

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070820\
 Data File : VD065940.D
 Acq On : 08 Jul 2020 15:10
 Operator : VA/SY
 Sample : L3216-03 4PPBMDL
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Jul 09 01:37:34 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	404979	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	619778	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	572493	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	287594	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	168966	47.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.16%	
35) Dibromofluoromethane	7.91	113	184692	48.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.62%	
50) Toluene-d8	10.34	98	660505	47.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.70%	
62) 4-Bromofluorobenzene	12.64	95	232014	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	16635	4.620	ug/l	94
3) Chloromethane	2.21	50	14732	4.128	ug/l	98
4) Vinyl Chloride	2.35	62	13105	3.999	ug/l #	86
5) Bromomethane	2.77	94	8933	4.303	ug/l	91
6) Chloroethane	2.93	64	7753	3.958	ug/l	98
7) Trichlorofluoromethane	3.27	101	31326	4.460	ug/l	98
8) Diethyl Ether	3.70	74	7740	4.017	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	4.09	101	17742	4.223	ug/l	93
10) Methyl Iodide	4.30	142	14742	3.695	ug/l	98
11) Tert butyl alcohol	5.17	59	2413	9.375	ug/l #	71
12) 1,1-Dichloroethene	4.07	96	16467	4.196	ug/l	88
13) Acrolein	3.91	56	4670	22.054	ug/l	93
14) Allyl chloride	4.71	41	26474	3.980	ug/l	99
15) Acrylonitrile	5.41	53	15304	18.140	ug/l	94
16) Acetone	4.16	43	16635	19.777	ug/l #	87
17) Carbon Disulfide	4.41	76	53211	4.255	ug/l	96
18) Methyl Acetate	4.71	43	9633	4.886	ug/l	95
19) Methyl tert-butyl Ether	5.48	73	32022	3.854	ug/l	95
20) Methylene Chloride	4.96	84	55523	9.292	ug/l	91
21) trans-1,2-Dichloroethene	5.47	96	19504	4.417	ug/l	97
22) Diisopropyl ether	6.36	45	48069	3.846	ug/l	92
23) Vinyl Acetate	6.30	43	120703	16.918	ug/l	95
24) 1,1-Dichloroethane	6.27	63	31280	4.197	ug/l	98
25) 2-Butanone	7.21	43	21287	19.152	ug/l #	88
26) 2,2-Dichloropropane	7.20	77	28451	4.363	ug/l	95
27) cis-1,2-Dichloroethene	7.21	96	19127	4.031	ug/l	95
28) Bromochloromethane	7.54	49	12534	4.452	ug/l	97
29) Tetrahydrofuran	7.56	42	12390	17.531	ug/l	95
30) Chloroform	7.71	83	31676	4.192	ug/l	95
31) Cyclohexane	7.98	56	34979	4.770	ug/l #	74
32) 1,1,1-Trichloroethane	7.91	97	27411	3.975	ug/l	97
36) 1,1-Dichloropropene	8.11	75	24599	4.019	ug/l	95
37) Ethyl Acetate	7.30	43	9393	3.662	ug/l #	94
38) Carbon Tetrachloride	8.09	117	27476	4.188	ug/l #	89

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.35	83	30461	4.053	ug/l	97
40) Benzene	8.36	78	67529	3.993	ug/l	94
41) Methacrylonitrile	7.53	41	6710	4.506	ug/l #	88
42) 1,2-Dichloroethane	8.42	62	19818	4.137	ug/l	97
43) Isopropyl Acetate	8.45	43	18566	3.889	ug/l	94
44) Trichloroethene	9.11	130	21042	4.235	ug/l	100
45) 1,2-Dichloropropane	9.38	63	16752	3.991	ug/l	97
46) Dibromomethane	9.47	93	8971	4.105	ug/l	96
47) Bromodichloromethane	9.66	83	22141	3.777	ug/l #	92
48) Methyl methacrylate	9.45	41	7842	3.263	ug/l #	75
49) 1,4-Dioxane	9.46	88	2052	79.033	ug/l	97
51) 4-Methyl-2-Pentanone	10.23	43	42487	17.603	ug/l	97
52) Toluene	10.41	92	44957	4.179	ug/l	98
53) t-1,3-Dichloropropene	10.62	75	21857	3.966	ug/l	92
54) cis-1,3-Dichloropropene	10.09	75	24961	3.748	ug/l	94
55) 1,1,2-Trichloroethane	10.80	97	12217	4.058	ug/l	95
56) Ethyl methacrylate	10.66	69	13161	3.579	ug/l	93
57) 1,3-Dichloropropane	10.95	76	19491	3.702	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.94	63	32951	18.503	ug/l	100
59) 2-Hexanone	10.98	43	28271	17.032	ug/l	100
60) Dibromochloromethane	11.14	129	16445	3.998	ug/l	98
61) 1,2-Dibromoethane	11.25	107	11619	3.871	ug/l	99
64) Tetrachloroethene	10.88	164	17752	4.264	ug/l	94
65) Chlorobenzene	11.67	112	48434	4.198	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.74	131	17468	4.048	ug/l	95
67) Ethyl Benzene	11.74	91	79340	3.871	ug/l	96
68) m/p-Xylenes	11.86	106	61704	7.924	ug/l	99
69) o-Xylene	12.18	106	27523	3.880	ug/l	98
70) Styrene	12.20	104	47477	3.877	ug/l	99
71) Bromoform	12.36	173	9947	4.074	ug/l #	95
73) Isopropylbenzene	12.48	105	73968	3.685	ug/l	98
74) N-amyl acetate	12.29	43	15684	3.482	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.73	83	12237	3.672	ug/l	94
76) 1,2,3-Trichloropropane	12.78	75	17109	7.092	ug/l #	100
77) Bromobenzene	12.76	156	20347	4.180	ug/l	95
78) n-propylbenzene	12.82	91	93450	3.971	ug/l	98
79) 2-Chlorotoluene	12.91	91	51946	3.891	ug/l	99
80) 1,3,5-Trimethylbenzene	12.96	105	61305	3.734	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.53	75	4231	3.768	ug/l	93
82) 4-Chlorotoluene	13.01	91	54831	3.915	ug/l	98
83) tert-Butylbenzene	13.23	119	52394	3.746	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	61700	3.776	ug/l	99
85) sec-Butylbenzene	13.40	105	74232	3.745	ug/l	99
86) p-Isopropyltoluene	13.52	119	66828	3.686	ug/l	97
87) 1,3-Dichlorobenzene	13.52	146	37328	4.098	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	36840	4.054	ug/l	89
89) n-Butylbenzene	13.84	91	64037	3.761	ug/l	98
90) Hexachloroethane	14.11	117	14409	3.941	ug/l	100
91) 1,2-Dichlorobenzene	13.89	146	30866	3.877	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.51	75	2152	3.862	ug/l	97

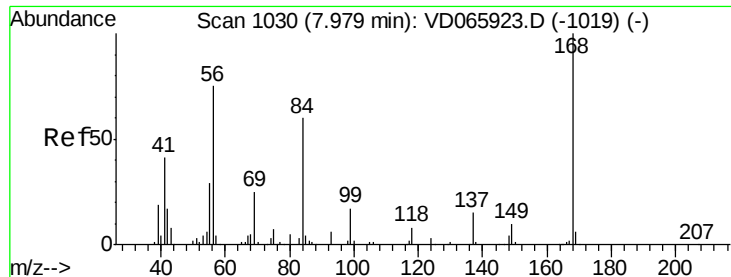
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.16	180	21705	3.825	ug/l	94
94) Hexachlorobutadiene	15.27	225	13784	4.016	ug/l	96
95) Naphthalene	15.40	128	32661	3.432	ug/l	97
96) 1,2,3-Trichlorobenzene	15.60	180	19691	4.023	ug/l	98

(#) = 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: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

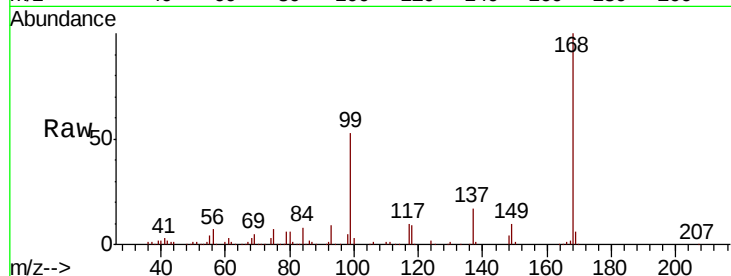
MDL-SOIL-03-QT3-2020DL

Tot Ion:168 Resp: 404979

Ion Ratio Lower Upper

168 100

99 52.2 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

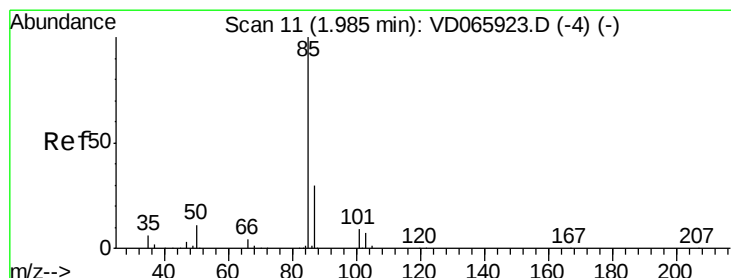
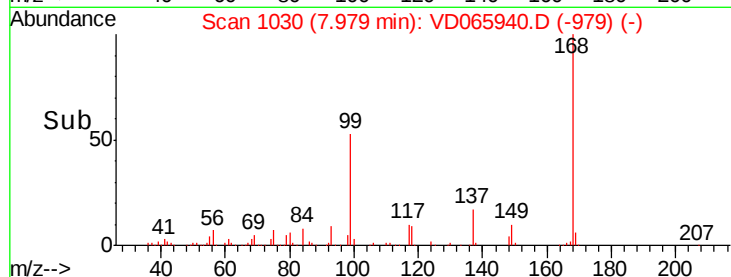
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 4.620 ug/l

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD065940.D

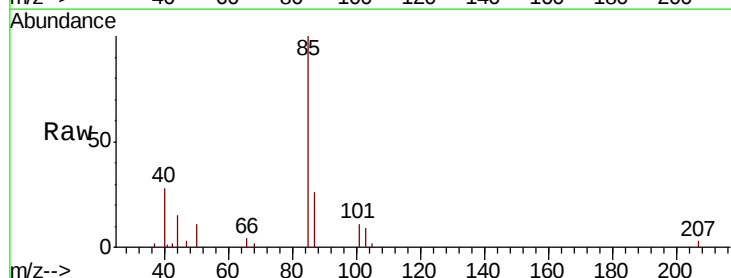
Acq: 08 Jul 2020 15:10

Tgt Ion: 85 Resp: 16635

Ion Ratio Lower Upper

85 100

87 26.4 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

15000

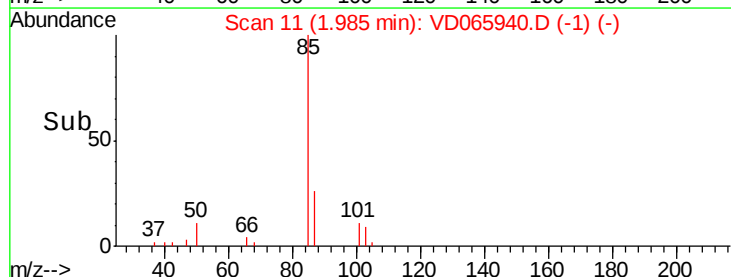
10000

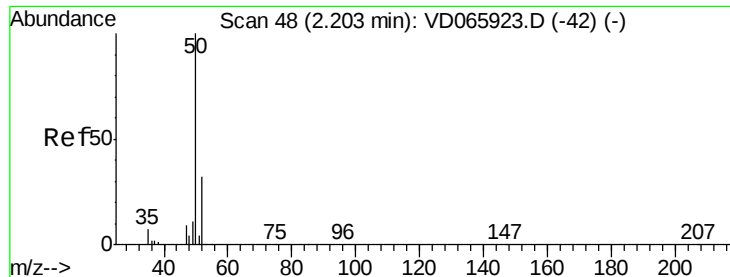
5000

0

1.95 2.00 2.05

Time-->





#3

Chloromethane

Concen: 4.128 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.01 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

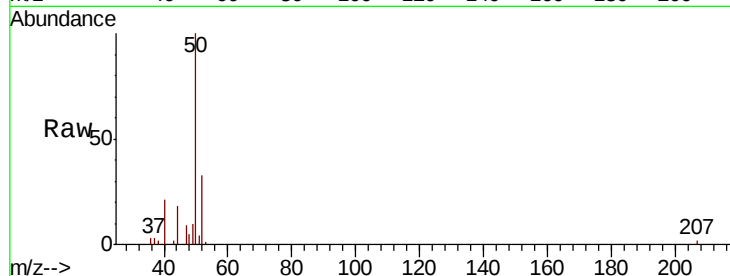
MDL-SOIL-03-QT3-2020DL

Tot Ion: 50 Resp: 14732

Ion Ratio Lower Upper

50 100

52 33.2 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

12000

10000

8000

6000

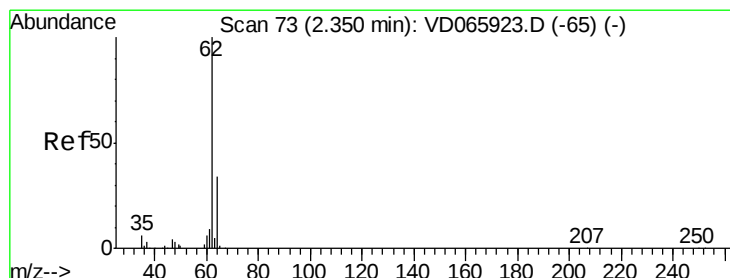
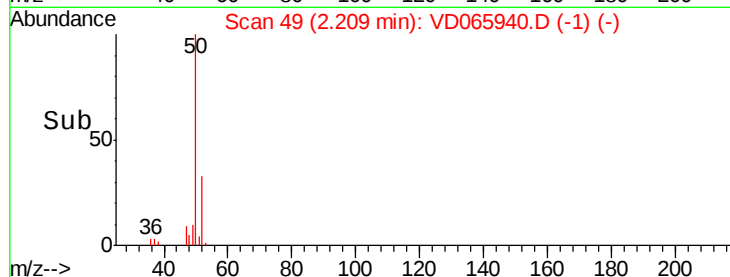
4000

2000

0

Time-->

2.15 2.20 2.25



#4

Vinyl Chloride

Concen: 3.999 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065940.D

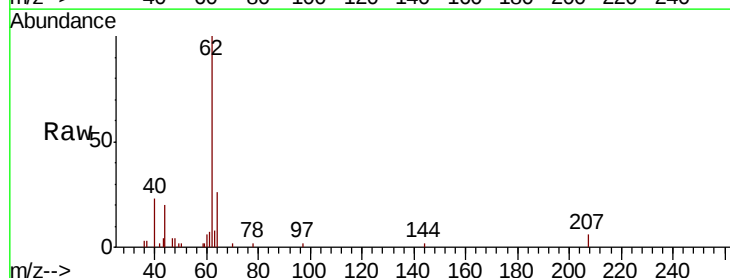
Acq: 08 Jul 2020 15:10

Tgt Ion: 62 Resp: 13105

Ion Ratio Lower Upper

62 100

64 25.9 27.2 40.8#



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC

2.35

10000

8000

6000

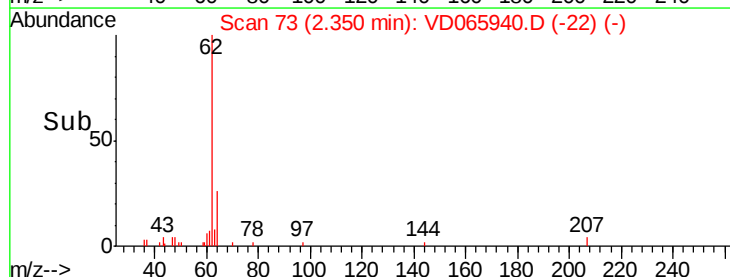
4000

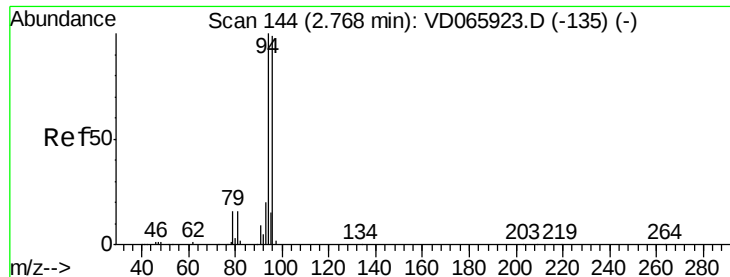
2000

0

Time-->

2.30 2.35 2.40





#5

Bromomethane

Concen: 4.303 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

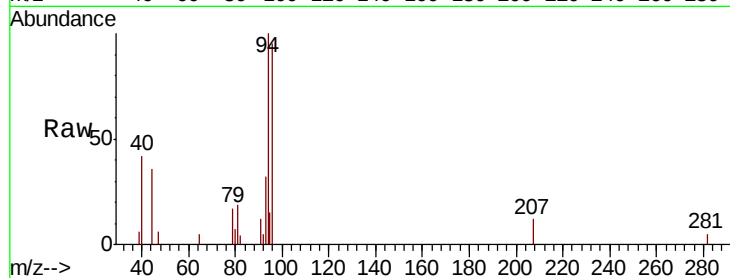
MDL-SOIL-03-QT3-2020DL

Tot Ion: 94 Resp: 8933

Ion Ratio Lower Upper

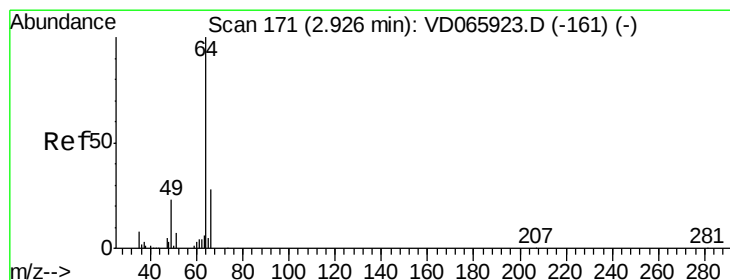
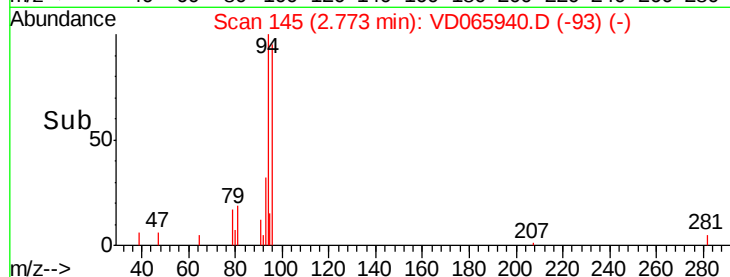
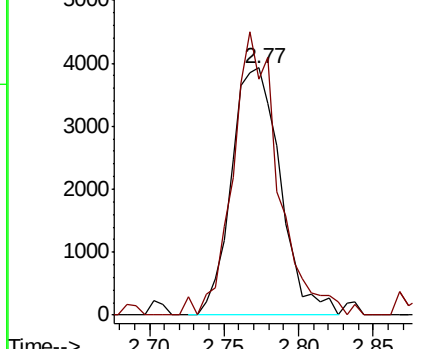
94 100

96 90.0 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: 3.958 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.00 min

Lab File: VD065940.D

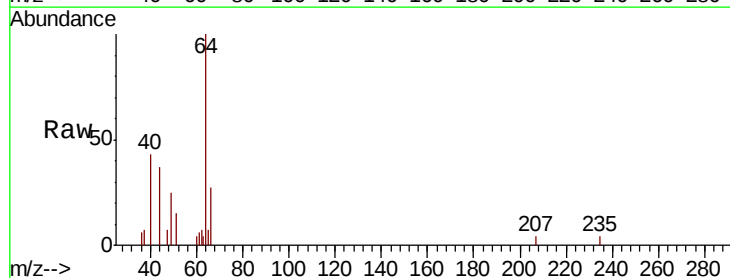
Acq: 08 Jul 2020 15:10

Tgt Ion: 64 Resp: 7753

Ion Ratio Lower Upper

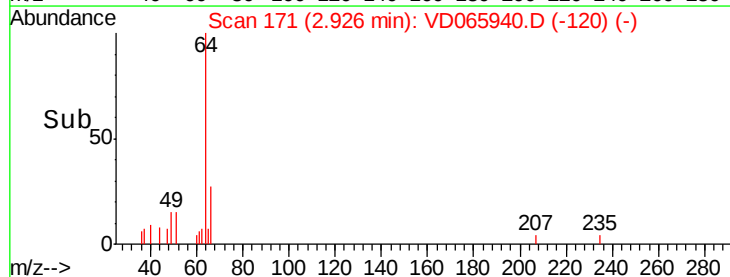
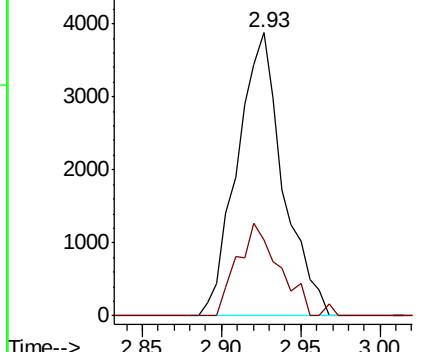
64 100

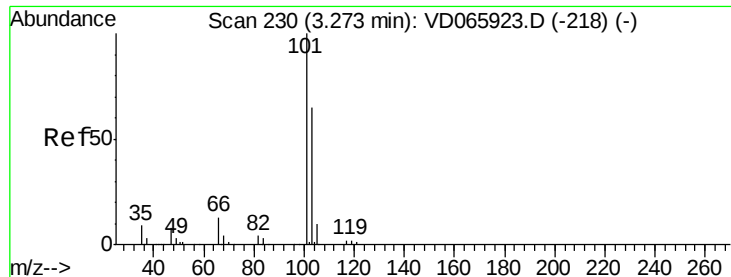
66 27.0 22.6 33.8



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 4.460 ug/l

RT: 3.27 min Scan# 230

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

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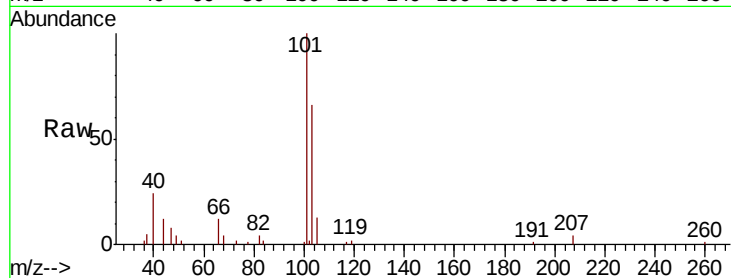
MDL-SOIL-03-QT3-2020DL

Tot Ion:101 Resp: 31326

Ion Ratio Lower Upper

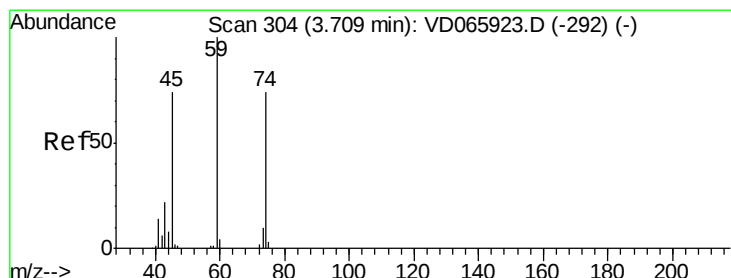
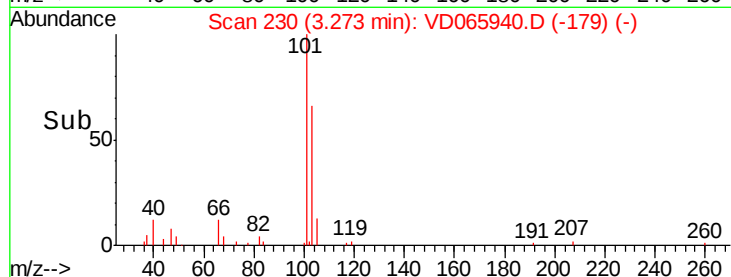
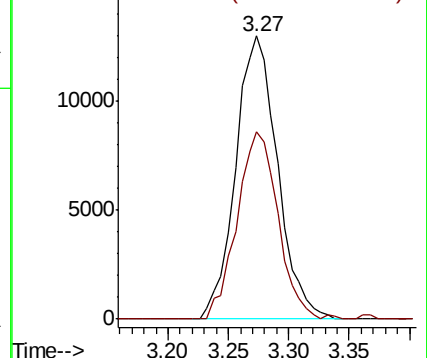
101 100

103 66.2 51.7 77.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 4.017 ug/l

RT: 3.70 min Scan# 303

Delta R.T. -0.01 min

Lab File: VD065940.D

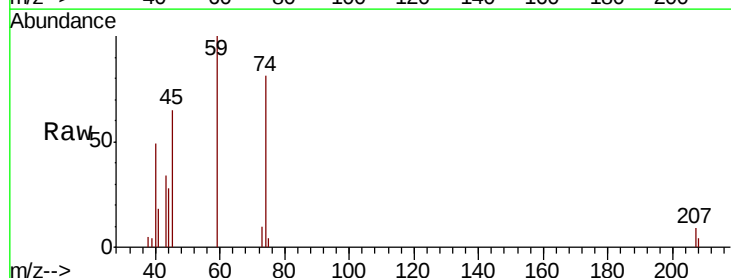
Acq: 08 Jul 2020 15:10

Tgt Ion: 74 Resp: 7740

Ion Ratio Lower Upper

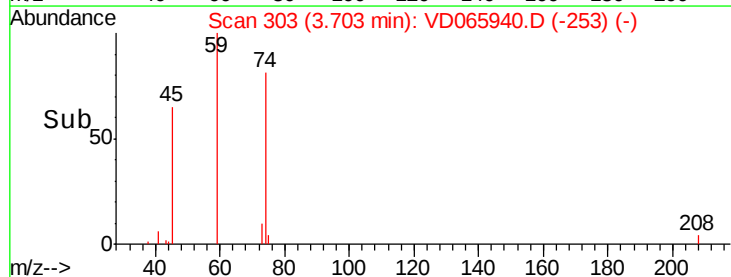
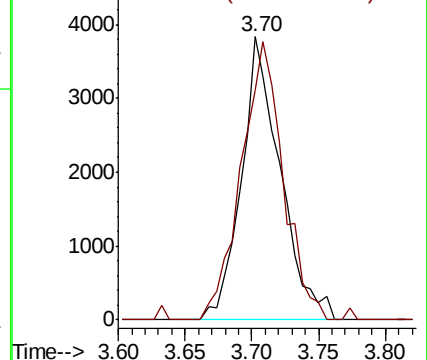
74 100

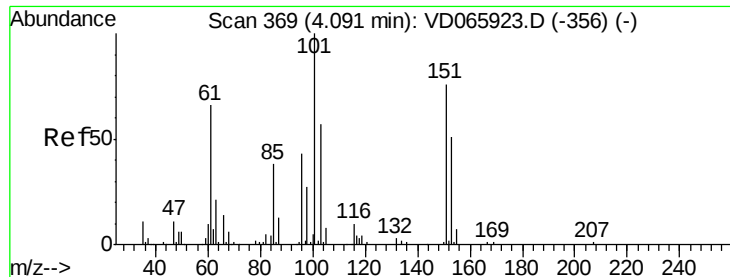
45 106.1 51.1 153.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.223 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

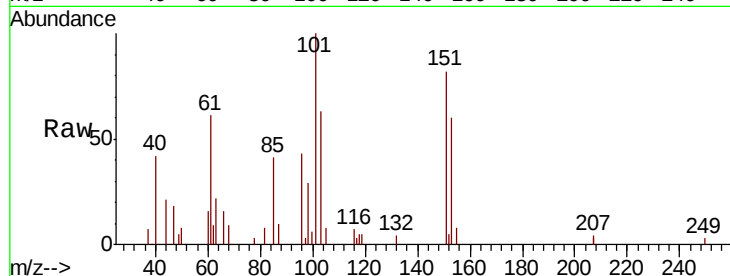
Tot Ion:101 Resp: 17742

Ion Ratio Lower Upper

101 100

85 43.4 33.8 50.8

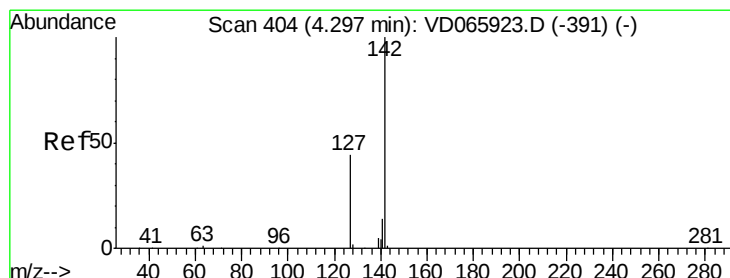
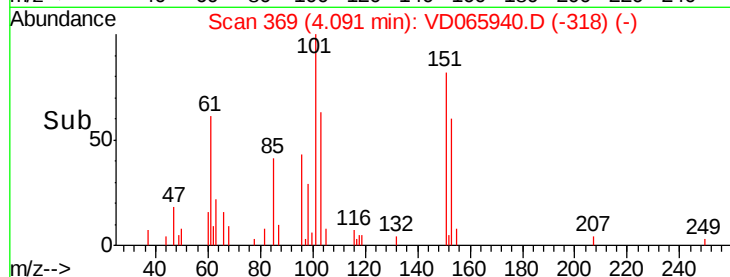
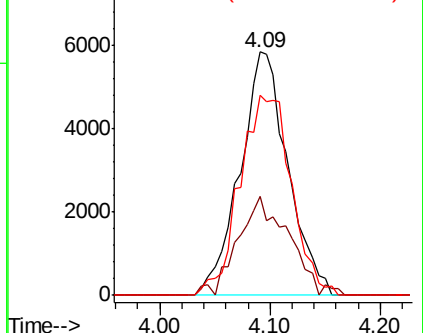
151 88.6 64.1 96.1



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: 3.695 ug/l

RT: 4.30 min Scan# 405

Delta R.T. 0.01 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

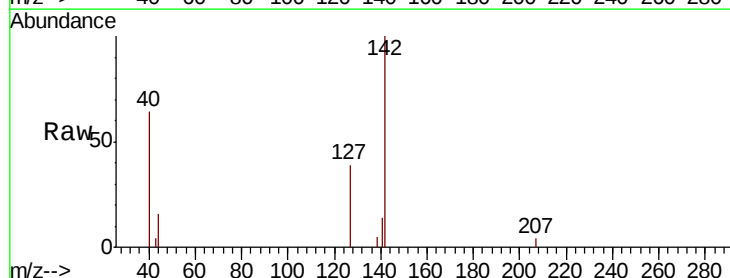
Tgt Ion:142 Resp: 14742

Ion Ratio Lower Upper

142 100

127 42.8 34.6 51.8

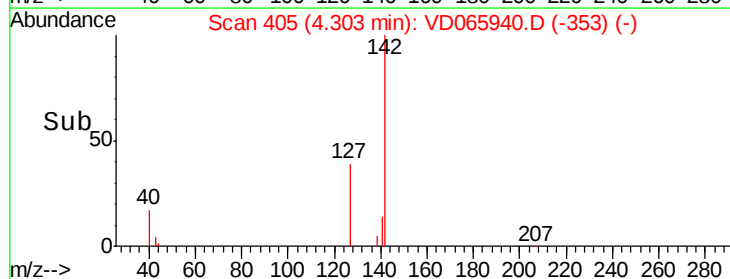
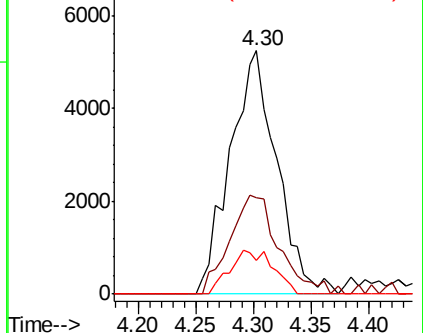
141 16.7 11.6 17.4

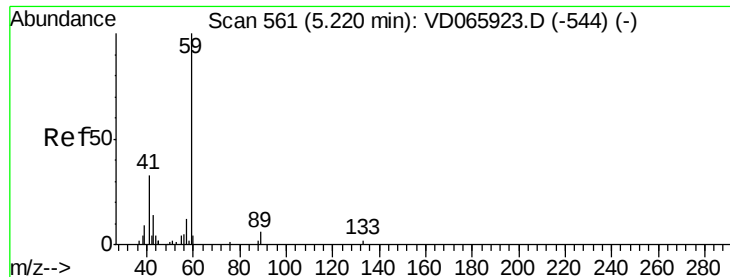


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



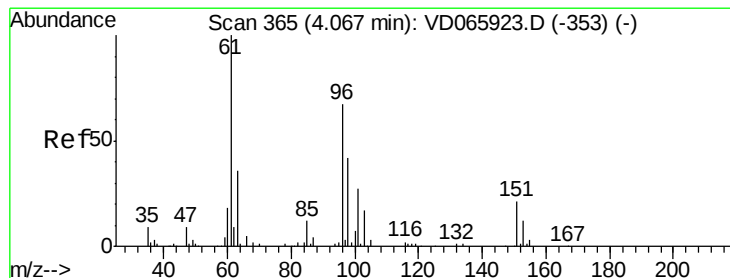
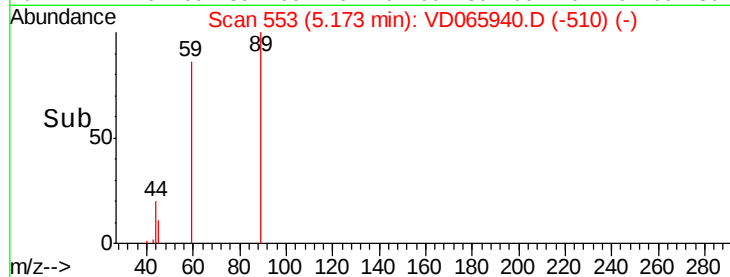
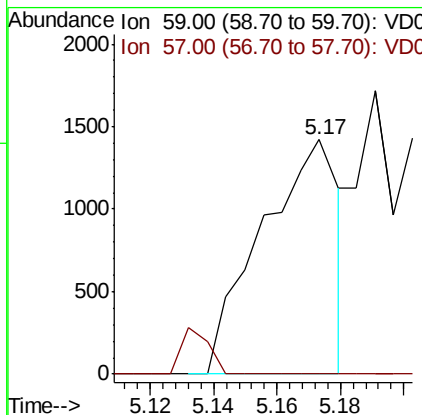
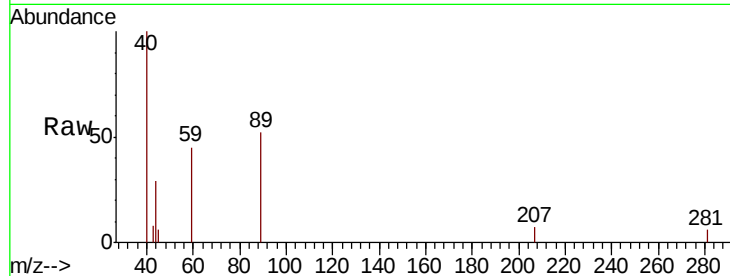


#11

Tert butyl alcohol
 Concen: 9.375 ug/l
 RT: 5.17 min Scan# 553
 Delta R.T. -0.05 min
 Lab File: VD065940.D
 Acq: 08 Jul 2020 15:10

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

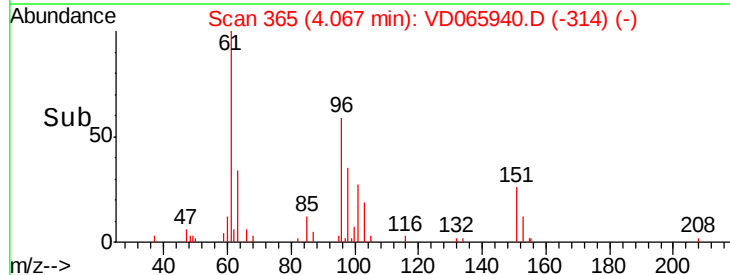
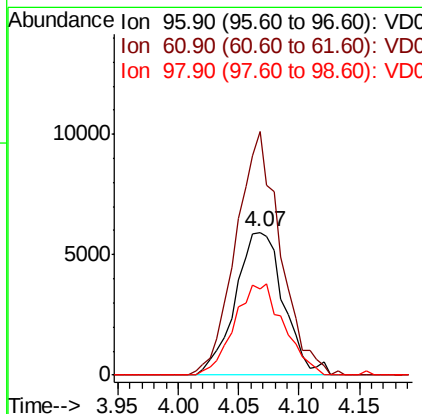
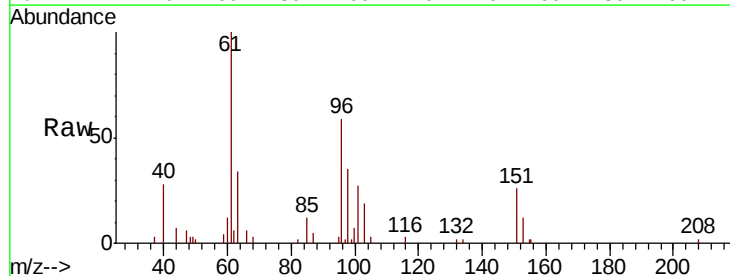
Tot Ion: 59 Resp: 2413
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.7 13.1#

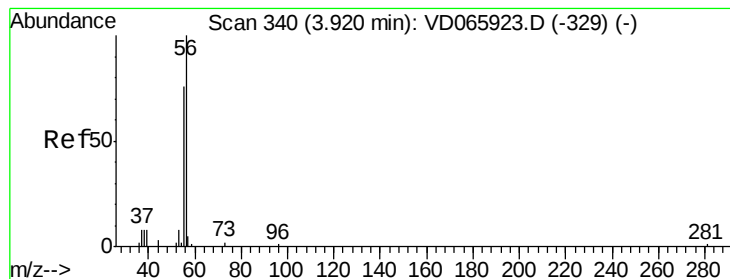


#12

1,1-Dichloroethene
 Concen: 4.196 ug/l
 RT: 4.07 min Scan# 365
 Delta R.T. 0.00 min
 Lab File: VD065940.D
 Acq: 08 Jul 2020 15:10

Tgt Ion: 96 Resp: 16467
 Ion Ratio Lower Upper
 96 100
 61 170.7 120.2 180.2
 98 60.5 50.6 76.0





#13

Acrolein

Concen: 22.054 ug/l

RT: 3.91 min Scan# 339

Delta R.T. -0.01 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

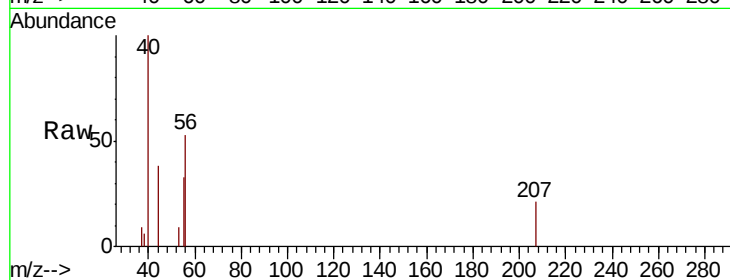
MDL-SOIL-03-QT3-2020DL

Tot Ion: 56 Resp: 4670

Ion Ratio Lower Upper

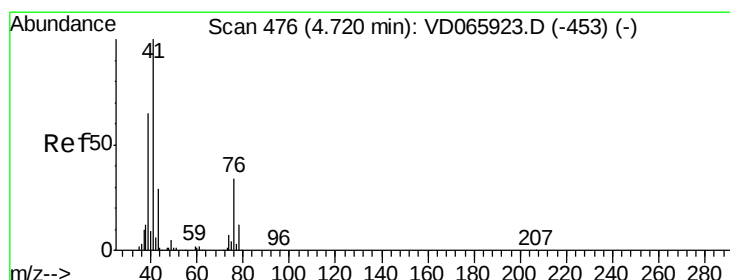
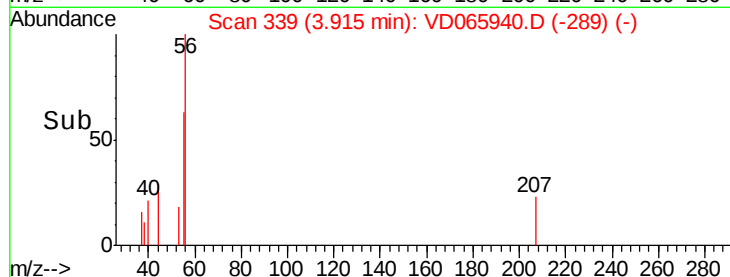
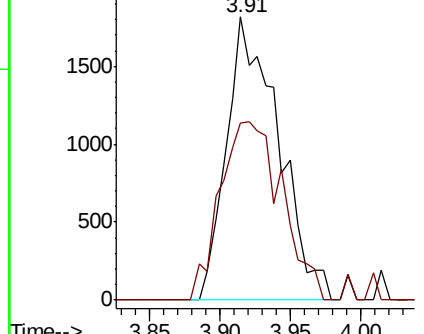
56 100

55 74.7 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: 3.980 ug/l

RT: 4.71 min Scan# 475

Delta R.T. -0.01 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

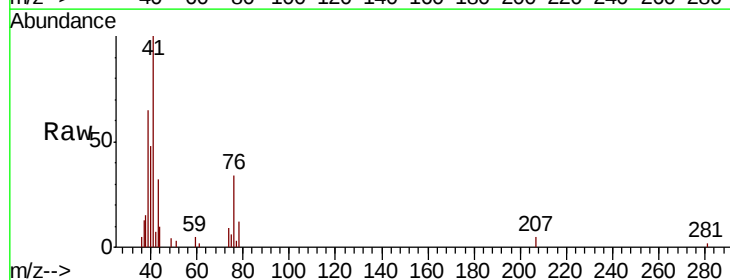
Tgt Ion: 41 Resp: 26474

Ion Ratio Lower Upper

41 100

39 66.1 52.2 78.4

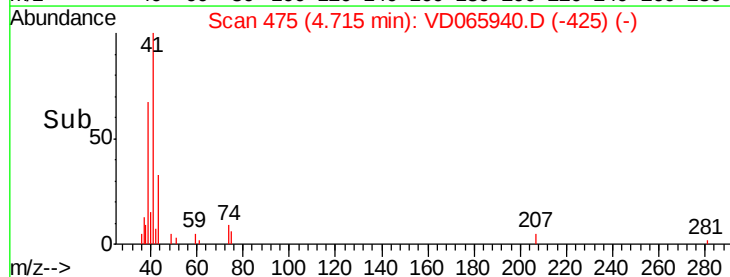
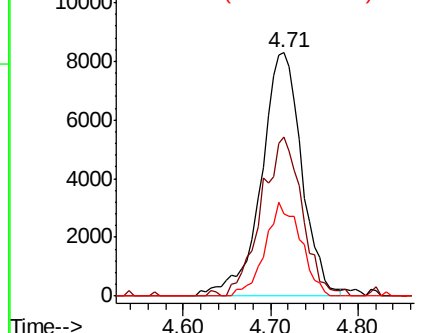
76 34.0 28.1 42.1

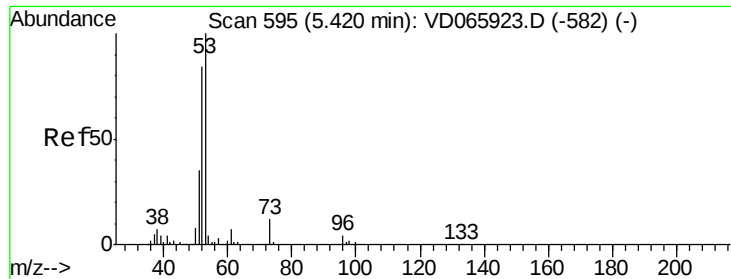


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 18.140 ug/l

RT: 5.41 min Scan# 594

Delta R.T. -0.01 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

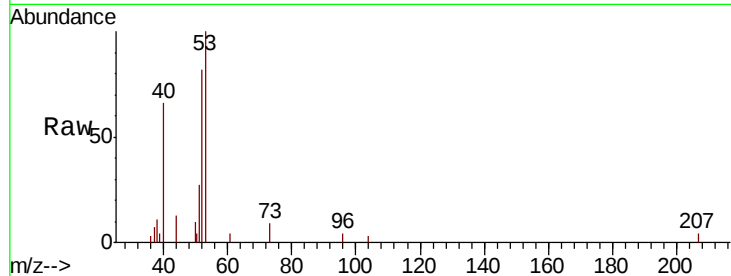
Tot Ion: 53 Resp: 15304

Ion Ratio Lower Upper

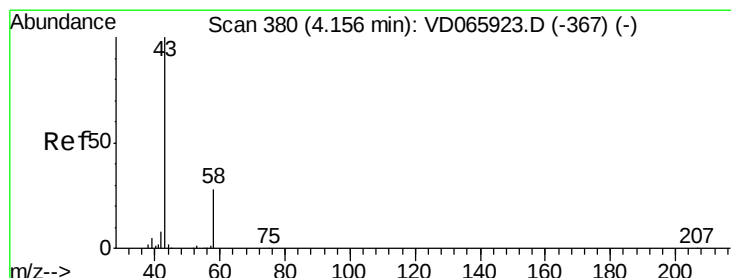
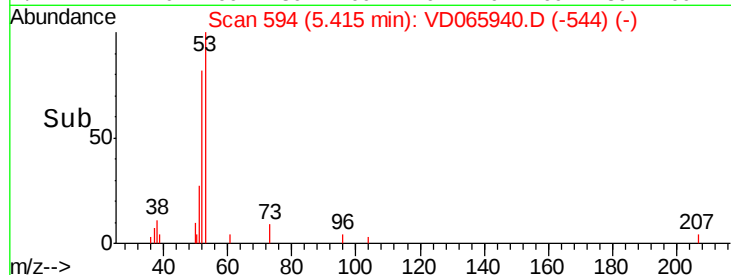
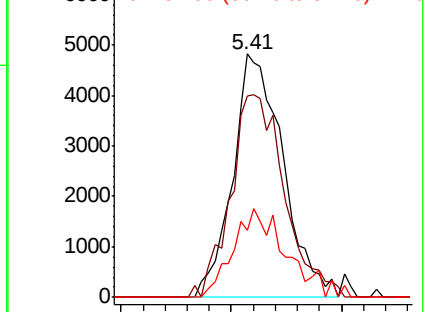
53 100

52 89.5 66.3 99.5

51 38.7 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: 19.777 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD065940.D

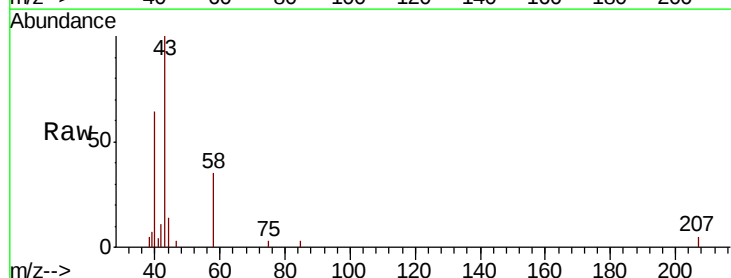
Acq: 08 Jul 2020 15:10

Tgt Ion: 43 Resp: 16635

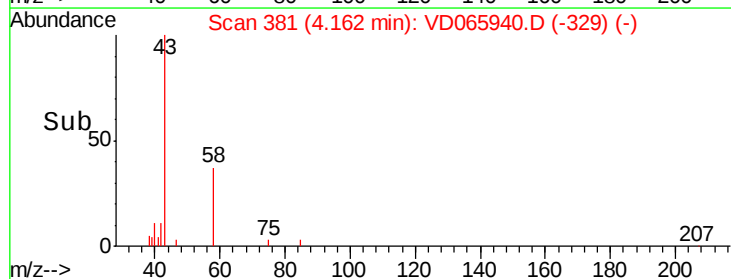
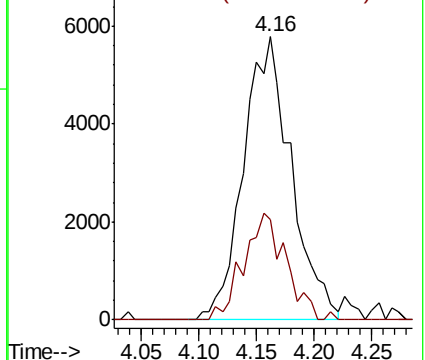
Ion Ratio Lower Upper

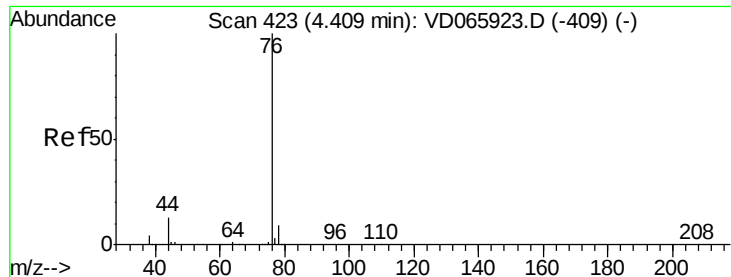
43 100

58 35.3 22.7 34.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

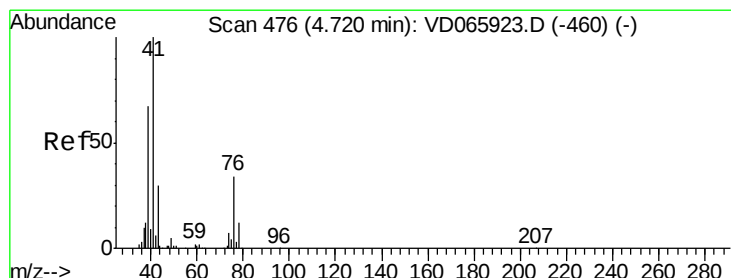
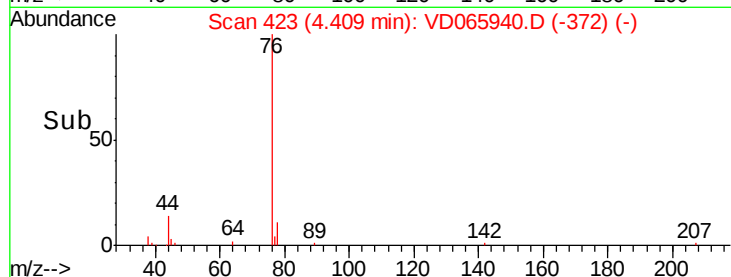
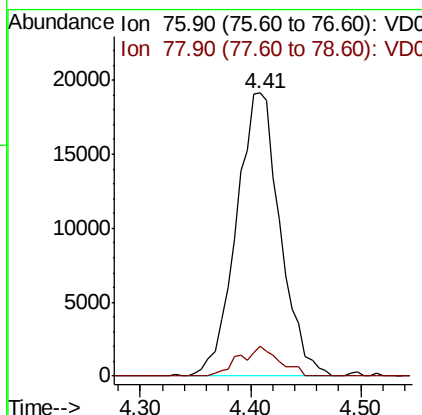
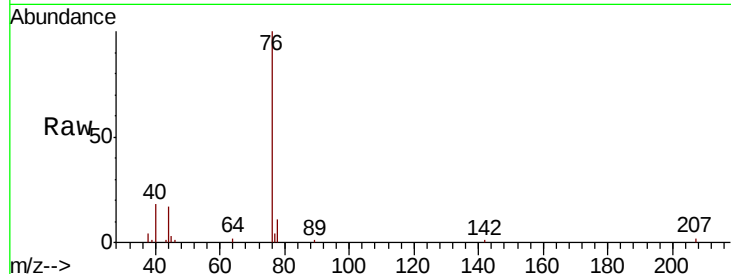




#17
Carbon Disulfide
Concen: 4.255 ug/l
RT: 4.41 min Scan# 423
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

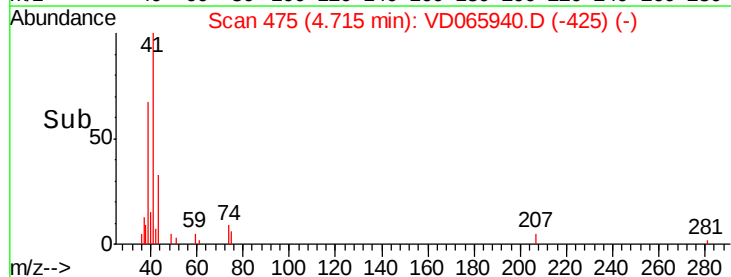
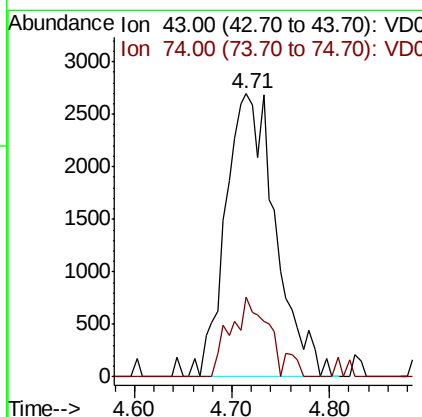
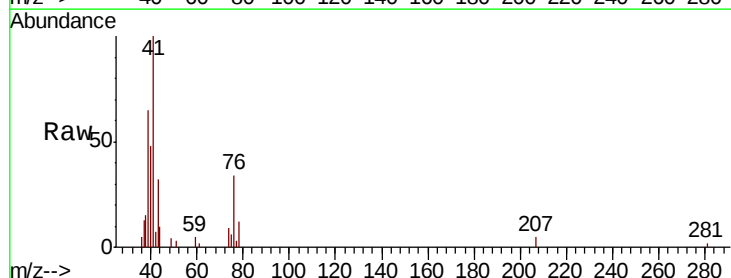
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

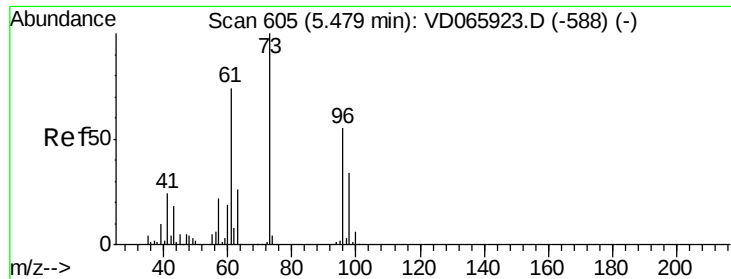
Tot Ion: 76 Resp: 53211
Ion Ratio Lower Upper
76 100
78 10.8 7.5 11.3



#18
Methyl Acetate
Concen: 4.886 ug/l
RT: 4.71 min Scan# 475
Delta R.T. -0.01 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion: 43 Resp: 9633
Ion Ratio Lower Upper
43 100
74 20.1 17.8 26.8

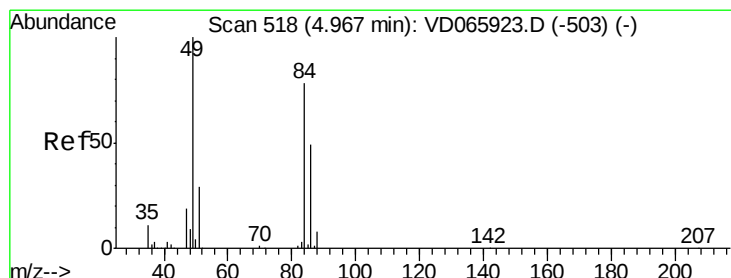
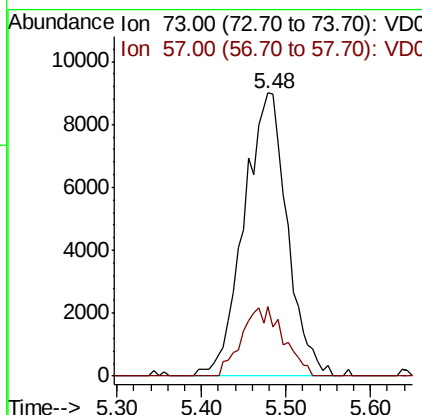
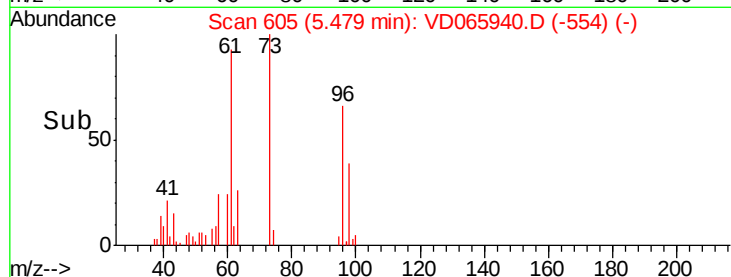
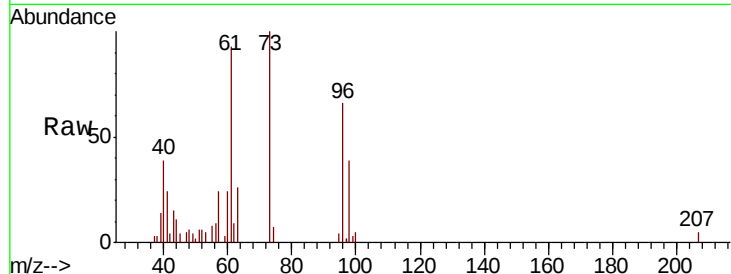




#19
Methyl tert-butyl Ether
Concen: 3.854 ug/l
RT: 5.48 min Scan# 605
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

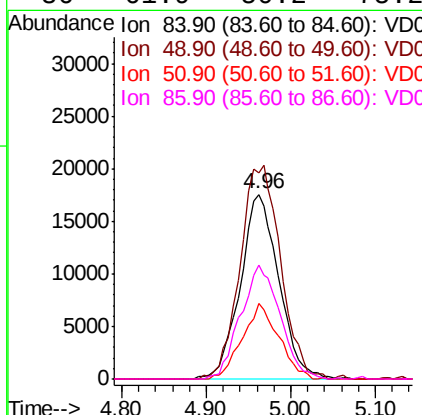
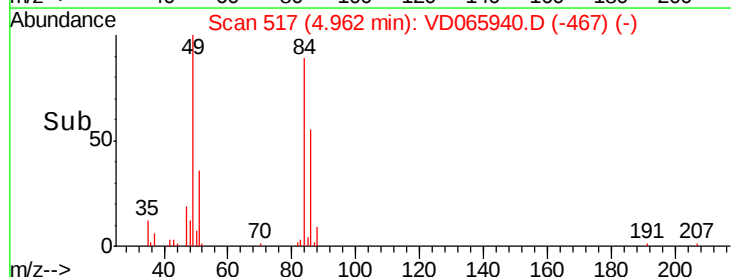
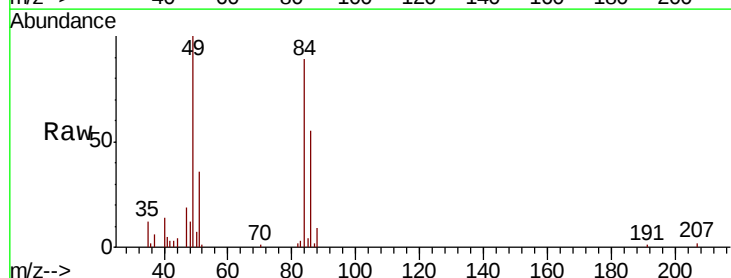
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

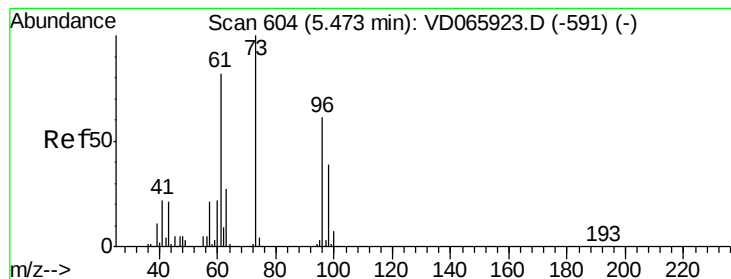
Tot Ion: 73 Resp: 32022
Ion Ratio Lower Upper
73 100
57 24.5 17.7 26.5



#20
Methylene Chloride
Concen: 9.292 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion: 84 Resp: 55523
Ion Ratio Lower Upper
84 100
49 111.9 102.2 153.2
51 40.7 29.8 44.6
86 61.9 50.2 75.2





#21

trans-1,2-Dichloroethene

Concen: 4.417 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

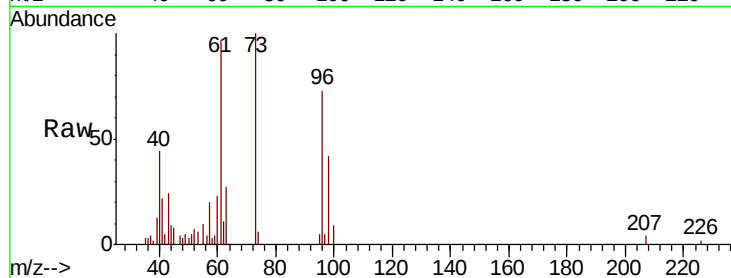
Tot Ion: 96 Resp: 19504

Ion Ratio Lower Upper

96 100

61 133.0 106.6 160.0

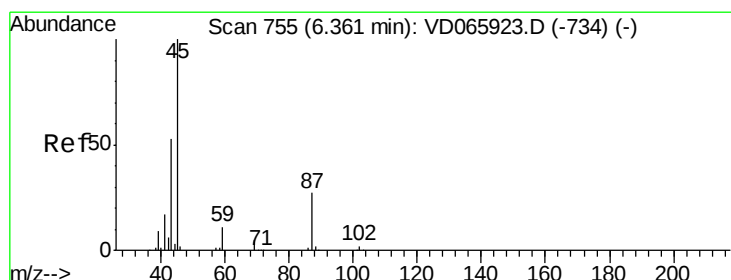
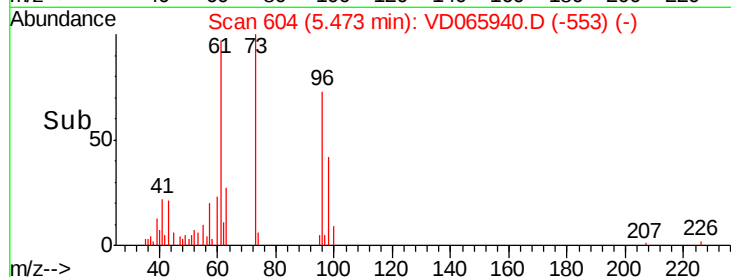
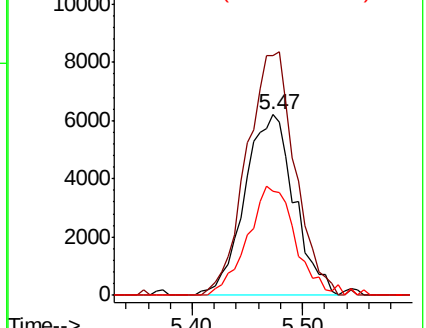
98 57.7 51.0 76.6



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: 3.846 ug/l

RT: 6.36 min Scan# 754

Delta R.T. -0.01 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Tgt Ion: 45 Resp: 48069

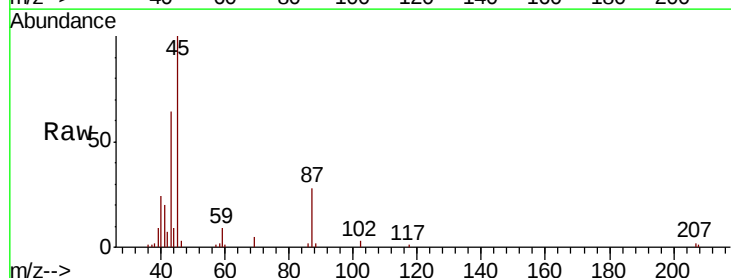
Ion Ratio Lower Upper

45 100

43 61.2 42.5 63.7

87 28.5 22.2 33.2

59 9.1 8.9 13.3

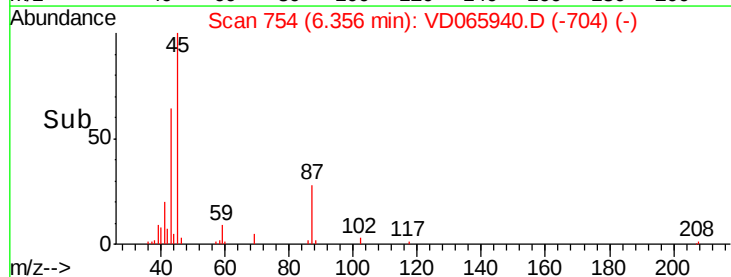
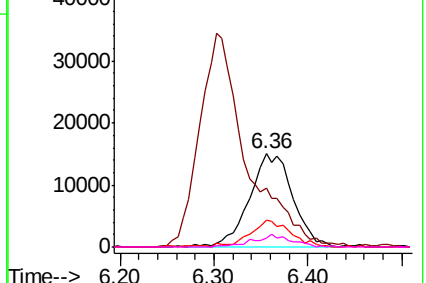


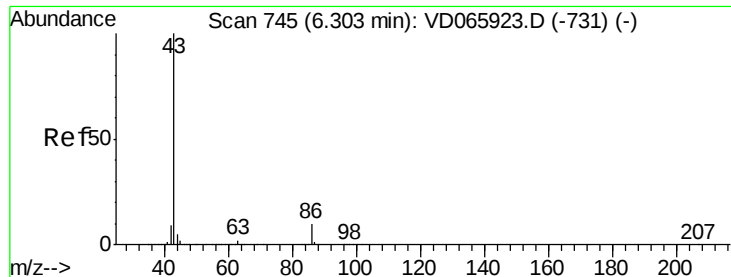
Abundance Ion 45.00 (44.70 to 45.70): VDC

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: 16.918 ug/l

RT: 6.30 min Scan# 745

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

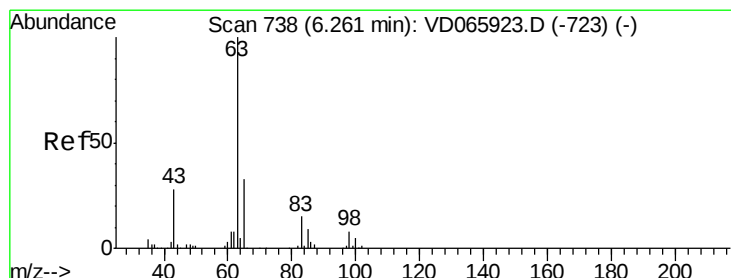
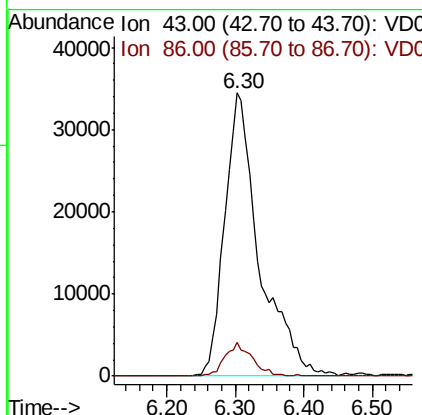
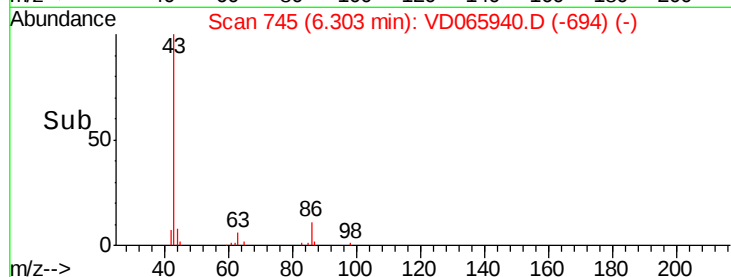
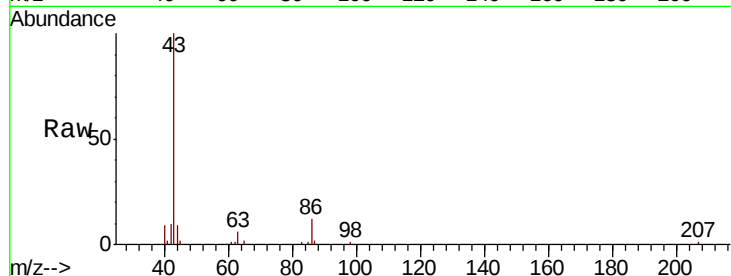
MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 120703

Ion Ratio Lower Upper

43 100

86 12.0 8.1 12.1



#24

1,1-Dichloroethane

Concen: 4.197 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

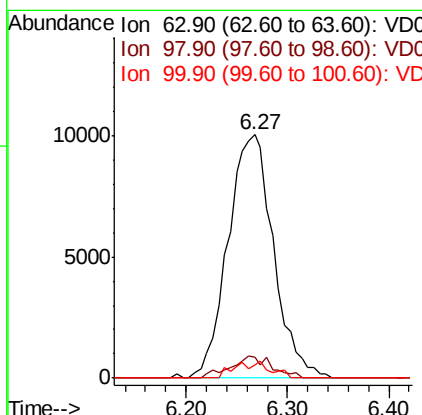
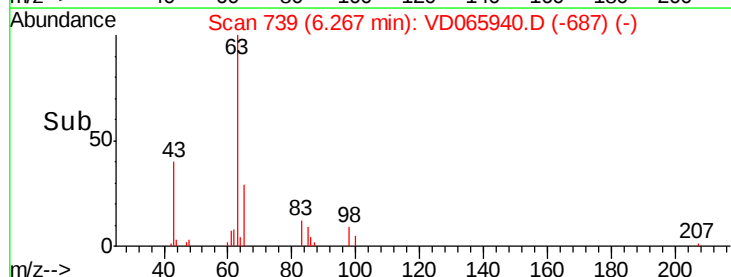
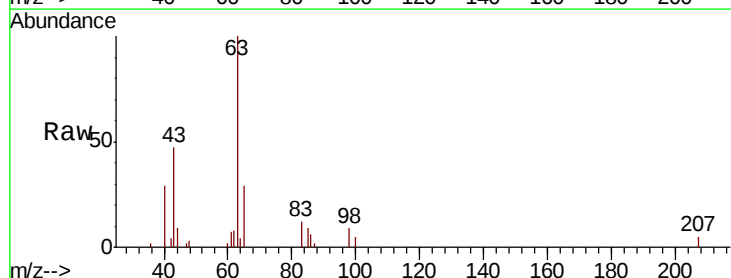
Tgt Ion: 63 Resp: 31280

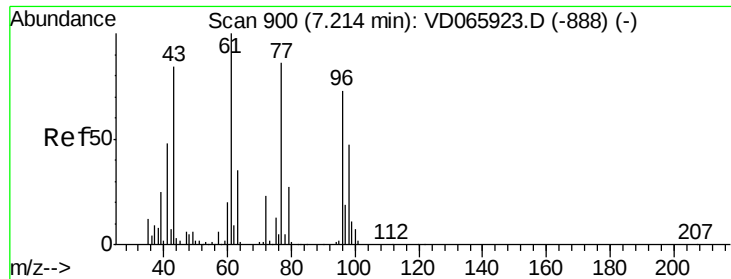
Ion Ratio Lower Upper

63 100

98 8.7 3.8 11.4

100 5.4 2.5 7.5





#25

2-Butanone

Concen: 19.152 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

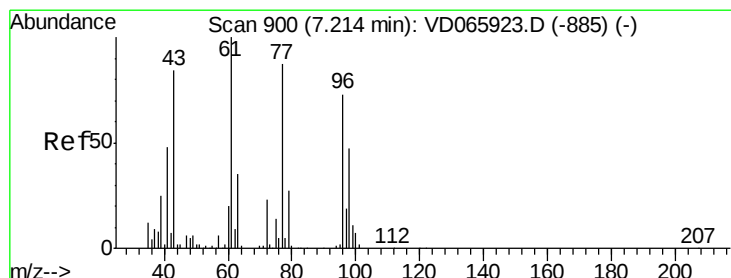
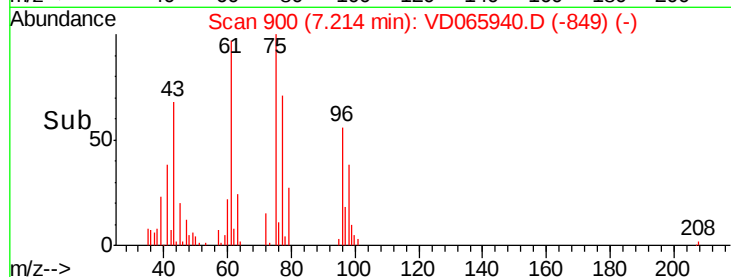
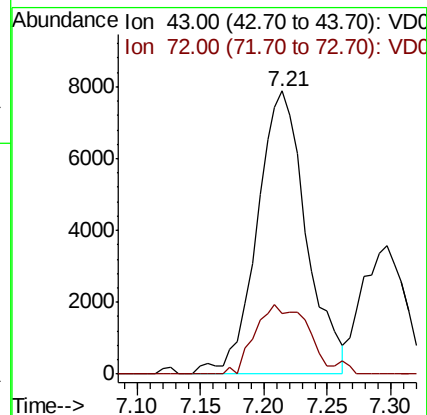
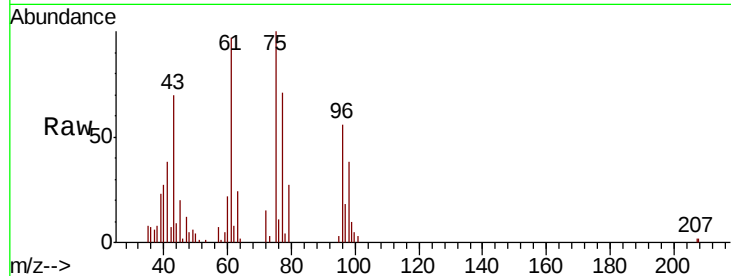
MDL-SOIL-03-QT3-2020DL

Tot Ion: 43 Resp: 21287

Ion Ratio Lower Upper

43 100

72 21.4 22.1 33.1#



#26

2,2-Dichloropropane

Concen: 4.363 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD065940.D

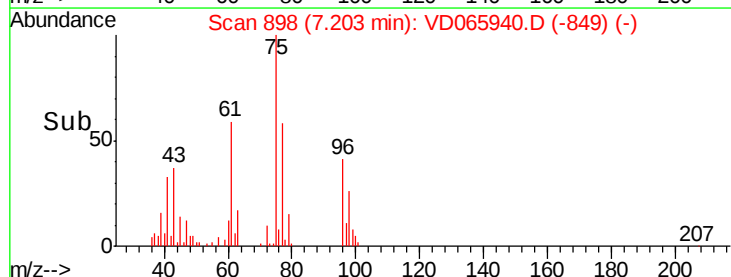
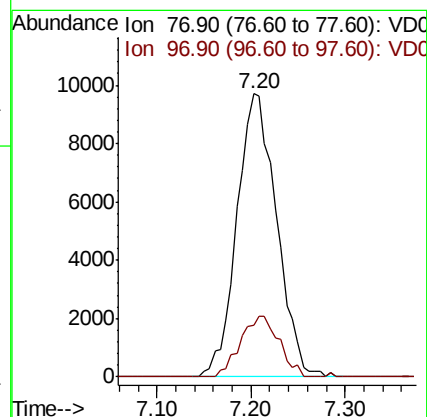
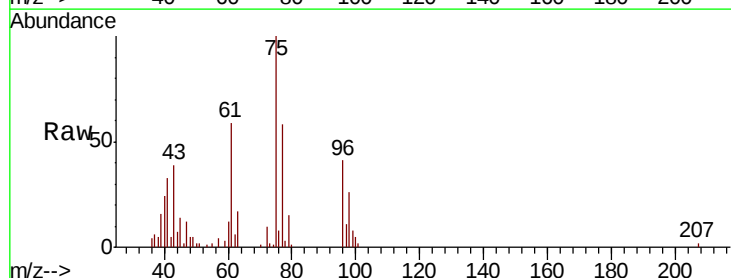
Acq: 08 Jul 2020 15:10

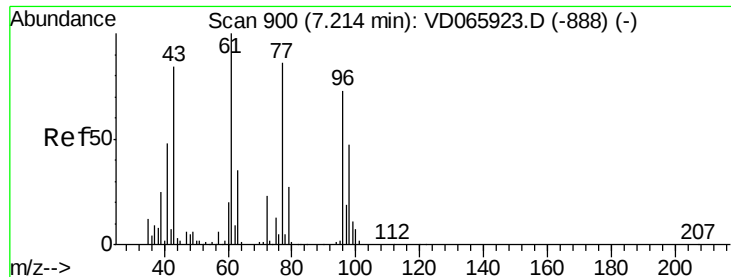
Tgt Ion: 77 Resp: 28451

Ion Ratio Lower Upper

77 100

97 20.8 11.6 34.8





#27

cis-1,2-Dichloroethene

Concen: 4.031 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

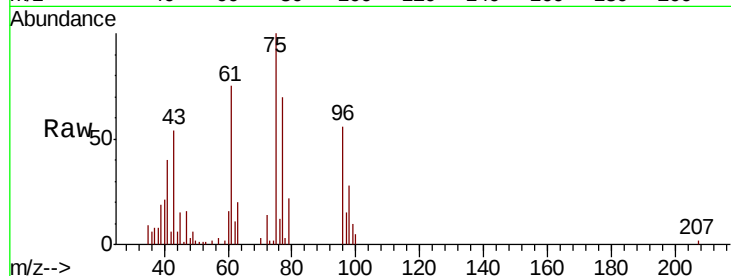
Tot Ion: 96 Resp: 19127

Ion Ratio Lower Upper

96 100

61 149.8 0.0 286.6

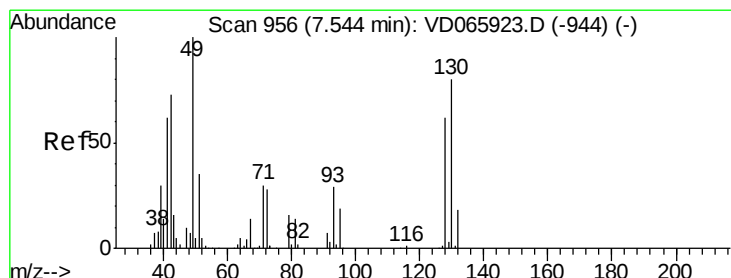
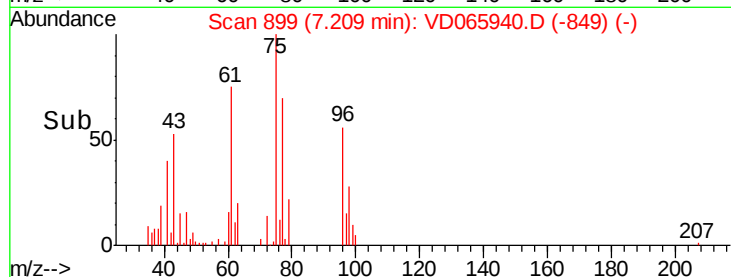
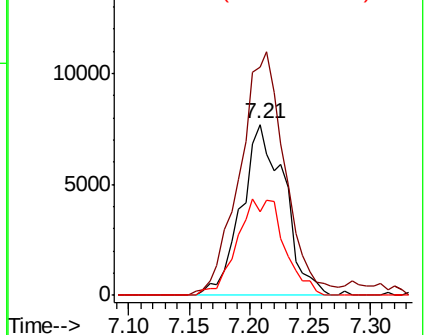
98 61.4 0.0 128.2



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: 4.452 ug/l

RT: 7.54 min Scan# 956

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

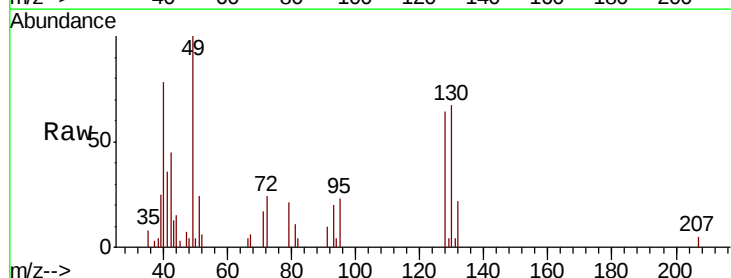
Tgt Ion: 49 Resp: 12534

Ion Ratio Lower Upper

49 100

129 0.6 0.0 4.8

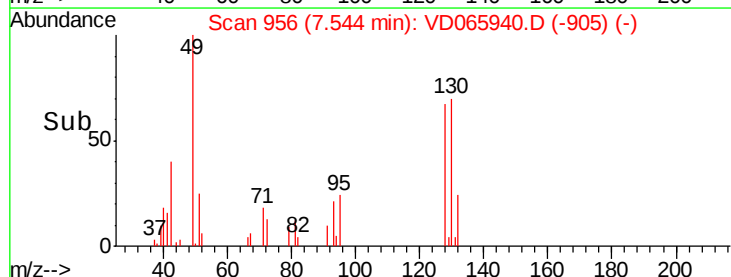
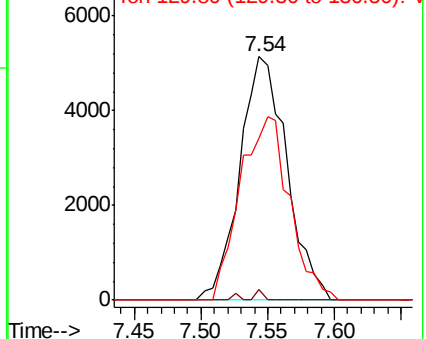
130 79.2 65.8 98.8

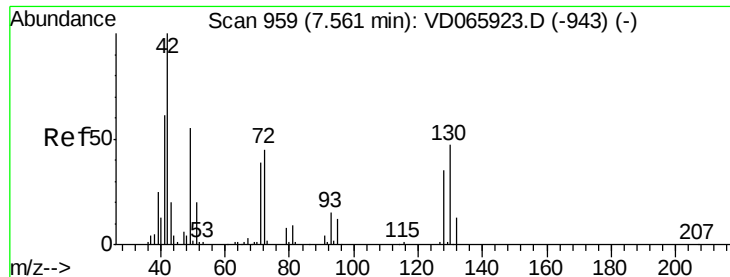


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

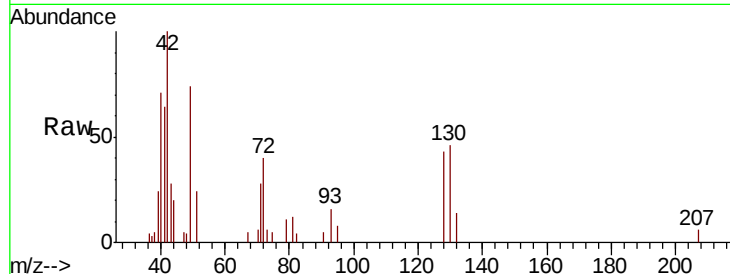




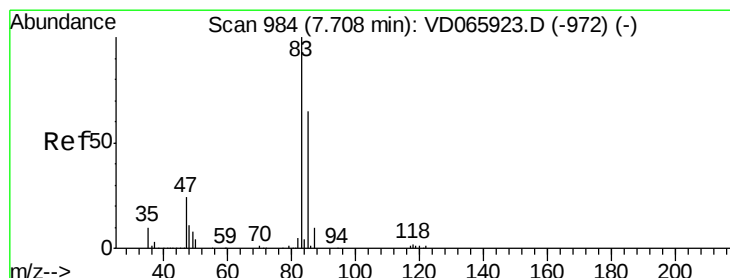
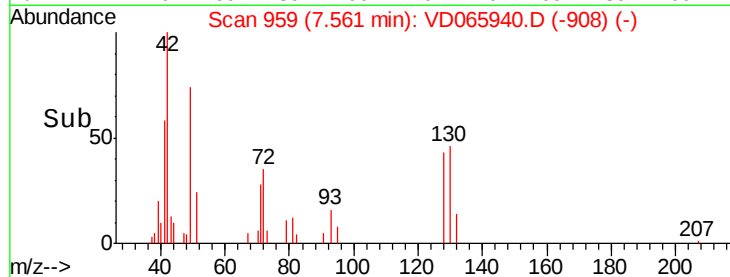
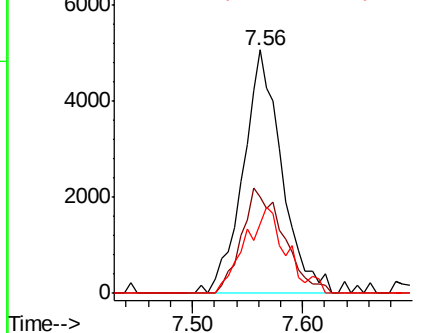
#29
Tetrahydrofuran
Concen: 17.531 ug/l
RT: 7.56 min Scan# 959
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

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

Tot Ion: 42 Resp: 12390
Ion Ratio Lower Upper
42 100
72 46.9 32.8 49.2
71 38.1 31.0 46.4

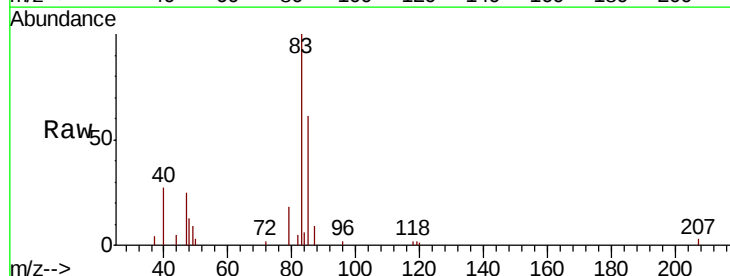


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

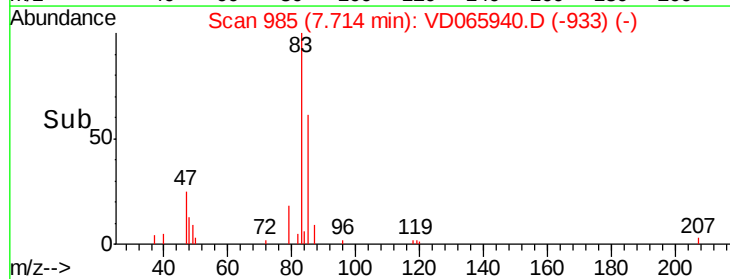
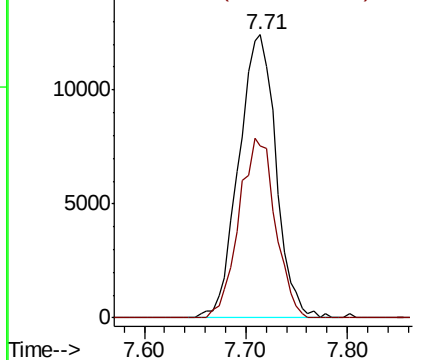


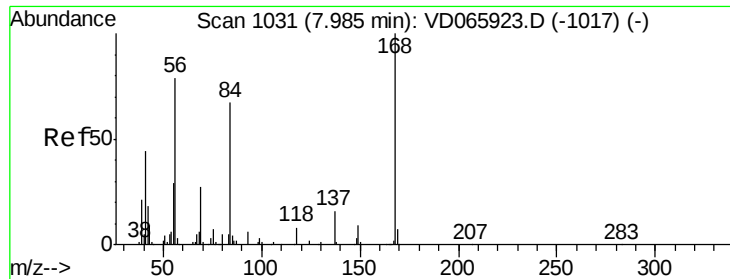
#30
Chloroform
Concen: 4.192 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.01 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion: 83 Resp: 31676
Ion Ratio Lower Upper
83 100
85 60.7 51.6 77.4



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

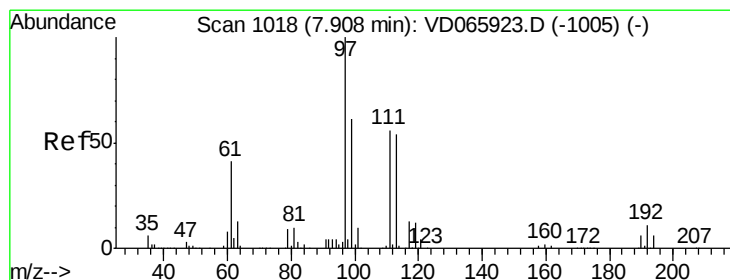
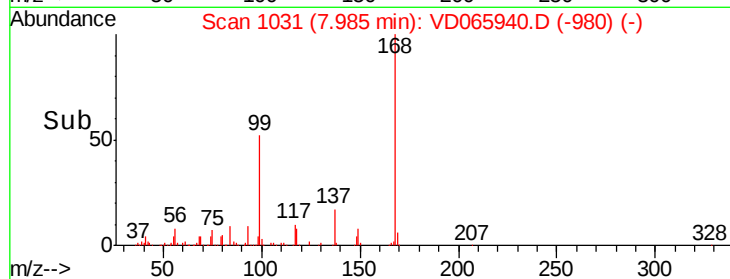
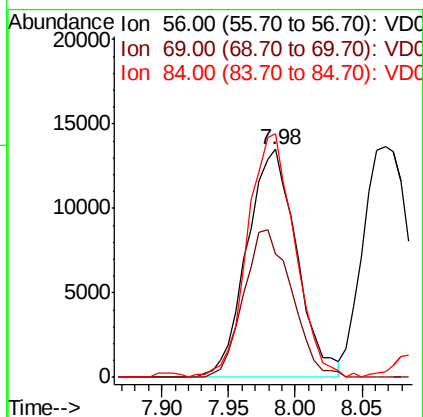
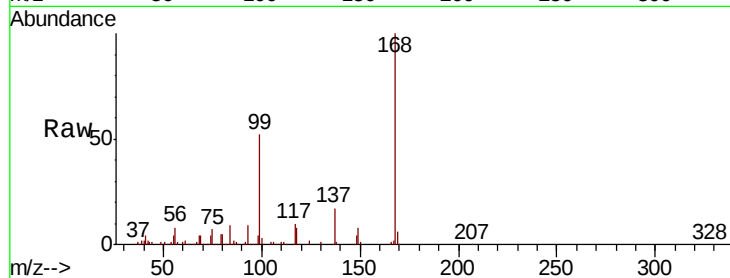




#31
Cyclohexane
Concen: 4.770 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

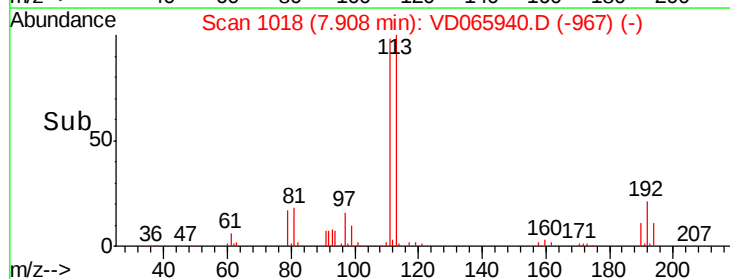
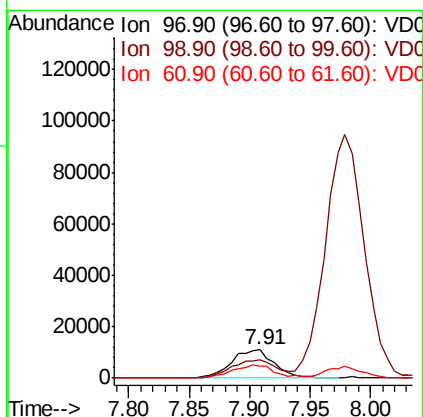
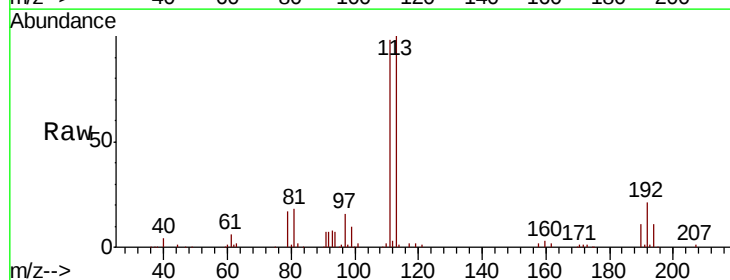
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

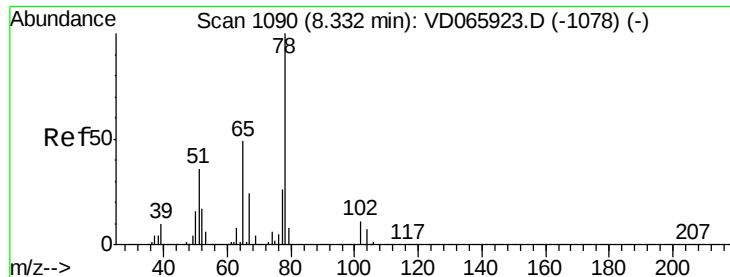
Tot Ion: 56 Resp: 34979
Ion Ratio Lower Upper
56 100
69 54.1 27.4 41.0#
84 106.9 68.6 102.8#



#32
1,1,1-Trichloroethane
Concen: 3.975 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion: 97 Resp: 27411
Ion Ratio Lower Upper
97 100
99 66.4 51.6 77.4
61 44.9 33.6 50.4

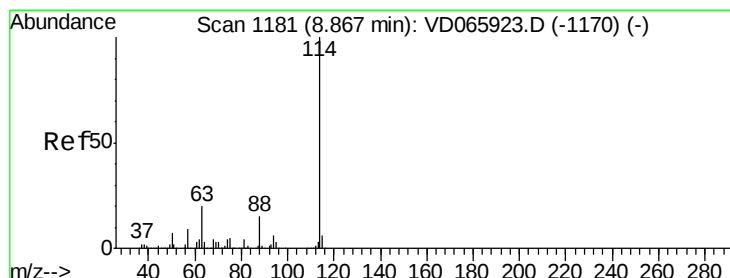
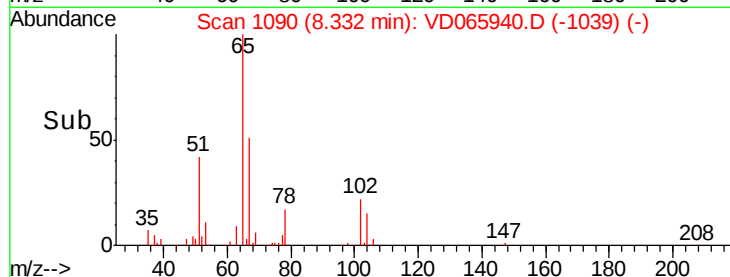
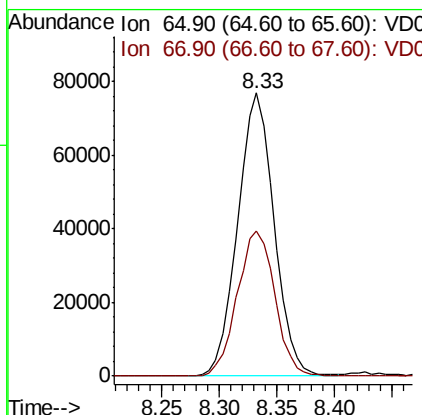
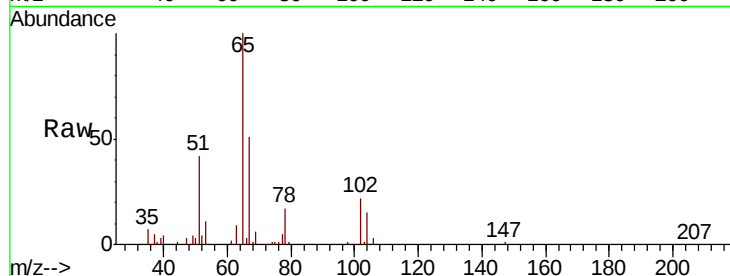




#33
 1,2-Dichloroethane-d4
 Concen: 47.079 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD065940.D
 Acq: 08 Jul 2020 15:10

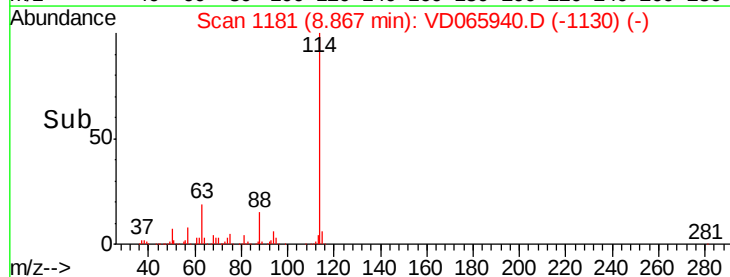
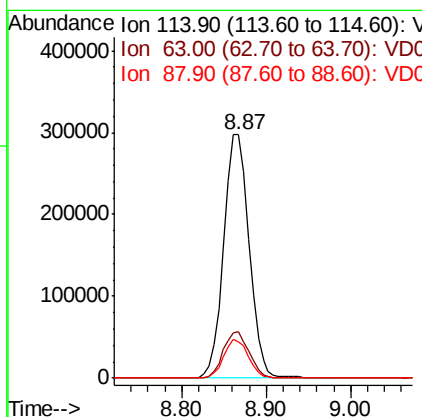
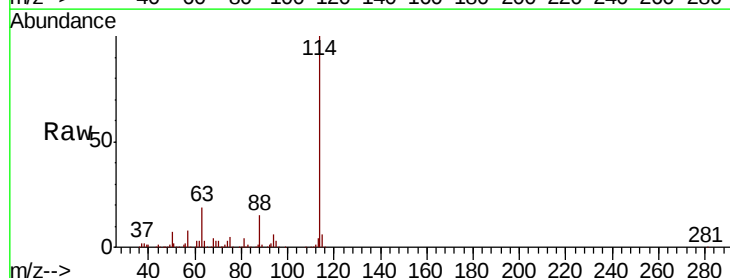
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

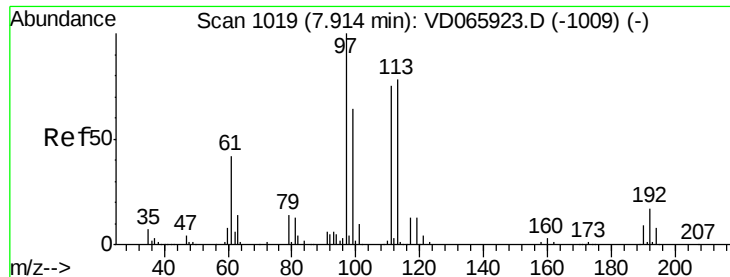
Tot Ion: 65 Resp: 168966
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065940.D
 Acq: 08 Jul 2020 15:10

Tgt Ion: 114 Resp: 619778
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.2
 88 14.7 0.0 30.0

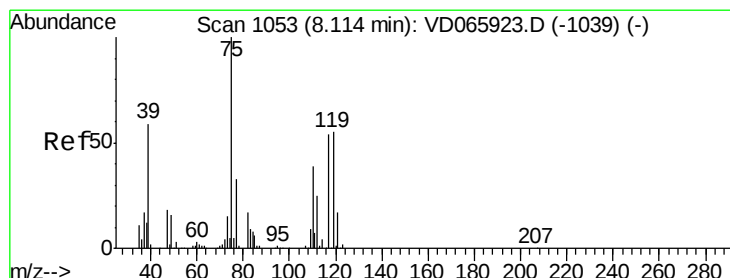
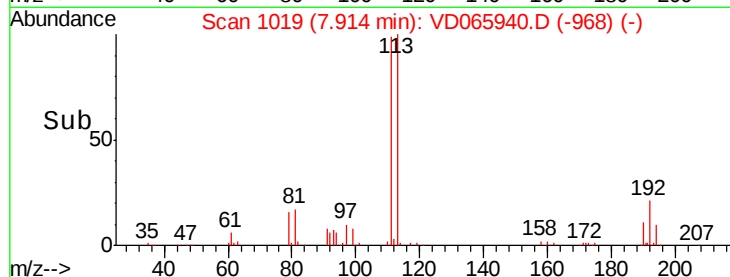
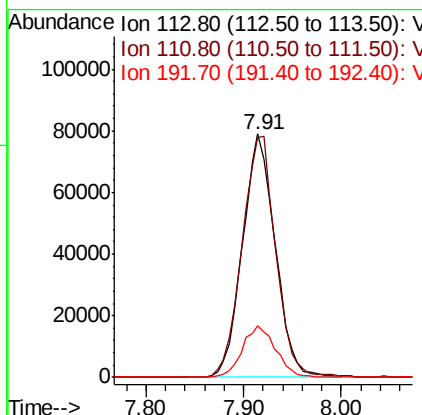
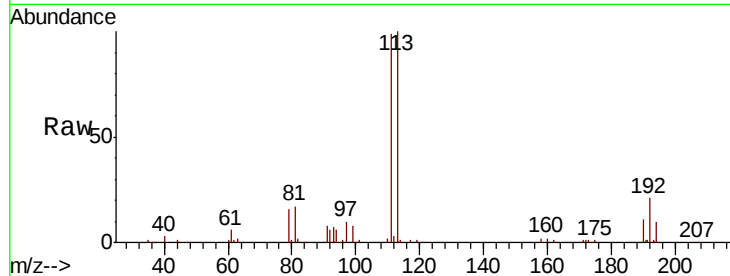




#35
 Dibromofluoromethane
 Concen: 48.306 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD065940.D
 Acq: 08 Jul 2020 15:10

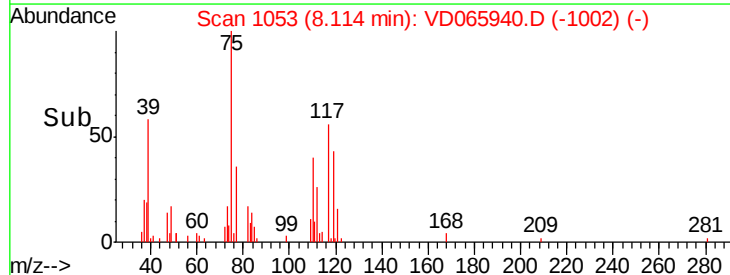
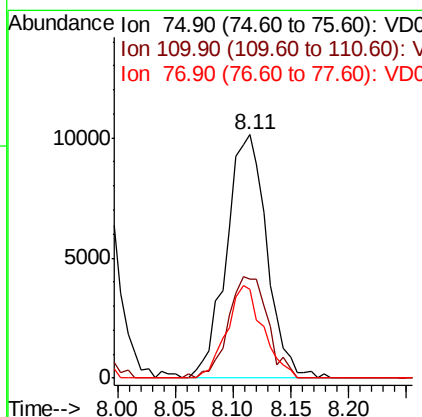
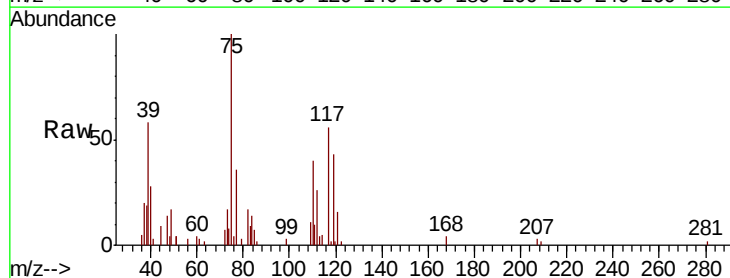
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

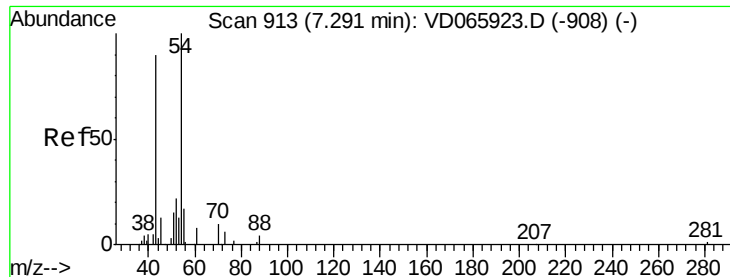
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	80.9	121.3
192	21.4	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.019 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD065940.D
 Acq: 08 Jul 2020 15:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	40.6	18.5	55.5
77	34.2	25.6	38.4

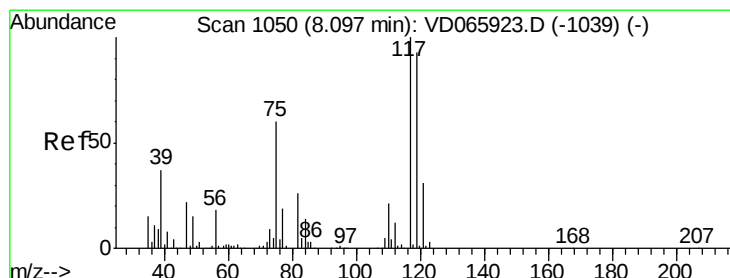
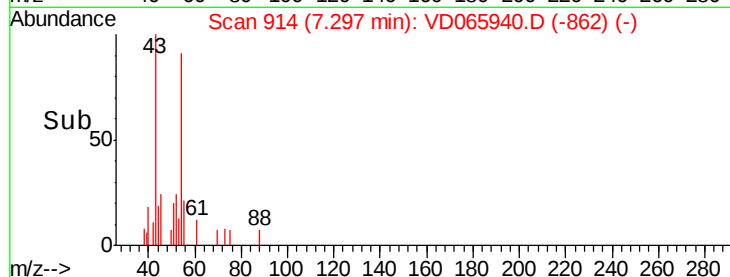
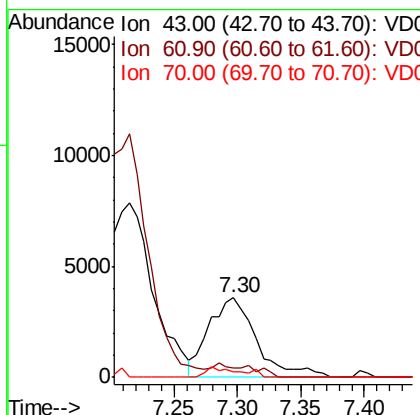
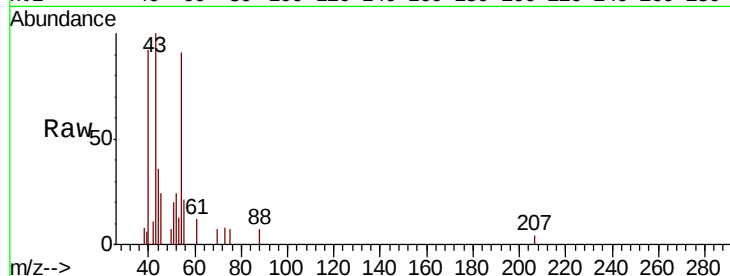




#37
Ethyl Acetate
Concen: 3.662 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

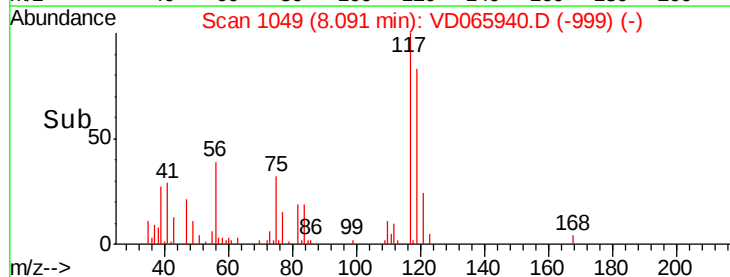
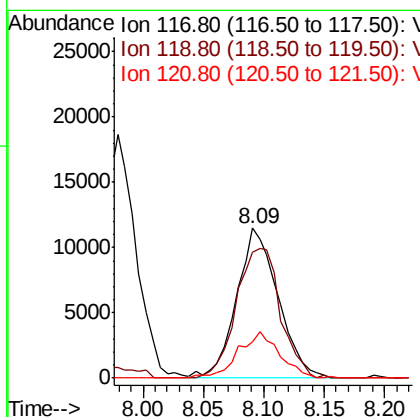
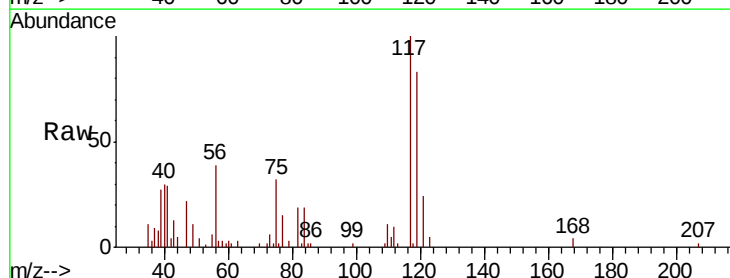
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

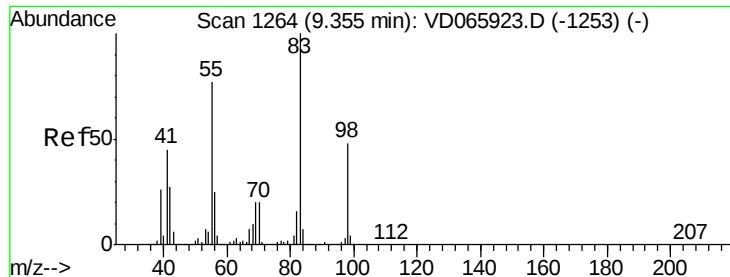
Tot Ion: 43 Resp: 9393
Ion Ratio Lower Upper
43 100
61 14.6 9.4 14.0#
70 8.9 8.3 12.5



#38
Carbon Tetrachloride
Concen: 4.188 ug/l
RT: 8.09 min Scan# 1049
Delta R.T. -0.01 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion: 117 Resp: 27476
Ion Ratio Lower Upper
117 100
119 83.5 74.7 112.1
121 24.1 24.9 37.3#

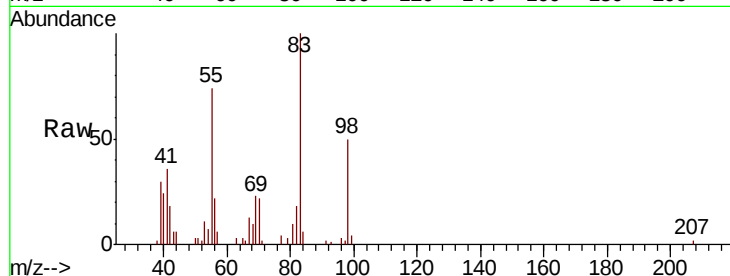




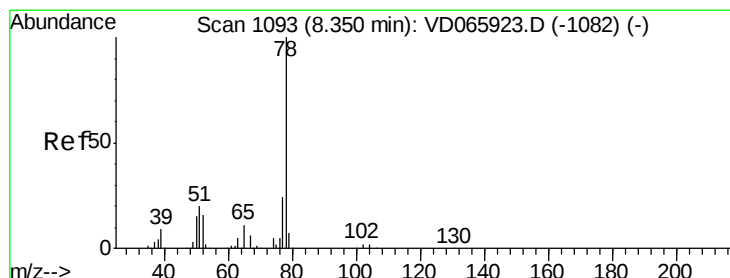
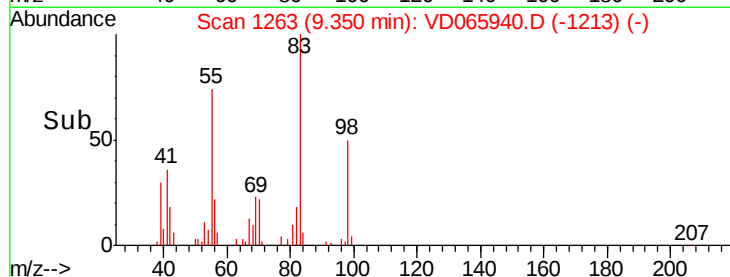
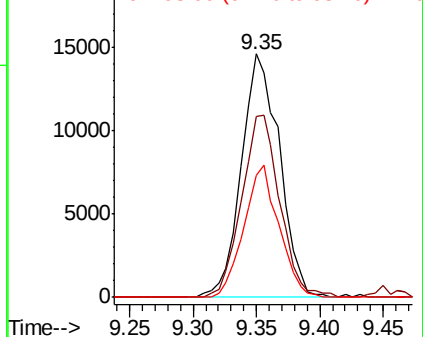
#39
Methylvlcyclohexane
Concen: 4.053 ug/l
RT: 9.35 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

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

Tot Ion: 83 Resp: 30461
Ion Ratio Lower Upper
83 100
55 74.3 61.7 92.5
98 50.1 38.6 58.0

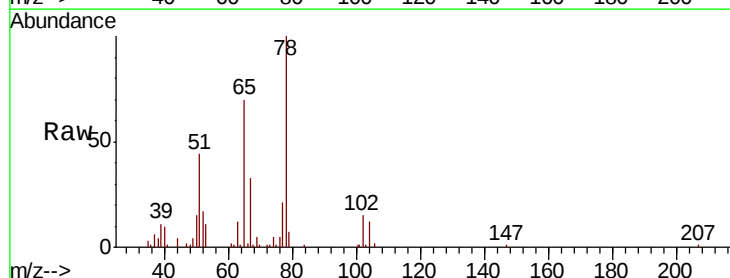


Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC

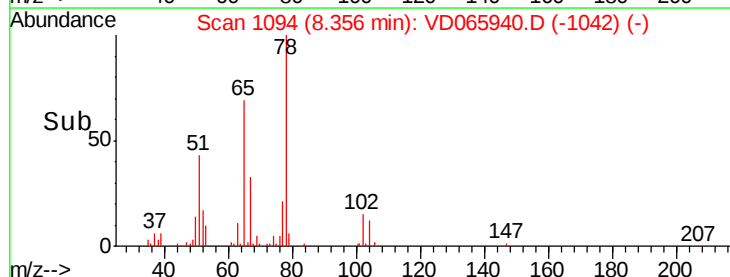
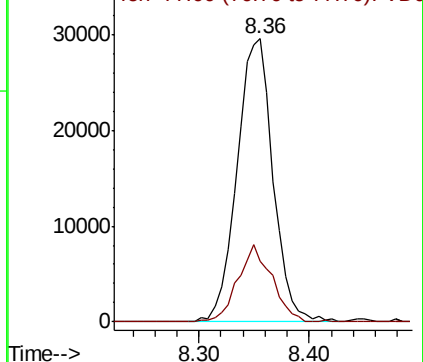


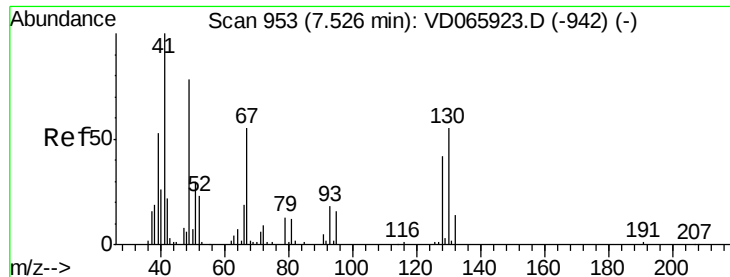
#40
Benzene
Concen: 3.993 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion: 78 Resp: 67529
Ion Ratio Lower Upper
78 100
77 21.3 19.4 29.0



Abundance Ion 78.00 (77.70 to 78.70): VDC
Ion 77.00 (76.70 to 77.70): VDC

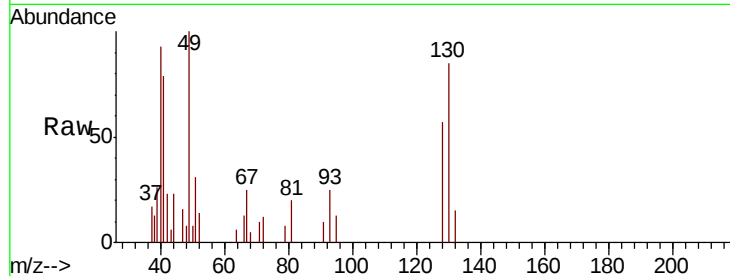




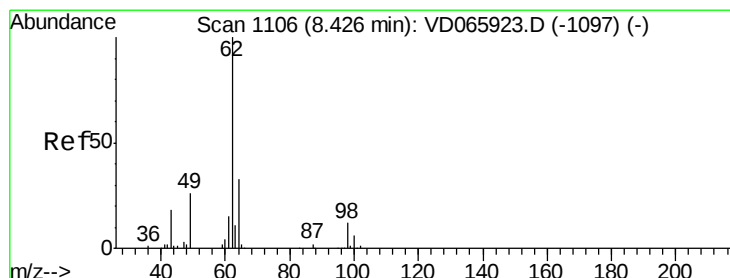
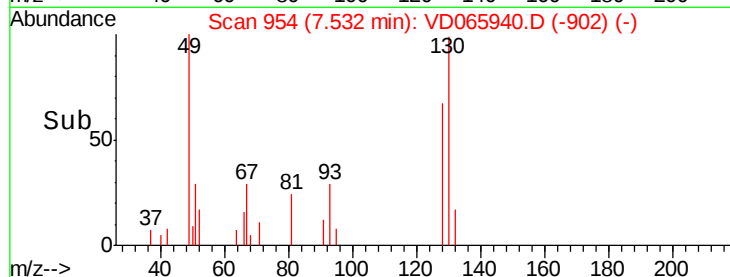
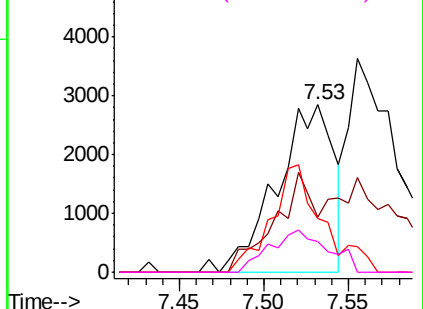
#41
Methacrylonitrile
Concen: 4.506 ug/l
RT: 7.53 min Scan# 954
Delta R.T. 0.01 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

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

Tot Ion: 41 Resp: 6710
Ion Ratio Lower Upper
41 100
39 41.4 42.4 63.6#
67 57.0 53.6 80.4
52 25.6 22.2 33.2

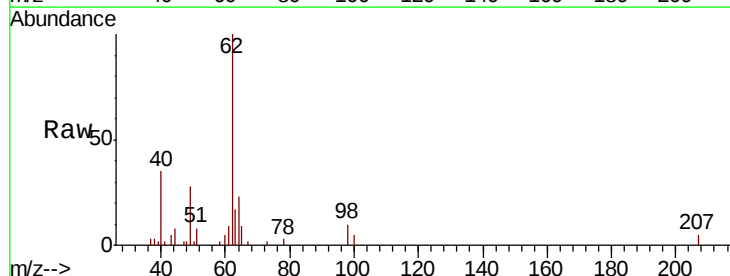


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

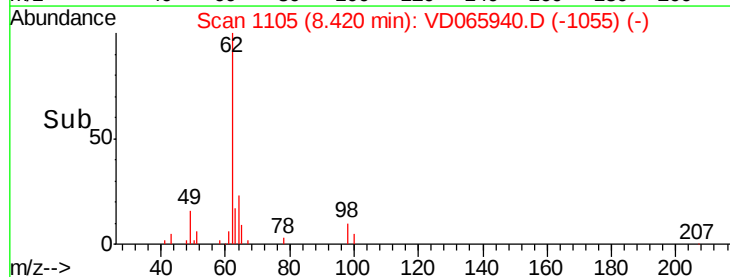
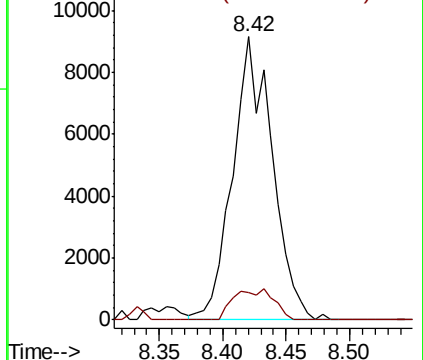


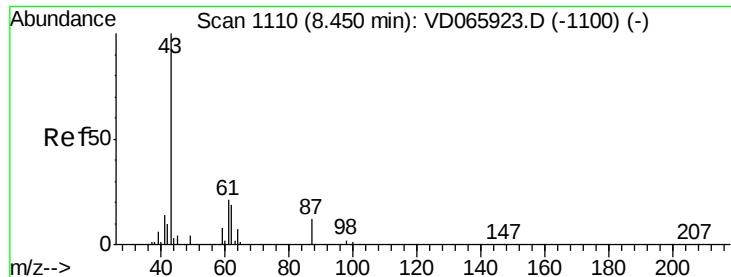
#42
1,2-Dichloroethane
Concen: 4.137 ug/l
RT: 8.42 min Scan# 1105
Delta R.T. -0.01 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion: 62 Resp: 19818
Ion Ratio Lower Upper
62 100
98 11.1 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: 3.889 ug/l

RT: 8.45 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

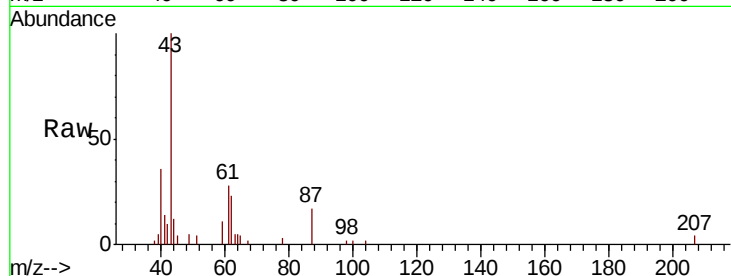
Tot Ion: 43 Resp: 18566

Ion Ratio Lower Upper

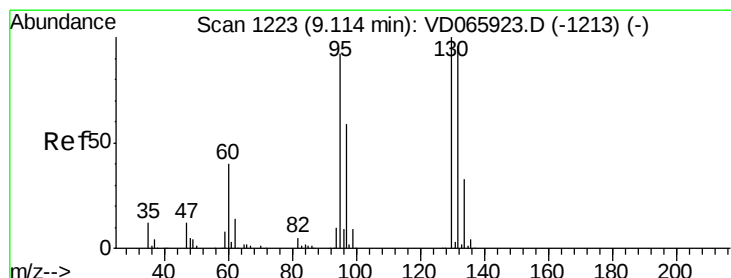
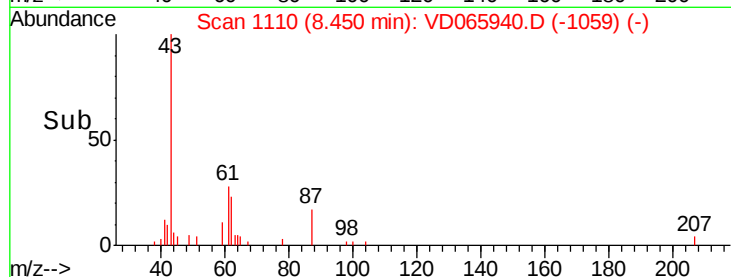
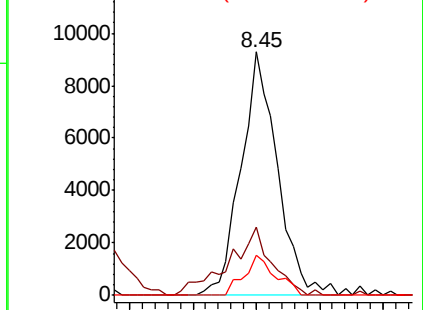
43 100

61 32.7 23.2 34.8

87 14.0 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: 4.235 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. 0.00 min

Lab File: VD065940.D

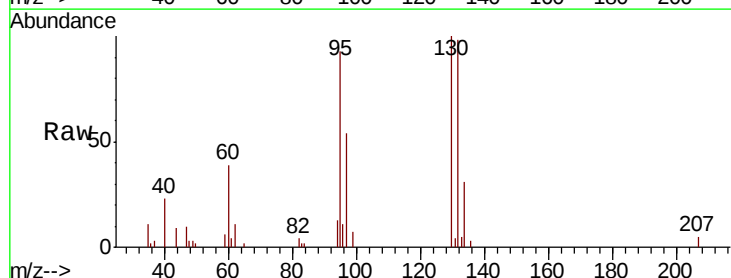
Acq: 08 Jul 2020 15:10

Tgt Ion:130 Resp: 21042

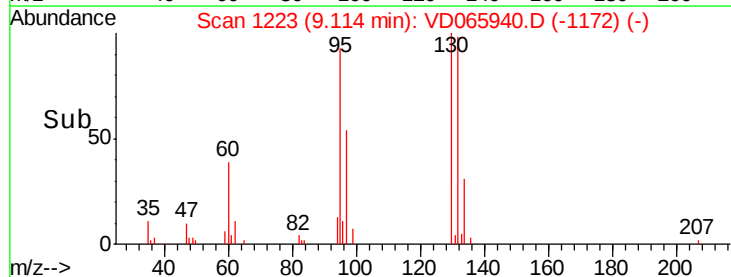
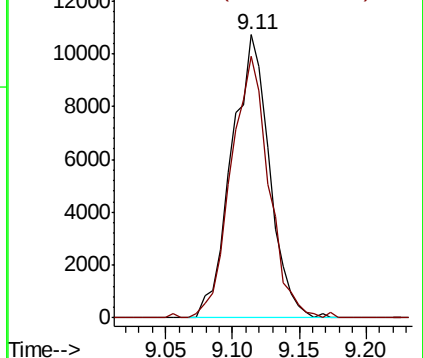
Ion Ratio Lower Upper

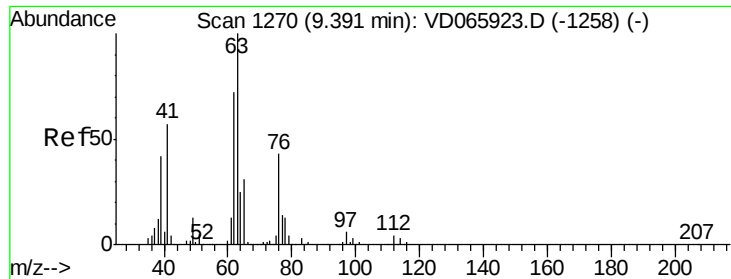
130 100

95 92.5 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: 3.991 ug/l

RT: 9.38 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

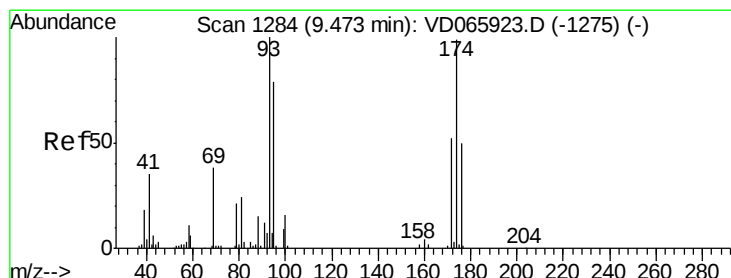
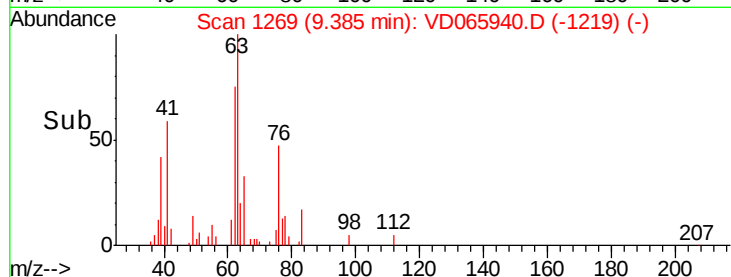
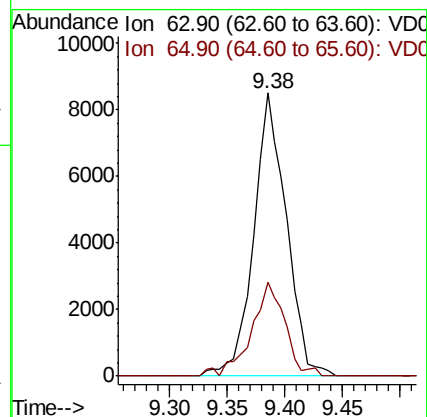
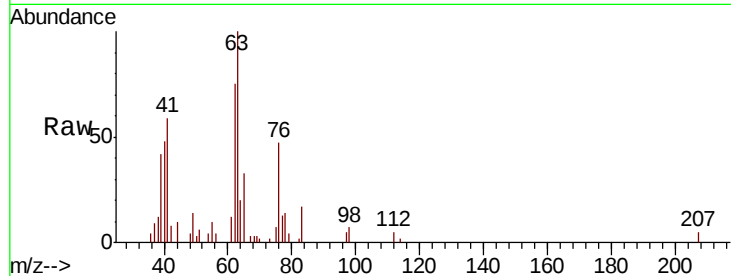
MDL-SOIL-03-QT3-2020DL

Tot Ion: 63 Resp: 16752

Ion Ratio Lower Upper

63 100

65 33.1 25.0 37.6



#46

Dibromomethane

Concen: 4.105 ug/l

RT: 9.47 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

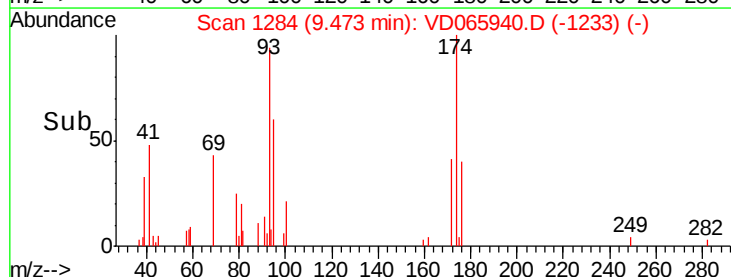
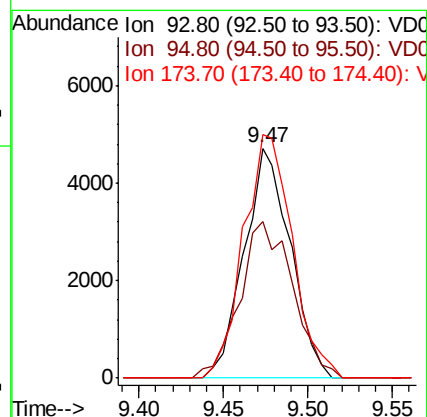
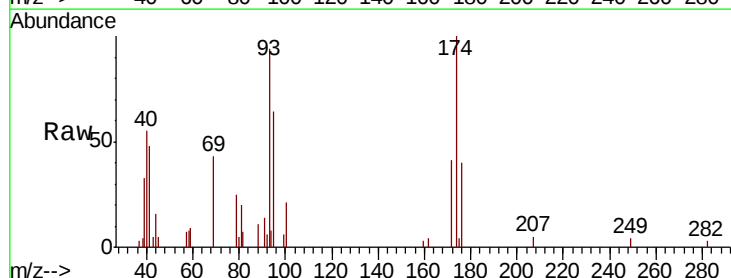
Tgt Ion: 93 Resp: 8971

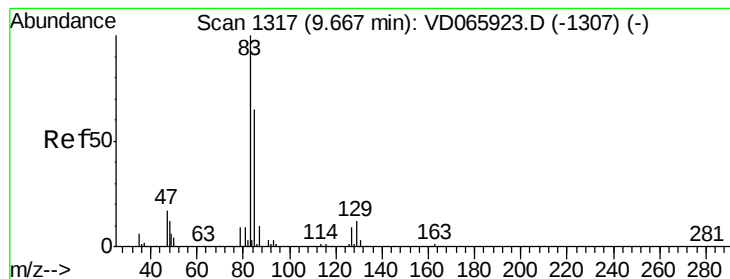
Ion Ratio Lower Upper

93 100

95 78.2 68.2 102.2

174 111.9 88.0 132.0





#47

Bromodichloromethane

Concen: 3.777 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

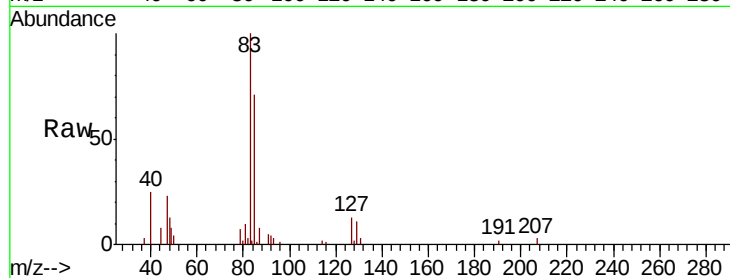
Tot Ion: 83 Resp: 22141

Ion Ratio Lower Upper

83 100

85 70.8 51.6 77.4

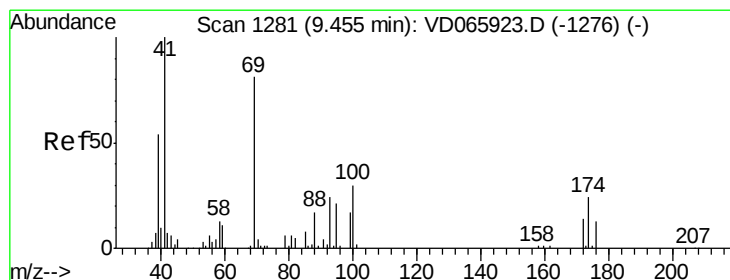
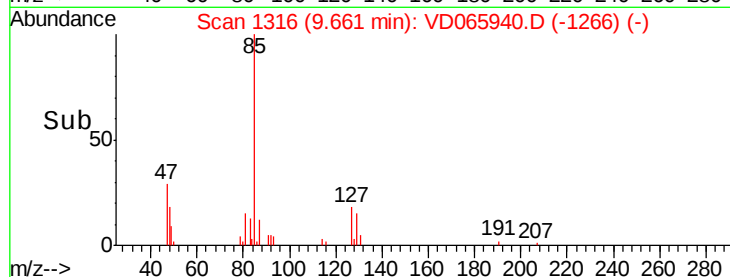
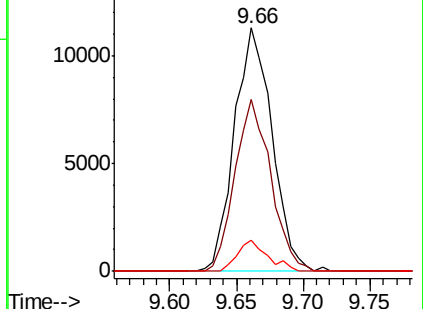
127 13.0 7.2 10.8#



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: 3.263 ug/l

RT: 9.45 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

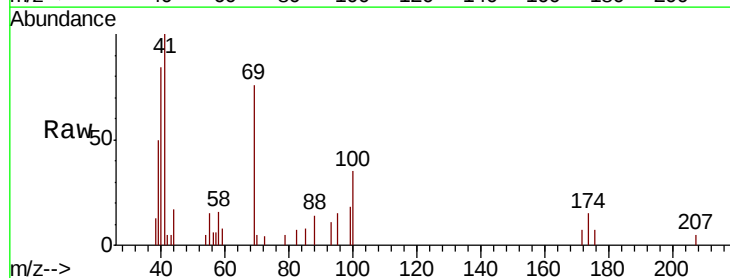
Tgt Ion: 41 Resp: 7842

Ion Ratio Lower Upper

41 100

69 96.3 62.2 93.4#

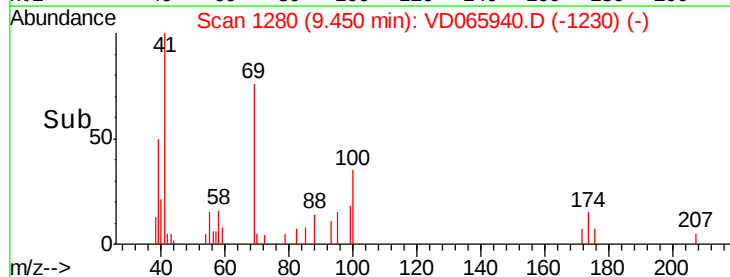
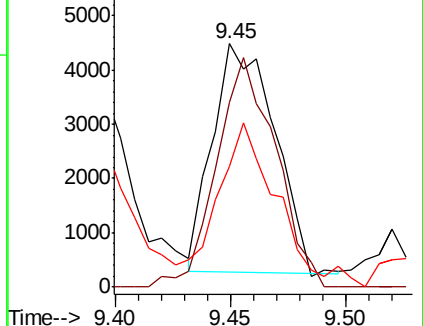
39 70.4 39.9 59.9#

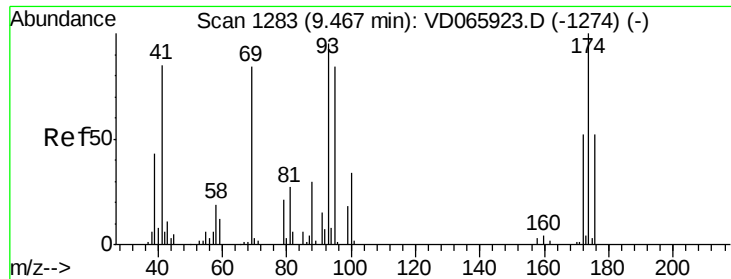


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

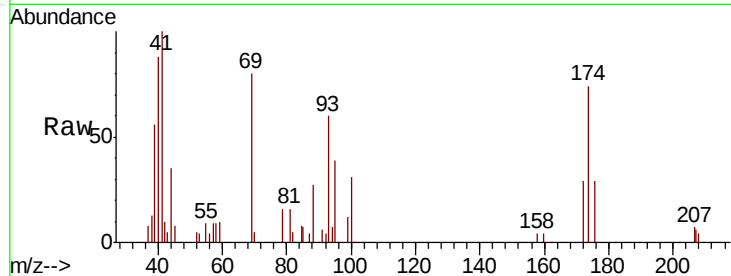




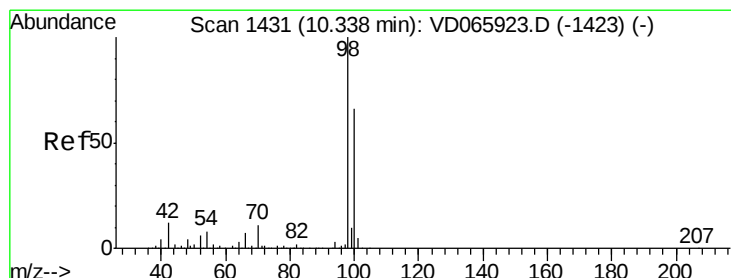
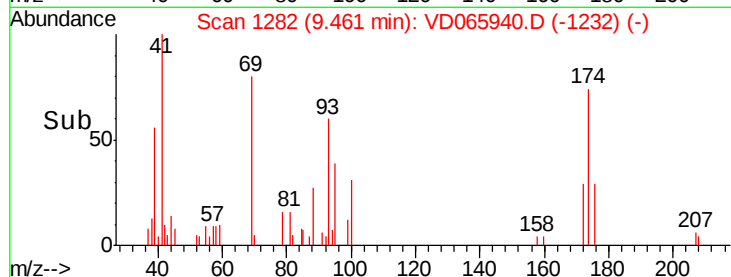
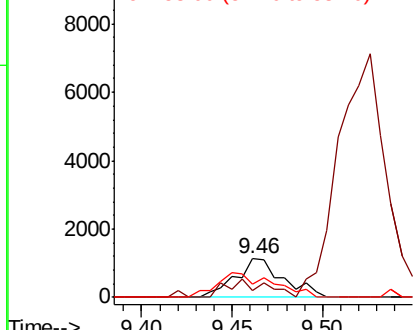
#49
1,4-Dioxane
Concen: 79.033 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. -0.01 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

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

Tot Ion: 88 Resp: 2052
Ion Ratio Lower Upper
88 100
43 39.2 28.2 42.4
58 74.5 58.6 87.8

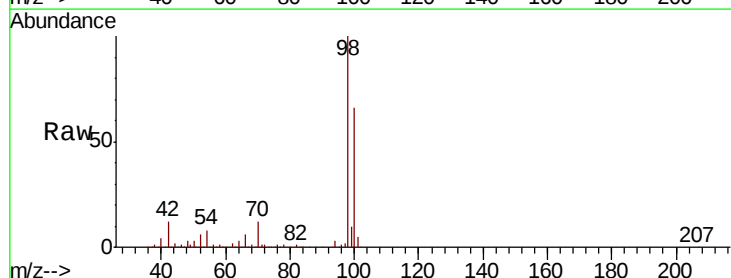


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

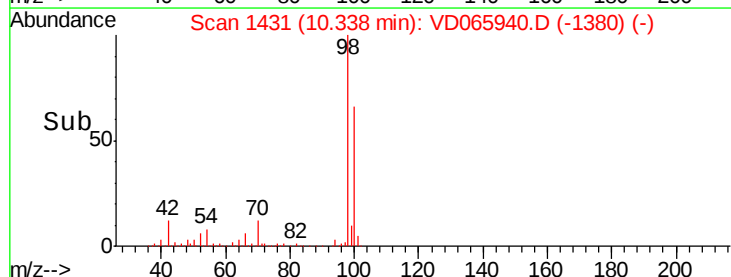
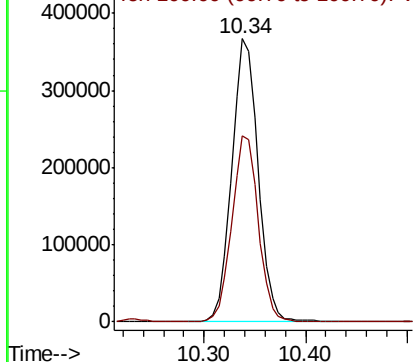


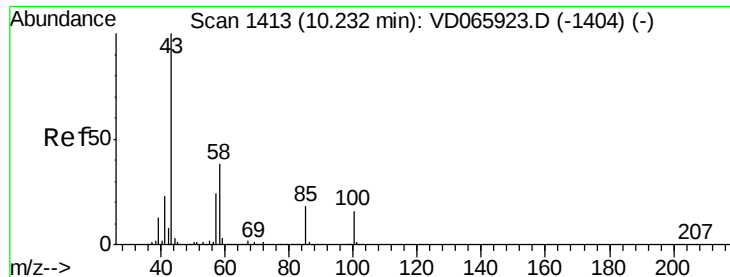
#50
Toluene-d8
Concen: 47.348 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion: 98 Resp: 660505
Ion Ratio Lower Upper
98 100
100 66.4 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC

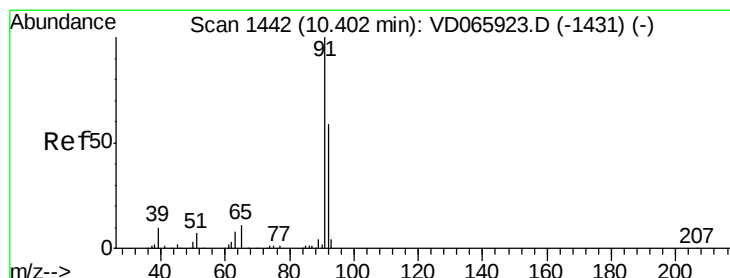
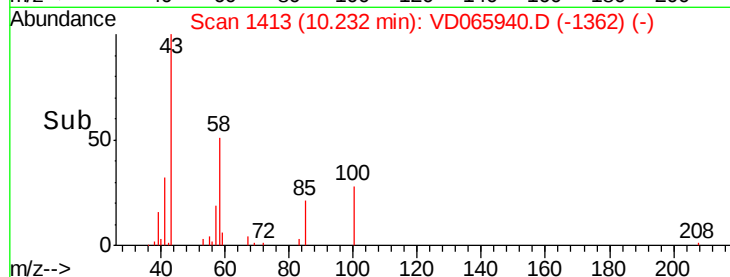
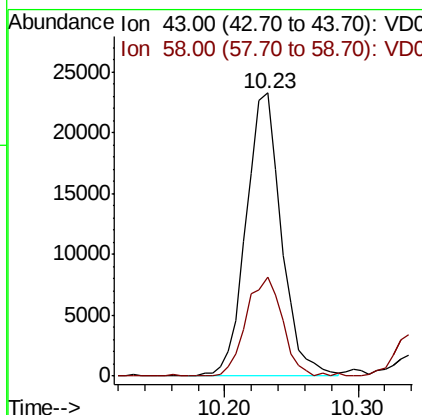
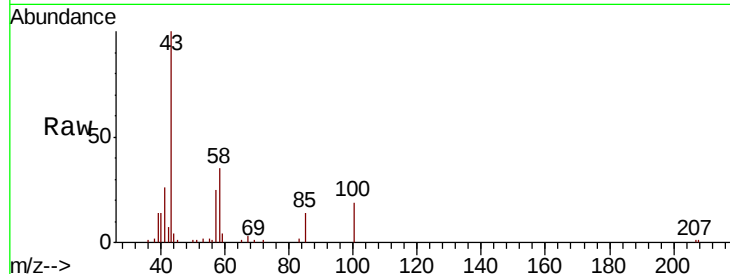




#51
4-Methyl-2-Pentanone
Concen: 17.603 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

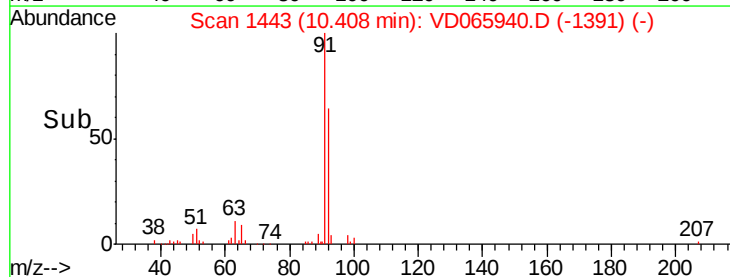
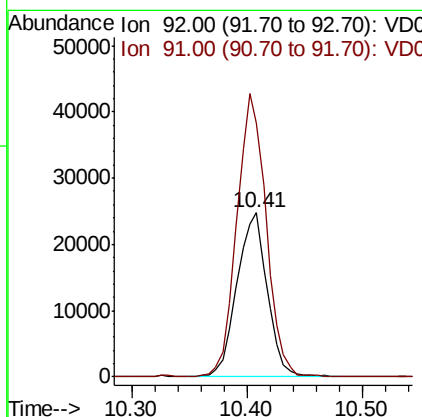
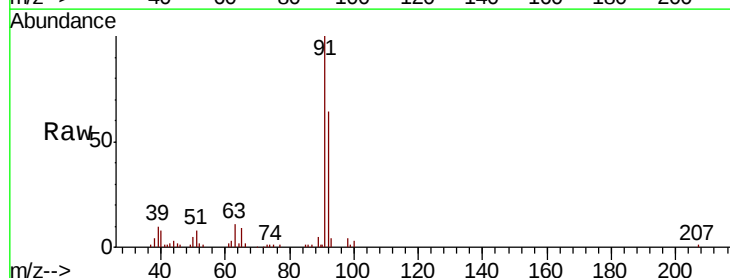
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

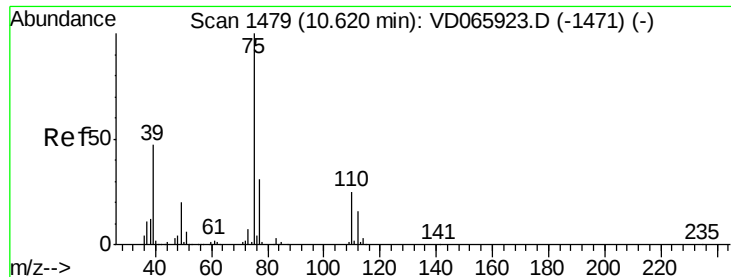
Tot Ion: 43 Resp: 42487
Ion Ratio Lower Upper
43 100
58 36.1 30.5 45.7



#52
Toluene
Concen: 4.179 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.01 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion: 92 Resp: 44957
Ion Ratio Lower Upper
92 100
91 167.2 136.0 204.0





#53

t-1,3-Dichloropropene

Concen: 3.966 ug/l

RT: 10.62 min Scan# 1479

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

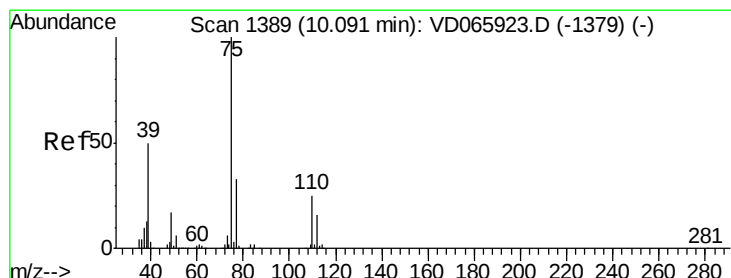
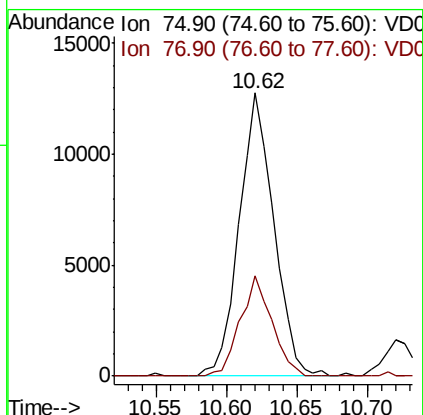
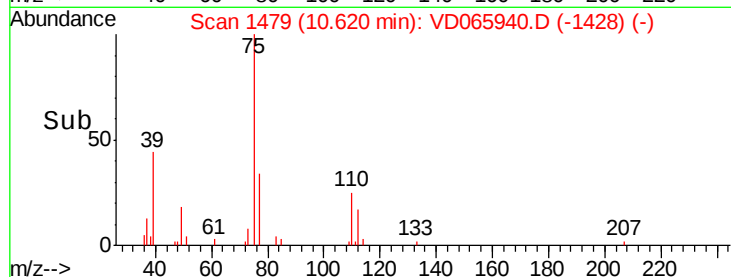
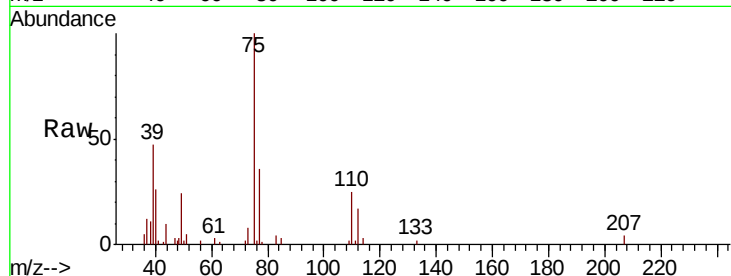
MDL-SOIL-03-QT3-2020DL

Tot Ion: 75 Resp: 21857

Ion Ratio Lower Upper

75 100

77 35.6 25.1 37.7



#54

cis-1,3-Dichloropropene

Concen: 3.748 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

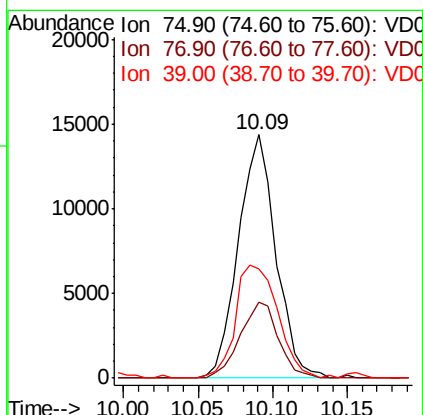
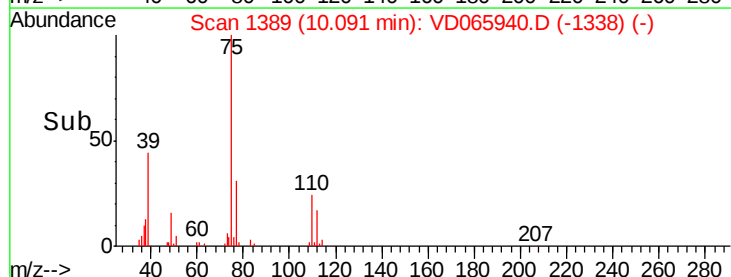
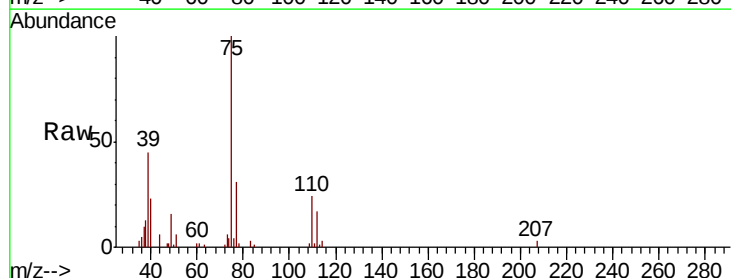
Tgt Ion: 75 Resp: 24961

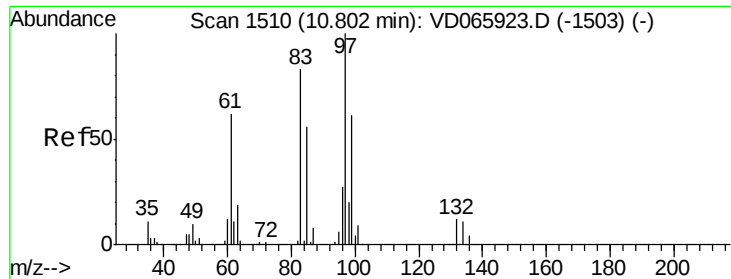
Ion Ratio Lower Upper

75 100

77 31.3 26.6 39.8

39 44.6 39.6 59.4





#55

1,1,2-Trichloroethane

Concen: 4.058 ug/l

RT: 10.80 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

Tot Ion: 97 Resp: 12217

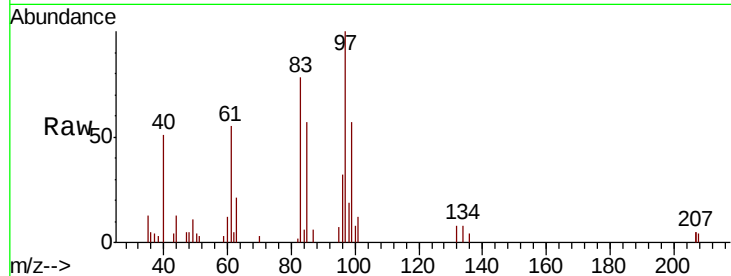
Ion	Ratio	Lower	Upper
97	100		
83	77.5	66.9	100.3
85	56.9	44.5	66.7
99	57.0	49.2	73.8

97 100

83 77.5 66.9 100.3

85 56.9 44.5 66.7

99 57.0 49.2 73.8



Abundance

Ion 96.90 (96.60 to 97.60): VDC

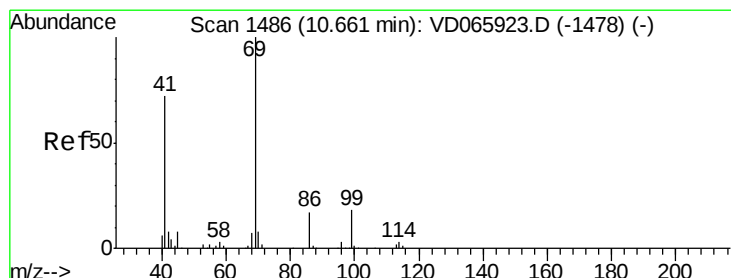
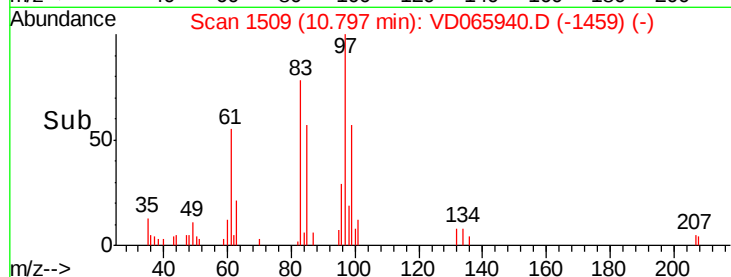
Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC

10.80

Time-->



#56

Ethyl methacrylate

Concen: 3.579 ug/l

RT: 10.66 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

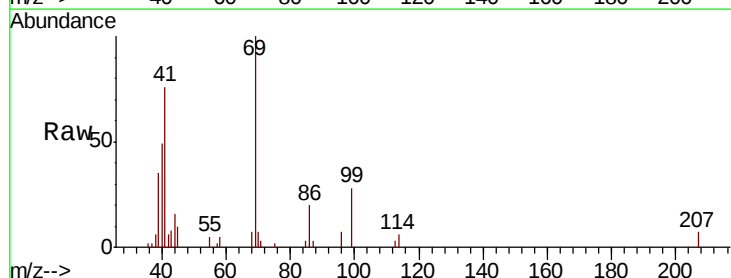
Tgt Ion: 69 Resp: 13161

Ion	Ratio	Lower	Upper
69	100		
41	74.5	56.5	84.7
39	30.2	29.2	43.8

69 100

41 74.5 56.5 84.7

39 30.2 29.2 43.8



Abundance

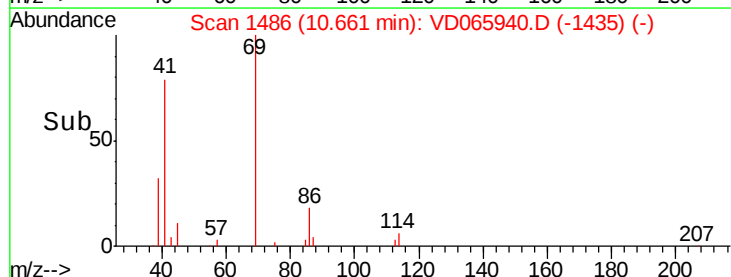
Ion 69.00 (68.70 to 69.70): VDC

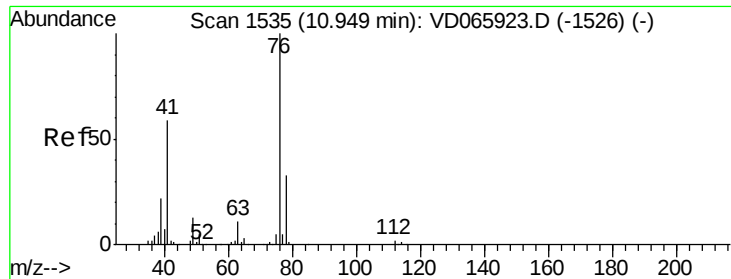
Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

10.66

Time-->





#57

1,3-Dichloropropane

Concen: 3.702 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

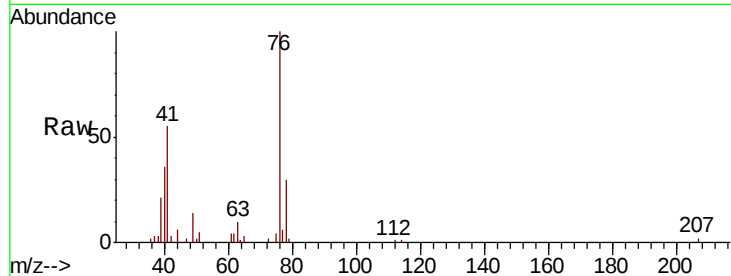
MDL-SOIL-03-QT3-2020DL

Tot Ion: 76 Resp: 19491

Ion Ratio Lower Upper

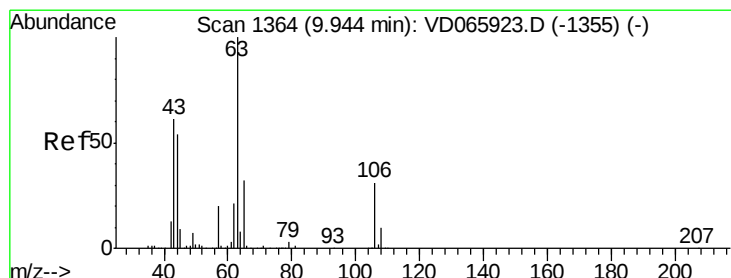
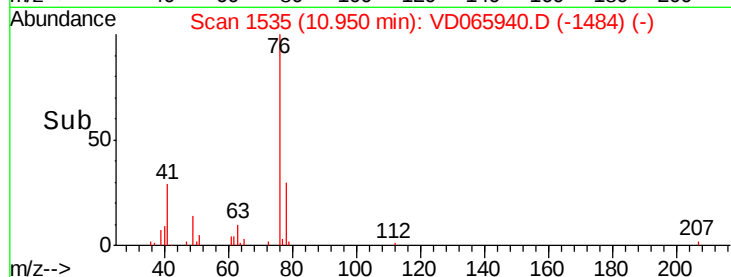
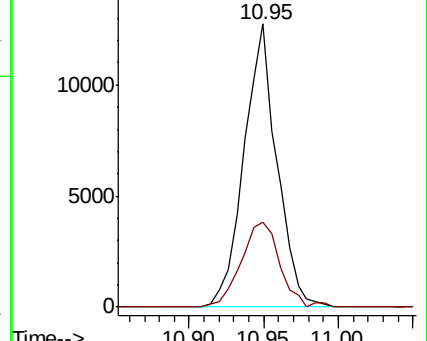
76 100

78 35.3 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: 18.503 ug/l

RT: 9.94 min Scan# 1363

Delta R.T. -0.01 min

Lab File: VD065940.D

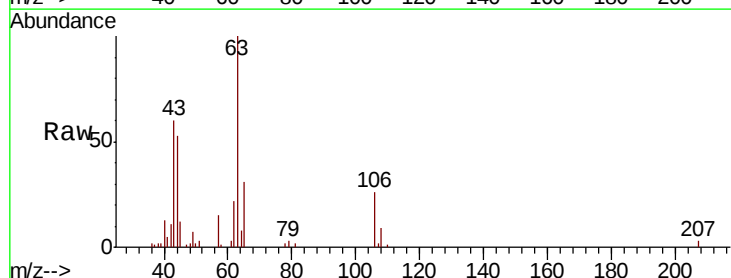
Acq: 08 Jul 2020 15:10

Tgt Ion: 63 Resp: 32951

Ion Ratio Lower Upper

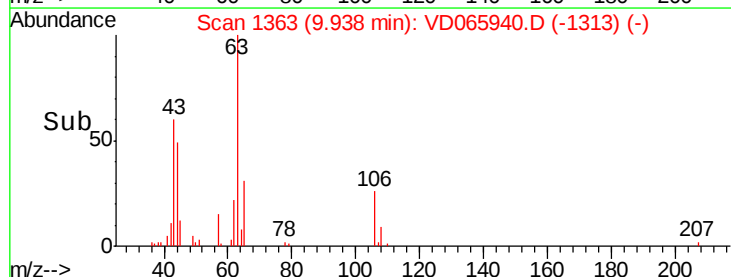
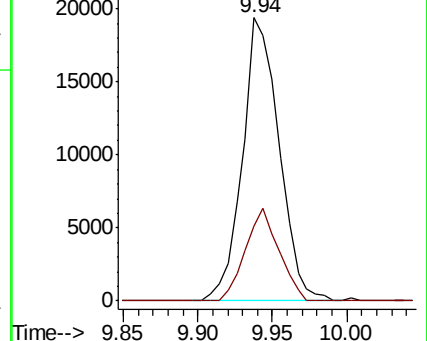
63 100

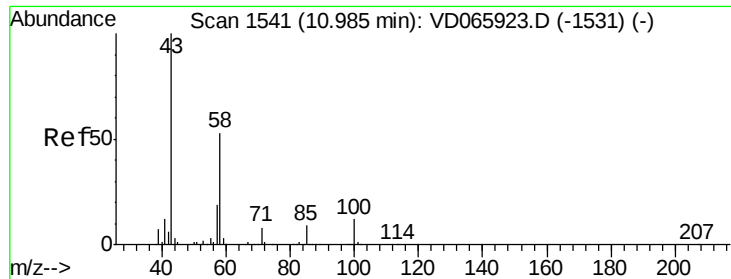
106 29.7 23.8 35.6



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): VDC

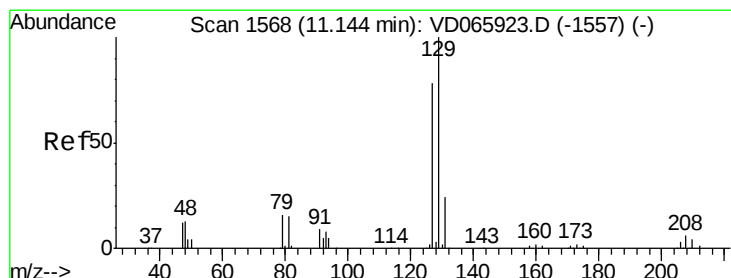
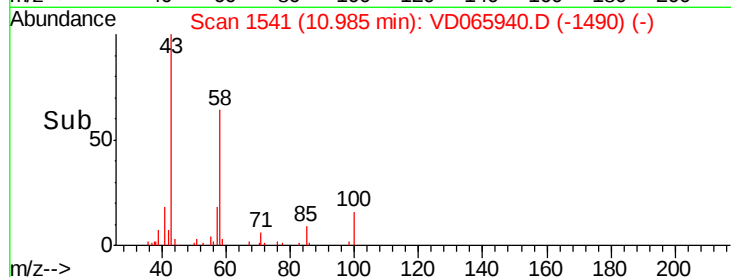
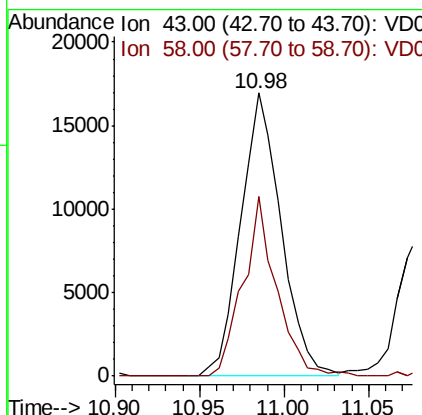
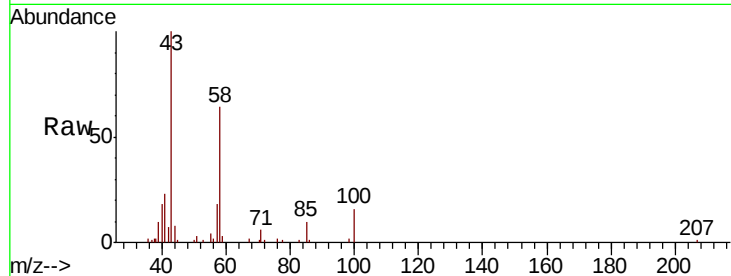




#59
2-Hexanone
Concen: 17.032 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

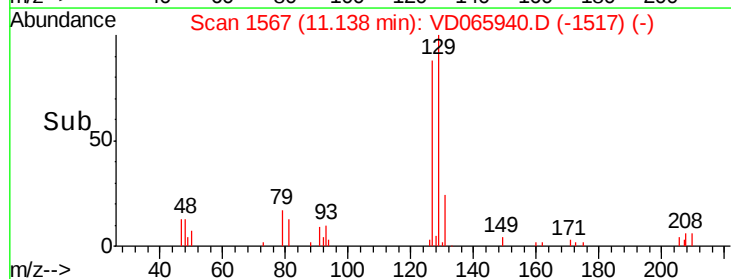
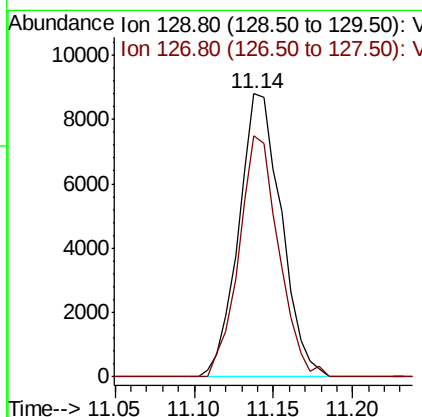
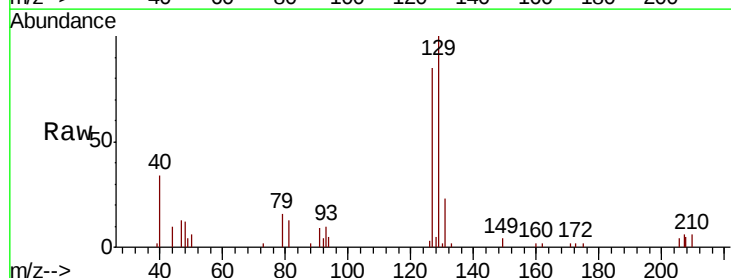
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

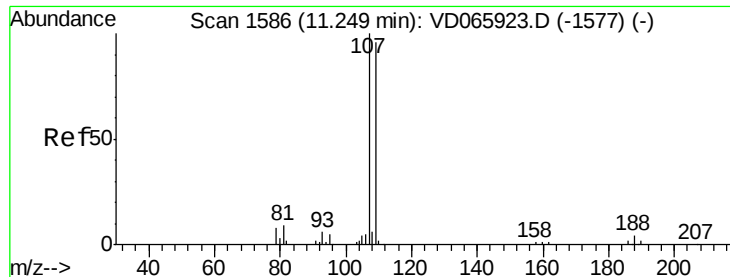
Tot Ion: 43 Resp: 28271
Ion Ratio Lower Upper
43 100
58 53.0 26.6 79.8



#60
Dibromochloromethane
Concen: 3.998 ug/l
RT: 11.14 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion: 129 Resp: 16445
Ion Ratio Lower Upper
129 100
127 79.4 38.8 116.4

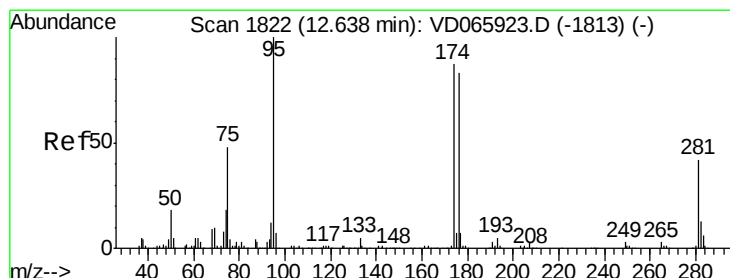
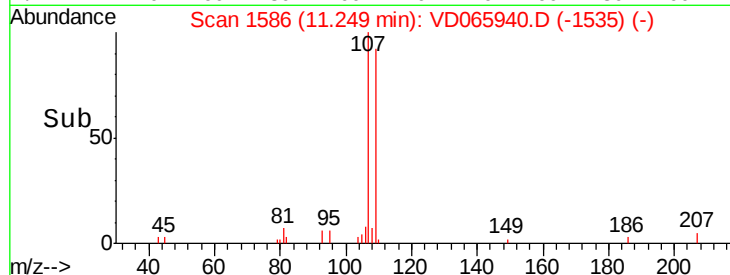
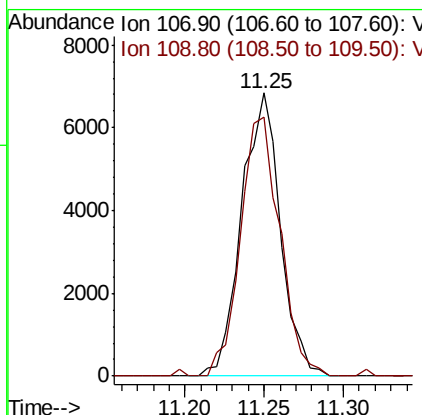
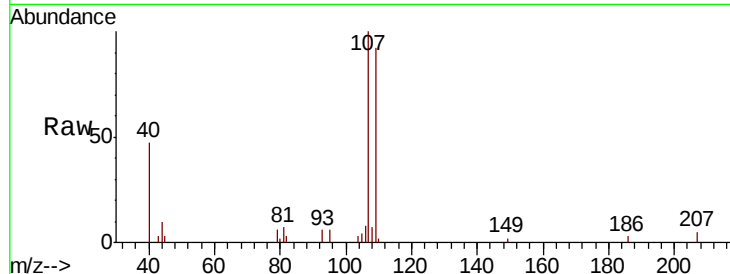




#61
 1,2-Dibromoethane
 Concen: 3.871 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD065940.D
 Acq: 08 Jul 2020 15:10

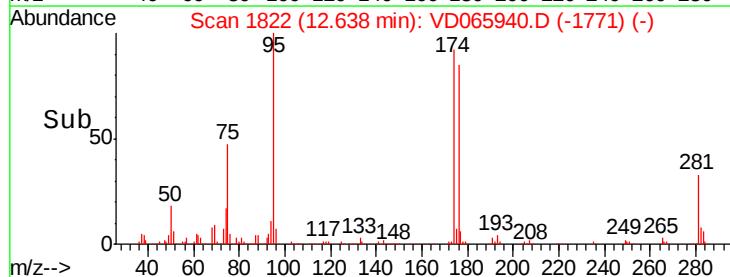
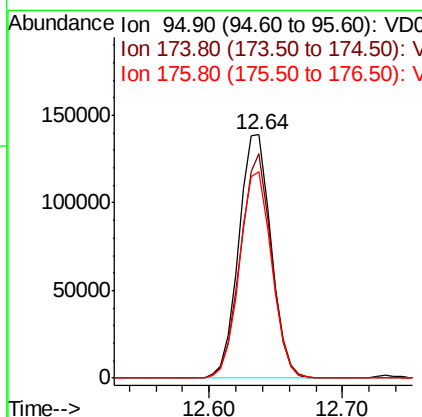
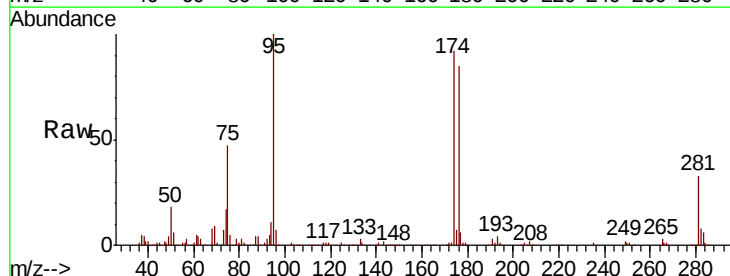
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

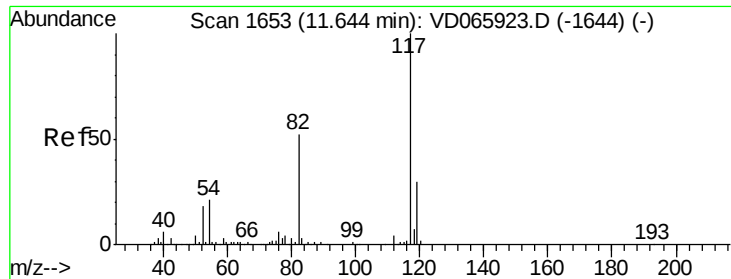
Tot Ion: 107 Resp: 11619
 Ion Ratio Lower Upper
 107 100
 109 93.7 75.4 113.0



#62
 4-Bromofluorobenzene
 Concen: 48.432 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD065940.D
 Acq: 08 Jul 2020 15:10

Tgt Ion: 95 Resp: 232014
 Ion Ratio Lower Upper
 95 100
 174 88.8 0.0 169.4
 176 84.5 0.0 164.0

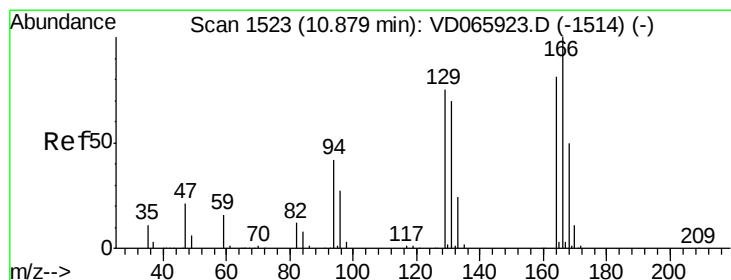
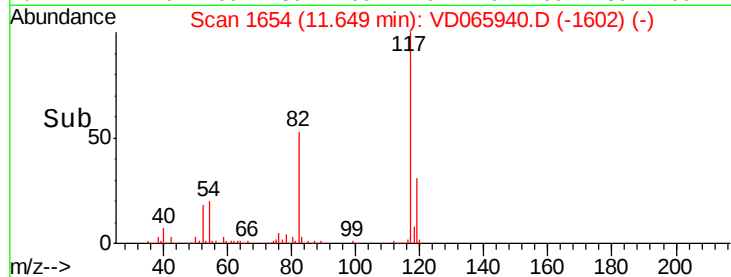
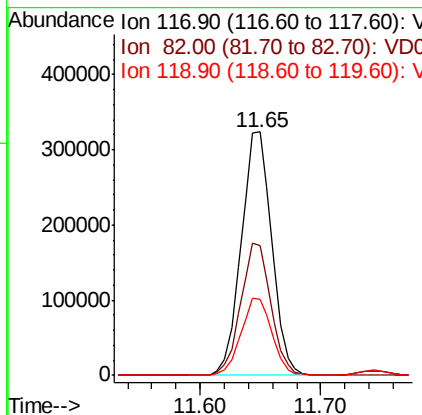
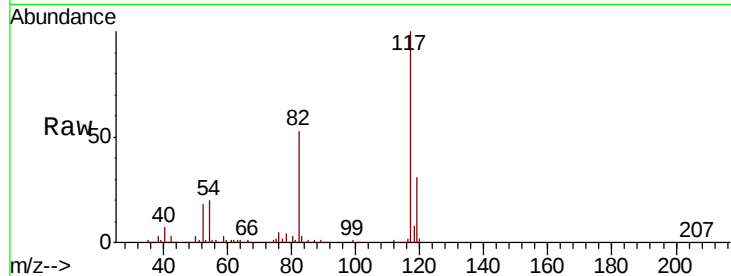




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

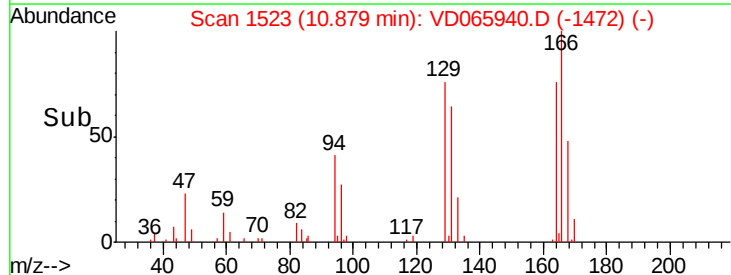
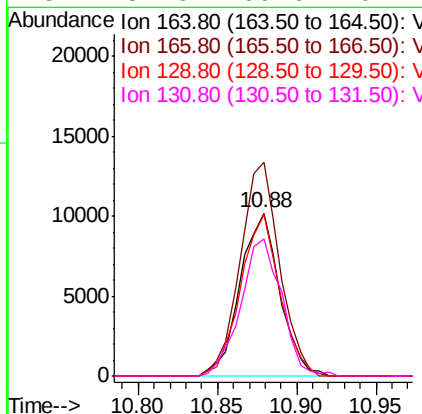
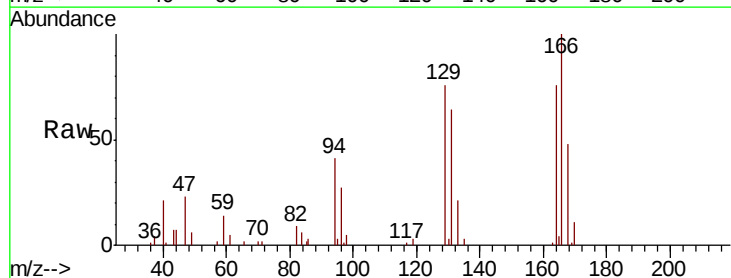
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

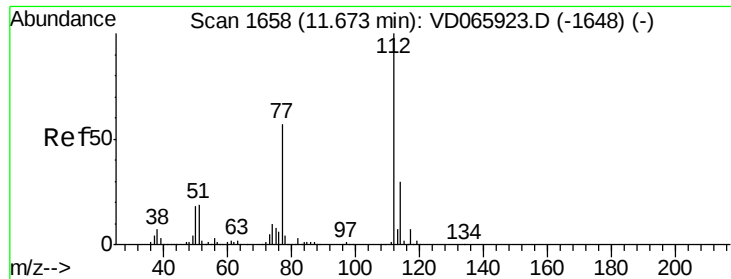
Tot Ion:117 Resp: 572493
Ion Ratio Lower Upper
117 100
82 53.4 41.8 62.8
119 31.1 24.3 36.5



#64
Tetrachloroethene
Concen: 4.264 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion:164 Resp: 17752
Ion Ratio Lower Upper
164 100
166 131.3 99.0 148.4
129 99.4 73.9 110.9
131 84.6 69.6 104.4

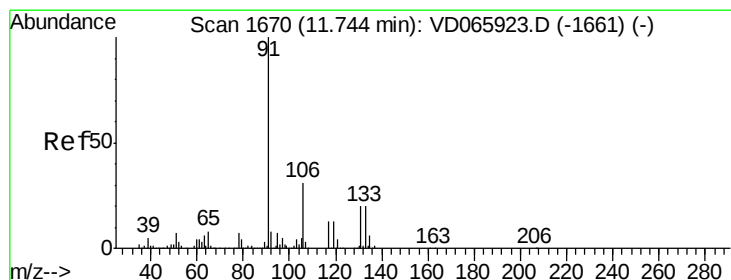
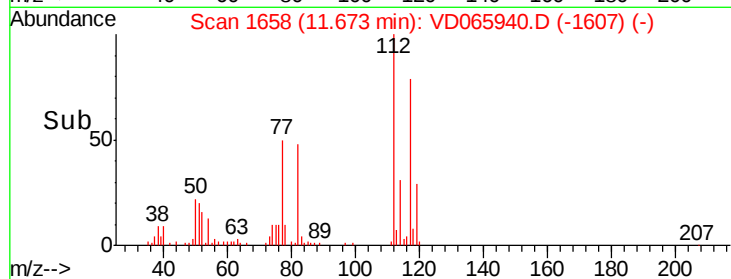
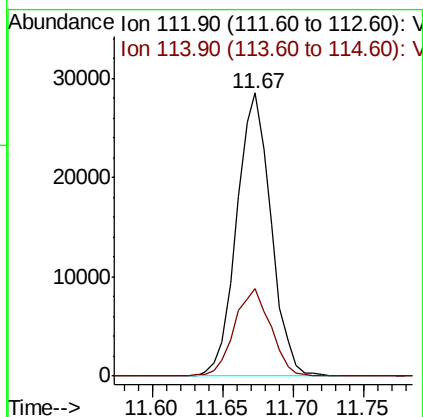
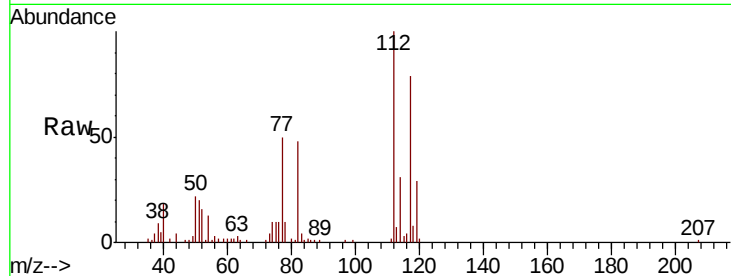




#65
Chlorobenzene
Concen: 4.198 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

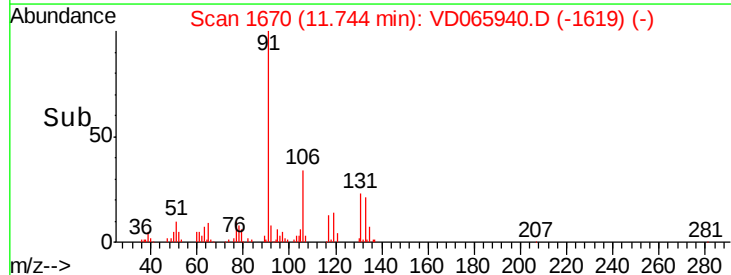
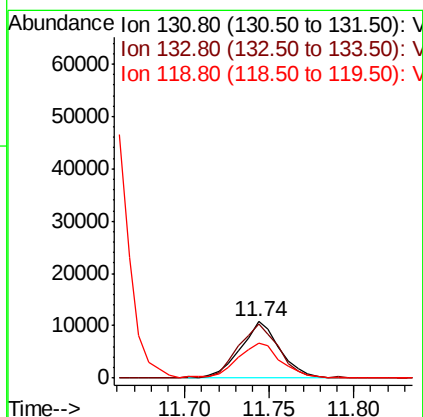
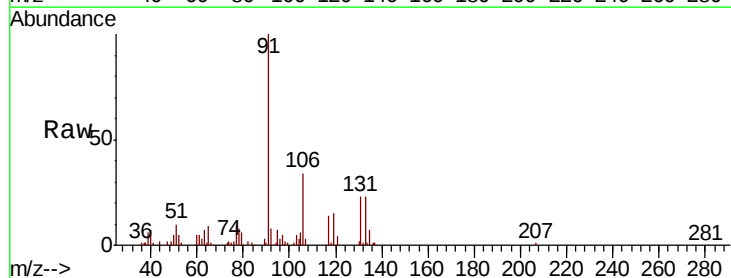
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

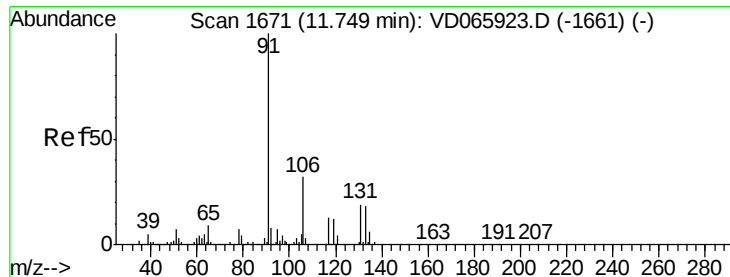
Tot Ion:112 Resp: 48434
Ion Ratio Lower Upper
112 100
114 30.8 24.2 36.4



#66
1,1,1,2-Tetrachloroethane
Concen: 4.048 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion:131 Resp: 17468
Ion Ratio Lower Upper
131 100
133 100.4 47.9 143.6
119 68.8 31.9 95.9





#67

Ethyl Benzene

Concen: 3.871 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.01 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

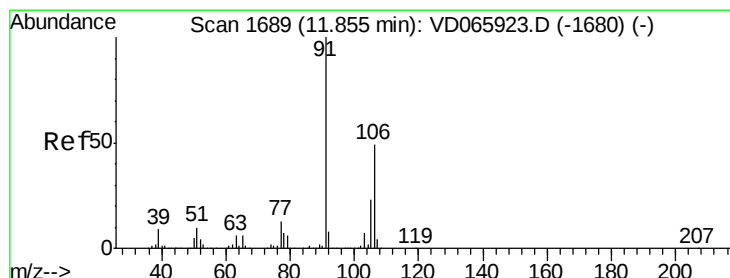
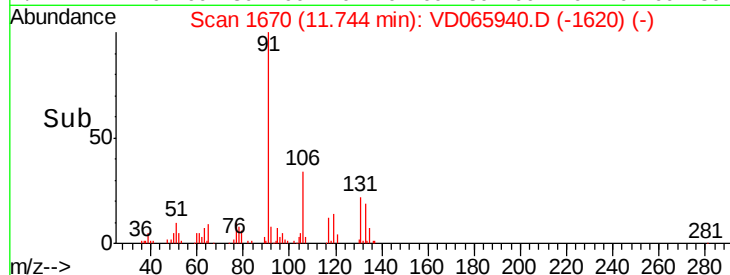
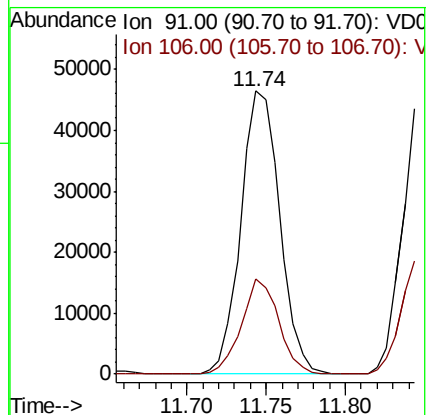
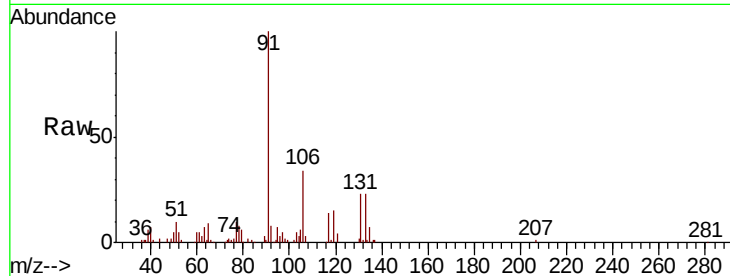
MDL-SOIL-03-QT3-2020DL

Tot Ion: 91 Resp: 79340

Ion Ratio Lower Upper

91 100

106 33.6 25.2 37.8



#68

m/p-Xylenes

Concen: 7.924 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD065940.D

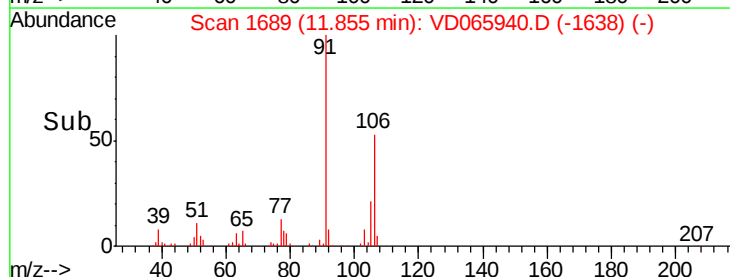
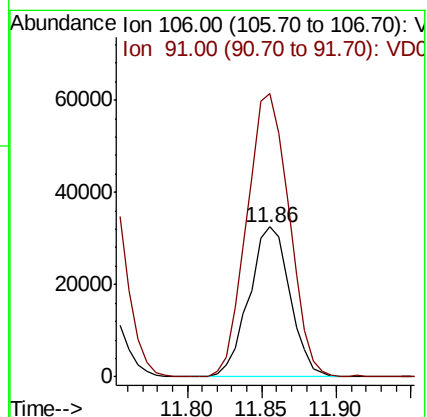
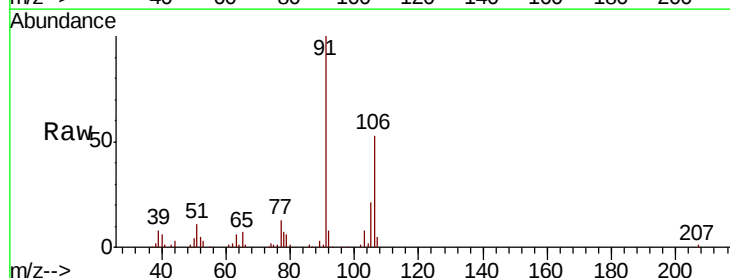
Acq: 08 Jul 2020 15:10

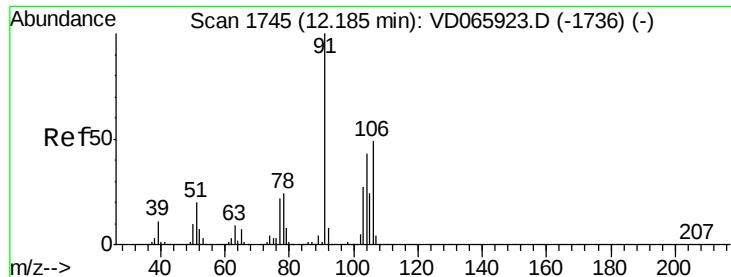
Tgt Ion: 106 Resp: 61704

Ion Ratio Lower Upper

106 100

91 195.7 158.2 237.2

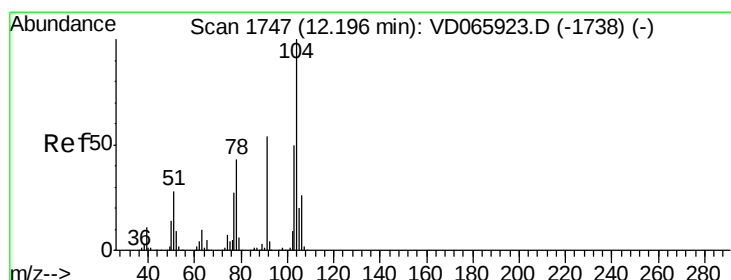
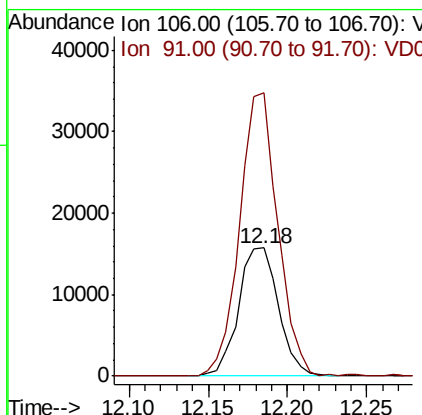
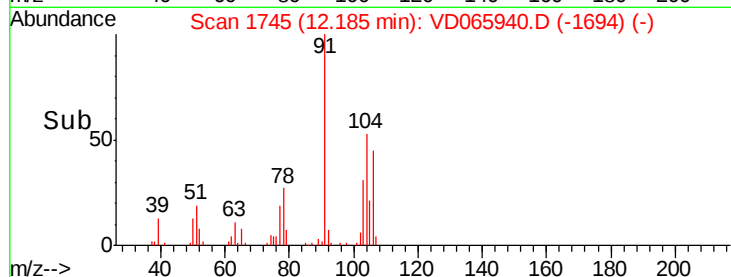
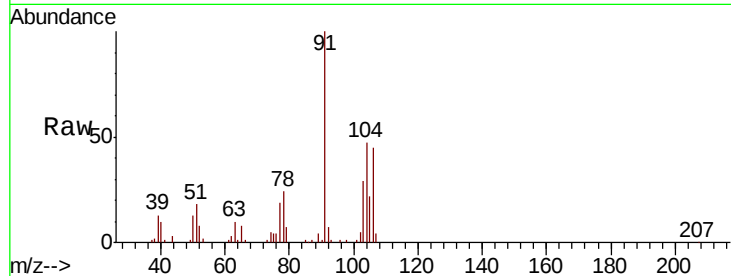




#69
o-Xylene
Concen: 3.880 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

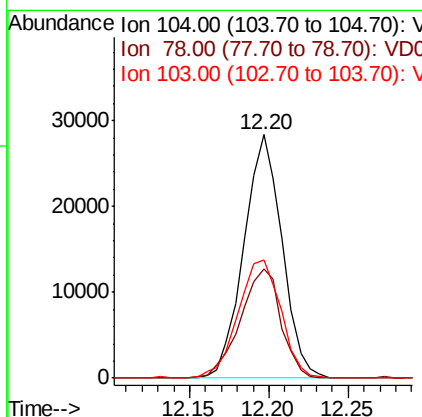
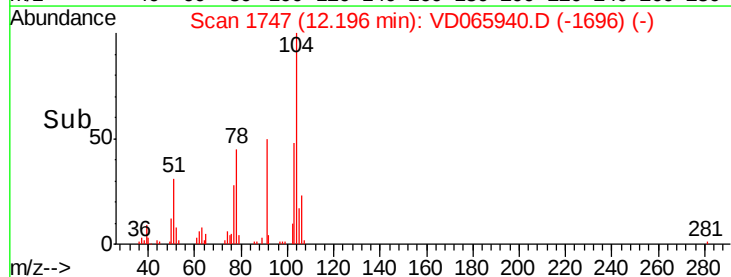
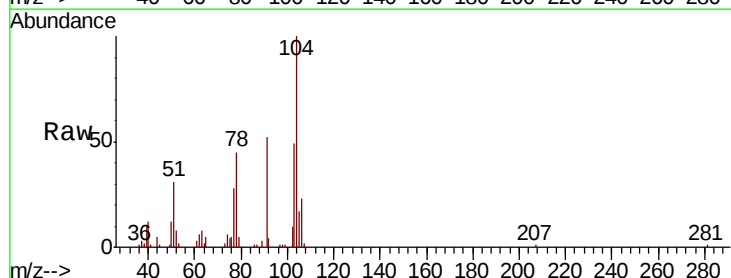
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

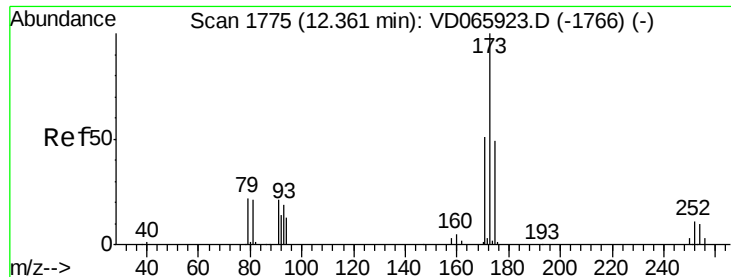
Tot Ion:106 Resp: 27523
Ion Ratio Lower Upper
106 100
91 210.8 104.1 312.2



#70
Styrene
Concen: 3.877 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion:104 Resp: 47477
Ion Ratio Lower Upper
104 100
78 47.7 38.8 58.2
103 54.3 43.6 65.4

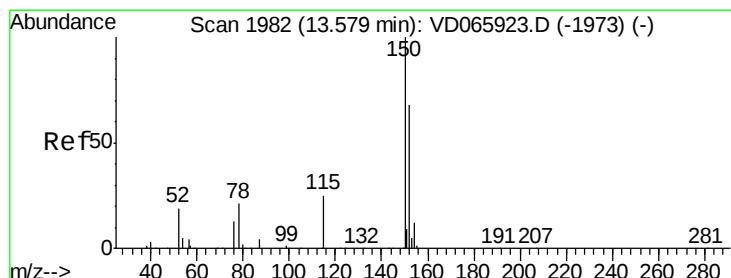
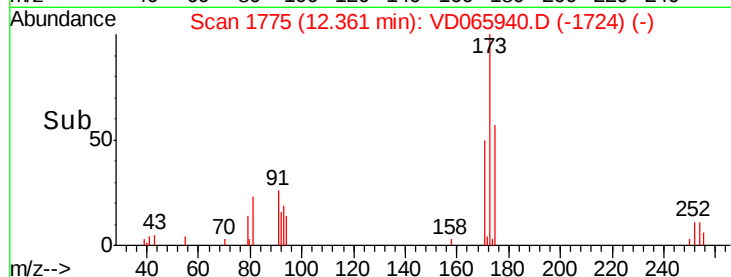
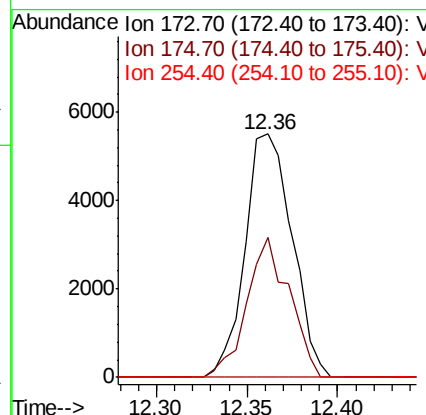
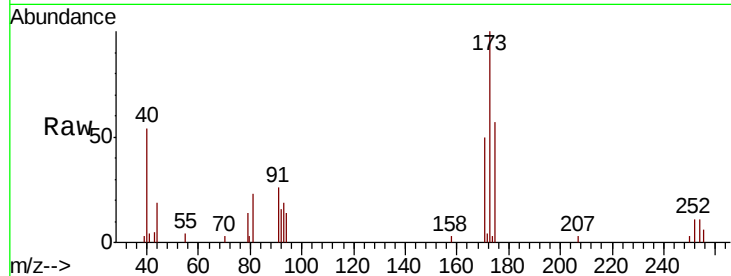




#71
Bromoform
Concen: 4.074 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

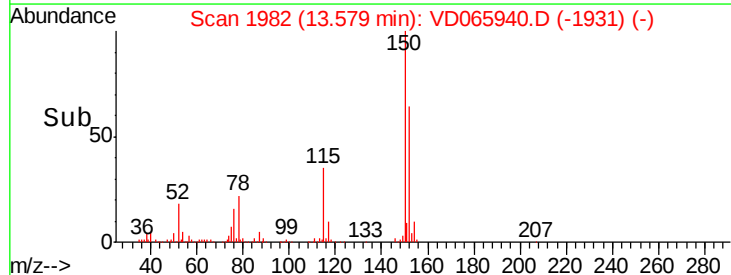
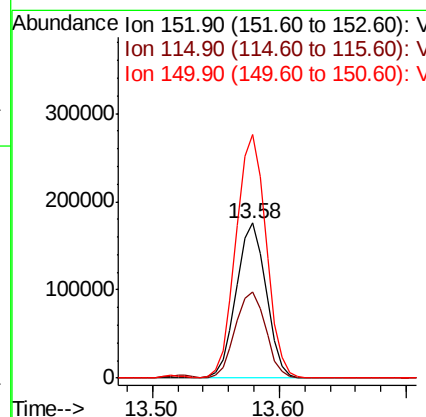
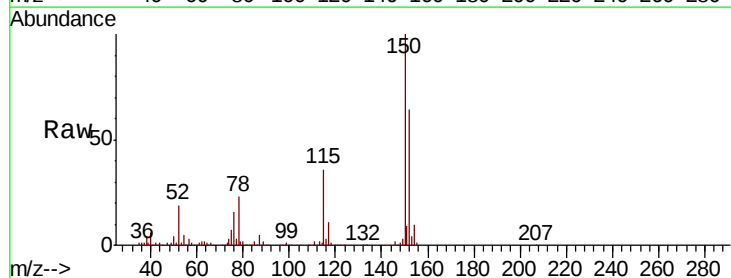
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

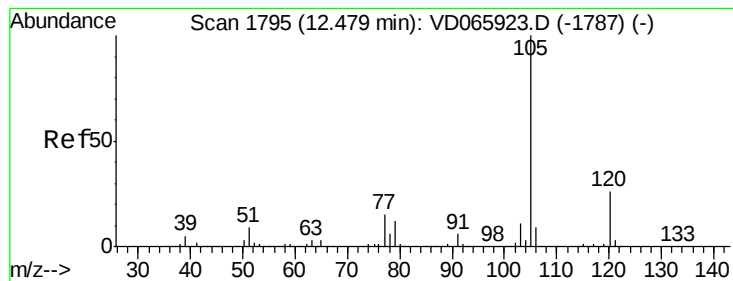
Tot Ion:173 Resp: 9947
Ion Ratio Lower Upper
173 100
175 51.7 24.2 72.6
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion:152 Resp: 287594
Ion Ratio Lower Upper
152 100
115 56.4 27.8 83.3
150 158.4 0.0 347.2





#73

Isopropylbenzene

Concen: 3.685 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

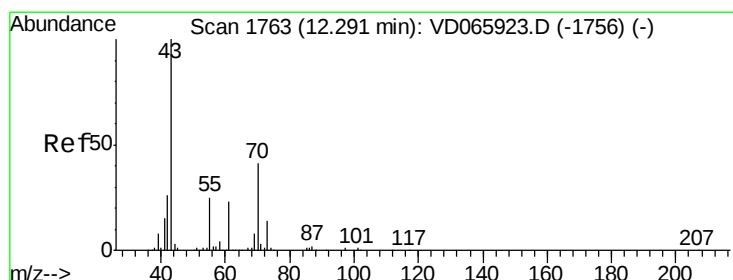
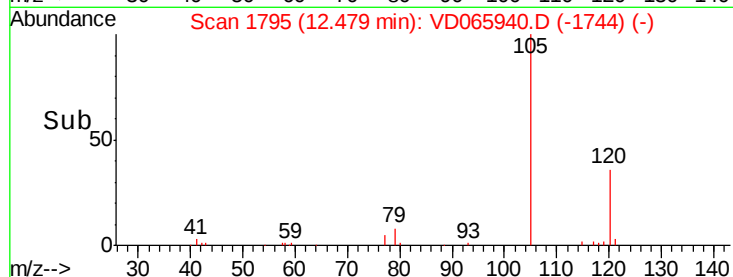
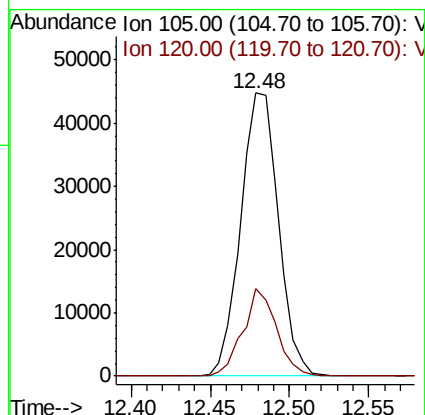
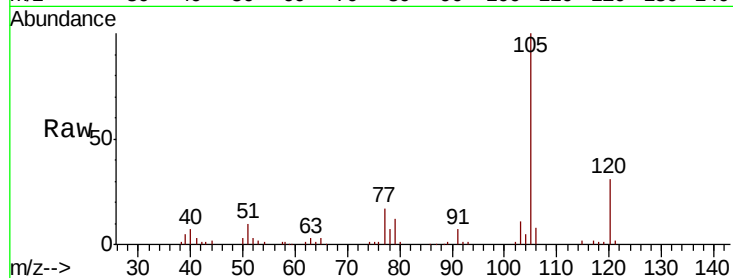
MDL-SOIL-03-QT3-2020DL

Tot Ion:105 Resp: 73968

Ion Ratio Lower Upper

105 100

120 27.5 13.3 39.8



#74

N-ethyl acetate

Concen: 3.482 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Tgt Ion: 43 Resp: 15684

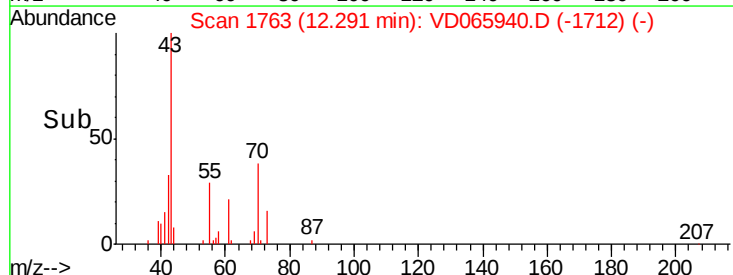
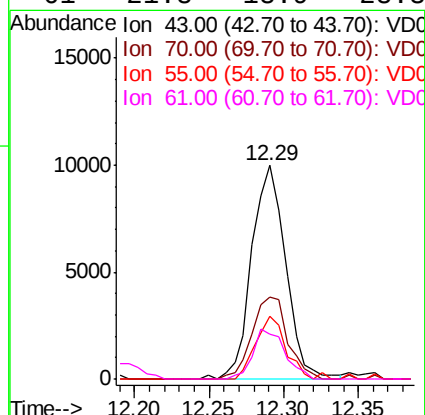
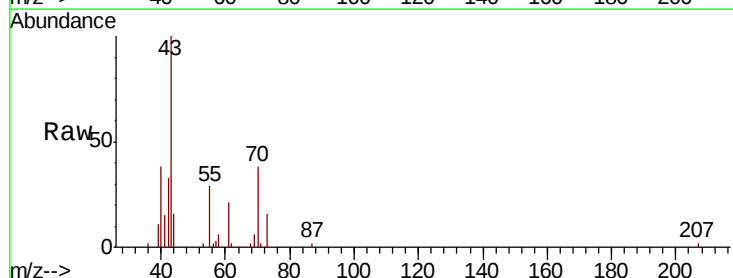
Ion Ratio Lower Upper

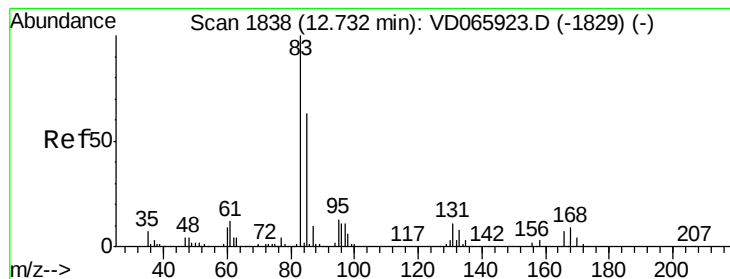
43 100

70 40.6 33.6 50.4

55 25.7 20.1 30.1

61 21.8 18.9 28.3





#75

1,1,2,2-Tetrachloroethane

Concen: 3.672 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

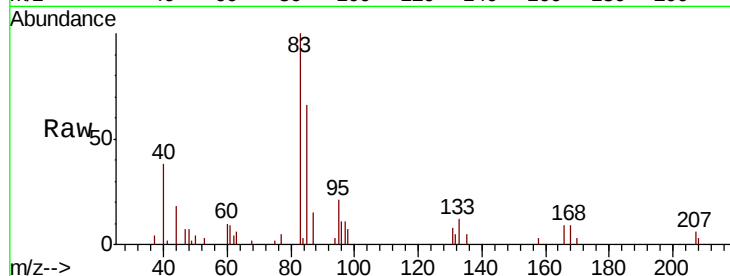
Tot Ion: 83 Resp: 12237

Ion Ratio Lower Upper

83 100

131 11.6 5.6 16.8

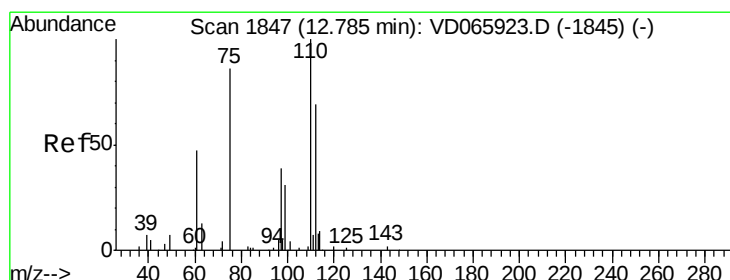
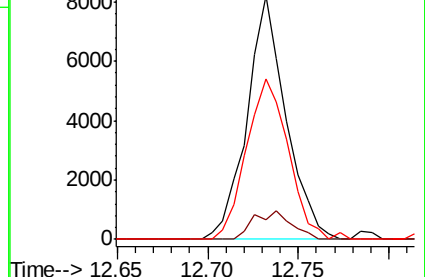
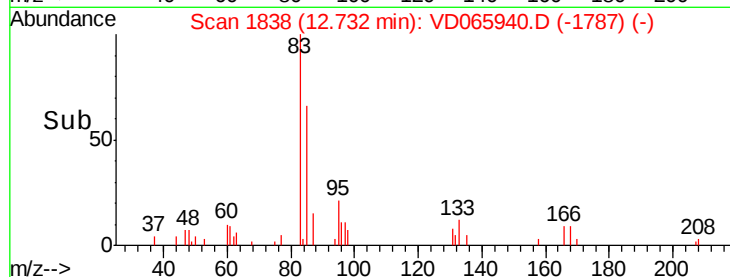
85 71.1 32.6 98.0



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 7.092 ug/l

RT: 12.78 min Scan# 1847

Delta R.T. 0.00 min

Lab File: VD065940.D

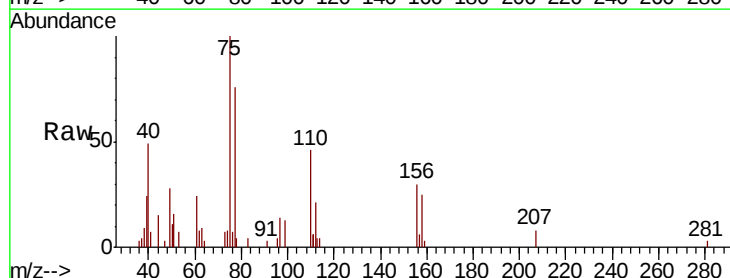
Acq: 08 Jul 2020 15:10

Tgt Ion: 75 Resp: 17109

Ion Ratio Lower Upper

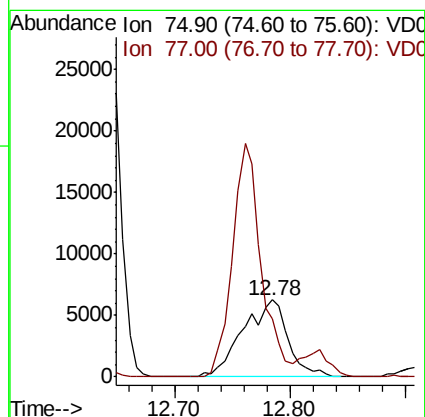
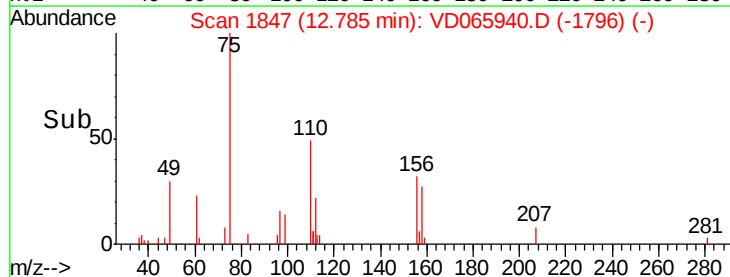
75 100

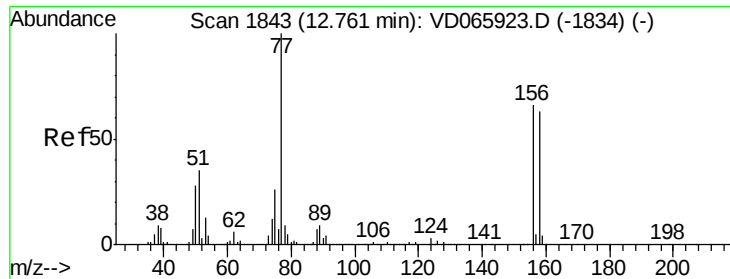
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 4.180 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

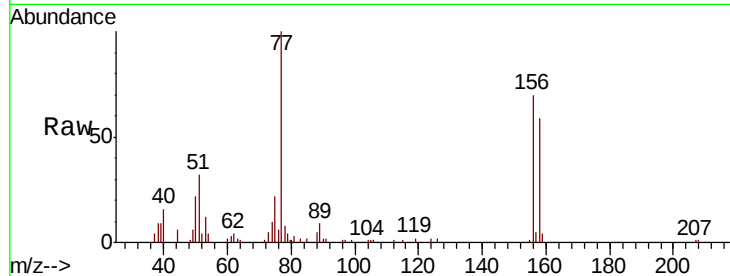
Tot Ion:156 Resp: 20347

Ion Ratio Lower Upper

156 100

77 162.2 85.0 255.0

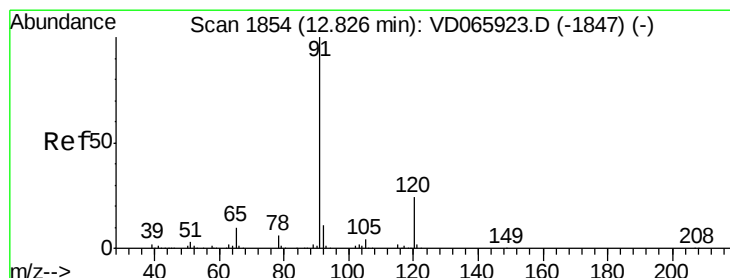
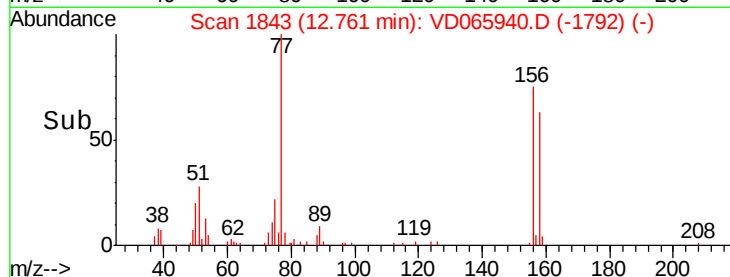
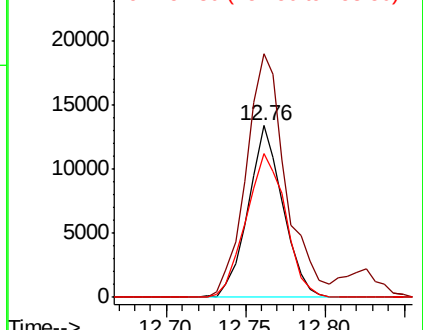
158 94.7 49.0 147.0



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 3.971 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. -0.01 min

Lab File: VD065940.D

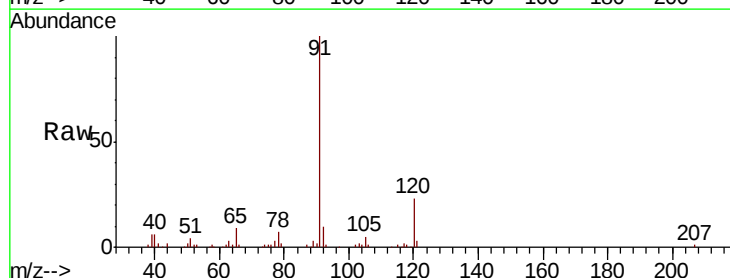
Acq: 08 Jul 2020 15:10

Tgt Ion: 91 Resp: 93450

Ion Ratio Lower Upper

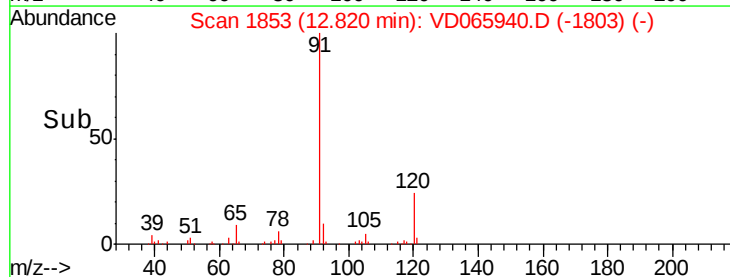
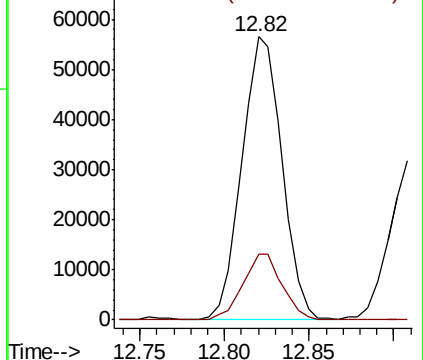
91 100

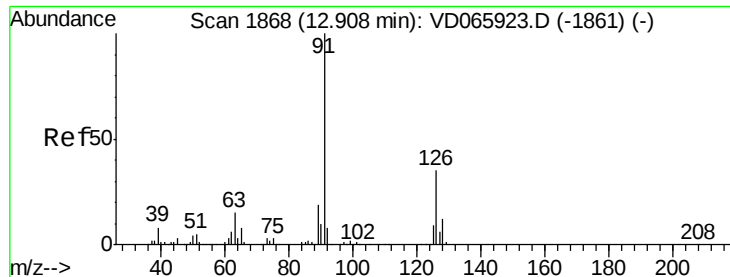
120 22.7 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 3.891 ug/l

RT: 12.91 min Scan# 1868

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

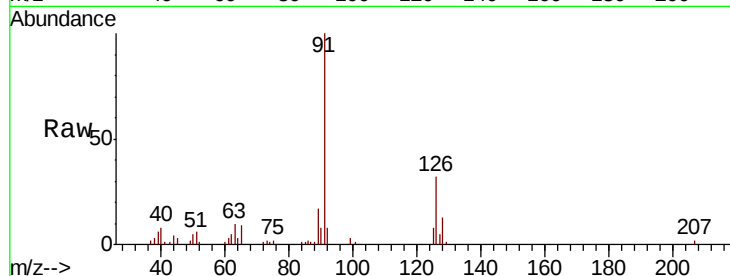
MDL-SOIL-03-QT3-2020DL

Tot Ion: 91 Resp: 51946

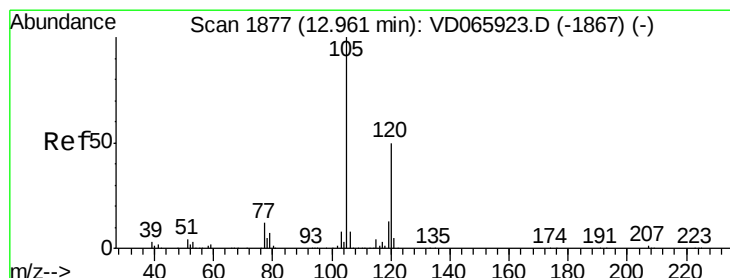
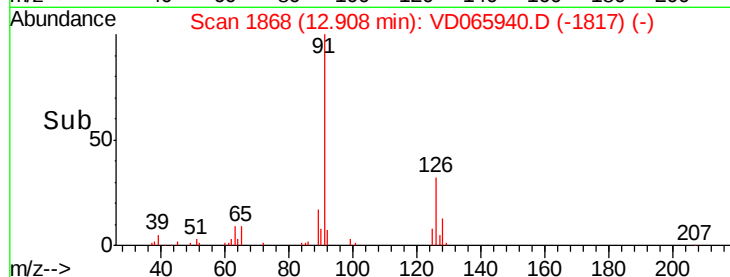
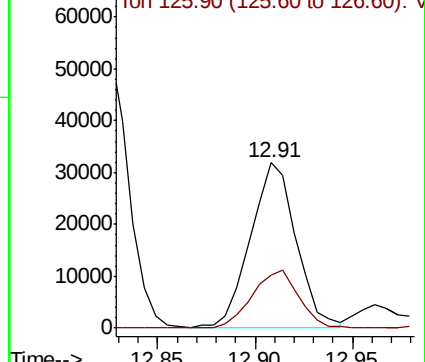
Ion Ratio Lower Upper

91 100

126 35.6 17.6 52.8



Abundance Ion 91.00 (90.70 to 91.70): VD065923.D (-1861) (-)



#80

1,3,5-Trimethylbenzene

Concen: 3.734 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VD065940.D

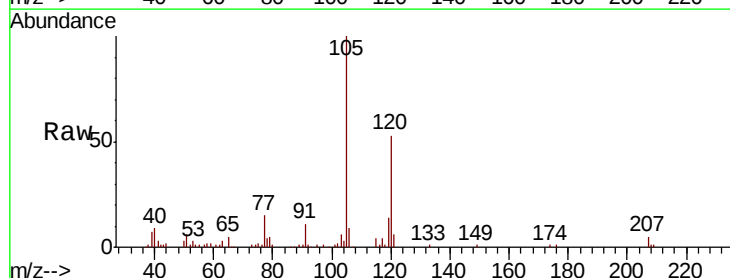
Acq: 08 Jul 2020 15:10

Tgt Ion:105 Resp: 61305

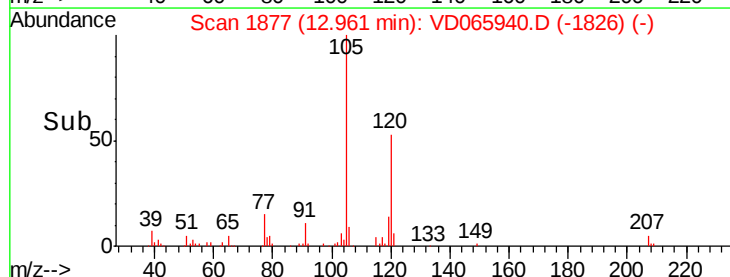
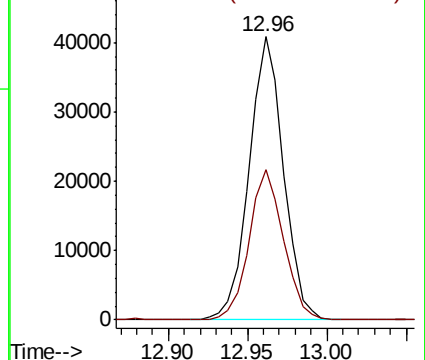
Ion Ratio Lower Upper

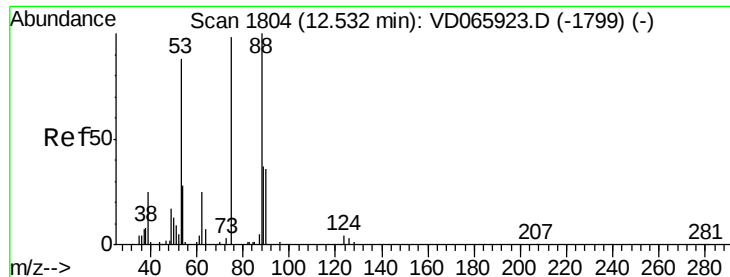
105 100

120 52.9 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): VD065923.D (-1867) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 3.768 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

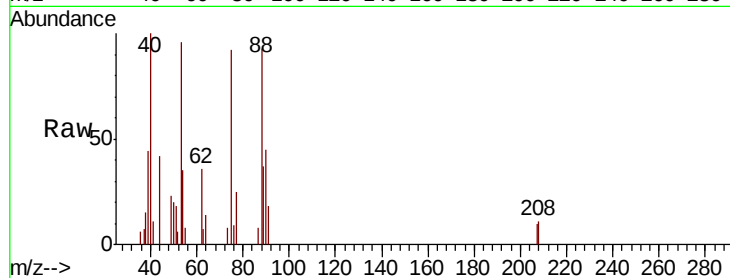
Tot Ion: 75 Resp: 4231

Ion Ratio Lower Upper

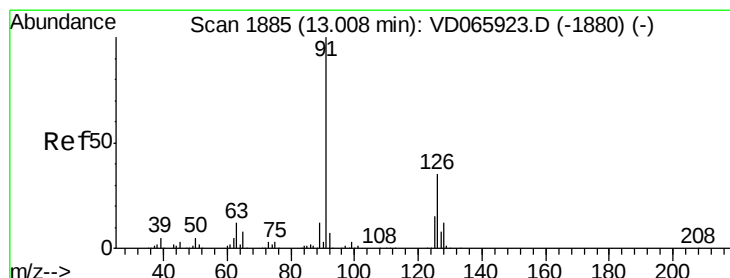
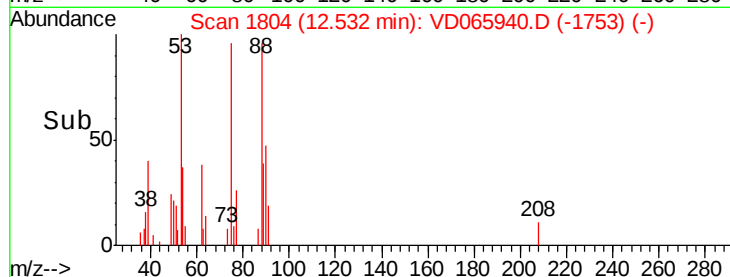
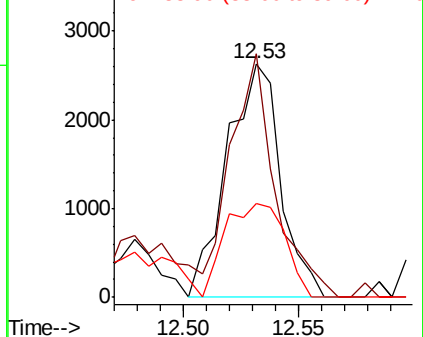
75 100

53 86.6 75.8 113.8

89 44.9 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: 3.915 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VD065940.D

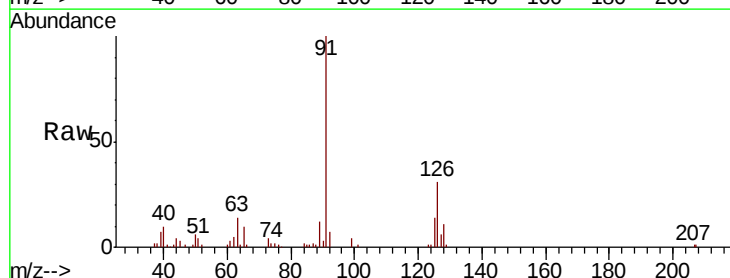
Acq: 08 Jul 2020 15:10

Tgt Ion: 91 Resp: 54831

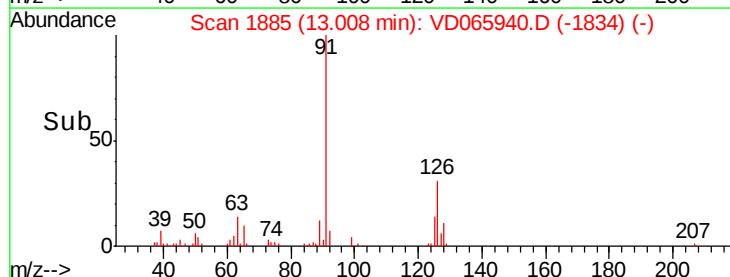
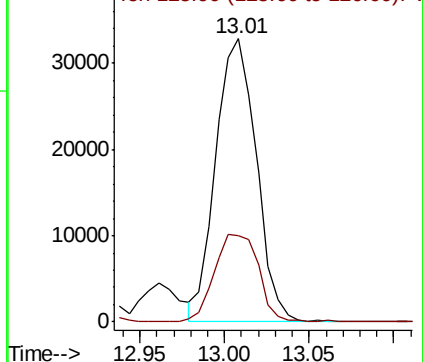
Ion Ratio Lower Upper

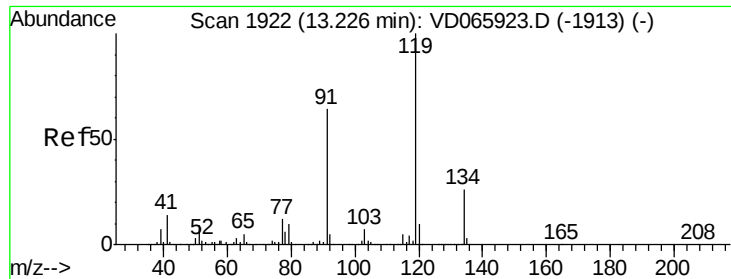
91 100

126 33.6 17.3 51.7



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.90 (125.60 to 126.60): V

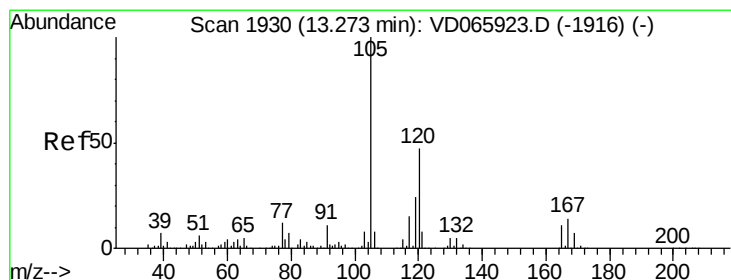
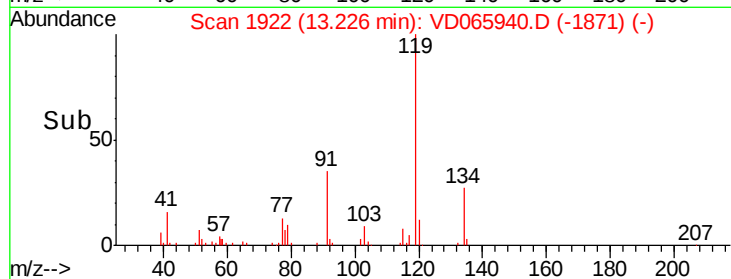
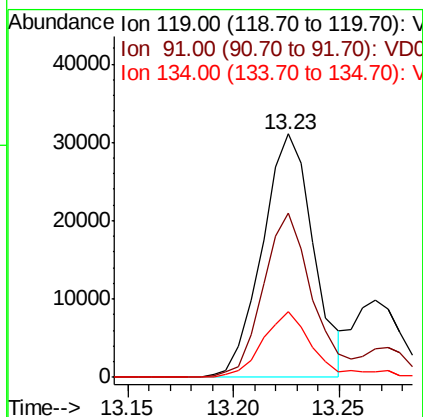
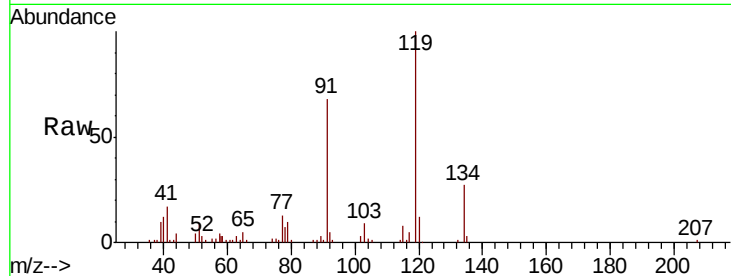




#83
tert-Butylbenzene
Concen: 3.746 ug/l
RT: 13.23 min Scan# 1922
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

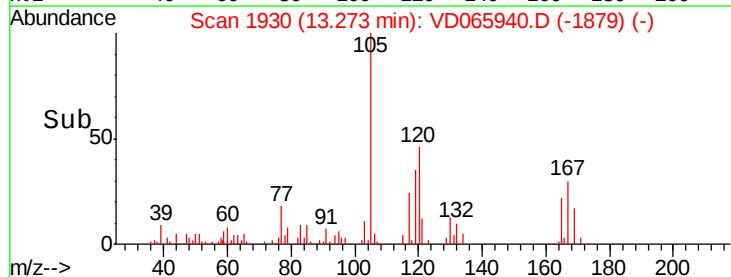
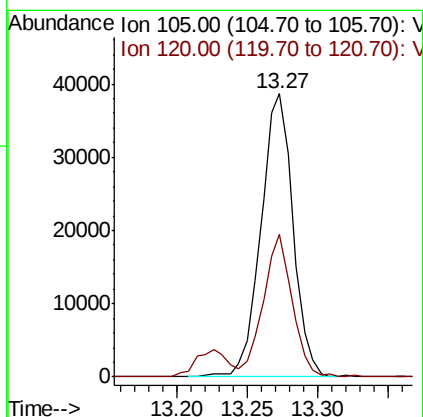
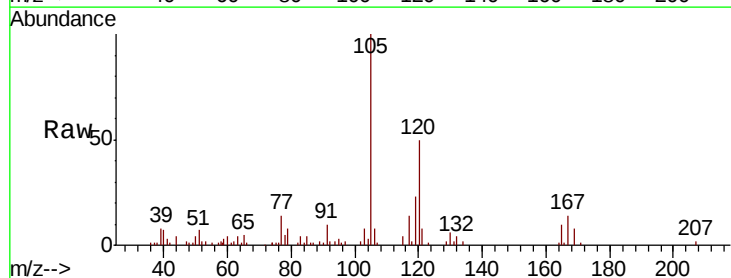
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

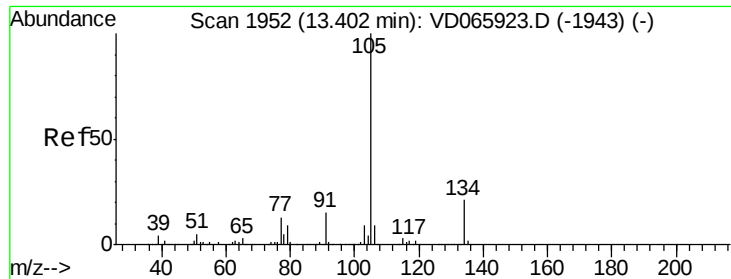
Tot Ion:119 Resp: 52394
Ion Ratio Lower Upper
119 100
91 64.9 32.4 97.2
134 27.3 14.1 42.4



#84
1,2,4-Trimethylbenzene
Concen: 3.776 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion:105 Resp: 61700
Ion Ratio Lower Upper
105 100
120 45.5 23.2 69.5





#85

sec-Butylbenzene

Concen: 3.745 ug/l

RT: 13.40 min Scan# 1952

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

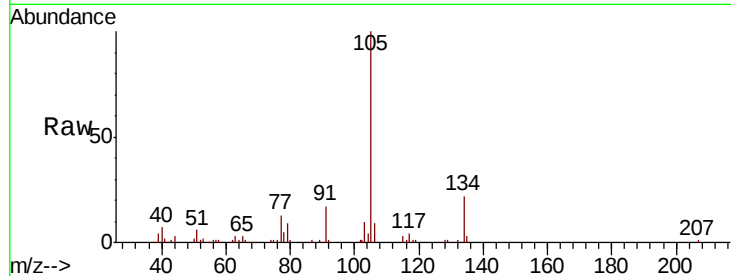
MDL-SOIL-03-QT3-2020DL

Tot Ion:105 Resp: 74232

Ion Ratio Lower Upper

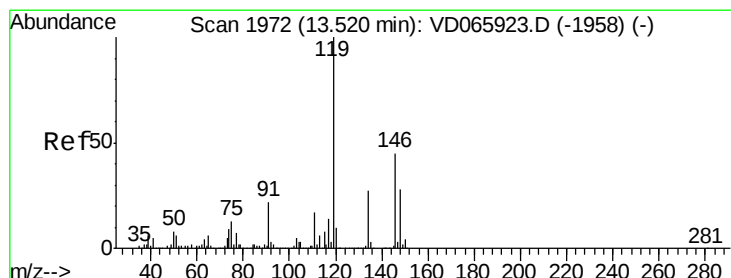
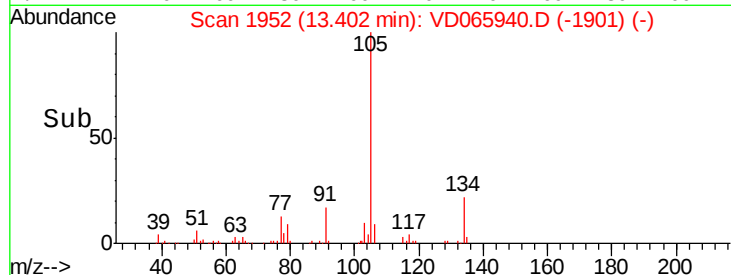
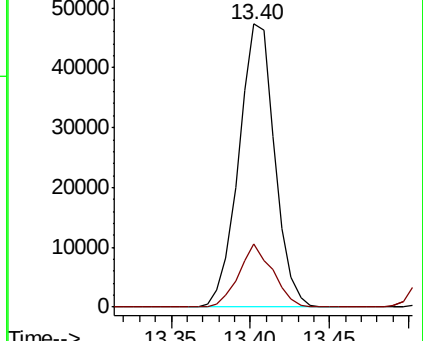
105 100

134 21.0 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: 3.686 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

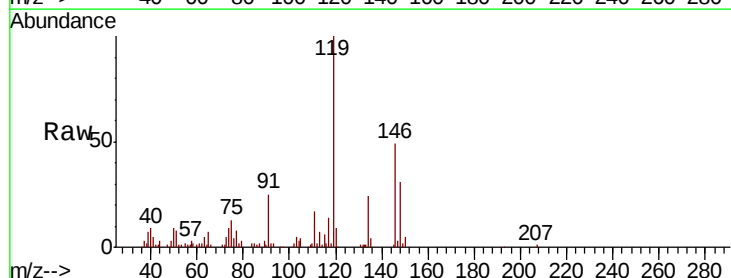
Tgt Ion:119 Resp: 66828

Ion Ratio Lower Upper

119 100

134 25.2 13.4 40.1

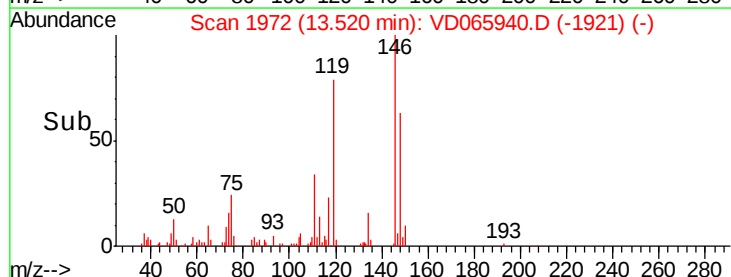
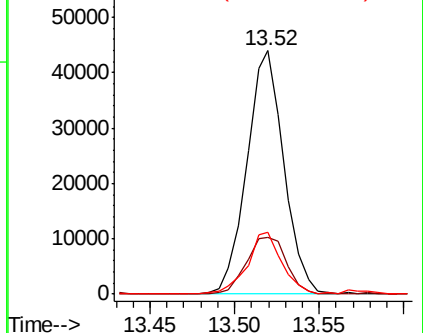
91 23.8 11.3 33.8

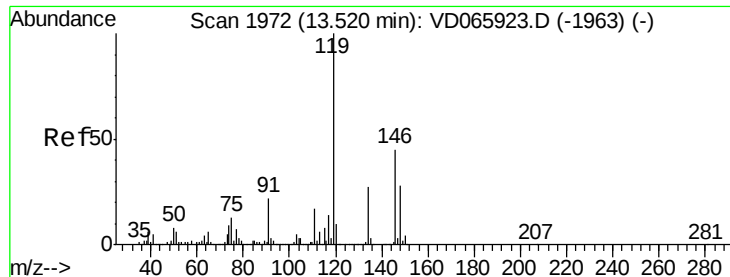


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

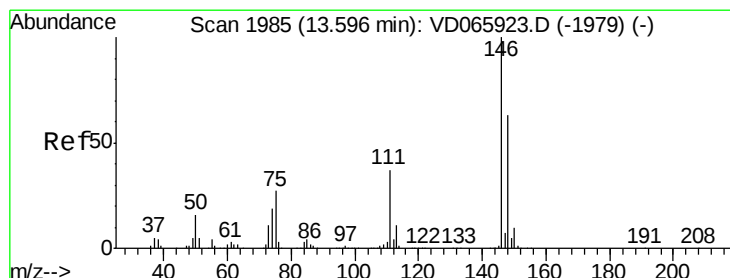
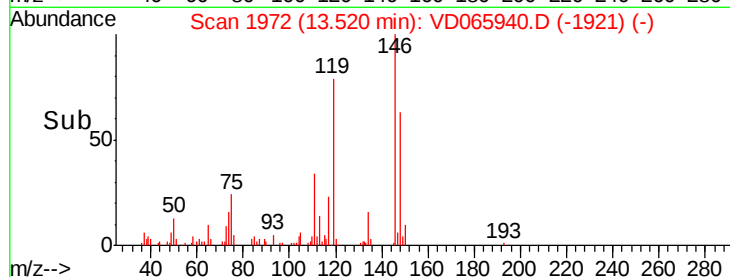
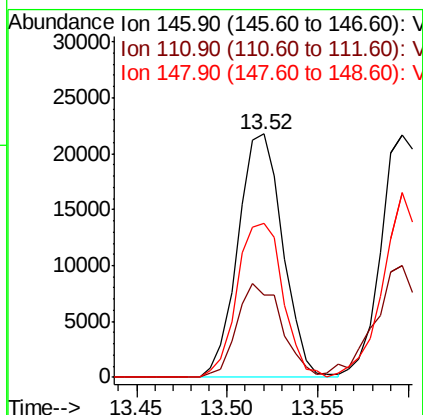
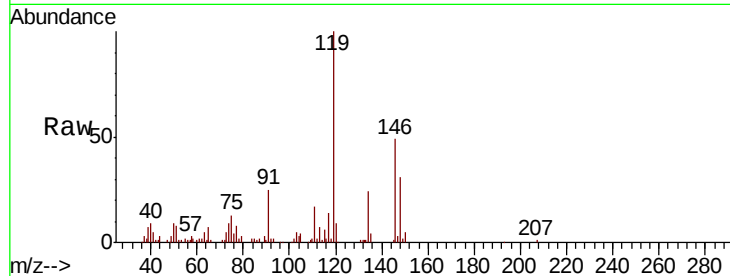




#87
 1,3-Dichlorobenzene
 Concen: 4.098 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD065940.D
 Acq: 08 Jul 2020 15:10

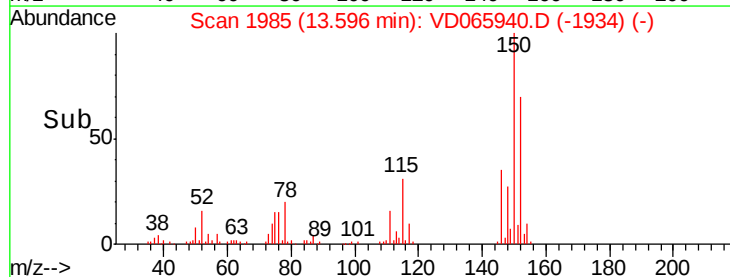
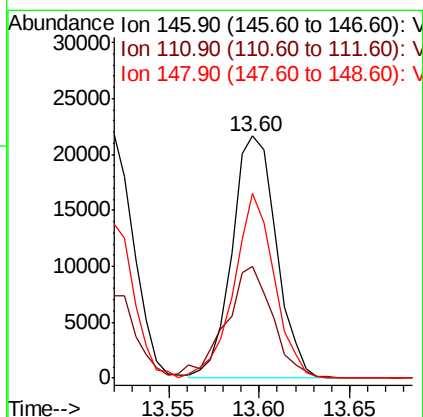
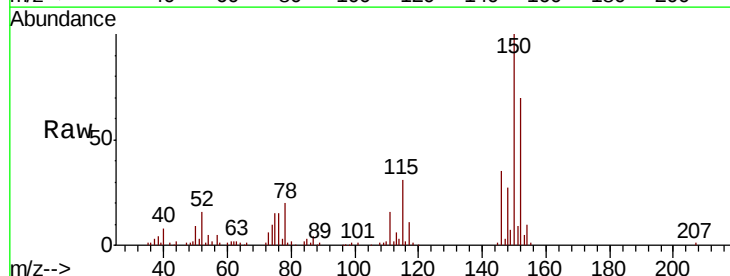
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2020DL

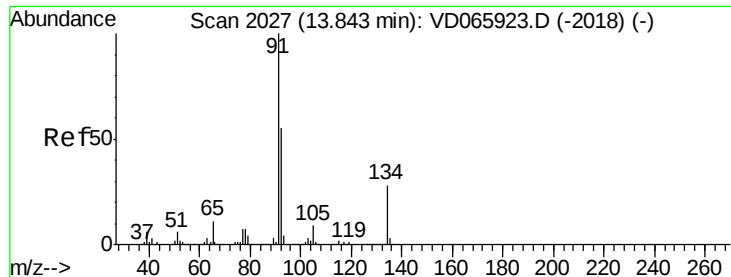
Tot Ion:146 Resp: 37328
 Ion Ratio Lower Upper
 146 100
 111 38.8 19.3 57.8
 148 64.8 32.0 96.0



#88
 1,4-Dichlorobenzene
 Concen: 4.054 ug/l
 RT: 13.60 min Scan# 1985
 Delta R.T. 0.00 min
 Lab File: VD065940.D
 Acq: 08 Jul 2020 15:10

Tgt Ion:146 Resp: 36840
 Ion Ratio Lower Upper
 146 100
 111 49.1 18.9 56.7
 148 69.7 32.1 96.3

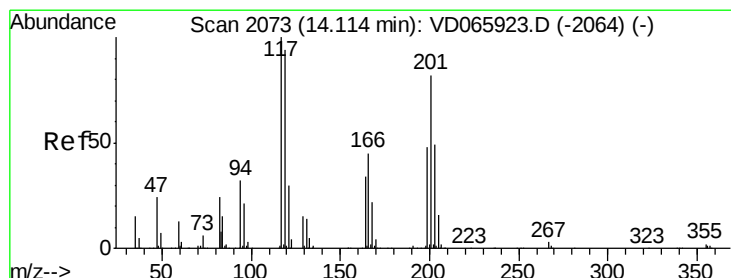
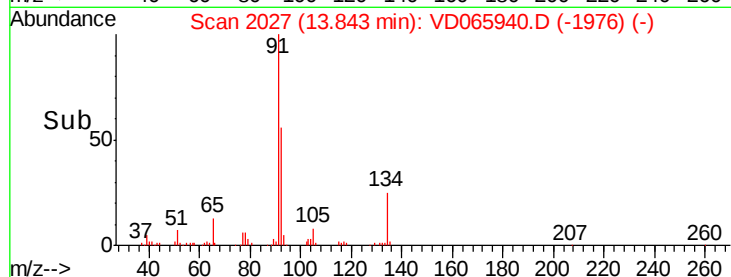
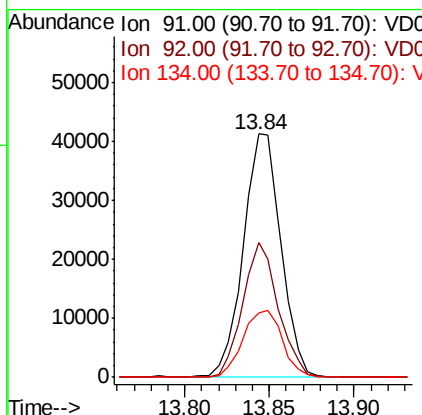
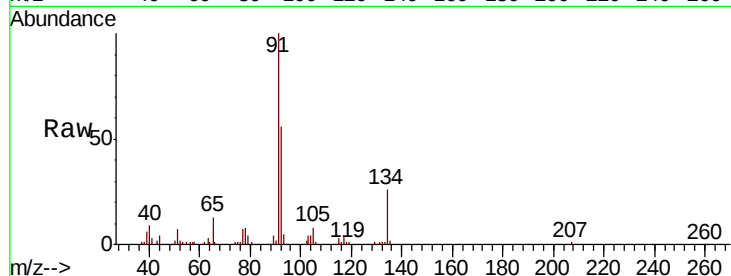




#89
n-Butylbenzene
Concen: 3.761 ug/l
RT: 13.84 min Scan# 2027
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

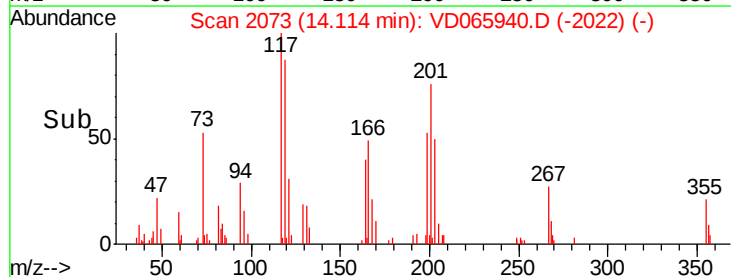
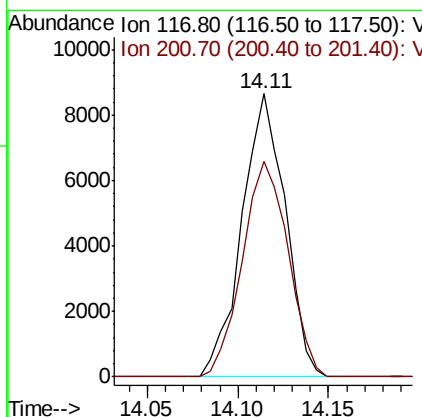
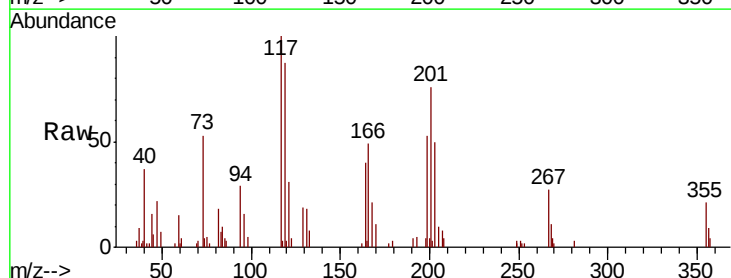
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2020DL

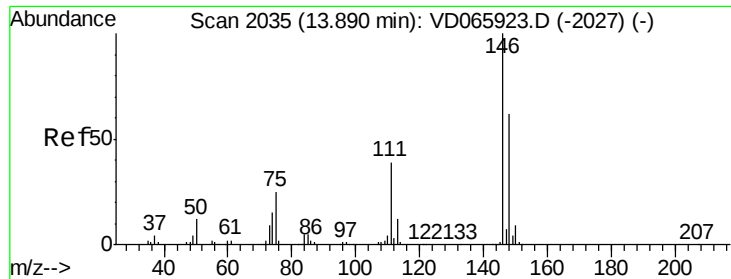
Tot Ion: 91 Resp: 64037
Ion Ratio Lower Upper
91 100
92 52.5 27.2 81.6
134 28.6 13.8 41.3



#90
Hexachloroethane
Concen: 3.941 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. 0.00 min
Lab File: VD065940.D
Acq: 08 Jul 2020 15:10

Tgt Ion: 117 Resp: 14409
Ion Ratio Lower Upper
117 100
201 80.1 40.0 120.0





#91

1,2-Dichlorobenzene

Concen: 3.877 ug/l

RT: 13.89 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

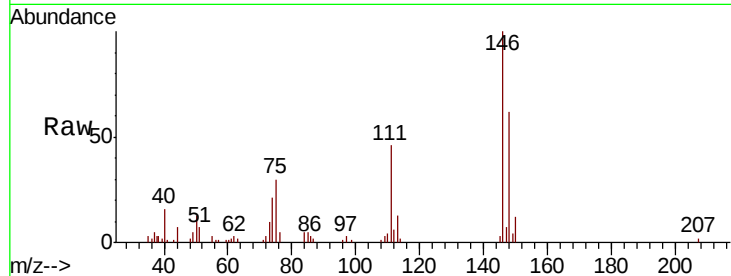
Tot Ion:146 Resp: 30866

Ion Ratio Lower Upper

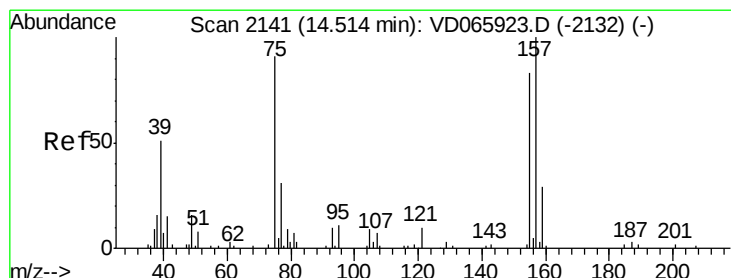
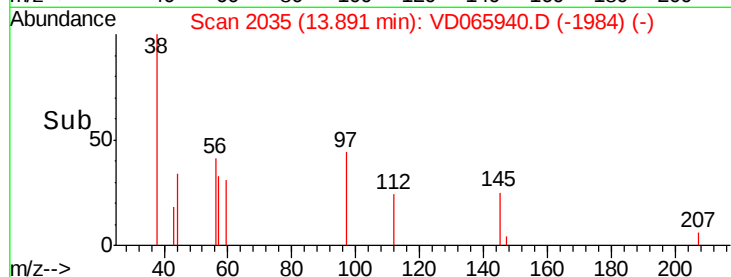
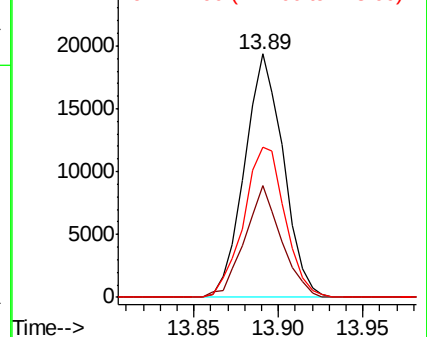
146 100

111 43.5 19.7 59.0

148 65.9 32.5 97.5



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.862 ug/l

RT: 14.51 min Scan# 2141

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

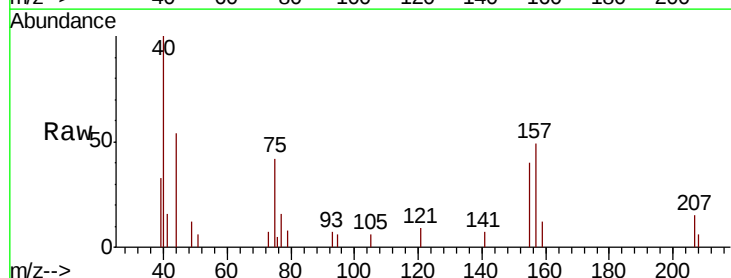
Tgt Ion: 75 Resp: 2152

Ion Ratio Lower Upper

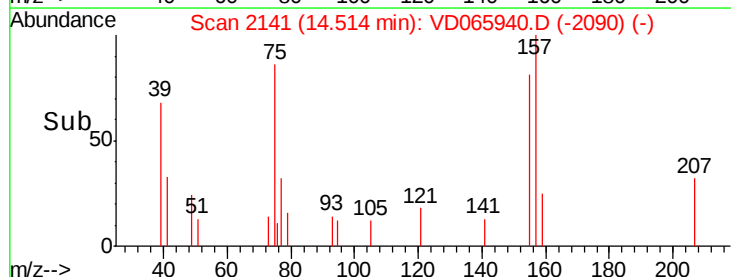
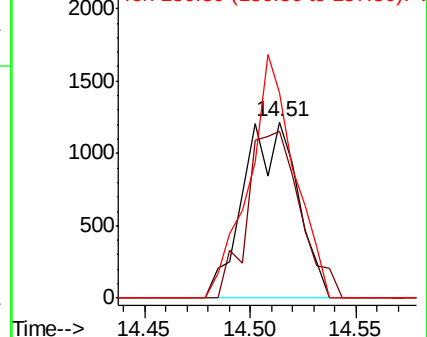
75 100

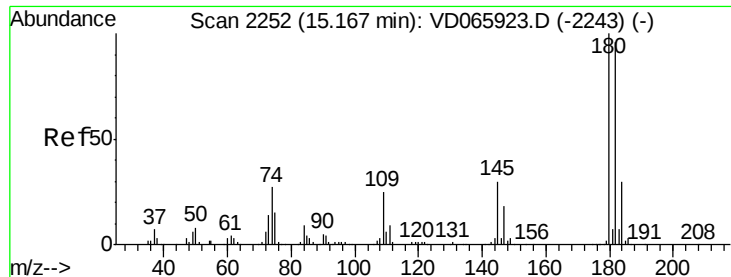
155 93.4 45.3 135.8

157 117.3 56.9 170.6



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V

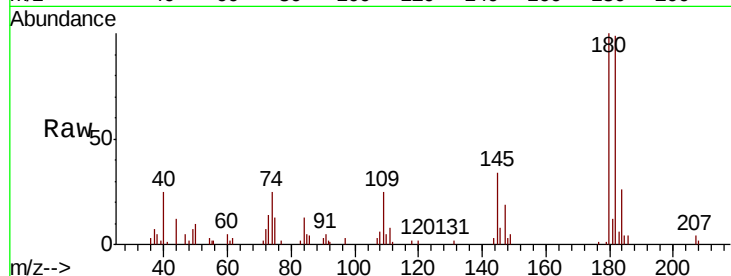




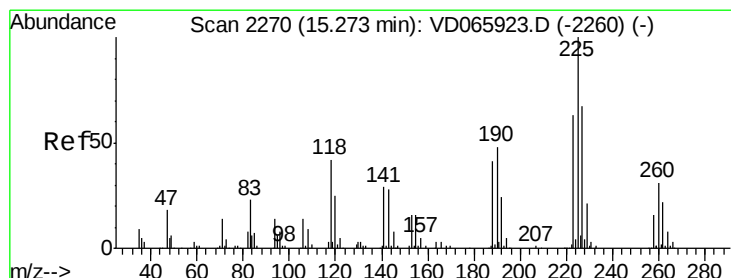
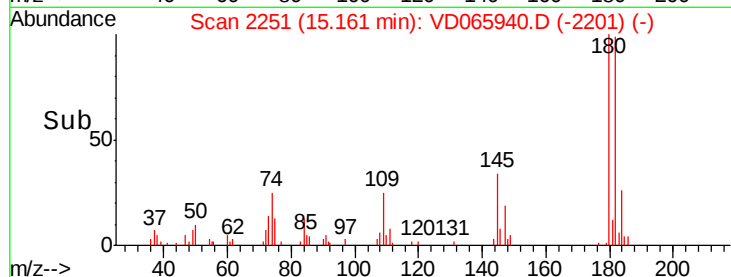
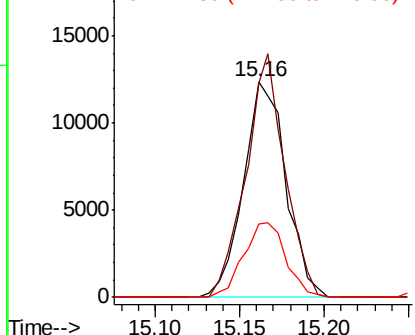
#93
 1,2,4-Trichlorobenzene
 Concen: 3.825 ug/l
 RT: 15.16 min Scan# 2251
 Delta R.T. -0.01 min
 Lab File: VD065940.D
 Acq: 08 Jul 2020 15:10

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

Tot Ion:180 Resp: 21705
 Ion Ratio Lower Upper
 180 100
 182 103.1 48.5 145.6
 145 34.2 15.0 45.1

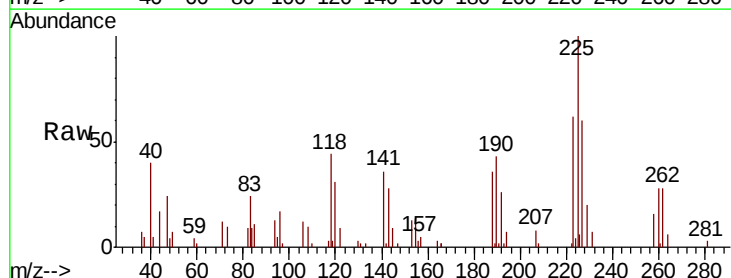


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

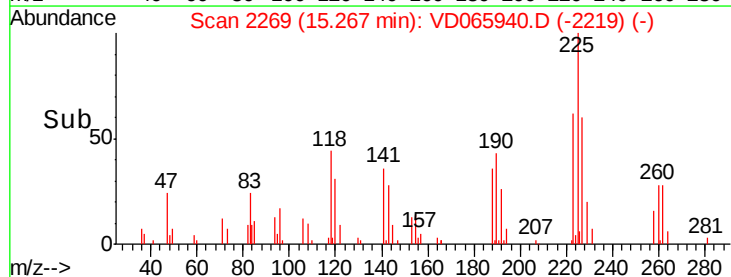
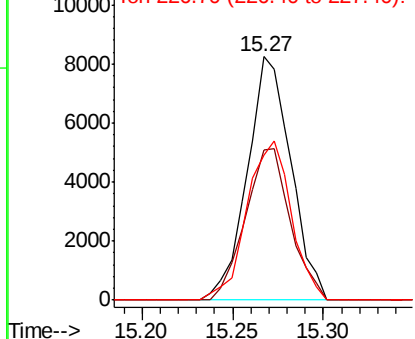


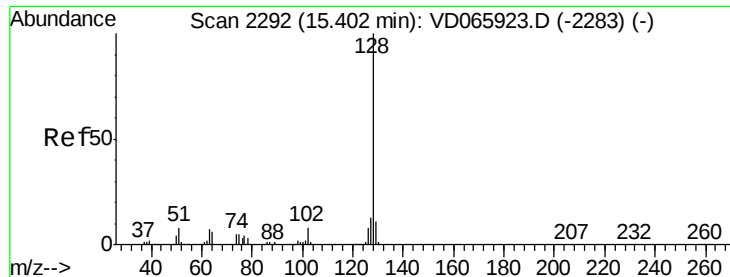
#94
 Hexachlorobutadiene
 Concen: 4.016 ug/l
 RT: 15.27 min Scan# 2269
 Delta R.T. -0.01 min
 Lab File: VD065940.D
 Acq: 08 Jul 2020 15:10

Tgt Ion:225 Resp: 13784
 Ion Ratio Lower Upper
 225 100
 223 64.2 31.1 93.2
 227 66.7 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: 3.432 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2020DL

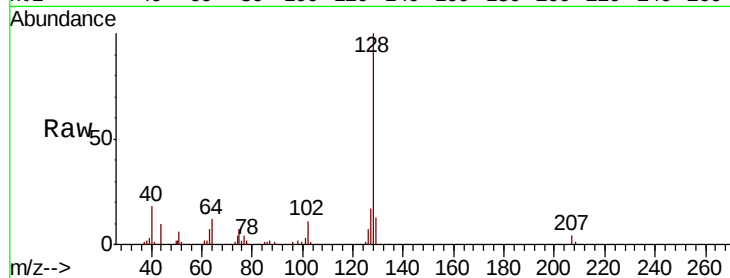
Tot Ion:128 Resp: 32661

Ion Ratio Lower Upper

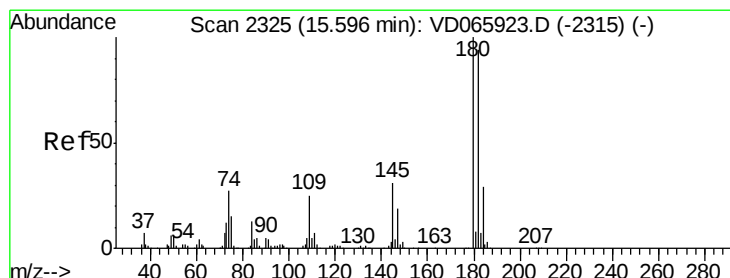
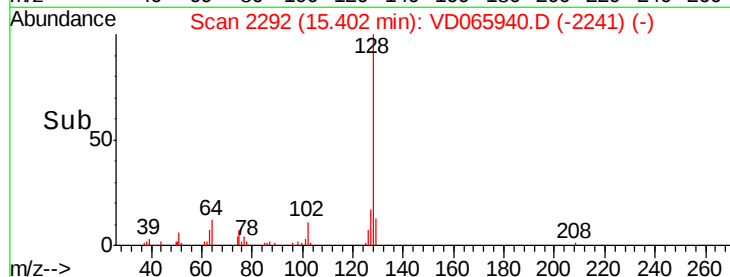
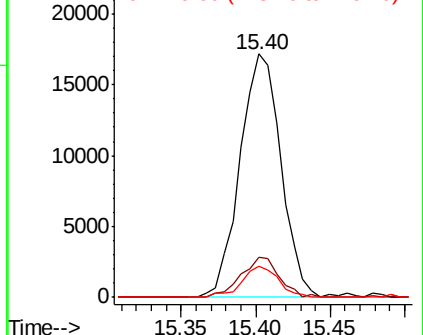
128 100

127 15.4 10.8 16.2

129 11.4 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 4.023 ug/l

RT: 15.60 min Scan# 2325

Delta R.T. 0.00 min

Lab File: VD065940.D

Acq: 08 Jul 2020 15:10

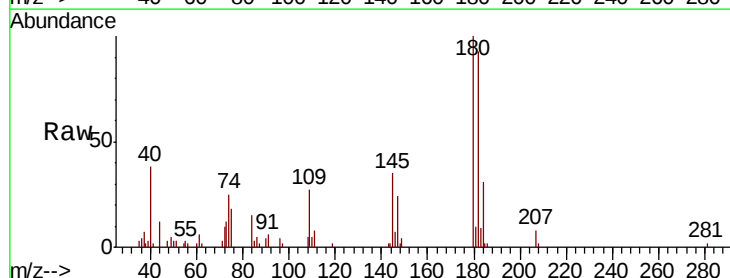
Tgt Ion:180 Resp: 19691

Ion Ratio Lower Upper

180 100

182 93.6 47.6 142.8

145 29.3 16.1 48.2



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

