

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110420\
 Data File : VV019236.D
 Acq On : 03 Nov 2020 15:12
 Operator : SY/MD
 Sample : L4485-19
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

Quant Time: Nov 04 07:14:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 04 07:03:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	243642	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	236225	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	121957	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	83679	44.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.00%
7) Chloroethane-d5	1.58	69	73135	49.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.28%
11) 1,1-Dichloroethene-d2	2.12	63	133539	38.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	76.72%
21) 2-Butanone-d5	3.90	46	112673	108.68	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.68%
24) Chloroform-d	4.37	84	166494	47.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.62%
26) 1,2-Dichloroethane-d4	5.05	65	119482	48.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.46%
32) Benzene-d6	5.07	84	311864	47.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.62%
36) 1,2-Dichloropropane-d6	6.09	67	98514	50.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.16%
41) Toluene-d8	7.34	98	284840	46.88	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.76%
43) trans-1,3-Dichloropropene-	7.64	79	52486	47.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.20%
47) 2-Hexanone-d5	8.11	63	72901	96.42	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.42%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	120305	46.36	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.72%
66) 1,2-Dichlorobenzene-d4	11.65	152	121832	49.93	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.86%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	3408	2.283 ug/L	99
3) Chloromethane	1.25	50	3670	2.361 ug/L	96
5) Vinyl chloride	1.32	62	4432	2.739 ug/L #	65
6) Bromomethane	1.53	94	2911	2.677 ug/L	99
8) Chloroethane	1.60	64	2705	2.556 ug/L	89
9) Trichlorofluoromethane	1.77	101	6458	2.411 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4649	3.653 ug/L #	76
12) 1,1-Dichloroethene	2.13	96	4231	3.217 ug/L #	1
13) Acetone	2.19	43	4510	5.720 ug/L	99
14) Carbon disulfide	2.31	76	9378	2.483 ug/L	98
15) Methyl Acetate	2.45	43	3598	2.355 ug/L	94
16) Methylene chloride	2.52	84	4287	2.742 ug/L	90
17) trans-1,2-Dichloroethene	2.78	96	3455	2.421 ug/L	88
18) Methyl tert-butyl Ether	2.78	73	11183	2.230 ug/L	99
19) 1,1-Dichloroethane	3.22	63	6594	2.359 ug/L	96
20) cis-1,2-Dichloroethene	3.94	96	3794	2.406 ug/L	82
22) 2-Butanone	4.02	43	2077	2.075 ug/L	75

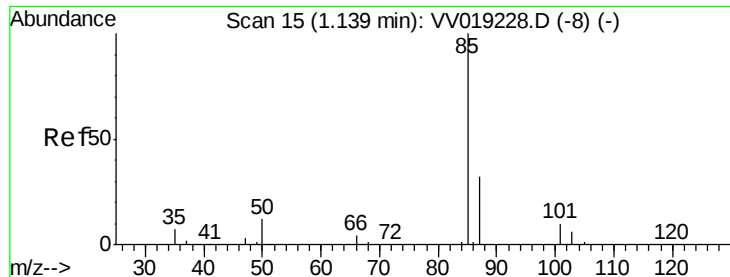
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	1996	2.299	ug/L	91
25) Chloroform	4.40	83	8455	2.821	ug/L	98
27) 1,2-Dichloroethane	5.16	62	6457	2.534	ug/L	99
29) Cyclohexane	4.70	56	4401	2.177	ug/L	86
30) 1,1,1-Trichloroethane	4.63	97	6203	2.264	ug/L	99
31) Carbon tetrachloride	4.86	117	5560	2.350	ug/L	97
33) Benzene	5.13	78	12468	2.124	ug/L	100
34) Trichloroethene	5.94	95	3897	2.443	ug/L	94
35) Methylcyclohexane	6.15	83	5055	2.618	ug/L	94
37) 1,2-Dichloropropane	6.20	63	3895	2.486	ug/L #	88
38) Bromodichloromethane	6.53	83	5085	2.255	ug/L	95
39) cis-1,3-Dichloropropene	7.05	75	5546	2.212	ug/L	97
40) 4-Methyl-2-pentanone	7.25	43	8655	4.112	ug/L	97
42) Toluene	7.42	91	16873	2.659	ug/L	98
44) trans-1,3-Dichloropropene	7.68	75	5692	2.216	ug/L	93
45) 1,1,2-Trichloroethane	7.87	97	3430	2.215	ug/L	94
46) Tetrachloroethene	8.00	164	3008	2.311	ug/L	91
48) 2-Hexanone	8.16	43	10045	6.313	ug/L #	91
49) Dibromochloromethane	8.27	129	4237	2.294	ug/L	92
50) 1,2-Dibromoethane	8.38	107	3802	2.369	ug/L #	92
51) Chlorobenzene	8.90	112	10211	2.406	ug/L	97
52) Ethylbenzene	9.04	91	15546	2.221	ug/L	98
53) m,p-Xylene	9.16	106	5827	2.223	ug/L	91
54) o-Xylene	9.57	106	5441	2.106	ug/L	98
55) Styrene	9.59	104	9047	1.967	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.26	83	5476	2.337	ug/L	89
59) Bromoform	9.76	173	2911	2.151	ug/L #	94
60) Isopropylbenzene	9.95	105	14019	2.193	ug/L	98
61) 1,2,3-Trichloropropane	10.30	75	4525	2.388	ug/L	97
62) 1,3,5-Trimethylbenzene	10.56	105	11126	2.090	ug/L	91
63) 1,2,4-Trimethylbenzene	10.94	105	10844	2.082	ug/L	99
64) 1,3-Dichlorobenzene	11.21	146	8046	2.407	ug/L	95
65) 1,4-Dichlorobenzene	11.29	146	8747	2.529	ug/L	97
67) 1,2-Dichlorobenzene	11.67	146	8657	2.531	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.46	75	1121	2.028	ug/L #	82
69) 1,3,5-Trichlorobenzene	12.67	180	5548	2.312	ug/L	98
70) 1,2,4-trichlorobenzene	13.29	180	4608	2.041	ug/L	98
71) Naphthalene	13.53	128	9769	1.534	ug/L	98
72) 1,2,3-Trichlorobenzene	13.77	180	4750	2.122	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 2.283 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

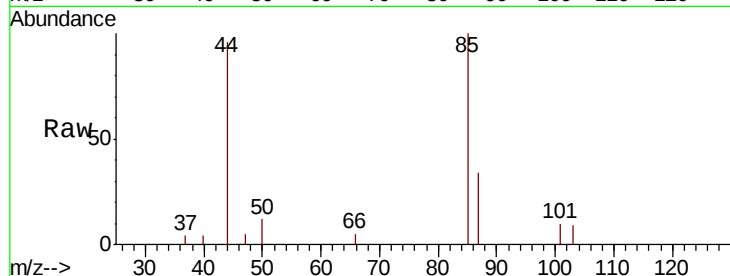
MDL-ME-SOIL-05

Tot Ion: 85 Resp: 3408

Ion Ratio Lower Upper

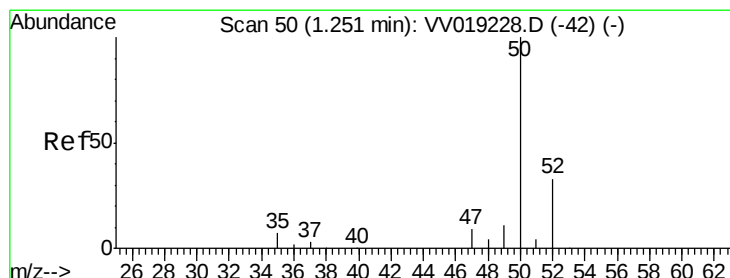
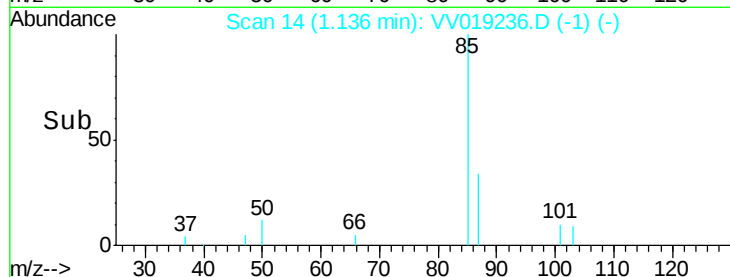
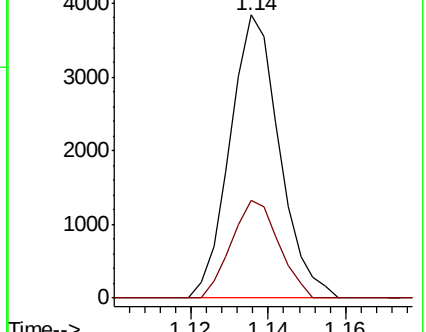
85 100

87 33.0 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV019228.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV019228.D (-8) (-)



#3

Chloromethane

Concen: 2.361 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019236.D

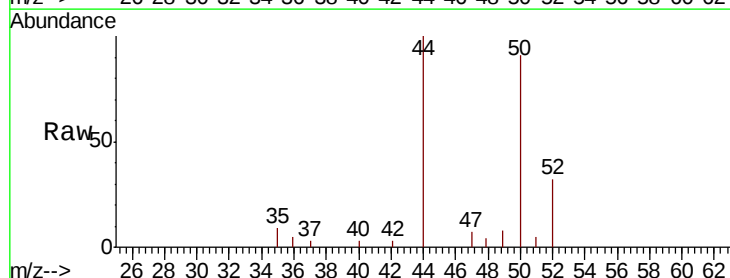
Acq: 03 Nov 2020 15:12

Tgt Ion: 50 Resp: 3670

Ion Ratio Lower Upper

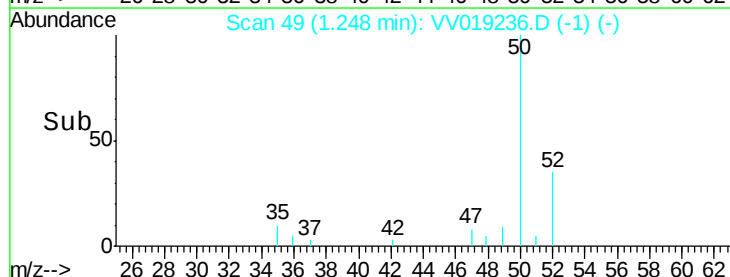
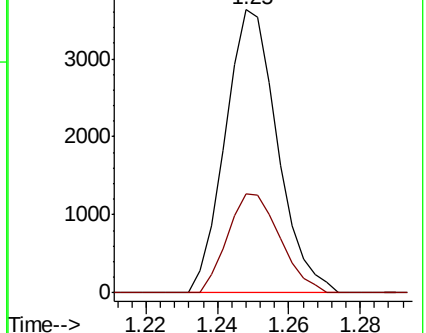
50 100

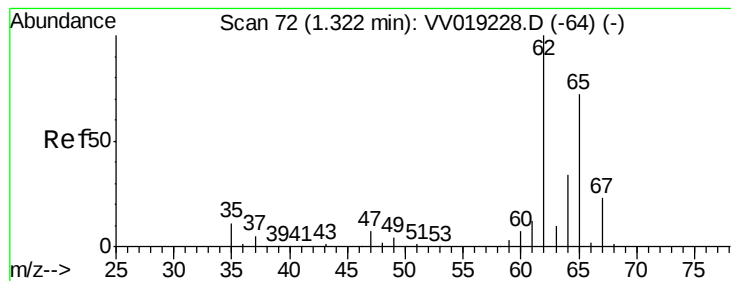
52 35.1 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV019228.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV019228.D (-42) (-)





#5

Vinyl chloride

Concen: 2.739 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

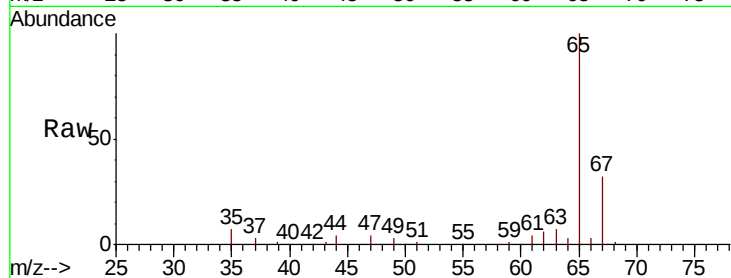
MDL-ME-SOIL-05

Tot Ion: 62 Resp: 4432

Ion Ratio Lower Upper

62 100

64 53.0 23.3 43.3#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

4000

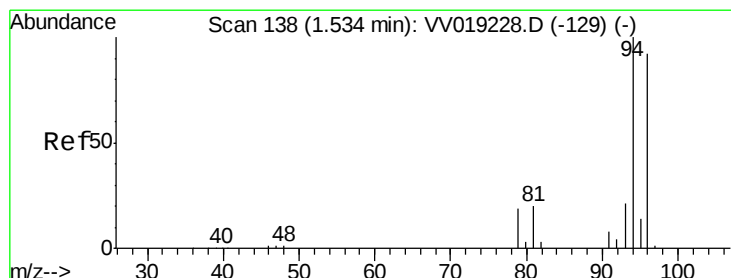
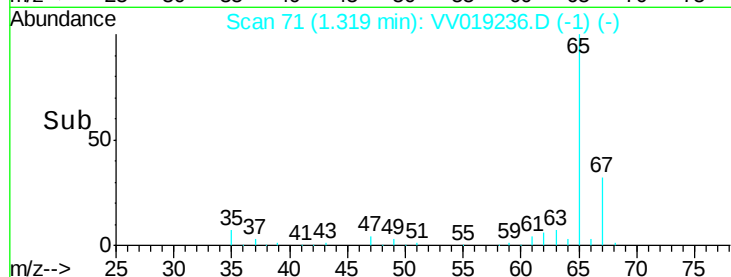
3000

2000

1000

0

Time--> 1.28 1.30 1.32 1.34



#6

Bromomethane

Concen: 2.677 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV019236.D

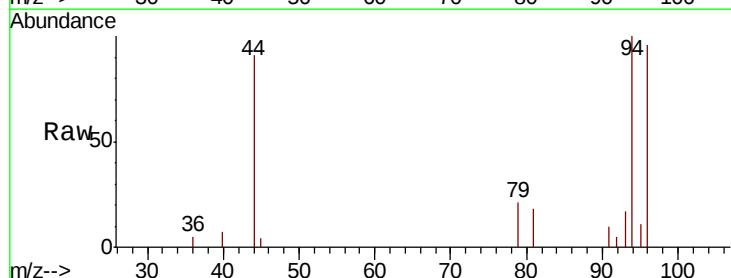
Acq: 03 Nov 2020 15:12

Tgt Ion: 94 Resp: 2911

Ion Ratio Lower Upper

94 100

96 95.6 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

3000

2500

2000

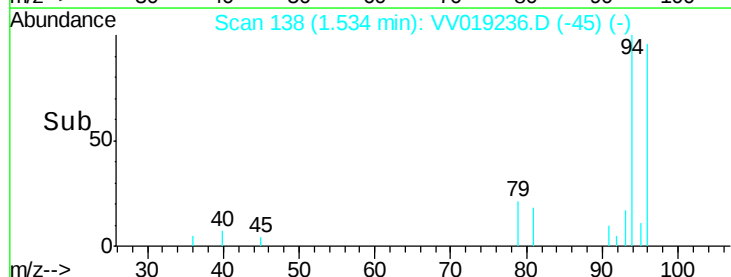
1500

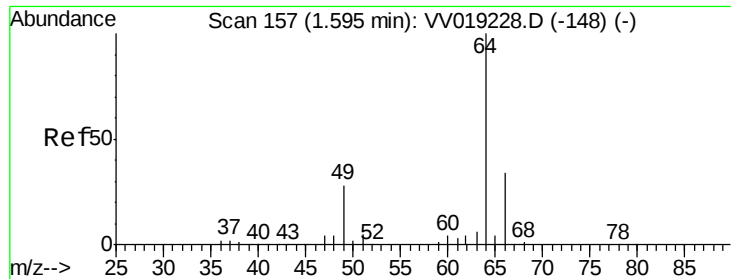
1000

500

0

Time--> 1.50 1.52 1.54 1.56

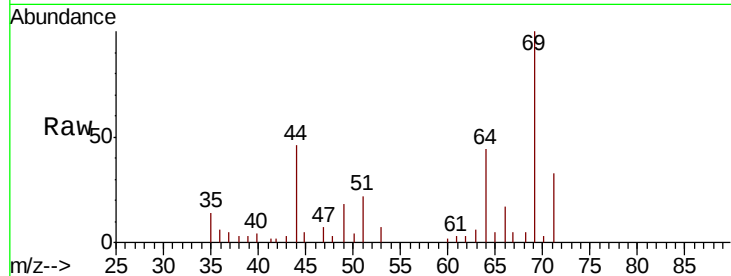




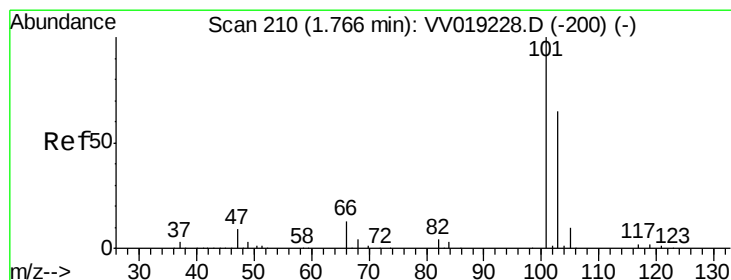
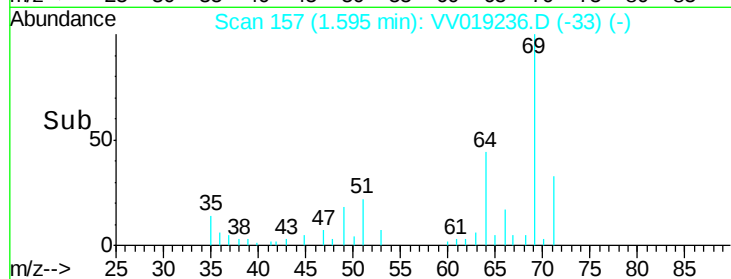
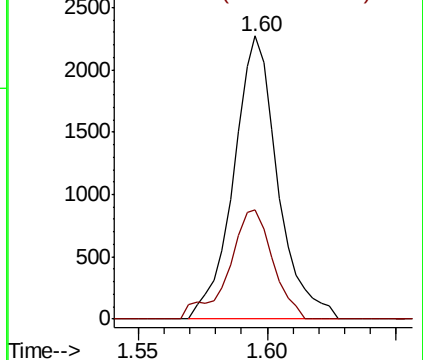
#8
Chloroethane
Concen: 2.556 ug/L
RT: 1.60 min Scan# 157
Delta R.T. 0.00 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

Tot Ion: 64 Resp: 2705
Ion Ratio Lower Upper
64 100
66 38.5 22.5 41.9

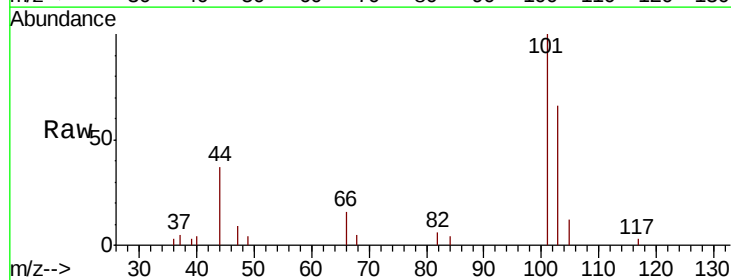


Abundance Ion 64.00 (63.70 to 64.70): VV019228.D (-148) (-)
Ion 66.00 (65.70 to 66.70): VV019228.D (-148) (-)

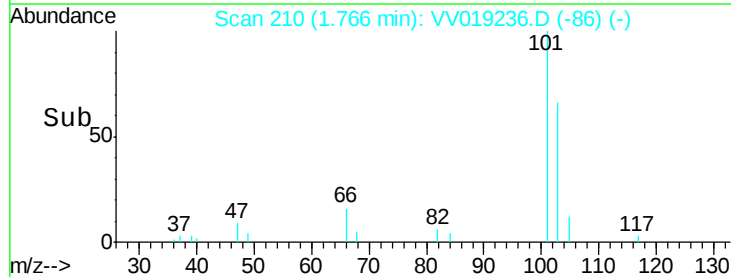
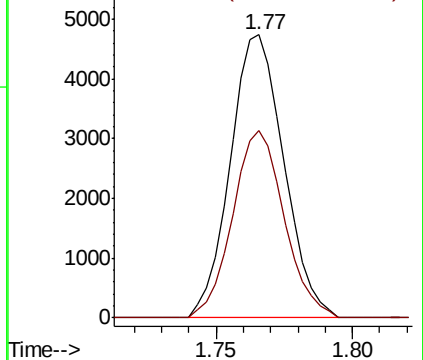


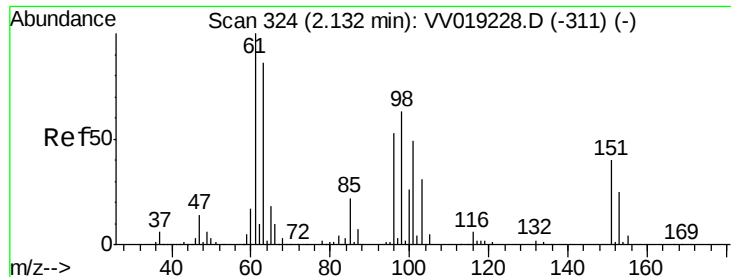
#9
Trichlorofluoromethane
Concen: 2.411 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.00 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion: 101 Resp: 6458
Ion Ratio Lower Upper
101 100
103 63.7 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VV019228.D (-200) (-)
Ion 103.00 (102.70 to 103.70): VV019228.D (-200) (-)





#10

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

Concen: 3.653 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

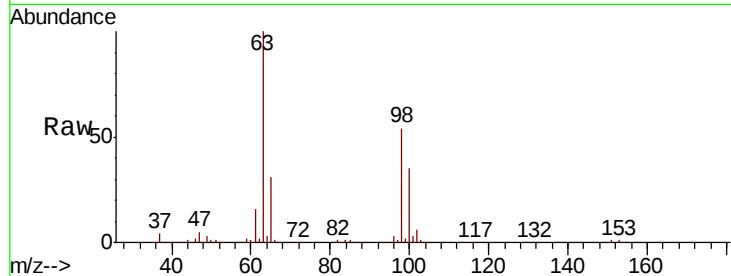
Tot Ion:101 Resp: 4649

Ion Ratio Lower Upper

101 100

85 33.4 35.6 53.4#

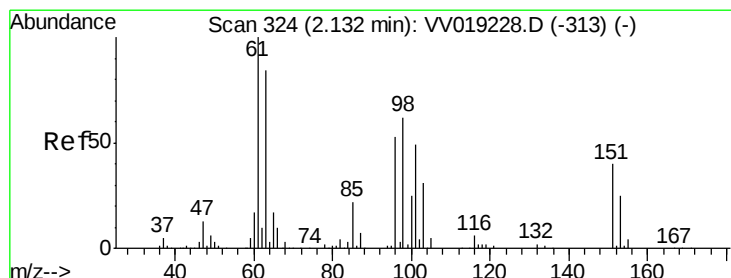
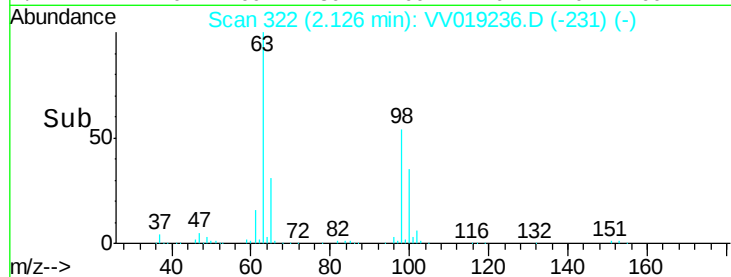
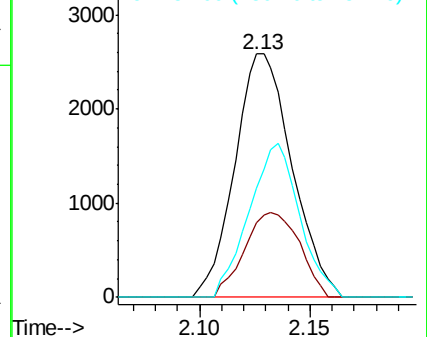
151 55.8 64.1 96.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 3.217 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

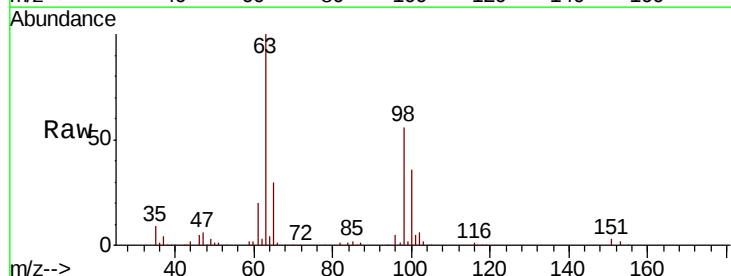
Tgt Ion: 96 Resp: 4231

Ion Ratio Lower Upper

96 100

61 418.3 133.6 248.0#

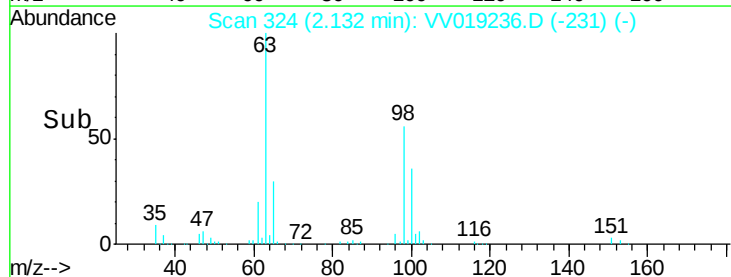
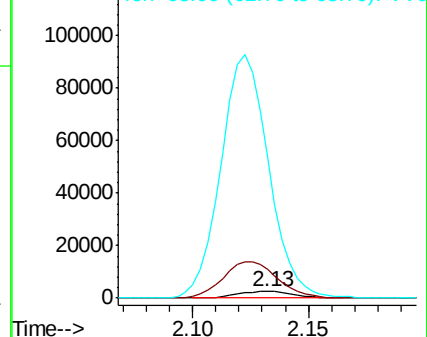
63 2044.5 103.0 191.2#

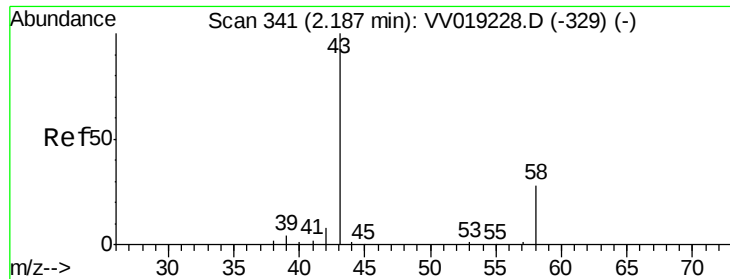


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 5.720 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

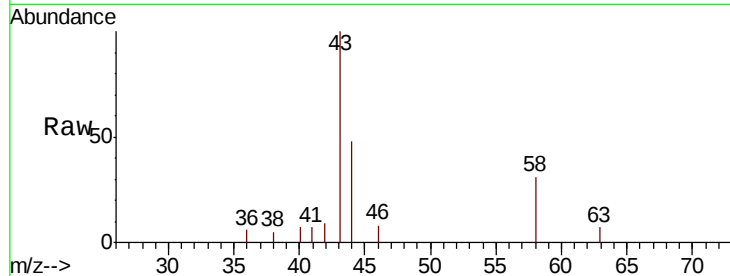
MDL-ME-SOIL-05

Tot Ion: 43 Resp: 4510

Ion Ratio Lower Upper

43 100

58 28.5 0.0 57.8



Abundance Ion 43.00 (42.70 to 43.70): VV019228.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV019228.D (-329) (-)

2.19

2000

1500

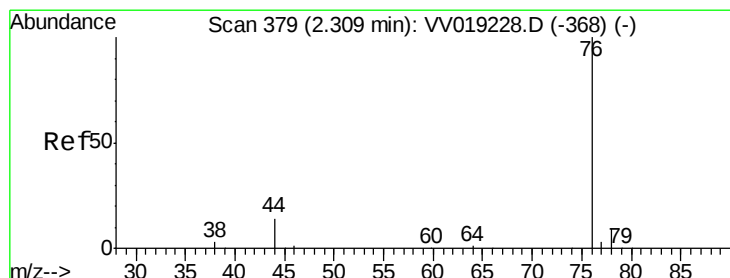
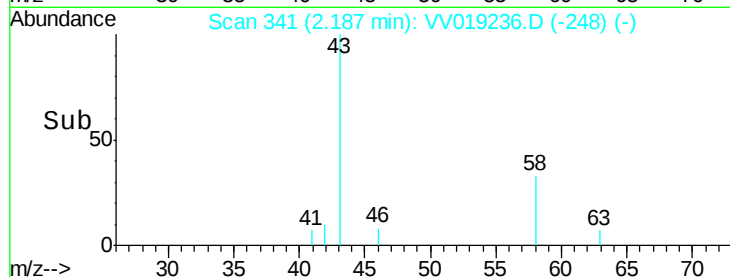
1000

500

0

Time-->

2.10 2.15 2.20 2.25



#14

Carbon disulfide

Concen: 2.483 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019236.D

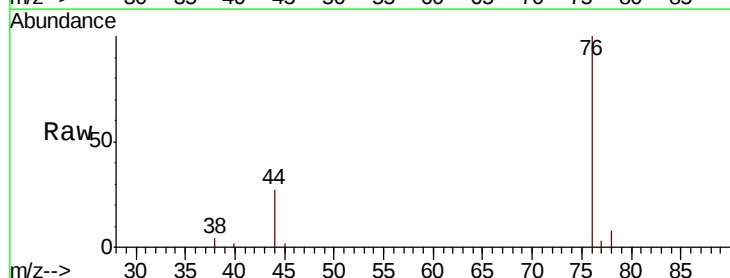
Acq: 03 Nov 2020 15:12

Tgt Ion: 76 Resp: 9378

Ion Ratio Lower Upper

76 100

78 8.4 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019228.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV019228.D (-368) (-)

2.31

6000

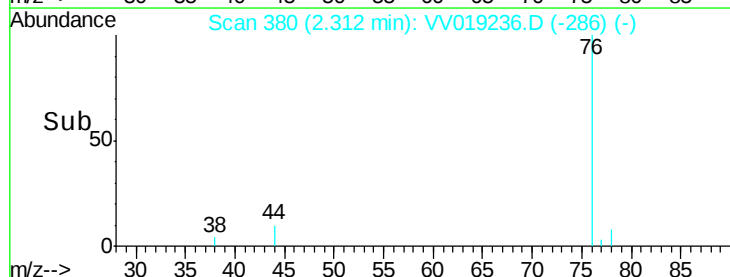
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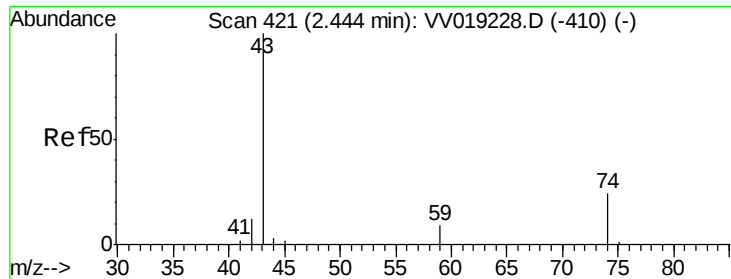
2000

0

Time-->

2.25 2.30 2.35

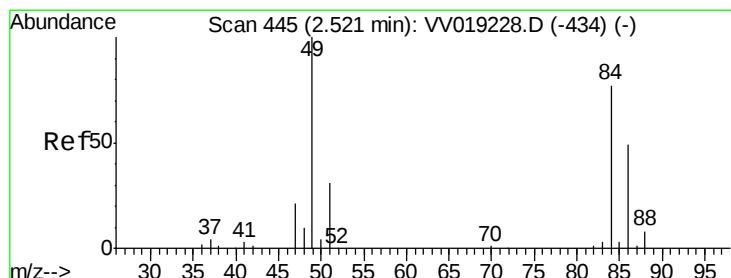
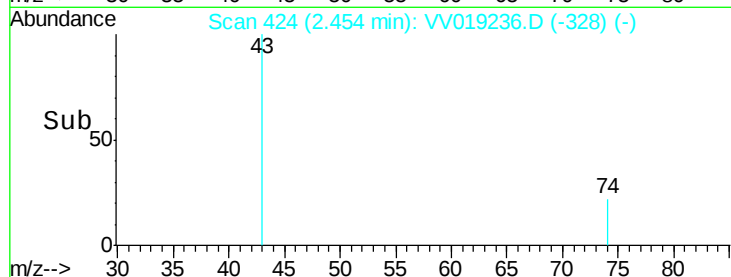
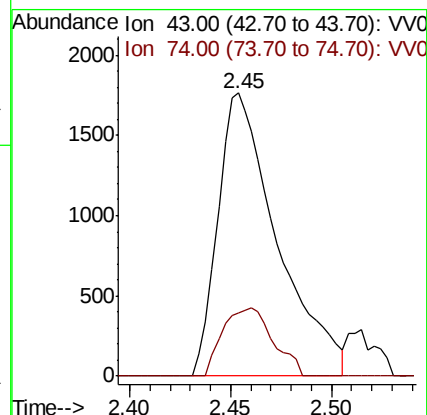
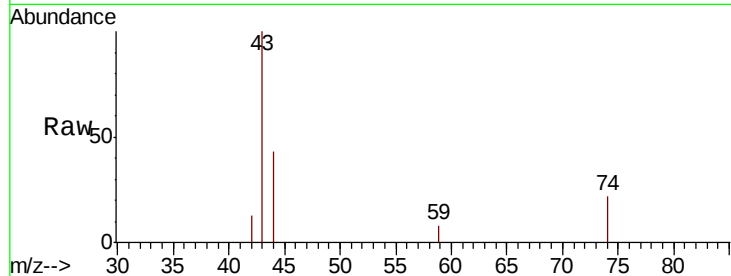




#15
Methyl Acetate
Concen: 2.355 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

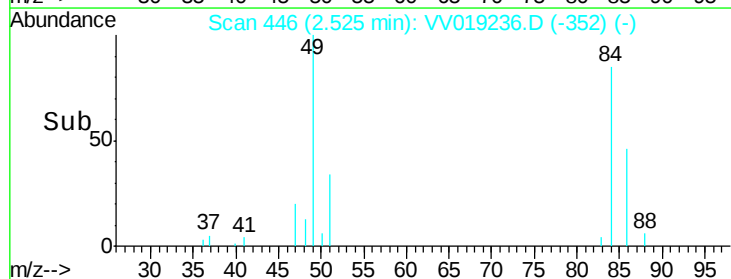
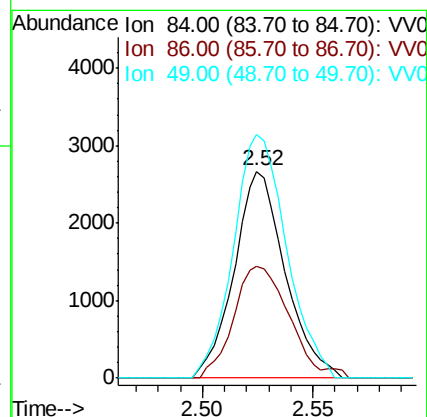
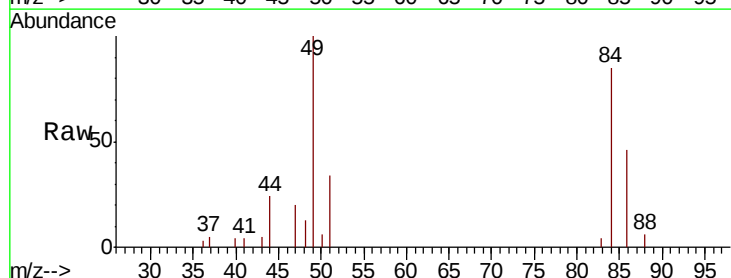
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

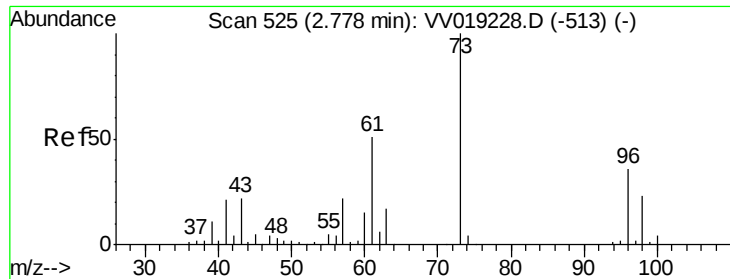
Tot Ion: 43 Resp: 3598
Ion Ratio Lower Upper
43 100
74 20.5 18.8 28.2



#16
Methylene chloride
Concen: 2.742 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion: 84 Resp: 4287
Ion Ratio Lower Upper
84 100
86 54.2 45.6 84.8
49 117.9 89.3 165.9





#17

trans-1,2-Dichloroethene

Concen: 2.421 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

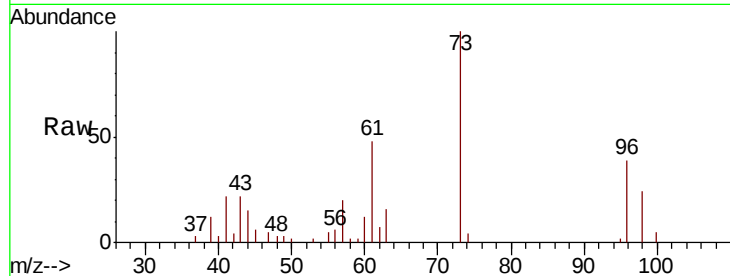
Tot Ion: 96 Resp: 3455

Ion Ratio Lower Upper

96 100

61 123.8 100.7 187.1

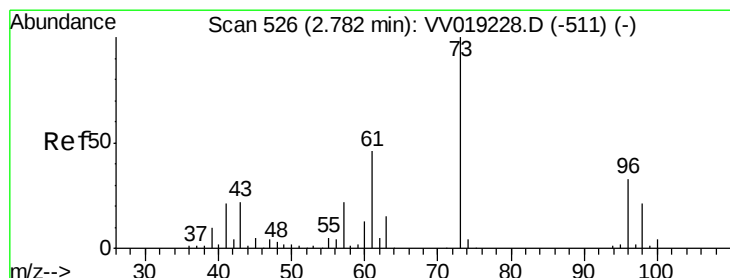
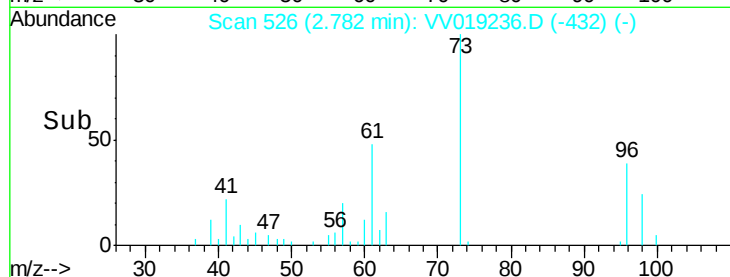
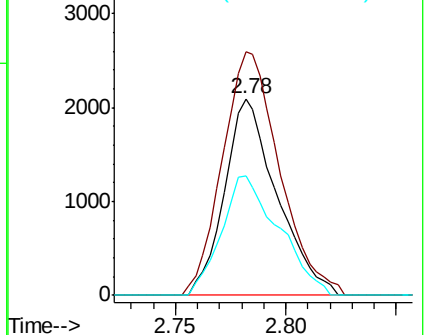
98 61.0 42.9 79.7



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 2.230 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

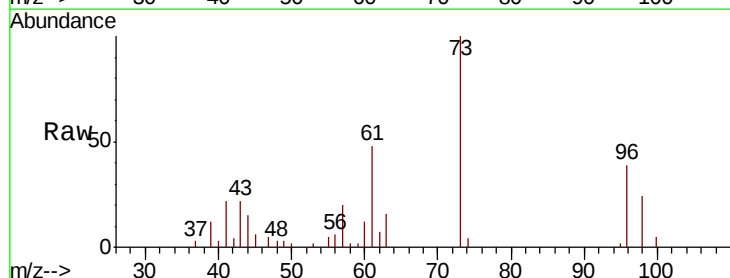
Tgt Ion: 73 Resp: 11183

Ion Ratio Lower Upper

73 100

43 22.9 17.9 26.9

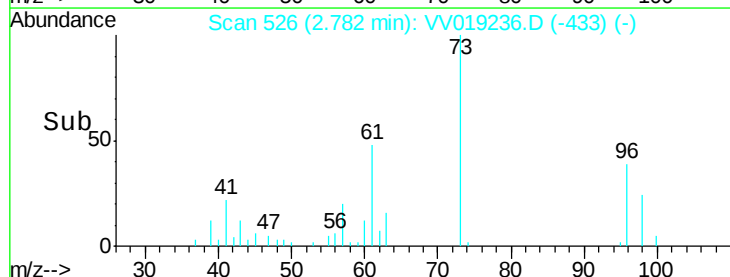
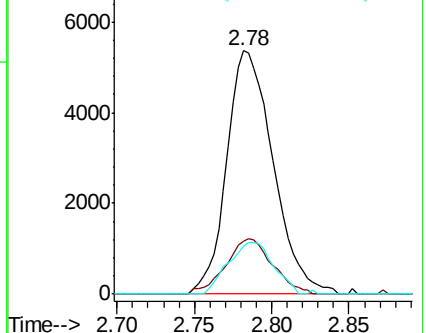
57 20.8 17.1 25.7

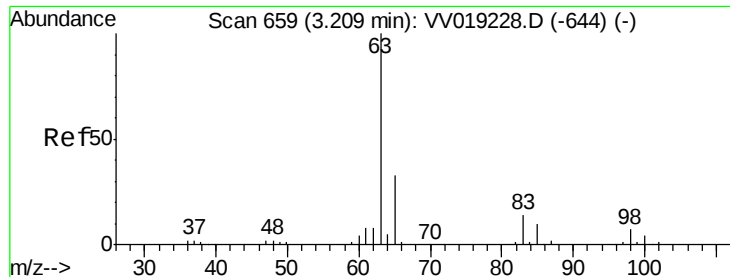


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 2.359 ug/L

RT: 3.22 min Scan# 661

Delta R.T. 0.01 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

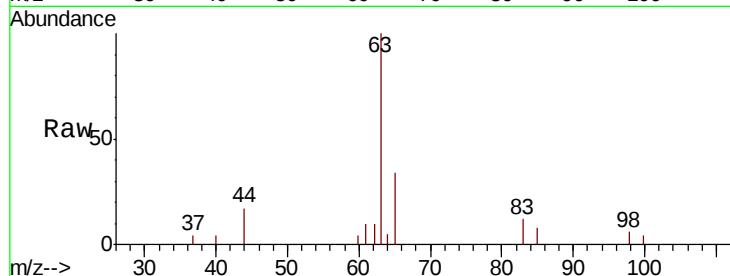
Tot Ion: 63 Resp: 6594

Ion Ratio Lower Upper

63 100

65 34.0 21.8 40.6

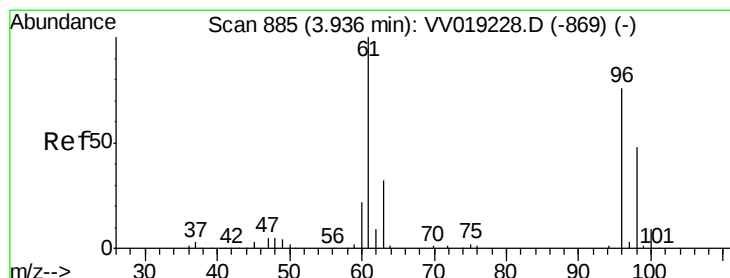
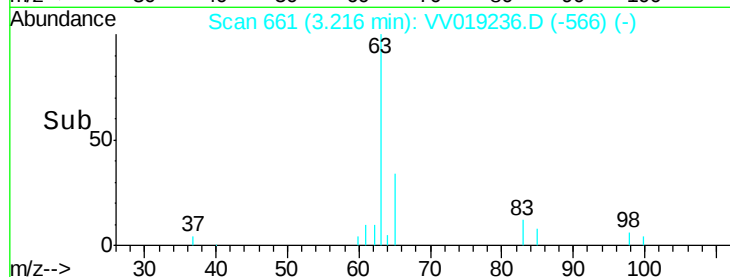
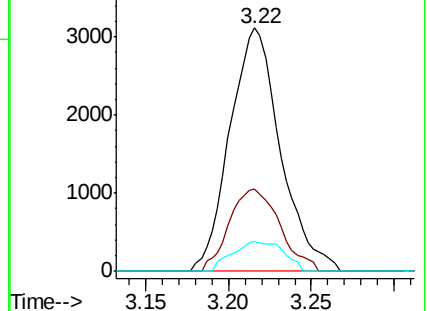
83 12.5 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 2.406 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

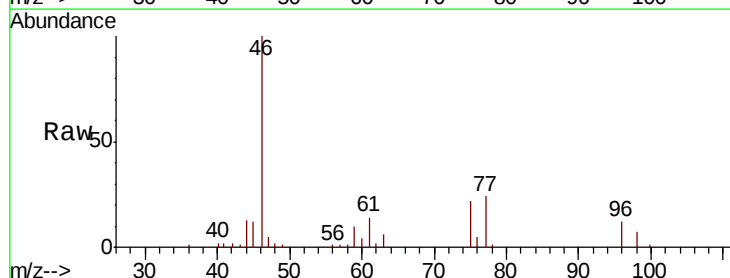
Tgt Ion: 96 Resp: 3794

Ion Ratio Lower Upper

96 100

61 115.0 95.6 177.6

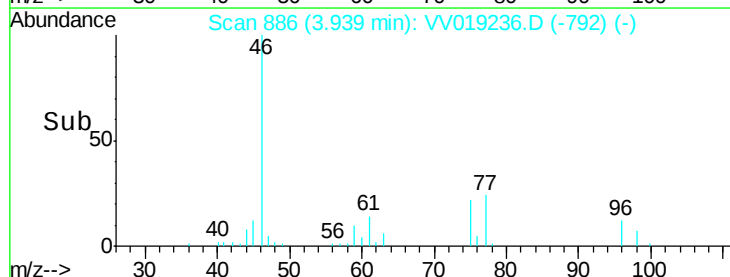
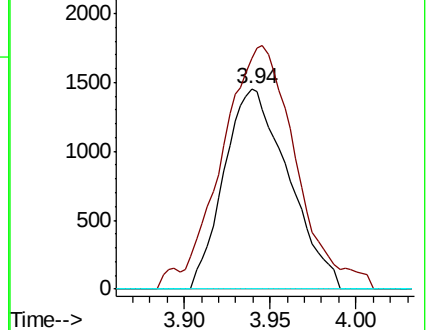
68 0.0 0.0 0.0

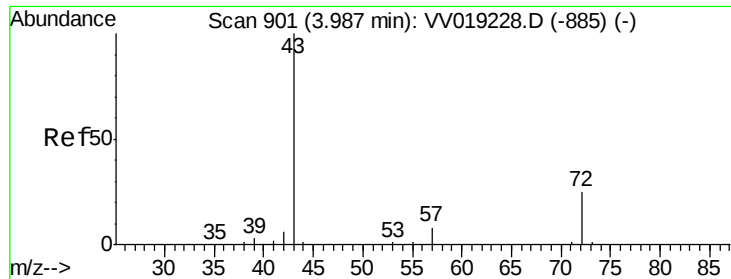


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0

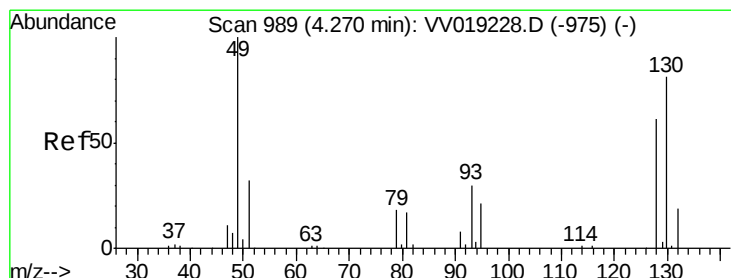
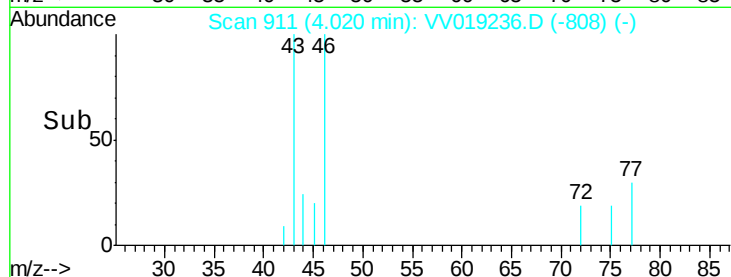
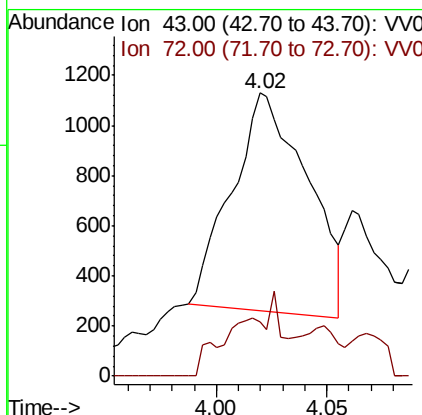
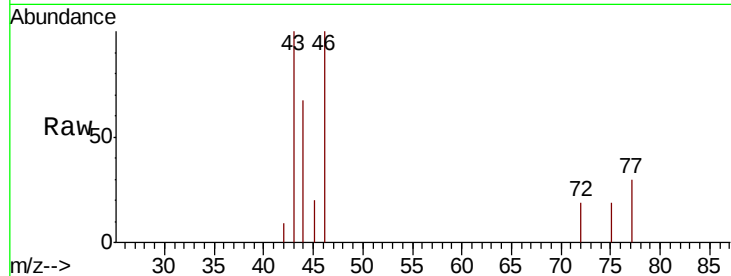




#22
2-Butanone
Concen: 2.075 ug/L
RT: 4.02 min Scan# 911
Delta R.T. 0.03 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

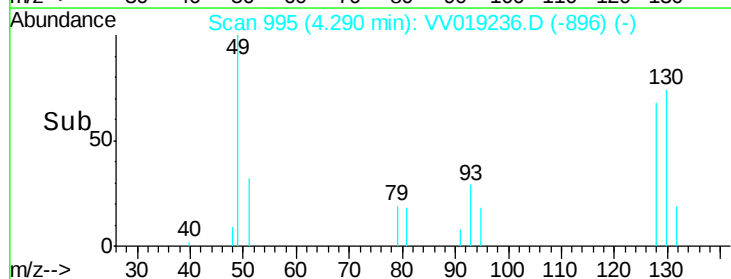
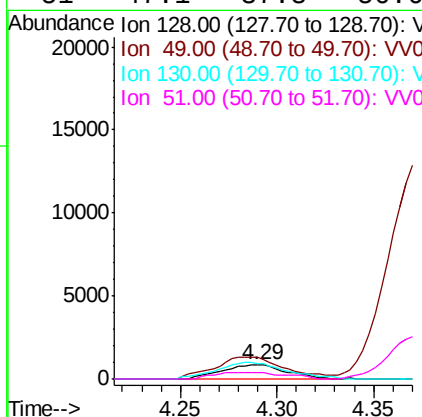
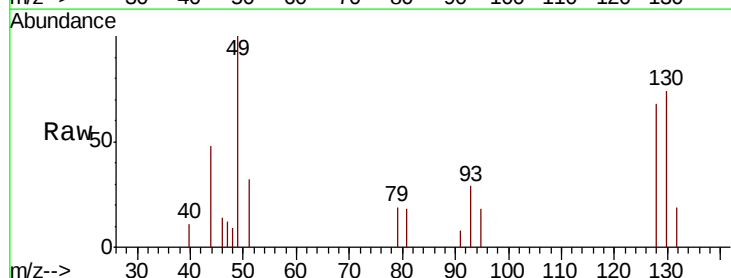
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

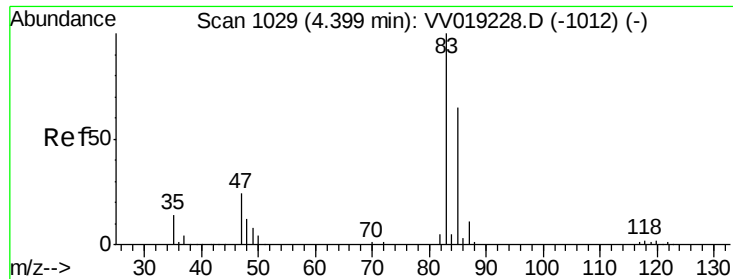
Tot Ion: 43 Resp: 2077
Ion Ratio Lower Upper
43 100
72 12.8 12.7 38.0



#23
Bromochloromethane
Concen: 2.299 ug/L
RT: 4.29 min Scan# 995
Delta R.T. 0.02 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion: 128 Resp: 1996
Ion Ratio Lower Upper
128 100
49 146.8 108.8 202.2
130 108.1 88.5 164.3
51 47.1 37.8 56.6

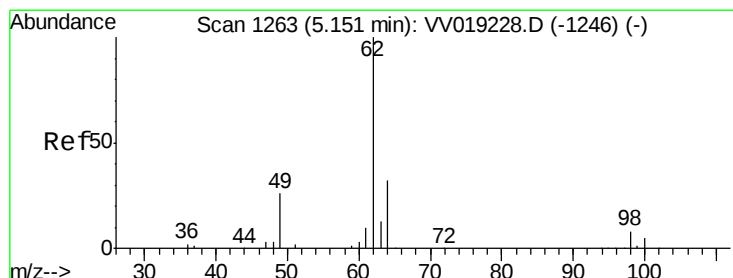
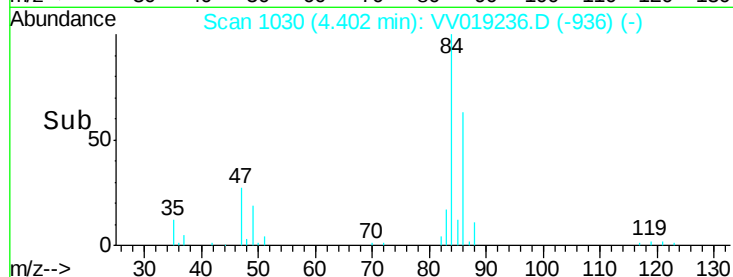
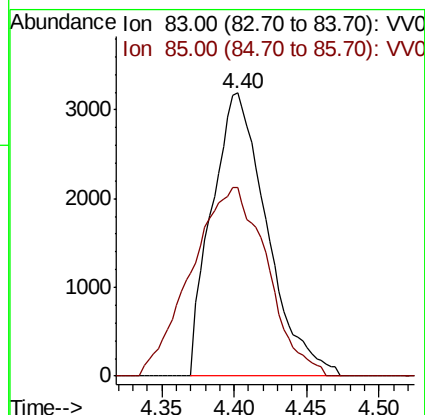
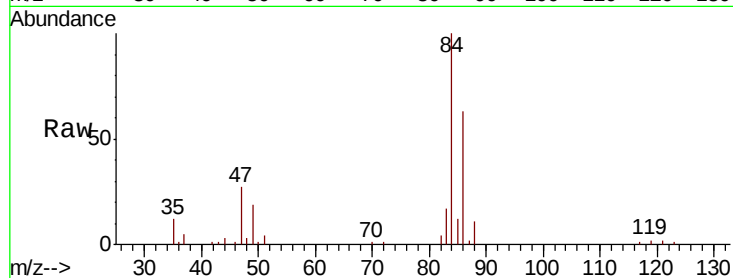




#25
Chloroform
Concen: 2.821 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

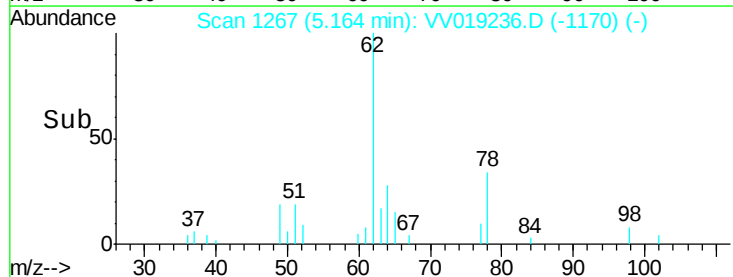
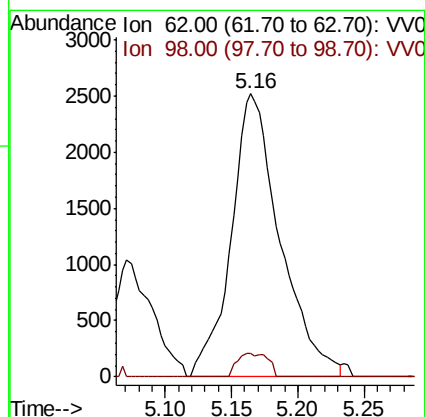
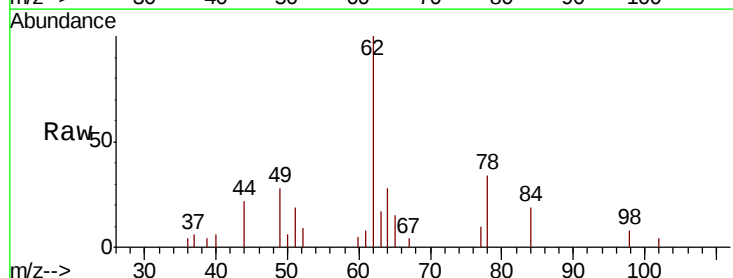
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

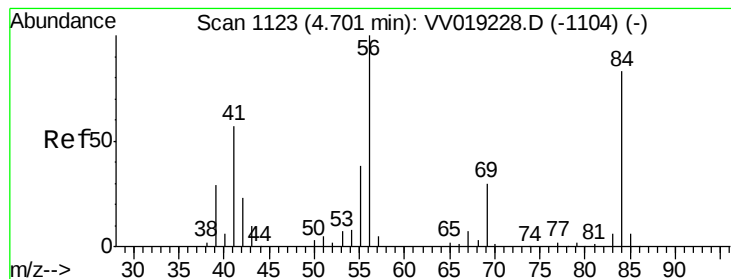
Tot Ion: 83 Resp: 8455
Ion Ratio Lower Upper
83 100
85 66.8 45.4 84.4



#27
1,2-Dichloroethane
Concen: 2.534 ug/L
RT: 5.16 min Scan# 1267
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion: 62 Resp: 6457
Ion Ratio Lower Upper
62 100
98 8.3 6.8 10.2





#29

Cyclohexane

Concen: 2.177 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

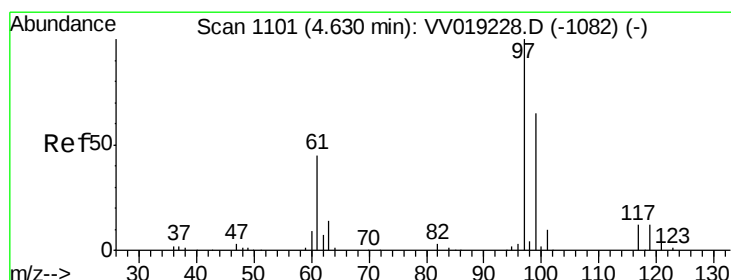
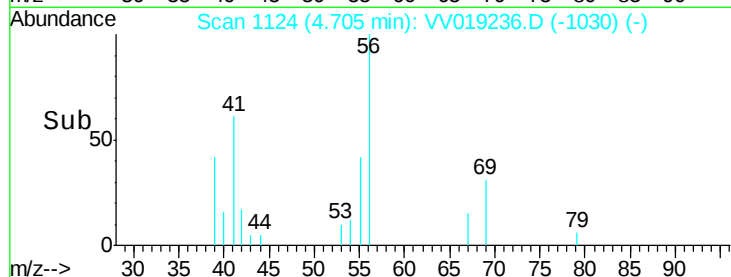
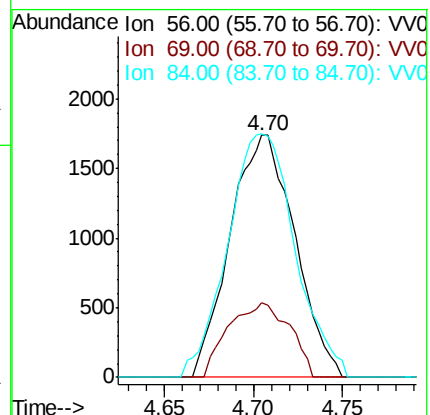
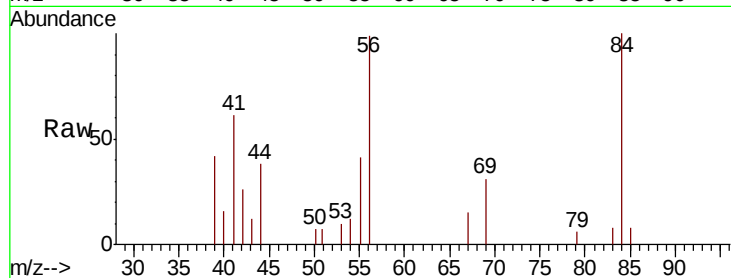
Tot Ion: 56 Resp: 4401

Ion Ratio Lower Upper

56 100

69 29.1 24.6 36.8

84 104.7 70.5 105.7



#30

1,1,1-Trichloroethane

Concen: 2.264 ug/L

RT: 4.63 min Scan# 1101

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

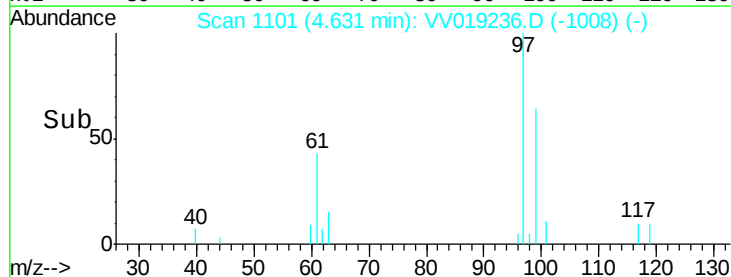
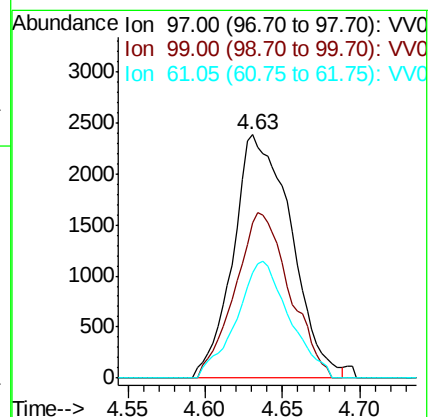
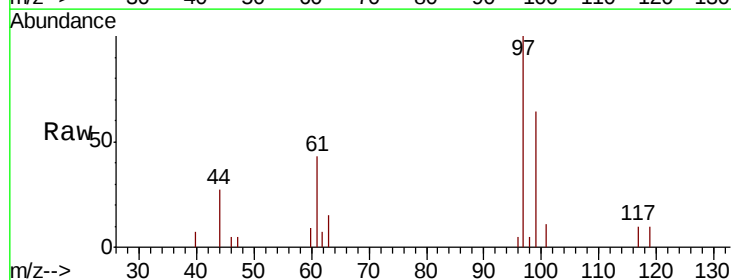
Tgt Ion: 97 Resp: 6203

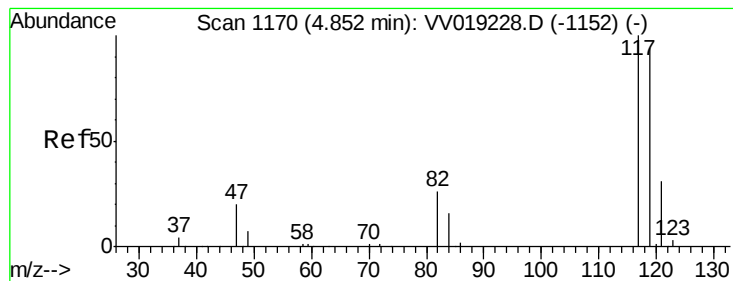
Ion Ratio Lower Upper

97 100

99 64.0 52.0 78.0

61 43.7 35.3 52.9





#31

Carbon tetrachloride

Concen: 2.350 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

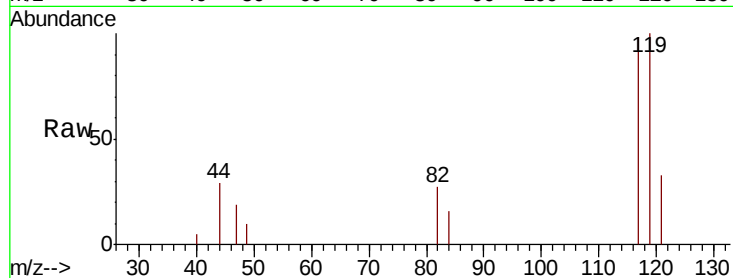
MDL-ME-SOIL-05

Tot Ion:117 Resp: 5560

Ion Ratio Lower Upper

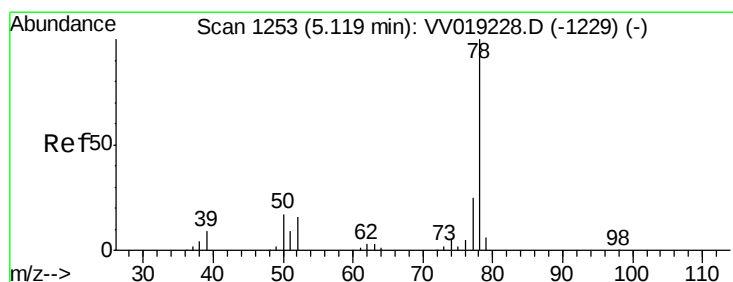
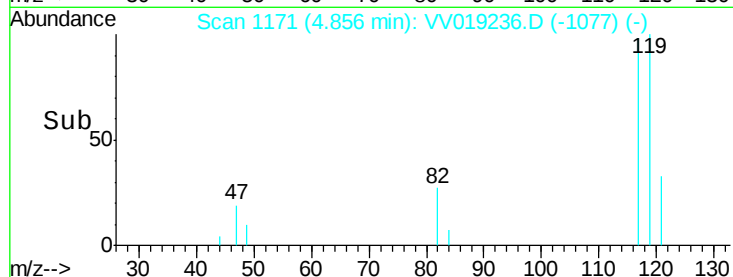
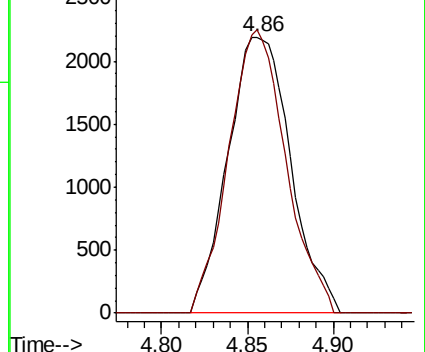
117 100

119 94.0 77.8 116.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.124 ug/L

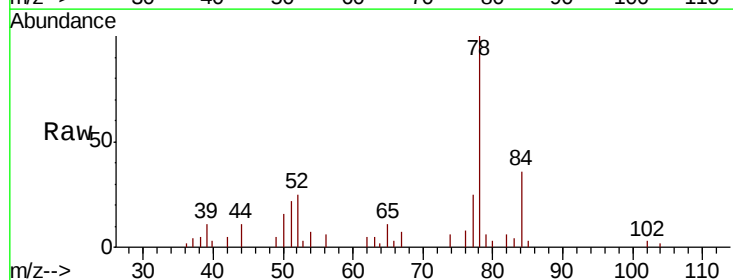
RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

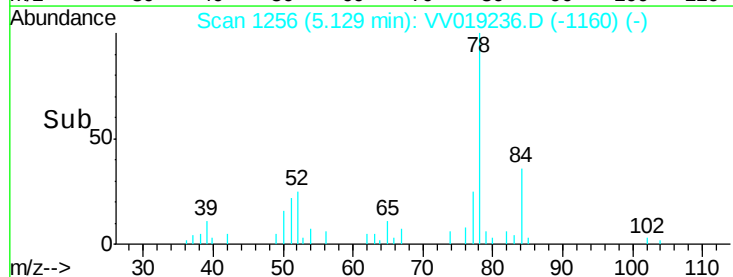
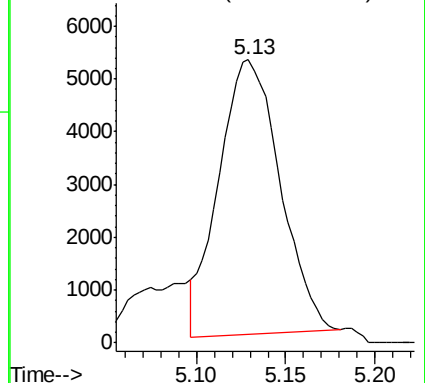
Lab File: VV019236.D

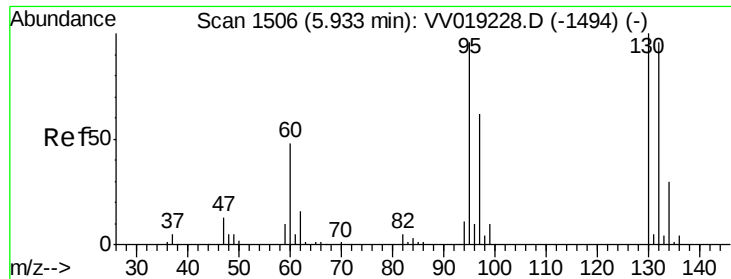
Acq: 03 Nov 2020 15:12

Tgt Ion: 78 Resp: 12468



Abundance Ion 78.00 (77.70 to 78.70): VV0

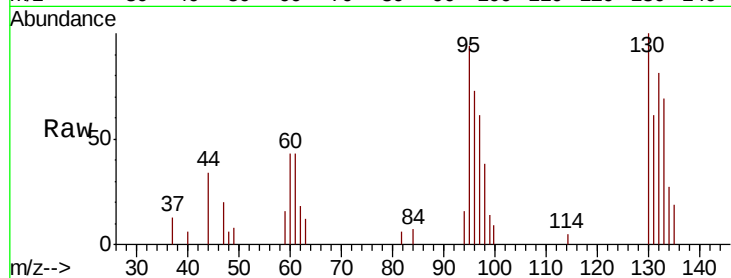




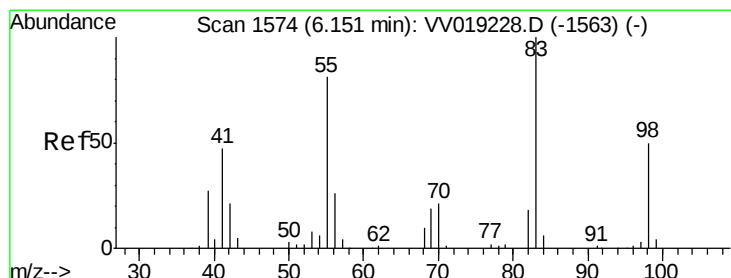
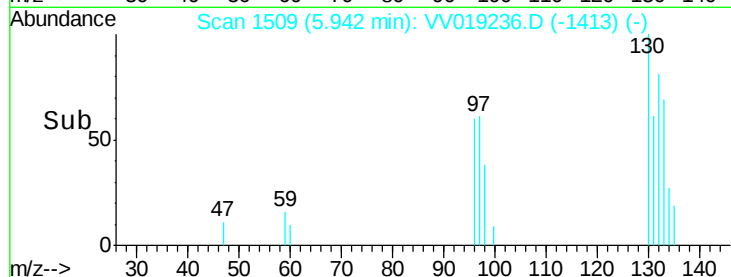
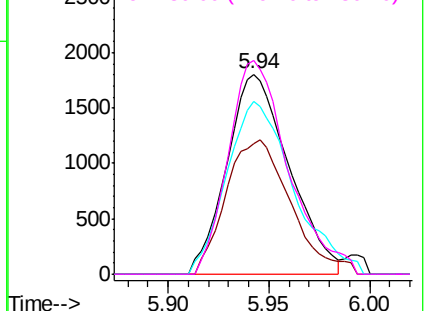
#34
 Trichloroethene
 Concen: 2.443 ug/L
 RT: 5.94 min Scan# 1509
 Delta R.T. 0.01 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

Tot Ion: 95 Resp: 3897
 Ion Ratio Lower Upper
 95 100
 97 65.3 45.4 84.4
 132 86.5 68.5 127.3
 130 106.6 72.0 133.6

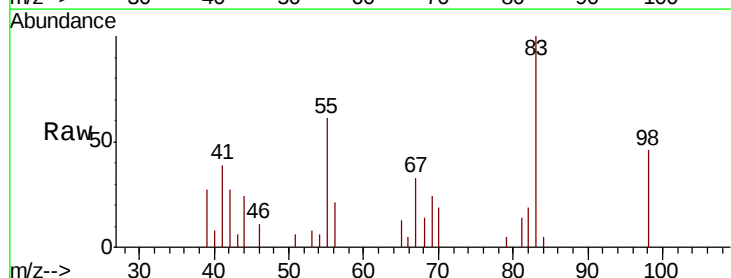


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

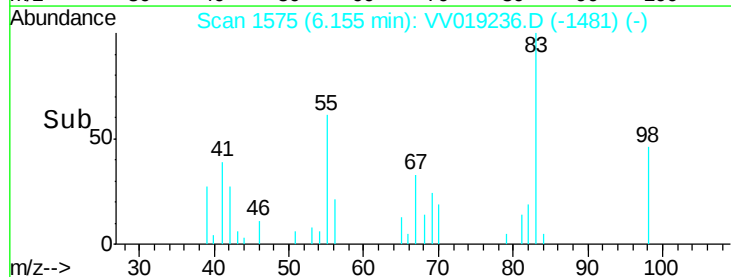
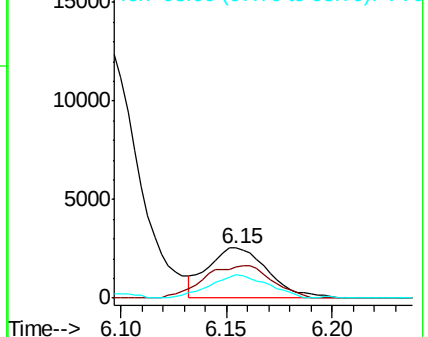


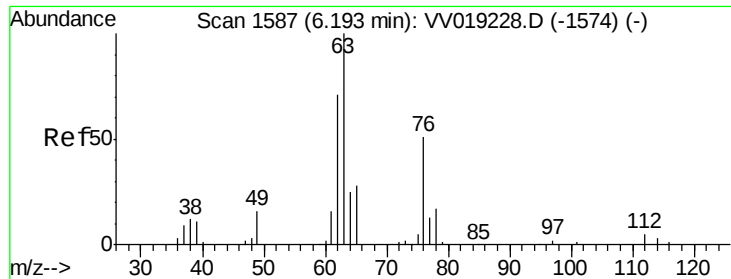
#35
 Methylcyclohexane
 Concen: 2.618 ug/L
 RT: 6.15 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion: 83 Resp: 5055
 Ion Ratio Lower Upper
 83 100
 55 72.5 62.8 94.2
 98 45.3 38.6 58.0



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 2.486 ug/L

RT: 6.20 min Scan# 1590

Delta R.T. 0.01 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

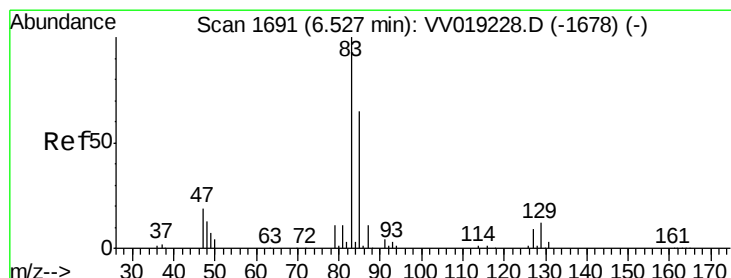
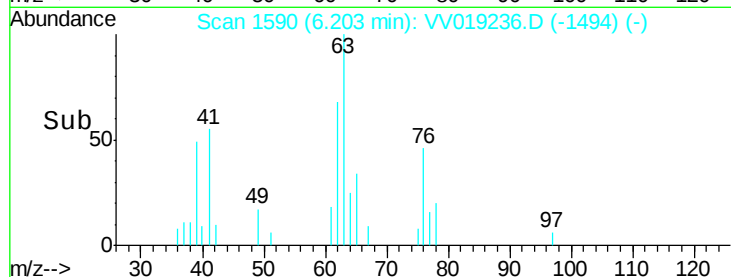
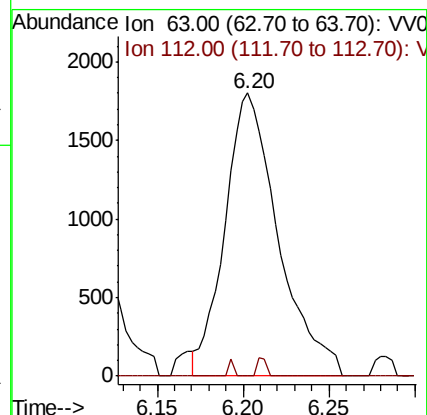
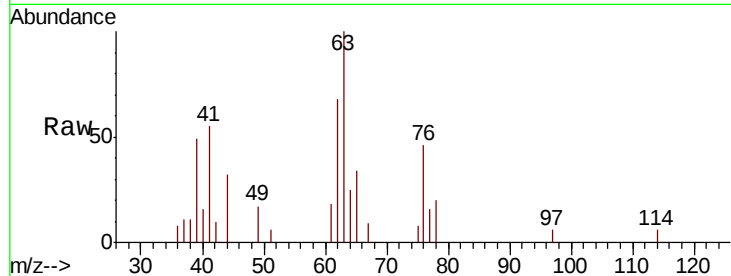
MDL-ME-SOIL-05

Tot Ion: 63 Resp: 3895

Ion Ratio Lower Upper

63 100

112 1.1 4.2 6.2#



#38

Bromodichloromethane

Concen: 2.255 ug/L

RT: 6.53 min Scan# 1693

Delta R.T. 0.01 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

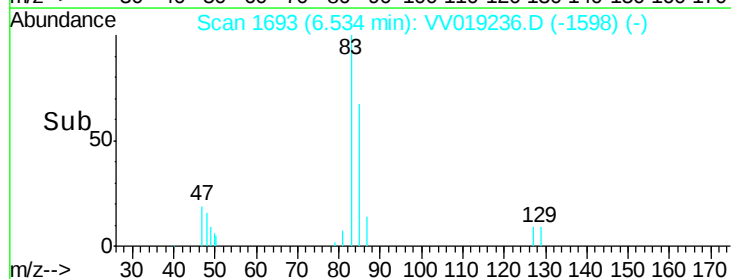
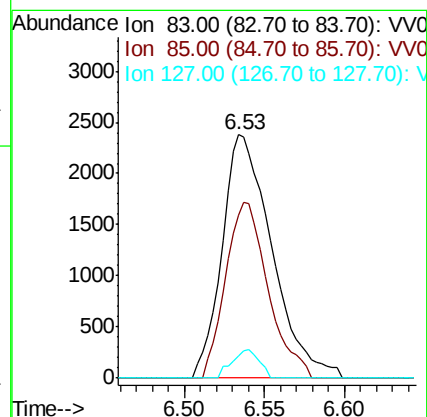
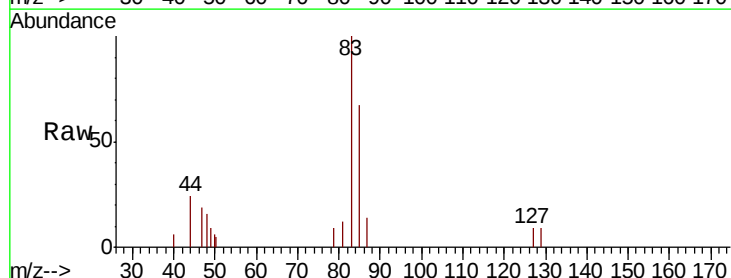
Tgt Ion: 83 Resp: 5085

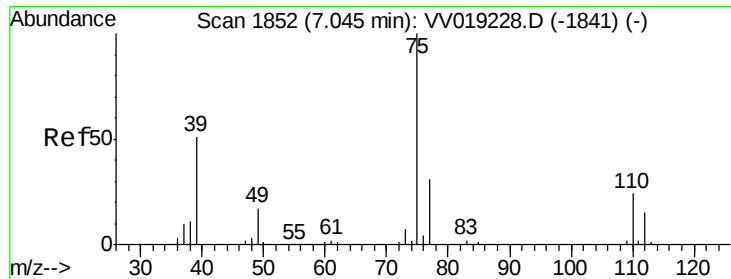
Ion Ratio Lower Upper

83 100

85 67.0 44.0 81.8

127 9.4 7.3 10.9

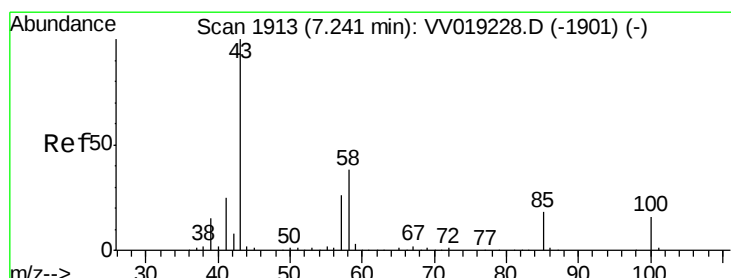
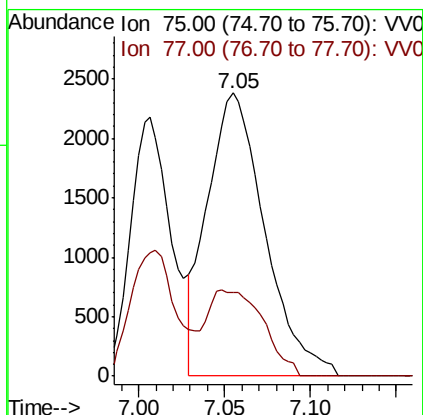
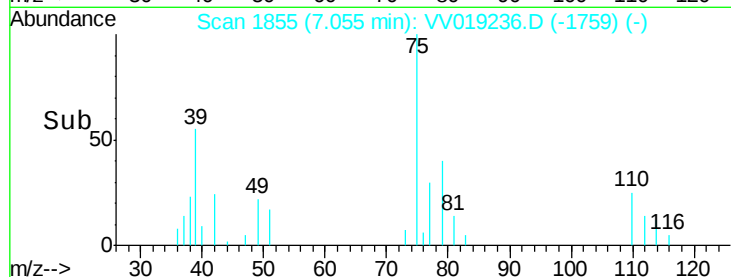
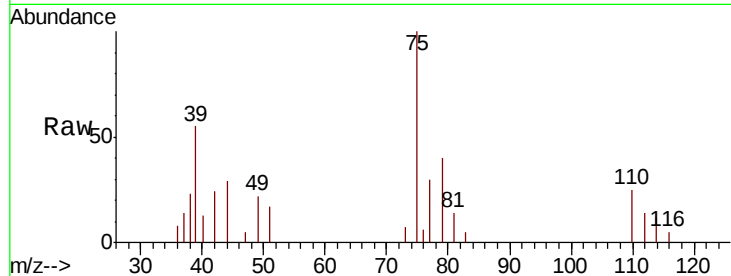




#39
 cis-1,3-Dichloropropene
 Concen: 2.212 ug/L
 RT: 7.05 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

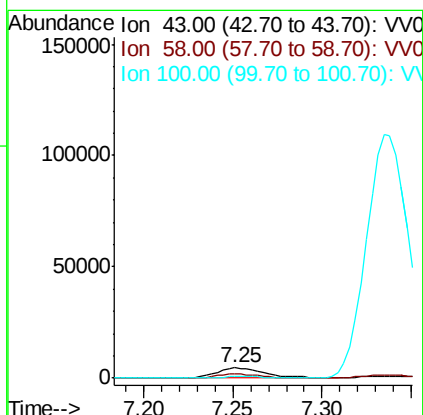
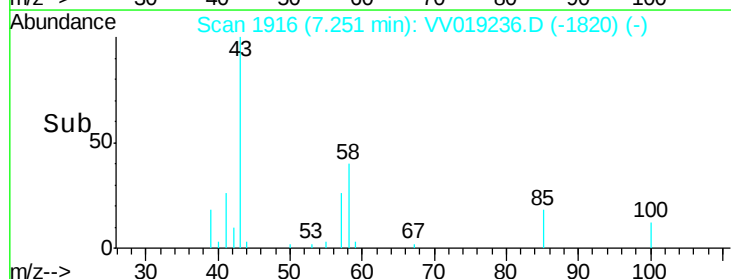
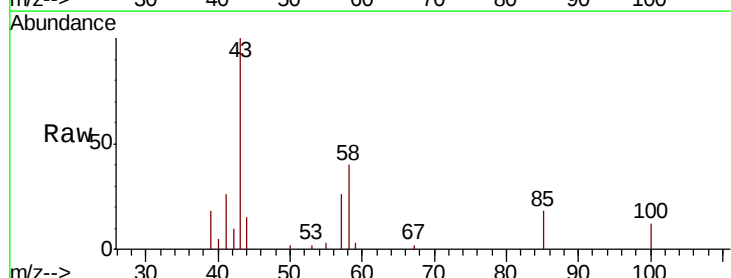
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

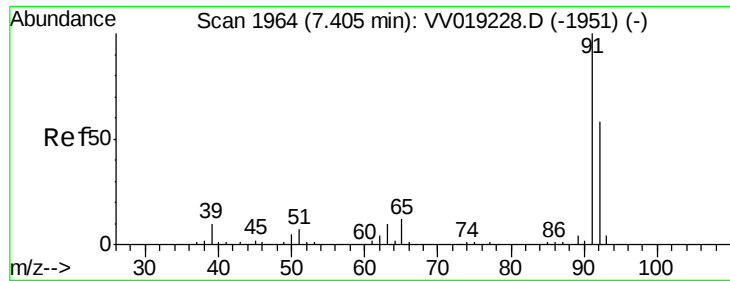
Tot Ion: 75 Resp: 5546
 Ion Ratio Lower Upper
 75 100
 77 29.8 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 4.112 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.01 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion: 43 Resp: 8655
 Ion Ratio Lower Upper
 43 100
 58 37.1 30.5 45.7
 100 13.7 12.7 19.1





#42

Toluene

Concen: 2.659 ug/L

RT: 7.42 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

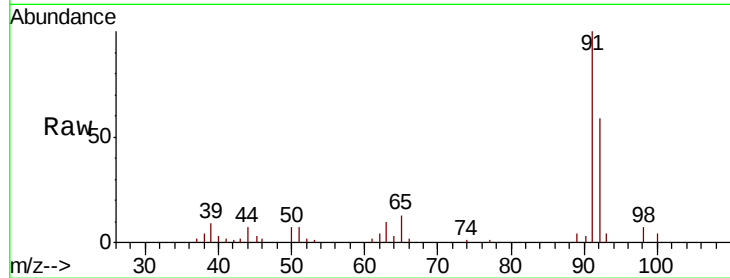
MDL-ME-SOIL-05

Tot Ion: 91 Resp: 16873

Ion Ratio Lower Upper

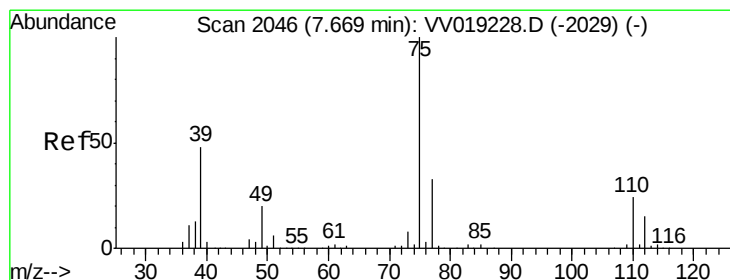
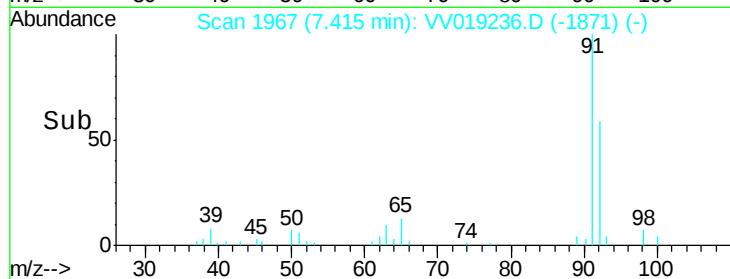
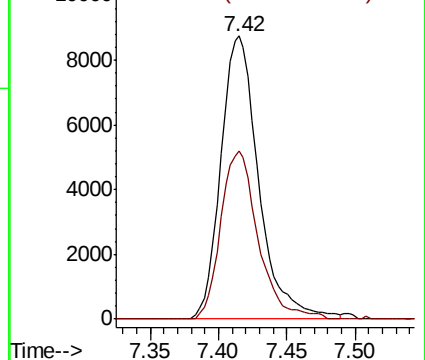
91 100

92 59.5 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 2.216 ug/L

RT: 7.68 min Scan# 2048

Delta R.T. 0.01 min

Lab File: VV019236.D

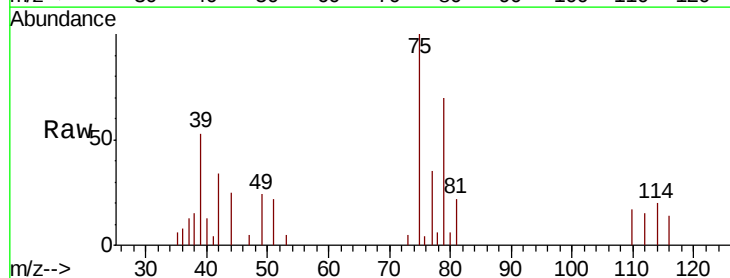
Acq: 03 Nov 2020 15:12

Tgt Ion: 75 Resp: 5692

Ion Ratio Lower Upper

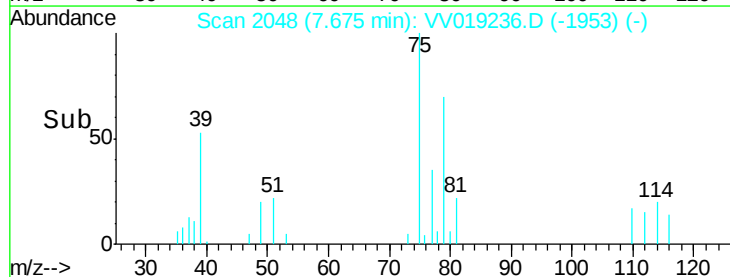
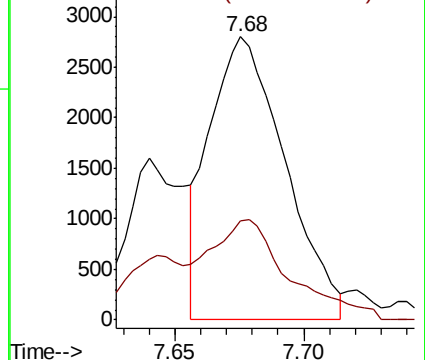
75 100

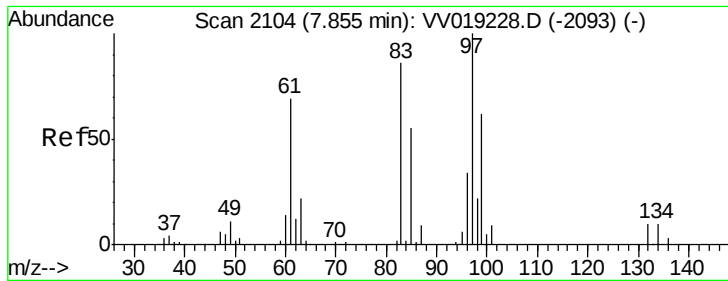
77 34.9 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

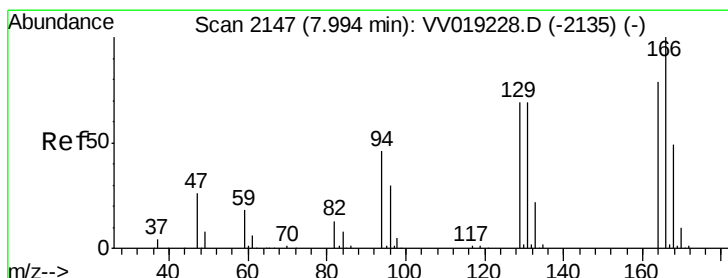
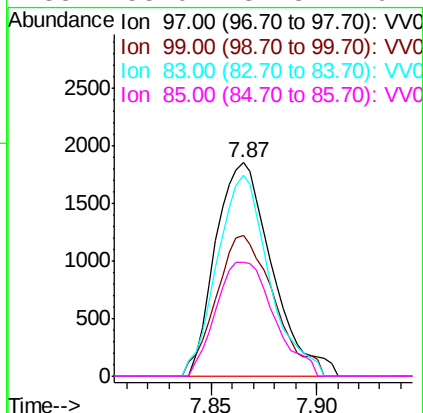
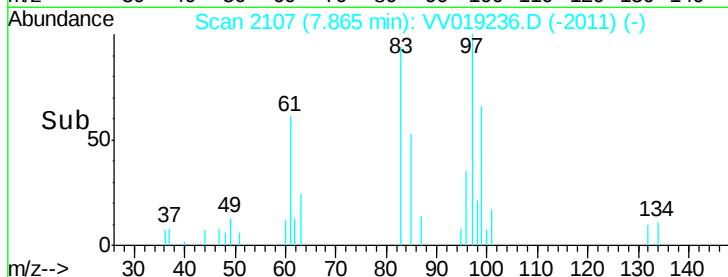
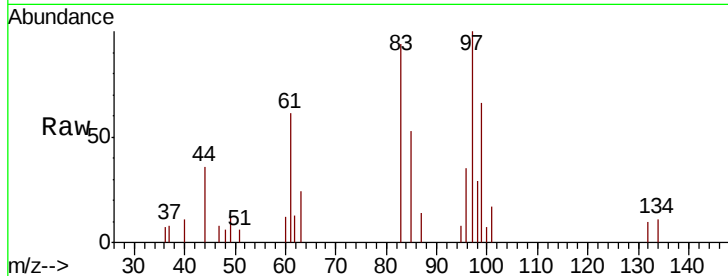




#45
1,1,2-Trichloroethane
Concen: 2.215 ug/L
RT: 7.87 min Scan# 2107
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

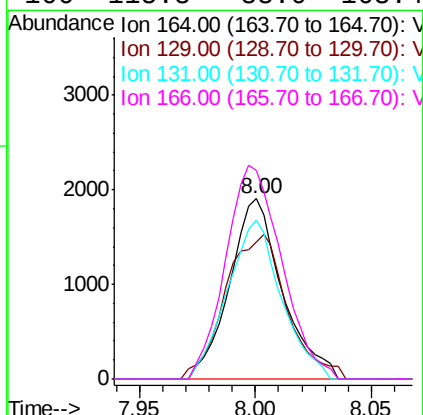
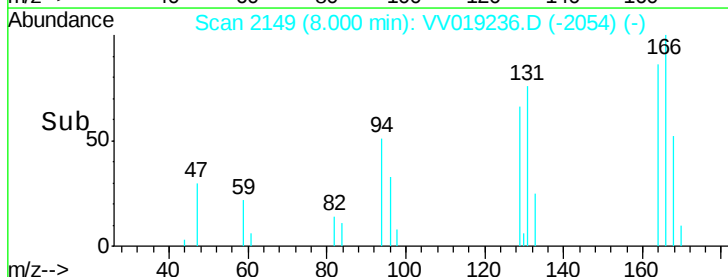
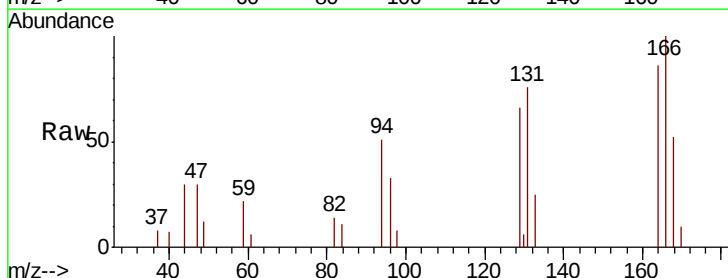
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

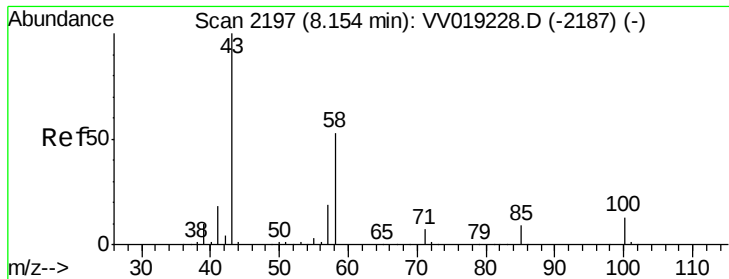
Tot Ion:	97	Resp:	3430
Ion	Ratio	Lower	Upper
97	100		
99	65.9	45.1	83.9
83	94.4	57.6	107.0
85	53.0	37.8	70.2



#46
Tetrachloroethene
Concen: 2.311 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion:	164	Resp:	3008
Ion	Ratio	Lower	Upper
164	100		
129	76.1	62.6	116.3
131	88.2	59.0	109.6
166	115.8	88.0	163.4

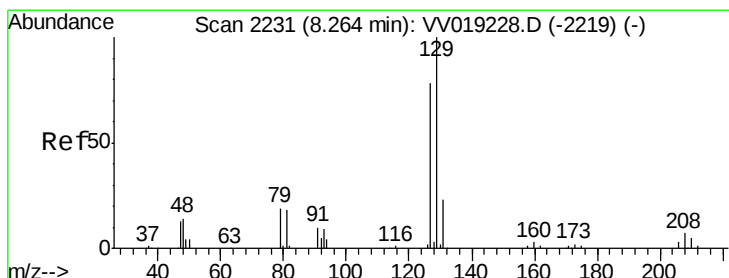
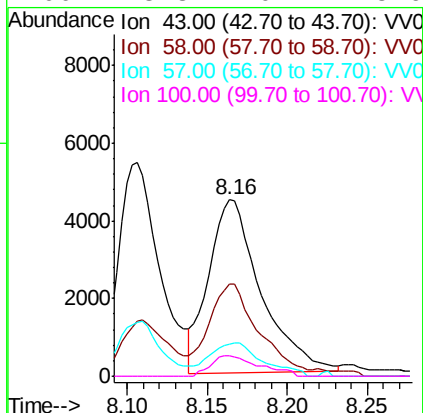
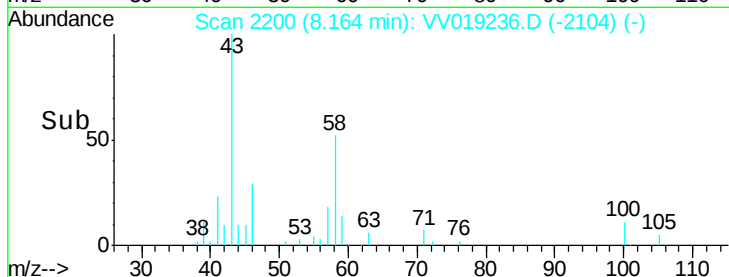
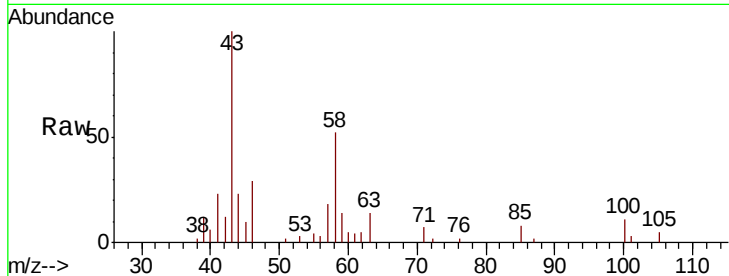




#48
2-Hexanone
Concen: 6.313 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

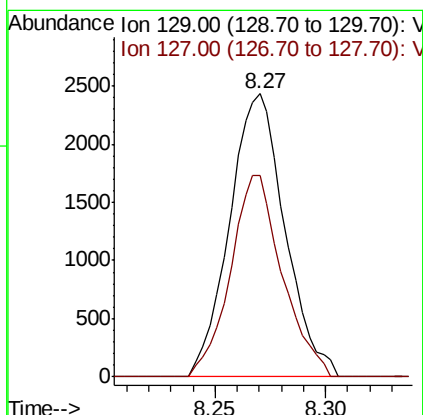
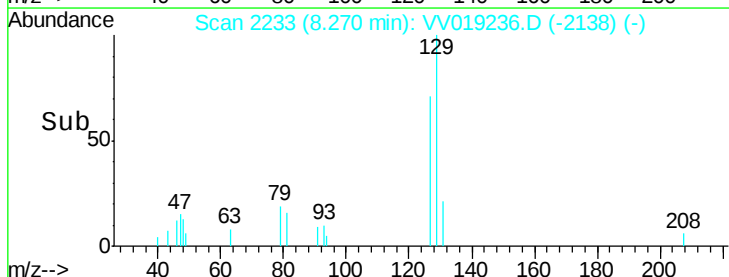
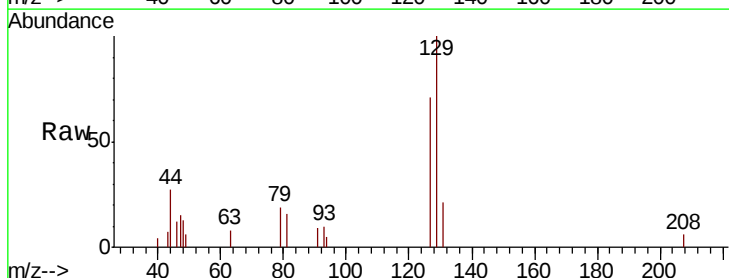
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

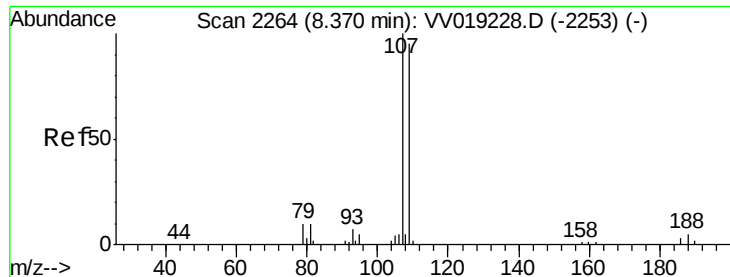
Tot Ion: 43 Resp: 10045
Ion Ratio Lower Upper
43 100
58 45.7 42.6 63.8
57 19.3 15.8 23.8
100 8.3 10.4 15.6#



#49
Dibromochloromethane
Concen: 2.294 ug/L
RT: 8.27 min Scan# 2233
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion: 129 Resp: 4237
Ion Ratio Lower Upper
129 100
127 71.1 54.4 101.0

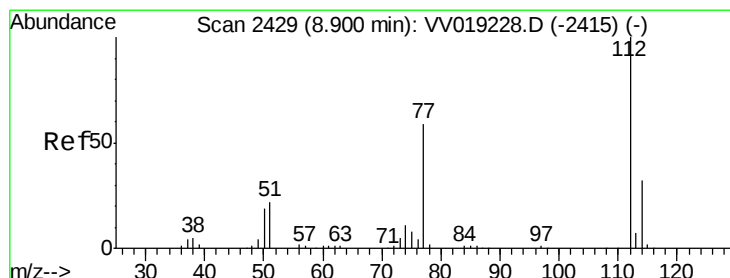
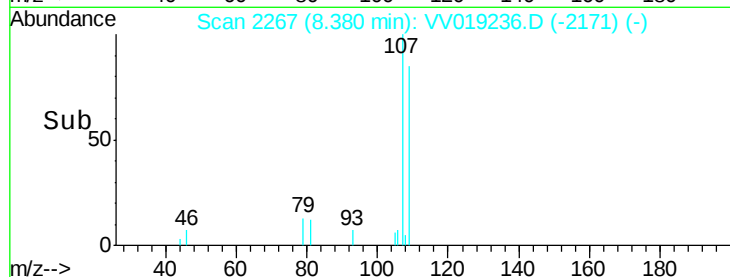
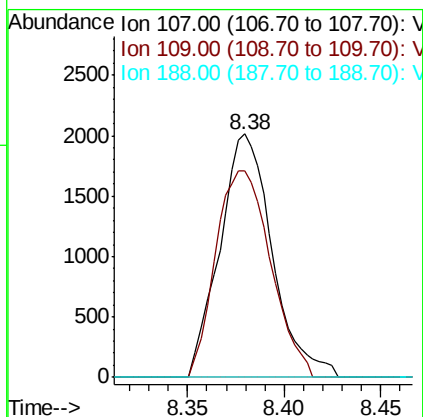
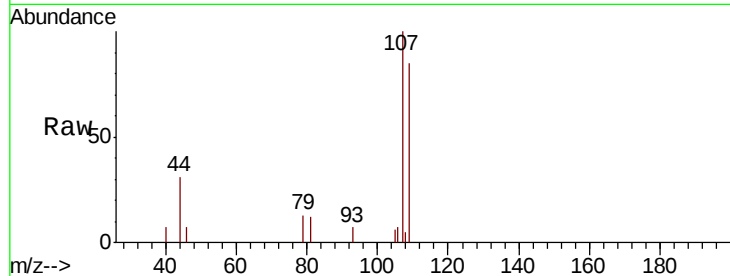




#50
1,2-Dibromoethane
Concen: 2.369 ug/L
RT: 8.38 min Scan# 2267
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

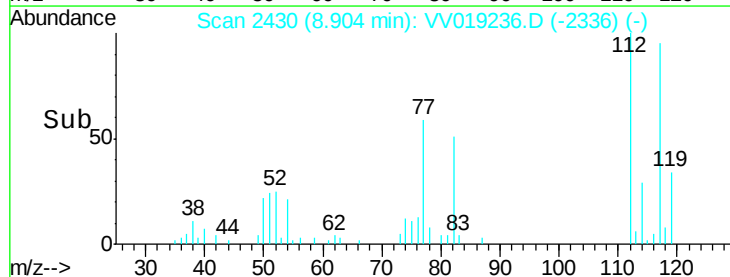
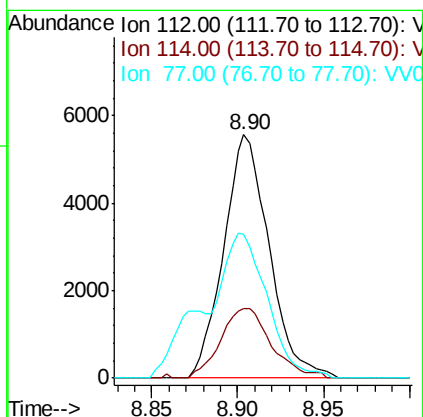
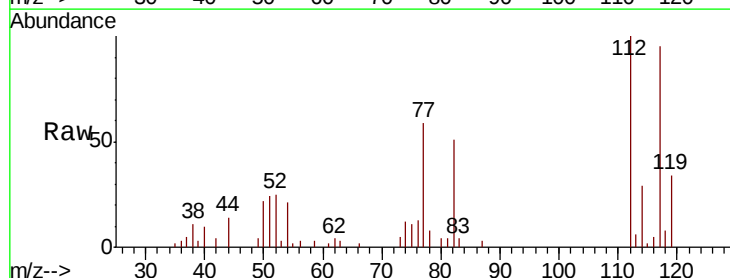
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

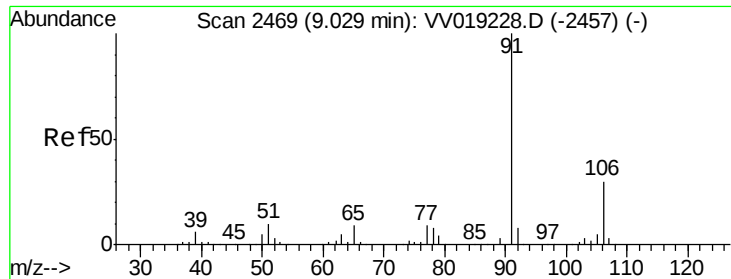
Tot Ion:107 Resp: 3802
Ion Ratio Lower Upper
107 100
109 85.0 64.8 120.4
188 0.0 3.8 5.8#



#51
Chlorobenzene
Concen: 2.406 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion:112 Resp: 10211
Ion Ratio Lower Upper
112 100
114 28.5 22.7 42.1
77 58.9 47.3 70.9

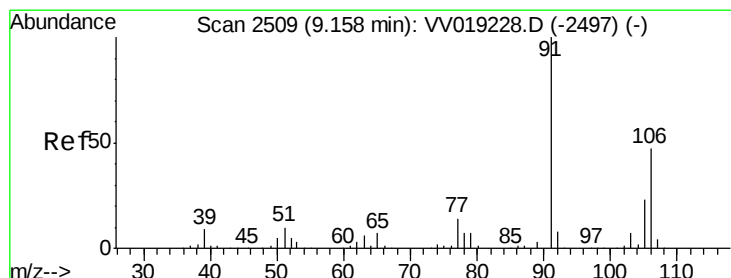
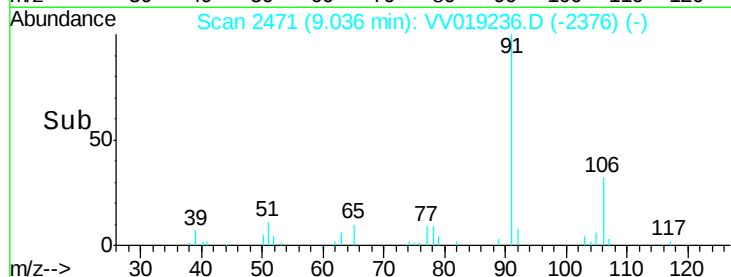
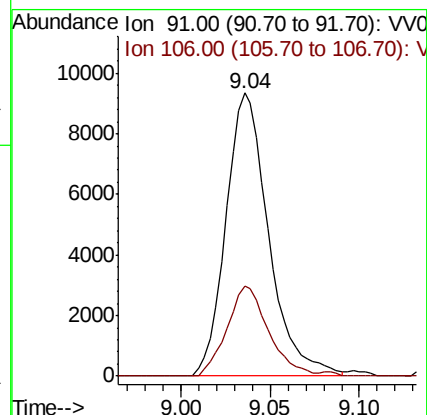
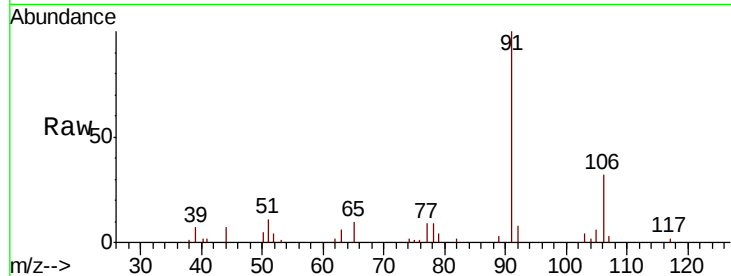




#52
Ethylbenzene
Concen: 2.221 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

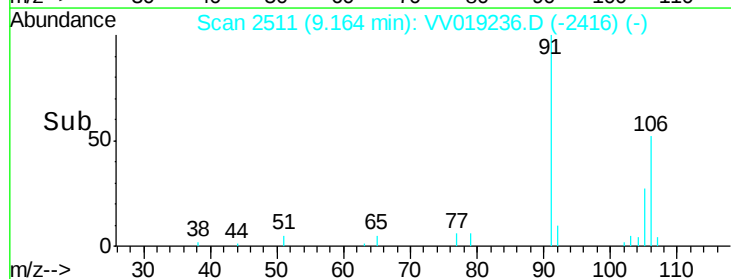
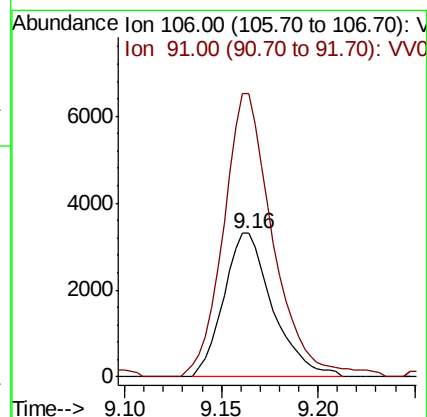
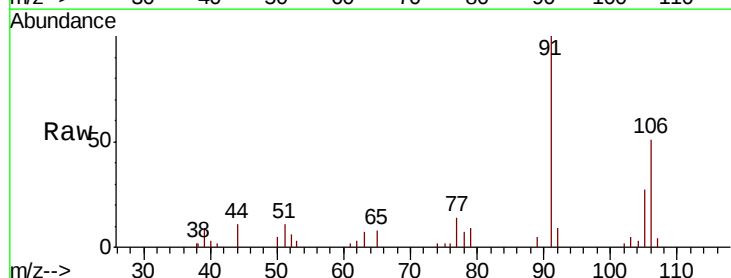
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-05

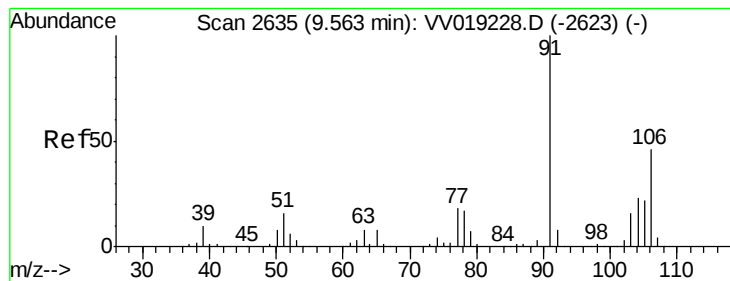
Tot Ion: 91 Resp: 15546
Ion Ratio Lower Upper
91 100
106 31.6 21.6 40.0



#53
m,p-Xylene
Concen: 2.223 ug/L
RT: 9.16 min Scan# 2511
Delta R.T. 0.01 min
Lab File: VV019236.D
Acq: 03 Nov 2020 15:12

Tgt Ion: 106 Resp: 5827
Ion Ratio Lower Upper
106 100
91 196.9 147.2 273.4





#54

o-Xylene

Concen: 2.106 ug/L

RT: 9.57 min Scan# 2637

Delta R.T. 0.01 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

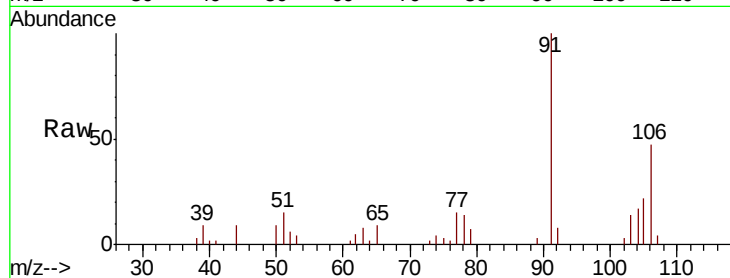
MDL-ME-SOIL-05

Tot Ion:106 Resp: 5441

Ion Ratio Lower Upper

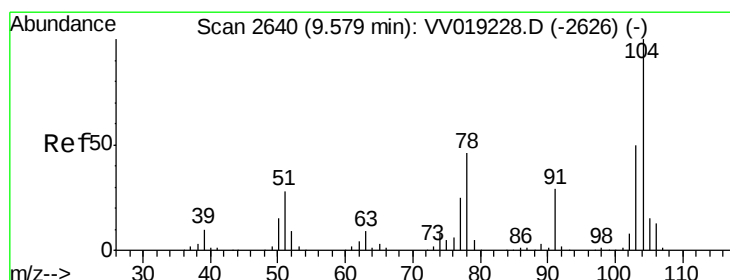
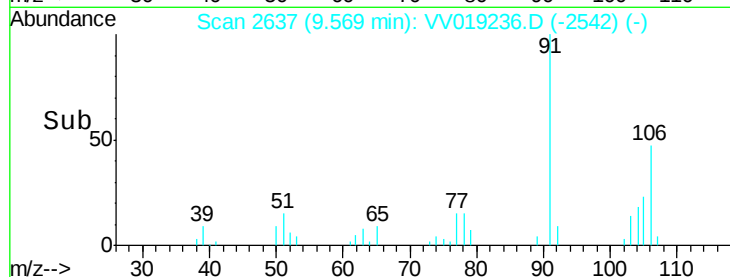
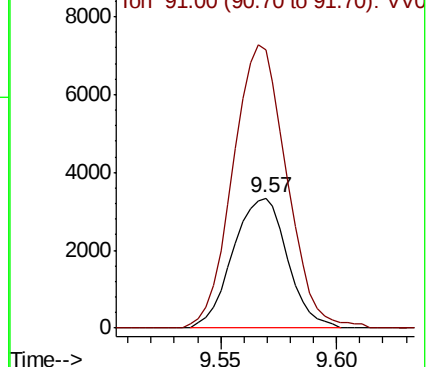
106 100

91 214.0 151.6 281.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 1.967 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.01 min

Lab File: VV019236.D

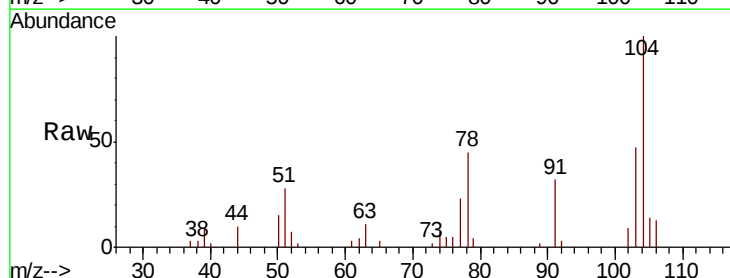
Acq: 03 Nov 2020 15:12

Tgt Ion:104 Resp: 9047

Ion Ratio Lower Upper

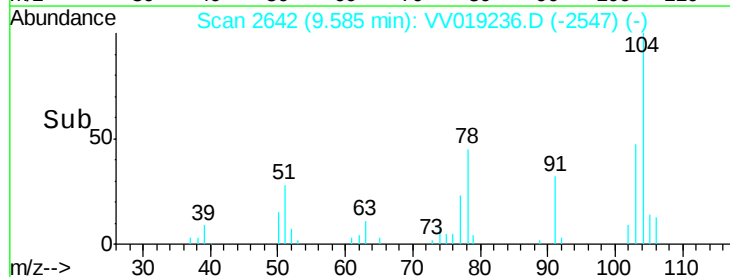
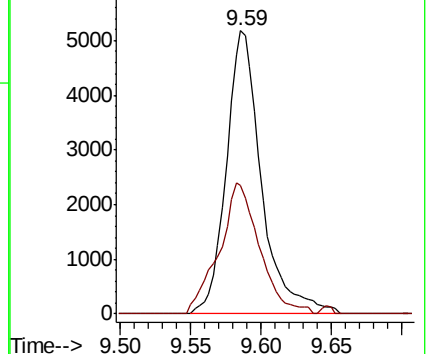
104 100

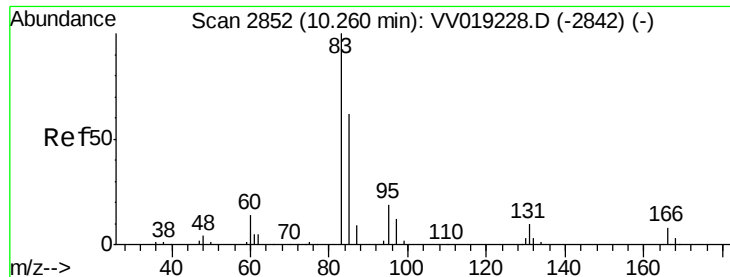
78 45.5 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

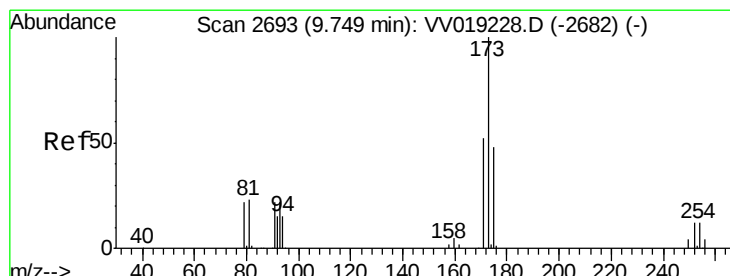
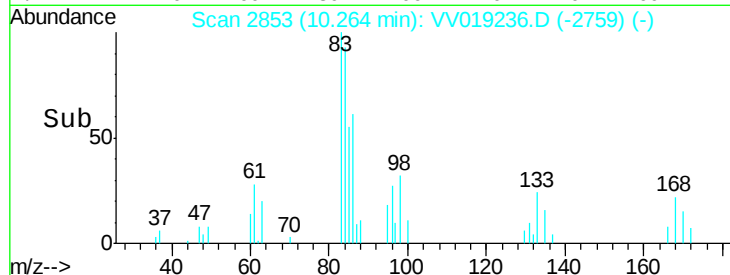
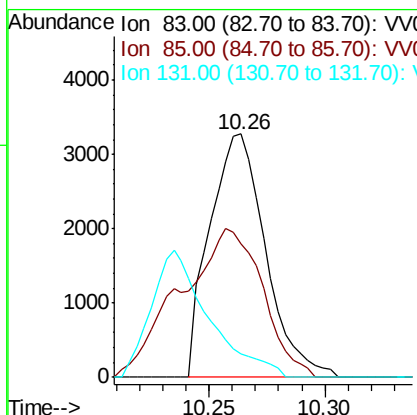
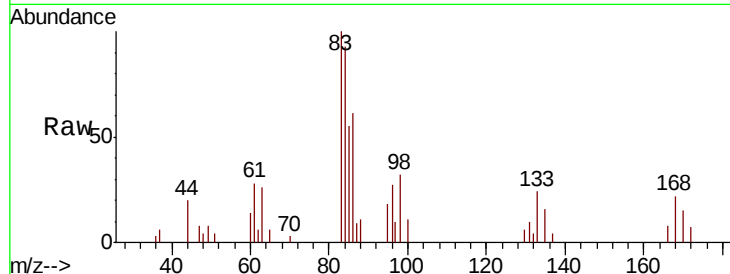




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.337 ug/L
 RT: 10.26 min Scan# 2853
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

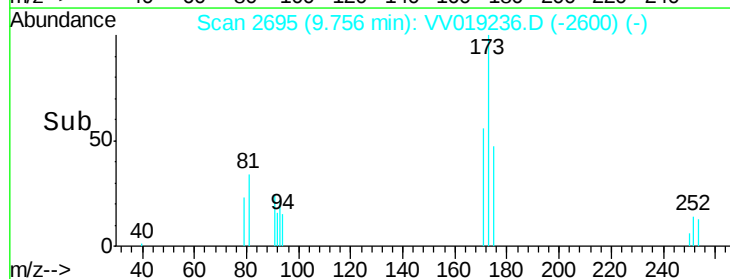
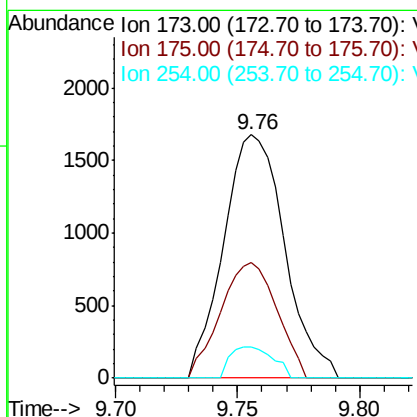
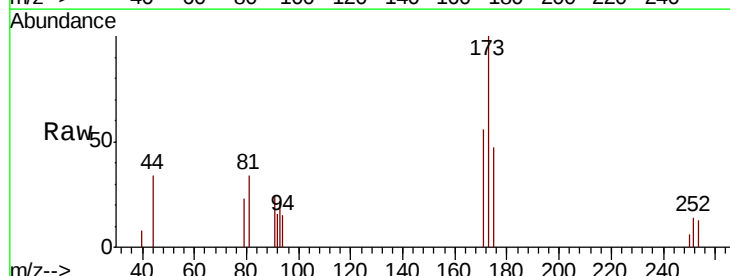
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

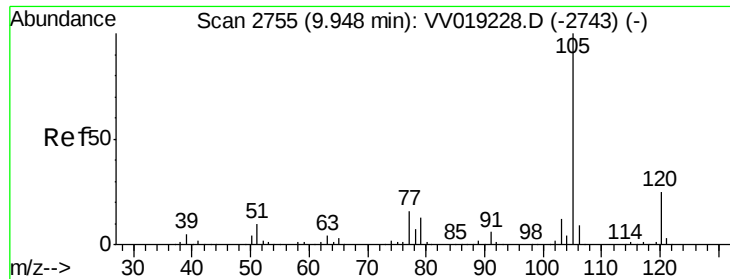
Tot Ion: 83 Resp: 5476
 Ion Ratio Lower Upper
 83 100
 85 54.7 45.0 83.6
 131 9.6 8.9 13.3



#59
 Bromoform
 Concen: 2.151 ug/L
 RT: 9.76 min Scan# 2695
 Delta R.T. 0.01 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion: 173 Resp: 2911
 Ion Ratio Lower Upper
 173 100
 175 43.8 38.4 57.6
 254 8.9 9.0 13.6#





#60

Isopropylbenzene

Concen: 2.193 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

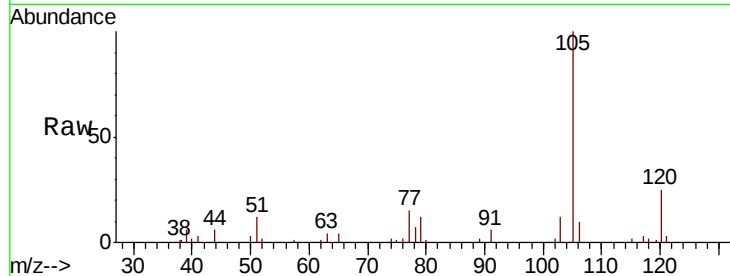
Tot Ion:105 Resp: 14019

Ion Ratio Lower Upper

105 100

120 25.3 21.0 31.4

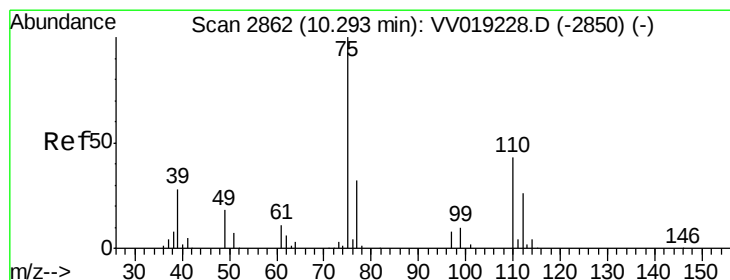
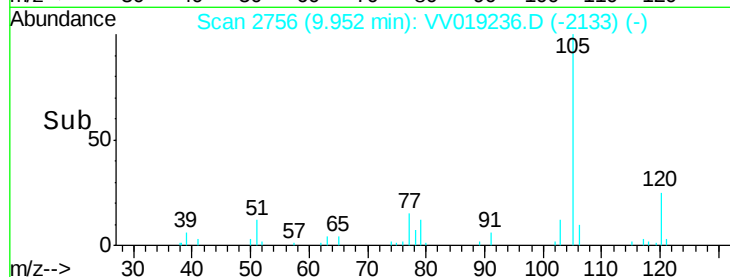
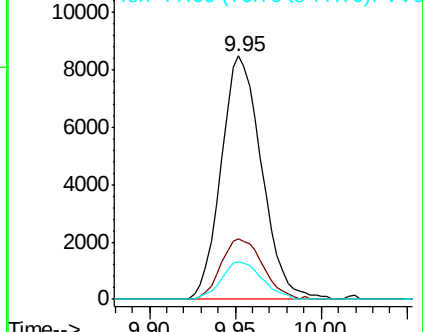
77 15.3 13.0 19.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 2.388 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

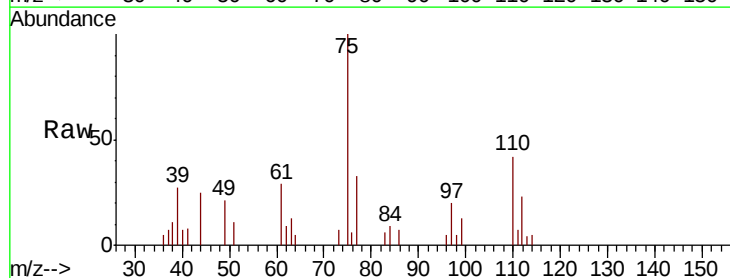
Tgt Ion: 75 Resp: 4525

Ion Ratio Lower Upper

75 100

77 33.0 24.8 37.2

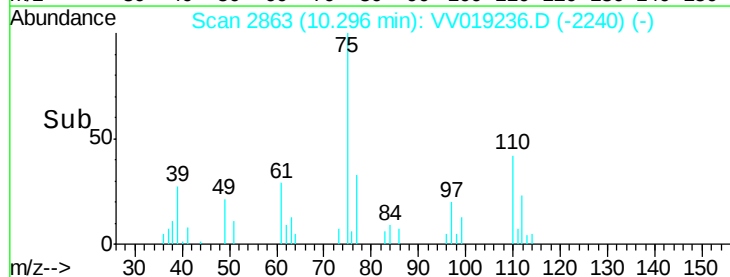
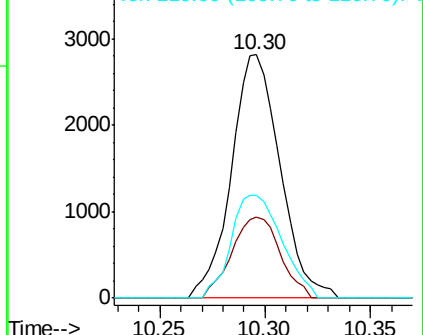
110 43.8 33.4 50.2

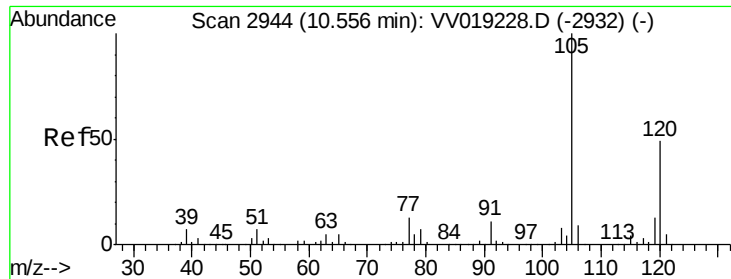


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 110.00 (109.70 to 110.70): V

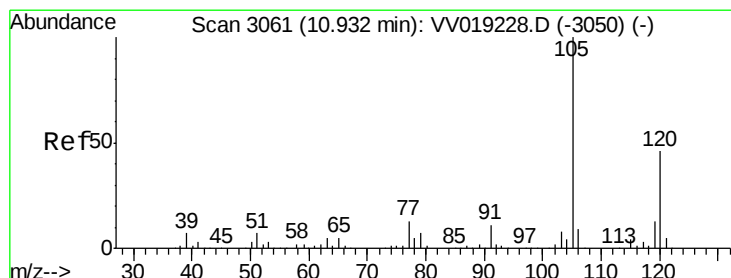
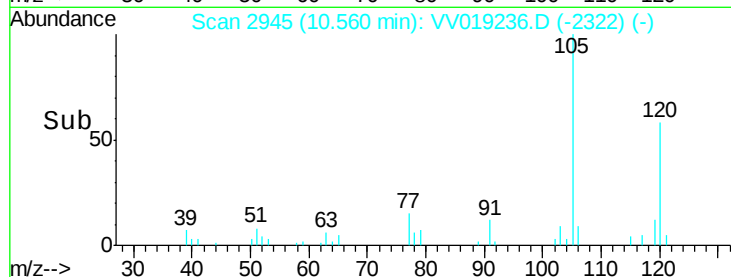
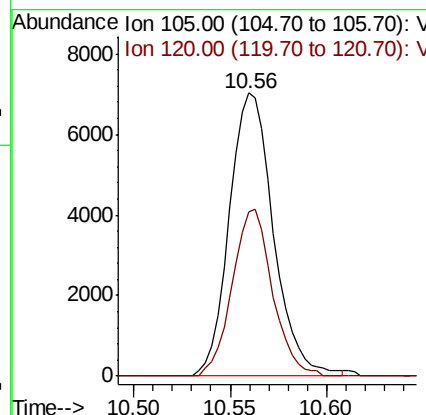
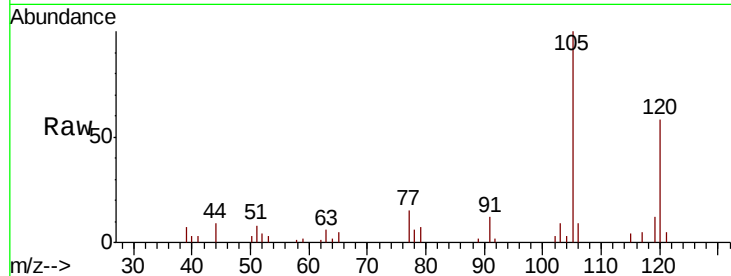




#62
 1,3,5-Trimethylbenzene
 Concen: 2.090 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

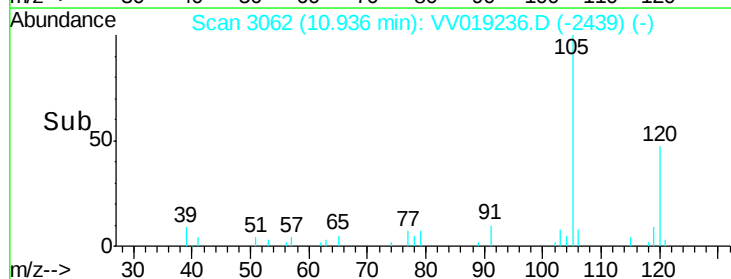
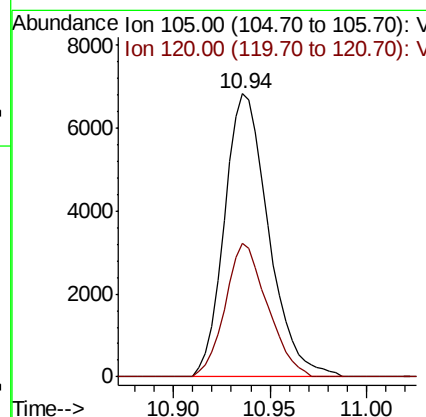
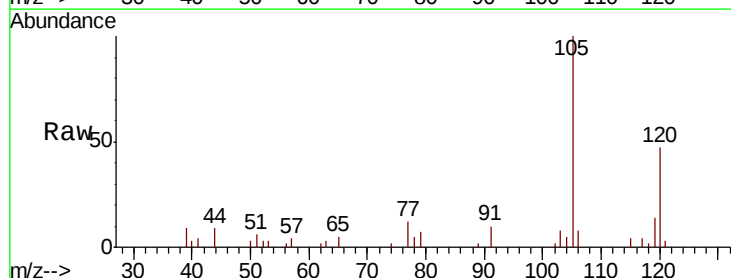
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

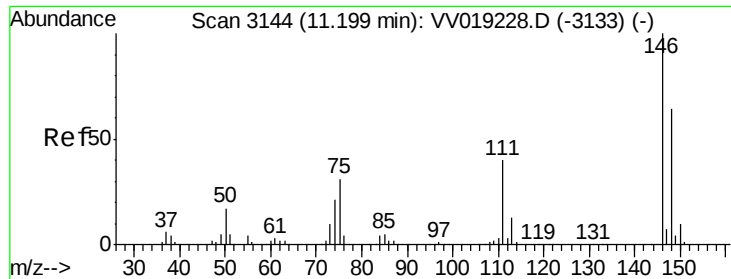
Tot Ion:105 Resp: 11126
 Ion Ratio Lower Upper
 105 100
 120 53.7 38.3 57.5



#63
 1,2,4-Trimethylbenzene
 Concen: 2.082 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion:105 Resp: 10844
 Ion Ratio Lower Upper
 105 100
 120 44.9 35.7 53.5

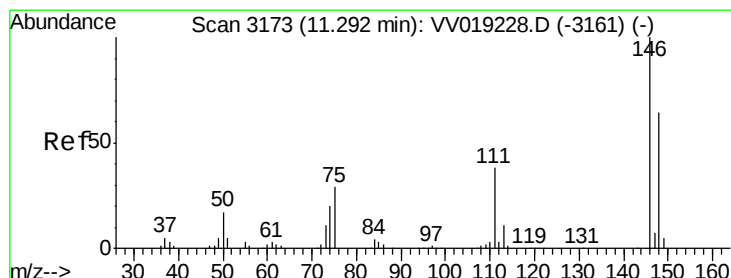
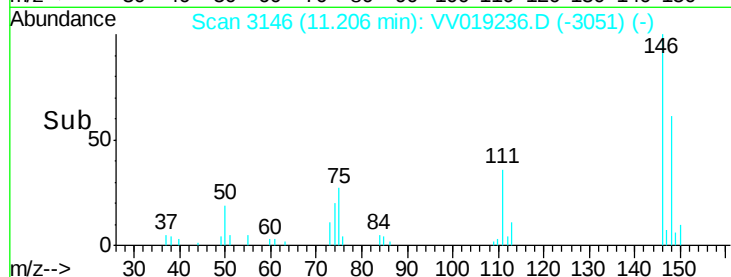
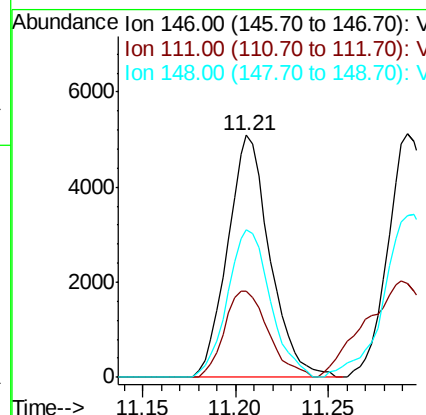
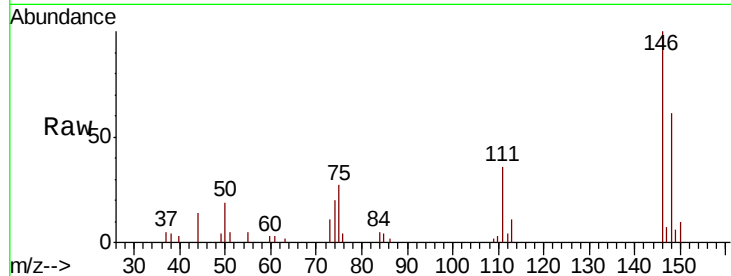




#64
 1,3-Dichlorobenzene
 Concen: 2.407 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.01 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

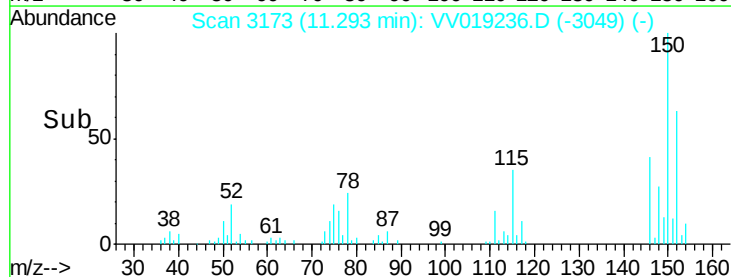
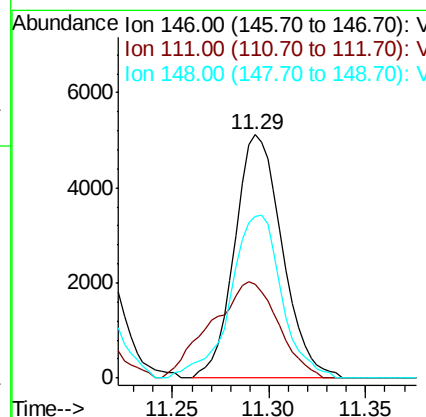
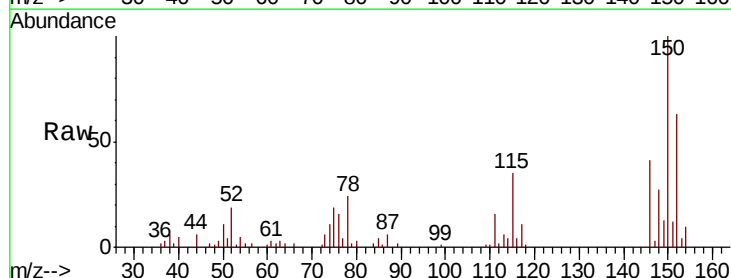
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

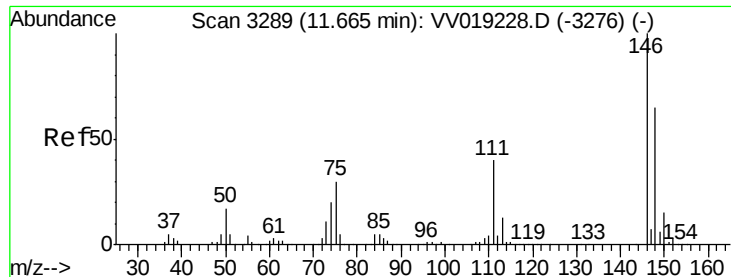
Tot Ion:146 Resp: 8046
 Ion Ratio Lower Upper
 146 100
 111 35.6 27.3 50.7
 148 61.0 45.2 84.0



#65
 1,4-Dichlorobenzene
 Concen: 2.529 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion:146 Resp: 8747
 Ion Ratio Lower Upper
 146 100
 111 38.4 25.9 48.1
 148 66.5 44.9 83.5

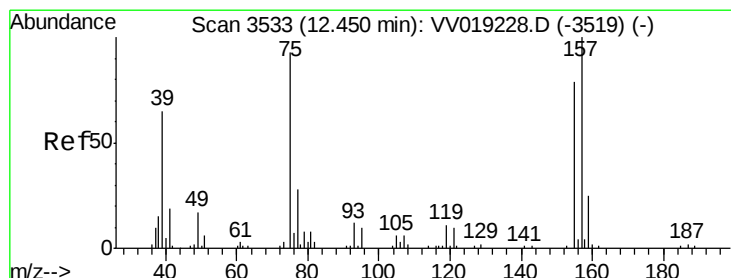
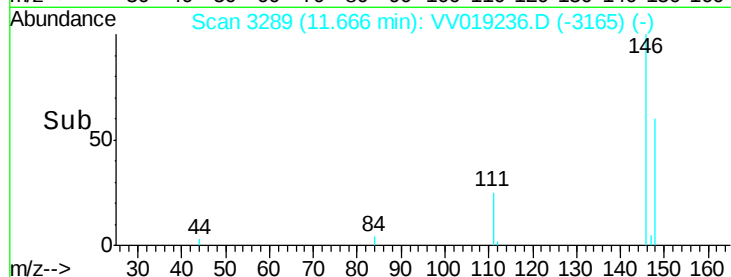
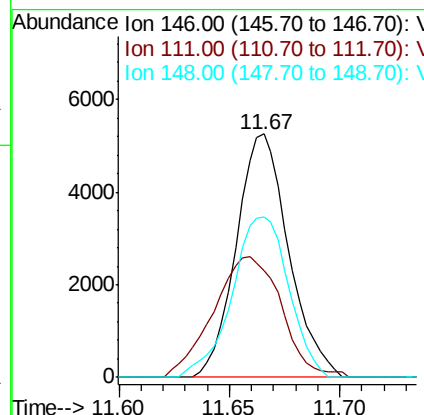
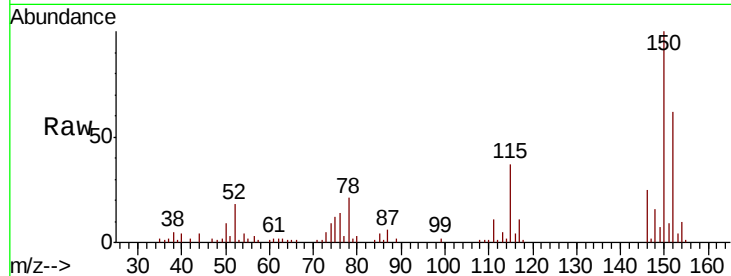




#67
 1,2-Dichlorobenzene
 Concen: 2.531 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

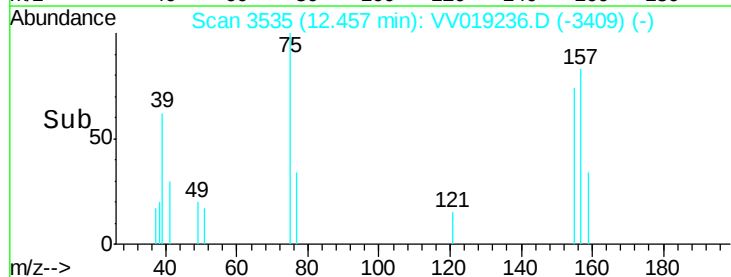
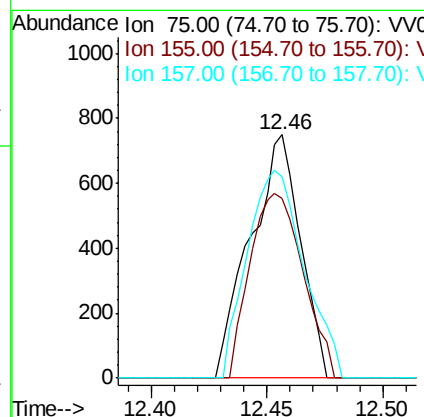
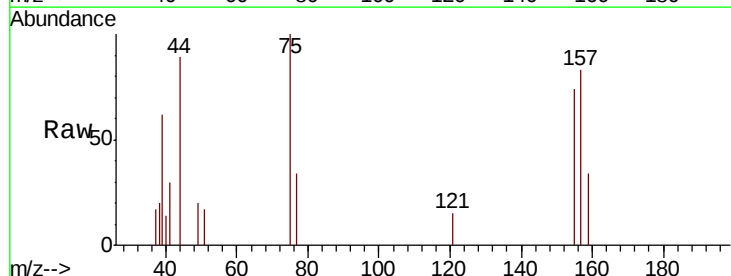
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

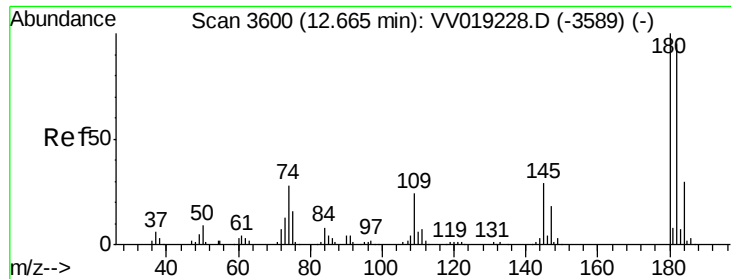
Tot Ion:146 Resp: 8657
 Ion Ratio Lower Upper
 146 100
 111 43.6 32.6 48.8
 148 65.7 50.1 75.1



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.028 ug/L
 RT: 12.46 min Scan# 3535
 Delta R.T. 0.01 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion: 75 Resp: 1121
 Ion Ratio Lower Upper
 75 100
 155 73.9 65.8 98.6
 157 82.8 86.3 129.5#

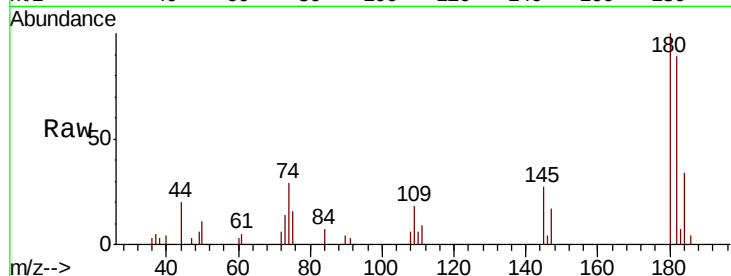




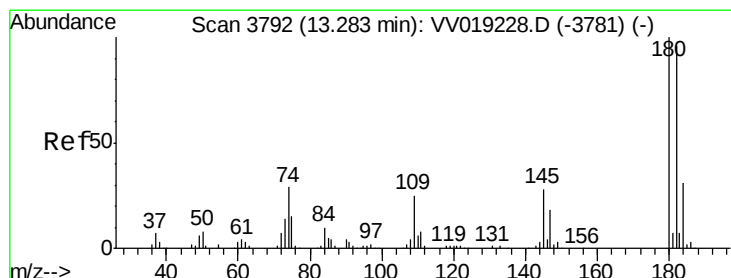
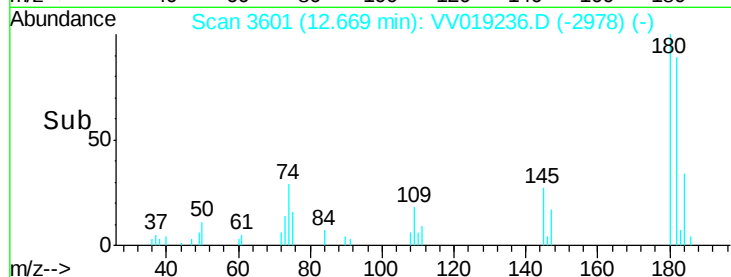
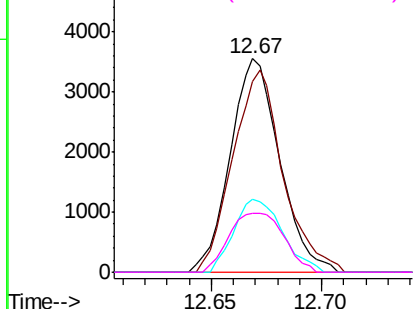
#69
 1,3,5-Trichlorobenzene
 Concen: 2.312 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-05

Tot Ion:180 Resp: 5548
 Ion Ratio Lower Upper
 180 100
 182 96.0 77.7 116.5
 184 33.5 24.9 37.3
 145 30.7 23.4 35.0

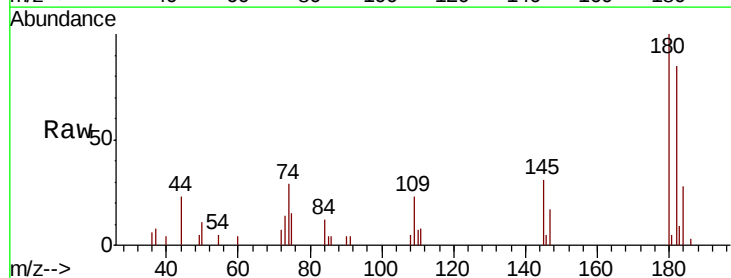


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

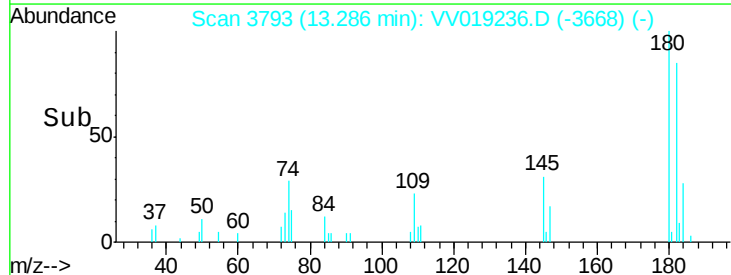
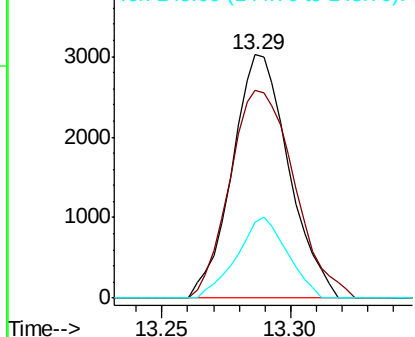


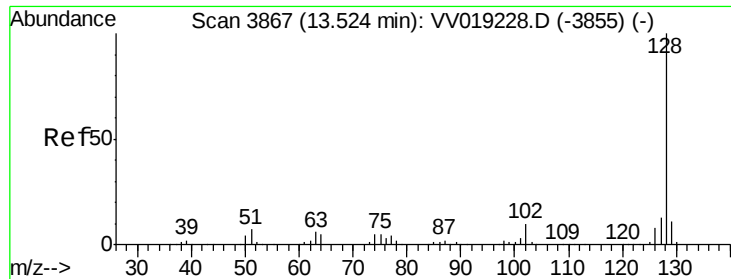
#70
 1,2,4-trichlorobenzene
 Concen: 2.041 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV019236.D
 Acq: 03 Nov 2020 15:12

Tgt Ion:180 Resp: 4608
 Ion Ratio Lower Upper
 180 100
 182 97.3 76.6 114.8
 145 29.7 23.2 34.8



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





#71

Naphthalene

Concen: 1.534 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.01 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-05

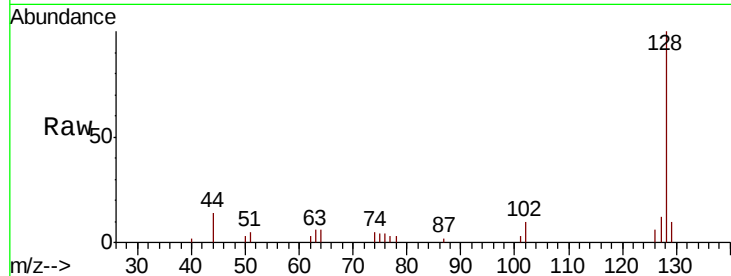
Tot Ion:128 Resp: 9769

Ion Ratio Lower Upper

128 100

127 13.2 10.7 16.1

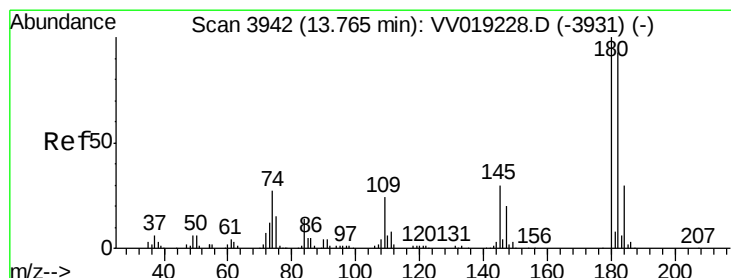
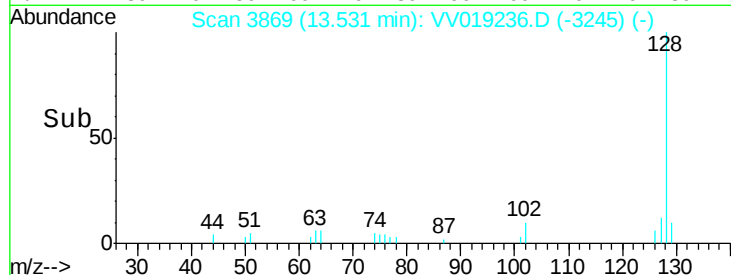
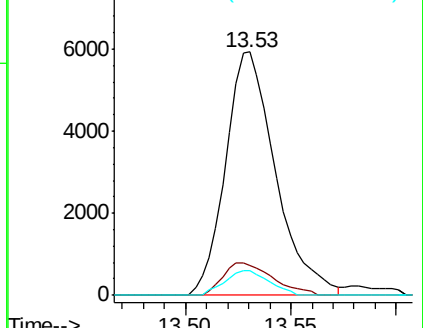
129 8.9 8.6 13.0



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: 2.122 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV019236.D

Acq: 03 Nov 2020 15:12

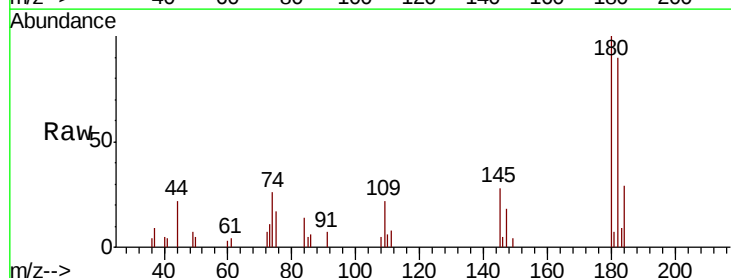
Tgt Ion:180 Resp: 4750

Ion Ratio Lower Upper

180 100

182 92.5 77.4 116.0

145 29.3 24.7 37.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

