

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110420\
 Data File : VV019235.D
 Acq On : 03 Nov 2020 14:48
 Operator : SY/MD
 Sample : L4485-18
 Misc : 5.0µL/5.0mL/100µL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL-ME-SOIL-04

Quant Time: Nov 04 07:14:26 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	244380	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	235875	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	122459	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	85391	45.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.56%
7) Chloroethane-d5	1.58	69	72640	49.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.30%
11) 1,1-Dichloroethene-d2	2.12	63	137080	39.26	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.52%
21) 2-Butanone-d5	3.91	46	109303	105.11	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.11%
24) Chloroform-d	4.37	84	166076	47.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.10%
26) 1,2-Dichloroethane-d4	5.06	65	117248	47.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.34%
32) Benzene-d6	5.07	84	312414	47.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.94%
36) 1,2-Dichloropropane-d6	6.09	67	96143	49.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.88%
41) Toluene-d8	7.34	98	289879	47.78	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.56%
43) trans-1,3-Dichloropropene-	7.64	79	51990	47.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.44%
47) 2-Hexanone-d5	8.11	63	72507	96.04	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.04%
56) 1,1,2,2-Tetrachloroethane-	10.24	84	119496	46.12	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.24%
66) 1,2-Dichlorobenzene-d4	11.65	152	121765	49.70	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	3489	2.330 ug/L	99
3) Chloromethane	1.25	50	3416	2.191 ug/L	94
5) Vinyl chloride	1.32	62	4044	2.492 ug/L #	52
6) Bromomethane	1.53	94	2586	2.371 ug/L	96
8) Chloroethane	1.60	64	2536	2.390 ug/L	93
9) Trichlorofluoromethane	1.77	101	6327	2.355 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4177	3.272 ug/L #	80
12) 1,1-Dichloroethene	2.13	96	4066	3.082 ug/L #	1
13) Acetone	2.19	43	4560	5.766 ug/L	95
14) Carbon disulfide	2.31	76	9069	2.394 ug/L	96
15) Methyl Acetate	2.46	43	3441	2.246 ug/L #	81
16) Methylene chloride	2.52	84	3620	2.308 ug/L	91
17) trans-1,2-Dichloroethene	2.78	96	2892	2.021 ug/L	92
18) Methyl tert-butyl Ether	2.78	73	10551	2.097 ug/L	98
19) 1,1-Dichloroethane	3.22	63	6120	2.182 ug/L	92
20) cis-1,2-Dichloroethene	3.94	96	3373	2.133 ug/L	99
23) Bromochloromethane	4.28	128	940	1.079 ug/L	95

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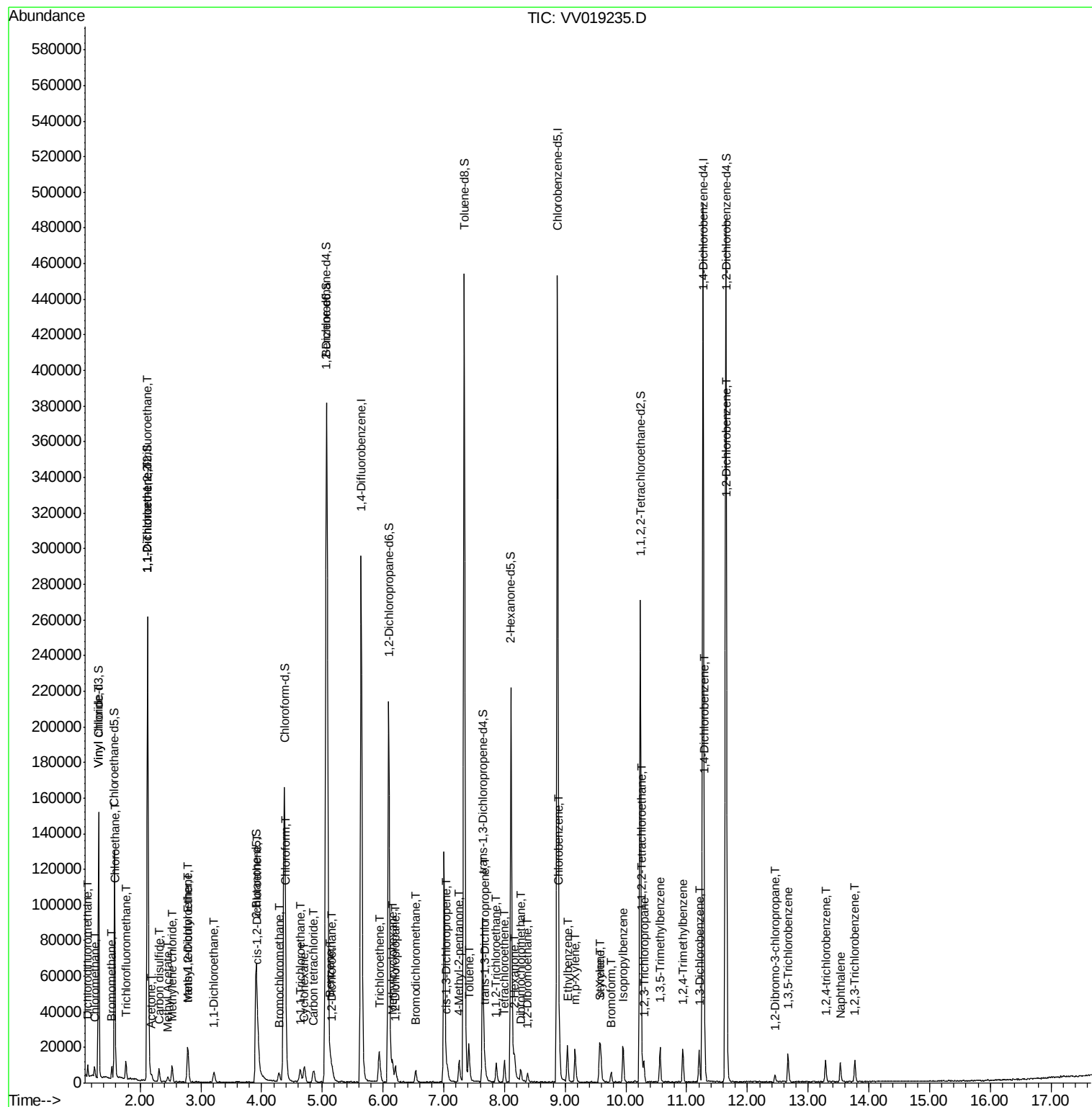
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.41	83	8045	2.676	ug/L	98
27) 1,2-Dichloroethane	5.16	62	4990	1.953	ug/L	97
29) Cyclohexane	4.69	56	2021	1.001	ug/L #	1
30) 1,1,1-Trichloroethane	4.64	97	5716	2.089	ug/L #	88
31) Carbon tetrachloride	4.86	117	4855	2.055	ug/L	97
33) Benzene	5.13	78	13159	2.245	ug/L	100
34) Trichloroethene	5.94	95	3427	2.151	ug/L	94
35) Methylcyclohexane	6.16	83	4037	2.094	ug/L	91
37) 1,2-Dichloropropane	6.21	63	2946	1.883	ug/L #	93
38) Bromodichloromethane	6.54	83	4730	2.101	ug/L	92
39) cis-1,3-Dichloropropene	7.05	75	4668	1.865	ug/L	90
40) 4-Methyl-2-pentanone	7.25	43	8397	3.995	ug/L	98
42) Toluene	7.41	91	15030	2.372	ug/L	99
44) trans-1,3-Dichloropropene	7.68	75	5371	2.094	ug/L	95
45) 1,1,2-Trichloroethane	7.86	97	3254	2.104	ug/L	92
46) Tetrachloroethene	8.00	164	2694	2.073	ug/L	90
48) 2-Hexanone	8.16	43	8470	5.331	ug/L	92
49) Dibromochloromethane	8.27	129	3600	1.952	ug/L	96
50) 1,2-Dibromoethane	8.38	107	3444	2.149	ug/L #	94
51) Chlorobenzene	8.90	112	9253	2.183	ug/L	98
52) Ethylbenzene	9.04	91	14013	2.005	ug/L	97
53) m,p-Xylene	9.16	106	5165	1.974	ug/L	99
54) o-Xylene	9.57	106	5017	1.945	ug/L	99
55) Styrene	9.59	104	8612	1.875	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.26	83	5394	2.306	ug/L	89
59) Bromoform	9.76	173	2632	1.937	ug/L #	97
60) Isopropylbenzene	9.95	105	12518	1.950	ug/L	99
61) 1,2,3-Trichloropropane	10.30	75	4334	2.278	ug/L	98
62) 1,3,5-Trimethylbenzene	10.56	105	10512	1.966	ug/L	99
63) 1,2,4-Trimethylbenzene	10.94	105	10171	1.944	ug/L	98
64) 1,3-Dichlorobenzene	11.21	146	6781	2.020	ug/L	88
65) 1,4-Dichlorobenzene	11.30	146	8542	2.459	ug/L	95
67) 1,2-Dichlorobenzene	11.67	146	8420	2.452	ug/L	94
68) 1,2-Dibromo-3-chloropropan	12.45	75	1021	1.840	ug/L	89
69) 1,3,5-Trichlorobenzene	12.67	180	5140	2.133	ug/L	99
70) 1,2,4-trichlorobenzene	13.29	180	4540	2.002	ug/L	95
71) Naphthalene	13.53	128	9132	1.428	ug/L	99
72) 1,2,3-Trichlorobenzene	13.77	180	4048	1.801	ug/L	96

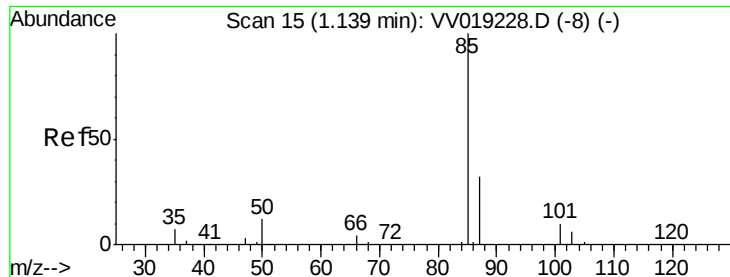
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.330 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

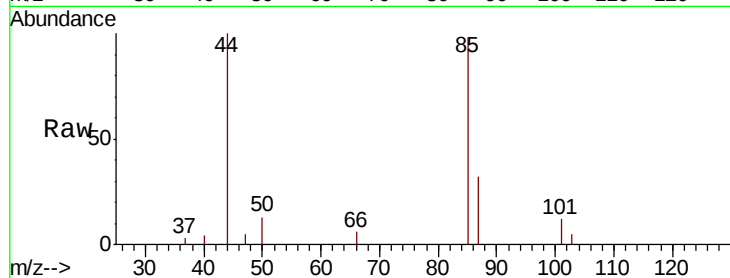
MDL-ME-SOIL-04

Tot Ion: 85 Resp: 3489

Ion Ratio Lower Upper

85 100

87 32.8 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) (-)

1.14

4000

3000

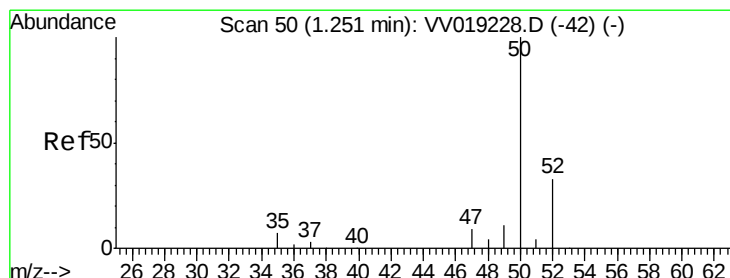
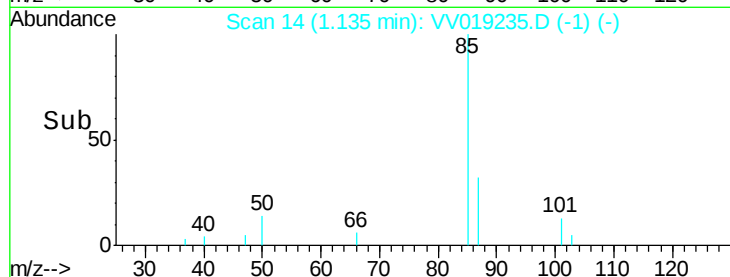
2000

1000

0

Time-->

1.10 1.12 1.14 1.16



#3

Chloromethane

Concen: 2.191 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV019235.D

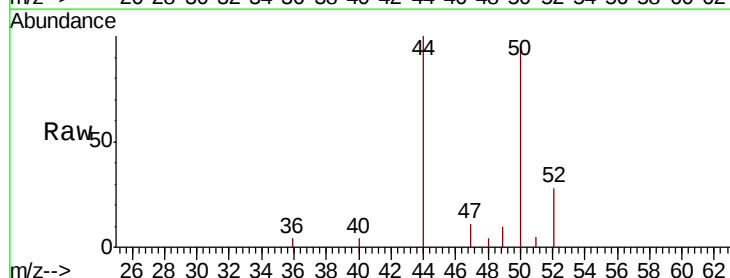
Acq: 03 Nov 2020 14:48

Tgt Ion: 50 Resp: 3416

Ion Ratio Lower Upper

50 100

52 29.2 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) (-)

1.25

4000

3000

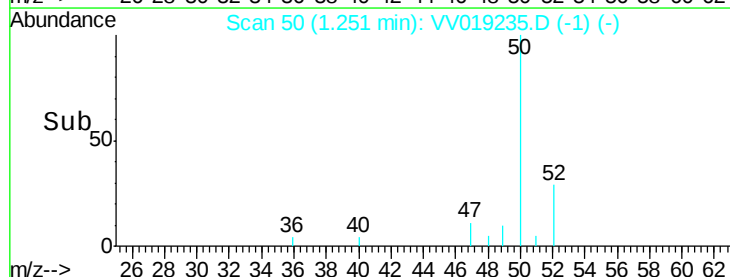
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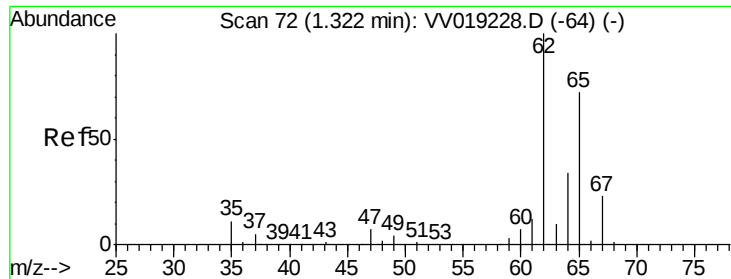
1000

0

Time-->

1.22 1.24 1.26 1.28





#5

Vinyl chloride

Concen: 2.492 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

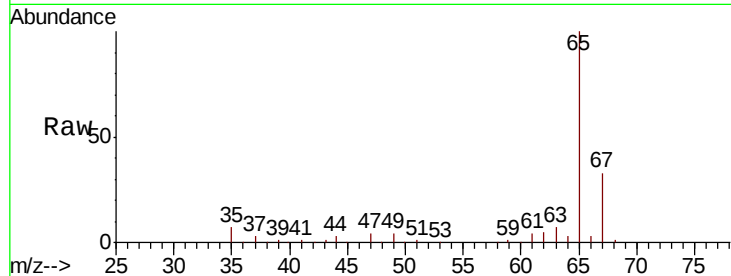
MDL-ME-SOIL-04

Tot Ion: 62 Resp: 4044

Ion Ratio Lower Upper

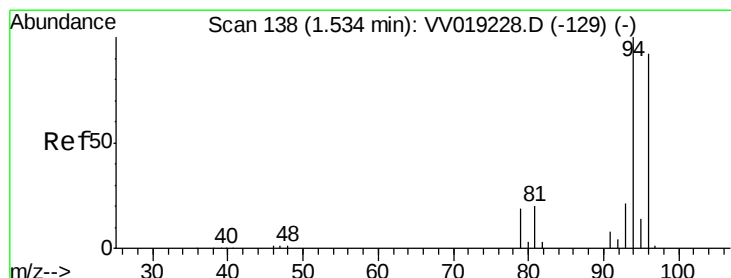
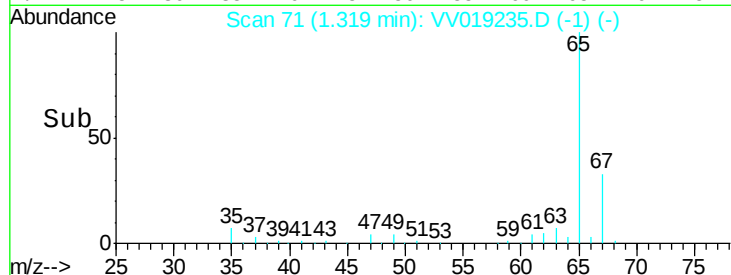
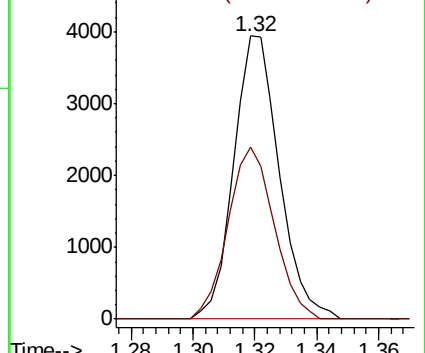
62 100

64 60.7 23.3 43.3#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.371 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV019235.D

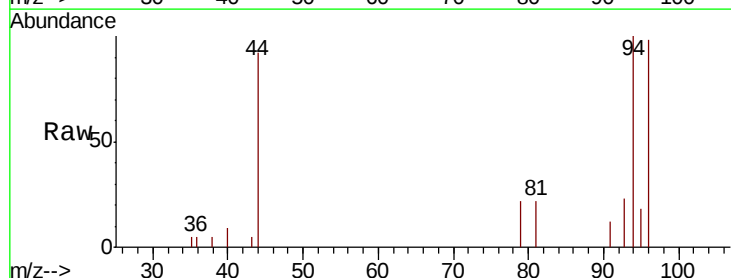
Acq: 03 Nov 2020 14:48

Tgt Ion: 94 Resp: 2586

Ion Ratio Lower Upper

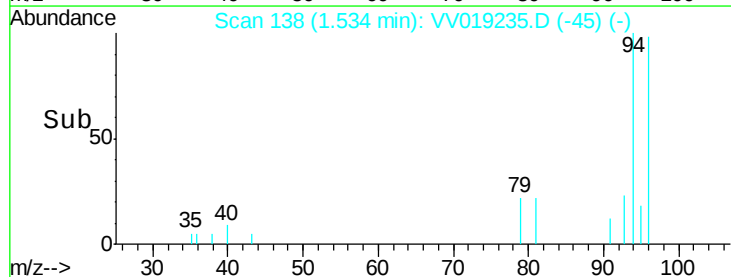
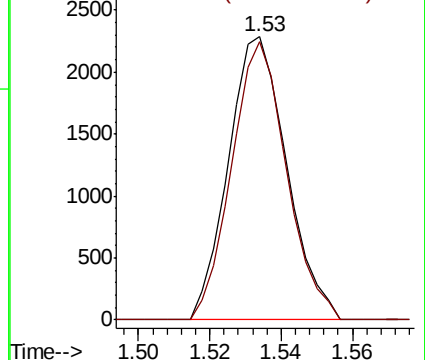
94 100

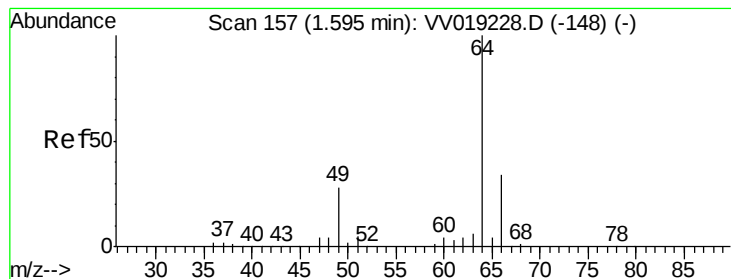
96 98.2 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 2.390 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

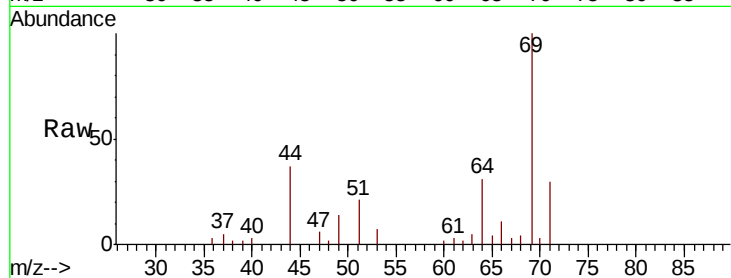
MDL-ME-SOIL-04

Tot Ion: 64 Resp: 2536

Ion Ratio Lower Upper

64 100

66 36.1 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) (-)

2500

2000

1500

1000

500

0

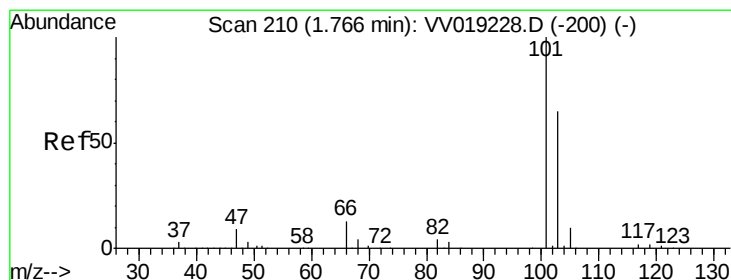
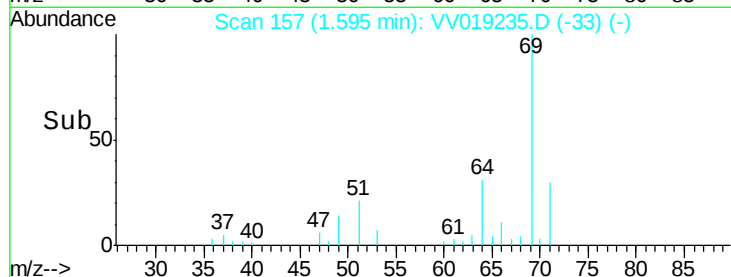
1.56

1.58

1.60

1.62

Time-->



#9

Trichlorofluoromethane

Concen: 2.355 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV019235.D

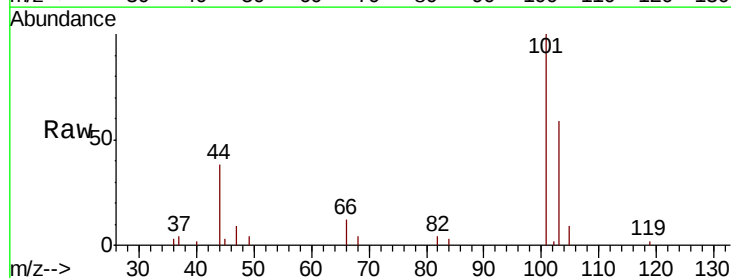
Acq: 03 Nov 2020 14:48

Tgt Ion: 101 Resp: 6327

Ion Ratio Lower Upper

101 100

103 60.4 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) (-)

5000

4000

3000

2000

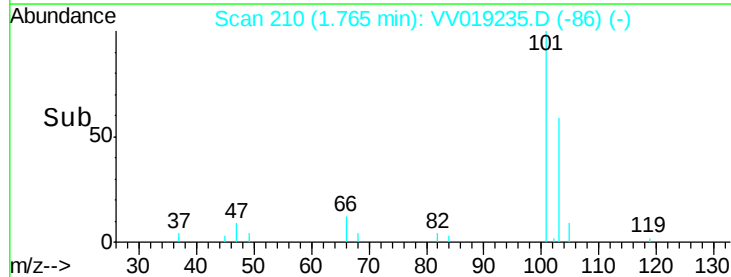
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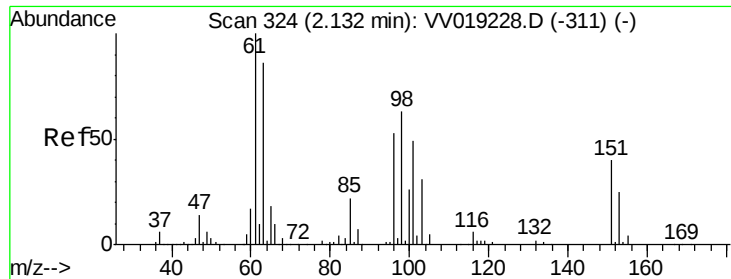
0

1.75

1.80

Time-->





#10

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

Concen: 3.272 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

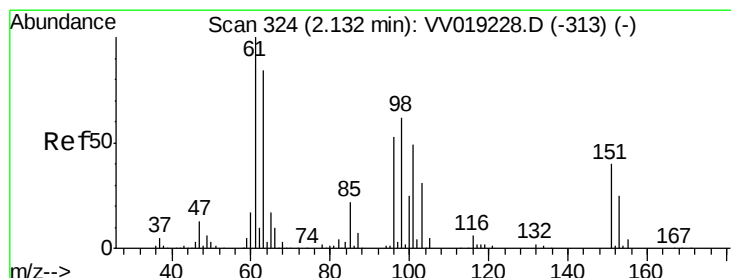
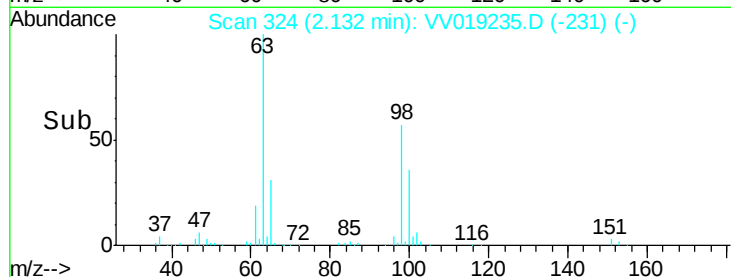
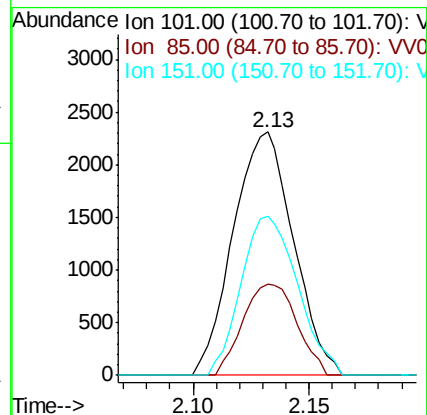
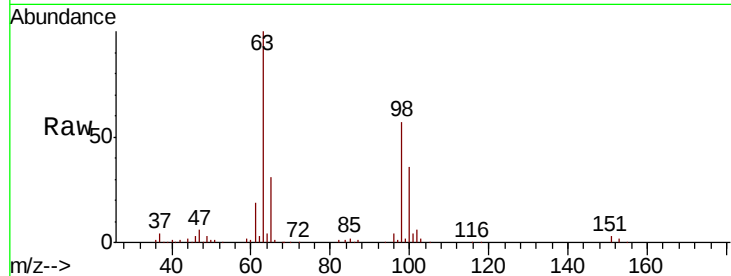
Tot Ion:101 Resp: 4177

Ion Ratio Lower Upper

101 100

85 33.6 35.6 53.4#

151 61.5 64.1 96.1#



#12

1,1-Dichloroethene

Concen: 3.082 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

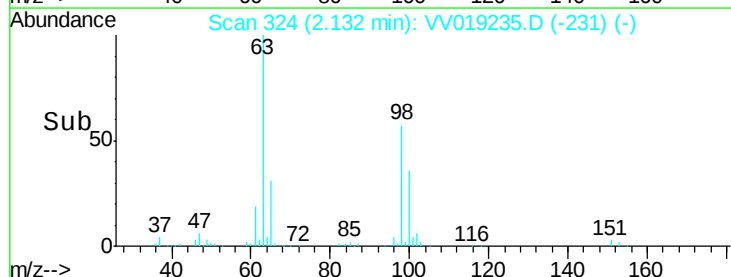
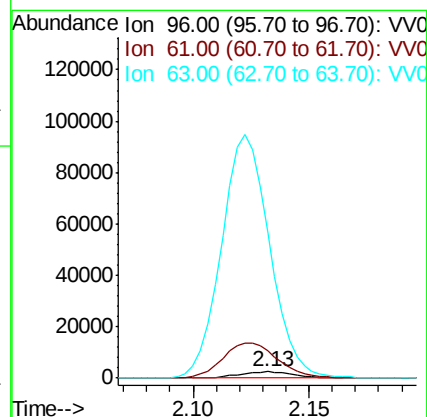
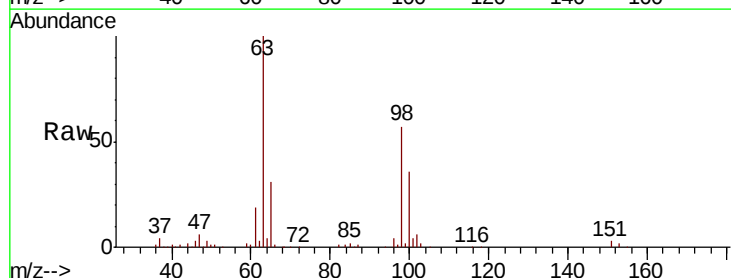
Tgt Ion: 96 Resp: 4066

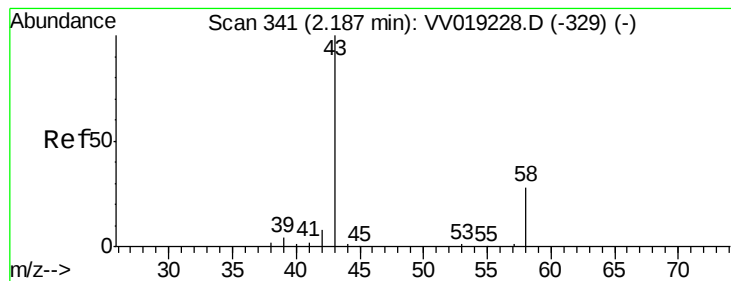
Ion Ratio Lower Upper

96 100

61 433.2 133.6 248.0#

63 2308.1 103.0 191.2#





#13

Acetone

Concen: 5.766 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

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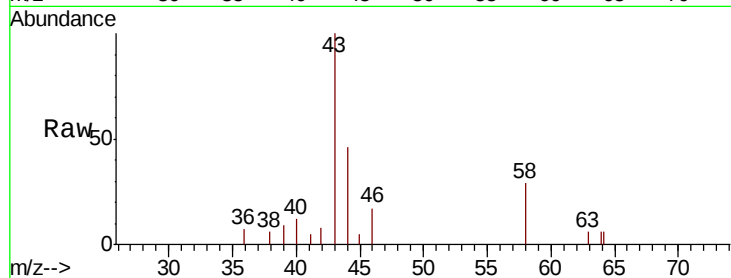
MDL-ME-SOIL-04

Tot Ion: 43 Resp: 4560

Ion Ratio Lower Upper

43 100

58 26.0 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

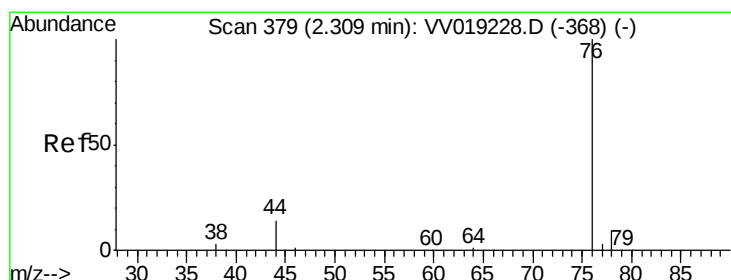
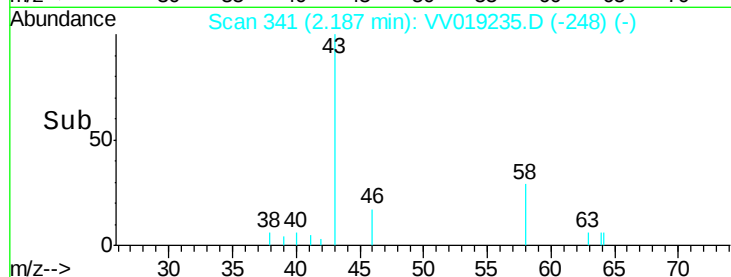
1000

500

0

Time-->

2.15 2.20 2.25



#14

Carbon disulfide

Concen: 2.394 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019235.D

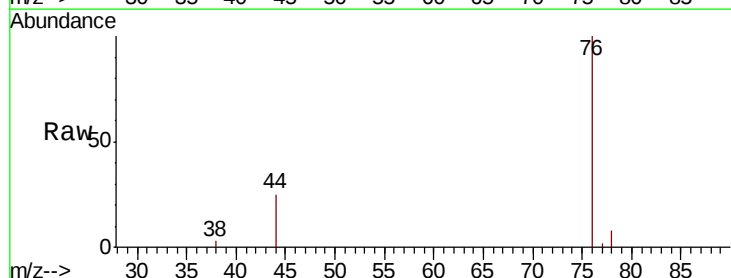
Acq: 03 Nov 2020 14:48

Tgt Ion: 76 Resp: 9069

Ion Ratio Lower Upper

76 100

78 7.9 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

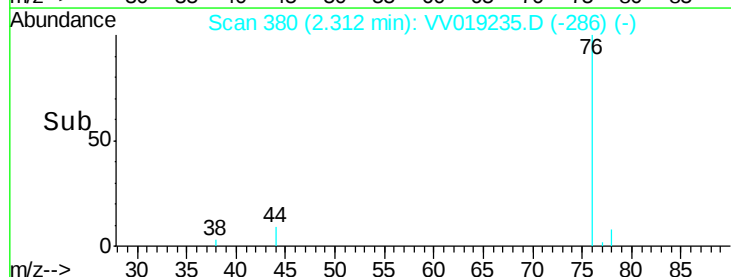
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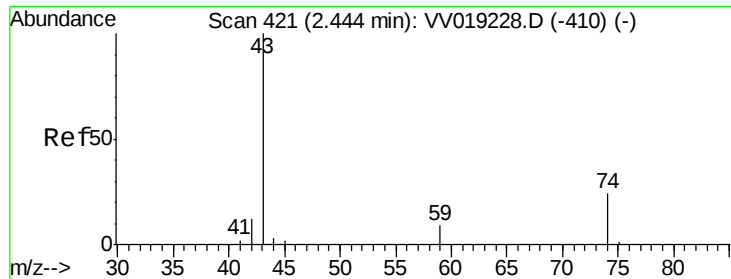
2000

0

Time-->

2.25 2.30 2.35

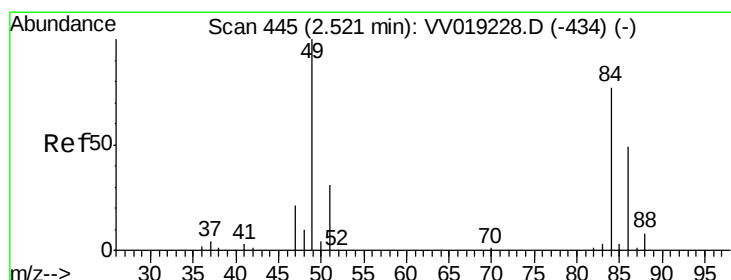
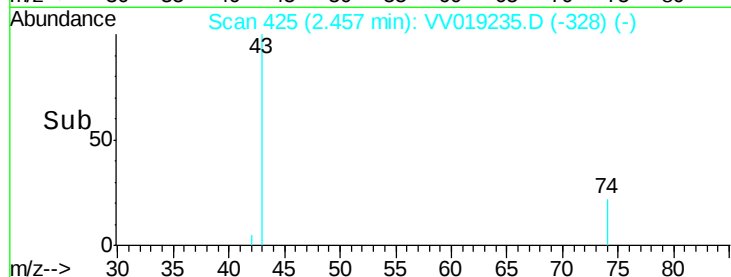
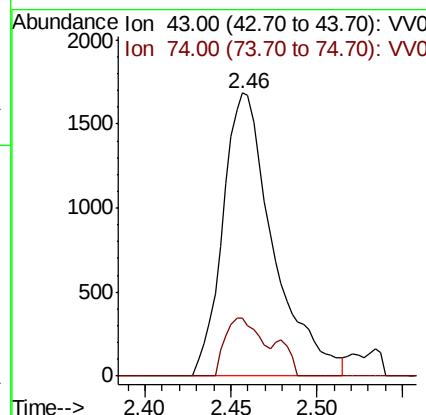
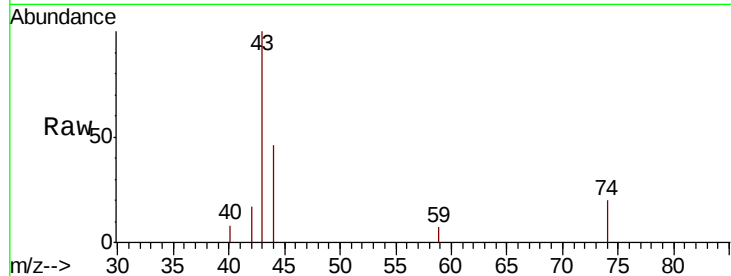




#15
Methvl Acetate
Concen: 2.246 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

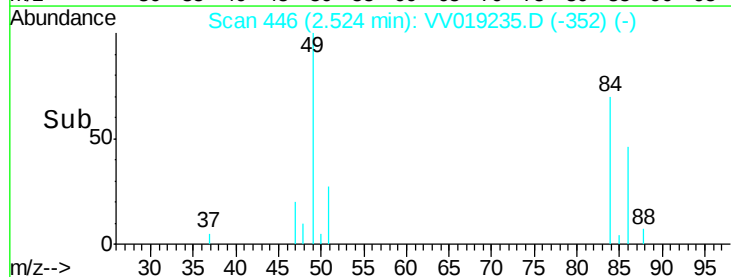
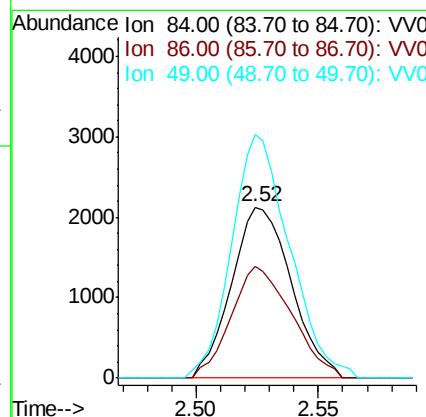
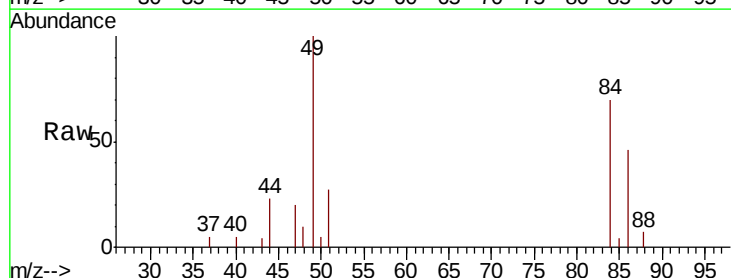
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

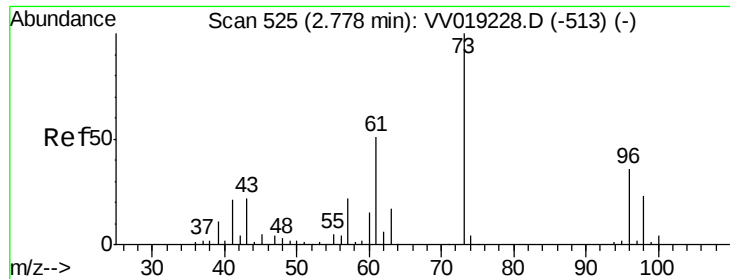
Tot Ion: 43 Resp: 3441
Ion Ratio Lower Upper
43 100
74 14.3 18.8 28.2#



#16
Methylene chloride
Concen: 2.308 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Tgt Ion: 84 Resp: 3620
Ion Ratio Lower Upper
84 100
86 65.6 45.6 84.8
49 142.2 89.3 165.9

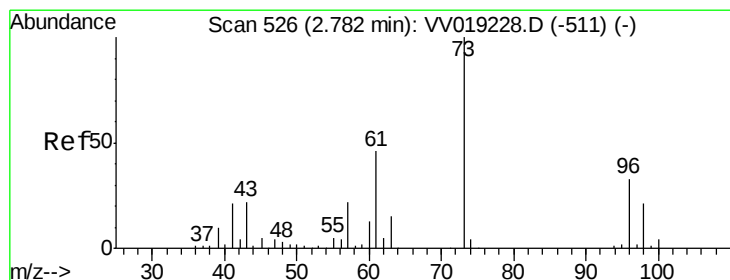
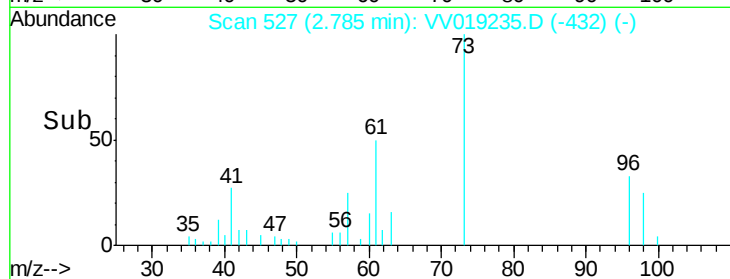
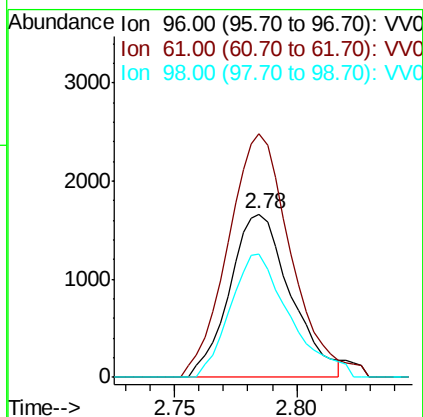
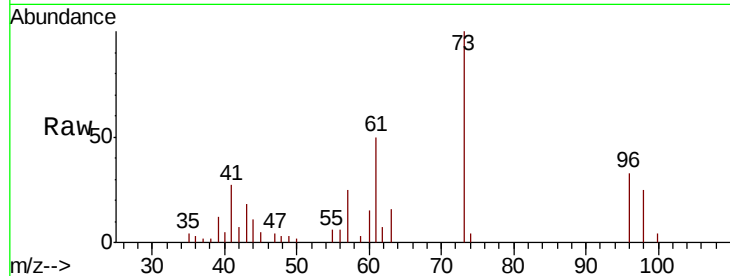




#17
trans-1,2-Dichloroethene
Concen: 2.021 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

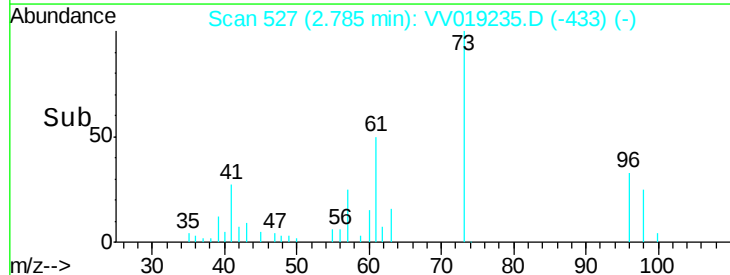
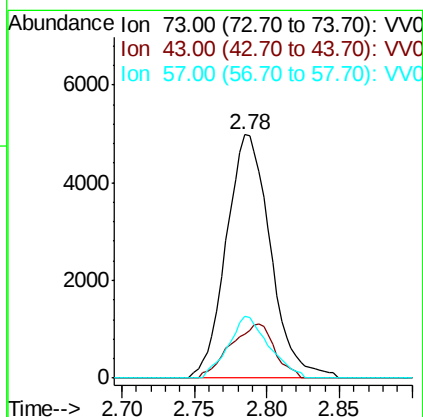
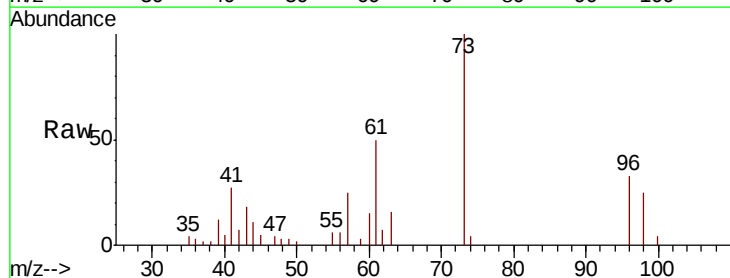
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

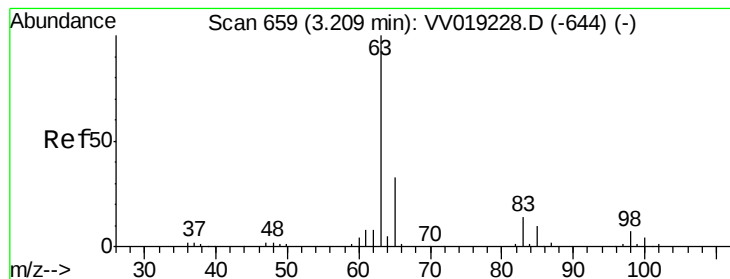
Tot Ion: 96 Resp: 2892
Ion Ratio Lower Upper
96 100
61 148.9 100.7 187.1
98 75.6 42.9 79.7



#18
Methyl tert-butyl Ether
Concen: 2.097 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Tgt Ion: 73 Resp: 10551
Ion Ratio Lower Upper
73 100
43 22.4 17.9 26.9
57 23.3 17.1 25.7





#19

1,1-Dichloroethane

Concen: 2.182 ug/L

RT: 3.22 min Scan# 661

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

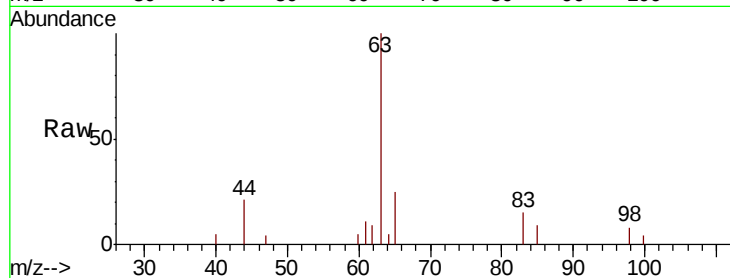
Tot Ion: 63 Resp: 6120

Ion Ratio Lower Upper

63 100

65 25.3 21.8 40.6

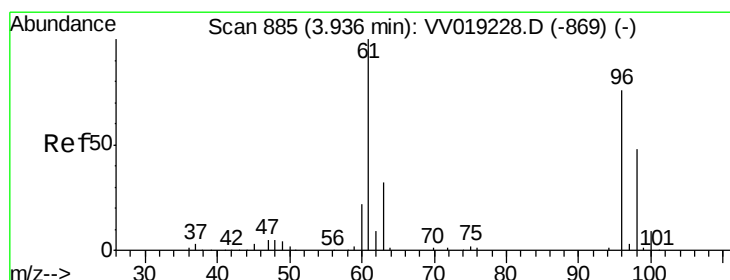
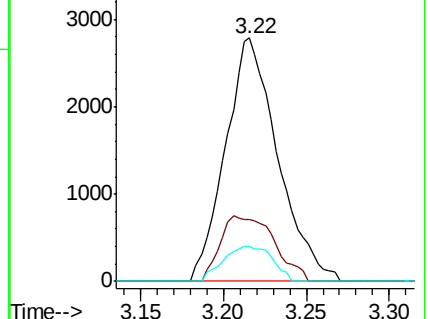
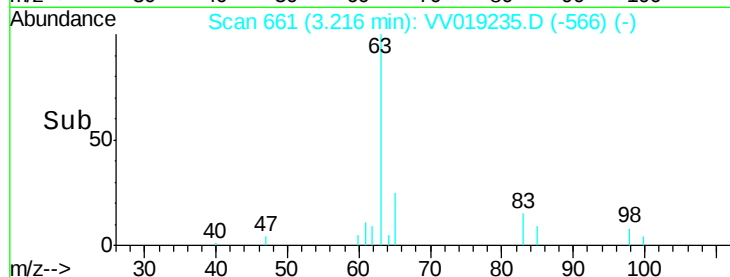
83 14.6 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VV019235.D (-566) (-)

Ion 65.00 (64.70 to 65.70): VV019235.D (-566) (-)

Ion 83.00 (82.70 to 83.70): VV019235.D (-566) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.133 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

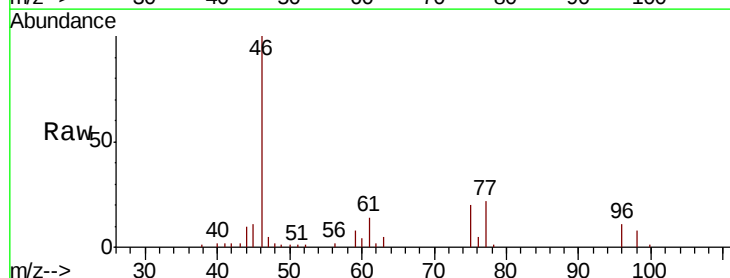
Tgt Ion: 96 Resp: 3373

Ion Ratio Lower Upper

96 100

61 134.9 95.6 177.6

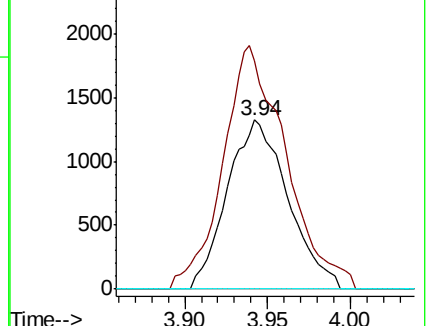
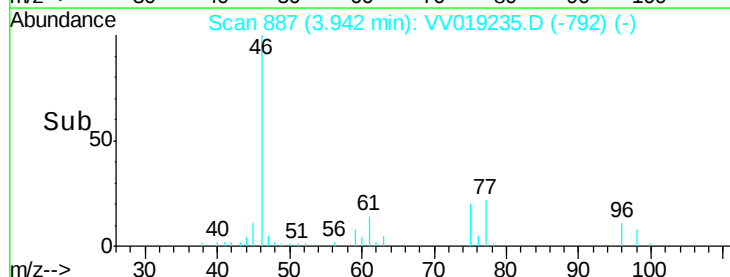
68 0.0 0.0 0.0

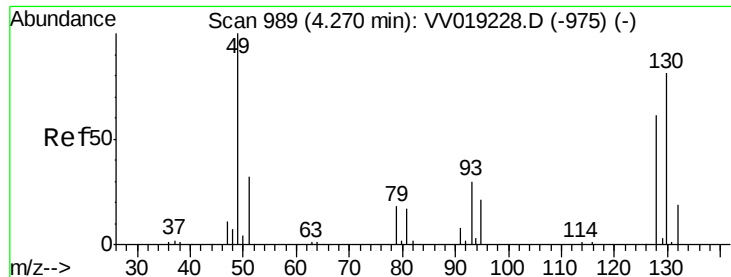


Abundance Ion 96.00 (95.70 to 96.70): VV019235.D (-792) (-)

Ion 61.00 (60.70 to 61.70): VV019235.D (-792) (-)

Ion 68.00 (67.70 to 68.70): VV019235.D (-792) (-)





#23

Bromochloromethane

Concen: 1.079 ug/L

RT: 4.28 min Scan# 992

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:128 Resp: 940

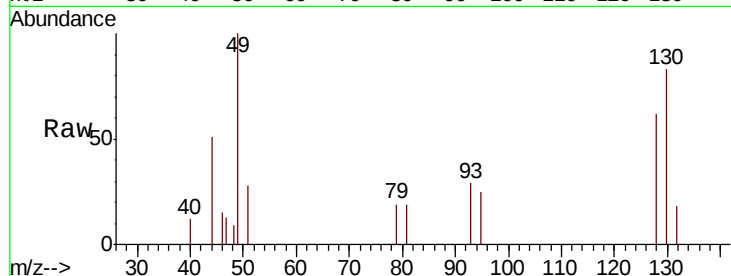
Ion Ratio Lower Upper

128 100

49 161.7 108.8 202.2

130 134.1 88.5 164.3

51 45.9 37.8 56.6

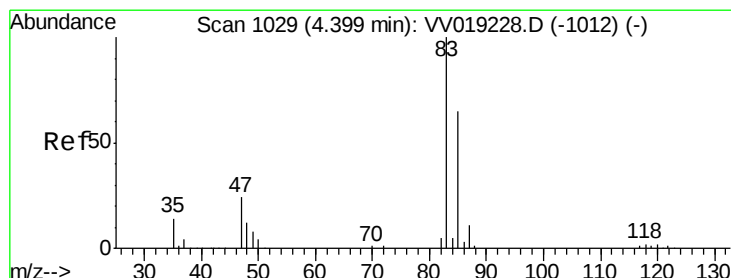
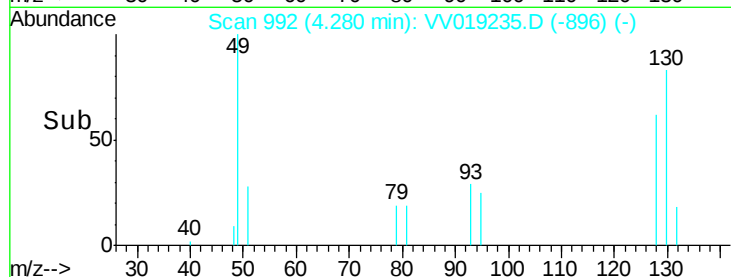
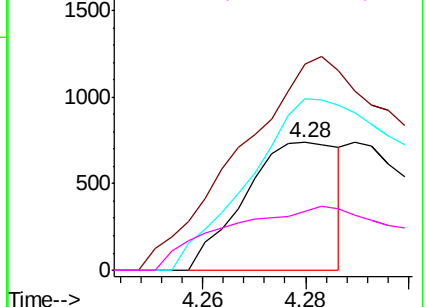


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VV0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VV0



#25

Chloroform

Concen: 2.676 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VV019235.D

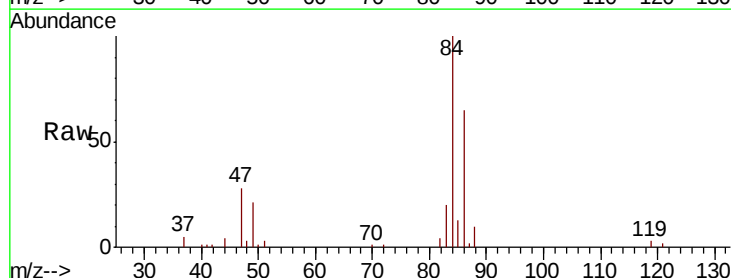
Acq: 03 Nov 2020 14:48

Tgt Ion: 83 Resp: 8045

Ion Ratio Lower Upper

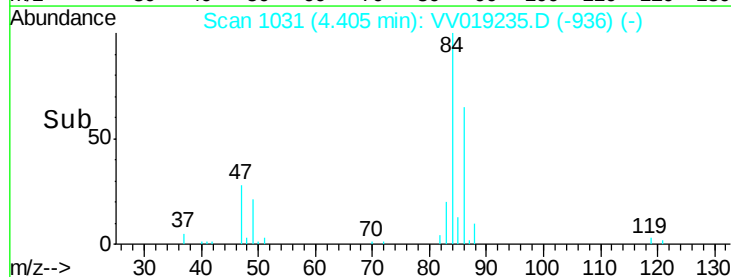
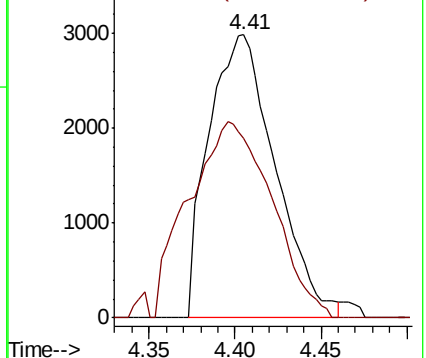
83 100

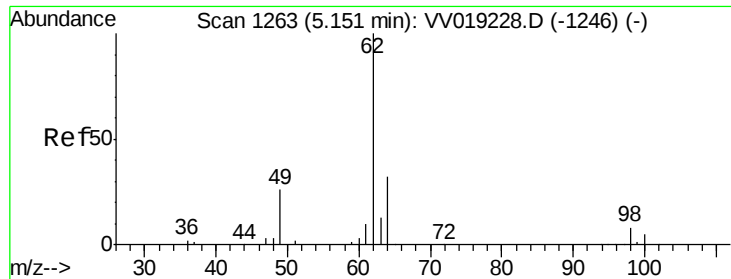
85 63.4 45.4 84.4



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

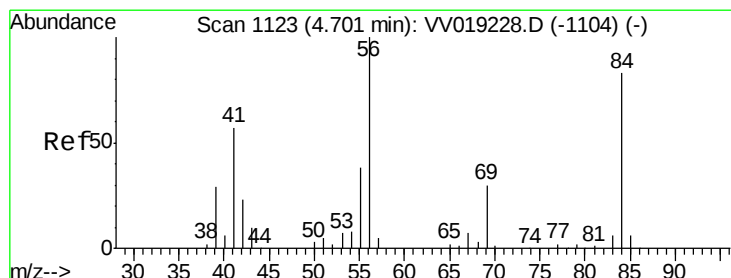
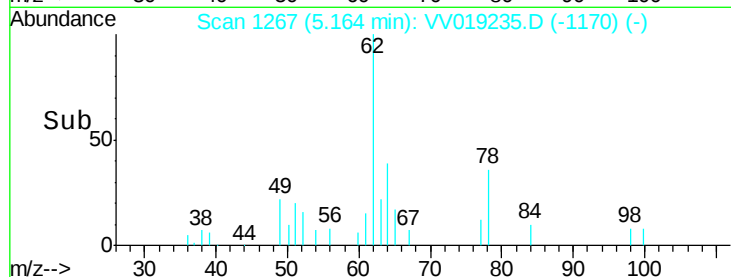
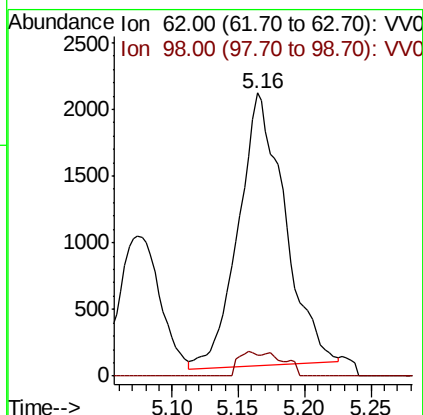
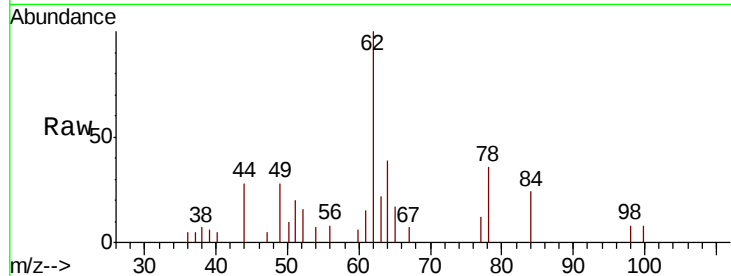




#27
 1,2-Dichloroethane
 Concen: 1.953 ug/L
 RT: 5.16 min Scan# 1267
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

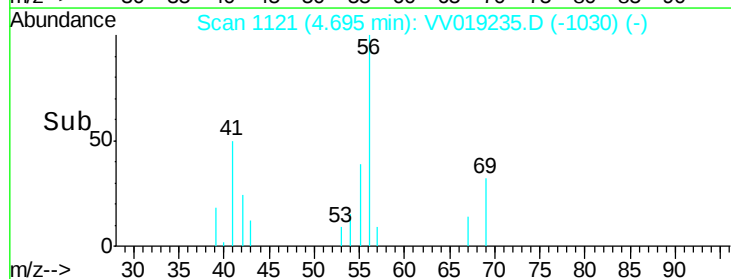
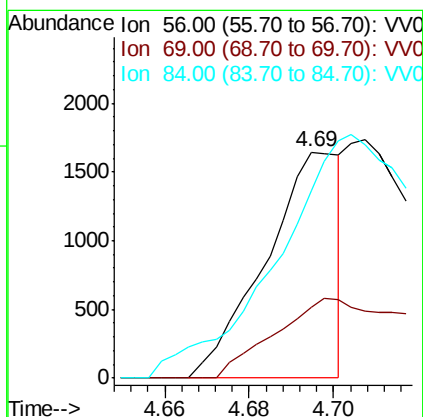
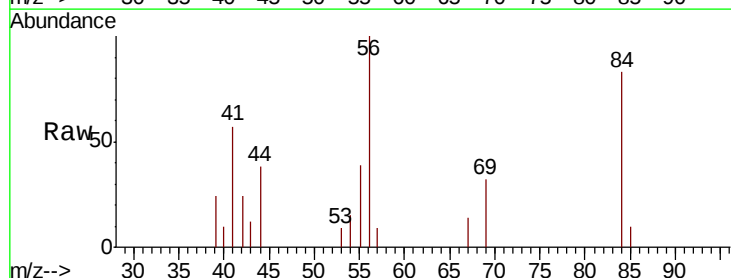
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

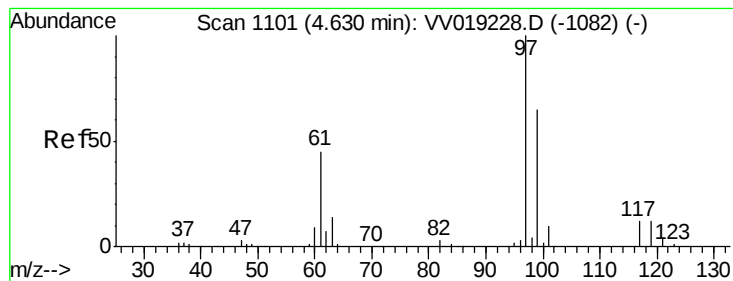
Tot Ion: 62 Resp: 4990
 Ion Ratio Lower Upper
 62 100
 98 7.6 6.8 10.2



#29
 Cyclohexane
 Concen: 1.001 ug/L
 RT: 4.69 min Scan# 1121
 Delta R.T. -0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Tgt Ion: 56 Resp: 2021
 Ion Ratio Lower Upper
 56 100
 69 71.4 24.6 36.8#
 84 216.9 70.5 105.7#





#30

1,1,1-Trichloroethane

Concen: 2.089 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

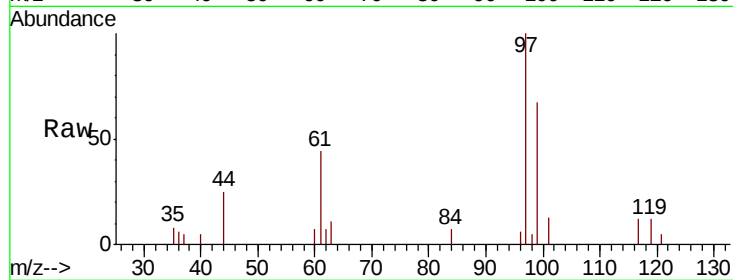
Tot Ion: 97 Resp: 5716

Ion Ratio Lower Upper

97 100

99 50.3 52.0 78.0#

61 44.8 35.3 52.9



Abundance Ion 97.00 (96.70 to 97.70): VV019228.D (-1082) (-)

Ion 99.00 (98.70 to 99.70): VV019228.D (-1082) (-)

Ion 61.05 (60.75 to 61.75): VV019228.D (-1082) (-)

4.64

2500

2000

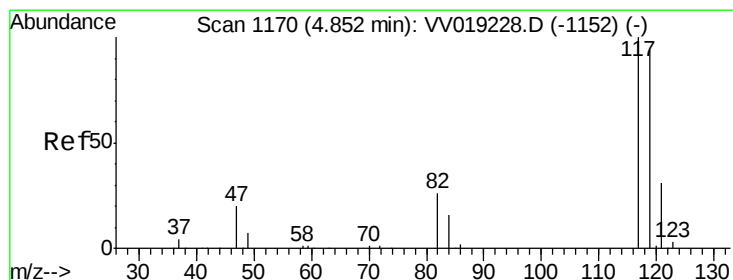
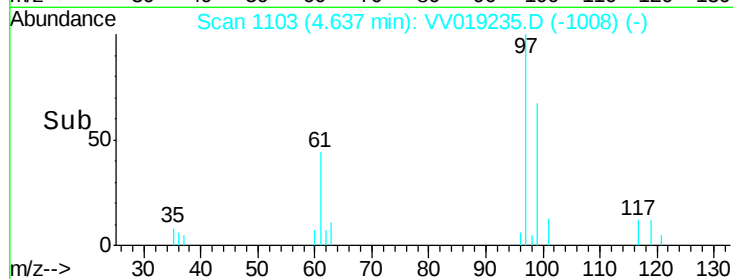
1500

1000

500

0

Time-->



#31

Carbon tetrachloride

Concen: 2.055 ug/L

RT: 4.86 min Scan# 1172

Delta R.T. 0.01 min

Lab File: VV019235.D

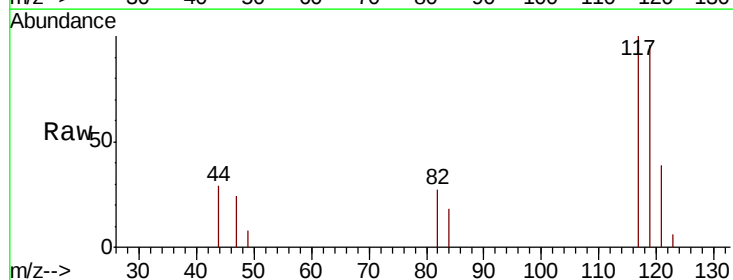
Acq: 03 Nov 2020 14:48

Tgt Ion: 117 Resp: 4855

Ion Ratio Lower Upper

117 100

119 100.4 77.8 116.6



Abundance Ion 117.00 (116.70 to 117.70): VV019228.D (-1152) (-)

Ion 119.00 (118.70 to 119.70): VV019228.D (-1152) (-)

4.86

2000

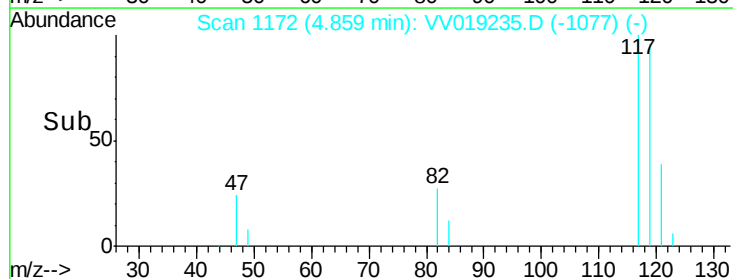
1500

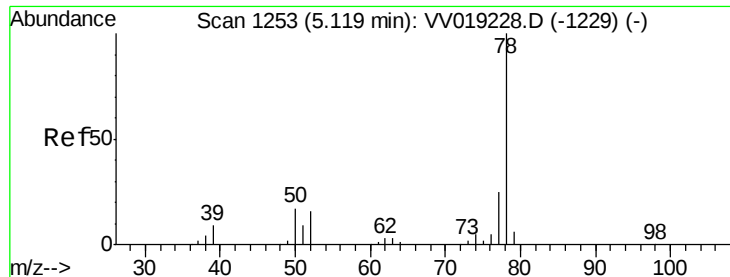
1000

500

0

Time-->





#33

Benzene

Concen: 2.245 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

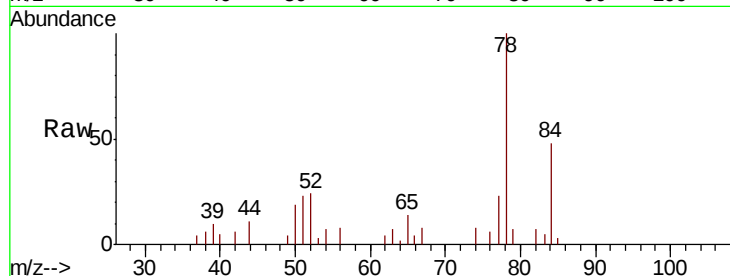
Instrument :

MSVOA_V

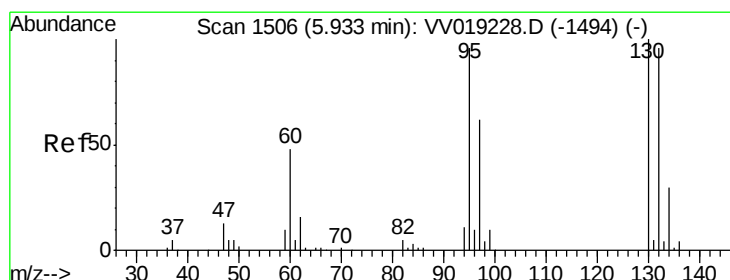
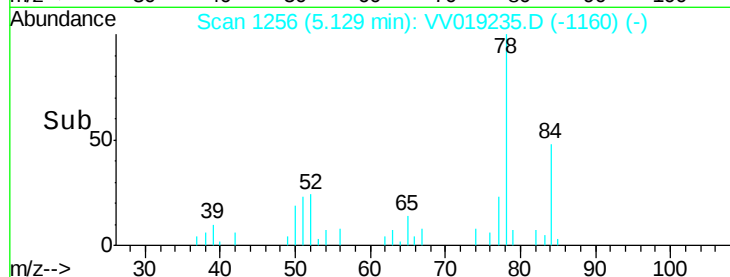
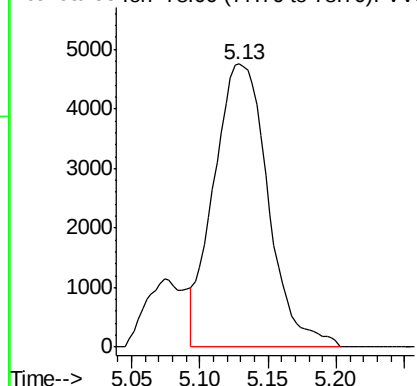
ClientSampleId :

MDL-ME-SOIL-04

Tgt Ion: 78 Resp: 13159



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 2.151 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Tgt Ion: 95 Resp: 3427

Ion	Ratio	Lower	Upper
95	100		
97	75.9	45.4	84.4
132	98.8	68.5	127.3
130	98.0	72.0	133.6

95 100

97 75.9 45.4 84.4

132 98.8 68.5 127.3

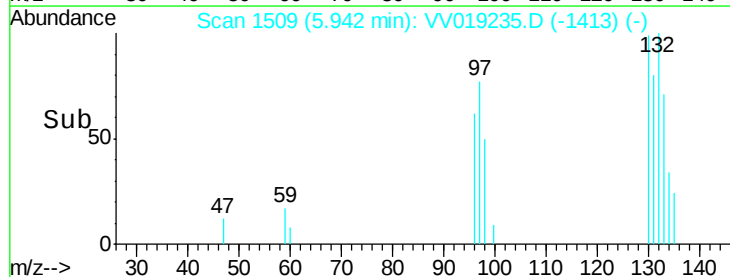
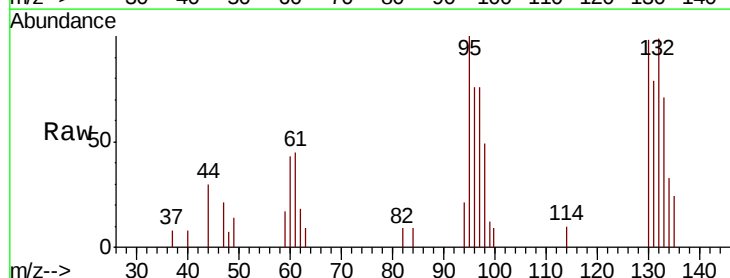
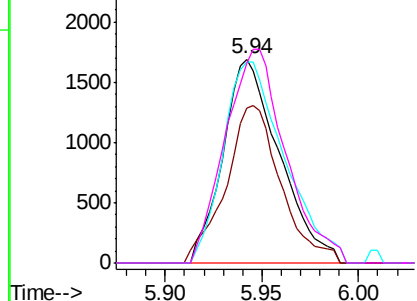
130 98.0 72.0 133.6

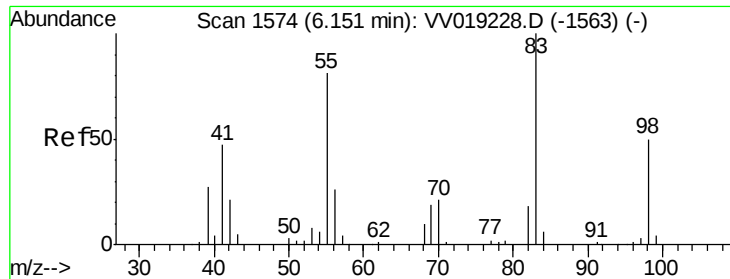
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

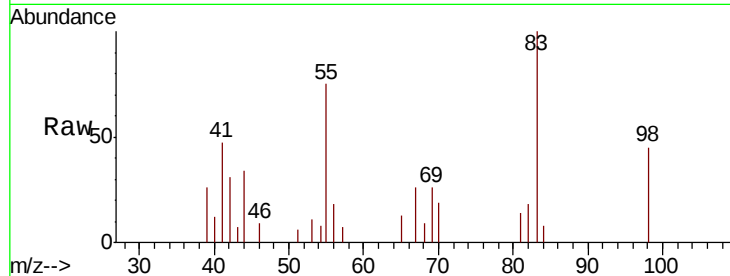




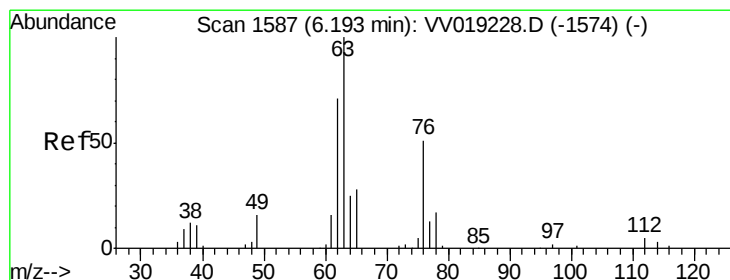
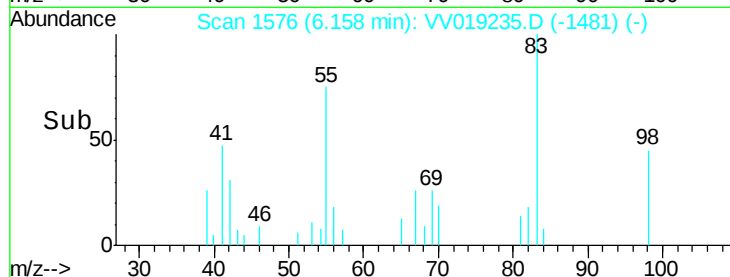
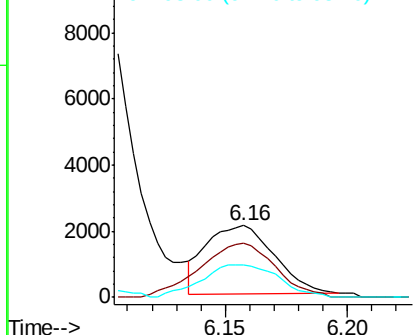
#35
Methylcyclohexane
Concen: 2.094 ug/L
RT: 6.16 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion: 83 Resp: 4037
Ion Ratio Lower Upper
83 100
55 87.0 62.8 94.2
98 53.9 38.6 58.0

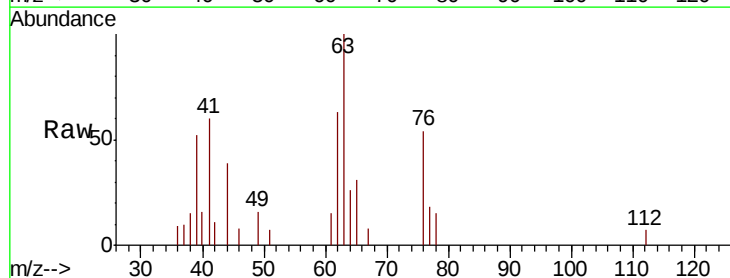


Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

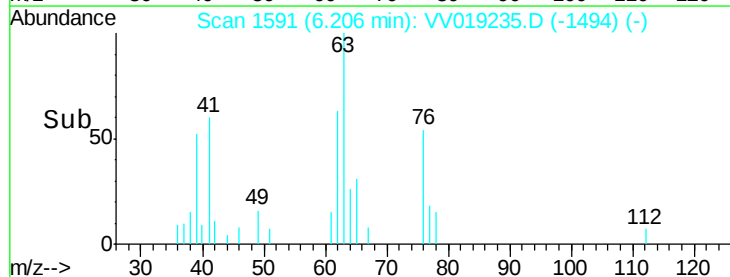
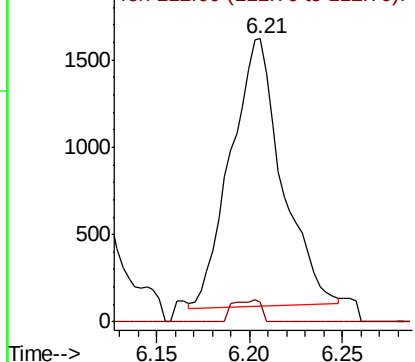


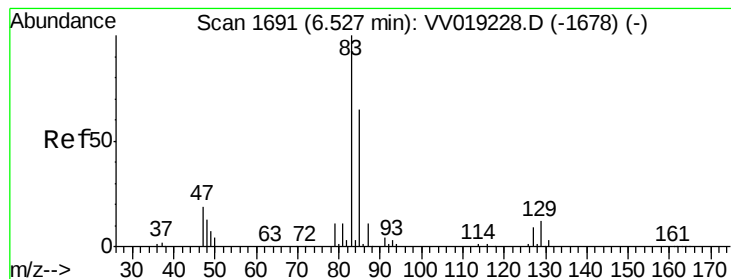
#37
1,2-Dichloropropane
Concen: 1.883 ug/L
RT: 6.21 min Scan# 1591
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Tgt Ion: 63 Resp: 2946
Ion Ratio Lower Upper
63 100
112 2.9 4.2 6.2#



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 112.00 (111.70 to 112.70): V





#38

Bromodichloromethane

Concen: 2.101 ug/L

RT: 6.54 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

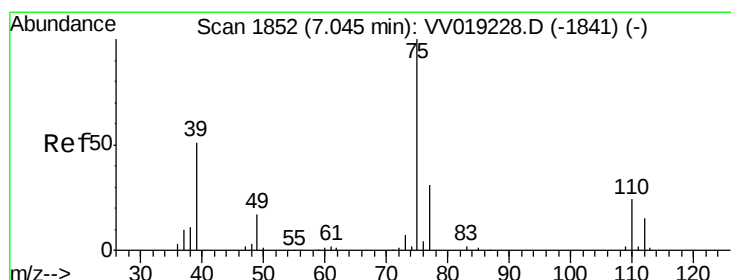
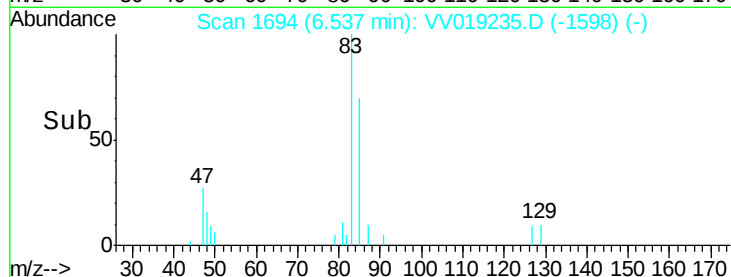
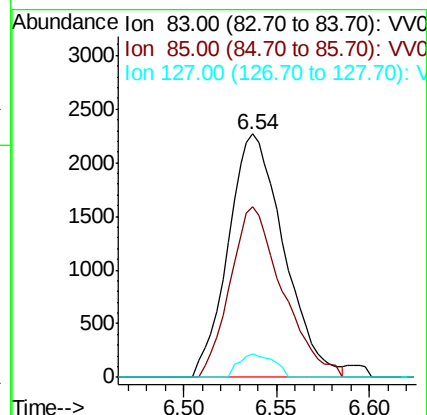
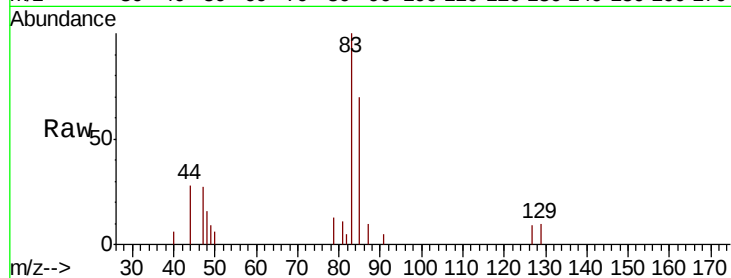
Tot Ion: 83 Resp: 4730

Ion Ratio Lower Upper

83 100

85 70.1 44.0 81.8

127 9.4 7.3 10.9



#39

cis-1,3-Dichloropropene

Concen: 1.865 ug/L

RT: 7.05 min Scan# 1854

Delta R.T. 0.01 min

Lab File: VV019235.D

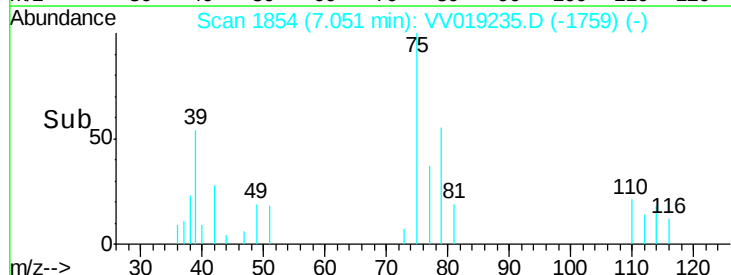
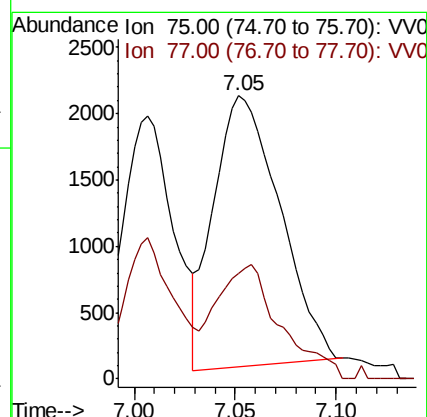
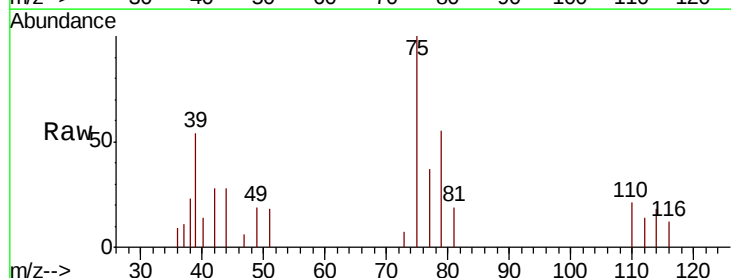
Acq: 03 Nov 2020 14:48

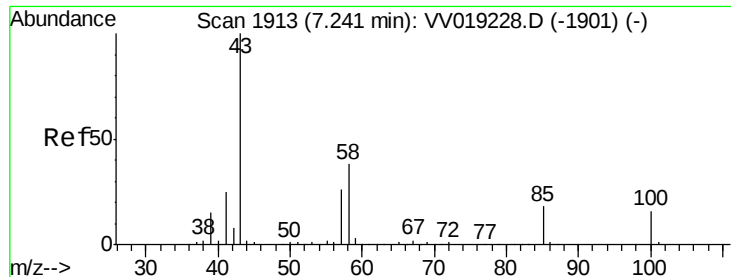
Tgt Ion: 75 Resp: 4668

Ion Ratio Lower Upper

75 100

77 37.3 22.2 41.2

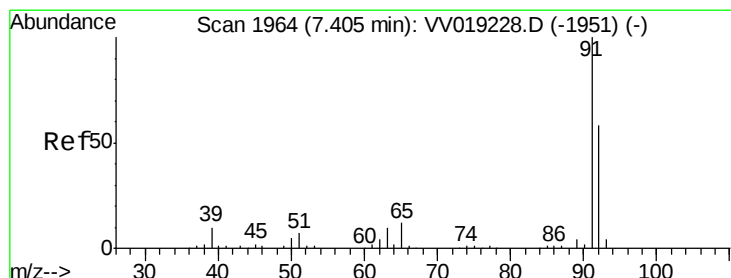
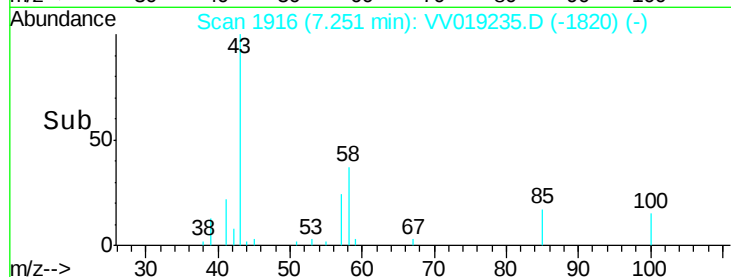
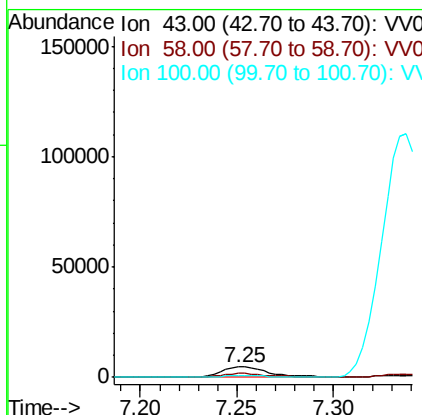
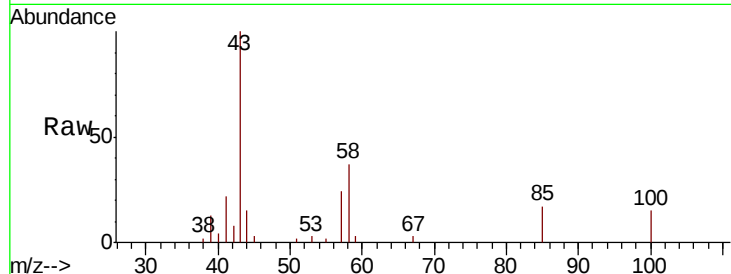




#40
4-Methyl-2-pentanone
Concen: 3.995 ug/L
RT: 7.25 min Scan# 1916
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

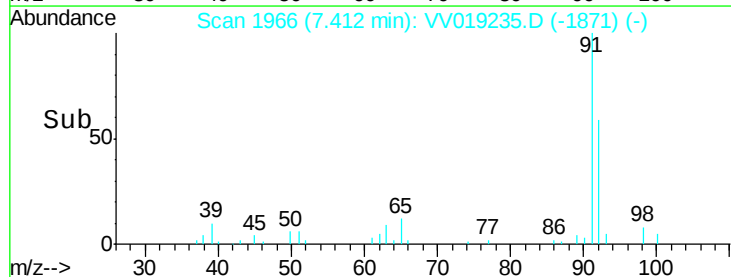
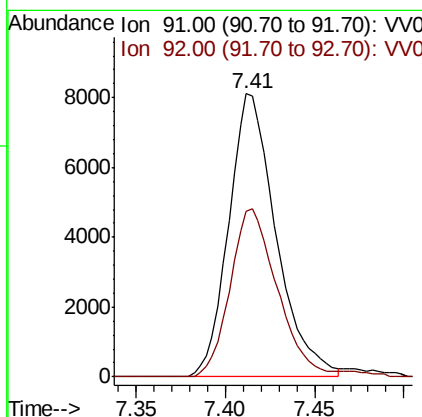
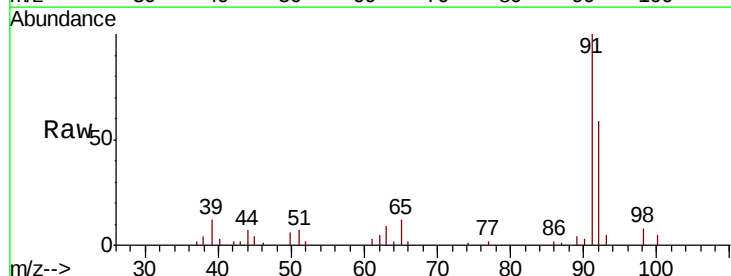
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

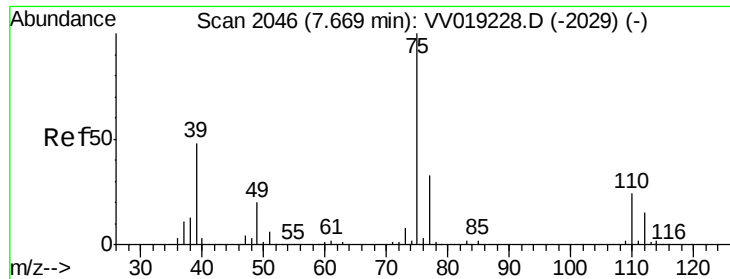
Tot Ion: 43 Resp: 8397
Ion Ratio Lower Upper
43 100
58 37.1 30.5 45.7
100 15.1 12.7 19.1



#42
Toluene
Concen: 2.372 ug/L
RT: 7.41 min Scan# 1966
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Tgt Ion: 91 Resp: 15030
Ion Ratio Lower Upper
91 100
92 58.5 40.6 75.4





#44

trans-1,3-Dichloropropene

Concen: 2.094 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

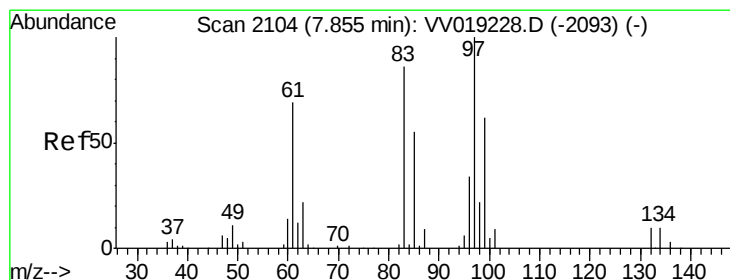
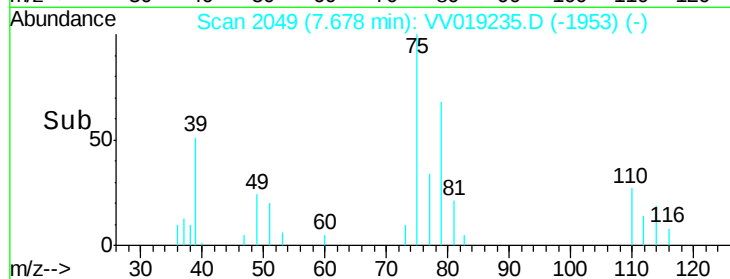
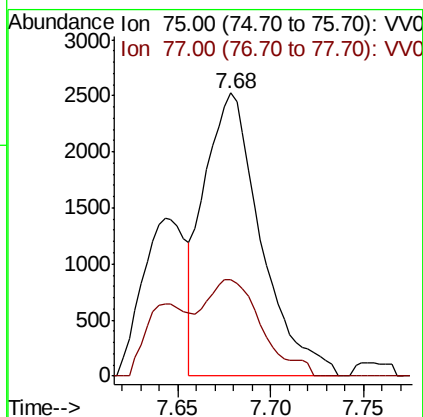
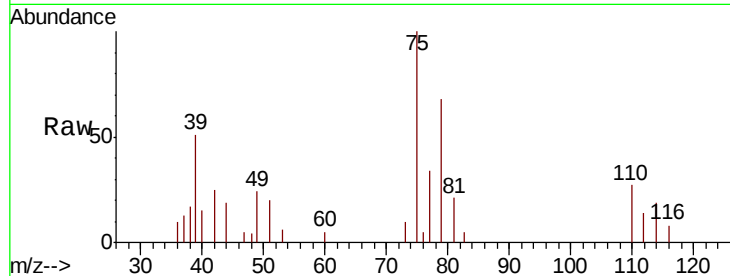
MDL-ME-SOIL-04

Tot Ion: 75 Resp: 5371

Ion Ratio Lower Upper

75 100

77 33.9 21.6 40.2



#45

1,1,2-Trichloroethane

Concen: 2.104 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Tgt Ion: 97 Resp: 3254

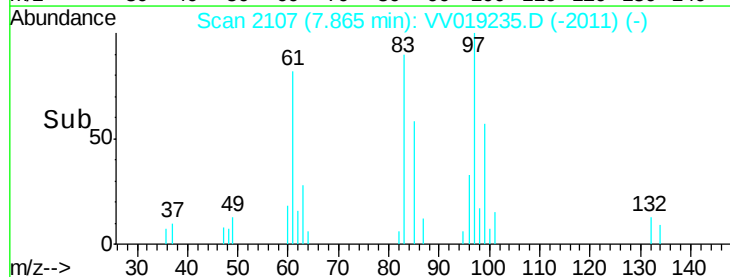
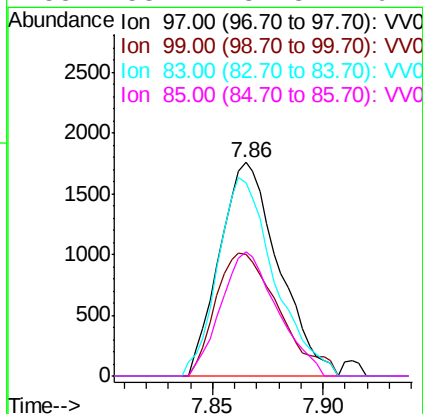
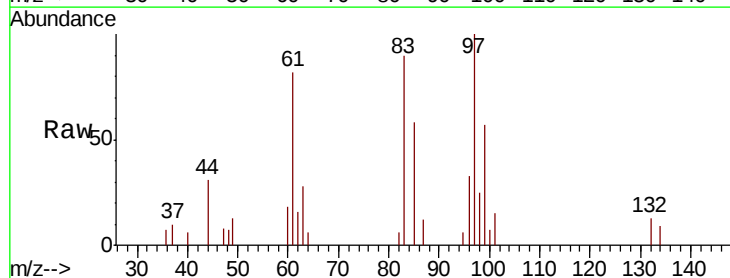
Ion Ratio Lower Upper

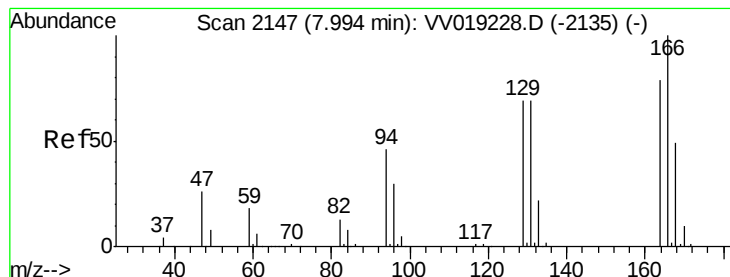
97 100

99 57.1 45.1 83.9

83 90.4 57.6 107.0

85 58.2 37.8 70.2





#46

Tetrachloroethene

Concen: 2.073 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:164 Resp: 2694

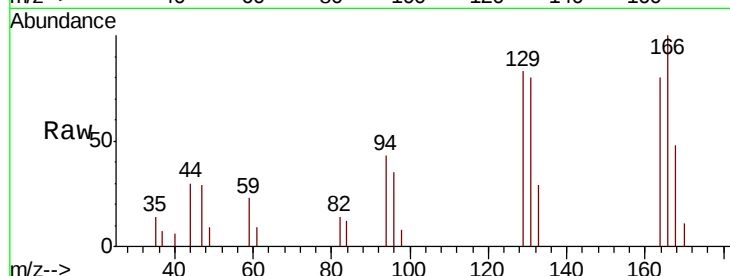
Ion Ratio Lower Upper

164 100

129 104.6 62.6 116.3

131 99.7 59.0 109.6

166 125.4 88.0 163.4



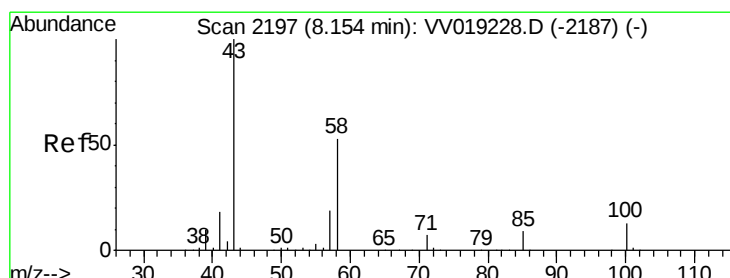
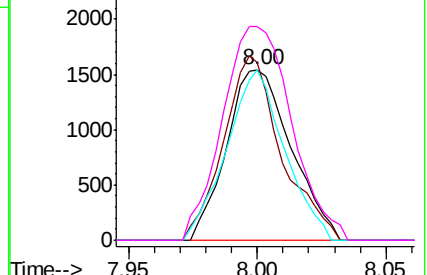
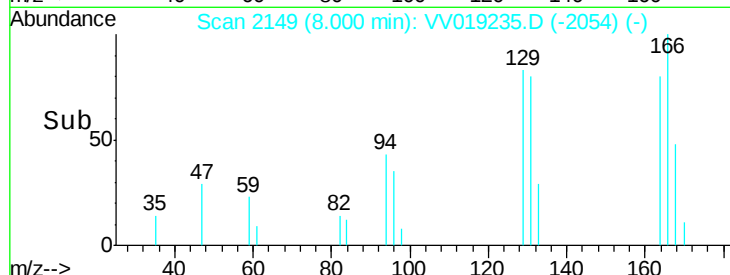
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

Time--> 7.95 8.00 8.05



#48

2-Hexanone

Concen: 5.331 ug/L

RT: 8.16 min Scan# 2200

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Tgt Ion: 43 Resp: 8470

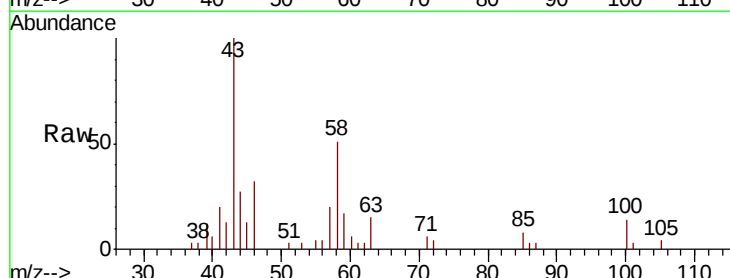
Ion Ratio Lower Upper

43 100

58 45.8 42.6 63.8

57 22.1 15.8 23.8

100 10.9 10.4 15.6



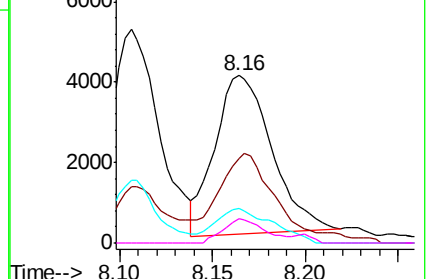
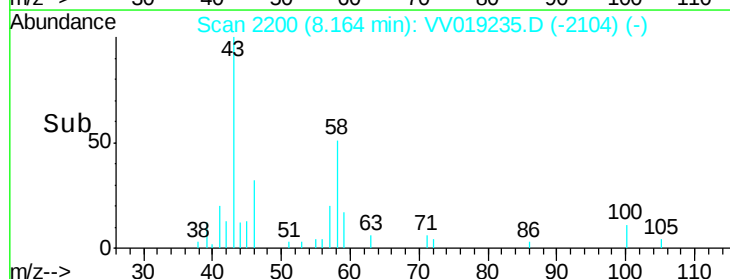
Abundance Ion 43.00 (42.70 to 43.70): VV0

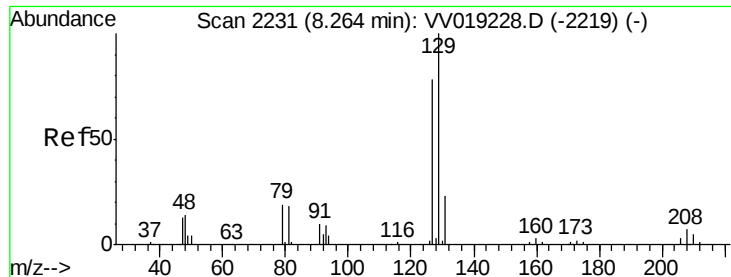
Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0

Time--> 8.10 8.15 8.20





#49

Dibromochloromethane

Concen: 1.952 ug/L

RT: 8.27 min Scan# 2233

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

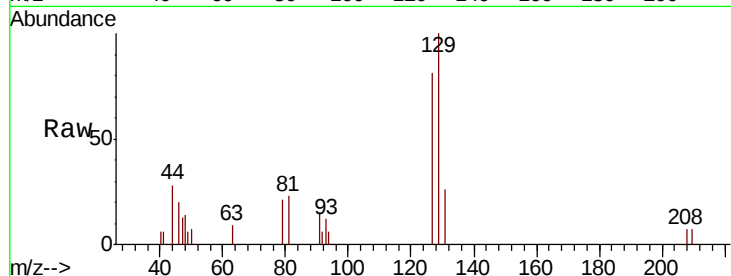
MDL-ME-SOIL-04

Tot Ion:129 Resp: 3600

Ion Ratio Lower Upper

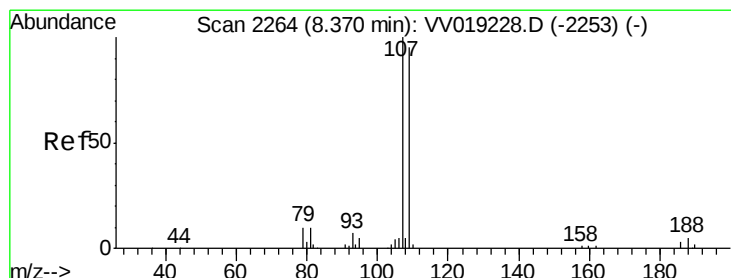
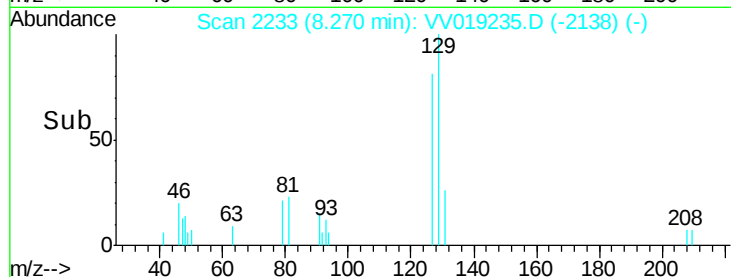
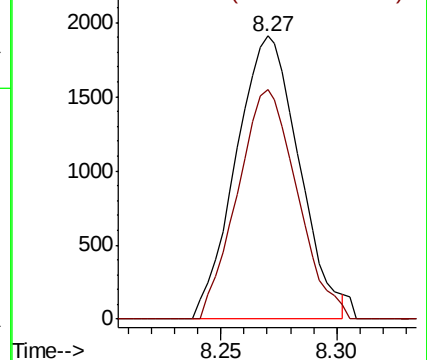
129 100

127 81.0 54.4 101.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 2.149 ug/L

RT: 8.38 min Scan# 2267

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

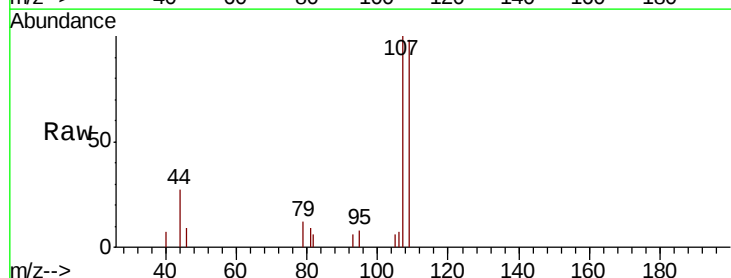
Tgt Ion:107 Resp: 3444

Ion Ratio Lower Upper

107 100

109 97.9 64.8 120.4

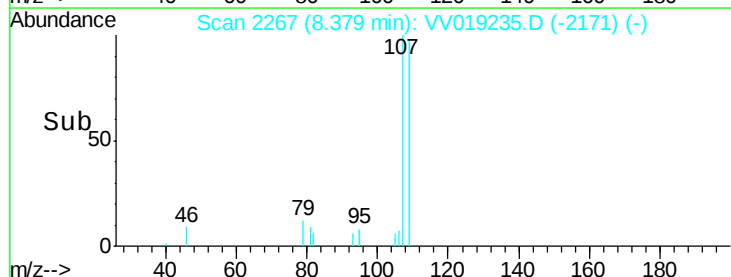
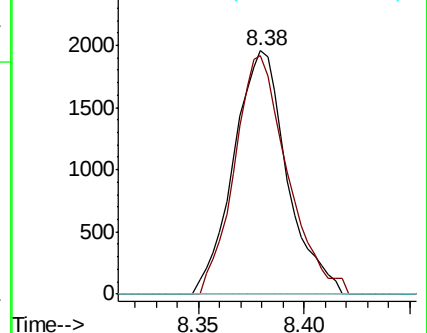
188 0.0 3.8 5.8#

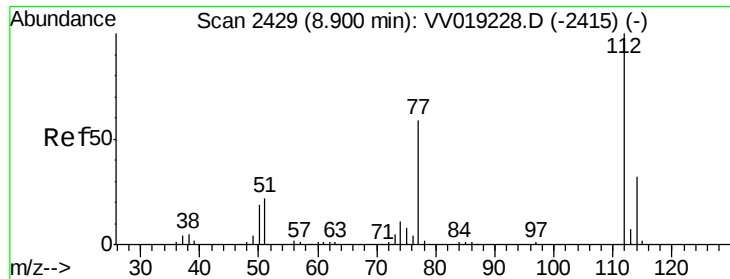


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

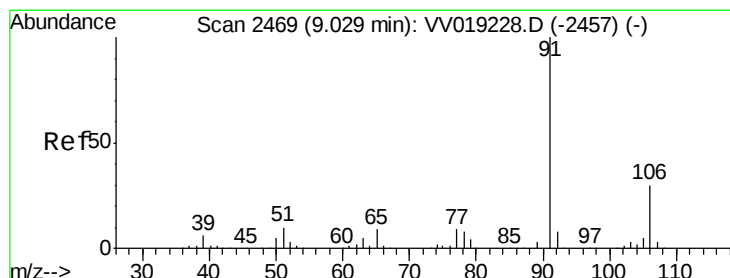
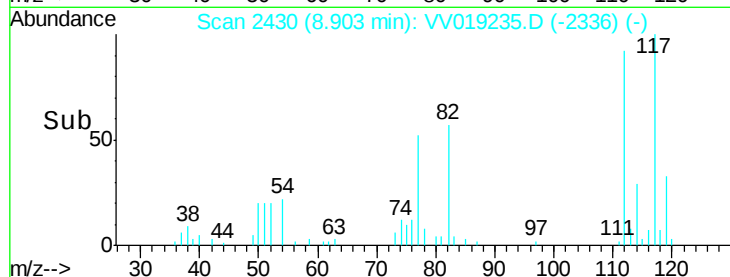
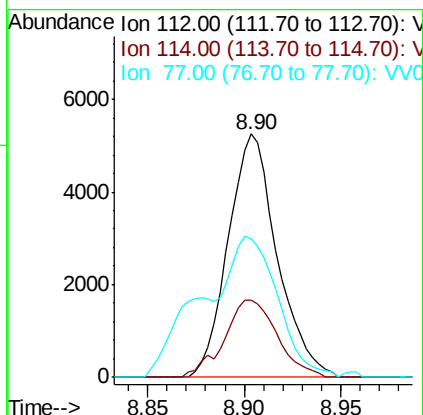
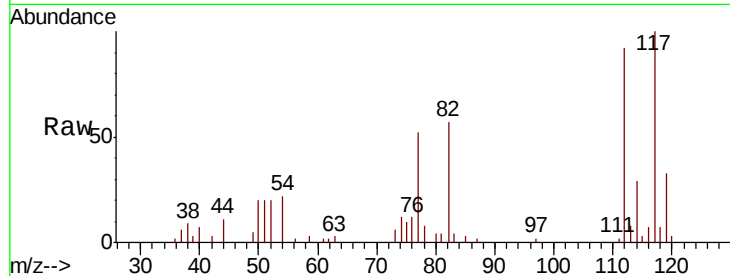




#51
Chlorobenzene
Concen: 2.183 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

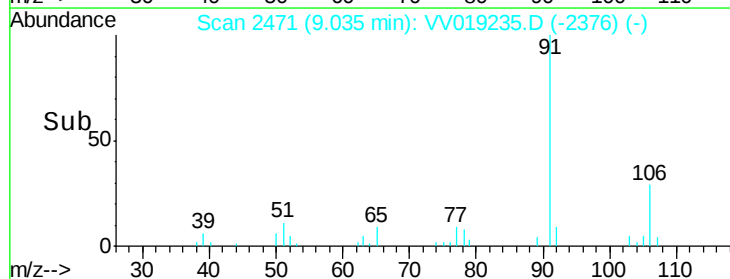
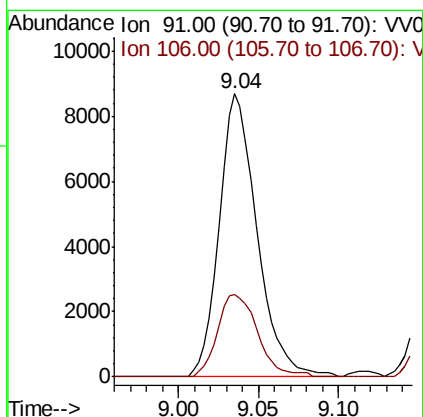
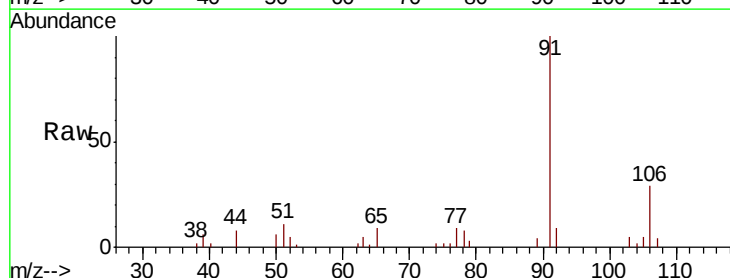
Instrument :
MSVOA_V
ClientSampleId :
MDL-ME-SOIL-04

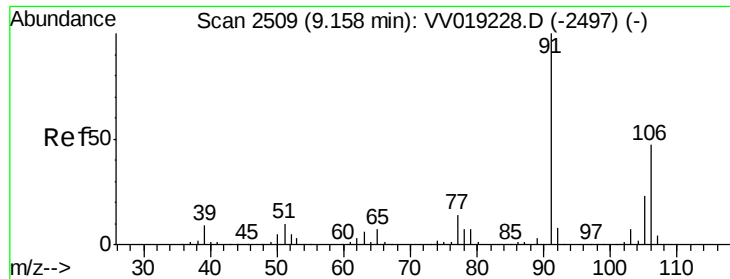
Tot Ion:112 Resp: 9253
Ion Ratio Lower Upper
112 100
114 31.9 22.7 42.1
77 57.0 47.3 70.9



#52
Ethylbenzene
Concen: 2.005 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.01 min
Lab File: VV019235.D
Acq: 03 Nov 2020 14:48

Tgt Ion: 91 Resp: 14013
Ion Ratio Lower Upper
91 100
106 29.0 21.6 40.0





#53

m,p-Xylene

Concen: 1.974 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

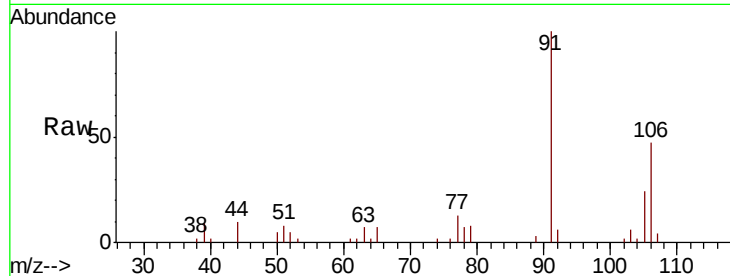
MDL-ME-SOIL-04

Tot Ion:106 Resp: 5165

Ion Ratio Lower Upper

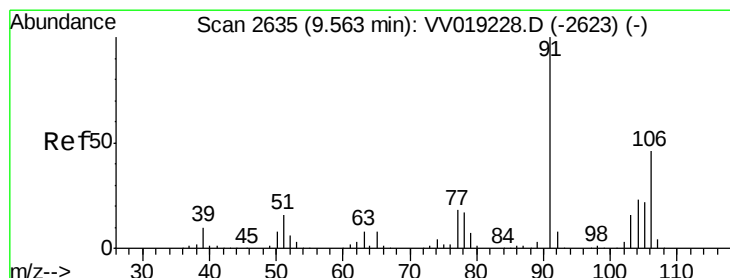
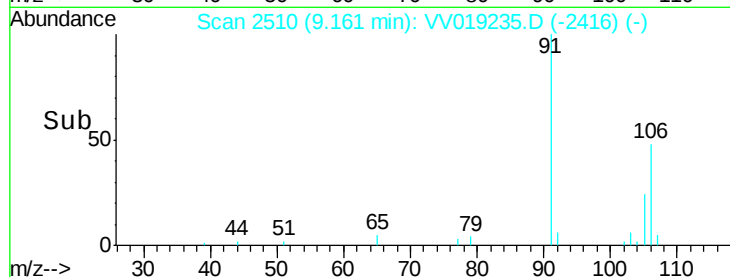
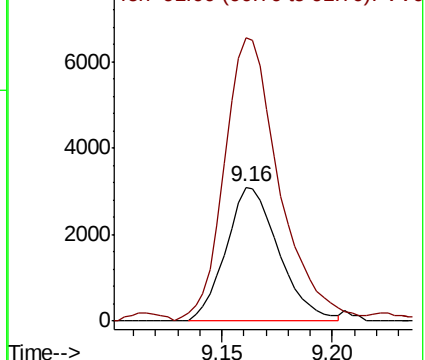
106 100

91 211.4 147.2 273.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-Xylene

Concen: 1.945 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV019235.D

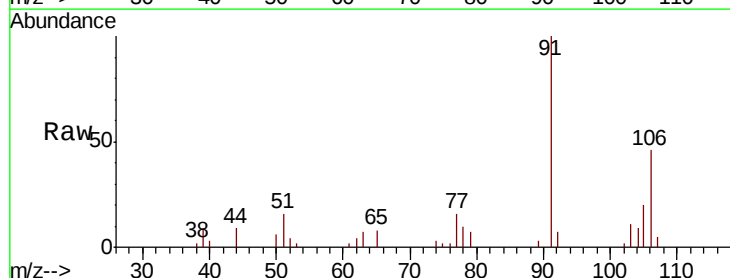
Acq: 03 Nov 2020 14:48

Tgt Ion:106 Resp: 5017

Ion Ratio Lower Upper

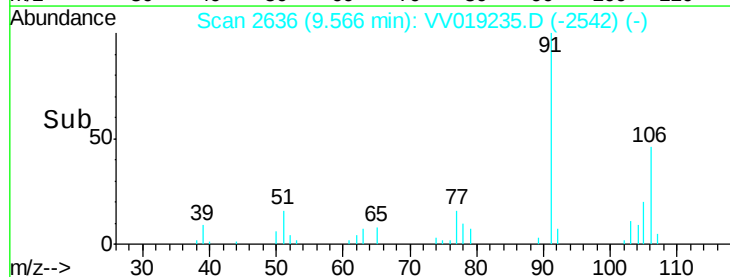
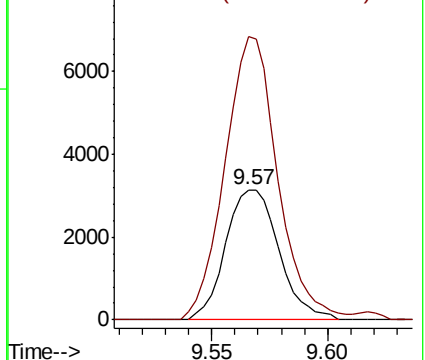
106 100

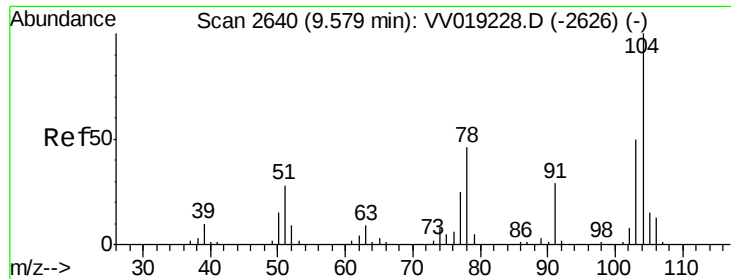
91 217.8 151.6 281.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

Stvrene

Concen: 1.875 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

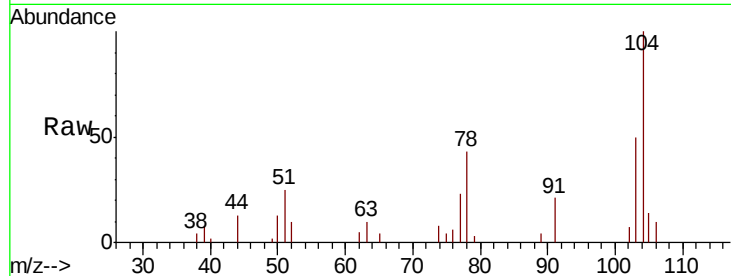
MDL-ME-SOIL-04

Tot Ion:104 Resp: 8612

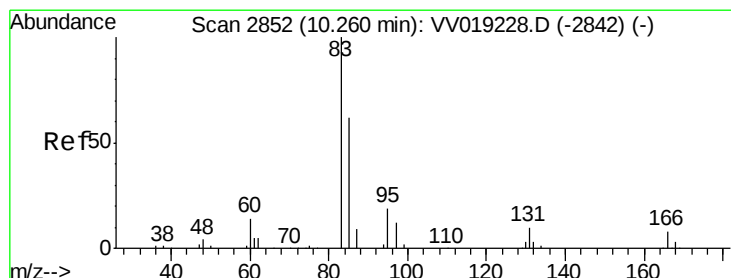
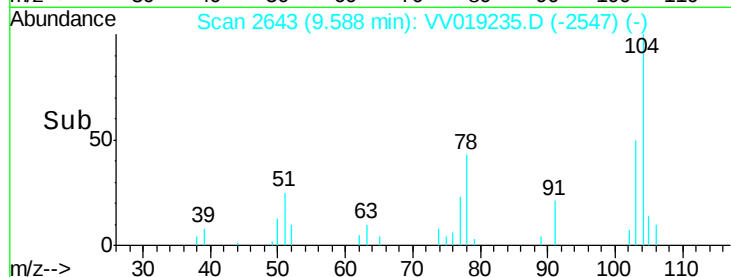
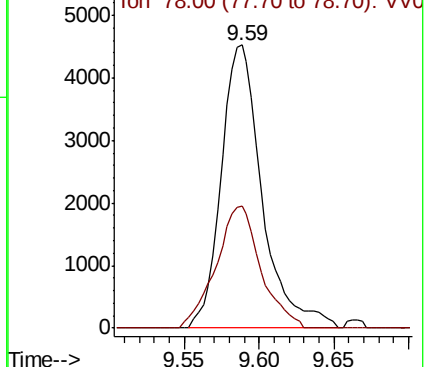
Ion Ratio Lower Upper

104 100

78 42.9 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): VV019228.D (-2626) (-)



#57

1,1,2,2-Tetrachloroethane

Concen: 2.306 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

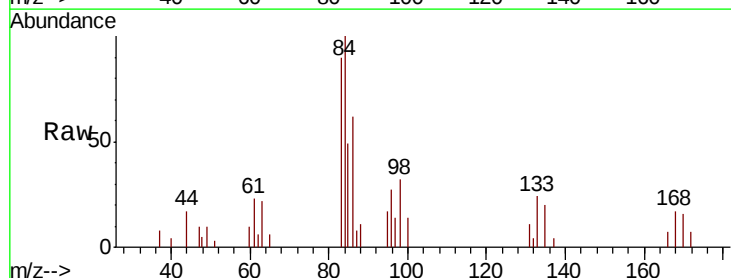
Tgt Ion: 83 Resp: 5394

Ion Ratio Lower Upper

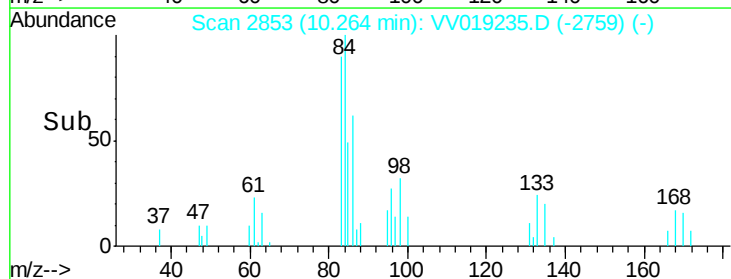
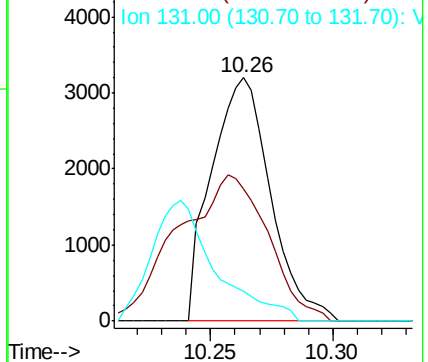
83 100

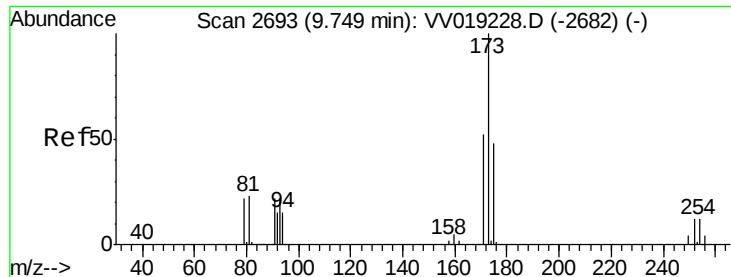
85 54.3 45.0 83.6

131 12.3 8.9 13.3



Abundance Ion 83.00 (82.70 to 83.70): VV019228.D (-2842) (-)





#59

Bromoform

Concen: 1.937 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

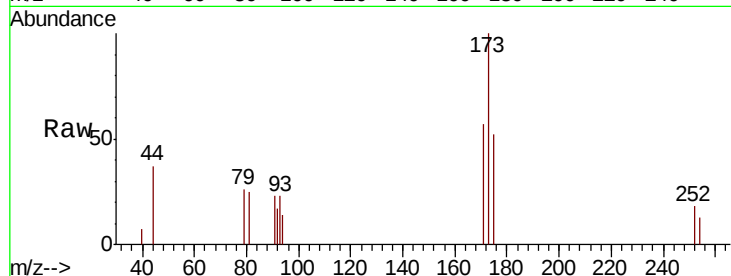
Tot Ion:173 Resp: 2632

Ion Ratio Lower Upper

173 100

175 47.1 38.4 57.6

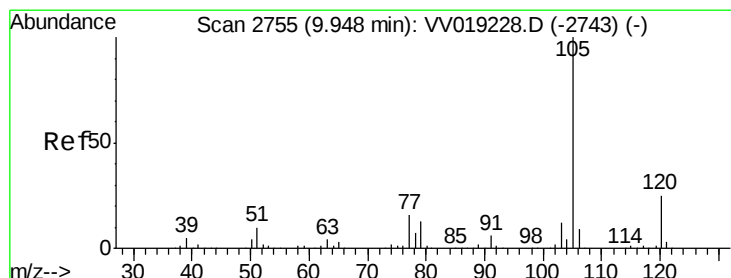
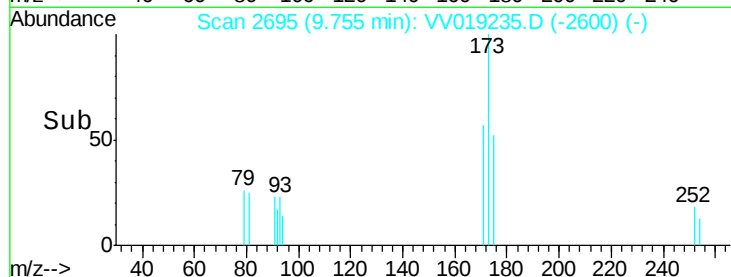
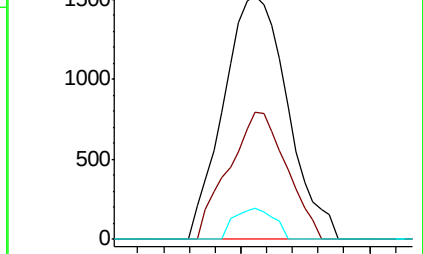
254 7.9 9.0 13.6#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#60

Isopropylbenzene

Concen: 1.950 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.01 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

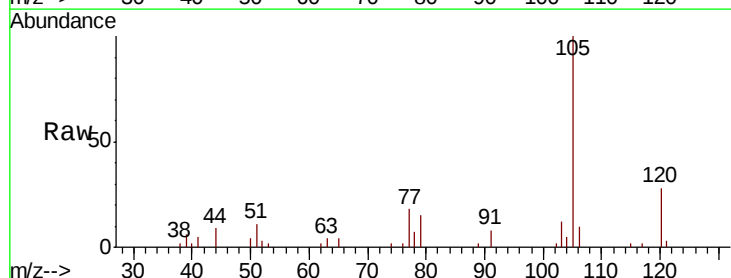
Tgt Ion:105 Resp: 12518

Ion Ratio Lower Upper

105 100

120 25.6 21.0 31.4

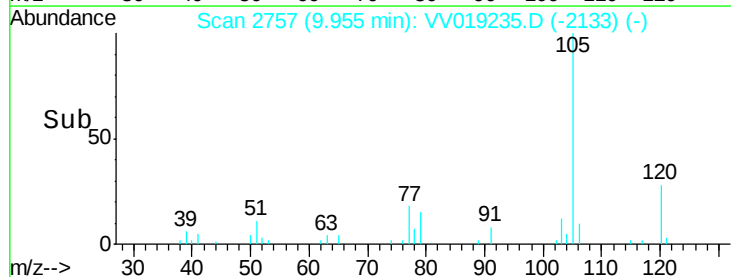
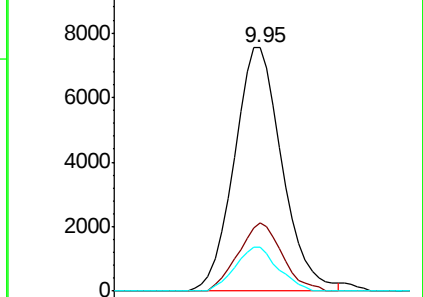
77 16.2 13.0 19.6

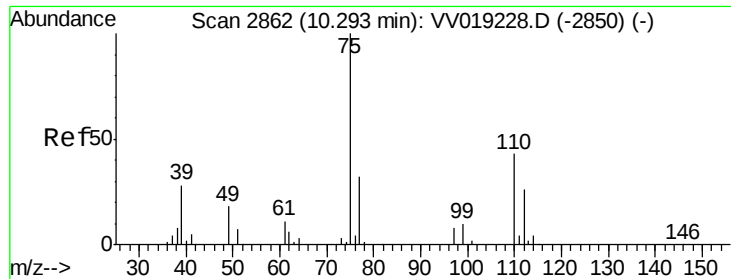


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0

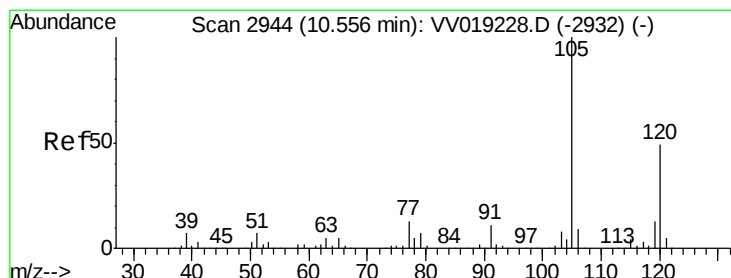
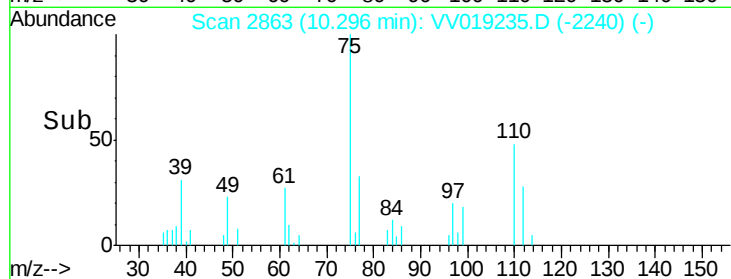
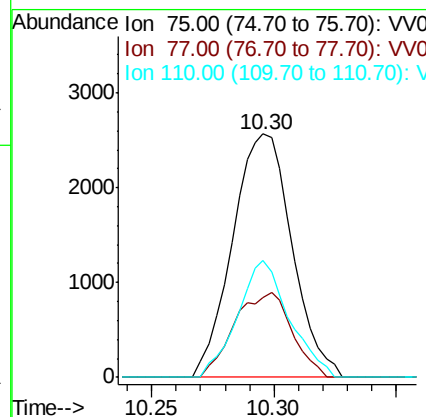
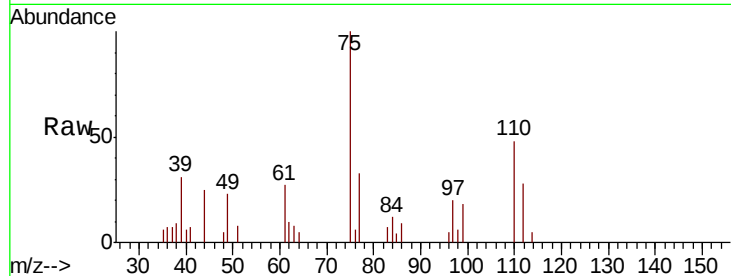




#61
 1,2,3-Trichloropropane
 Concen: 2.278 ug/L
 RT: 10.30 min Scan# 2863
 Delta R.T. 0.00 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

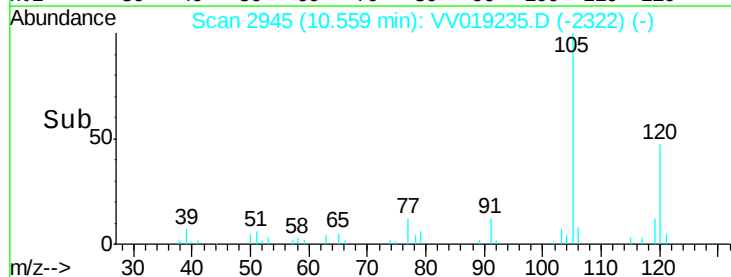
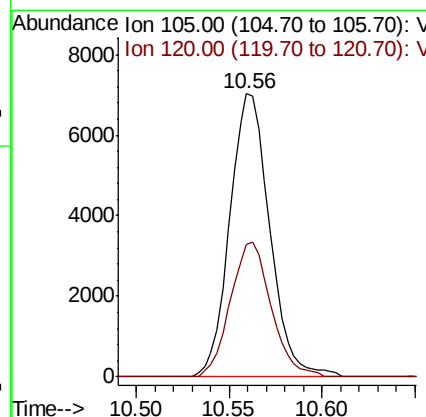
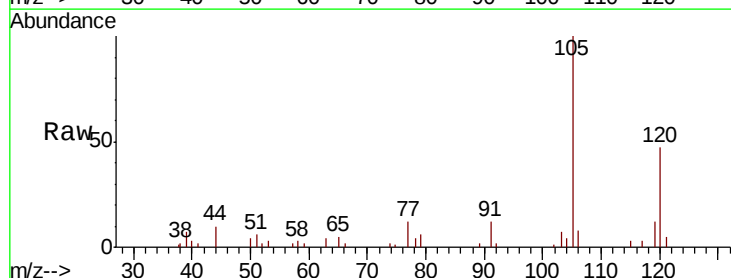
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

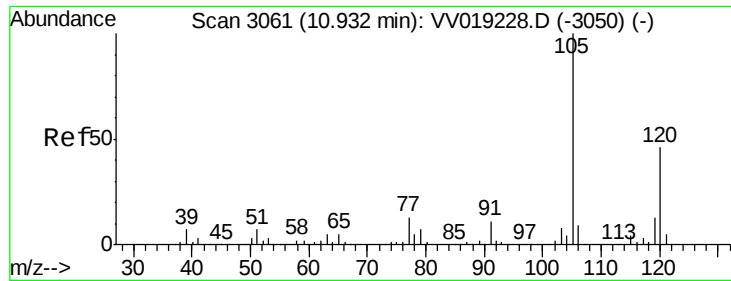
Tot Ion: 75 Resp: 4334
 Ion Ratio Lower Upper
 75 100
 77 33.7 24.8 37.2
 110 41.7 33.4 50.2



#62
 1,3,5-Trimethylbenzene
 Concen: 1.966 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Tgt Ion: 105 Resp: 10512
 Ion Ratio Lower Upper
 105 100
 120 48.5 38.3 57.5

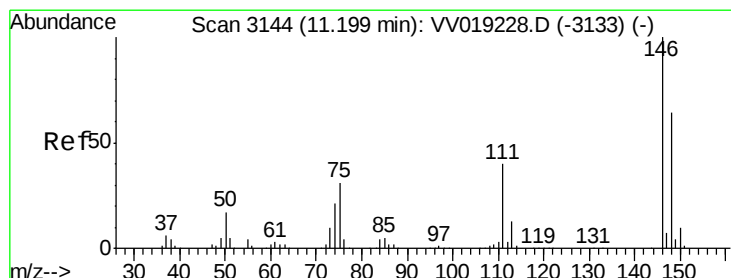
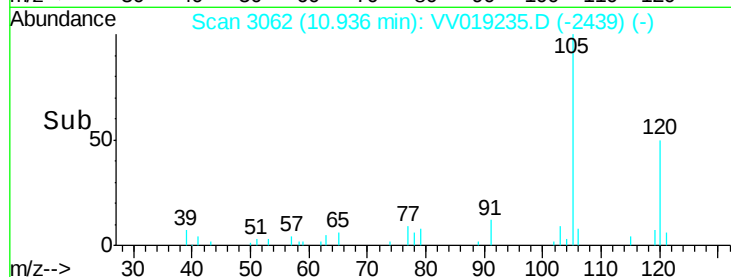
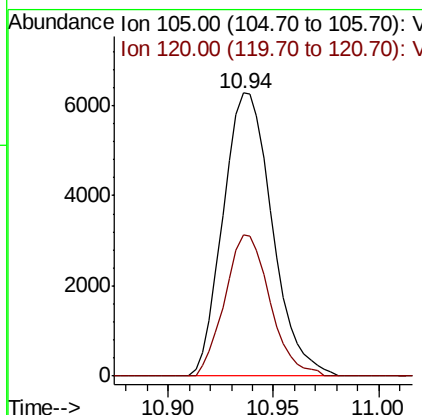
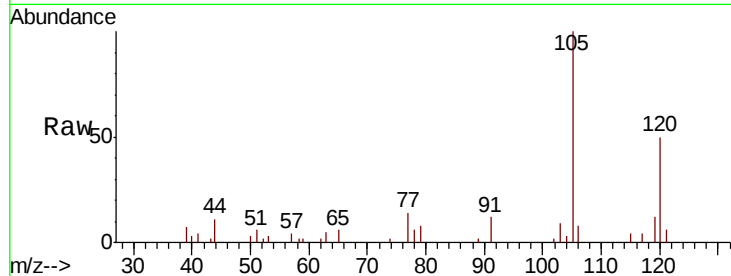




#63
 1,2,4-Trimethylbenzene
 Concen: 1.944 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. 0.00 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

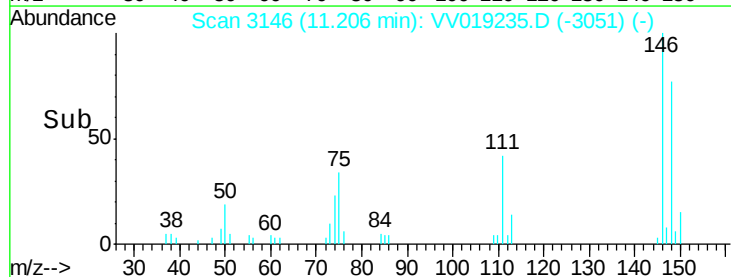
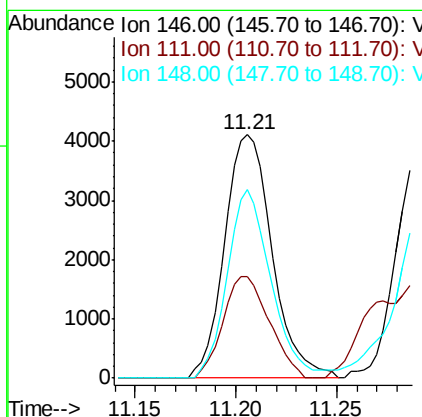
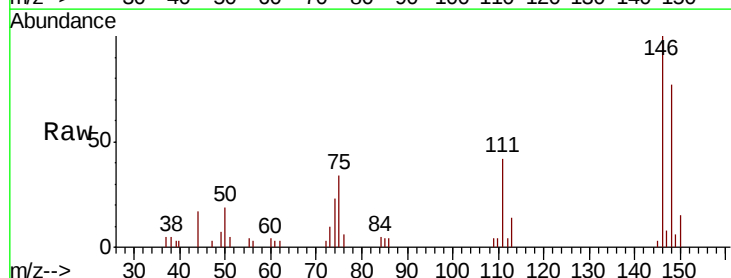
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

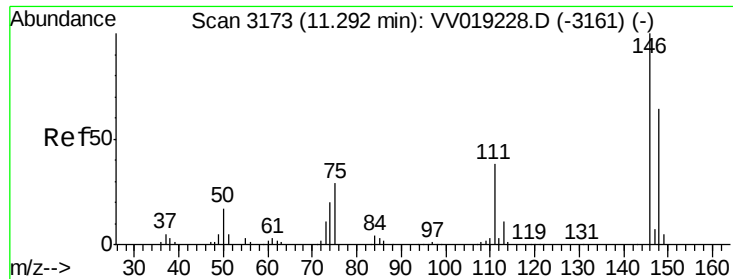
Tot Ion:105 Resp: 10171
 Ion Ratio Lower Upper
 105 100
 120 45.7 35.7 53.5



#64
 1,3-Dichlorobenzene
 Concen: 2.020 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Tgt Ion:146 Resp: 6781
 Ion Ratio Lower Upper
 146 100
 111 41.5 27.3 50.7
 148 77.3 45.2 84.0





#65

1,4-Dichlorobenzene

Concen: 2.459 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

Instrument :

MSVOA_V

ClientSampleId :

MDL-ME-SOIL-04

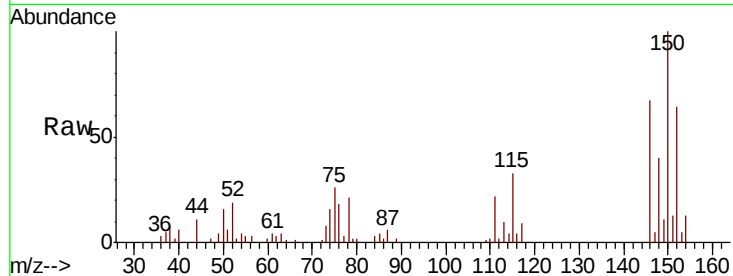
Tot Ion:146 Resp: 8542

Ion Ratio Lower Upper

146 100

111 33.4 25.9 48.1

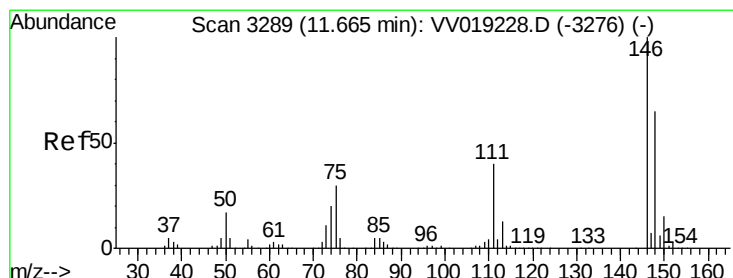
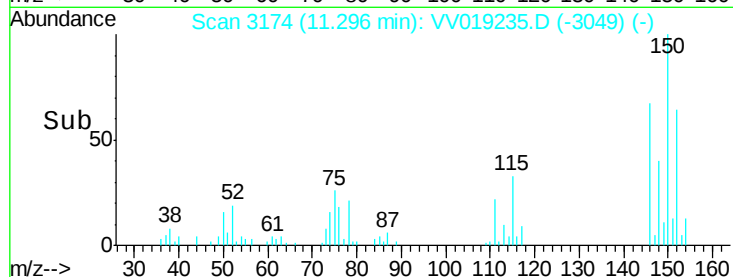
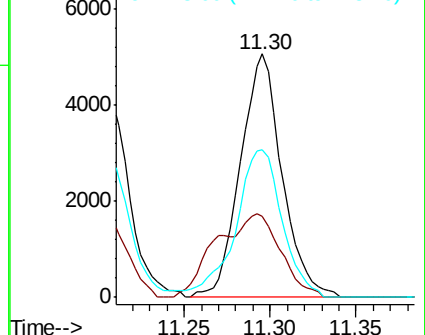
148 60.8 44.9 83.5



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: 2.452 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV019235.D

Acq: 03 Nov 2020 14:48

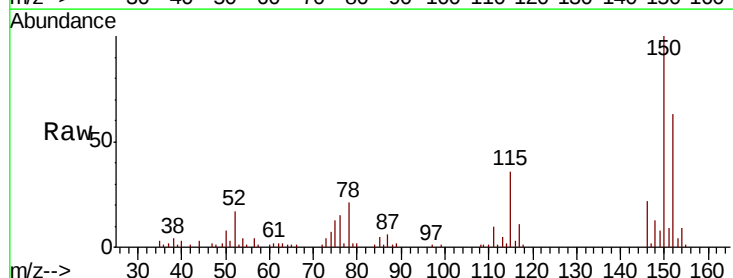
Tgt Ion:146 Resp: 8420

Ion Ratio Lower Upper

146 100

111 47.3 32.6 48.8

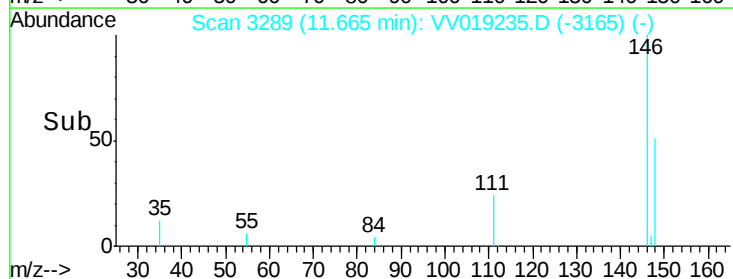
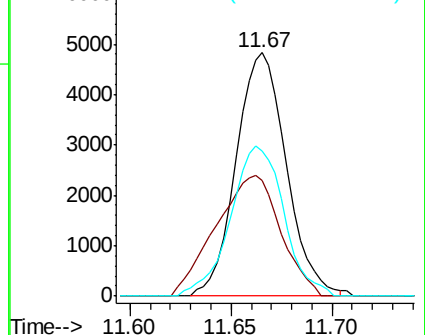
148 59.8 50.1 75.1

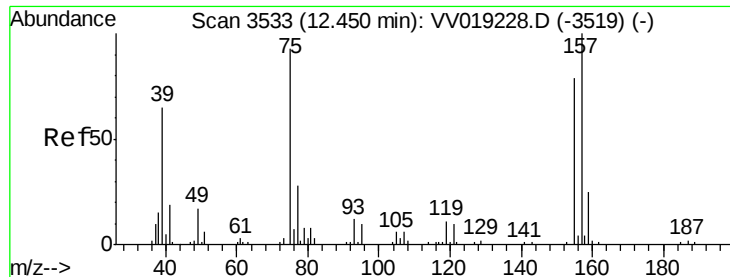


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

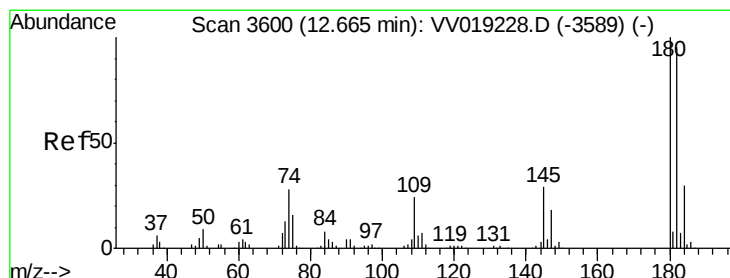
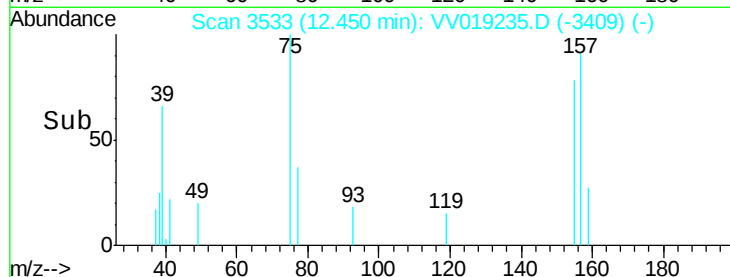
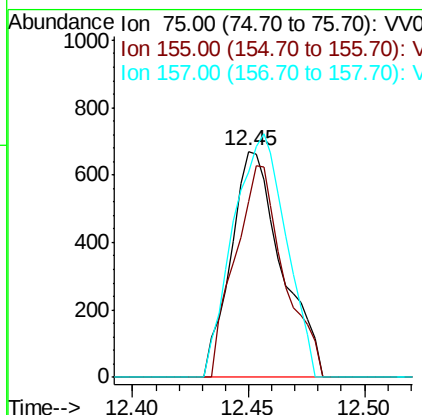
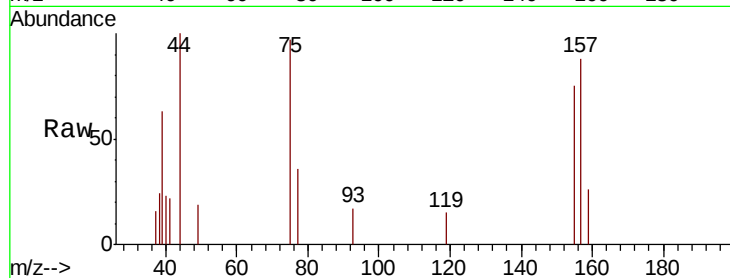




#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.840 ug/L
 RT: 12.45 min Scan# 3533
 Delta R.T. -0.00 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

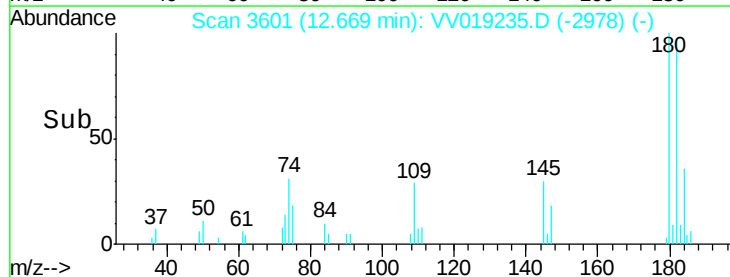
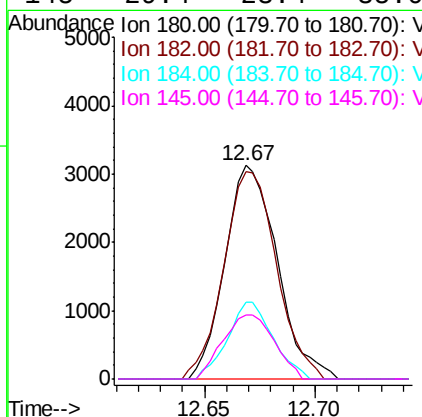
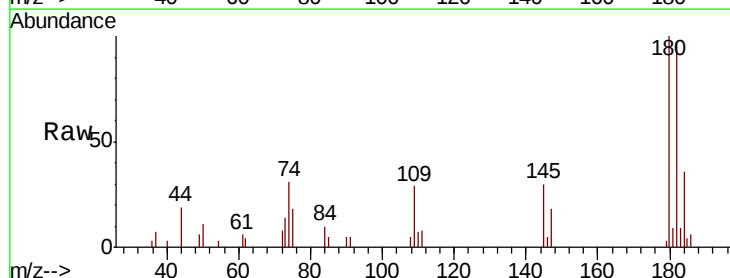
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

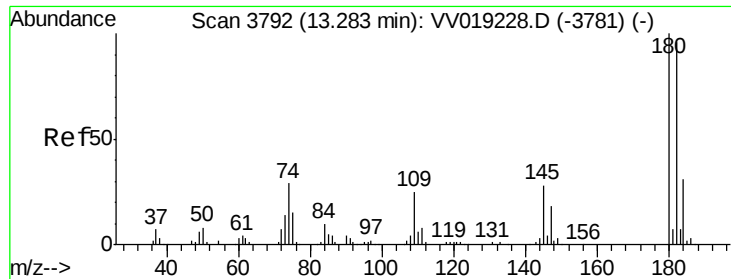
Tot Ion: 75 Resp: 1021
 Ion Ratio Lower Upper
 75 100
 155 77.6 65.8 98.6
 157 91.0 86.3 129.5



#69
 1,3,5-Trichlorobenzene
 Concen: 2.133 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Tgt Ion: 180 Resp: 5140
 Ion Ratio Lower Upper
 180 100
 182 97.9 77.7 116.5
 184 31.1 24.9 37.3
 145 29.4 23.4 35.0

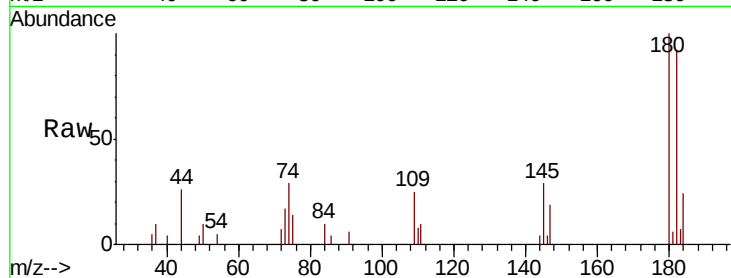




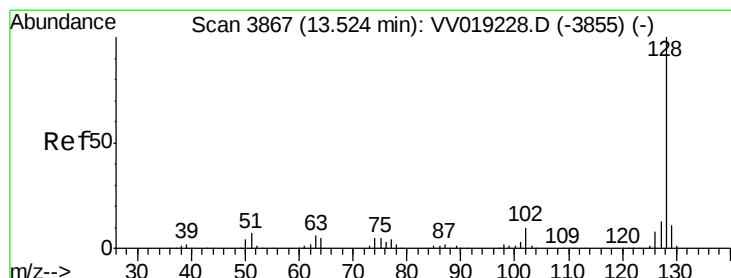
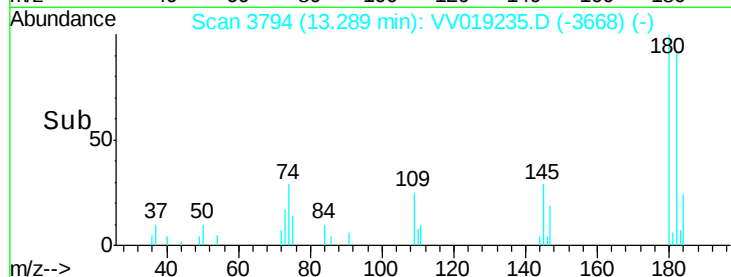
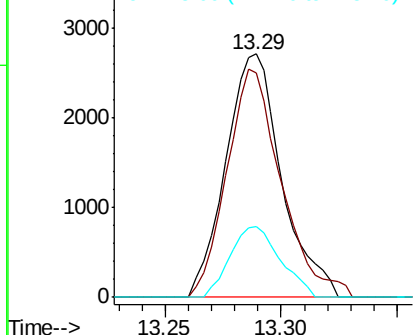
#70
 1,2,4-trichlorobenzene
 Concen: 2.002 ug/L
 RT: 13.29 min Scan# 3794
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion:180 Resp: 4540
 Ion Ratio Lower Upper
 180 100
 182 91.4 76.6 114.8
 145 26.3 23.2 34.8

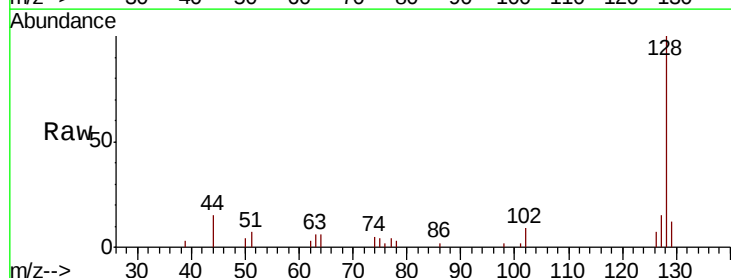


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

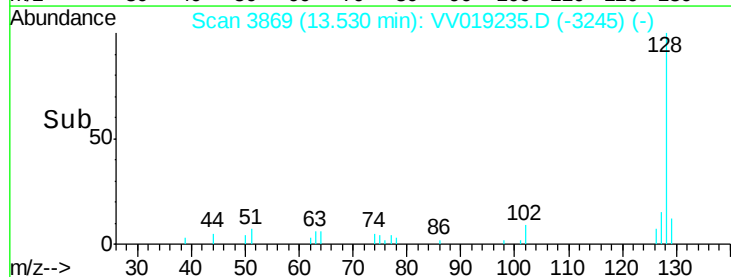
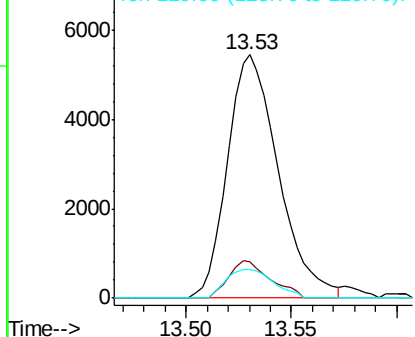


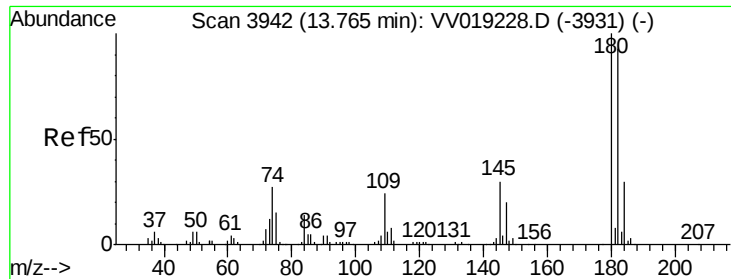
#71
 Naphthalene
 Concen: 1.428 ug/L
 RT: 13.53 min Scan# 3869
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Tgt Ion:128 Resp: 9132
 Ion Ratio Lower Upper
 128 100
 127 12.5 10.7 16.1
 129 10.9 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: 1.801 ug/L
 RT: 13.77 min Scan# 3944
 Delta R.T. 0.01 min
 Lab File: VV019235.D
 Acq: 03 Nov 2020 14:48

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.9	77.4	116.0
145	28.9	24.7	37.1

