

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101020\
 Data File : VU040631.D
 Acq On : 10 Oct 2020 13:05
 Operator : SY/MD
 Sample : MDL07
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL-ME-SOIL-07

Quant Time: Oct 12 01:38:49 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	261537	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	260176	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	126380	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	95855	42.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.36%
7) Chloroethane-d5	1.92	69	73844	43.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.30%
11) 1,1-Dichloroethene-d2	2.58	63	145378	33.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.84%
21) 2-Butanone-d5	4.65	46	208716	117.09	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	117.09%
24) Chloroform-d	5.08	84	182455	47.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.18%
26) 1,2-Dichloroethane-d4	5.72	65	131951	48.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.80%
32) Benzene-d6	5.75	84	354279	47.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.68%
36) 1,2-Dichloropropane-d6	6.70	67	120729	48.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.30%
41) Toluene-d8	7.91	98	312335	46.53	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.06%
43) trans-1,3-Dichloropropene-	8.19	79	56691	45.64	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.28%
47) 2-Hexanone-d5	8.64	63	131729	113.86	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.86%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	176121	49.13	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.26%
66) 1,2-Dichlorobenzene-d4	12.19	152	126934	49.35	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	5707	2.266 ug/L	100
3) Chloromethane	1.53	50	6149	2.323 ug/L	95
5) Vinyl chloride	1.61	62	6124	2.337 ug/L #	27
6) Bromomethane	1.87	94	2801	2.037 ug/L	91
8) Chloroethane	1.94	64	3809	2.409 ug/L	88
9) Trichlorofluoromethane	2.15	101	7366	2.192 ug/L	92
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	6025	3.007 ug/L #	86
12) 1,1-Dichloroethene	2.59	96	5243	2.830 ug/L #	1
13) Acetone	2.65	43	11127	6.500 ug/L	96
14) Carbon disulfide	2.81	76	14540	2.286 ug/L	96
15) Methyl Acetate	2.97	43	6726	2.409 ug/L #	82
16) Methylene chloride	3.06	84	5057	2.302 ug/L	96
17) trans-1,2-Dichloroethene	3.37	96	4545	2.304 ug/L	92
18) Methyl tert-butyl Ether	3.39	73	13275	2.139 ug/L #	75
19) 1,1-Dichloroethane	3.89	63	9286	2.360 ug/L	96
20) cis-1,2-Dichloroethene	4.68	96	5005	2.354 ug/L	85
22) 2-Butanone	4.73	43	12147	5.562 ug/L #	70

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 Misc : 5.0µ/5.0mL/100µL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 9 Sample Multiplier: 1

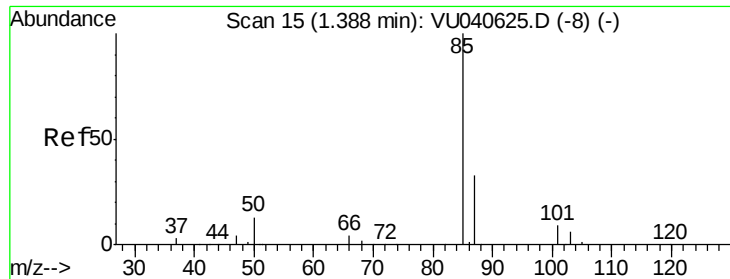
Instrument :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.99	128	2548	2.300	ug/L	92
25) Chloroform	5.11	83	12561	3.131	ug/L	94
27) 1,2-Dichloroethane	5.81	62	7883	2.381	ug/L #	90
29) Cyclohexane	5.41	56	7060	2.027	ug/L #	73
30) 1,1,1-Trichloroethane	5.34	97	7812	2.338	ug/L	98
31) Carbon tetrachloride	5.54	117	6504	2.251	ug/L	98
33) Benzene	5.79	78	20088	2.389	ug/L	100
34) Trichloroethene	6.56	95	4741	2.188	ug/L	88
35) Methylcyclohexane	6.77	83	6452	1.959	ug/L	94
37) 1,2-Dichloropropane	6.80	63	5606	2.428	ug/L #	94
38) Bromodichloromethane	7.12	83	6851	2.284	ug/L #	98
39) cis-1,3-Dichloropropene	7.62	75	7928	2.342	ug/L	98
40) 4-Methyl-2-pentanone	7.80	43	16439	4.511	ug/L	96
42) Toluene	7.98	91	18961	2.208	ug/L	92
44) trans-1,3-Dichloropropene	8.22	75	7869	2.309	ug/L	92
45) 1,1,2-Trichloroethane	8.40	97	4771	2.306	ug/L	96
46) Tetrachloroethene	8.56	164	3552	2.269	ug/L	97
48) 2-Hexanone	8.69	43	18694	6.312	ug/L	98
49) Dibromochloromethane	8.81	129	4678	2.071	ug/L	94
50) 1,2-Dibromoethane	8.93	107	5099	2.325	ug/L #	88
51) Chlorobenzene	9.45	112	12810	2.275	ug/L	98
52) Ethylbenzene	9.57	91	19074	2.002	ug/L	99
53) m,p-Xylene	9.69	106	6985	1.990	ug/L	90
54) o-xylene	10.10	106	5822	1.744	ug/L	87
55) Styrene	10.11	104	10590	1.801	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.78	83	8680	2.373	ug/L	99
59) Bromoform	10.29	173	3520	2.272	ug/L #	94
60) 1,2,3-Trichloropropane	10.82	75	7163	2.495	ug/L	98
61) Isopropylbenzene	10.48	105	15807	1.862	ug/L #	87
62) 1,3,5-Trimethylbenzene	11.09	105	12342	1.770	ug/L	99
63) 1,2,4-Trimethylbenzene	11.46	105	11901	1.683	ug/L	98
64) 1,3-Dichlorobenzene	11.74	146	8865	2.142	ug/L	97
65) 1,4-Dichlorobenzene	11.83	146	9598	2.208	ug/L	99
67) 1,2-Dichlorobenzene	12.21	146	10378	2.503	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.99	75	1833	2.273	ug/L	89
69) 1,3,5-Trichlorobenzene	13.21	180	5938	2.190	ug/L	99
70) 1,2,4-trichlorobenzene	13.83	180	4474	1.904	ug/L	100
71) Naphthalene	14.08	128	9451	1.301	ug/L #	94
72) 1,2,3-Trichlorobenzene	14.32	180	4234	1.815	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 2.266 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU040631.D

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MSVOA_U

ClientSampleId :

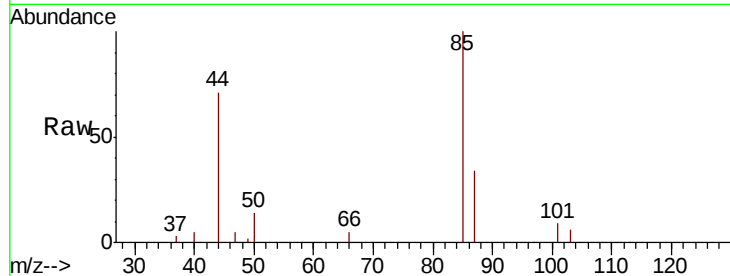
MDL-ME-SOIL-07

Tot Ion: 85 Resp: 5707

Ion Ratio Lower Upper

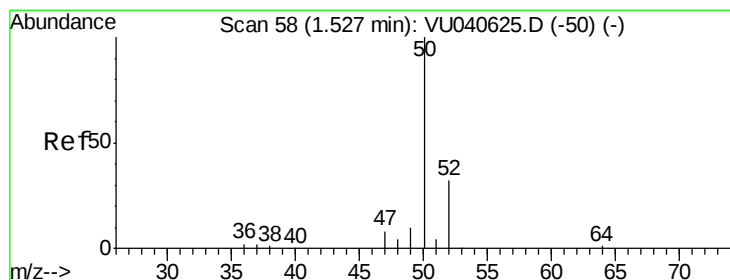
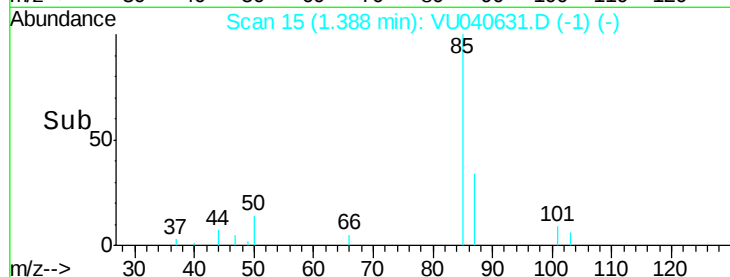
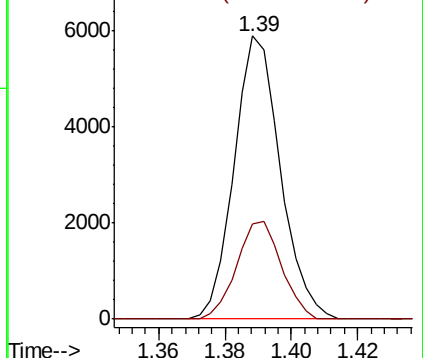
85 100

87 33.3 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 2.323 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040631.D

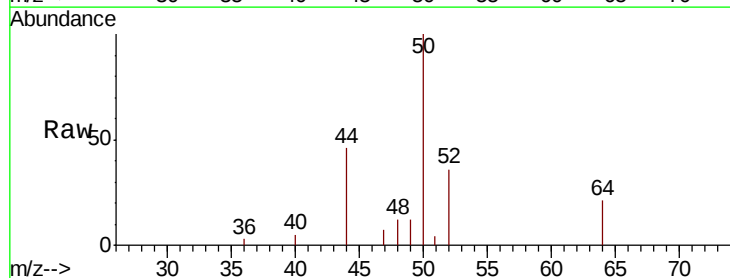
Acq: 10 Oct 2020 13:05

Tgt Ion: 50 Resp: 6149

Ion Ratio Lower Upper

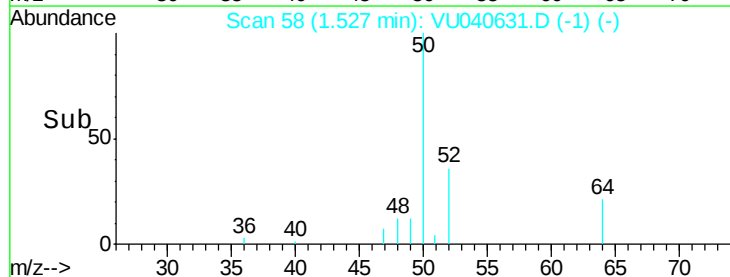
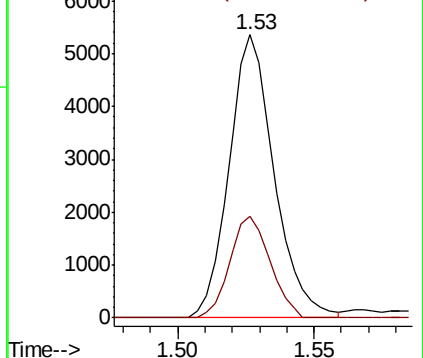
50 100

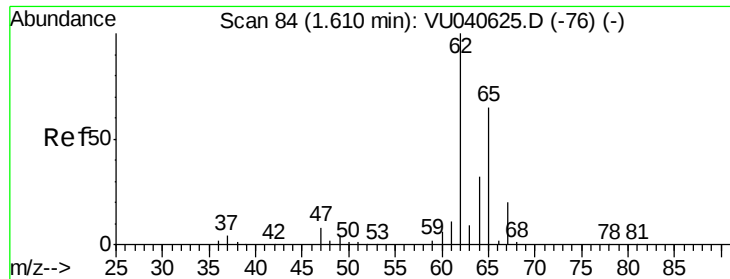
52 35.7 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 2.337 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

Instrument :

MSVOA_U

ClientSampleId :

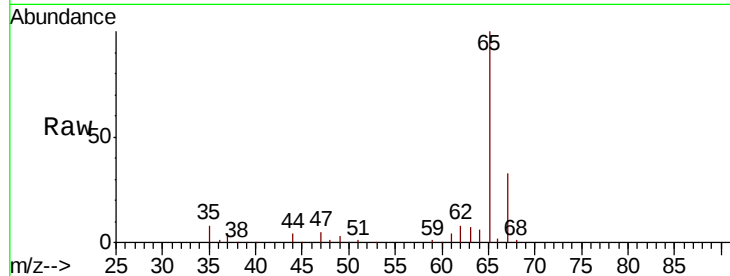
MDL-ME-SOIL-07

Tot Ion: 62 Resp: 6124

Ion Ratio Lower Upper

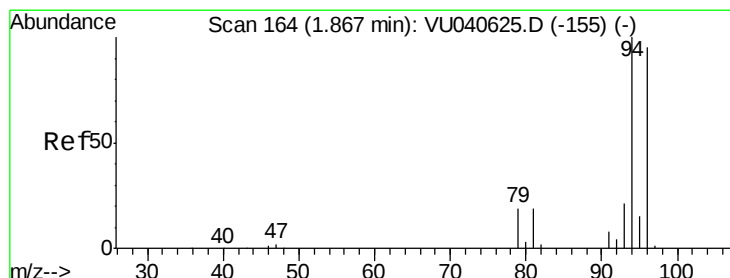
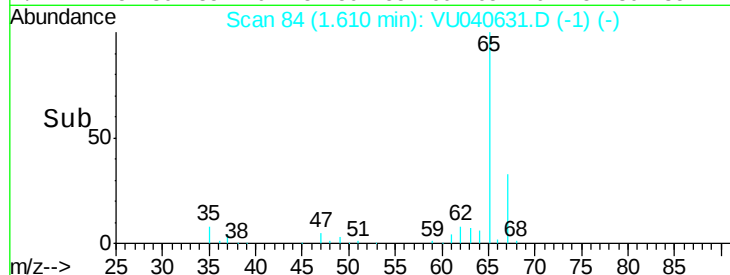
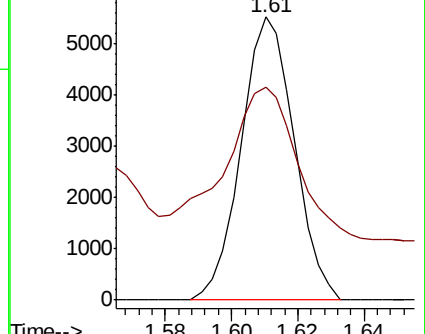
62 100

64 75.1 23.4 43.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.037 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU040631.D

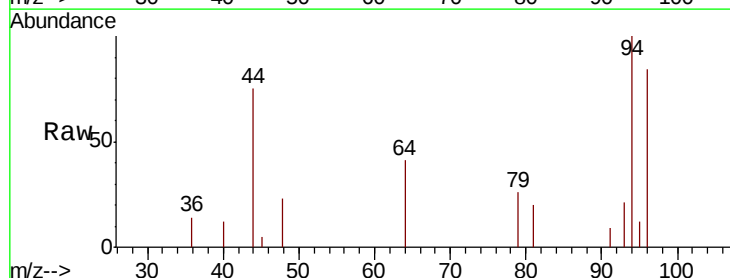
Acq: 10 Oct 2020 13:05

Tgt Ion: 94 Resp: 2801

Ion Ratio Lower Upper

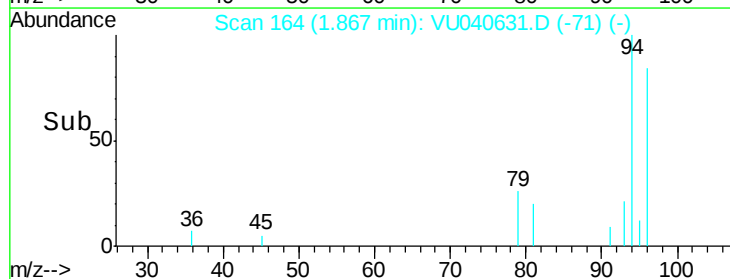
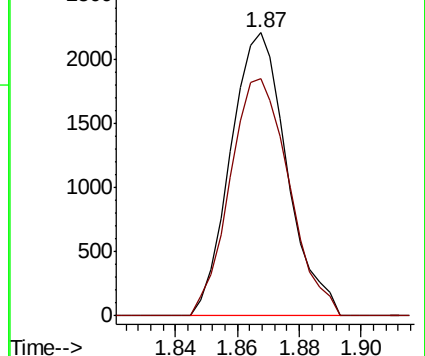
94 100

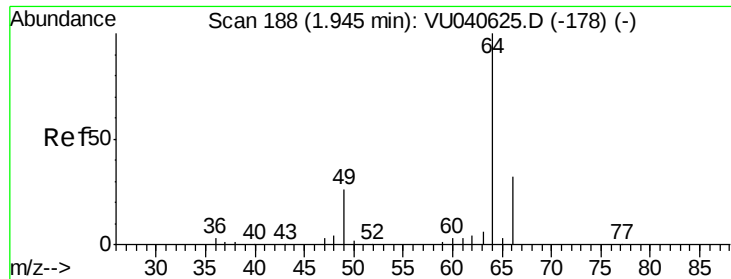
96 83.8 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

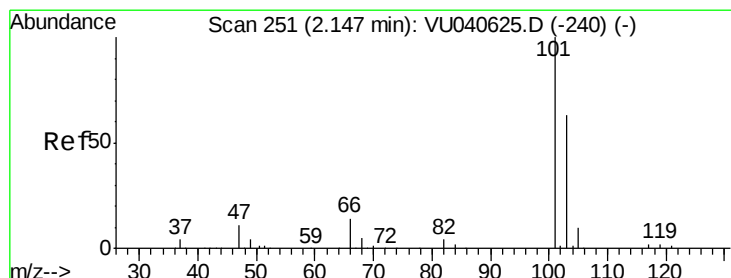
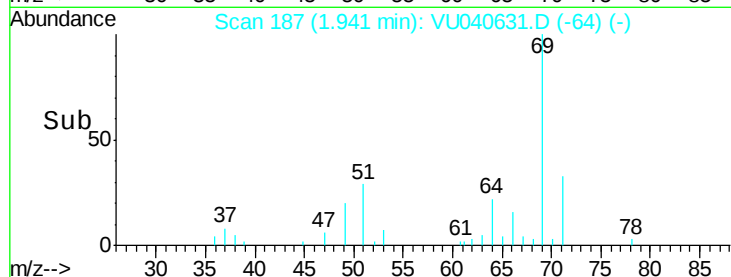
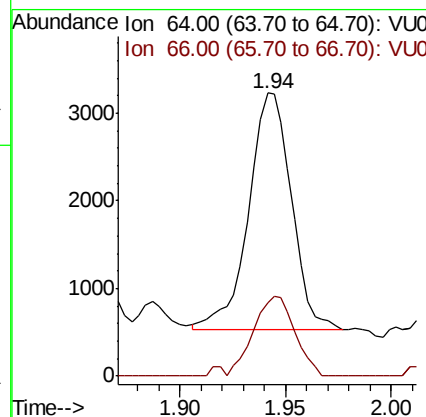
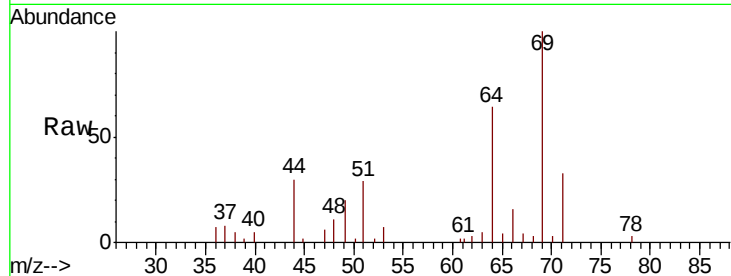




#8
Chloroethane
Concen: 2.409 ug/L
RT: 1.94 min Scan# 187
Delta R.T. -0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

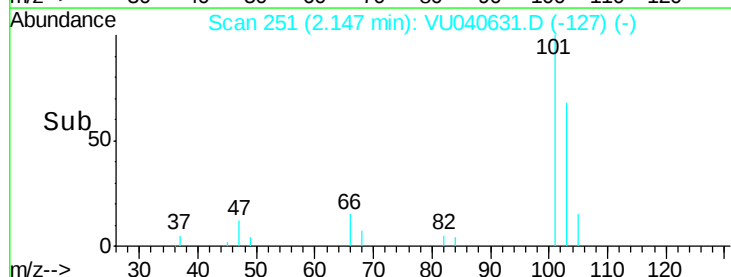
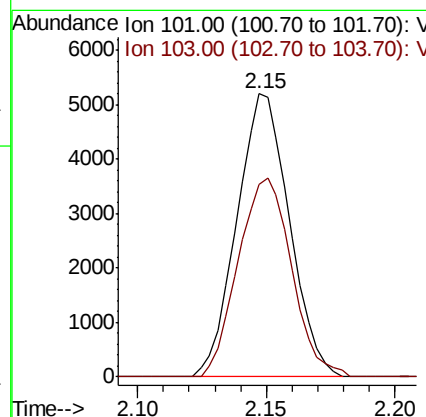
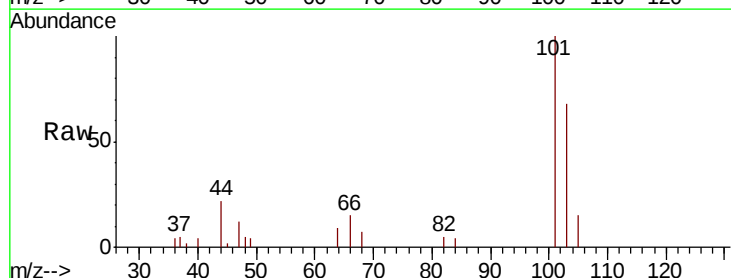
Instrument :
MSVOA_U
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MDL-ME-SOIL-07

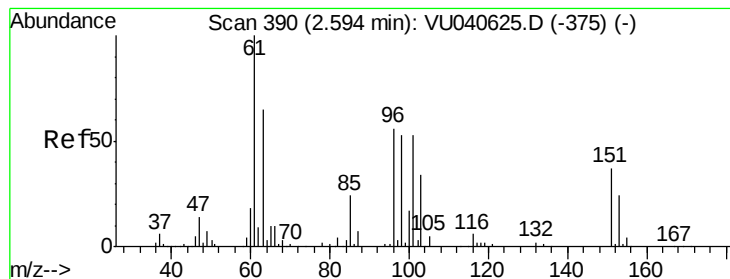
Tot Ion: 64 Resp: 3809
Ion Ratio Lower Upper
64 100
66 25.7 22.5 41.9



#9
Trichlorofluoromethane
Concen: 2.192 ug/L
RT: 2.15 min Scan# 251
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

Tgt Ion: 101 Resp: 7366
Ion Ratio Lower Upper
101 100
103 71.5 52.1 78.1





#10

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

Concen: 3.007 ug/L

RT: 2.60 min Scan# 391

Delta R.T. 0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-07

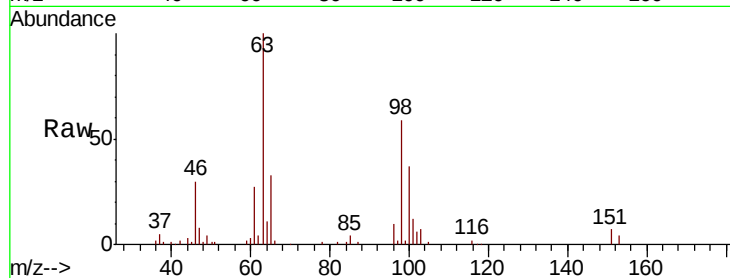
Tot Ion:101 Resp: 6025

Ion Ratio Lower Upper

101 100

85 35.3 35.4 53.2#

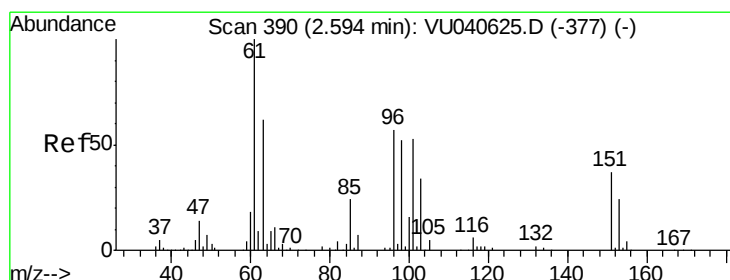
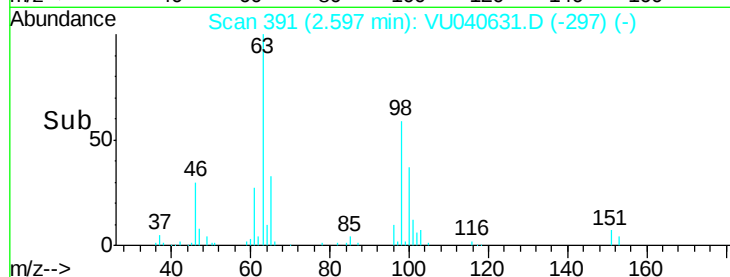
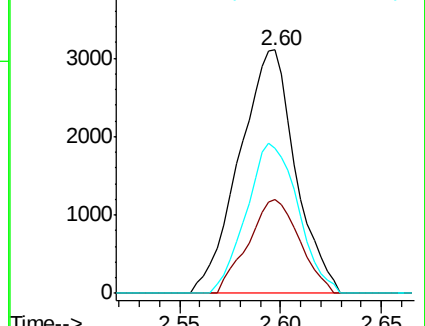
151 56.7 54.8 82.2



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: 2.830 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

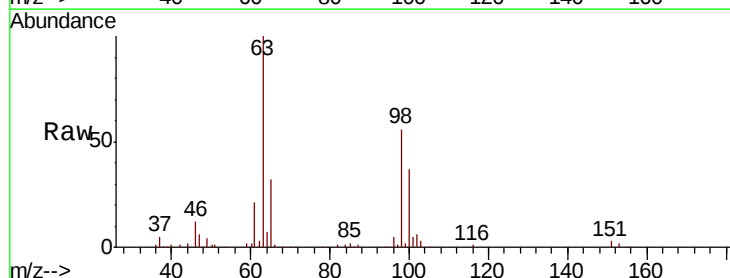
Tgt Ion: 96 Resp: 5243

Ion Ratio Lower Upper

96 100

61 406.8 135.0 250.8#

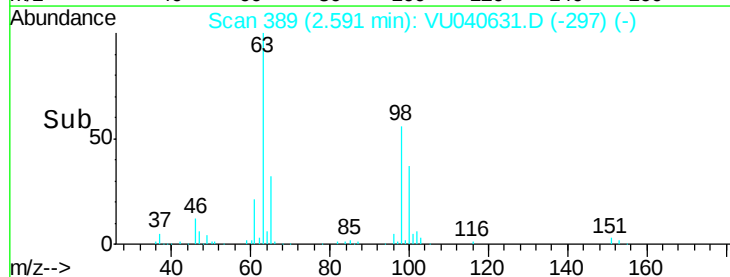
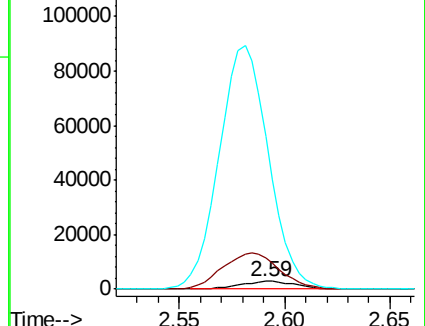
63 1981.7 101.4 188.2#

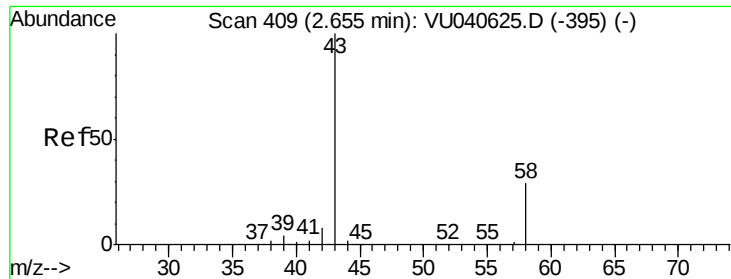


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

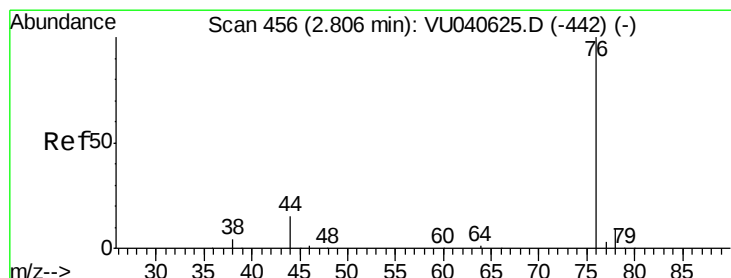
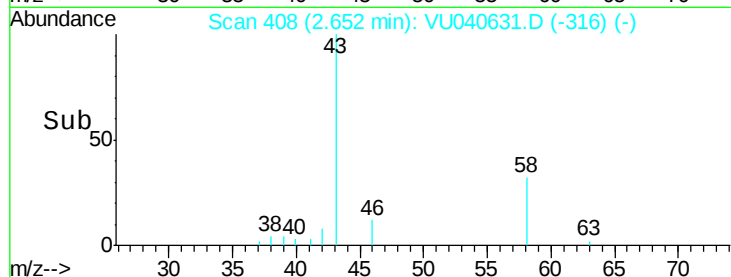
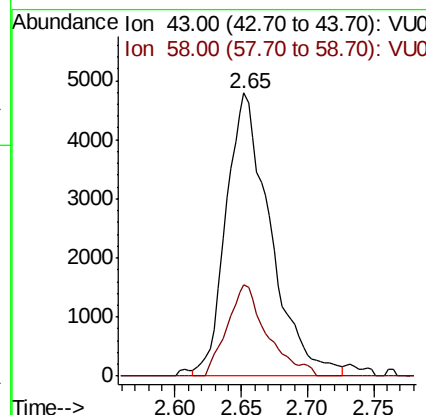
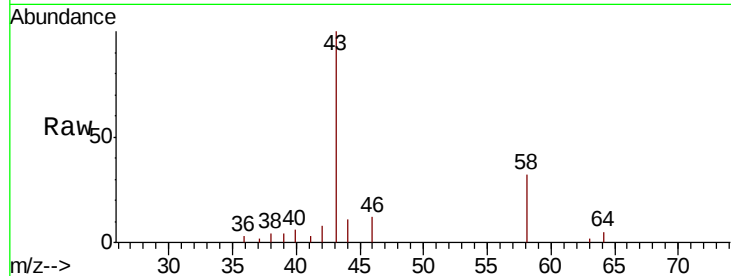




#13
Acetone
Concen: 6.500 ug/L
RT: 2.65 min Scan# 408
Delta R.T. -0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

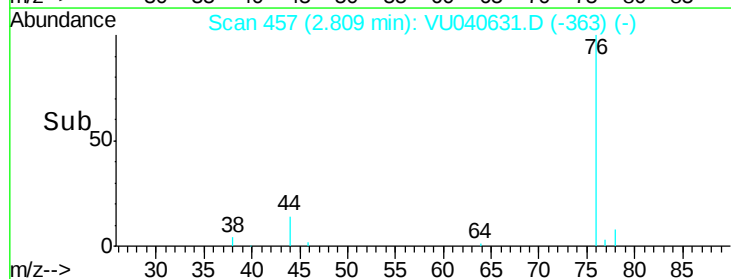
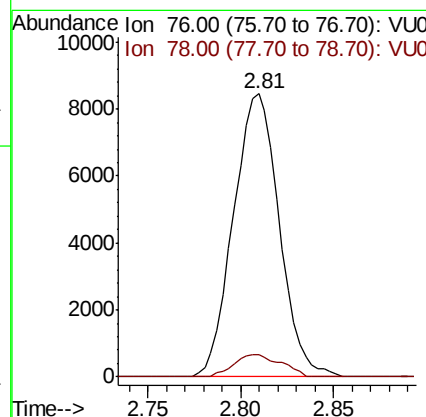
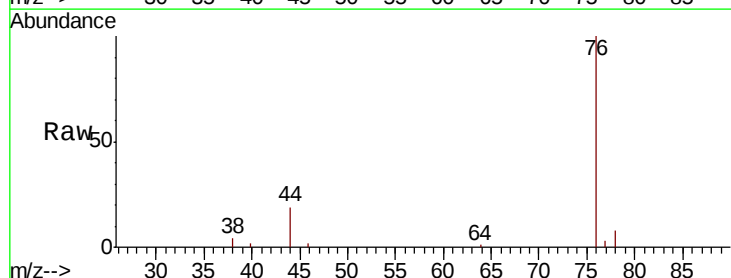
Instrument :
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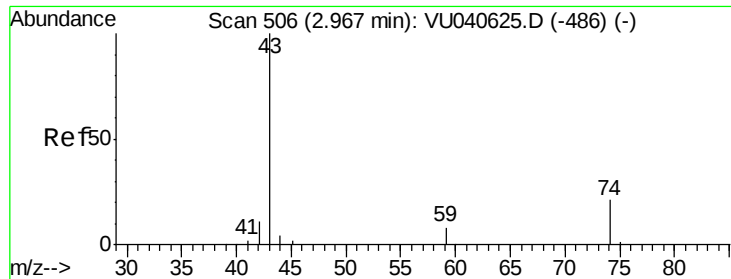
Tot Ion: 43 Resp: 11127
Ion Ratio Lower Upper
43 100
58 28.1 0.0 60.2



#14
Carbon disulfide
Concen: 2.286 ug/L
RT: 2.81 min Scan# 457
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

Tgt Ion: 76 Resp: 14540
Ion Ratio Lower Upper
76 100
78 7.7 7.4 11.0

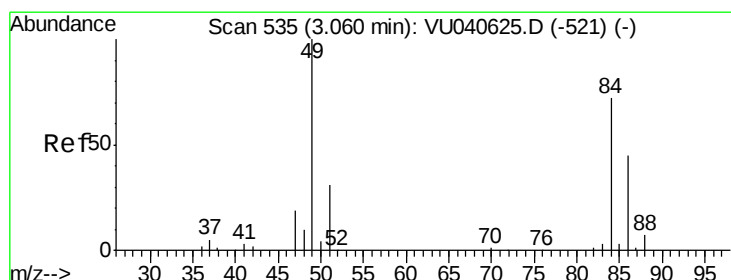
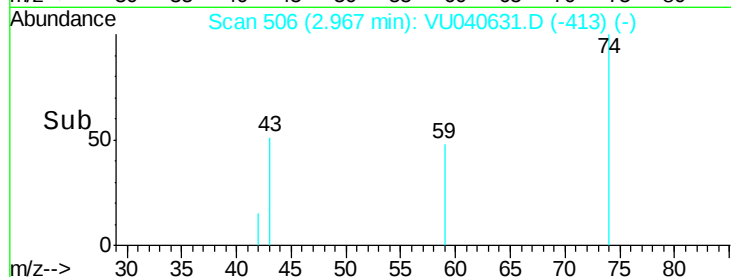
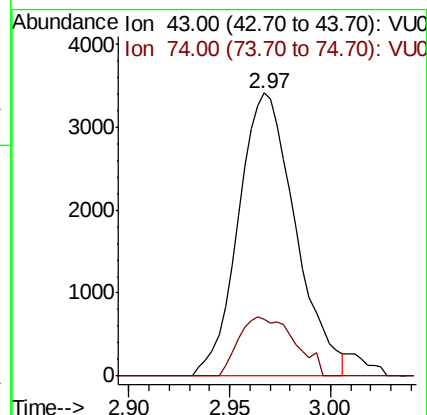
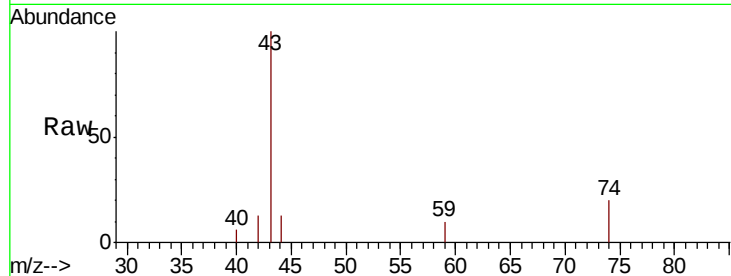




#15
Methvl Acetate
Concen: 2.409 ug/L
RT: 2.97 min Scan# 506
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

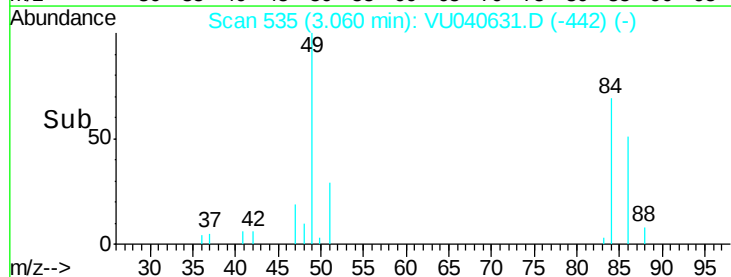
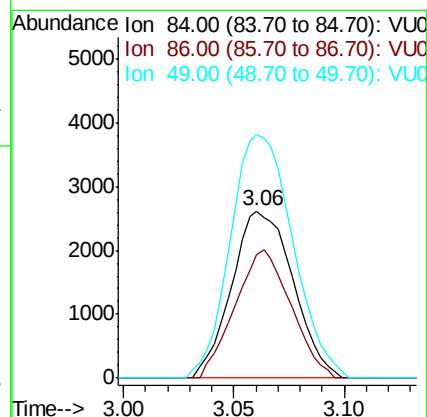
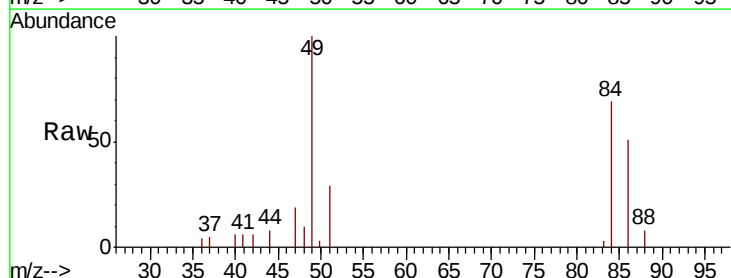
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-07

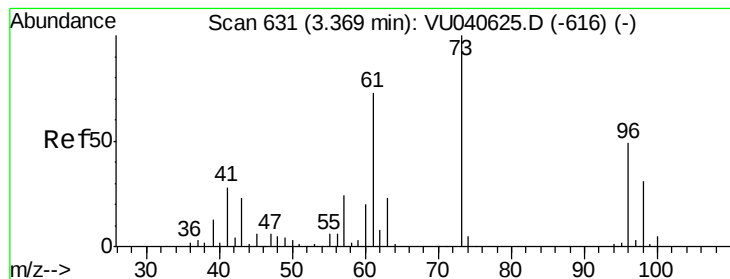
Tot Ion: 43 Resp: 6726
Ion Ratio Lower Upper
43 100
74 12.0 16.4 24.6#



#16
Methylene chloride
Concen: 2.302 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

Tgt Ion: 84 Resp: 5057
Ion Ratio Lower Upper
84 100
86 74.0 45.4 84.4
49 145.9 102.9 191.1





#17

trans-1,2-Dichloroethene

Concen: 2.304 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-07

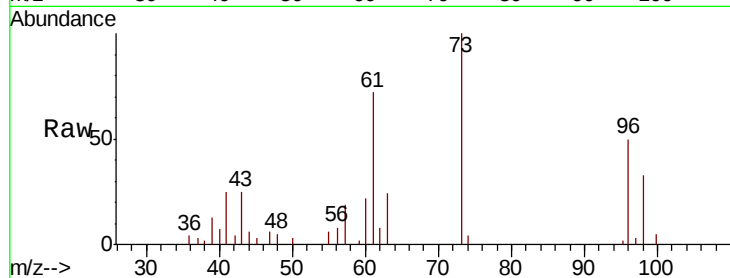
Tot Ion: 96 Resp: 4545

Ion Ratio Lower Upper

96 100

61 145.3 109.6 203.6

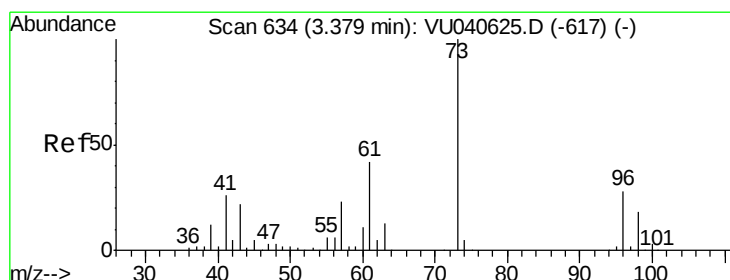
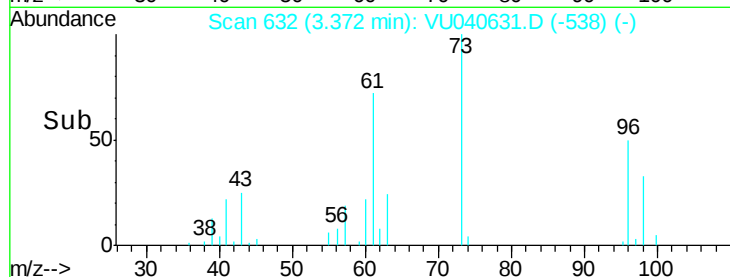
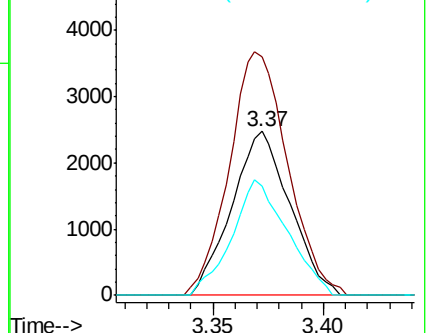
98 66.7 43.3 80.3



Abundance Ion 96.00 (95.70 to 96.70): VU040631.D (-538) (-)

Ion 61.00 (60.70 to 61.70): VU040631.D (-538) (-)

Ion 98.00 (97.70 to 98.70): VU040631.D (-538) (-)



#18

Methyl tert-butyl Ether

Concen: 2.139 ug/L

RT: 3.39 min Scan# 636

Delta R.T. 0.01 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

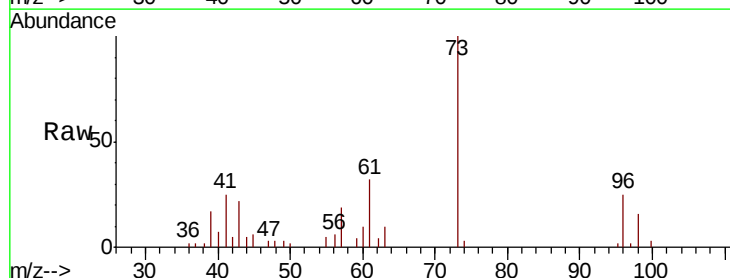
Tgt Ion: 73 Resp: 13275

Ion Ratio Lower Upper

73 100

43 11.5 18.2 27.2#

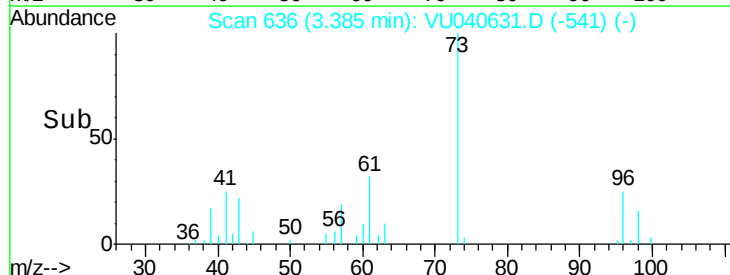
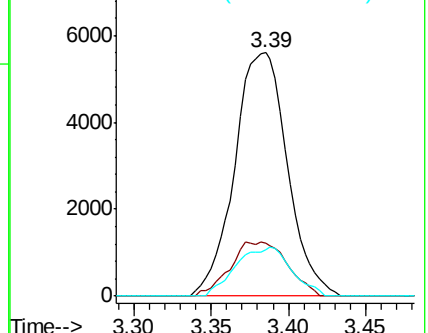
57 10.4 18.5 27.7#

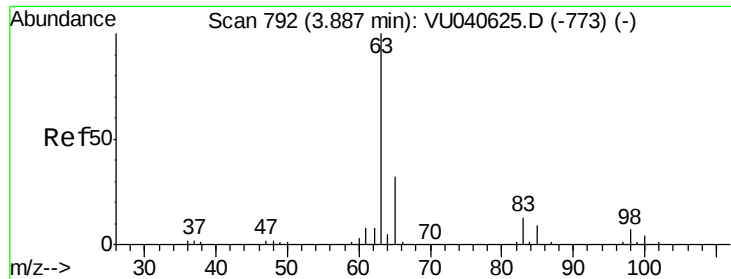


Abundance Ion 73.00 (72.70 to 73.70): VU040631.D (-541) (-)

Ion 43.00 (42.70 to 43.70): VU040631.D (-541) (-)

Ion 57.00 (56.70 to 57.70): VU040631.D (-541) (-)

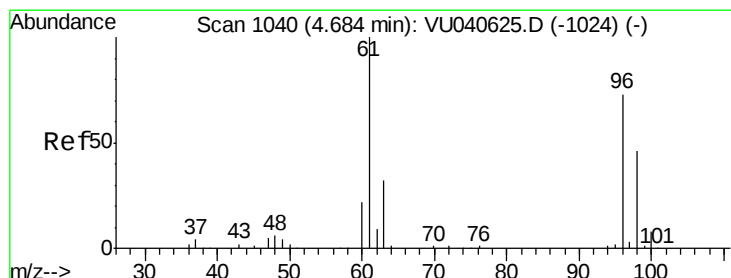
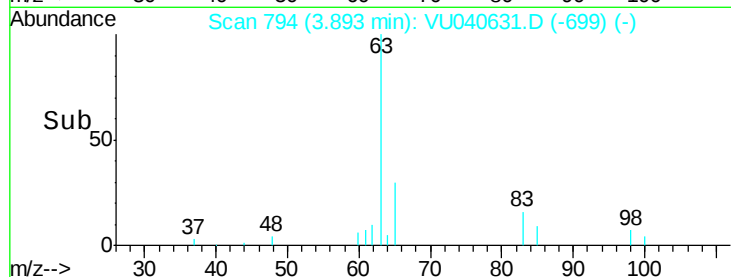
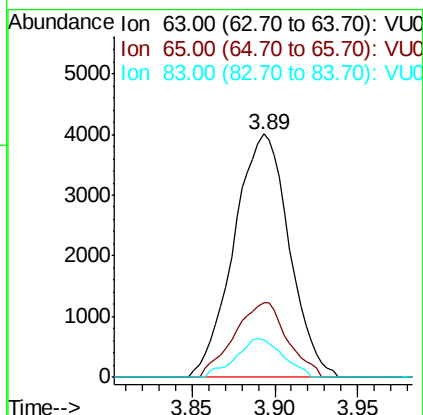
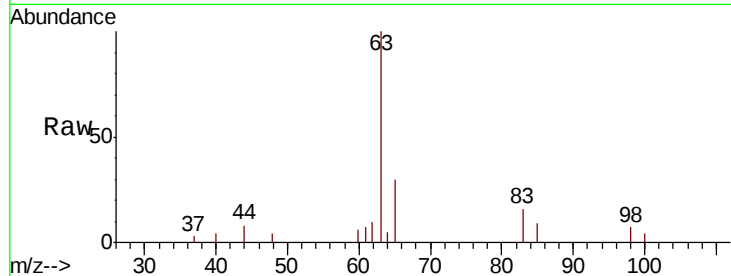




#19
 1,1-Dichloroethane
 Concen: 2.360 ug/L
 RT: 3.89 min Scan# 794
 Delta R.T. 0.01 min
 Lab File: VU040631.D
 Acq: 10 Oct 2020 13:05

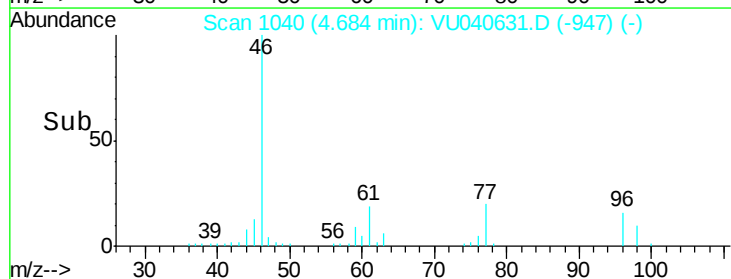
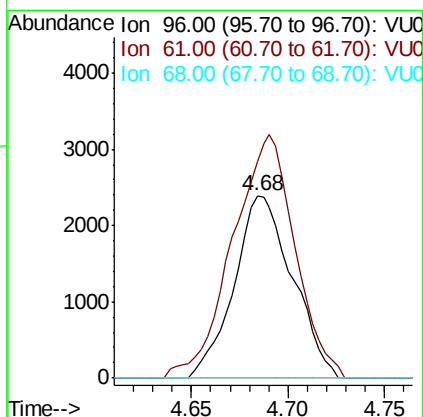
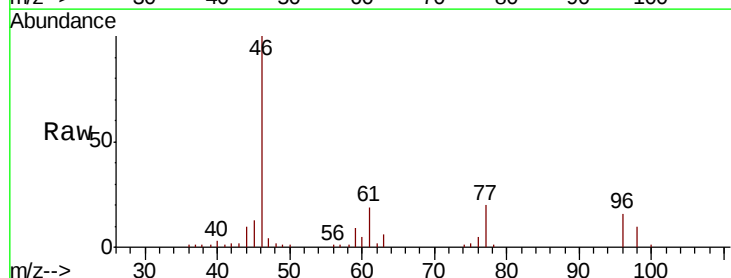
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-07

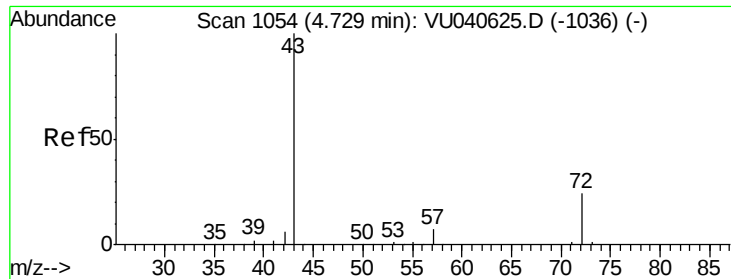
Tot Ion: 63 Resp: 9286
 Ion Ratio Lower Upper
 63 100
 65 30.5 22.6 42.0
 83 15.6 9.1 16.9



#20
 cis-1,2-Dichloroethene
 Concen: 2.354 ug/L
 RT: 4.68 min Scan# 1040
 Delta R.T. 0.00 min
 Lab File: VU040631.D
 Acq: 10 Oct 2020 13:05

Tgt Ion: 96 Resp: 5005
 Ion Ratio Lower Upper
 96 100
 61 118.4 95.7 177.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 5.562 ug/L

RT: 4.73 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

Instrument :

MSVOA_U

ClientSampleId :

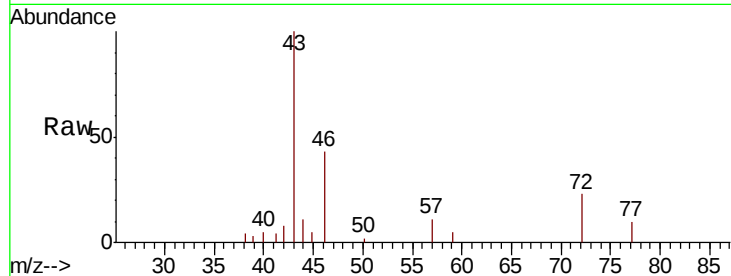
MDL-ME-SOIL-07

Tot Ion: 43 Resp: 12147

Ion Ratio Lower Upper

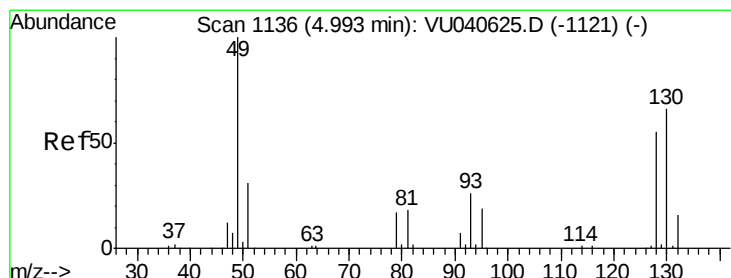
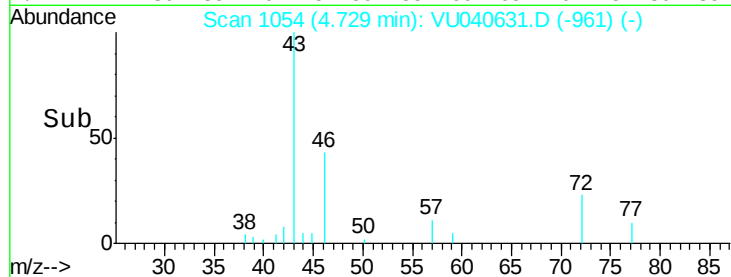
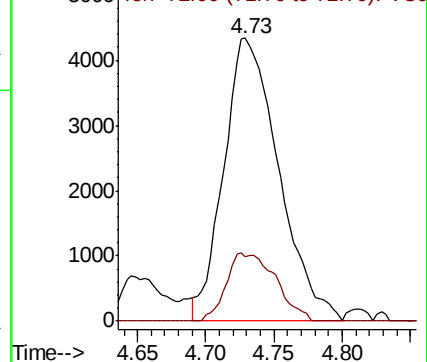
43 100

72 9.1 11.9 35.9#



Abundance Ion 43.00 (42.70 to 43.70): VU040631.D (-961) (-)

Ion 72.00 (71.70 to 72.70): VU040631.D (-961) (-)



#23

Bromochloromethane

Concen: 2.300 ug/L

RT: 4.99 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

Tgt Ion: 128 Resp: 2548

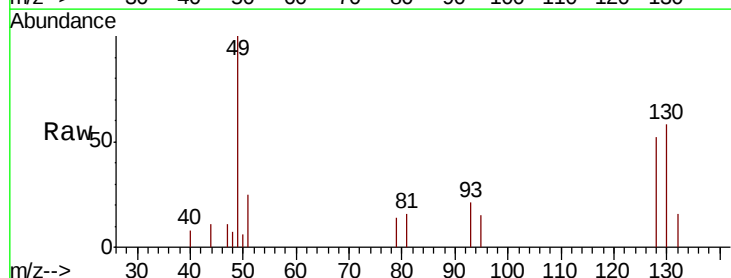
Ion Ratio Lower Upper

128 100

49 191.6 133.1 247.3

130 111.7 90.5 168.1

51 48.8 48.4 72.6

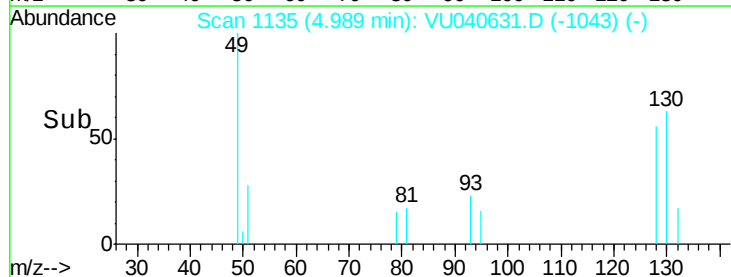
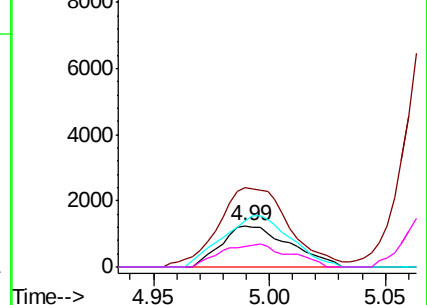


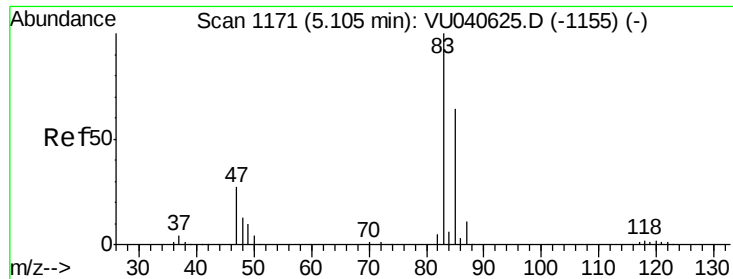
Abundance Ion 128.00 (127.70 to 128.70): VU040631.D (-1043) (-)

Ion 49.00 (48.70 to 49.70): VU040631.D (-1043) (-)

Ion 130.00 (129.70 to 130.70): VU040631.D (-1043) (-)

Ion 51.00 (50.70 to 51.70): VU040631.D (-1043) (-)

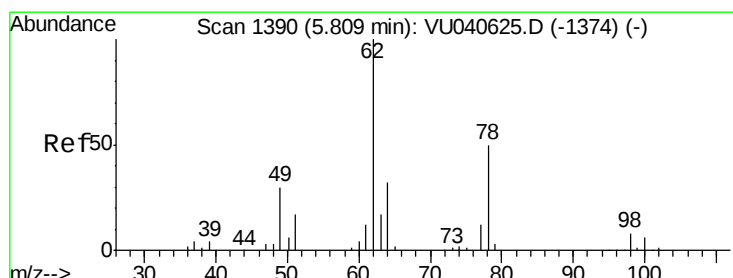
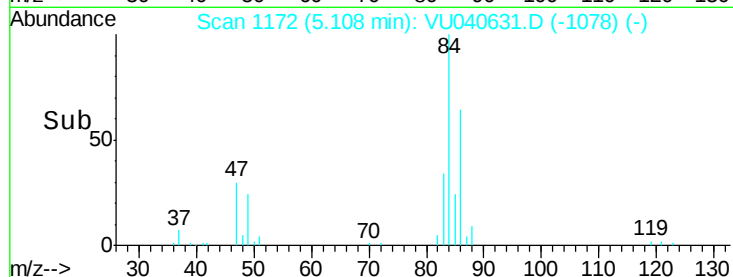
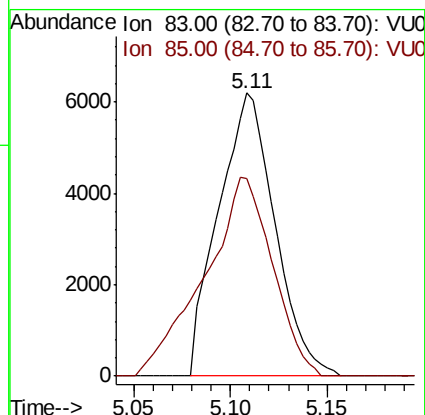
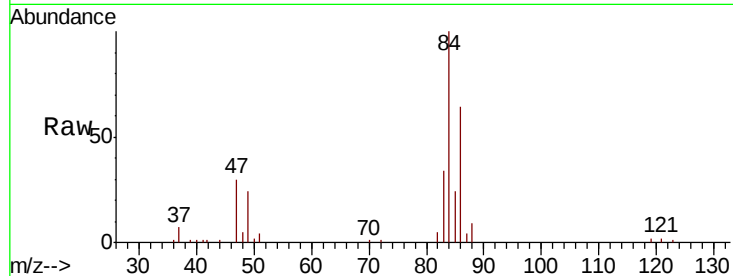




#25
Chloroform
Concen: 3.131 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

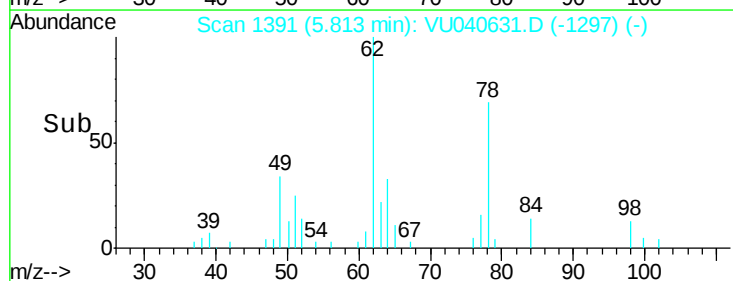
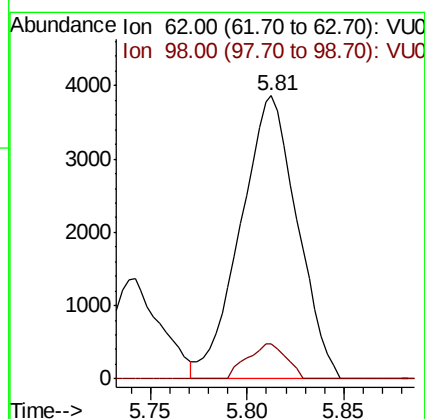
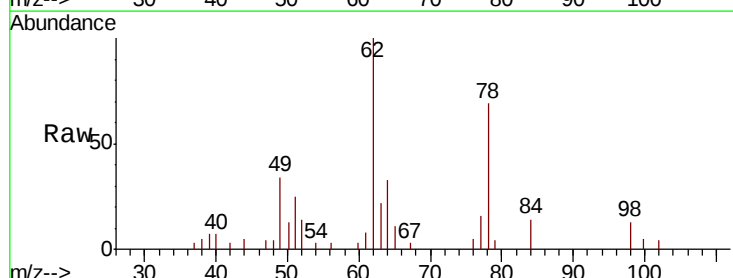
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-07

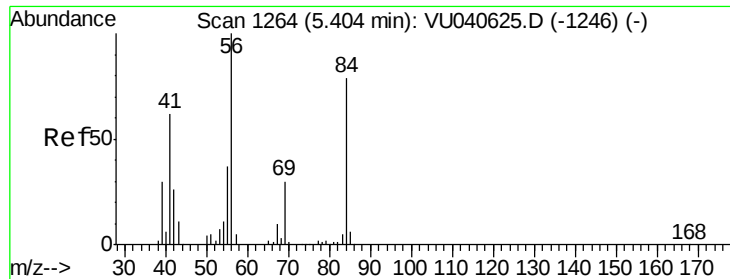
Tot Ion: 83 Resp: 12561
Ion Ratio Lower Upper
83 100
85 69.9 45.6 84.8



#27
1,2-Dichloroethane
Concen: 2.381 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

Tgt Ion: 62 Resp: 7883
Ion Ratio Lower Upper
62 100
98 12.5 7.1 10.7#

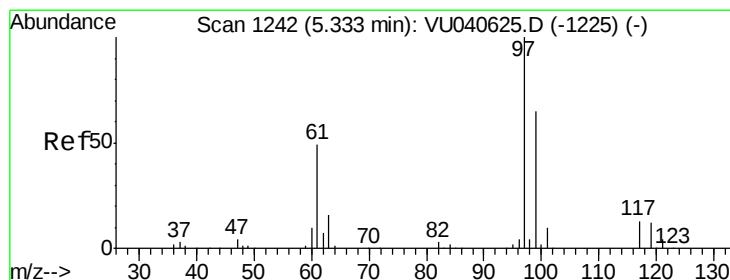
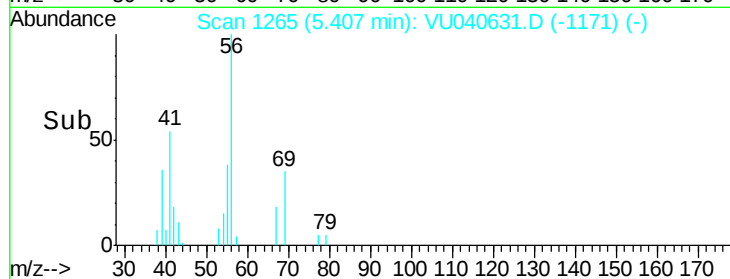
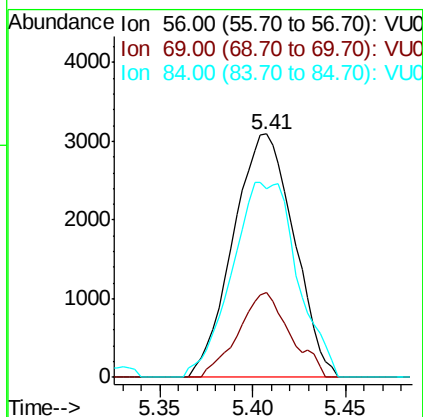
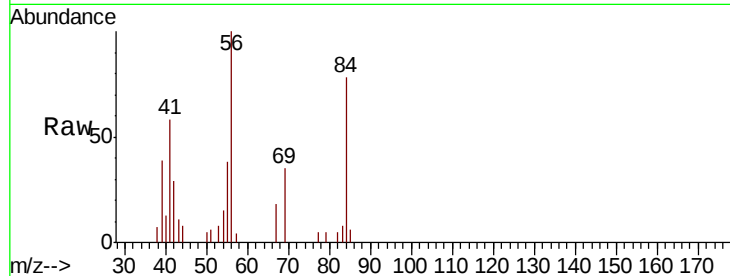




#29
Cyclohexane
Concen: 2.027 ug/L
RT: 5.41 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

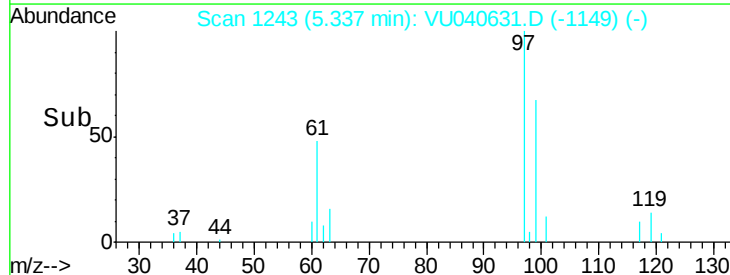
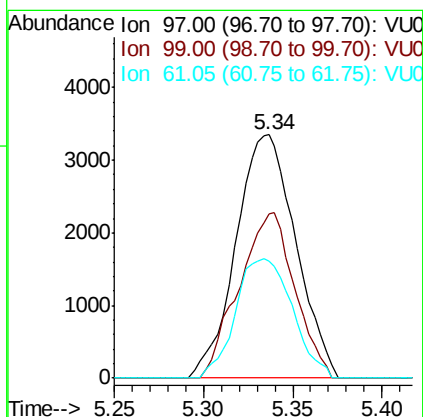
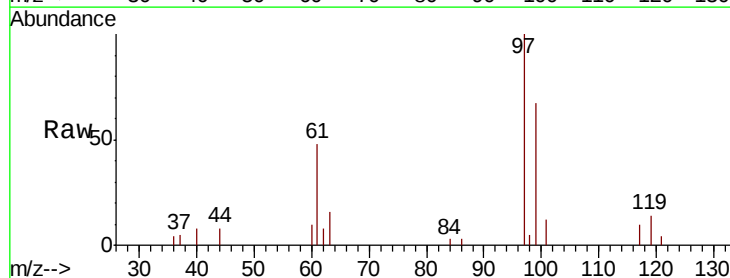
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-07

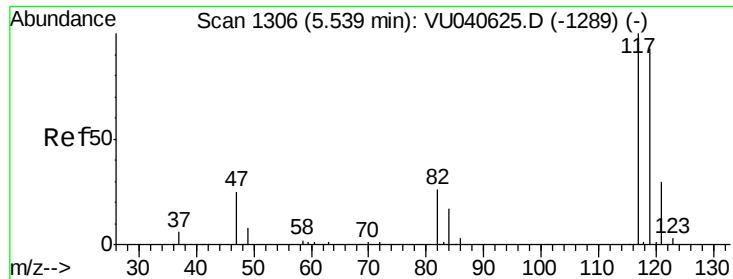
Tot Ion: 56 Resp: 7060
Ion Ratio Lower Upper
56 100
69 29.6 22.6 34.0
84 48.0 63.1 94.7#



#30
1,1,1-Trichloroethane
Concen: 2.338 ug/L
RT: 5.34 min Scan# 1243
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

Tgt Ion: 97 Resp: 7812
Ion Ratio Lower Upper
97 100
99 63.4 51.0 76.6
61 46.6 39.4 59.2

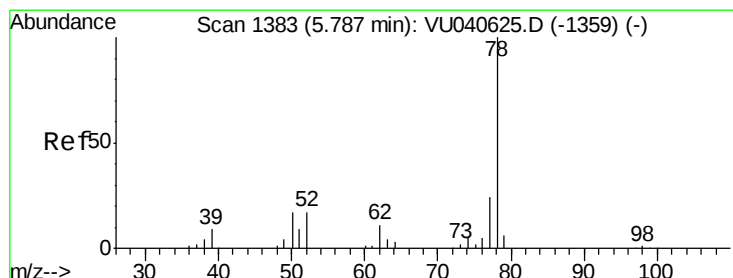
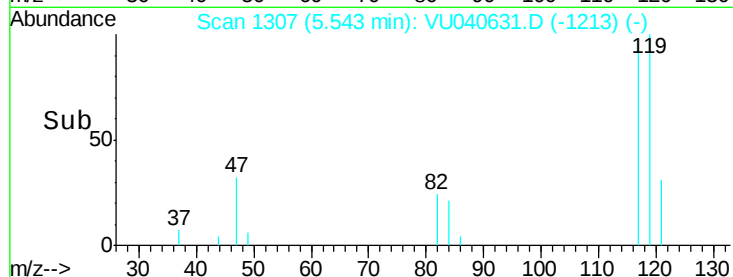
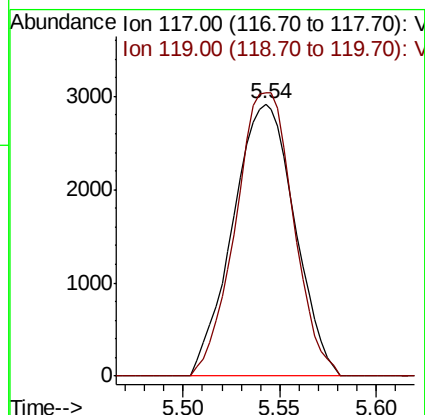
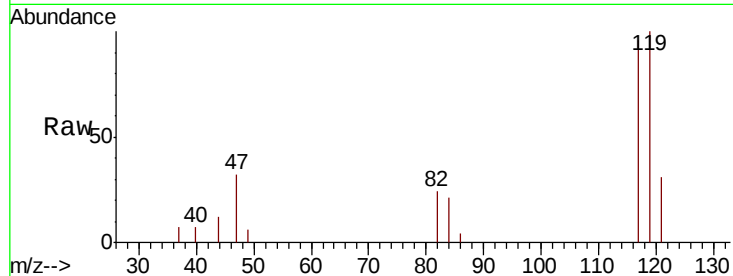




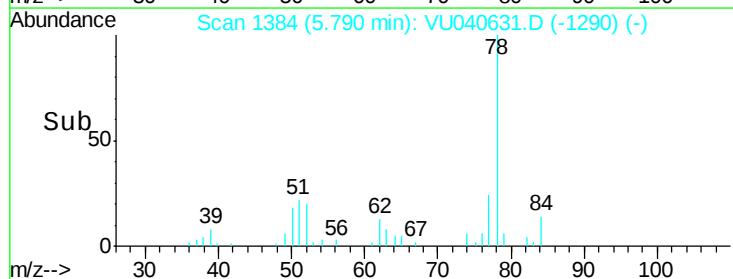
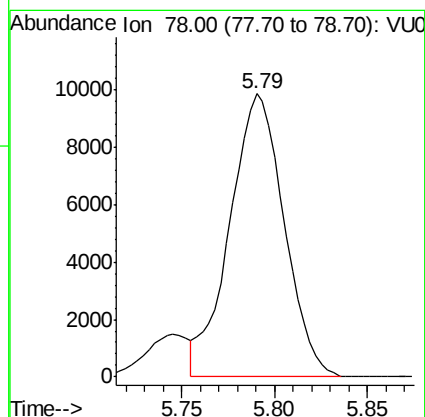
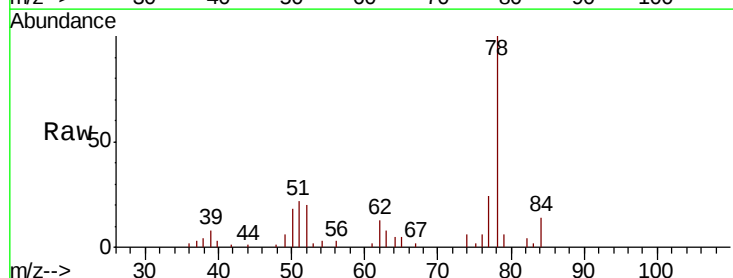
#31
Carbon tetrachloride
Concen: 2.251 ug/L
RT: 5.54 min Scan# 1307
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

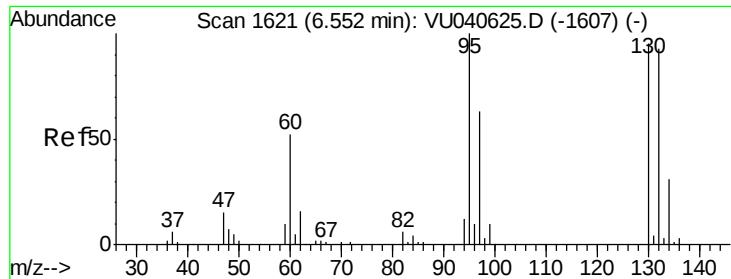
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-07

Tot Ion:117 Resp: 6504
Ion Ratio Lower Upper
117 100
119 97.0 75.8 113.6



#33
Benzene
Concen: 2.389 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05
Tgt Ion: 78 Resp: 20088

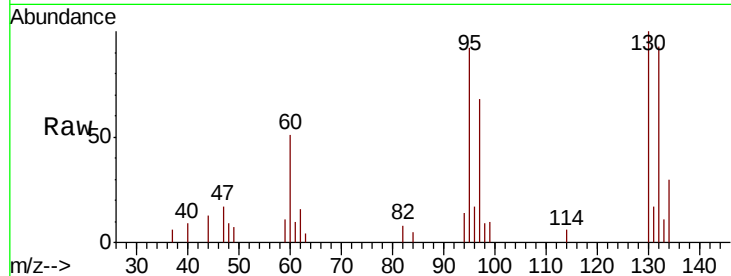




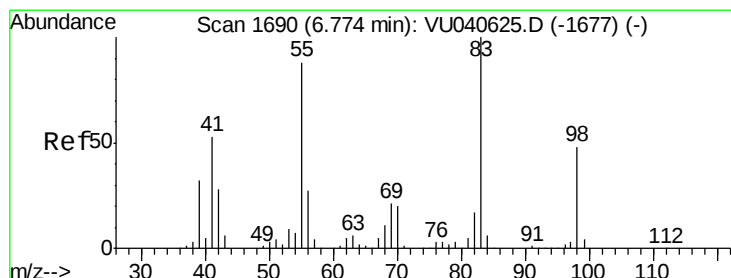
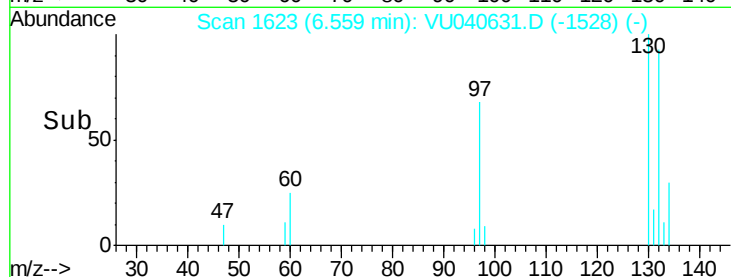
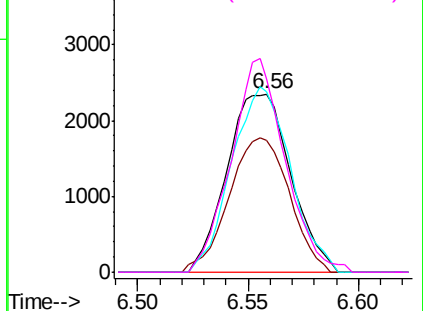
#34
 Trichloroethene
 Concen: 2.188 ug/L
 RT: 6.56 min Scan# 1623
 Delta R.T. 0.01 min
 Lab File: VU040631.D
 Acq: 10 Oct 2020 13:05

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-07

Tot Ion: 95 Resp: 4741
 Ion Ratio Lower Upper
 95 100
 97 74.3 44.3 82.3
 132 101.1 64.2 119.2
 130 108.6 67.3 125.1

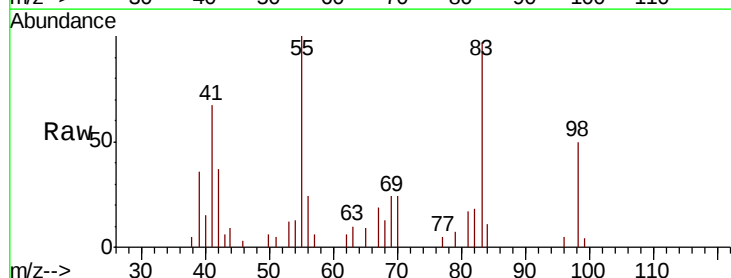


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

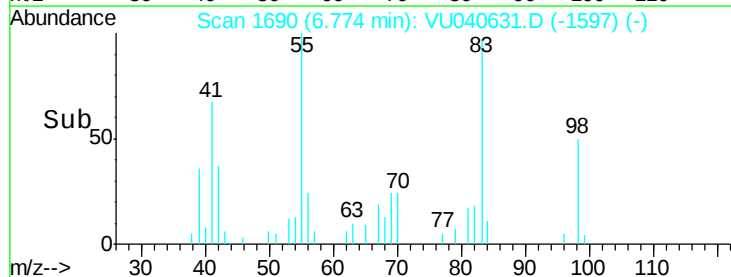
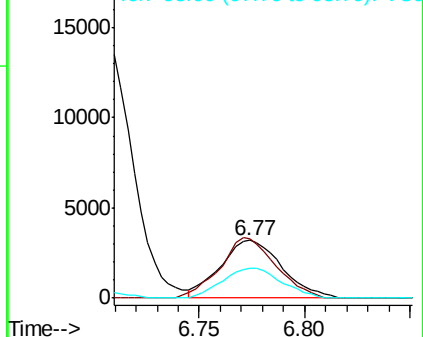


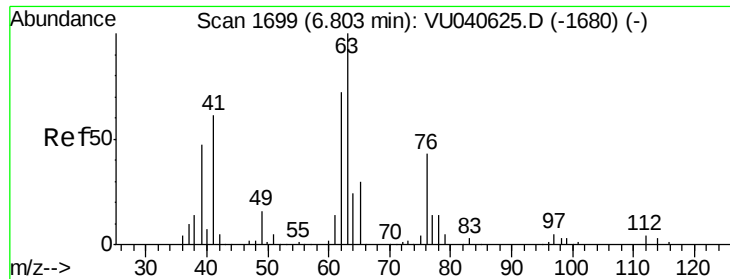
#35
 Methylcyclohexane
 Concen: 1.959 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU040631.D
 Acq: 10 Oct 2020 13:05

Tgt Ion: 83 Resp: 6452
 Ion Ratio Lower Upper
 83 100
 55 95.0 69.8 104.8
 98 49.5 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

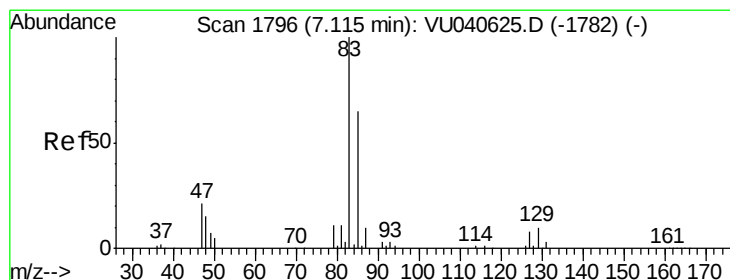
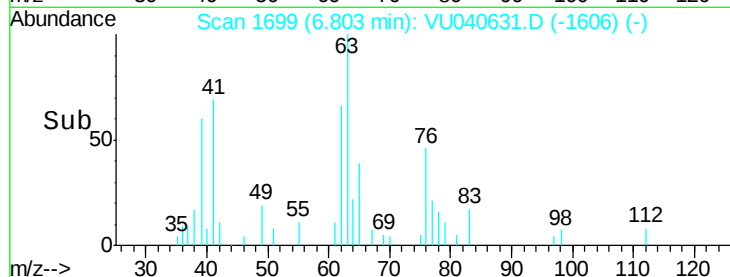
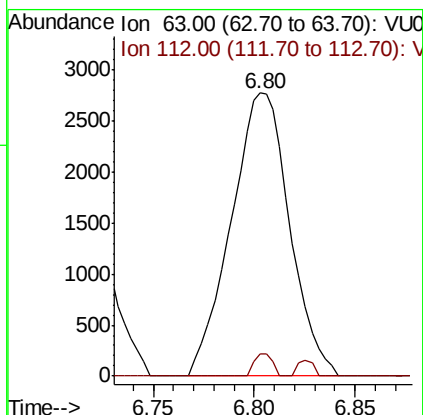
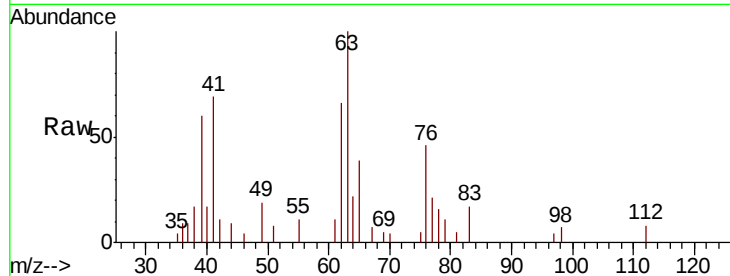




#37
 1,2-Dichloropropane
 Concen: 2.428 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VU040631.D
 Acq: 10 Oct 2020 13:05

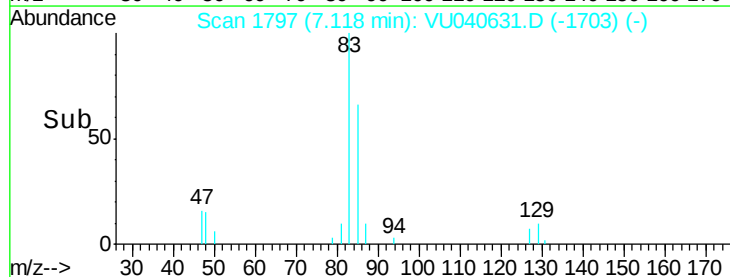
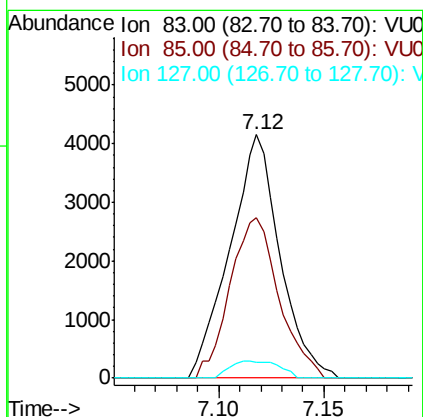
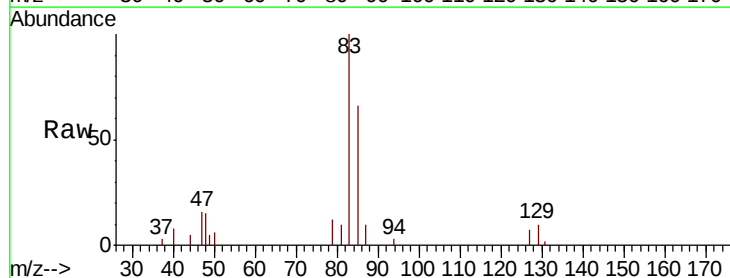
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-07

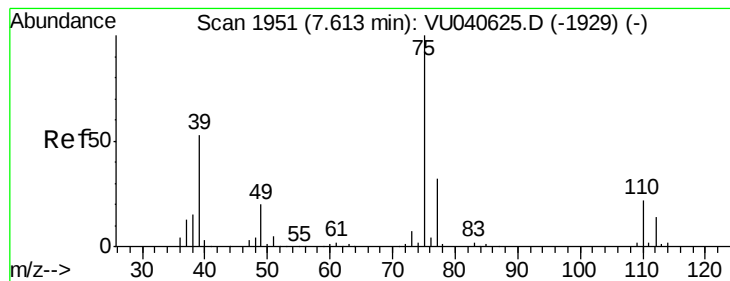
Tot Ion: 63 Resp: 5606
 Ion Ratio Lower Upper
 63 100
 112 2.5 3.5 5.3#



#38
 Bromodichloromethane
 Concen: 2.284 ug/L
 RT: 7.12 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VU040631.D
 Acq: 10 Oct 2020 13:05

Tgt Ion: 83 Resp: 6851
 Ion Ratio Lower Upper
 83 100
 85 65.8 45.2 84.0
 127 6.5 6.7 10.1#



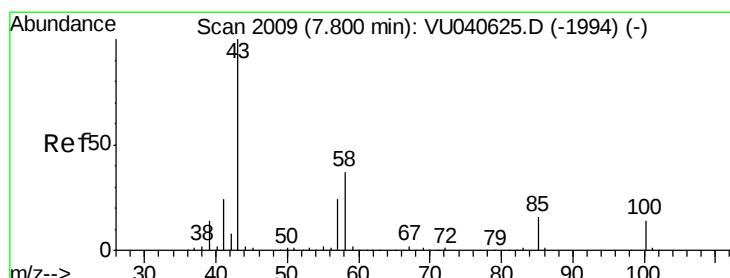
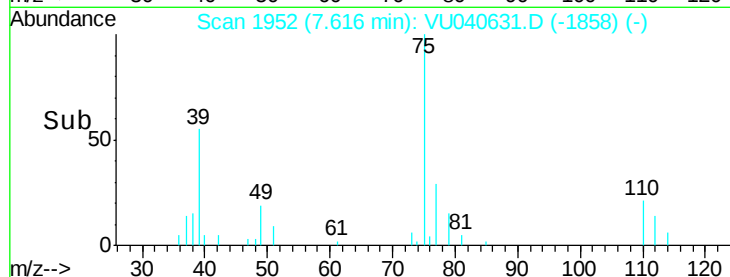
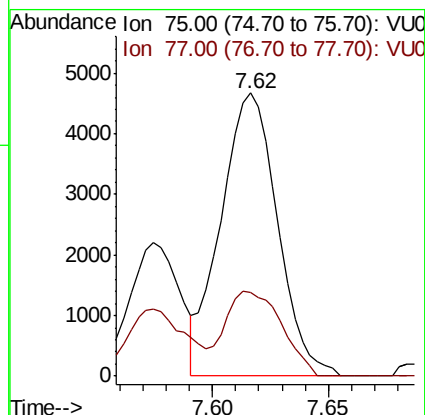
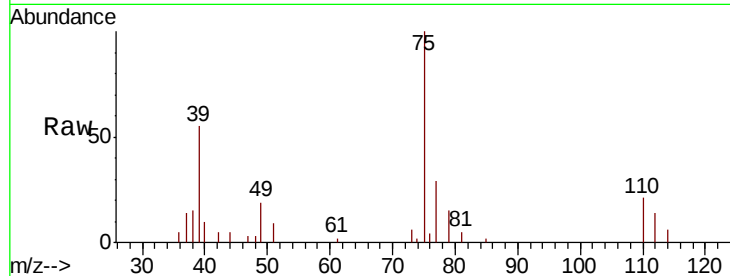


#39

cis-1,3-Dichloropropene
Concen: 2.342 ug/L
RT: 7.62 min Scan# 1952
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-07

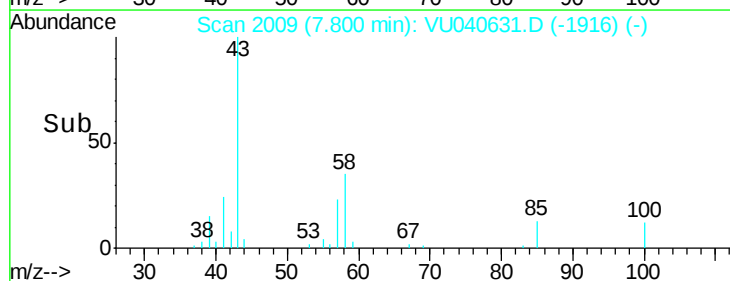
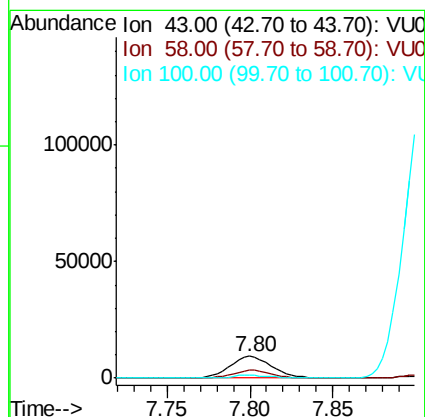
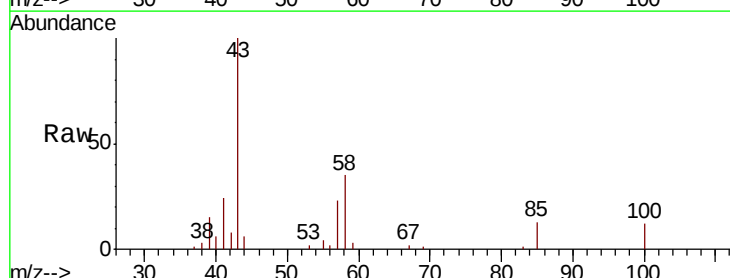
Tot Ion: 75 Resp: 7928
Ion Ratio Lower Upper
75 100
77 29.4 21.4 39.8

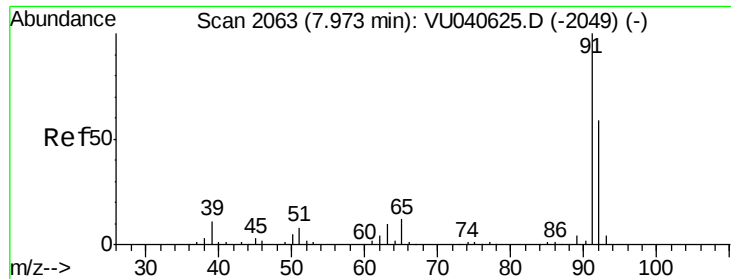


#40

4-Methyl-2-pentanone
Concen: 4.511 ug/L
RT: 7.80 min Scan# 2009
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

Tgt Ion: 43 Resp: 16439
Ion Ratio Lower Upper
43 100
58 34.5 29.7 44.5
100 11.5 10.5 15.7





#42

Toluene

Concen: 2.208 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

Instrument :

MSVOA_U

ClientSampleId :

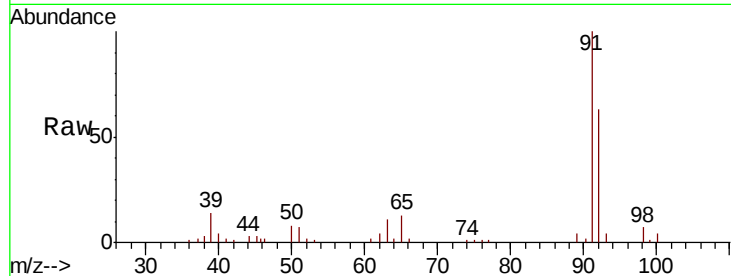
MDL-ME-SOIL-07

Tot Ion: 91 Resp: 18961

Ion Ratio Lower Upper

91 100

92 62.7 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.98

12000

10000

8000

6000

4000

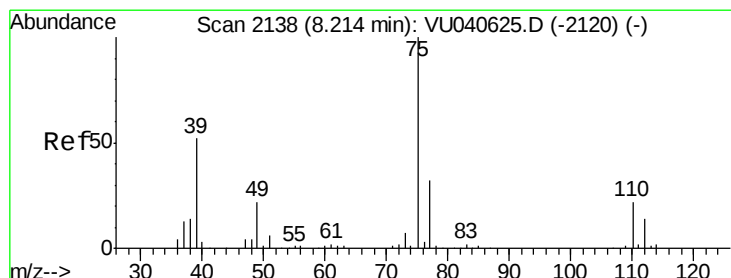
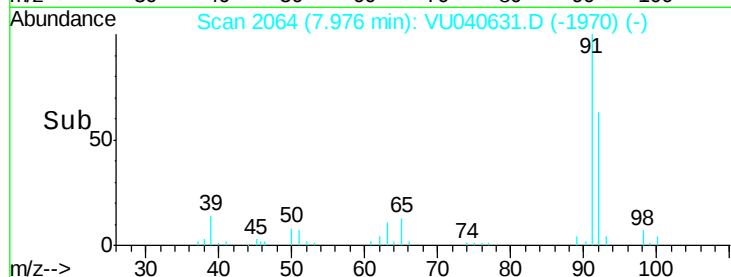
2000

0

7.95

8.00

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.309 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU040631.D

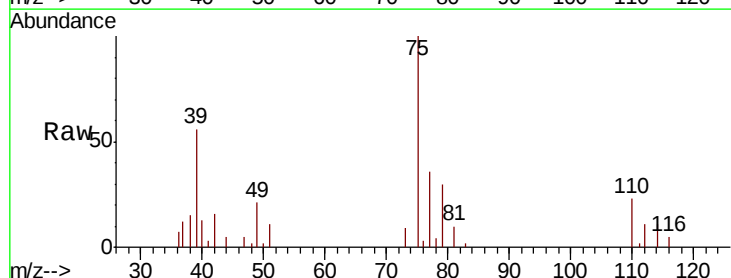
Acq: 10 Oct 2020 13:05

Tgt Ion: 75 Resp: 7869

Ion Ratio Lower Upper

75 100

77 35.9 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

8.22

5000

4000

3000

2000

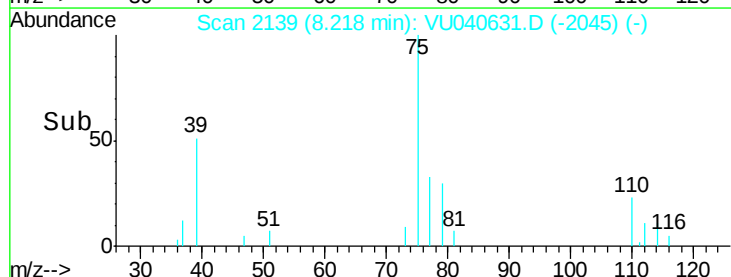
1000

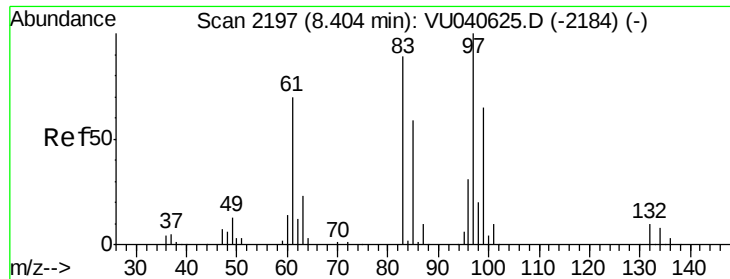
0

8.20

8.25

Time-->

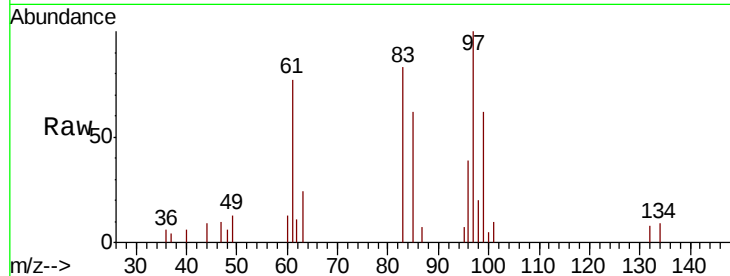




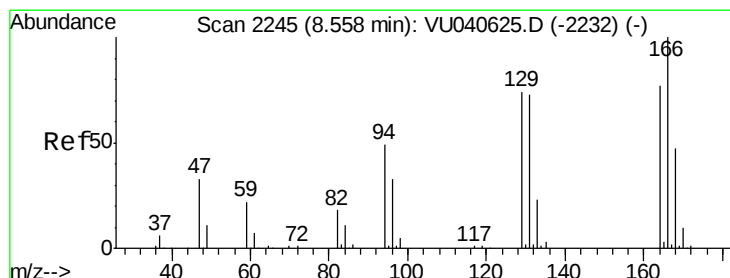
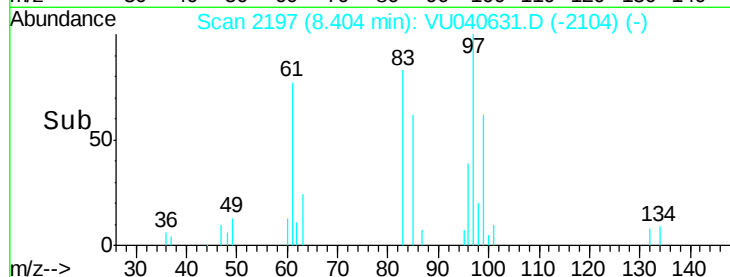
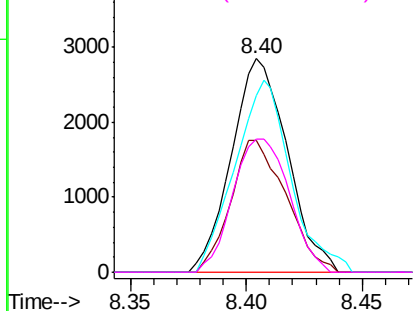
#45
 1,1,2-Trichloroethane
 Concen: 2.306 ug/L
 RT: 8.40 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VU040631.D
 Acq: 10 Oct 2020 13:05

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-07

Tot Ion: 97 Resp: 4771
 Ion Ratio Lower Upper
 97 100
 99 61.9 42.7 79.3
 83 82.9 61.0 113.4
 85 62.4 39.8 73.8

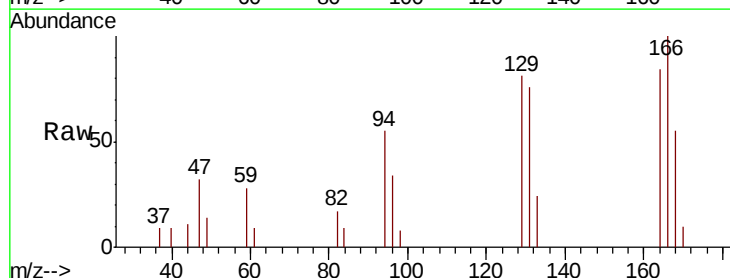


Abundance Ion 97.00 (96.70 to 97.70): VU040631.D (-2104) (-)
 Ion 99.00 (98.70 to 99.70): VU040631.D (-2104) (-)
 Ion 83.00 (82.70 to 83.70): VU040631.D (-2104) (-)
 Ion 85.00 (84.70 to 85.70): VU040631.D (-2104) (-)

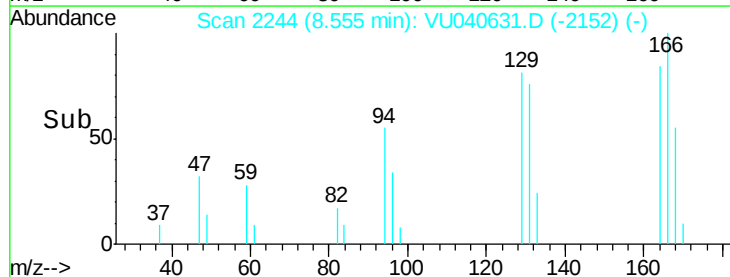
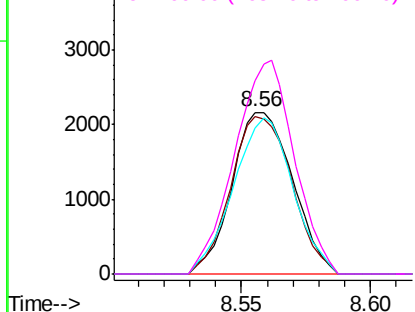


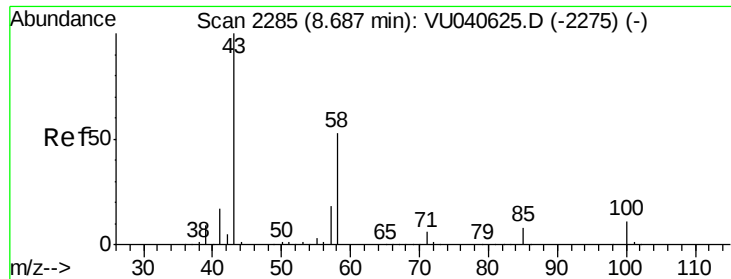
#46
 Tetrachloroethene
 Concen: 2.269 ug/L
 RT: 8.56 min Scan# 2244
 Delta R.T. -0.00 min
 Lab File: VU040631.D
 Acq: 10 Oct 2020 13:05

Tgt Ion: 164 Resp: 3552
 Ion Ratio Lower Upper
 164 100
 129 97.2 67.4 125.2
 131 90.4 63.8 118.6
 166 119.6 88.7 164.7



Abundance Ion 164.00 (163.70 to 164.70): VU040631.D (-2152) (-)
 Ion 129.00 (128.70 to 129.70): VU040631.D (-2152) (-)
 Ion 131.00 (130.70 to 131.70): VU040631.D (-2152) (-)
 Ion 166.00 (165.70 to 166.70): VU040631.D (-2152) (-)

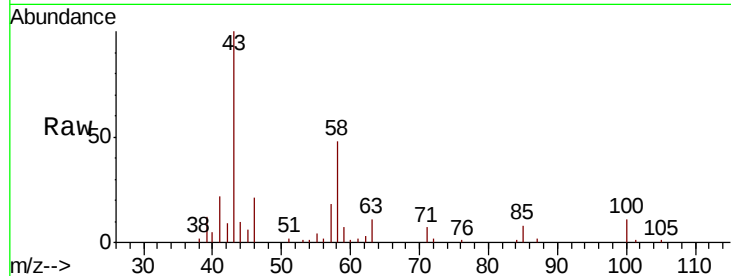




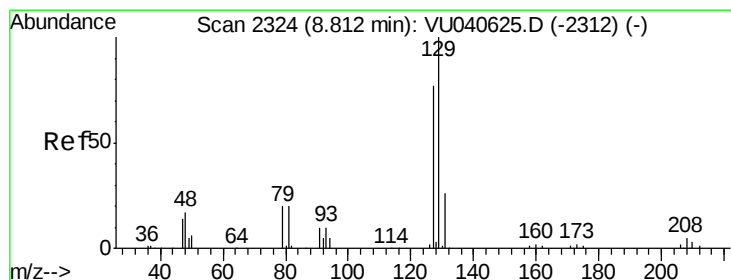
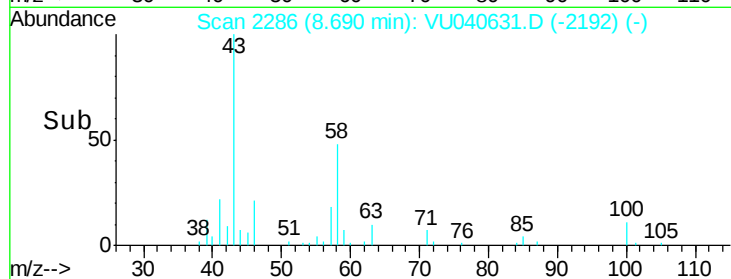
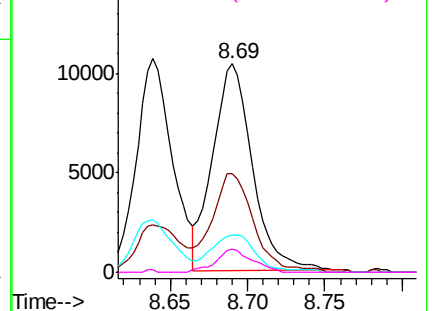
#48
2-Hexanone
Concen: 6.312 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-07

Tot Ion: 43 Resp: 18694
Ion Ratio Lower Upper
43 100
58 49.9 40.6 60.8
57 19.6 14.3 21.5
100 9.9 8.5 12.7

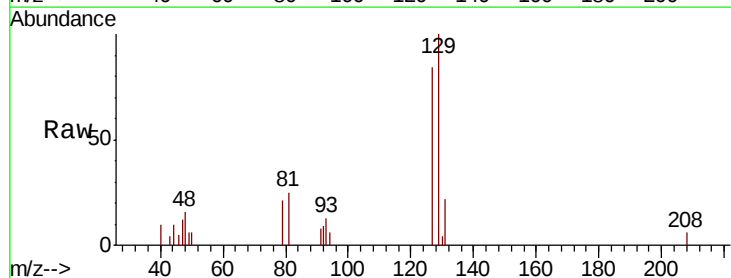


Abundance Ion 43.00 (42.70 to 43.70): VU040631.D (-2192) (-)
Ion 58.00 (57.70 to 58.70): VU040631.D (-2192) (-)
Ion 57.00 (56.70 to 57.70): VU040631.D (-2192) (-)
Ion 100.00 (99.70 to 100.70): VU040631.D (-2192) (-)

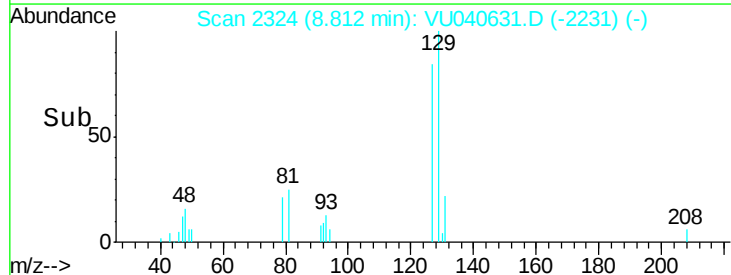
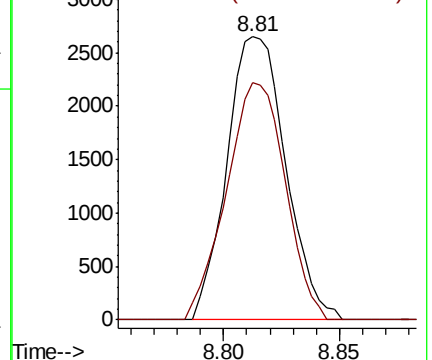


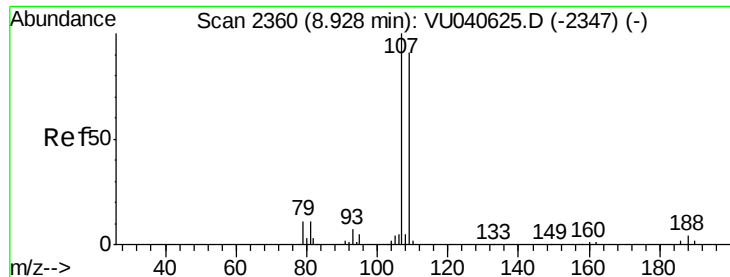
#49
Dibromochloromethane
Concen: 2.071 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

Tgt Ion: 129 Resp: 4678
Ion Ratio Lower Upper
129 100
127 83.9 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): VU040631.D (-2231) (-)
Ion 127.00 (126.70 to 127.70): VU040631.D (-2231) (-)

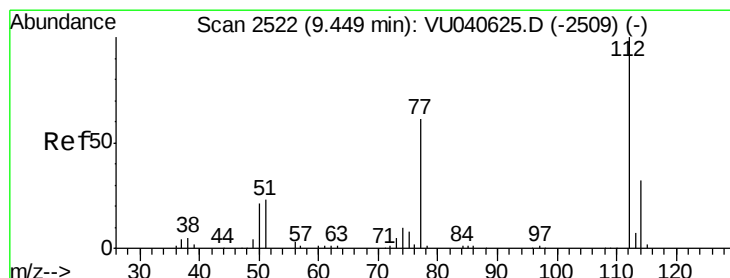
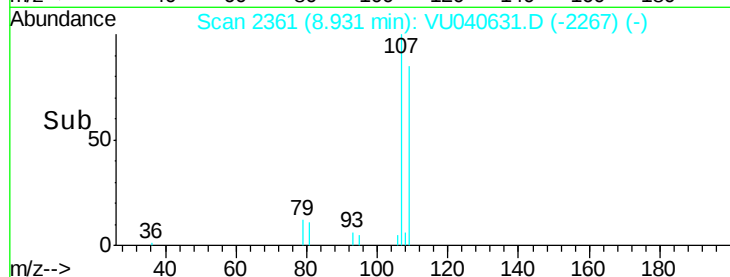
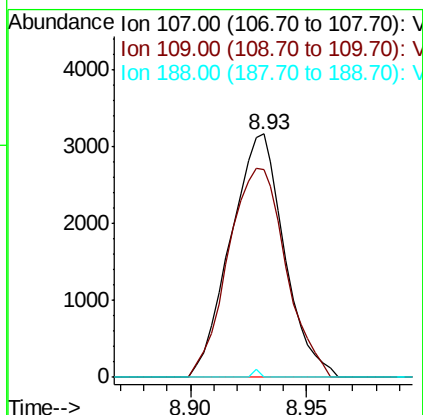
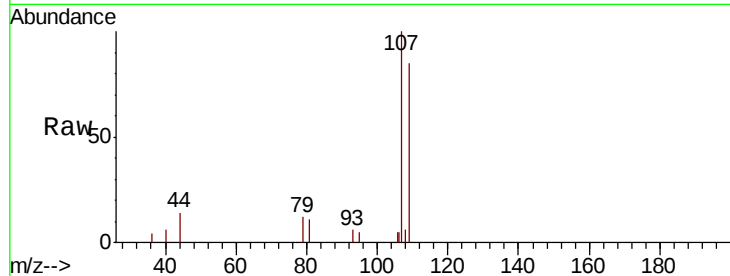




#50
1,2-Dibromoethane
Concen: 2.325 ug/L
RT: 8.93 min Scan# 2361
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

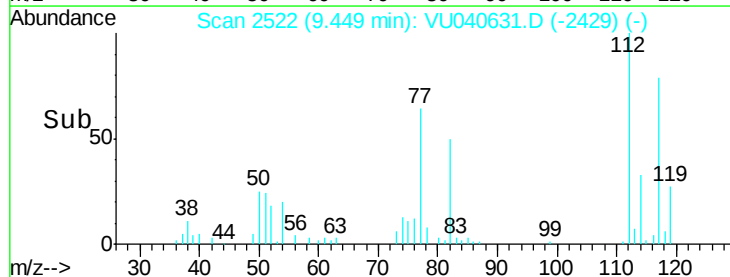
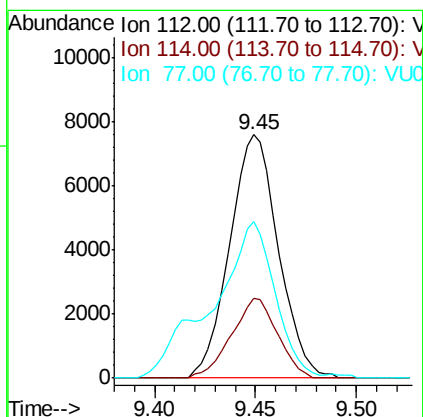
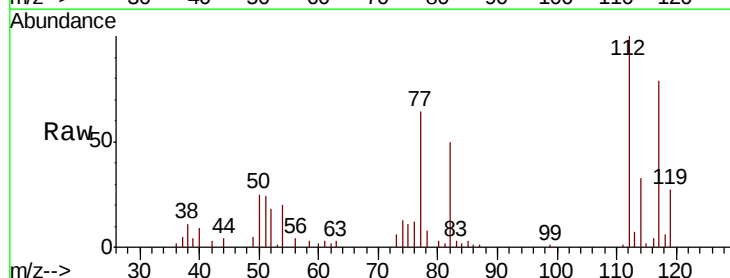
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-07

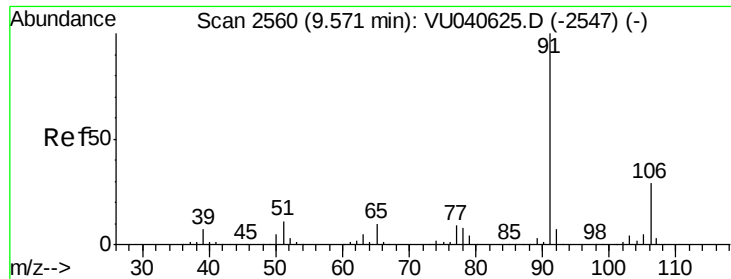
Tot Ion:107 Resp: 5099
Ion Ratio Lower Upper
107 100
109 85.3 67.8 125.8
188 0.0 2.8 4.2#



#51
Chlorobenzene
Concen: 2.275 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

Tgt Ion:112 Resp: 12810
Ion Ratio Lower Upper
112 100
114 32.9 22.1 41.1
77 64.2 50.4 75.6

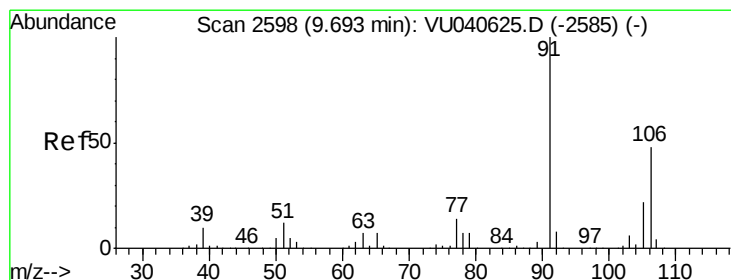
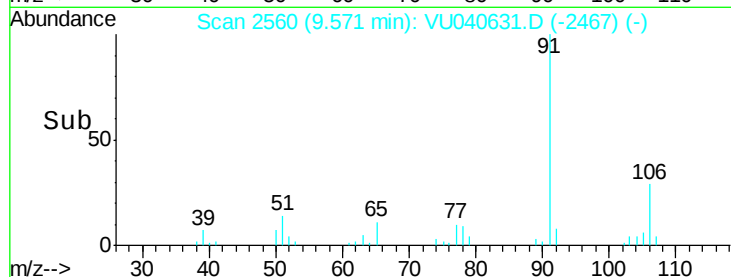
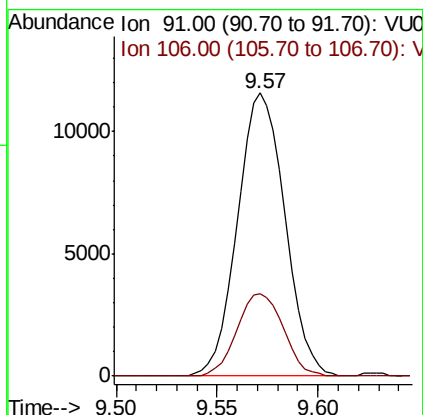
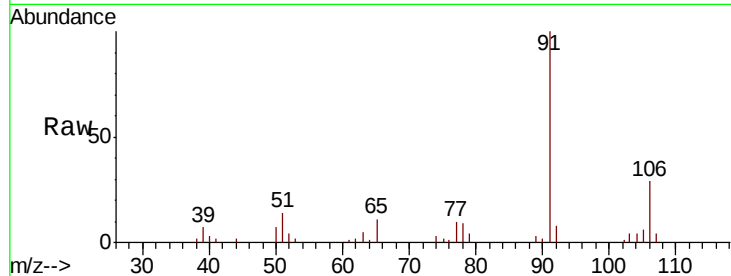




#52
Ethylbenzene
Concen: 2.002 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

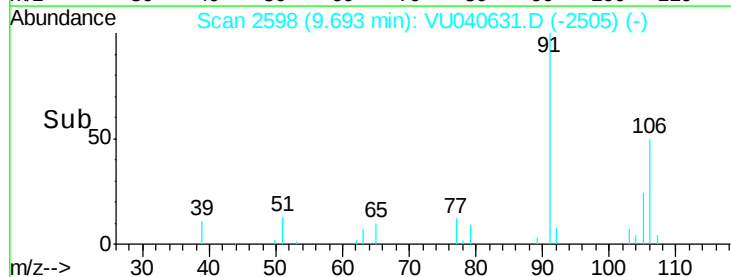
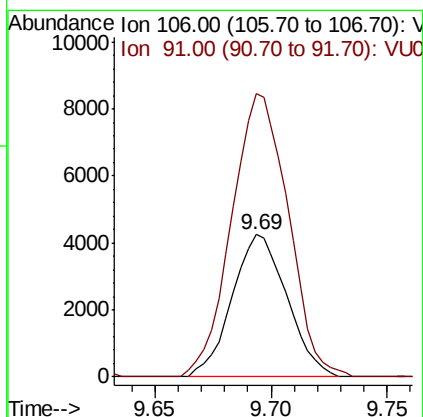
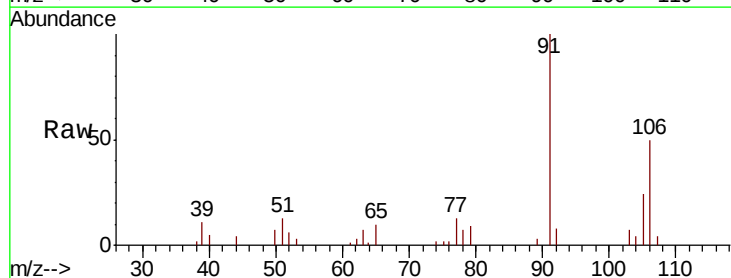
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-07

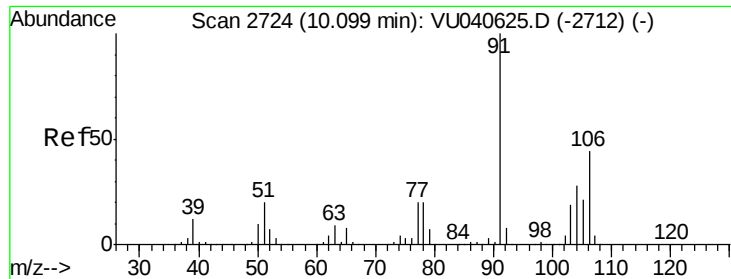
Tot Ion: 91 Resp: 19074
Ion Ratio Lower Upper
91 100
106 29.3 20.9 38.9



#53
m,p-Xylene
Concen: 1.990 ug/L
RT: 9.69 min Scan# 2598
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

Tgt Ion: 106 Resp: 6985
Ion Ratio Lower Upper
106 100
91 199.1 150.1 278.7





#54

o-xylene

Concen: 1.744 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

Instrument :

MSVOA_U

ClientSampleId :

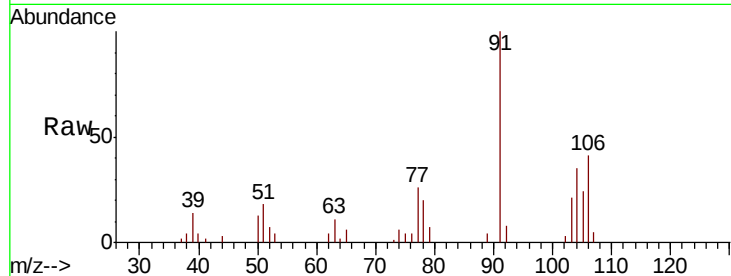
MDL-ME-SOIL-07

Tot Ion:106 Resp: 5822

Ion Ratio Lower Upper

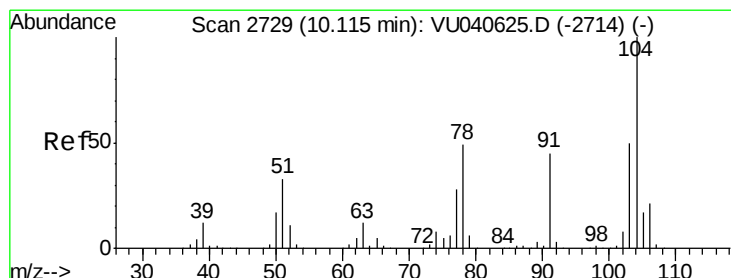
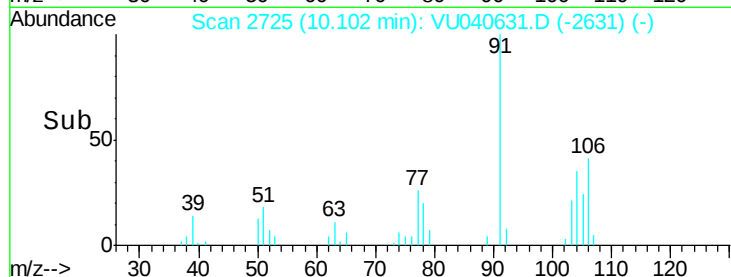
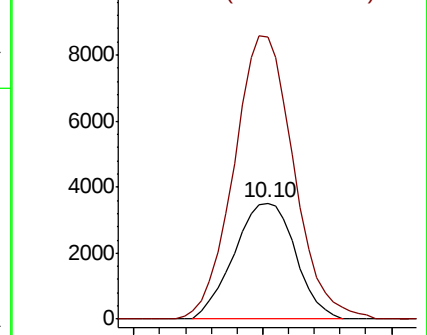
106 100

91 244.1 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.801 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. 0.00 min

Lab File: VU040631.D

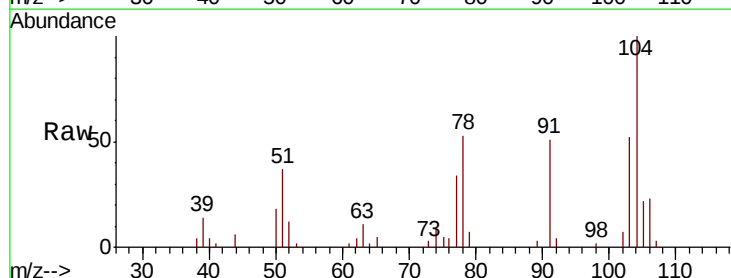
Acq: 10 Oct 2020 13:05

Tgt Ion:104 Resp: 10590

Ion Ratio Lower Upper

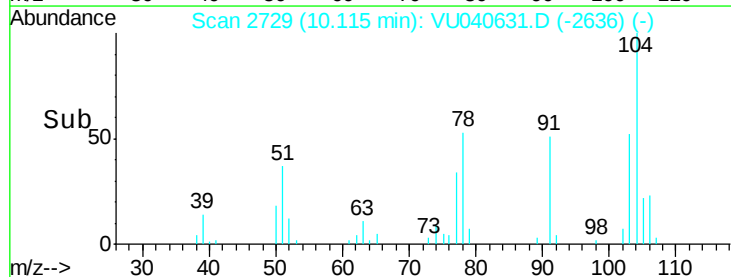
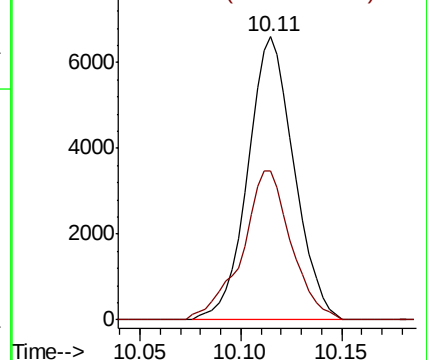
104 100

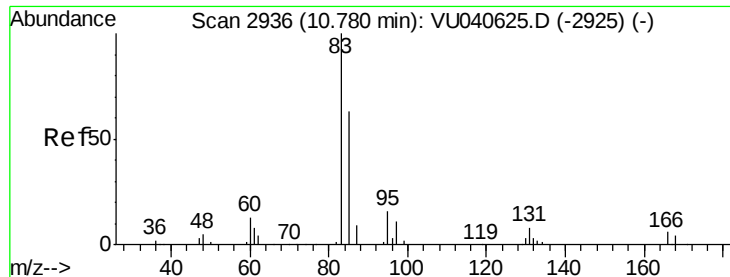
78 52.5 35.2 65.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

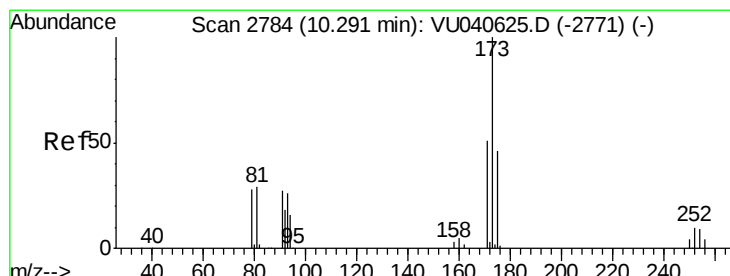
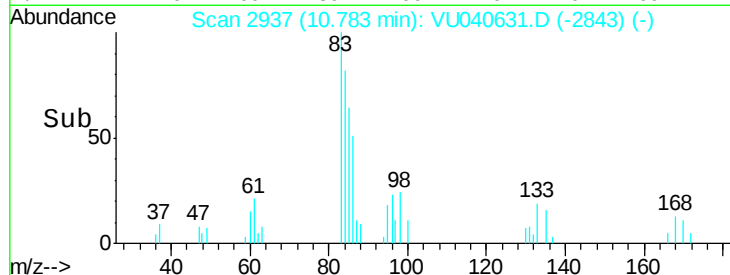
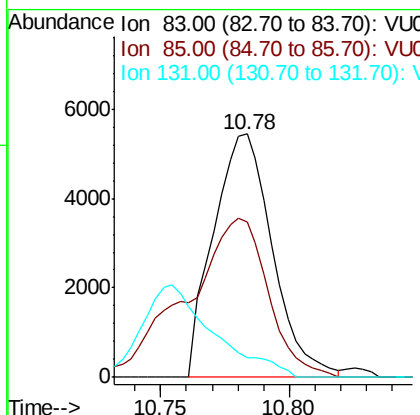
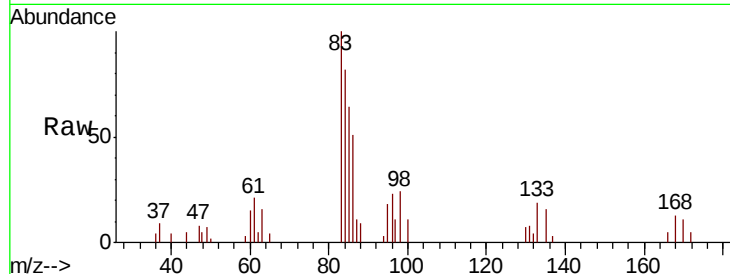




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.373 ug/L
 RT: 10.78 min Scan# 2937
 Delta R.T. 0.00 min
 Lab File: VU040631.D
 Acq: 10 Oct 2020 13:05

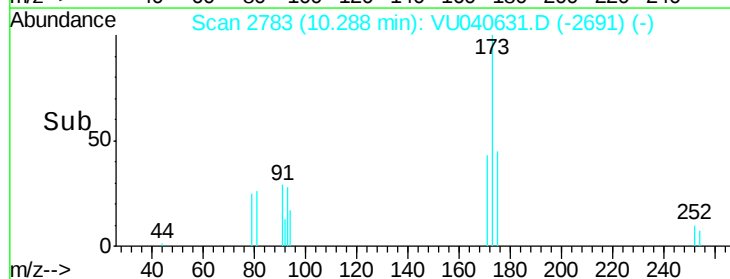
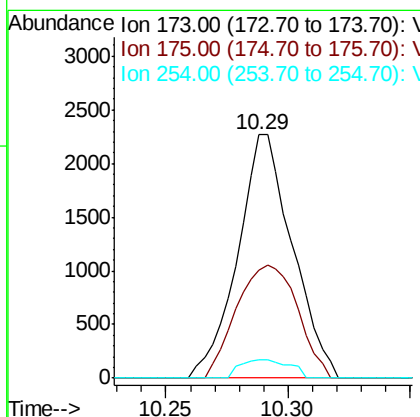
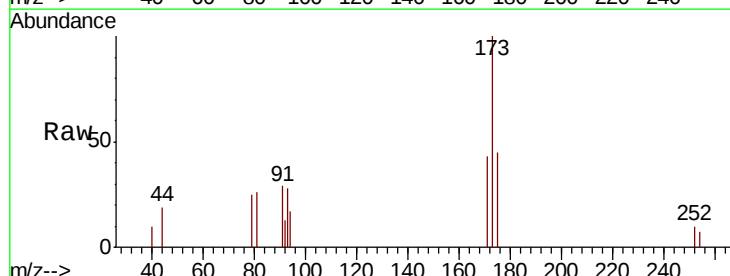
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-07

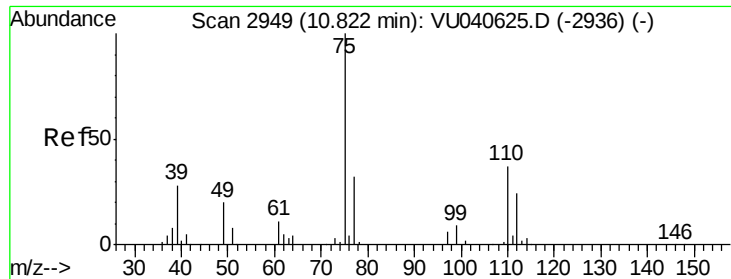
Tot Ion: 83 Resp: 8680
 Ion Ratio Lower Upper
 83 100
 85 63.8 44.2 82.2
 131 8.2 7.1 10.7



#59
 Bromoform
 Concen: 2.272 ug/L
 RT: 10.29 min Scan# 2783
 Delta R.T. -0.00 min
 Lab File: VU040631.D
 Acq: 10 Oct 2020 13:05

Tgt Ion: 173 Resp: 3520
 Ion Ratio Lower Upper
 173 100
 175 52.0 38.5 57.7
 254 6.2 7.0 10.6#

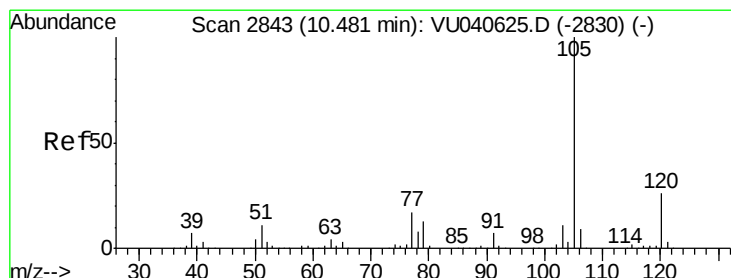
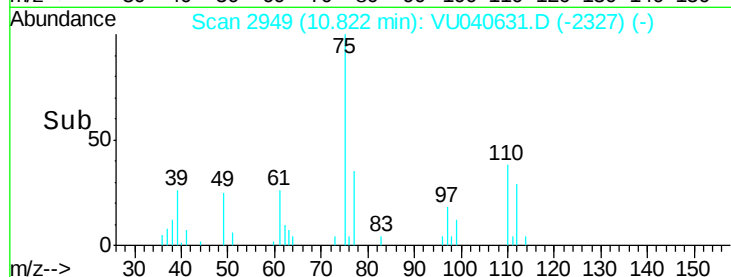
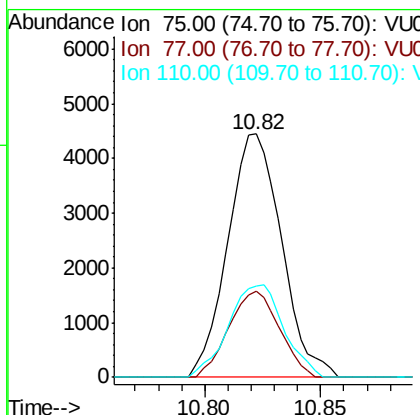
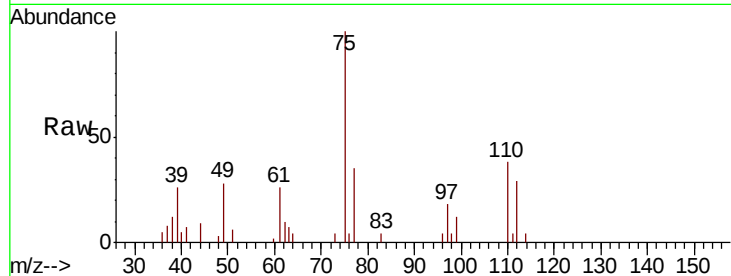




#60
1,2,3-Trichloropropane
Concen: 2.495 ug/L
RT: 10.82 min Scan# 2949
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

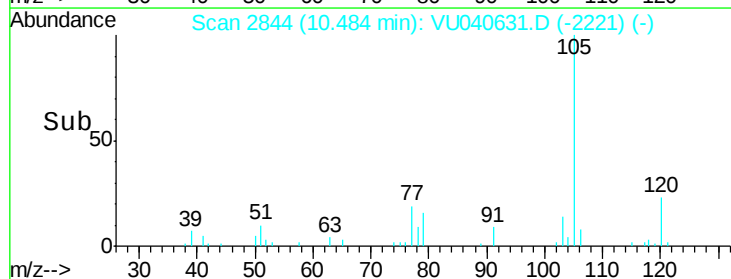
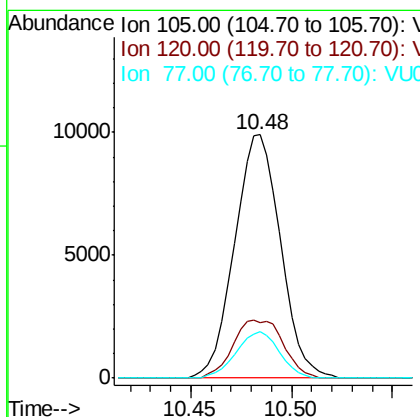
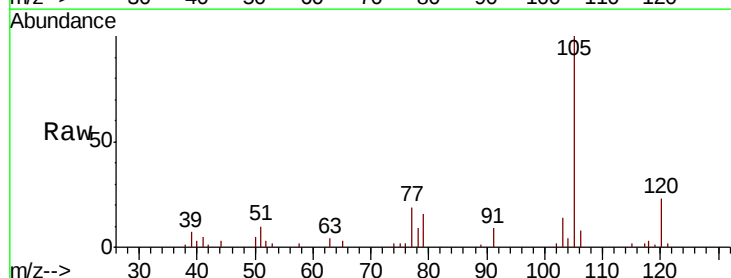
Instrument :
MSVOA_U
ClientSampleId :
MDL-ME-SOIL-07

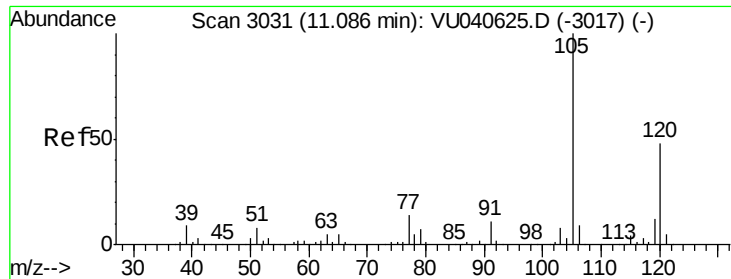
Tot Ion: 75 Resp: 7163
Ion Ratio Lower Upper
75 100
77 33.3 26.4 39.6
110 39.2 30.1 45.1



#61
Isopropylbenzene
Concen: 1.862 ug/L
RT: 10.48 min Scan# 2844
Delta R.T. 0.00 min
Lab File: VU040631.D
Acq: 10 Oct 2020 13:05

Tgt Ion: 105 Resp: 15807
Ion Ratio Lower Upper
105 100
120 15.1 20.7 31.1#
77 18.0 13.8 20.8





#62

1,3,5-Trimethylbenzene

Concen: 1.770 ug/L

RT: 11.09 min Scan# 3031

Delta R.T. 0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

Instrument :

MSVOA_U

ClientSampleId :

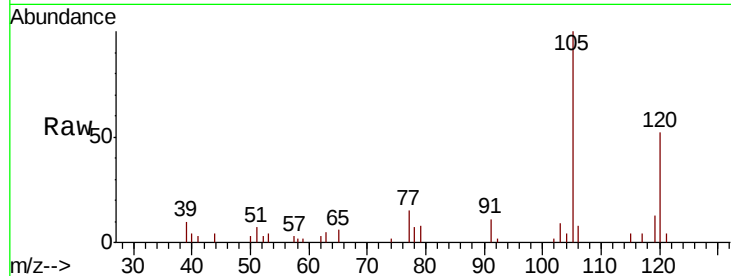
MDL-ME-SOIL-07

Tot Ion:105 Resp: 12342

Ion Ratio Lower Upper

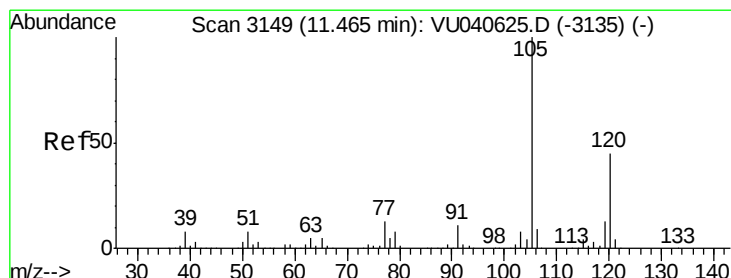
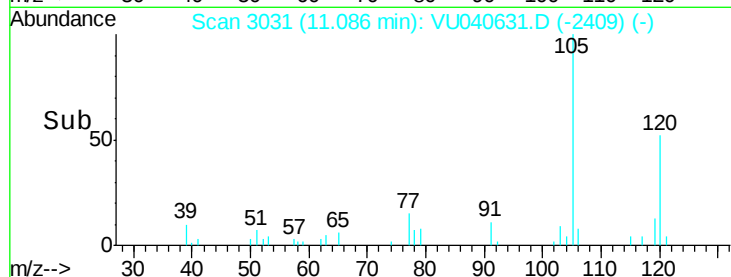
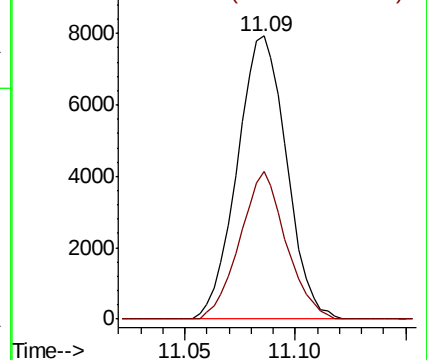
105 100

120 48.8 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: 1.683 ug/L

RT: 11.46 min Scan# 3148

Delta R.T. -0.00 min

Lab File: VU040631.D

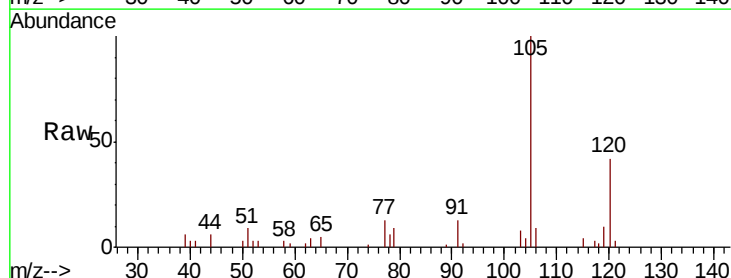
Acq: 10 Oct 2020 13:05

Tgt Ion:105 Resp: 11901

Ion Ratio Lower Upper

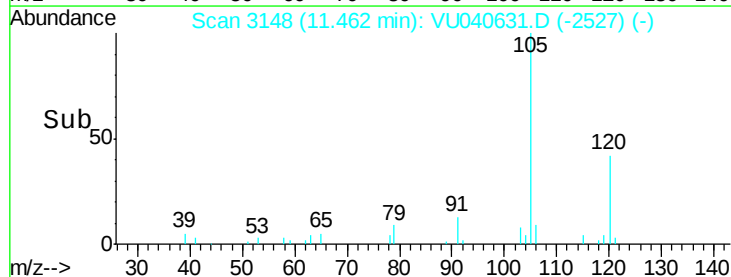
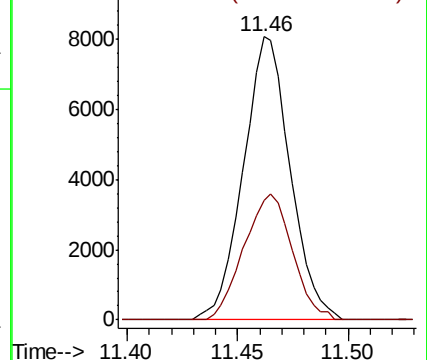
105 100

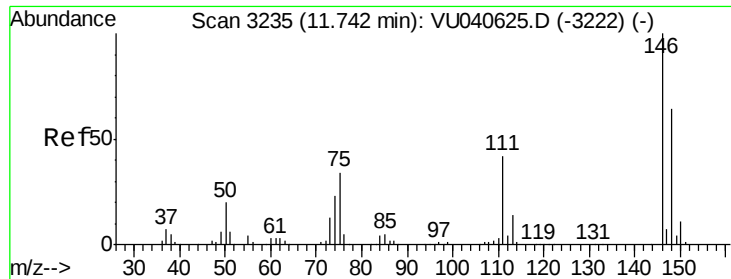
120 45.8 35.7 53.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 2.142 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-07

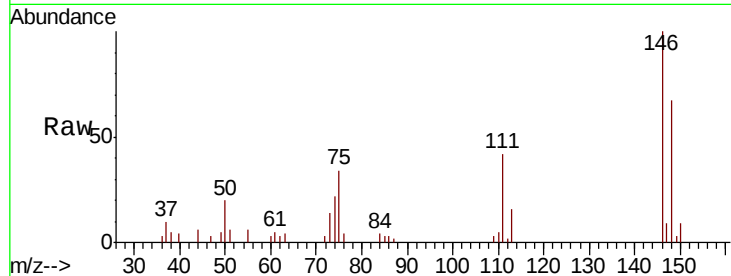
Tot Ion:146 Resp: 8865

Ion Ratio Lower Upper

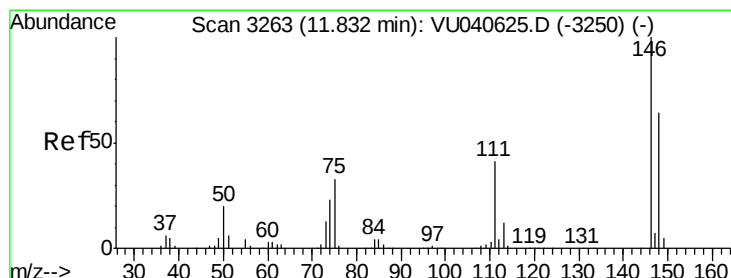
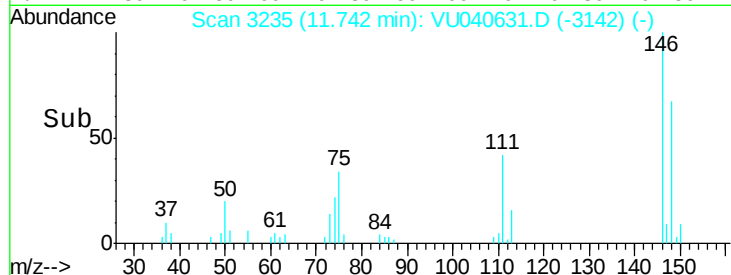
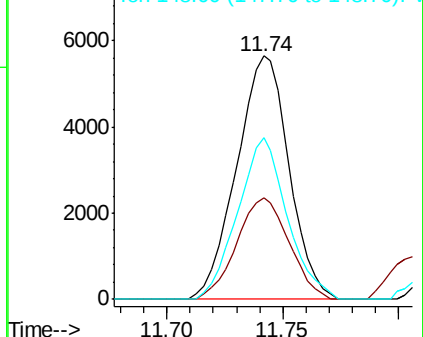
146 100

111 41.6 30.8 57.2

148 66.6 45.4 84.2



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 2.208 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

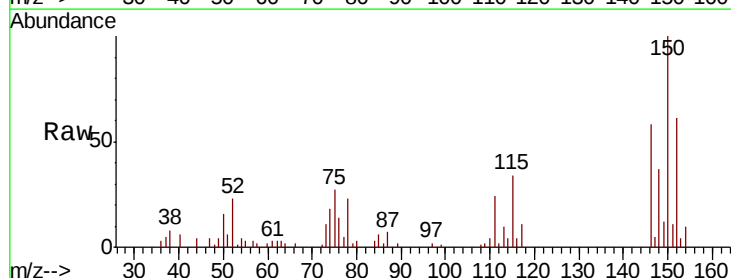
Tgt Ion:146 Resp: 9598

Ion Ratio Lower Upper

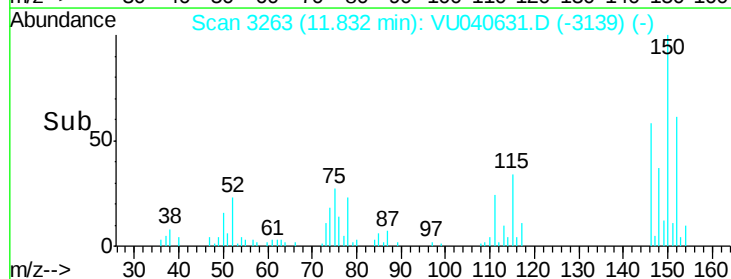
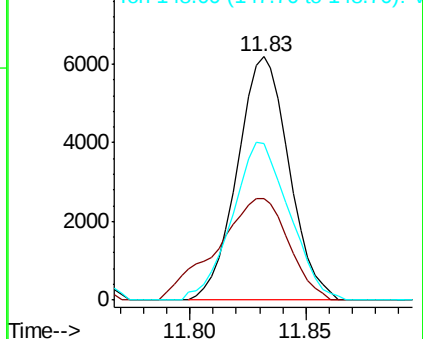
146 100

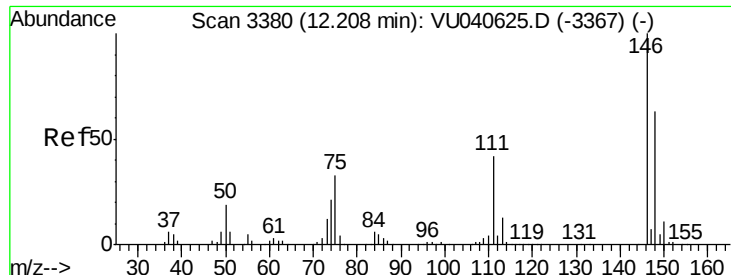
111 41.9 28.7 53.3

148 64.1 44.1 81.9



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





#67

1,2-Dichlorobenzene

Concen: 2.503 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-07

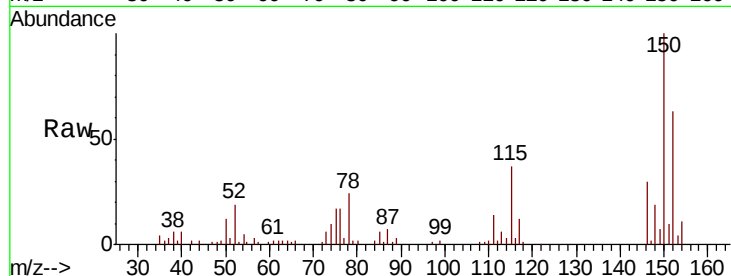
Tot Ion:146 Resp: 10378

Ion Ratio Lower Upper

146 100

111 48.6 35.7 53.5

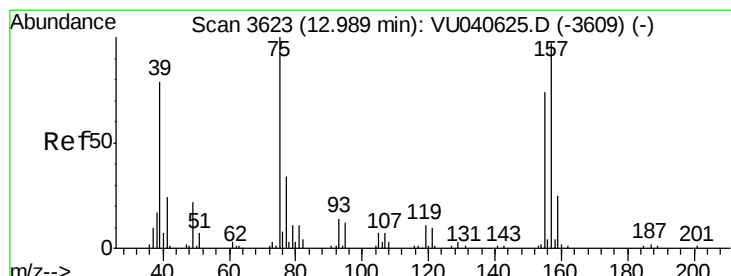
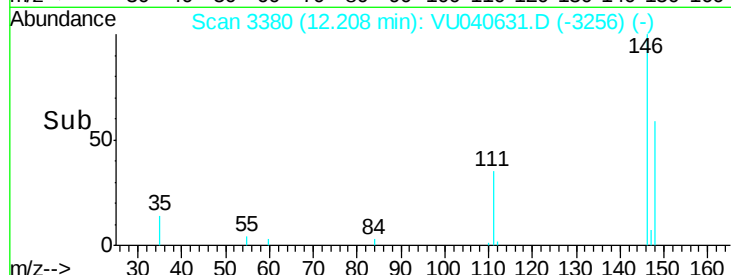
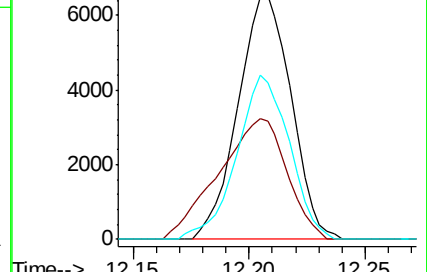
148 64.5 50.6 75.8



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: 2.273 ug/L

RT: 12.99 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

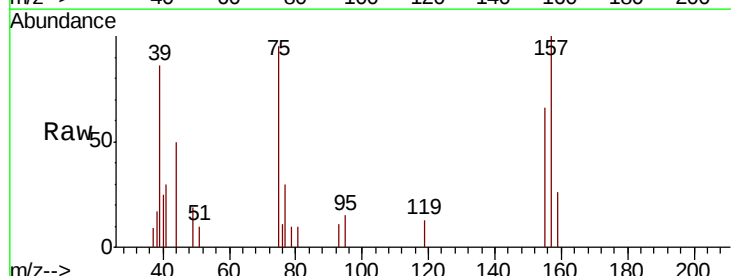
Tgt Ion: 75 Resp: 1833

Ion Ratio Lower Upper

75 100

155 69.9 61.0 91.6

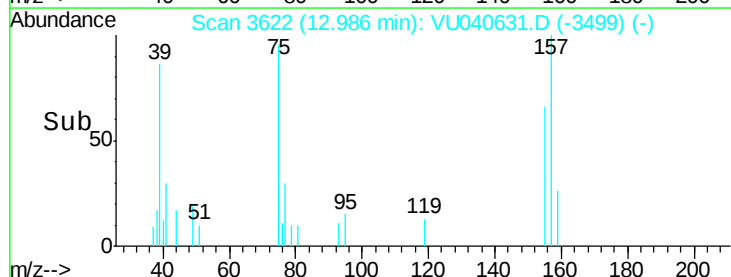
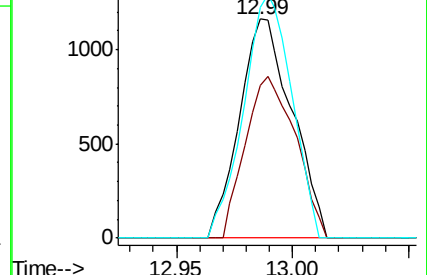
157 105.2 73.5 110.3

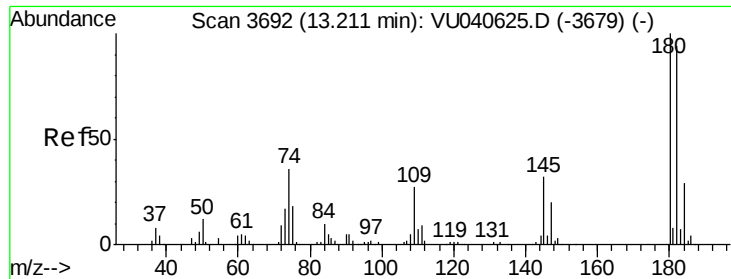


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

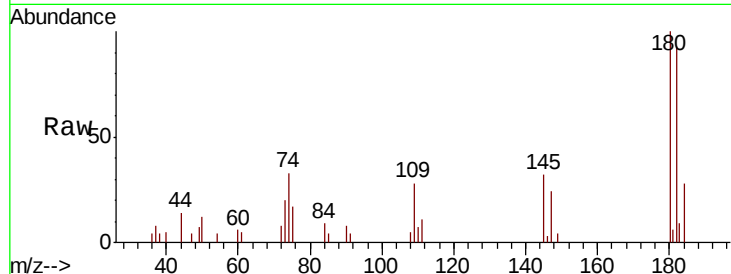




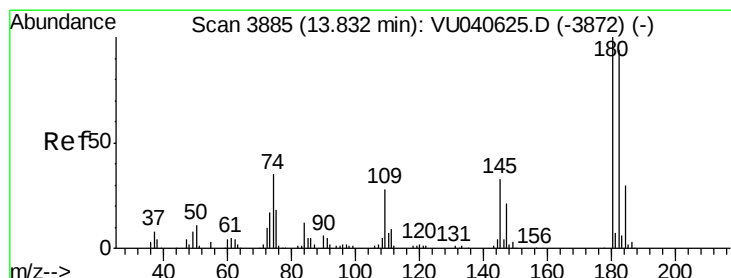
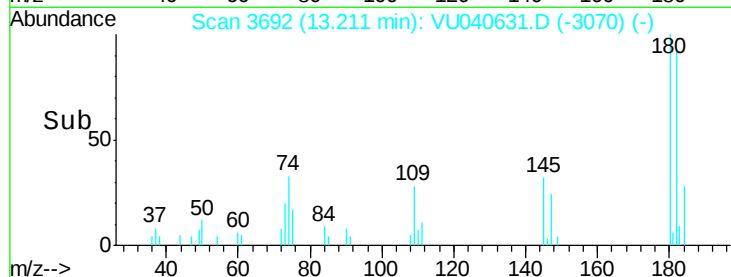
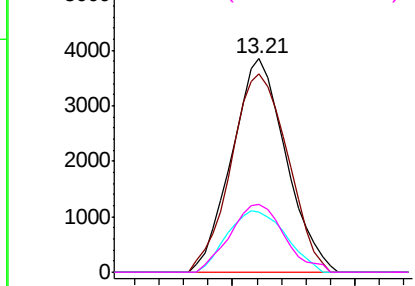
#69
 1,3,5-Trichlorobenzene
 Concen: 2.190 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU040631.D
 Acq: 10 Oct 2020 13:05

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-ME-SOIL-07

Tot Ion:180 Resp: 5938
 Ion Ratio Lower Upper
 180 100
 182 97.1 76.9 115.3
 184 31.2 24.2 36.2
 145 31.9 25.4 38.2

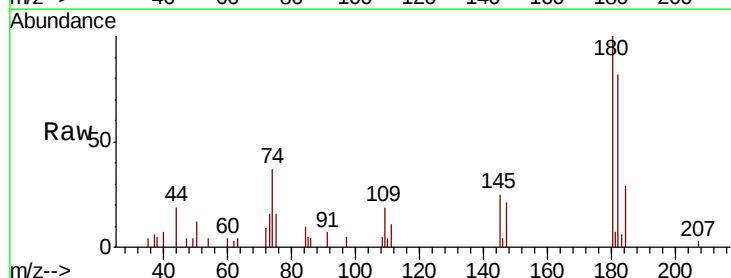


Abundance Ion 180.00 (179.70 to 180.70): V
 6000
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

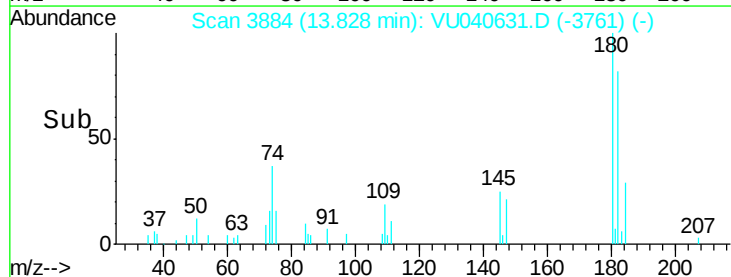
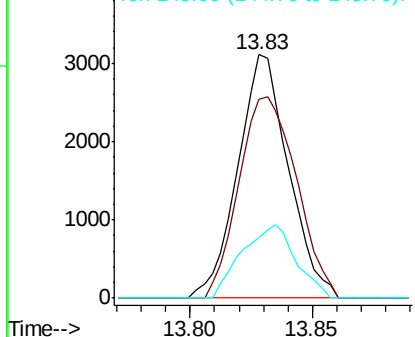


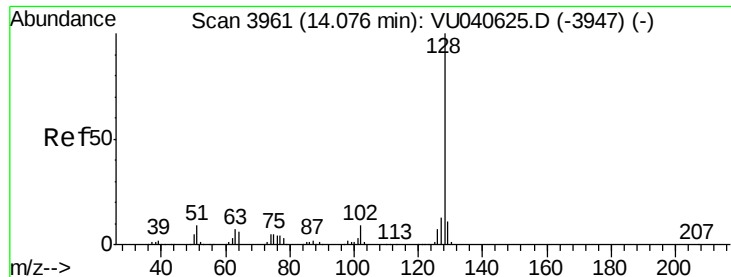
#70
 1,2,4-trichlorobenzene
 Concen: 1.904 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU040631.D
 Acq: 10 Oct 2020 13:05

Tgt Ion:180 Resp: 4474
 Ion Ratio Lower Upper
 180 100
 182 93.9 75.0 112.6
 145 32.1 25.9 38.9



Abundance Ion 180.00 (179.70 to 180.70): V
 4000
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#71

Naphthalene

Concen: 1.301 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

Instrument :

MSVOA_U

ClientSampleId :

MDL-ME-SOIL-07

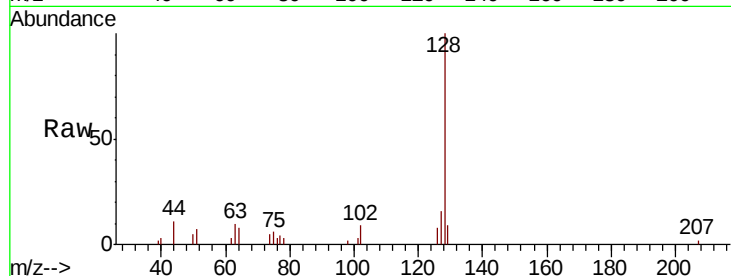
Tot Ion:128 Resp: 9451

Ion Ratio Lower Upper

128 100

127 13.6 10.5 15.7

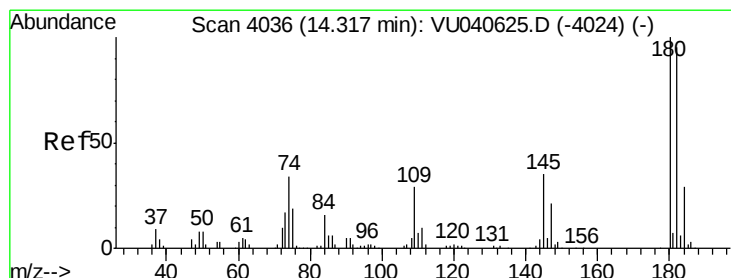
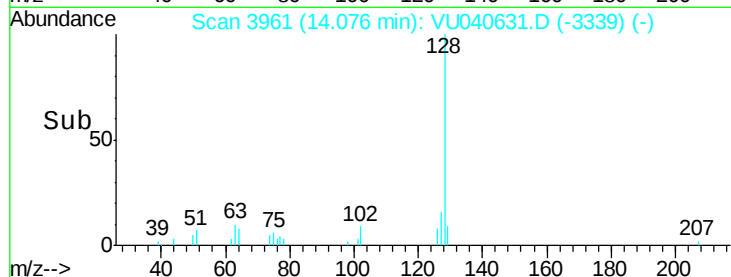
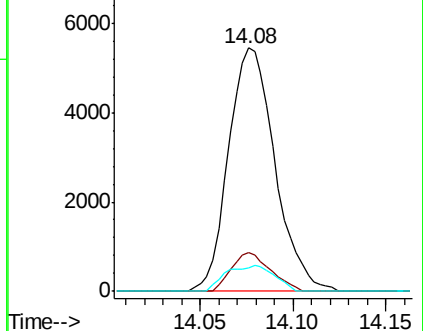
129 6.4 8.6 13.0#



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: 1.815 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. 0.00 min

Lab File: VU040631.D

Acq: 10 Oct 2020 13:05

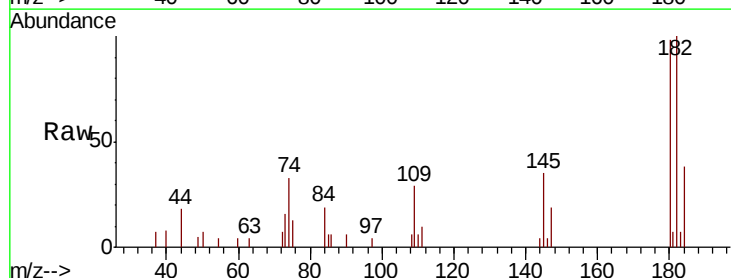
Tgt Ion:180 Resp: 4234

Ion Ratio Lower Upper

180 100

182 97.8 77.7 116.5

145 35.5 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

