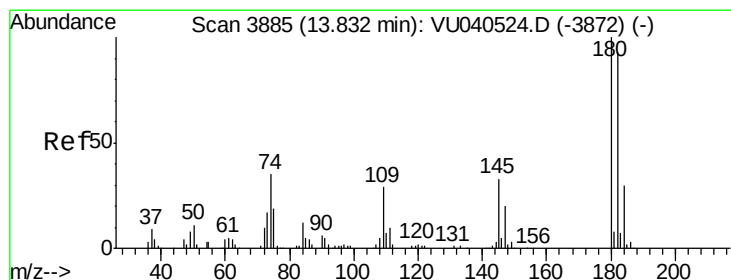
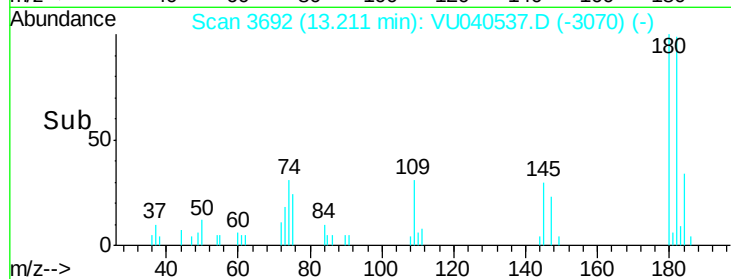
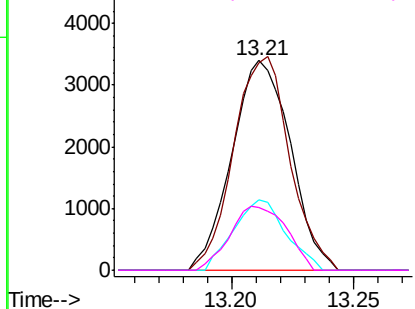
#69
 1,3,5-Trichlorobenzene
 Concen: 2.004 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-01

Tot Ion:180 Resp: 5661
 Ion Ratio Lower Upper
 180 100
 182 97.2 76.9 115.3
 184 30.0 24.2 36.2
 145 29.5 25.4 38.2

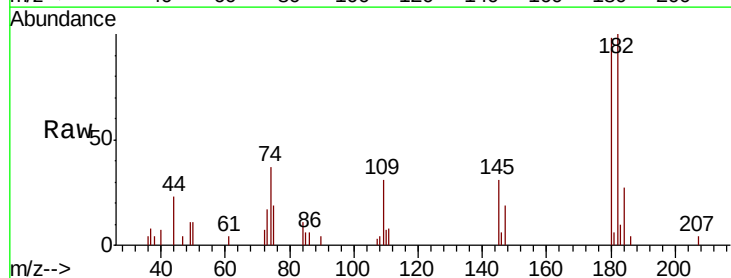


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

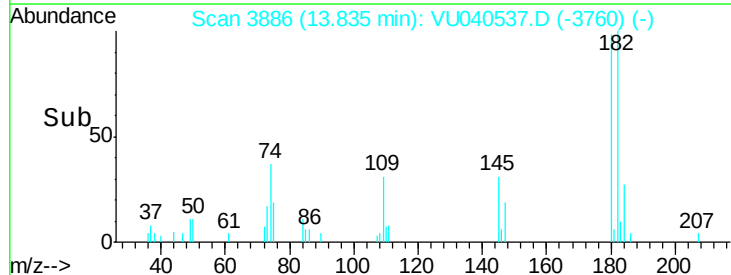
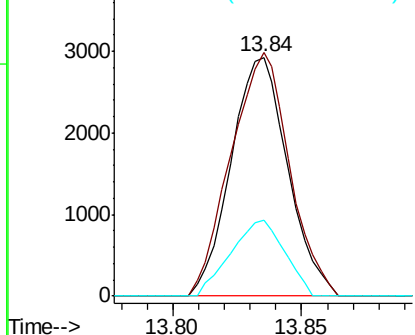


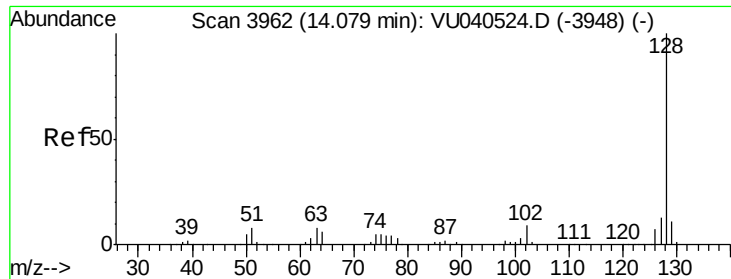
#70
 1,2,4-trichlorobenzene
 Concen: 1.834 ug/L
 RT: 13.84 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VU040537.D
 Acq: 06 Oct 2020 19:21

Tgt Ion:180 Resp: 4491
 Ion Ratio Lower Upper
 180 100
 182 105.2 75.0 112.6
 145 30.2 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: 1.308 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-01

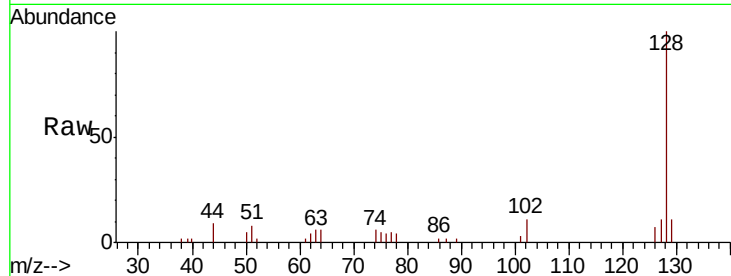
Tot Ion:128 Resp: 9901

Ion Ratio Lower Upper

128 100

127 10.5 10.5 15.7

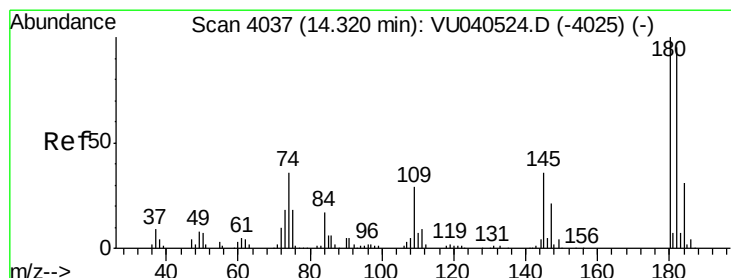
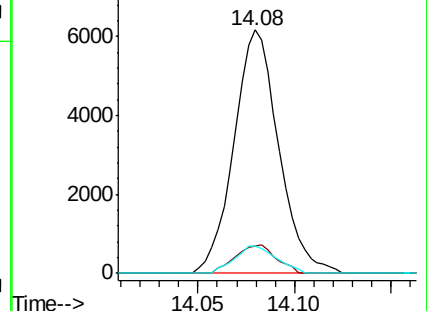
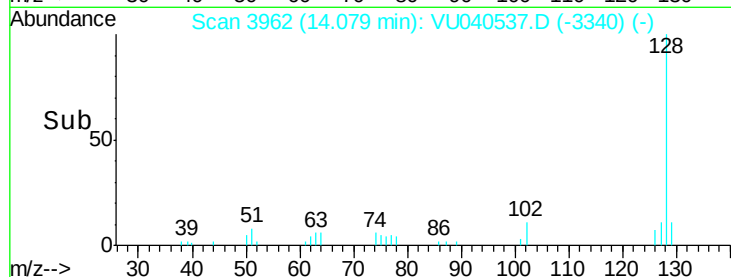
129 10.7 8.6 13.0



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: 1.622 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. 0.00 min

Lab File: VU040537.D

Acq: 06 Oct 2020 19:21

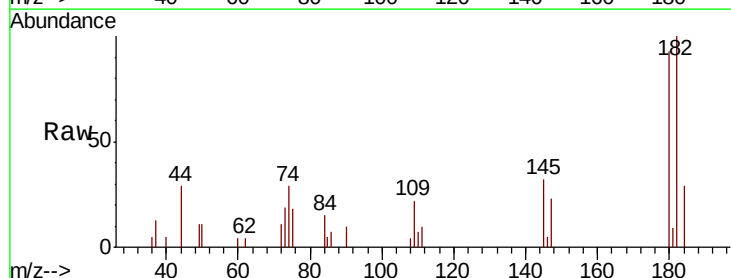
Tgt Ion:180 Resp: 3943

Ion Ratio Lower Upper

180 100

182 103.1 77.7 116.5

145 37.0 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

