

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070820\
 Data File : VD065939.D
 Acq On : 08 Jul 2020 14:43
 Operator : VA/SY
 Sample : L3216-03 2.5PPBMDL
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Quant Time: Jul 09 01:36:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D070720S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 09 01:34:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	398895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	602868	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	562535	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	271541	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	168165	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	
35) Dibromofluoromethane	7.91	113	179464	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
50) Toluene-d8	10.34	98	646100	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	
62) 4-Bromofluorobenzene	12.63	95	223032	47.86	ug/l	0.00
Spiked Amount			Recovery	=	95.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	11103	3.131	ug/l	98
3) Chloromethane	2.20	50	9162	2.606	ug/l	96
4) Vinyl Chloride	2.35	62	8936	2.768	ug/l	95
5) Bromomethane	2.77	94	6442	3.151	ug/l	83
6) Chloroethane	2.93	64	5900	3.058	ug/l	97
7) Trichlorofluoromethane	3.27	101	20378	2.946	ug/l	99
8) Diethyl Ether	3.70	74	5174	2.726	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	4.10	101	11707	2.829	ug/l #	84
10) Methyl Iodide	4.30	142	10054	2.558	ug/l #	96
11) Tert butyl alcohol	5.19	59	6800	26.823	ug/l #	81
12) 1,1-Dichloroethene	4.06	96	11215	2.901	ug/l	96
13) Acrolein	3.92	56	3132	15.017	ug/l	98
14) Allyl chloride	4.71	41	16157	2.466	ug/l	97
15) Acrylonitrile	5.42	53	10928	13.151	ug/l	97
16) Acetone	4.16	43	13642	16.466	ug/l #	89
17) Carbon Disulfide	4.40	76	33891	2.751	ug/l	99
18) Methyl Acetate	4.72	43	6402	3.297	ug/l #	83
19) Methyl tert-butyl Ether	5.47	73	20590	2.516	ug/l	94
20) Methylene Chloride	4.96	84	46283	7.864	ug/l	97
21) trans-1,2-Dichloroethene	5.48	96	12335	2.836	ug/l	87
22) Diisopropyl ether	6.36	45	30908	2.510	ug/l	96
23) Vinyl Acetate	6.30	43	75877	10.797	ug/l	97
24) 1,1-Dichloroethane	6.26	63	19428	2.646	ug/l	93
25) 2-Butanone	7.21	43	15694	14.336	ug/l #	79
26) 2,2-Dichloropropane	7.20	77	19689	3.066	ug/l	98
27) cis-1,2-Dichloroethene	7.20	96	12512	2.677	ug/l	95
28) Bromochloromethane	7.55	49	7978	2.877	ug/l	94
29) Tetrahydrofuran	7.57	42	8518	12.236	ug/l #	65
30) Chloroform	7.70	83	19378	2.604	ug/l	93
31) Cyclohexane	7.98	56	25504	3.531	ug/l #	56
32) 1,1,1-Trichloroethane	7.90	97	18128	2.669	ug/l	95
36) 1,1-Dichloropropene	8.11	75	17757	2.982	ug/l	97
37) Ethyl Acetate	7.29	43	6399	2.565	ug/l #	79
38) Carbon Tetrachloride	8.10	117	18103	2.837	ug/l	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.35	83	19162	2.621	ug/l	90
40) Benzene	8.34	78	44474	2.704	ug/l	94
41) Methacrylonitrile	7.53	41	3991	2.755	ug/l	91
42) 1,2-Dichloroethane	8.42	62	12964	2.782	ug/l	95
43) Isopropyl Acetate	8.44	43	11774	2.535	ug/l #	61
44) Trichloroethene	9.10	130	13003	2.690	ug/l	87
45) 1,2-Dichloropropane	9.38	63	10595	2.595	ug/l	97
46) Dibromomethane	9.48	93	5629	2.648	ug/l	93
47) Bromodichloromethane	9.66	83	14254	2.500	ug/l	94
48) Methyl methacrylate	9.45	41	5535	2.368	ug/l	94
49) 1,4-Dioxane	9.46	88	1273	50.405	ug/l #	76
51) 4-Methyl-2-Pentanone	10.23	43	28068	11.955	ug/l	97
52) Toluene	10.40	92	29755	2.843	ug/l	93
53) t-1,3-Dichloropropene	10.61	75	13981	2.608	ug/l	96
54) cis-1,3-Dichloropropene	10.08	75	15301	2.362	ug/l	97
55) 1,1,2-Trichloroethane	10.80	97	8323	2.842	ug/l #	91
56) Ethyl methacrylate	10.66	69	8975	2.509	ug/l	95
57) 1,3-Dichloropropane	10.94	76	13253	2.588	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.94	63	23163	13.371	ug/l	95
59) 2-Hexanone	10.98	43	19816	12.273	ug/l	100
60) Dibromochloromethane	11.14	129	10361	2.590	ug/l	99
61) 1,2-Dibromoethane	11.25	107	7364	2.522	ug/l	99
64) Tetrachloroethene	10.87	164	12041	2.943	ug/l	93
65) Chlorobenzene	11.67	112	31359	2.766	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.74	131	10712	2.526	ug/l	91
67) Ethyl Benzene	11.74	91	52557	2.610	ug/l	100
68) m/p-Xylenes	11.86	106	38335	5.010	ug/l	96
69) o-Xylene	12.18	106	17641	2.531	ug/l	98
70) Styrene	12.20	104	29932	2.488	ug/l	97
71) Bromoform	12.36	173	6453	2.690	ug/l #	94
73) Isopropylbenzene	12.48	105	48358	2.552	ug/l	99
74) N-amyl acetate	12.29	43	9256	2.177	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.73	83	8451	2.686	ug/l	99
76) 1,2,3-Trichloropropane	12.78	75	11109	4.877	ug/l #	100
77) Bromobenzene	12.76	156	12439	2.706	ug/l	98
78) n-propylbenzene	12.82	91	60067	2.704	ug/l	99
79) 2-Chlorotoluene	12.91	91	34845	2.764	ug/l	96
80) 1,3,5-Trimethylbenzene	12.96	105	39301	2.535	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.63	75	109342	103.142	ug/l #	12
82) 4-Chlorotoluene	13.01	91	36057	2.727	ug/l	98
83) tert-Butylbenzene	13.23	119	34008	2.575	ug/l	96
84) 1,2,4-Trimethylbenzene	13.27	105	38223	2.477	ug/l	99
85) sec-Butylbenzene	13.40	105	48991	2.618	ug/l	100
86) p-Isopropyltoluene	13.52	119	43405	2.536	ug/l	97
87) 1,3-Dichlorobenzene	13.52	146	25065	2.914	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	24189	2.819	ug/l	86
89) n-Butylbenzene	13.85	91	40858	2.542	ug/l	98
90) Hexachloroethane	14.11	117	9199	2.665	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	20209	2.688	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.50	75	1295	2.462	ug/l	88

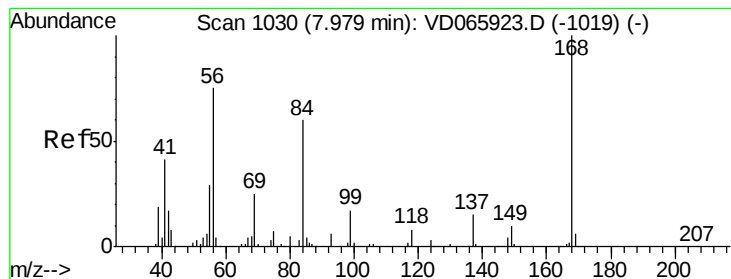
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD070820\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	14091	2.630	ug/l	98
94) Hexachlorobutadiene	15.27	225	9291	2.867	ug/l	96
95) Naphthalene	15.40	128	22686	2.525	ug/l	98
96) 1,2,3-Trichlorobenzene	15.60	180	13244	2.866	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

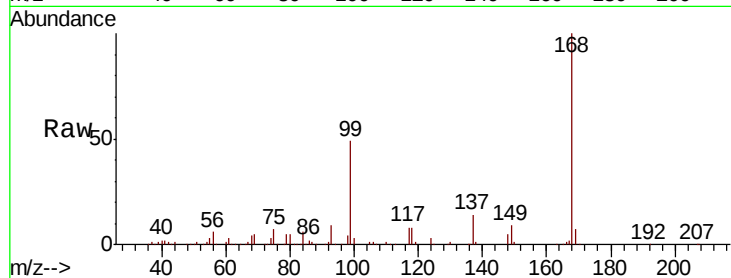
MDL-SOIL-03-QT3-2020DL

Tot Ion:168 Resp: 398895

Ion Ratio Lower Upper

168 100

99 49.1 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

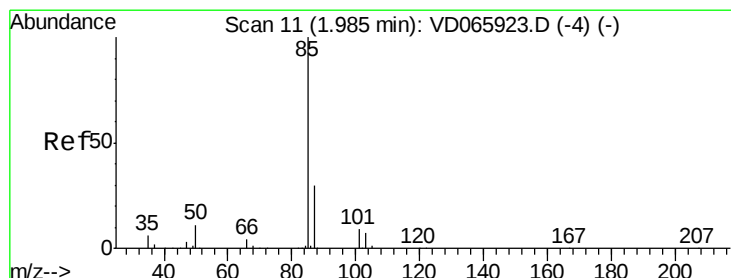
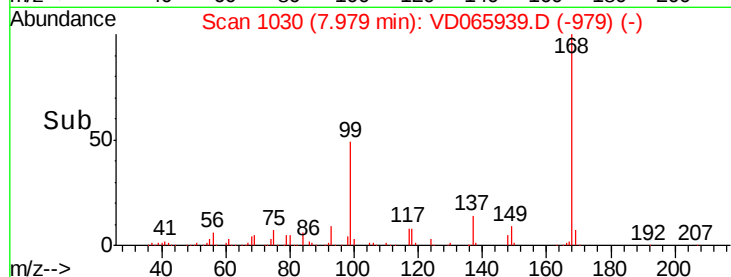
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 3.131 ug/l

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD065939.D

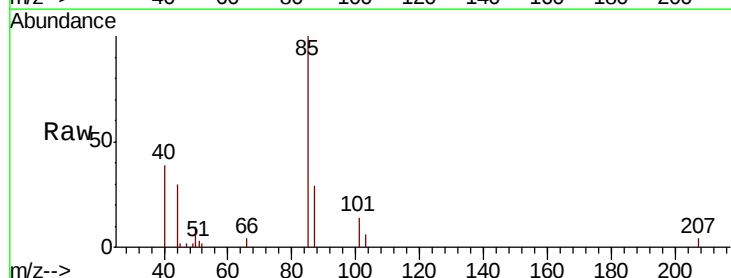
Acq: 08 Jul 2020 14:43

Tgt Ion: 85 Resp: 11103

Ion Ratio Lower Upper

85 100

87 28.8 14.9 44.9



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

10000

8000

6000

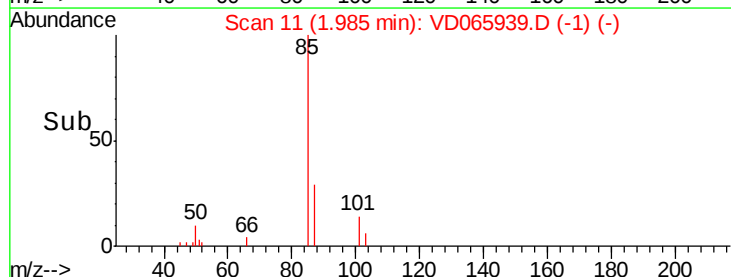
4000

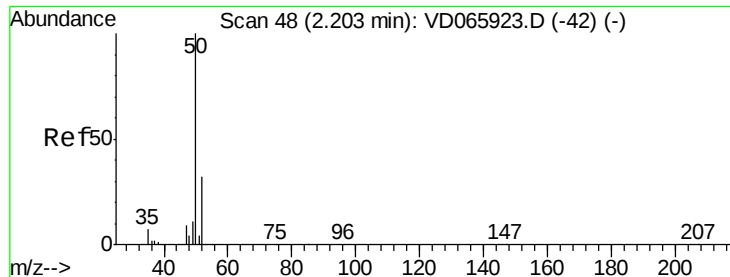
2000

0

1.95 2.00 2.05

Time-->





#3

Chloromethane

Concen: 2.606 ug/l

RT: 2.20 min Scan# 48

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

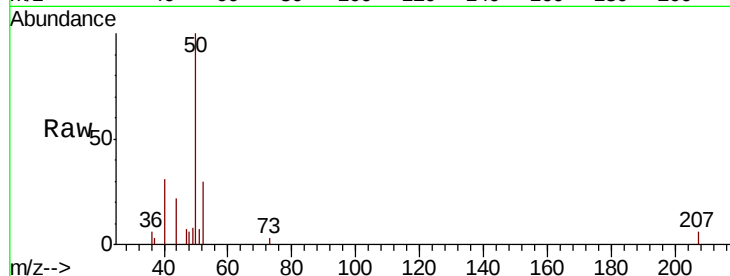
MDL-SOIL-03-QT3-2020DL

Tot Ion: 50 Resp: 9162

Ion Ratio Lower Upper

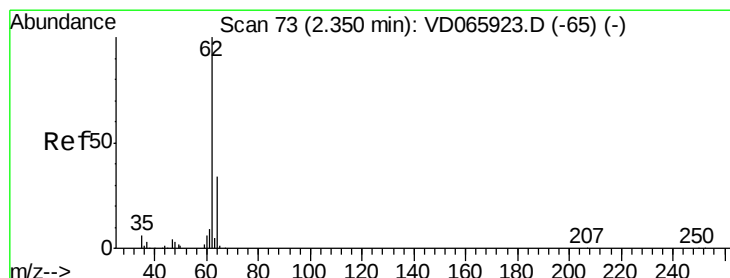
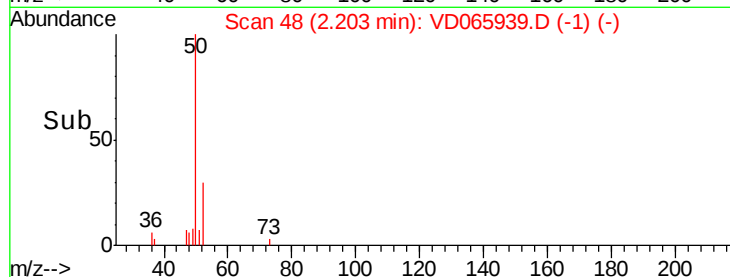
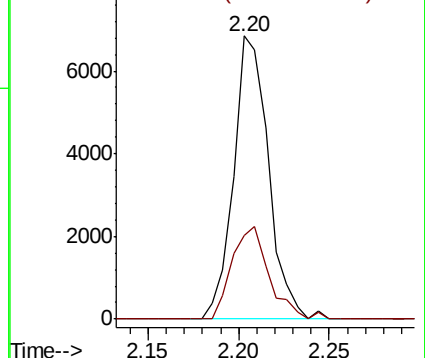
50 100

52 29.7 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 2.768 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065939.D

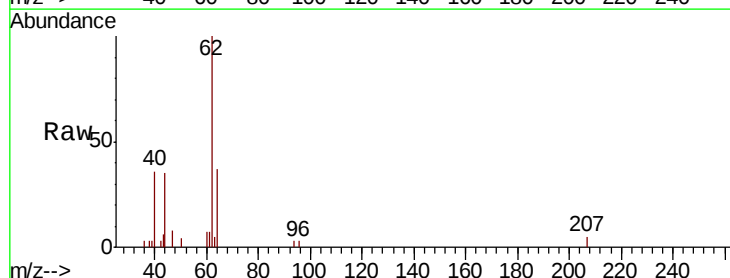
Acq: 08 Jul 2020 14:43

Tgt Ion: 62 Resp: 8936

Ion Ratio Lower Upper

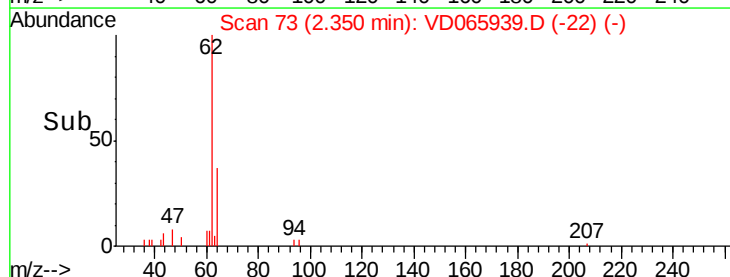
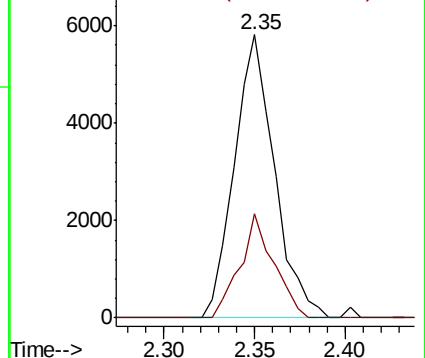
62 100

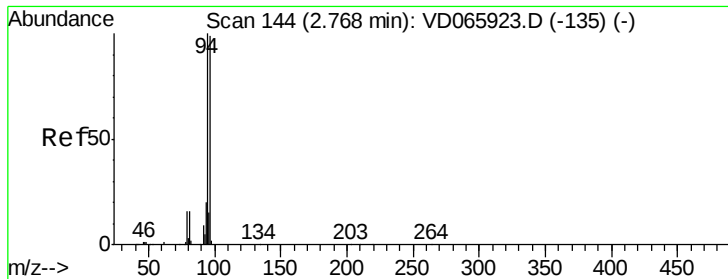
64 36.8 27.2 40.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 3.151 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

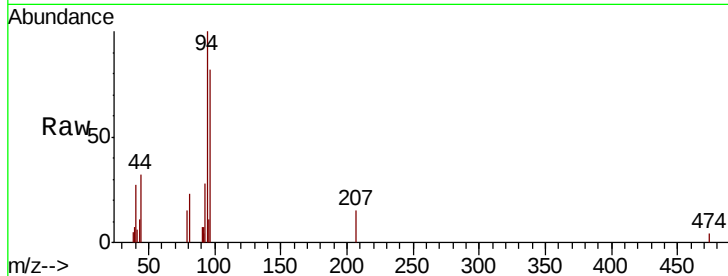
MDL-SOIL-03-QT3-2020DL

Tot Ion: 94 Resp: 6442

Ion Ratio Lower Upper

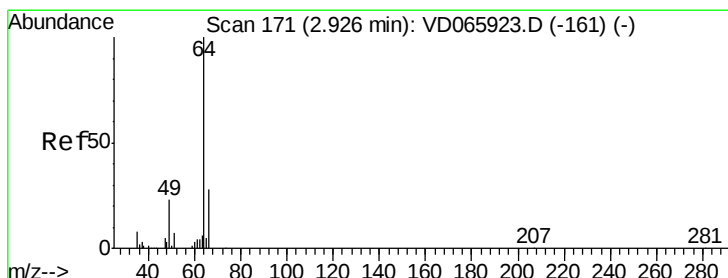
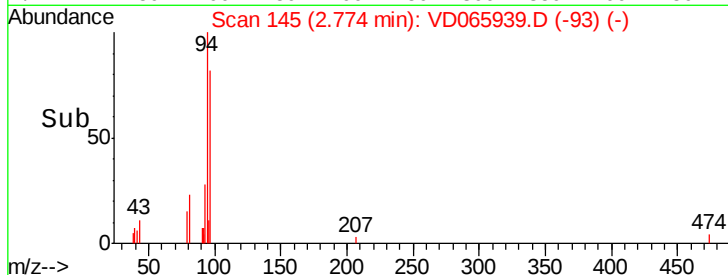
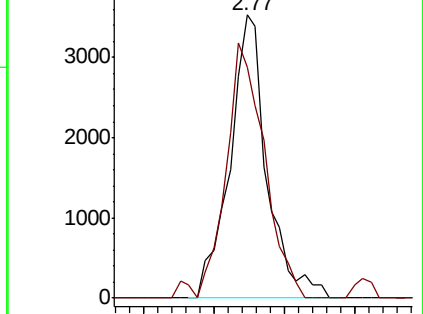
94 100

96 81.7 78.8 118.2



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 3.058 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.00 min

Lab File: VD065939.D

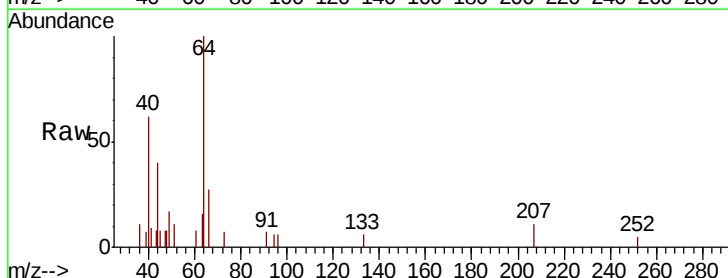
Acq: 08 Jul 2020 14:43

Tgt Ion: 64 Resp: 5900

Ion Ratio Lower Upper

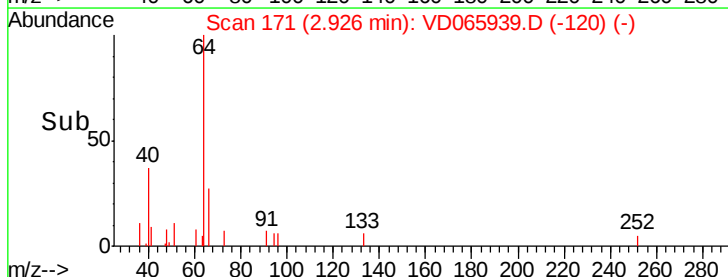
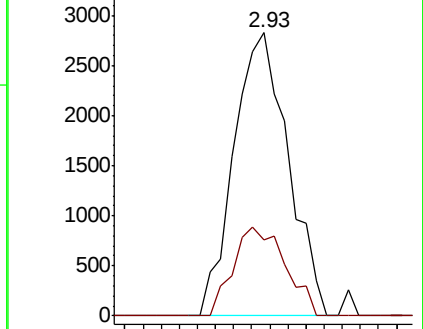
64 100

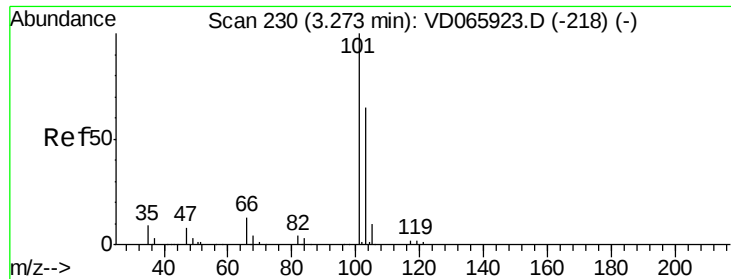
66 26.7 22.6 33.8



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



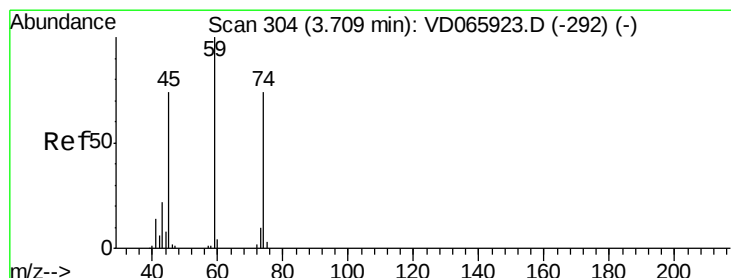
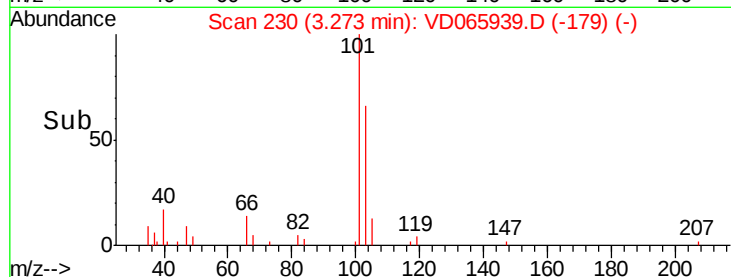
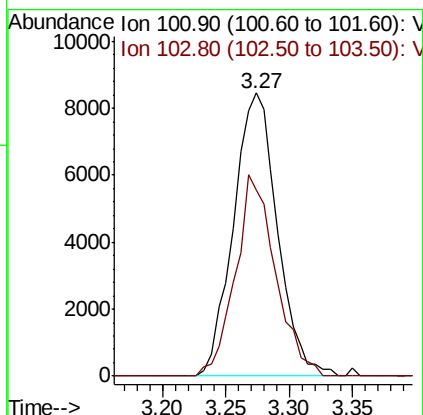
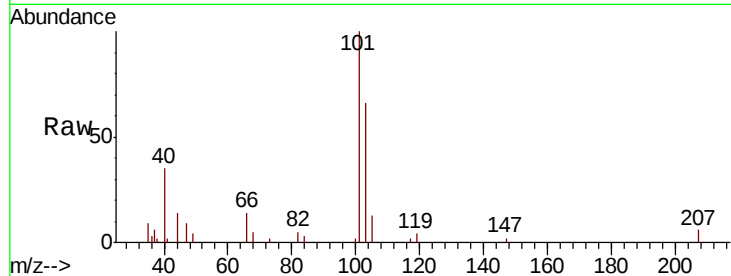


#7

Trichlorofluoromethane
 Concen: 2.946 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

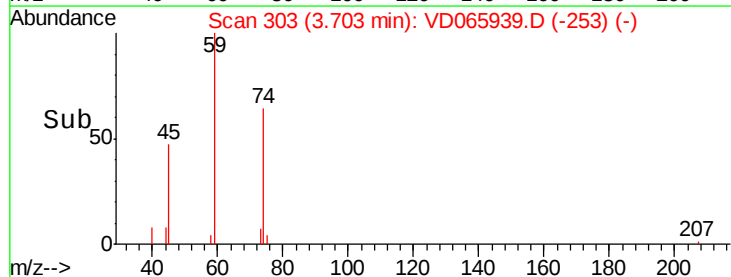
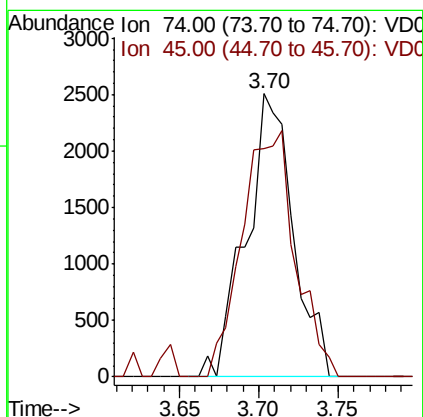
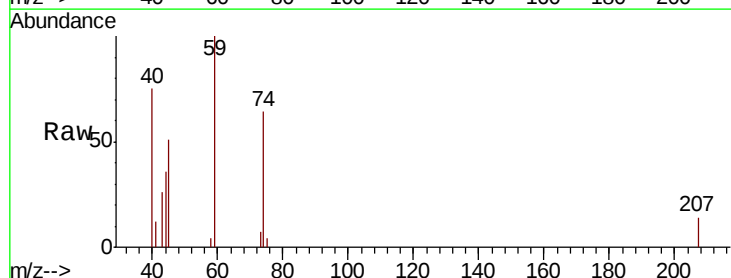
Tot Ion:101 Resp: 20378
 Ion Ratio Lower Upper
 101 100
 103 65.6 51.7 77.5

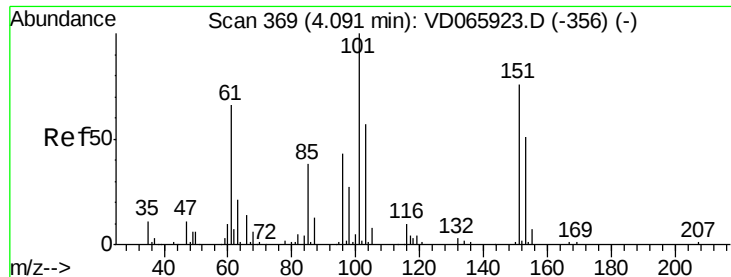


#8

Diethyl Ether
 Concen: 2.726 ug/l
 RT: 3.70 min Scan# 303
 Delta R.T. -0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion: 74 Resp: 5174
 Ion Ratio Lower Upper
 74 100
 45 98.6 51.1 153.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.829 ug/l

RT: 4.10 min Scan# 371

Delta R.T. 0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

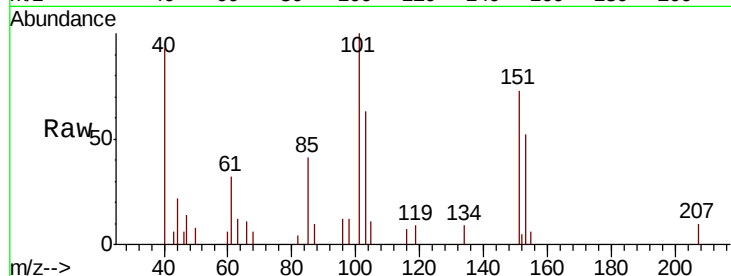
Tot Ion:101 Resp: 11707

Ion Ratio Lower Upper

101 100

85 24.6 33.8 50.8#

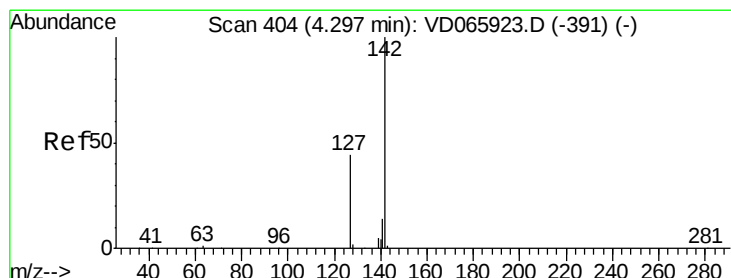
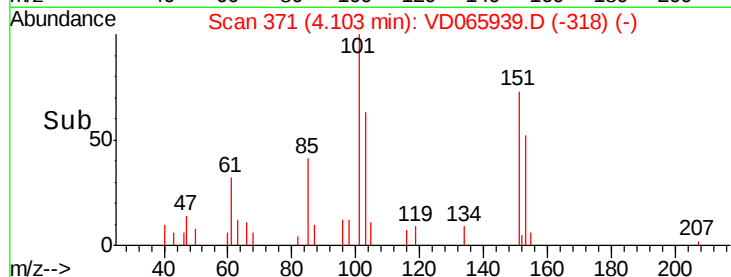
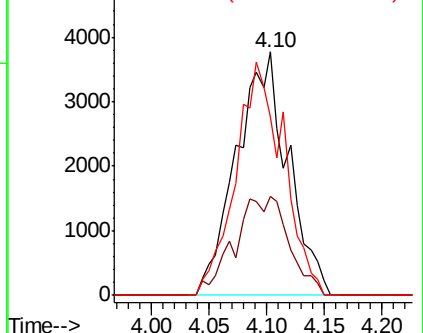
151 88.8 64.1 96.1



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.558 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

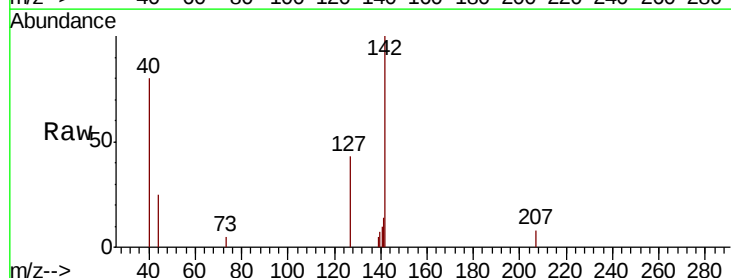
Tgt Ion:142 Resp: 10054

Ion Ratio Lower Upper

142 100

127 41.5 34.6 51.8

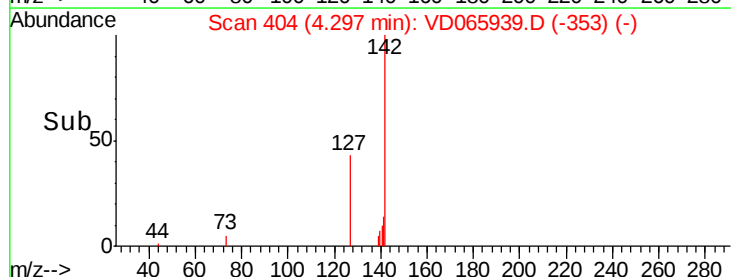
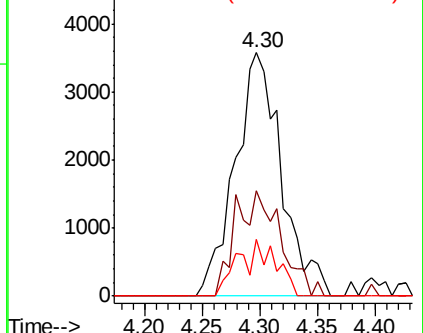
141 11.0 11.6 17.4#

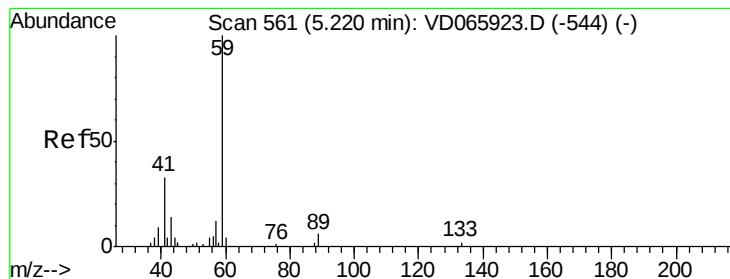


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 26.823 ug/l

RT: 5.19 min Scan# 556

Delta R.T. -0.03 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

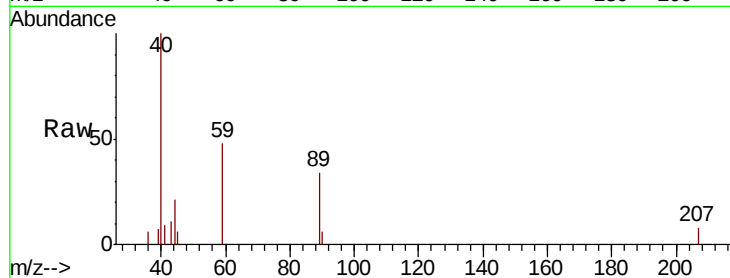
MDL-SOIL-03-QT3-2020DL

Tot Ion: 59 Resp: 6800

Ion Ratio Lower Upper

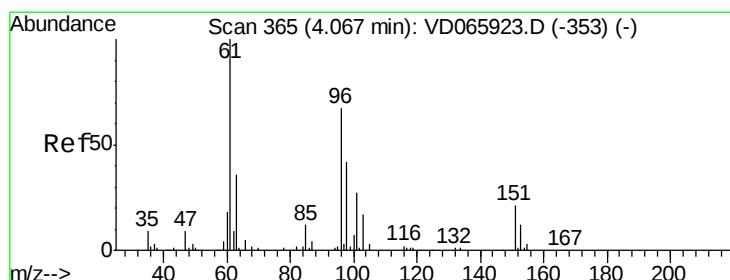
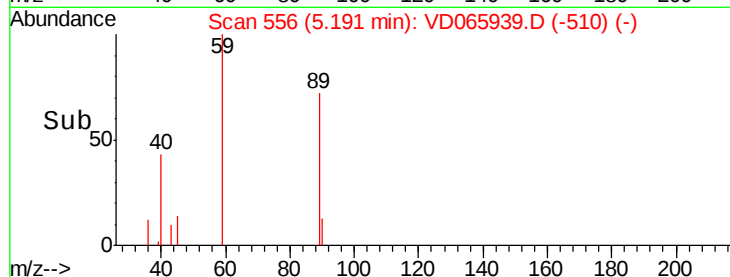
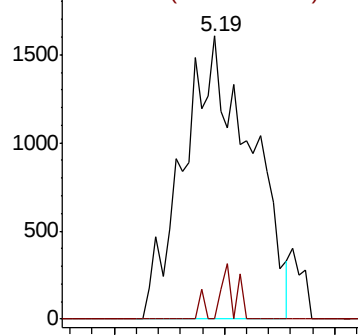
59 100

57 3.8 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC



#12

1,1-Dichloroethene

Concen: 2.901 ug/l

RT: 4.06 min Scan# 364

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

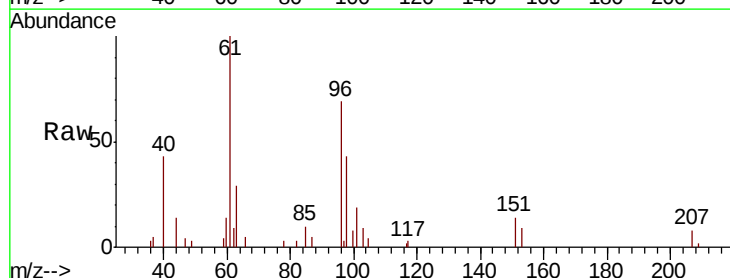
Tgt Ion: 96 Resp: 11215

Ion Ratio Lower Upper

96 100

61 144.1 120.2 180.2

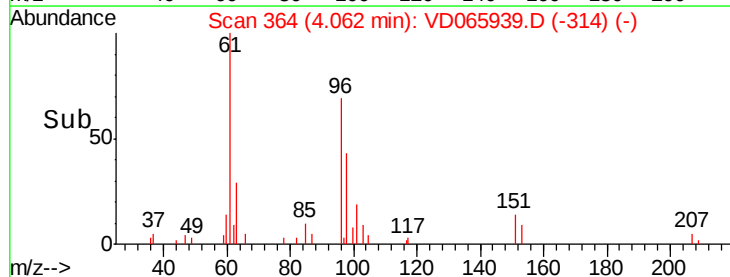
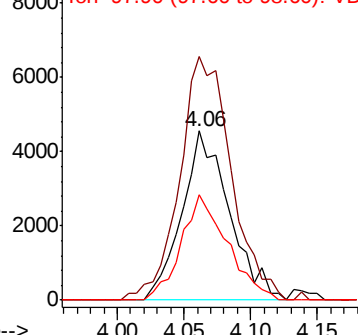
98 62.6 50.6 76.0

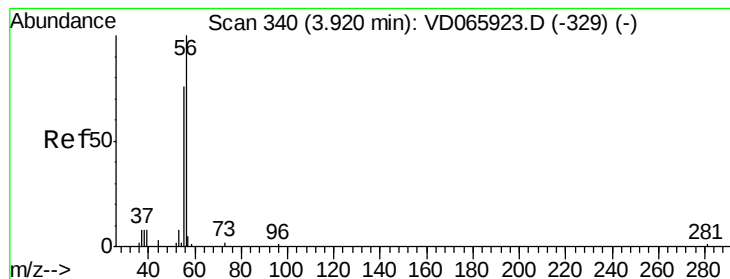


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#13

Acrolein

Concen: 15.017 ug/l

RT: 3.92 min Scan# 340

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

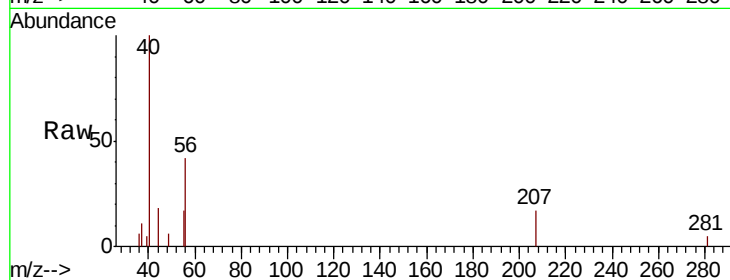
MDL-SOIL-03-QT3-2020DL

Tot Ion: 56 Resp: 3132

Ion Ratio Lower Upper

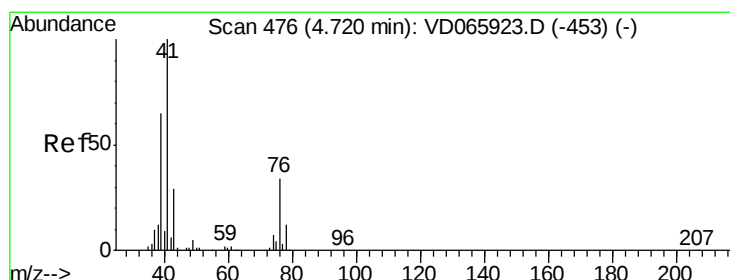
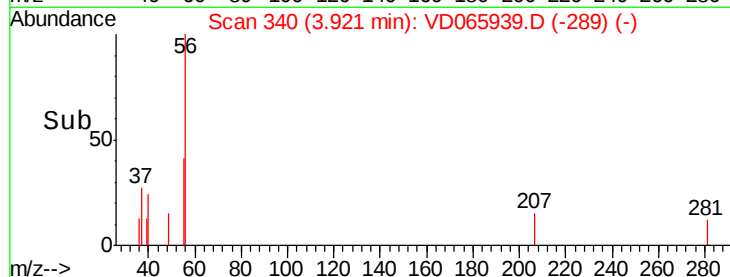
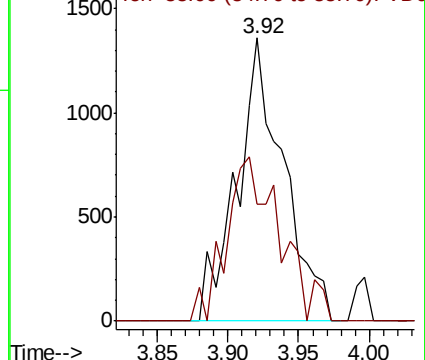
56 100

55 67.6 55.0 82.6



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 2.466 ug/l

RT: 4.71 min Scan# 475

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

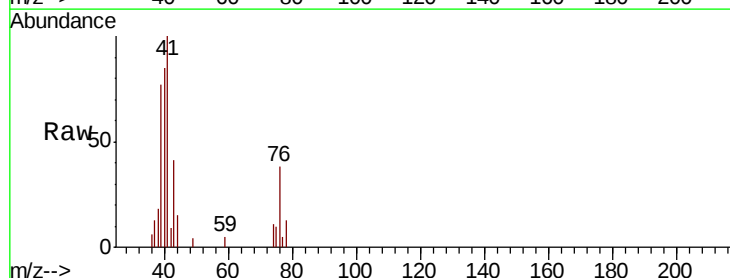
Tgt Ion: 41 Resp: 16157

Ion Ratio Lower Upper

41 100

39 66.8 52.2 78.4

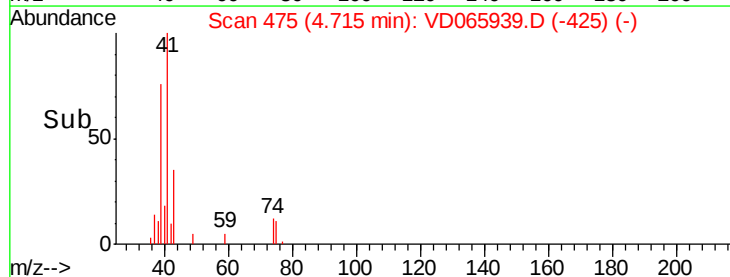
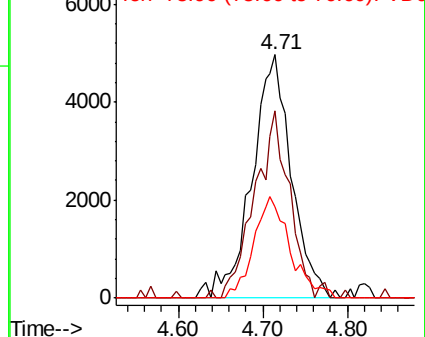
76 38.6 28.1 42.1

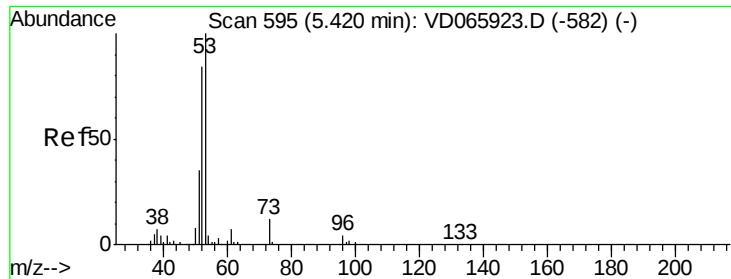


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 13.151 ug/l

RT: 5.42 min Scan# 595

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

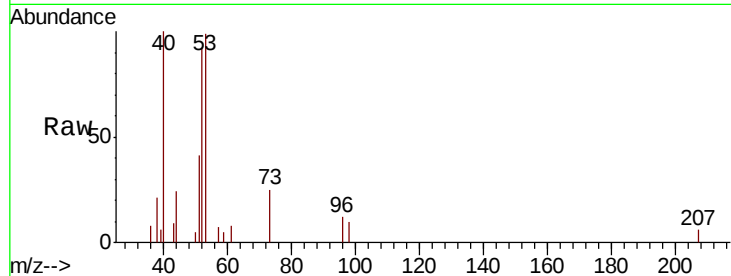
Tot Ion: 53 Resp: 10928

Ion Ratio Lower Upper

53 100

52 86.1 66.3 99.5

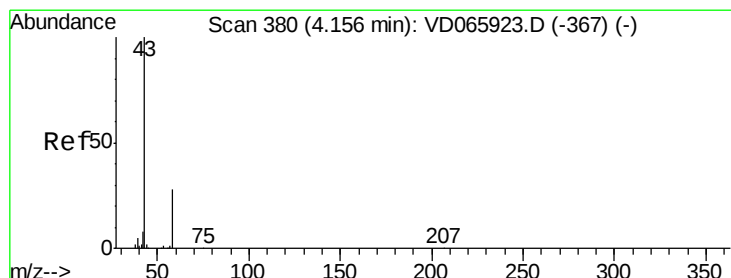
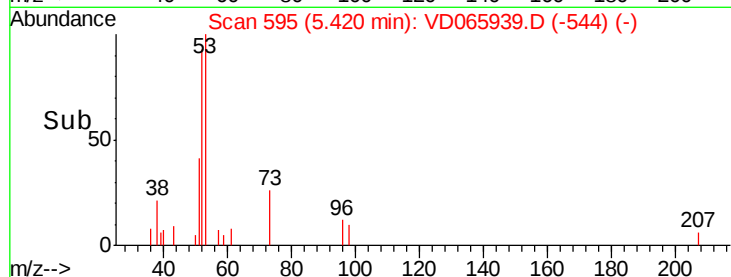
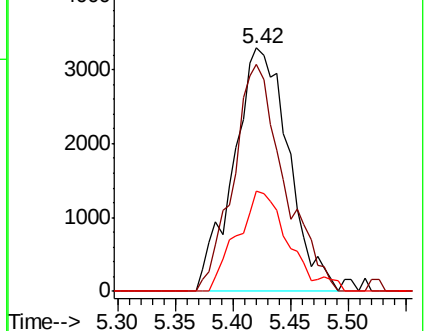
51 37.2 29.8 44.8



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 16.466 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD065939.D

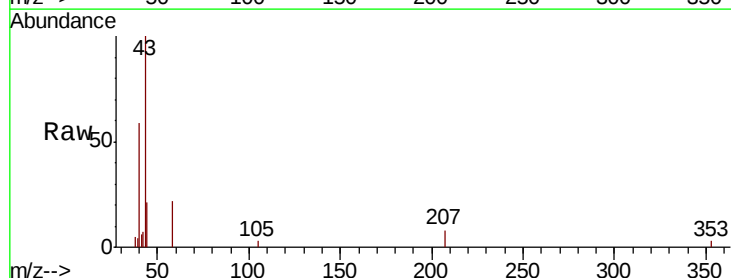
Acq: 08 Jul 2020 14:43

Tgt Ion: 43 Resp: 13642

Ion Ratio Lower Upper

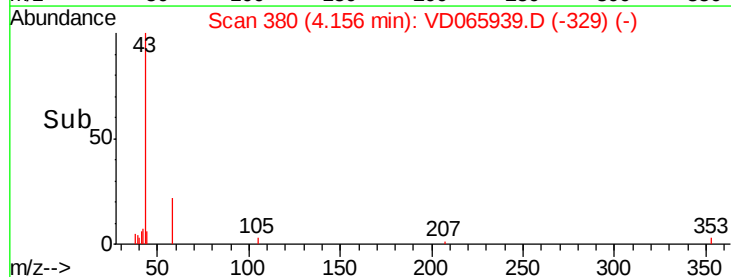
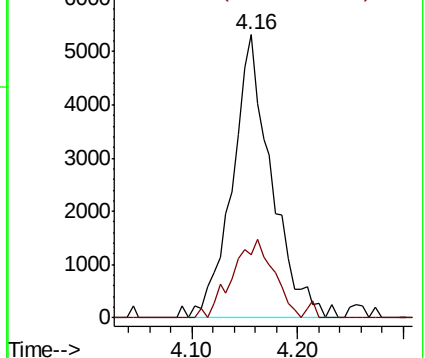
43 100

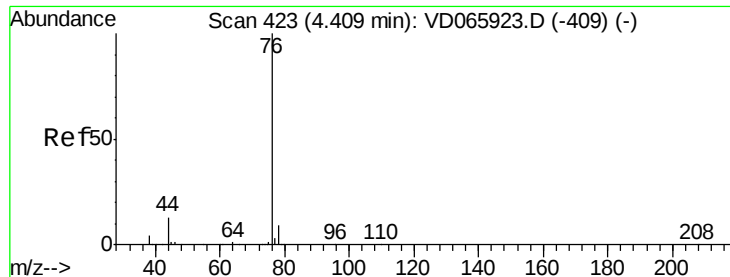
58 22.4 22.7 34.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

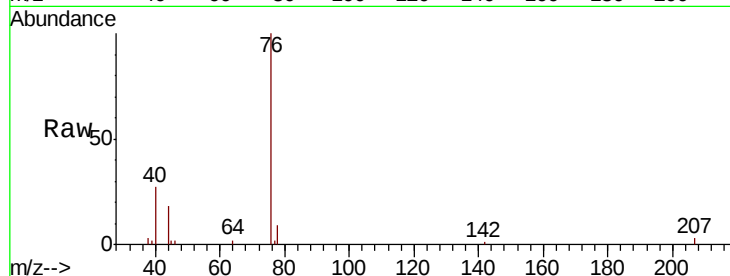




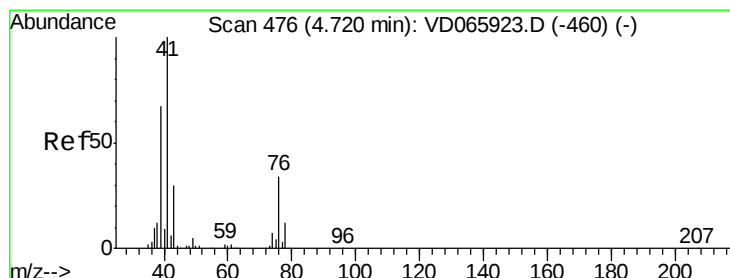
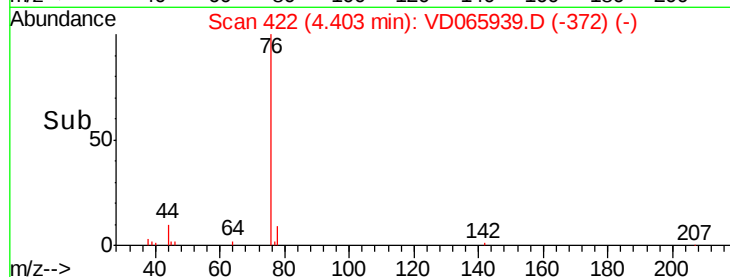
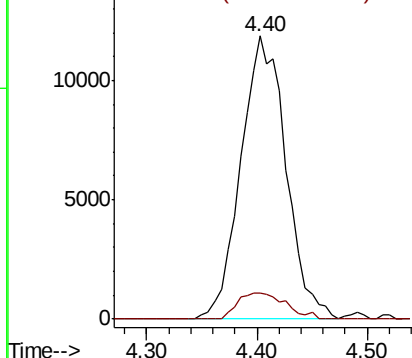
#17
Carbon Disulfide
Concen: 2.751 ug/l
RT: 4.40 min Scan# 422
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion: 76 Resp: 33891
Ion Ratio Lower Upper
76 100
78 9.2 7.5 11.3

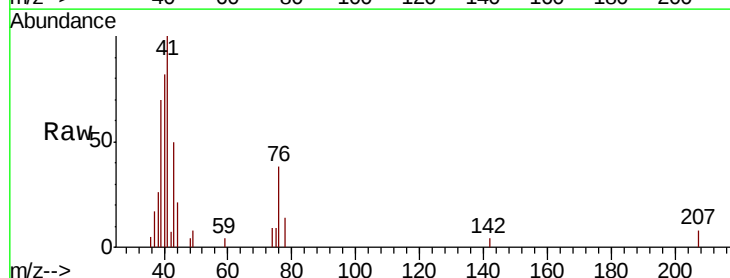


Abundance Ion 75.90 (75.60 to 76.60): VDC
Ion 77.90 (77.60 to 78.60): VDC

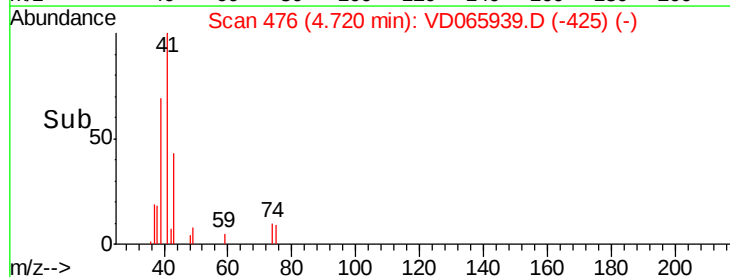
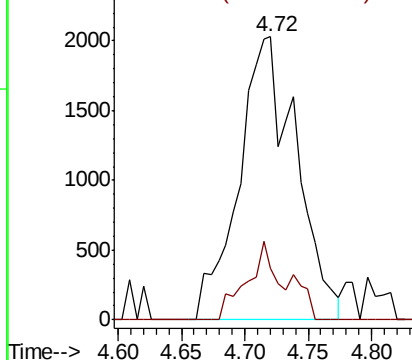


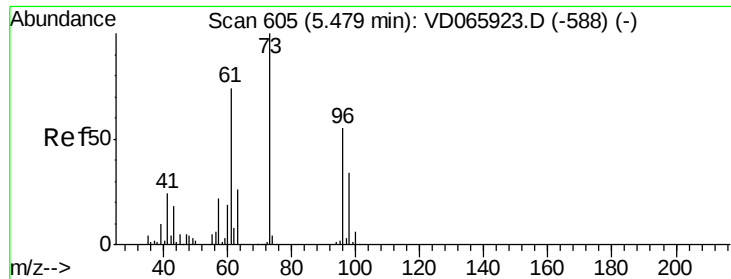
#18
Methyl Acetate
Concen: 3.297 ug/l
RT: 4.72 min Scan# 476
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 43 Resp: 6402
Ion Ratio Lower Upper
43 100
74 14.2 17.8 26.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 74.00 (73.70 to 74.70): VDC

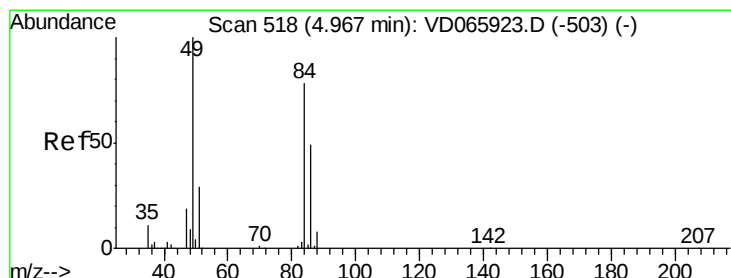
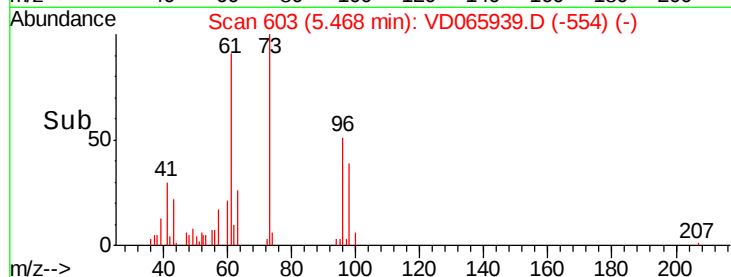
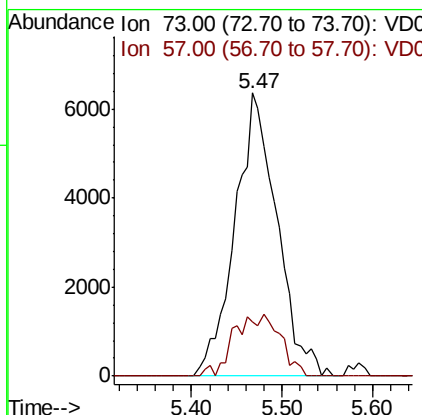
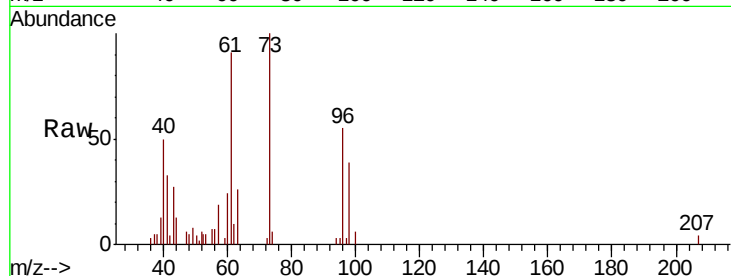




#19
Methyl tert-butyl Ether
Concen: 2.516 ug/l
RT: 5.47 min Scan# 603
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

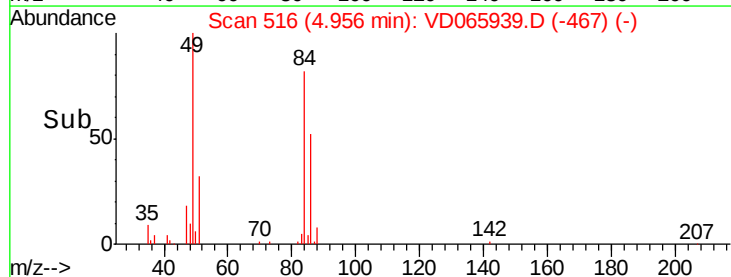
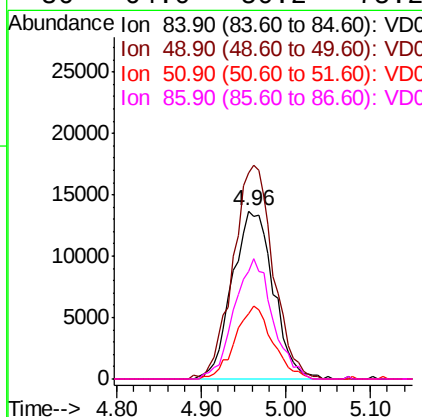
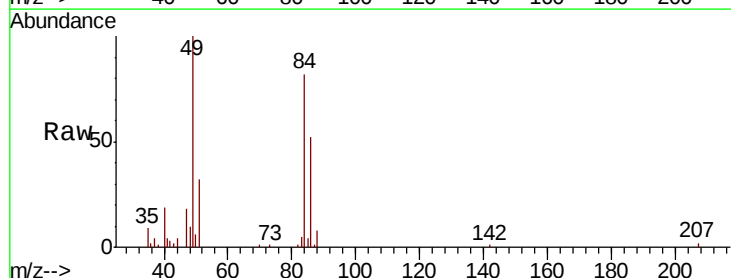
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

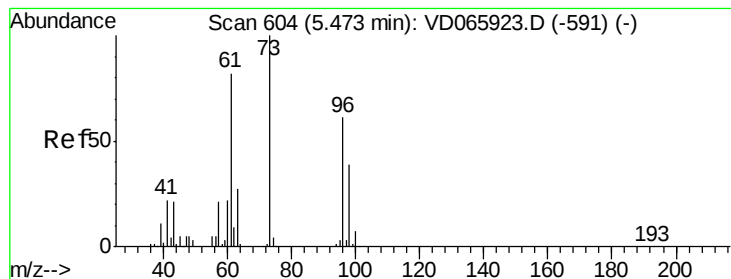
Tot Ion: 73 Resp: 20590
Ion Ratio Lower Upper
73 100
57 19.4 17.7 26.5



#20
Methylene Chloride
Concen: 7.864 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 84 Resp: 46283
Ion Ratio Lower Upper
84 100
49 122.4 102.2 153.2
51 38.8 29.8 44.6
86 64.0 50.2 75.2





#21

trans-1,2-Dichloroethene

Concen: 2.836 ug/l

RT: 5.48 min Scan# 605

Delta R.T. 0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

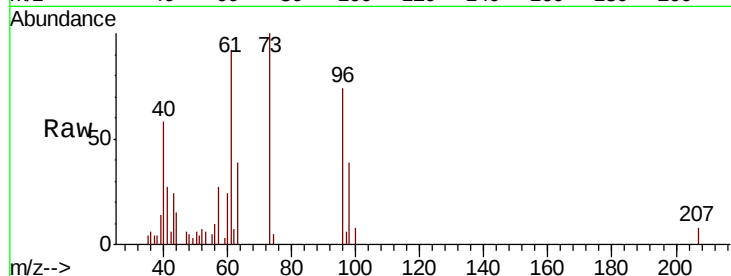
Tot Ion: 96 Resp: 12335

Ion Ratio Lower Upper

96 100

61 118.6 106.6 160.0

98 52.7 51.0 76.6

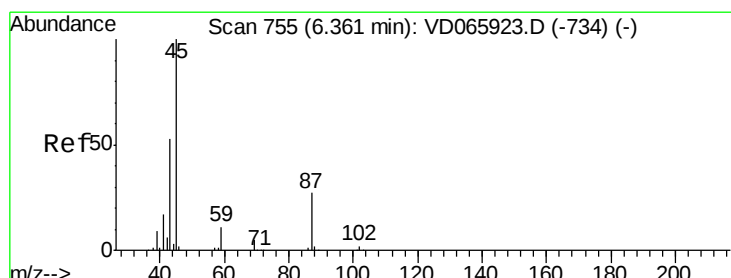
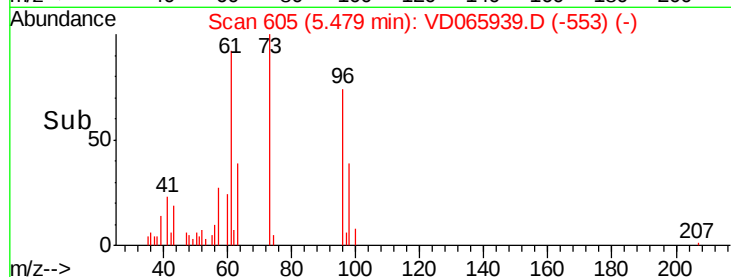
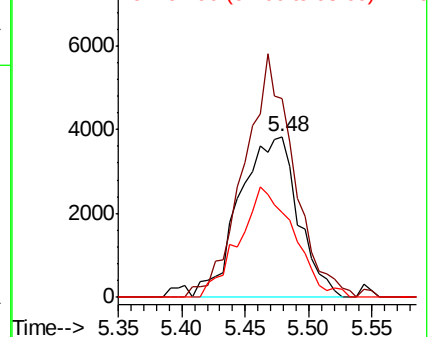


Abundance

Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 2.510 ug/l

RT: 6.36 min Scan# 755

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Tgt Ion: 45 Resp: 30908

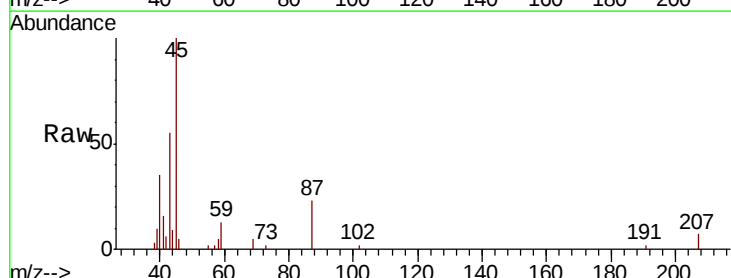
Ion Ratio Lower Upper

45 100

43 52.3 42.5 63.7

87 22.7 22.2 33.2

59 12.6 8.9 13.3



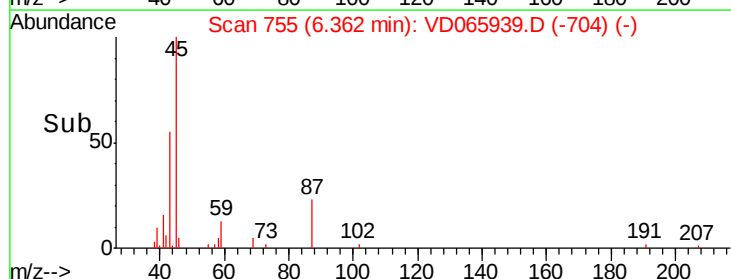
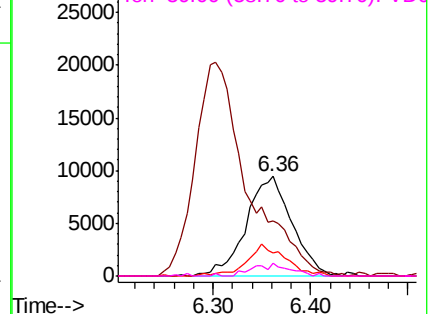
Abundance

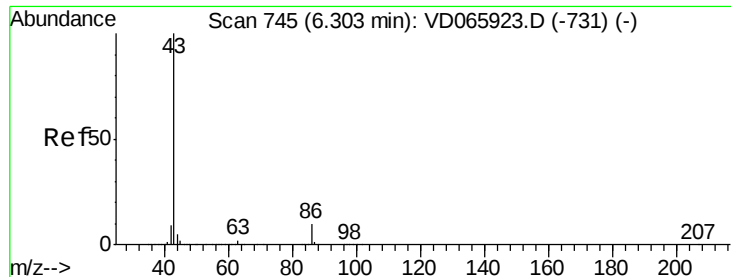
Ion 45.00 (44.70 to 45.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 10.797 ug/l

RT: 6.30 min Scan# 745

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

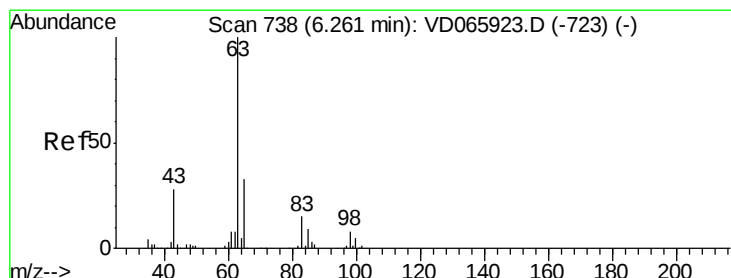
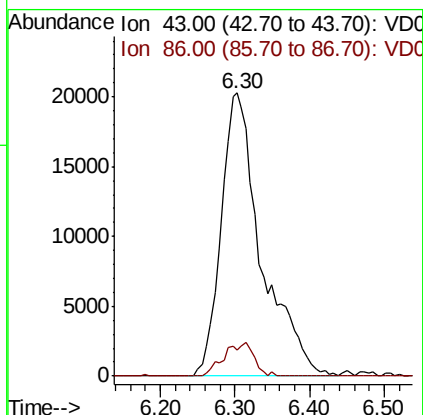
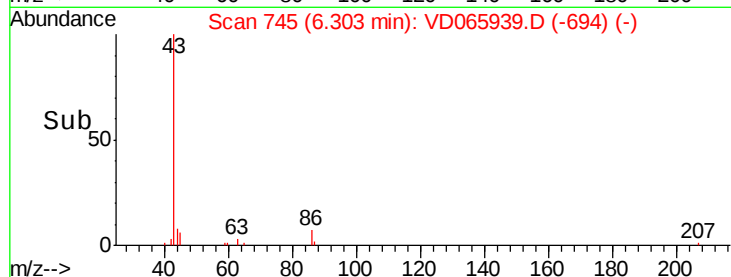
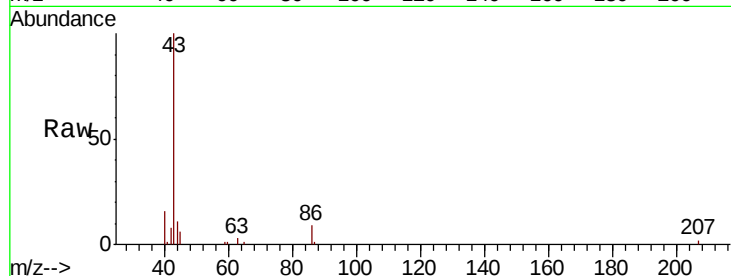
MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 75877

Ion Ratio Lower Upper

43 100

86 9.1 8.1 12.1



#24

1,1-Dichloroethane

Concen: 2.646 ug/l

RT: 6.26 min Scan# 738

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

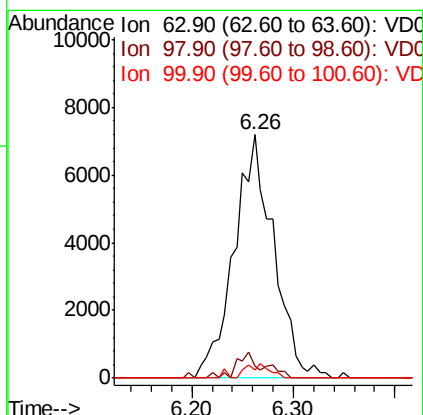
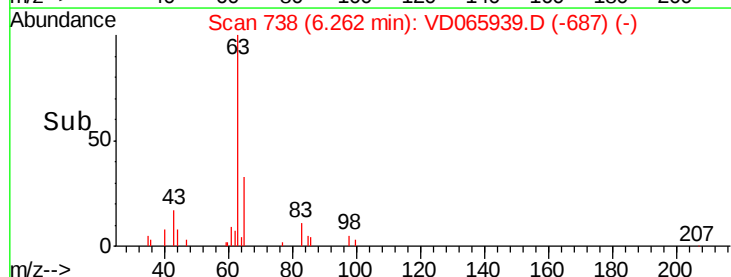
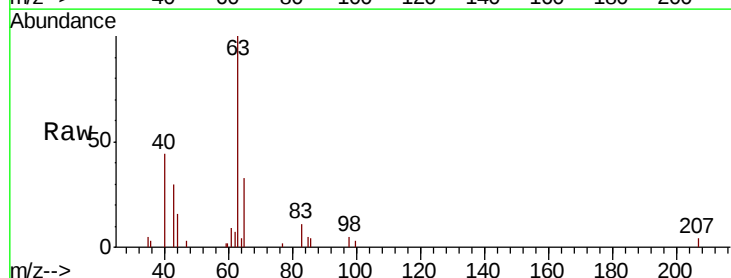
Tgt Ion: 63 Resp: 19428

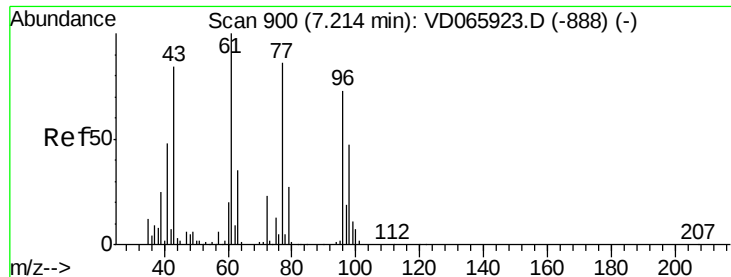
Ion Ratio Lower Upper

63 100

98 4.7 3.8 11.4

100 3.2 2.5 7.5





#25

2-Butanone

Concen: 14.336 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

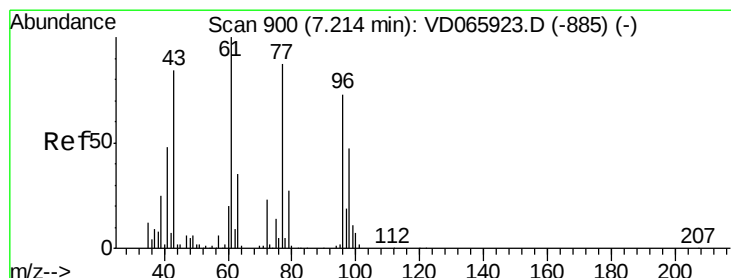
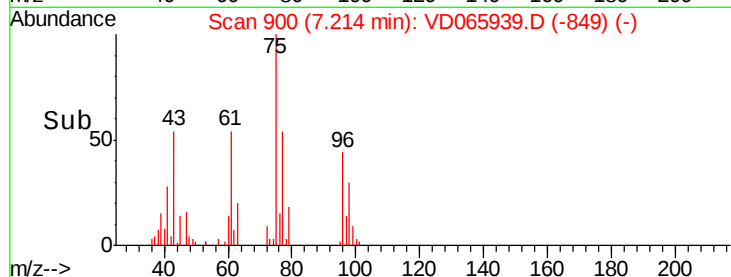
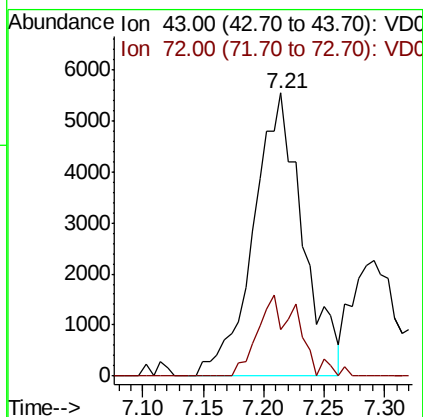
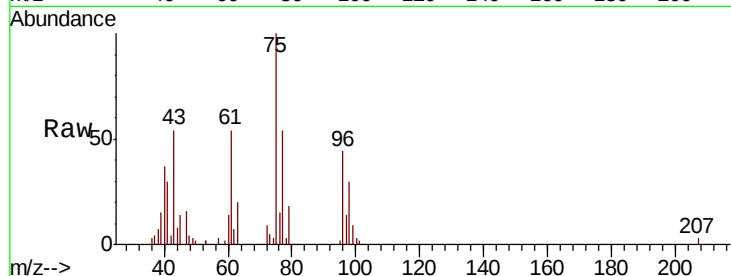
MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 15694

Ion Ratio Lower Upper

43 100

72 16.5 22.1 33.1#



#26

2,2-Dichloropropane

Concen: 3.066 ug/l

RT: 7.20 min Scan# 897

Delta R.T. -0.02 min

Lab File: VD065939.D

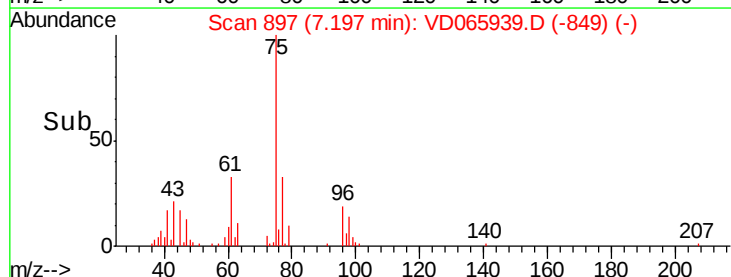
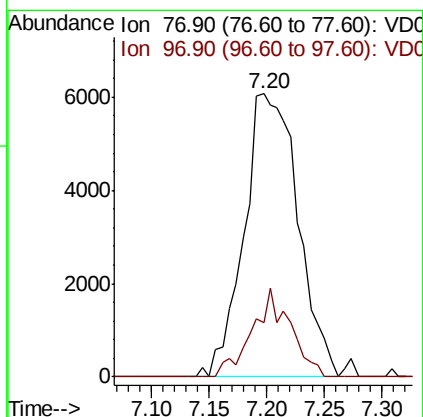
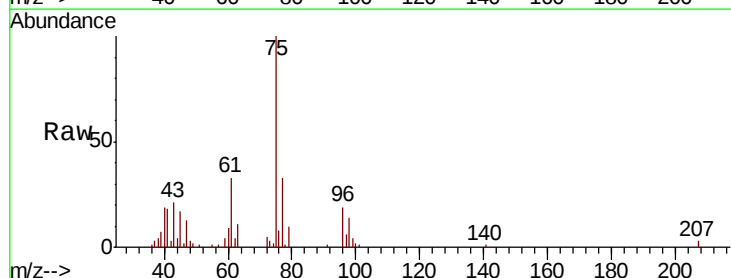
Acq: 08 Jul 2020 14:43

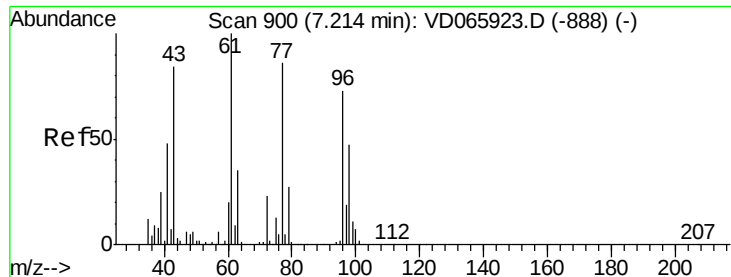
Tgt Ion: 77 Resp: 19689

Ion Ratio Lower Upper

77 100

97 22.3 11.6 34.8

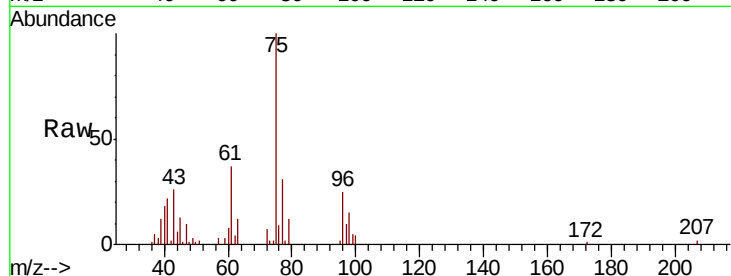




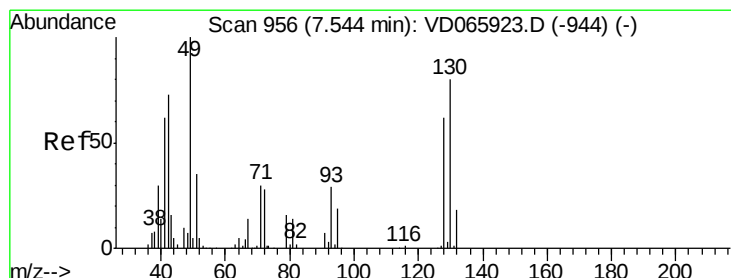
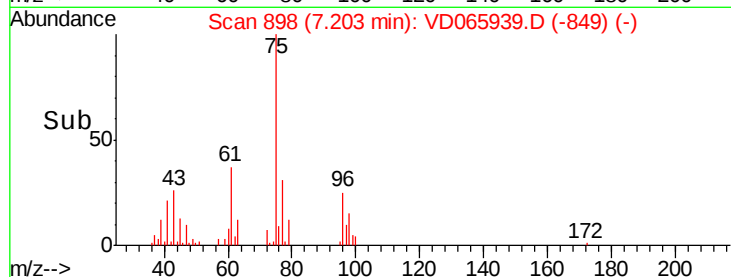
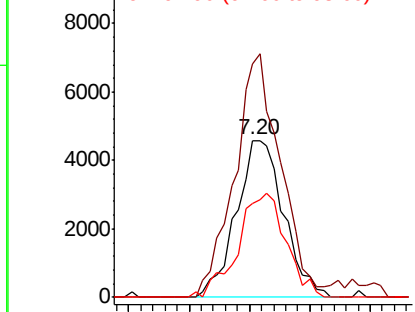
#27
 cis-1,2-Dichloroethene
 Concen: 2.677 ug/l
 RT: 7.20 min Scan# 898
 Delta R.T. -0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Tot Ion: 96 Resp: 12512
 Ion Ratio Lower Upper
 96 100
 61 150.5 0.0 286.6
 98 67.1 0.0 128.2

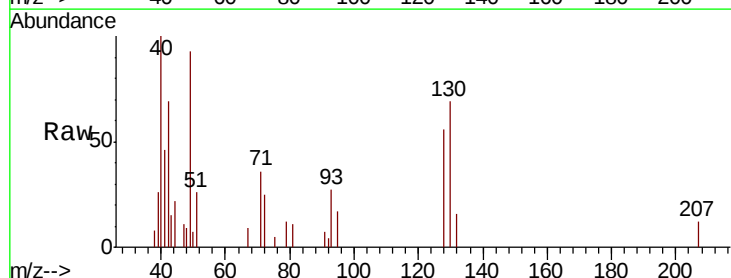


Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 97.90 (97.60 to 98.60): VDC

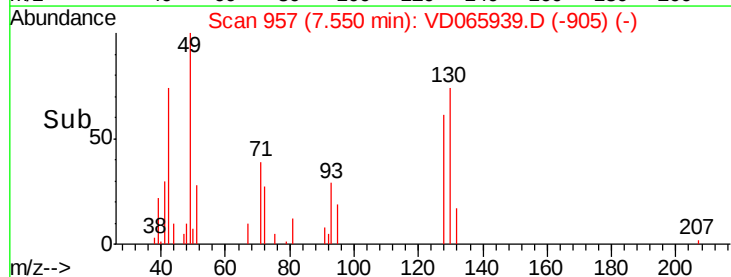
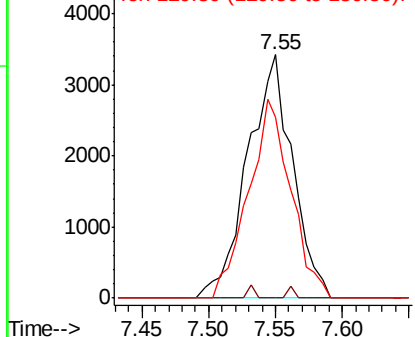


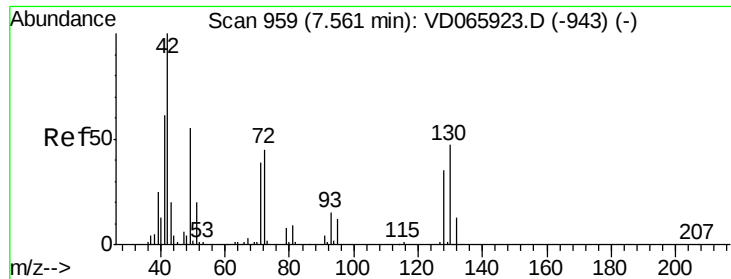
#28
 Bromochloromethane
 Concen: 2.877 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. 0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion: 49 Resp: 7978
 Ion Ratio Lower Upper
 49 100
 129 0.8 0.0 4.8
 130 76.7 65.8 98.8



Abundance Ion 48.90 (48.60 to 49.60): VDC
 Ion 128.80 (128.50 to 129.50): VDC
 Ion 129.80 (129.50 to 130.50): VDC

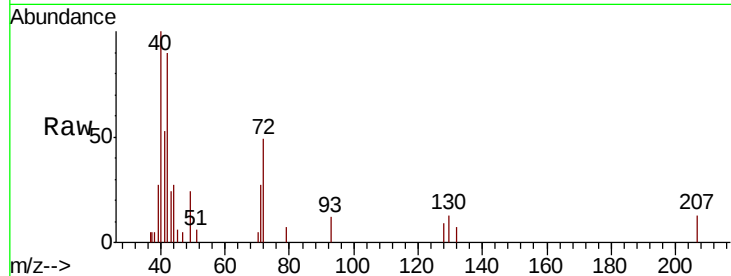




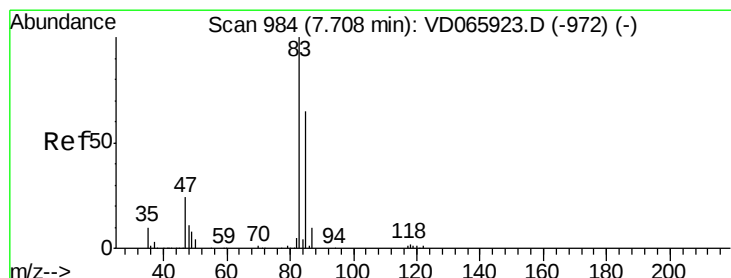
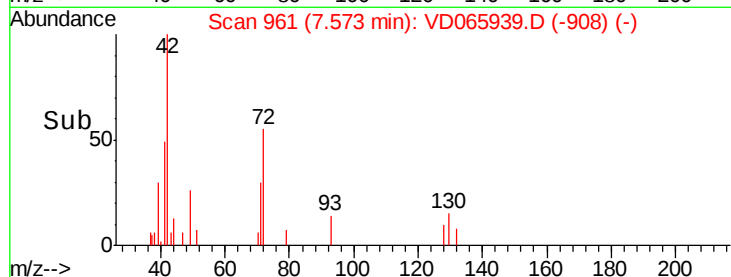
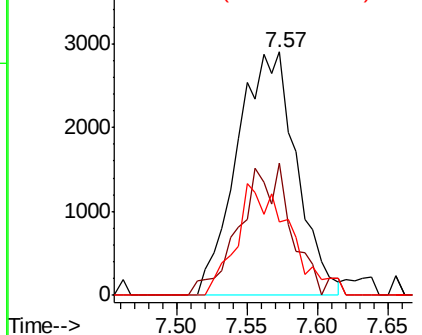
#29
Tetrahydrofuran
Concen: 12.236 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion: 42 Resp: 8518
Ion Ratio Lower Upper
42 100
72 45.8 32.8 49.2
71 0.0 31.0 46.4#

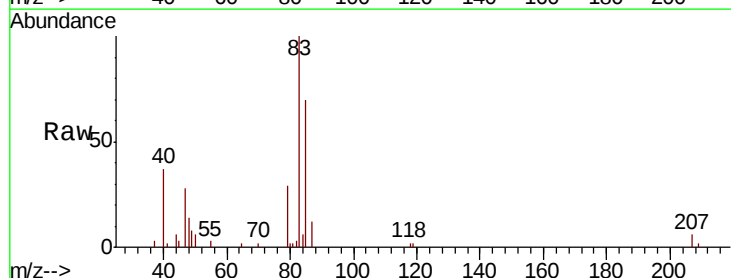


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

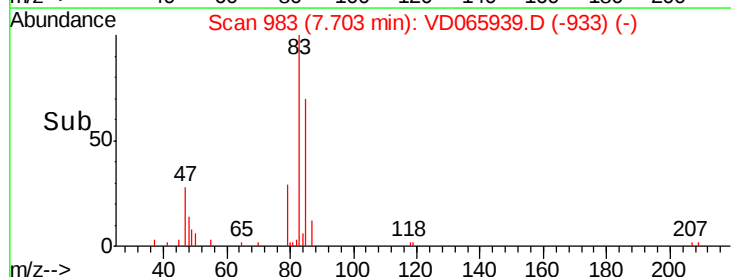
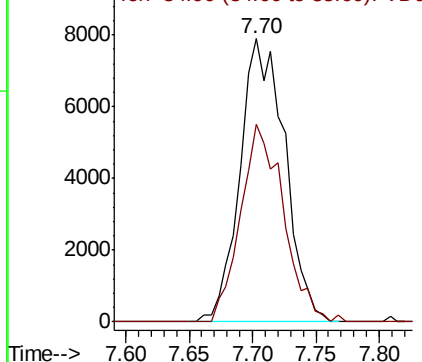


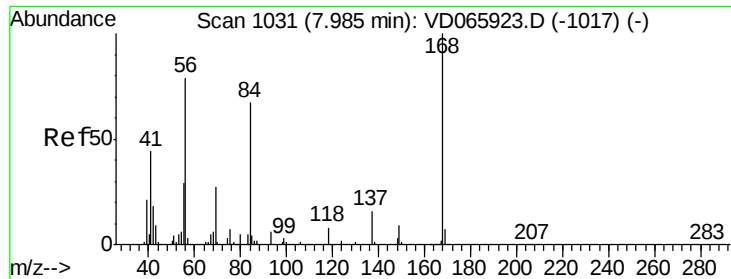
#30
Chloroform
Concen: 2.604 ug/l
RT: 7.70 min Scan# 983
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 83 Resp: 19378
Ion Ratio Lower Upper
83 100
85 70.0 51.6 77.4



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC

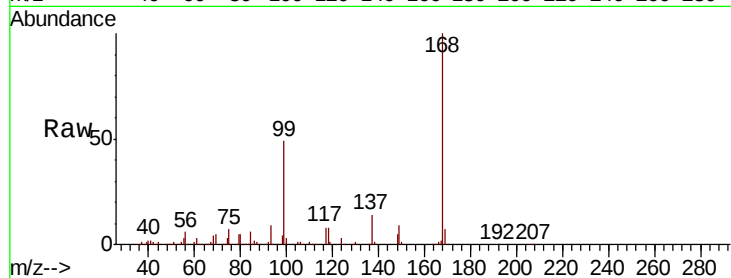




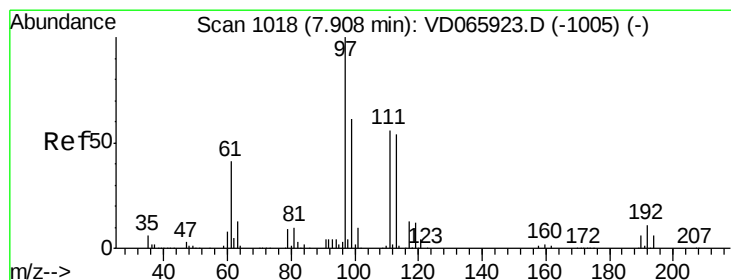
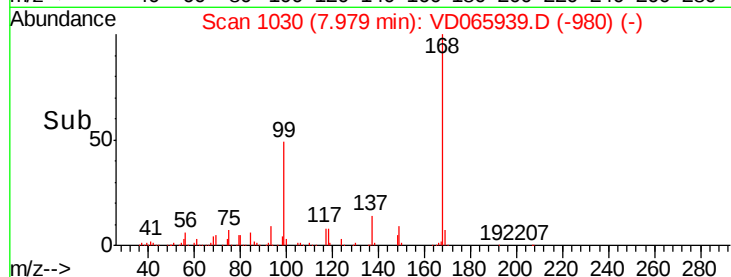
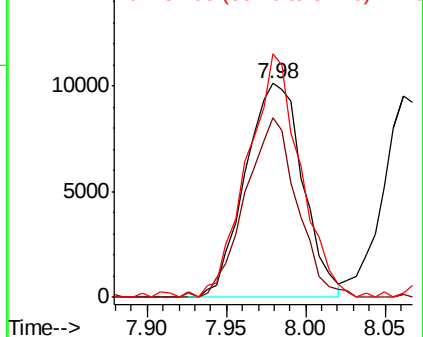
#31
Cyclohexane
Concen: 3.531 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion: 56 Resp: 25504
Ion Ratio Lower Upper
56 100
69 81.2 27.4 41.0#
84 111.8 68.6 102.8#

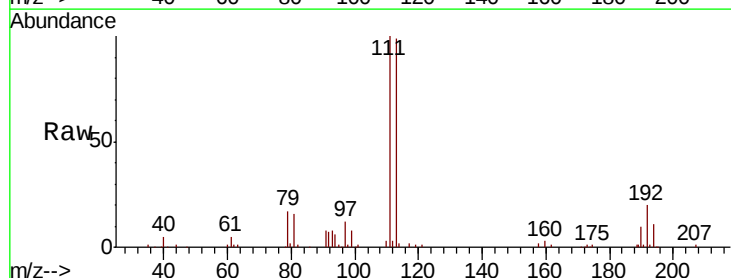


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

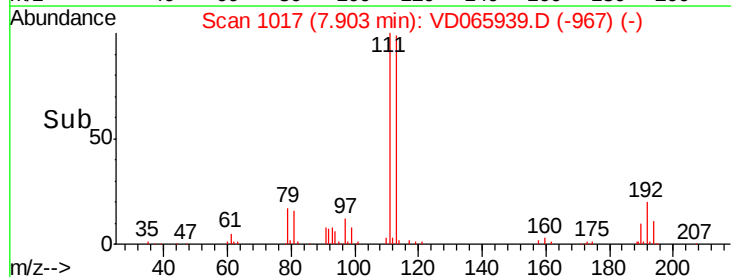
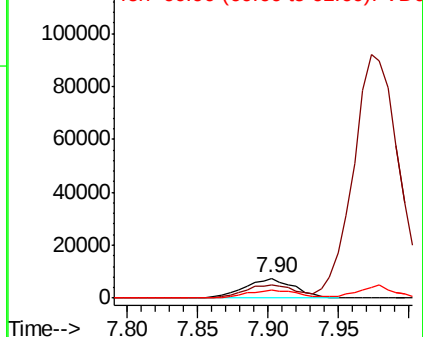


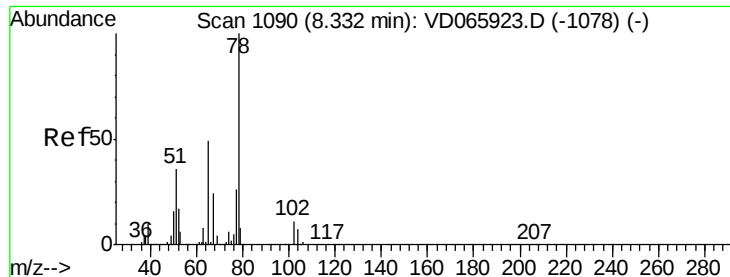
#32
1,1,1-Trichloroethane
Concen: 2.669 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 97 Resp: 18128
Ion Ratio Lower Upper
97 100
99 69.8 51.6 77.4
61 43.5 33.6 50.4



Abundance Ion 96.90 (96.60 to 97.60): VDC
Ion 98.90 (98.60 to 99.60): VDC
Ion 60.90 (60.60 to 61.60): VDC





#33

1,2-Dichloroethane-d4

Concen: 47.570 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

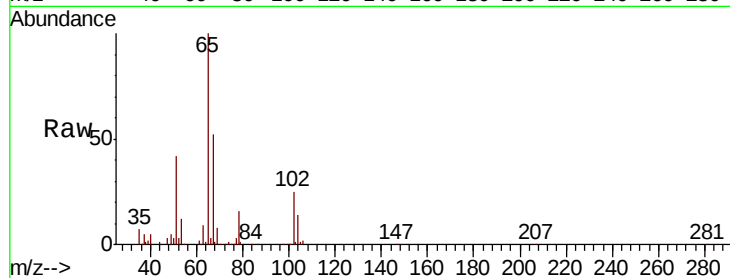
MDL-SOIL-03-QT3-2020DL

Tot Ion: 65 Resp: 168165

Ion Ratio Lower Upper

65 100

67 51.6 0.0 105.6

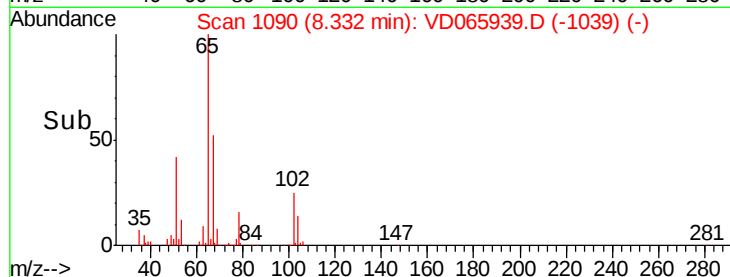


Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

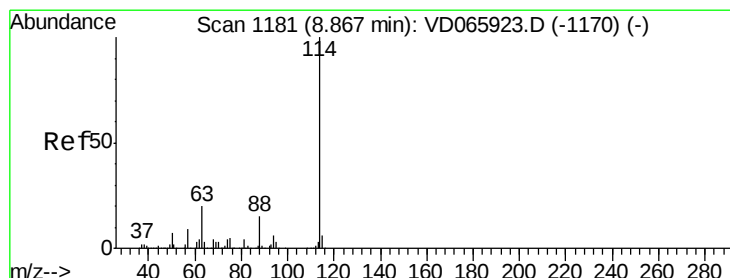
8.33

Time-->



8.33

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

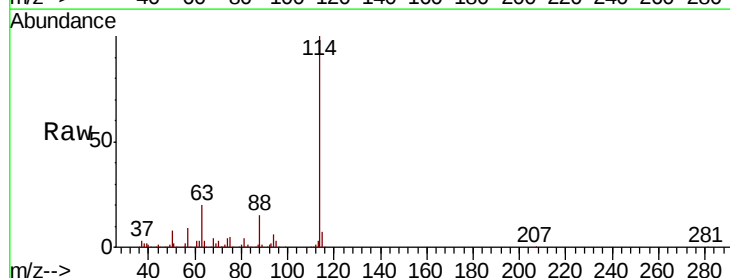
Tgt Ion: 114 Resp: 602868

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.2

88 15.4 0.0 30.0



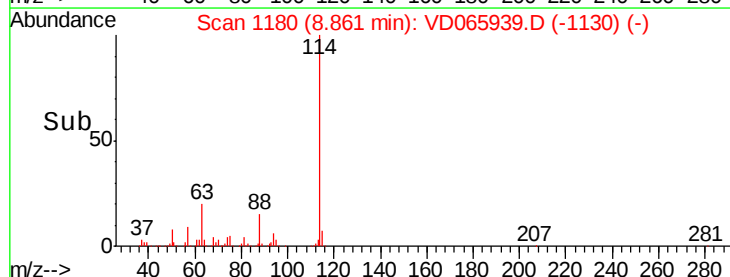
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

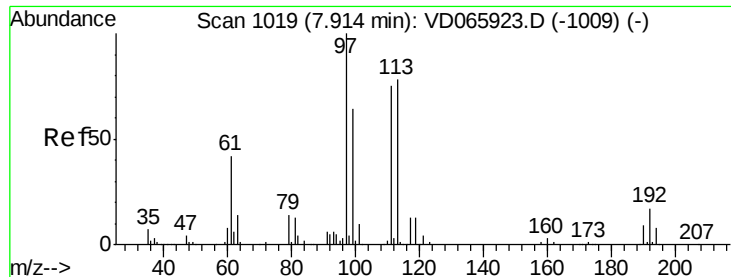
8.86

Time-->



8.86

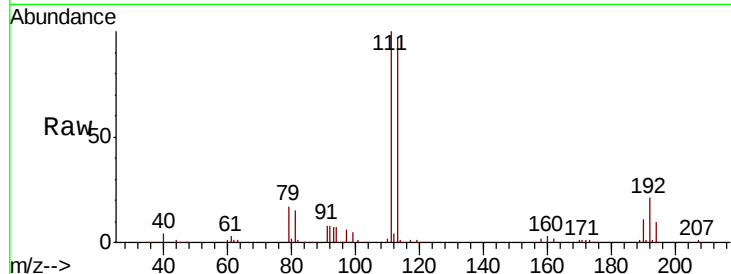
Time-->



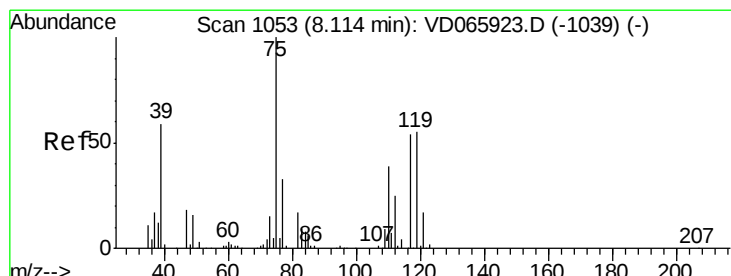
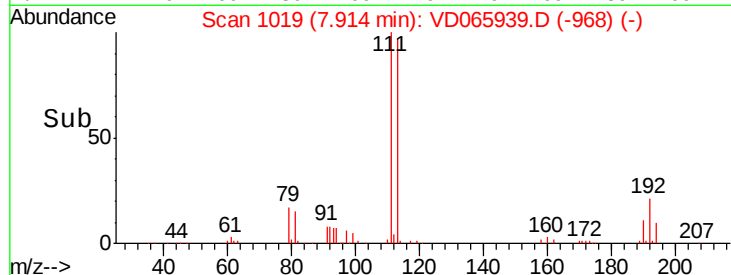
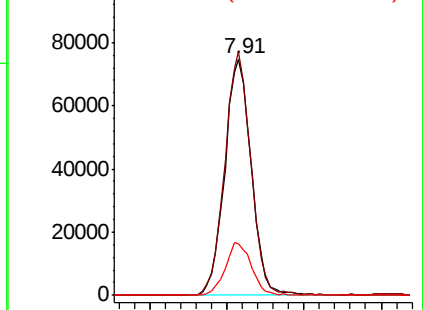
#35
 Dibromofluoromethane
 Concen: 48.256 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Tot Ion:113 Resp: 179464
 Ion Ratio Lower Upper
 113 100
 111 101.5 80.9 121.3
 192 21.8 17.1 25.7

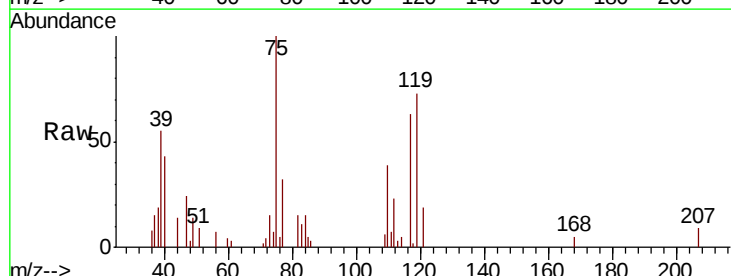


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

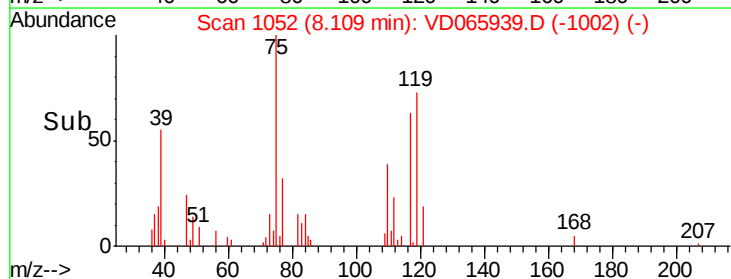
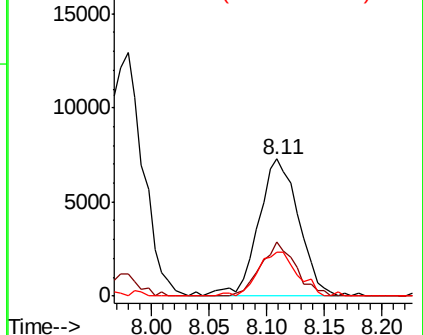


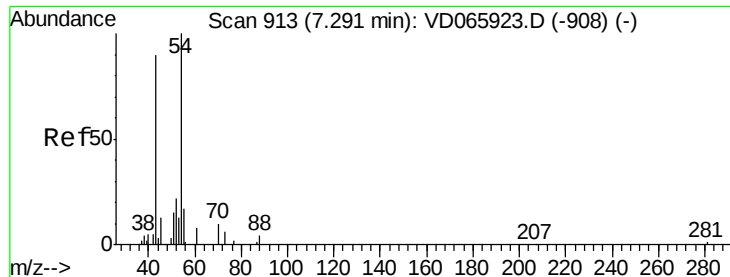
#36
 1,1-Dichloropropene
 Concen: 2.982 ug/l
 RT: 8.11 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion: 75 Resp: 17757
 Ion Ratio Lower Upper
 75 100
 110 34.3 18.5 55.5
 77 31.5 25.6 38.4



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

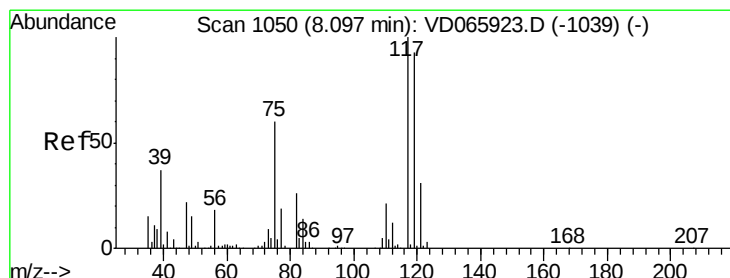
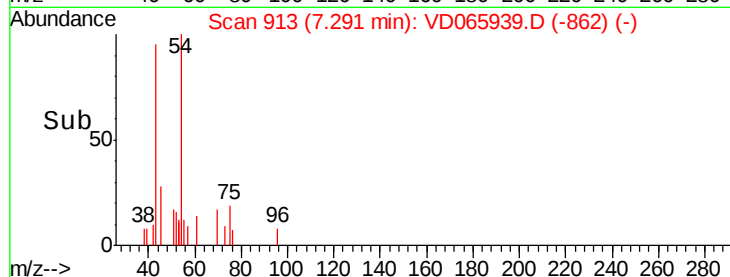
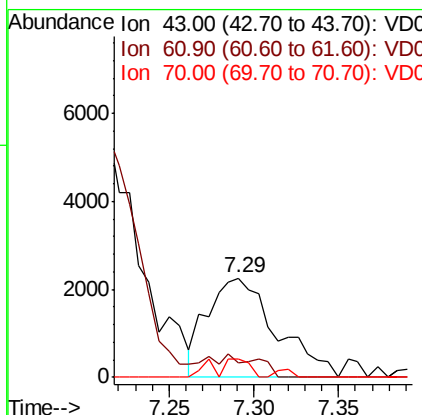
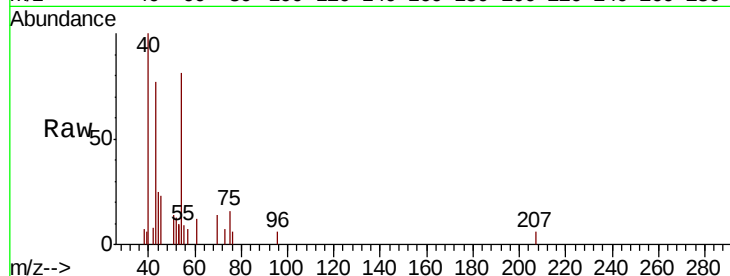




#37
Ethyl Acetate
Concen: 2.565 ug/l
RT: 7.29 min Scan# 913
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

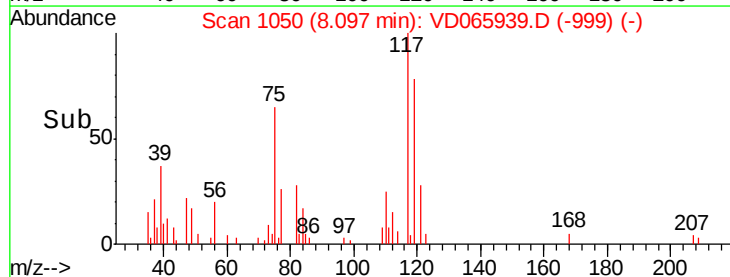
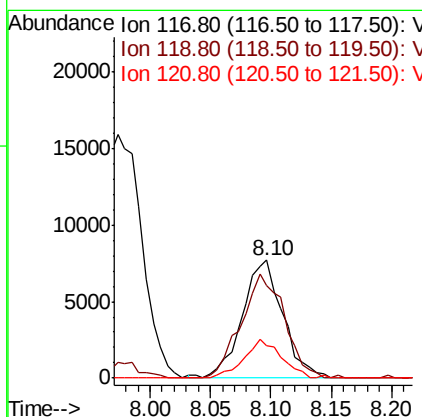
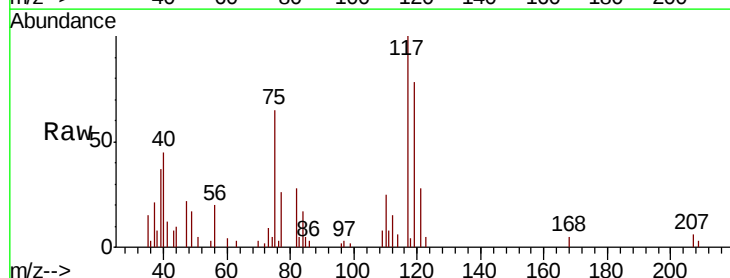
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

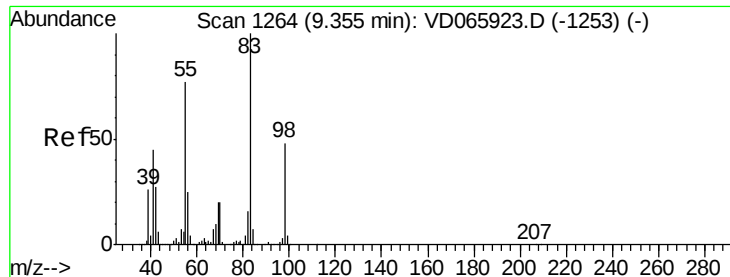
Tot Ion: 43 Resp: 6399
Ion Ratio Lower Upper
43 100
61 0.0 9.4 14.0#
70 6.3 8.3 12.5#



#38
Carbon Tetrachloride
Concen: 2.837 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 117 Resp: 18103
Ion Ratio Lower Upper
117 100
119 78.4 74.7 112.1
121 27.9 24.9 37.3

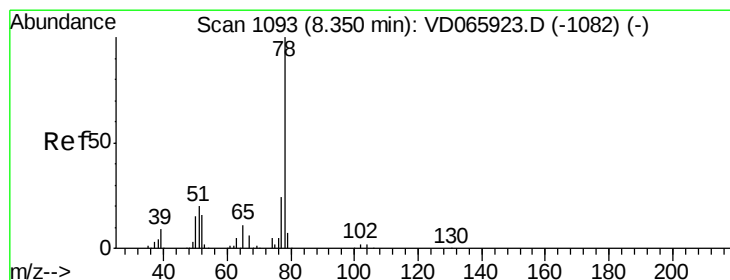
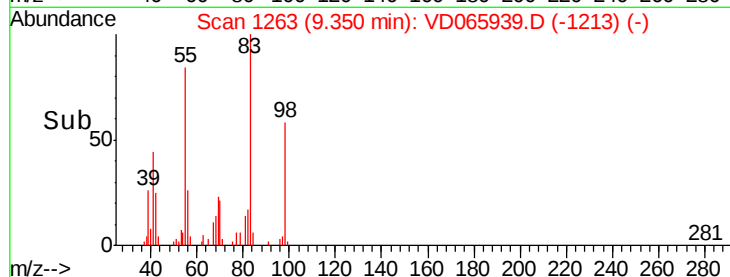
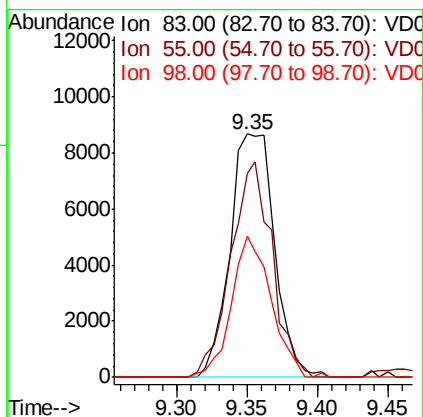
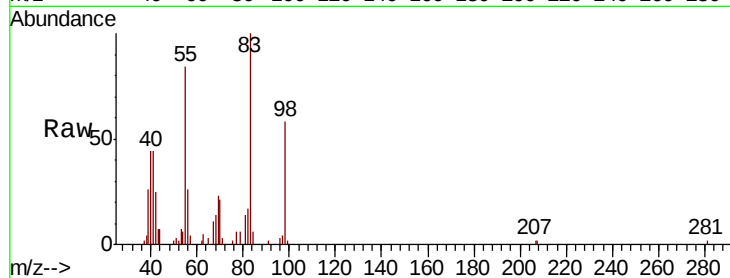




#39
Methvlcvclohexane
Concen: 2.621 ug/l
RT: 9.35 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

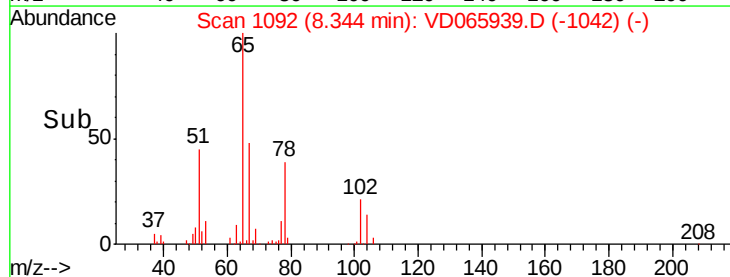
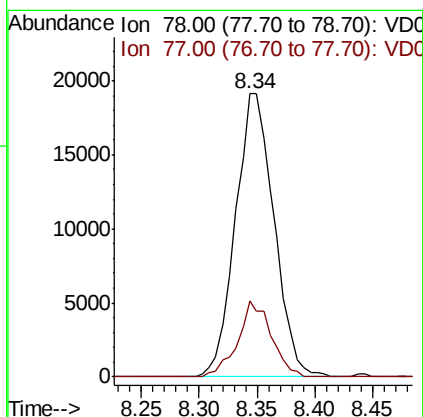
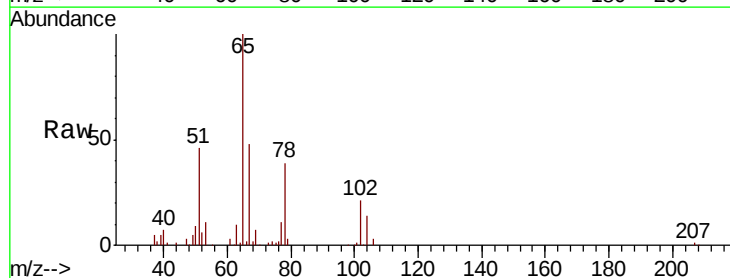
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

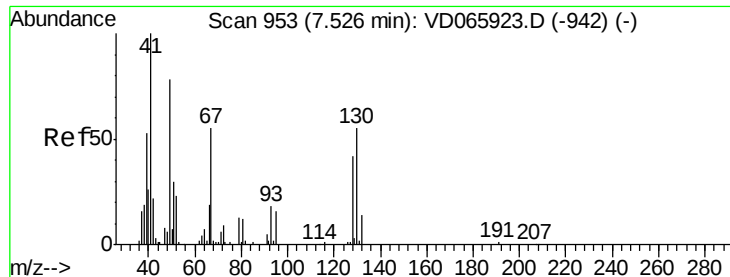
Tot Ion: 83 Resp: 19162
Ion Ratio Lower Upper
83 100
55 83.6 61.7 92.5
98 57.8 38.6 58.0



#40
Benzene
Concen: 2.704 ug/l
RT: 8.34 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 78 Resp: 44474
Ion Ratio Lower Upper
78 100
77 26.9 19.4 29.0

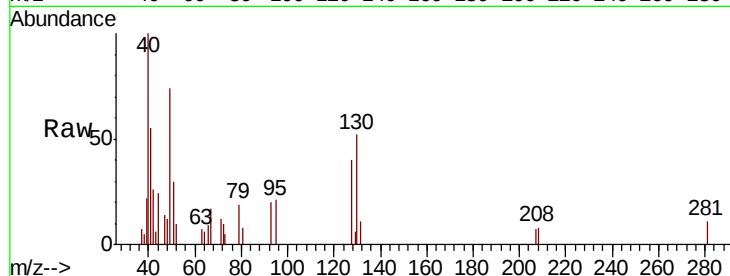




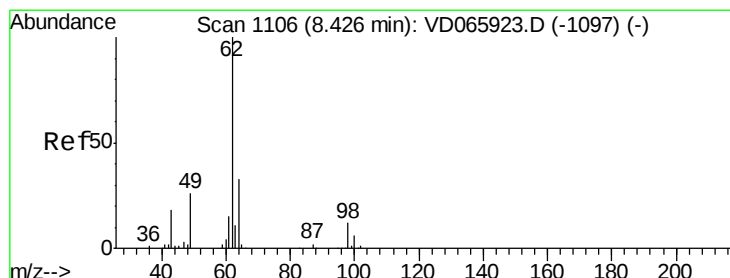
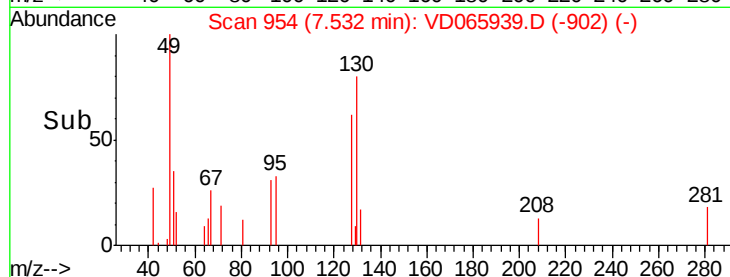
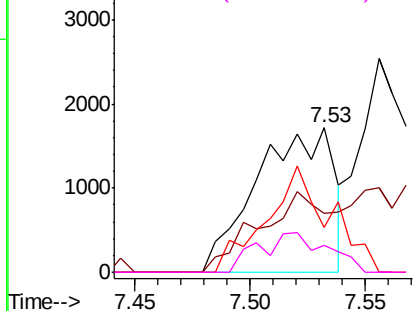
#41
Methacrylonitrile
Concen: 2.755 ug/l
RT: 7.53 min Scan# 954
Delta R.T. 0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion:	41	Resp:	3991
Ion	Ratio	Lower	Upper
41	100		
39	45.5	42.4	63.6
67	60.0	53.6	80.4
52	24.5	22.2	33.2

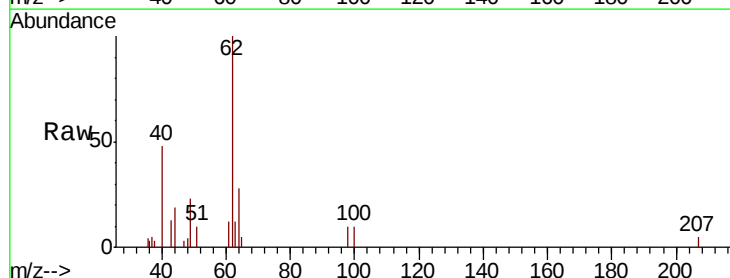


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

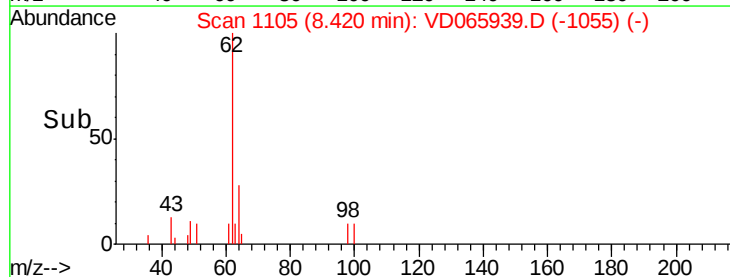
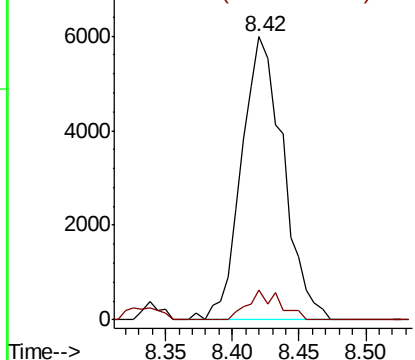


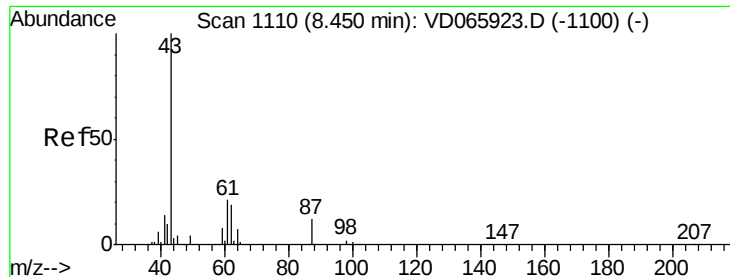
#42
1,2-Dichloroethane
Concen: 2.782 ug/l
RT: 8.42 min Scan# 1105
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion:	62	Resp:	12964
Ion	Ratio	Lower	Upper
62	100		
98	8.1	0.0	20.0



Abundance Ion 61.90 (61.60 to 62.60): VDC
Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 2.535 ug/l

RT: 8.44 min Scan# 1109

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

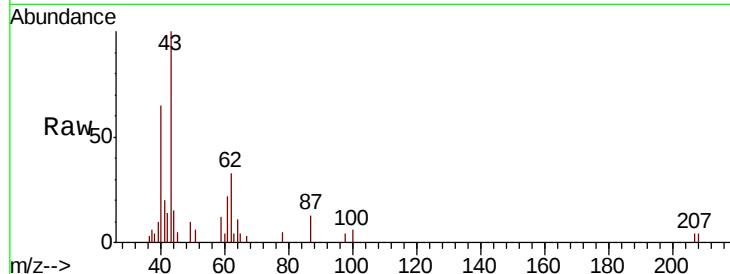
Tot Ion: 43 Resp: 11774

Ion Ratio Lower Upper

43 100

61 0.0 23.2 34.8#

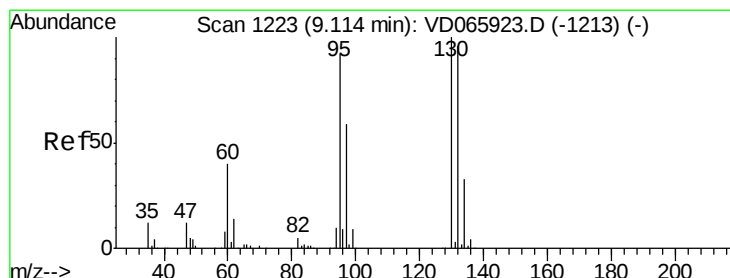
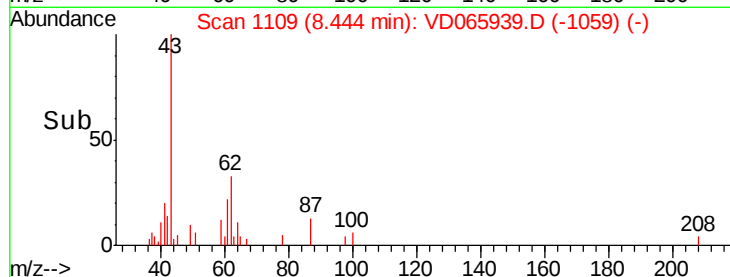
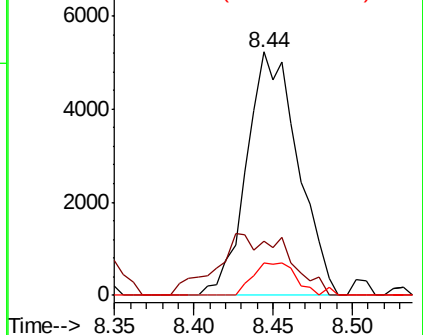
87 11.5 10.0 15.0



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 2.690 ug/l

RT: 9.10 min Scan# 1221

Delta R.T. -0.01 min

Lab File: VD065939.D

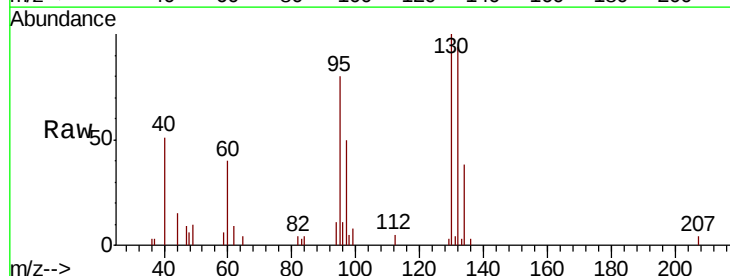
Acq: 08 Jul 2020 14:43

Tgt Ion: 130 Resp: 13003

Ion Ratio Lower Upper

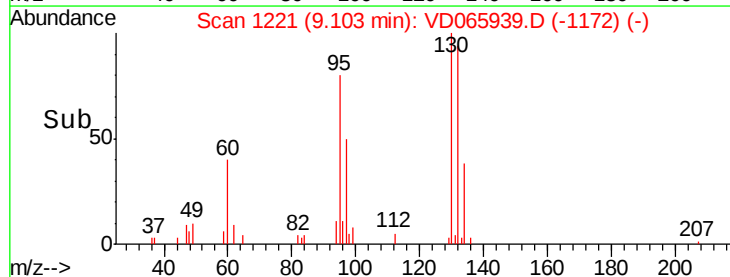
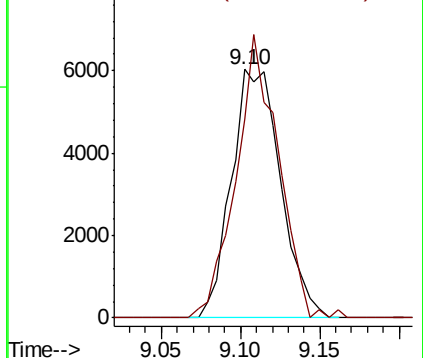
130 100

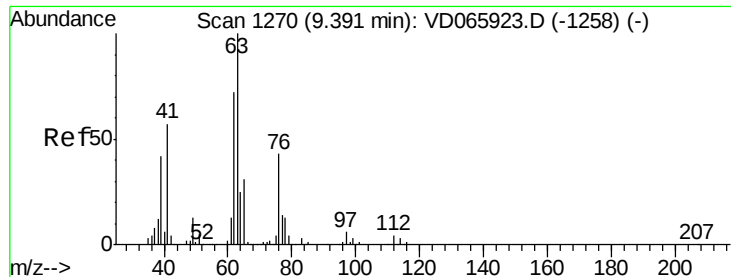
95 80.2 0.0 184.6



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 2.595 ug/l

RT: 9.38 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

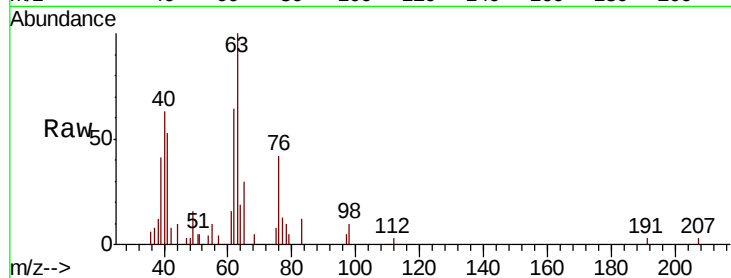
MDL-SOIL-03-QT3-2020DL

Tot Ion: 63 Resp: 10595

Ion Ratio Lower Upper

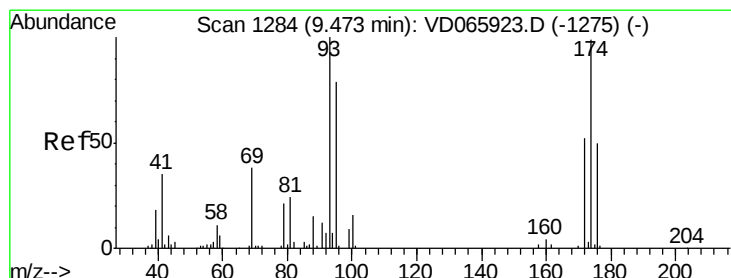
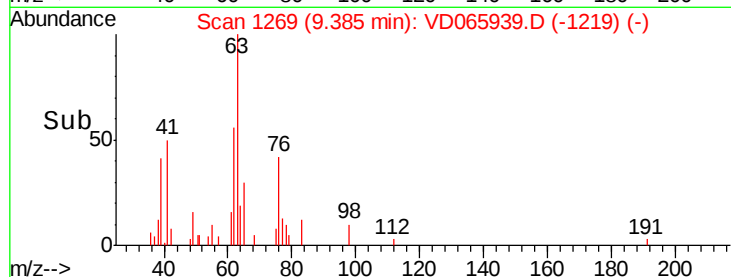
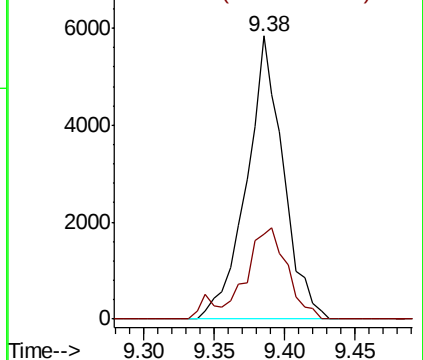
63 100

65 29.9 25.0 37.6



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 2.648 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

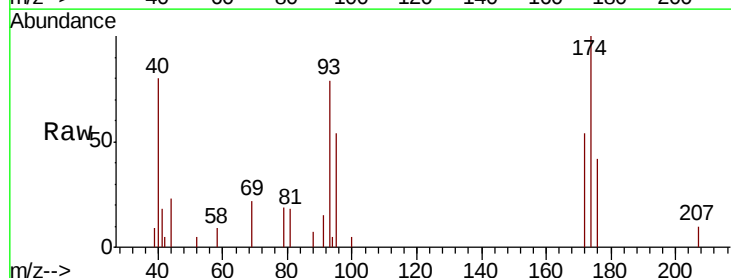
Tgt Ion: 93 Resp: 5629

Ion Ratio Lower Upper

93 100

95 76.8 68.2 102.2

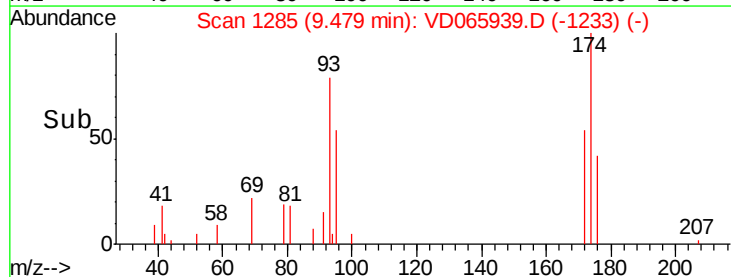
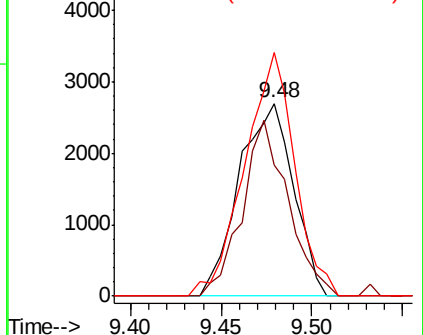
174 115.9 88.0 132.0

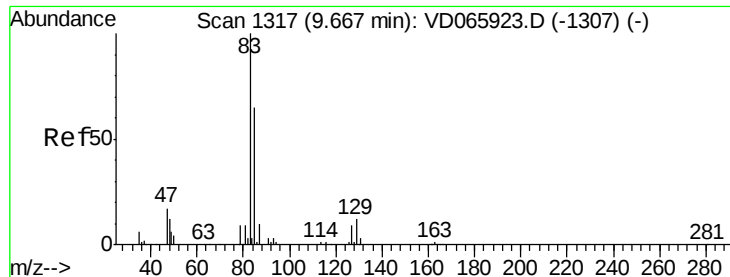


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 2.500 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

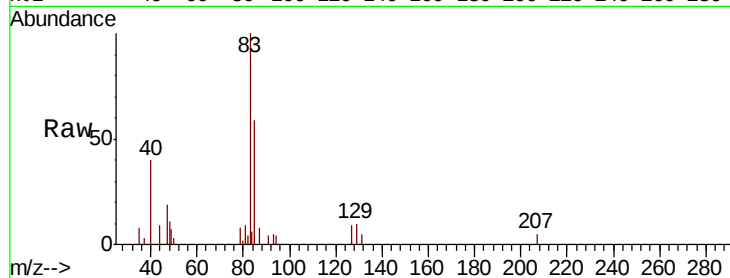
Tot Ion: 83 Resp: 14254

Ion Ratio Lower Upper

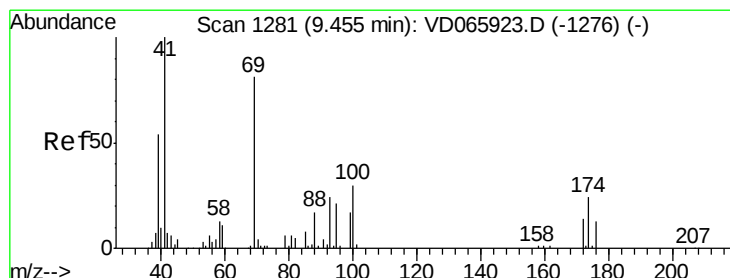
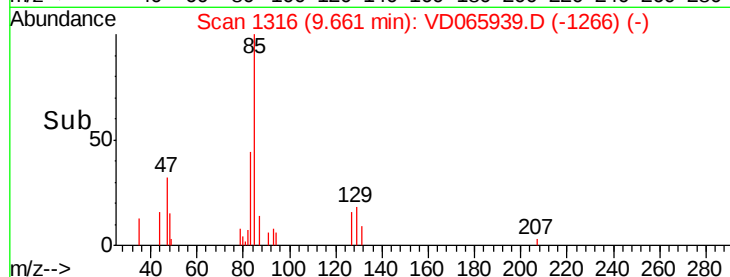
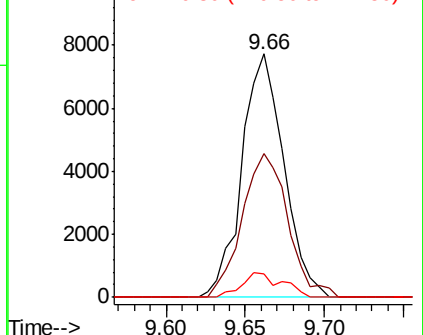
83 100

85 58.9 51.6 77.4

127 9.4 7.2 10.8



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 2.368 ug/l

RT: 9.45 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

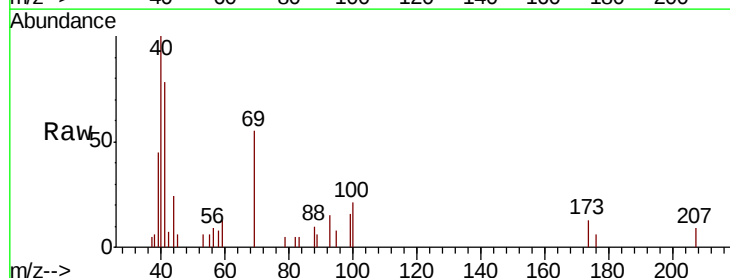
Tgt Ion: 41 Resp: 5535

Ion Ratio Lower Upper

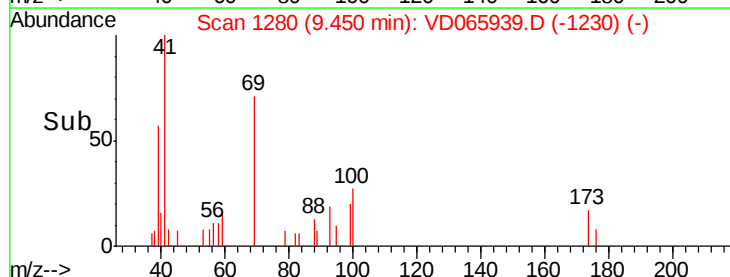
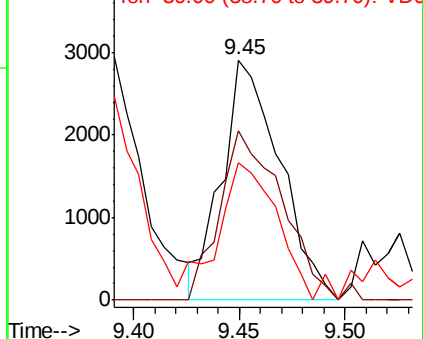
41 100

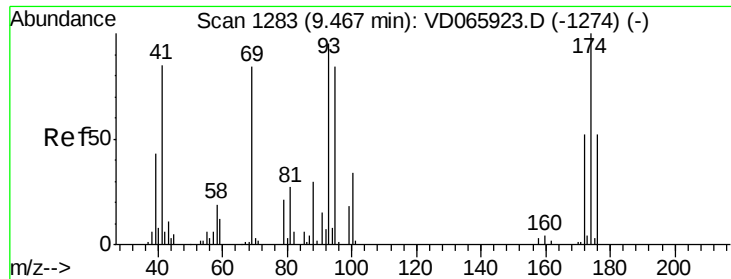
69 75.6 62.2 93.4

39 58.3 39.9 59.9



Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 39.00 (38.70 to 39.70): VDC

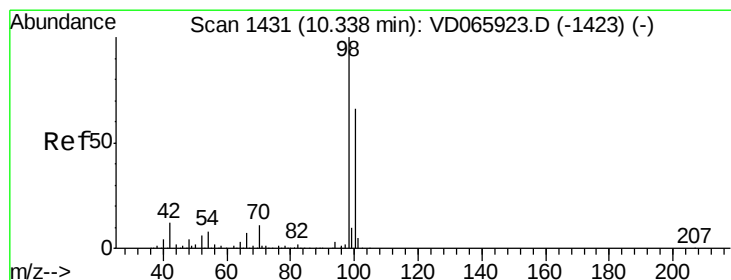
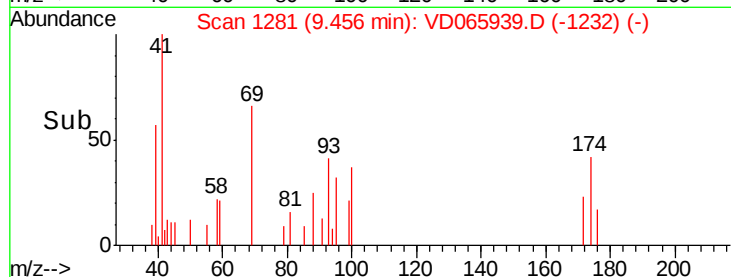
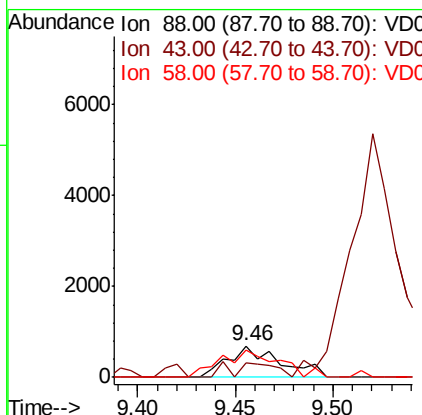
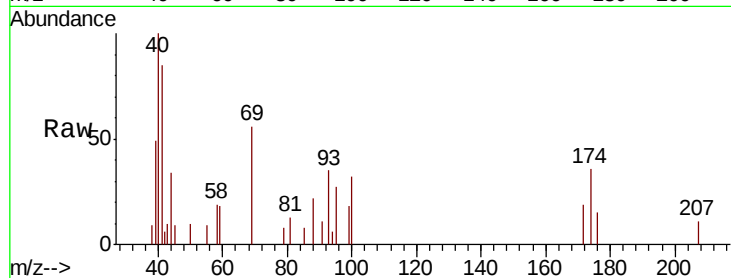




#49
1,4-Dioxane
Concen: 50.405 ug/l
RT: 9.46 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

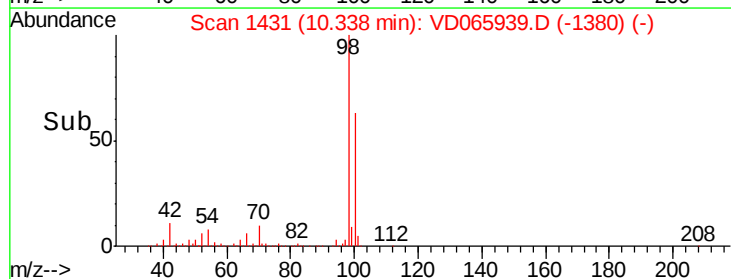
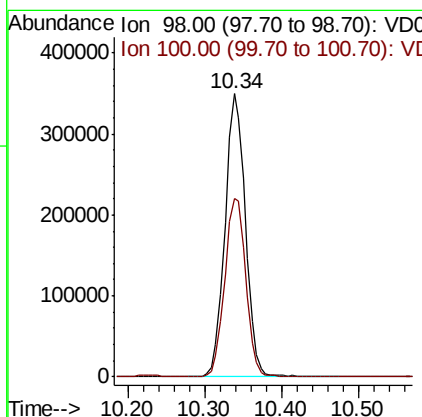
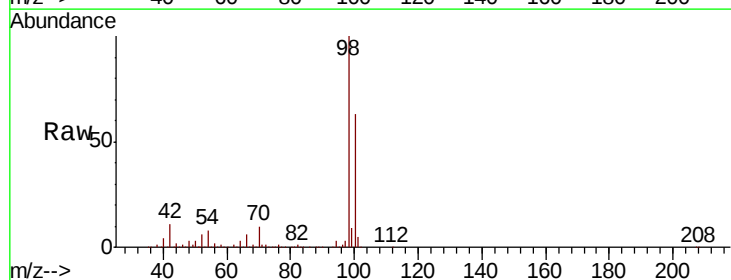
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

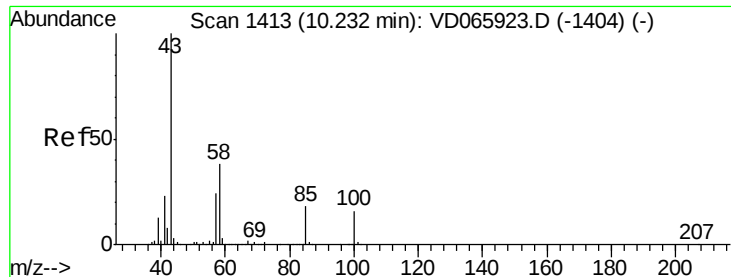
Tot Ion: 88 Resp: 1273
Ion Ratio Lower Upper
88 100
43 29.6 28.2 42.4
58 98.7 58.6 87.8#



#50
Toluene-d8
Concen: 47.614 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 98 Resp: 646100
Ion Ratio Lower Upper
98 100
100 65.2 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 11.955 ug/l

RT: 10.23 min Scan# 1412

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

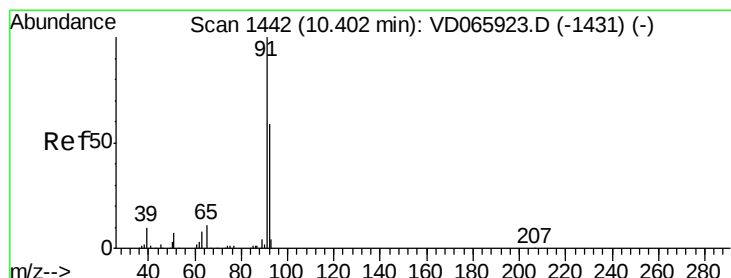
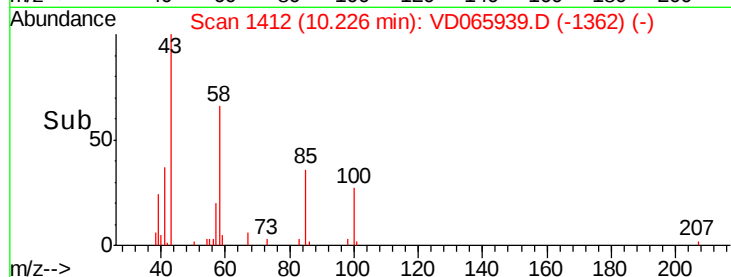
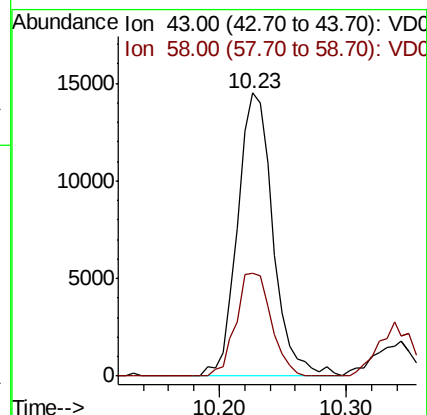
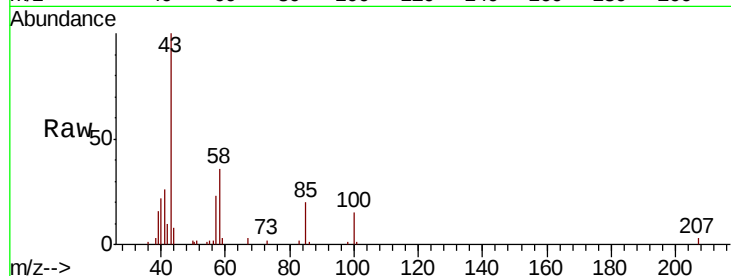
MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 28068

Ion Ratio Lower Upper

43 100

58 36.0 30.5 45.7



#52

Toluene

Concen: 2.843 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VD065939.D

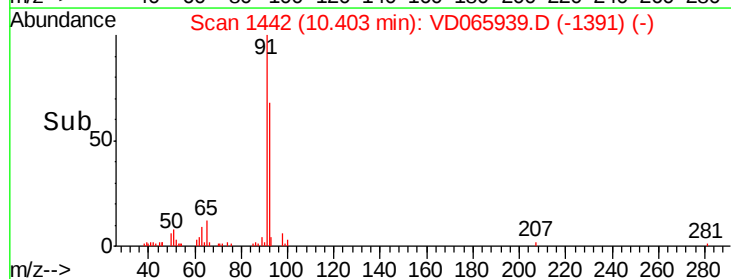
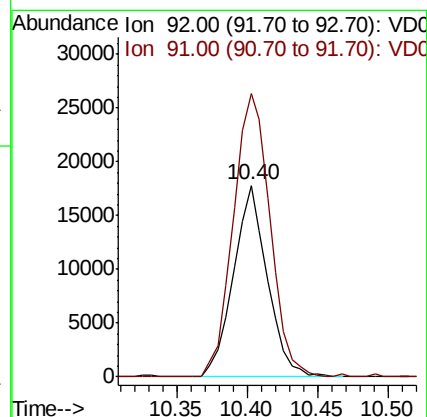
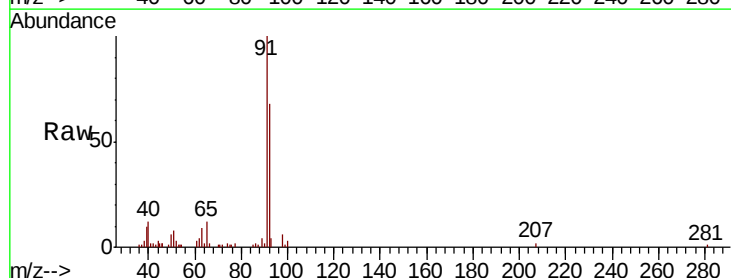
Acq: 08 Jul 2020 14:43

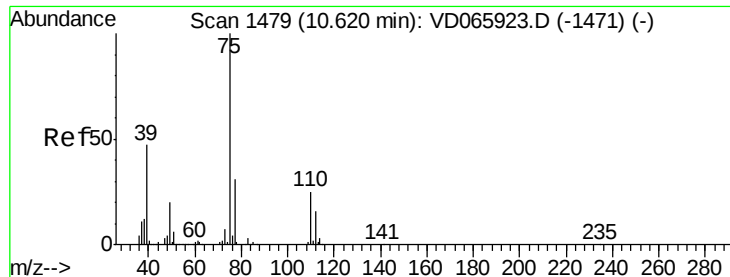
Tgt Ion: 92 Resp: 29755

Ion Ratio Lower Upper

92 100

91 160.6 136.0 204.0





#53

t-1,3-Dichloropropene

Concen: 2.608 ug/l

RT: 10.61 min Scan# 1478

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

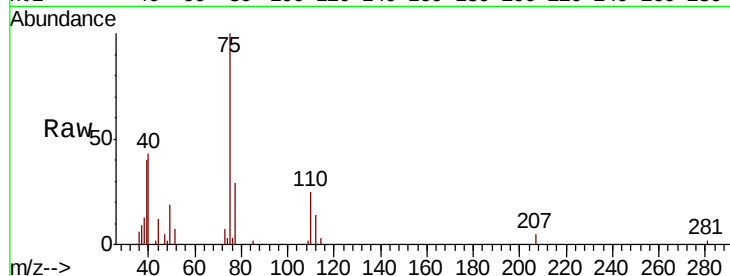
MDL-SOIL-03-QT3-2020DL

Tot Ion: 75 Resp: 13981

Ion Ratio Lower Upper

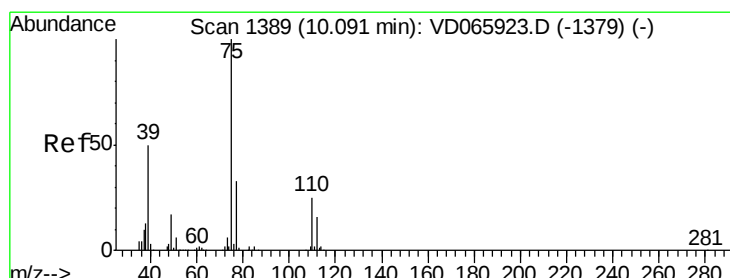
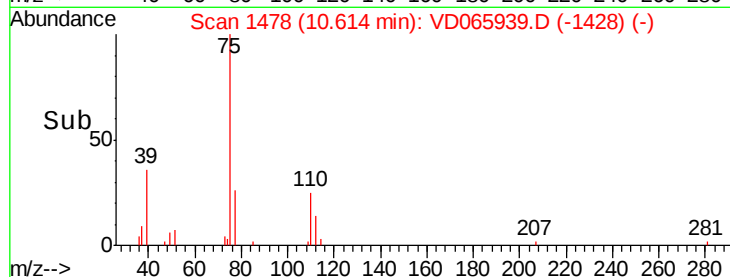
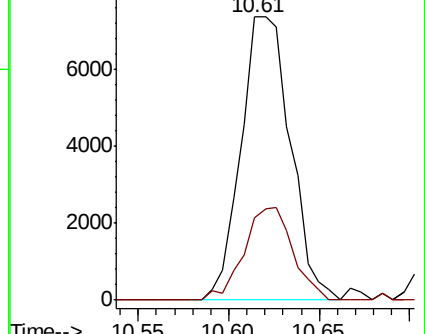
75 100

77 29.1 25.1 37.7



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#54

cis-1,3-Dichloropropene

Concen: 2.362 ug/l

RT: 10.08 min Scan# 1388

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

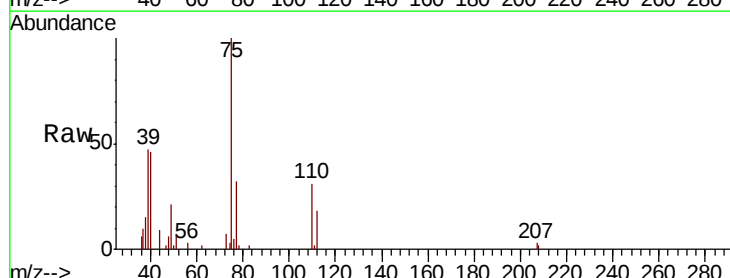
Tgt Ion: 75 Resp: 15301

Ion Ratio Lower Upper

75 100

77 31.9 26.6 39.8

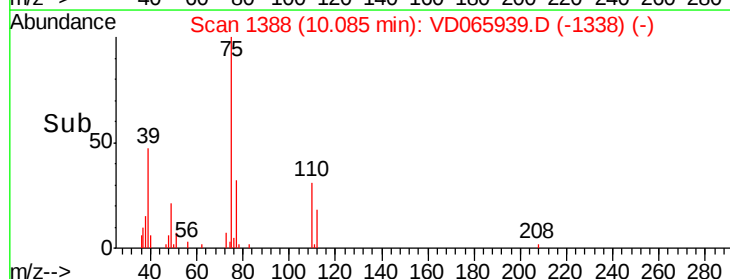
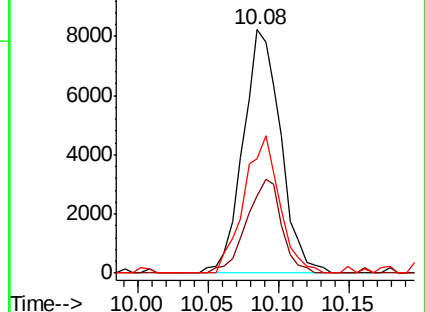
39 46.9 39.6 59.4

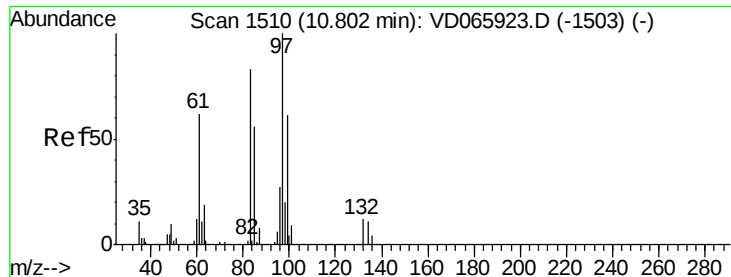


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC

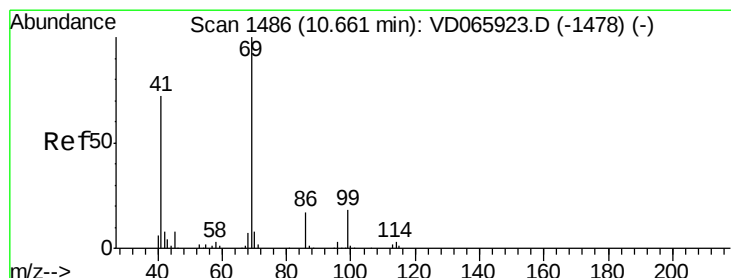
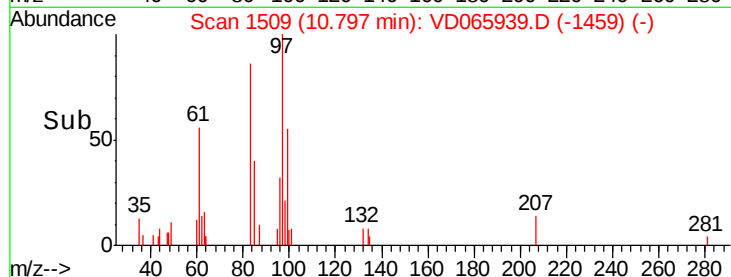
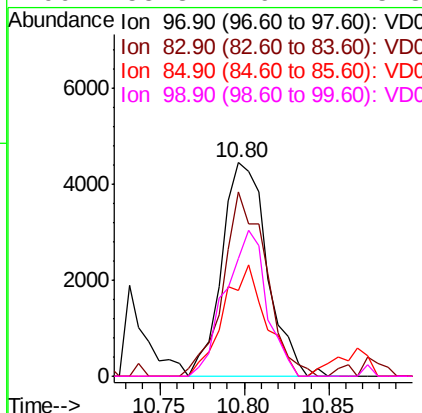
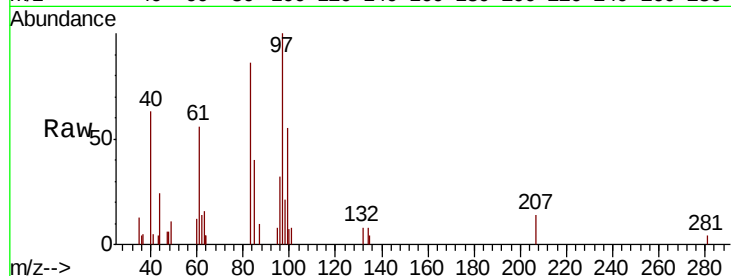




#55
 1,1,2-Trichloroethane
 Concen: 2.842 ug/l
 RT: 10.80 min Scan# 1509
 Delta R.T. -0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

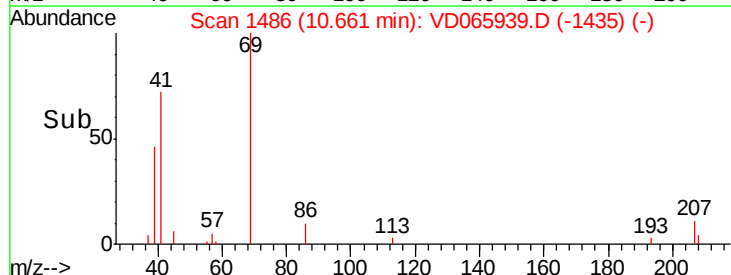
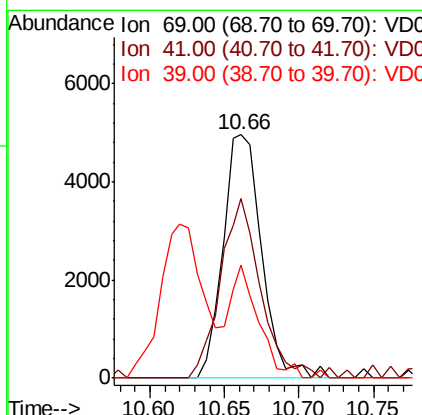
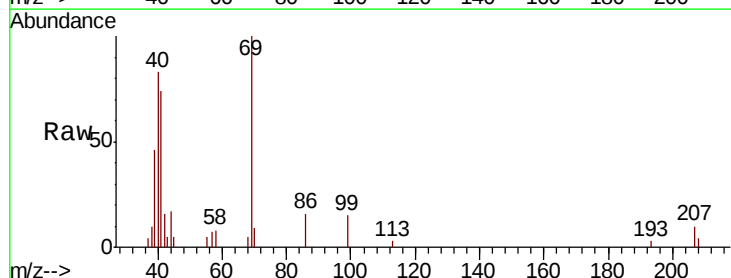
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

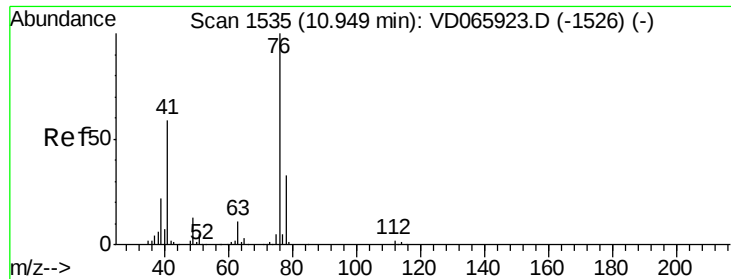
Tot Ion: 97 Resp: 8323
 Ion Ratio Lower Upper
 97 100
 83 82.6 66.9 100.3
 85 40.4 44.5 66.7#
 99 55.3 49.2 73.8



#56
 Ethyl methacrylate
 Concen: 2.509 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion: 69 Resp: 8975
 Ion Ratio Lower Upper
 69 100
 41 76.1 56.5 84.7
 39 37.1 29.2 43.8





#57

1,3-Dichloropropane

Concen: 2.588 ug/l

RT: 10.94 min Scan# 1534

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

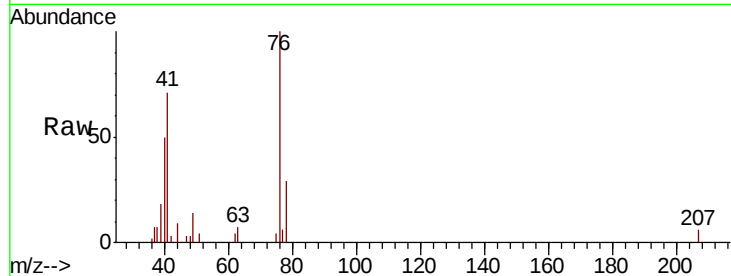
MDL-SOIL-03-QT3-2020DL

Tot Ion: 76 Resp: 13253

Ion Ratio Lower Upper

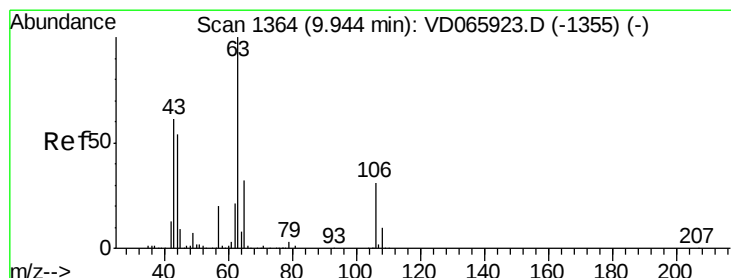
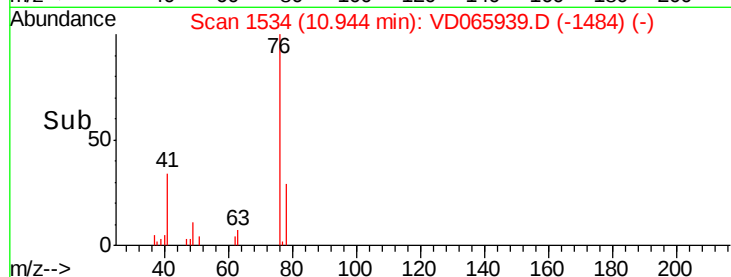
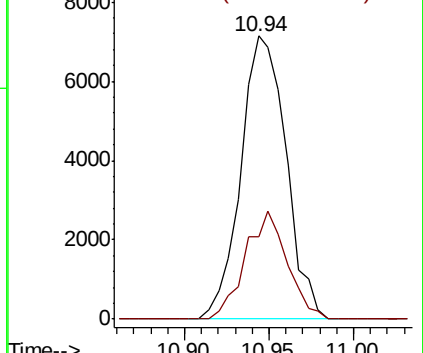
76 100

78 35.2 25.8 38.6



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 13.371 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VD065939.D

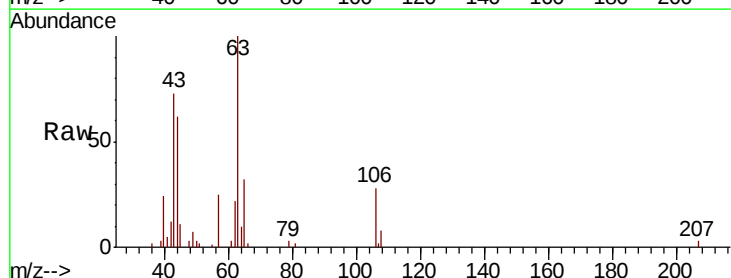
Acq: 08 Jul 2020 14:43

Tgt Ion: 63 Resp: 23163

Ion Ratio Lower Upper

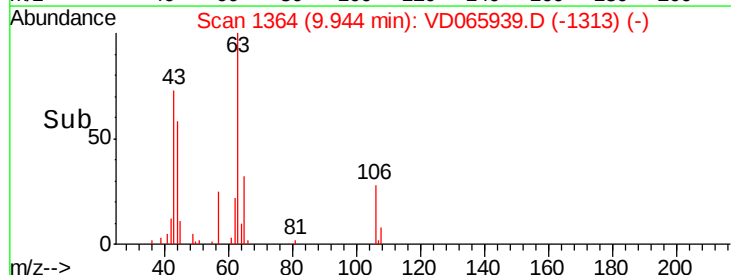
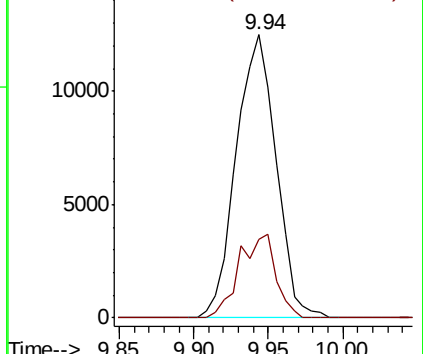
63 100

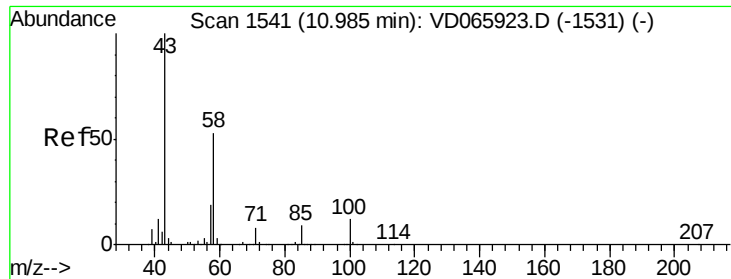
106 27.2 23.8 35.6



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V

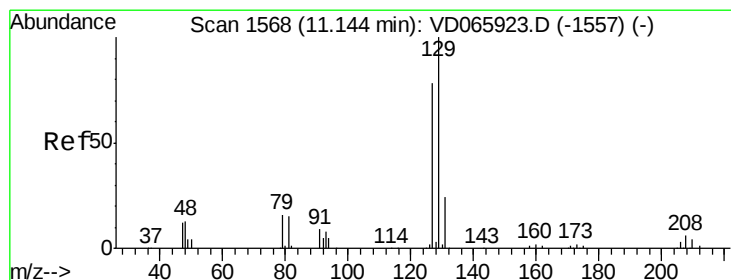
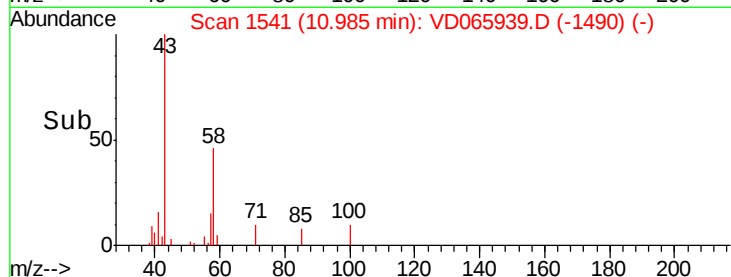
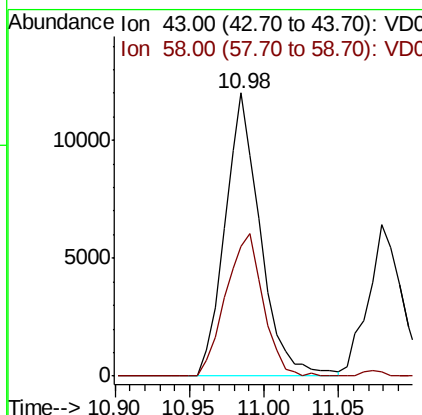
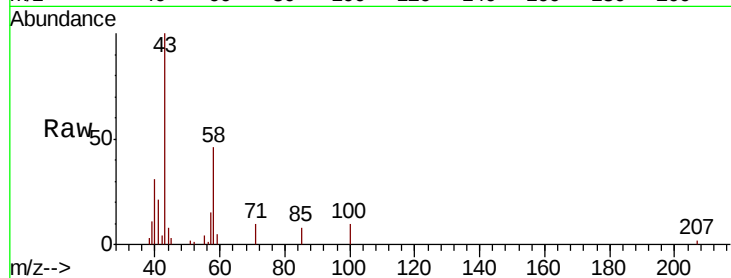




#59
2-Hexanone
Concen: 12.273 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

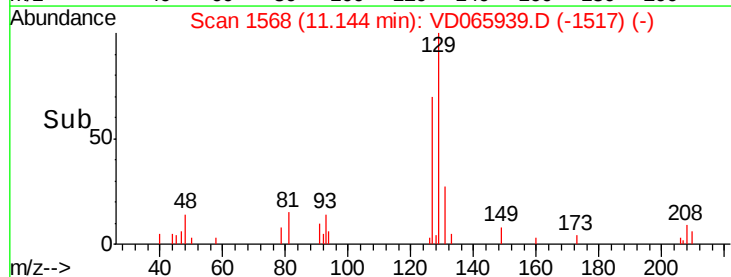
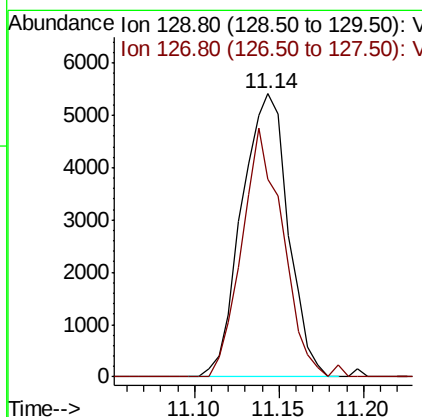
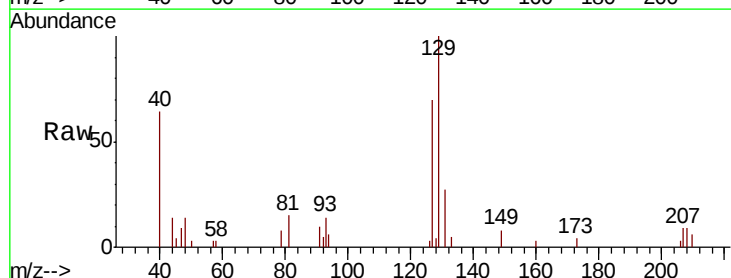
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

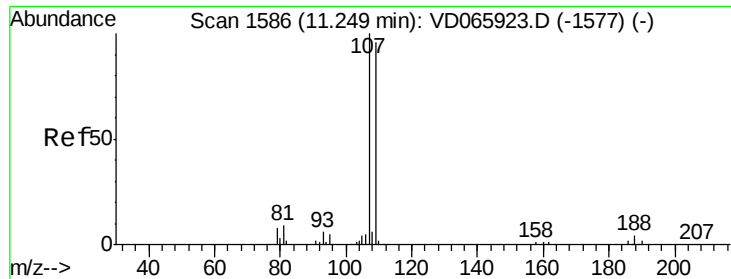
Tot Ion: 43 Resp: 19816
Ion Ratio Lower Upper
43 100
58 52.9 26.6 79.8



#60
Dibromochloromethane
Concen: 2.590 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 129 Resp: 10361
Ion Ratio Lower Upper
129 100
127 77.0 38.8 116.4





#61

1,2-Dibromoethane

Concen: 2.522 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

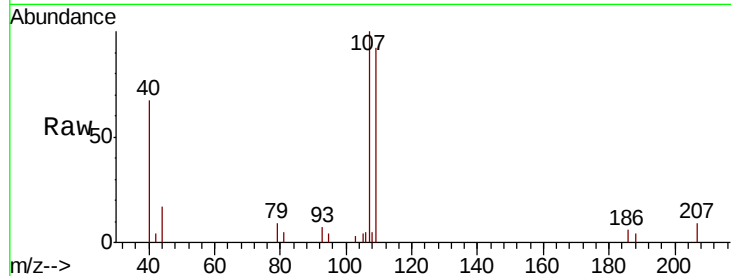
MDL-SOIL-03-QT3-2020DL

Tot Ion: 107 Resp: 7364

Ion Ratio Lower Upper

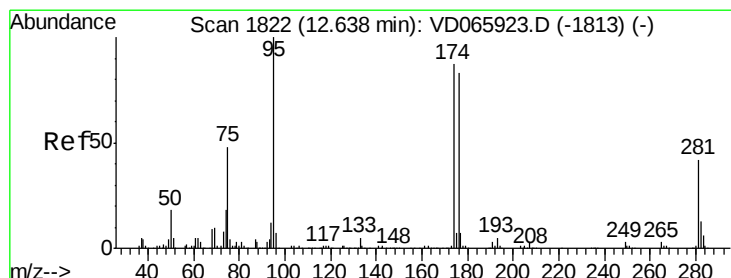
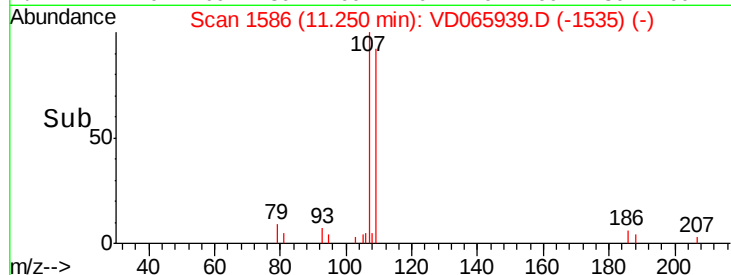
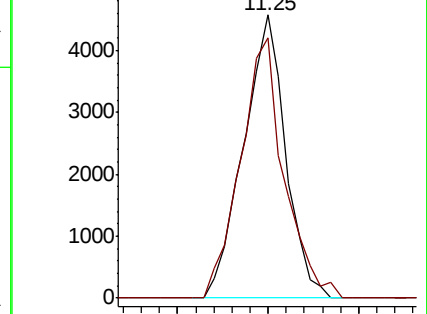
107 100

109 95.1 75.4 113.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 47.863 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

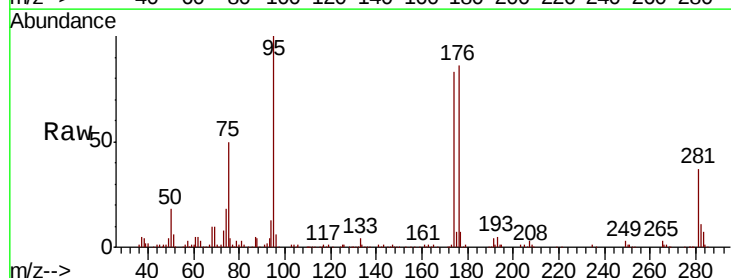
Tgt Ion: 95 Resp: 223032

Ion Ratio Lower Upper

95 100

174 88.3 0.0 169.4

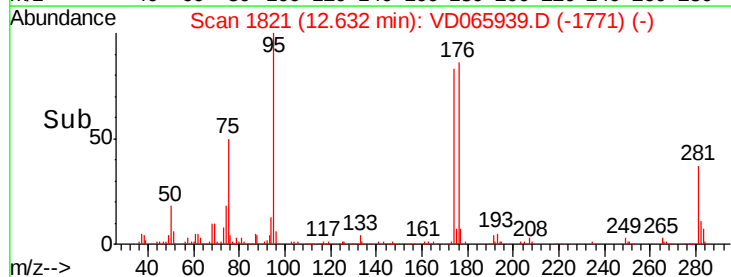
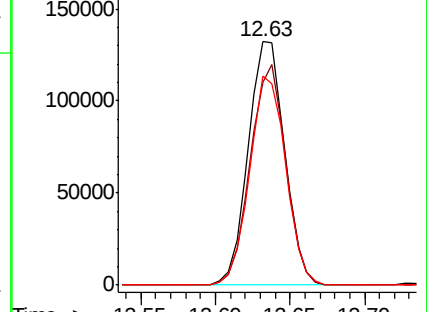
176 85.2 0.0 164.0

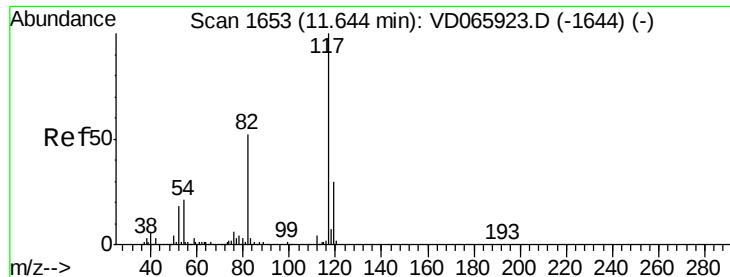


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

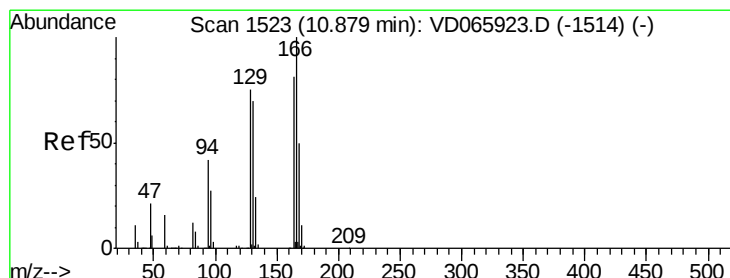
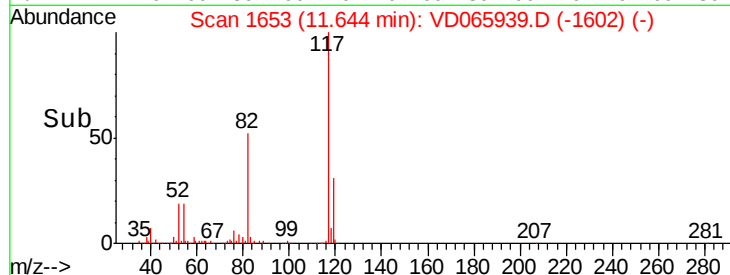
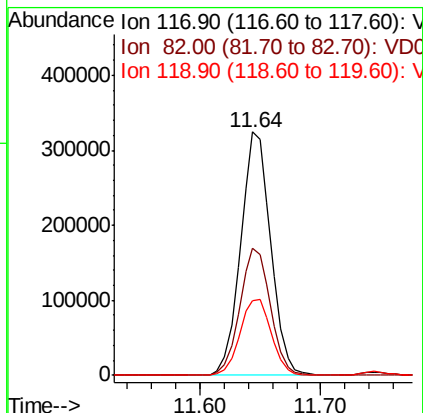
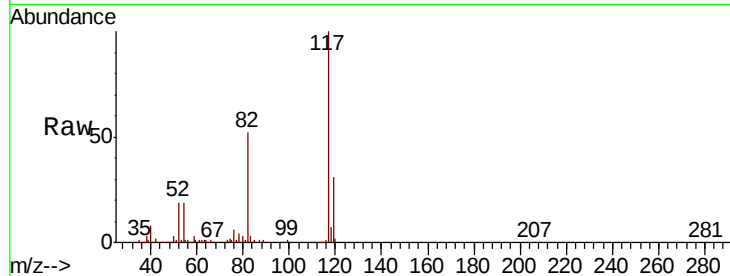




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

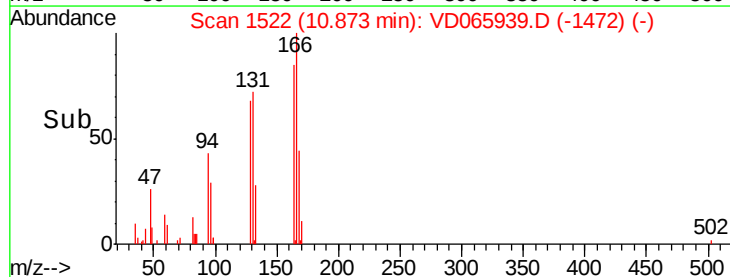
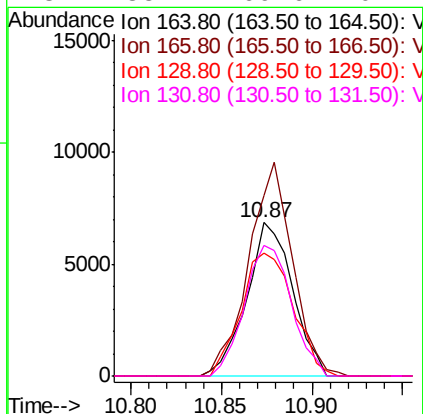
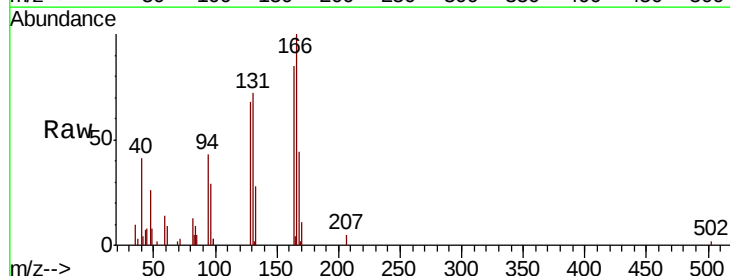
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

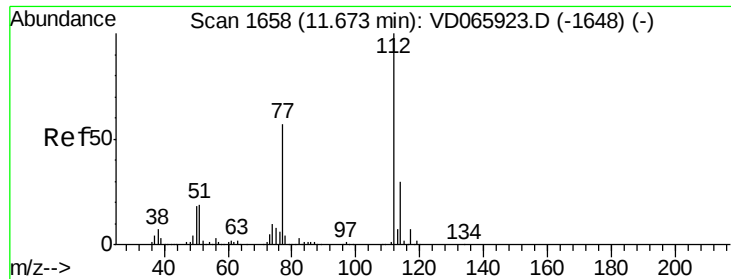
Tot Ion:117 Resp: 562535
Ion Ratio Lower Upper
117 100
82 52.4 41.8 62.8
119 30.6 24.3 36.5



#64
Tetrachloroethene
Concen: 2.943 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion:164 Resp: 12041
Ion Ratio Lower Upper
164 100
166 118.0 99.0 148.4
129 79.8 73.9 110.9
131 85.4 69.6 104.4

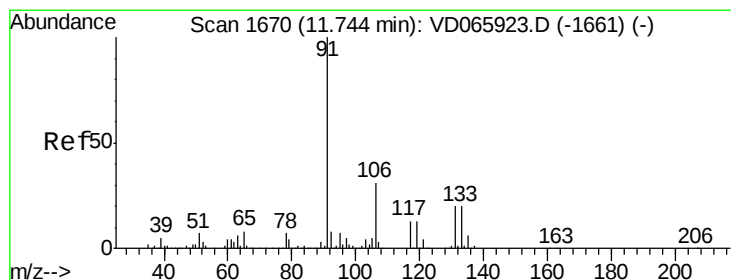
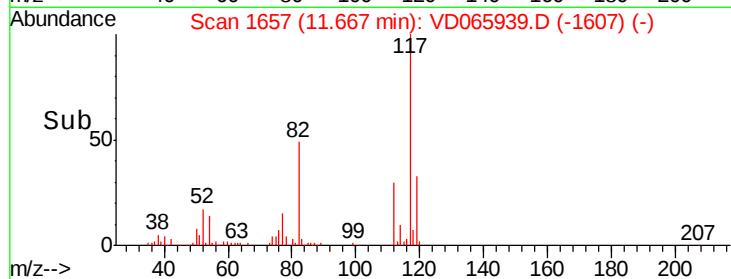
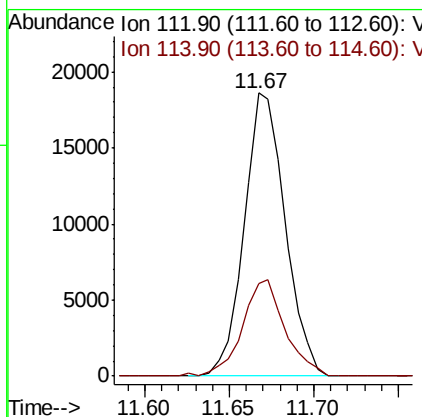
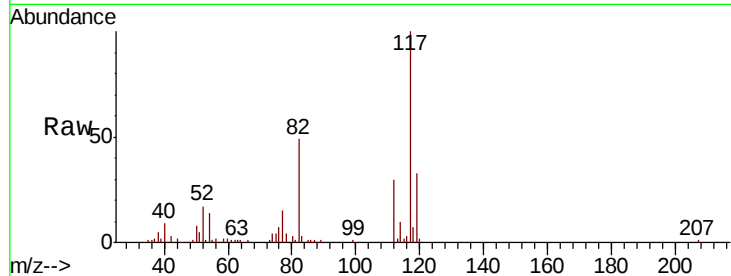




#65
Chlorobenzene
Concen: 2.766 ug/l
RT: 11.67 min Scan# 1657
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

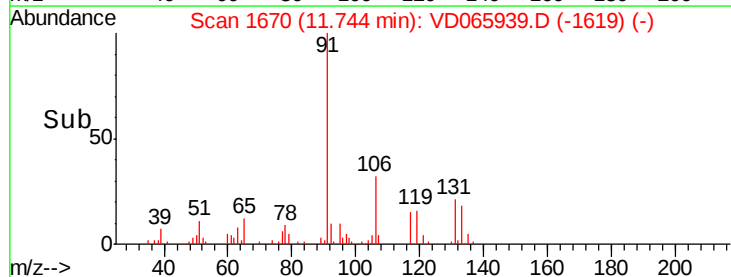
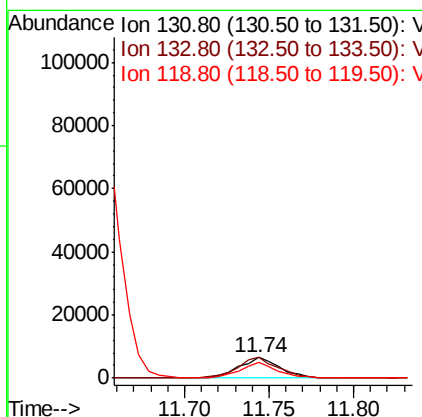
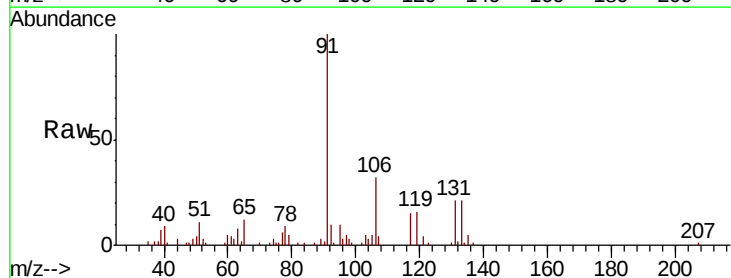
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

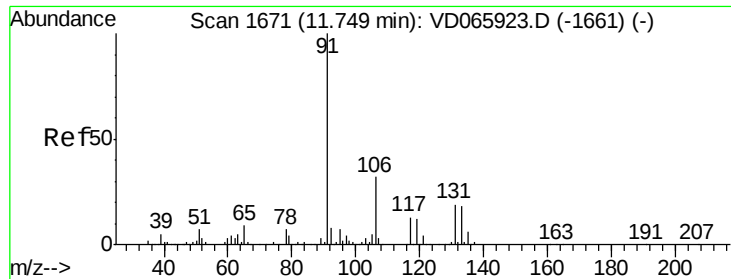
Tot Ion:112 Resp: 31359
Ion Ratio Lower Upper
112 100
114 32.7 24.2 36.4



#66
1,1,1,2-Tetrachloroethane
Concen: 2.526 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion:131 Resp: 10712
Ion Ratio Lower Upper
131 100
133 104.2 47.9 143.6
119 70.6 31.9 95.9

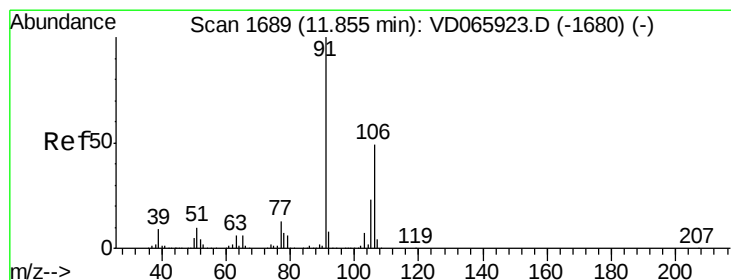
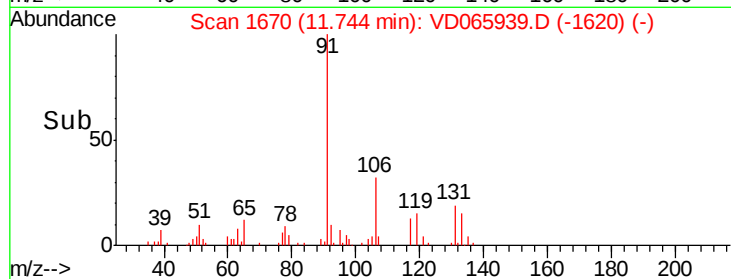
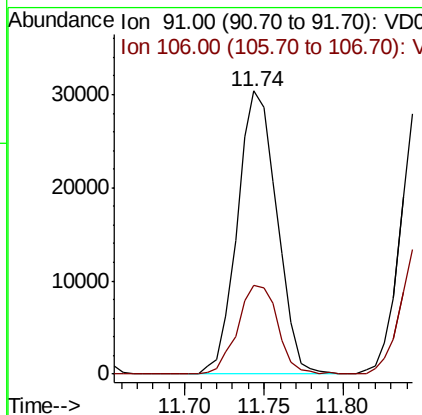
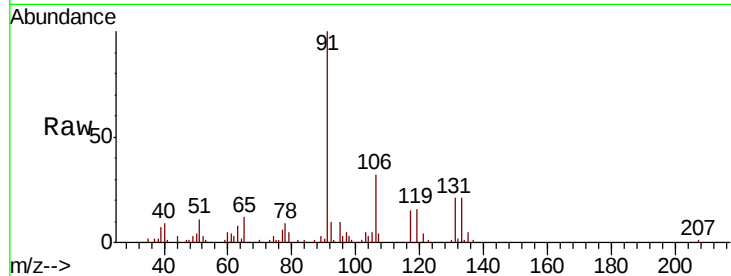




#67
Ethyl Benzene
Concen: 2.610 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

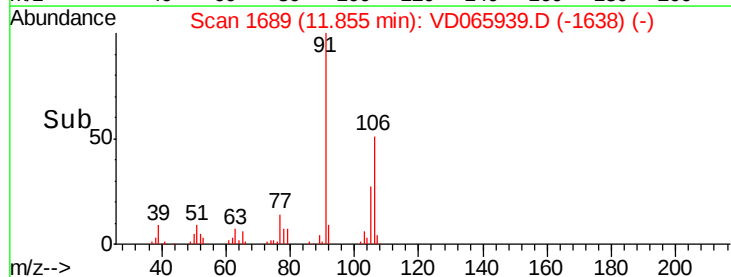
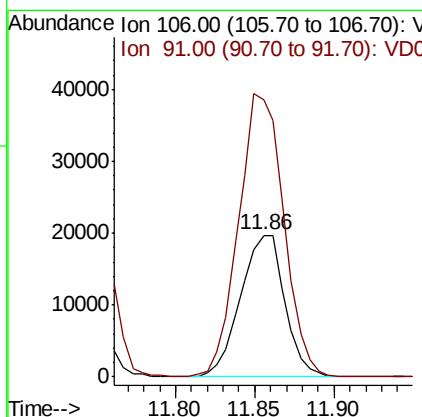
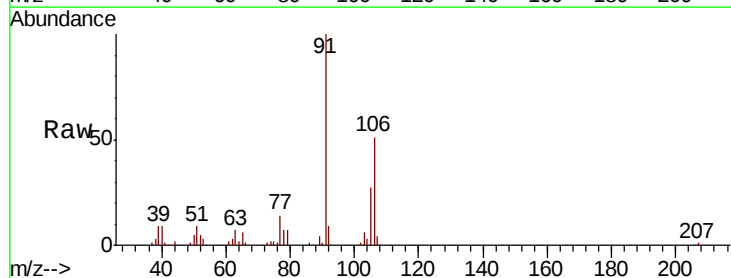
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

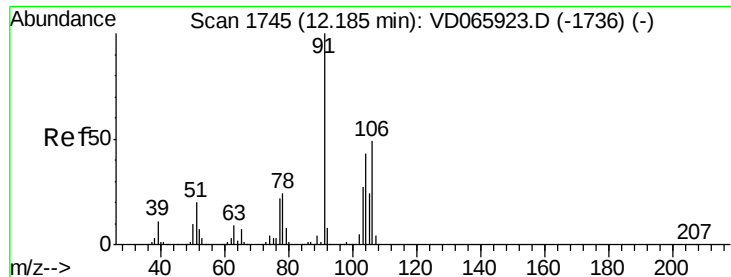
Tot Ion: 91 Resp: 52557
Ion Ratio Lower Upper
91 100
106 31.6 25.2 37.8



#68
m/p-Xylenes
Concen: 5.010 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 106 Resp: 38335
Ion Ratio Lower Upper
106 100
91 203.7 158.2 237.2

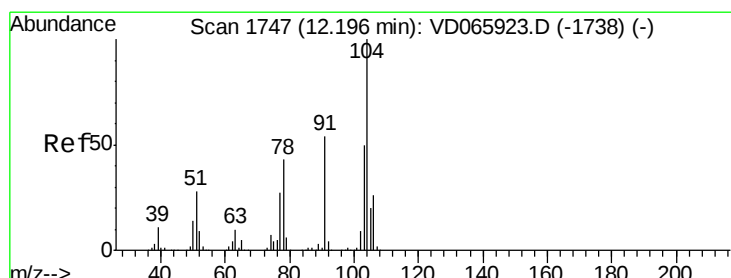
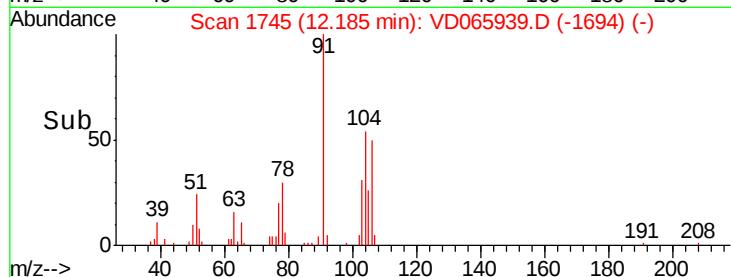
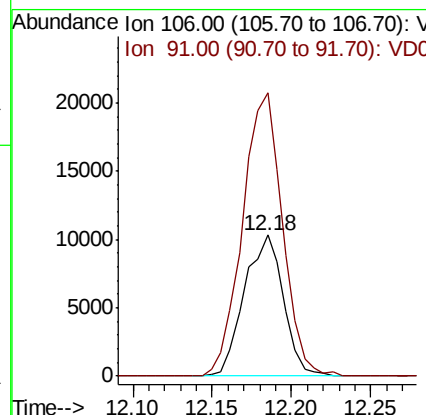
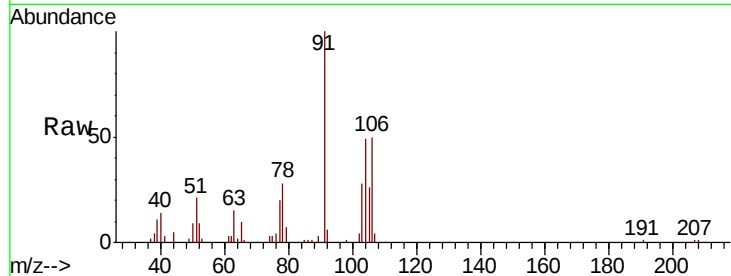




#69
o-Xylene
Concen: 2.531 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

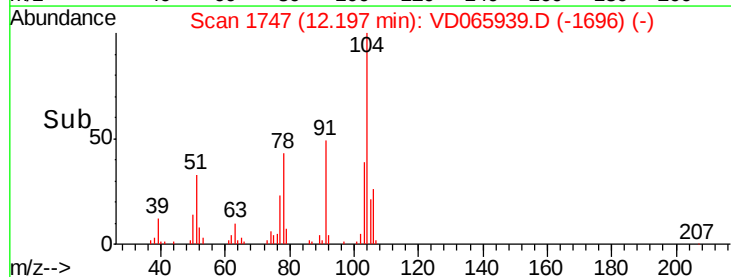
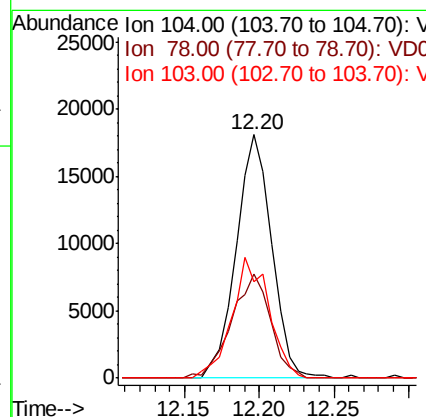
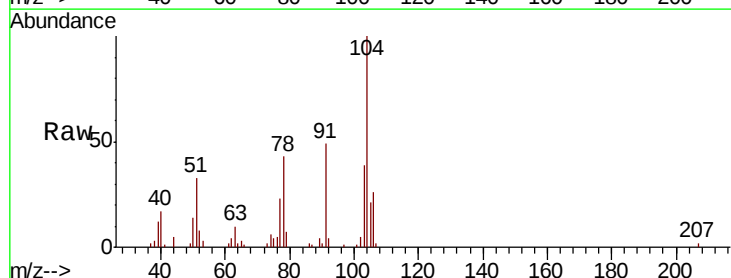
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

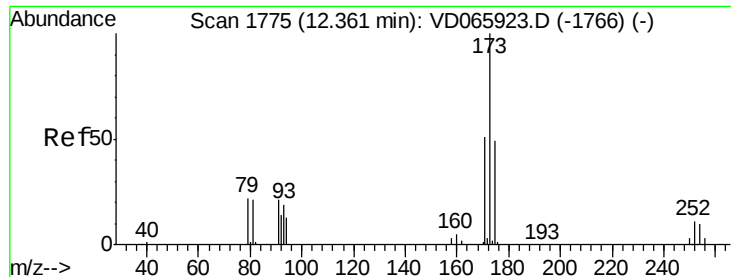
Tot Ion:106 Resp: 17641
Ion Ratio Lower Upper
106 100
91 205.2 104.1 312.2



#70
Styrene
Concen: 2.488 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion:104 Resp: 29932
Ion Ratio Lower Upper
104 100
78 47.2 38.8 58.2
103 51.7 43.6 65.4





#71

Bromoform

Concen: 2.690 ug/l

RT: 12.36 min Scan# 1775

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

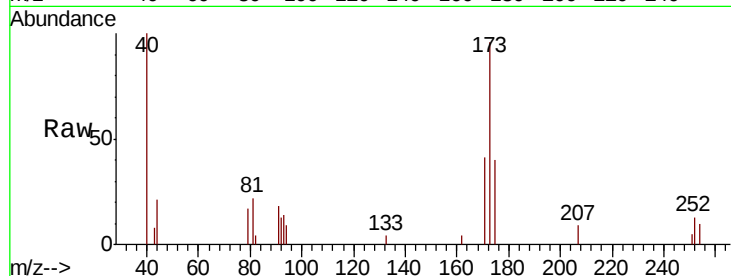
Tot Ion:173 Resp: 6453

Ion Ratio Lower Upper

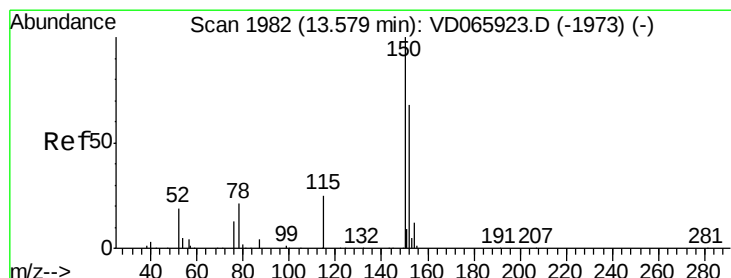
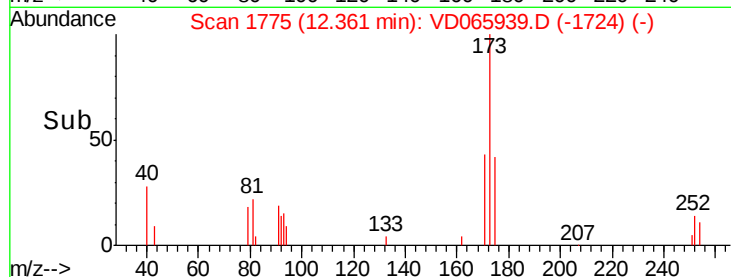
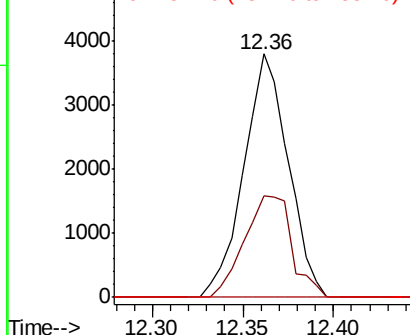
173 100

175 44.5 24.2 72.6

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

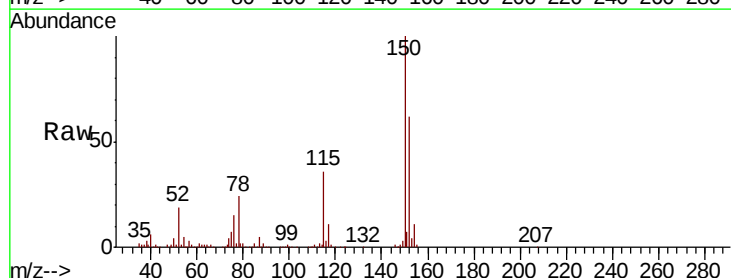
Tgt Ion:152 Resp: 271541

Ion Ratio Lower Upper

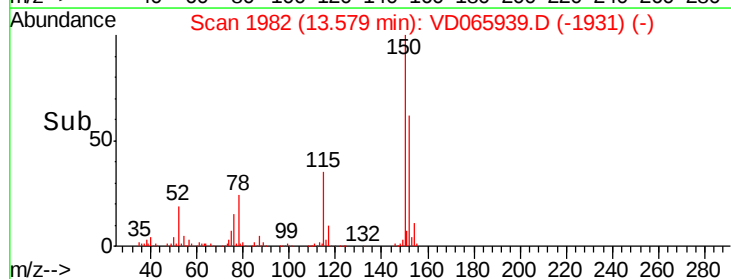
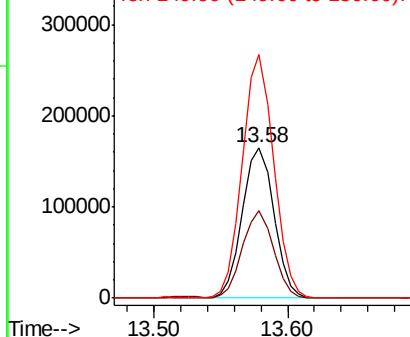
152 100

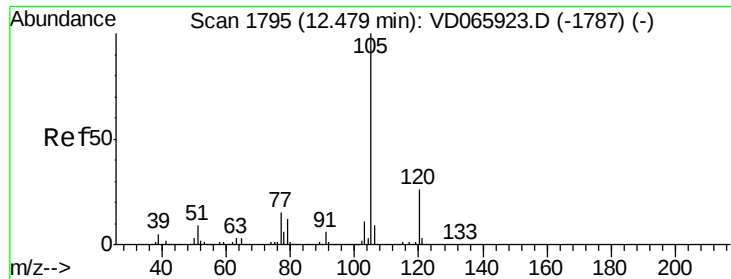
115 56.6 27.8 83.3

150 160.1 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.552 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

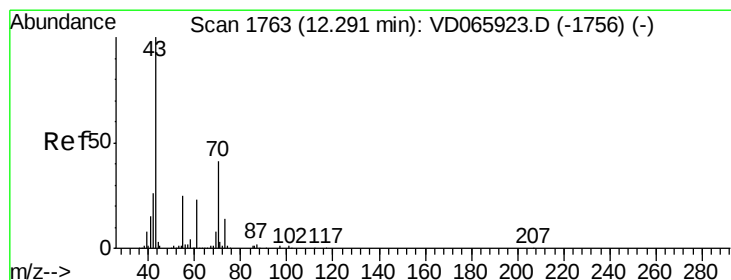
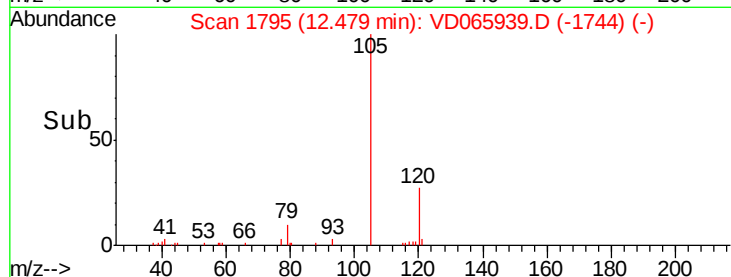
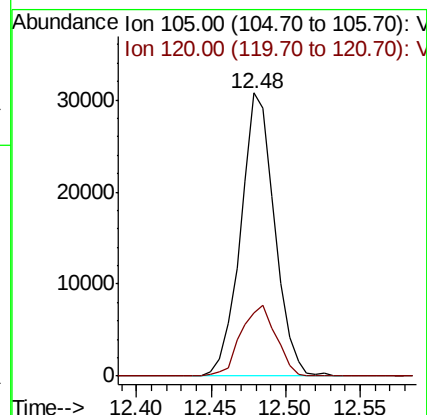
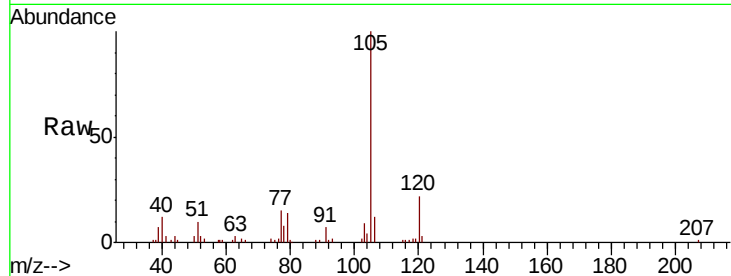
MDL-SOIL-03-QT3-2020DL

Tot Ion: 105 Resp: 48358

Ion Ratio Lower Upper

105 100

120 26.1 13.3 39.8



#74

N-ethyl acetate

Concen: 2.177 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Tgt Ion: 43 Resp: 9256

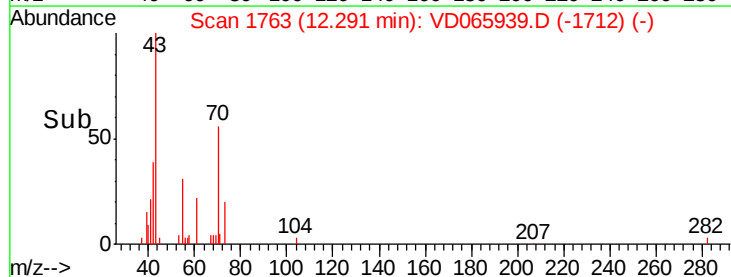
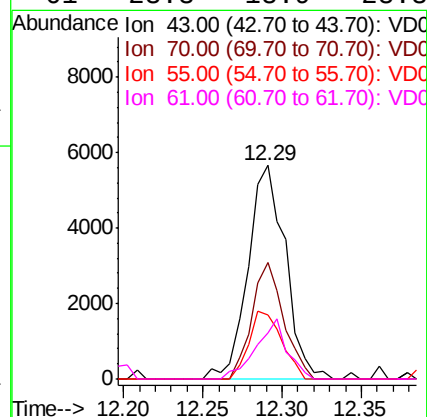
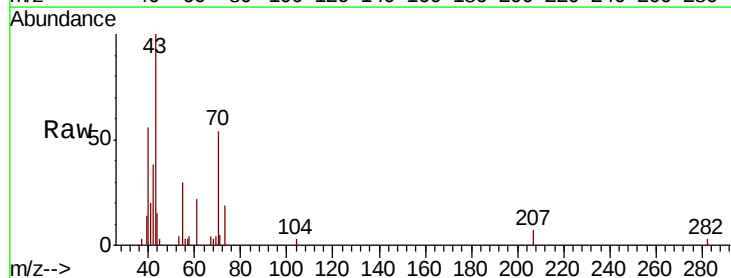
Ion Ratio Lower Upper

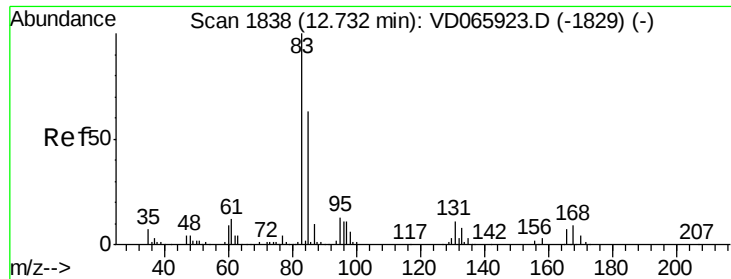
43 100

70 46.4 33.6 50.4

55 27.9 20.1 30.1

61 23.3 18.9 28.3





#75

1,1,2,2-Tetrachloroethane

Concen: 2.686 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

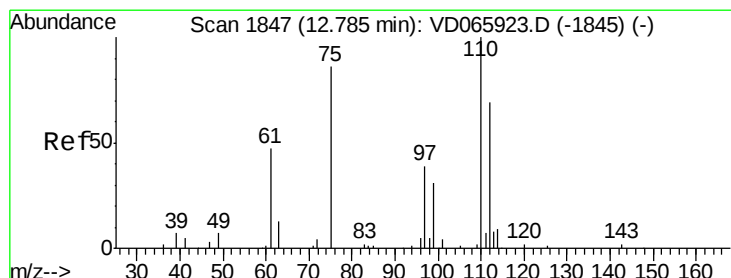
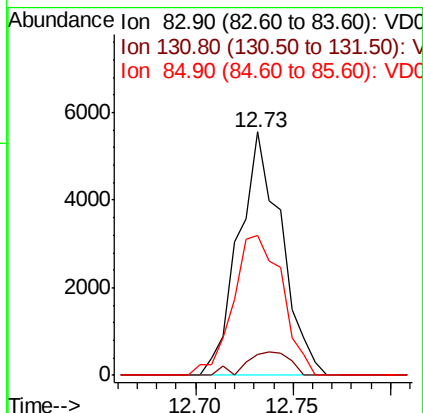
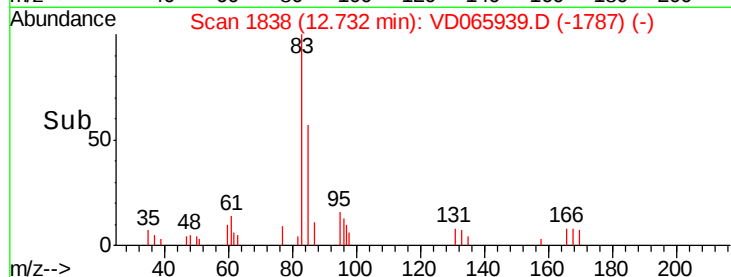
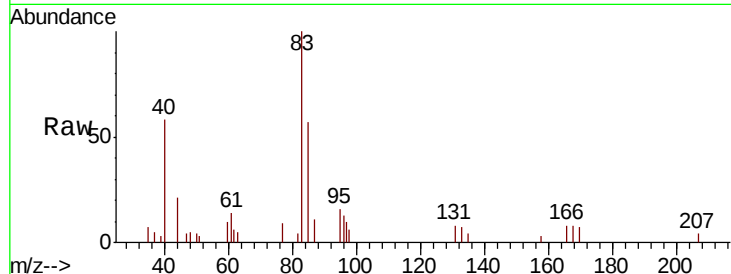
Tot Ion: 83 Resp: 8451

Ion Ratio Lower Upper

83 100

131 9.9 5.6 16.8

85 66.0 32.6 98.0



#76

1,2,3-Trichloropropane

Concen: 4.877 ug/l

RT: 12.78 min Scan# 1847

Delta R.T. 0.00 min

Lab File: VD065939.D

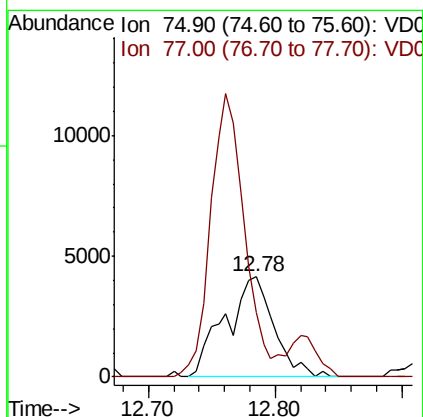
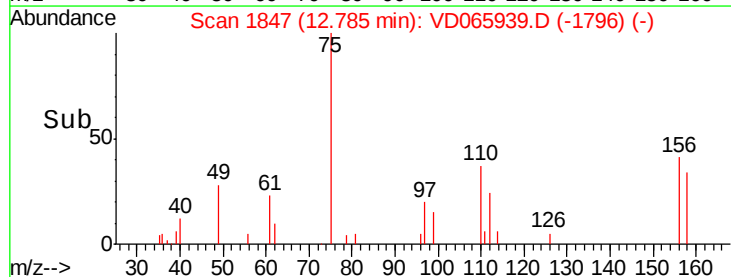
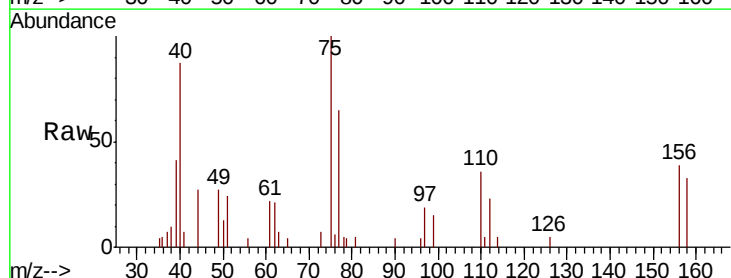
Acq: 08 Jul 2020 14:43

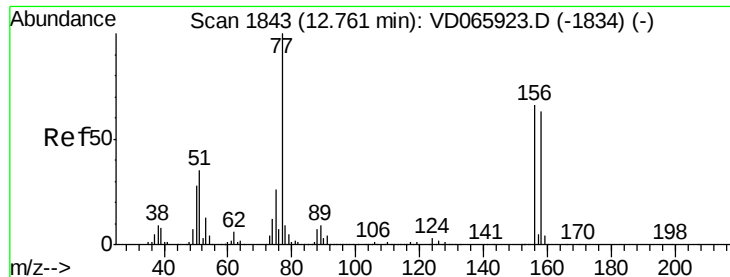
Tgt Ion: 75 Resp: 11109

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

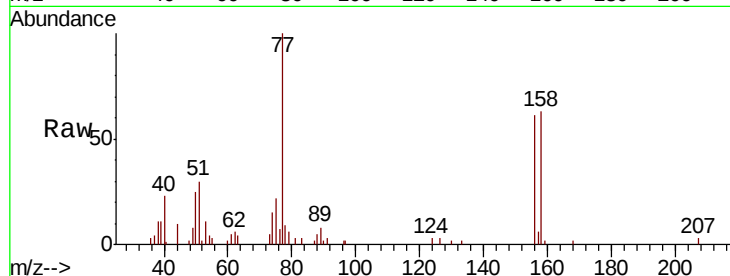




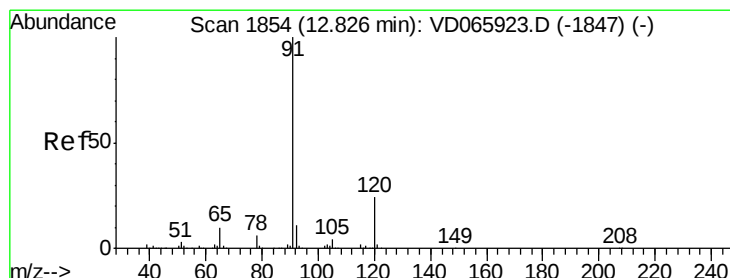
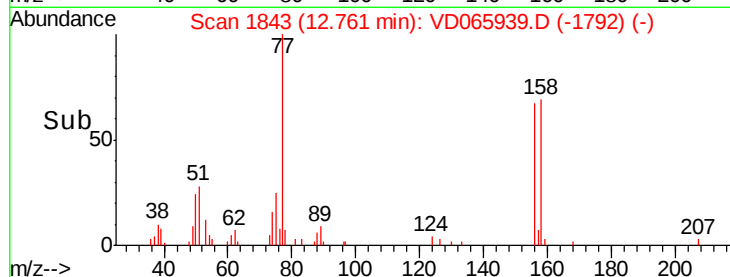
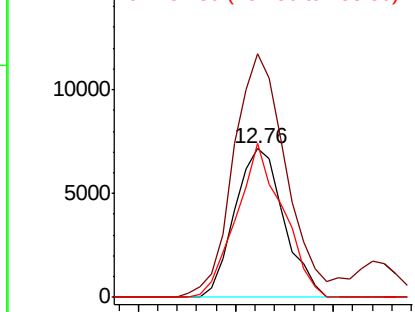
#77
Bromobenzene
Concen: 2.706 ug/l
RT: 12.76 min Scan# 1843
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion:156 Resp: 12439
Ion Ratio Lower Upper
156 100
77 174.5 85.0 255.0
158 98.4 49.0 147.0

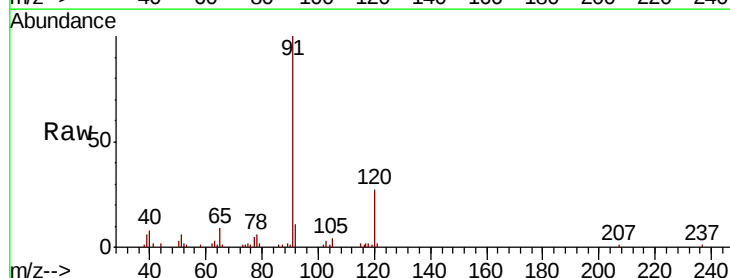


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VDC
Ion 157.80 (157.50 to 158.50): V

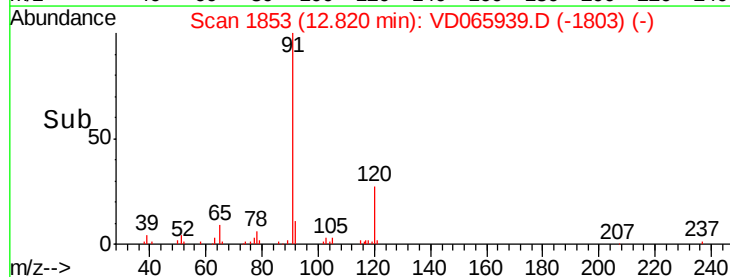
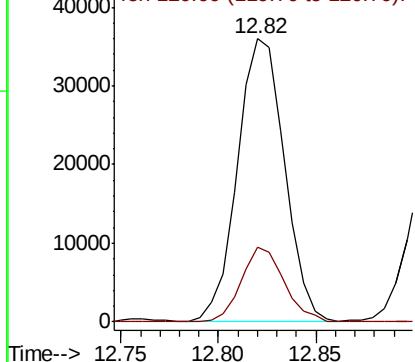


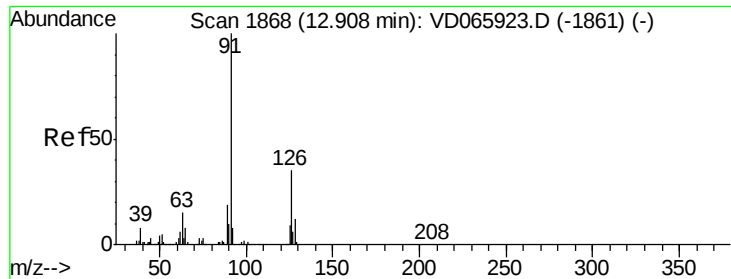
#78
n-propylbenzene
Concen: 2.704 ug/l
RT: 12.82 min Scan# 1853
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion: 91 Resp: 60067
Ion Ratio Lower Upper
91 100
120 24.1 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.764 ug/l

RT: 12.91 min Scan# 1868

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

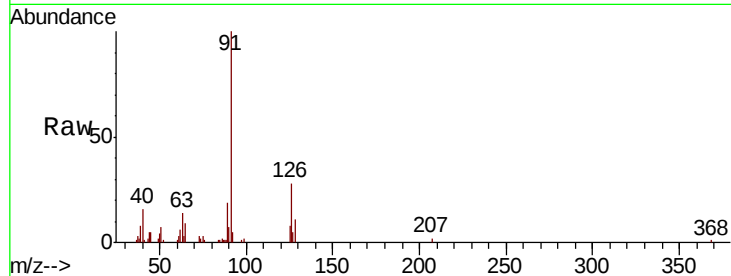
MDL-SOIL-03-QT3-2020DL

Tot Ion: 91 Resp: 34845

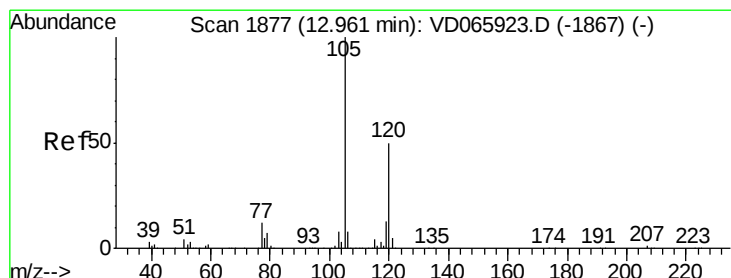
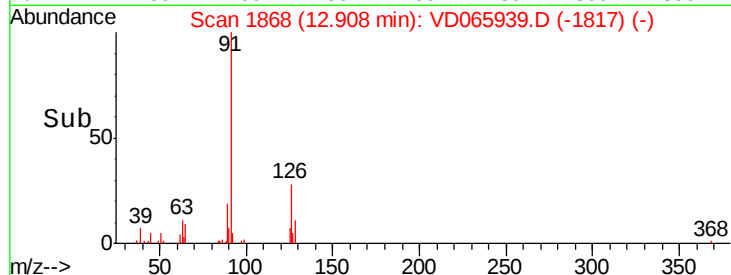
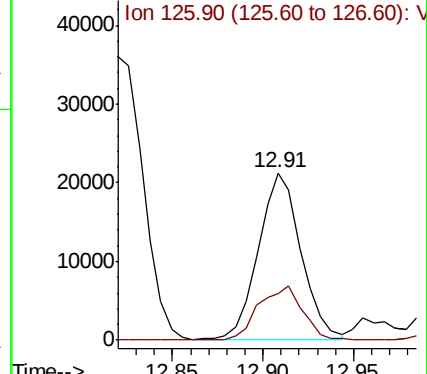
Ion Ratio Lower Upper

91 100

126 33.1 17.6 52.8



Abundance Ion 91.00 (90.70 to 91.70): V



#80

1,3,5-Trimethylbenzene

Concen: 2.535 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VD065939.D

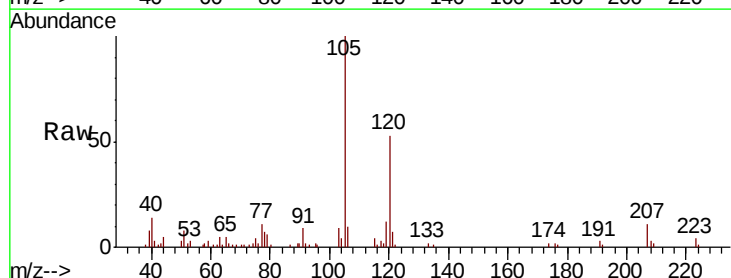
Acq: 08 Jul 2020 14:43

Tgt Ion:105 Resp: 39301

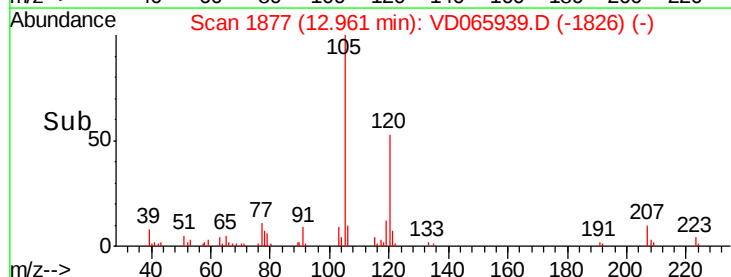
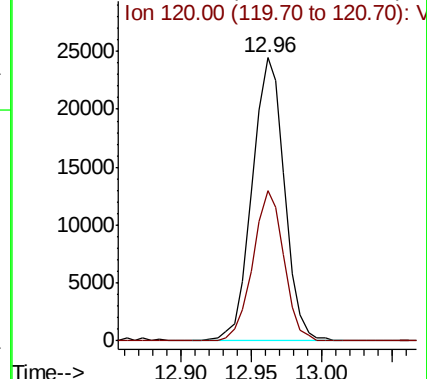
Ion Ratio Lower Upper

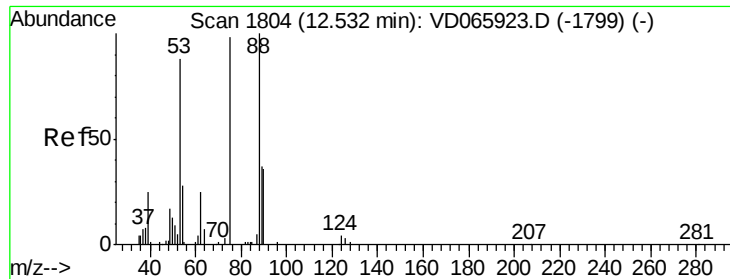
105 100

120 50.7 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 103.142 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

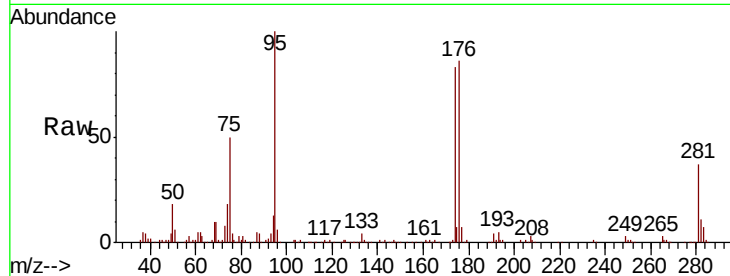
Tot Ion: 75 Resp: 109342

Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.8#

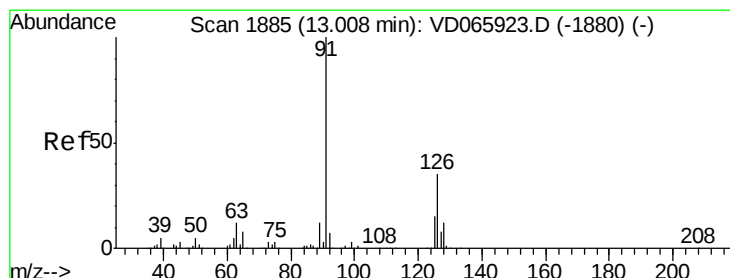
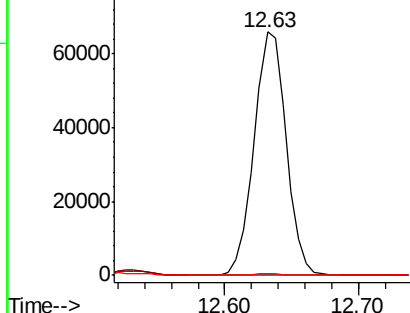
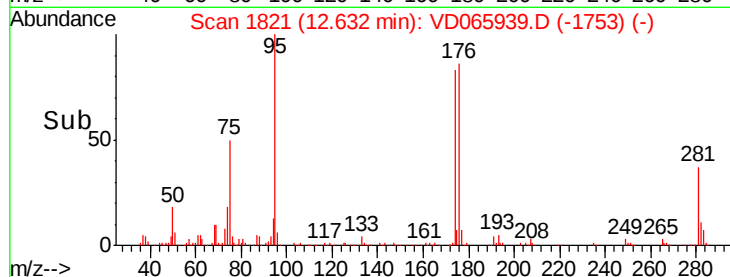
89 0.6 37.5 56.3#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#82

4-Chlorotoluene

Concen: 2.727 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VD065939.D

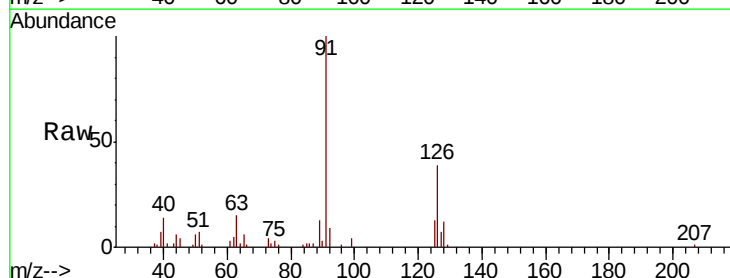
Acq: 08 Jul 2020 14:43

Tgt Ion: 91 Resp: 36057

Ion Ratio Lower Upper

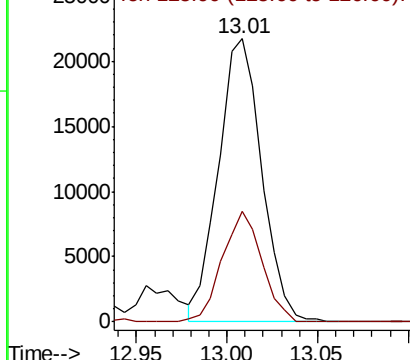
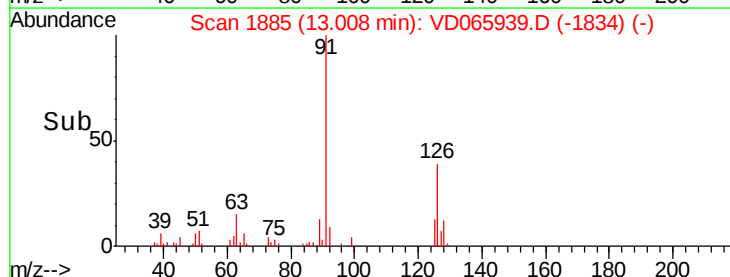
91 100

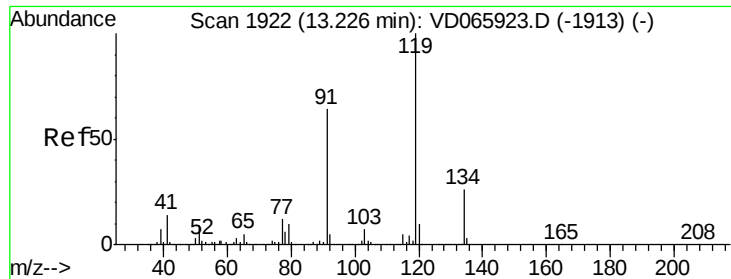
126 35.6 17.3 51.7



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V

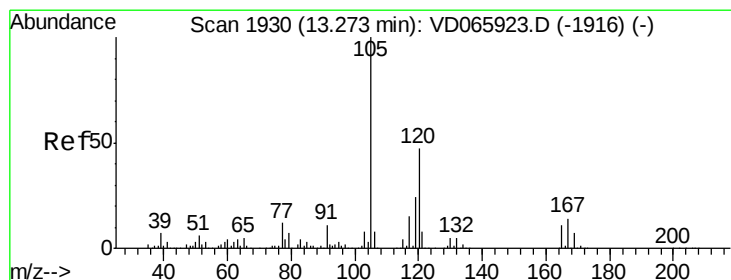
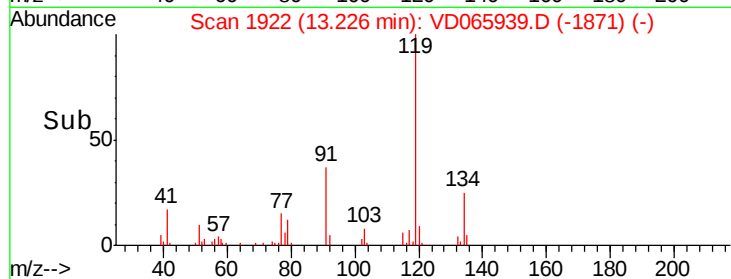
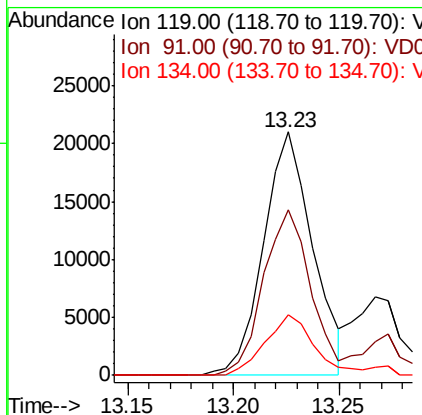
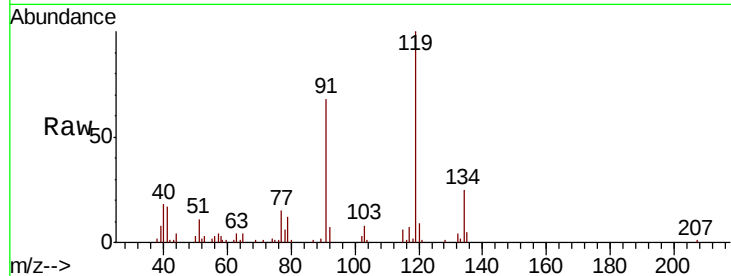




#83
tert-Butylbenzene
Concen: 2.575 ug/l
RT: 13.23 min Scan# 1922
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

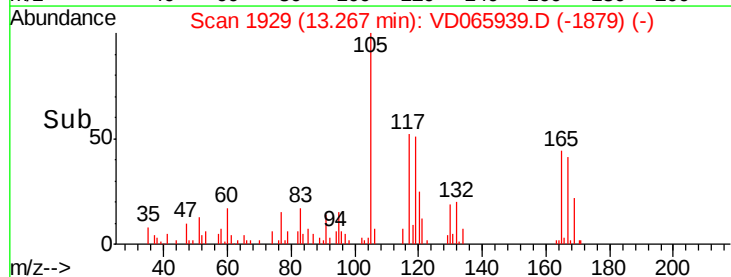
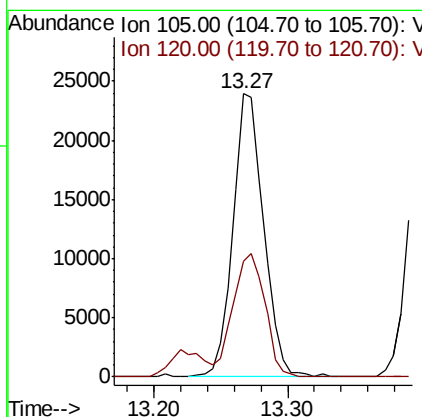
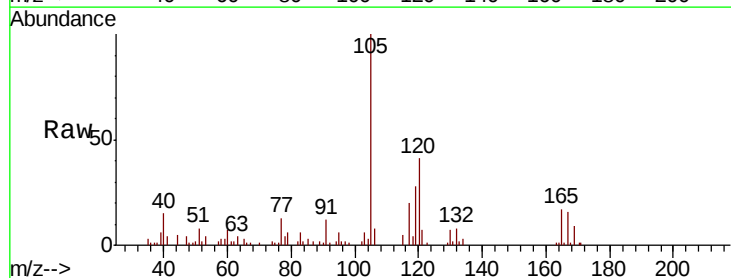
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

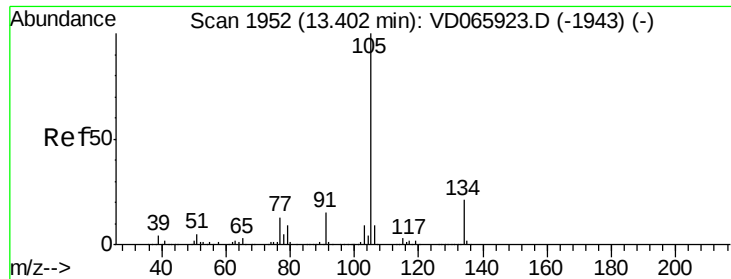
Tot Ion:119 Resp: 34008
Ion Ratio Lower Upper
119 100
91 67.0 32.4 97.2
134 24.9 14.1 42.4



#84
1,2,4-Trimethylbenzene
Concen: 2.477 ug/l
RT: 13.27 min Scan# 1929
Delta R.T. -0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion:105 Resp: 38223
Ion Ratio Lower Upper
105 100
120 45.4 23.2 69.5





#85

sec-Butylbenzene

Concen: 2.618 ug/l

RT: 13.40 min Scan# 1952

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

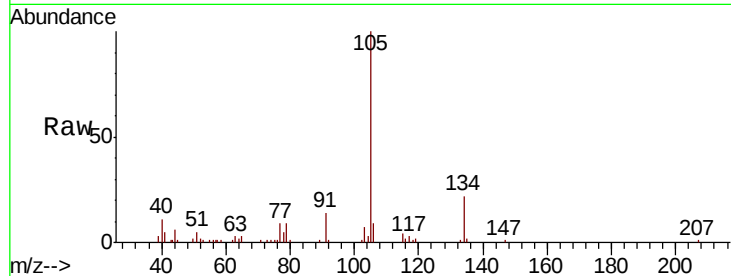
MDL-SOIL-03-QT3-2020DL

Tot Ion:105 Resp: 48991

Ion Ratio Lower Upper

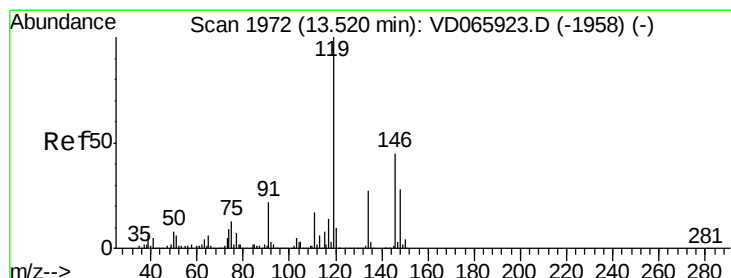
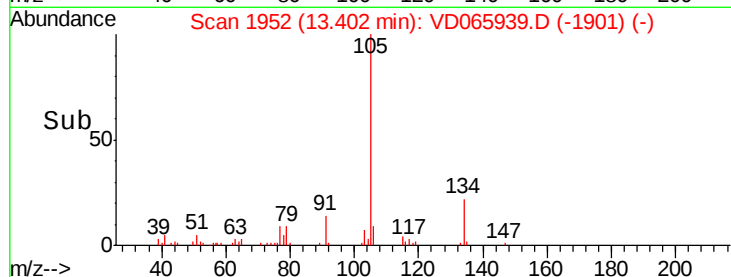
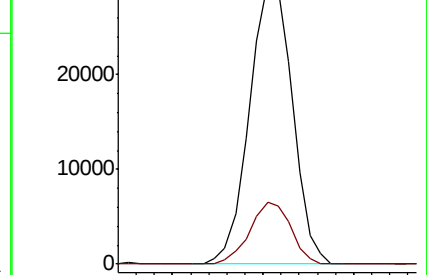
105 100

134 20.9 10.4 31.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.536 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

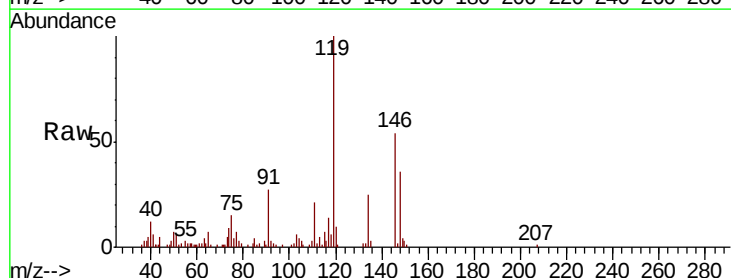
Tgt Ion:119 Resp: 43405

Ion Ratio Lower Upper

119 100

134 27.9 13.4 40.1

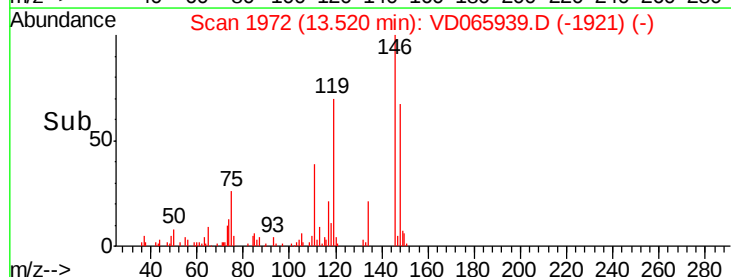
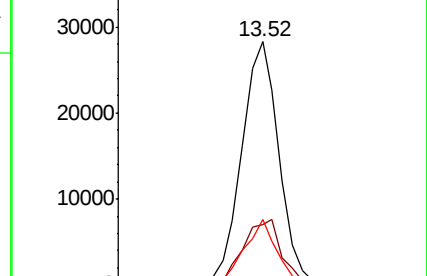
91 23.9 11.3 33.8

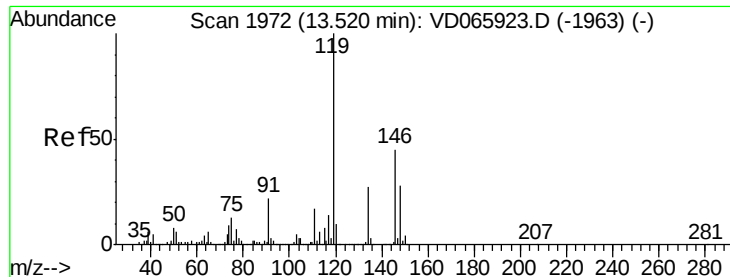


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

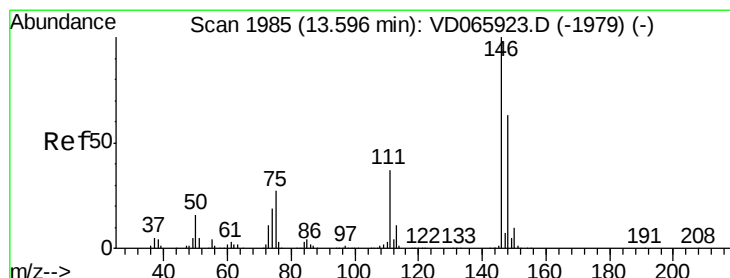
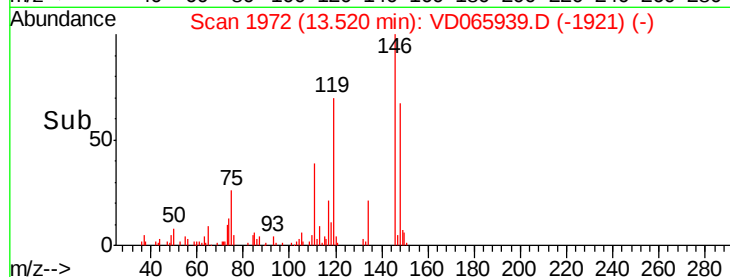
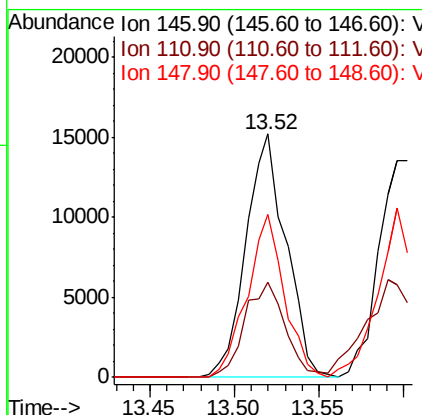
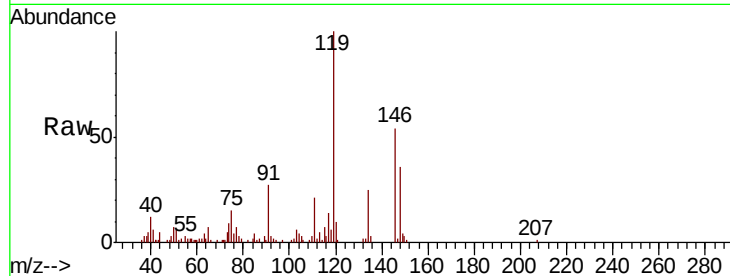




#87
 1,3-Dichlorobenzene
 Concen: 2.914 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

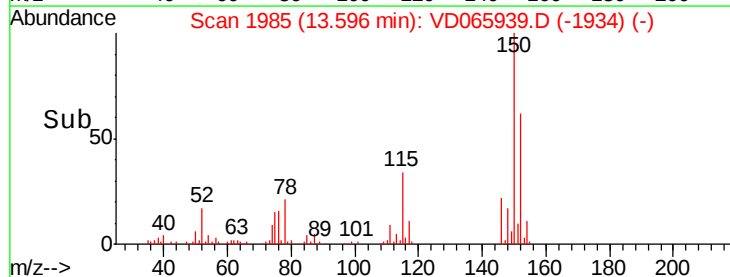
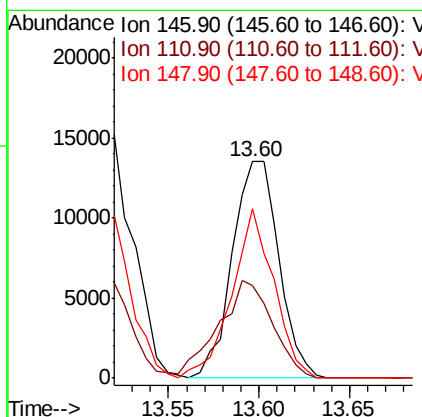
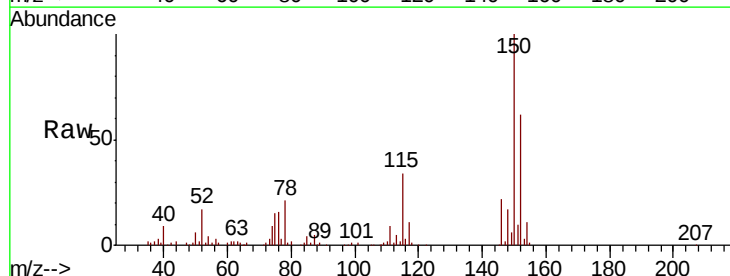
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

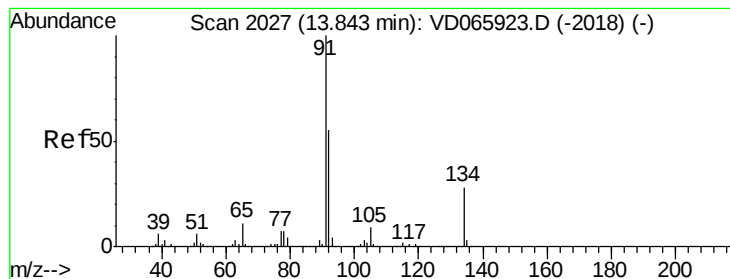
Tot Ion:146 Resp: 25065
 Ion Ratio Lower Upper
 146 100
 111 39.5 19.3 57.8
 148 62.4 32.0 96.0



#88
 1,4-Dichlorobenzene
 Concen: 2.819 ug/l
 RT: 13.60 min Scan# 1985
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion:146 Resp: 24189
 Ion Ratio Lower Upper
 146 100
 111 52.0 18.9 56.7
 148 70.3 32.1 96.3





#89

n-Butylbenzene

Concen: 2.542 ug/l

RT: 13.85 min Scan# 2028

Delta R.T. 0.01 min

Lab File: VD065939.D

Acq: 08 Jul 2020 14:43

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

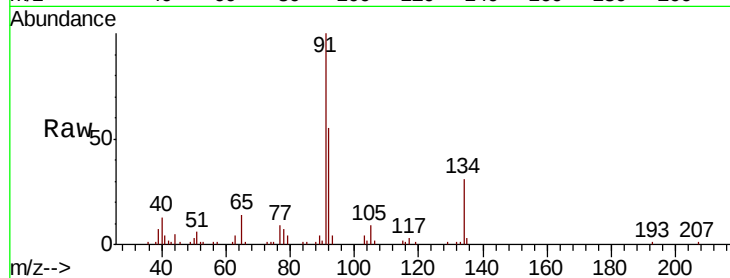
Tot Ion: 91 Resp: 40858

Ion Ratio Lower Upper

91 100

92 56.3 27.2 81.6

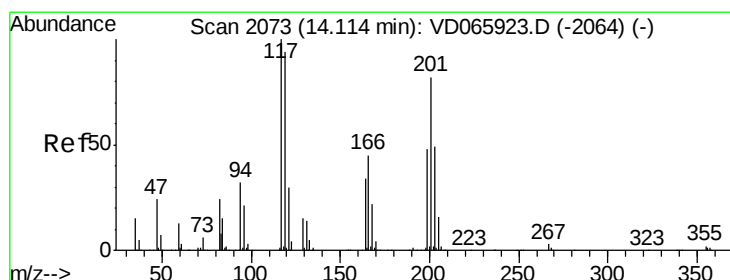
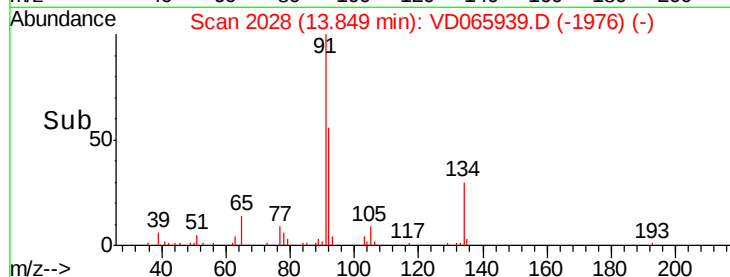
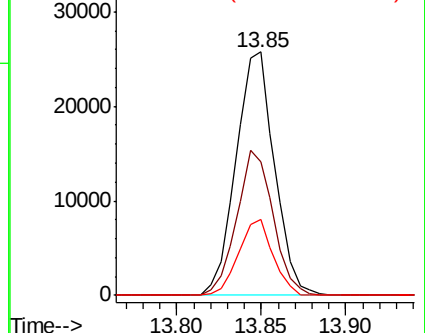
134 27.9 13.8 41.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 2.665 ug/l

RT: 14.11 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VD065939.D

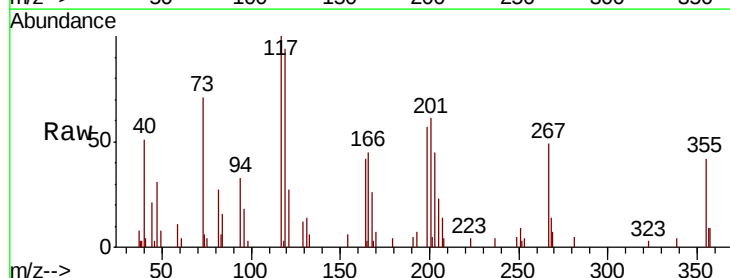
Acq: 08 Jul 2020 14:43

Tgt Ion: 117 Resp: 9199

Ion Ratio Lower Upper

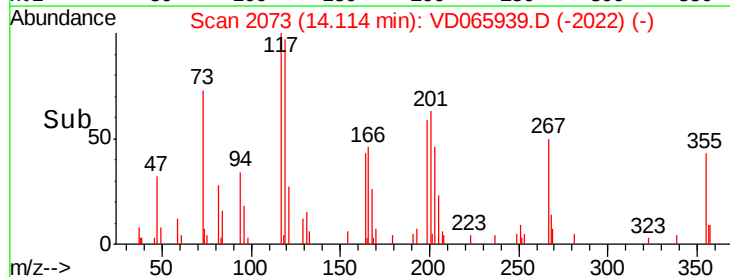
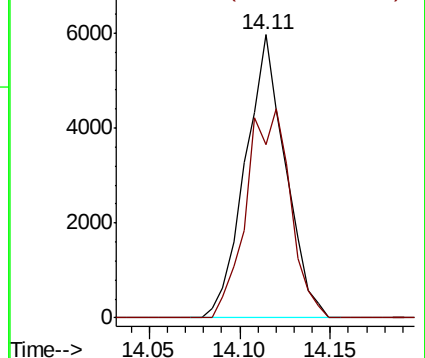
117 100

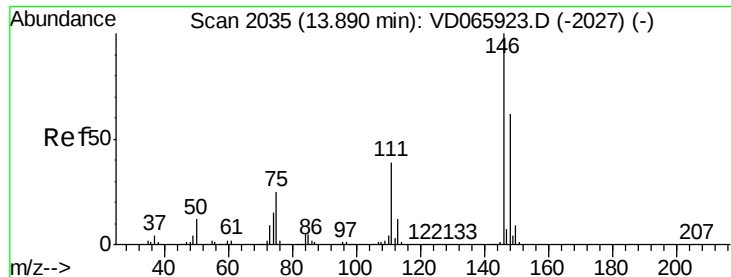
201 80.5 40.0 120.0



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

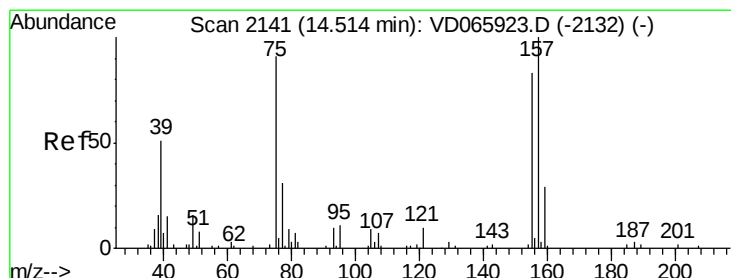
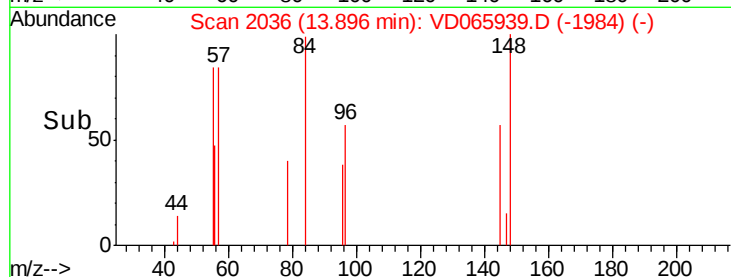
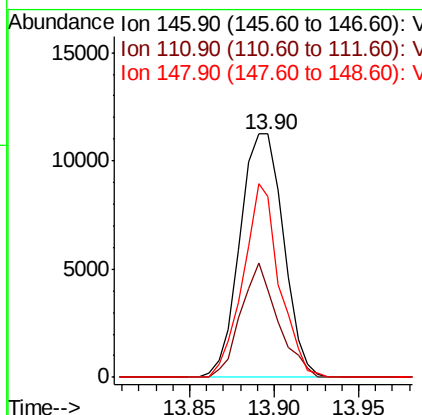
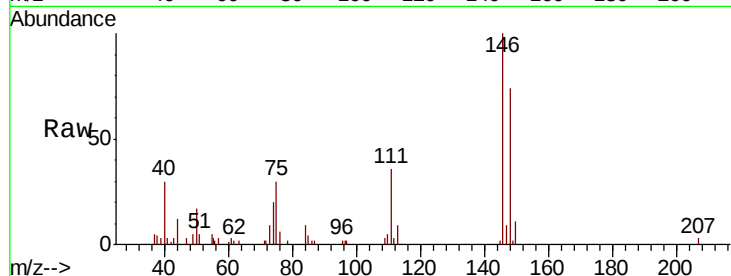




#91
 1,2-Dichlorobenzene
 Concen: 2.688 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

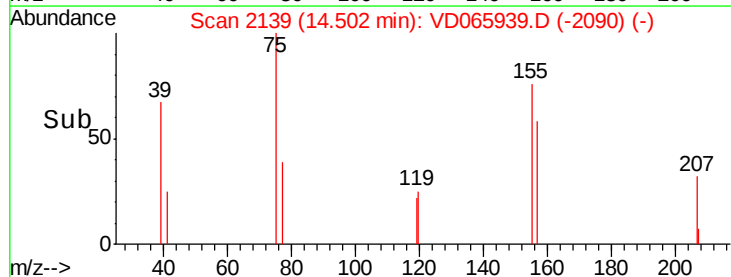
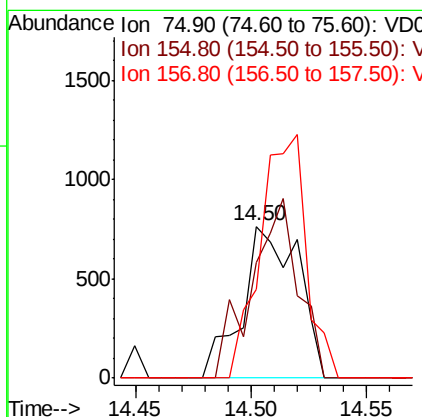
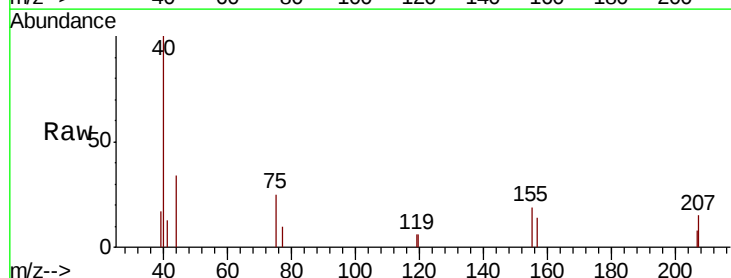
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

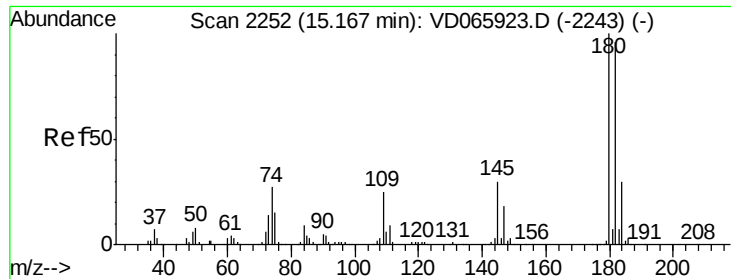
Tot Ion:146 Resp: 20209
 Ion Ratio Lower Upper
 146 100
 111 39.8 19.7 59.0
 148 66.5 32.5 97.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.462 ug/l
 RT: 14.50 min Scan# 2139
 Delta R.T. -0.01 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion: 75 Resp: 1295
 Ion Ratio Lower Upper
 75 100
 155 98.1 45.3 135.8
 157 130.7 56.9 170.6

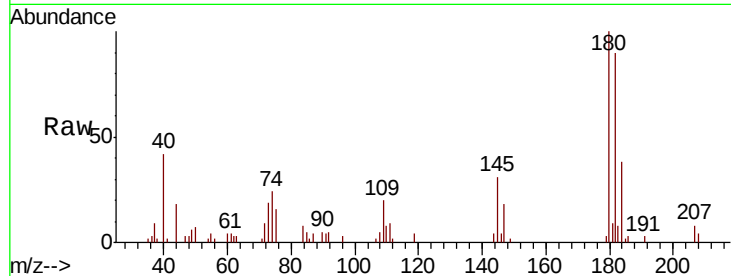




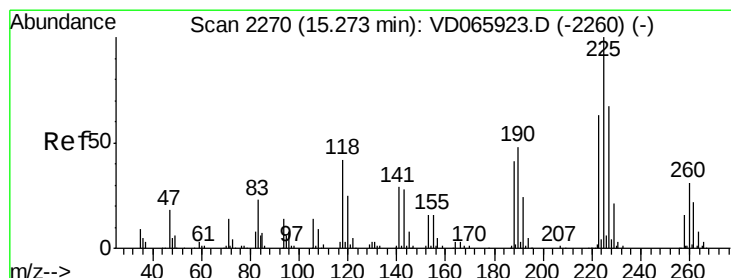
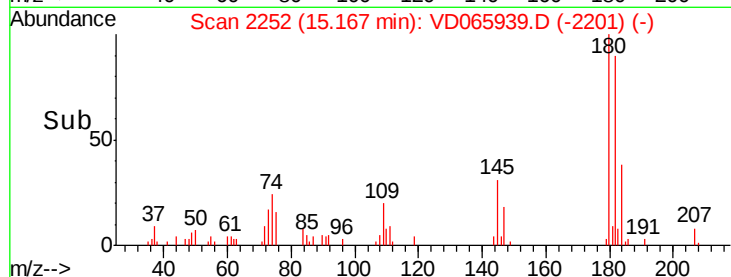
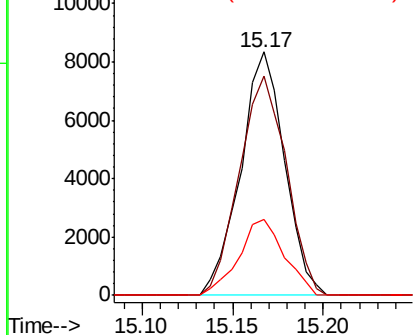
#93
 1,2,4-Trichlorobenzene
 Concen: 2.630 ug/l
 RT: 15.17 min Scan# 2252
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

Tot Ion:180 Resp: 14091
 Ion Ratio Lower Upper
 180 100
 182 96.1 48.5 145.6
 145 32.2 15.0 45.1

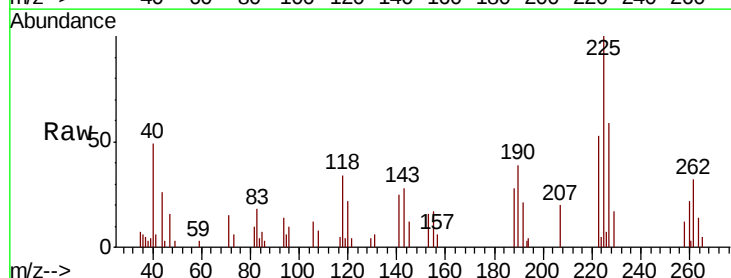


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

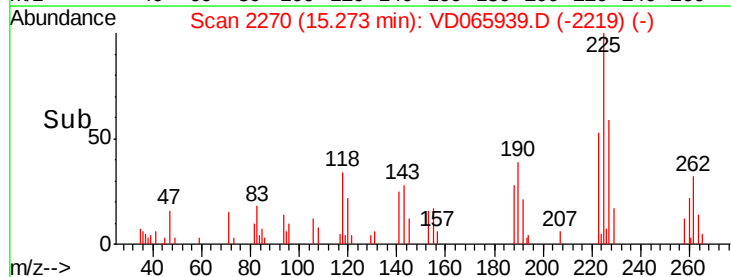
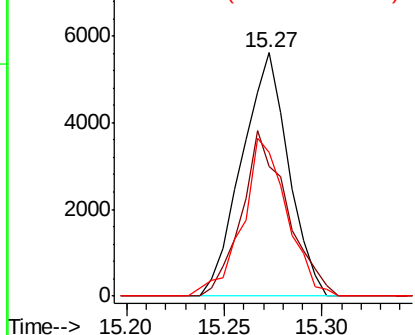


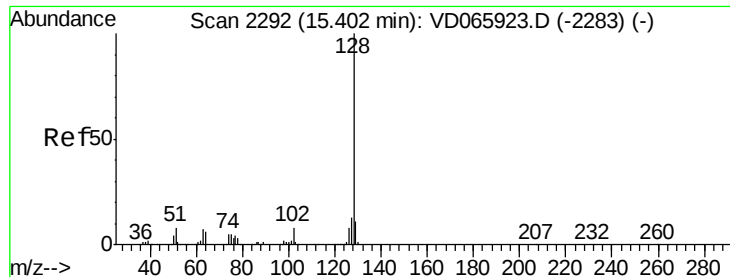
#94
 Hexachlorobutadiene
 Concen: 2.867 ug/l
 RT: 15.27 min Scan# 2270
 Delta R.T. 0.00 min
 Lab File: VD065939.D
 Acq: 08 Jul 2020 14:43

Tgt Ion:225 Resp: 9291
 Ion Ratio Lower Upper
 225 100
 223 66.2 31.1 93.2
 227 61.7 31.6 95.0



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

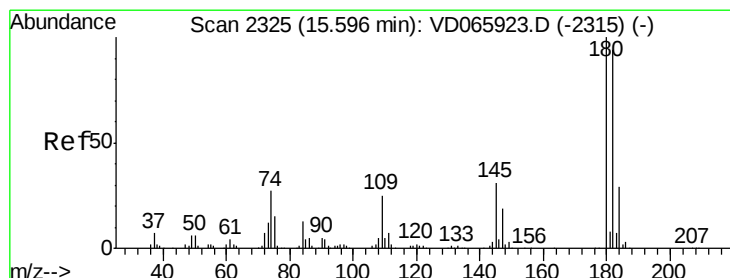
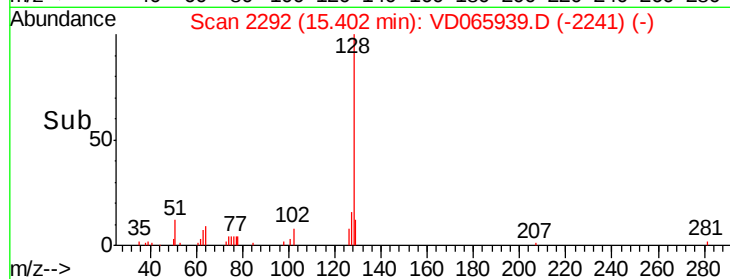
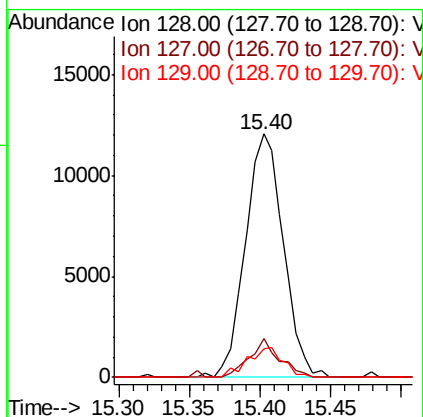
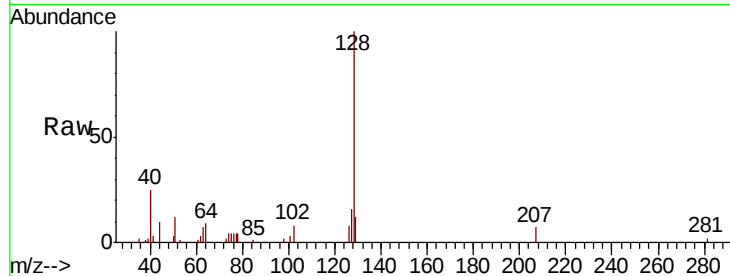




#95
Naphthalene
Concen: 2.525 ug/l
RT: 15.40 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

Tot Ion:128 Resp: 22686
Ion Ratio Lower Upper
128 100
127 12.6 10.8 16.2
129 11.6 8.9 13.3



#96
1,2,3-Trichlorobenzene
Concen: 2.866 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. 0.01 min
Lab File: VD065939.D
Acq: 08 Jul 2020 14:43

Tgt Ion:180 Resp: 13244
Ion Ratio Lower Upper
180 100
182 91.7 47.6 142.8
145 31.3 16.1 48.2

